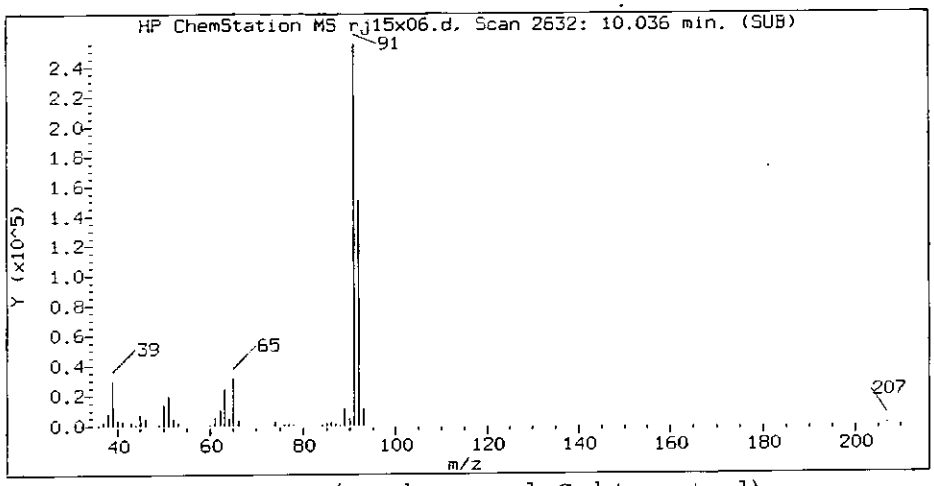
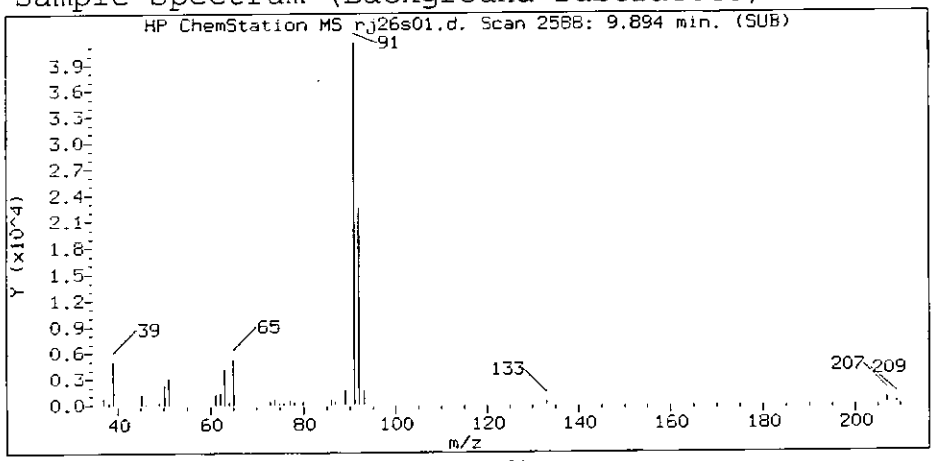
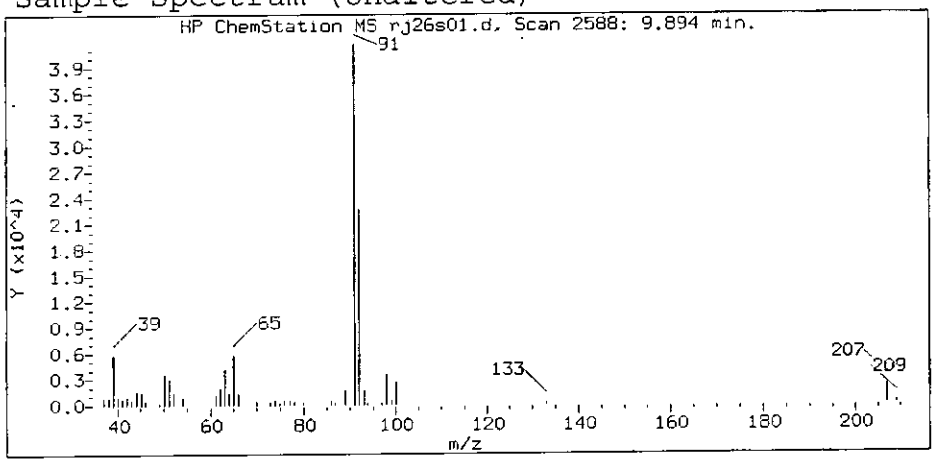
Reference Standard Spectrum for Toluene

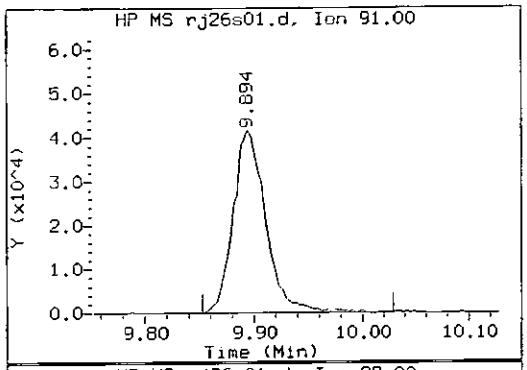


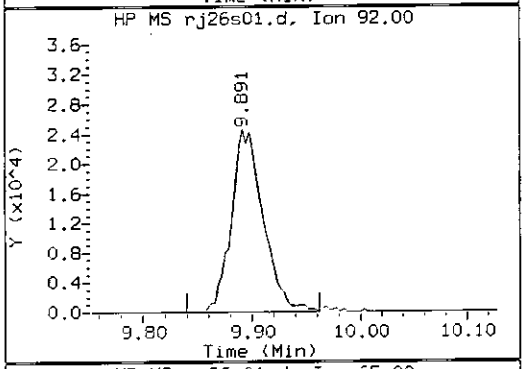
Sample Spectrum (Background Subtracted)

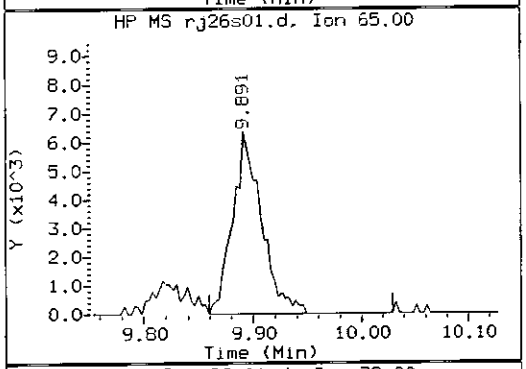


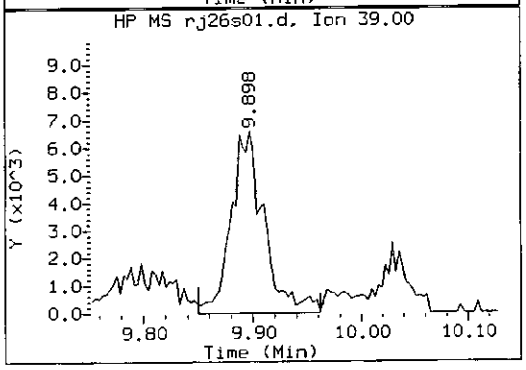
Sample Spectrum (Unaltered)











Data File: /chem/HP07566.i/06jan26b.b/rj26s01.d
Injection date and time: 26-JAN-2006 19:07

Instrument ID: HP07566.i
Analyst ID: JML01693

Method used: /chem/HP07566.i/06jan26b.b/ROLM32SL.m Sublist used: 7157
Calibration date and time: 26-JAN-2006 18:08
Date, time and analyst ID of latest file update: 26-Jan-2006 22:08 jml01693

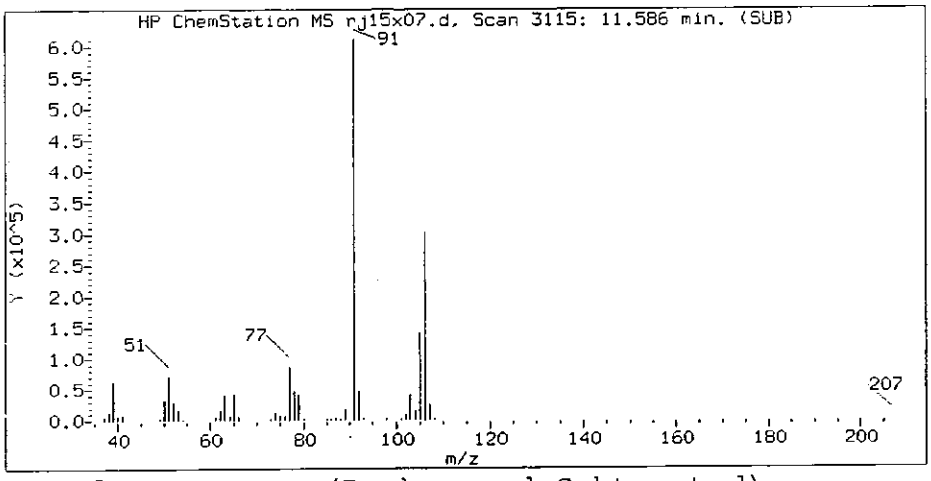
Sample Name: 6005-

Lab Sample ID: 4692565

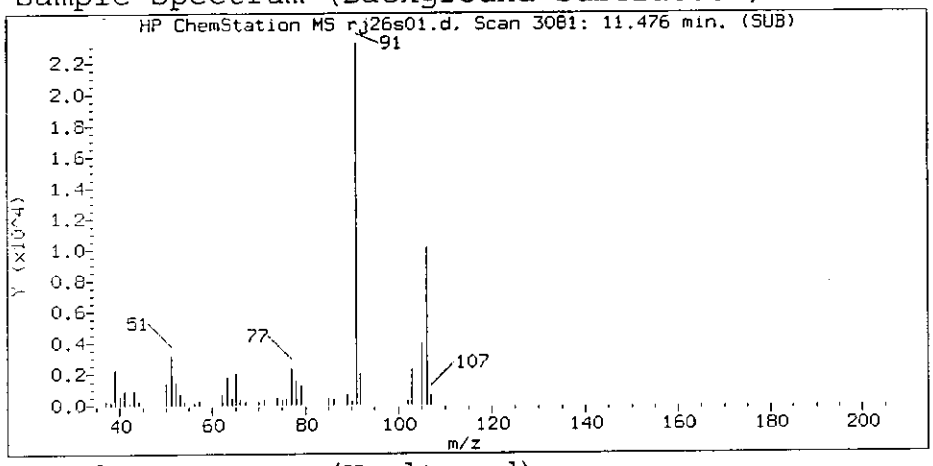
Compound Number	: 80
Compound Name	: Toluene
Scan Number	: 2588
Retention Time (minutes)	: 9.894
Quant Ion	: 91.0
Area (flag)	: 87930
Concentration (ug/Kg)	: 4.8295

0062

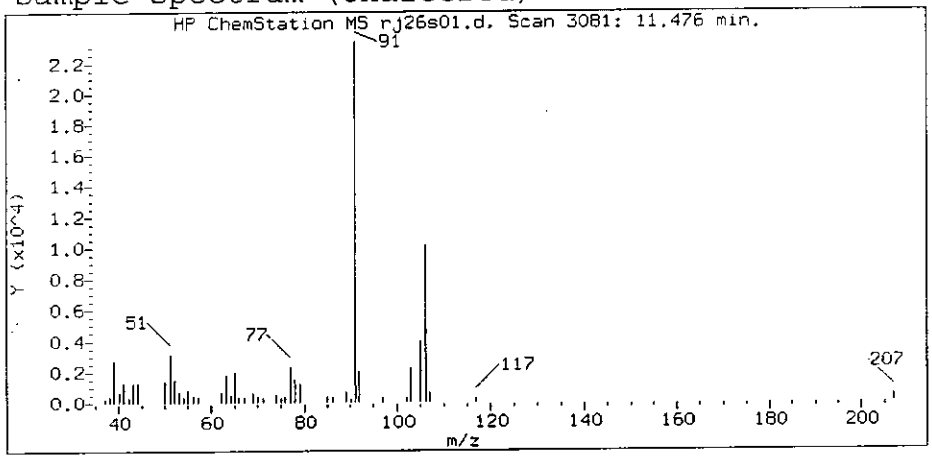
Reference Standard Spectrum for m+p-Xylene

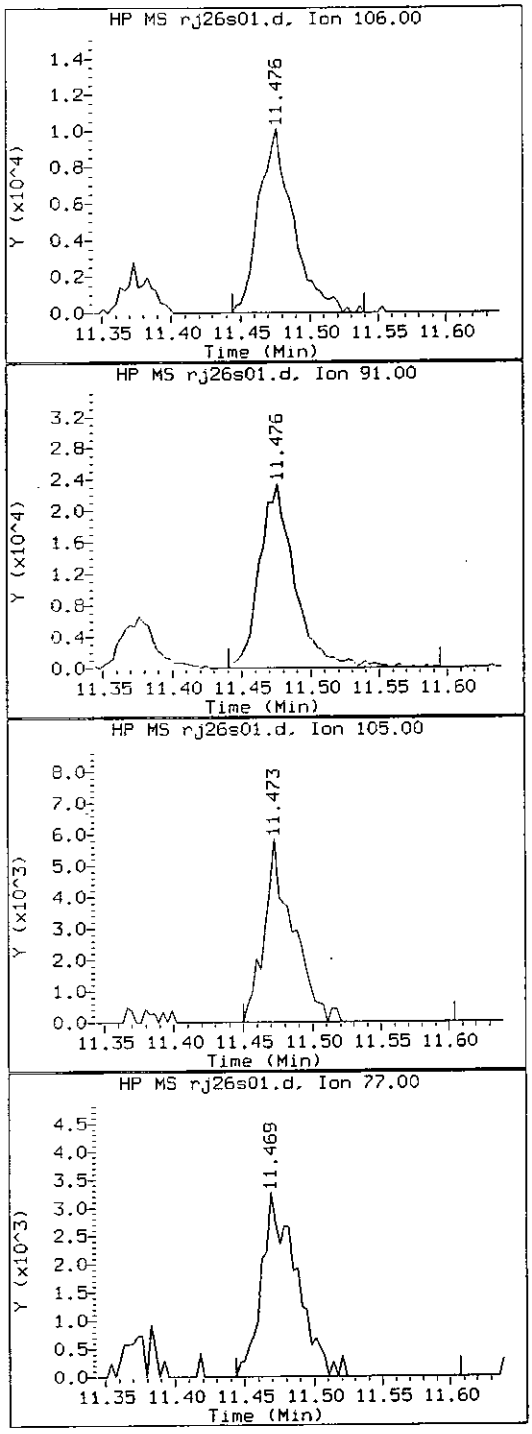


Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)





Data File: /chem/HP07566.i/06jan26b.b/rj26s01.d
Injection date and time: 26-JAN-2006 19:07

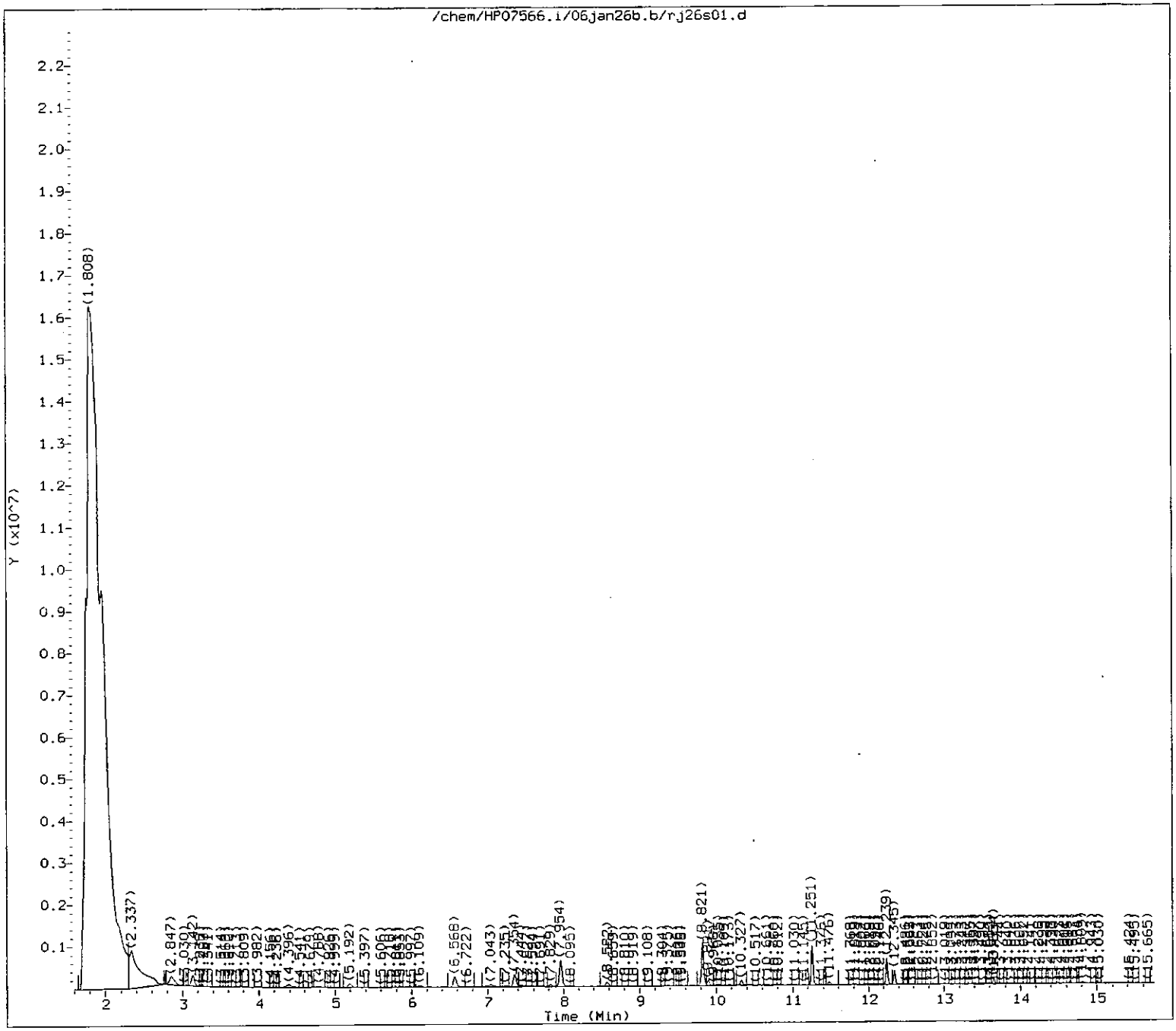
Instrument ID: HP07566.i
Analyst ID: JML01693

Method used: /chem/HP07566.i/06jan26b.b/ROLM32SL.m Sublist used: 7157
Calibration date and time: 26-JAN-2006 18:08
Date, time and analyst ID of latest file update: 26-Jan-2006 22:08 jml01693

Sample Name: 6005-

Lab Sample ID: 4692565

Compound Number	: 95
Compound Name	: m+p-Xylene
Scan Number	: 3081
Retention Time (minutes)	: 11.476
Quant Ion	: 106.0
Area (flag)	: 17410
Concentration (ug/Kg)	: 2.2575



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP07566.i/06jan26b.b/rj26s01.d Instrument ID: HP07566.i
Injection date and time: 26-JAN-2006 19:07 Analyst ID: JML01693

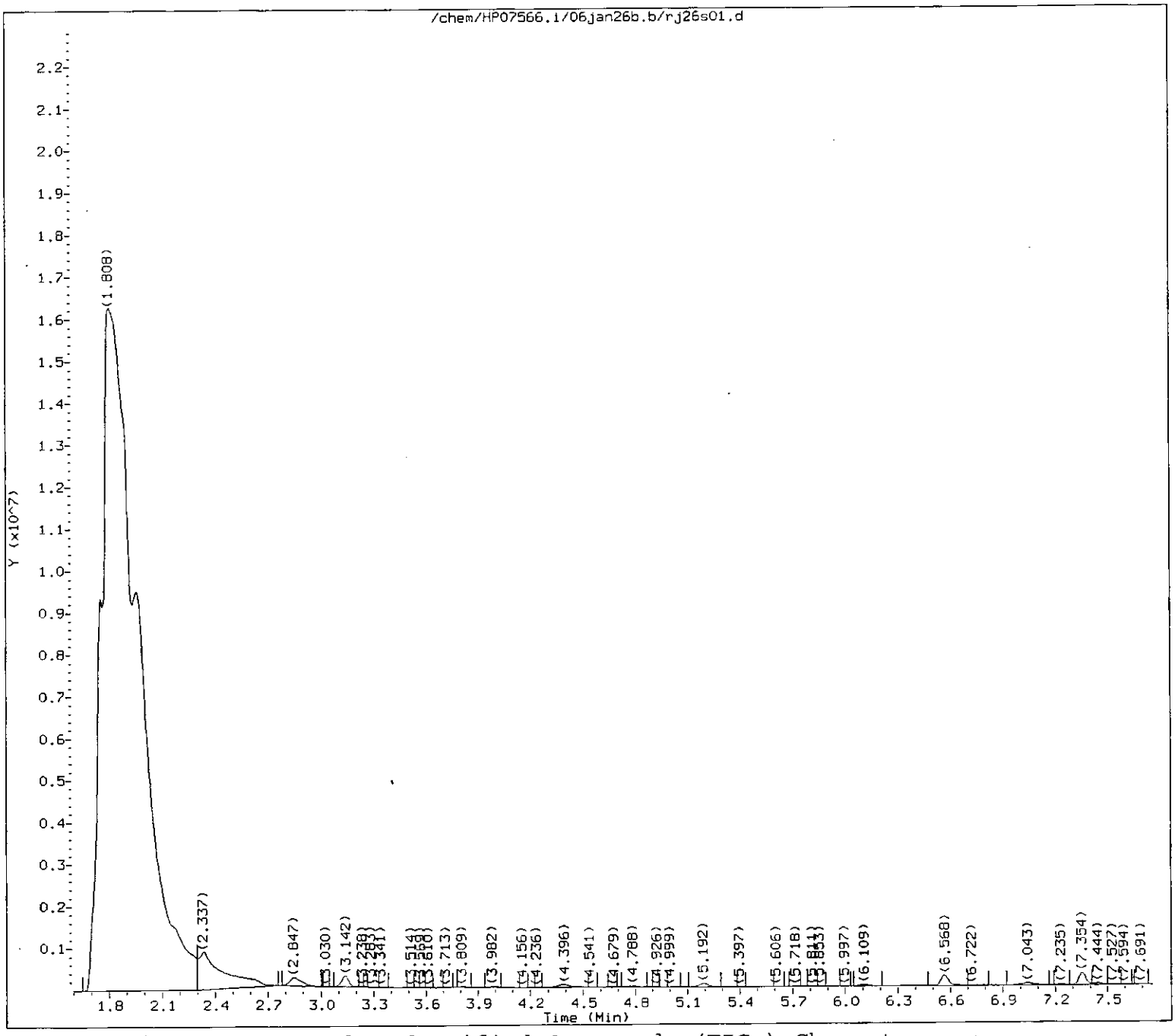
Date, time and analyst ID of latest file update: 26-Jan-2006 21:58 jml01693

Sample Name: 6005- Lab Sample ID: 4692565

Chromatogram Start Time (min.): 1.596
Chromatogram End Time (min.): 15.748

A 8864

JMS 1/26/06



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP07566.i/06jan26b.b/rj26s01.d Instrument ID: HP07566.i
Injection date and time: 26-JAN-2006 19:07 Analyst ID: JML01693

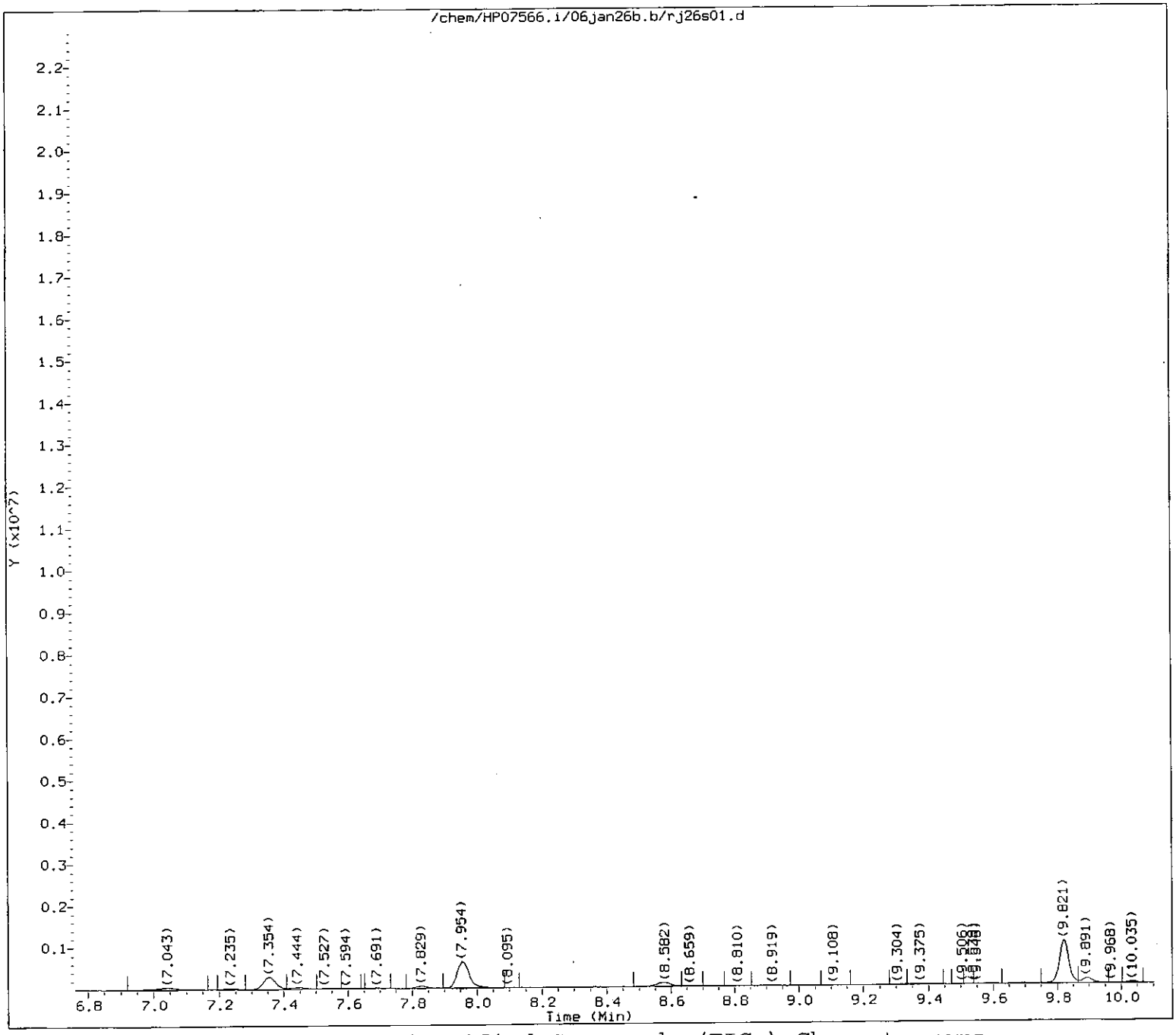
Date, time and analyst ID of latest file update: 26-Jan-2006 21:58 jml01693

Sample Name: 6005- Lab Sample ID: 4692565

Internal Standard referenced: Bromochloromethane at 6.568 minutes
Chromatogram Start Time (min.): 1.596
Chromatogram End Time (min.): 7.261

0065

JMJ 1/26/06



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP07566.i/06jan26b.b/rj26s01.d Instrument ID: HP07566.i
Injection date and time: 26-JAN-2006 19:07 Analyst ID: JML01693

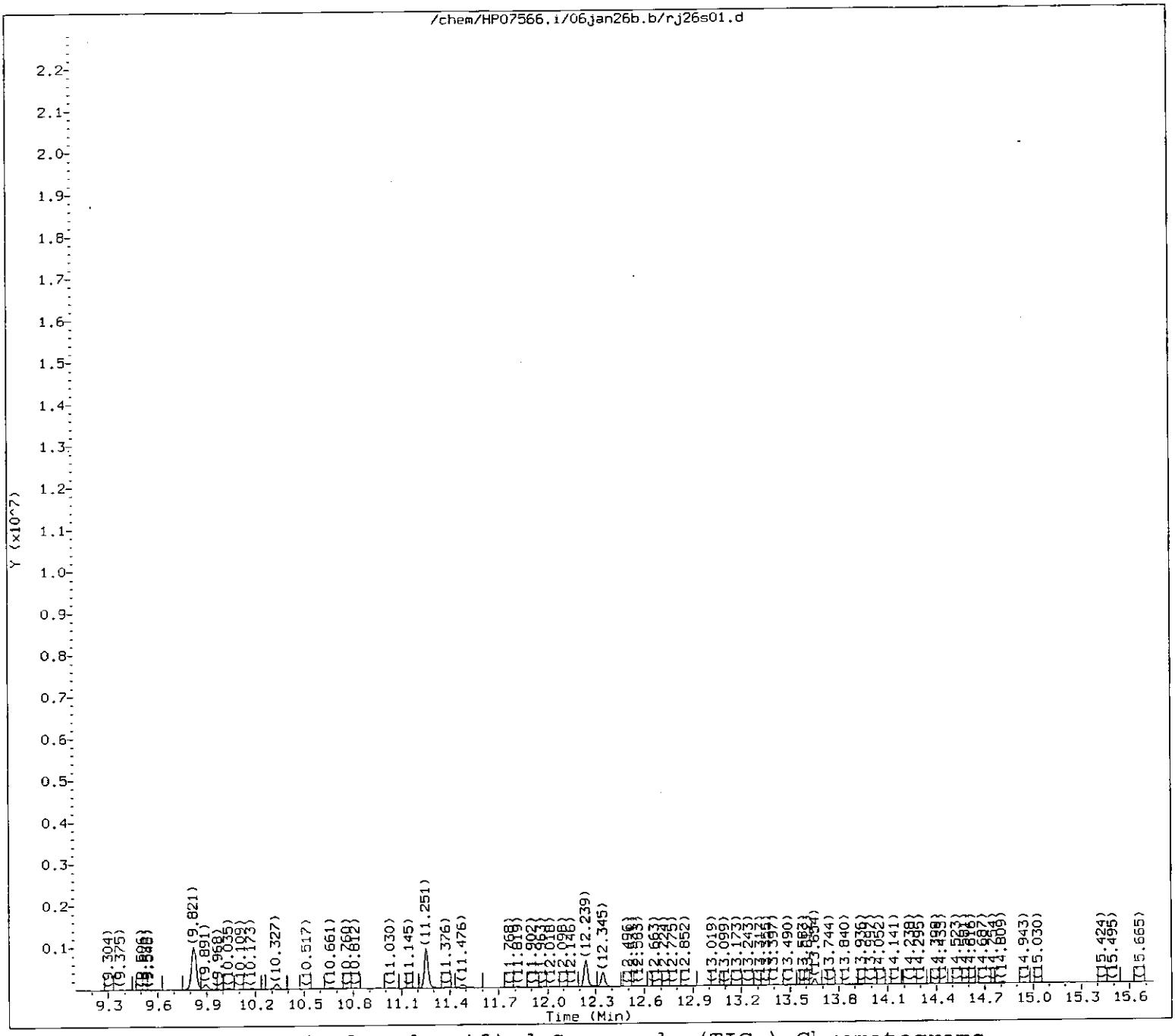
Date, time and analyst ID of latest file update: 26-Jan-2006 21:58 jml01693

Sample Name: 6005- Lab Sample ID: 4692565

Internal Standard referenced: 1,4-Difluorobenzene at 7.954 minutes
Chromatogram Start Time (min.): 7.261
Chromatogram End Time (min.): 9.602

~~8866~~

JMJ 1/26/06



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP07566.i/06jan26b.b/rj26s01.d Instrument ID: HP07566.i
Injection date and time: 26-JAN-2006 19:07 Analyst ID: JML01693

Date, time and analyst ID of latest file update: 26-Jan-2006 21:58 jml01693

Sample Name: 6005- Lab Sample ID: 4692565

Internal Standard referenced: Chlorobenzene-d5 at 11.251 minutes
Chromatogram Start Time (min.): 9.602
Chromatogram End Time (min.): 15.748

0062

TMG 1/26/06

Lancaster Laboratories

Data file : /chem/HP07566.i/06jan26b.b/rj26s01.d
Lab Smp Id: 4692565 Client Smp ID: 6005-
Inj Date : 26-JAN-2006 19:07
Operator : JML01693 Inst ID: HP07566.i
Smp Info : 6005-;4692565;2;0;;
Misc Info : 7157.sub;R060261AA;6.19;;5;;rj26b01;193B;
Comment : Max. number of TICs to report is 31, 12 TICs were found initially.
Method : /chem/HP07566.i/06jan26b.b/ROLM32SL.m
Meth Date : 26-Jan-2006 21:56 jml01693 Quant Type: ISTD
Cal Date : 26-JAN-2006 16:59 Cal File: rj26c01.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 7157.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/Ws) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	5.00000	Purge Volume
Ws	6.19000	Soil Weight

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 43 Bromochloromethane	6.568	820306	50.000
* 58 1,4-Difluorobenzene	7.954	1667318	50.000
* 91 Chlorobenzene-d5	11.251	1680702	50.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ug/L)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
2.337	9212162	561.507109	453.5599	0		0	43
Unknown				CAS #:			
2.847	954908	58.2043191	47.01480	0		0	43

JMB 1/26/06

RT	AREA	CONCENTRATIONS ON-COL(ug/L)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown alkane				CAS #:			
3.142	754104	45.9647393	37.12822	0		0	43
Unknown alkane				CAS #:			
4.396	429172	26.1592395	21.13024	0		0	43
Pentane, 3-methyl-				CAS #: 96-14-0			
4.788	143803	8.76519730	7.0801	86	NIST98.1	112492	43
Hexane				CAS #: 110-54-3			
5.192	306527	18.6836543	15.09180	91	NIST98.1	16315	43
Unknown alkane				CAS #:			
6.109	152653	9.30462871	7.5158	0		0	43
Unknown hydrocarbon				CAS #:			
7.043	298135	18.1721712	14.67865	0		0	43(L)
Cyclohexane, methyl-				CAS #: 108-87-2			
8.582	289661	8.68643453	7.0165	90	NIST98.1	14220	58
Unknown siloxane				CAS #:			
10.327	240061	7.14169546	5.7687	0		0	91(ML)
Unknown siloxane				CAS #:			
12.345	607554	18.0743951	14.59967	0		0	91
Unknown siloxane				CAS #:			
13.654	218460	6.49906660	5.2496	0		0	91

QC Flag Legend

M - Compound response manually integrated.
L - Operator selected an alternate library search match.

TMal 1/26/06

8869

Data File: /chem/HP07566.i/06jan26b.b/rj26s01.d

Date : 26-JAN-2006 19:07

Client ID: 6005-

Instrument: HP07566.i

Sample Info: 6005-;4692565;2;0;;

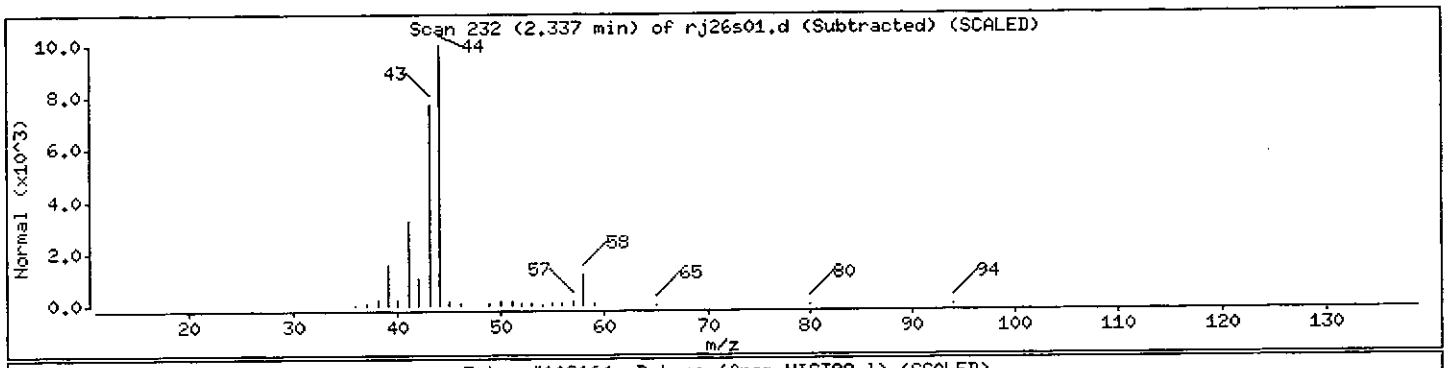
Operator: JML01693

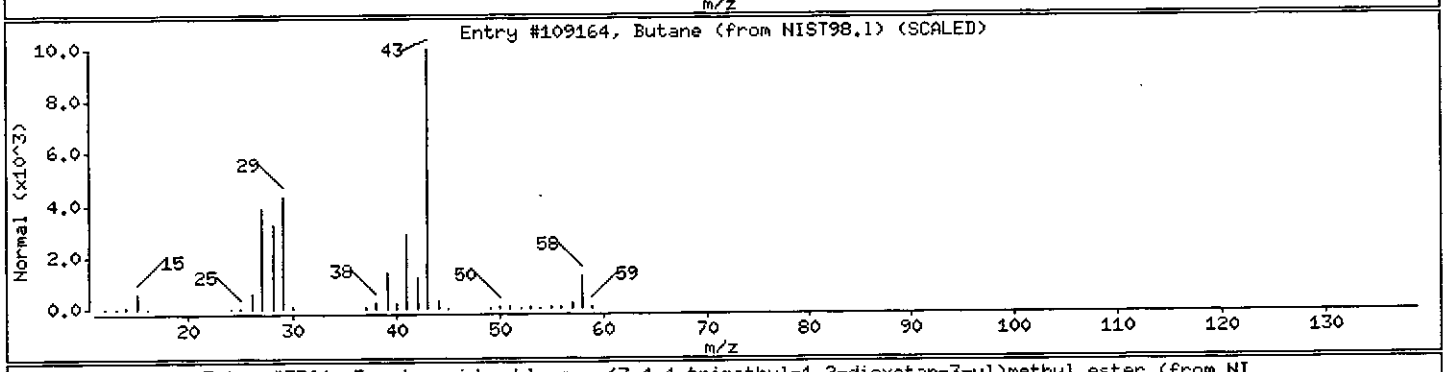
Column phase: DB-624

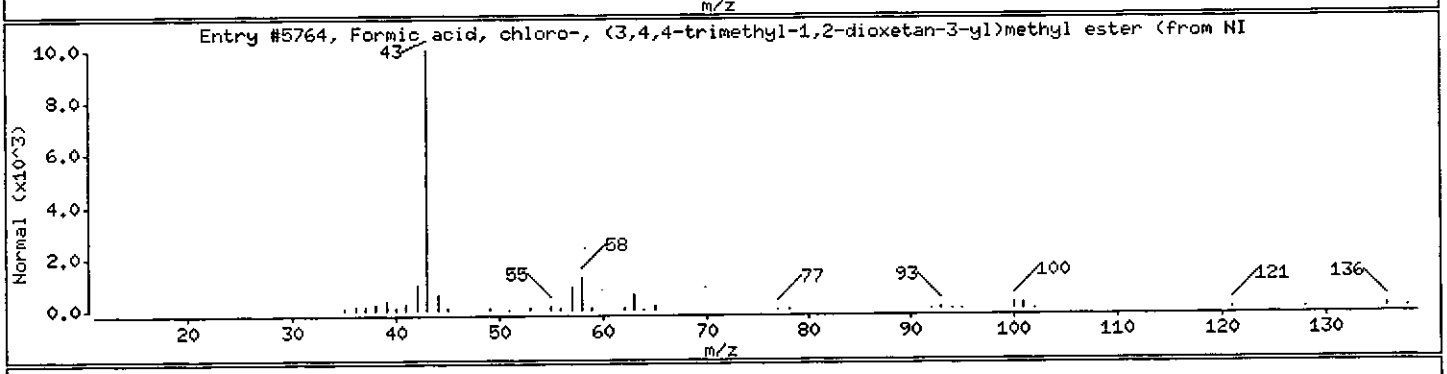
Column diameter: 0.25

Review Code:

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Butane	106-97-8	NIST98.1	109164	22	C4H10	58
Formic acid, chloro-, (3,4,4-trimethyl-1	107323-92-2	NIST98.1	5764	10	C7H11ClO4	194







0070

Data File: /chem/HP07566.i/06jan26b.b/rj26s01.d

Date : 26-JAN-2006 19:07

Client ID: 6005-

Instrument: HP07566.i

Sample Info: 6005-;4692565;2;0;;

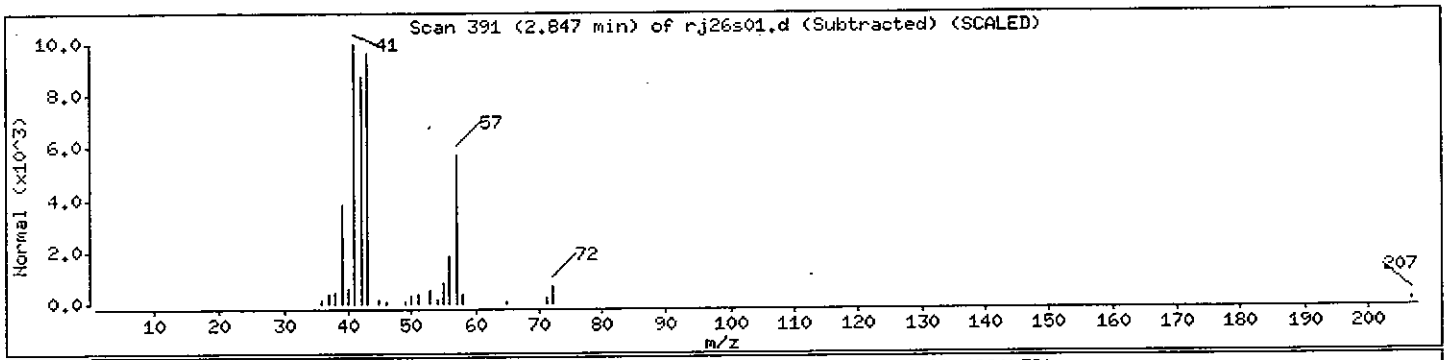
Operator: JHL01693

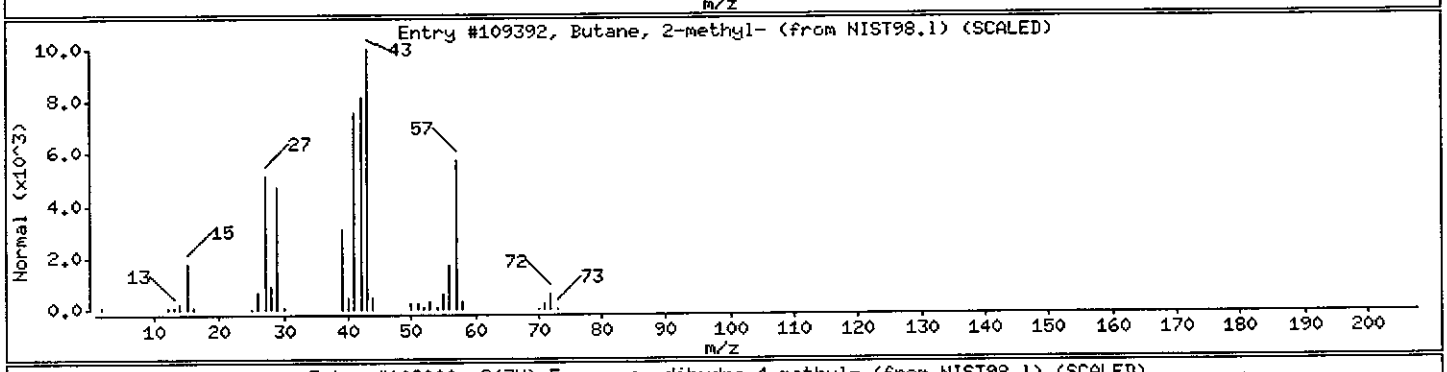
Column phase: DB-624

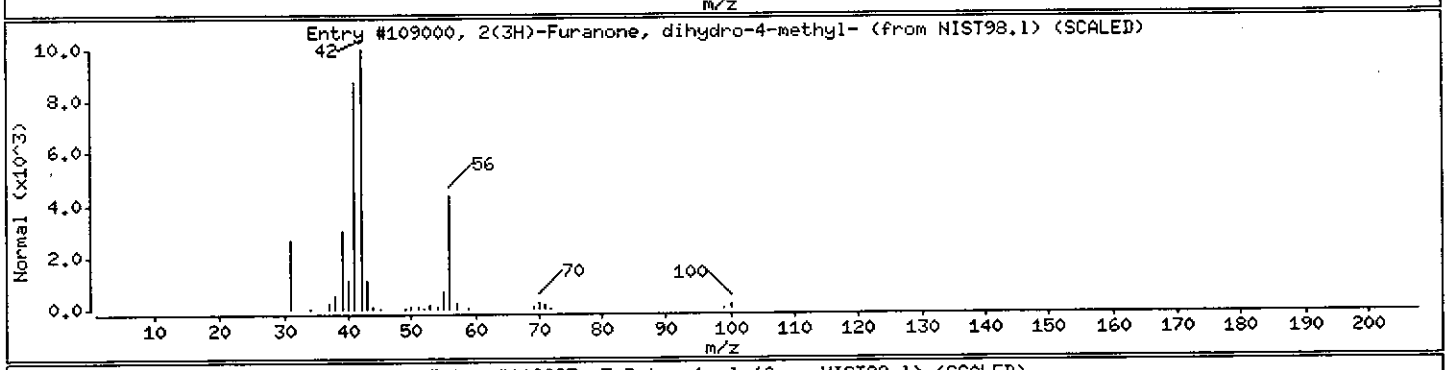
Column diameter: 0.25

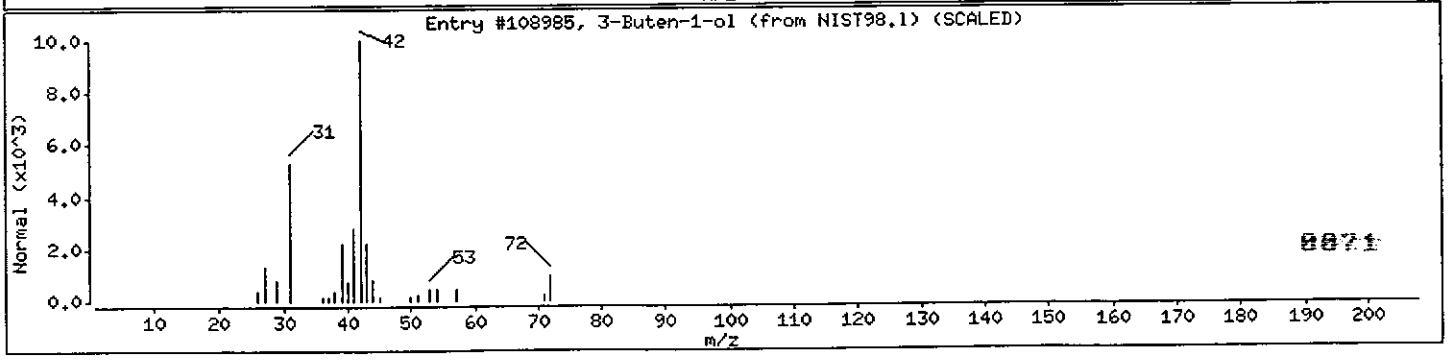
Review Code:

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Butane, 2-methyl-	78-78-4	NIST98.1	109392	64	C5H12	72
2(3H)-Furanone, dihydro-4-methyl-	1679-49-8	NIST98.1	109000	38	C5H8O2	100
3-Buten-1-ol	627-27-0	NIST98.1	108985	38	C4H8O	72









Data File: /chem/HP07566.i/06jan26b.b/rj26s01.d

Date : 26-JAN-2006 19:07

Client ID: 6005-

Instrument: HP07566.i

Sample Info: 6005-;4692565;2;0;;

Operator: JML01693

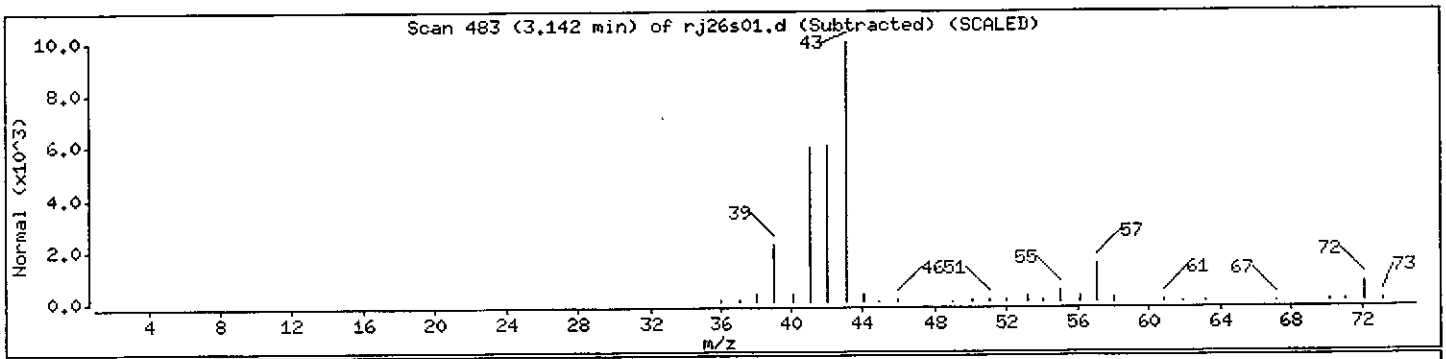
Column phase: DB-624

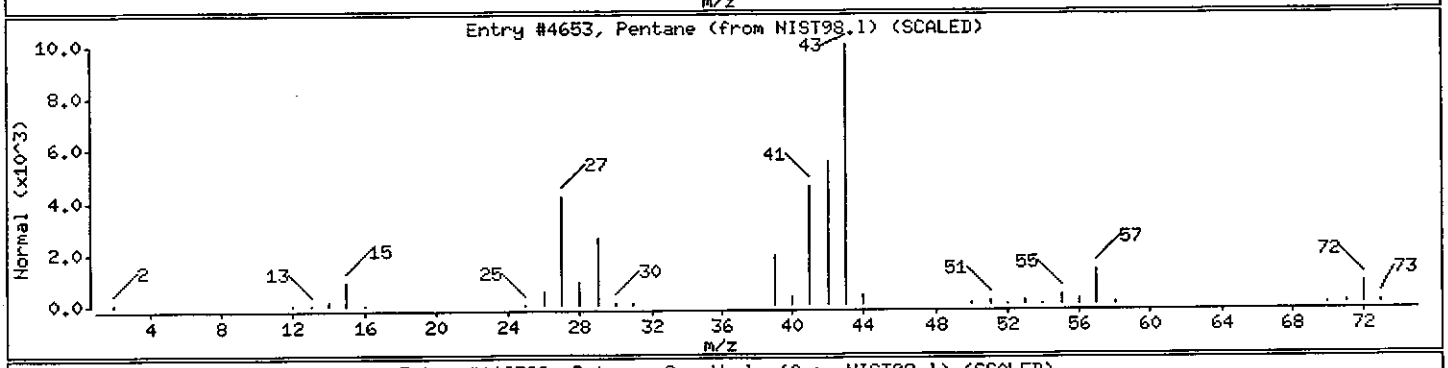
Column diameter: 0.25

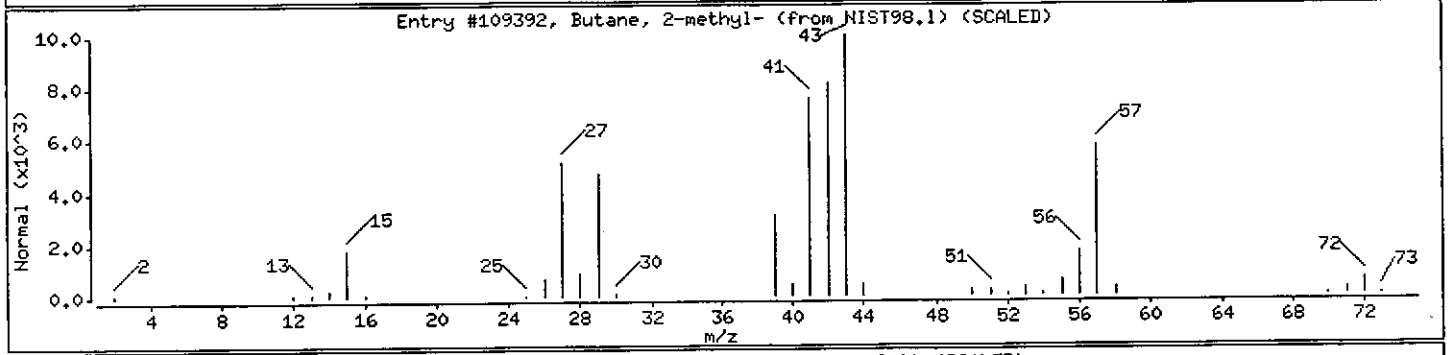
Review Code:

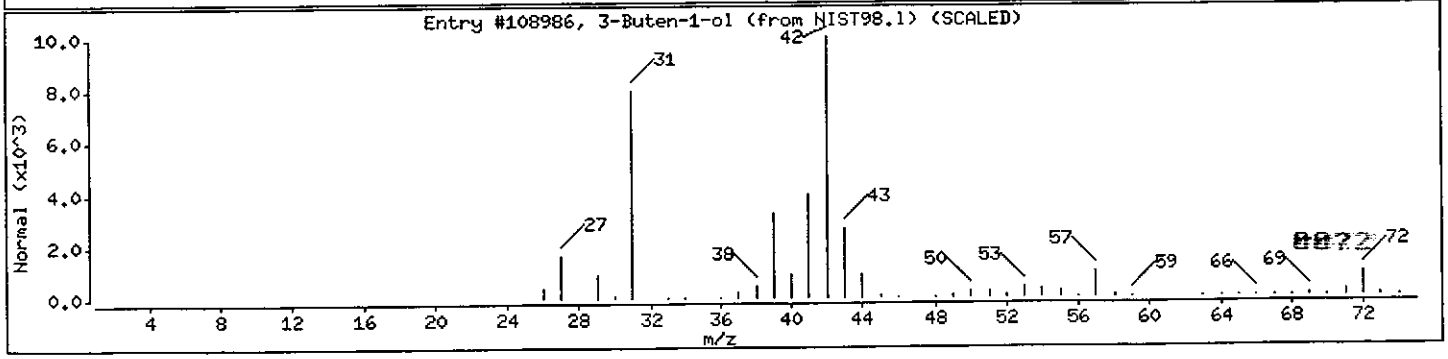
JML 1/26/06

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Pentane	109-66-0	NIST98.1	4653	80	C5H12	72
Butane, 2-methyl-	78-78-4	NIST98.1	109392	64	C5H12	72
3-Buten-1-ol	627-27-0	NIST98.1	108986	28	C4H8O	72









Data File: /chem/HP07566.i/06jan26b.b/rj26s01.d

Date : 26-JAN-2006 19:07

Client ID: 6005-

Instrument: HP07566.i

Sample Info: 6005-;4692565;2;0;;

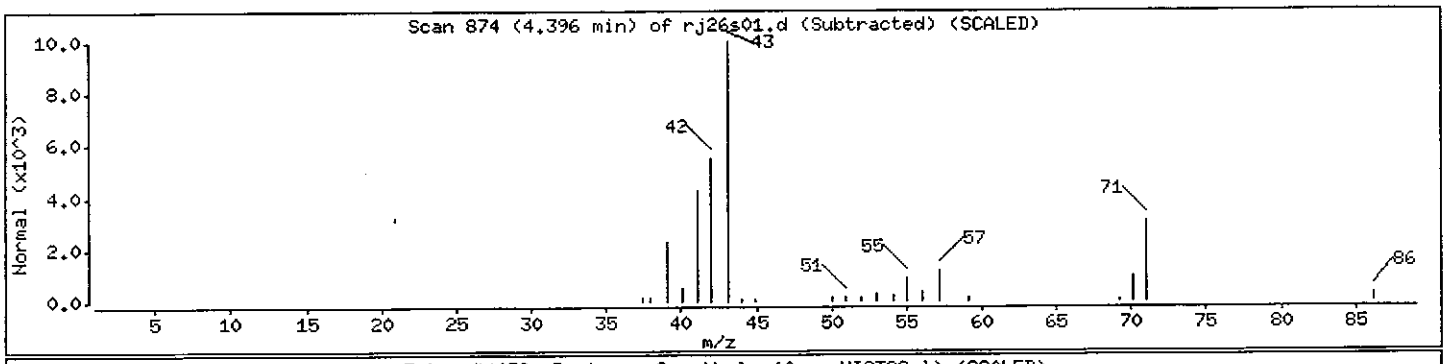
Operator: JML01693

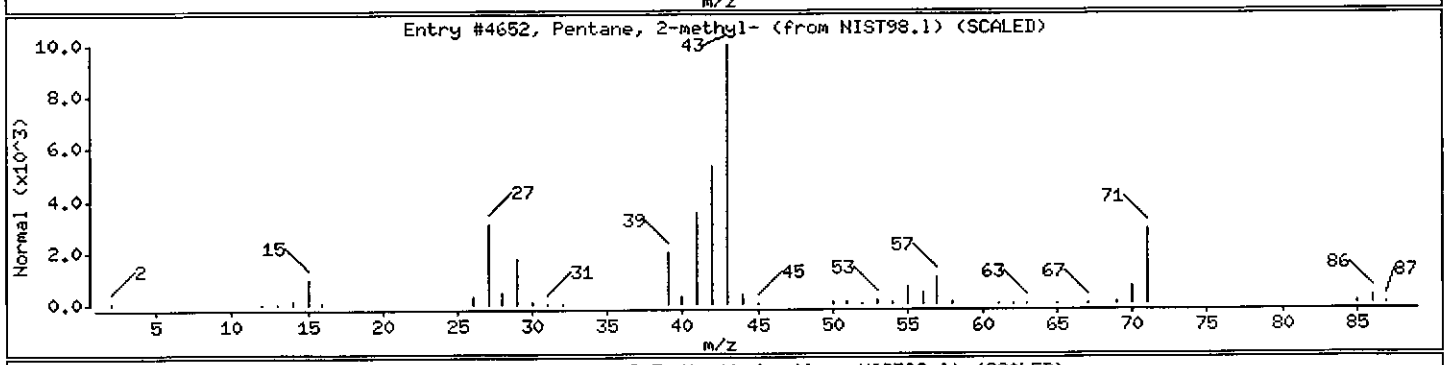
Column phase: DB-624

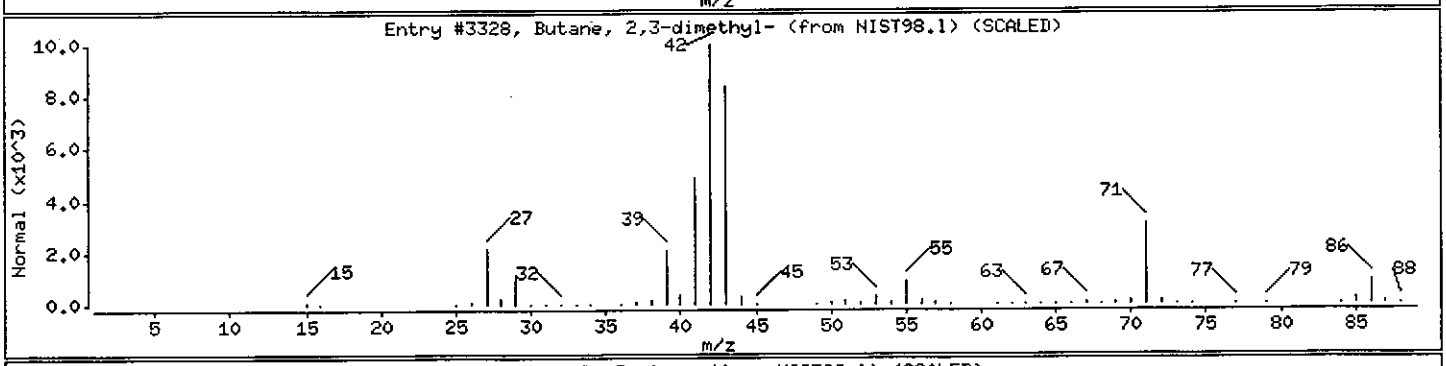
Column diameter: 0.25

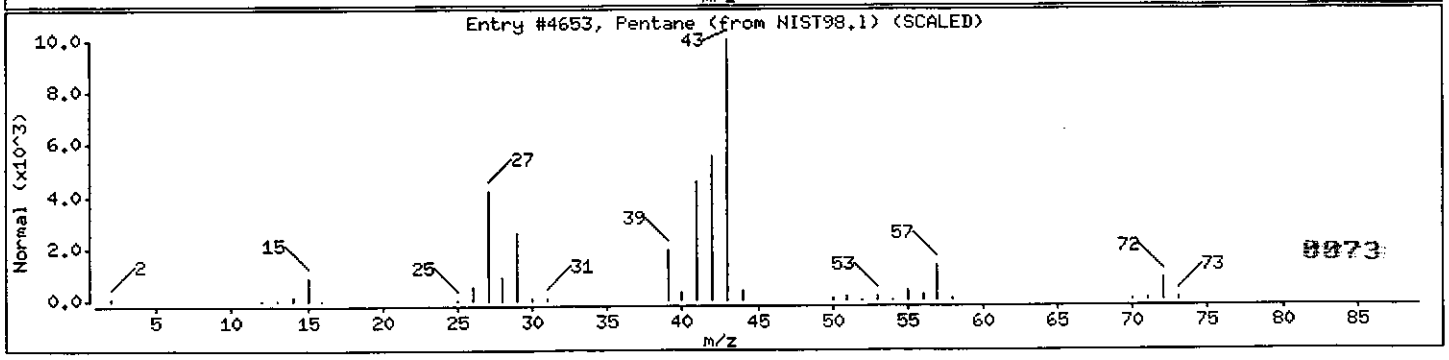
Review Code:

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Pentane, 2-methyl-	107-83-5	NIST98.1	4652	87	C6H14	86
Butane, 2,3-dimethyl-	79-29-8	NIST98.1	3328	50	C6H14	86
Pentane	109-66-0	NIST98.1	4653	36	C5H12	72









0073

Data File: /chem/HP07566.i/06jan26b.b/rj26s01.d

Date : 26-JAN-2006 19:07

Client ID: 6005-

Instrument: HP07566.i

Sample Info: 6005-;4692565;2;0;;

Operator: JML01693

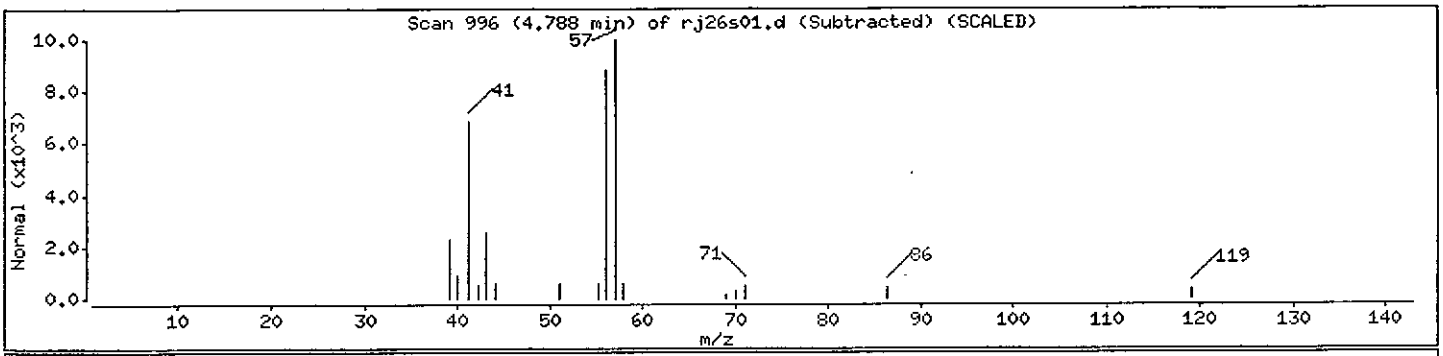
Column phase: DB-624

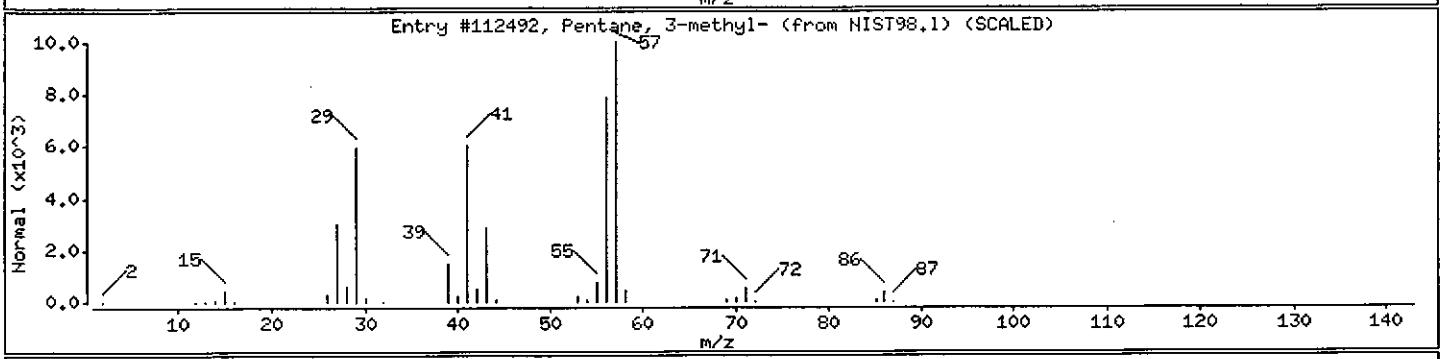
Column diameter: 0.25

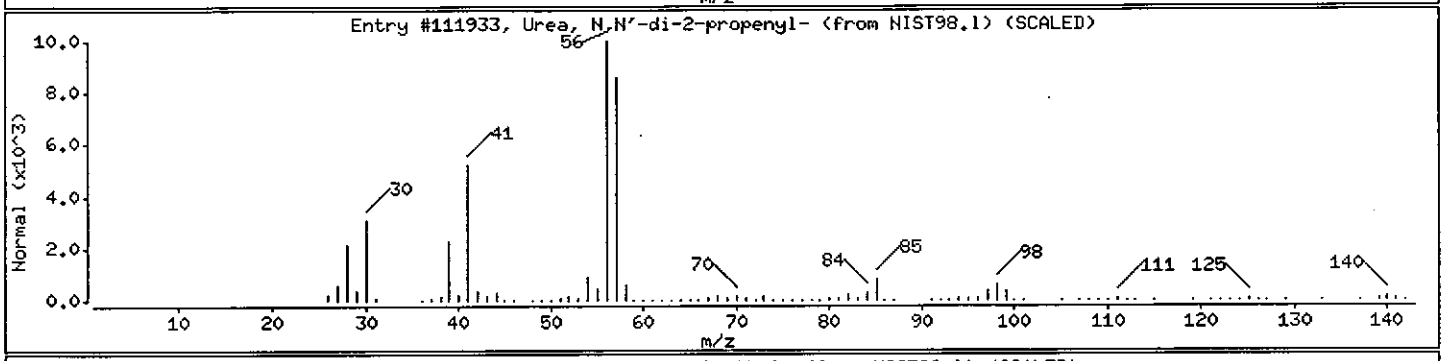
Review Code:

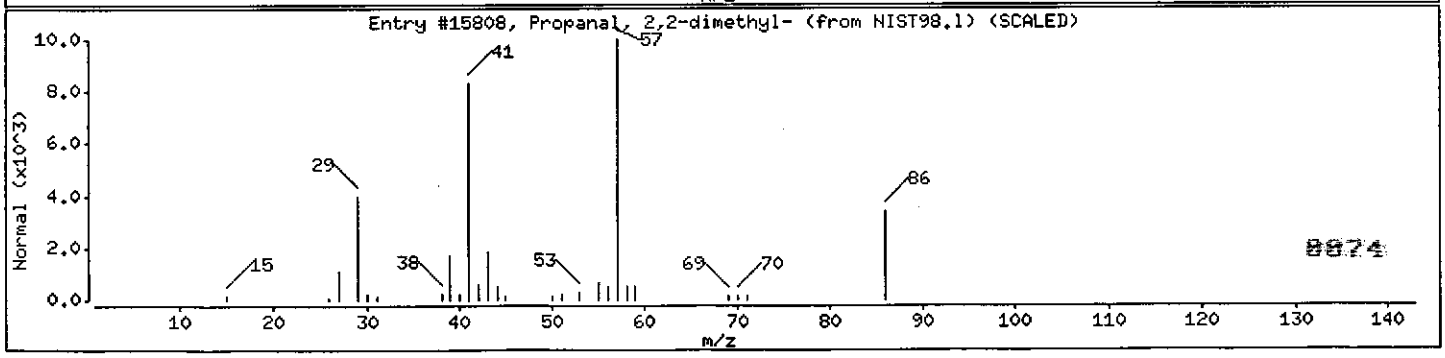
JML 1/26/06

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Pentane, 3-methyl-	96-14-0	NIST98.1	112492	86	C6H14	86
Urea, N,N'-di-2-propenyl-	1801-72-5	NIST98.1	111933	39	C7H12N2O	140
Propanal, 2,2-dimethyl-	630-19-3	NIST98.1	15808	22	C5H10O	86









Data File: /chem/HP07566.i/06jan26b.b/rj26s01.d

Date : 26-JAN-2006 19:07

Client ID: 6005-

Instrument: HP07566.i

Sample Info: 6005-;4692565;2;0;;

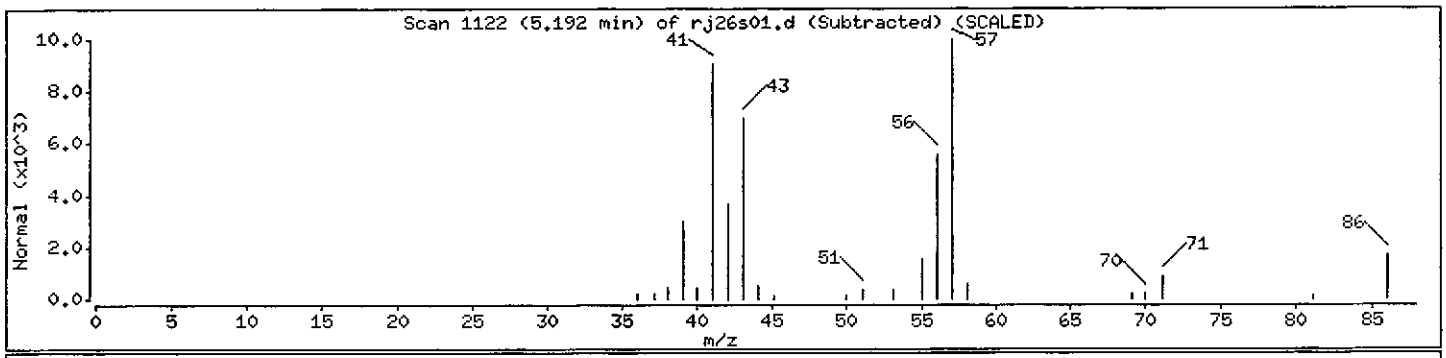
Operator: JML01693

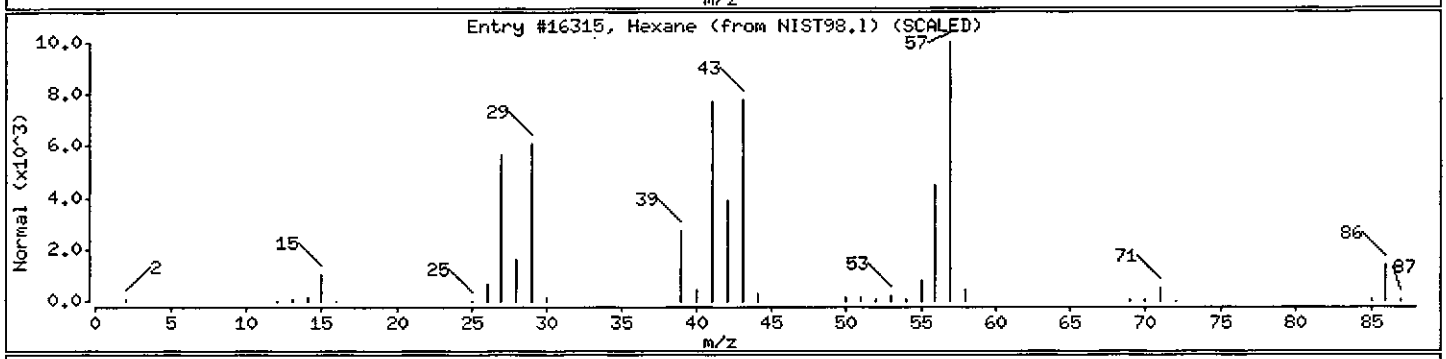
Column phase: DB-624

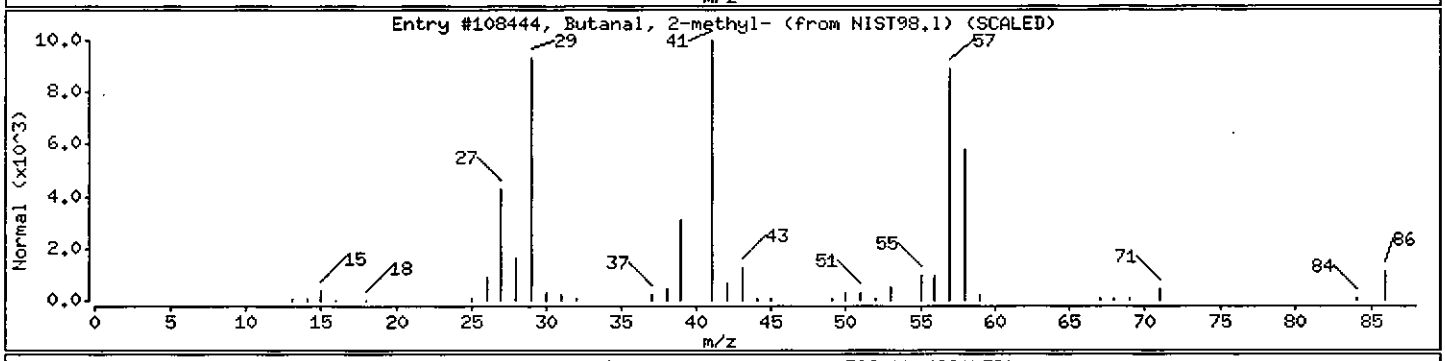
Column diameter: 0.25

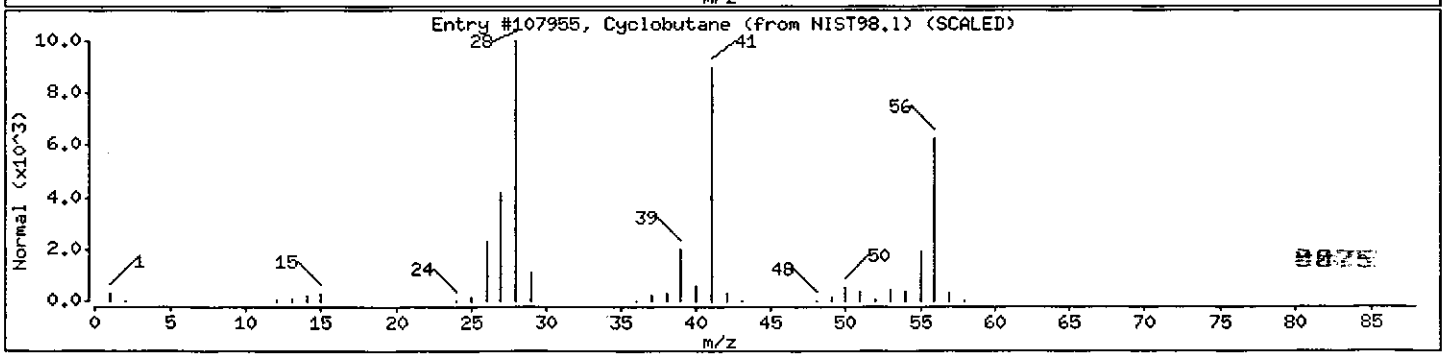
Review Code:

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Hexane	110-54-3	NIST98.1	16315	91	C6H14	86
Butanal, 2-methyl-	96-17-3	NIST98.1	108444	38	C5H10O	86
Cyclobutane	287-23-0	NIST98.1	107955	38	C4H8	56









Data File: /chem/HP07566.i/06jan26b.b/rj26s01.d

Date : 26-JAN-2006 19:07

Client ID: 6005-

Instrument: HP07566.i

Sample Info: 6005-;4692565;2;0;;

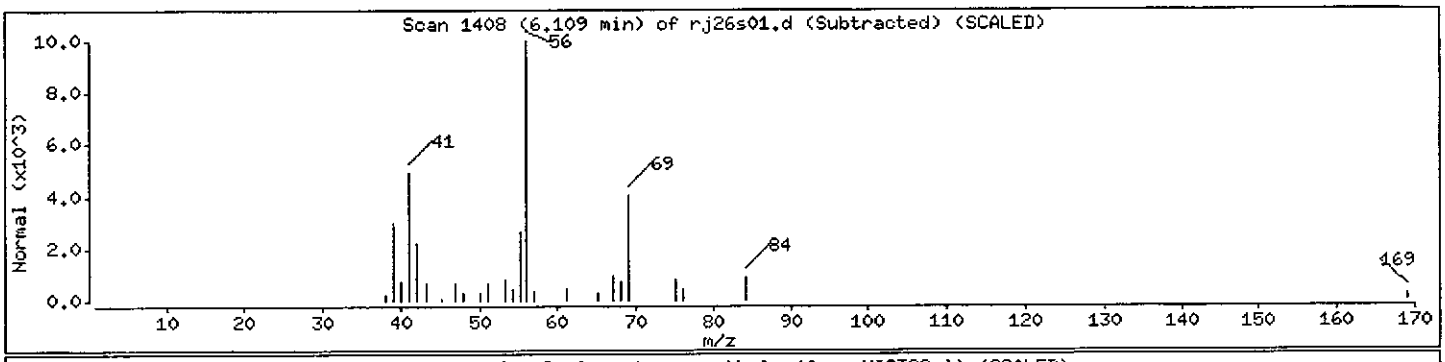
Operator: JHL01693

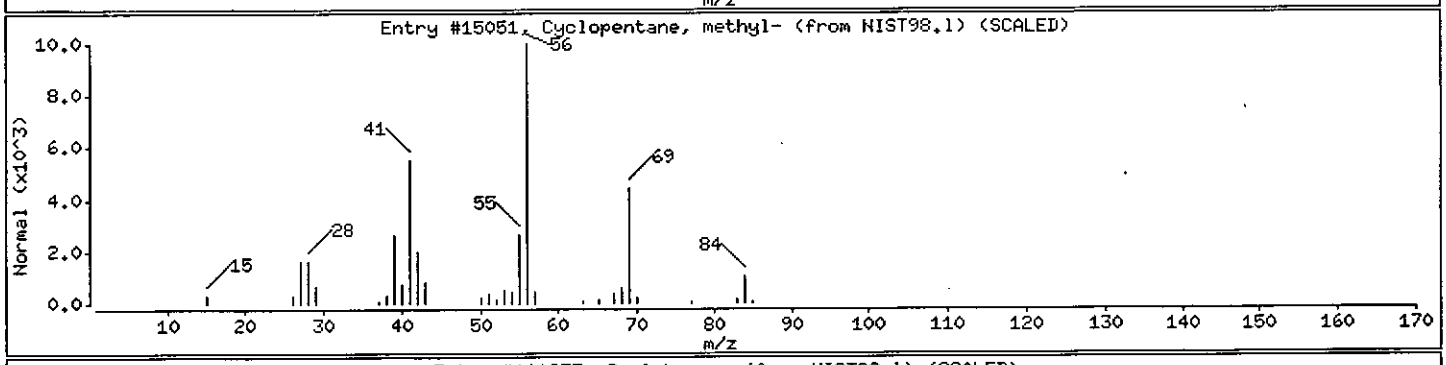
Column phase: DB-624

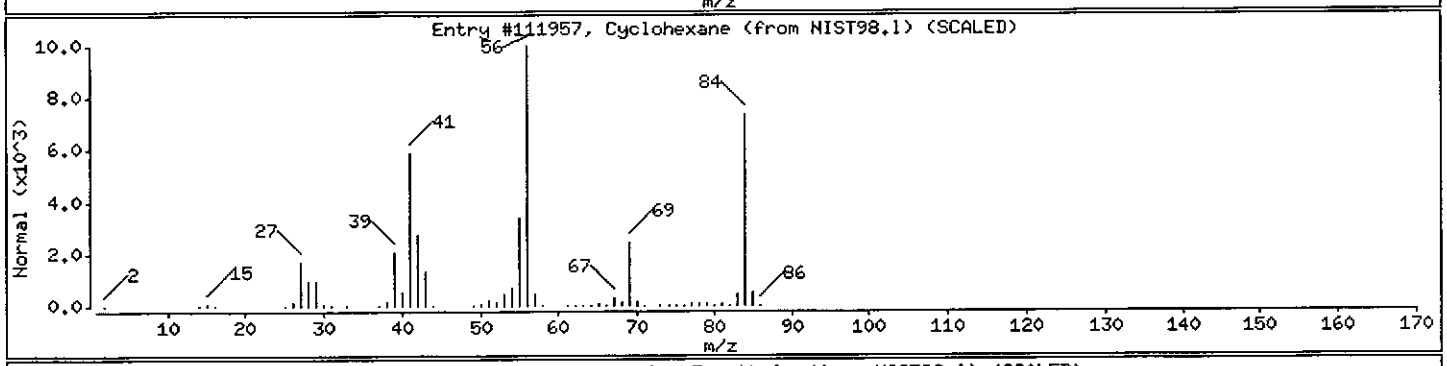
Column diameter: 0.25

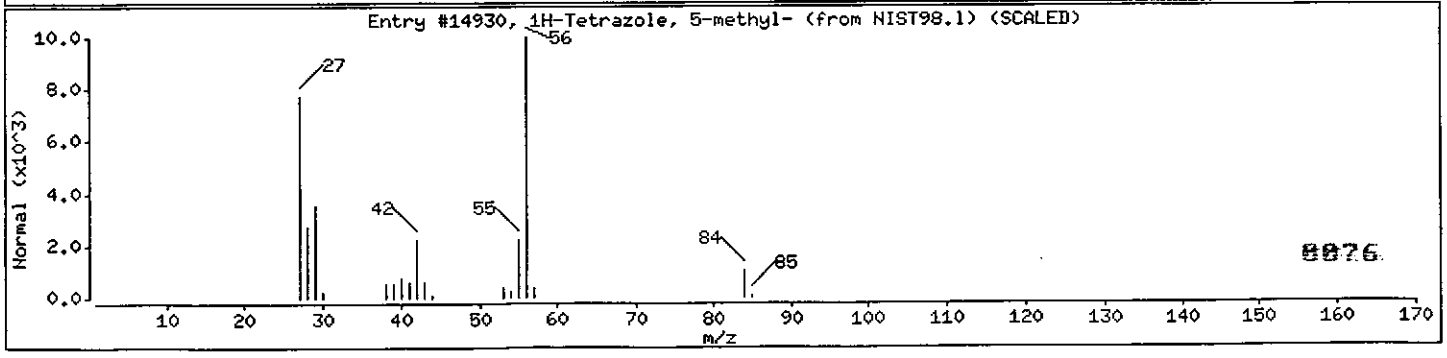
Review Code:

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclopentane, methyl-	96-37-7	NIST98.1	15051	74	C6H12	84
Cyclohexane	110-82-7	NIST98.1	111957	64	C6H12	84
1H-Tetrazole, 5-methyl-	4076-36-2	NIST98.1	14930	53	C2H4N4	84









0076

Data File: /chem/HP07566.i/06jan26b.b/rj26s01.d

Date : 26-JAN-2006 19:07

Client ID: 6005-

Instrument: HP07566.i

Sample Info: 6005-;4692565;2;0;;

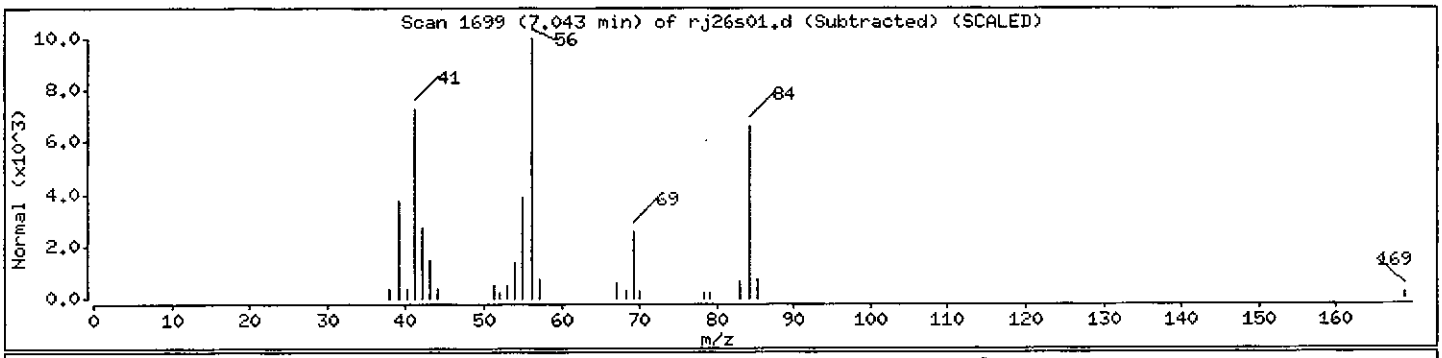
Operator: JML01693

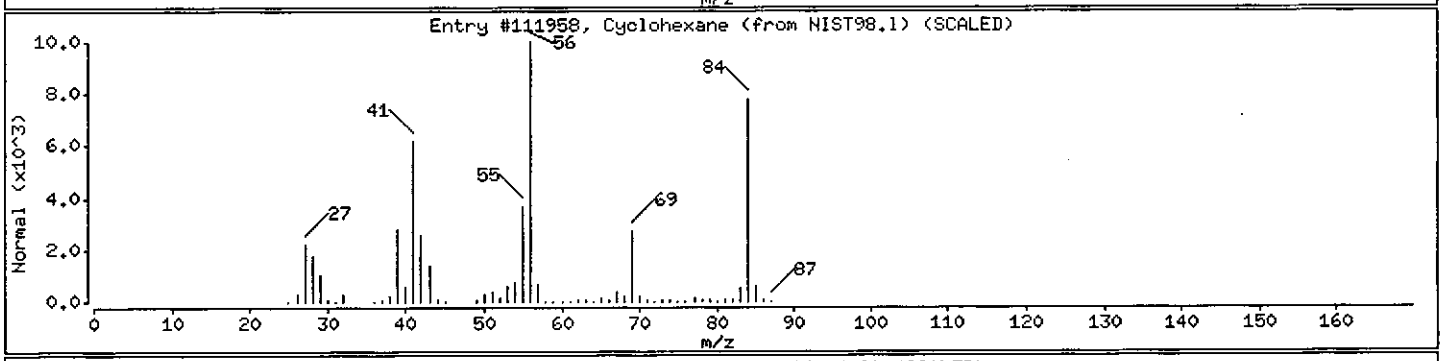
Column phase: DB-624

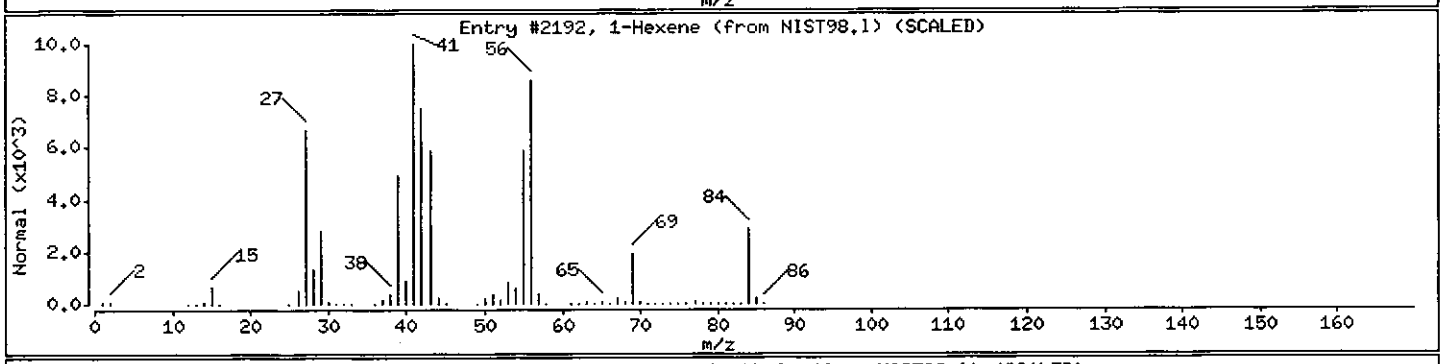
Column diameter: 0.25

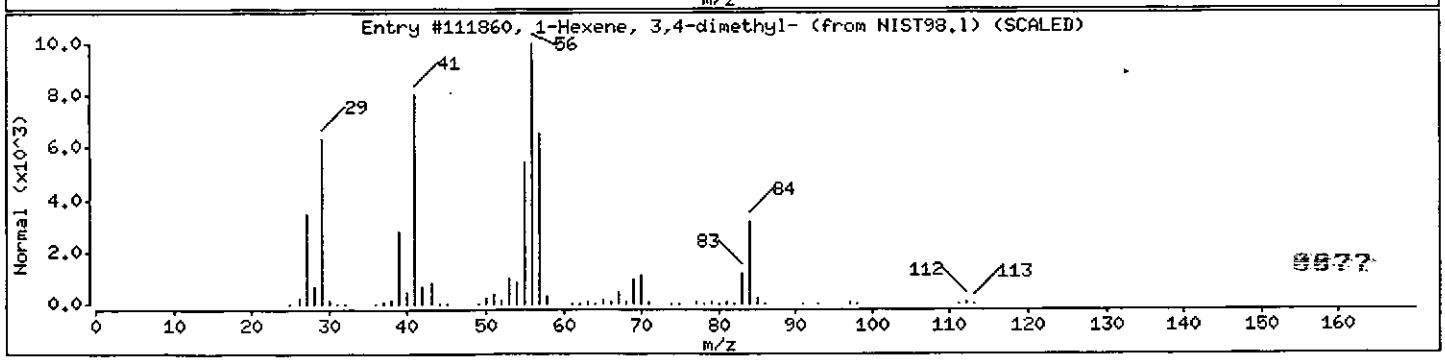
Review Code:

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclohexane	110-82-7	NIST98.1	111958	87	C6H12	84
1-Hexene	592-41-6	NIST98.1	2192	72	C6H12	84
1-Hexene, 3,4-dimethyl-	16745-94-1	NIST98.1	111860	64	C8H16	112









Data File: /chem/HP07566.i/06jan26b.b/rj26s01.d

Date : 26-JAN-2006 19:07

Client ID: 6005-

Instrument: HP07566.i

Sample Info: 6005-;4692565;2;0;;

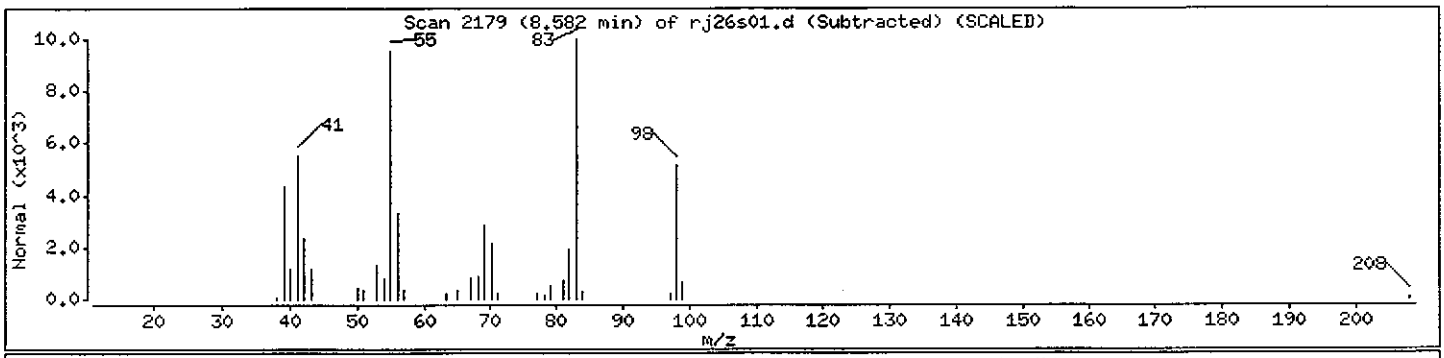
Operator: JML01693

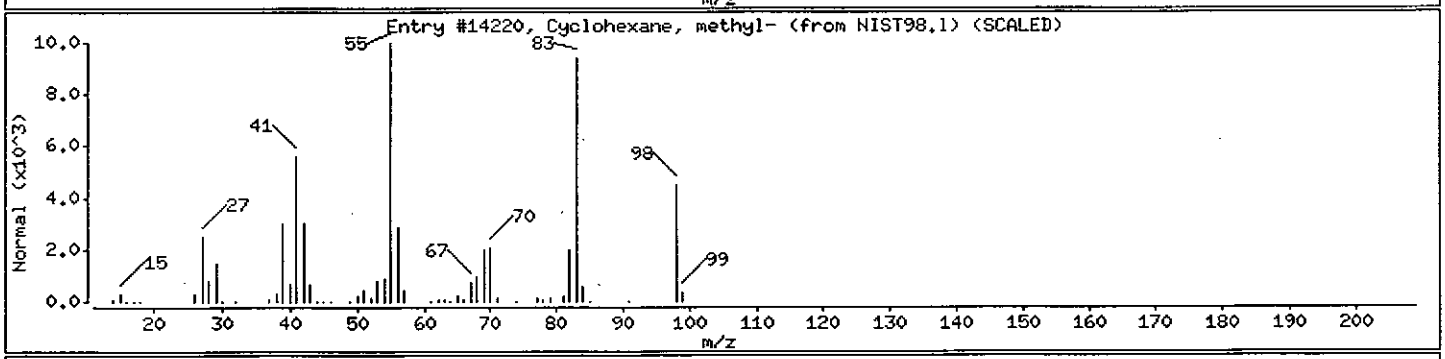
Column phase: DB-624

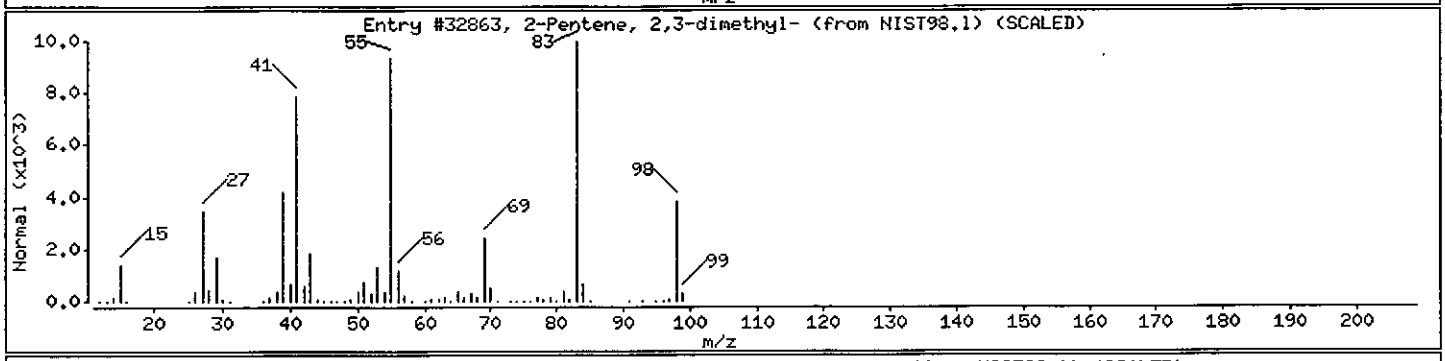
Column diameter: 0.25

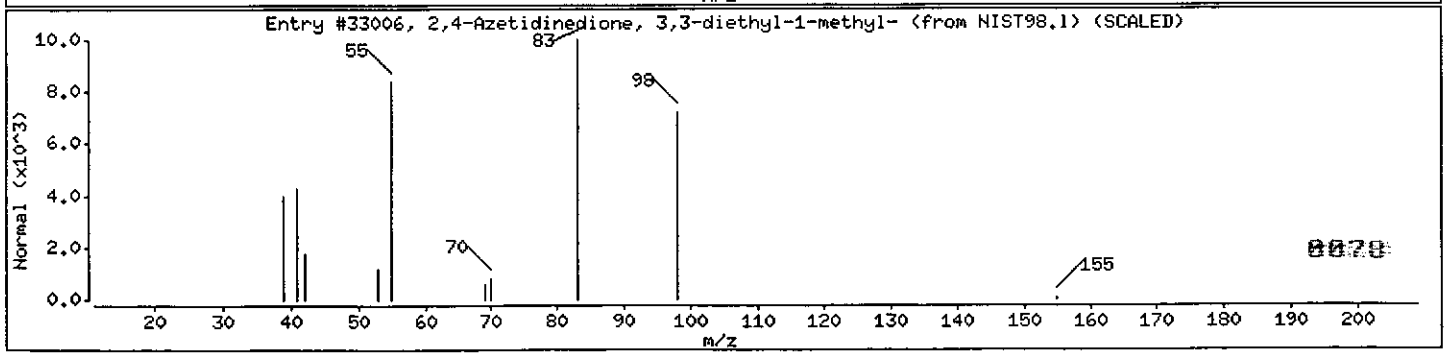
Review Code:

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclohexane, methyl-	108-87-2	NIST98.1	14220	90	C7H14	98
2-Pentene, 2,3-dimethyl-	10574-37-5	NIST98.1	32863	64	C7H14	98
2,4-Azetidinedione, 3,3-diethyl-1-methyl	69315-91-9	NIST98.1	33006	64	C8H13NO2	155









Data File: /chem/HP07566.i/06jan26b.b/rj26s01.d

Date : 26-JAN-2006 19:07

Client ID: 6005-

Instrument: HP07566.i

Sample Info: 6005-;4692565;2;0;;

Operator: JML01693

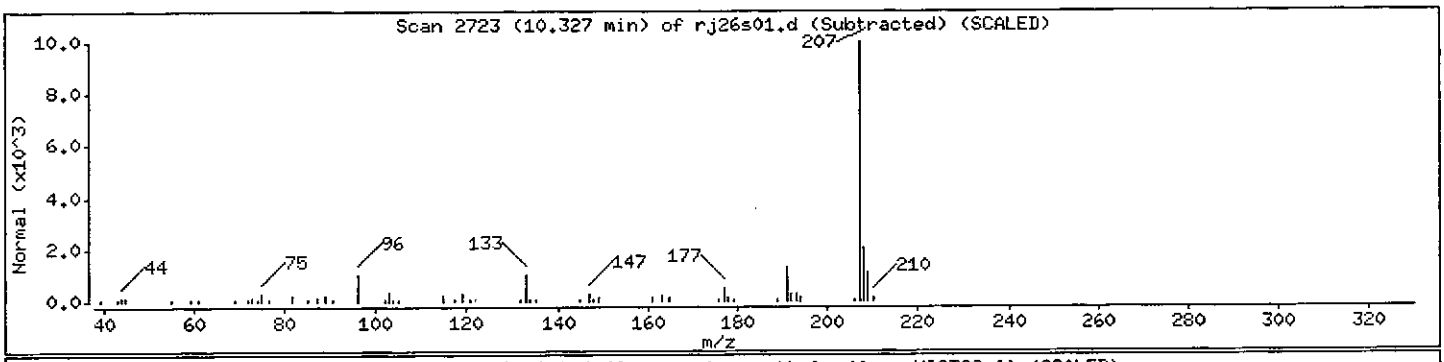
JML 1/26/06

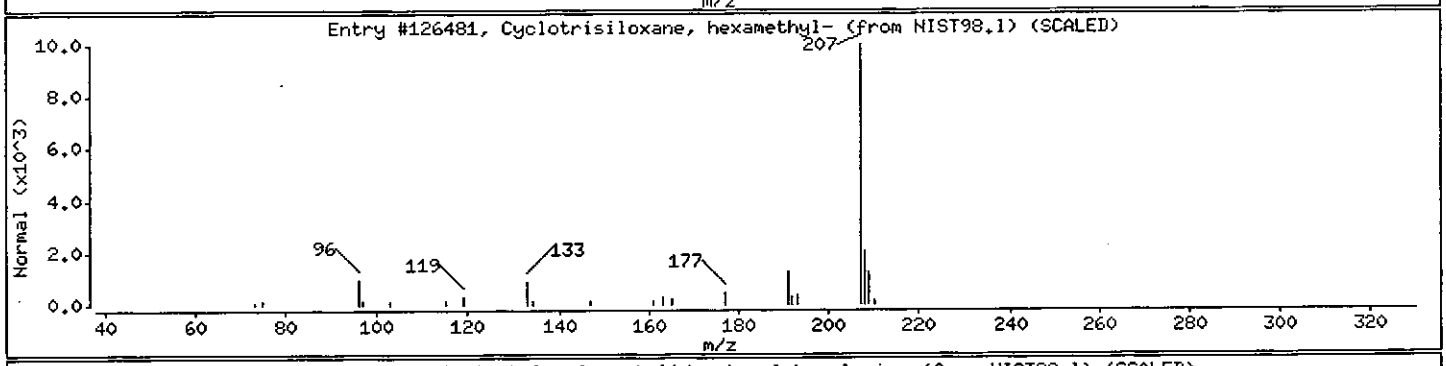
Column phase: DB-624

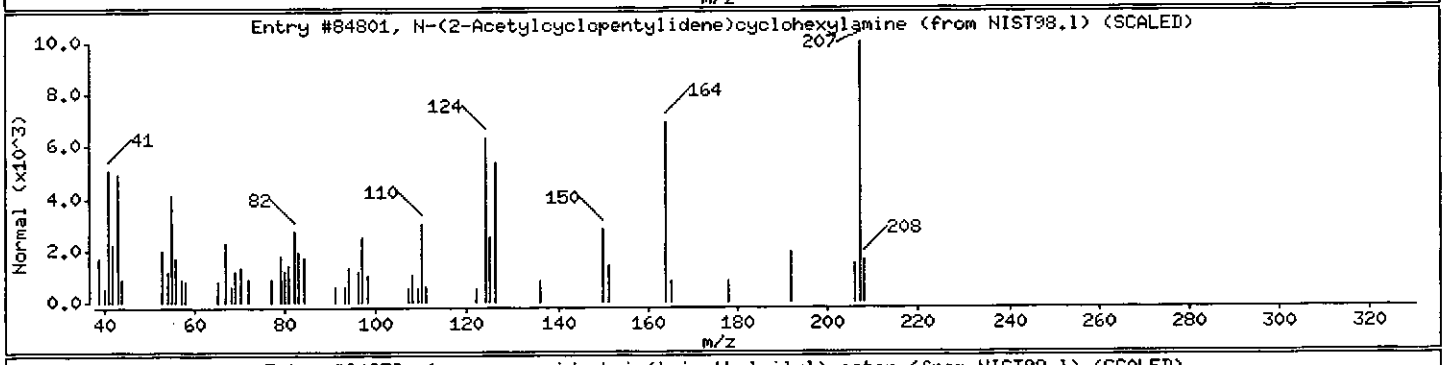
Column diameter: 0.25

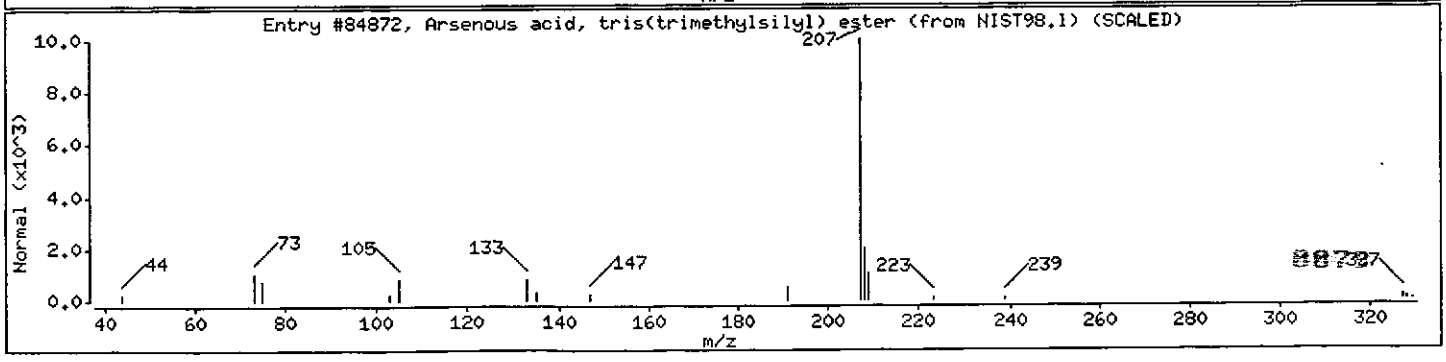
Review Code:

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotrisiloxane, hexamethyl-	541-05-9	NIST98.1	126481	91	C6H18O3Si3	222
N-(2-Acetylcyclopentylidene)cyclohexylam	1000100-48-5	NIST98.1	84801	59	C13H21NO	207
Arsenous acid, tris(trimethylsilyl) este	55429-29-3	NIST98.1	84872	50	C9H27AsO3Si3	342









Data File: /chem/HP07566.i/06jan26b.b/rj26s01.d

Date : 26-JAN-2006 19:07

Client ID: 6005-

Instrument: HP07566.i

Sample Info: 6005-;4692565;2;0;;

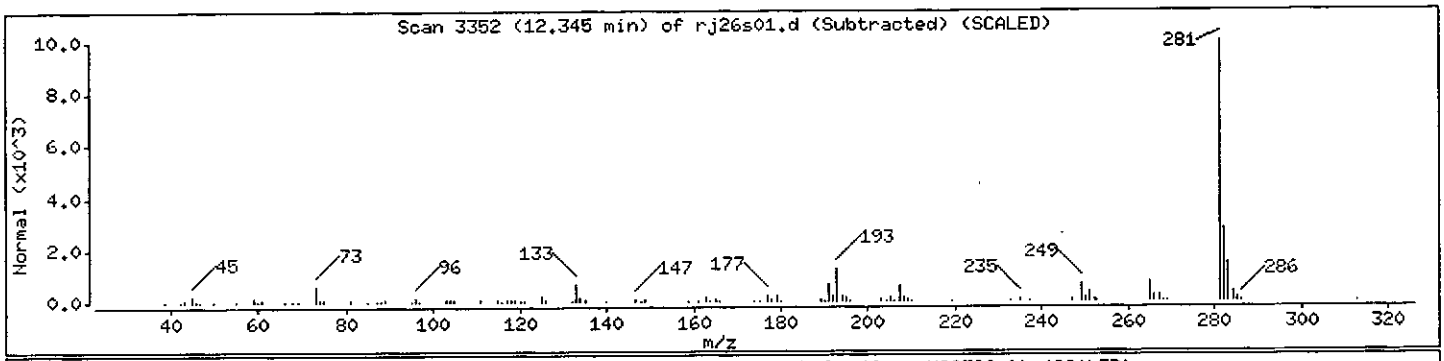
Operator: JML01693

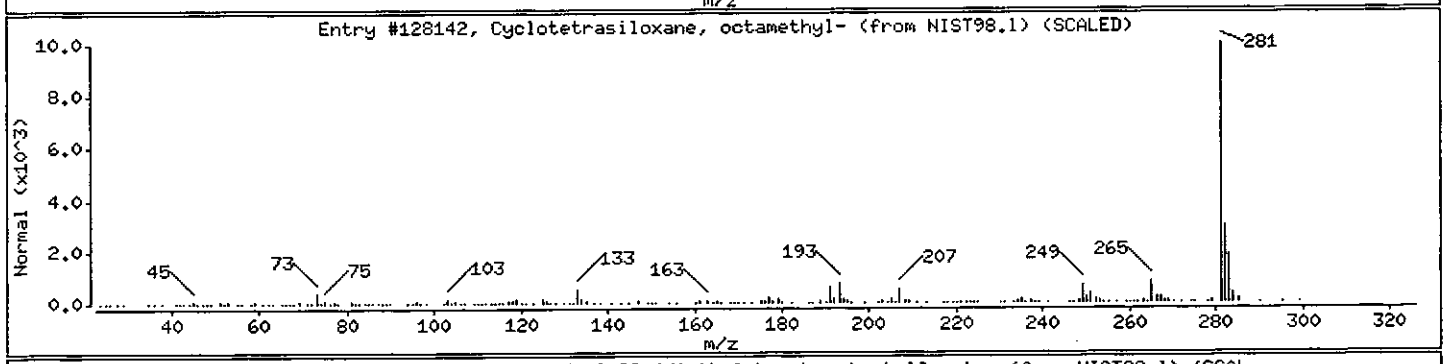
Column phase: DB-624

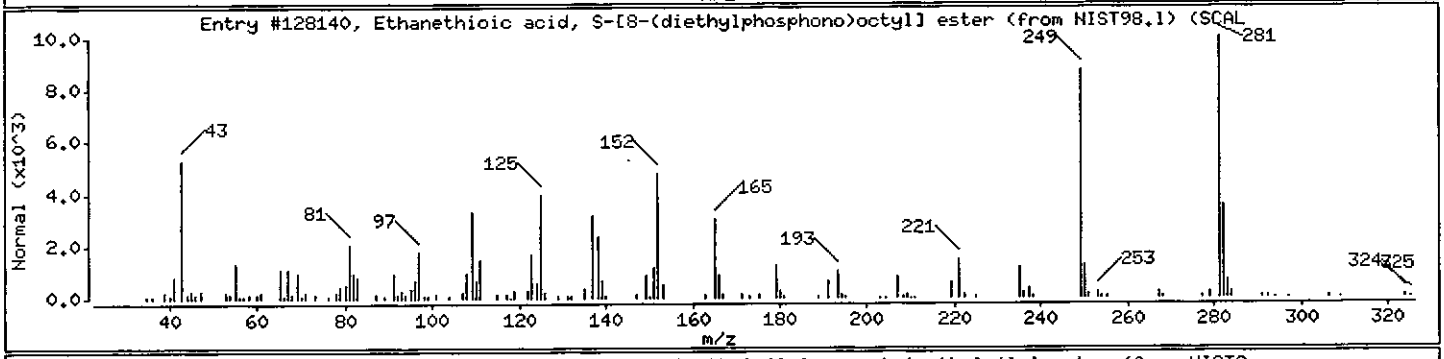
Column diameter: 0.25

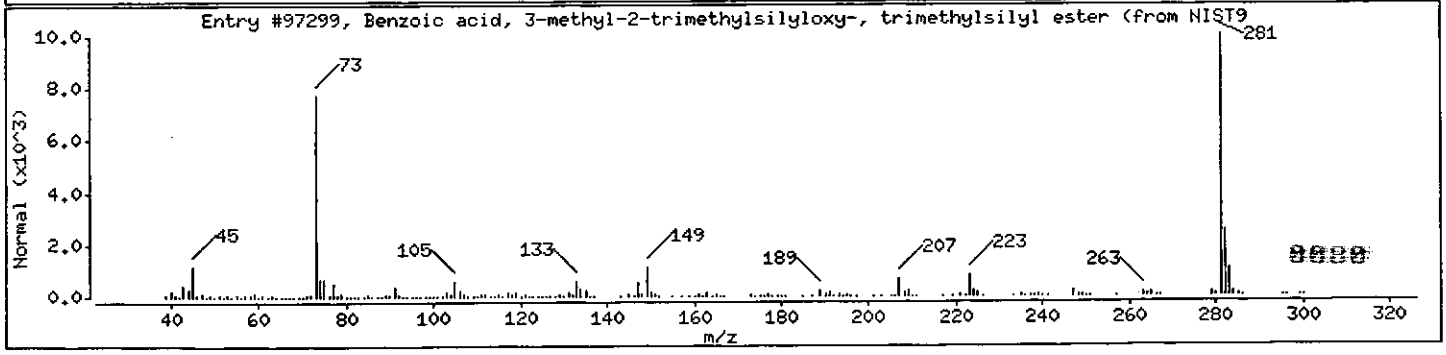
Review Code:

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotetrasiloxane, octamethyl-	556-67-2	NIST98.1	128142	87	C8H24O4Si4	296
Ethanethioic acid, S-[8-(diethylphosphon	129065-11-8	NIST98.1	128140	81	C14H29O4PS	324
Benzoic acid, 3-methyl-2-trimethylsilylo	1000153-57-1	NIST98.1	97299	59	C14H24O3Si2	296









Data File: /chem/HP07566.i/06jan26b.b/rj26s01.d

Date : 26-JAN-2006 19:07

Client ID: 6005-

Instrument: HP07566.i

Sample Info: 6005-;4692565;2;0;;

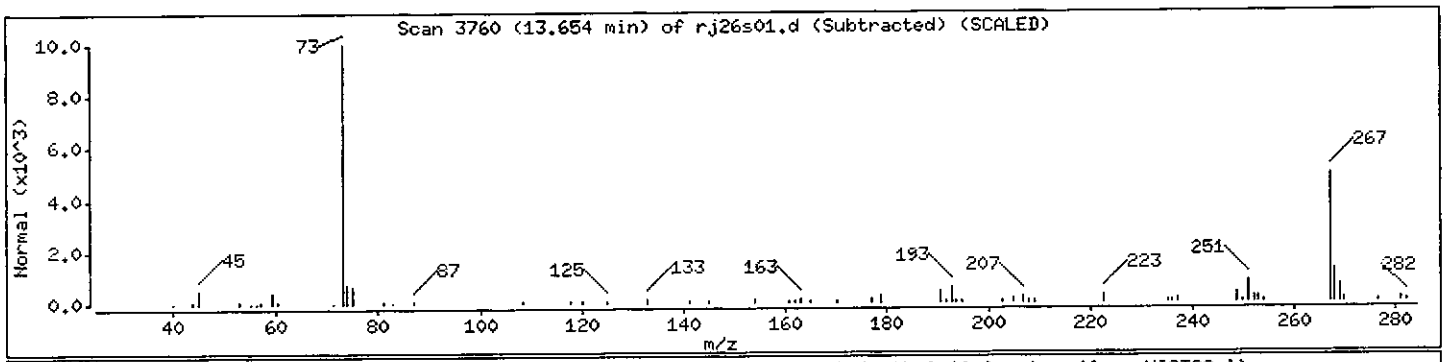
Operator: JML01693

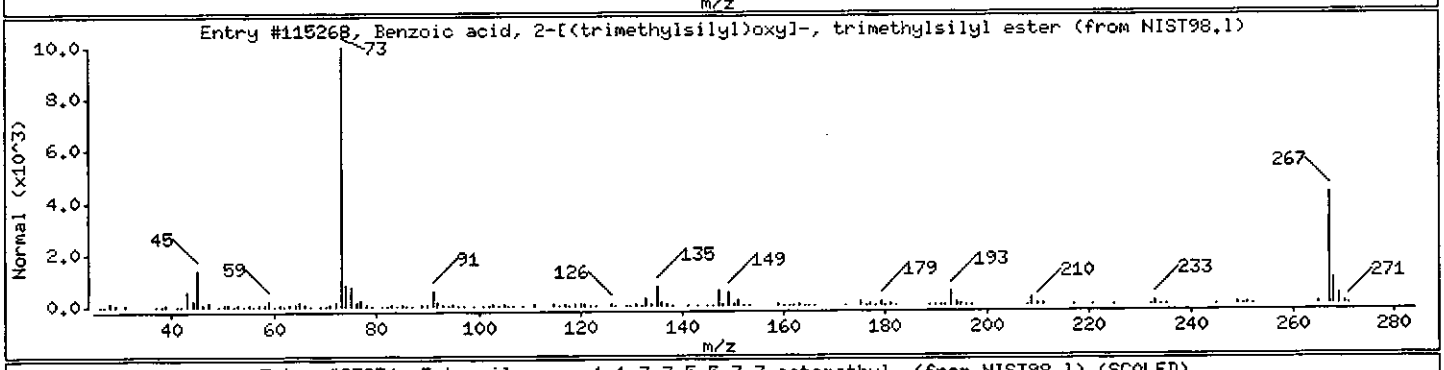
Column phase: DB-624

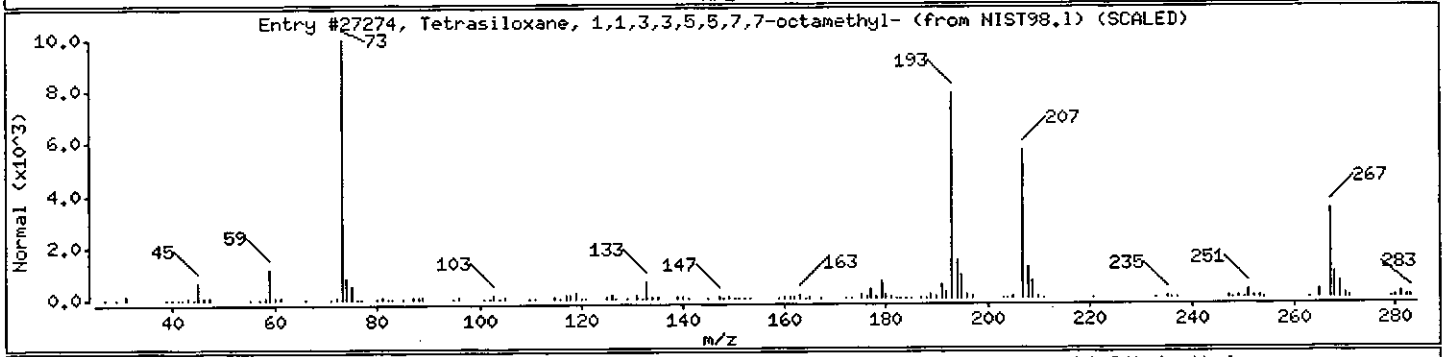
Column diameter: 0.25

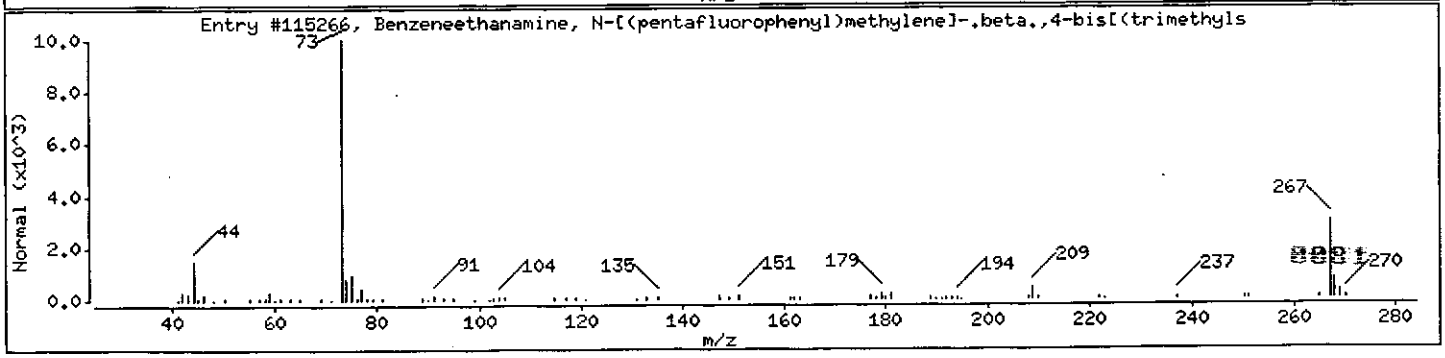
Review Code:

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzoic acid, 2-[(trimethylsilyl)oxy]-,	3789-85-3	NIST98.1	115268	50	C13H22O3Si2	282
Tetrasiloxane, 1,1,3,3,5,5,7,7-octamethy	1000-05-1	NIST98.1	27274	28	C8H26O3Si4	282
Benzeneethanamine, N-[(pentafluorophenyl	55429-85-1	NIST98.1	115266	16	C21H26F5NO2Si	475









1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6020-

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) SOIL Lab Sample ID: 4692566

Sample wt/vol: 5.78 (g/mL) g Lab File ID: HP07566.i/06jan26b.b/rj26s03.d

Level: (low/med) LOW Date Received: 01/20/06

Moisture: not dec. 14 Date Analyzed: 01/26/06

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MDL ug/Kg	Q
74-87-3	Chloromethane	2	U
75-01-4	Vinyl Chloride	2	U
74-83-9	Bromomethane	3	U
75-00-3	Chloroethane	3	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	14	
75-15-0	Carbon Disulfide	6	J
75-09-2	Methylene Chloride	2	U
75-34-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (Total)	2	U
78-93-3	2-Butanone	7	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
71-43-2	Benzene	2	J
107-06-2	1,2-Dichloroethane	2	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	3	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-Pentanone	3	U
108-88-3	Toluene	4	J
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	2	U
127-18-4	Tetrachloroethene	1	U
591-78-6	2-Hexanone	3	U
124-48-1	Dibromochloromethane	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (Total)	2	J

0002

FORM I VOA

OLM03.0

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6020-

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) SOIL Lab Sample ID: 4692566

Sample wt/vol: 5.78 (g/mL) g Lab File ID: HP07566.i/06jan26b.b/rj26s03.d

Level: (low/med) LOW Date Received: 01/20/06

Moisture: not dec. 14 Date Analyzed: 01/26/06

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	MDL ug/Kg	Q
100-42-5	Styrene		1	U
75-25-2	Bromoform		1	U
79-34-5	1,1,2,2-Tetrachloroethane		1	U

0083

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

6020-

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) SOIL Lab Sample ID: 4692566

Sample wt/vol: 5.78 (g/mL) g Lab File ID: HP07566.i/06jan26b.b/rj26s03.d

Level: (low/med) LOW Date Received: 01/20/06

% Moisture: not dec. 14 Date Analyzed: 01/26/06

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 11

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	2.34	430	J
2.	Unknown	2.84	58	J
3. 109-66-0	Pentane	3.14	42	NJ
4.	Unknown alkane	4.40	13	J
5.	Unknown alkane	5.20	15	J
6.	Unknown hydrocarbon	6.11	7	J
7.	Unknown alicyclic	7.03	6	J
8.	Unknown hydrocarbon	8.58	8	J
9.	Unknown siloxane	10.33	6	J B
10.	Unknown	10.66	16	J
11.	Unknown siloxane	12.34	10	J B
12.				
13.				
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30.				

0004

FORM I VOA-TIC

OLM03.0

6020-

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

4692566

File: /chem/HP07566.i/06jan26b.b/rj26s03.d
Sample: 6020-;4692566;2;0;;
Injected At:26-JAN-2006 20:01
Calibration Time: 29-JUN-2005 10:37
Target Method: ROLM32SL.m
Blank Reference: rj26b01.d
Sublist: 7157

Sample Concentration Formula: On-Column Amount * (Vt/Ws)
Batch:R060261AA
Analyst:JML01693
Instrument ID:HP07566.i
Standard Reference: rj26c01.d
Prep Factor:0.87
Units: ug/Kg

Matrix: SOIL
Level: Low
Sample Wt./Vol.: 5.7800 g (Ws)
Volume Purged: 5.0 ml (Vt)

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
43) Bromochloromethane	6.566(0.006)	1551	128	98982(-23)	50.00	
58) 1,4-Difluorobenzene	7.961(-0.003)	1986	114	631809(-23)	50.00	
91) Chlorobenzene-d5	11.253(0.000)	3012	117	416707(-45)	50.00	

= 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
50) 1,2-Dichloroethane-d4	(1)	7.358(-0.002)	65	351292	53.479	107%		70 - 121
78) Toluene-d8	(3)	9.822(0.000)	98	702343	63.680	127%		84 - 138
103) 4-Bromofluorobenzene	(3)	12.237(0.000)	95	144691	32.402	65%		59 - 113

= 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	LOQ
2) Chloromethane	(1)				ND	ND			1.73	8.65
3) Vinyl Chloride	(1)				ND	ND			1.73	8.65
5) Bromomethane	(1)				ND	ND			2.60	8.65
6) Chloroethane	(1)				ND	ND			2.60	8.65
10) 1,1-Dichloroethene	(1)				ND	ND			1.73	8.65
16) Acetone	(1)	3.711(0.000)	43	33056	14.359	12.42			6.06	8.65
18) Carbon Disulfide	(1)	4.000(0.000)	76	96146	5.799	5.02		J	2.60	8.65
22) Methylene Chloride	(1)				ND	ND			1.73	8.65
26) trans-1,2-Dichloroethene	(1)				ND	ND			1.73	8.65
31) 1,1-Dichloroethane	(1)				ND	ND			0.87	8.65
37) cis-1,2-Dichloroethene	(1)				ND	ND			1.73	8.65
40) 2-Butanone	(1)				ND	ND			6.06	8.65
45) Chloroform	(1)				ND	ND			0.87	8.65
46) 1,1,1-Trichloroethane	(2)				ND	ND			0.87	8.65
49) Carbon Tetrachloride	(2)				ND	ND			0.87	8.65
38) 1,2-Dichloroethene (Total)	(1)				ND	ND			1.73	8.65
52) Benzene	(2)	7.448(0.001)	78	37164	1.799	1.56		J	0.87	8.65
53) 1,2-Dichloroethane	(1)				ND	ND			1.73	8.65
61) Trichloroethene	(2)				ND	ND			0.87	8.65
66) 1,2-Dichloropropane	(2)				ND	ND			2.60	8.65
71) Bromodichloromethane	(2)				ND	ND			1.73	8.65
75) cis-1,3-Dichloropropene	(2)				ND	ND			0.87	8.65
76) 4-Methyl-2-Pentanone	(3)				ND	ND			2.60	8.65
80) Toluene	(3)	9.892(0.001)	91	69025	4.406	3.81		J	0.87	8.65

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

0085

6020-

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

4692566

File: /chem/HP07566.i/06jan26b.b/rj26s03.d
Sample: 6020-;4692566;2;0;;
Injected At:26-JAN-2006 20:01
Calibration Time: 29-JUN-2005 10:37
Target Method: ROLM32SL.m
Blank Reference: rj26b01.d
Sublist: 7157

Sample Concentration Formula: On-Column Amount * (Vt/Ws)
Batch:R060261AA
Analyst:JML01693
Instrument ID:HP07566.i
Standard Reference: rj26c01.d
Prep Factor:0.87
Units: ug/Kg

Matrix: SOIL
Level: Low
Sample Wt./Vol.: 5.7800 g (Ws)
Volume Purged: 5.0 ml (Vt)

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
81) trans-1,3-Dichloropropene	(2)					ND	ND			0.87	8.65
83) 1,1,2-Trichloroethane	(2)					ND	ND			1.73	8.65
85) Tetrachloroethene	(3)					ND	ND			0.87	8.65
87) 2-Hexanone	(3)					ND	ND			2.60	8.65
88) Dibromochloromethane	(2)					ND	ND			0.87	8.65
92) Chlorobenzene	(3)					ND	ND			0.87	8.65
94) Ethylbenzene	(3)					ND	ND			0.87	8.65
95) m+p-Xylene	(3)	11.477	(-0.001)	106	12608	1.900	1.64		J	0.87	8.65
96) Xylene (Total)	(3)			106	12608	1.925	1.67		J	0.87	8.65
97) o-Xylene	(3)					ND	ND			0.87	8.65
98) Styrene	(3)					ND	ND			0.87	8.65
99) Bromoform	(2)					ND	ND			0.87	8.65
108) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			0.87	8.65

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

Comments:

Analyst: Date: 2/3/06

Auditor: Date: 2/3/06

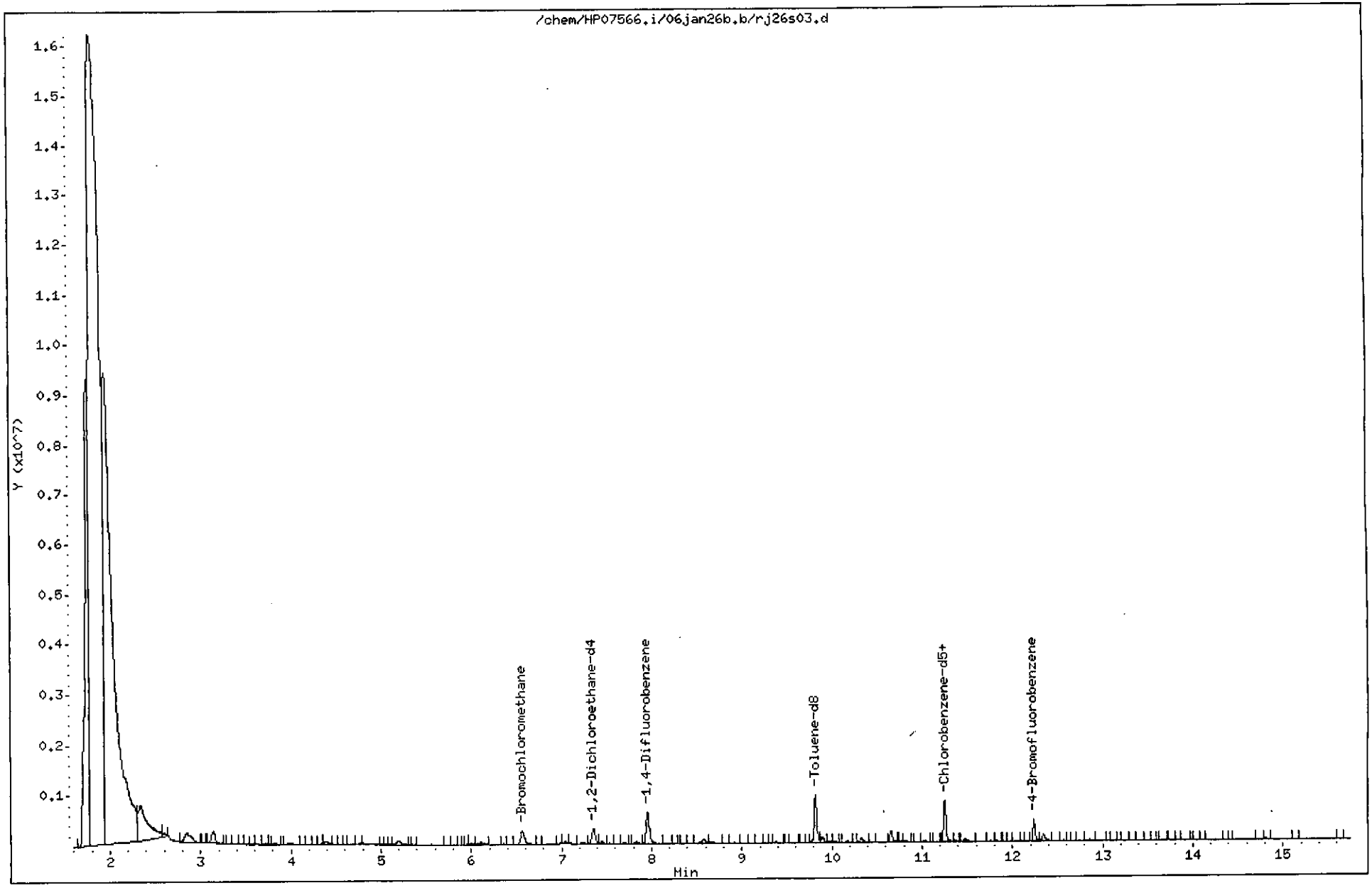
0886

Data File: /chem/HP07566.i/06jan26b.b/rj26s03.d
Date : 26-JAN-2006 20:01
Client ID: 6020-
Sample Info: 6020-;4692566;2;0;;

Column phase: DB-624

Instrument: HP07566.i

Operator: JML01693
Column diameter: 0.25



Quant Report

Target Revision 3.5

Data File: /chem/HP07566.i/06jan26b.b/rj26s03.d Instrument ID: HP07566.i
Injection date and time: 26-JAN-2006 20:01 Analyst ID: JML01693

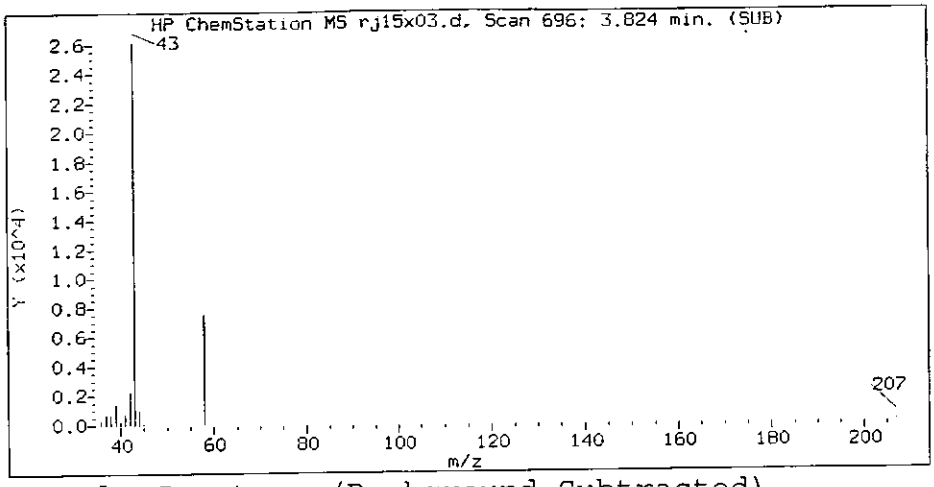
Method used: /chem/HP07566.i/06jan26b.b/ROLM32SL.m Sublist used: 7157
Calibration date and time: 29-JUN-2005 10:37
Date, time and analyst ID of latest file update: 03-Feb-2006 09:49 rvn00349

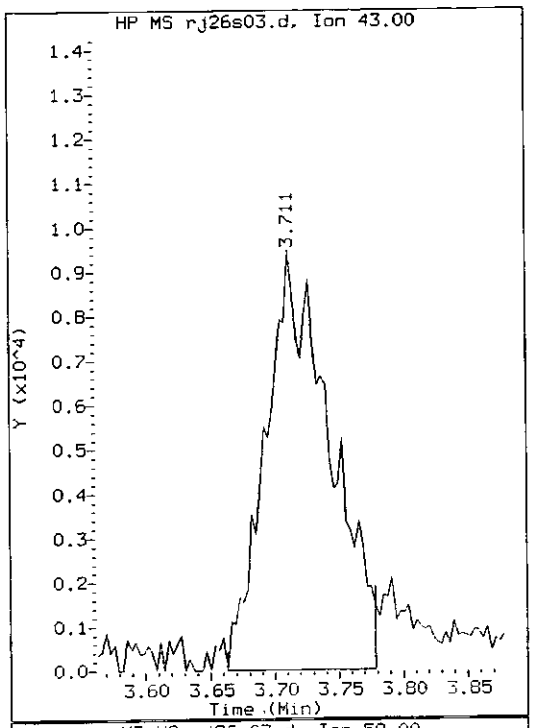
Sample Name: 6020- Lab Sample ID: 4692566

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
16) Acetone	(1)	3.711	43	33056	14.359
18) Carbon Disulfide	(1)	4.000	76	96146	5.799
43) *Bromochloromethane	(1)	6.566	128	98982	50.000
52) Benzene	(2)	7.448	78	37164	1.799
58) *1,4-Difluorobenzene	(2)	7.961	114	631809	50.000
80) Toluene	(3)	9.892	91	69025	4.406
91) *Chlorobenzene-d5	(3)	11.253	117	416707	50.000
95) m+p-Xylene	(3)	11.477	106	12608	1.900
96) Xylene (Total)	(3)		106	12608	1.925
50) $1,2-Dichloroethane-d4	(1)	7.358	65	351292	53.479
78) $Toluene-d8	(3)	9.822	98	702343	63.680
103) $4-Bromofluorobenzene	(3)	12.237	95	144691	32.402

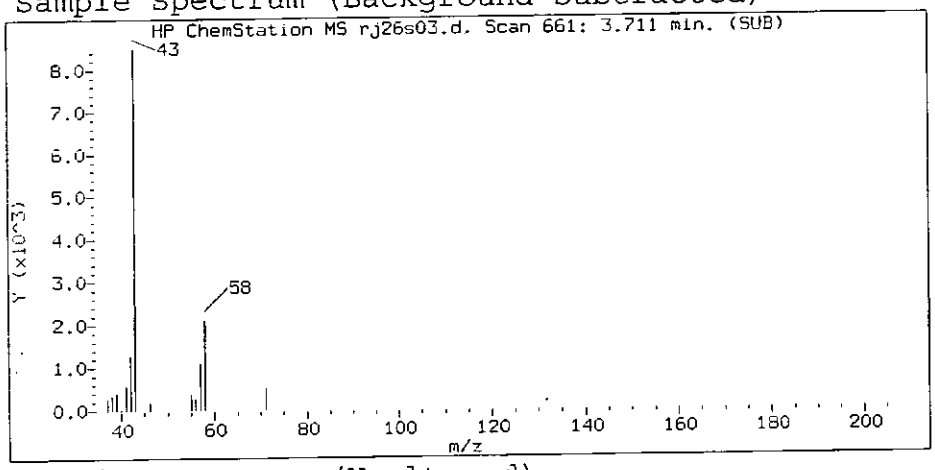
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

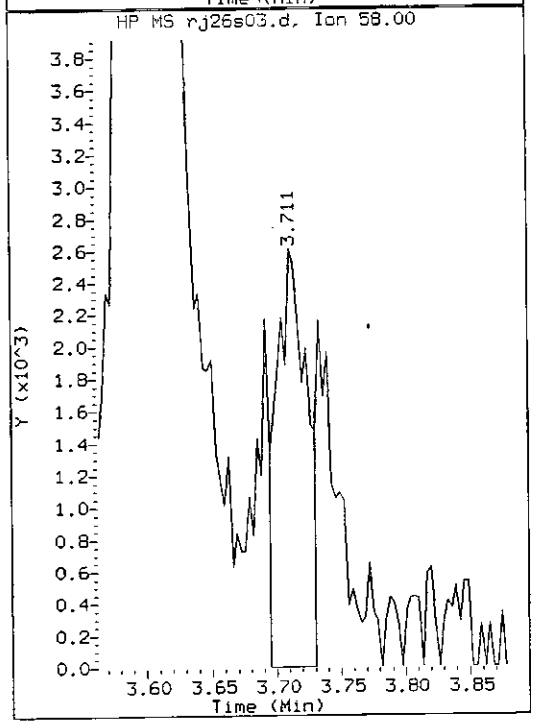
Reference Standard Spectrum for Acetone



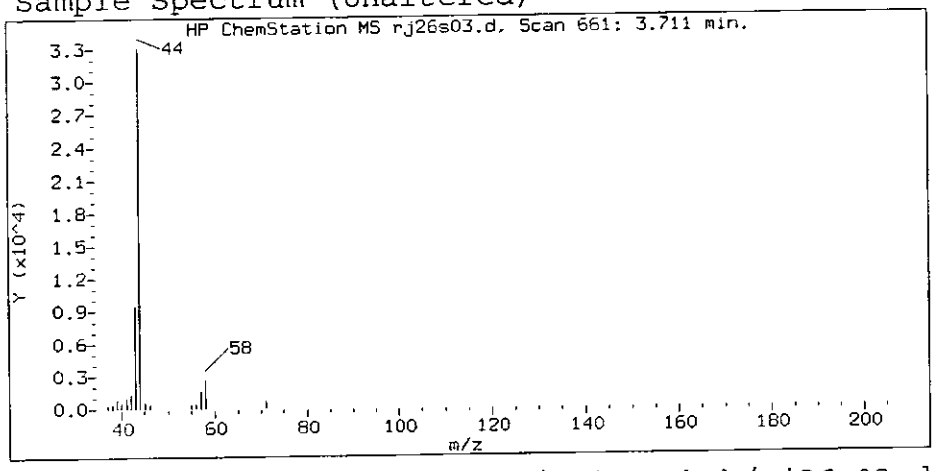


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP07566.i/06jan26b.b/rj26s03.d
Injection date and time: 26-JAN-2006 20:01

Instrument ID: HP07566.i
Analyst ID: JML01693

Method used: /chem/HP07566.i/06jan26b.b/ROLM32SL.m Sublist used: 7157
Calibration date and time: 26-JAN-2006 18:08
Date, time and analyst ID of latest file update: 26-Jan-2006 22:32 jml01693

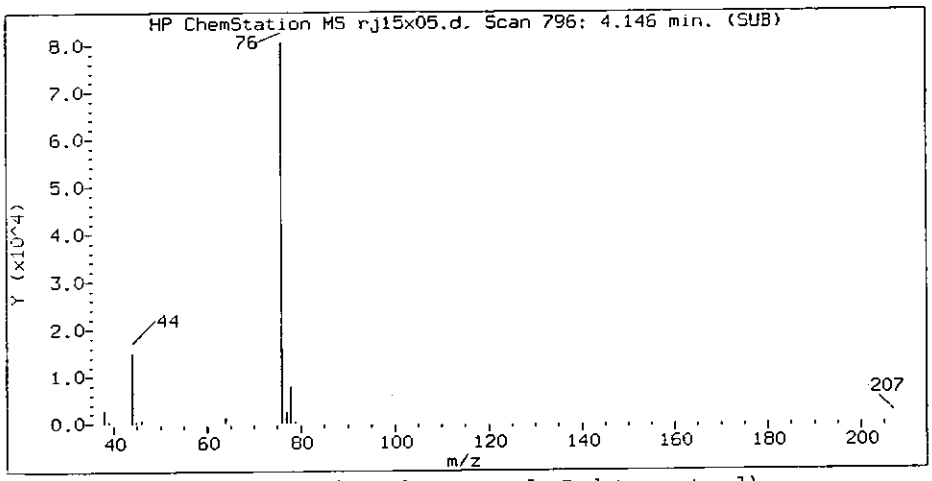
Sample Name: 6020-

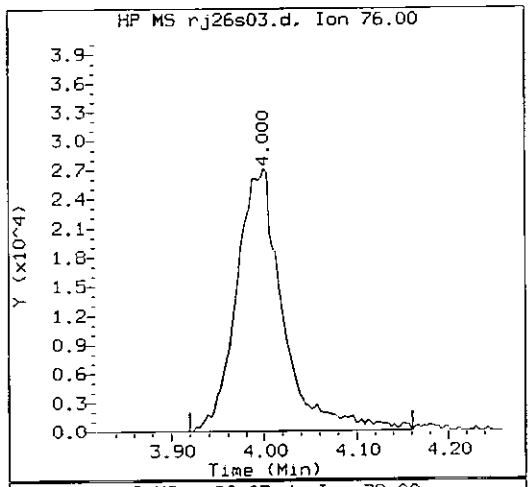
Lab Sample ID: 4692566

Compound Number	: 16
Compound Name	: Acetone
Scan Number	: 661
Retention Time (minutes)	: 3.711
Quant Ion	: 43.0
Area (flag)	: 33056
Concentration (ug/Kg)	: 14.3586

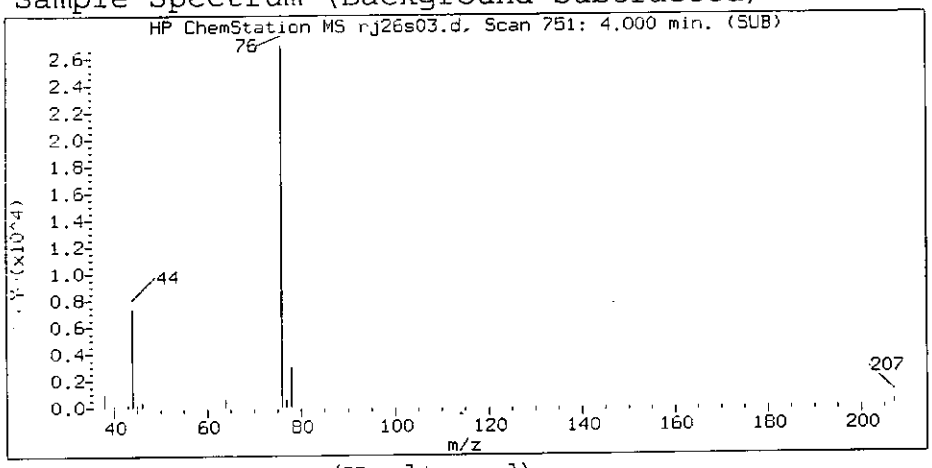
0089

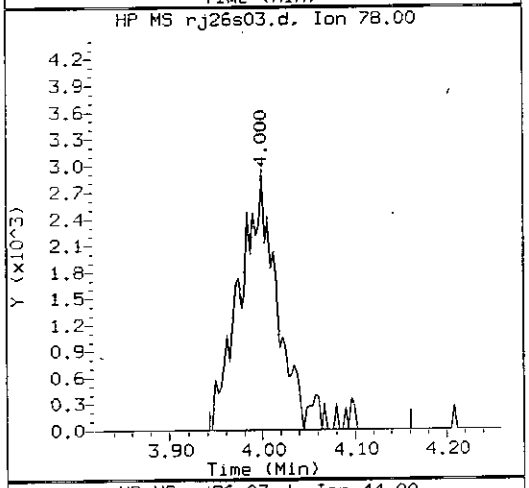
Reference Standard Spectrum for Carbon Disulfide



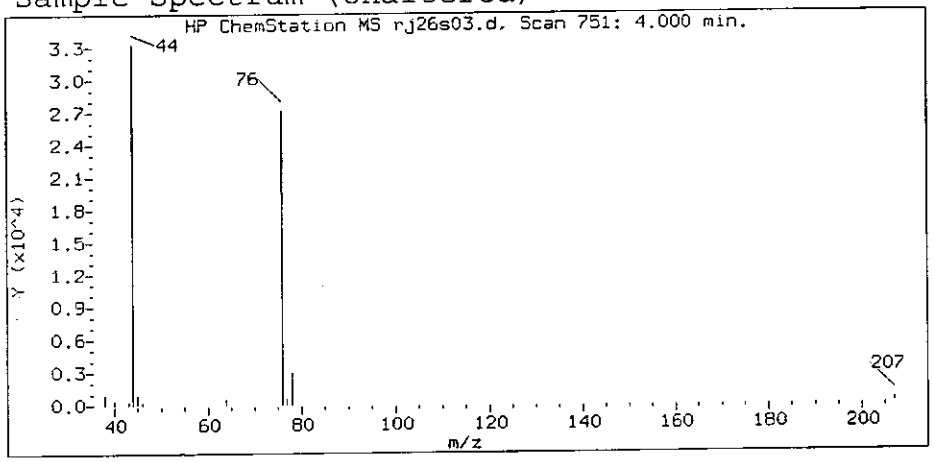


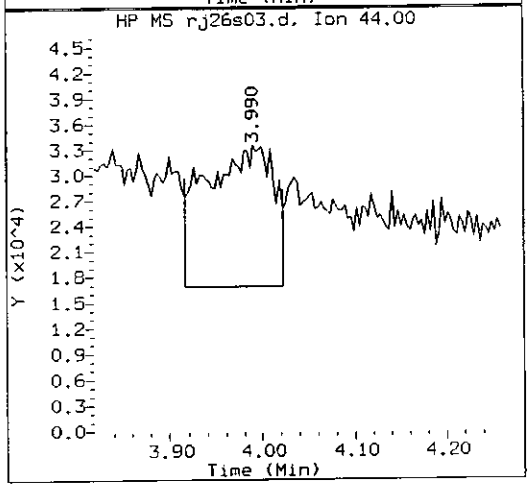
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP07566.i/06jan26b.b/rj26s03.d
Injection date and time: 26-JAN-2006 20:01

Instrument ID: HP07566.i
Analyst ID: JML01693

Method used: /chem/HP07566.i/06jan26b.b/ROLM32SL.m Sublist used: 7157
Calibration date and time: 26-JAN-2006 18:08
Date, time and analyst ID of latest file update: 26-Jan-2006 22:32 jml01693

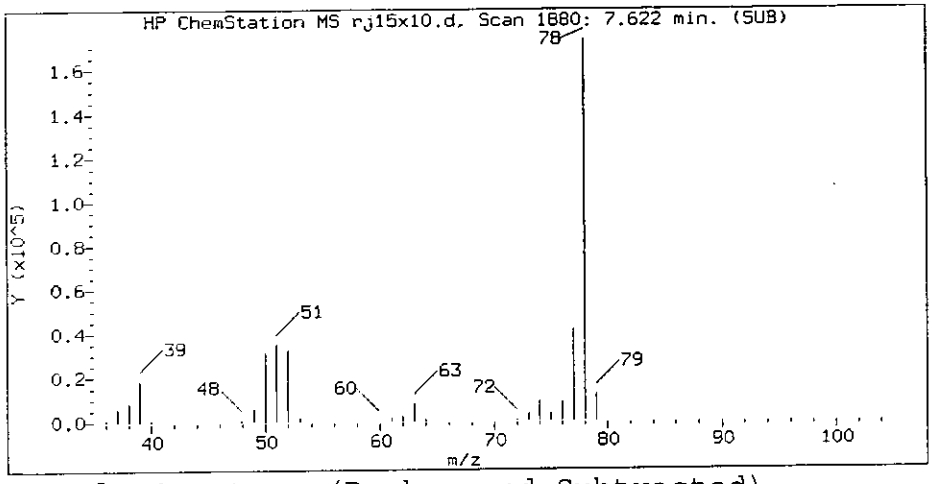
Sample Name: 6020-

Lab Sample ID: 4692566

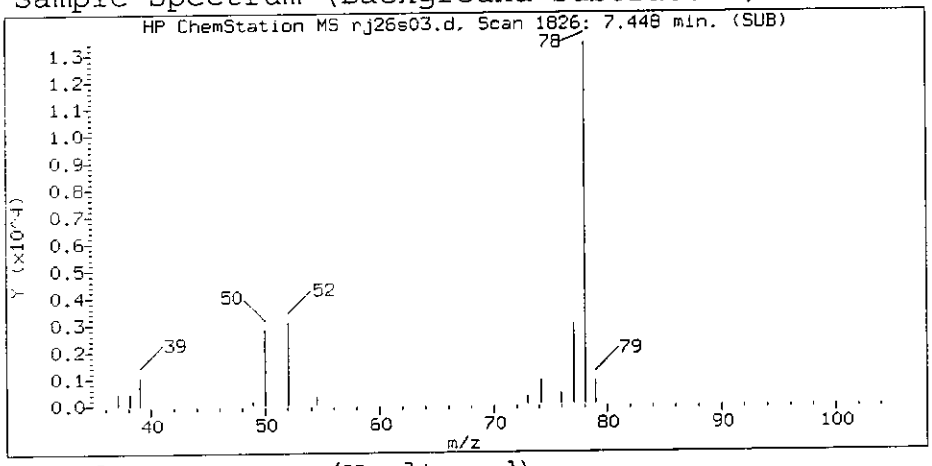
Compound Number	: 18
Compound Name	: Carbon Disulfide
Scan Number	: 751
Retention Time (minutes)	: 4.000
Quant Ion	: 76.0
Area (flag)	: 96146
Concentration (ug/Kg)	: 5.7992

0098

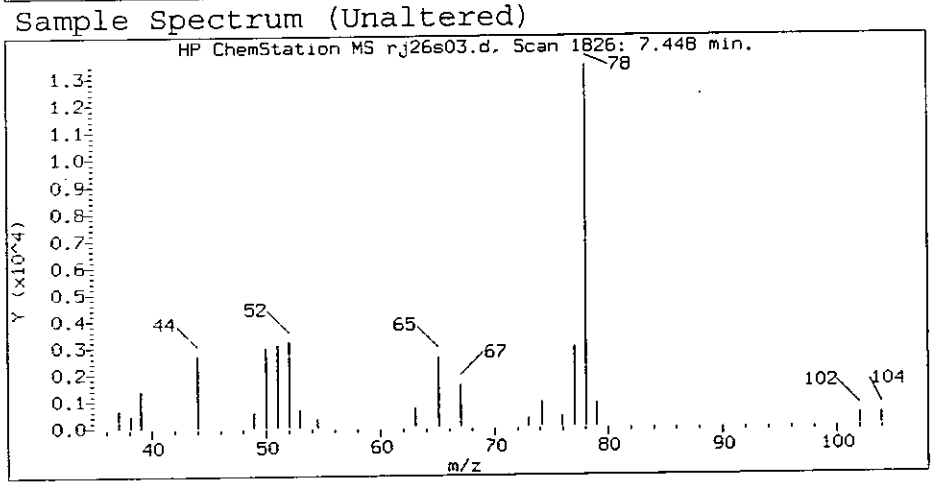
Reference Standard Spectrum for Benzene

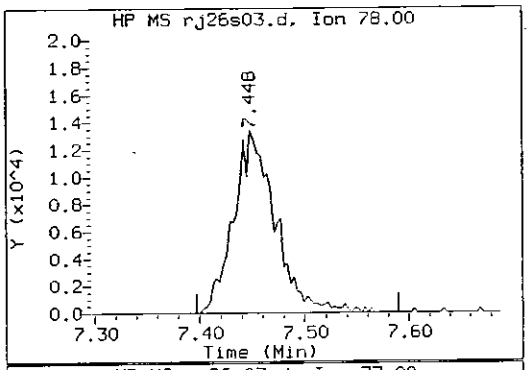


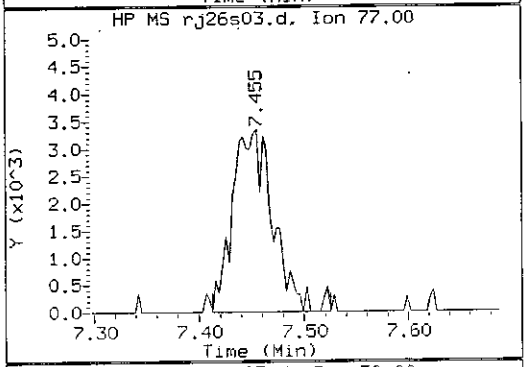
Sample Spectrum (Background Subtracted)

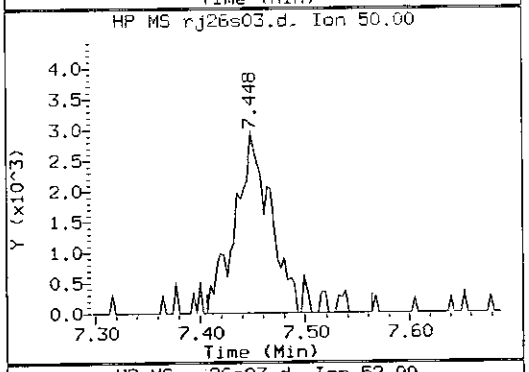


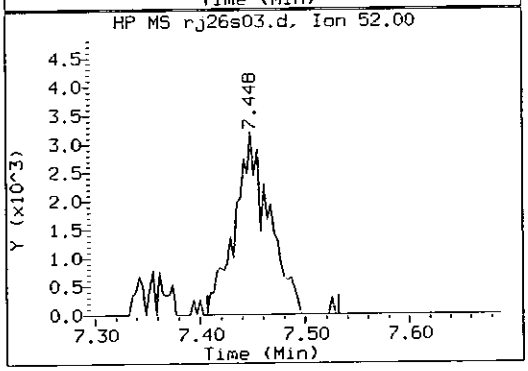
Sample Spectrum (Unaltered)











Data File: /chem/HP07566.i/06jan26b.b/rj26s03.d
Injection date and time: 26-JAN-2006 20:01

Instrument ID: HP07566.i
Analyst ID: JML01693

Method used: /chem/HP07566.i/06jan26b.b/ROLM32SL.m Sublist used: 7157
Calibration date and time: 26-JAN-2006 18:08
Date, time and analyst ID of latest file update: 26-Jan-2006 22:32 jml01693

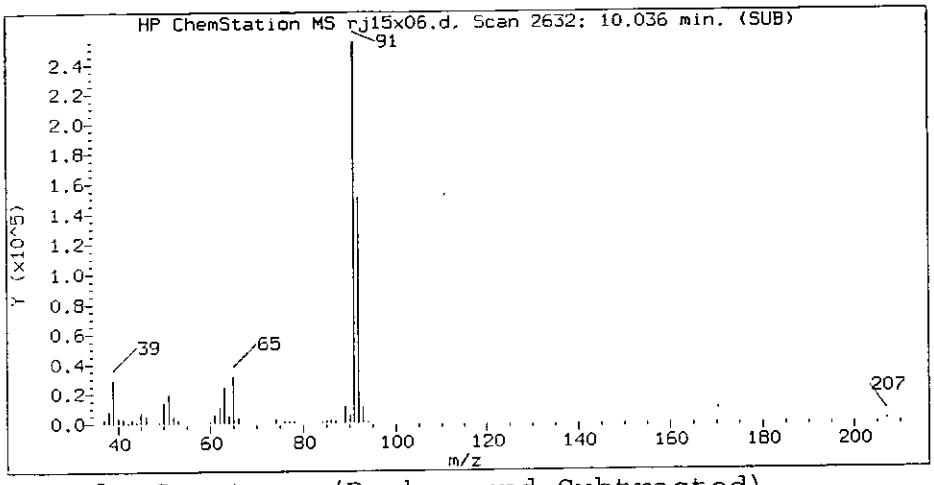
Sample Name: 6020-

Lab Sample ID: 4692566

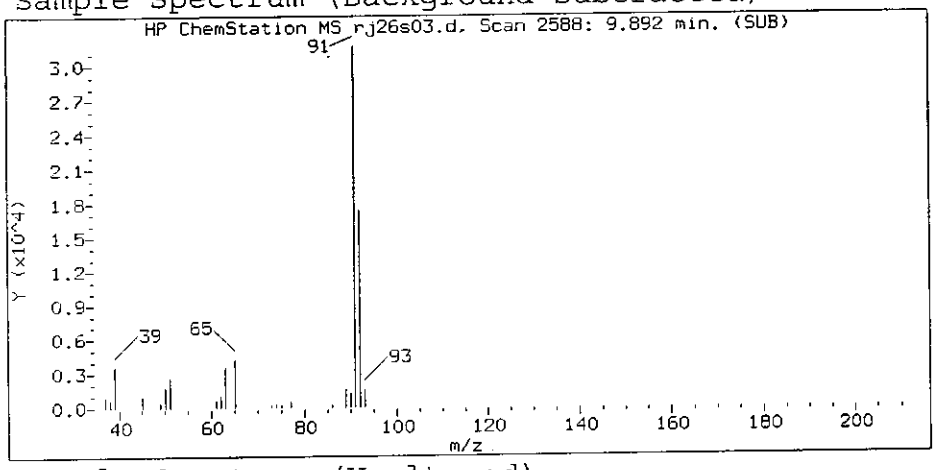
Compound Number	: 52
Compound Name	: Benzene
Scan Number	: 1826
Retention Time (minutes)	: 7.448
Quant Ion	: 78.0
Area (flag)	: 37164
Concentration (ug/Kg)	: 1.7994

0091

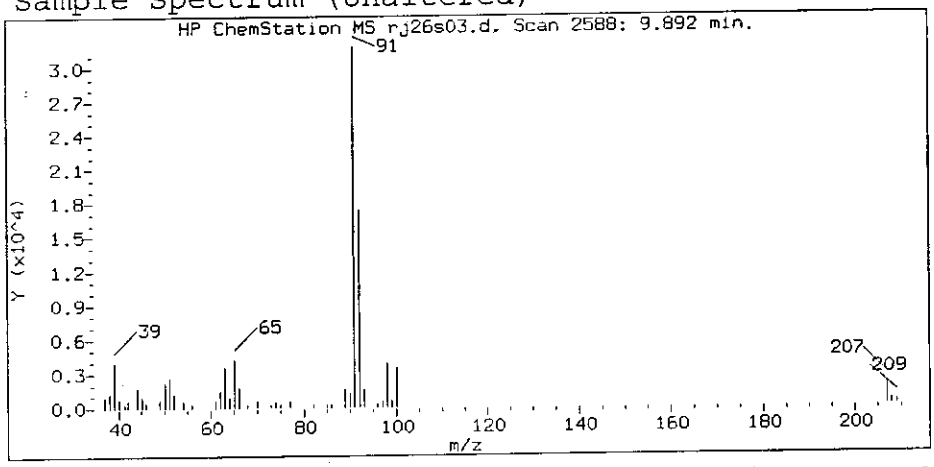
Reference Standard Spectrum for Toluene

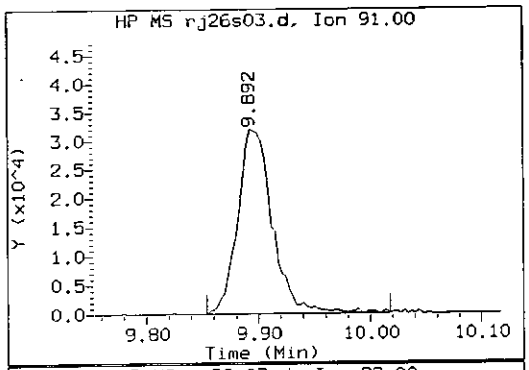


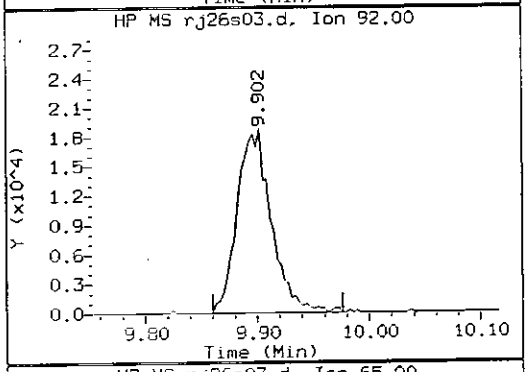
Sample Spectrum (Background Subtracted)

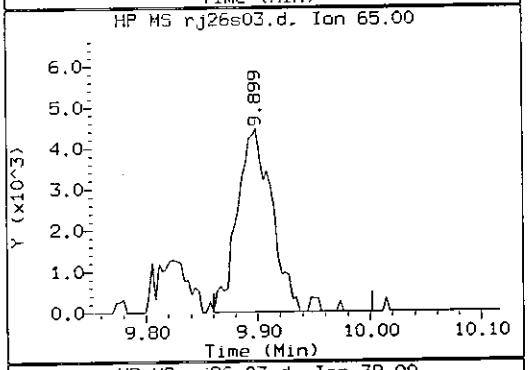


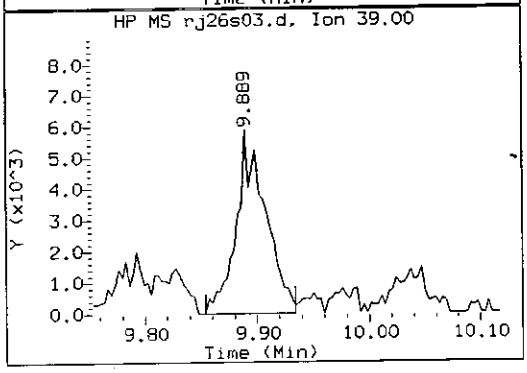
Sample Spectrum (Unaltered)











Data File: /chem/HP07566.i/06jan26b.b/rj26s03.d
Injection date and time: 26-JAN-2006 20:01

Instrument ID: HP07566.i
Analyst ID: JML01693

Method used: /chem/HP07566.i/06jan26b.b/ROLM32SL.m Sublist used: 7157
Calibration date and time: 26-JAN-2006 18:08
Date, time and analyst ID of latest file update: 26-Jan-2006 22:32 jml01693

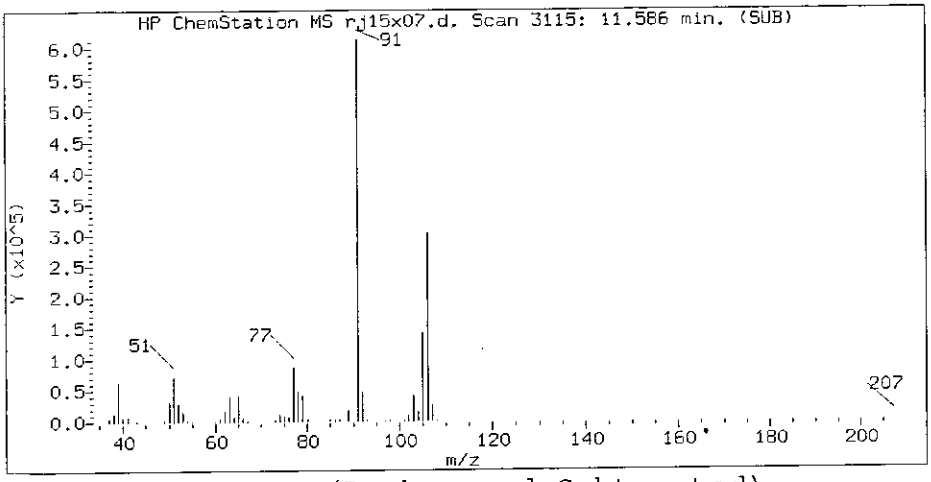
Sample Name: 6020-

Lab Sample ID: 4692566

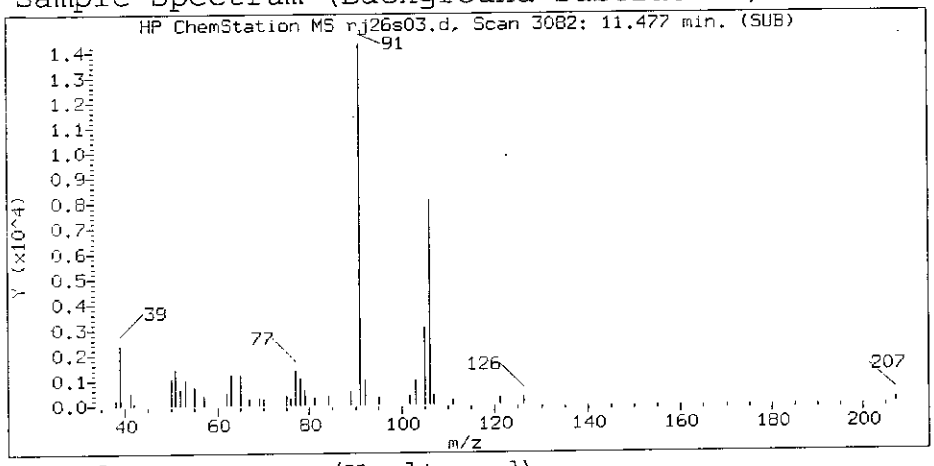
Compound Number	: 80
Compound Name	: Toluene
Scan Number	: 2588
Retention Time (minutes)	: 9.892
Quant Ion	: 91.0
Area (flag)	: 69025
Concentration (ug/Kg)	: 4.4055

0892

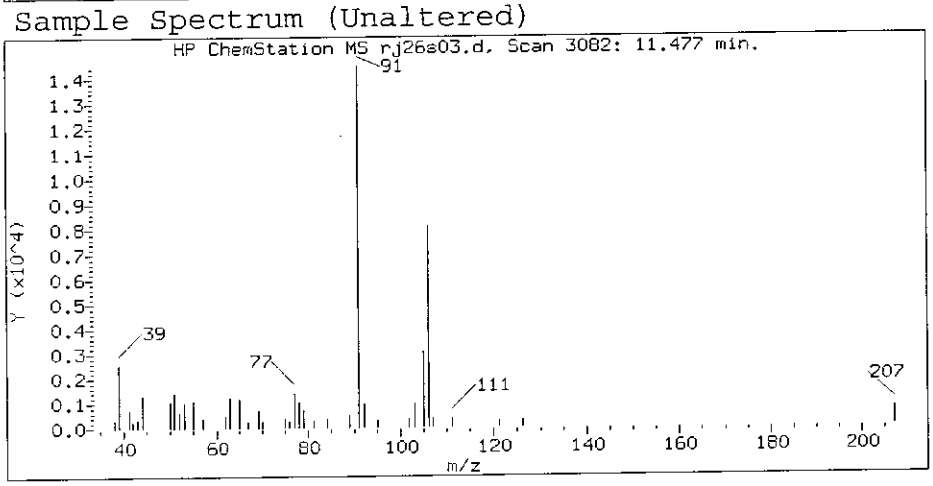
Reference Standard Spectrum for m+p-Xylene

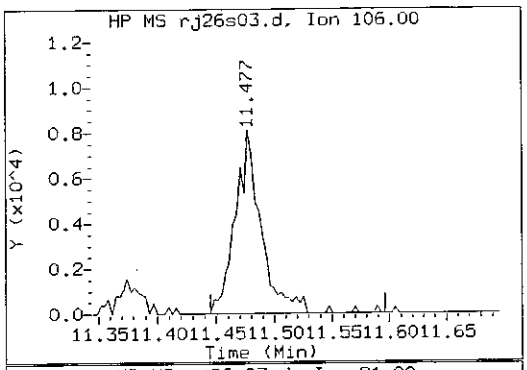


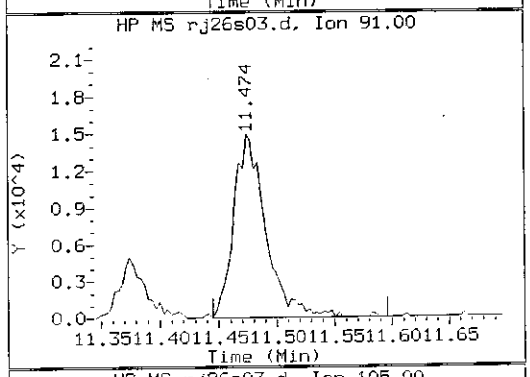
Sample Spectrum (Background Subtracted)

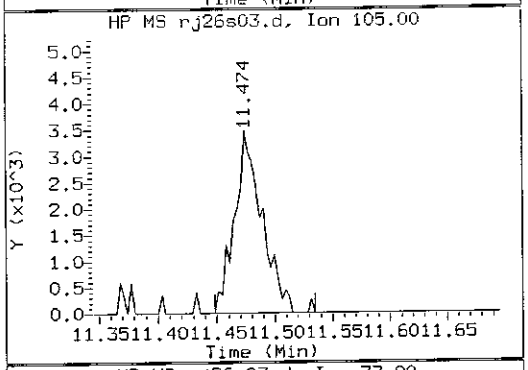


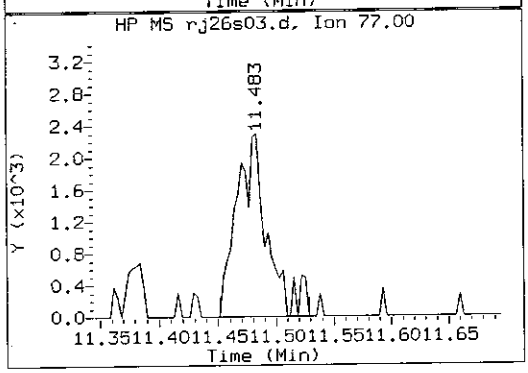
Sample Spectrum (Unaltered)











Data File: /chem/HP07566.i/06jan26b.b/rj26s03.d
Injection date and time: 26-JAN-2006 20:01

Instrument ID: HP07566.i
Analyst ID: JML01693

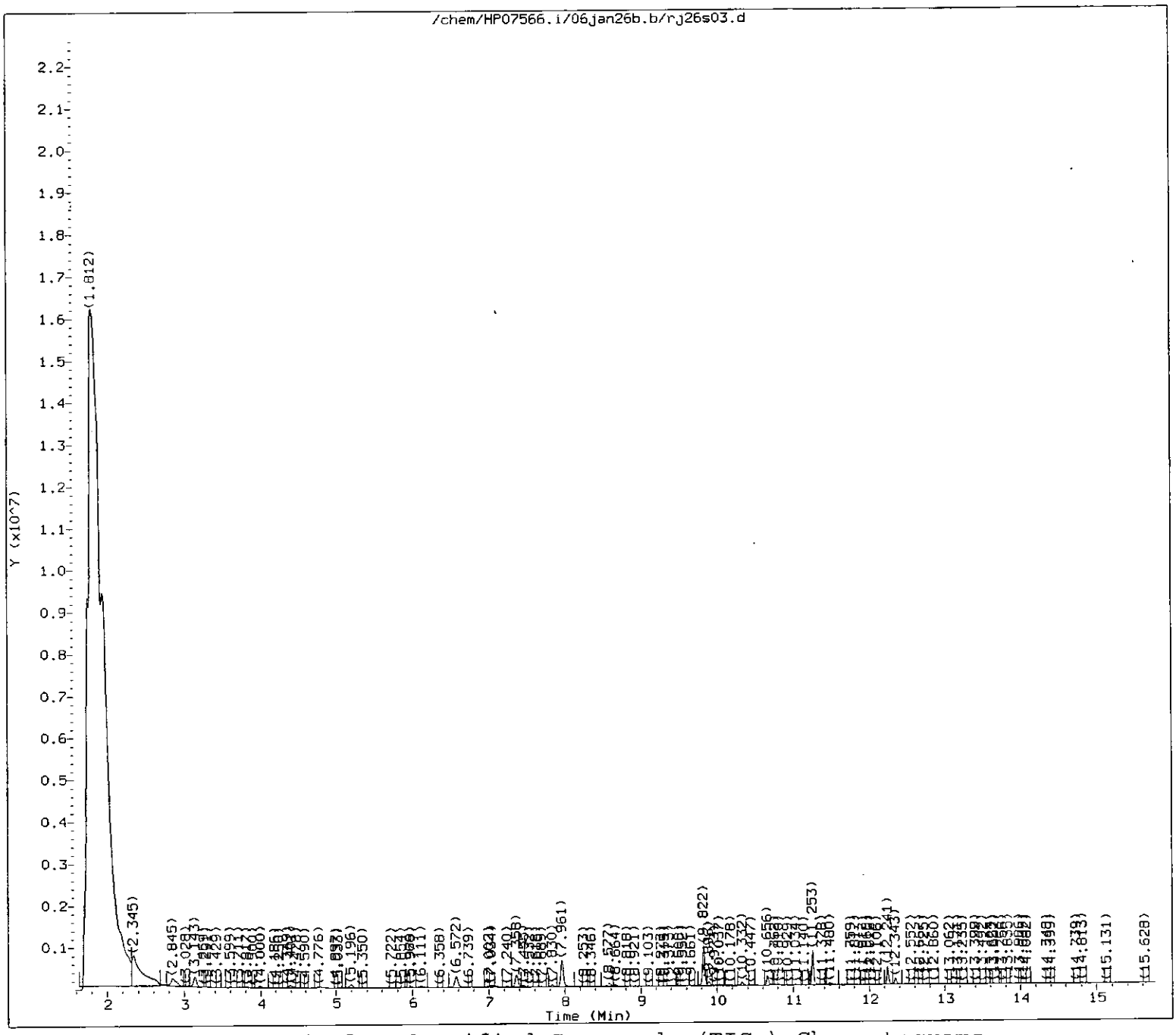
Method used: /chem/HP07566.i/06jan26b.b/ROLM32SL.m Sublist used: 7157
Calibration date and time: 26-JAN-2006 18:08
Date, time and analyst ID of latest file update: 26-Jan-2006 22:32 jml01693

Sample Name: 6020-

Lab Sample ID: 4692566

Compound Number	: 95
Compound Name	: m+p-Xylene
Scan Number	: 3082
Retention Time (minutes)	: 11.477
Quant Ion	: 106.0
Area (flag)	: 12608
Concentration (ug/Kg)	: 1.8998

0093



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP07566.i/06jan26b.b/rj26s03.d Instrument ID: HP07566.i
Injection date and time: 26-JAN-2006 20:01 Analyst ID: JML01693

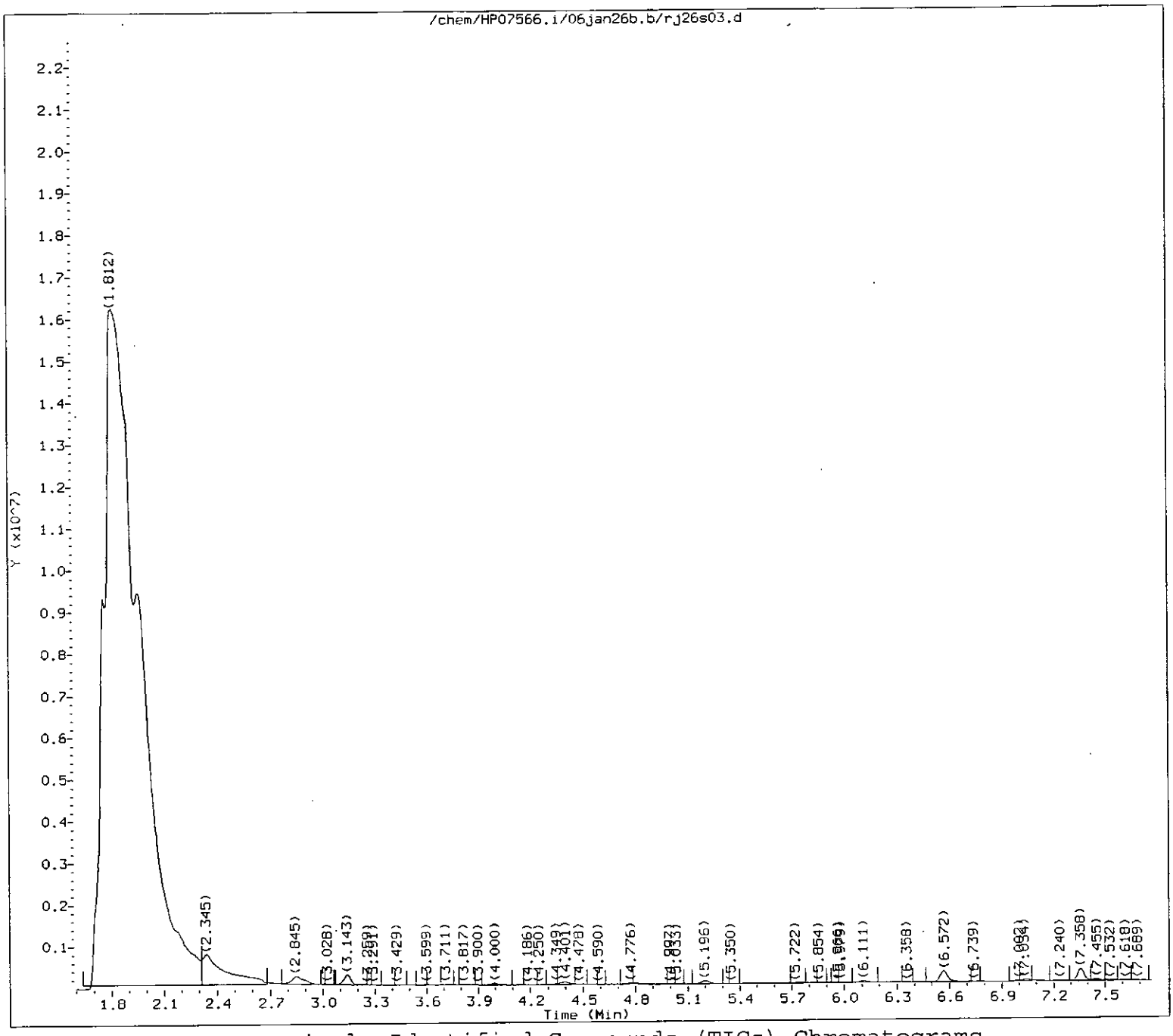
Date, time and analyst ID of latest file update: 26-Jan-2006 22:21 jml01693

Sample Name: 6020- Lab Sample ID: 4692566

Chromatogram Start Time (min.): 1.594
Chromatogram End Time (min.): 15.750

8894

JMB 1/26/06



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP07566.i/06jan26b.b/rj26s03.d Instrument ID: HP07566.i
Injection date and time: 26-JAN-2006 20:01 Analyst ID: JML01693

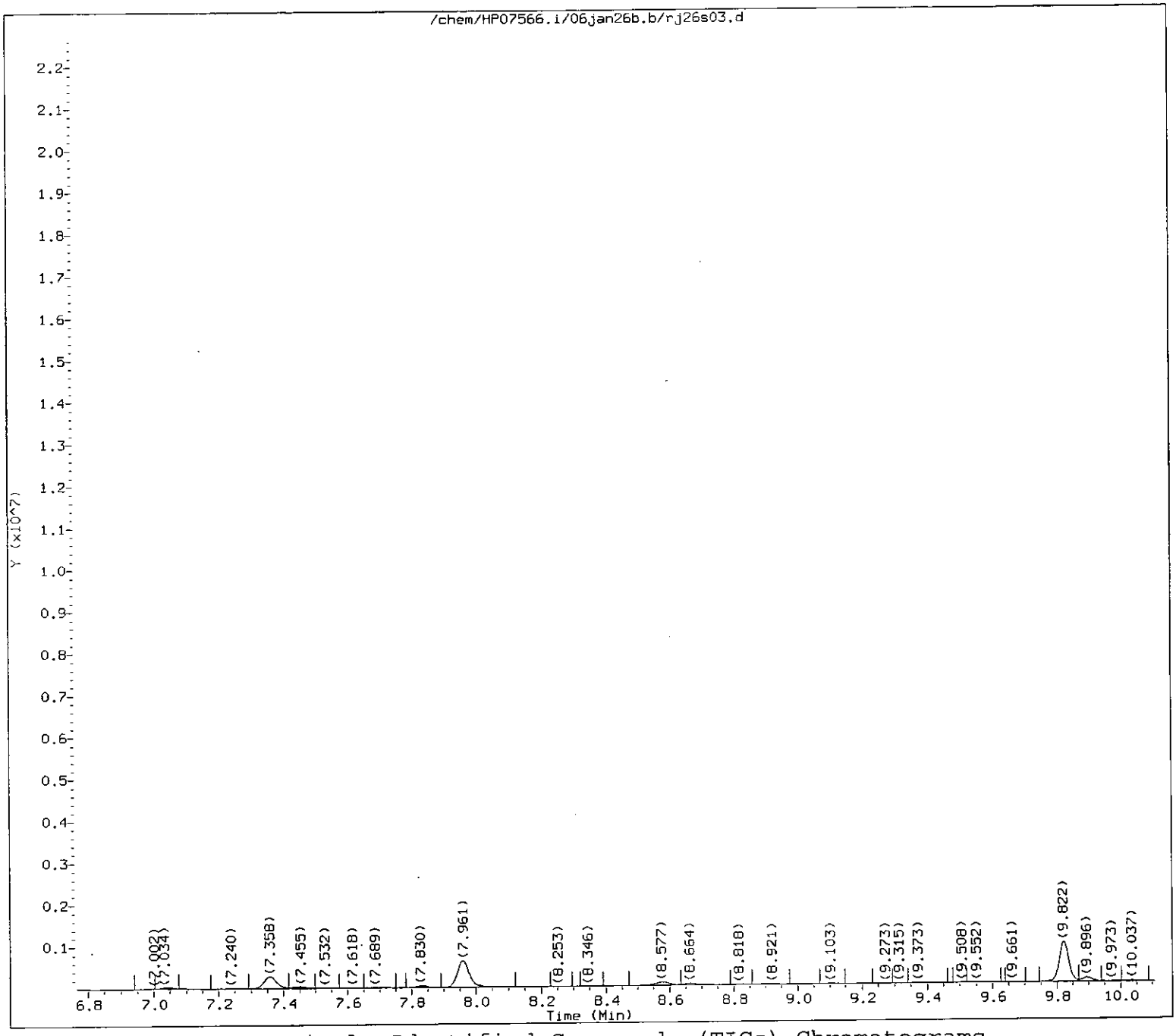
Date, time and analyst ID of latest file update: 26-Jan-2006 22:21 jml01693

Sample Name: 6020- Lab Sample ID: 4692566

Internal Standard referenced: Bromochloromethane at 6.566 minutes
Chromatogram Start Time (min.): 1.594
Chromatogram End Time (min.): 7.264

0095

JML 1693 1/26/06



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP07566.i/06jan26b.b/rj26s03.d Instrument ID: HP07566.i
Injection date and time: 26-JAN-2006 20:01 Analyst ID: JML01693

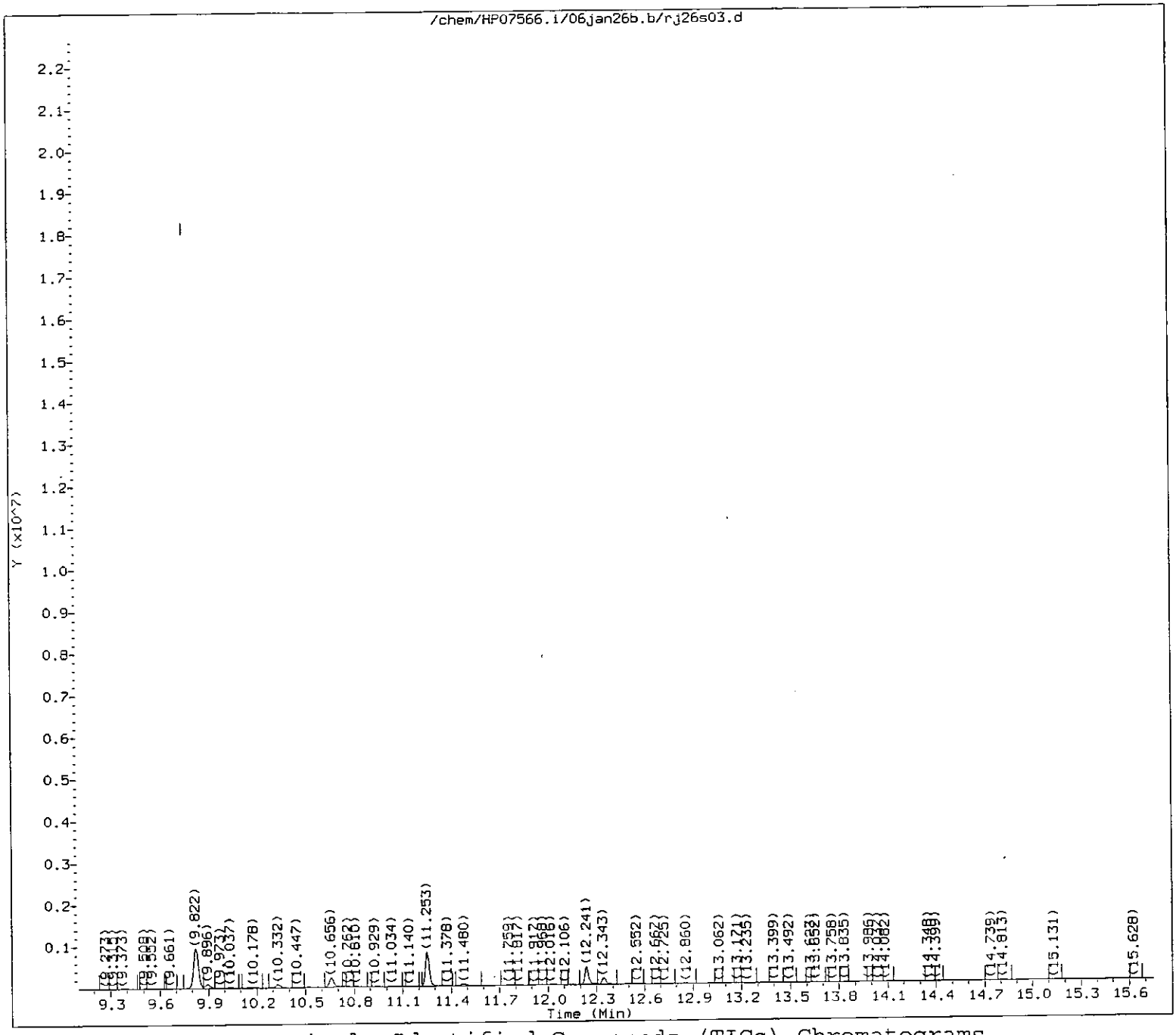
Date, time and analyst ID of latest file update: 26-Jan-2006 22:21 jml01693

Sample Name: 6020- Lab Sample ID: 4692566

Internal Standard referenced: 1,4-Difluorobenzene at 7.961 minutes
Chromatogram Start Time (min.): 7.264
Chromatogram End Time (min.): 9.607

0096

JMB 1/26/06



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP07566.i/06jan26b.b/rj26s03.d Instrument ID: HP07566.i
Injection date and time: 26-JAN-2006 20:01 Analyst ID: JML01693

Date, time and analyst ID of latest file update: 26-Jan-2006 22:21 jml01693

Sample Name: 6020- Lab Sample ID: 4692566

Internal Standard referenced: Chlorobenzene-d5 at 11.253 minutes
Chromatogram Start Time (min.): 9.607
Chromatogram End Time (min.): 15.750

TMB 1/24/06

Lancaster Laboratories

Data file : /chem/HP07566.i/06jan26b.b/rj26s03.d
Lab Smp Id: 4692566 Client Smp ID: 6020-
Inj Date : 26-JAN-2006 20:01
Operator : JML01693 Inst ID: HP07566.i
Smp Info : 6020-;4692566;2;0;;
Misc Info : 7157.sub;R060261AA;5.78;;5;;rj26b01;193B;
Comment : Max. number of TICs to report is 31, 11 TICs were found initially.
Method : /chem/HP07566.i/06jan26b.b/ROLM32SL.m
Meth Date : 26-Jan-2006 21:56 jml01693 Quant Type: ISTD
Cal Date : 26-JAN-2006 16:59 Cal File: rj26c01.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 7157.sub
Target Version: 3.50
Processing Host: d21cs04

Concentration Formula: Amt * DF * (Vt/Ws) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	5.00000	Purge Volume
Ws	5.78000	Soil Weight

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 43 Bromochloromethane	6.566	807544	50.000
* 58 1,4-Difluorobenzene	7.961	1668576	50.000
* 91 Chlorobenzene-d5	11.253	1448109	50.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ug/L)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
2.345	6948555	430.227147	372.1688	0		0	43

JML 1/26/06

8090

RT	AREA	CONCENTRATIONS ON-COL(ug/L)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
2.845	939808	58.1892053	50.33668	0		0	43
Pentane				CAS #: 109-66-0			
3.143	672882	41.6622066	36.03997	90	NIST98.1	4653	43
Unknown alkane				CAS #:			
4.401	202477	12.5365975	10.84481	0		0	43
Unknown alkane				CAS #:			
5.196	247453	15.3213075	13.25373	0		0	43
Unknown hydrocarbon				CAS #:			
6.111	121273	7.50873743	6.4954	0		0	43
Unknown alkane				CAS #:			
7.034	94636	5.85947837	5.0688	0		0	43
Unknown hydrocarbon				CAS #:			
8.577	257832	7.72611407	6.6835	0		0	58
Unknown siloxane				CAS #:			
10.332	181060	6.25161524	5.4080	0		0	91(L)
Unknown				CAS #:			
10.656	449290	15.5129968	13.41955	0		0	91
Unknown siloxane				CAS #:			
12.343	284749	9.83174852	8.5050	0		0	91

QC Flag Legend

L - Operator selected an alternate library search match.

JWP 1/26/06

8899

Data File: /chem/HP07566.i/06jan26b.b/rj26s03.d

Date : 26-JAN-2006 20:01

Client ID: 6020-

Instrument: HP07566.i

Sample Info: 6020-;4692566;2;0;;

Operator: JML01693

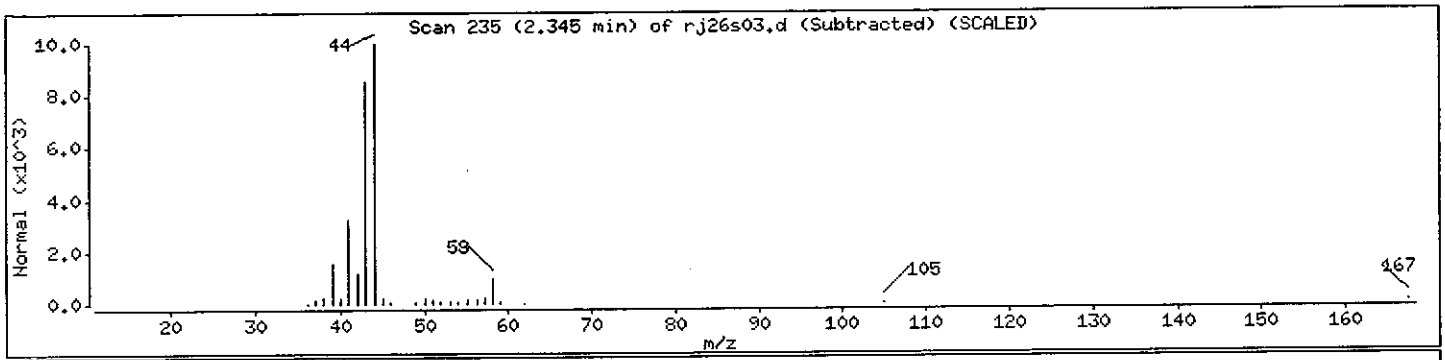
Column phase: DB-624

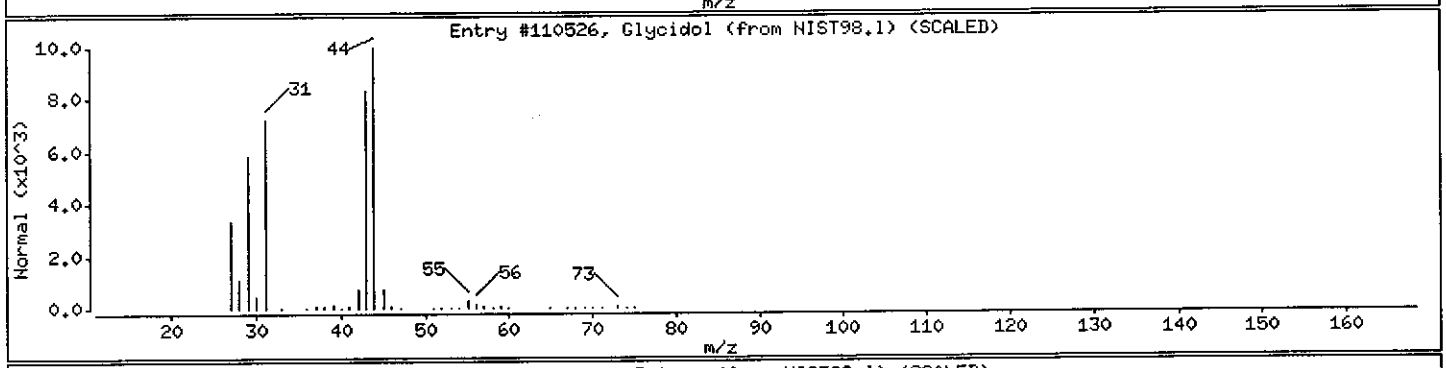
Column diameter: 0.25

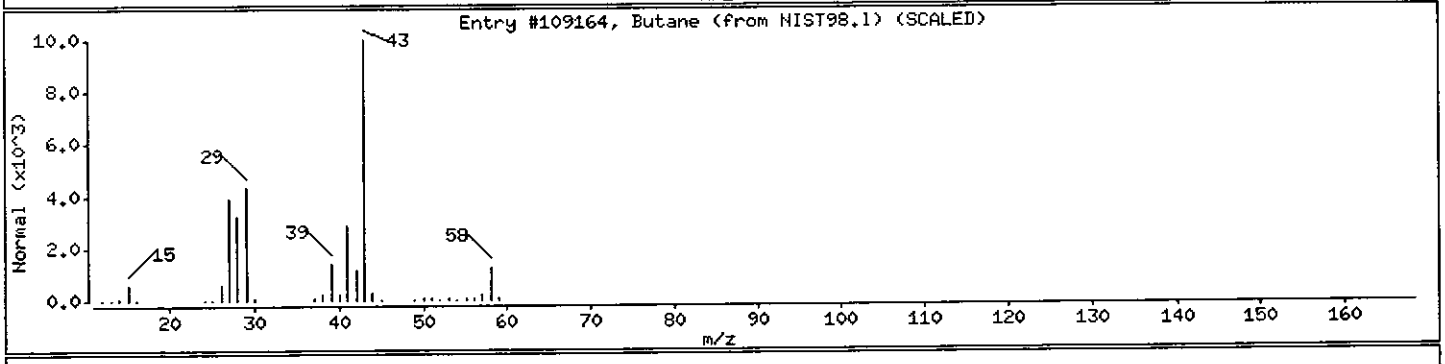
Review Code:

JML 1/26/06

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Glycidol	556-52-5	NIST98.1	110526	40	C3H6O2	74
Butane	106-97-8	NIST98.1	109164	25	C4H10	58







0100

Data File: /chem/HP07566.i/06jan26b.b/rj26s03.d

Date : 26-JAN-2006 20:01

Client ID: 6020-

Instrument: HP07566.i

Sample Info: 6020-;4692566;2;0;;

Operator: JML01693

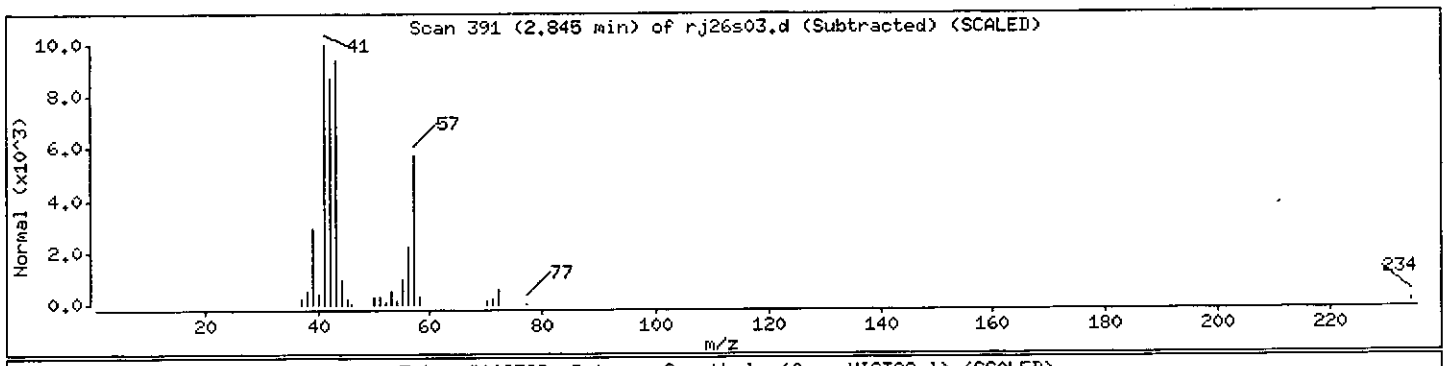
Column phase: DB-624

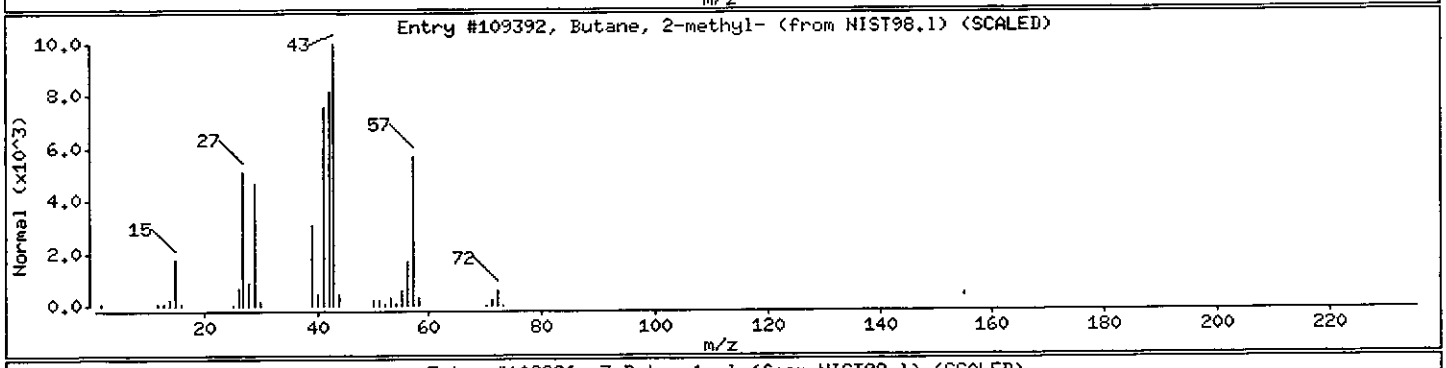
Column diameter: 0.25

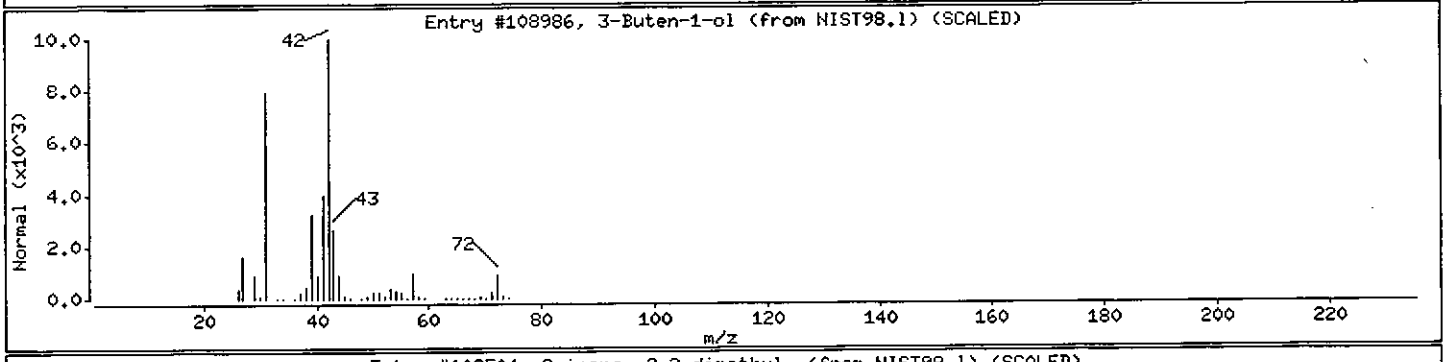
Review Code:

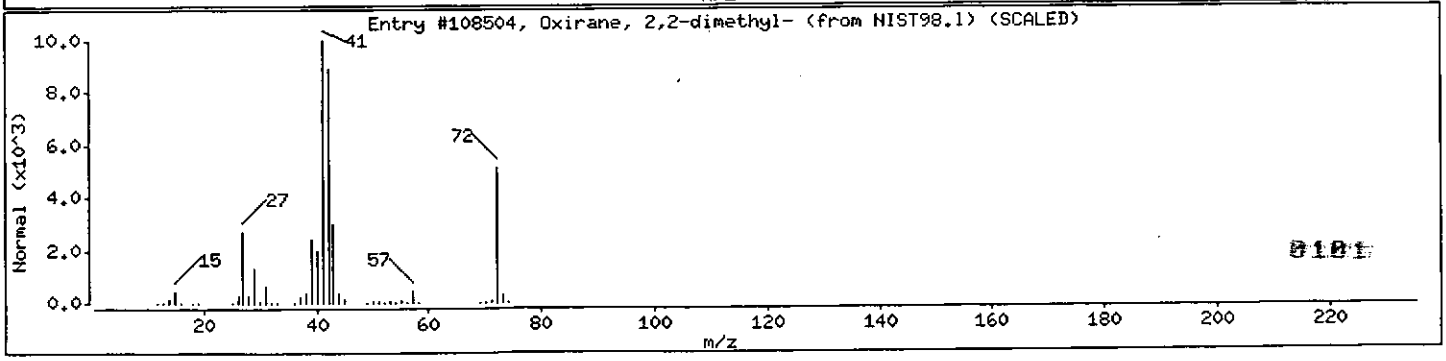
JML 1/26/06

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Butane, 2-methyl-	78-78-4	NIST98.1	109392	86	C5H12	72
3-Buten-1-ol	627-27-0	NIST98.1	108986	50	C4H8O	72
Oxirane, 2,2-dimethyl-	558-30-5	NIST98.1	108504	42	C4H8O	72









Data File: /chem/HP07566.i/06jan26b.b/rj26s03.d

Date : 26-JAN-2006 20:01

Client ID: 6020-

Instrument: HP07566.i

Sample Info: 6020-;4692566;2;0;;

Operator: JML01693

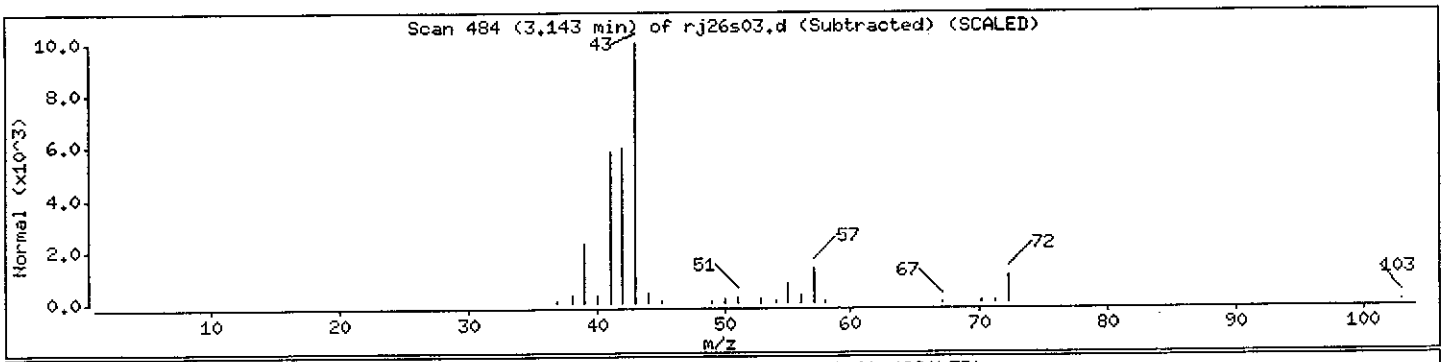
Column phase: DB-624

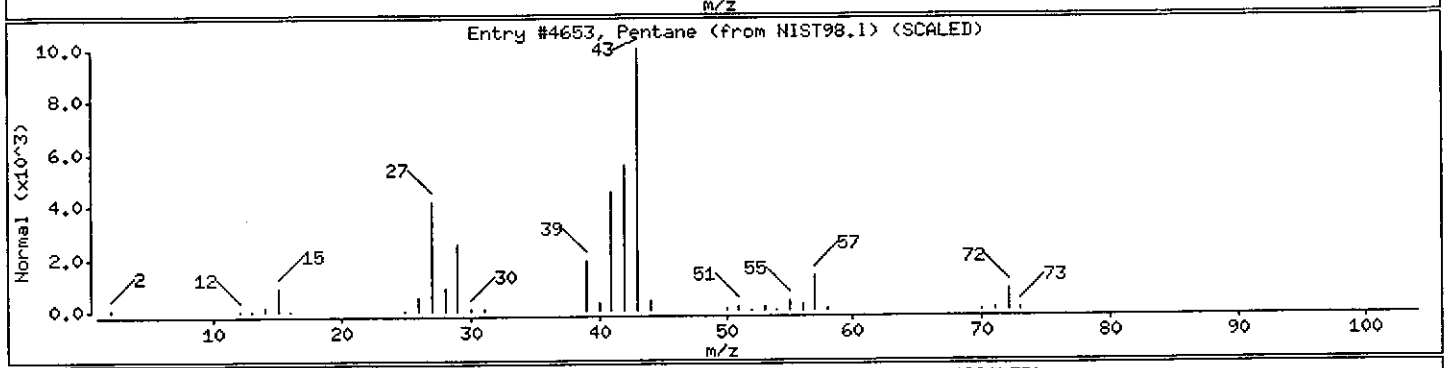
Column diameter: 0.25

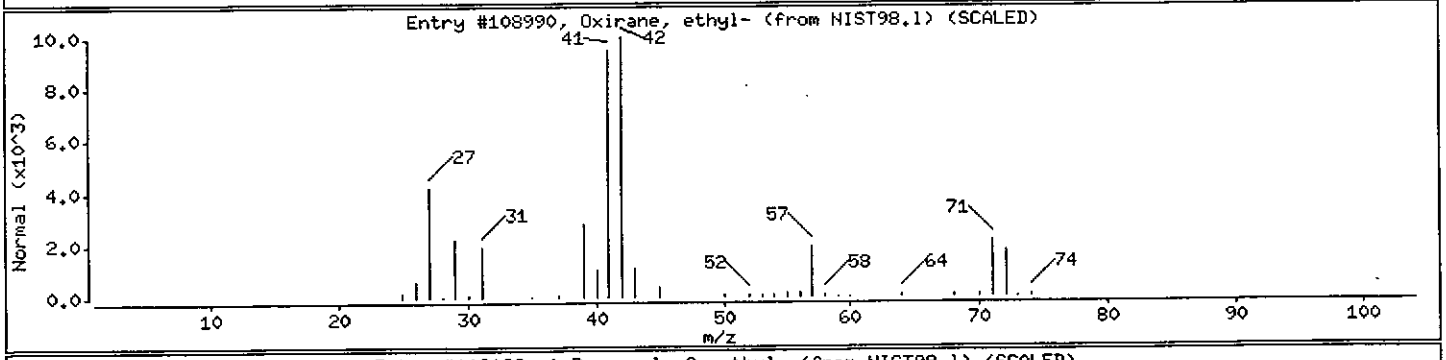
Review Code:

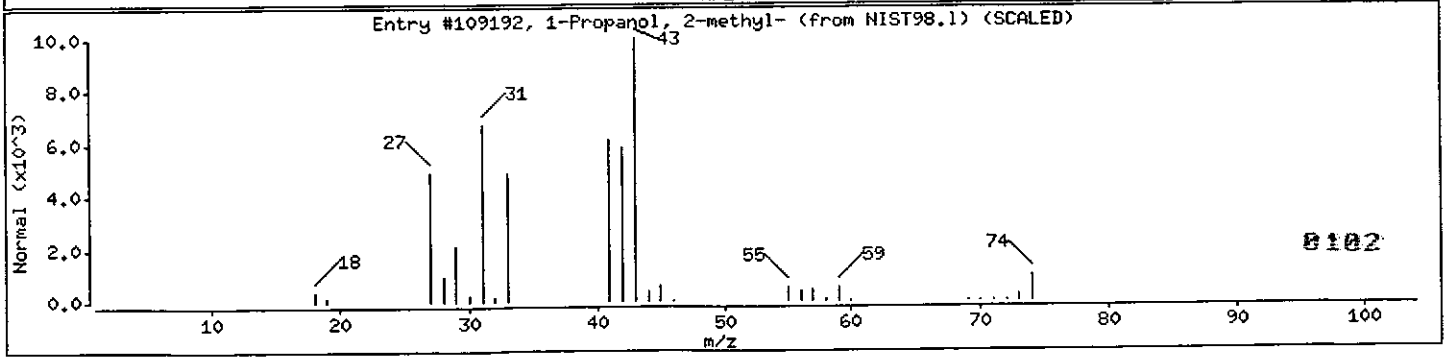
JML 1/26/06

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Pentane	109-66-0	NIST98.1	4653	90	C5H12	72
Oxirane, ethyl-	106-88-7	NIST98.1	108990	50	C4H8O	72
1-Propanol, 2-methyl-	78-83-1	NIST98.1	109192	39	C4H10O	74









0102

Data File: /chem/HP07566.i/06jan26b.b/rj26s03.d

Date : 26-JAN-2006 20:01

Client ID: 6020-

Instrument: HP07566.i

Sample Info: 6020-;4692566;2;0;;

Operator: JML01693

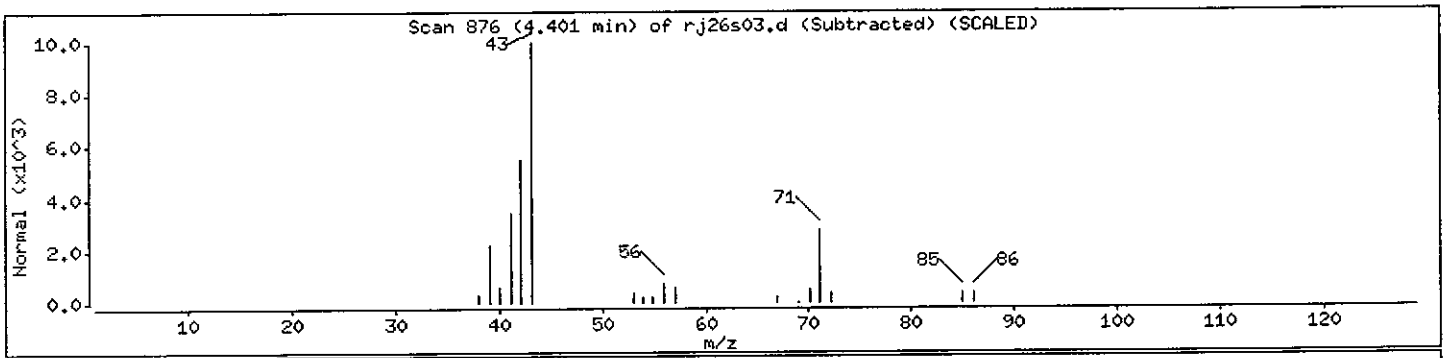
Column phase: DB-624

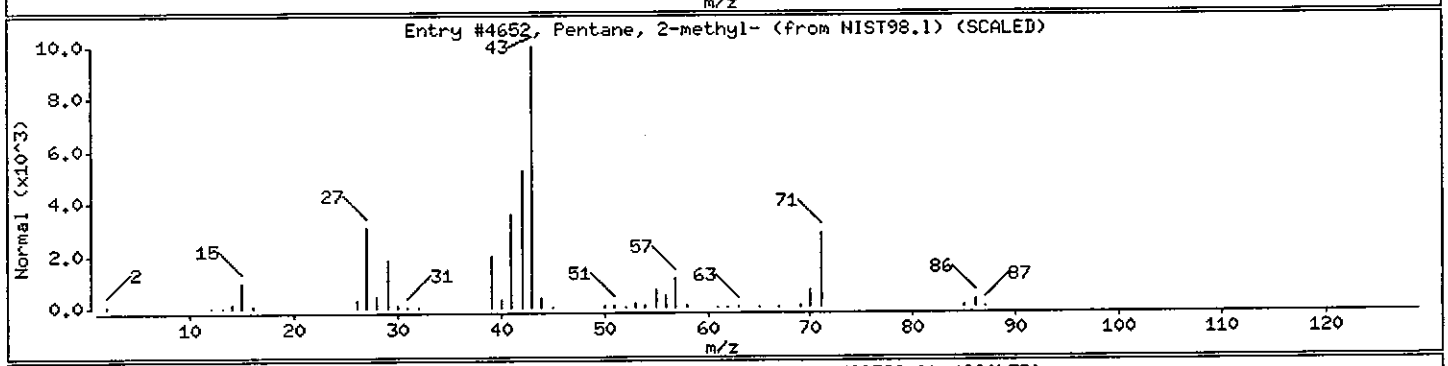
Column diameter: 0.25

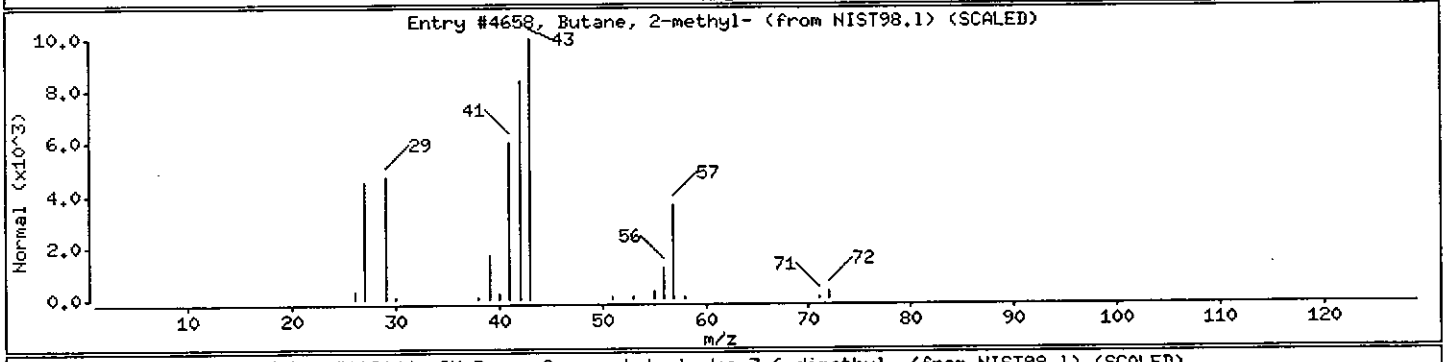
Review Code:

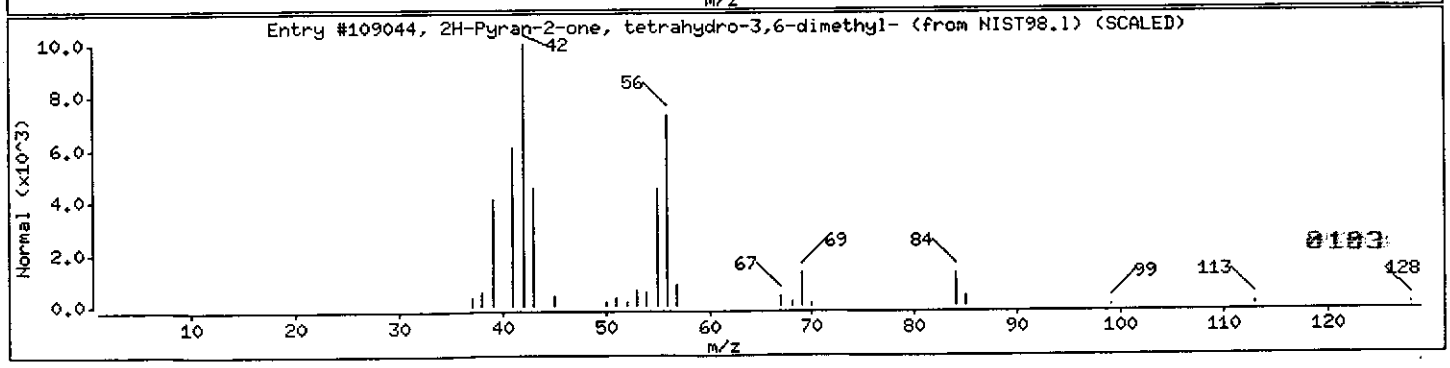
JML 1/26/06

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Pentane, 2-methyl-	107-83-5	NIST98.1	4652	72	C6H14	86
Butane, 2-methyl-	78-78-4	NIST98.1	4658	32	C5H12	72
2H-Pyran-2-one, tetrahydro-3,6-dimethyl-	3720-22-7	NIST98.1	109044	23	C7H12O2	128









0103

Data File: /chem/HP07566.i/06jan26b.b/rj26s03.d

Date : 26-JAN-2006 20:01

Client ID: 6020-

Instrument: HP07566.i

Sample Info: 6020-;4692566;2;0;;

Operator: JML01693

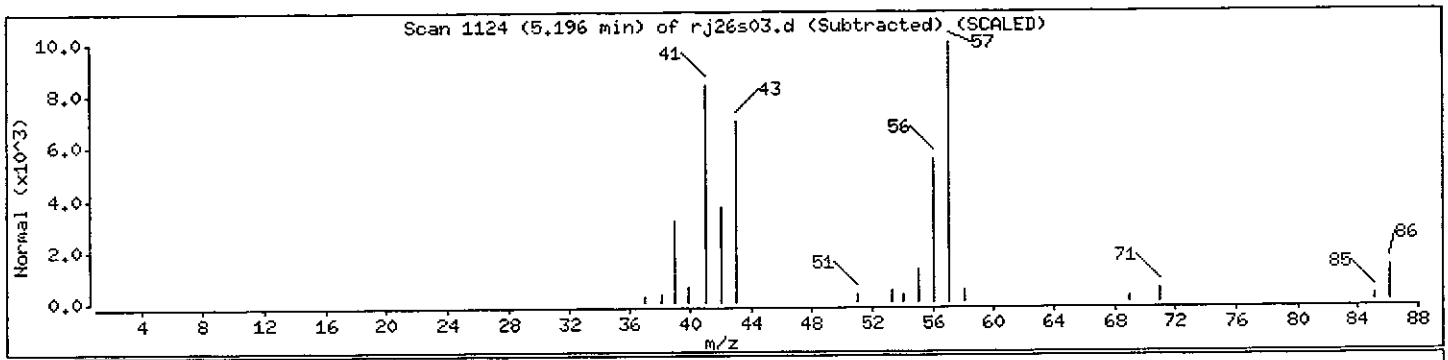
Column phase: DB-624

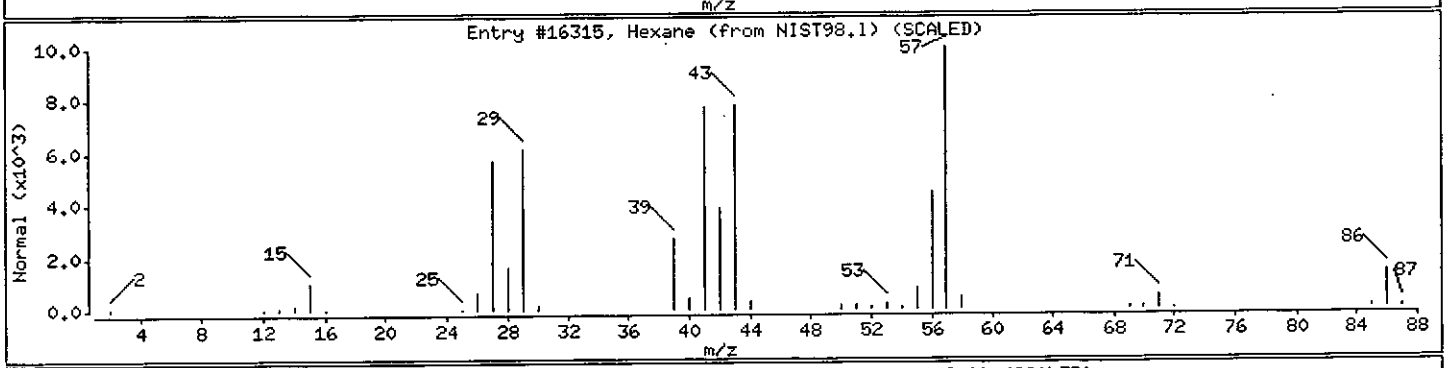
Column diameter: 0.25

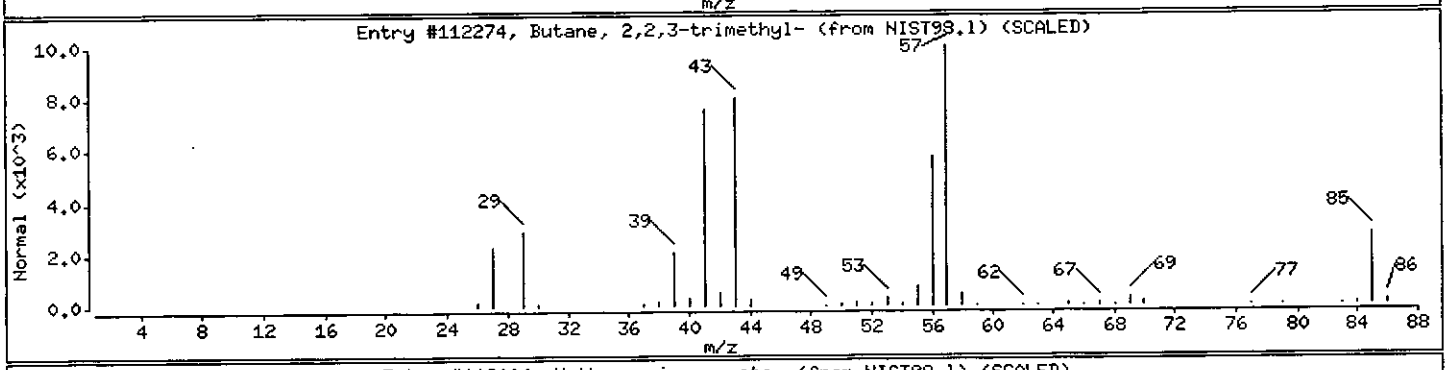
Review Code:

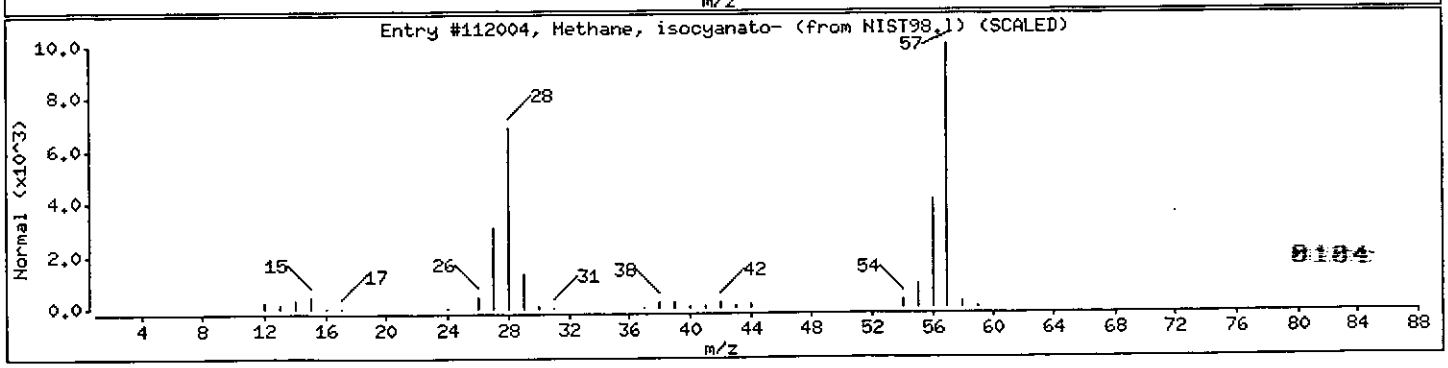
JML 1/26/06

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Hexane	110-54-3	NIST98.1	16315	91	C6H14	86
Butane, 2,2,3-trimethyl-	464-06-2	NIST98.1	112274	59	C7H16	100
Methane, isocyanato-	624-83-9	NIST98.1	112004	38	C2H3NO	57









Data File: /chem/HP07566.i/06jan26b.b/rj26s03.d

Date : 26-JAN-2006 20:01

Client ID: 6020-

Instrument: HP07566.i

Sample Info: 6020-;4692566;2;0;;

Operator: JML01693

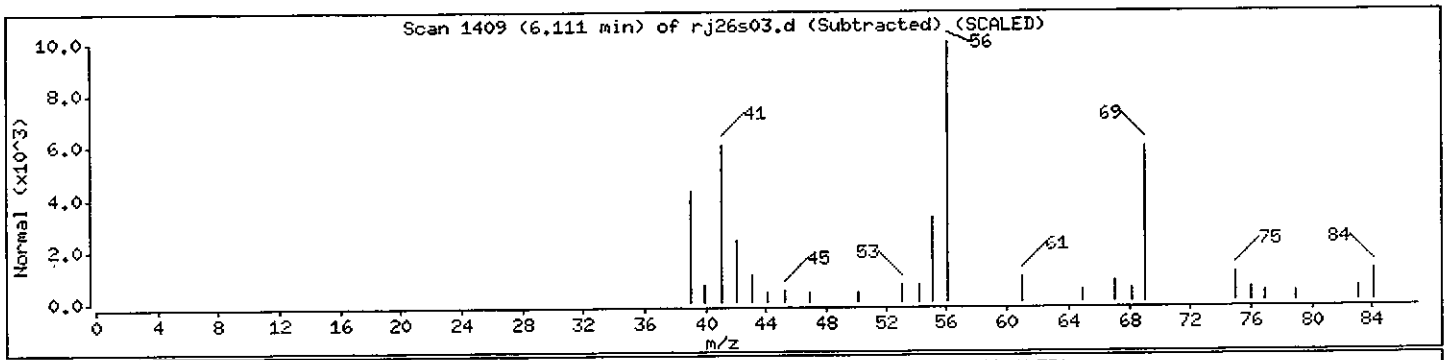
Column phase: DB-624

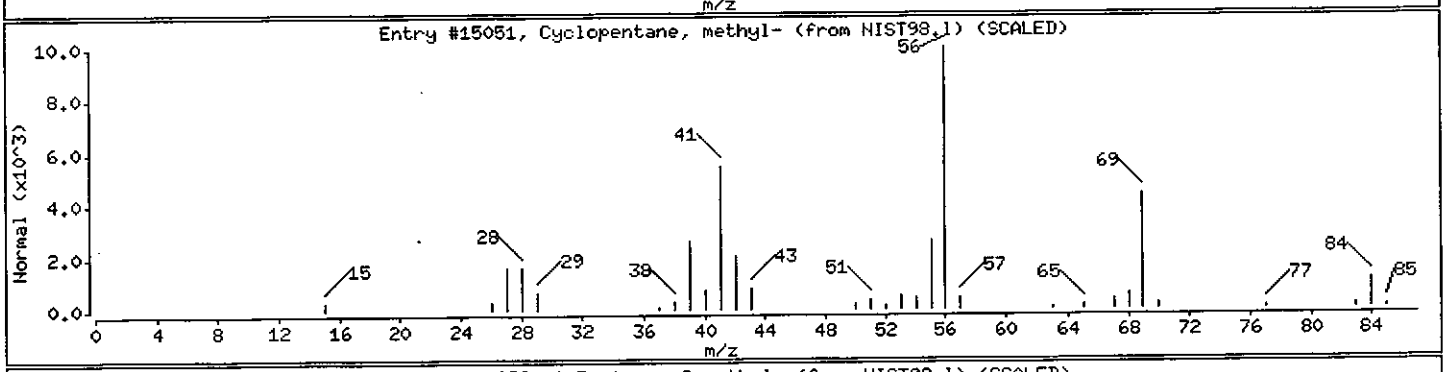
Column diameter: 0.25

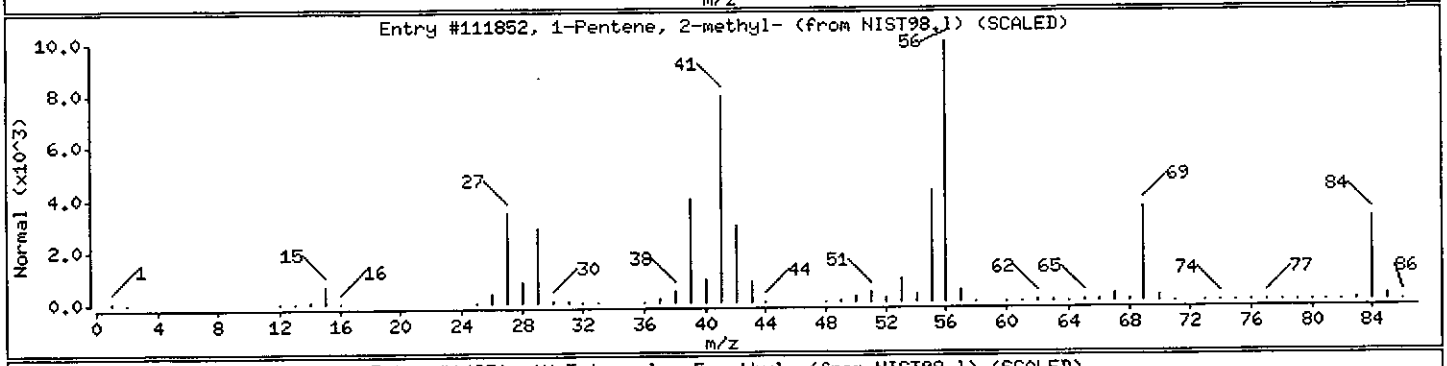
Review Code:

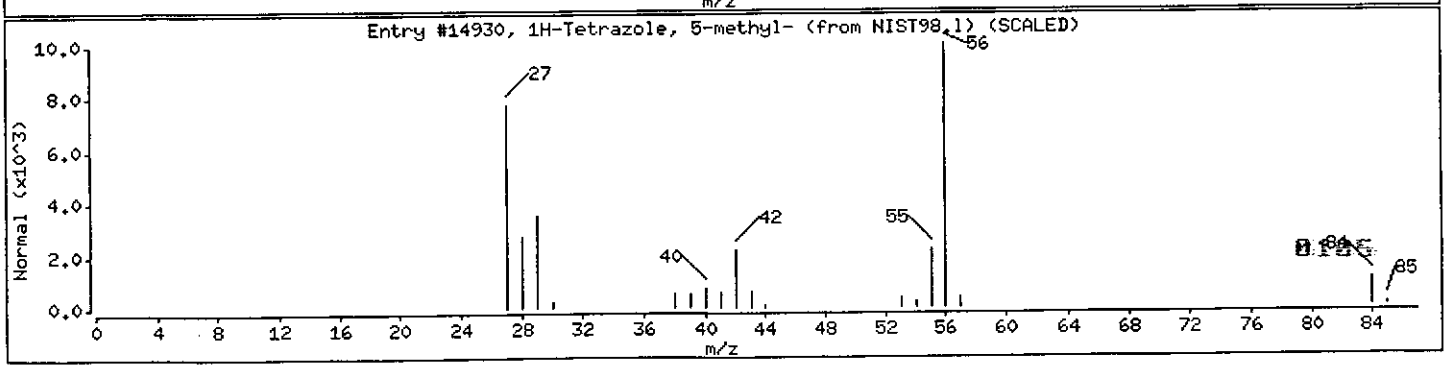
TWG 1/26/06

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclopentane, methyl-	96-37-7	NIST98.1	15051	60	C6H12	84
1-Pentene, 2-methyl-	763-29-1	NIST98.1	111852	45	C6H12	84
1H-Tetrazole, 5-methyl-	4076-36-2	NIST98.1	14930	43	C2H4N4	84









Data File: /chem/HP07566.i/06jan26b.b/rj26s03.d

Date : 26-JAN-2006 20:01

Client ID: 6020-

Instrument: HP07566.i

Sample Info: 6020-;4692566;2;0;;

Operator: JML01693

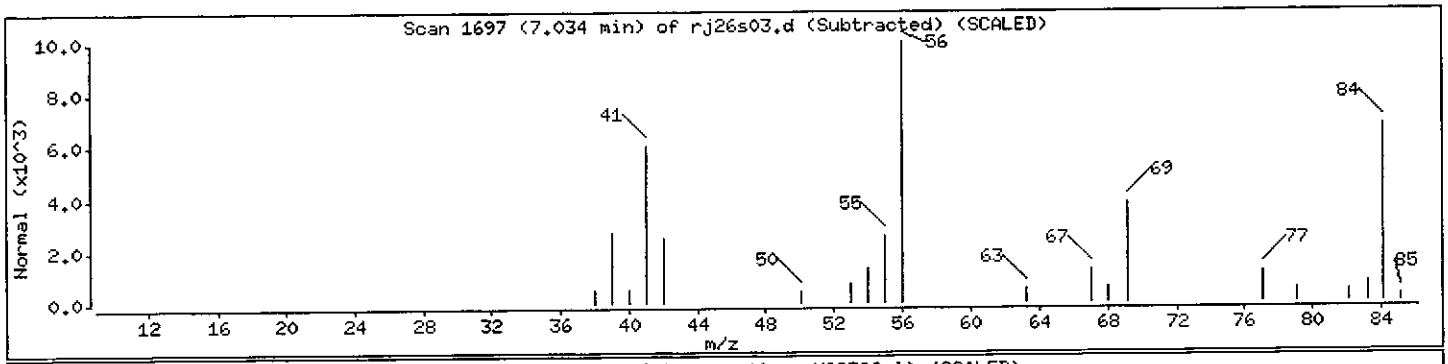
Column phase: DB-624

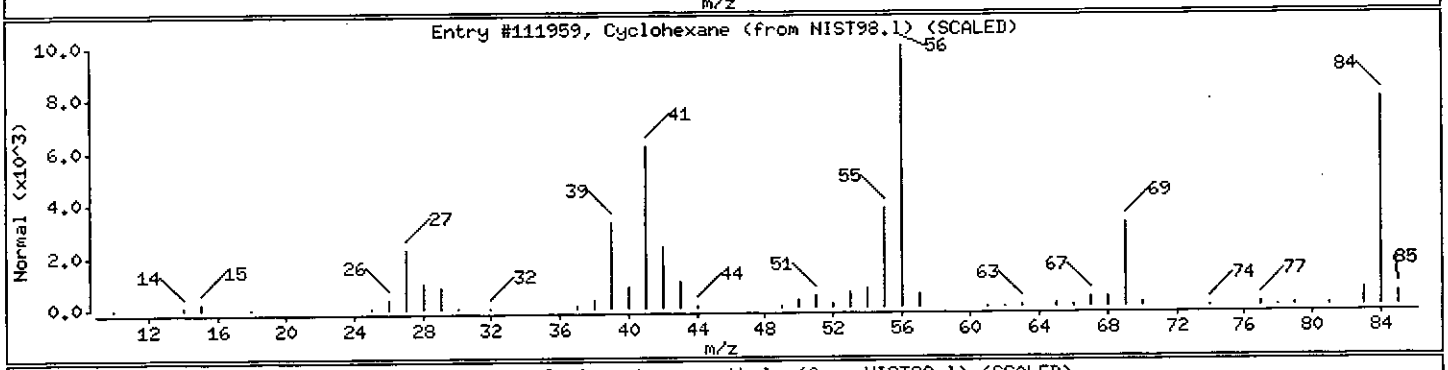
Column diameter: 0.25

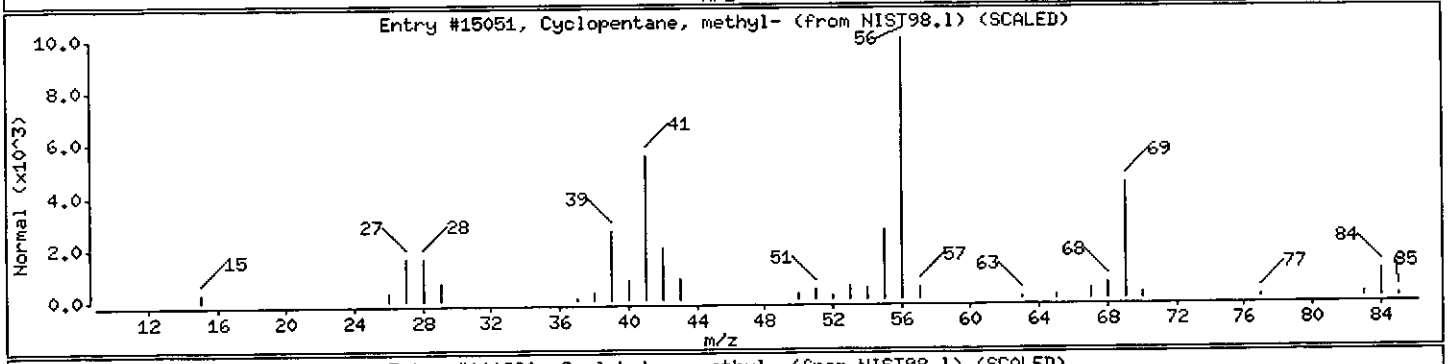
Review Code:

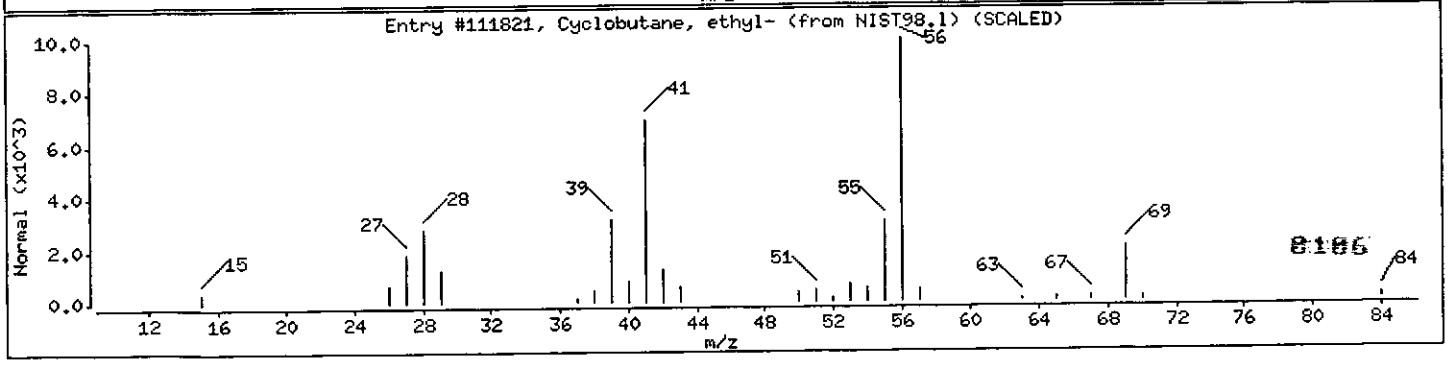
JML 1/26/06

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclohexane	110-82-7	NIST98.1	111959	83	C6H12	84
Cyclopentane, methyl-	96-37-7	NIST98.1	15051	50	C6H12	84
Cyclobutane, ethyl-	4806-61-5	NIST98.1	111821	43	C6H12	84









8186

Data File: /chem/HP07566.i/06jan26b.b/rj26s03.d

Date : 26-JAN-2006 20:01

Client ID: 6020-

Instrument: HP07566.i

Sample Info: 6020-;4692566;2;0;;

Operator: JML01693

Column phase: DB-624

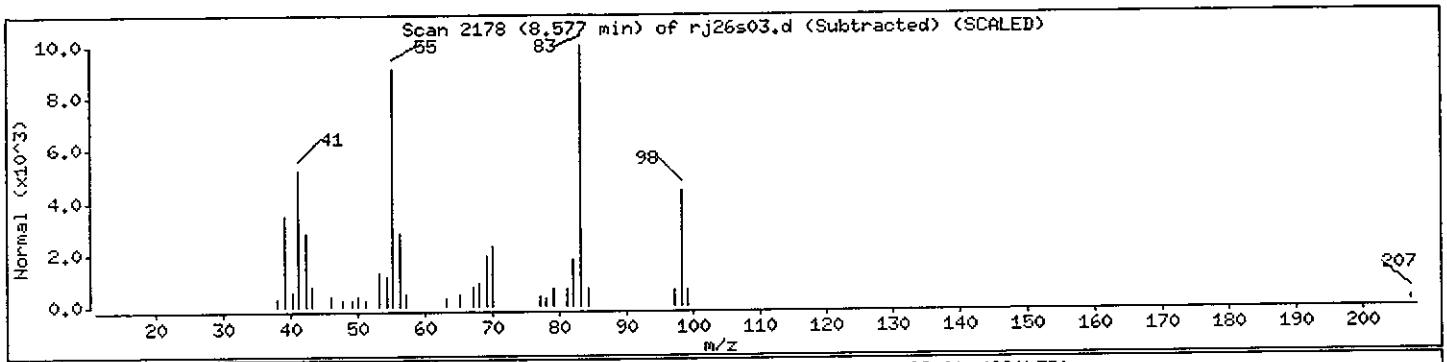
Column diameter: 0.25

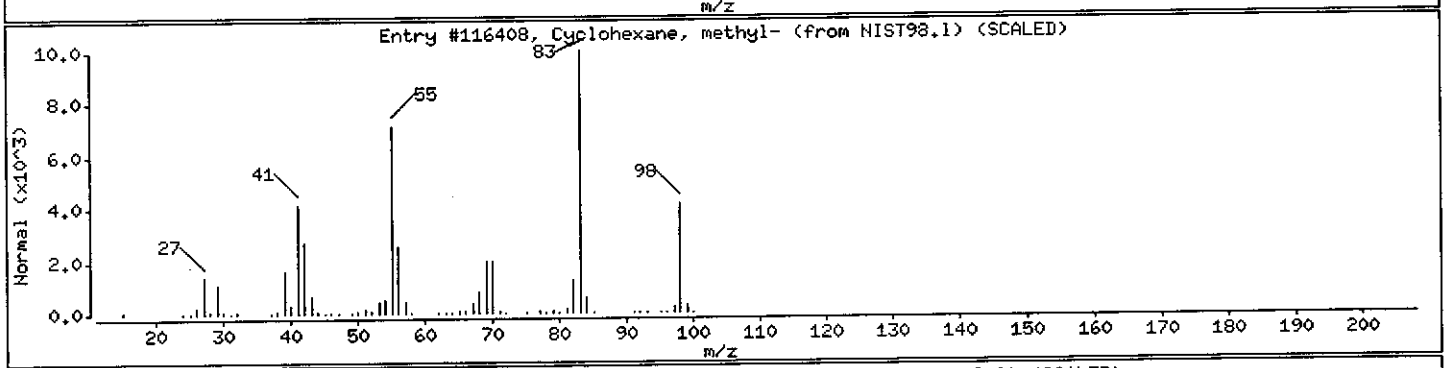
Review Code:

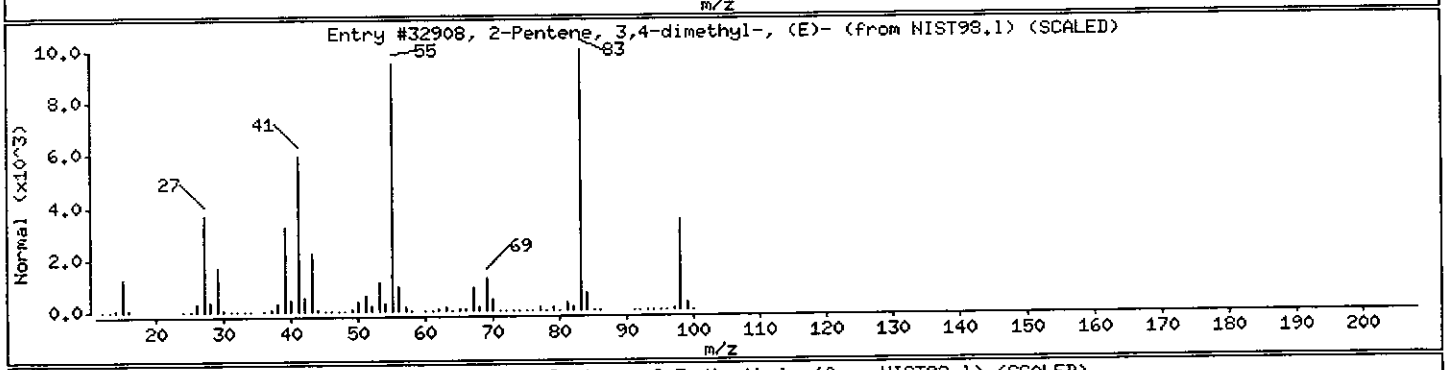
JML 1/26/06

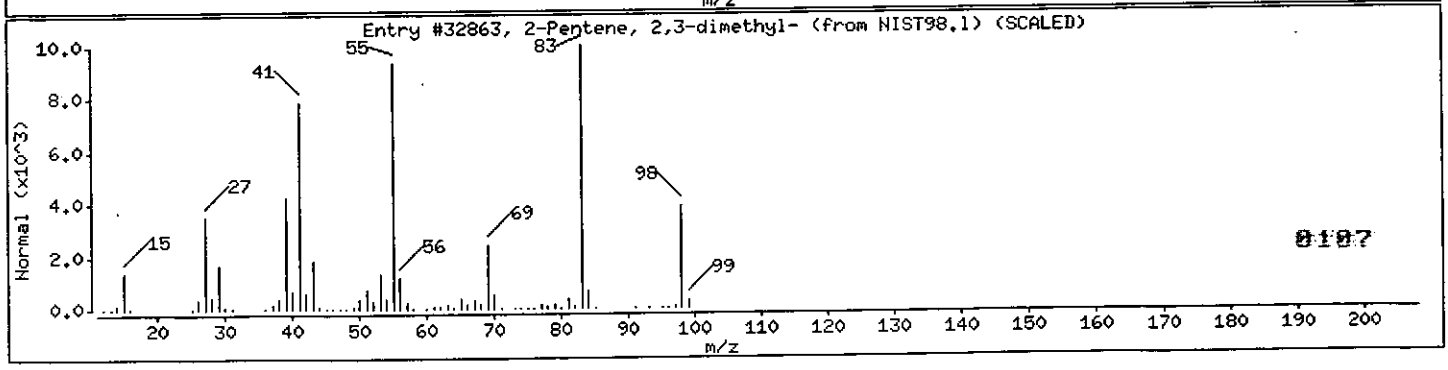
Library Search Compound Match

	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclohexane, methyl-	108-87-2	NIST98.1	116408	97	C7H14	98
2-Pentene, 3,4-dimethyl-, (E)-	4914-92-5	NIST98.1	32908	64	C7H14	98
2-Pentene, 2,3-dimethyl-	10574-37-5	NIST98.1	32863	58	C7H14	98









0187

Data File: /chem/HP07566.i/06jan26b.b/rj26s03.d

Date : 26-JAN-2006 20:01

Client ID: 6020-

Instrument: HP07566.i

Sample Info: 6020-;4692566;2;0;;

Operator: JML01693

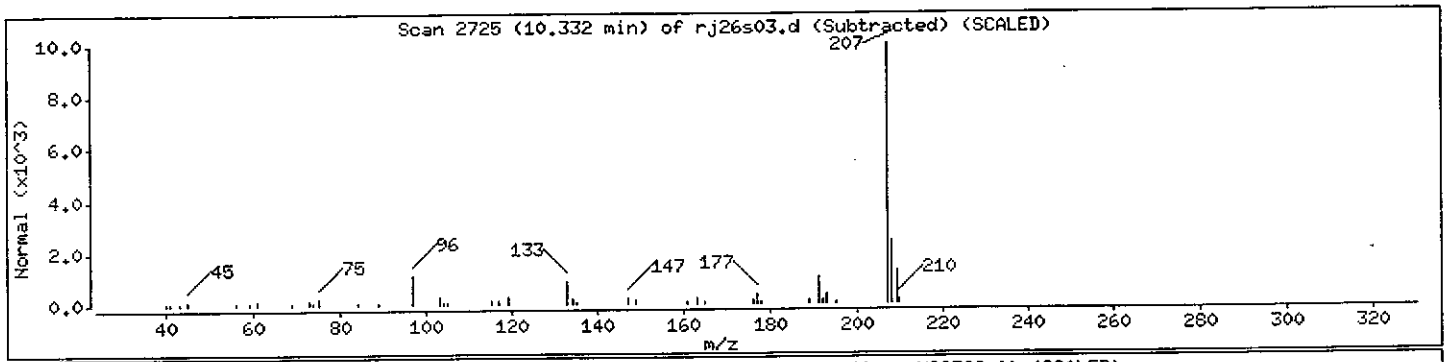
Column phase: DB-624

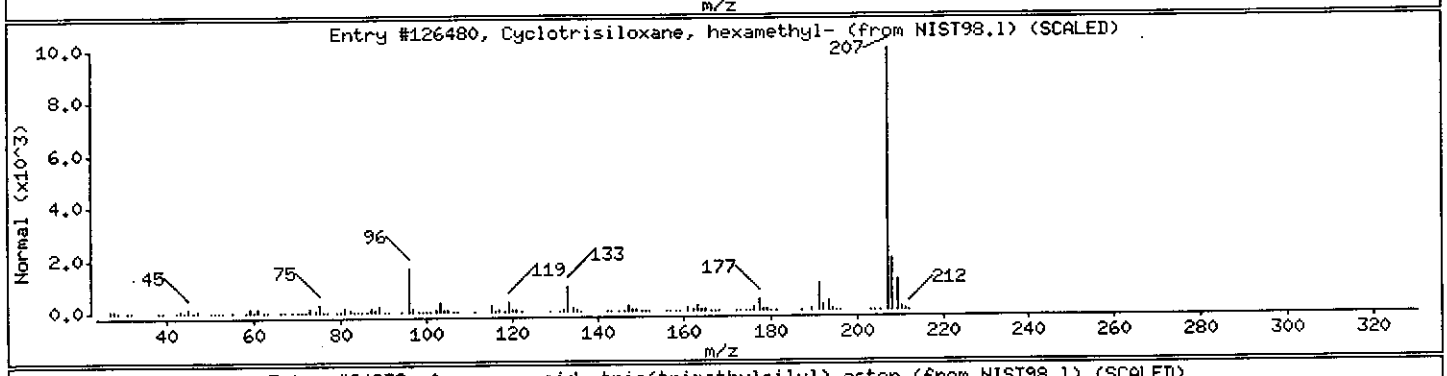
Column diameter: 0.25

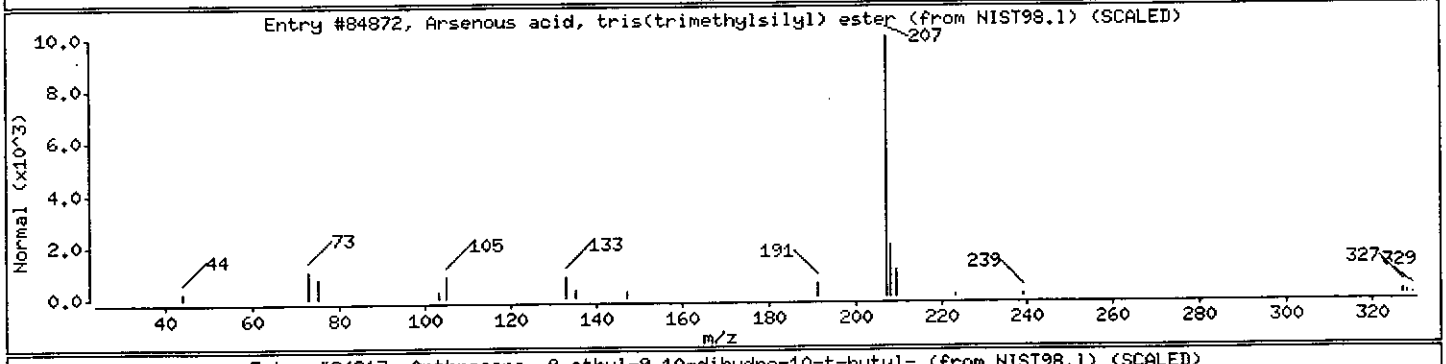
Review Code:

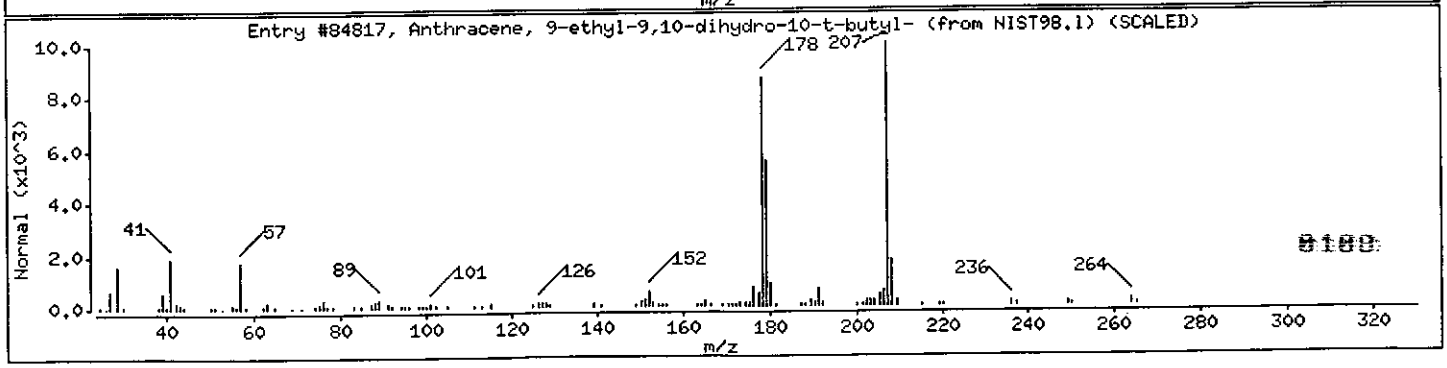
JML 1/26/06

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotrisiloxane, hexamethyl-	541-05-9	NIST98.1	126480	90	C6H18O3Si3	222
Arsenous acid, tris(trimethylsilyl) este	55429-29-3	NIST98.1	84872	64	C9H27AsO3Si3	342
Anthracene, 9-ethyl-9,10-dihydro-10-t-bu	1000154-57-7	NIST98.1	84817	39	C20H24	264









0100

Data File: /chem/HP07566.i/06jan26b.b/rj26s03.d

Date : 26-JAN-2006 20:01

Client ID: 6020-

Instrument: HP07566.i

Sample Info: 6020-;4692566;2;0;;

Operator: JML01693

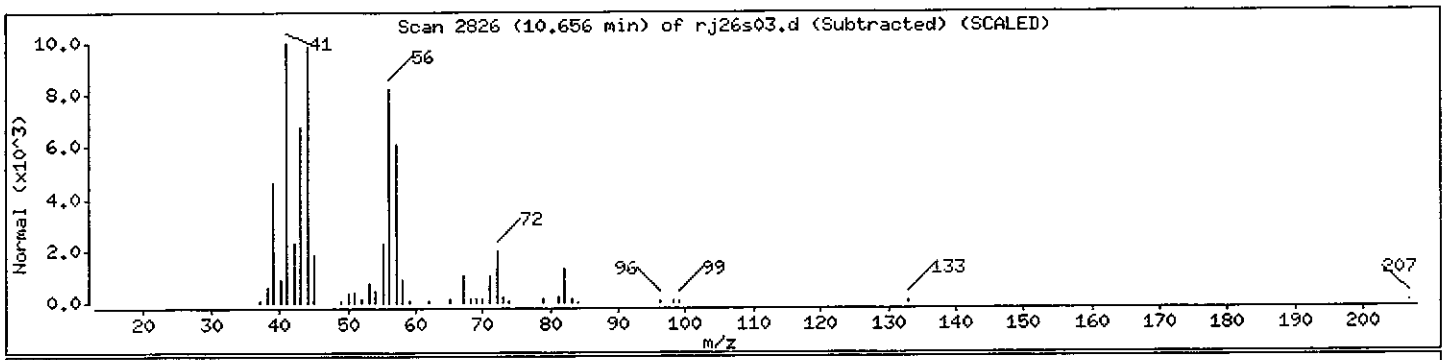
Column phase: DB-624

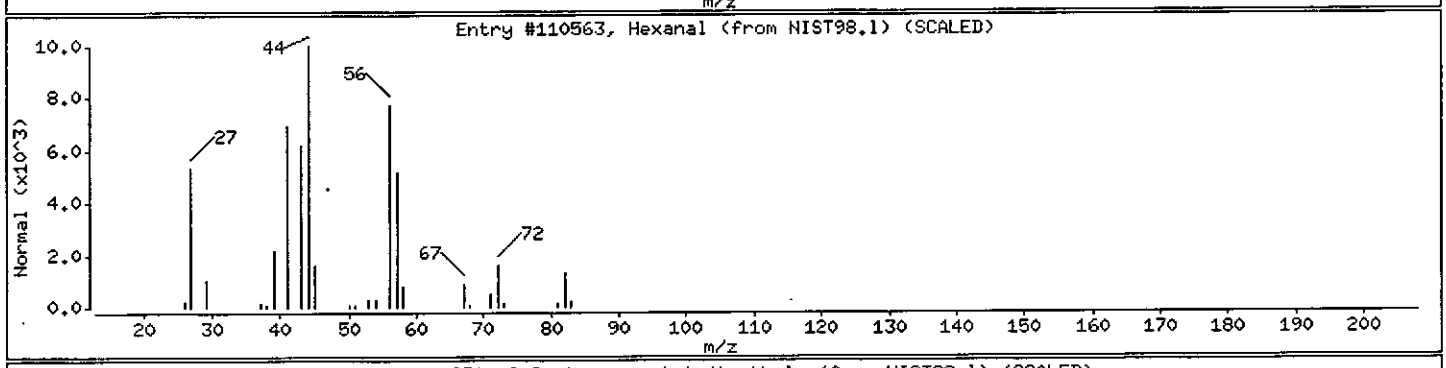
Column diameter: 0.25

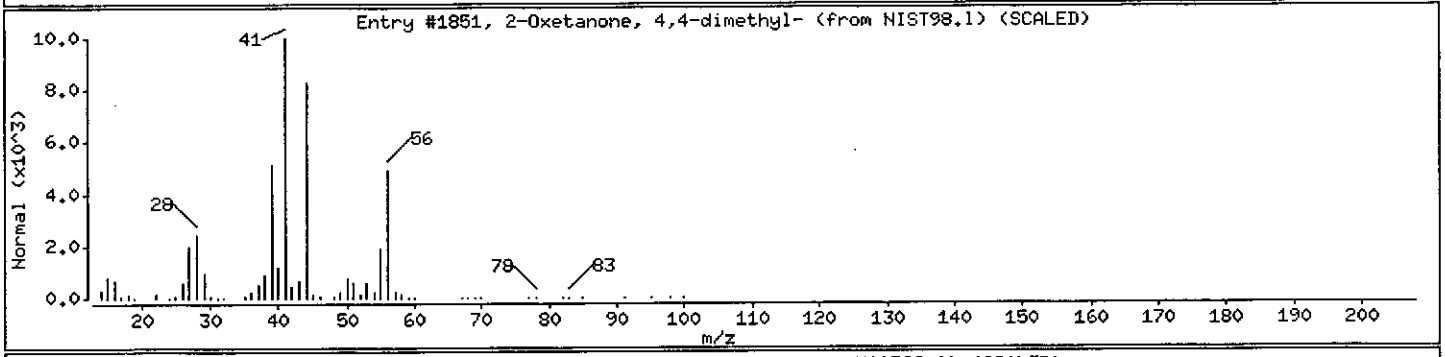
Review Code:

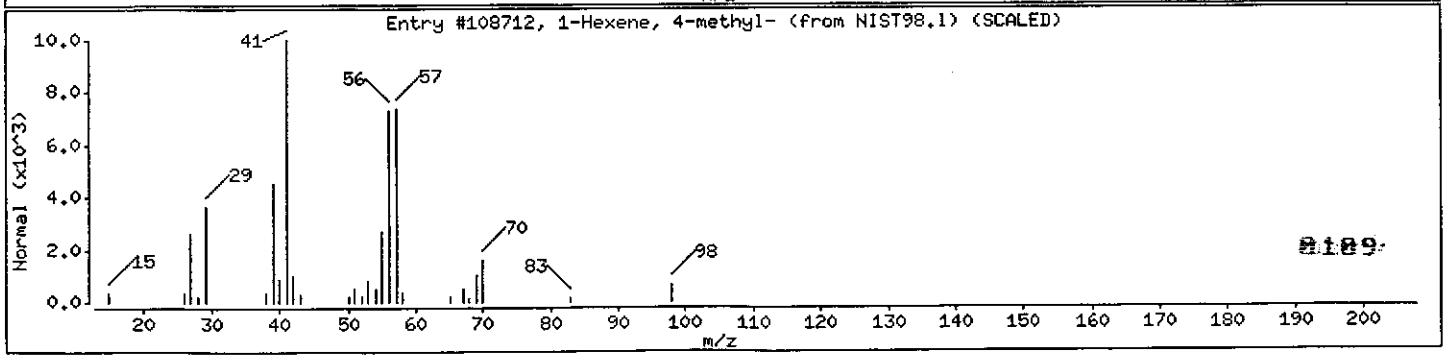
JML 1/26/06

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Hexanal	66-25-1	NIST98.1	110563	72	C6H12O	100
2-Oxetanone, 4,4-dimethyl-	1823-52-5	NIST98.1	1851	50	C5H8O2	100
1-Hexene, 4-methyl-	3769-23-1	NIST98.1	108712	35	C7H14	98









Data File: /chem/HP07566.i/06jan26b.b/rj26s03.d

Date : 26-JAN-2006 20:01

Client ID: 6020-

Instrument: HP07566.i

Sample Info: 6020-;4692566;2;0;;

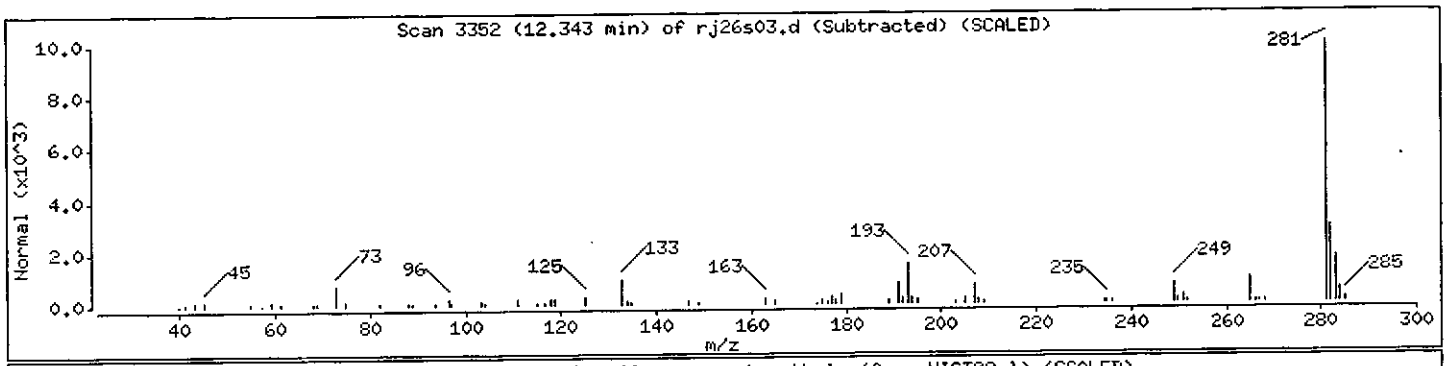
Operator: JHL01693

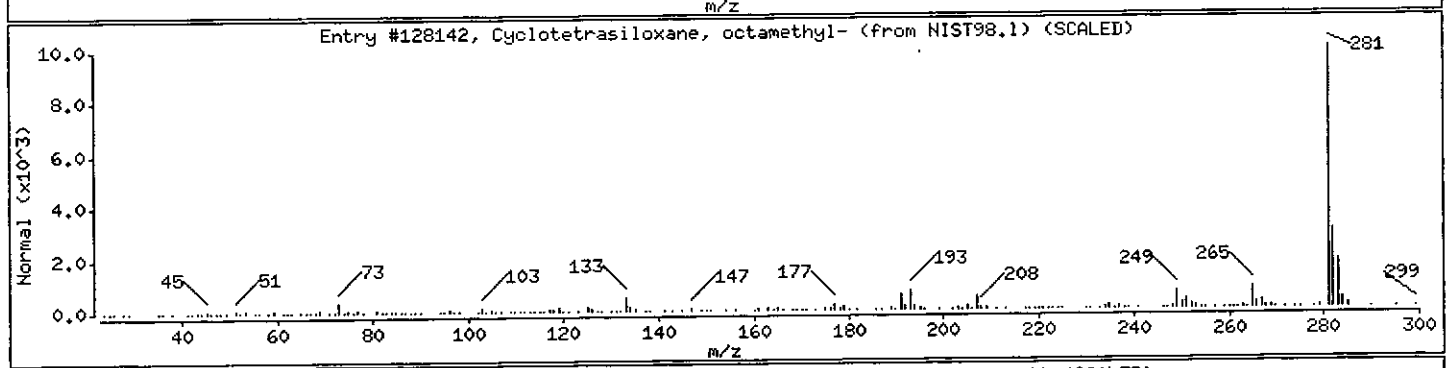
Column phase: DB-624

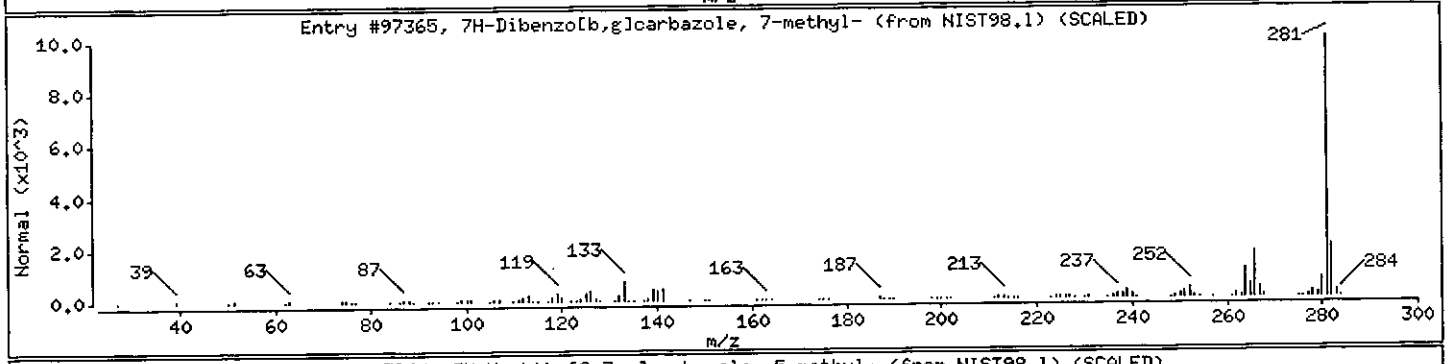
Column diameter: 0.25

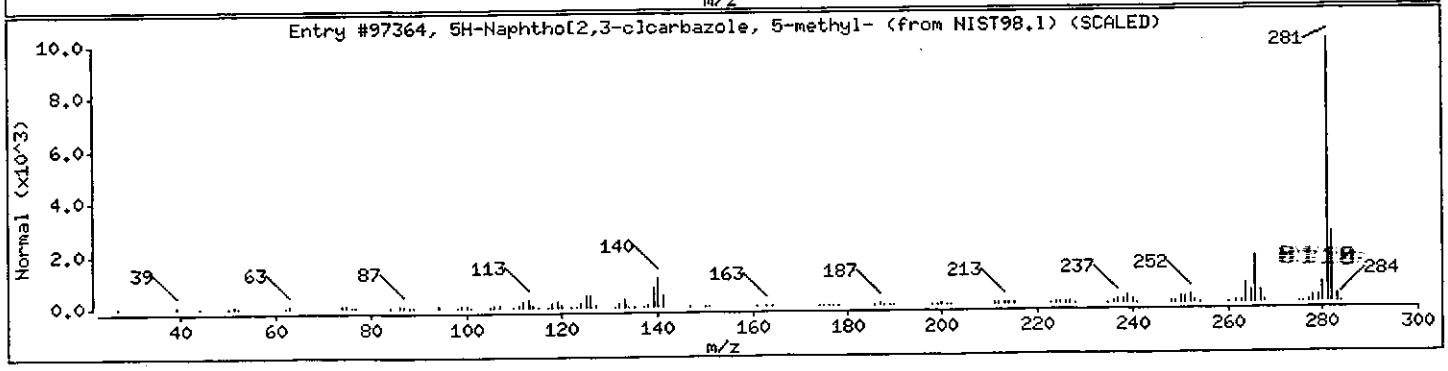
Review Code:

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotetrasiloxane, octamethyl-	556-67-2	NIST98.1	128142	80	C8H24O4Si4	296
7H-Dibenzo[b,g]carbazole, 7-methyl-	3557-49-1	NIST98.1	97365	64	C21H15N	281
5H-Naphtho[2,3-c]carbazole, 5-methyl-	100025-44-3	NIST98.1	97364	40	C21H15N	281









1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6014-

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) SOIL Lab Sample ID: 4692567

Sample wt/vol: 6.17 (g/mL) g Lab File ID: HP07566.i/06jan26b.b/rj26s04.d

Level: (low/med) LOW Date Received: 01/20/06

Moisture: not dec. 12 Date Analyzed: 01/26/06

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MDL ug/Kg	Q
74-87-3	Chloromethane	2	U
75-01-4	Vinyl Chloride	2	U
74-83-9	Bromomethane	3	U
75-00-3	Chloroethane	3	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	9	J
75-15-0	Carbon Disulfide	7	J
75-09-2	Methylene Chloride	2	U
75-34-3	1,1-Dichloroethane	0.9	U
540-59-0	1,2-Dichloroethene (Total)	2	U
78-93-3	2-Butanone	6	U
67-66-3	Chloroform	0.9	U
71-55-6	1,1,1-Trichloroethane	0.9	U
56-23-5	Carbon Tetrachloride	0.9	U
71-43-2	Benzene	1	J
107-06-2	1,2-Dichloroethane	2	U
79-01-6	Trichloroethene	0.9	U
78-87-5	1,2-Dichloropropane	3	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	0.9	U
108-10-1	4-Methyl-2-Pentanone	3	U
108-88-3	Toluene	3	J
10061-02-6	trans-1,3-Dichloropropene	0.9	U
79-00-5	1,1,2-Trichloroethane	2	U
127-18-4	Tetrachloroethene	0.9	U
591-78-6	2-Hexanone	3	U
124-48-1	Dibromochloromethane	0.9	U
108-90-7	Chlorobenzene	0.9	U
100-41-4	Ethylbenzene	0.9	U
1330-20-7	Xylene (Total)	1	J

0111

FORM I VOA OLM03.0

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6014-

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) SOIL Lab Sample ID: 4692567

Sample wt/vol: 6.17 (g/mL) g Lab File ID: HP07566.i/06jan26b.b/rj26s04.d

Level: (low/med) LOW Date Received: 01/20/06

Moisture: not dec. 12 Date Analyzed: 01/26/06

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MDL ug/Kg	Q
100-42-5	Styrene	0.9	U
75-25-2	Bromoform	0.9	U
79-34-5	1,1,2,2-Tetrachloroethane	0.9	U

0112

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

6014-

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) SOIL Lab Sample ID: 4692567

Sample wt/vol: 6.17 (g/mL) g Lab File ID: HP07566.i/06jan26b.b/rj26s04.d

Level: (low/med) LOW Date Received: 01/20/06

% Moisture: not dec. 12 Date Analyzed: 01/26/06

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	2.34	270	J
2. 78-78-4	Butane, 2-methyl-	2.84	53	NJ
3. 109-66-0	Pentane	3.14	34	NJ
4.	Unknown alkane	4.38	10	J
5.	Unknown alkane	4.77	6	J
6. 110-54-3	Hexane	5.20	13	NJ
7.	Unknown alicyclic	6.11	6	J
8.	Unknown aliphatic	7.05	10	J
9. 108-87-2	Cyclohexane, methyl-	8.58	6	NJ
10.	Unknown siloxane	12.35	6	J B
11.				
12.				
13.				
14.				
15.				
16.				
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18.				
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28.				
29.				
30.				

0113

FORM I VOA-TIC

OLM03.0

6014-

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

4692567

File: /chem/HP07566.i/06jan26b.b/rj26s04.d
Sample: 6014-;4692567;2;0;;
Injected At:26-JAN-2006 20:27
Calibration Time: 29-JUN-2005 10:37
Target Method: ROLM32SL.m
Blank Reference: rj26b01.d
Sublist: 7157

Sample Concentration Formula: On-Column Amount * (Vt/Ws)
Batch:R060261AA
Analyst:JML01693
Instrument ID:HP07566.i
Standard Reference: rj26c01.d
Prep Factor:0.81
Units: ug/Kg

Matrix: SOIL
Level: Low
Sample Wt./Vol.: 6.1700 g (Ws)
Volume Purged: 5.0 ml (Vt)

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
43) Bromochloromethane	6.572(0.000)	1553	128	102033(-20)	50.00	
58) 1,4-Difluorobenzene	7.958(0.000)	1985	114	638276(-22)	50.00	
91) Chlorobenzene-d5	11.252(0.000)	3012	117	455728(-40)	50.00	

= 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
50) 1,2-Dichloroethane-d4	(1)	7.358(0.000)	65	355785	52.544	105%		70 - 121
78) Toluene-d8	(3)	9.825(0.000)	98	737035	61.104	122%		84 - 138
103) 4-Bromofluorobenzene	(3)	12.237(0.000)	95	165441	33.876	68%		59 - 113

= 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	LOQ
2) Chloromethane	(1)				ND	ND			1.62	8.10
3) Vinyl Chloride	(1)				ND	ND			1.62	8.10
5) Bromomethane	(1)				ND	ND			2.43	8.10
6) Chloroethane	(1)				ND	ND			2.43	8.10
10) 1,1-Dichloroethene	(1)				ND	ND			1.62	8.10
16) Acetone	(1)	3.717(0.000)	43	23490	9.899	8.02		J	5.67	8.10
18) Carbon Disulfide	(1)	3.993(0.001)	76	127005	7.432	6.02		J	2.43	8.10
22) Methylene Chloride	(1)				ND	ND			1.62	8.10
26) trans-1,2-Dichloroethene	(1)				ND	ND			1.62	8.10
31) 1,1-Dichloroethane	(1)				ND	ND			0.81	8.10
37) cis-1,2-Dichloroethene	(1)				ND	ND			1.62	8.10
40) 2-Butanone	(1)				ND	ND			5.67	8.10
45) Chloroform	(1)				ND	ND			0.81	8.10
46) 1,1,1-Trichloroethane	(2)				ND	ND			0.81	8.10
49) Carbon Tetrachloride	(2)				ND	ND			0.81	8.10
38) 1,2-Dichloroethene (Total)	(1)				ND	ND			1.62	8.10
52) Benzene	(2)	7.454(0.000)	78	33392	1.600	1.30		J	0.81	8.10
53) 1,2-Dichloroethane	(1)				ND	ND			1.62	8.10
61) Trichloroethene	(2)				ND	ND			0.81	8.10
66) 1,2-Dichloropropane	(2)				ND	ND			2.43	8.10
71) Bromodichloromethane	(2)				ND	ND			1.62	8.10
75) cis-1,3-Dichloropropene	(2)				ND	ND			0.81	8.10
76) 4-Methyl-2-Pentanone	(3)				ND	ND			2.43	8.10
80) Toluene	(3)	9.899(0.000)	91	55066	3.214	2.60		J	0.81	8.10

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

0114

6014-

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

4692567

File: /chem/HP07566.i/06jan26b.b/rj26s04.d
Sample: 6014-;4692567;2;0;;
Injected At:26-JAN-2006 20:27
Calibration Time: 29-JUN-2005 10:37
Target Method: ROLM32SL.m
Blank Reference: rj26b01.d
Sublist: 7157

Sample Concentration Formula: On-Column Amount * (Vt/Ws)
Batch:R060261AA
Analyst:JML01693
Instrument ID:HP07566.i
Standard Reference: rj26c01.d
Prep Factor:0.81
Units: ug/Kg

Matrix: SOIL
Level: Low
Sample Wt./Vol.: 6.1700 g (Ws)
Volume Purged: 5.0 ml (Vt)

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
81) trans-1,3-Dichloropropene	(2)					ND	ND			0.81	8.10
83) 1,1,2-Trichloroethane	(2)					ND	ND			1.62	8.10
85) Tetrachloroethene	(3)					ND	ND			0.81	8.10
87) 2-Hexanone	(3)					ND	ND			2.43	8.10
88) Dibromochloromethane	(2)					ND	ND			0.81	8.10
92) Chlorobenzene	(3)					ND	ND			0.81	8.10
94) Ethylbenzene	(3)					ND	ND			0.81	8.10
95) m+p-Xylene	(3)	11.477	(-0.001)	106	10125	1.395	1.13		J	0.81	8.10
96) Xylene (Total)	(3)			106	10125	1.414	1.15		J	0.81	8.10
97) o-Xylene	(3)					ND	ND			0.81	8.10
98) Styrene	(3)					ND	ND			0.81	8.10
99) Bromoform	(2)					ND	ND			0.81	8.10
108) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			0.81	8.10

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

Comments: SM9363

Analyst: [signature] Date: 1/31/06

Auditor: [signature] Date: 2/2/06

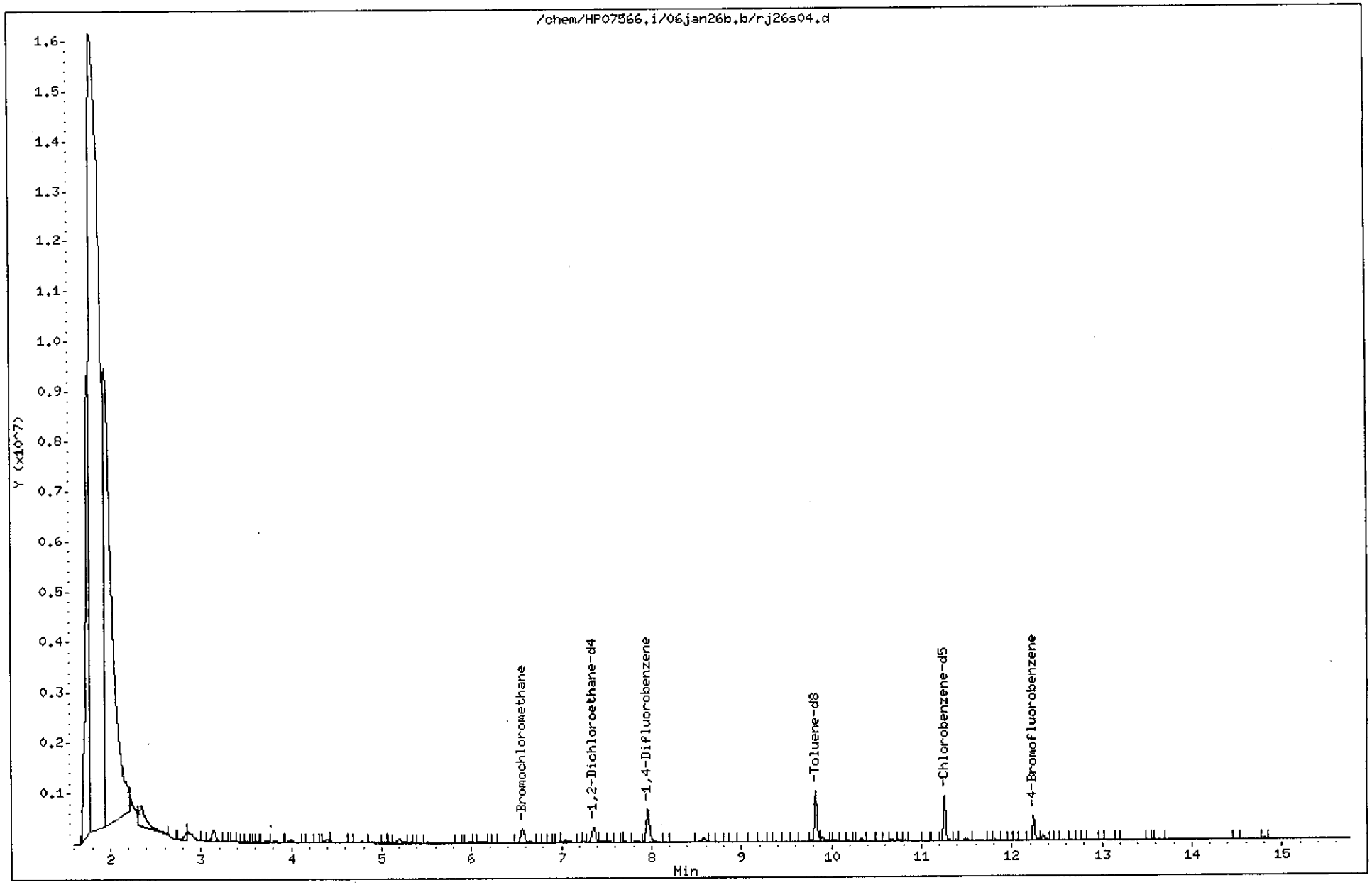
8115

Data File: /chem/HP07566.i/06jan26b.b/rj26s04.d
Date : 26-JAN-2006 20:27
Client ID: 6014-
Sample Info: 6014-;4692567;2;0;;

Column phase: DB-624

Instrument: HP07566.i

Operator: JML01693
Column diameter: 0.25



Quant Report

Target Revision 3.5

Data File: /chem/HP07566.i/06jan26b.b/rj26s04.d Instrument ID: HP07566.i
Injection date and time: 26-JAN-2006 20:27 Analyst ID: JML01693

Method used: /chem/HP07566.i/06jan26b.b/ROLM32SL.m Sublist used: 7157
Calibration date and time: 29-JUN-2005 10:37
Date, time and analyst ID of latest file update: 31-Jan-2006 08:10 sam00983

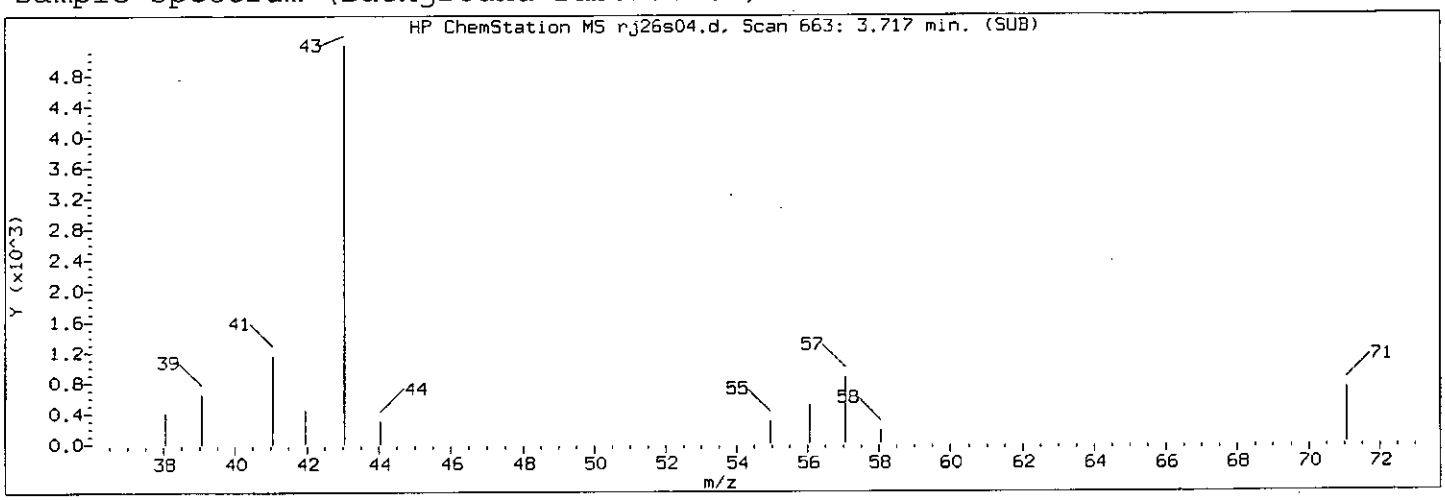
Sample Name: 6014- Lab Sample ID: 4692567

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
16) Acetone	(1)	3.717	43	23490M	9.899
18) Carbon Disulfide	(1)	3.993	76	127005	7.432
43) *Bromochloromethane	(1)	6.572	128	102033	50.000
52) Benzene	(2)	7.454	78	33392	1.600
58) *1,4-Difluorobenzene	(2)	7.958	114	638276	50.000
80) Toluene	(3)	9.899	91	55066	3.214
91) *Chlorobenzene-d5	(3)	11.252	117	455728	50.000
95) m+p-Xylene	(3)	11.477	106	10125	1.395
96) Xylene (Total)	(3)		106	10125	1.414
50) $1,2-Dichloroethane-d4	(1)	7.358	65	355785	52.544
78) $Toluene-d8	(3)	9.825	98	737035	61.104
103) $4-Bromofluorobenzene	(3)	12.237	95	165441	33.876

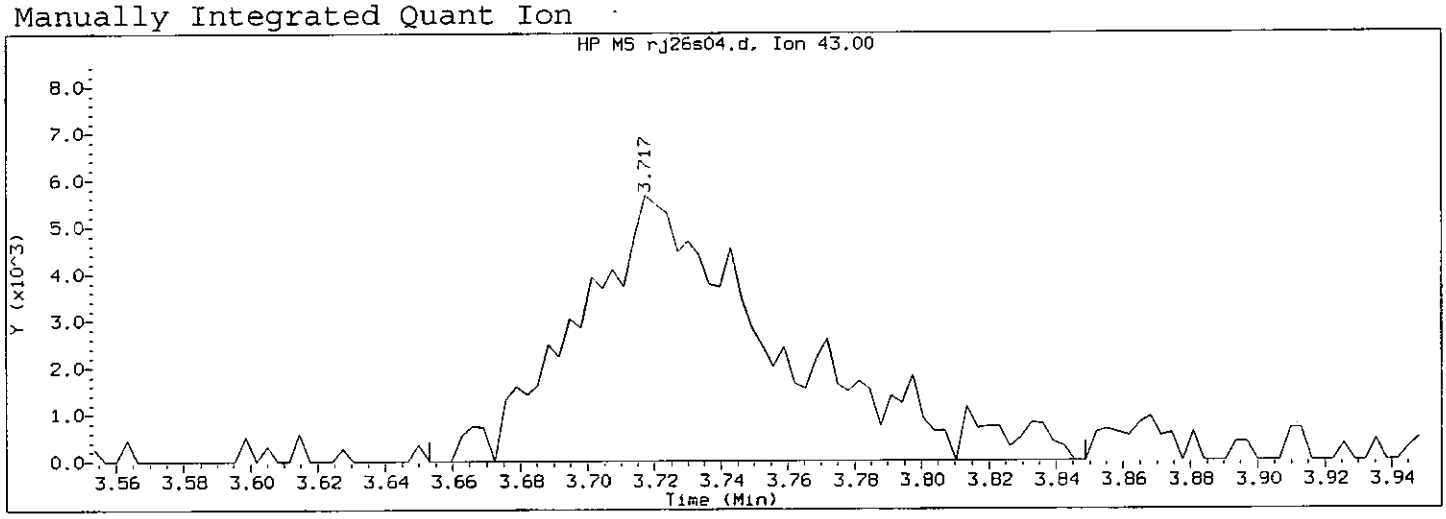
M = Compound was manually integrated.

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP07566.i/06jan26b.b/rj26s04.d Instrument ID: HP07566.i
Injection date and time: 26-JAN-2006 20:27 Analyst ID: JML01693

Method used: /chem/HP07566.i/06jan26b.b/ROLM32SL.m Sublist used: 7157
Calibration date and time: 26-JAN-2006 18:08
Date, time and analyst ID of latest file update: 31-Jan-2006 08:10 sam00983

Sample Name: 6014- Lab Sample ID: 4692567

Compound Number : 16
Compound Name : Acetone
Scan Number : 663
Retention Time (minutes): 3.717
Quant Ion : 43
Area (flag) : 23490 M
Concentration (ug/Kg) : 9.8985
Integration start scan : 642 Integration stop scan: 703
Y at integration start : 0 Y at integration end: 0

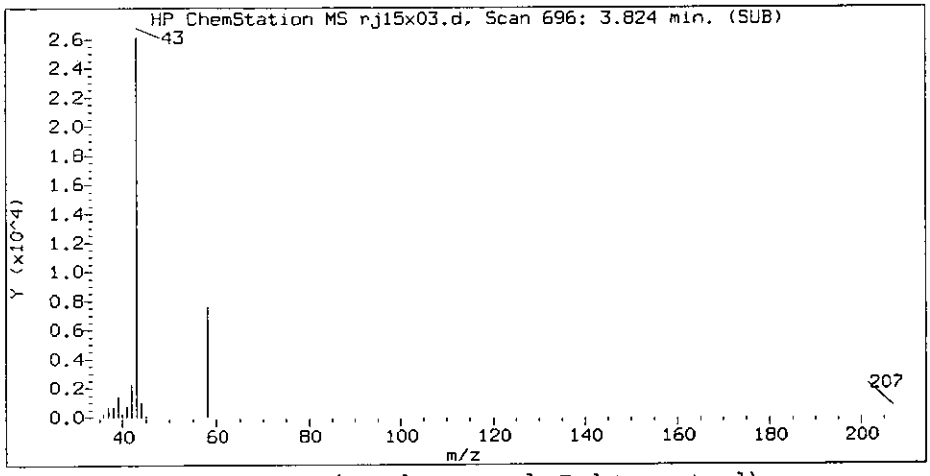
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: 1/31/06

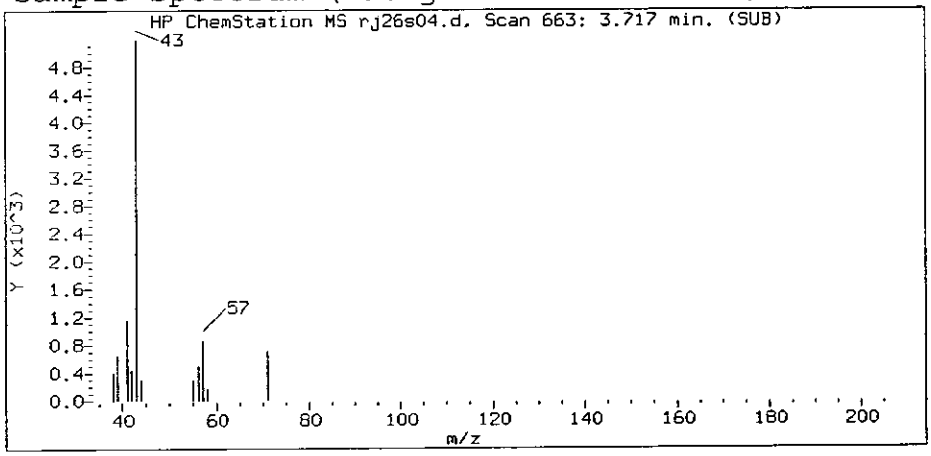
GC/MS audit/management approval: 2/2/06

Manual Integration Report for data file /chem/HP07566.i/06jan26b.b/rj26s04.d, generated on 01/31/2006 at 08:10

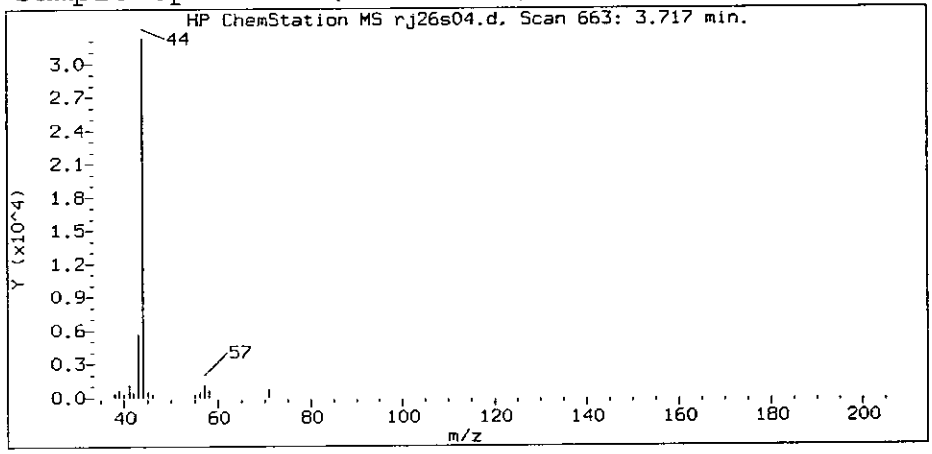
Reference Standard Spectrum for Acetone

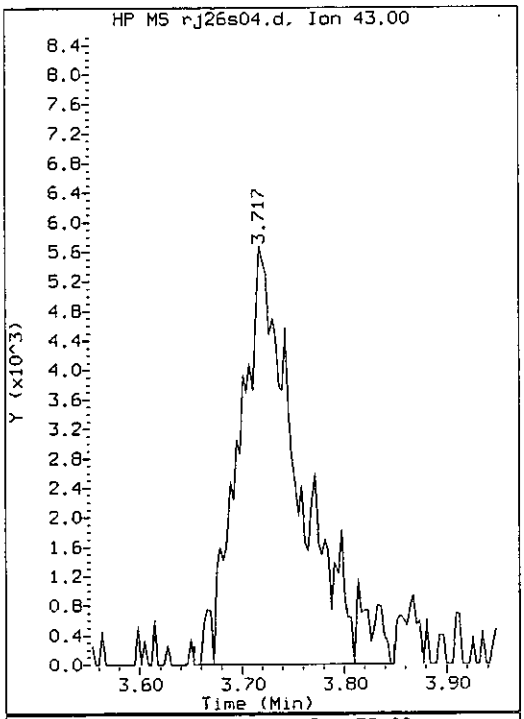


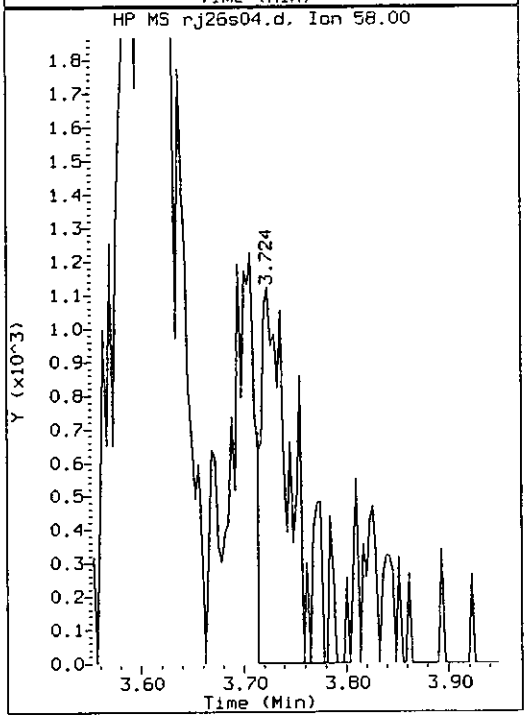
Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)







Data File: /chem/HP07566.i/06jan26b.b/rj26s04.d
Injection date and time: 26-JAN-2006 20:27

Instrument ID: HP07566.i
Analyst ID: JML01693

Method used: /chem/HP07566.i/06jan26b.b/ROLM32SL.m Sublist used: 7157
Calibration date and time: 26-JAN-2006 18:08
Date, time and analyst ID of latest file update: 31-Jan-2006 08:10 sam00983

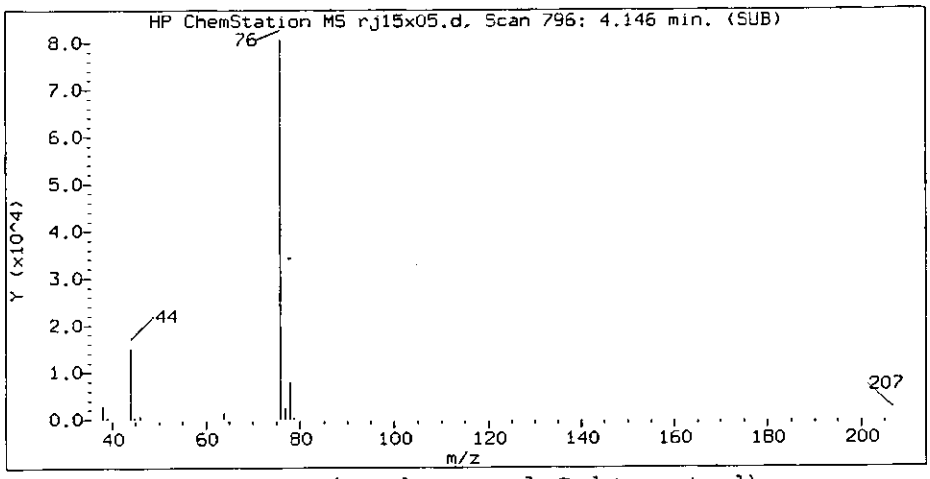
Sample Name: 6014-

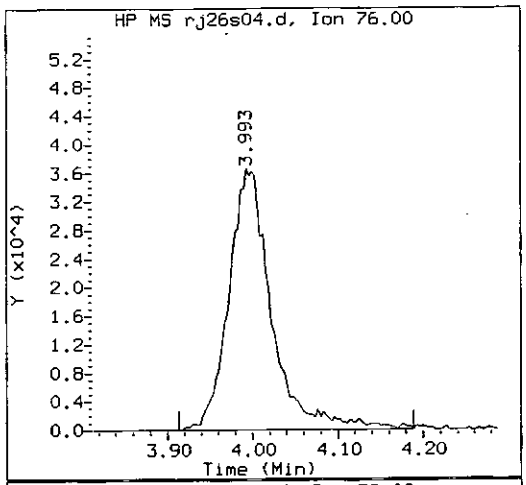
Lab Sample ID: 4692567

Compound Number	: 16
Compound Name	: Acetone
Scan Number	: 663
Retention Time (minutes)	: 3.717
Quant Ion	: 43.0
Area (flag)	: 23490 M
Concentration (ug/Kg)	: 9.8985

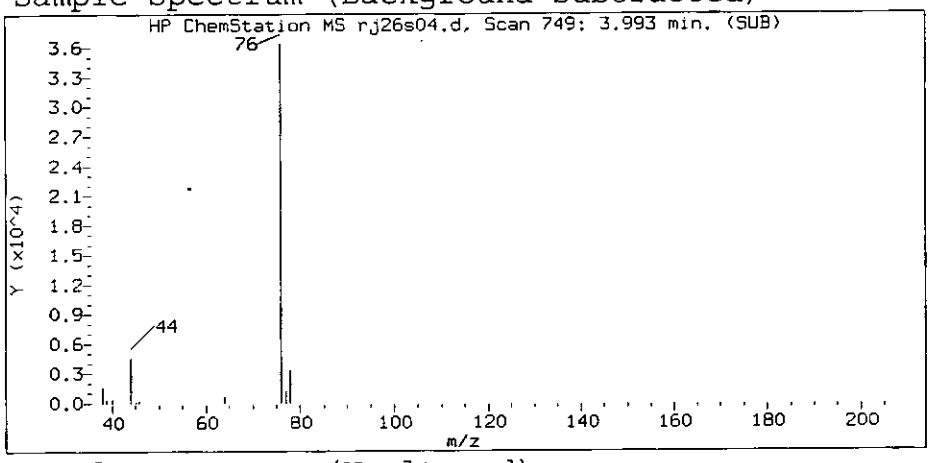
0119

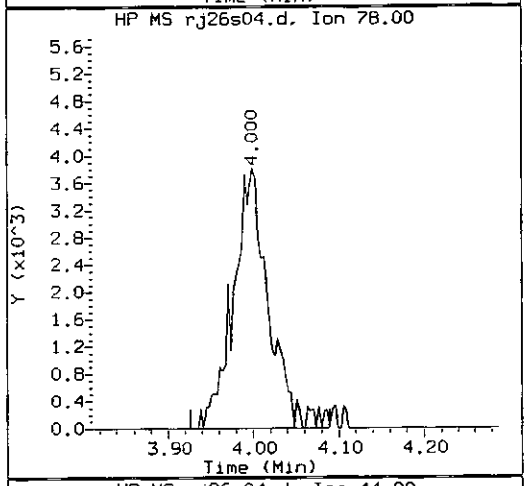
Reference Standard Spectrum for Carbon Disulfide



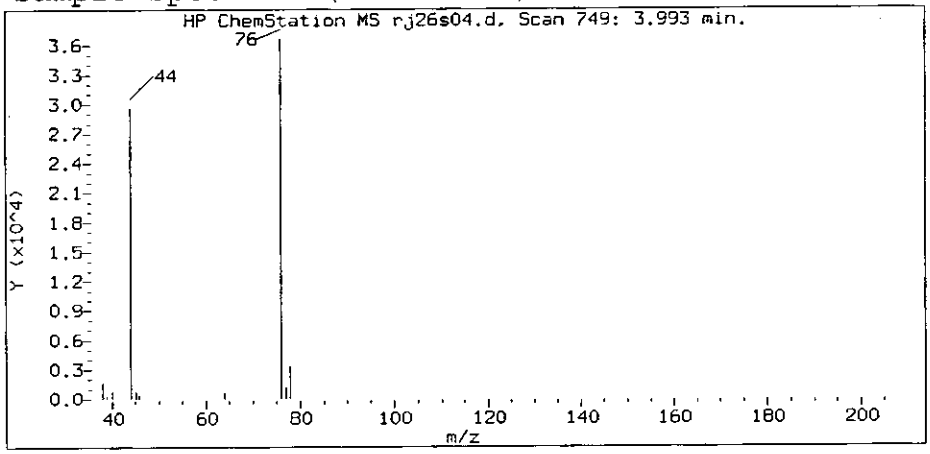


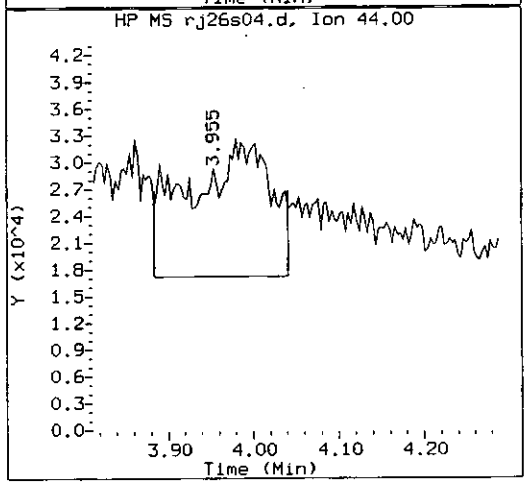
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP07566.i/06jan26b.b/rj26s04.d
Injection date and time: 26-JAN-2006 20:27

Instrument ID: HP07566.i
Analyst ID: JML01693

Method used: /chem/HP07566.i/06jan26b.b/ROLM32SL.m Sublist used: 7157
Calibration date and time: 26-JAN-2006 18:08
Date, time and analyst ID of latest file update: 31-Jan-2006 08:10 sam00983

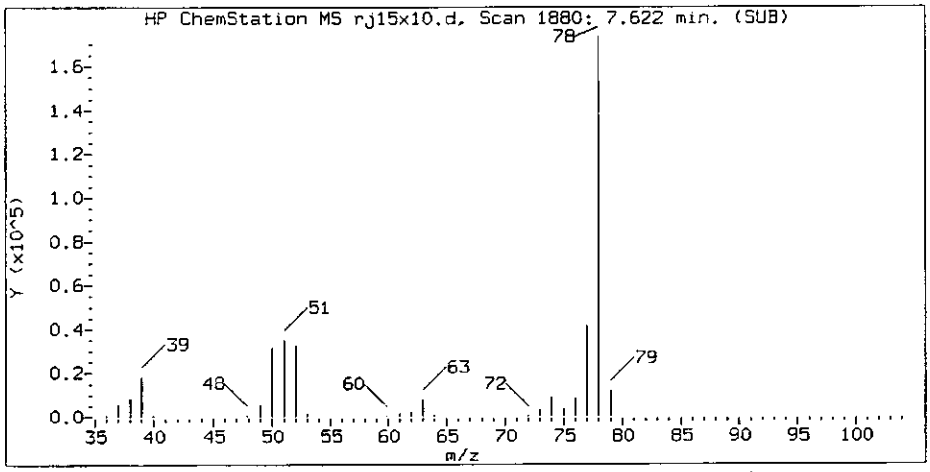
Sample Name: 6014-

Lab Sample ID: 4692567

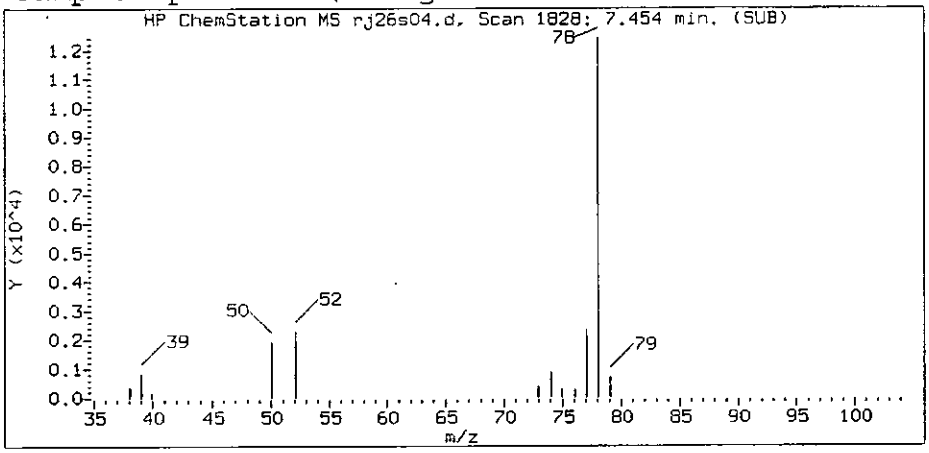
Compound Number	:	18
Compound Name	:	Carbon Disulfide
Scan Number	:	749
Retention Time (minutes)	:	3.993
Quant Ion	:	76.0
Area (flag)	:	127005
Concentration (ug/Kg)	:	7.4315

0128

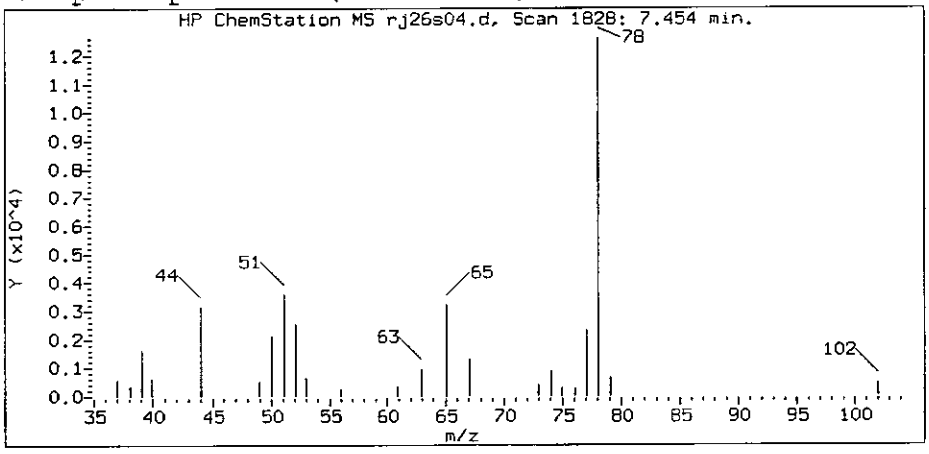
Reference Standard Spectrum for Benzene

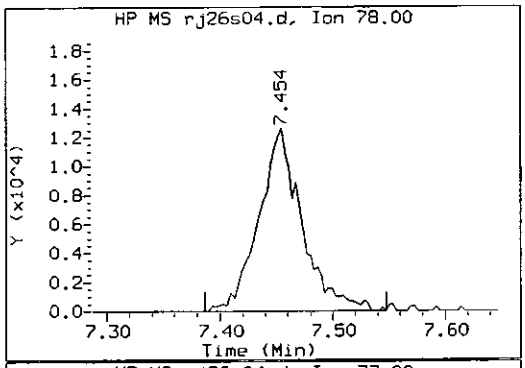


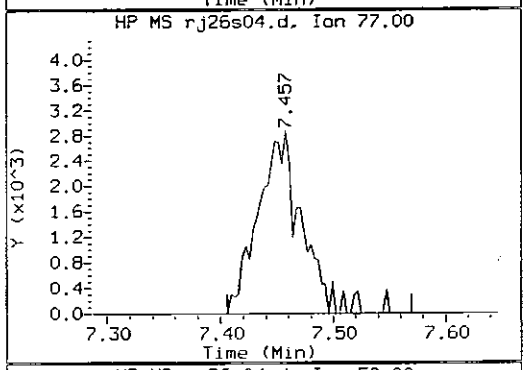
Sample Spectrum (Background Subtracted)

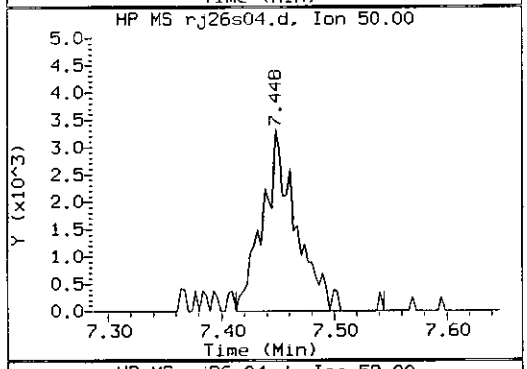


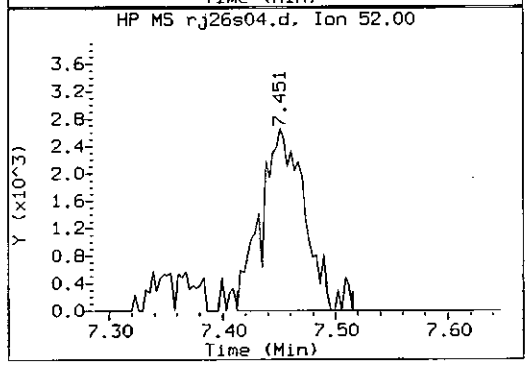
Sample Spectrum (Unaltered)











Data File: /chem/HP07566.i/06jan26b.b/rj26s04.d
Injection date and time: 26-JAN-2006 20:27

Instrument ID: HP07566.i
Analyst ID: JML01693

Method used: /chem/HP07566.i/06jan26b.b/ROLM32SL.m Sublist used: 7157
Calibration date and time: 26-JAN-2006 18:08
Date, time and analyst ID of latest file update: 31-Jan-2006 08:10 sam00983

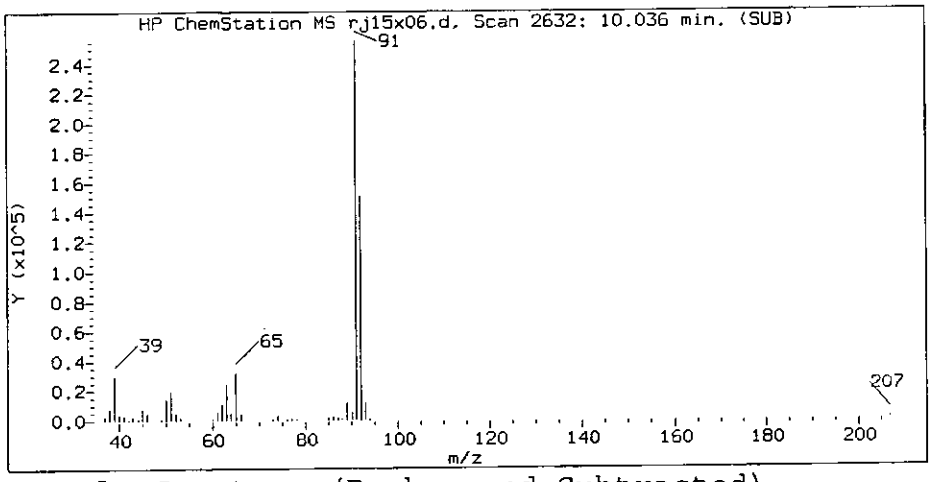
Sample Name: 6014-

Lab Sample ID: 4692567

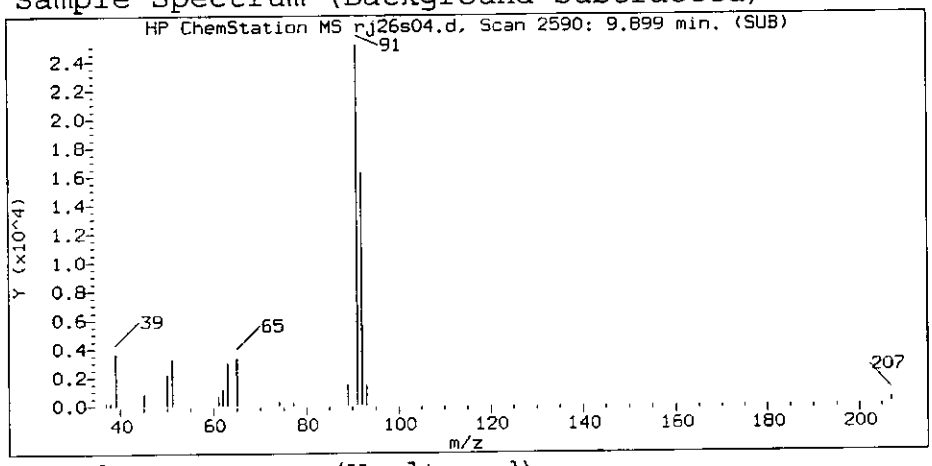
Compound Number	: 52
Compound Name	: Benzene
Scan Number	: 1828
Retention Time (minutes)	: 7.454
Quant Ion	: 78.0
Area (flag)	: 33392
Concentration (ug/Kg)	: 1.6004

8121

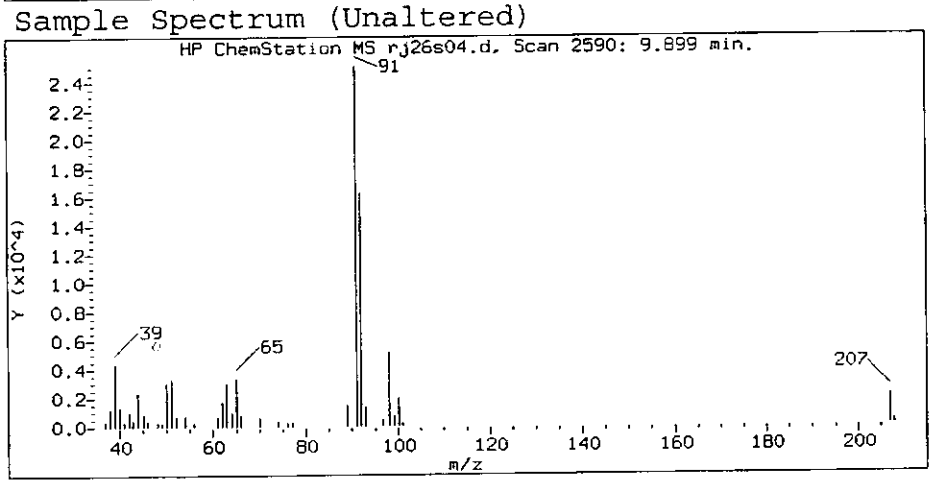
Reference Standard Spectrum for Toluene

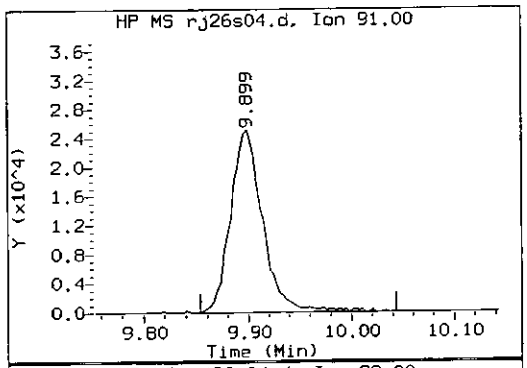


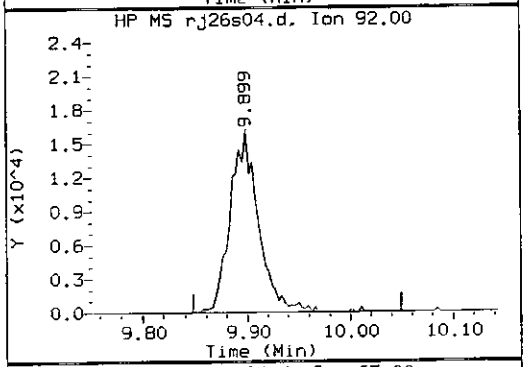
Sample Spectrum (Background Subtracted)

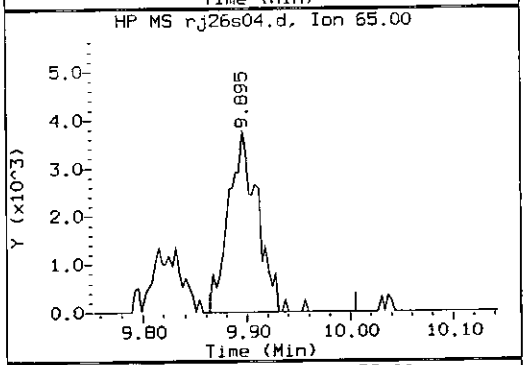


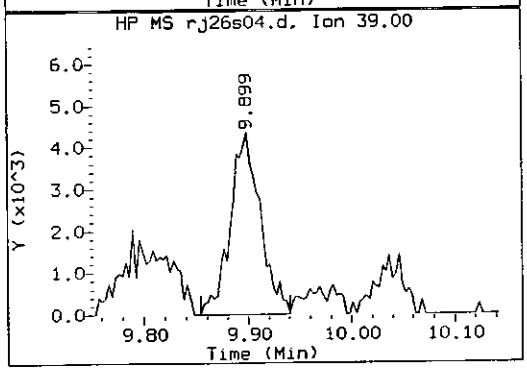
Sample Spectrum (Unaltered)











Data File: /chem/HP07566.i/06jan26b.b/rj26s04.d
Injection date and time: 26-JAN-2006 20:27

Instrument ID: HP07566.i
Analyst ID: JML01693

Method used: /chem/HP07566.i/06jan26b.b/ROLM32SL.m Sublist used: 7157
Calibration date and time: 26-JAN-2006 18:08
Date, time and analyst ID of latest file update: 31-Jan-2006 08:10 sam00983

Sample Name: 6014-

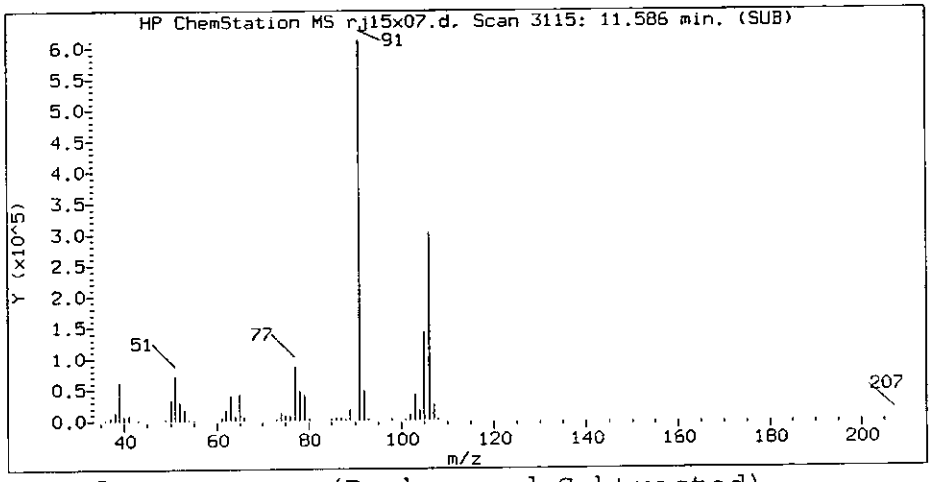
Lab Sample ID: 4692567

Compound Number	: 80
Compound Name	: Toluene
Scan Number	: 2590
Retention Time (minutes)	: 9.899
Quant Ion	: 91.0
Area (flag)	: 55066
Concentration (ug/Kg)	: 3.2137

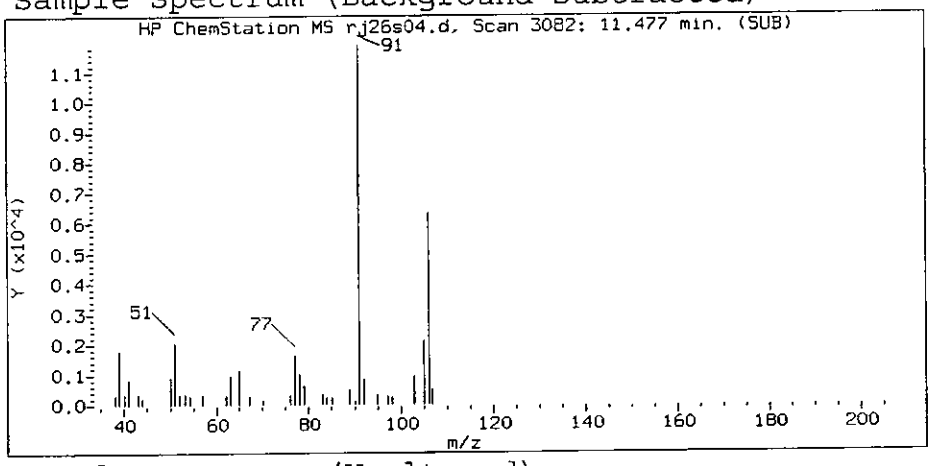
9122

Hit Data Report for data file /chem/HP07566.i/06jan26b.b/rj26s04.d, generated on 01/31/2006 at 08:10

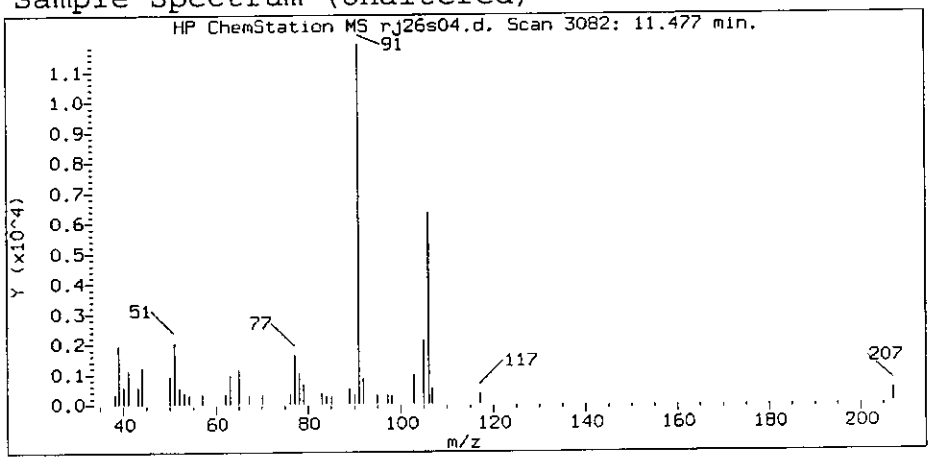
Reference Standard Spectrum for m+p-Xylene

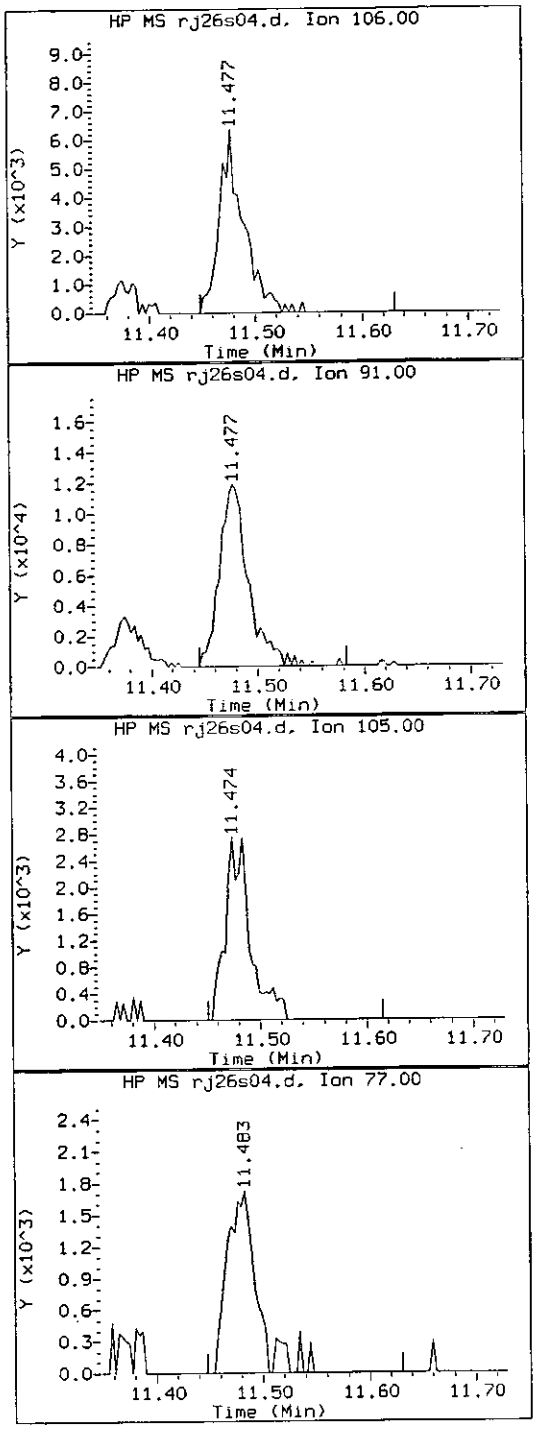


Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)





Data File: /chem/HP07566.i/06jan26b.b/rj26s04.d
Injection date and time: 26-JAN-2006 20:27

Instrument ID: HP07566.i
Analyst ID: JML01693

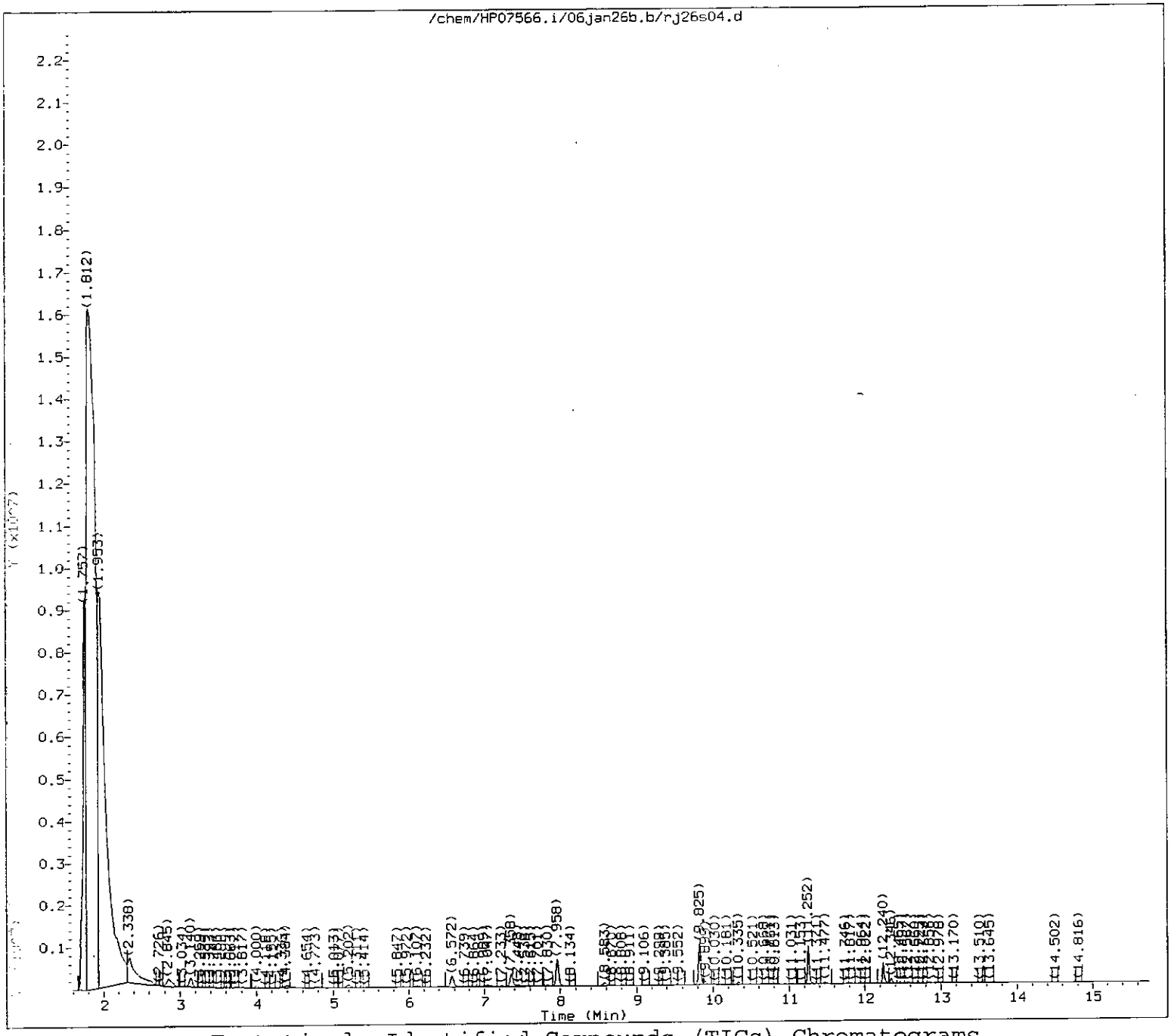
Method used: /chem/HP07566.i/06jan26b.b/ROLM32SL.m Sublist used: 7157
Calibration date and time: 26-JAN-2006 18:08
Date, time and analyst ID of latest file update: 31-Jan-2006 08:10 sam00983

Sample Name: 6014-

Lab Sample ID: 4692567

Compound Number	: 95
Compound Name	: m+p-Xylene
Scan Number	: 3082
Retention Time (minutes)	: 11.477
Quant Ion	: 106.0
Area (flag)	: 10125
Concentration (ug/Kg)	: 1.3950

0123



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP07566.i/06jan26b.b/rj26s04.d Instrument ID: HP07566.i
Injection date and time: 26-JAN-2006 20:27 Analyst ID: JML01693

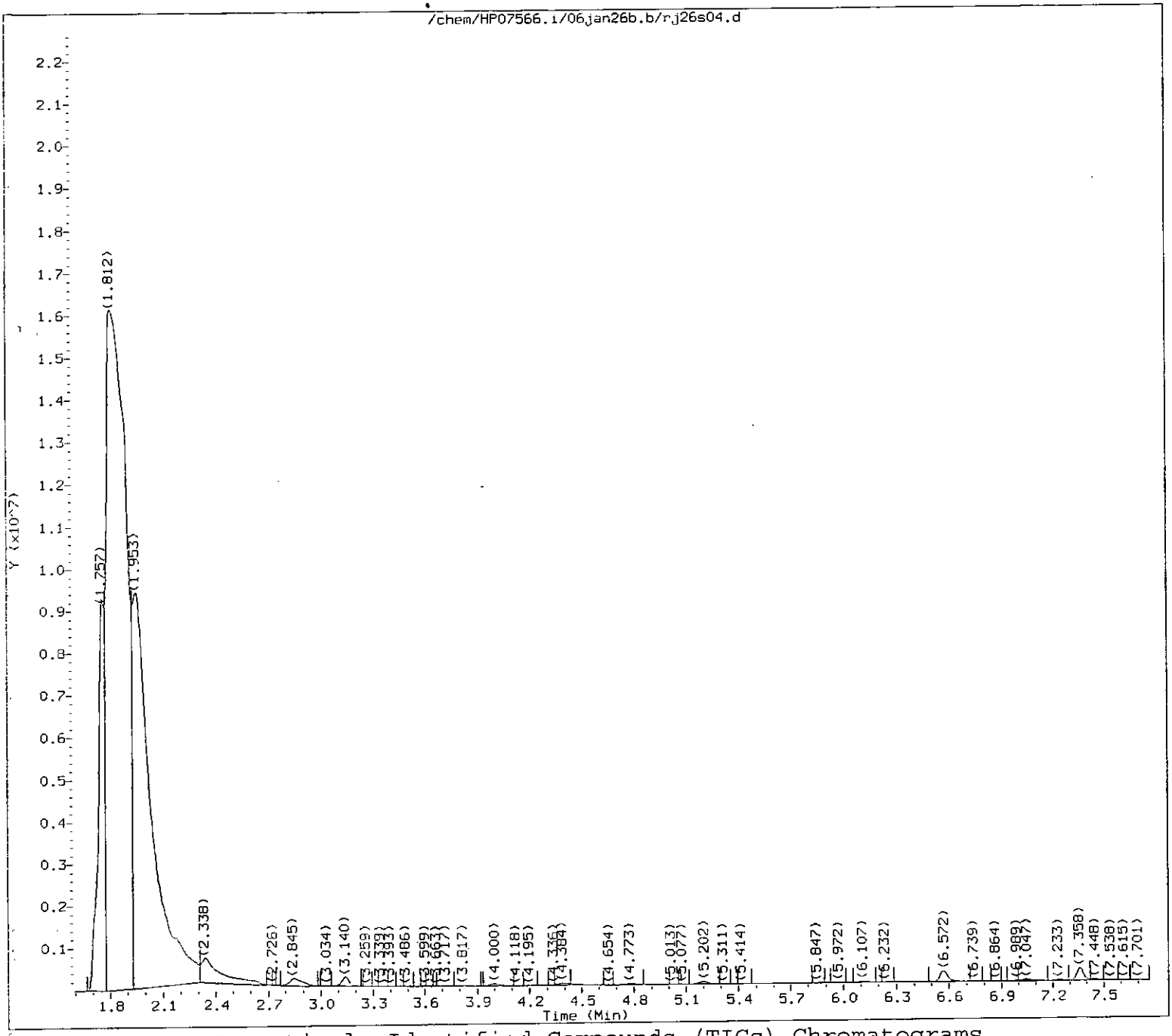
Date, time and analyst ID of latest file update: 31-Jan-2006 08:10 sam00983

Sample Name: 6014- Lab Sample ID: 4692567

Chromatogram Start Time (min.): 1.594
Chromatogram End Time (min.): 15.749

8124

1/31/06



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP07566.i/06jan26b.b/rj26s04.d Instrument ID: HP07566.i
Injection date and time: 26-JAN-2006 20:27 Analyst ID: JML01693

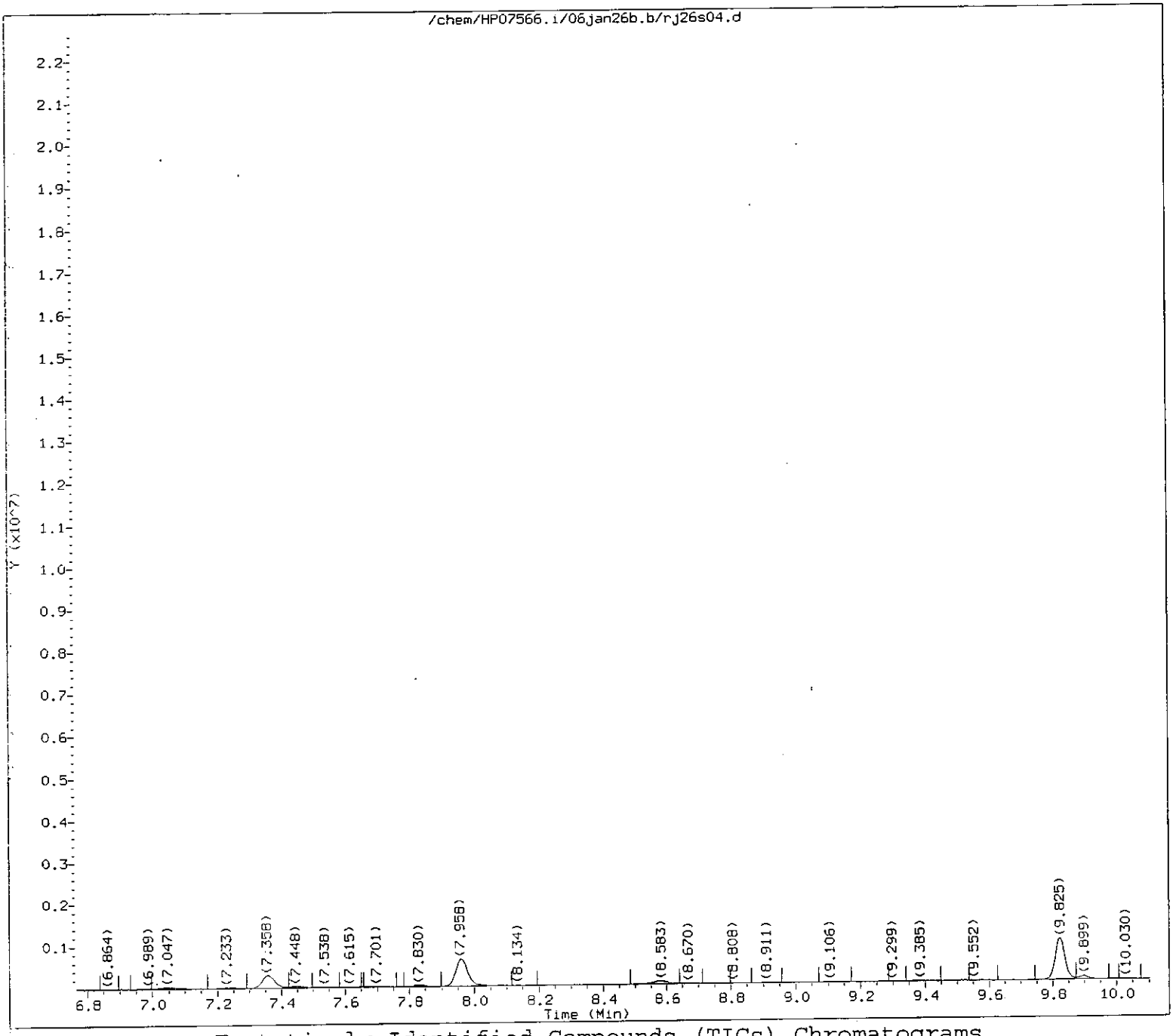
Date, time and analyst ID of latest file update: 31-Jan-2006 08:10 sam00983

Sample Name: 6014- Lab Sample ID: 4692567

Internal Standard referenced: Bromochloromethane at 6.572 minutes
Chromatogram Start Time (min.): 1.594
Chromatogram End Time (min.): 7.265

8125

1/31/06



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP07566.i/06jan26b.b/rj26s04.d Instrument ID: HP07566.i
Injection date and time: 26-JAN-2006 20:27 Analyst ID: JML01693

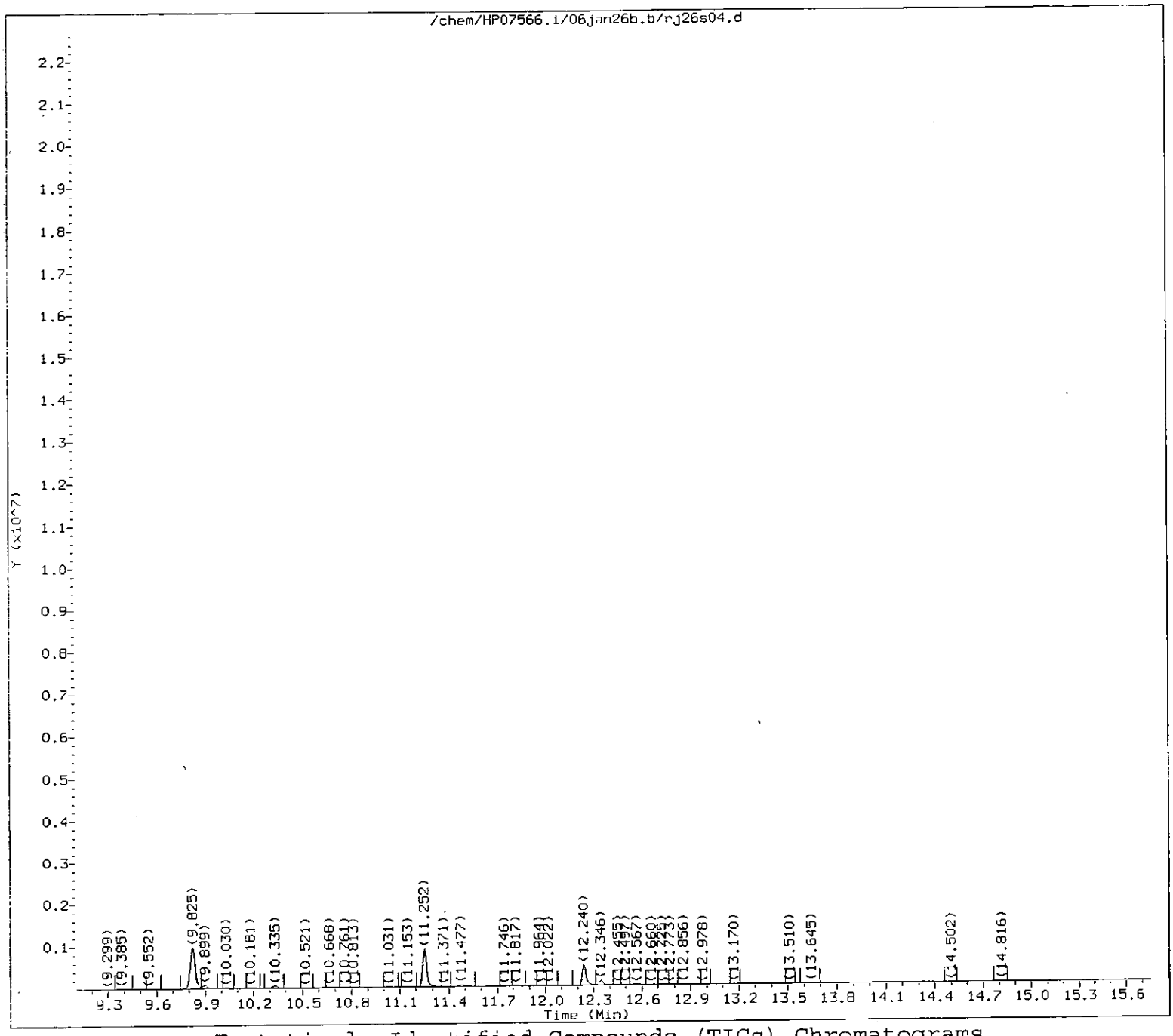
Date, time and analyst ID of latest file update: 31-Jan-2006 08:10 sam00983

Sample Name: 6014- Lab Sample ID: 4692567

Internal Standard referenced: 1,4-Difluorobenzene at 7.958 minutes
Chromatogram Start Time (min.): 7.265
Chromatogram End Time (min.): 9.605

0126

1/31/06



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP07566.i/06jan26b.b/rj26s04.d Instrument ID: HP07566.i
Injection date and time: 26-JAN-2006 20:27 Analyst ID: JML01693

Date, time and analyst ID of latest file update: 31-Jan-2006 08:10 sam00983

Sample Name: 6014- Lab Sample ID: 4692567

Internal Standard referenced: Chlorobenzene-d5 at 11.252 minutes
Chromatogram Start Time (min.): 9.605
Chromatogram End Time (min.): 15.749

8127

Lancaster Laboratories

Data file : /chem/HP07566.i/06jan26b.b/rj26s04.d
Lab Smp Id: 4692567 Client Smp ID: 6014-
Inj Date : 26-JAN-2006 20:27
Operator : JML01693 Inst ID: HP07566.i
Smp Info : 6014-;4692567;2;0;;
Misc Info : 7157.sub;R060261AA;6.17;;5;;rj26b01;193A;
Comment : Max. number of TICs to report is 31, 10 TICs were found initially.
Method : /chem/HP07566.i/06jan26b.b/ROLM32SL.m
Meth Date : 31-Jan-2006 08:01 sam00983 Quant Type: ISTD
Cal Date : 26-JAN-2006 16:59 Cal File: rj26c01.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 7157.sub
Target Version: 3.50
Processing Host: d21cs04

Concentration Formula: Amt * DF * (Vt/Ws) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	5.00000	Purge Volume
Ws	6.17000	Soil Weight

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 43 Bromochloromethane	6.572	831565	50.000
* 58 1,4-Difluorobenzene	7.958	1694698	50.000
* 91 Chlorobenzene-d5	11.252	1607996	50.000

	RT	AREA	CONCENTRATIONS ON-COL(ug/L)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown	2.338	4868892	292.754727	237.2404	CAS #: 0		0	43

MMB 2/3/06

Data File: /chem/HP07566.i/06jan26b.b/rj26s04.d
Report Date: 03-Feb-2006 11:25

RT	AREA	CONCENTRATIONS ON-COL(ug/L)	CONCENTRATIONS FINAL(ug/Kg)	QUAL	QUANT LIBRARY	QUANT LIB ENTRY	CPND #
Butane, 2-methyl-				CAS #: 78-78-4			
2.845	956475	57.5105144	46.60495	86	NIST98.1	109392	43
Pentane				CAS #: 109-66-0			
3.140	617907	37.1532250	30.10796	90	NIST98.1	4653	43
Unknown alkane				CAS #:			
4.384	179967	10.8209968	8.7690	0		0	43
Unknown alkane				CAS #:			
4.773	106408	6.39802862	5.1848	0		0	43
Hexane				CAS #: 110-54-3			
5.202	232025	13.9511243	11.30561	91	NIST98.1	16315	43
Unknown alicyclic				CAS #:			
6.107	105611	6.35014920	5.1460	0		0	43
Unknown aliphatic				CAS #:			
7.047	179981	10.8217983	8.7697	0		0	43
Cyclohexane, methyl-				CAS #: 108-87-2			
8.583	228033	6.72783760	5.4520	91	NIST98.1	116405	58
Unknown siloxane				CAS #:			
12.346	217846	6.77384566	5.4893	0		0	91

2/2/06

Data File: /chem/HP07566.i/06jan26b.b/rj26s04.d

Date : 26-JAN-2006 20:27

Client ID: 6014-

Sample Info: 6014-;4692567;2;0;;

Instrument: HP07566.i

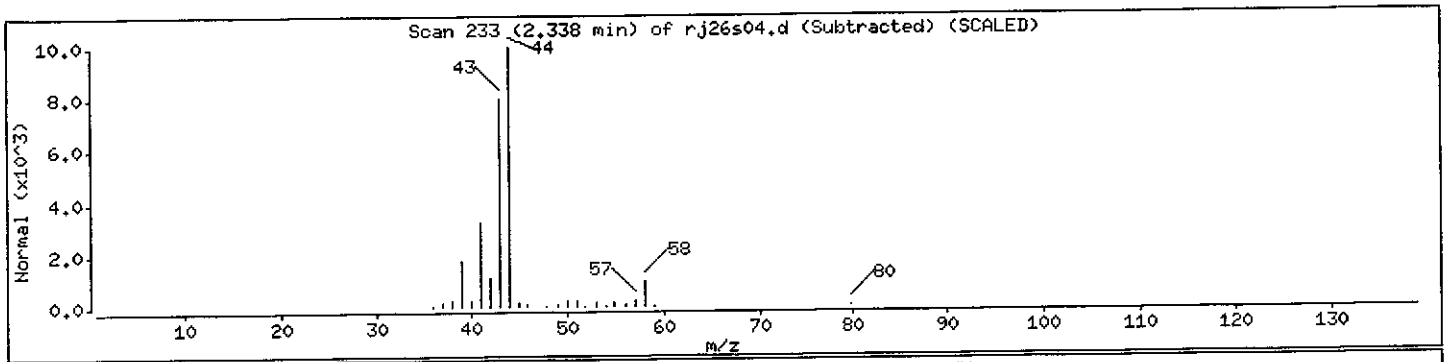
Operator: JHL01693

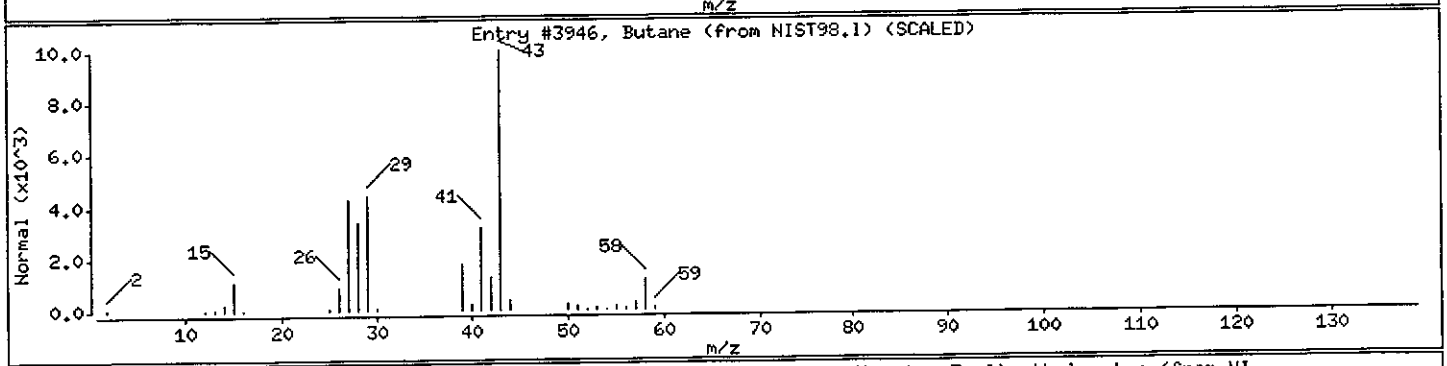
Column phase: DB-624

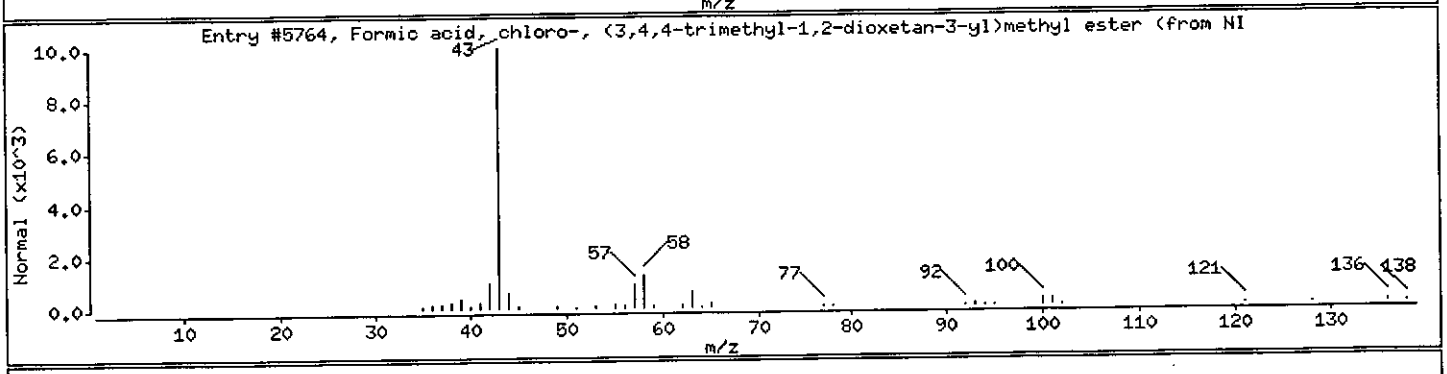
Column diameter: 0.25

Review Code:

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Butane	106-97-8	NIST98.1	3946	22	C4H10	58
Formic acid, chloro-, (3,4,4-trimethyl-1	107323-92-2	NIST98.1	5764	12	C7H11ClO4	194







Data File: /chem/HP07566.i/06jan26b.b/rj26s04.d

Date : 26-JAN-2006 20:27

Client ID: 6014-

Sample Info: 6014-;4692567;2;0;;

Instrument: HP07566.i

Operator: JML01693

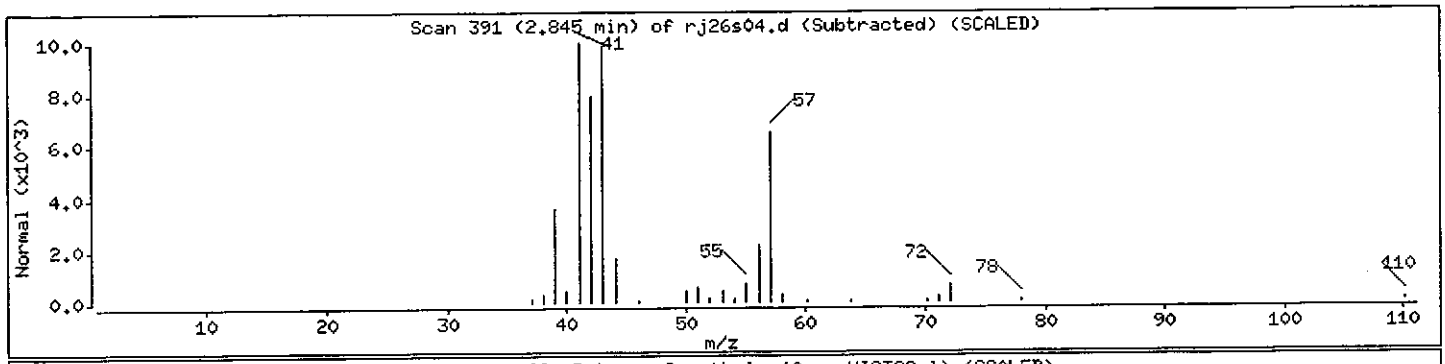
Column phase: DB-624

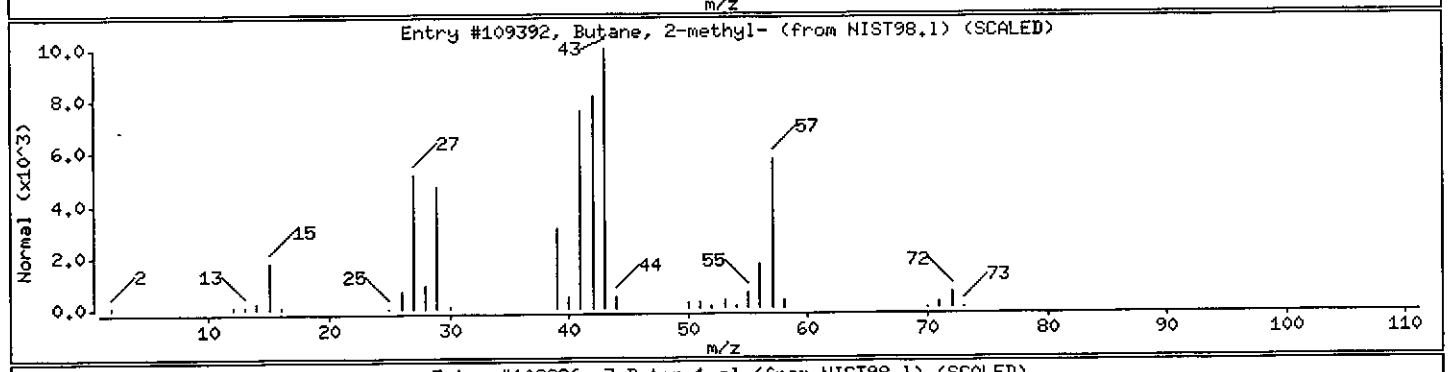
Column diameter: 0.25

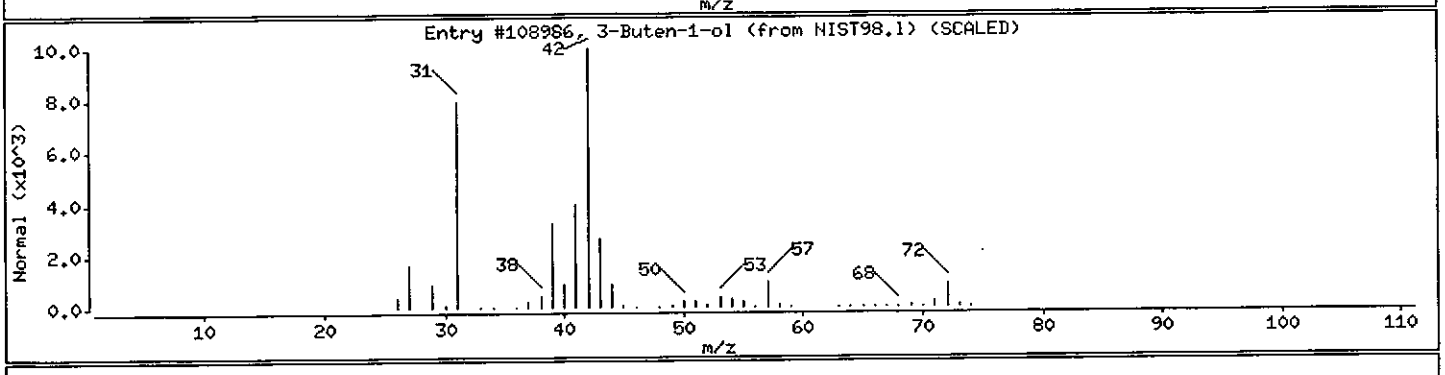
Review Code:

Library Search Compound Match

	CAS Number	Library	Entry	Quality	Formula	Weight
Butane, 2-methyl-	78-78-4	NIST98.1	109392	86	C5H12	72
3-Buten-1-ol	627-27-0	NIST98.1	108986	47	C4H8O	72







Data File: /chem/HP07566.i/06jan26b.b/rj26s04.d

Date : 26-JAN-2006 20:27

Client ID: 6014-

Sample Info: 6014-;4692567;2;0;;

Instrument: HP07566.i

Operator: JML01693

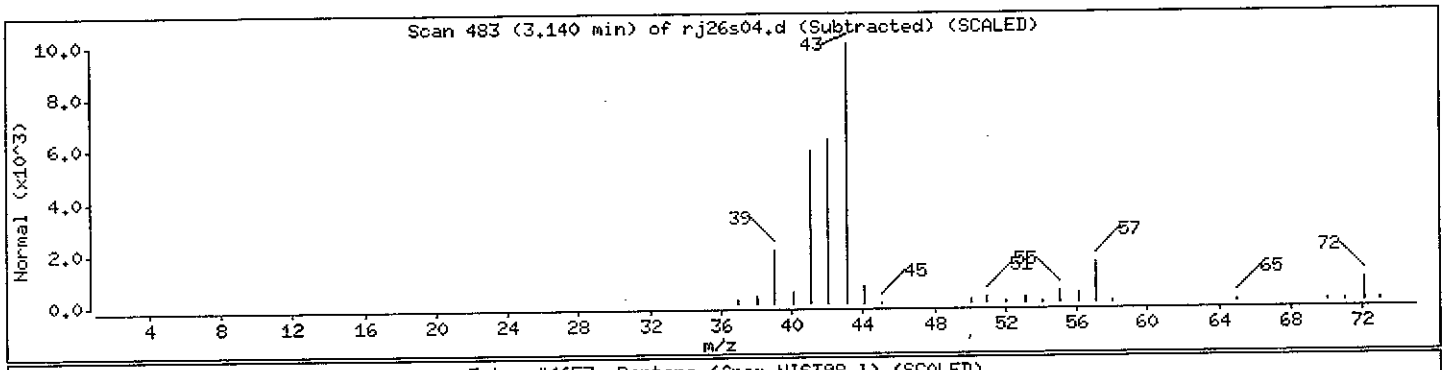
Column phase: DB-624

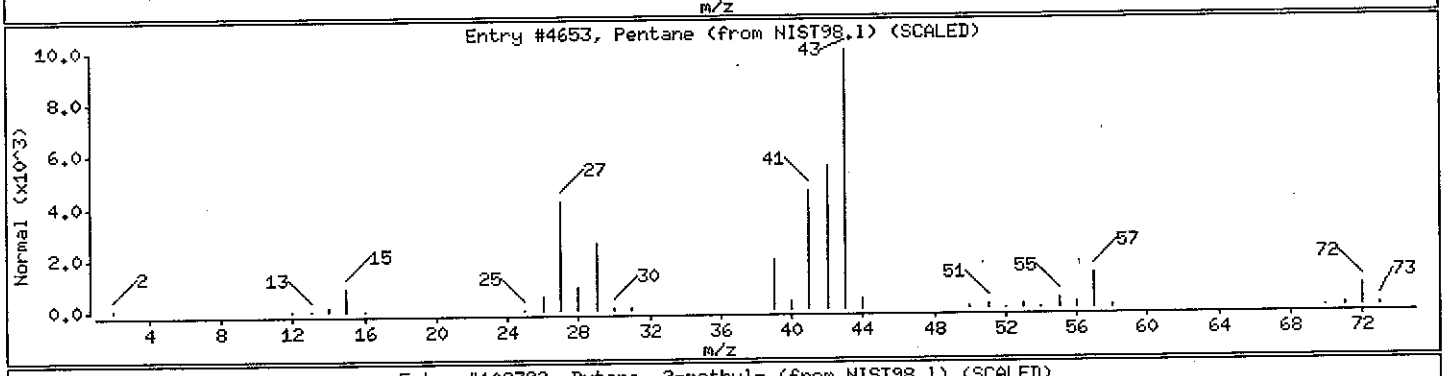
Column diameter: 0.25

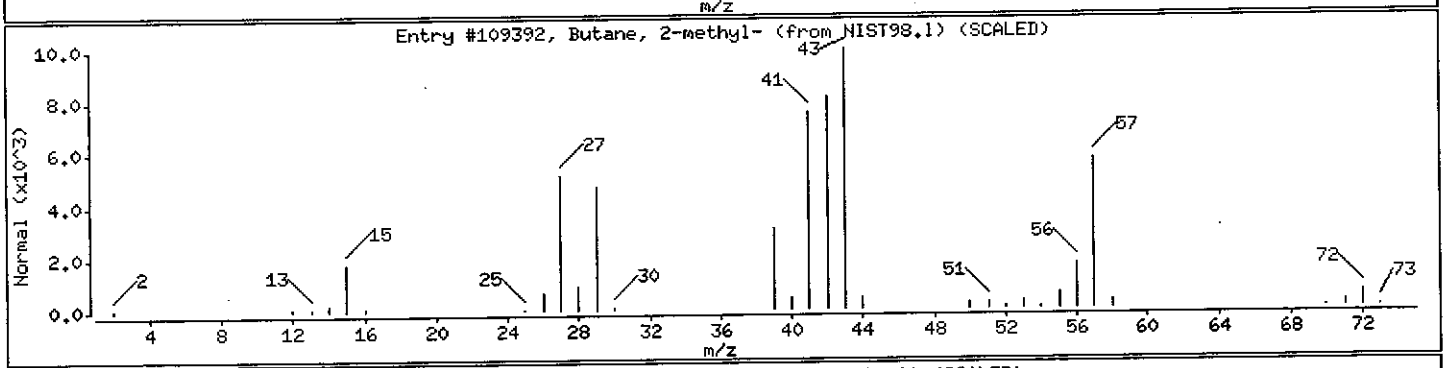
Review Code:

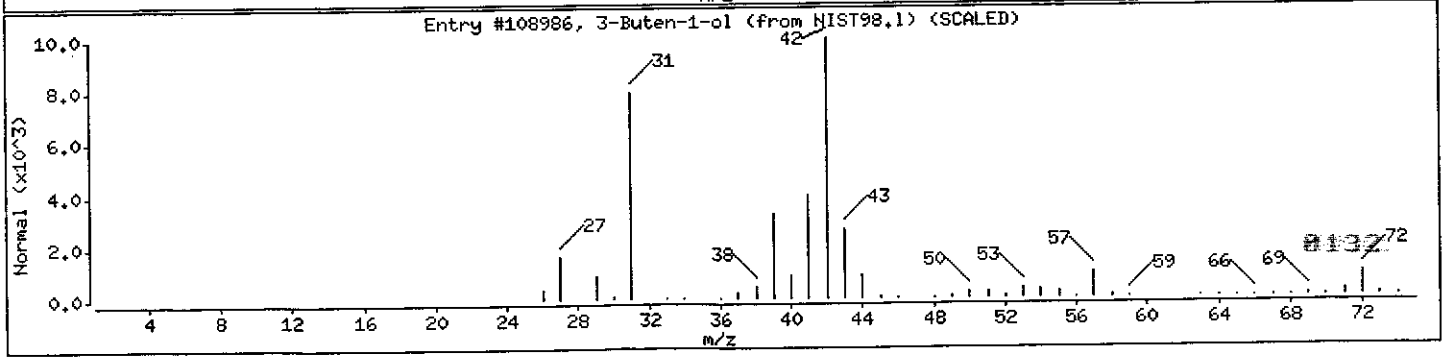
Library Search Compound Match

	CAS Number	Library	Entry	Quality	Formula	Weight
Pentane	109-66-0	NIST98.1	4653	90	C5H12	72
Butane, 2-methyl-	78-78-4	NIST98.1	109392	64	C5H12	72
3-Buten-1-ol	627-27-0	NIST98.1	108986	53	C4H8O	72









Data File: /chem/HP07566.i/06jan26b.b/rj26s04.d

Date : 26-JAN-2006 20:27

Client ID: 6014-

Sample Info: 6014-;4692567;2;0;;

Instrument: HP07566.i

Operator: JML01693

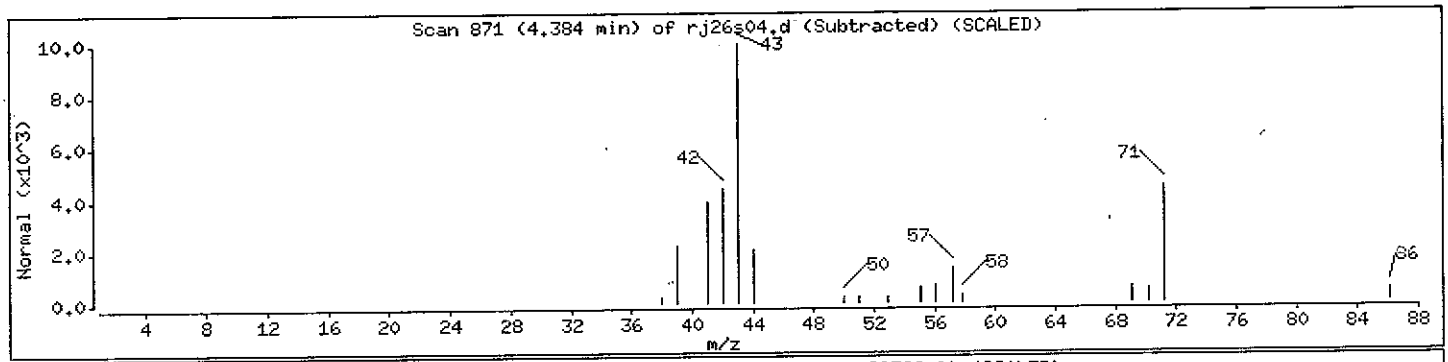
Column phase: DB-624

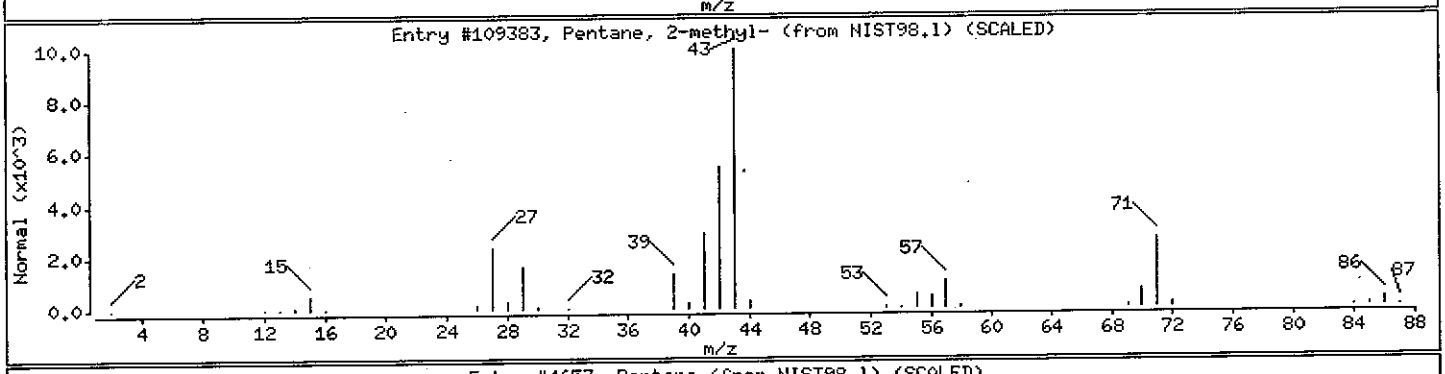
Column diameter: 0.25

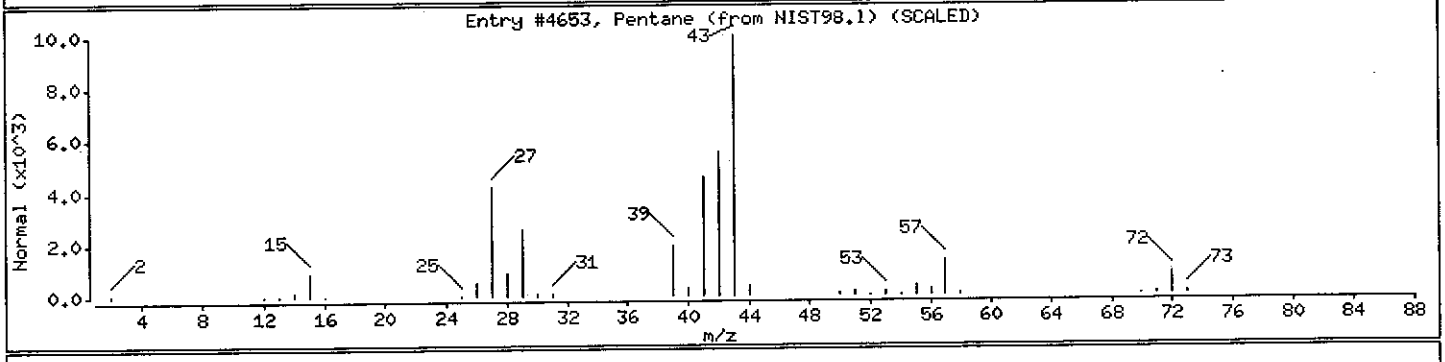
Review Code:

Library Search Compound Match

	CAS Number	Library	Entry	Quality	Formula	Weight
Pentane, 2-methyl-	107-83-5	NIST98.1	109383	72	C6H14	86
Pentane	109-66-0	NIST98.1	4653	23	C5H12	72







Data File: /chem/HP07566.i/06jan26b.b/rj26s04.d

Date : 26-JAN-2006 20:27

Client ID: 6014-

Sample Info: 6014-;4692567;2;0;;

Instrument: HP07566.i

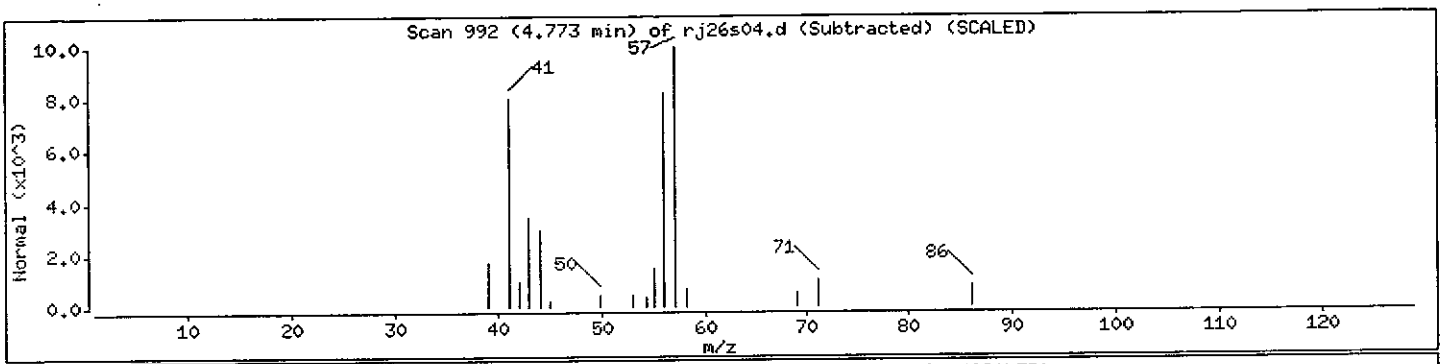
Operator: JML01693

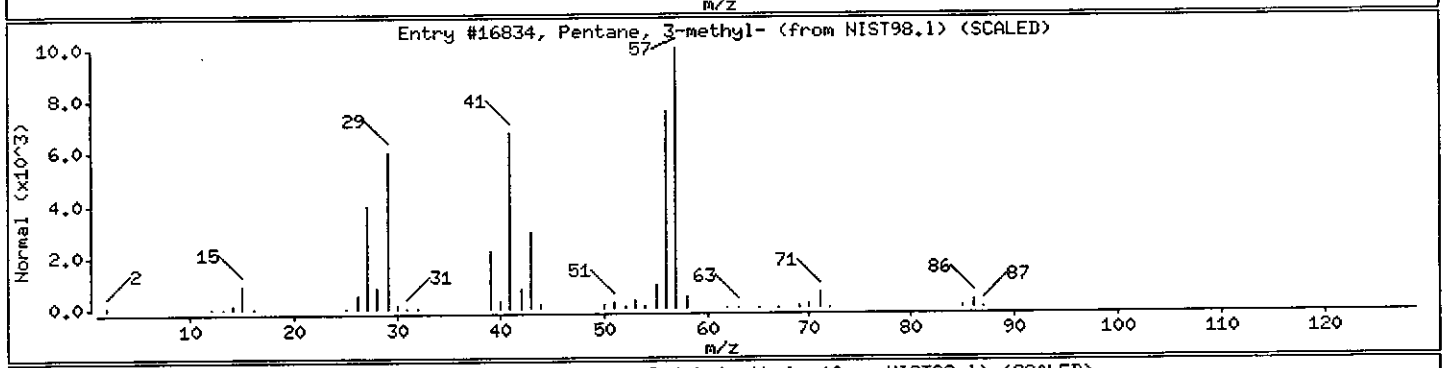
Column phase: DB-624

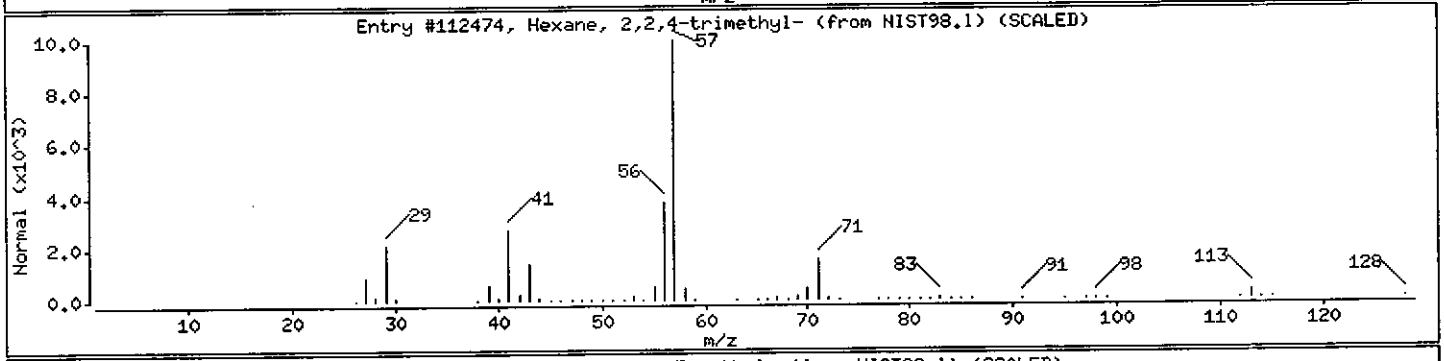
Column diameter: 0.25

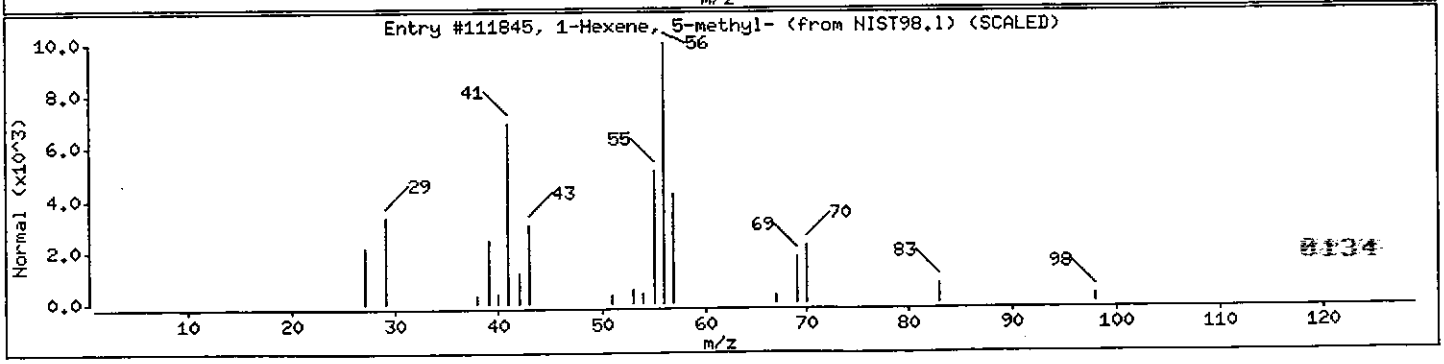
Review Code:

Library Search Compound Hatch	CAS Number	Library	Entry	Quality	Formula	Weight
Pentane, 3-methyl-	96-14-0	NIST98.1	16834	64	C6H14	86
Hexane, 2,2,4-trimethyl-	16747-26-5	NIST98.1	112474	42	C9H20	128
1-Hexene, 5-methyl-	3524-73-0	NIST98.1	111845	36	C7H14	98









0134

Data File: /chem/HP07566.i/06jan26b.b/rj26s04.d

Date : 26-JAN-2006 20:27

Client ID: 6014-

Sample Info: 6014-;4692567;2;0;;

Instrument: HP07566.i

Operator: JML01693

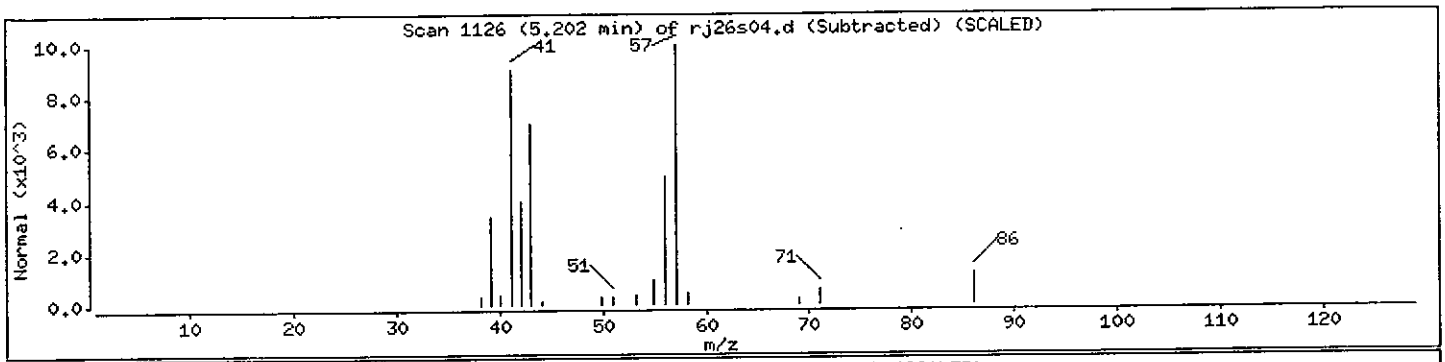
Column phase: DB-624

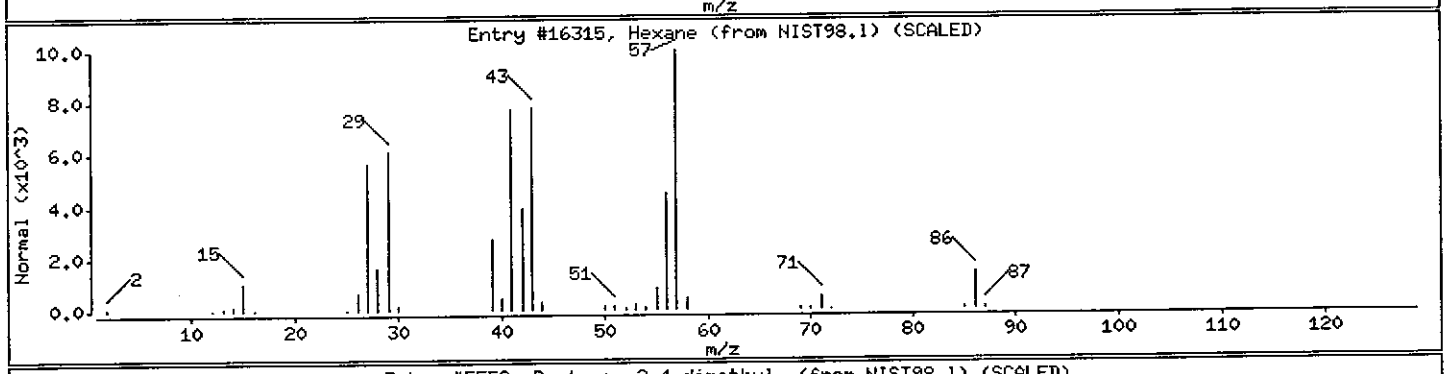
Column diameter: 0.25

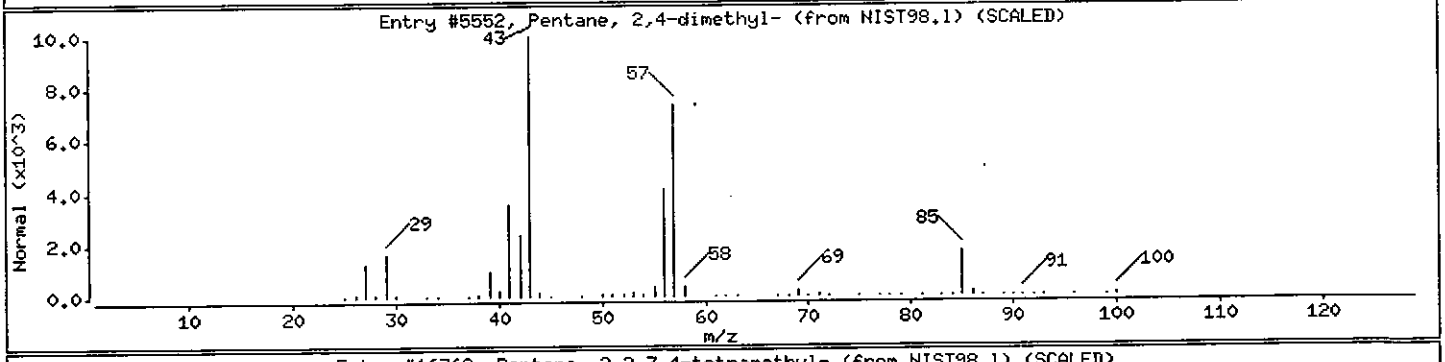
Review Code:

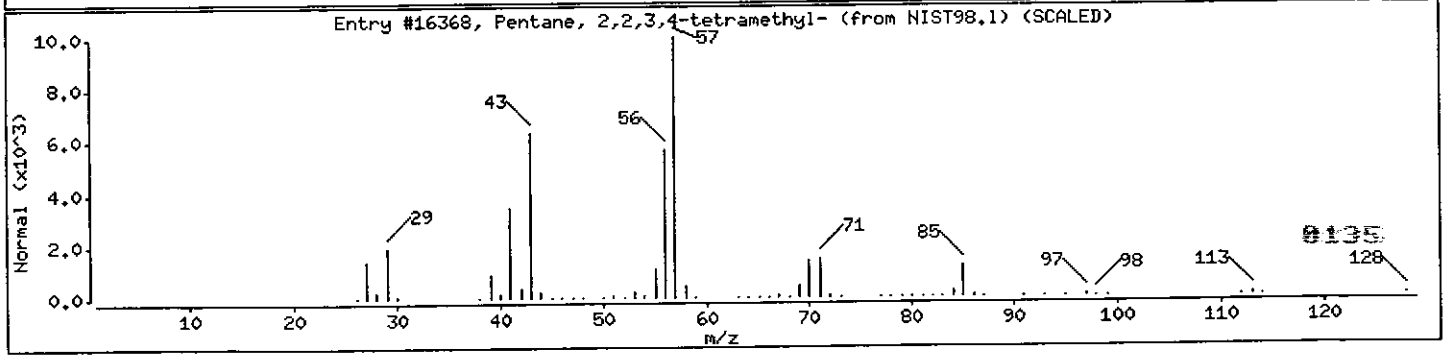
Library Search Compound Match

	CAS Number	Library	Entry	Quality	Formula	Weight
Hexane	110-54-3	NIST98.1	16315	91	C6H14	86
Pentane, 2,4-dimethyl-	108-08-7	NIST98.1	5552	38	C7H16	100
Pentane, 2,2,3,4-tetramethyl-	1186-53-4	NIST98.1	16368	37	C9H20	128









Data File: /chem/HP07566.i/06jan26b.b/rj26s04.d

Date : 26-JAN-2006 20:27

Client ID: 6014-

Sample Info: 6014-;4692567;2;0;;

Instrument: HP07566.i

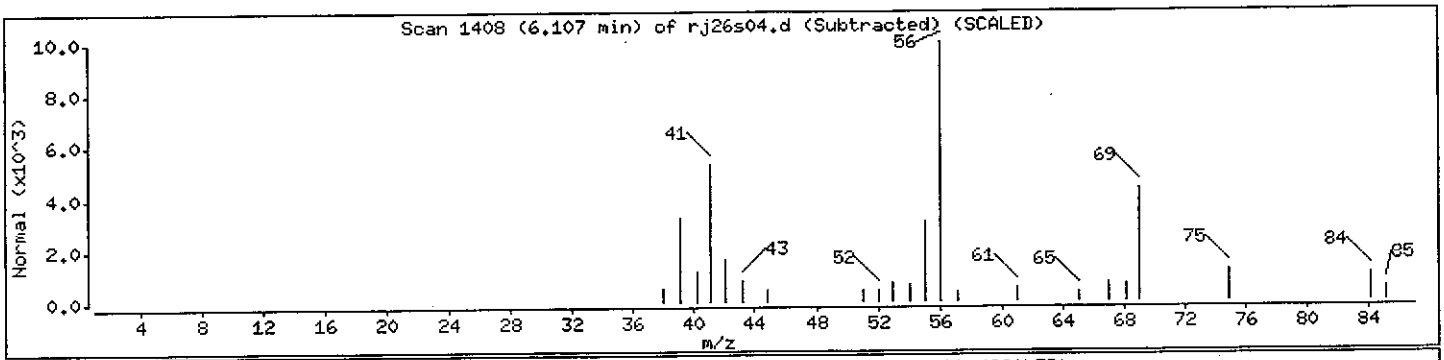
Operator: JML01693

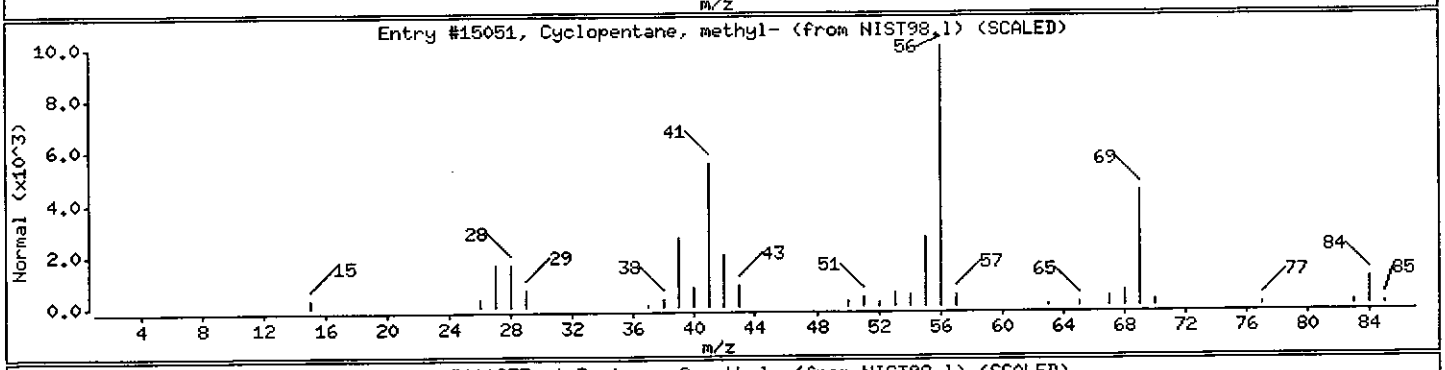
Column phase: DB-624

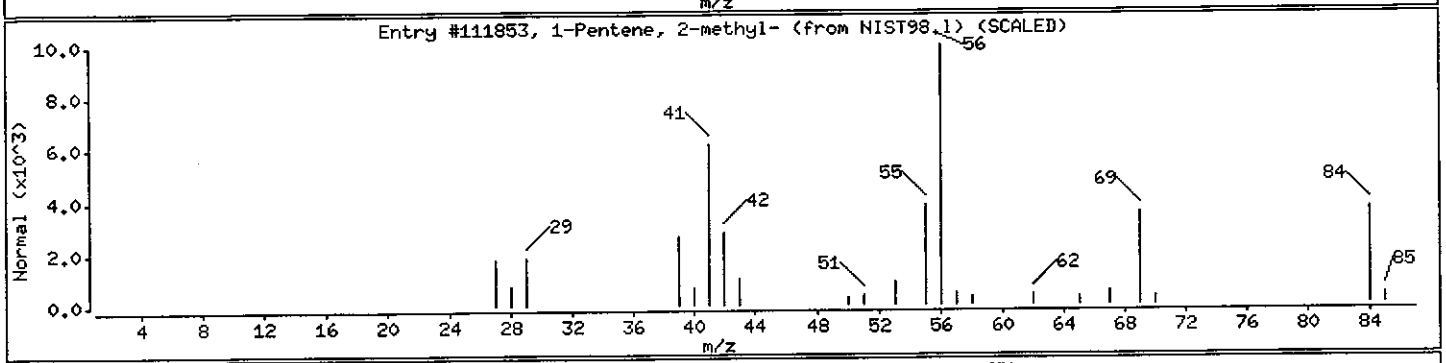
Column diameter: 0.25

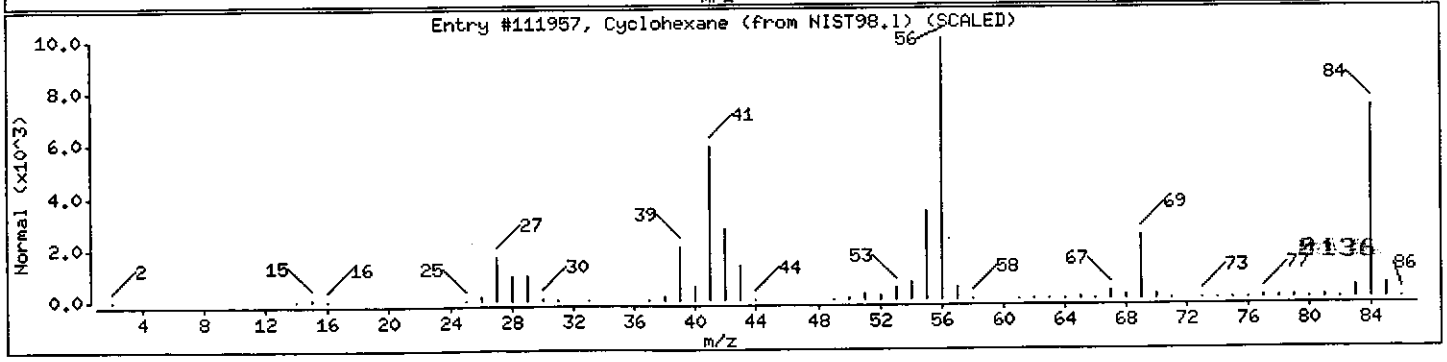
Review Code:

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclopentane, methyl-	96-37-7	NIST98.1	15051	74	C6H12	84
1-Pentene, 2-methyl-	763-29-1	NIST98.1	111853	72	C6H12	84
Cyclohexane	110-82-7	NIST98.1	111957	64	C6H12	84









Data File: /chem/HP07566.i/06jan26b.b/rj26s04.d

Date : 26-JAN-2006 20:27

Client ID: 6014-

Instrument: HP07566.i

Sample Info: 6014-;4692567;2;0;;

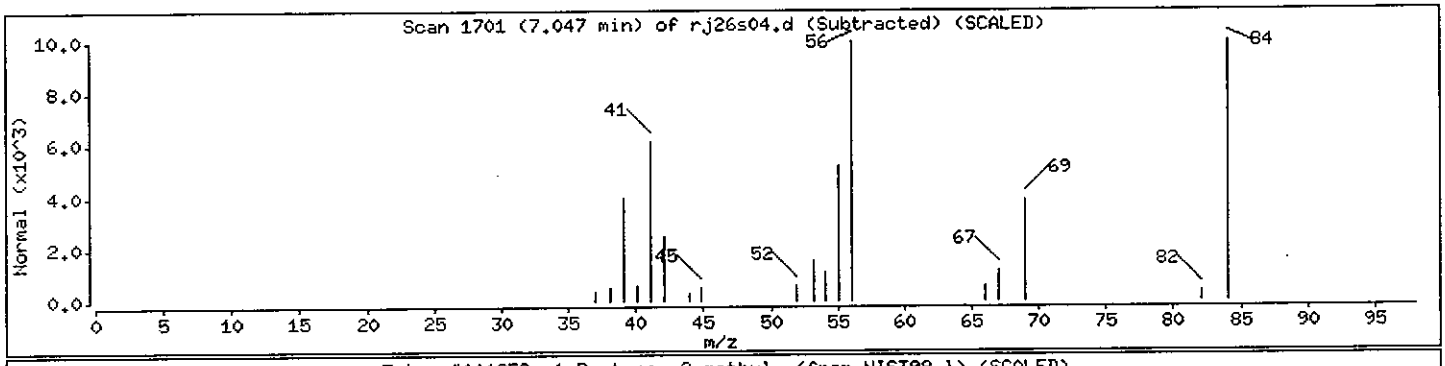
Operator: JML01693

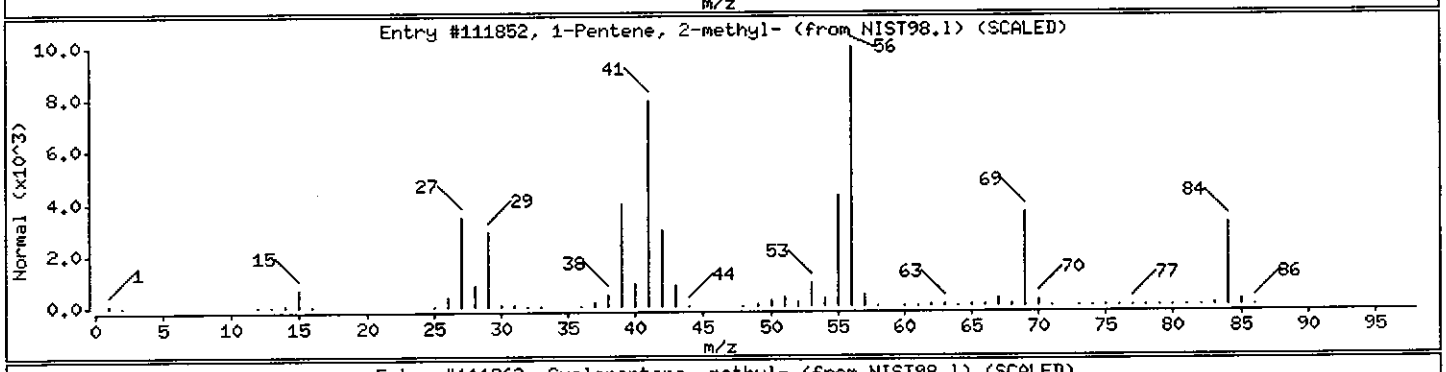
Column phase: DB-624

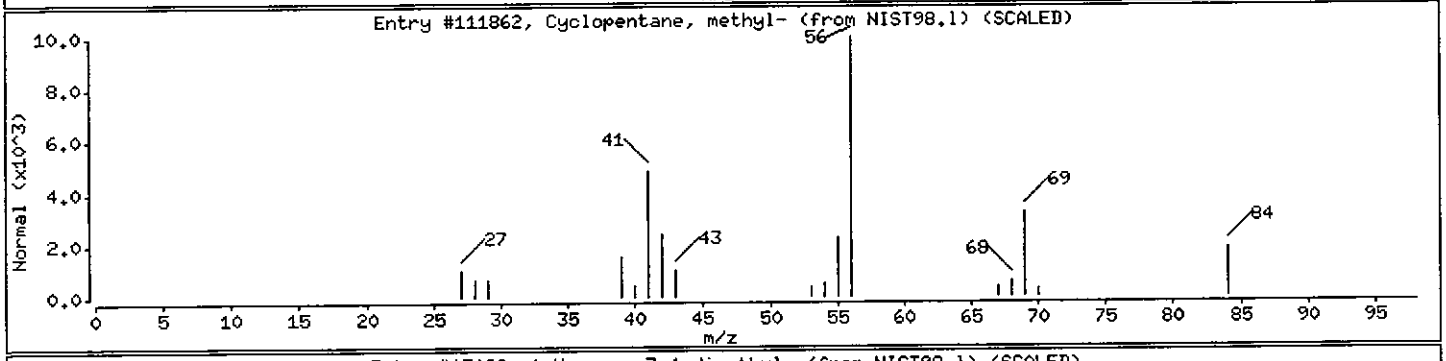
Column diameter: 0.25

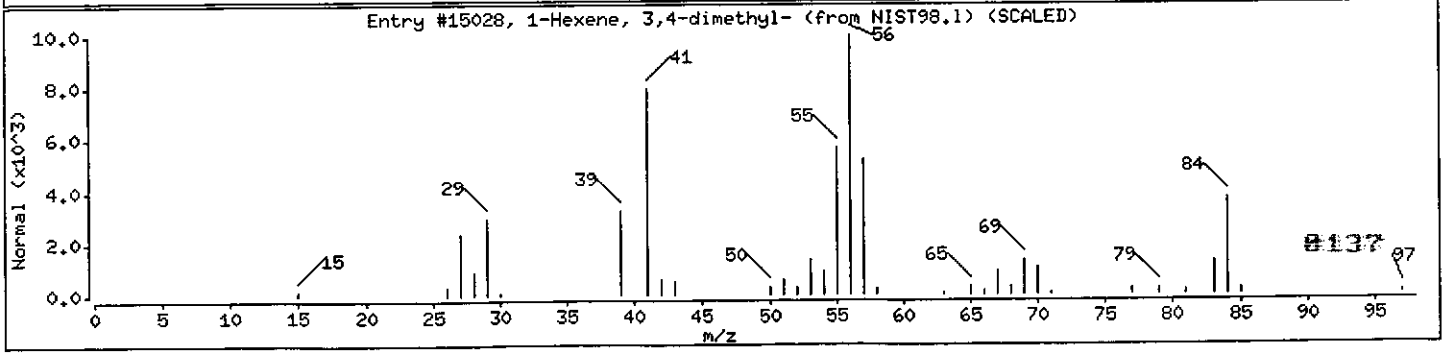
Review Code:

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Pentene, 2-methyl-	763-29-1	NIST98.1	111852	59	C6H12	84
Cyclopentane, methyl-	96-37-7	NIST98.1	111862	53	C6H12	84
1-Hexene, 3,4-dimethyl-	16745-94-1	NIST98.1	15028	45	C8H16	112









Data File: /chem/HP07566.i/06jan26b.b/rj26s04.d

Date : 26-JAN-2006 20:27

Client ID: 6014-

Sample Info: 6014-;4692567;2;0;;

Instrument: HP07566.i

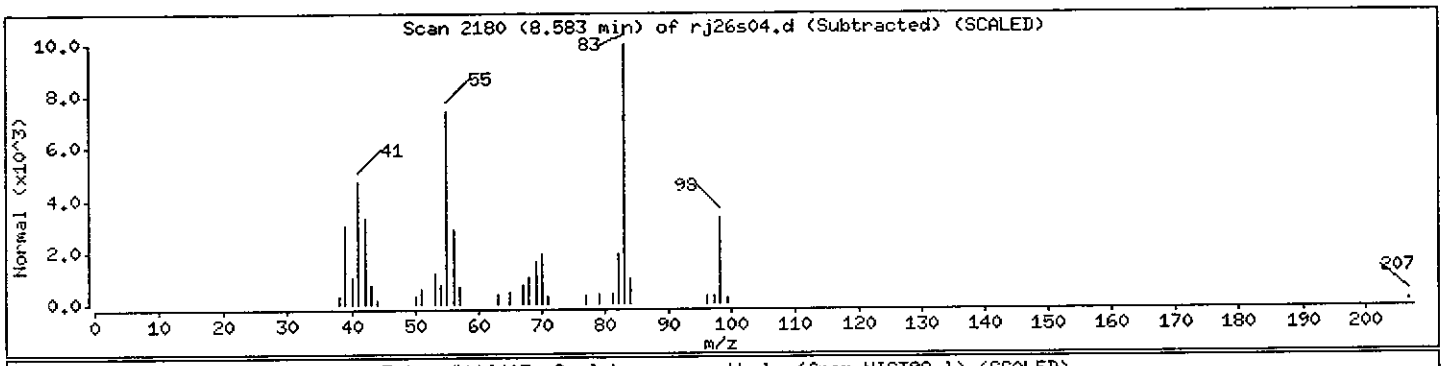
Operator: JML01693

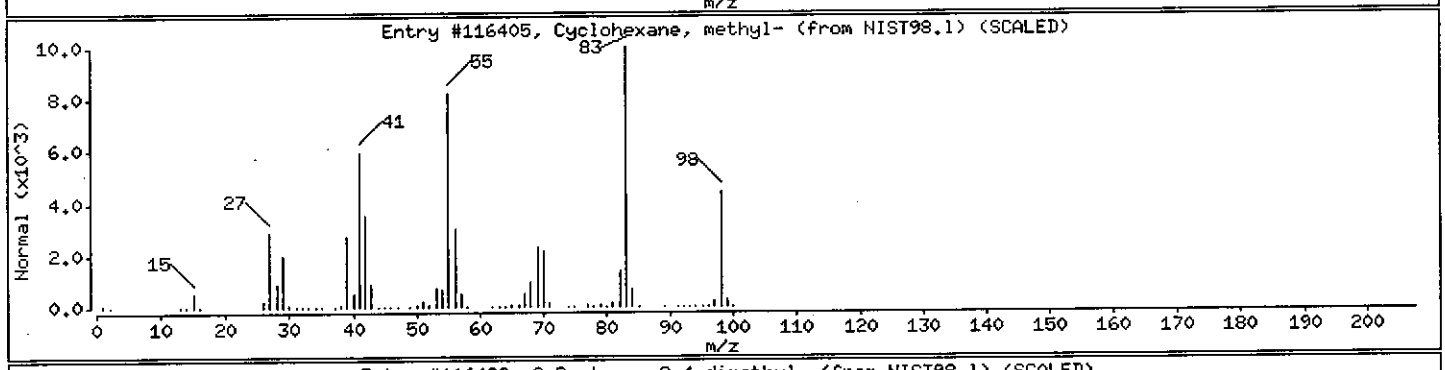
Column phase: DB-624

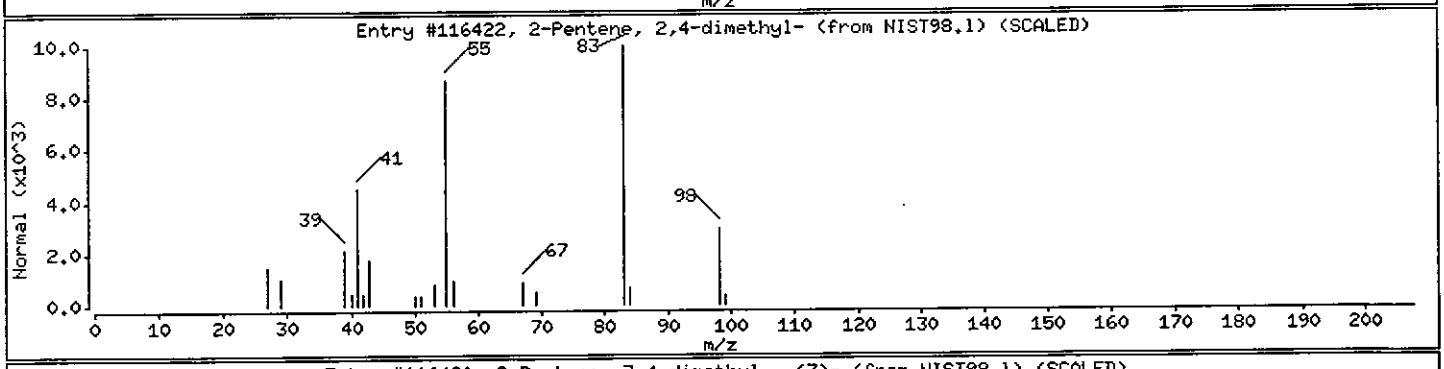
Column diameter: 0.25

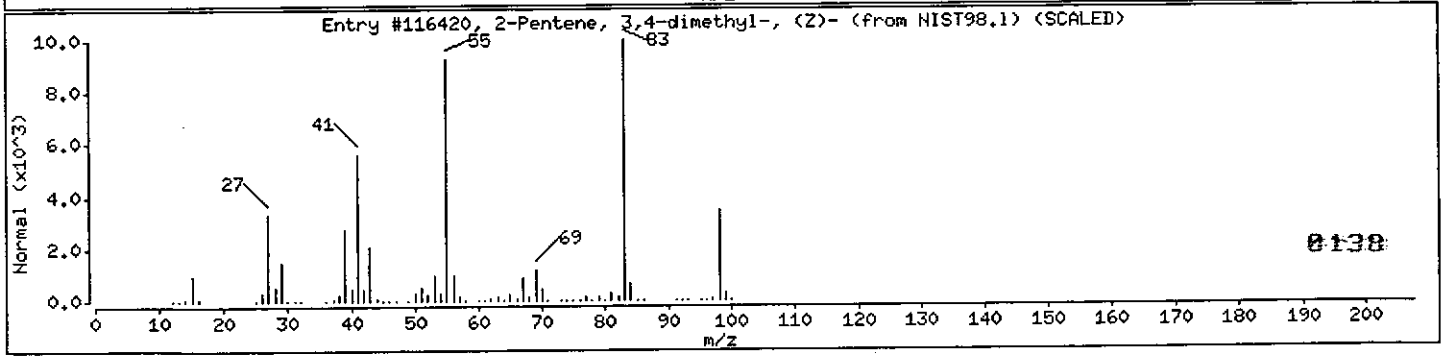
Review Code:

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclohexane, methyl-	108-87-2	NIST98.1	116405	91	C7H14	98
2-Pentene, 2,4-dimethyl-	625-65-0	NIST98.1	116422	58	C7H14	98
2-Pentene, 3,4-dimethyl-, (Z)-	4914-91-4	NIST98.1	116420	58	C7H14	98









0138

Data File: /chem/HP07566.i/06jan26b.b/rj26s04.d

Date : 26-JAN-2006 20:27

Client ID: 6014-

Sample Info: 6014-;4692567;2;0;;

Instrument: HP07566.i

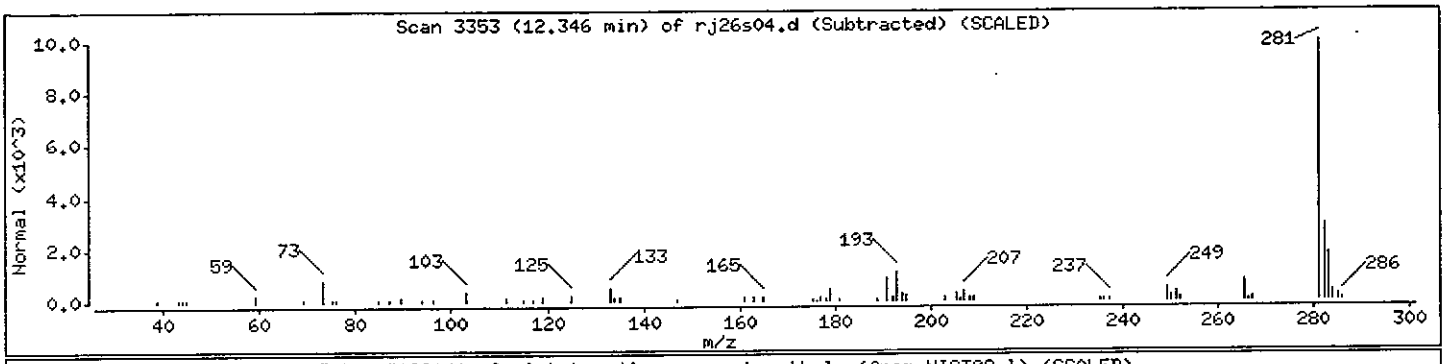
Operator: JML01693

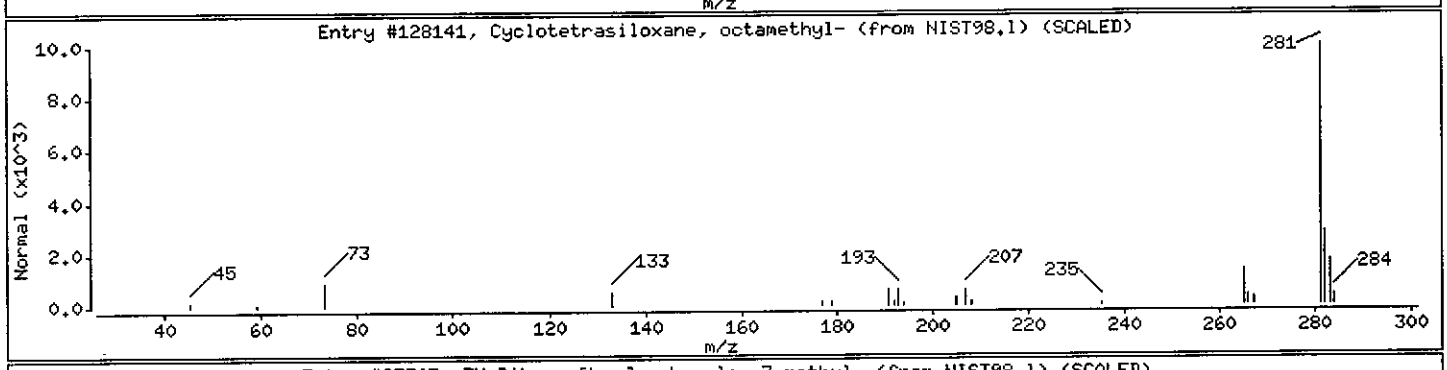
Column phase: DB-624

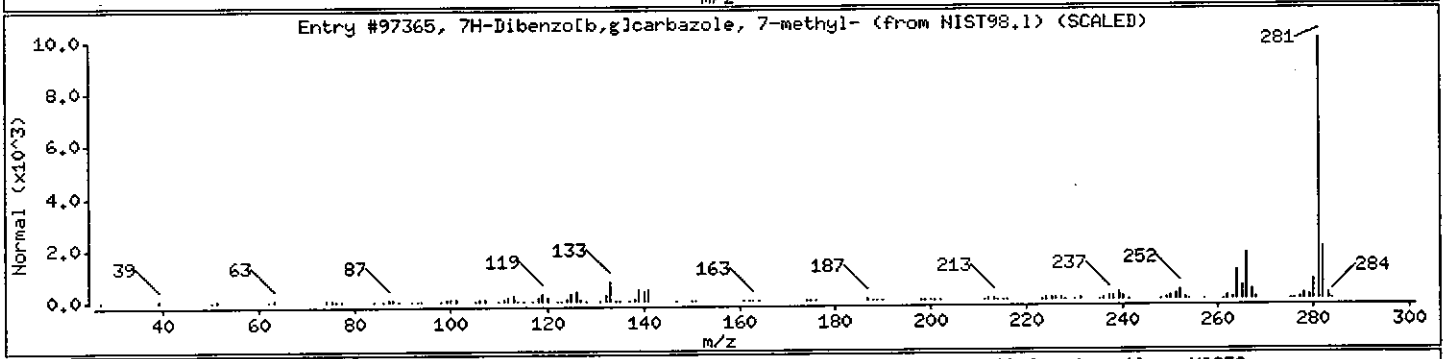
Column diameter: 0.25

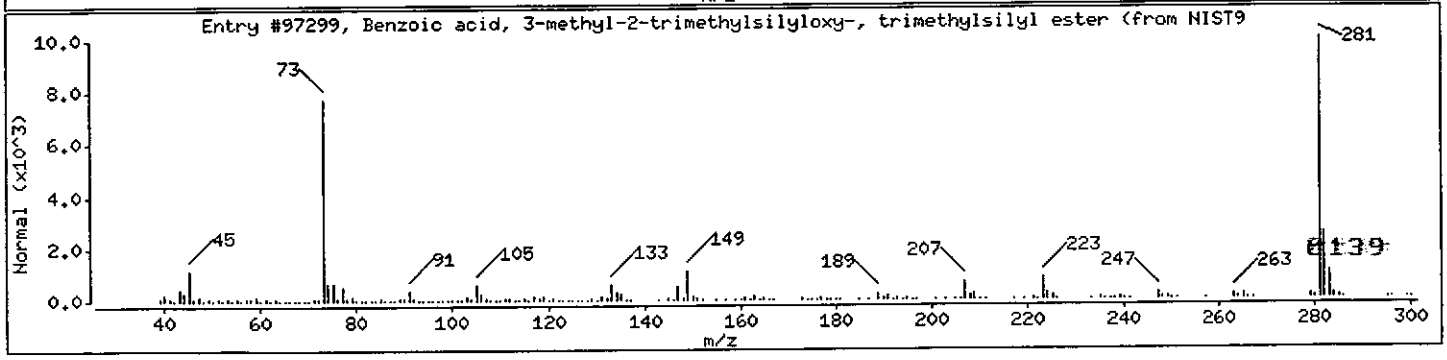
Review Code:

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotetrasiloxane, octamethyl-	556-67-2	NIST98.1	128141	64	C8H24O4Si4	296
7H-Dibenzo[b,g]carbazole, 7-methyl-	3557-49-1	NIST98.1	97365	64	C21H15N	281
Benzoic acid, 3-methyl-2-trimethylsilylo	1000153-57-1	NIST98.1	97299	36	C14H24O3Si2	296









1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6007-

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) SOIL Lab Sample ID: 4692568

Sample wt/vol: 6.08 (g/mL) g Lab File ID: HP07566.i/06jan26b.b/rj26s05.d

Level: (low/med) LOW Date Received: 01/20/06

Moisture: not dec. 11 Date Analyzed: 01/26/06

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MDL ug/Kg	Q
74-87-3	Chloromethane	2	U
75-01-4	Vinyl Chloride	2	U
74-83-9	Bromomethane	3	U
75-00-3	Chloroethane	3	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	8	J
75-15-0	Carbon Disulfide	4	J
75-09-2	Methylene Chloride	2	U
75-34-3	1,1-Dichloroethane	0.9	U
540-59-0	1,2-Dichloroethene (Total)	2	U
78-93-3	2-Butanone	6	U
67-66-3	Chloroform	0.9	U
71-55-6	1,1,1-Trichloroethane	0.9	U
56-23-5	Carbon Tetrachloride	0.9	U
71-43-2	Benzene	0.9	U
107-06-2	1,2-Dichloroethane	2	U
79-01-6	Trichloroethene	0.9	U
78-87-5	1,2-Dichloropropane	3	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	0.9	U
108-10-1	4-Methyl-2-Pentanone	3	U
108-88-3	Toluene	2	J
10061-02-6	trans-1,3-Dichloropropene	0.9	U
79-00-5	1,1,2-Trichloroethane	2	U
127-18-4	Tetrachloroethene	0.9	U
591-78-6	2-Hexanone	3	U
124-48-1	Dibromochloromethane	0.9	U
108-90-7	Chlorobenzene	0.9	U
100-41-4	Ethylbenzene	0.9	U
1330-20-7	Xylene (Total)	0.9	U

0148

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6007-

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) SOIL Lab Sample ID: 4692568

Sample wt/vol: 6.08 (g/mL) g Lab File ID: HP07566.i/06jan26b.b/rj26s05.d

Level: (low/med) LOW Date Received: 01/20/06

Moisture: not dec. 11 Date Analyzed: 01/26/06

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MDL ug/Kg	Q
100-42-5	Styrene	0.9	U
75-25-2	Bromoform	0.9	U
79-34-5	1,1,2,2-Tetrachloroethane	0.9	U

0141

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

6007-

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) SOIL Lab Sample ID: 4692568

Sample wt/vol: 6.08 (g/mL) g Lab File ID: HP07566.i/06jan26b.b/rj26s05.d

Level: (low/med) LOW Date Received: 01/20/06

% Moisture: not dec. 11 Date Analyzed: 01/26/06

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 9

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	2.34	290	J
2. 78-78-4	Butane, 2-methyl-	2.85	34	NJ
3. 109-66-0	Pentane	3.14	26	NJ
4. 107-83-5	Pentane, 2-methyl-	4.40	11	NJ
5.	Unknown aliphatic	4.79	6	J
6. 110-54-3	Hexane	5.20	10	NJ
7. 96-37-7	Cyclopentane, methyl-	6.10	5	NJ
8. 110-82-7	Cyclohexane	7.04	7	NJ
9.	Unknown siloxane	12.34	6	J B
10.				
11.				
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8142

FORM I VOA-TIC

OLM03.0

6007-

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

4692568

File: /chem/HP07566.i/06jan26b.b/rj26s05.d
Sample: 6007-;4692568;2;0;;
Injected At:26-JAN-2006 20:54
Calibration Time: 29-JUN-2005 10:37
Target Method: ROLM32SL.m
Blank Reference: rj26b01.d
Sublist: 7157

Sample Concentration Formula: On-Column Amount * (Vt/Ws)
Batch:R060261AA
Analyst:JML01693
Instrument ID:HP07566.i
Standard Reference: rj26c01.d
Prep Factor:0.82
Units: ug/Kg

Matrix: SOIL
Level: Low
Sample Wt./Vol.: 6.0800 g (Ws)
Volume Purged: 5.0 ml (Vt)

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
43) Bromochloromethane	6.572(0.001)	1553	128	100656(-21)	50.00	
58) 1,4-Difluorobenzene	7.961(-0.002)	1986	114	638447(-22)	50.00	
91) Chlorobenzene-d5	11.252(0.001)	3012	117	516775(-32)	50.00	

= 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
50) 1,2-Dichloroethane-d4	(1)	7.358(-0.001)	65	364436	54.558	109%		70 - 121
78) Toluene-d8	(3)	9.821(0.000)	98	765206	55.945	112%		84 - 138
103) 4-Bromofluorobenzene	(3)	12.237(0.000)	95	205291	37.070	74%		59 - 113

= 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	LOQ
2) Chloromethane	(1)				ND	ND			1.64	8.22
3) Vinyl Chloride	(1)				ND	ND			1.64	8.22
5) Bromomethane	(1)				ND	ND			2.47	8.22
6) Chloroethane	(1)				ND	ND			2.47	8.22
10) 1,1-Dichloroethene	(1)				ND	ND			1.64	8.22
16) Acetone	(1)	3.710(0.001)	43	20202	8.630	7.10		J	5.76	8.22
18) Carbon Disulfide	(1)	3.996(0.001)	76	68091	4.039	3.32		J	2.47	8.22
22) Methylene Chloride	(1)				ND	ND			1.64	8.22
26) trans-1,2-Dichloroethene	(1)				ND	ND			1.64	8.22
31) 1,1-Dichloroethane	(1)				ND	ND			0.82	8.22
37) cis-1,2-Dichloroethene	(1)				ND	ND			1.64	8.22
40) 2-Butanone	(1)				ND	ND			5.76	8.22
45) Chloroform	(1)				ND	ND			0.82	8.22
46) 1,1,1-Trichloroethane	(2)				ND	ND			0.82	8.22
49) Carbon Tetrachloride	(2)				ND	ND			0.82	8.22
38) 1,2-Dichloroethene (Total)	(1)				ND	ND			1.64	8.22
52) Benzene	(2)				ND	ND			0.82	8.22
53) 1,2-Dichloroethane	(1)				ND	ND			1.64	8.22
61) Trichloroethene	(2)				ND	ND			0.82	8.22
66) 1,2-Dichloropropane	(2)				ND	ND			2.47	8.22
71) Bromodichloromethane	(2)				ND	ND			1.64	8.22
75) cis-1,3-Dichloropropene	(2)				ND	ND			0.82	8.22
76) 4-Methyl-2-Pentanone	(3)				ND	ND			2.47	8.22
80) Toluene	(3)	9.895(0.000)	91	35423	1.823	1.50		J	0.82	8.22

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

6007-

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

4692568

File: /chem/HP07566.i/06jan26b.b/rj26s05.d
Sample: 6007-;4692568;2;0;;
Injected At:26-JAN-2006 20:54
Calibration Time: 29-JUN-2005 10:37
Target Method: ROLM32SL.m
Blank Reference: rj26b01.d
Sublist: 7157

Sample Concentration Formula: On-Column Amount * (Vt/Ws)
Batch:R060261AA
Analyst:JML01693
Instrument ID:HP07566.i
Standard Reference: rj26c01.d
Prep Factor:0.82
Units: ug/Kg

Matrix: SOIL
Level: Low
Sample Wt./Vol.: 6.0800 g (Ws)
Volume Purged: 5.0 ml (Vt)

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
81) trans-1,3-Dichloropropene	(2)					ND	ND			0.82	8.22
83) 1,1,2-Trichloroethane	(2)					ND	ND			1.64	8.22
85) Tetrachloroethene	(3)					ND	ND			0.82	8.22
87) 2-Hexanone	(3)					ND	ND			2.47	8.22
88) Dibromochloromethane	(2)					ND	ND			0.82	8.22
92) Chlorobenzene	(3)					ND	ND			0.82	8.22
94) Ethylbenzene	(3)					ND	ND			0.82	8.22
95) m+p-Xylene	(3)					ND	ND			0.82	8.22
96) Xylene (Total)	(3)					ND	ND			0.82	8.22
97) o-Xylene	(3)					ND	ND			0.82	8.22
98) Styrene	(3)					ND	ND			0.82	8.22
99) Bromoform	(2)					ND	ND			0.82	8.22
108) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			0.82	8.22

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

Comments: SB9335

Analyst: [signature] Date: 2/06

Auditor: [signature] Date: 2/26/06

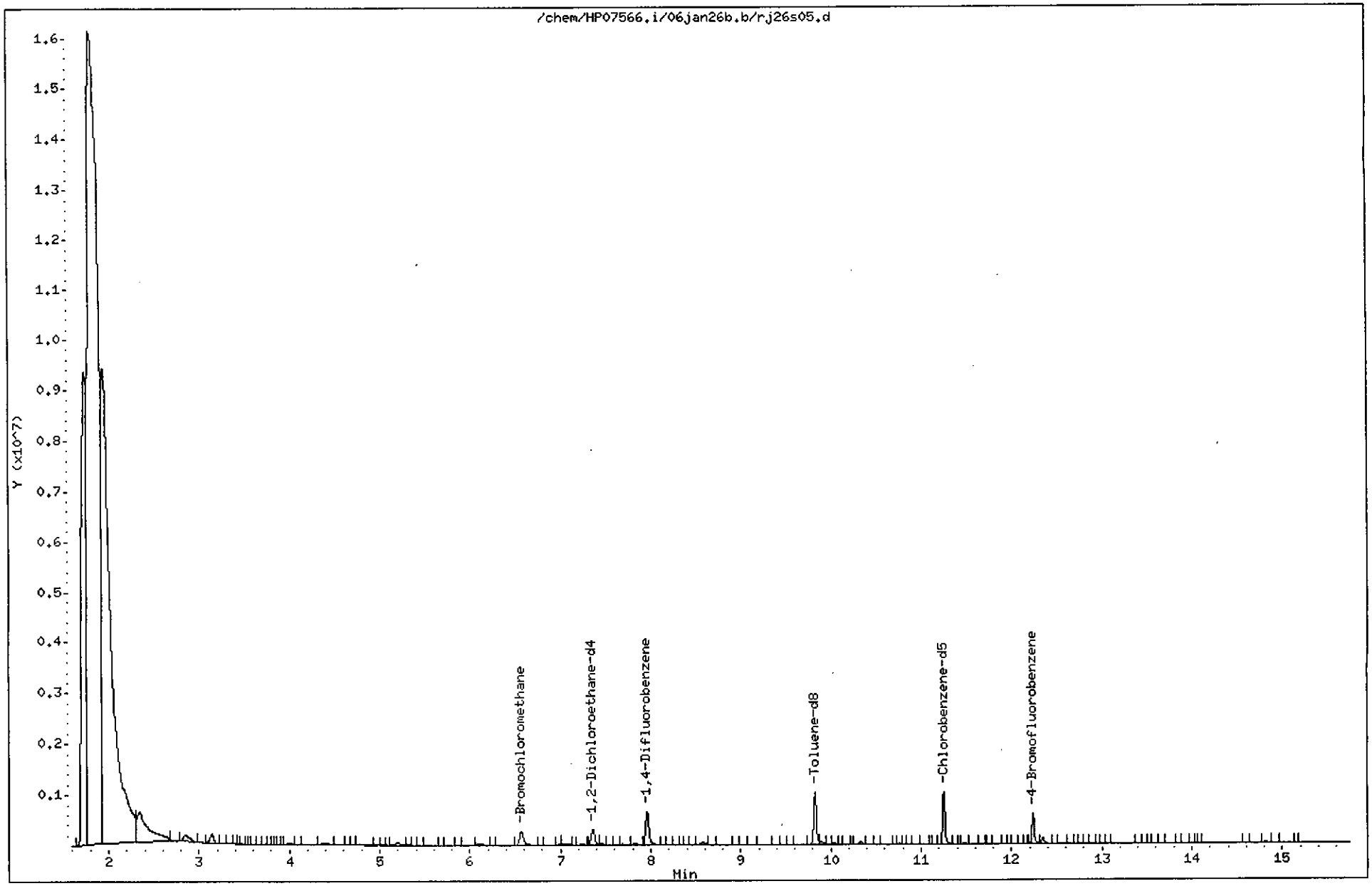
0144

Data File: /chem/HP07566.i/06jan26b.b/rj26s05.d
Date : 26-JAN-2006 20:54
Client ID: 6007-
Sample Info: 6007-:4692568:2:0::

Column phase: DB-624

Instrument: HP07566.i

Operator: JML01693
Column diameter: 0.25



Quant Report

Target Revision 3.5

Data File: /chem/HP07566.i/06jan26b.b/rj26s05.d Instrument ID: HP07566.i
Injection date and time: 26-JAN-2006 20:54 Analyst ID: JML01693

Method used: /chem/HP07566.i/06jan26b.b/ROLM32SL.m Sublist used: 7157
Calibration date and time: 29-JUN-2005 10:37
Date, time and analyst ID of latest file update: 31-Jan-2006 08:14 sam00983

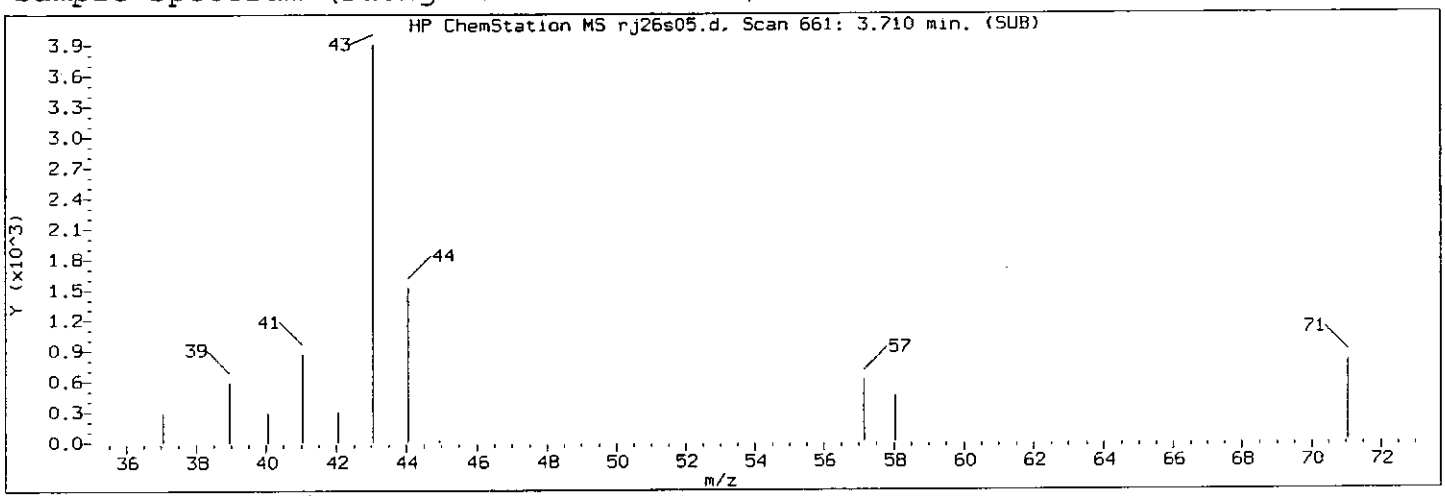
Sample Name: 6007- Lab Sample ID: 4692568

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
16) Acetone	(1)	3.710	43	20202M	8.630
18) Carbon Disulfide	(1)	3.996	76	68091	4.039
43)*Bromochloromethane	(1)	6.572	128	100656	50.000
58)*1,4-Difluorobenzene	(2)	7.961	114	638447	50.000
80) Toluene	(3)	9.895	91	35423	1.823
91)*Chlorobenzene-d5	(3)	11.252	117	516775	50.000
50)$1,2-Dichloroethane-d4	(1)	7.358	65	364436	54.558
78)$Toluene-d8	(3)	9.821	98	765206	55.945
103)$4-Bromofluorobenzene	(3)	12.237	95	205291	37.070

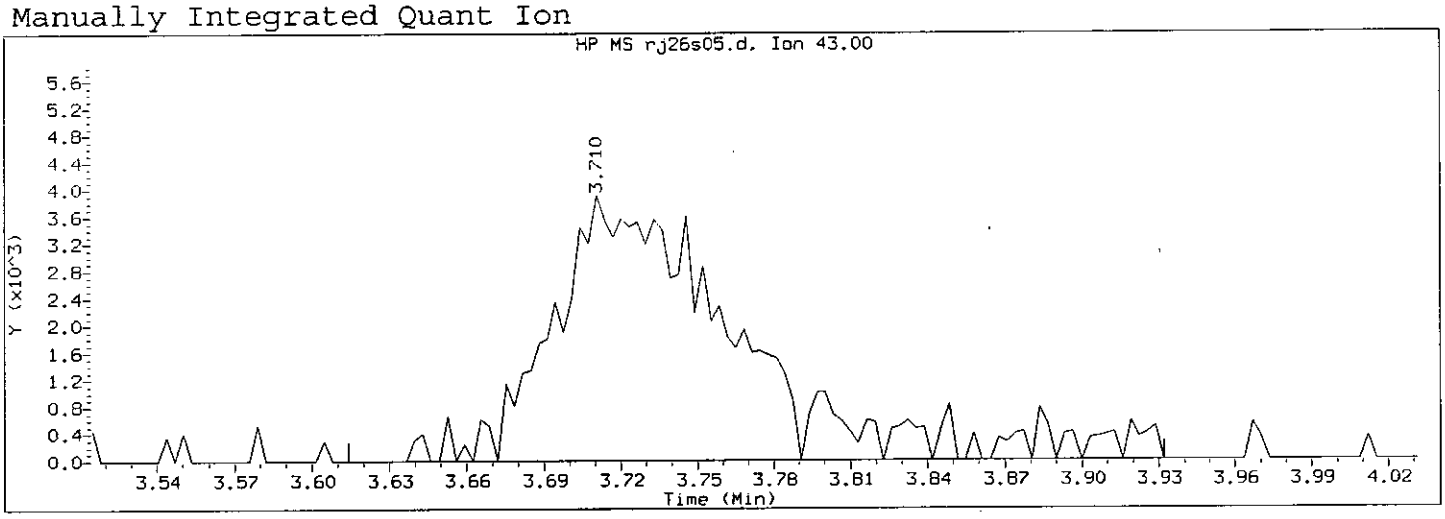
M = Compound was manually integrated.

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP07566.i/06jan26b.b/rj26s05.d Instrument ID: HP07566.i
Injection date and time: 26-JAN-2006 20:54 Analyst ID: JML01693

Method used: /chem/HP07566.i/06jan26b.b/ROLM32SL.m Sublist used: 7157
Calibration date and time: 26-JAN-2006 18:08
Date, time and analyst ID of latest file update: 31-Jan-2006 08:14 sam00983

Sample Name: 6007- Lab Sample ID: 4692568

Compound Number : 16
Compound Name : Acetone
Scan Number : 661
Retention Time (minutes): 3.710
Quant Ion : 43
Area (flag) : 20202 M
Concentration (ug/Kg) : 8.6297
Integration start scan : 630 Integration stop scan: 729
Y at integration start : 0 Y at integration end: 0

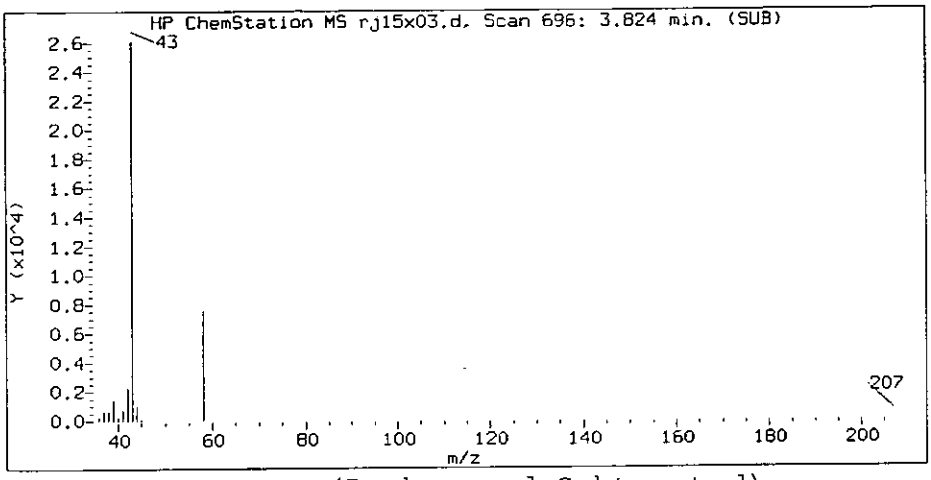
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: _____ 1/31/06

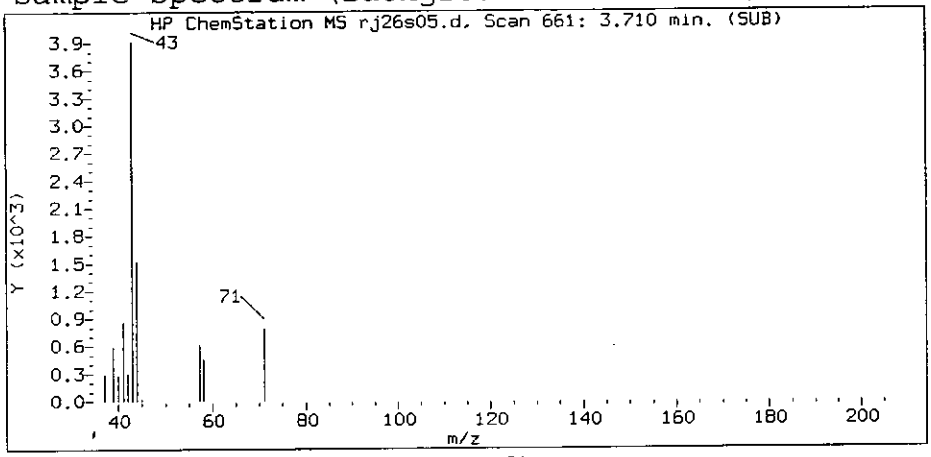
GC/MS audit/management approval: _____ 2/2/06

Manual Integration Report for data file /chem/HP07566.i/06jan26b.b/rj26s05.d, generated on 01/31/2006 at 08:14

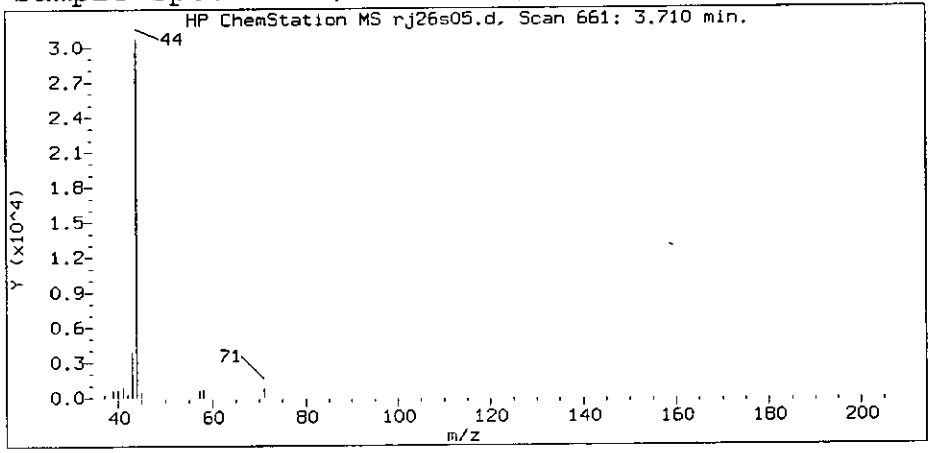
Reference Standard Spectrum for Acetone

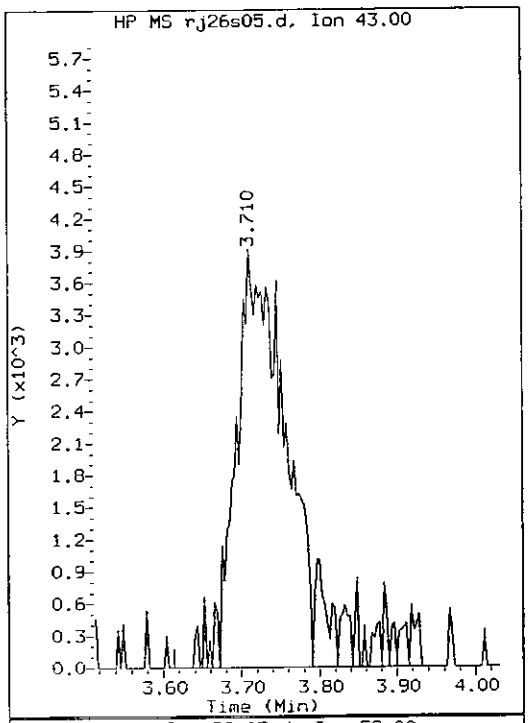


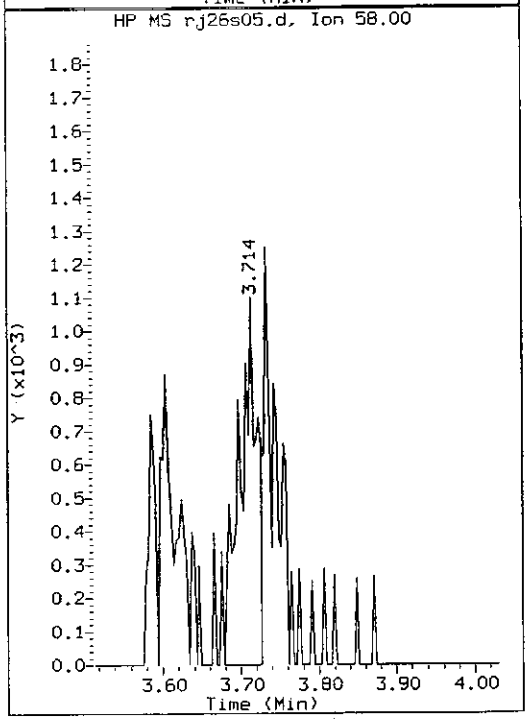
Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)







Data File: /chem/HP07566.i/06jan26b.b/rj26s05.d
Injection date and time: 26-JAN-2006 20:54

Instrument ID: HP07566.i
Analyst ID: JML01693

Method used: /chem/HP07566.i/06jan26b.b/ROLM32SL.m Sublist used: 7157
Calibration date and time: 26-JAN-2006 18:08
Date, time and analyst ID of latest file update: 31-Jan-2006 08:14 sam00983

Sample Name: 6007-

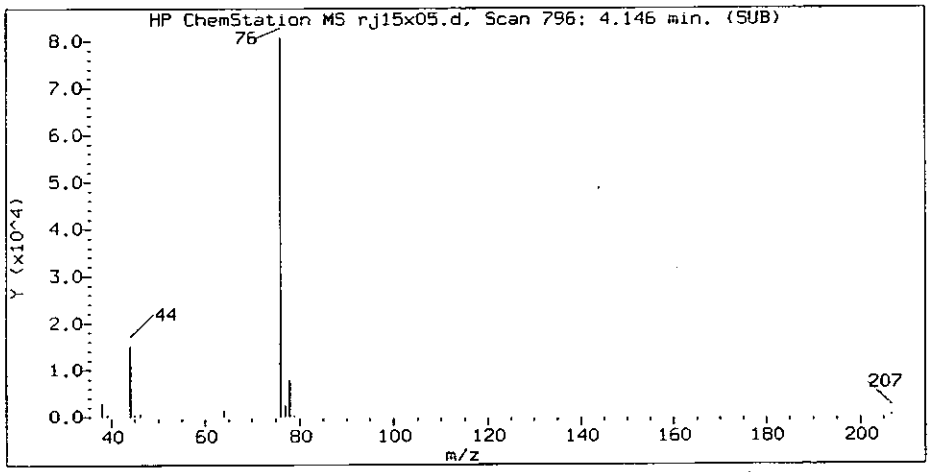
Lab Sample ID: 4692568

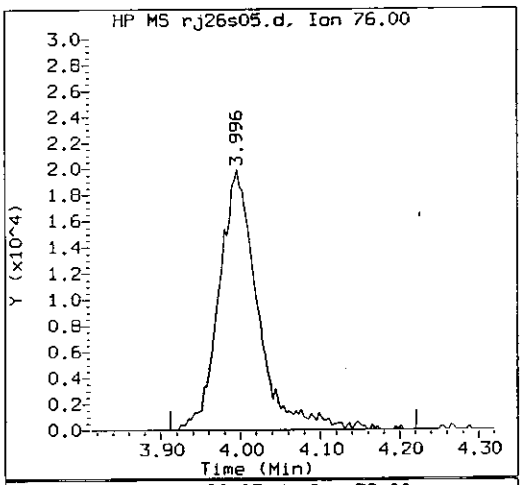
Compound Number	: 16
Compound Name	: Acetone
Scan Number	: 661
Retention Time (minutes)	: 3.710
Quant Ion	: 43.0
Area (flag)	: 20202 M
Concentration (ug/Kg)	: 8.6297

8148

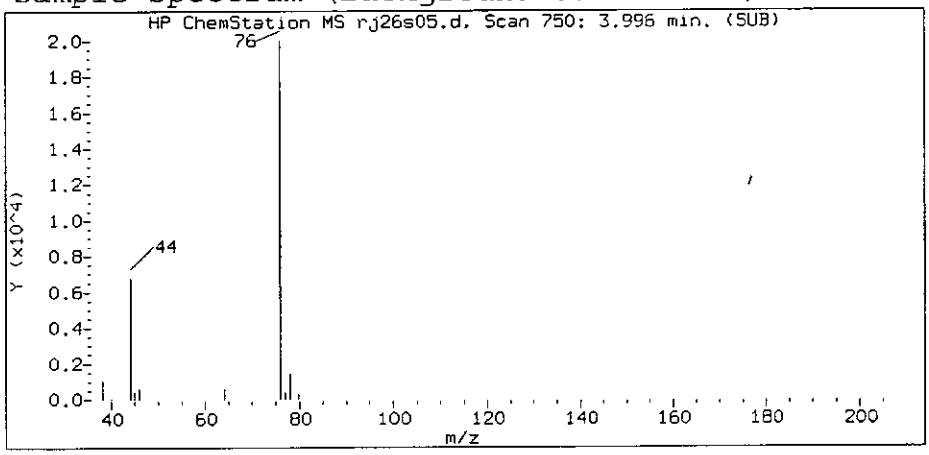
Hit Data Report for data file /chem/HP07566.i/06jan26b.b/rj26s05.d, generated on 01/31/2006 at 08:14

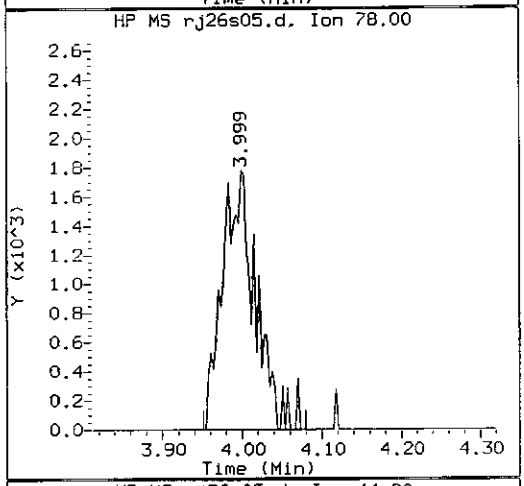
Reference Standard Spectrum for Carbon Disulfide



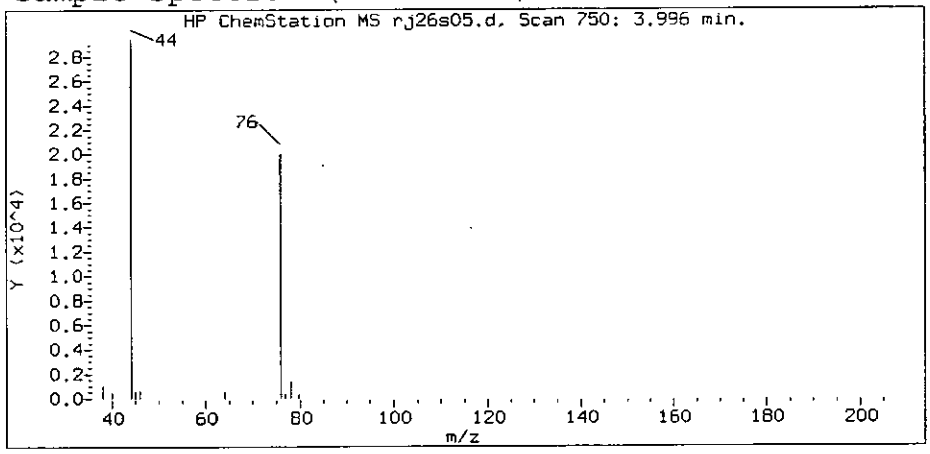


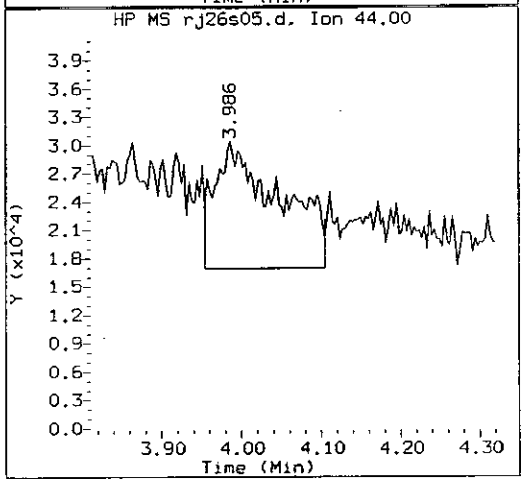
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP07566.i/06jan26b.b/rj26s05.d
Injection date and time: 26-JAN-2006 20:54

Instrument ID: HP07566.i
Analyst ID: JML01693

Method used: /chem/HP07566.i/06jan26b.b/ROLM32SL.m Sublist used: 7157
Calibration date and time: 26-JAN-2006 18:08
Date, time and analyst ID of latest file update: 31-Jan-2006 08:14 sam00983

Sample Name: 6007-

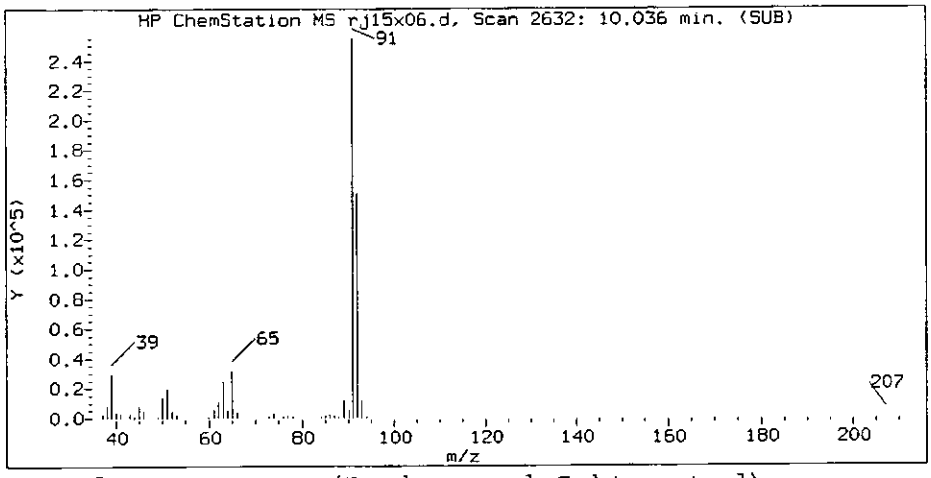
Lab Sample ID: 4692568

Compound Number	: 18
Compound Name	: Carbon Disulfide
Scan Number	: 750
Retention Time (minutes)	: 3.996
Quant Ion	: 76.0
Area (flag)	: 68091
Concentration (ug/Kg)	: 4.0387

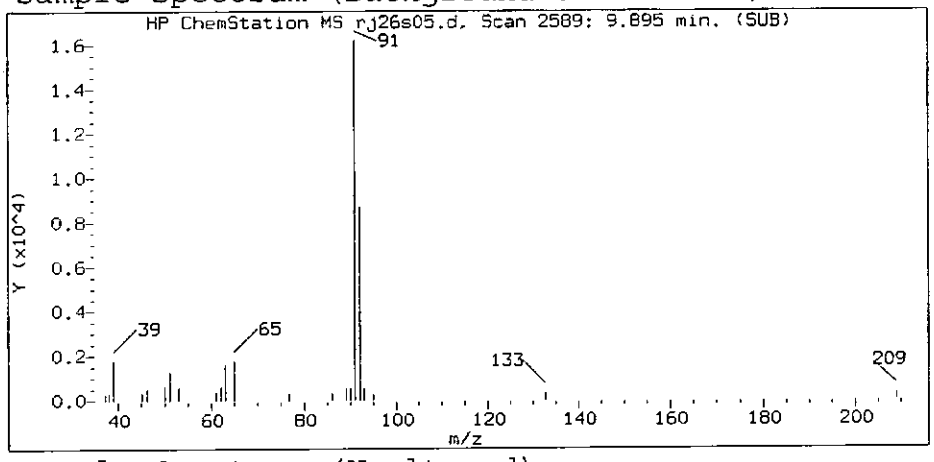
8149

Hit Data Report for data file /chem/HP07566.i/06jan26b.b/rj26s05.d, generated on 01/31/2006 at 08:14

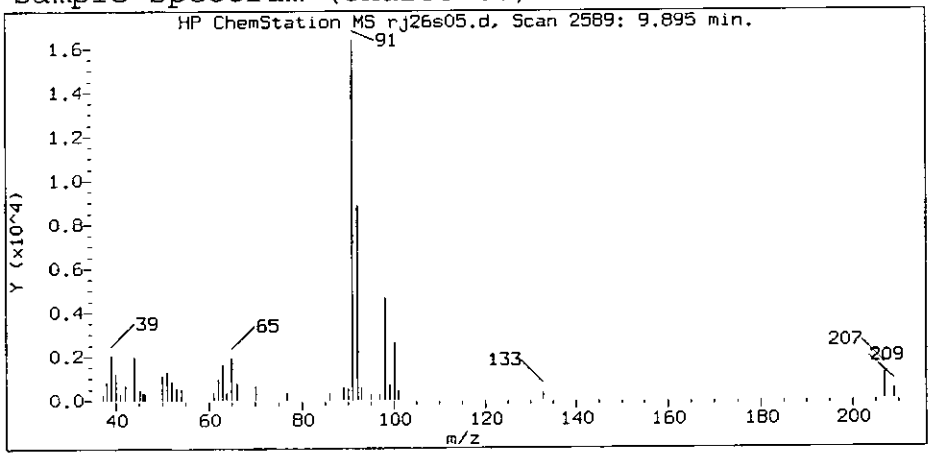
Reference Standard Spectrum for Toluene

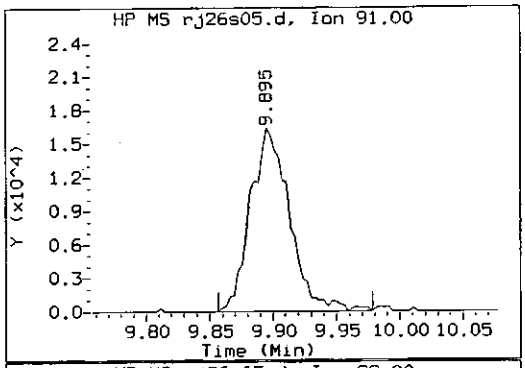


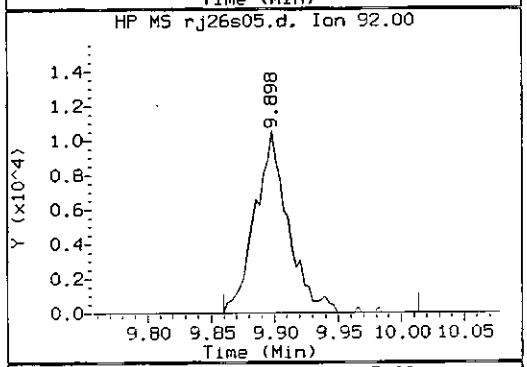
Sample Spectrum (Background Subtracted)

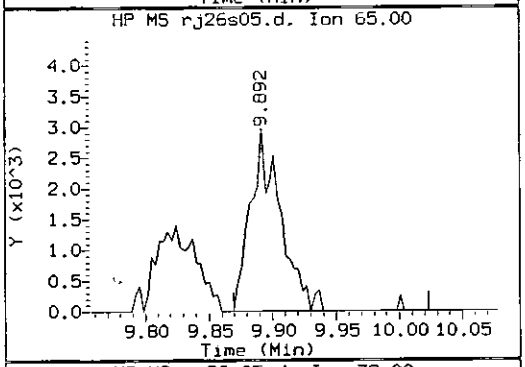


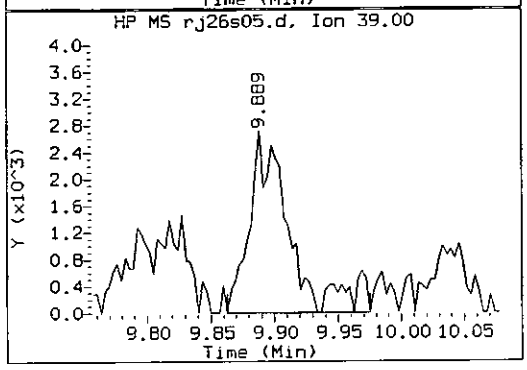
Sample Spectrum (Unaltered)











Data File: /chem/HP07566.i/06jan26b.b/rj26s05.d
Injection date and time: 26-JAN-2006 20:54

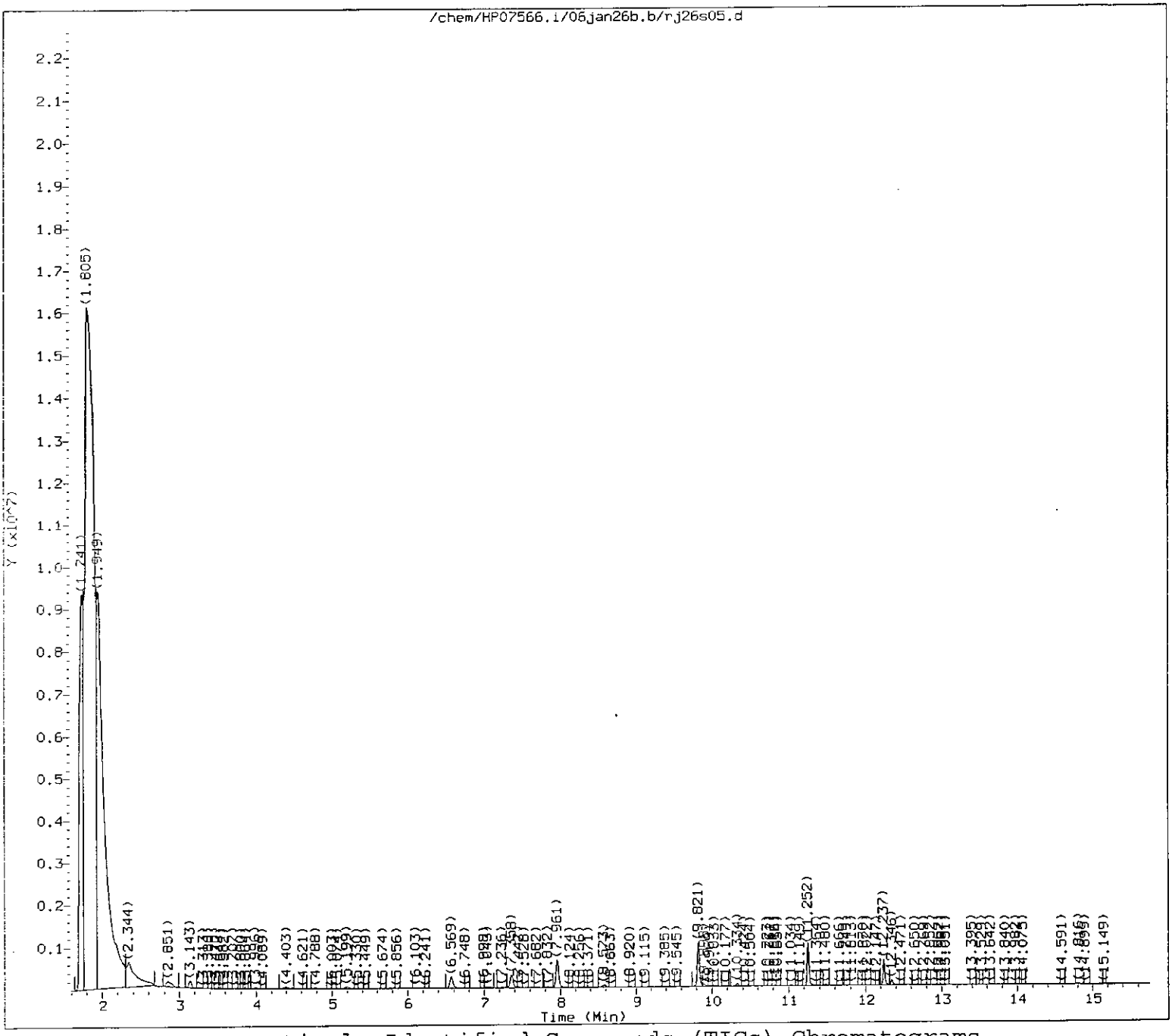
Instrument ID: HP07566.i
Analyst ID: JML01693

Method used: /chem/HP07566.i/06jan26b.b/ROLM32SL.m Sublist used: 7157
Calibration date and time: 26-JAN-2006 18:08
Date, time and analyst ID of latest file update: 31-Jan-2006 08:14 sam00983

Sample Name: 6007-

Lab Sample ID: 4692568

Compound Number	: 80
Compound Name	: Toluene
Scan Number	: 2589
Retention Time (minutes)	: 9.895
Quant Ion	: 91.0
Area (flag)	: 35423
Concentration (ug/Kg)	: 1.8231



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP07566.i/06jan26b.b/rj26s05.d Instrument ID: HP07566.i
Injection date and time: 26-JAN-2006 20:54 Analyst ID: JML01693

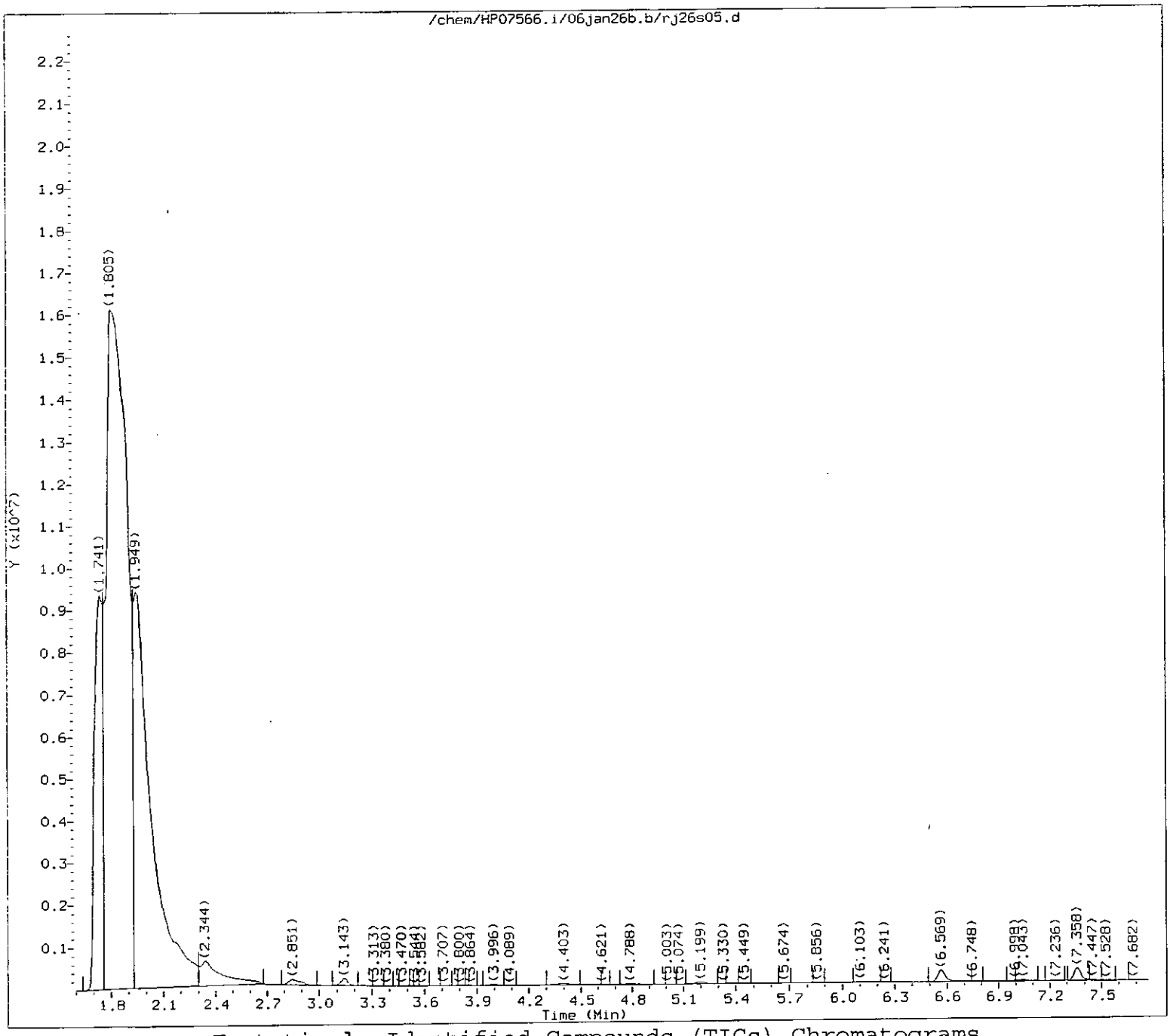
Date, time and analyst ID of latest file update: 31-Jan-2006 08:14 sam00983

Sample Name: 6007- Lab Sample ID: 4692568

Chromatogram Start Time (min.): 1.593
Chromatogram End Time (min.): 15.749

0151

1/31/06



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP07566.i/06jan26b.b/rj26s05.d Instrument ID: HP07566.i
Injection date and time: 26-JAN-2006 20:54 Analyst ID: JML01693

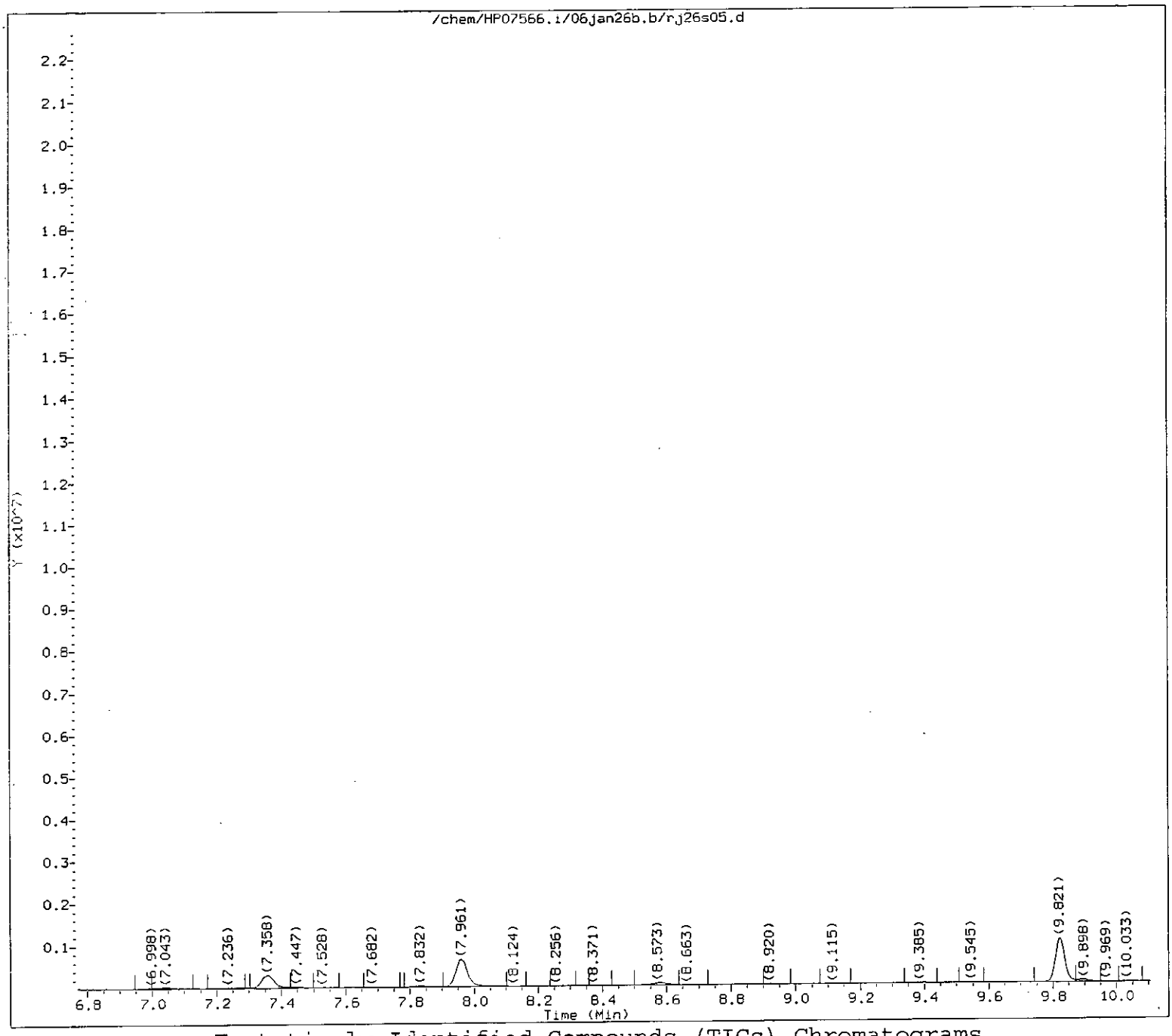
Date, time and analyst ID of latest file update: 31-Jan-2006 08:14 sam00983

Sample Name: 6007- Lab Sample ID: 4692568

Internal Standard referenced: Bromochloromethane at 6.572 minutes
Chromatogram Start Time (min.): 1.593
Chromatogram End Time (min.): 7.266

0152

1/31/06



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP07566.i/06jan26b.b/rj26s05.d Instrument ID: HP07566.i
Injection date and time: 26-JAN-2006 20:54 Analyst ID: JML01693

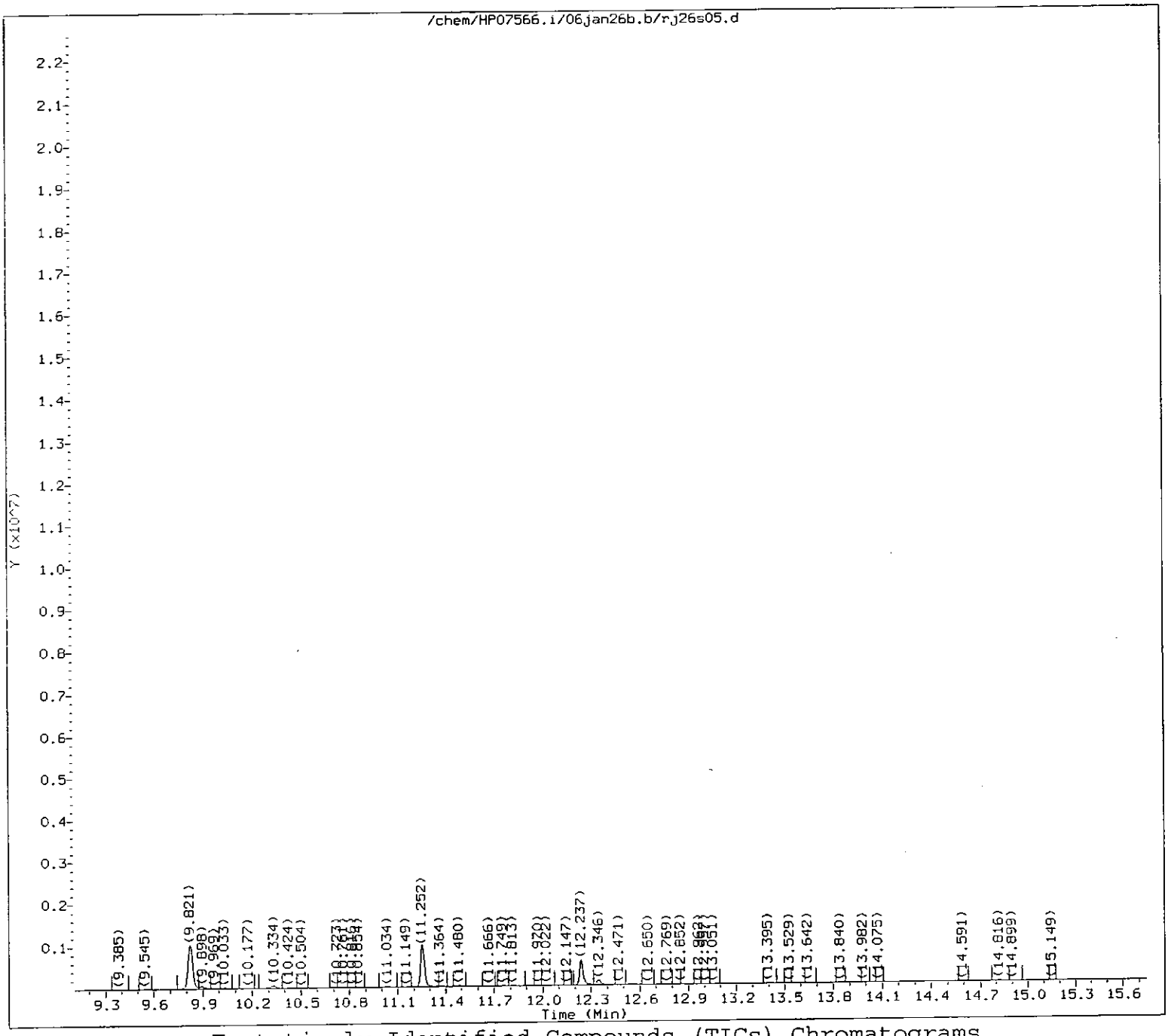
Date, time and analyst ID of latest file update: 31-Jan-2006 08:14 sam00983

Sample Name: 6007- Lab Sample ID: 4692568

Internal Standard referenced: 1,4-Difluorobenzene at 7.961 minutes
Chromatogram Start Time (min.): 7.266
Chromatogram End Time (min.): 9.606

8153

JML 2/1/06



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP07566.i/06jan26b.b/rj26s05.d Instrument ID: HP07566.i
Injection date and time: 26-JAN-2006 20:54 Analyst ID: JML01693

Date, time and analyst ID of latest file update: 31-Jan-2006 08:14 sam00983

Sample Name: 6007- Lab Sample ID: 4692568

Internal Standard referenced: Chlorobenzene-d5 at 11.252 minutes
Chromatogram Start Time (min.): 9.606
Chromatogram End Time (min.): 15.749

~~8154~~

1/31/06

Data File: /chem/HP07566.i/06jan26b.b/rj26s05.d
Report Date: 03-Feb-2006 11:38

Lancaster Laboratories

Data file : /chem/HP07566.i/06jan26b.b/rj26s05.d
Lab Smp Id: 4692568 Client Smp ID: 6007-
Inj Date : 26-JAN-2006 20:54
Operator : JML01693 Inst ID: HP07566.i
Smp Info : 6007-;4692568;2;0;;
Misc Info : 7157.sub;R060261AA;6.08;;5;;rj26b01;193A;
Comment : Max. number of TICs to report is 31, 9 TICs were found initially.
Method : /chem/HP07566.i/06jan26b.b/ROLM32SL.m
Meth Date : 31-Jan-2006 08:01 sam00983 Quant Type: ISTD
Cal Date : 26-JAN-2006 16:59 Cal File: rj26c01.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 7157.sub
Target Version: 3.50
Processing Host: d21cs04

Concentration Formula: Amt * DF * (Vt/Ws) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	5.00000	Purge Volume
Ws	6.08000	Soil Weight

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 43 Bromochloromethane	6.572	847407	50.000
* 91 Chlorobenzene-d5	11.252	1788152	50.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ug/L)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
2.344	5260254	310.373498	255.2414	0		0	43
Butane, 2-methyl-				CAS #: 78-78-4			
2.851	628998	37.1131026	30.52064	91	NIST98.1	109392	43

6155

Data File: /chem/HP07566.i/06jan26b.b/rj26s05.d
Report Date: 03-Feb-2006 11:38

RT	AREA	CONCENTRATIONS ON-COL(ug/L)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Pentane				CAS #: 109-66-0			
3.143	480384	28.3443239	23.30948	90	NIST98.1	4653	43
Pentane, 2-methyl-				CAS #: 107-83-5			
4.403	206226	12.1680461	10.00662	90	NIST98.1	109402	43
Unknown aliphatic				CAS #:			
4.788	102742	6.06215337	4.9853	0		0	43
Hexane				CAS #: 110-54-3			
5.199	190319	11.2294768	9.2348	91	NIST98.1	16315	43
Cyclopentane, methyl-				CAS #: 96-37-7			
6.103	92436	5.45402534	4.4852	80	NIST98.1	111863	43
Cyclohexane				CAS #: 110-82-7			
7.043	123616	7.29376337	5.9982	68	NIST98.1	111959	43
Unknown siloxane				CAS #:			
12.346	233584	6.53144333	5.3712	0		0	91

Data File: /chem/HP07566.i/06jan26b.b/rj26s05.d

Date : 26-JAN-2006 20:54

Client ID: 6007-

Sample Info: 6007-;4692568;2;0;;

Instrument: HP07566.i

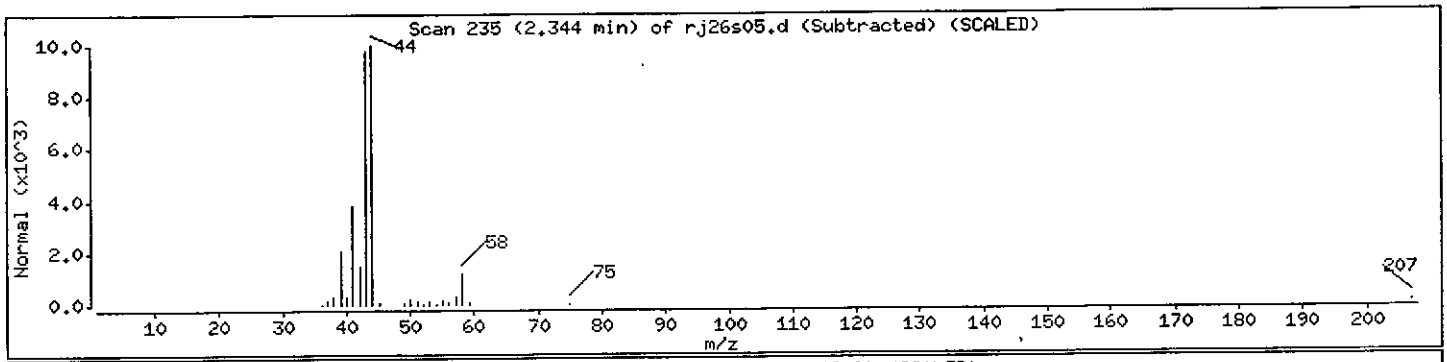
Operator: JML01693

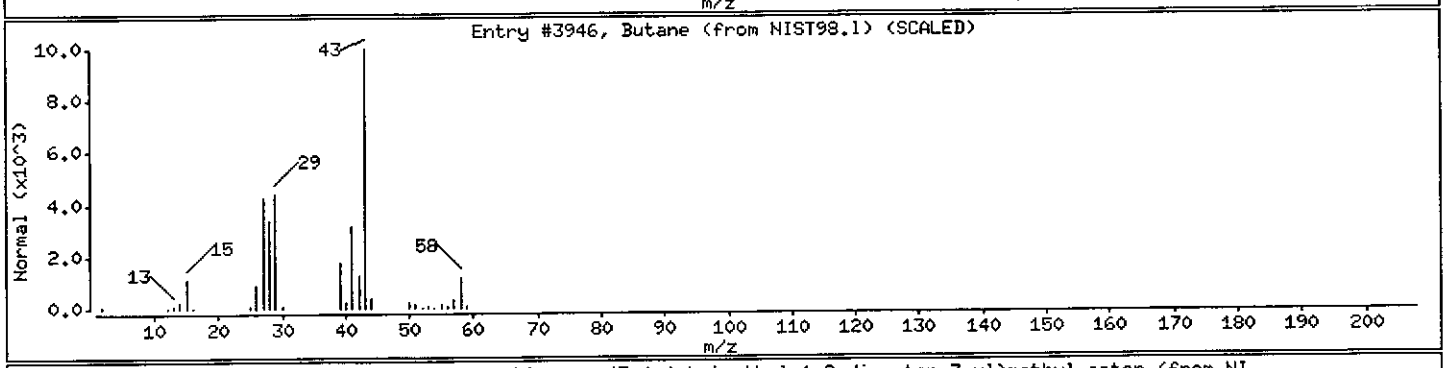
Column phase: DB-624

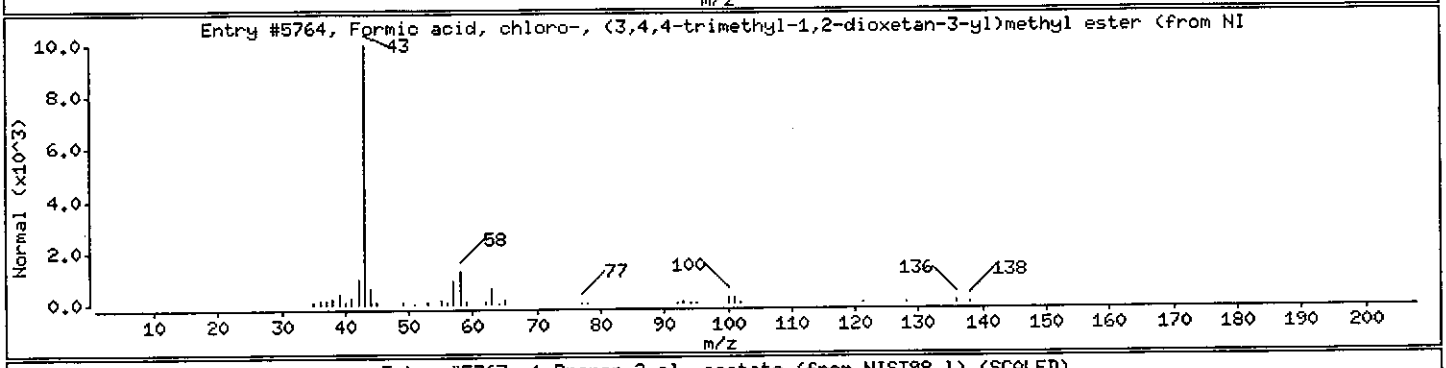
Column diameter: 0.25

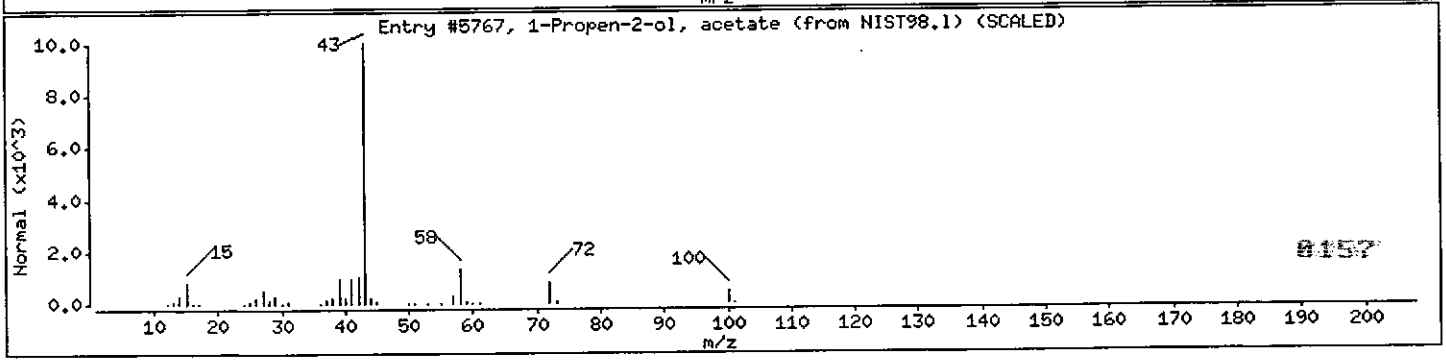
Review Code:

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Butane	106-97-8	NIST98.1	3946	27	C4H10	58
Formic acid, chloro-, (3,4,4-trimethyl-1	107323-92-2	NIST98.1	5764	10	C7H11ClO4	194
1-Propen-2-ol, acetate	108-22-5	NIST98.1	5767	10	C5H8O2	100









0157

Data File: /chem/HP07566.i/06jan26b.b/rj26s05.d

Date : 26-JAN-2006 20:54

Client ID: 6007-

Instrument: HP07566.i

Sample Info: 6007-;4692568;2;0;;

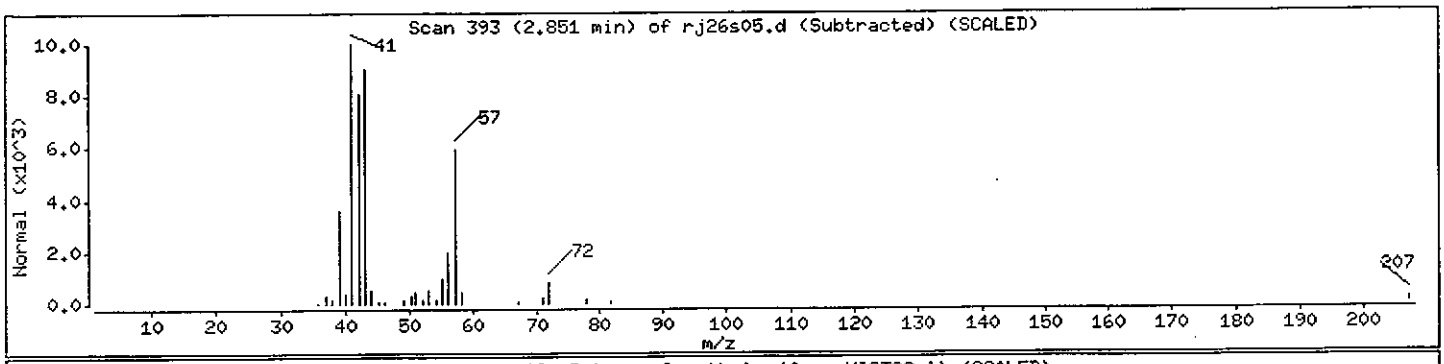
Operator: JHL01693

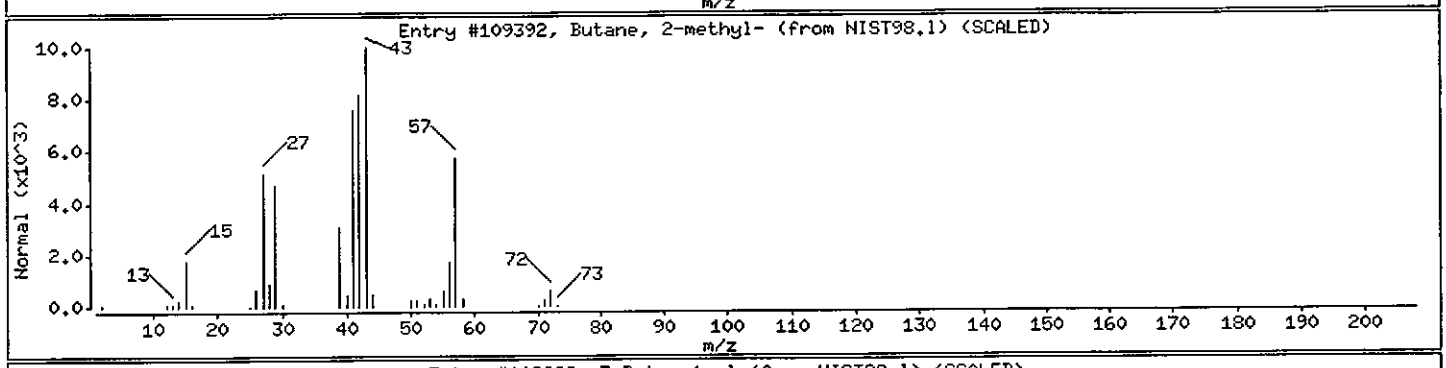
Column phase: DB-624

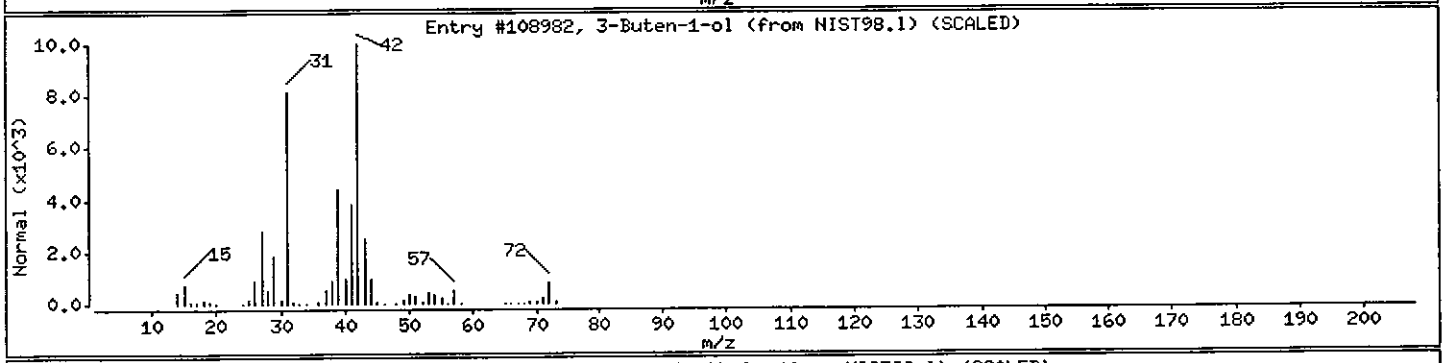
Column diameter: 0.25

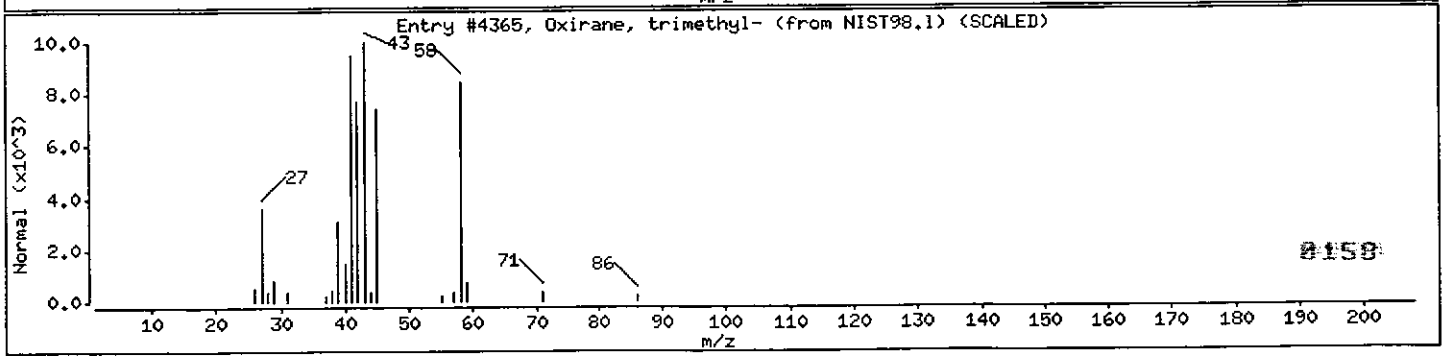
Review Code:

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Butane, 2-methyl-	78-78-4	NIST98.1	109392	91	C5H12	72
3-Buten-1-ol	627-27-0	NIST98.1	108982	43	C4H8O	72
Oxirane, trimethyl-	5076-19-7	NIST98.1	4365	36	C5H10O	86









Data File: /chem/HP07566.i/06jan26b.b/rj26s05.d

Date : 26-JAN-2006 20:54

Client ID: 6007-

Sample Info: 6007-;4692568;2;0;;

Instrument: HP07566.i

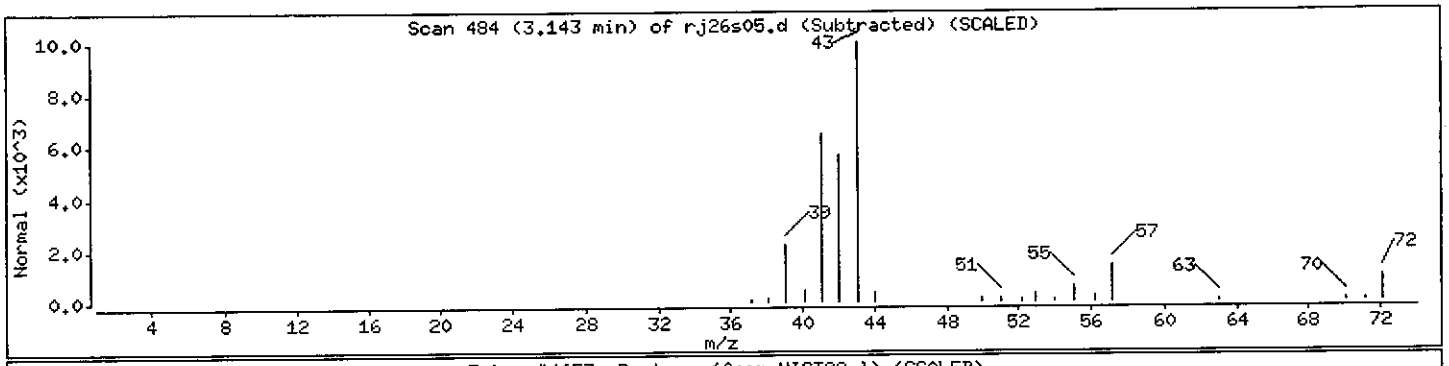
Operator: JML01693

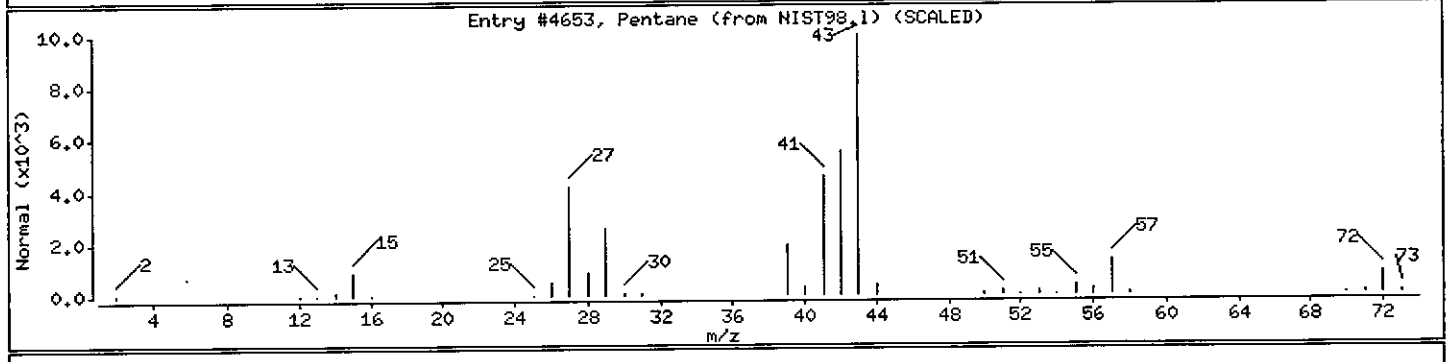
Column phase: DB-624

Column diameter: 0.25

Review Code:

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Pentane	109-66-0	NIST98.1	4653	90	C5H12	72





8159

Data File: /chem/HP07566.i/06jan26b.b/rj26s05.d

Date : 26-JAN-2006 20:54

Client ID: 6007-

Instrument: HP07566.i

Sample Info: 6007-;4692568;2;0;;

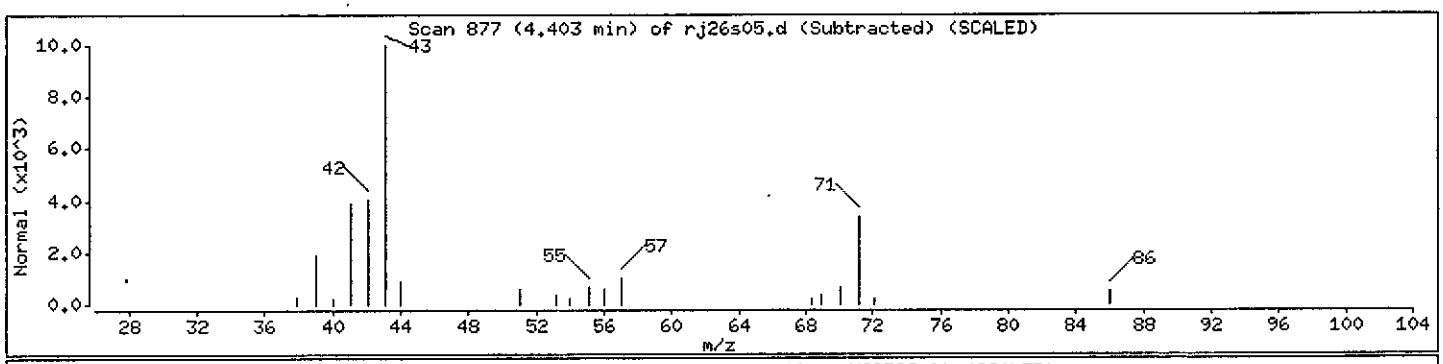
Operator: JML01693

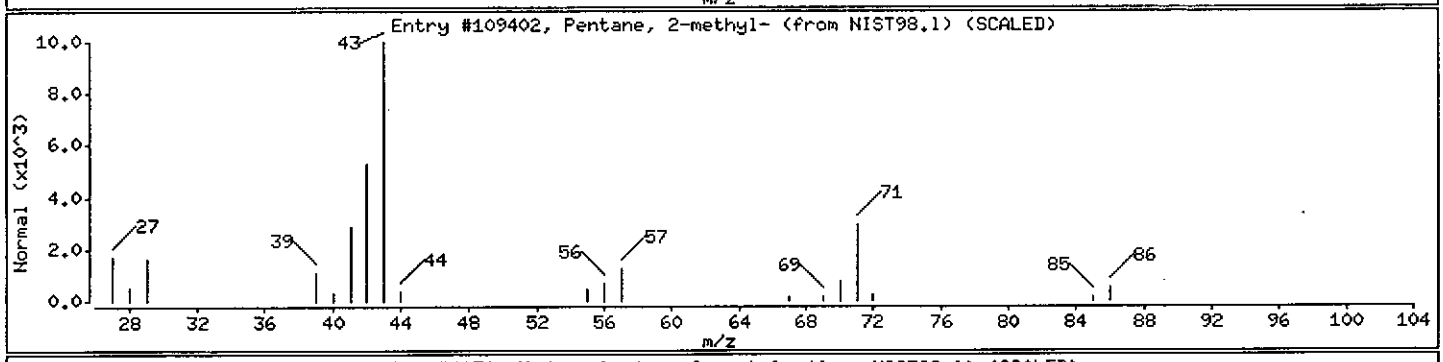
Column phase: DB-624

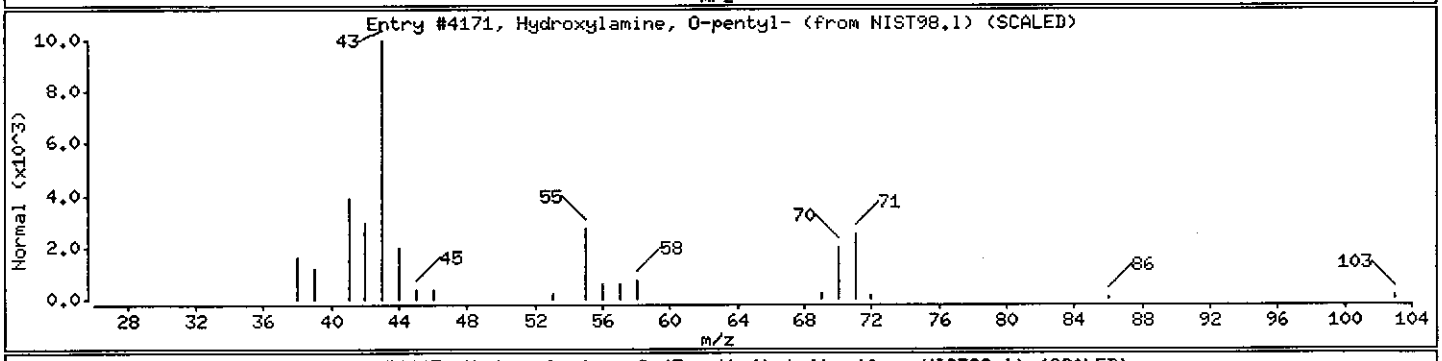
Column diameter: 0.25

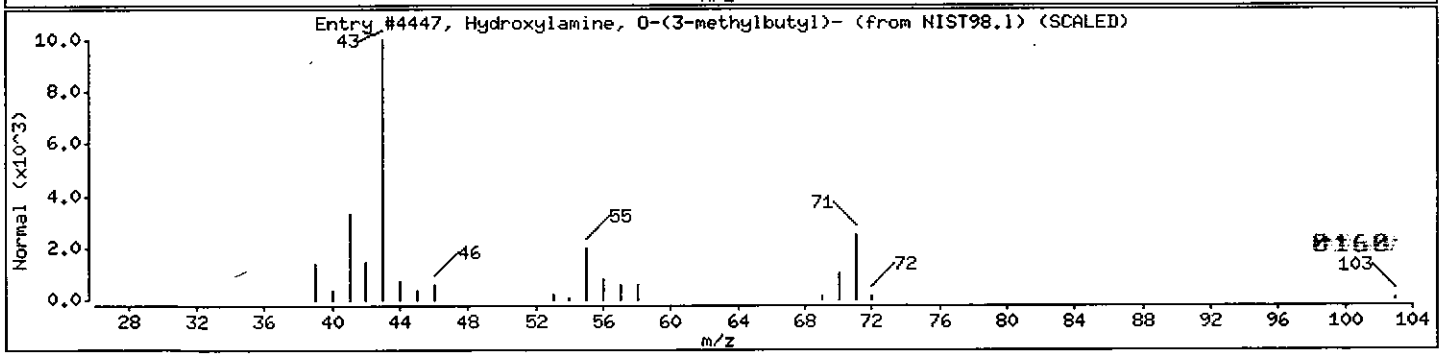
Review Code:

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Pentane, 2-methyl-	107-83-5	NIST98.1	109402	90	C6H14	86
Hydroxylamine, O-pentyl-	5963-74-6	NIST98.1	4171	39	C5H13NO	103
Hydroxylamine, O-(3-methylbutyl)-	19411-65-5	NIST98.1	4447	25	C5H13NO	103









Data File: /chem/HP07566.i/06jan26b.b/rj26s05.d

Date : 26-JAN-2006 20:54

Client ID: 6007-

Sample Info: 6007-;4692568;2;0;;

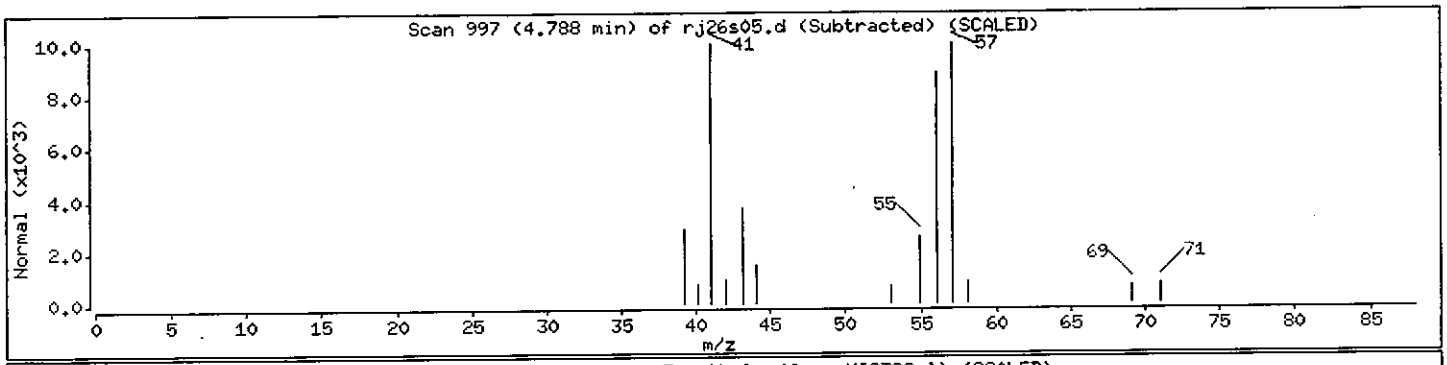
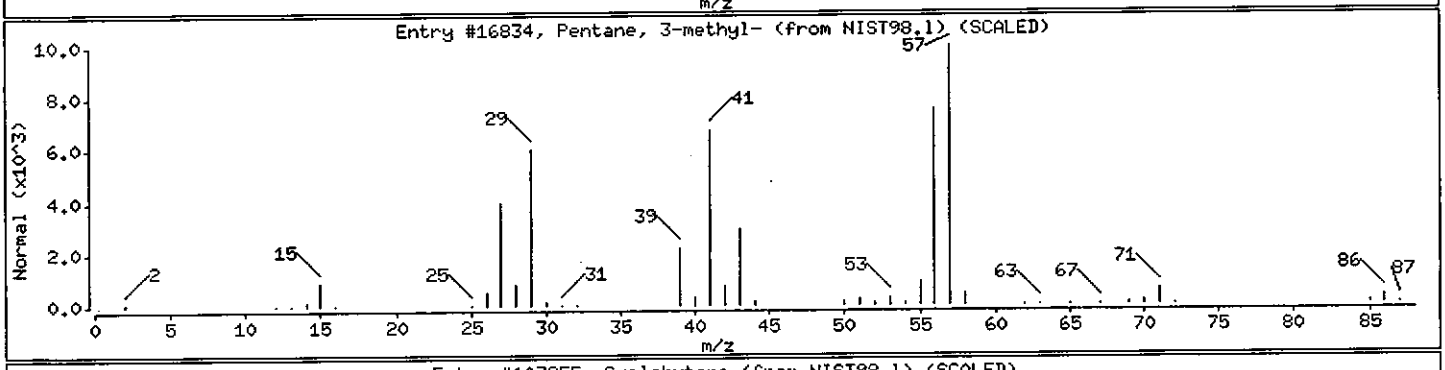
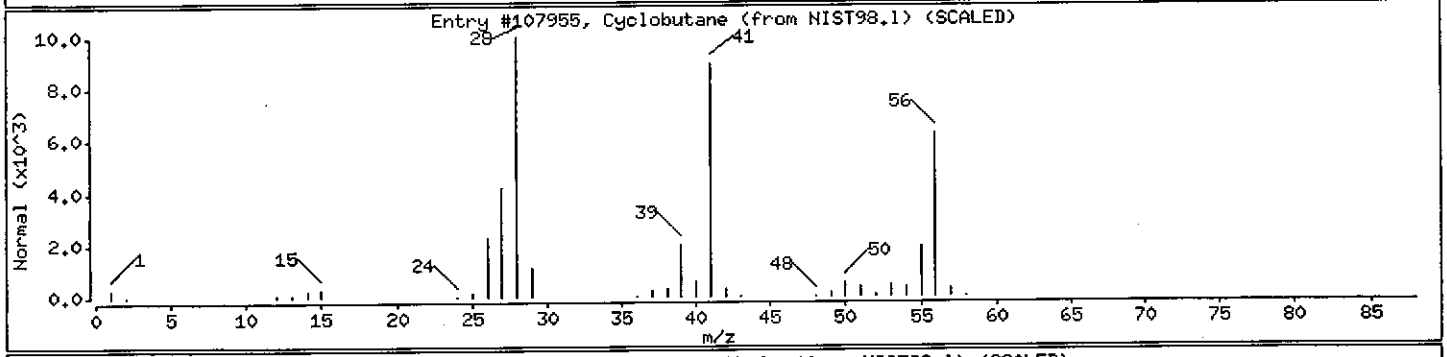
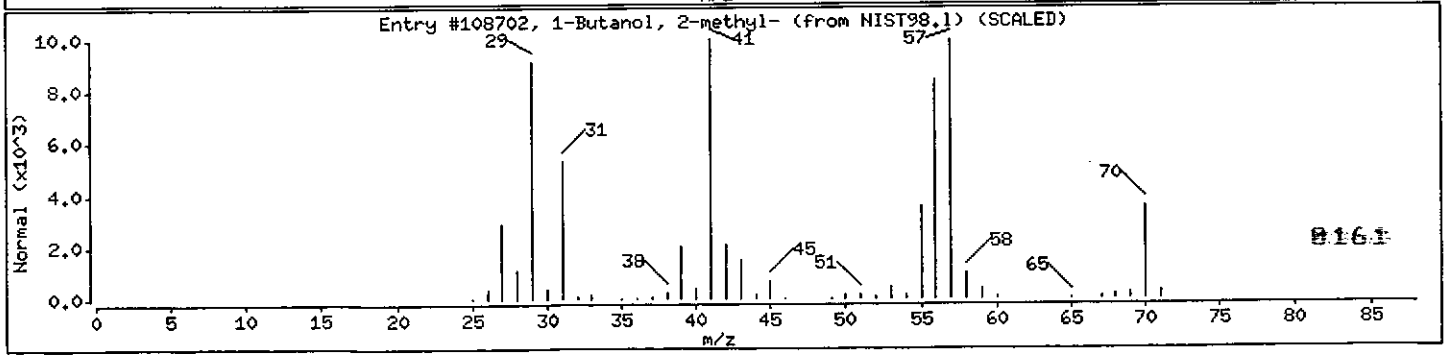
Instrument: HP07566.i

Operator: JML01693

Column phase: DB-624

Column diameter: 0.25

Review Code:

Library Search Compound Match

	CAS Number	Library	Entry	Quality	Formula	Weight
Pentane, 3-methyl-	96-14-0	NIST98.1	16834	64	C6H14	86
Cyclobutane	287-23-0	NIST98.1	107955	42	C4H8	56
1-Butanol, 2-methyl-	137-32-6	NIST98.1	108702	40	C5H12O	88