Data File: /var/chem/gcms/mx.i/X040706.b/h2g971aa.d

Date : 07-APR-2006 13:51

Client ID: G-3010-R2-VOST PAIR

Instrument: mx.i

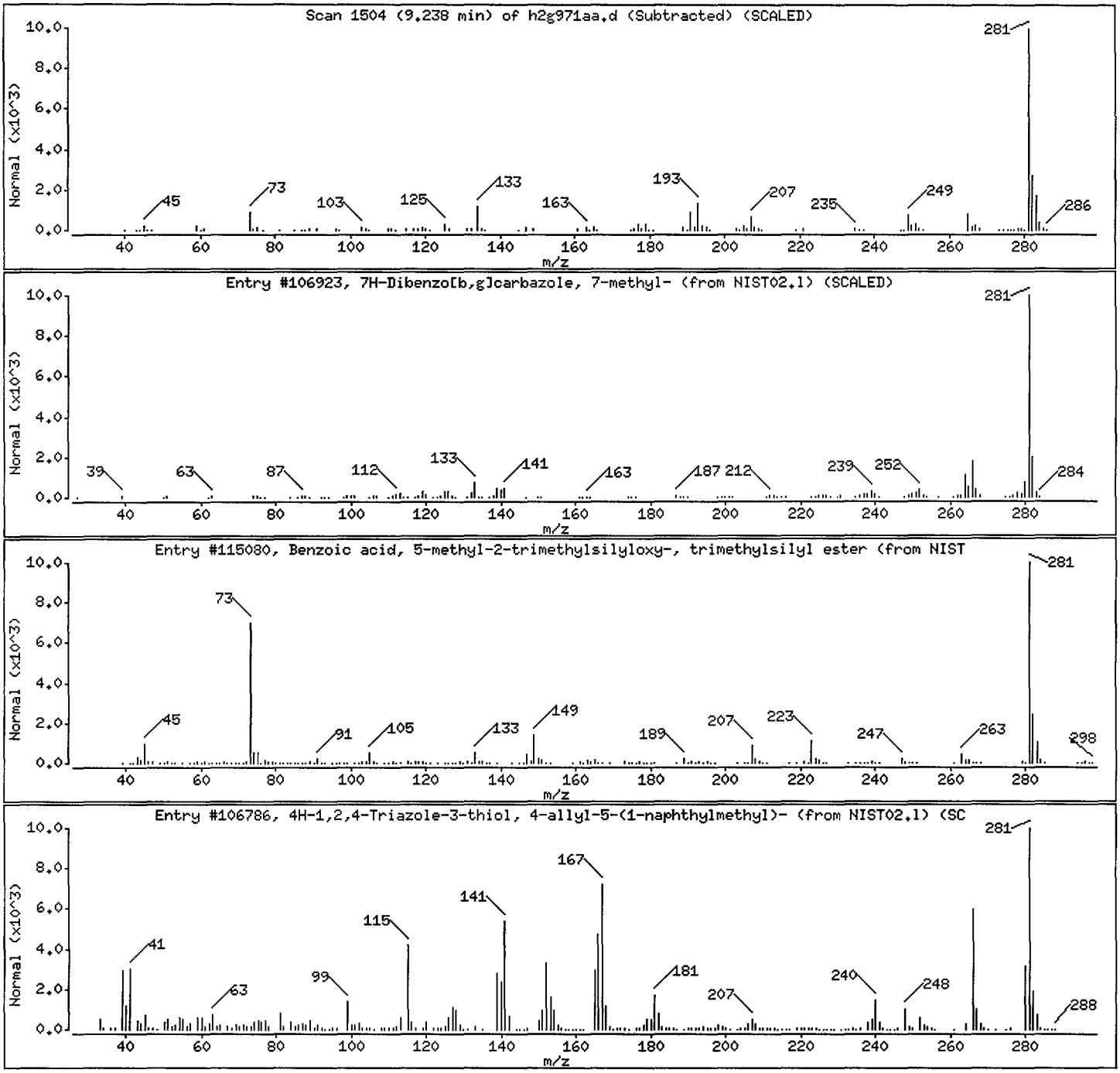
Sample Info: H2G971AA,1,0,,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
7H-Dibenzo[b,g]carbazole, 7-methyl-	3557-49-1	NIST02.l	106923	64	C21H15N	281
Benzoic acid, 5-methyl-2-trimethylsilylo	1000153-59-4	NIST02.l	115080	59	C14H24O3Si2	296
4H-1,2,4-Triazole-3-thiol, 4-allyl-5-(1-	31803-13-1	NIST02.l	106786	50	C16H15N3S	281



Data File: /var/chem/gcms/mx.i/X040706.b/h2g971aa.d

Date : 07-APR-2006 13:51

Client ID: G-3010-R2-VOST PAIR

Instrument: mx.i

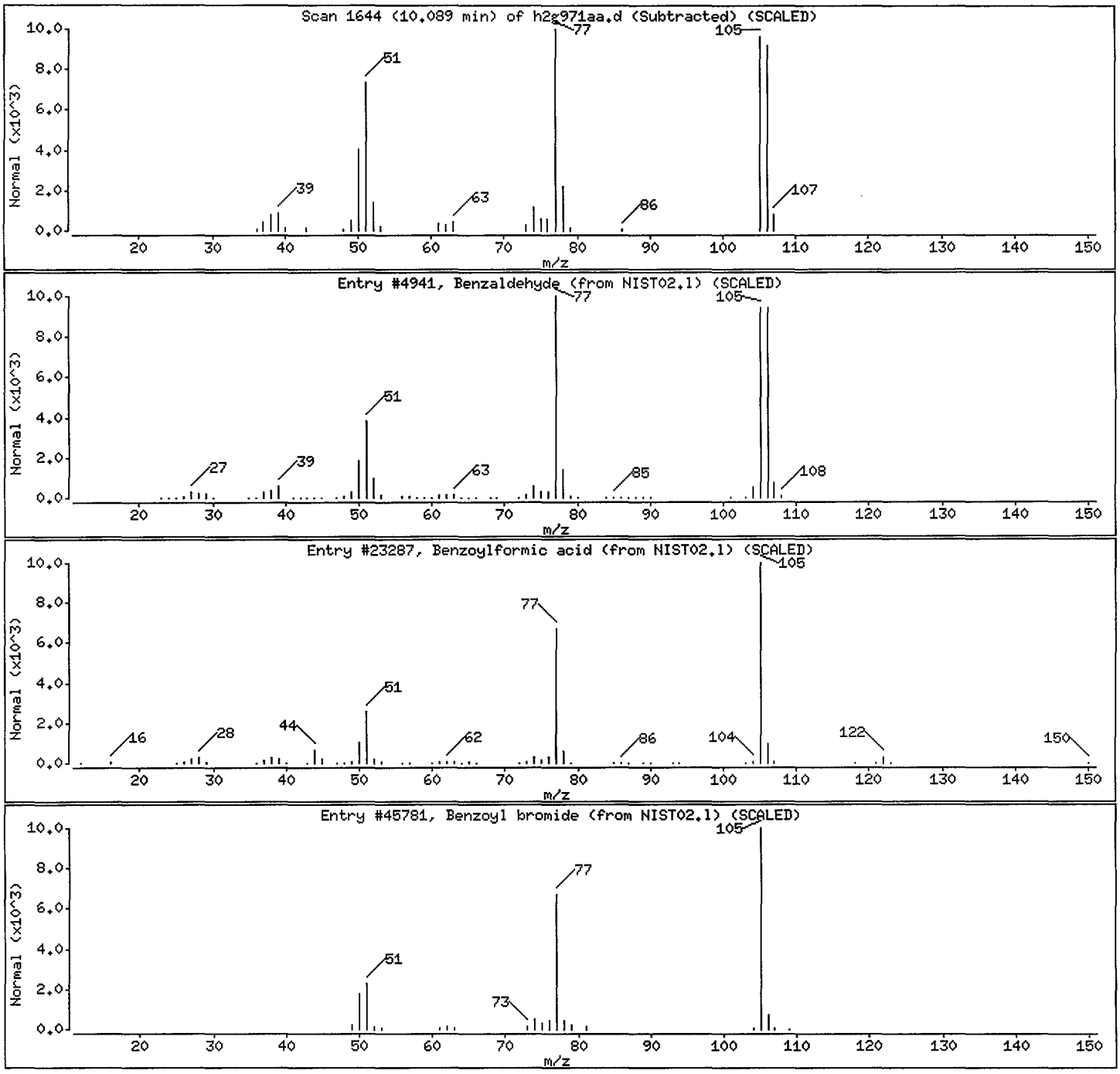
Sample Info: H2G971AA,1,0,,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzaldehyde	100-52-7	NIST02.l	4941	95	C7H6O	106
Benzoylformic acid	611-73-4	NIST02.l	23287	72	C8H6O3	150
Benzoyl bromide	618-32-6	NIST02.l	45781	72	C7H5BrO	184



STL Knoxville - ACS

Client Sample ID: G-3011-R2-VOST PAIR #3 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-017 **Work Order #...:** H2G981AA **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.10 B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.030 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	**0.32**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	**0.0063 J**	**0.025**	**ug**	**0.0050**
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3011-R2-VOST PAIR #3 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-017 **Work Order #...:** H2G981AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.015 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0028 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.011**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	104	(50 - 134)
1,2-Dichloroethane-d4	98	(50 - 134)
Toluene-d8	92	(57 - 127)
Bromofluorobenzene	88	(50 - 125)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3011-R2-VOST PAIR #3 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #: H6D030169-017 **Work Order #:** H2G981AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d
Report Date: 07-Apr-2006 16:37

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040706.b/h2g981aa.d
Lab Smp Id: H2G981AA Client Smp ID: G-3011-R2-VOST PAIR
Inj Date : 07-APR-2006 16:20
Operator : 22980 Inst ID: mz.i
Smp Info : H2G981AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 13:06 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.675	5.676	(1.000)	649335	10.0000	
* 2 Chlorobenzene-d5	119	8.936	8.937	(1.000)	163074	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.497	11.492	(1.000)	229143	10.0000	
$ 4 Dibromofluoromethane	113	4.835	4.831	(0.852)	108429	10.4212	0.26053
$ 5 1,2-Dichloroethane-d4	65	5.237	5.238	(0.923)	88440	9.82951	0.24574
$ 6 Toluene-d8	98	7.464	7.465	(0.835)	657167	9.17167	0.22929
$ 7 4-Bromofluorobenzene	95	10.128	10.129	(0.881)	202378	8.75749	0.21894
10 Dichlorodifluoromethane	85	1.009	1.016	(0.178)	4018	0.25352	0.0063379
11 Chloromethane (spcc)	50	1.125	1.126	(0.198)	481147	12.6644	0.31661
15 Bromomethane	94	1.417	1.418	(0.250)	2660	1.21835	0.030459
16 Chloroethane	64	1.459	1.485	(0.257)	47036	3.88406	0.097101
22 Acetone	43	2.122	2.123	(0.374)	1534	3.63893	0.090973
23 *Iodomethane	142	2.195	2.184	(0.387)	1238	0.59543	0.014886
27 Methylene Chloride	84	2.506	2.513	(0.442)	1707	0.15726	0.0039316
39 *THF	42	4.550	4.532	(0.802)	764	0.49610	0.012402
44 Benzene	78	5.304	5.305	(0.935)	6594	0.10298	0.0025746

4-14-06

see reprint for (M)

Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d
Report Date: 07-Apr-2006 16:37

JW 4.14.06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
45 1,2-Dichloroethane	62	5.675	5.335	(1.000)	10972	0.80923	0.020231
46 Trichloroethene	130	6.125	6.114	(1.079)	8008	0.44462	0.011116
53 4-Methyl-2-pentanone	43	7.457	7.386	(1.314)	5263	0.92821	0.023205
54 Toluene (ccc)	91	7.530	7.532	(0.843)	10302	0.11101	0.0027752
55 trans-1,3-Dichloropropene	75	7.537	7.793	(0.843)	118	0.63330	0.015832
63 Chlorobenzene (spcc)	112	8.966	8.961	(1.003)	2413	0.04660	0.0011650
65 Ethylbenzene (ccc)	106	9.228	9.101	(1.033)	1895	0.05678	0.0014195
67 o-Xylene	106	9.228	9.612	(1.033)	1895	0.05318	0.0013294
68 Styrene	104	9.629	9.630	(1.078)	2872	0.05740	0.0014350
83 1,3-Dichlorobenzene	146	11.527	11.395	(1.003)	2863	0.07140	0.0017849
85 1,4-Dichlorobenzene	146	11.527	11.528	(1.003)	2863	0.07676	0.0019189

Data File: /var/chem/gcms/mz.i/Z040706.b/h2g981aa.d
Report Date: 14-Apr-2006 15:52

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2g981aa.d
Lab Smp Id: H2G981AA Client Smp ID: G-3011-R2-VOST PAIR
Inj Date : 07-APR-2006 16:20
Operator : 22980 Inst ID: mz.i
Smp Info : H2G981AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.675	5.676	(1.000)	649335	10.0000	
* 2 Chlorobenzene-d5	119	8.936	8.937	(1.000)	163074	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.497	11.492	(1.000)	229143	10.0000	
$ 4 Dibromofluoromethane	113	4.835	4.831	(0.852)	108429	10.4211	0.26053
$ 5 1,2-Dichloroethane-d4	65	5.237	5.238	(0.923)	88440	9.82948	0.24574
$ 6 Toluene-d8	98	7.464	7.465	(0.835)	657167	9.17167	0.22929
$ 7 4-Bromofluorobenzene	95	10.128	10.129	(0.881)	202378	8.75748	0.21894
10 Dichlorodifluoromethane	85	1.009	1.016	(0.178)	4018	0.25350	0.0063375
11 Chloromethane (spcc)	50	1.125	1.126	(0.198)	481147	12.6644	0.31661
15 Bromomethane	94	1.417	1.418	(0.250)	2660	1.21828	0.030457
22 Acetone	43	2.122	2.123	(0.374)	3488	4.15929	0.10398(M)
23 *Iodomethane	142	2.195	2.184	(0.387)	1238	0.59540	0.014885
27 Methylene Chloride	84	2.506	2.513	(0.442)	1707	0.15719	0.0039296
44 Benzene	78	5.304	5.305	(0.935)	6594	0.10298	0.0025744
46 Trichloroethene	130	6.125	6.114	(1.079)	8008	0.44457	0.011114
54 Toluene (ccc)	91	7.530	7.532	(0.843)	10302	0.11101	0.0027751

Data File: /var/chem/gcms/mz.i/Z040706.b/h2g981aa.d
Report Date: 14-Apr-2006 15:52

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
63 Chlorobenzene (spcc)	112	8.966	8.961	(1.003)	2413	0.04658	0.0011646
68 Styrene	104	9.629	9.630	(1.078)	2872	0.05740	0.0014350
85 1,4-Dichlorobenzene	146	11.527	11.528	(1.003)	2863	0.07674	0.0019184

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d
Report Date: 07-Apr-2006 16:37

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2g981aa.d
Lab Smp Id: H2G981AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 07:35
Client Smp ID: G-3011-R2-VOST PAIR
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	952581	476290	1905162	649335	-31.83
2 Chlorobenzene-d5	164101	82050	328202	163074	-0.63
3 1,4 Dichlorobenze	204390	102195	408780	229143	12.11

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.68	5.18	6.18	5.67	-0.02
2 Chlorobenzene-d5	8.94	8.44	9.44	8.94	-0.01
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.50	0.04

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

Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d
Report Date: 07-Apr-2006 16:37

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030169
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: H2G981AA
Client Smp ID: G-3011-R2-VOST PAIR
Level: LOW
Operator: 22980
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allcmpds.spk
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

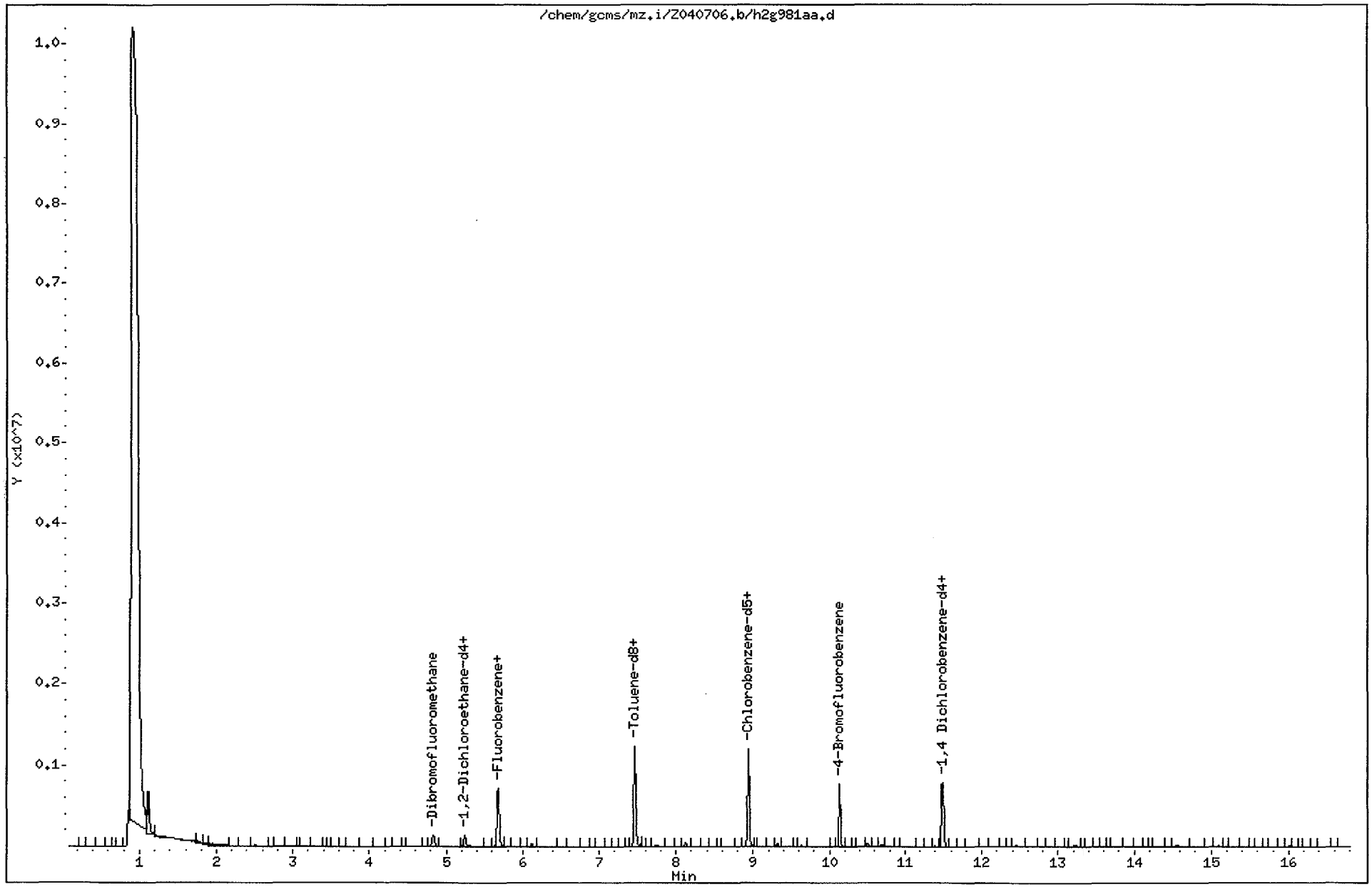
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.26053	104.21	50-150
$ 5 1,2-Dichloroethane	0.25000	0.24574	98.30	50-150
$ 6 Toluene-d8	0.25000	0.22929	91.72	50-150
$ 7 4-Bromofluorobenze	0.25000	0.21894	87.57	50-150

Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d
Date : 07-APR-2006 16:20
Client ID: G-3011-R2-VOST PAIR
Sample Info: H2G981AA,1,0,,

Instrument: mz.i

Operator: 22980
Column diameter: 0.18

Column phase: J+W 624



Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d

Date : 07-APR-2006 16:20

Client ID: G-3011-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G981AA,1,0,,

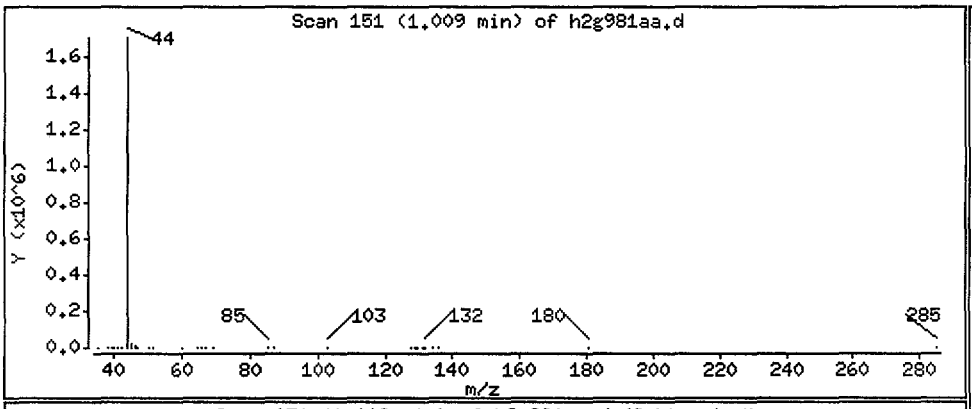
Operator: 22980

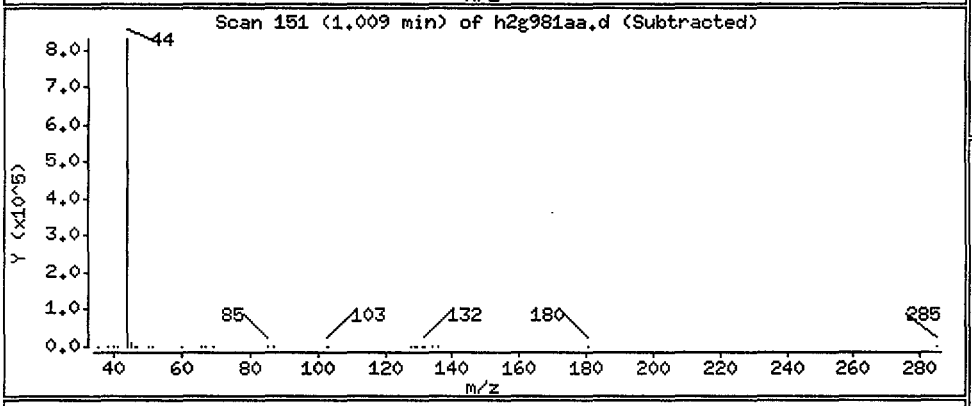
Column phase: J+W 624

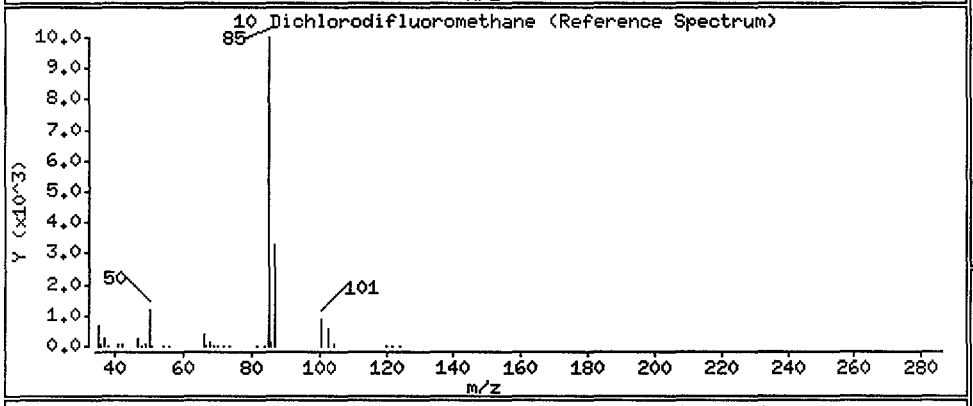
Column diameter: 0.18

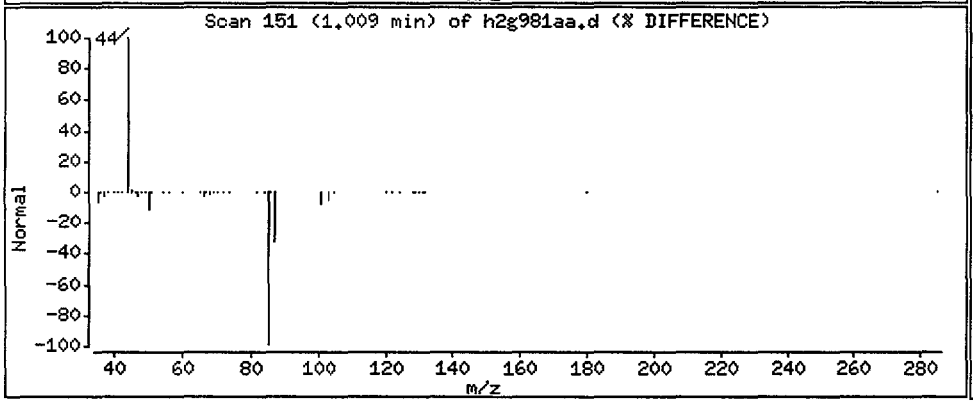
10 Dichlorodifluoromethane

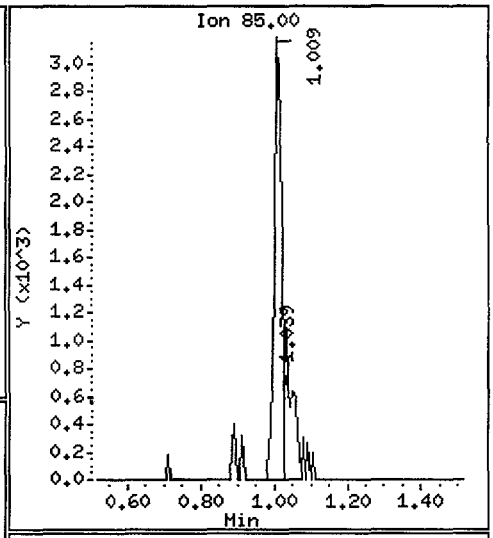
Concentration: 0.0063379 ug

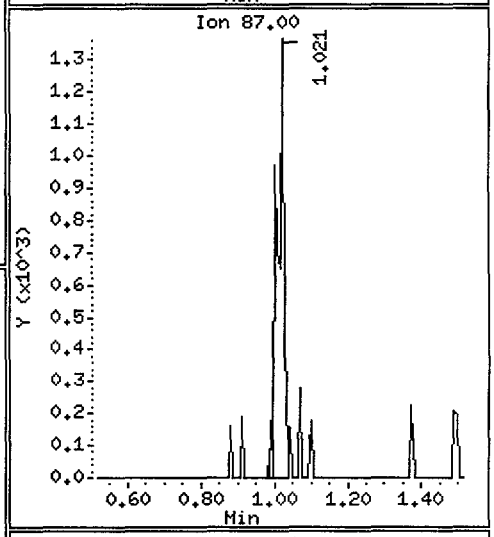


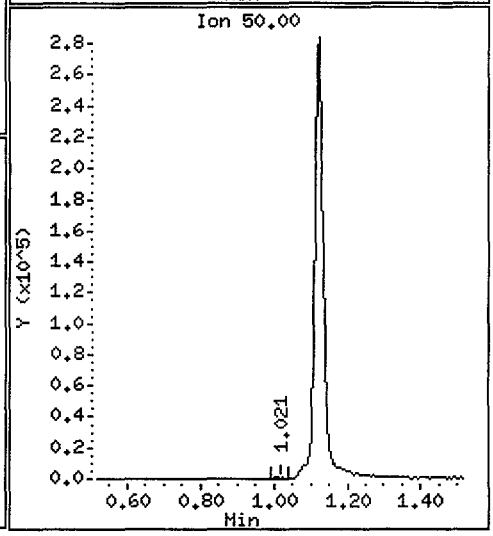












Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d

Date : 07-APR-2006 16:20

Client ID: G-3011-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G981AA,1,0,,

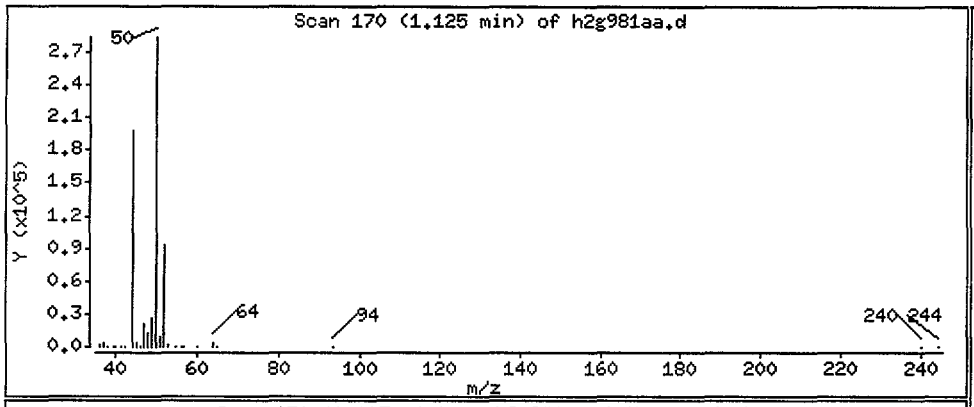
Operator: 22980

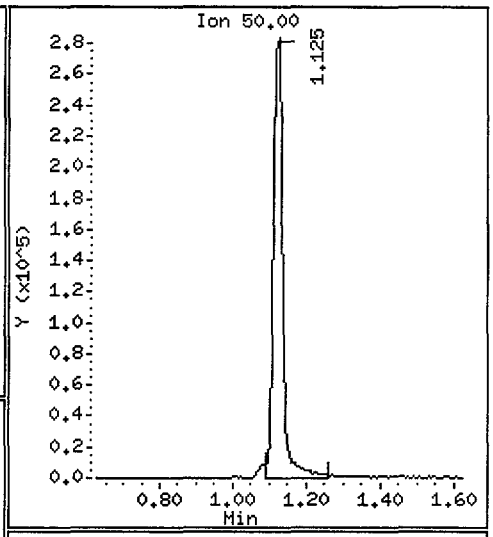
Column phase: J+W 624

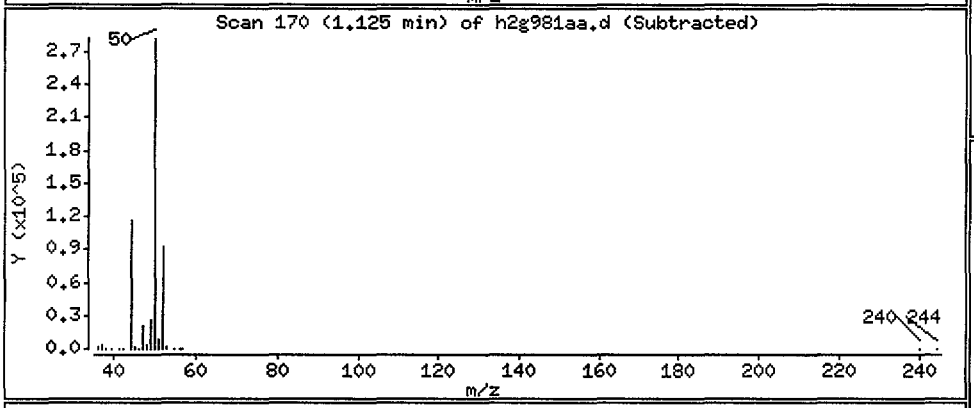
Column diameter: 0.18

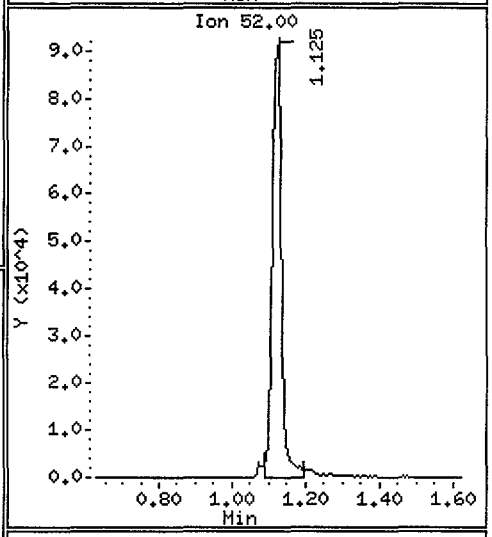
11 Chloromethane (spcc)

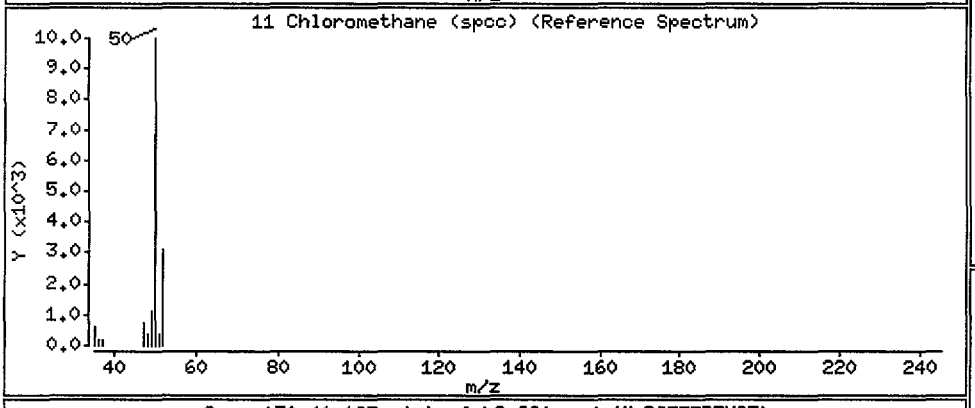
Concentration: 0.31661 ug

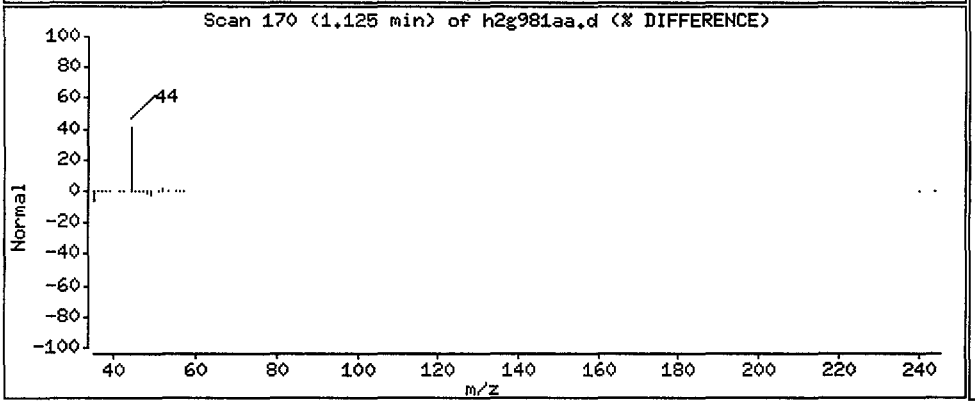


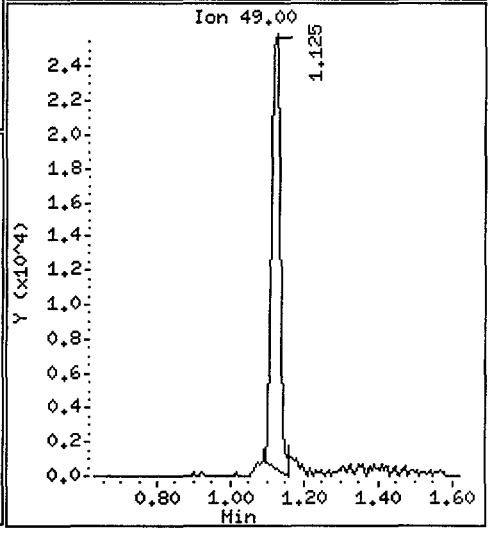












Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d

Date : 07-APR-2006 16:20

Client ID: G-3011-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G981AA,1,0,,

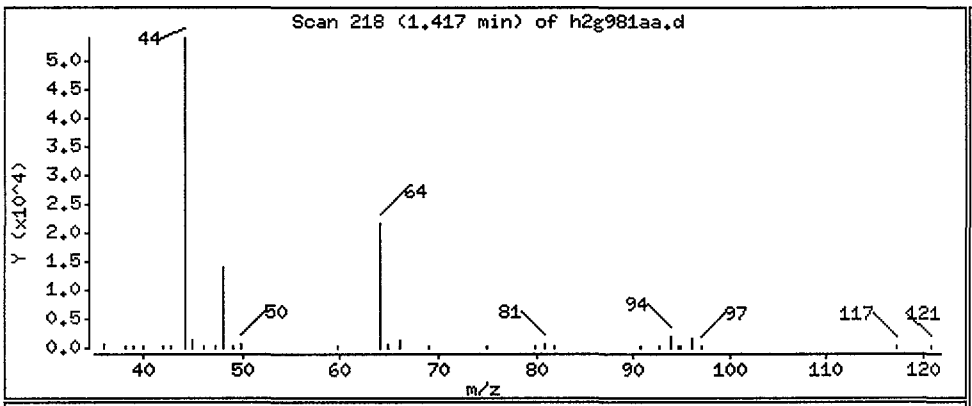
Operator: 22980

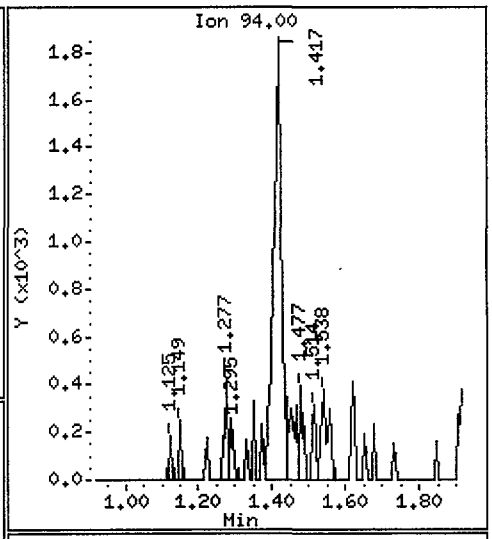
Column phase: J+W 624

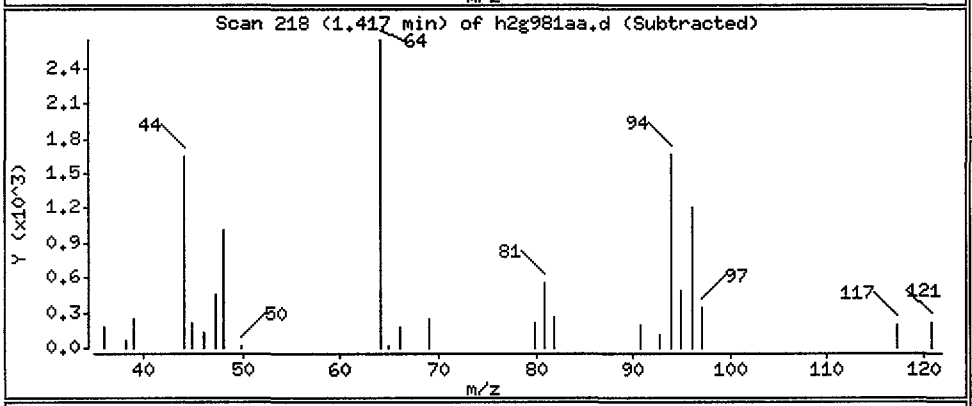
Column diameter: 0.18

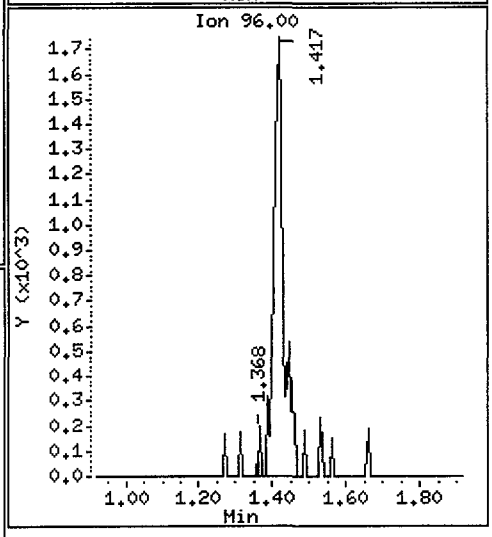
15 Bromomethane

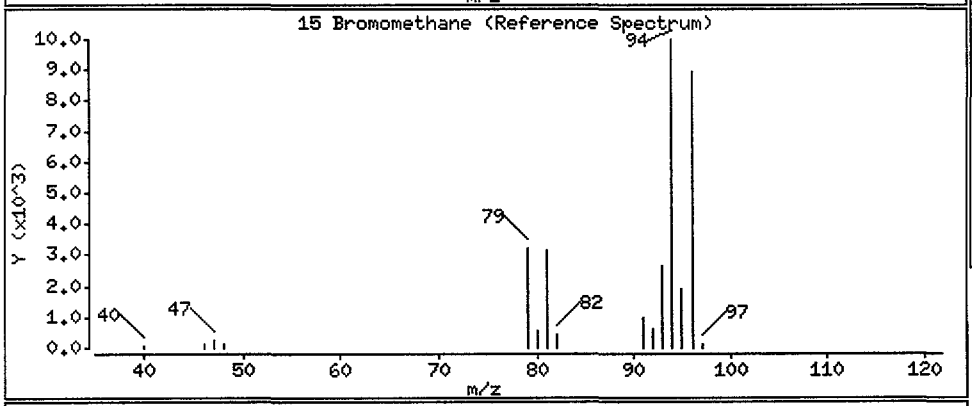
Concentration: 0.030459 ug

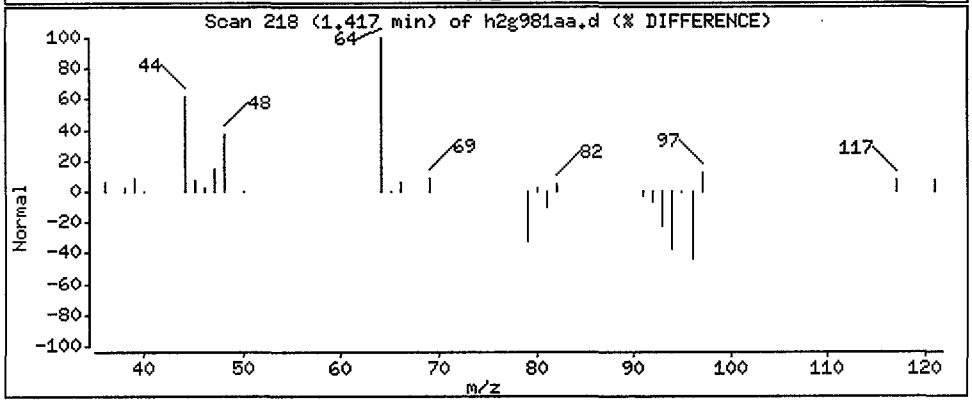












Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d

Date : 07-APR-2006 16:20

Client ID: G-3011-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G981AA,1,0,,

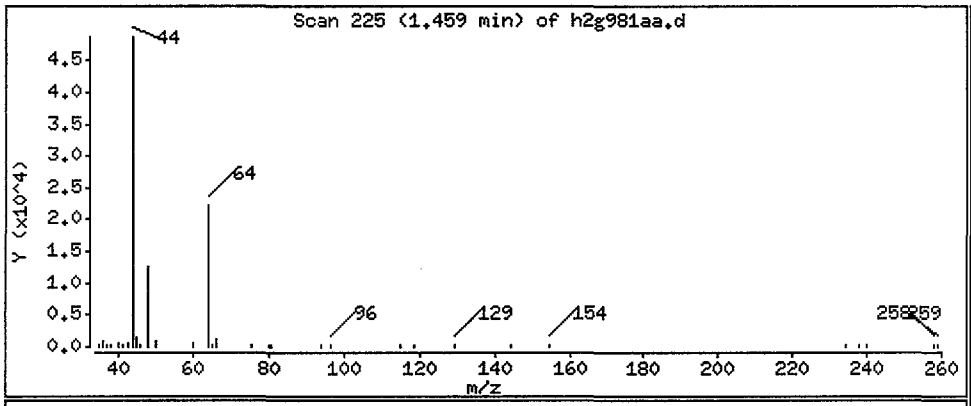
Operator: 22980

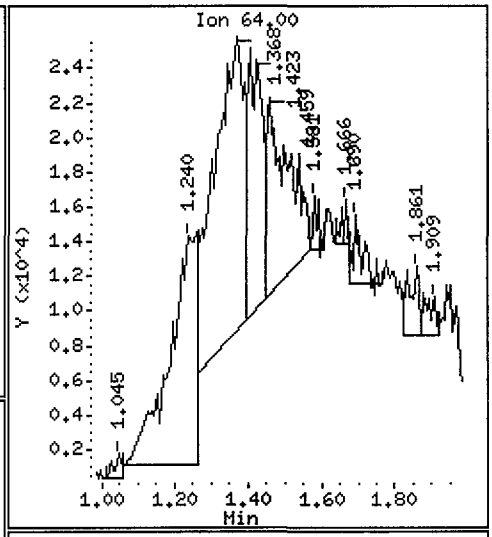
Column phase: J+W 624

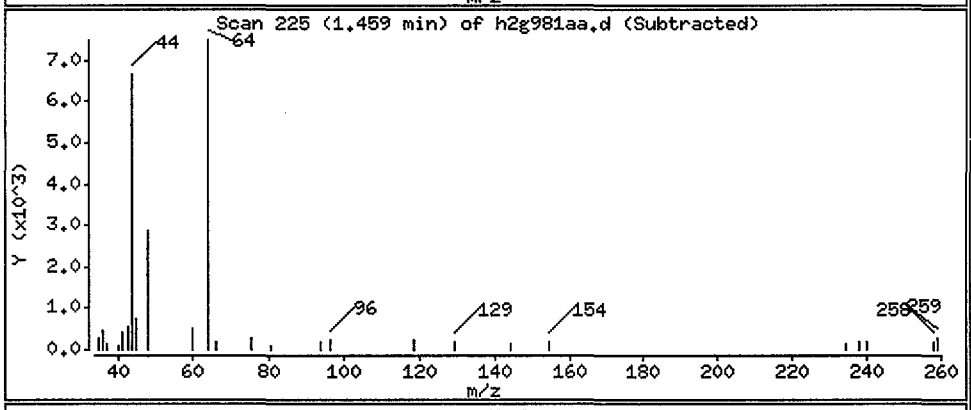
Column diameter: 0.18

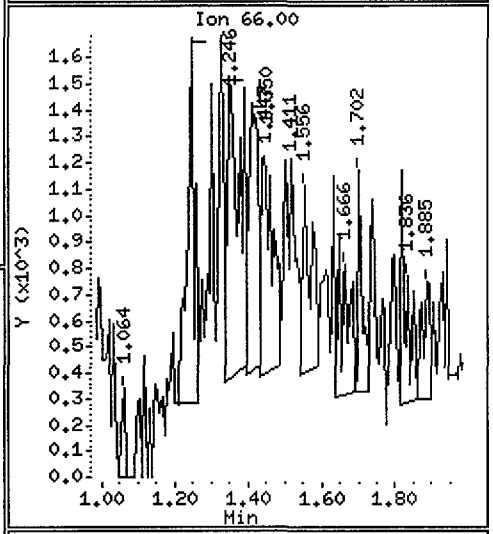
16 Chloroethane

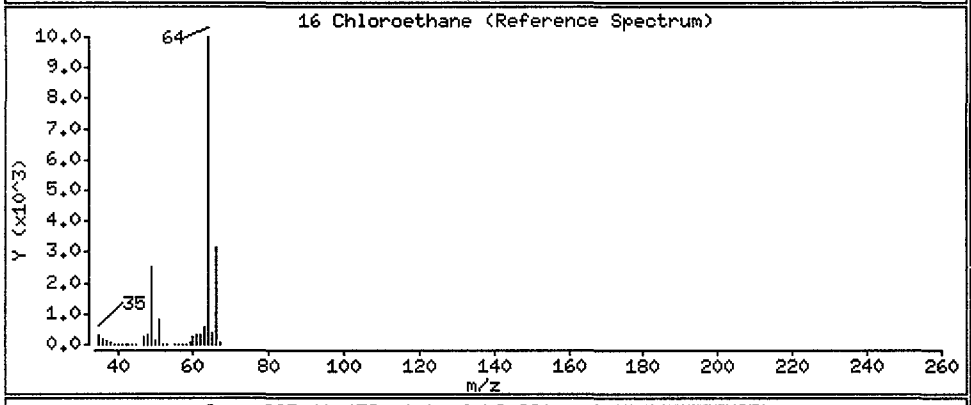
Concentration: 0.097101 ug

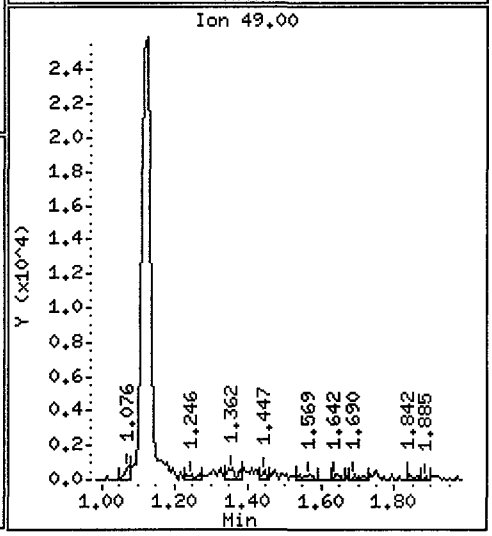


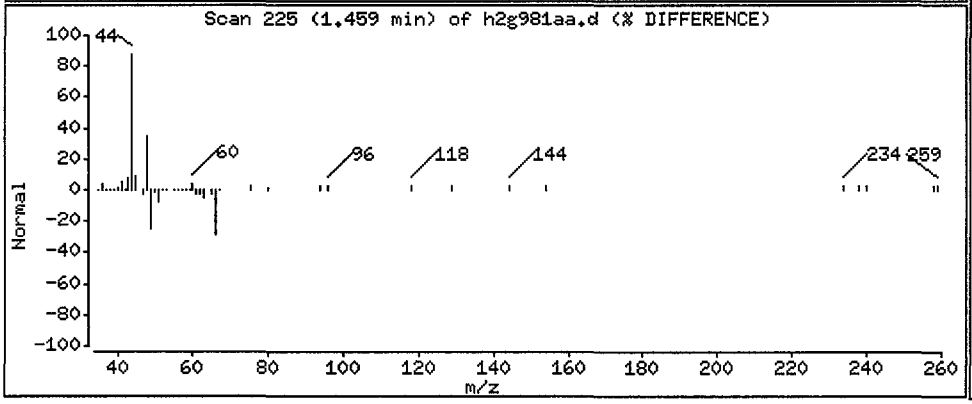












Data File: /var/chem/gcms/mz.i/Z040706.b/h2g981aa.d

Date : 07-APR-2006 16:20

Client ID: G-3011-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G981AA,1,0,,

Operator: 22980

JW 4.11.06

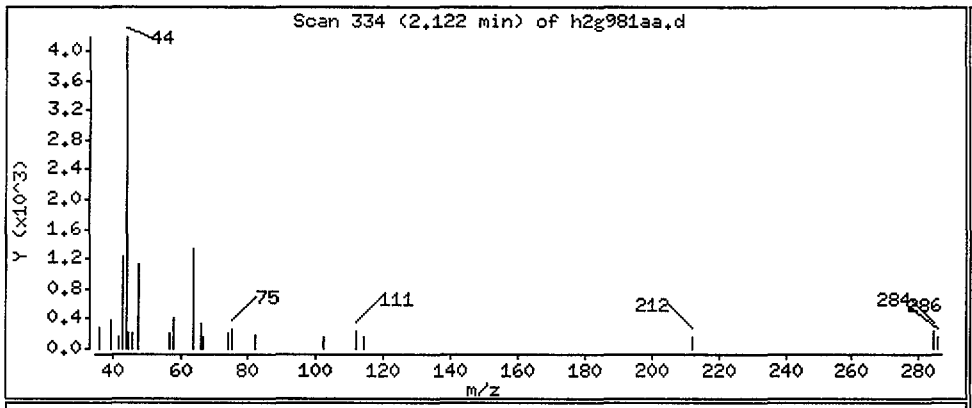
Column phase: J+W 624

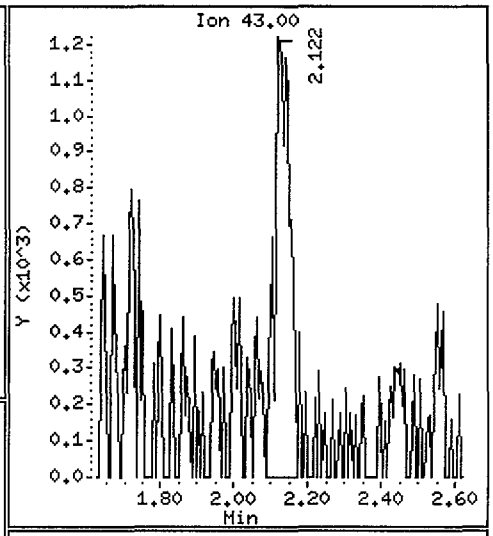
Column diameter: 0.18

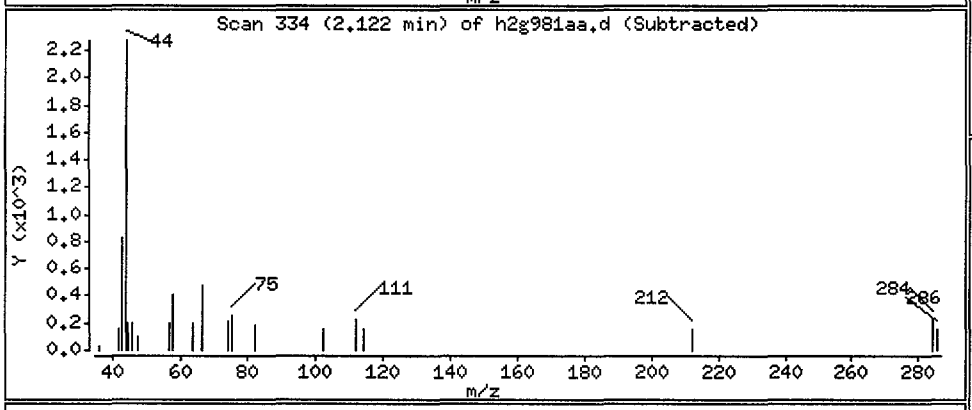
1

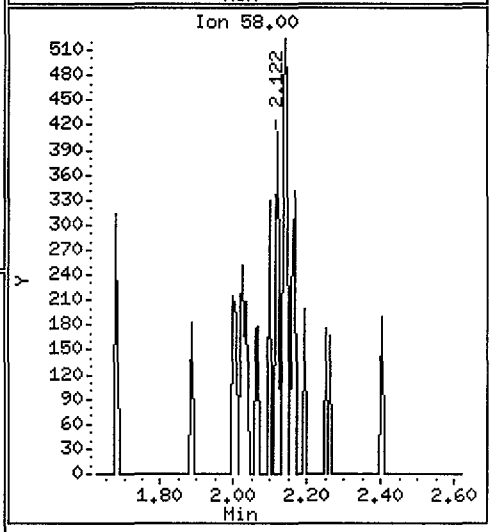
22 Acetone

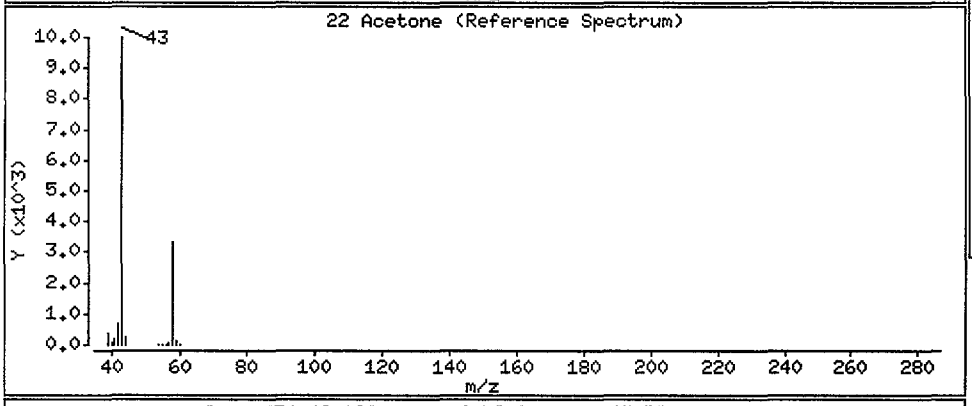
Concentration: 0.10398 ug

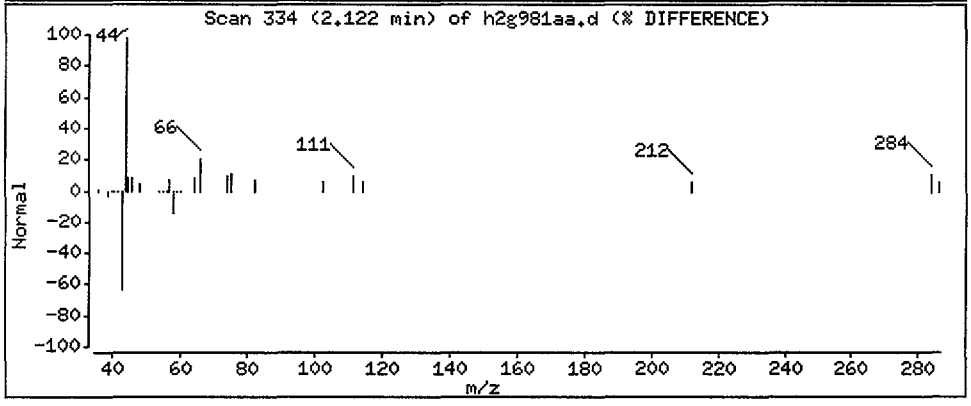












Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d

Date : 07-APR-2006 16:20

Client ID: G-3011-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G981AA,1,0,,

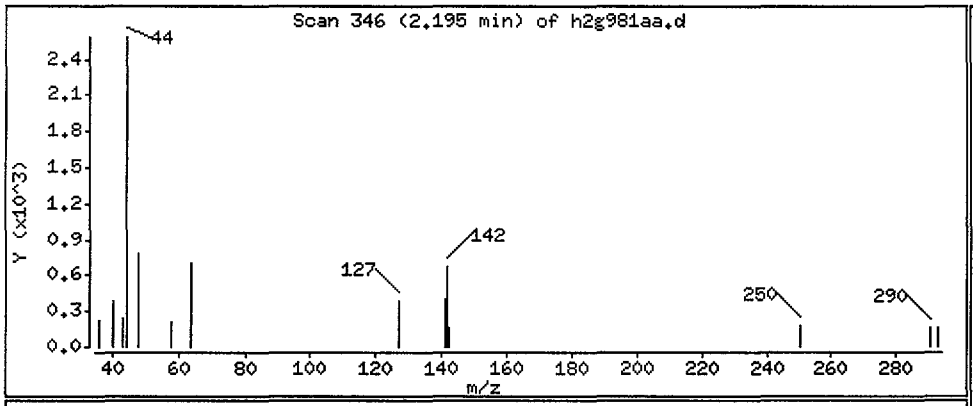
Operator: 22980

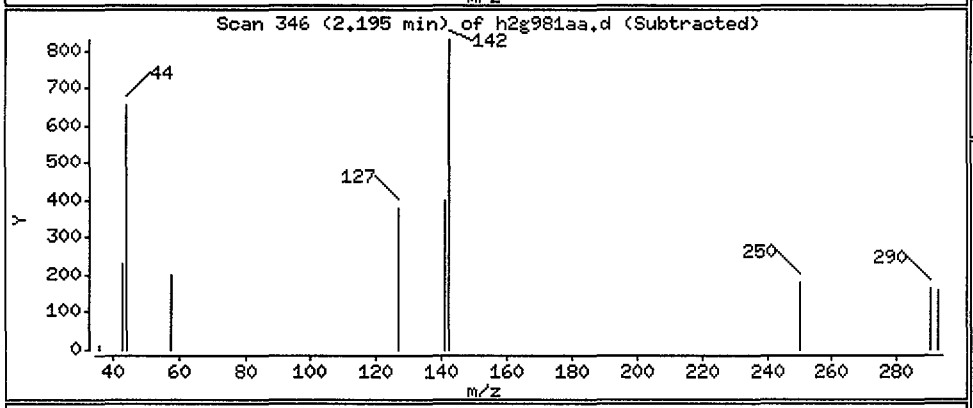
Column phase: J+W 624

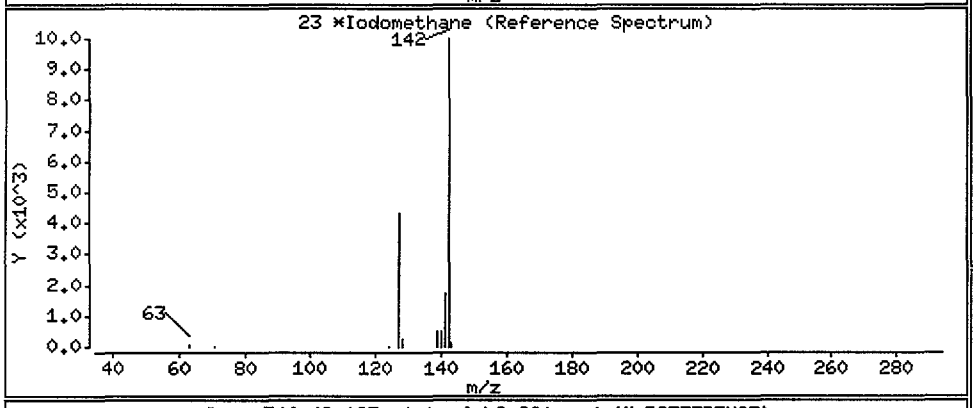
Column diameter: 0.18

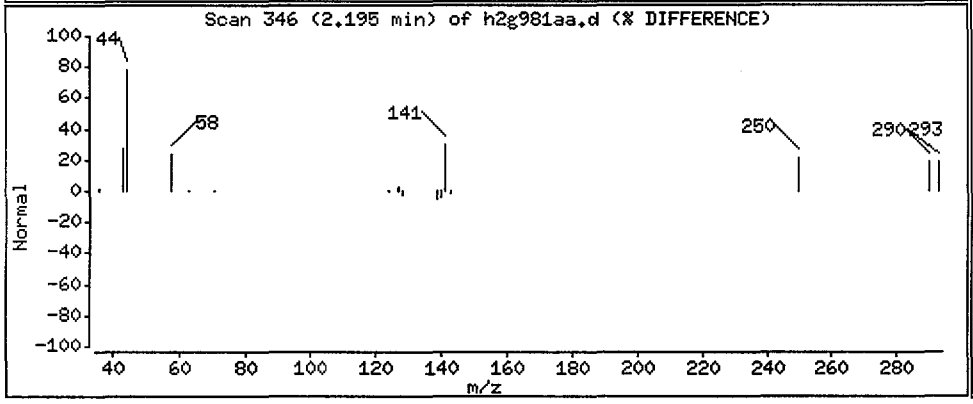
23 *Iodomethane

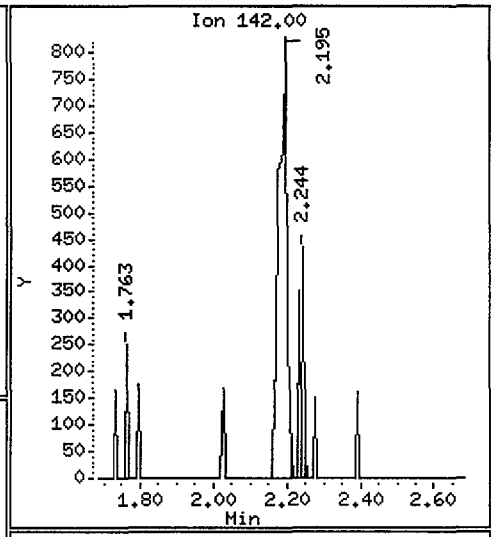
Concentration: 0.014886 ug

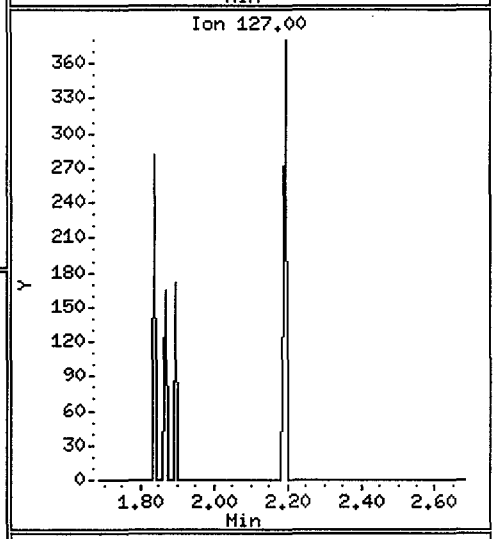


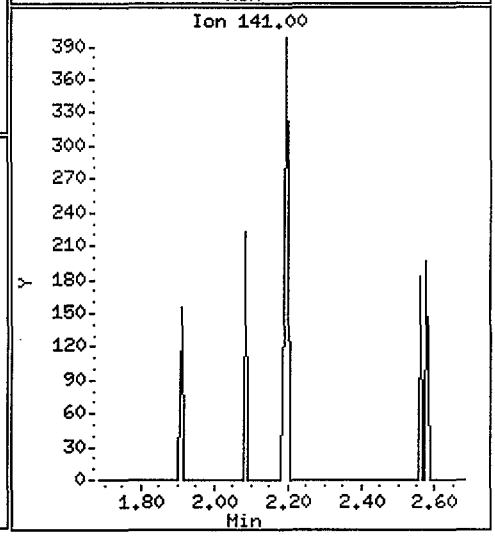












Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d

Date : 07-APR-2006 16:20

Client ID: G-3011-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G981AA,1,0,,

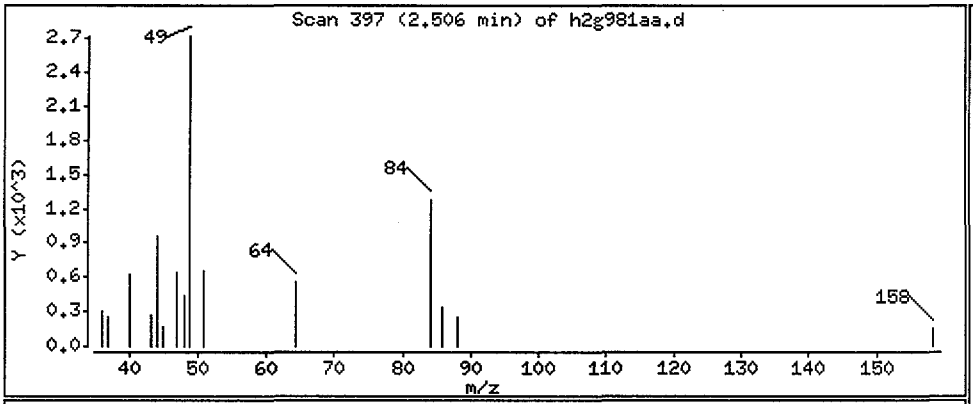
Operator: 22980

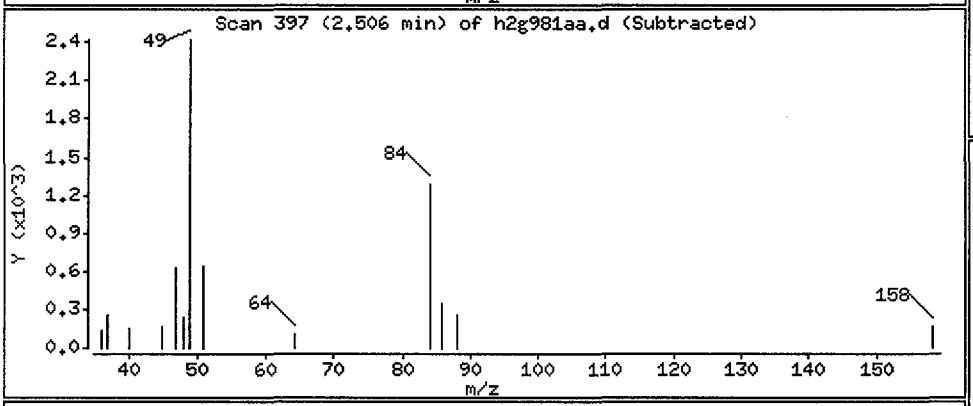
Column phase: J+W 624

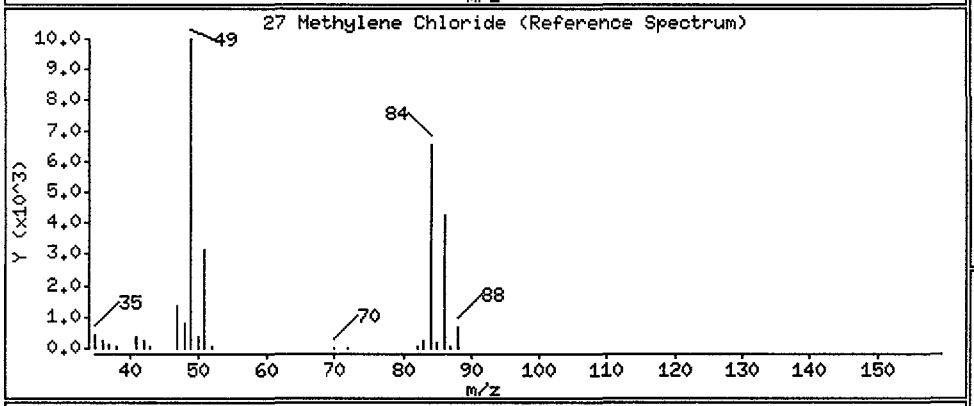
Column diameter: 0.18

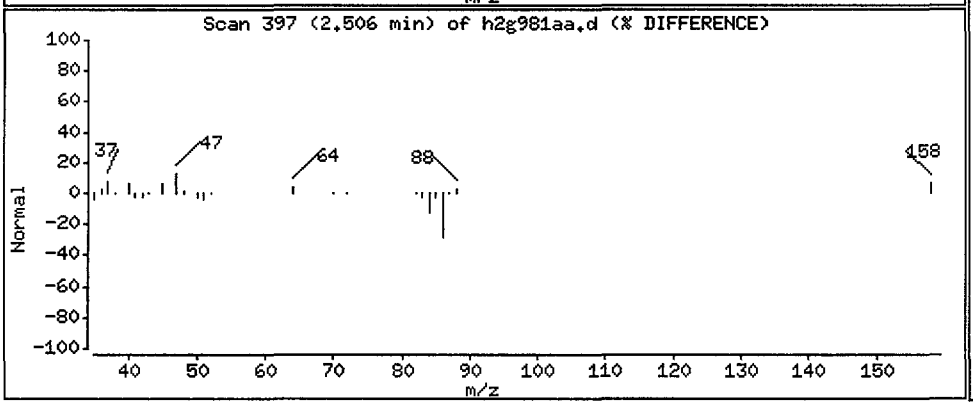
27 Methylene Chloride

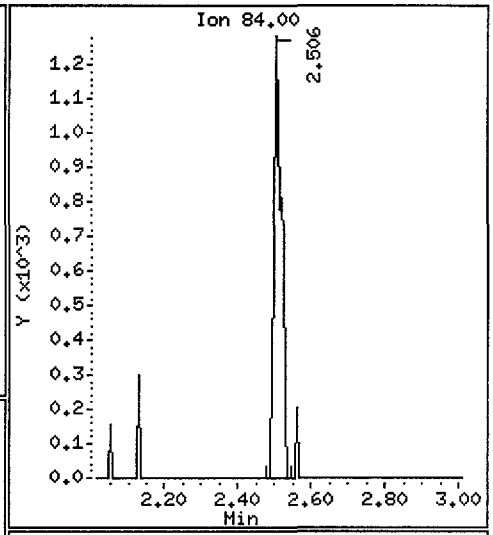
Concentration: 0.0039316 ug

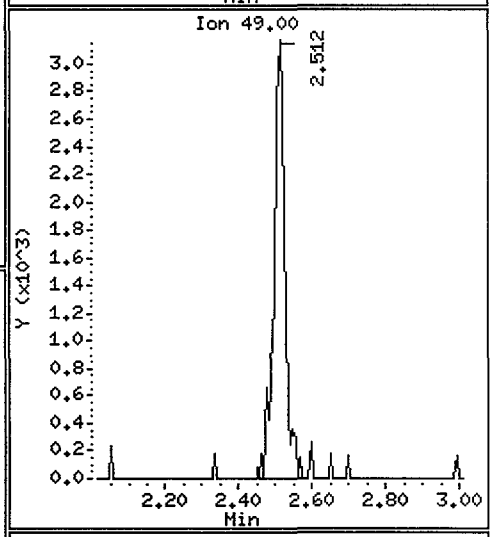


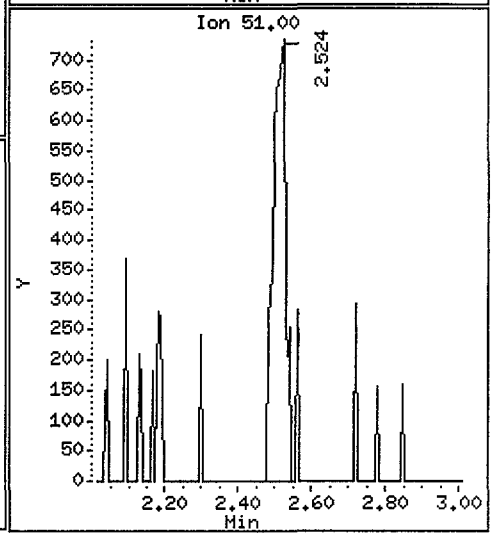












Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d

Date : 07-APR-2006 16:20

Client ID: G-3011-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G981AA,1,0,,

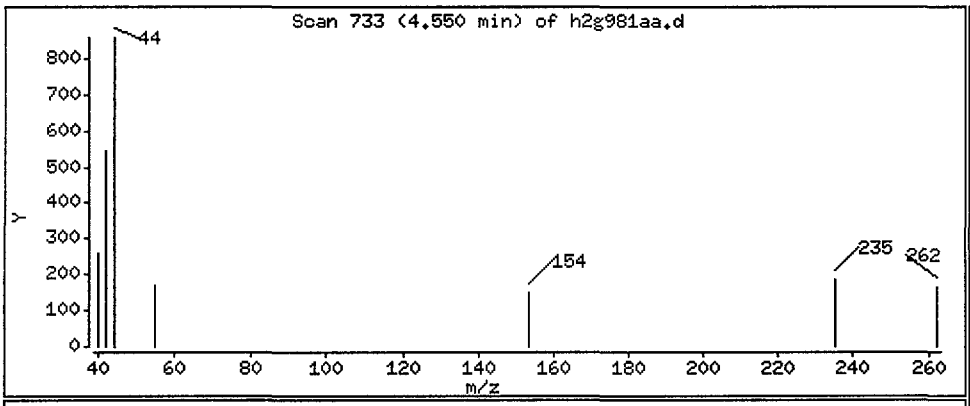
Operator: 22980

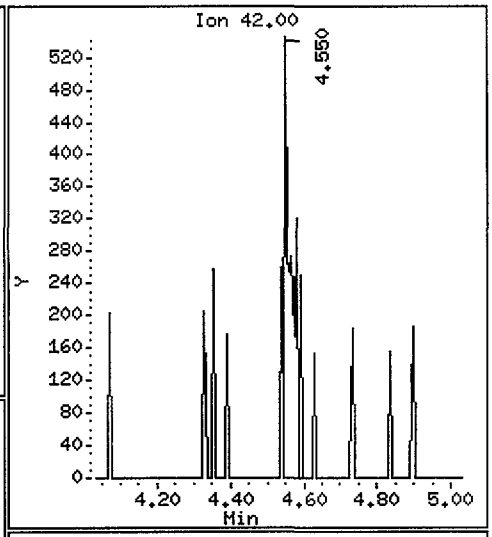
Column phase: J+W 624

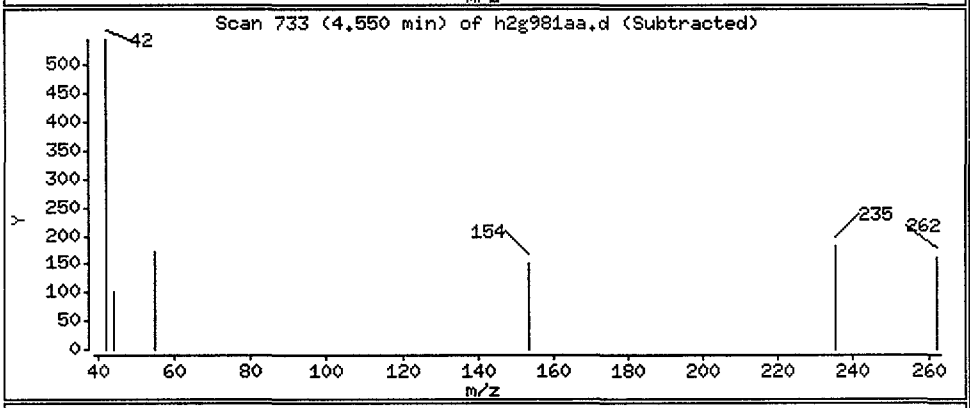
Column diameter: 0.18

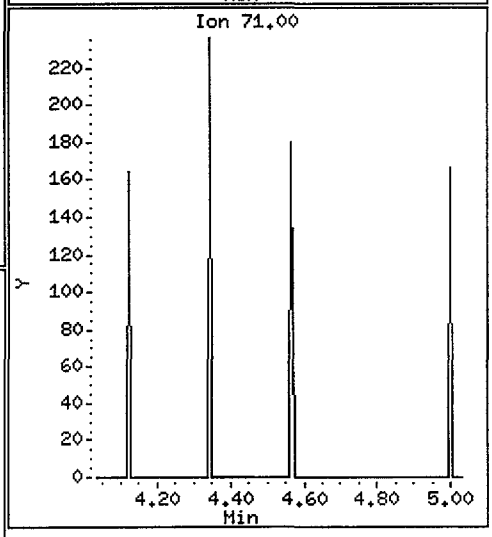
39 *THF

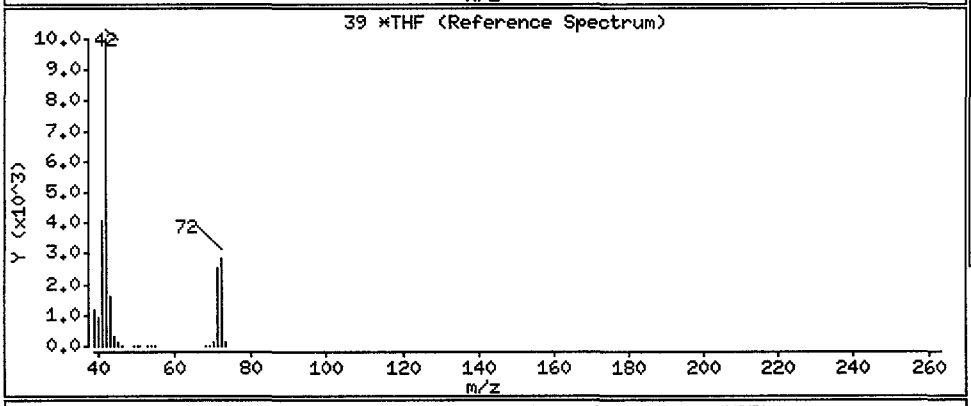
Concentration: 0.012402 ug

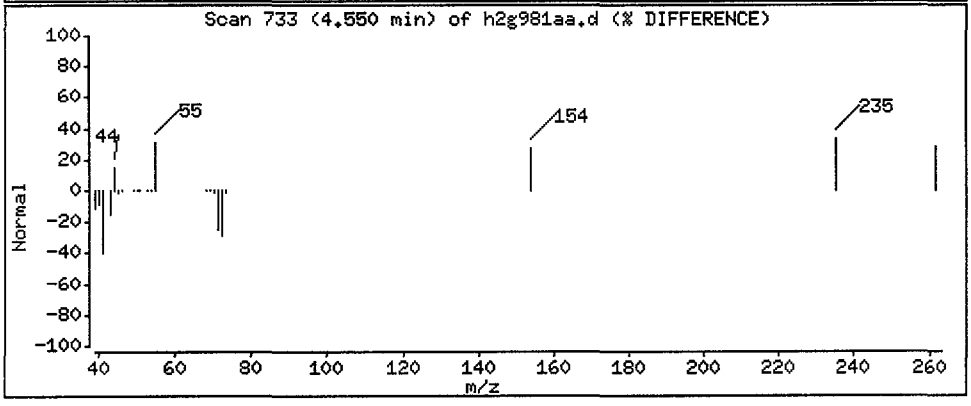












Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d

Date : 07-APR-2006 16:20

Client ID: G-3011-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G981AA,1,0,,

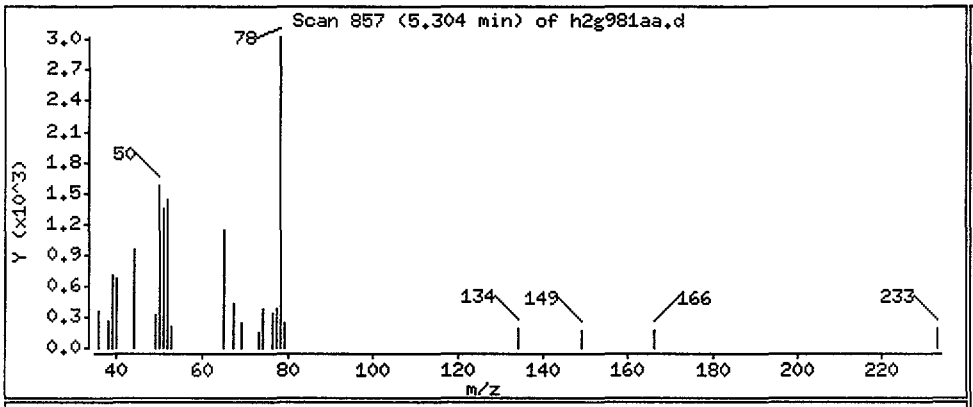
Operator: 22980

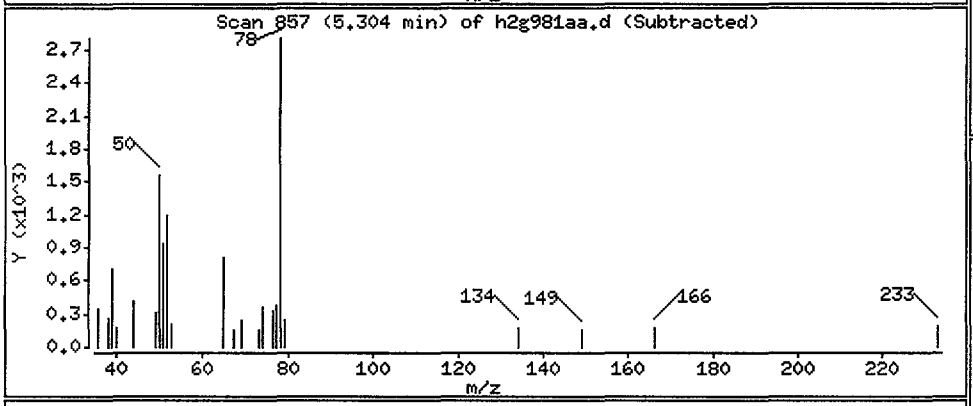
Column phase: J+W 624

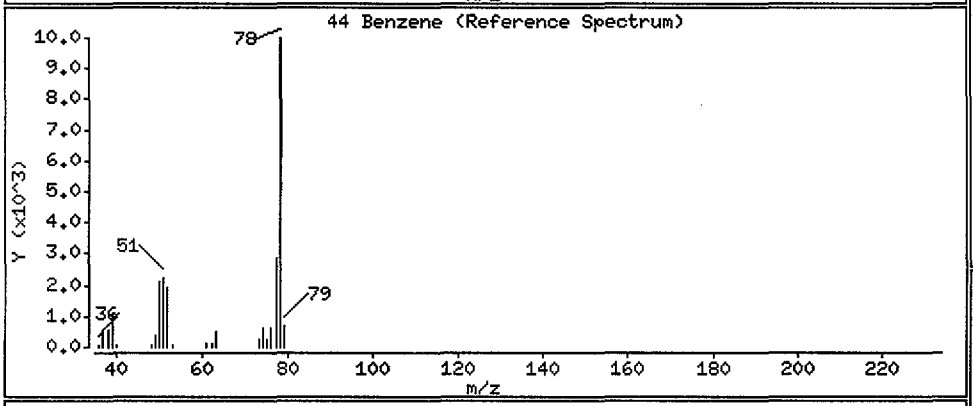
Column diameter: 0.18

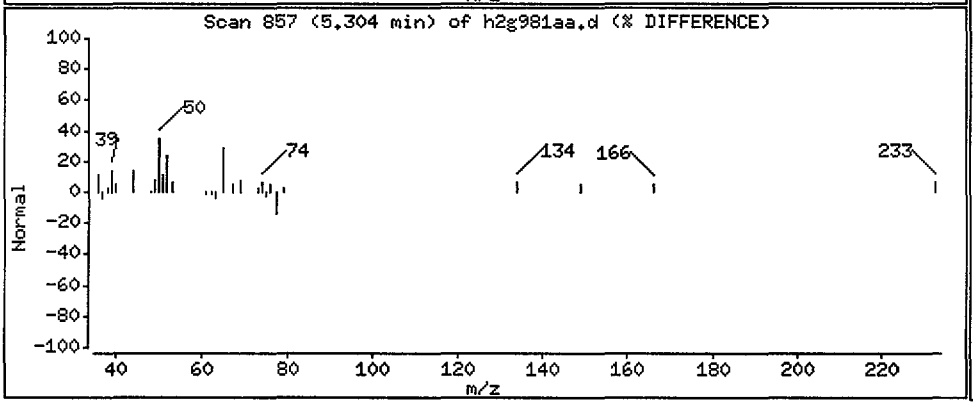
44 Benzene

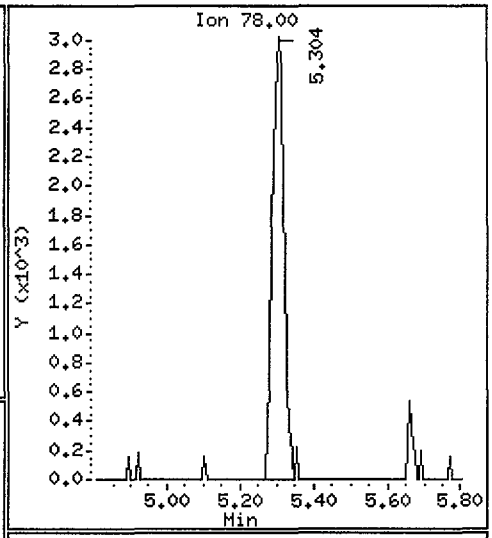
Concentration: 0.0025746 ug

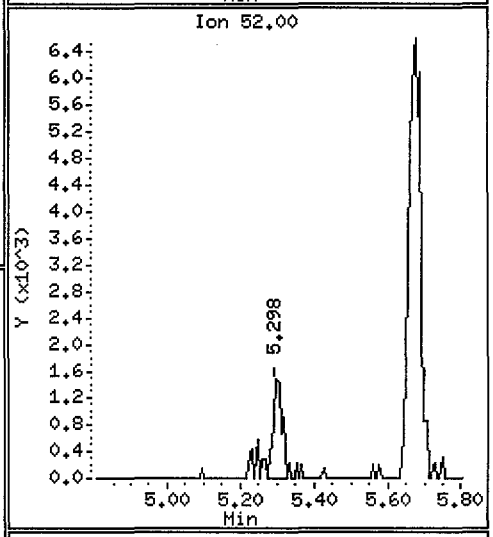


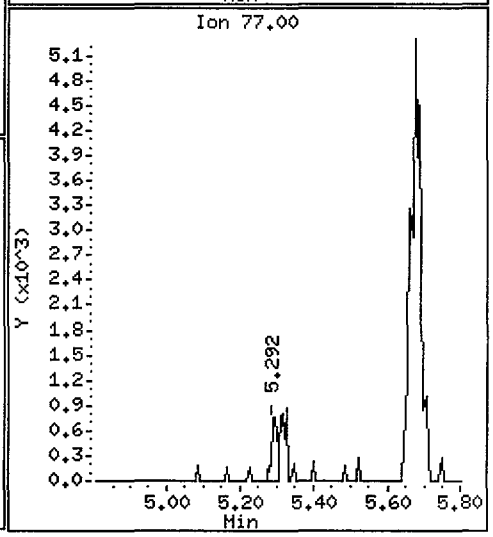












Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d

Date : 07-APR-2006 16:20

Client ID: G-3011-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G981AA,1,0,,

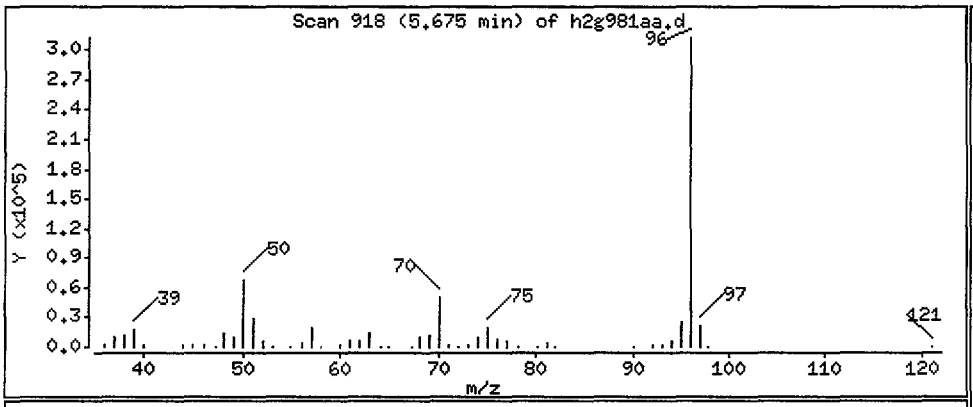
Operator: 22980

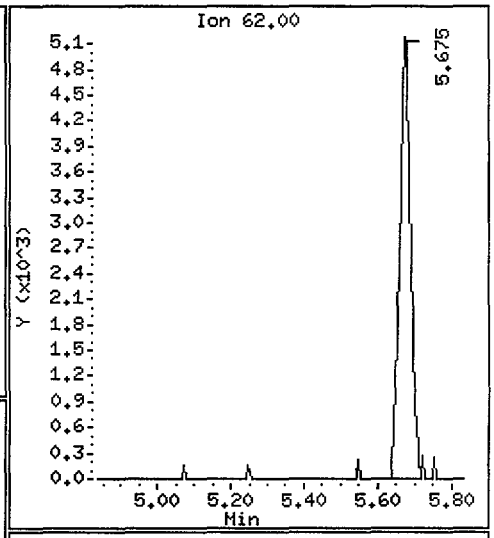
Column phase: J+W 624

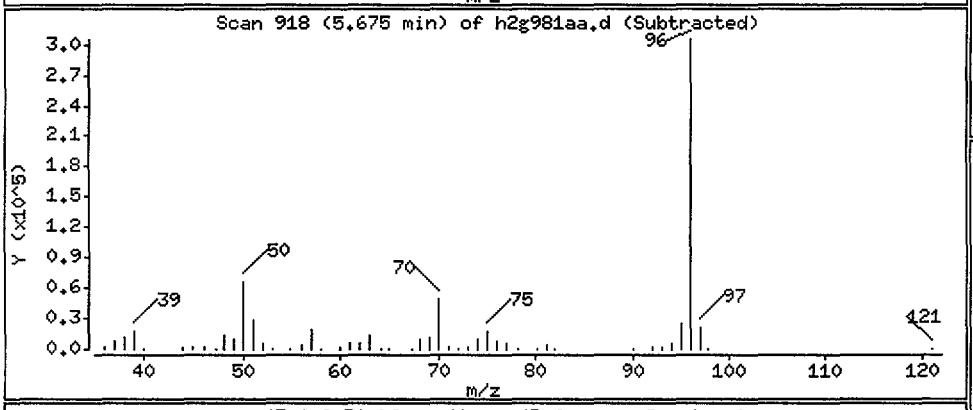
Column diameter: 0.18

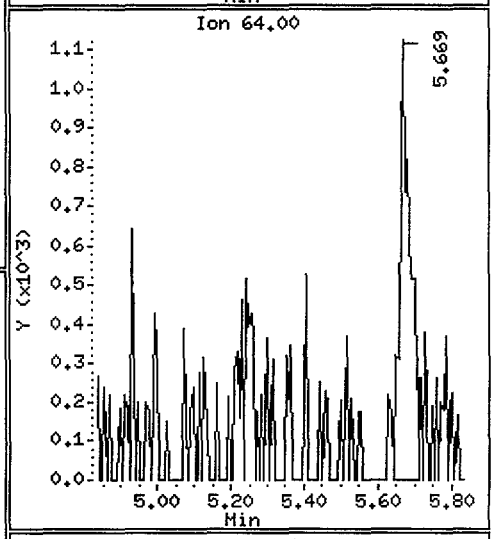
45 1,2-Dichloroethane

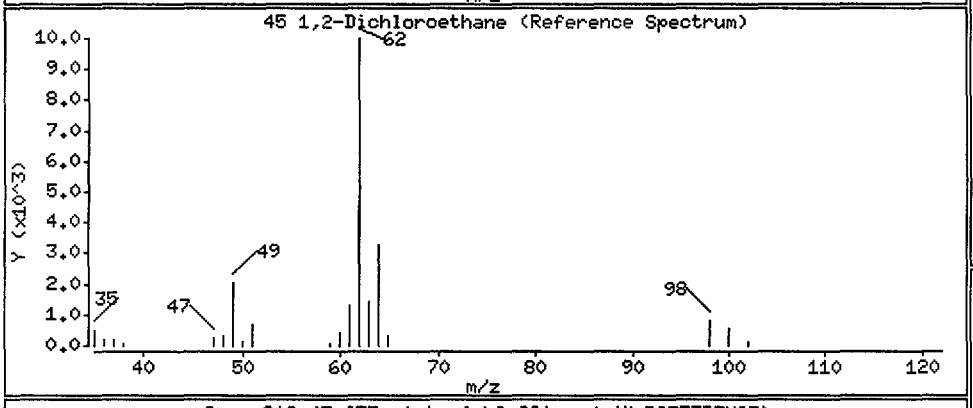
Concentration: 0.020231 ug

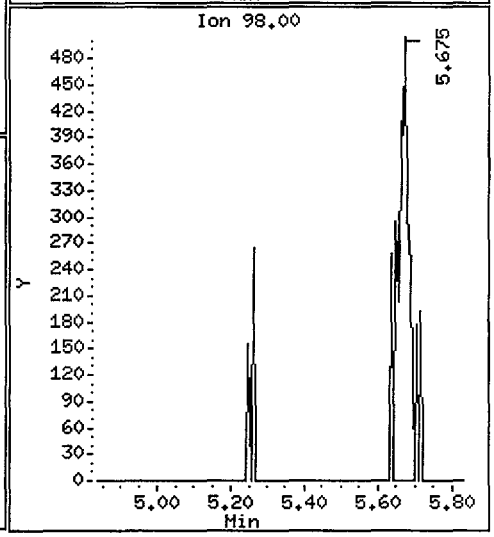


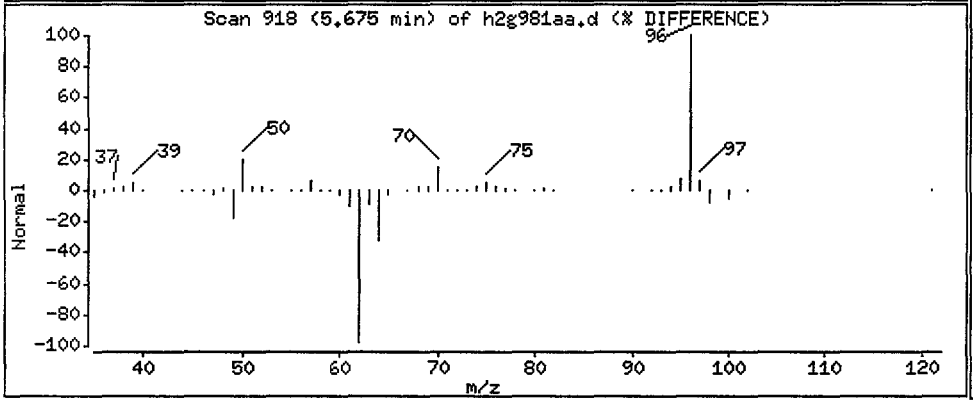












Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d

Date : 07-APR-2006 16:20

Client ID: G-3011-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G981AA,1,0,,

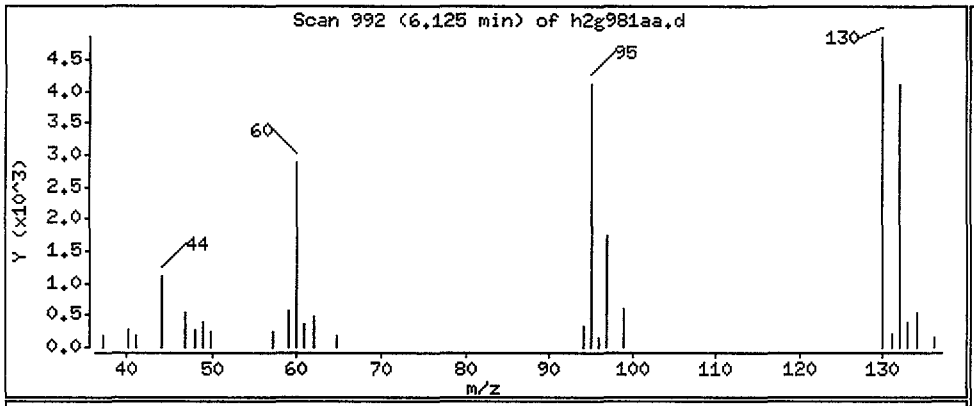
Operator: 22980

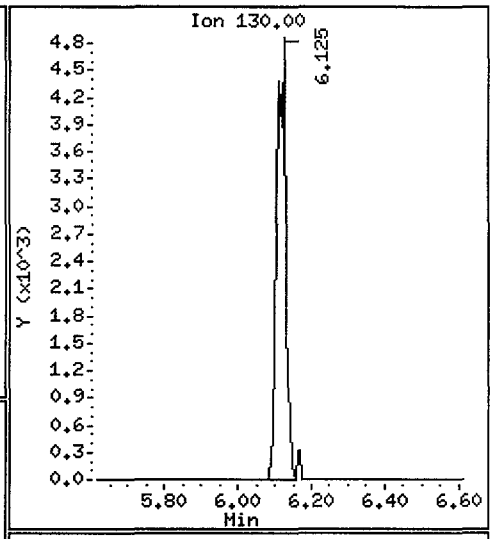
Column phase: J+W 624

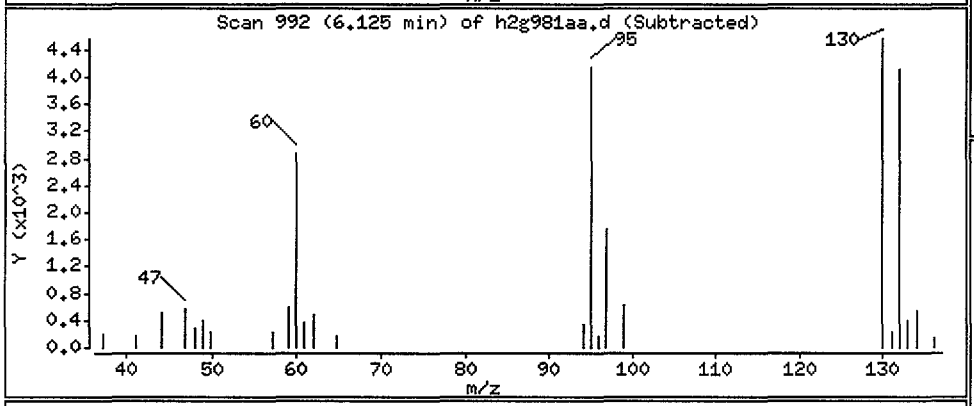
Column diameter: 0.18

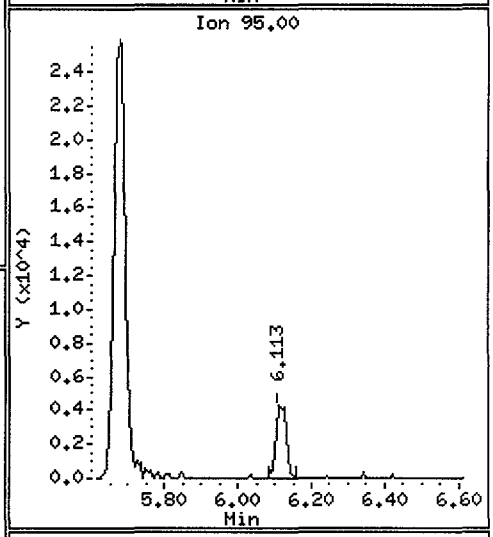
46 Trichloroethene

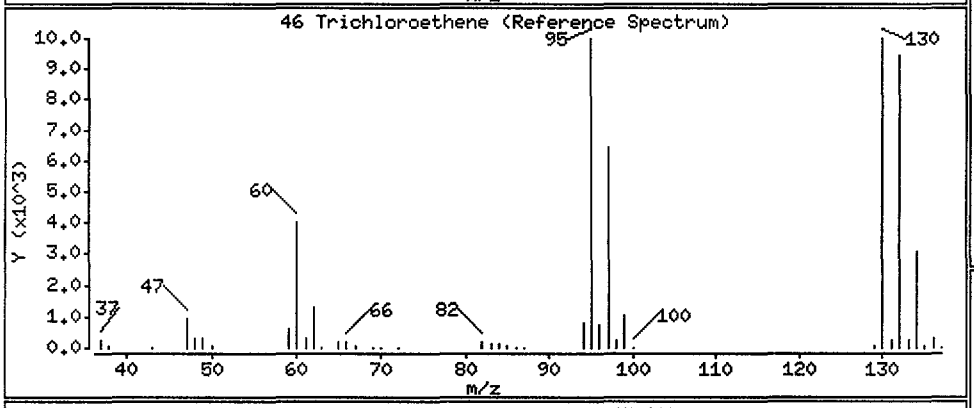
Concentration: 0.011116 ug

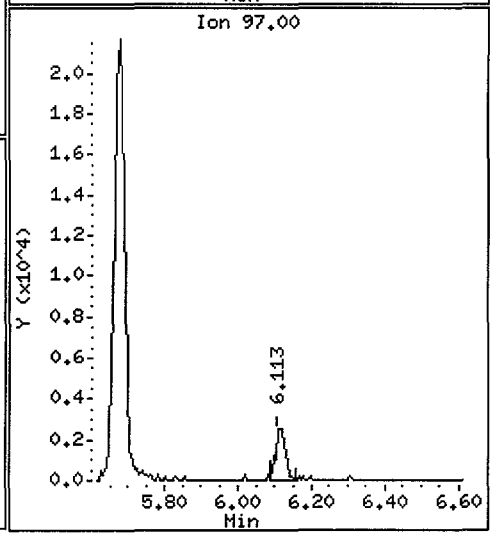


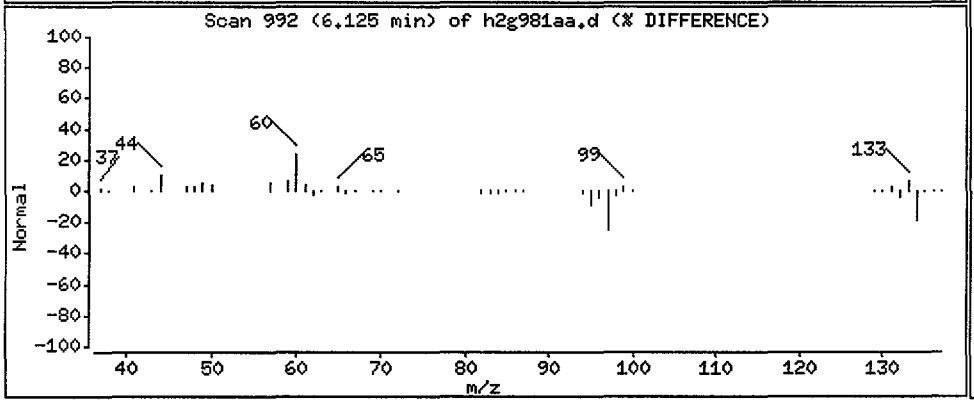












Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d

Date : 07-APR-2006 16:20

Client ID: G-3011-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G981AA,1,0,,

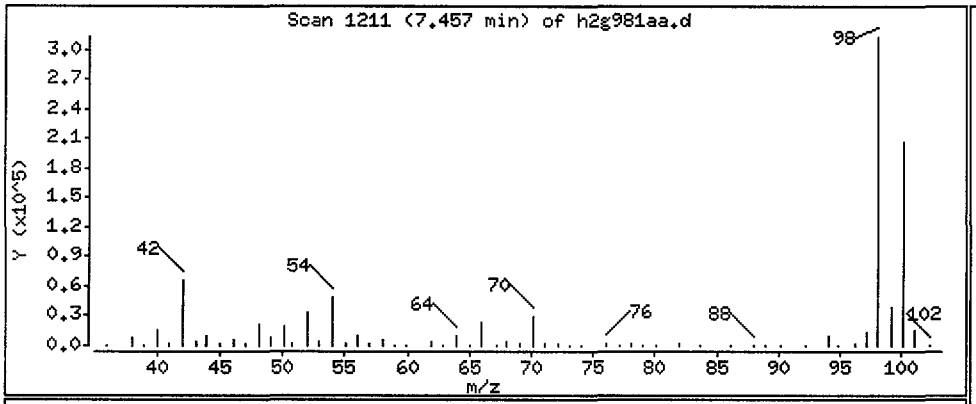
Operator: 22980

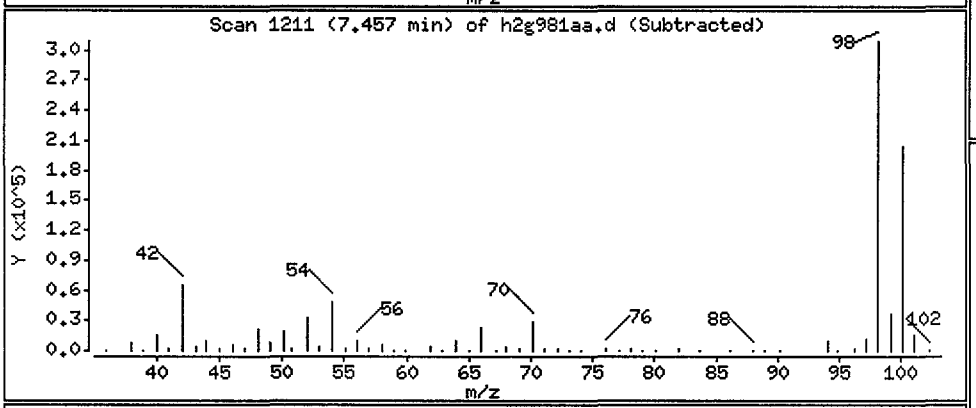
Column phase: J+W 624

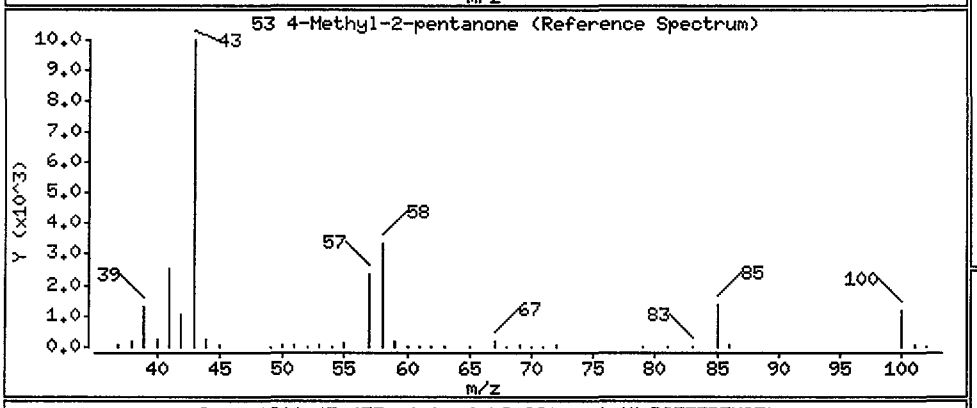
Column diameter: 0.18

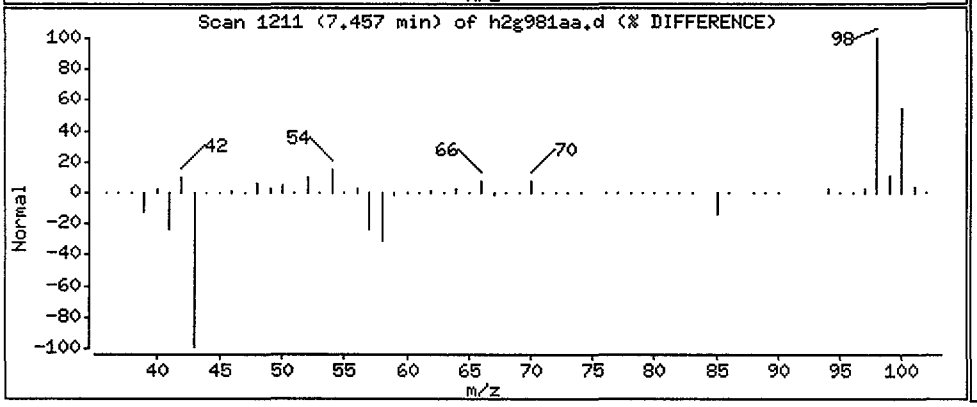
53 4-Methyl-2-pentanone

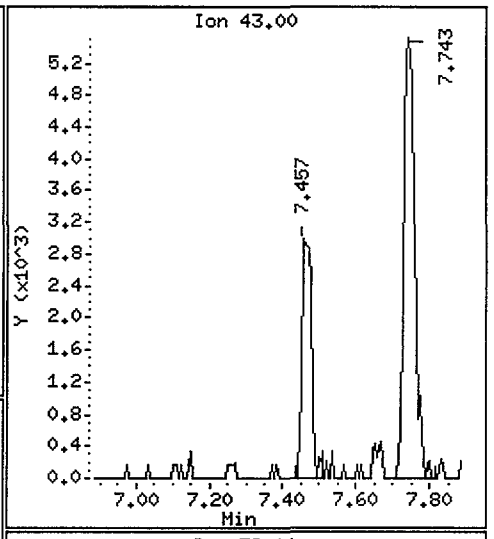
Concentration: 0.023205 ug

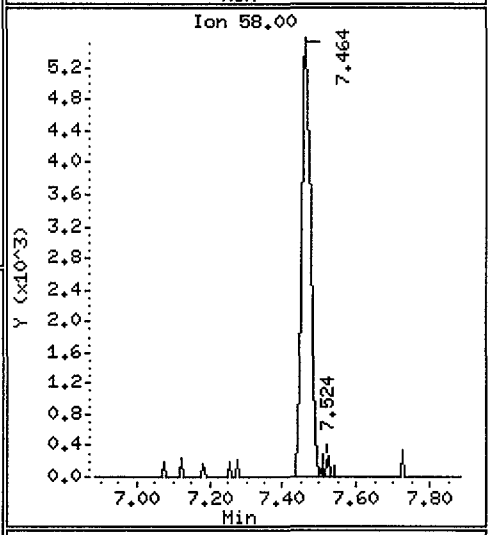


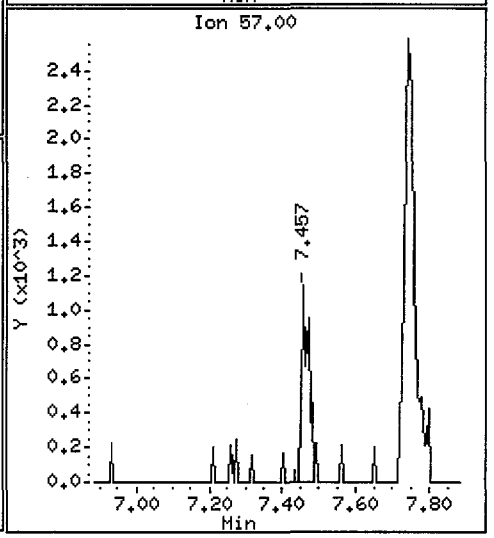












Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d

Date : 07-APR-2006 16:20

Client ID: G-3011-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G981AA,1,0,,

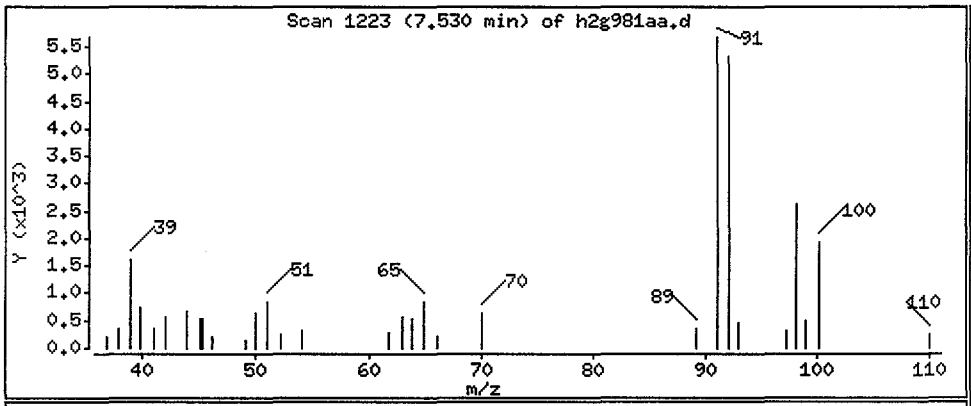
Operator: 22980

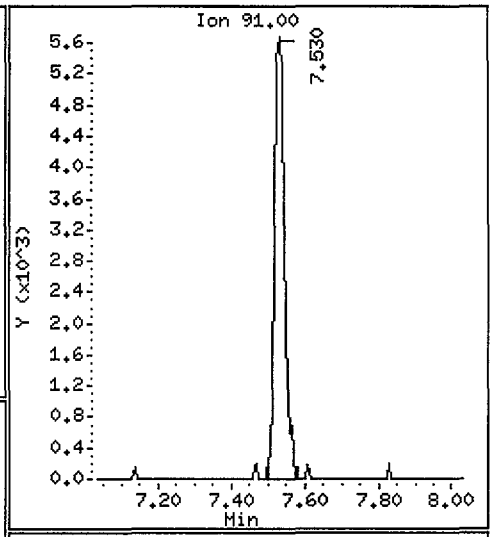
Column phase: J+W 624

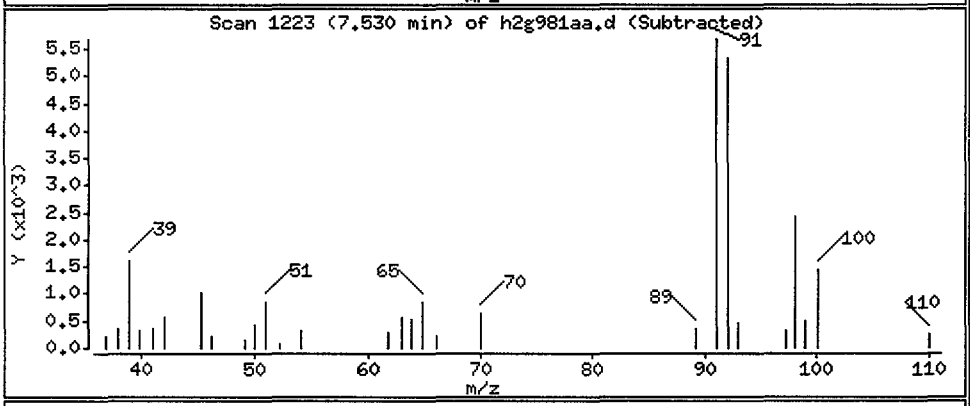
Column diameter: 0.18

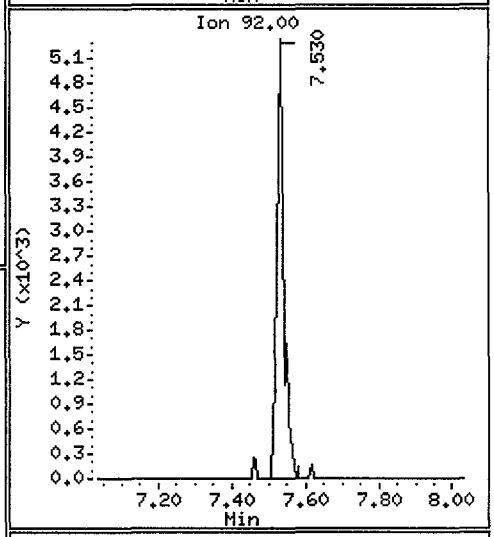
54 Toluene (ccc)

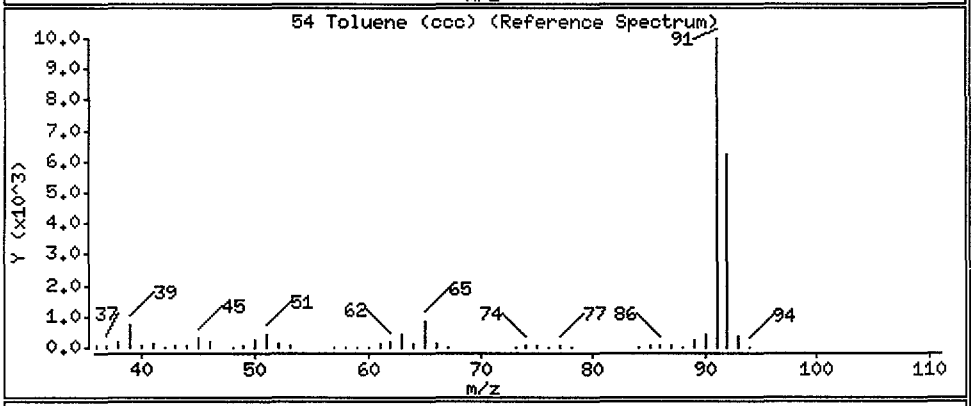
Concentration: 0.0027752 ug

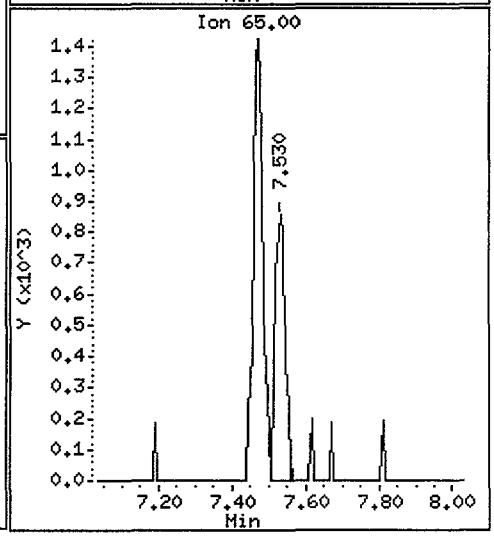


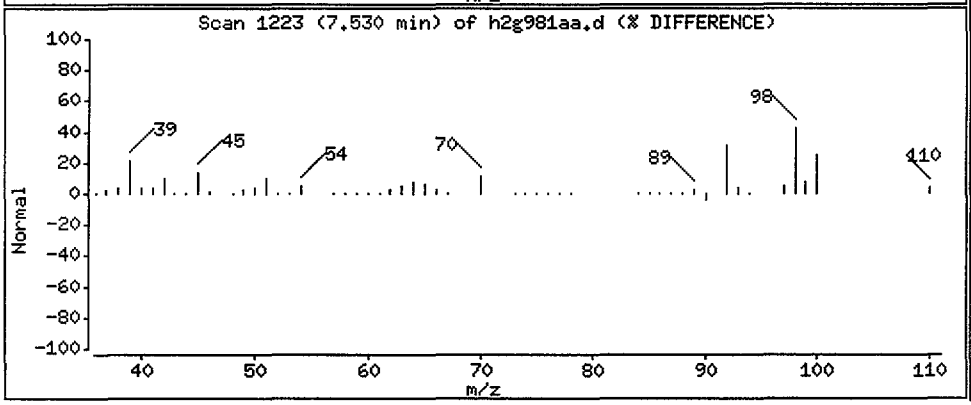












Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d

Date : 07-APR-2006 16:20

Client ID: G-3011-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G981AA,1,0,,

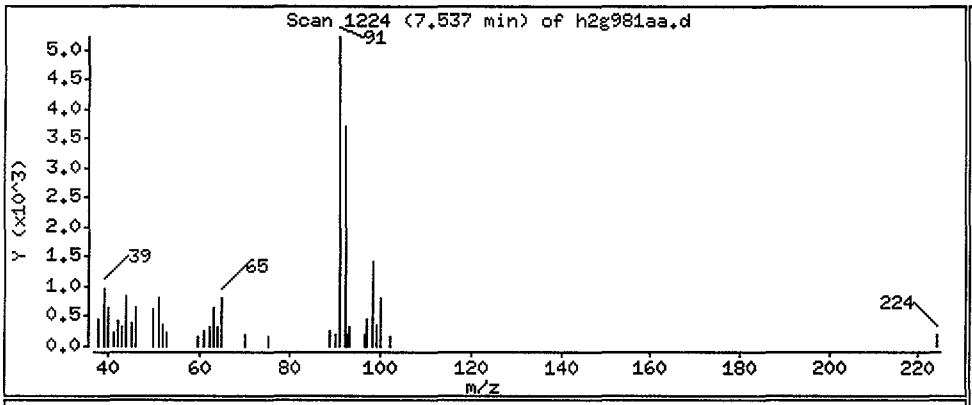
Operator: 22980

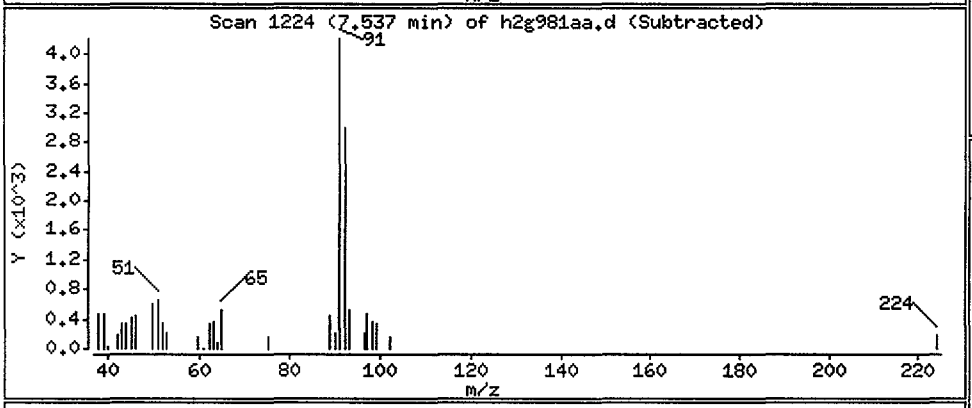
Column phase: J+W 624

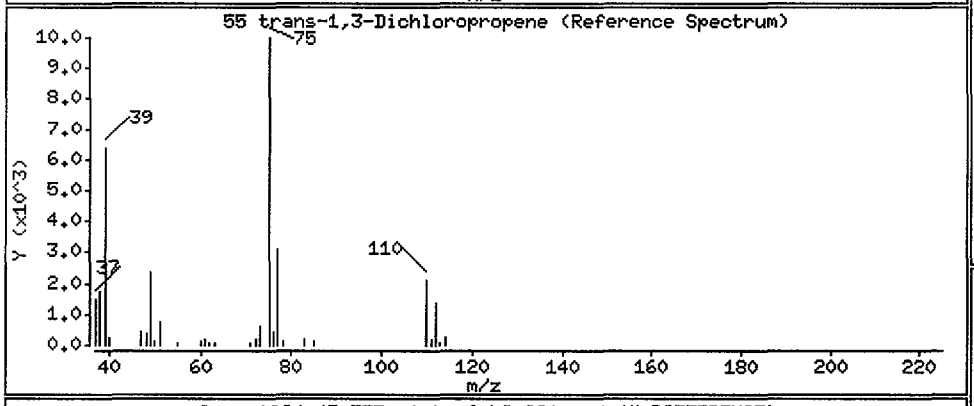
Column diameter: 0.18

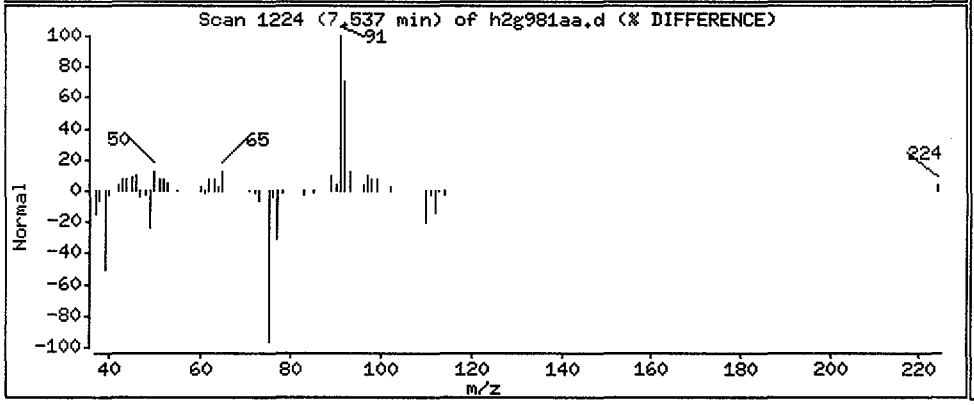
55 trans-1,3-Dichloropropene

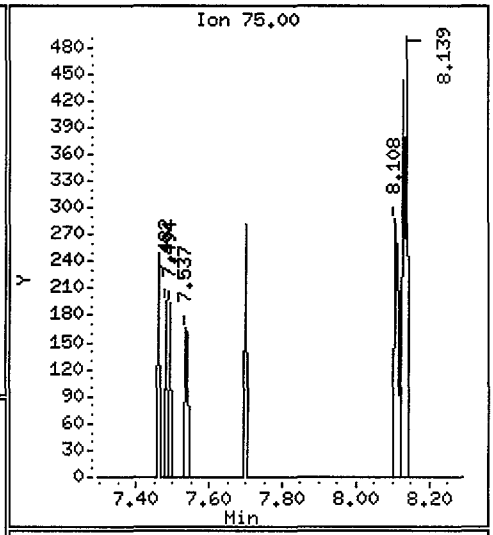
Concentration: 0.015832 ug

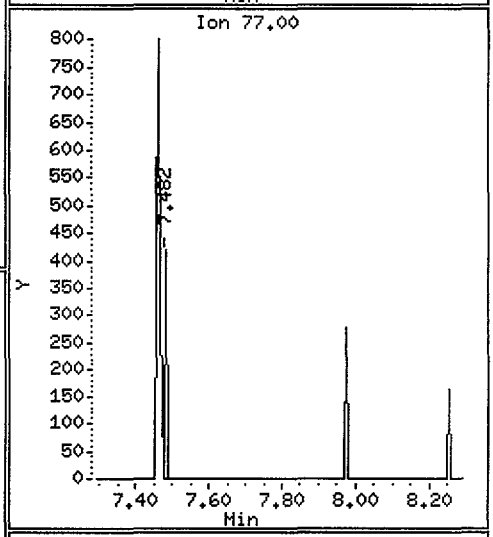


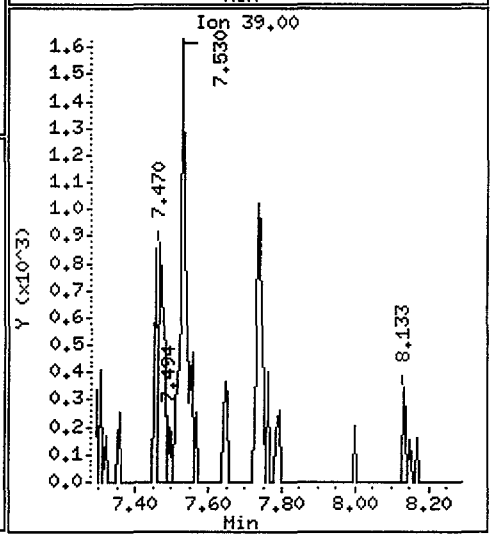












Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d

Date : 07-APR-2006 16:20

Client ID: G-3011-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G981AA,1,0,,

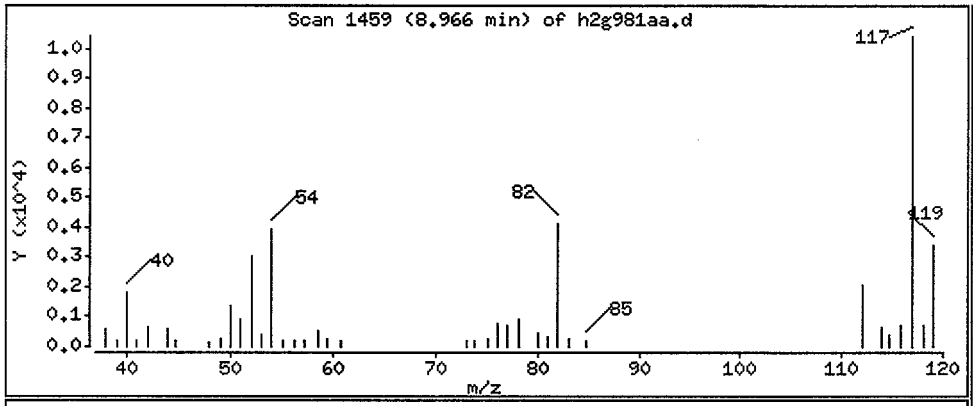
Operator: 22980

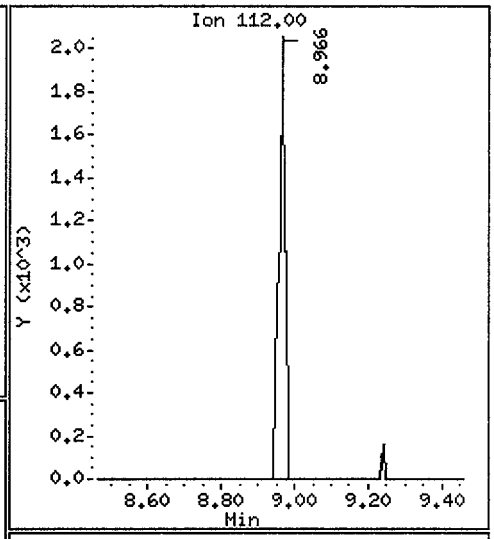
Column phase: J+W 624

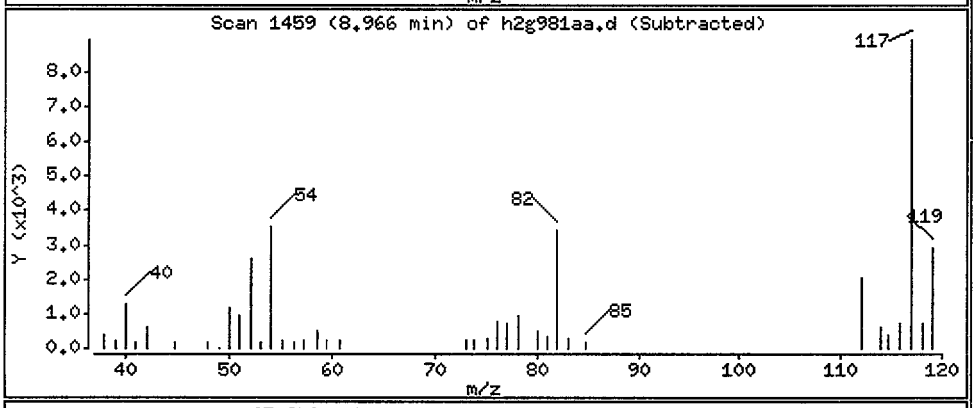
Column diameter: 0.18

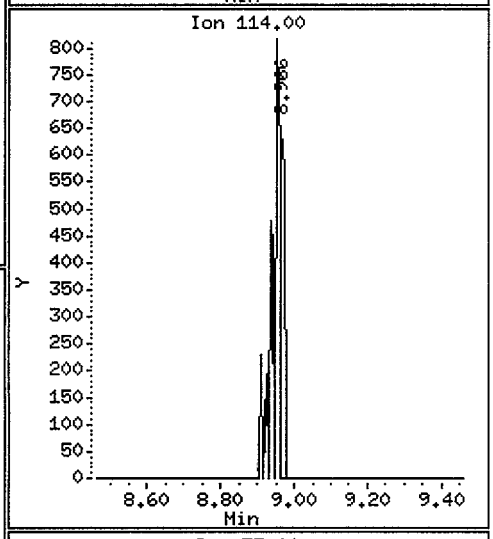
63 Chlorobenzene (spcc)

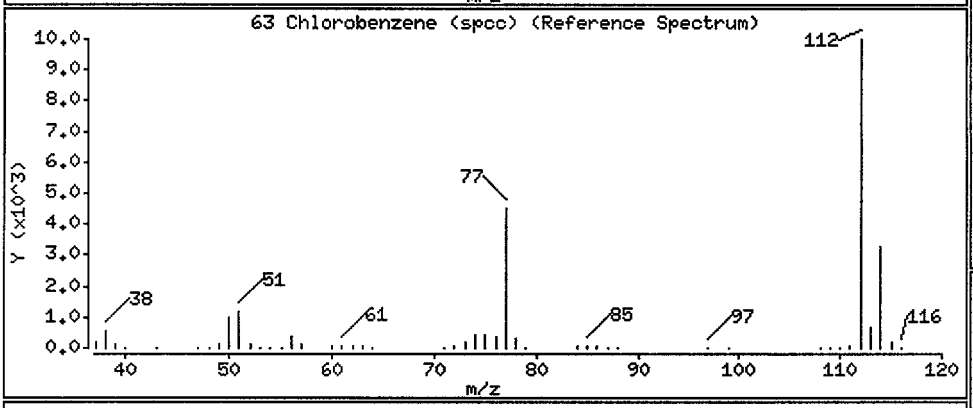
Concentration: 0.0011650 ug

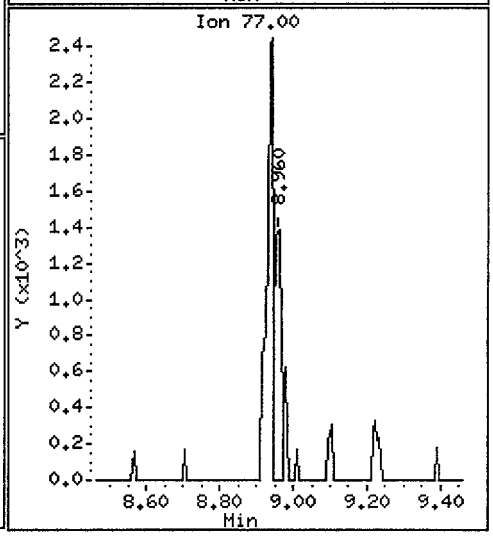


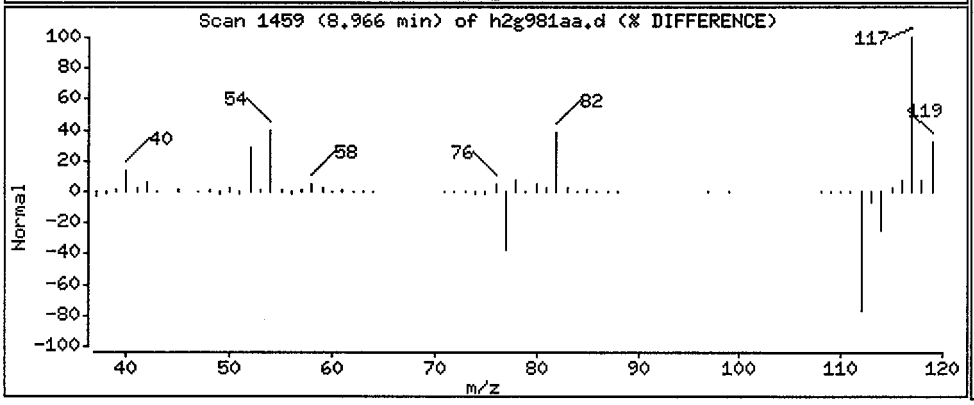












Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d

Date : 07-APR-2006 16:20

Client ID: G-3011-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G981AA,1,0,,

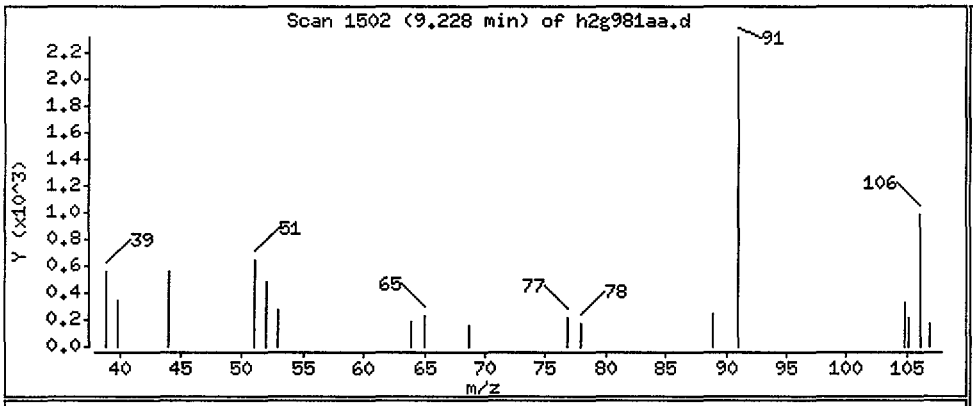
Operator: 22980

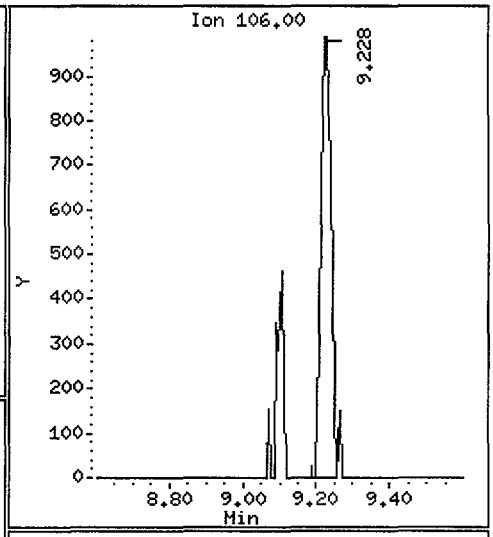
Column phase: J+W 624

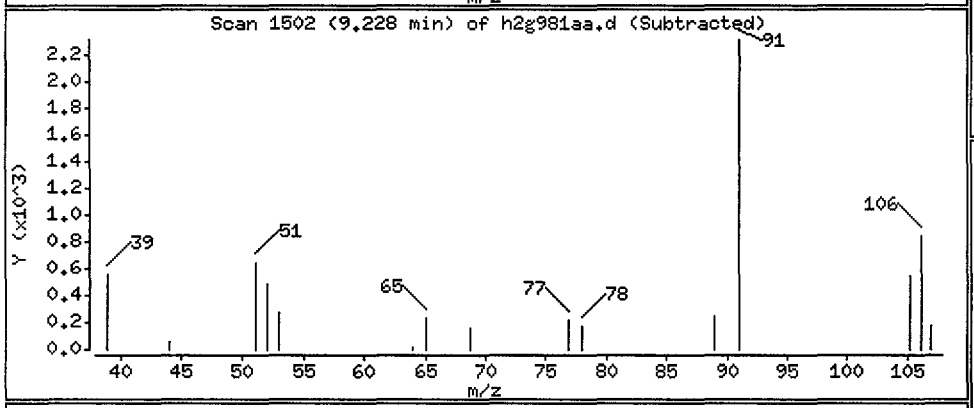
Column diameter: 0.18

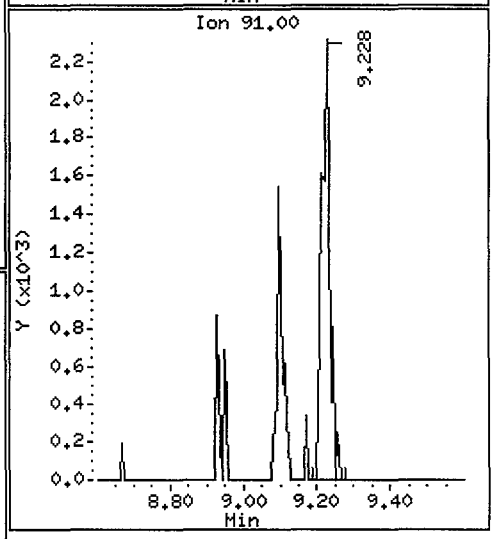
65 Ethylbenzene (ccc)

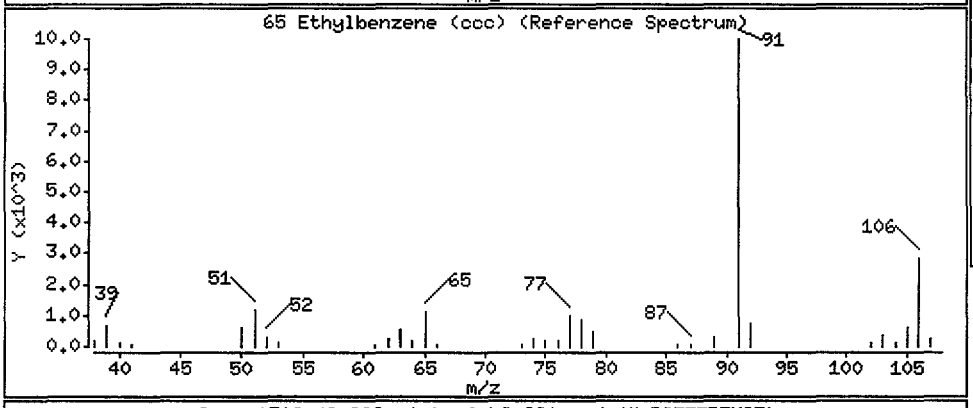
Concentration: 0.0014195 ug

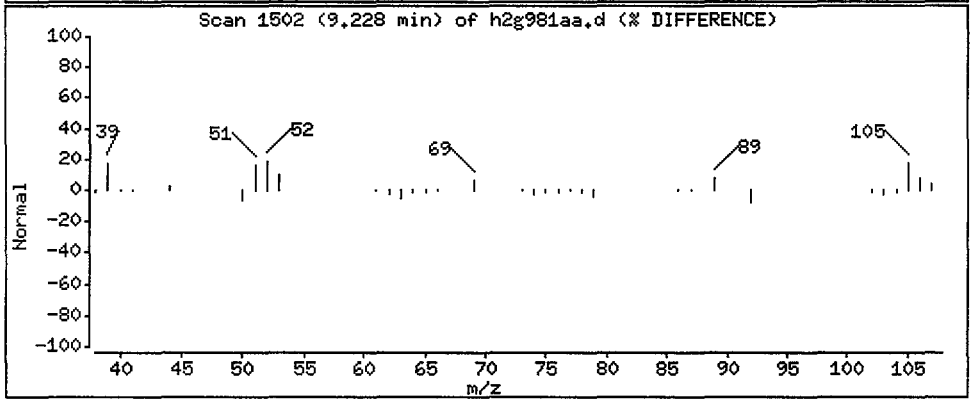












Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d

Date : 07-APR-2006 16:20

Client ID: G-3011-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G981AA,1,0,,

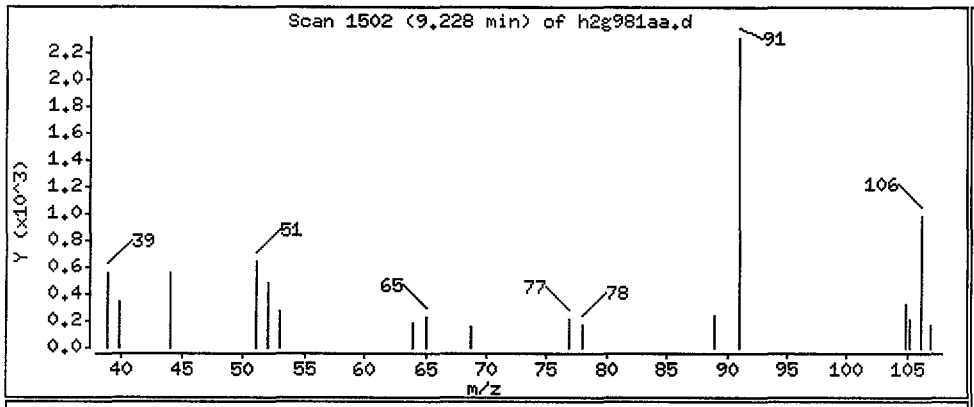
Operator: 22980

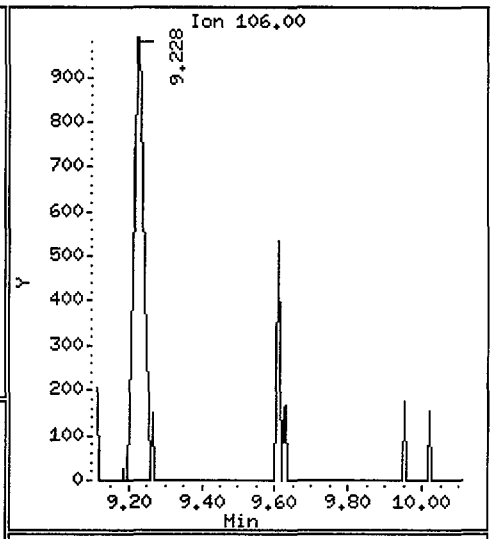
Column phase: J+W 624

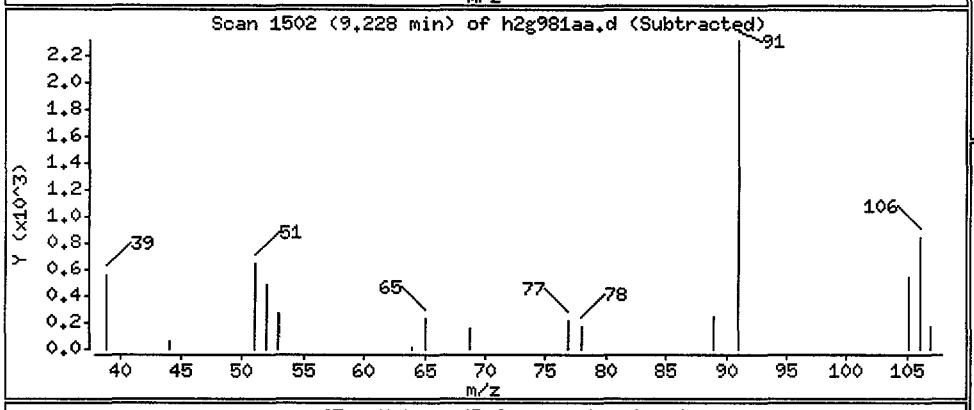
Column diameter: 0.18

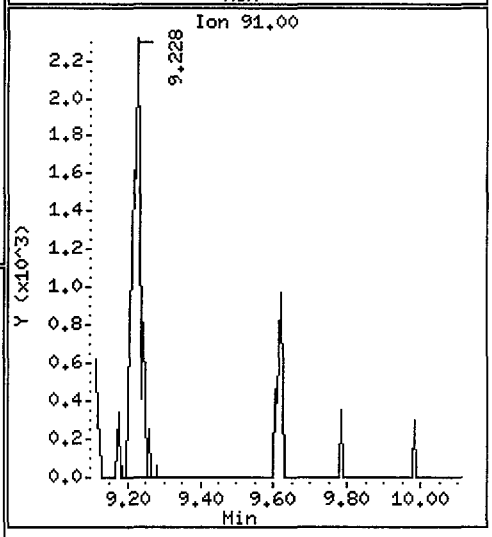
67 o-Xylene

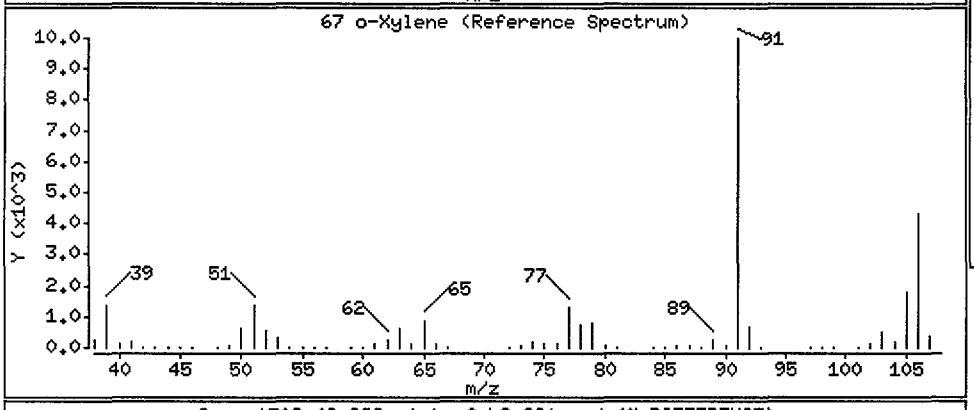
Concentration: 0.0013294 ug

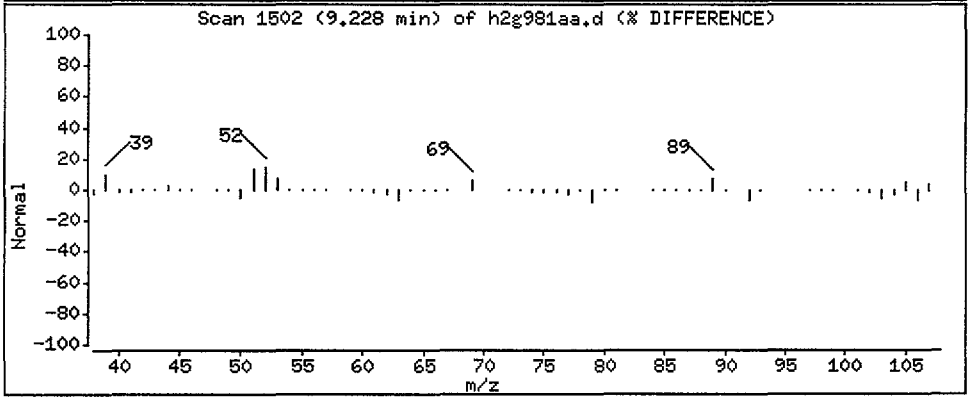












Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d

Date : 07-APR-2006 16:20

Client ID: G-3011-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G981AA,1,0,,

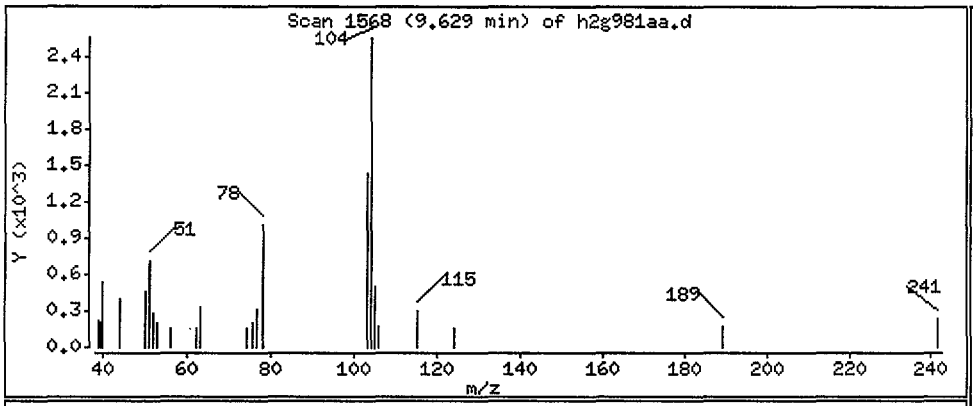
Operator: 22980

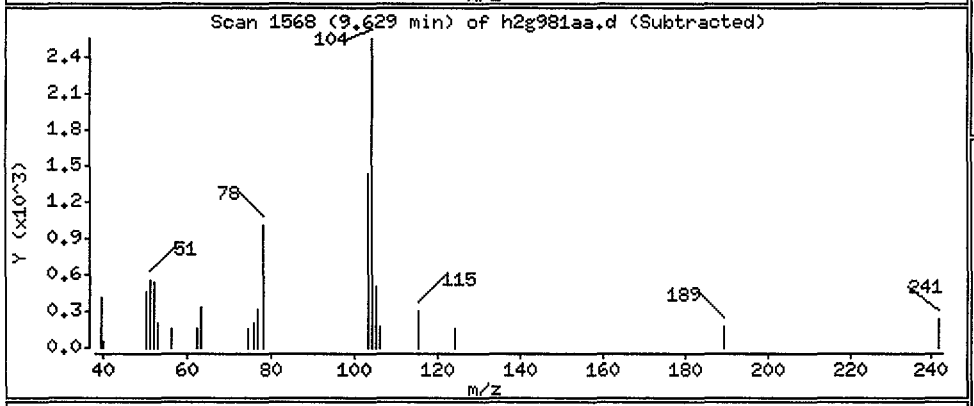
Column phase: J+W 624

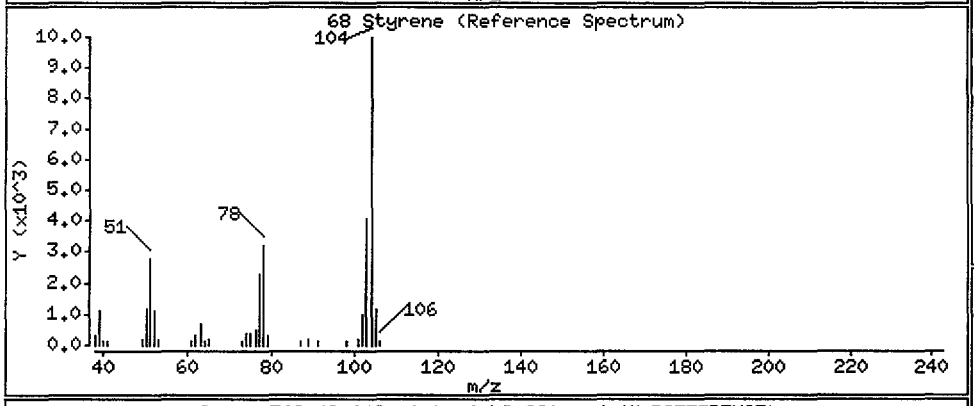
Column diameter: 0.18

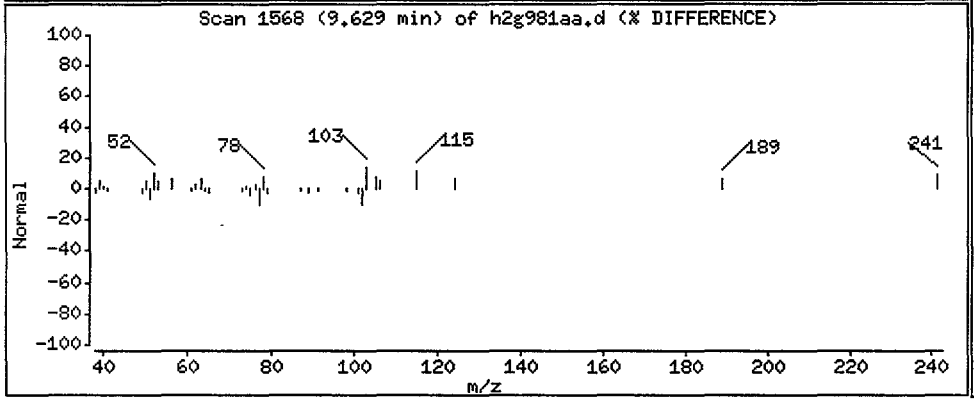
68 Styrene

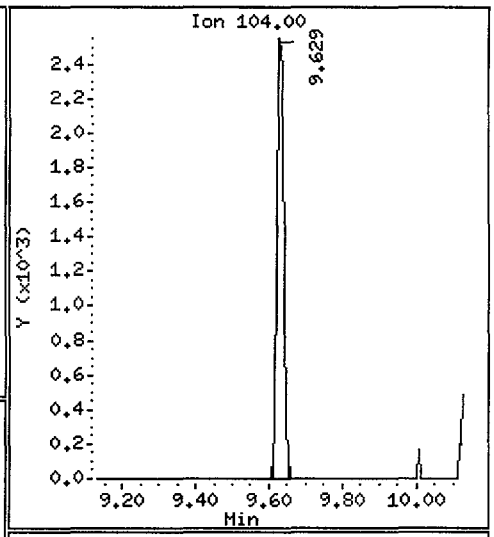
Concentration: 0.0014350 ug

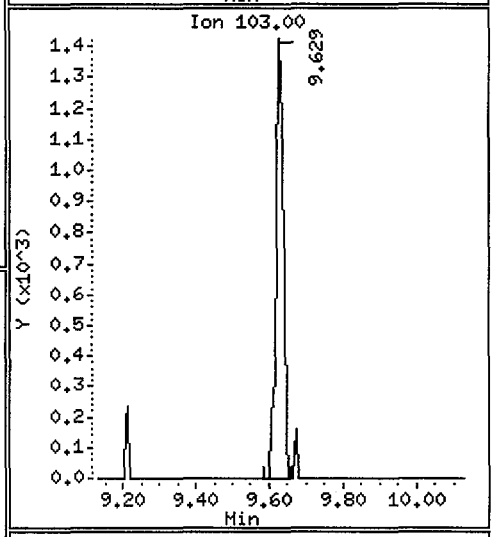


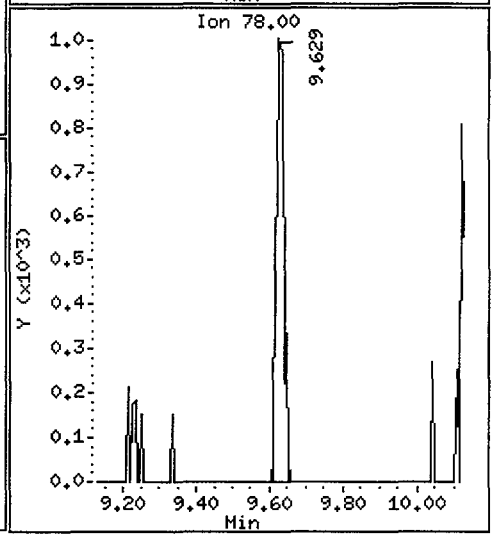












Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d

Date : 07-APR-2006 16:20

Client ID: G-3011-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G981AA,1,0,,

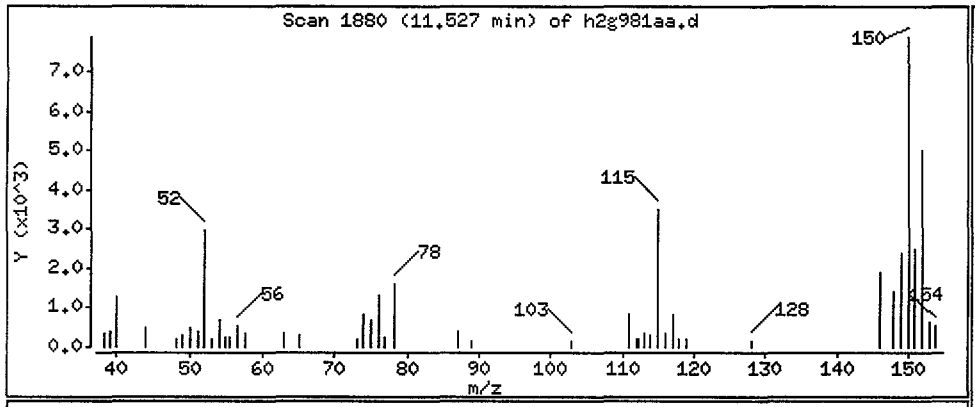
Operator: 22980

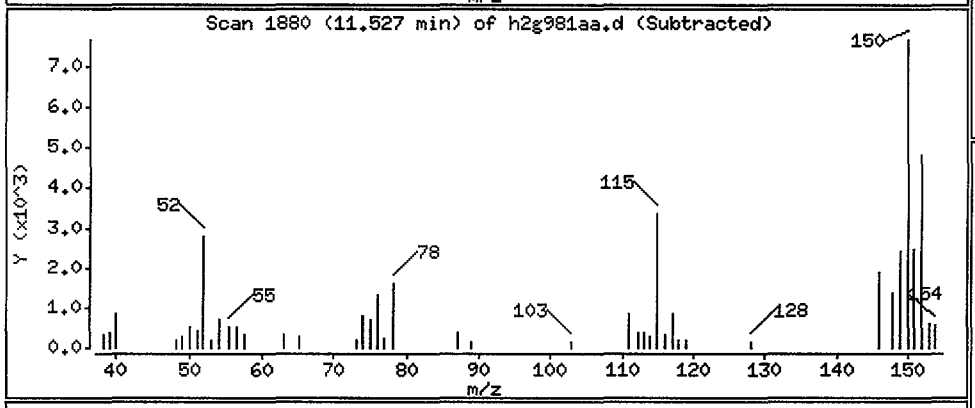
Column phase: J+W 624

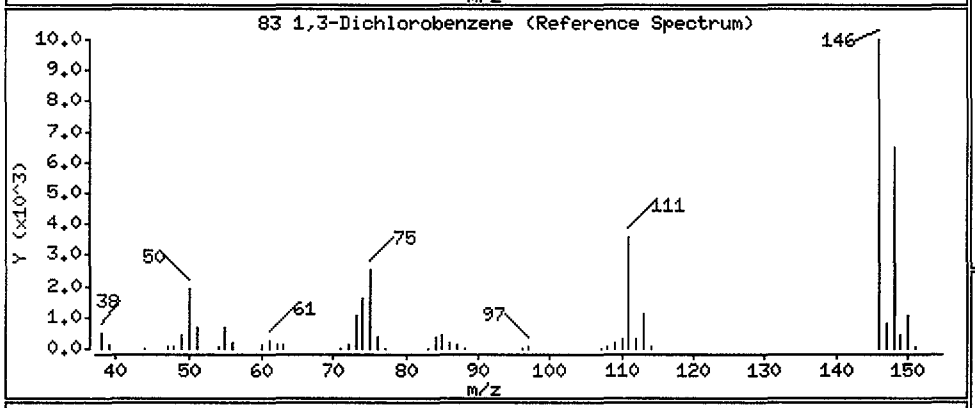
Column diameter: 0.18

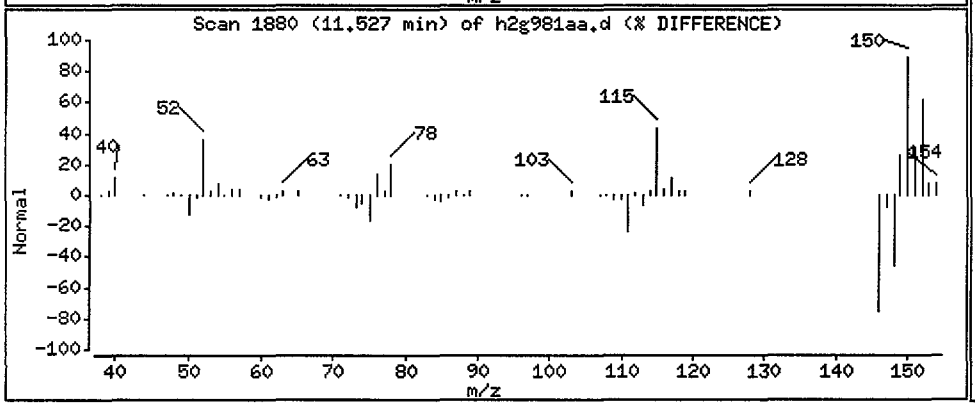
83 1,3-Dichlorobenzene

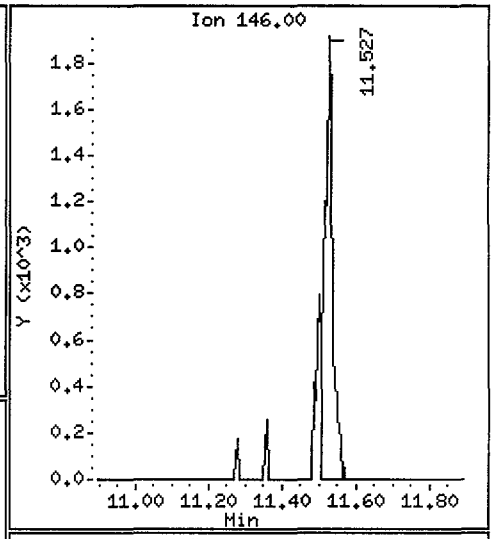
Concentration: 0.0017849 ug

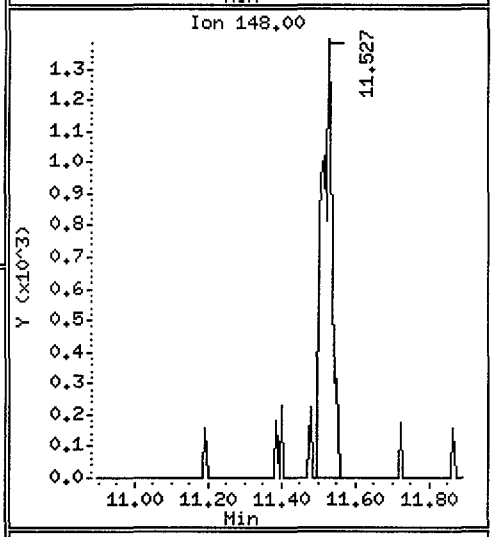


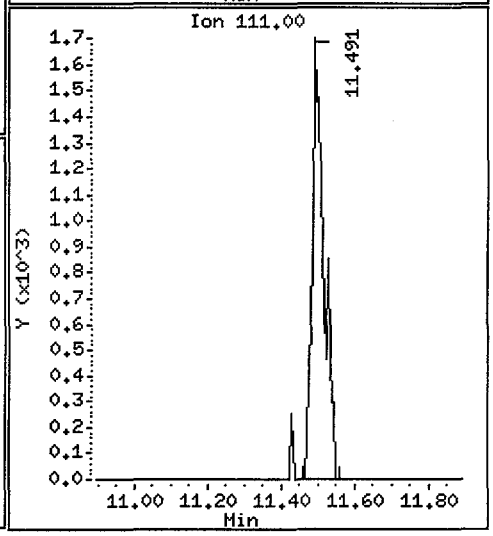












Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d

Date : 07-APR-2006 16:20

Client ID: G-3011-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G981AA,1,0,,

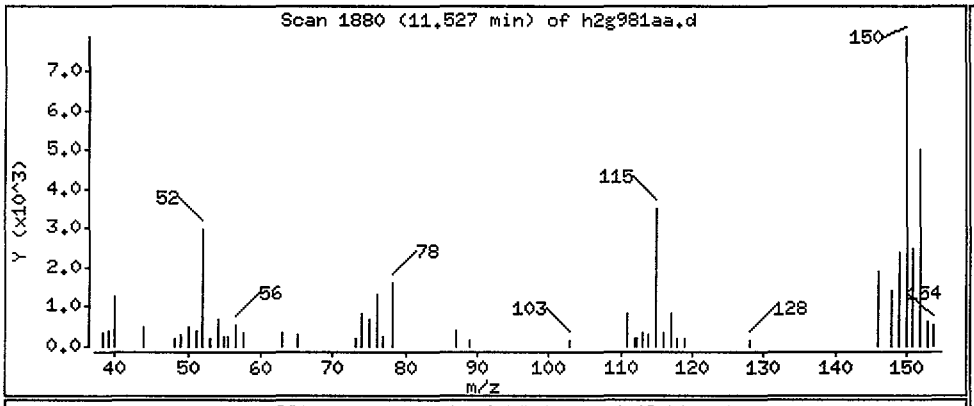
Operator: 22980

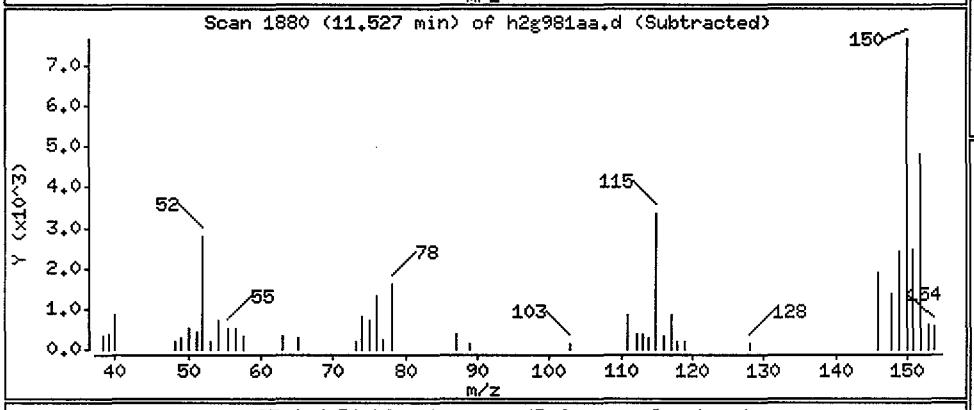
Column phase: J+W 624

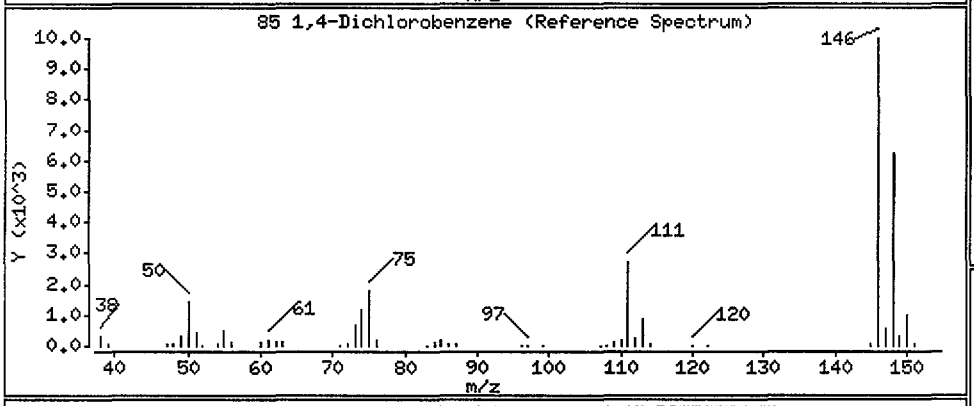
Column diameter: 0.18

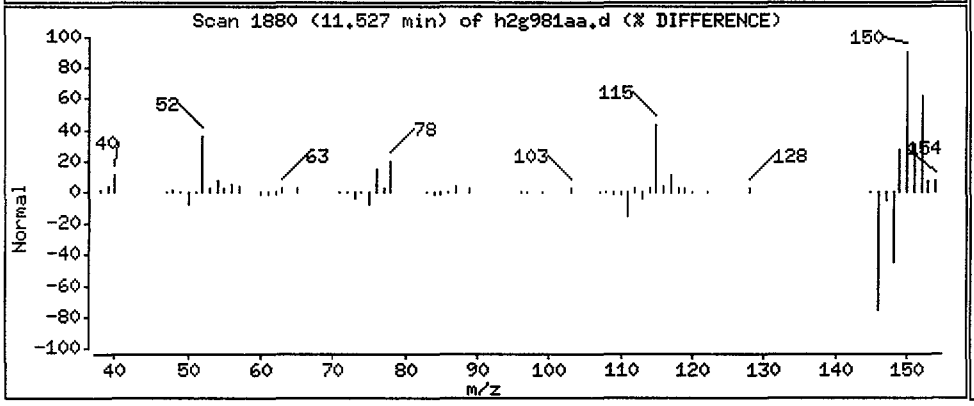
85 1,4-Dichlorobenzene

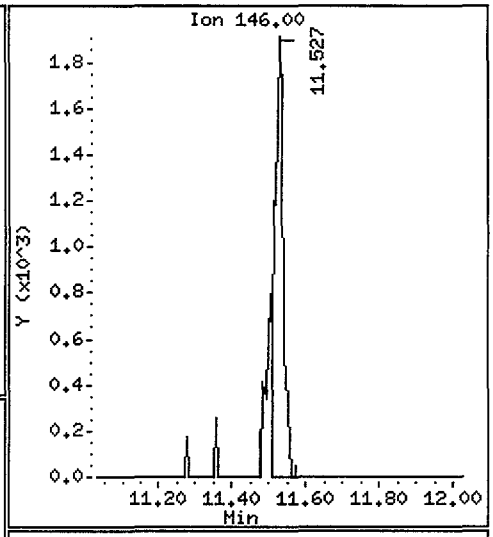
Concentration: 0.0019189 ug

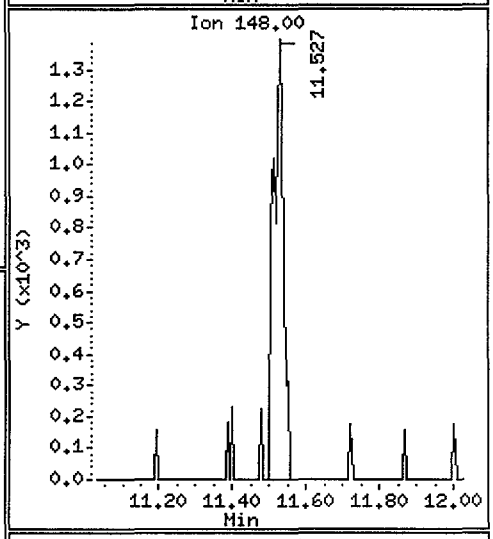


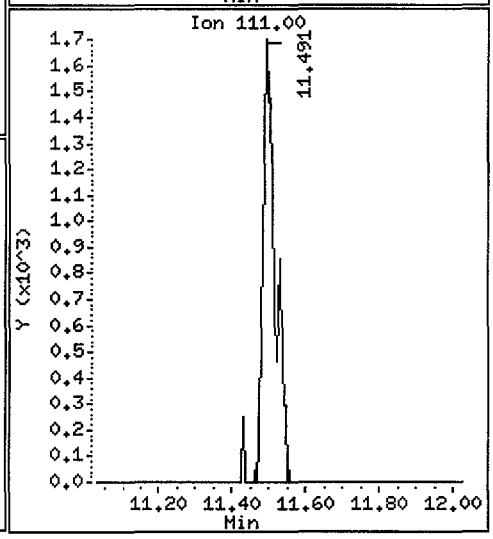












Data File: /var/chem/gcms/mz.i/Z040706.b/h2g981aa.d
Report Date: 14-Apr-2006 16:59

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2g981aa.d
Lab Smp Id: H2G981AA Client Smp ID: G-3011-R2-VOST PAIR
Inj Date : 07-APR-2006 16:20
Operator : 22980 Inst ID: mz.i
Smp Info : H2G981AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment   : Volatile Organics by GC/MS
Method   : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

STL Knoxville - ACS

Client Sample ID: G-3012-R2-VOST PAIR #4 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-018 **Work Order #...:** H2G991AA **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.35**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.028**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	**0.039**	**0.010**	**ug**	**0.0016**
Bromoform	**0.17**	**0.025**	**ug**	**0.0066**
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.014**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.0049 J**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**2.0**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	**0.11**	**0.025**	**ug**	**0.010**
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.027**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3012-R2-VOST PAIR #4 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-018 **Work Order #...:** H2G991AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	**0.0023 J**	**0.010**	**ug**	**0.0023**
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	**0.010 J**	**0.025**	**ug**	**0.010**
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.14**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.021**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.0061 J**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	**0.0068 J**	**0.020**	**ug**	**0.0034**
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	**0.0068 J**	**0.030**	**ug**	**0.0048**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	68	(50 - 134)
1,2-Dichloroethane-d4	68	(50 - 134)
Toluene-d8	66	(57 - 127)
Bromofluorobenzene	54	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3012-R2-VOST PAIR #4 TENAX

GC/MS Volatiles

Lot-Sample #: H6D030169-018 **Work Order #:** H2G991AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d
Report Date: 07-Apr-2006 14:34

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /chem/gcms/mx.i/X040706.b/h2g991aa.d
Lab Smp Id: H2G991AA Client Smp ID: G-3012-R2-VOST PAIR
Inj Date : 07-APR-2006 14:17
Operator : 22980 Inst ID: mx.i
Smp Info : H2G991AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 11:23 gosss Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

04/7/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	4.853	4.851	(1.000)	1160873	10.0000	
* 2 Chlorobenzene-d5	119	7.585	7.582	(1.000)	224887	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.748	10.746	(1.000)	245735	10.0000	
$ 4 Dibromofluoromethane	113	4.269	4.273	(0.880)	134640	6.82162	0.17054
$ 5 1,2-Dichloroethane-d4	65	4.549	4.553	(0.937)	105279	6.84303	0.17108
$ 6 Toluene-d8	98	6.253	6.250	(0.824)	727200	6.60458	0.16511
$ 7 4-Bromofluorobenzene	95	8.875	8.872	(0.826)	157584	5.40858	0.13521
M 9 Xylene (total)	106				29561	0.58740	0.014685
11 Chloromethane (spcc)	50	1.252	1.262	(0.258)	3840	0.07100	0.0017751
21 Acetone	43	2.371	2.381	(0.489)	23329	14.1889	0.35472
23 Carbon Disulfide	76	2.499	2.497	(0.515)	50977	0.57620	0.014405
26 Methylene Chloride	84	2.742	2.746	(0.565)	7693	0.42868	0.010717
33 *Vinyl Acetate	86	3.247	3.421	(0.669)	1877	1.42210	~~0.035552~~
36 2-Butanone	43	3.874	3.871	(0.798)	7165	2.79388	~~0.069847~~
38 *THF	42	4.099	4.109	(0.845)	1452	0.92411	0.023103
39 Chloroform (ccc)	83	4.136	4.139	(0.852)	47914	1.08596	0.027149
41 Carbon Tetrachloride	117	4.434	4.437	(0.914)	8193	0.19662	0.0049154
42 1,1-Dichloropropene	75	4.610	4.437	(0.950)	2713	0.05903	~~0.0014757~~
43 Benzene	78	4.610	4.607	(0.950)	130606	1.11090	0.027772
44 1,2-Dichloroethane	62	4.604	4.620	(0.949)	1266	0.06400	~~0.0016000~~

4/19/06

Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d
Report Date: 07-Apr-2006 14:34

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
45 Trichloroethene	130	5.170	5.173	(1.065)	7654	0.24263	0.0060656
48 Dibromomethane	93	5.608	5.459	(1.155)	1029	0.15641	0.0039102
49 Bromodichloromethane	83	5.608	5.605	(1.155)	38901	1.57936	0.039484
52 4-Methyl-2-pentanone	43	6.253	6.147	(1.288)	6011	0.97881	0.024470
53 Toluene (ccc)	91	6.307	6.311	(0.832)	108427	0.82311	0.020578
54 trans-1,3-Dichloropropene	75	6.721	6.506	(0.886)	10314	0.44675	0.011169
56 1,1,2-Trichloroethane	97	6.818	6.670	(0.899)	1332	0.12803	0.0032008
57 Tetrachloroethene	164	6.818	6.816	(0.899)	160681	5.67694	0.14192
59 2-Hexanone	43	6.721	6.907	(0.886)	3010	0.68399	0.017100
60 Chlorodibromomethane	129	7.031	7.035	(0.927)	58069	4.50412	0.11260
62 Chlorobenzene (spcc)	112	7.615	7.607	(1.004)	5390583	79.7163	1.9929
64 Ethylbenzene (ccc)	106	7.713	7.716	(1.017)	2095	0.04506	0.0011264
65 m&p-Xylene	106	7.834	7.838	(1.033)	14814	0.27181	0.0067952
66 o-Xylene	106	7.834	8.251	(1.033)	14746	0.31559	0.0078898
68 Bromoform (spcc)	173	8.461	8.464	(1.115)	41811	6.71022	0.16776
69 Isopropylbenzene	105	8.686	8.689	(1.145)	13723	0.09158	0.0022894
73 1,2,3-Trichloropropane	110	9.240	9.115	(0.860)	2936	1.27986	0.031996
80 1,2,4-Trimethylbenzene	105	10.085	10.125	(0.938)	26561	0.33502	0.0083754
90 Napthalene	128	13.948	13.946	(1.298)	4276	0.40110	0.010027

4/19/06

Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d
Report Date: 07-Apr-2006 14:34

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: h2g991aa.d
Lab Smp Id: H2G991AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 09:16
Client Smp ID: G-3012-R2-VOST PAIR
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1149191	574596	2298382	1160873	1.02
2 Chlorobenzene-d5	214194	107097	428388	224887	4.99
3 1,4 Dichlorobenze	242601	121300	485202	245735	1.29

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	0.05
2 Chlorobenzene-d5	7.58	7.08	8.08	7.58	0.03
3 1,4 Dichlorobenze	10.75	10.25	11.25	10.75	0.02

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

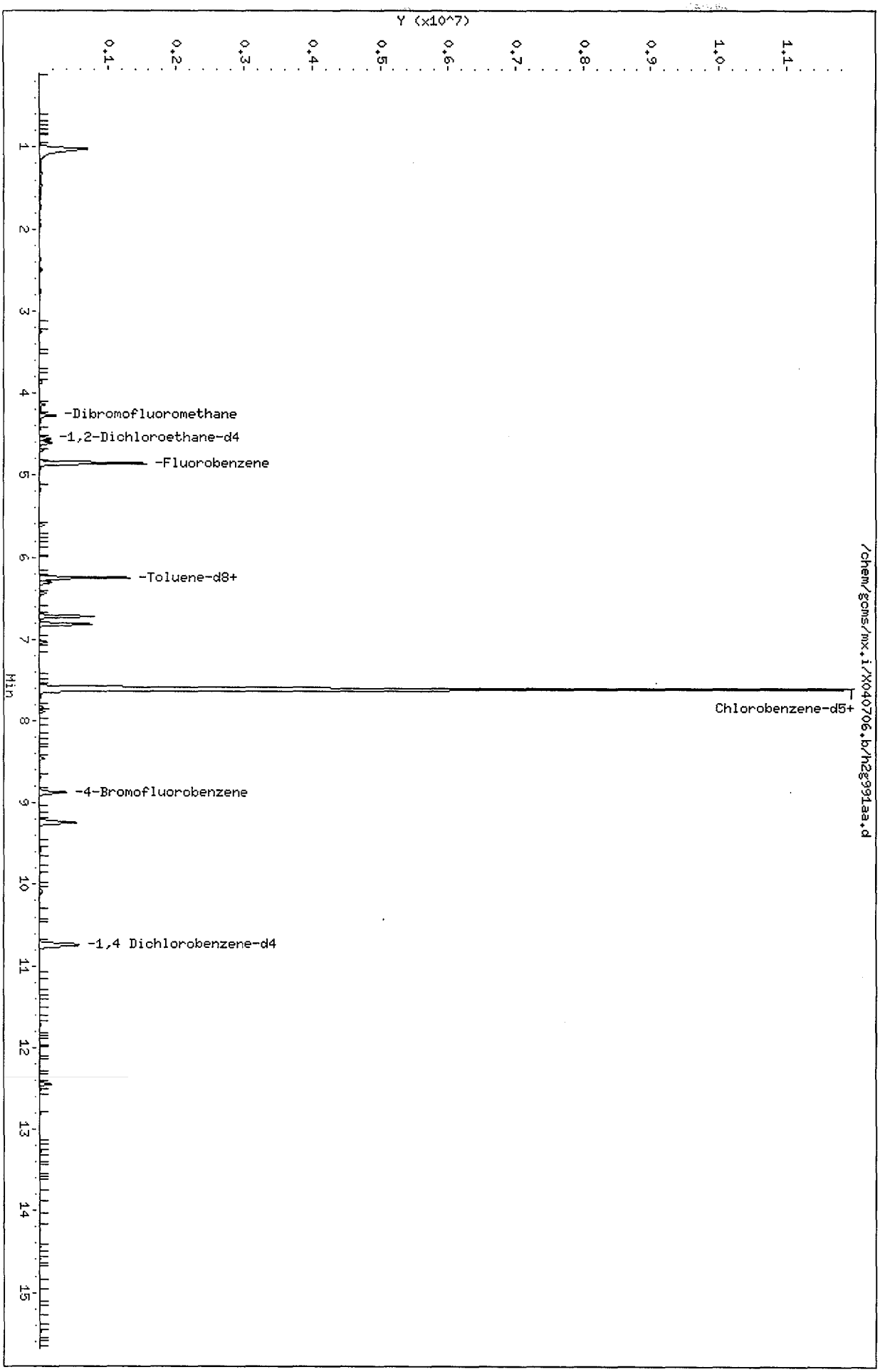
Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d
Report Date: 07-Apr-2006 14:34

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030169
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: H2G991AA
Client Smp ID: G-3012-R2-VOST PAIR
Level: LOW
Operator: 22980
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allcmpds.spk
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.17054	68.22	50-150
$ 5 1,2-Dichloroethane	0.25000	0.17108	68.43	50-150
$ 6 Toluene-d8	0.25000	0.16511	66.05	50-150
$ 7 4-Bromofluorobenze	0.25000	0.13521	54.09	50-150


Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d
Date : 07-APR-2006 14:17
Client ID: G-3012-R2-VOST PAIR
Sample Info: H2G991AA,1,0,,,
Column phase: J+W 624
Instrument: mx.i
Operator: 22980
Column diameter: 0.18
Y (x10^7)
/chem/gcms/mx.i/X040706.b/h2g991aa.d
-Dibromofluoromethane
-1,2-Dichloroethane-d4
-Fluorobenzene
-Toluene-d8+
Chlorobenzene-d5+
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4
Min

Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

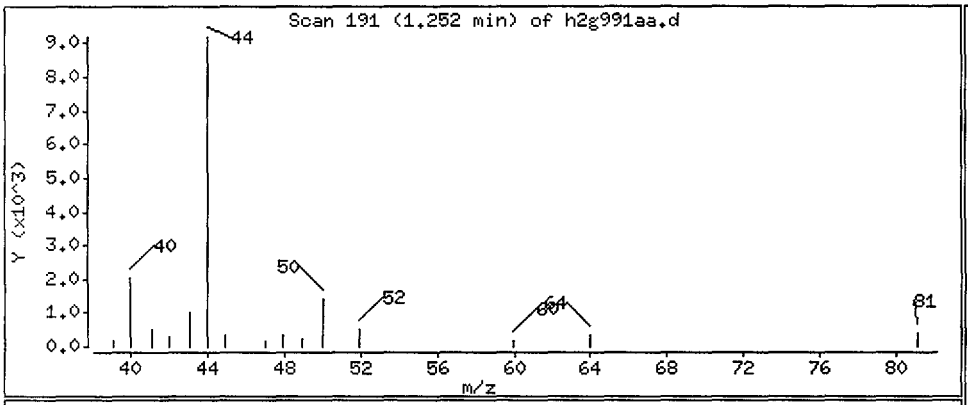
Operator: 22980

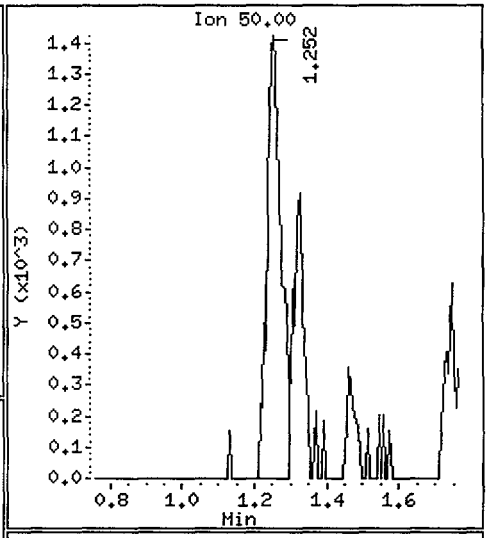
Column phase: J+W 624

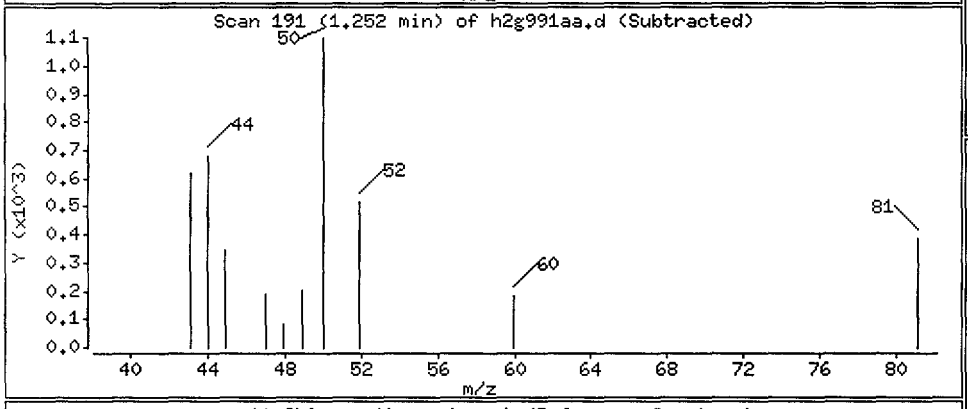
Column diameter: 0.18

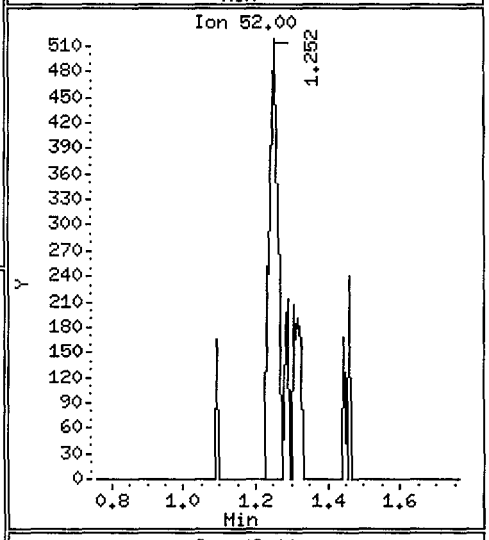
11 Chloromethane (spcc)

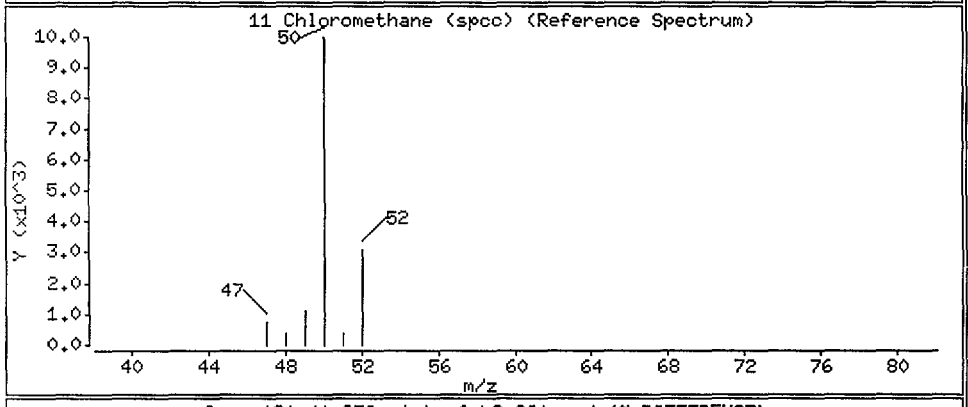
Concentration: 0.0017751 ug

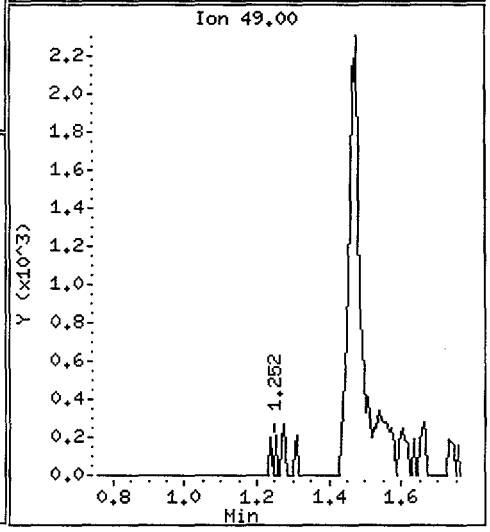


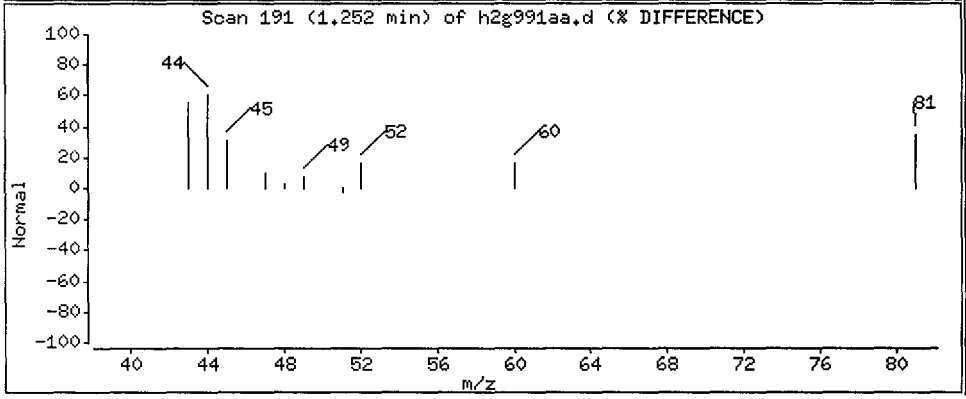












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

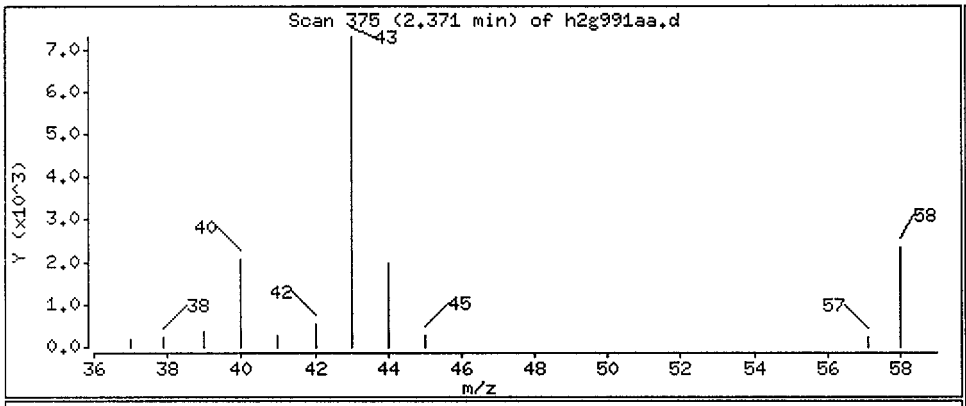
Operator: 22980

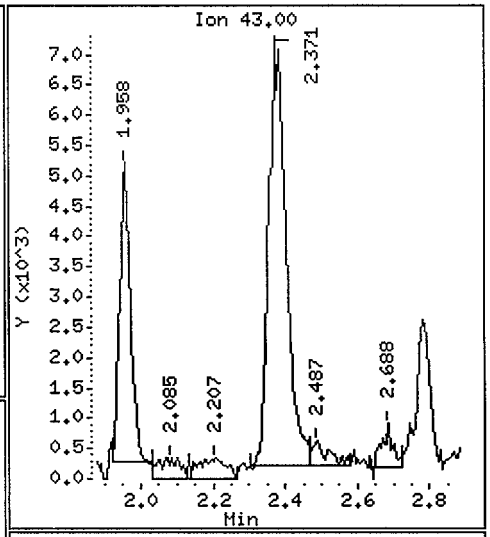
Column phase: J+W 624

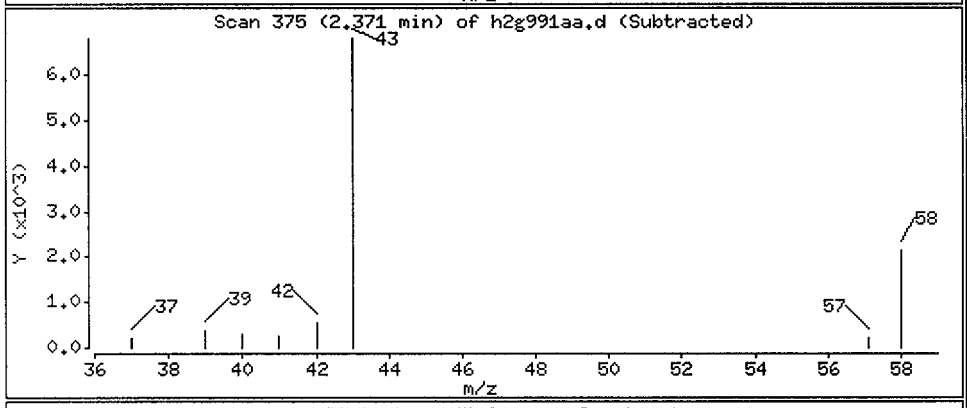
Column diameter: 0.18

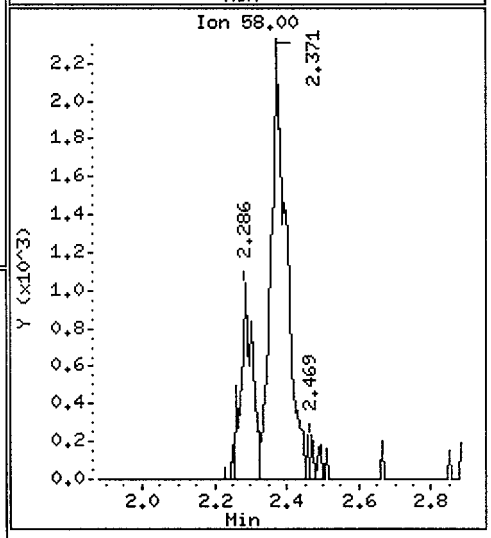
21 Acetone

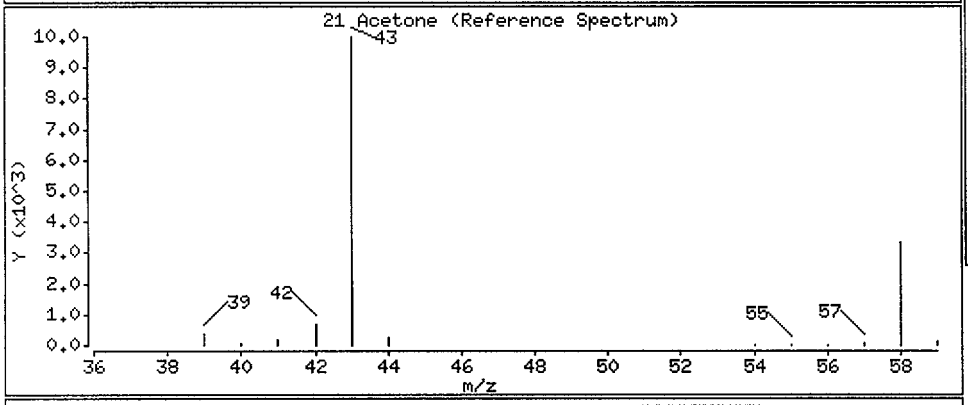
Concentration: 0.35472 ug

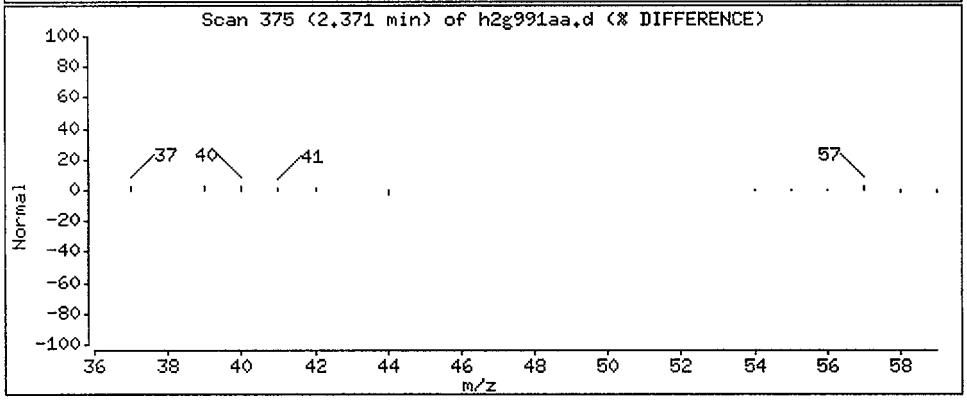












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

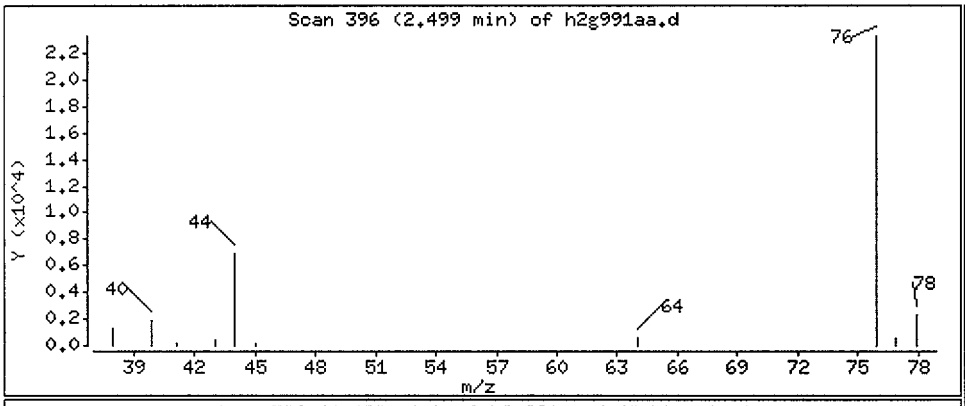
Operator: 22980

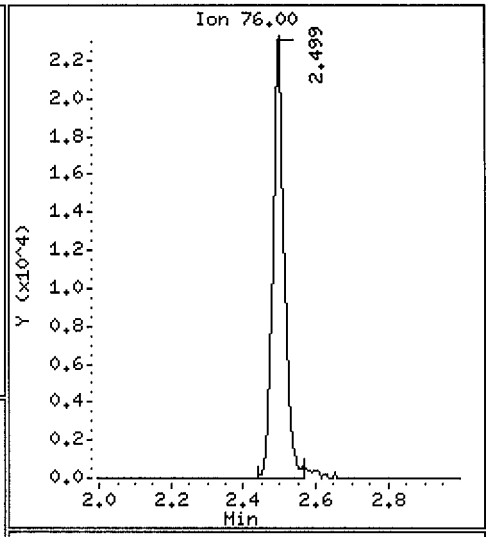
Column phase: J+W 624

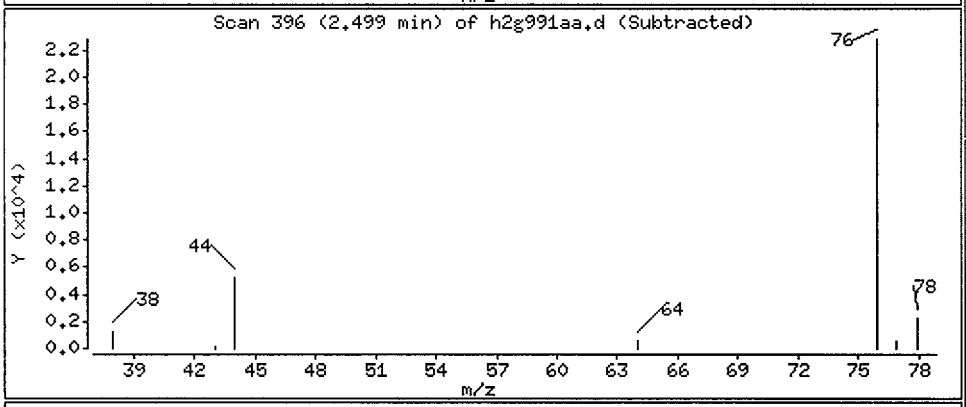
Column diameter: 0.18

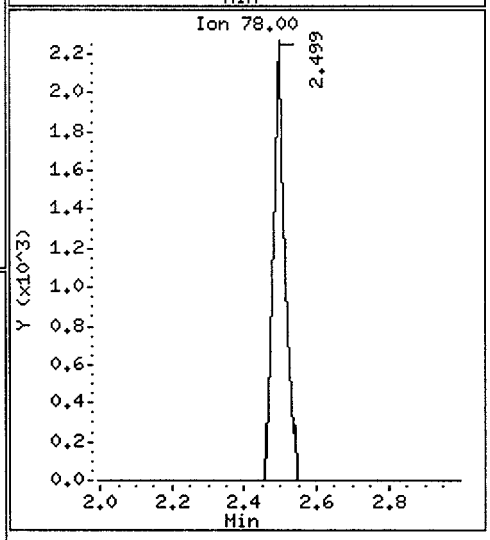
23 Carbon Disulfide

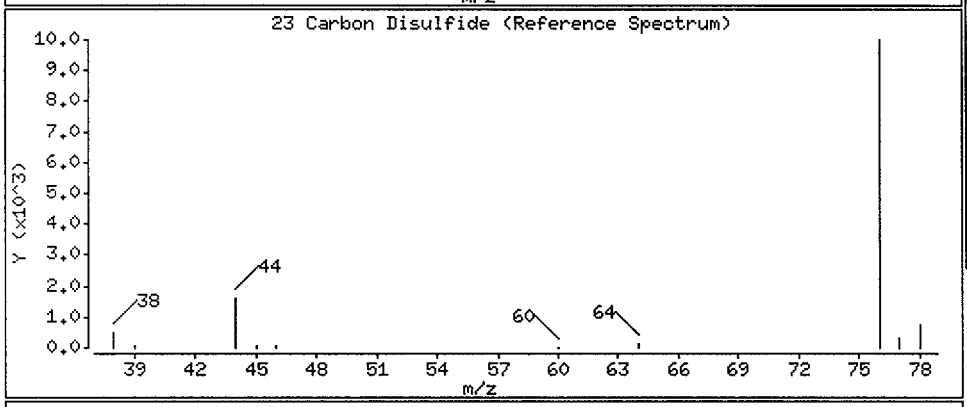
Concentration: 0.014405 ug

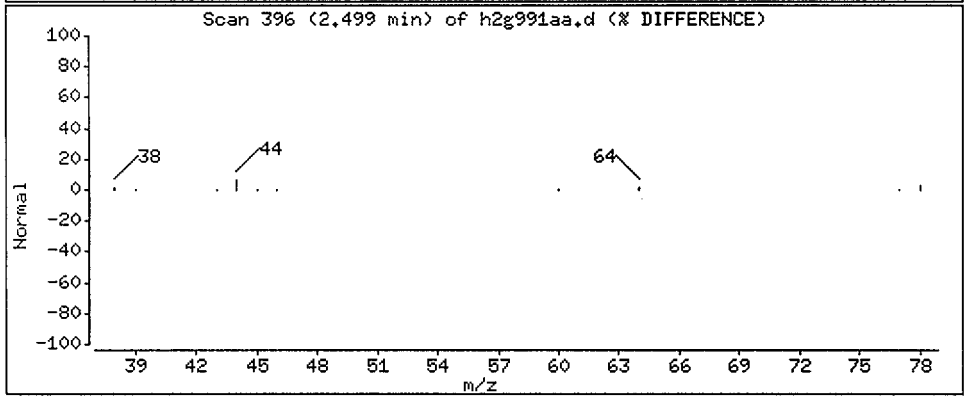












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

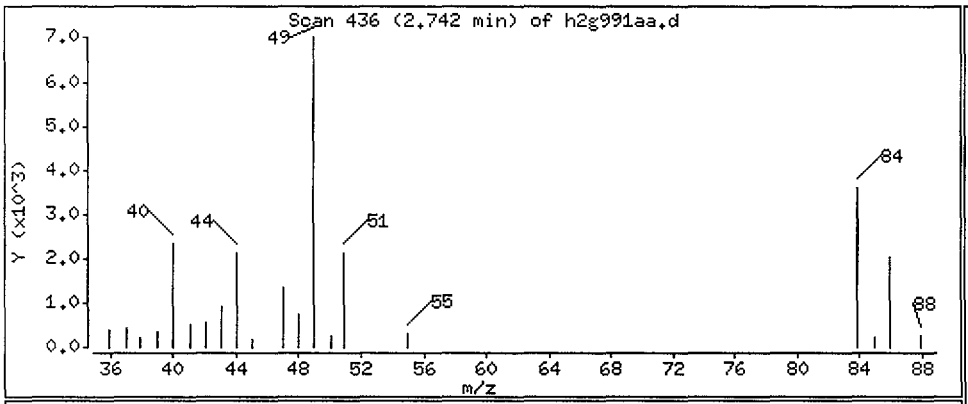
Operator: 22980

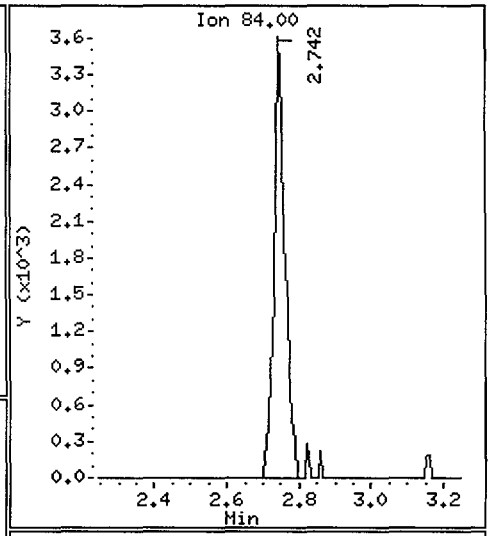
Column phase: J+W 624

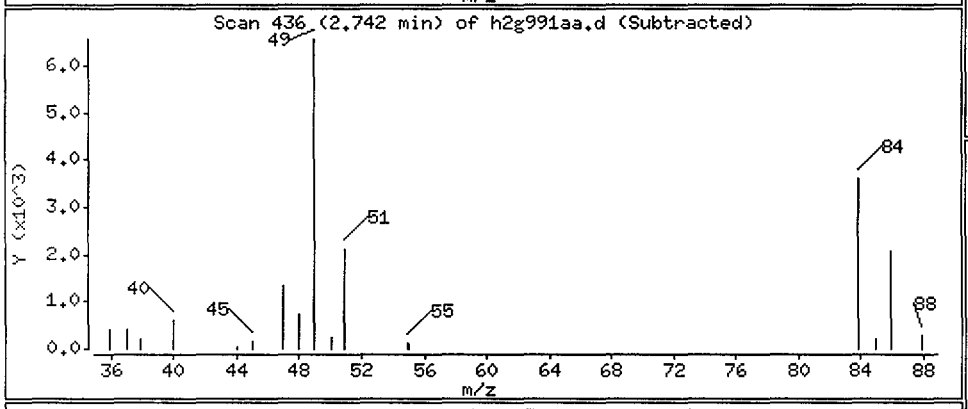
Column diameter: 0.18

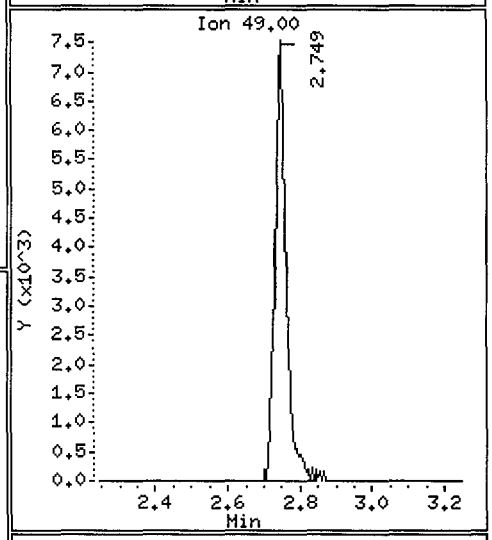
26 Methylene Chloride

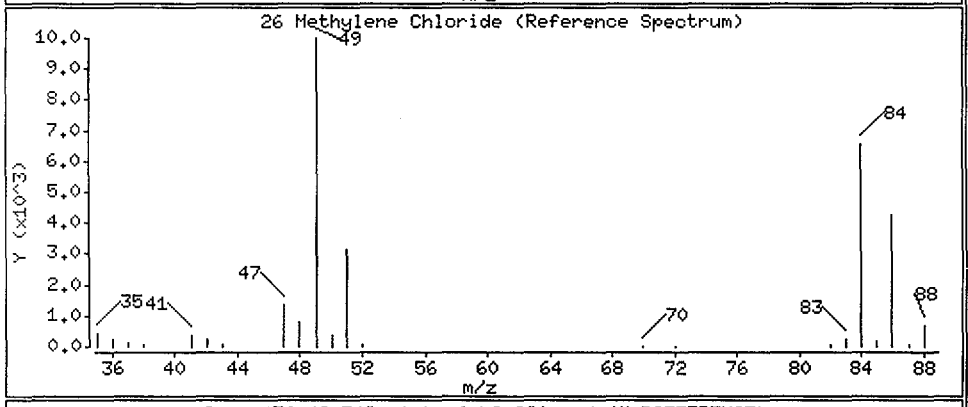
Concentration: 0.010717 ug

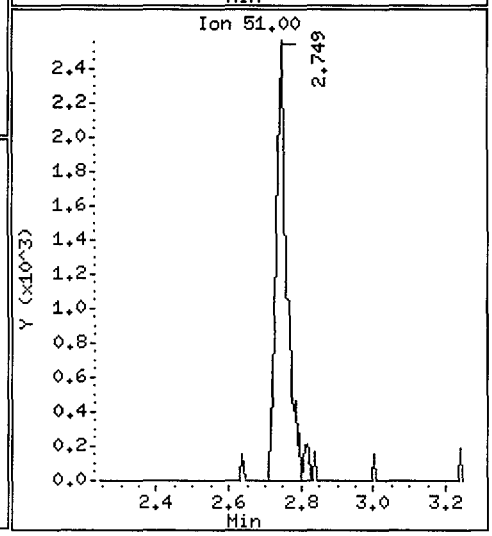


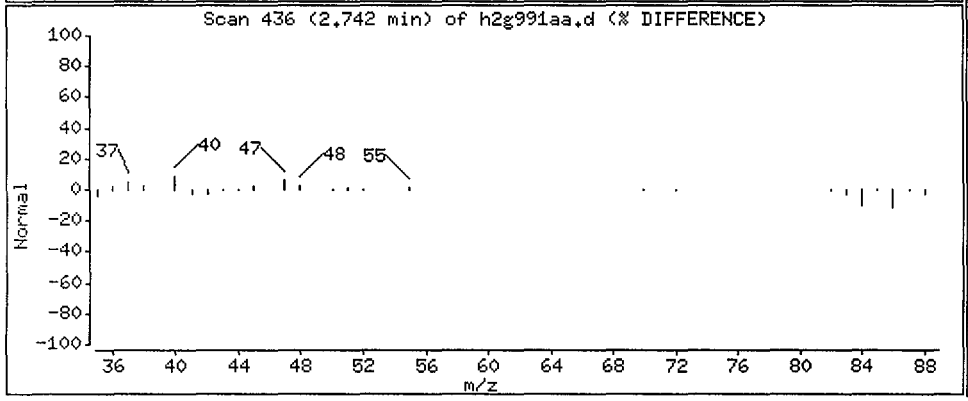












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

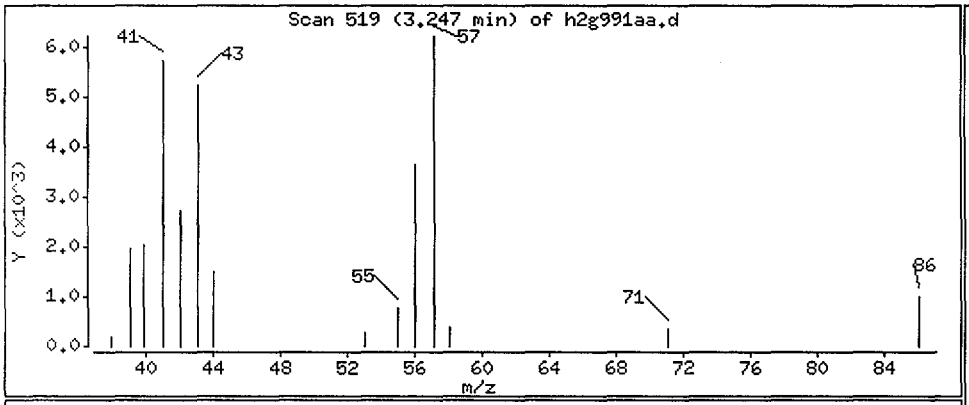
Operator: 22980

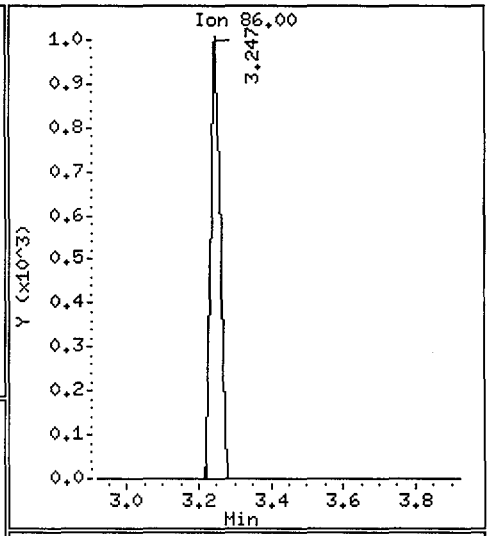
Column phase: J+W 624

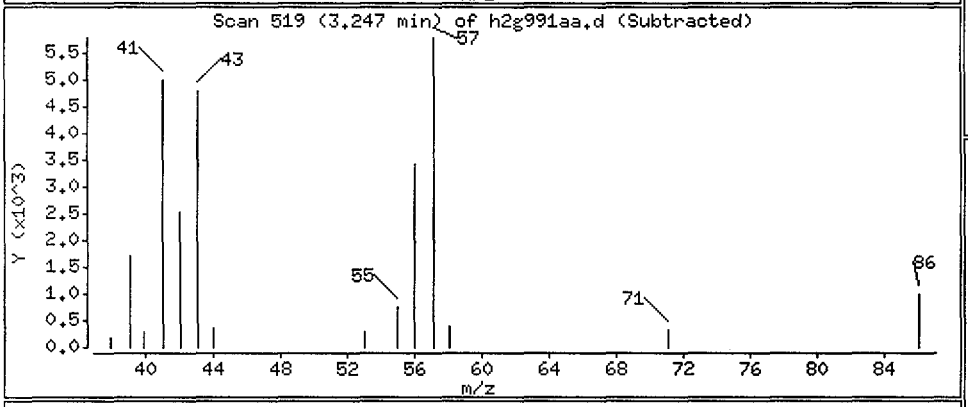
Column diameter: 0.18

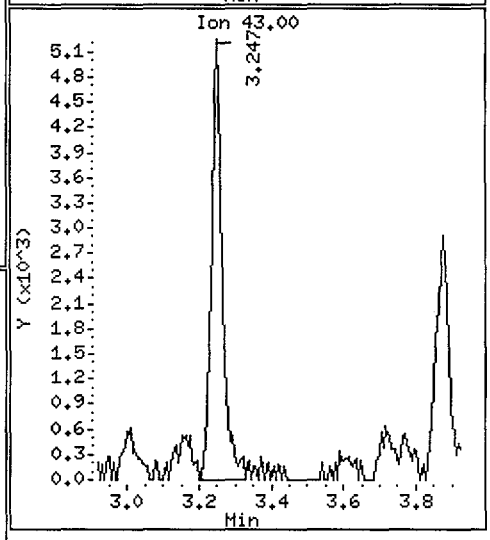
33 *Vinyl Acetate

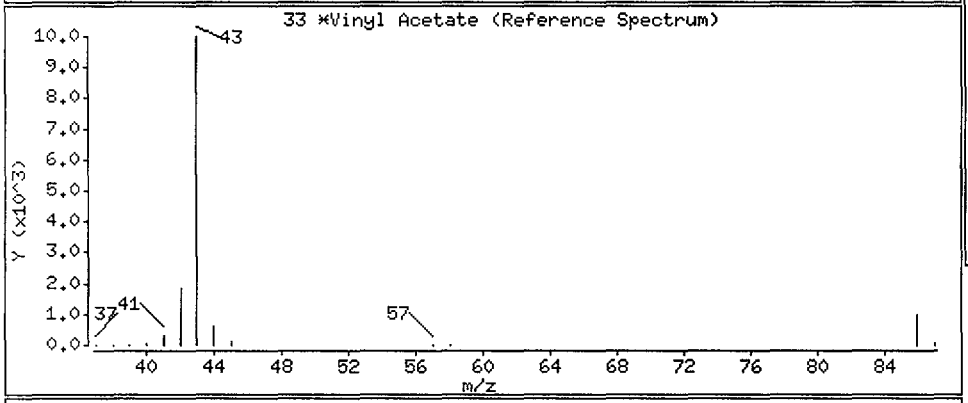
Concentration: 0.035552 ug

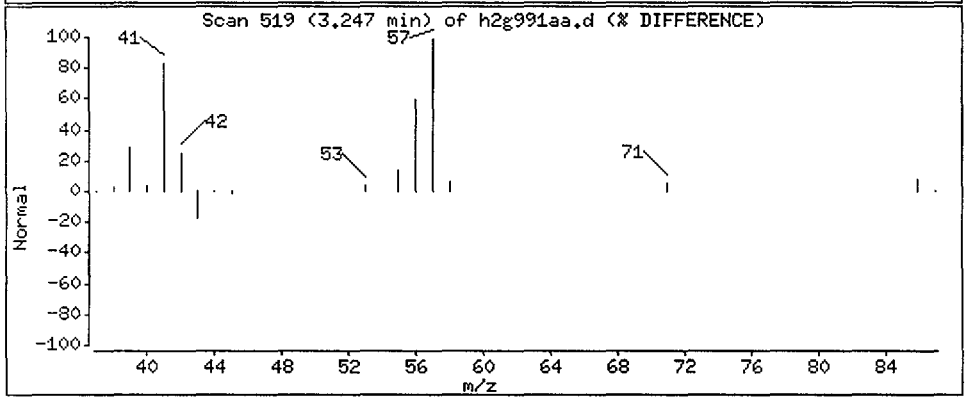












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

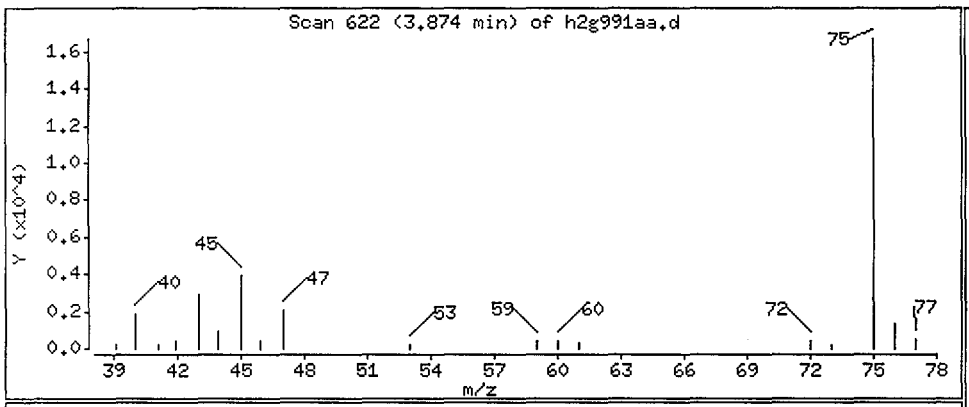
Operator: 22980

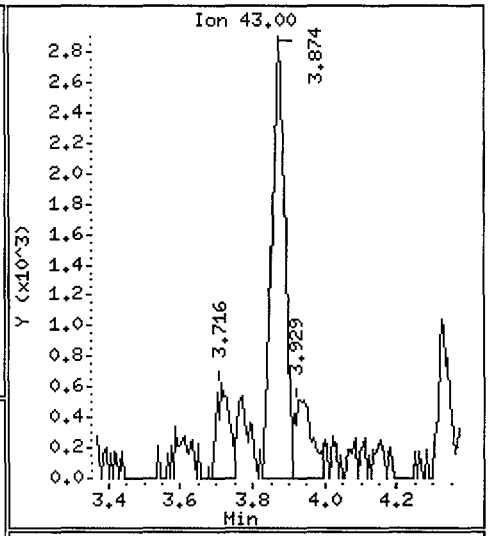
Column phase: J+W 624

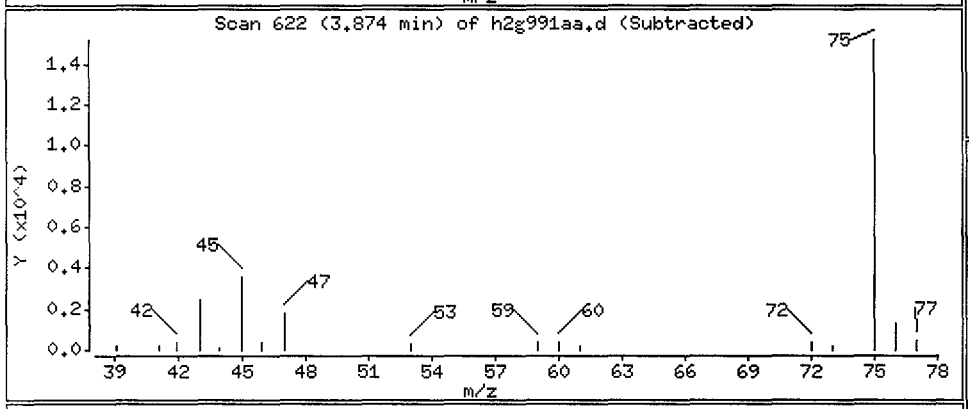
Column diameter: 0.18

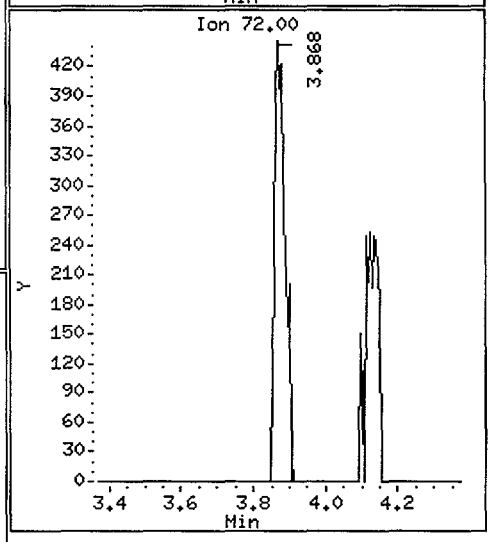
36 2-Butanone

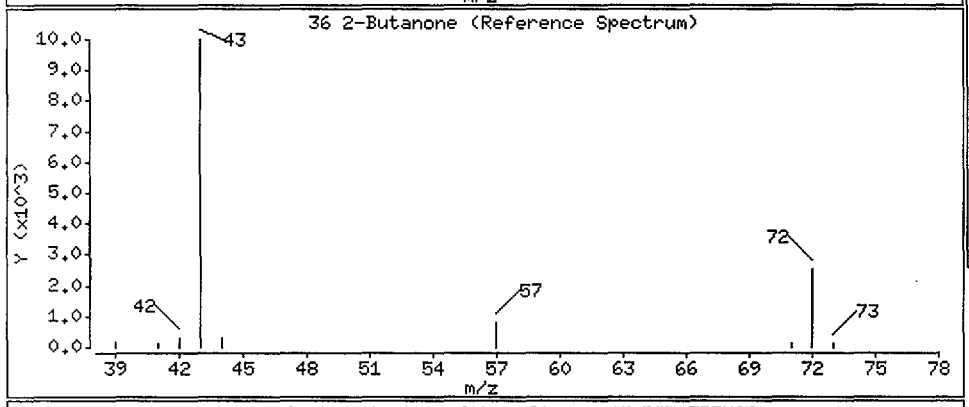
Concentration: 0.069847 ug

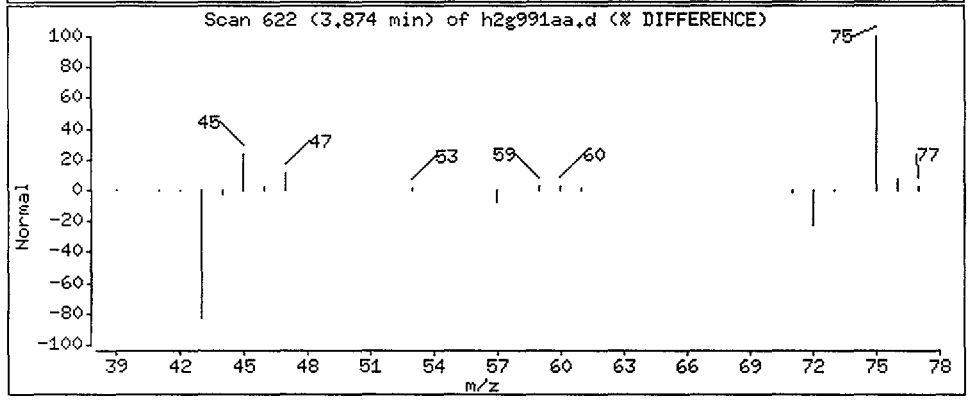












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

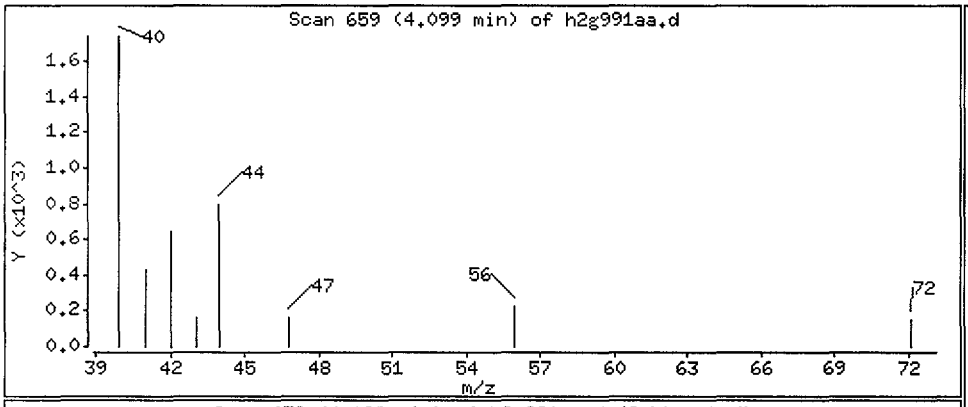
Operator: 22980

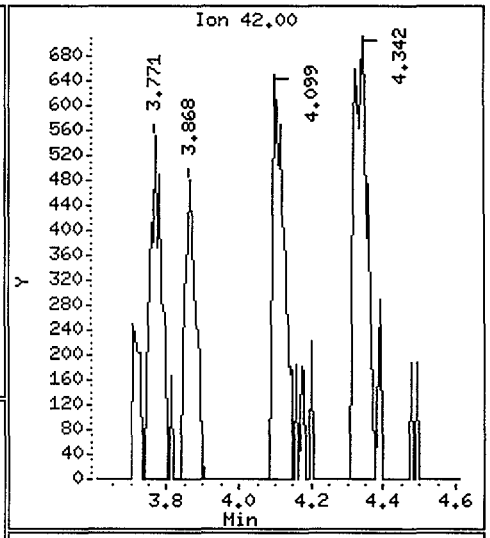
Column phase: J+W 624

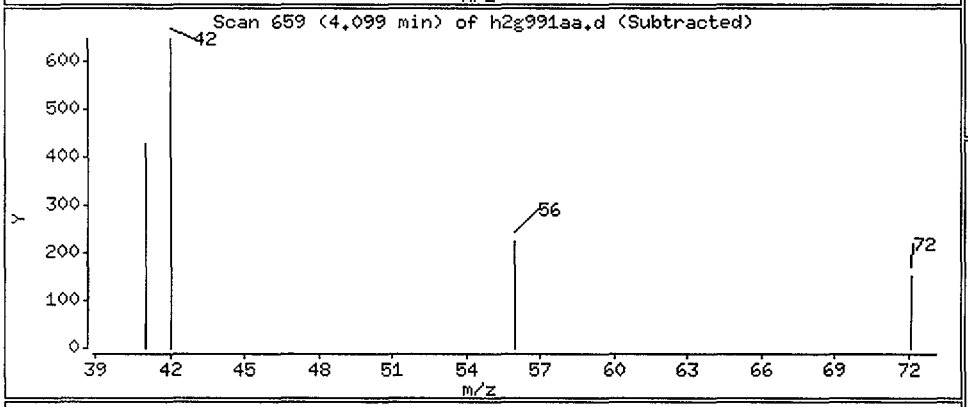
Column diameter: 0.18

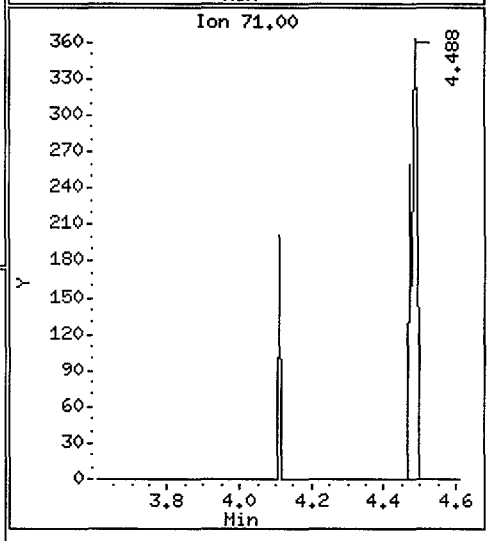
38 *THF

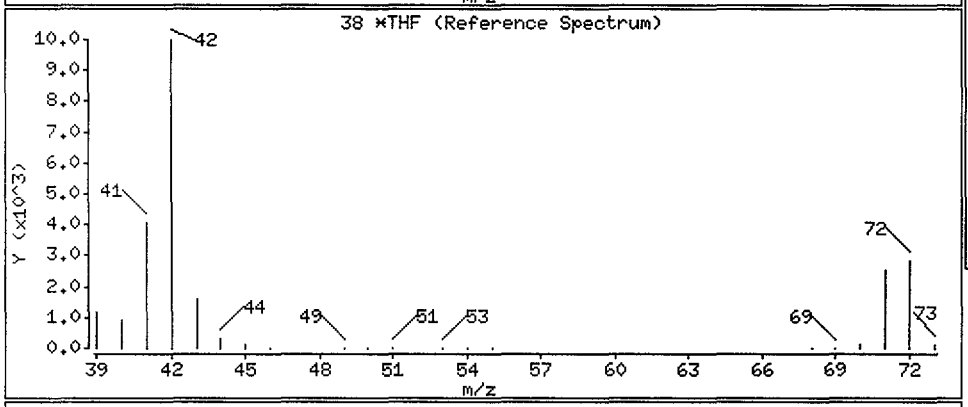
Concentration: 0.023103 ug

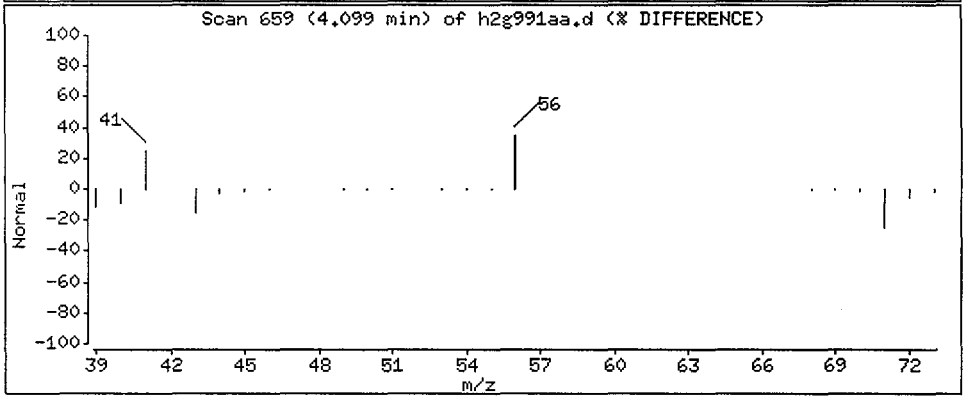












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

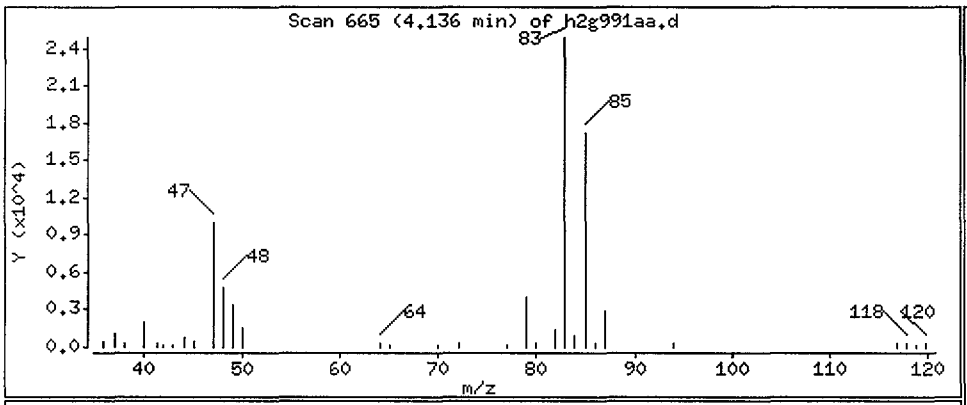
Operator: 22980

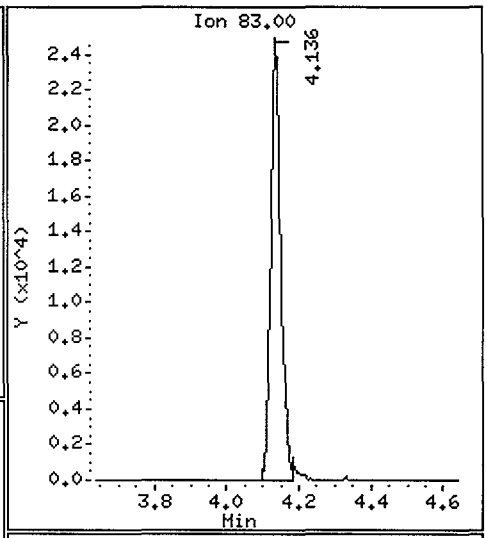
Column phase: J+W 624

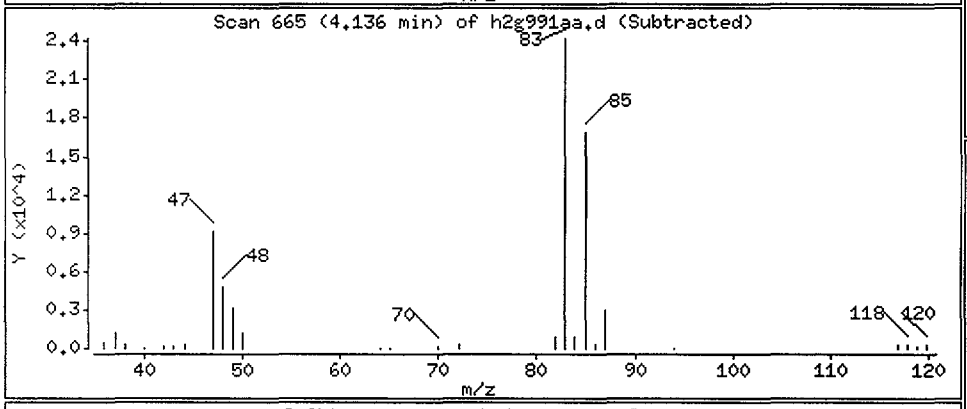
Column diameter: 0.18

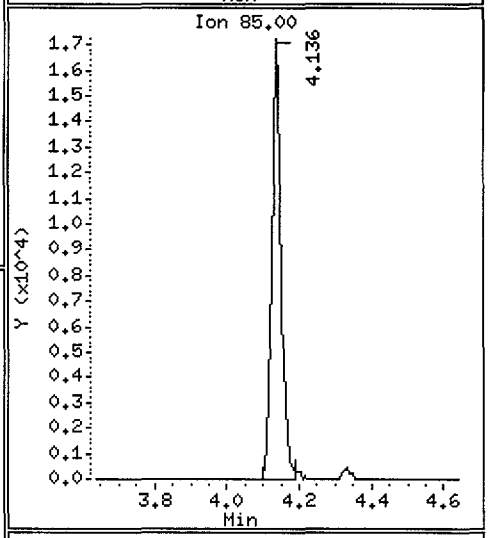
39 Chloroform (ccc)

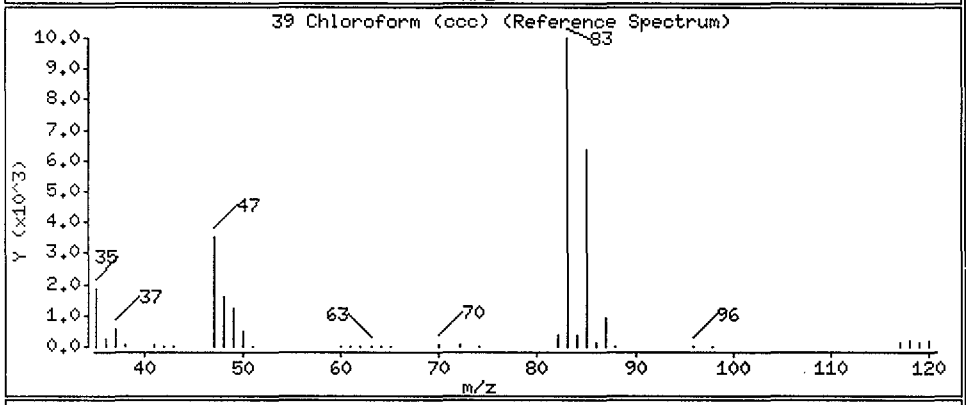
Concentration: 0.027149 ug

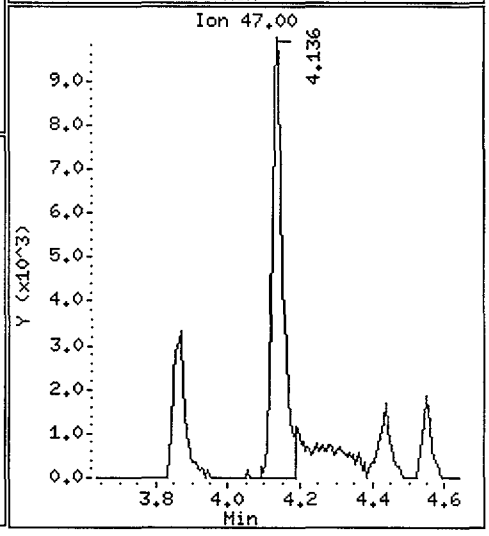


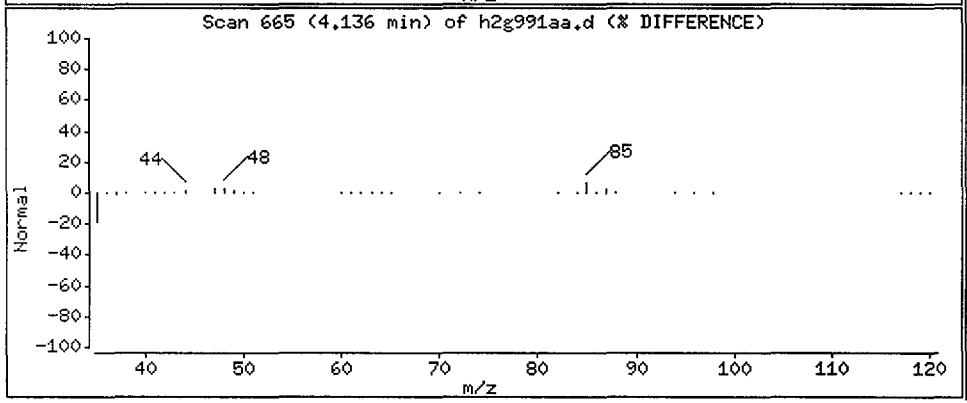












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

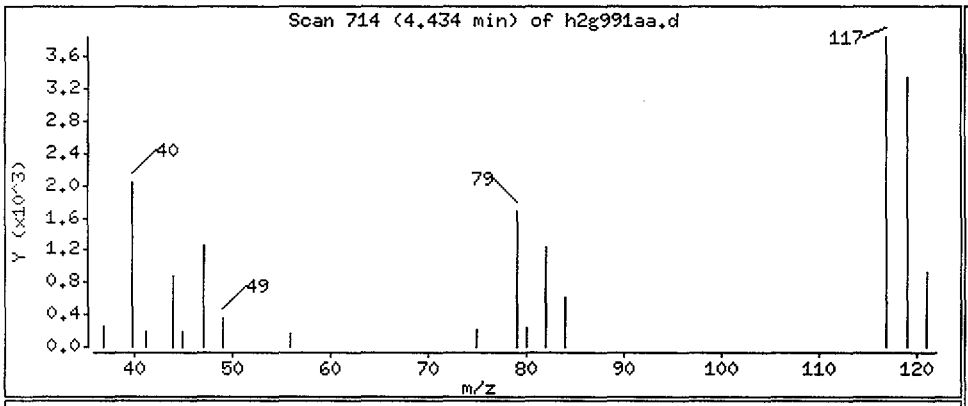
Operator: 22980

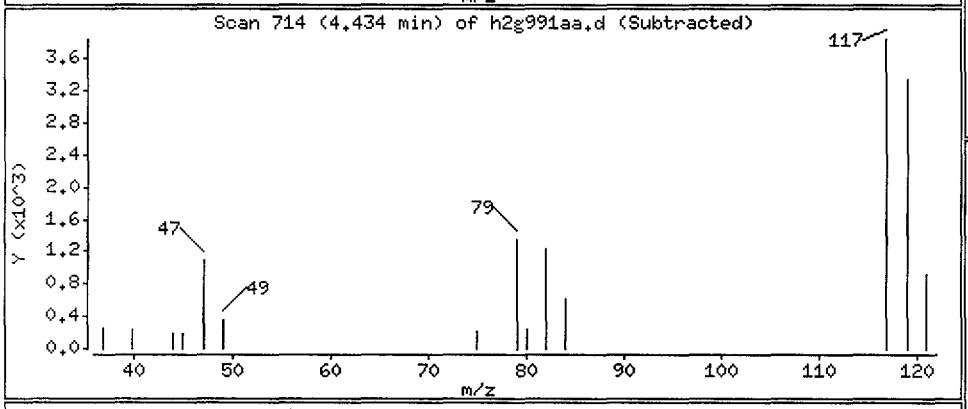
Column phase: J+W 624

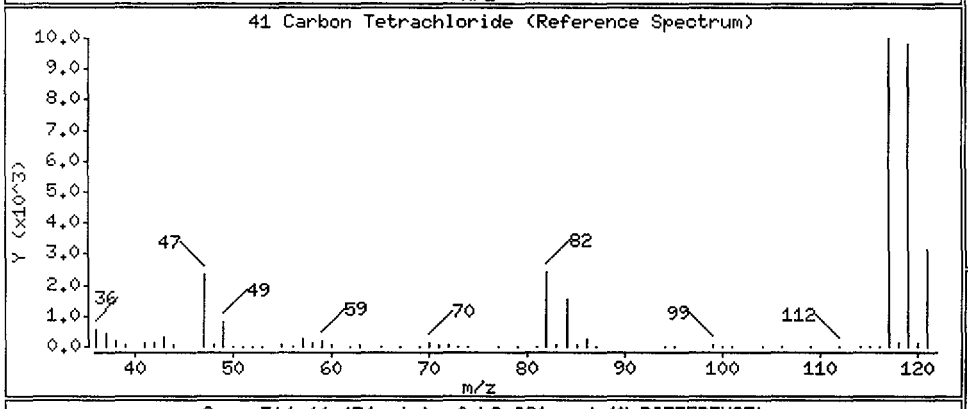
Column diameter: 0.18

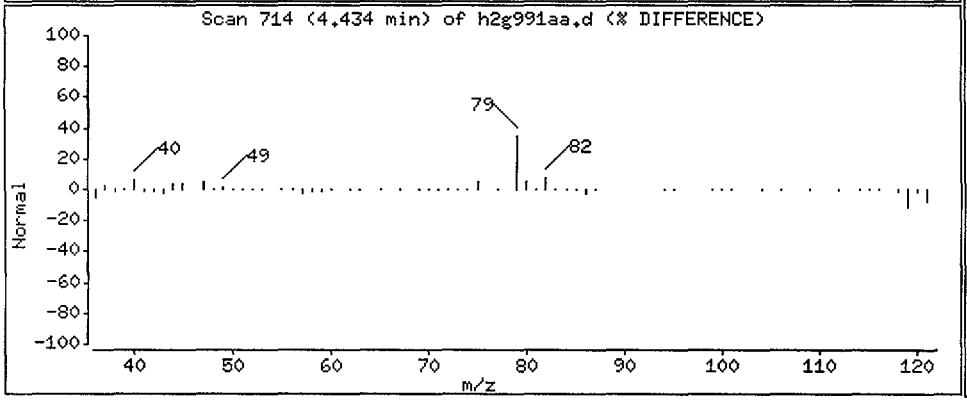
41 Carbon Tetrachloride

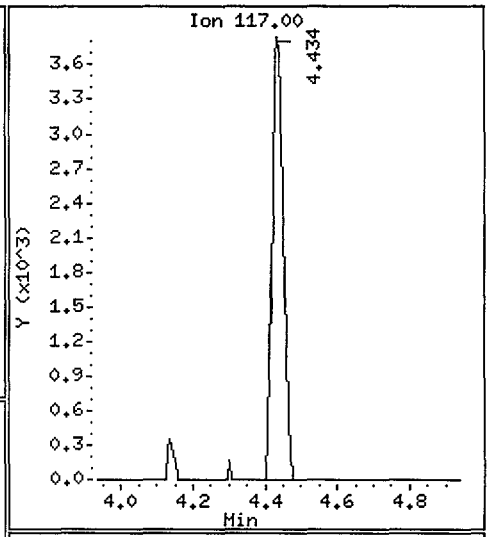
Concentration: 0.0049154 ug

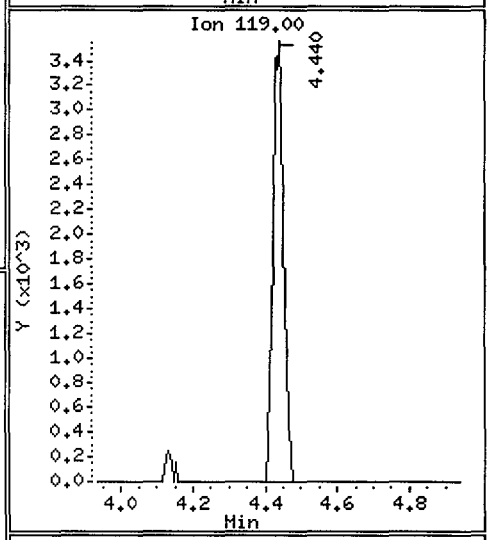


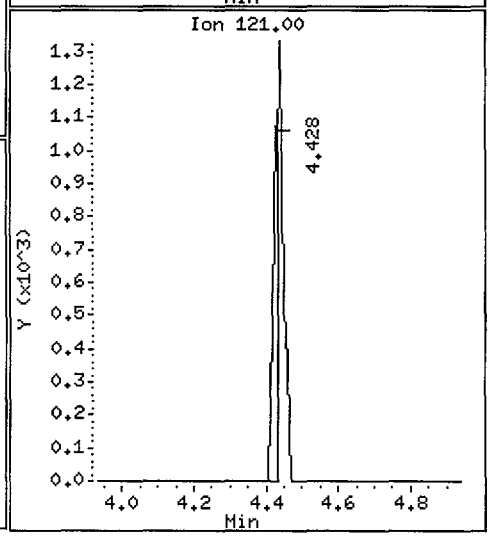












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

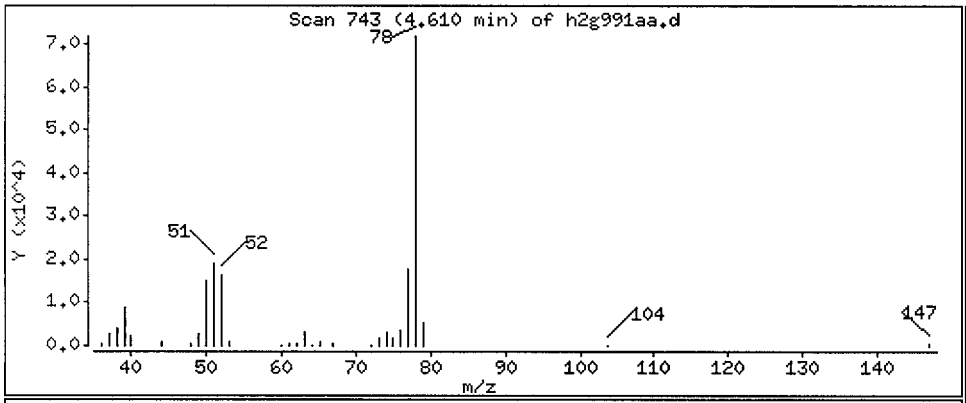
Operator: 22980

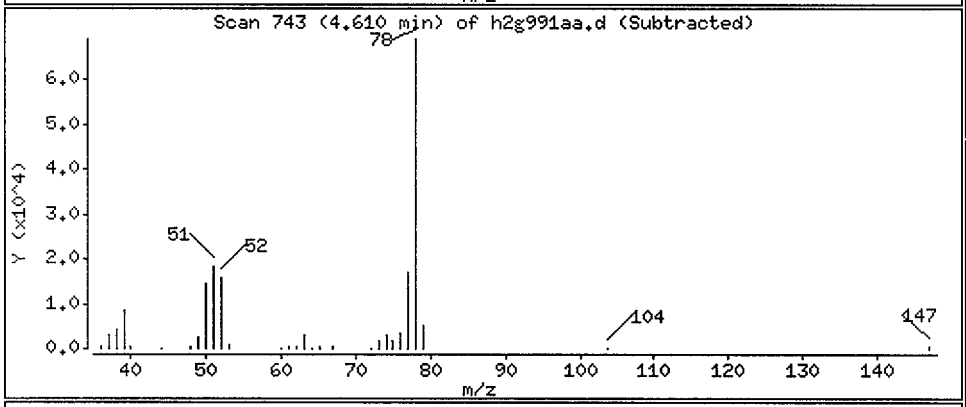
Column phase: J+W 624

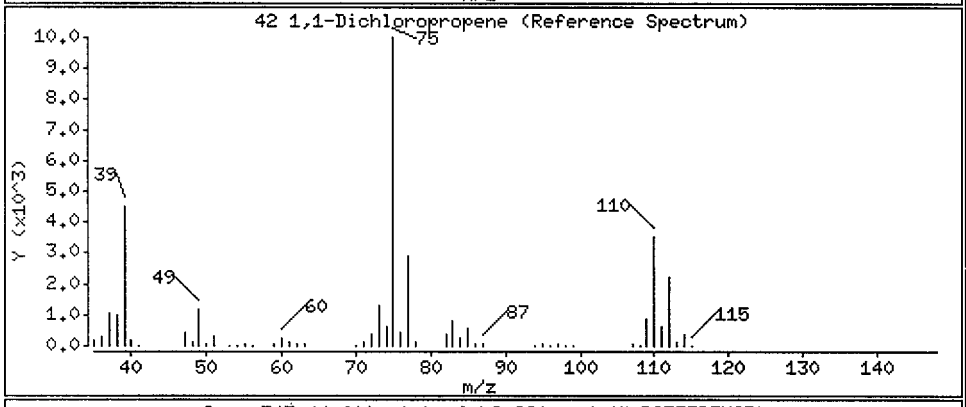
Column diameter: 0.18

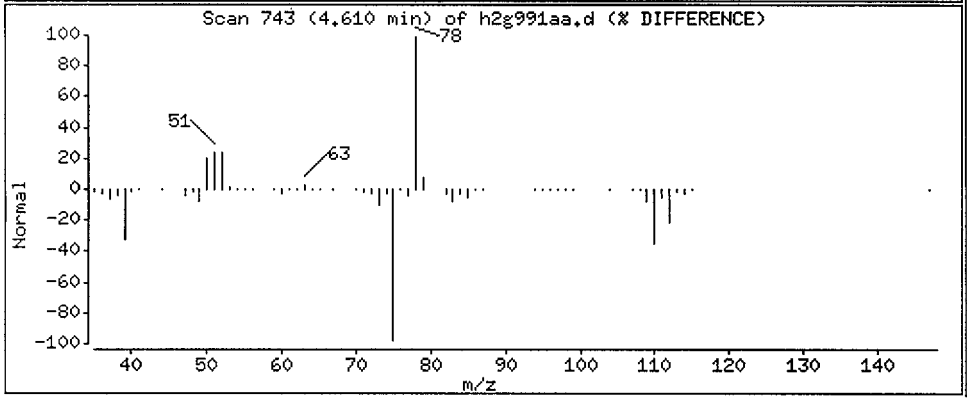
42 1,1-Dichloropropene

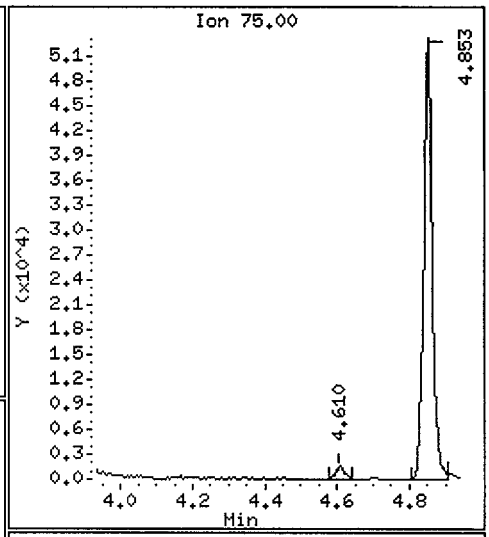
Concentration: 0.0014757 ug

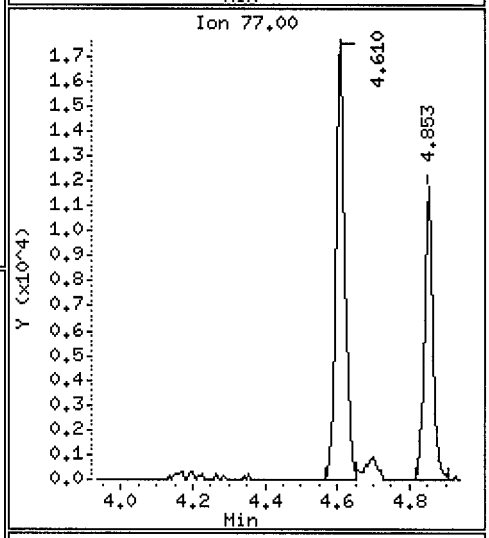


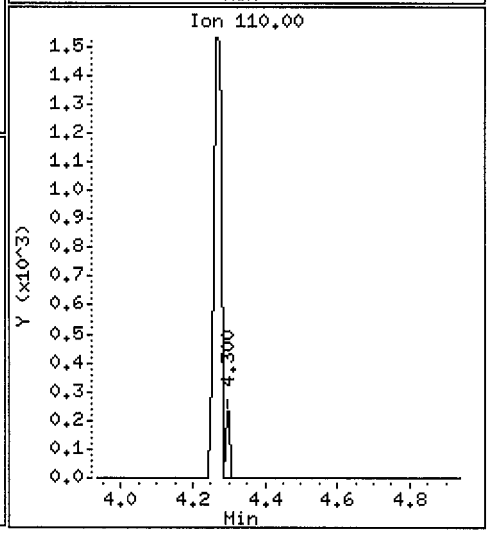












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

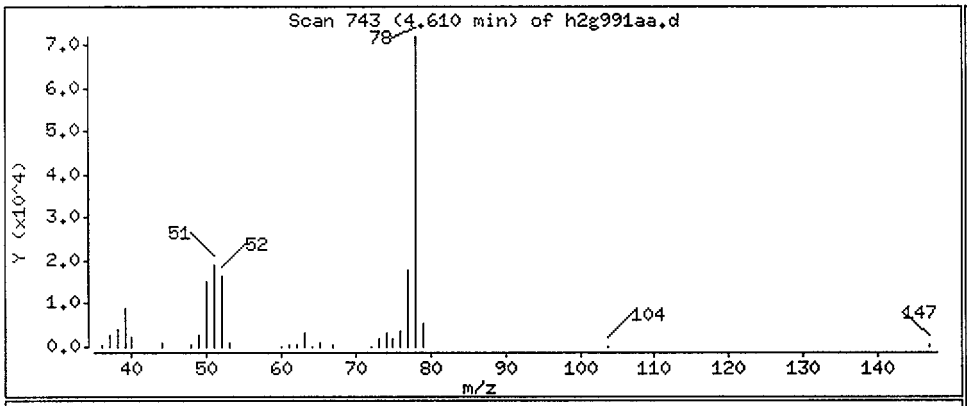
Operator: 22980

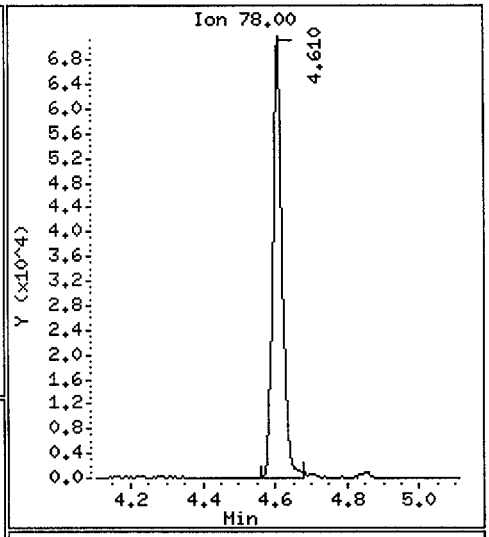
Column phase: J+W 624

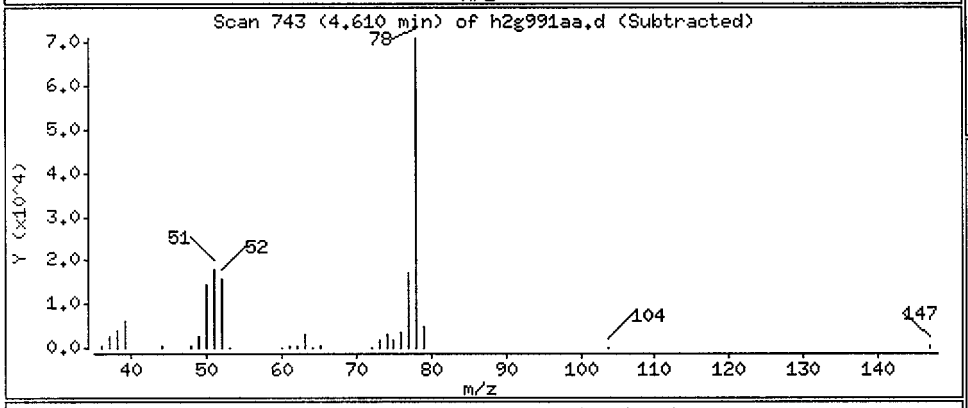
Column diameter: 0.18

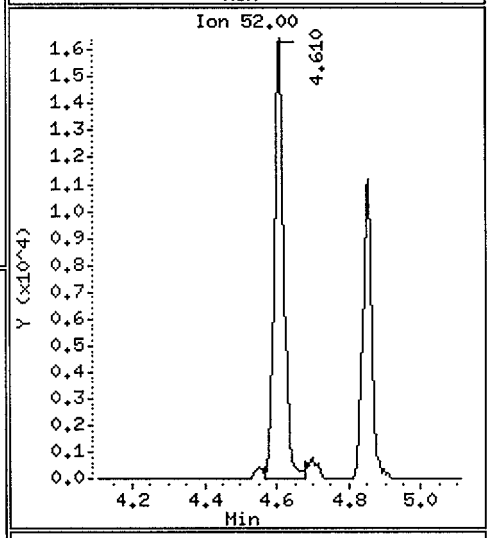
43 Benzene

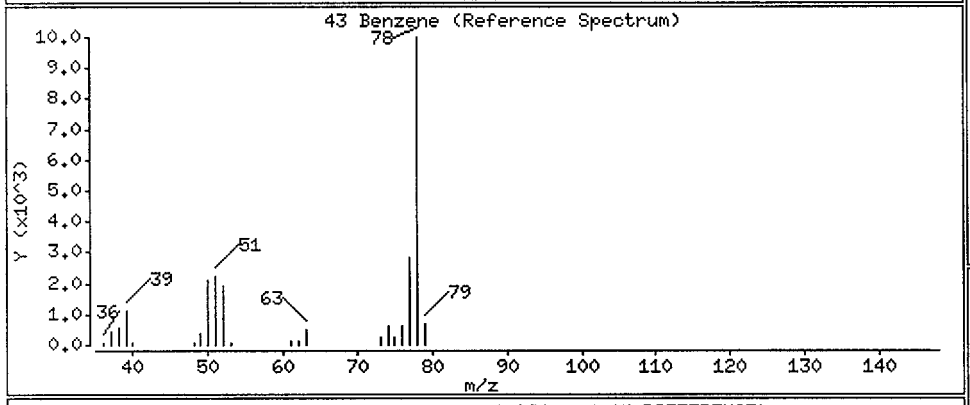
Concentration: 0.027772 ug

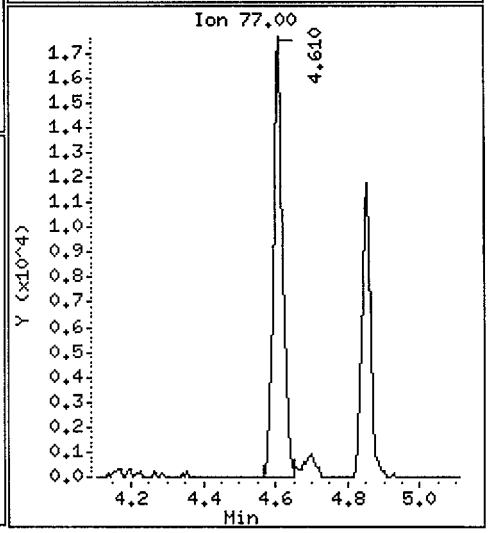


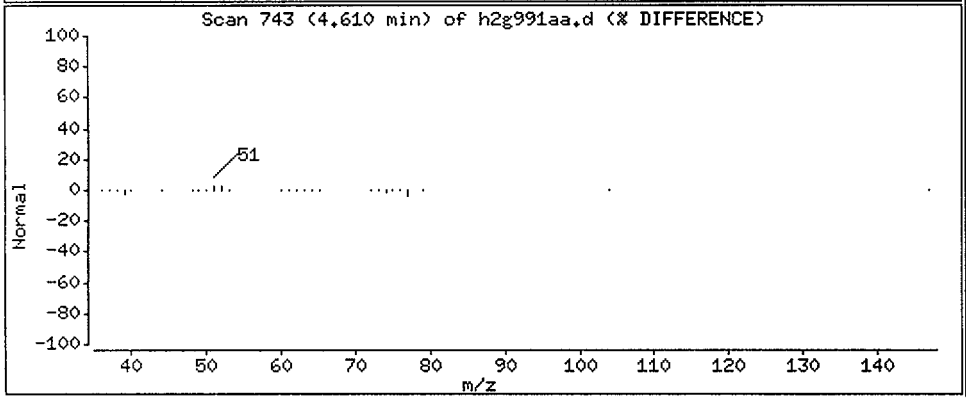












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

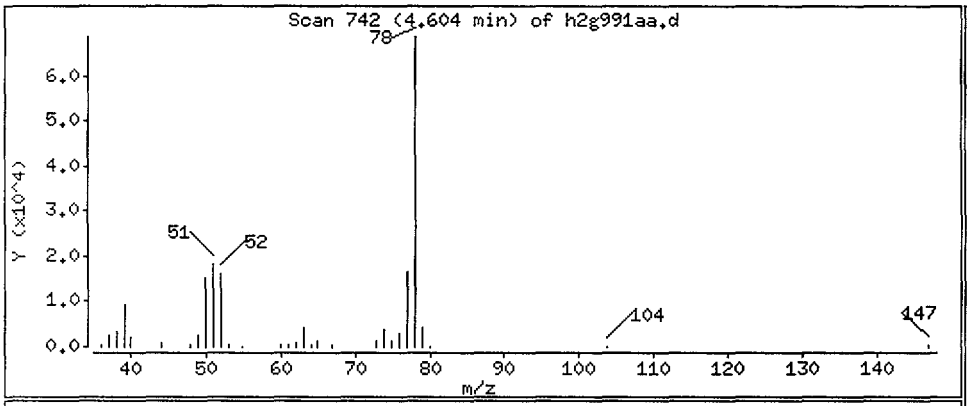
Operator: 22980

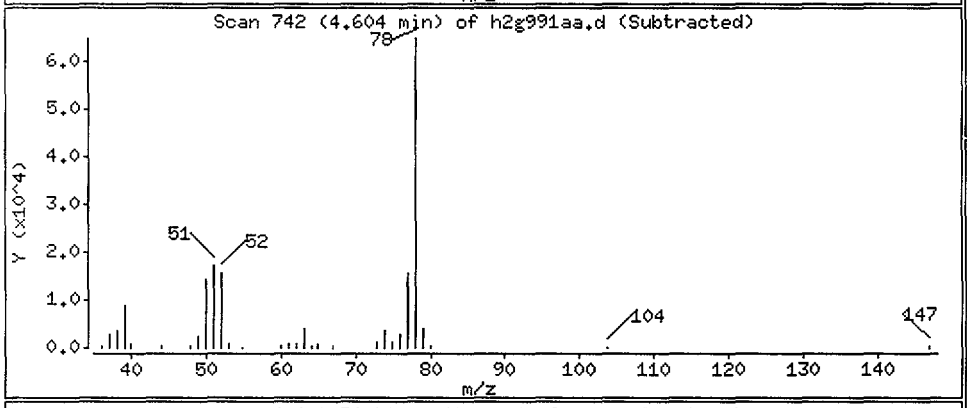
Column phase: J+W 624

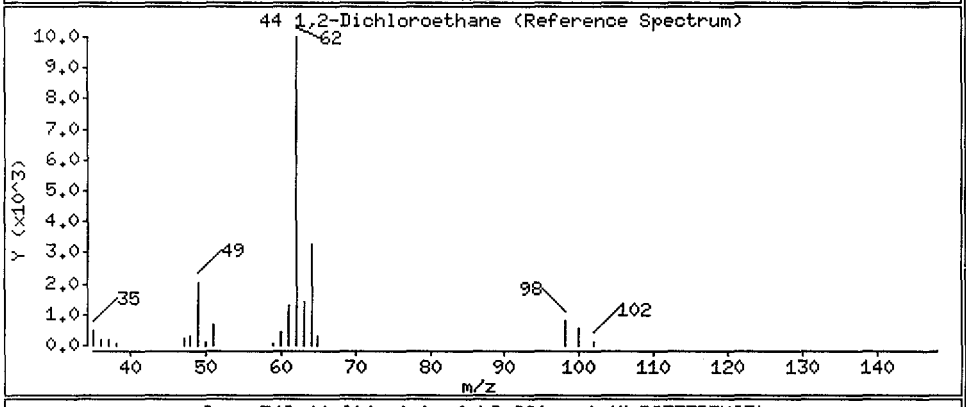
Column diameter: 0.18

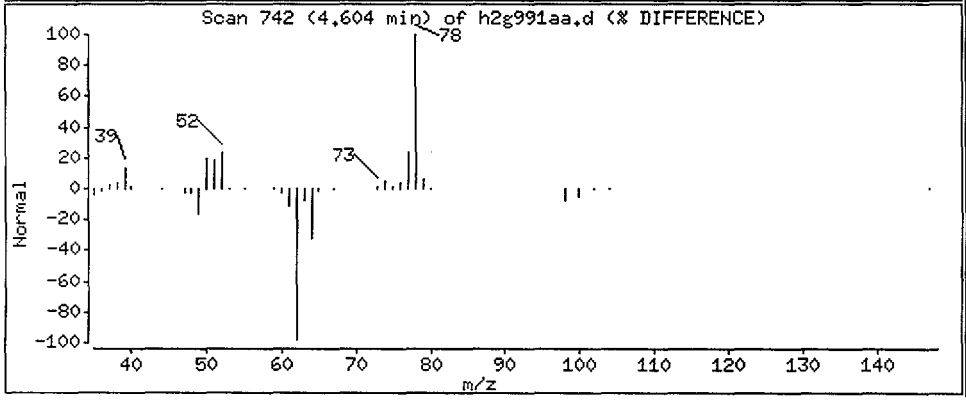
44 1,2-Dichloroethane

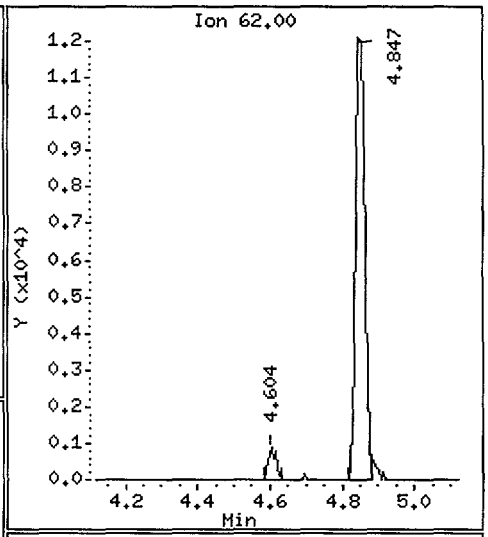
Concentration: 0.0016000 ug

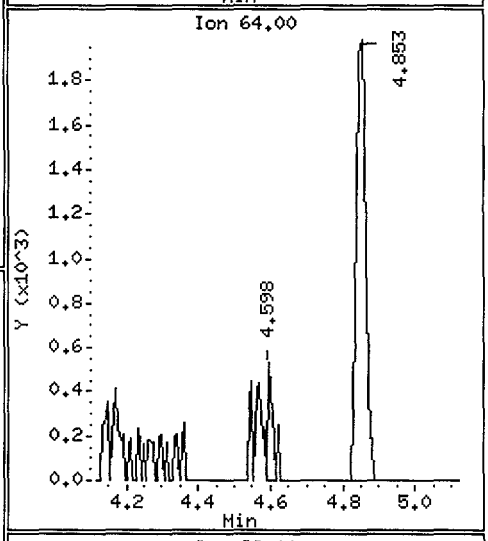


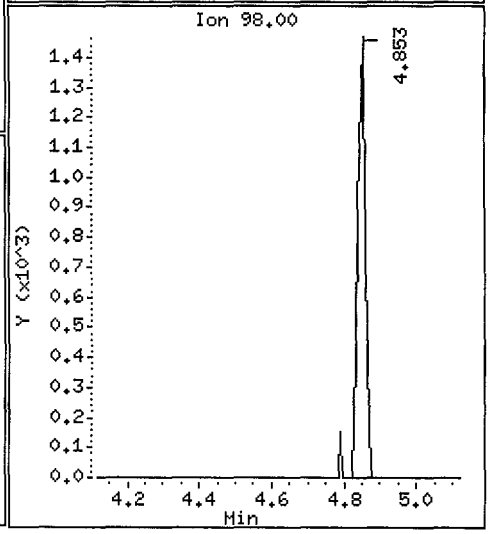












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

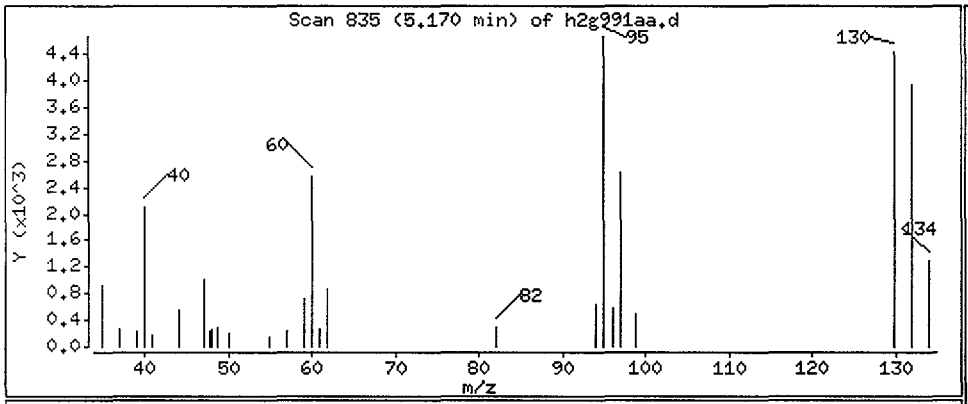
Operator: 22980

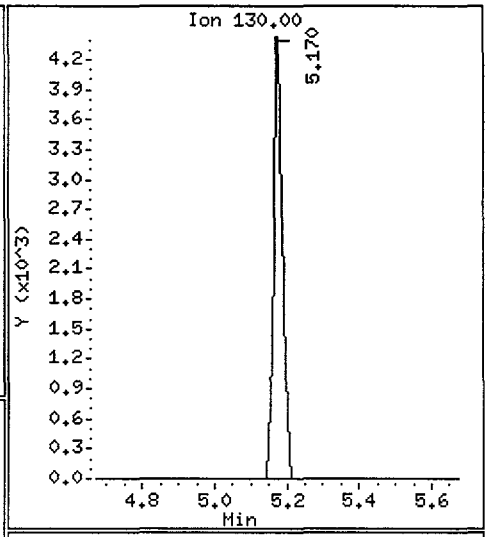
Column phase: J+W 624

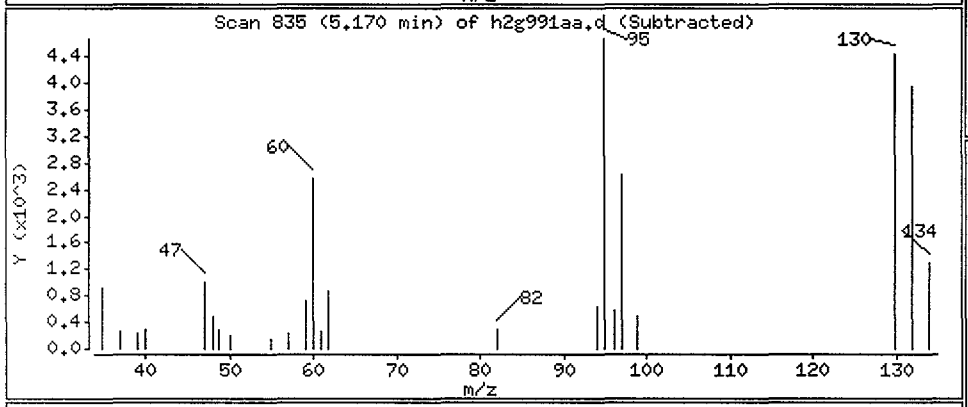
Column diameter: 0.18

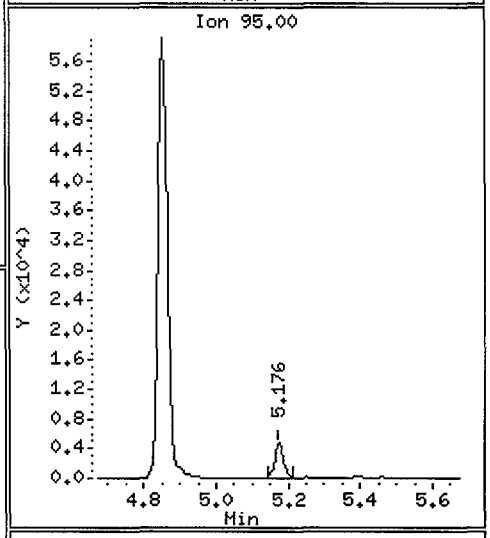
45 Trichloroethene

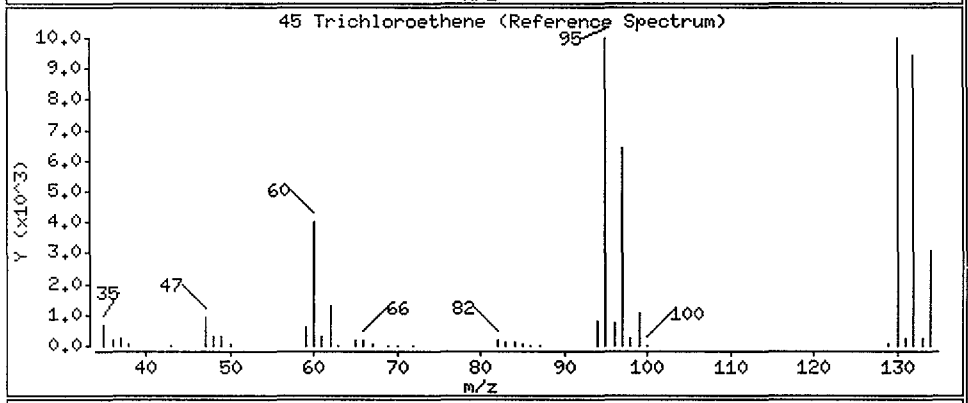
Concentration: 0.0060656 ug

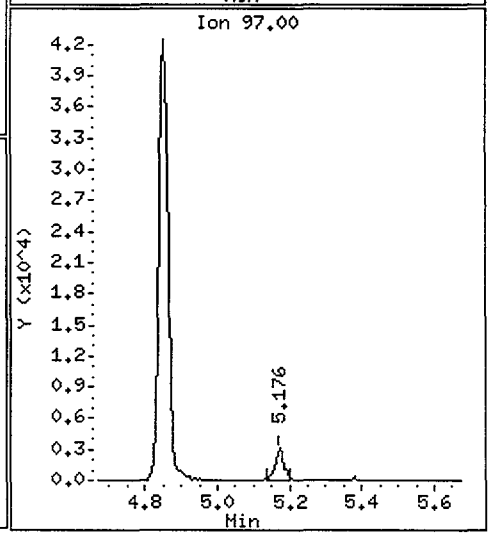


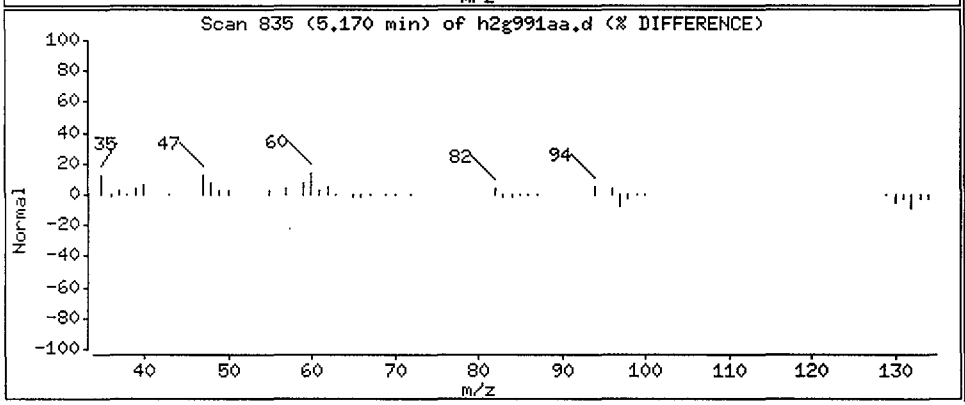












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

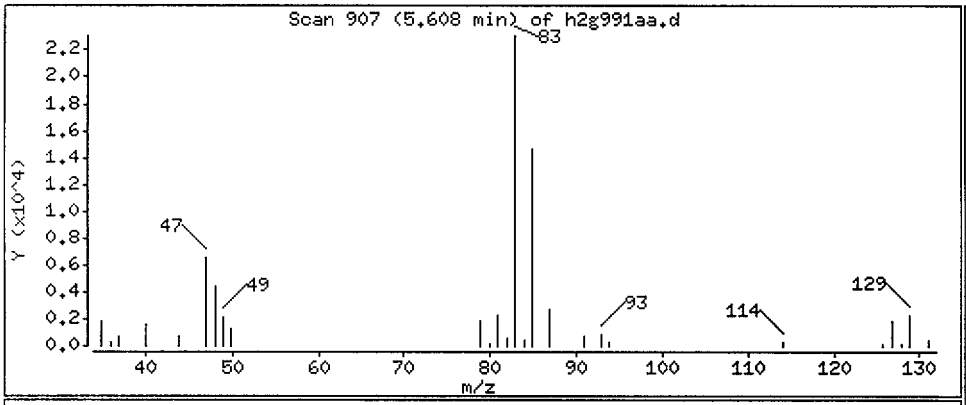
Operator: 22980

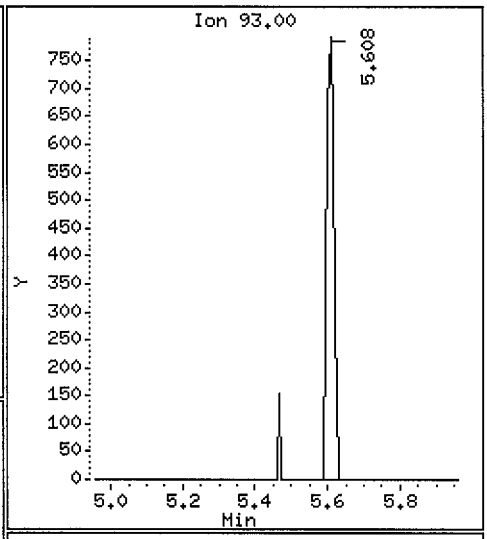
Column phase: J+W 624

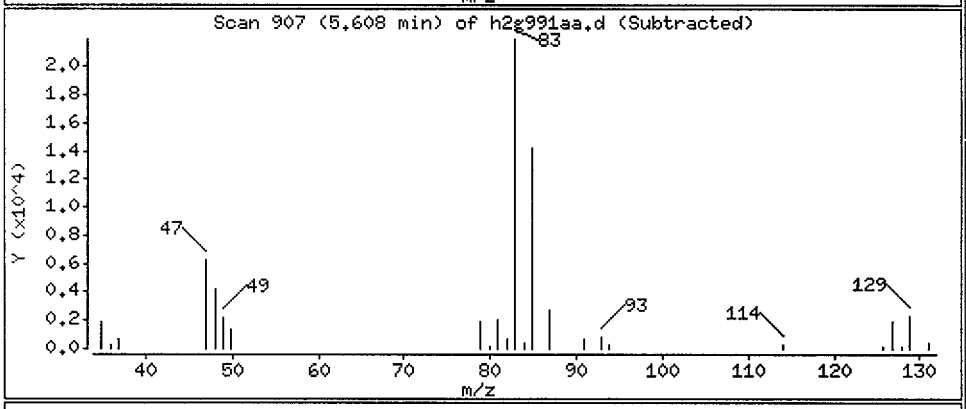
Column diameter: 0.18

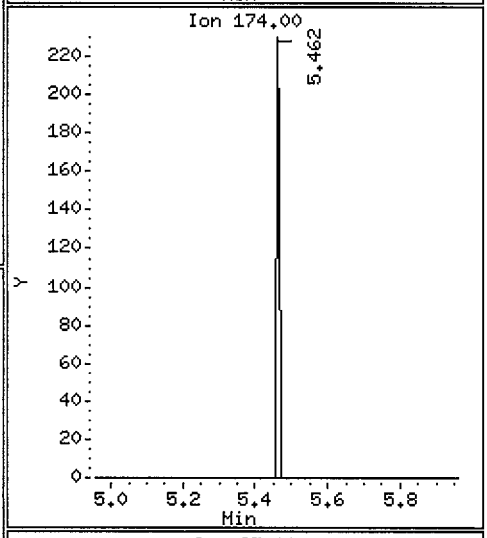
48 Dibromomethane

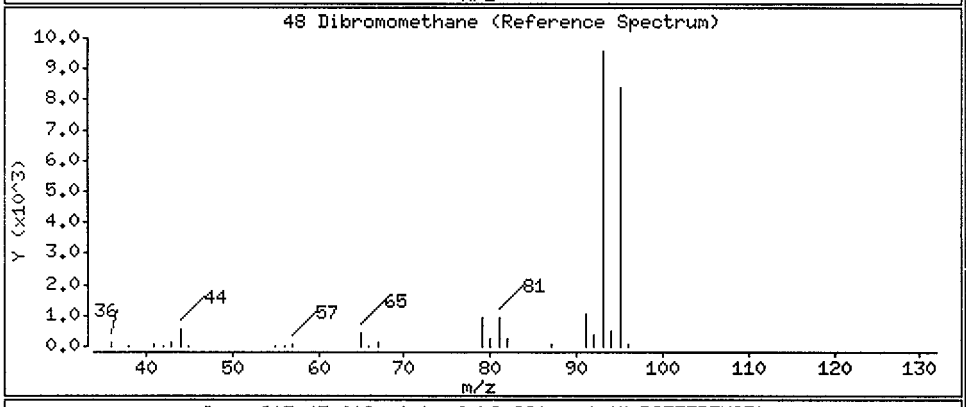
Concentration: 0.0039102 ug

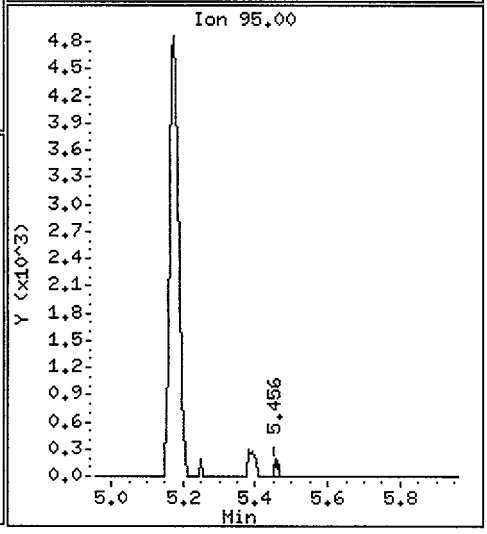


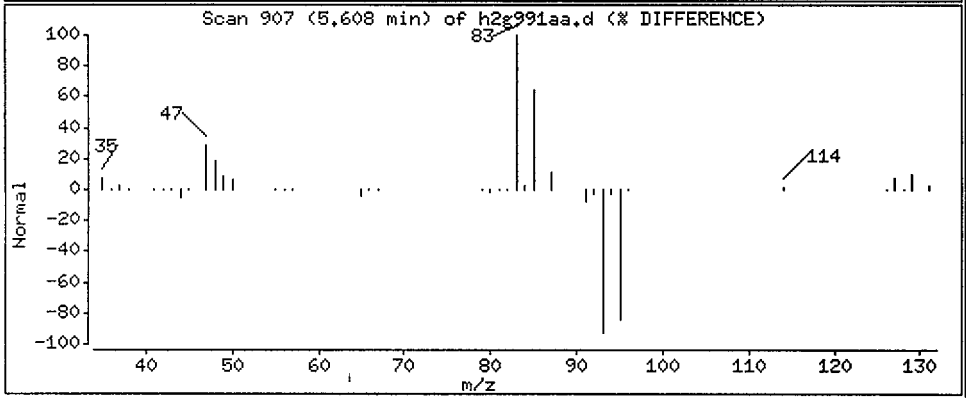












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

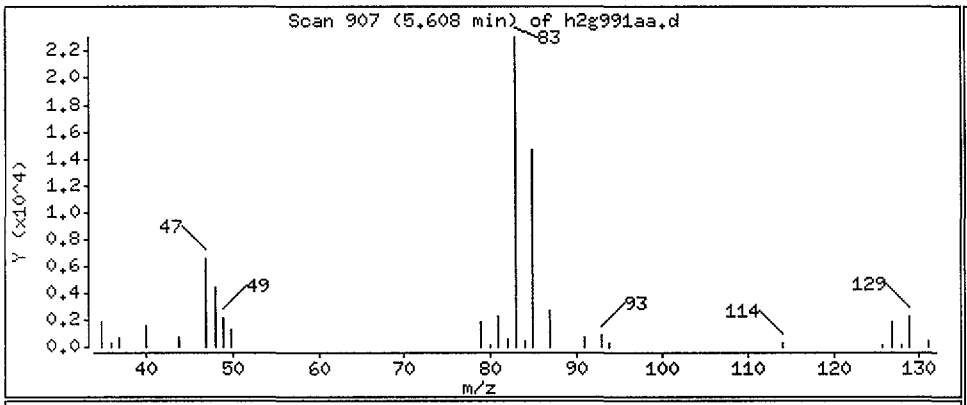
Operator: 22980

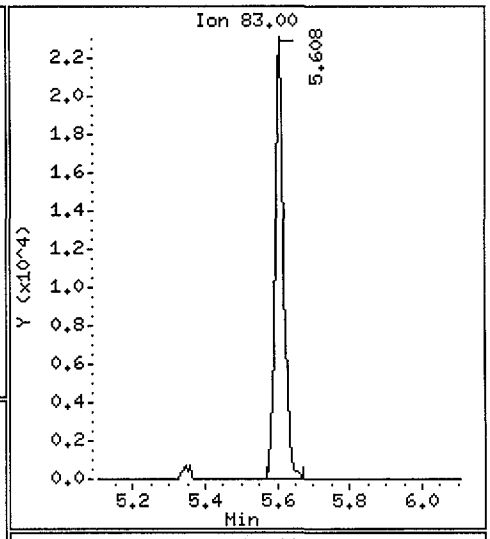
Column phase: J+W 624

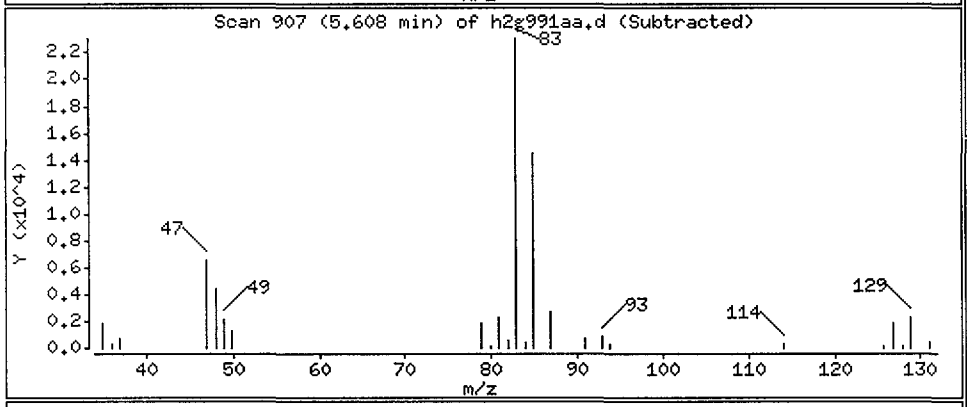
Column diameter: 0.18

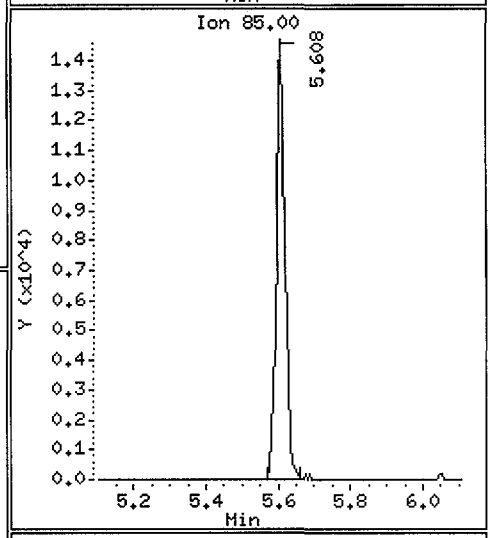
49 Bromodichloromethane

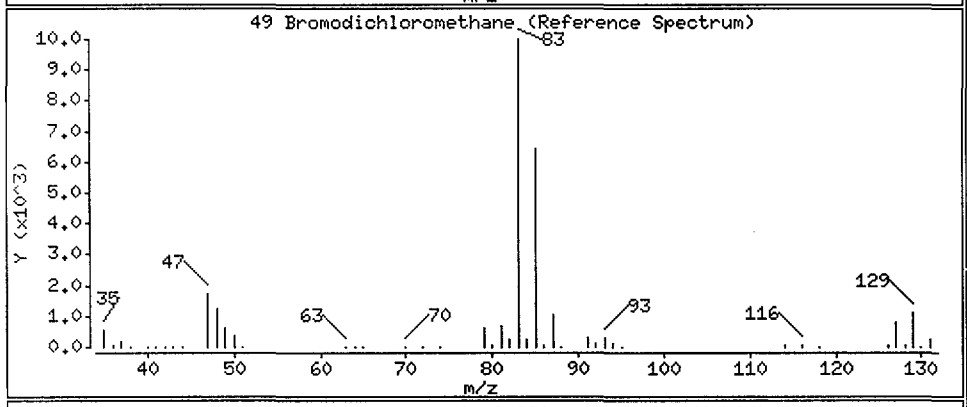
Concentration: 0.039484 ug

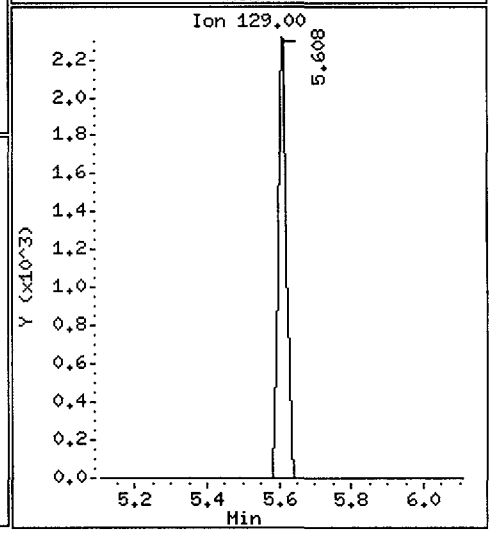


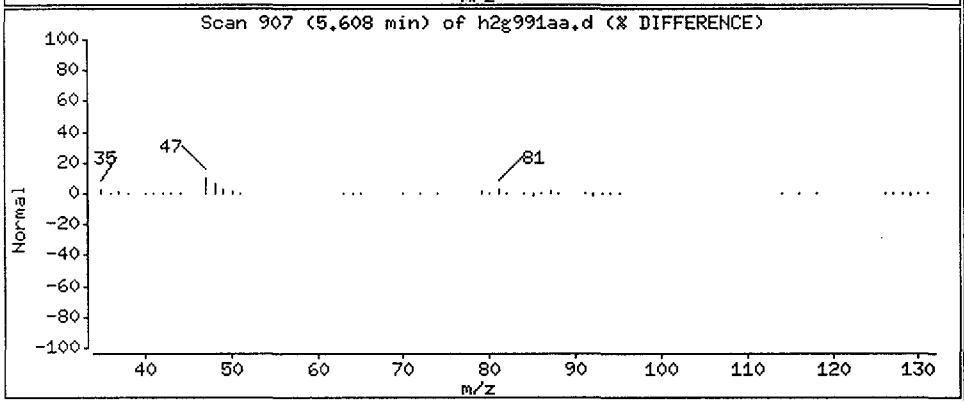












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

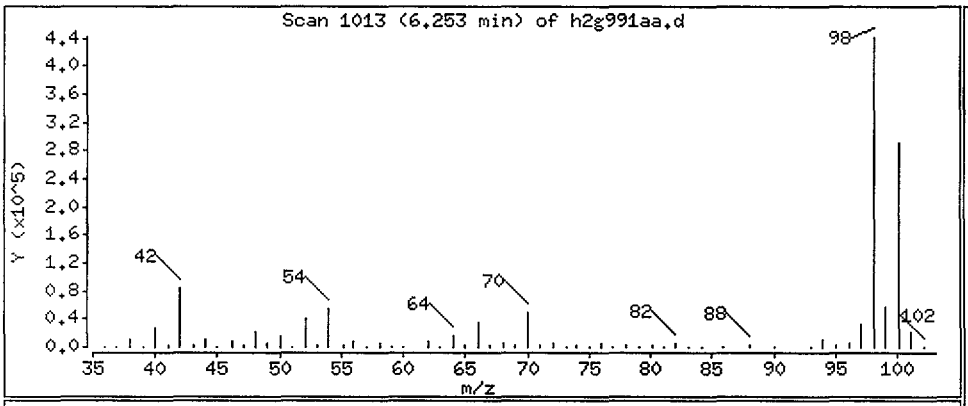
Operator: 22980

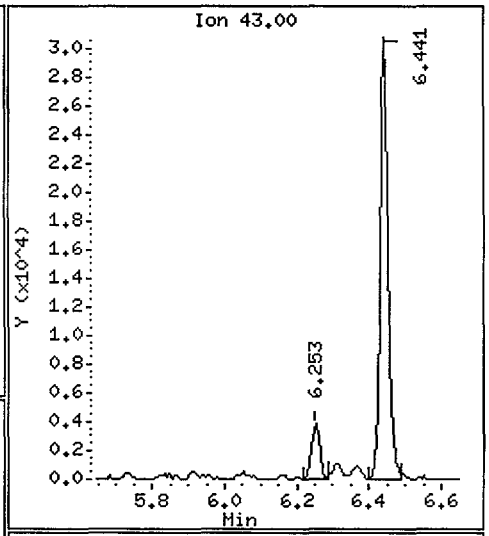
Column phase: J+W 624

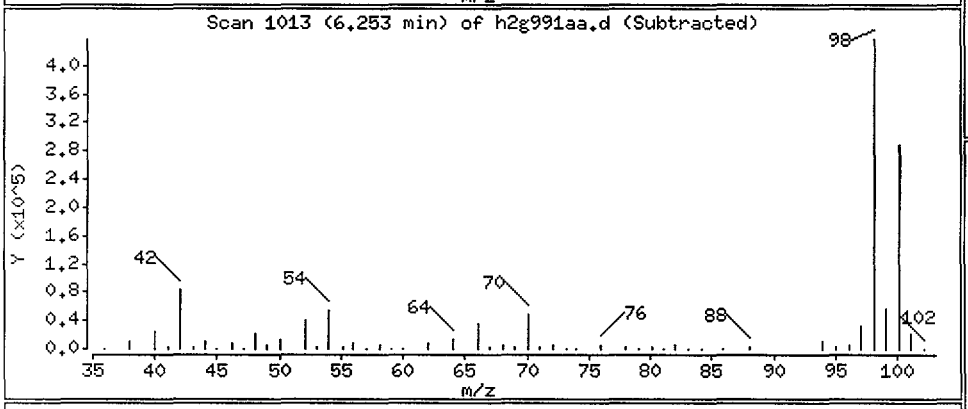
Column diameter: 0.18

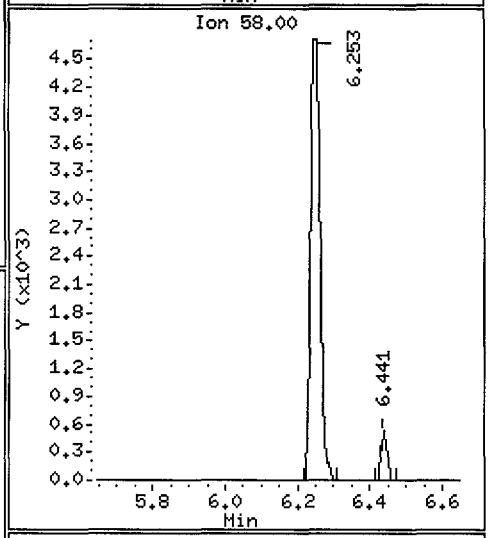
52 4-Methyl-2-pentanone

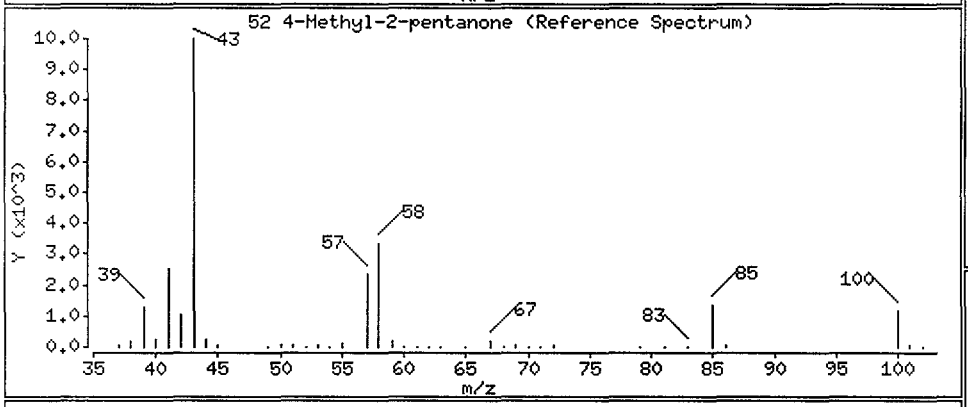
Concentration: 0.024470 ug

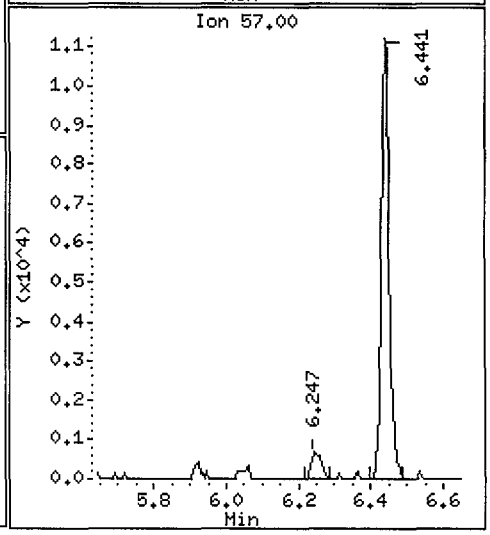


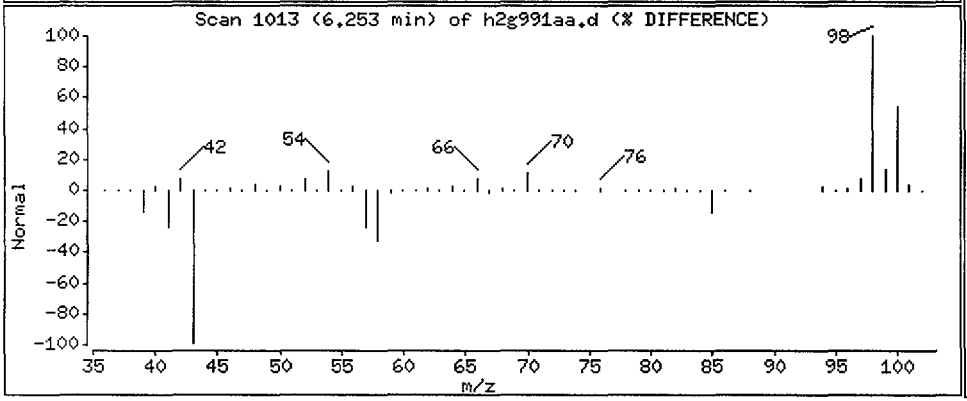












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

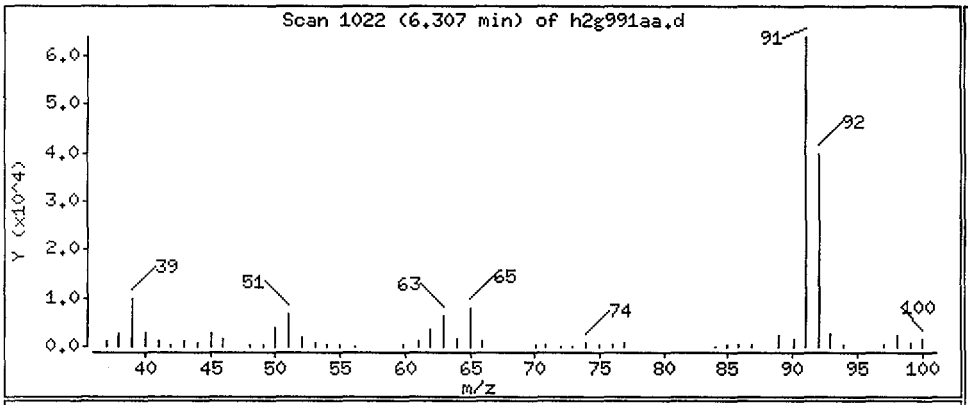
Operator: 22980

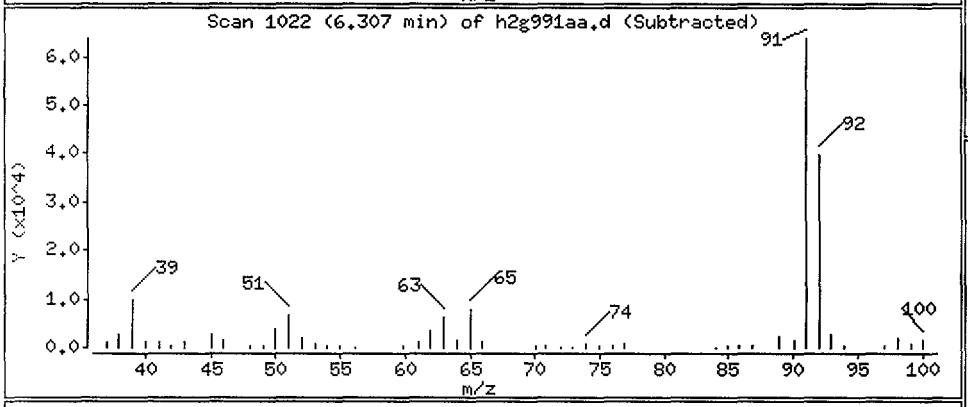
Column phase: J+W 624

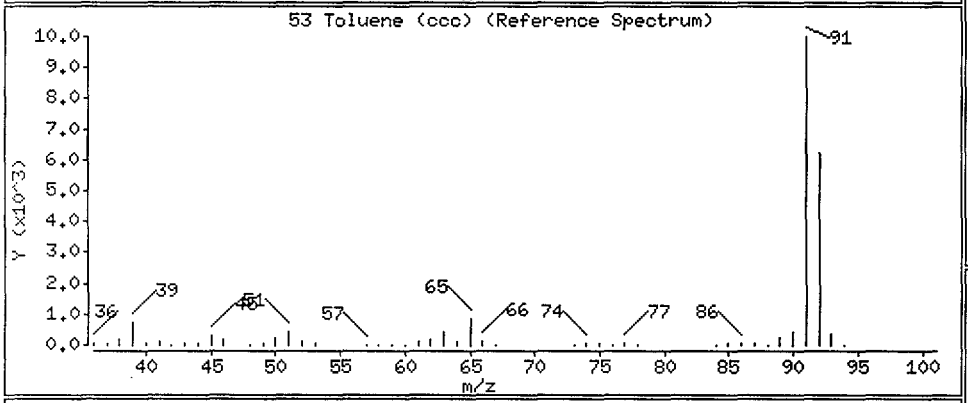
Column diameter: 0.18

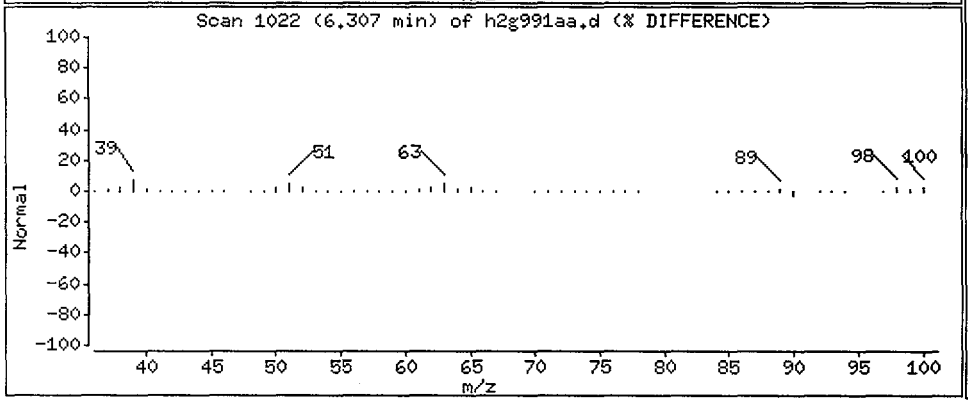
53 Toluene (ccc)

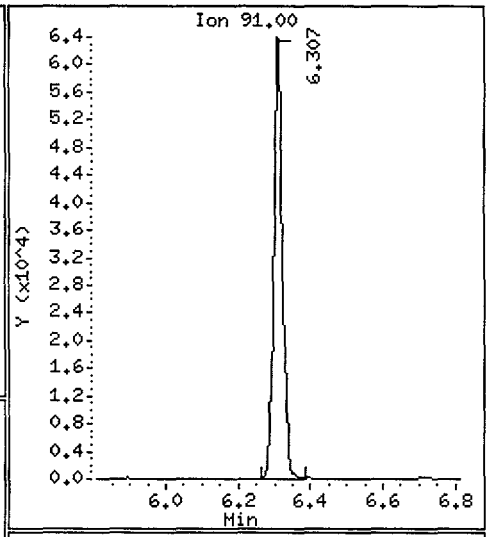
Concentration: 0.020578 ug

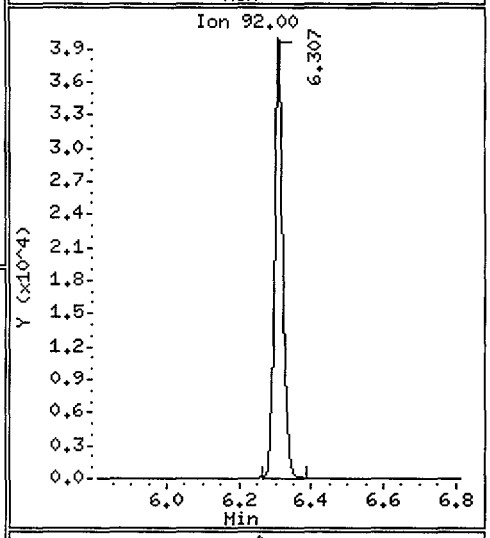


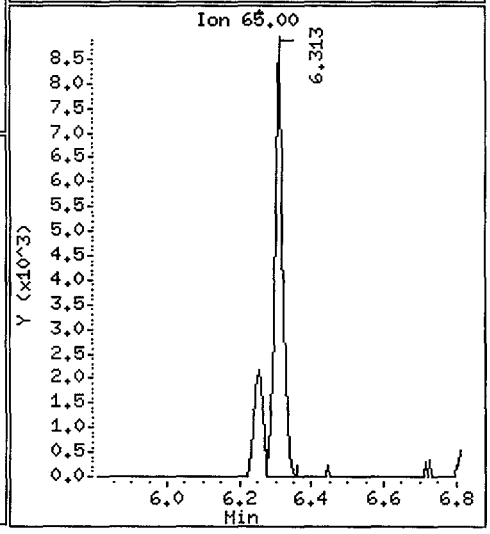












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

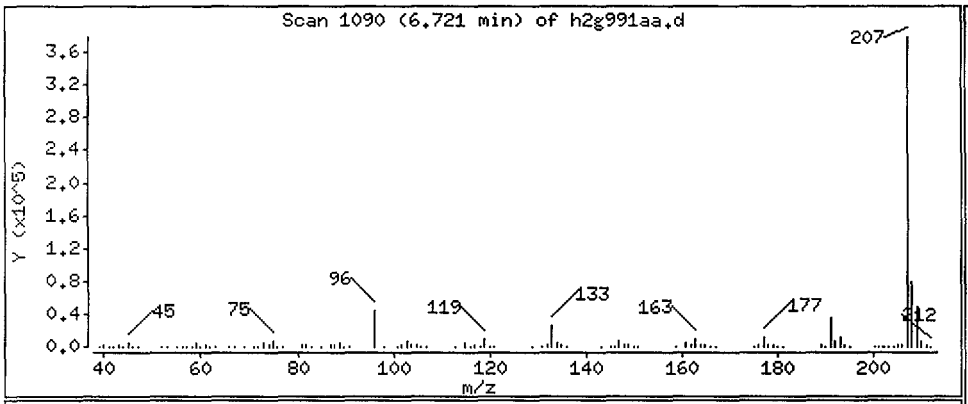
Operator: 22980

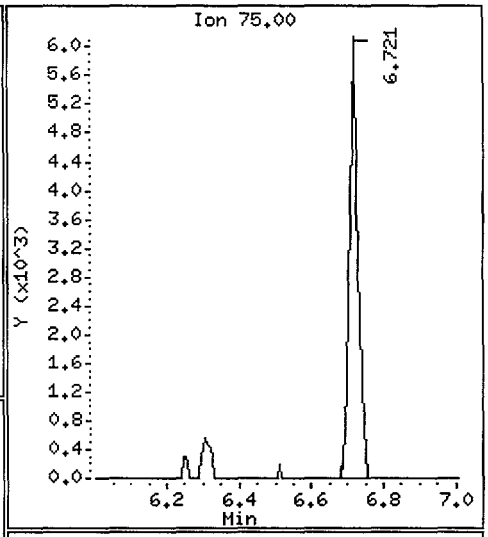
Column phase: J+W 624

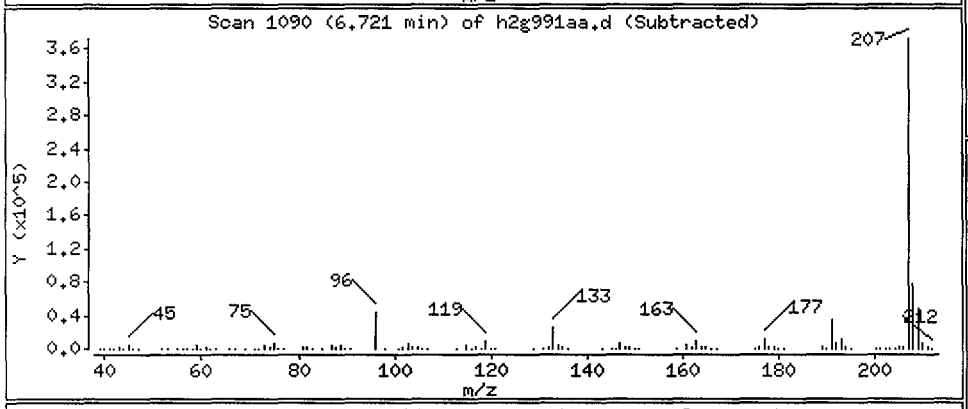
Column diameter: 0.18

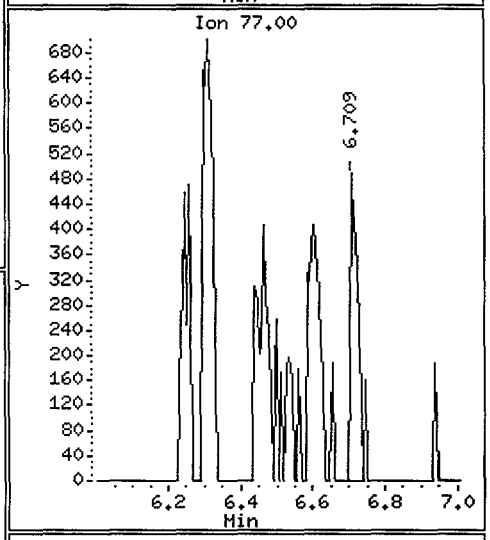
54 trans-1,3-Dichloropropene

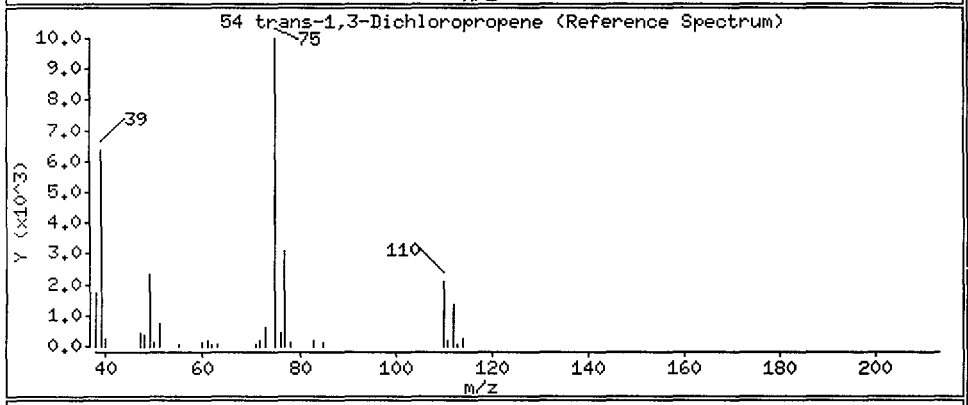
Concentration: 0.011169 ug

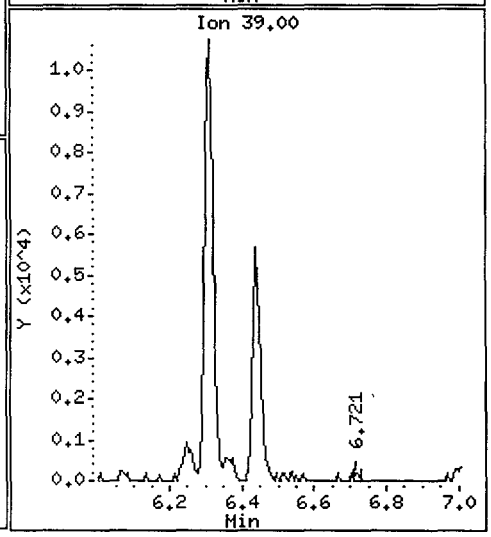


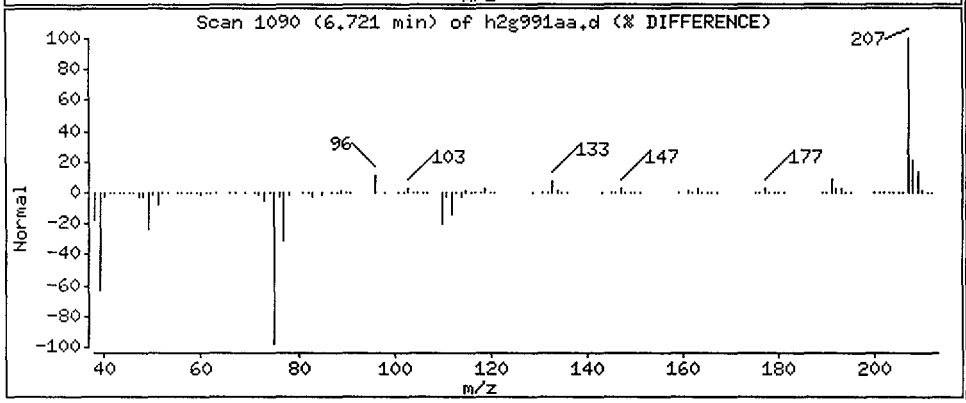












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

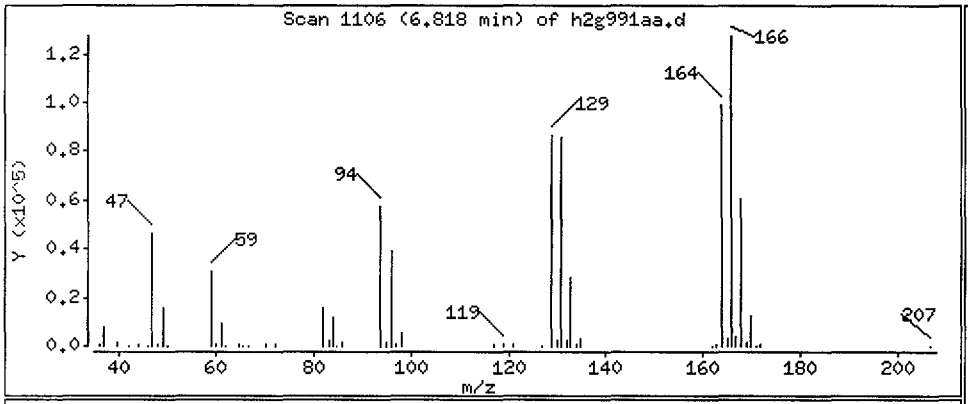
Operator: 22980

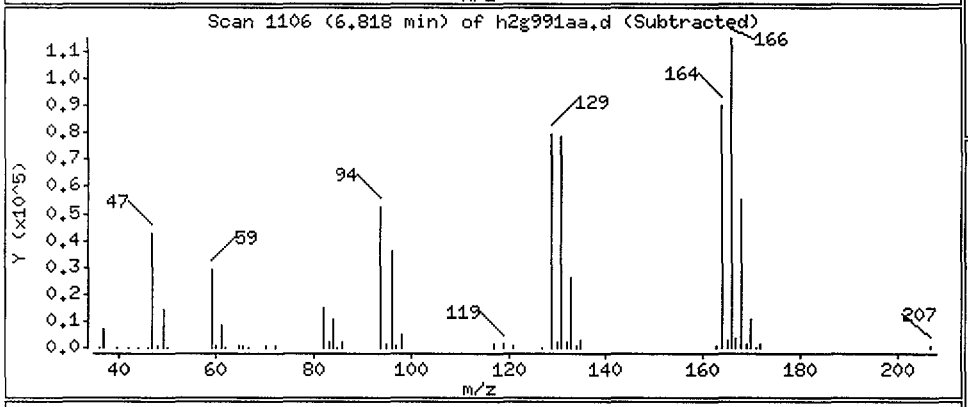
Column phase: J+W 624

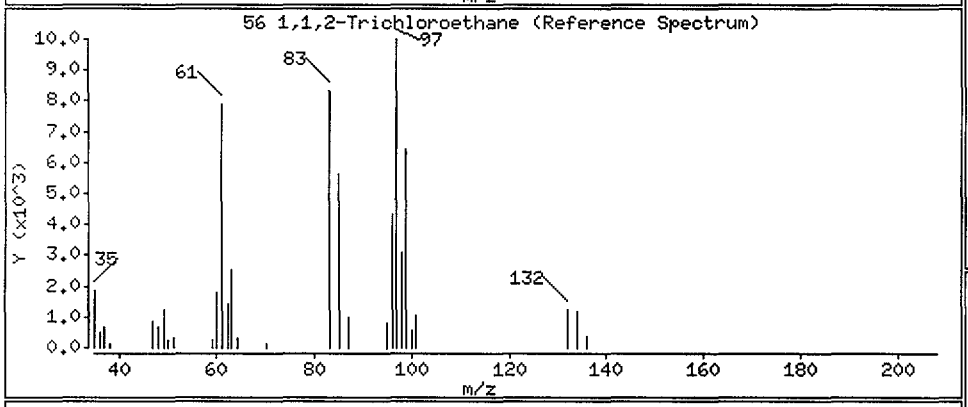
Column diameter: 0.18

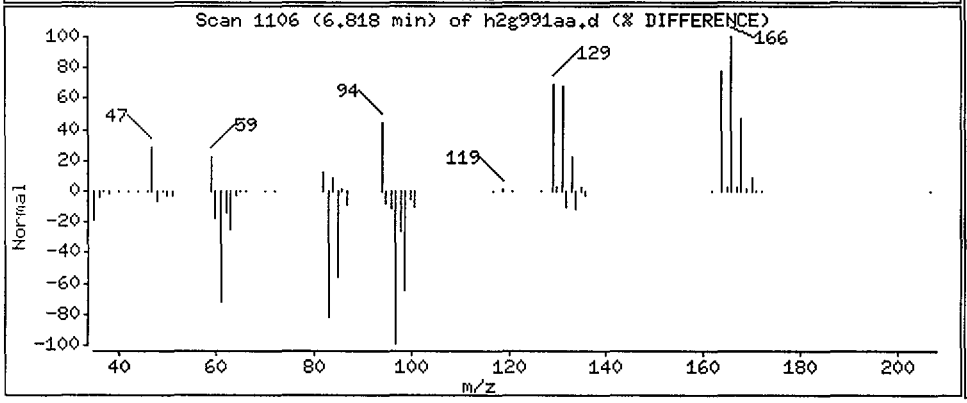
56 1,1,2-Trichloroethane

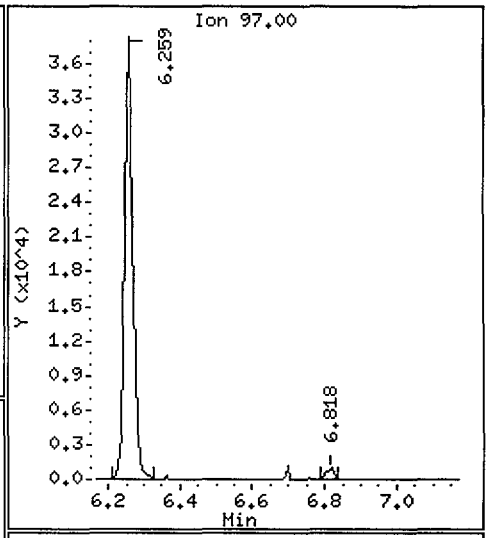
Concentration: 0.0032008 ug

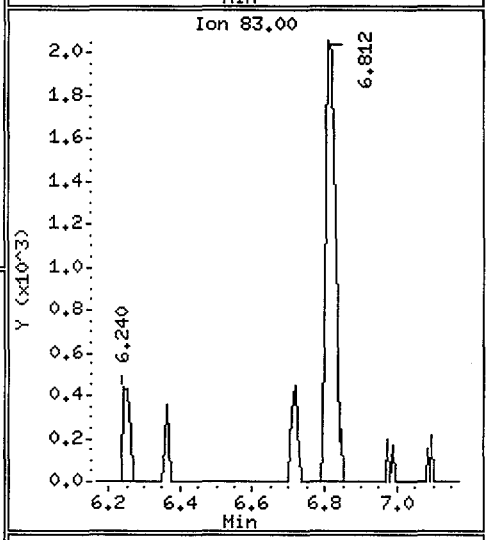


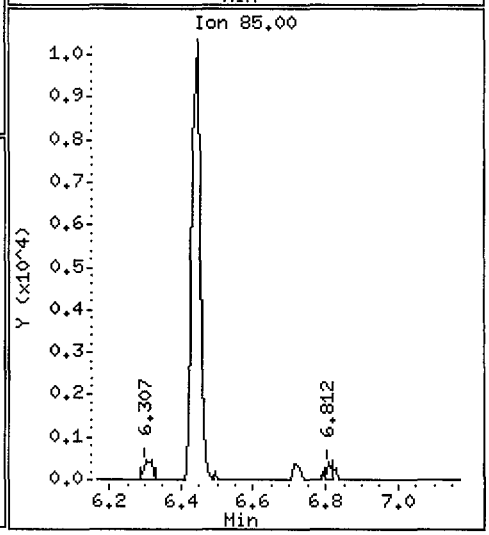












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

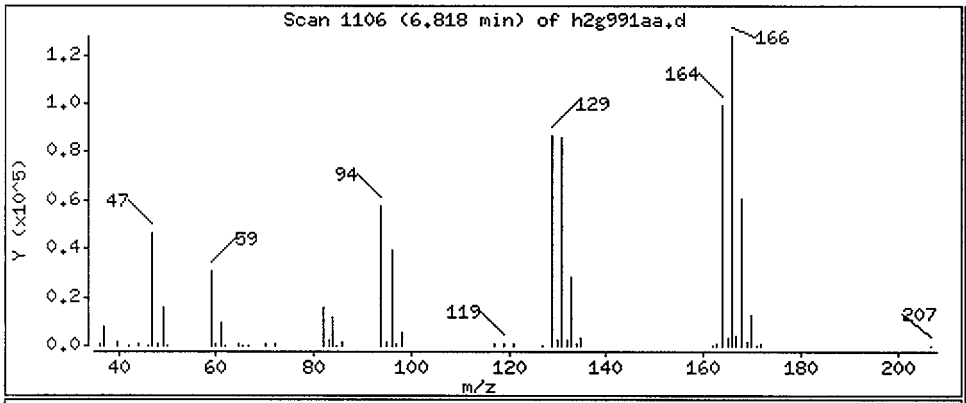
Operator: 22980

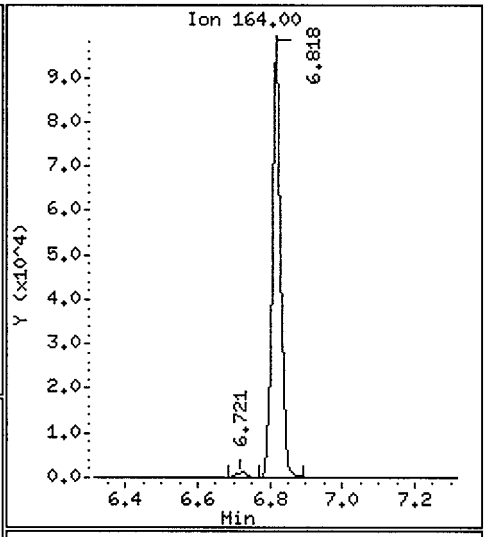
Column phase: J+W 624

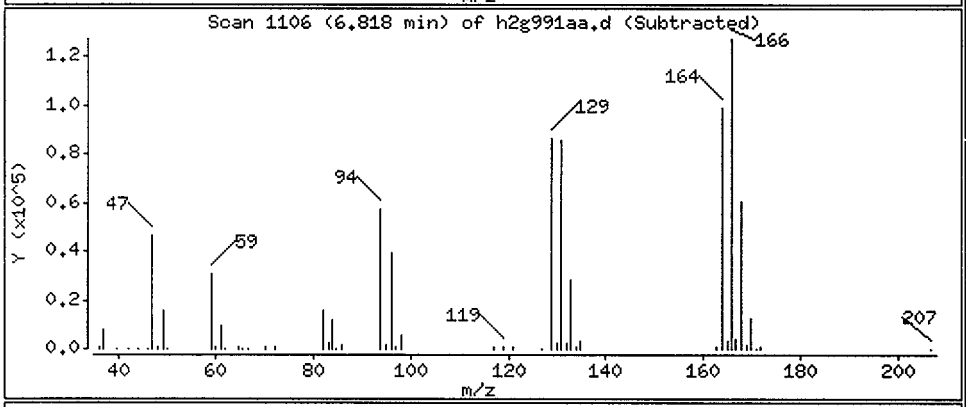
Column diameter: 0.18

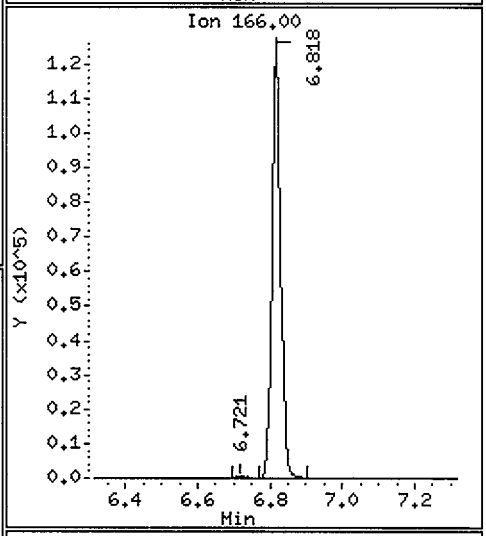
57 Tetrachloroethene

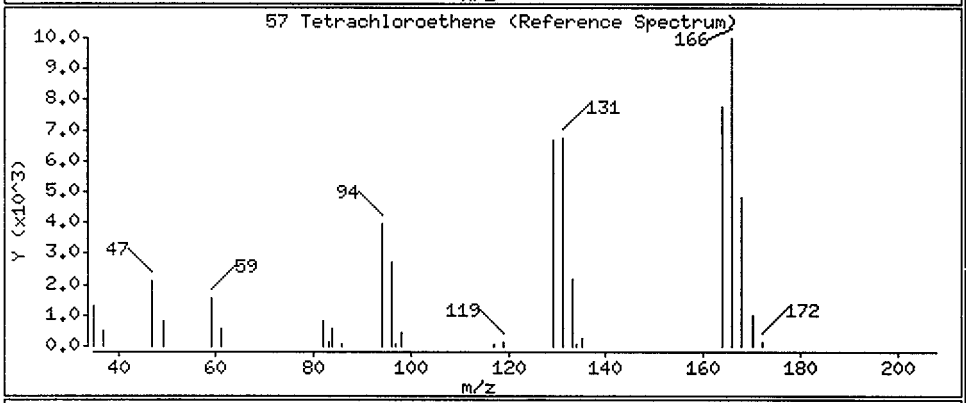
Concentration: 0.14192 ug

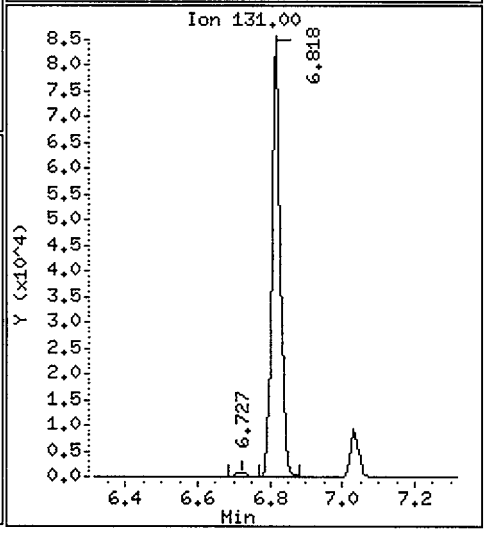


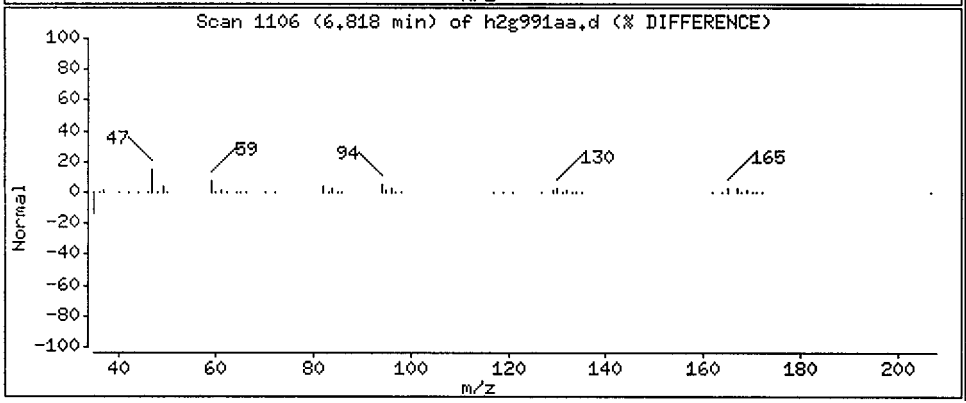












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

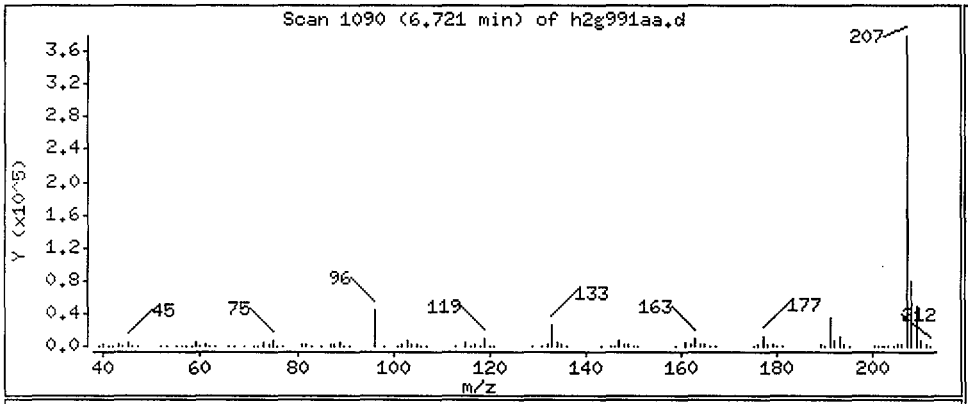
Operator: 22980

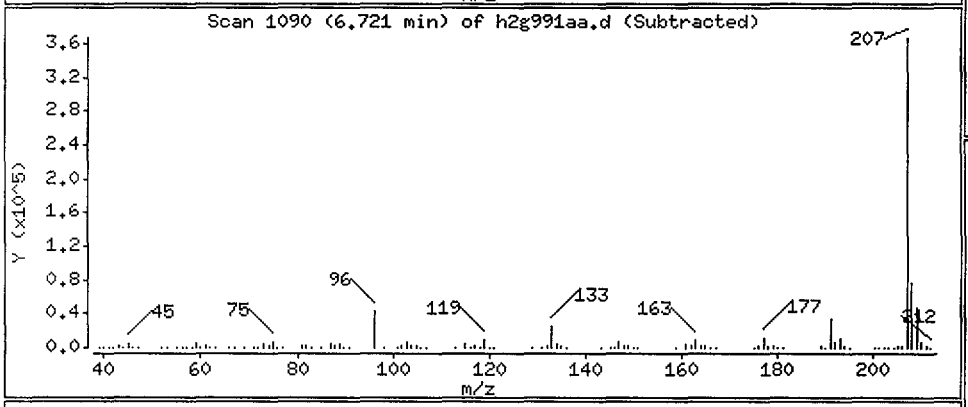
Column phase: J+W 624

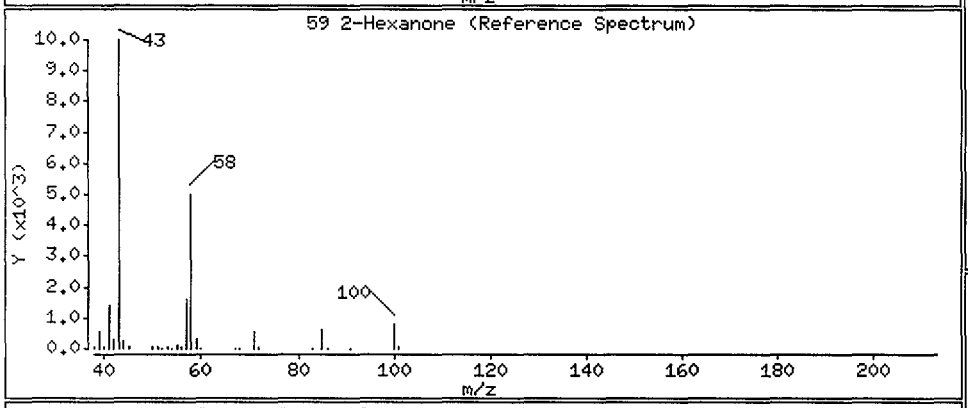
Column diameter: 0.18

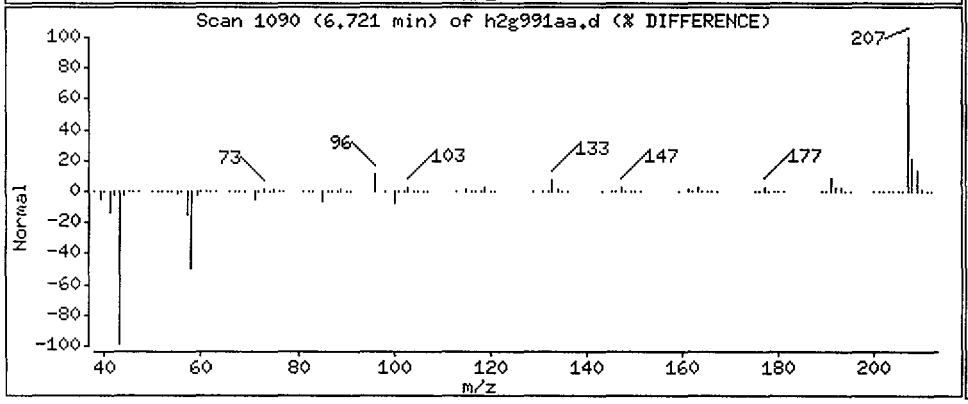
59 2-Hexanone

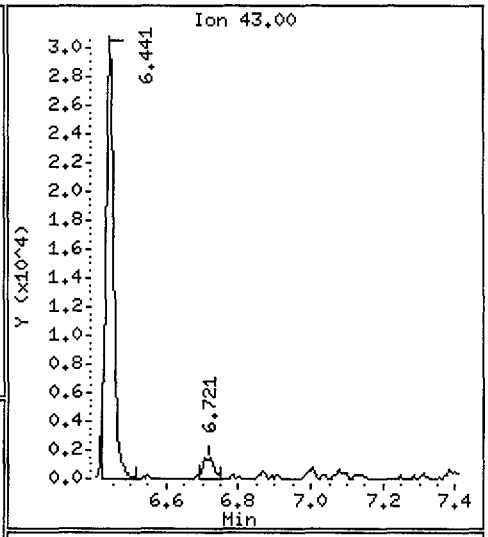
Concentration: 0.017100 ug

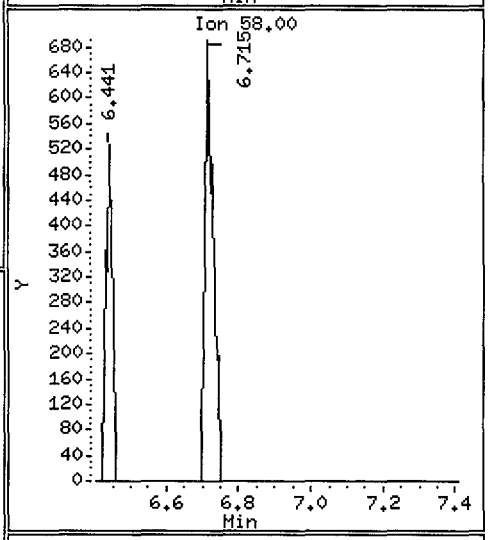


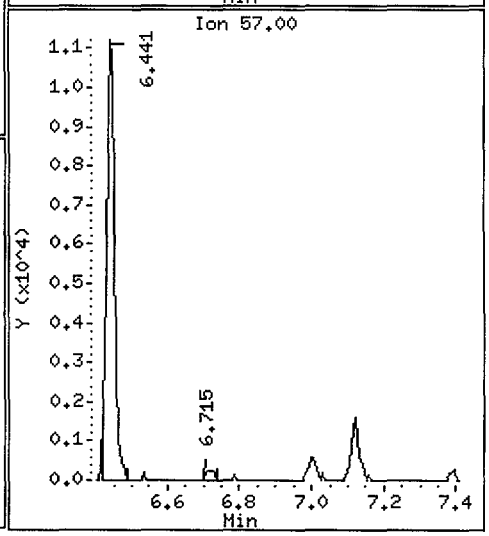












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

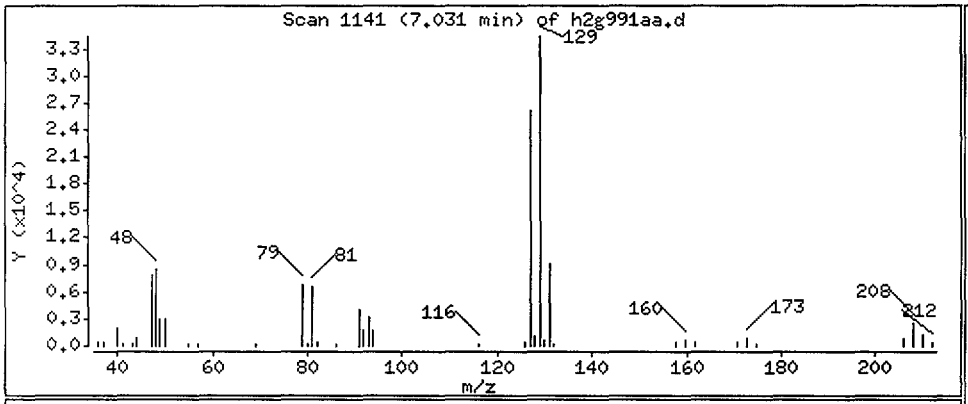
Operator: 22980

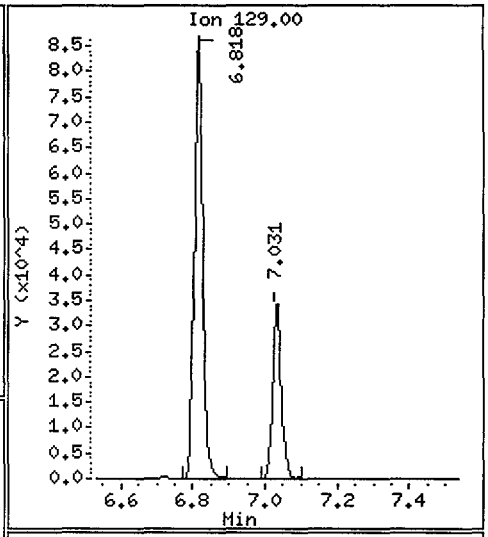
Column phase: J+W 624

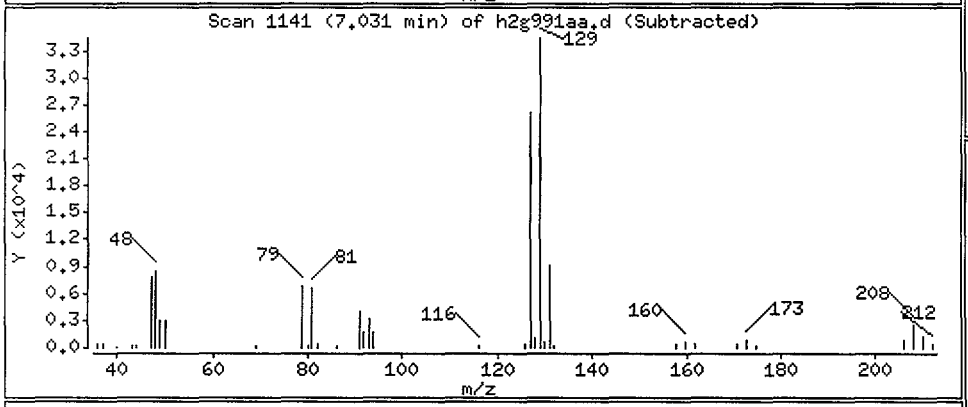
Column diameter: 0.18

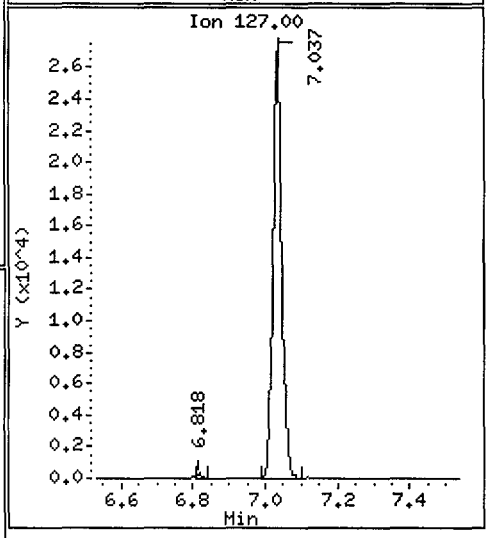
60 Chlorodibromomethane

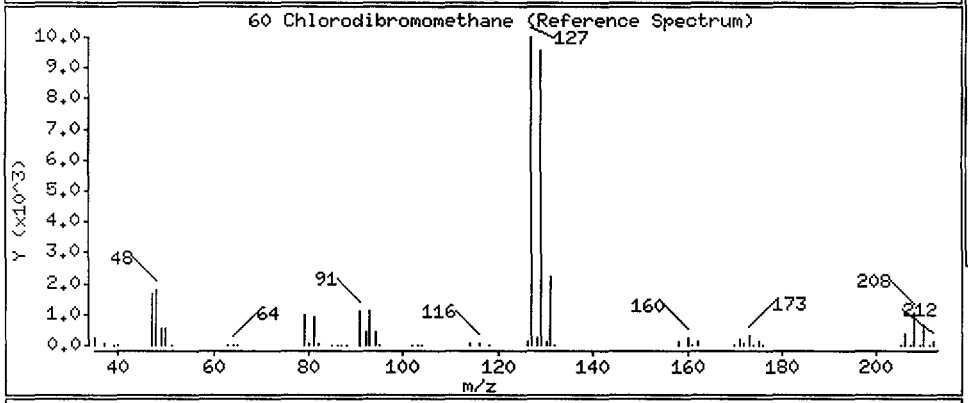
Concentration: 0.11260 ug

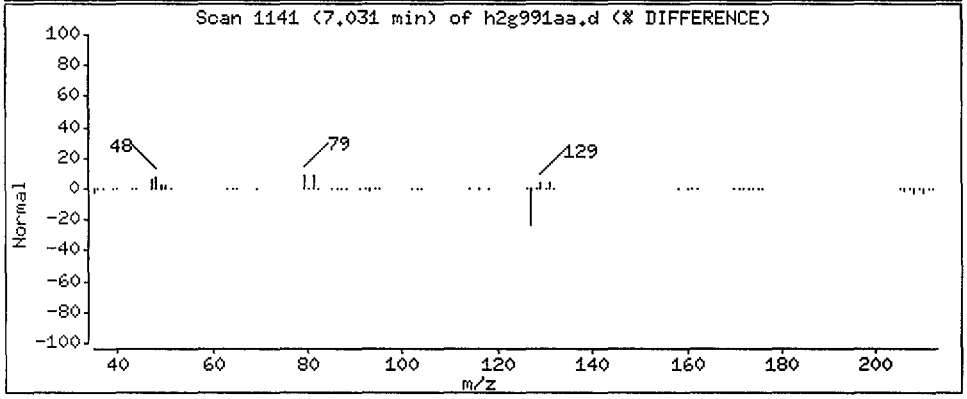












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

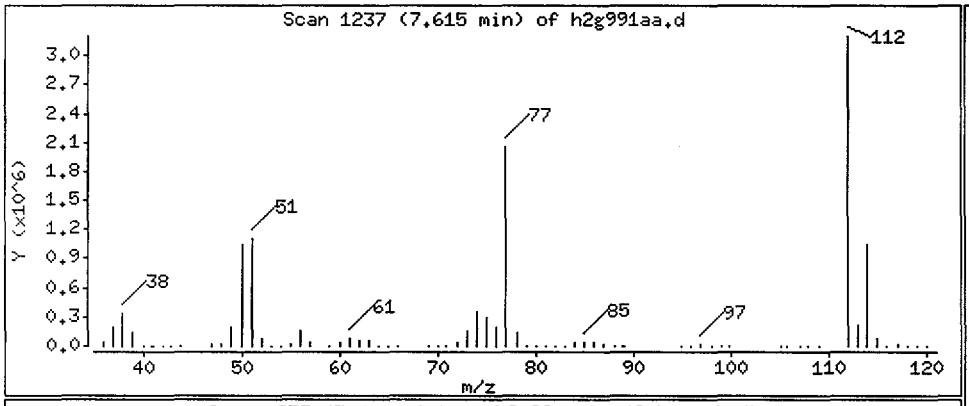
Operator: 22980

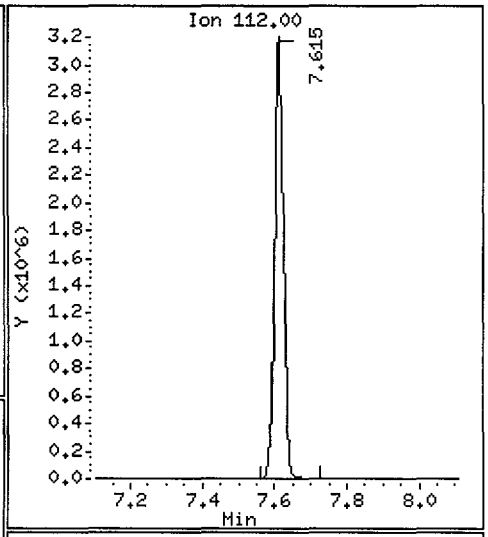
Column phase: J+W 624

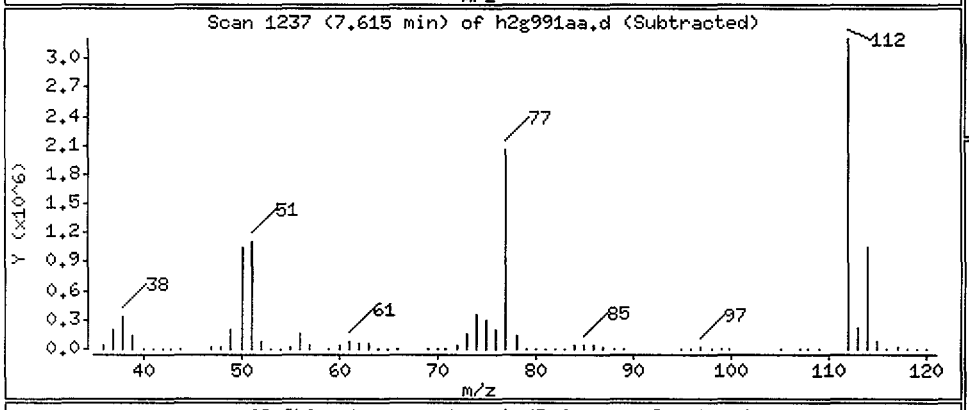
Column diameter: 0.18

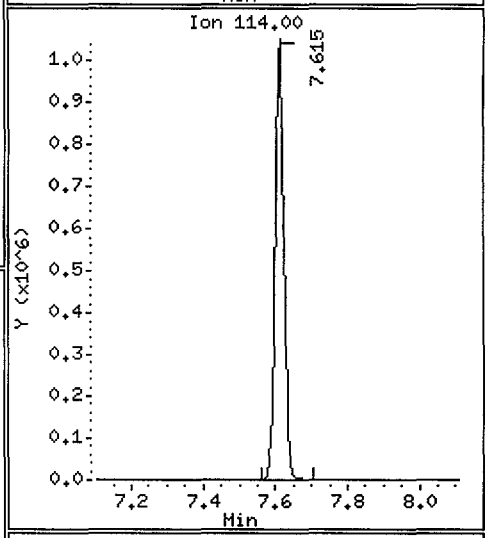
62 Chlorobenzene (spcc)

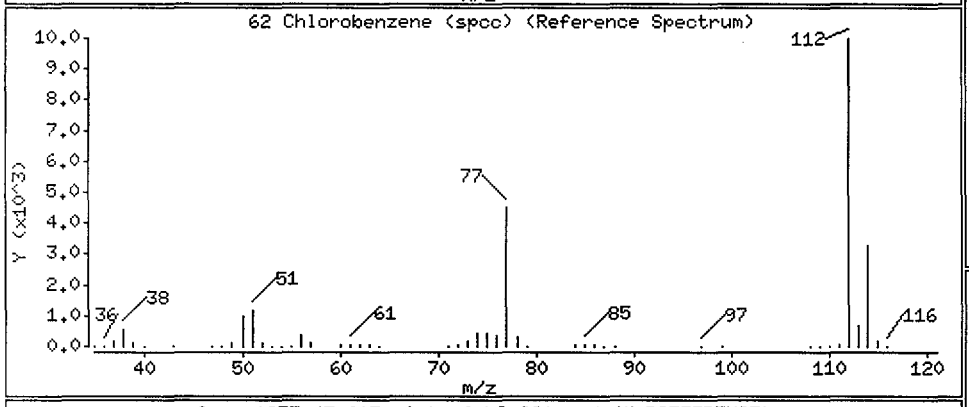
Concentration: 1.9929 ug

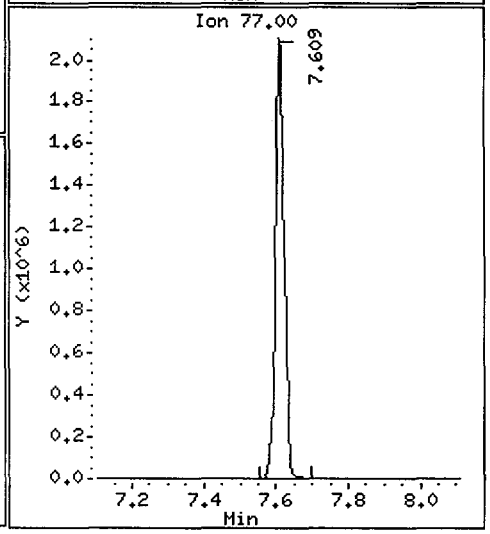


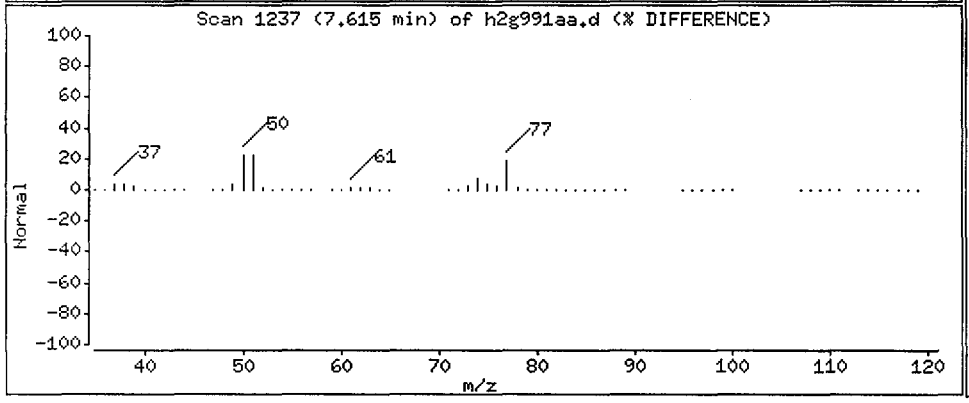












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

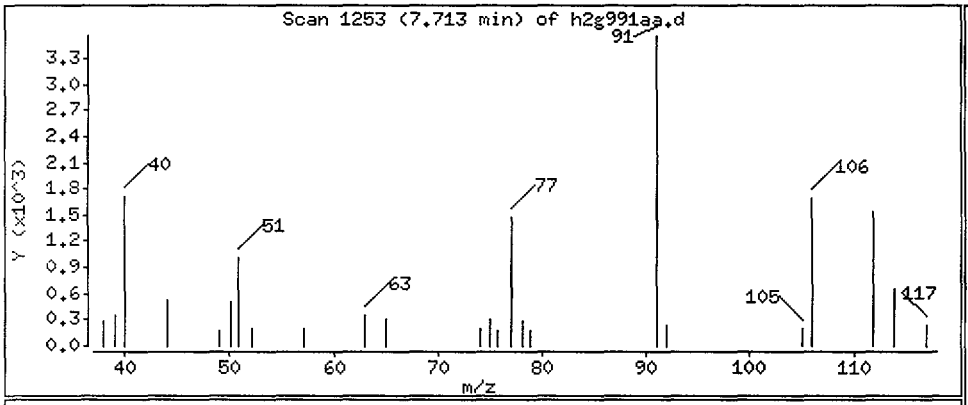
Operator: 22980

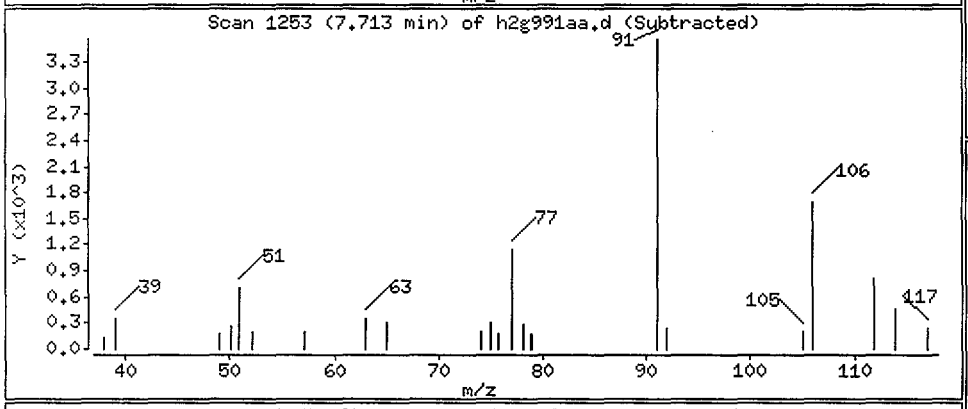
Column phase: J+W 624

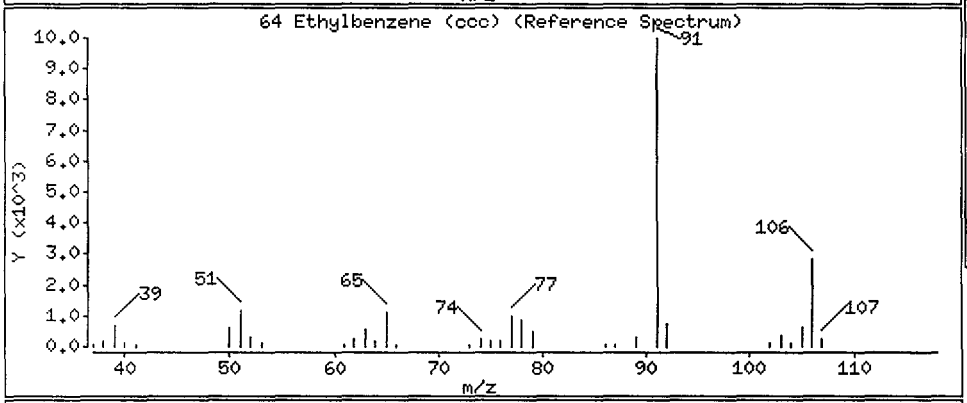
Column diameter: 0.18

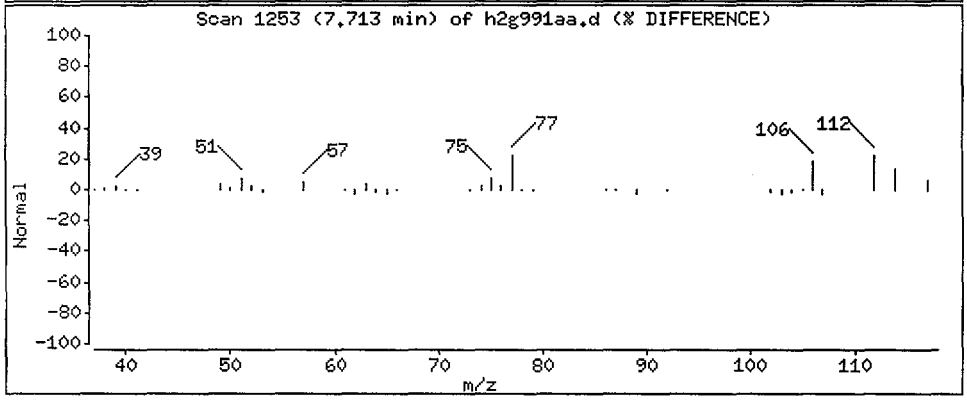
64 Ethylbenzene (ccc)

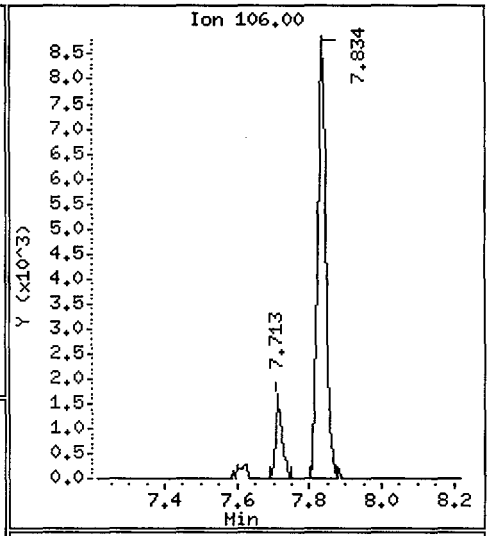
Concentration: 0.0011264 ug

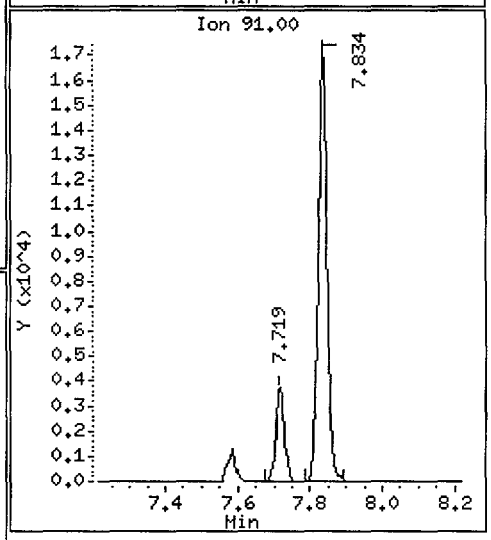












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

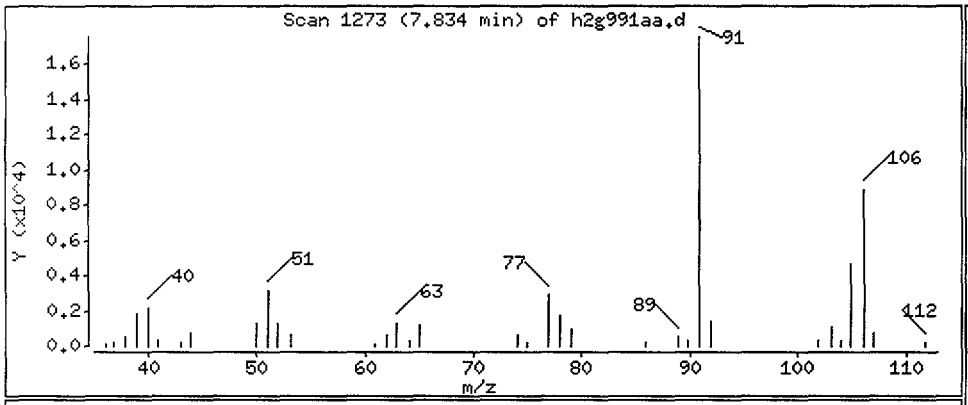
Operator: 22980

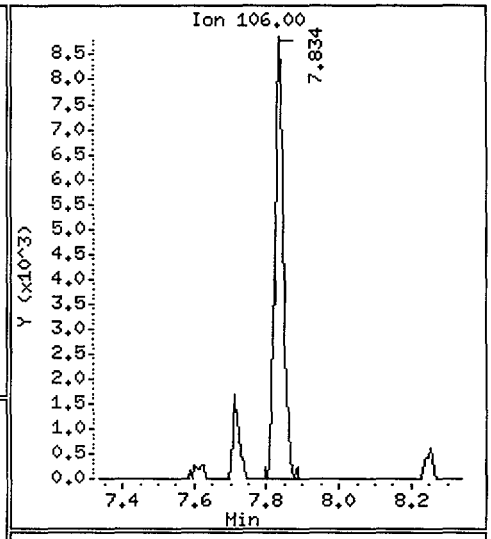
Column phase: J+W 624

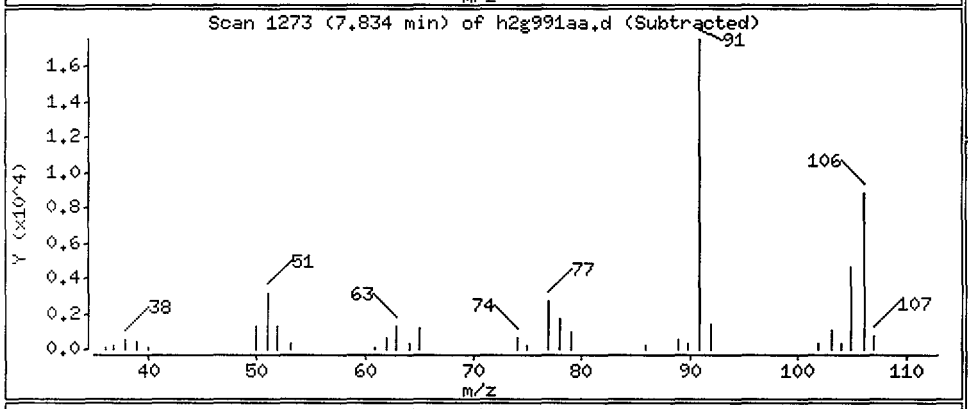
Column diameter: 0.18

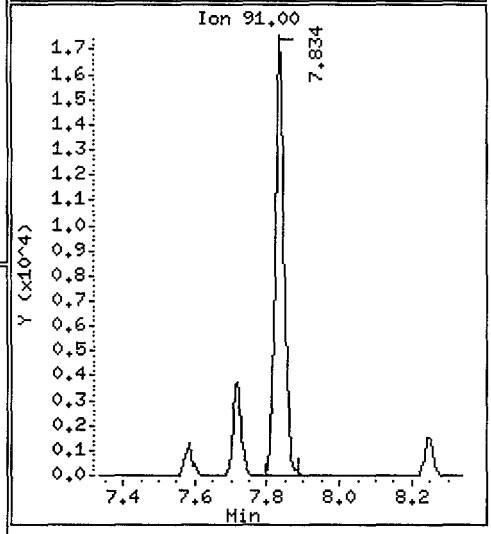
65 m&p-Xylene

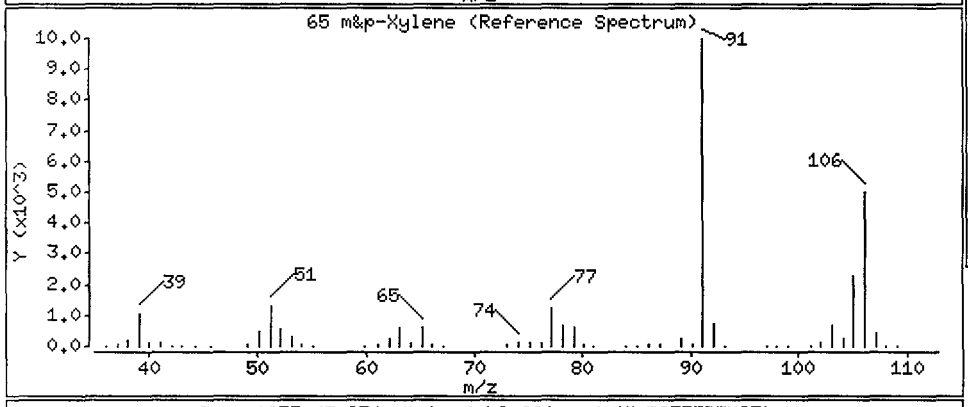
Concentration: 0.0067952 ug

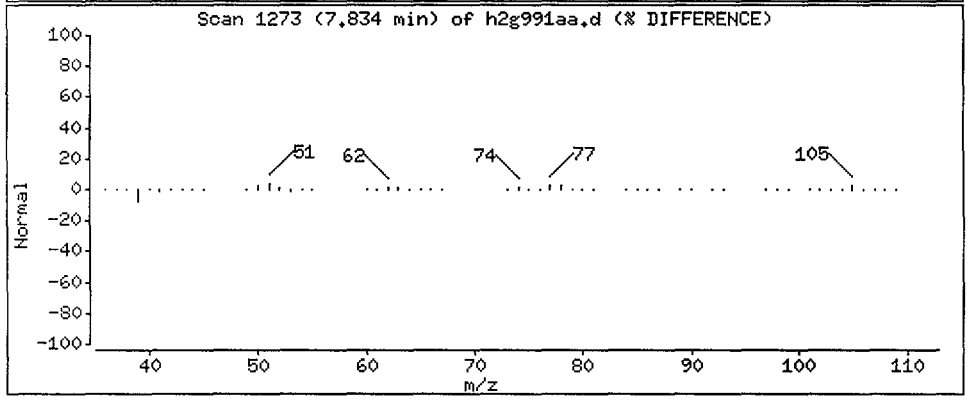












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

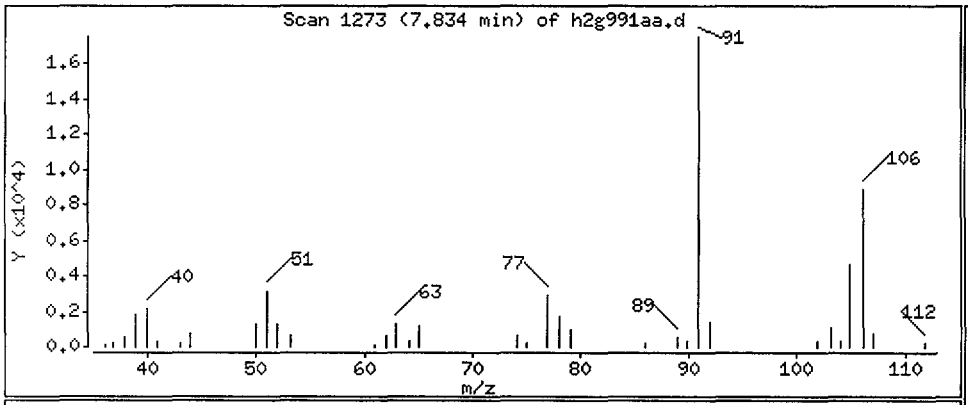
Operator: 22980

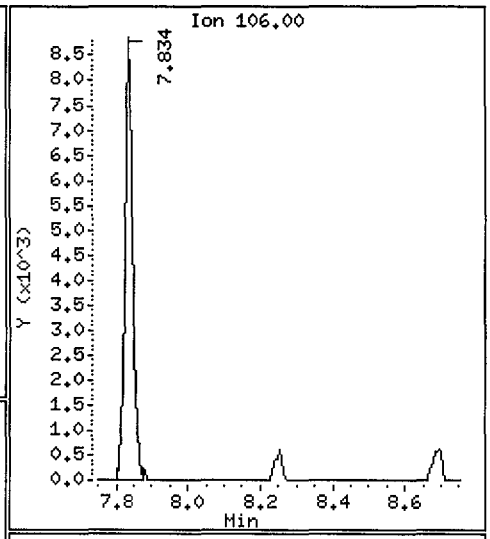
Column phase: J+W 624

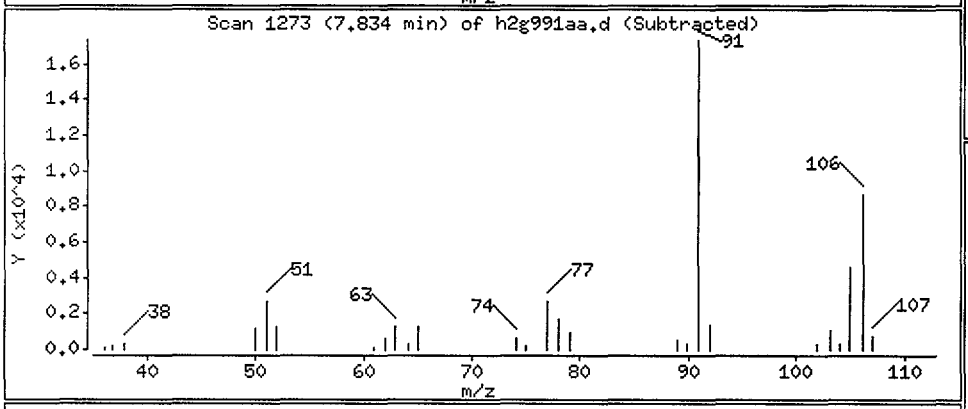
Column diameter: 0.18

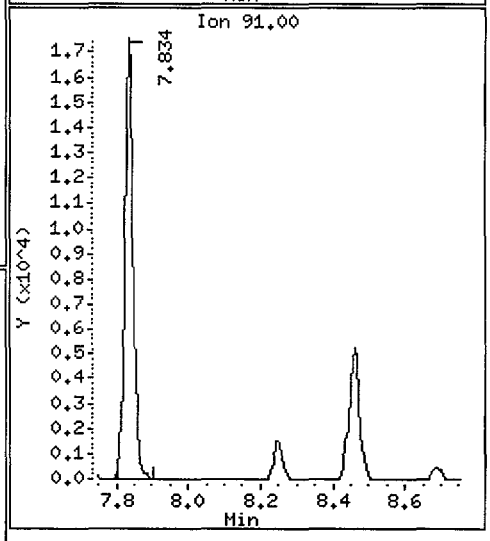
66 o-Xylene

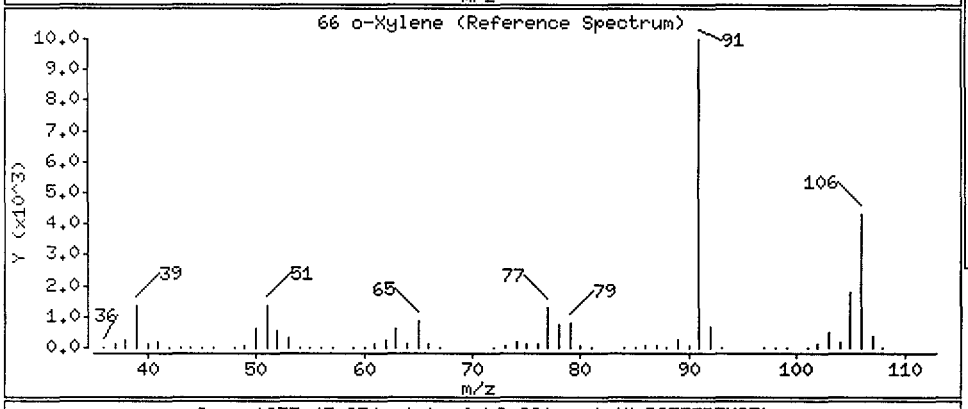
Concentration: 0.0078898 ug

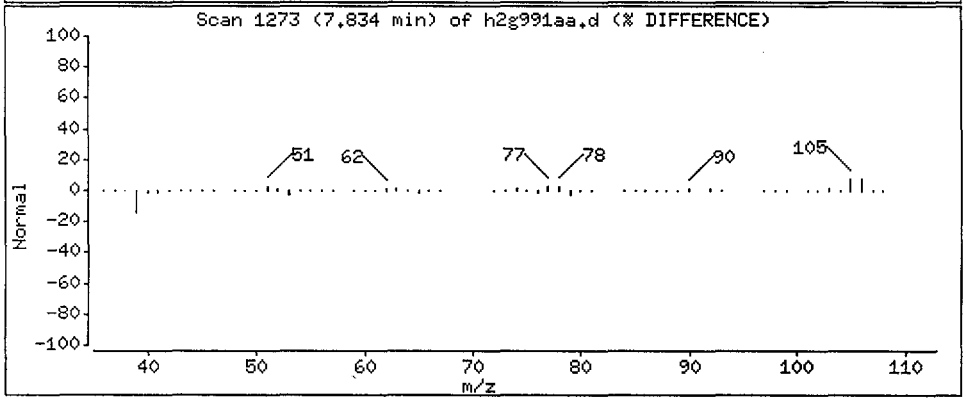












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

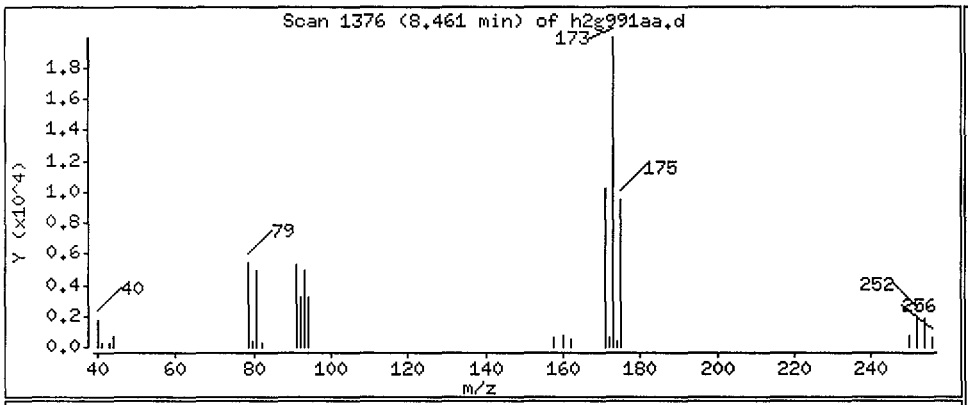
Operator: 22980

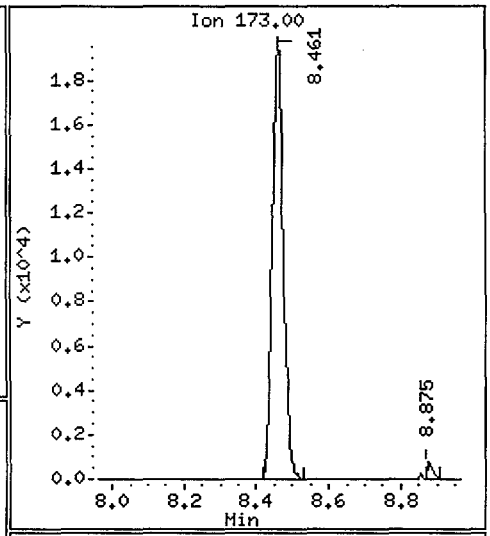
Column phase: J+W 624

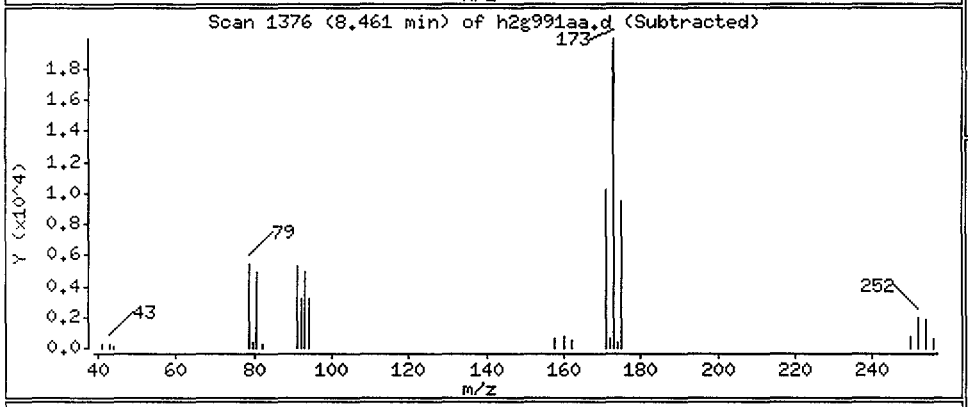
Column diameter: 0.18

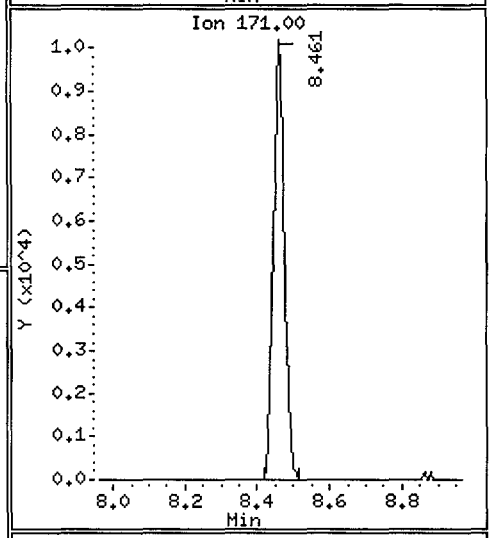
68 Bromoform (spcc)

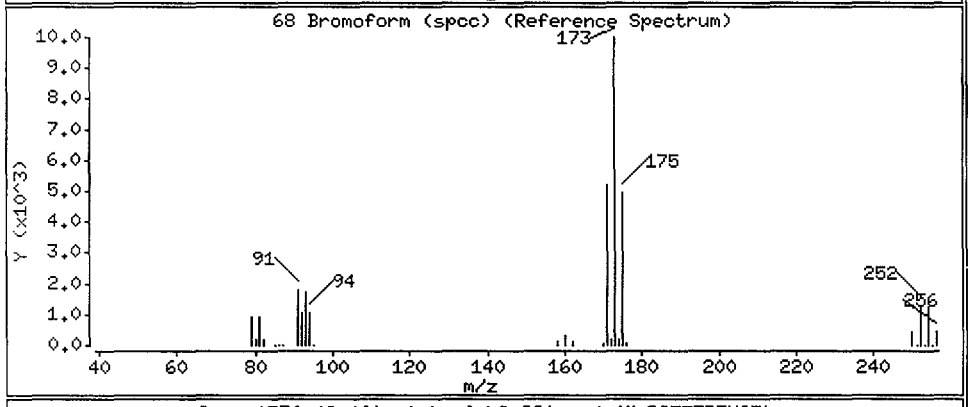
Concentration: 0.16776 ug

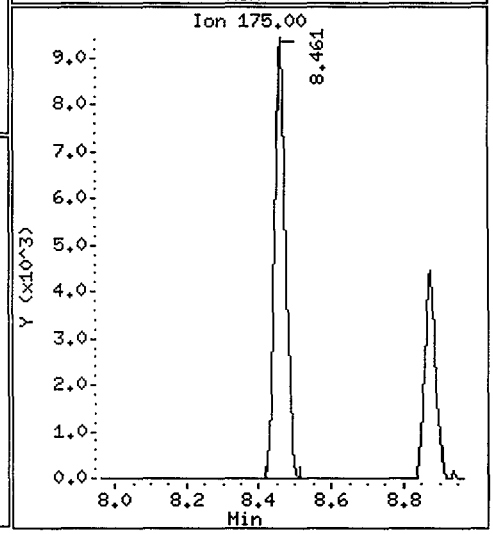


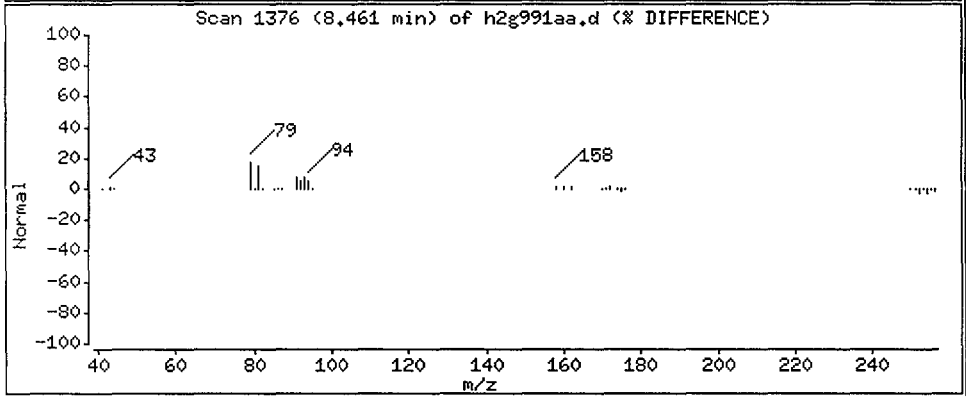












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

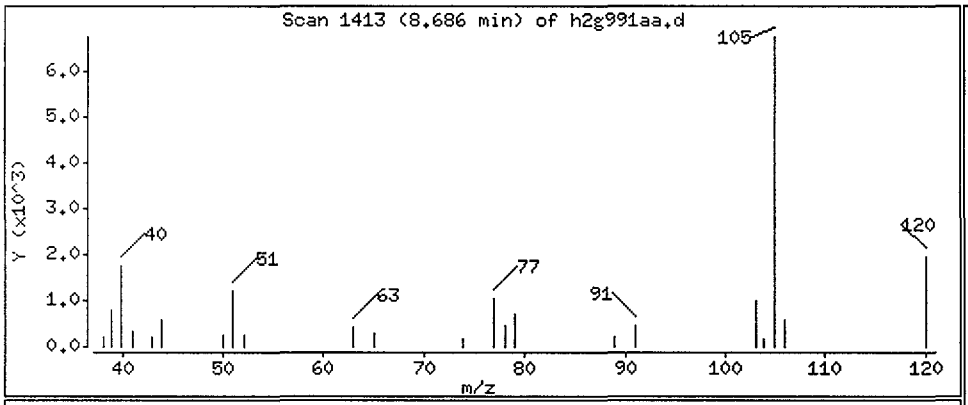
Operator: 22980

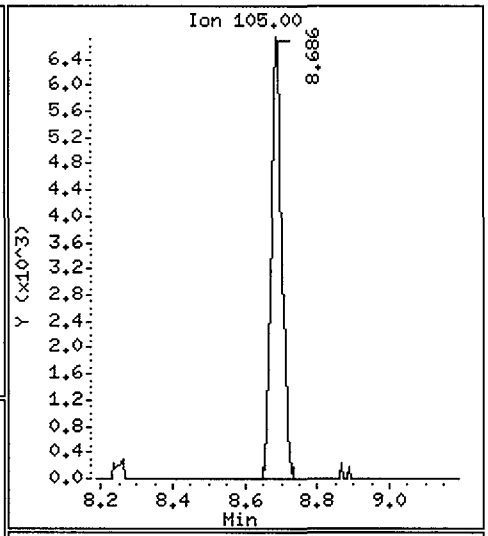
Column phase: J+W 624

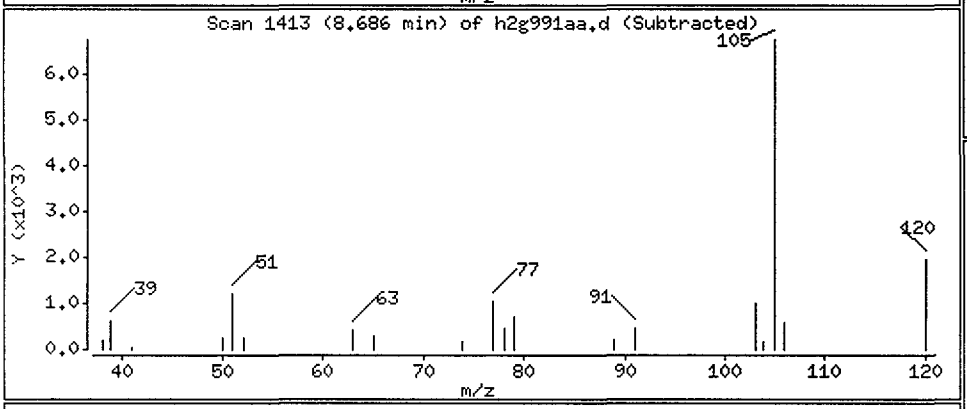
Column diameter: 0.18

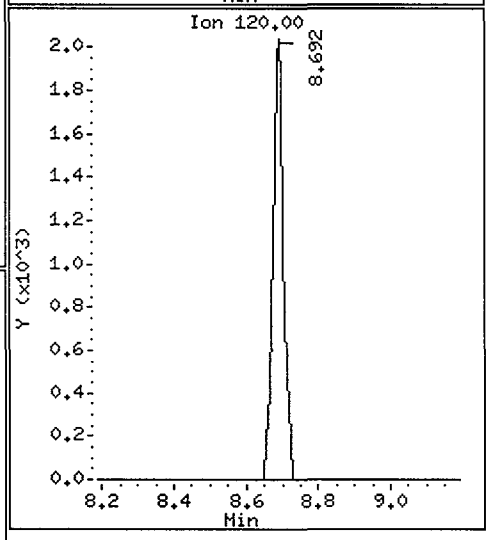
69 Isopropylbenzene

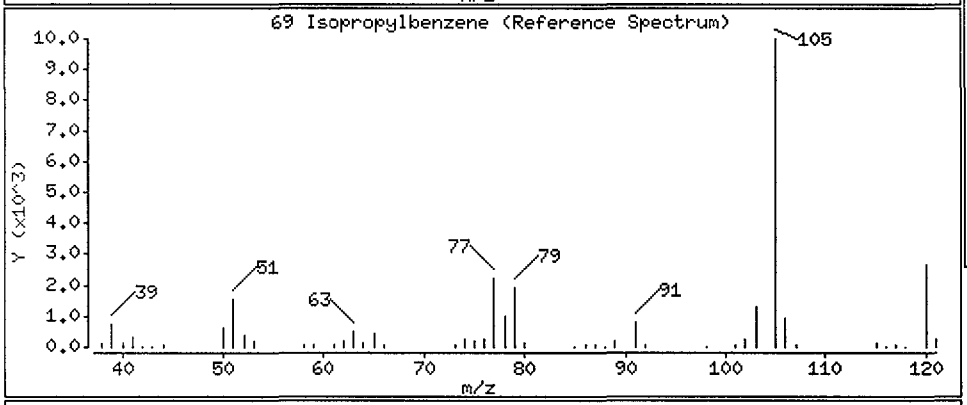
Concentration: 0.0022894 ug

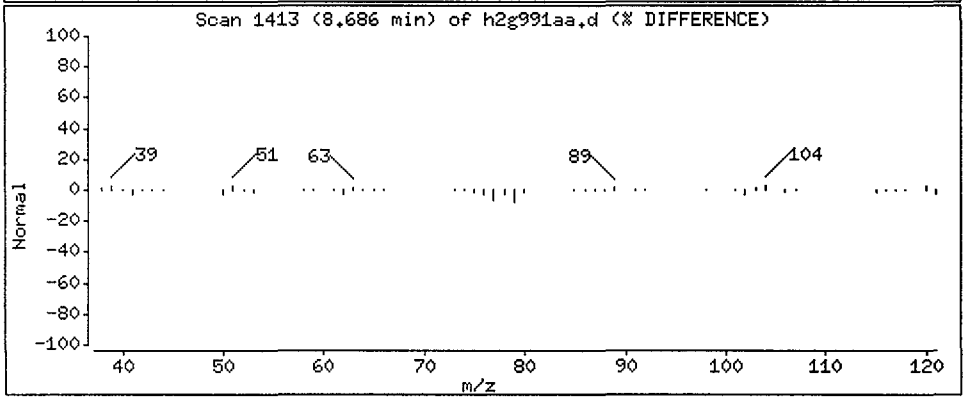












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

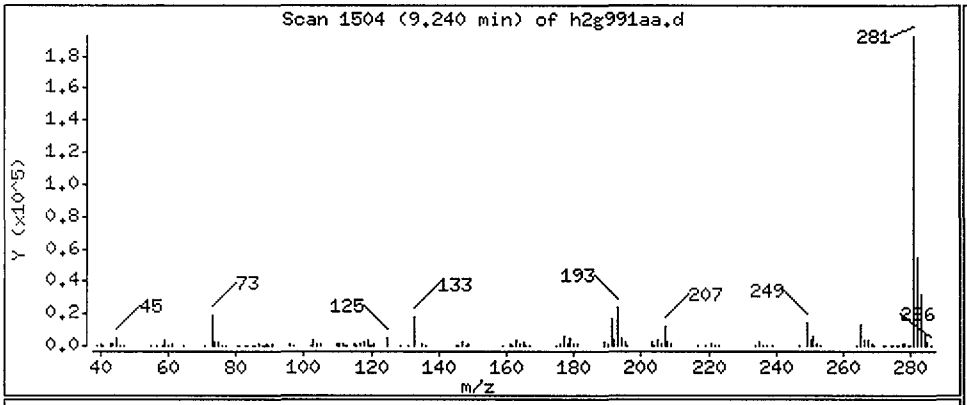
Operator: 22980

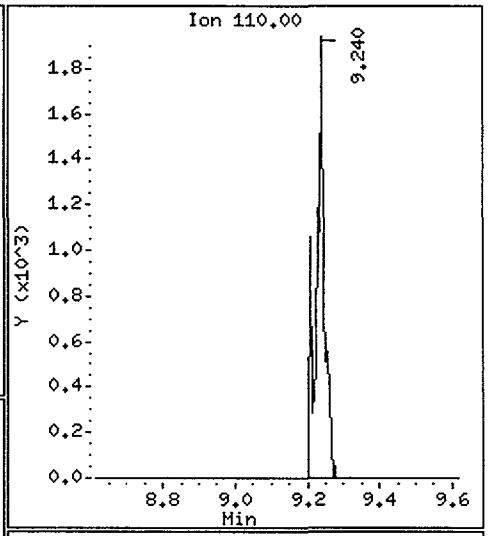
Column phase: J+W 624

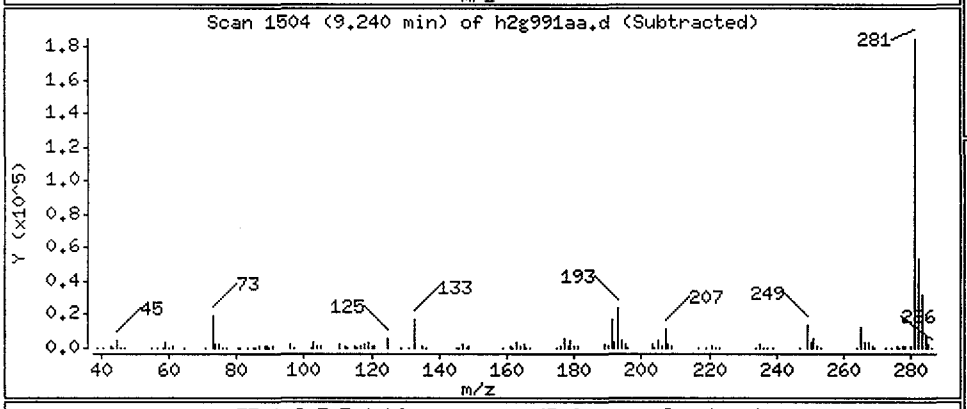
Column diameter: 0.18

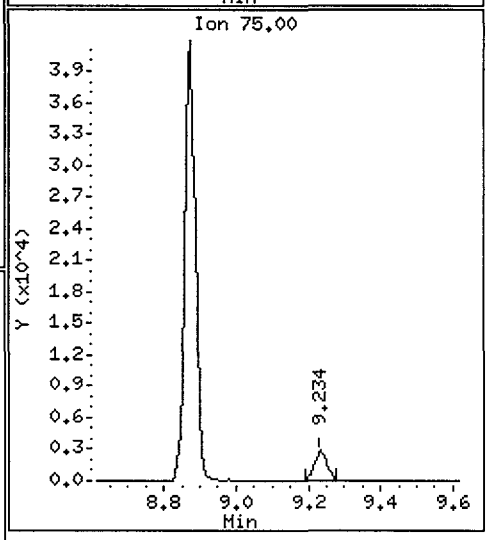
73 1,2,3-Trichloropropane

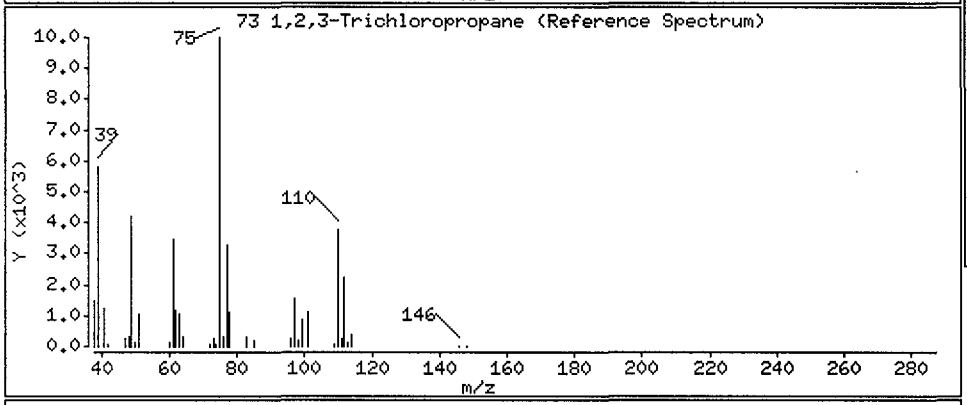
Concentration: 0.031996 ug

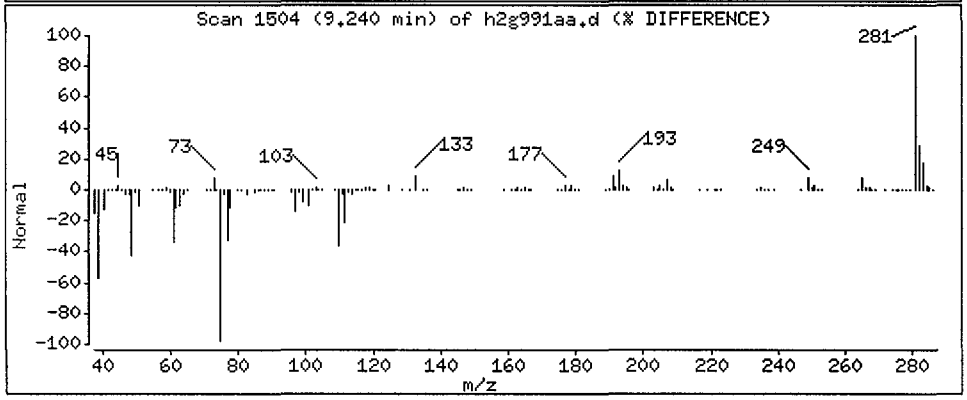












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

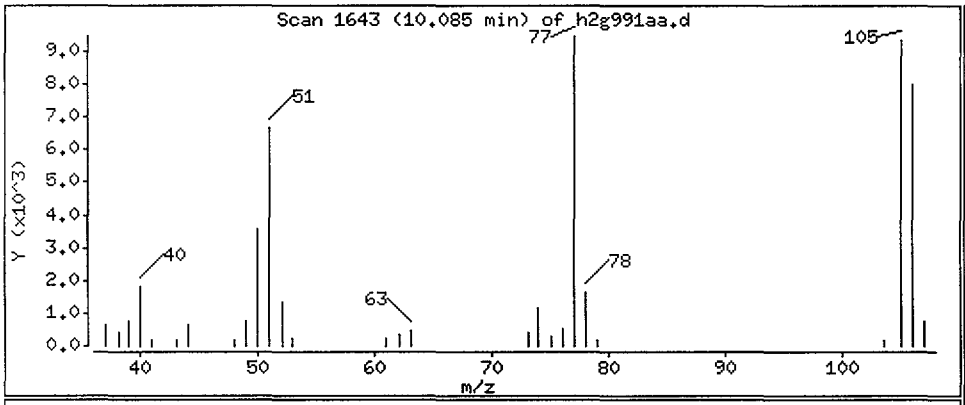
Operator: 22980

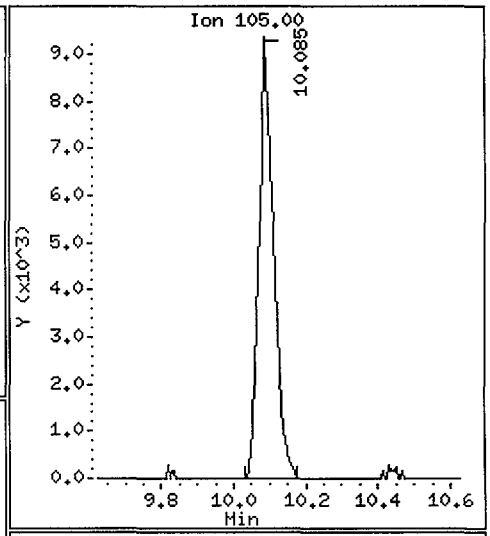
Column phase: J+W 624

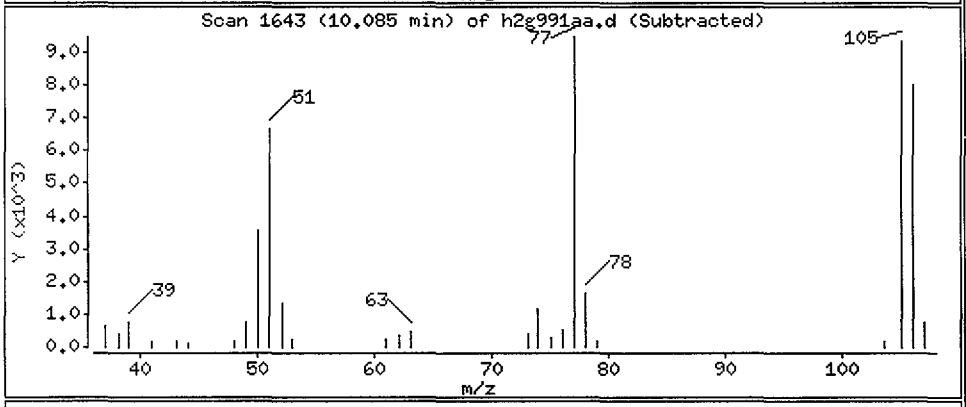
Column diameter: 0.18

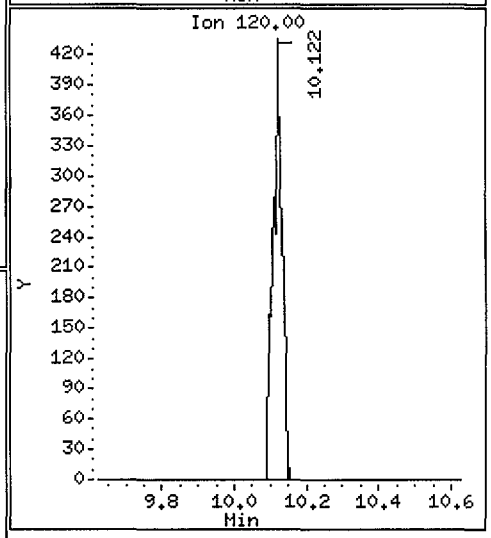
80 1,2,4-Trimethylbenzene

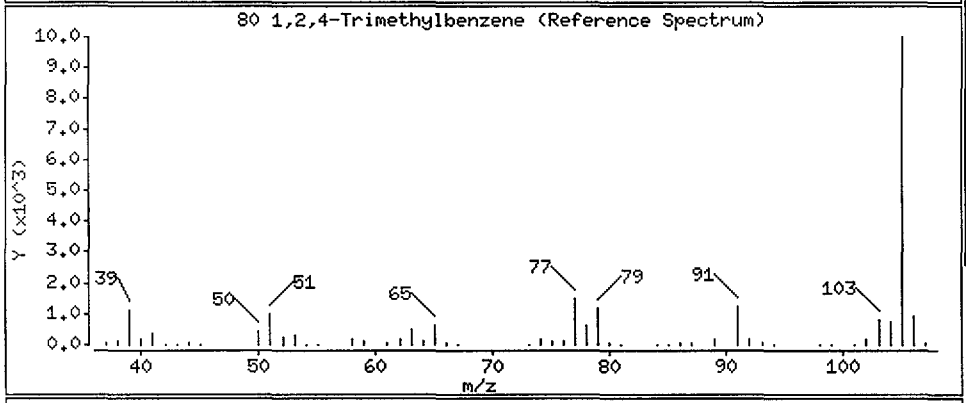
Concentration: 0.0083754 ug

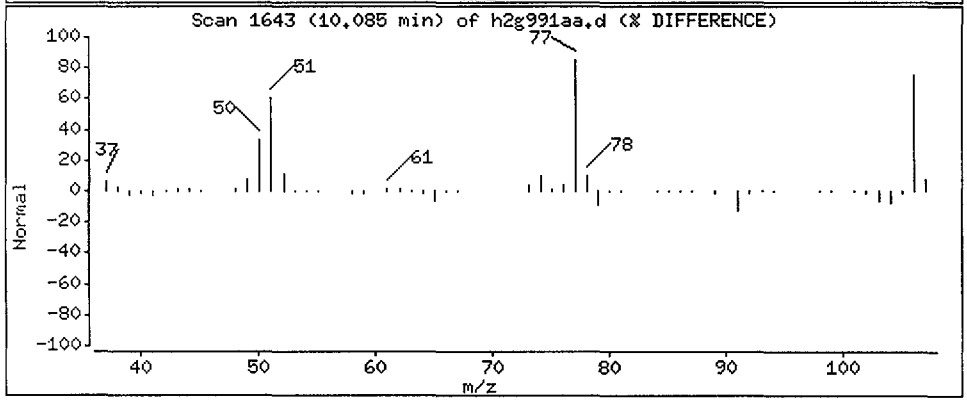












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

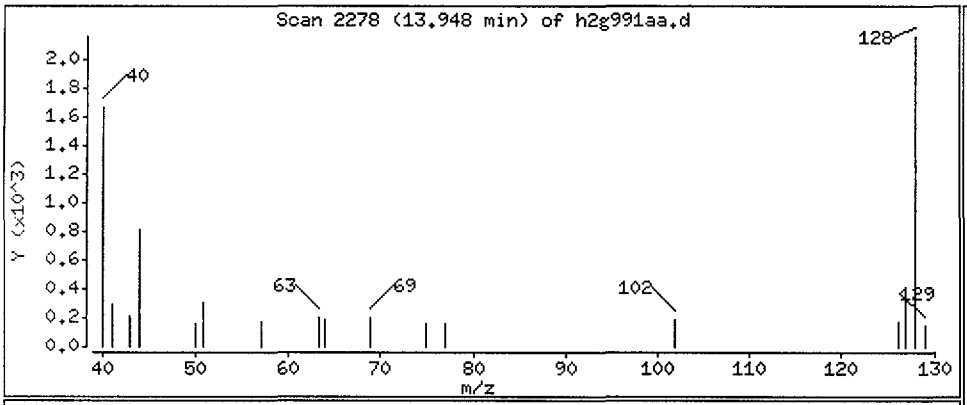
Operator: 22980

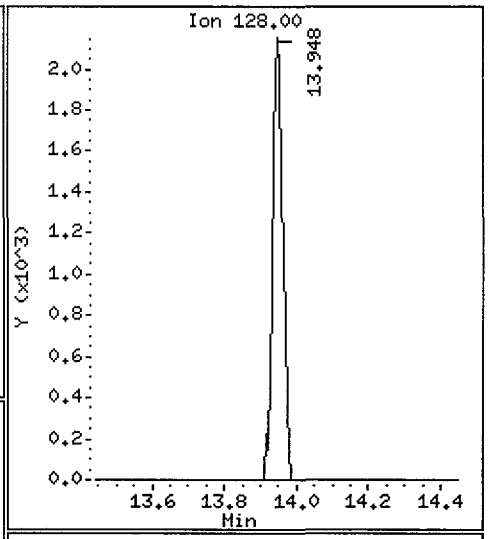
Column phase: J+W 624

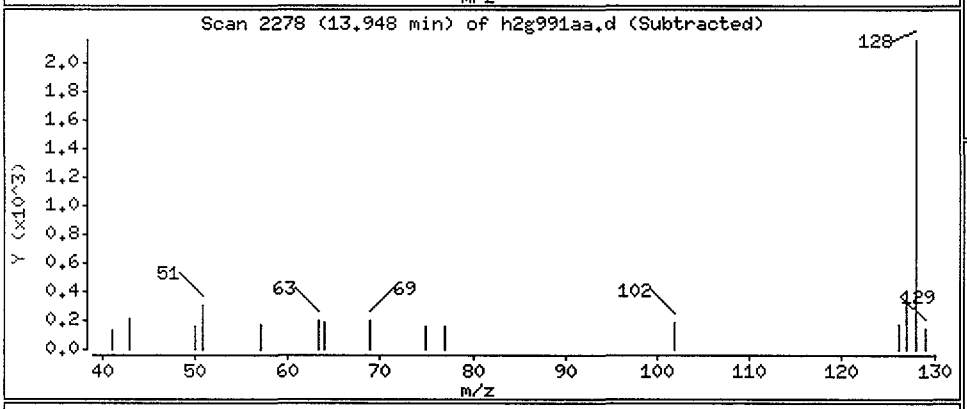
Column diameter: 0.18

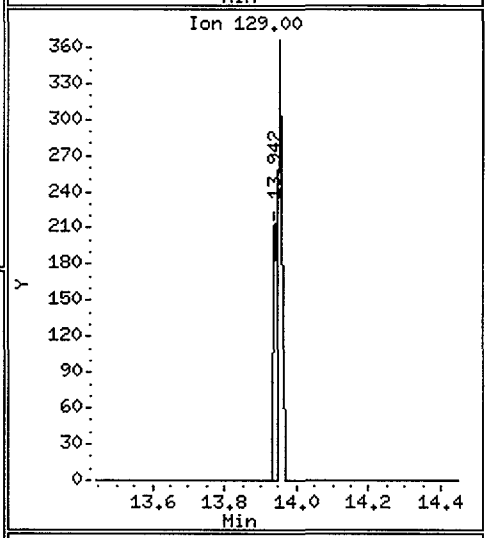
90 Napthalene

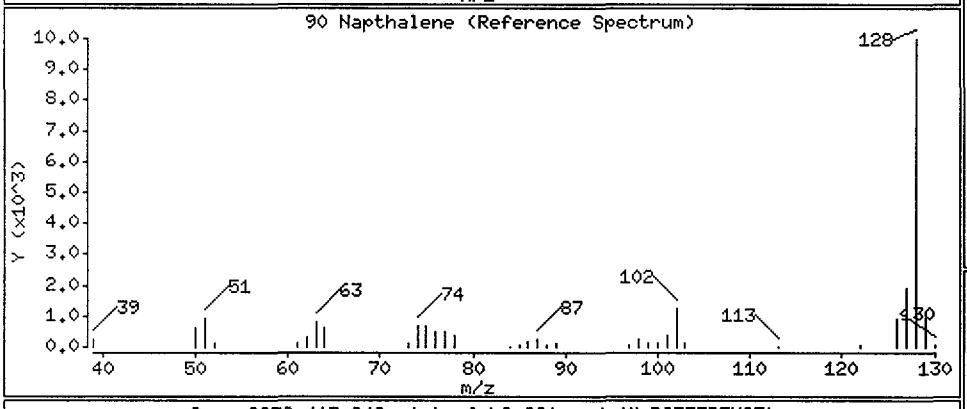
Concentration: 0.010027 ug

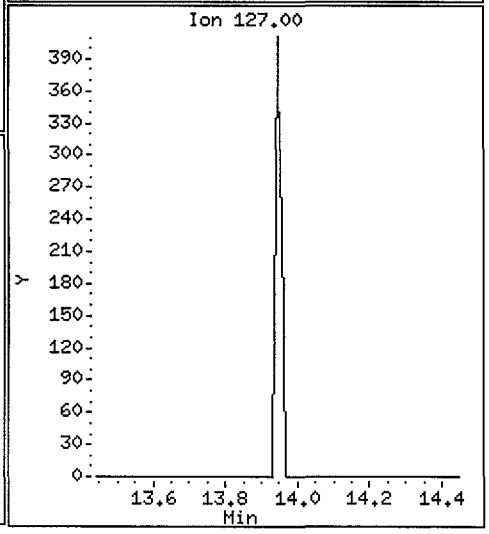


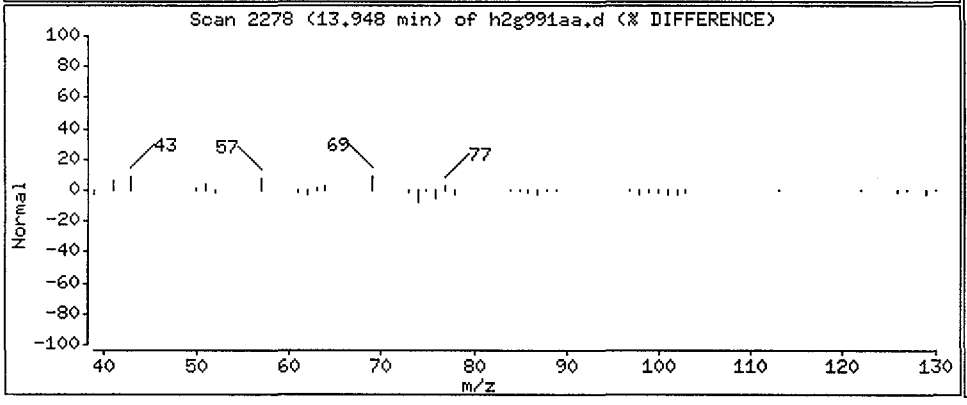












Data File: /var/chem/gcms/mx.i/X040706.b/h2g991aa.d
Report Date: 18-Apr-2006 14:55

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X040706.b/h2g991aa.d
Lab Smp Id: H2G991AA Client Smp ID: G-3012-R2-VOST PAIR
Inj Date : 07-APR-2006 14:17
Operator : 22980 Inst ID: mx.i
Smp Info : H2G991AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 18-Apr-2006 14:54 tajh Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 3 1,4 Dichlorobenzene-d4	10.748	579538	10.000

	CONCENTRATIONS			QUANT			
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug)	QUAL	LIBRARY	LIB ENTRY	CPND #
Cyclotetrasiloxane, octamethyl-				CAS #: 556-67-2			
9.240	543076	9.37084367	0.23427	90	NIST02.l	115616	3
Benzeneethanamine, N-[(pentafluorophenyl				CAS #: 55429-85-1			
12.446	172883	2.98311759	0.074578	50	NIST02.l	166788	3

4/19/06

Data File: /var/chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

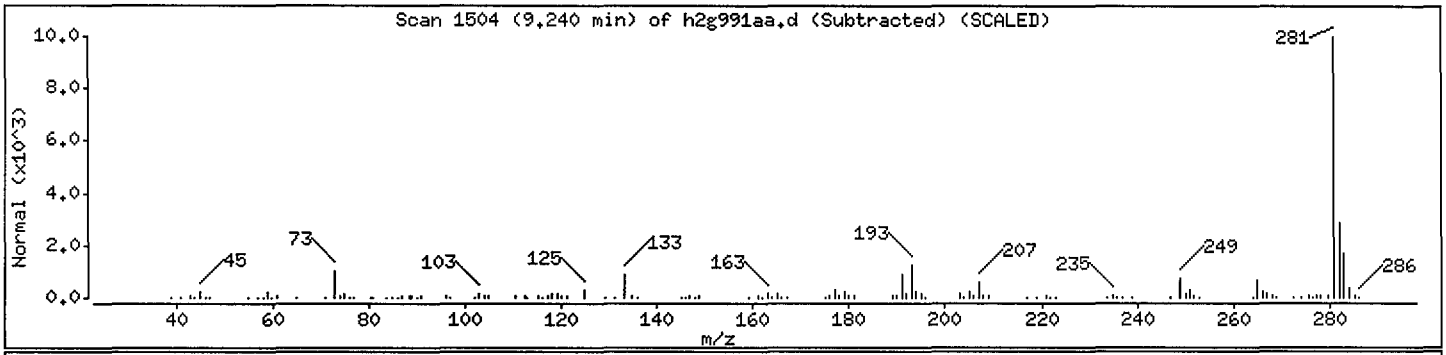
Sample Info: H2G991AA,1,0,,,

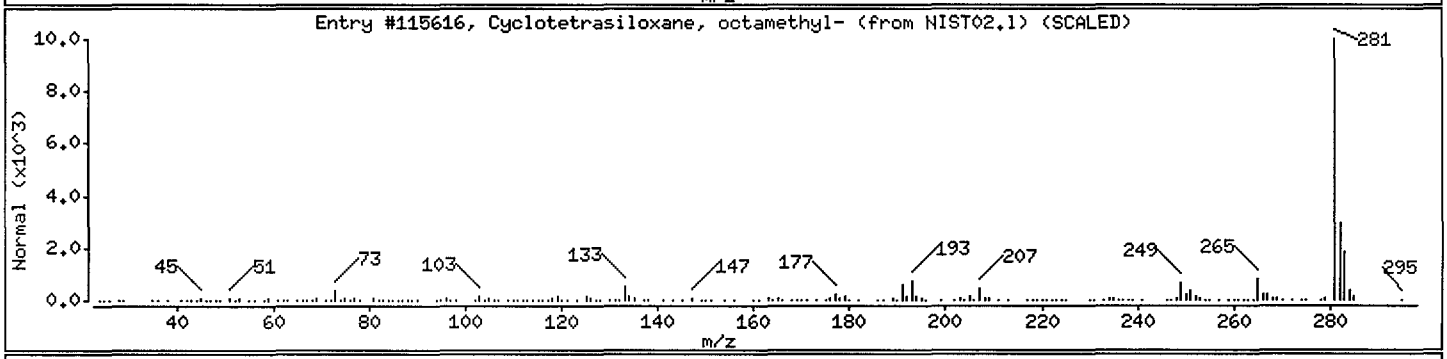
Operator: 22980

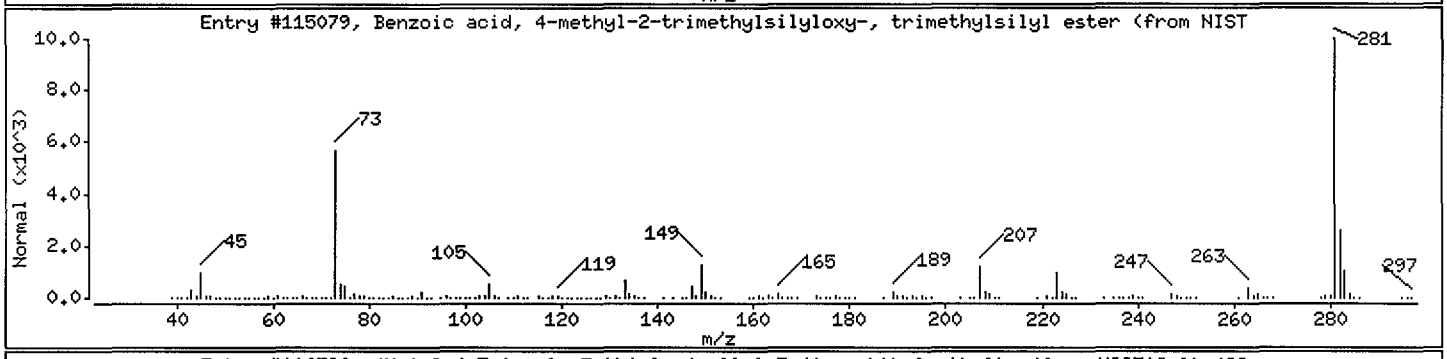
Column phase: J+W 624

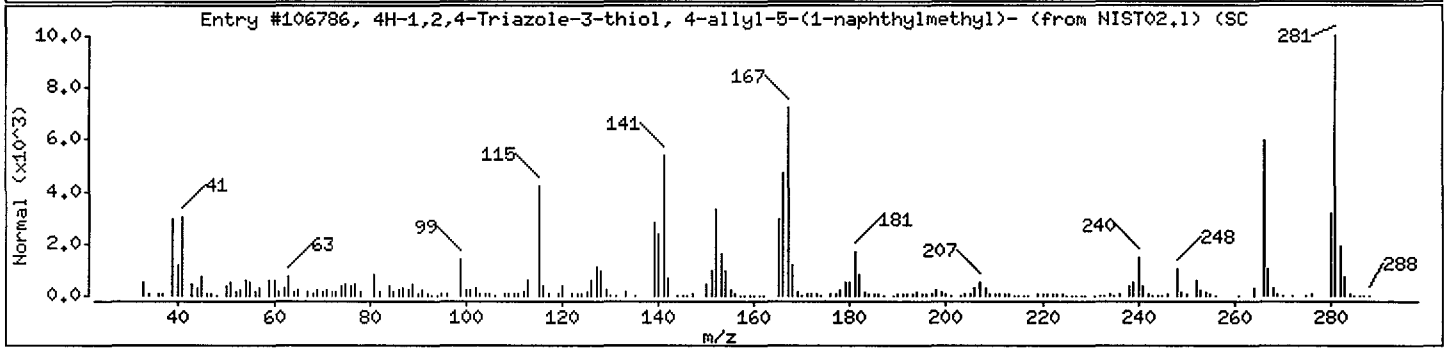
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotetrasiloxane, octamethyl-	556-67-2	NIST02.l	115616	90	C8H24O4Si4	296
Benzoic acid, 4-methyl-2-trimethylsilylo	1000153-59-3	NIST02.l	115079	59	C14H24O3Si2	296
4H-1,2,4-Triazole-3-thiol, 4-allyl-5-(1-	31803-13-1	NIST02.l	106786	43	C16H15N3S	281









Data File: /var/chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

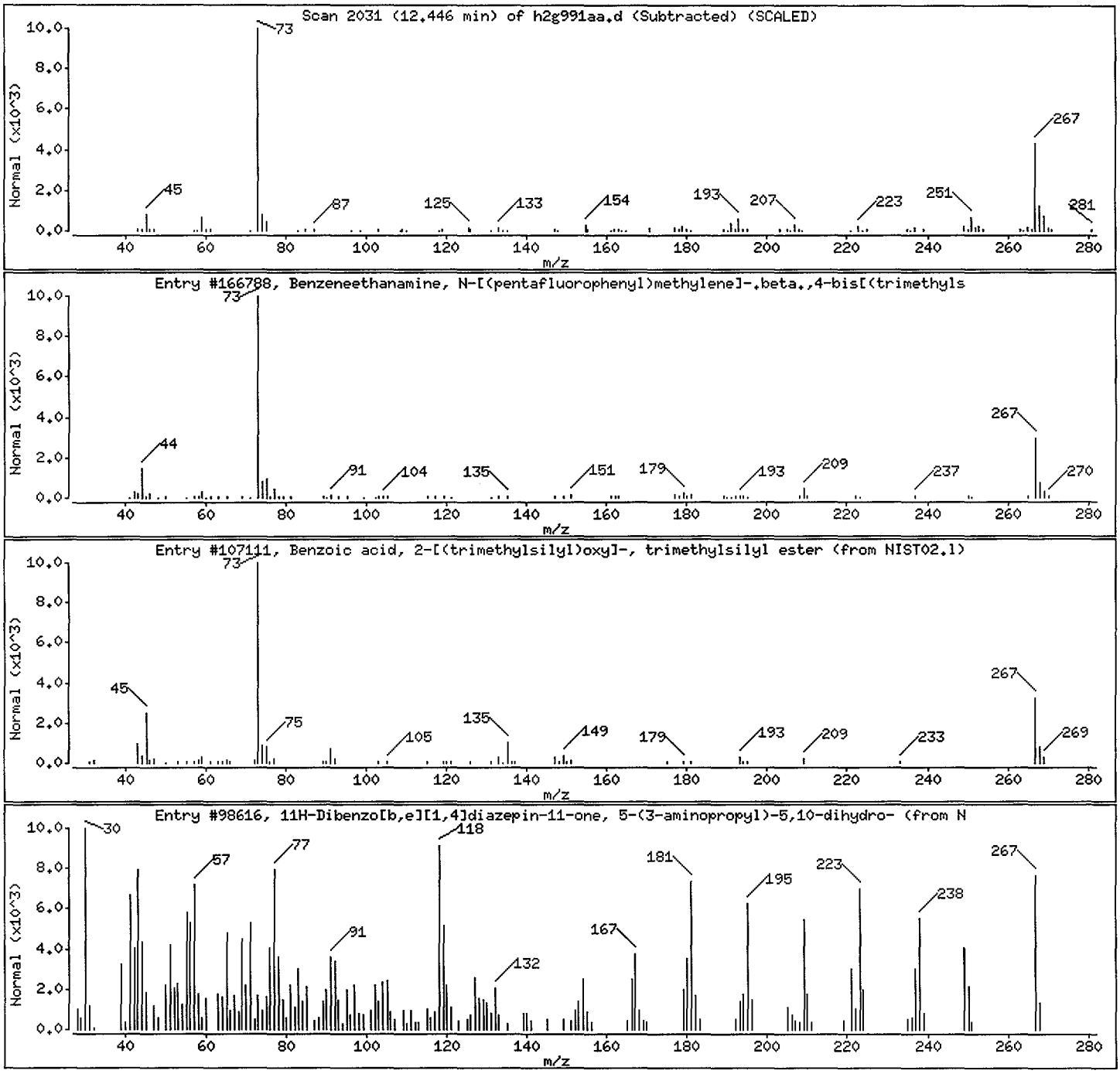
Sample Info: H2G991AA,1,0,,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzeneethanamine, N-[(pentafluorophenyl	55429-85-1	NIST02.l	166788	50	C21H26F5NO2Si2	475
Benzoic acid, 2-[(trimethylsilyl)oxy]-,	3789-85-3	NIST02.l	107111	39	C13H22O3Si2	282
11H-Dibenzo[b,e][1,4]diazepin-11-one, 5-	13450-73-2	NIST02.l	98616	37	C16H17N3O	267



STL Knoxville - ACS

Client Sample ID: G-3013-R2-VOST PAIR #4 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-019 **Work Order #...:** H2HAA1AA **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.094 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	**0.024 J**	**0.025**	**ug**	**0.0066**
Bromomethane	**0.024 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0031 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	**0.012**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	**0.021 J**	**0.025**	**ug**	**0.010**
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	**0.018 J**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	**0.010 J**	**0.025**	**ug**	**0.0050**
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3013-R2-VOST PAIR #4 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-019 **Work Order #...:** H2HAA1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.0074 J**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	108	(50 - 134)
1,2-Dichloroethane-d4	102	(50 - 134)
Toluene-d8	94	(57 - 127)
Bromofluorobenzene	88	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3013-R2-VOST PAIR #4 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #: H6D030169-019 **Work Order #:** H2HAA1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d
Report Date: 07-Apr-2006 16:15

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040706.b/h2haa1aa.d
Lab Smp Id: H2HAA1AA Client Smp ID: G-3013-R2-VOST PAIR
Inj Date : 07-APR-2006 15:57
Operator : 22980 Inst ID: mz.i
Smp Info : H2HAA1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 13:06 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.674	5.676	(1.000)	761687	10.0000	
* 2 Chlorobenzene-d5	119	8.941	8.937	(1.000)	173301	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.496	11.492	(1.000)	232613	10.0000	
$ 4 Dibromofluoromethane	113	4.835	4.831	(0.852)	131497	10.7741	0.26935
$ 5 1,2-Dichloroethane-d4	65	5.242	5.238	(0.924)	107316	10.1681	0.25420
$ 6 Toluene-d8	98	7.463	7.465	(0.835)	716004	9.40310	0.23508
$ 7 4-Bromofluorobenzene	95	10.127	10.129	(0.881)	206585	8.80616	0.22015
10 Dichlorodifluoromethane	85	1.014	1.016	(0.179)	7527	0.40488	0.010122
11 Chloromethane (spcc)	50	1.124	1.126	(0.198)	54805	0.70936	0.017734
15 Bromomethane	94	1.416	1.418	(0.250)	1127	0.97299	0.024325
16 Chloroethane	64	1.519	1.485	(0.268)	10725	0.75502	~~0.018875~~
18 Trichlorofluoromethane	101	1.671	1.673	(0.295)	2777	0.11929	0.0029823
22 Acetone	43	2.128	2.123	(0.375)	2334	3.75645	0.093911
23 *Iodomethane	142	2.188	2.184	(0.386)	515	0.54816	0.013704
24 Carbon Disulfide	76	2.231	2.239	(0.393)	7235	0.12382	0.0030955
27 Methylene Chloride	84	2.511	2.513	(0.442)	4036	0.31690	0.0079225

4-14-06

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Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d
Report Date: 07-Apr-2006 16:15

ZW 4.14.06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug)
39	*THF	42	4.537	4.532	(0.800)	1270	0.70325	0.017581
44	Benzene	78	5.297	5.305	(0.934)	9057	0.12058	0.0030146
45	1,2-Dichloroethane	62	5.674	5.335	(1.000)	12720	0.79970	~~0.019992~~
46	Trichloroethene	130	6.118	6.114	(1.078)	6230	0.29489	0.0073723
53	4-Methyl-2-pentanone	43	7.463	7.386	(1.315)	5759	0.86591	~~0.021648~~
54	Toluene (ccc)	91	7.536	7.532	(0.843)	7922	0.08033	0.0020082
55	trans-1,3-Dichloropropene	75	8.120	7.793	(0.908)	2037	0.75451	~~0.018863~~
61	Chlorodibromomethane	129	8.357	8.353	(0.935)	671	0.84470	0.021117
63	Chlorobenzene (spcc)	112	8.965	8.961	(1.003)	25522	0.46364	0.011591
65	Ethylbenzene (ccc)	106	9.233	9.101	(1.033)	1699	0.04792	0~~.0011981~~
67	o-Xylene	106	9.233	9.612	(1.033)	1699	0.04488	0~~.0011220~~
69	Bromoform (spcc)	173	9.793	9.782	(1.095)	488	0.97766	0.024441
74	1,2,3-Trichloropropane	110	10.486	10.324	(0.912)	583	0.29124	0.~~0072810~~
83	1,3-Dichlorobenzene	146	11.527	11.395	(1.003)	2206	0.05418	0~~.0013545~~
85	1,4-Dichlorobenzene	146	11.527	11.528	(1.003)	2206	0.05825	0.0014562

Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d
Report Date: 07-Apr-2006 16:15

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2haa1aa.d
Lab Smp Id: H2HAA1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Calibration Date: 07-APR-2006
Calibration Time: 07:35
Client Smp ID: G-3013-R2-VOST PAIR
Level: LOW
Sample Type: AIR
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	952581	476290	1905162	761687	-20.04
2 Chlorobenzene-d5	164101	82050	328202	173301	5.61
3 1,4 Dichlorobenze	204390	102195	408780	232613	13.81

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.68	5.18	6.18	5.67	-0.03
2 Chlorobenzene-d5	8.94	8.44	9.44	8.94	0.05
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.50	0.04

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

Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d
Report Date: 07-Apr-2006 16:15

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030169
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: H2HAA1AA
Client Smp ID: G-3013-R2-VOST PAIR
Level: LOW
Operator: 22980
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allcmpds.spk
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

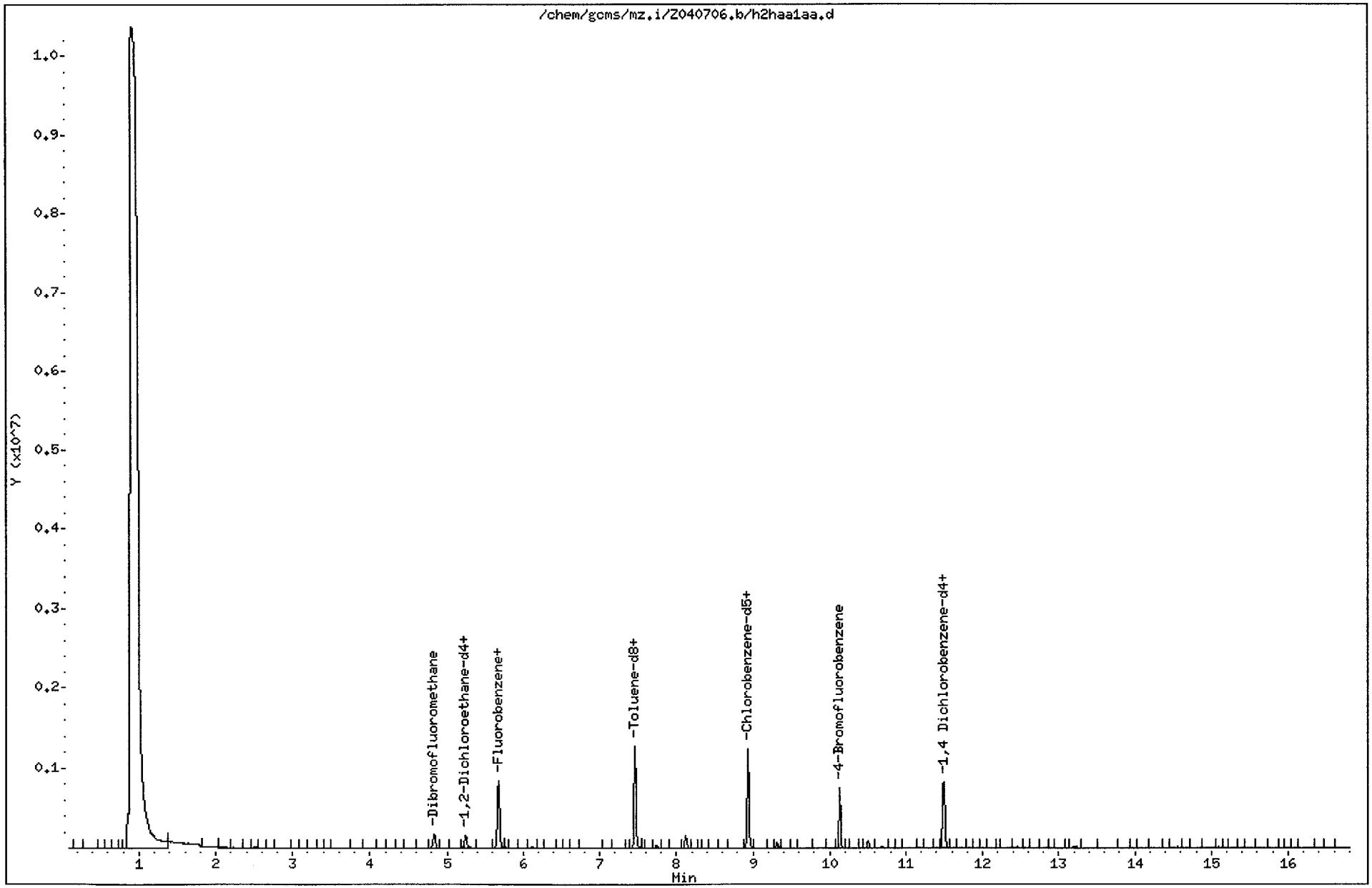
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.26935	107.74	50-150
$ 5 1,2-Dichloroethane	0.25000	0.25420	101.68	50-150
$ 6 Toluene-d8	0.25000	0.23508	94.03	50-150
$ 7 4-Bromofluorobenze	0.25000	0.22015	88.06	50-150

Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d
Date : 07-APR-2006 15:57
Client ID: G-3013-R2-VOST PAIR
Sample Info: H2HAA1AA,1,0,,

Instrument: mz.i

Operator: 22980
Column diameter: 0.18

Column phase: J+W 624



Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

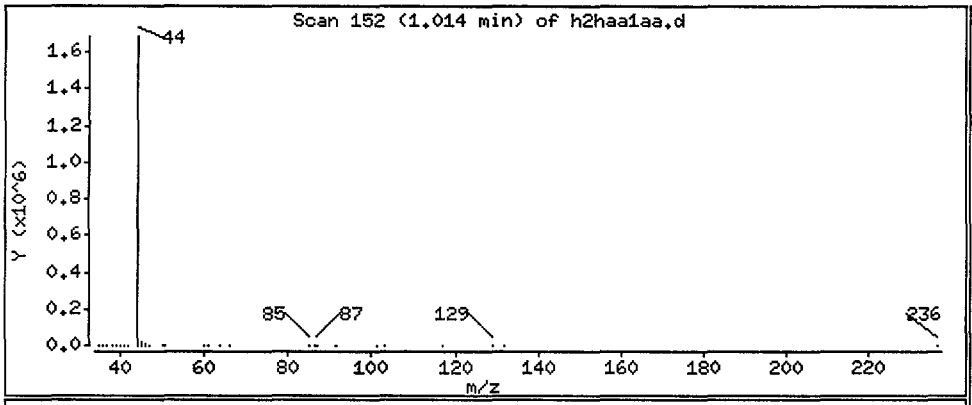
Operator: 22980

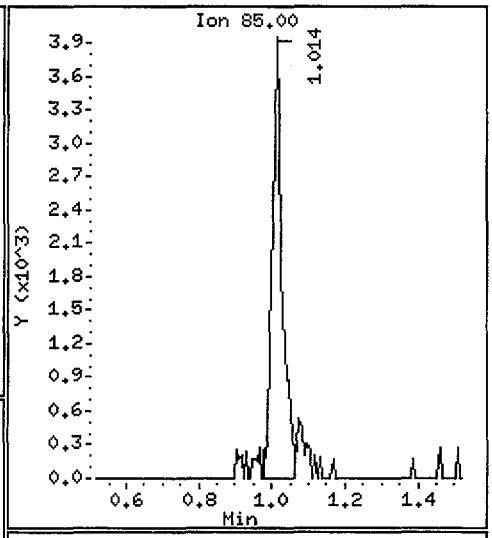
Column phase: J+W 624

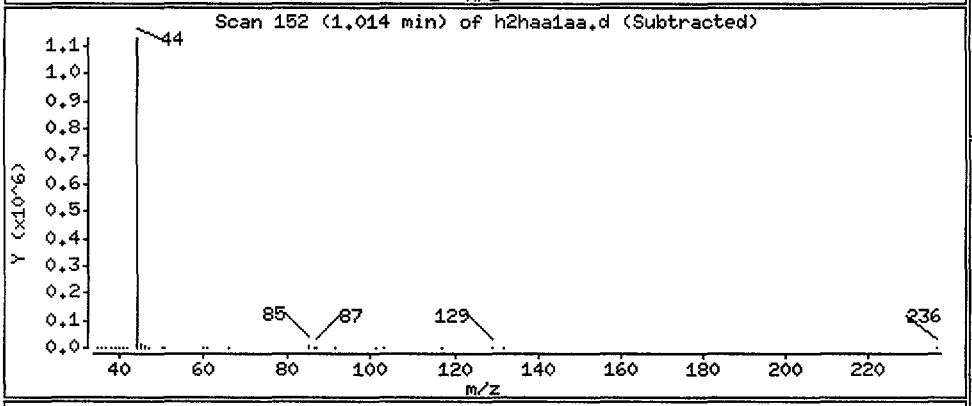
Column diameter: 0.18

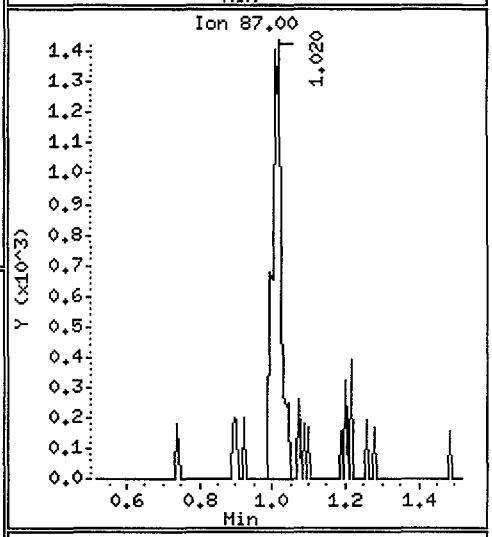
10 Dichlorodifluoromethane

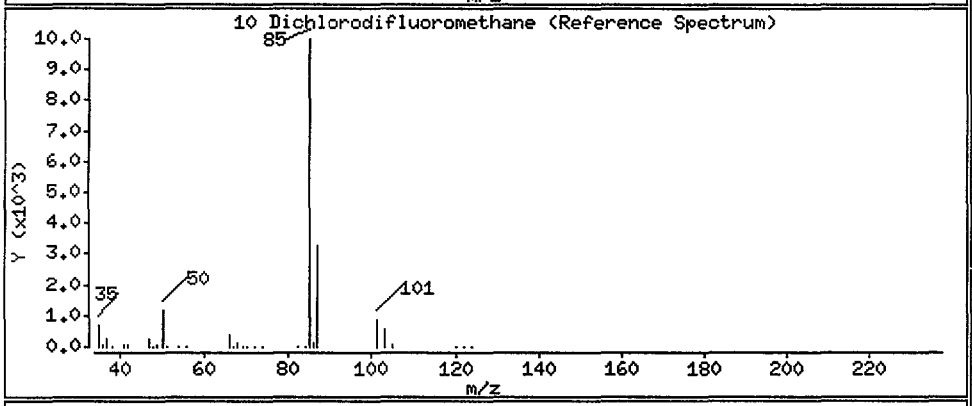
Concentration: 0.010122 ug

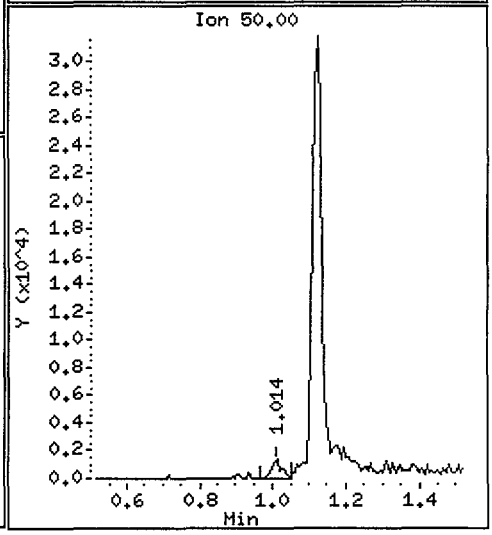


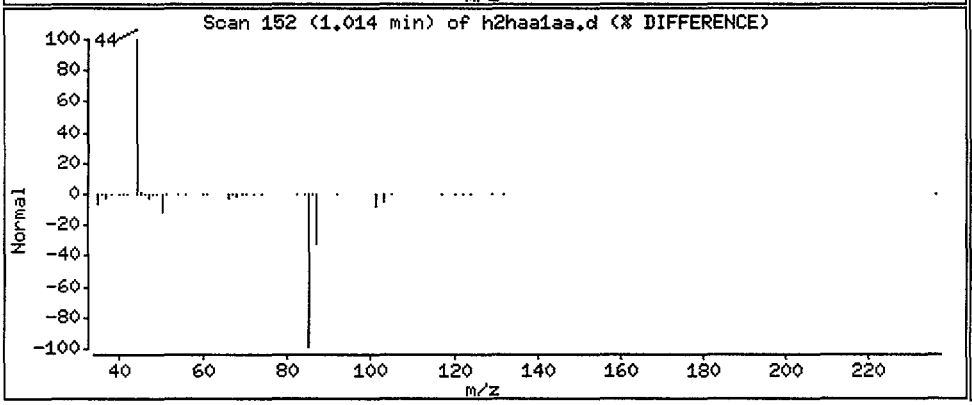












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

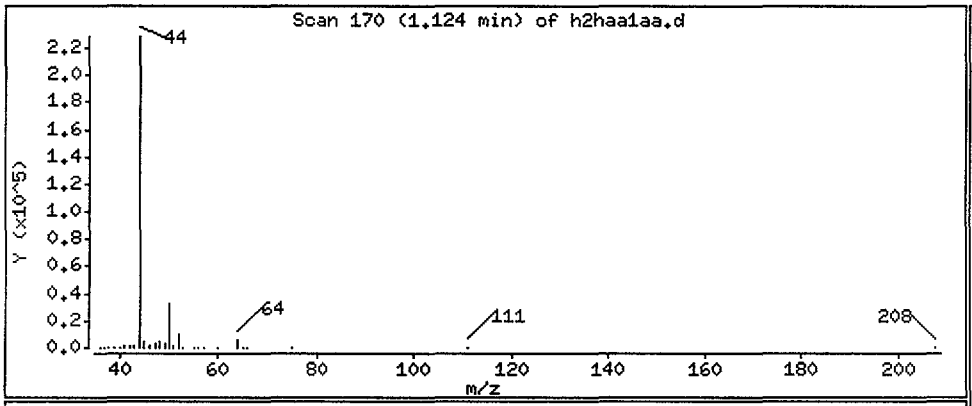
Operator: 22980

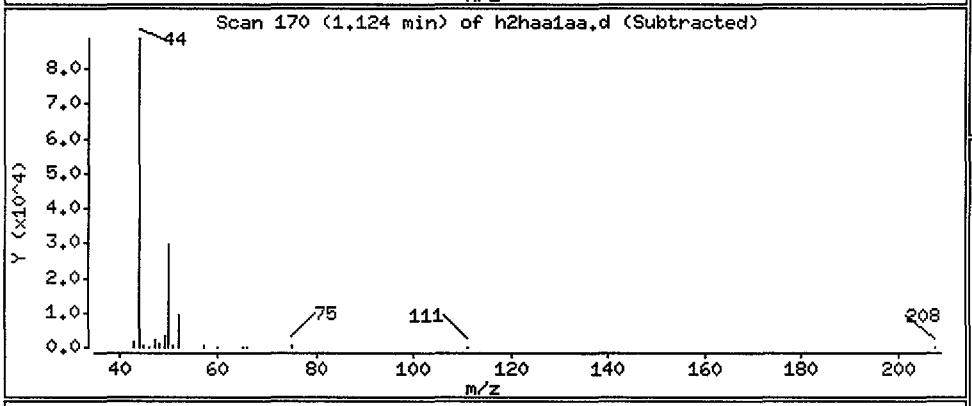
Column phase: J+W 624

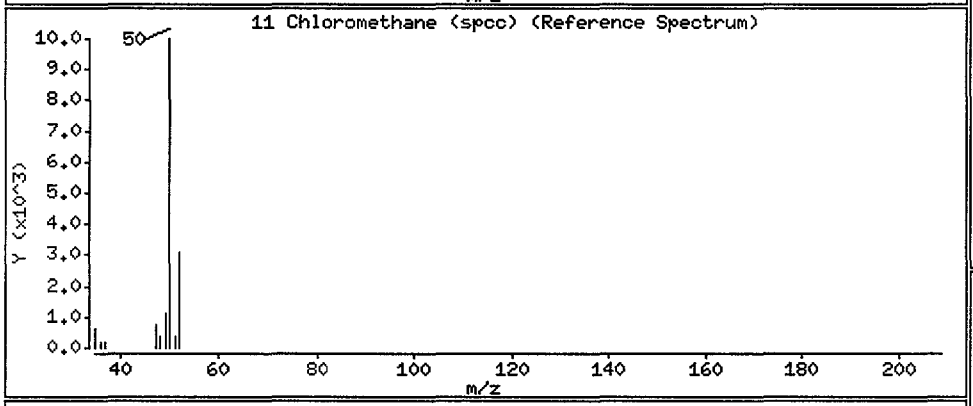
Column diameter: 0.18

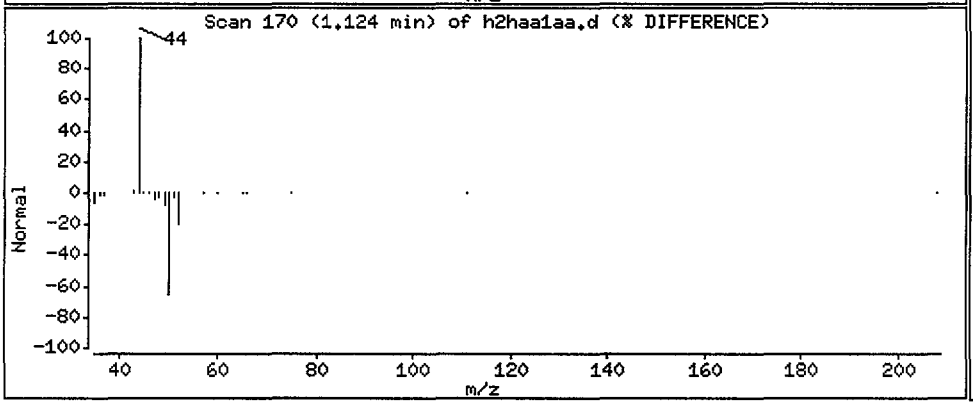
11 Chloromethane (spcc)

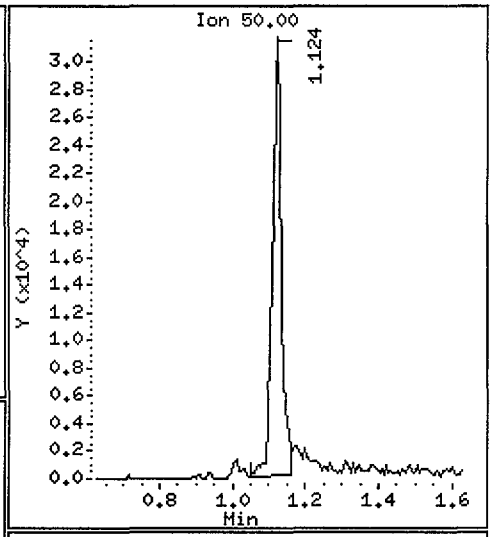
Concentration: 0.017734 ug

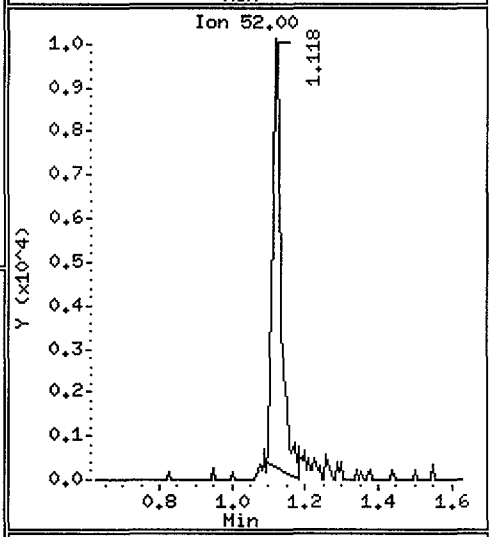


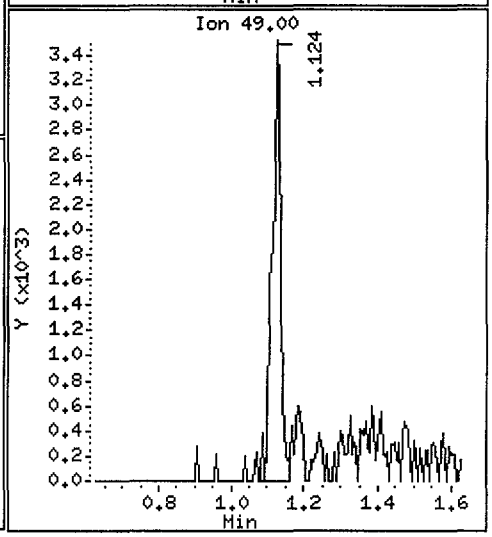












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

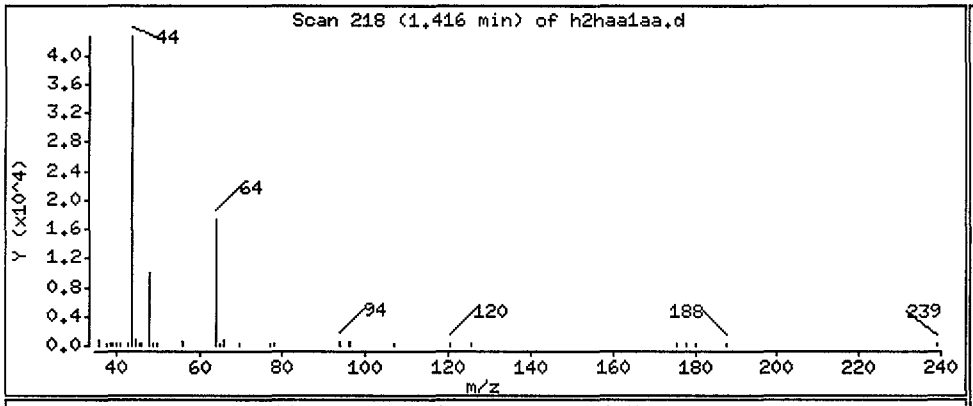
Operator: 22980

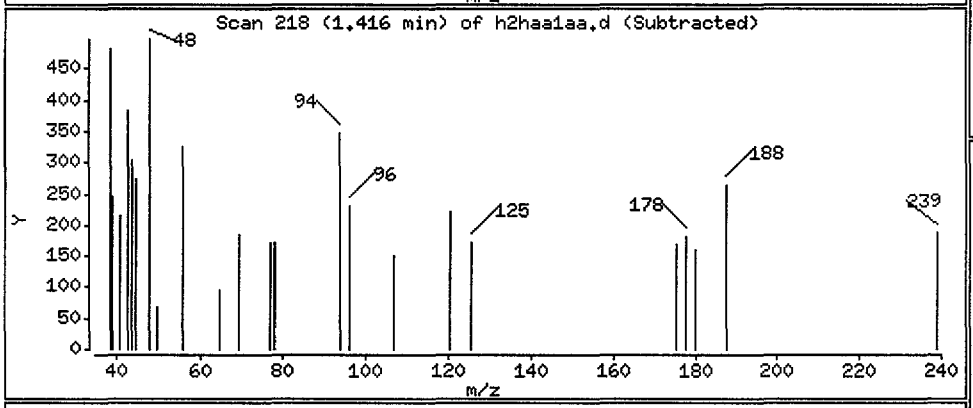
Column phase: J+W 624

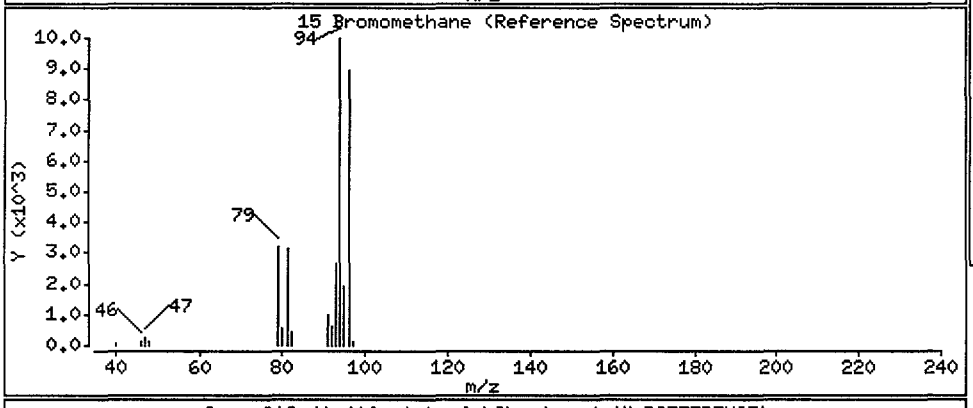
Column diameter: 0.18

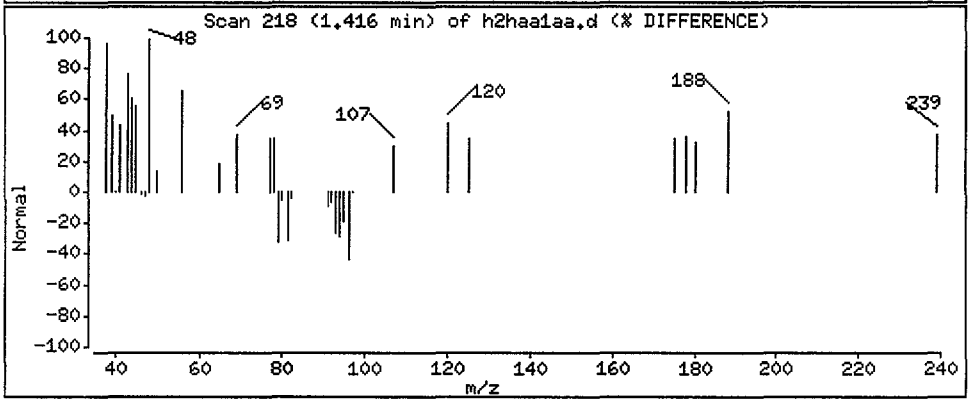
15 Bromomethane

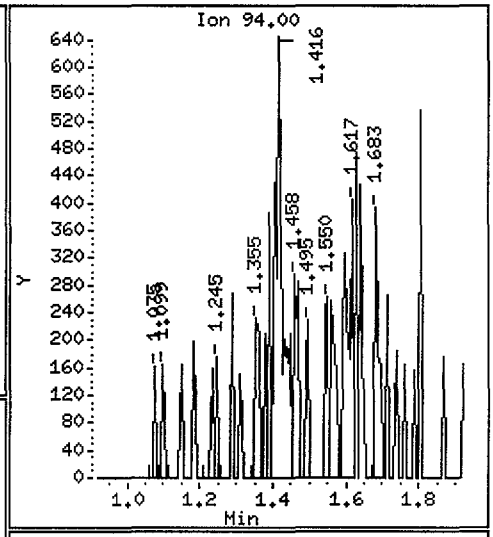
Concentration: 0.024325 ug

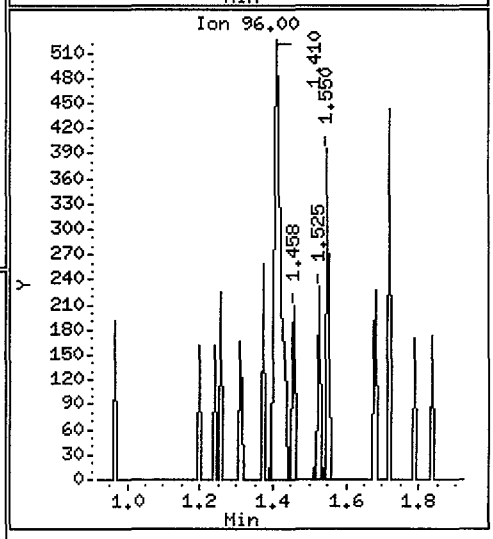












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

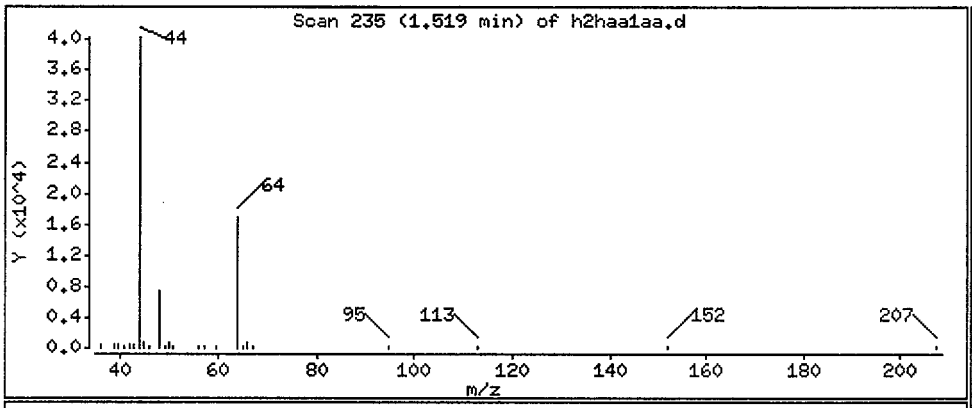
Operator: 22980

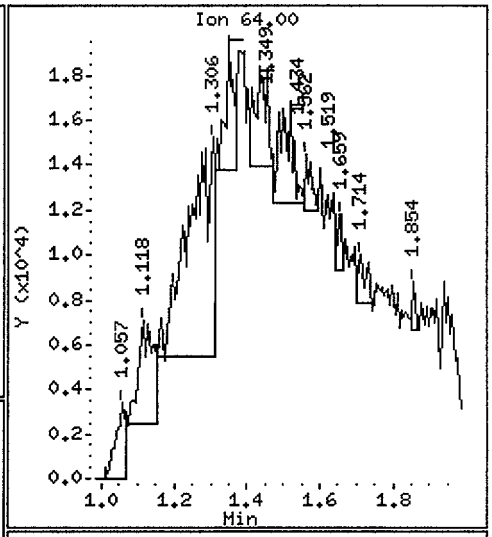
Column phase: J+W 624

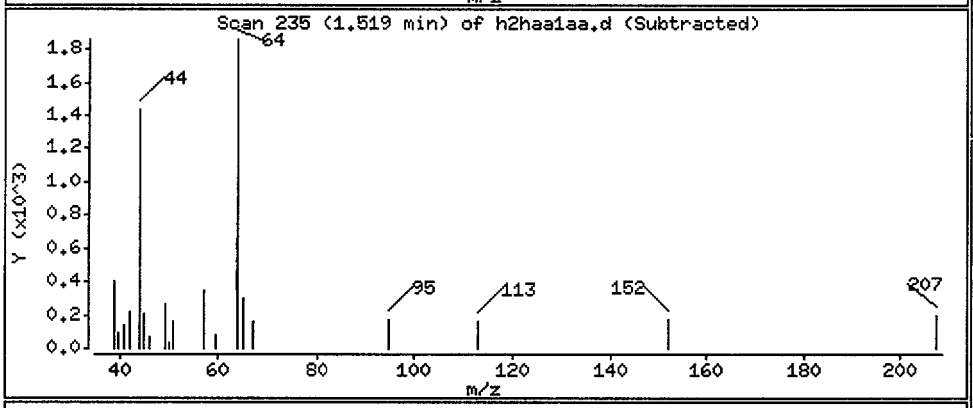
Column diameter: 0.18

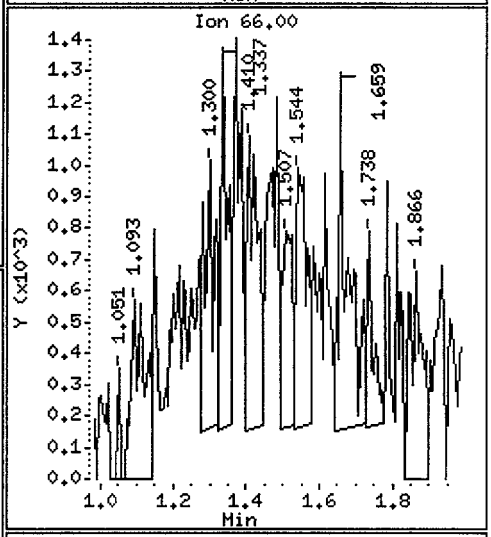
16 Chloroethane

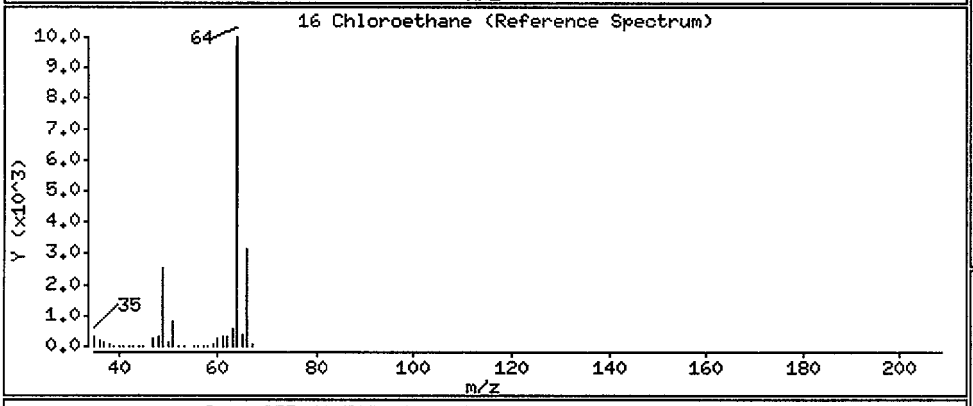
Concentration: 0.018875 ug

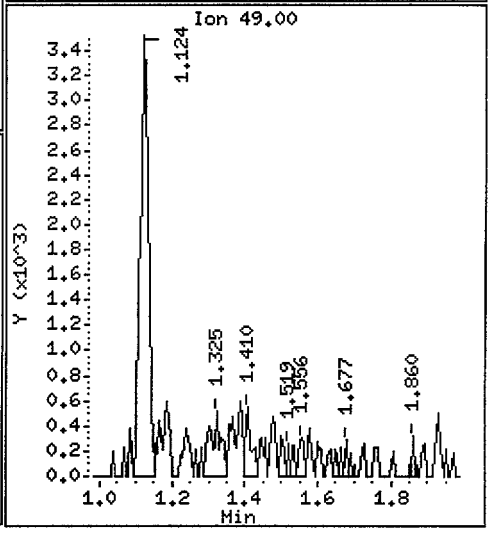


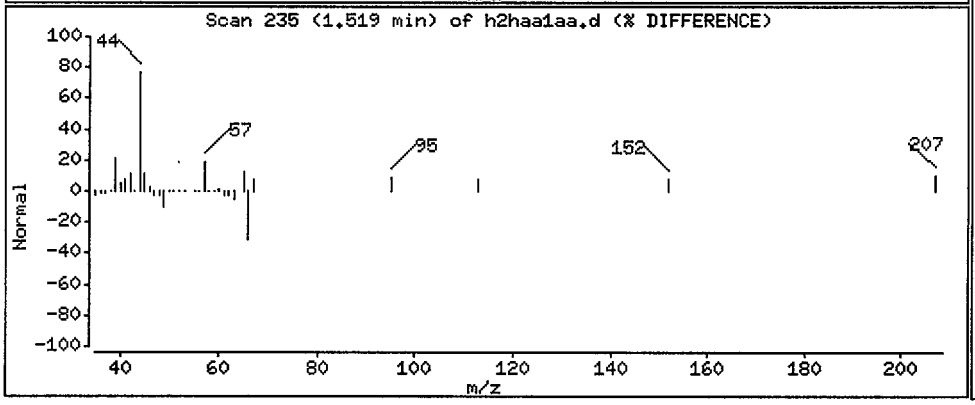












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

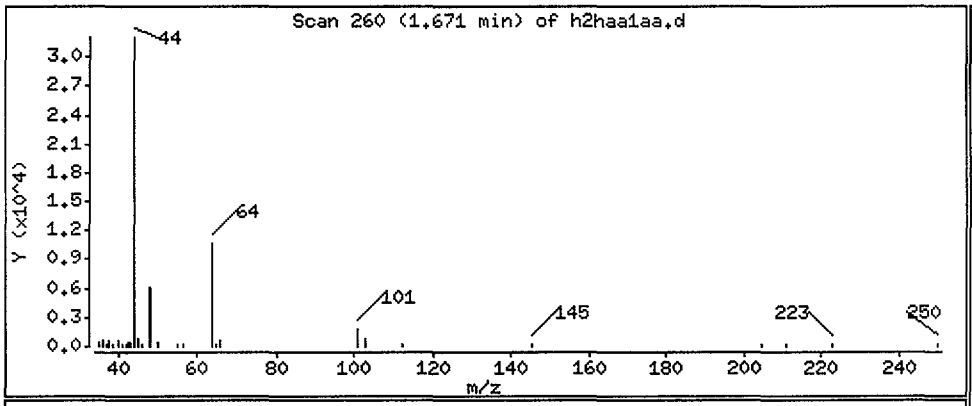
Operator: 22980

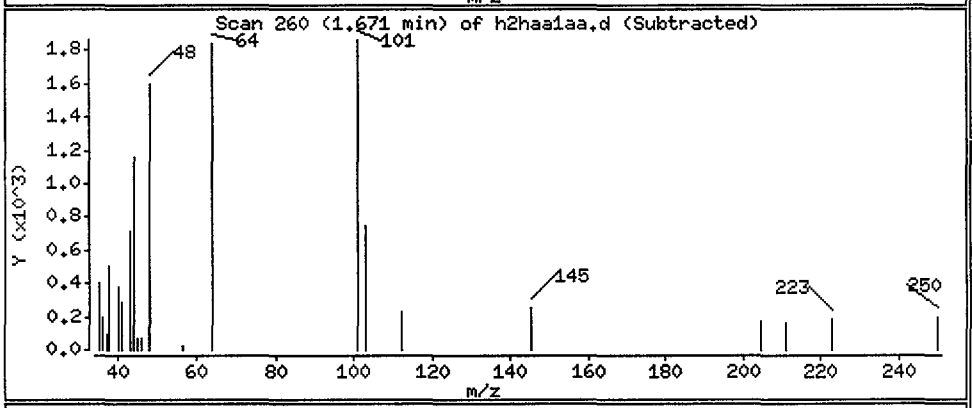
Column phase: J+W 624

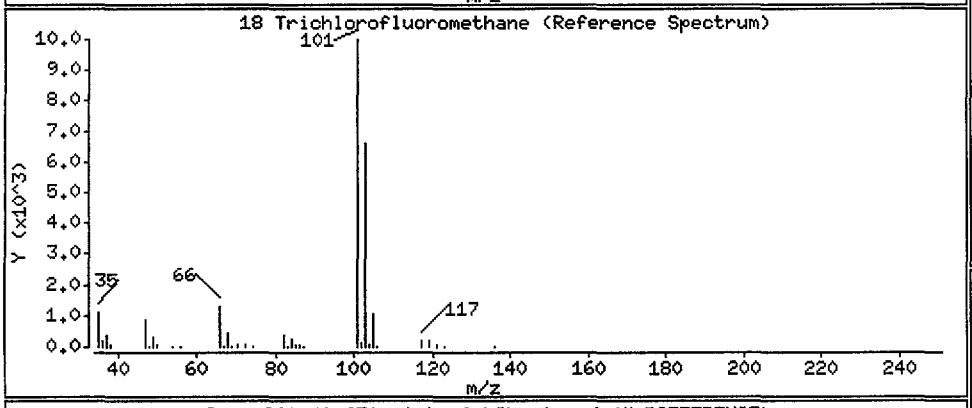
Column diameter: 0.18

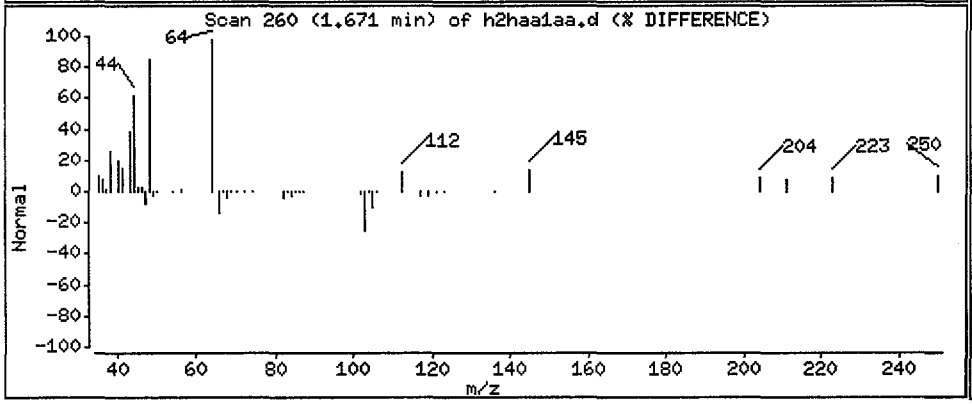
18 Trichlorofluoromethane

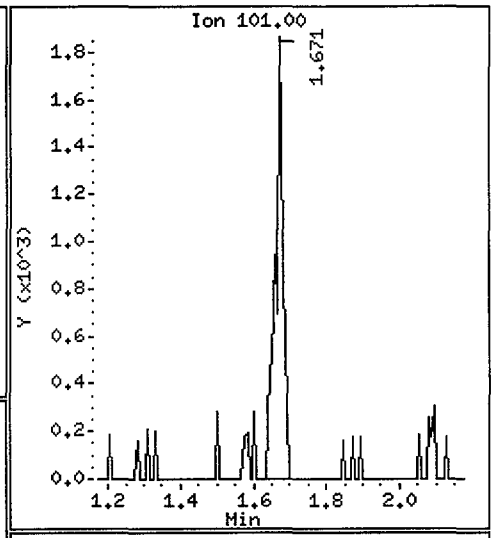
Concentration: 0.0029823 ug

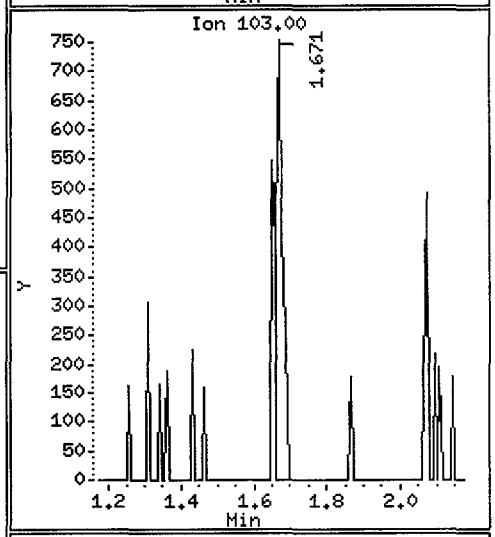


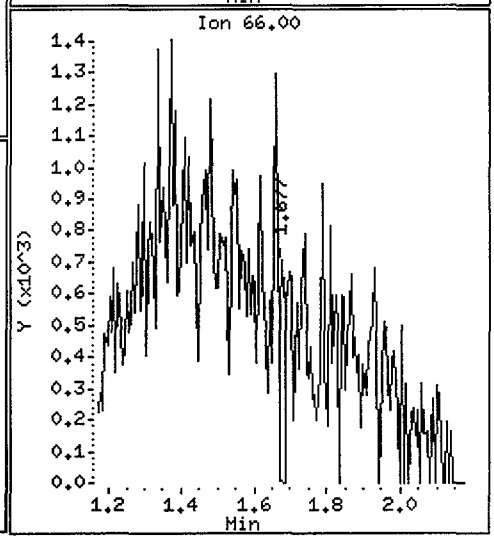












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

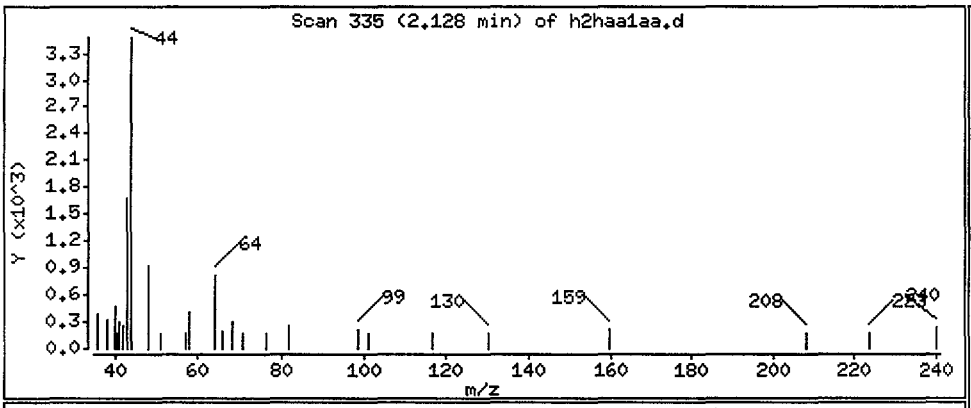
Operator: 22980

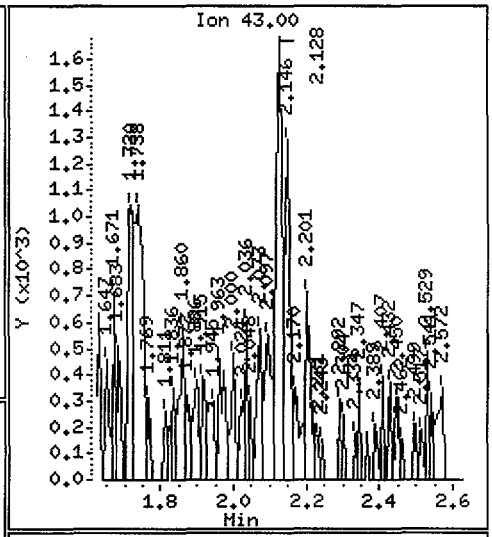
Column phase: J+W 624

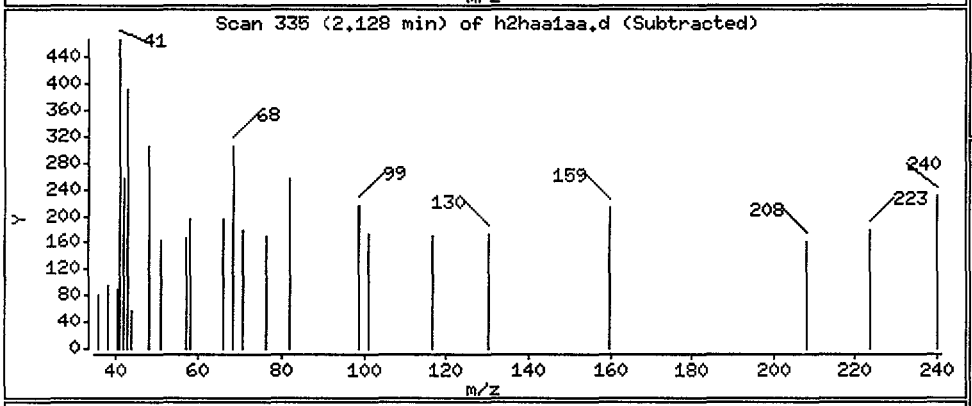
Column diameter: 0.18

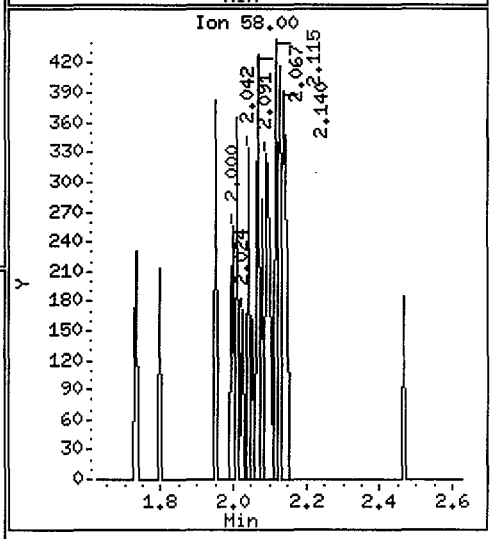
22 Acetone

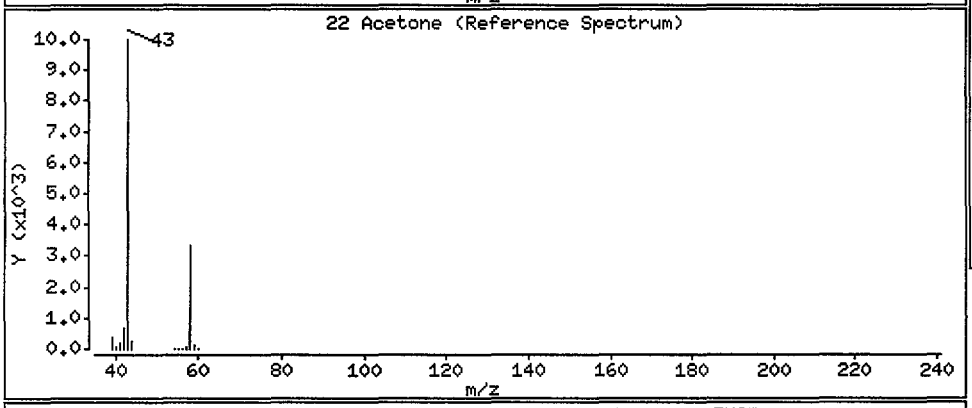
Concentration: 0.093911 ug

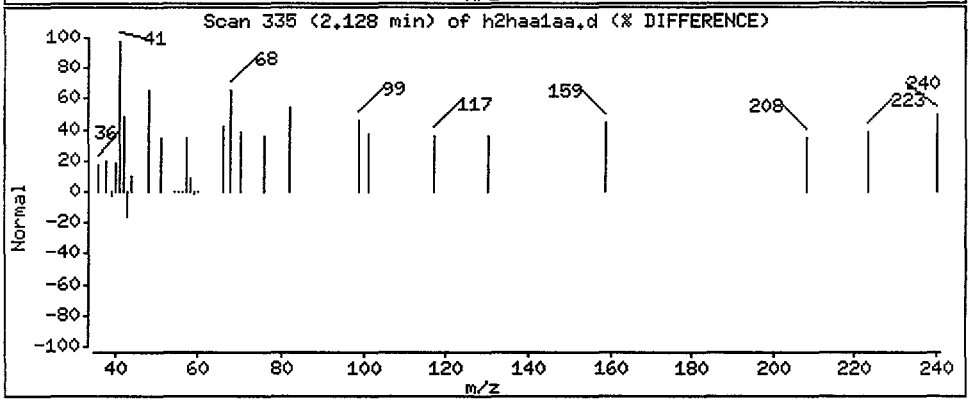












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

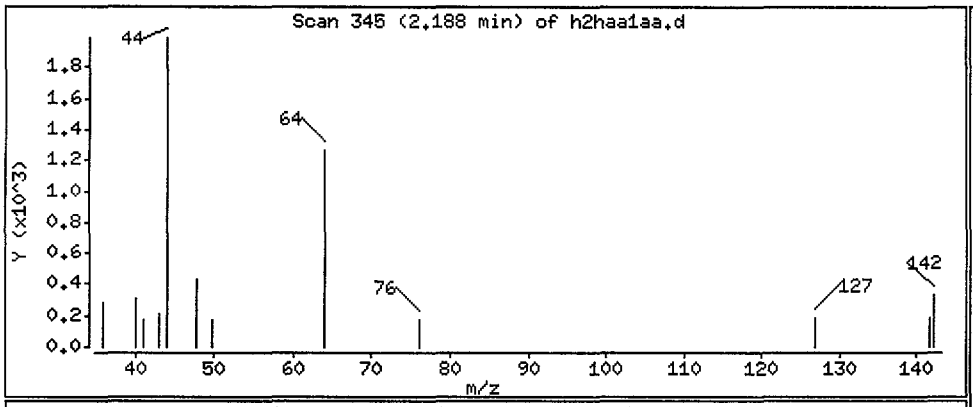
Operator: 22980

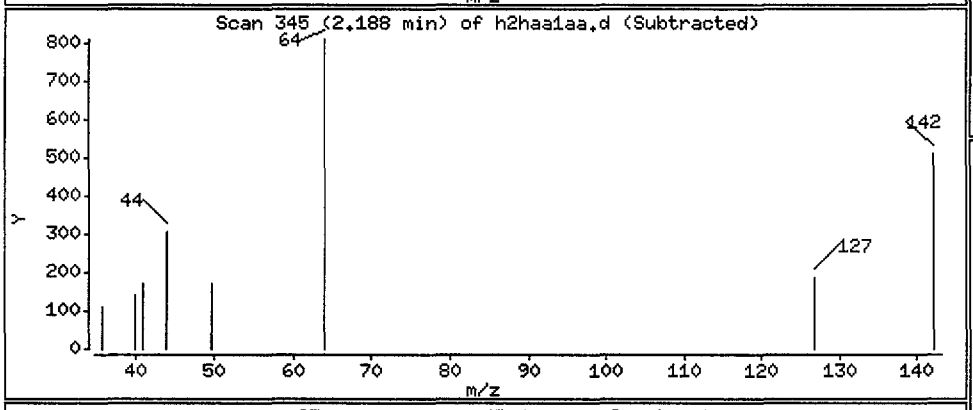
Column phase: J+W 624

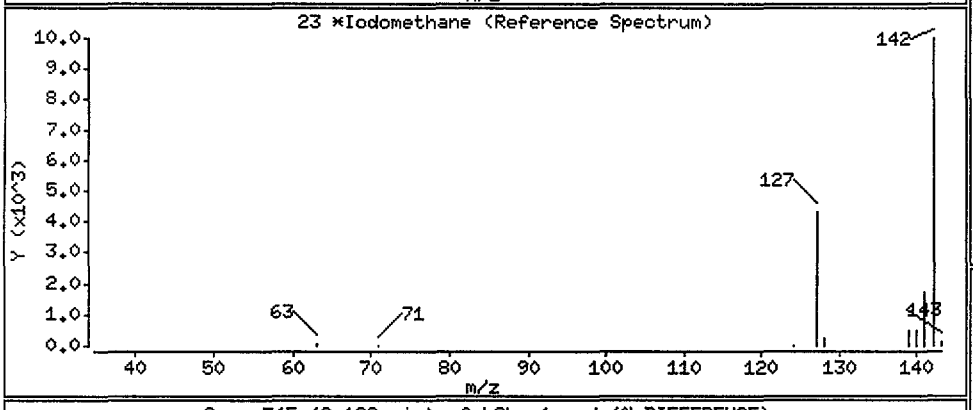
Column diameter: 0.18

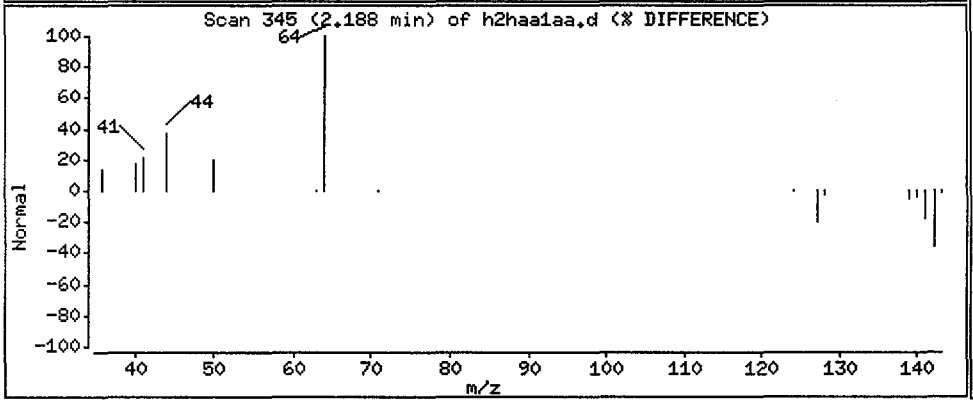
23 *Iodomethane

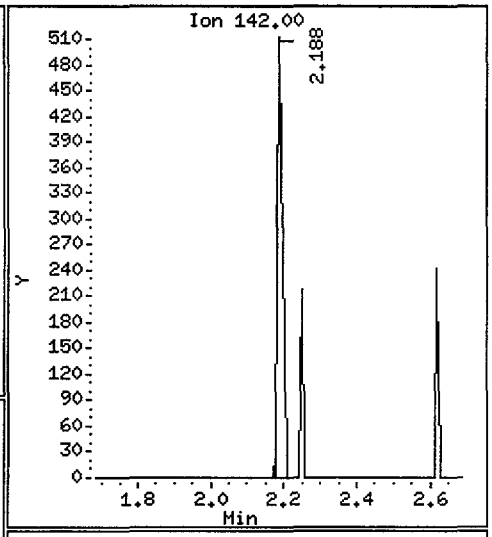
Concentration: 0.013704 ug

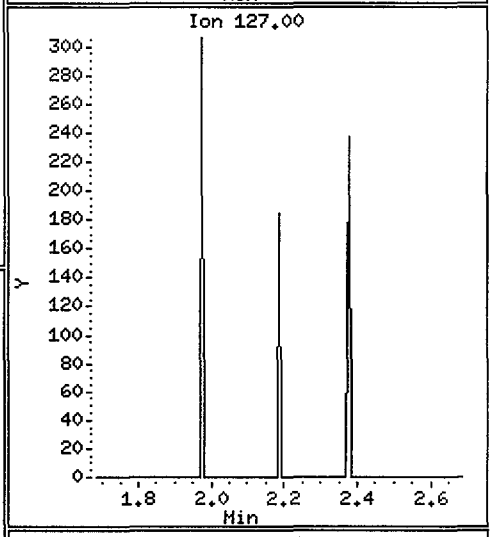


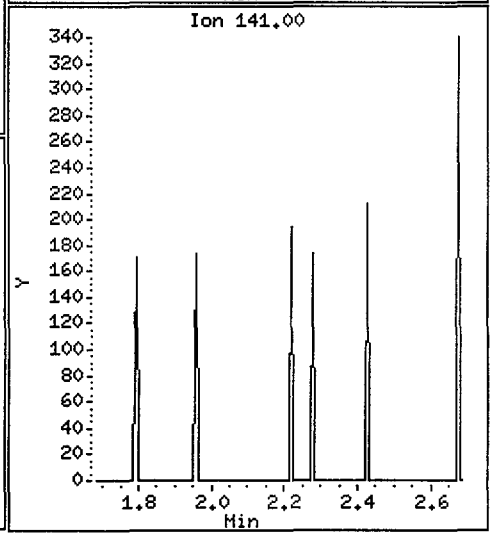












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

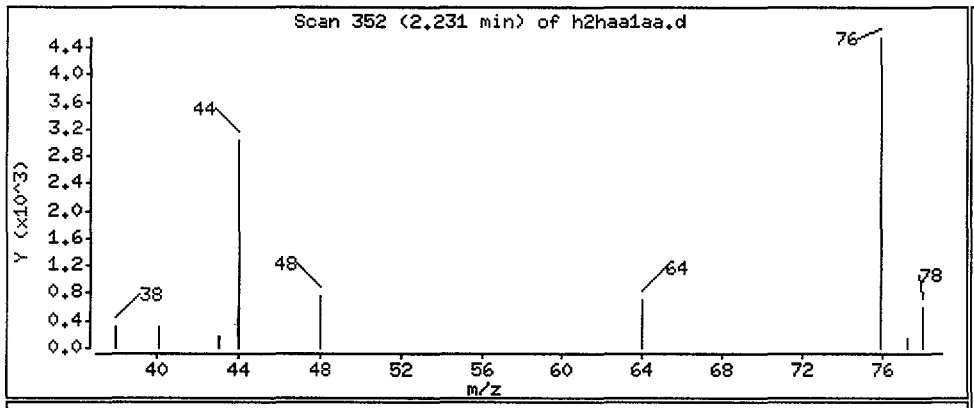
Operator: 22980

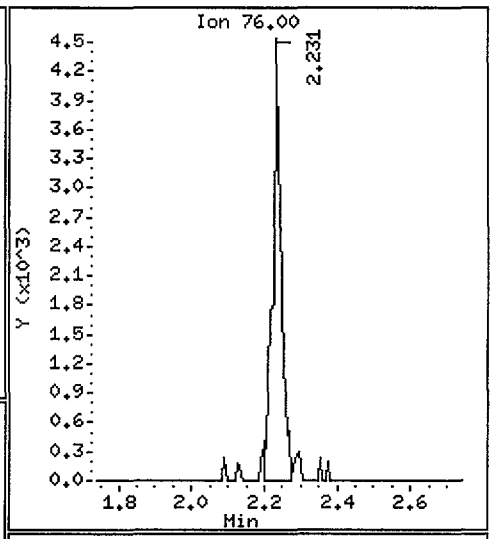
Column phase: J+W 624

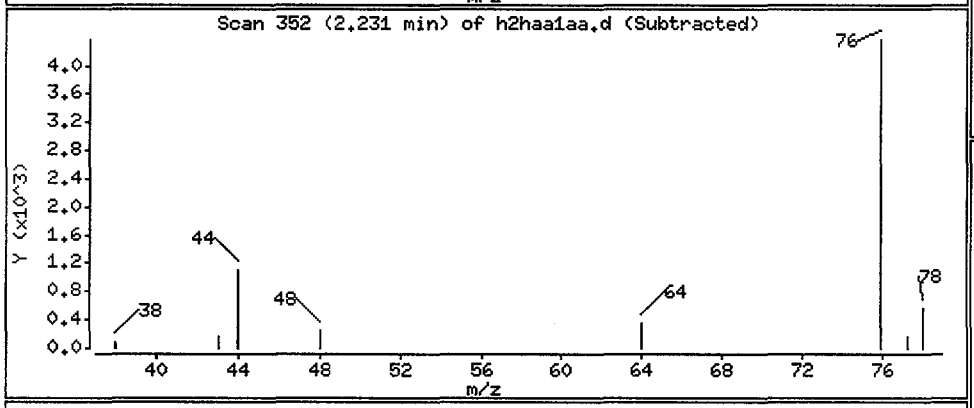
Column diameter: 0.18

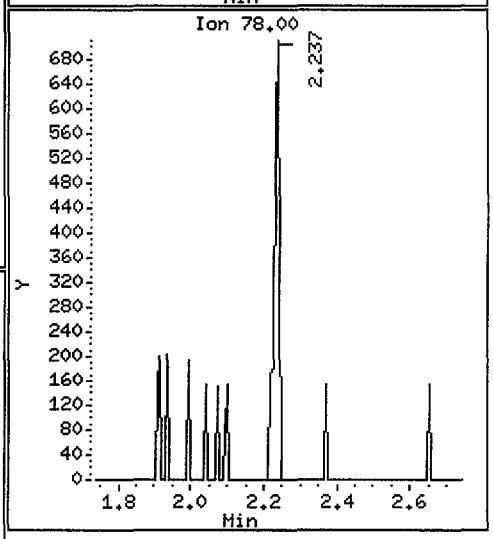
24 Carbon Disulfide

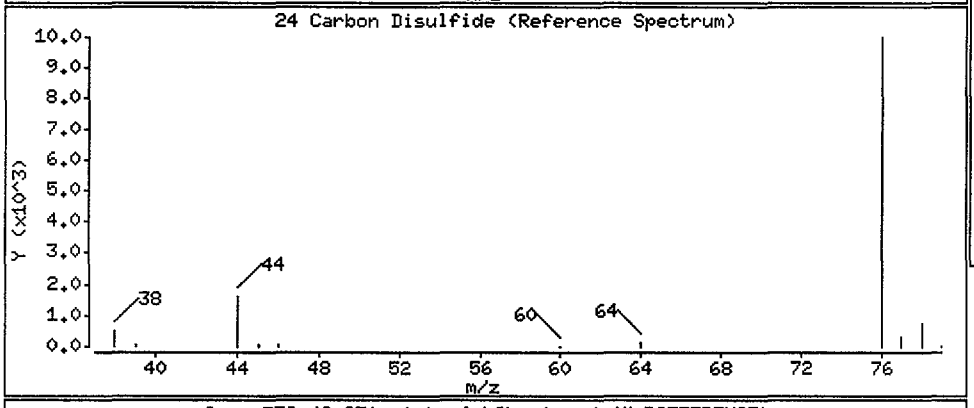
Concentration: 0.0030955 ug

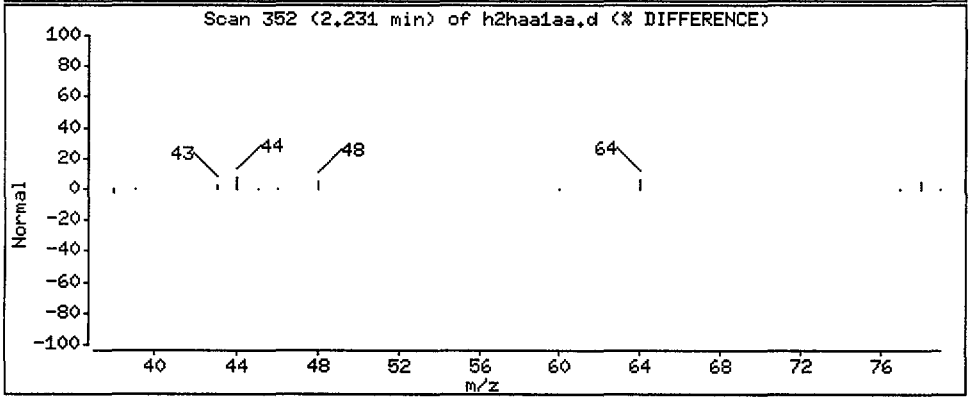












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

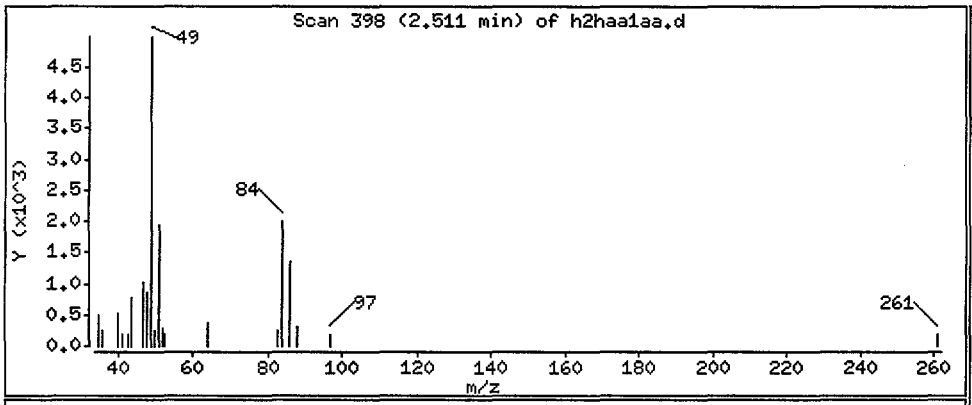
Operator: 22980

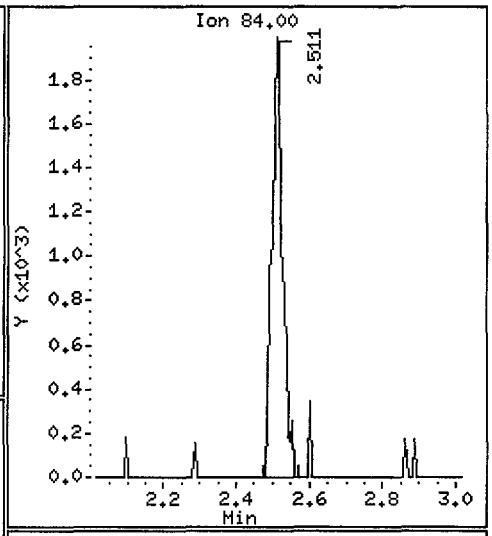
Column phase: J+W 624

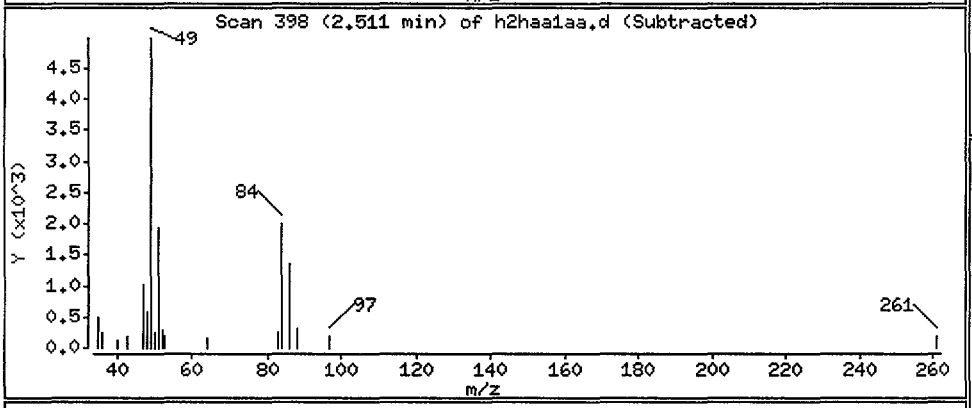
Column diameter: 0.18

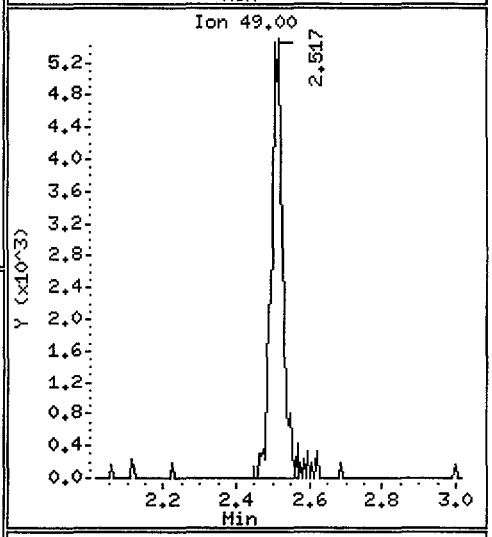
27 Methylene Chloride

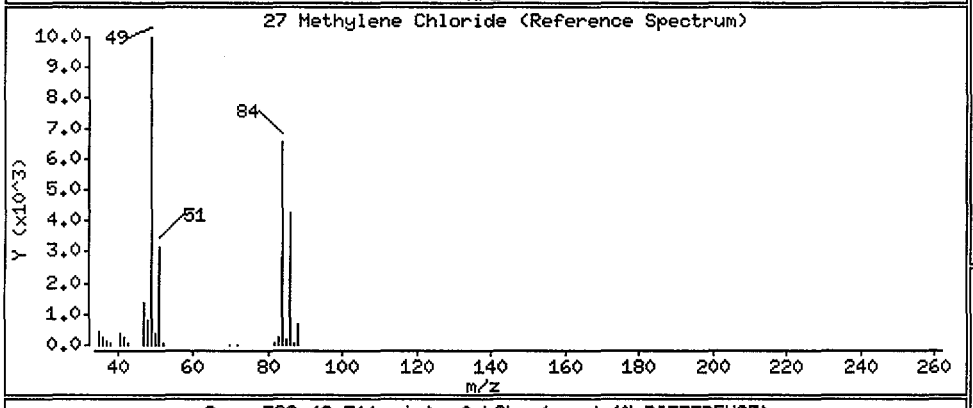
Concentration: 0.0079225 ug

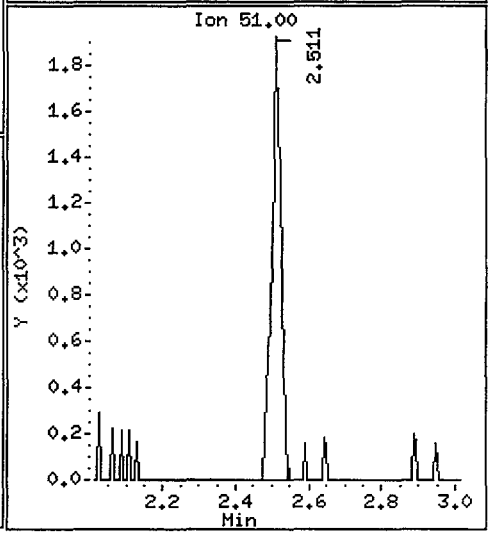


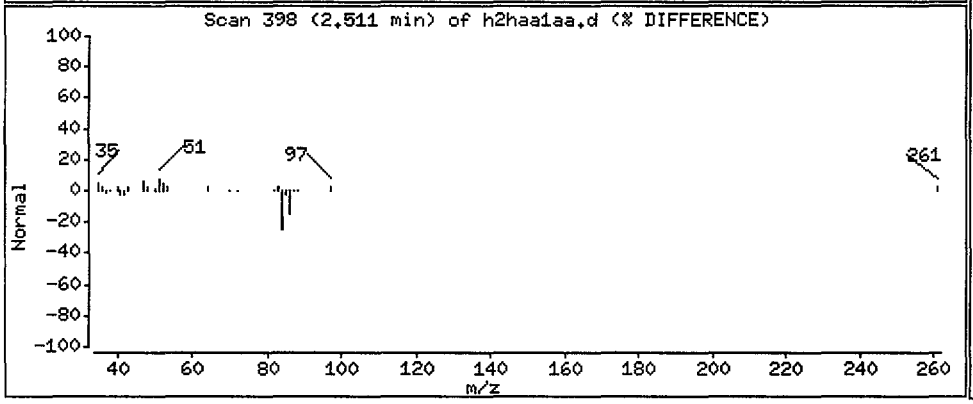












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

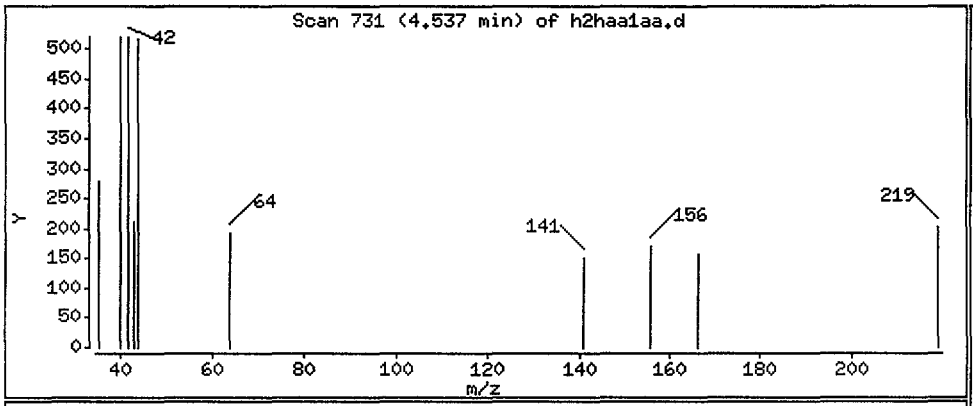
Operator: 22980

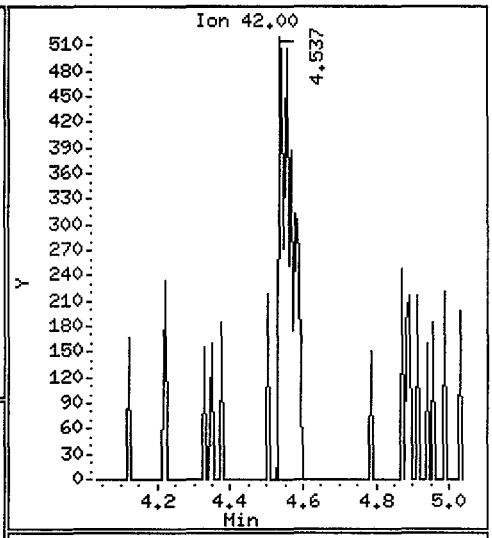
Column phase: J+W 624

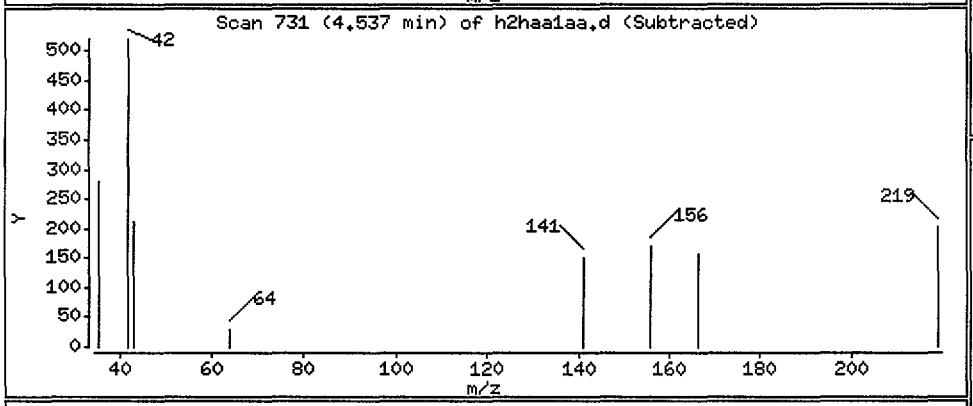
Column diameter: 0.18

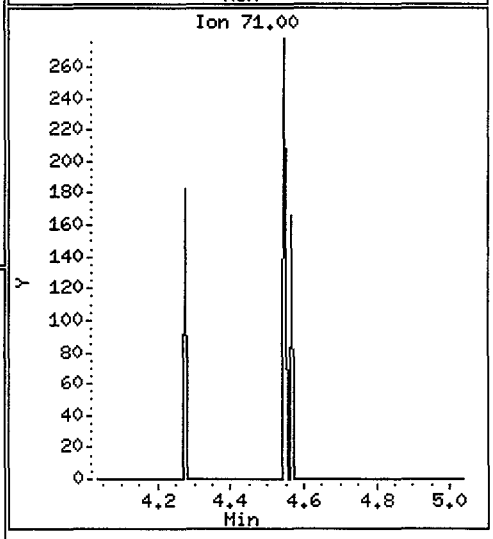
39 *THF

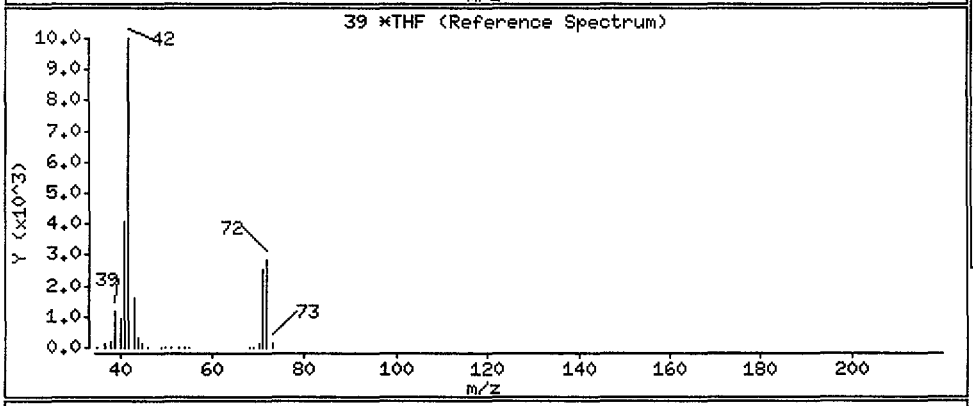
Concentration: 0.017581 ug

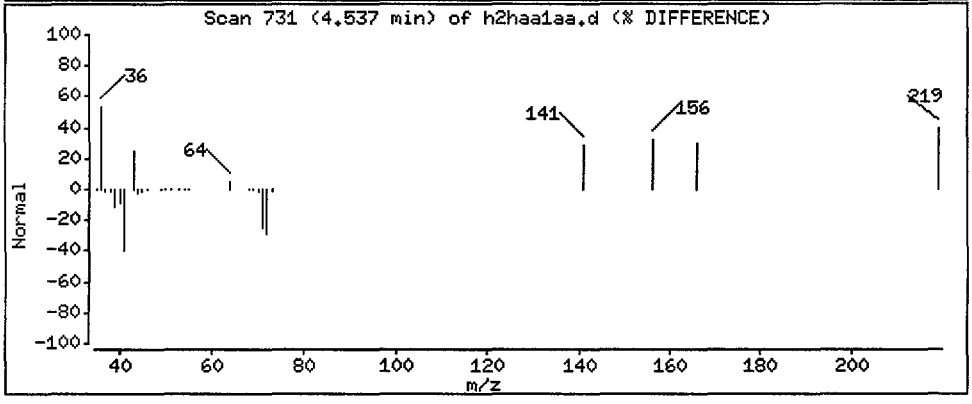












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

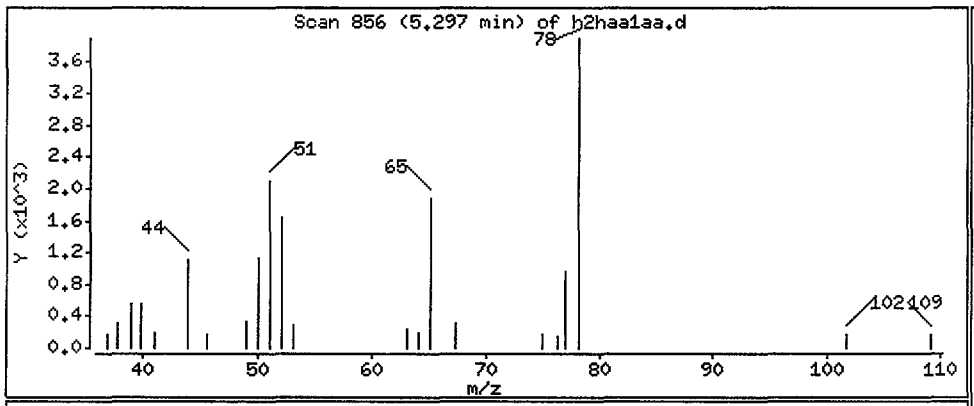
Operator: 22980

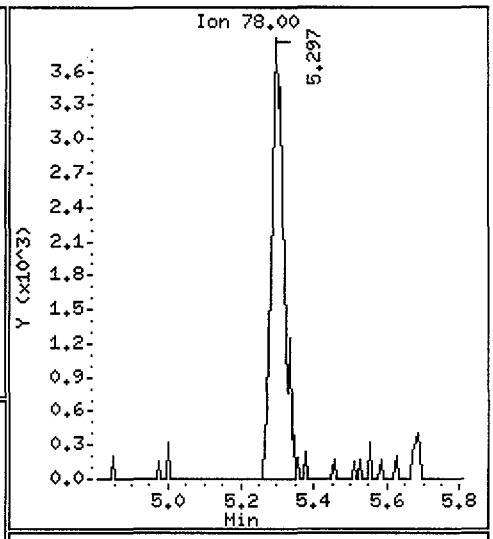
Column phase: J+W 624

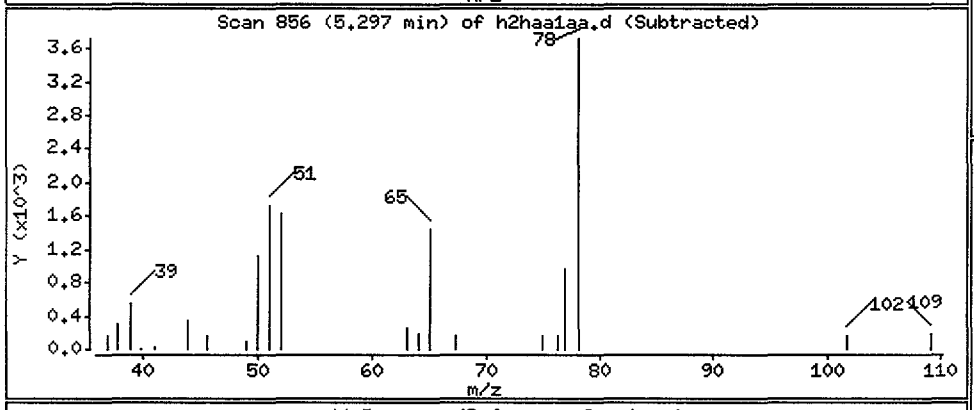
Column diameter: 0.18

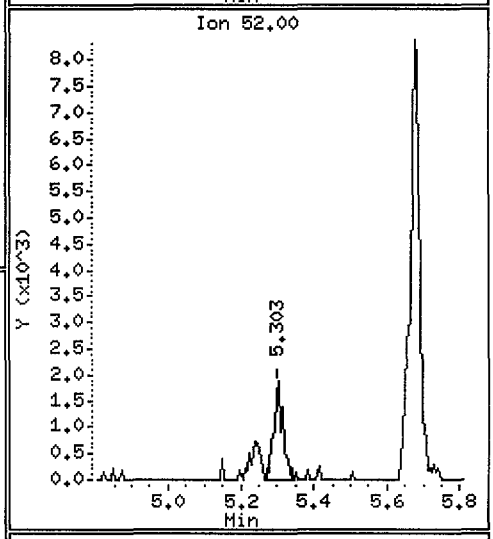
44 Benzene

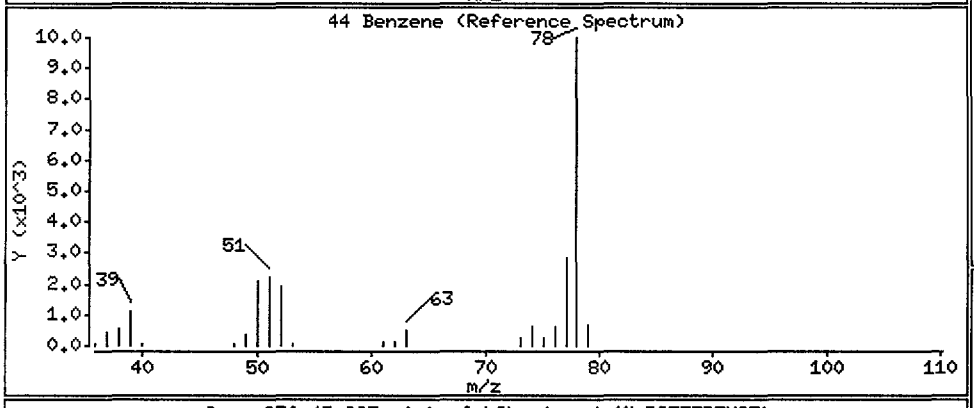
Concentration: 0.0030146 ug

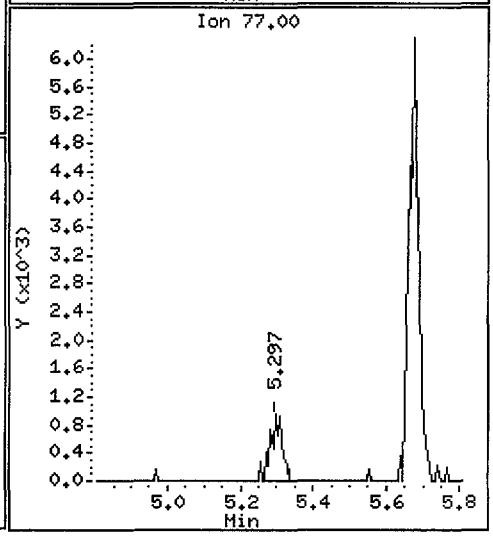


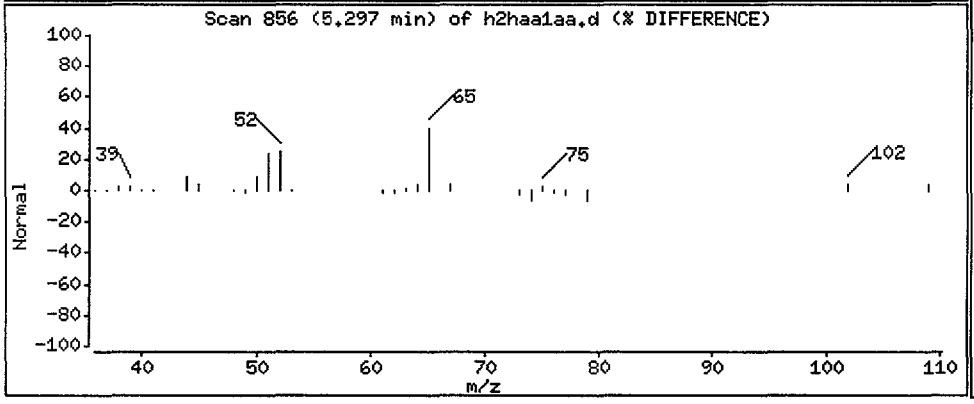












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

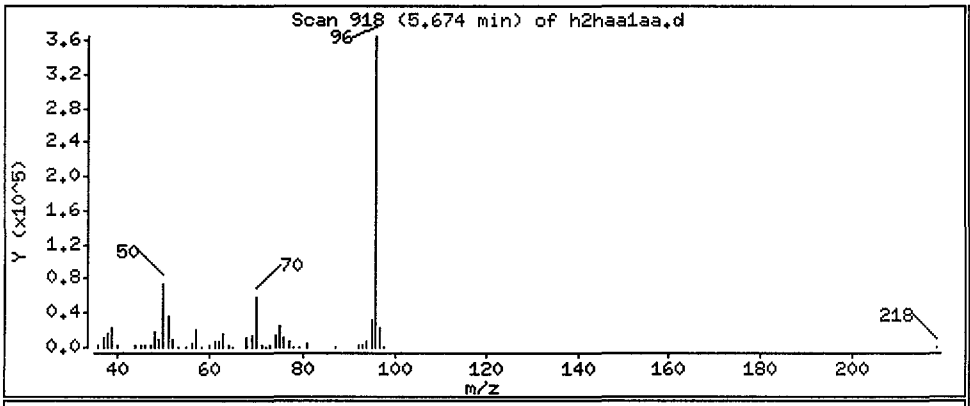
Operator: 22980

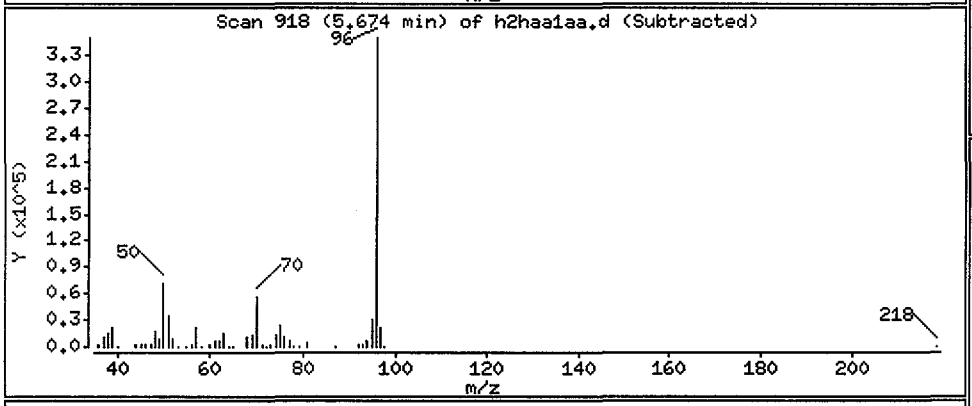
Column phase: J+W 624

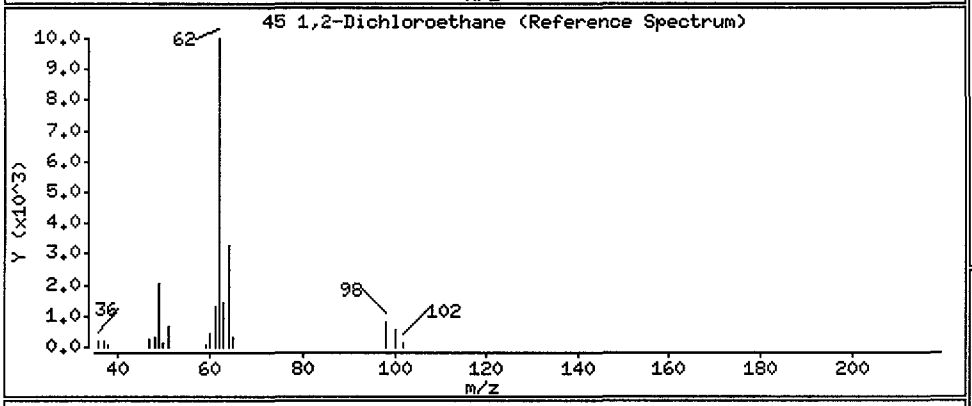
Column diameter: 0.18

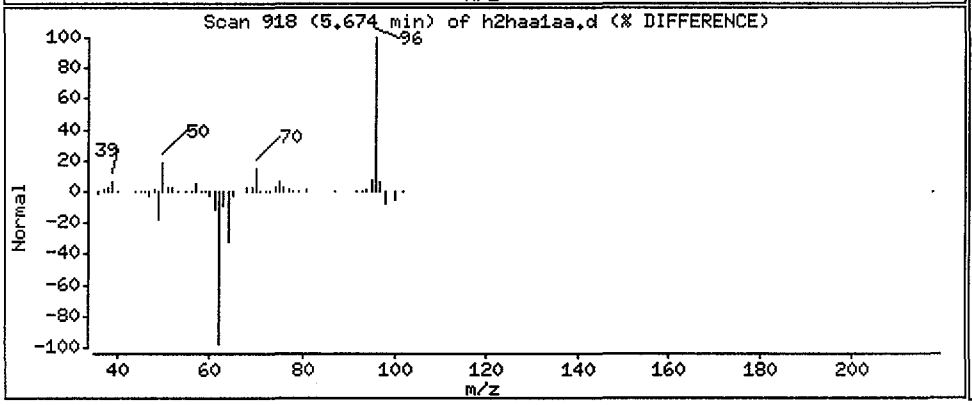
45 1,2-Dichloroethane

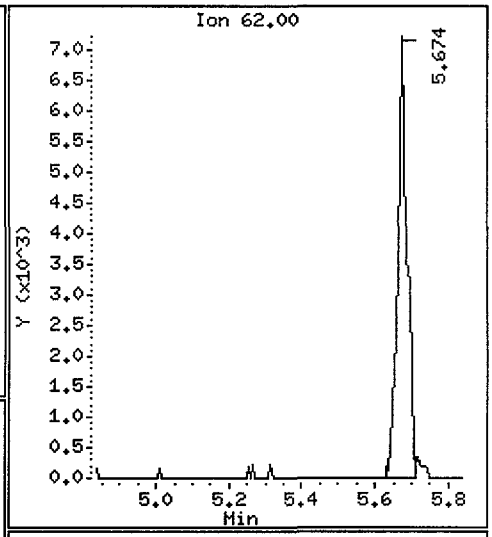
Concentration: 0.019992 ug

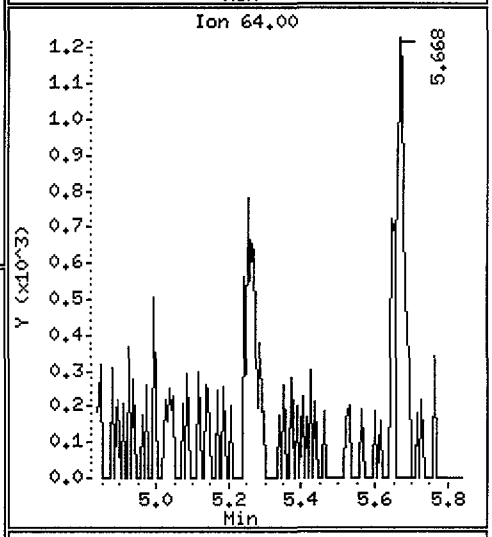


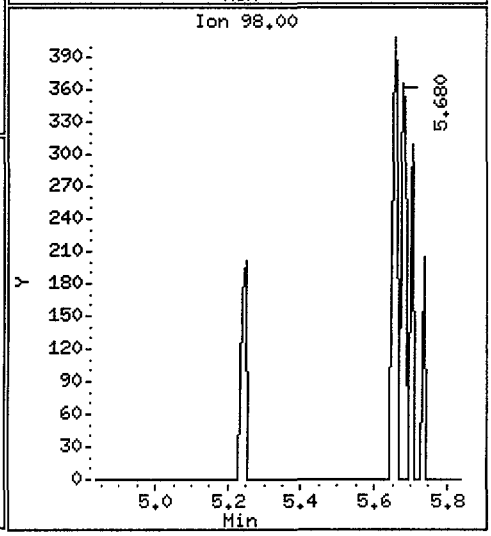












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

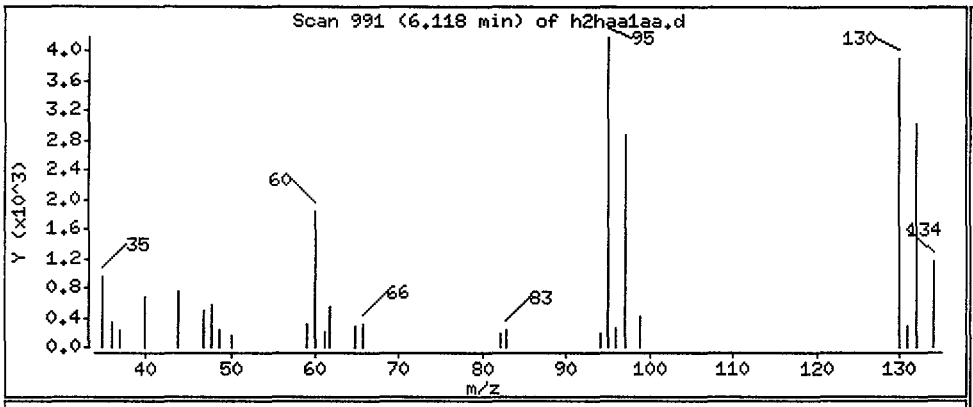
Operator: 22980

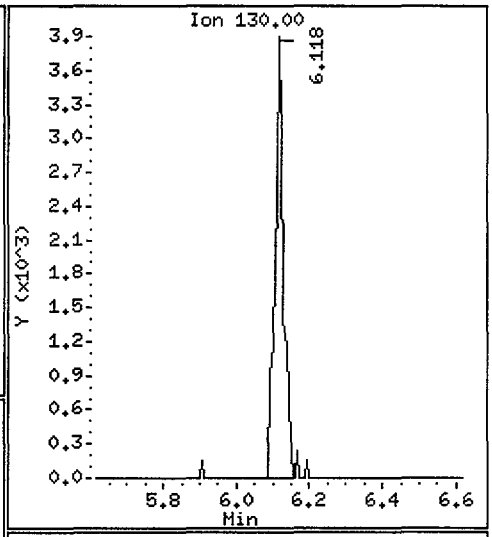
Column phase: J+W 624

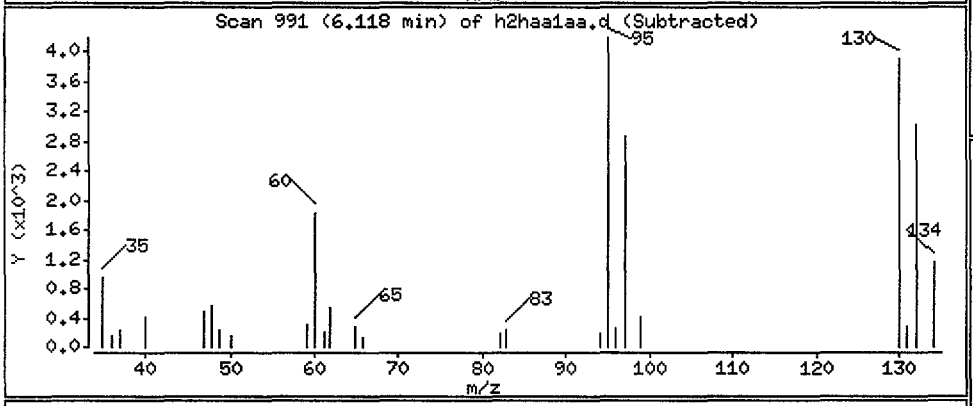
Column diameter: 0.18

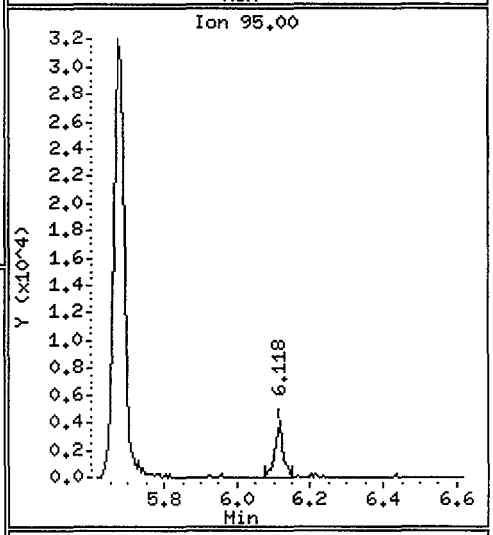
46 Trichloroethene

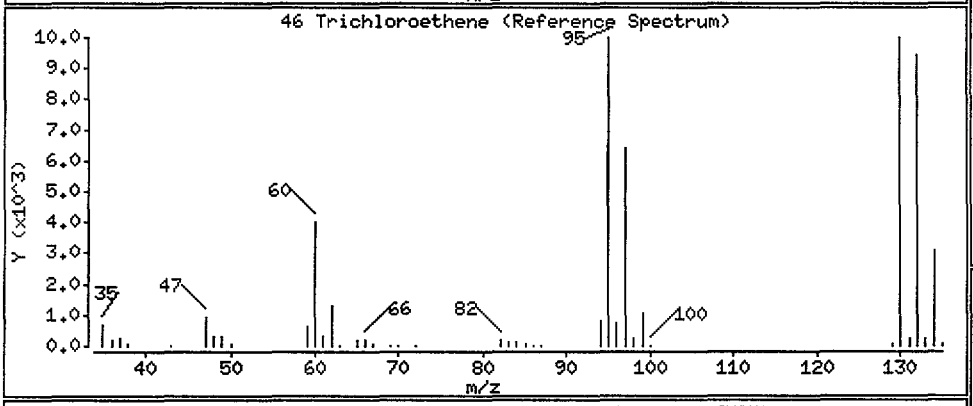
Concentration: 0.0073723 ug

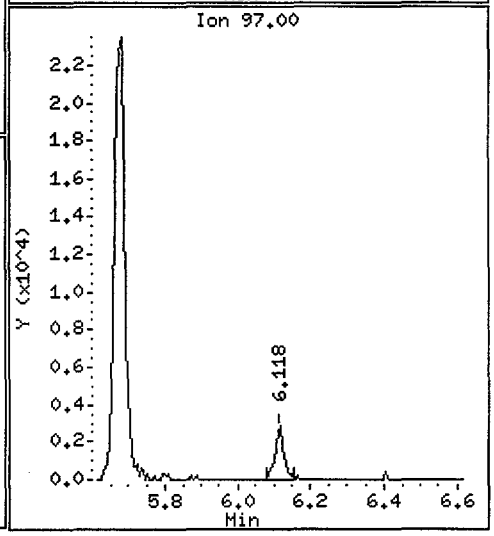


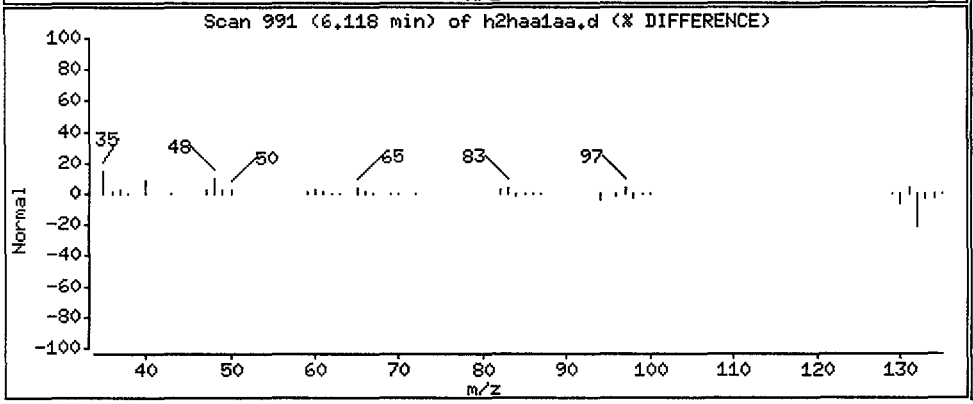












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

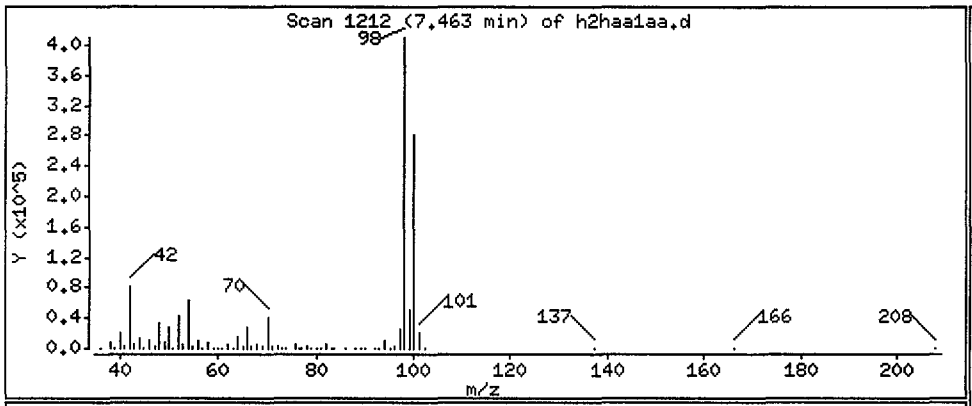
Operator: 22980

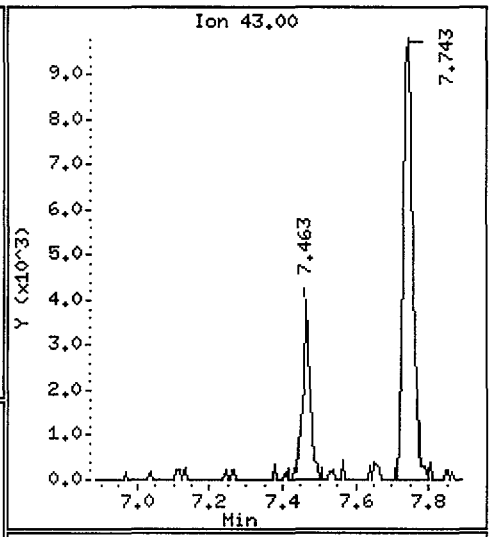
Column phase: J+W 624

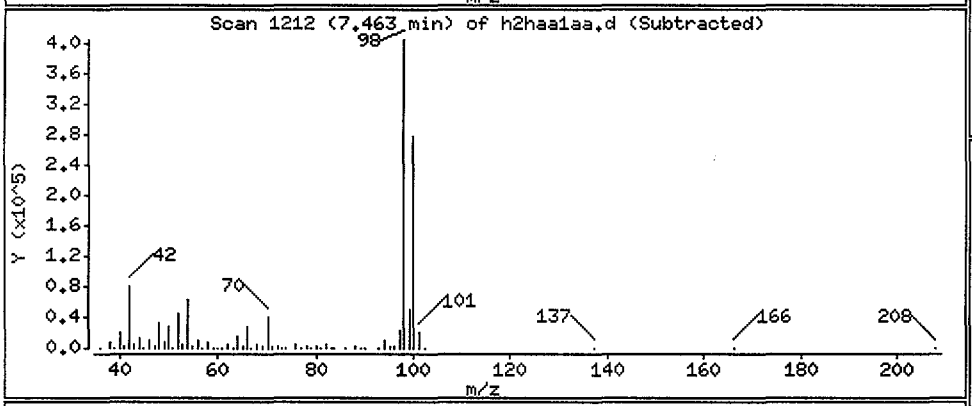
Column diameter: 0.18

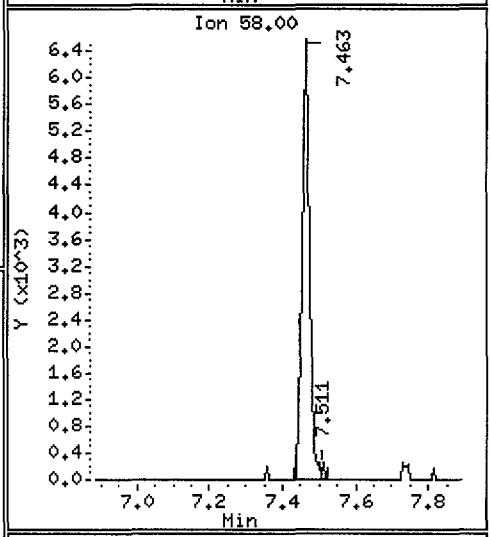
53 4-Methyl-2-pentanone

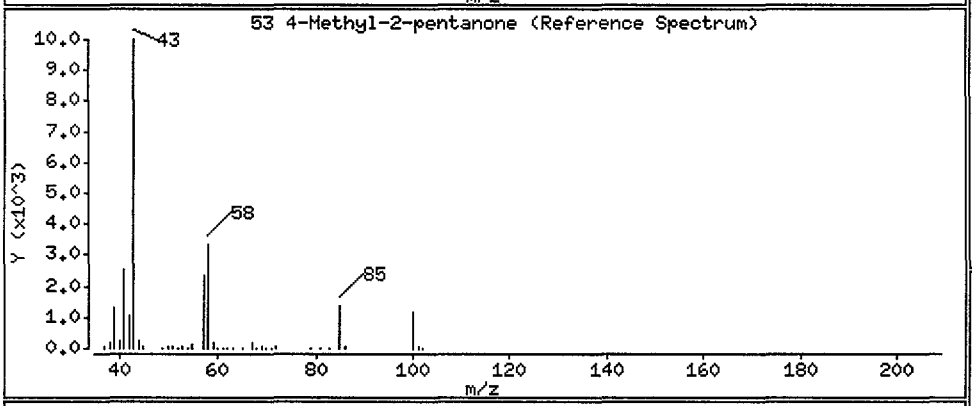
Concentration: 0.021648 ug

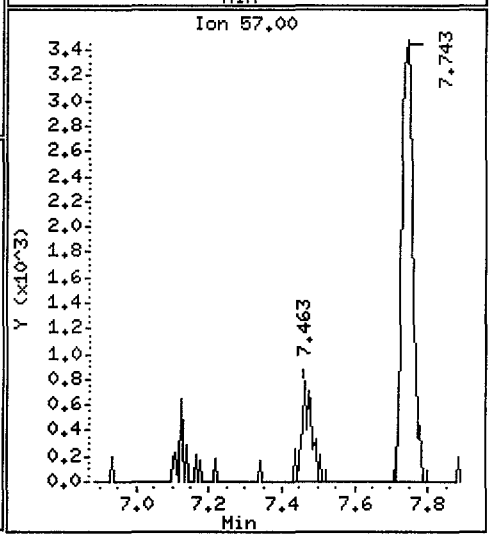


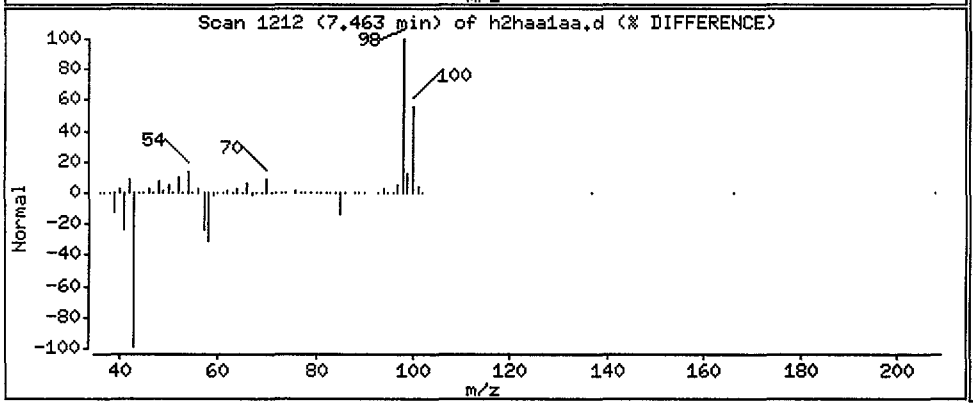












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

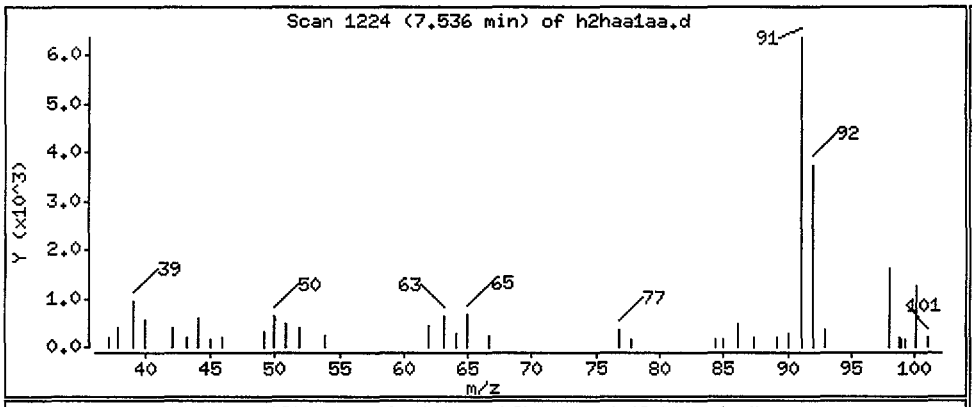
Operator: 22980

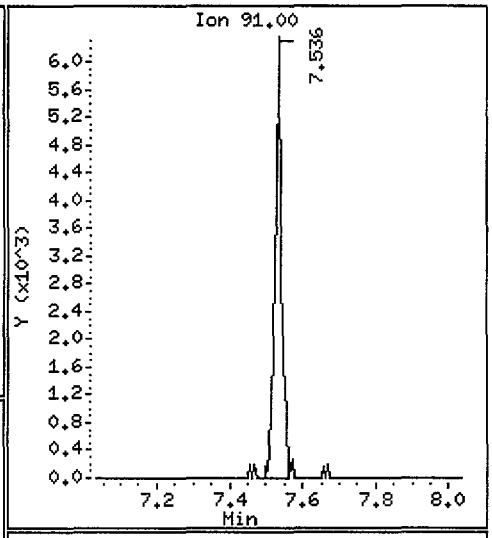
Column phase: J+W 624

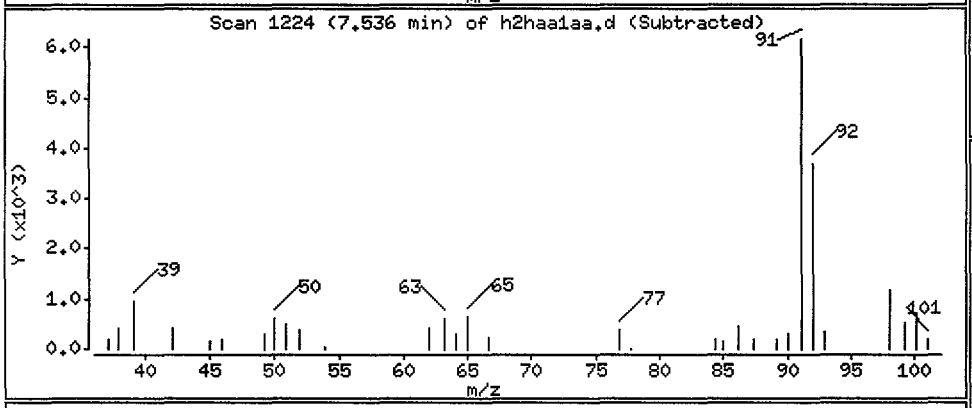
Column diameter: 0.18

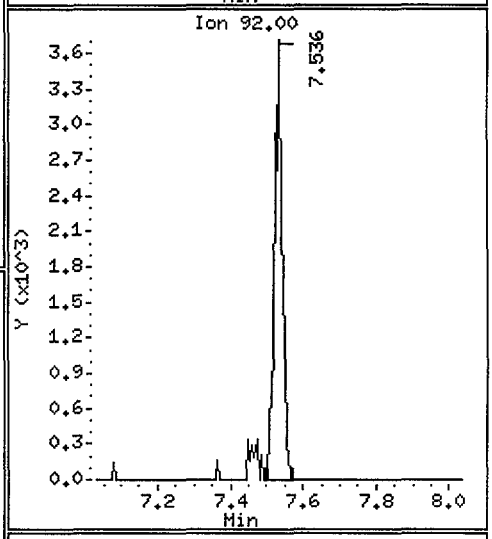
54 Toluene (ccc)

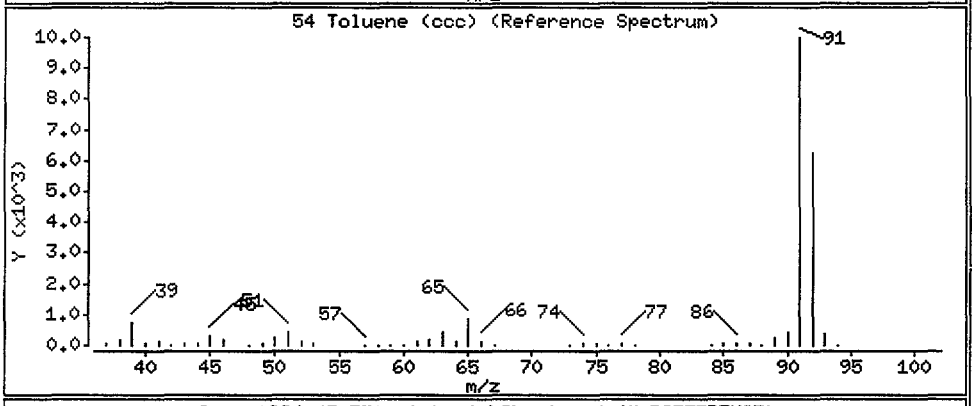
Concentration: 0.0020082 ug

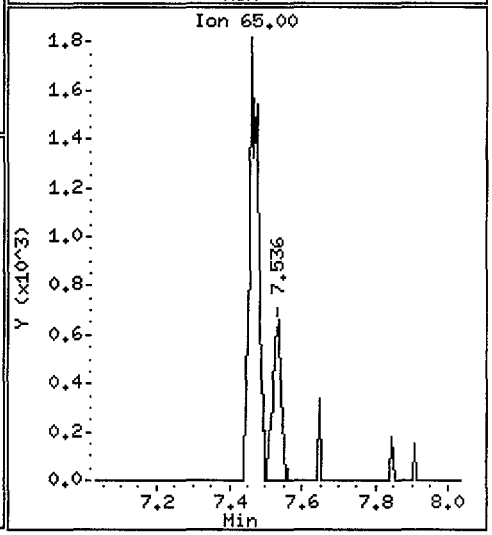


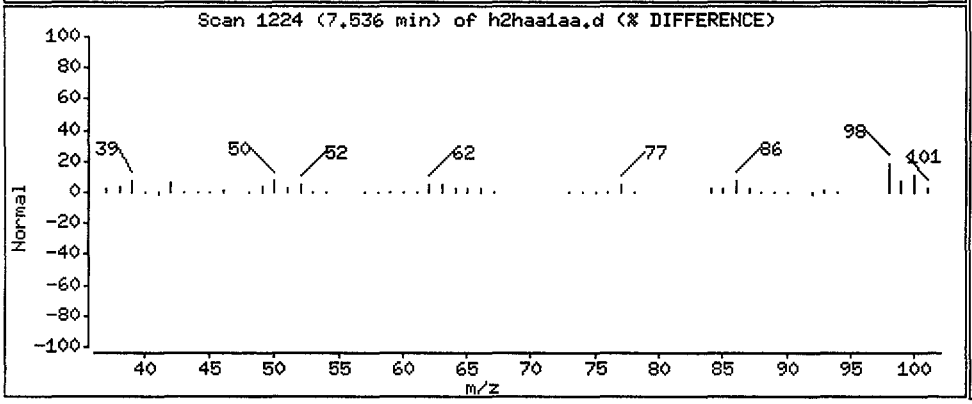












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

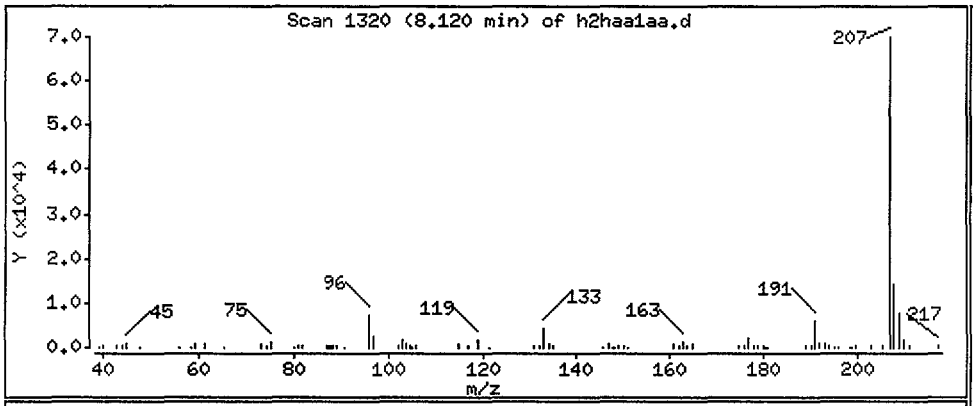
Operator: 22980

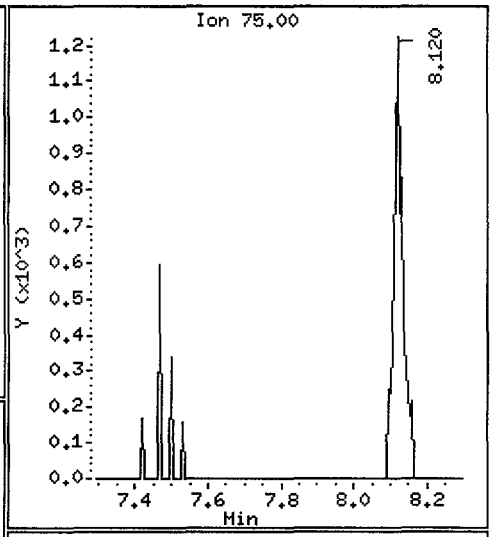
Column phase: J+W 624

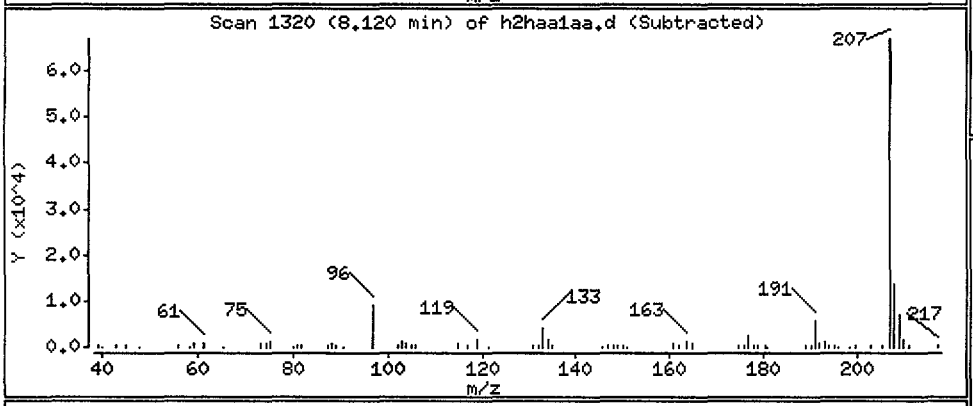
Column diameter: 0.18

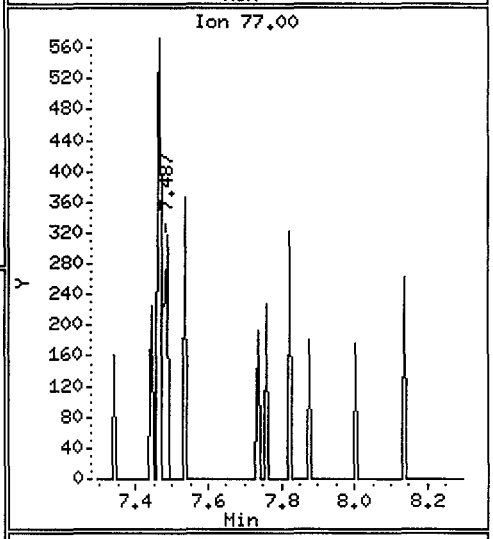
55 trans-1,3-Dichloropropene

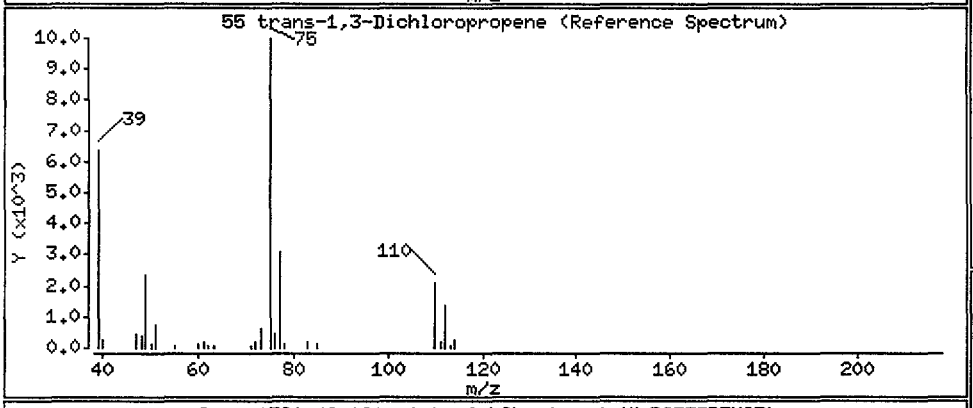
Concentration: 0.018863 ug

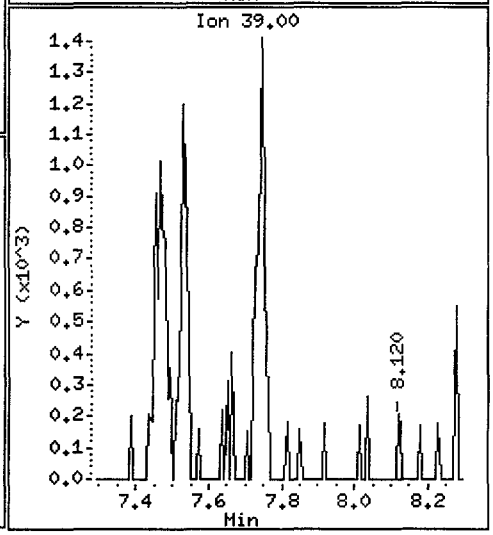


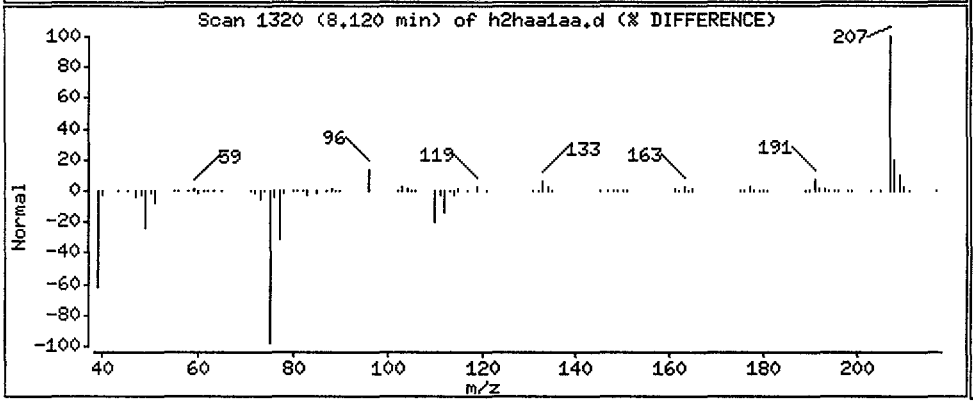












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

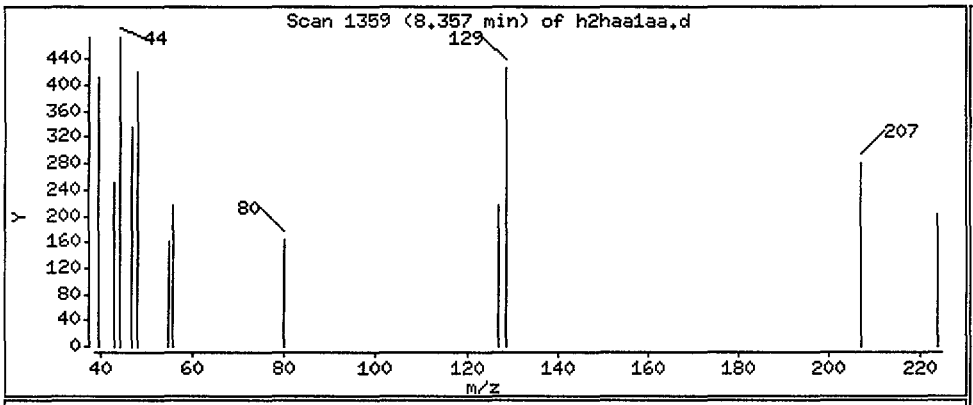
Operator: 22980

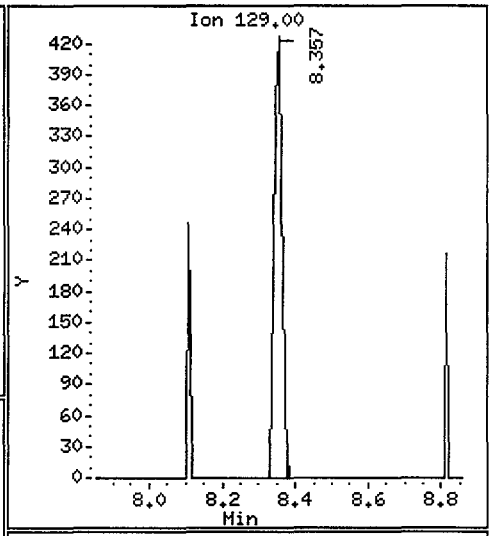
Column phase: J+W 624

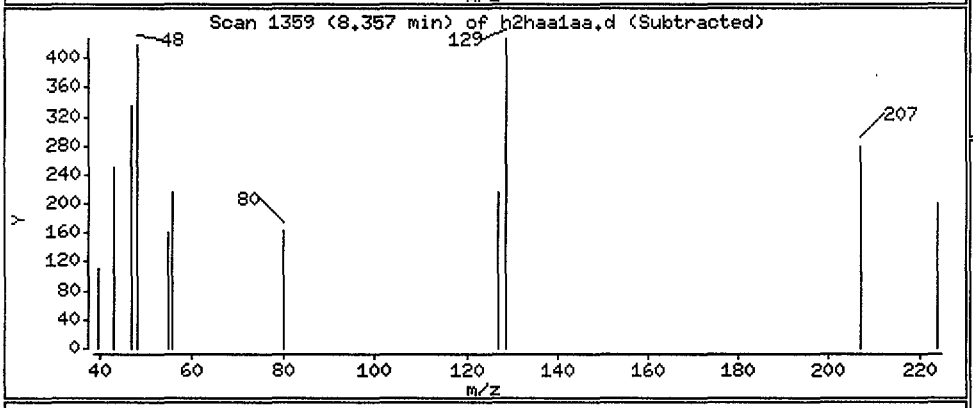
Column diameter: 0.18

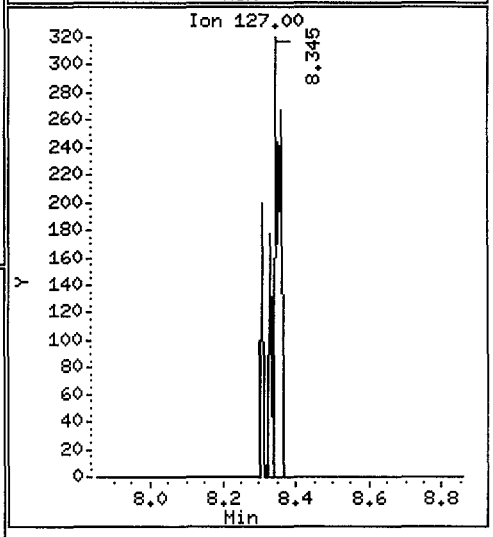
61 Chlorodibromomethane

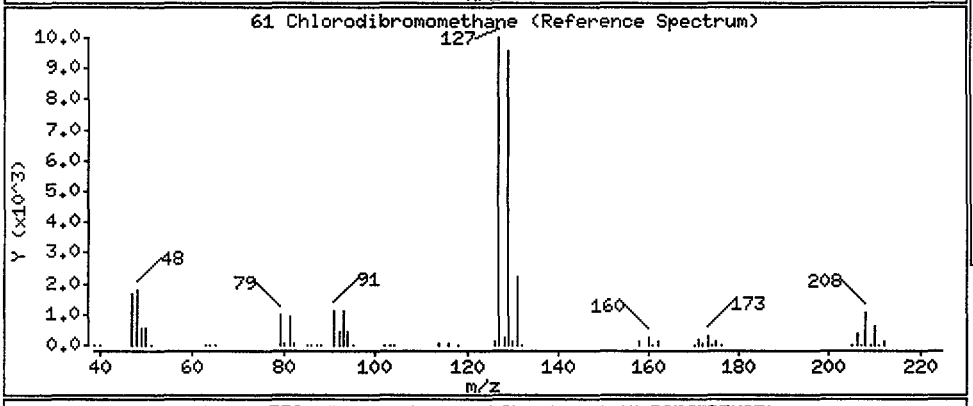
Concentration: 0.021117 ug

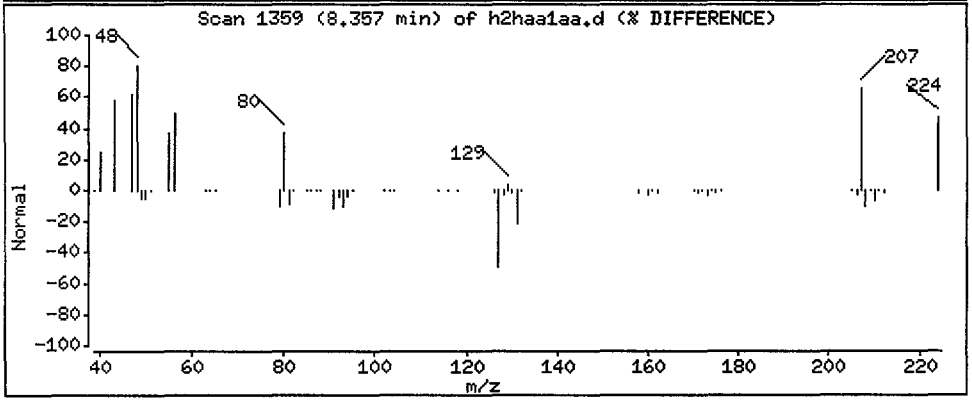












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

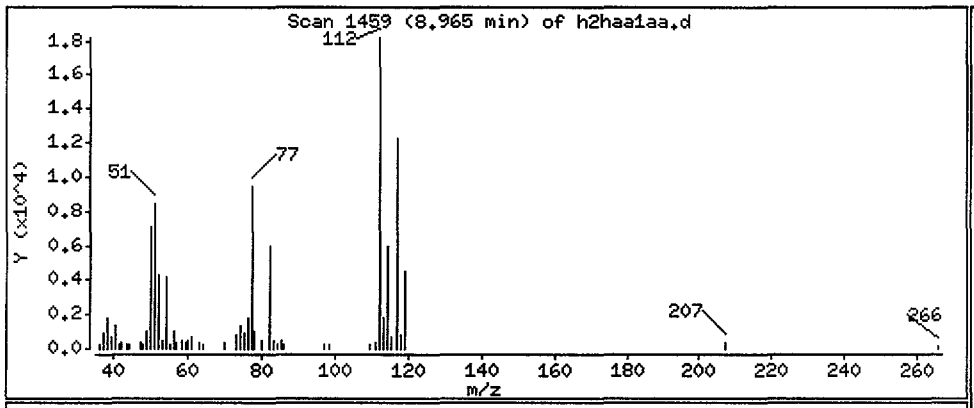
Operator: 22980

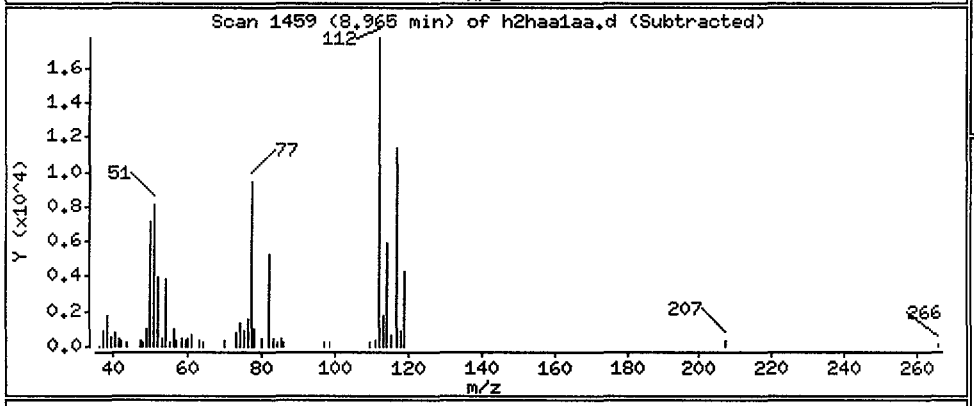
Column phase: J+W 624

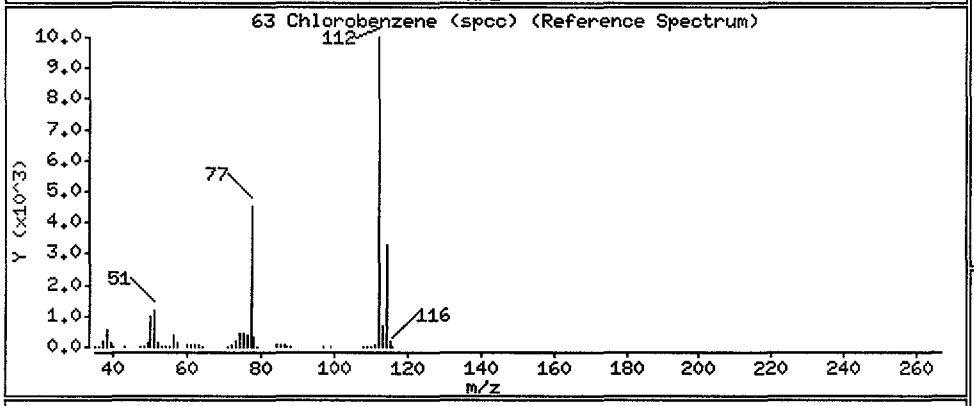
Column diameter: 0.18

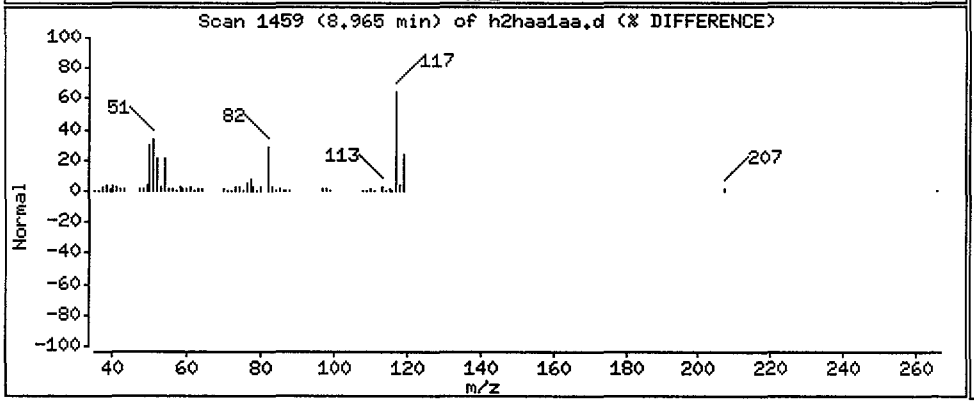
63 Chlorobenzene (spcc)

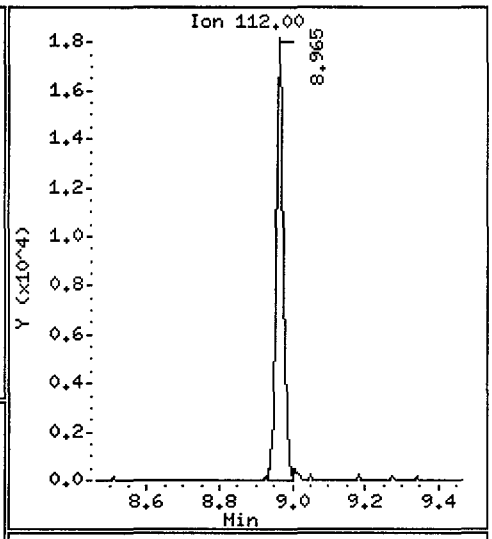
Concentration: 0.011591 ug

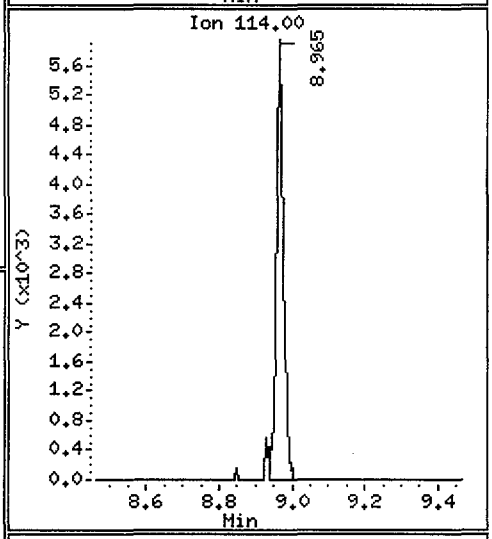


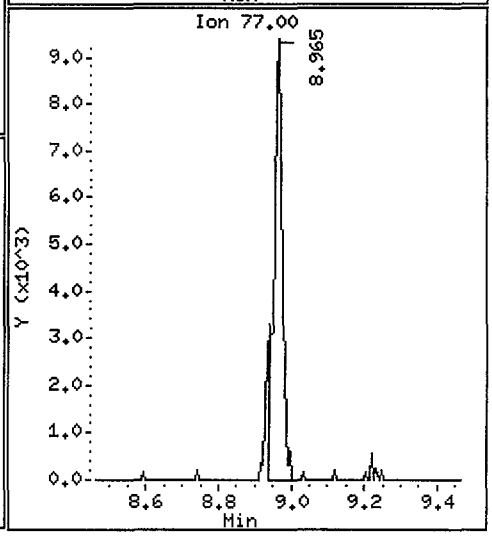












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

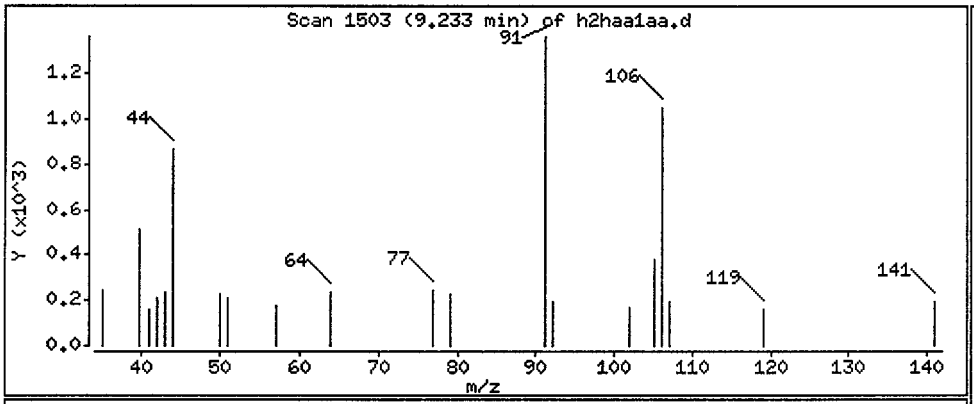
Operator: 22980

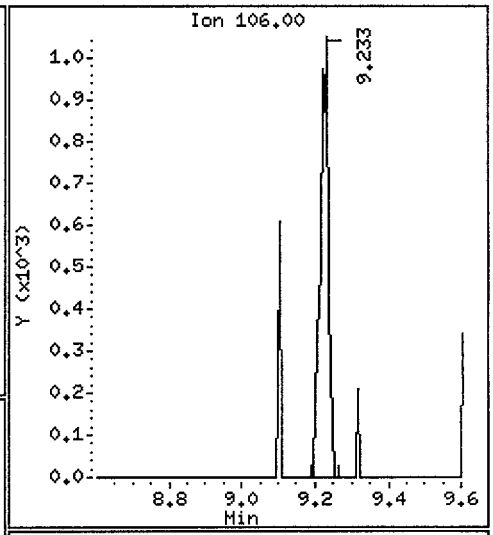
Column phase: J+W 624

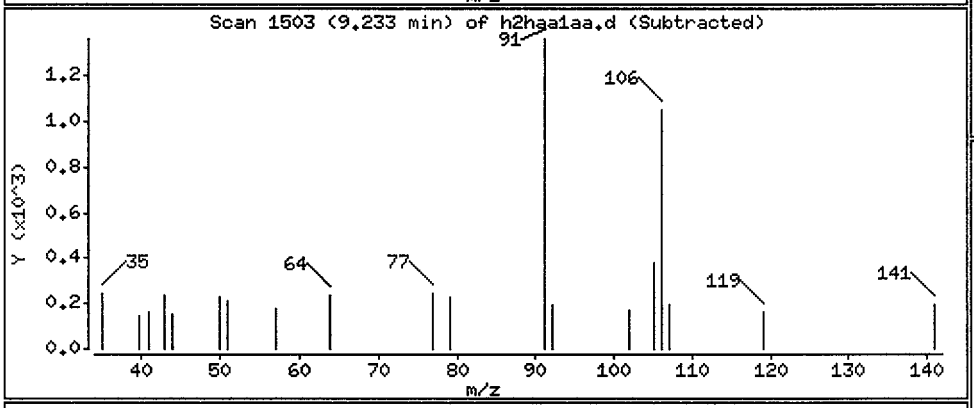
Column diameter: 0.18

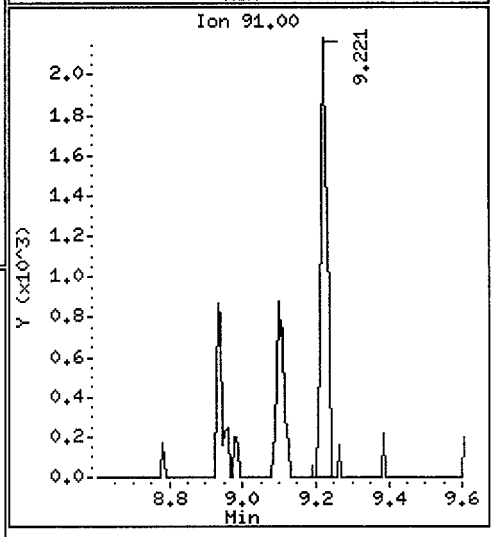
65 Ethylbenzene (ccc)

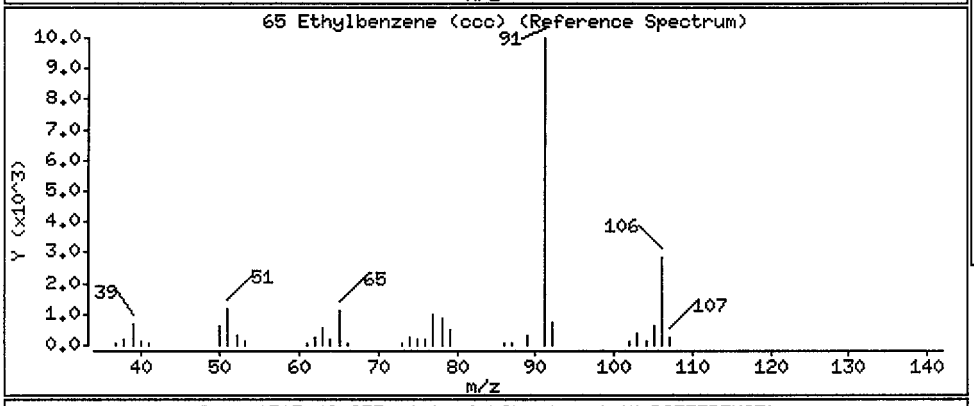
Concentration: 0.0011981 ug

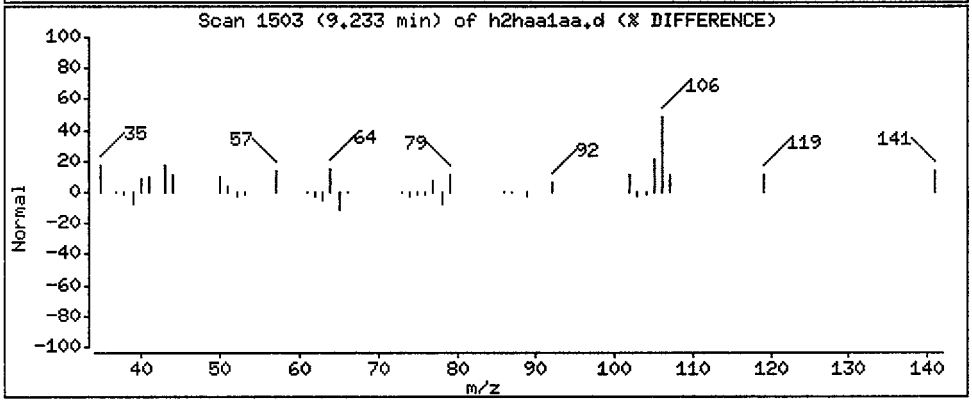












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

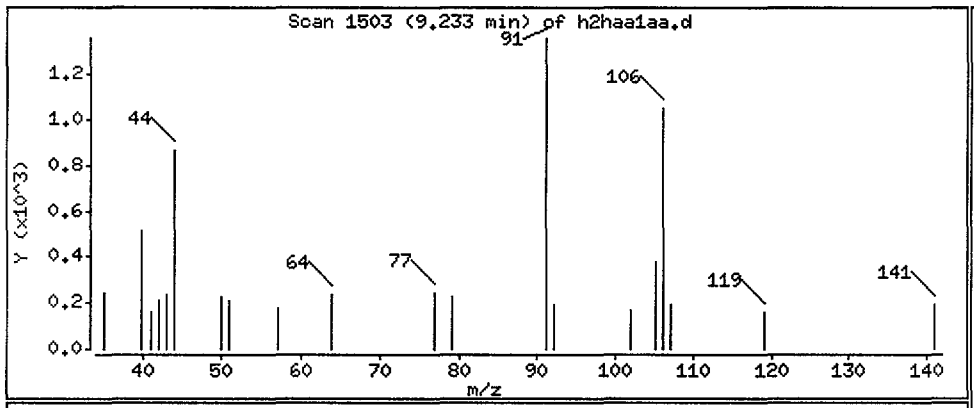
Operator: 22980

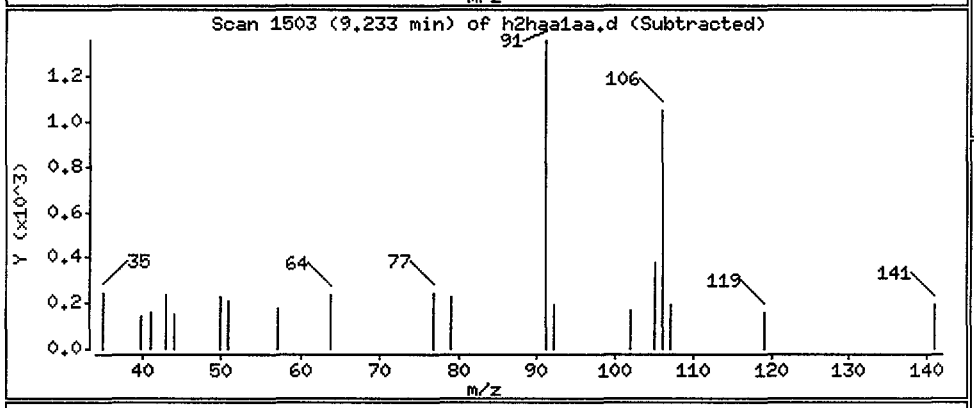
Column phase: J+W 624

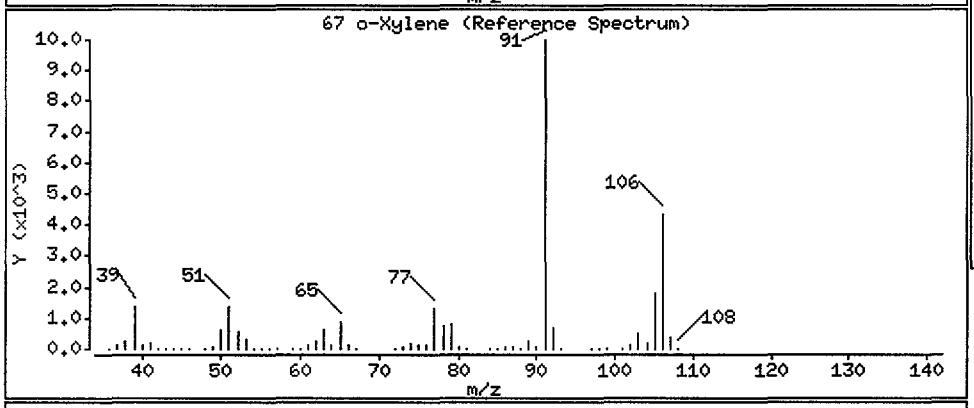
Column diameter: 0.18

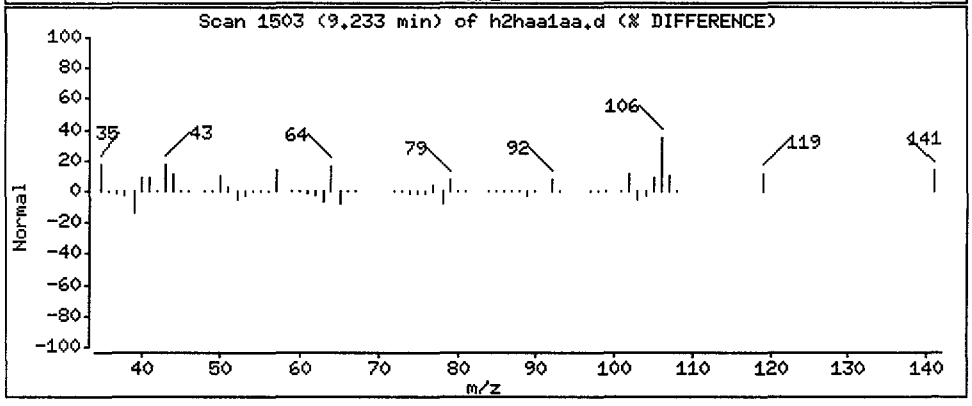
67 o-Xylene

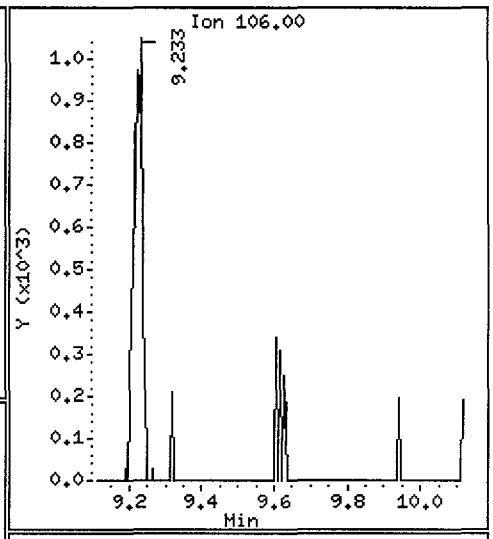
Concentration: 0.0011220 ug

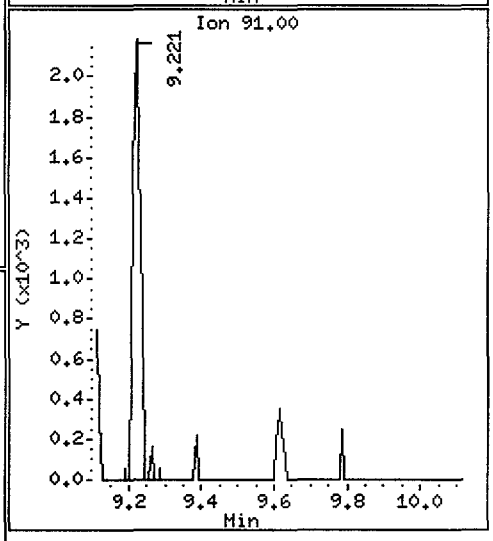












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

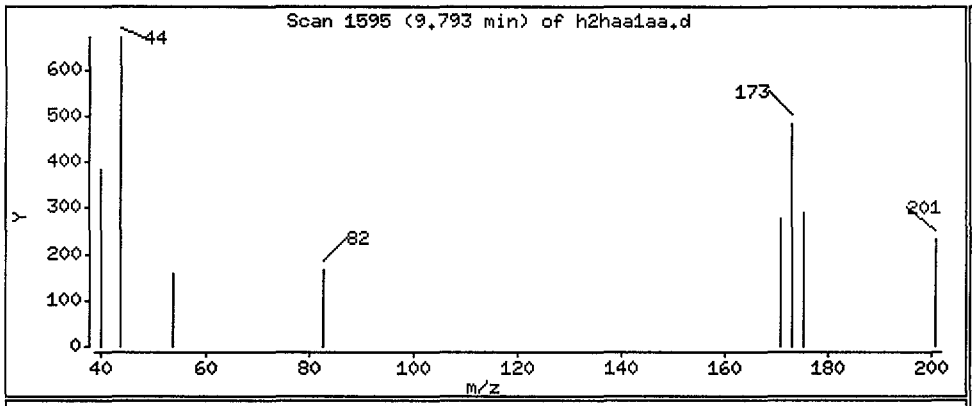
Operator: 22980

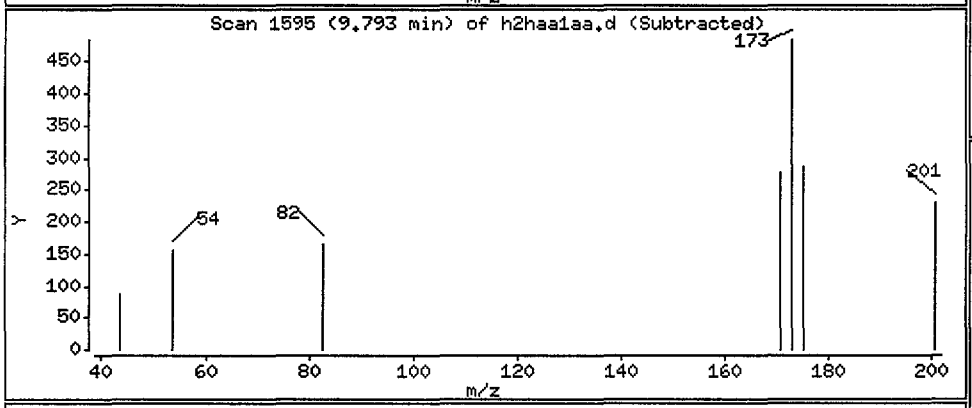
Column phase: J+W 624

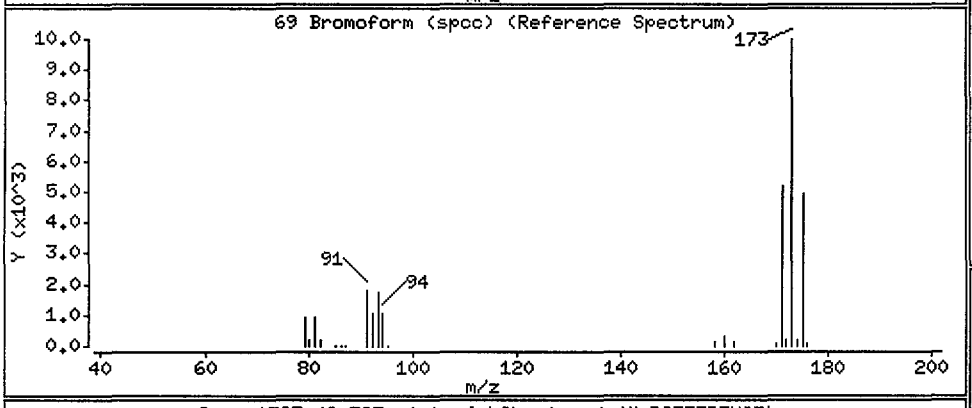
Column diameter: 0.18

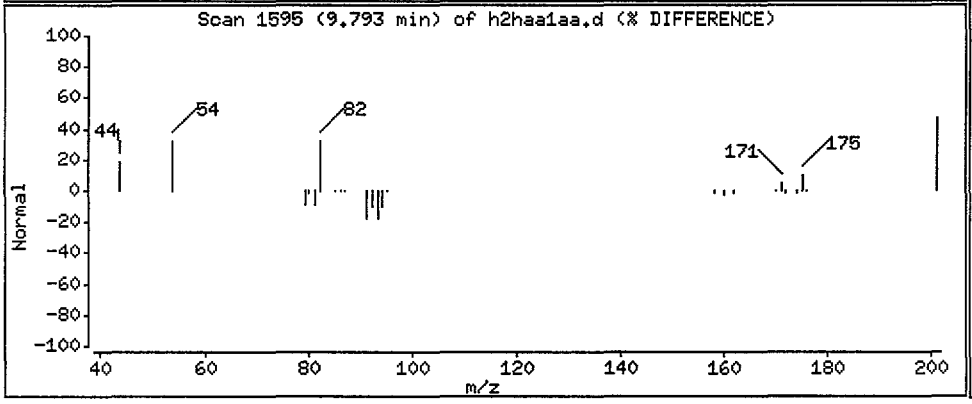
69 Bromoform (spcc)

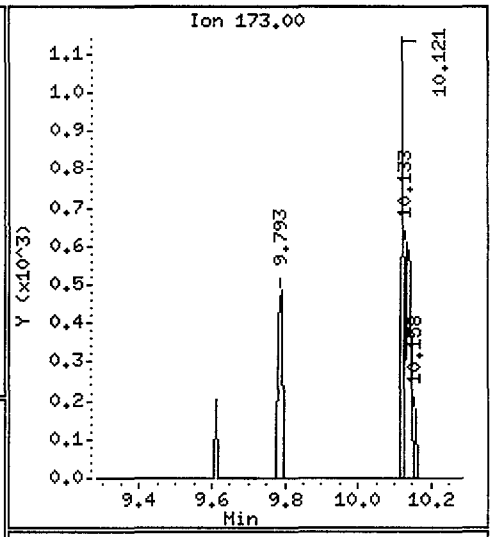
Concentration: 0.024441 ug

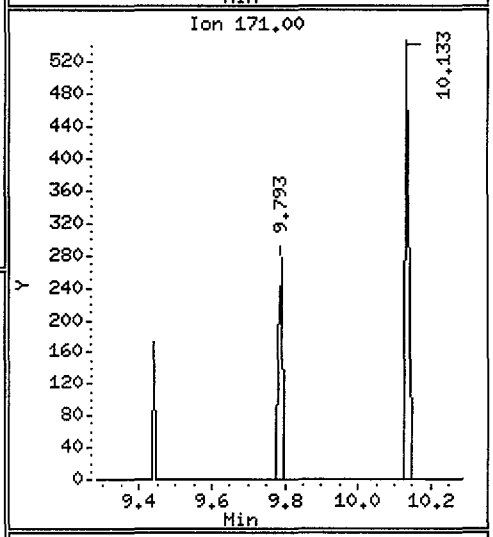


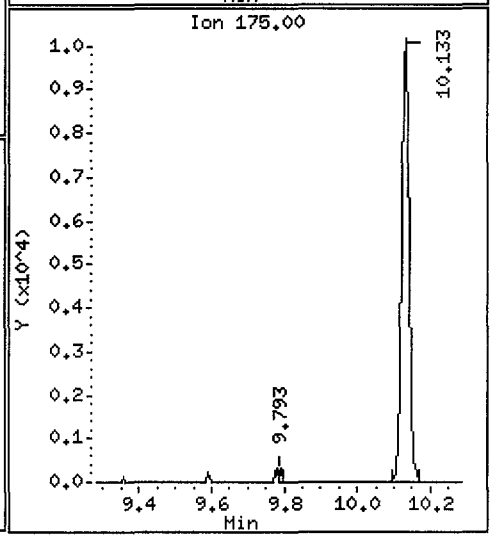












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

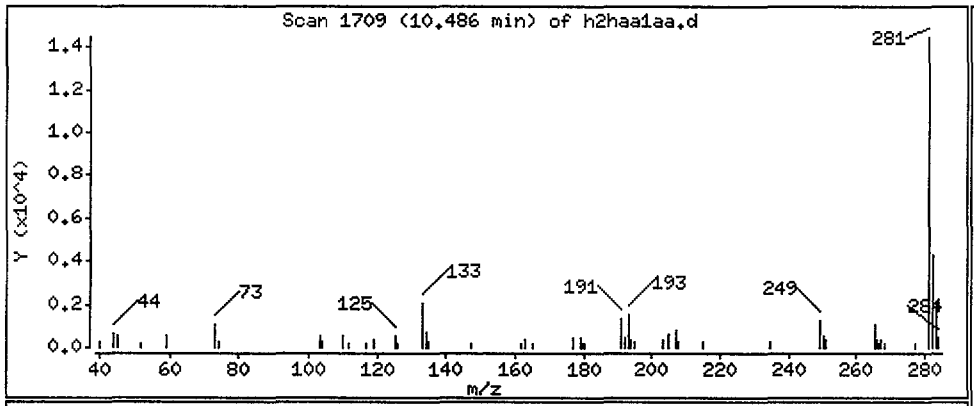
Operator: 22980

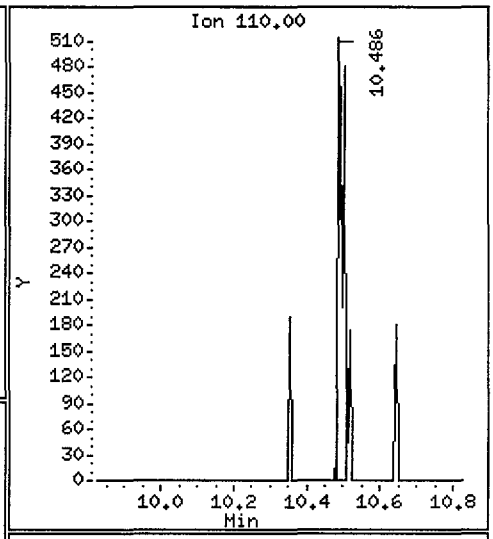
Column phase: J+W 624

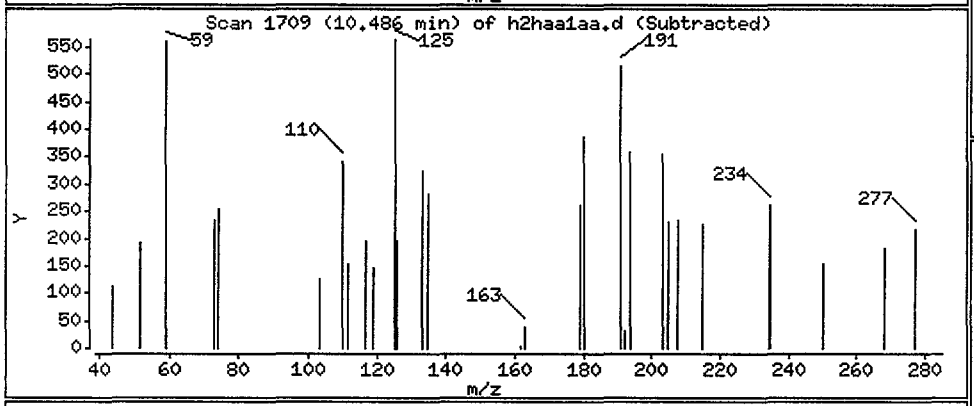
Column diameter: 0.18

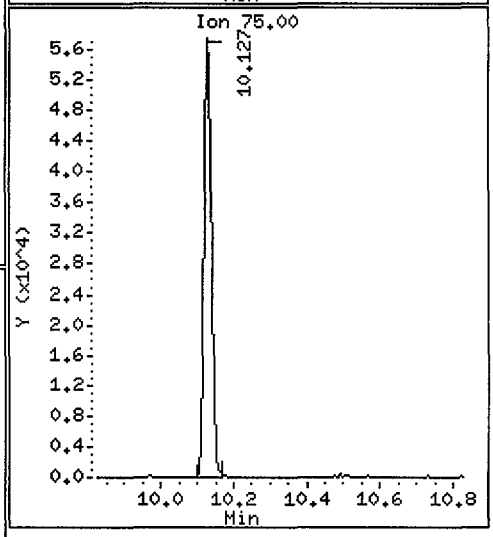
74 1,2,3-Trichloropropane

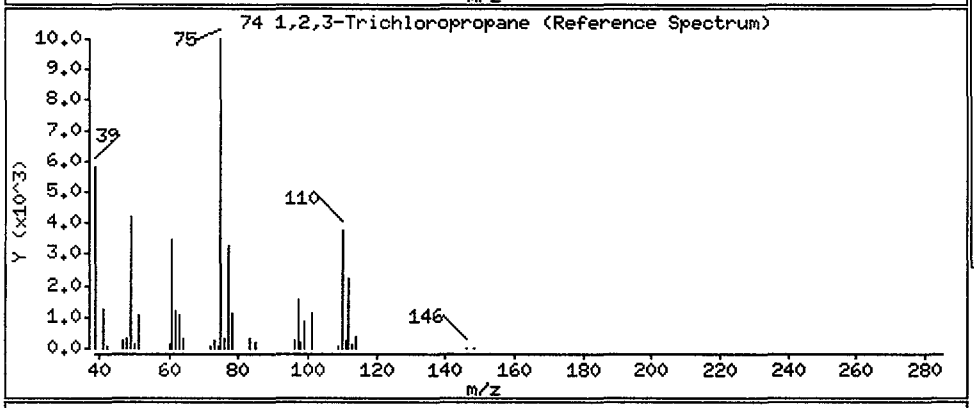
Concentration: 0.0072810 ug

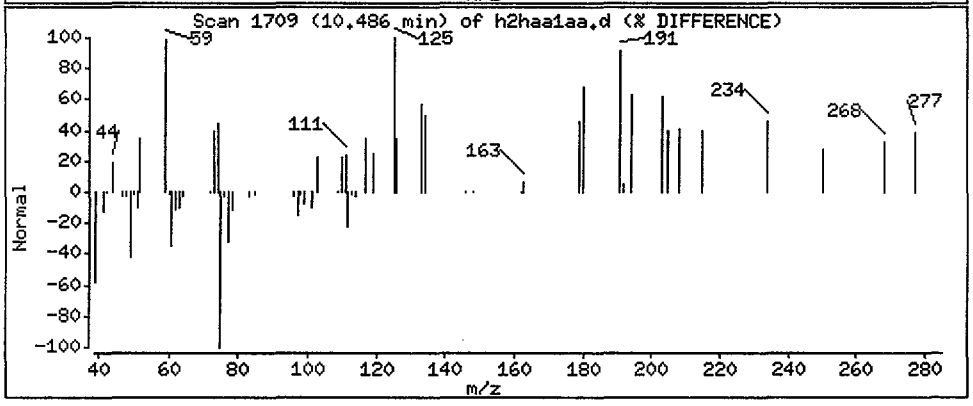












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

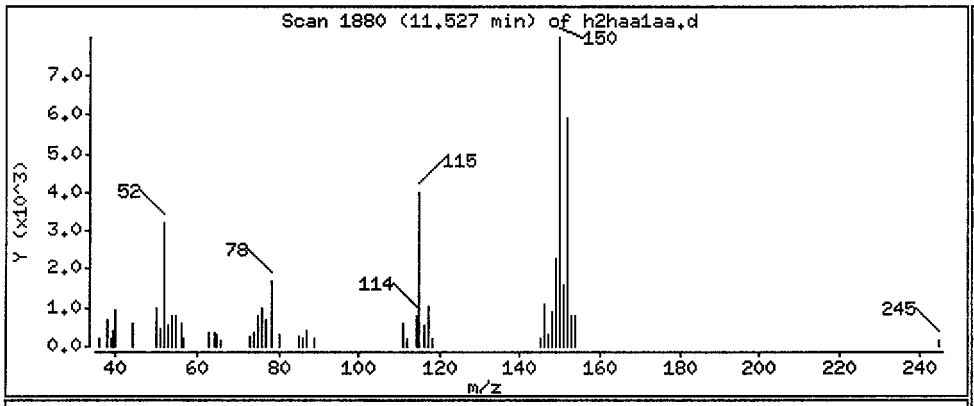
Operator: 22980

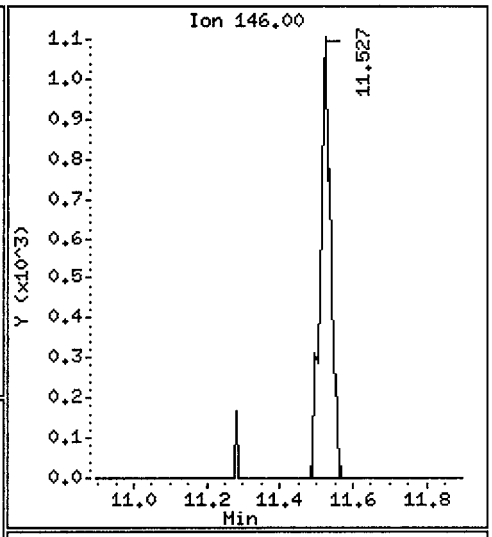
Column phase: J+W 624

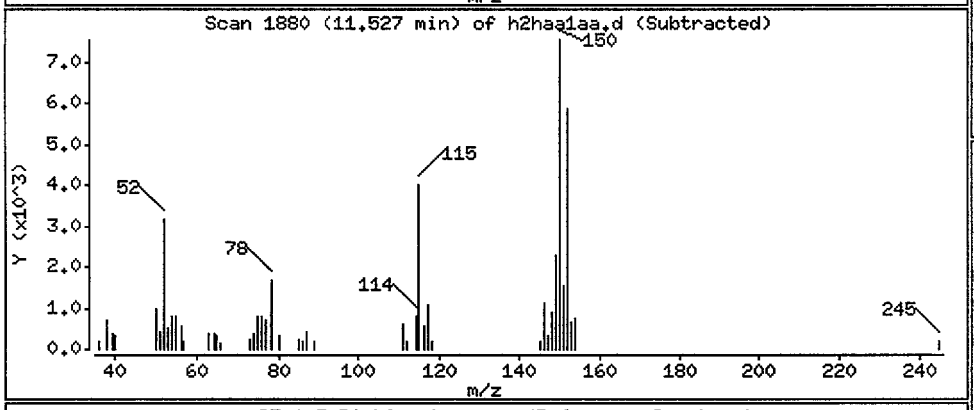
Column diameter: 0.18

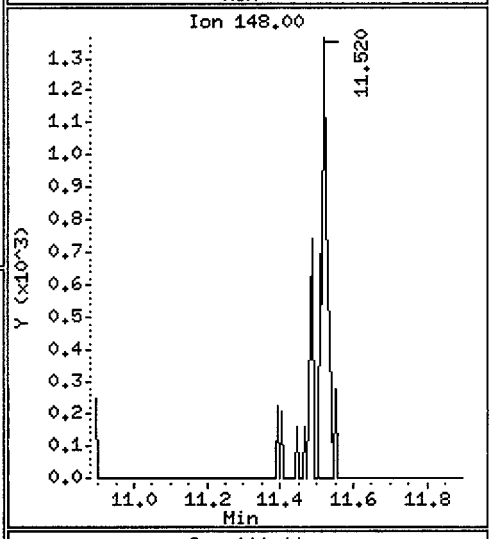
83 1,3-Dichlorobenzene

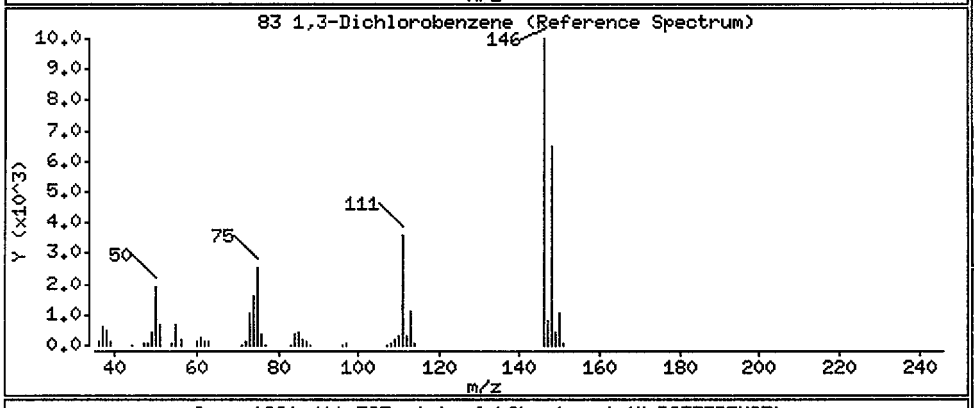
Concentration: 0.0013545 ug

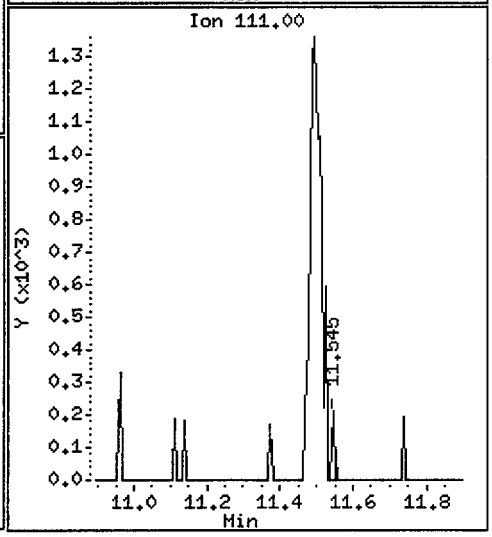


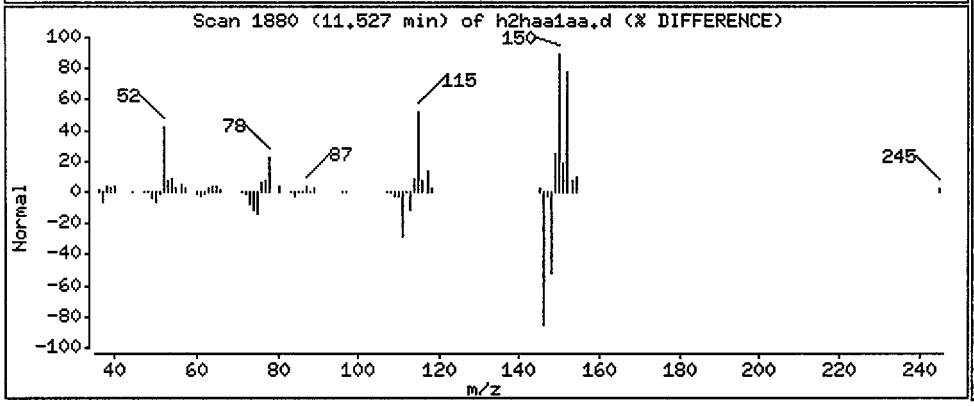












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

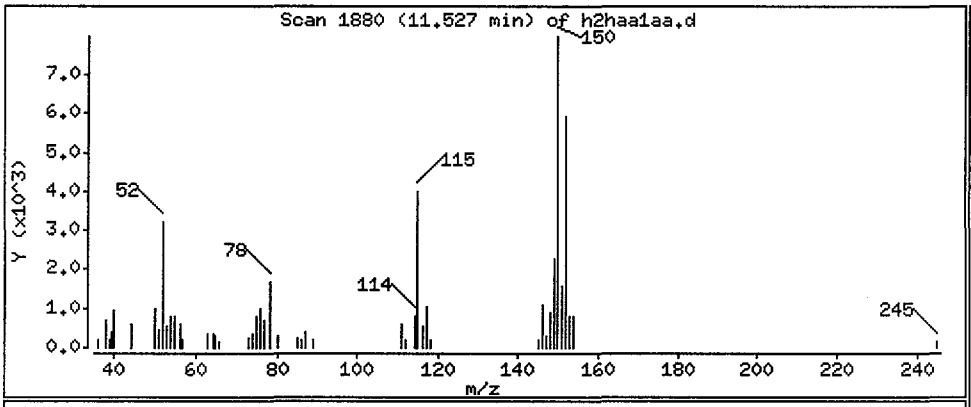
Operator: 22980

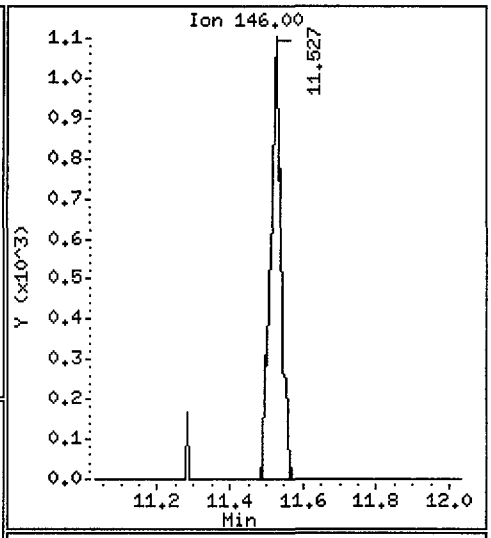
Column phase: J+W 624

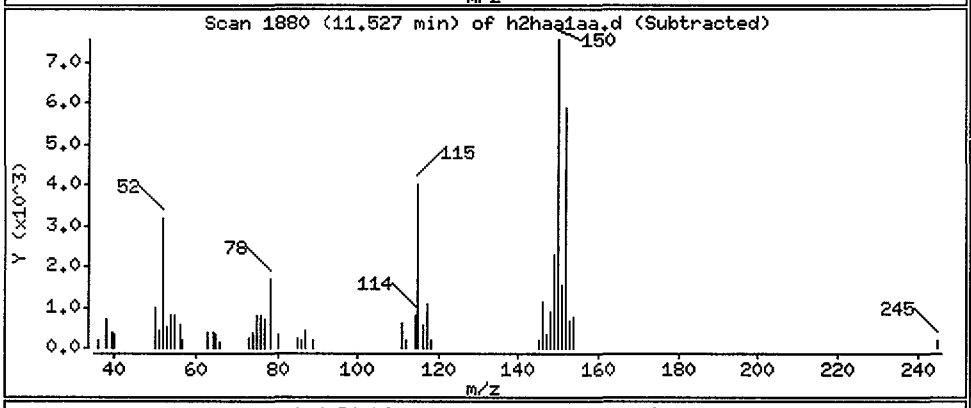
Column diameter: 0.18

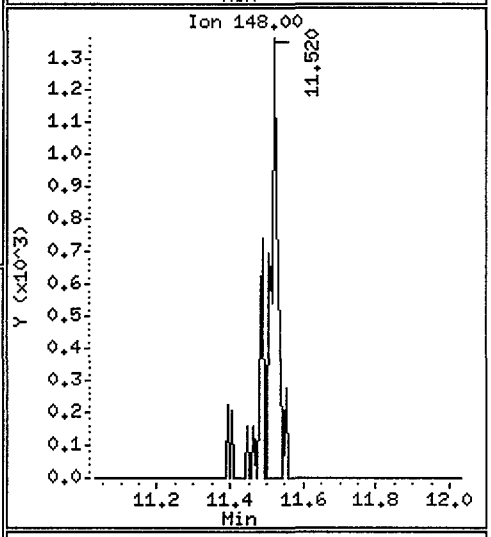
85 1,4-Dichlorobenzene

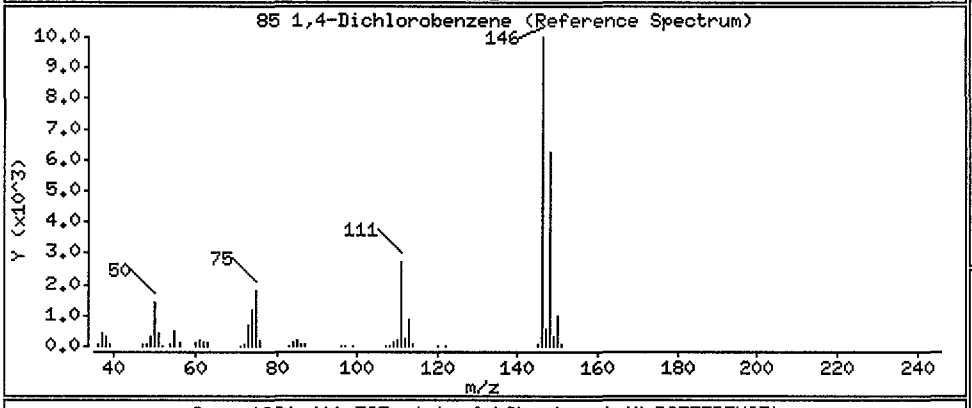
Concentration: 0.0014562 ug

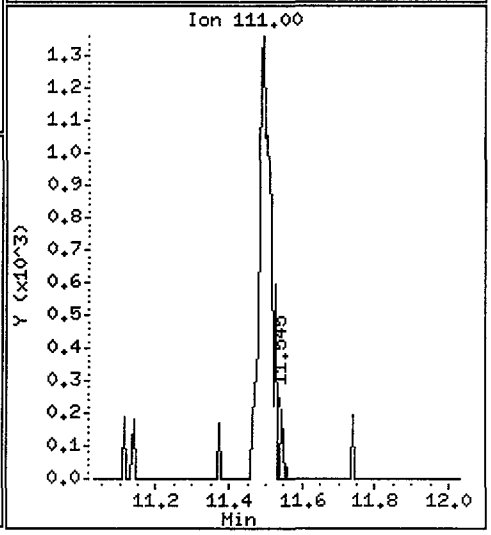


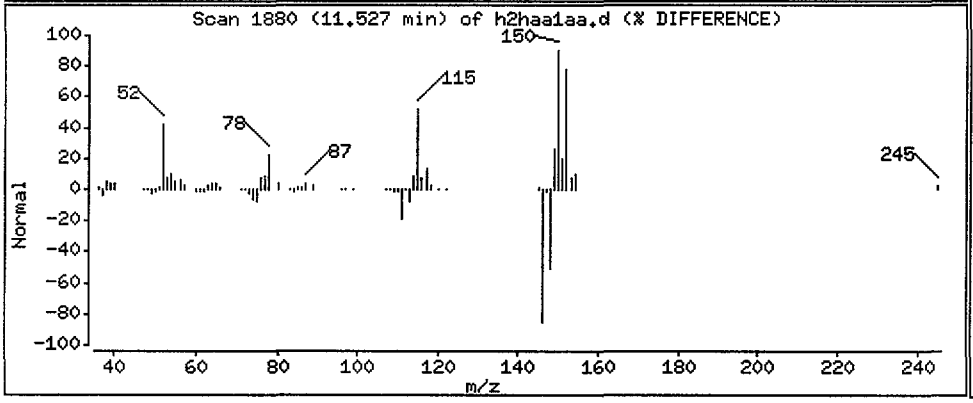












Data File: /var/chem/gcms/mz.i/Z040706.b/h2haa1aa.d
Report Date: 14-Apr-2006 17:01

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2haa1aa.d
Lab Smp Id: H2HAA1AA Client Smp ID: G-3013-R2-VOST PAIR
Inj Date : 07-APR-2006 15:57
Operator : 22980 Inst ID: mz.i
Smp Info : H2HAA1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 2 Chlorobenzene-d5	8.941	1243259	10.000
* 3 1,4 Dichlorobenzene-d4	11.496	820050	10.000

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug)	QUAL	LIBRARY	LIB ENTRY	CPND #
Cyclotrisiloxane, hexamethyl-					CAS #: 541-05-9		
8.126	151303	1.21698697	0.030425	91	NIST05.1	73123	2
Cyclotetrasiloxane, octamethyl-					CAS #: 556-67-2		
10.504	90517	1.10379855	0.027595	90	NIST05.1	122479	3

5.

4-14-06

Data File: /var/chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

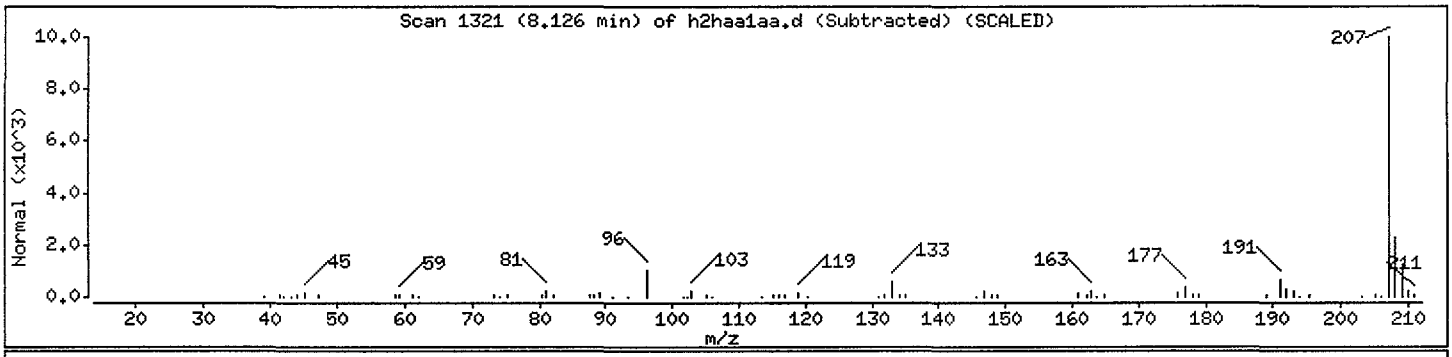
Sample Info: H2HAA1AA,1,0,,

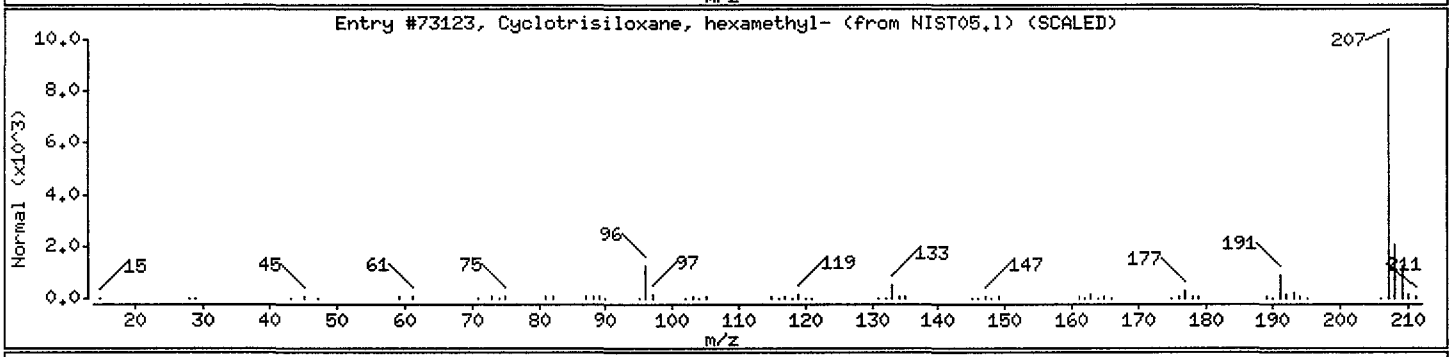
Operator: 22980

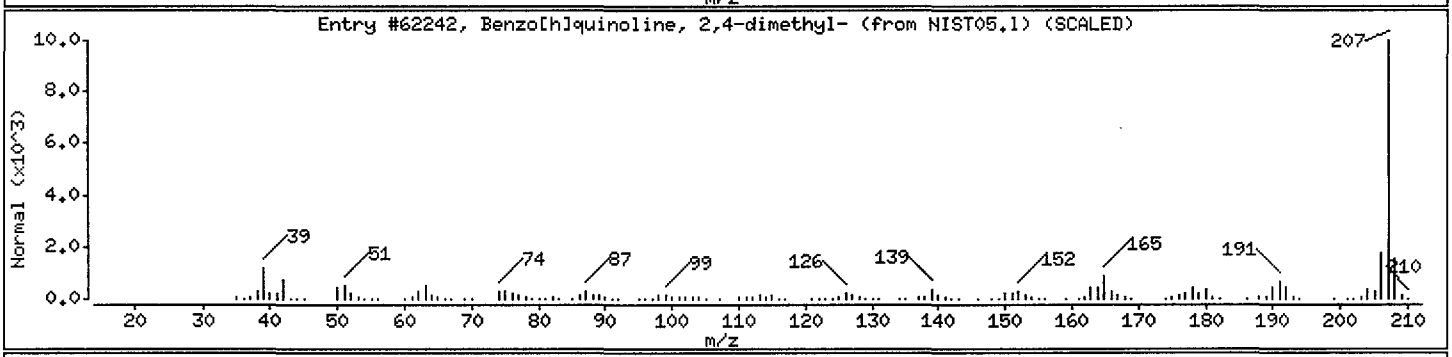
Column phase: J+W 624

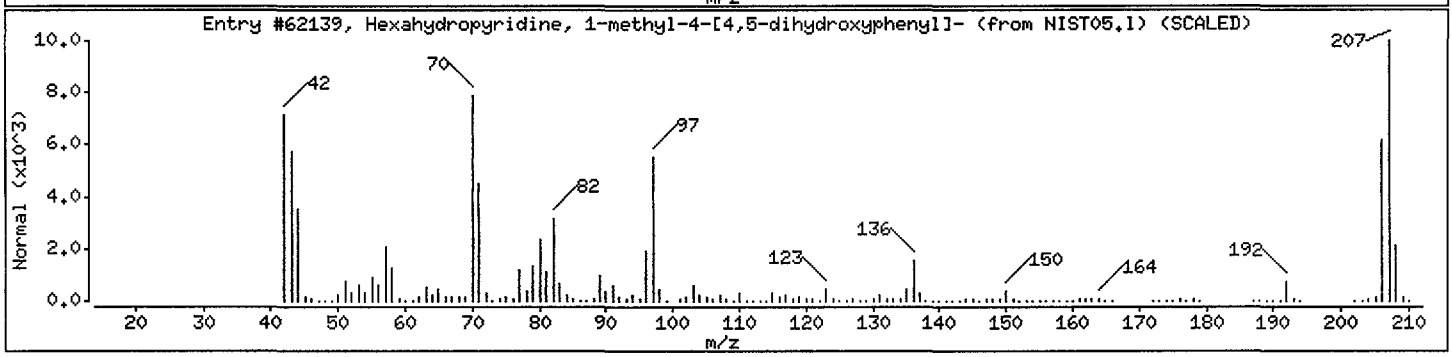
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotrisiloxane, hexamethyl-	541-05-9	NIST05.l	73123	91	C6H18O3Si3	222
Benzo[h]quinoline, 2,4-dimethyl-	605-67-4	NIST05.l	62242	59	C15H13N	207
Hexahydropyridine, 1-methyl-4-[4,5-dihyd	94427-47-1	NIST05.l	62139	53	C12H17NO2	207









Data File: /var/chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

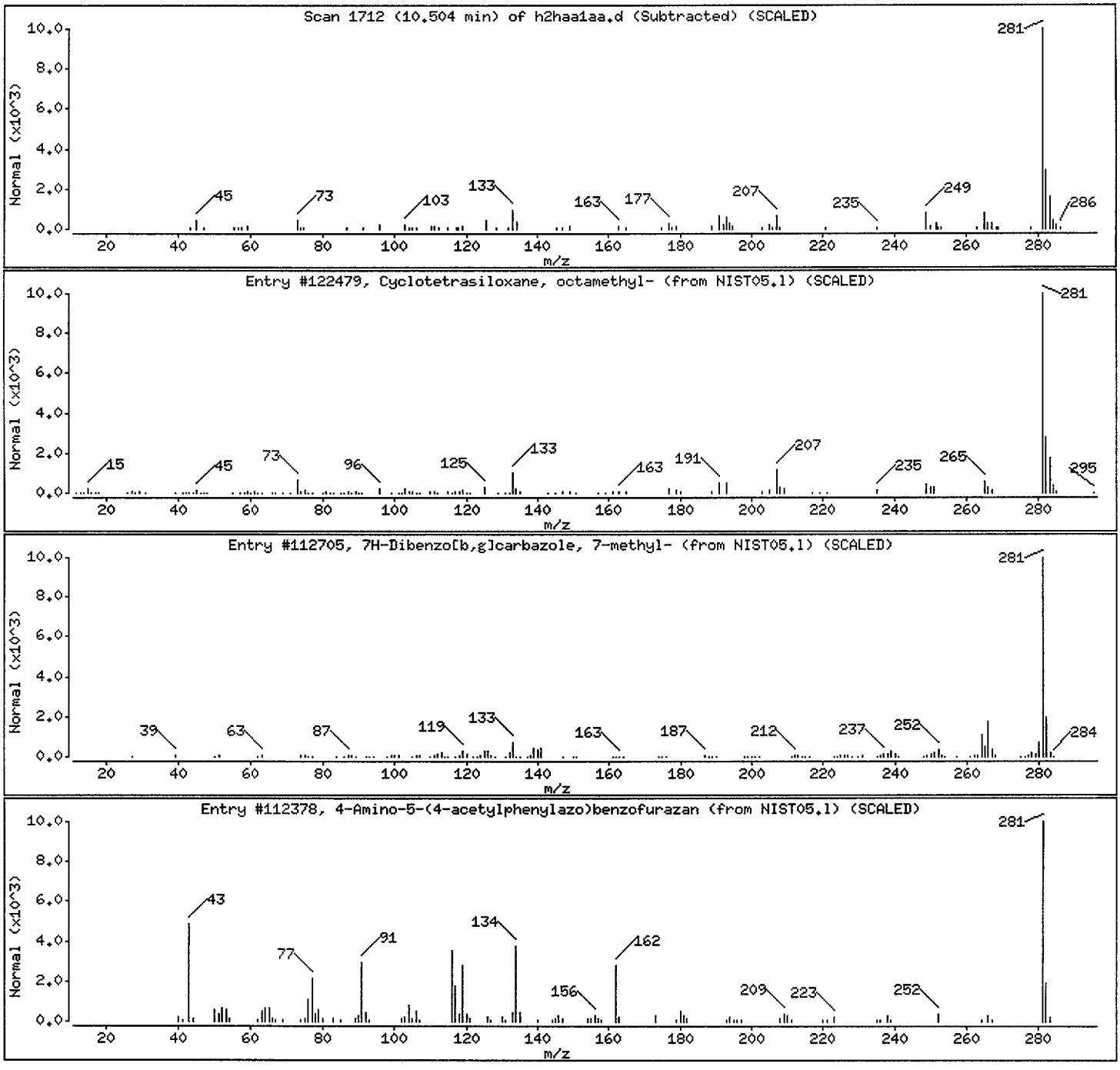
Sample Info: H2HAA1AA,1,0,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotetrasiloxane, octamethyl-	556-67-2	NIST05.l	122479	90	C8H24O4Si4	296
7H-Dibenzo[b,g]carbazole, 7-methyl-	3557-49-1	NIST05.l	112705	56	C21H15N	281
4-Amino-5-(4-acetylphenylazo)benzofuraza	166766-09-2	NIST05.l	112378	50	C14H11N5O2	281



STL Knoxville - ACS

Client Sample ID: G-3014-R2-VOST CONDENSATE

GC/MS Volatiles

Lot-Sample #...: H6D030169-020 **Work Order #...:** H2HAD1AA **Matrix.....:** WATER
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**4.7 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	ND	1.0	ug/L	0.10
Bromoform	ND	1.0	ug/L	0.14
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	ND	1.0	ug/L	0.20
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.10
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	**0.12 J**	**1.0**	**ug/L**	**0.10**
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3014-R2-VOST CONDENSATE

GC/MS Volatiles

Lot-Sample #...: H6D030169-020 **Work Order #...:** H2HAD1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**1.1 J**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	**0.15 J**	**1.0**	**ug/L**	**0.10**
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	109	(79 - 120)
1,2-Dichloroethane-d4	111	(71 - 127)
Toluene-d8	103	(80 - 120)
Bromofluorobenzene	90	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3014-R2-VOST CONDENSATE

GC/MS Volatiles

Lot-Sample #: H6D030169-020 **Work Order #:** H2HAD1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

Data File: /chem/gcms/mz.i/Z040506.b/h2had1aa.d
Report Date: 05-Apr-2006 19:16

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040506.b/h2had1aa.d
Lab Smp Id: H2HAD1AA Client Smp ID: G-3014-R2-VOST COND
Inj Date : 05-APR-2006 18:59
Operator : 063605 Inst ID: mz.i
Smp Info : H2HAD1AA,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 05-Apr-2006 15:47 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
* 1 Fluorobenzene	96	5.666	5.667	(1.000)	934352	10.0000	
* 2 Chlorobenzene-d5	119	8.933	8.933	(1.000)	165161	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.488	11.488	(1.000)	218898	10.0000	
$ 5 1,2-Dichloroethane-d4	65	5.234	5.229	(0.924)	143196	11.0605	11.060
$ 4 Dibromofluoromethane	113	4.827	4.821	(0.852)	162680	10.8658	10.866
$ 6 Toluene-d8	98	7.461	7.455	(0.835)	748316	10.3118	10.312
$ 7 4-Bromofluorobenzene	95	10.125	10.126	(0.881)	199574	9.04034	9.0403
15 Bromomethane	94	1.420	1.414	(0.251)	903	0.92487	0.92487
22 Acetone	43	2.138	2.126	(0.377)	7533	4.66126	4.6612
23 *Iodomethane	142	2.193	2.181	(0.387)	1129	0.56860	0.56860
27 Methylene Chloride	84	2.503	2.503	(0.442)	17021	1.08924	1.0892
45 1,2-Dichloroethane	62	5.326	5.326	(0.940)	2248	0.11525	0.11525
53 4-Methyl-2-pentanone	43	7.455	7.376	(1.316)	5871	0.71963	0.71962
54 Toluene (ccc)	91	7.528	7.522	(0.843)	13651	0.14523	0.14523

Data File: /chem/gcms/mz.i/Z040506.b/h2had1aa.d
Report Date: 05-Apr-2006 19:16

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
55 trans-1,3-Dichloropropene	75	7.479	7.784	(0.837)	80	~~0.63065~~	~~0.63065~~

MM 4/7/06

Data File: /chem/gcms/mz.i/Z040506.b/h2had1aa.d
Report Date: 05-Apr-2006 19:16

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2had1aa.d
Lab Smp Id: H2HAD1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Calibration Date: 05-APR-2006
Calibration Time: 14:42
Client Smp ID: G-3014-R2-VOST COND
Level: LOW
Sample Type: WATER
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,focus.sub

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1078707	539354	2157414	934352	-13.38
2 Chlorobenzene-d5	188899	94450	377798	165161	-12.57
3 1,4 Dichlorobenze	220143	110072	440286	218898	-0.57

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.67	5.17	6.17	5.67	-0.01
2 Chlorobenzene-d5	8.93	8.43	9.43	8.93	0.00
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	0.00

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

Data File: /chem/gcms/mz.i/Z040506.b/h2had1aa.d
Report Date: 05-Apr-2006 19:16

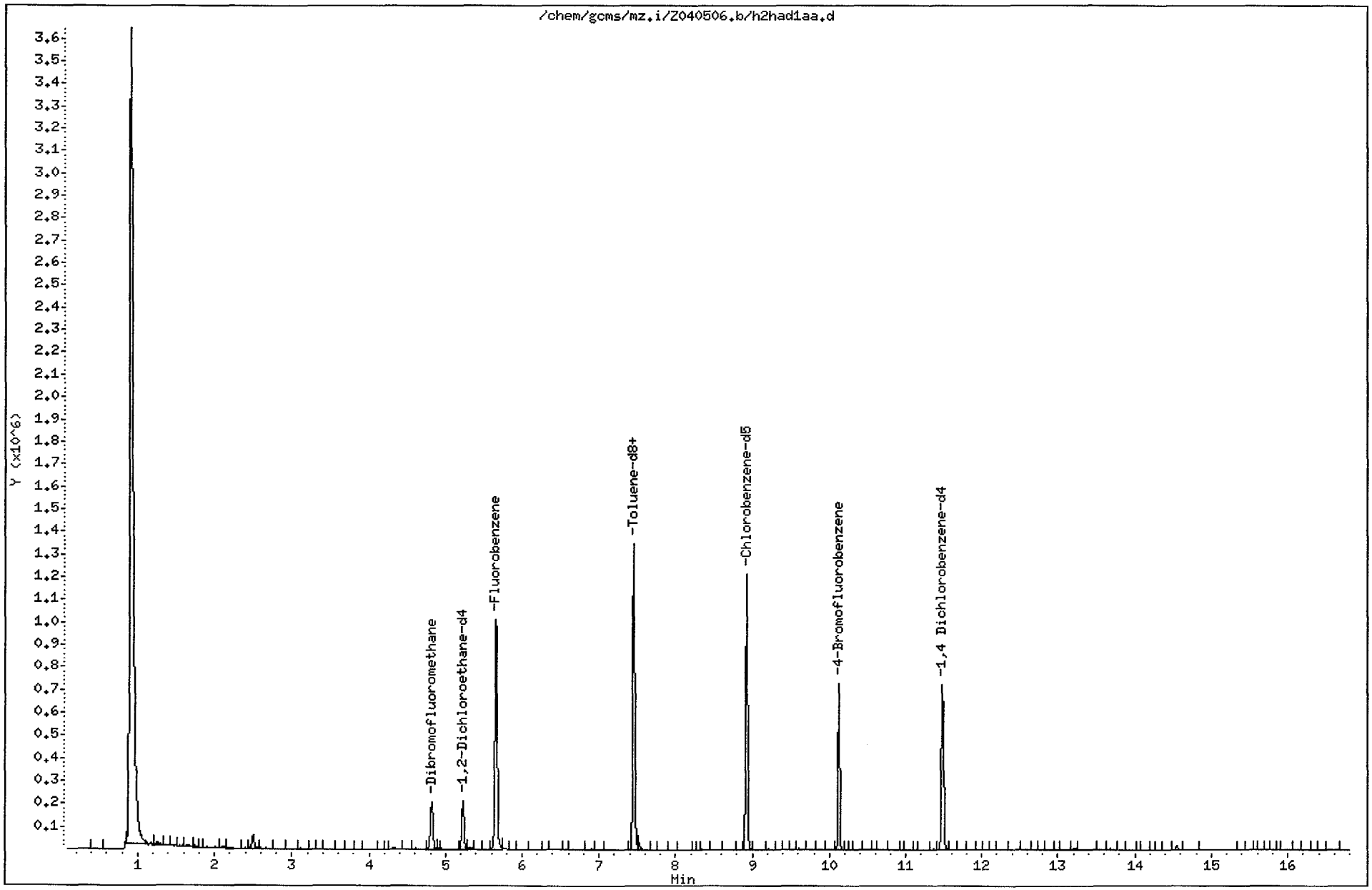
STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030169
Sample Matrix: LIQUID
Fraction: VOA
Lab Smp Id: H2HAD1AA
Client Smp ID: G-3014-R2-VOST COND
Level: LOW
Operator: 063605
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allcmpds.spk
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,focus.sub

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 5 1,2-Dichloroethane	10.000	11.060	110.60	71-127
$ 4 Dibromofluorometha	10.000	10.866	108.66	79-120
$ 6 Toluene-d8	10.000	10.312	103.12	80-120
$ 7 4-Bromofluorobenze	10.000	9.0403	90.40	69-126

Data File: /chem/gcms/mz.i/Z040506.b/h2had1aa.d
Date : 05-APR-2006 18:59
Client ID: G-3014-R2-VOST COND
Instrument: mz.i
Sample Info: H2HAD1AA,1,0,,
Purge Volume: 25.0
Operator: 063605
Column phase: J+W 624
Column diameter: 0.18



Data File: /chem/gcms/mz.i/Z040506.b/h2had1aa.d

Date : 05-APR-2006 18:59

Client ID: G-3014-R2-VOST COND

Instrument: mz.i

Sample Info: H2HAD1AA,1,0,,

Purge Volume: 25.0

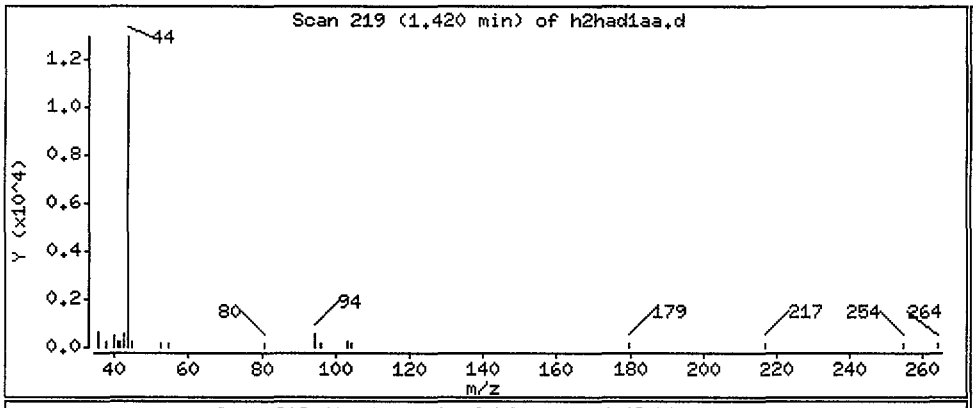
Operator: 063605

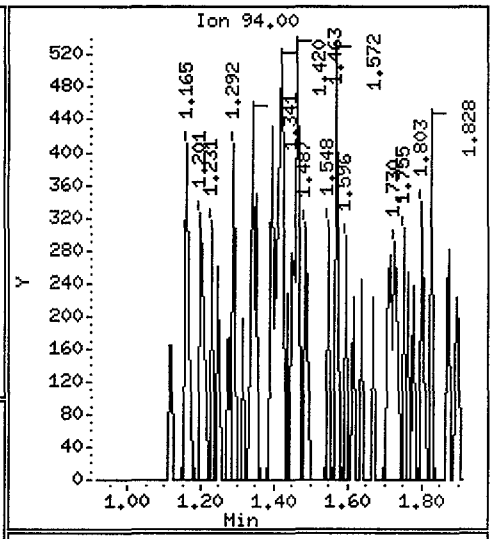
Column phase: J+W 624

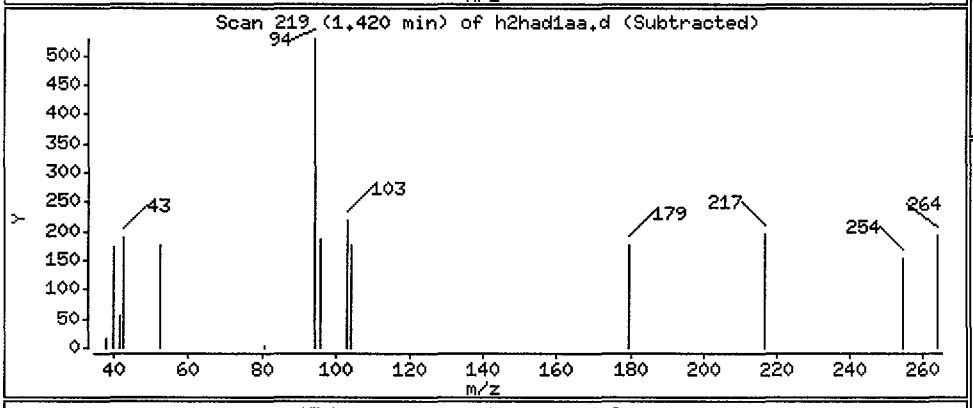
Column diameter: 0.18

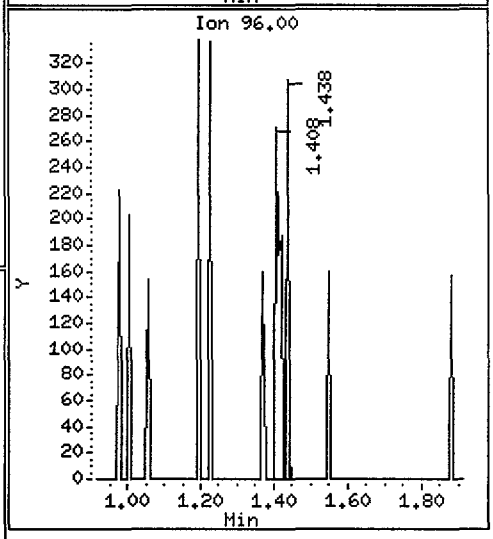
15 Bromomethane

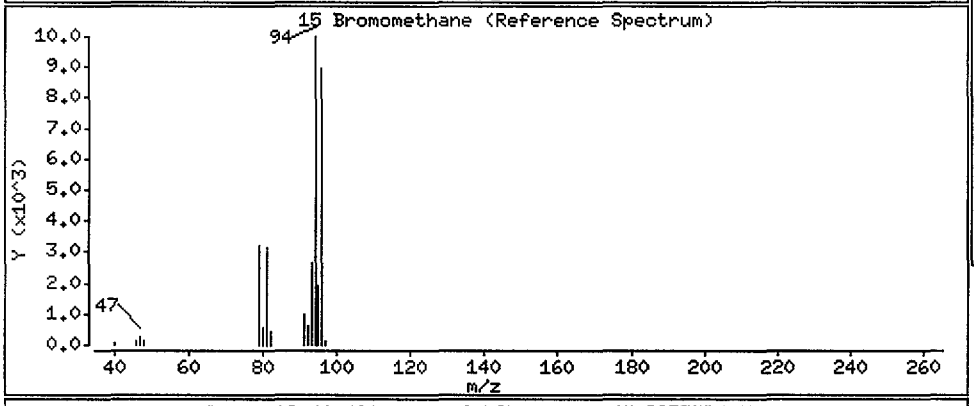
Concentration: 0.92487 ug/L

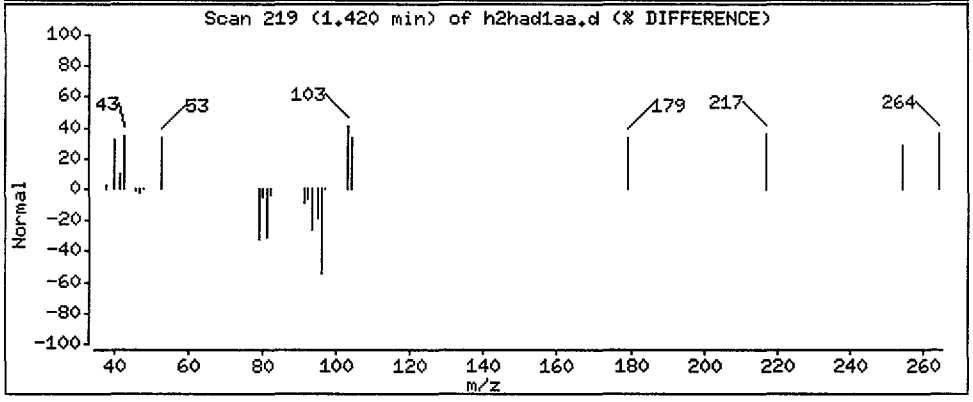












Data File: /chem/gcms/mz.i/Z040506.b/h2had1aa.d

Date : 05-APR-2006 18:59

Client ID: G-3014-R2-VOST COND

Instrument: mz.i

Sample Info: H2HAD1AA,1,0,,

Purge Volume: 25.0

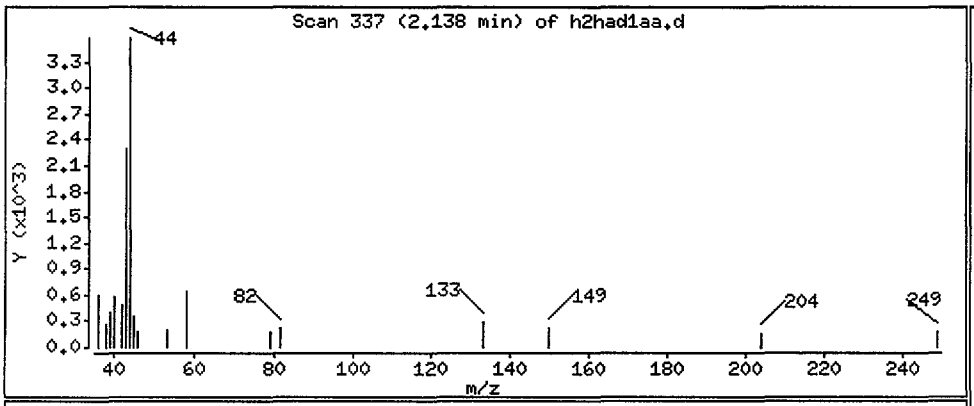
Operator: 063605

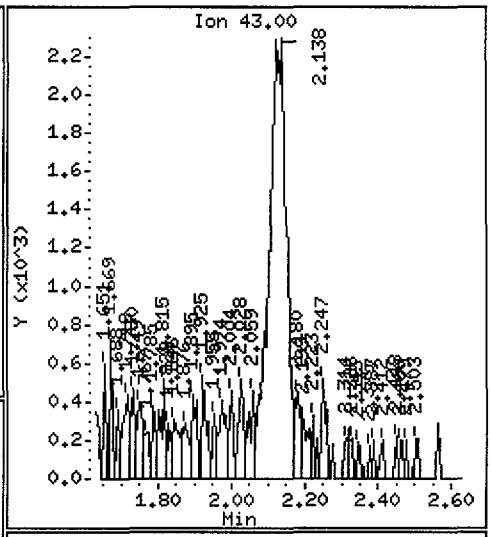
Column phase: J+W 624

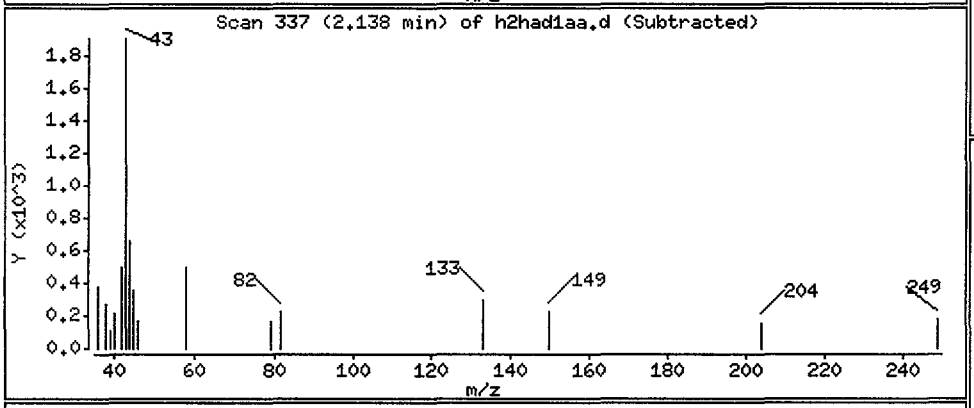
Column diameter: 0.18

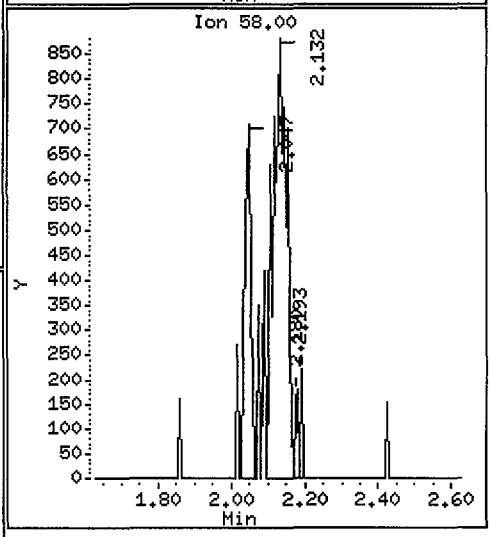
22 Acetone

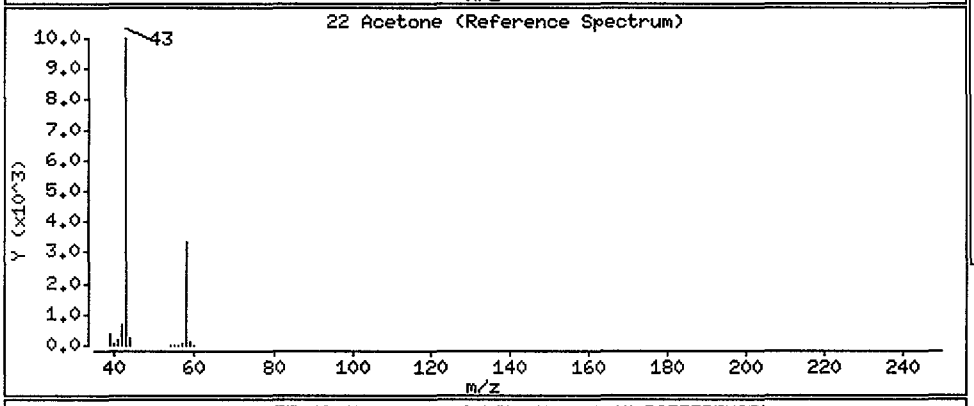
Concentration: 4.6612 ug/L

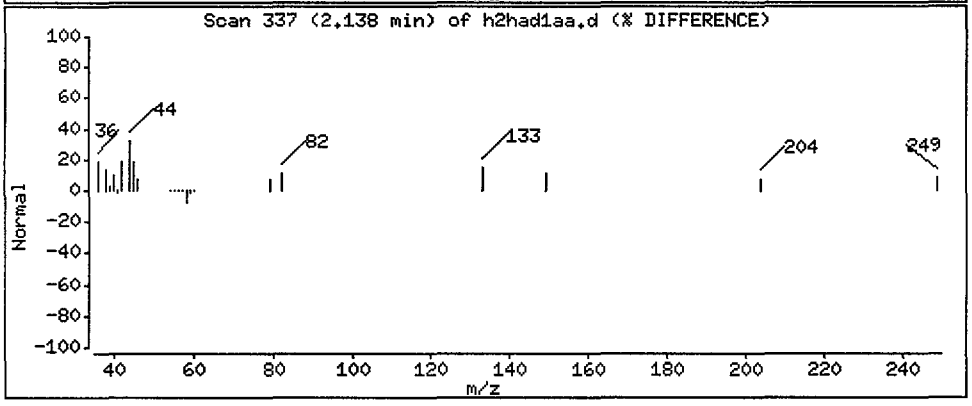












Data File: /chem/gcms/mz.i/Z040506.b/h2had1aa.d

Date : 05-APR-2006 18:59

Client ID: G-3014-R2-VOST COND

Instrument: mz.i

Sample Info: H2HAD1AA,1,0,,

Purge Volume: 25.0

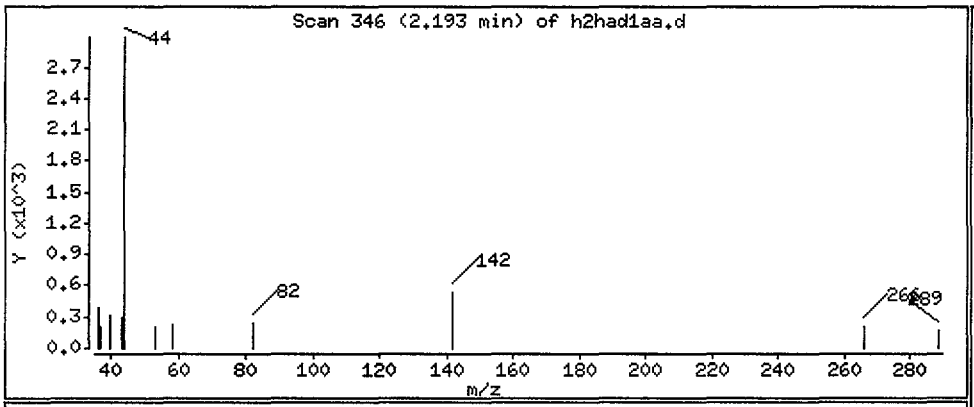
Operator: 063605

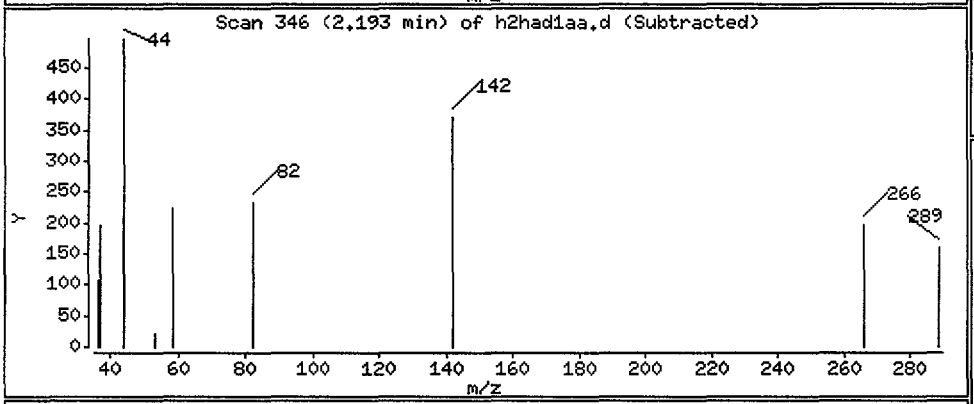
Column phase: J+W 624

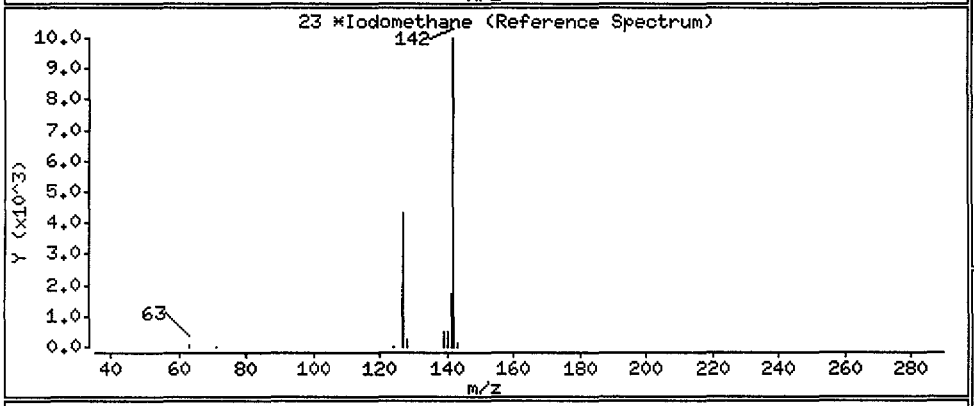
Column diameter: 0.18

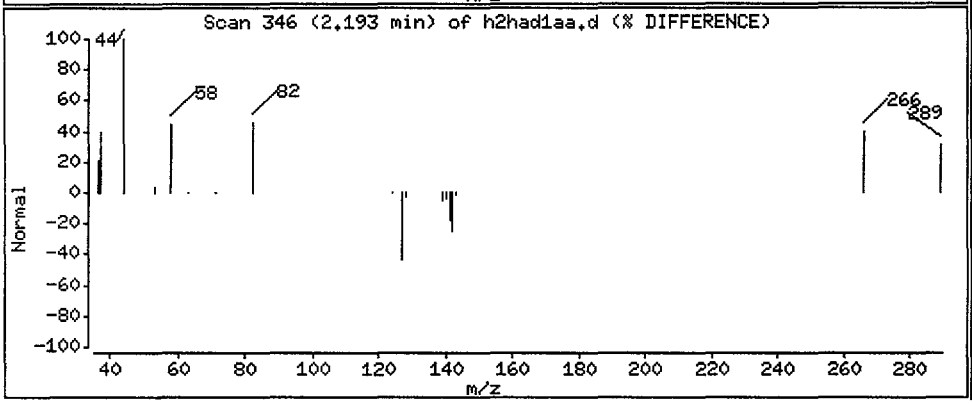
23 *Iodomethane

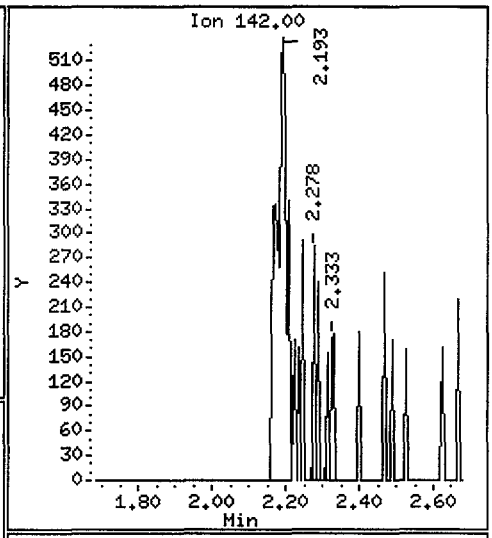
Concentration: 0.56860 ug/L

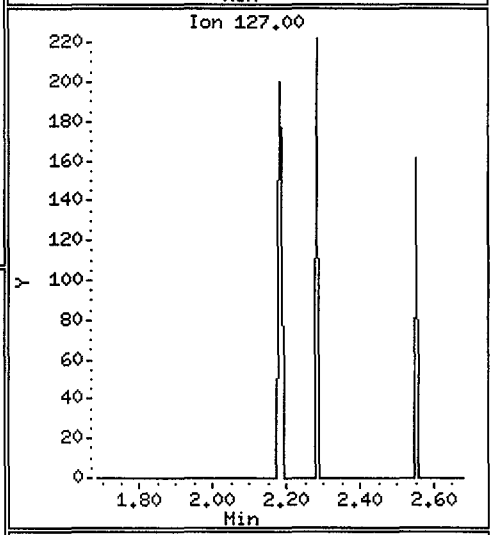


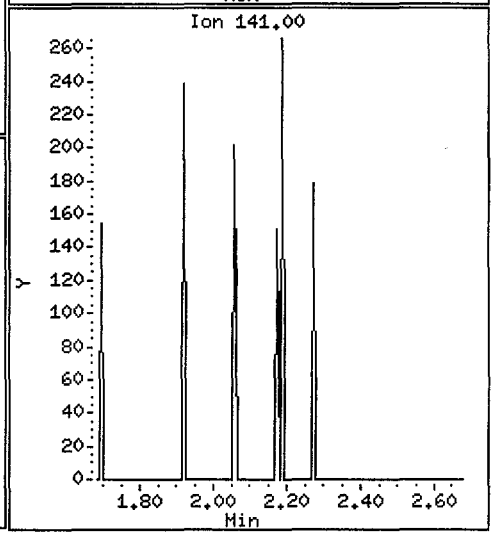












Data File: /chem/gcms/mz.i/Z040506.b/h2had1aa.d

Date : 05-APR-2006 18:59

Client ID: G-3014-R2-VOST COND

Instrument: mz.i

Sample Info: H2HAD1AA,1,0,,

Purge Volume: 25.0

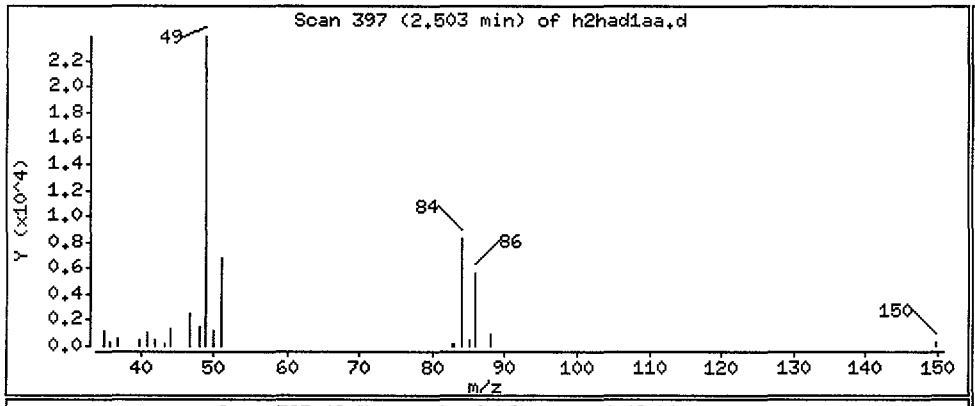
Operator: 063605

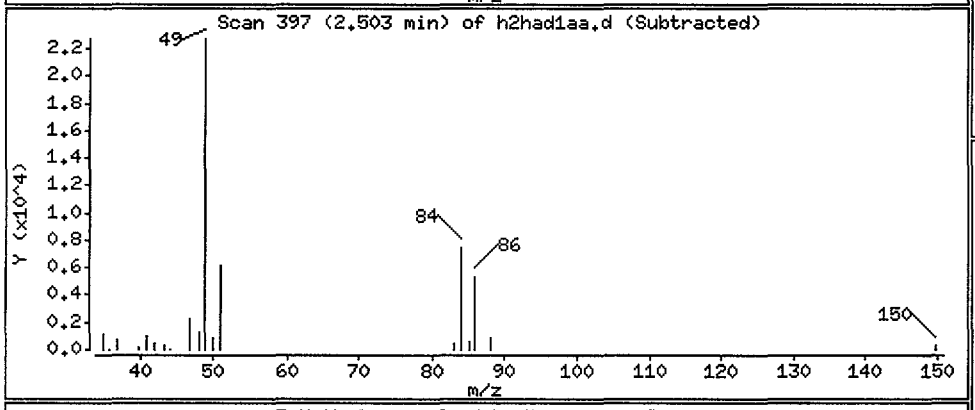
Column phase: J+W 624

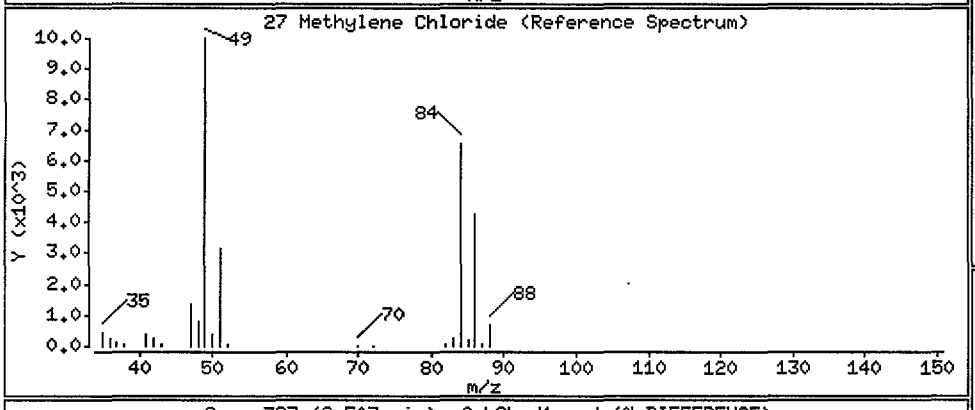
Column diameter: 0.18

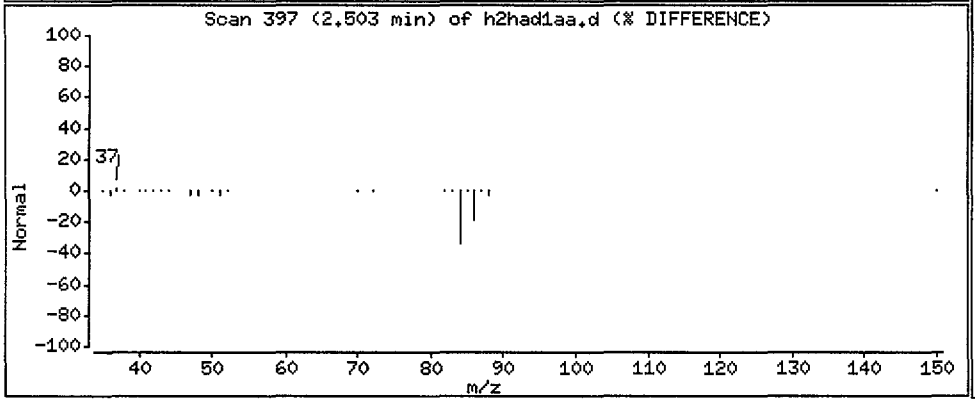
27 Methylene Chloride

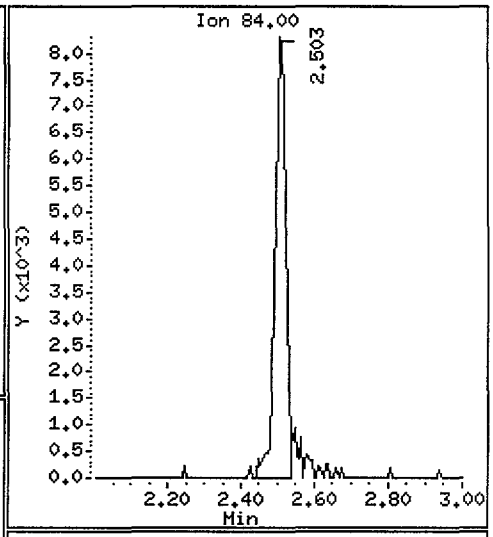
Concentration: 1.0892 ug/L

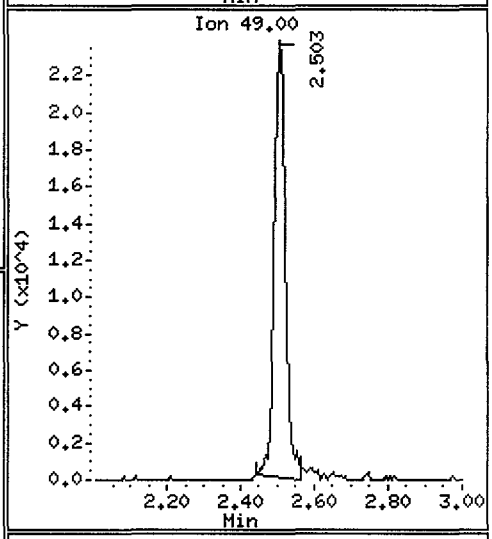


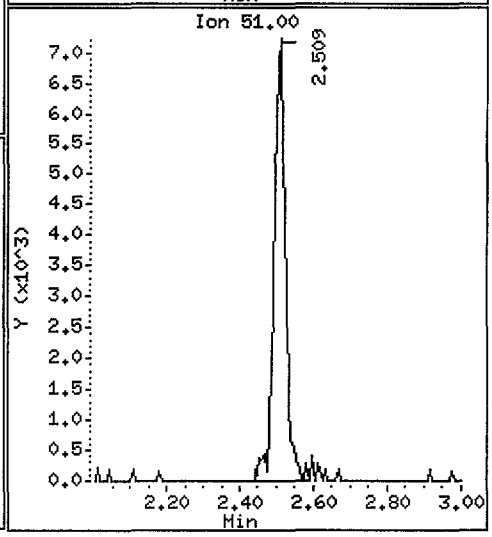












Data File: /chem/gcms/mz.i/Z040506.b/h2had1aa.d

Date : 05-APR-2006 18:59

Client ID: G-3014-R2-VOST COND

Instrument: mz.i

Sample Info: H2HAD1AA,1,0,,

Purge Volume: 25.0

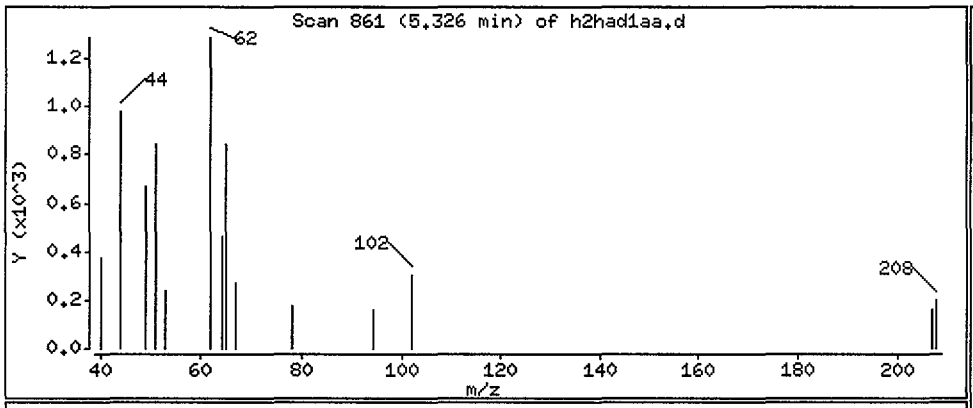
Operator: 063605

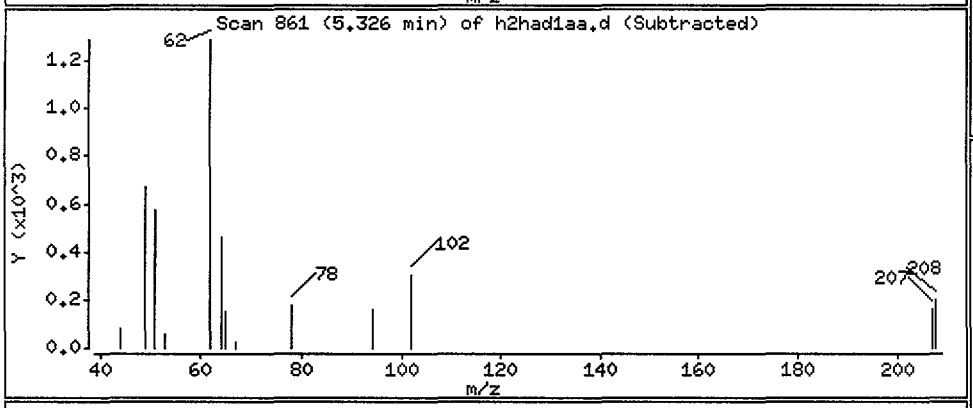
Column phase: J+W 624

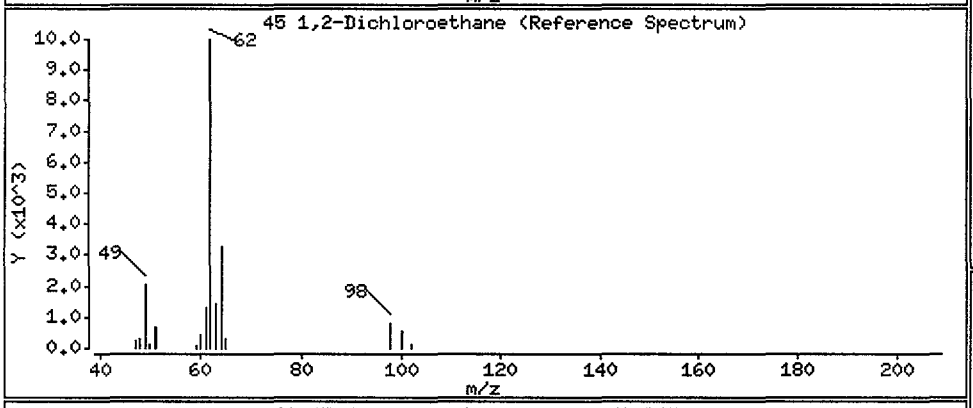
Column diameter: 0.18

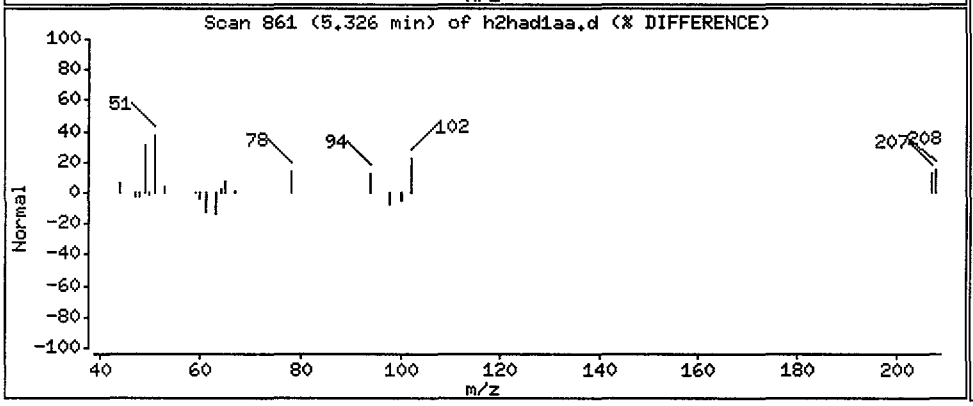
45 1,2-Dichloroethane

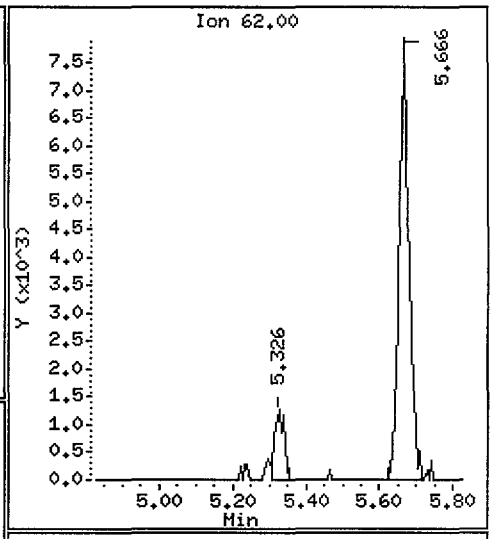
Concentration: 0.11525 ug/L

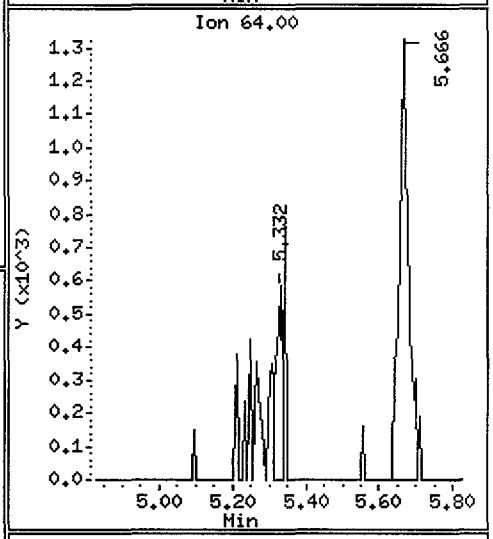


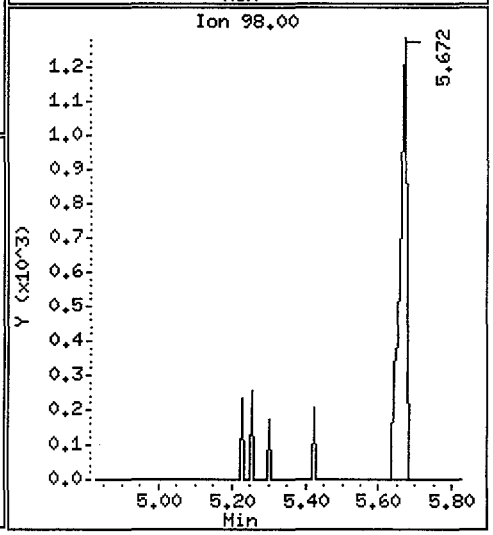












Data File: /chem/gcms/mz.i/Z040506.b/h2had1aa.d

Date : 05-APR-2006 18:59

Client ID: G-3014-R2-VOST COND

Instrument: mz.i

Sample Info: H2HAD1AA,1,0,,

Purge Volume: 25.0

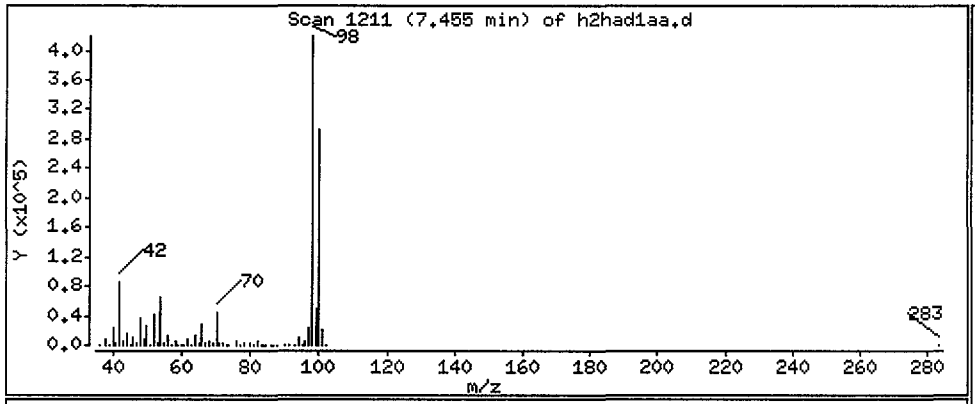
Operator: 063605

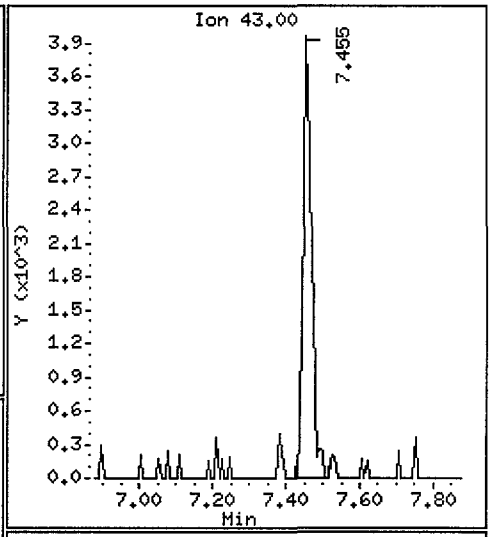
Column phase: J+W 624

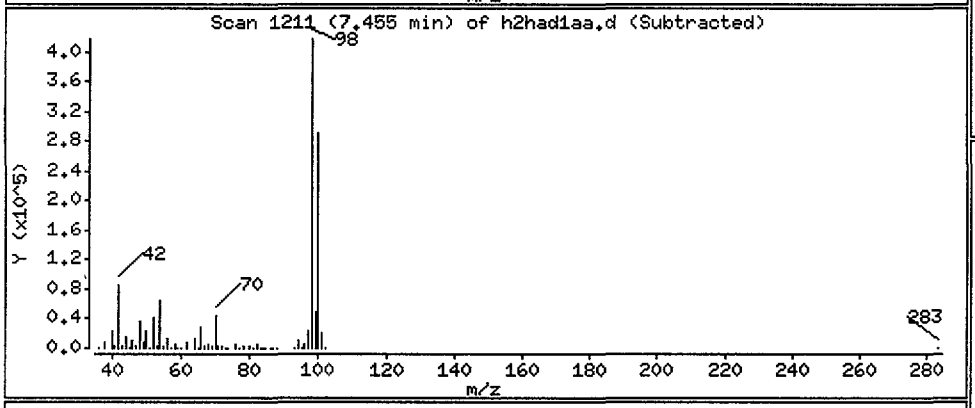
Column diameter: 0.18

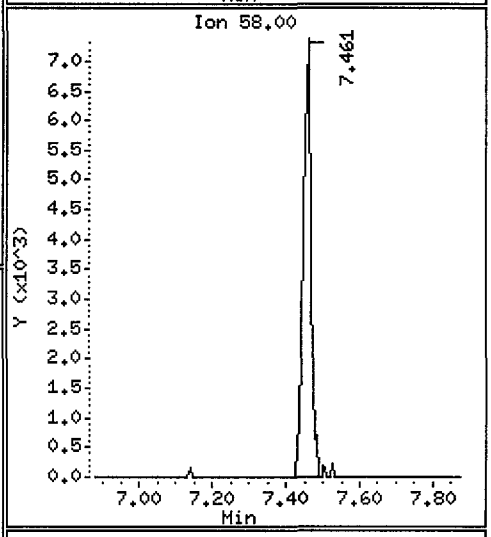
53 4-Methyl-2-pentanone

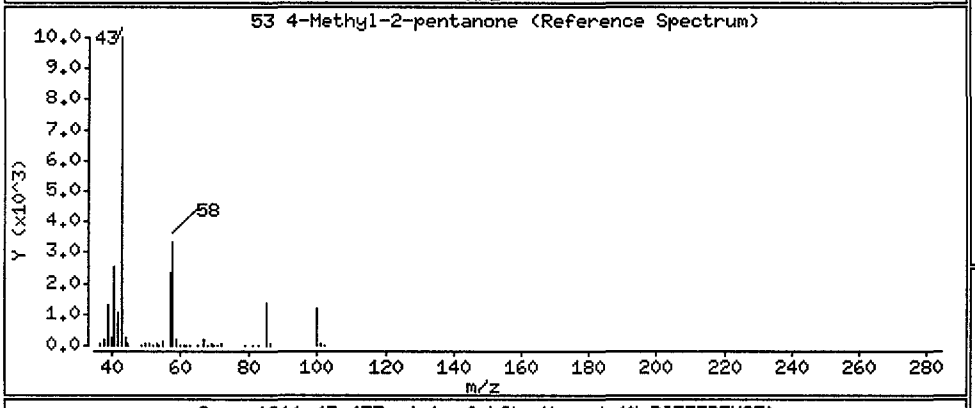
Concentration: 0.71962 ug/L

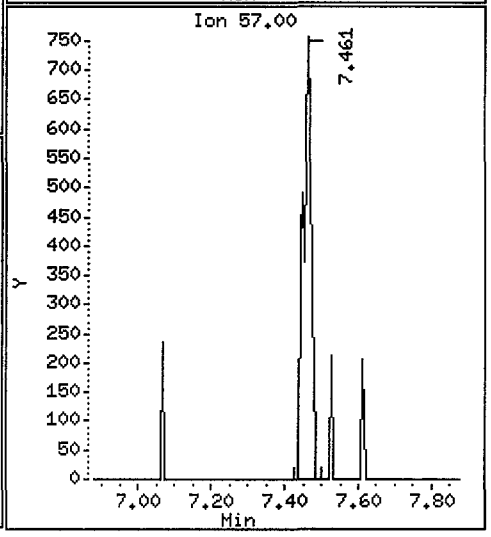


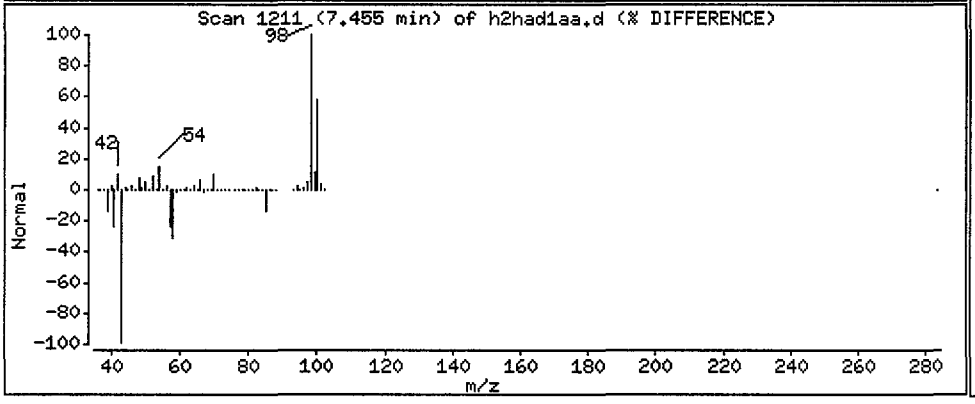












Data File: /chem/gcms/mz.i/Z040506.b/h2had1aa.d

Date : 05-APR-2006 18:59

Client ID: G-3014-R2-VOST COND

Instrument: mz.i

Sample Info: H2HAD1AA,1,0,,

Purge Volume: 25.0

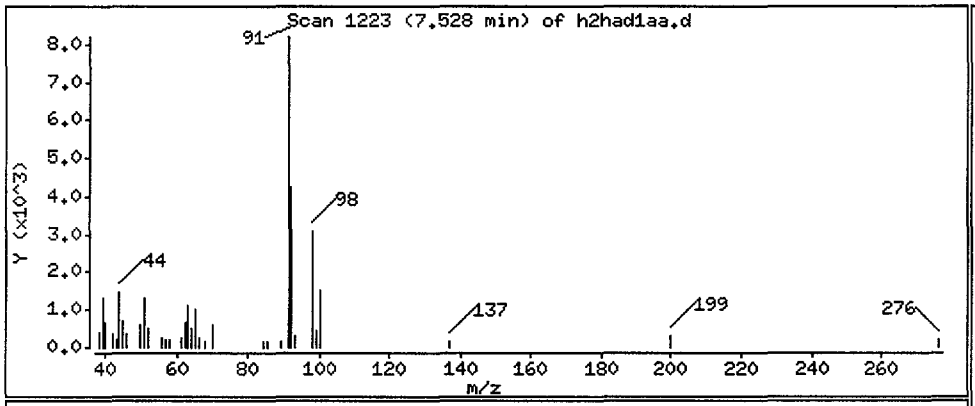
Operator: 063605

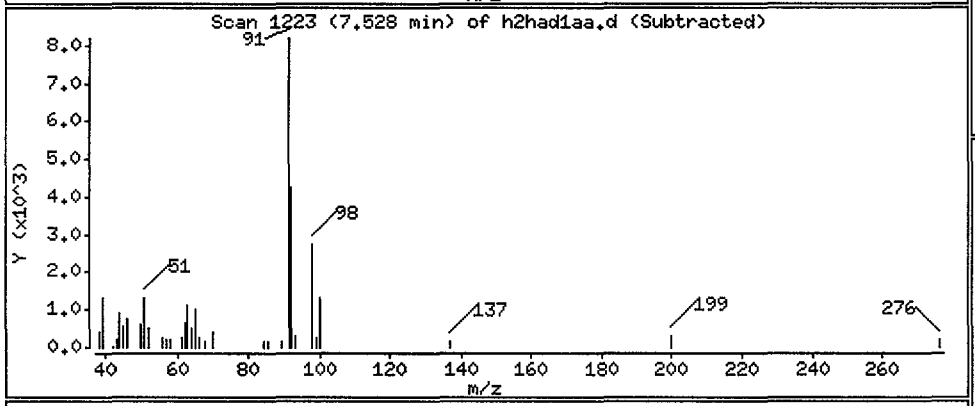
Column phase: J+W 624

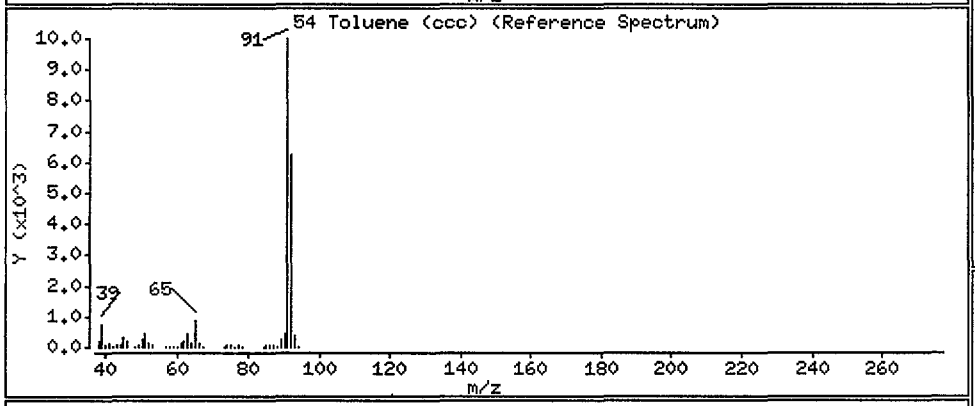
Column diameter: 0.18

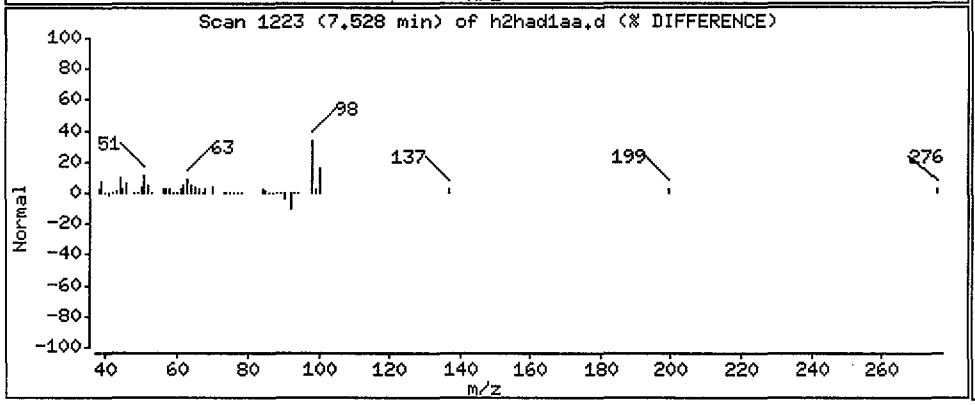
54 Toluene (ccc)

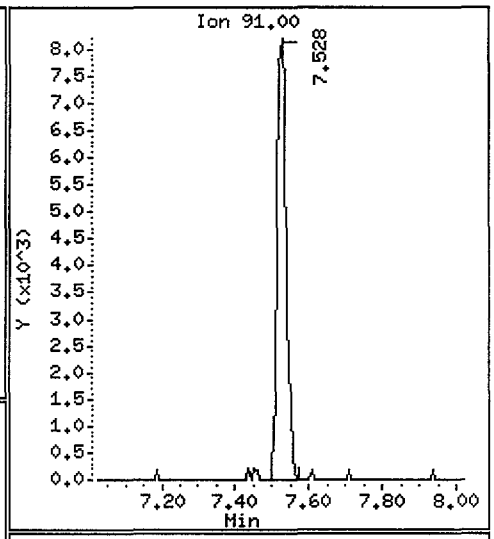
Concentration: 0.14523 ug/L

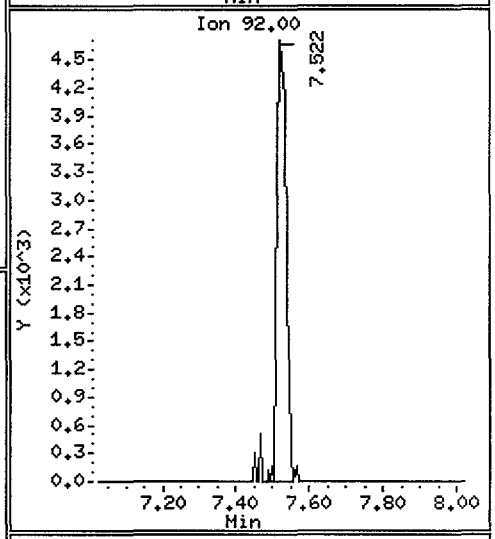


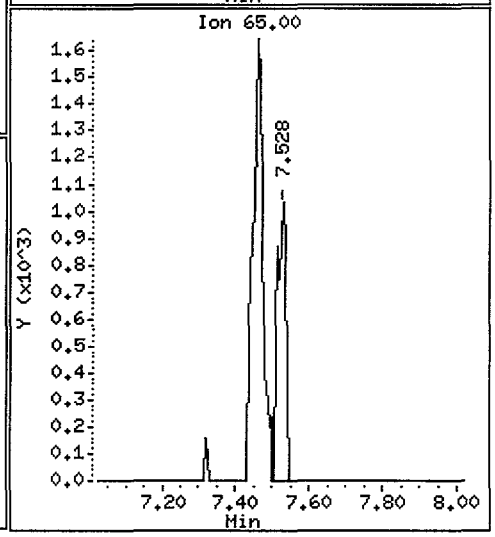












Data File: /chem/gcms/mz.i/Z040506.b/h2had1aa.d

Date : 05-APR-2006 18:59

Client ID: G-3014-R2-VOST COND

Instrument: mz.i

Sample Info: H2HAD1AA,1,0,,

Purge Volume: 25.0

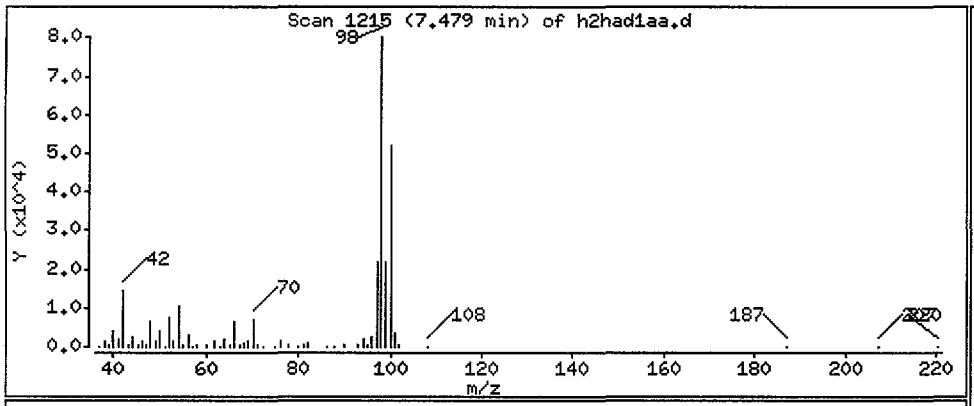
Operator: 063605

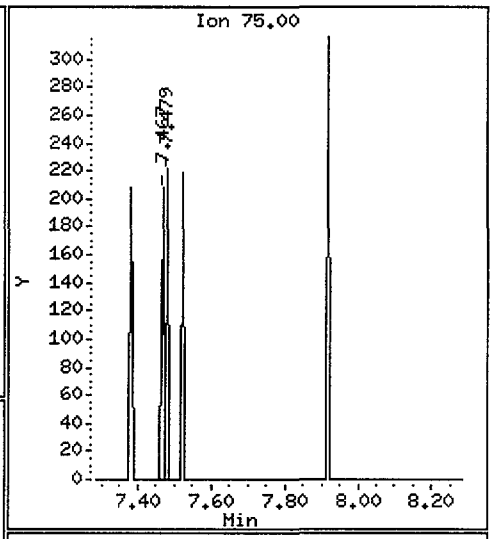
Column phase: J+W 624

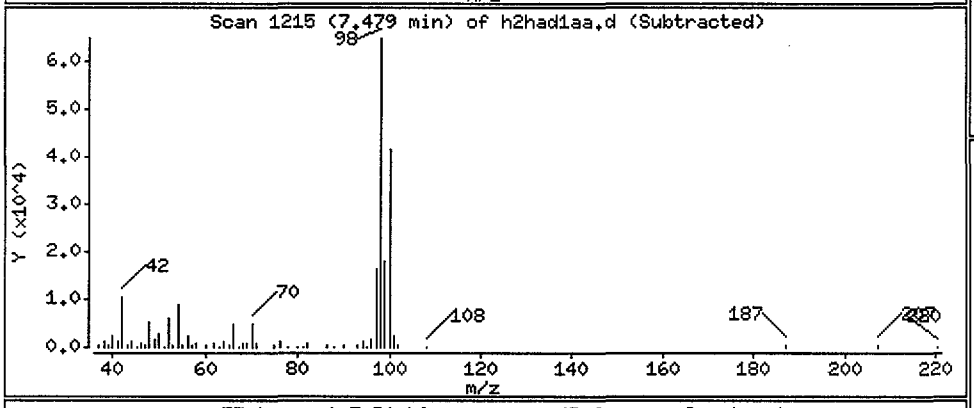
Column diameter: 0.18

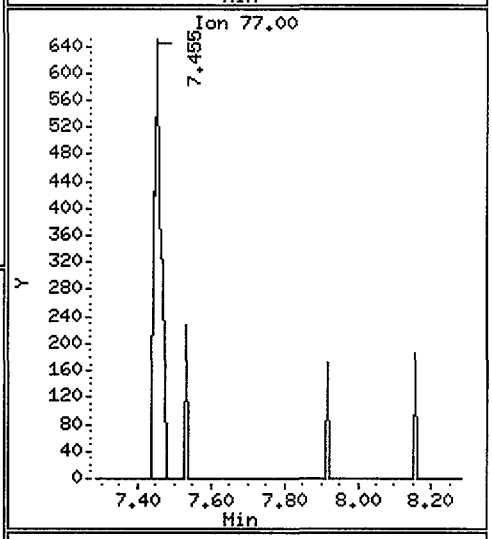
55 trans-1,3-Dichloropropene

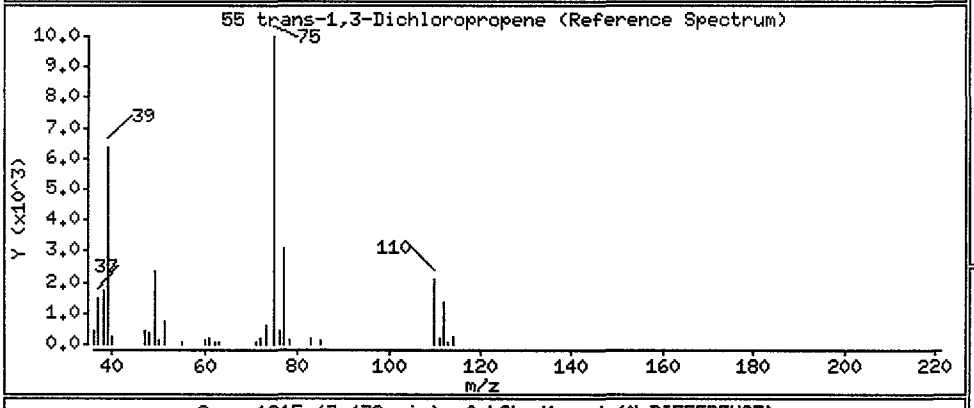
Concentration: 0.63065 ug/L

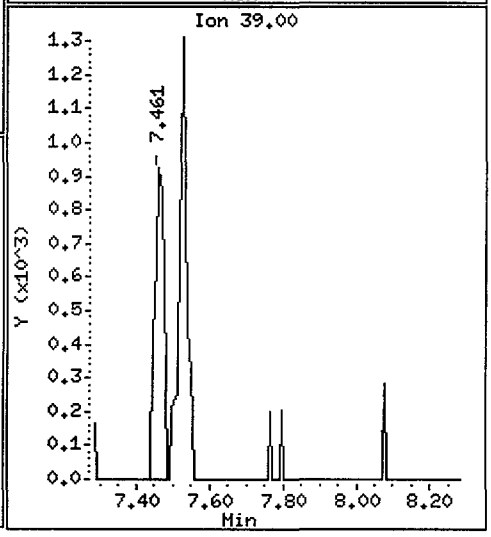


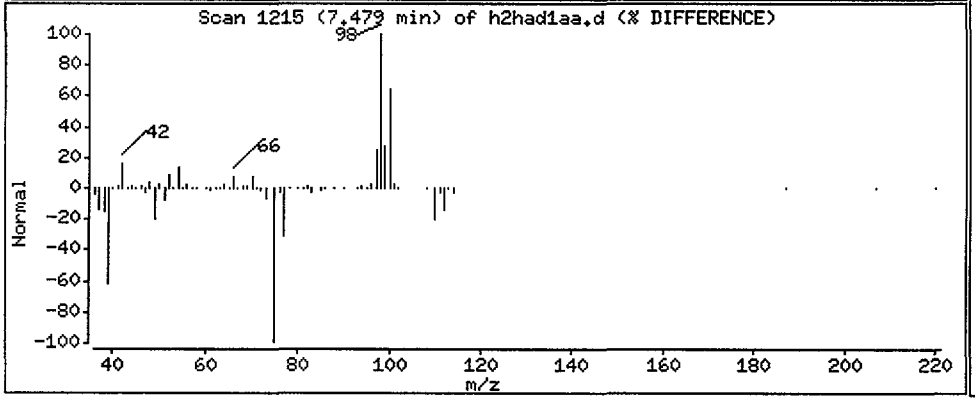












Data File: /var/chem/gcms/mz.i/Z040506.b/h2had1aa.d
Report Date: 07-Apr-2006 14:34

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040506.b/h2had1aa.d
Lab Smp Id: H2HAD1AA Client Smp ID: G-3014-R2-VOST COND
Inj Date : 05-APR-2006 18:59
Operator : 063605 Inst ID: mz.i
Smp Info : H2HAD1AA,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 06-Apr-2006 17:11 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.666	1005229	10.000

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide				CAS #: 124-38-9			
0.909	3624321	36.0546801	36.055	5	NIST05.1	80	1

Air

MT 4/7/06

Data File: /var/chem/gcms/mz.i/Z040506.b/h2had1aa.d

Date : 05-APR-2006 18:59

Client ID: G-3014-R2-VOST COND

Instrument: mz.i

Sample Info: H2HAD1AA,1,0,,

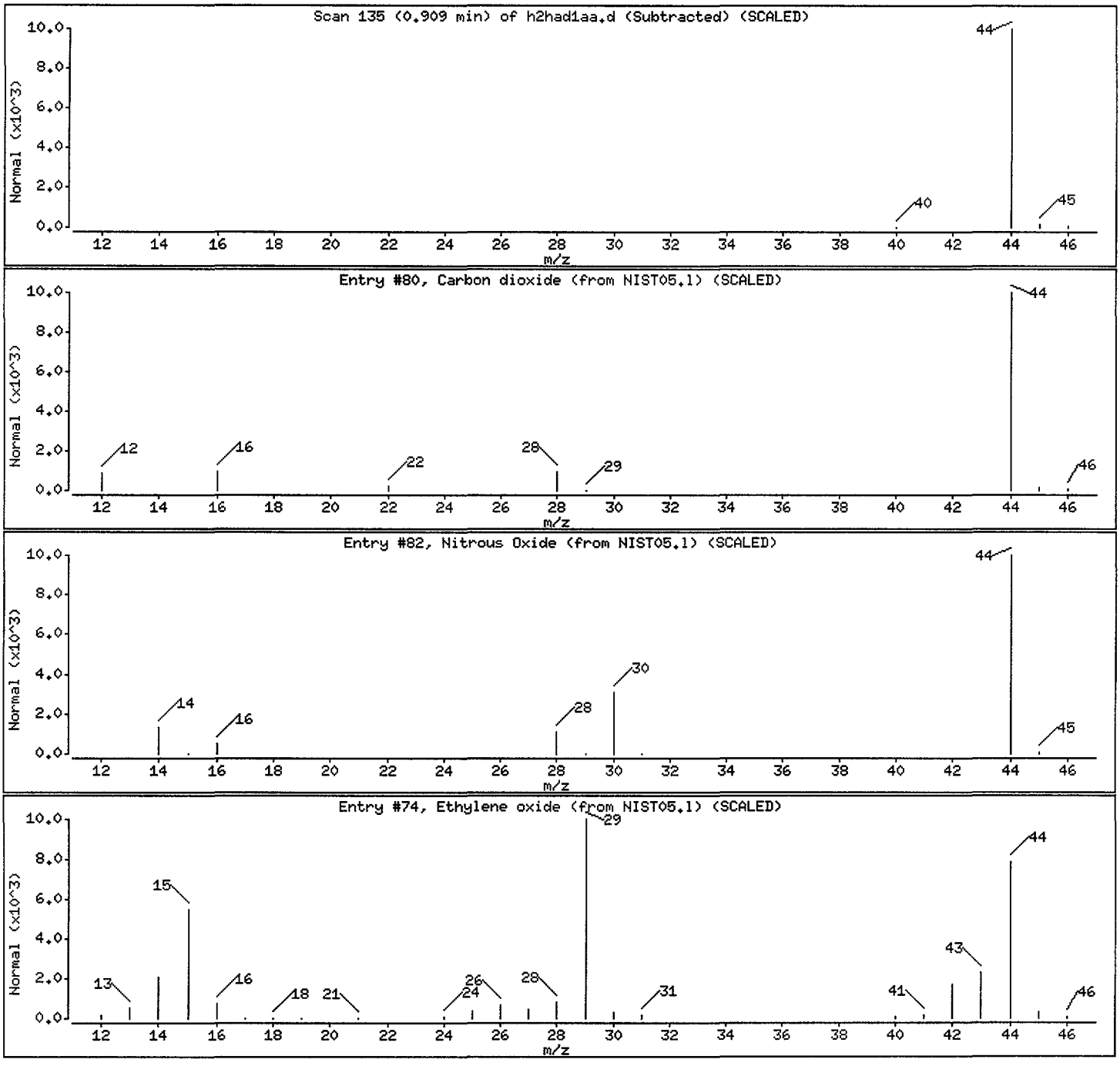
Purge Volume: 25.0

Operator: 063605

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.1	80	5	CO2	44
Nitrous Oxide	10024-97-2	NIST05.1	82	3	N2O	44
Ethylene oxide	75-21-8	NIST05.1	74	2	C2H4O	44



STL Knoxville - ACS

Client Sample ID: G-3014-R2-VOST CONDENSATE DUP

GC/MS Volatiles

Lot-Sample #...: H6D030169-020 **Work Order #...:** H2HAD1AC **Matrix.....:** WATER
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**4.8 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	ND	1.0	ug/L	0.10
Bromoform	ND	1.0	ug/L	0.14
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	ND	1.0	ug/L	0.20
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.10
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3014-R2-VOST CONDENSATE DUP

GC/MS Volatiles

Lot-Sample #...: H6D030169-020 **Work Order #...:** H2HAD1AC **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	**0.55 J,B**	**2.0**	**ug/L**	**0.12**
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	ND	2.0	ug/L	0.23
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	ND	1.0	ug/L	0.10
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	111	(79 - 120)
1,2-Dichloroethane-d4	115	(71 - 127)
Toluene-d8	101	(80 - 120)
Bromofluorobenzene	93	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Data File: /chem/gcms/mz.i/Z040506.b/h2had1ac.d
Report Date: 05-Apr-2006 20:27

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040506.b/h2had1ac.d
Lab Smp Id: H2HAD1AC Client Smp ID: G-3014-R2-VOST COND
Inj Date : 05-APR-2006 20:09
Operator : 063605 Inst ID: mz.i
Smp Info : H2HAD1AC,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 05-Apr-2006 15:47 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1 QC Sample: SAMPLE DUPLICATE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

04/7/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.667	5.667	(1.000)	907760	10.0000	
* 2 Chlorobenzene-d5	119	8.934	8.933	(1.000)	170735	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.489	11.488	(1.000)	212717	10.0000	
$ 5 1,2-Dichloroethane-d4	65	5.235	5.229	(0.924)	144509	11.4888	11.489
$ 4 Dibromofluoromethane	113	4.821	4.821	(0.851)	161828	11.1256	11.126
$ 6 Toluene-d8	98	7.455	7.455	(0.835)	758641	10.1128	10.113
$ 7 4-Bromofluorobenzene	95	10.120	10.126	(0.881)	199141	9.28284	9.2828
15 Bromomethane	94	1.408	1.414	(0.249)	848	~~0.92195~~	~~0.92194~~
22 Acetone	43	2.126	2.126	(0.375)	8183	4.84718	4.8472
23 *Iodomethane	142	2.187	2.181	(0.386)	549	0.54542	0.54542
45 1,2-Dichloroethane	62	5.661	5.326	(0.999)	16677	~~0.87981~~	~~0.87981~~
53 4-Methyl-2-pentanone	43	7.455	7.376	(1.316)	6508	~~0.82097~~	~~0.82097~~
55 trans-1,3-Dichloropropene	75	7.468	7.784	(0.836)	255	~~0.64172~~	~~0.64172~~

4/7/06

Data File: /chem/gcms/mz.i/Z040506.b/h2had1ac.d
Report Date: 05-Apr-2006 20:27

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2had1ac.d
Lab Smp Id: H2HAD1AC
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,focus.sub

Calibration Date: 05-APR-2006
Calibration Time: 14:42
Client Smp ID: G-3014-R2-VOST COND
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1078707	539354	2157414	907760	-15.85
2 Chlorobenzene-d5	188899	94450	377798	170735	-9.62
3 1,4 Dichlorobenze	220143	110072	440286	212717	-3.37

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.67	5.17	6.17	5.67	0.00
2 Chlorobenzene-d5	8.93	8.43	9.43	8.93	0.00
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	0.00

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

Data File: /chem/gcms/mz.i/Z040506.b/h2had1ac.d
Report Date: 05-Apr-2006 20:27

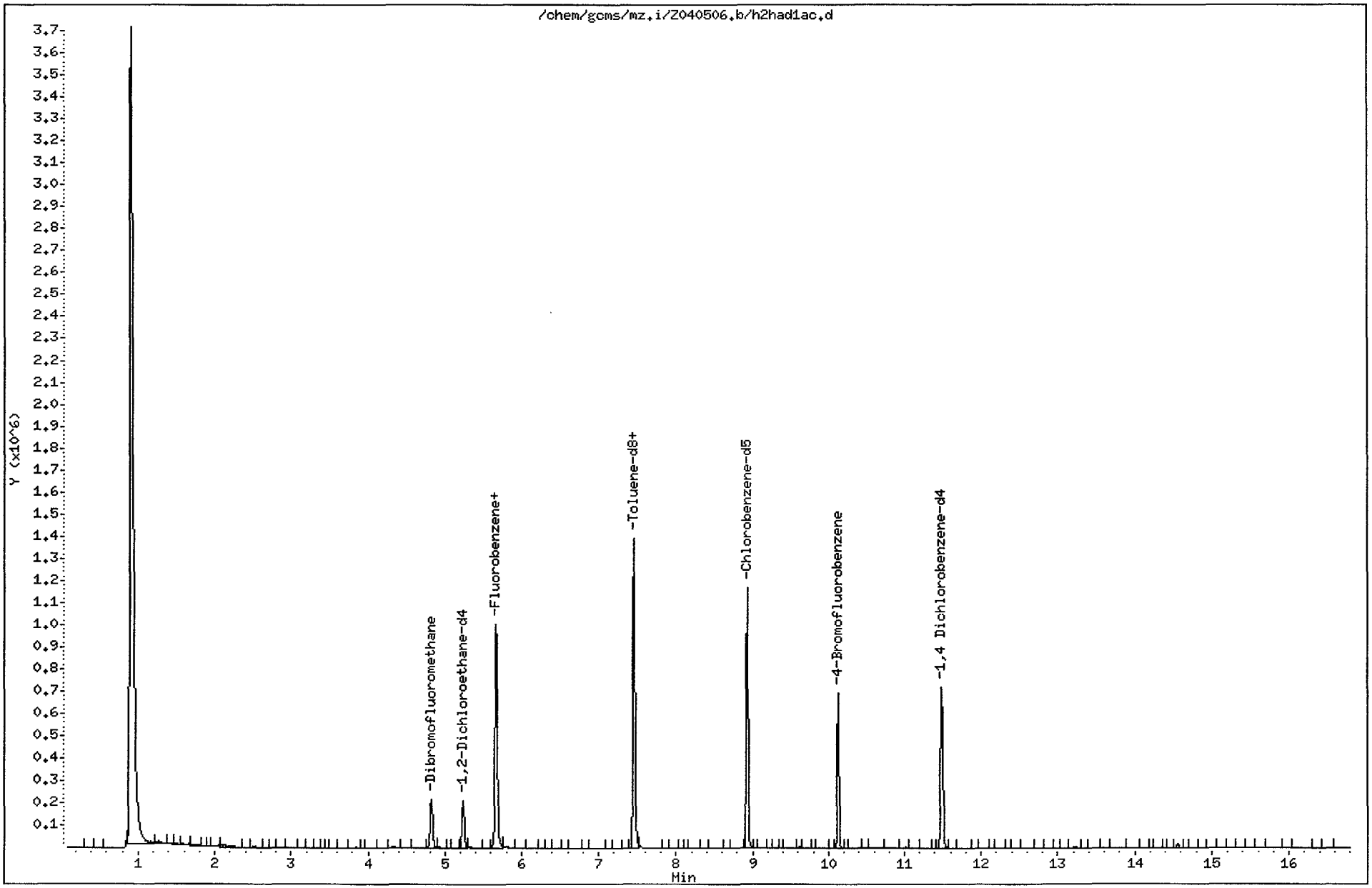
STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030169
Sample Matrix: LIQUID
Fraction: VOA
Lab Smp Id: H2HAD1AC
Client Smp ID: G-3014-R2-VOST COND
Level: LOW
Operator: 063605
Data Type: MS DATA
SampleType: SAMPLE DUPLICATE{♥╚Çz·H @
SpikeList File: allcmpds.spk
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,focus.sub

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 5 1,2-Dichloroethane	10.000	11.489	114.89	71-127
$ 4 Dibromofluorometha	10.000	11.126	111.26	79-120
$ 6 Toluene-d8	10.000	10.113	101.13	80-120
$ 7 4-Bromofluorobenze	10.000	9.2828	92.83	69-126

Data File: /chem/gcms/mz.i/Z040506.b/h2had1ac.d
Date : 05-APR-2006 20:09
Client ID: G-3014-R2-VOST COND
Instrument: mz.i
Sample Info: H2HAD1AC,1,0,,
Purge Volume: 25.0
Operator: 063605
Column phase: J+W 624
Column diameter: 0.18



Data File: /chem/gcms/mz.i/Z040506.b/h2had1ac.d

Date : 05-APR-2006 20:09

Client ID: G-3014-R2-VOST COND

Instrument: mz.i

Sample Info: H2HAD1AC,1,0,,

Purge Volume: 25.0

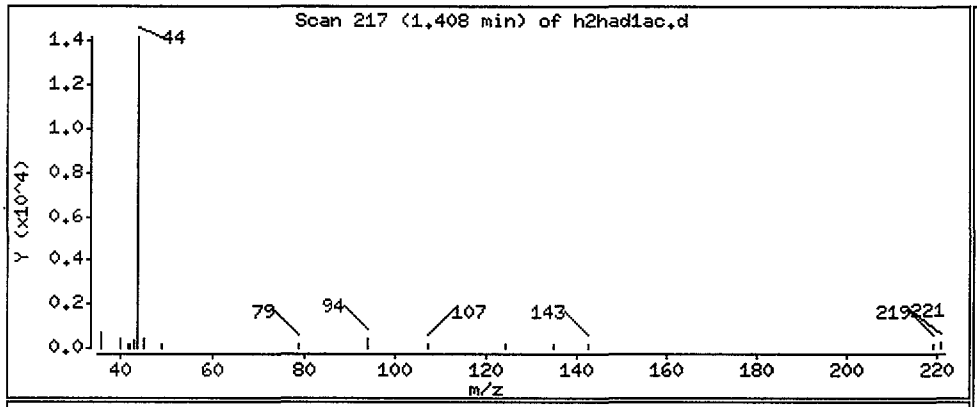
Operator: 063605

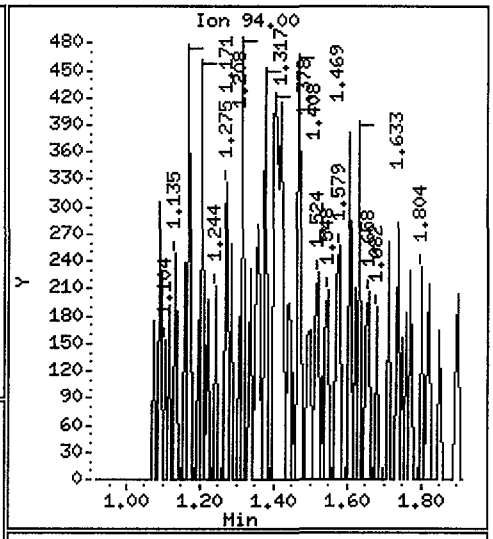
Column phase: J+W 624

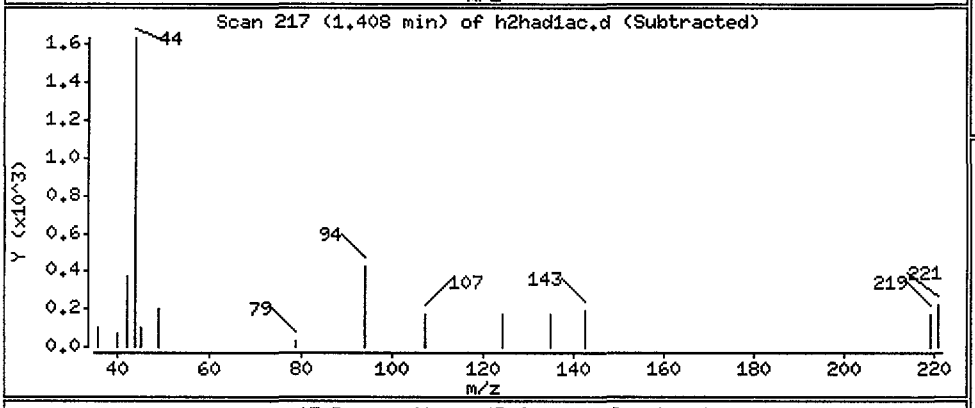
Column diameter: 0.18

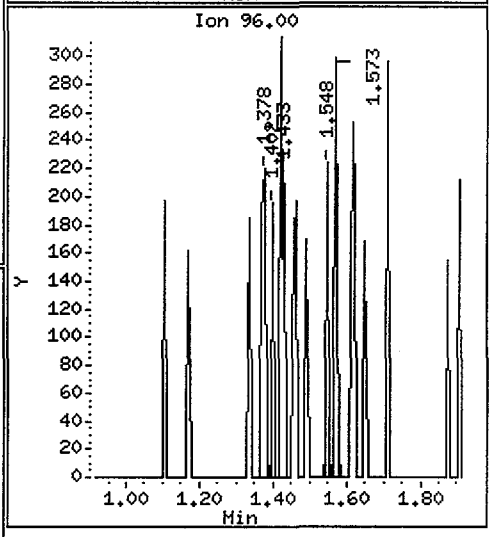
15 Bromomethane

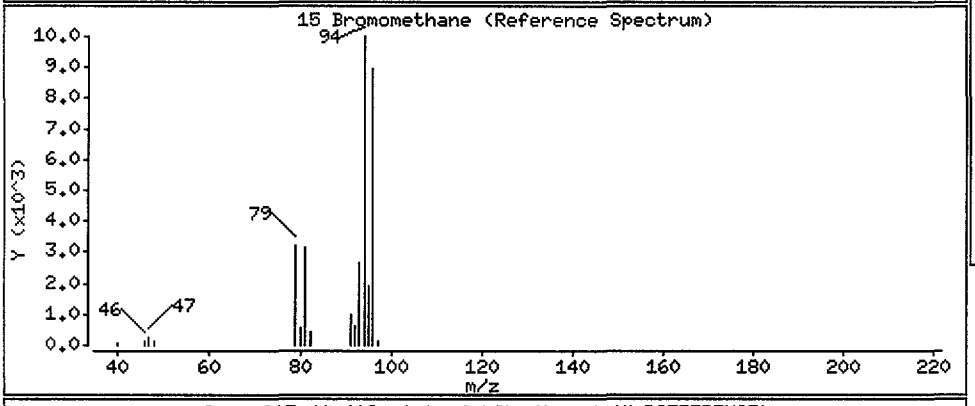
Concentration: 0.92194 ug/L

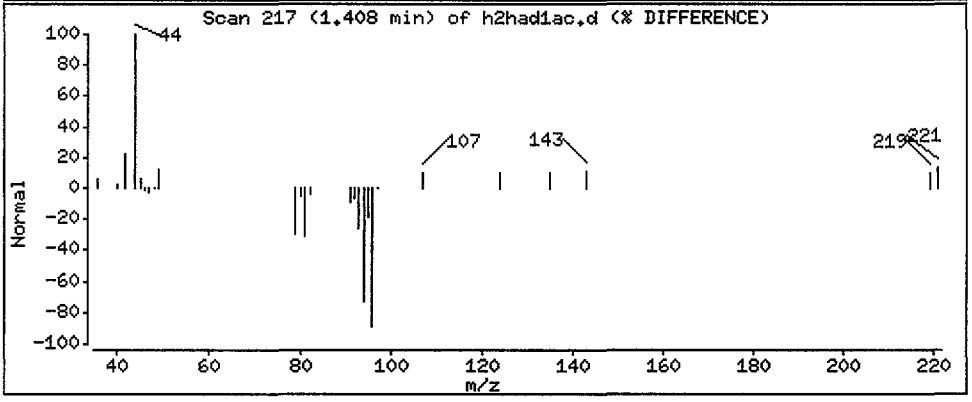












Data File: /chem/gcms/mz.i/Z040506.b/h2had1ac.d

Date : 05-APR-2006 20:09

Client ID: G-3014-R2-VOST COND

Instrument: mz.i

Sample Info: H2HAD1AC,1,0,,

Purge Volume: 25.0

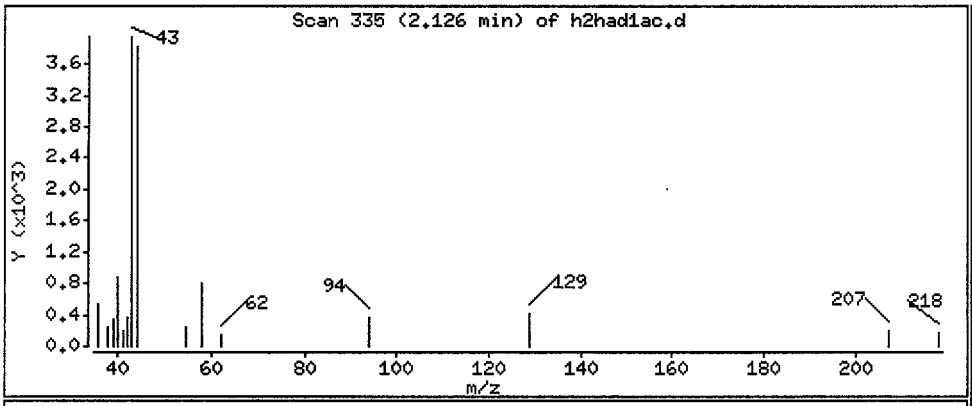
Operator: 063605

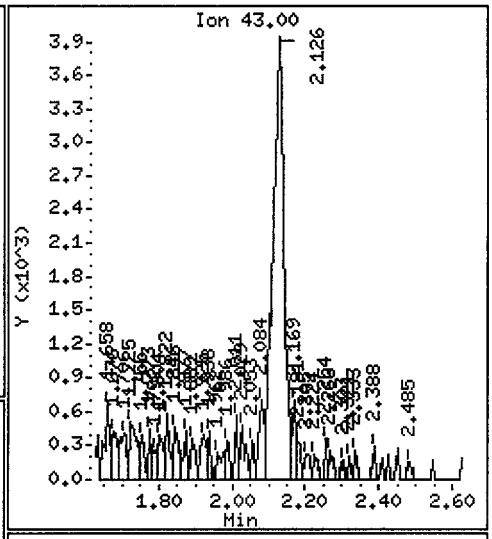
Column phase: J+W 624

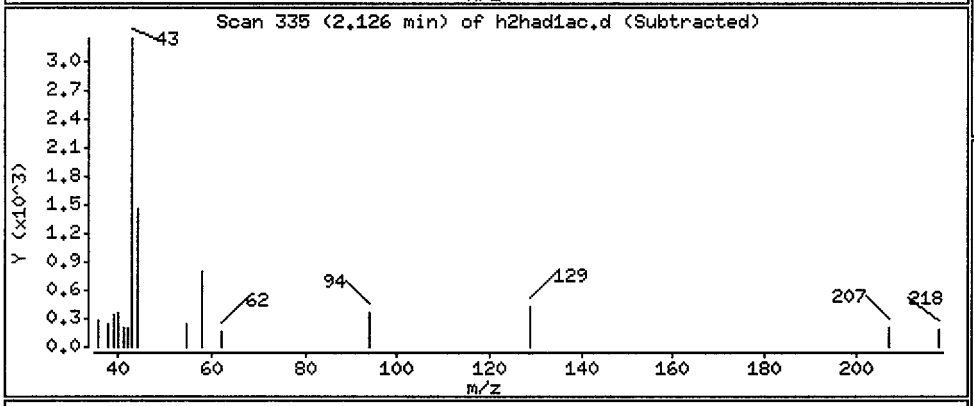
Column diameter: 0.18

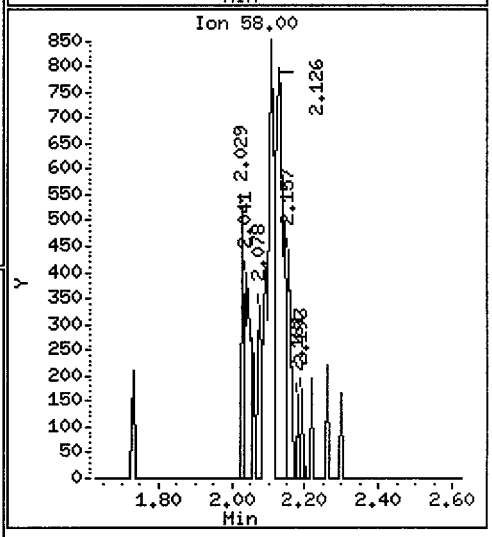
22 Acetone

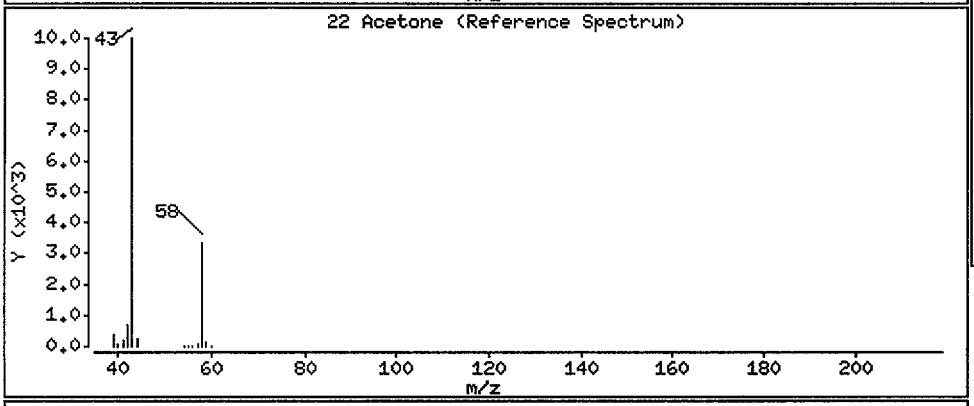
Concentration: 4.8472 ug/L

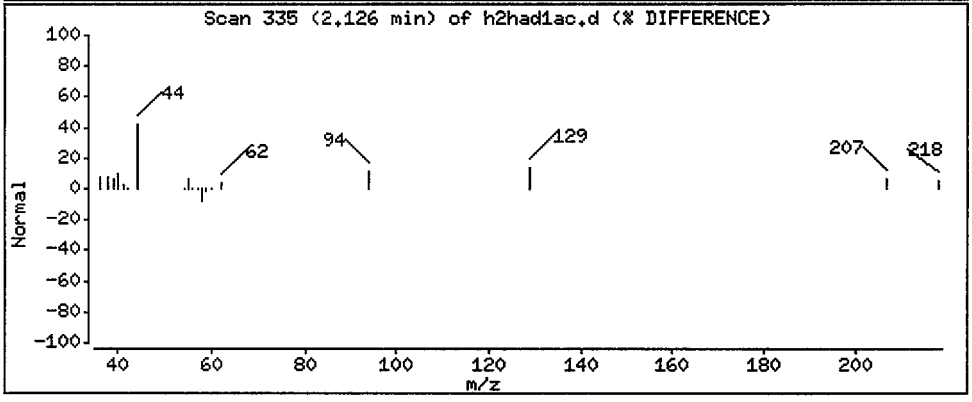












Data File: /chem/gcms/mz.i/Z040506.b/h2had1ac.d

Date : 05-APR-2006 20:09

Client ID: G-3014-R2-VOST COND

Instrument: mz.i

Sample Info: H2HAD1AC,1,0,,

Purge Volume: 25.0

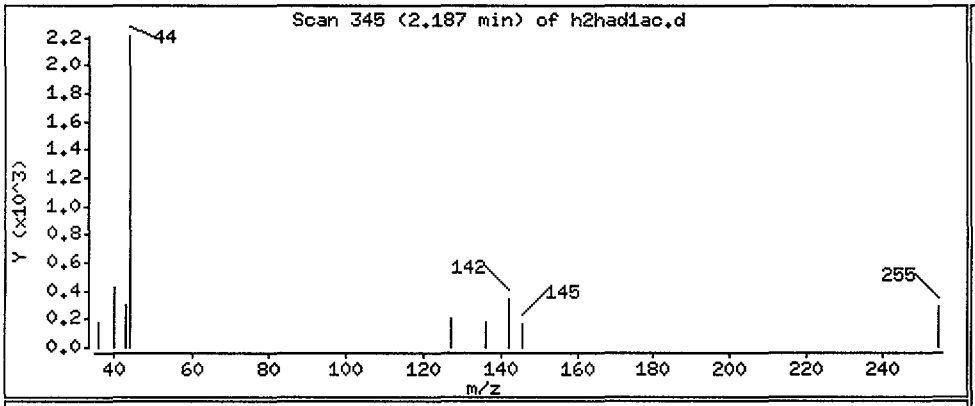
Operator: 063605

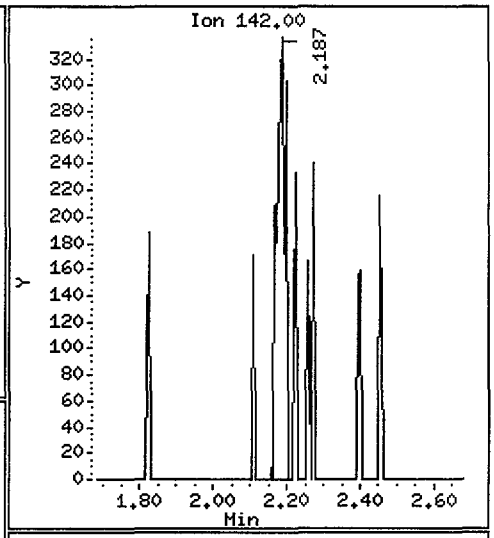
Column phase: J+W 624

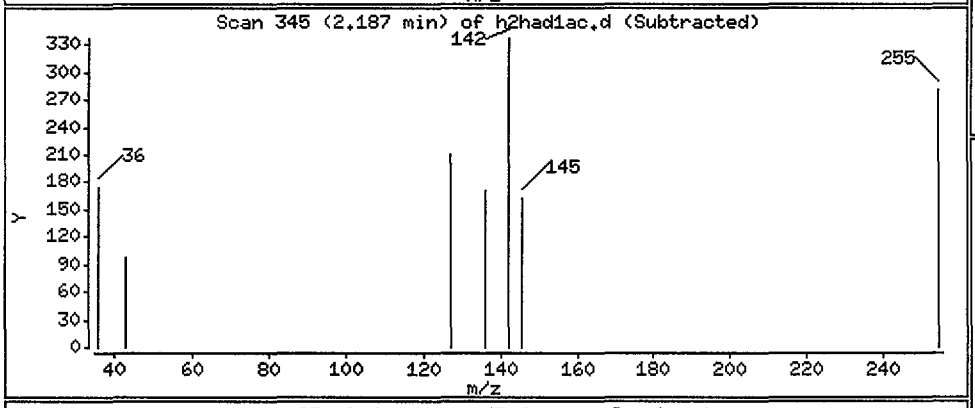
Column diameter: 0.18

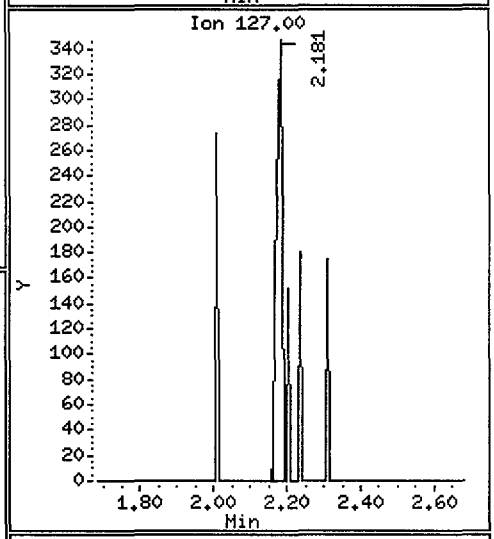
23 *Iodomethane

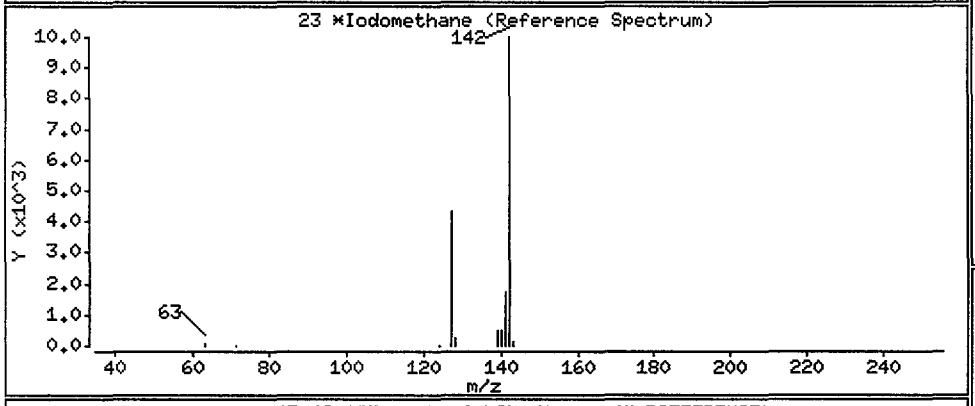
Concentration: 0.54542 ug/L

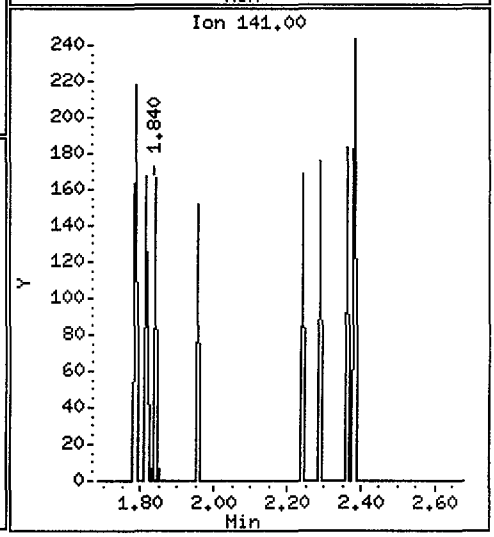


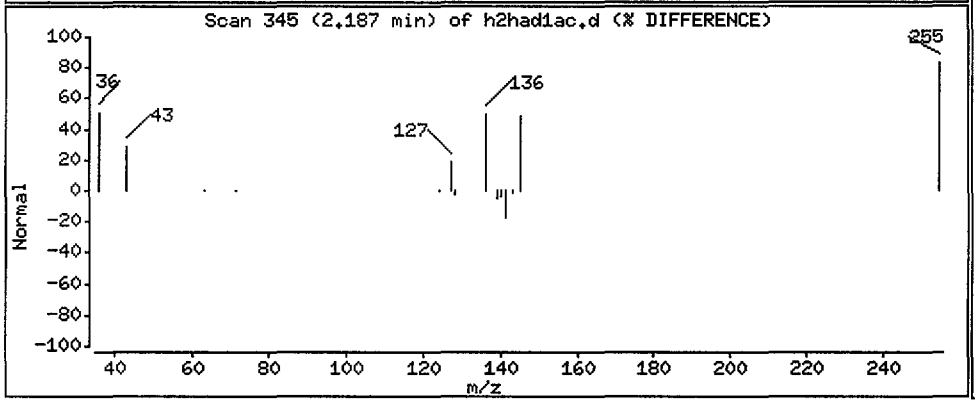












Data File: /chem/gcms/mz.i/Z040506.b/h2had1ac.d

Date : 05-APR-2006 20:09

Client ID: G-3014-R2-VOST COND

Instrument: mz.i

Sample Info: H2HAD1AC,1,0,,

Purge Volume: 25.0

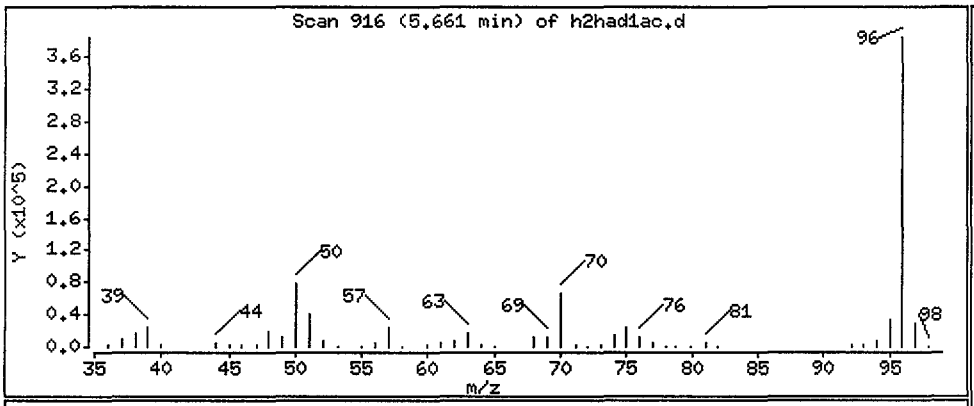
Operator: 063605

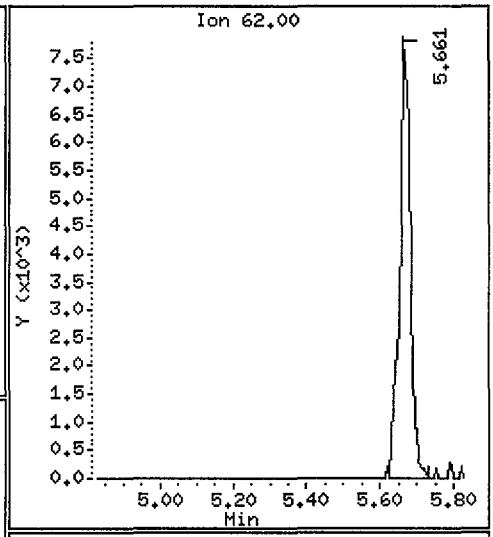
Column phase: J+W 624

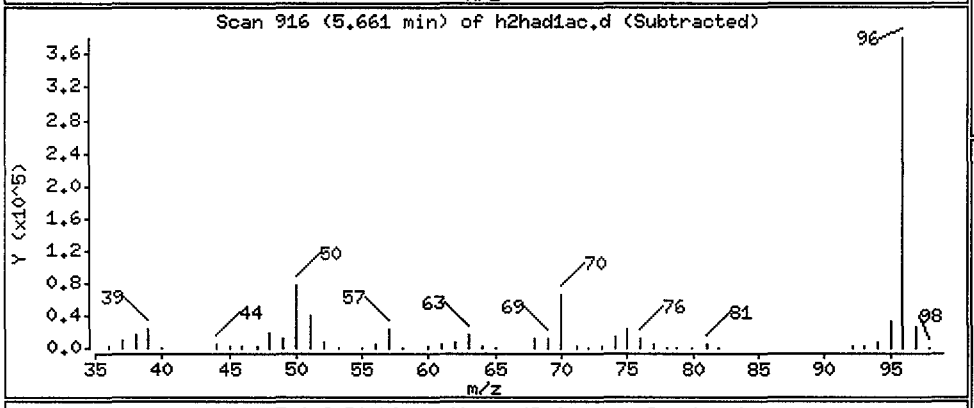
Column diameter: 0.18

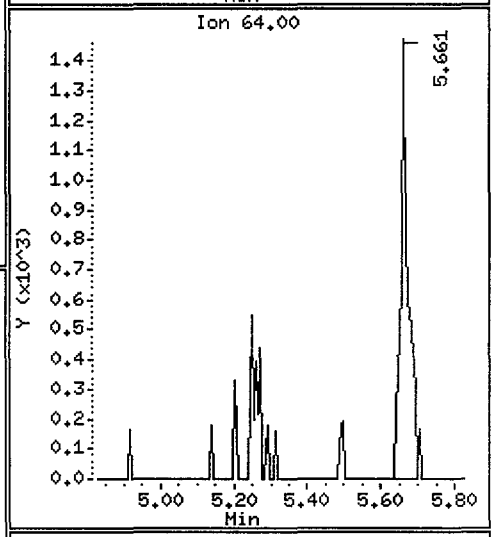
45 1,2-Dichloroethane

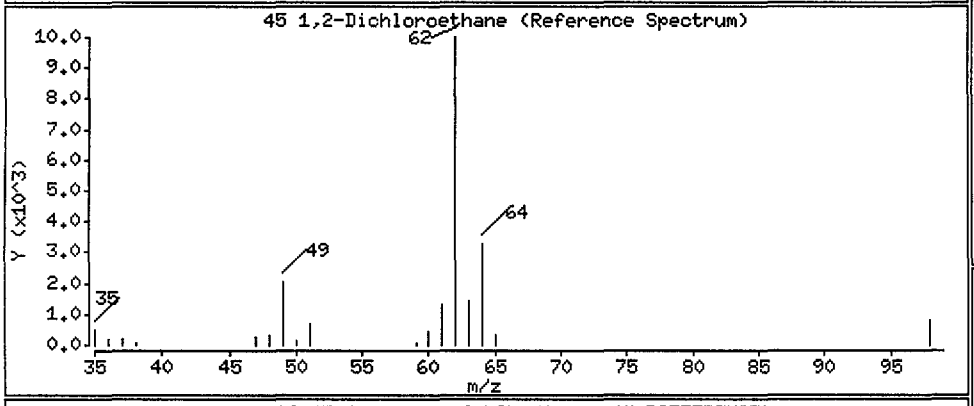
Concentration: 0.87981 ug/L

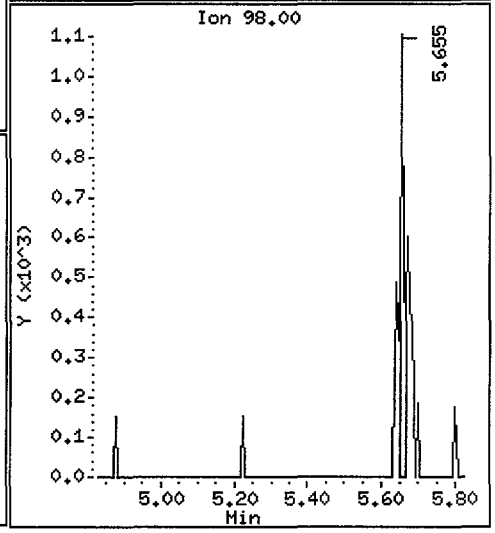


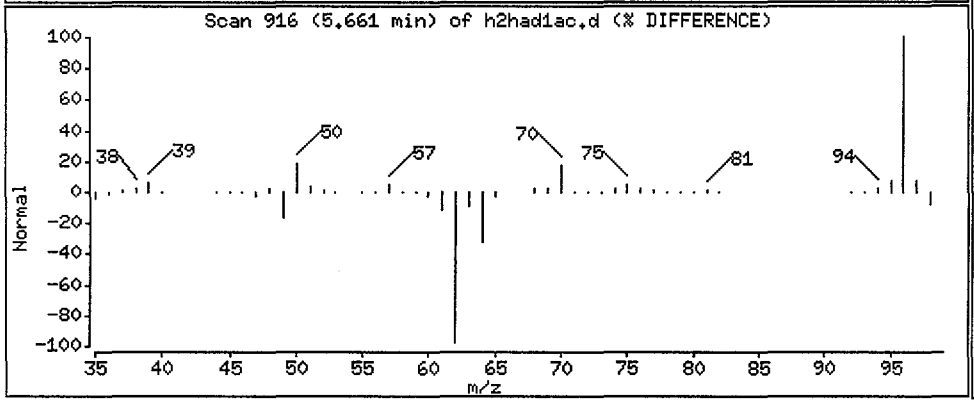












Data File: /chem/gcms/mz.i/Z040506.b/h2had1ac.d

Date : 05-APR-2006 20:09

Client ID: C-3014-R2-VOST COND

Instrument: mz.i

Sample Info: H2HAD1AC,1,0,,

Purge Volume: 25.0

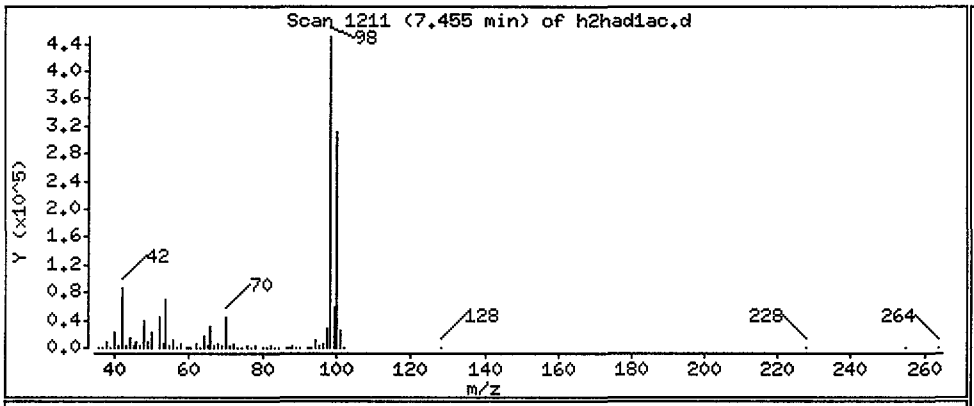
Operator: 063605

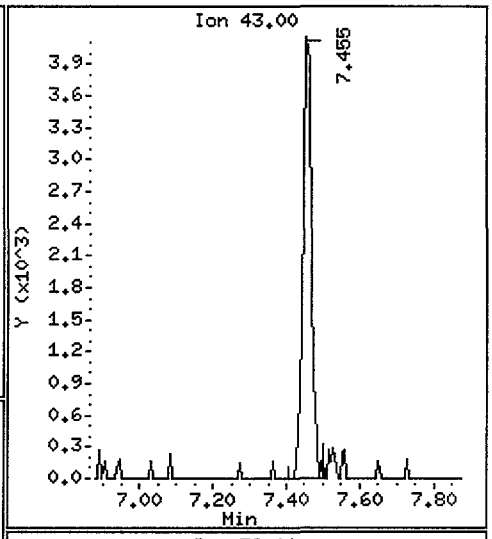
Column phase: J+W 624

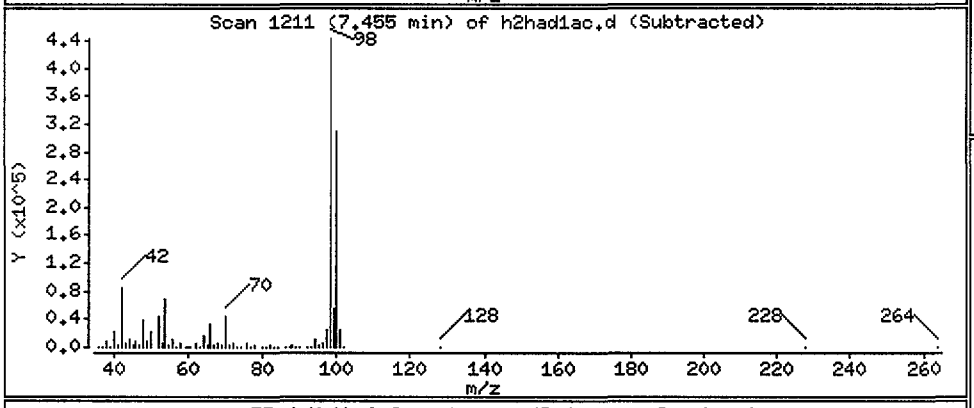
Column diameter: 0.18

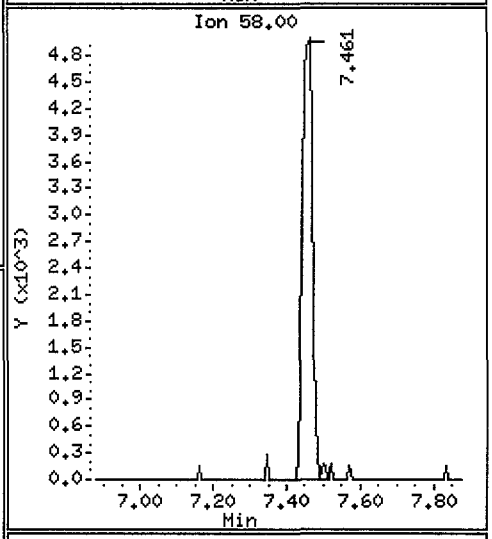
53 4-Methyl-2-pentanone

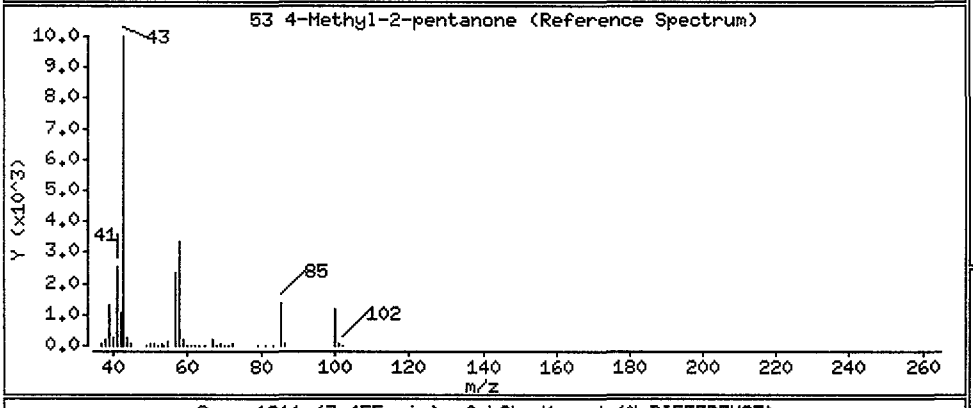
Concentration: 0.82097 ug/L

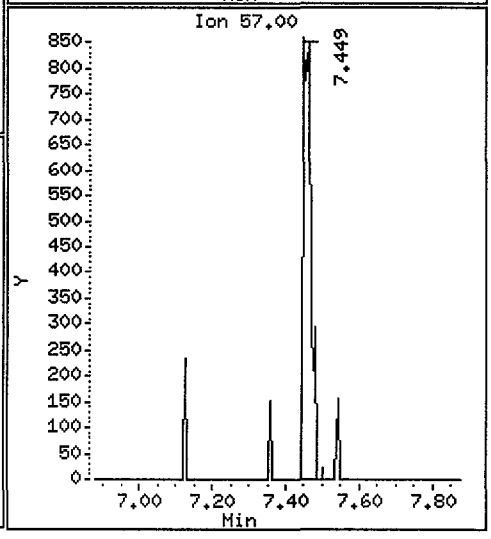


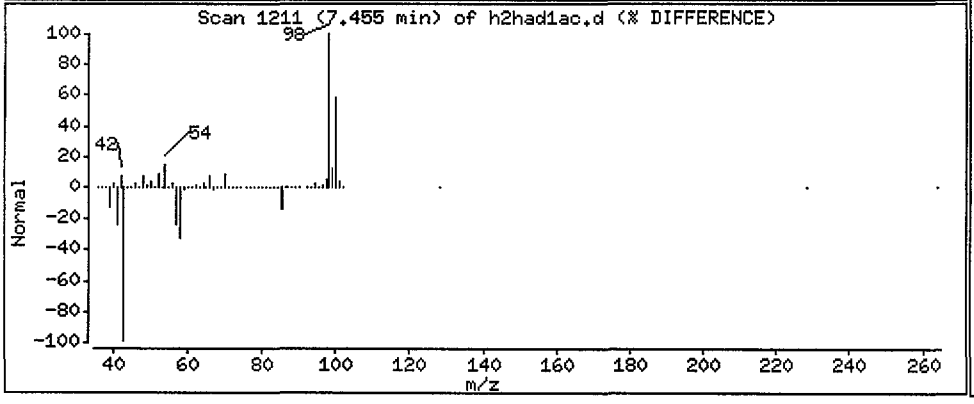












Data File: /chem/gcms/mz.i/Z040506.b/h2had1ac.d

Date : 05-APR-2006 20:09

Client ID: G-3014-R2-VOST COND

Instrument: mz.i

Sample Info: H2HAD1AC,1,0,,

Purge Volume: 25.0

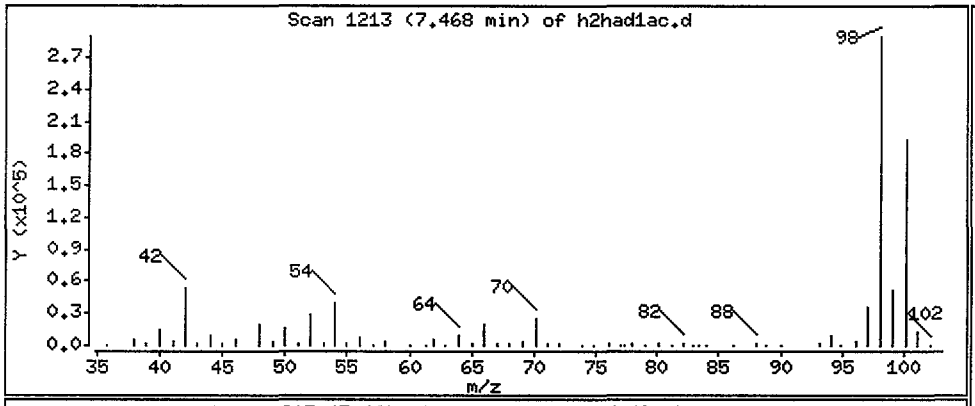
Operator: 063605

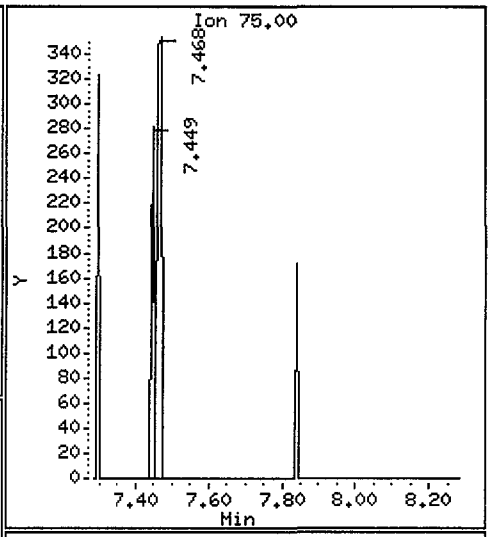
Column phase: J+W 624

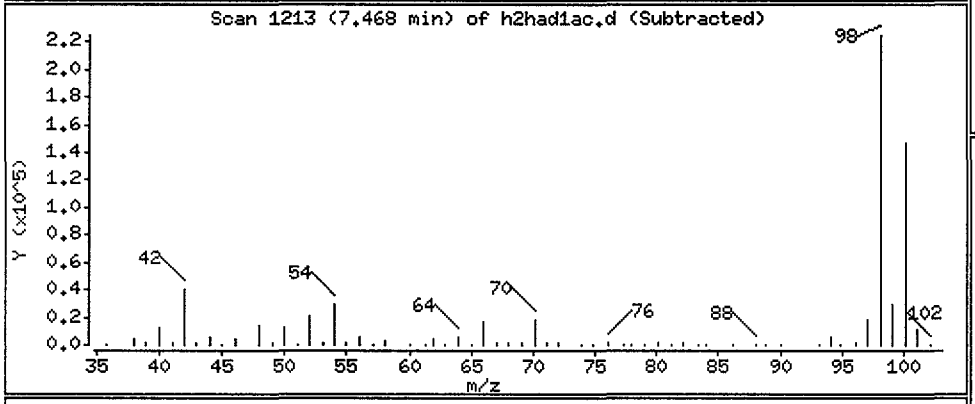
Column diameter: 0.18

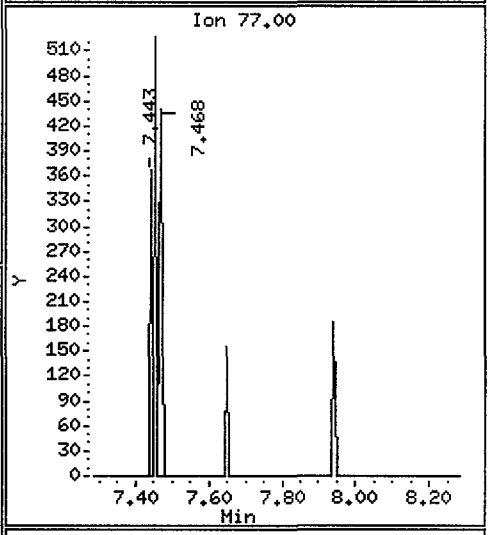
55 trans-1,3-Dichloropropene

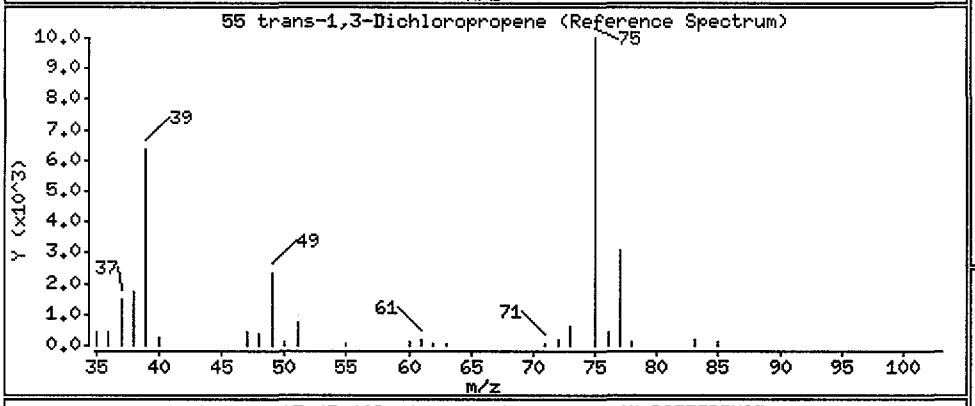
Concentration: 0.64172 ug/L

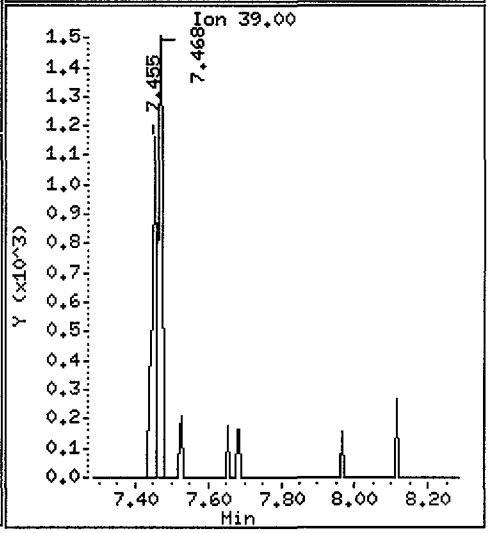


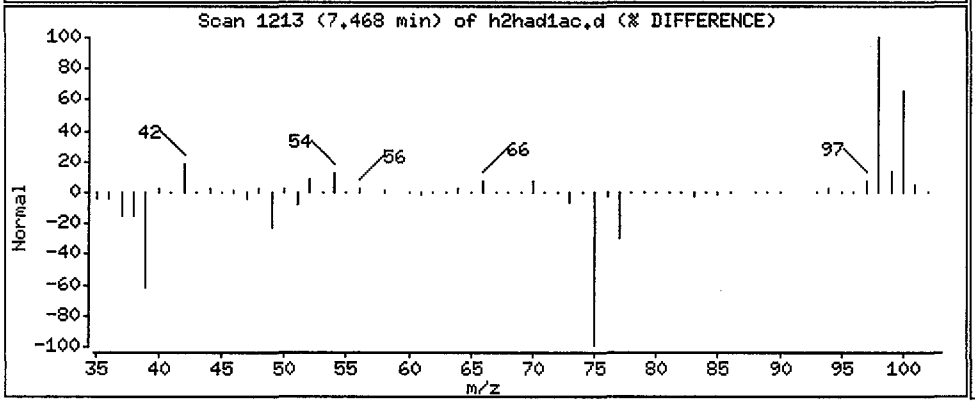












Data File: /var/chem/gcms/mz.i/Z040506.b/h2had1ac.d
Report Date: 07-Apr-2006 14:35

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040506.b/h2had1ac.d
Lab Smp Id: H2HAD1AC Client Smp ID: G-3014-R2-VOST COND
Inj Date : 05-APR-2006 20:09
Operator : 063605 Inst ID: mz.i
Smp Info : H2HAD1AC,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 06-Apr-2006 17:11 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1 QC Sample: SAMPLE DUPLICATE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.667	1001551	10.000

	CONCENTRATIONS				QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide				CAS #: 124-38-9			
0.910	3696958	36.9123290	36.912	5	NIST05.1	80	1

Air

MT 4/7/06

Data File: /var/chem/gcms/mz.i/Z040506.b/h2had1ac.d

Date : 05-APR-2006 20:09

Client ID: G-3014-R2-VOST COND

Instrument: mz.i

Sample Info: H2HAD1AC,1,0,,

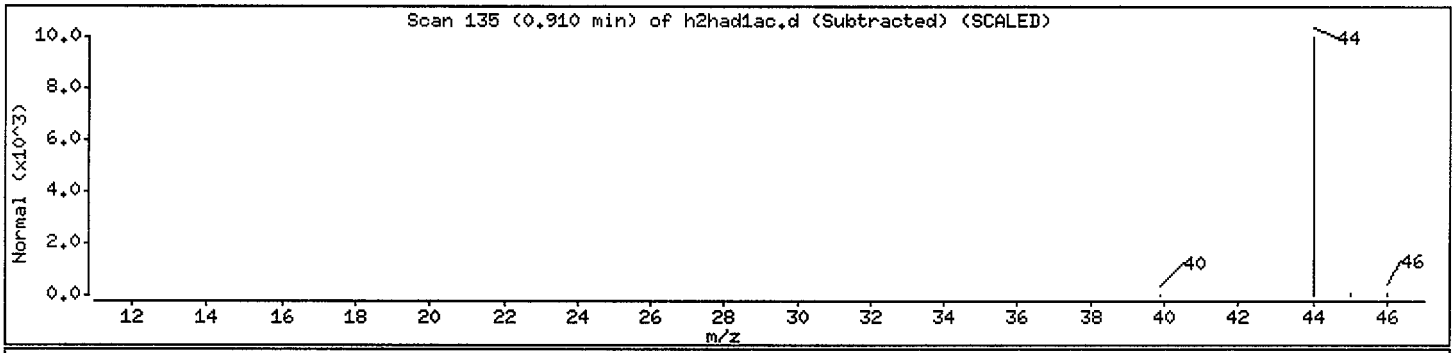
Purge Volume: 25.0

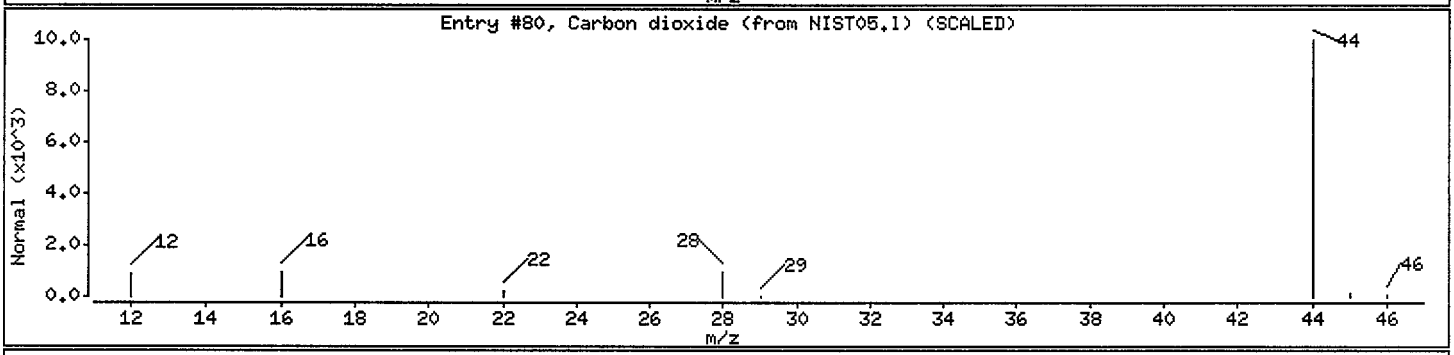
Operator: 063605

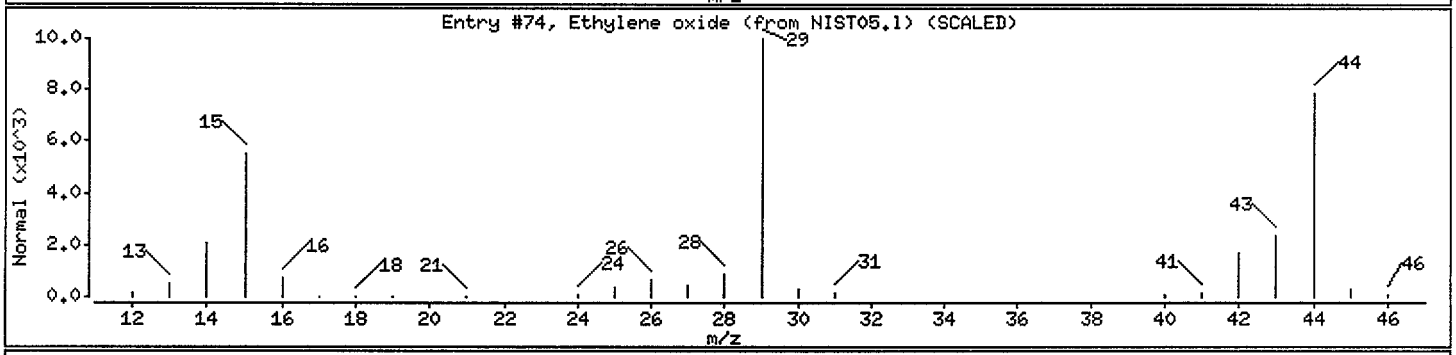
Column phase: J+W 624

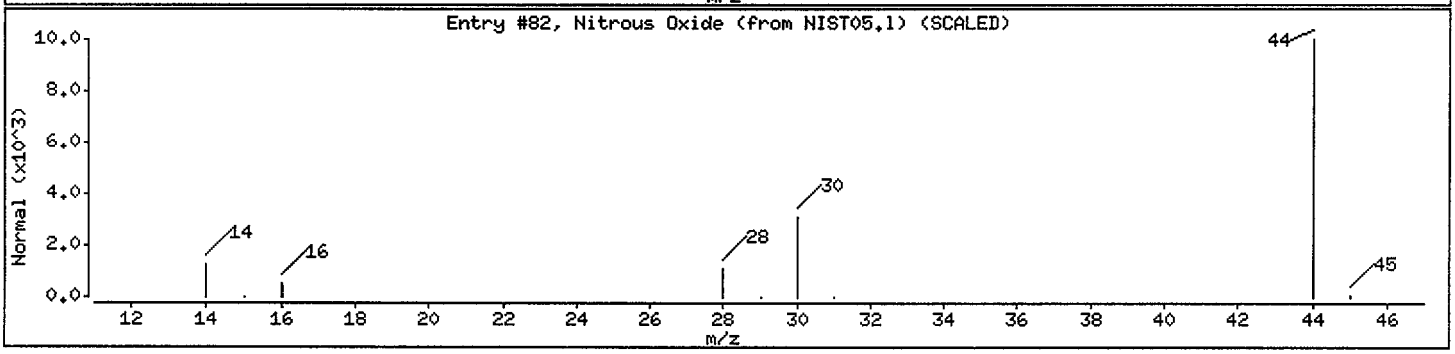
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.1	80	5	CO2	44
Ethylene oxide	75-21-8	NIST05.1	74	3	C2H4O	44
Nitrous Oxide	10024-97-2	NIST05.1	82	3	N2O	44









STL Knoxville - ACS

Client Sample ID: G-3015-R2-VOST TENAX FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-021 **Work Order #...:** H2HA71AA **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.089 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.024 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0026 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3015-R2-VOST TENAX FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-021 **Work Order #...:** H2HA71AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	103	(50 - 134)
1,2-Dichloroethane-d4	92	(50 - 134)
Toluene-d8	92	(57 - 127)
Bromofluorobenzene	83	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3015-R2-VOST TENAX FB

GC/MS Volatiles

Lot-Sample #: H6D030169-021 **Work Order #:** H2HA71AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /chem/gcms/mz.i/Z040706.b/h2ha71aa.d
Report Date: 07-Apr-2006 13:51

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040706.b/h2ha71aa.d
Lab Smp Id: H2HA71AA Client Smp ID: G-3015-R2-VOST TENA
Inj Date : 07-APR-2006 13:33
Operator : 22980 Inst ID: mz.i
Smp Info : H2HA71AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 13:06 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.673	5.676	(1.000)	798569	10.0000	
* 2 Chlorobenzene-d5	119	8.940	8.937	(1.000)	171904	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.495	11.492	(1.000)	226341	10.0000	
$ 4 Dibromofluoromethane	113	4.827	4.831	(0.851)	131874	10.3059	0.25765
$ 5 1,2-Dichloroethane-d4	65	5.235	5.238	(0.923)	101520	9.17471	0.22937
$ 6 Toluene-d8	98	7.461	7.465	(0.835)	697256	9.23130	0.23078
$ 7 4-Bromofluorobenzene	95	10.126	10.129	(0.881)	188351	8.25142	0.20628
15 Bromomethane	94	1.408	1.418	(0.248)	961	0.94717	0.023679
22 Acetone	43	2.126	2.123	(0.375)	1473	3.55377	0.088844
23 *Iodomethane	142	2.175	2.184	(0.383)	634	0.55271	0.013818
24 Carbon Disulfide	76	2.242	2.239	(0.395)	6361	0.10383	0.0025958
27 Methylene Chloride	84	2.515	2.513	(0.443)	2497	0.18699	0.0046748
39 *THF	42	4.559	4.532	(0.804)	1178	0.62203	0.015551
45 1,2-Dichloroethane	62	5.667	5.335	(0.999)	7542	0.45229	~~0.011307~~
53 4-Methyl-2-pentanone	43	7.467	7.386	(1.316)	5188	0.74395	~~0.018599~~
54 Toluene (ccc)	91	7.534	7.532	(0.843)	5818	0.05947	0.0014868

JW 4.4.06

Data File: /chem/gcms/mz.i/Z040706.b/h2ha71aa.d
Report Date: 07-Apr-2006 13:51

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug)
55 trans-1,3-Dichloropropene	75	8.112	7.793	(0.907)	931	0.68483	0.017121
57 1,1,2-Trichloroethane	97	8.112	7.964	(0.907)	827	0.10421	0.0026052
69 Bromoform (spcc)	173	10.114	9.782	(1.131)	110	0.84144	0.021036
74 1,2,3-Trichloropropane	110	10.503	10.324	(0.914)	482	0.24743	0.0061857

4-14-06

Data File: /chem/gcms/mz.i/Z040706.b/h2ha71aa.d
Report Date: 07-Apr-2006 13:51

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2ha71aa.d
Lab Smp Id: H2HA71AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 07:35
Client Smp ID: G-3015-R2-VOST TENA
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	952581	476290	1905162	798569	-16.17
2 Chlorobenzene-d5	164101	82050	328202	171904	4.75
3 1,4 Dichlorobenze	204390	102195	408780	226341	10.74

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.68	5.18	6.18	5.67	-0.06
2 Chlorobenzene-d5	8.94	8.44	9.44	8.94	0.03
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	0.02

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

Data File: /chem/gcms/mz.i/Z040706.b/h2ha71aa.d
Report Date: 07-Apr-2006 13:51

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030169
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: H2HA71AA
Client Smp ID: G-3015-R2-VOST TENA
Level: LOW
Operator: 22980
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allcmpds.spk
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

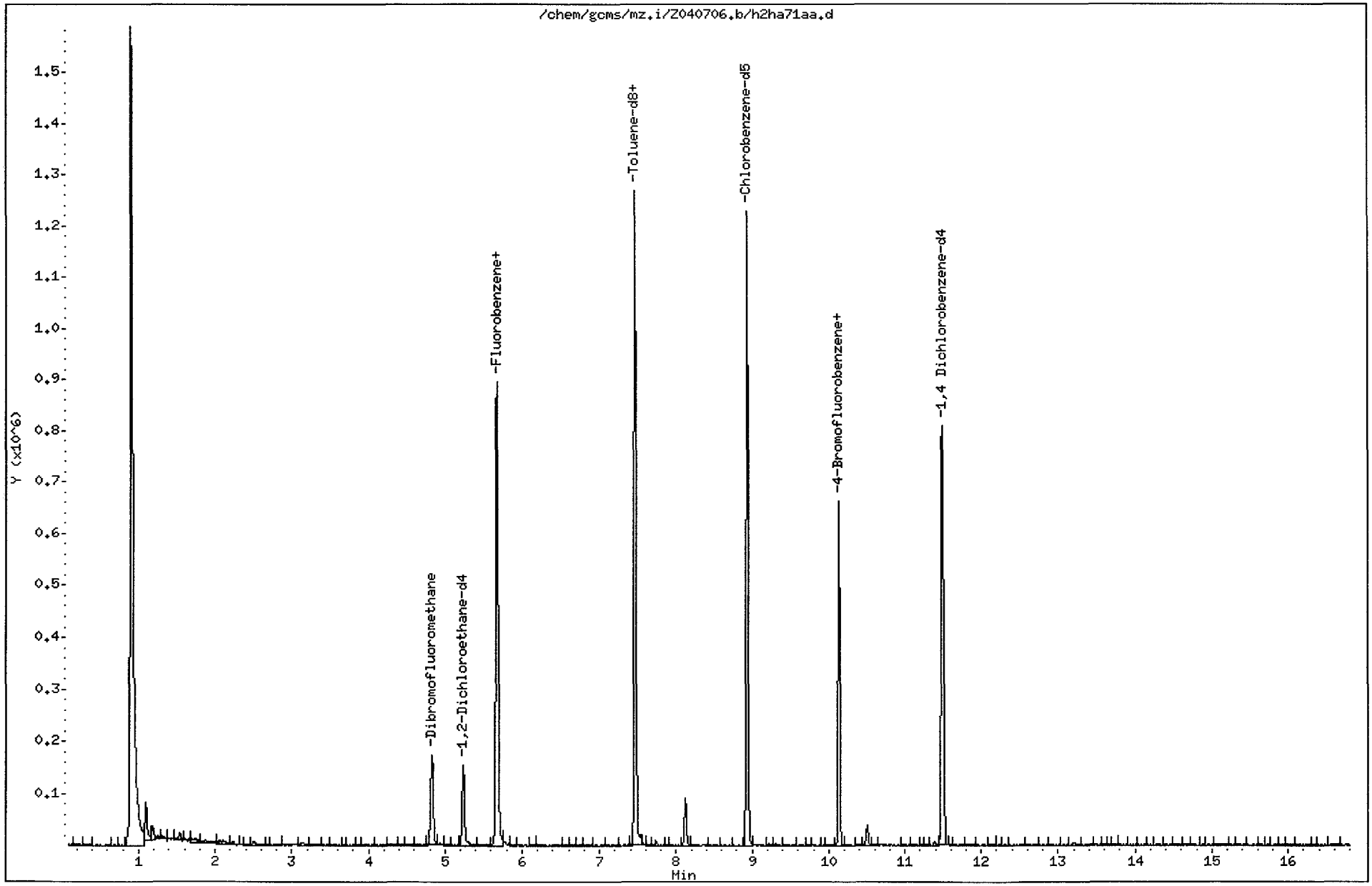
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.25765	103.06	50-150
$ 5 1,2-Dichloroethane	0.25000	0.22937	91.75	50-150
$ 6 Toluene-d8	0.25000	0.23078	92.31	50-150
$ 7 4-Bromofluorobenze	0.25000	0.20628	82.51	50-150

Data File: /chem/gcms/mz.i/Z040706.b/h2ha71aa.d
Date : 07-APR-2006 13:33
Client ID: C-3015-R2-VOST TENA
Sample Info: H2HA71AA,1,0,,

Instrument: mz.i

Operator: 22980
Column diameter: 0.18

Column phase: J+W 624



Data File: /chem/gcms/mz.i/Z040706.b/h2ha71aa.d

Date : 07-APR-2006 13:33

Client ID: G-3015-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HA71AA,1,0,,

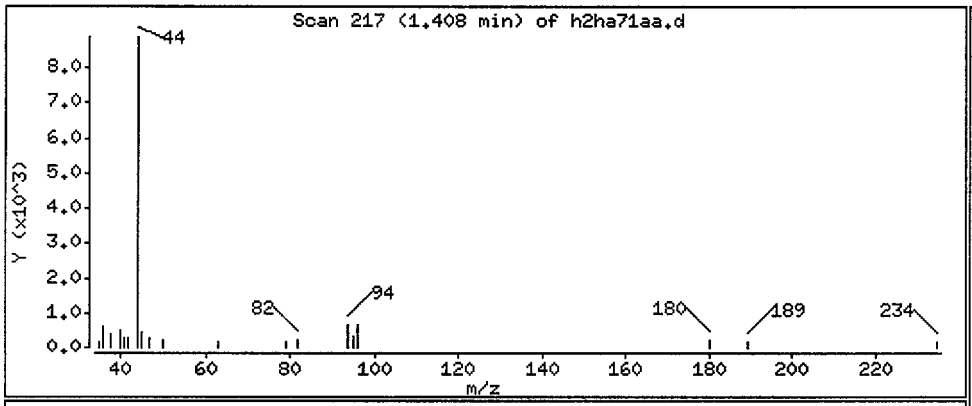
Operator: 22980

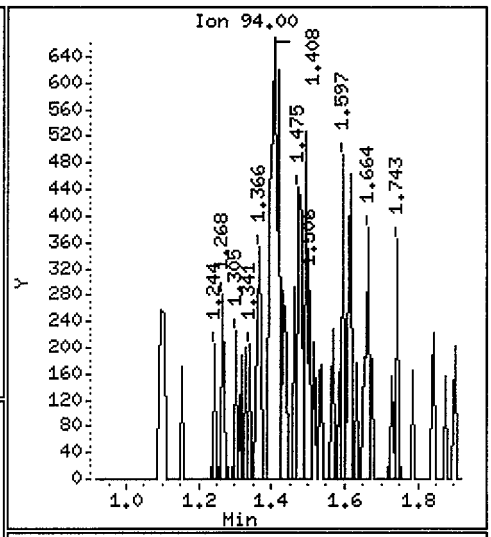
Column phase: J+W 624

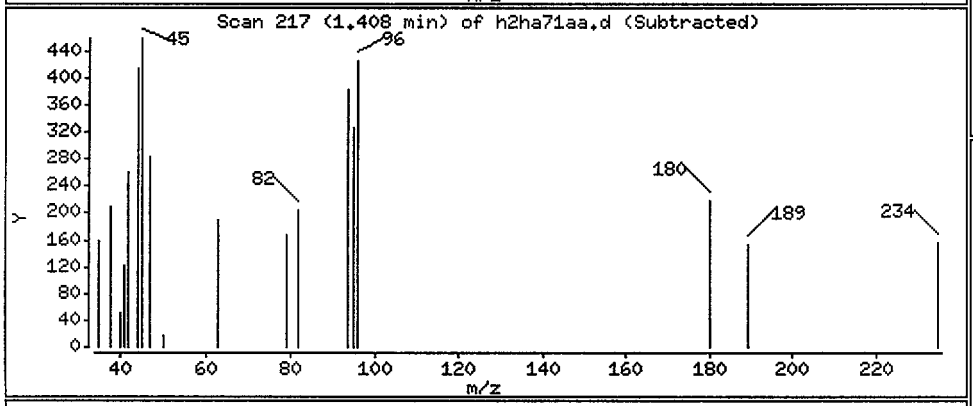
Column diameter: 0.18

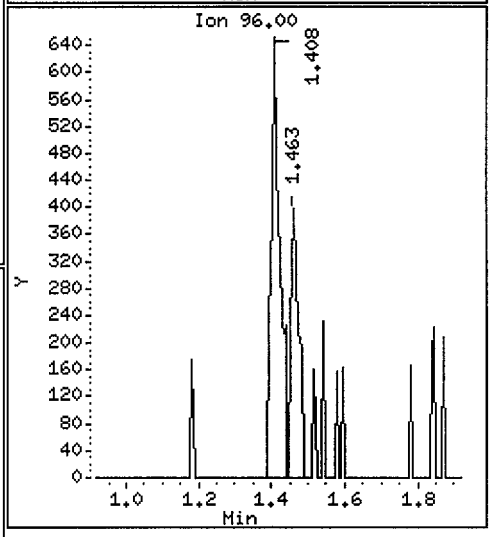
15 Bromomethane

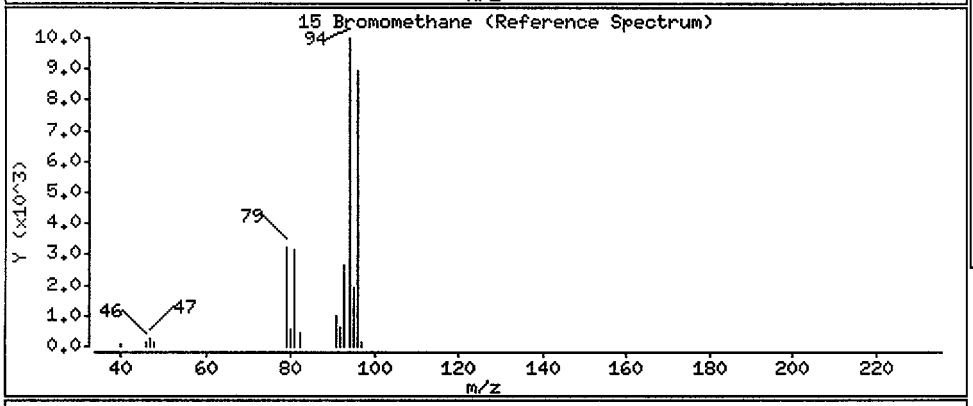
Concentration: 0.023679 ug

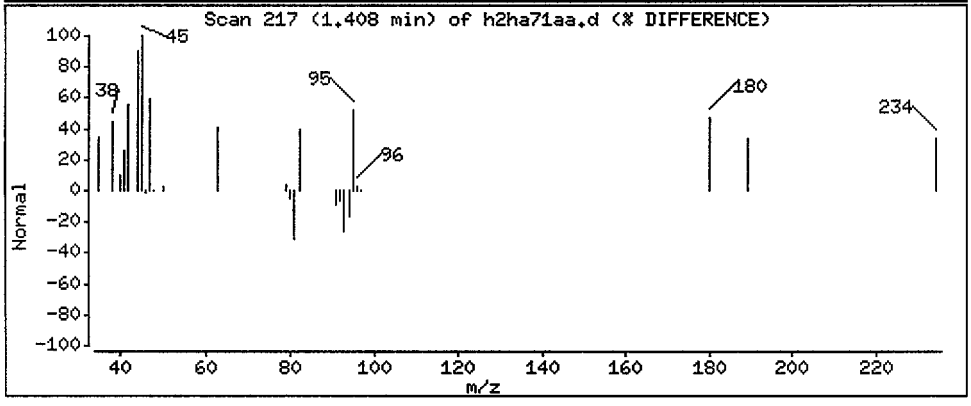












Data File: /chem/gcms/mz.i/Z040706.b/h2ha71aa.d

Date : 07-APR-2006 13:33

Client ID: G-3015-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HA71AA,1,0,,

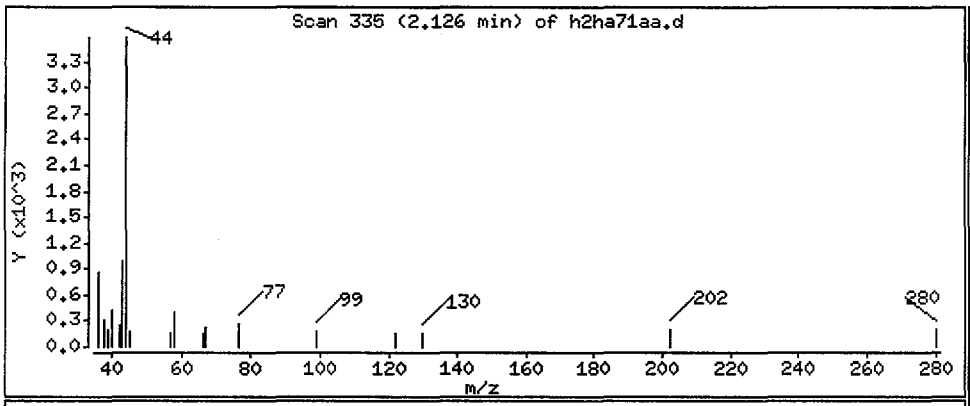
Operator: 22980

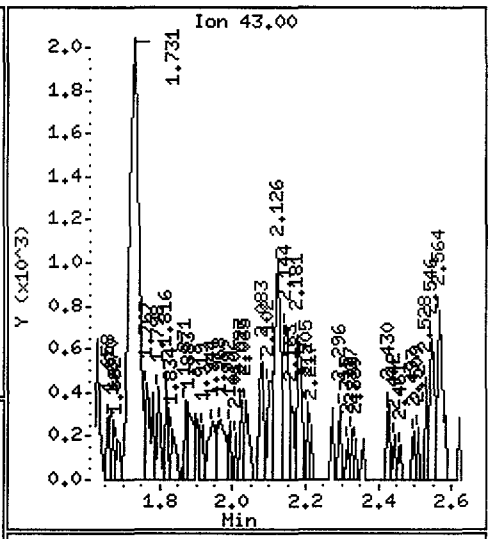
Column phase: J+W 624

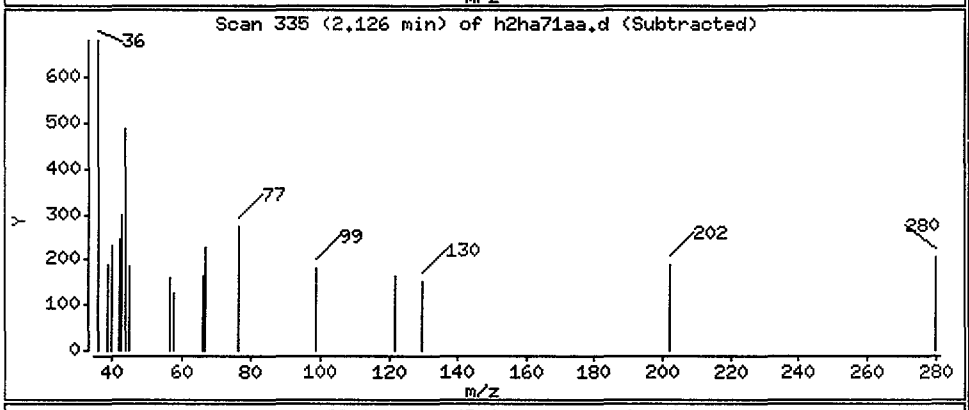
Column diameter: 0.18

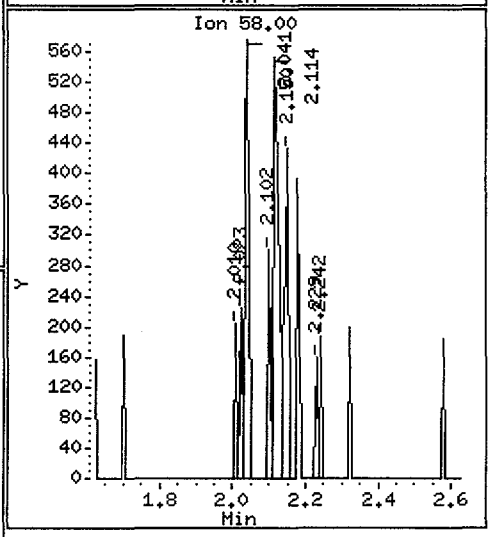
22 Acetone

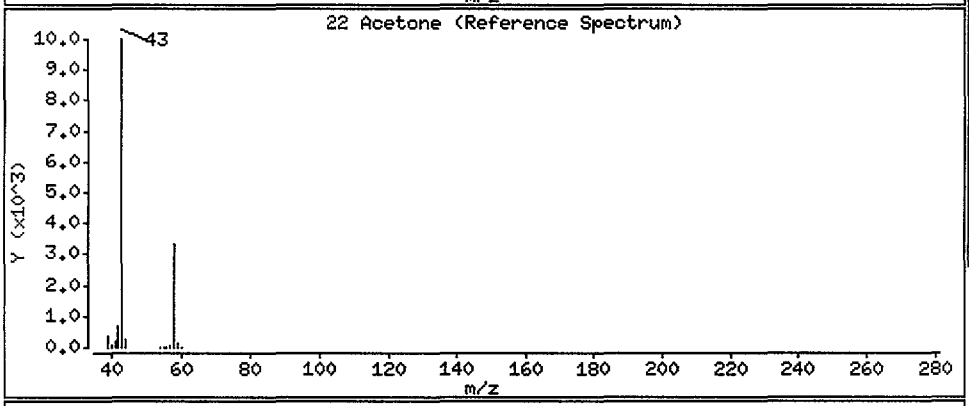
Concentration: 0.088844 ug

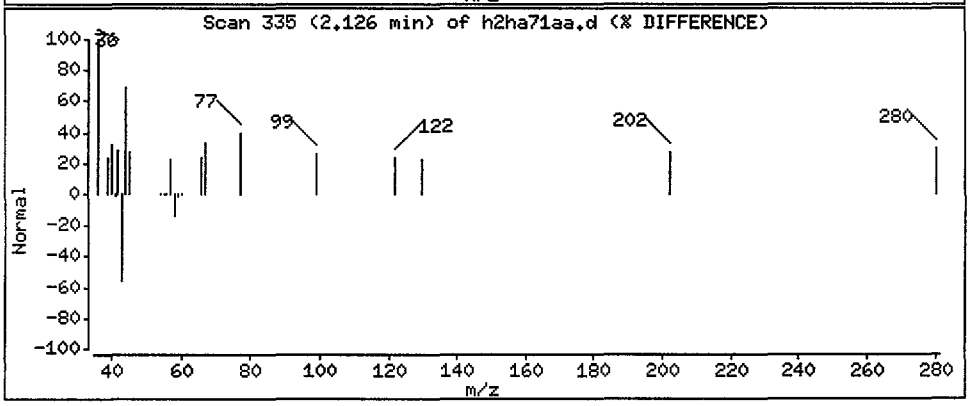












Data File: /chem/gcms/mz.i/Z040706.b/h2ha71aa.d

Date : 07-APR-2006 13:33

Client ID: G-3015-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HA71AA,1,0,,

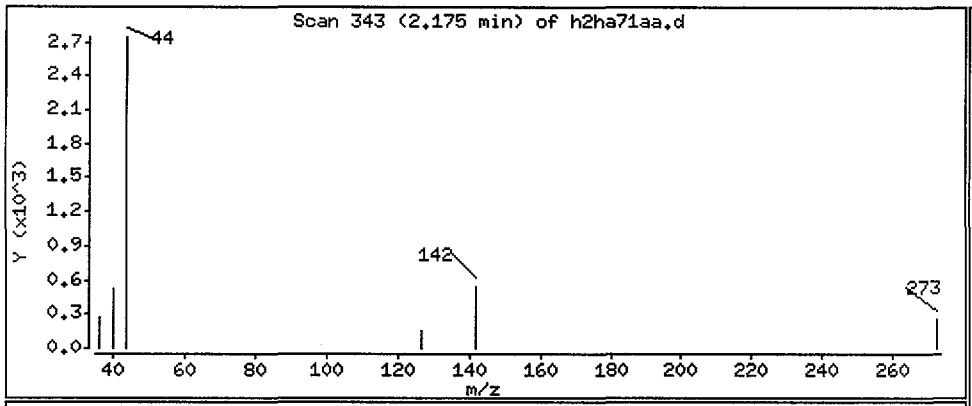
Operator: 22980

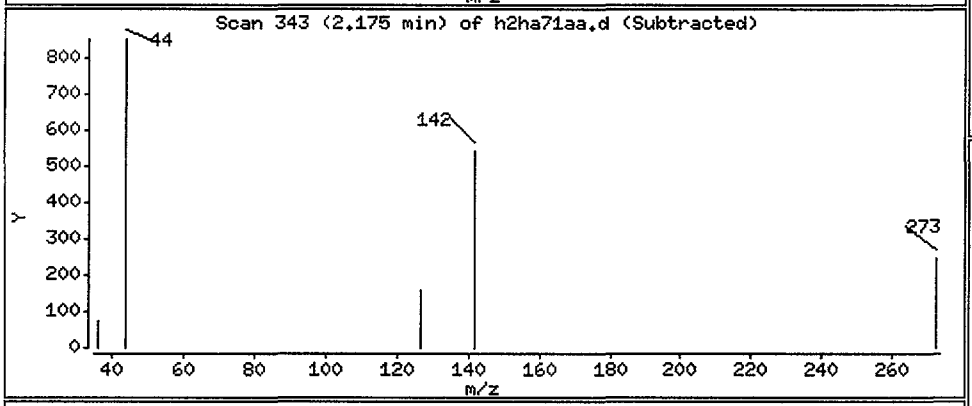
Column phase: J+W 624

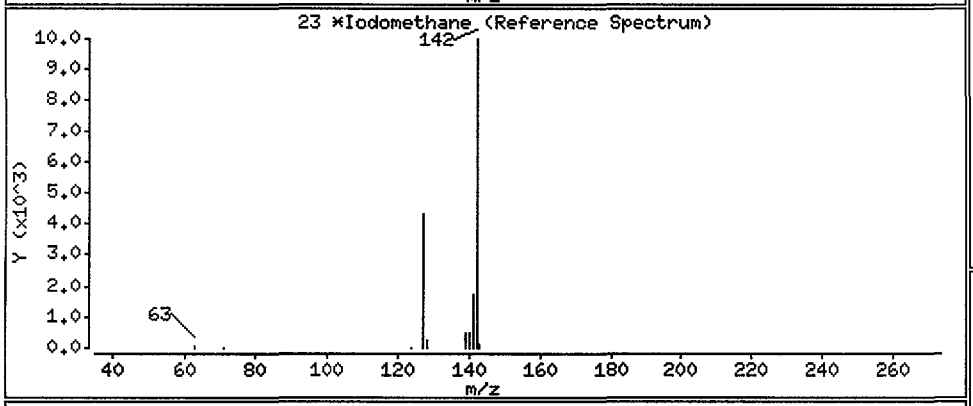
Column diameter: 0.18

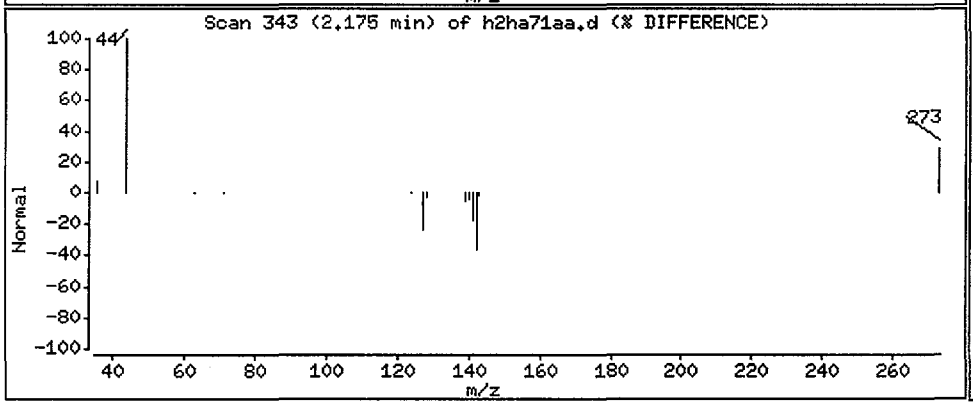
23 *Iodomethane

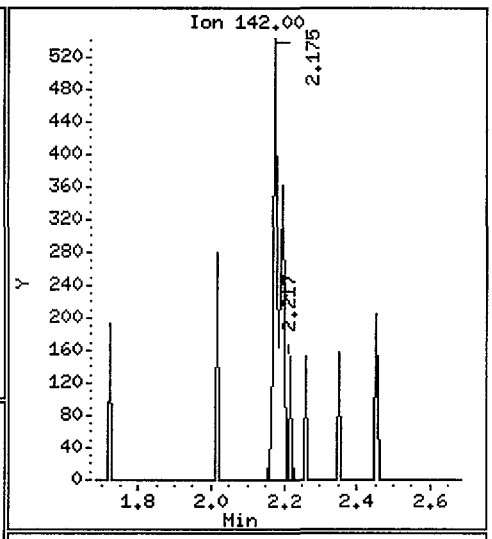
Concentration: 0.013818 ug

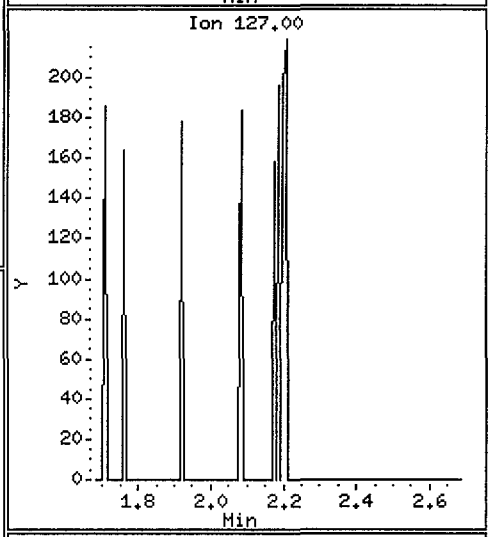


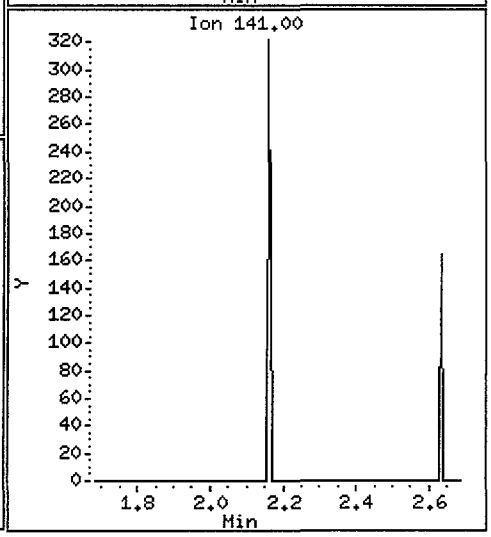












Data File: /chem/gcms/mz.i/Z040706.b/h2ha71aa.d

Date : 07-APR-2006 13:33

Client ID: G-3015-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HA71AA,1,0,,

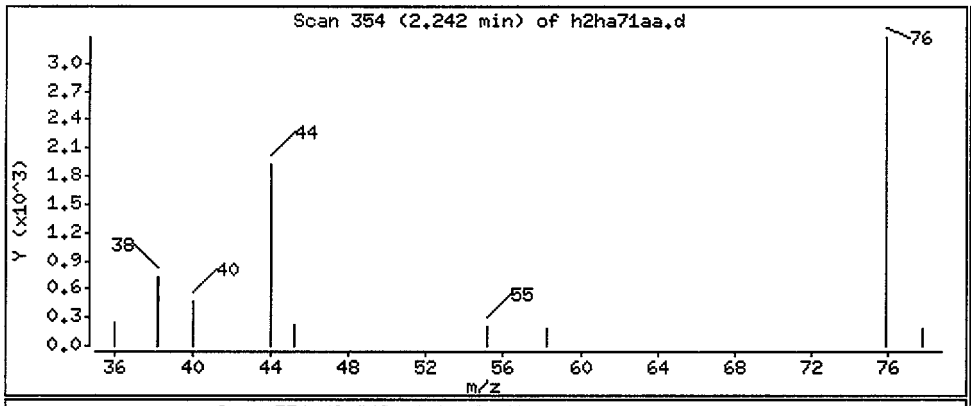
Operator: 22980

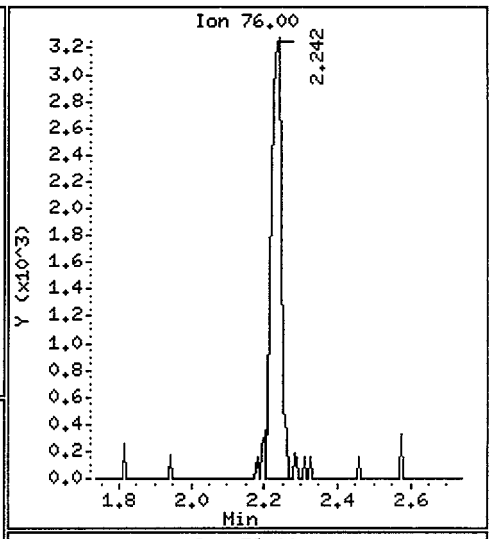
Column phase: J+W 624

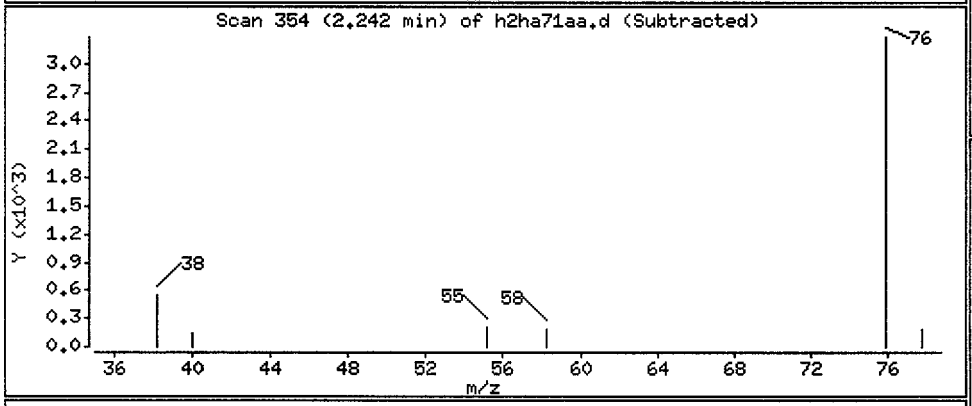
Column diameter: 0.18

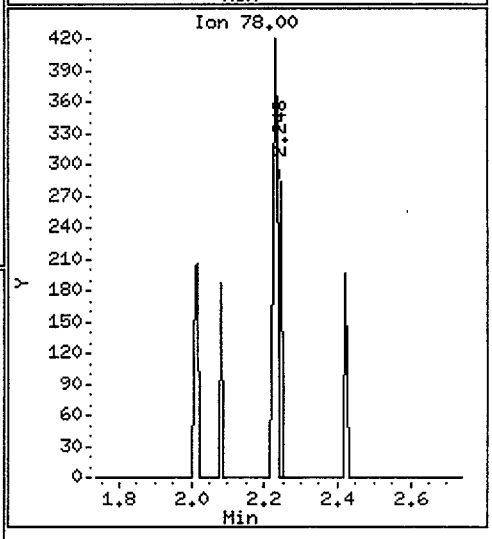
24 Carbon Disulfide

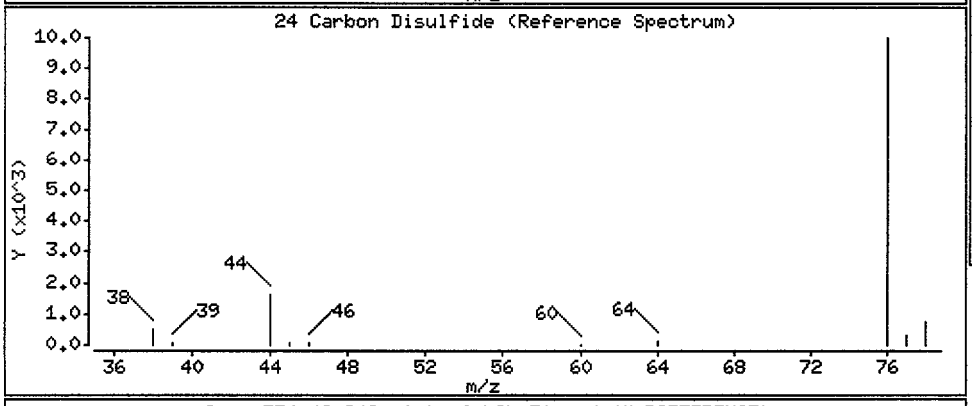
Concentration: 0.0025958 ug

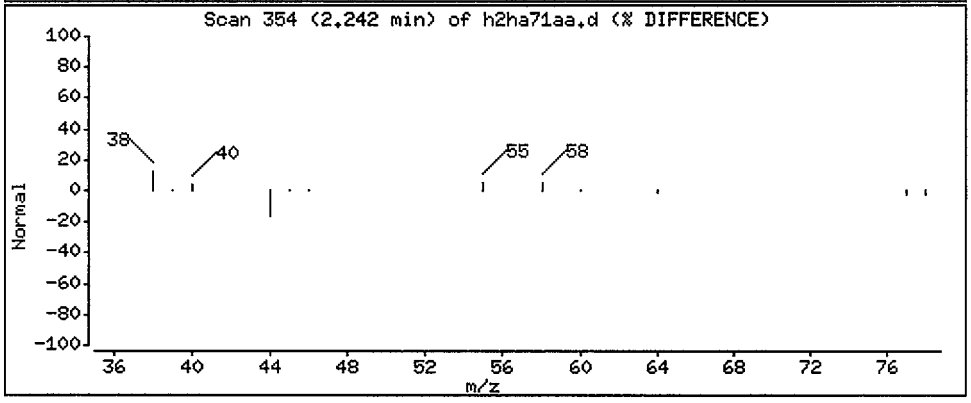












Data File: /chem/gcms/mz.i/Z040706.b/h2ha71aa.d

Date : 07-APR-2006 13:33

Client ID: G-3015-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HA71AA,1,0,,

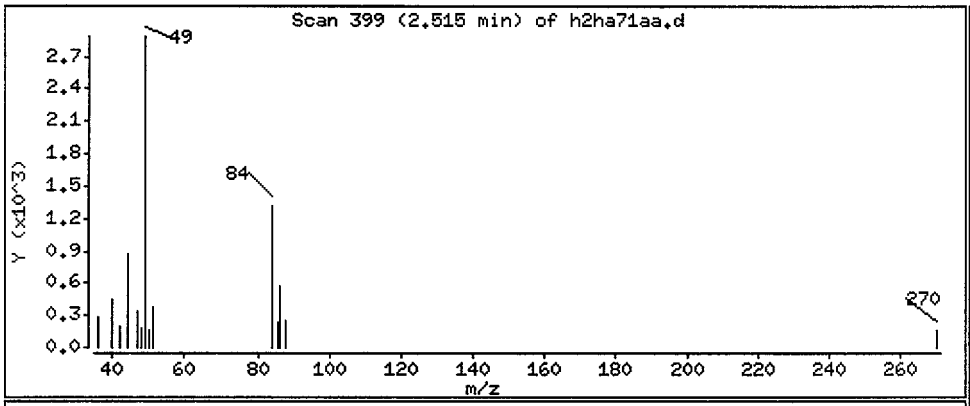
Operator: 22980

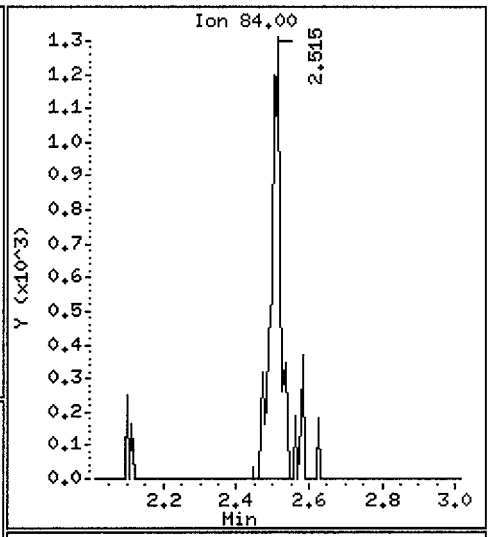
Column phase: J+W 624

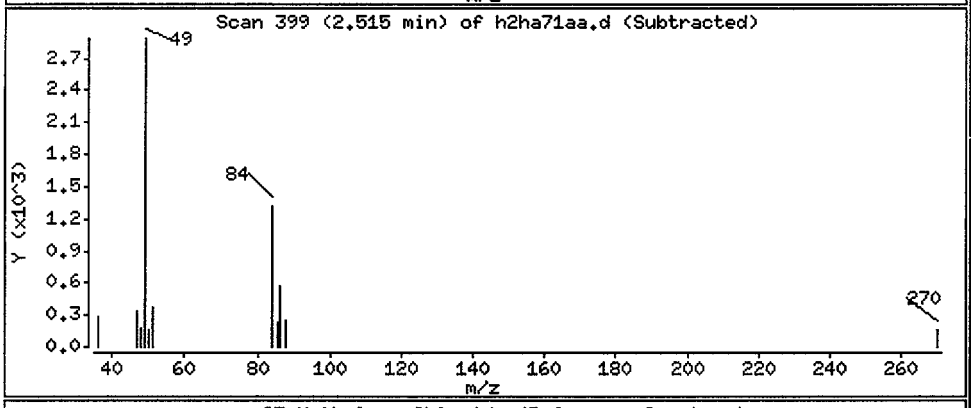
Column diameter: 0.18

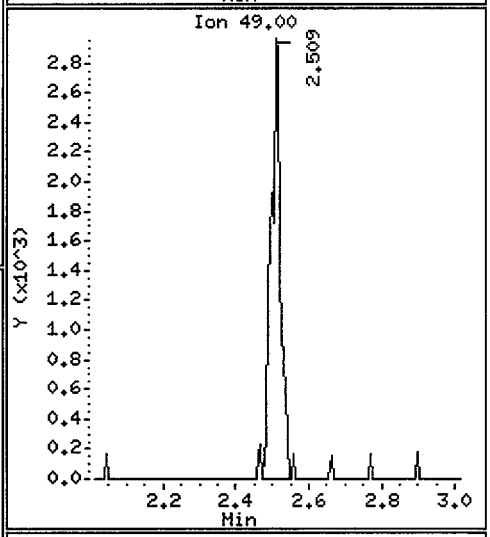
27 Methylene Chloride

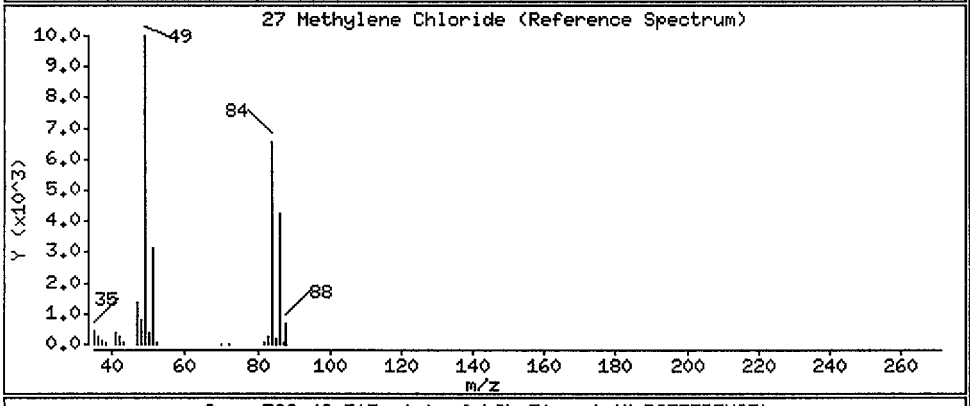
Concentration: 0.0046748 ug

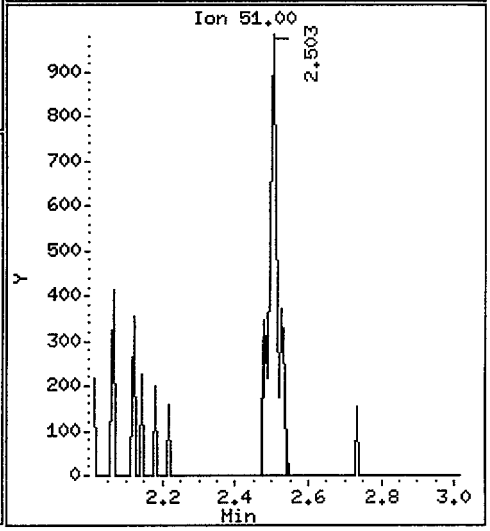


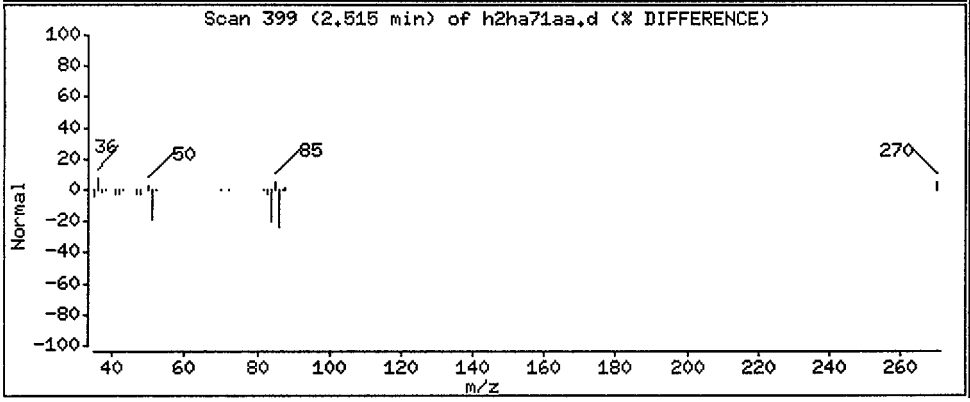












Data File: /chem/gcms/mz.i/Z040706.b/h2ha71aa.d

Date : 07-APR-2006 13:33

Client ID: G-3015-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HA71AA,1,0,,

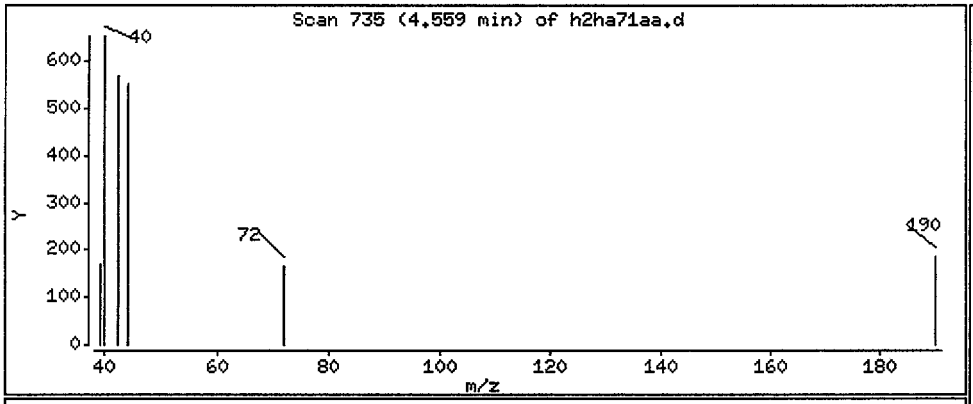
Operator: 22980

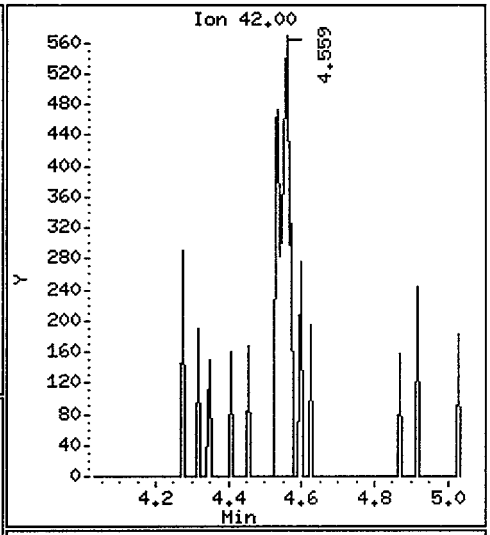
Column phase: J+W 624

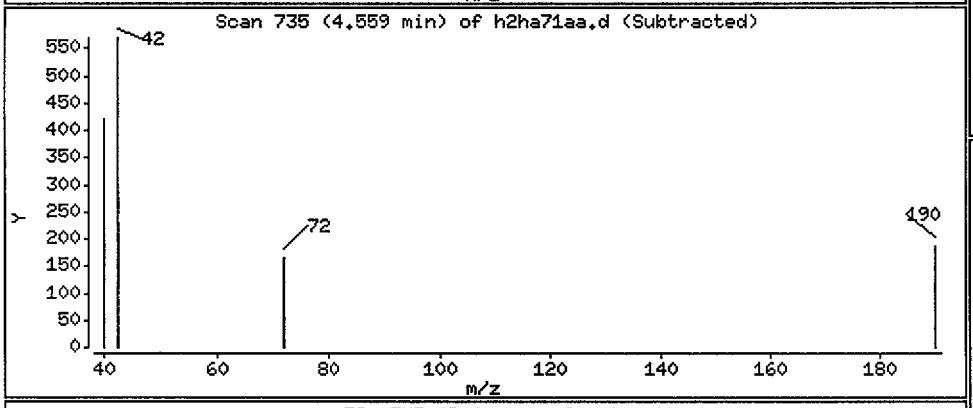
Column diameter: 0.18

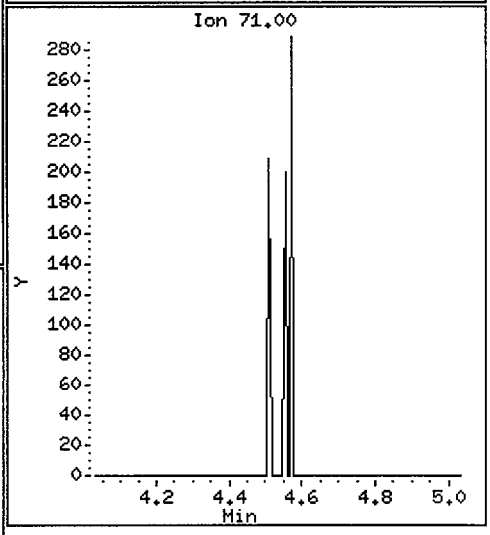
39 *THF

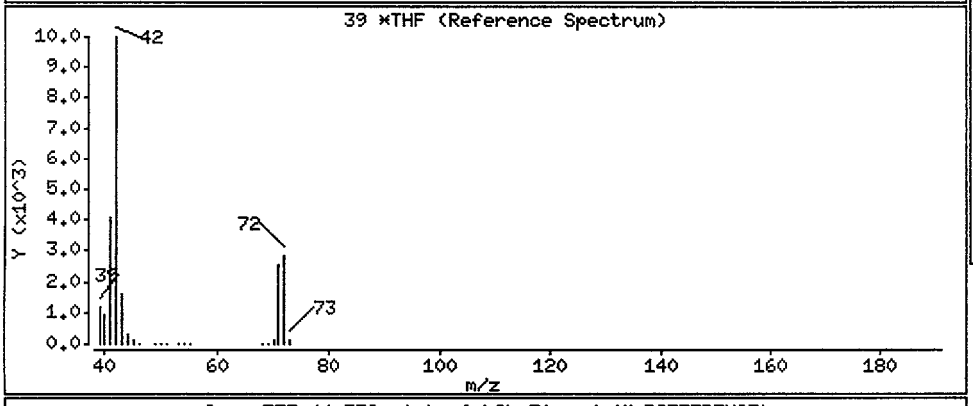
Concentration: 0.015551 ug

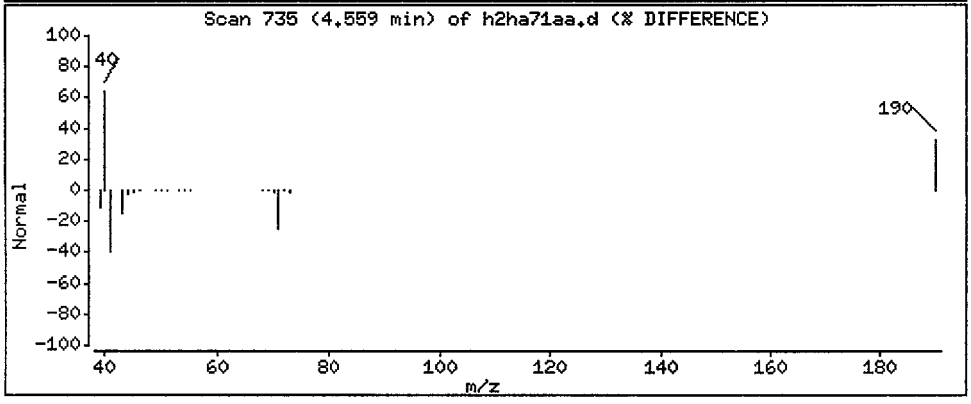












Data File: /chem/gcms/mz.i/Z040706.b/h2ha71aa.d

Date : 07-APR-2006 13:33

Client ID: G-3015-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HA71AA,1,0,,

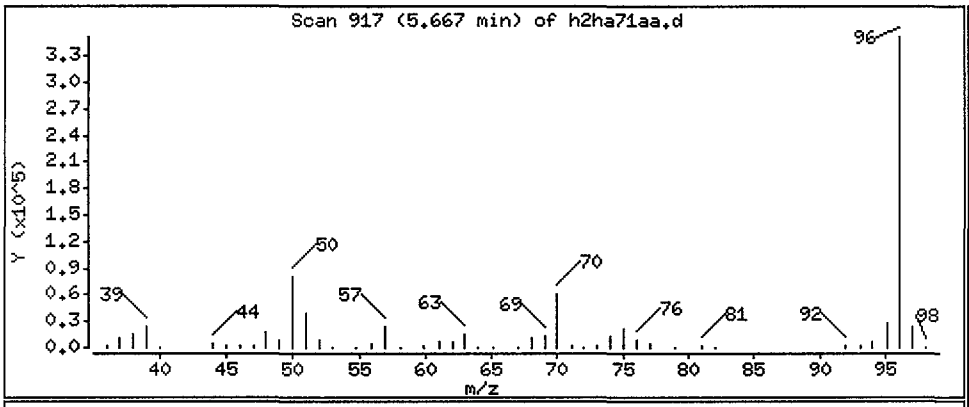
Operator: 22980

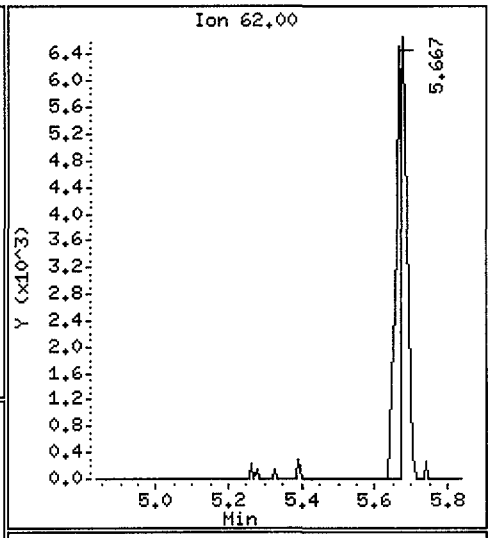
Column phase: J+W 624

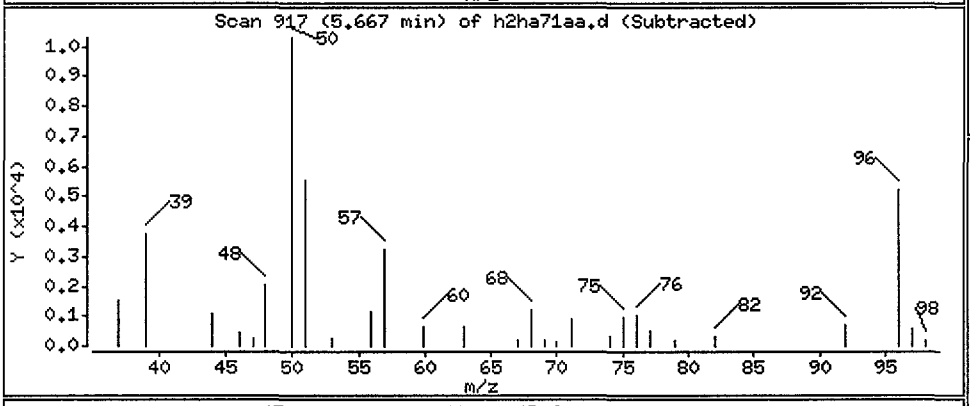
Column diameter: 0.18

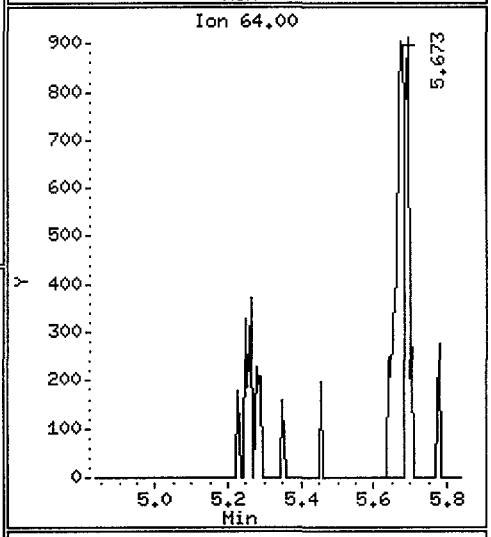
45 1,2-Dichloroethane

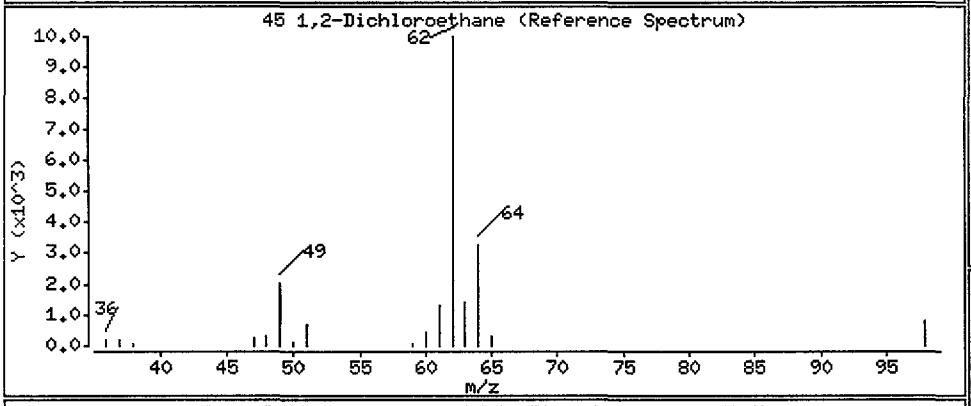
Concentration: 0.011307 ug

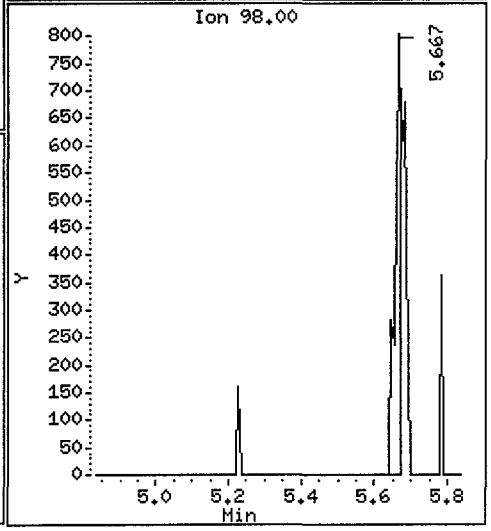


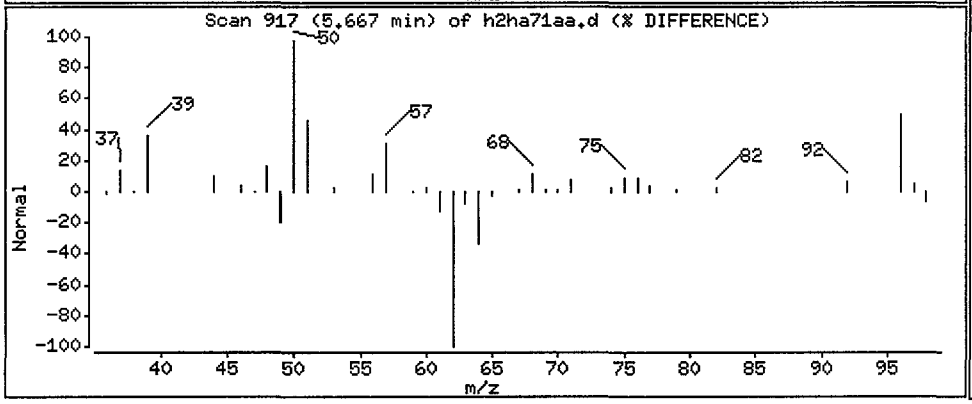












Data File: /chem/gcms/mz.i/Z040706.b/h2ha71aa.d

Date : 07-APR-2006 13:33

Client ID: G-3015-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HA71AA,1,0,,

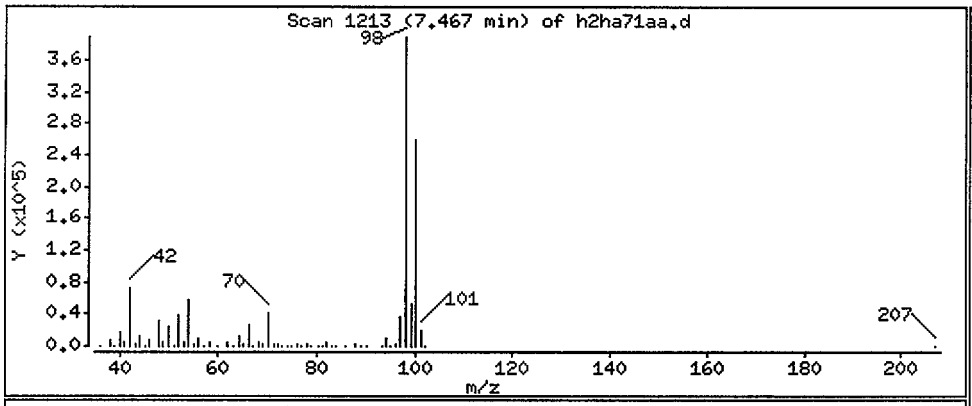
Operator: 22980

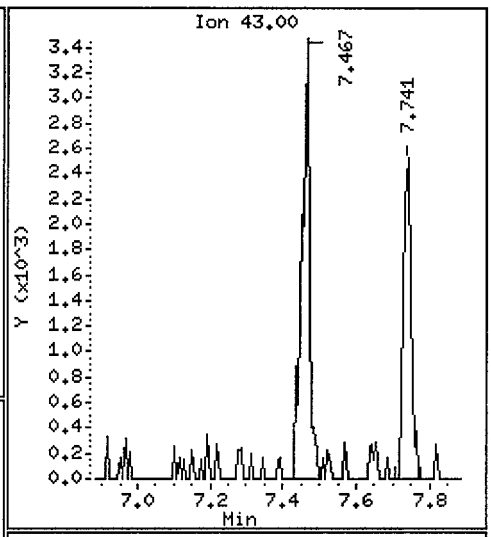
Column phase: J+W 624

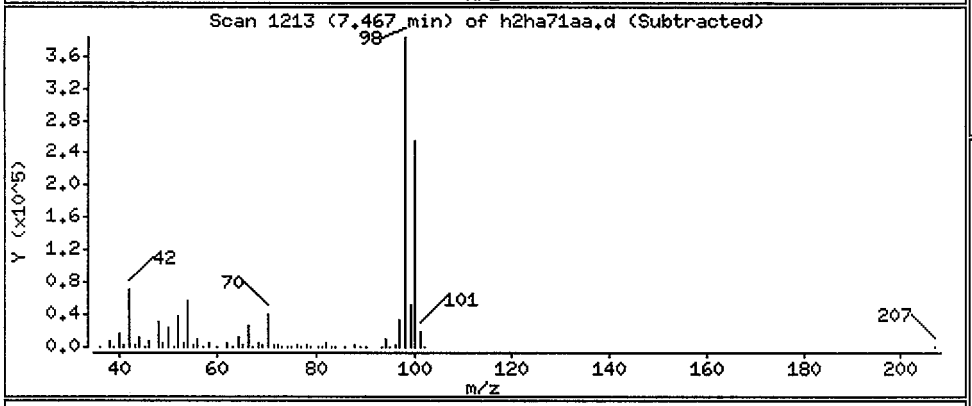
Column diameter: 0.18

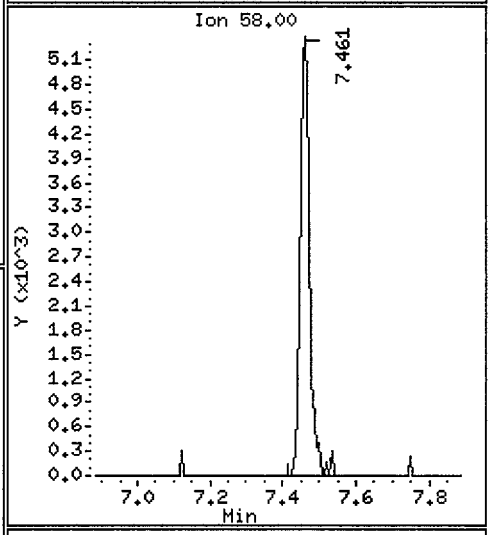
53 4-Methyl-2-pentanone

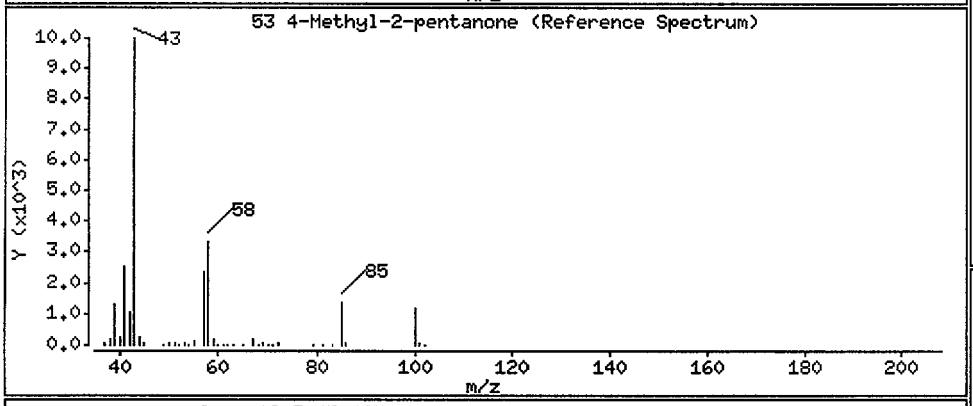
Concentration: 0.018599 ug

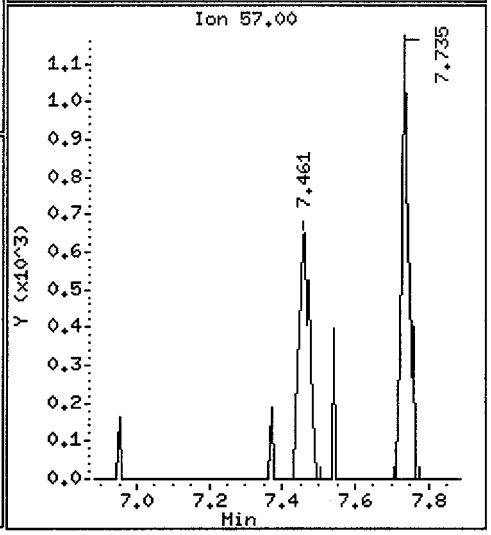


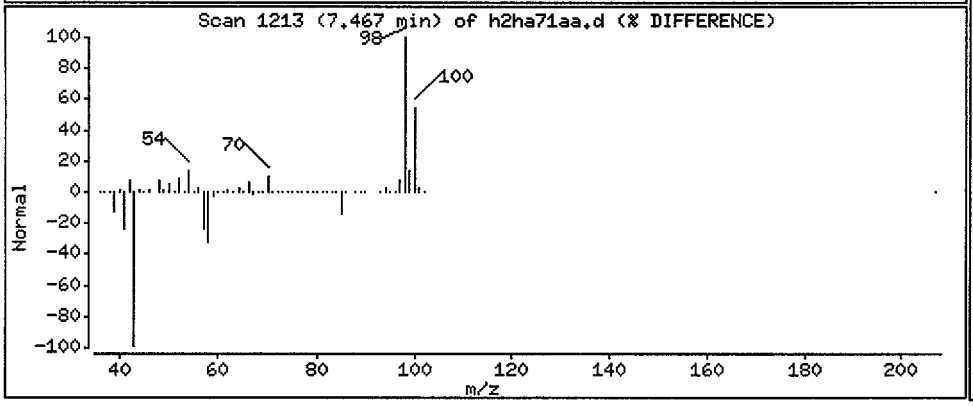












Data File: /chem/gcms/mz.i/Z040706.b/h2ha71aa.d

Date : 07-APR-2006 13:33

Client ID: G-3015-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HA71AA,1,0,,

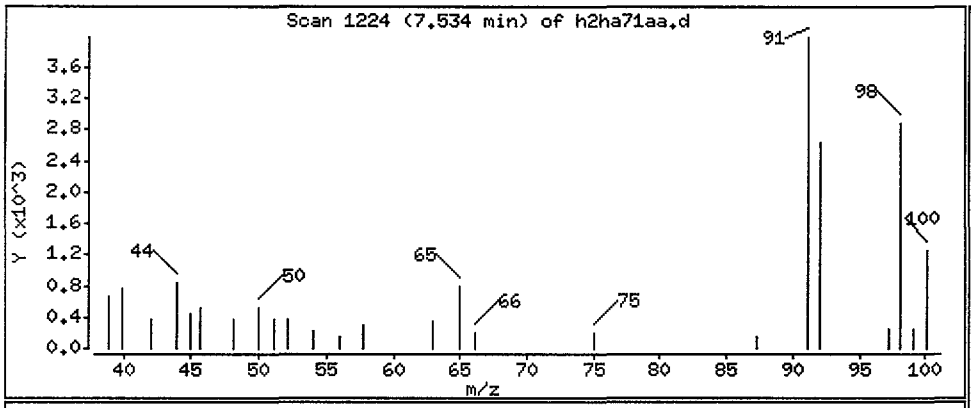
Operator: 22980

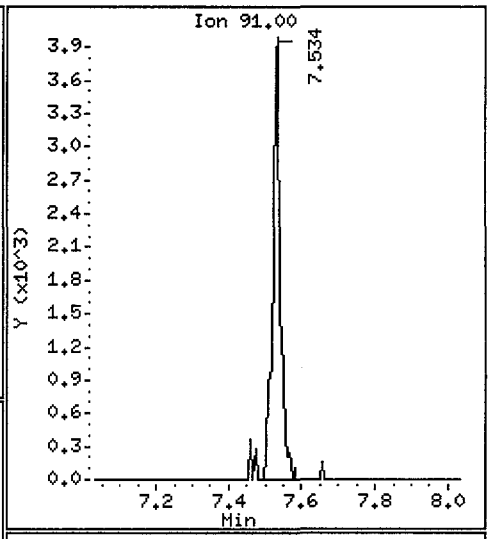
Column phase: J+W 624

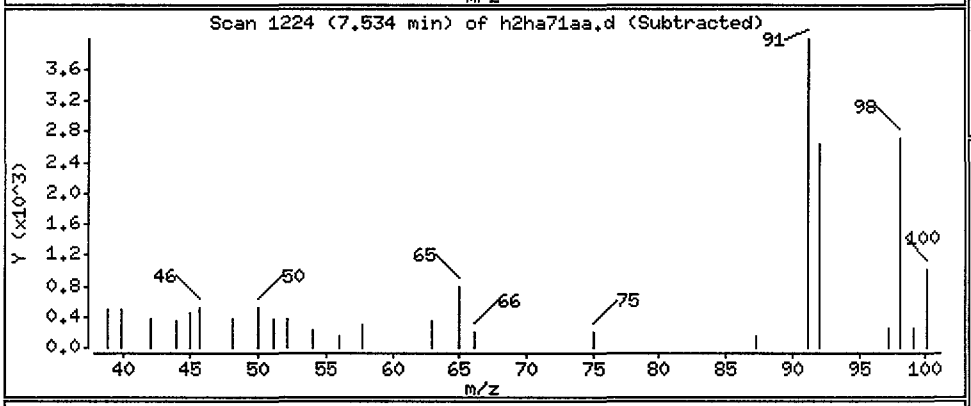
Column diameter: 0.18

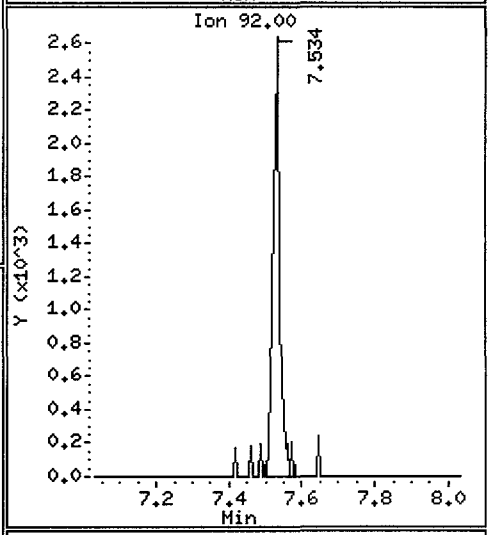
54 Toluene (ccc)

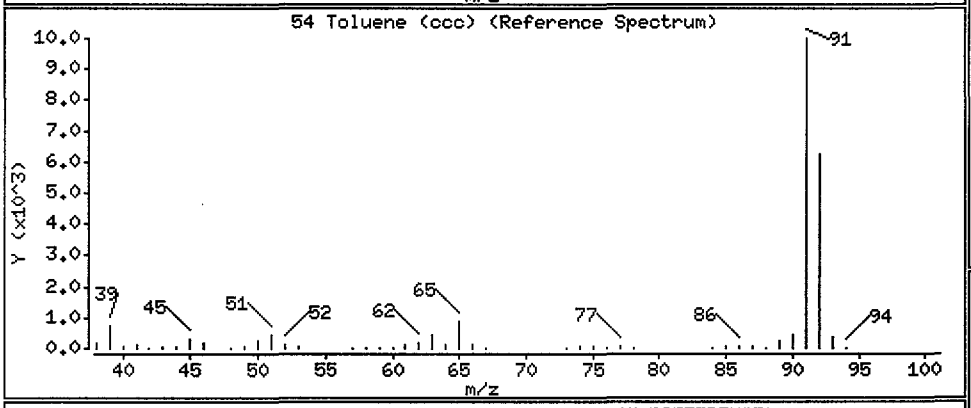
Concentration: 0.0014868 ug

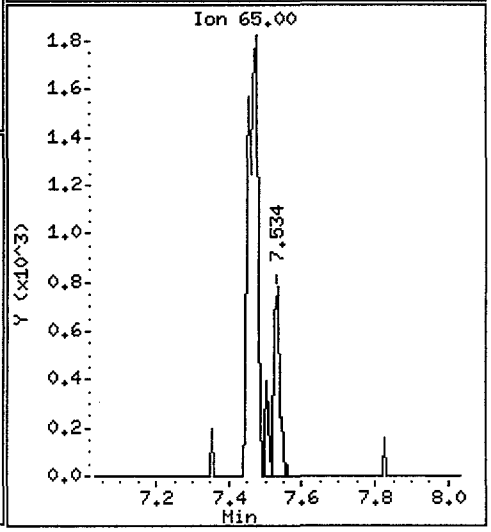


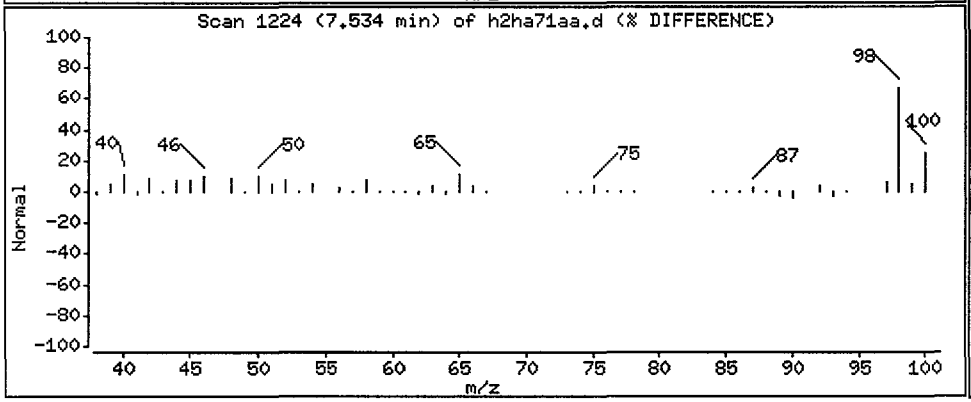












Data File: /chem/gcms/mz.i/Z040706.b/h2ha71aa.d

Date : 07-APR-2006 13:33

Client ID: G-3015-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HA71AA,1,0,,

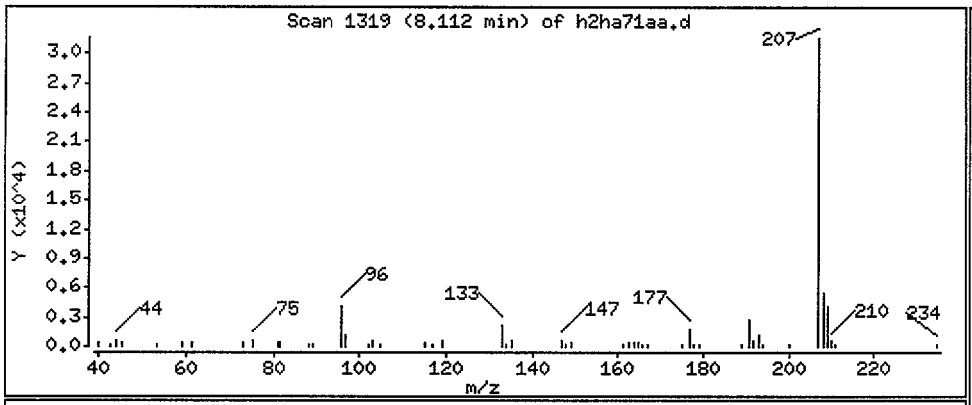
Operator: 22980

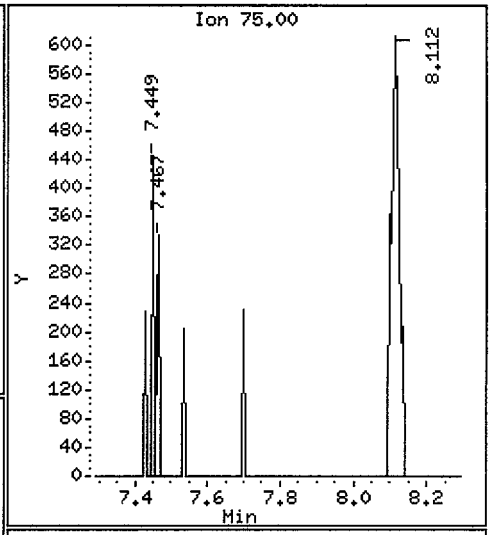
Column phase: J+W 624

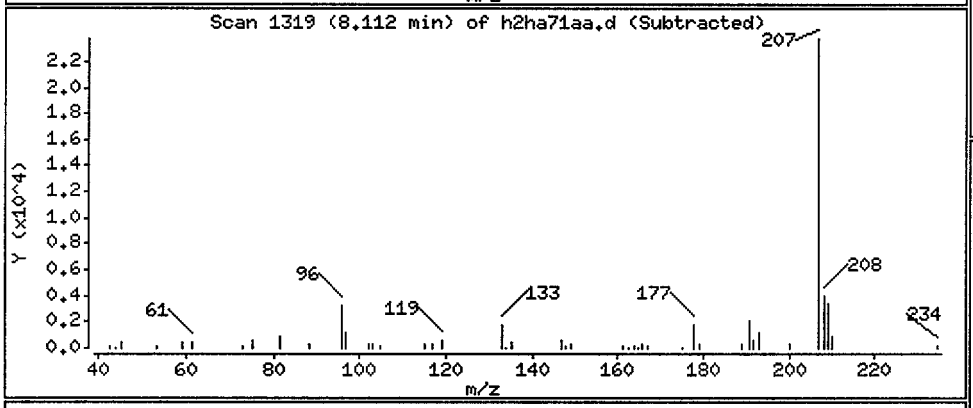
Column diameter: 0.18

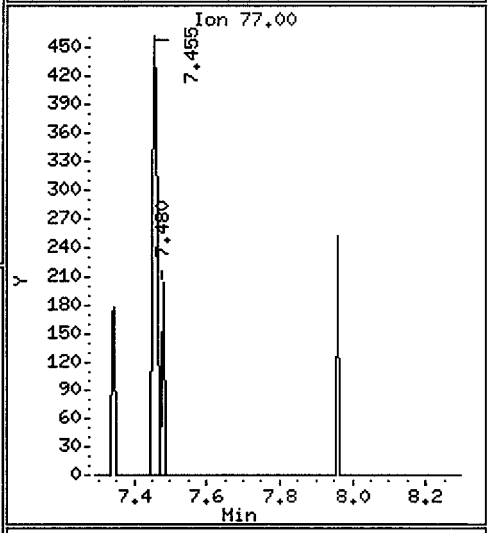
55 trans-1,3-Dichloropropene

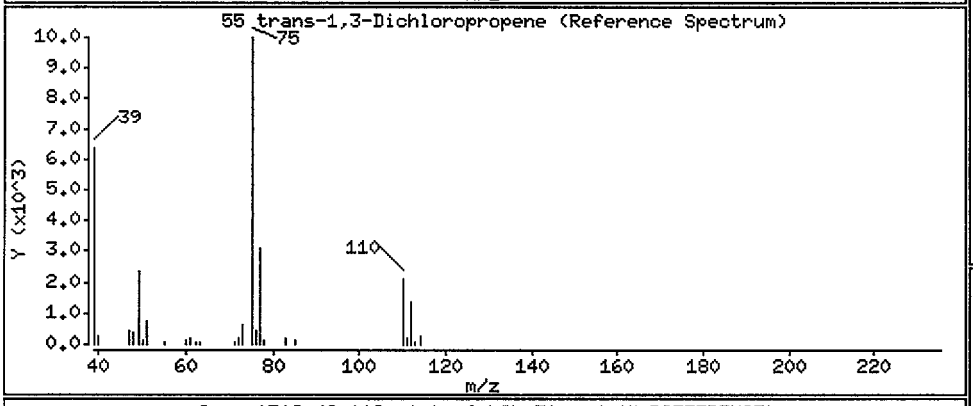
Concentration: 0.017121 ug

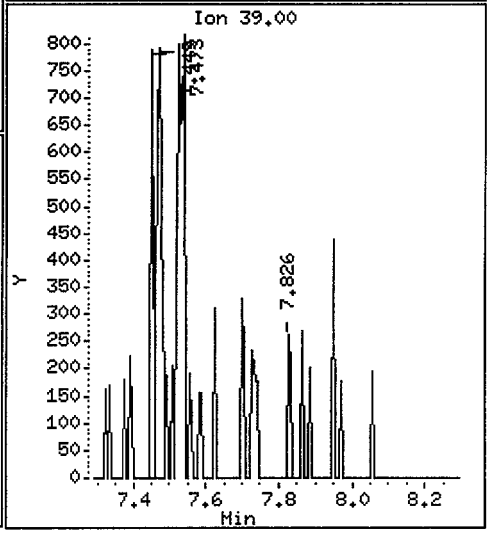


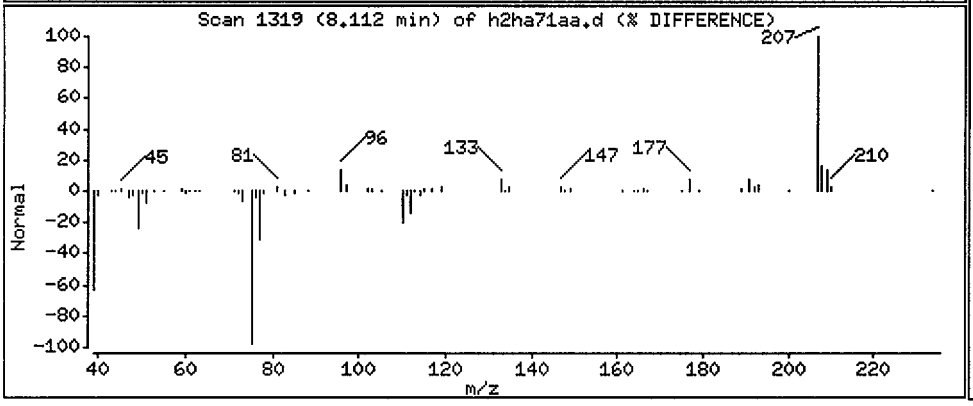












Data File: /chem/gcms/mz.i/Z040706.b/h2ha71aa.d

Date : 07-APR-2006 13:33

Client ID: G-3015-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HA71AA,1,0,,

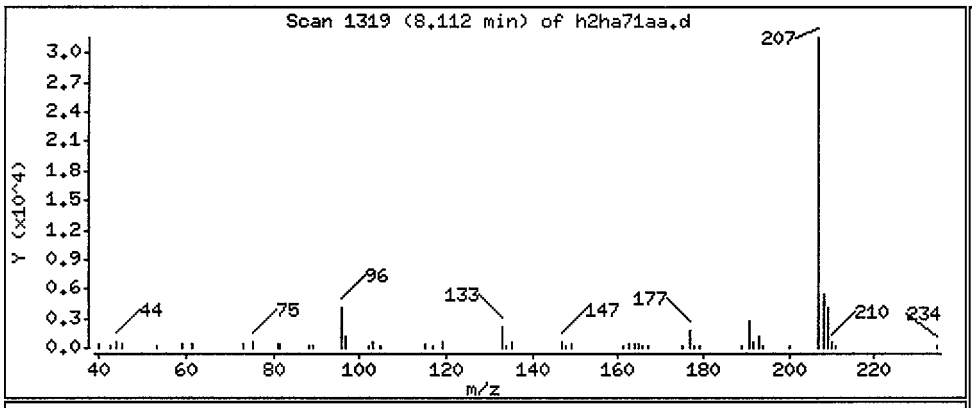
Operator: 22980

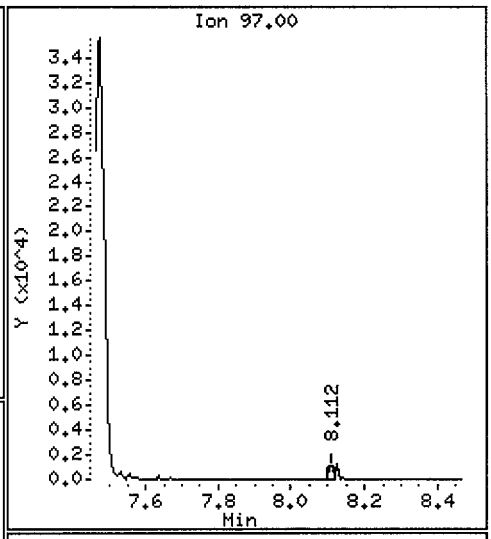
Column phase: J+W 624

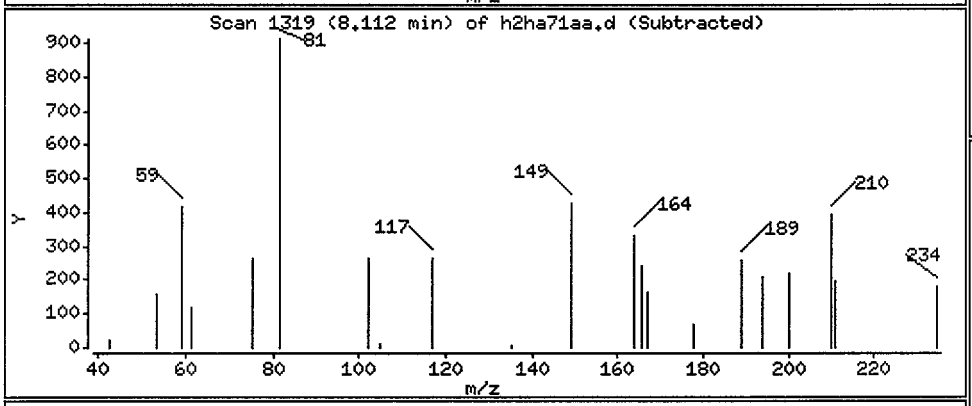
Column diameter: 0.18

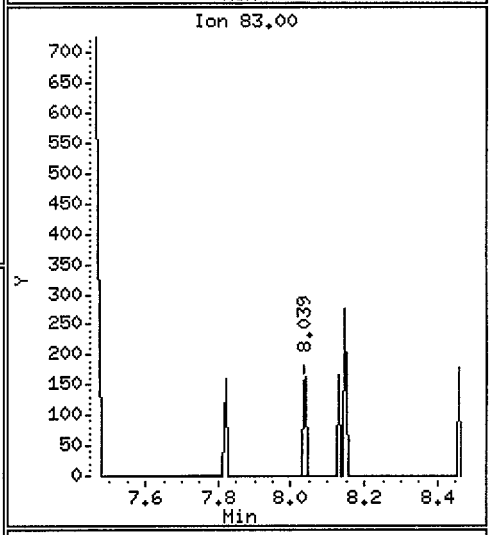
57 1,1,2-Trichloroethane

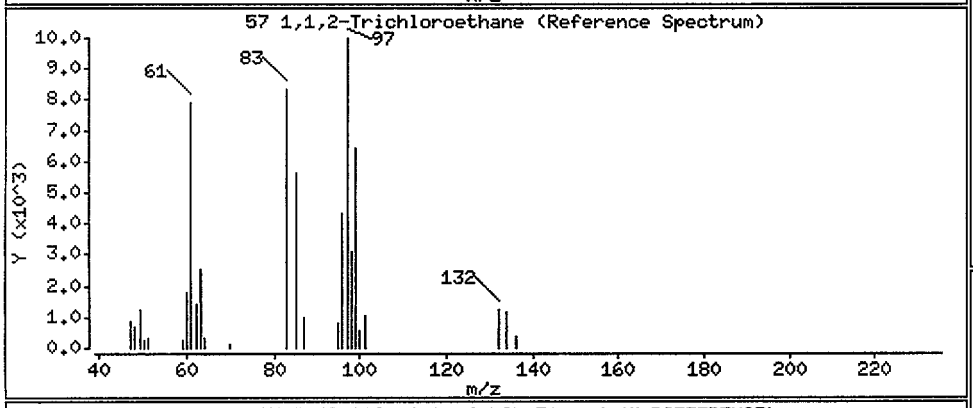
Concentration: 0.0026052 ug

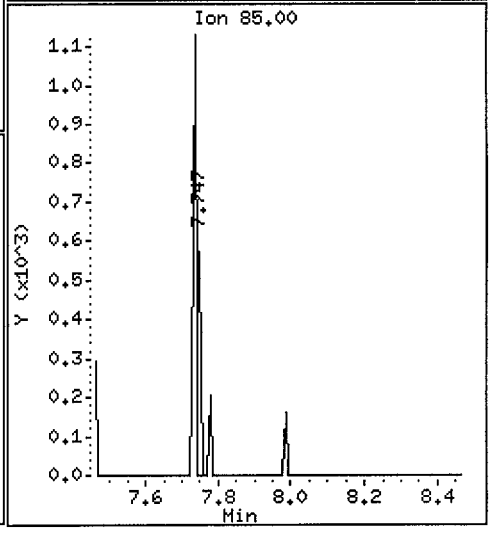


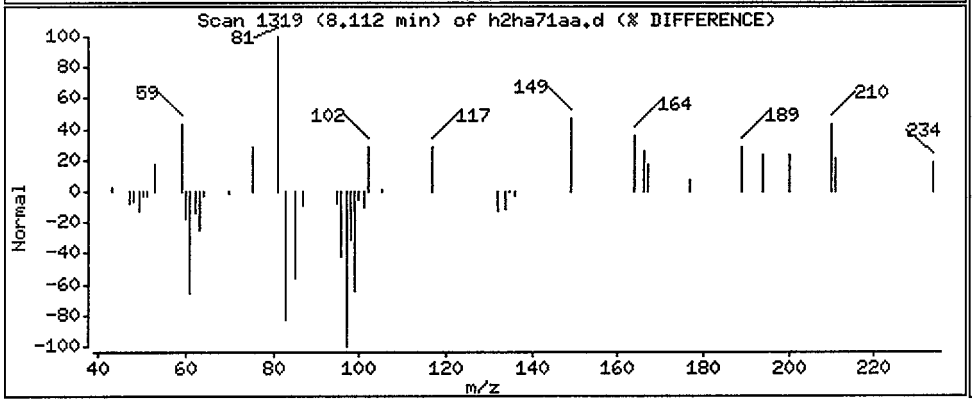












Data File: /chem/gcms/mz.i/Z040706.b/h2ha71aa.d

Date : 07-APR-2006 13:33

Client ID: G-3015-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HA71AA,1,0,,

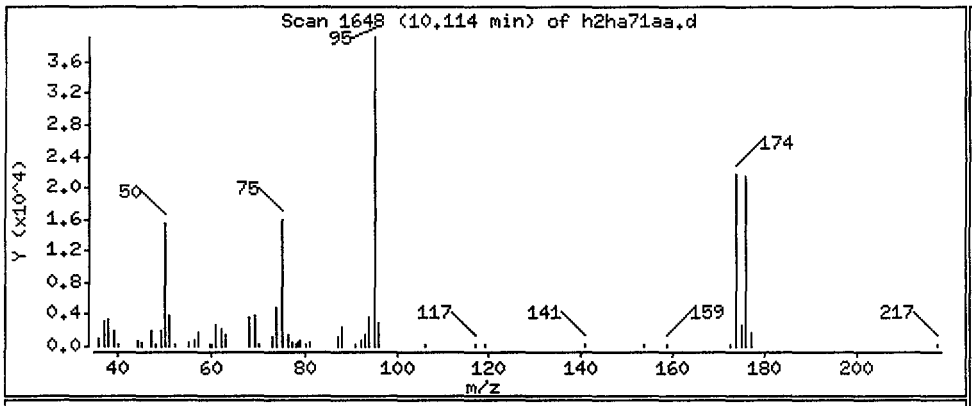
Operator: 22980

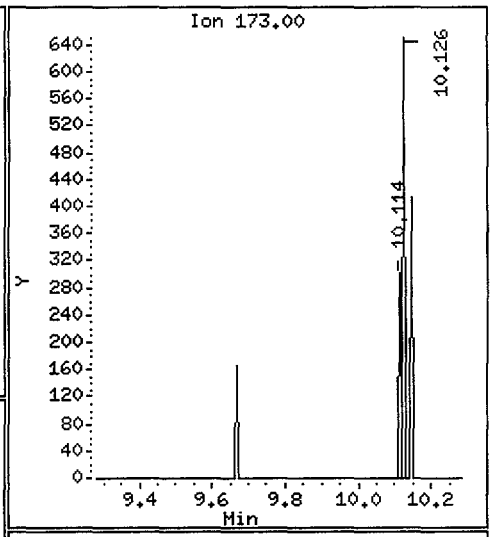
Column phase: J+W 624

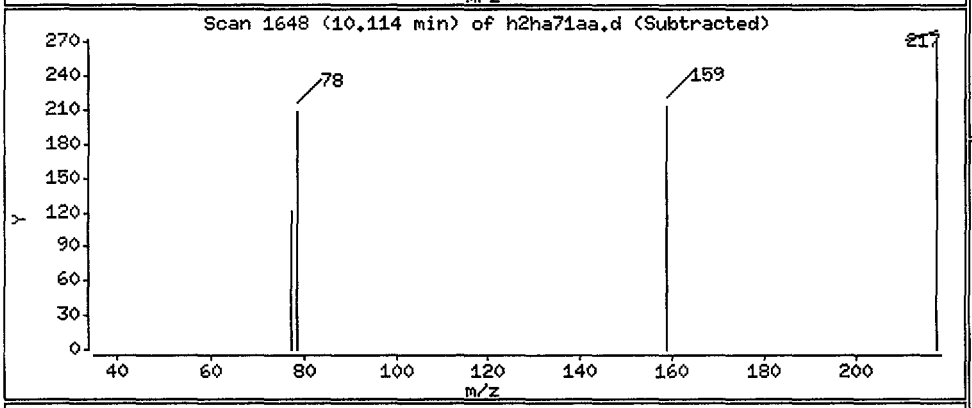
Column diameter: 0.18

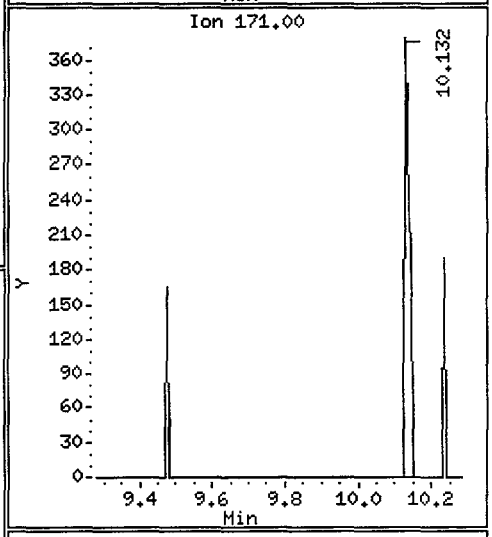
69 Bromoform (spcc)

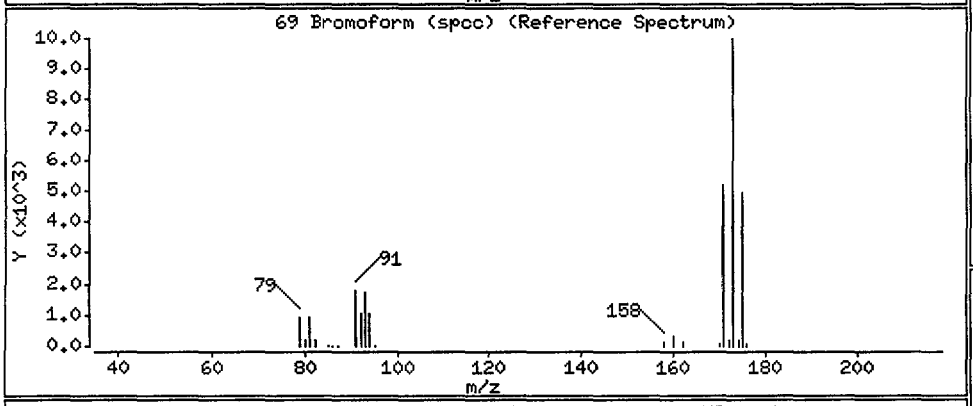
Concentration: 0.021036 ug

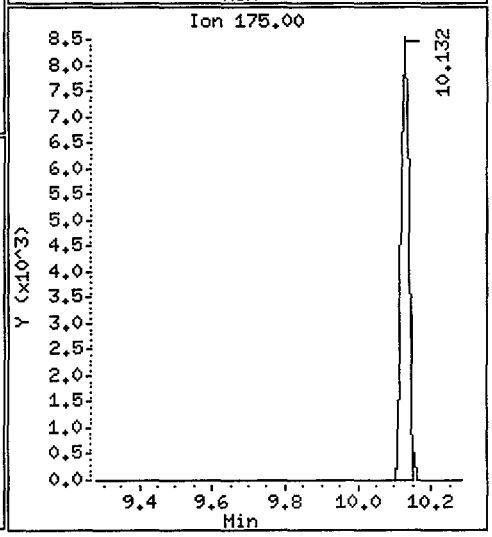


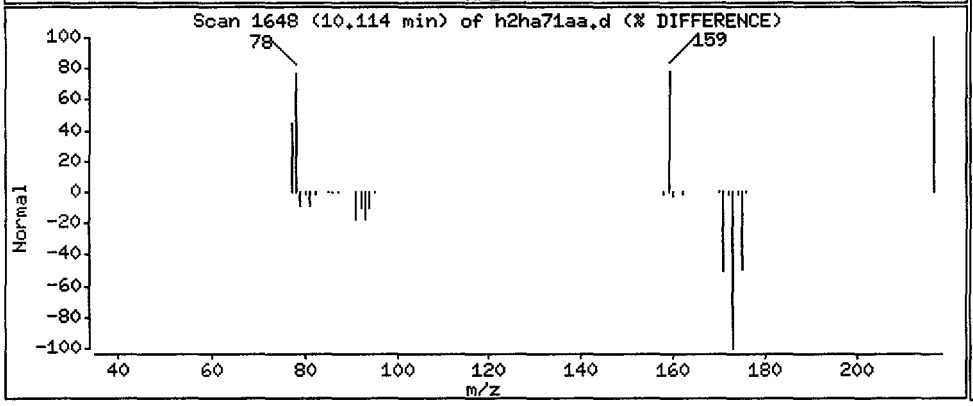












Data File: /chem/gcms/mz.i/Z040706.b/h2ha71aa.d

Date : 07-APR-2006 13:33

Client ID: G-3015-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HA71AA,1,0,,

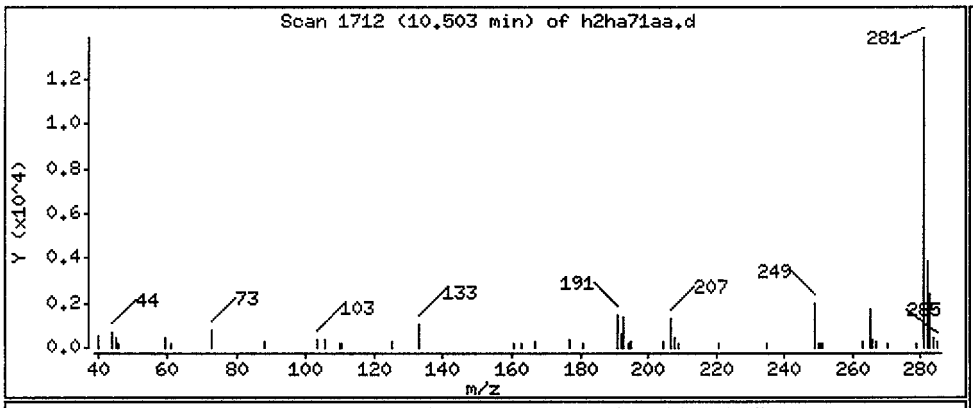
Operator: 22980

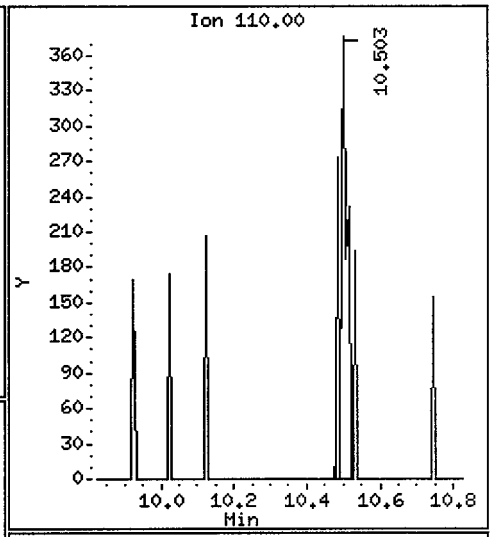
Column phase: J+W 624

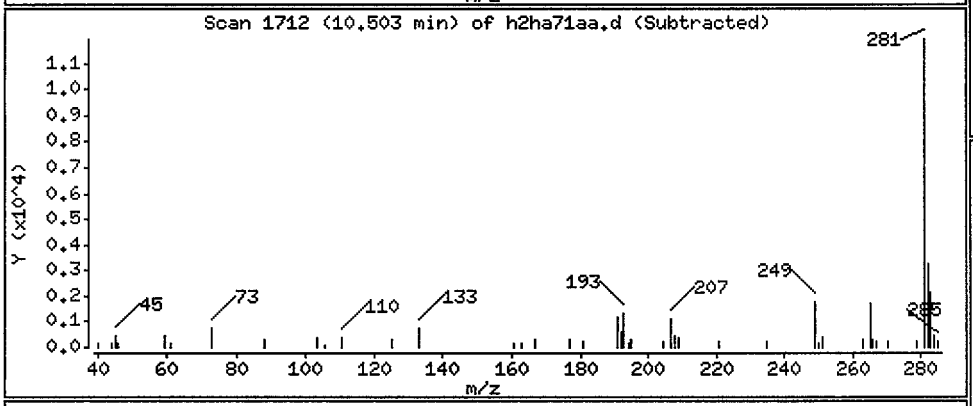
Column diameter: 0.18

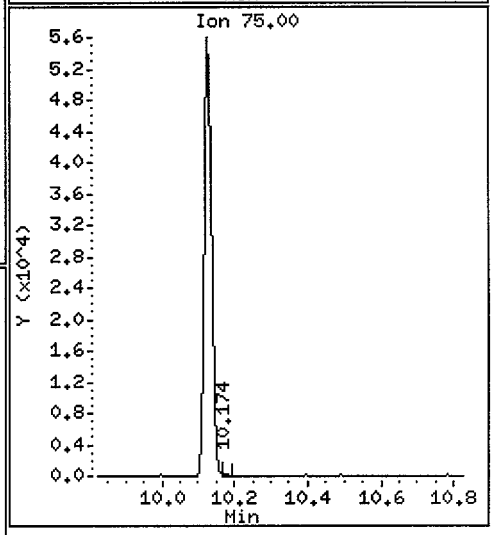
74 1,2,3-Trichloropropane

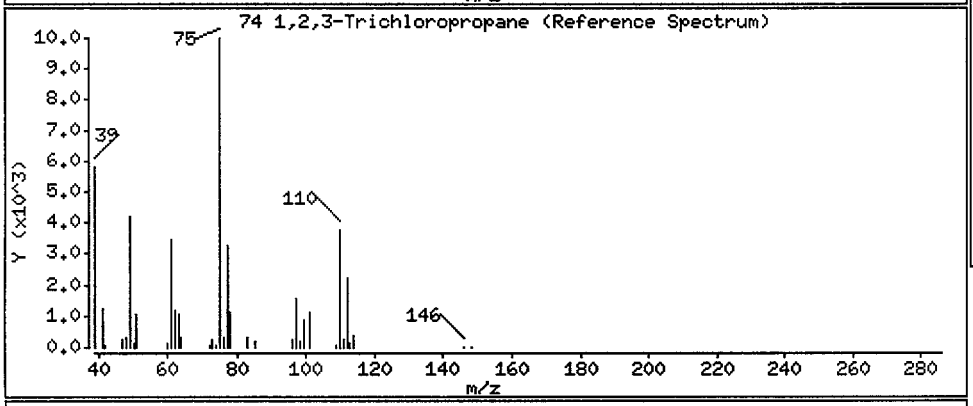
Concentration: 0.0061857 ug

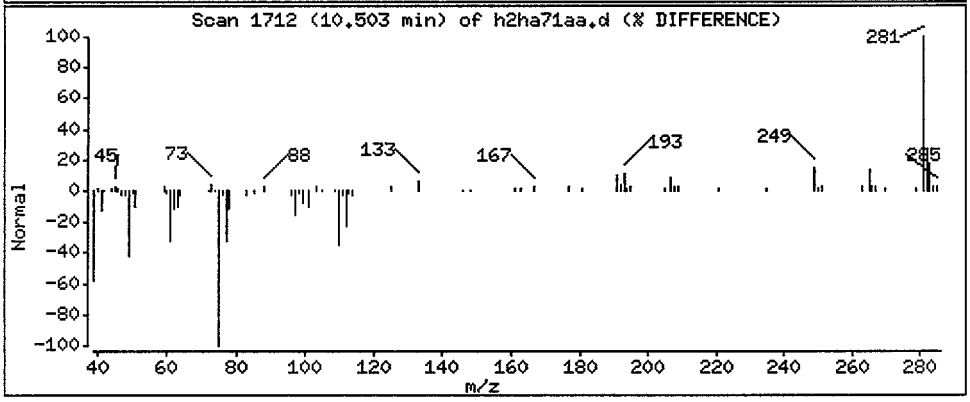












Data File: /var/chem/gcms/mz.i/Z040706.b/h2ha71aa.d
Report Date: 14-Apr-2006 17:00

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2ha71aa.d
Lab Smp Id: H2HA71AA Client Smp ID: G-3015-R2-VOST TENA
Inj Date : 07-APR-2006 13:33
Operator : 22980 Inst ID: mz.i
Smp Info : H2HA71AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.673	895141	10.000

	CONCENTRATIONS			QUANT			
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide					CAS #: 124-38-9		
0.903	1586926	17.7282238	0.44320	5	NIST05.l	80	1

C.2

JW 4.14.06

Data File: /var/chem/gcms/mz.i/Z040706.b/h2ha71aa.d

Date : 07-APR-2006 13:33

Client ID: G-3015-R2-VOST TENA

Instrument: mz.i

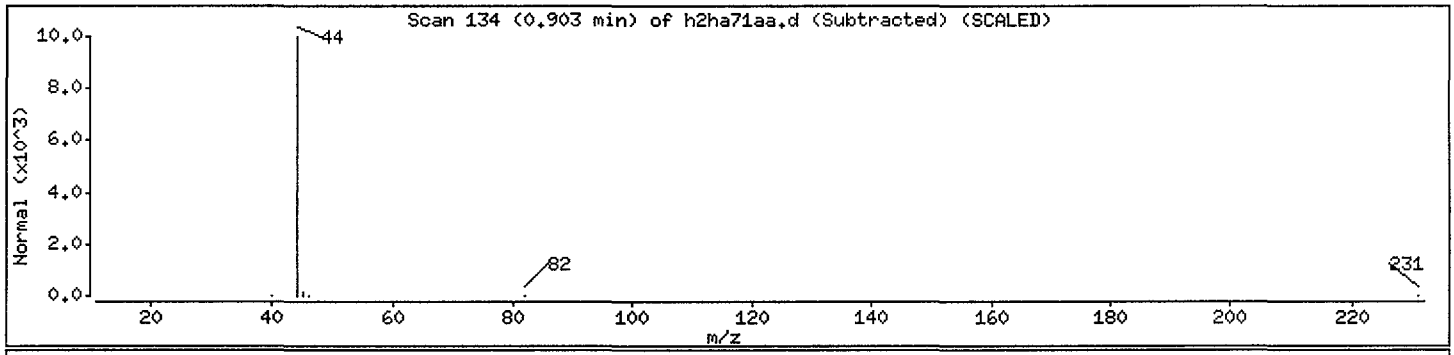
Sample Info: H2HA71AA,1,0,,

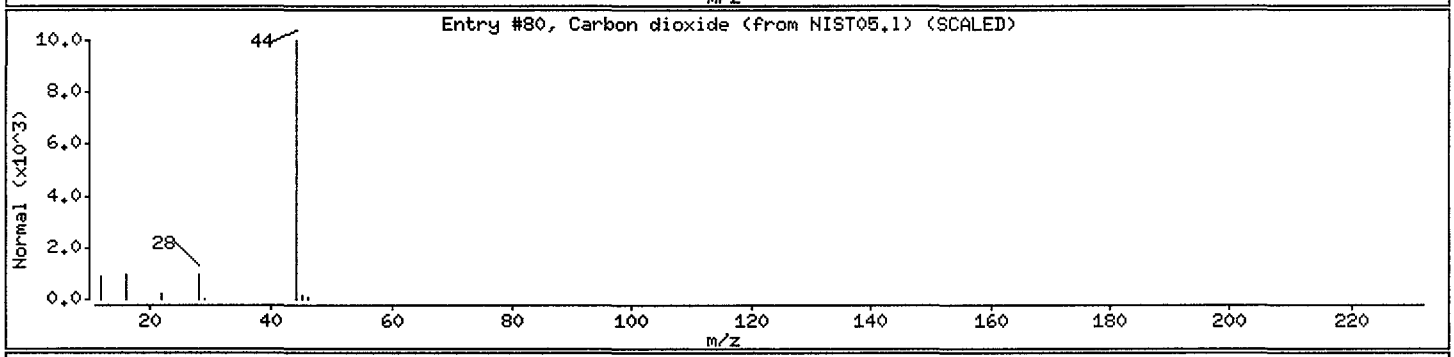
Operator: 22980

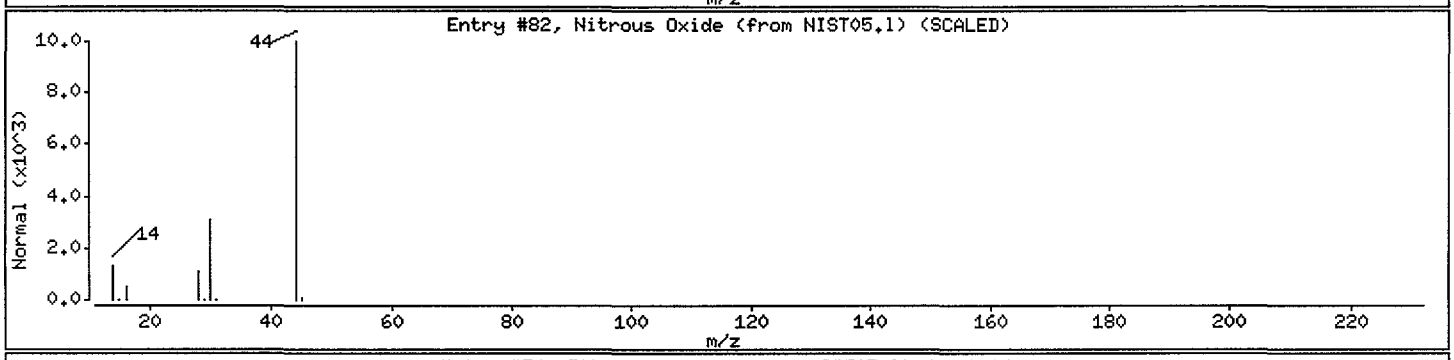
Column phase: J+W 624

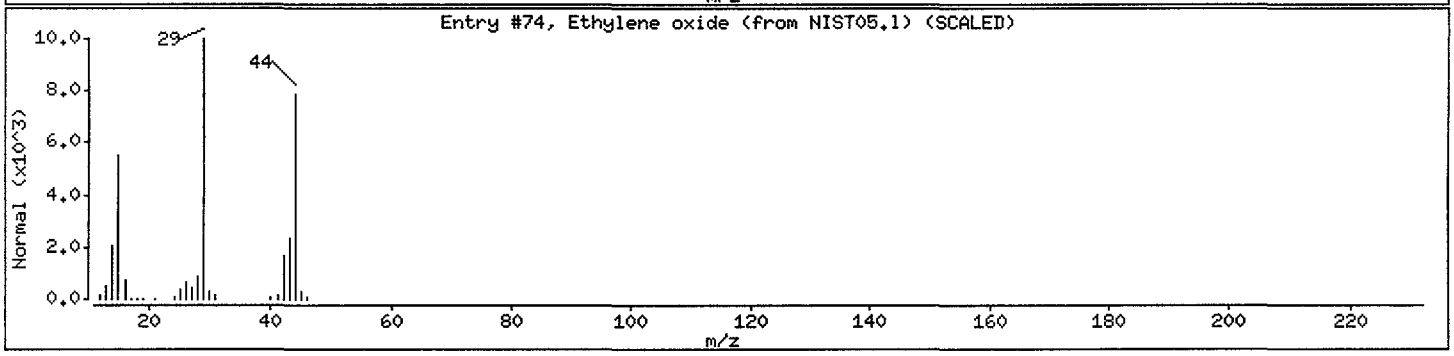
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.l	80	5	CO2	44
Nitrous Oxide	10024-97-2	NIST05.l	82	3	N2O	44
Ethylene oxide	75-21-8	NIST05.l	74	2	C2H4O	44









STL Knoxville - ACS

Client Sample ID: G-3016-R2-VOST TENAX/CHARCOAL FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-022 **Work Order #...:** H2HCA1AA **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.096 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.030 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	**0.18**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3016-R2-VOST TENAX/CHARCOAL FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-022 **Work Order #...:** H2HCA1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.016 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	108	(50 - 134)
1,2-Dichloroethane-d4	100	(50 - 134)
Toluene-d8	93	(57 - 127)
Bromofluorobenzene	87	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3016-R2-VOST TENAX/CHARCOAL FB

GC/MS Volatiles

Lot-Sample #: H6D030169-022 **Work Order #:** H2HCA1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /chem/gcms/mz.i/Z040706.b/h2hca1aa.d
Report Date: 07-Apr-2006 13:27

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040706.b/h2hca1aa.d
Lab Smp Id: H2HCA1AA Client Smp ID: G-3016-R2-VOST TENA
Inj Date : 07-APR-2006 13:09
Operator : 22980 Inst ID: mz.i
Smp Info : H2HCA1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 13:06 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug)
* 1 Fluorobenzene	96	5.673	5.676	(1.000)	825040	10.0000	
* 2 Chlorobenzene-d5	119	8.934	8.937	(1.000)	173149	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.489	11.492	(1.000)	226727	10.0000	
$ 4 Dibromofluoromethane	113	4.827	4.831	(0.851)	142478	10.7773	0.26943
$ 5 1,2-Dichloroethane-d4	65	5.241	5.238	(0.924)	114548	10.0199	0.25050
$ 6 Toluene-d8	98	7.461	7.465	(0.835)	711107	9.34699	0.23367
$ 7 4-Bromofluorobenzene	95	10.126	10.129	(0.881)	198674	8.68879	0.21722
11 Chloromethane (spcc)	50	1.123	1.126	(0.198)	362366	7.27195	0.18180
15 Bromomethane	94	1.421	1.418	(0.250)	3363	1.21642	0.030411
22 Acetone	43	2.114	2.123	(0.373)	684	3.39055	0.084764 - See reprint for (m)
23 *Iodomethane	142	2.187	2.184	(0.386)	2312	0.62981	0.015745
34 *Vinyl Acetate	86	3.148	3.407	(0.555)	136	0.12377	0.0030942
39 *THF	42	4.548	4.532	(0.802)	790	0.40368	0.010092
45 1,2-Dichloroethane	62	5.667	5.335	(0.999)	14295	0.82976	0.020744
53 4-Methyl-2-pentanone	43	7.461	7.386	(1.315)	5141	0.71355	0.017839
54 Toluene (ccc)	91	7.534	7.532	(0.843)	6840	0.06942	0.0017354

JW 4.14.06

Data File: /chem/gcms/mz.i/Z040706.b/h2hca1aa.d
Report Date: 07-Apr-2006 13:27

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
55 trans-1,3-Dichloropropene	75	8.125	7.793	(0.909)	2018	0.75344	0.018836

DCM 4.14.06

Data File: /var/chem/gcms/mz.i/Z040706.b/h2hca1aa.d
Report Date: 14-Apr-2006 16:40

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2hca1aa.d
Lab Smp Id: H2HCA1AA Client Smp ID: G-3016-R2-VOST TENA
Inj Date : 07-APR-2006 13:09
Operator : 22980 Inst ID: mz.i
Smp Info : H2HCA1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug)
* 1 Fluorobenzene	96	5.673	5.676	(1.000)	825040	10.0000	
* 2 Chlorobenzene-d5	119	8.934	8.937	(1.000)	173149	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.489	11.492	(1.000)	226727	10.0000	
$ 4 Dibromofluoromethane	113	4.827	4.831	(0.851)	142478	10.7773	0.26943
$ 5 1,2-Dichloroethane-d4	65	5.241	5.238	(0.924)	114548	10.0199	0.25050
$ 6 Toluene-d8	98	7.461	7.465	(0.835)	711107	9.34700	0.23367
$ 7 4-Bromofluorobenzene	95	10.126	10.129	(0.881)	198674	8.68881	0.21722
11 Chloromethane (spcc)	50	1.123	1.126	(0.198)	362366	7.27195	0.18180
15 Bromomethane	94	1.421	1.418	(0.250)	3363	1.21637	0.030409
22 Acetone	43	2.132	2.123	(0.376)	2970	3.84775	0.096194 (MH)
23 *Iodomethane	142	2.187	2.184	(0.386)	2312	0.62979	0.015745
39 *THF	42	4.548	4.532	(0.802)	790	0.40357	0.010089
54 Toluene (ccc)	91	7.534	7.532	(0.843)	6840	0.06941	0.0017353

Data File: /var/chem/gcms/mz.i/Z040706.b/h2hca1aa.d
Report Date: 14-Apr-2006 16:40

QC Flag Legend

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

Data File: /chem/gcms/mz.i/Z040706.b/h2hca1aa.d
Report Date: 07-Apr-2006 13:27

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2hca1aa.d
Lab Smp Id: H2HCA1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 07:35
Client Smp ID: G-3016-R2-VOST TENA
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	952581	476290	1905162	825040	-13.39
2 Chlorobenzene-d5	164101	82050	328202	173149	5.51
3 1,4 Dichlorobenze	204390	102195	408780	226727	10.93

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.68	5.18	6.18	5.67	-0.06
2 Chlorobenzene-d5	8.94	8.44	9.44	8.93	-0.04
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	-0.03

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

Data File: /chem/gcms/mz.i/Z040706.b/h2hca1aa.d
Report Date: 07-Apr-2006 13:27

STL Knoxville

RECOVERY REPORT

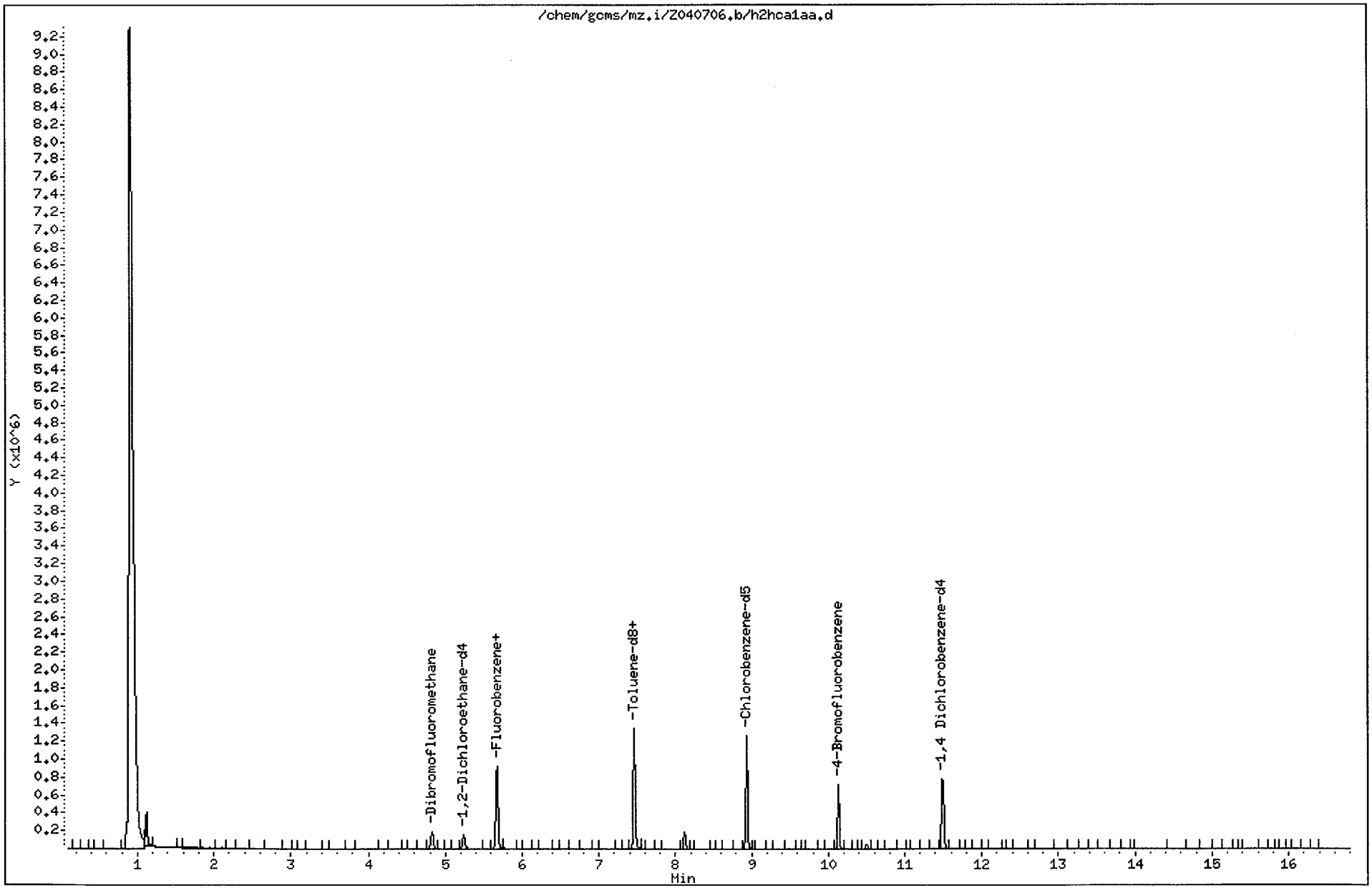
Client Name: STL Knoxville - ACS
Client SDG: H6D030169
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: H2HCA1AA
Client Smp ID: G-3016-R2-VOST TENA
Level: LOW
Operator: 22980
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allcmpds.spk
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.26943	107.77	50-150
$ 5 1,2-Dichloroethane	0.25000	0.25050	100.20	50-150
$ 6 Toluene-d8	0.25000	0.23367	93.47	50-150
$ 7 4-Bromofluorobenze	0.25000	0.21722	86.89	50-150

Data File: /chem/gcms/mz.i/Z040706.b/h2hca1aa.d
Date : 07-APR-2006 13:09
Client ID: G-3016-R2-VOST TENA
Sample Info: H2HCA1AA,1,0,,

Instrument: mz.i
Operator: 22980
Column diameter: 0.18

Column phase: J+W 624



Data File: /chem/gcms/mz.i/Z040706.b/h2hca1aa.d

Date : 07-APR-2006 13:09

Client ID: G-3016-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HCA1AA,1,0,,

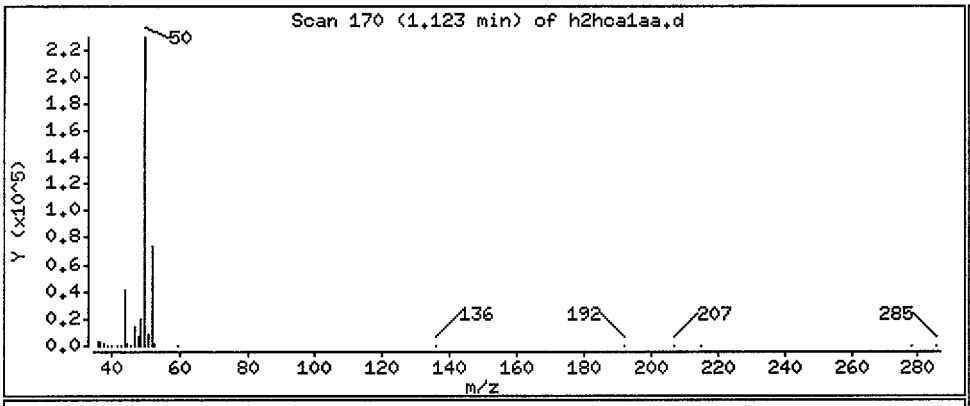
Operator: 22980

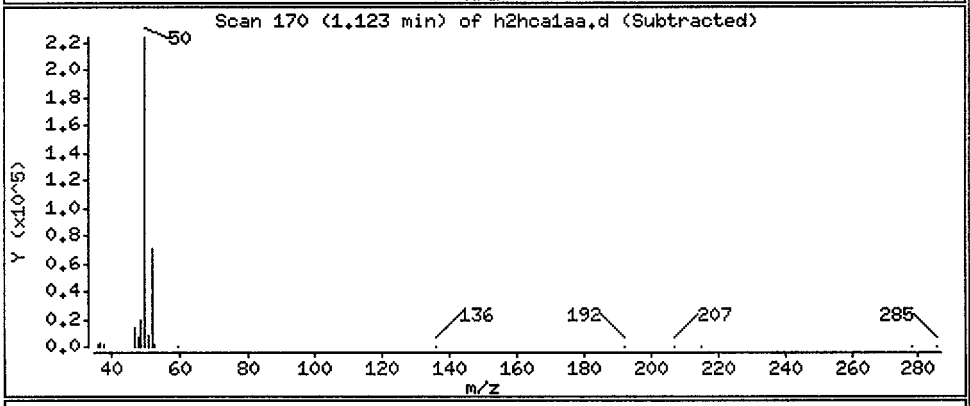
Column phase: J+W 624

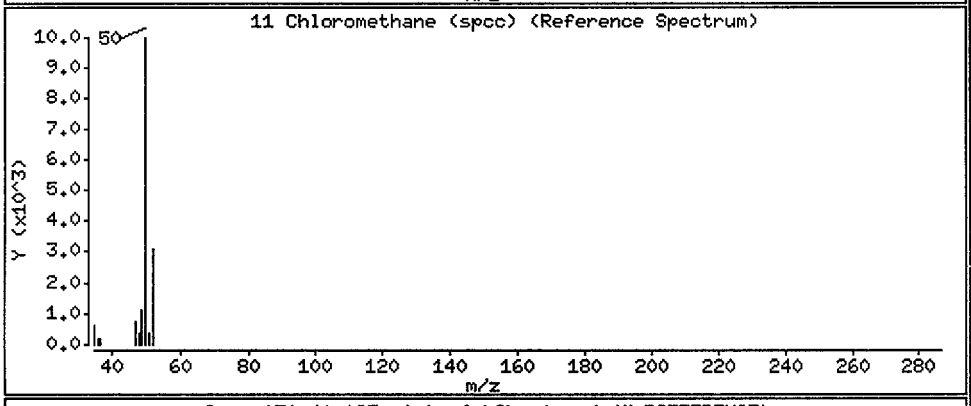
Column diameter: 0.18

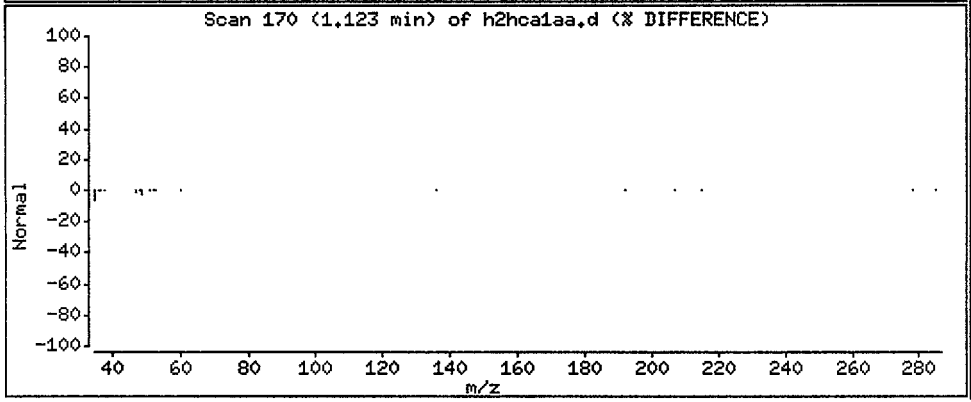
11 Chloromethane (spcc)

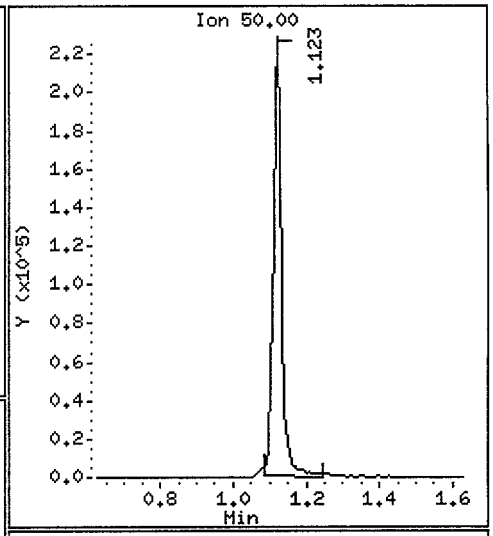
Concentration: 0.18180 ug

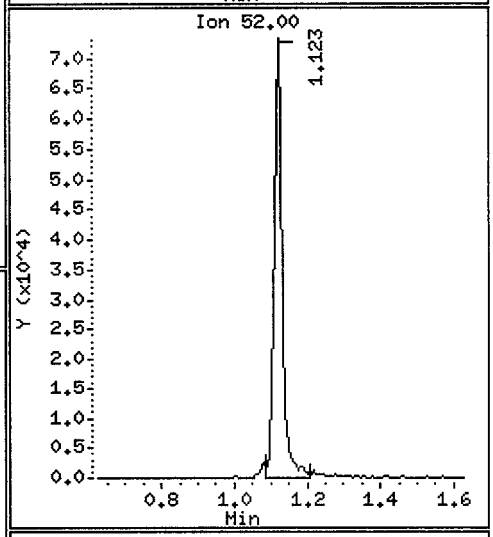


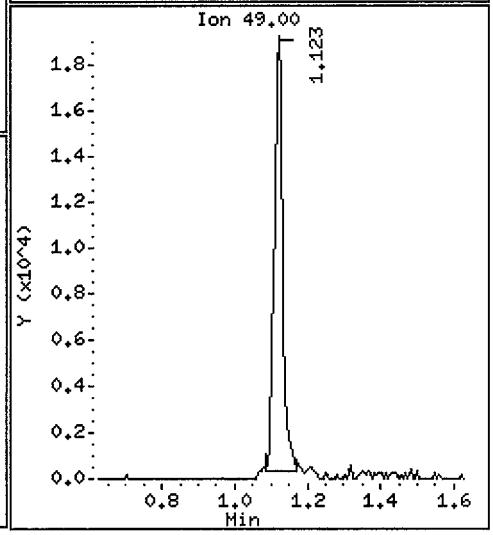












Data File: /chem/gcms/mz.i/Z040706.b/h2hca1aa.d

Date : 07-APR-2006 13:09

Client ID: G-3016-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HCA1AA,1,0,,

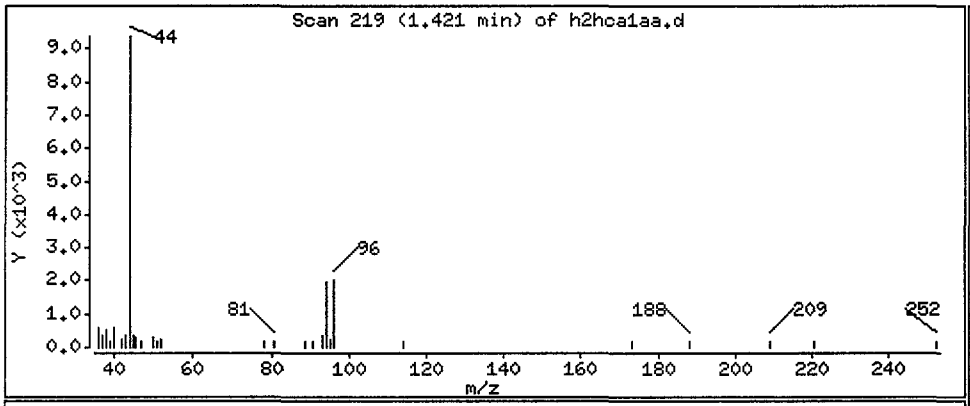
Operator: 22980

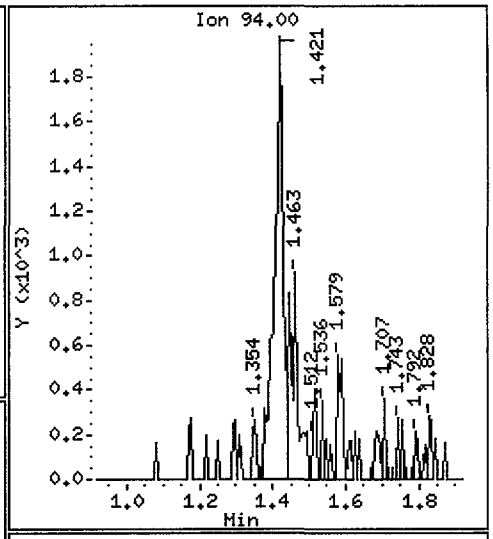
Column phase: J+W 624

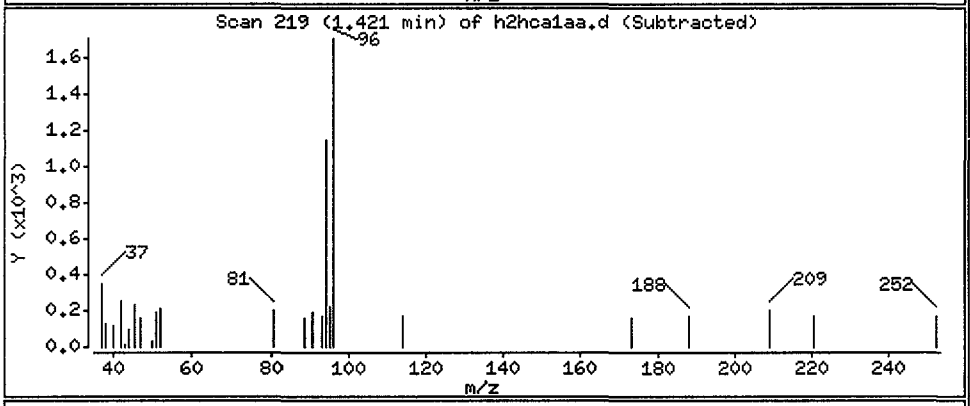
Column diameter: 0.18

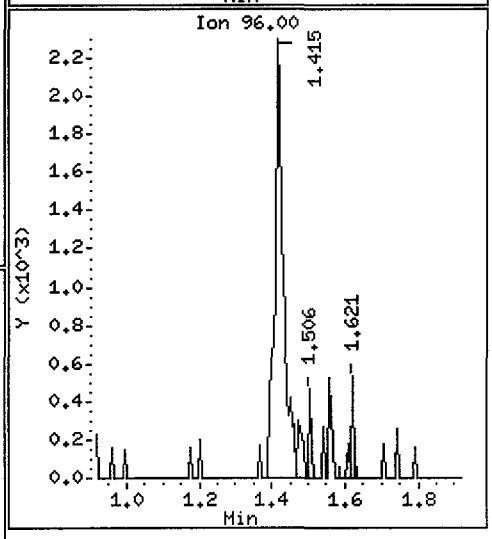
15 Bromomethane

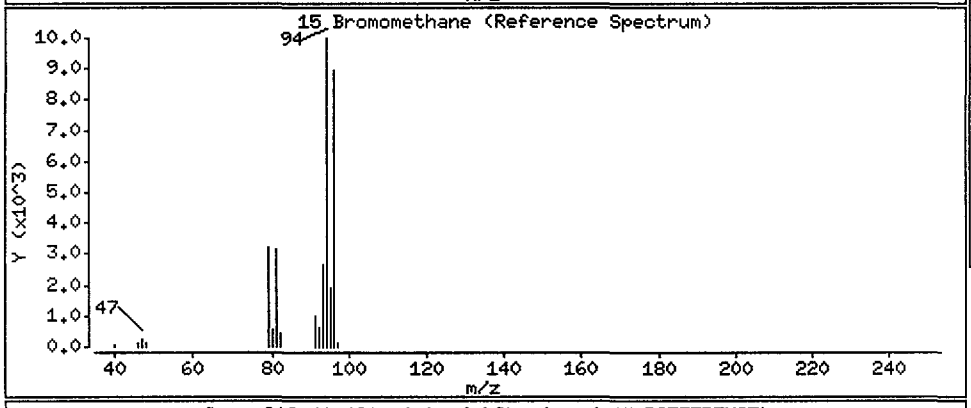
Concentration: 0.030411 ug

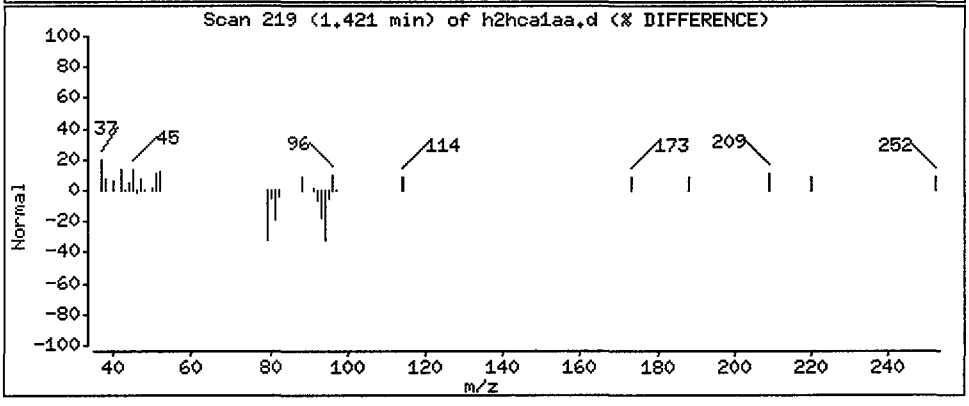












Data File: /var/chem/gcms/mz.i/Z040706.b/h2hca1aa.d

Date : 07-APR-2006 13:09

Client ID: G-3016-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HCA1AA,1,0,,

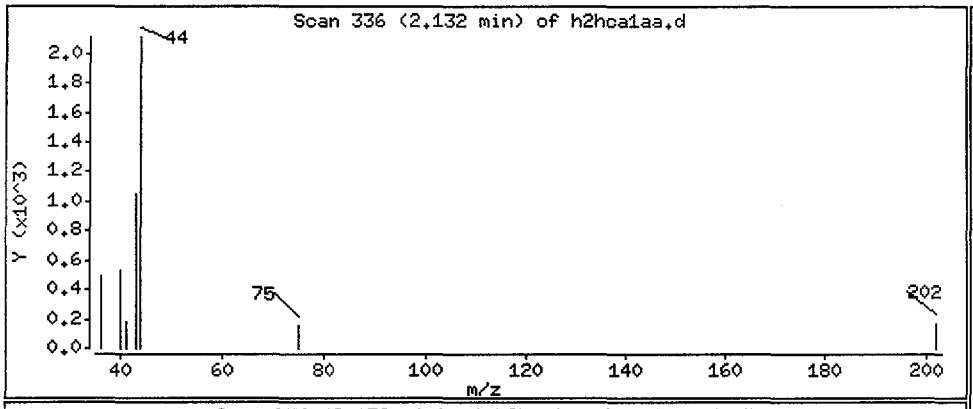
Operator: 22980

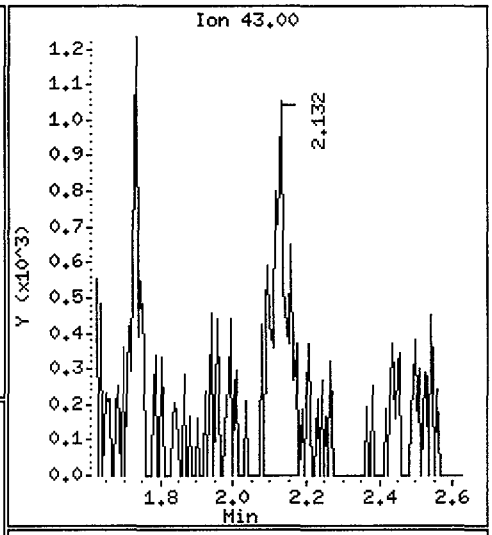
Column phase: J+W 624

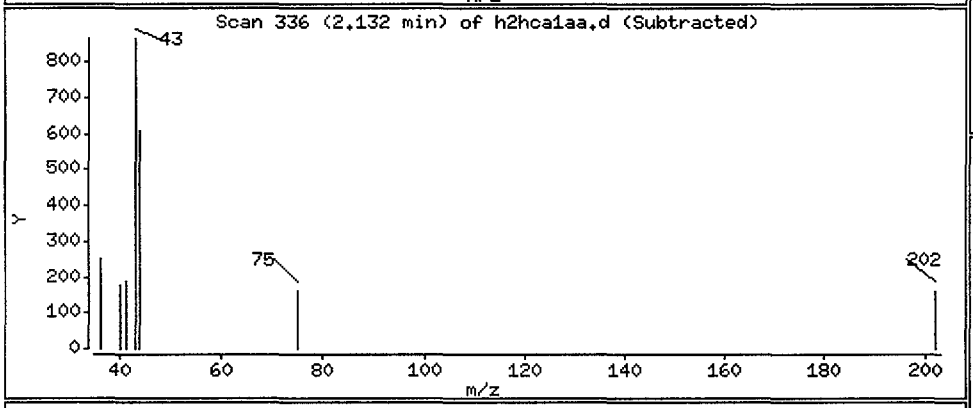
Column diameter: 0.18

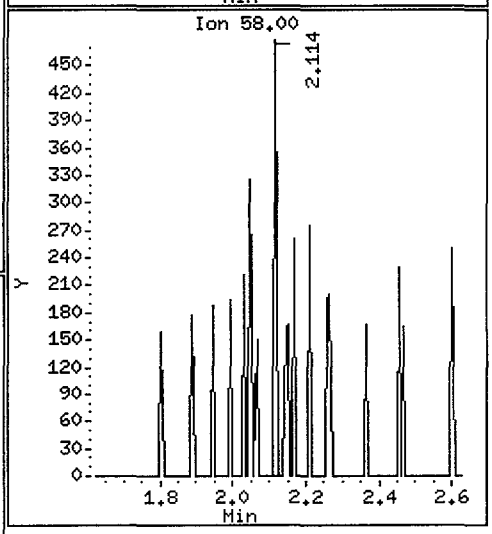
22 Acetone

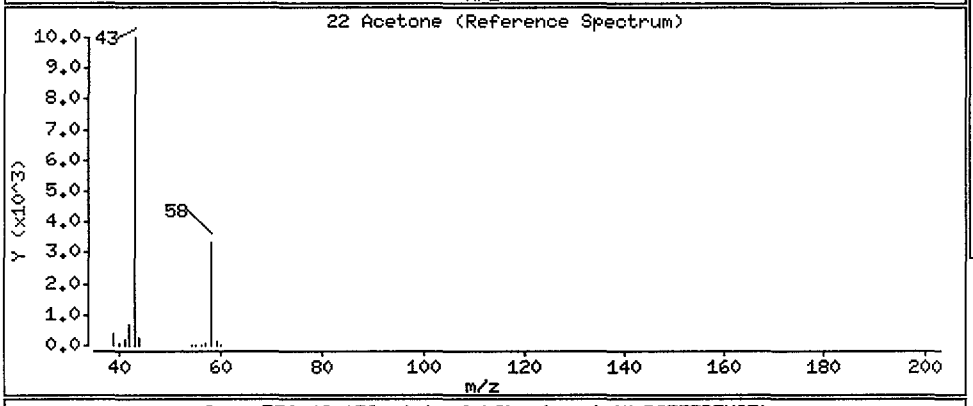
Concentration: 0.096194 ug

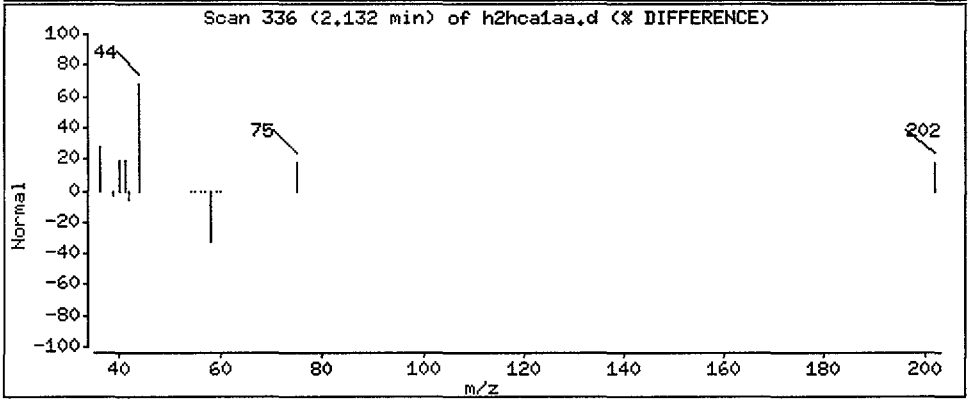












Data File: /chem/gcms/mz.i/Z040706.b/h2hca1aa.d

Date : 07-APR-2006 13:09

Client ID: G-3016-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HCA1AA,1,0,,

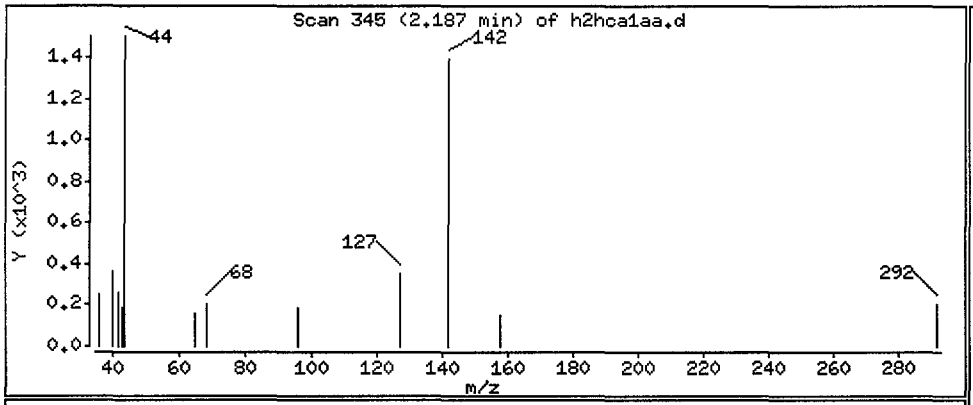
Operator: 22980

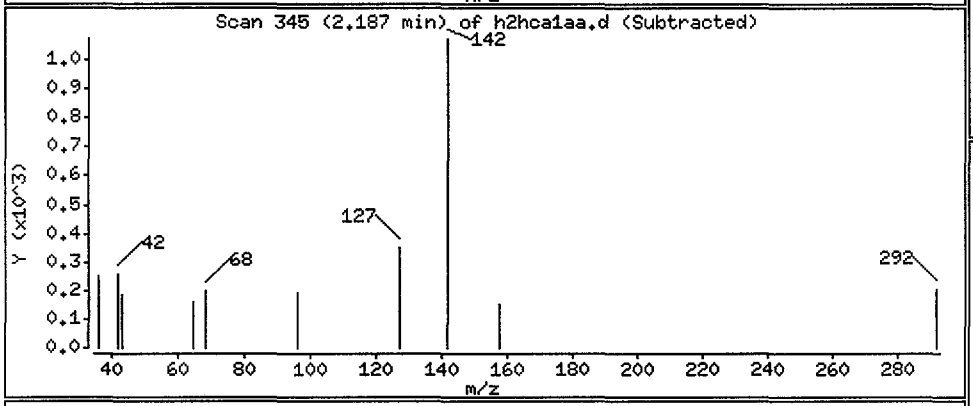
Column phase: J+W 624

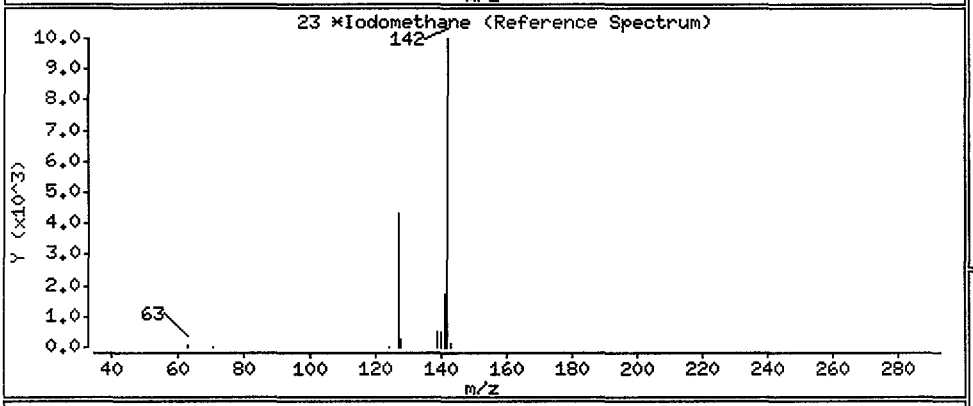
Column diameter: 0.18

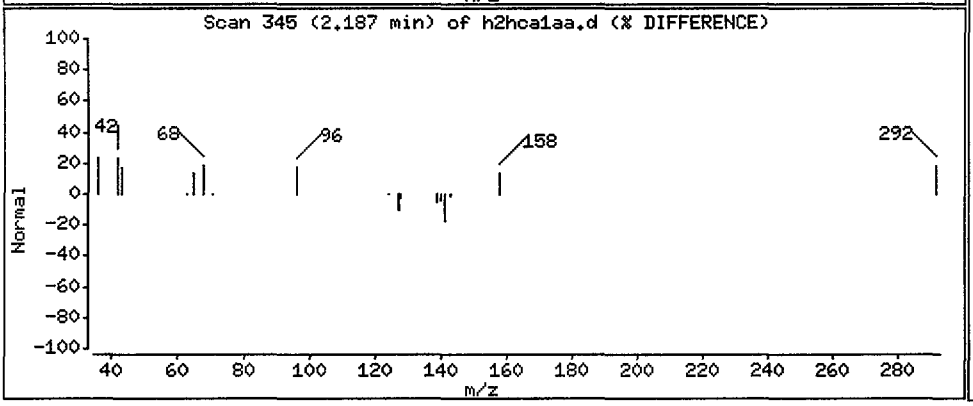
23 *Iodomethane

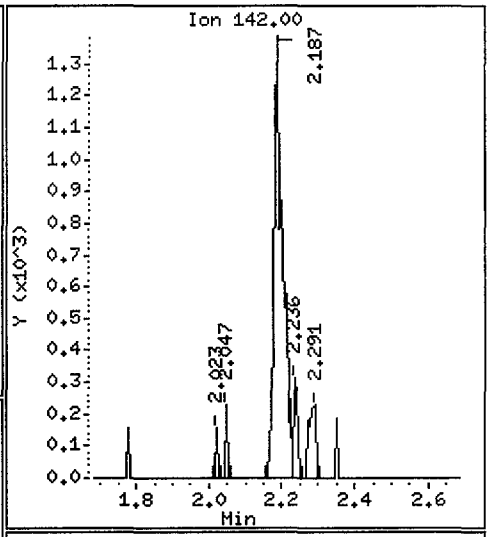
Concentration: 0.015745 ug

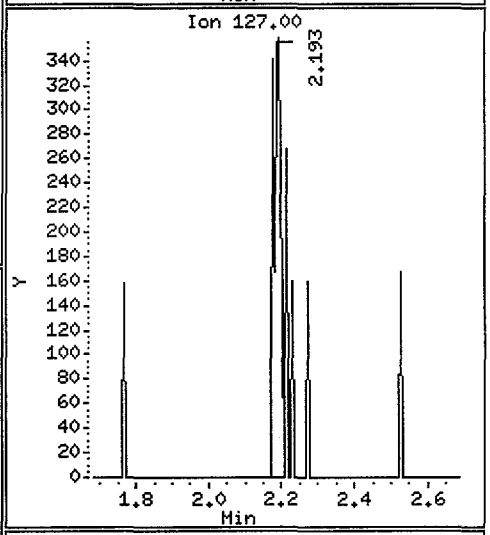


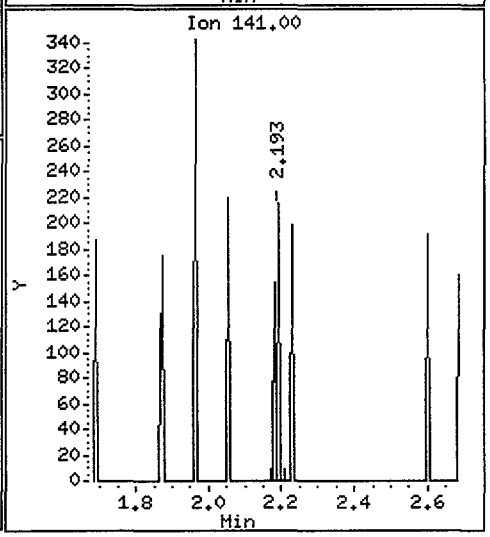












Data File: /chem/gcms/mz.i/Z040706.b/h2hca1aa.d

Date : 07-APR-2006 13:09

Client ID: G-3016-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HCA1AA,1,0,,

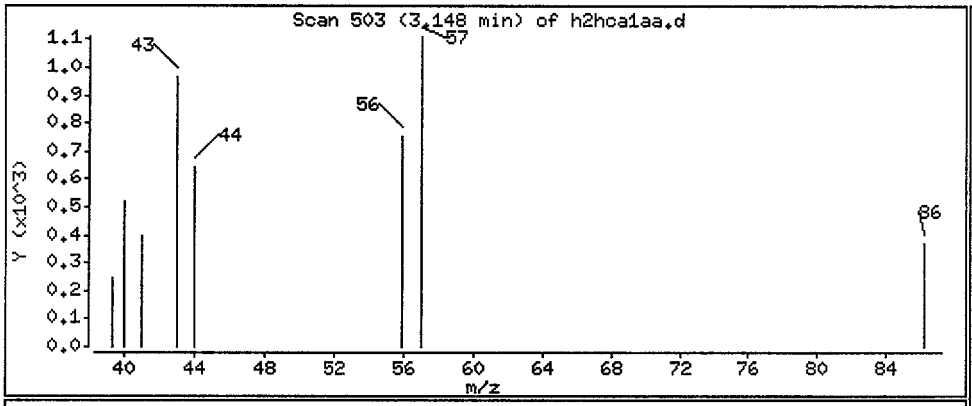
Operator: 22980

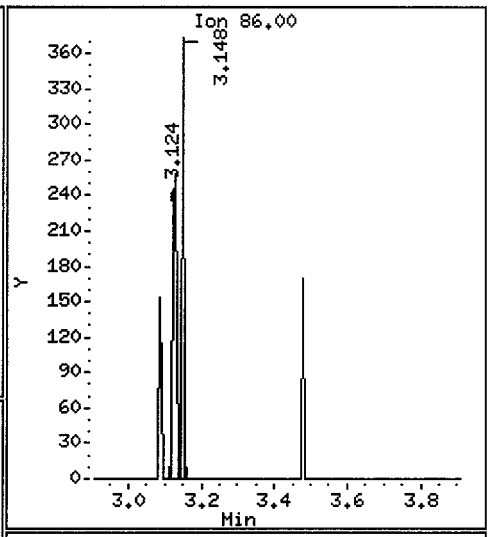
Column phase: J+W 624

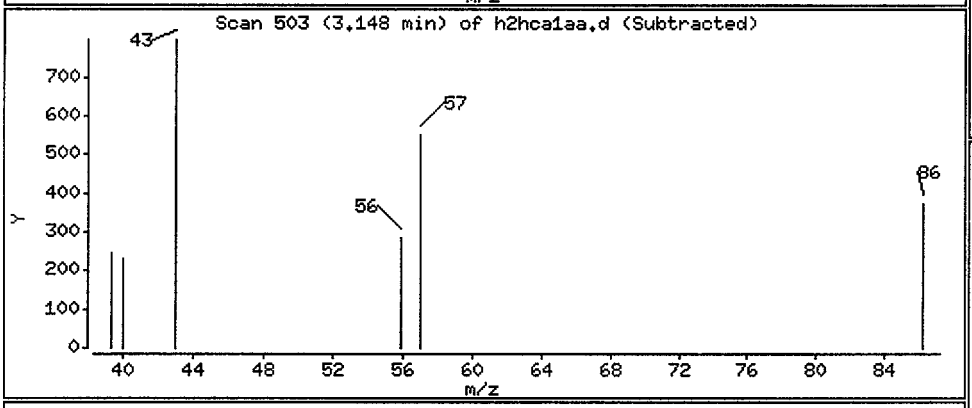
Column diameter: 0.18

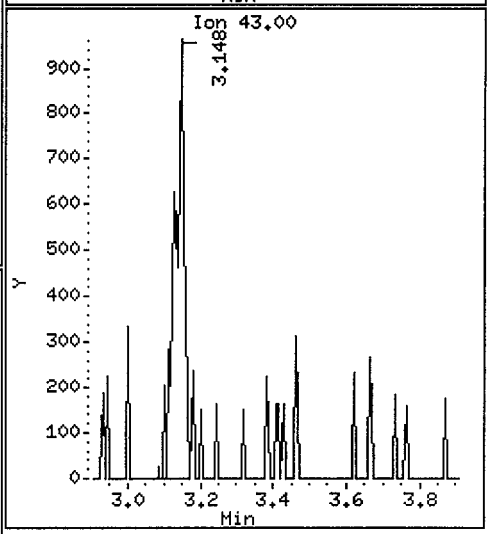
34 *Vinyl Acetate

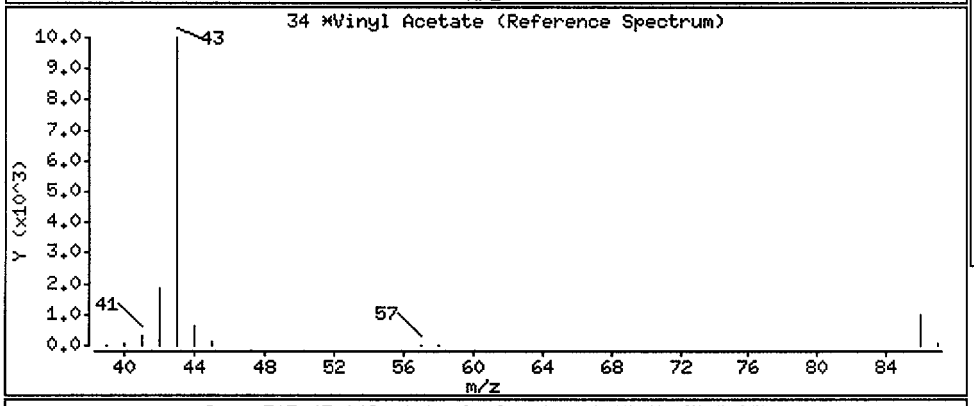
Concentration: 0.0030942 ug

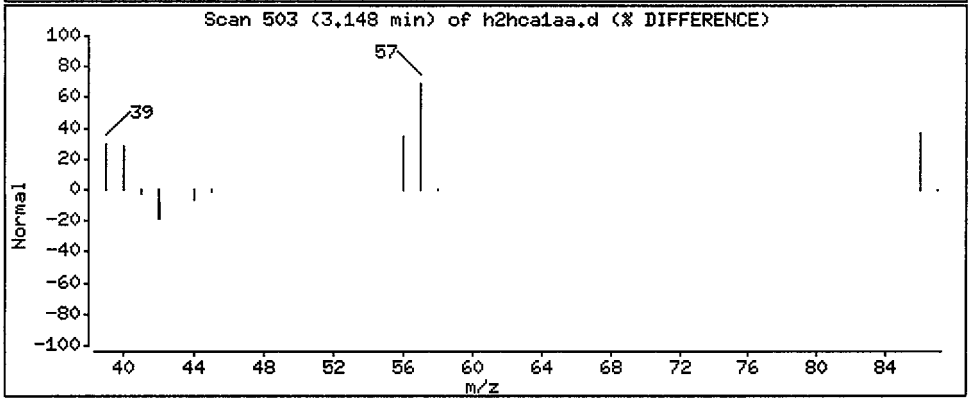












Data File: /chem/gcms/mz.i/Z040706.b/h2hca1aa.d

Date : 07-APR-2006 13:09

Client ID: G-3016-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HCA1AA,1,0,,

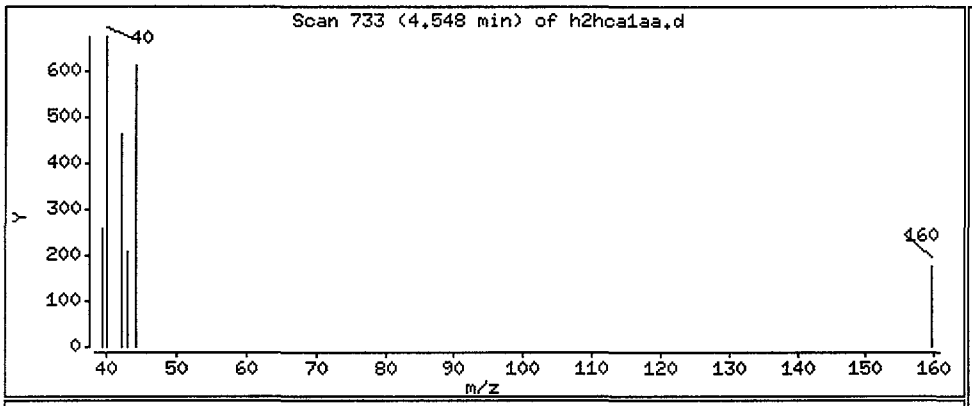
Operator: 22980

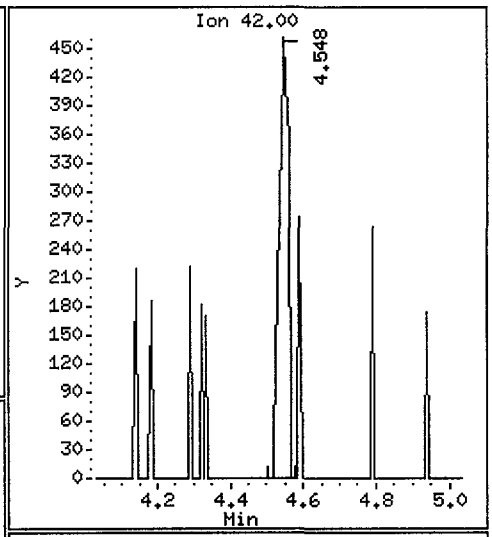
Column phase: J+W 624

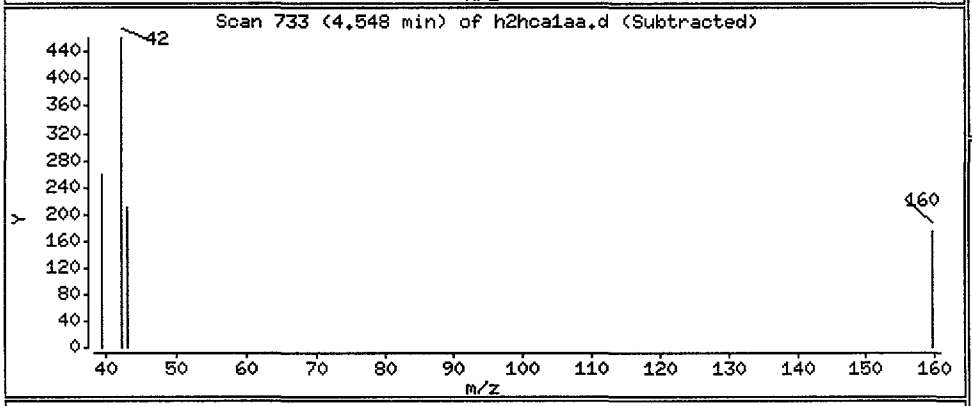
Column diameter: 0.18

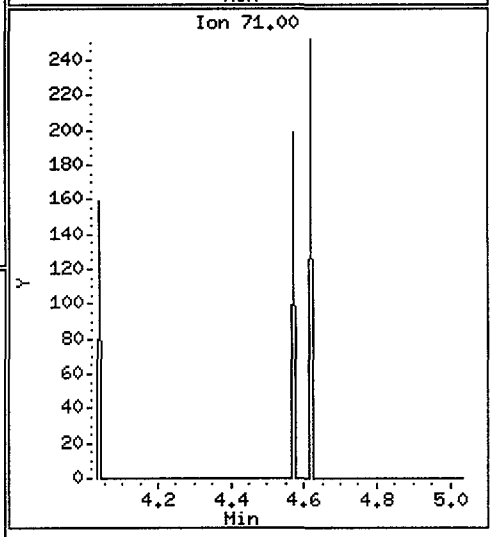
39 *THF

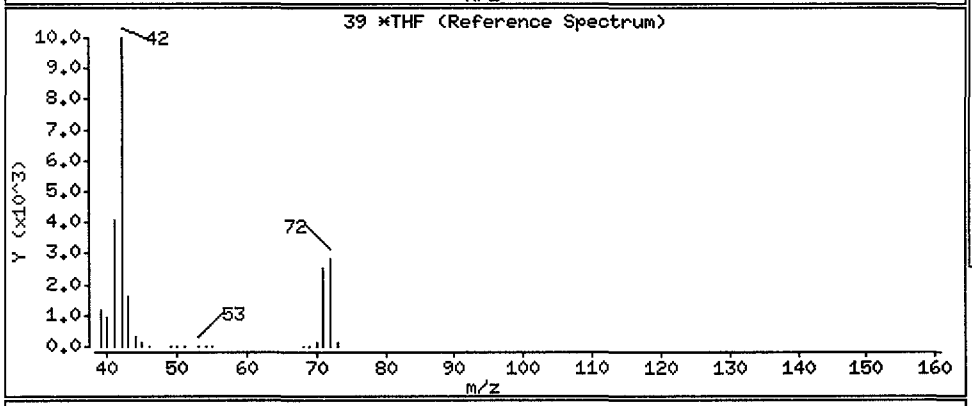
Concentration: 0.010092 ug

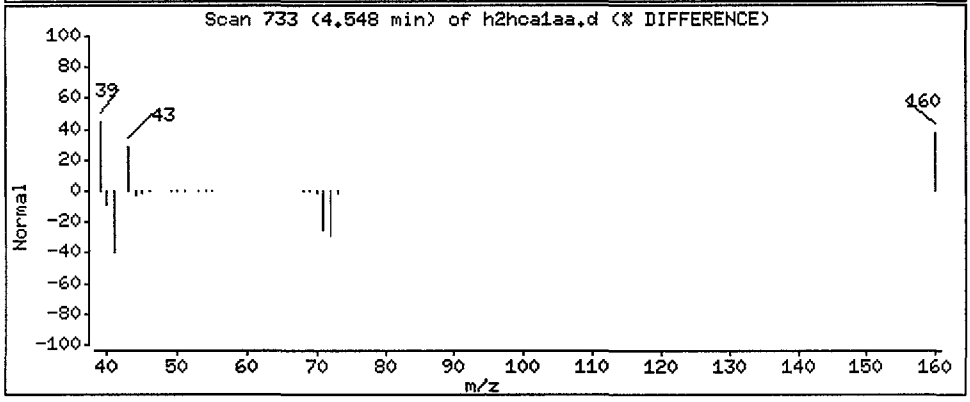












Data File: /chem/gcms/mz.i/Z040706.b/h2hca1aa.d

Date : 07-APR-2006 13:09

Client ID: G-3016-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HCA1AA,1,0,,

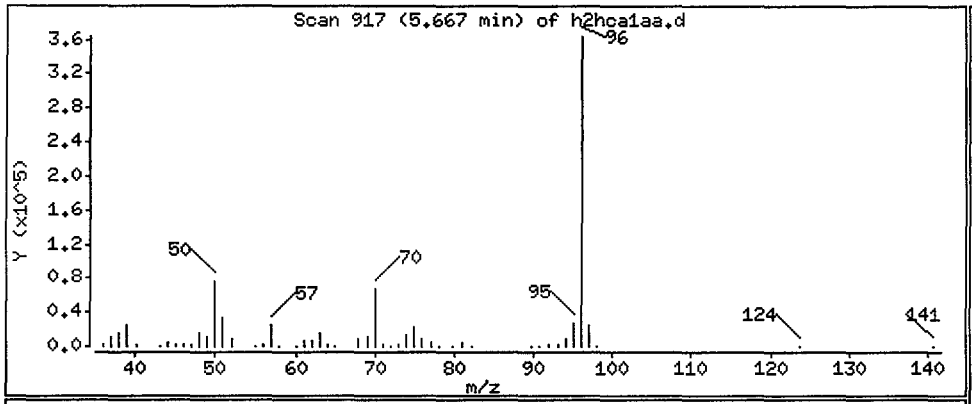
Operator: 22980

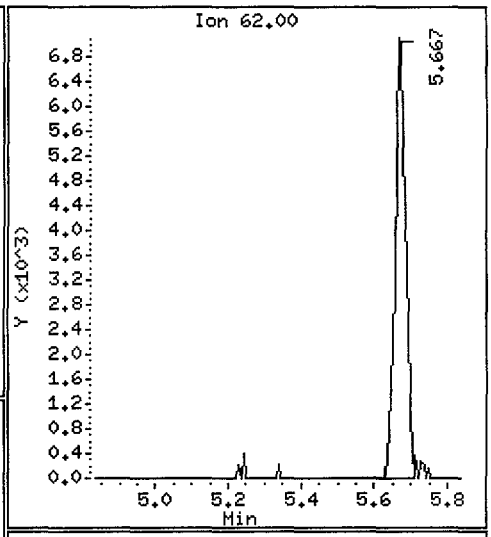
Column phase: J+W 624

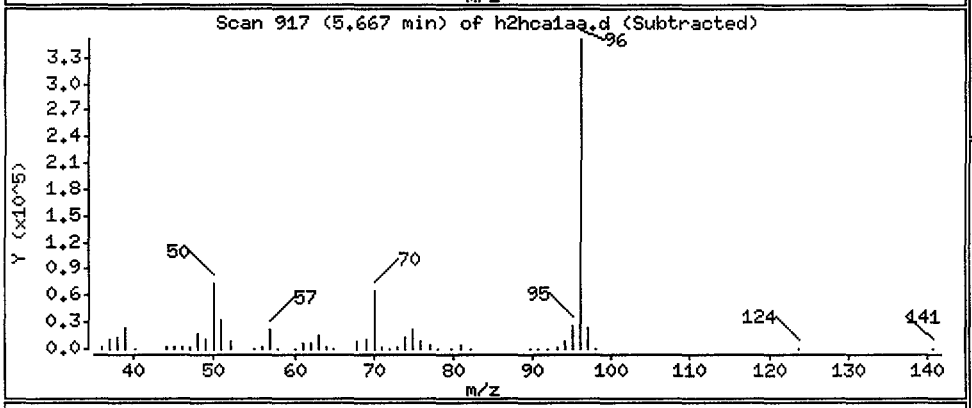
Column diameter: 0.18

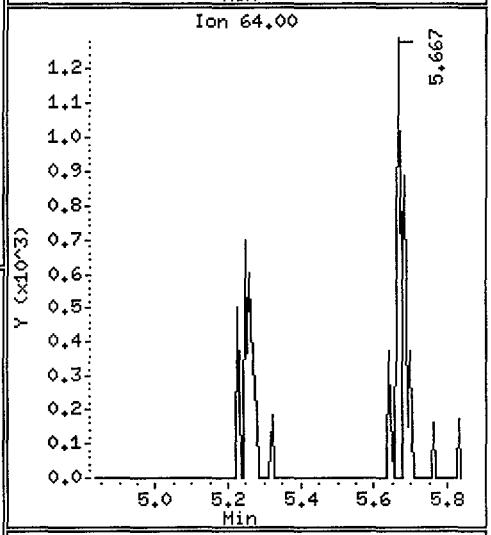
45 1,2-Dichloroethane

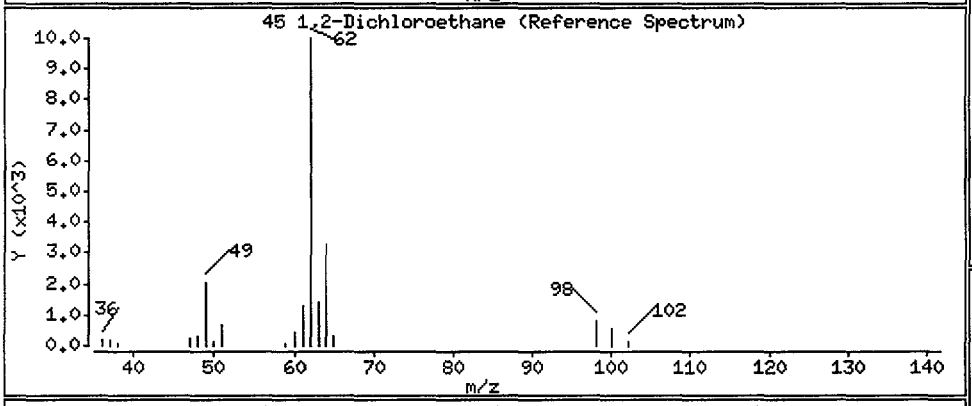
Concentration: 0.020744 ug

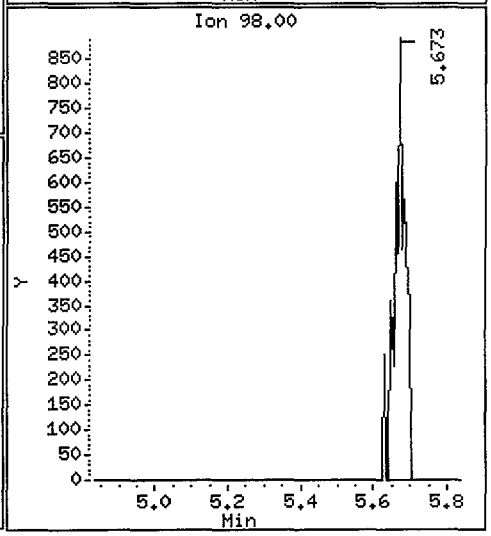


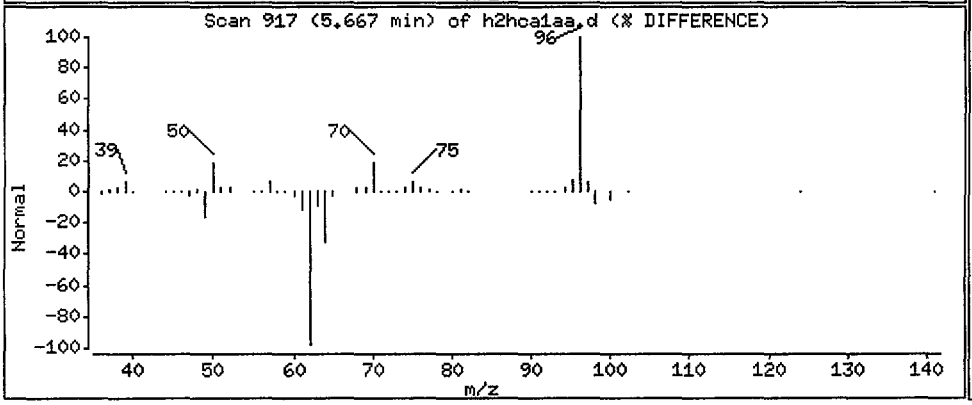












Data File: /chem/gcms/mz.i/Z040706.b/h2hca1aa.d

Date : 07-APR-2006 13:09

Client ID: G-3016-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HCA1AA,1,0,,

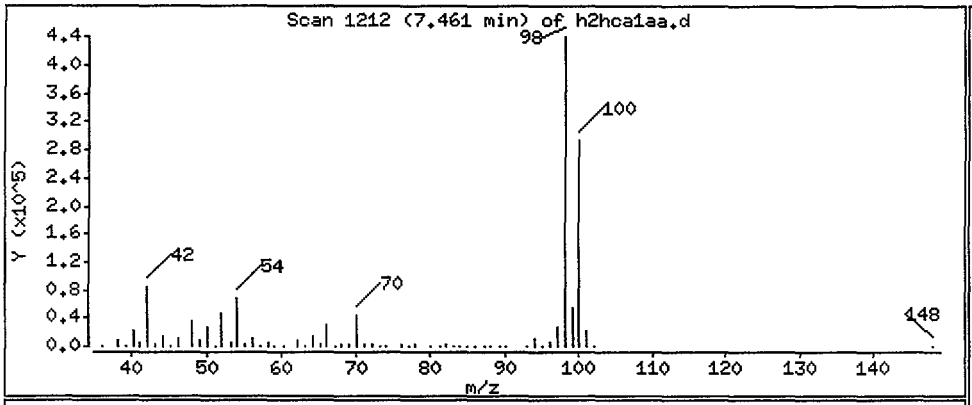
Operator: 22980

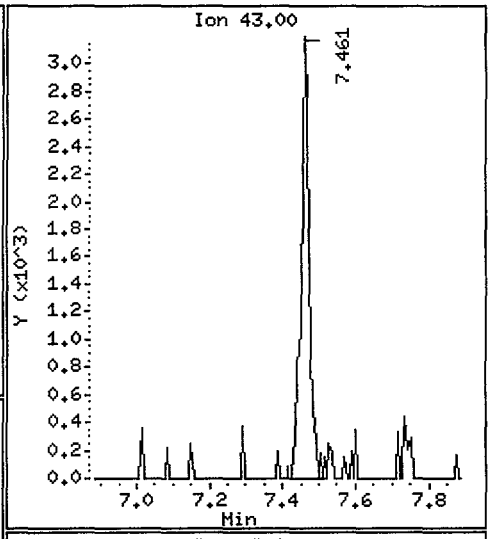
Column phase: J+W 624

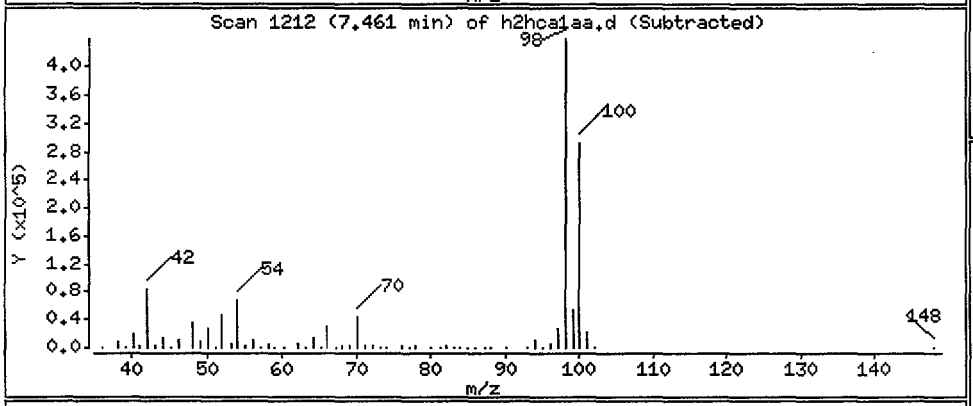
Column diameter: 0.18

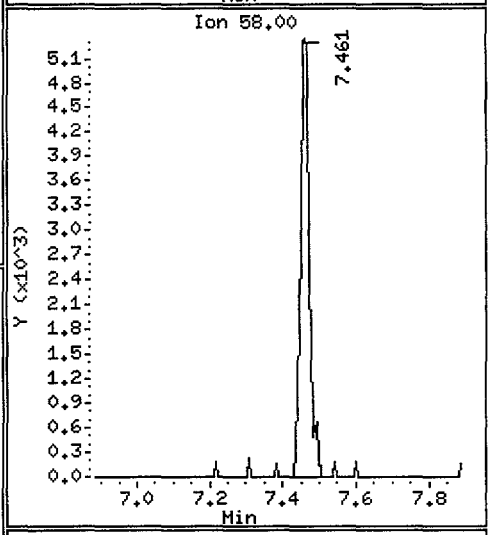
53 4-Methyl-2-pentanone

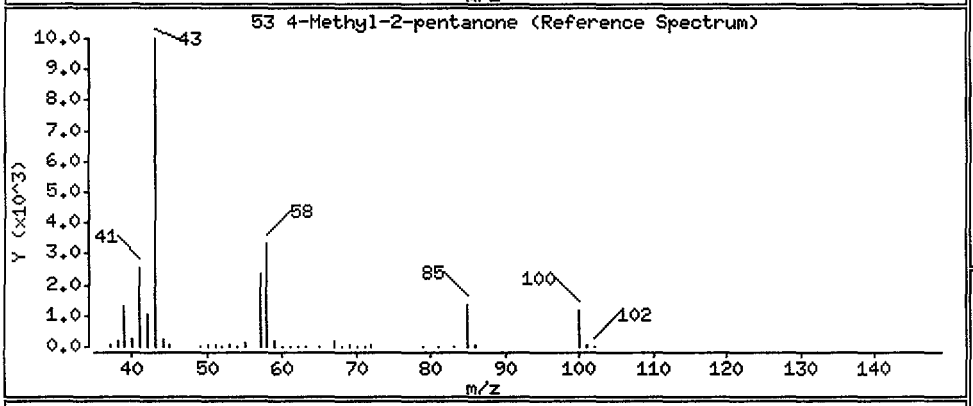
Concentration: 0.017839 ug

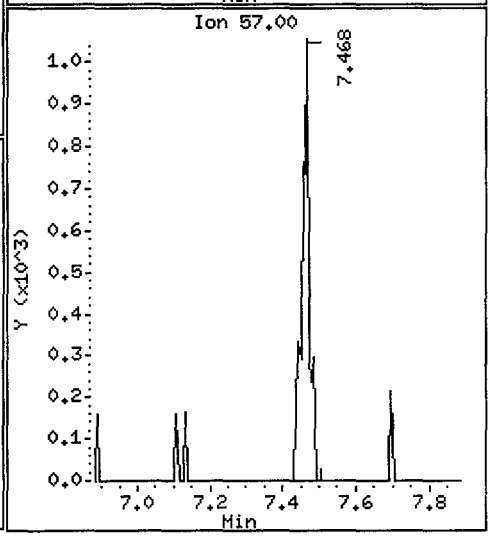


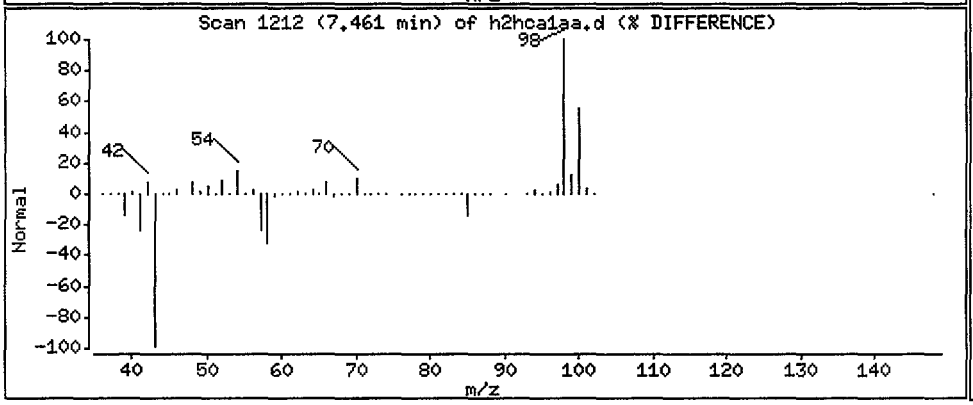












Data File: /chem/gcms/mz.i/Z040706.b/h2hca1aa.d

Date : 07-APR-2006 13:09

Client ID: G-3016-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HCA1AA,1,0,,

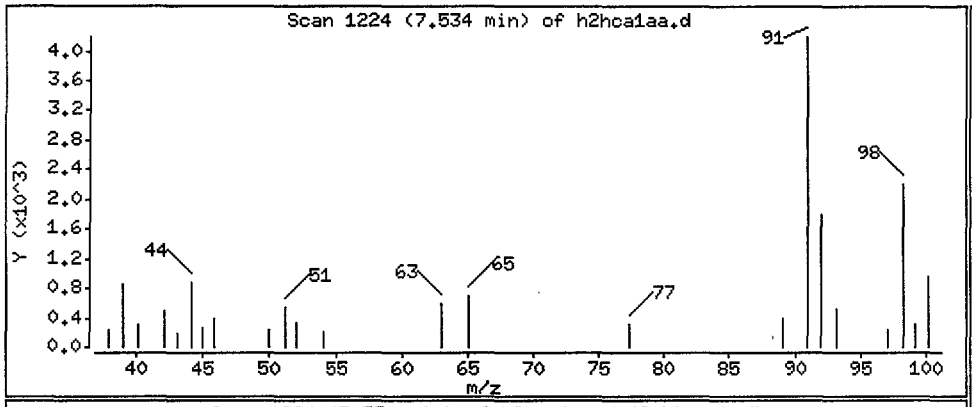
Operator: 22980

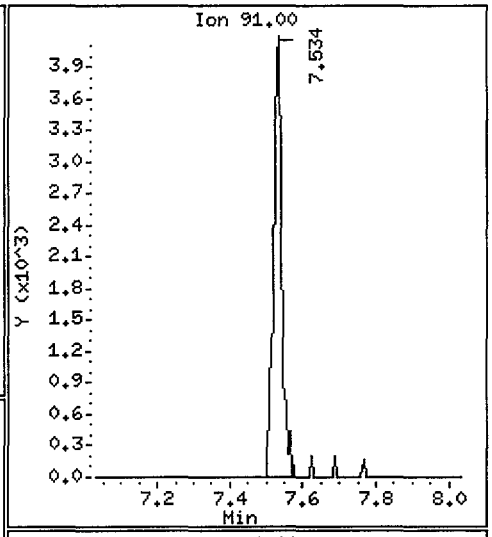
Column phase: J+W 624

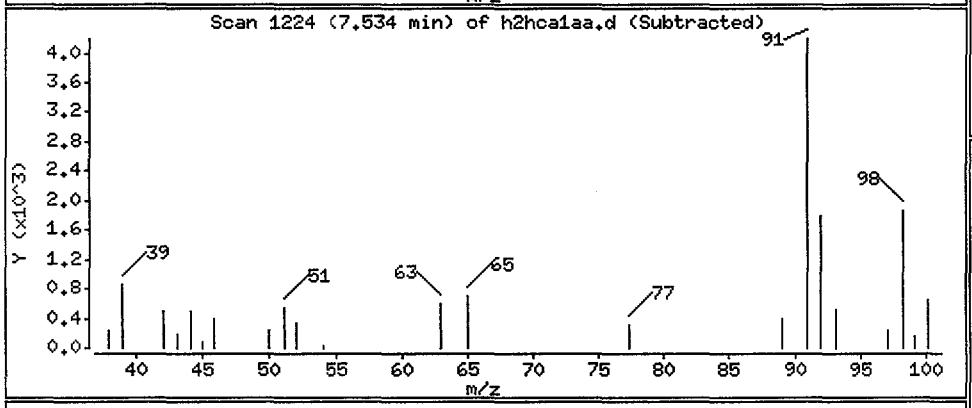
Column diameter: 0.18

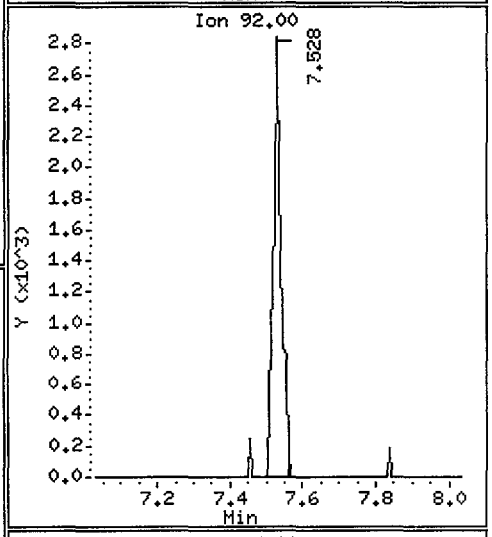
54 Toluene (ccc)

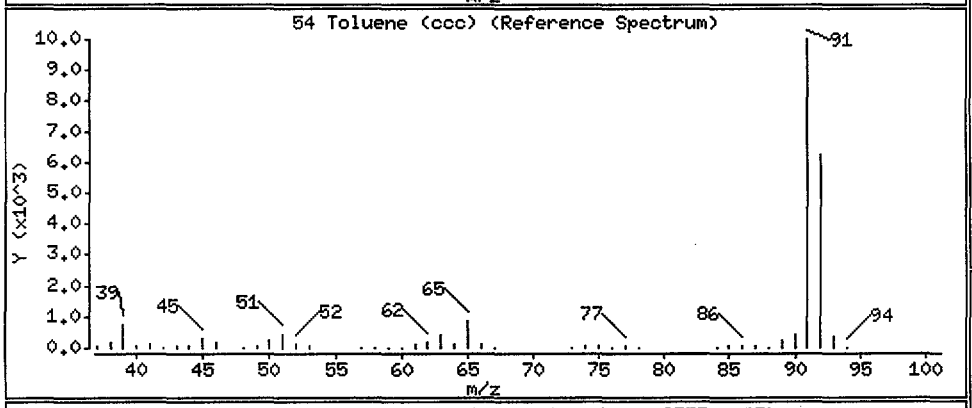
Concentration: 0.0017354 ug

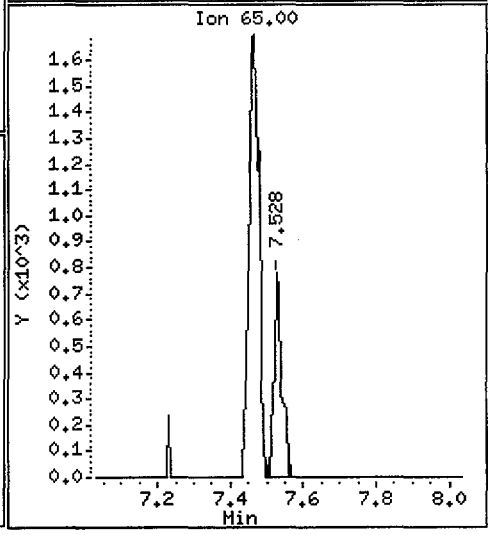


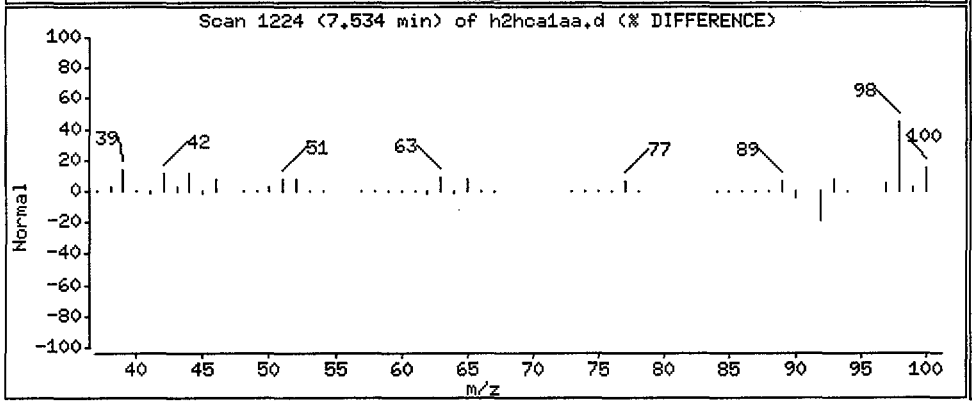












Data File: /chem/gcms/mz.i/Z040706.b/h2hca1aa.d

Date : 07-APR-2006 13:09

Client ID: G-3016-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HCA1AA,1,0,,

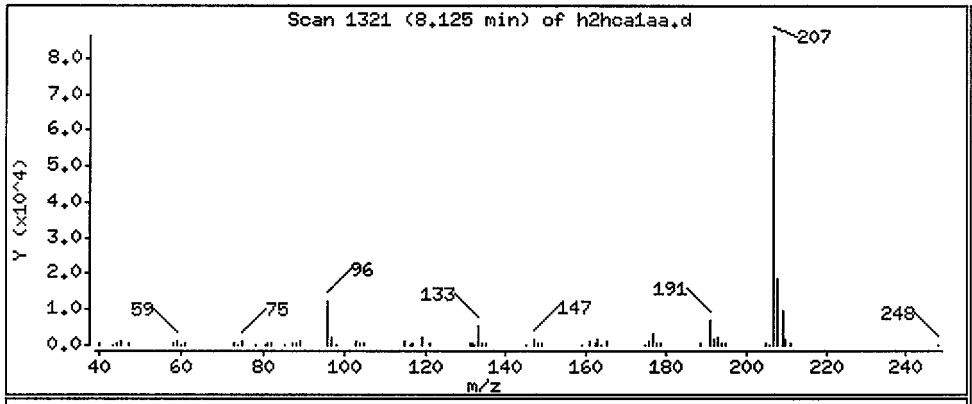
Operator: 22980

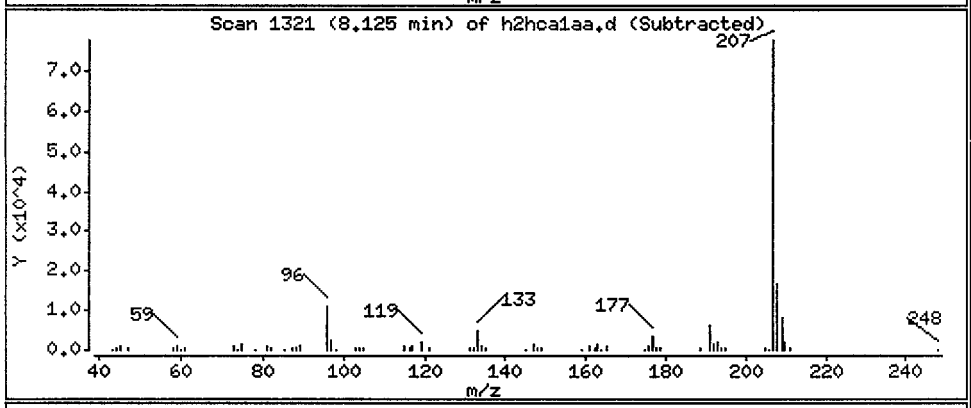
Column phase: J+W 624

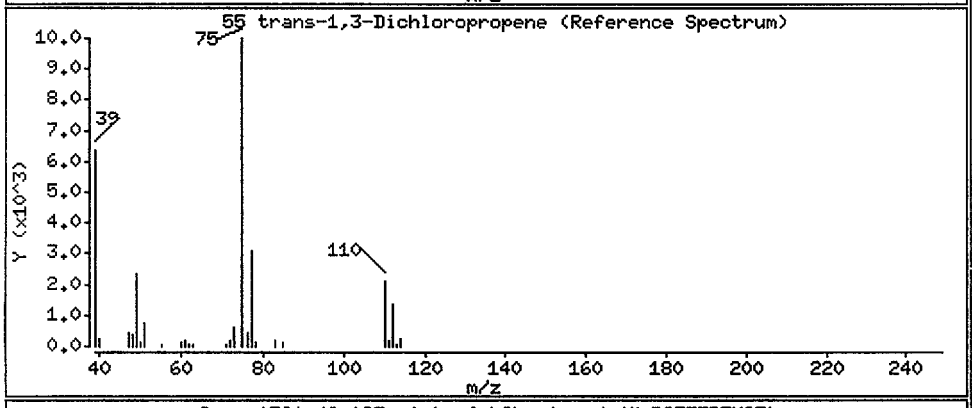
Column diameter: 0.18

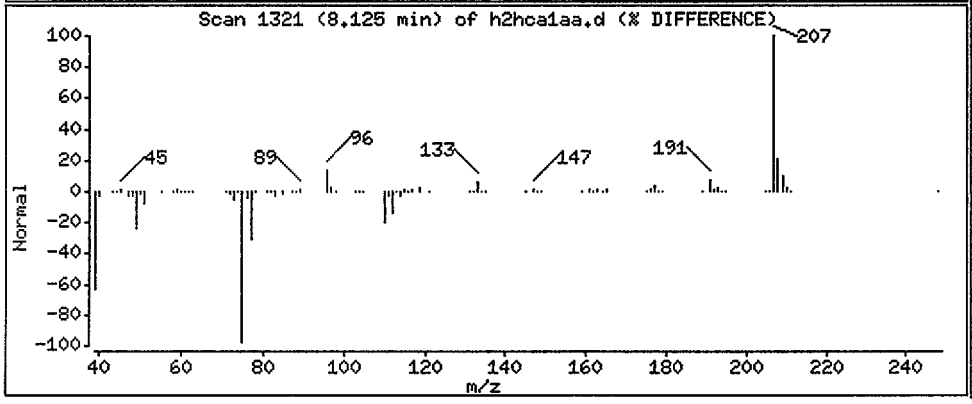
55 trans-1,3-Dichloropropene

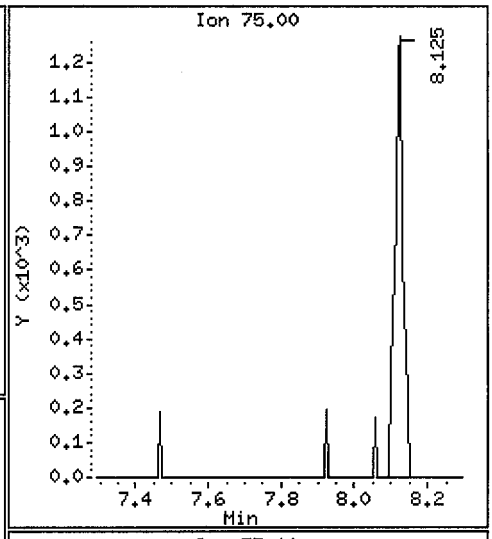
Concentration: 0.018836 ug

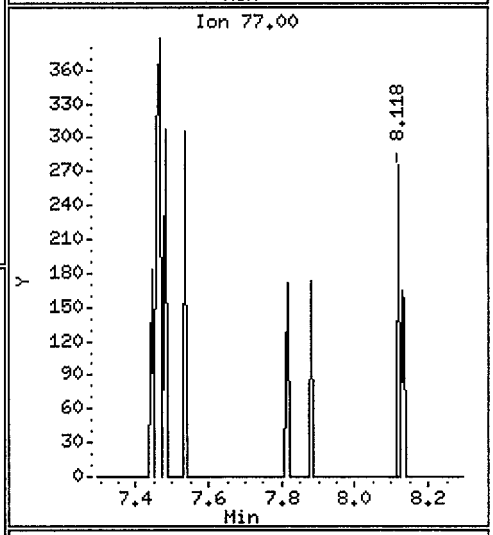


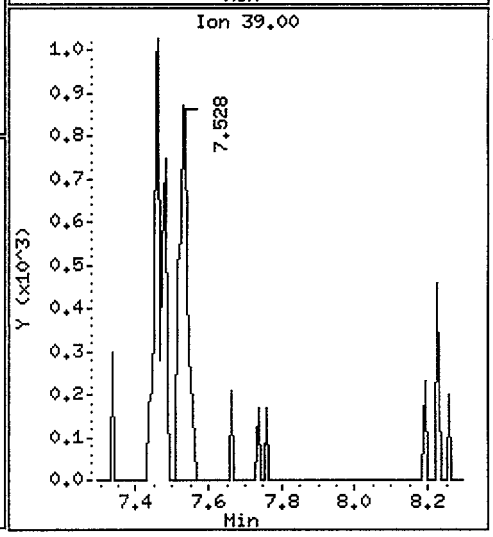












Data File: /var/chem/gcms/mz.i/Z040706.b/h2hca1aa.d
Report Date: 14-Apr-2006 17:02

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2hca1aa.d
Lab Smp Id: H2HCA1AA Client Smp ID: G-3016-R2-VOST TENA
Inj Date : 07-APR-2006 13:09
Operator : 22980 Inst ID: mz.i
Smp Info : H2HCA1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.673	918745	10.000
* 2 Chlorobenzene-d5	8.934	1270709	10.000

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide				CAS #: 124-38-9			
0.910	9305125	101.280823	2.5320	5	NIST05.1	80	1
Cyclotrisiloxane, hexamethyl-				CAS #: 541-05-9			
8.125	179400	1.41181026	0.035295	91	NIST05.1	73123	2

JW 4-14-06

Data File: /var/chem/gcms/mz.i/Z040706.b/h2hca1aa.d

Date : 07-APR-2006 13:09

Client ID: G-3016-R2-VOST TENA

Instrument: mz.i

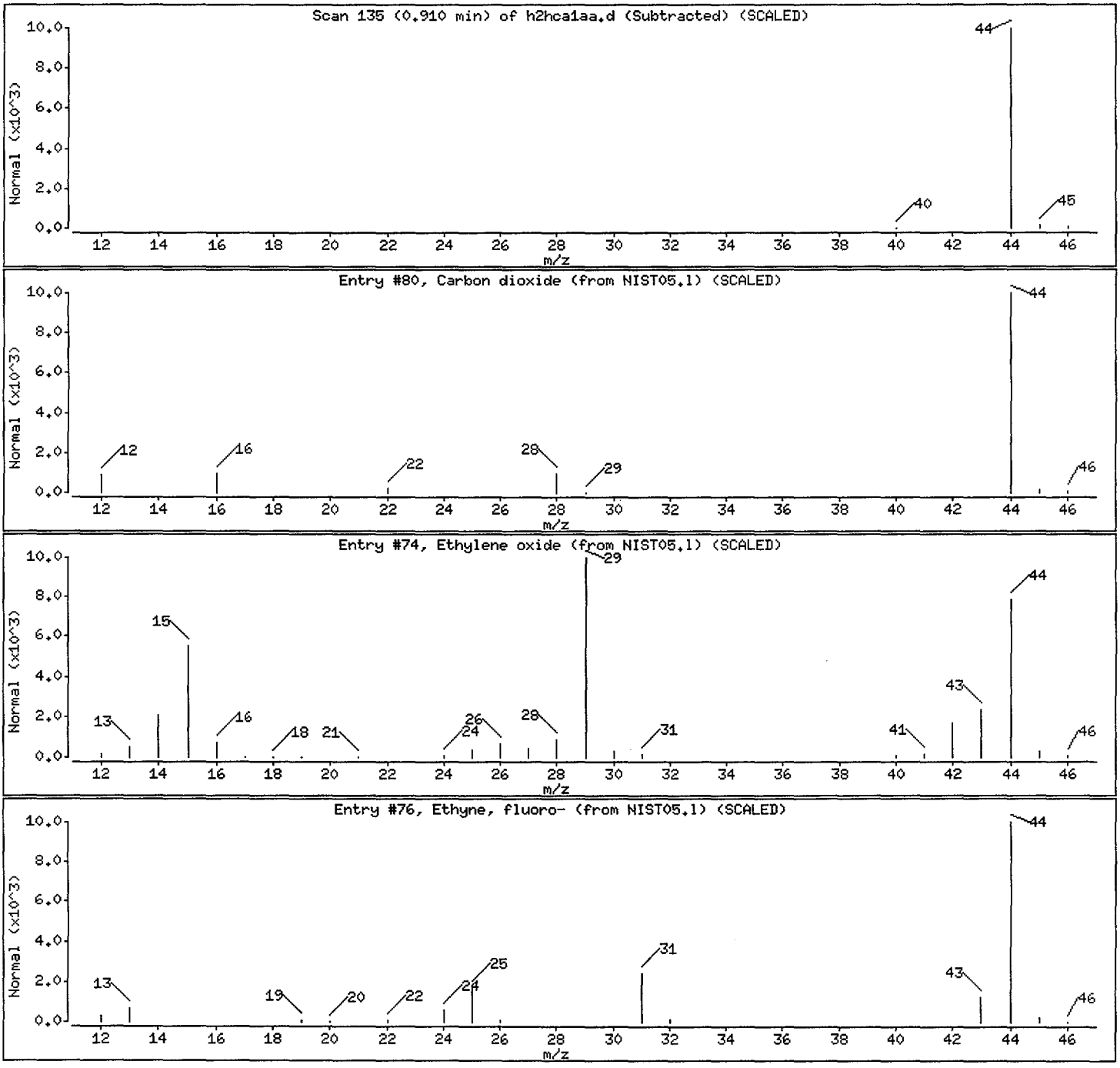
Sample Info: H2HCA1AA,1,0,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.l	80	5	CO2	44
Ethylene oxide	75-21-8	NIST05.l	74	3	C2H4O	44
Ethyne, fluoro-	2713-09-9	NIST05.l	76	3	C2HF	44



Data File: /var/chem/gcms/mz.i/Z040706.b/h2hca1aa.d

Date : 07-APR-2006 13:09

Client ID: G-3016-R2-VOST TENA

Instrument: mz.i

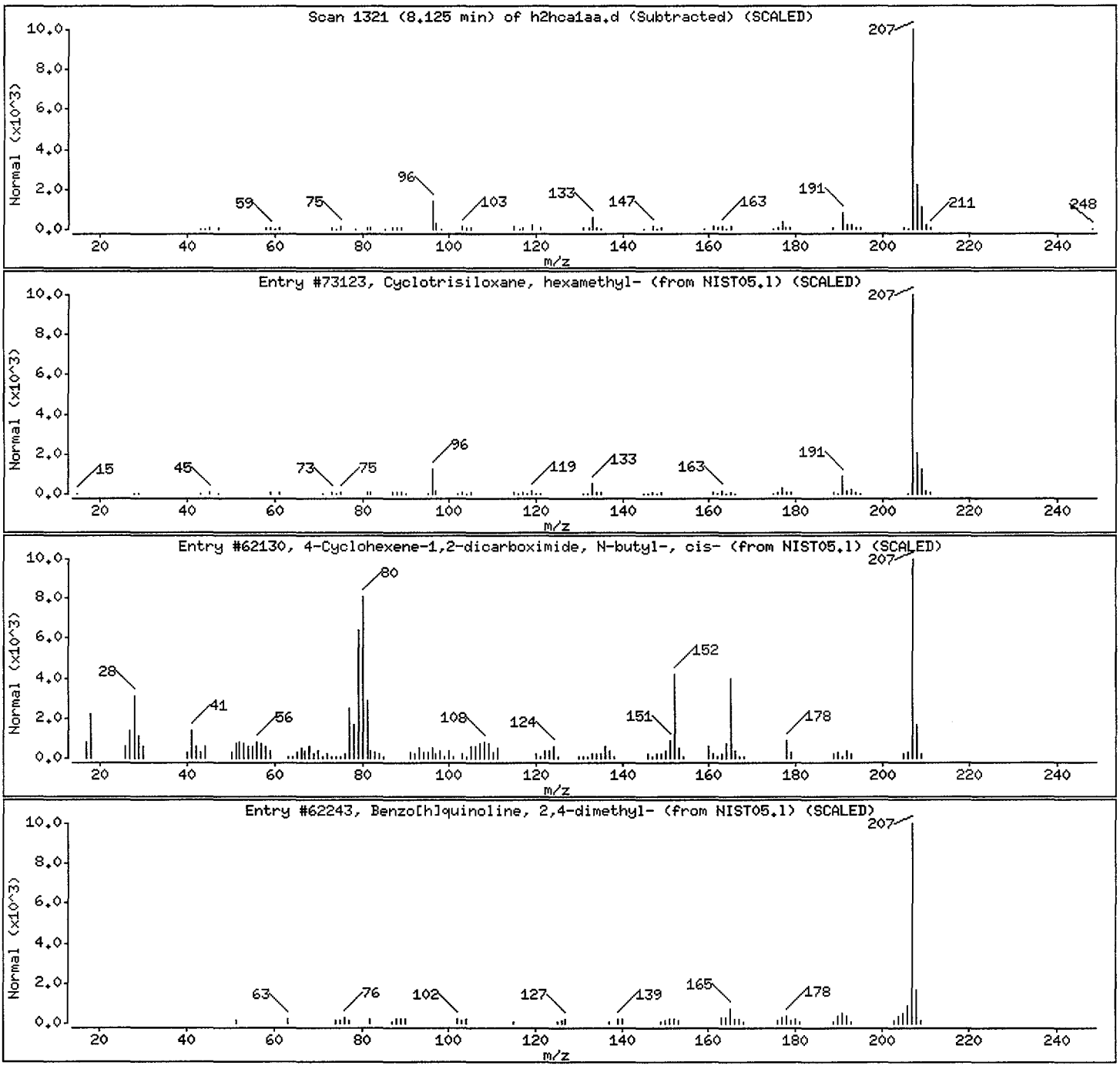
Sample Info: H2HCA1AA,1,0,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotrisiloxane, hexamethyl-	541-05-9	NIST05.l	73123	91	C6H18O3Si3	222
4-Cyclohexene-1,2-dicarboximide, N-butyl	28916-00-9	NIST05.l	62130	42	C12H17NO2	207
Benzo[h]quinoline, 2,4-dimethyl-	605-67-4	NIST05.l	62243	40	C15H13N	207



STL Knoxville - ACS

Client Sample ID: G-3089-R3-VOST PAIR #1 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-023 **Work Order #...:** H2HCD1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.16**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.010**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	**0.038**	**0.010**	**ug**	**0.0016**
Bromoform	**0.12**	**0.025**	**ug**	**0.0066**
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.011**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.0038 J**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**2.3 E**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	**0.10**	**0.025**	**ug**	**0.010**
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.027**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3089-R3-VOST PAIR #1 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-023 **Work Order #...:** H2HCD1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	**0.0018 J**	**0.010**	**ug**	**0.0013**
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.16**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.23**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.068**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.0069 J**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	**0.0091 J**	**0.020**	**ug**	**0.0034**
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	**0.010 J**	**0.030**	**ug**	**0.0048**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	73	(50 - 134)
1,2-Dichloroethane-d4	73	(50 - 134)
Toluene-d8	69	(57 - 127)
Bromofluorobenzene	49 *	(50 - 125)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

STL Knoxville - ACS

G-3089-R3-VOST PAIR #1 TENAX

GC/MS Volatiles

Lot-Sample #: H6D030169-023 **Work Order #:** H2HCD1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d
Report Date: 19-Apr-2006 07:30

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d
Lab Smp Id: H2HCD1AA Client Smp ID: G-3089-R3-VOST PAIR
Inj Date : 07-APR-2006 17:03
Operator : 22980 Inst ID: mx.i
Smp Info : H2HCD1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 19-Apr-2006 07:29 tajh Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1	Fluorobenzene	96	4.853	4.851	(1.000)	1083386	10.0000	
* 2	Chlorobenzene-d5	119	7.585	7.582	(1.000)	218210	10.0000	
* 3	1,4 Dichlorobenzene-d4	152	10.742	10.746	(1.000)	235614	10.0000	
$ 4	Dibromofluoromethane	113	4.269	4.273	(0.880)	134553	7.30480	0.18262
$ 5	1,2-Dichloroethane-d4	65	4.549	4.553	(0.937)	104723	7.29378	0.18234
$ 6	Toluene-d8	98	6.253	6.250	(0.824)	739326	6.92019	0.17300
$ 7	4-Bromofluorobenzene	95	8.875	8.872	(0.826)	137094	4.90746	0.12269(R)
M 9	Xylene (total)	106				21698	0.41787	0.010447
11	Chloromethane (spcc)	50	1.252	1.262	(0.258)	4597	0.09108	0.0022770
21	Acetone	43	2.377	2.381	(0.490)	9763	6.36281	0.15907
23	Carbon Disulfide	76	2.499	2.497	(0.515)	37449	0.45357	0.011339
26	Methylene Chloride	84	2.749	2.746	(0.566)	108417	6.47273	0.16182
33	*Vinyl Acetate	86	3.253	3.421	(0.670)	1911	1.55112	0.038778
36	2-Butanone	43	3.880	3.871	(0.799)	2131	0.89060	0.022265
38	*THF	42	4.111	4.109	(0.847)	1364	0.93023	0.023256
39	Chloroform (ccc)	83	4.136	4.139	(0.852)	44620	1.08364	0.027091
41	Carbon Tetrachloride	117	4.440	4.437	(0.915)	5969	0.15350	0.0038374
42	1,1-Dichloropropene	75	4.853	4.437	(1.000)	84174	1.96240	0.049060
43	Benzene	78	4.610	4.607	(0.950)	43866	0.39980	0.0099951
44	1,2-Dichloroethane	62	4.847	4.620	(0.999)	19345	1.04778	0.026194

Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d
Report Date: 19-Apr-2006 07:30

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
45 Trichloroethene	130	5.176	5.173	(1.066)	8143	0.27662	0.0069154
49 Bromodichloromethane	83	5.608	5.605	(1.155)	34776	1.51286	0.037822
51 cis-1,3-Dichloropropene	75	6.313	6.007	(1.301)	2103	0.07812	~~0.0019531~~
52 4-Methyl-2-pentanone	43	6.253	6.147	(1.288)	6276	1.09498	~~0.027374~~
53 Toluene (ccc)	91	6.313	6.311	(0.832)	348109	2.72346	0.068086
54 trans-1,3-Dichloropropene	75	6.313	6.506	(0.832)	2103	0.09388	~~0.0023470~~
56 1,1,2-Trichloroethane	97	6.697	6.670	(0.883)	1093	0.10834	~~0.0027086~~
57 Tetrachloroethene	164	6.818	6.816	(0.899)	248168	9.03623	0.22590
59 2-Hexanone	43	6.721	6.907	(0.886)	3421	0.80106	~~0.020026~~
60 Chlorodibromomethane	129	7.037	7.035	(0.928)	49926	3.99107	0.099777
62 Chlorobenzene (spcc)	112	7.615	7.607	(1.004)	6090129	92.8173	2.3204(A)
64 Ethylbenzene (ccc)	106	7.713	7.716	(1.017)	3309	0.07334	0.0018334
65 m&p-Xylene	106	7.834	7.838	(1.033)	19289	0.36473	0.0091182
66 o-Xylene	106	8.248	8.251	(1.087)	2409	0.05314	0.0013285
68 Bromoform (spcc)	173	8.461	8.464	(1.115)	28890	4.77839	0.11946
69 Isopropylbenzene	105	8.692	8.689	(1.146)	7202	0.04953	0.0012382 <MDL integrate L
71 Bromobenzene	156	9.075	9.067	(1.196)	1054	0.05132	0.0012829
73 1,2,3-Trichloropropane	110	9.246	9.115	(0.861)	2583	1.17464	~~0.029366~~
80 1,2,4-Trimethylbenzene	105	10.085	10.125	(0.939)	12361	0.16262	~~0.0040654~~
81 sec-Butylbenzene	105	10.085	10.435	(0.939)	12363	0.09206	~~0.0023015~~
82 1,3-Dichlorobenzene	146	10.767	10.612	(1.002)	1988	0.05008	~~0.0012521~~
84 1,4-Dichlorobenzene	146	10.767	10.788	(1.002)	1562	0.04345	0.0010863 <MDL

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

4/19/06

Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d
Report Date: 19-Apr-2006 07:30

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: h2hcd1aa.d
Lab Smp Id: H2HCD1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Calibration Date: 07-APR-2006
Calibration Time: 09:16
Client Smp ID: G-3089-R3-VOST PAIR
Level: LOW
Sample Type: AIR
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1149191	574596	2298382	1083386	-5.73
2 Chlorobenzene-d5	214194	107097	428388	218210	1.87
3 1,4 Dichlorobenze	242601	121300	485202	235614	-2.88

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	0.05
2 Chlorobenzene-d5	7.58	7.08	8.08	7.58	0.03
3 1,4 Dichlorobenze	10.75	10.25	11.25	10.74	-0.03

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

Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d
Report Date: 19-Apr-2006 07:30

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: GAS
Lab Smp Id: H2HCD1AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Client SDG: H6D030169
Fraction: VOA
Client Smp ID: G-3089-R3-VOST PAIR
Operator: 22980
SampleType: SAMPLE
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

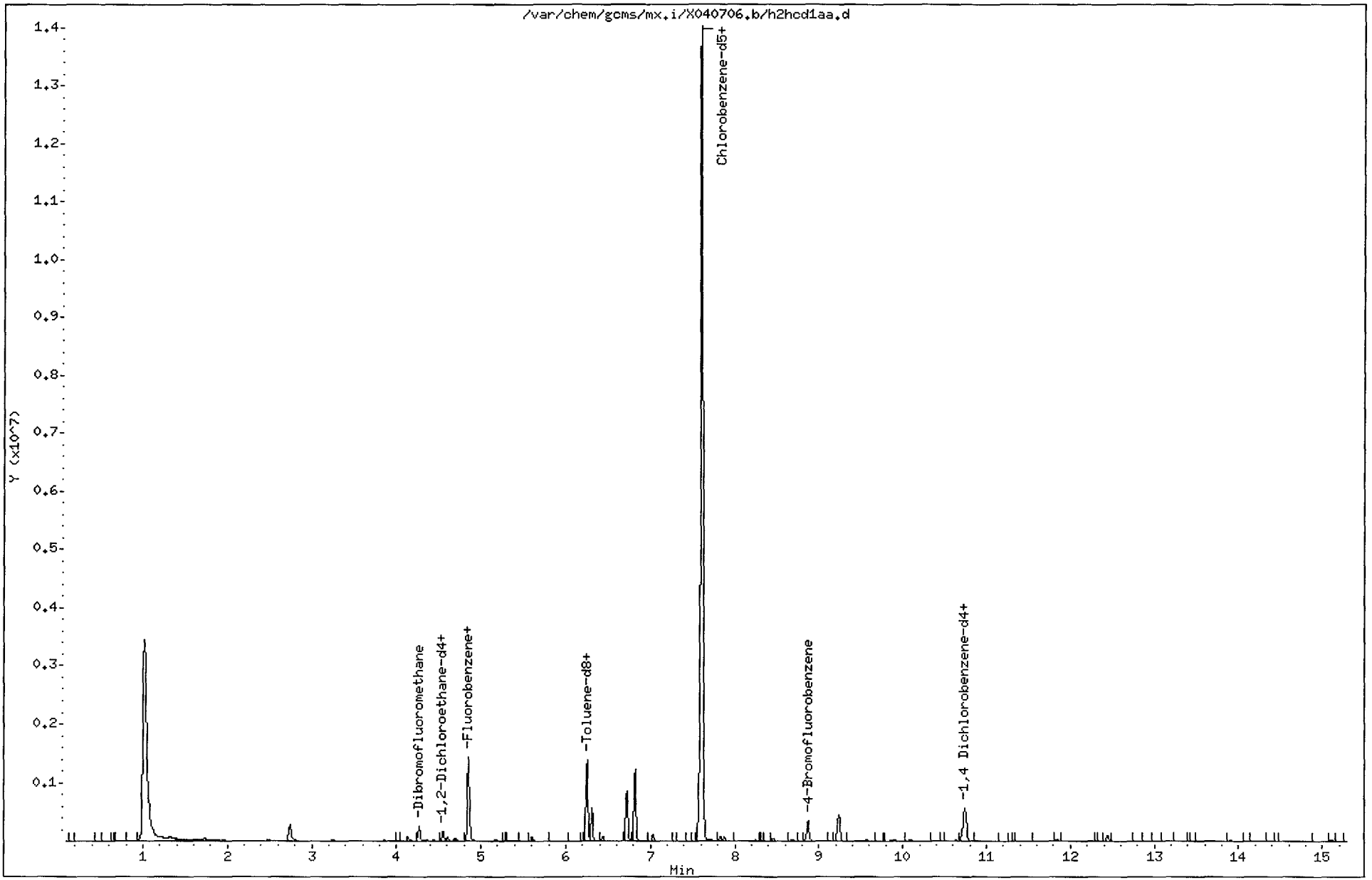
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.18262	73.05	50-150
$ 5 1,2-Dichloroethane	0.25000	0.18234	72.94	50-150
$ 6 Toluene-d8	0.25000	0.17300	69.20	50-150
$ 7 4-Bromofluorobenze	0.25000	0.12269	49.07*	50-150

Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d
Date : 07-APR-2006 17:03
Client ID: G-3089-R3-VOST PAIR
Sample Info: H2HCD1AA,1,0,,,

Instrument: mx.i

Operator: 22980
Column diameter: 0.18

Column phase: J+W 624



Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

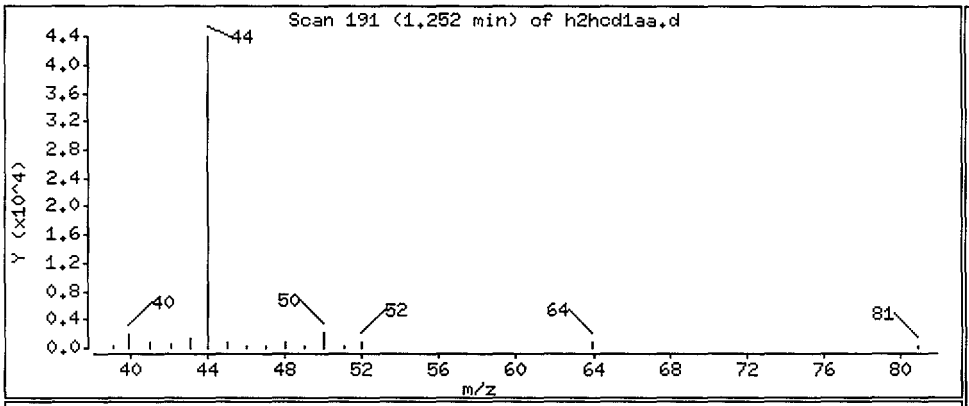
Operator: 22980

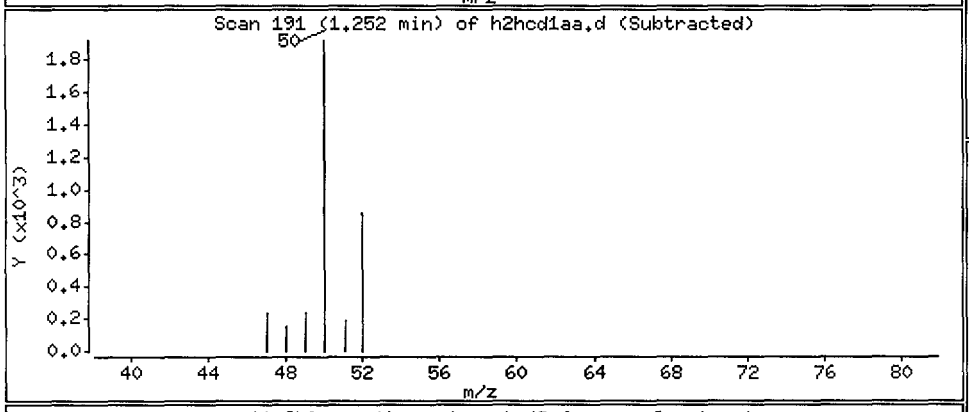
Column phase: J+W 624

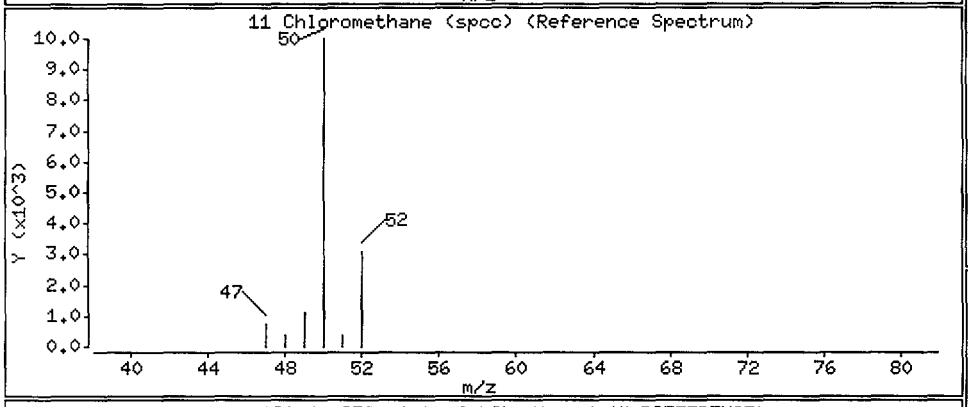
Column diameter: 0.18

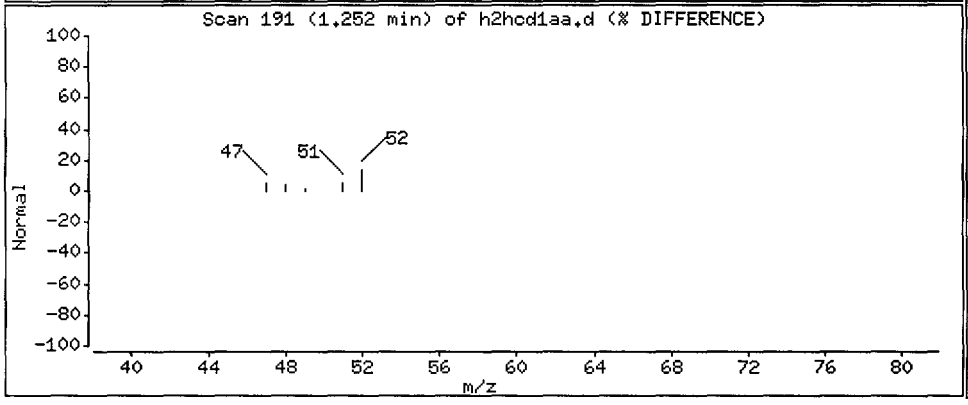
11 Chloromethane (spcc)

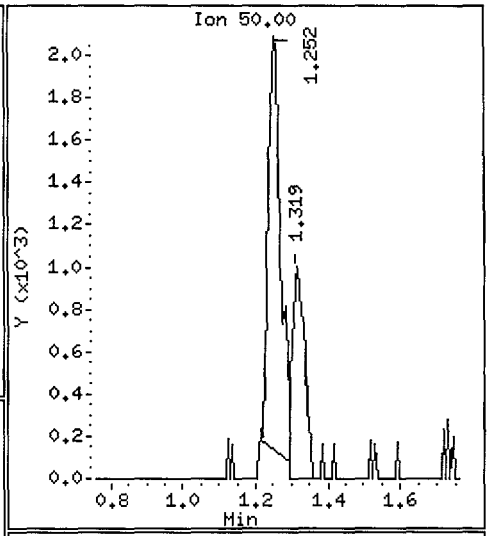
Concentration: 0.0022770 ug

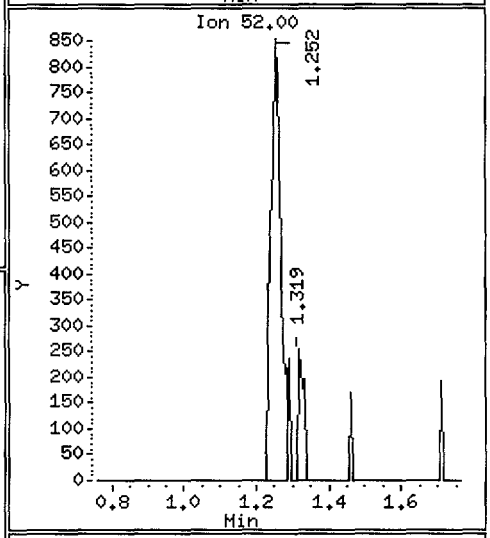


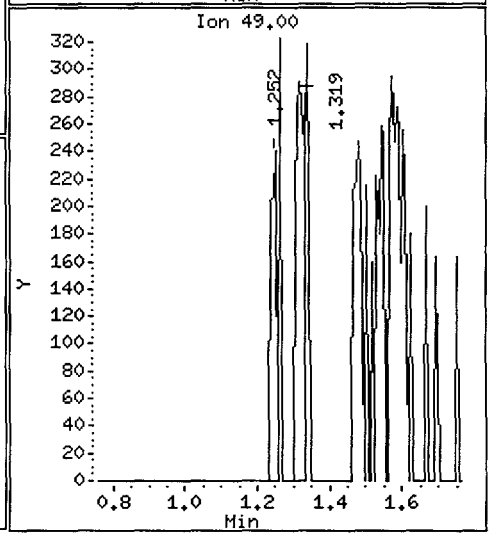












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

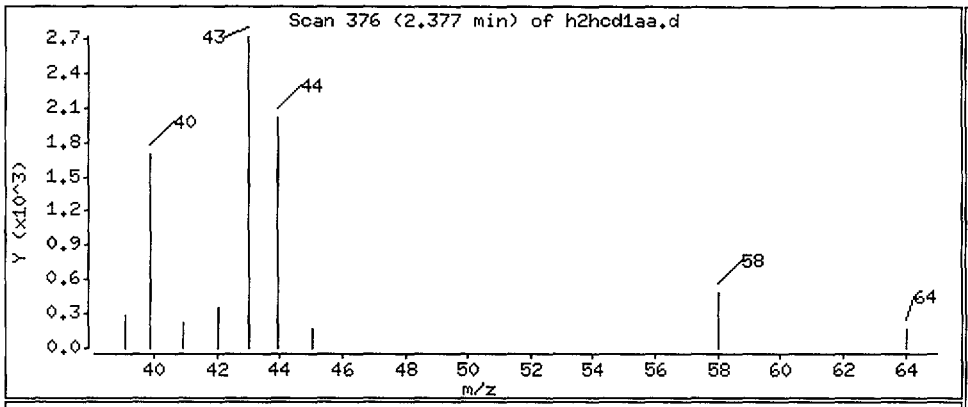
Operator: 22980

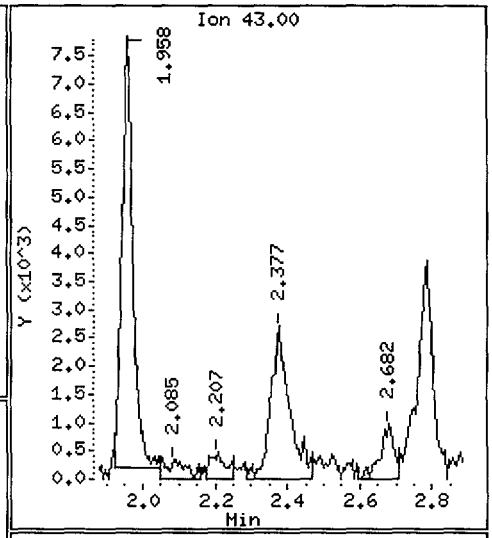
Column phase: J+W 624

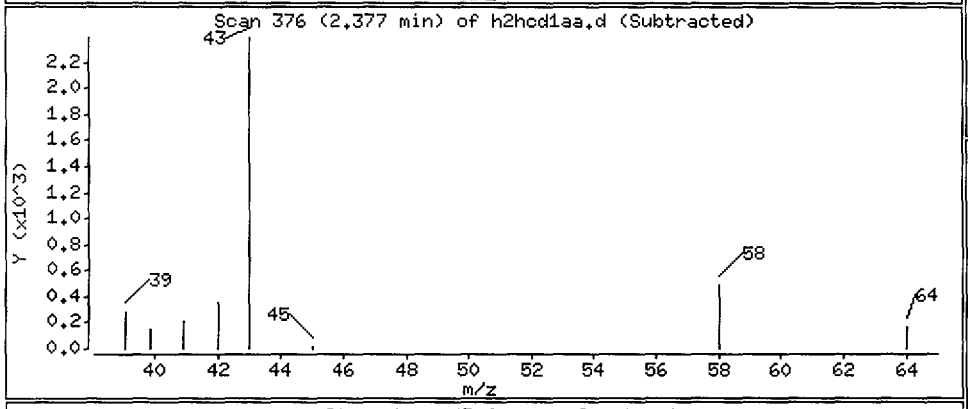
Column diameter: 0.18

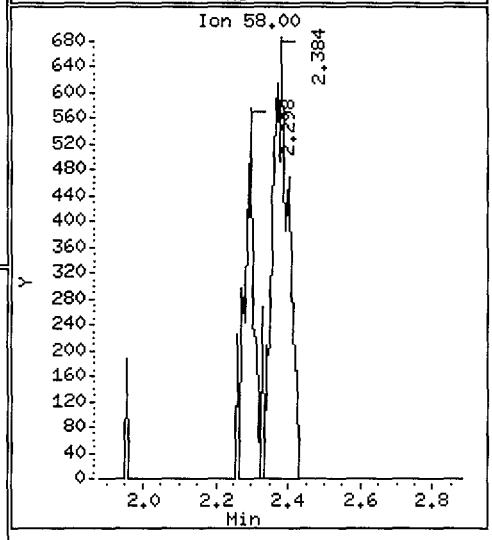
21 Acetone

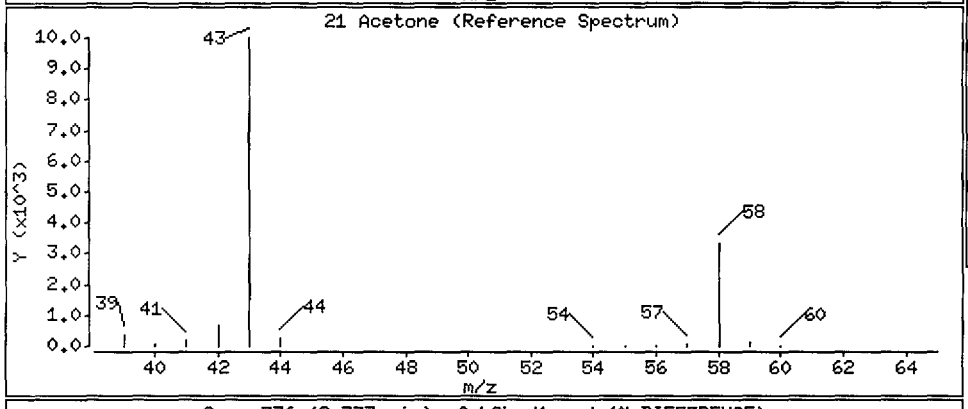
Concentration: 0.15907 ug

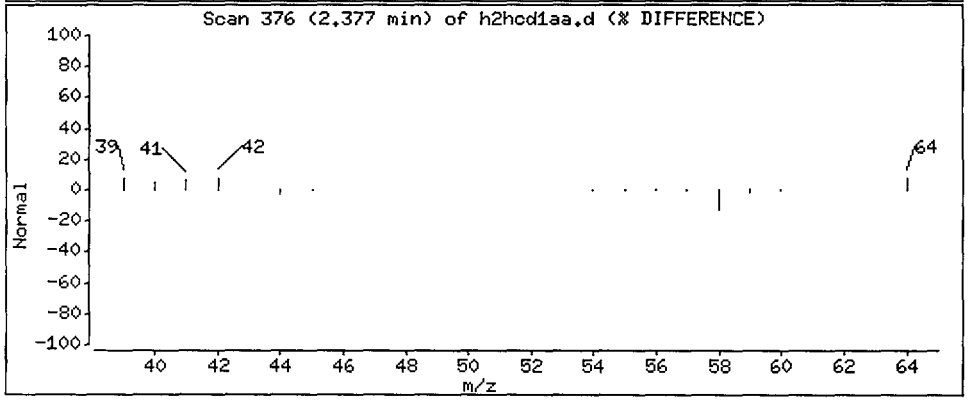












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

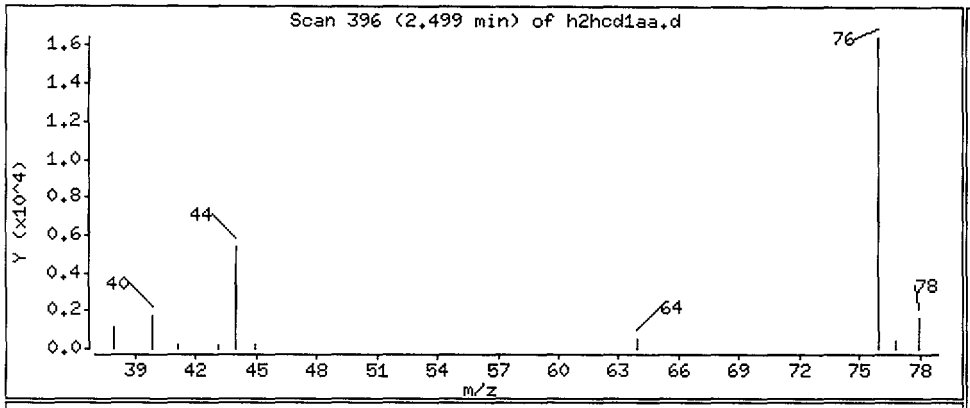
Operator: 22980

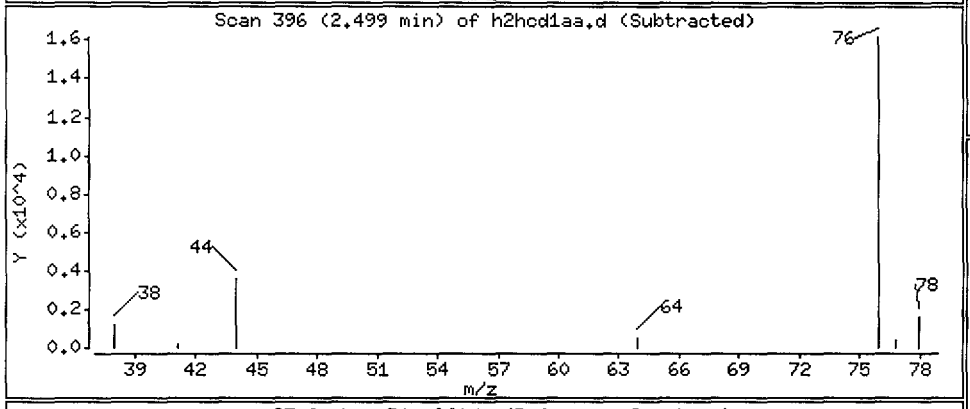
Column phase: J+W 624

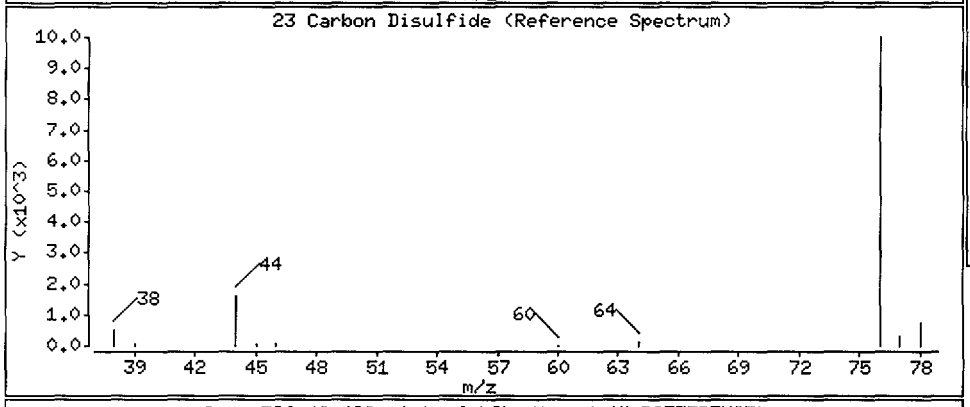
Column diameter: 0.18

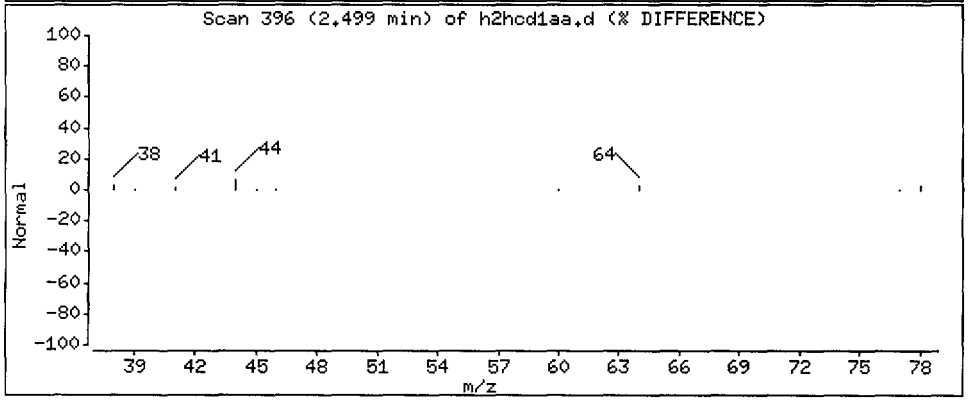
23 Carbon Disulfide

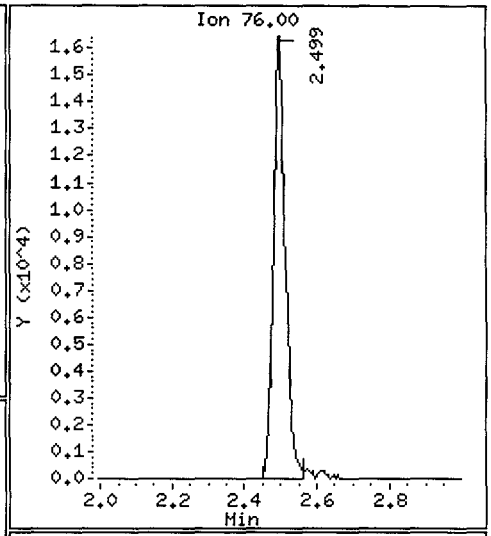
Concentration: 0.011339 ug

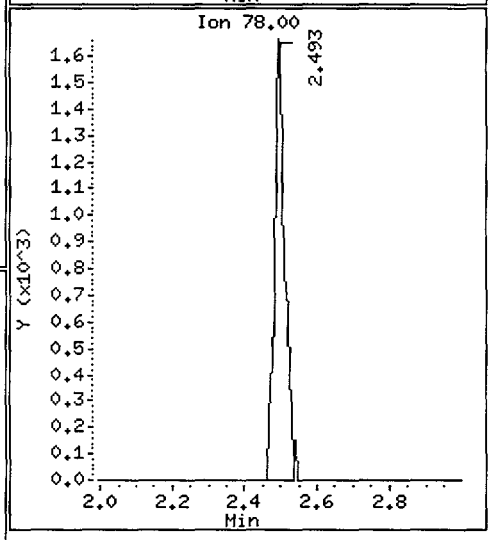












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

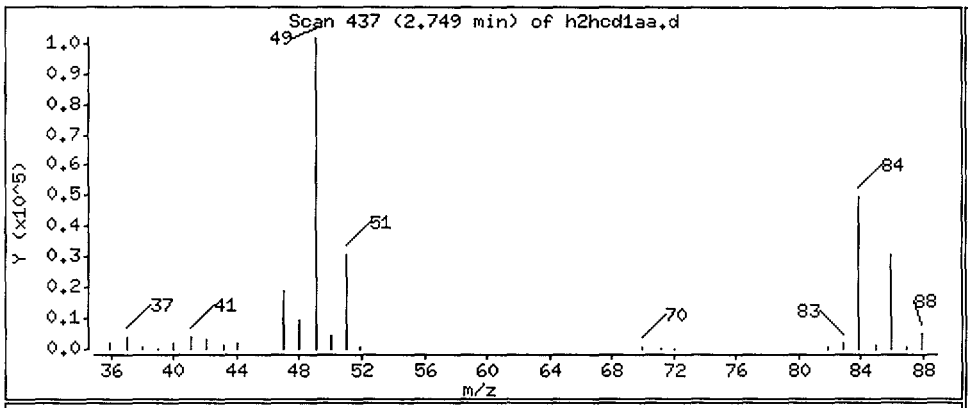
Operator: 22980

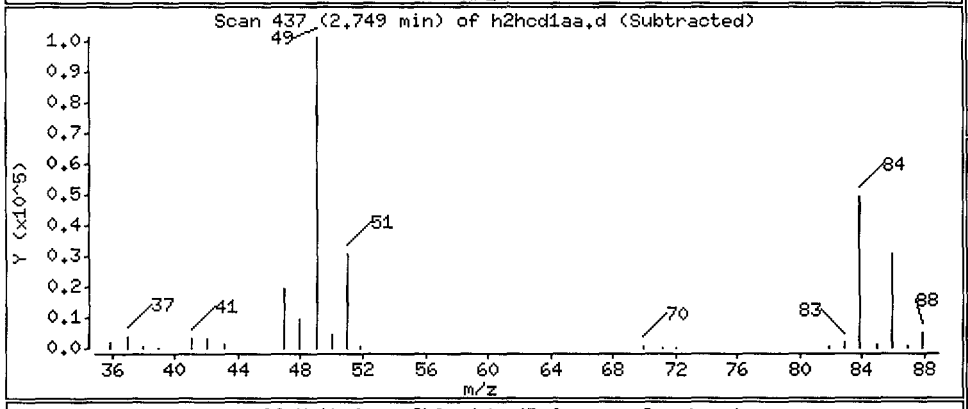
Column phase: J+W 624

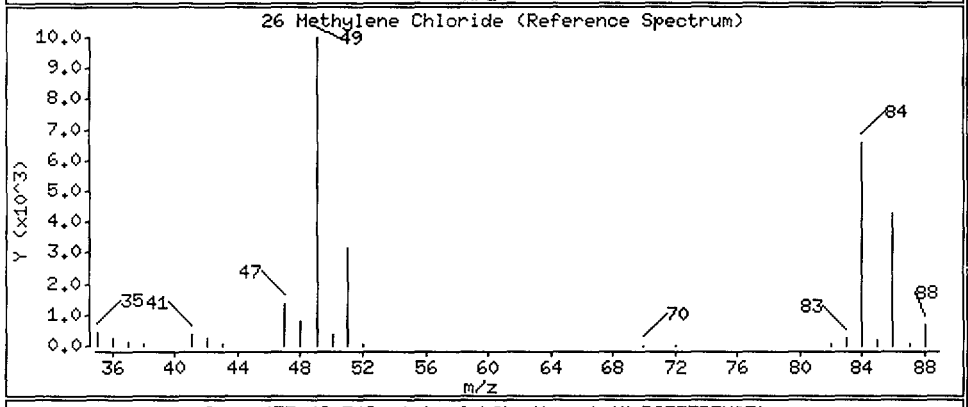
Column diameter: 0.18

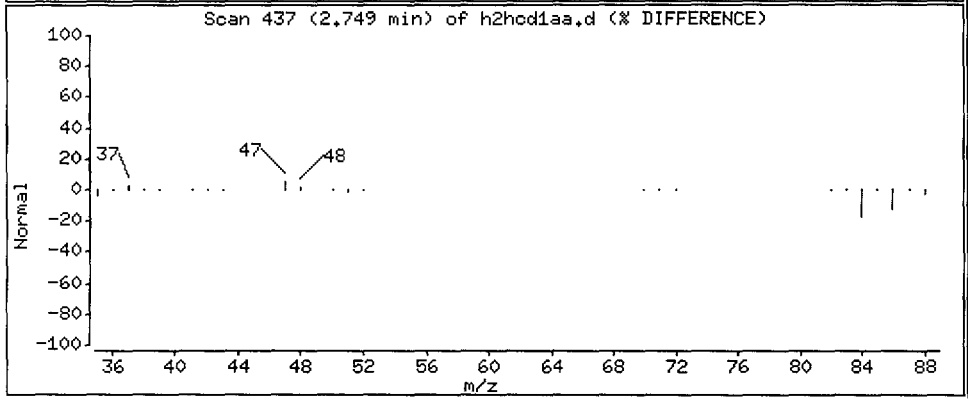
26 Methylene Chloride

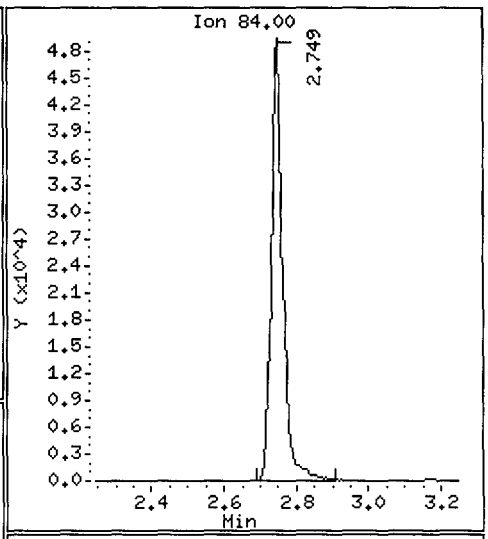
Concentration: 0.16182 ug

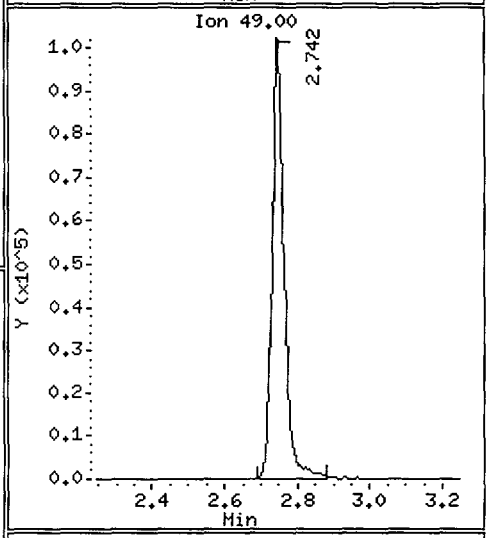


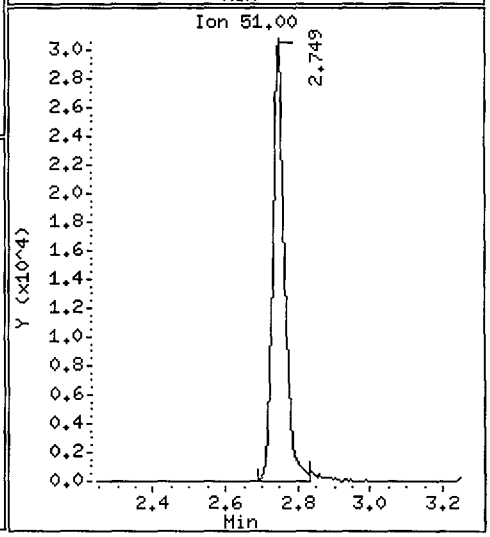












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

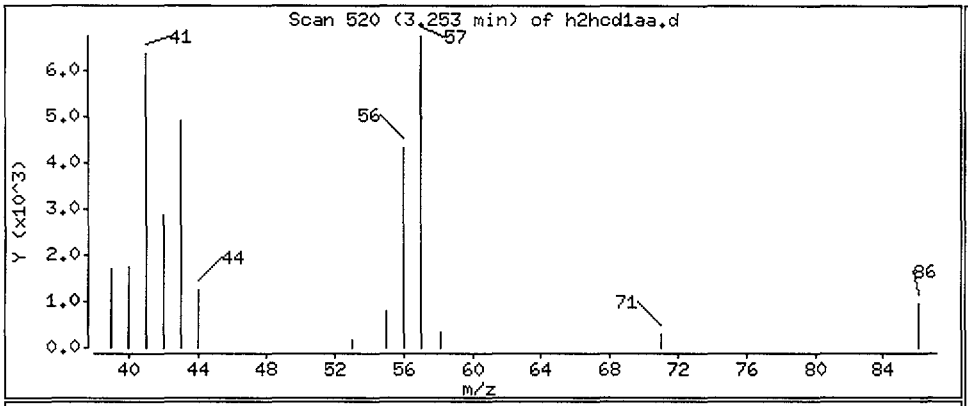
Operator: 22980

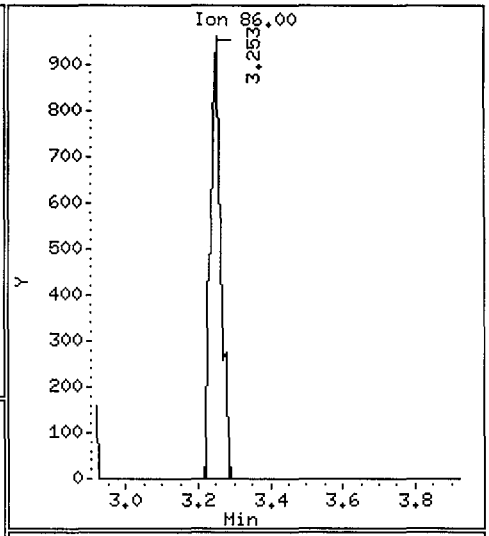
Column phase: J+W 624

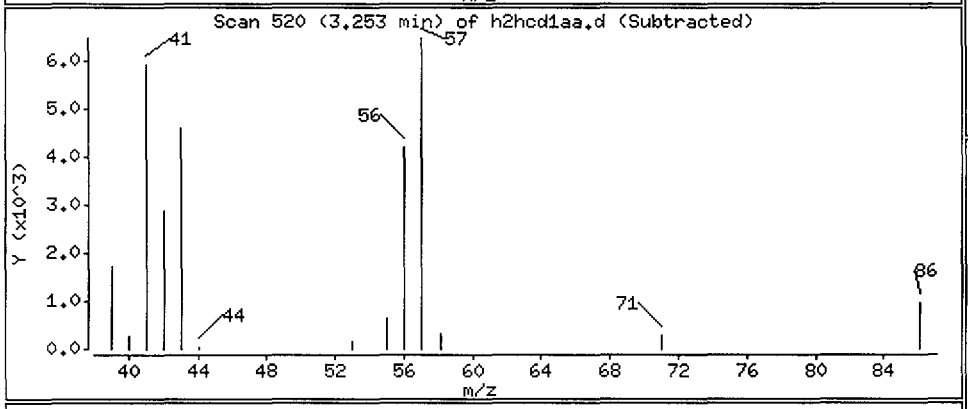
Column diameter: 0.18

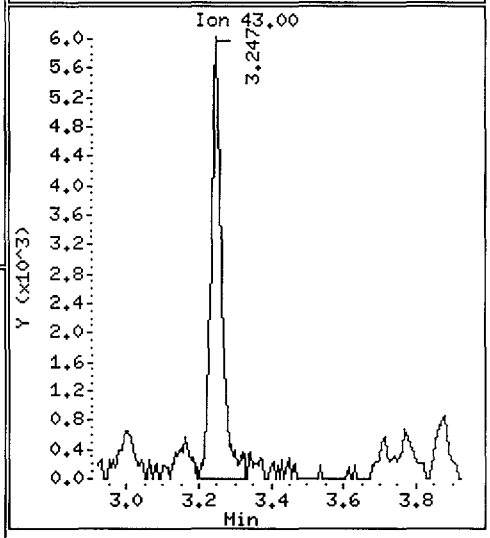
33 *Vinyl Acetate

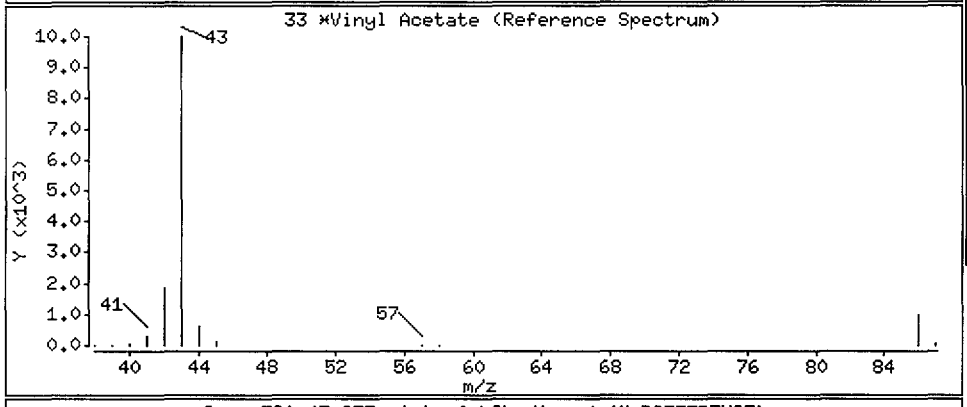
Concentration: 0.038778 ug

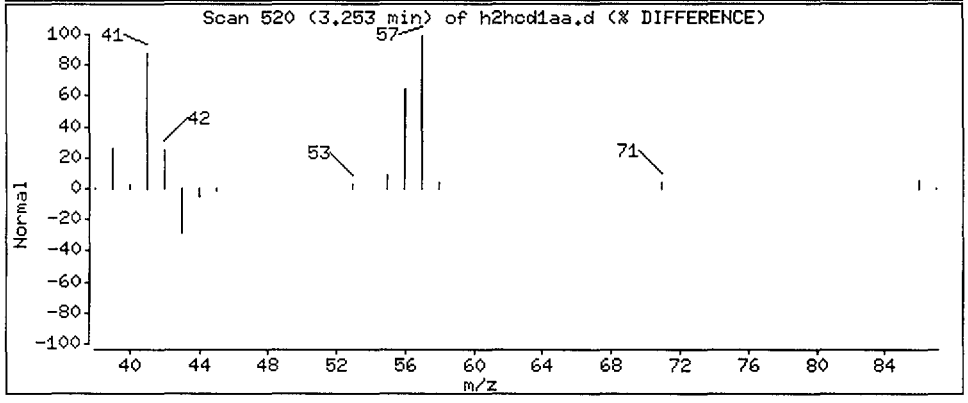












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

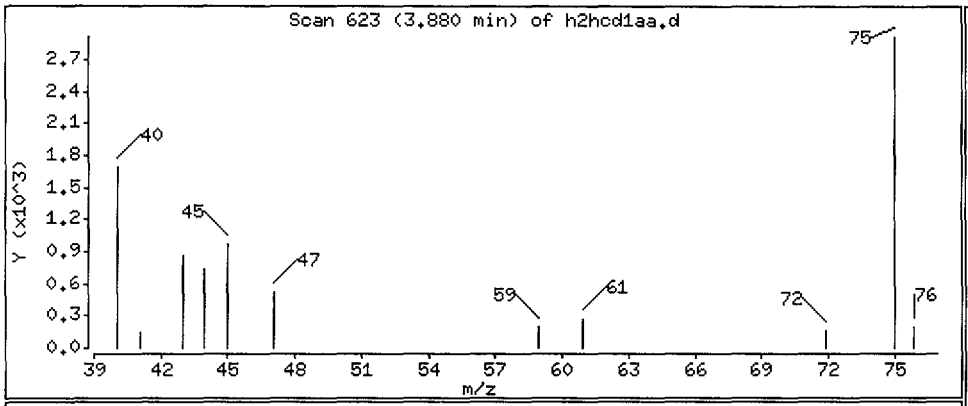
Operator: 22980

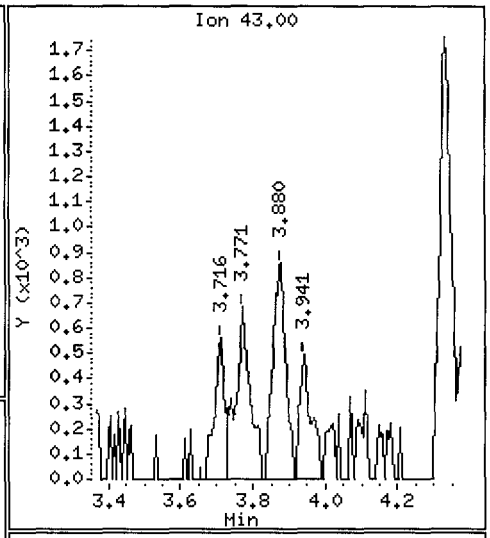
Column phase: J+W 624

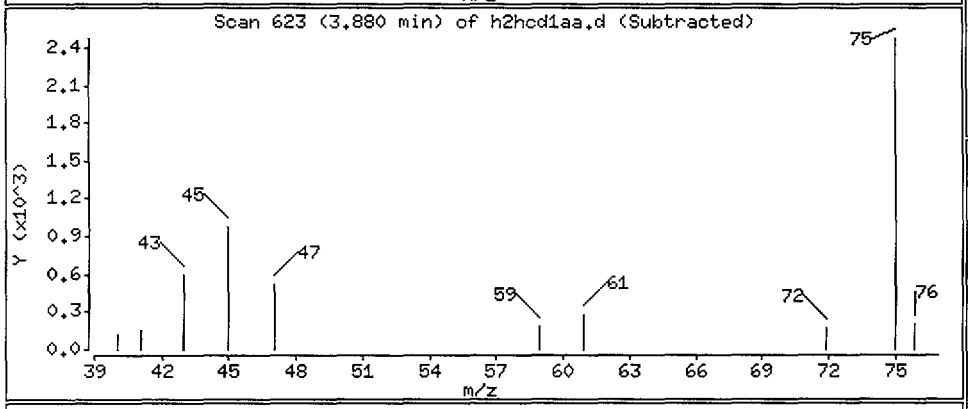
Column diameter: 0.18

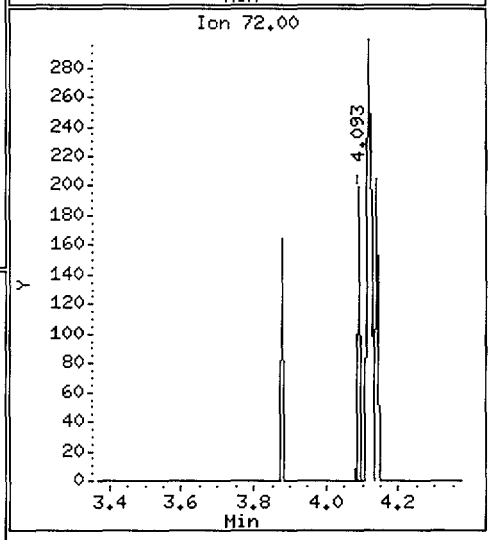
36 2-Butanone

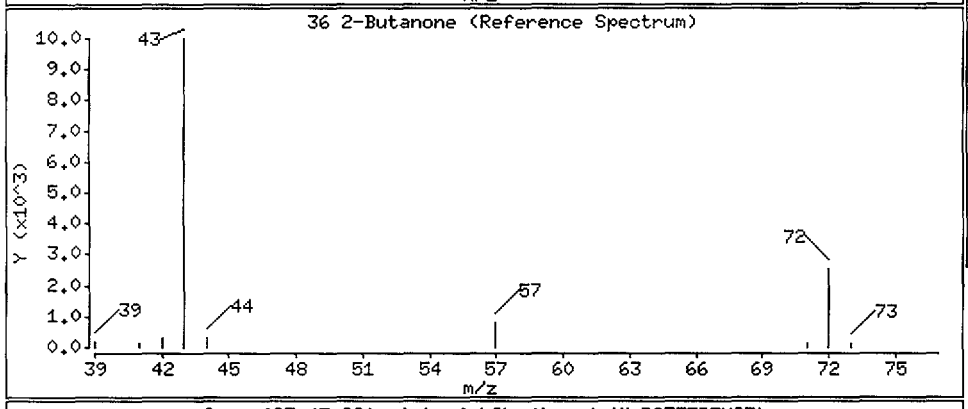
Concentration: 0.022265 ug

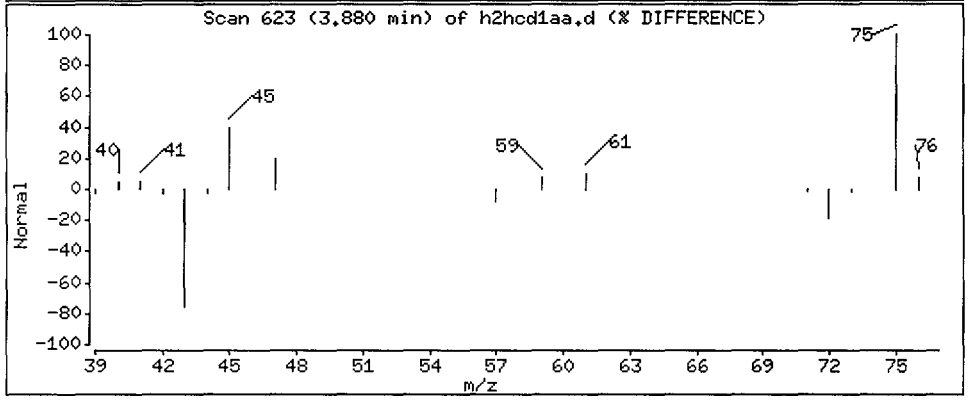












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

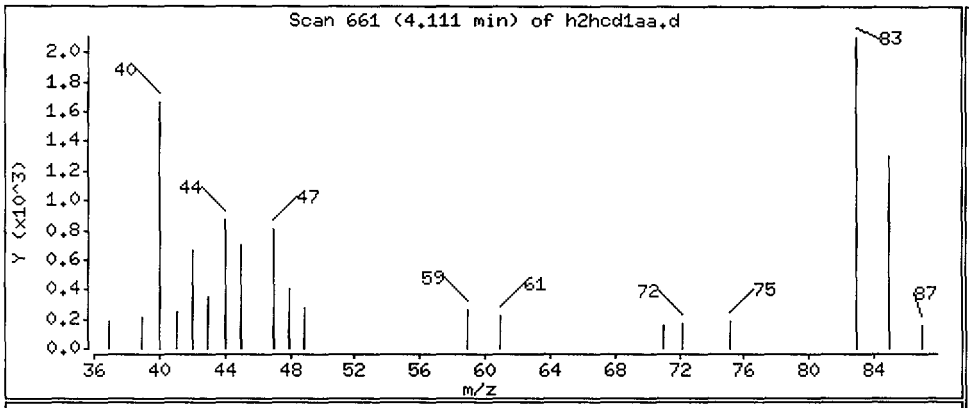
Operator: 22980

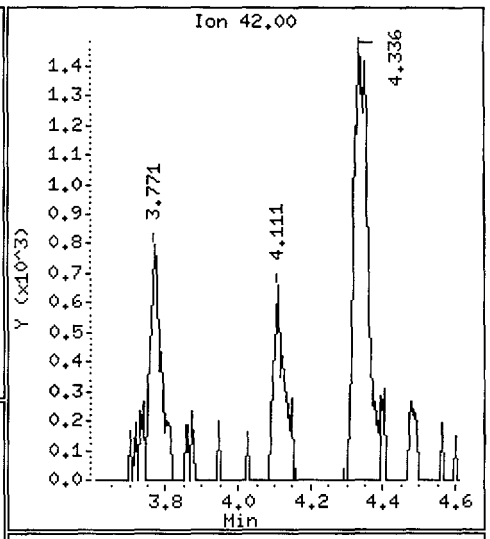
Column phase: J+W 624

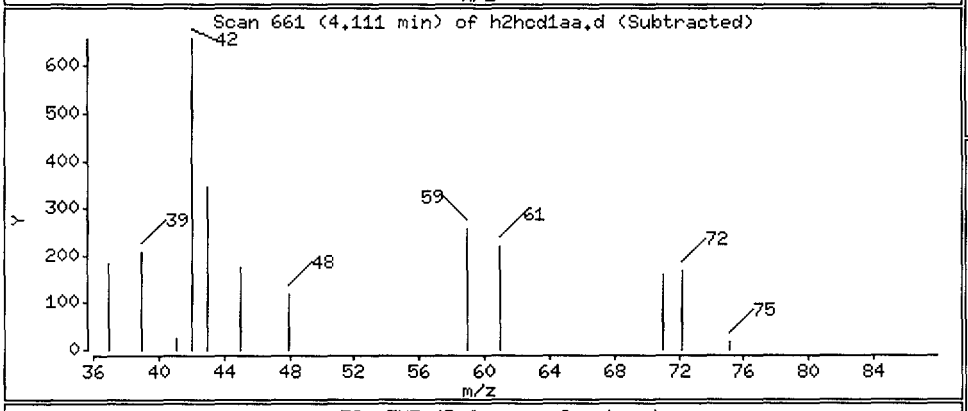
Column diameter: 0.18

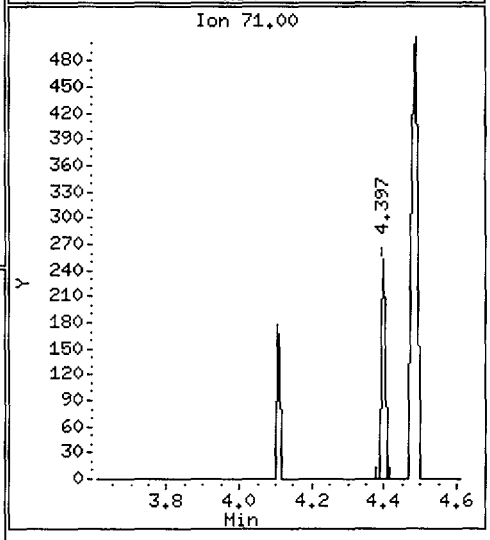
38 *THF

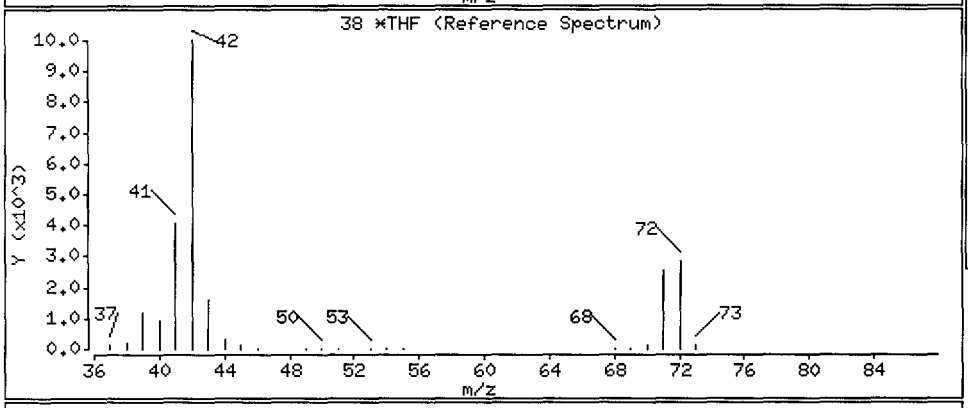
Concentration: 0.023256 ug

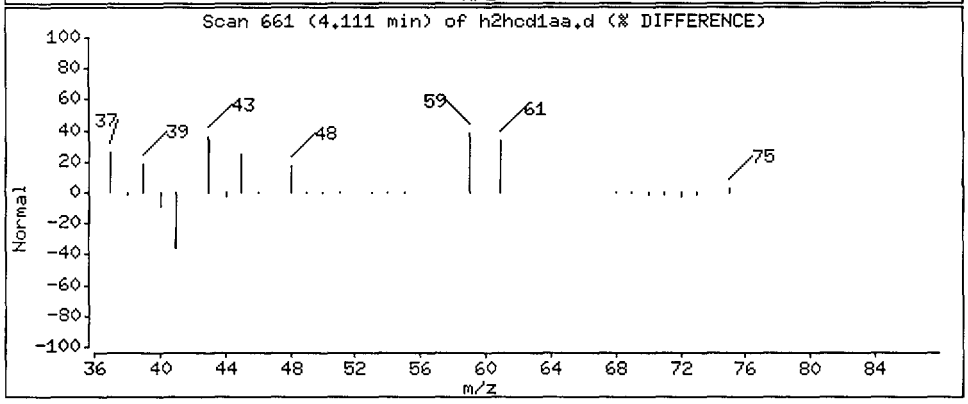












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

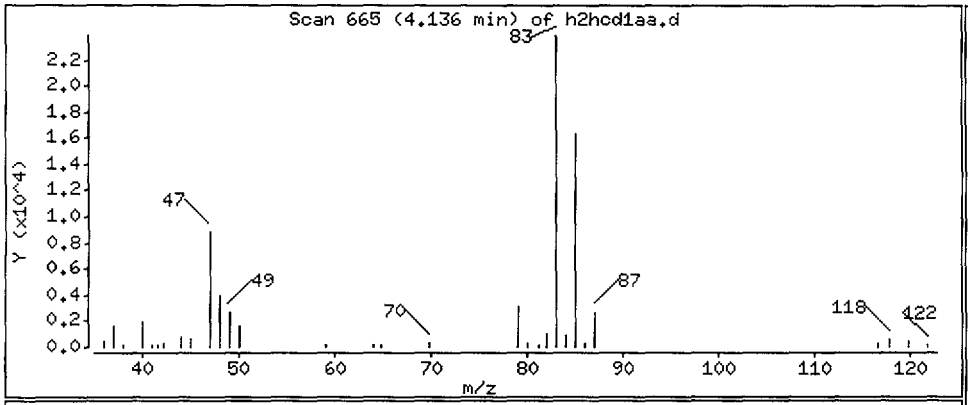
Operator: 22980

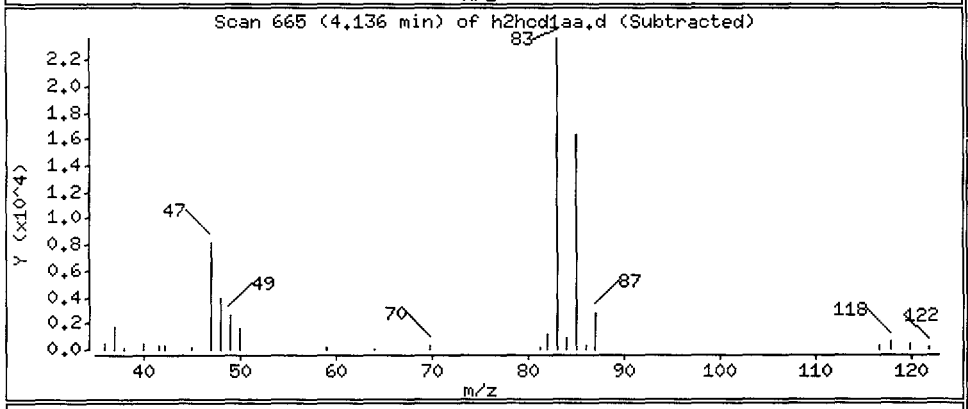
Column phase: J+W 624

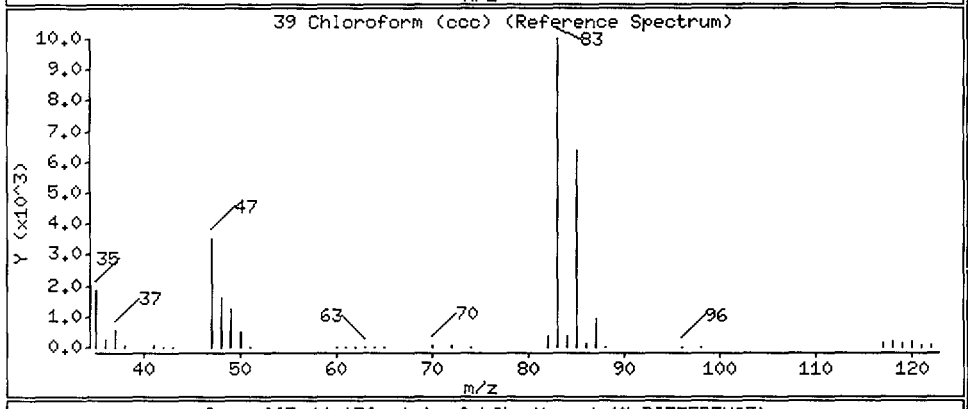
Column diameter: 0.18

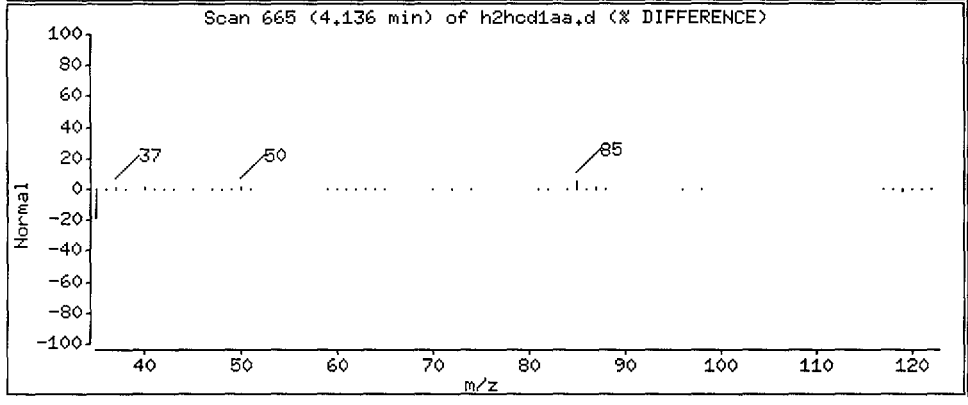
39 Chloroform (ccc)

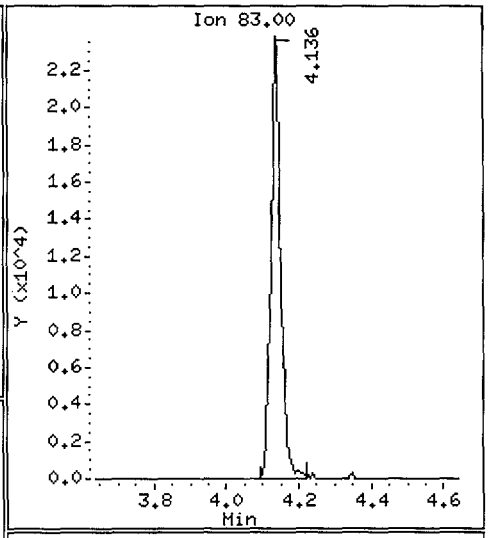
Concentration: 0.027091 ug

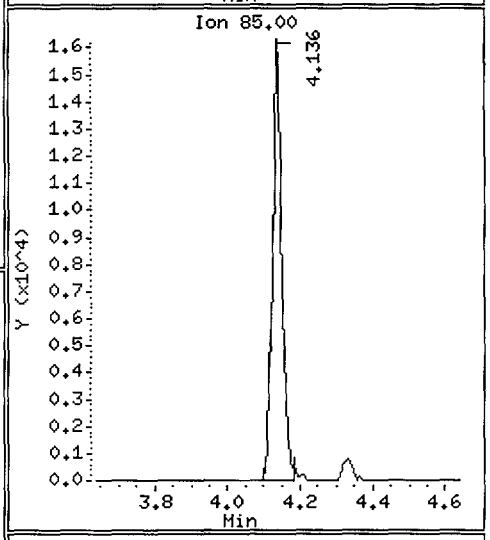


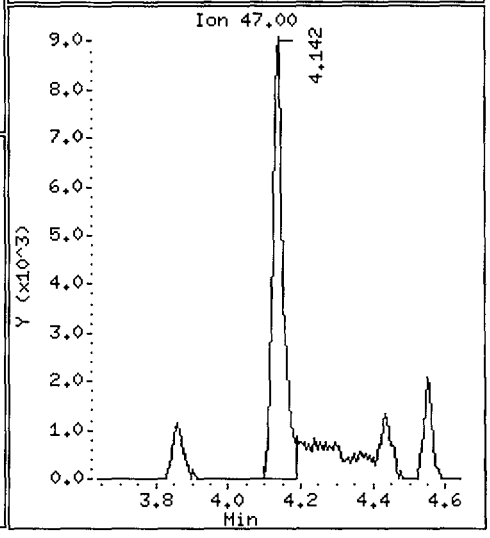












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

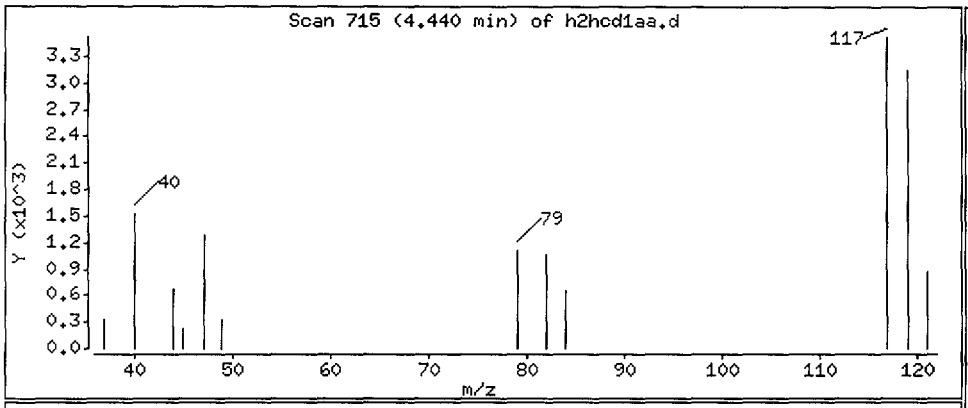
Operator: 22980

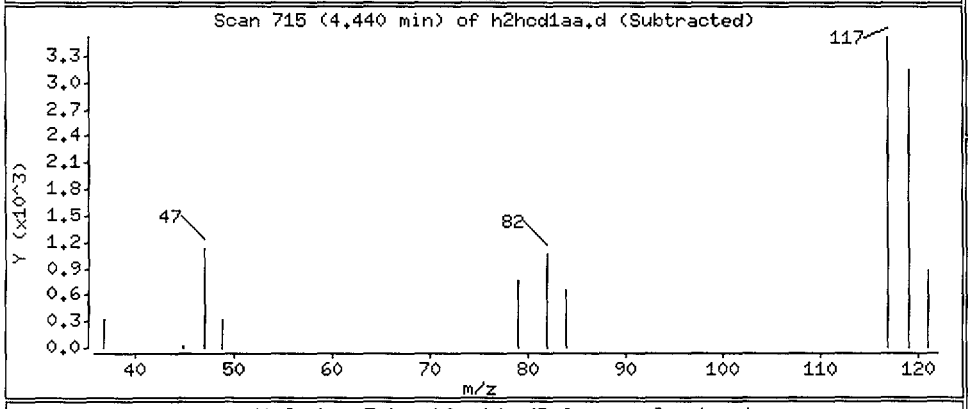
Column phase: J+W 624

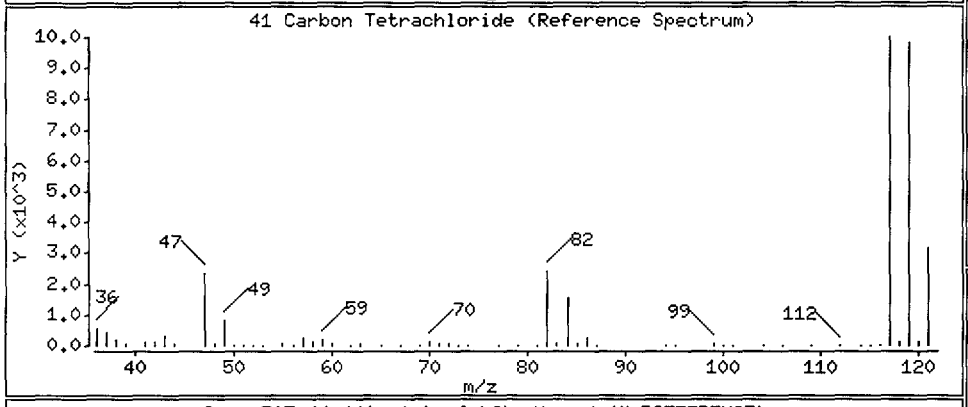
Column diameter: 0.18

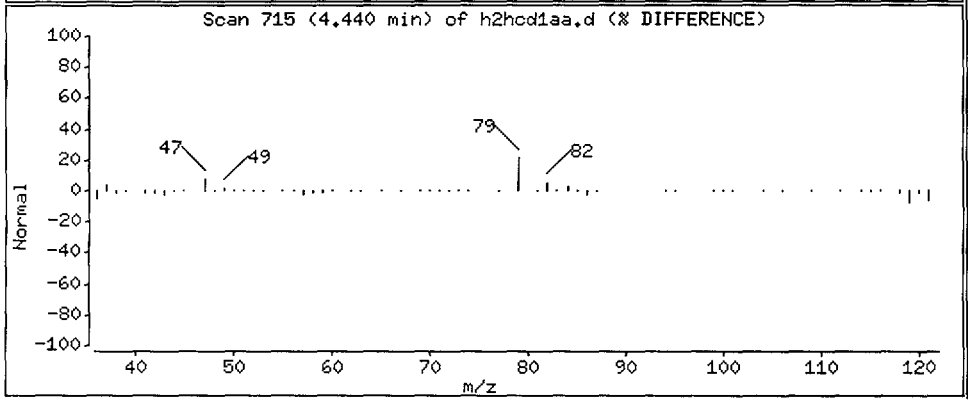
41 Carbon Tetrachloride

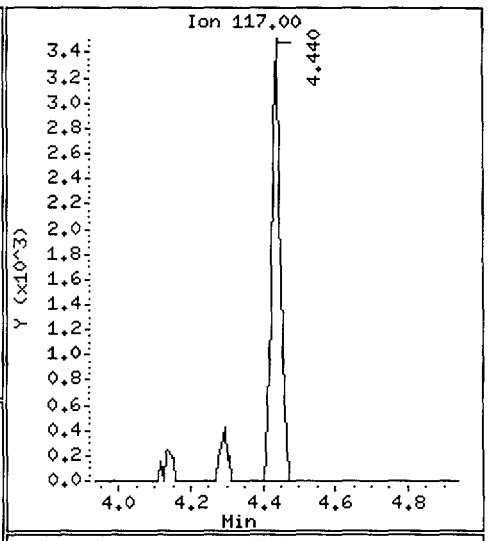
Concentration: 0.0038374 ug

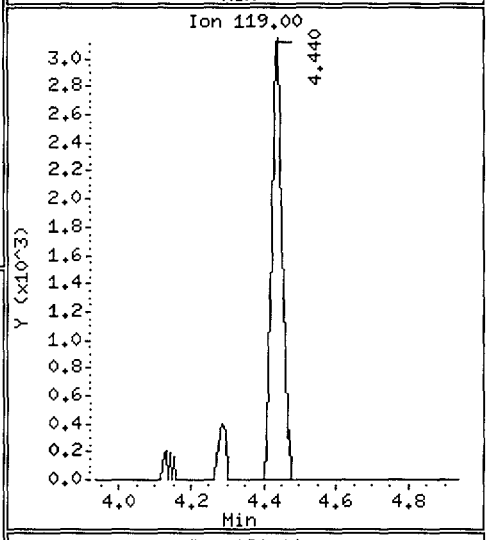


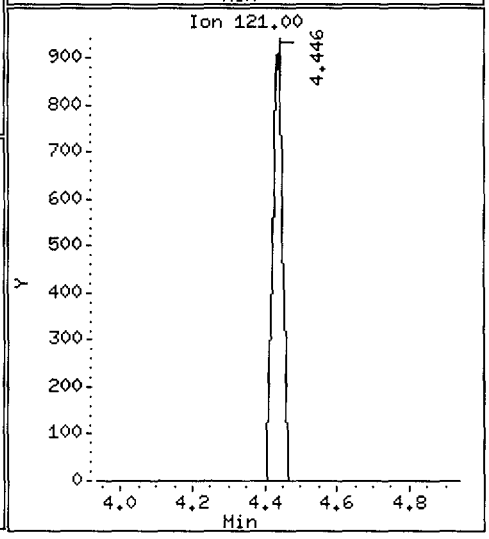












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

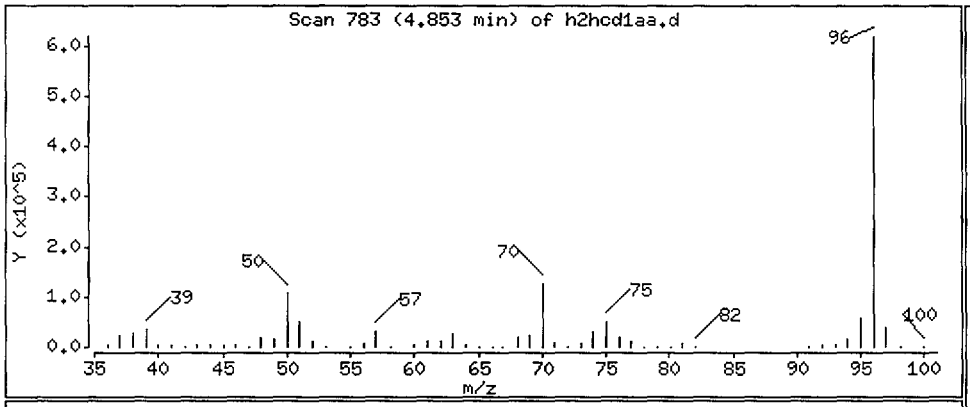
Operator: 22980

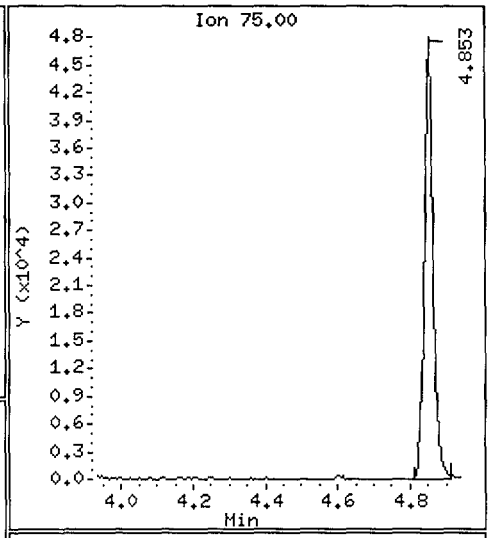
Column phase: J+W 624

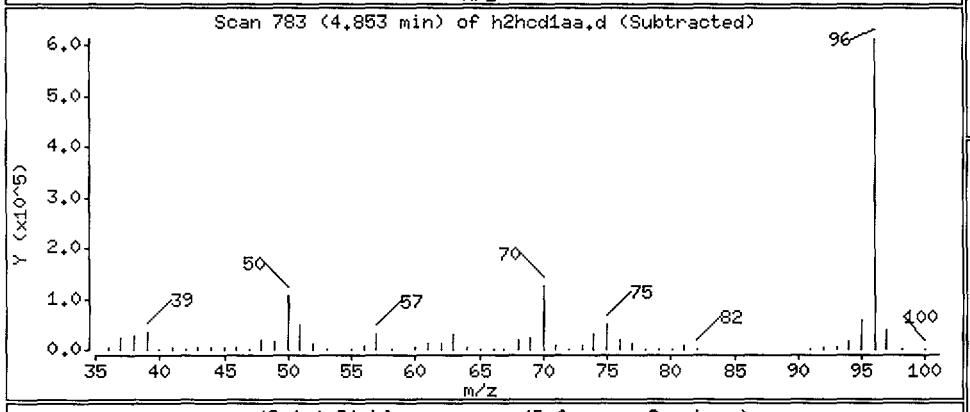
Column diameter: 0.18

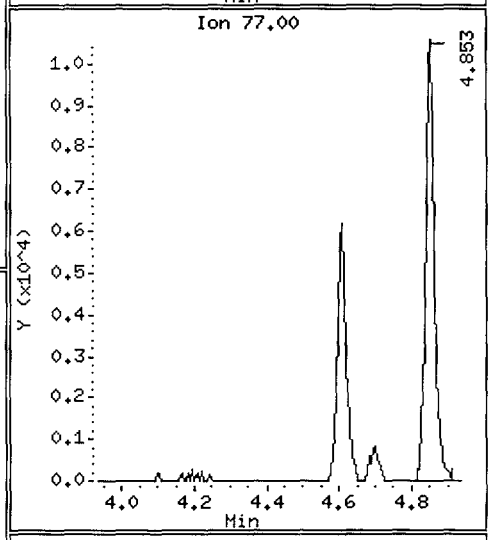
42 1,1-Dichloropropene

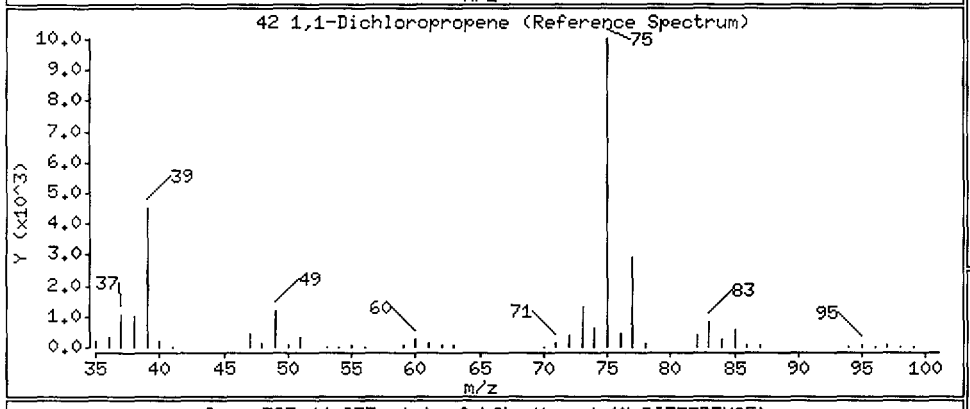
Concentration: 0.049060 ug

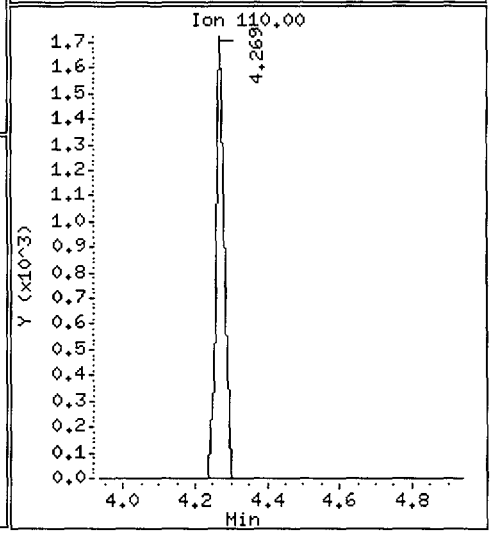


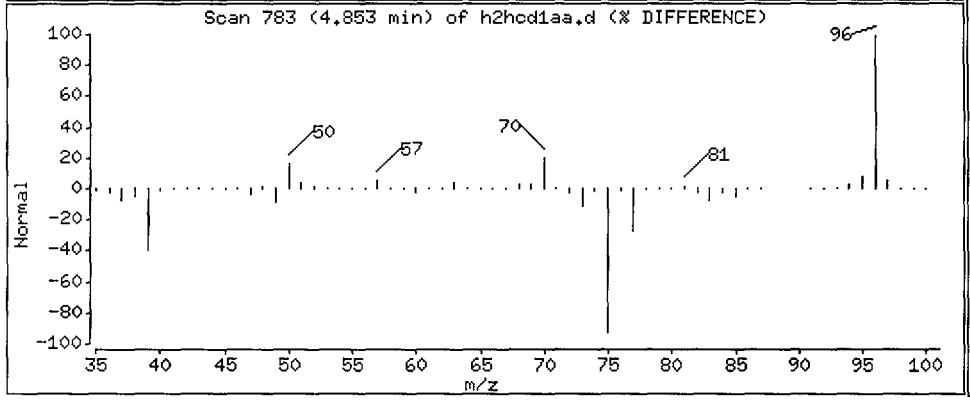












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

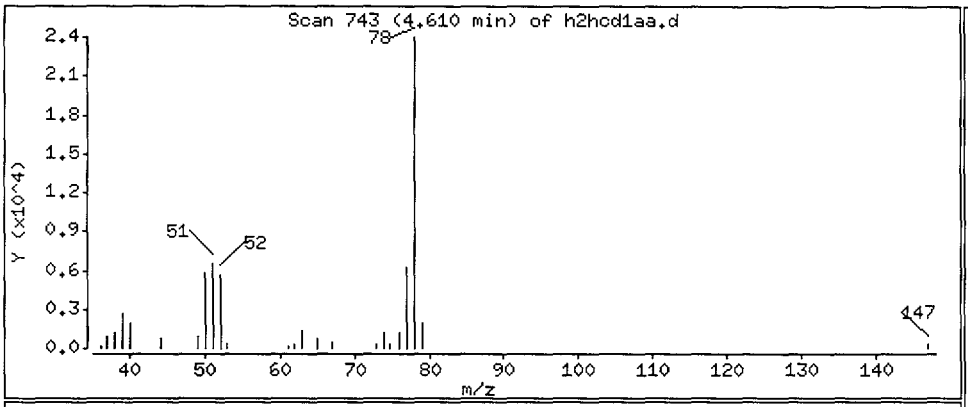
Operator: 22980

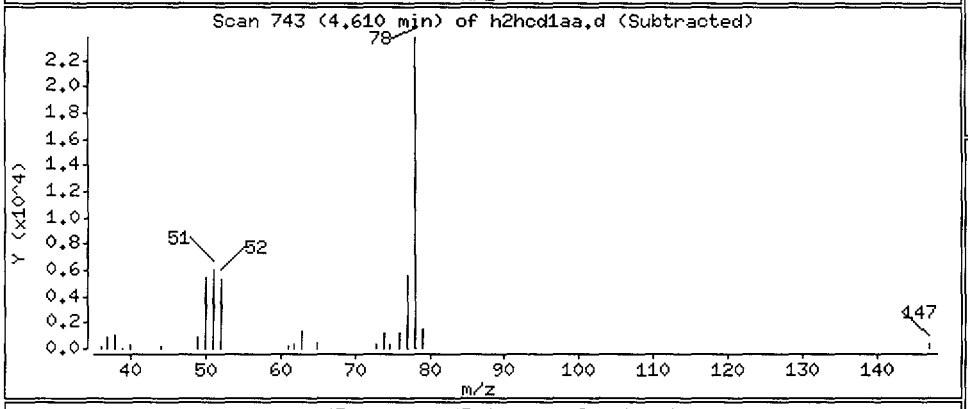
Column phase: J+W 624

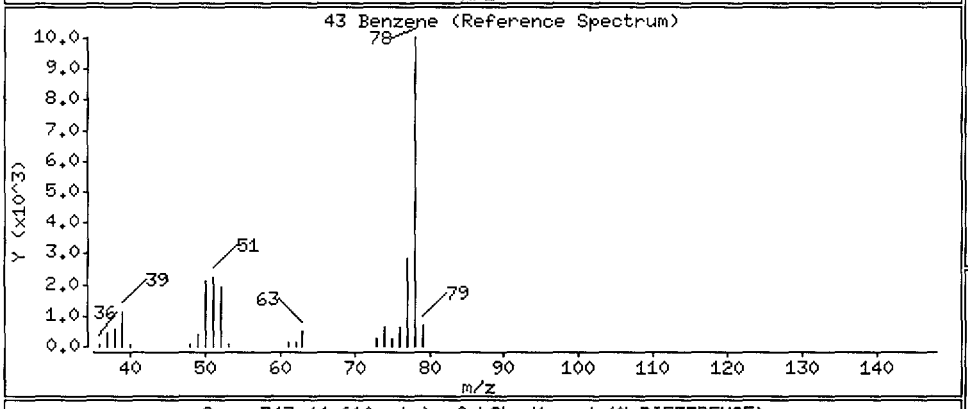
Column diameter: 0.18

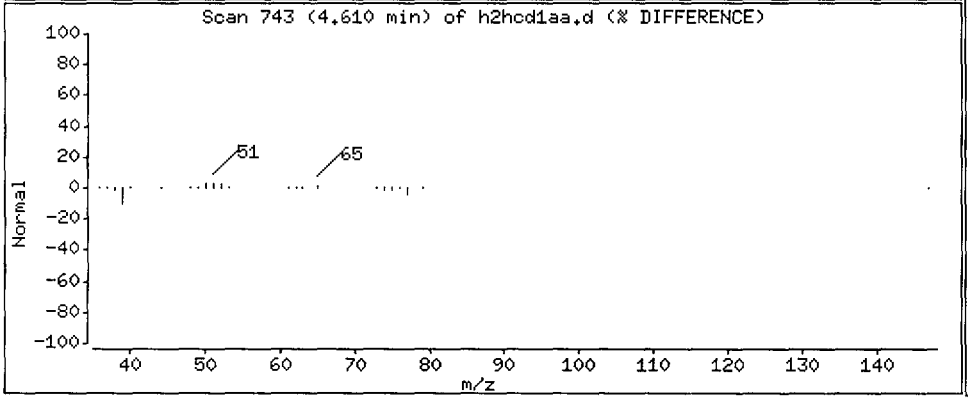
43 Benzene

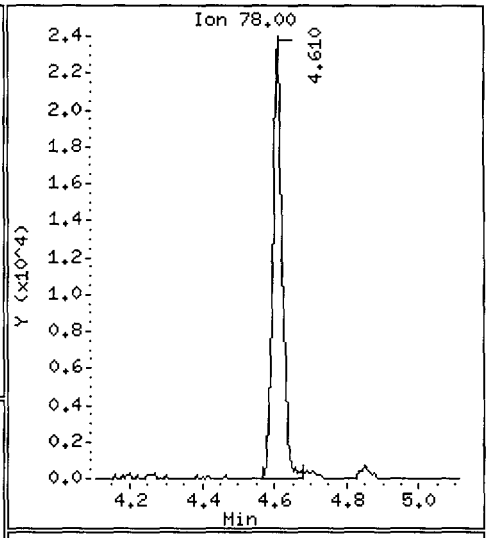
Concentration: 0.0099951 ug

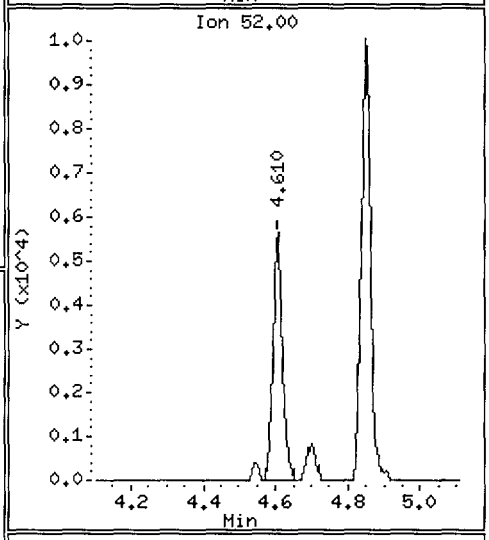


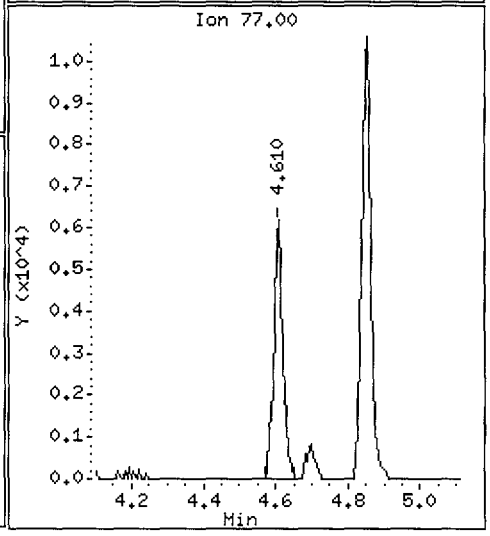












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

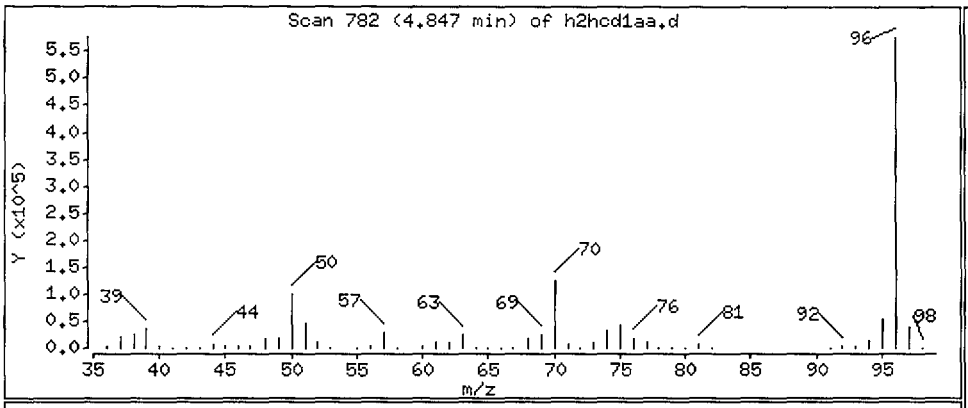
Operator: 22980

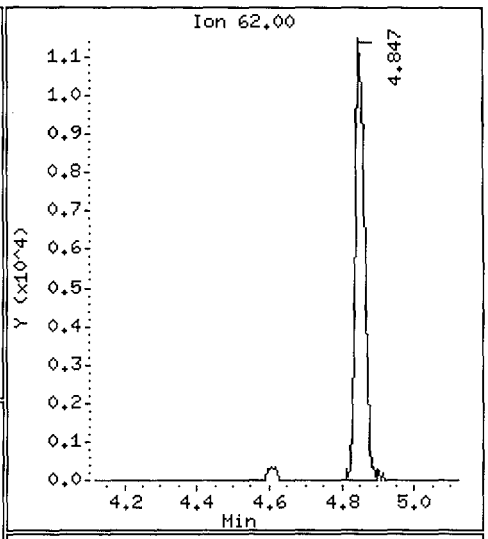
Column phase: J+W 624

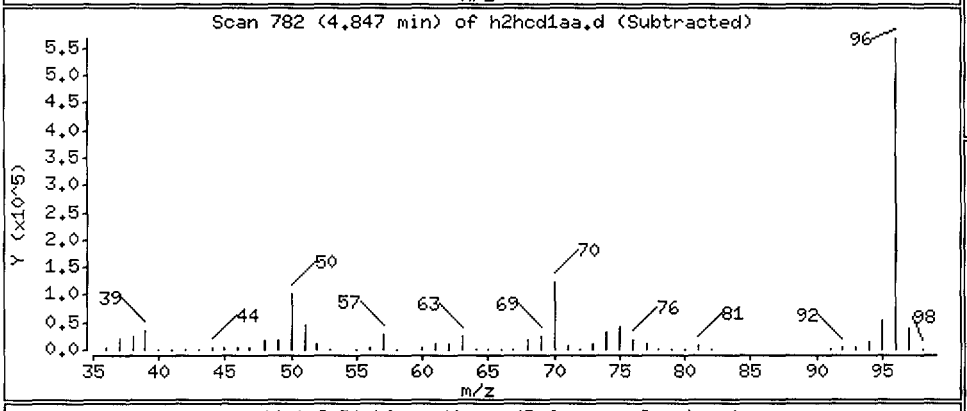
Column diameter: 0.18

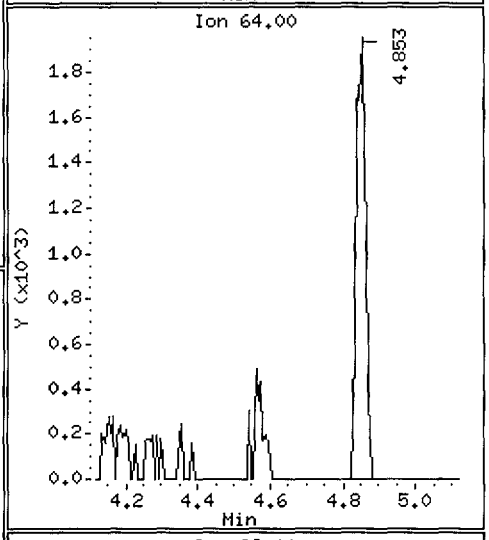
44 1,2-Dichloroethane

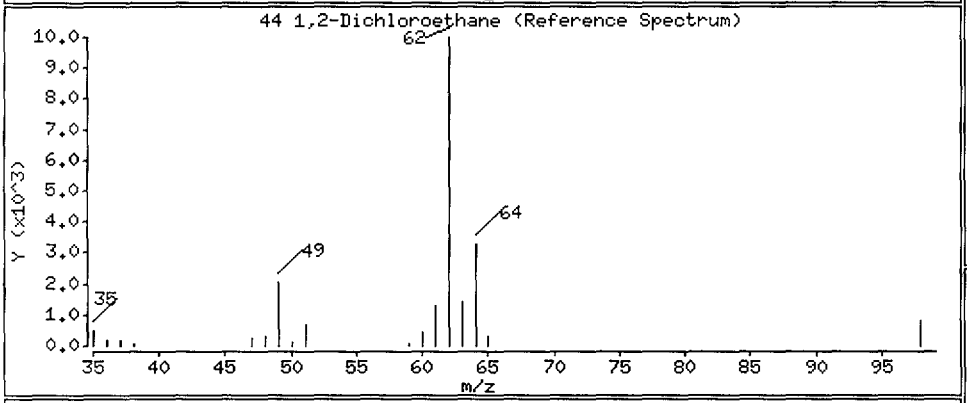
Concentration: 0.026194 ug

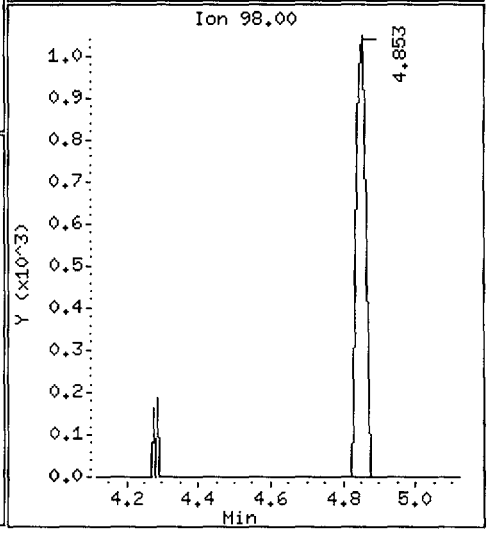


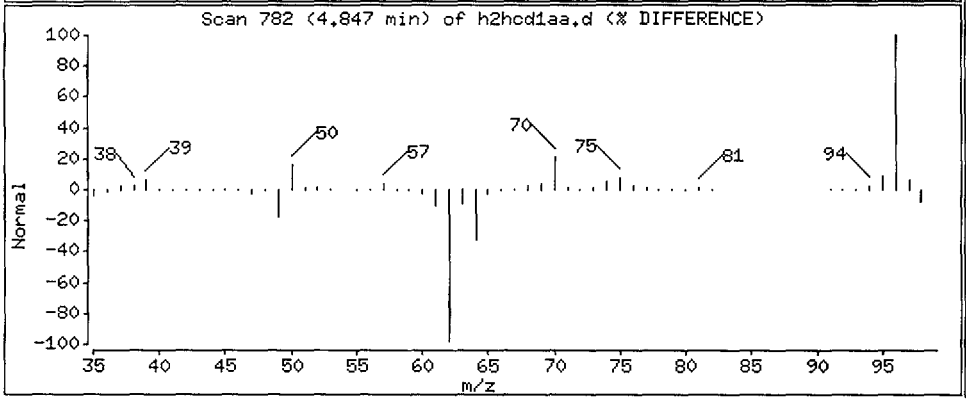












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

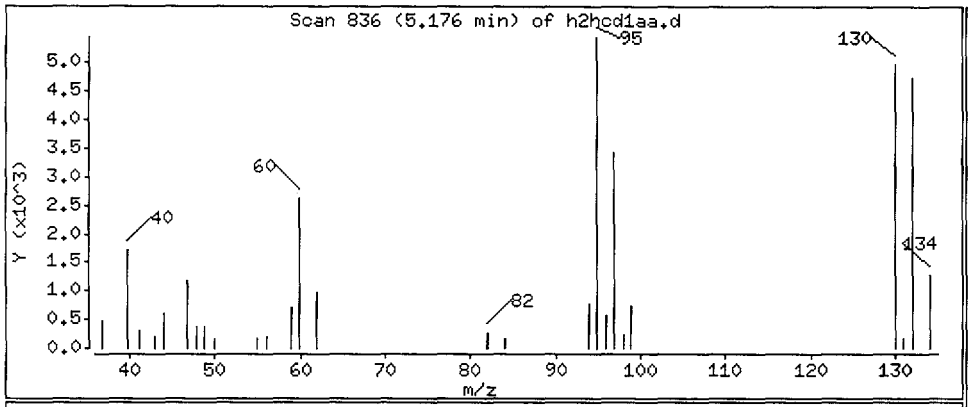
Operator: 22980

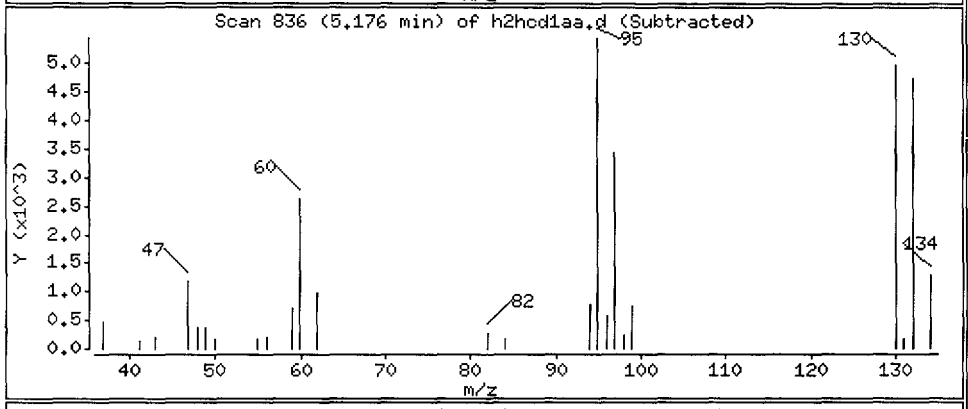
Column phase: J+W 624

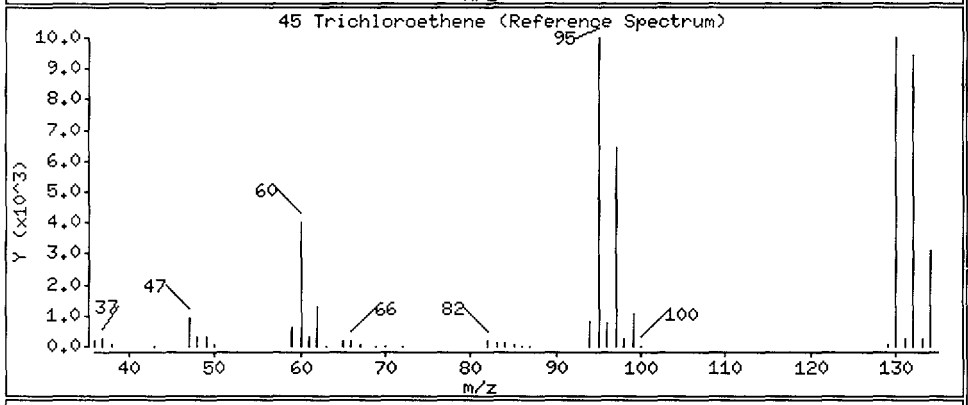
Column diameter: 0.18

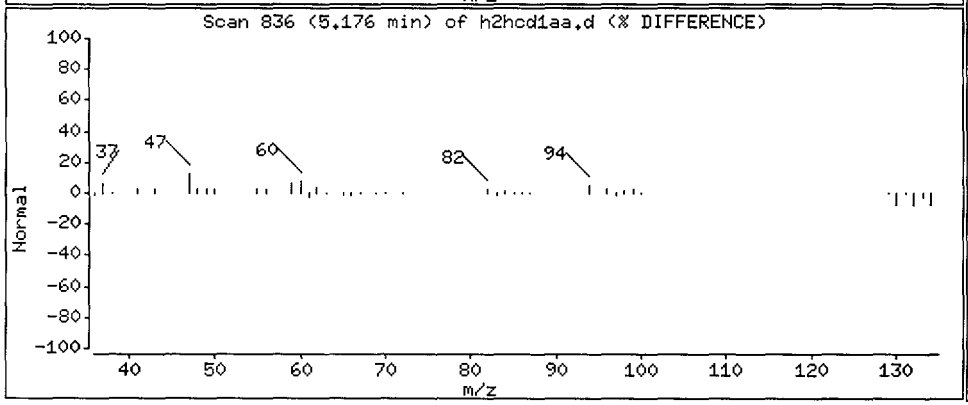
45 Trichloroethene

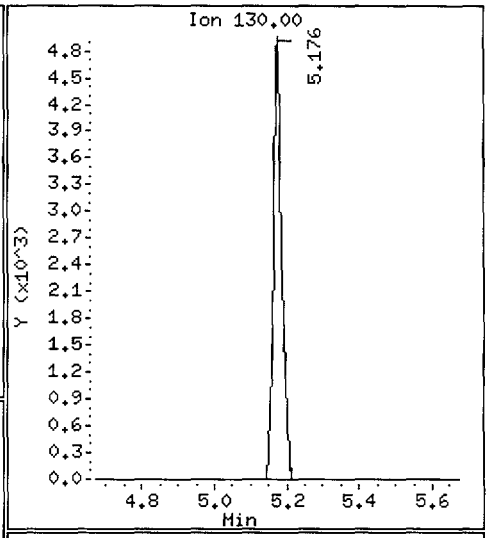
Concentration: 0.0069154 ug

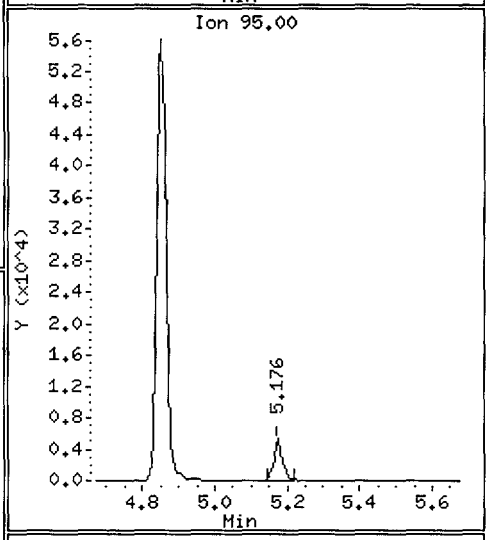


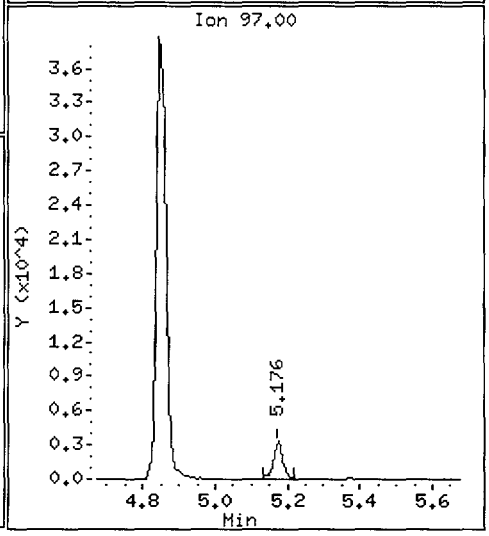












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

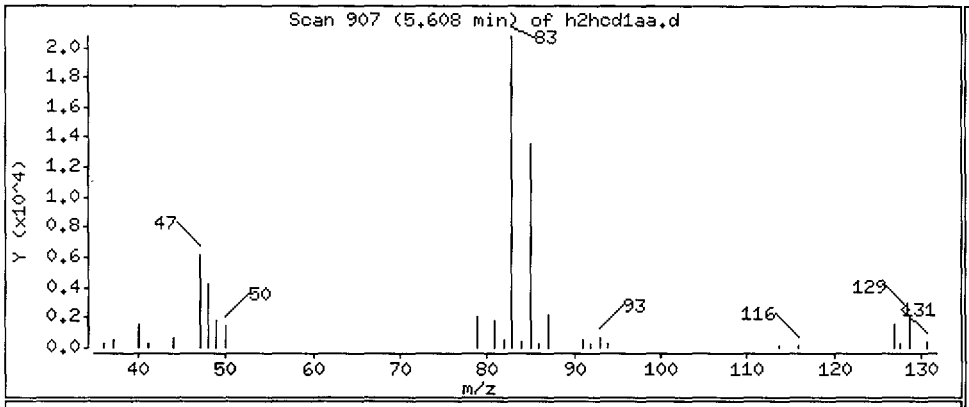
Operator: 22980

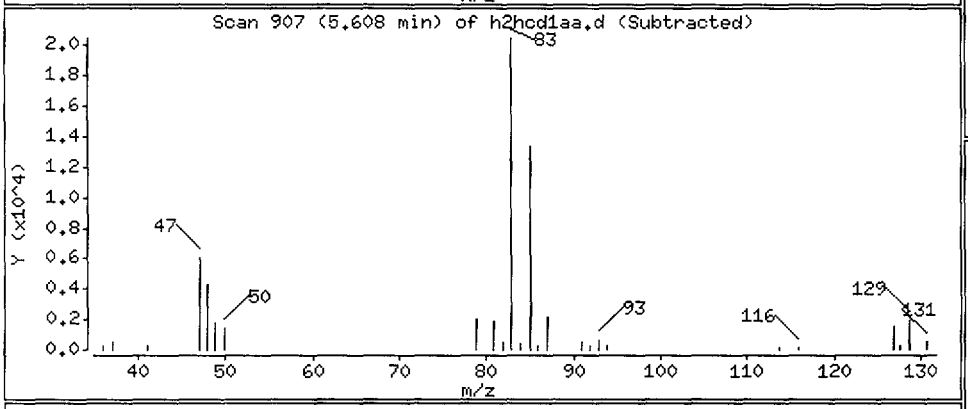
Column phase: J+W 624

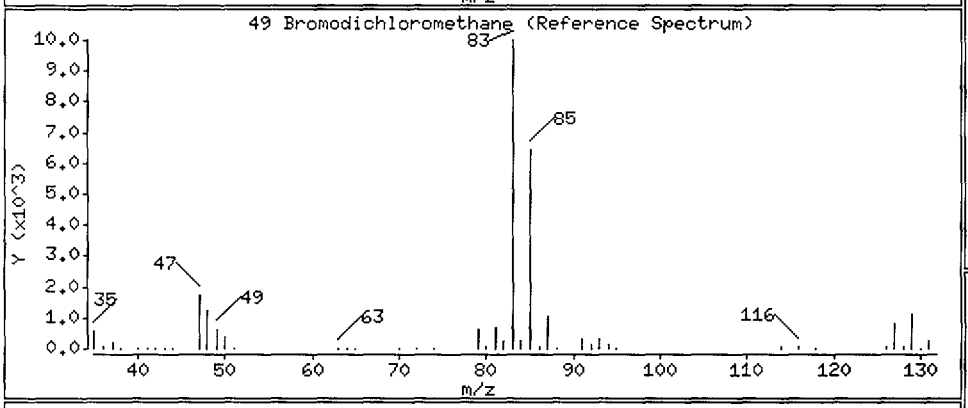
Column diameter: 0.18

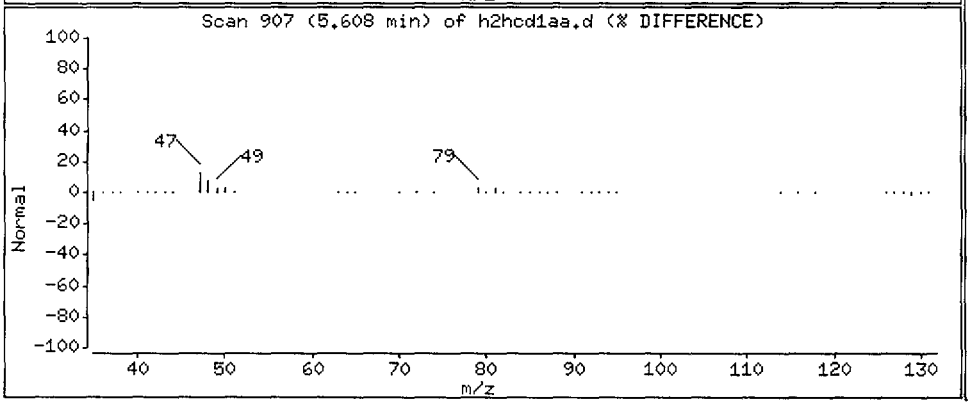
49 Bromodichloromethane

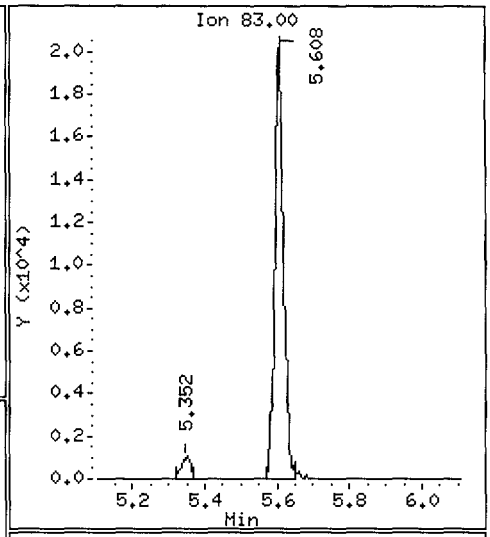
Concentration: 0.037822 ug

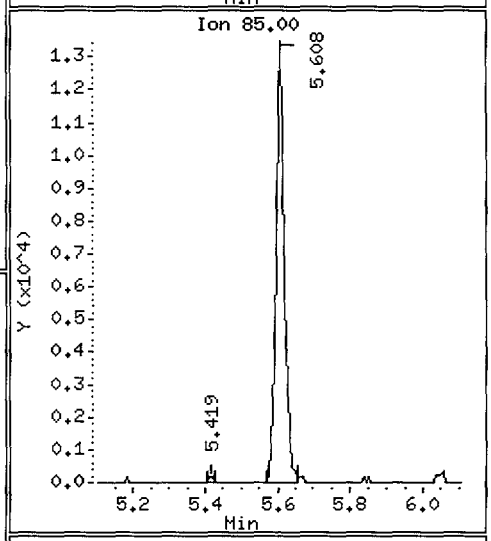


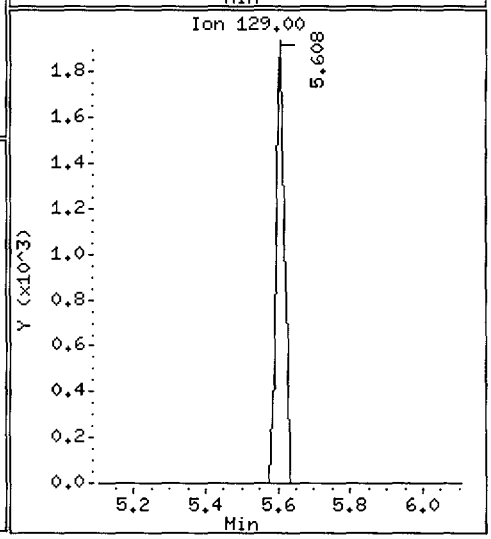












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

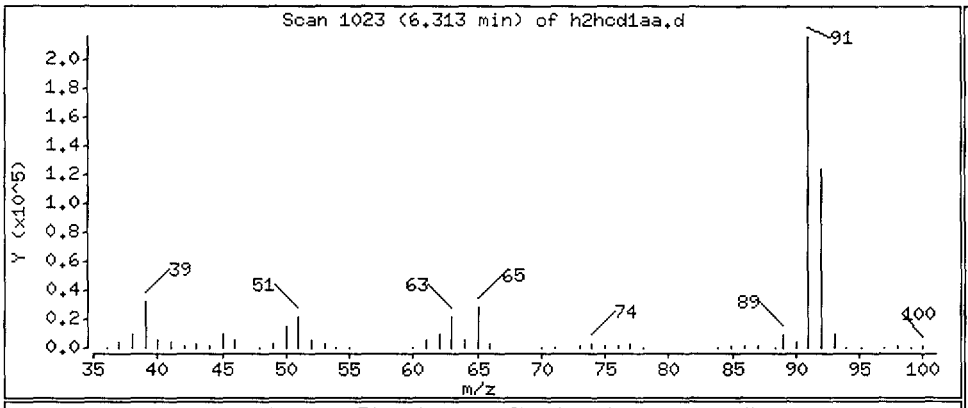
Operator: 22980

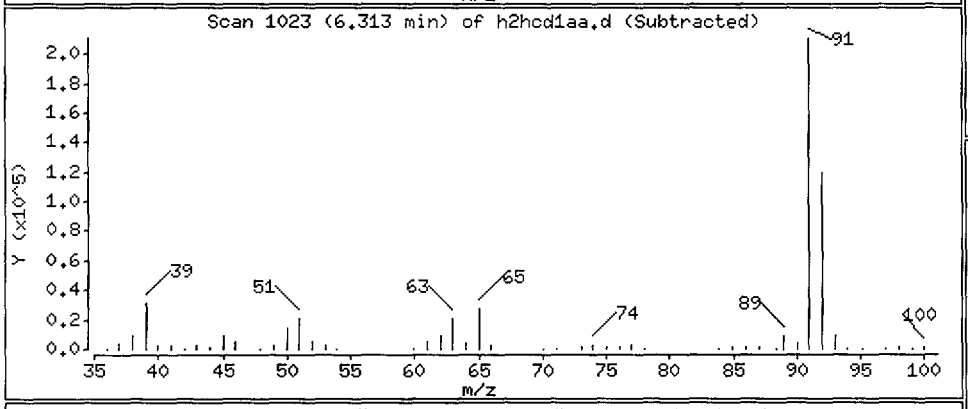
Column phase: J+W 624

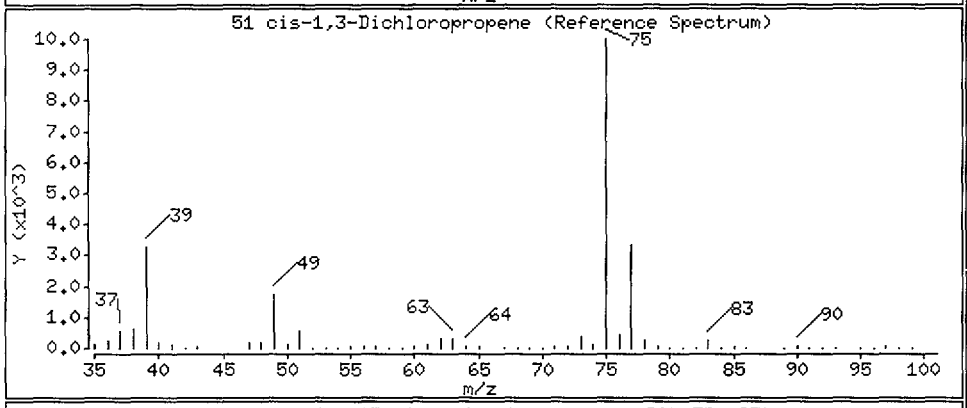
Column diameter: 0.18

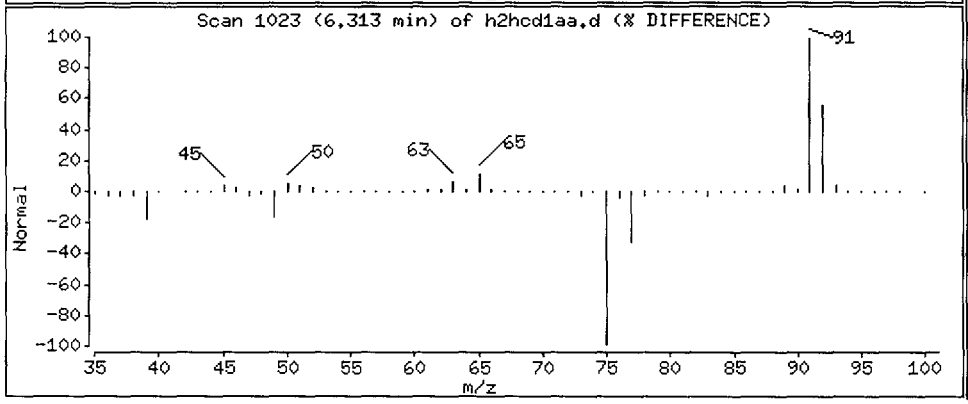
51 cis-1,3-Dichloropropene

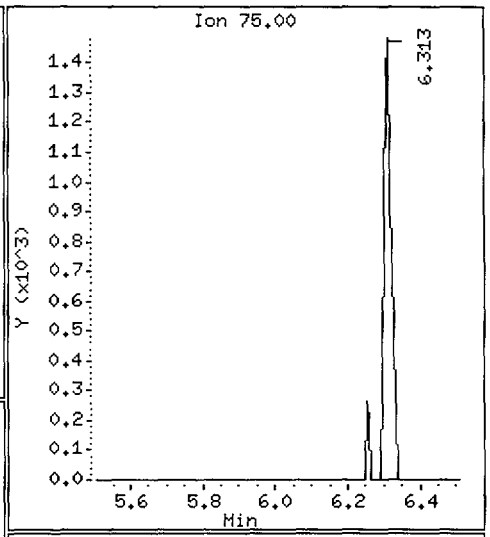
Concentration: 0.0019531 ug

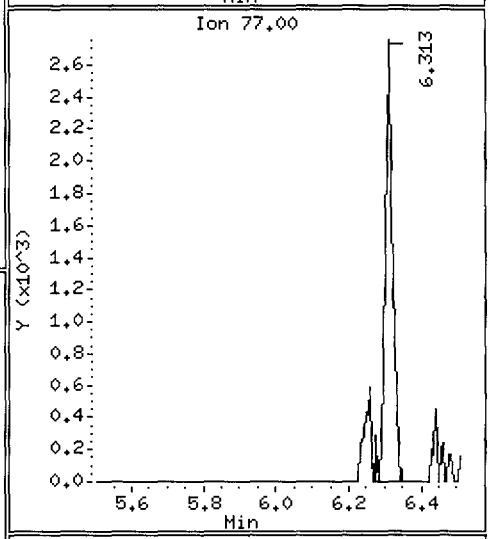


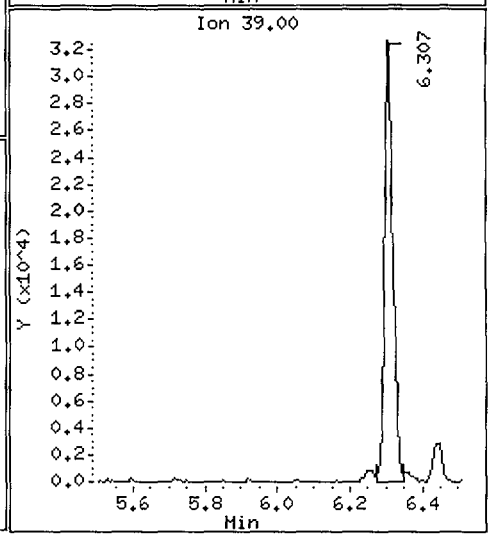












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

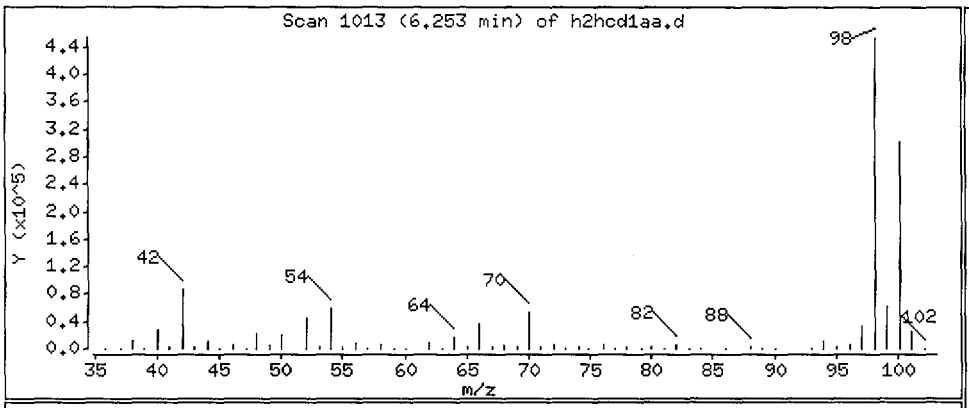
Operator: 22980

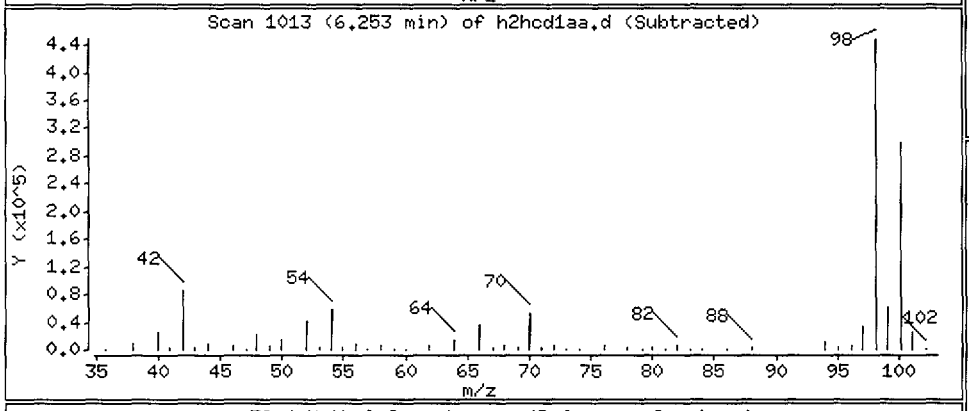
Column phase: J+W 624

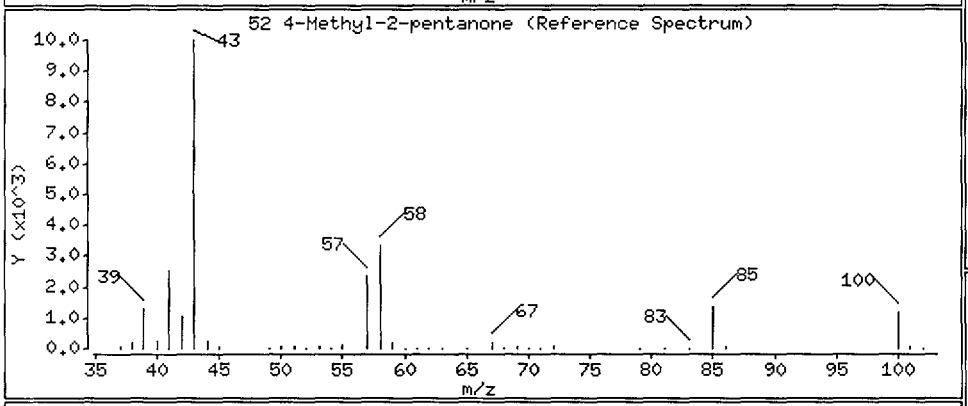
Column diameter: 0.18

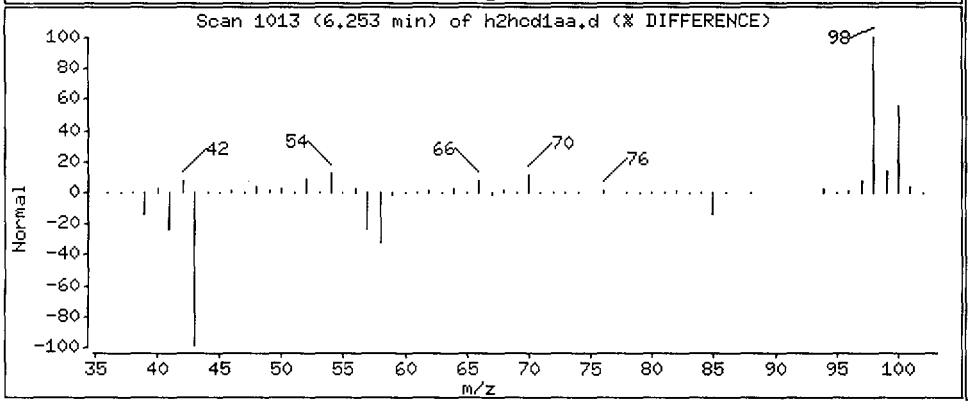
52 4-Methyl-2-pentanone

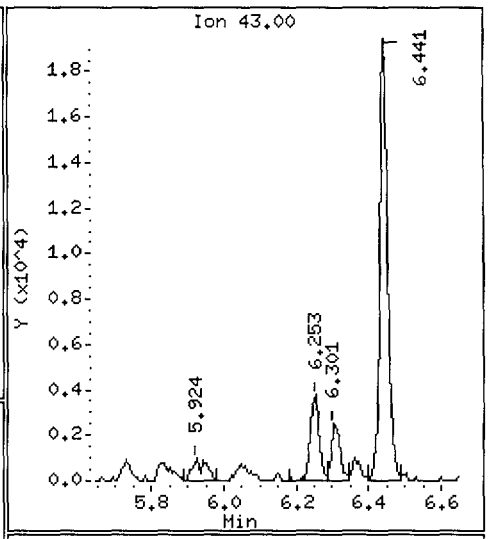
Concentration: 0.027374 ug

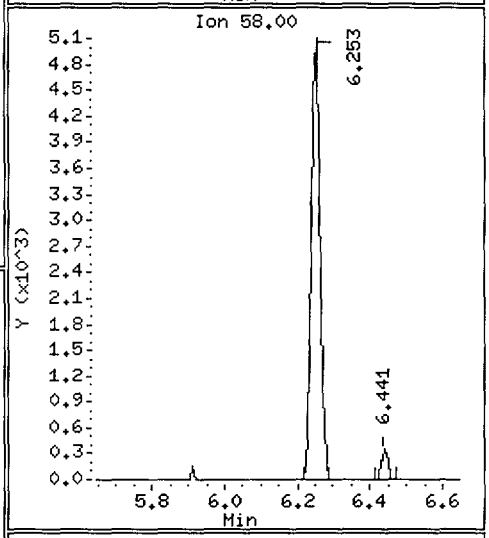


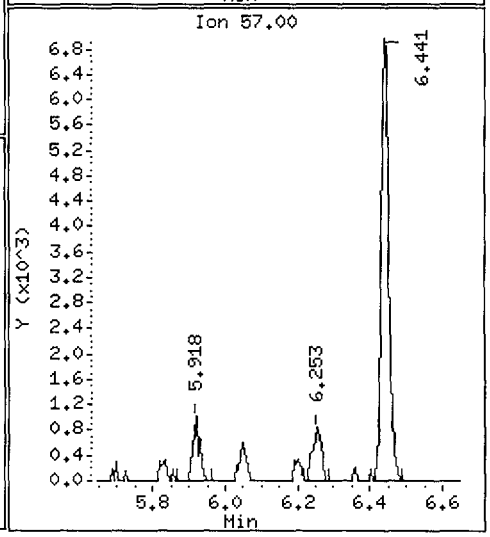












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

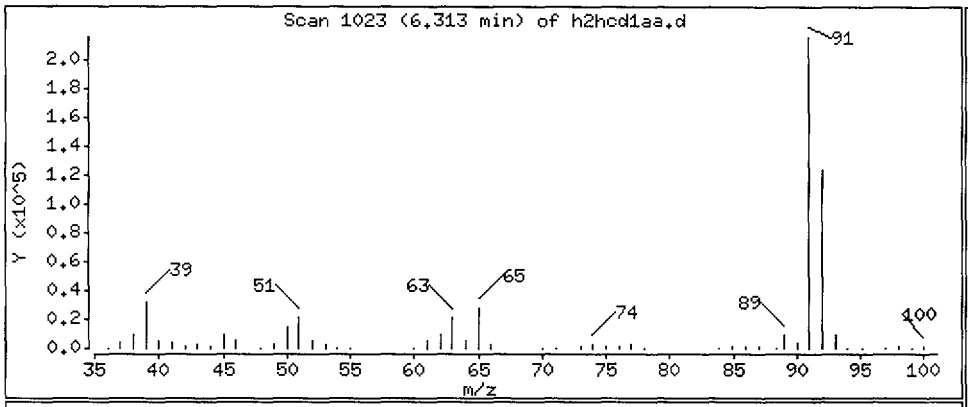
Operator: 22980

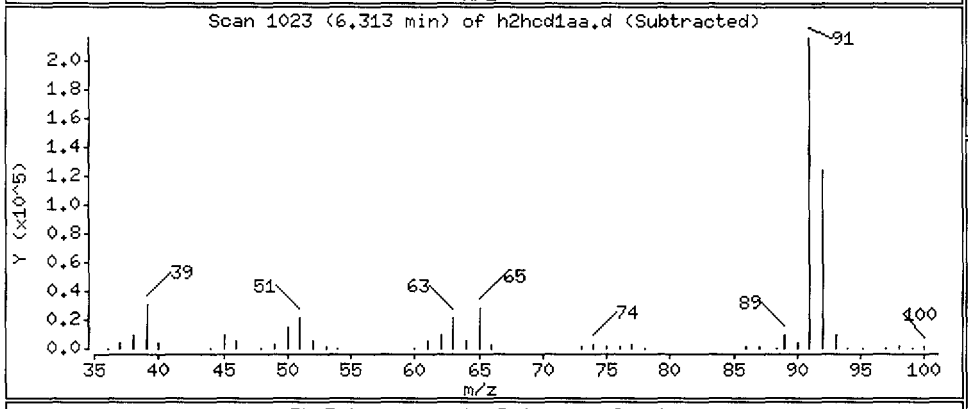
Column phase: J+W 624

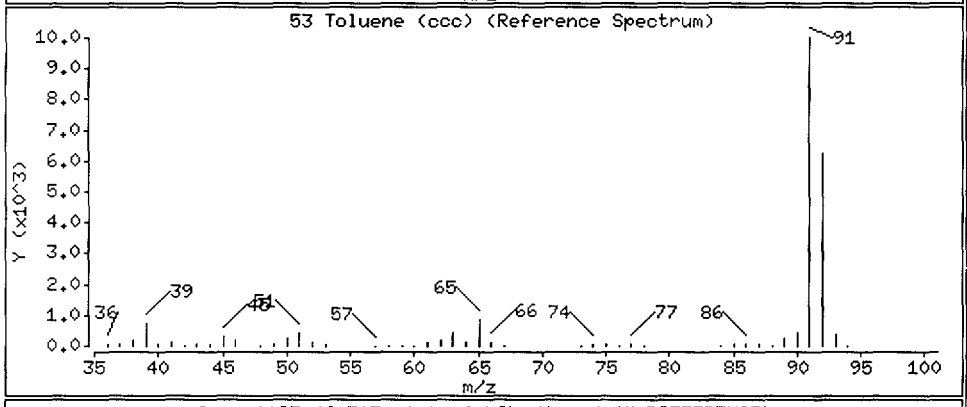
Column diameter: 0.18

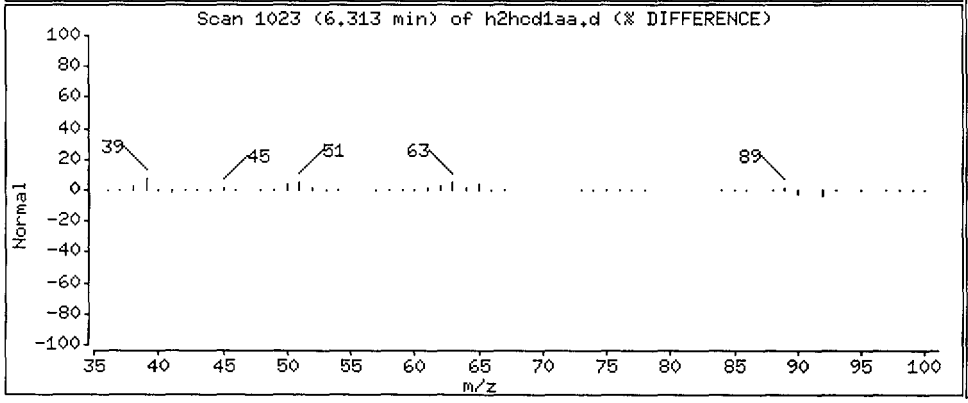
53 Toluene (ccc)

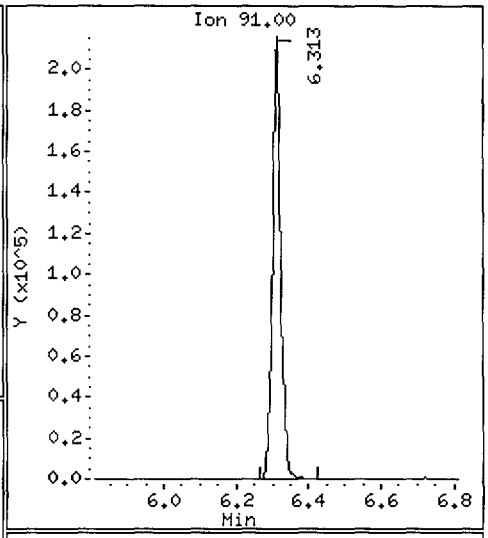
Concentration: 0.068086 ug

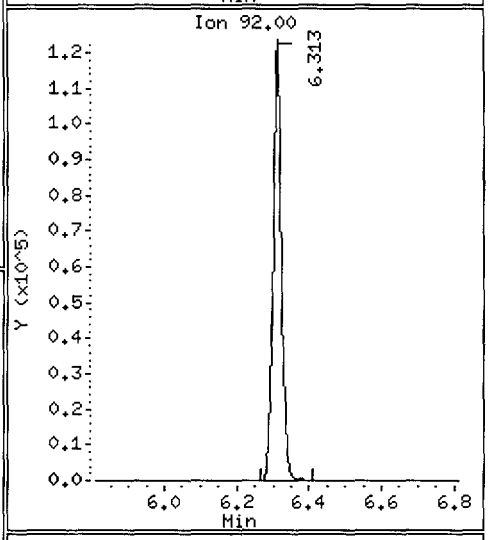


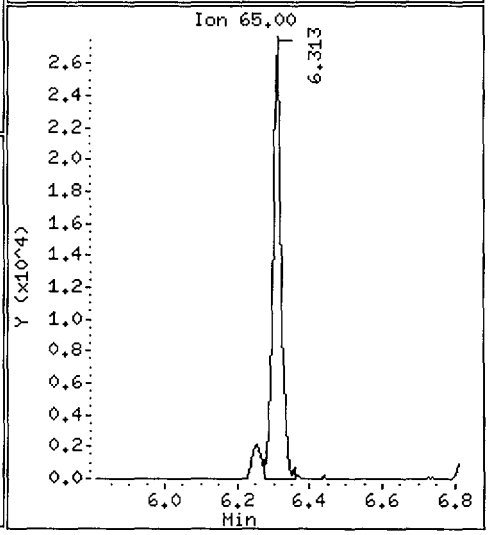












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

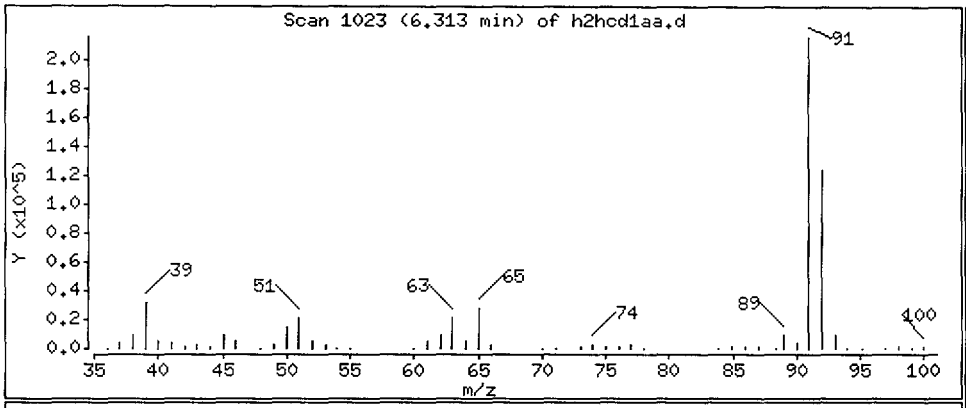
Operator: 22980

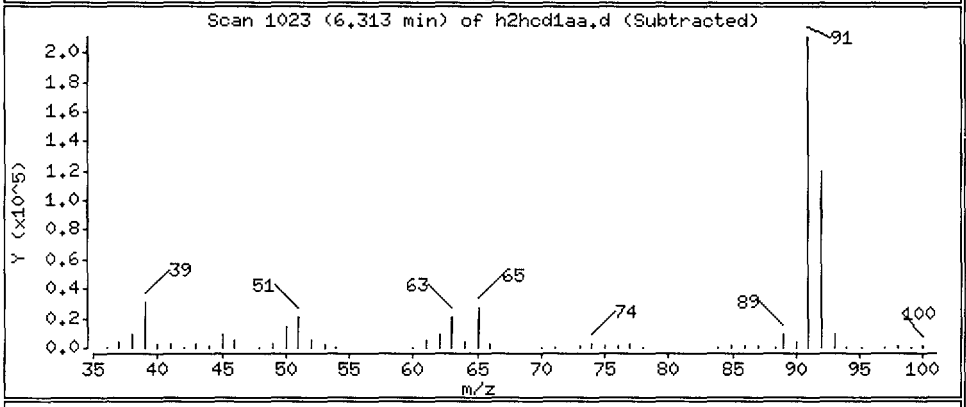
Column phase: J+W 624

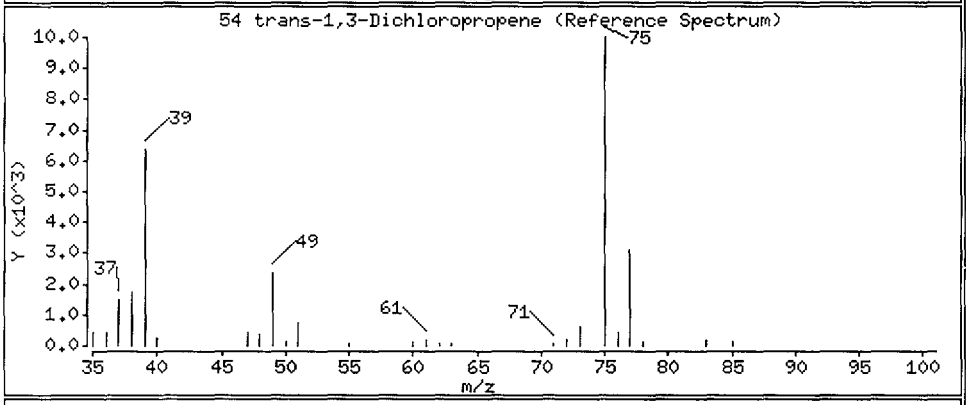
Column diameter: 0.18

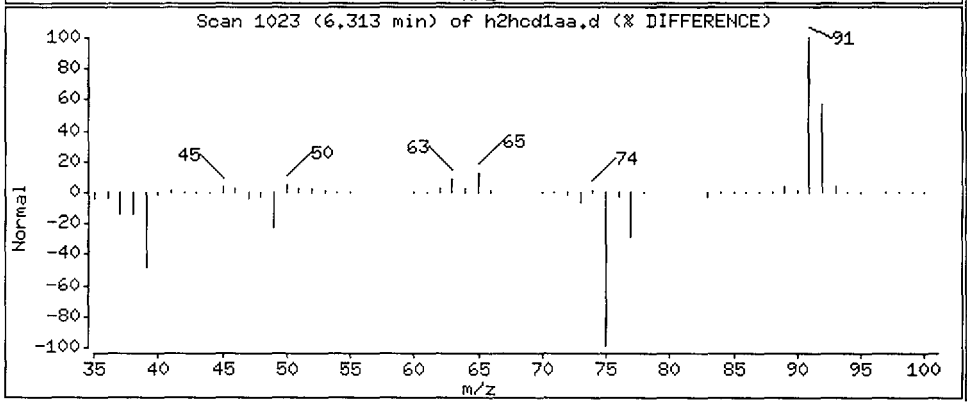
54 trans-1,3-Dichloropropene

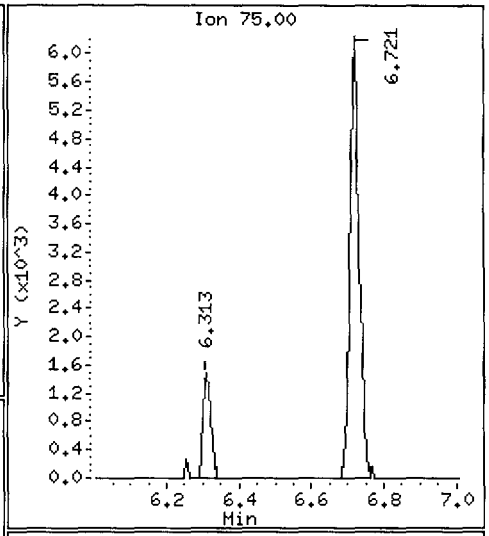
Concentration: 0.0023470 ug

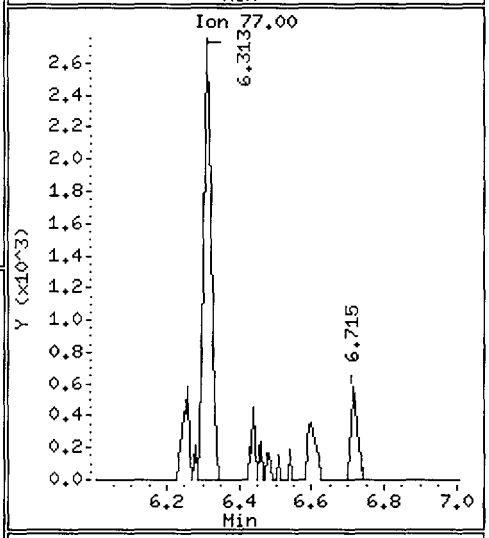


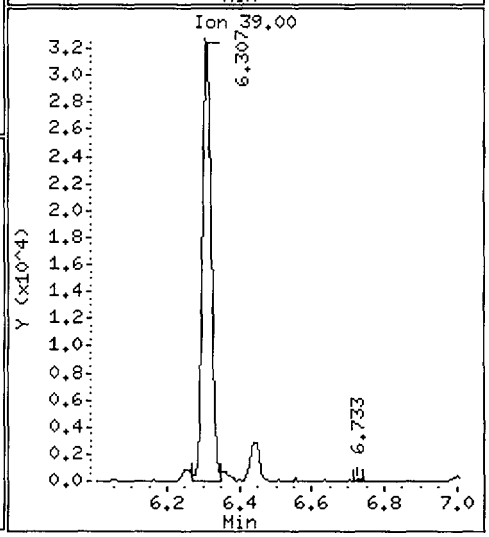












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

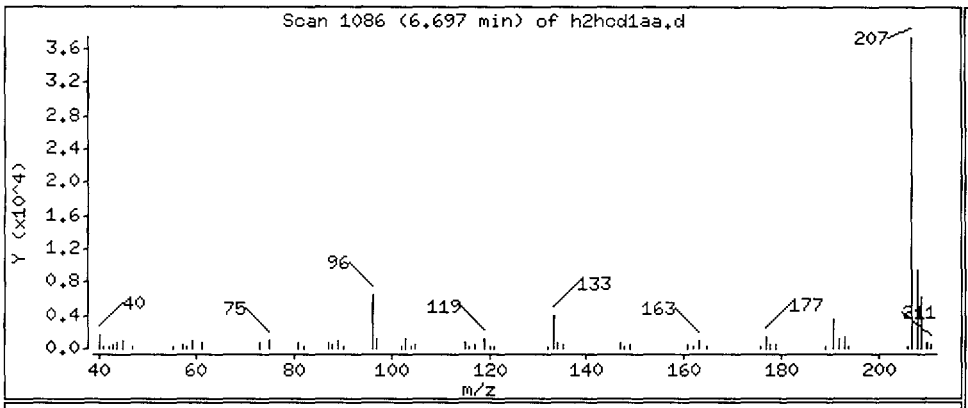
Operator: 22980

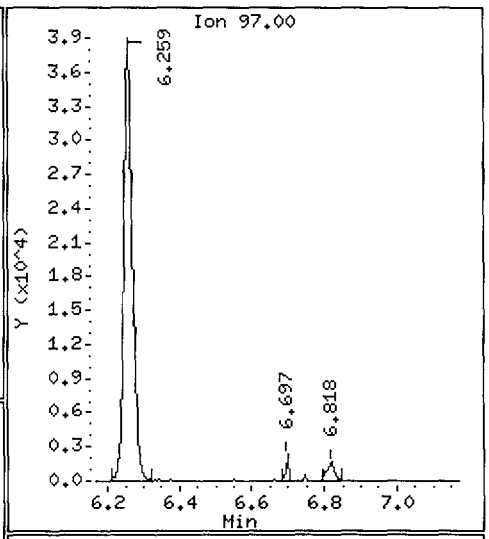
Column phase: J+W 624

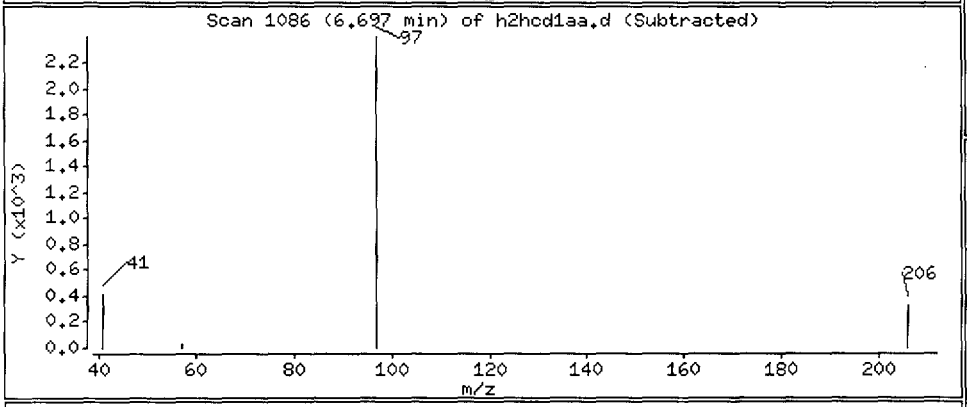
Column diameter: 0.18

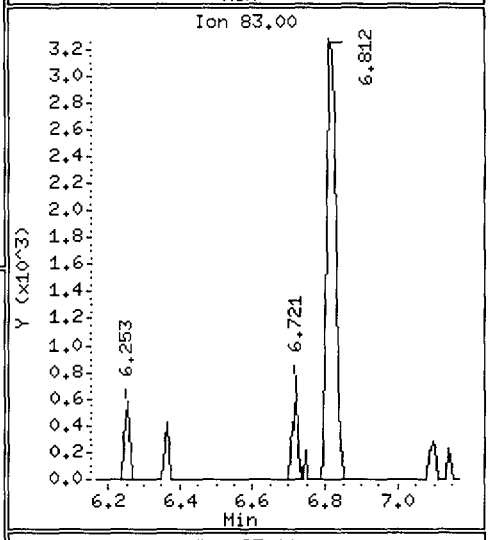
56 1,1,2-Trichloroethane

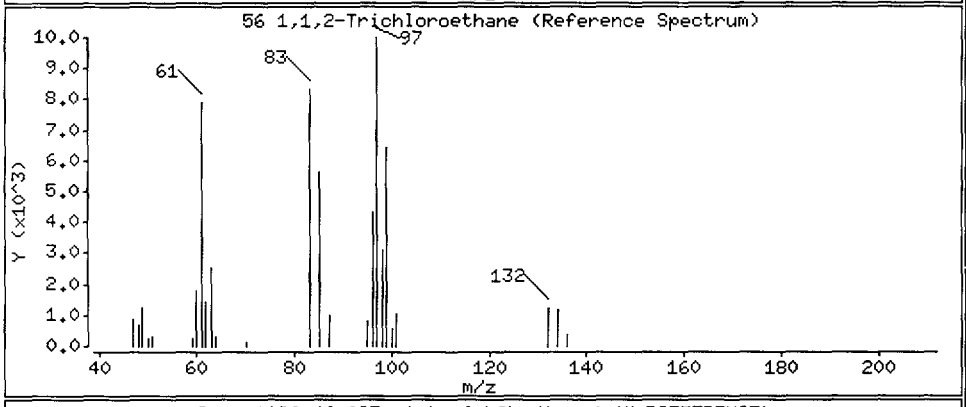
Concentration: 0.0027086 ug

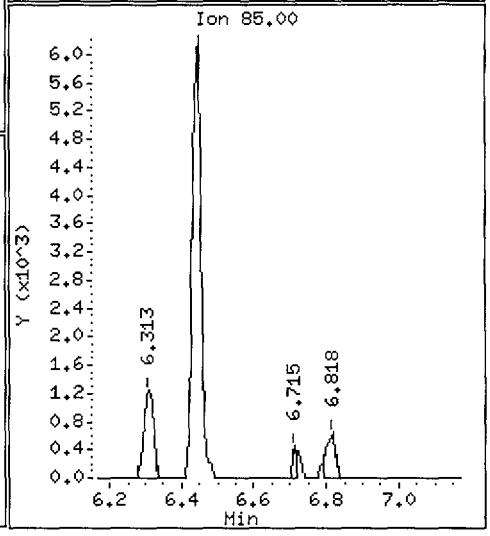


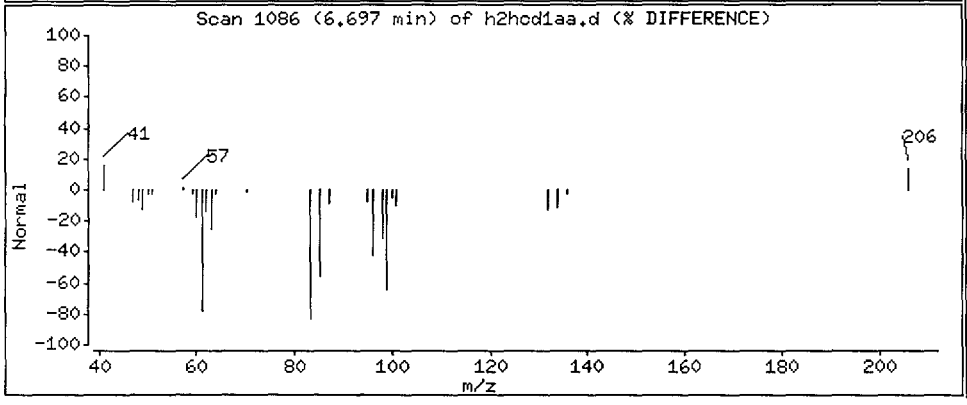












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

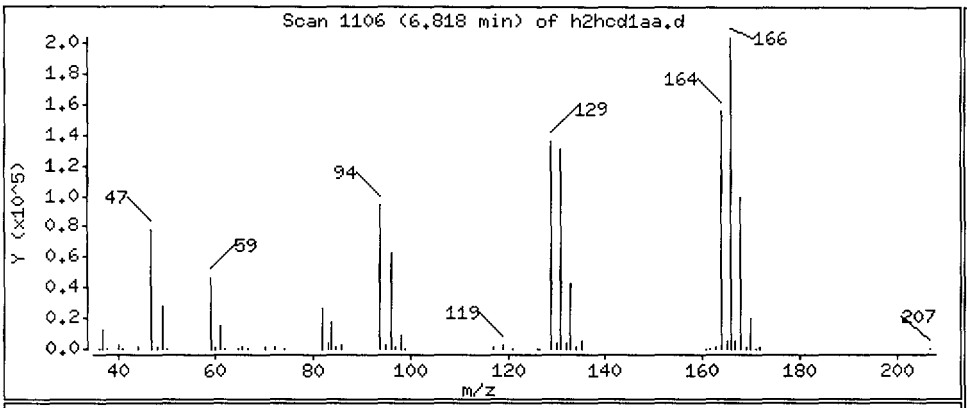
Operator: 22980

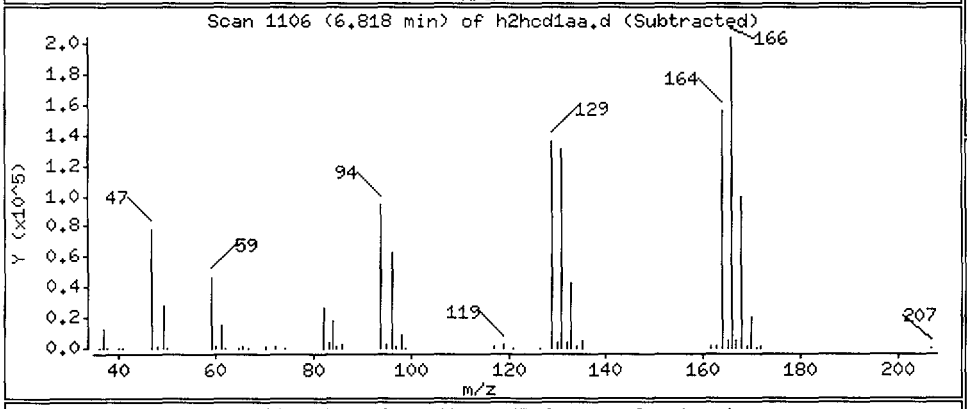
Column phase: J+W 624

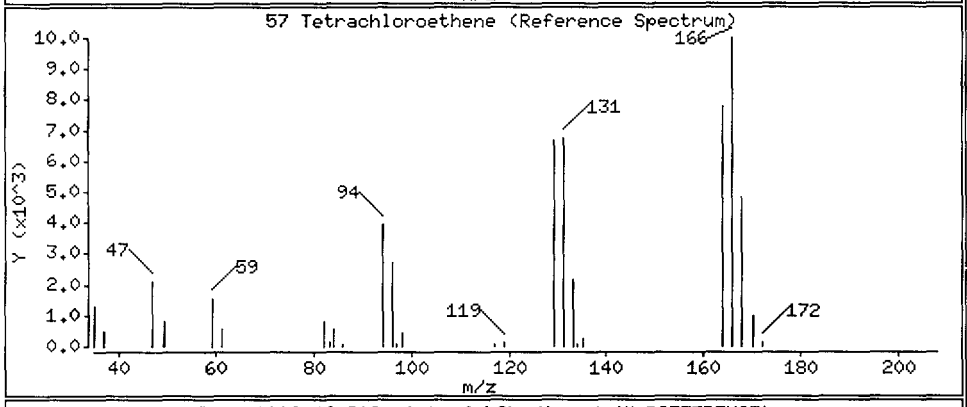
Column diameter: 0.18

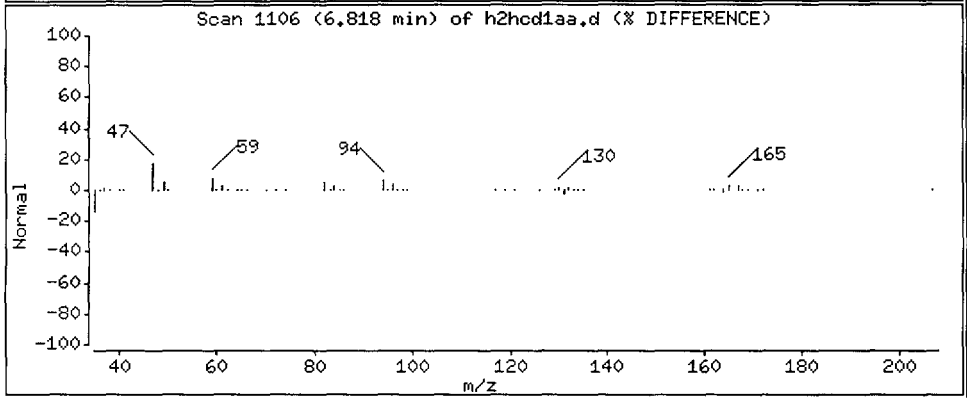
57 Tetrachloroethene

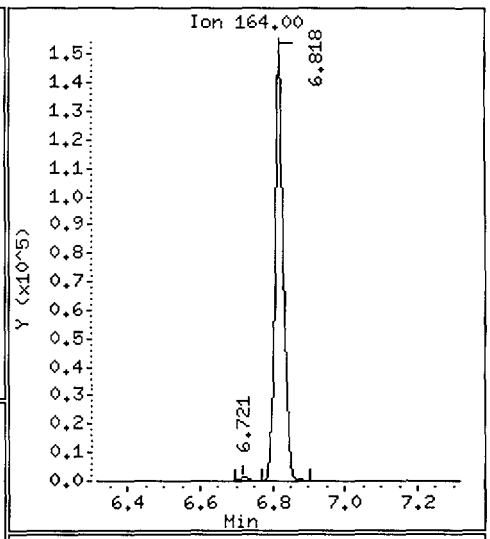
Concentration: 0.22590 ug

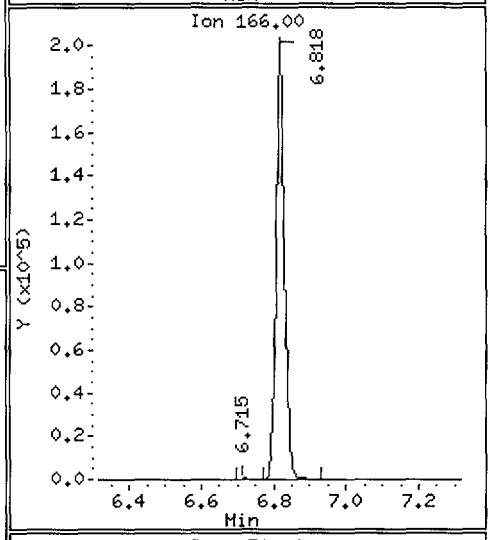


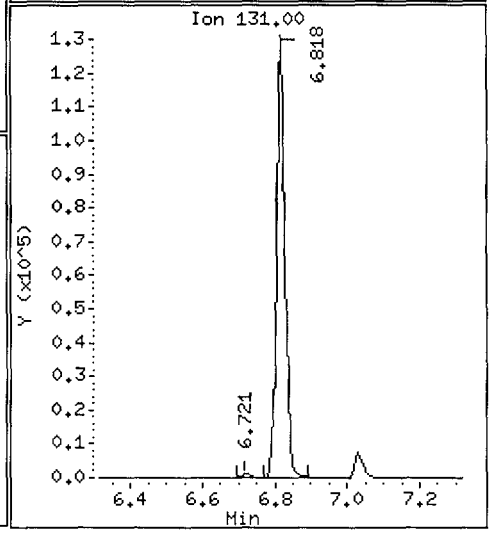












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

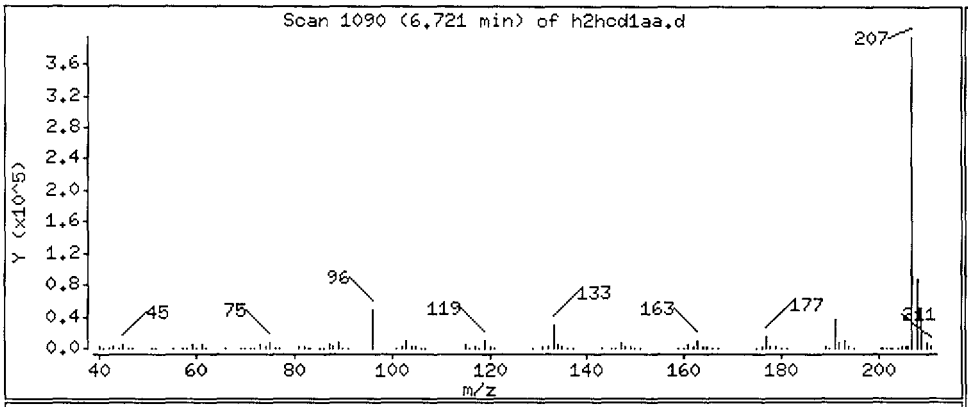
Operator: 22980

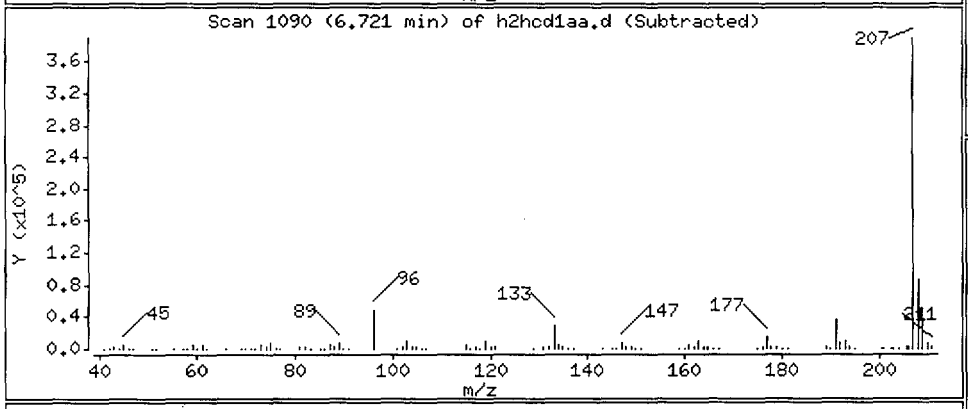
Column phase: J+W 624

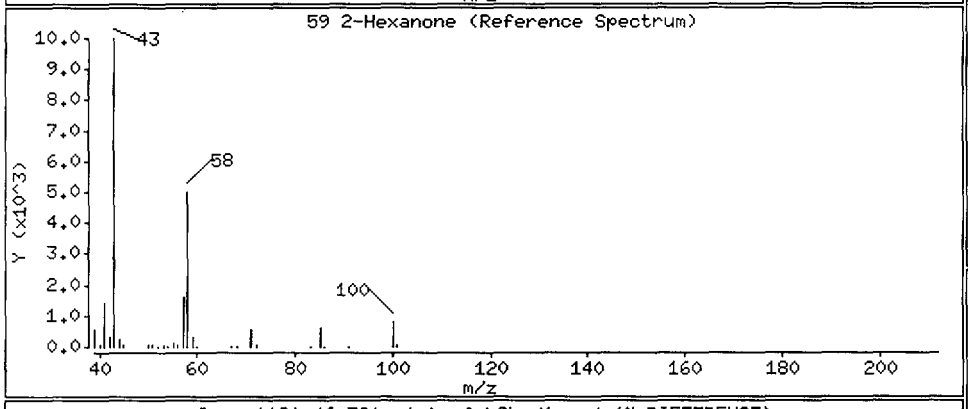
Column diameter: 0.18

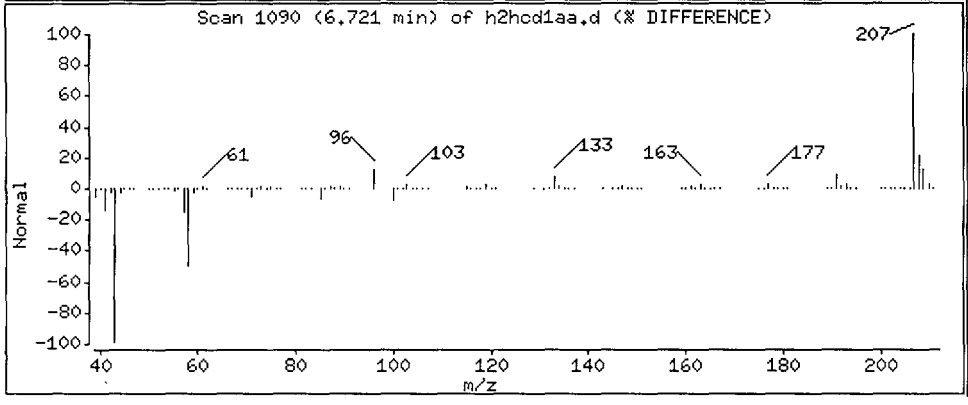
59 2-Hexanone

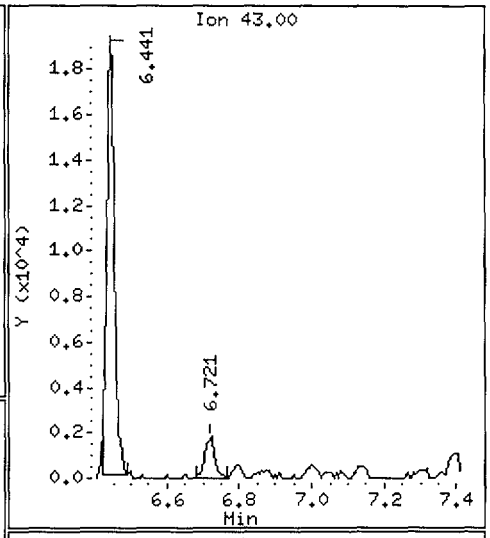
Concentration: 0.020026 ug

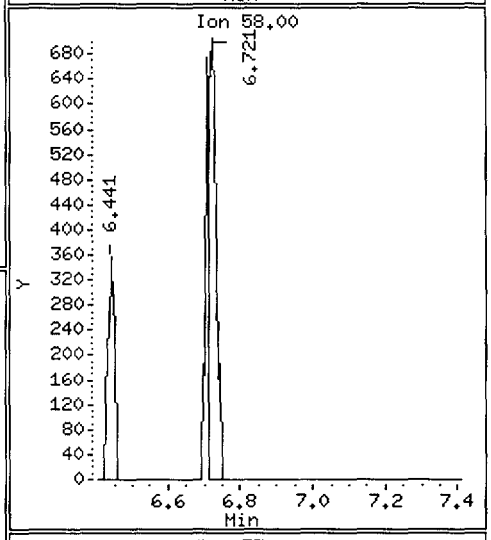


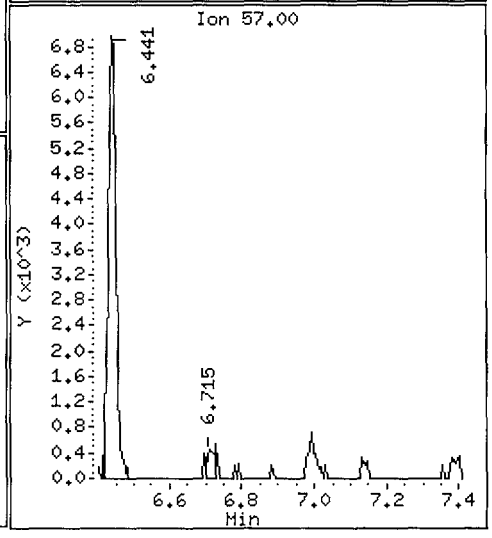












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

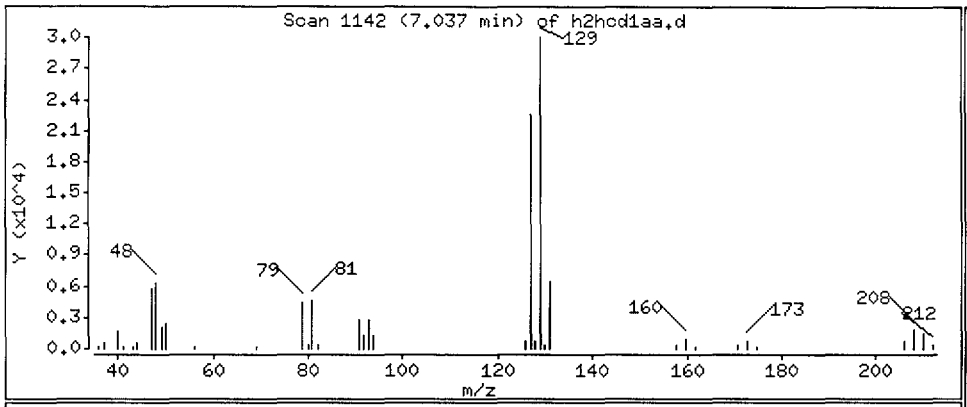
Operator: 22980

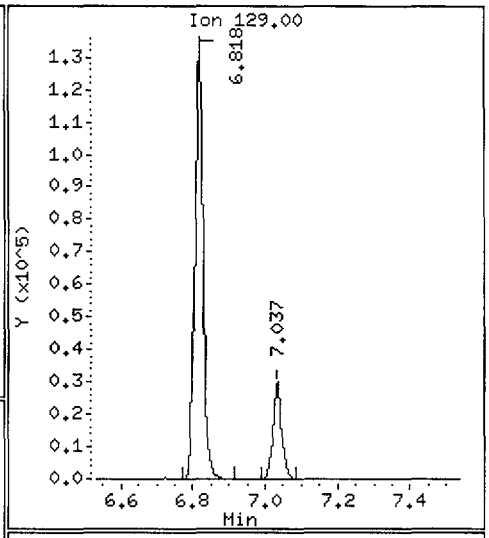
Column phase: J+W 624

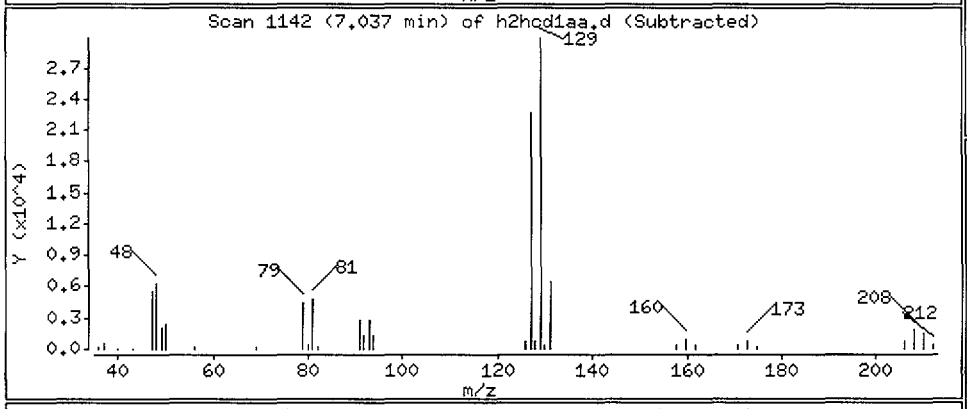
Column diameter: 0.18

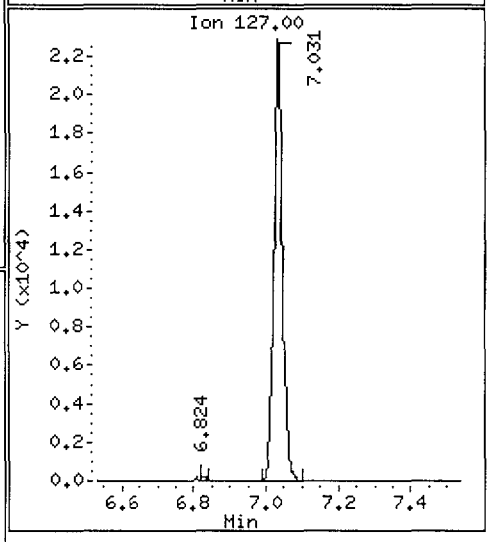
60 Chlorodibromomethane

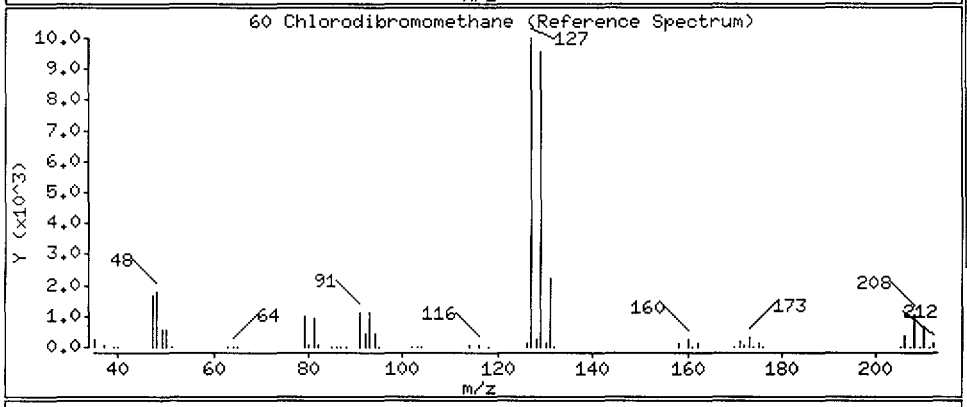
Concentration: 0.099777 ug

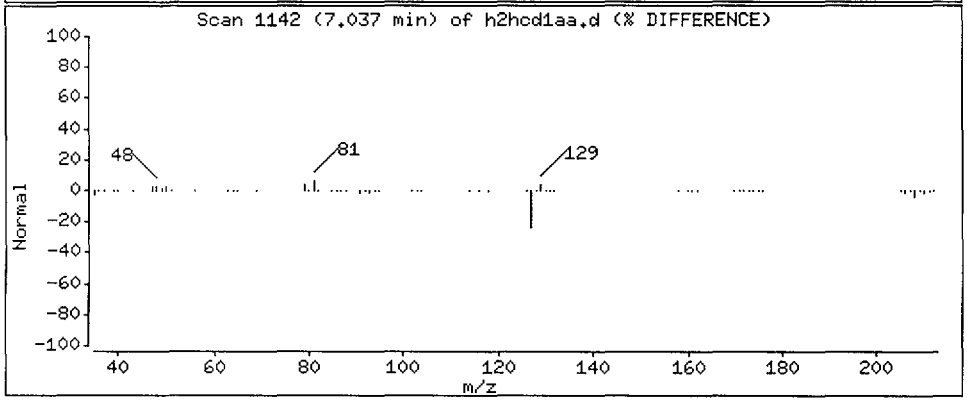












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

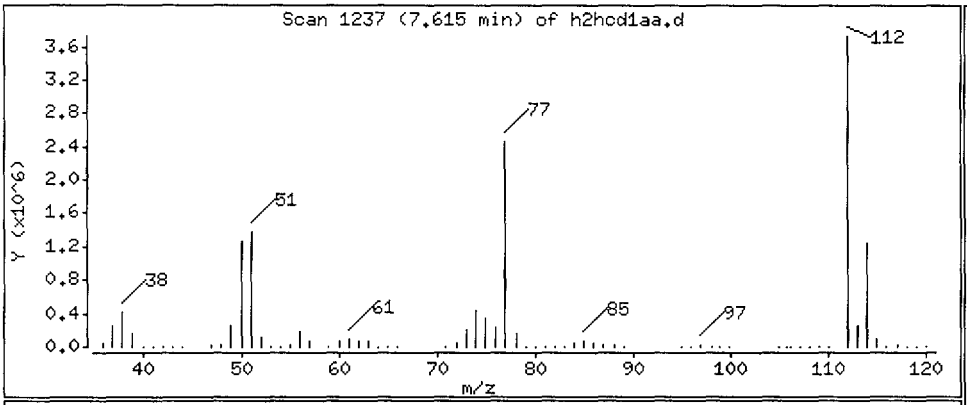
Operator: 22980

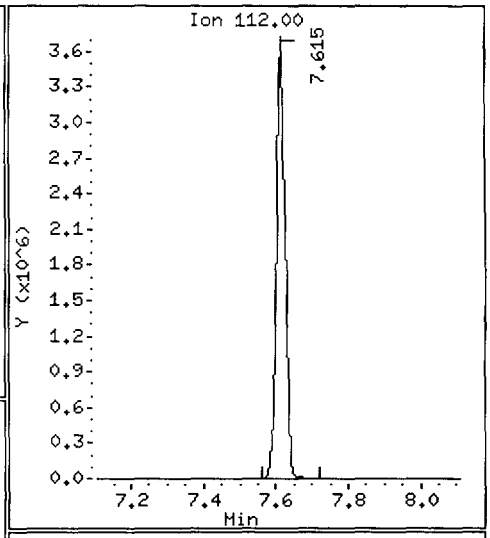
Column phase: J+W 624

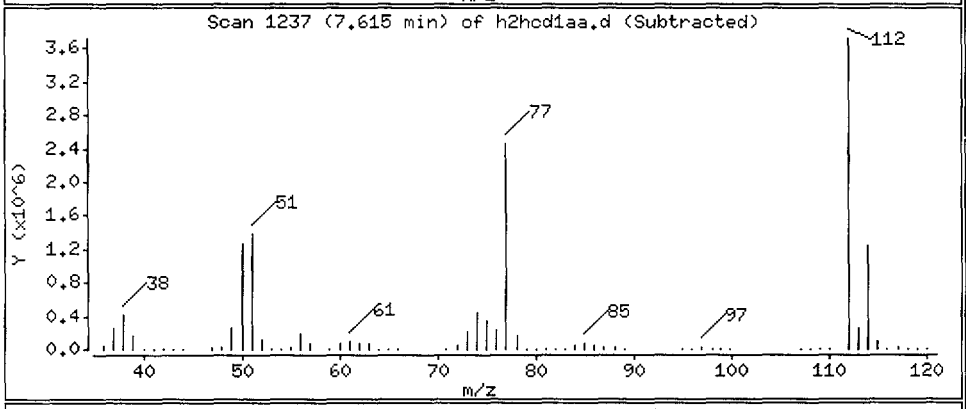
Column diameter: 0.18

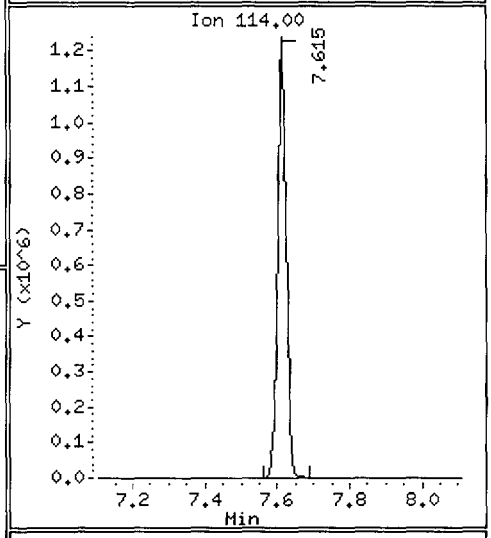
62 Chlorobenzene (spcc)

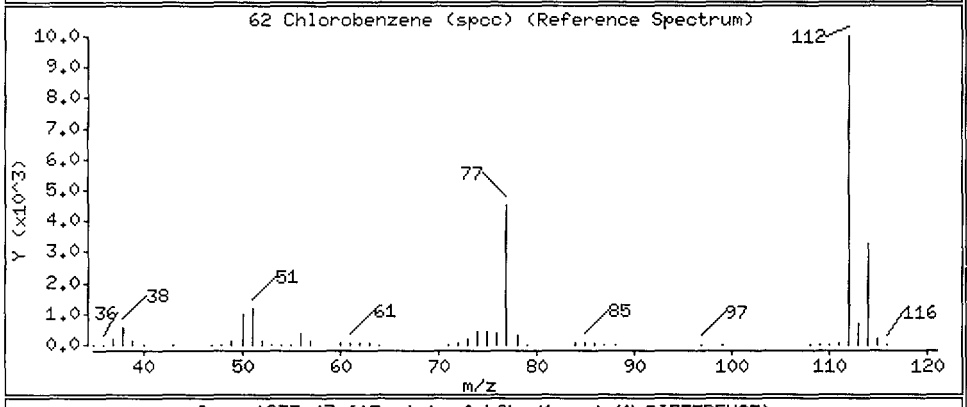
Concentration: 2.3204 ug

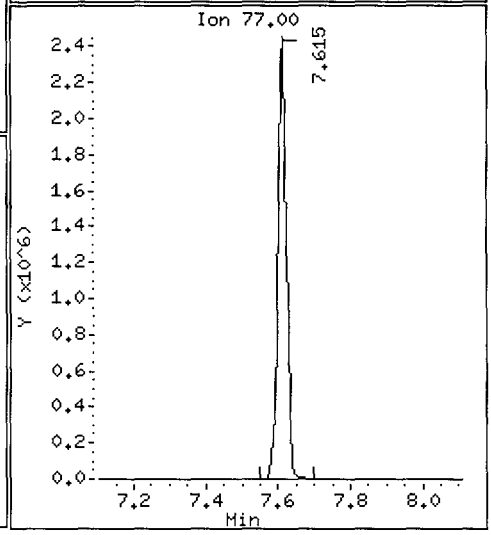


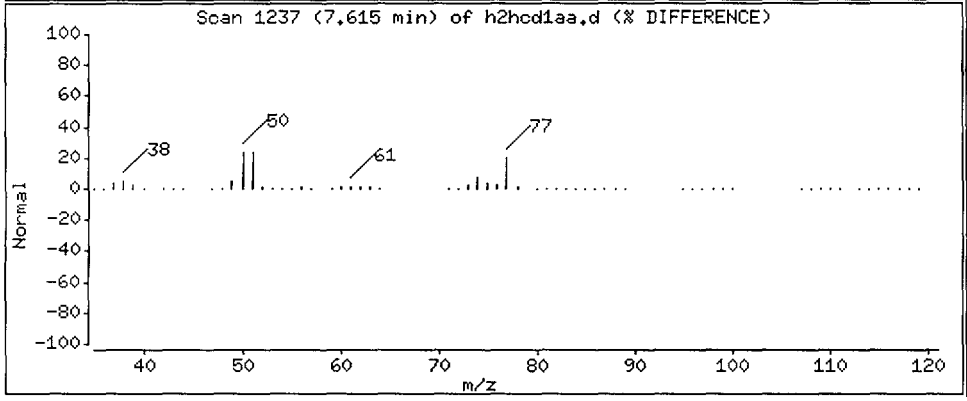












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

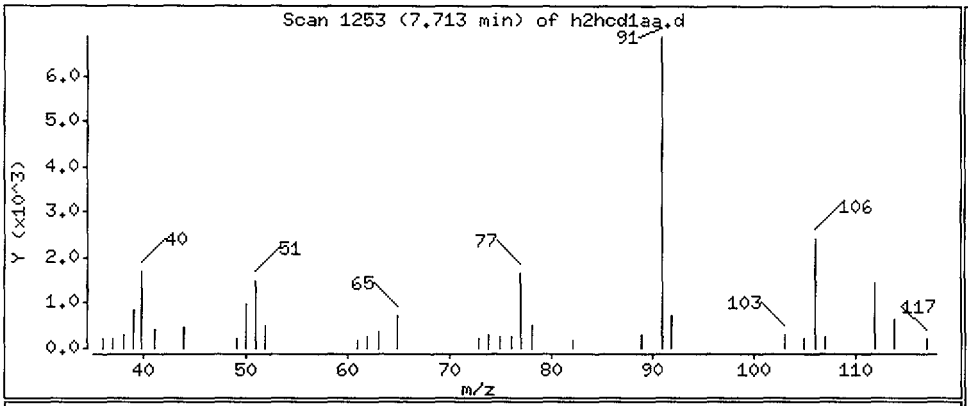
Operator: 22980

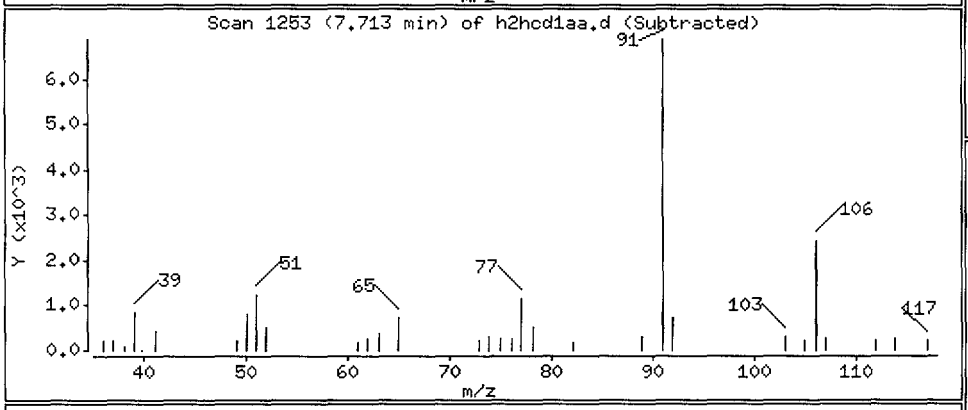
Column phase: J+W 624

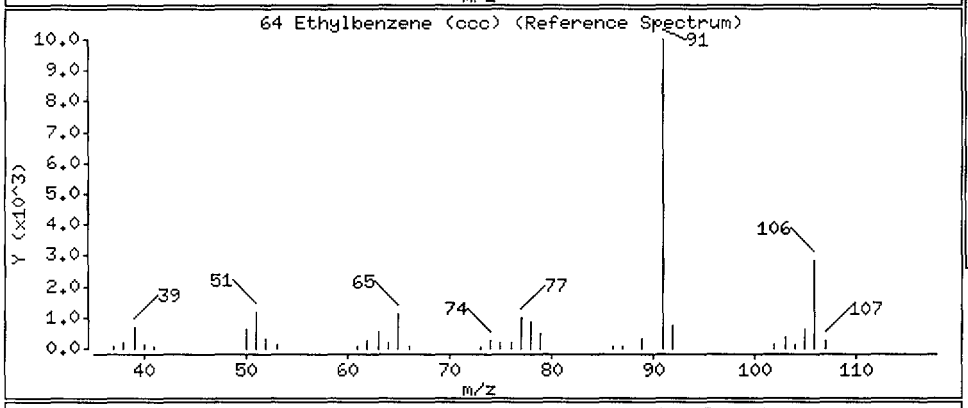
Column diameter: 0.18

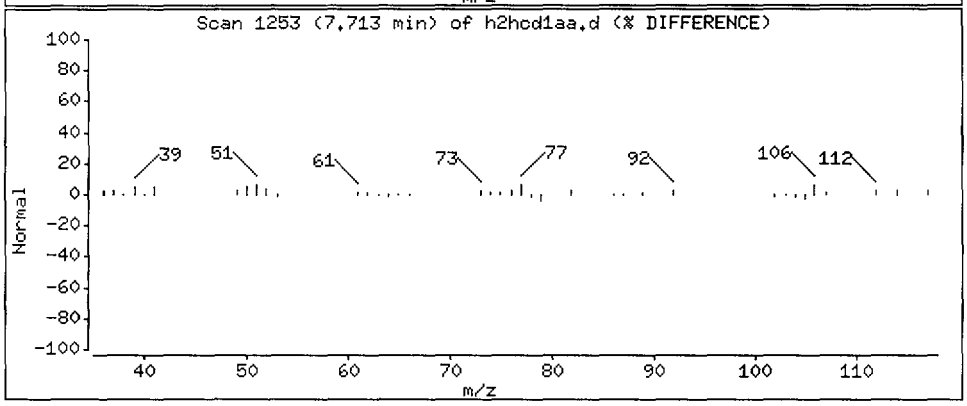
64 Ethylbenzene (ccc)

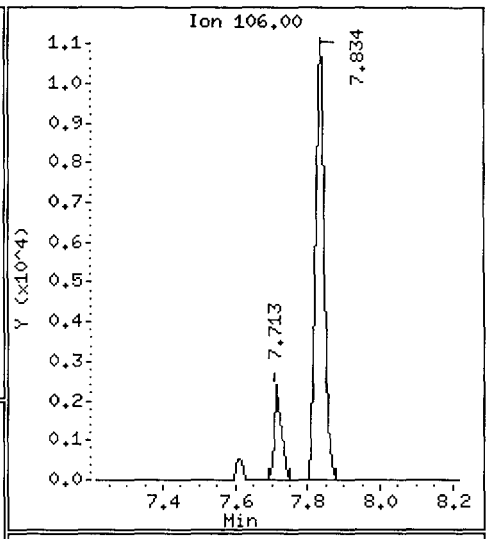
Concentration: 0.0018334 ug

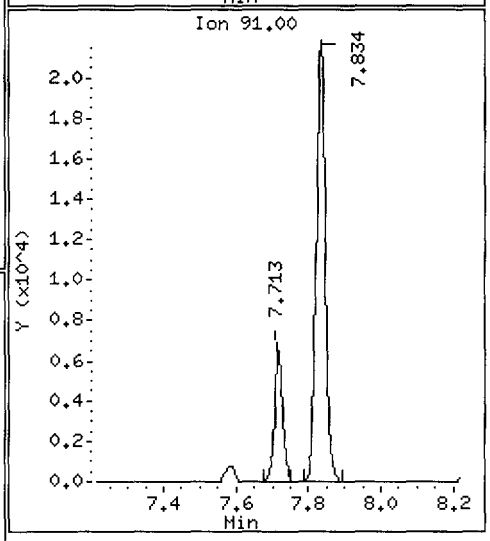












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

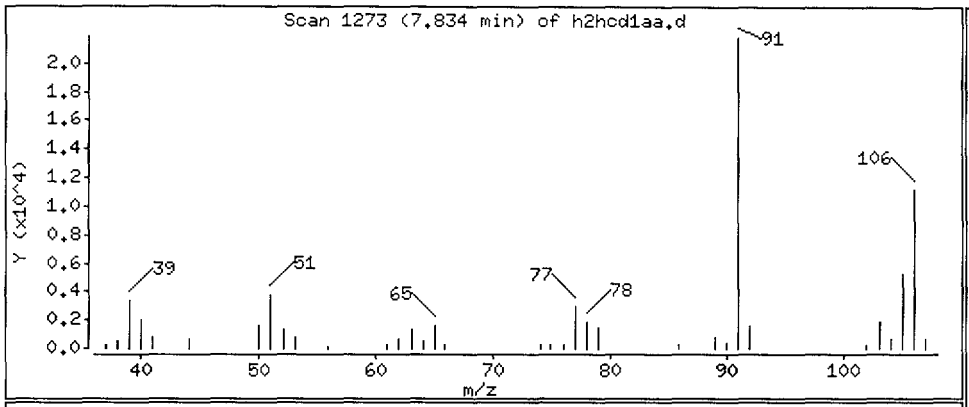
Operator: 22980

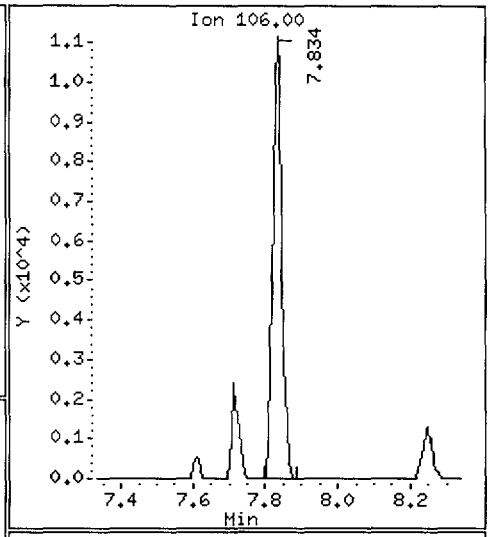
Column phase: J+W 624

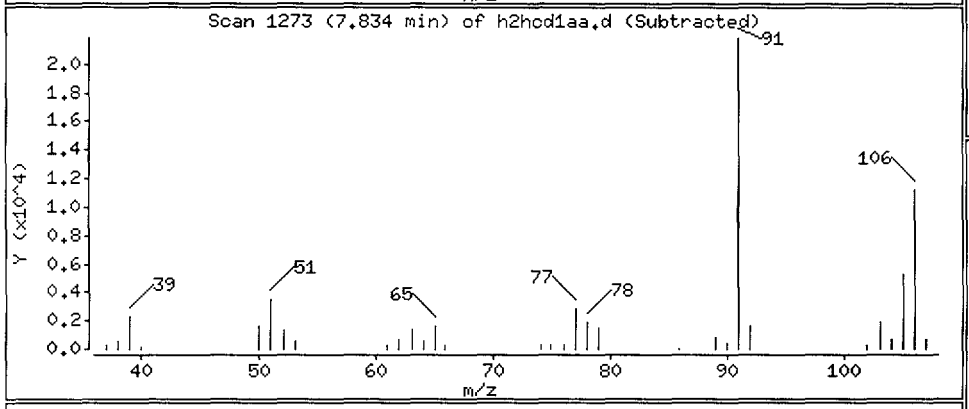
Column diameter: 0.18

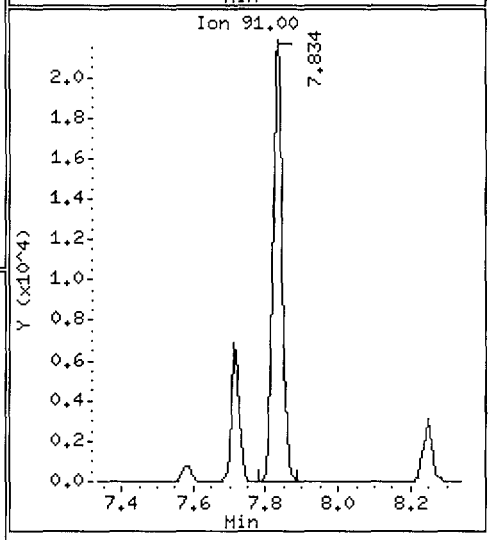
65 m&p-Xylene

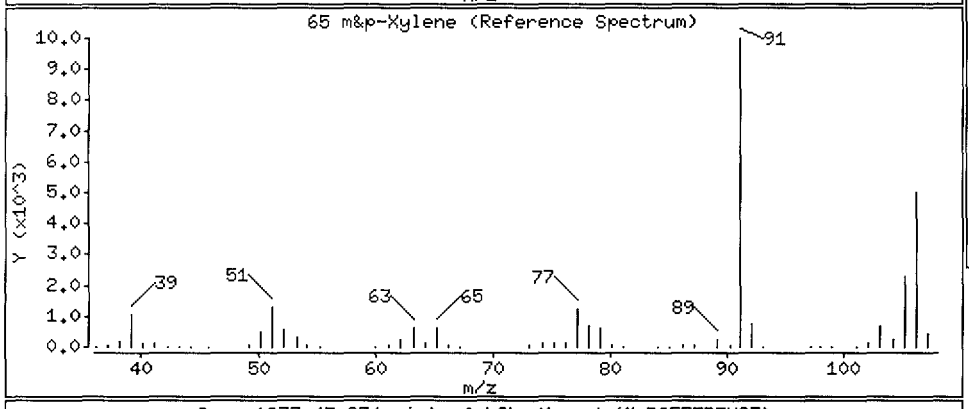
Concentration: 0.0091182 ug

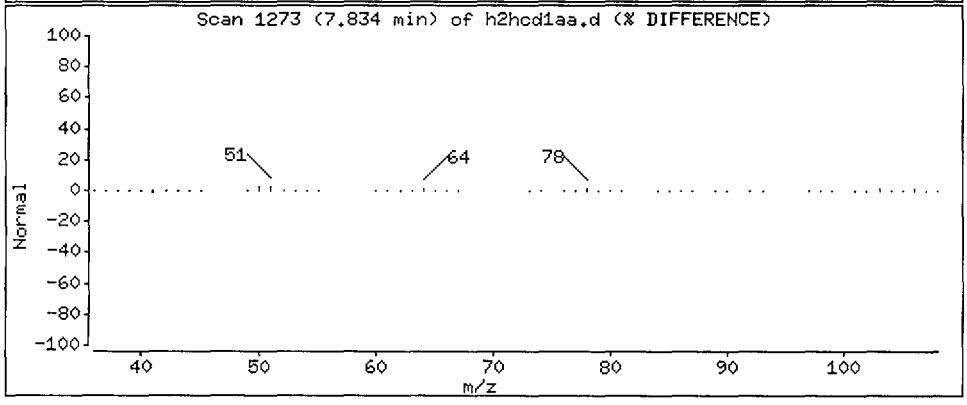












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

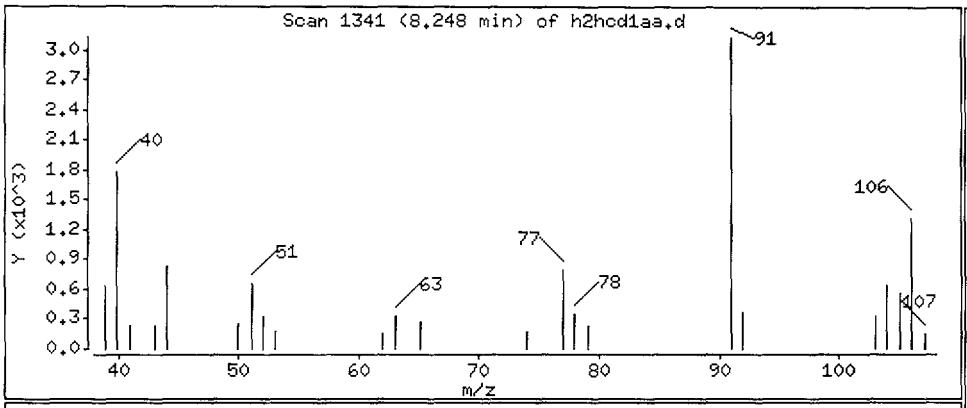
Operator: 22980

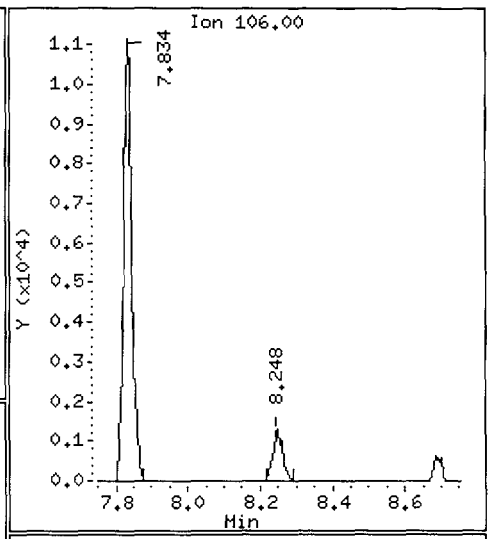
Column phase: J+W 624

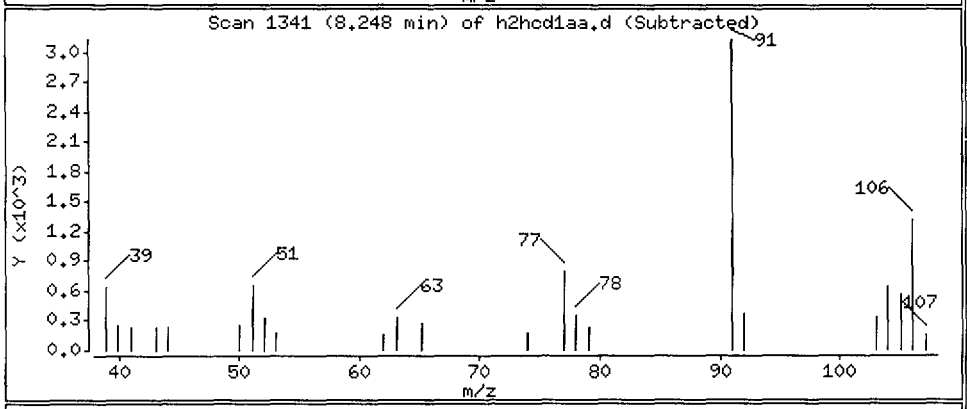
Column diameter: 0.18

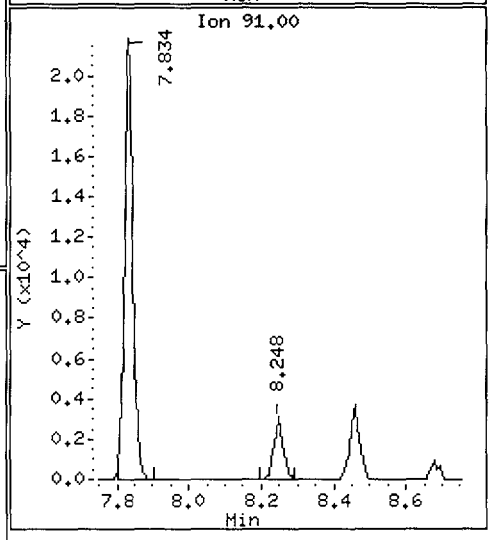
66 o-Xylene

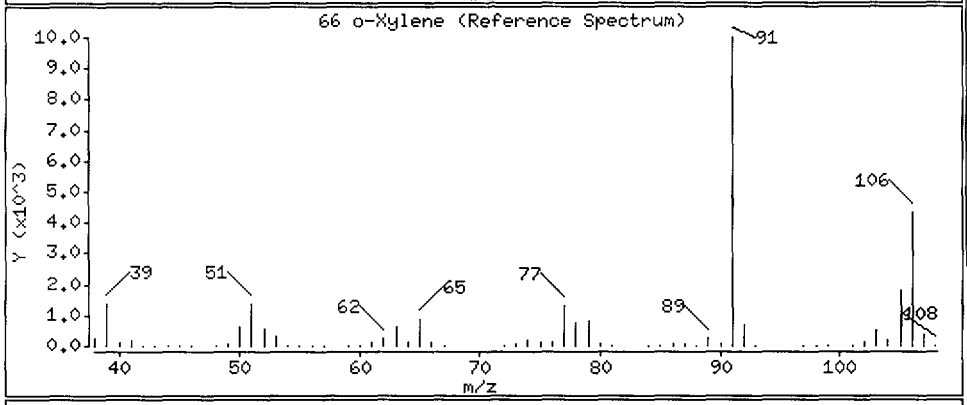
Concentration: 0.0013285 ug

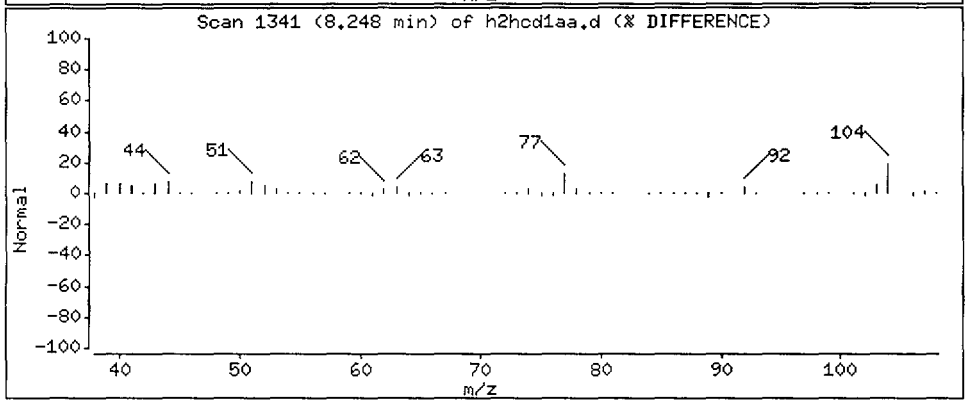












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

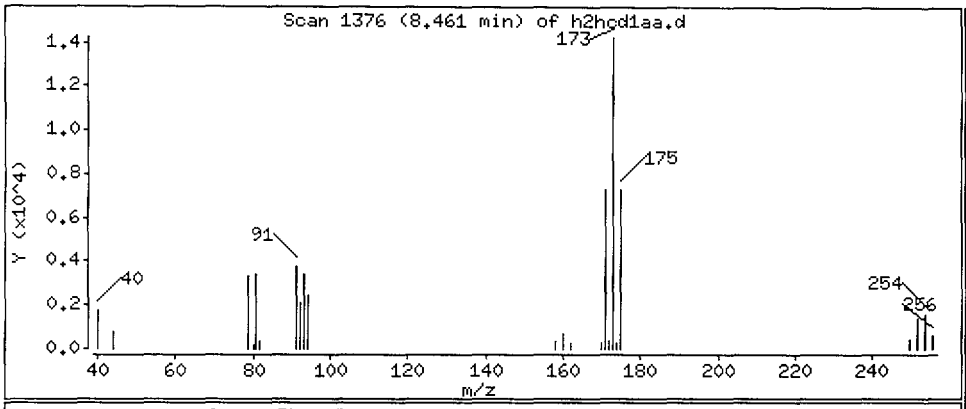
Operator: 22980

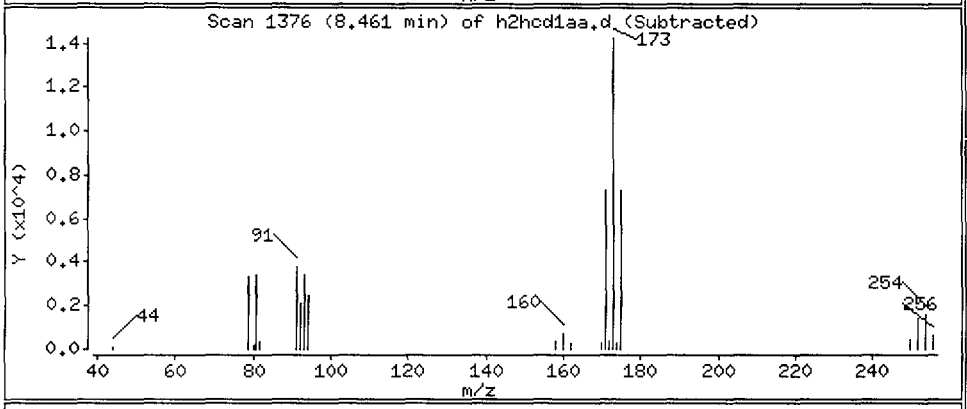
Column phase: J+W 624

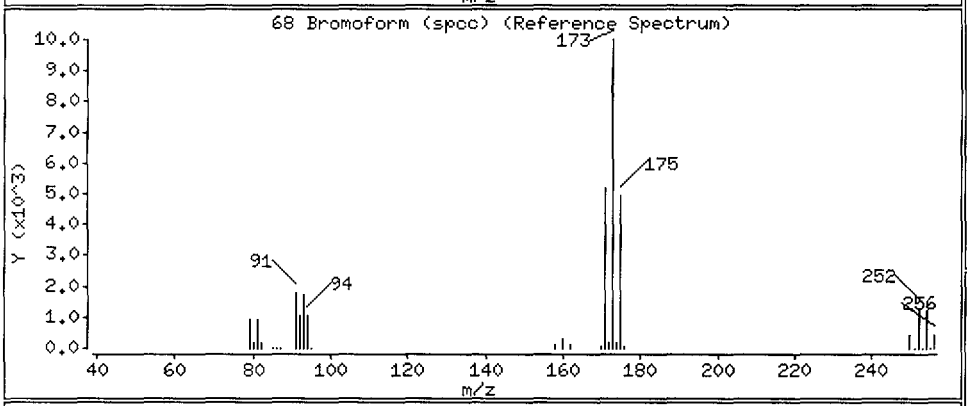
Column diameter: 0.18

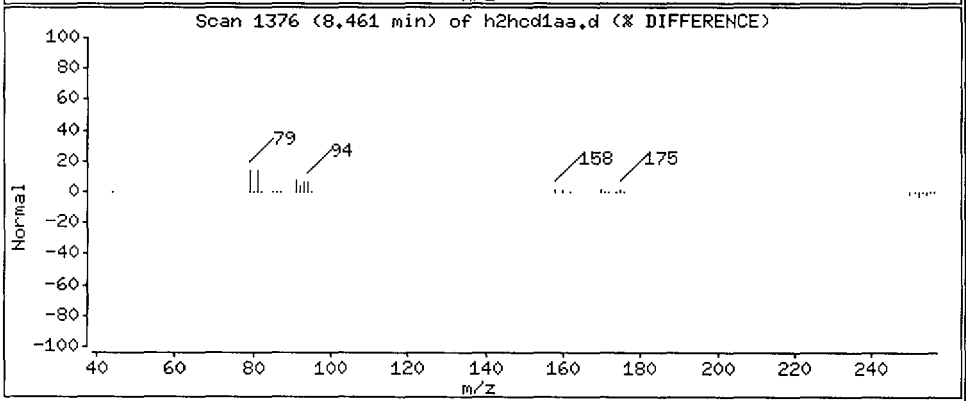
68 Bromoform (spcc)

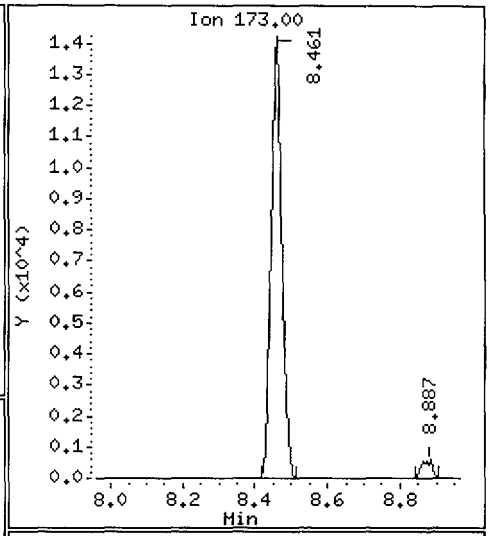
Concentration: 0.11946 ug

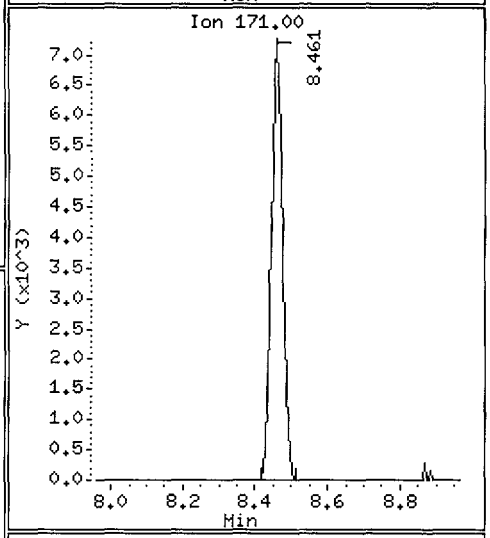


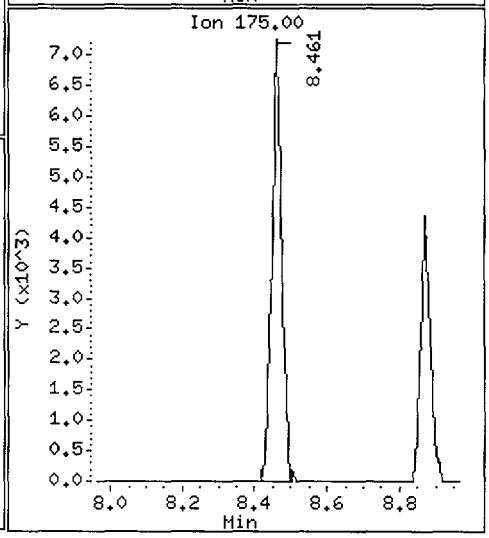












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

Operator: 22980

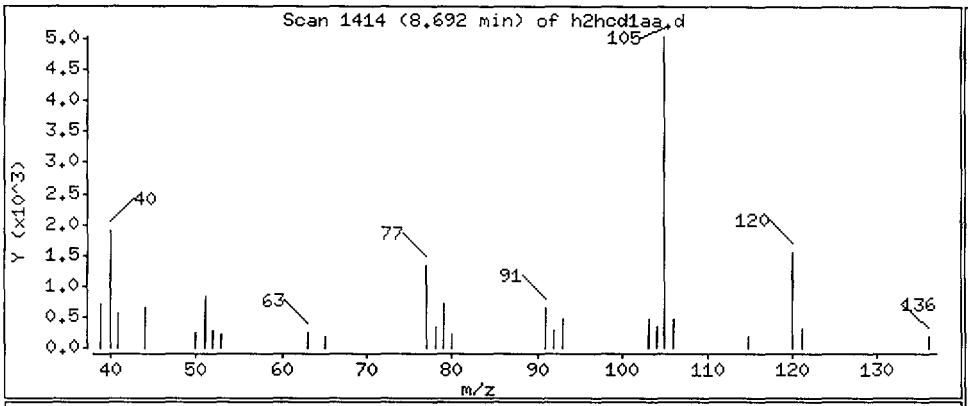
Column phase: J+W 624

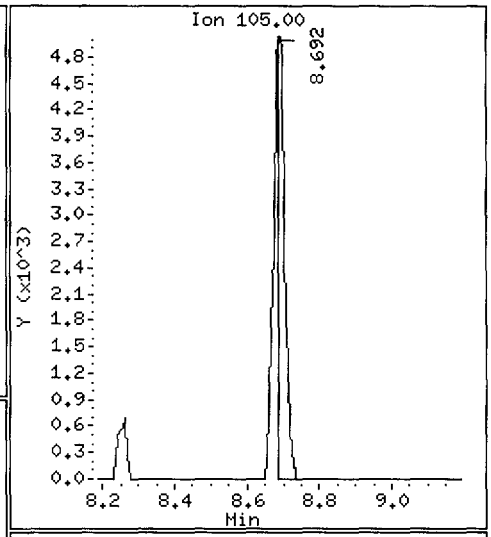
Column diameter: 0.18

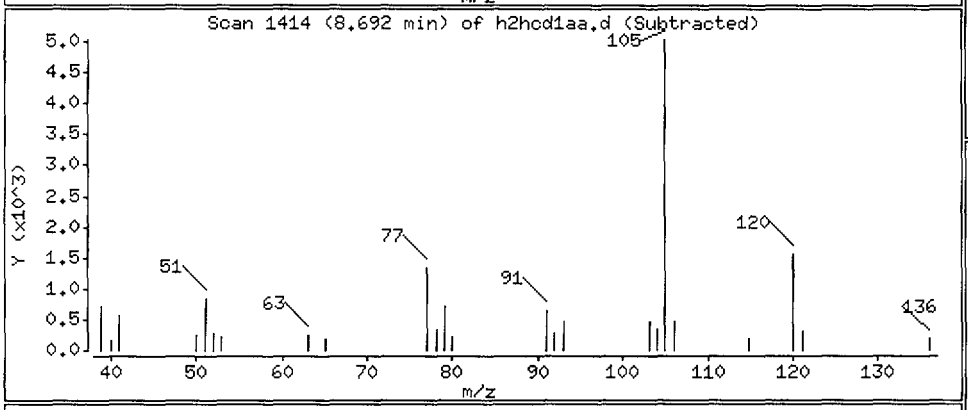
69 Isopropylbenzene

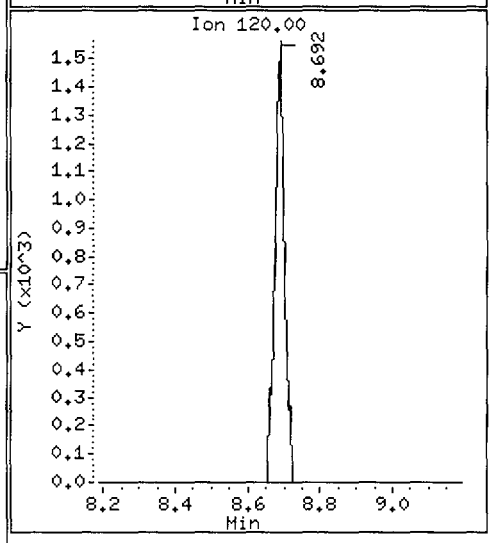
Concentration: 0.0012382 ug

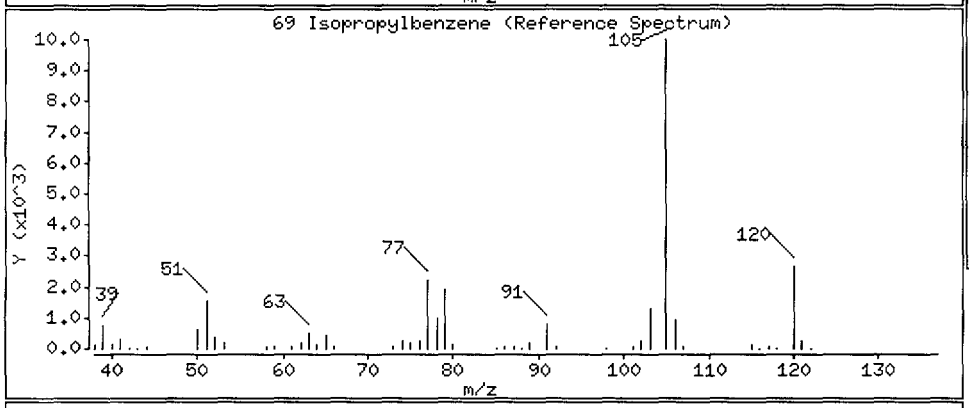
<LMDC Integrated 4/19/06 H

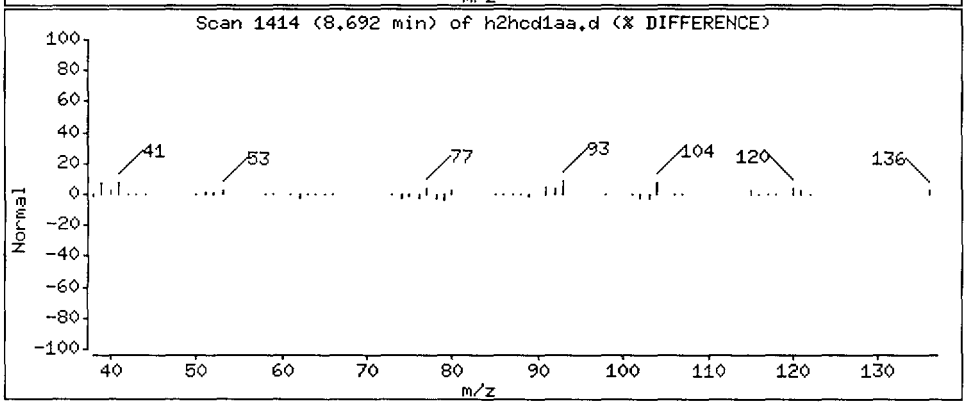












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

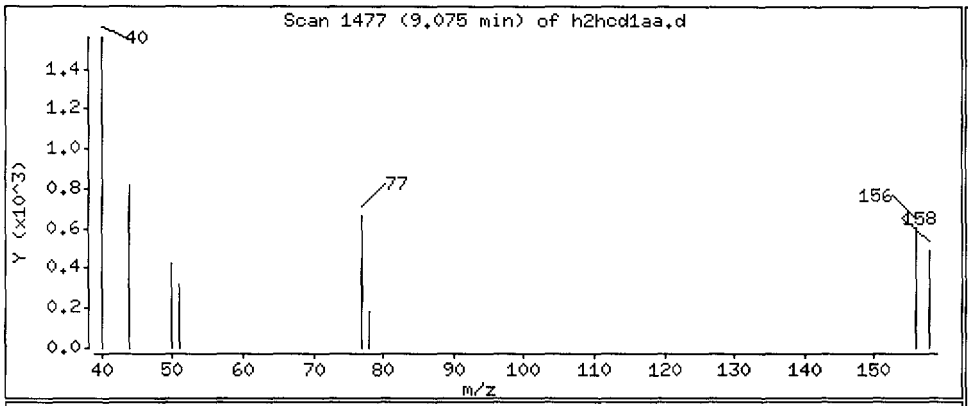
Operator: 22980

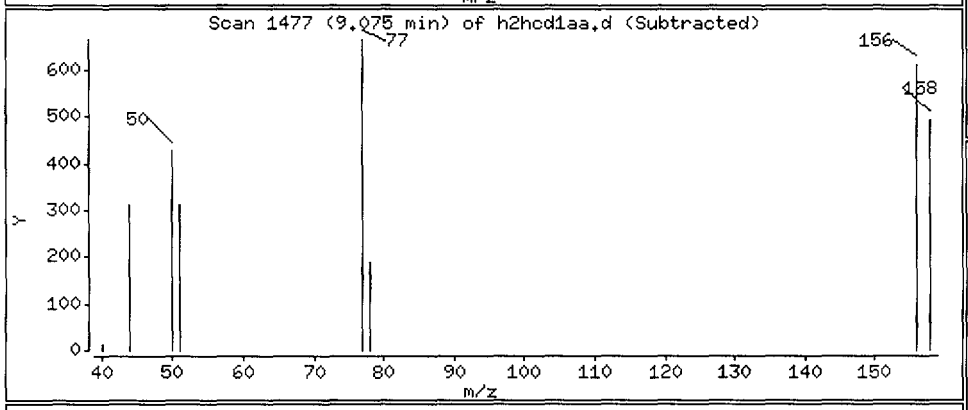
Column phase: J+W 624

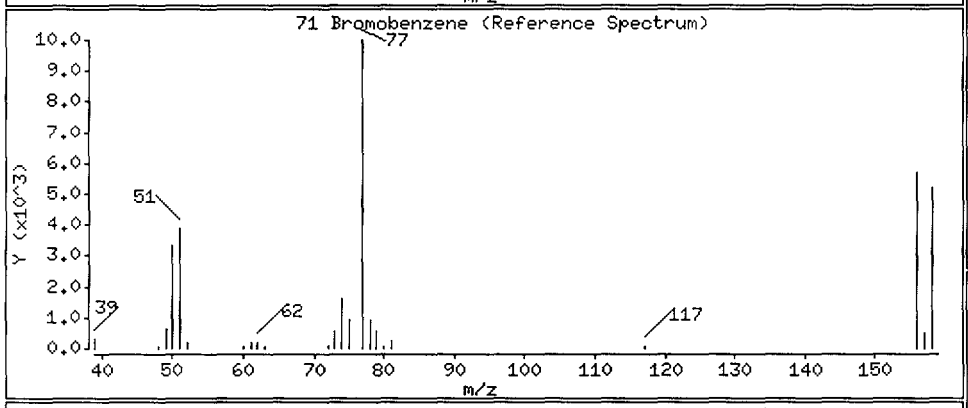
Column diameter: 0.18

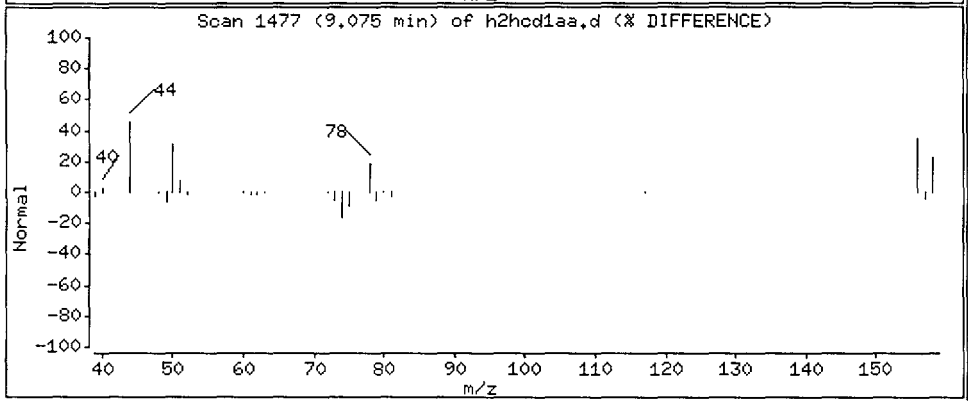
71 Bromobenzene

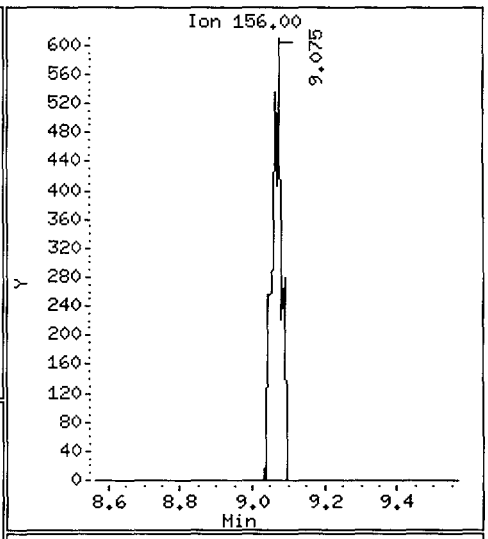
Concentration: 0.0012829 ug

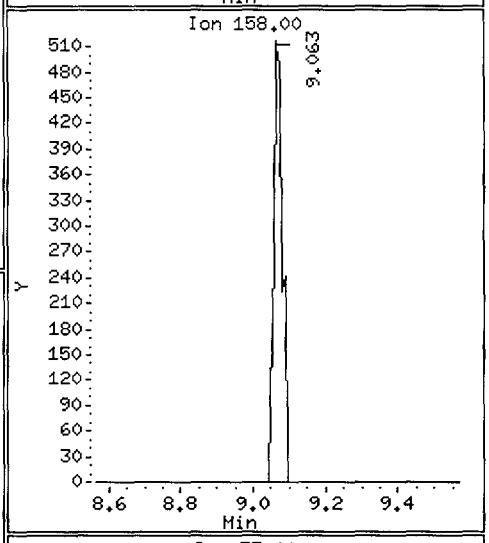


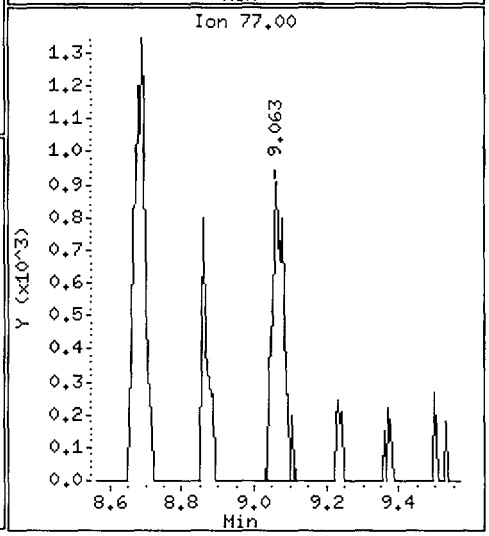












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

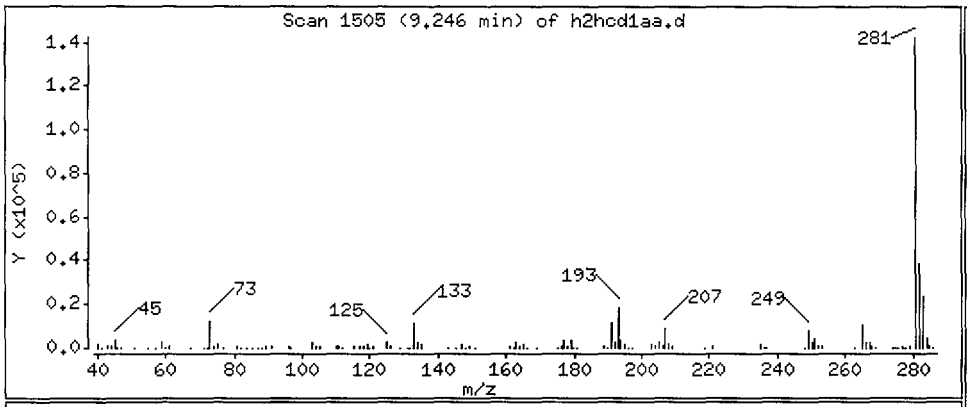
Operator: 22980

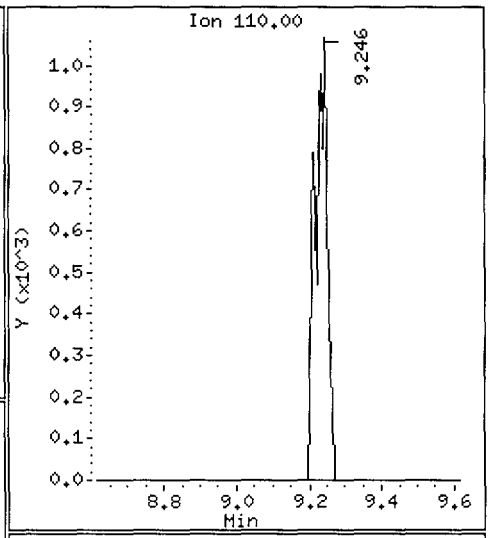
Column phase: J+W 624

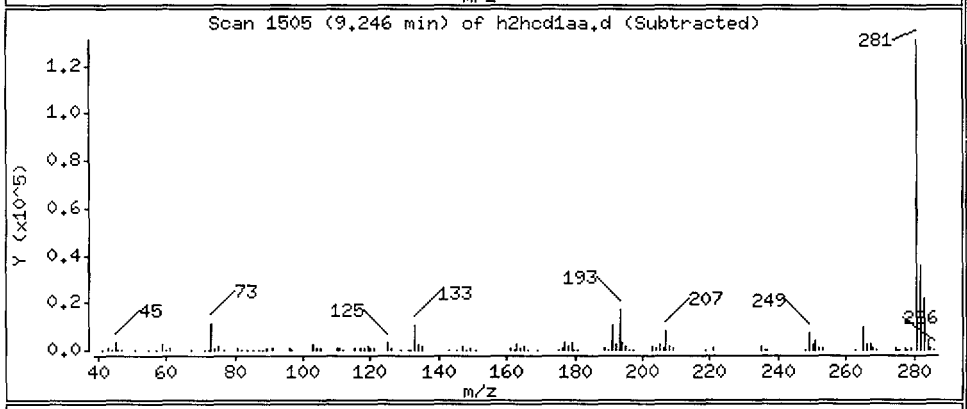
Column diameter: 0.18

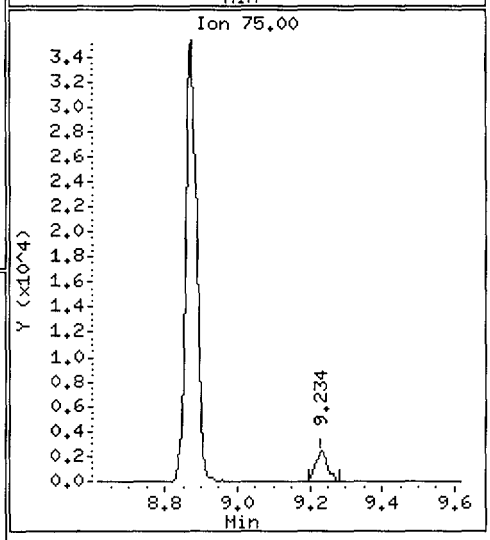
73 1,2,3-Trichloropropane

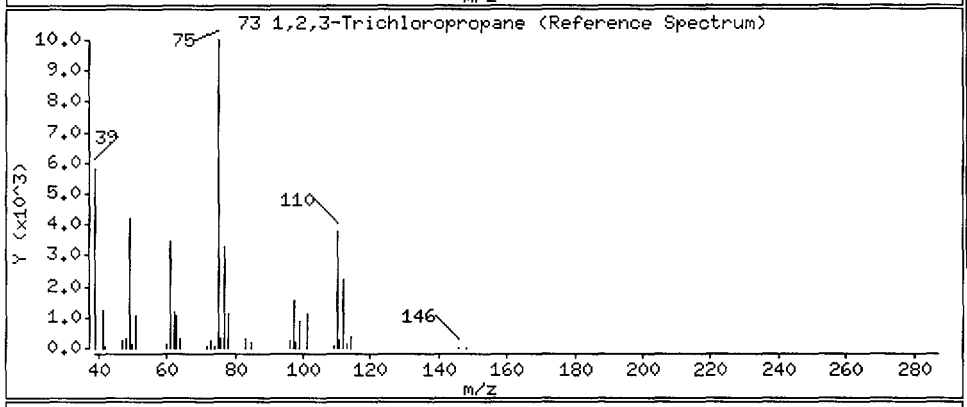
Concentration: 0.029366 ug

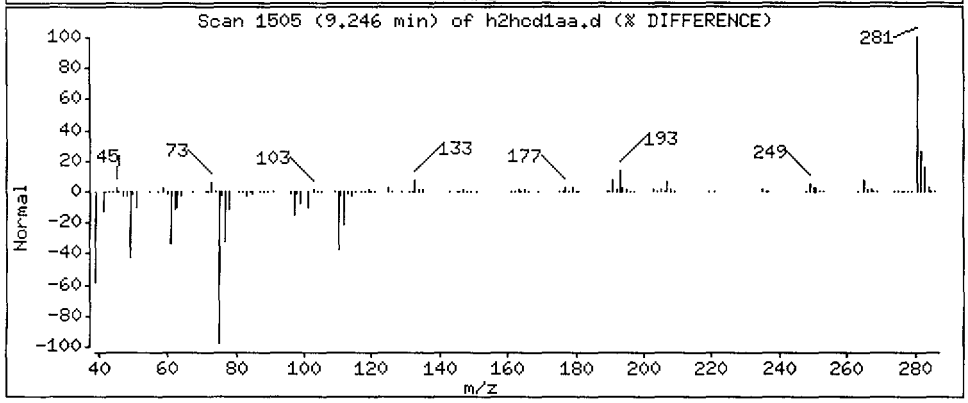












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

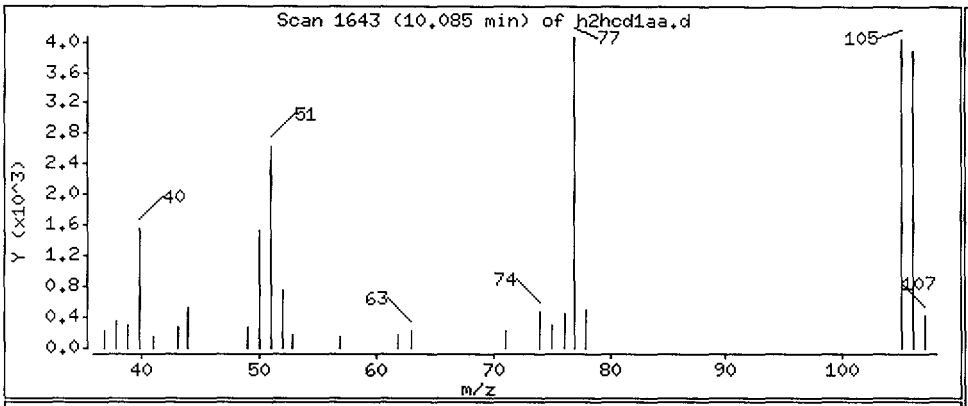
Operator: 22980

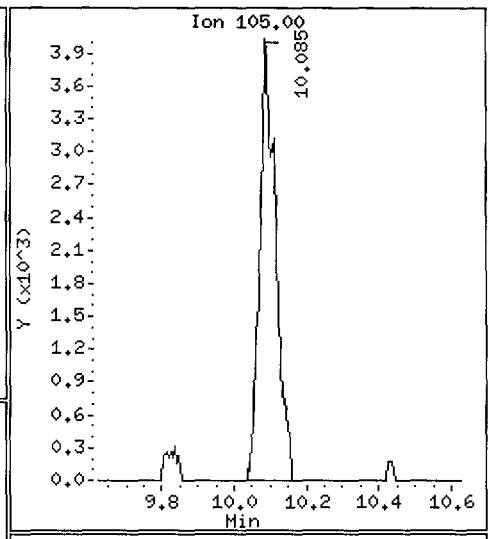
Column phase: J+W 624

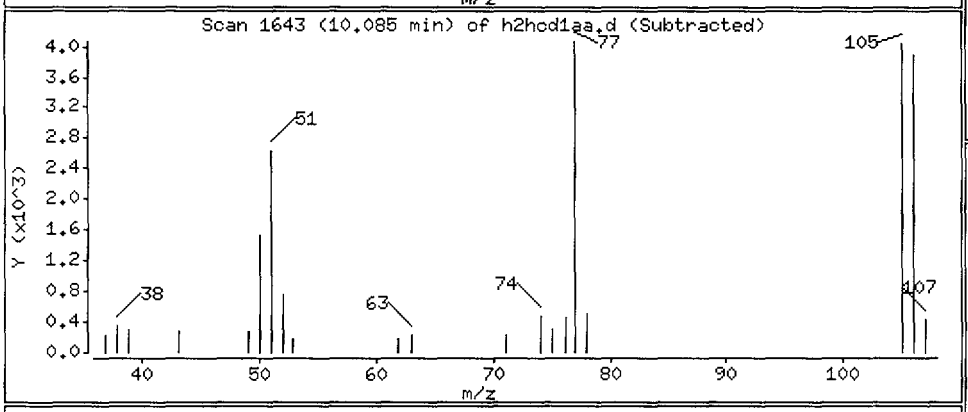
Column diameter: 0.18

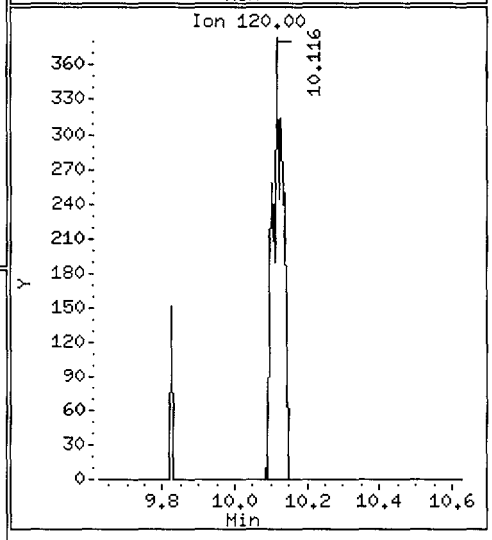
80 1,2,4-Trimethylbenzene

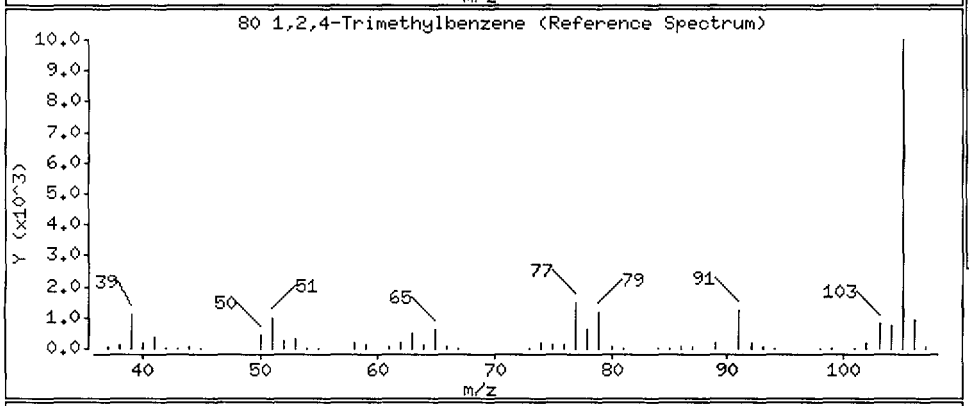
Concentration: 0.0040654 ug

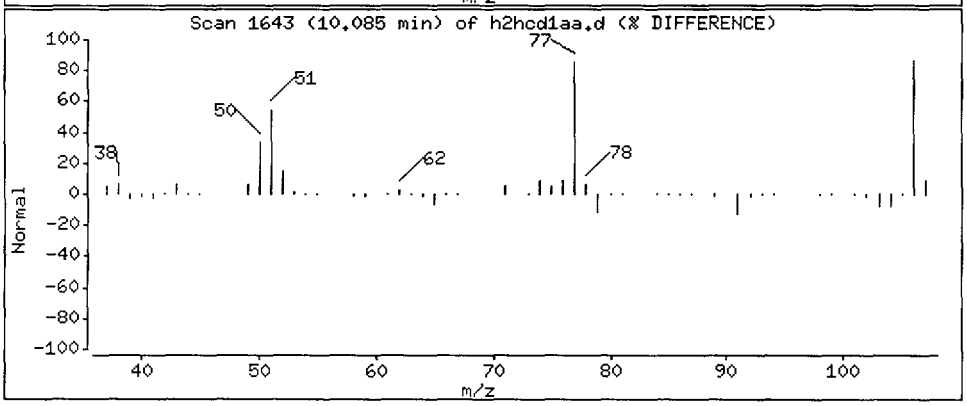












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

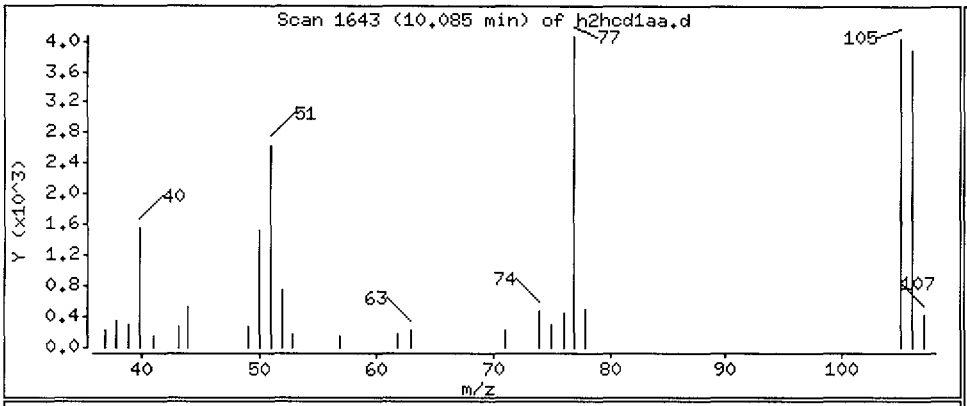
Operator: 22980

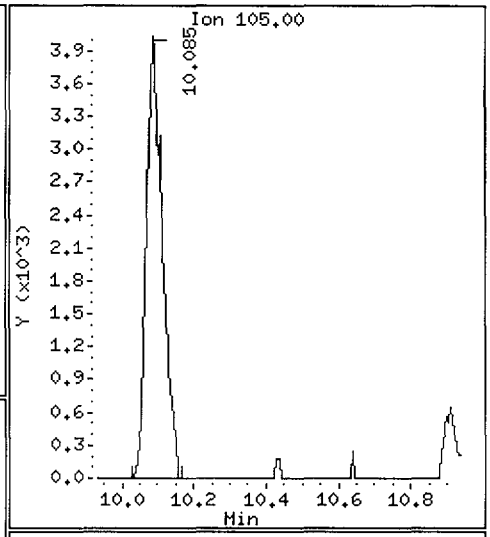
Column phase: J+W 624

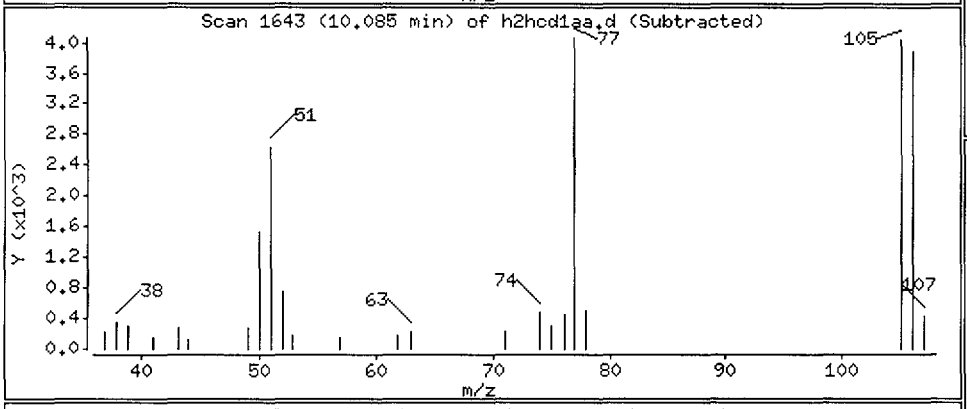
Column diameter: 0.18

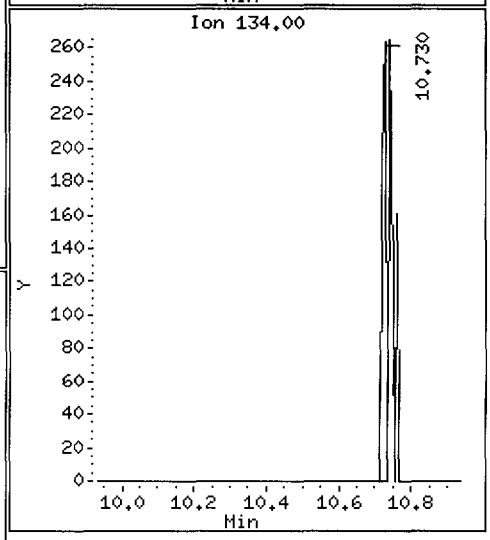
81 sec-Butylbenzene

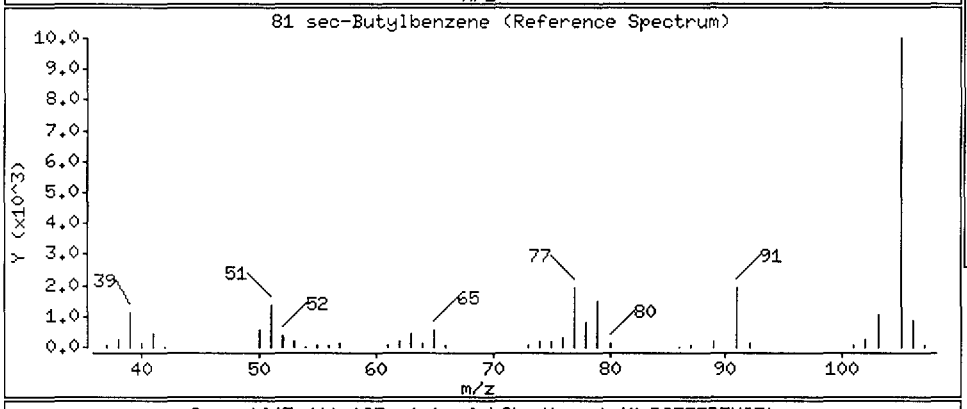
Concentration: 0.0023015 ug

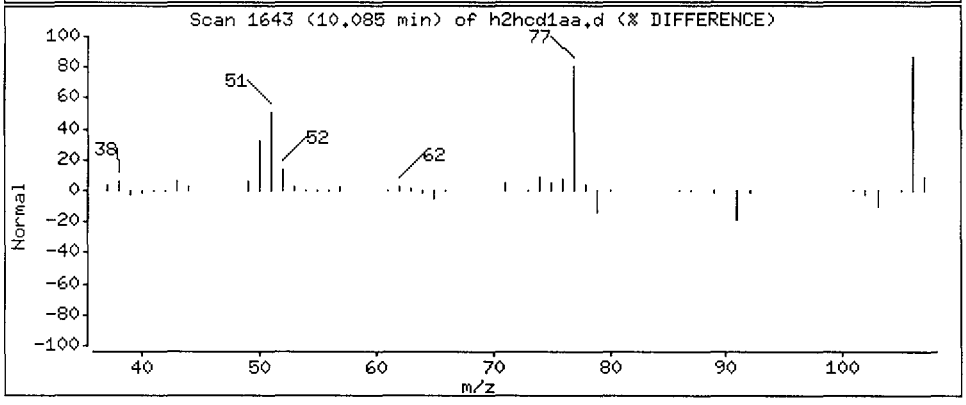












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

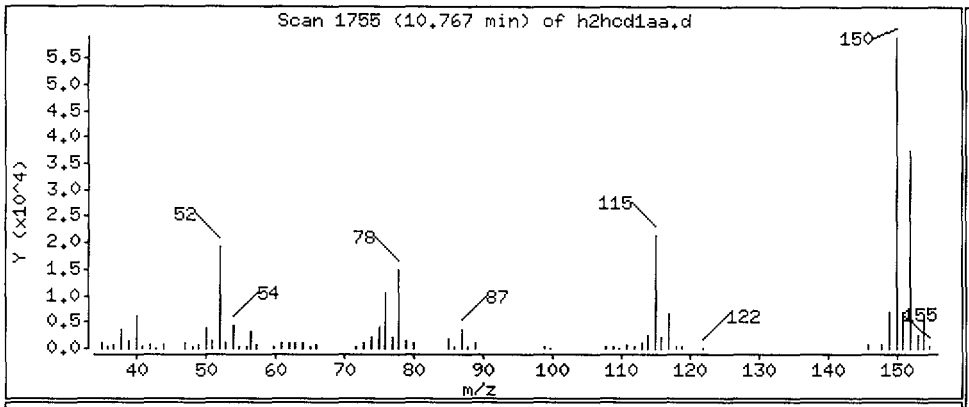
Operator: 22980

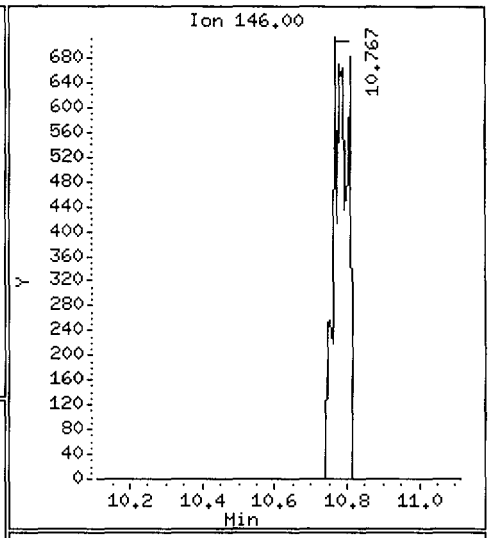
Column phase: J+W 624

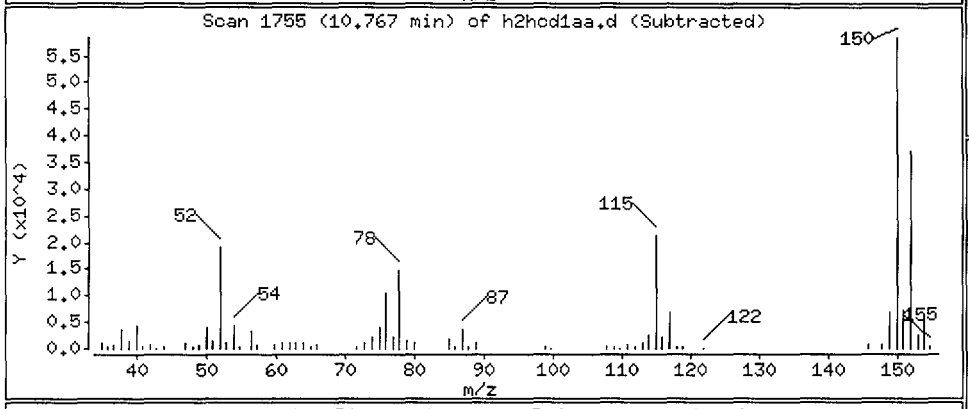
Column diameter: 0.18

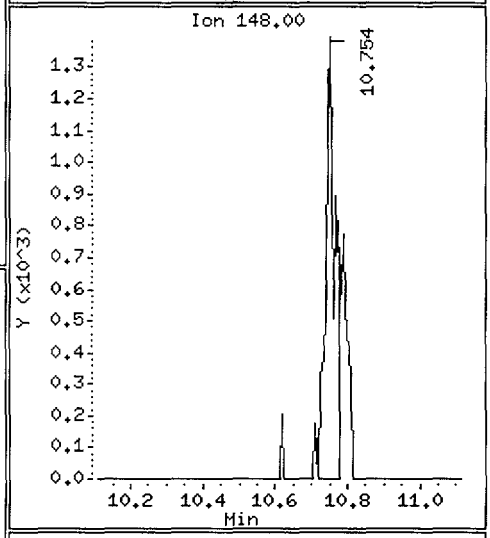
82 1,3-Dichlorobenzene

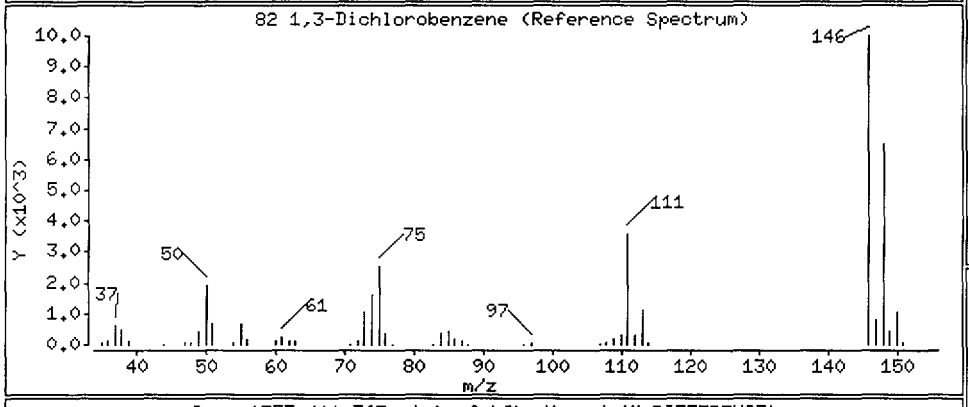
Concentration: 0.0012521 ug

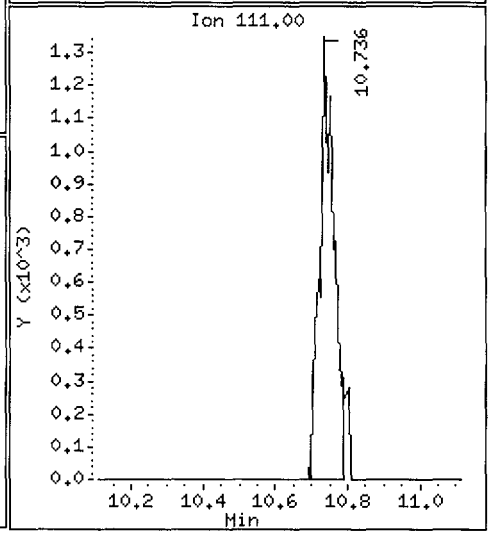


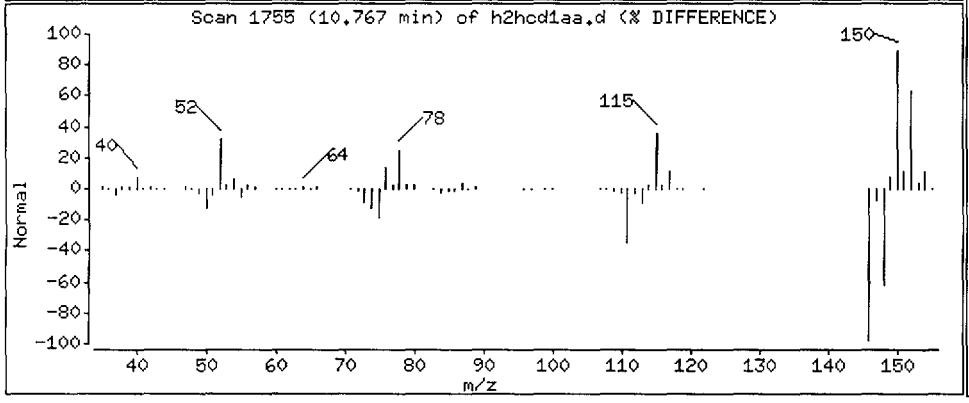












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

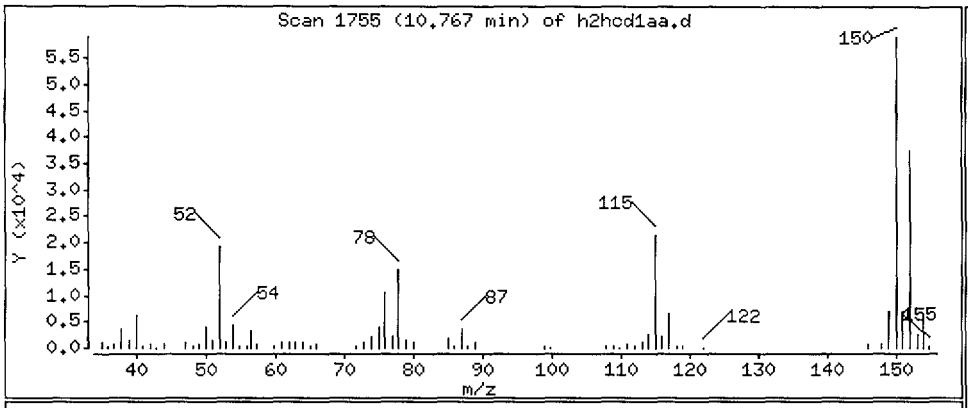
Operator: 22980

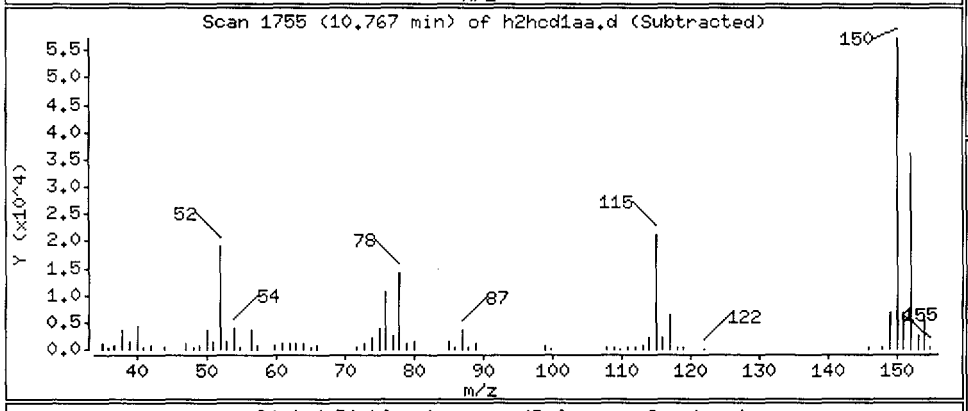
Column phase: J+W 624

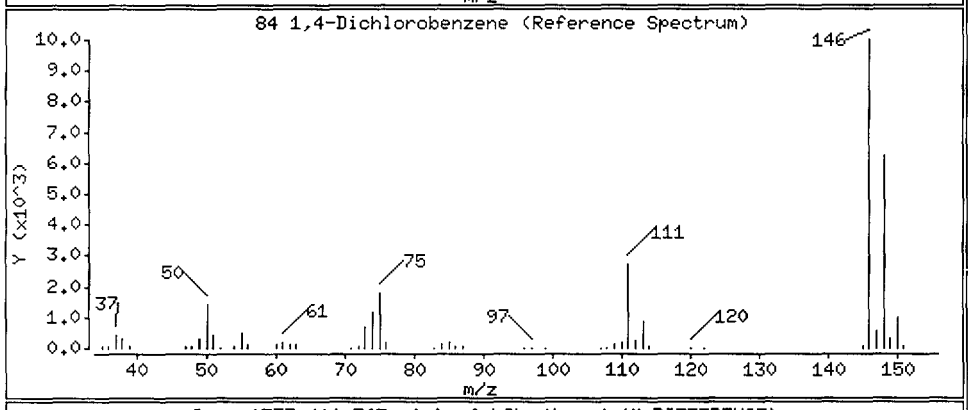
Column diameter: 0.18

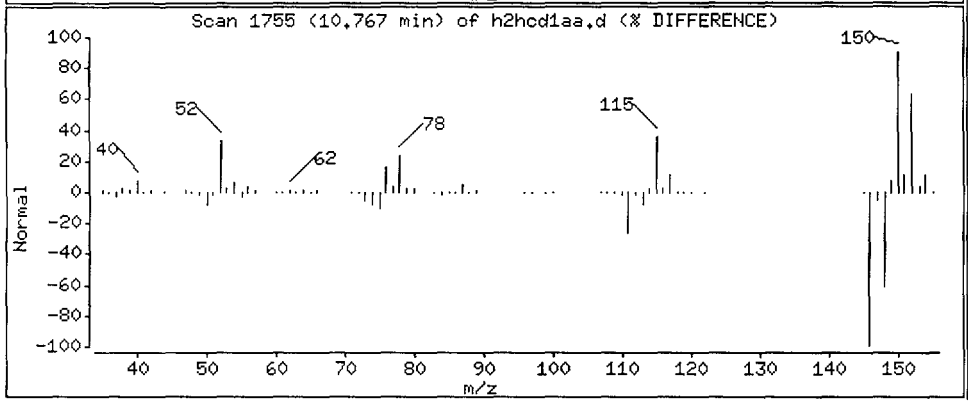
84 1,4-Dichlorobenzene

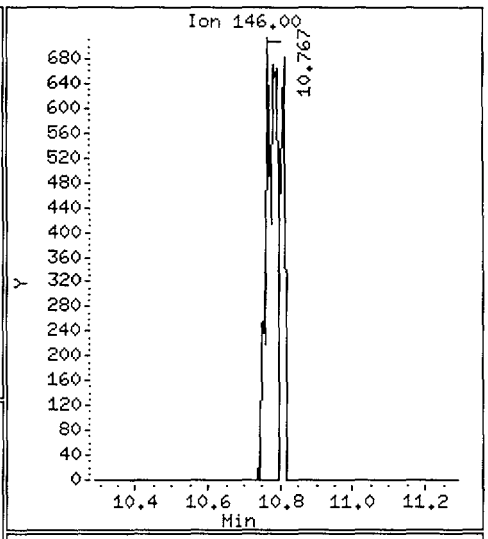
Concentration: 0.0010863 ug

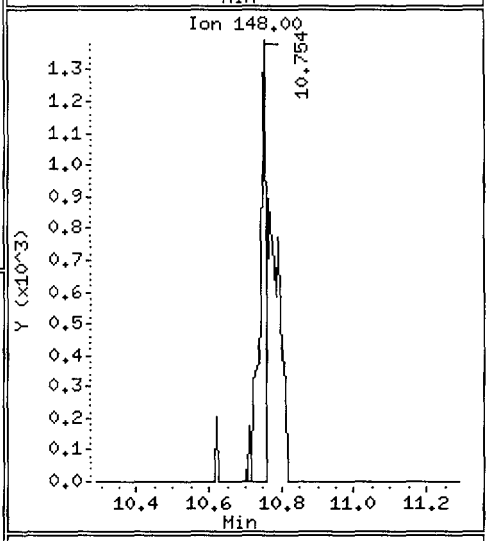


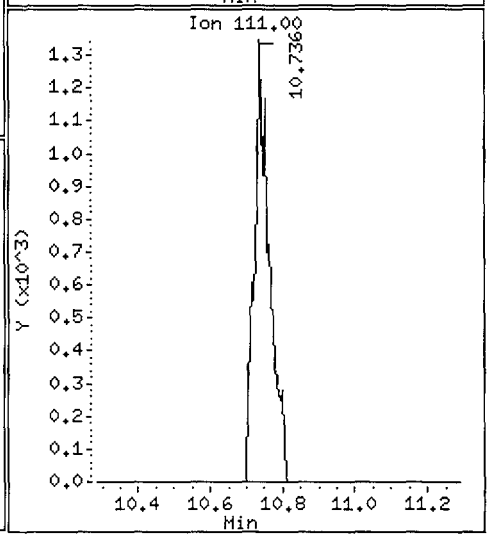












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d
Report Date: 19-Apr-2006 07:33

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d
Lab Smp Id: H2HCD1AA Client Smp ID: G-3089-R3-VOST PAIR
Inj Date : 07-APR-2006 17:03
Operator : 22980 Inst ID: mx.i
Smp Info : H2HCD1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 19-Apr-2006 07:31 tajh Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 3 1,4 Dichlorobenzene-d4	10.742	574922	10.000

	RT	HEIGHT	CONCENTRATIONS ON-COL(ug/L)	FINAL(ug)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Cyclotetrasiloxane, octamethyl-	9.240	435202	7.56975729	0.18924	90	NIST02.1	115617	3
CAS #: 556-67-2								
Benzoic acid, 2-[(trimethylsilyl)oxy]-	12.440	98650	1.71588494	0.042897	64	NIST02.1	107106	3
CAS #: 3789-85-3								

4/19/06 tt

Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

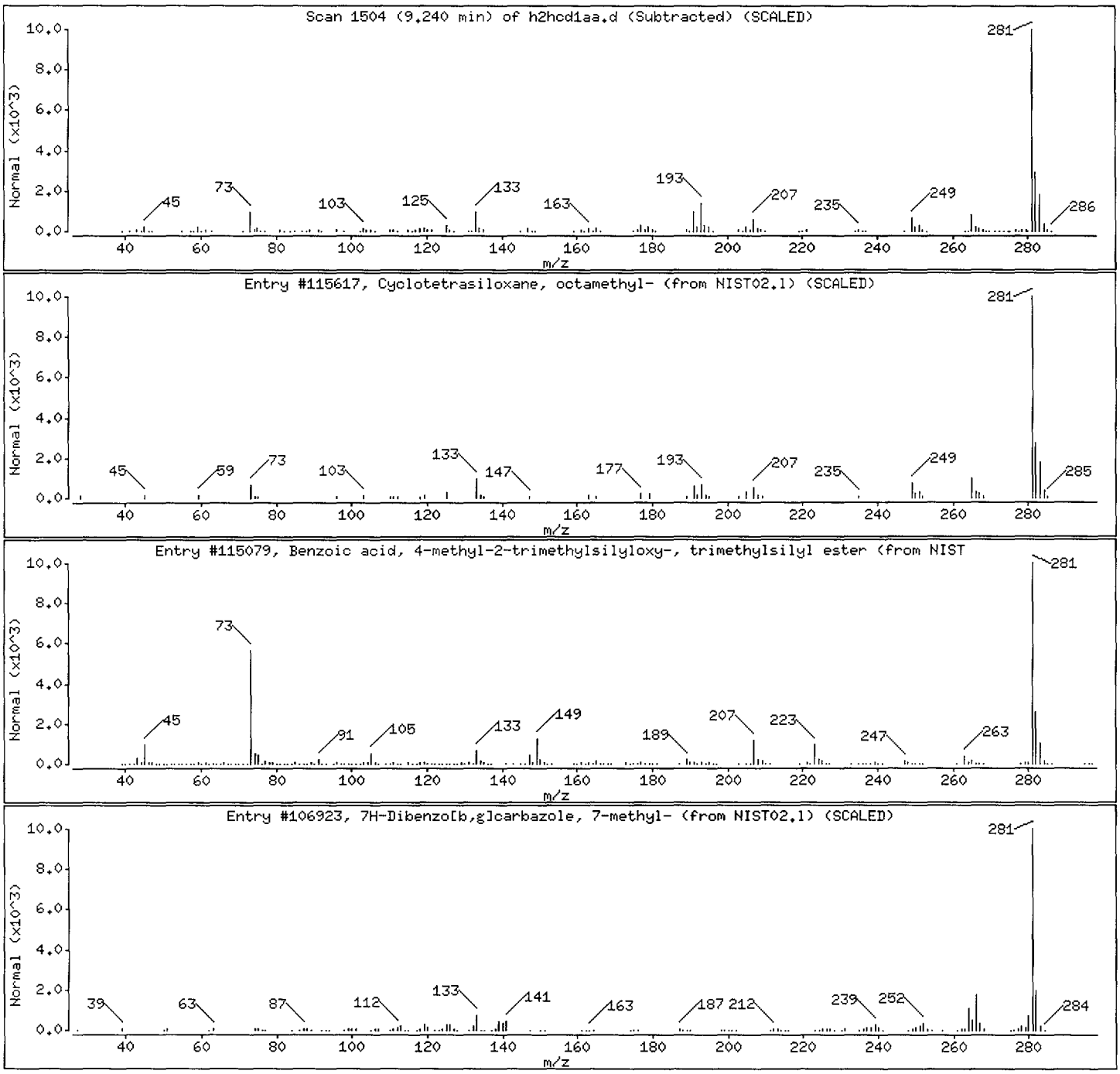
Sample Info: H2HCD1AA,1,0,,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotetrasiloxane, octamethyl-	556-67-2	NIST02.l	115617	90	C8H24O4Si4	296
Benzoic acid, 4-methyl-2-trimethylsilylo	1000153-59-3	NIST02.l	115079	59	C14H24O3Si2	296
7H-Dibenzo[b,g]carbazole, 7-methyl-	3557-49-1	NIST02.l	106923	53	C21H15N	281



Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

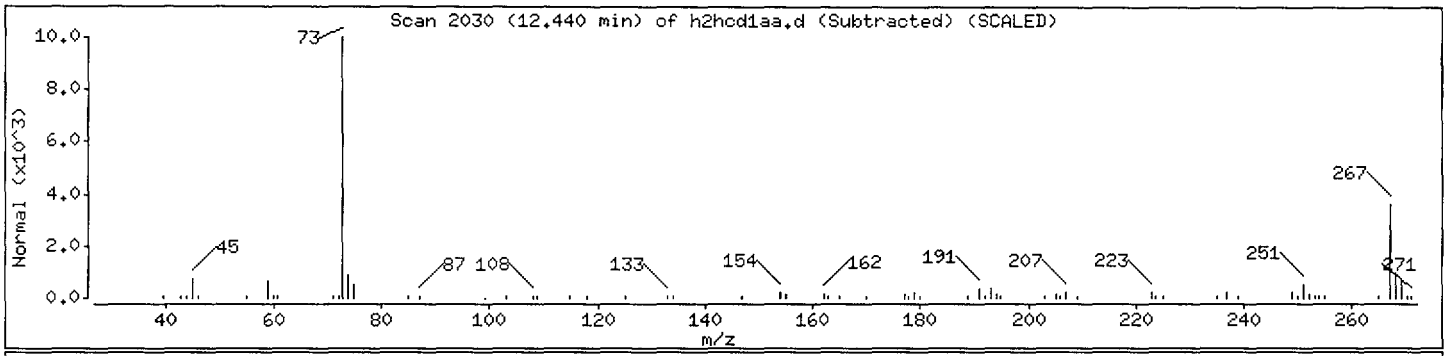
Sample Info: H2HCD1AA,1,0,,,

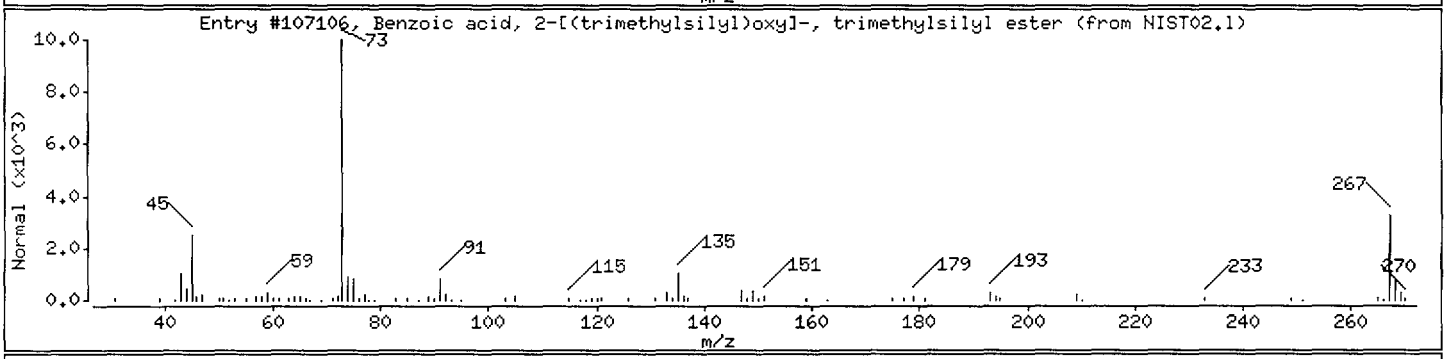
Operator: 22980

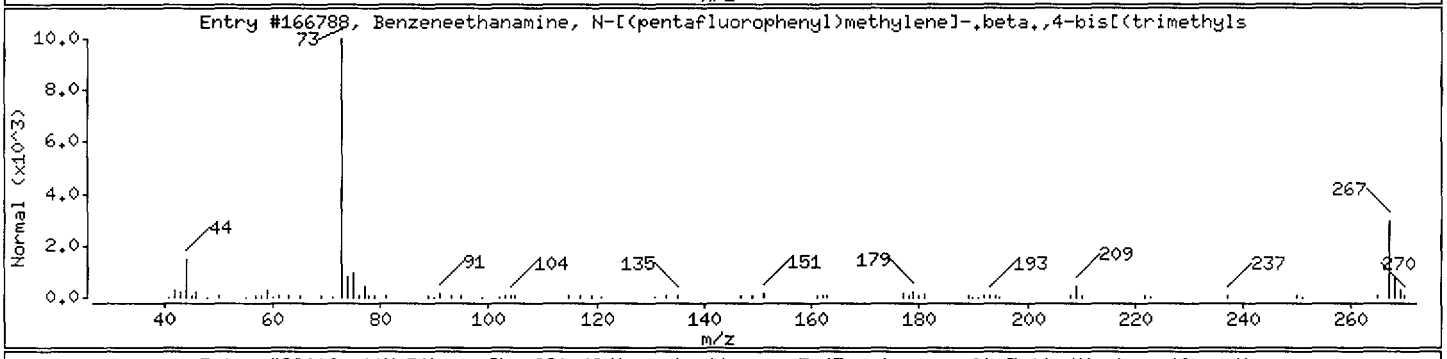
Column phase: J+W 624

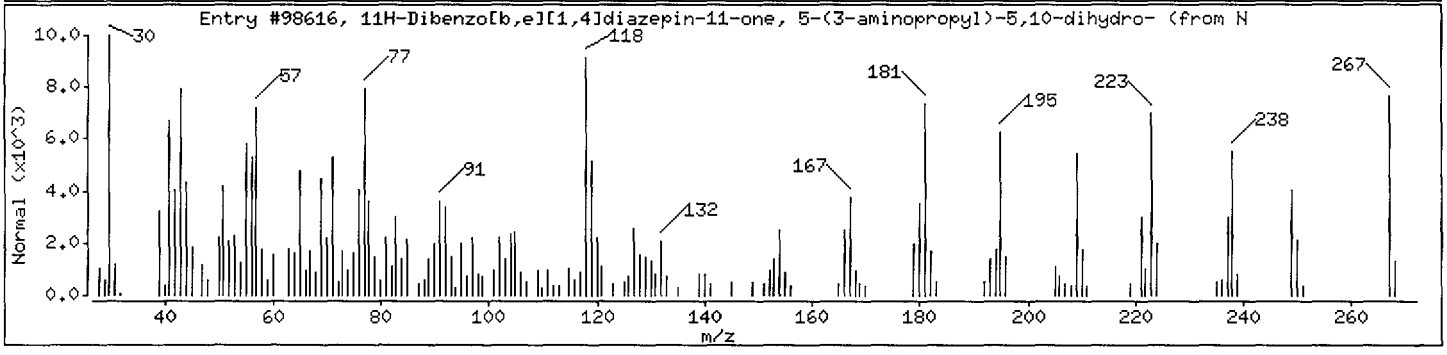
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzoic acid, 2-[(trimethylsilyl)oxy]-,	3789-85-3	NIST02.l	107106	64	C13H2203Si2	282
Benzeneethanamine, N-[(pentafluorophenyl	55429-85-1	NIST02.l	166788	42	C21H26F5N02Si	475
11H-Dibenzo[b,e][1,4]diazepin-11-one, 5-	13450-73-2	NIST02.l	98616	16	C16H17N3O	267









STL Knoxville - ACS

Client Sample ID: G-3089-R3-VOST PAIR #1 TENAX

GC/MS Volatiles

Lot-Sample #...:	H6D030169-023	**Work Order #...:**	H2HCD2AA	**Matrix.....:**	AIR
Date Sampled...:	03/30/06	**Date Received..:**	04/02/06		
Prep Date.....:	04/07/06	**Analysis Date..:**	04/07/06		
Prep Batch #...:	6097054				
Dilution Factor:	1	**Method.....:**	SW846 VOST		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chlorobenzene	**2.1**	**0.010**	**ug**	**0.0013**

Data File: /var/chem/gcms/mx.i/X050306.b/h2hcd1aa.d
Report Date: 10-May-2006 12:22

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X050306.b/h2hcd1aa.d
Lab Smp Id: H2HCD1AA Client Smp ID: G-3089-R3-VOST PAIR
Inj Date : 07-APR-2006 17:03
Operator : 22980 Inst ID: mx.i
Smp Info : H2HCD1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X050306.b/clbz.m
Meth Date : 10-May-2006 12:21 wilesd Quant Type: ISTD
Cal Date : 03-MAY-2006 15:12 Cal File: tclp10.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: clbz.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

05706

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	4.853	4.851	(1.000)	1083386	10.0000	
* 2 Chlorobenzene-d5	119	7.585	7.582	(1.000)	218210	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.742	10.746	(1.000)	235614	10.0000	
57 Tetrachloroethene	164	6.818	6.816	(0.899)	248168	8.06253	0.20156
62 Chlorobenzene (spcc)	112	7.615	7.607	(1.004)	6090129	84.3659	2.1091(A)

TMW 5.10.06

QC Flag Legend

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

Data File: /var/chem/gcms/mx.i/X050306.b/h2hcd1aa.d
Report Date: 10-May-2006 12:35

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: h2hcd1aa.d
Lab Smp Id: H2HCD1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mx.i/X050306.b/clbz.m
Misc Info: X040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 09:16
Client Smp ID: G-3089-R3-VOST PAIR
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1149191	574596	2298382	1083386	-5.73
2 Chlorobenzene-d5	214194	107097	428388	218210	1.87
3 1,4 Dichlorobenze	242601	121300	485202	235614	-2.88

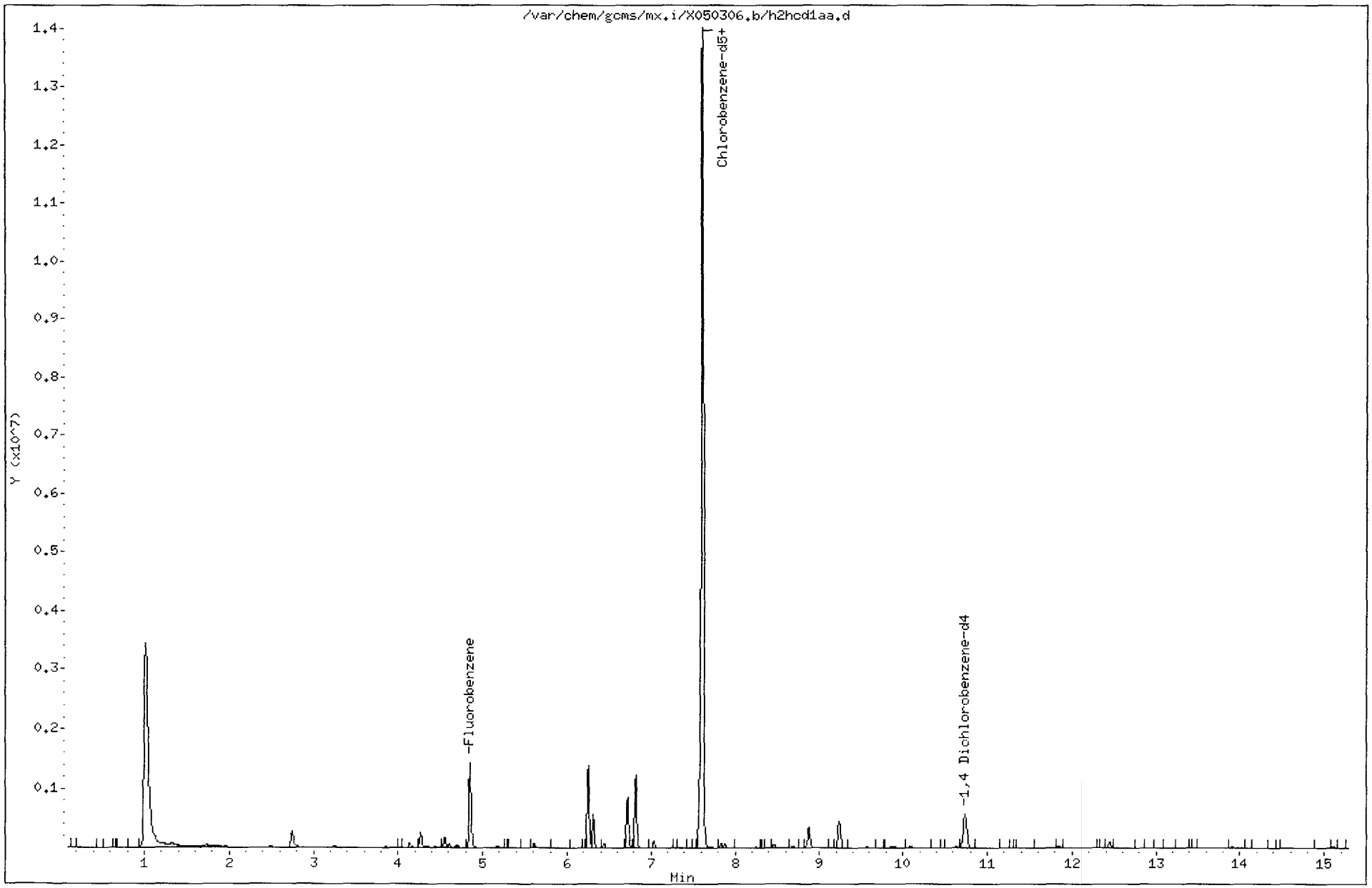
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	0.05
2 Chlorobenzene-d5	7.58	7.08	8.08	7.58	0.03
3 1,4 Dichlorobenze	10.75	10.25	11.25	10.74	-0.03

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

Data File: /var/chem/gcms/mx.i/X050306.b/h2hcd1aa.d
Date : 07-APR-2006 17:03
Client ID: G-3089-R3-VOST PAIR
Sample Info: H2HCD1AA,1,0,,,

Instrument: mx.i
Operator: 22980
Column diameter: 0.18

Column phase: J+W 624



Data File: /var/chem/gcms/mx.i/X050306.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

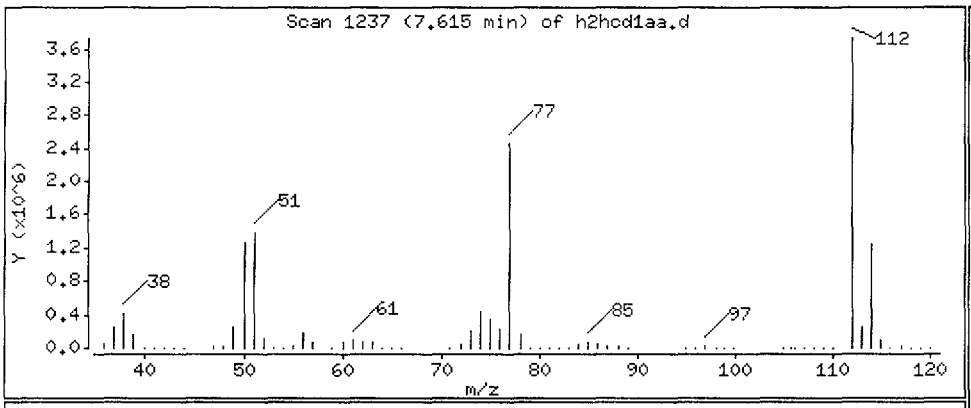
Operator: 22980

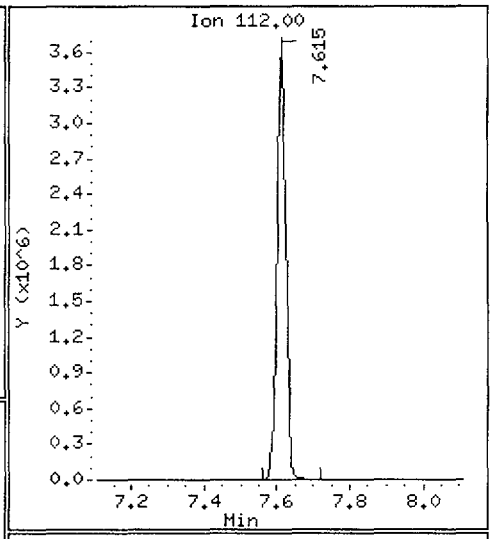
Column phase: J+W 624

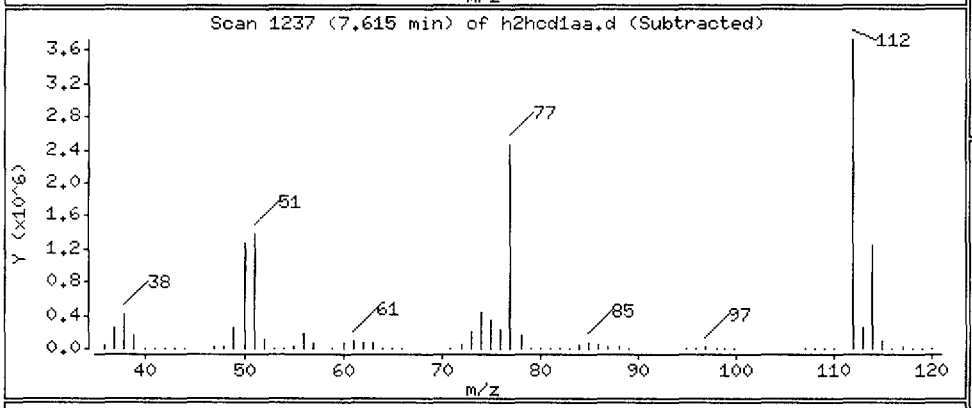
Column diameter: 0.18

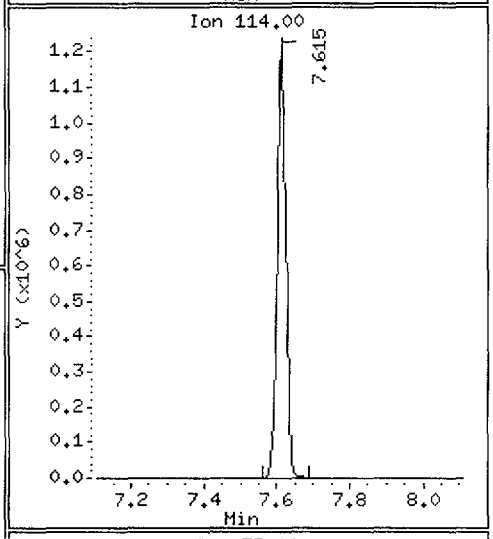
62 Chlorobenzene (spcc)

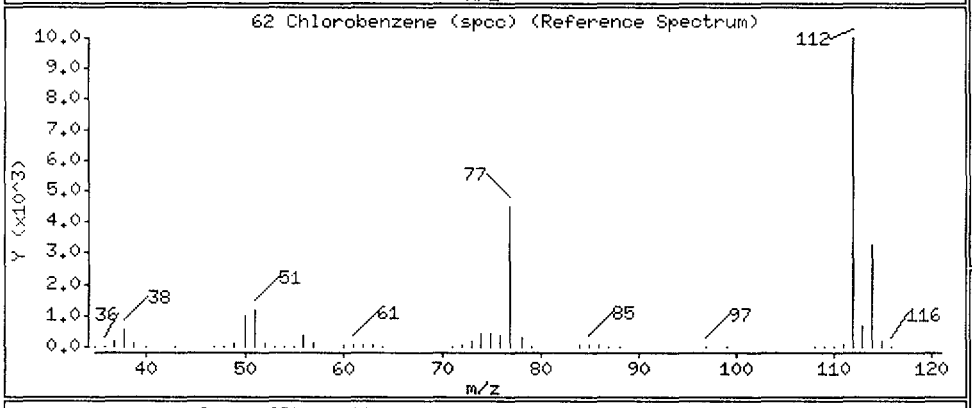
Concentration: 2.1091 ug

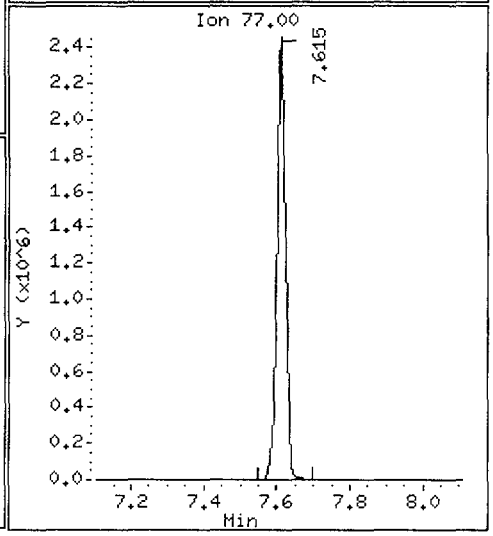


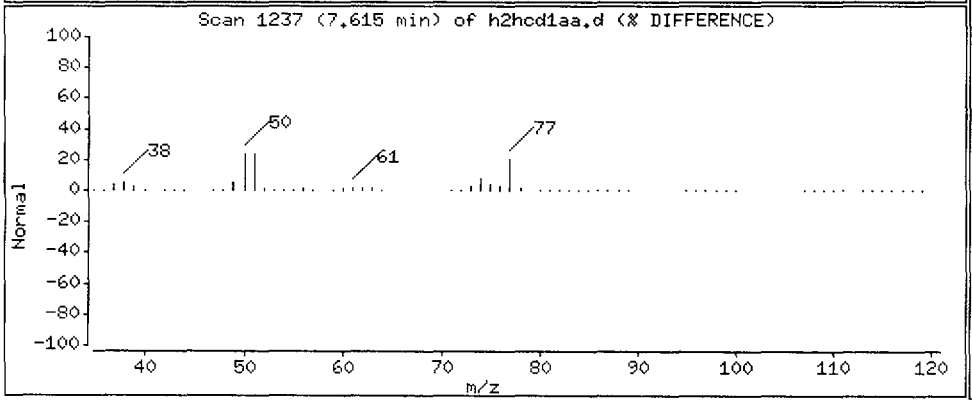












Data File: /var/chem/gcms/mx.i/X050306.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

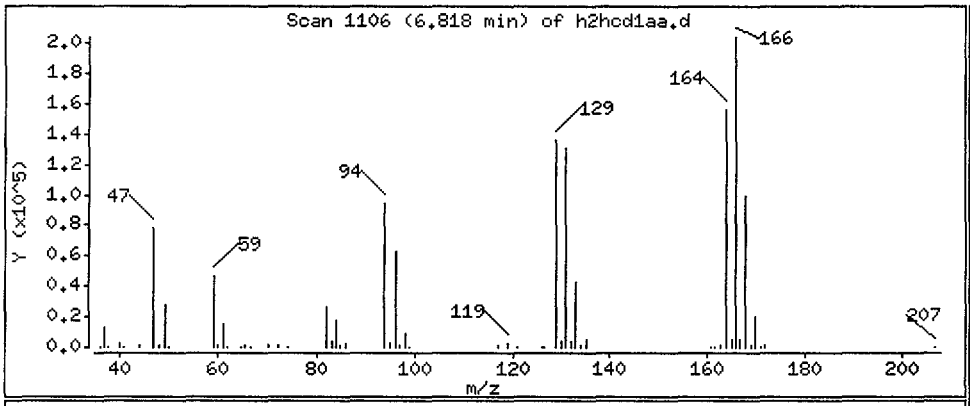
Operator: 22980

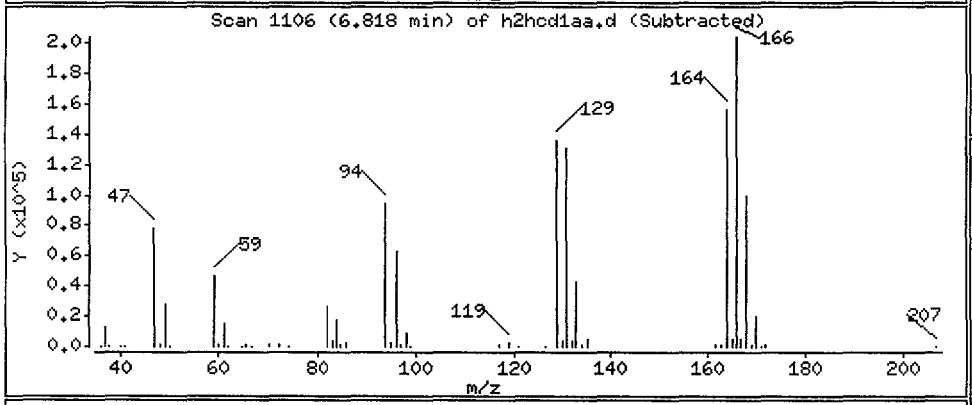
Column phase: J+W 624

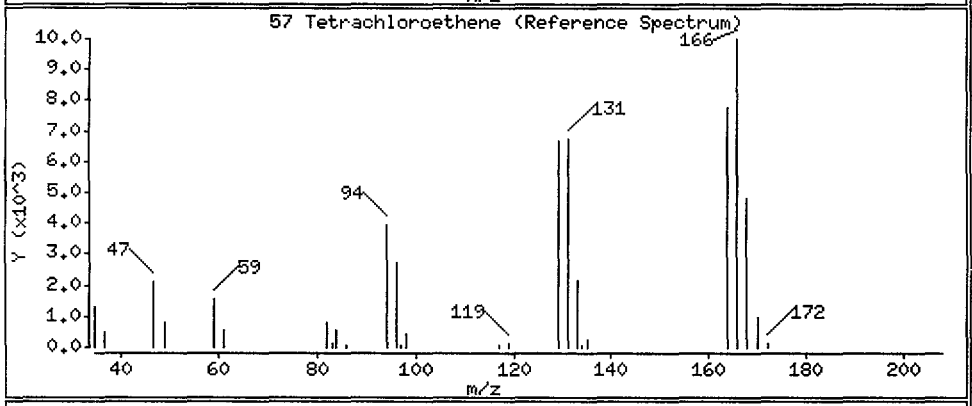
Column diameter: 0.18

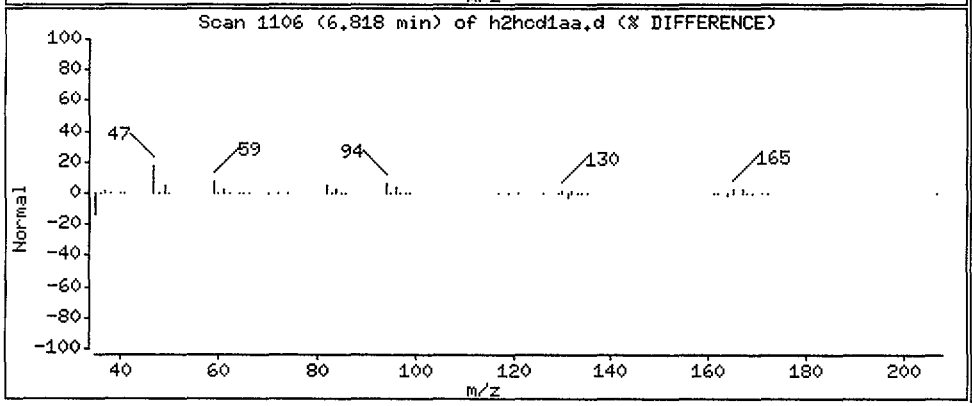
57 Tetrachloroethene

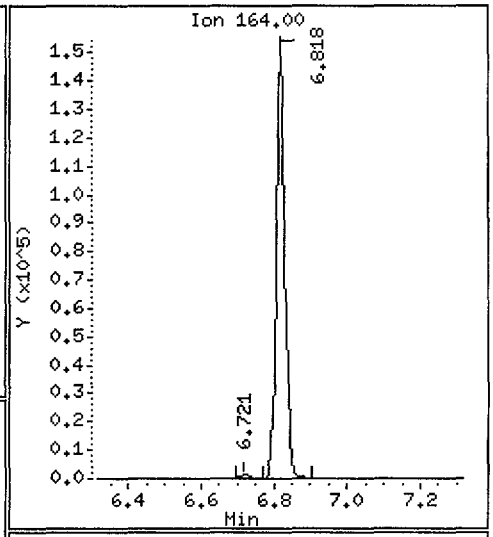
Concentration: 0.20156 ug

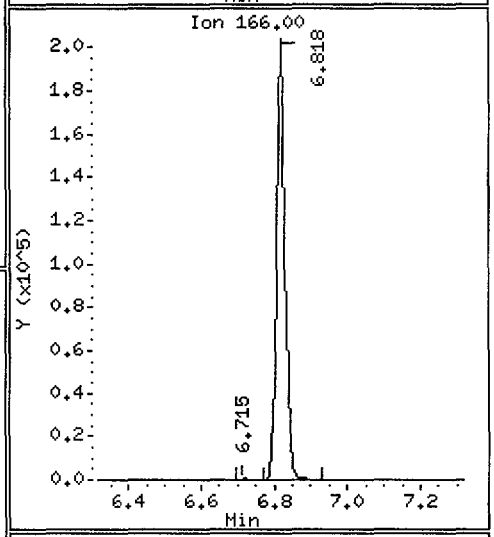


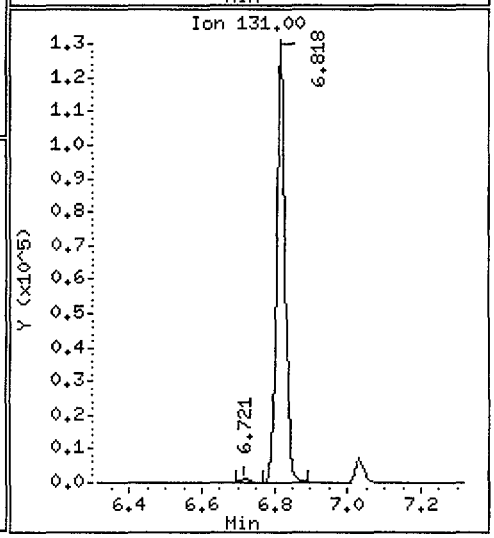












STL Knoxville - ACS

Client Sample ID: G-3090-R3-VOST PAIR #1 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-024 **Work Order #...:** H2HCF1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	0.10	ug	0.085
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.0035 J**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0014 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	**0.049**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	**0.25**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	**0.0077 J**	**0.025**	**ug**	**0.0050**
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3090-R3-VOST PAIR #1 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-024 **Work Order #...:** H2HCF1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.023 J**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.0032 J**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0040 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.012**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	68	(50 - 134)
1,2-Dichloroethane-d4	71	(50 - 134)
Toluene-d8	70	(57 - 127)
Bromofluorobenzene	72	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3090-R3-VOST PAIR #1 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #: H6D030169-024 **Work Order #:** H2HCF1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Nonane	111-84-2	0.026 NJ M	7.8805	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d
Report Date: 19-Apr-2006 07:31

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d
Lab Smp Id: H2HCF1AA Client Smp ID: G-3090-R3-VOST PAIR
Inj Date : 07-APR-2006 16:37
Operator : 22980 Inst ID: mx.i
Smp Info : H2HCF1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 19-Apr-2006 07:29 tajh Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug)
* 1 Fluorobenzene	96	4.851	4.851	(1.000)	863724	10.0000	
* 2 Chlorobenzene-d5	119	7.582	7.582	(1.000)	204605	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.740	10.746	(1.000)	232582	10.0000	
$ 4 Dibromofluoromethane	113	4.273	4.273	(0.881)	99567	6.78017	0.16950
$ 5 1,2-Dichloroethane-d4	65	4.553	4.553	(0.939)	81677	7.13541	0.17838
$ 6 Toluene-d8	98	6.250	6.250	(0.824)	705532	7.04297	0.17607
$ 7 4-Bromofluorobenzene	95	8.872	8.872	(0.826)	199342	7.22873	0.18072
10 Dichlorodifluoromethane	85	1.128	1.128	(0.232)	8383	0.30662	0.0076656
11 Chloromethane (spcc)	50	1.250	1.262	(0.258)	400680	9.95742	0.24894
14 Bromomethane	94	1.602	1.590	(0.330)	3071	0.25243	0.0063107
15 Chloroethane	64	1.694	1.669	(0.349)	3405	0.19744	~~0.0049360~~
23 Carbon Disulfide	76	2.497	2.497	(0.515)	3747	0.05692	0.0014231
26 Methylene Chloride	84	2.746	2.746	(0.566)	12181	0.91224	0.022806
38 *THF	42	4.103	4.109	(0.846)	776	0.66425	0.016606
39 Chloroform (ccc)	83	4.133	4.139	(0.852)	1524	0.04644	0.0011610
42 1,1-Dichloropropene	75	4.851	4.437	(1.000)	66151	1.93442	~~0.040361~~
43 Benzene	78	4.614	4.607	(0.951)	12345	0.14113	0.0035282
44 1,2-Dichloroethane	62	4.851	4.620	(1.000)	15577	1.05822	~~0.026455~~
45 Trichloroethene	130	5.179	5.173	(1.068)	11143	0.47477	0.011869
52 4-Methyl-2-pentanone	43	6.250	6.147	(1.288)	5433	1.18887	~~0.029722~~

4/19/06

Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d
Report Date: 19-Apr-2006 07:31

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug)
53 Toluene (ccc)	91	6.311	6.311	(0.832)	18941	0.15804	0.0039511
54 trans-1,3-Dichloropropene	75	6.725	6.506	(0.887)	1762	0.08392	~~0.0020980~~
56 1,1,2-Trichloroethane	97	6.262	6.670	(0.826)	64442	6.80685	~~0.17017~~
57 Tetrachloroethene	164	6.816	6.816	(0.899)	3272	0.12710	0.0031774
59 2-Hexanone	43	6.998	6.907	(0.923)	1614	0.40301	~~0.010075~~
62 Chlorobenzene (spcc)	112	7.607	7.607	(1.003)	121138	1.96899	0.049225
64 Ethylbenzene (ccc)	106	7.832	7.716	(1.033)	2778	0.06567	~~0.0016418~~
66 o-Xylene	106	7.832	8.251	(1.033)	2778	0.06536	~~0.0016341~~
80 1,2,4-Trimethylbenzene	105	10.089	10.125	(0.939)	4367	0.05820	~~0.0014550~~
82 1,3-Dichlorobenzene	146	10.795	10.612	(1.005)	3022	0.07713	~~0.0019283~~
84 1,4-Dichlorobenzene	146	10.795	10.788	(1.005)	2845	0.08017	0.0020043
90 Napthalene	128	13.952	13.946	(1.299)	2095	0.20761	0.0051903

Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d
Report Date: 19-Apr-2006 07:31

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: h2hcf1aa.d
Lab Smp Id: H2HCF1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Calibration Date: 07-APR-2006
Calibration Time: 09:16
Client Smp ID: G-3090-R3-VOST PAIR
Level: LOW
Sample Type: AIR
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1149191	574596	2298382	863724	-24.84
2 Chlorobenzene-d5	214194	107097	428388	204605	-4.48
3 1,4 Dichlorobenze	242601	121300	485202	232582	-4.13

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	0.00
2 Chlorobenzene-d5	7.58	7.08	8.08	7.58	0.00
3 1,4 Dichlorobenze	10.75	10.25	11.25	10.74	-0.06

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

Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d
Report Date: 19-Apr-2006 07:31

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: GAS
Lab Smp Id: H2HCF1AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Client SDG: H6D030169
Fraction: VOA
Client Smp ID: G-3090-R3-VOST PAIR
Operator: 22980
SampleType: SAMPLE
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

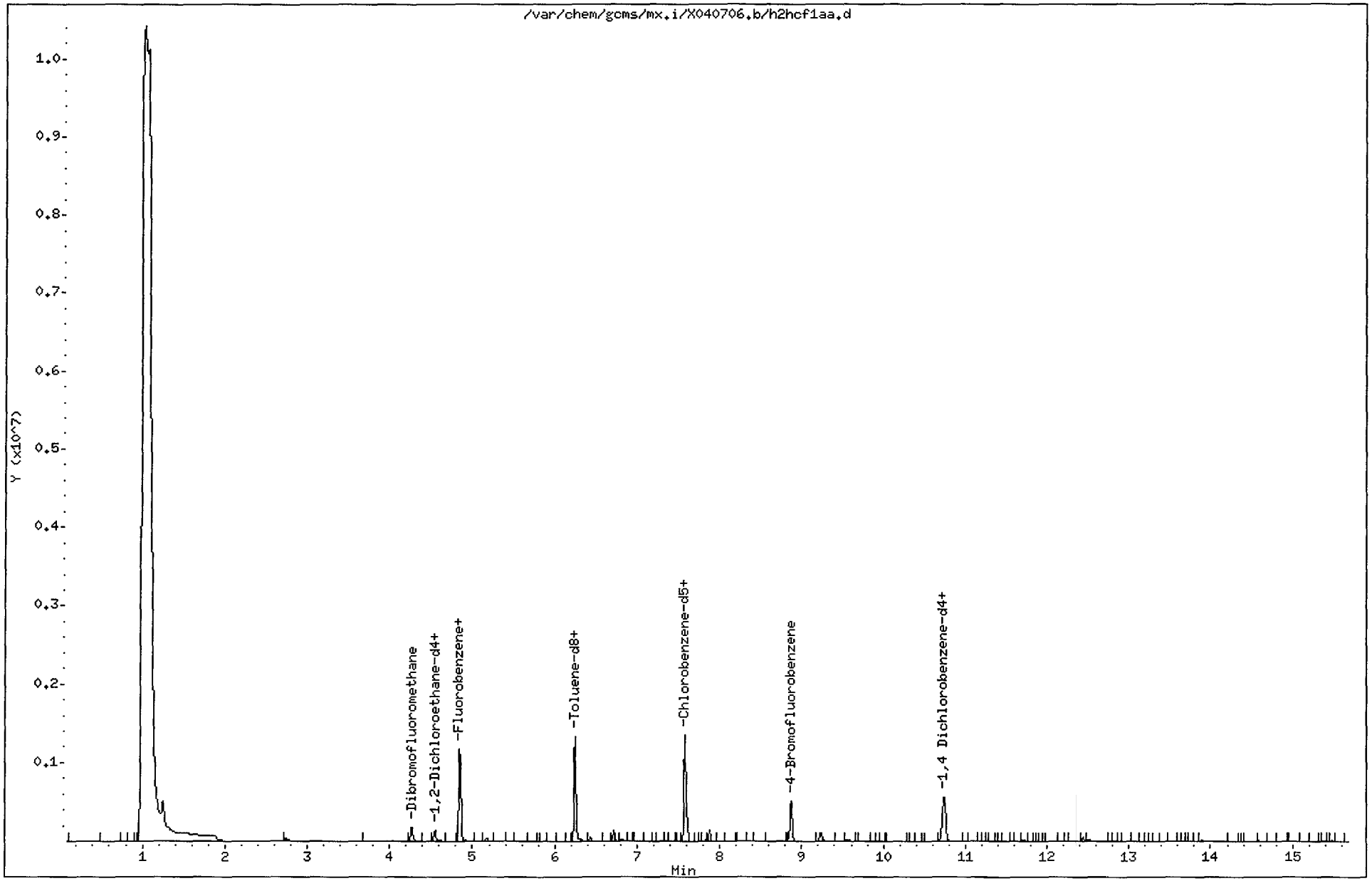
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.16950	67.80	50-150
$ 5 1,2-Dichloroethane	0.25000	0.17838	71.35	50-150
$ 6 Toluene-d8	0.25000	0.17607	70.43	50-150
$ 7 4-Bromofluorobenze	0.25000	0.18072	72.29	50-150

Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d
Date : 07-APR-2006 16:37
Client ID: G-3090-R3-VOST PAIR
Sample Info: H2HCF1AA,1,0,,,

Instrument: mx.i

Operator: 22980
Column diameter: 0.18

Column phase: J+W 624



Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

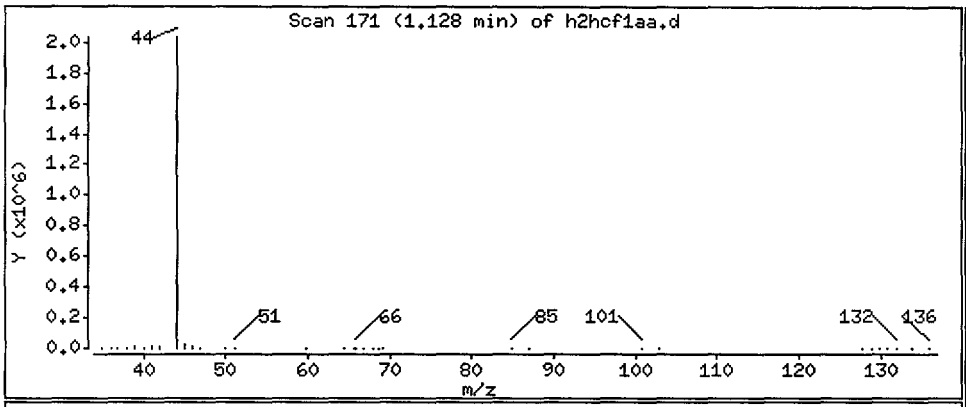
Operator: 22980

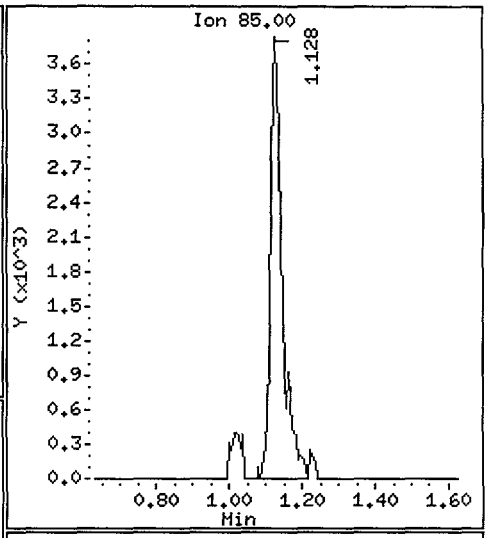
Column phase: J+W 624

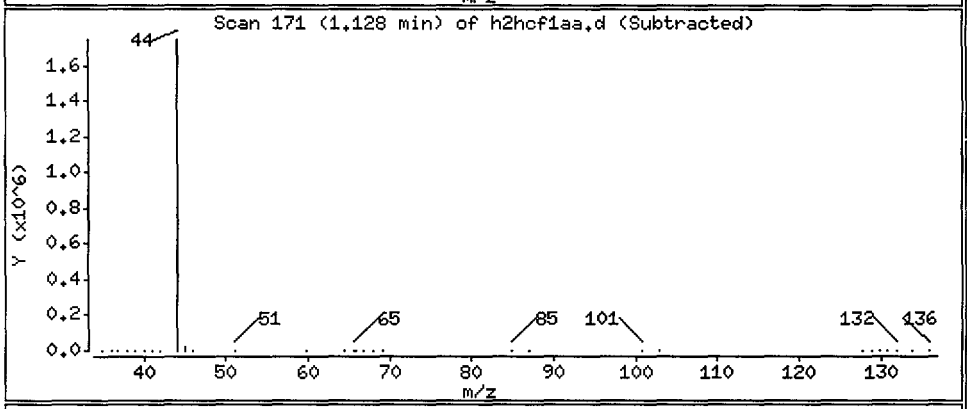
Column diameter: 0.18

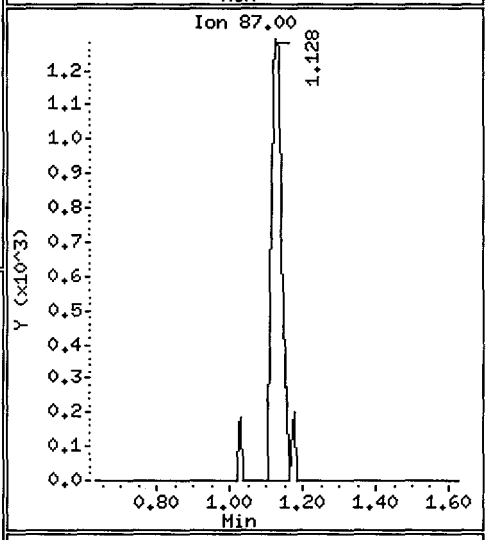
10 Dichlorodifluoromethane

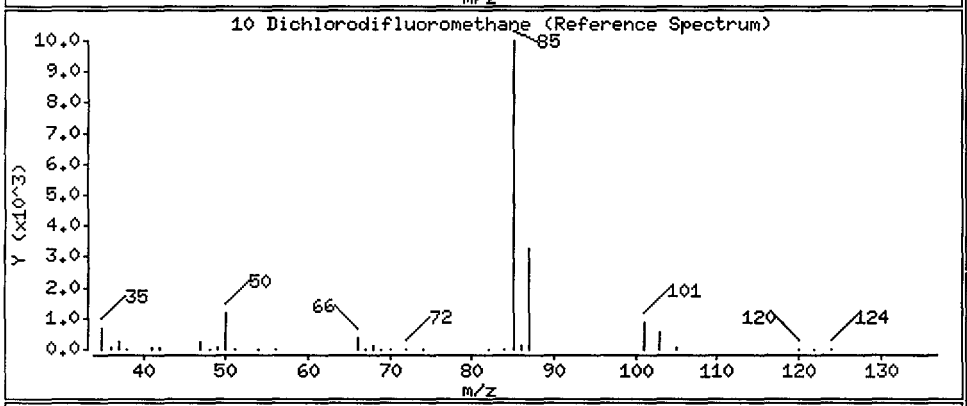
Concentration: 0.0076656 ug

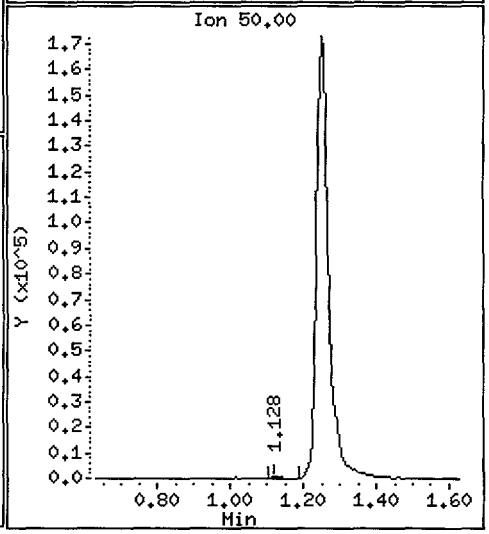


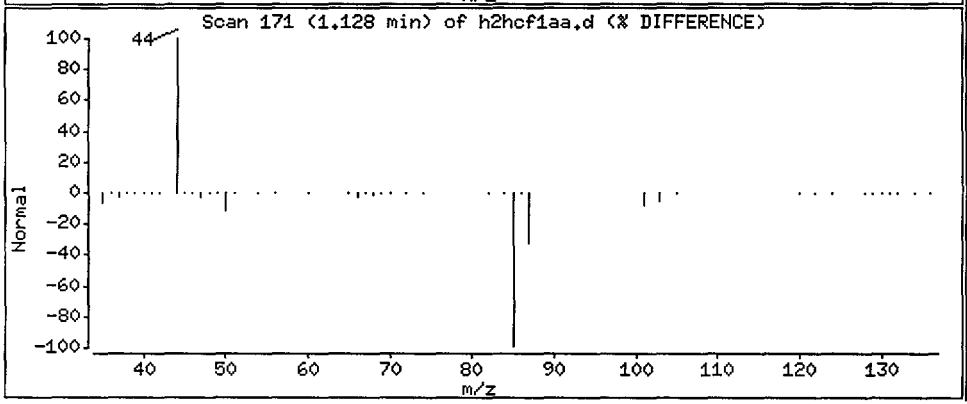












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

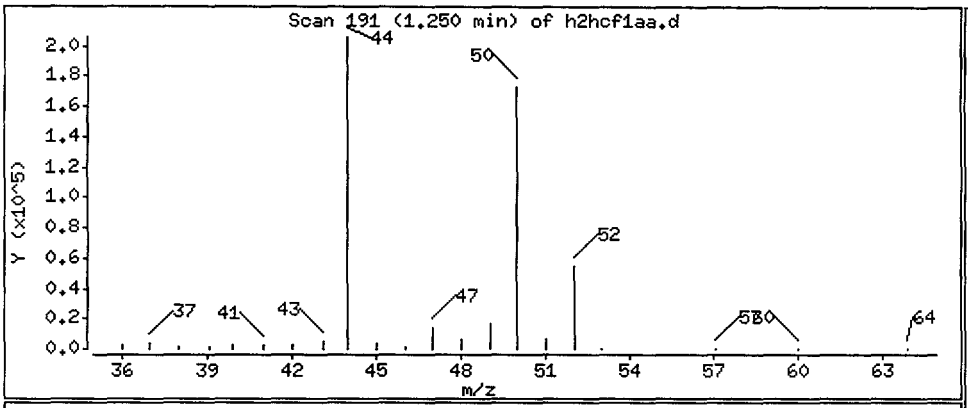
Operator: 22980

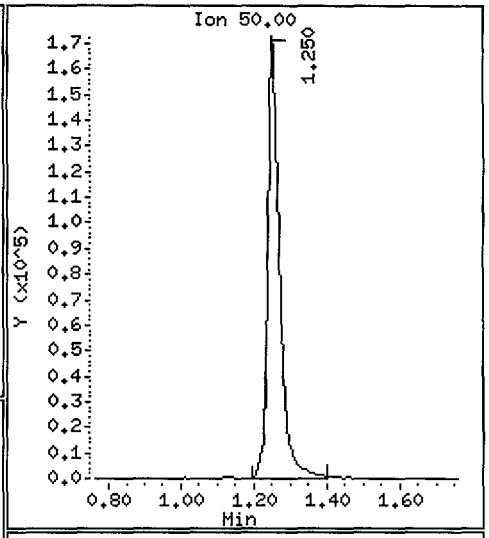
Column phase: J+W 624

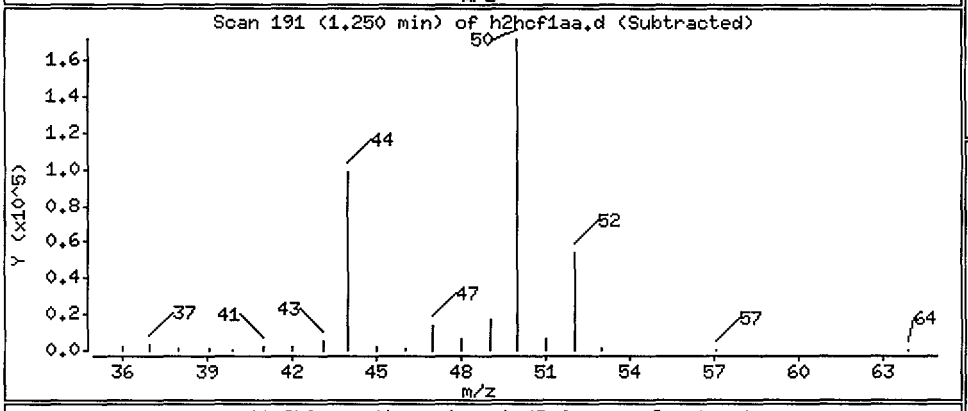
Column diameter: 0.18

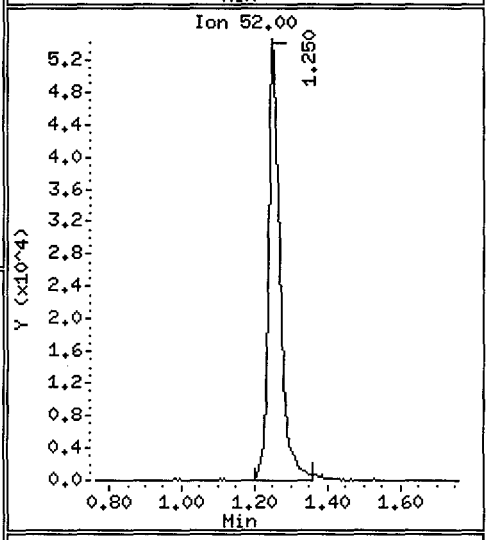
11 Chloromethane (spcc)

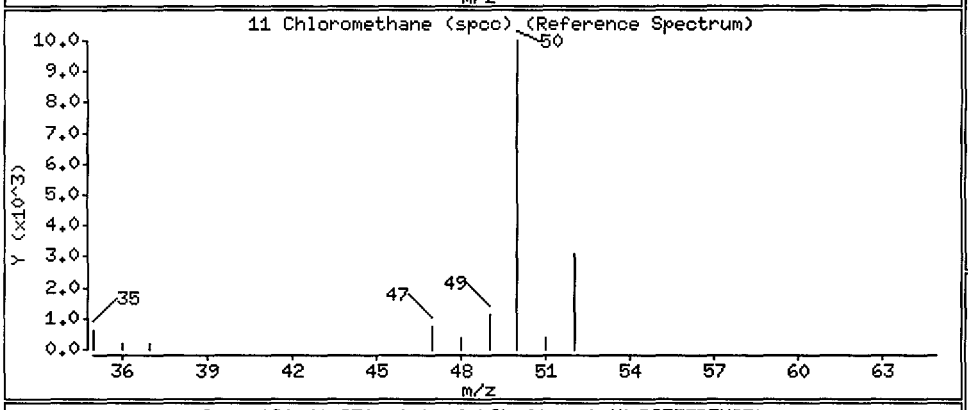
Concentration: 0.24894 ug

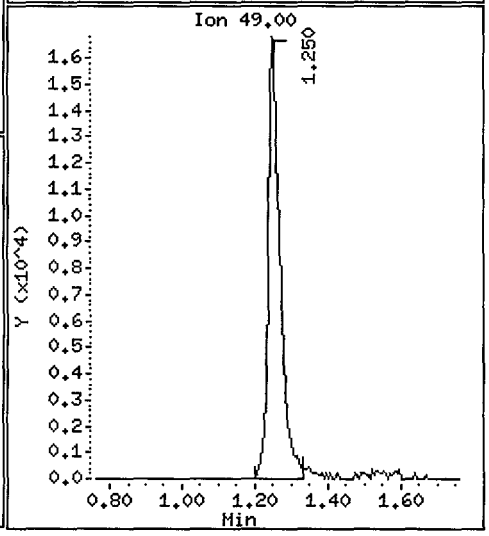


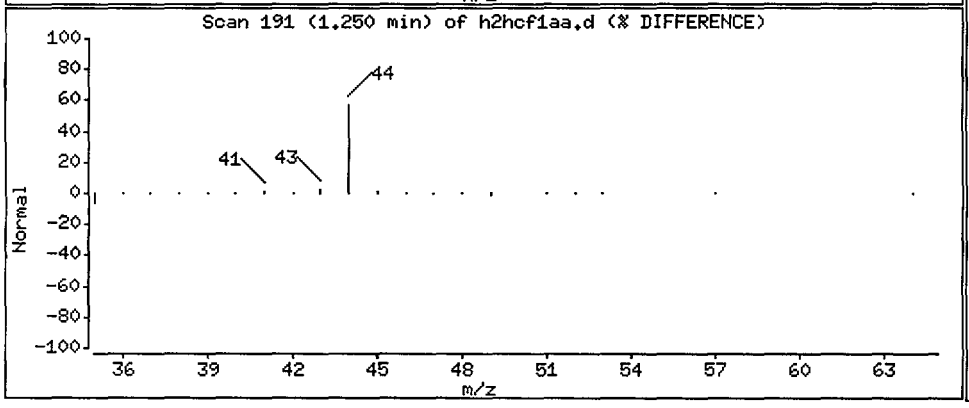












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

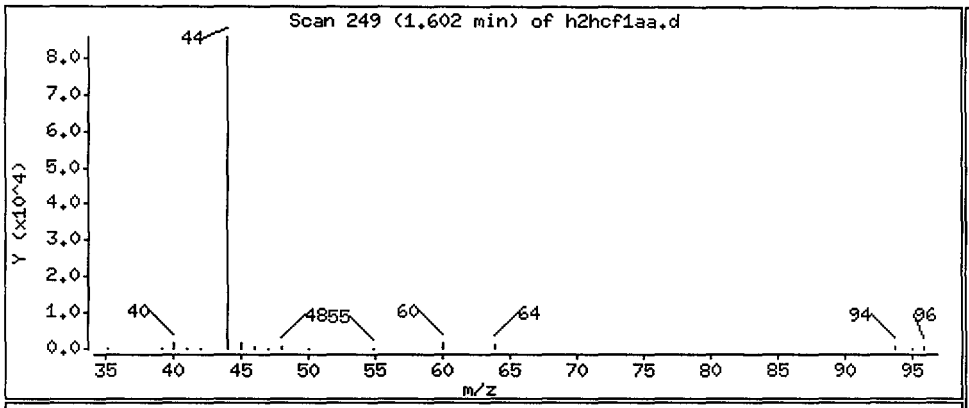
Operator: 22980

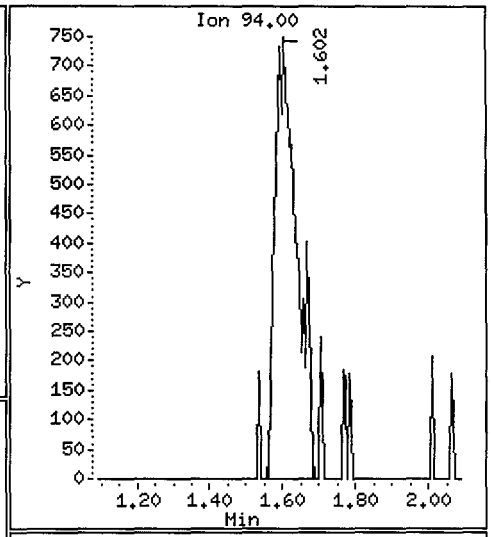
Column phase: J+W 624

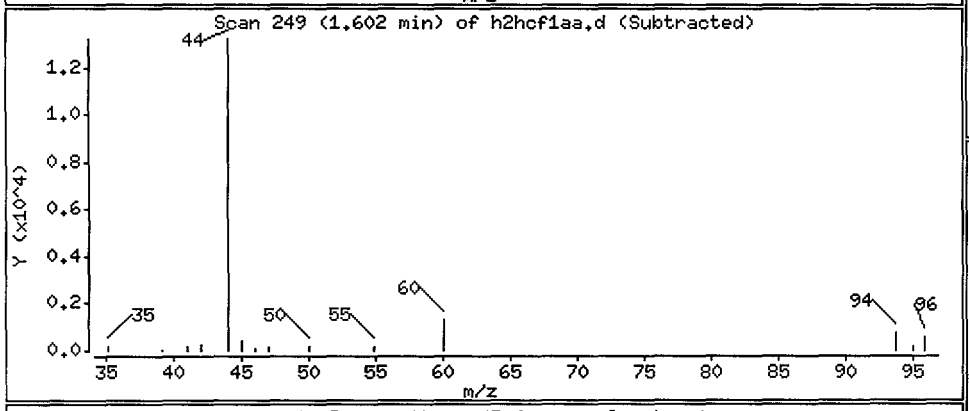
Column diameter: 0.18

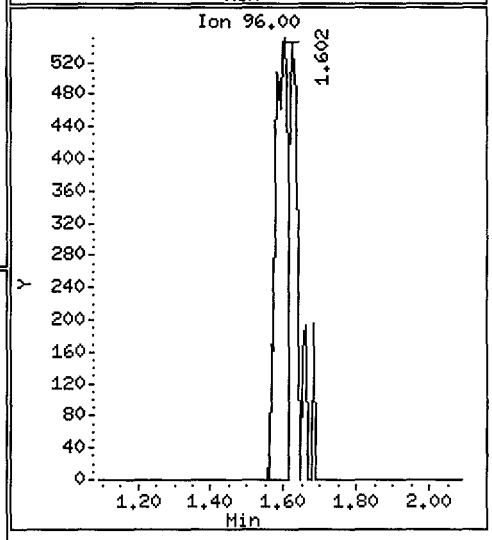
14 Bromomethane

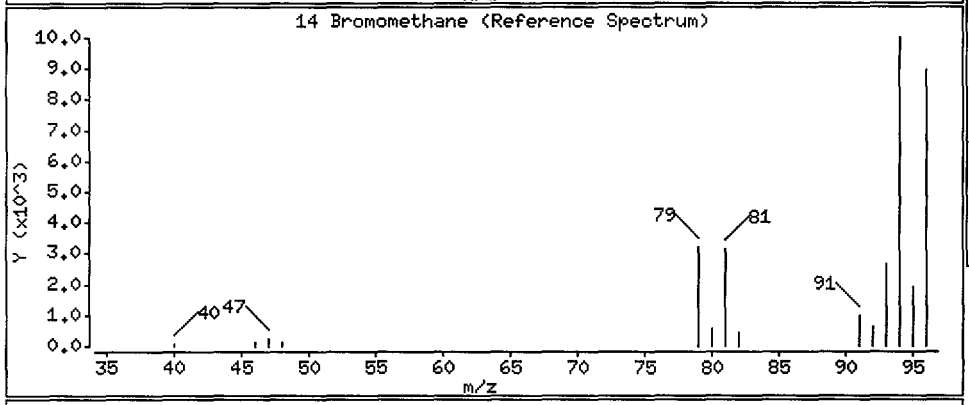
Concentration: 0.0063107 ug

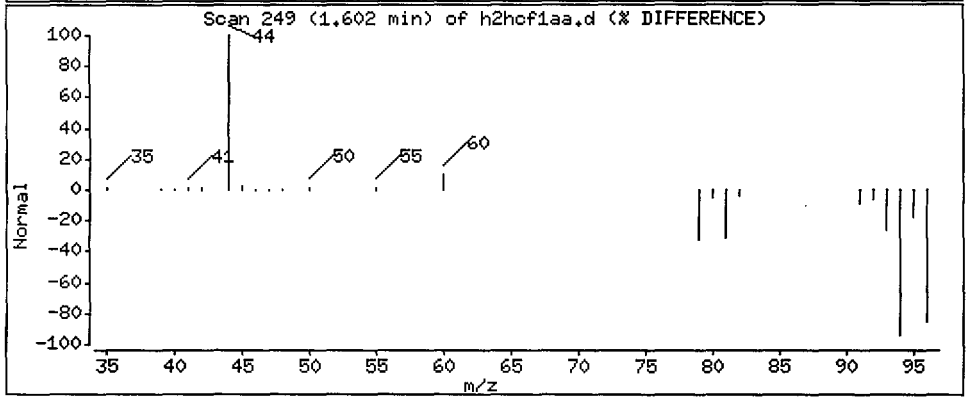












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

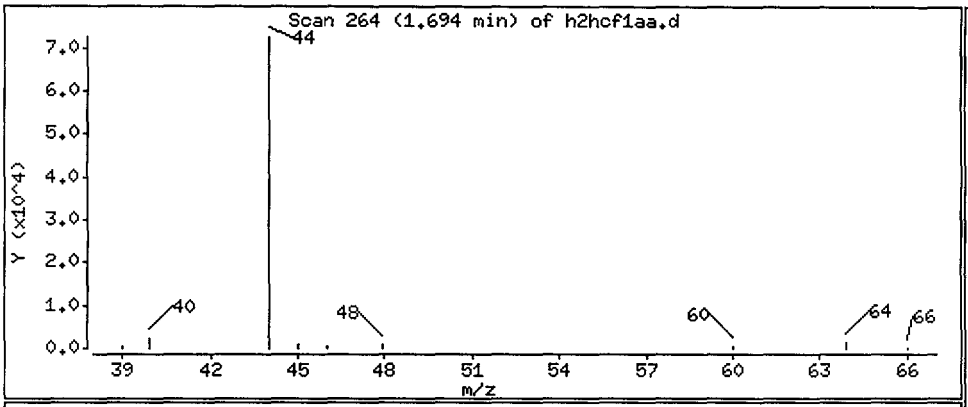
Operator: 22980

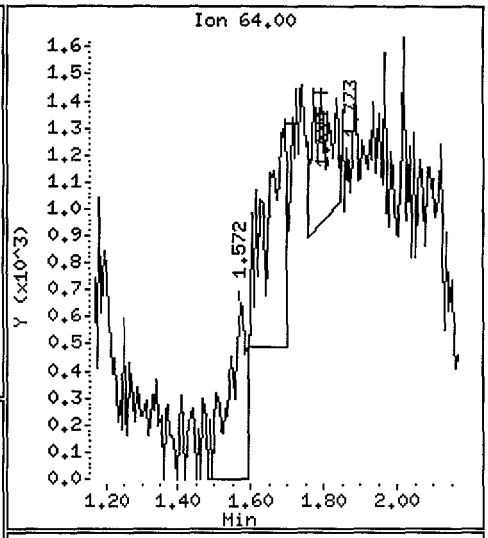
Column phase: J+W 624

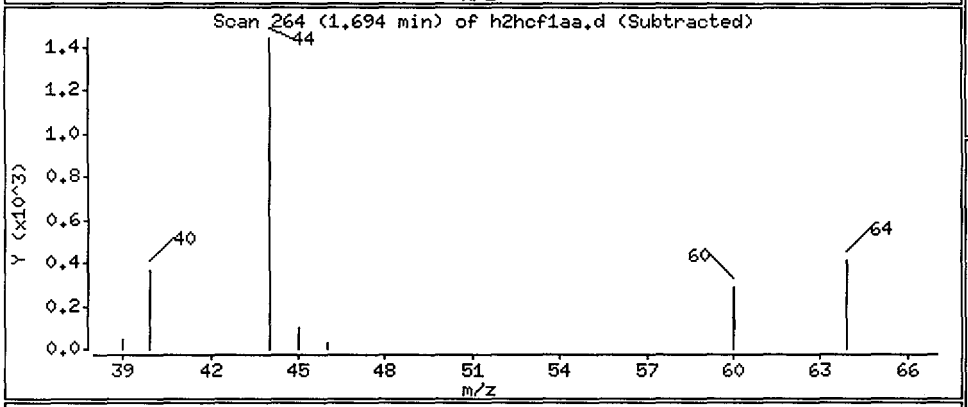
Column diameter: 0.18

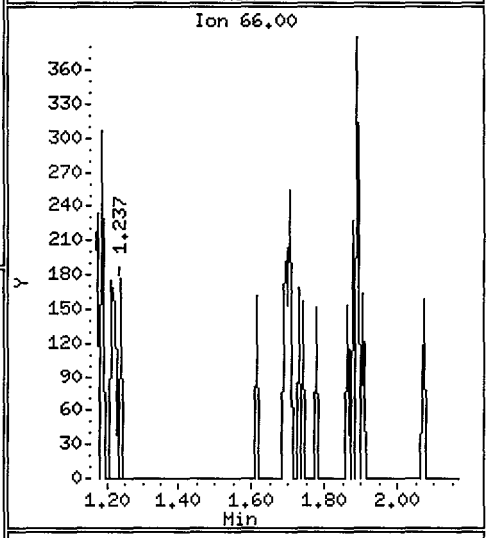
15 Chloroethane

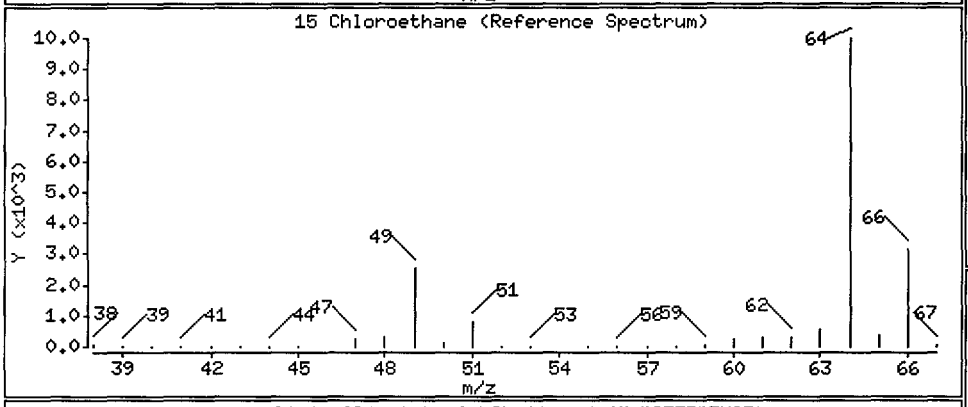
Concentration: 0.0049360 ug

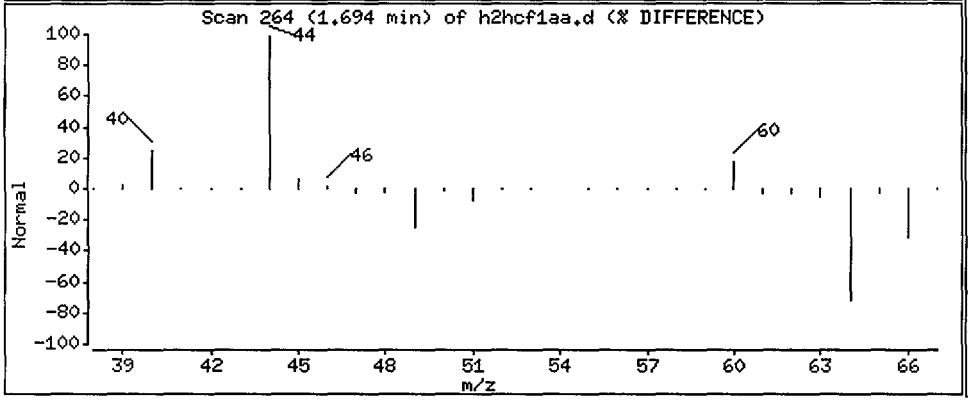


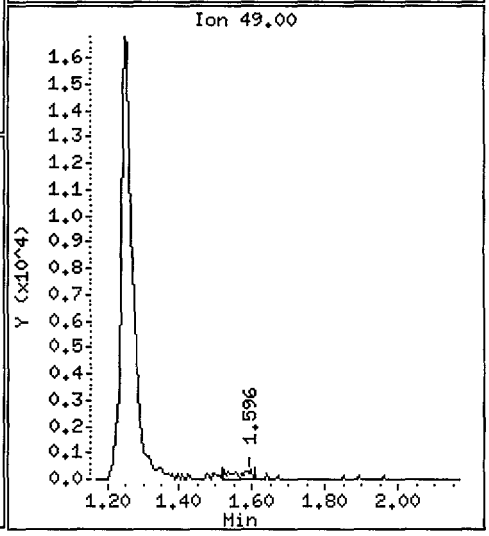












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

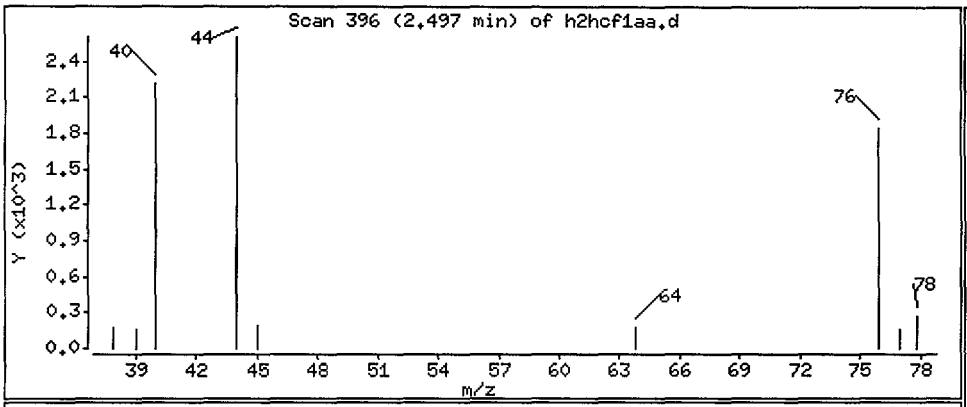
Operator: 22980

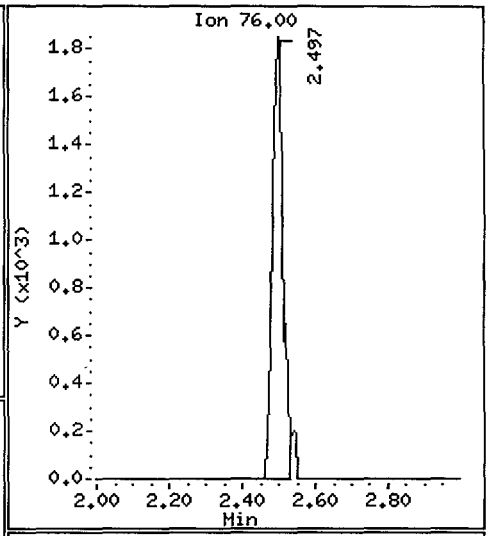
Column phase: J+W 624

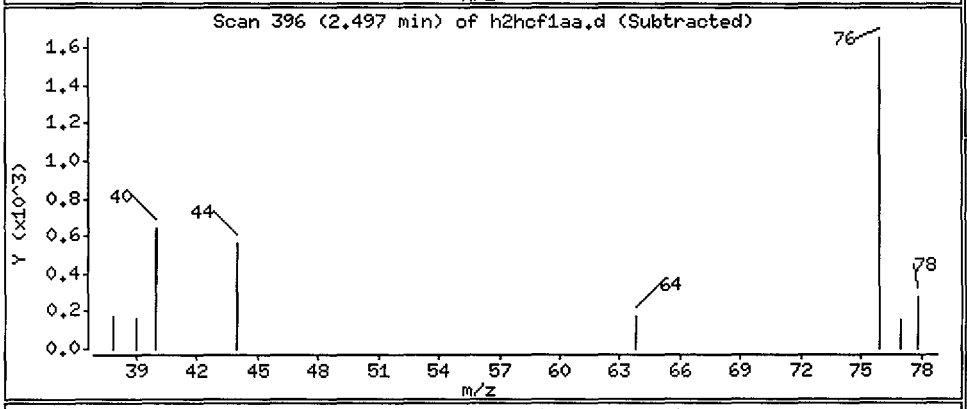
Column diameter: 0.18

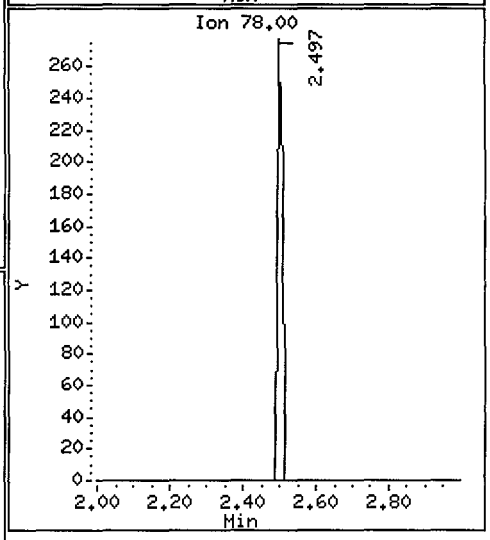
23 Carbon Disulfide

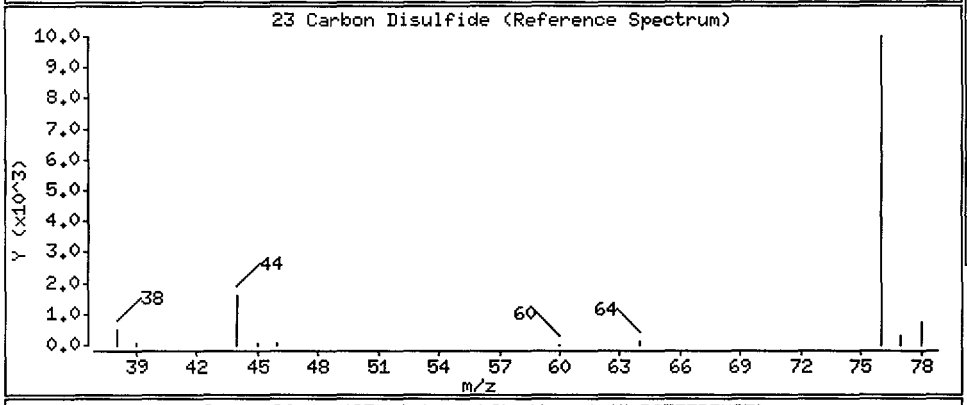
Concentration: 0.0014231 ug

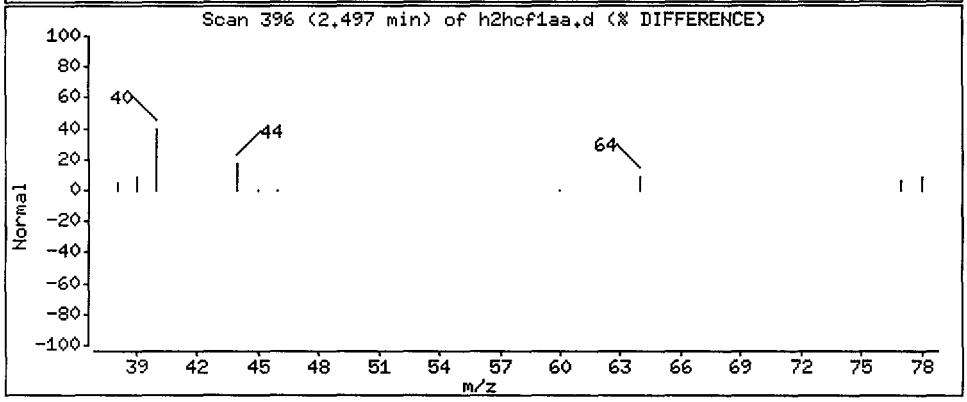












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

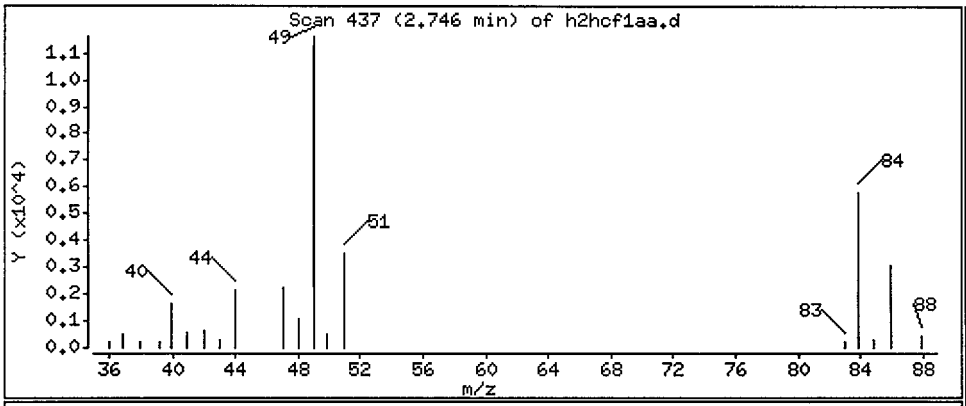
Operator: 22980

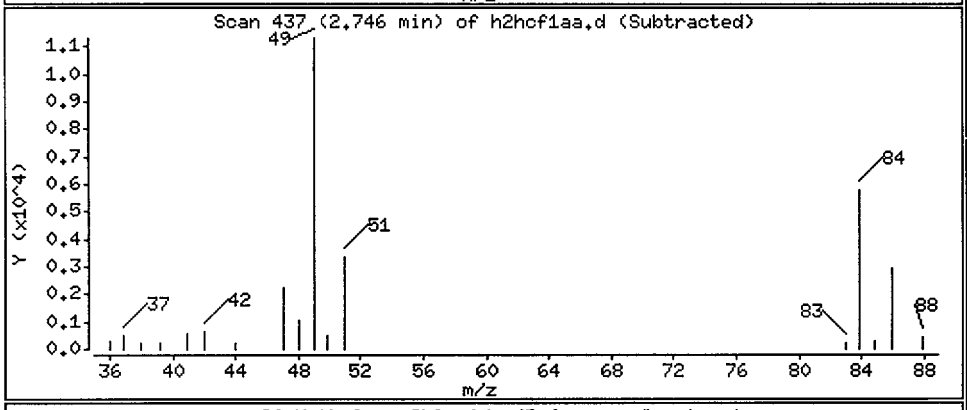
Column phase: J+W 624

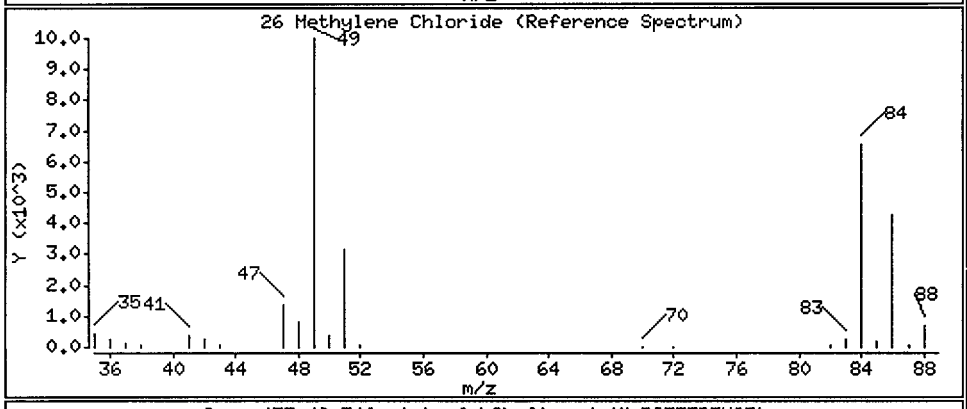
Column diameter: 0.18

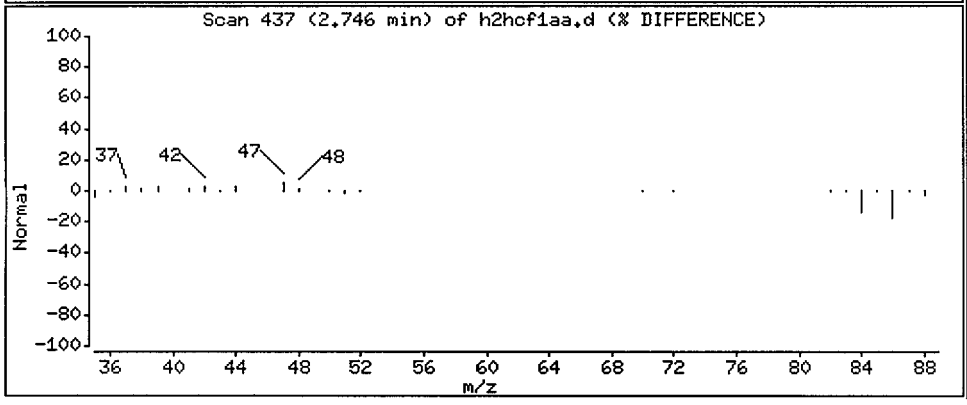
26 Methylene Chloride

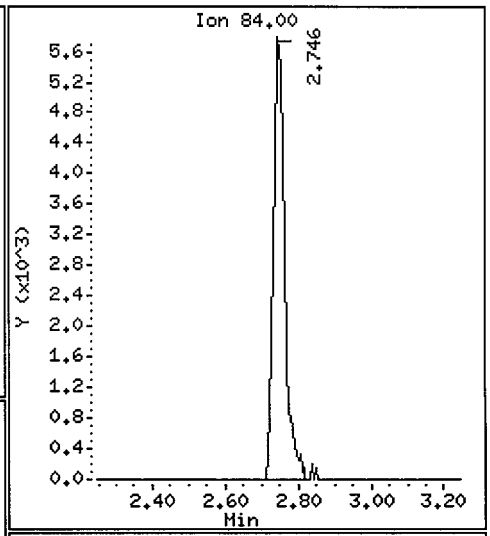
Concentration: 0.022806 ug

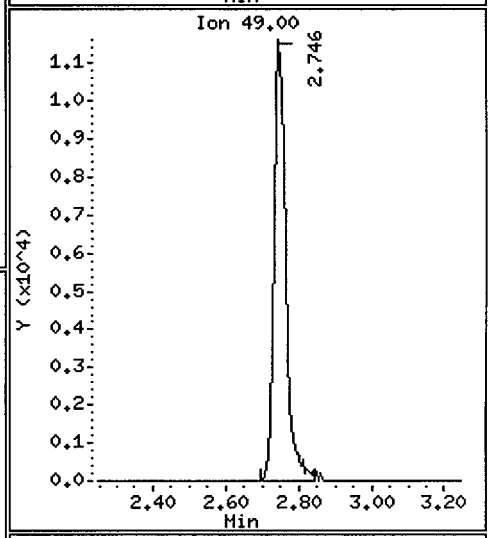


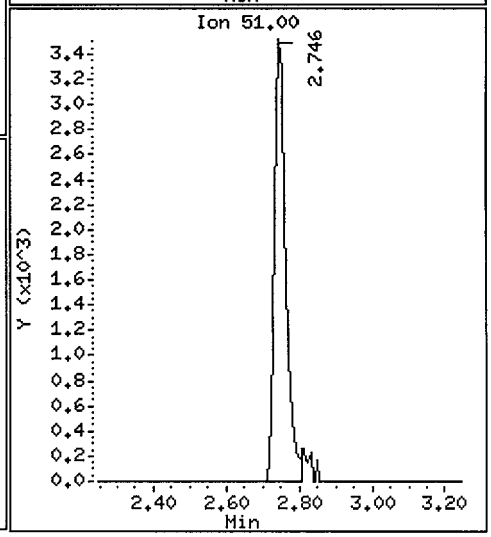












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

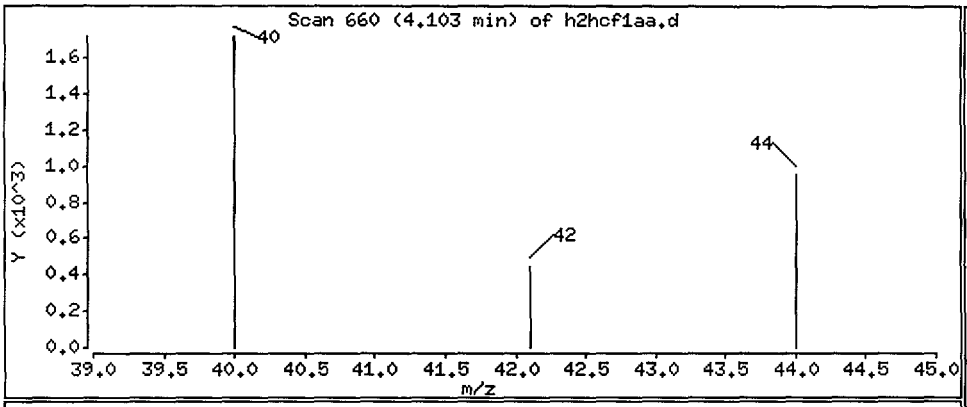
Operator: 22980

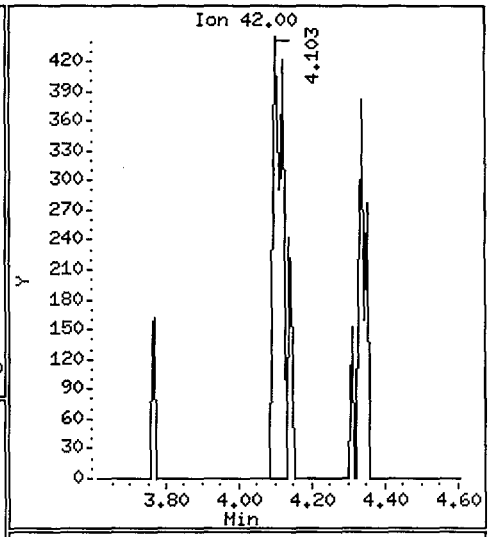
Column phase: J+W 624

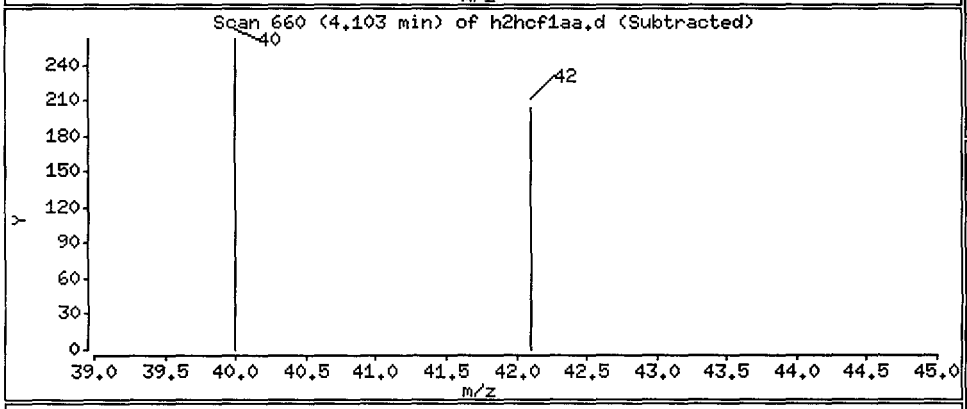
Column diameter: 0.18

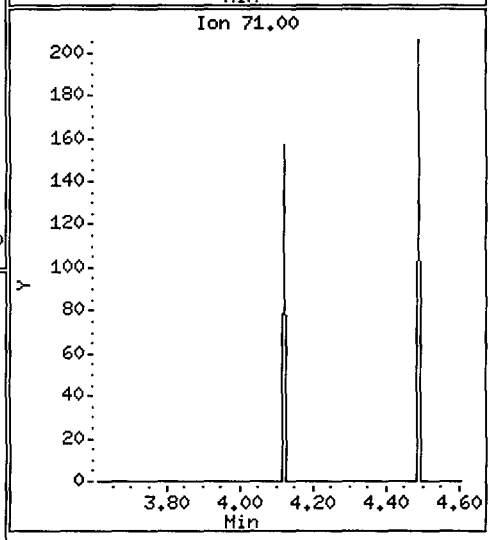
38 *THF

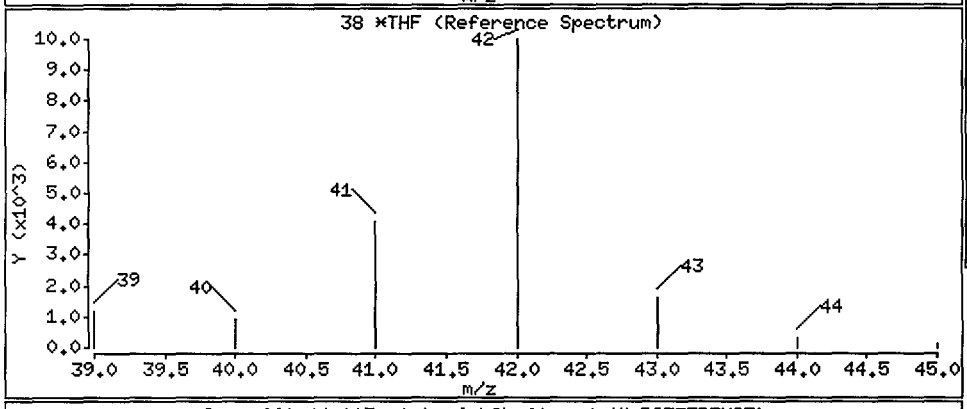
Concentration: 0.016606 ug

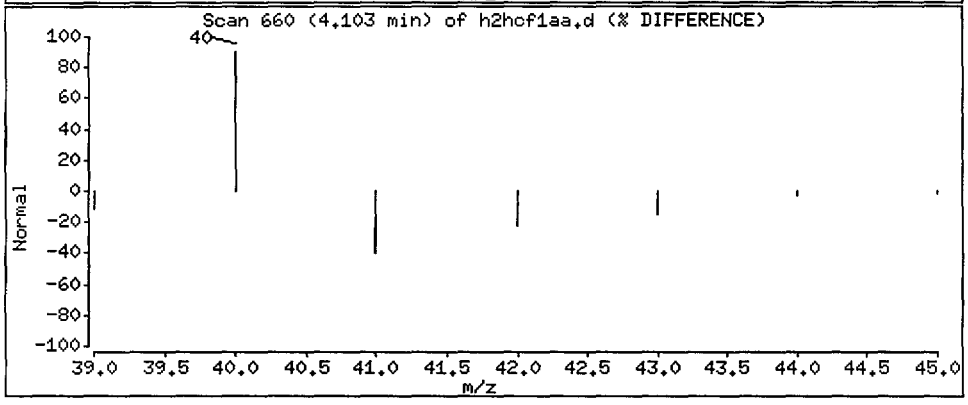












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

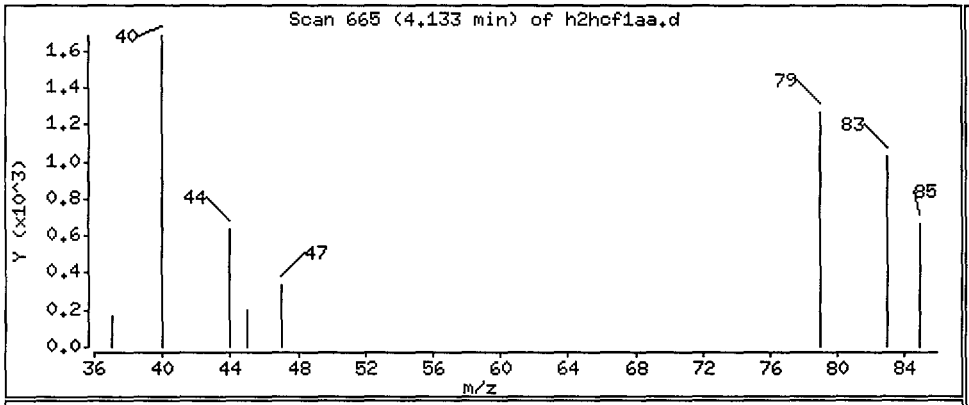
Operator: 22980

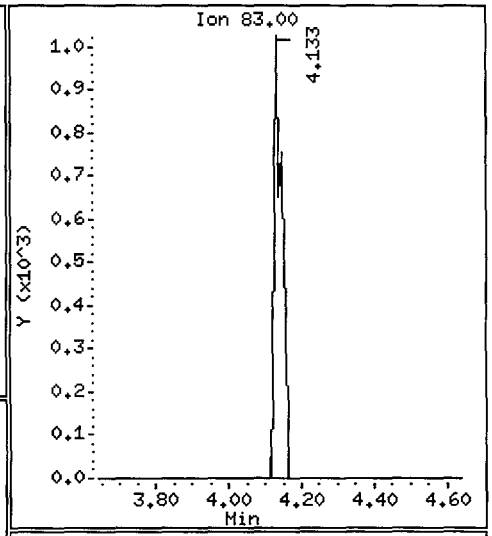
Column phase: J+W 624

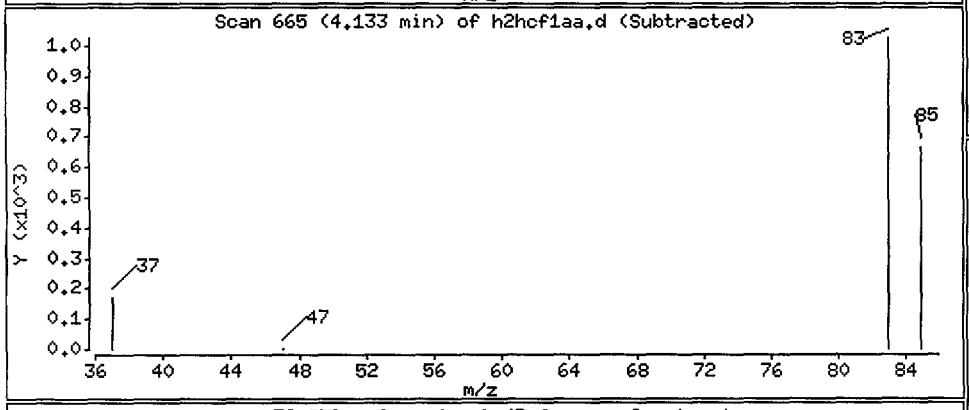
Column diameter: 0.18

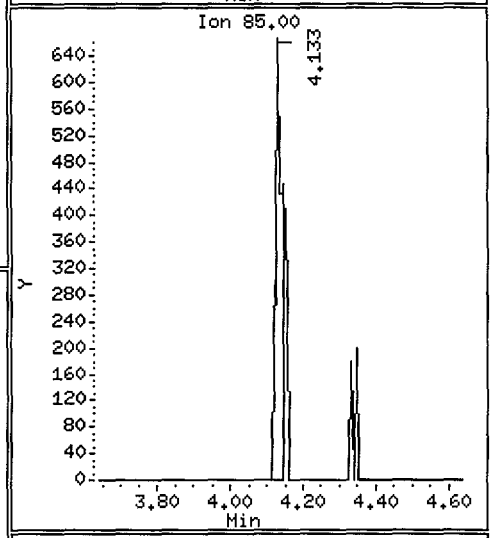
39 Chloroform (ccc)

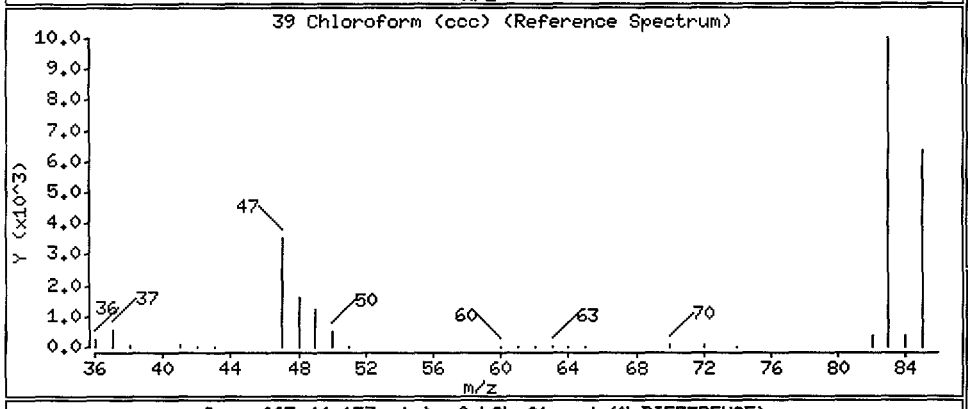
Concentration: 0.0011610 ug

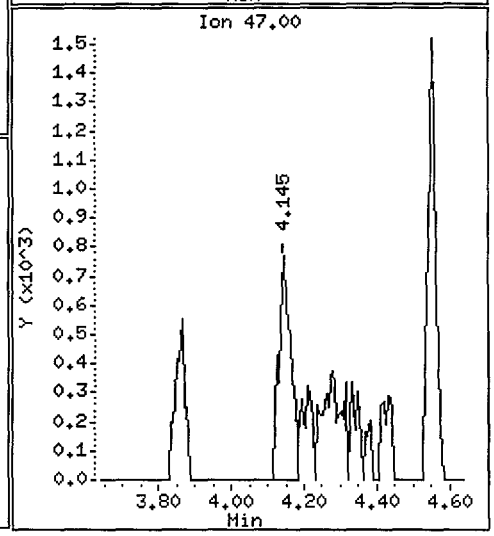


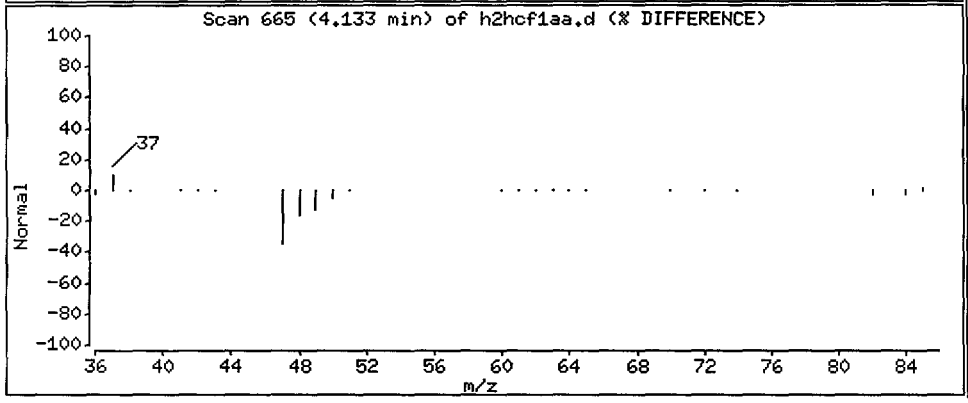












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

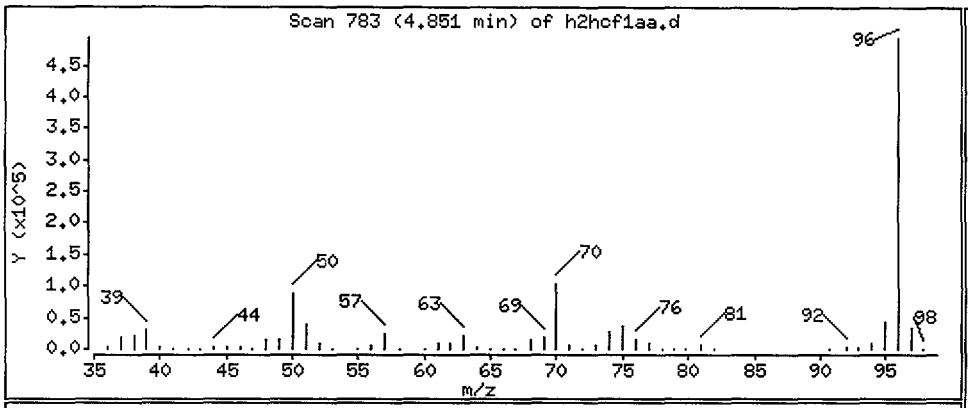
Operator: 22980

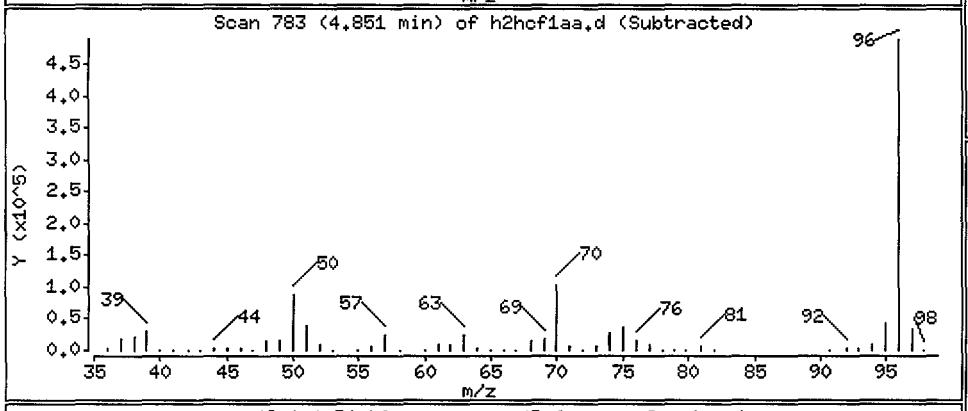
Column phase: J+W 624

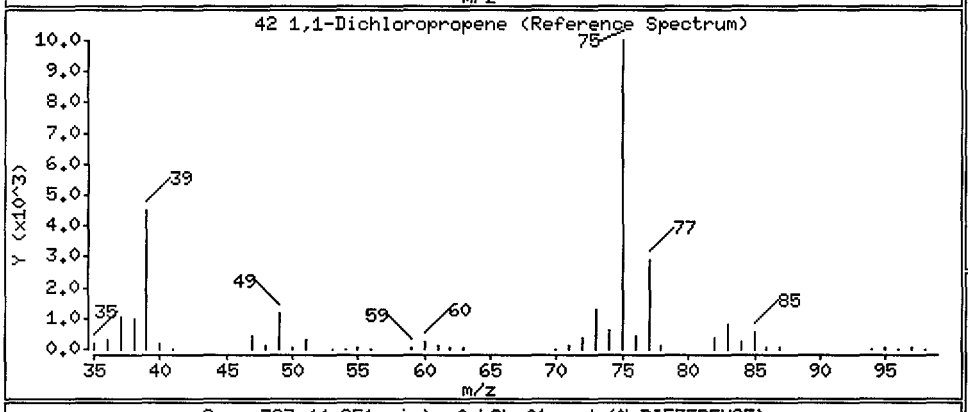
Column diameter: 0.18

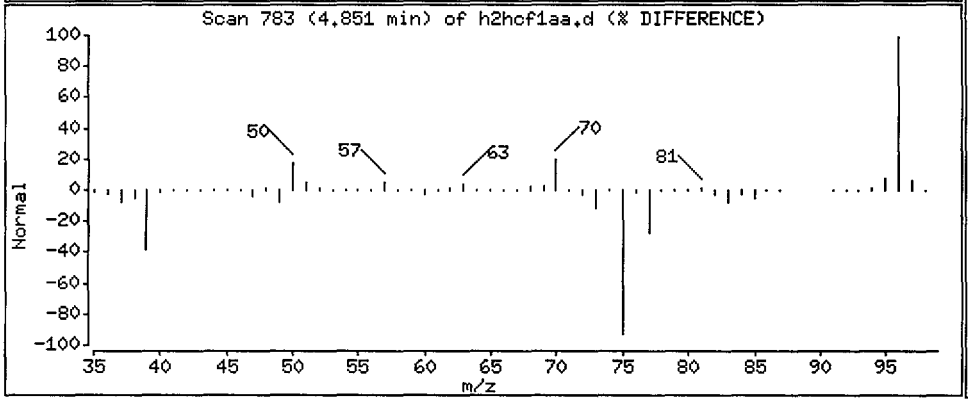
42 1,1-Dichloropropene

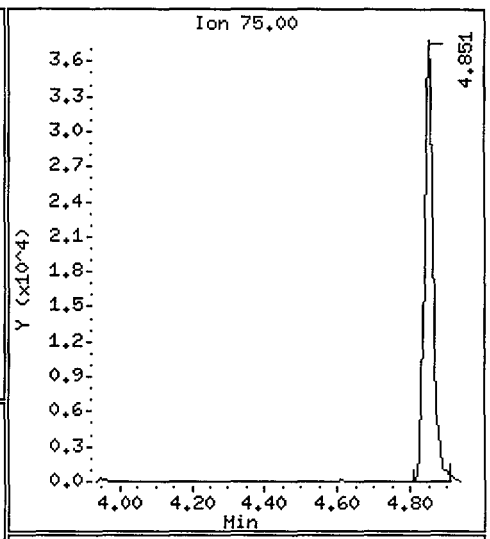
Concentration: 0.048361 ug

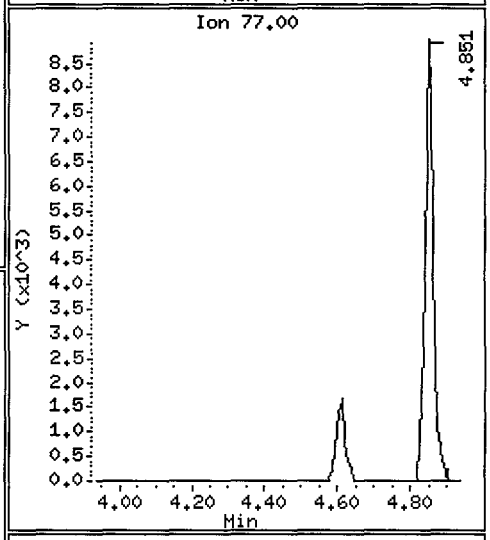


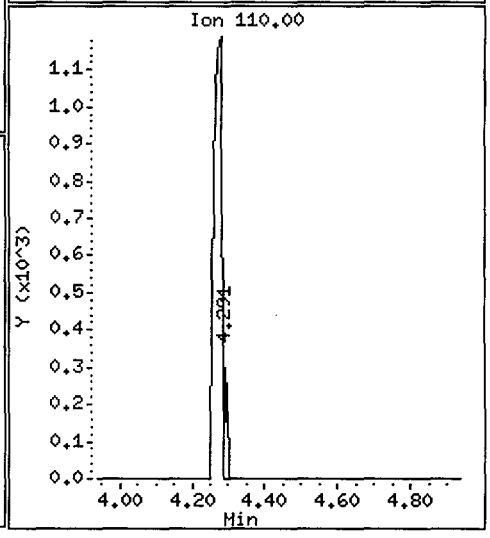












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

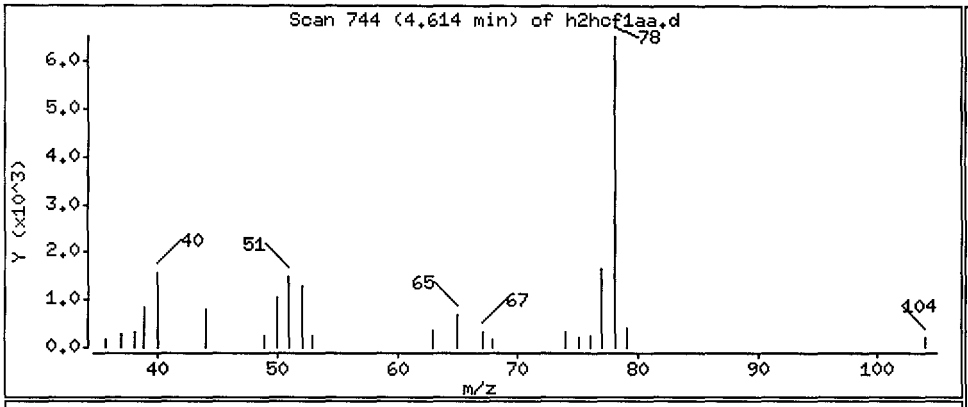
Operator: 22980

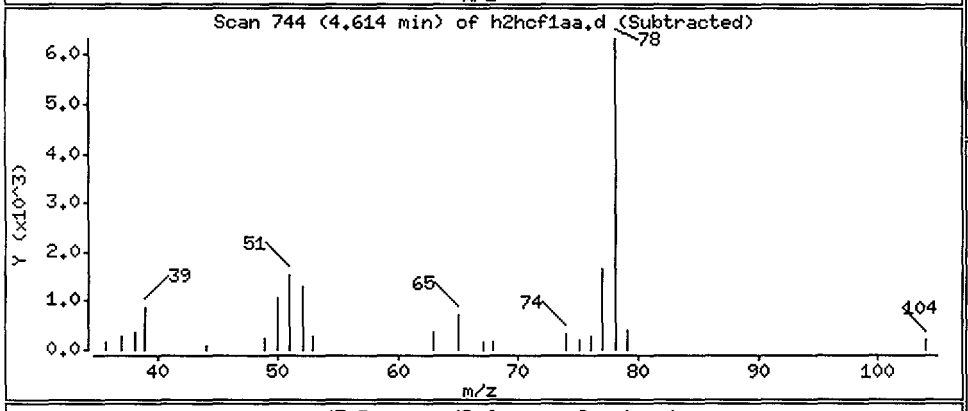
Column phase: J+W 624

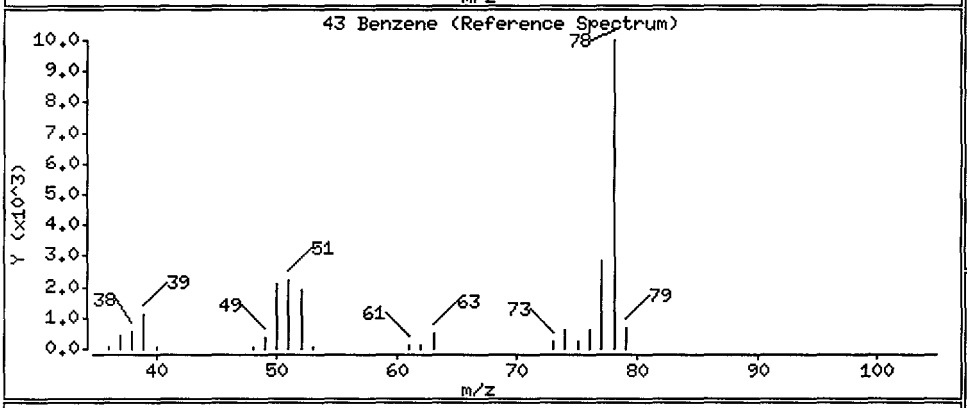
Column diameter: 0.18

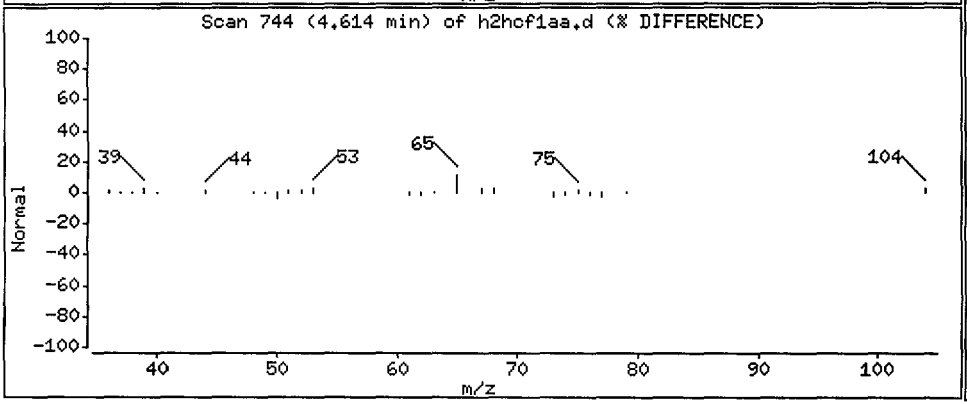
43 Benzene

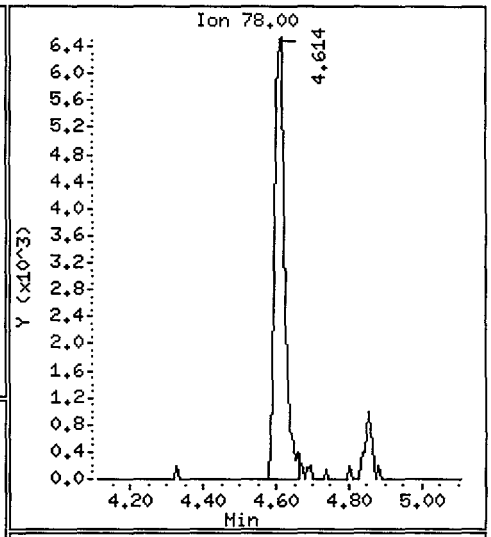
Concentration: 0.0035282 ug

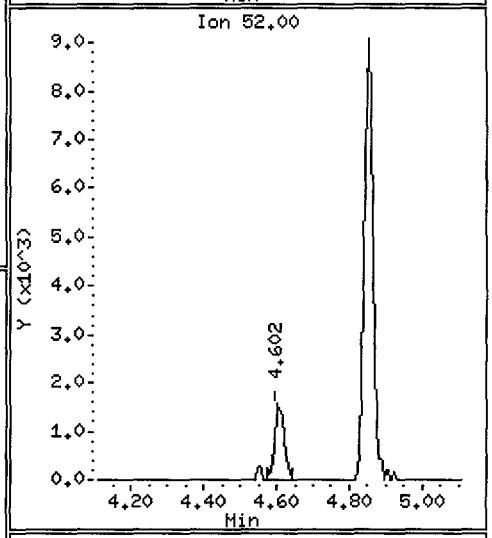


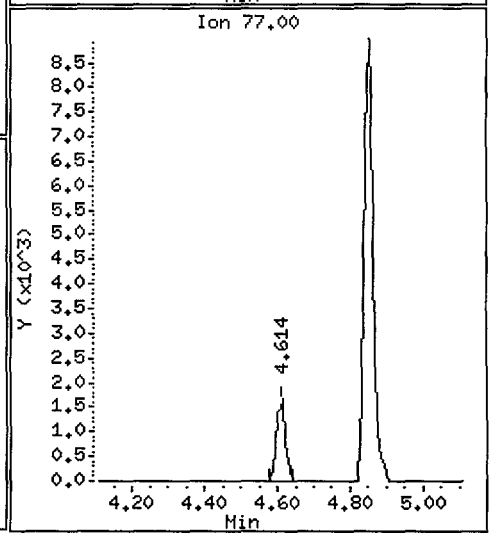












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

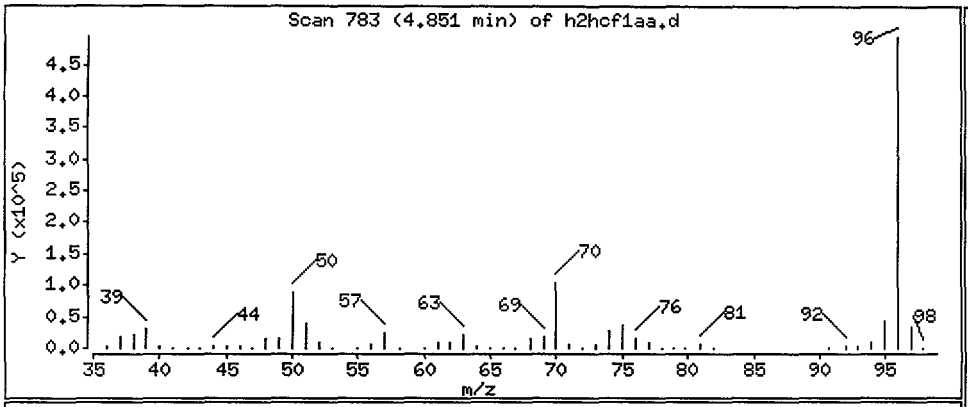
Operator: 22980

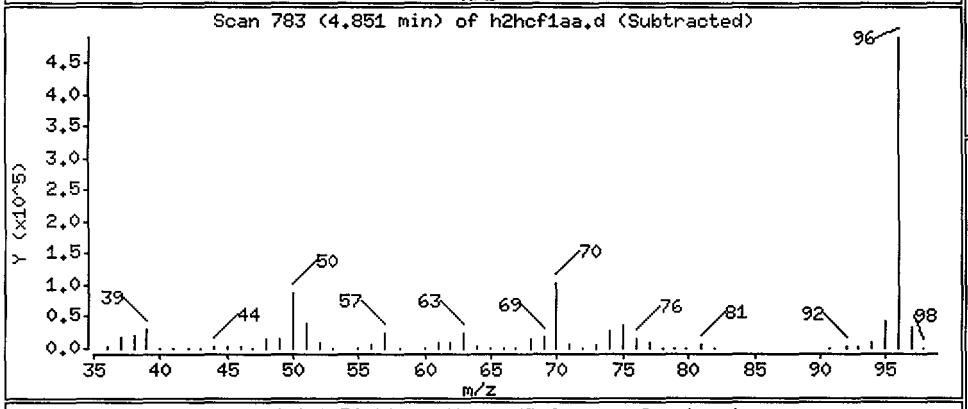
Column phase: J+W 624

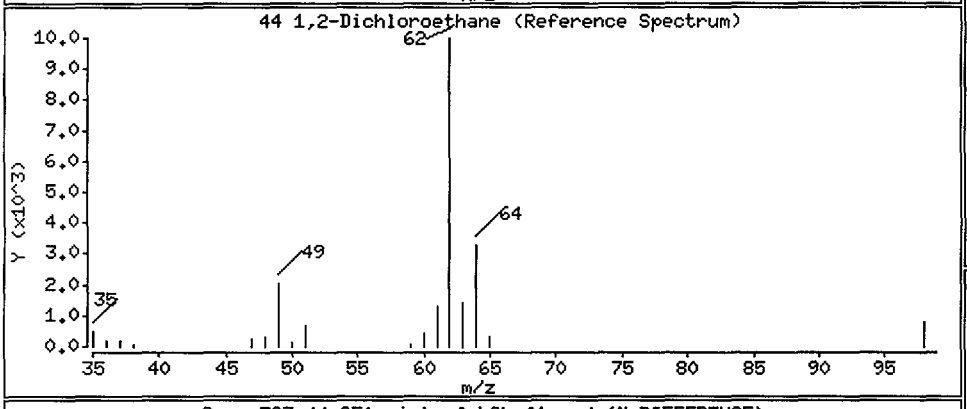
Column diameter: 0.18

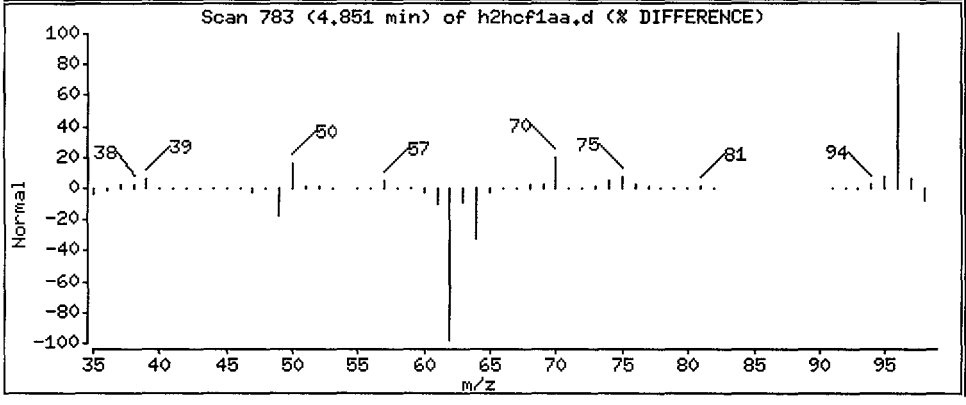
44 1,2-Dichloroethane

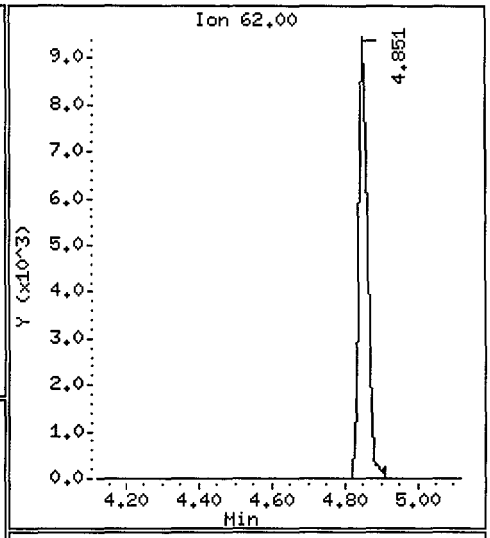
Concentration: 0.026455 ug

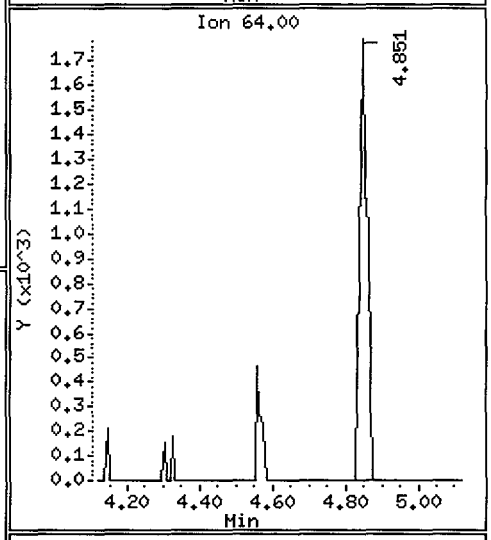


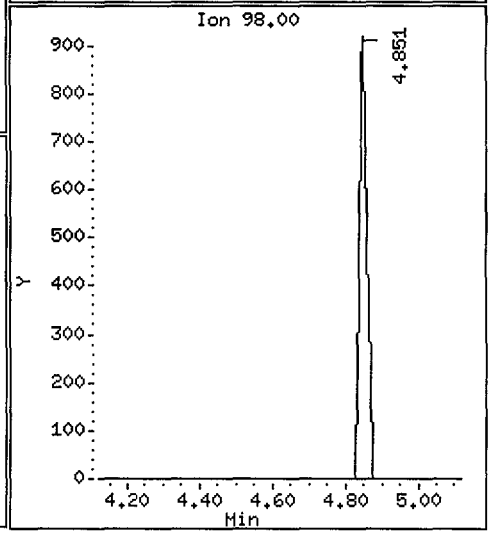












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

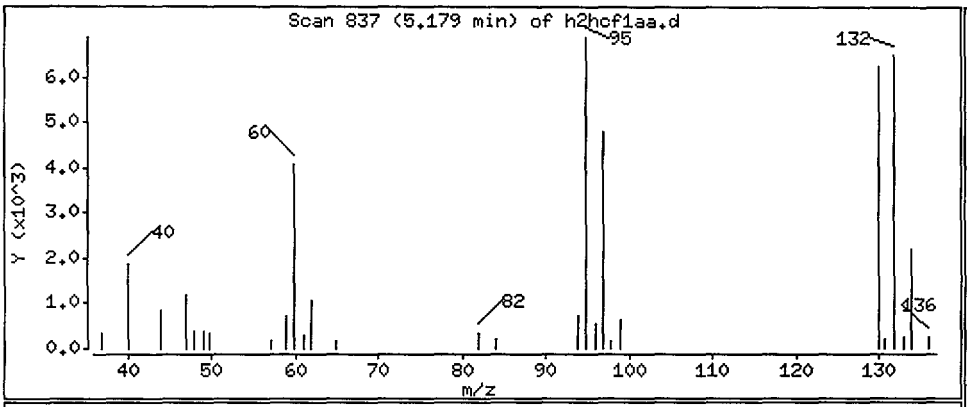
Operator: 22980

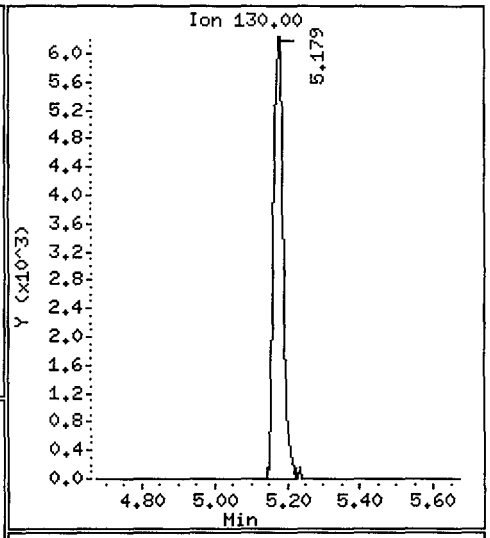
Column phase: J+W 624

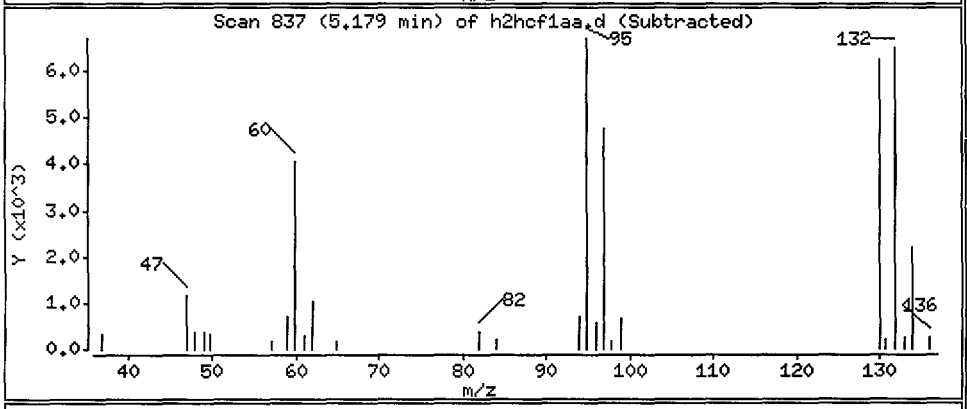
Column diameter: 0.18

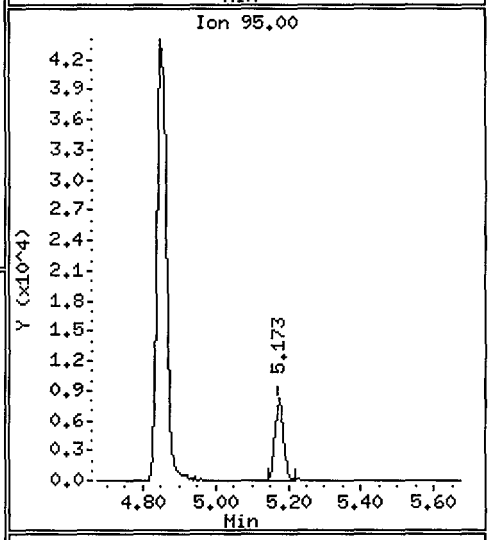
45 Trichloroethene

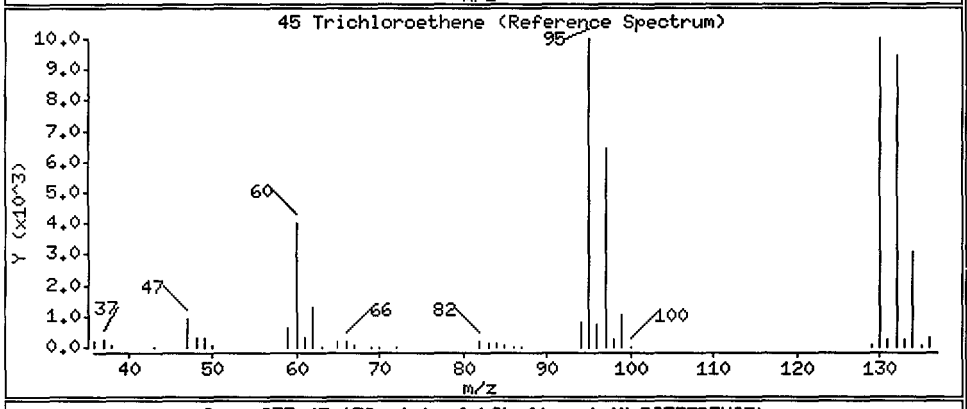
Concentration: 0.011869 ug

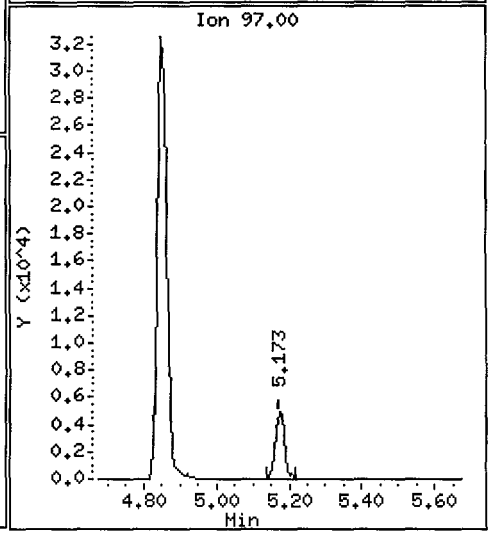


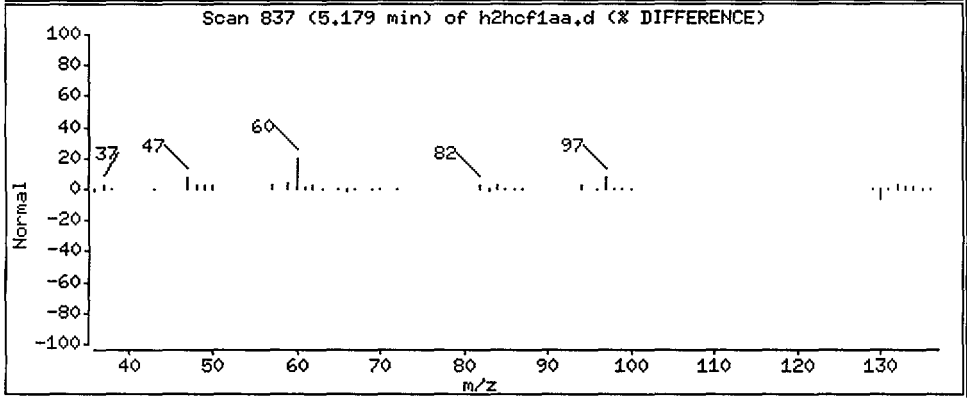












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

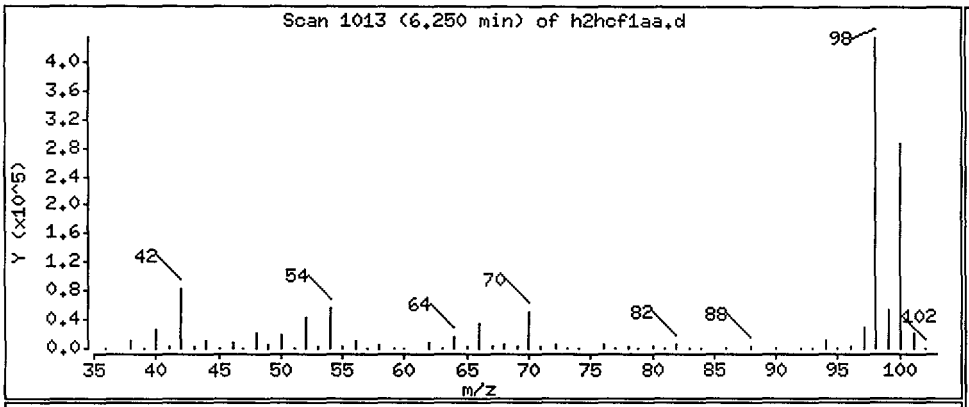
Operator: 22980

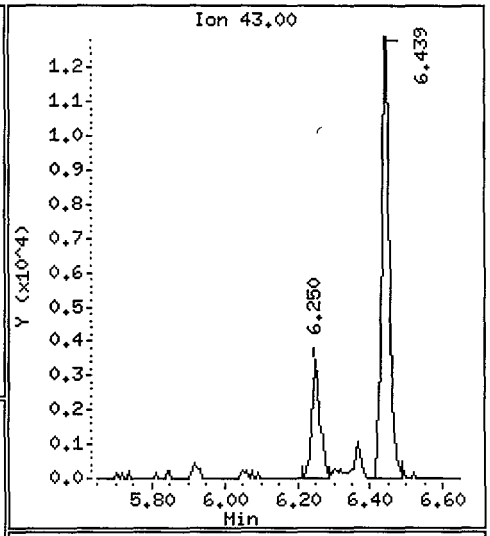
Column phase: J+W 624

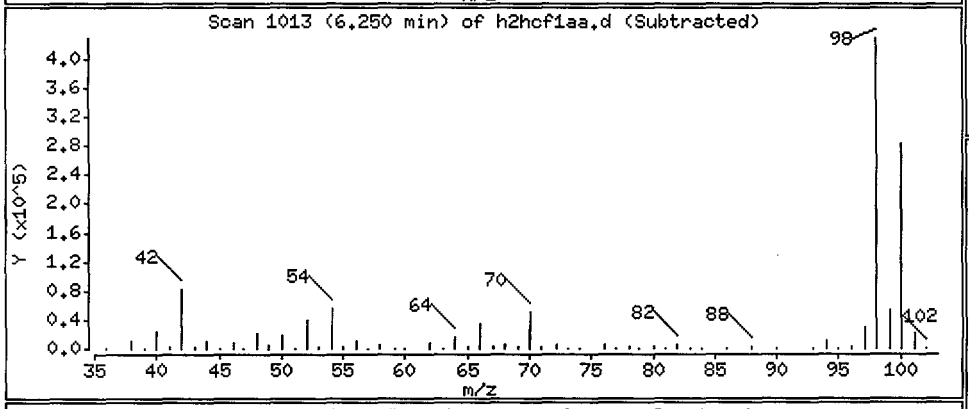
Column diameter: 0.18

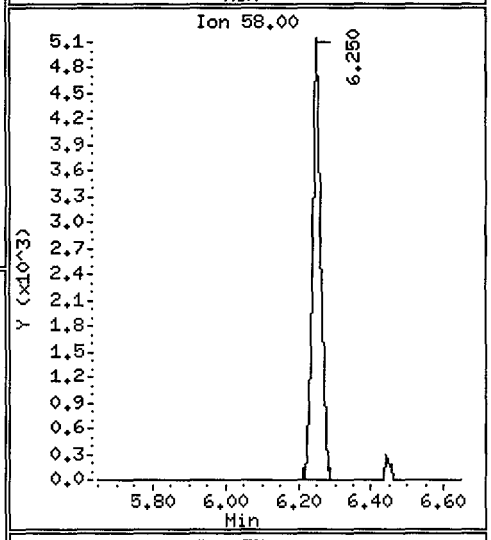
52 4-Methyl-2-pentanone

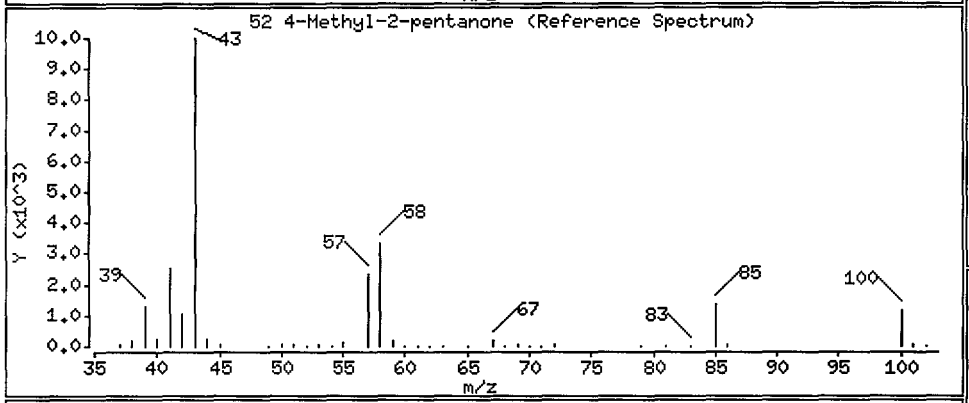
Concentration: 0.029722 ug

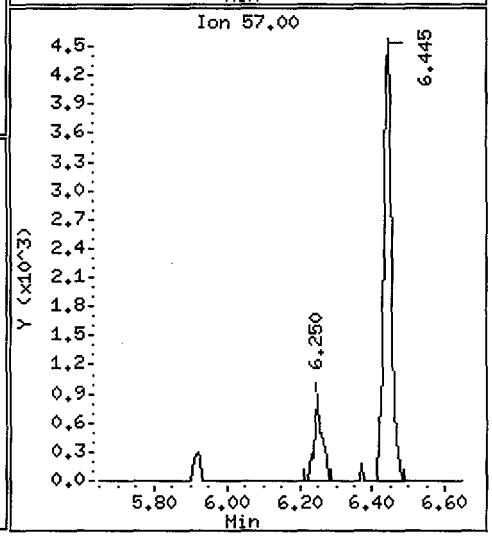


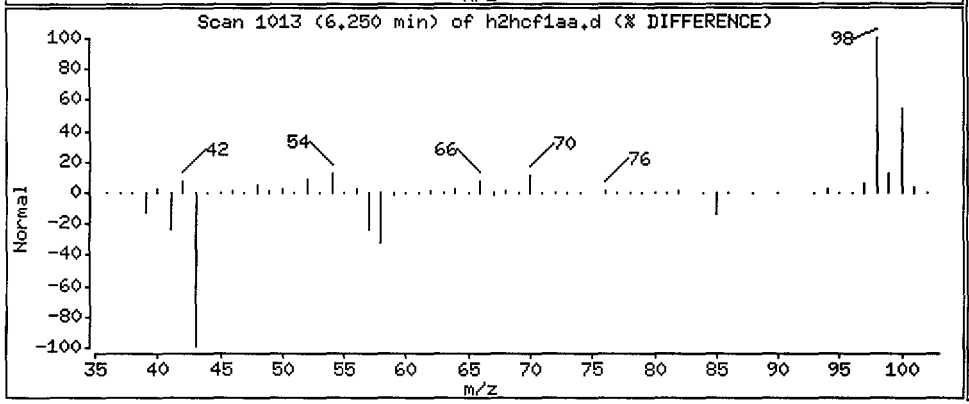












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

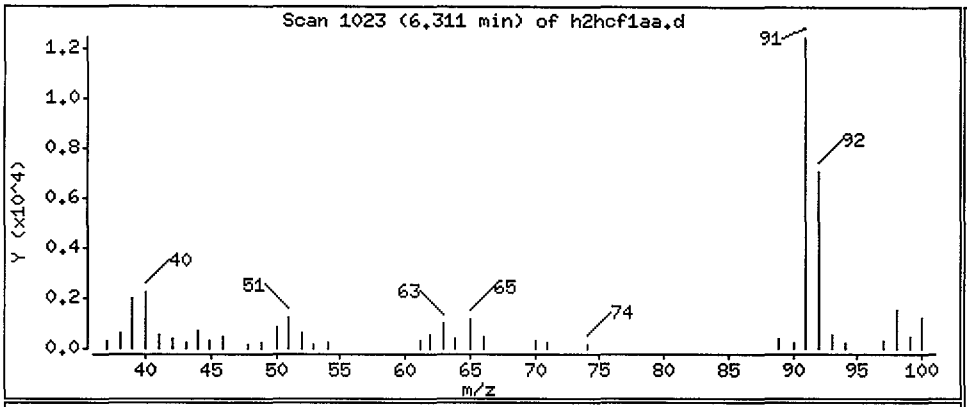
Operator: 22980

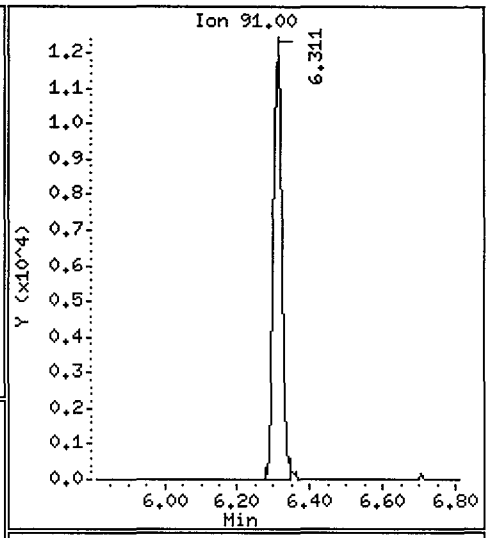
Column phase: J+W 624

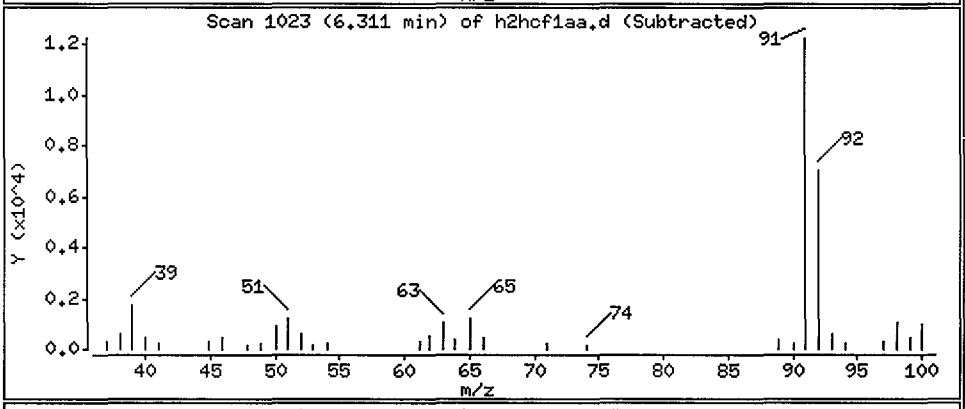
Column diameter: 0.18

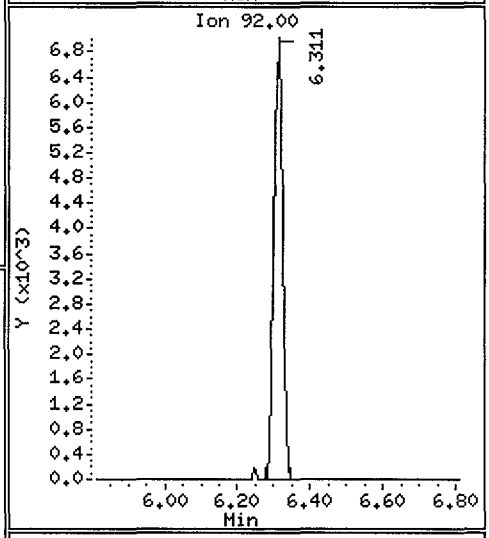
53 Toluene (ccc)

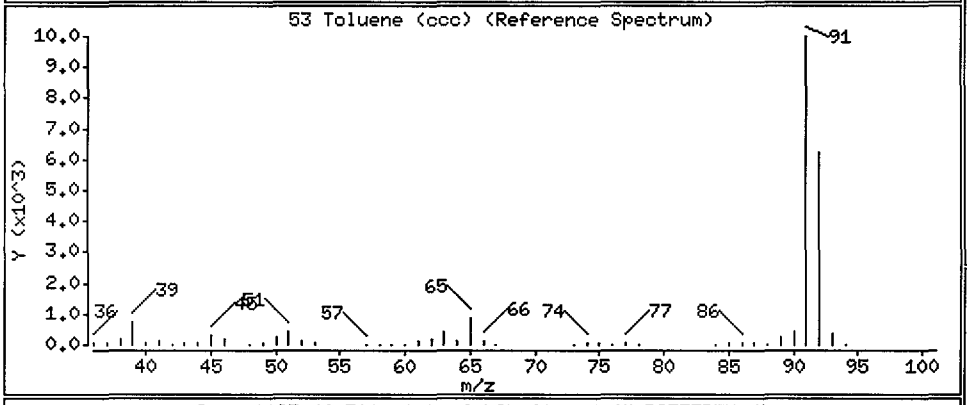
Concentration: 0.0039511 ug

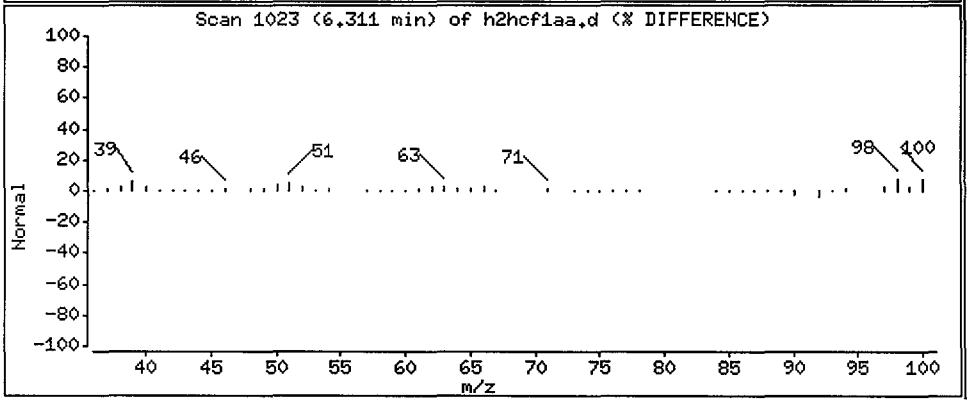


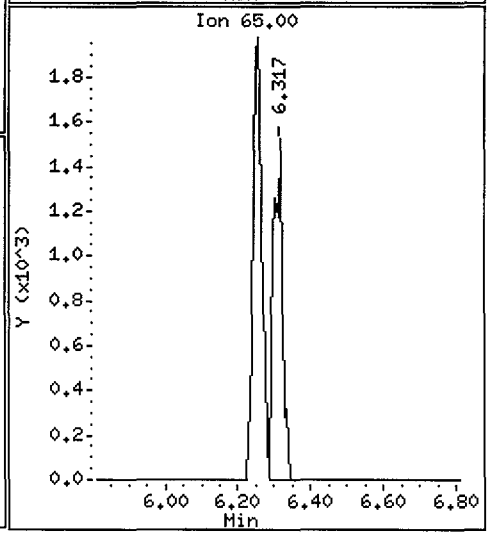












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

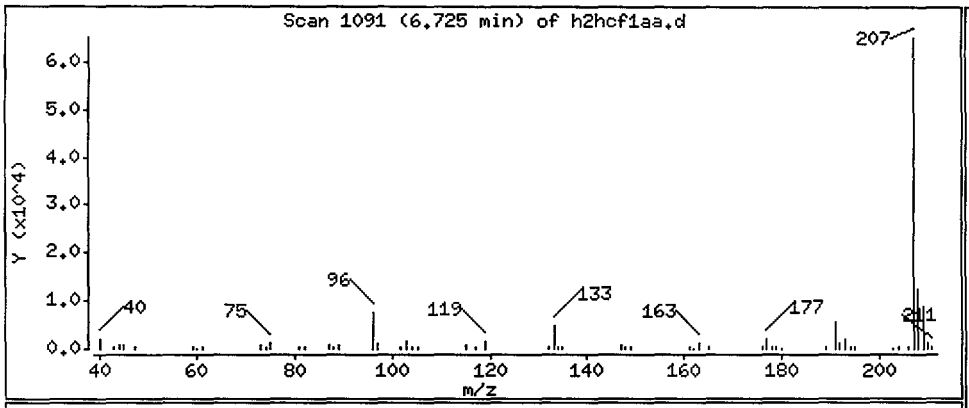
Operator: 22980

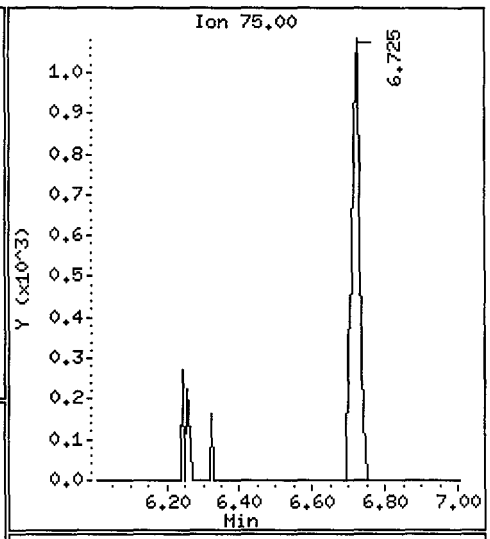
Column phase: J+W 624

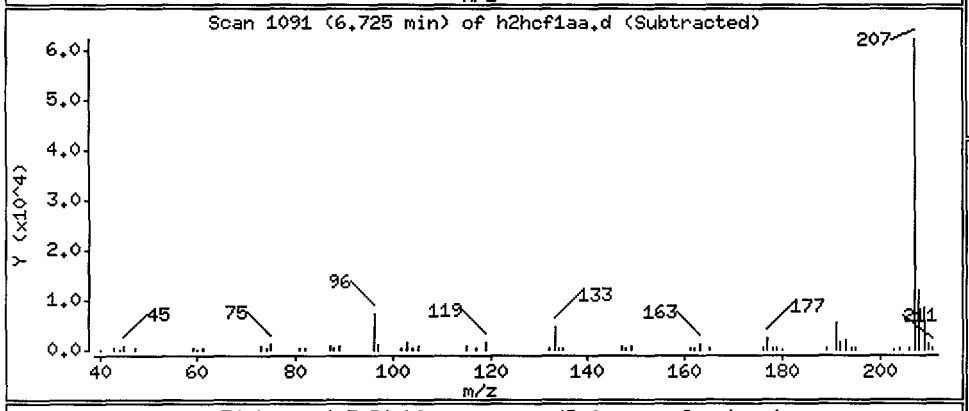
Column diameter: 0.18

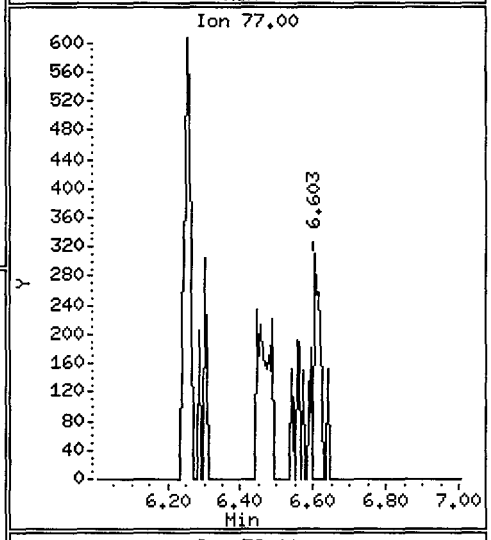
54 trans-1,3-Dichloropropene

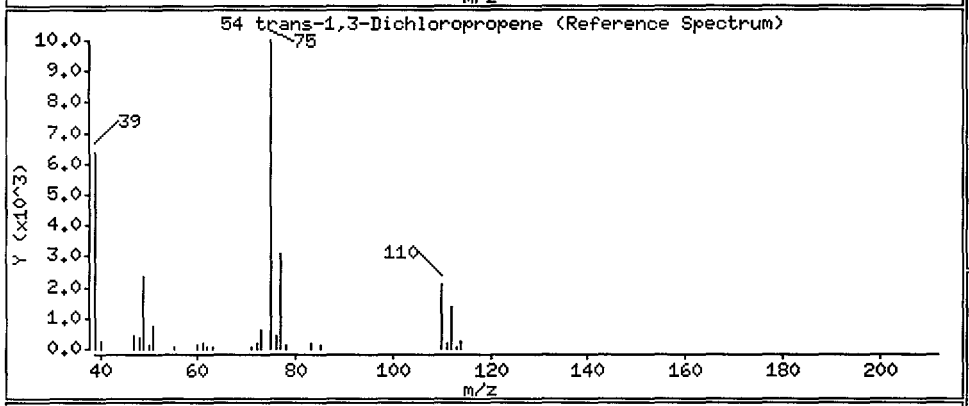
Concentration: 0.0020980 ug

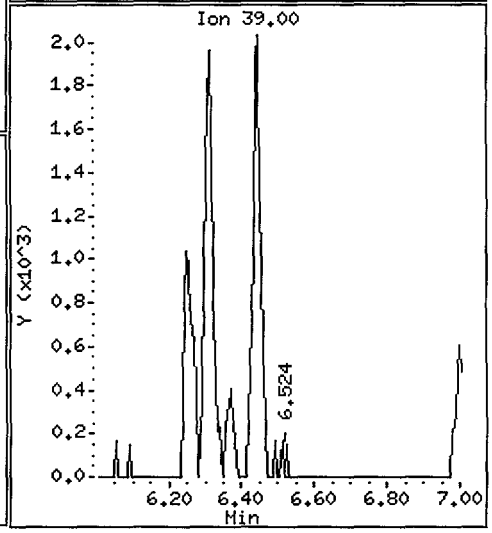


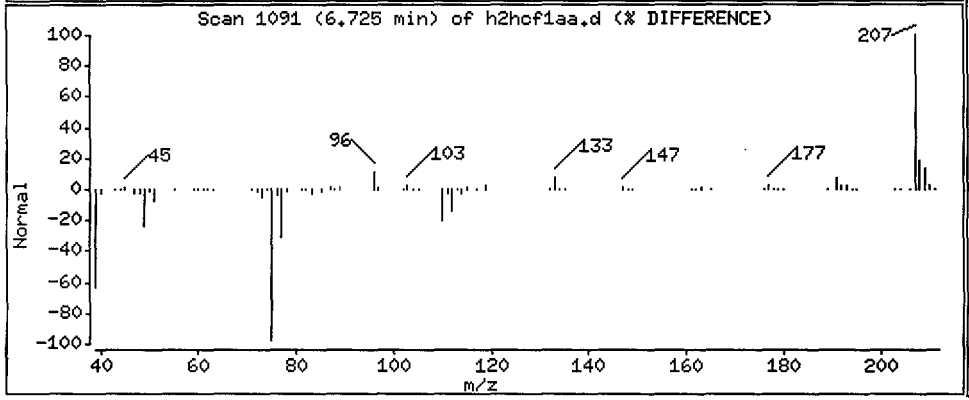












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

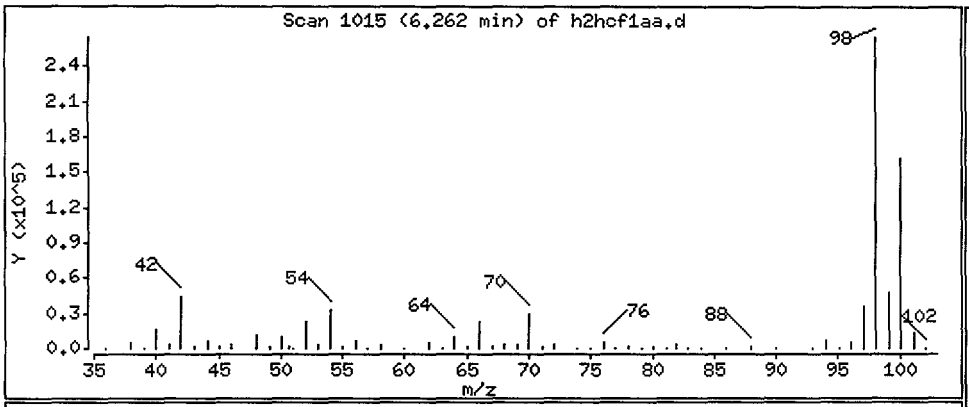
Operator: 22980

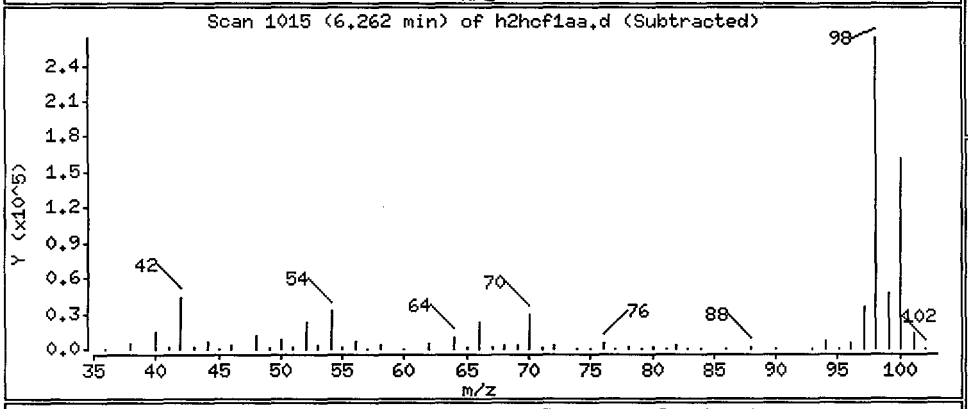
Column phase: J+W 624

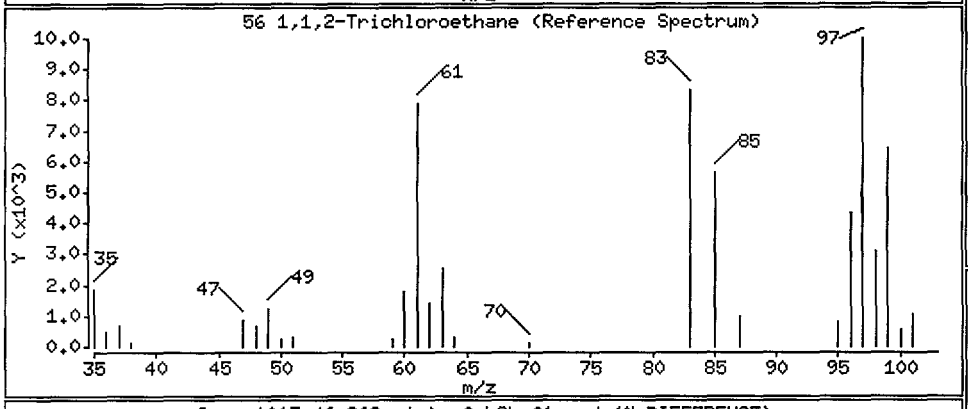
Column diameter: 0.18

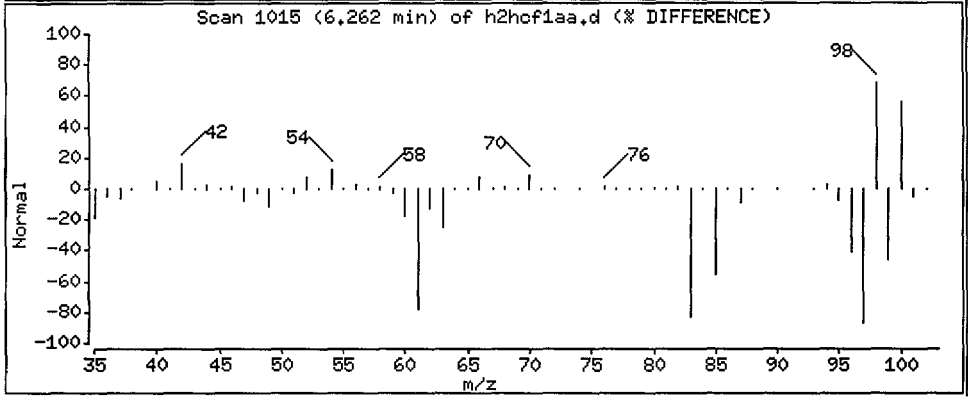
56 1,1,2-Trichloroethane

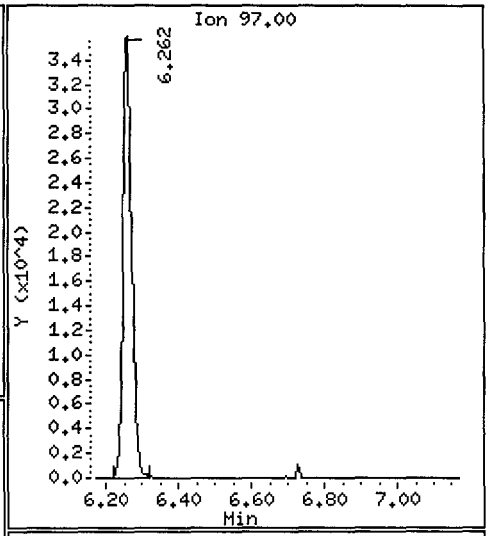
Concentration: 0.17017 ug

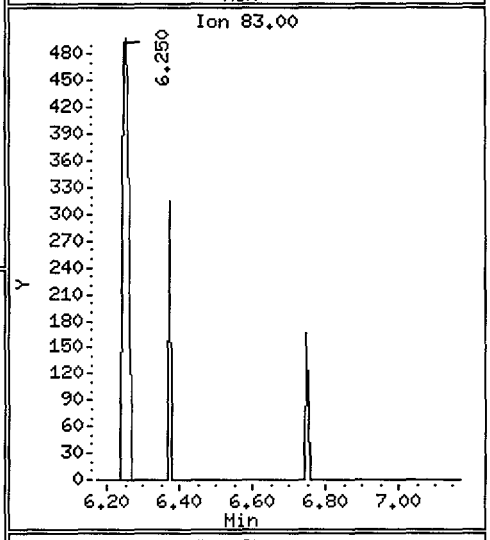


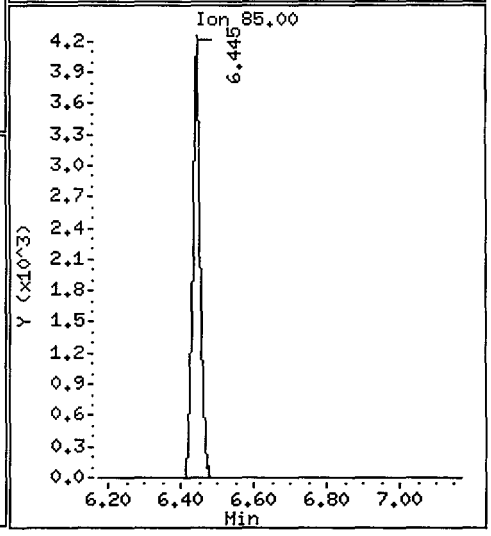












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

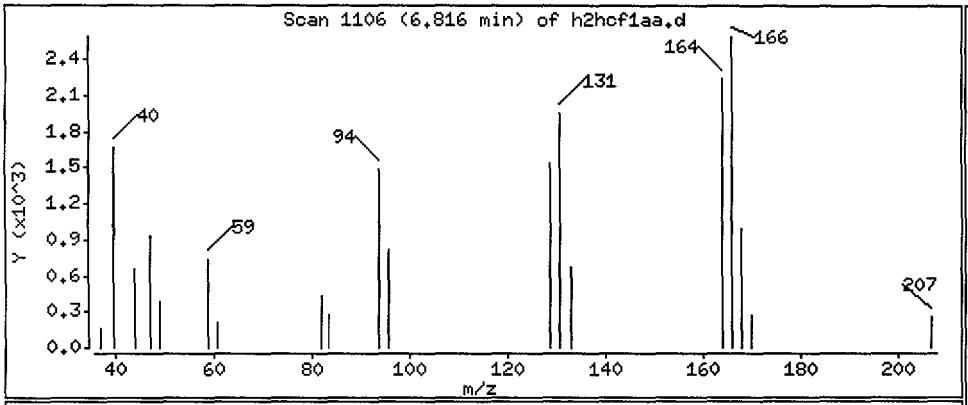
Operator: 22980

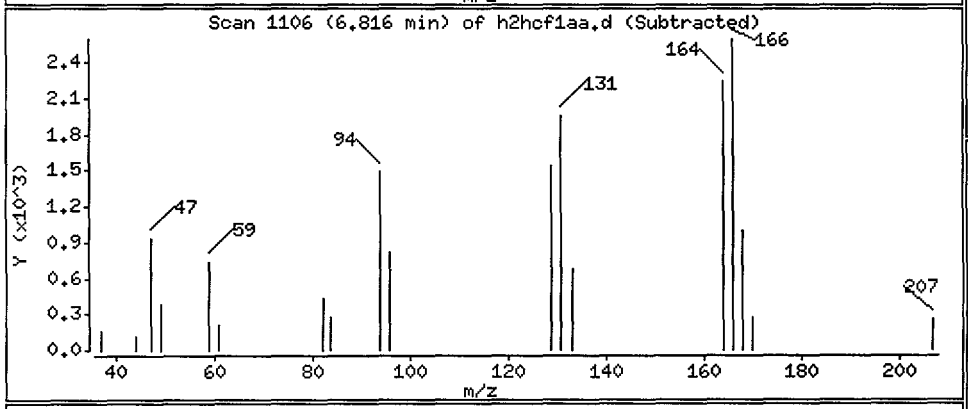
Column phase: J+W 624

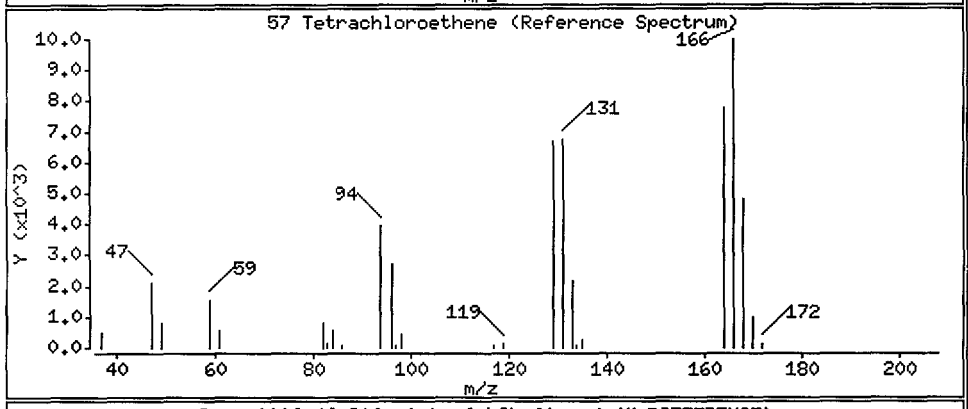
Column diameter: 0.18

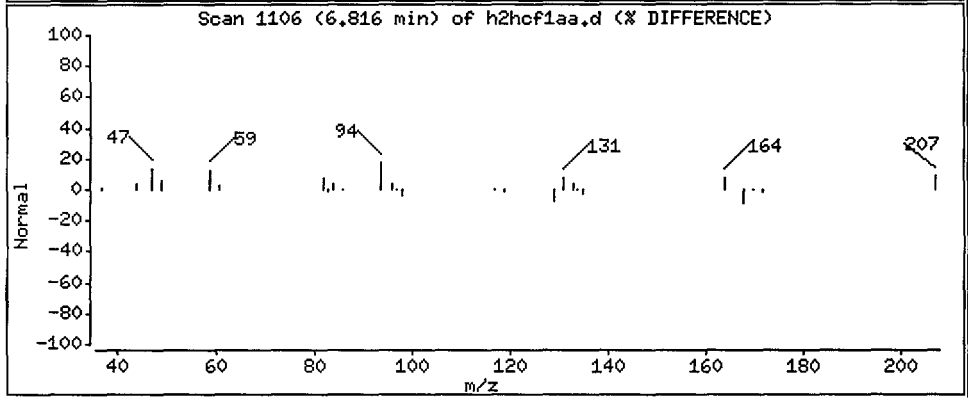
57 Tetrachloroethene

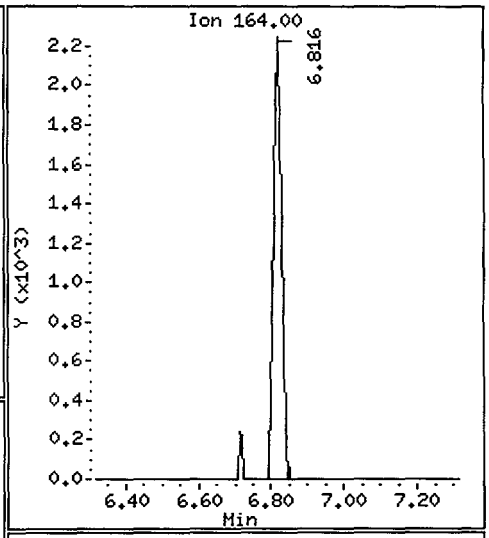
Concentration: 0.0031774 ug

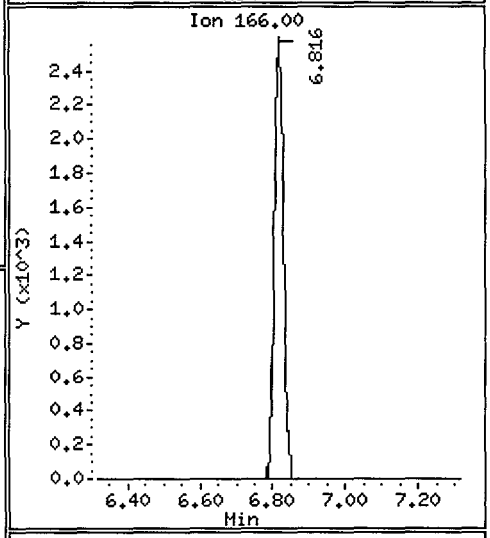


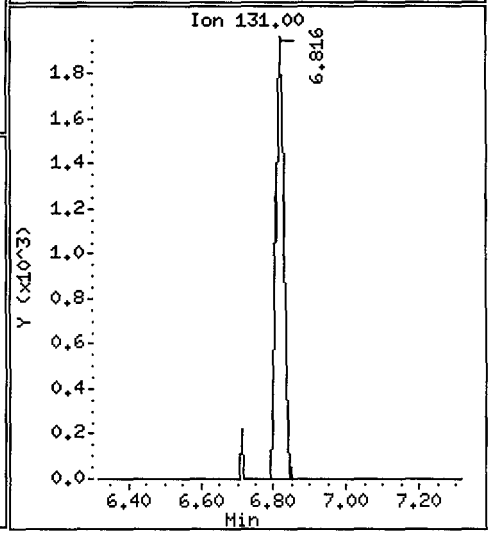












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

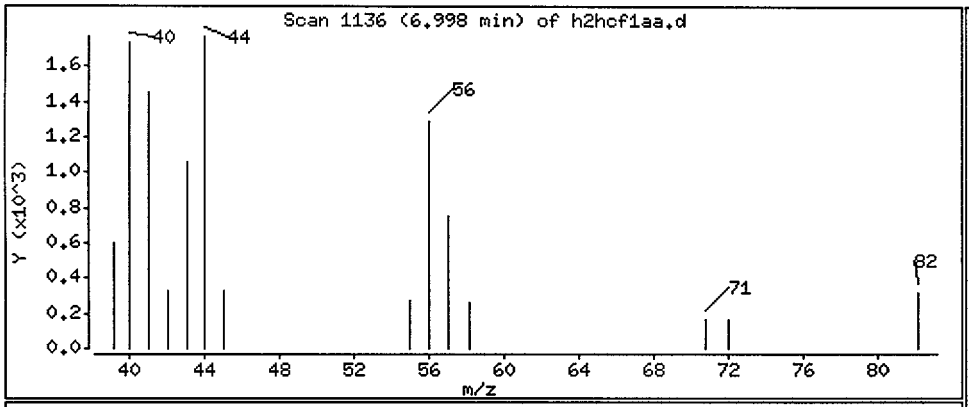
Operator: 22980

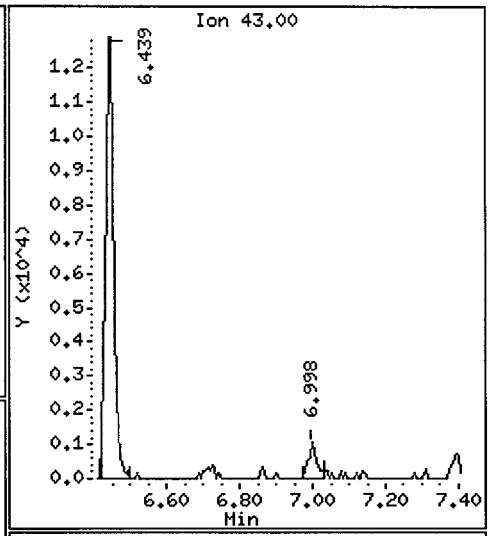
Column phase: J+W 624

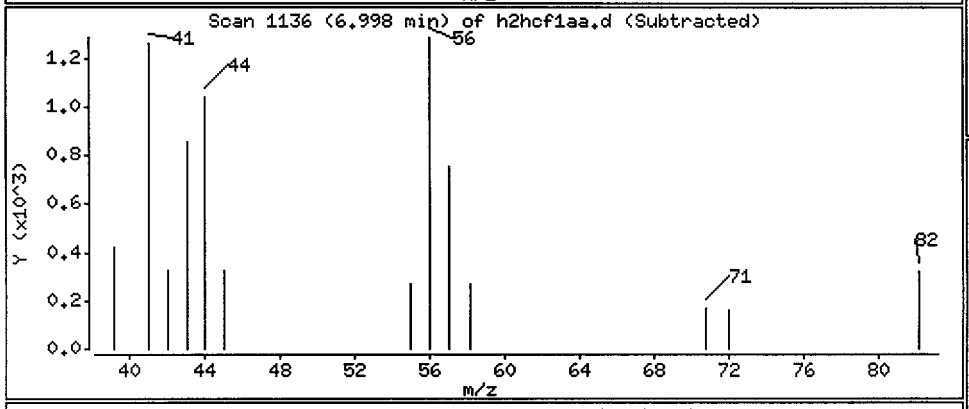
Column diameter: 0.18

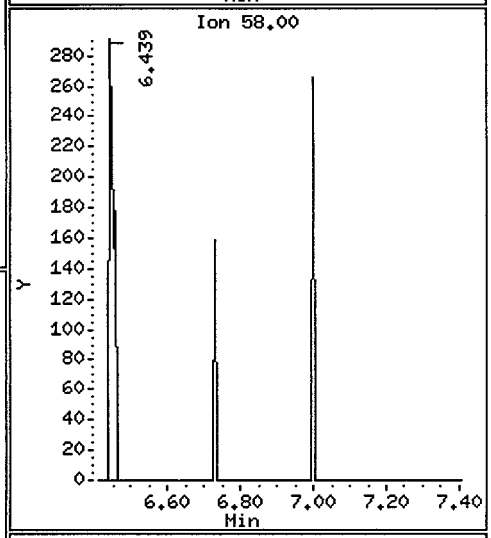
59 2-Hexanone

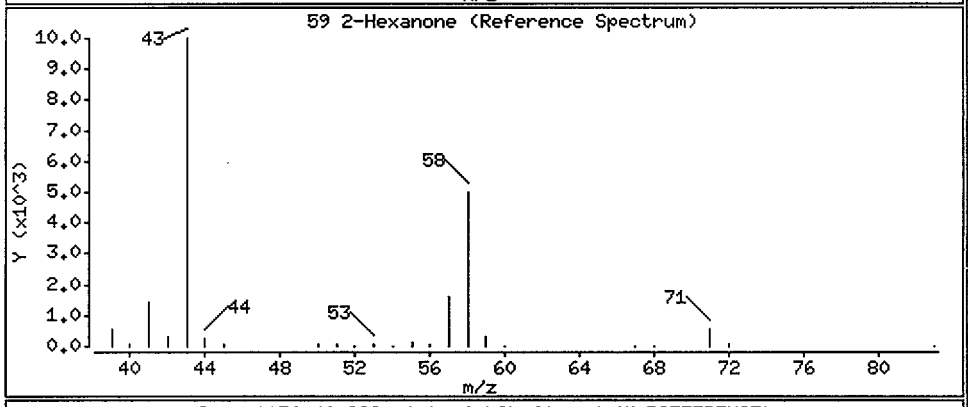
Concentration: 0.010075 ug

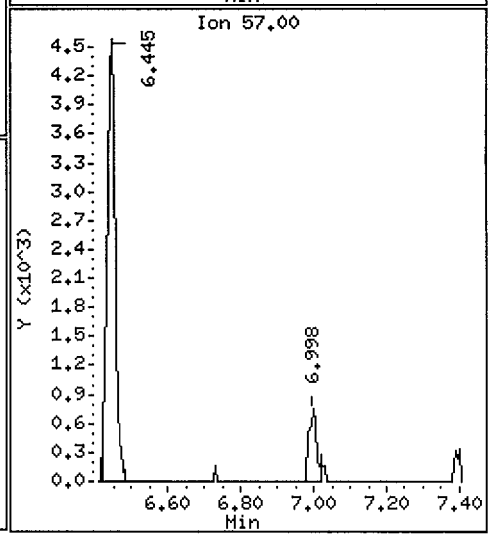


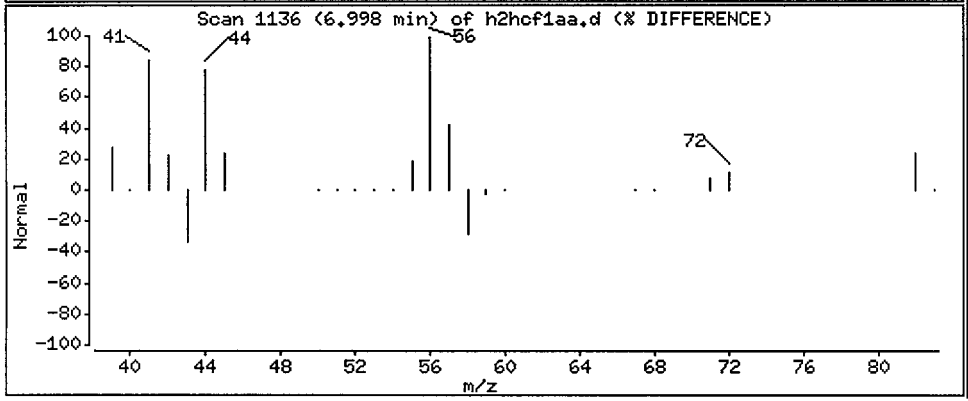












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

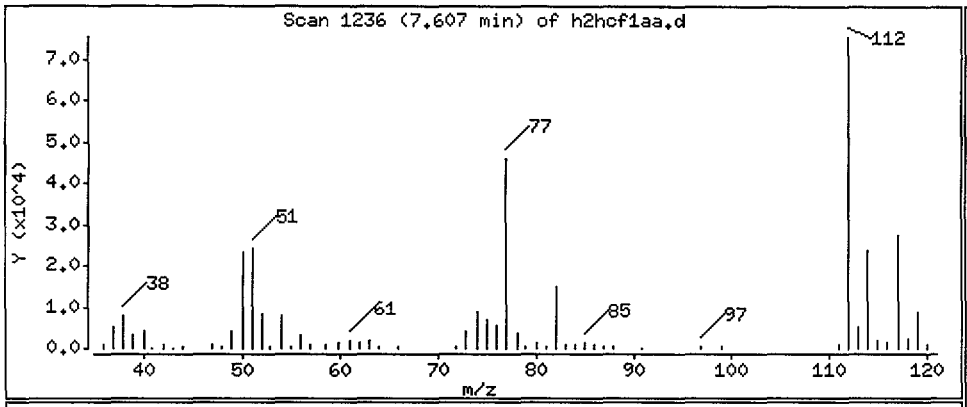
Operator: 22980

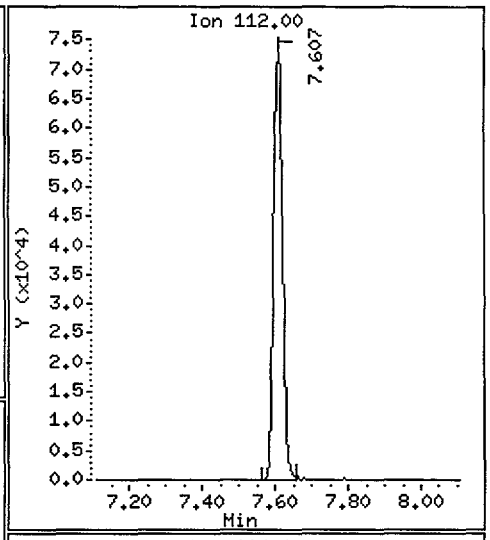
Column phase: J+W 624

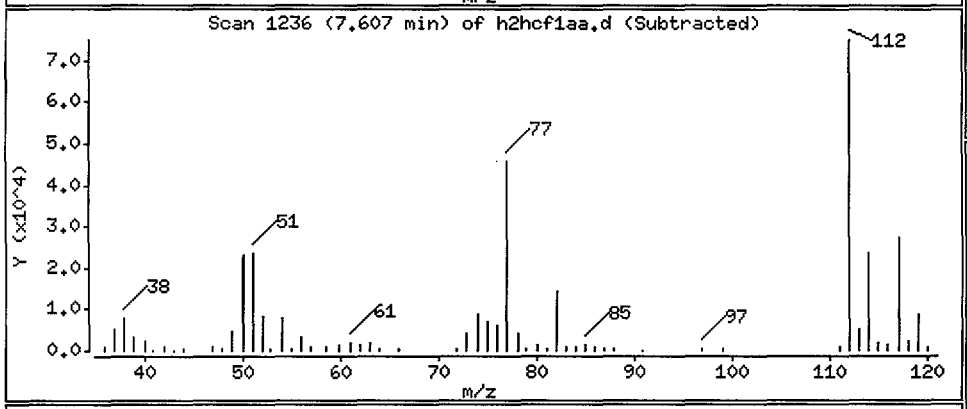
Column diameter: 0.18

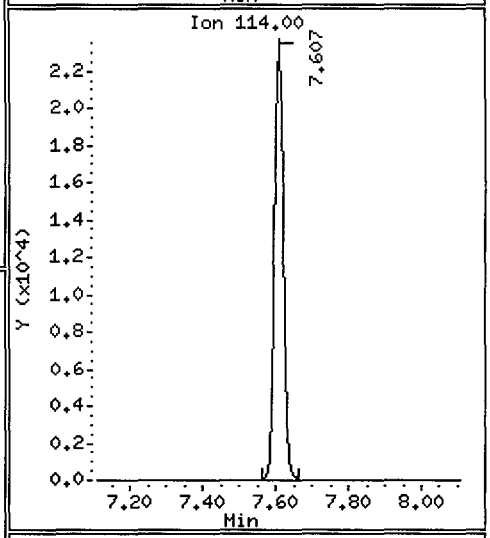
62 Chlorobenzene (spcc)

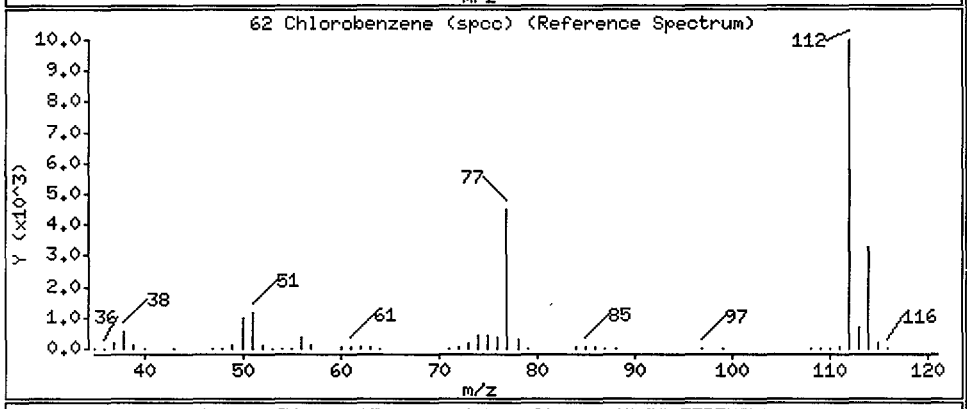
Concentration: 0.049225 ug

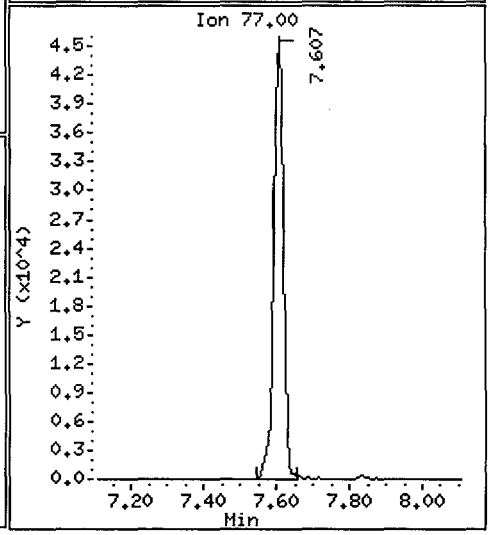


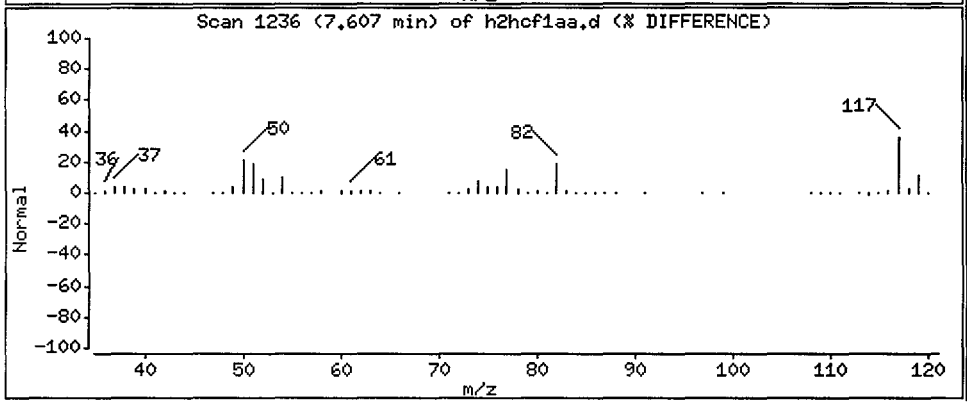












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

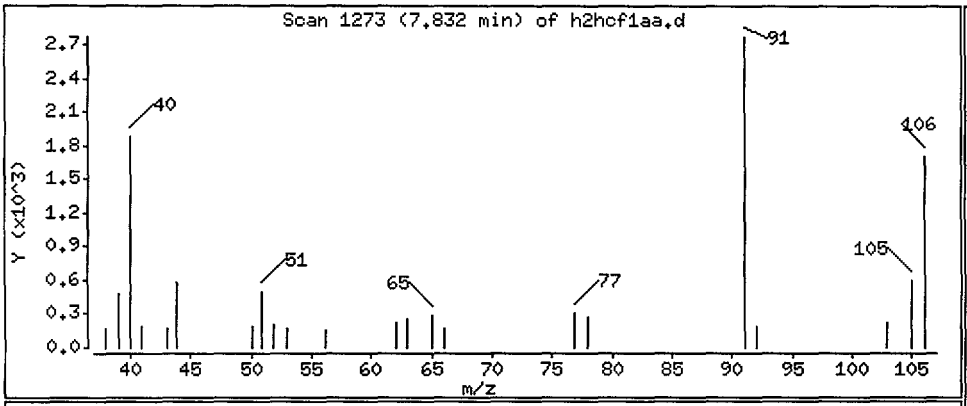
Operator: 22980

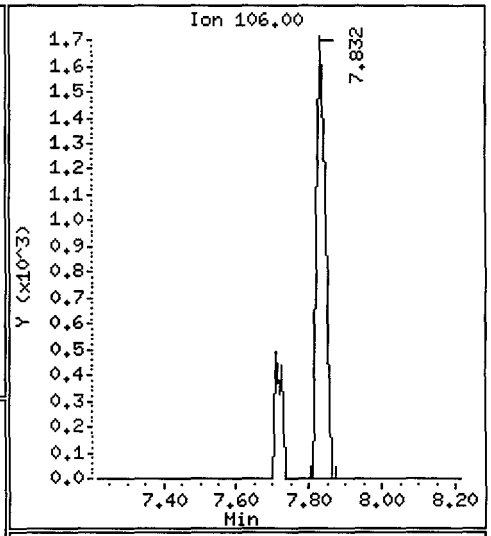
Column phase: J+W 624

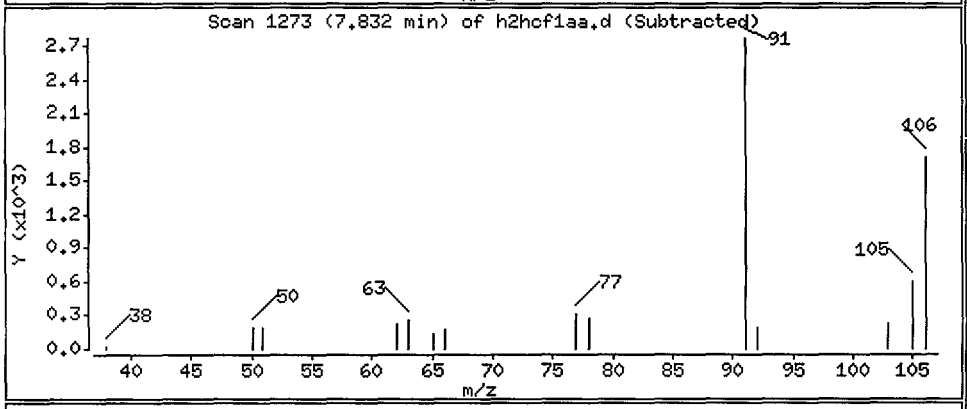
Column diameter: 0.18

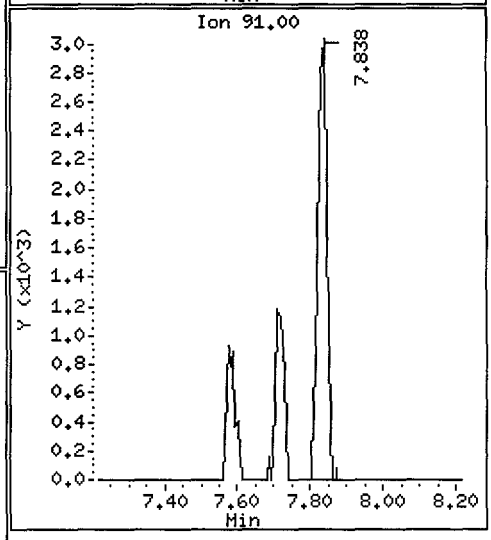
64 Ethylbenzene (ccc)

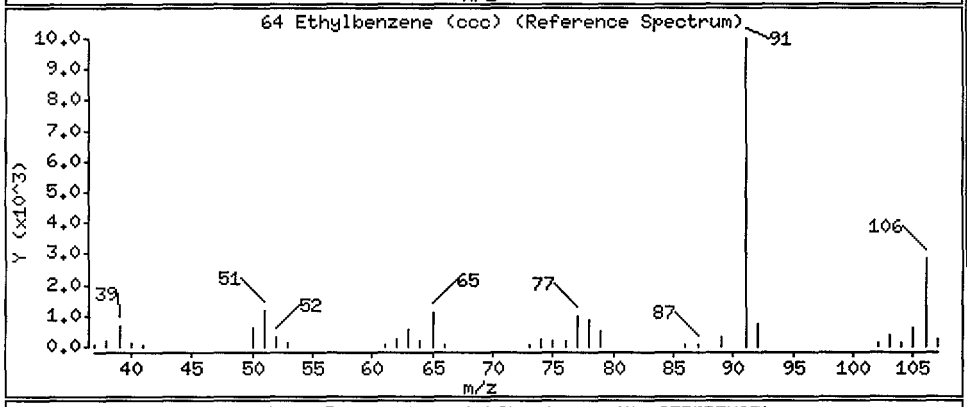
Concentration: 0.0016418 ug

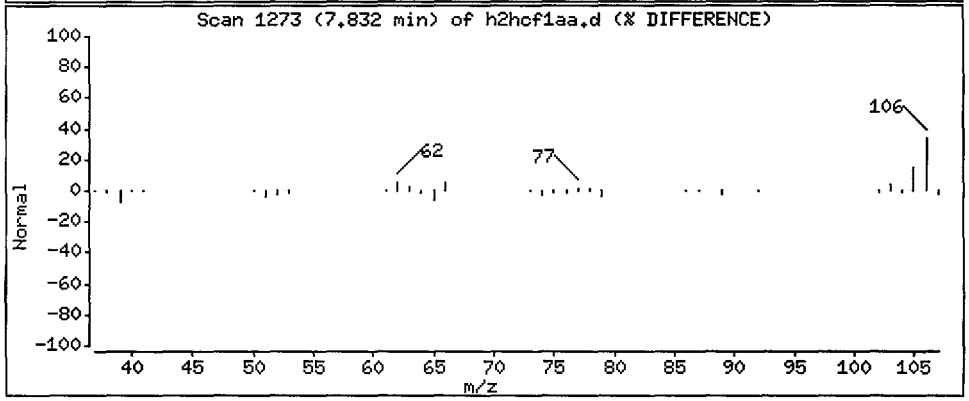












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

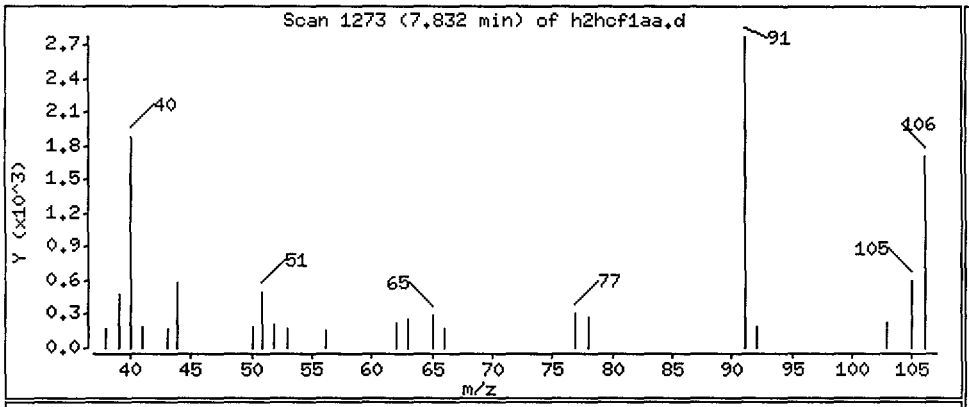
Operator: 22980

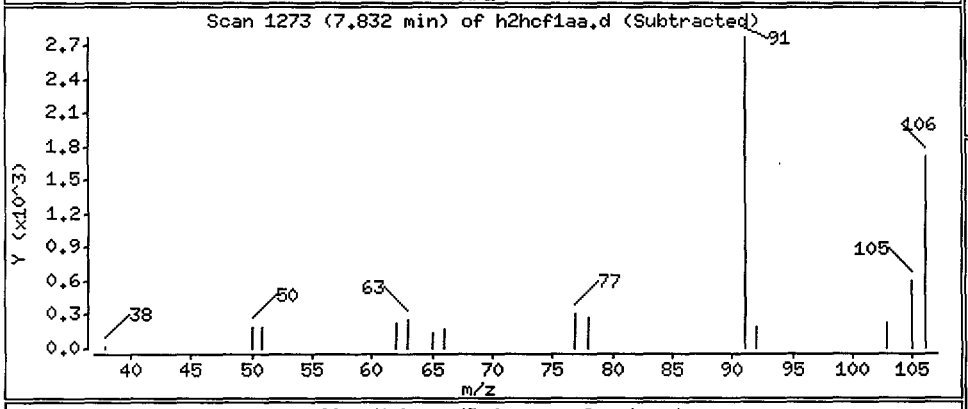
Column phase: J+W 624

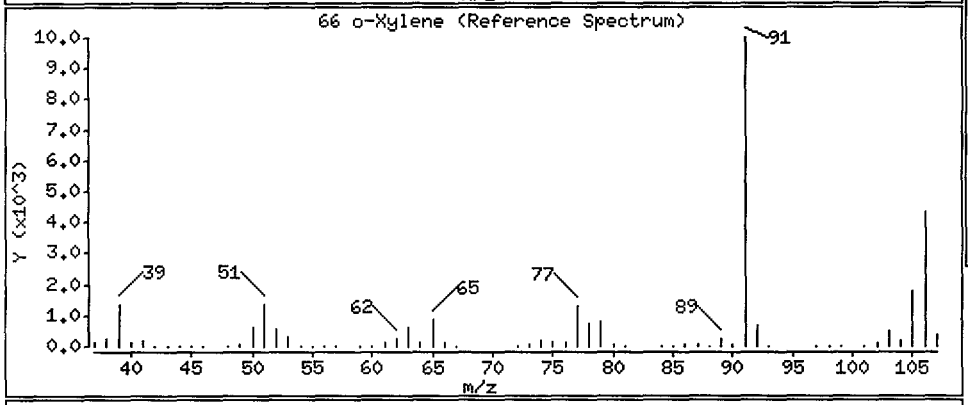
Column diameter: 0.18

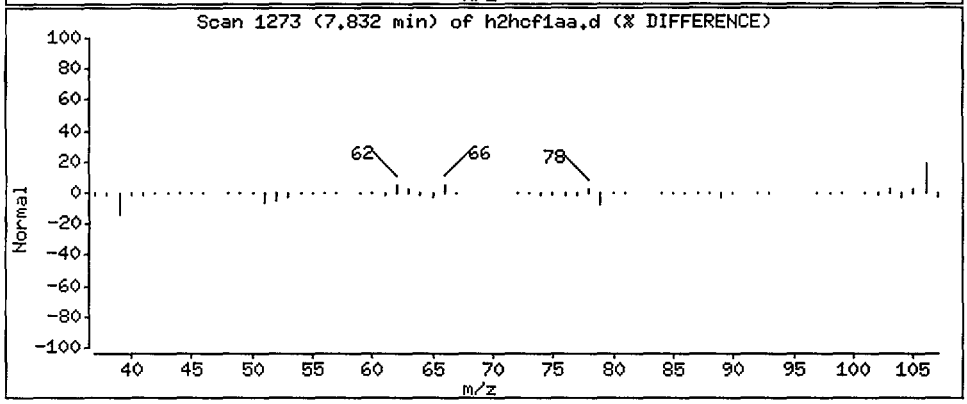
66 o-Xylene

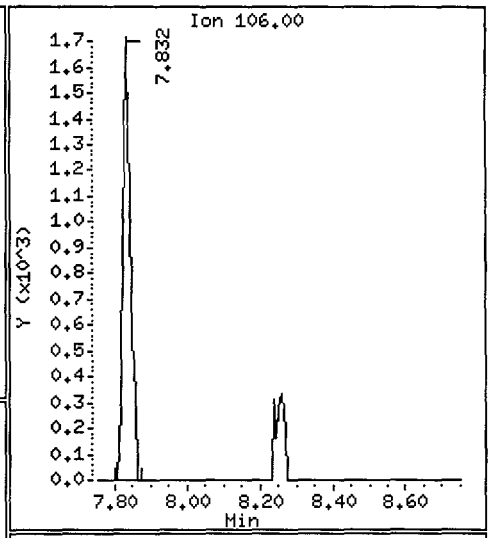
Concentration: 0.0016341 ug

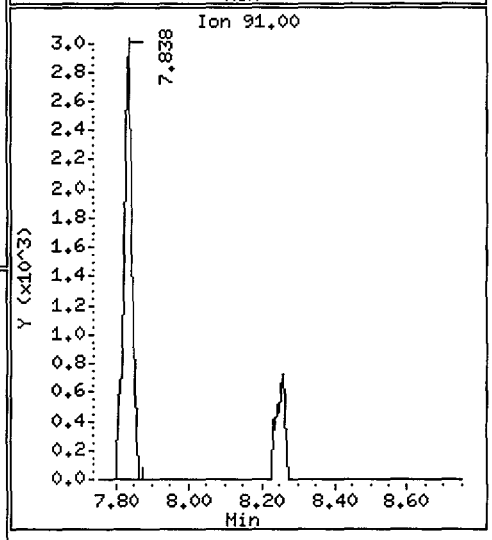












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

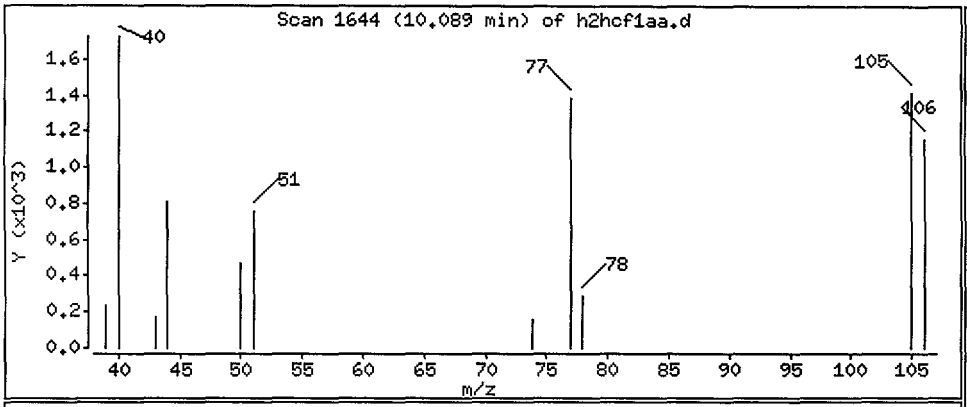
Operator: 22980

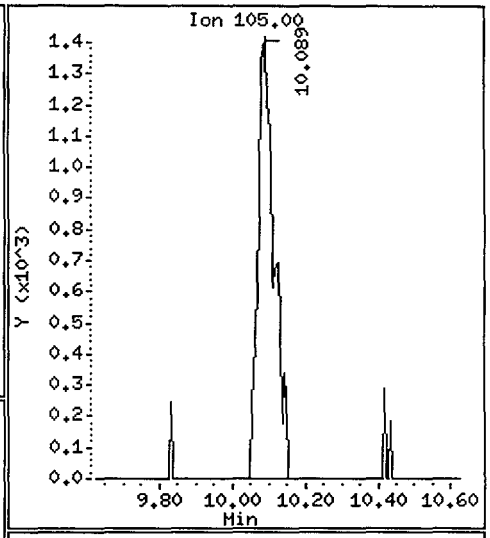
Column phase: J+W 624

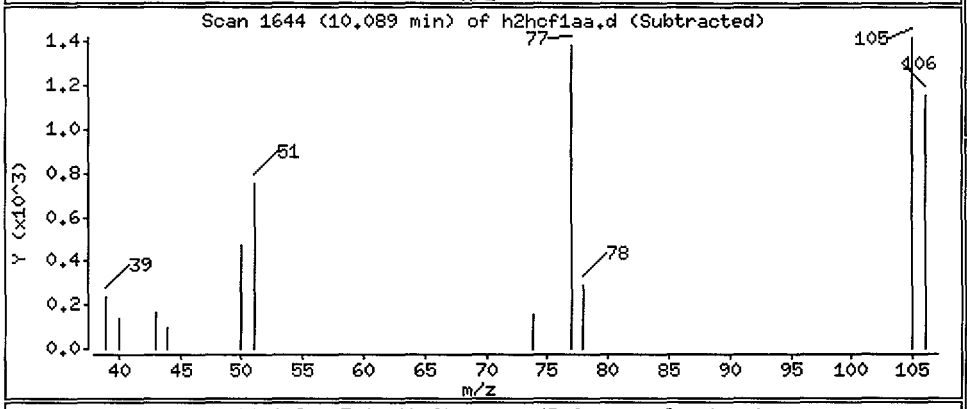
Column diameter: 0.18

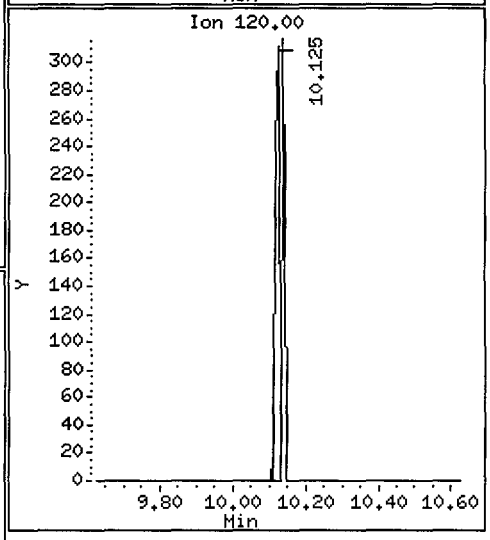
80 1,2,4-Trimethylbenzene

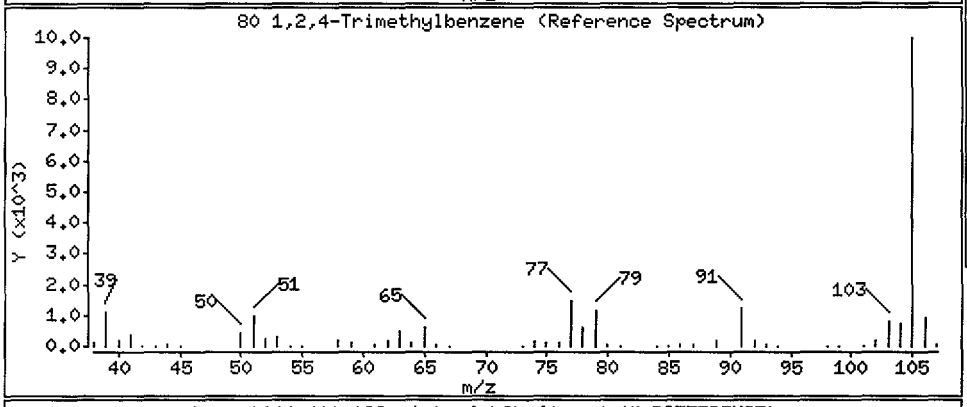
Concentration: 0.0014550 ug

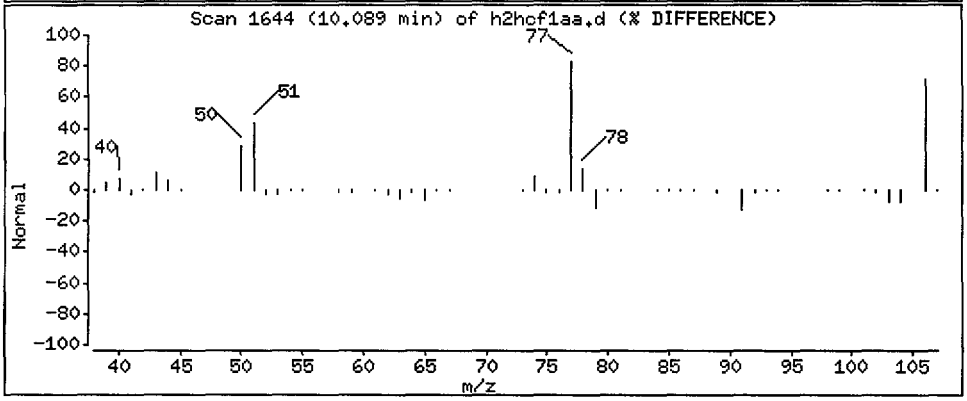












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

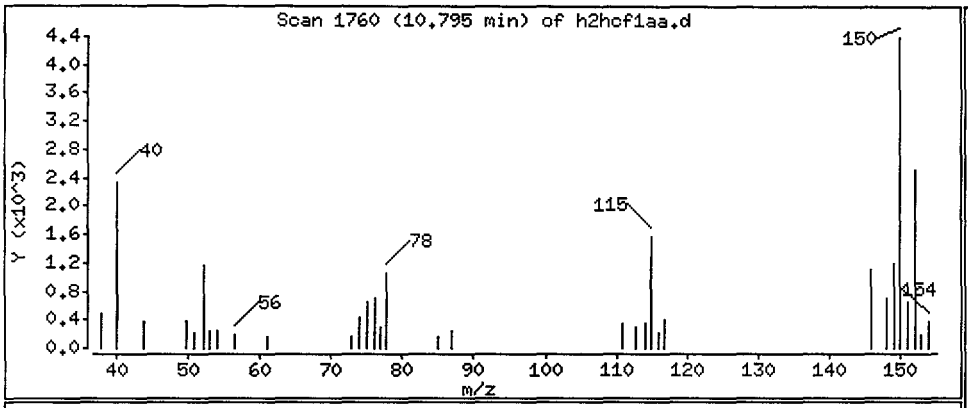
Operator: 22980

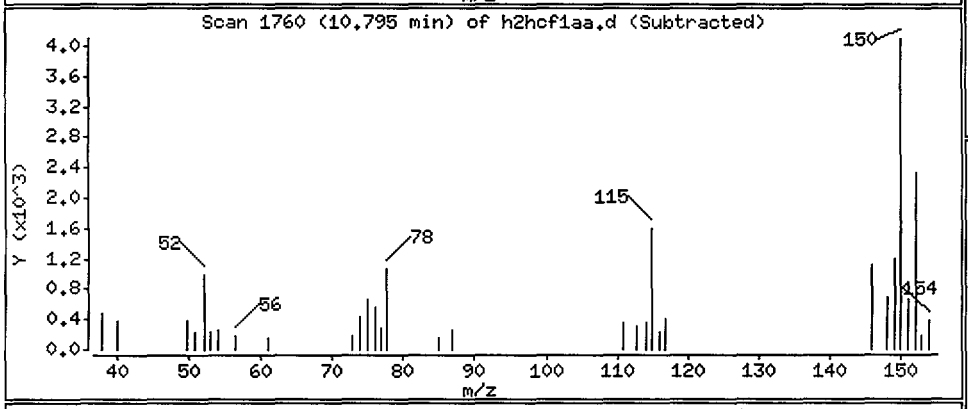
Column phase: J+W 624

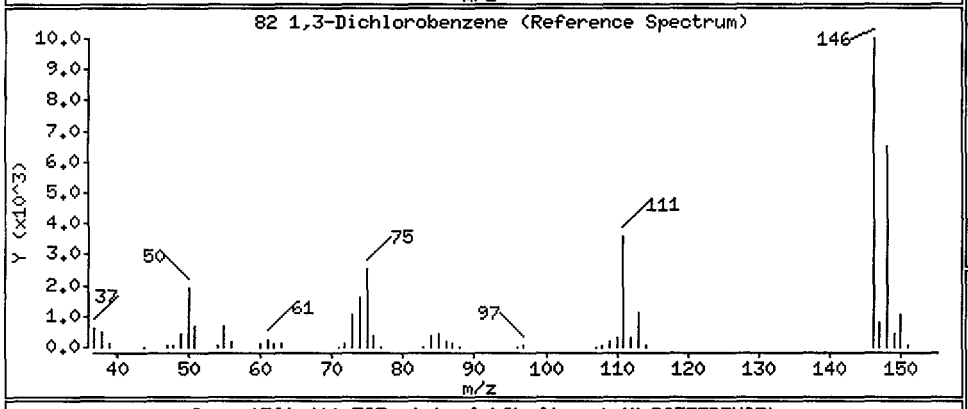
Column diameter: 0.18

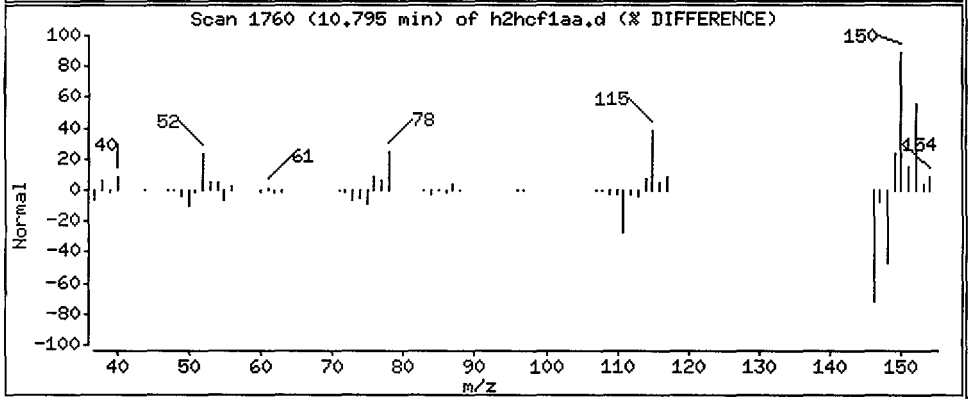
82 1,3-Dichlorobenzene

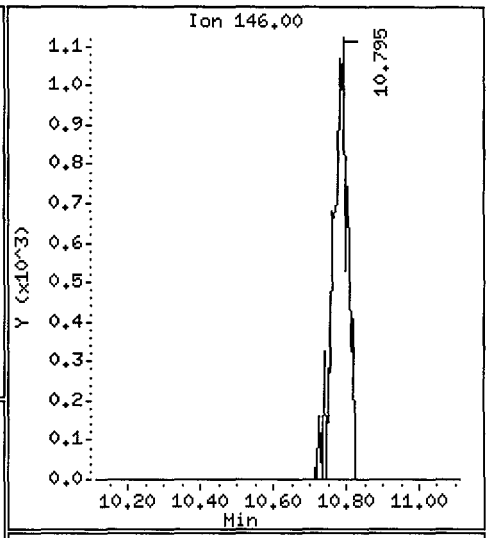
Concentration: 0.0019283 ug

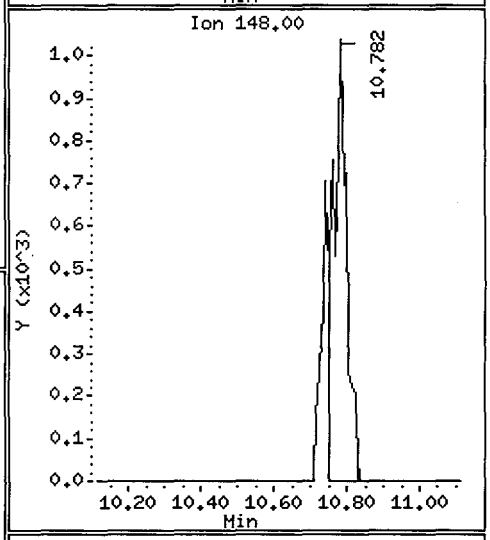


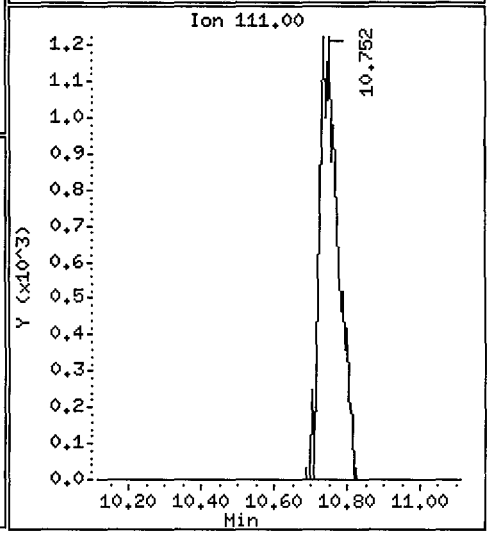












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

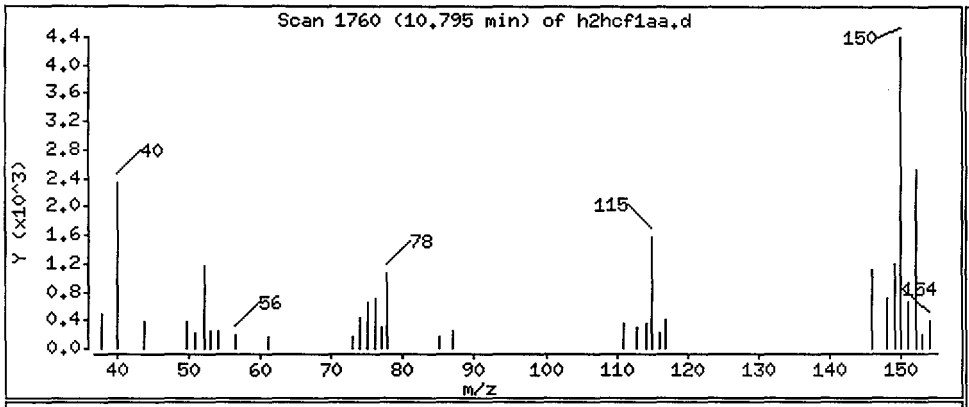
Operator: 22980

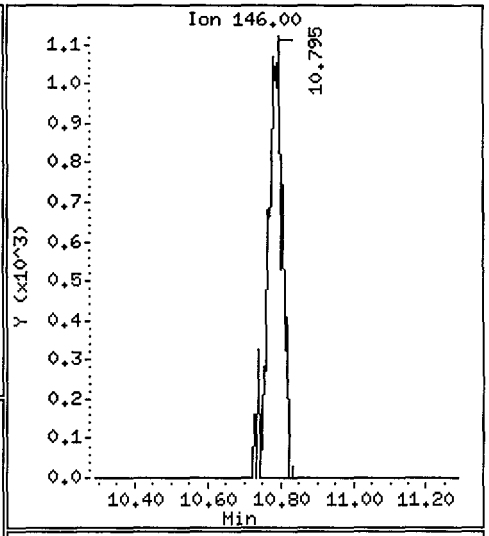
Column phase: J+W 624

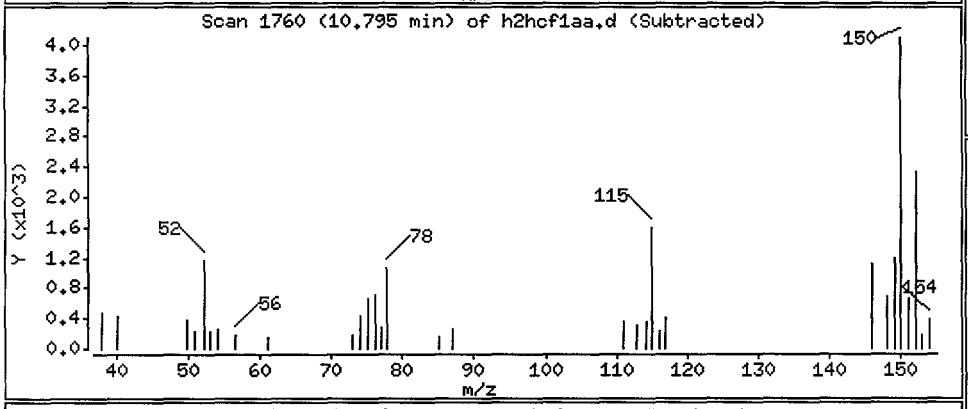
Column diameter: 0.18

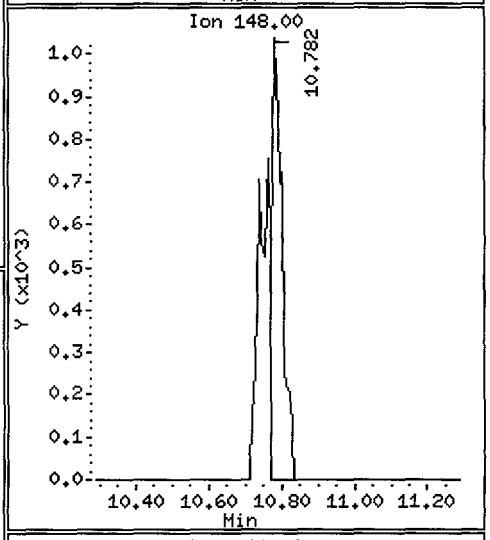
84 1,4-Dichlorobenzene

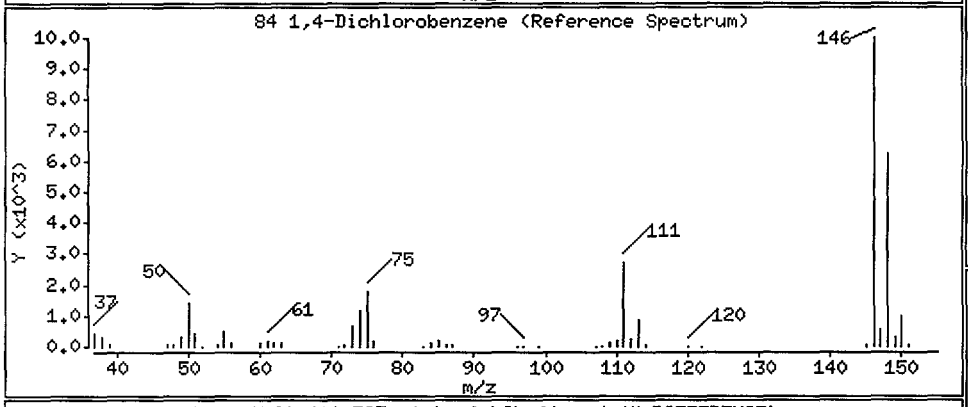
Concentration: 0.0020043 ug

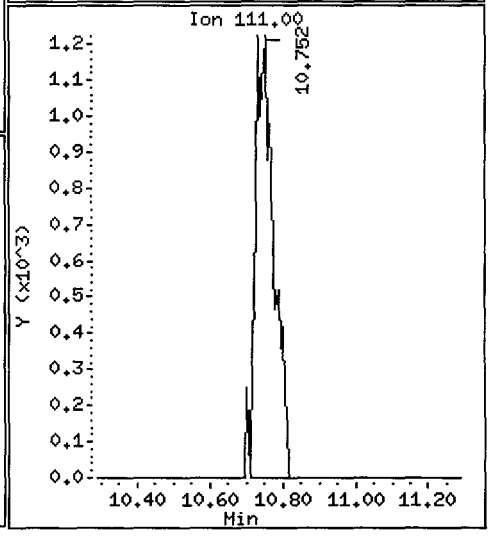


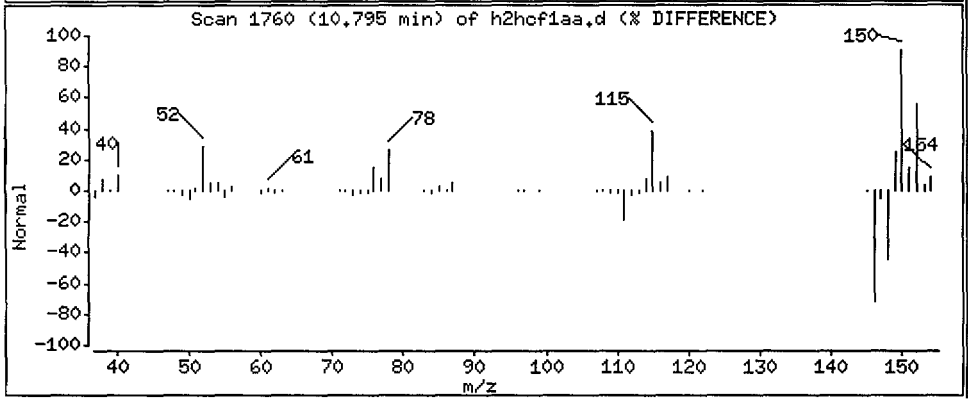












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

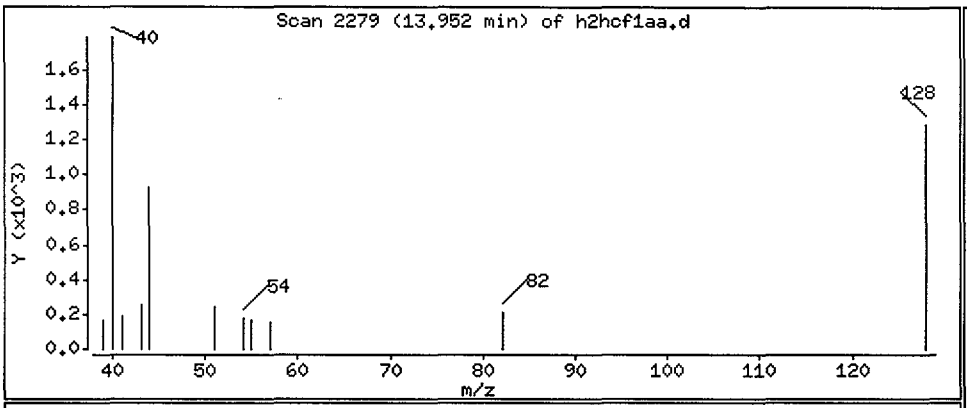
Operator: 22980

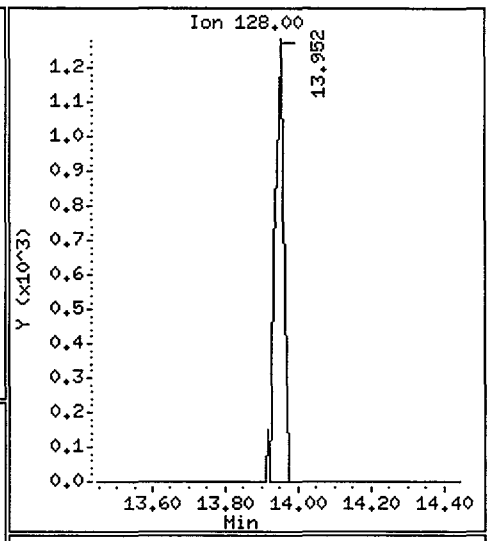
Column phase: J+W 624

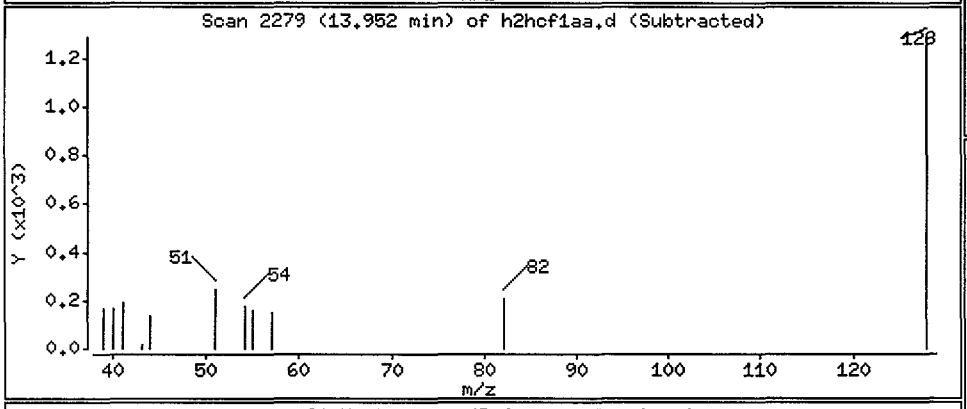
Column diameter: 0.18

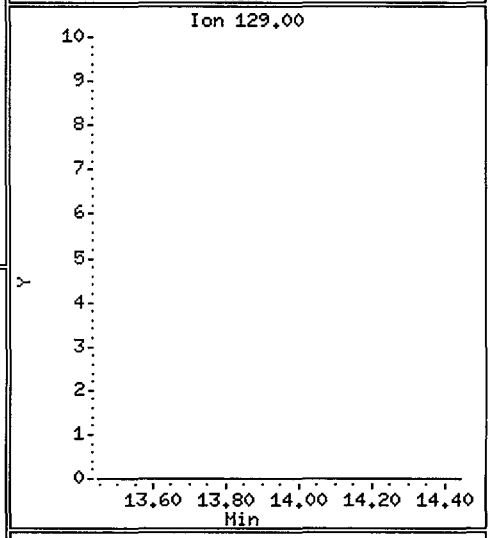
90 Napthalene

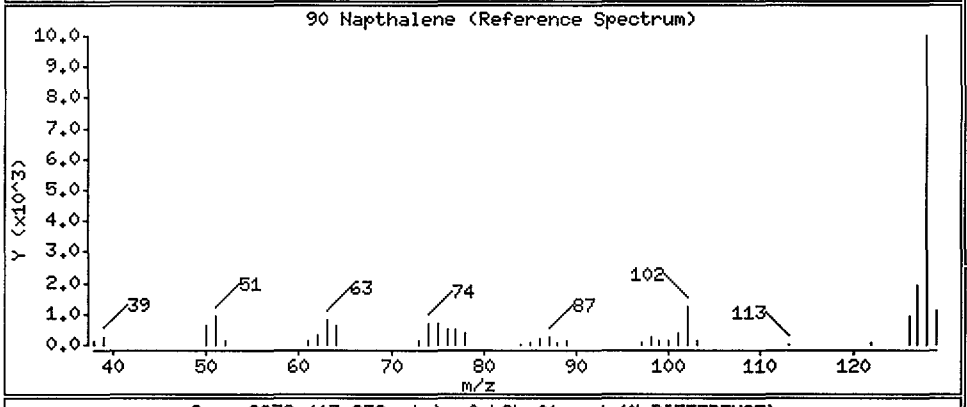
Concentration: 0.0051903 ug

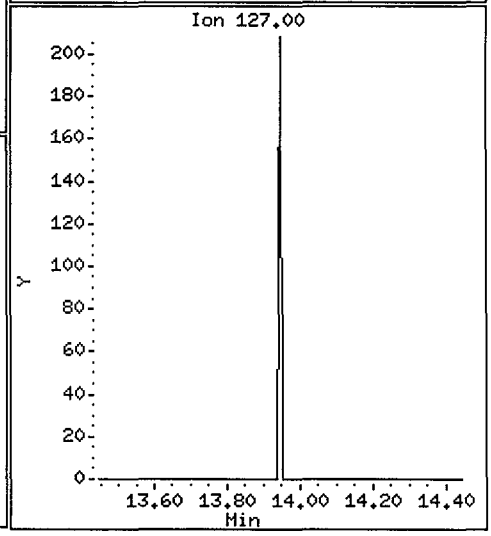


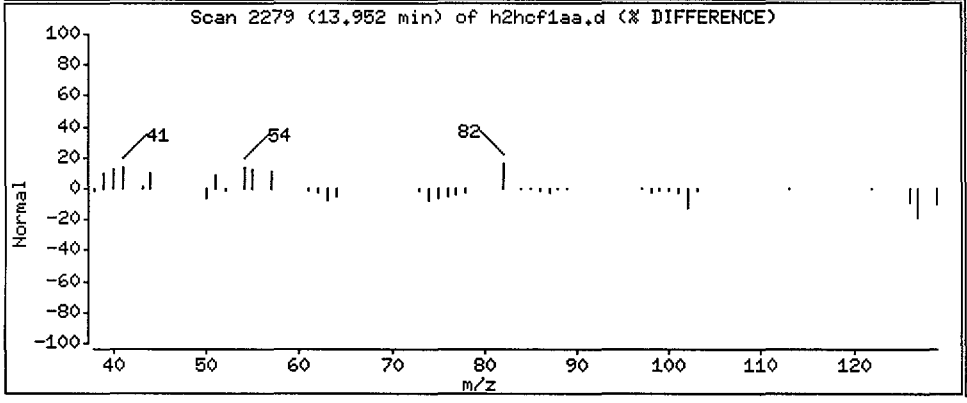












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d
Report Date: 19-Apr-2006 07:35

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d
Lab Smp Id: H2HCF1AA Client Smp ID: G-3090-R3-VOST PAIR
Inj Date : 07-APR-2006 16:37
Operator : 22980 Inst ID: mx.i
Smp Info : H2HCF1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 19-Apr-2006 07:31 tajh Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 2 Chlorobenzene-d5	7.582	1345988	10.000
* 3 1,4 Dichlorobenzene-d4	10.740	556411	10.000

	CONCENTRATIONS		QUANT			
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug)	QUAL	LIBRARY	LIB ENTRY	CPND #
Cyclotrisiloxane, hexamethyl-				CAS #: 541-05-9			
6.719	135303	1.00523184	0.025131	91	NIST02.1	71175	2
Nonane				CAS #: 111-84-2			
7.881	141773	1.05330062	0.026332	91	NIST02.1	12253	2
Cyclotetrasiloxane, octamethyl-				CAS #: 556-67-2			
9.237	109856	1.97436787	0.049359	91	NIST02.1	115617	3

4/19/06

Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

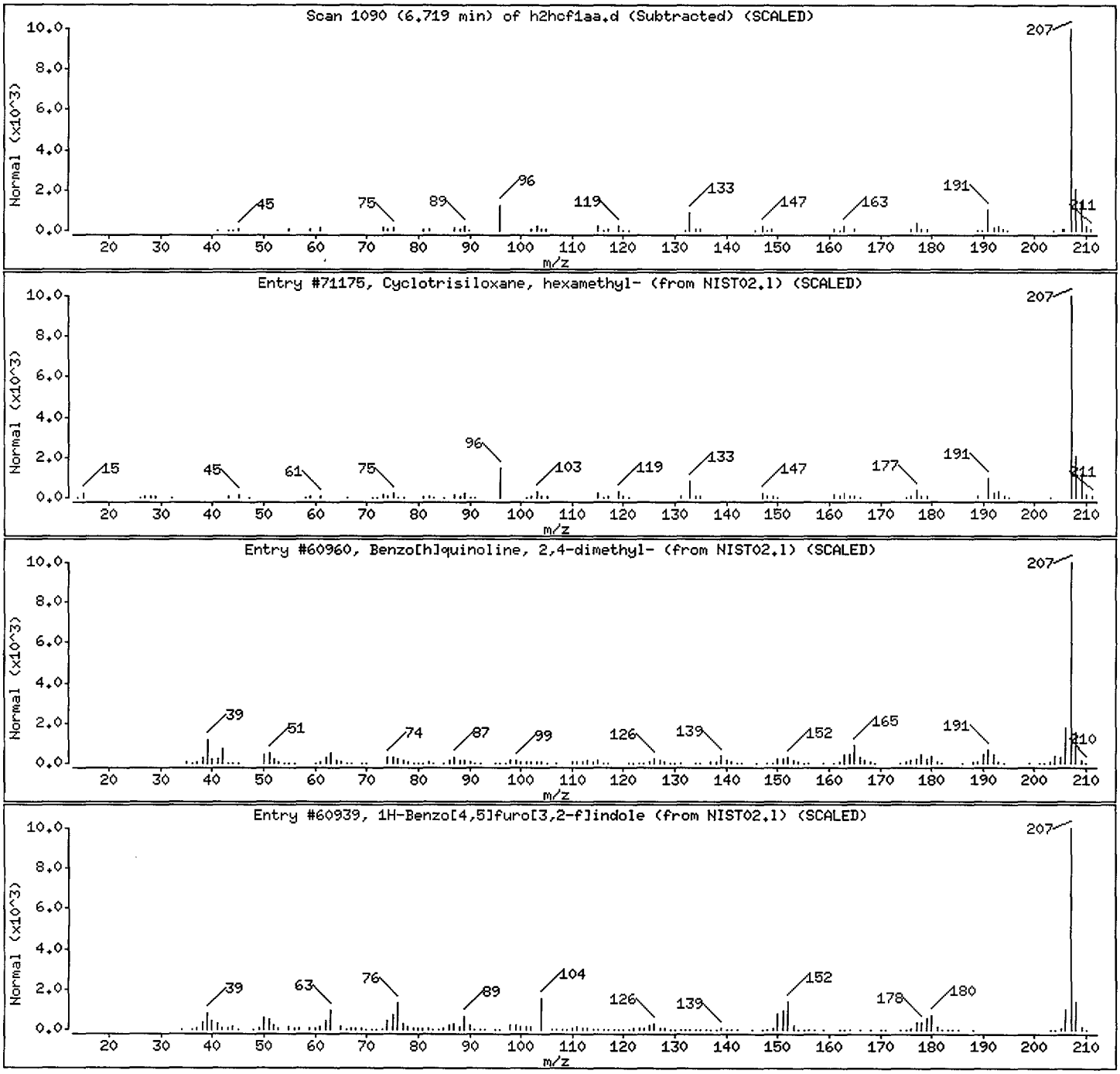
Sample Info: H2HCF1AA,1,0,,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotrisiloxane, hexamethyl-	541-05-9	NIST02.l	71175	91	C6H18O3Si3	222
Benzo[h]quinoline, 2,4-dimethyl-	605-67-4	NIST02.l	60960	39	C15H13N	207
1H-Benzo[4,5]furo[3,2-f]indole	242-97-7	NIST02.l	60939	9	C14H9NO	207



Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

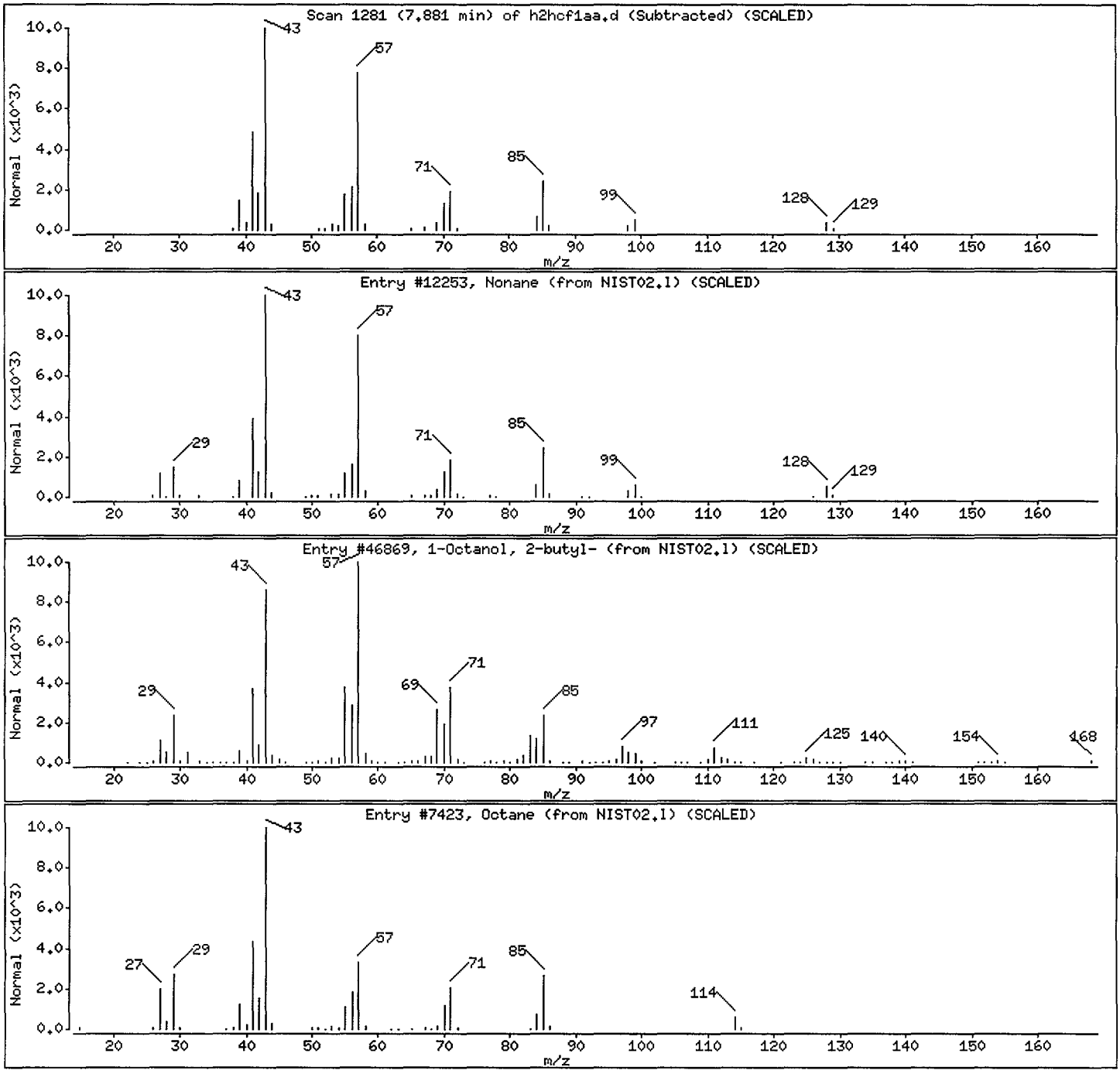
Sample Info: H2HCF1AA,1,0,,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Nonane	111-84-2	NIST02.l	12253	91	C9H20	128
1-Octanol, 2-butyl-	3913-02-8	NIST02.l	46869	72	C12H26O	186
Octane	111-65-9	NIST02.l	7423	64	C8H18	114



Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

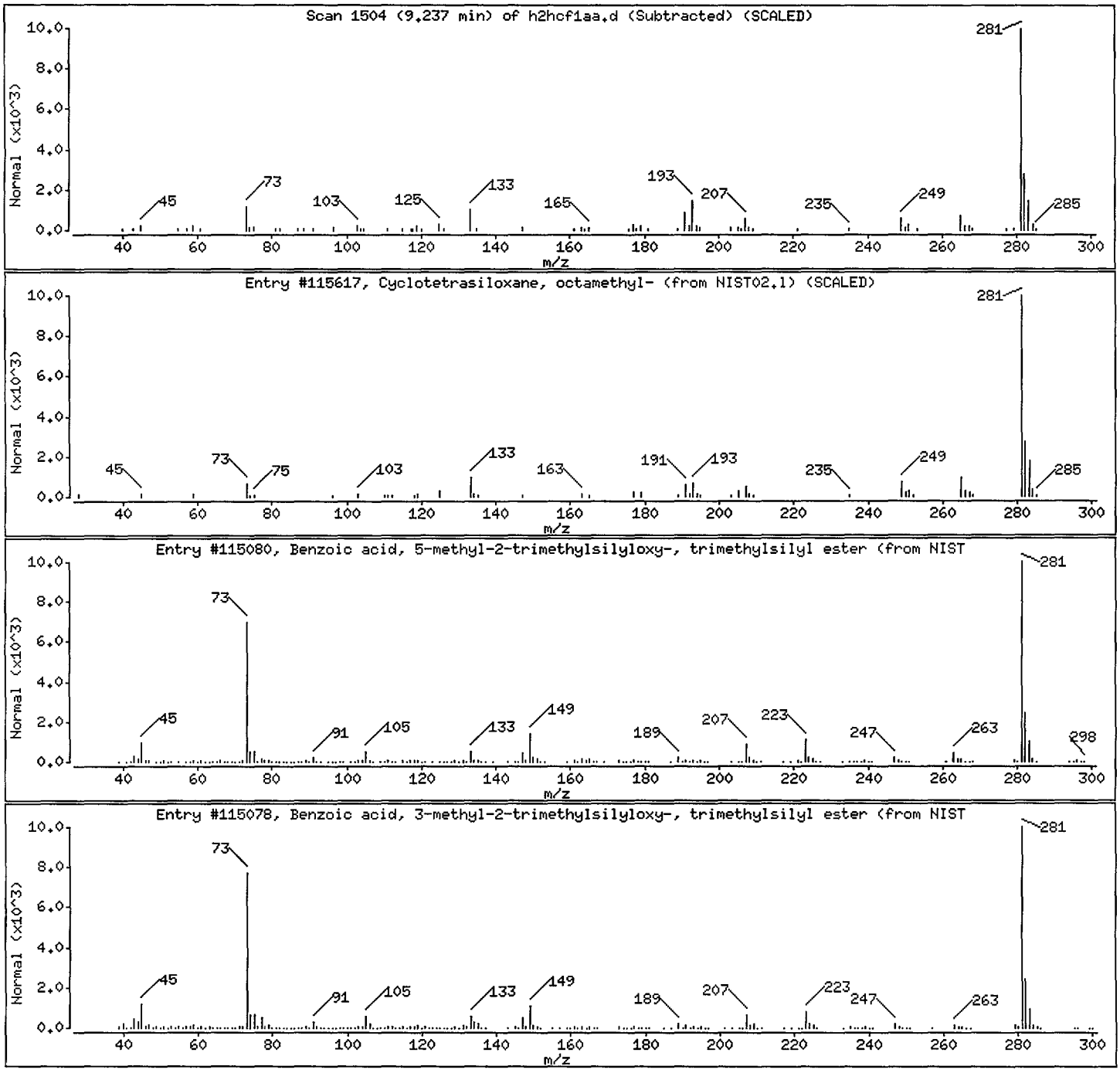
Sample Info: H2HCF1AA,1,0,,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotetrasiloxane, octamethyl-	556-67-2	NIST02.l	115617	91	C8H24O4Si4	296
Benzoic acid, 5-methyl-2-trimethylsilylo	1000153-59-4	NIST02.l	115080	59	C14H24O3Si2	296
Benzoic acid, 3-methyl-2-trimethylsilylo	1000153-57-1	NIST02.l	115078	59	C14H24O3Si2	296



STL Knoxville - ACS

Client Sample ID: G-3091-R3-VOST PAIR #2 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-025 **Work Order #...:** H2HCG1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.46**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.0083 J**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	**0.041**	**0.010**	**ug**	**0.0016**
Bromoform	**0.16**	**0.025**	**ug**	**0.0066**
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.013**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.0039 J**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**3.4 E**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	**0.12**	**0.025**	**ug**	**0.010**
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.028**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3091-R3-VOST PAIR #2 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-025 **Work Order #...:** H2HCG1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.36**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	**0.033**	**0.025**	**ug**	**0.010**
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**2.4 E**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.37**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.0057 J**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	**0.0065 J**	**0.020**	**ug**	**0.0034**
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	**0.0065 J**	**0.030**	**ug**	**0.0048**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	76	(50 - 134)
1,2-Dichloroethane-d4	76	(50 - 134)
Toluene-d8	73	(57 - 127)
Bromofluorobenzene	59	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

STL Knoxville - ACS

G-3091-R3-VOST PAIR #2 TENAX

GC/MS Volatiles

Lot-Sample #: H6D030169-025 **Work Order #:** H2HCG1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Benzaldehyde	100-52-7	0.074 NJ M	10.085	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d
Report Date: 07-Apr-2006 15:00

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /chem/gcms/mx.i/X040706.b/h2hcg1aa.d
Lab Smp Id: H2HCG1AA Client Smp ID: G-3091-R3-VOST PAIR
Inj Date : 07-APR-2006 14:43
Operator : 22980 Inst ID: mx.i
Smp Info : H2HCG1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 11:23 gosss Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

4/19/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	4.853	4.851	(1.000)	1165097	10.0000	
* 2 Chlorobenzene-d5	119	7.585	7.582	(1.000)	229388	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.742	10.746	(1.000)	247441	10.0000	
$ 4 Dibromofluoromethane	113	4.275	4.273	(0.881)	150245	7.58466	0.18962
$ 5 1,2-Dichloroethane-d4	65	4.555	4.553	(0.939)	117238	7.59271	0.18982
$ 6 Toluene-d8	98	6.252	6.250	(0.824)	819408	7.29600	0.18240
$ 7 4-Bromofluorobenzene	95	8.874	8.872	(0.826)	172391	5.87602	0.14690
M 9 Xylene (total)	106				28961	0.56429	0.014107
11 Chloromethane (spcc)	50	1.258	1.262	(0.259)	2745	0.05058	0.0012644
21 Acetone	43	2.383	2.381	(0.491)	30129	18.2584	0.45646
23 Carbon Disulfide	76	2.499	2.497	(0.515)	47894	0.53939	0.013485
26 Methylene Chloride	84	2.748	2.746	(0.566)	261182	14.4995	0.36249
33 *Vinyl Acetate	86	3.247	3.421	(0.669)	1385	1.04570	~~0.026142~~
34 2,2-Dichloropropane	77	3.868	3.853	(0.797)	2719	0.05318	0.0013294
36 2-Butanone	43	3.868	3.871	(0.797)	11592	4.50384	0.11260
38 *THF	42	4.111	4.109	(0.847)	1787	1.13295	0.028324
39 Chloroform (ccc)	83	4.142	4.139	(0.853)	49447	1.11664	0.027916
41 Carbon Tetrachloride	117	4.440	4.437	(0.915)	6576	0.15725	0.0039313
42 1,1-Dichloropropene	75	4.853	4.437	(1.000)	90778	1.96792	~~0.049198~~
43 Benzene	78	4.610	4.607	(0.950)	39274	0.33285	0.0083212

Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d
Report Date: 07-Apr-2006 15:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug)
44 1,2-Dichloroethane	62	4.853	4.620	(1.000)	20411	1.02794	~~0.025698~~
45 Trichloroethene	130	5.176	5.173	(1.066)	7222	0.22812	0.0057030
49 Bromodichloromethane	83	5.608	5.605	(1.155)	40244	1.62795	0.040699
51 cis-1,3-Dichloropropene	75	6.313	6.007	(1.301)	13554	0.46818	~~0.011704~~
52 4-Methyl-2-pentanone	43	6.252	6.147	(1.288)	5764	0.93505	~~0.023376~~
53 Toluene (ccc)	91	6.313	6.311	(0.832)	1977004	14.7135	0.36784
54 trans-1,3-Dichloropropene	75	6.313	6.506	(0.832)	13554	0.57557	~~0.014389~~
56 1,1,2-Trichloroethane	97	6.818	6.670	(0.899)	26172	2.46583	~~0.061646~~
57 Tetrachloroethene	164	6.824	6.816	(0.900)	2786980	96.5333	2.4133(A)
59 2-Hexanone	43	6.715	6.907	(0.885)	2746	0.61171	~~0.015293~~
60 Chlorodibromomethane	129	7.037	7.035	(0.928)	60895	4.63067	0.11577
62 Chlorobenzene (spcc)	112	7.615	7.607	(1.004)	9399276	136.270	3.4067(A)
64 Ethylbenzene (ccc)	106	7.719	7.716	(1.018)	2132	0.04495	0.0011237
65 m&p-Xylene	106	7.834	7.838	(1.033)	14480	0.26047	0.0065116
66 o-Xylene	106	7.834	8.251	(1.033)	14480	0.30382	~~0.0075956~~
68 Bromoform (spcc)	173	8.467	8.464	(1.116)	39806	6.26304	0.15658
69 Isopropylbenzene	105	8.686	8.689	(1.145)	11069	0.07242	0.0018104
73 1,2,3-Trichloropropane	110	9.239	9.115	(0.860)	1885	0.81628	~~0.020407~~
80 1,2,4-Trimethylbenzene	105	10.085	10.125	(0.939)	89427	1.12017	~~0.028004~~
90 Napthalene	128	13.948	13.946	(1.298)	14153	1.31834	0.032958

QC Flag Legend

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

4/19/06

Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d
Report Date: 07-Apr-2006 15:00

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: h2hcg1aa.d
Lab Smp Id: H2HCG1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 09:16
Client Smp ID: G-3091-R3-VOST PAIR
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1149191	574596	2298382	1165097	1.38
2 Chlorobenzene-d5	214194	107097	428388	229388	7.09
3 1,4 Dichlorobenze	242601	121300	485202	247441	2.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	0.05
2 Chlorobenzene-d5	7.58	7.08	8.08	7.58	0.03
3 1,4 Dichlorobenze	10.75	10.25	11.25	10.74	-0.03

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

Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d
Report Date: 07-Apr-2006 15:00

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030169
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: H2HCG1AA
Client Smp ID: G-3091-R3-VOST PAIR
Level: LOW
Operator: 22980
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allcmpds.spk
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

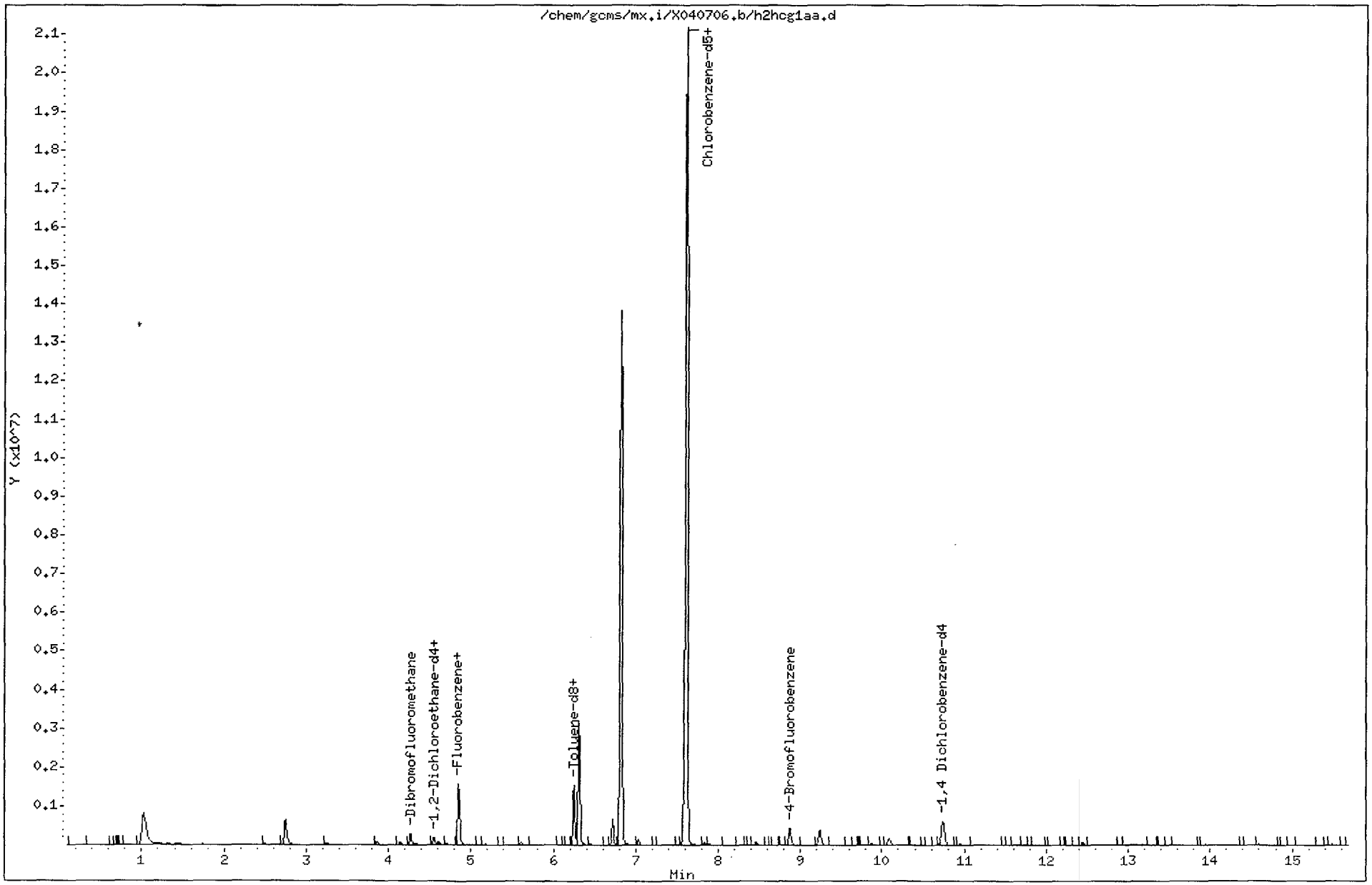
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.18962	75.85	50-150
$ 5 1,2-Dichloroethane	0.25000	0.18982	75.93	50-150
$ 6 Toluene-d8	0.25000	0.18240	72.96	50-150
$ 7 4-Bromofluorobenze	0.25000	0.14690	58.76	50-150

Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d
Date : 07-APR-2006 14:43
Client ID: G-3091-R3-VOST PAIR
Sample Info: H2HCG1AA,1,0,,,

Instrument: mx.i

Operator: 22980
Column diameter: 0.18

Column phase: J+W 624



Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

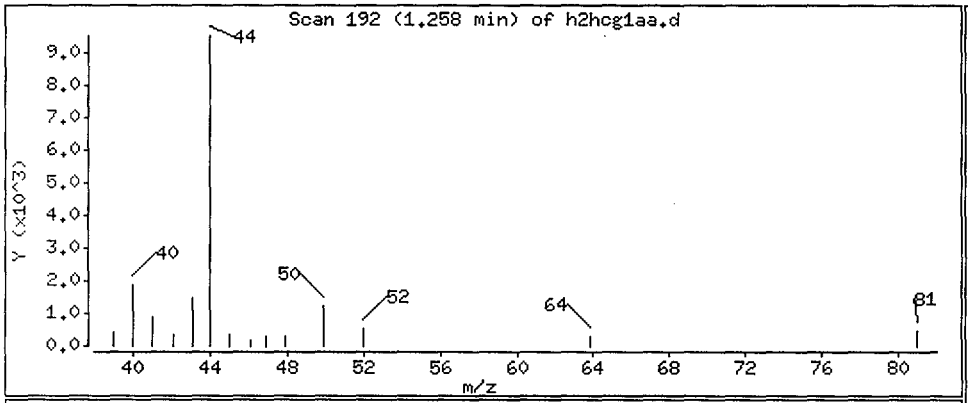
Operator: 22980

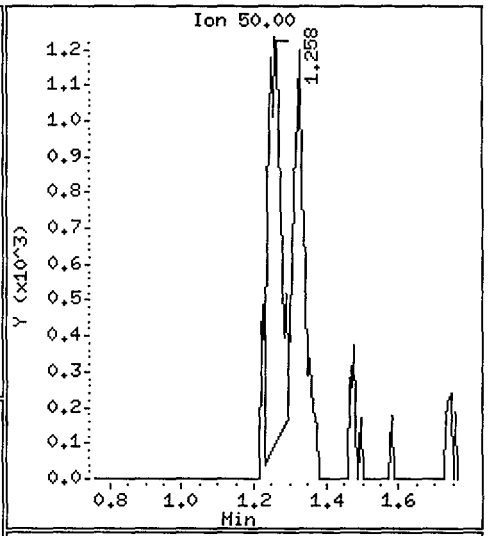
Column phase: J+W 624

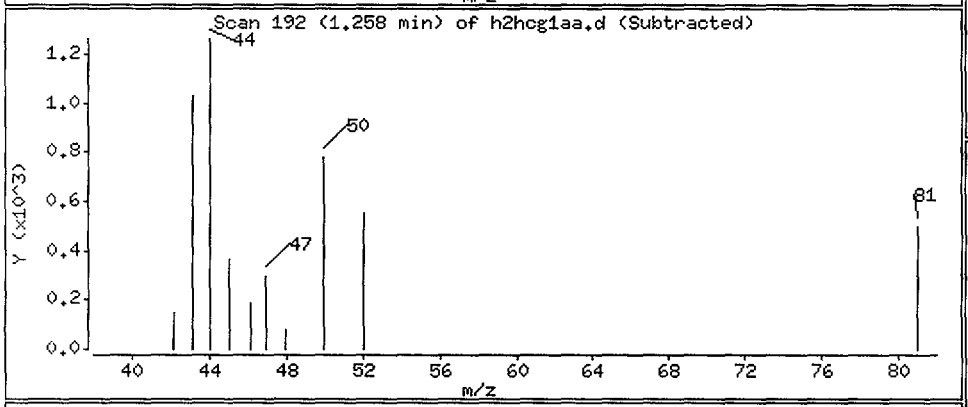
Column diameter: 0.18

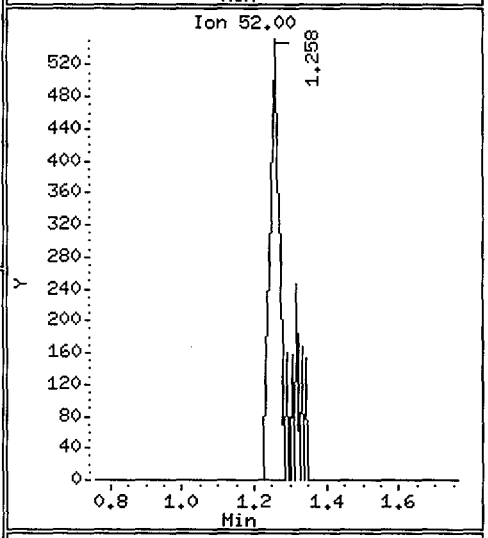
11 Chloromethane (spcc)

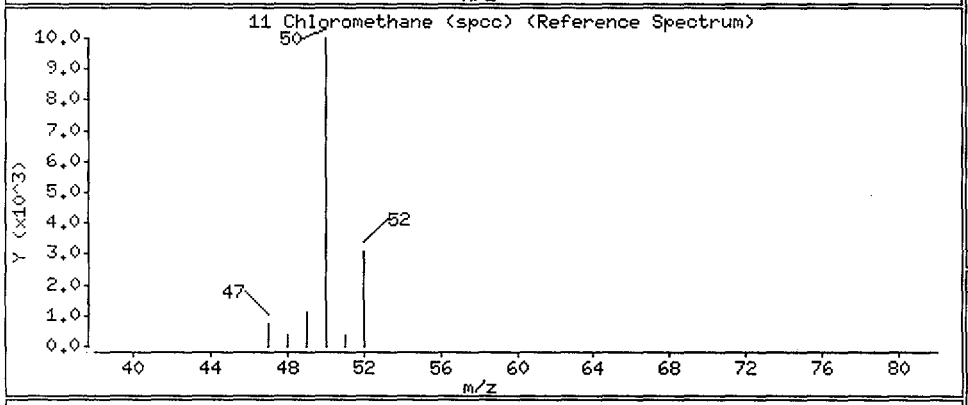
Concentration: 0.0012644 ug

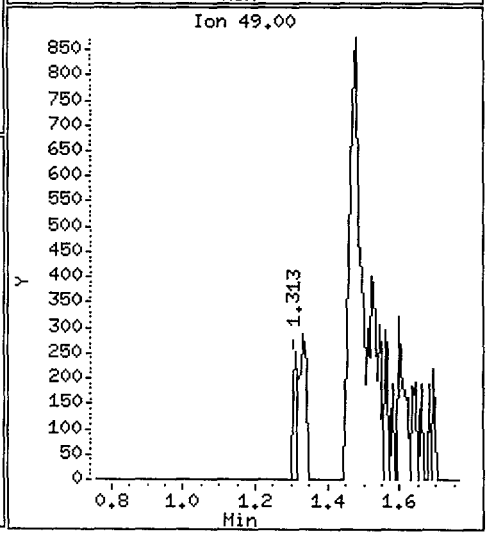


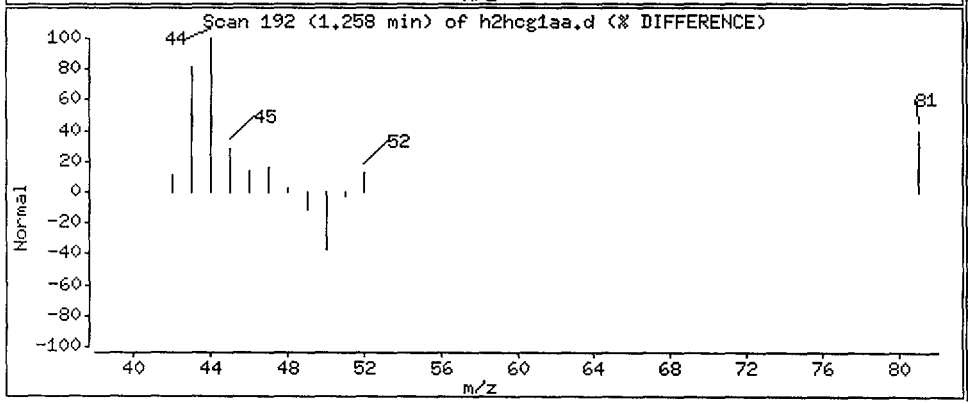












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

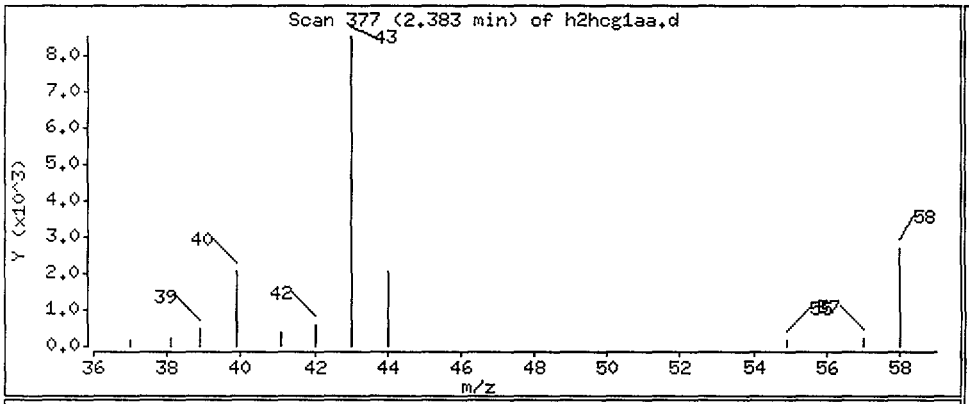
Operator: 22980

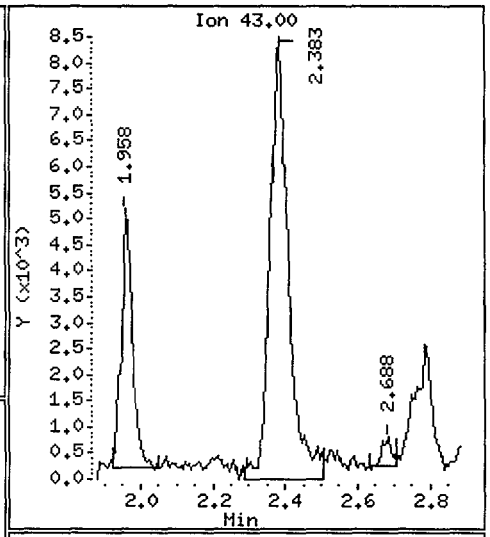
Column phase: J+W 624

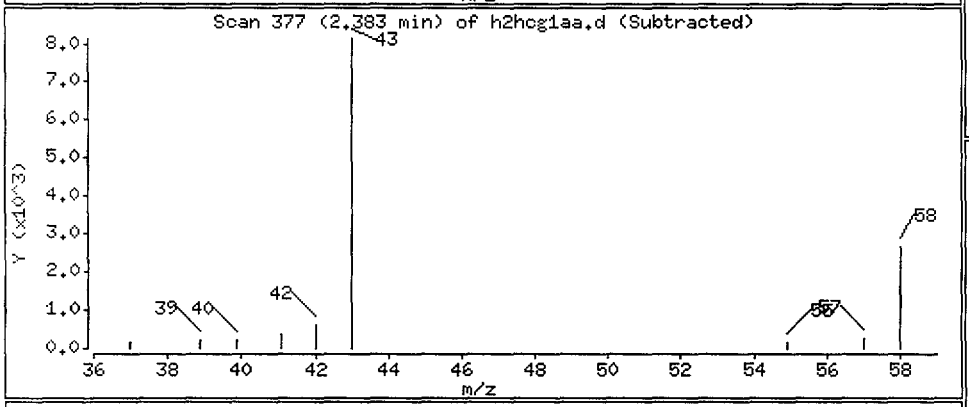
Column diameter: 0.18

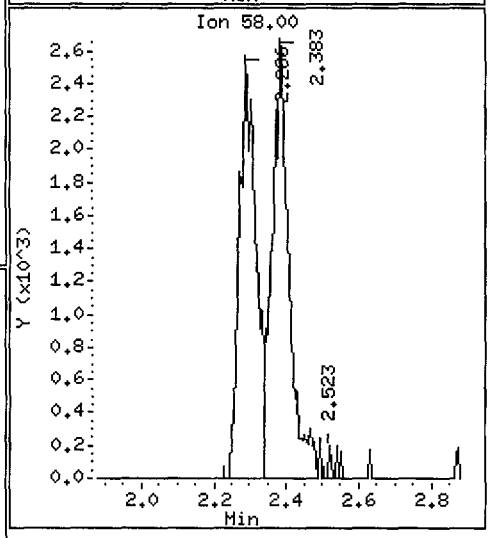
21 Acetone

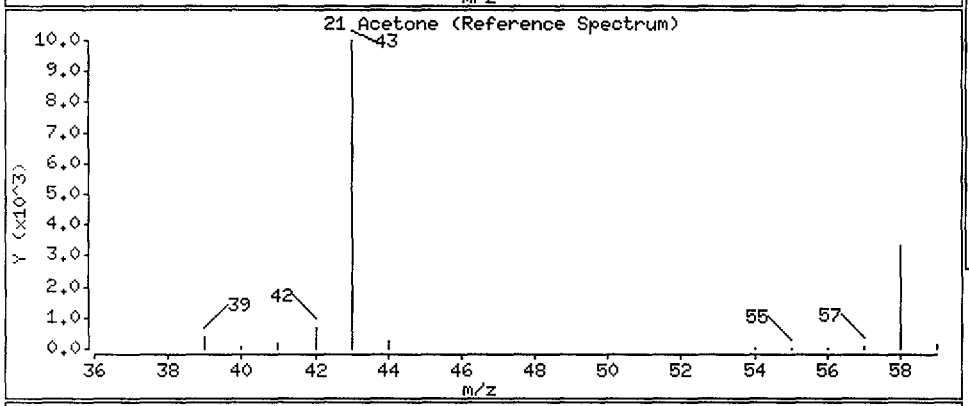
Concentration: 0.45646 ug

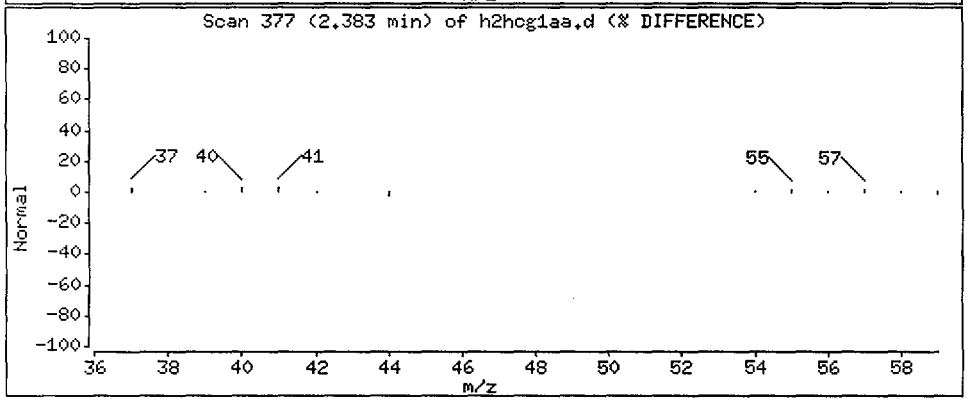












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

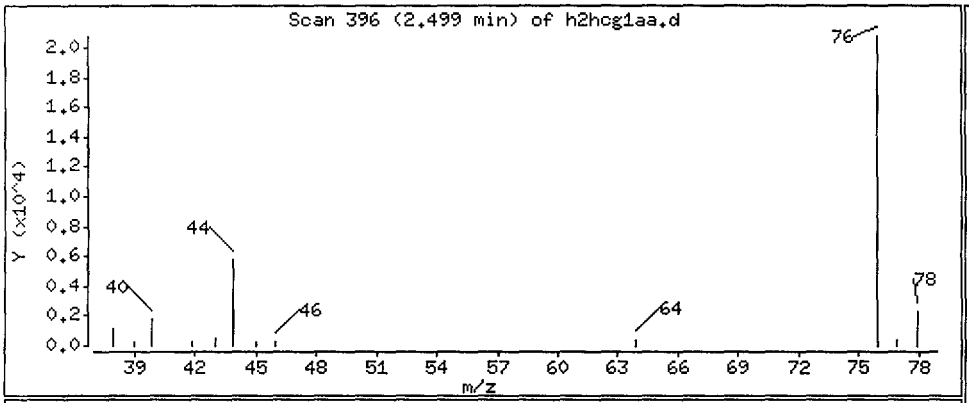
Operator: 22980

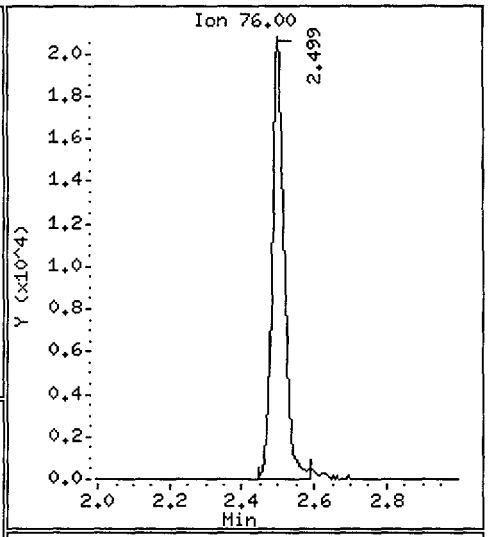
Column phase: J+W 624

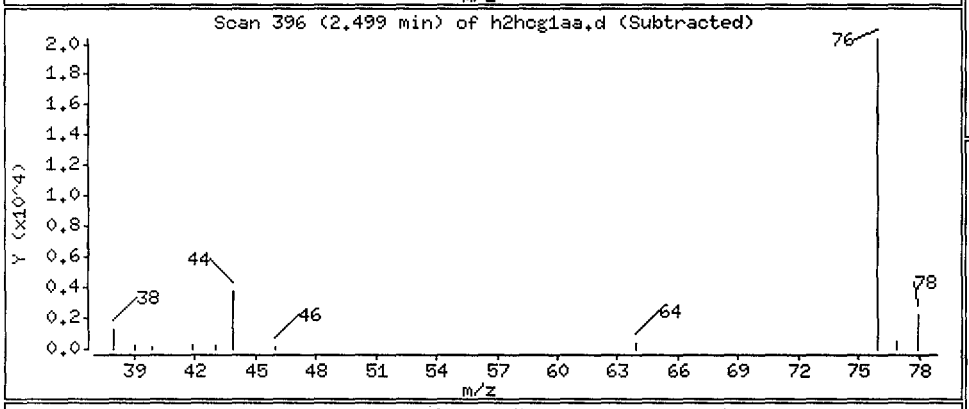
Column diameter: 0.18

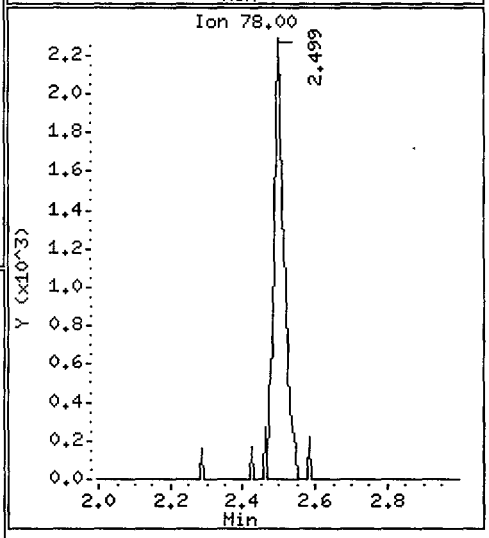
23 Carbon Disulfide

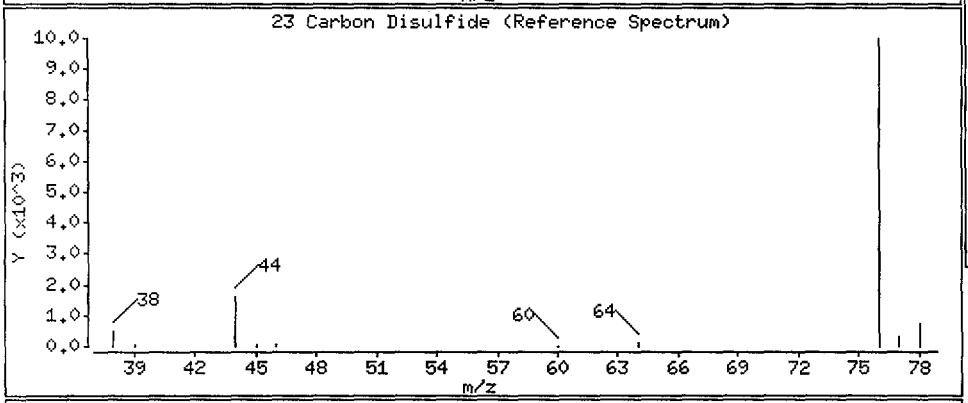
Concentration: 0.013485 ug

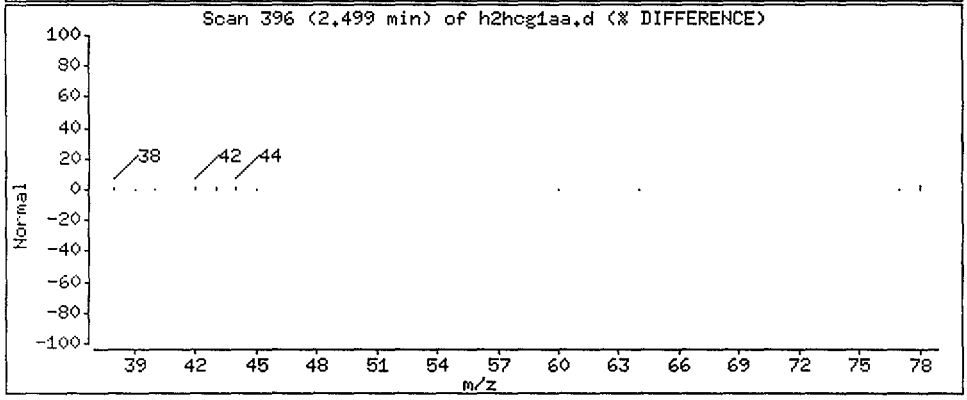












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

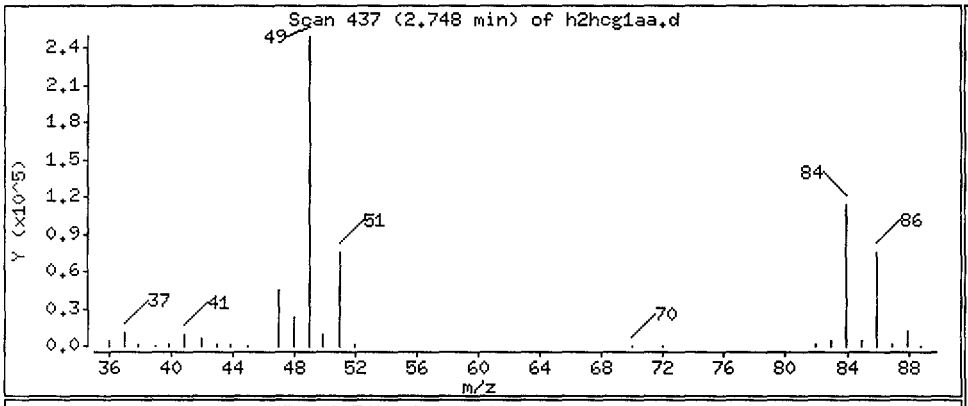
Operator: 22980

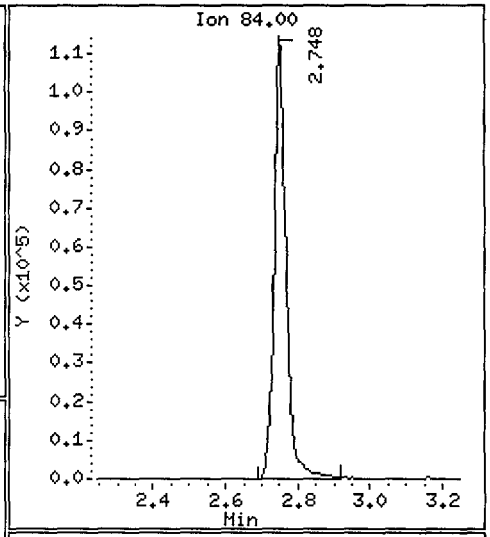
Column phase: J+W 624

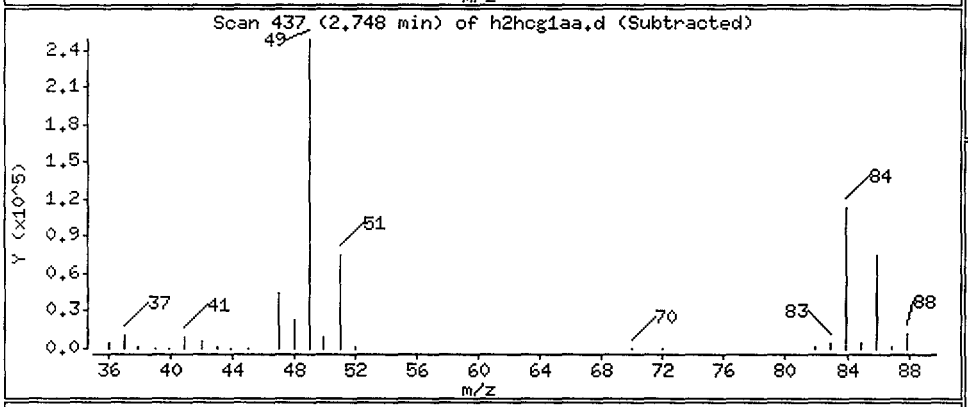
Column diameter: 0.18

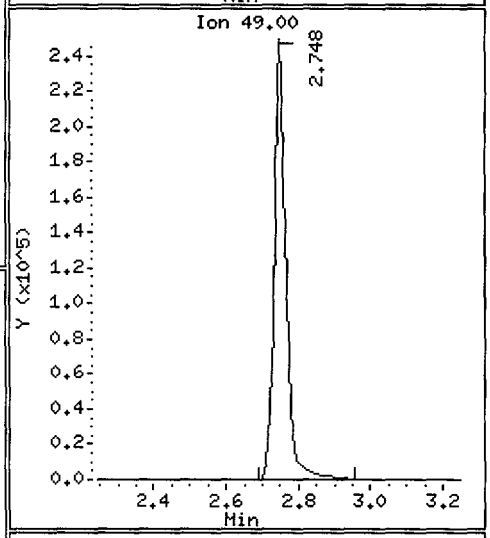
26 Methylene Chloride

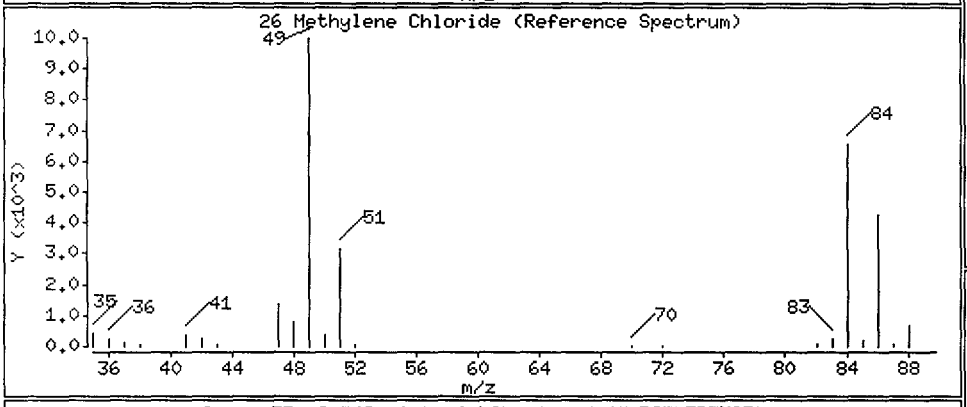
Concentration: 0.36249 ug

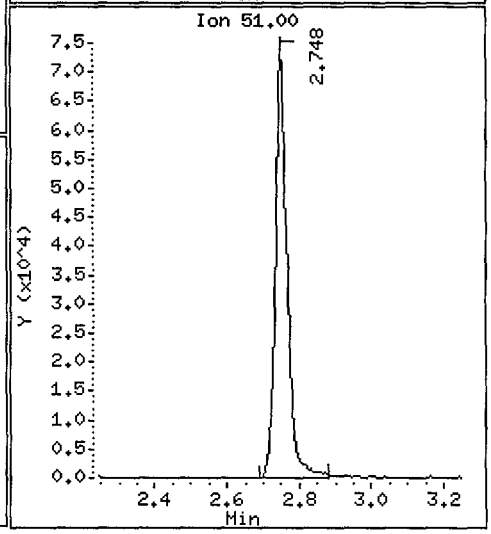


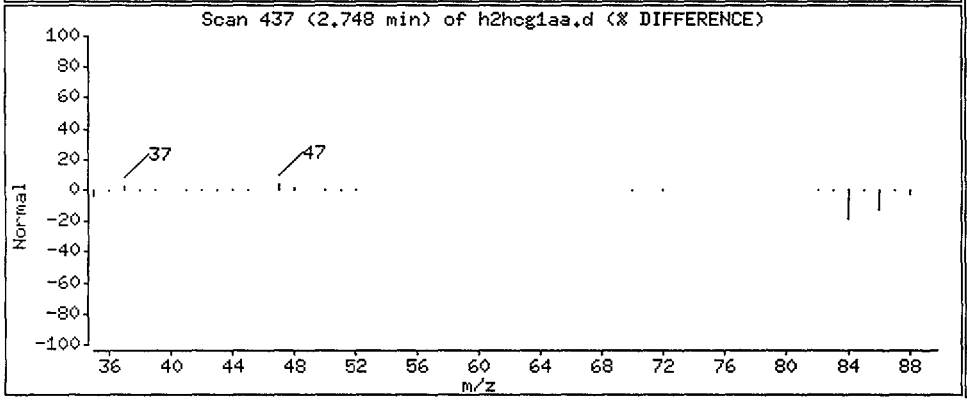












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

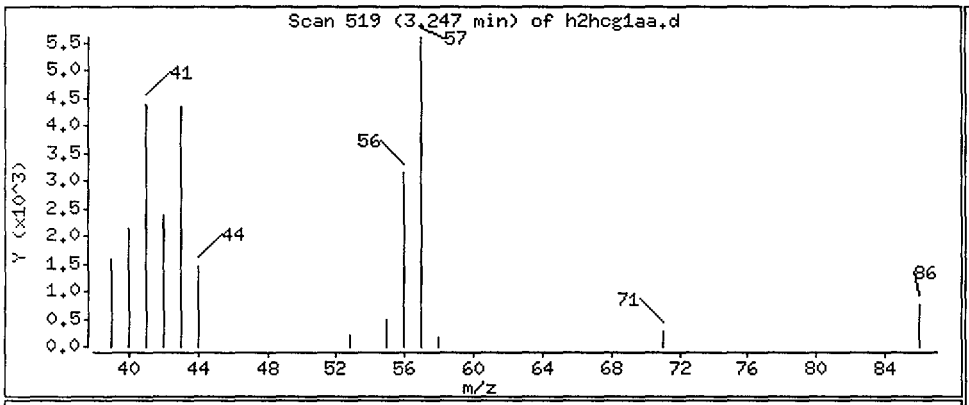
Operator: 22980

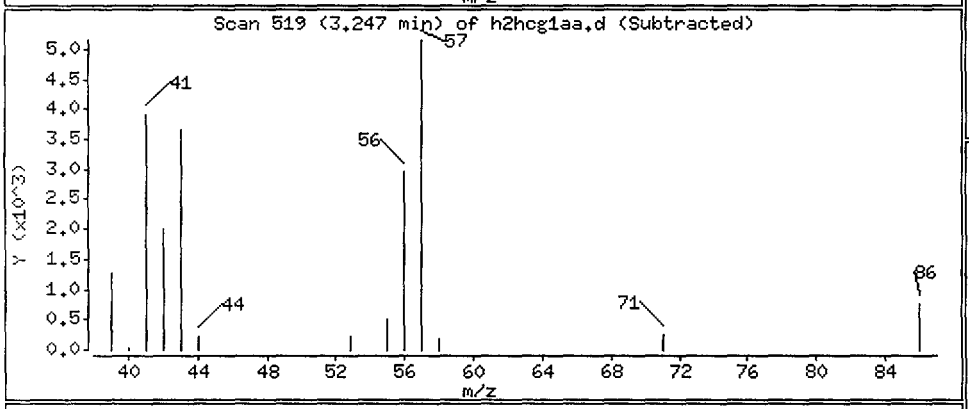
Column phase: J+W 624

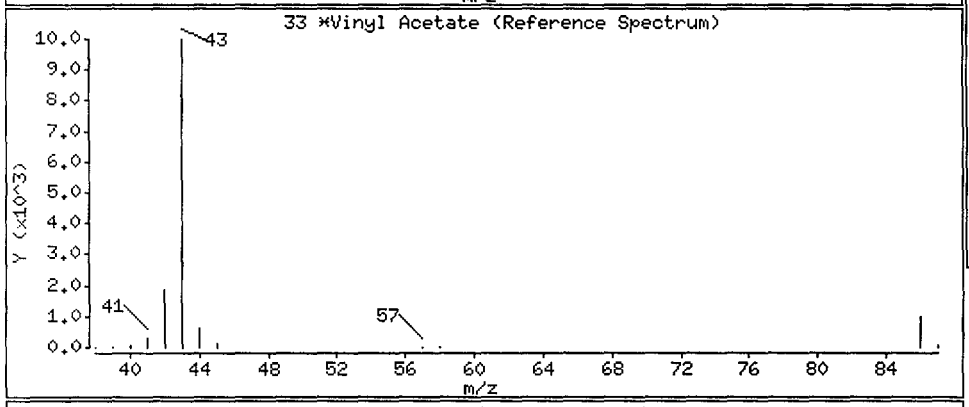
Column diameter: 0.18

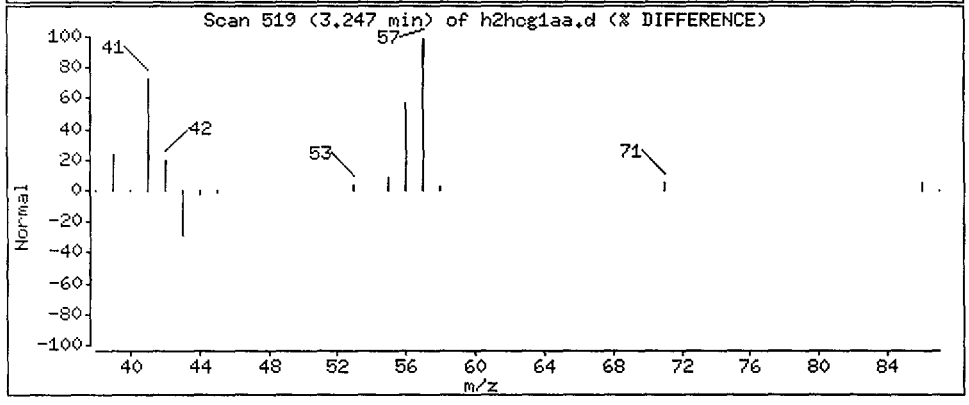
33 *Vinyl Acetate

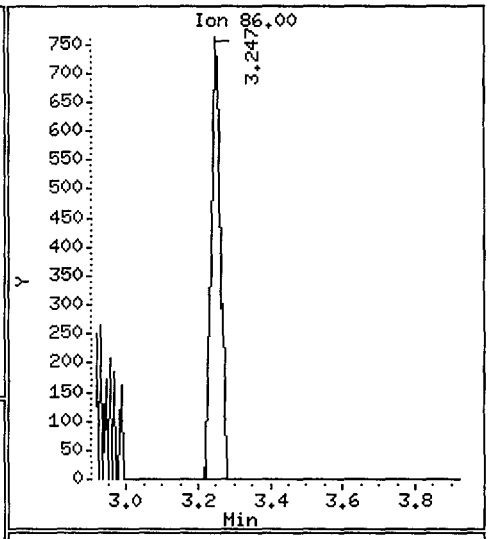
Concentration: 0.026142 ug

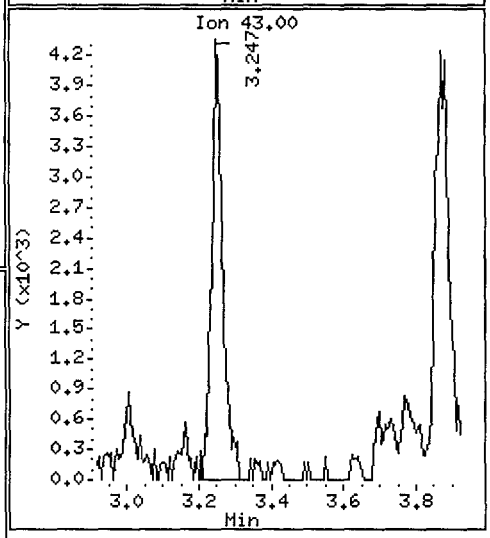












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

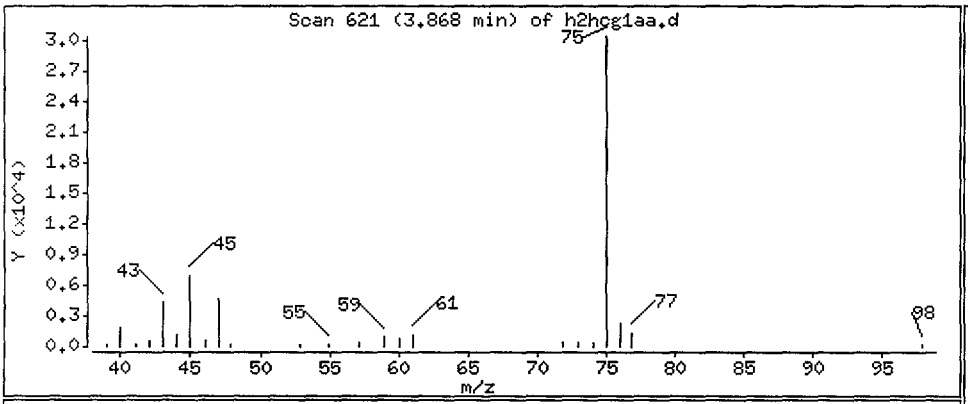
Operator: 22980

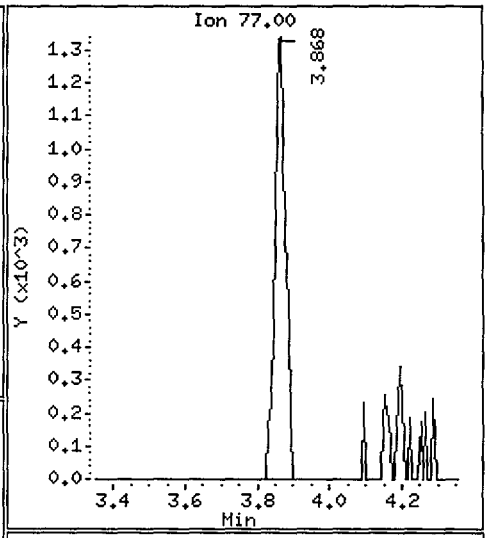
Column phase: J+W 624

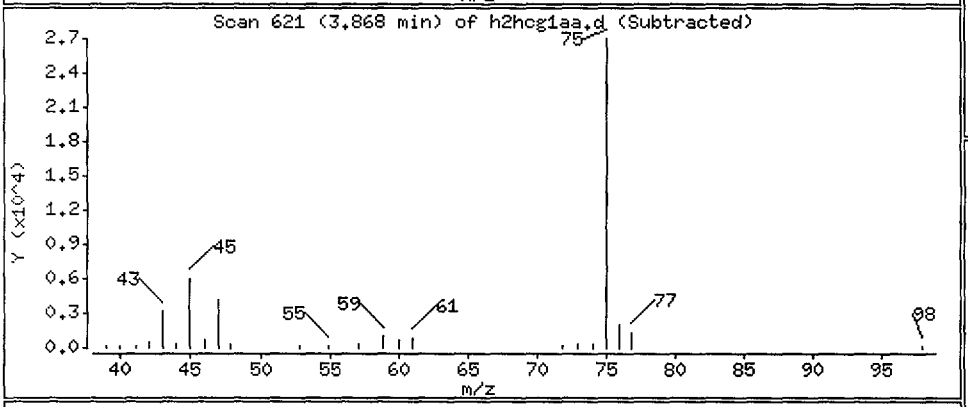
Column diameter: 0.18

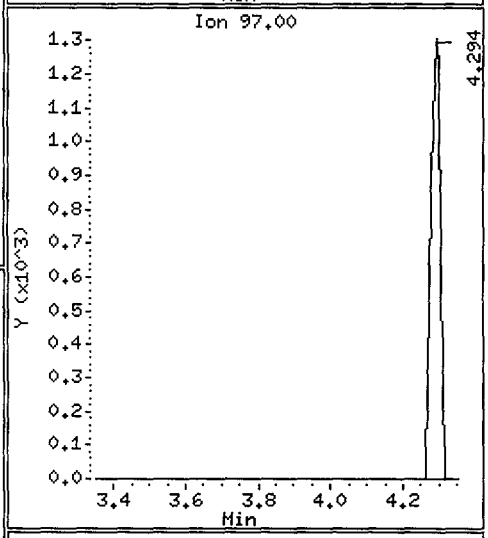
34 2,2-Dichloropropane

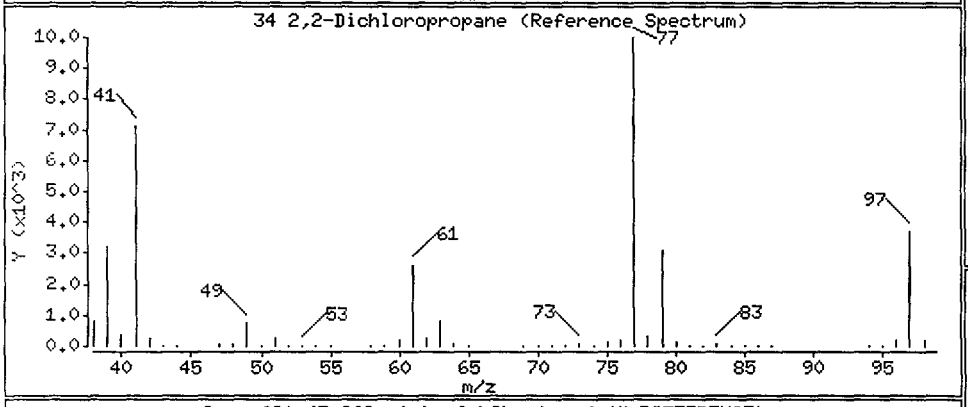
Concentration: 0.0013294 ug

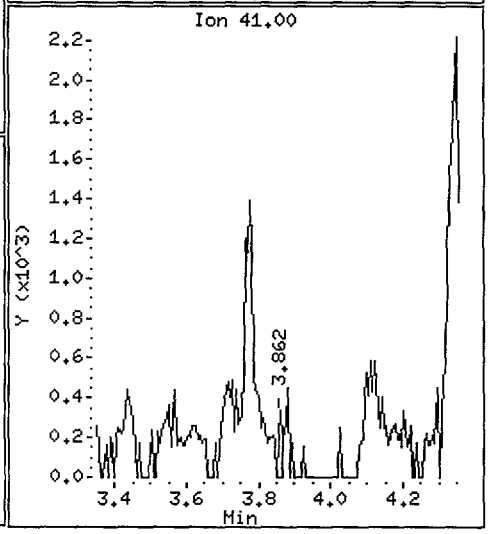


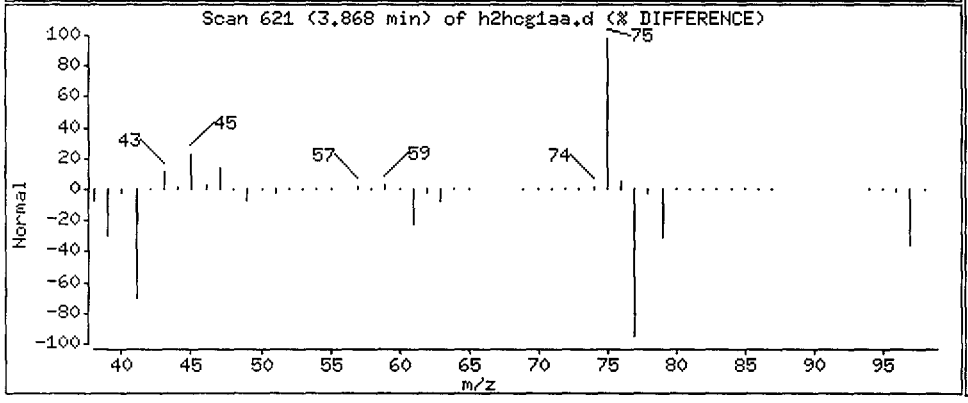












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

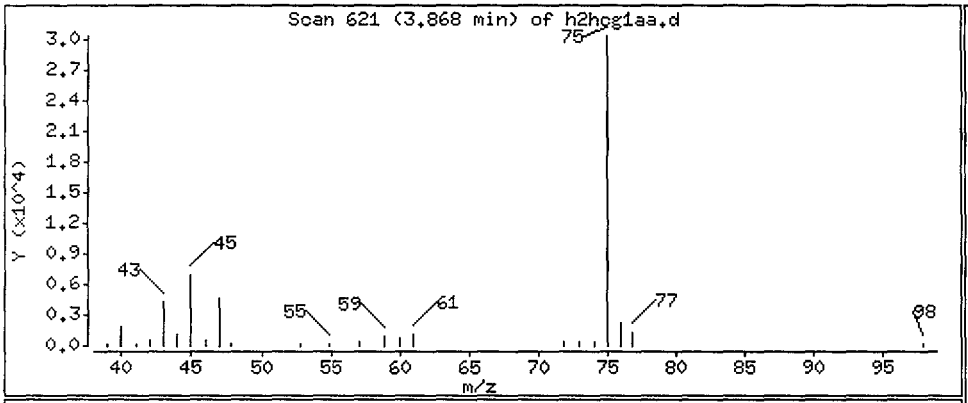
Operator: 22980

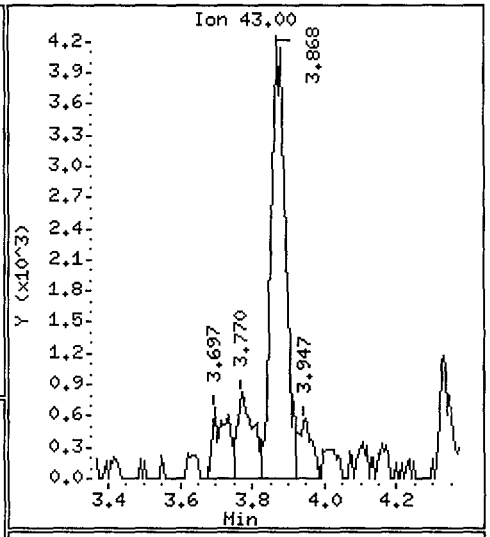
Column phase: J+W 624

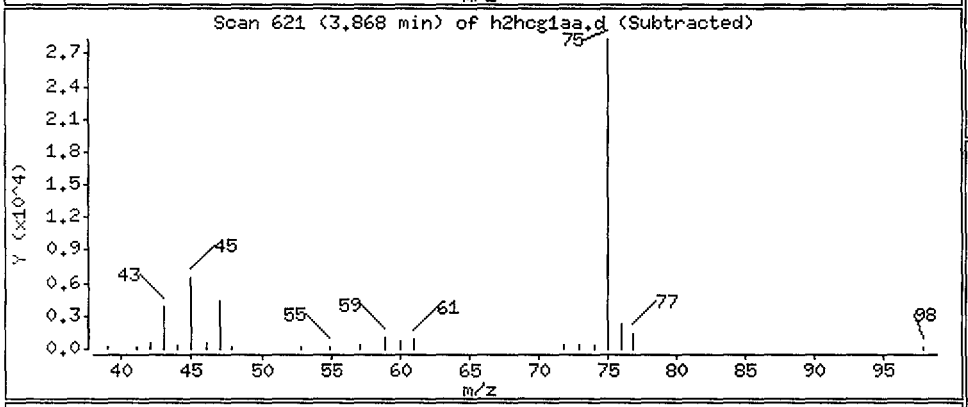
Column diameter: 0.18

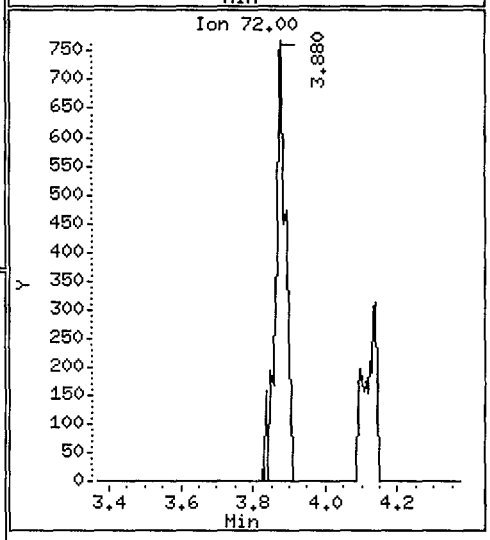
36 2-Butanone

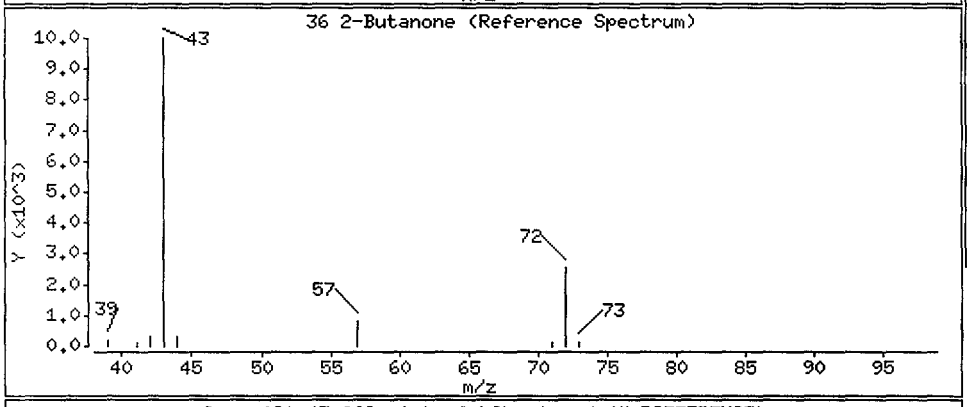
Concentration: 0.11260 ug

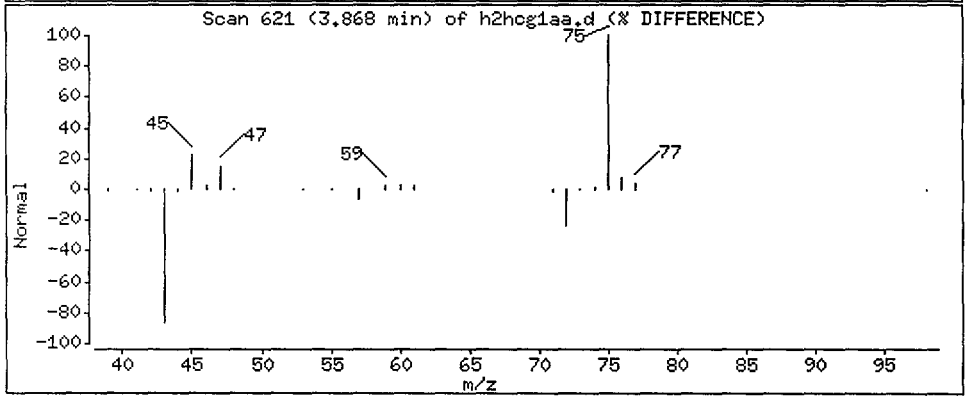












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

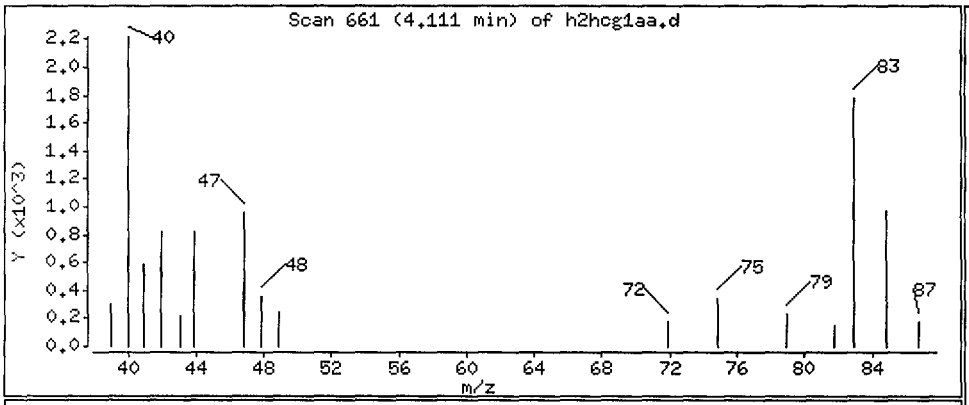
Operator: 22980

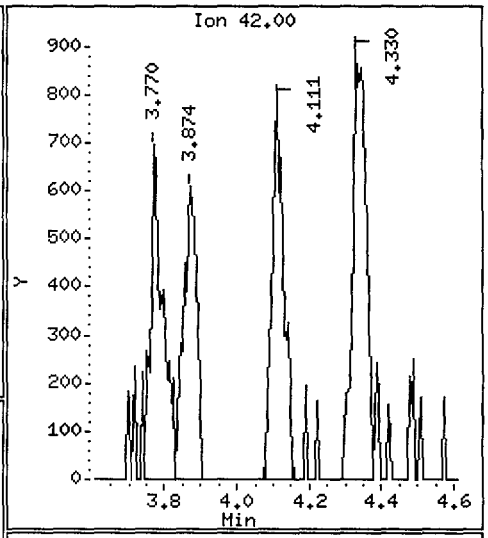
Column phase: J+W 624

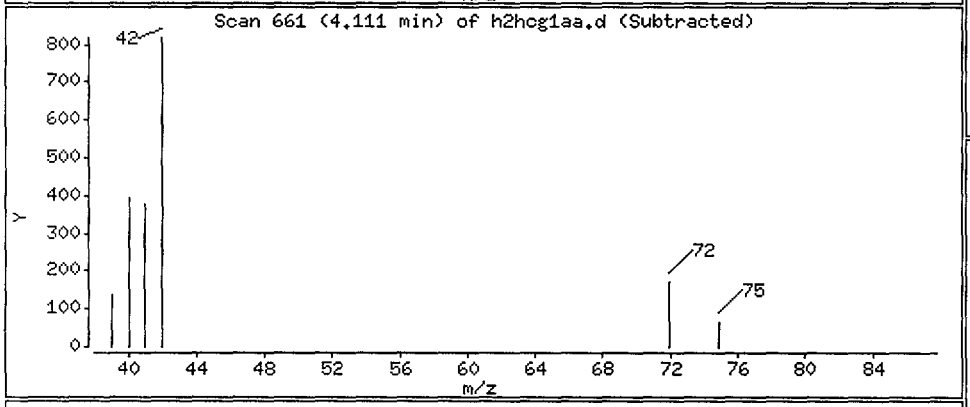
Column diameter: 0.18

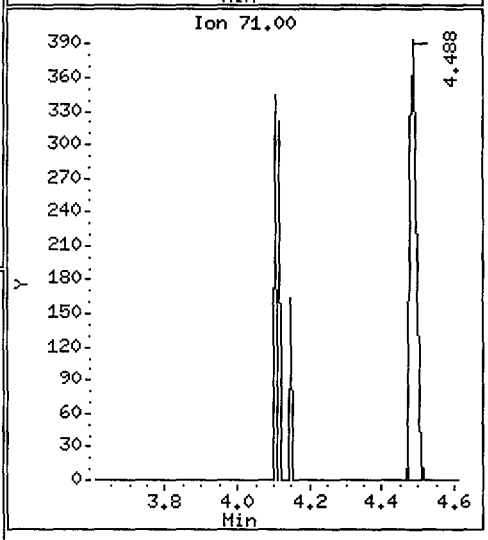
38 *THF

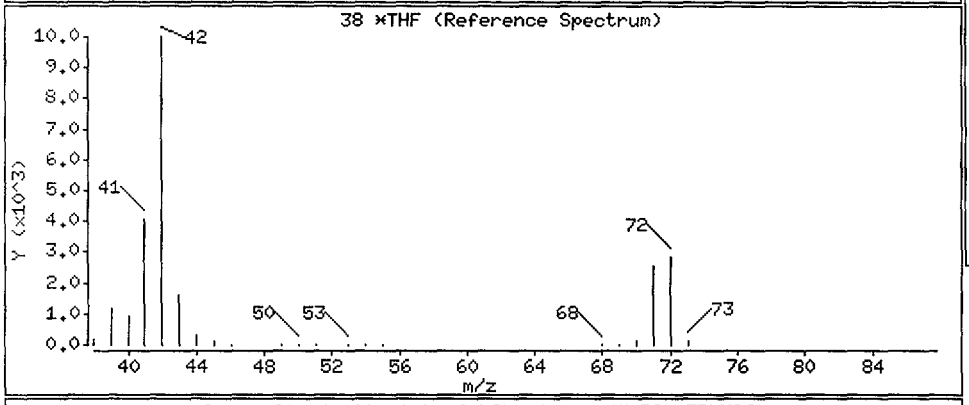
Concentration: 0.028324 ug

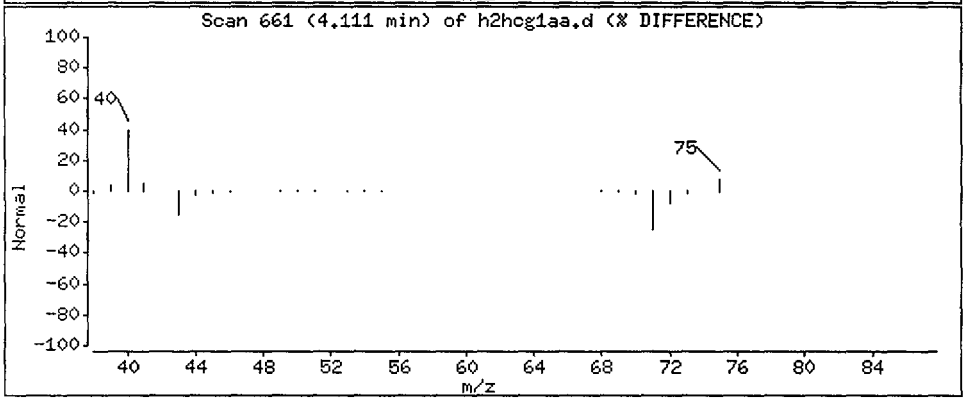












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

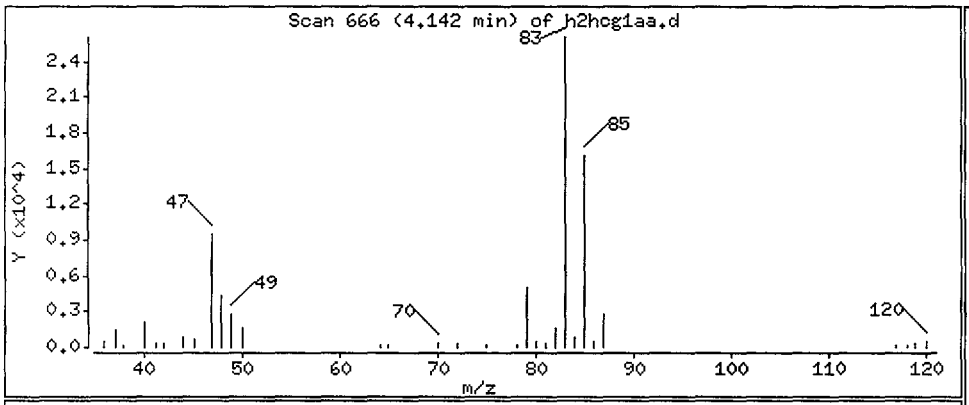
Operator: 22980

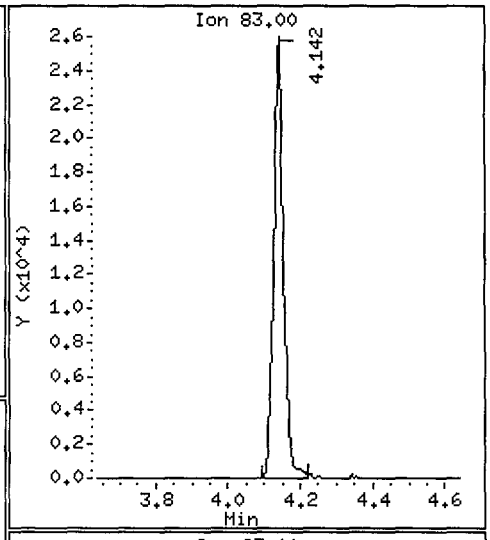
Column phase: J+W 624

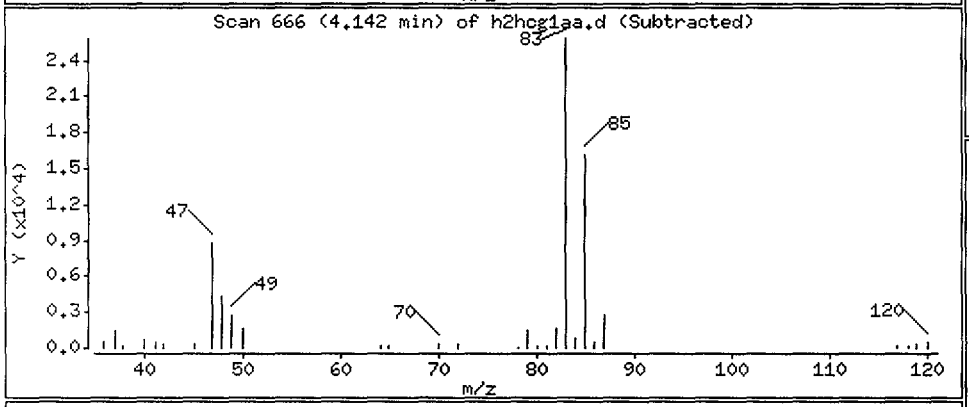
Column diameter: 0.18

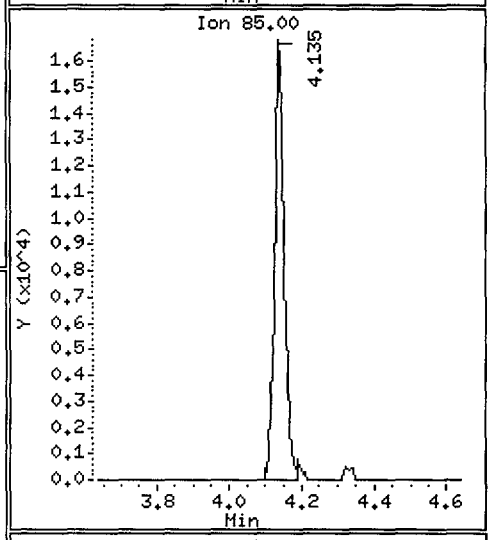
39 Chloroform (ccc)

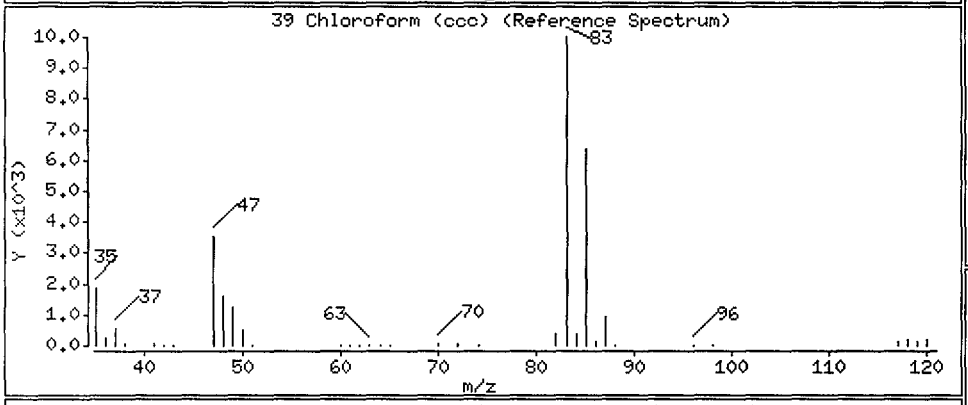
Concentration: 0.027916 ug

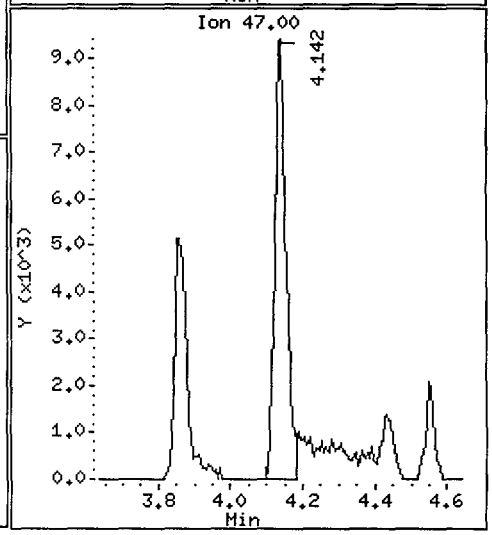


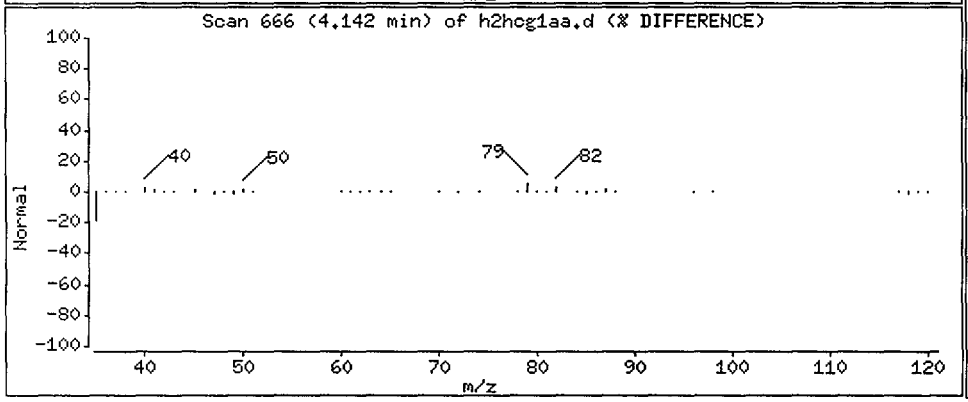












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

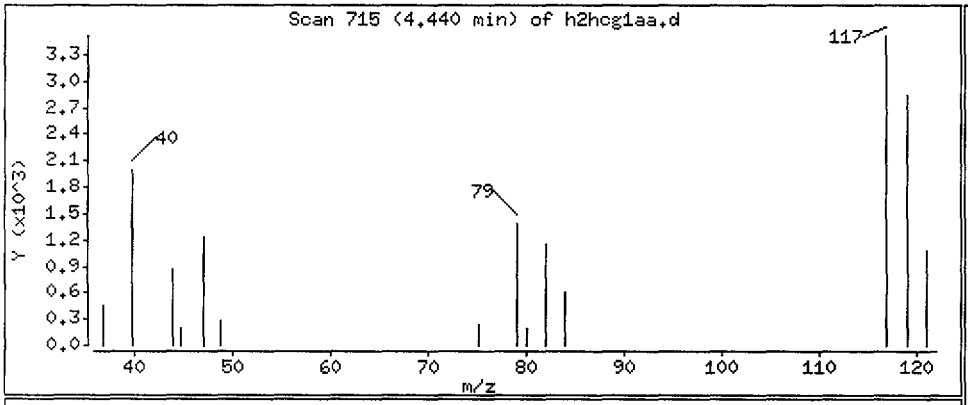
Operator: 22980

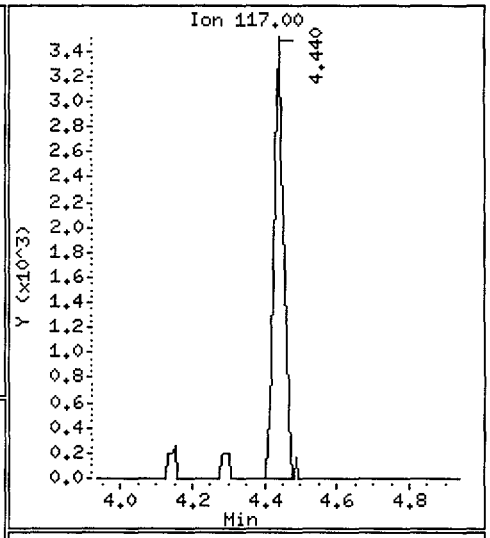
Column phase: J+W 624

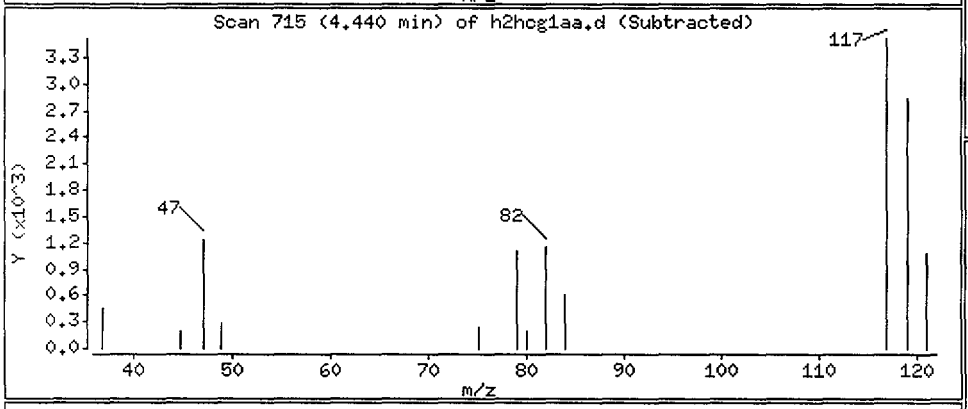
Column diameter: 0.18

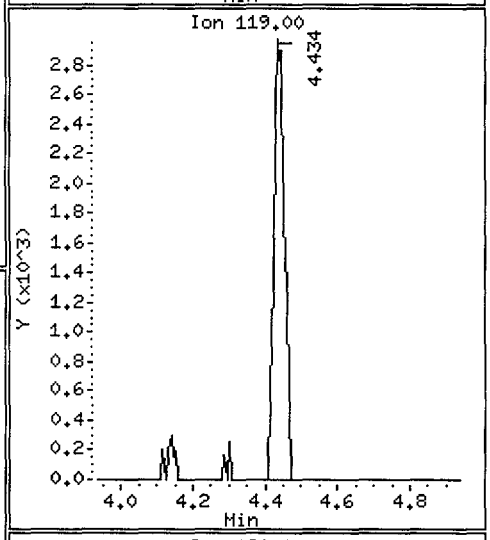
41 Carbon Tetrachloride

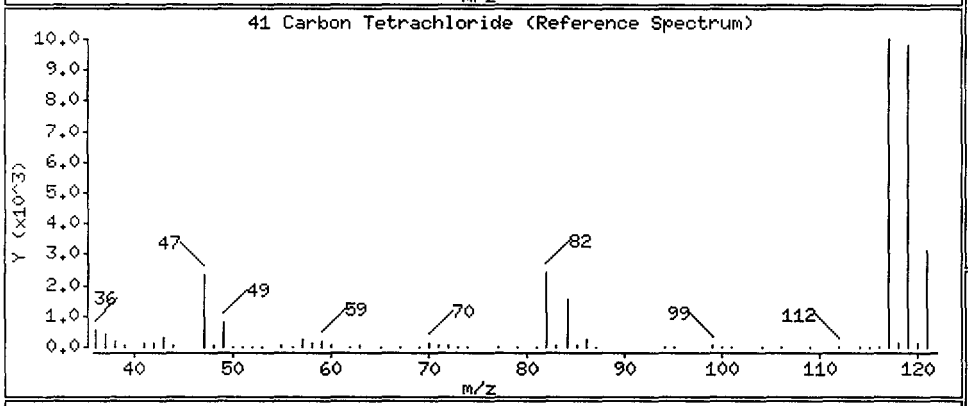
Concentration: 0.0039313 ug

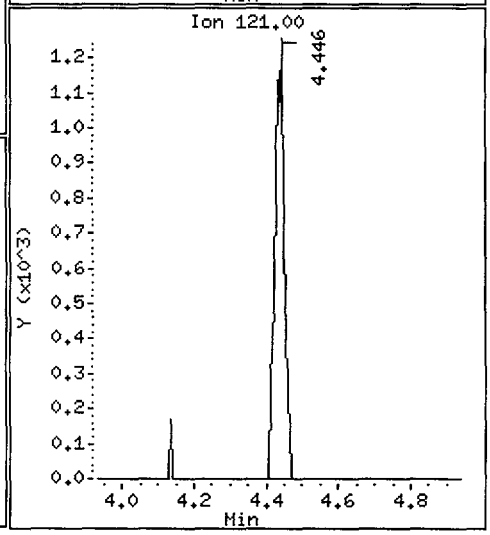


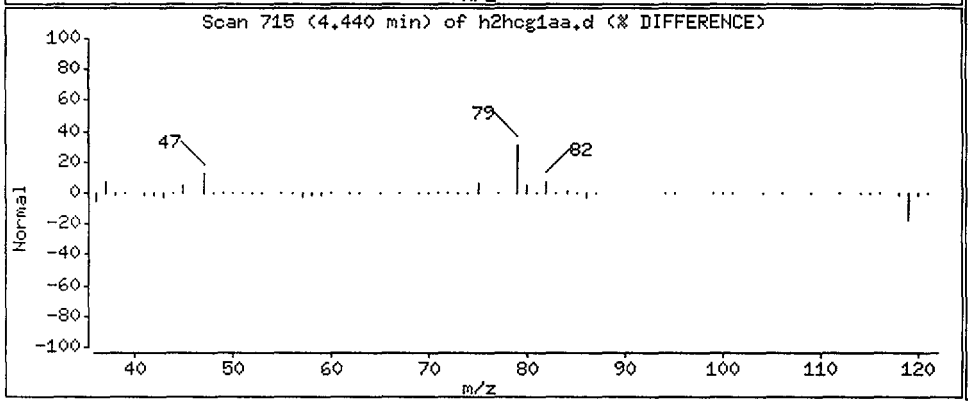












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

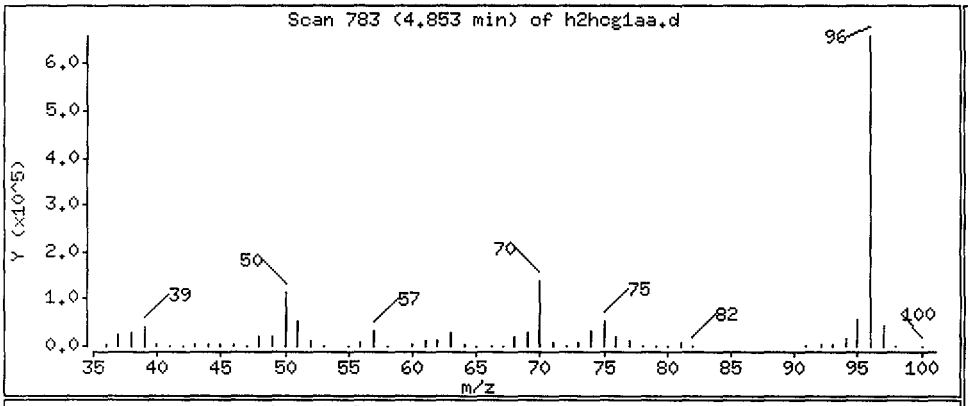
Operator: 22980

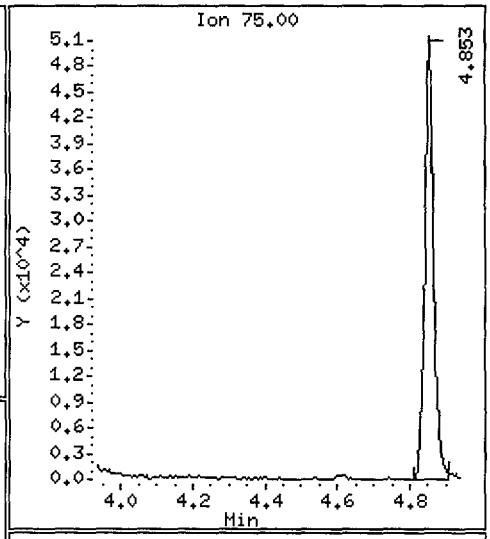
Column phase: J+W 624

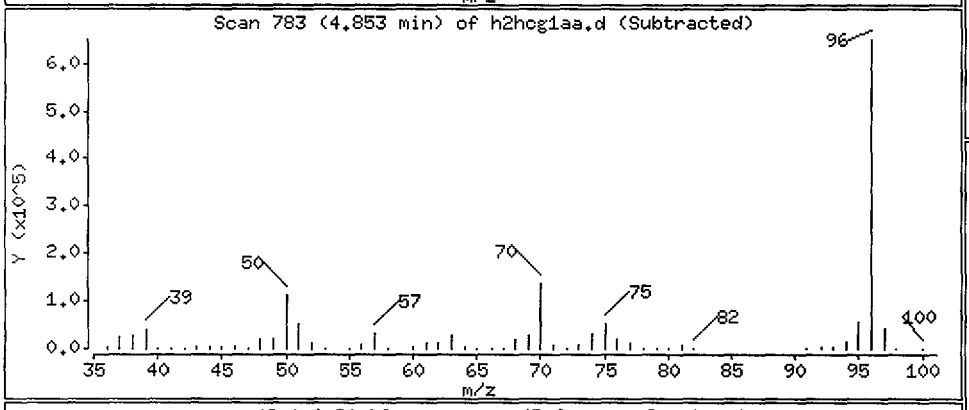
Column diameter: 0.18

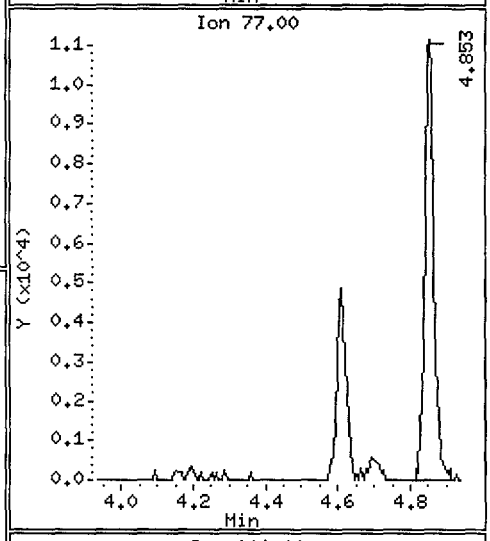
42 1,1-Dichloropropene

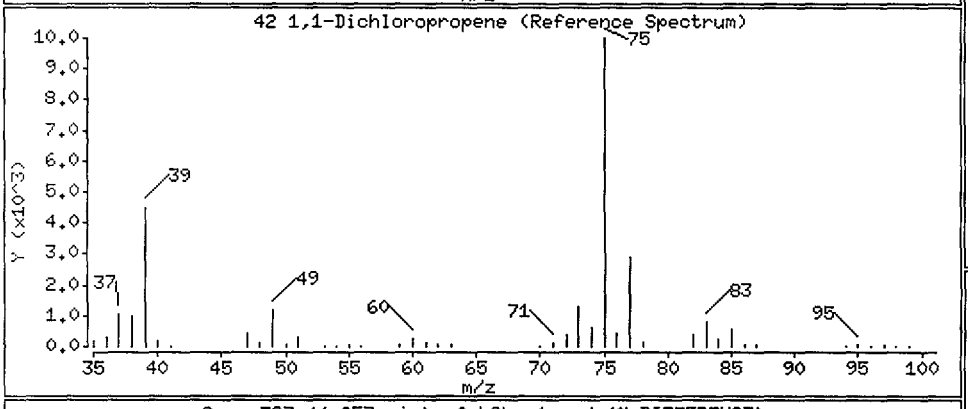
Concentration: 0.049198 ug

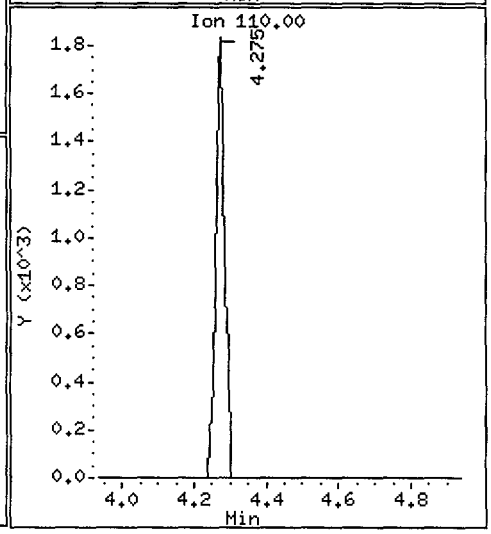


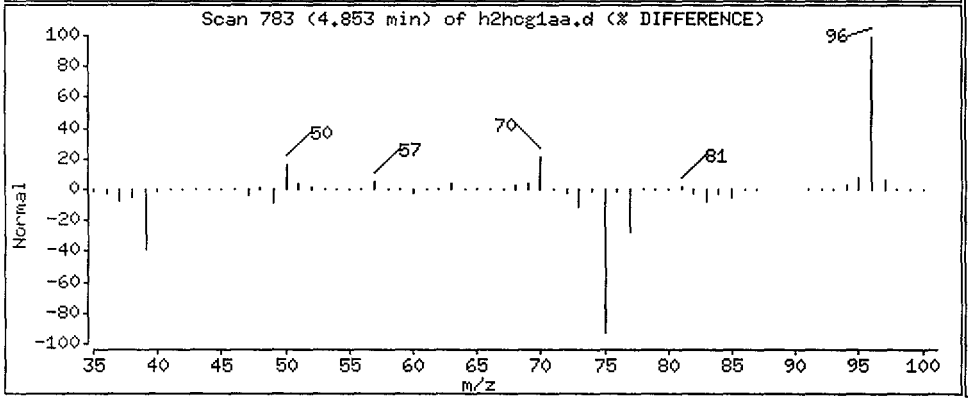












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

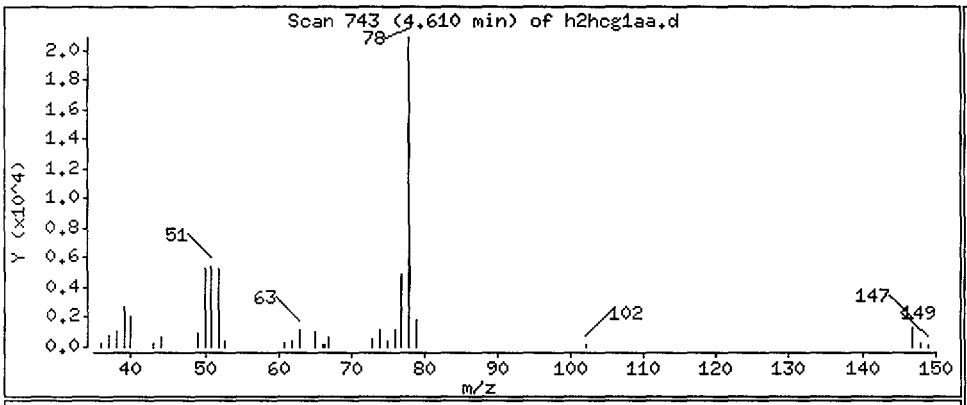
Operator: 22980

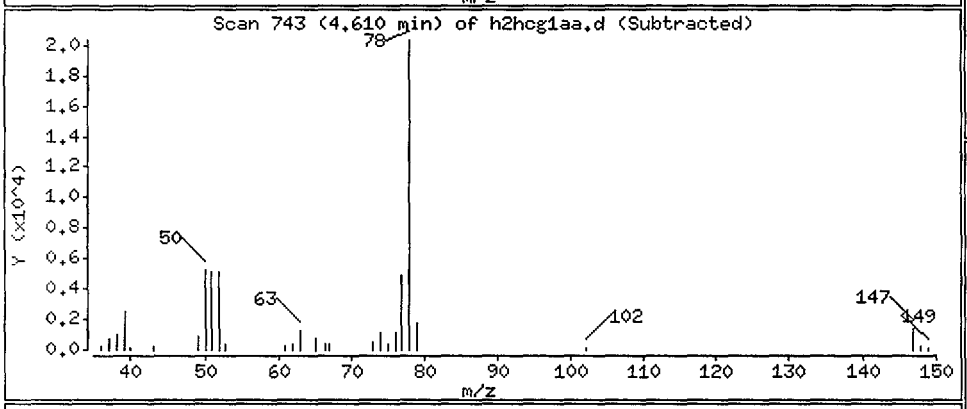
Column phase: J+W 624

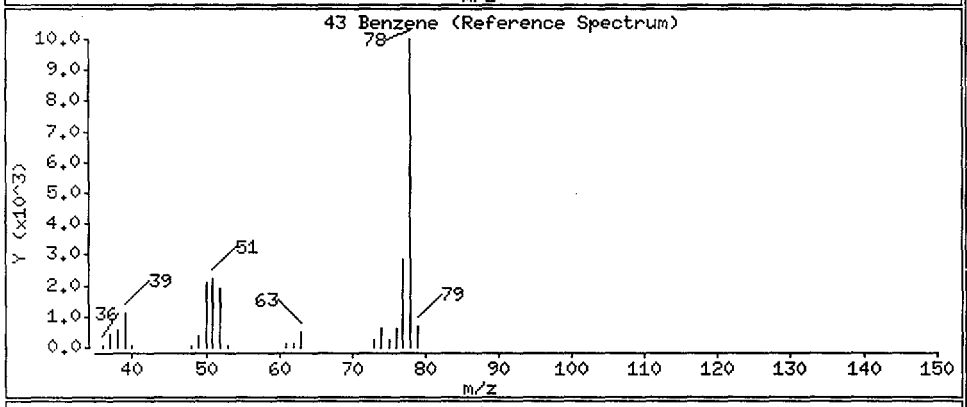
Column diameter: 0.18

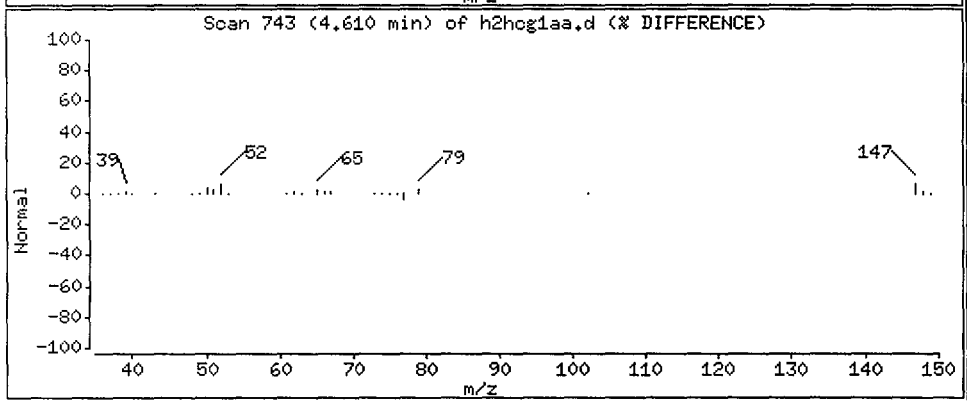
43 Benzene

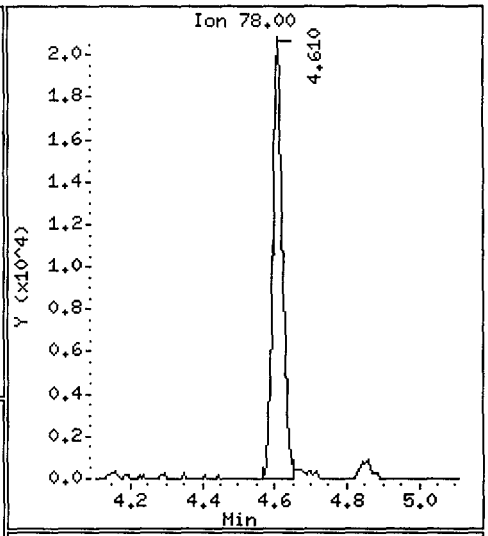
Concentration: 0.0083212 ug

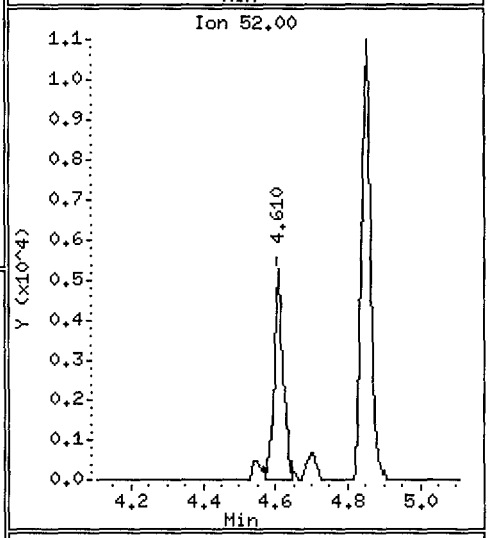


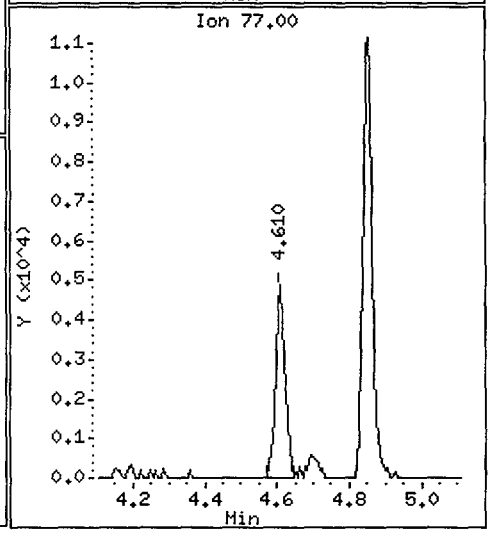












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

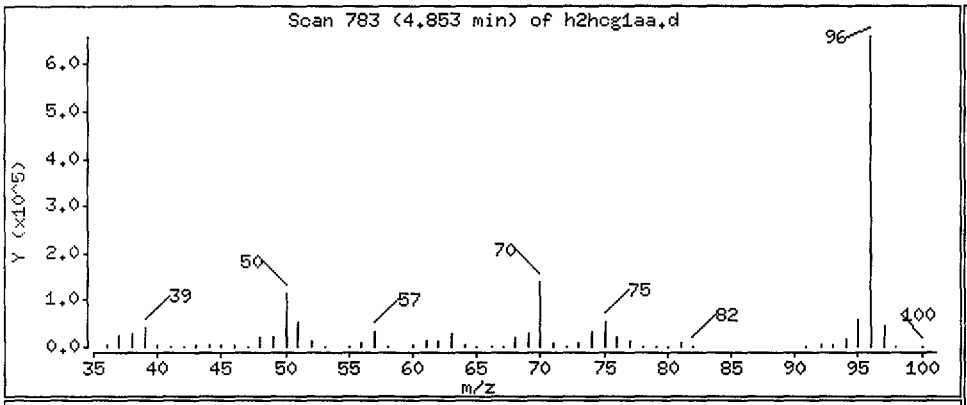
Operator: 22980

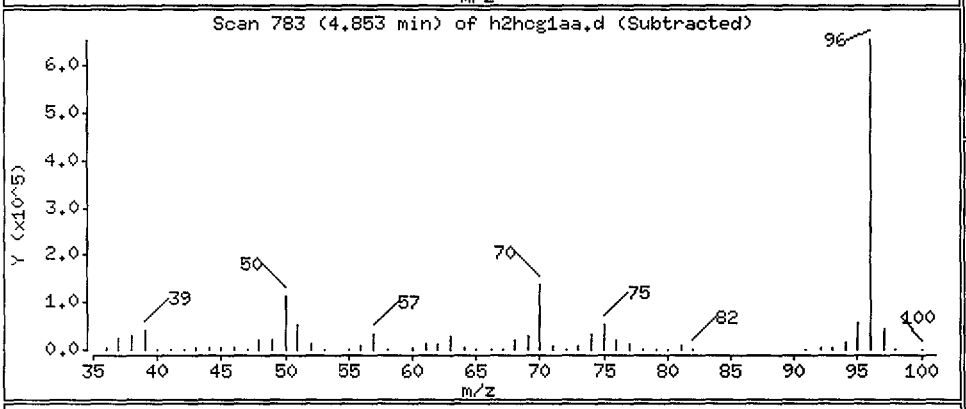
Column phase: J+W 624

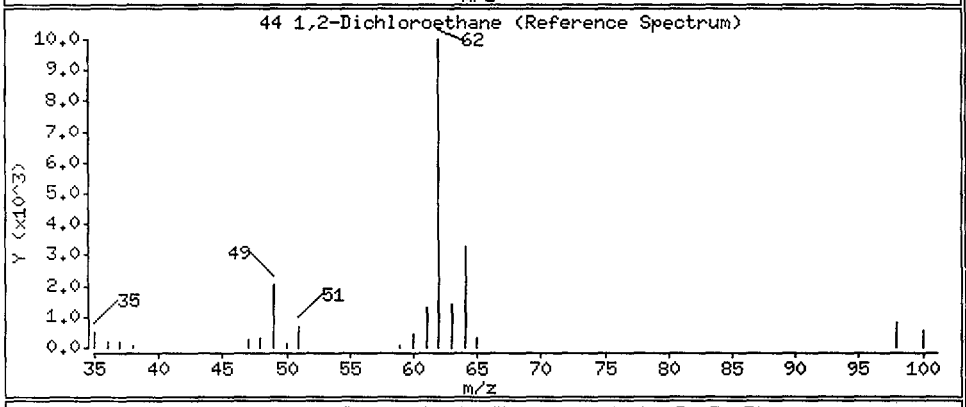
Column diameter: 0.18

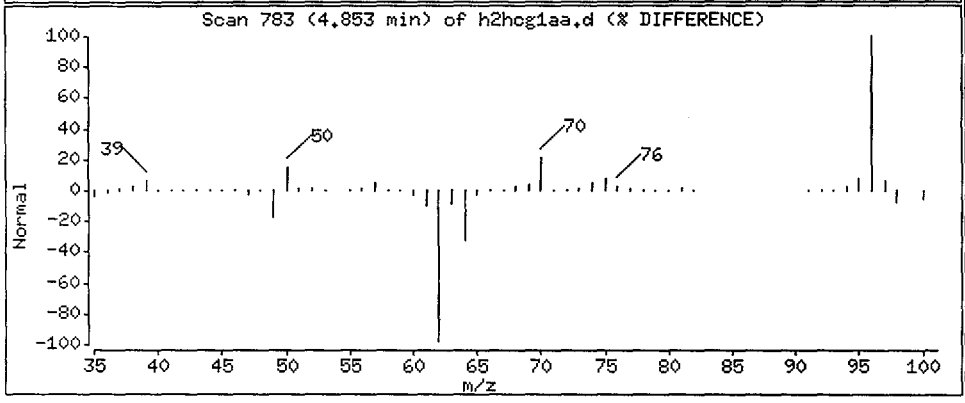
44 1,2-Dichloroethane

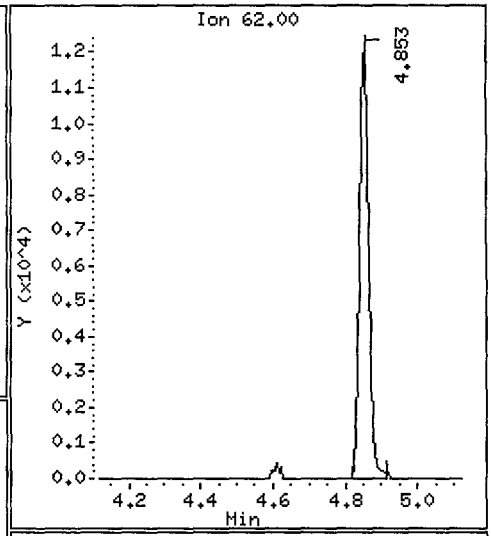
Concentration: 0.025698 ug

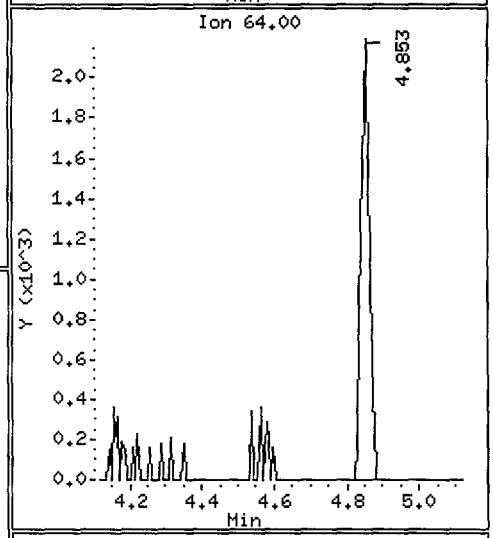


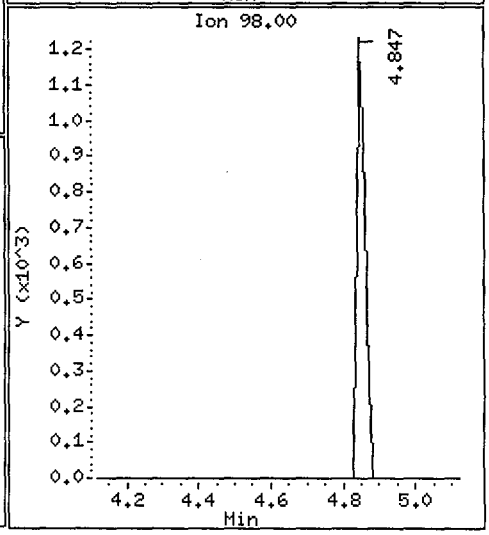












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

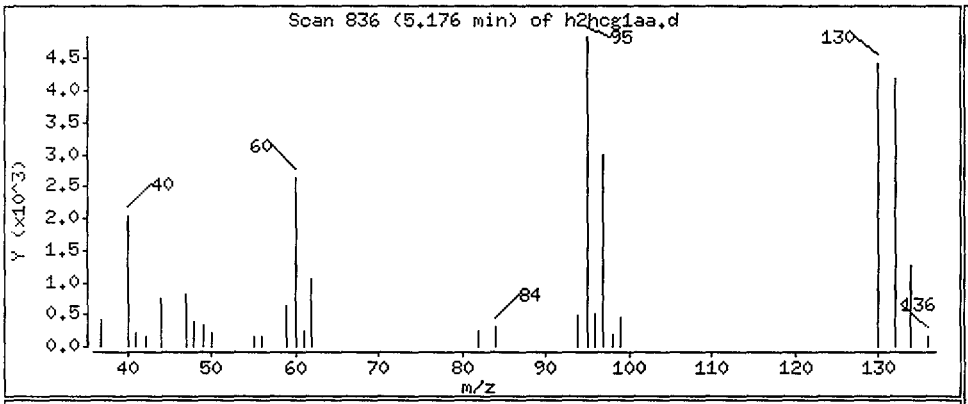
Operator: 22980

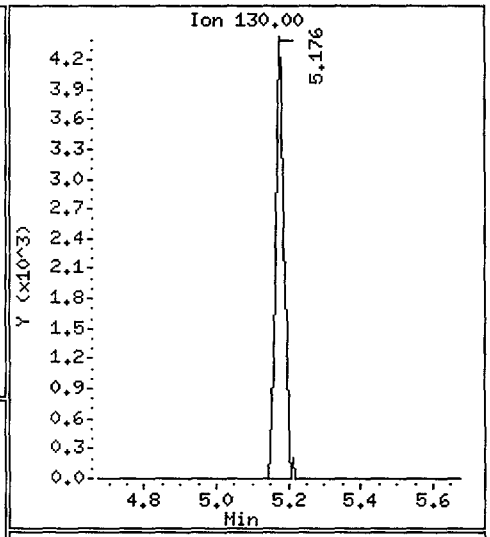
Column phase: J+W 624

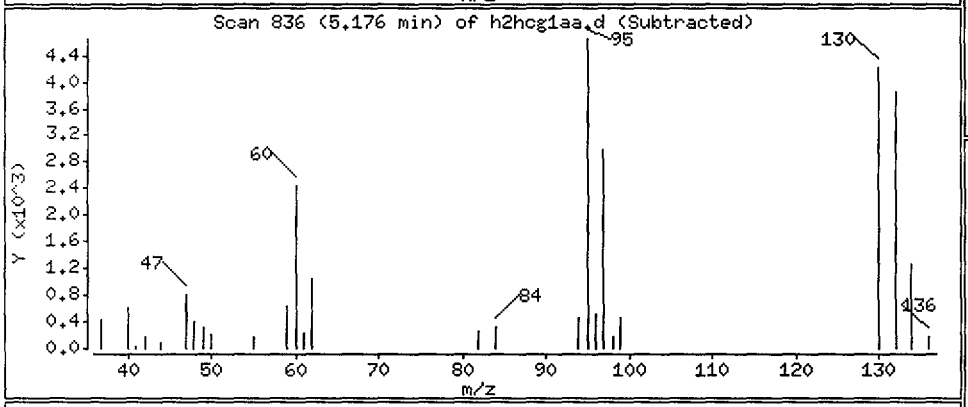
Column diameter: 0.18

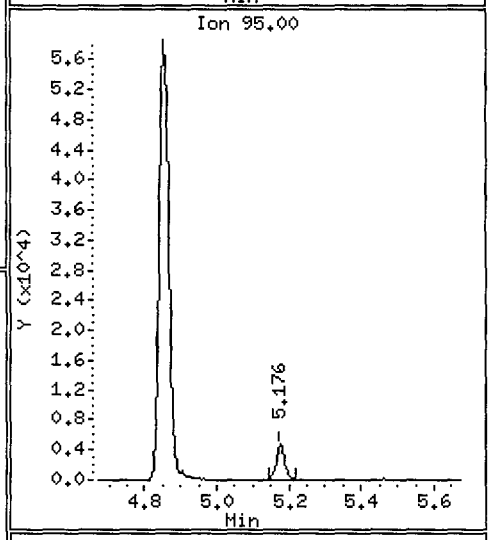
45 Trichloroethene

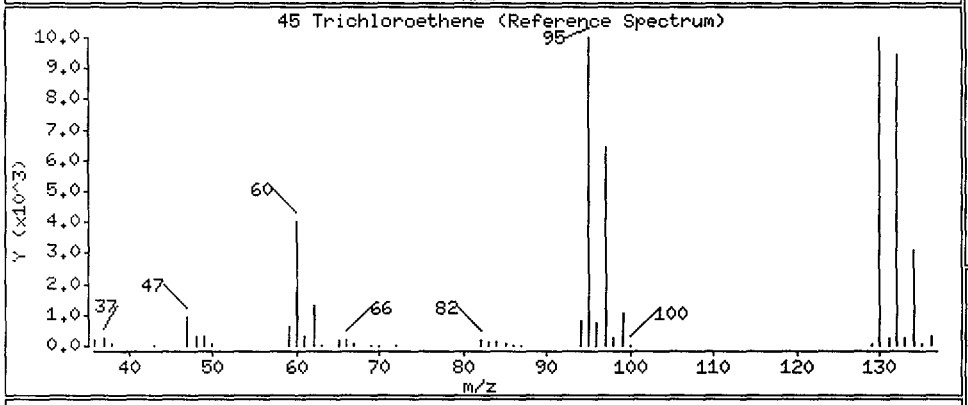
Concentration: 0.0057030 ug

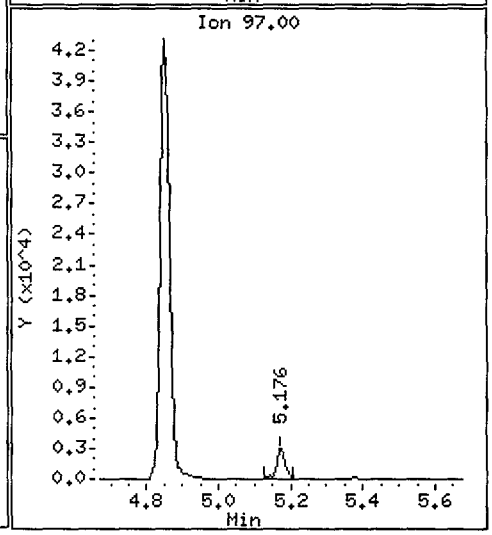


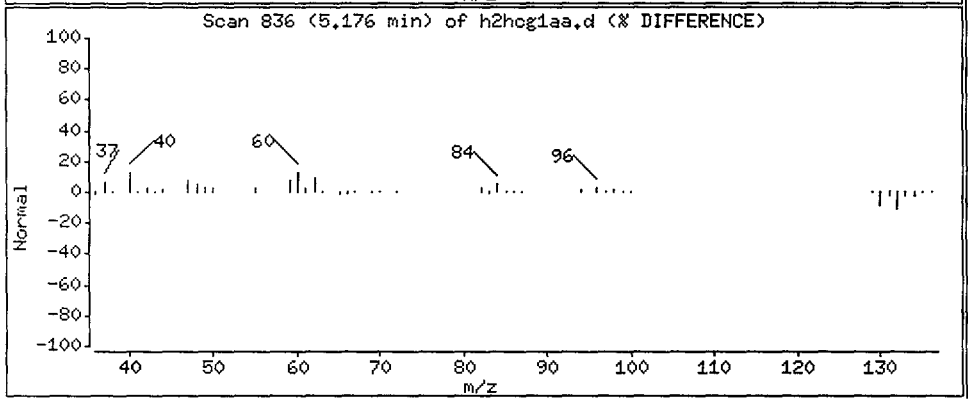












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

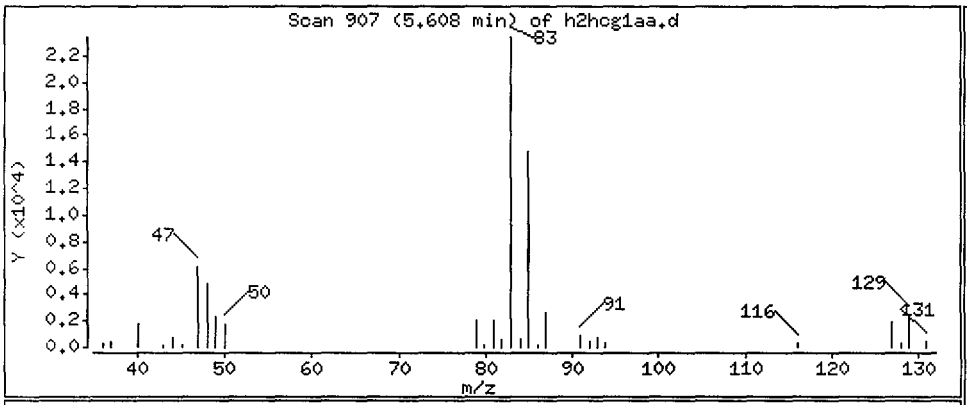
Operator: 22980

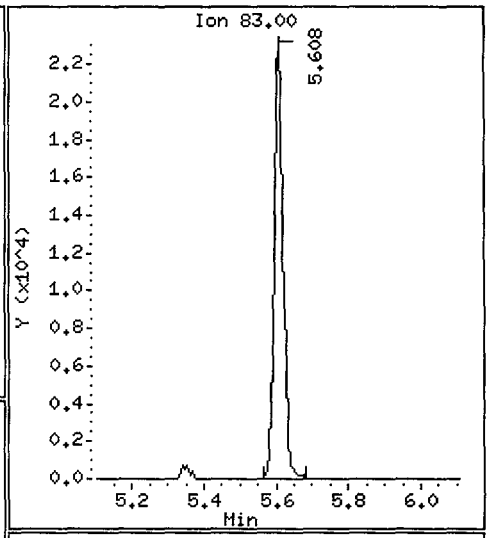
Column phase: J+W 624

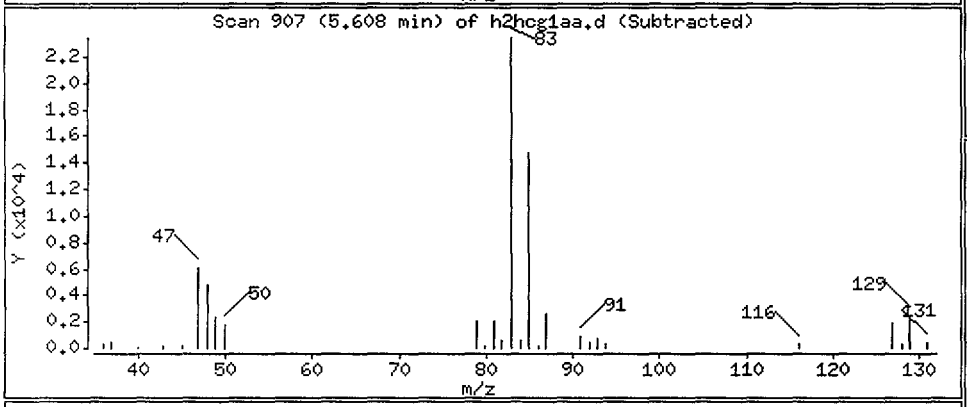
Column diameter: 0.18

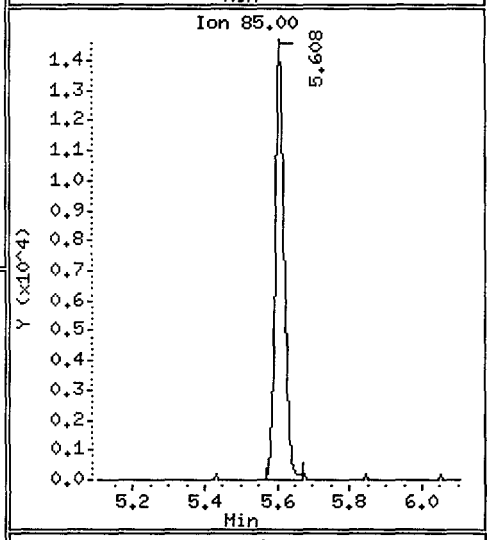
49 Bromodichloromethane

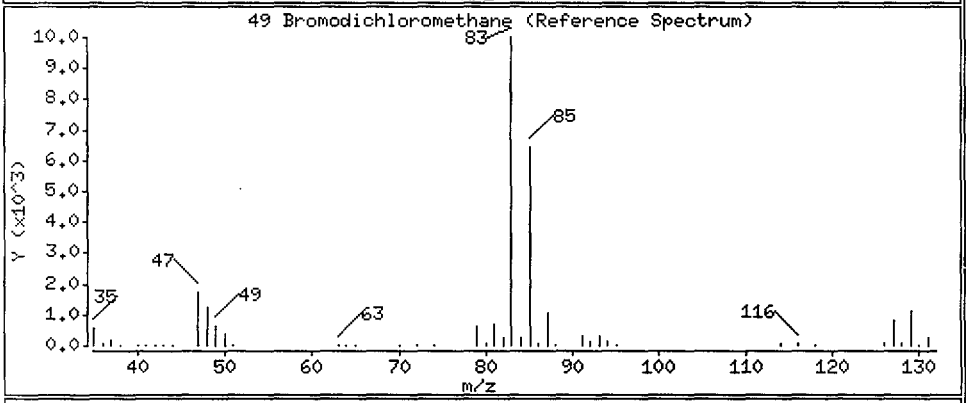
Concentration: 0.040699 ug

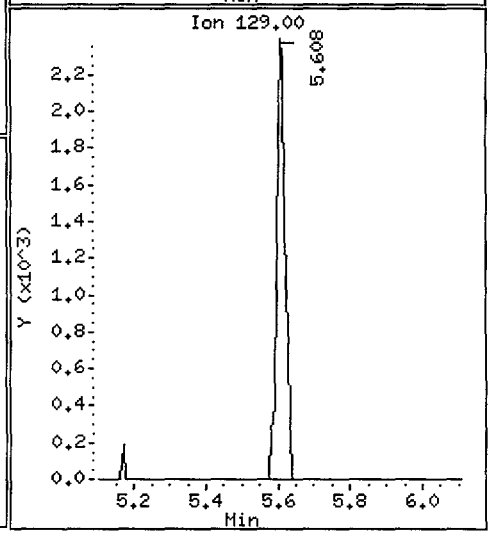


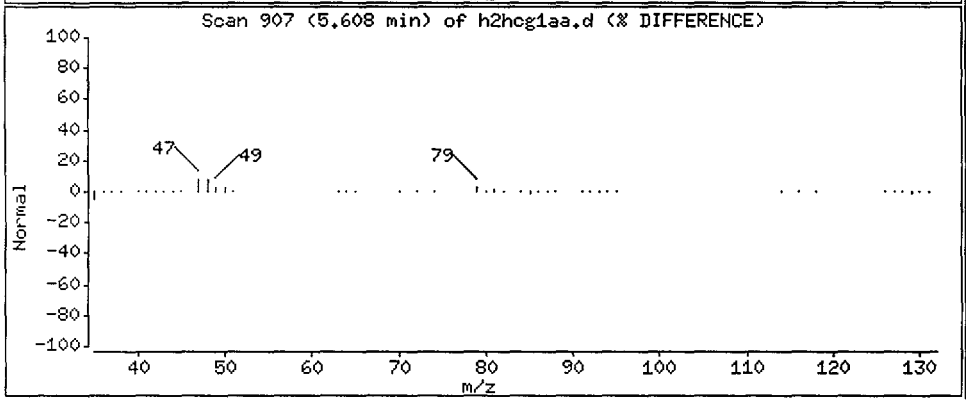












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

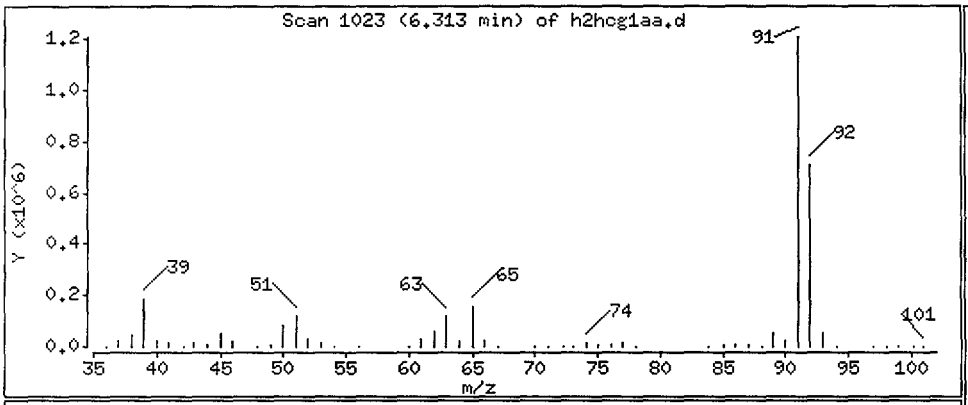
Operator: 22980

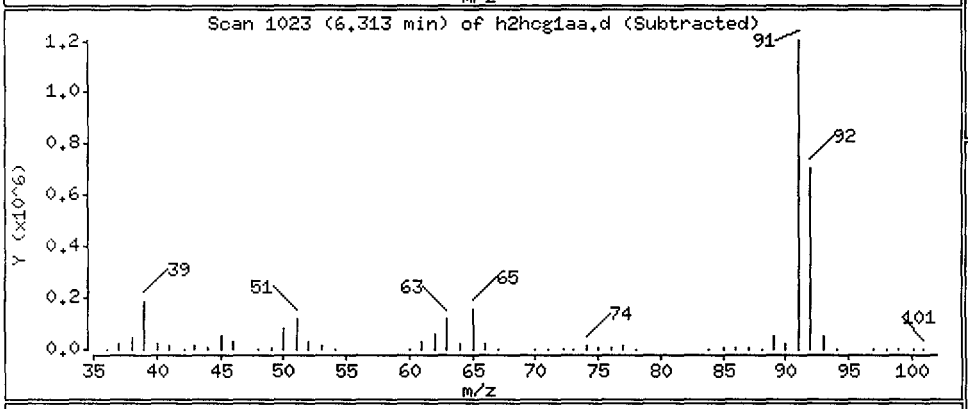
Column phase: J+W 624

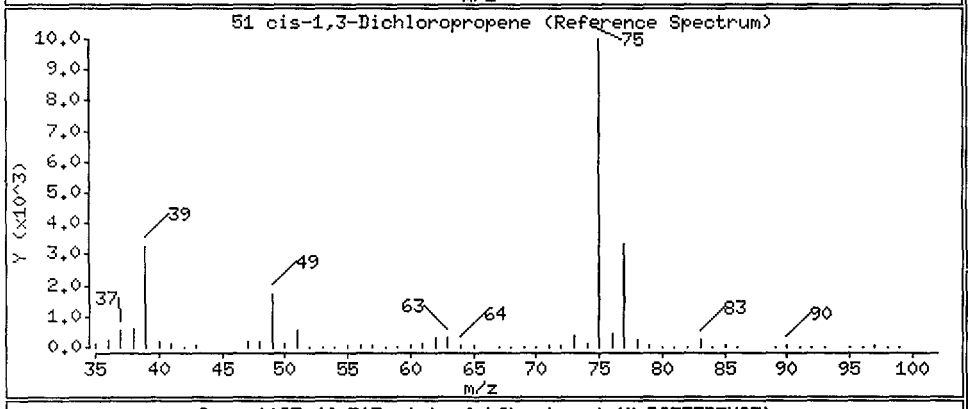
Column diameter: 0.18

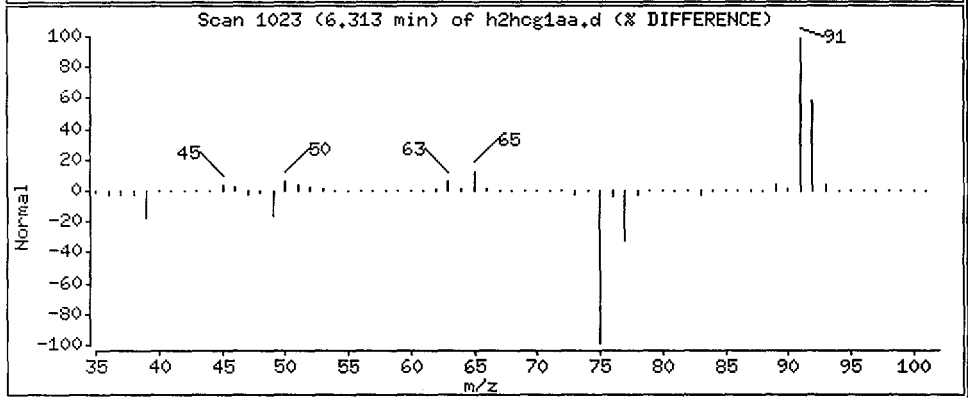
51 cis-1,3-Dichloropropene

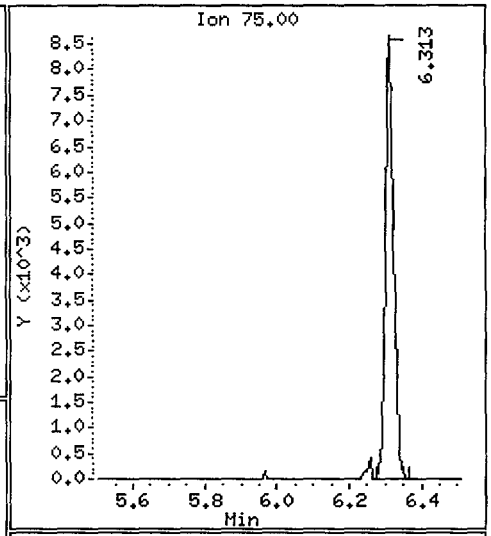
Concentration: 0.011704 ug

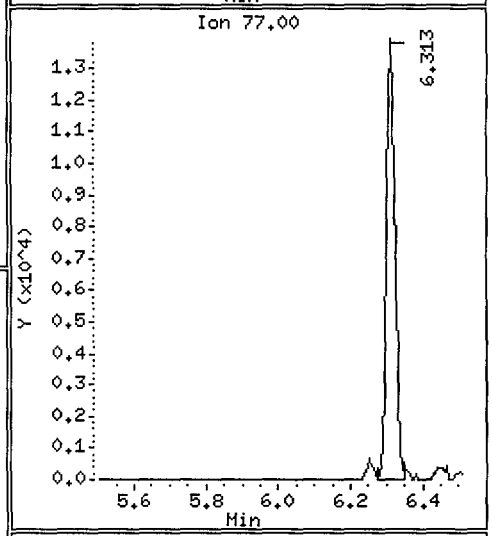


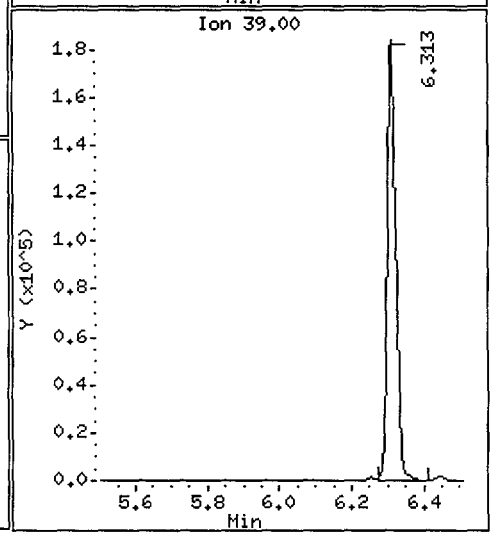












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

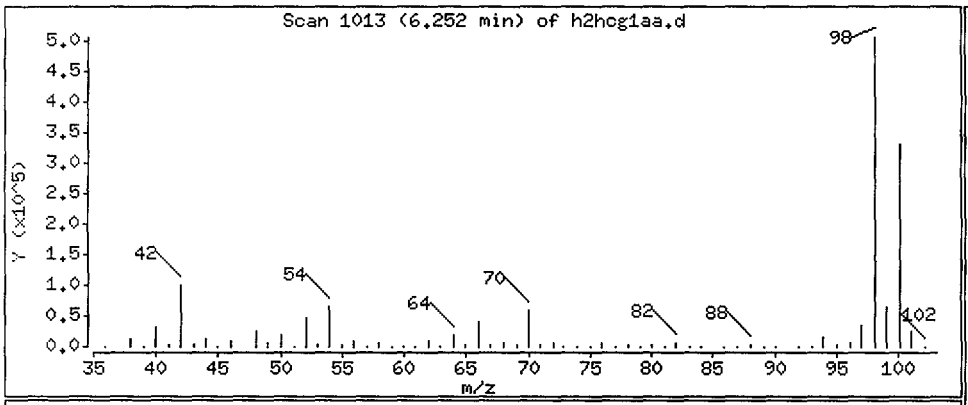
Operator: 22980

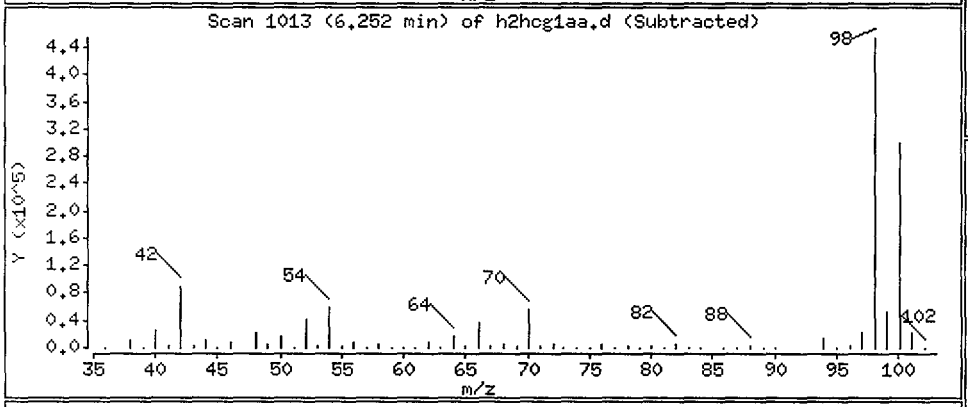
Column phase: J+W 624

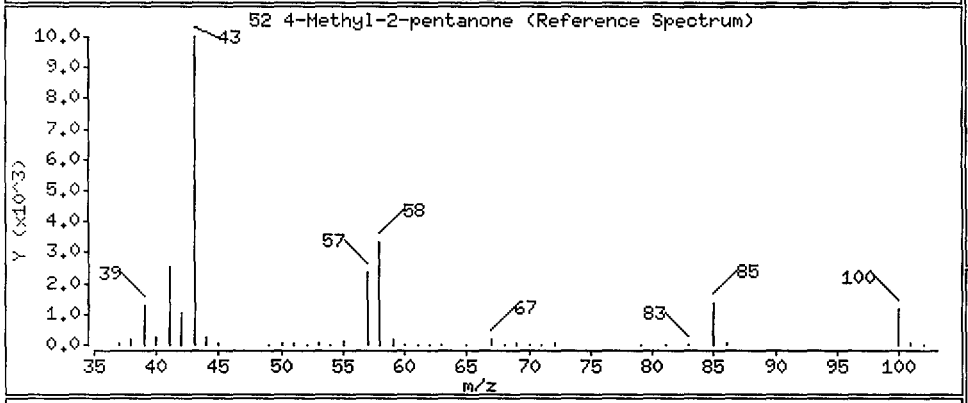
Column diameter: 0.18

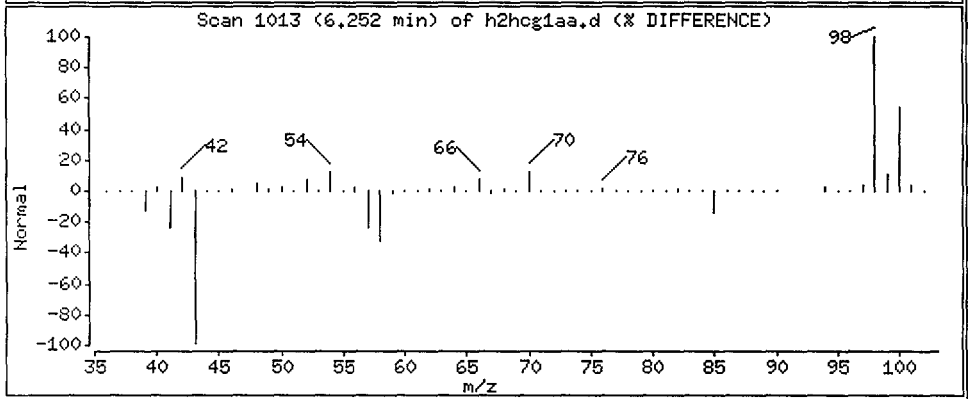
52 4-Methyl-2-pentanone

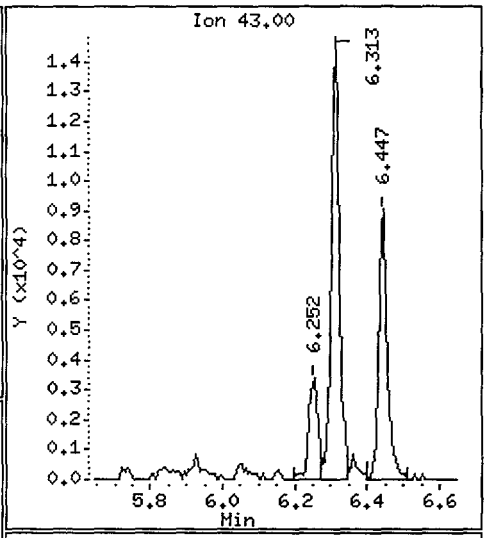
Concentration: 0.023376 ug

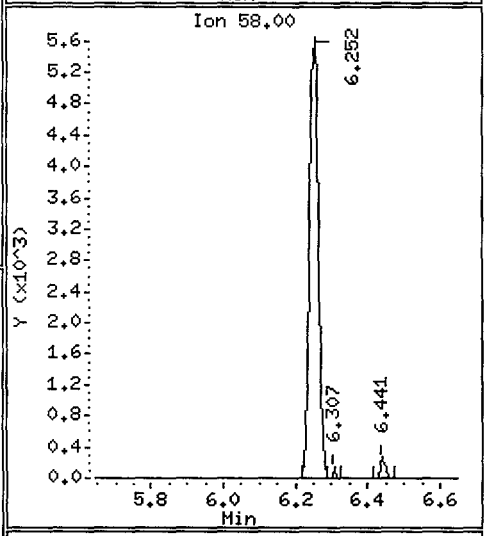


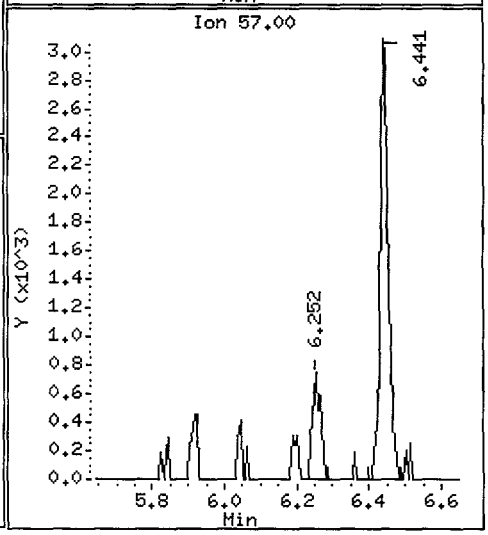












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

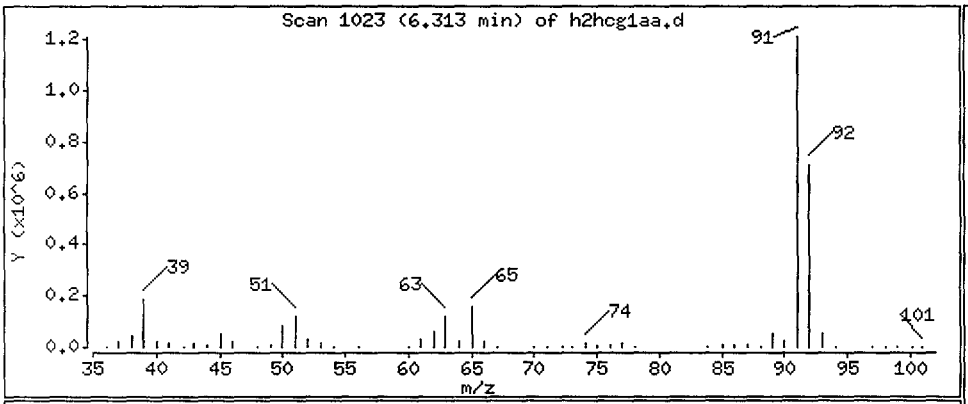
Operator: 22980

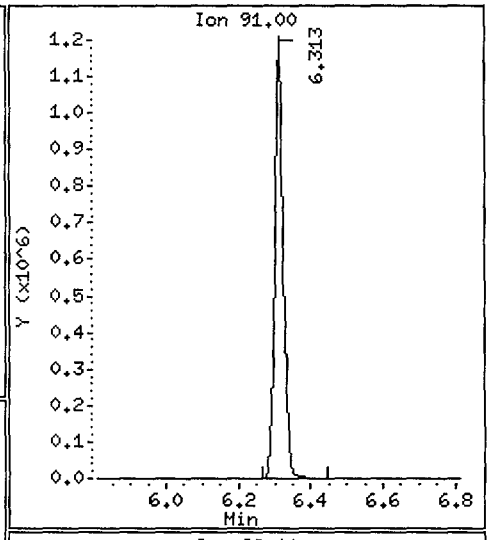
Column phase: J+W 624

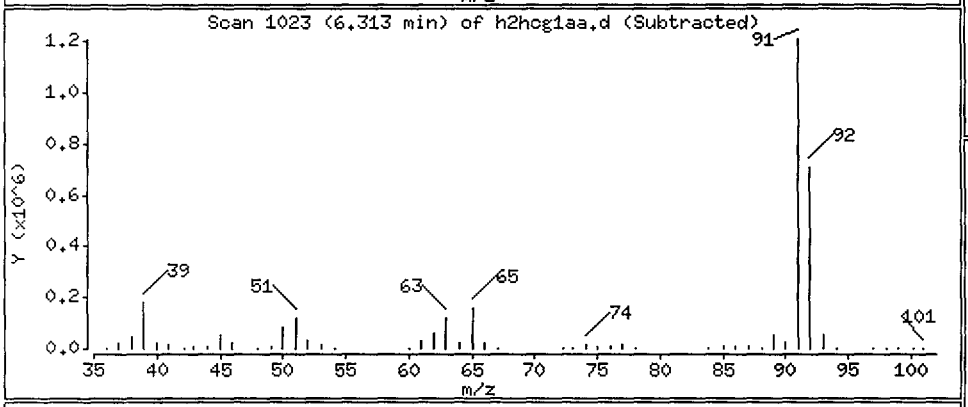
Column diameter: 0.18

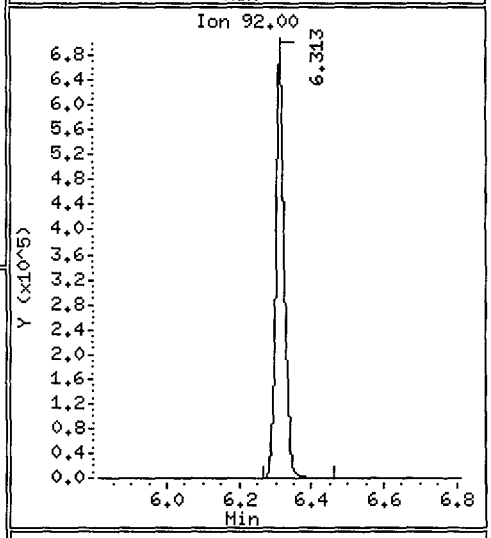
53 Toluene (ccc)

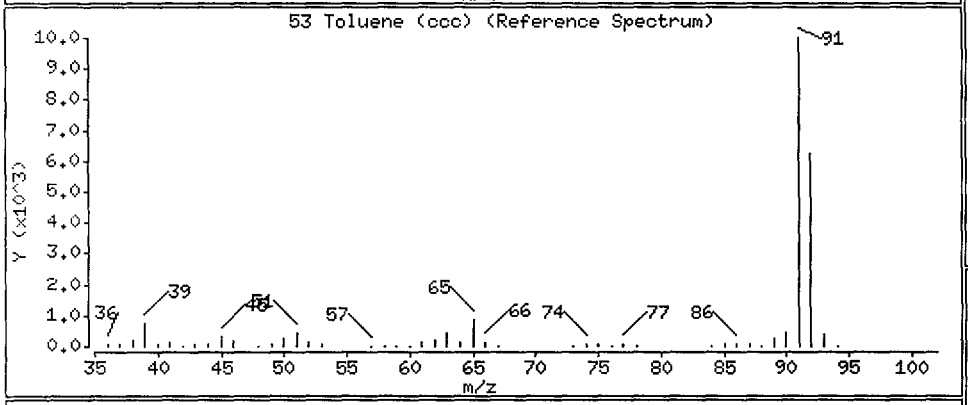
Concentration: 0.36784 ug

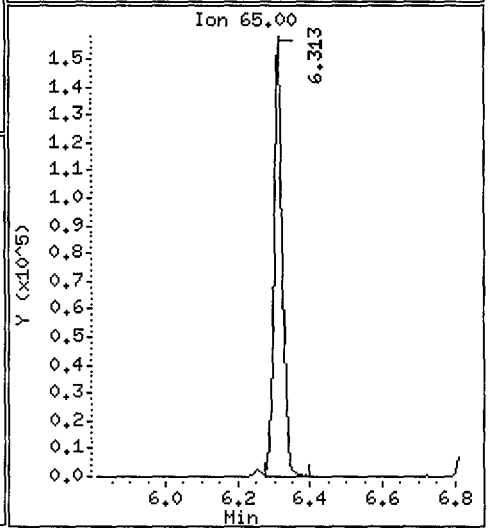


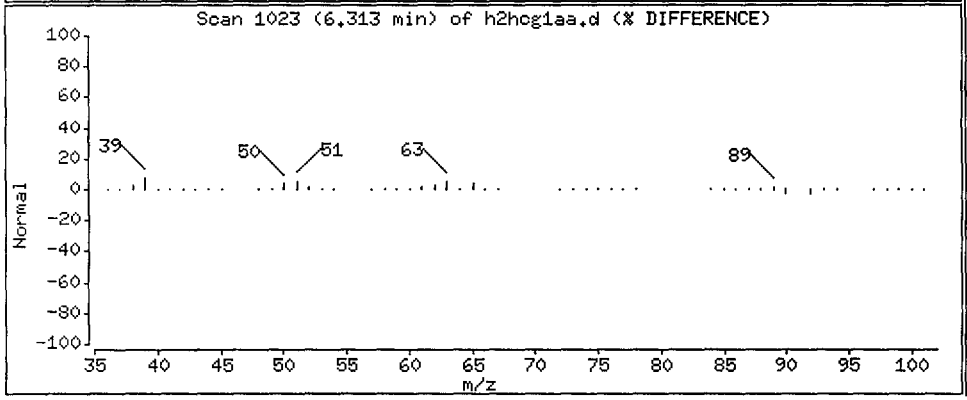












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

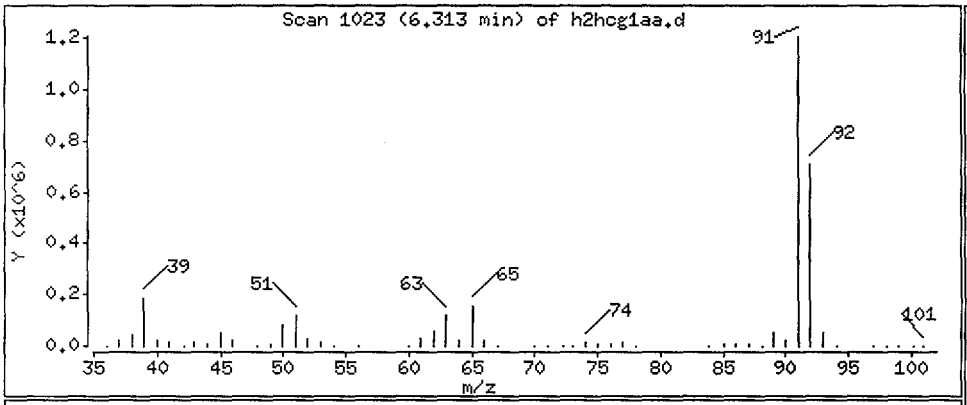
Operator: 22980

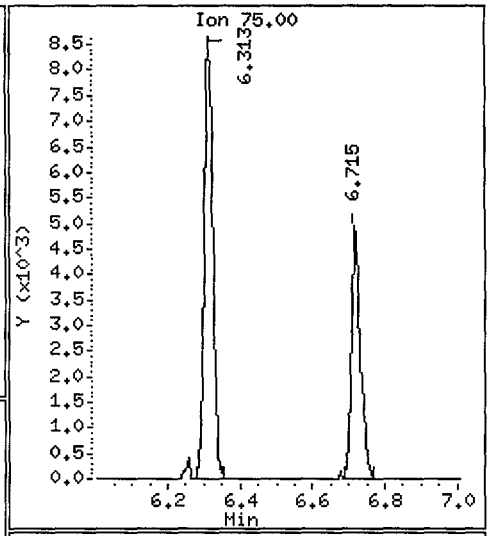
Column phase: J+W 624

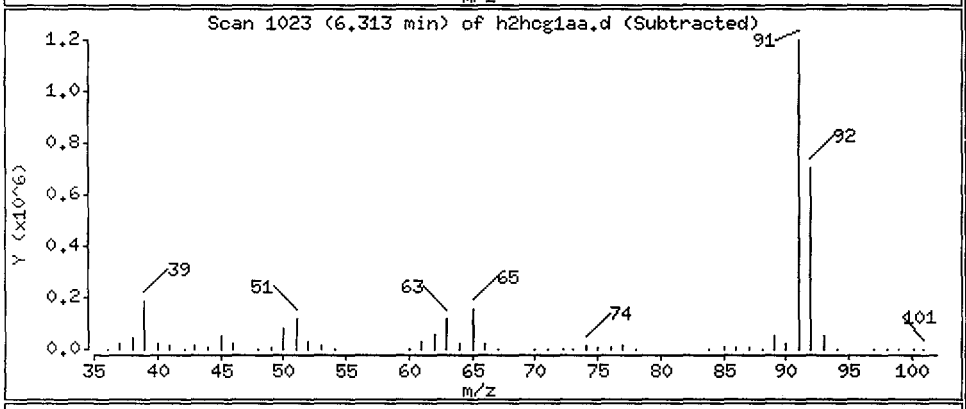
Column diameter: 0.18

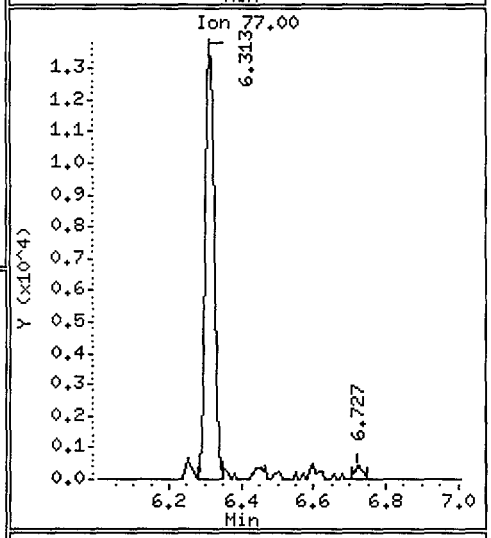
54 trans-1,3-Dichloropropene

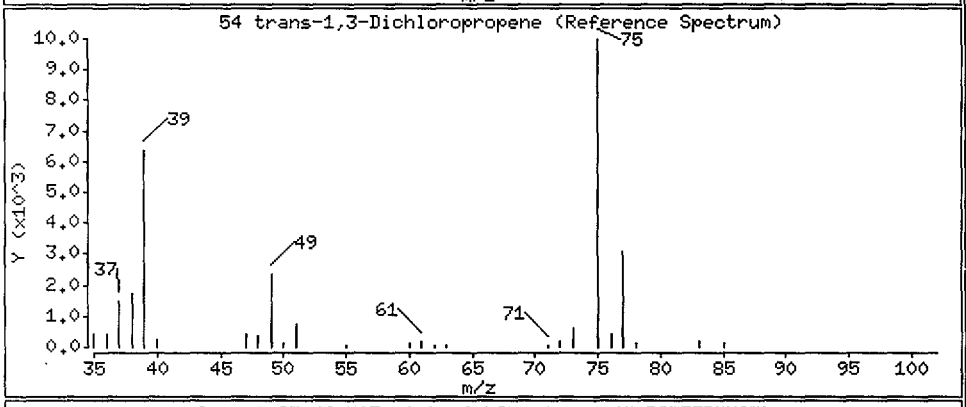
Concentration: 0.014389 ug

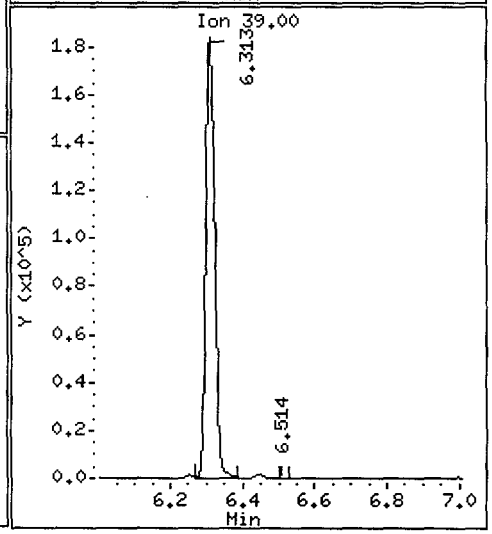


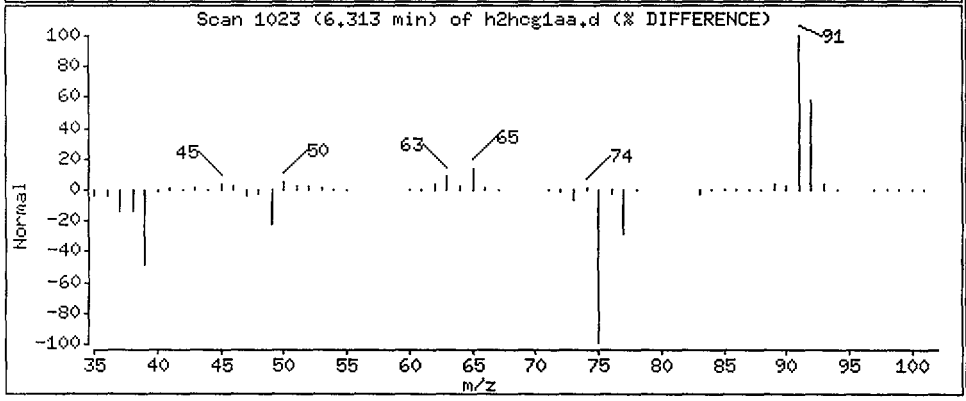












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

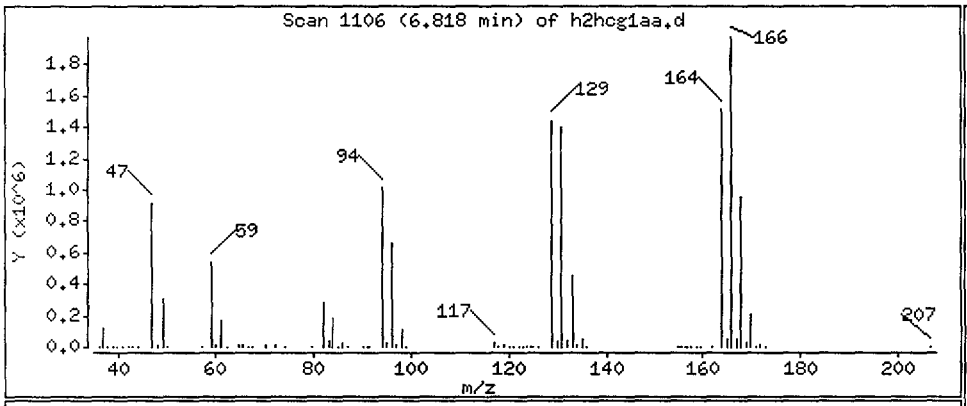
Operator: 22980

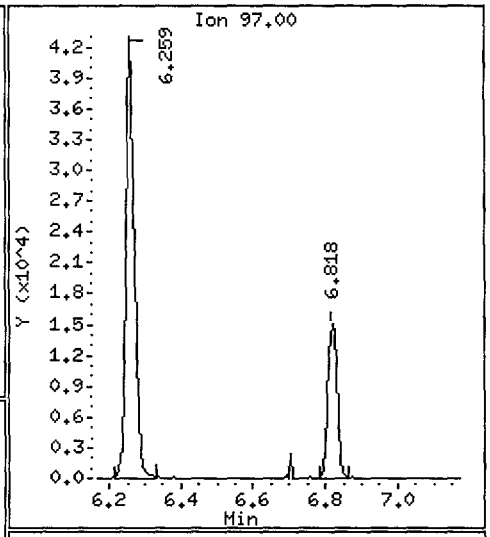
Column phase: J+W 624

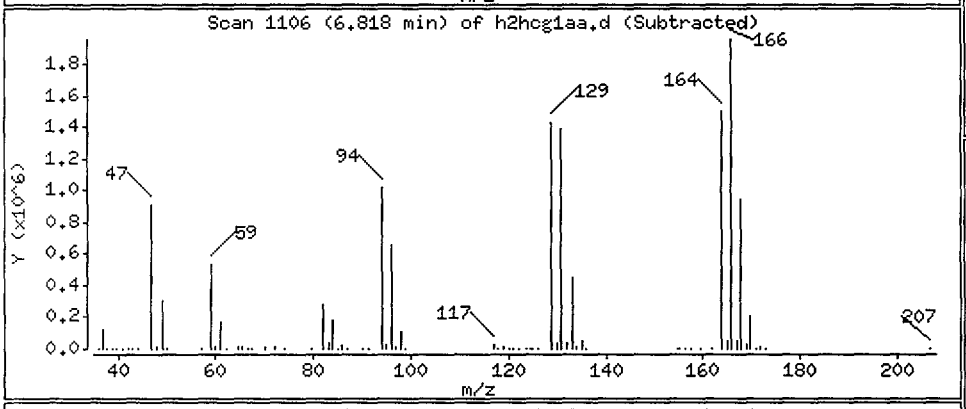
Column diameter: 0.18

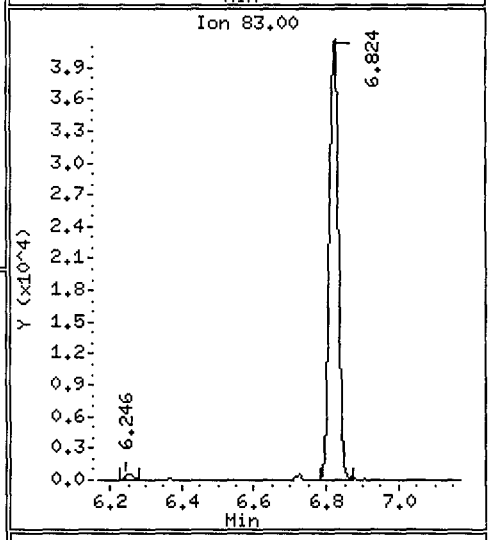
56 1,1,2-Trichloroethane

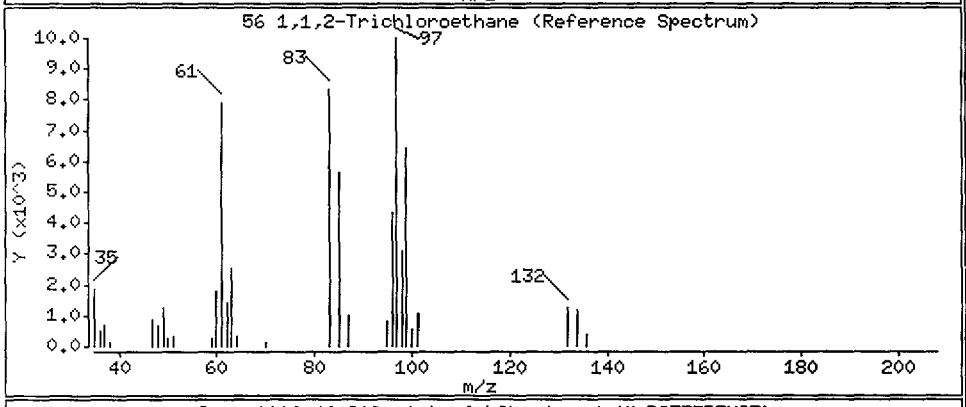
Concentration: 0.061646 ug

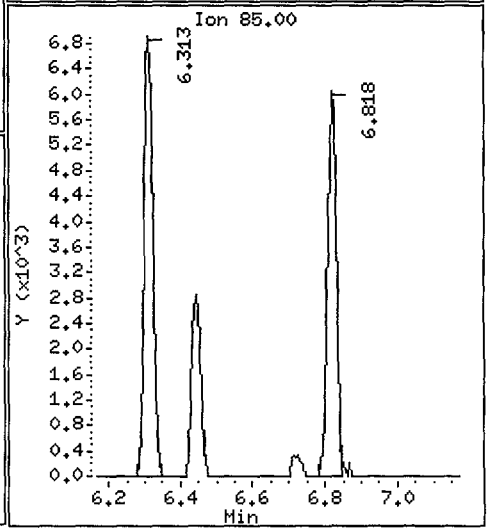


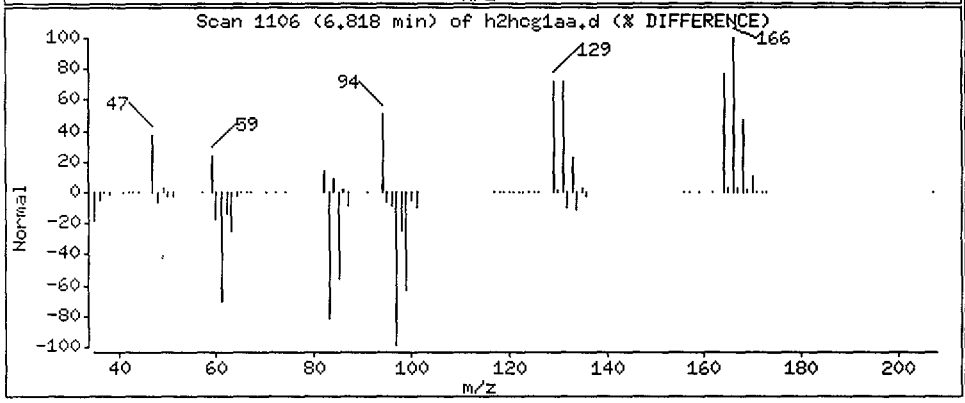












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

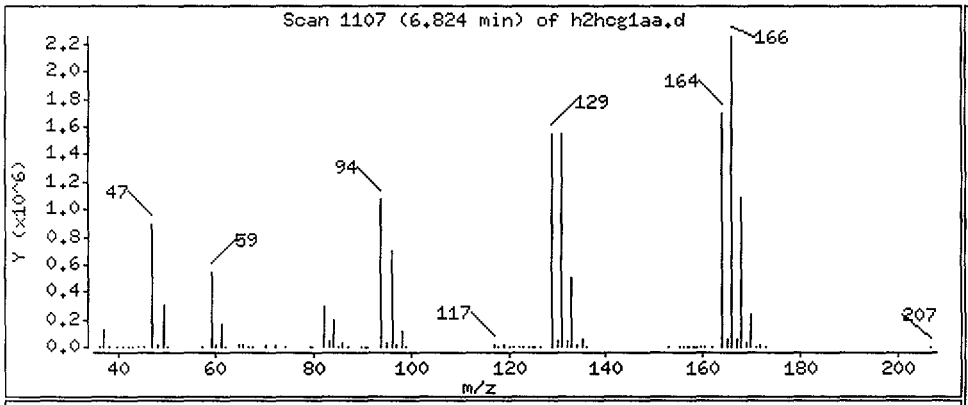
Operator: 22980

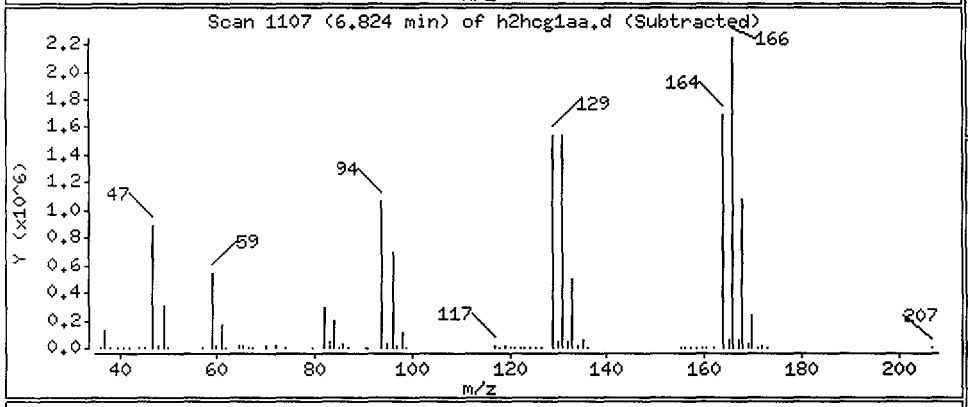
Column phase: J+W 624

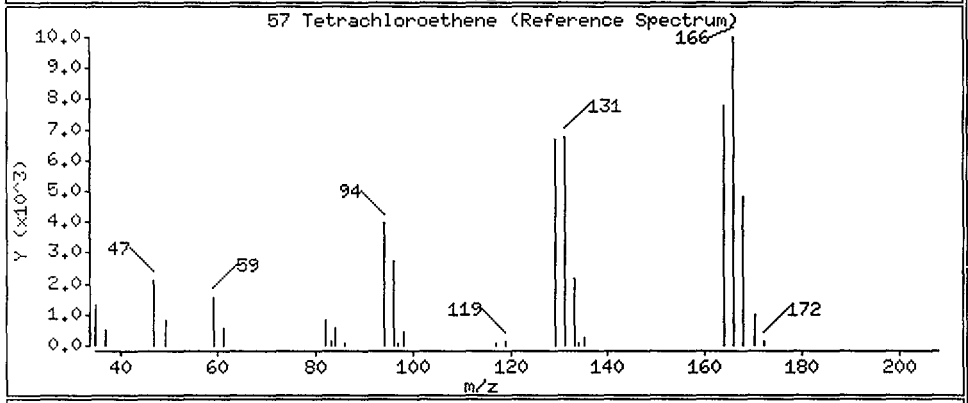
Column diameter: 0.18

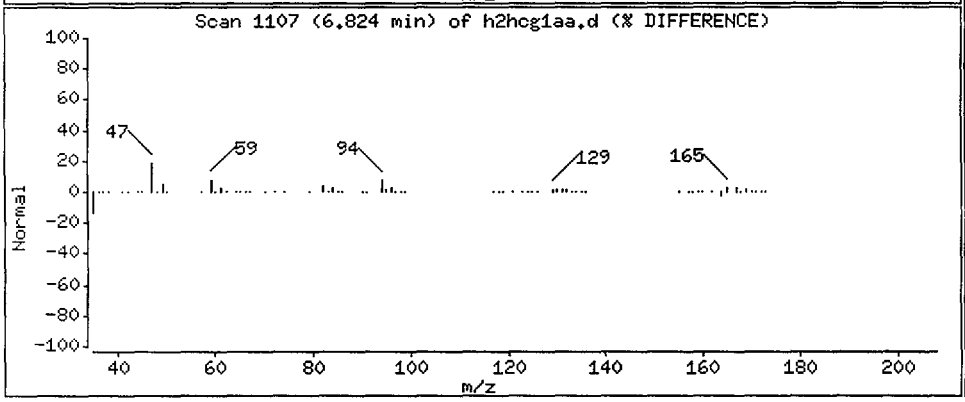
57 Tetrachloroethene

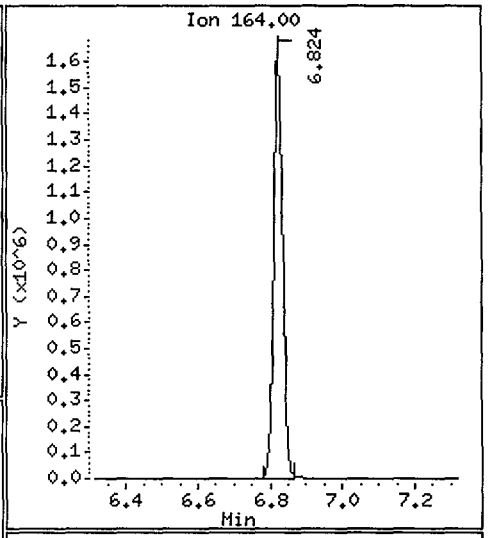
Concentration: 2.4133 ug

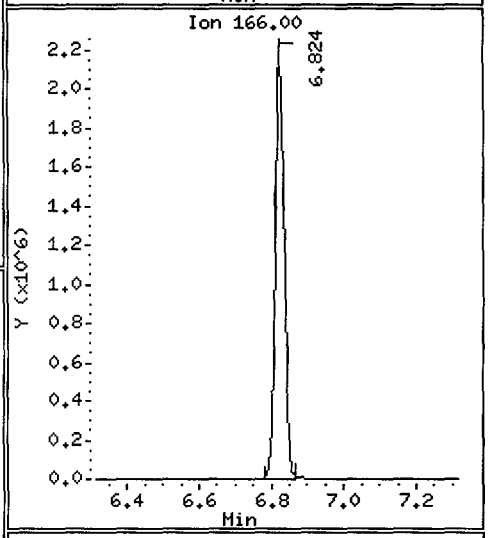


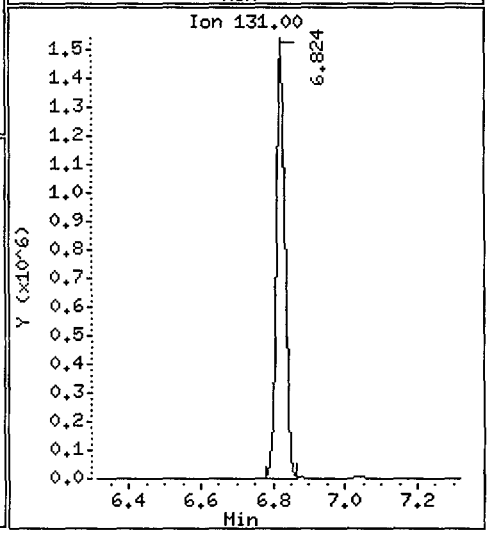












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

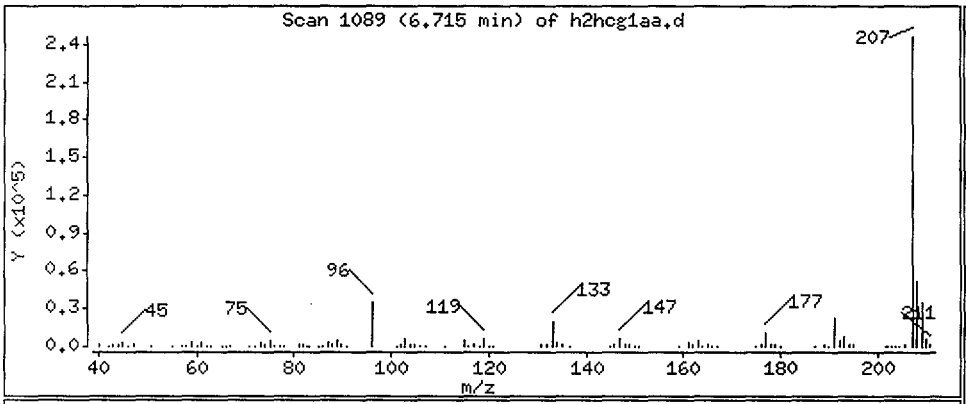
Operator: 22980

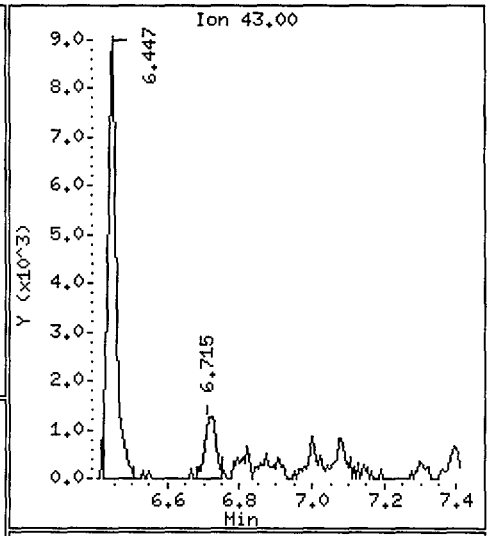
Column phase: J+W 624

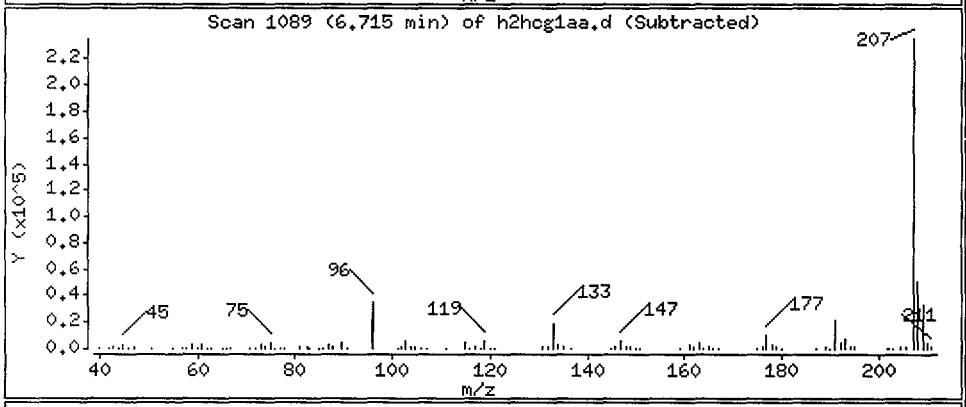
Column diameter: 0.18

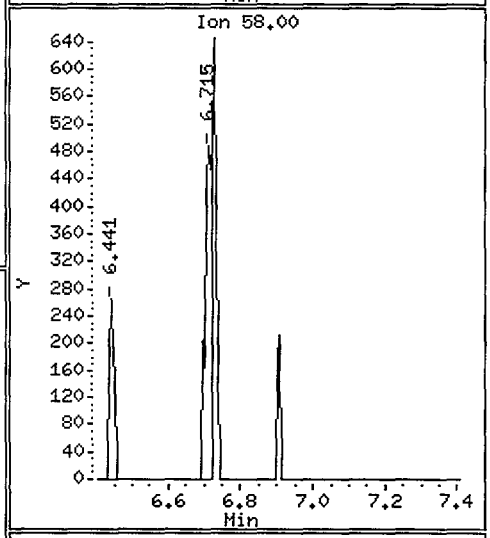
59 2-Hexanone

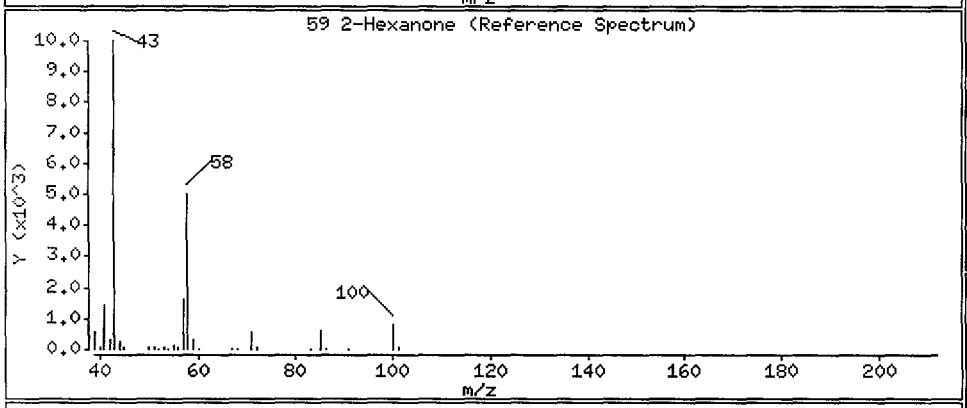
Concentration: 0.015293 ug

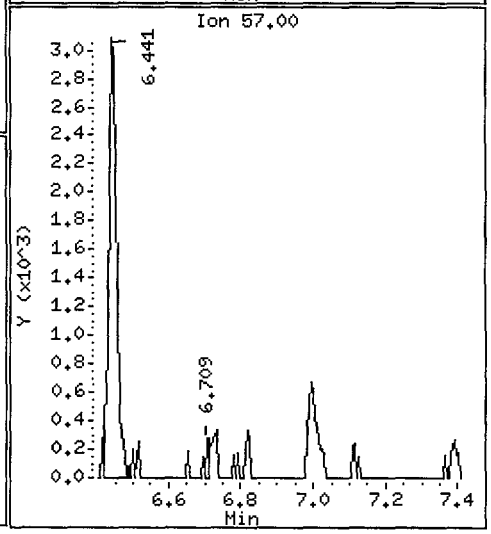


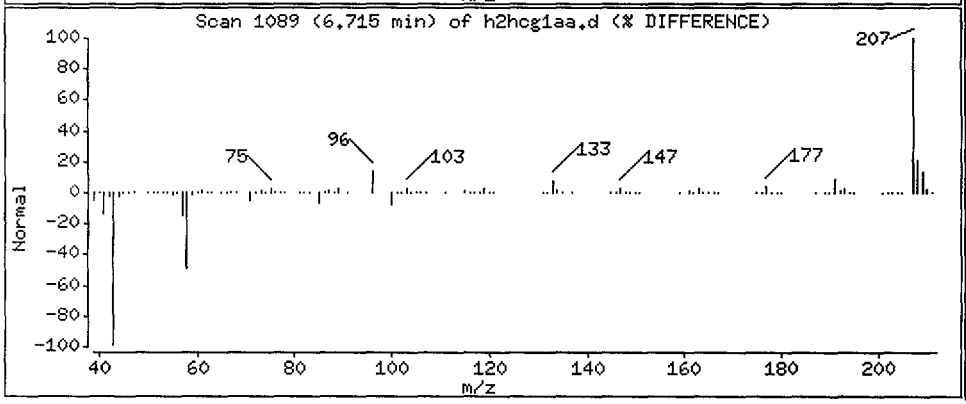












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

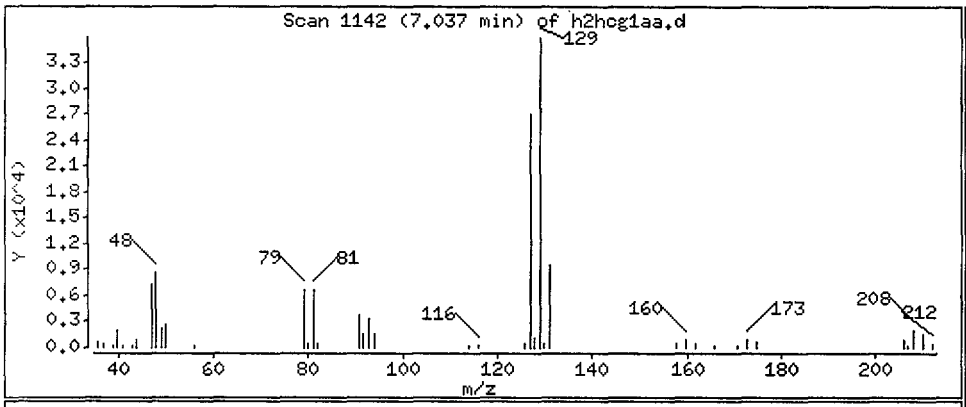
Operator: 22980

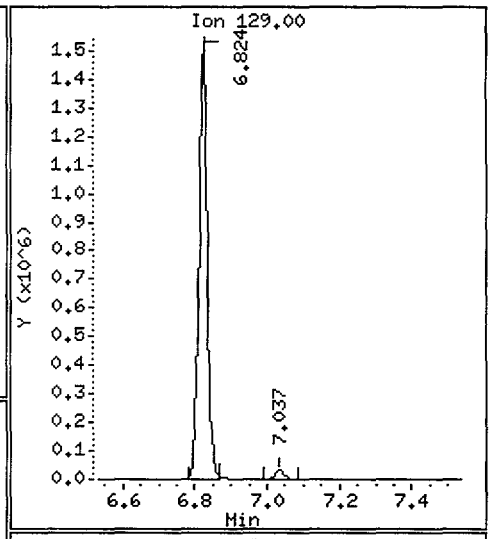
Column phase: J+W 624

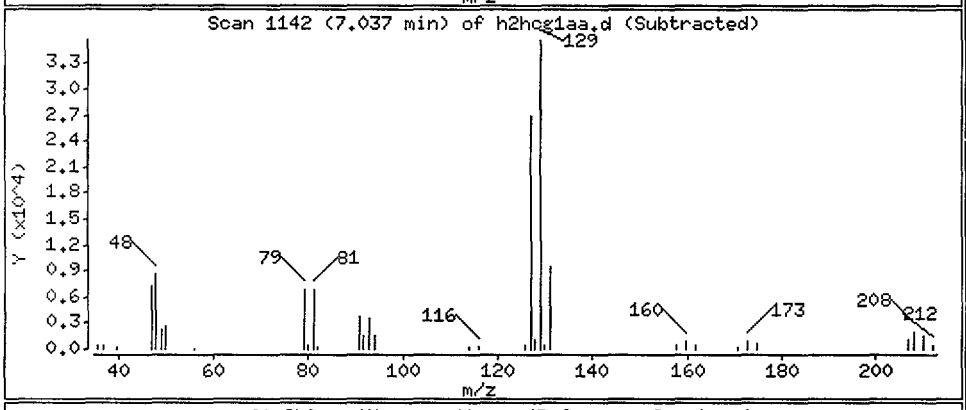
Column diameter: 0.18

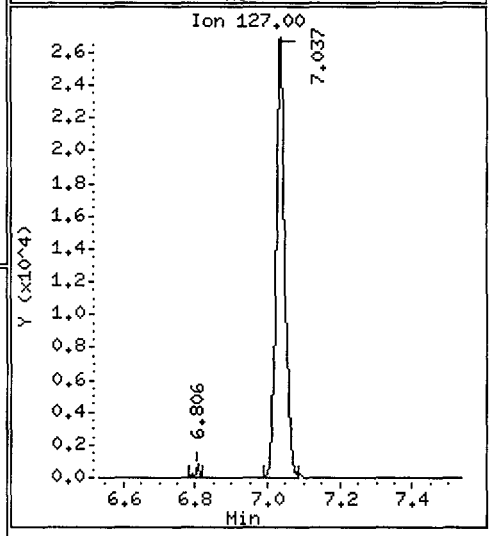
60 Chlorodibromomethane

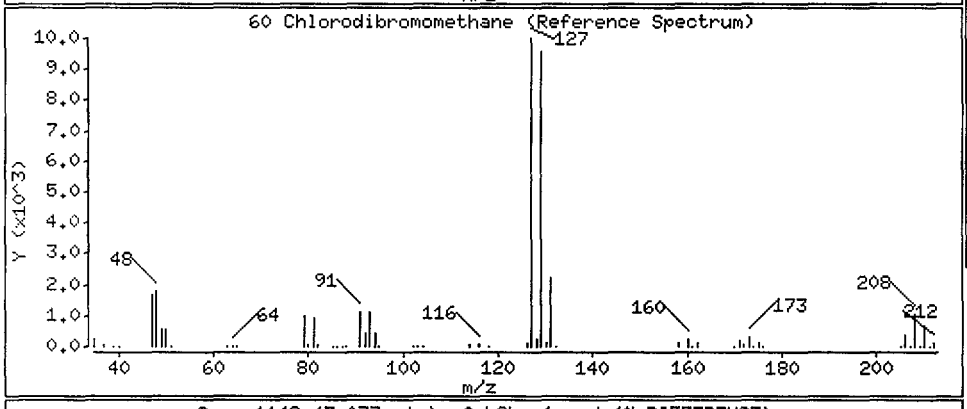
Concentration: 0.11577 ug

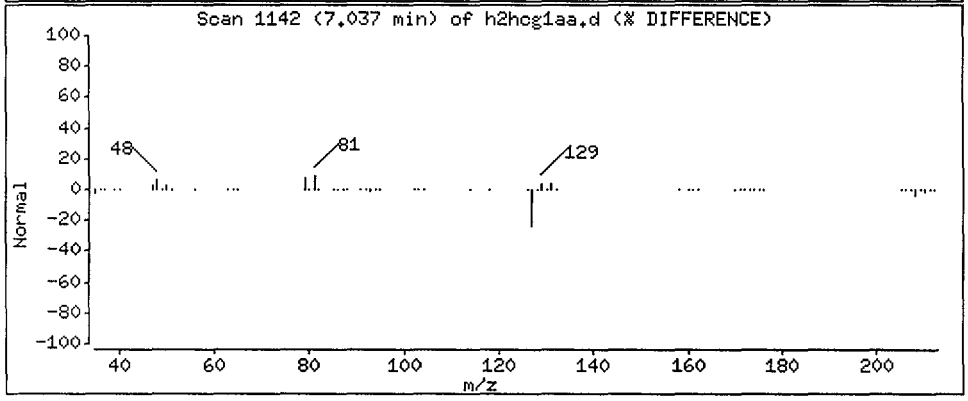












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

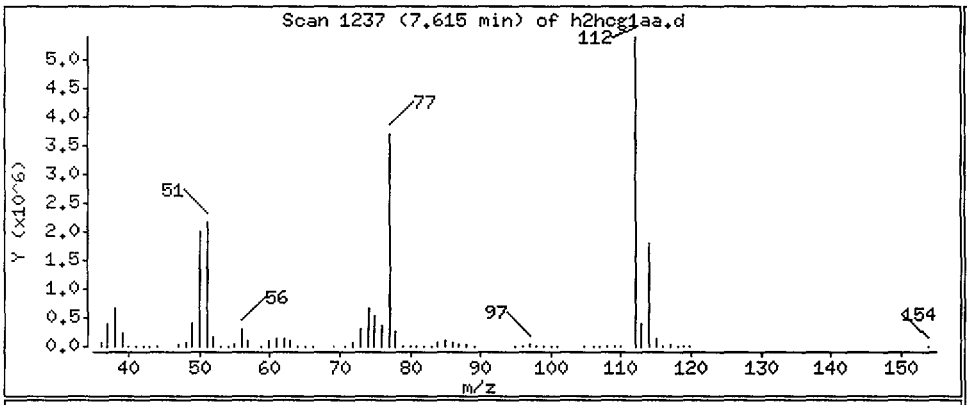
Operator: 22980

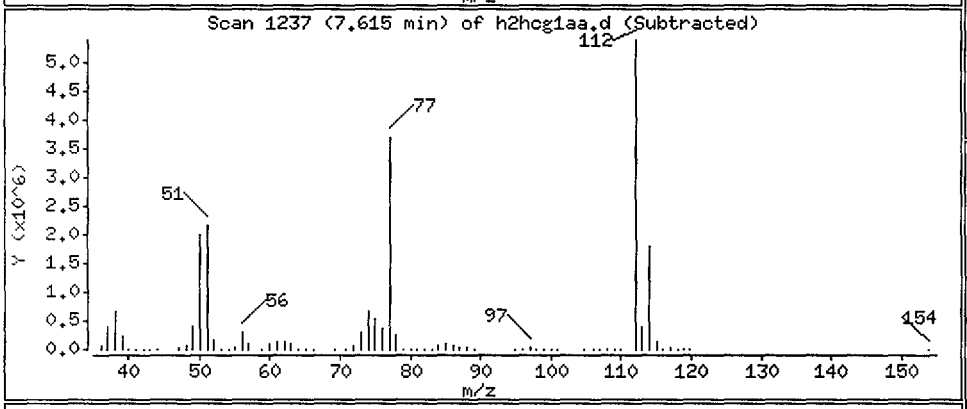
Column phase: J+W 624

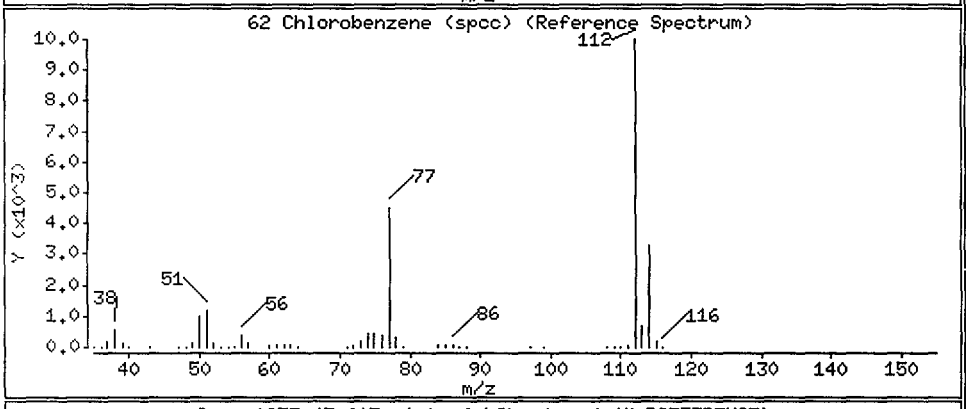
Column diameter: 0.18

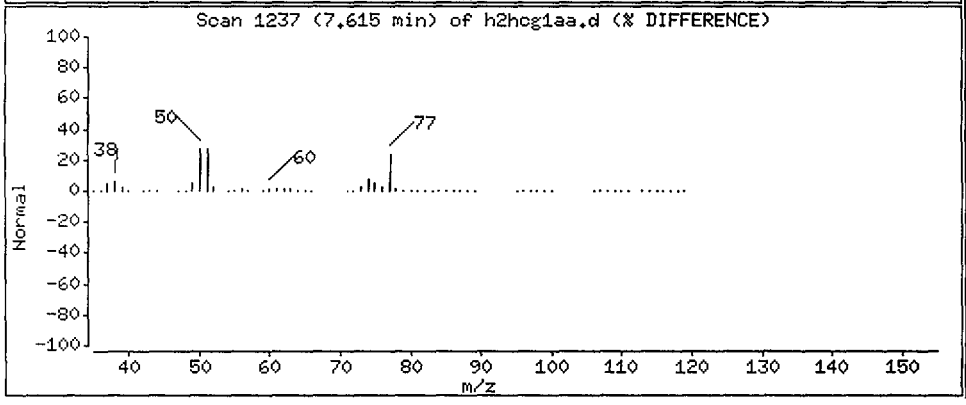
62 Chlorobenzene (spcc)

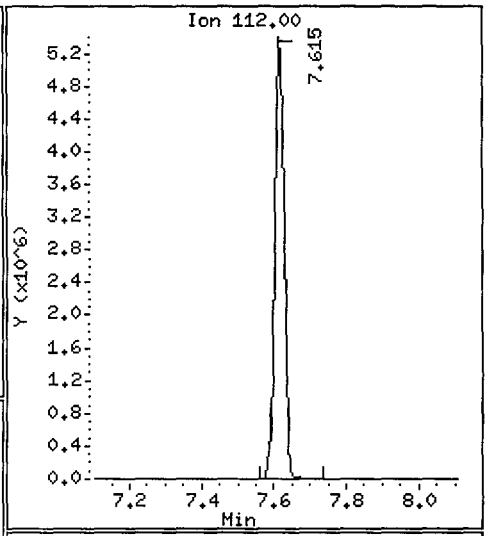
Concentration: 3.4067 ug

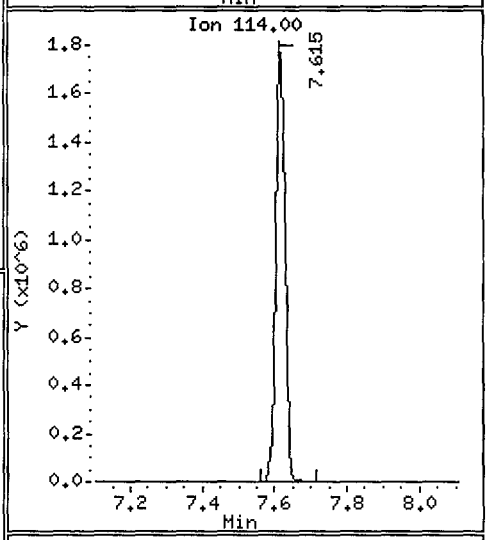


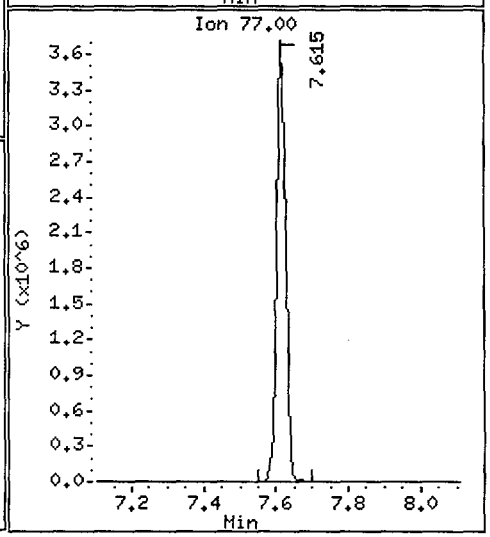












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

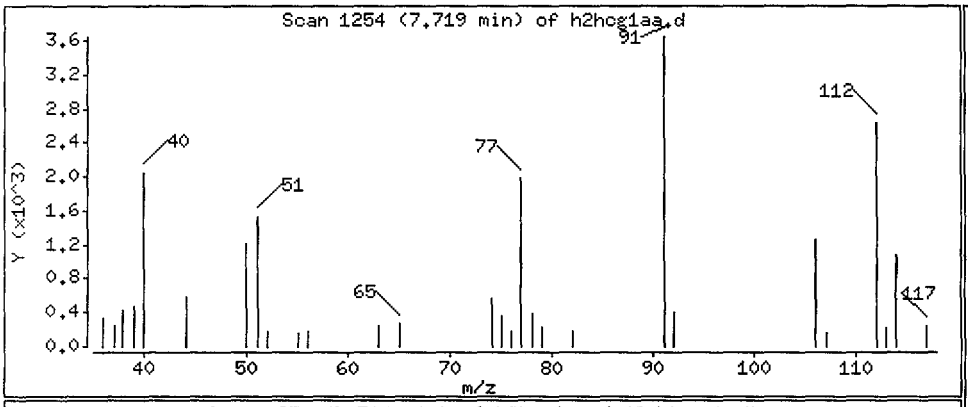
Operator: 22980

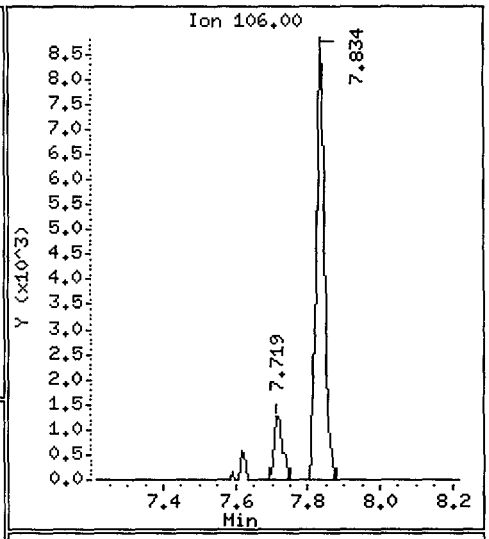
Column phase: J+W 624

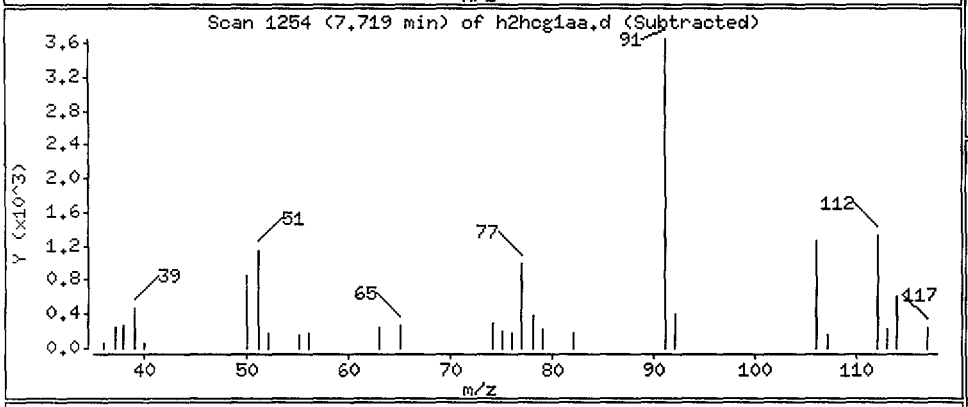
Column diameter: 0.18

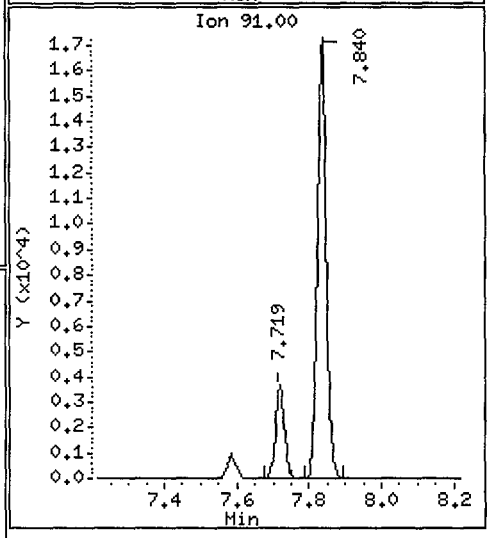
64 Ethylbenzene (ccc)

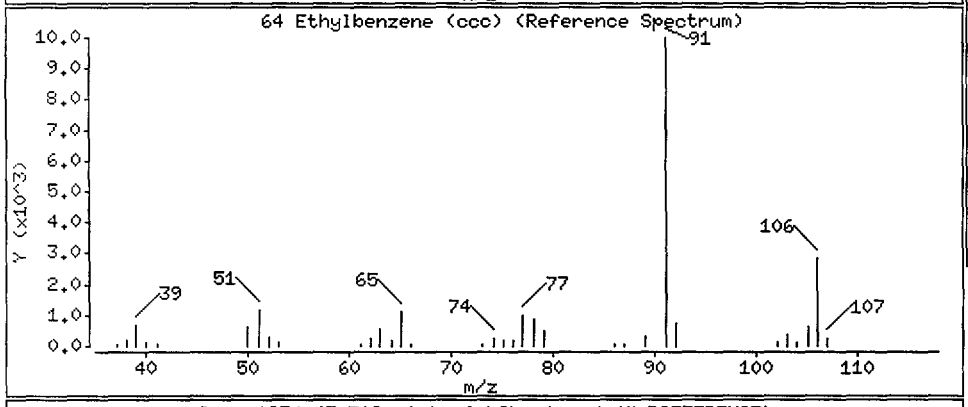
Concentration: 0.0011237 ug

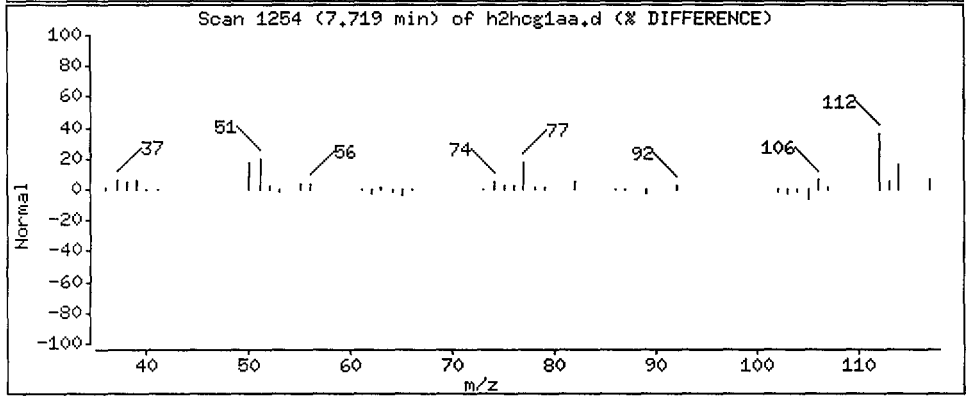












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

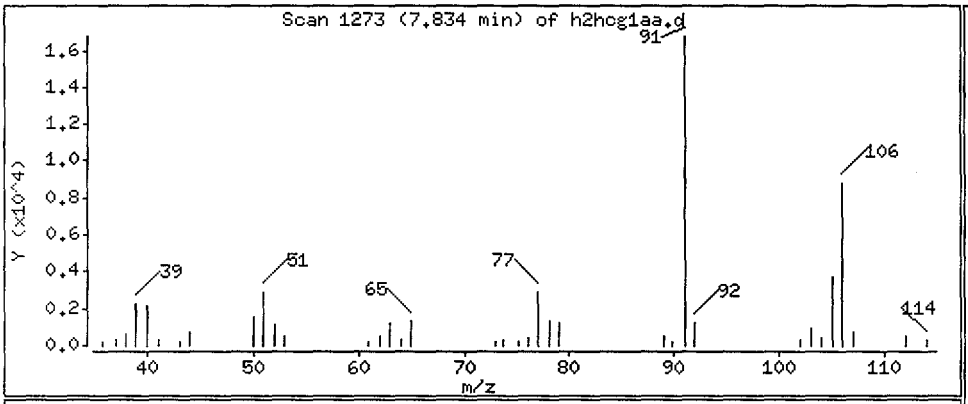
Operator: 22980

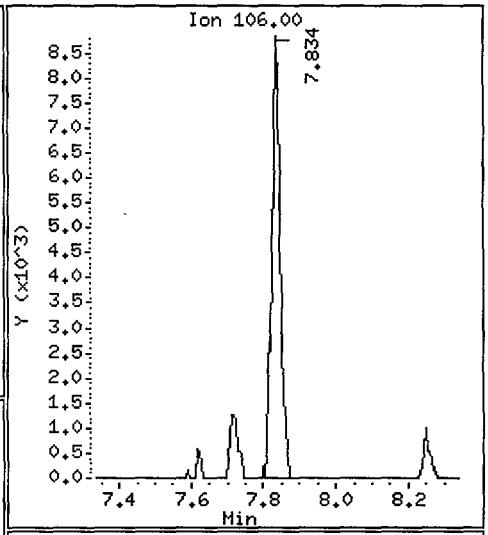
Column phase: J+W 624

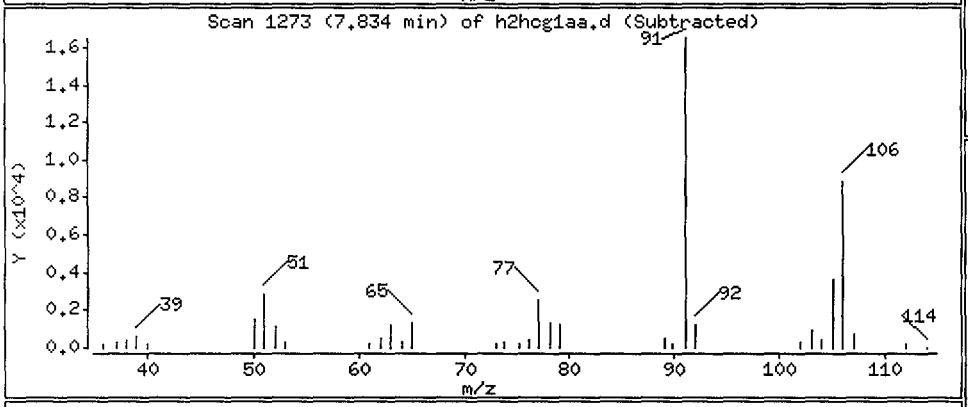
Column diameter: 0.18

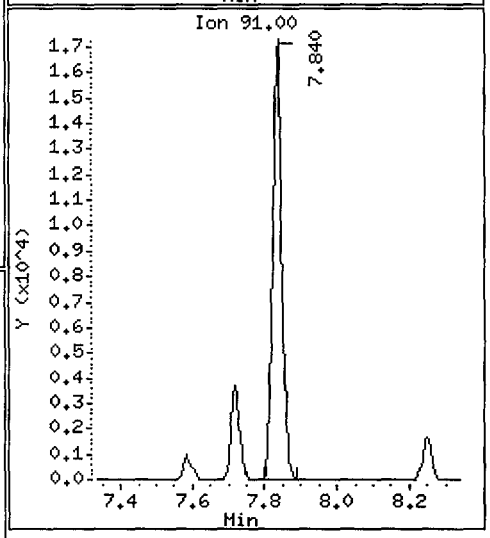
65 m&p-Xylene

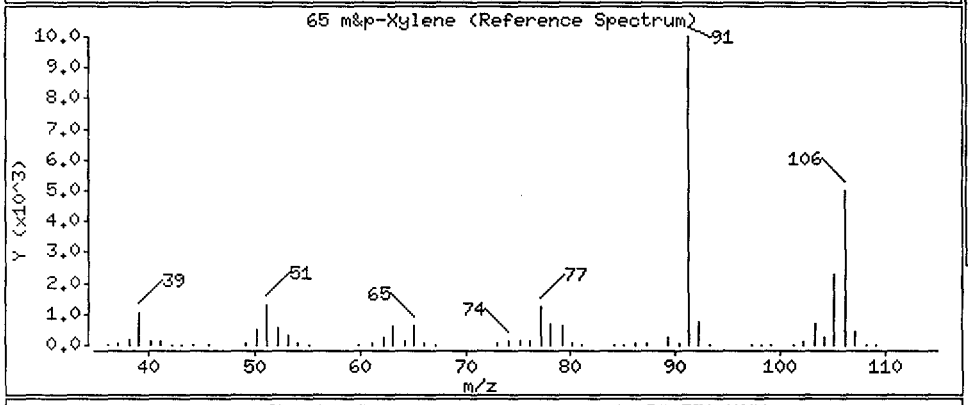
Concentration: 0.0065116 ug

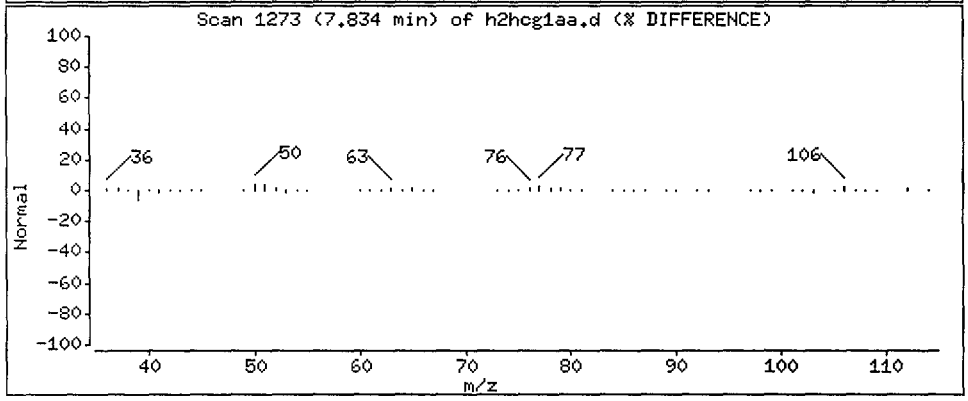












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

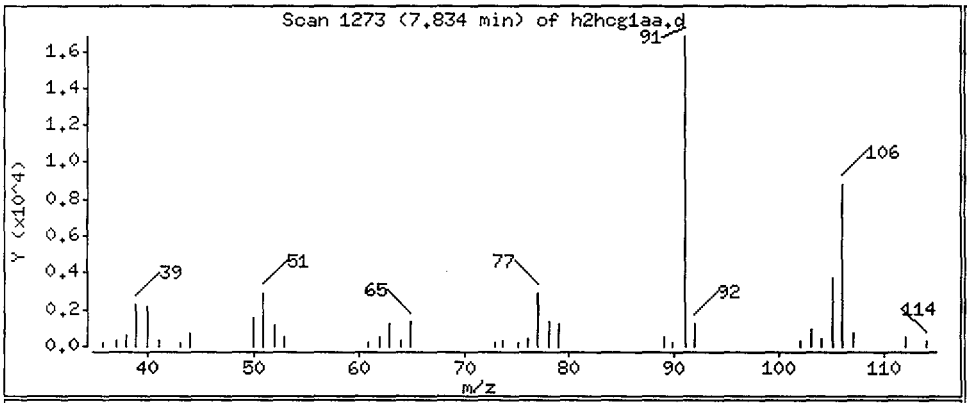
Operator: 22980

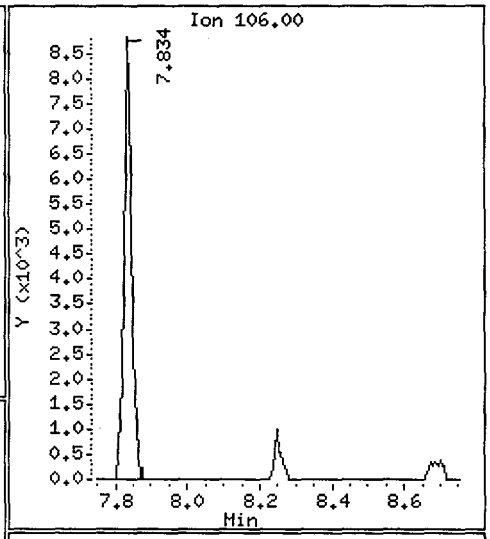
Column phase: J+W 624

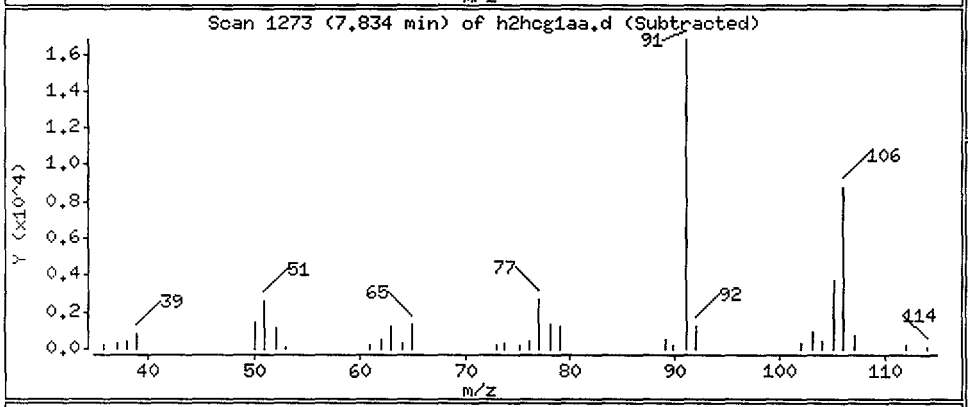
Column diameter: 0.18

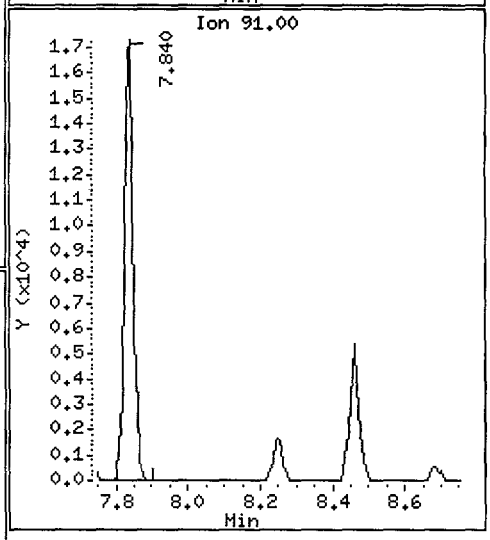
66 o-Xylene

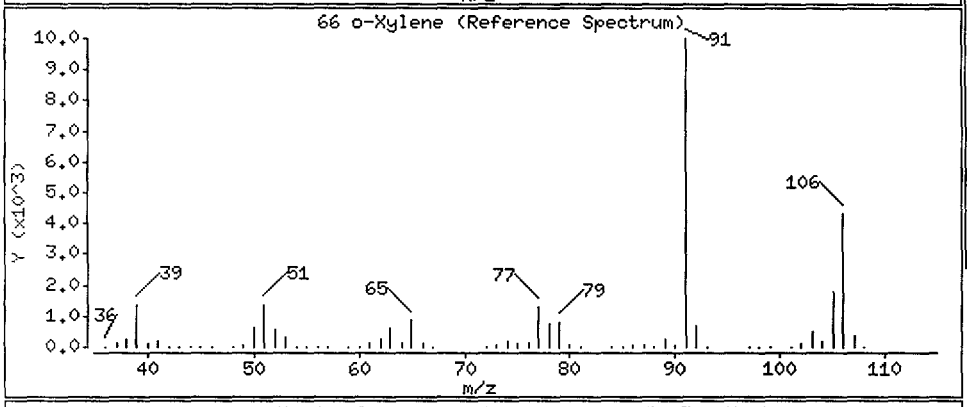
Concentration: 0.0075956 ug

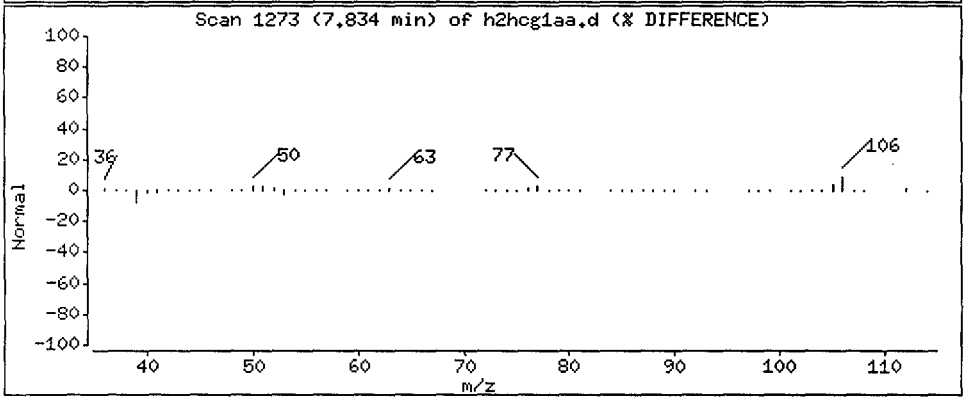












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

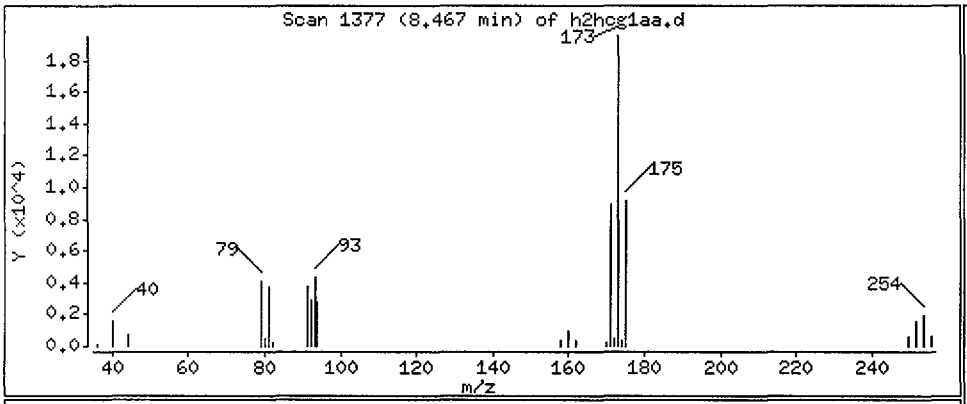
Operator: 22980

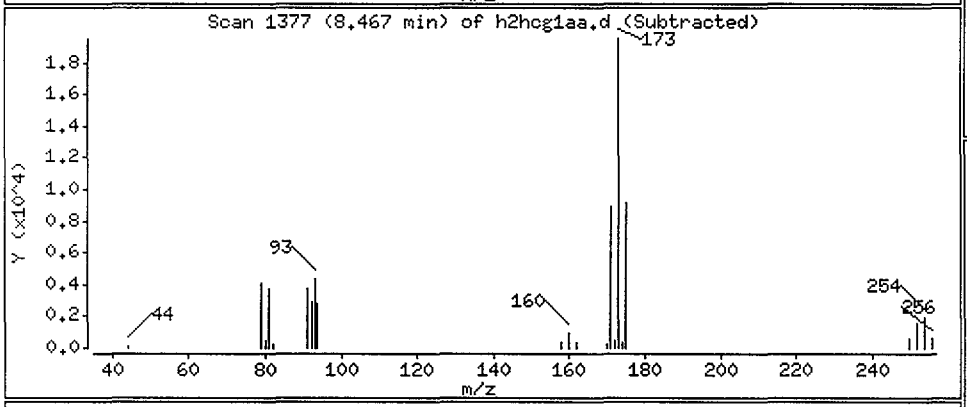
Column phase: J+W 624

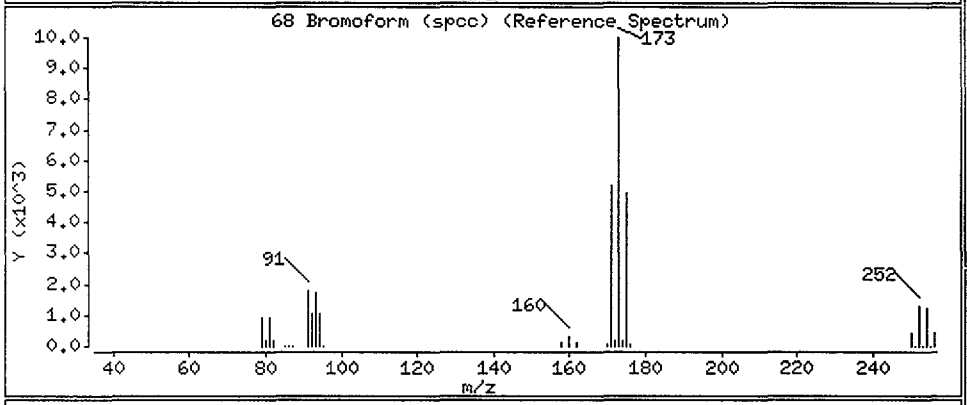
Column diameter: 0.18

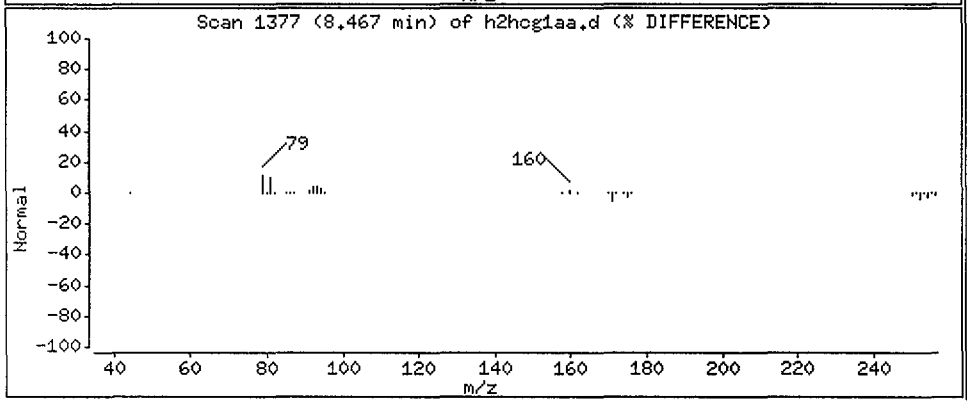
68 Bromoform (spcc)

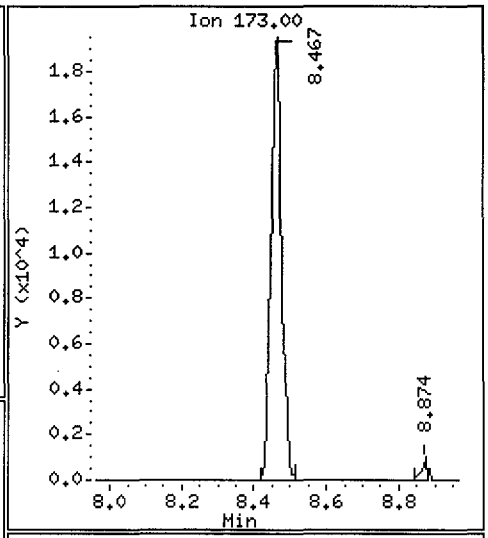
Concentration: 0.15658 ug

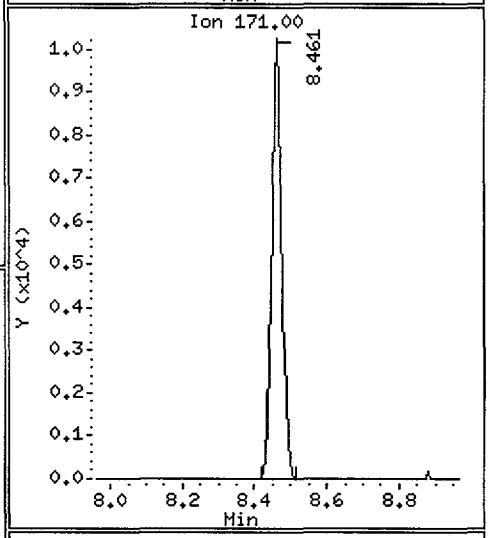


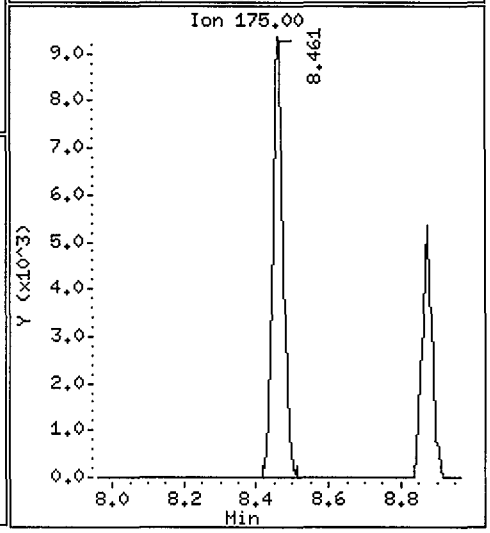












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

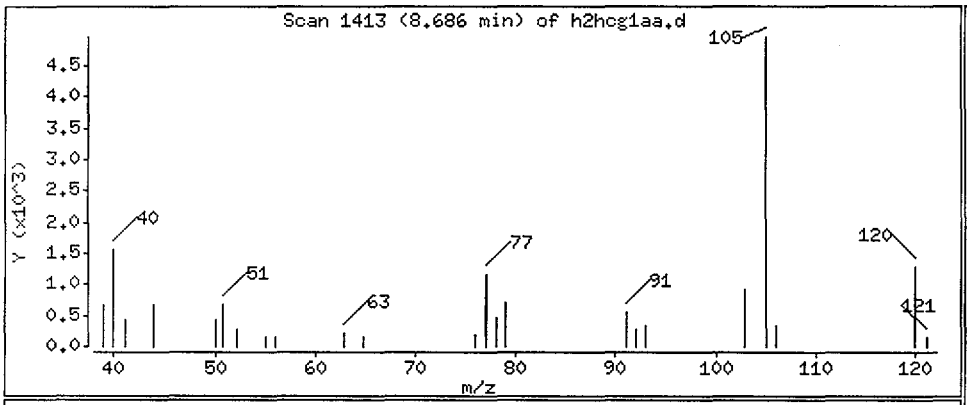
Operator: 22980

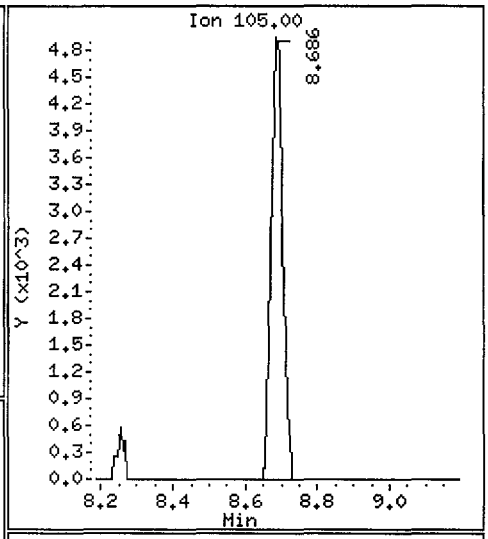
Column phase: J+W 624

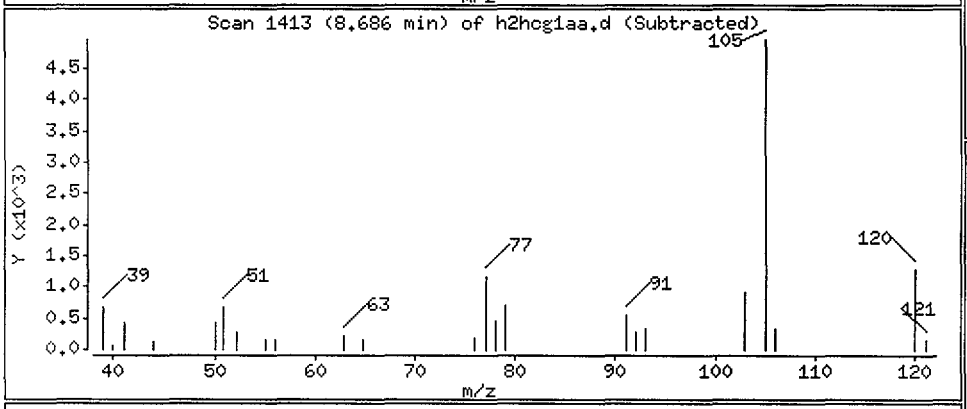
Column diameter: 0.18

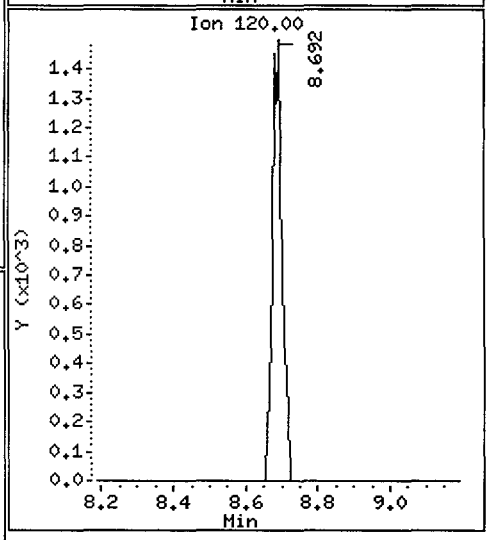
69 Isopropylbenzene

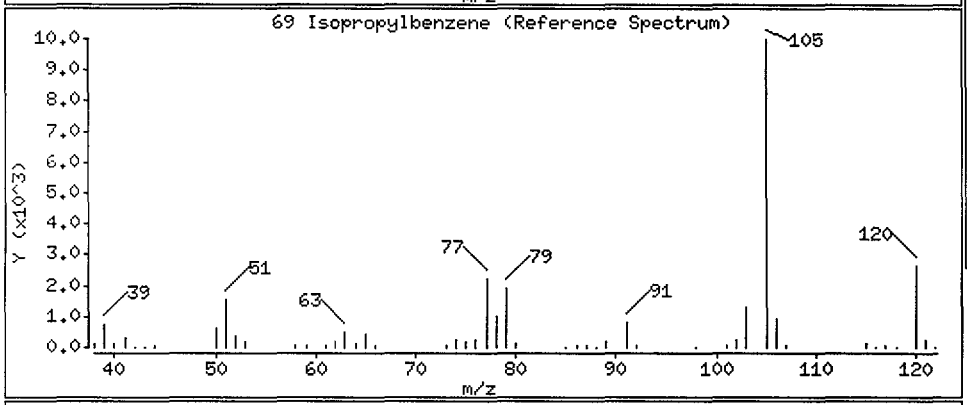
Concentration: 0.0018104 ug

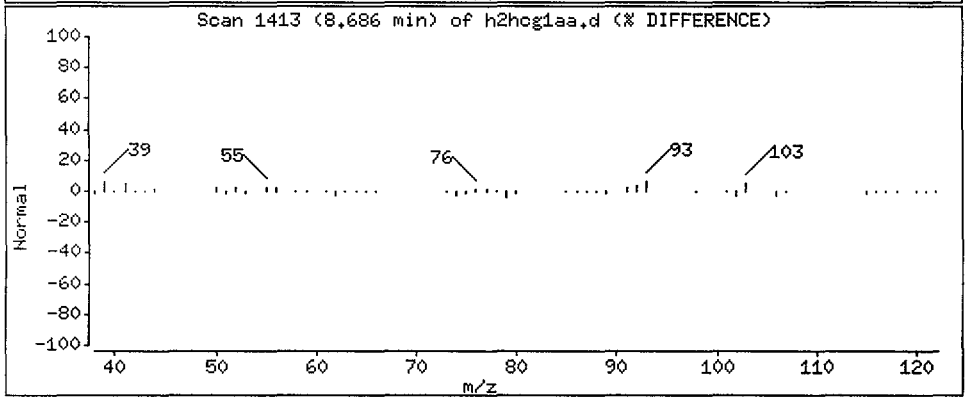












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

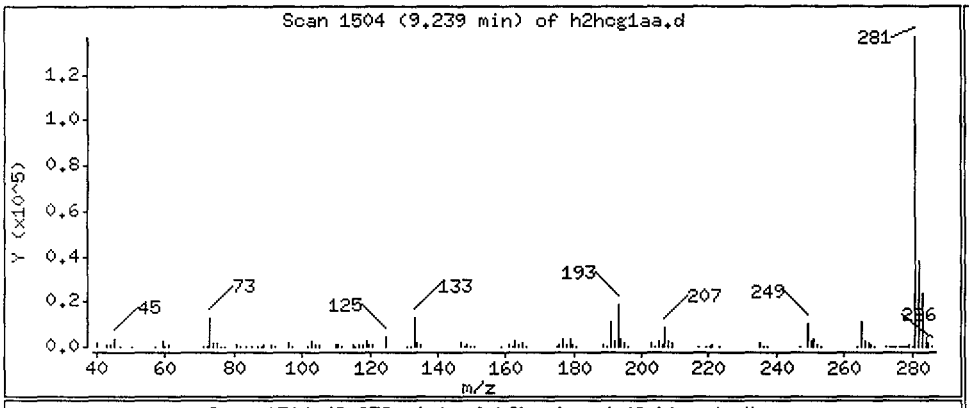
Operator: 22980

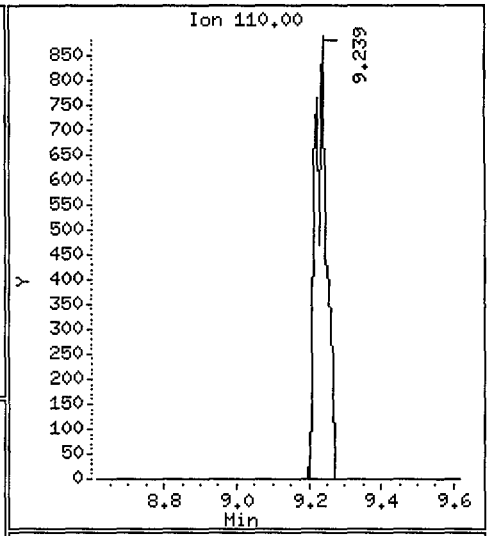
Column phase: J+W 624

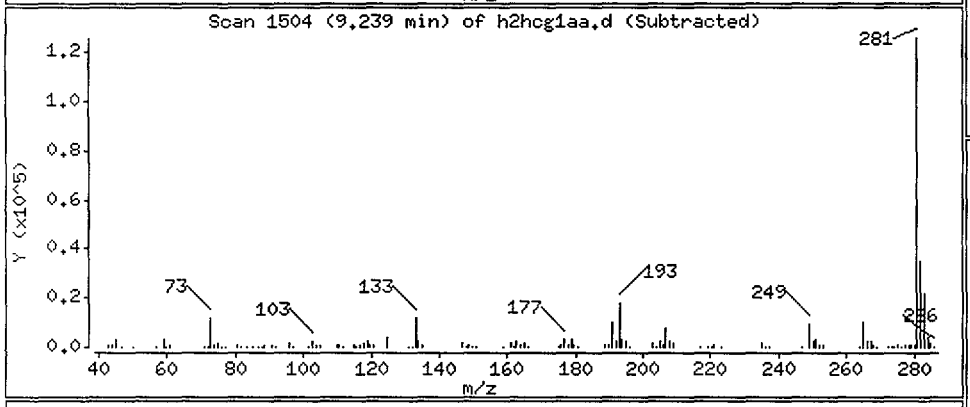
Column diameter: 0.18

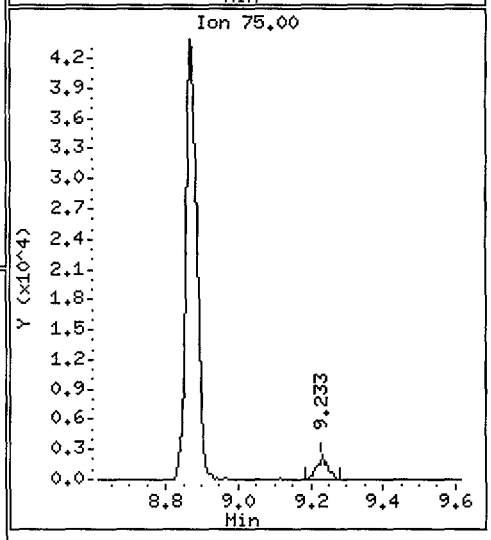
73 1,2,3-Trichloropropane

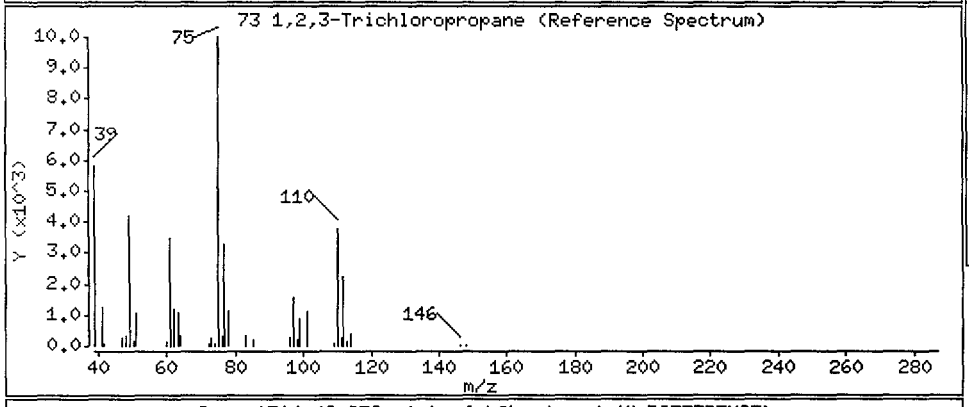
Concentration: 0.020407 ug

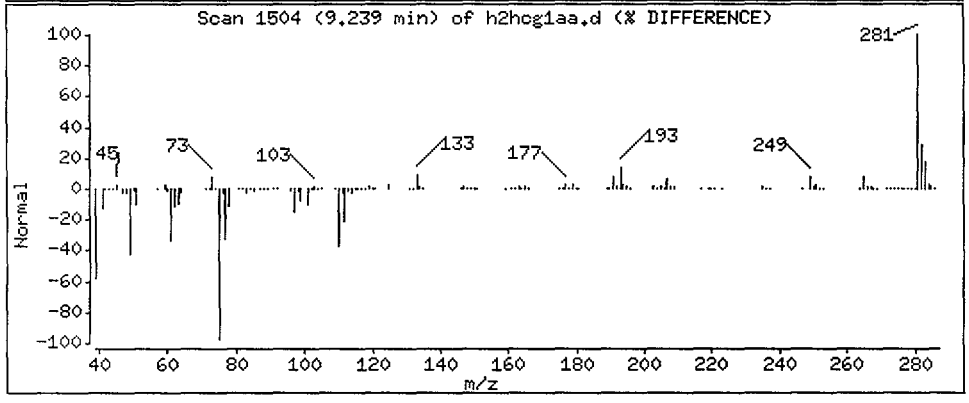












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

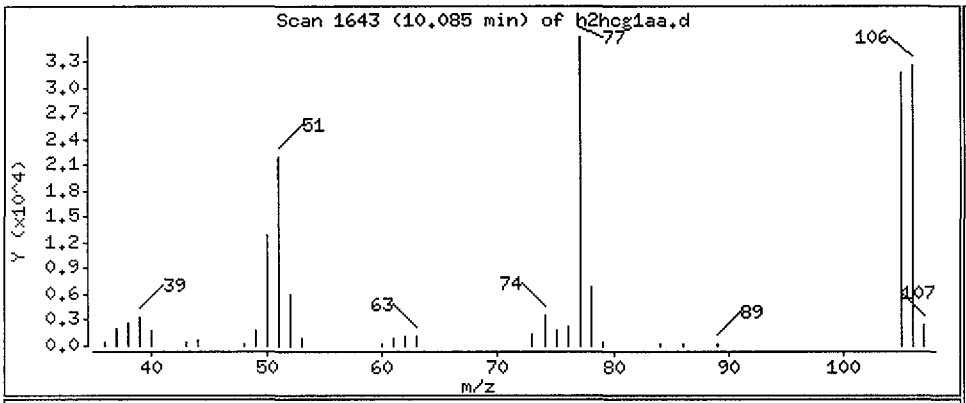
Operator: 22980

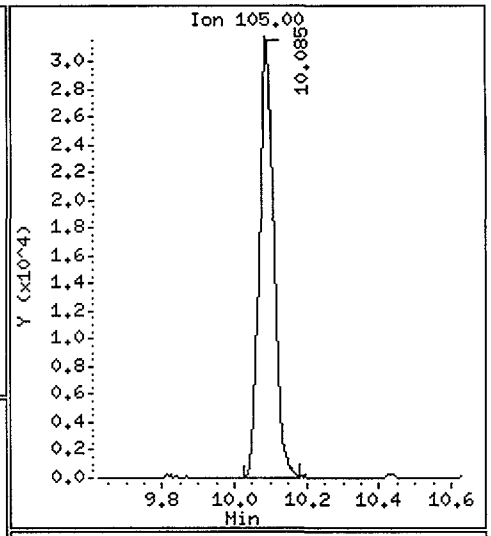
Column phase: J+W 624

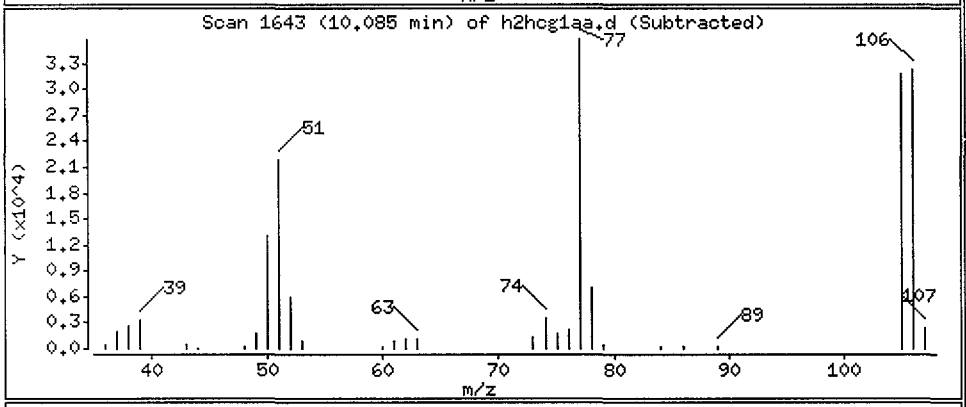
Column diameter: 0.18

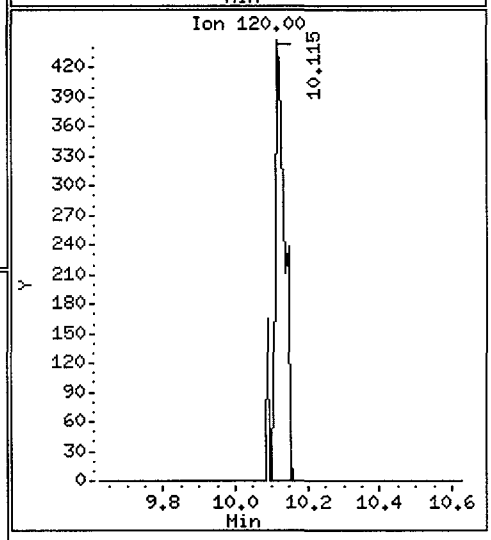
80 1,2,4-Trimethylbenzene

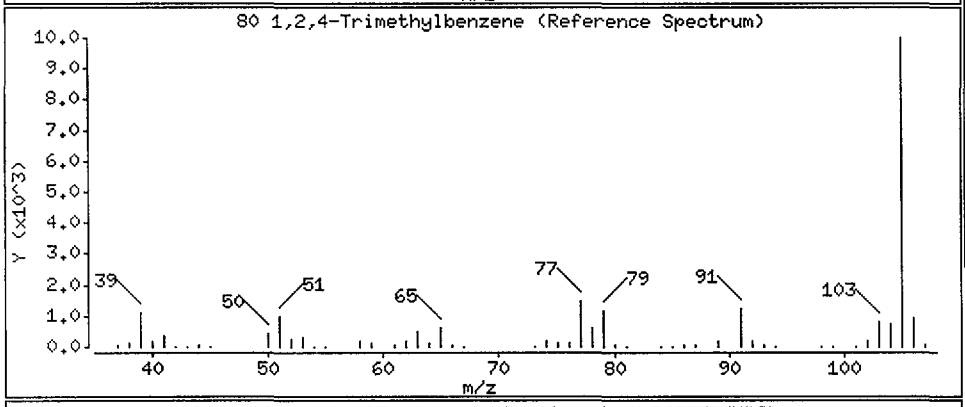
Concentration: 0.028004 ug

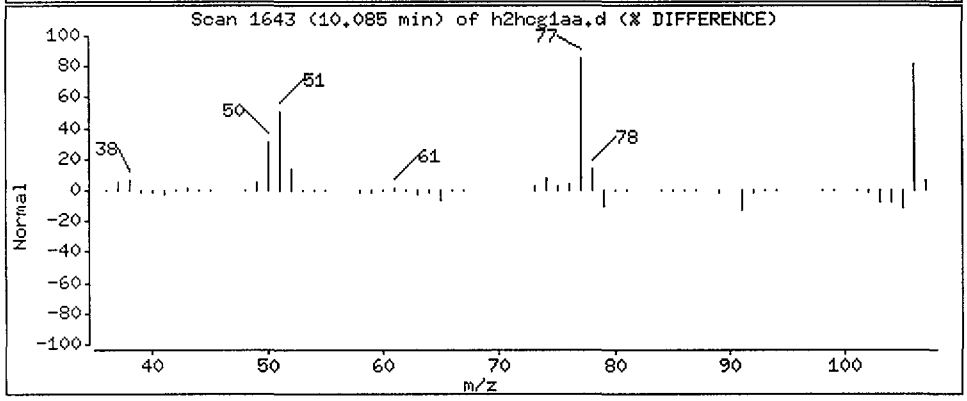












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

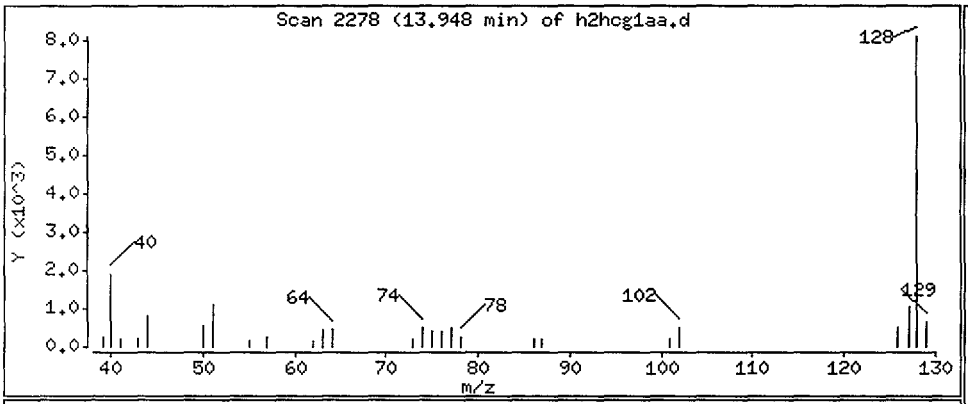
Operator: 22980

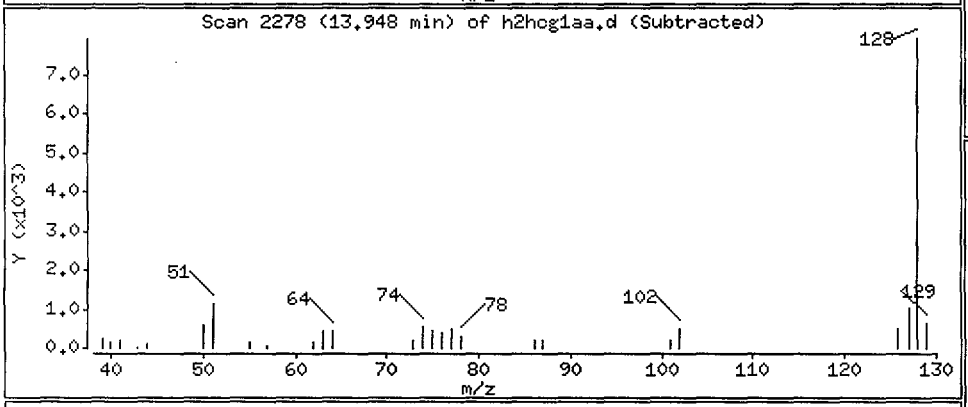
Column phase: J+W 624

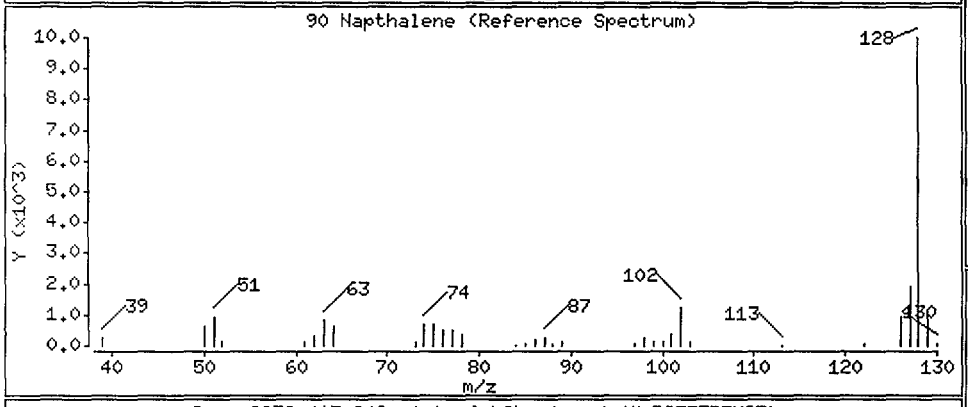
Column diameter: 0.18

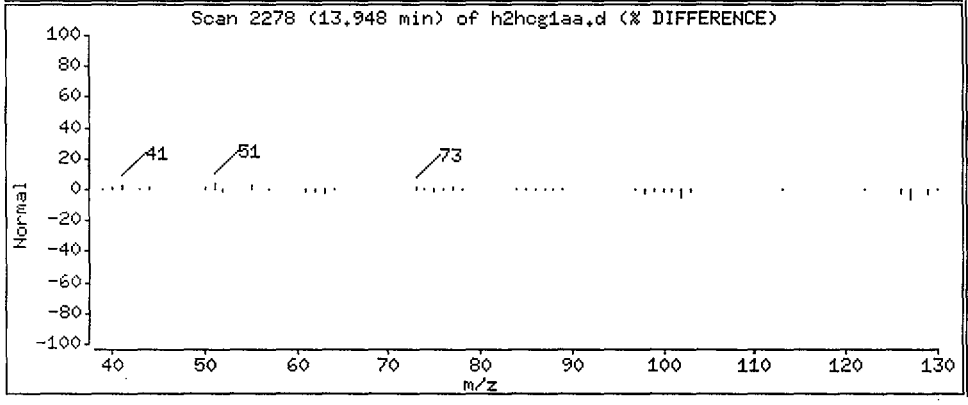
90 Napthalene

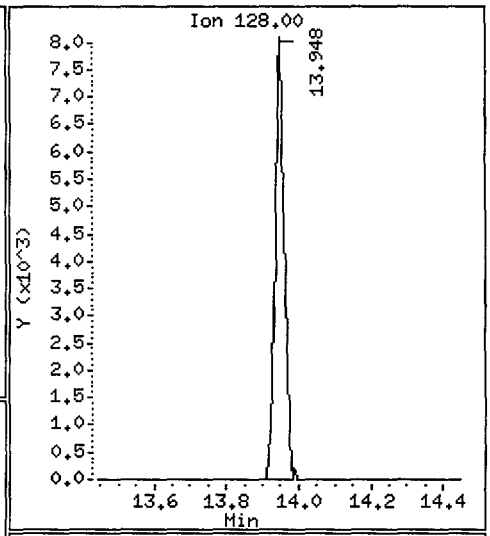
Concentration: 0.032958 ug

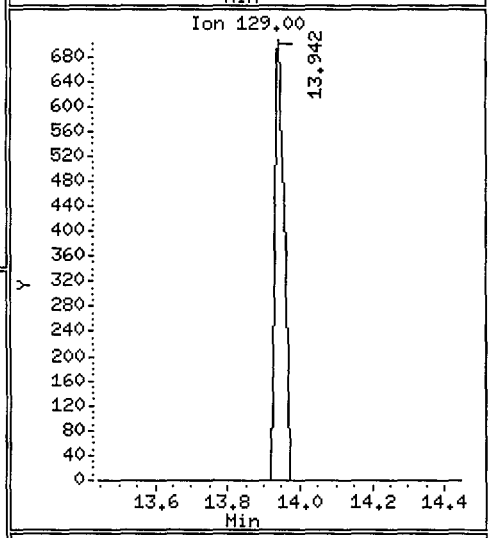


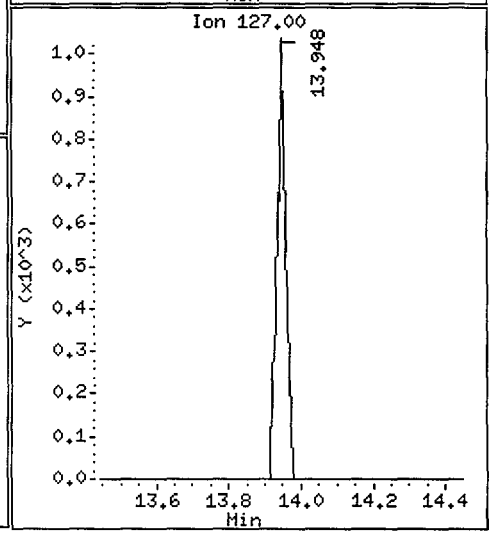












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcg1aa.d
Report Date: 18-Apr-2006 14:57

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X040706.b/h2hcg1aa.d
Lab Smp Id: H2HCG1AA Client Smp ID: G-3091-R3-VOST PAIR
Inj Date : 07-APR-2006 14:43
Operator : 22980 Inst ID: mx.i
Smp Info : H2HCG1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 18-Apr-2006 14:54 tajh Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 3 1,4 Dichlorobenzene-d4	10.742	588978	10.000

	CONCENTRATIONS			QUANT			
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug)	QUAL	LIBRARY	LIB ENTRY	CPND #
7H-Dibenzo[b,g]carbazole, 7-methyl-					CAS #: 3557-49-1		
9.239	383976	6.51936066	0.16298	59	NIST02.1	106923	3
Benzaldehyde					CAS #: 100-52-7		
10.085	175261	2.97567991	0.074392	97	NIST02.1	4944	3
11H-Dibenzo[b,e][1,4]diazepin-11-one, 5-[illegible]-					CAS #: 13450-73-2		
12.445	75800	1.28697507	0.032174	46	NIST02.1	98616	3

4/19/06

Data File: /var/chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

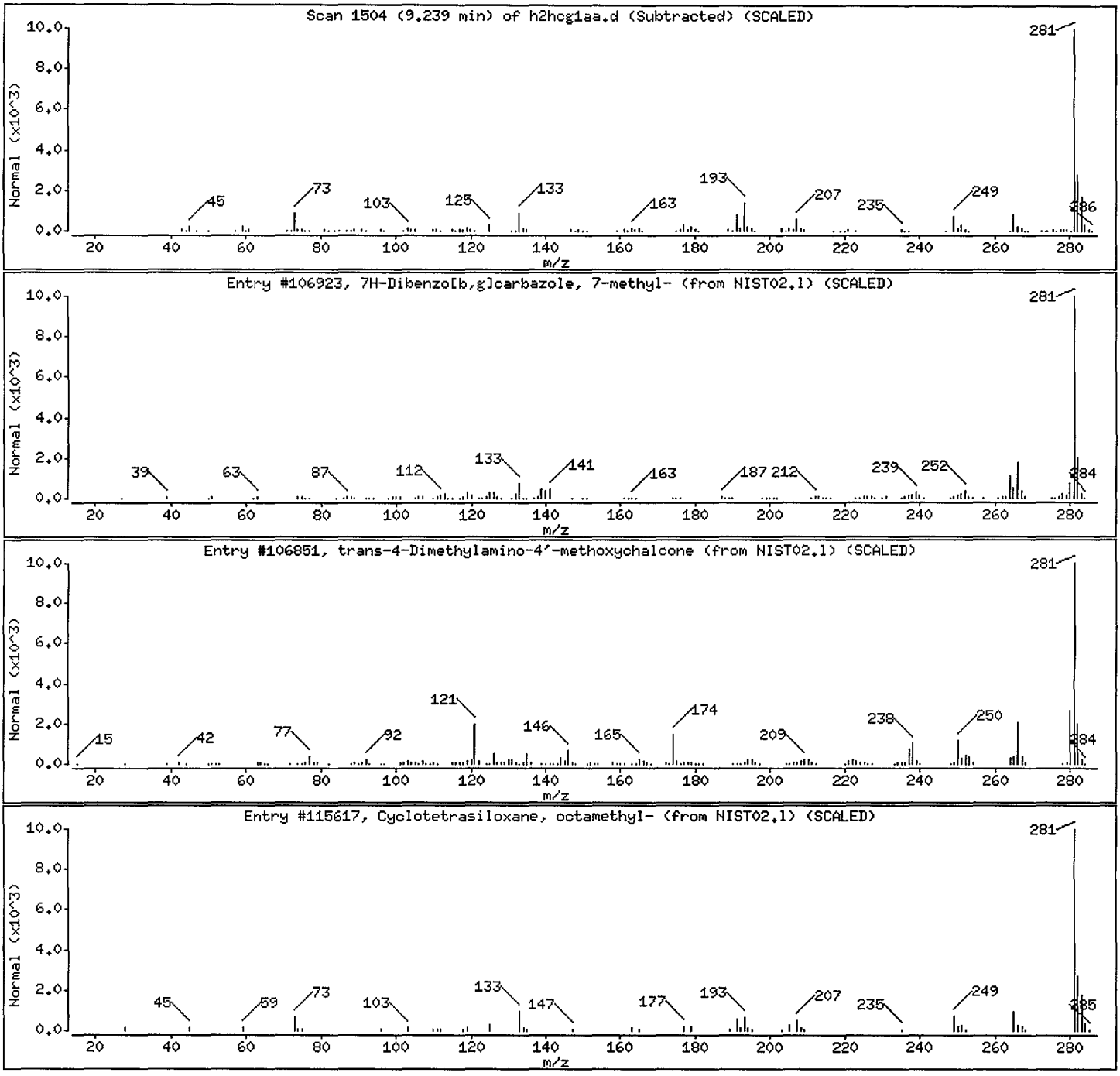
Sample Info: H2HCG1AA,1,0,,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
7H-Dibenzo[b,g]carbazole, 7-methyl-	3557-49-1	NIST02.l	106923	59	C21H15N	281
trans-4-Dimethylamino-4'-methoxychalcone	52119-37-6	NIST02.l	106851	50	C18H19NO2	281
Cyclotetrasiloxane, octamethyl-	556-67-2	NIST02.l	115617	49	C8H24O4Si4	296



Data File: /var/chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

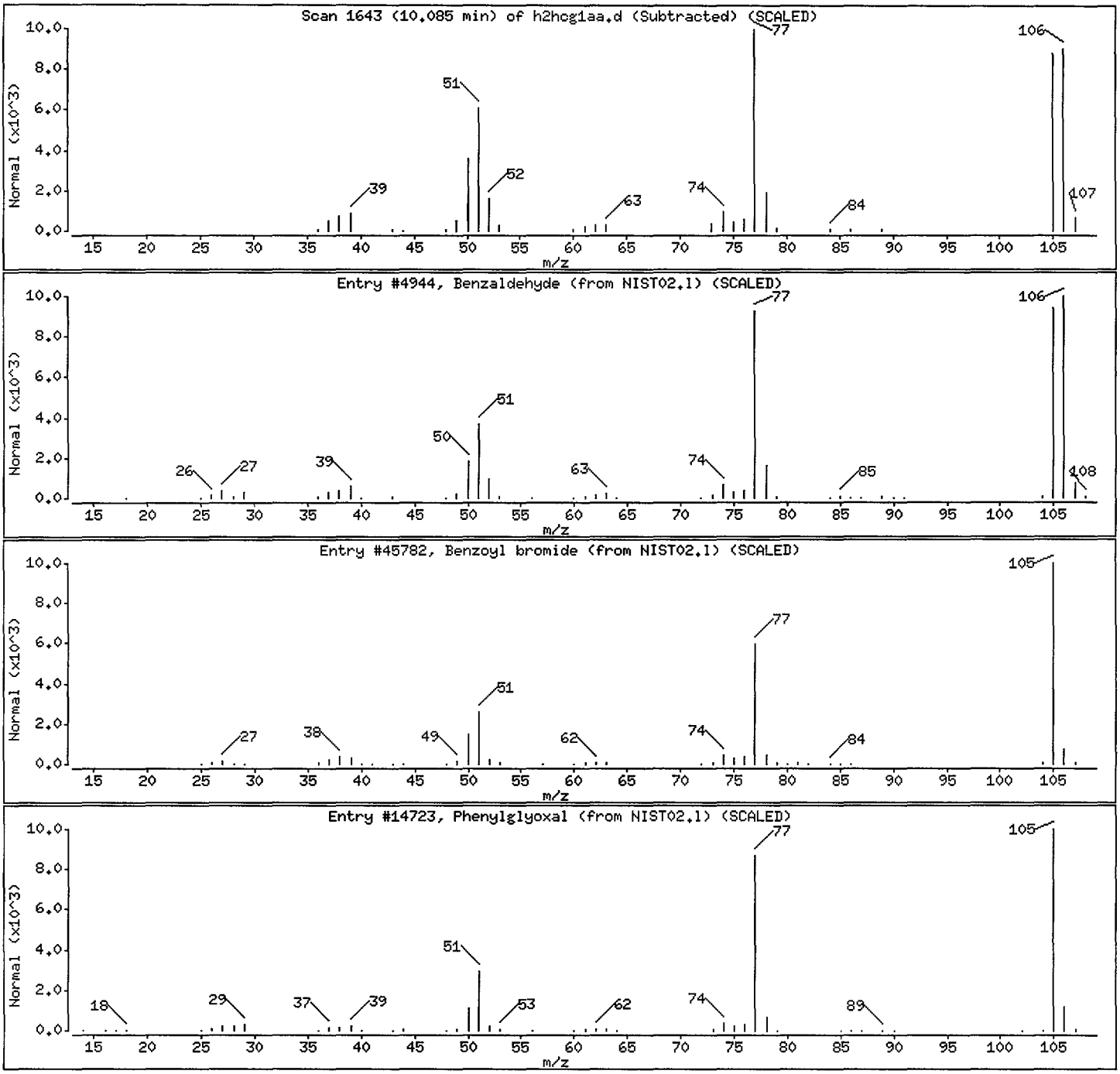
Sample Info: H2HCG1AA,1,0,,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzaldehyde	100-52-7	NIST02.l	4944	97	C7H6O	106
Benzoyl bromide	618-32-6	NIST02.l	45782	50	C7H5BrO	184
Phenylglyoxal	1074-12-0	NIST02.l	14723	50	C8H6O2	134



Data File: /var/chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

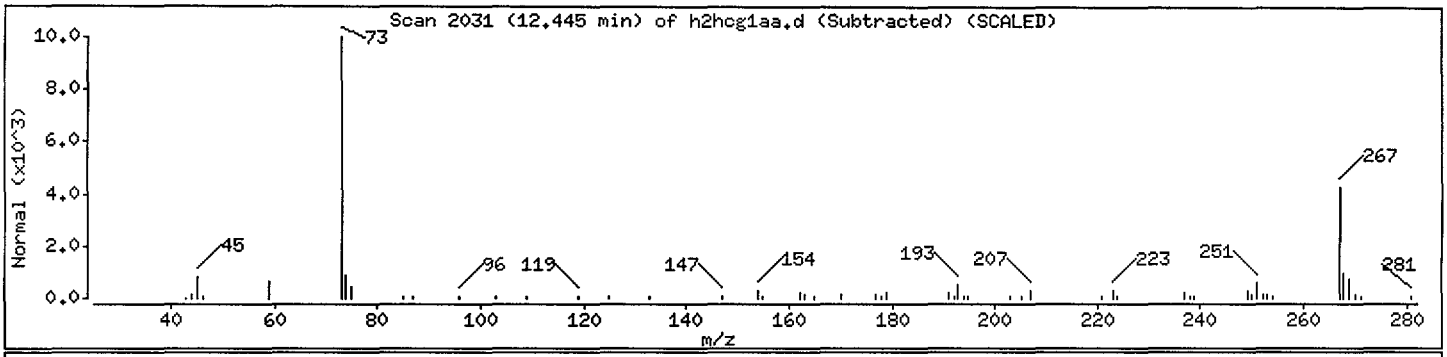
Sample Info: H2HCG1AA,1,0,,,

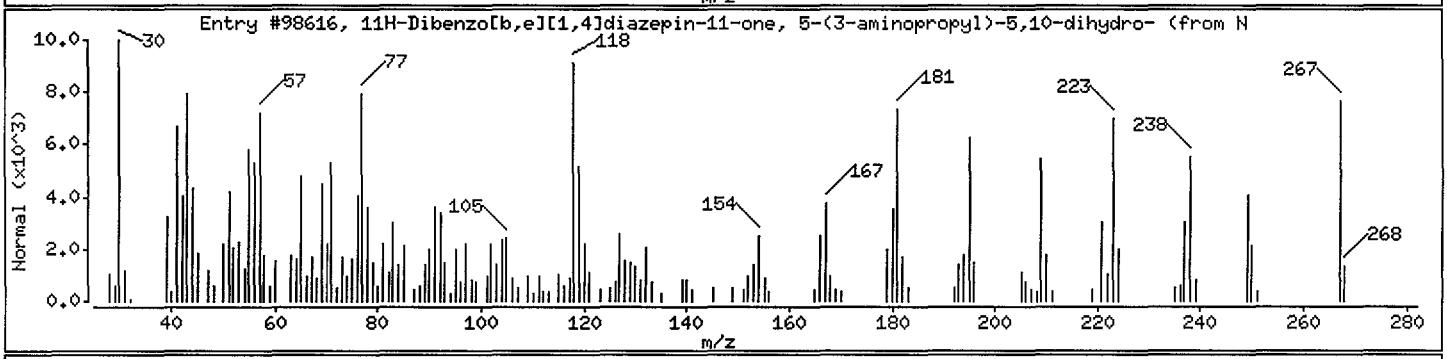
Operator: 22980

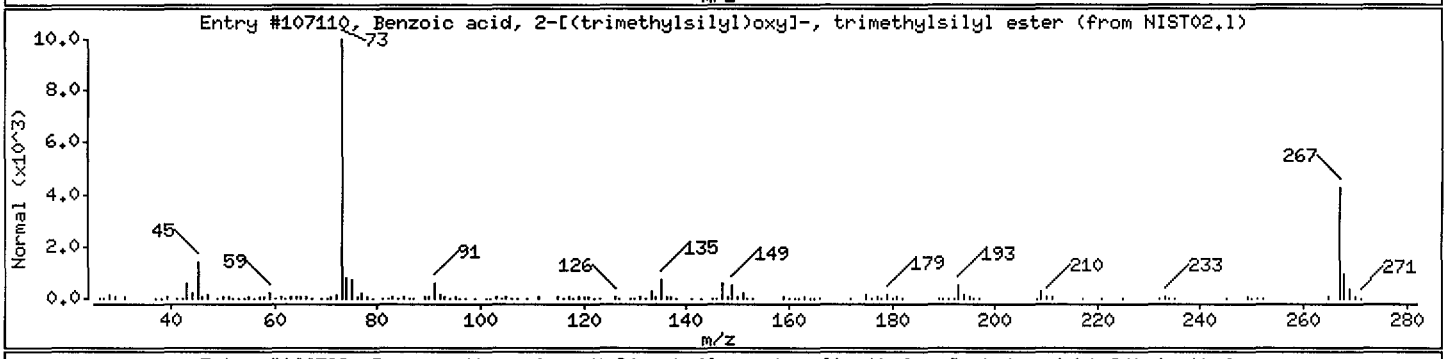
Column phase: J+W 624

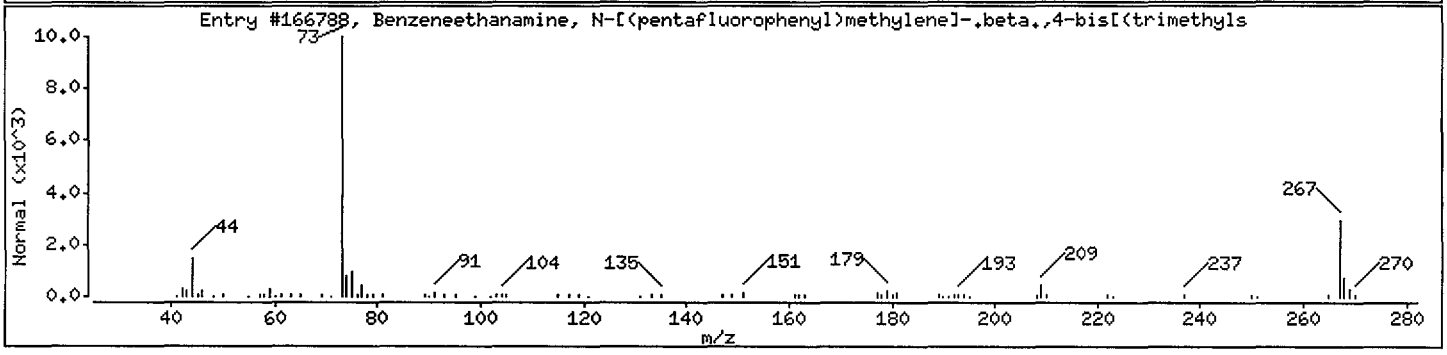
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
11H-Dibenzo[b,e][1,4]diazepin-11-one, 5-	13450-73-2	NIST02.l	98616	46	C16H17N3O	267
Benzoic acid, 2-[(trimethylsilyl)oxy]-,	3789-85-3	NIST02.l	107110	40	C13H22O3Si2	282
Benzeneethanamine, N-[(pentafluorophenyl	55429-85-1	NIST02.l	166788	37	C21H26F5NO2Si	475









STL Knoxville - ACS

Client Sample ID: G-3091-R3-VOST PAIR #2 TENAX

GC/MS Volatiles

Lot-Sample #...:	H6D030169-025	**Work Order #...:**	H2HCG2AA	**Matrix.....:**	AIR
Date Sampled...:	03/30/06	**Date Received..:**	04/02/06		
Prep Date.....:	04/07/06	**Analysis Date..:**	04/07/06		
Prep Batch #...:	6097054				
Dilution Factor:	1	**Method.....:**	SW846 VOST		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chlorobenzene	**3.1**	**0.010**	**ug**	**0.0013**
Tetrachloroethene	**2.2**	**0.010**	**ug**	**0.0021**

Data File: /var/chem/gcms/mx.i/X050306.b/h2hcg1aa.d
Report Date: 10-May-2006 12:22

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X050306.b/h2hcg1aa.d
Lab Smp Id: H2HCG1AA Client Smp ID: G-3091-R3-VOST PAIR
Inj Date : 07-APR-2006 14:43
Operator : 22980 Inst ID: mx.i
Smp Info : H2HCG1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X050306.b/clbz.m
Meth Date : 10-May-2006 12:21 wilesd Quant Type: ISTD
Cal Date : 03-MAY-2006 15:12 Cal File: tclp10.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: clbz.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

VV 051006

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	4.853	4.851	(1.000)	1165097	10.0000	
* 2 Chlorobenzene-d5	119	7.585	7.582	(1.000)	229388	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.742	10.746	(1.000)	247441	10.0000	
57 Tetrachloroethene	164	6.824	6.816	(0.900)	2786980	86.1317	2.1533(A)
62 Chlorobenzene (spcc)	112	7.615	7.607	(1.004)	9399276	123.862	3.0966(A)

mw 5.10.06

QC Flag Legend

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

Data File: /var/chem/gcms/mx.i/X050306.b/h2hcg1aa.d
Report Date: 10-May-2006 12:35

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: h2hcg1aa.d
Lab Smp Id: H2HCG1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Calibration Date: 07-APR-2006
Calibration Time: 09:16
Client Smp ID: G-3091-R3-VOST PAIR
Level: LOW
Sample Type: AIR
Method File: /var/chem/gcms/mx.i/X050306.b/clbz.m
Misc Info: X040706,8260B_LM,focus.sub

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1149191	574596	2298382	1165097	1.38
2 Chlorobenzene-d5	214194	107097	428388	229388	7.09
3 1,4 Dichlorobenze	242601	121300	485202	247441	2.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	0.05
2 Chlorobenzene-d5	7.58	7.08	8.08	7.58	0.03
3 1,4 Dichlorobenze	10.75	10.25	11.25	10.74	-0.03

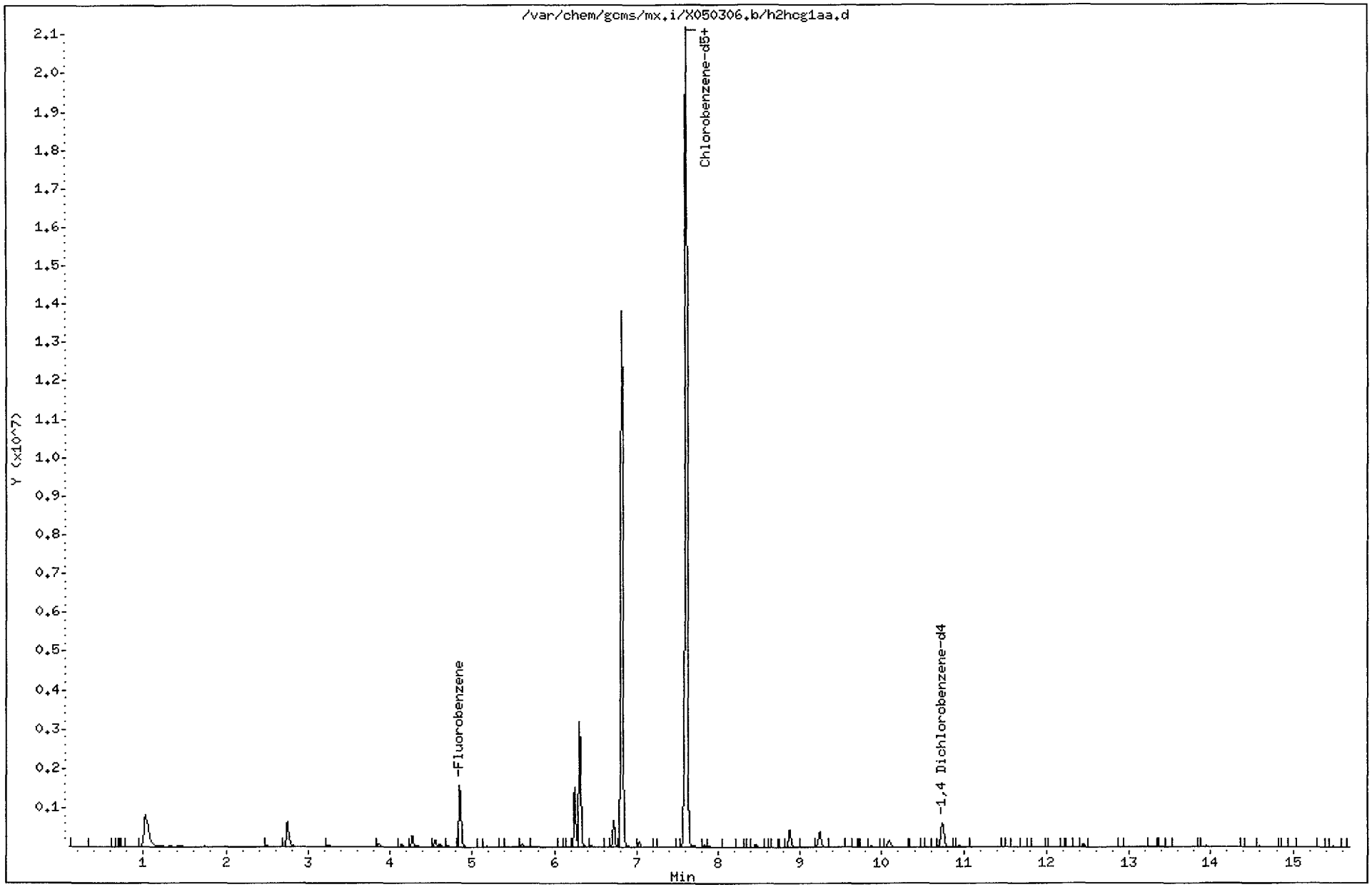
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /var/chem/gcms/mx.i/X050306.b/h2hcg1aa.d
Date : 07-APR-2006 14:43
Client ID: G-3091-R3-VOST PAIR
Sample Info: H2HCG1AA,1,0,,,

Instrument: mx.i

Operator: 22980
Column diameter: 0.18

Column phase: J+W 624



Data File: /var/chem/gcms/mx.i/X050306.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

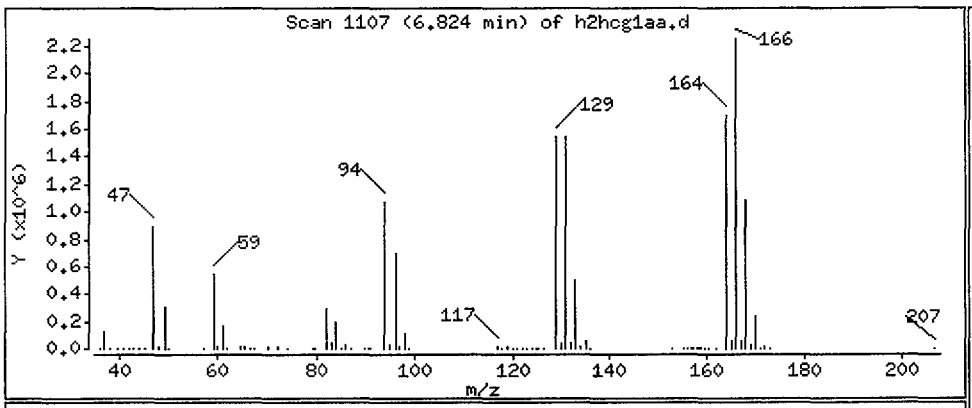
Operator: 22980

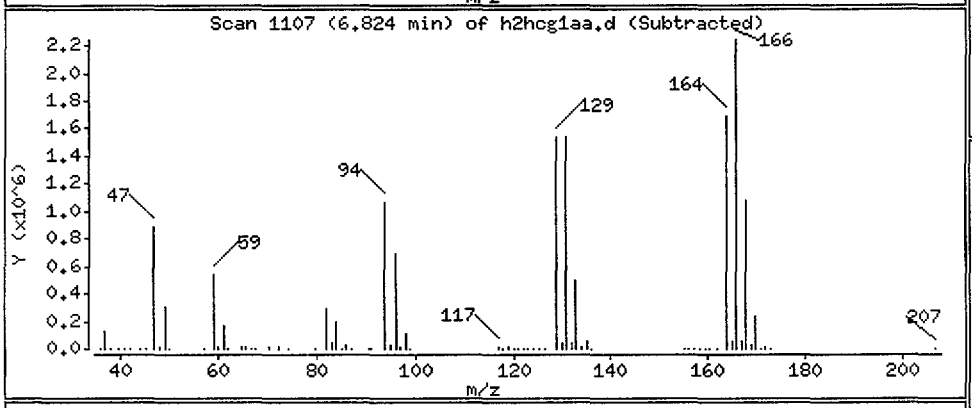
Column phase: J+W 624

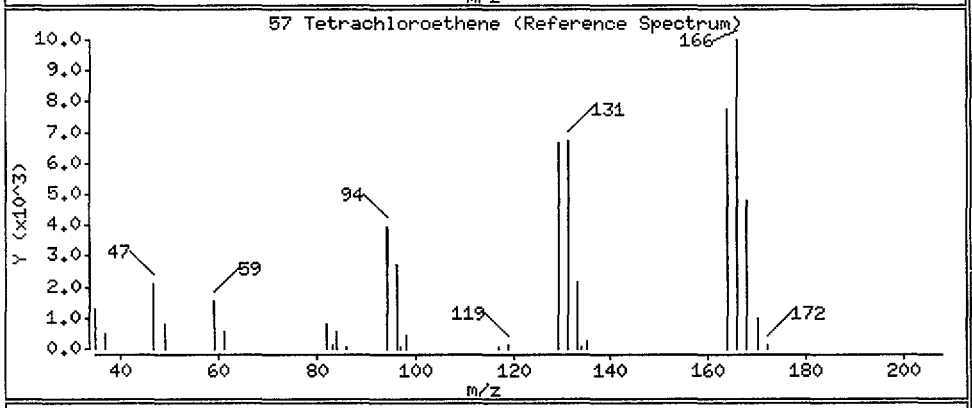
Column diameter: 0.18

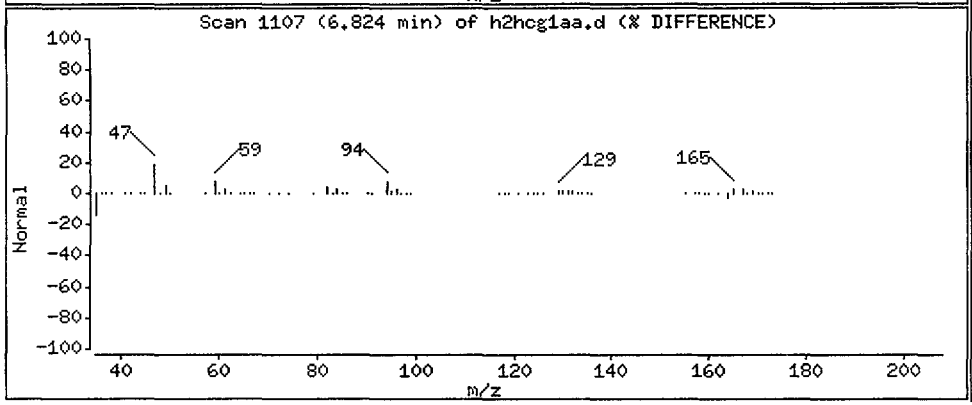
57 Tetrachloroethene

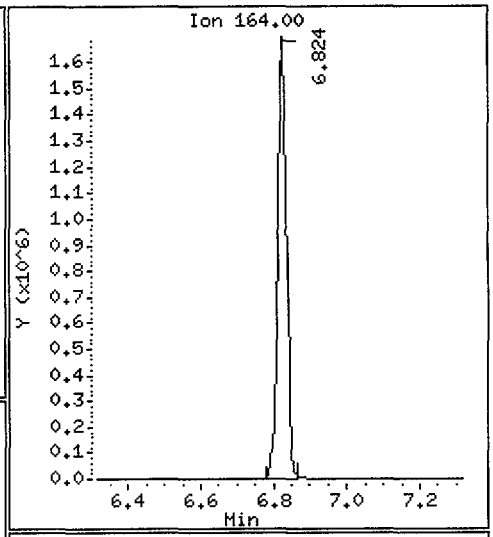
Concentration: 2.1533 ug

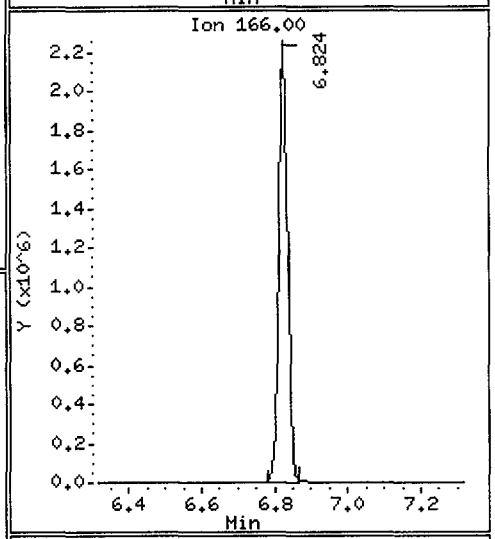


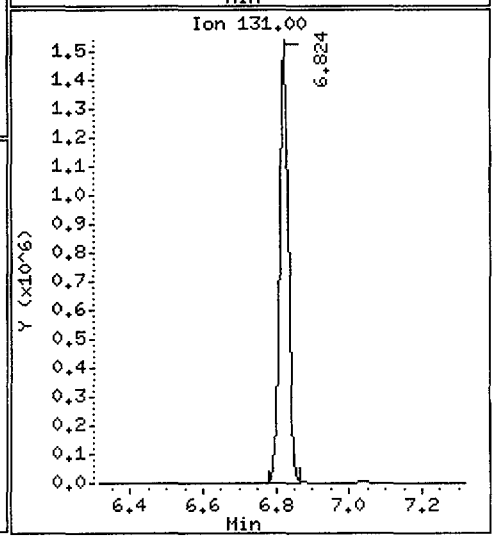












Data File: /var/chem/gcms/mx.i/X050306.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

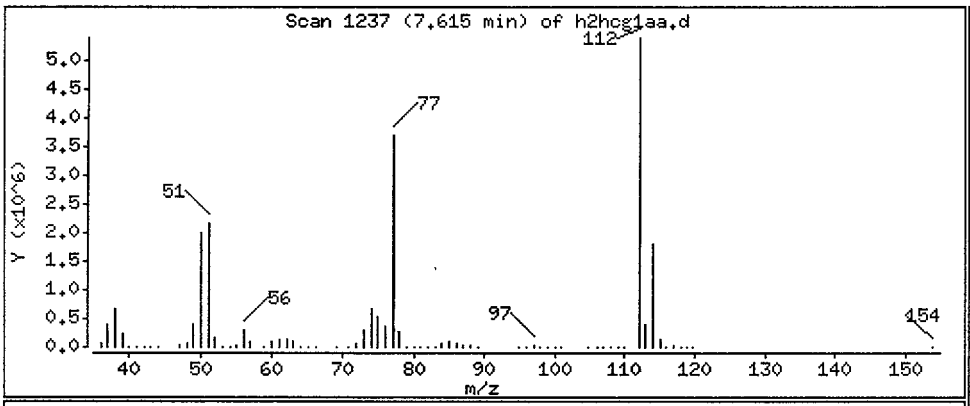
Operator: 22980

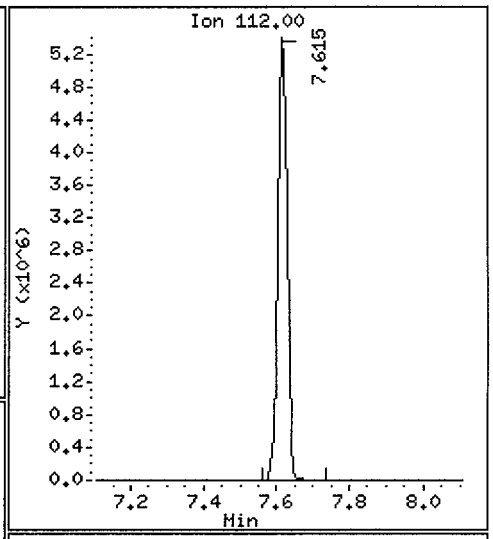
Column phase: J+W 624

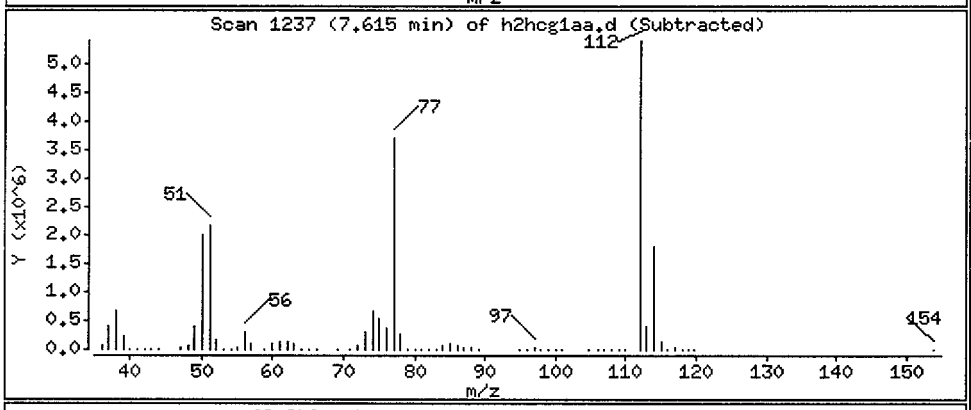
Column diameter: 0.18

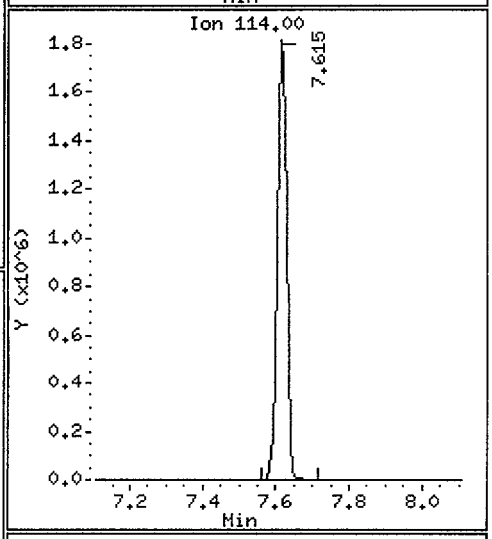
62 Chlorobenzene (spcc)

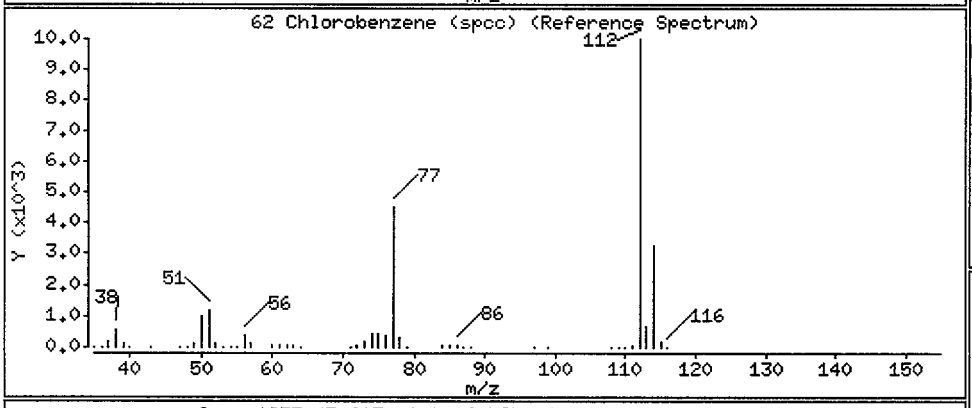
Concentration: 3.0966 ug

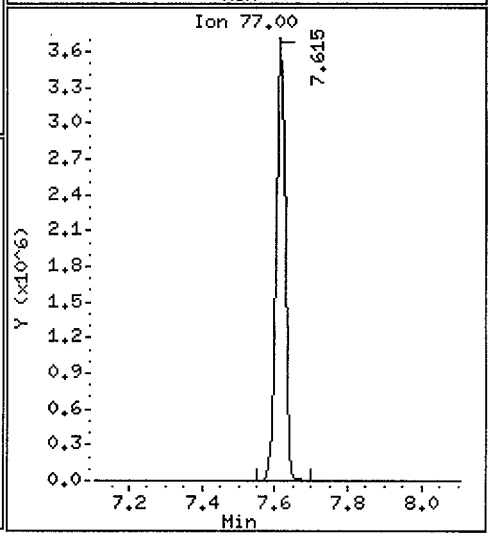


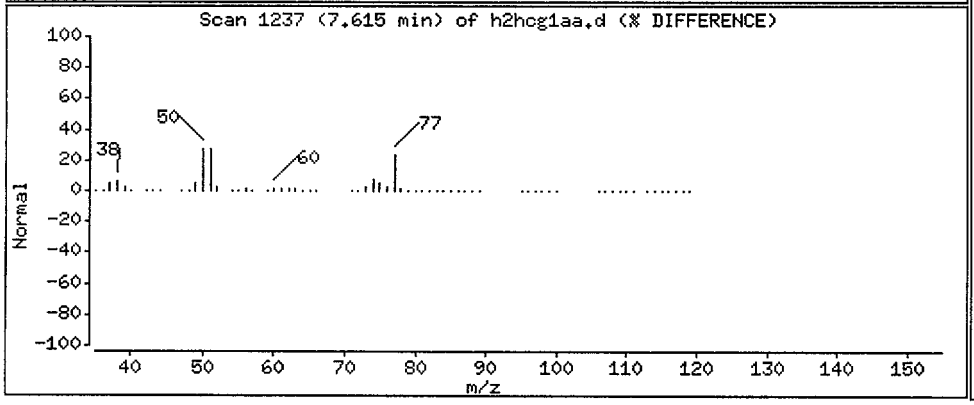












STL Knoxville - ACS

Client Sample ID: G-3092-R3-VOST PAIR #2 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-026 **Work Order #...:** H2HCL1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.10 B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.025 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0021 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	**0.0090 J**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	**0.083**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	**0.0076 J**	**0.025**	**ug**	**0.0050**
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3092-R3-VOST PAIR #2 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-026 **Work Order #...:** H2HCL1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.12**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0043 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.016**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	108	(50 - 134)
1,2-Dichloroethane-d4	102	(50 - 134)
Toluene-d8	91	(57 - 127)
Bromofluorobenzene	86	(50 - 125)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3092-R3-VOST PAIR #2 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #: H6D030169-026 **Work Order #:** H2HCL1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d
Report Date: 07-Apr-2006 15:51

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d
Lab Smp Id: H2HCL1AA Client Smp ID: G-3092-R3-VOST PAIR
Inj Date : 07-APR-2006 15:33
Operator : 22980 Inst ID: mz.i
Smp Info : H2HCL1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 13:06 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.675	5.676	(1.000)	759484	10.0000	
* 2 Chlorobenzene-d5	119	8.935	8.937	(1.000)	175340	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.496	11.492	(1.000)	230555	10.0000	
$ 4 Dibromofluoromethane	113	4.829	4.831	(0.851)	131636	10.8167	0.27042
$ 5 1,2-Dichloroethane-d4	65	5.243	5.238	(0.924)	106900	10.1581	0.25395
$ 6 Toluene-d8	98	7.463	7.465	(0.835)	698107	9.06144	0.22654
$ 7 4-Bromofluorobenzene	95	10.128	10.129	(0.881)	200807	8.63628	0.21591
10 Dichlorodifluoromethane	85	1.015	1.016	(0.179)	5641	0.30430	0.0076076
11 Chloromethane (spcc)	50	1.124	1.126	(0.198)	166381	3.33825	0.083456
15 Bromomethane	94	1.422	1.418	(0.251)	1211	0.98380	0.024595
16 Chloroethane	64	1.398	1.485	(0.246)	25900	1.82854	0.045714
22 Acetone	43	2.128	2.123	(0.375)	1376	3.54852	0.088713
23 *Iodomethane	142	2.183	2.184	(0.385)	908	0.56814	0.014204
24 Carbon Disulfide	76	2.237	2.239	(0.394)	4966	0.08523	0.0021308
27 Methylene Chloride	84	2.511	2.513	(0.443)	58696	4.62102	0.11552
39 *THF	42	4.543	4.532	(0.801)	1360	0.75512	0.018878

JW 4.14.06

- See report for (m)

Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d
Report Date: 07-Apr-2006 15:51

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
44 Benzene	78	5.310	5.305	(0.936)	8158	0.10893	0.0027234
45 1,2-Dichloroethane	62	5.675	5.335	(1.000)	11701	0.73780	0.018445
46 Trichloroethene	130	6.119	6.114	(1.078)	13546	0.64297	0.016074
53 4-Methyl-2-pentanone	43	7.463	7.386	(1.315)	6007	0.90578	0.022645
54 Toluene (ccc)	91	7.530	7.532	(0.843)	17259	0.17296	0.0043240
55 trans-1,3-Dichloropropene	75	7.475	7.793	(0.837)	162	0.63547	0.015887
58 Tetrachloroethene	164	8.102	8.097	(0.907)	1666	0.08052	0.0020130
61 Chlorodibromomethane	129	8.096	8.353	(0.906)	1348	0.91716	0.022929
63 Chlorobenzene (spcc)	112	8.966	8.961	(1.003)	20056	0.36011	0.0090026
65 Ethylbenzene (ccc)	106	9.227	9.101	(1.033)	2382	0.06640	0.0016599
67 o-Xylene	106	9.227	9.612	(1.033)	2382	0.06218	0.0015545
68 Styrene	104	9.635	9.630	(1.078)	2418	0.04495	0.0011238
69 Bromoform (spcc)	173	10.122	9.782	(1.133)	174	0.86374	0.021594
83 1,3-Dichlorobenzene	146	11.527	11.395	(1.003)	3667	0.09088	0.0022721
85 1,4-Dichlorobenzene	146	11.527	11.528	(1.003)	3667	0.09771	0.0024426

DW 4.14.06

Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcl1aa.d
Report Date: 14-Apr-2006 16:01

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2hcl1aa.d
Lab Smp Id: H2HCL1AA Client Smp ID: G-3092-R3-VOST PAIR
Inj Date : 07-APR-2006 15:33
Operator : 22980 Inst ID: mz.i
Smp Info : H2HCL1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.675	5.676	(1.000)	759484	10.0000	
* 2 Chlorobenzene-d5	119	8.935	8.937	(1.000)	175340	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.496	11.492	(1.000)	230555	10.0000	
$ 4 Dibromofluoromethane	113	4.829	4.831	(0.851)	131636	10.8167	0.27042
$ 5 1,2-Dichloroethane-d4	65	5.243	5.238	(0.924)	106900	10.1580	0.25395
$ 6 Toluene-d8	98	7.463	7.465	(0.835)	698107	9.06146	0.22654
$ 7 4-Bromofluorobenzene	95	10.128	10.129	(0.881)	200807	8.63628	0.21591
10 Dichlorodifluoromethane	85	1.015	1.016	(0.179)	5641	0.30428	0.0076070
11 Chloromethane (spcc)	50	1.124	1.126	(0.198)	166381	3.33824	0.083456
15 Bromomethane	94	1.422	1.418	(0.251)	1211	0.98374	0.024594
22 Acetone	43	2.128	2.123	(0.375)	4038	4.14960	0.10374(M)
23 *Iodomethane	142	2.183	2.184	(0.385)	908	0.56810	0.014202
24 Carbon Disulfide	76	2.237	2.239	(0.394)	4966	0.08523	0.0021307
27 Methylene Chloride	84	2.511	2.513	(0.443)	58696	4.62102	0.11552
39 *THF	42	4.543	4.532	(0.801)	1360	0.75472	0.018868
44 Benzene	78	5.310	5.305	(0.936)	8158	0.10892	0.0027231

Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcl1aa.d
Report Date: 14-Apr-2006 16:01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
46 Trichloroethene	130	6.119	6.114	(1.078)	13546	0.64296	0.016074
54 Toluene (ccc)	91	7.530	7.532	(0.843)	17259	0.17296	0.0043240
58 Tetrachloroethene	164	8.102	8.097	(0.907)	1666	0.08049	0.0020123
63 Chlorobenzene (spcc)	112	8.966	8.961	(1.003)	20056	0.36010	0.0090026
68 Styrene	104	9.635	9.630	(1.078)	2418	0.04494	0.0011236
85 1,4-Dichlorobenzene	146	11.527	11.528	(1.003)	3667	0.09768	0.0024420

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d
Report Date: 07-Apr-2006 15:51

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2hcl1aa.d
Lab Smp Id: H2HCL1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Calibration Date: 07-APR-2006
Calibration Time: 07:35
Client Smp ID: G-3092-R3-VOST PAIR
Level: LOW
Sample Type: AIR
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	952581	476290	1905162	759484	-20.27
2 Chlorobenzene-d5	164101	82050	328202	175340	6.85
3 1,4 Dichlorobenze	204390	102195	408780	230555	12.80

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.68	5.18	6.18	5.67	-0.03
2 Chlorobenzene-d5	8.94	8.44	9.44	8.94	-0.02
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.50	0.04

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

Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d
Report Date: 07-Apr-2006 15:51

STL Knoxville

RECOVERY REPORT

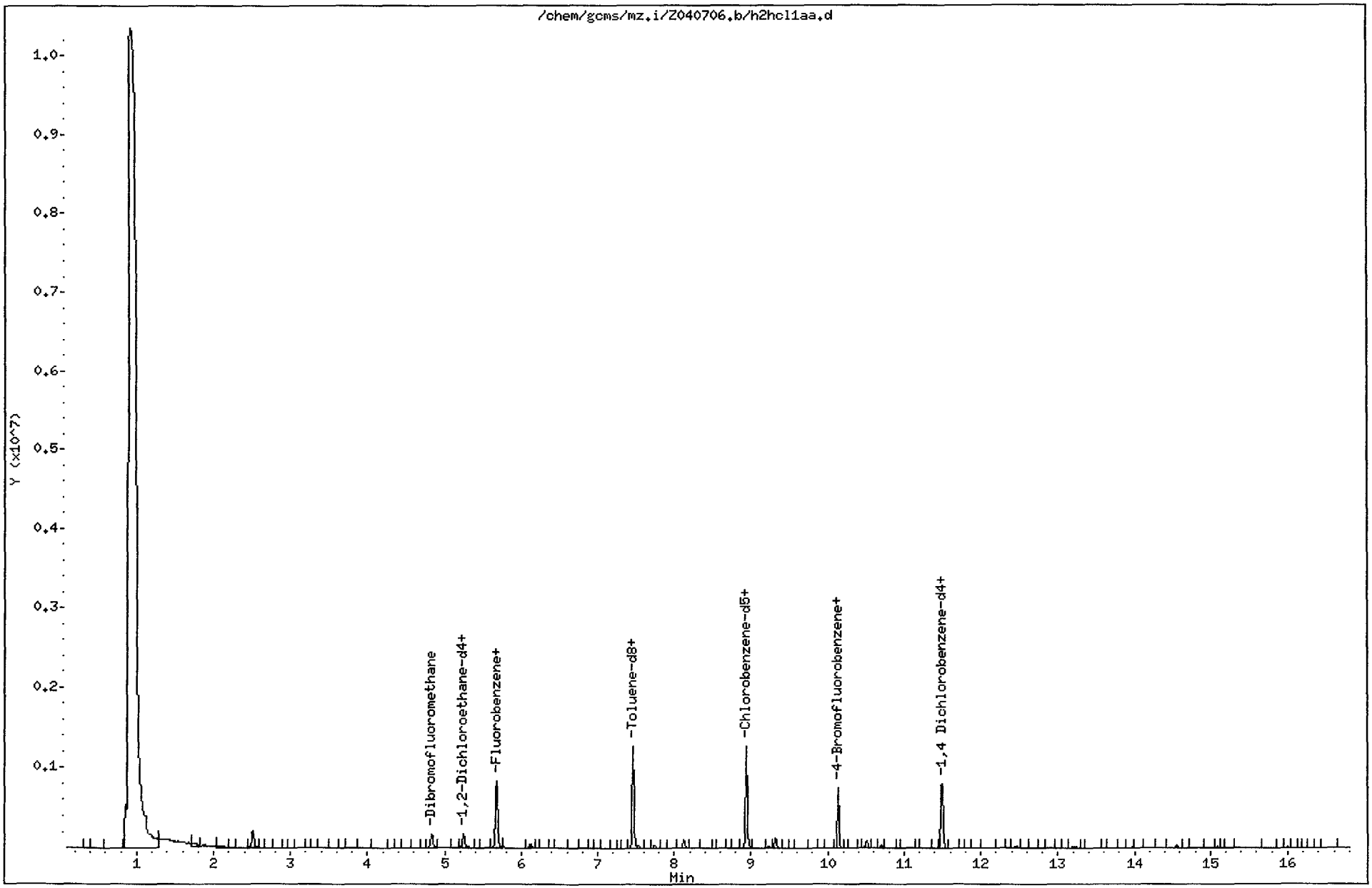
Client Name: STL Knoxville - ACS
Client SDG: H6D030169
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: H2HCL1AA
Client Smp ID: G-3092-R3-VOST PAIR
Level: LOW
Operator: 22980
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allcmpds.spk
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.27042	108.17	50-150
$ 5 1,2-Dichloroethane	0.25000	0.25395	101.58	50-150
$ 6 Toluene-d8	0.25000	0.22654	90.61	50-150
$ 7 4-Bromofluorobenze	0.25000	0.21591	86.36	50-150

Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d
Date : 07-APR-2006 15:33
Client ID: G-3092-R3-VOST PAIR
Sample Info: H2HCL1AA,1,0,,

Instrument: mz.i
Operator: 22980
Column diameter: 0.18

Column phase: J+W 624



Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

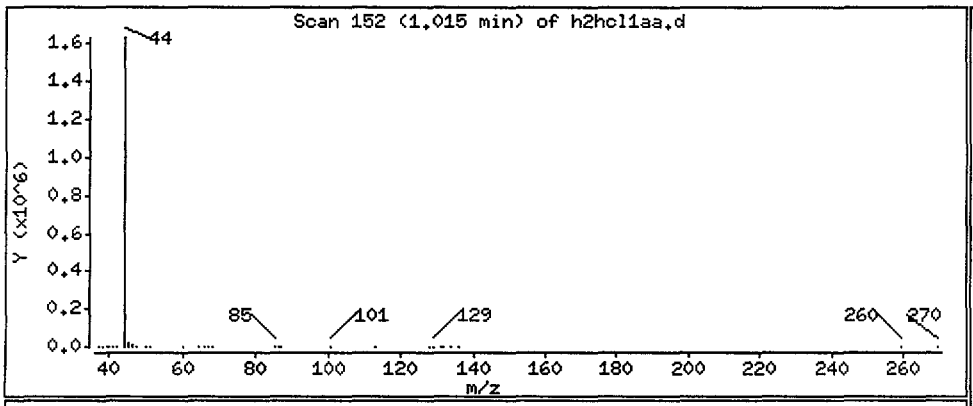
Operator: 22980

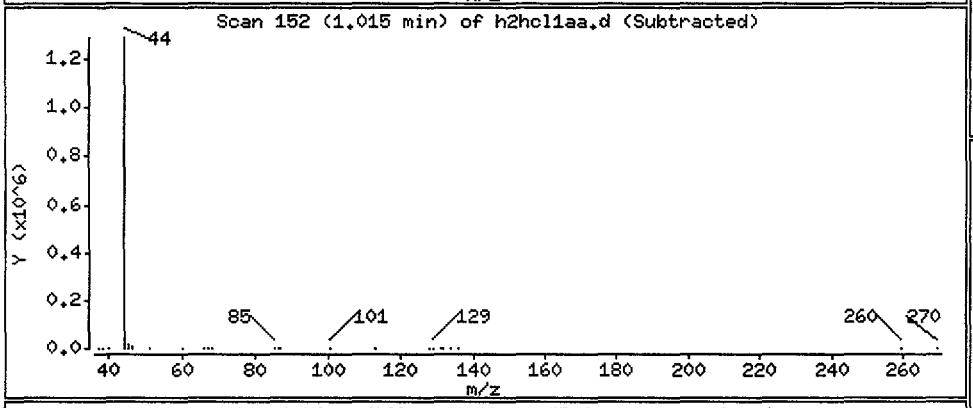
Column phase: J+W 624

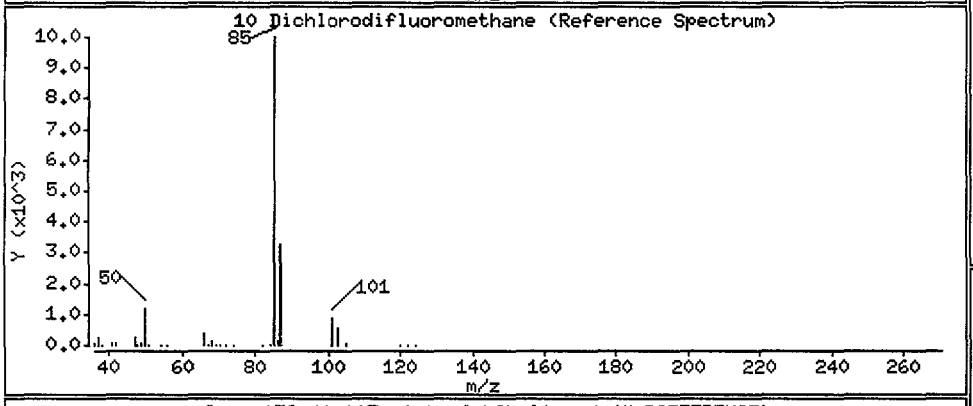
Column diameter: 0.18

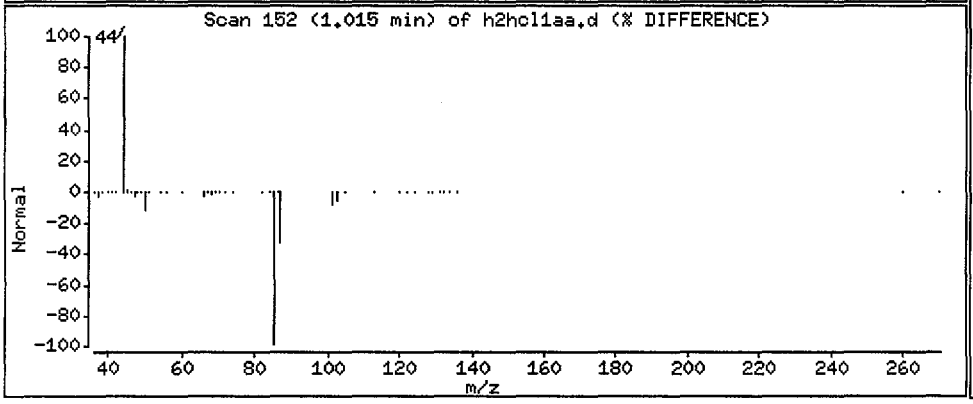
10 Dichlorodifluoromethane

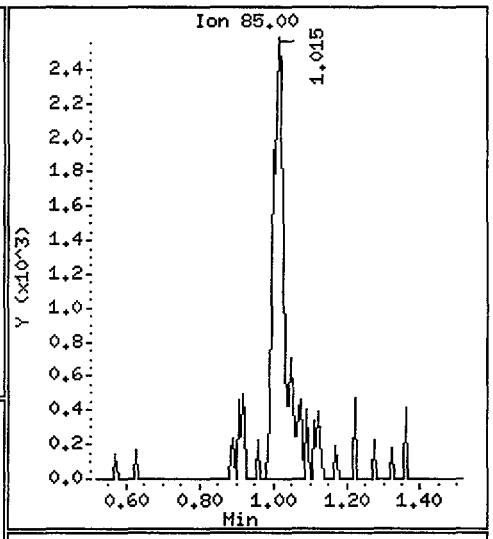
Concentration: 0.0076076 ug

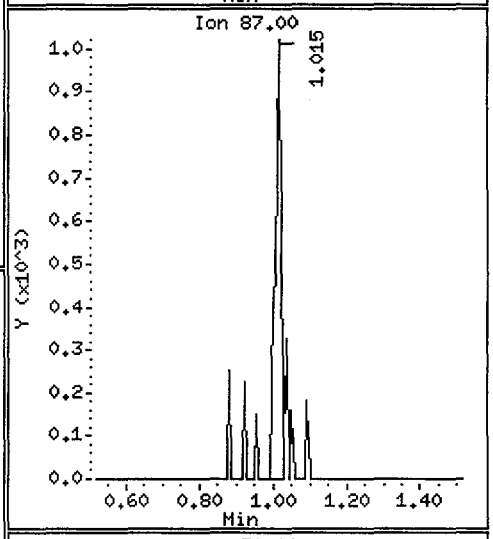


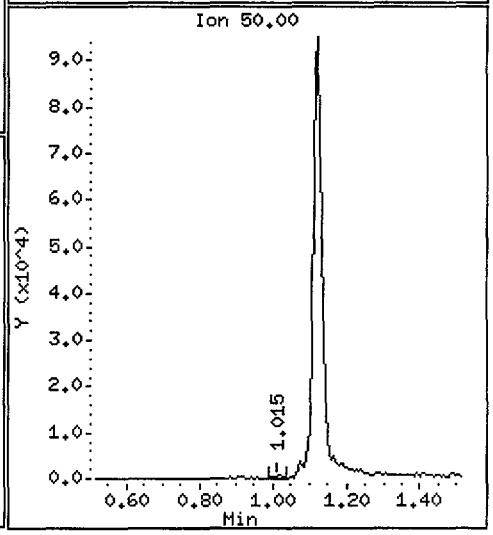












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

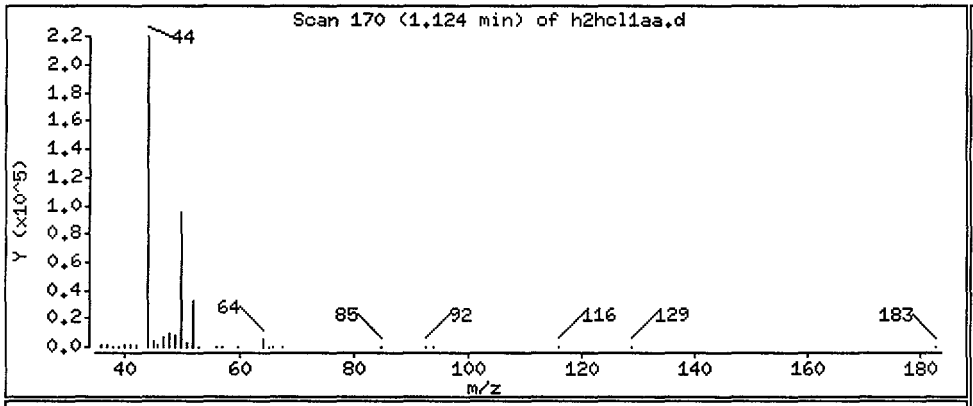
Operator: 22980

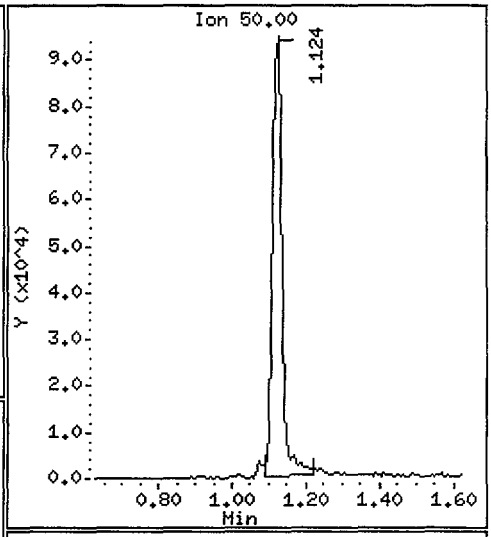
Column phase: J+W 624

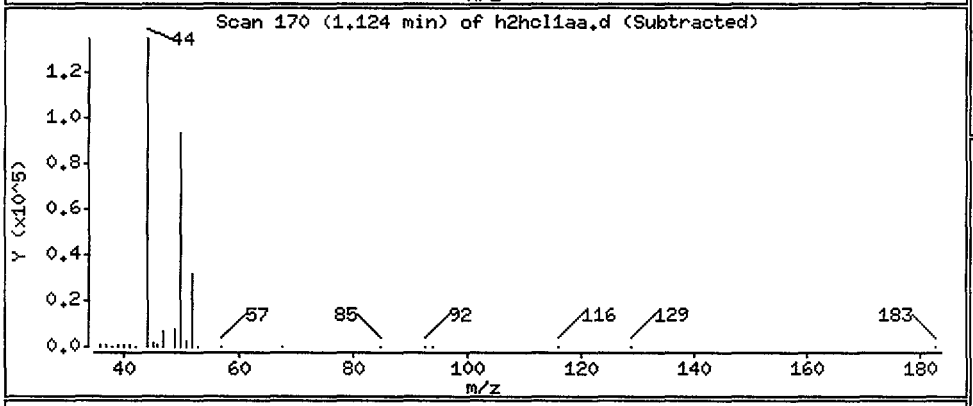
Column diameter: 0.18

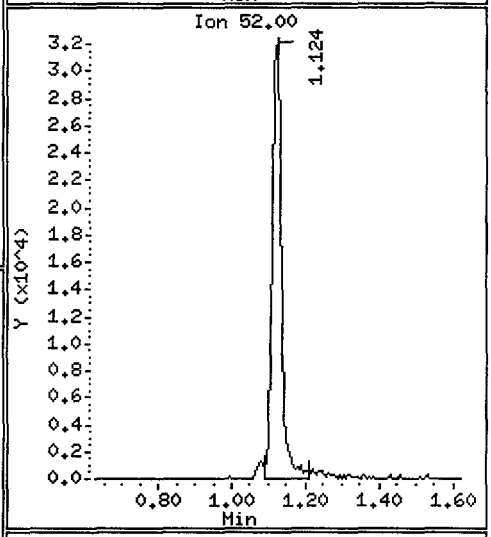
11 Chloromethane (spcc)

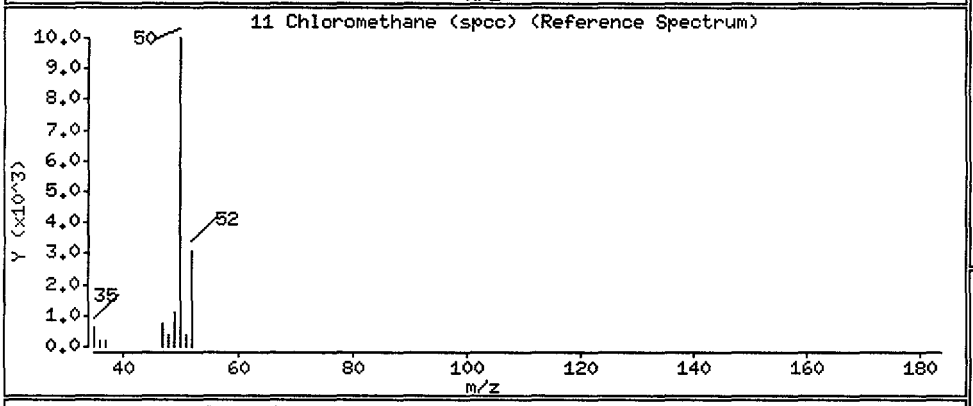
Concentration: 0.083456 ug

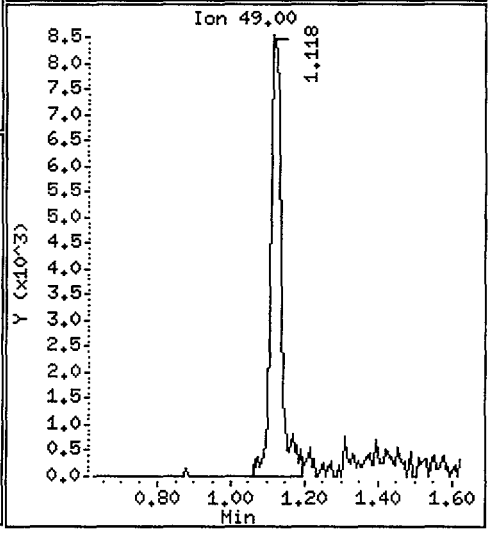


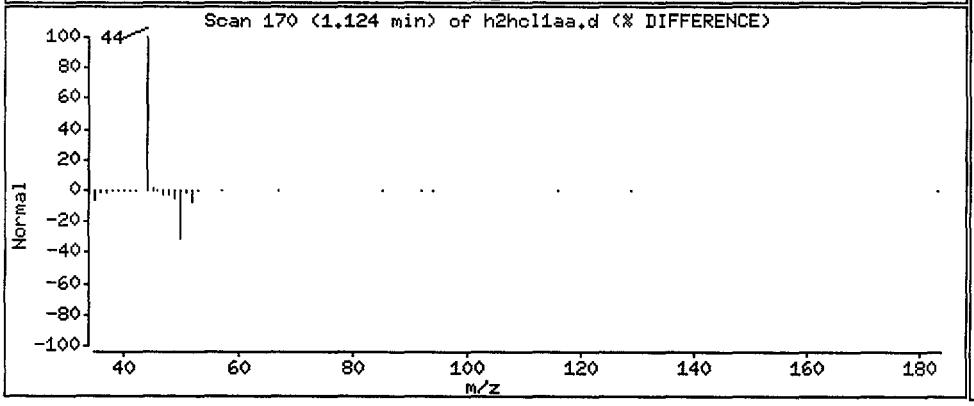












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

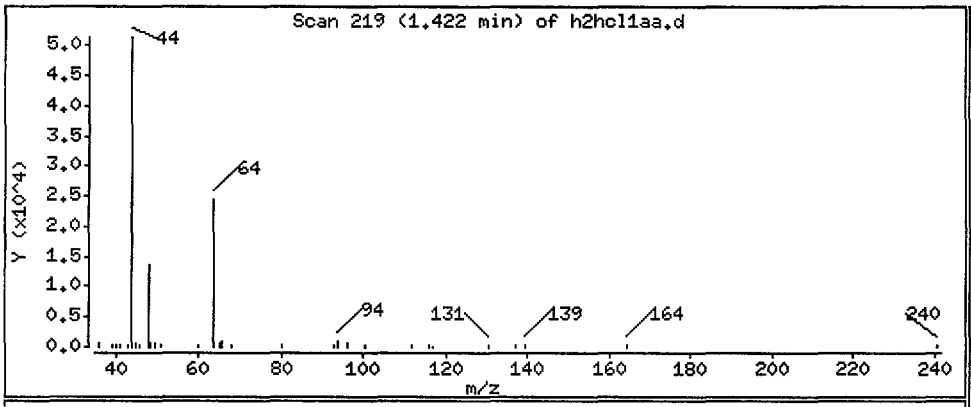
Operator: 22980

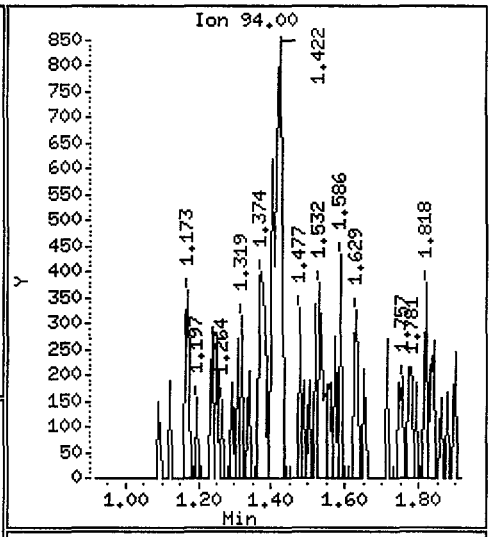
Column phase: J+W 624

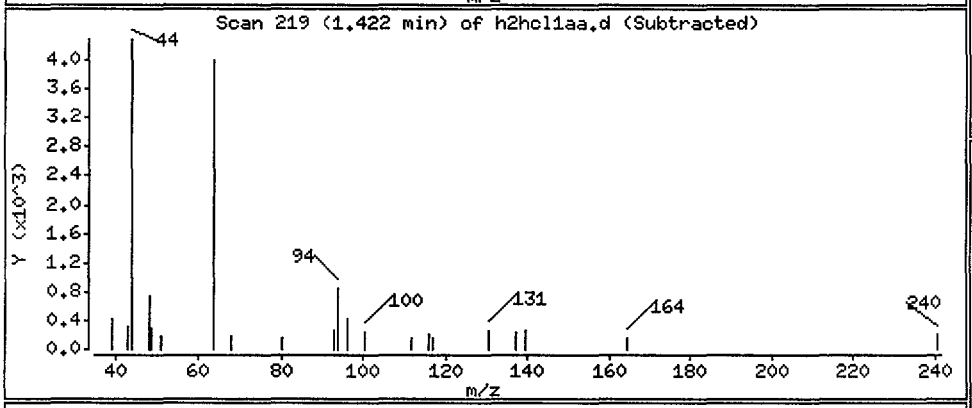
Column diameter: 0.18

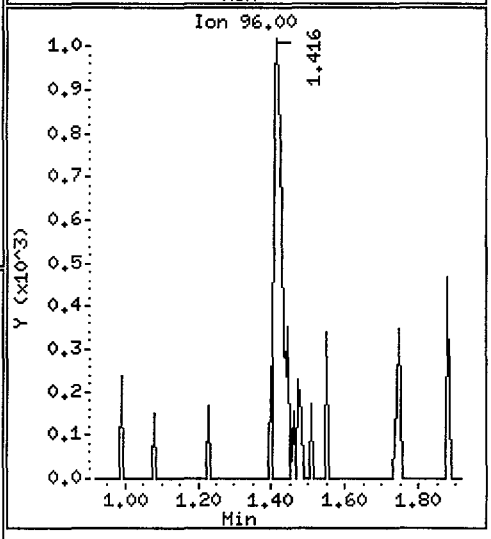
15 Bromomethane

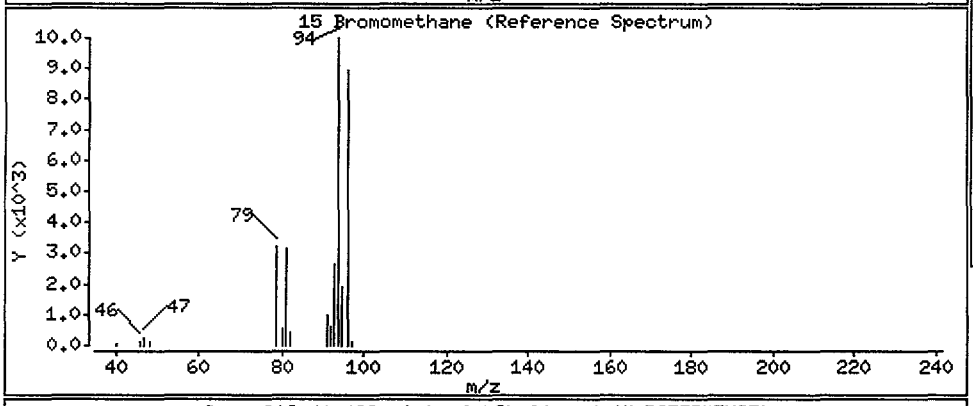
Concentration: 0.024595 ug

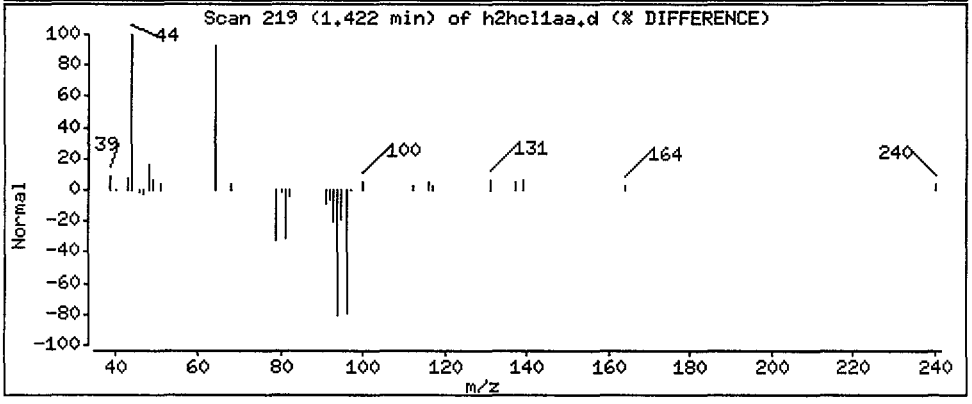












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

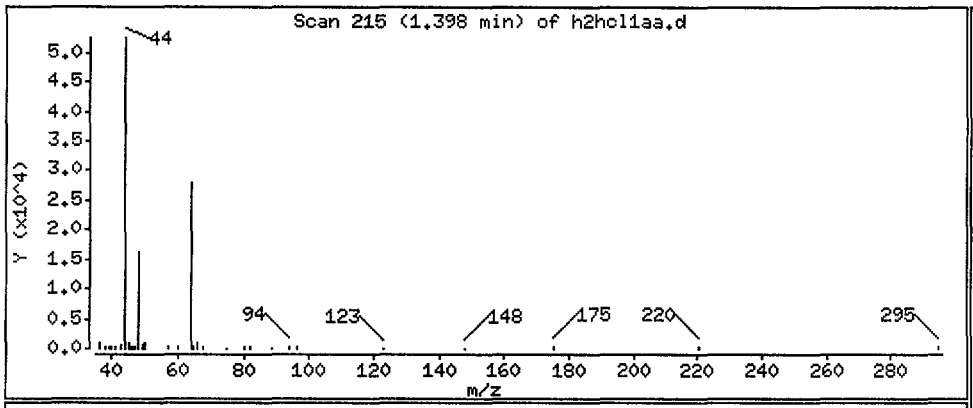
Operator: 22980

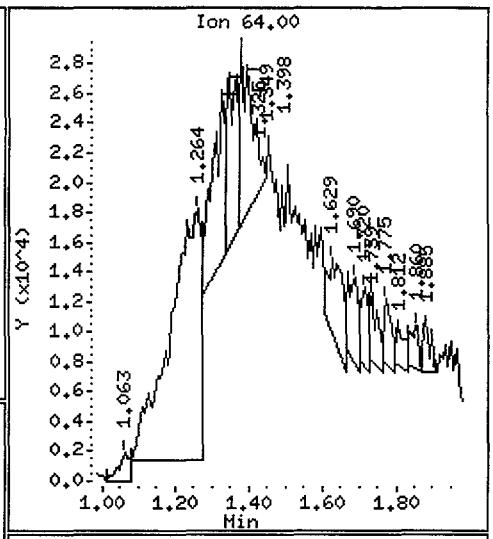
Column phase: J+W 624

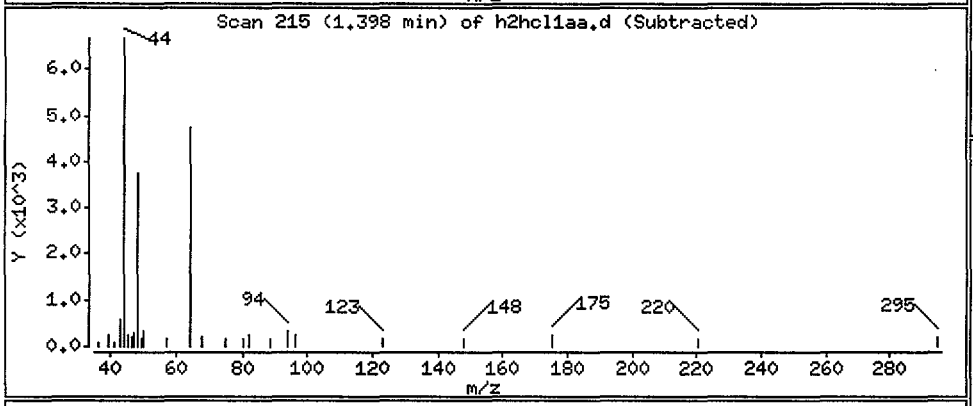
Column diameter: 0.18

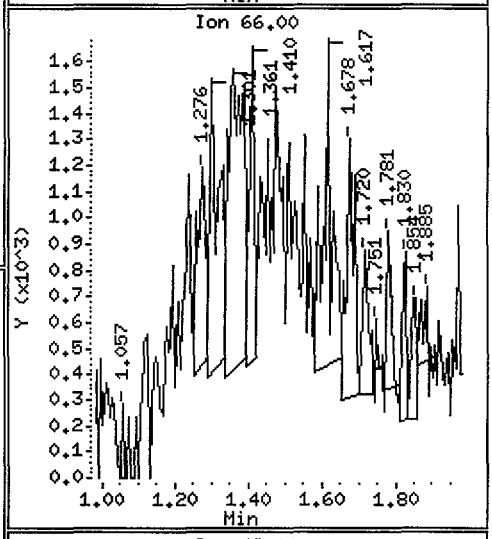
16 Chloroethane

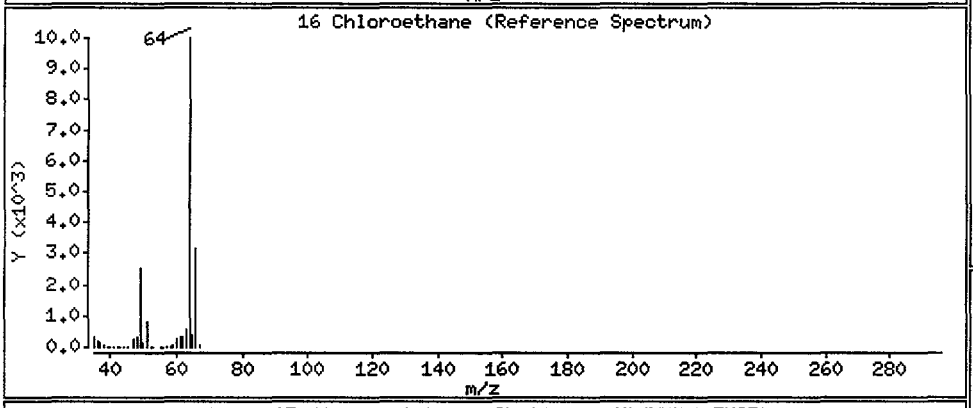
Concentration: 0.045714 ug

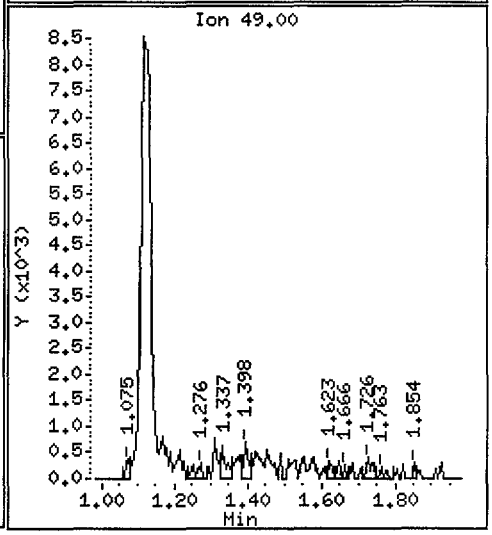


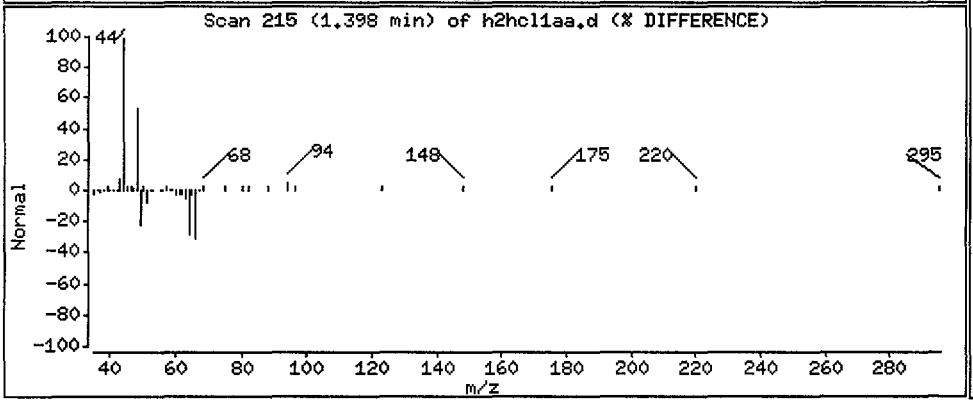












Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

Operator: 22980

Column phase: J+W 624

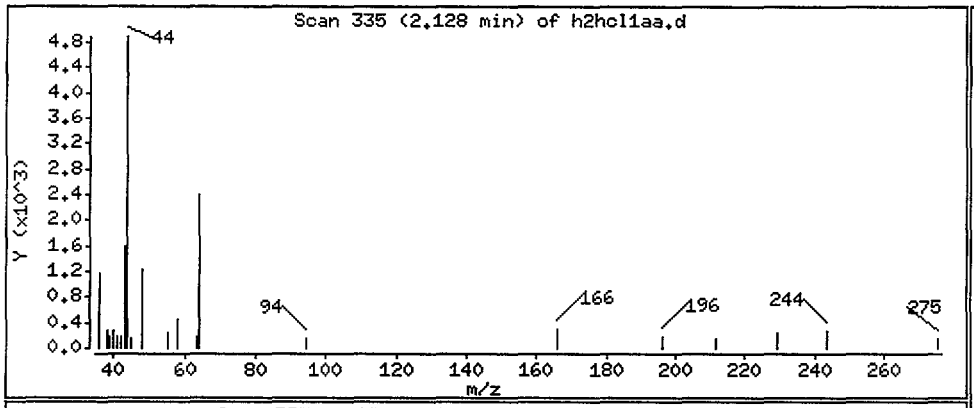
Column diameter: 0.18

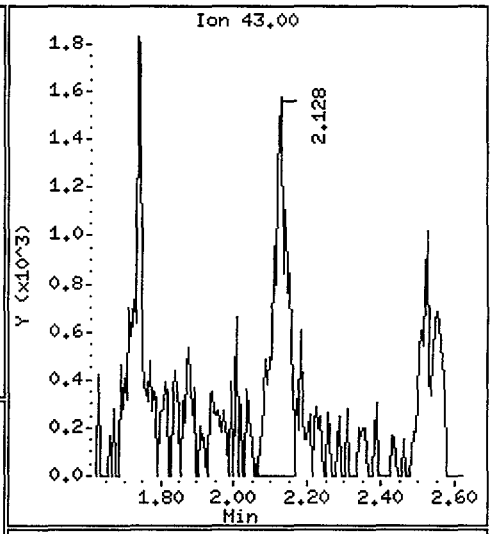
22 Acetone

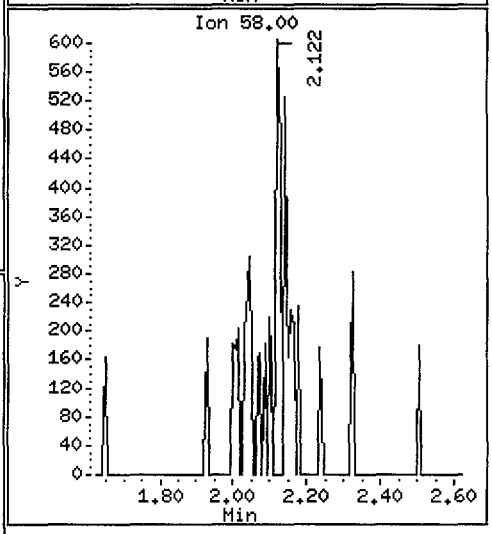
Concentration: 0.10374 ug

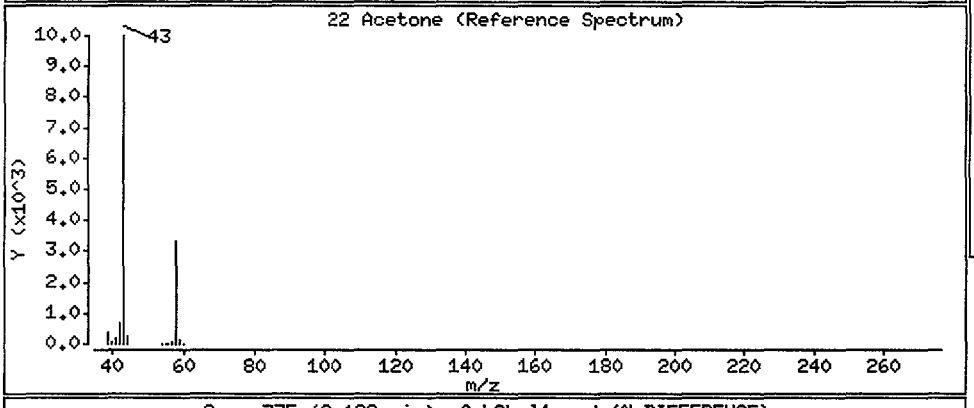
JW 4-14-06

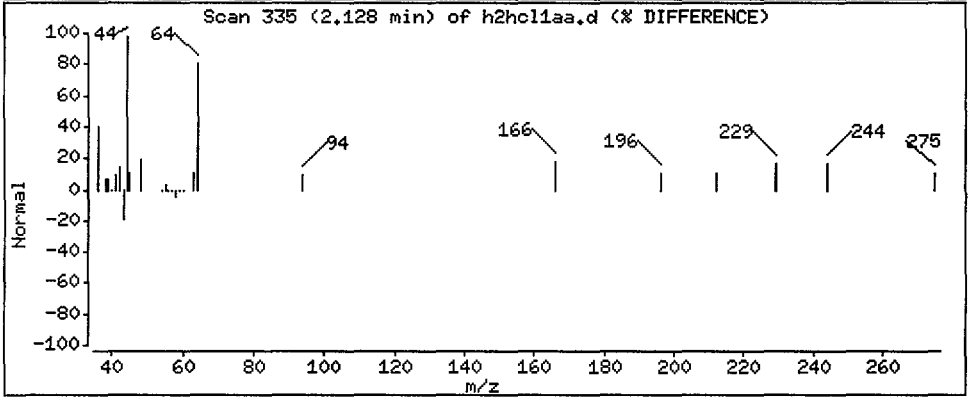
(1)











Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

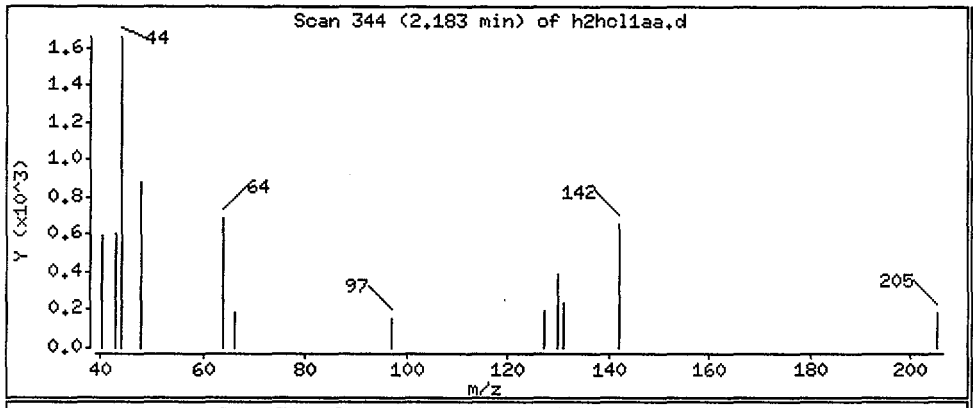
Operator: 22980

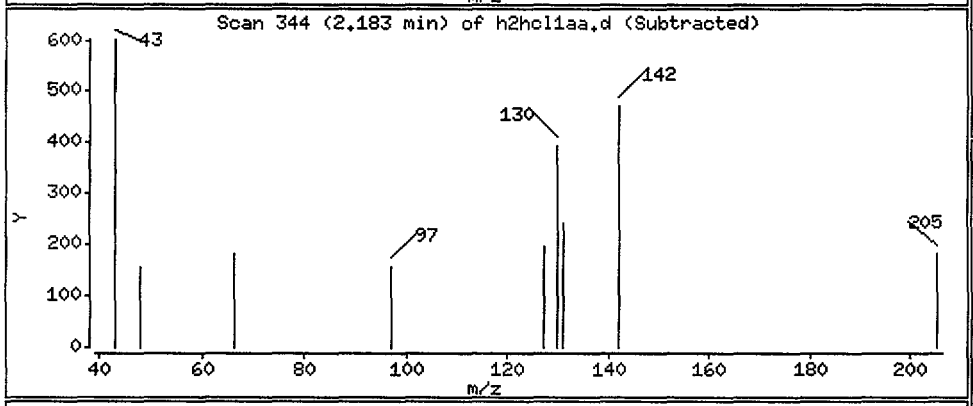
Column phase: J+W 624

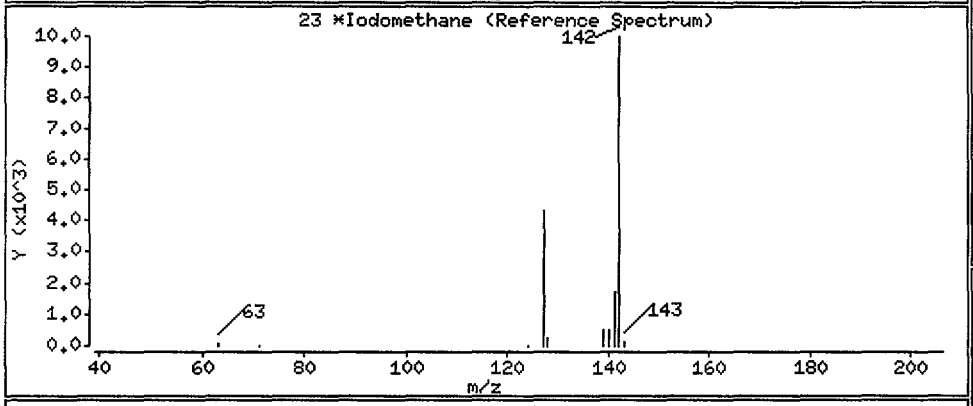
Column diameter: 0.18

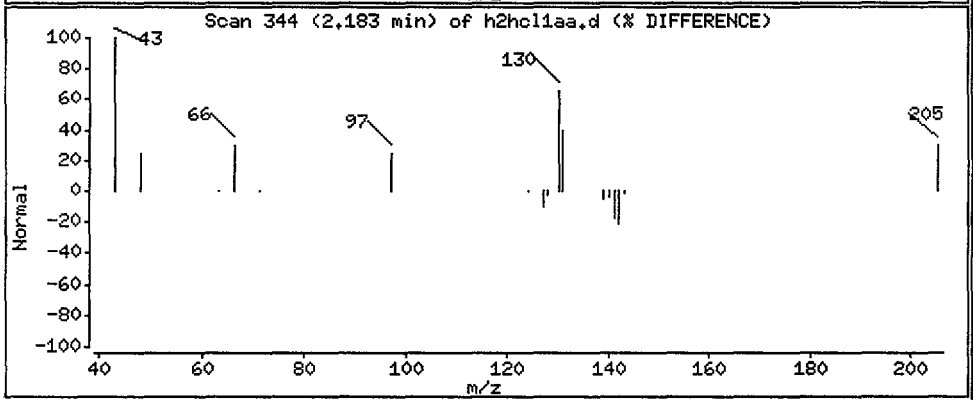
23 *Iodomethane

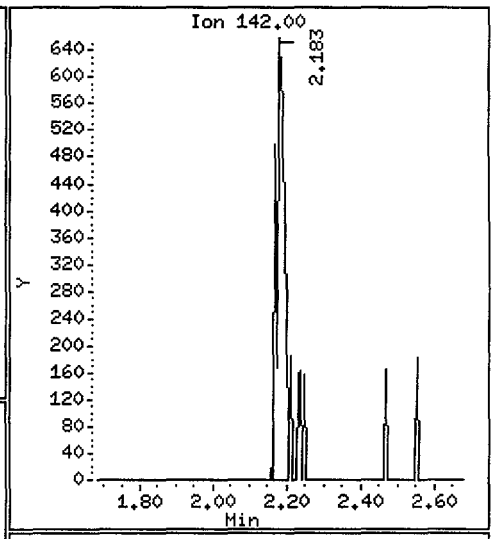
Concentration: 0.014204 ug

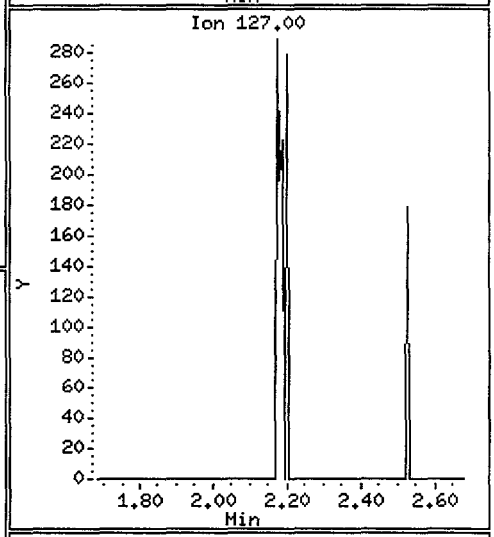


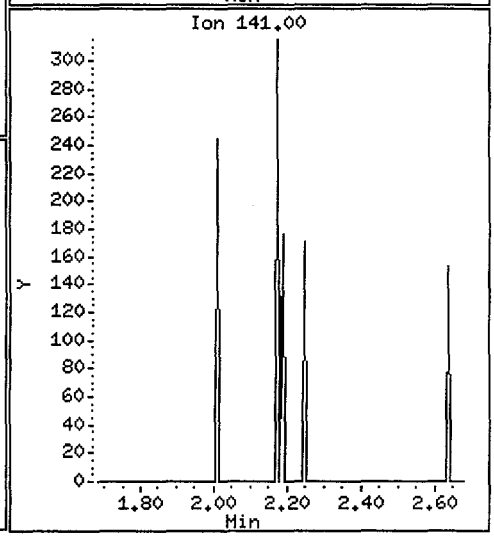












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

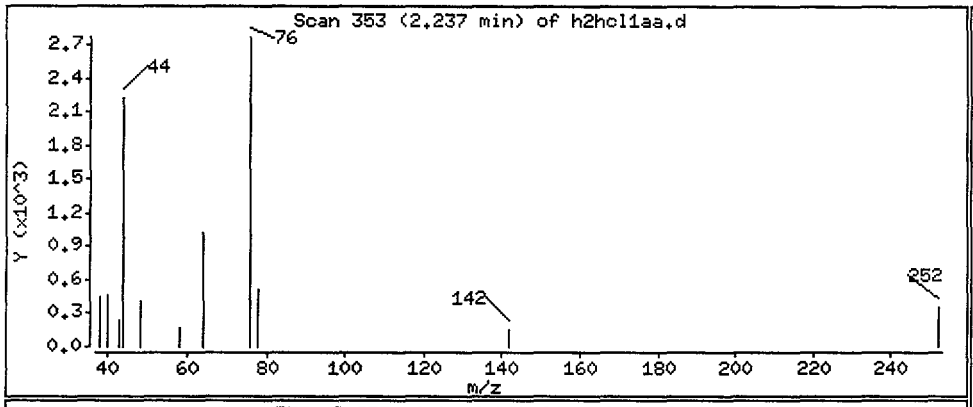
Operator: 22980

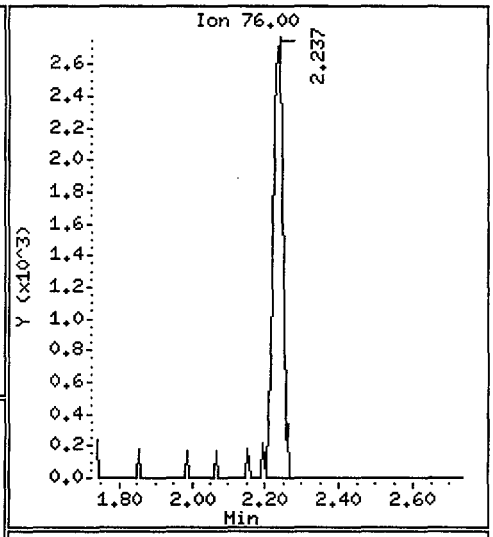
Column phase: J+W 624

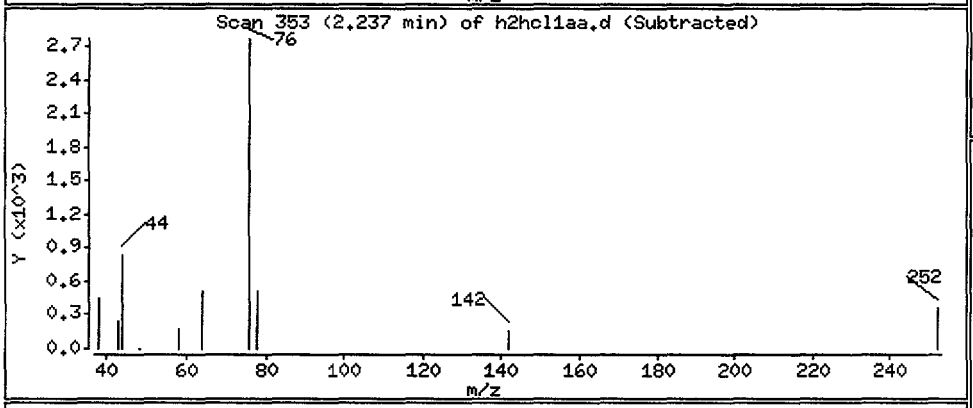
Column diameter: 0.18

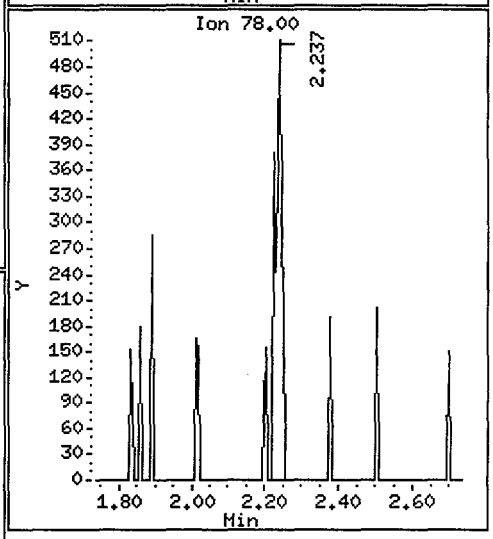
24 Carbon Disulfide

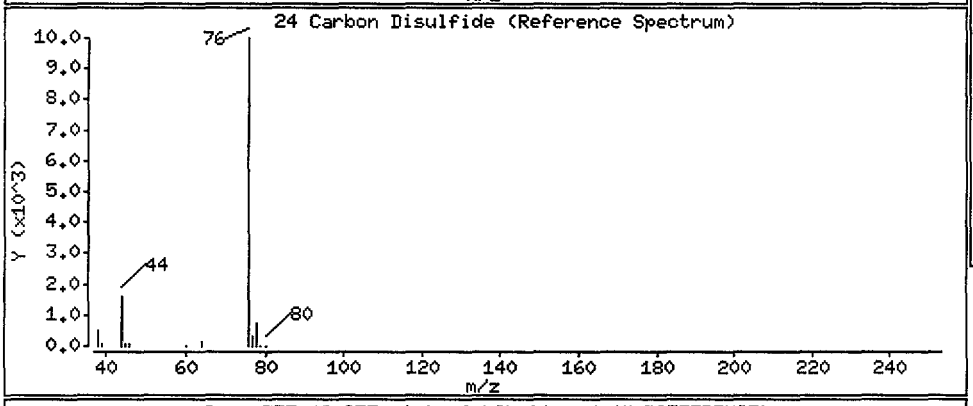
Concentration: 0.0021308 ug

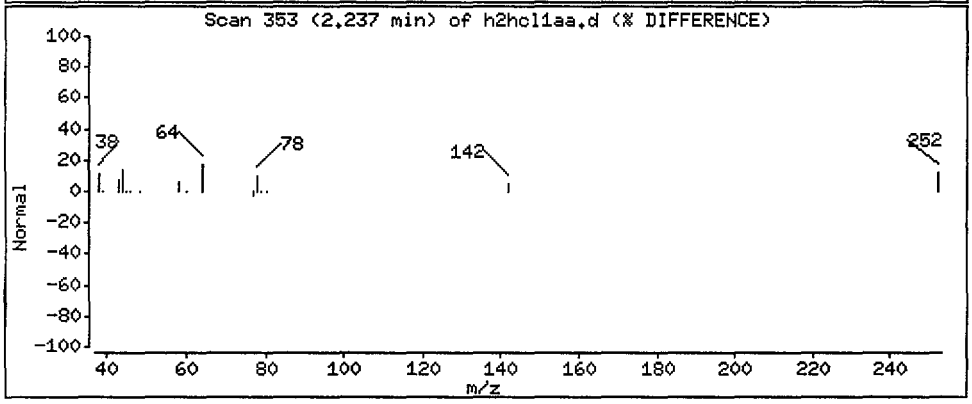












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

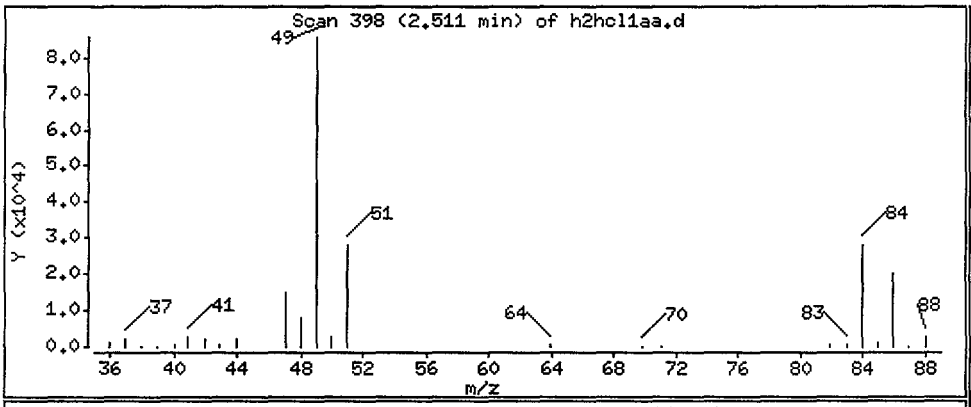
Operator: 22980

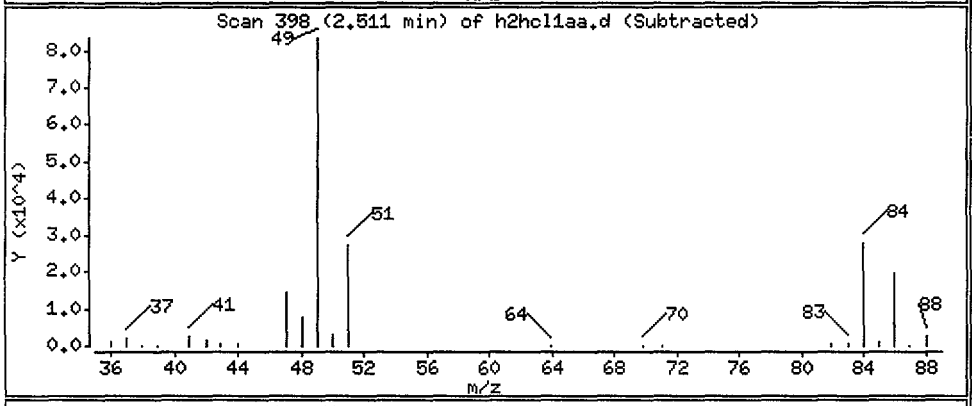
Column phase: J+W 624

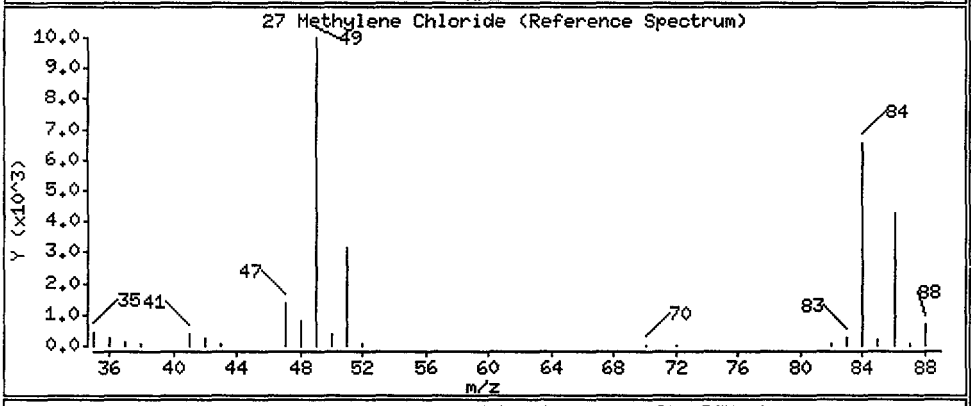
Column diameter: 0.18

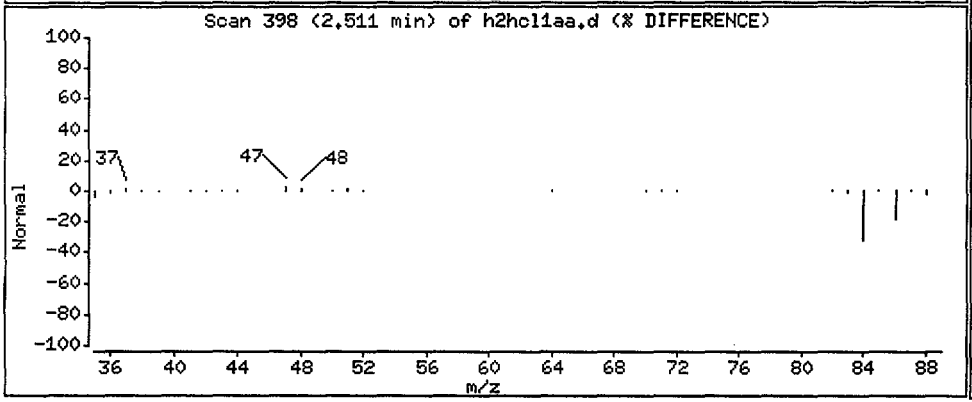
27 Methylene Chloride

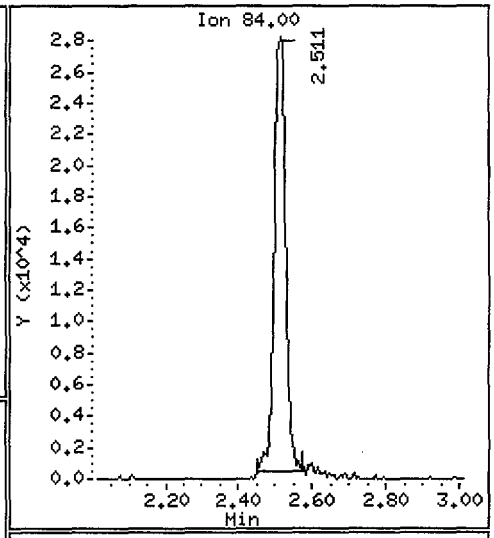
Concentration: 0.11552 ug

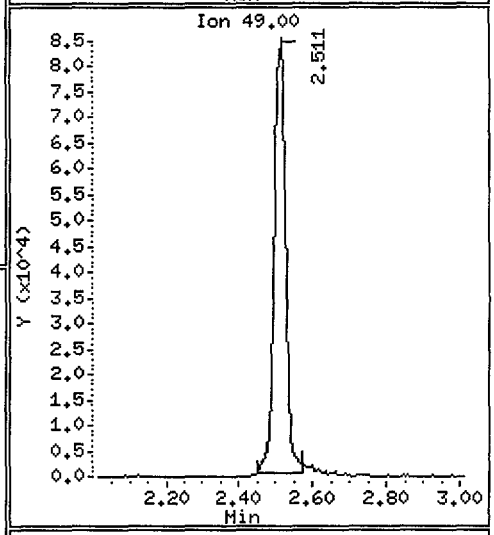


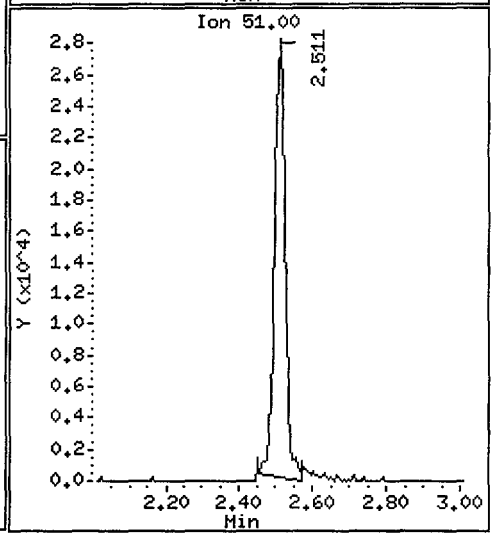












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

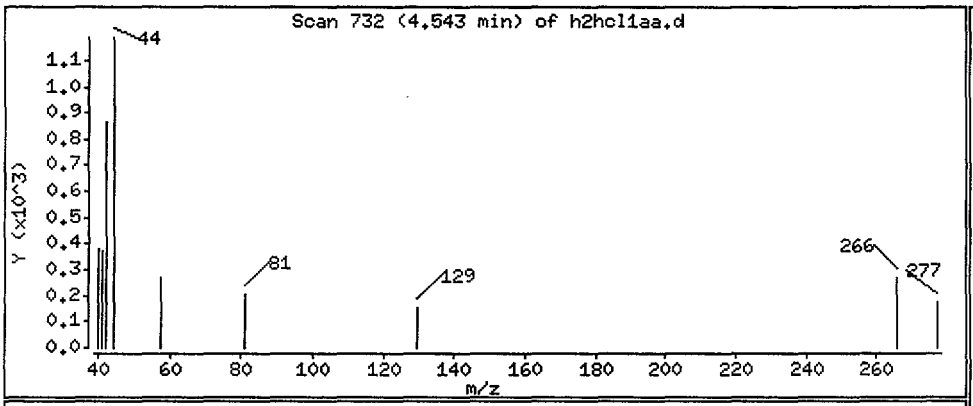
Operator: 22980

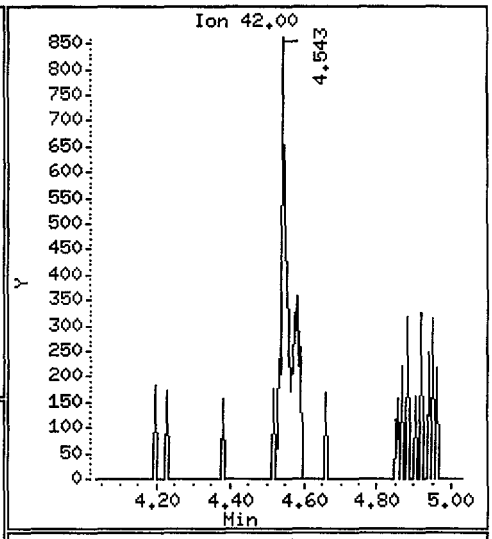
Column phase: J+W 624

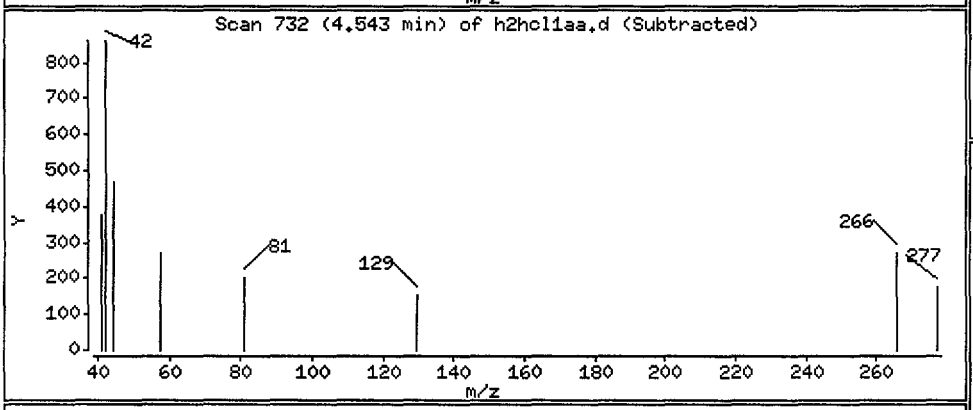
Column diameter: 0.18

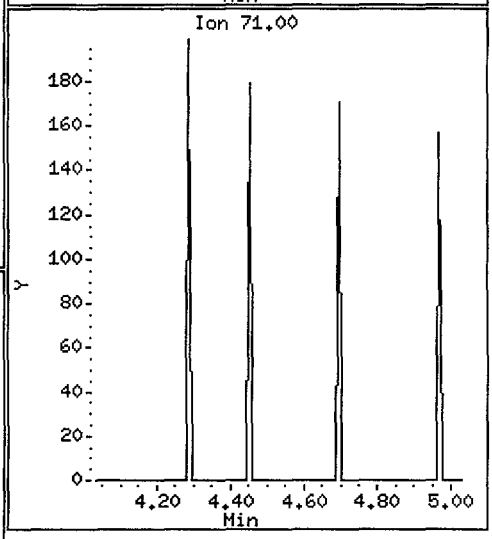
39 *THF

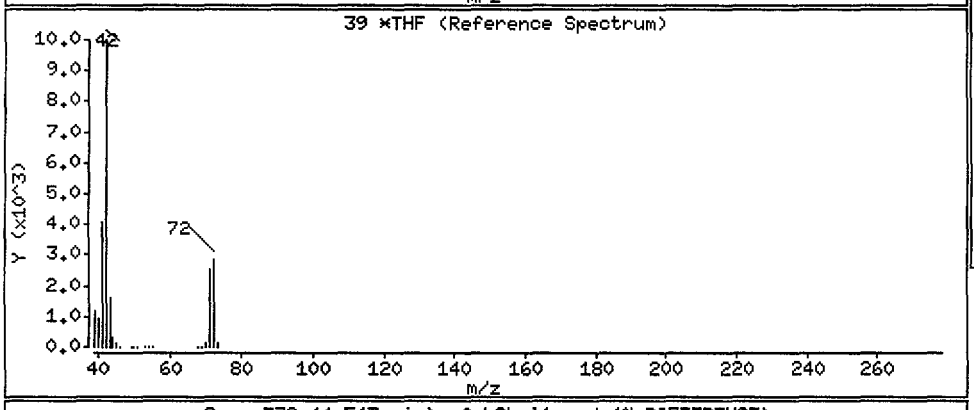
Concentration: 0.018878 ug

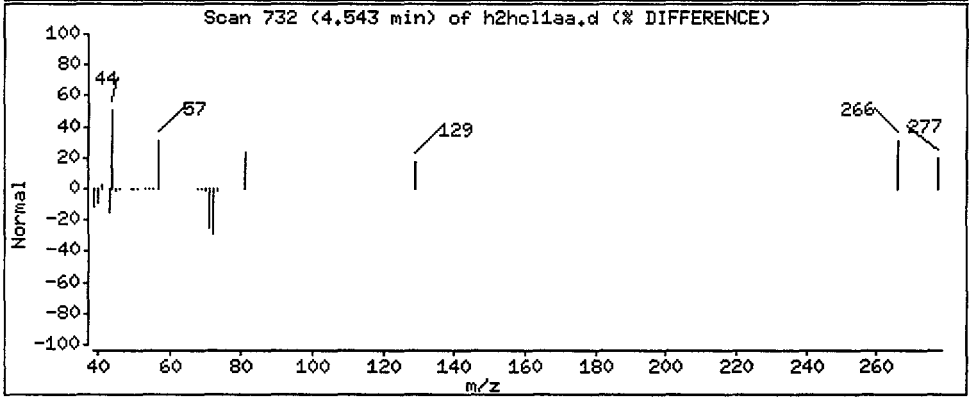












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

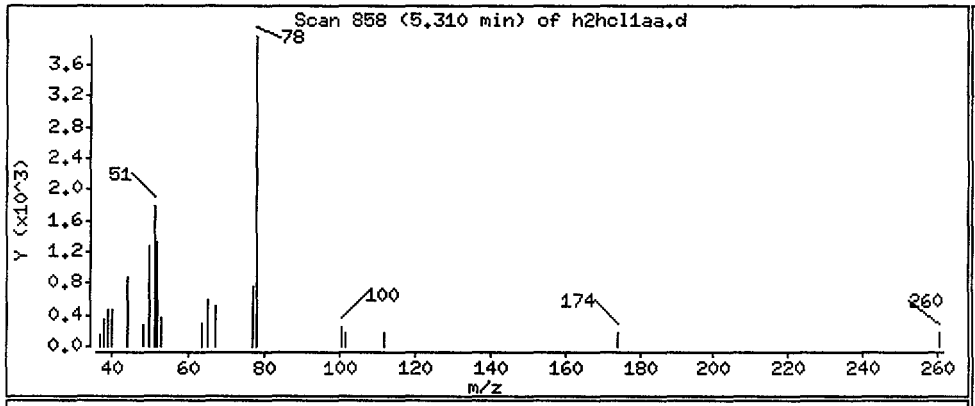
Operator: 22980

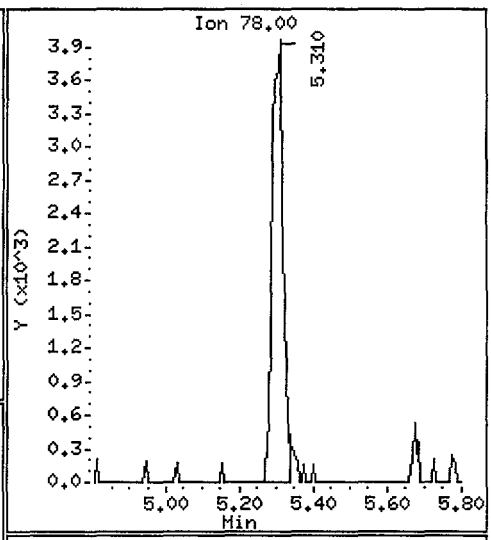
Column phase: J+W 624

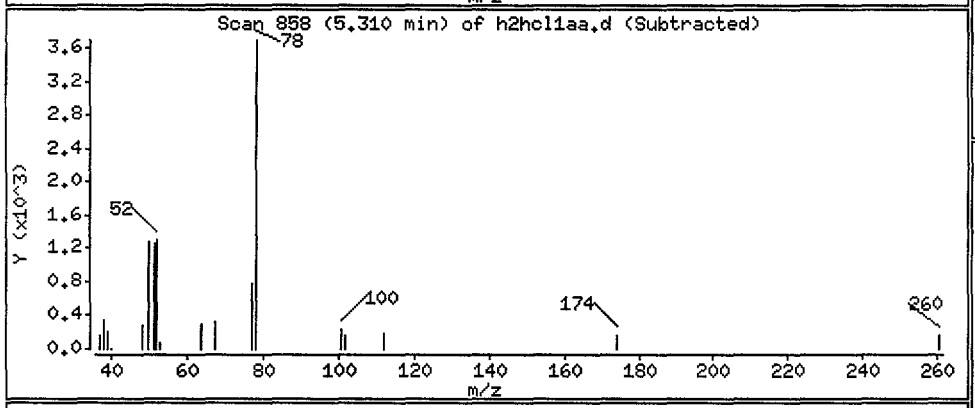
Column diameter: 0.18

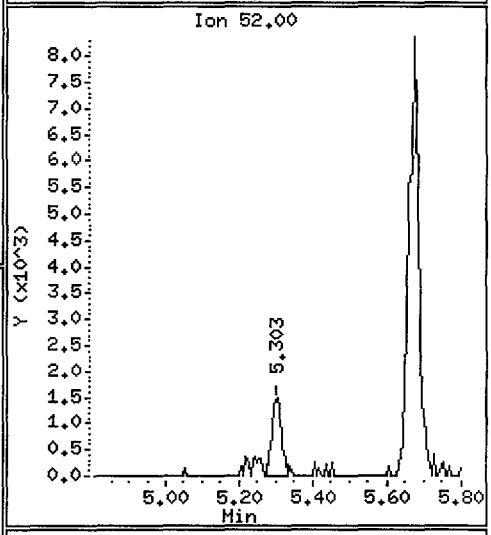
44 Benzene

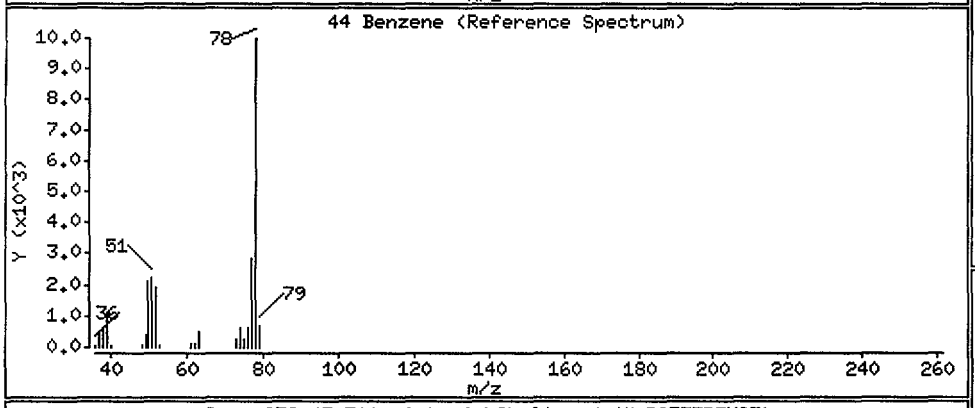
Concentration: 0.0027234 ug

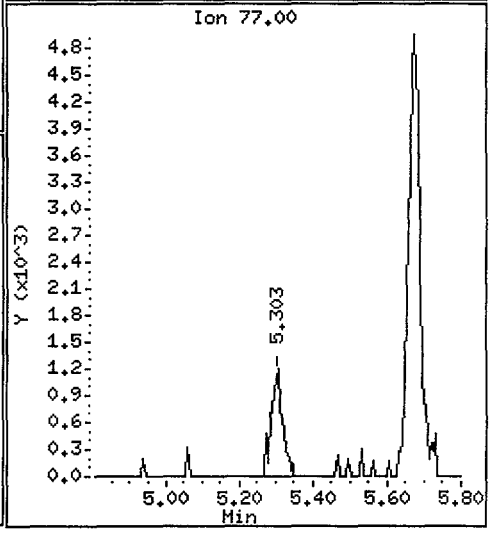


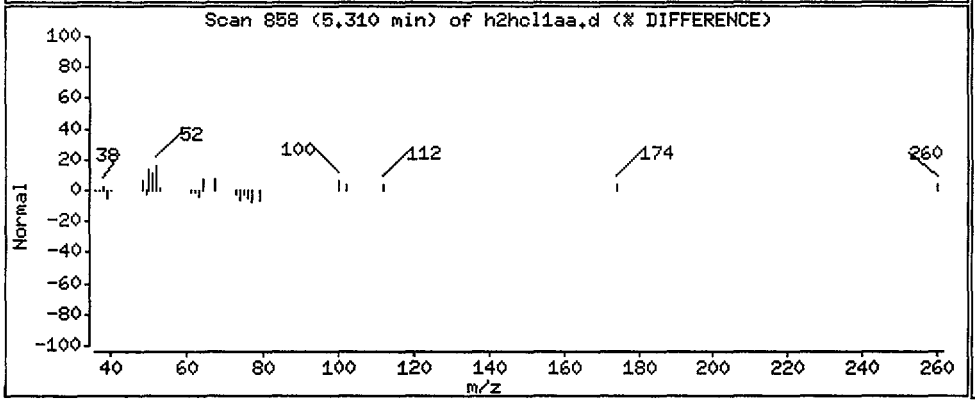












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

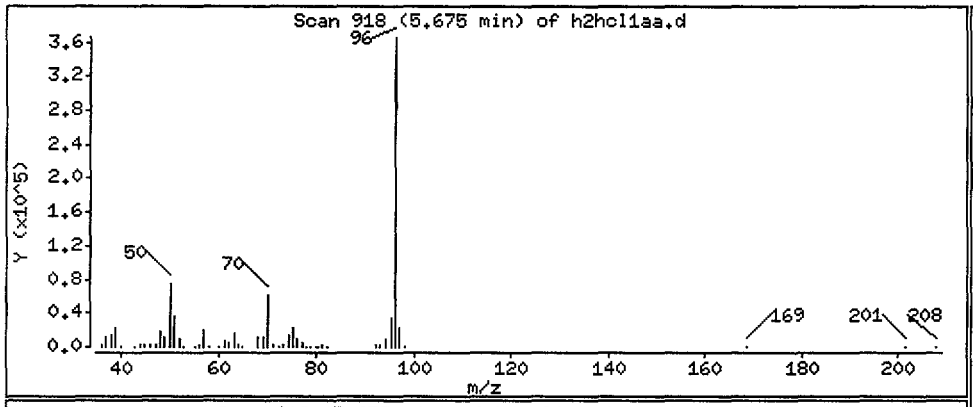
Operator: 22980

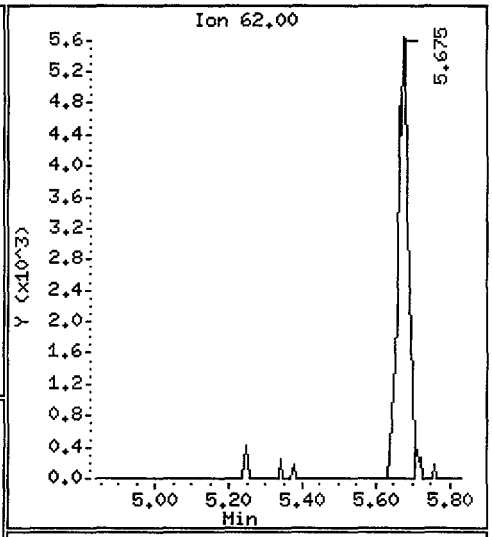
Column phase: J+W 624

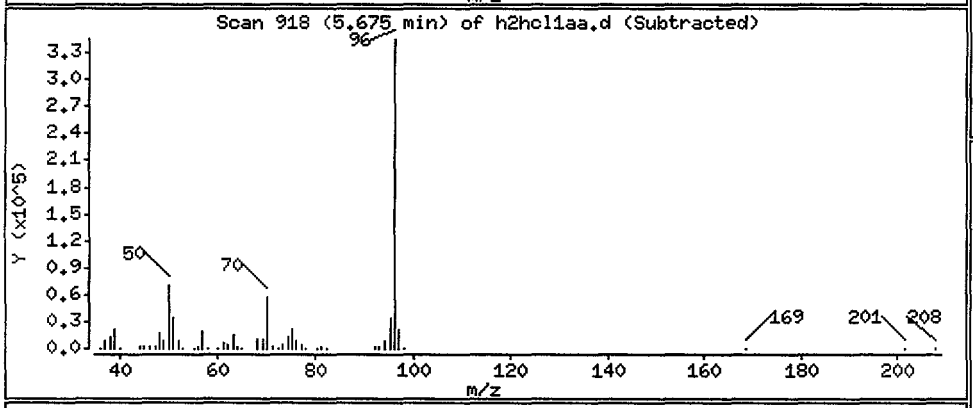
Column diameter: 0.18

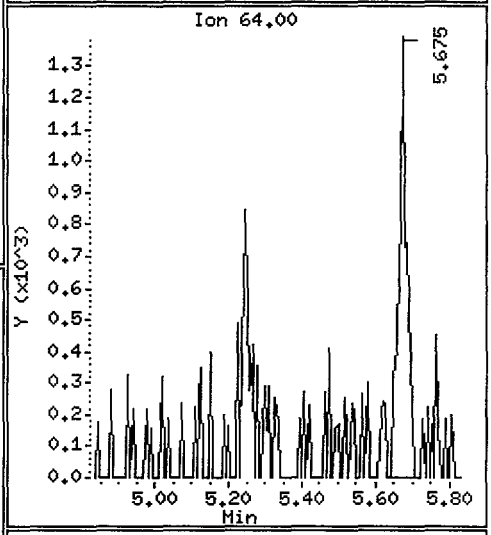
45 1,2-Dichloroethane

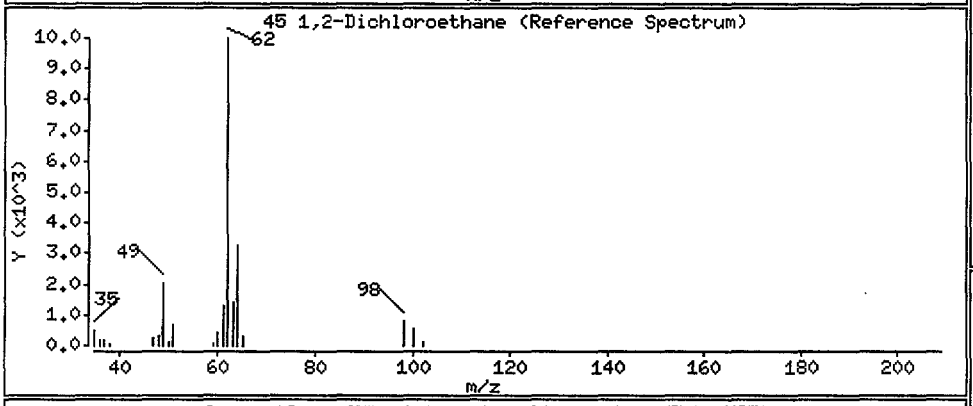
Concentration: 0.018445 ug

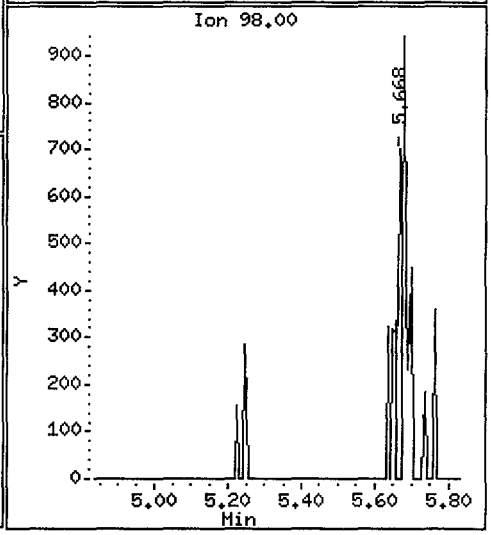


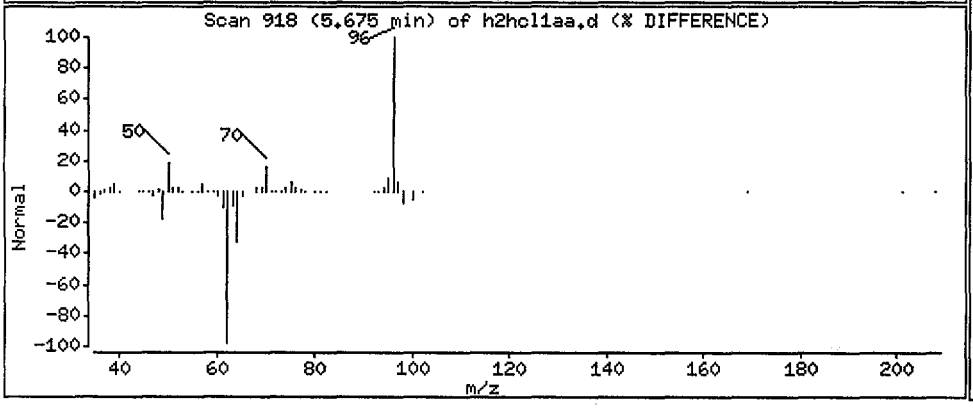












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

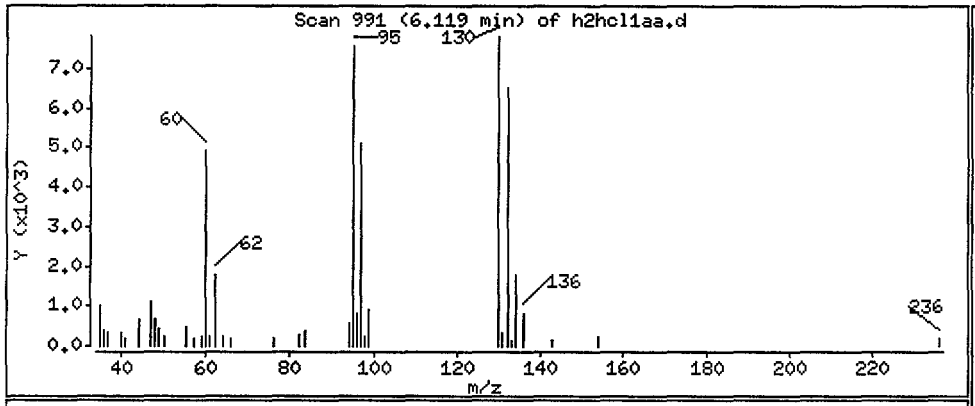
Operator: 22980

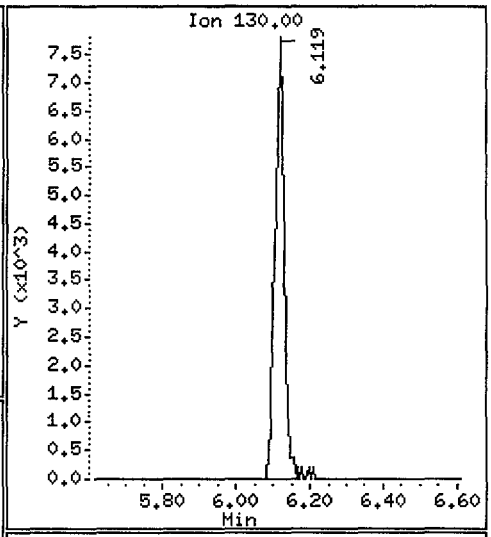
Column phase: J+W 624

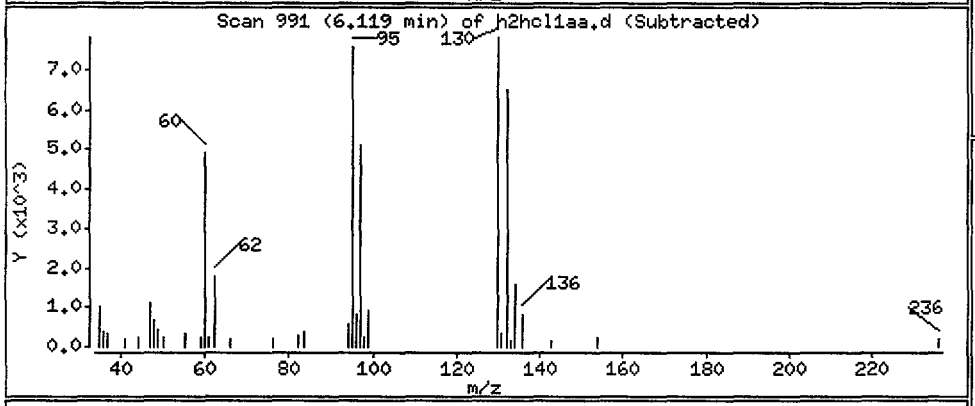
Column diameter: 0.18

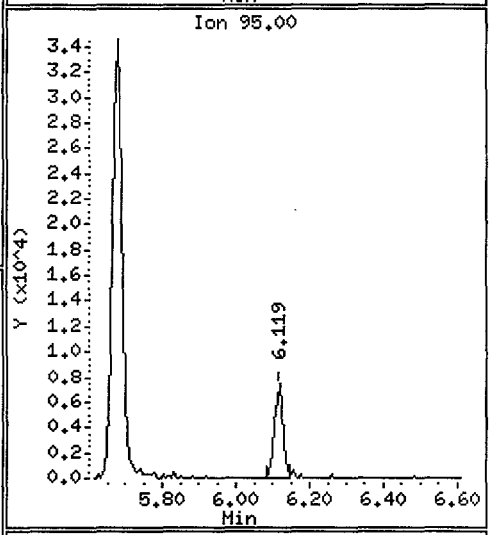
46 Trichloroethene

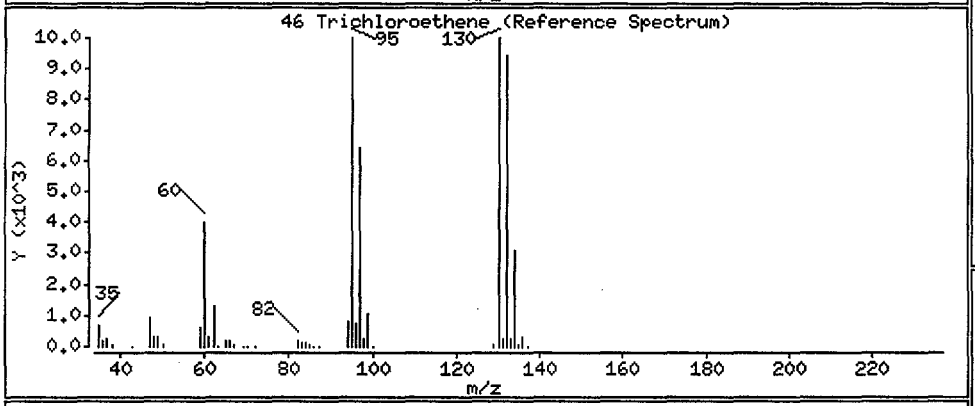
Concentration: 0.016074 ug

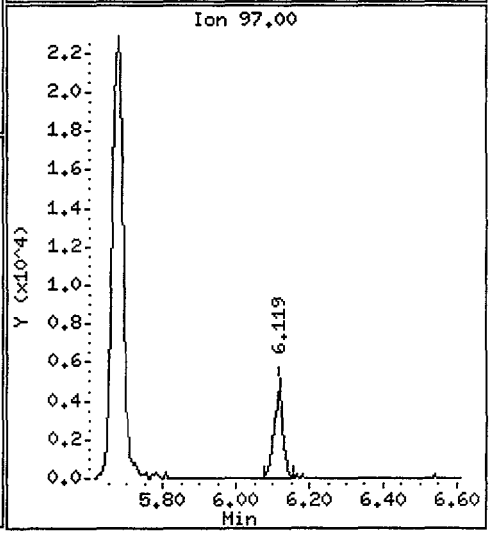


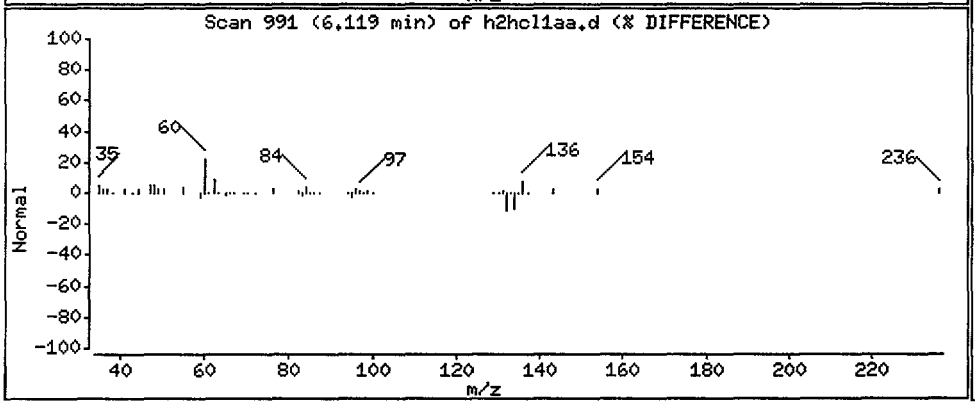












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

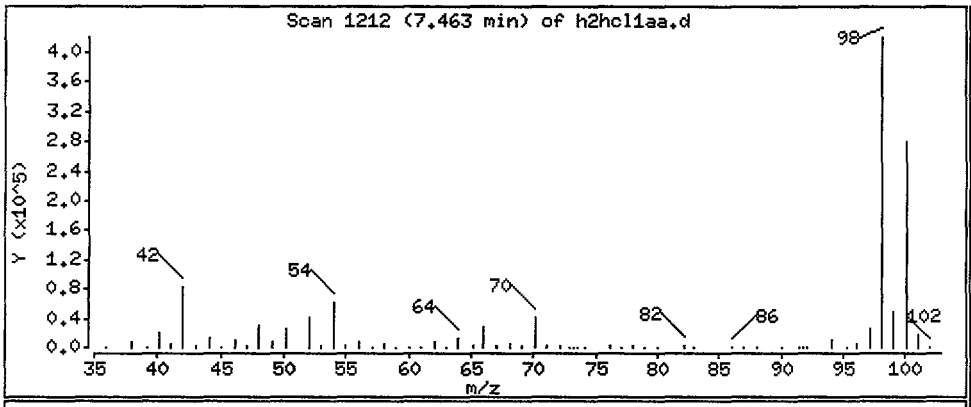
Operator: 22980

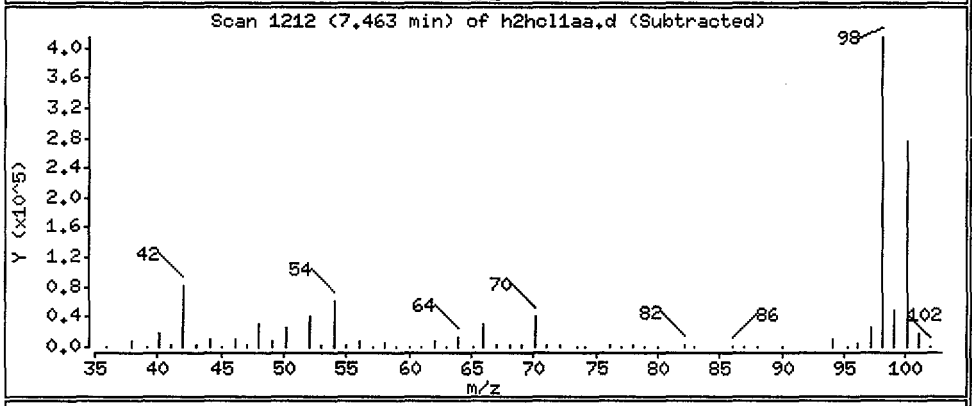
Column phase: J+W 624

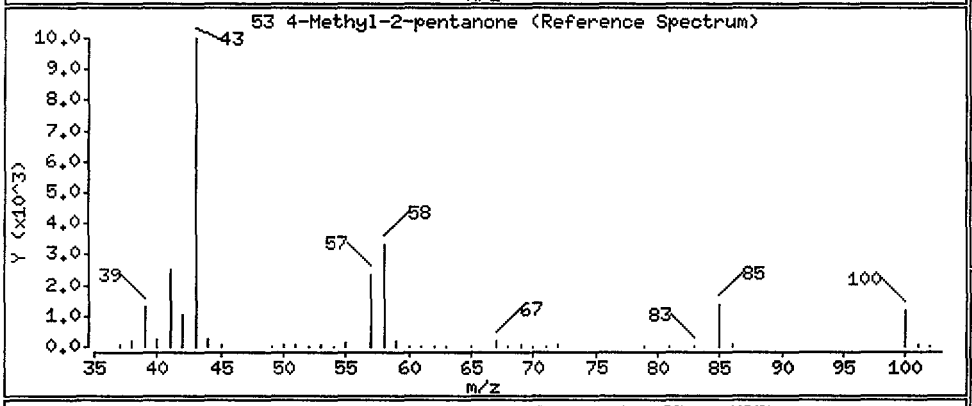
Column diameter: 0.18

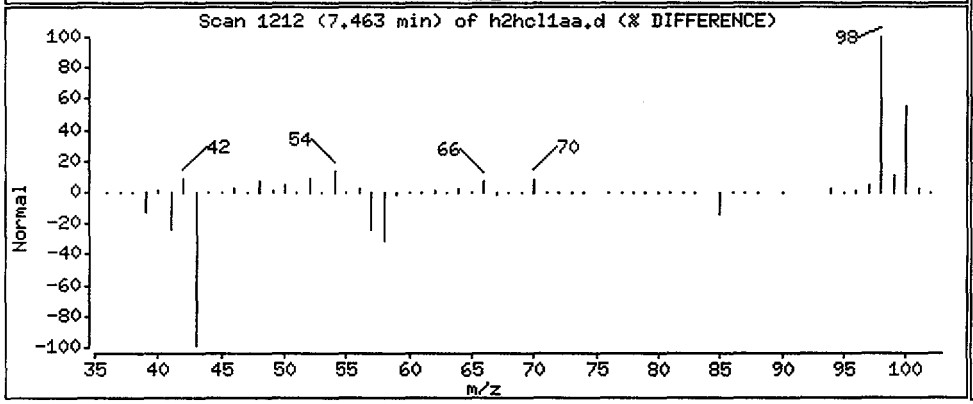
53 4-Methyl-2-pentanone

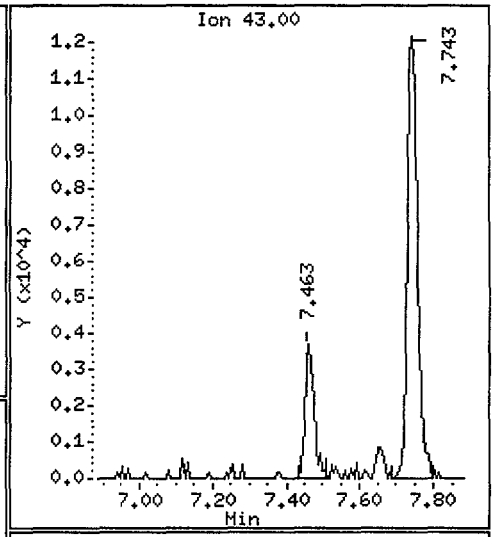
Concentration: 0.022645 ug

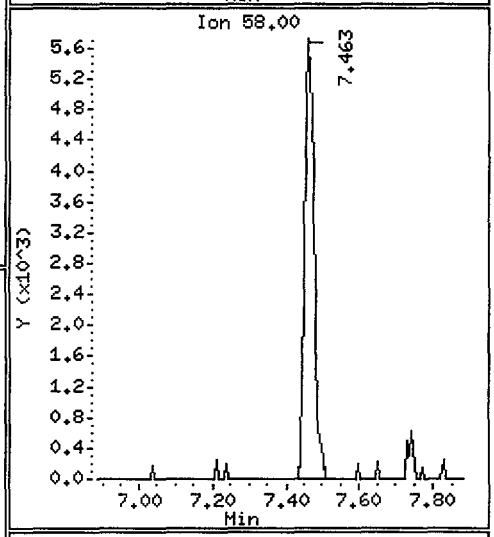


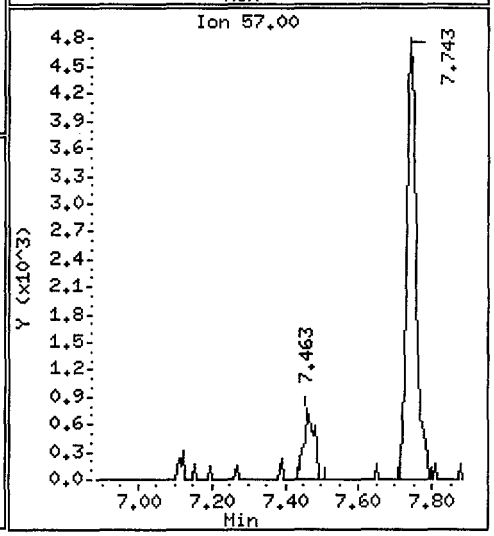












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

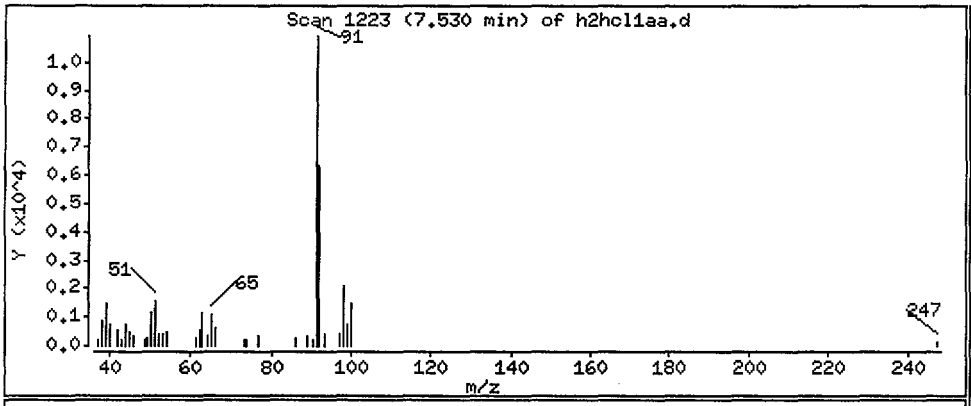
Operator: 22980

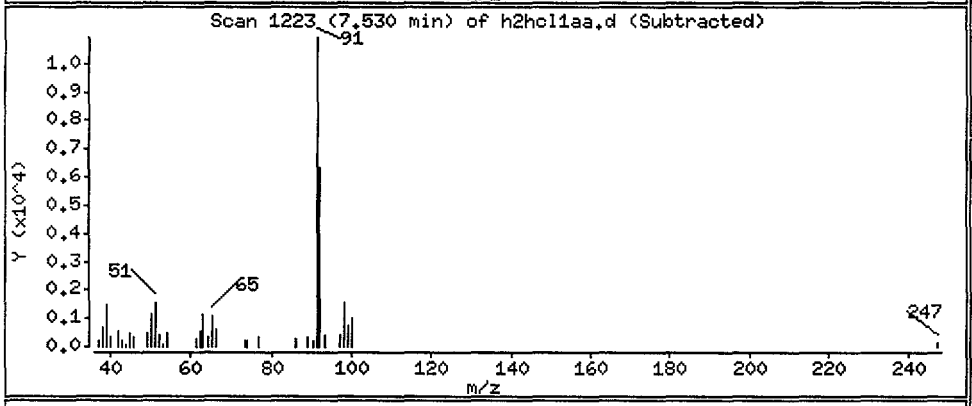
Column phase: J+W 624

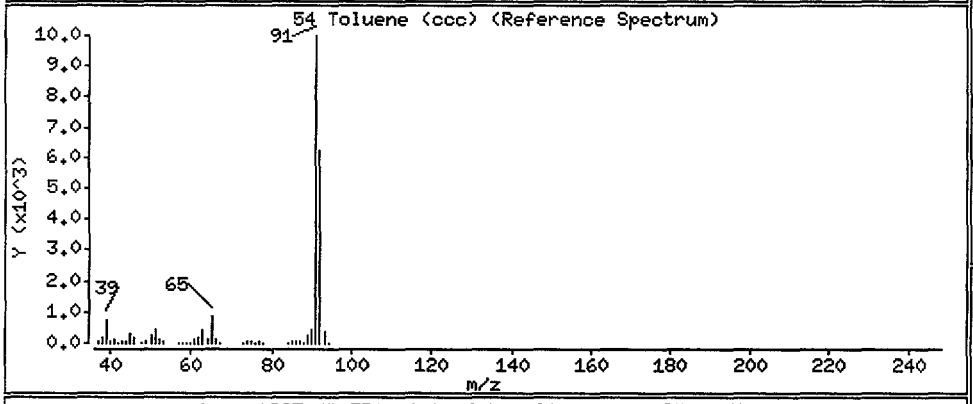
Column diameter: 0.18

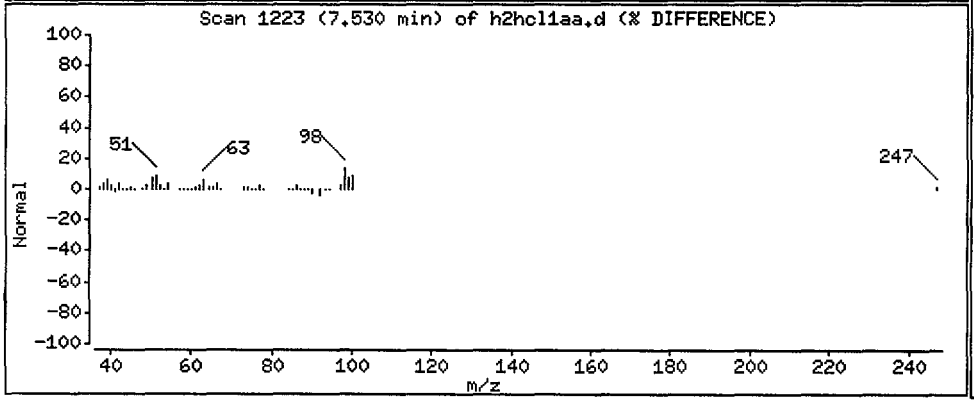
54 Toluene (ccc)

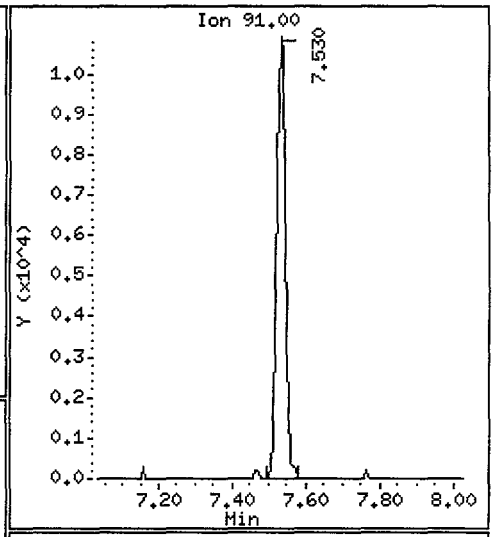
Concentration: 0.0043240 ug

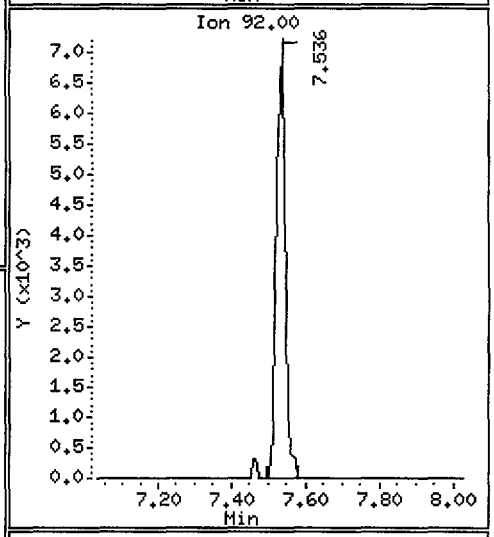


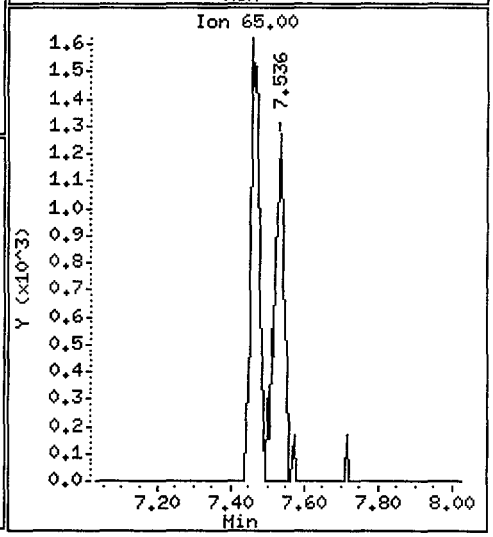












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

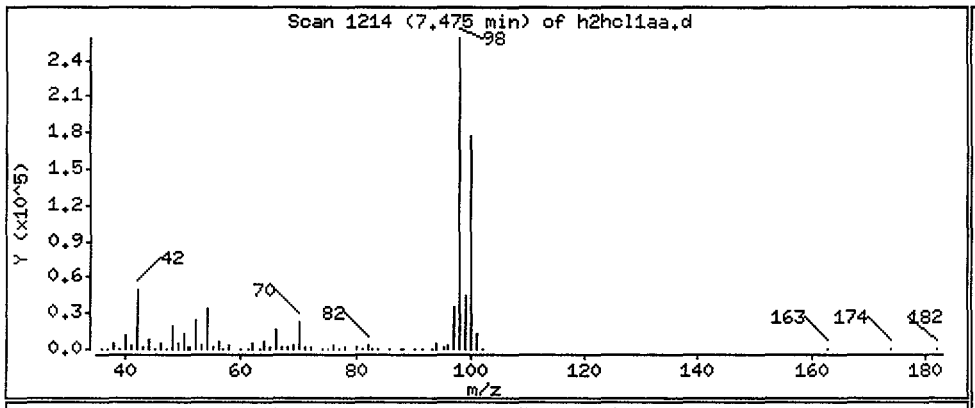
Operator: 22980

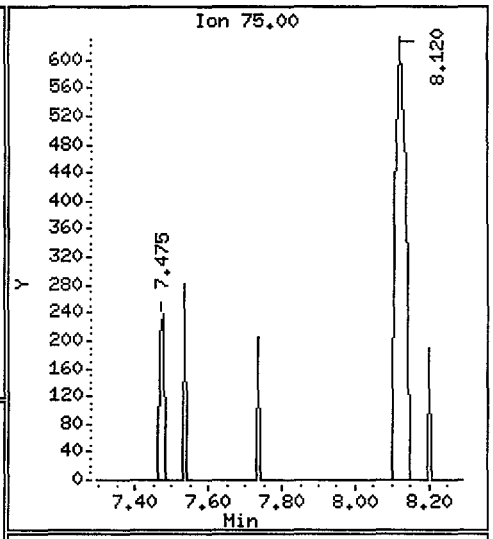
Column phase: J+W 624

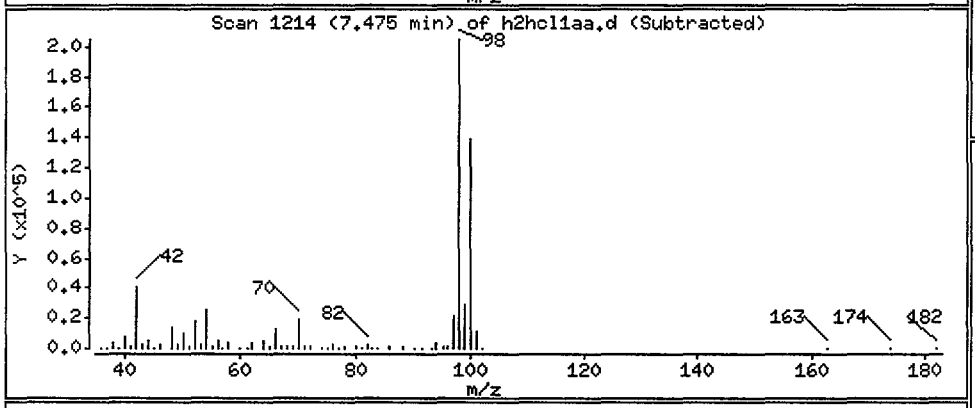
Column diameter: 0.18

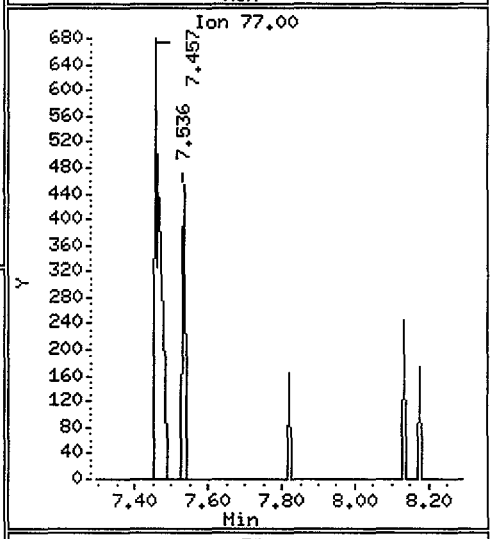
55 trans-1,3-Dichloropropene

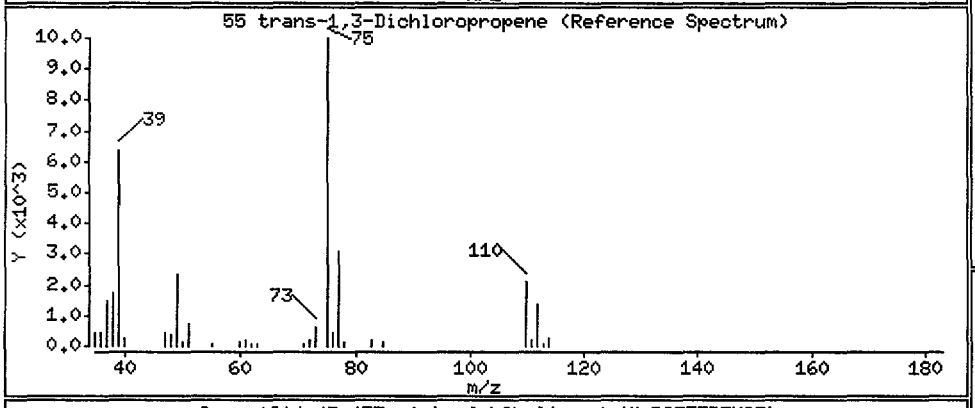
Concentration: 0.015887 ug

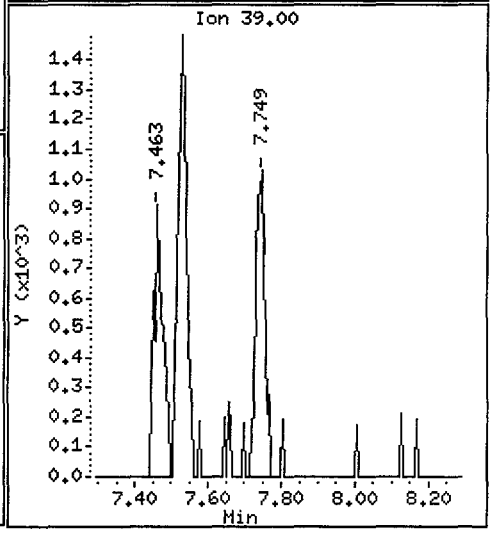


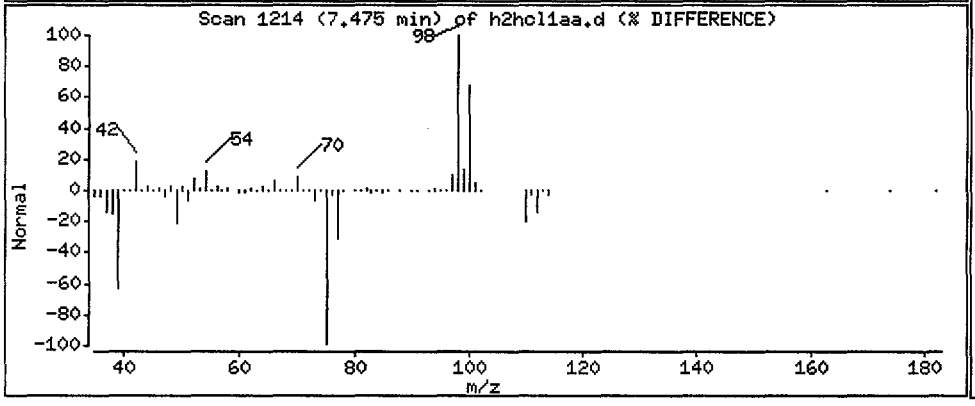












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

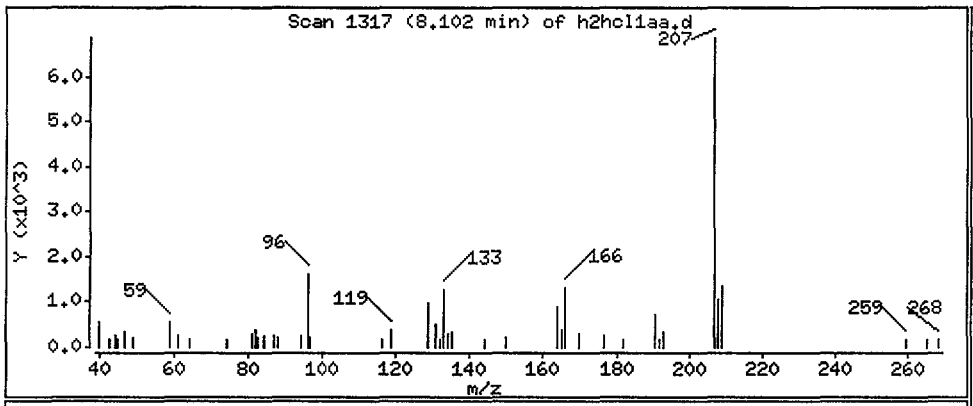
Operator: 22980

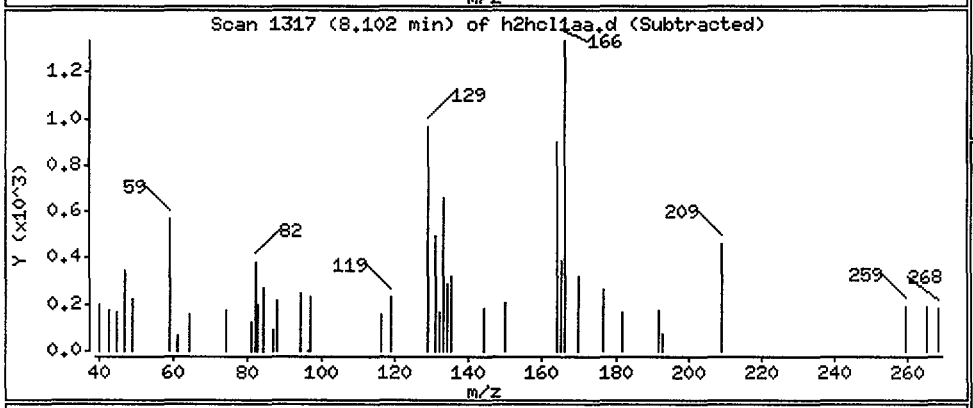
Column phase: J+W 624

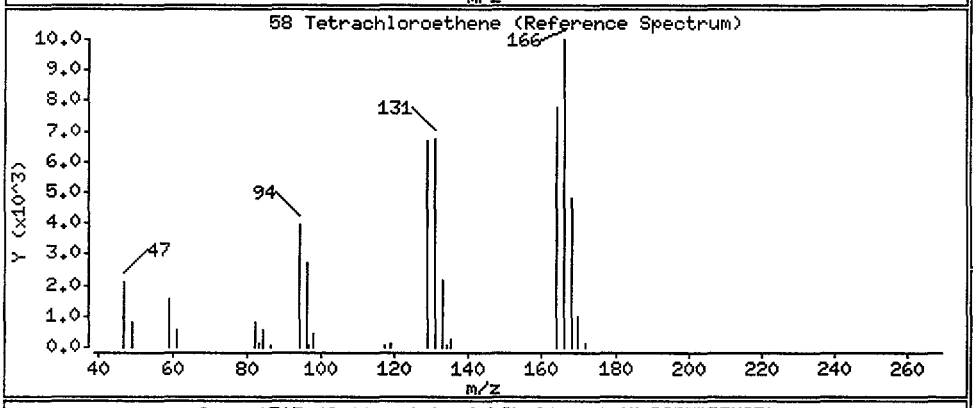
Column diameter: 0.18

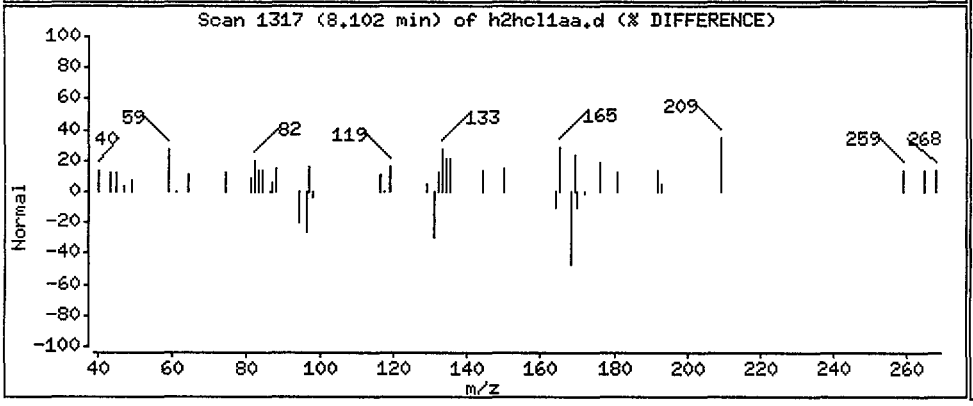
58 Tetrachloroethene

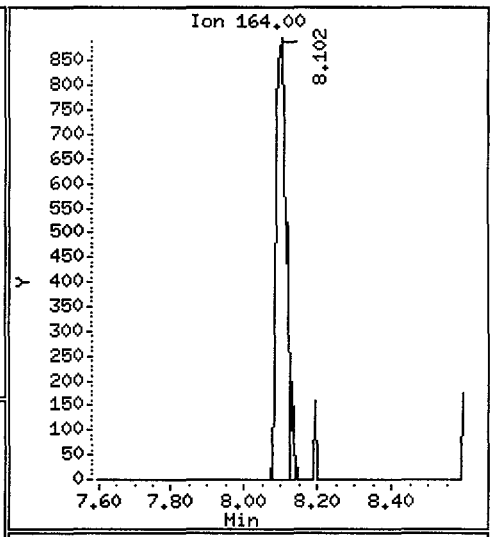
Concentration: 0.0020130 ug

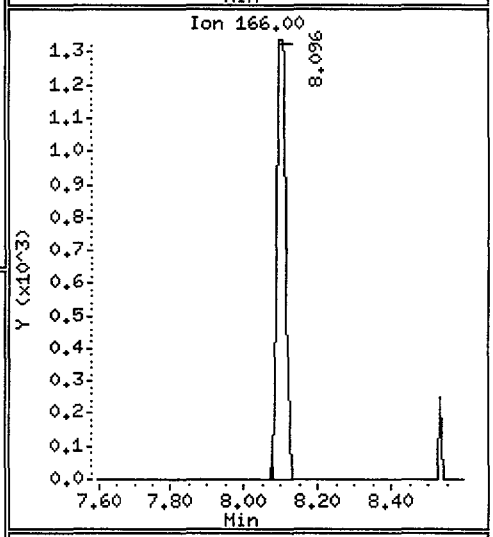


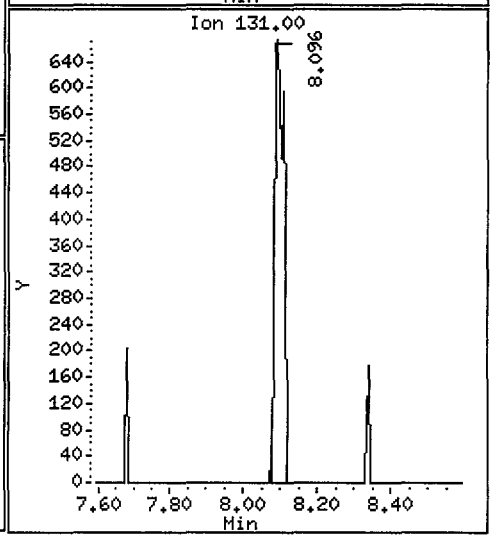












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

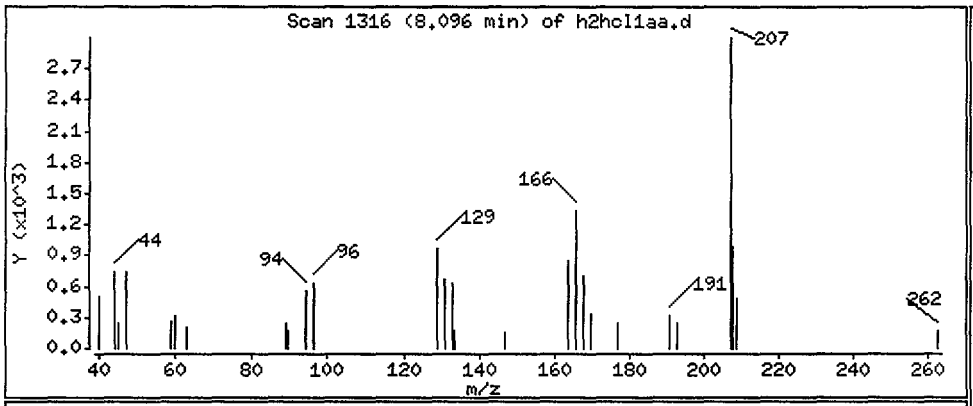
Operator: 22980

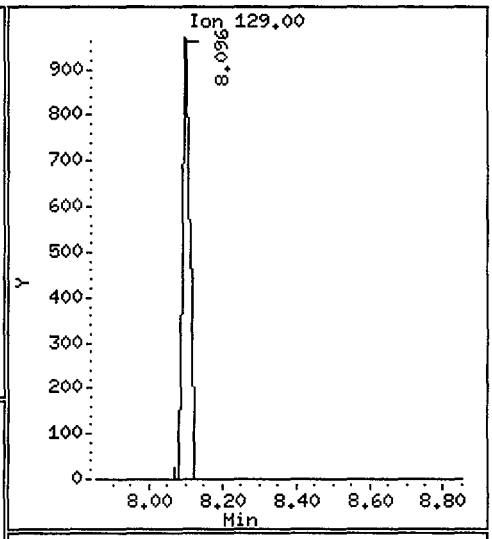
Column phase: J+W 624

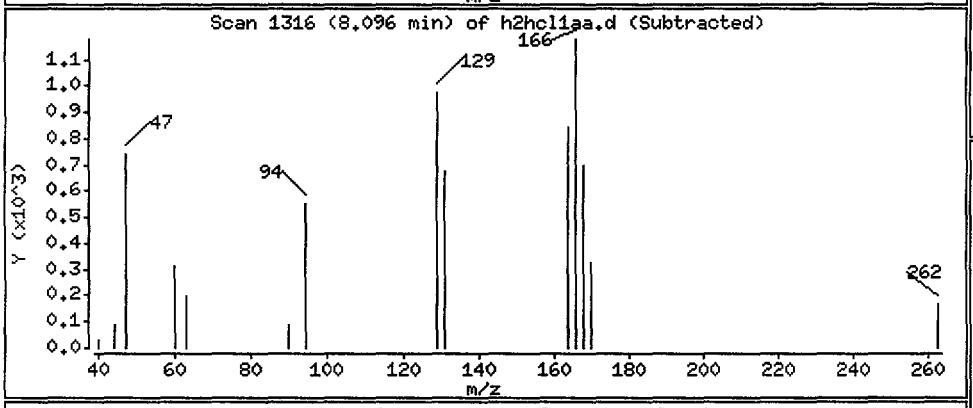
Column diameter: 0.18

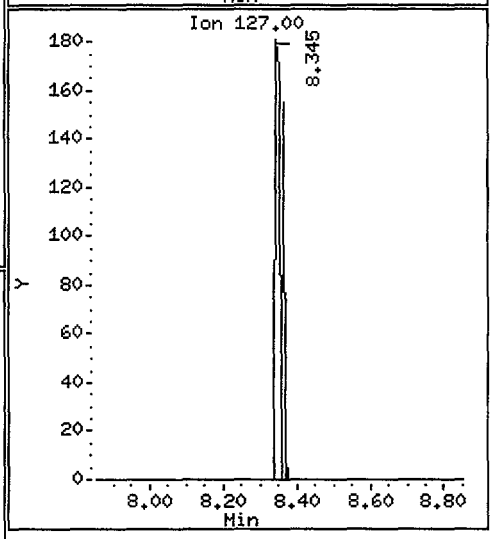
61 Chlorodibromomethane

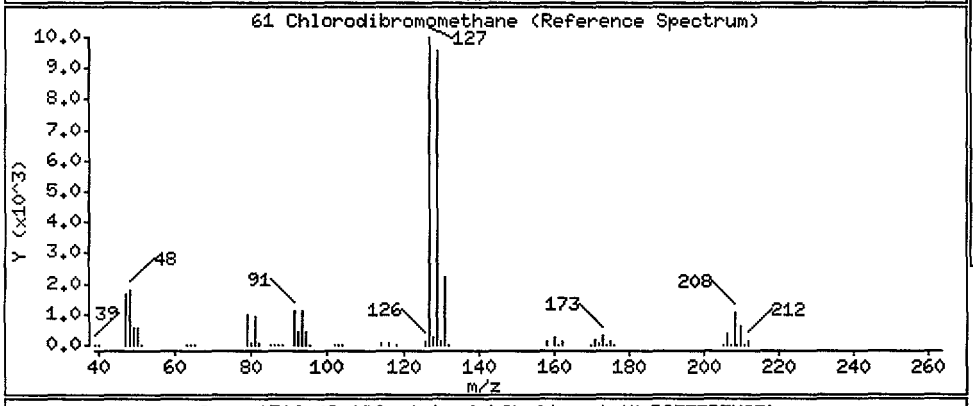
Concentration: 0.022929 ug

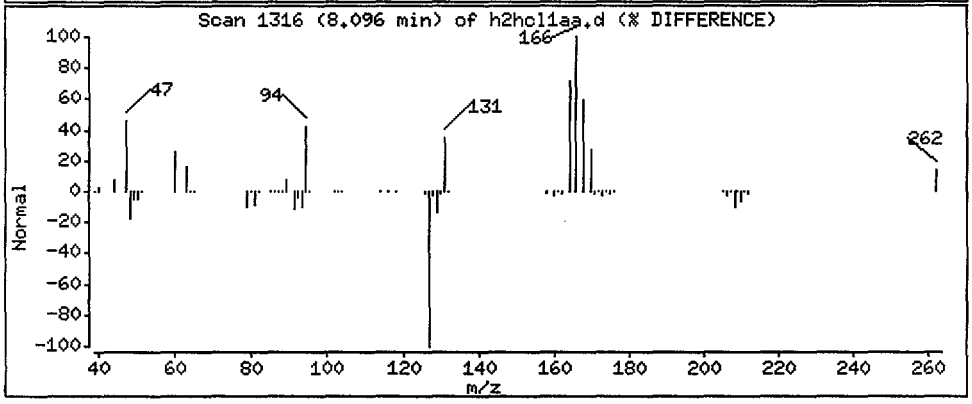












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

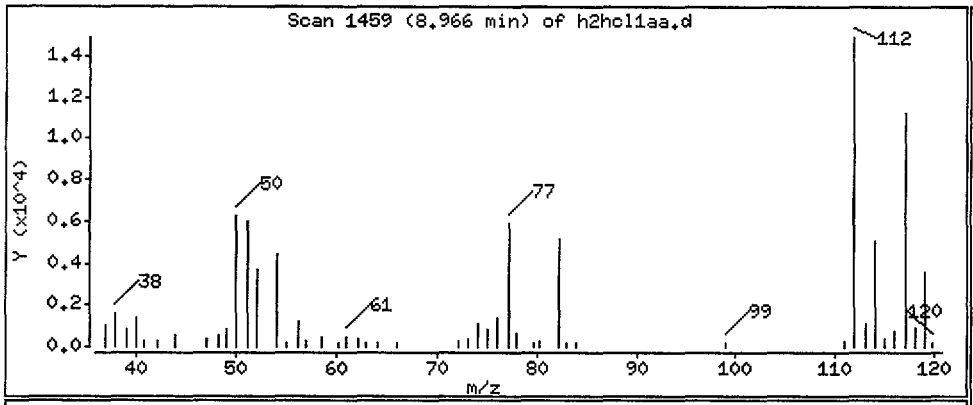
Operator: 22980

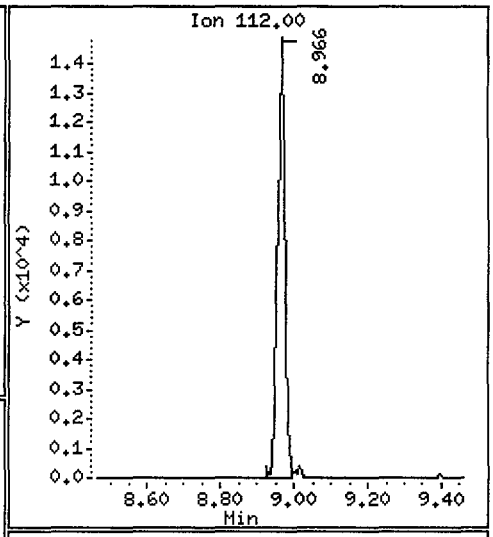
Column phase: J+W 624

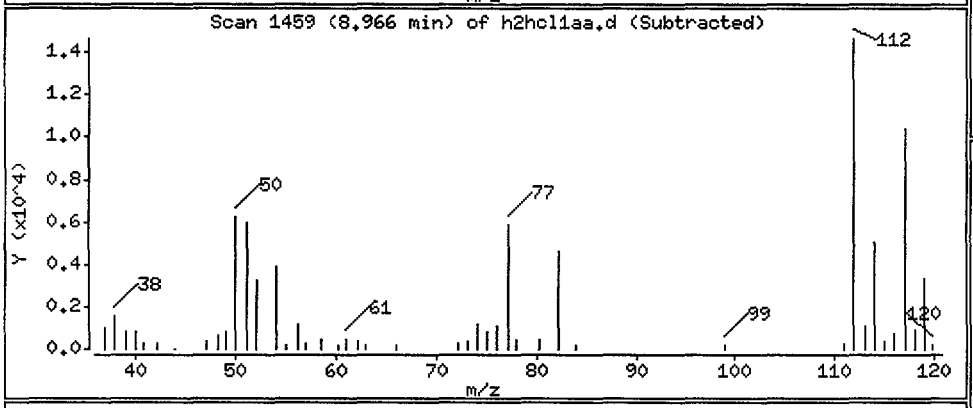
Column diameter: 0.18

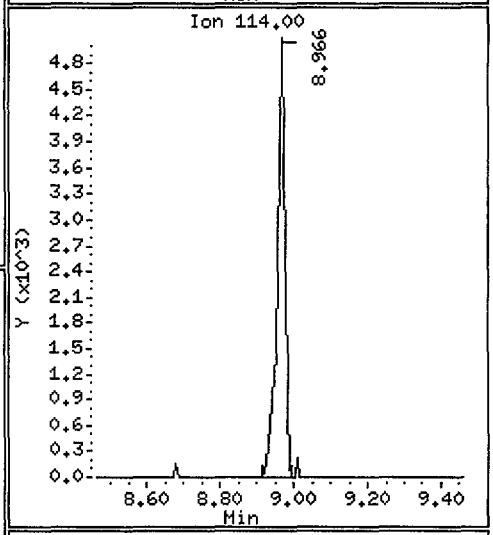
63 Chlorobenzene (spcc)

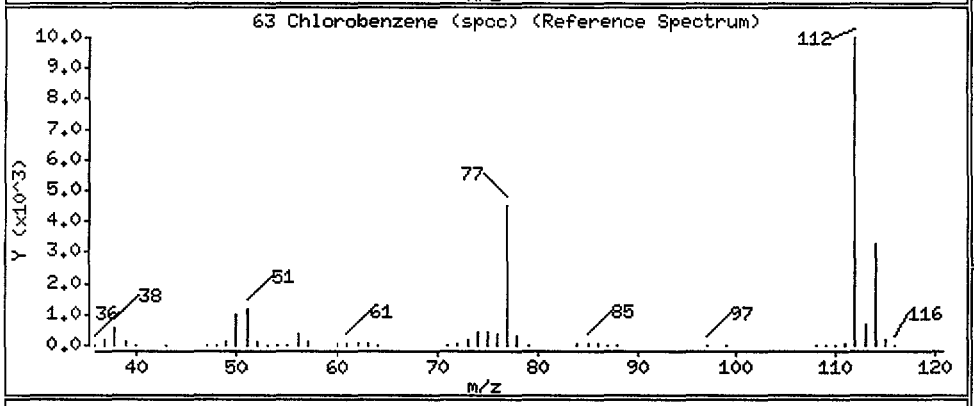
Concentration: 0.0090026 ug

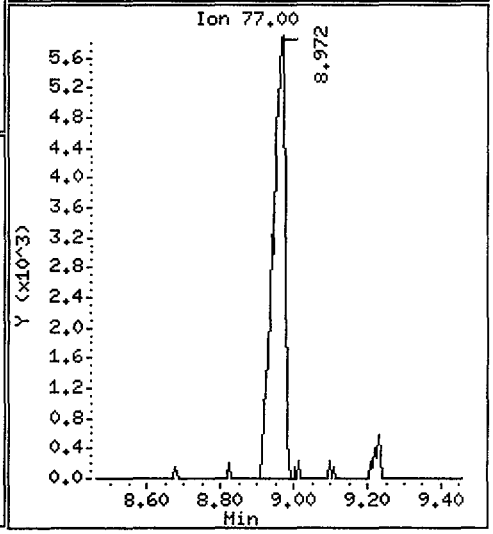


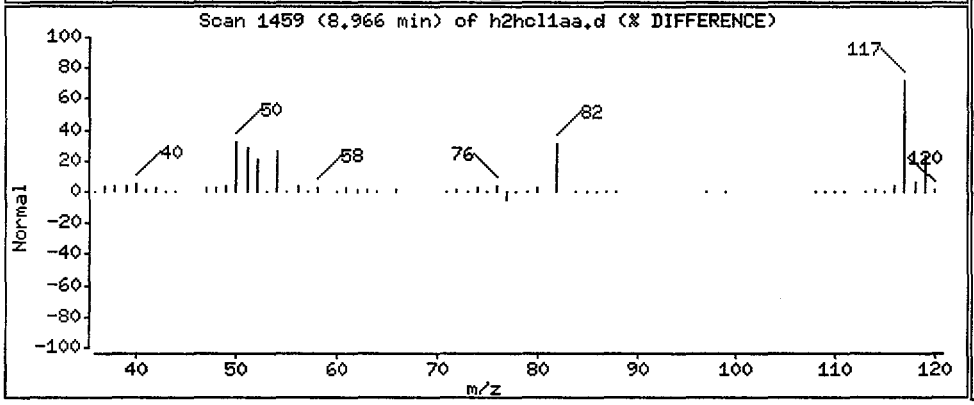












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

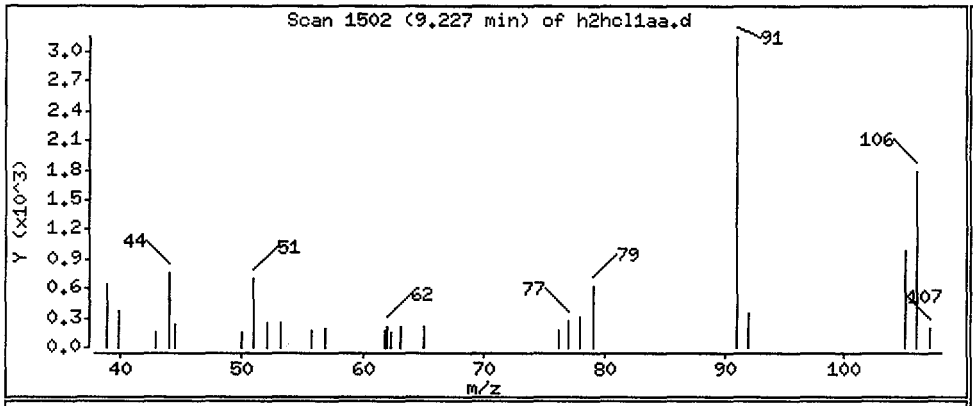
Operator: 22980

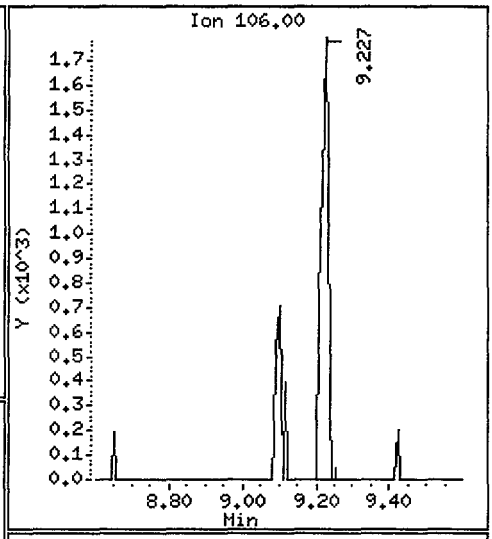
Column phase: J+W 624

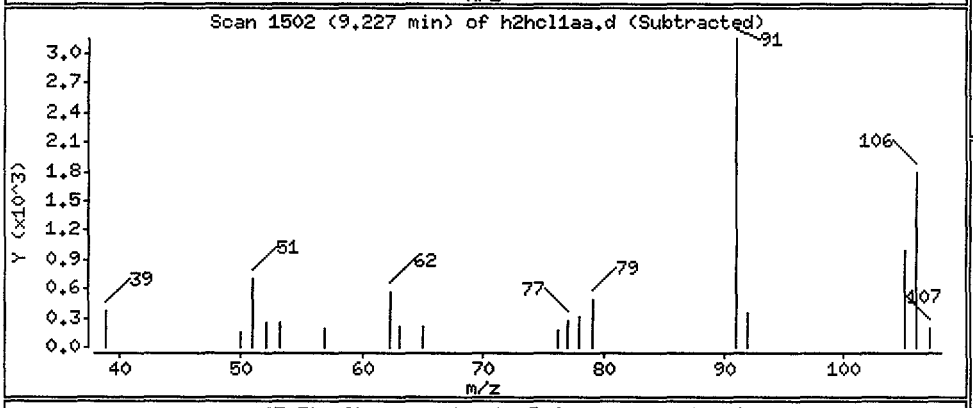
Column diameter: 0.18

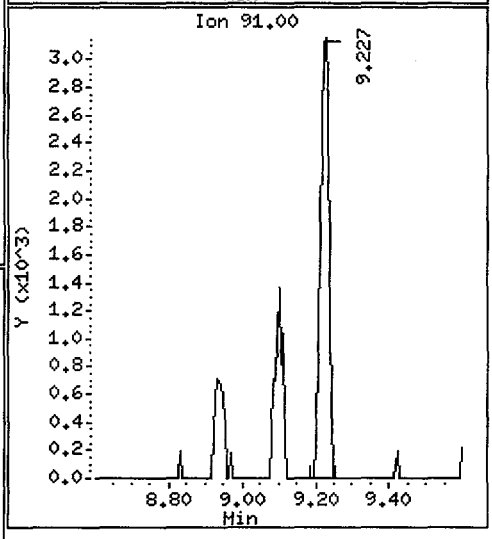
65 Ethylbenzene (ccc)

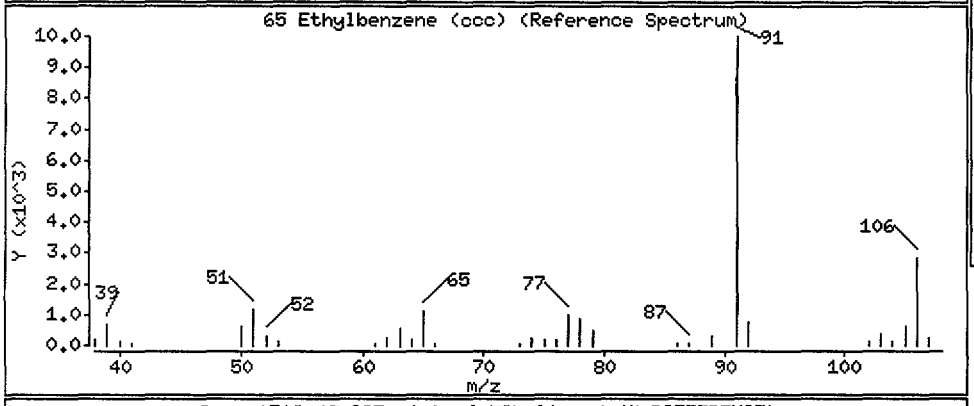
Concentration: 0.0016599 ug

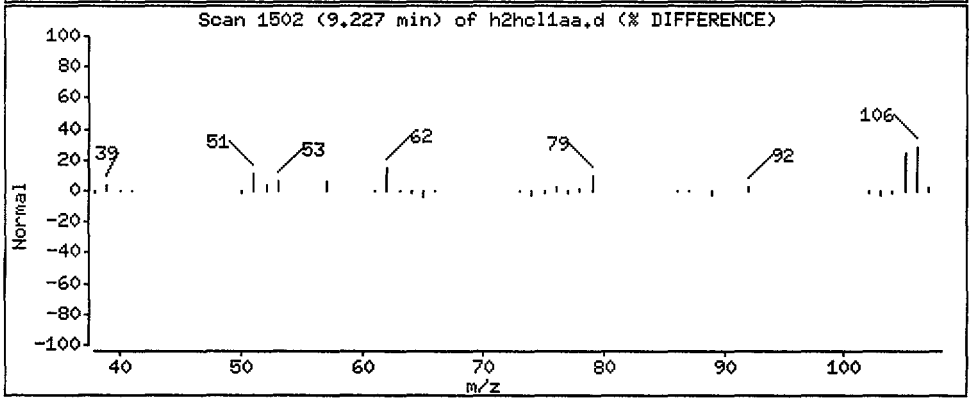












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

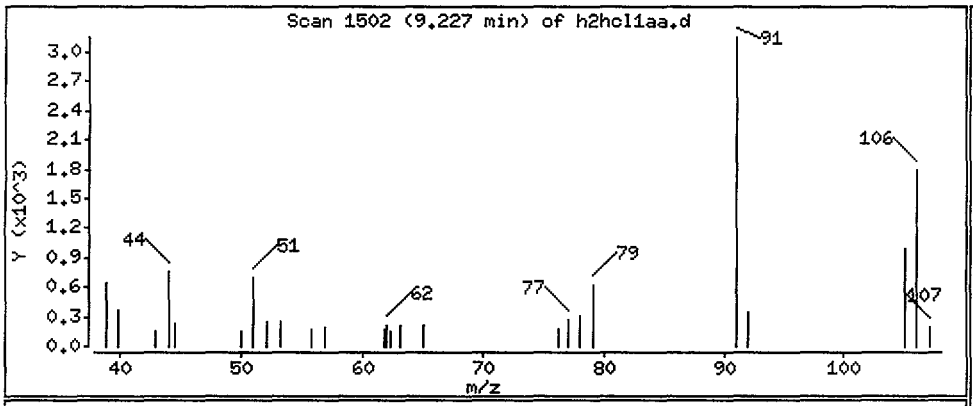
Operator: 22980

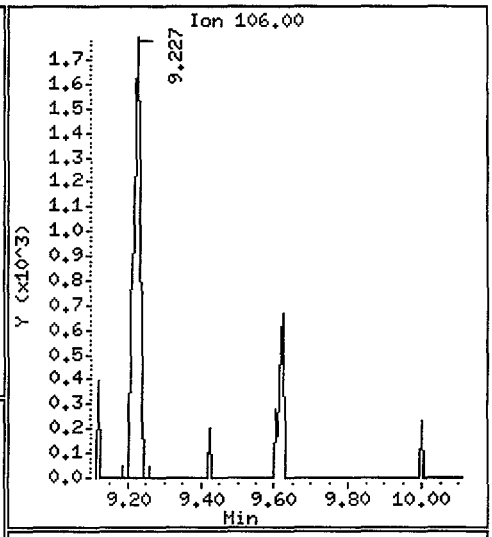
Column phase: J+W 624

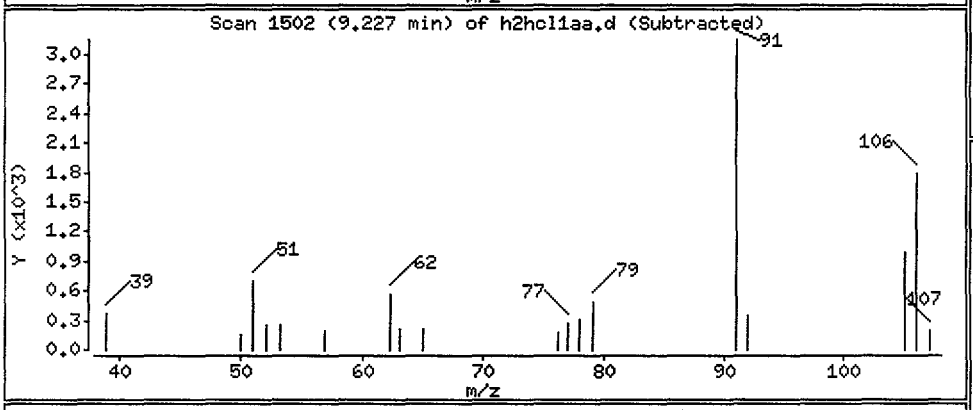
Column diameter: 0.18

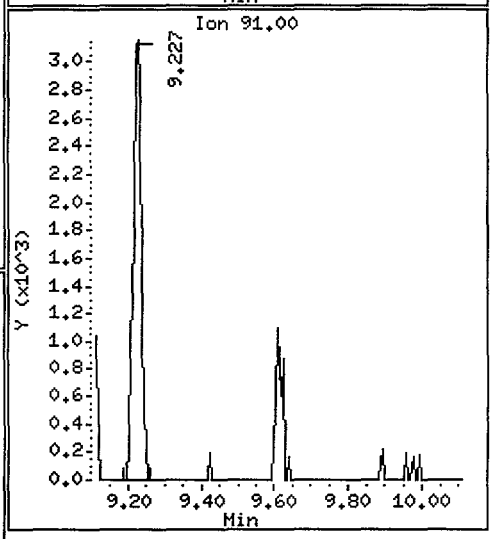
67 o-Xylene

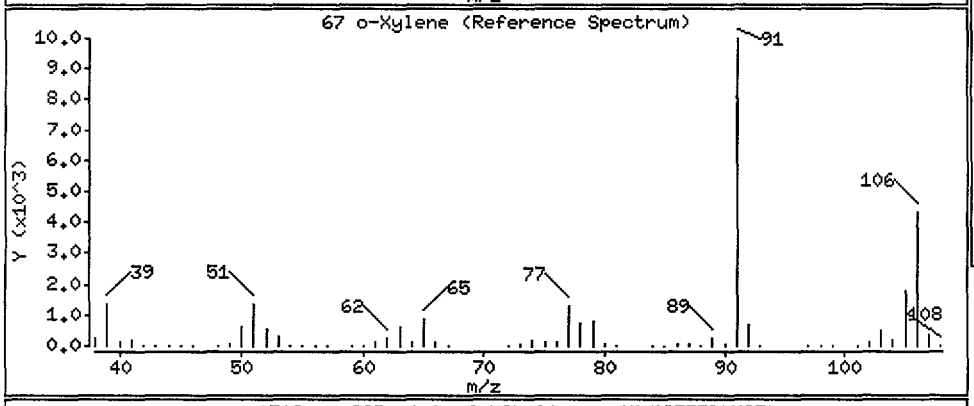
Concentration: 0.0015545 ug

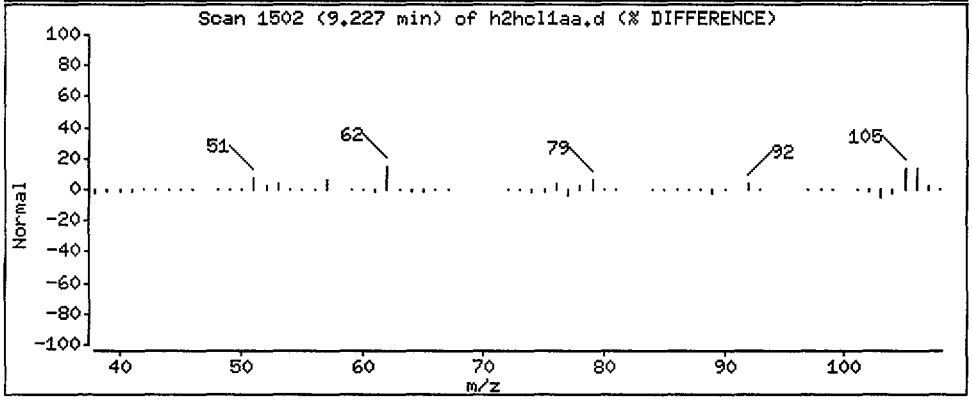












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

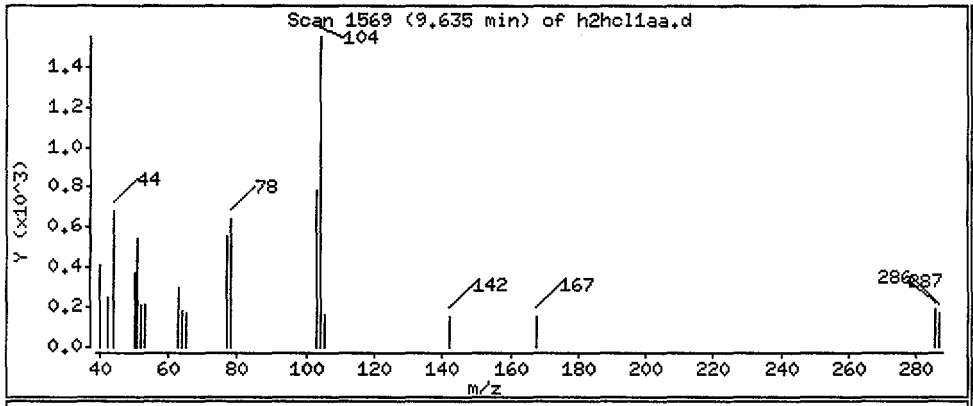
Operator: 22980

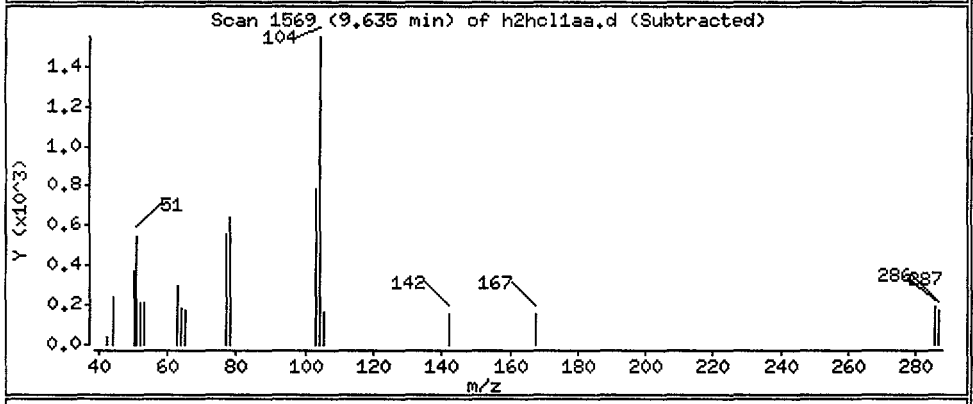
Column phase: J+W 624

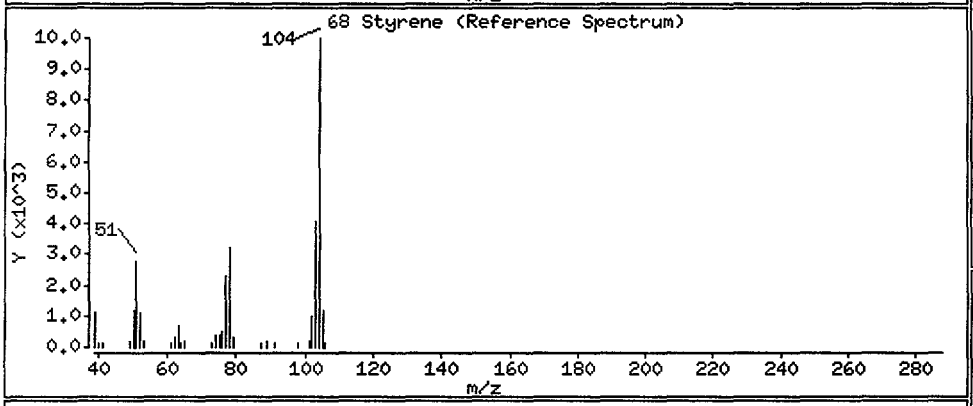
Column diameter: 0.18

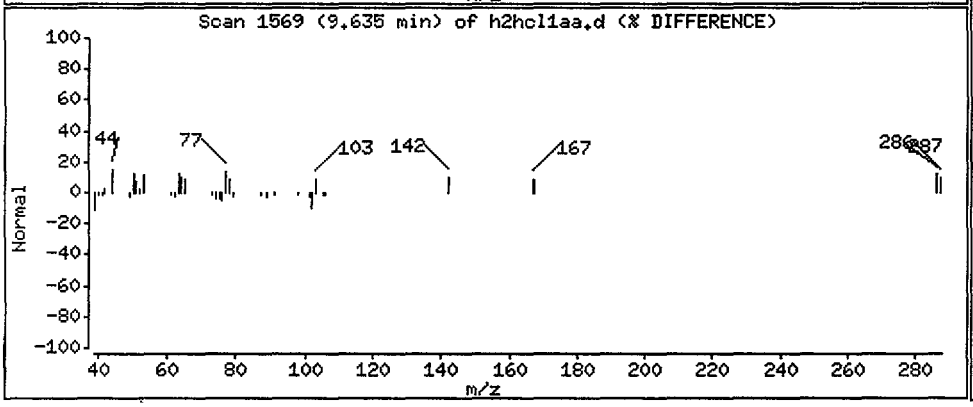
68 Styrene

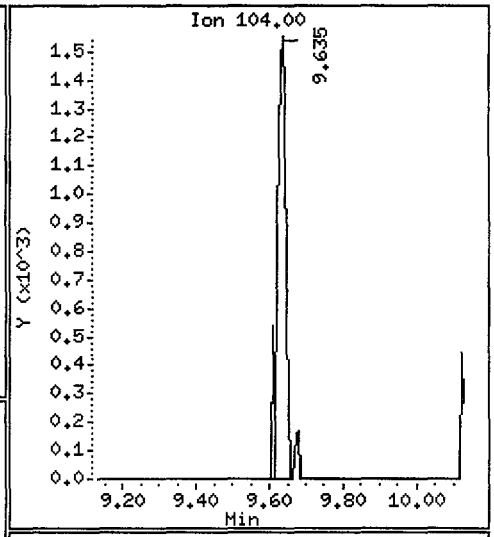
Concentration: 0.0011238 ug

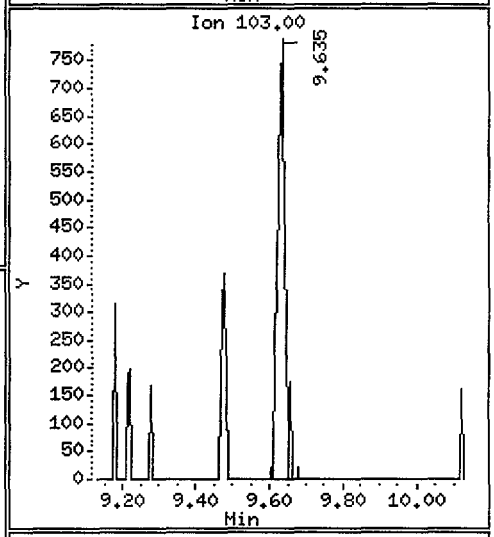


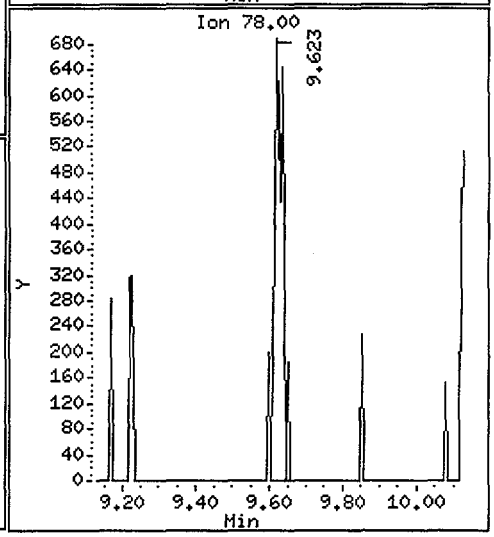












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

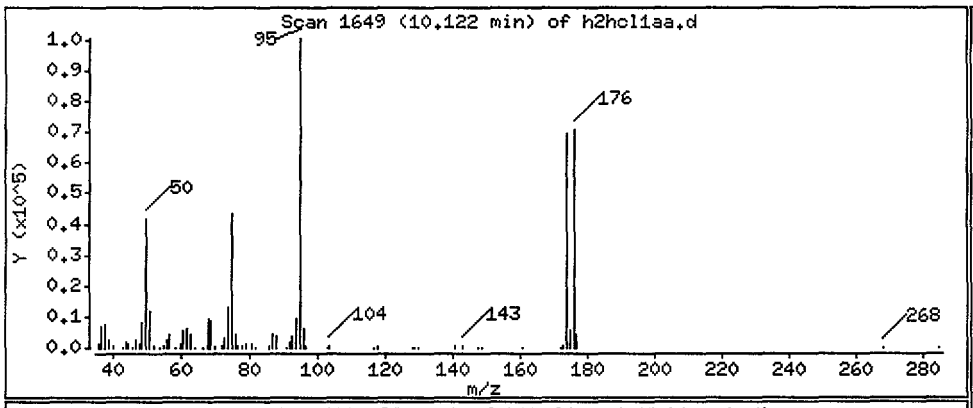
Operator: 22980

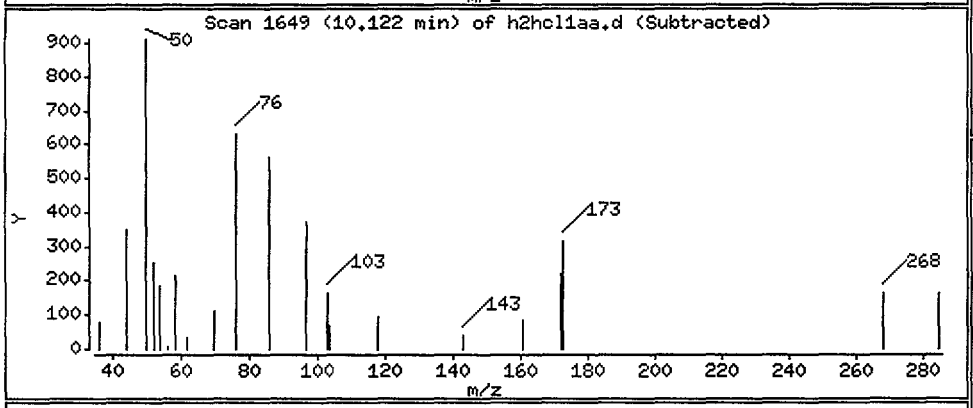
Column phase: J+W 624

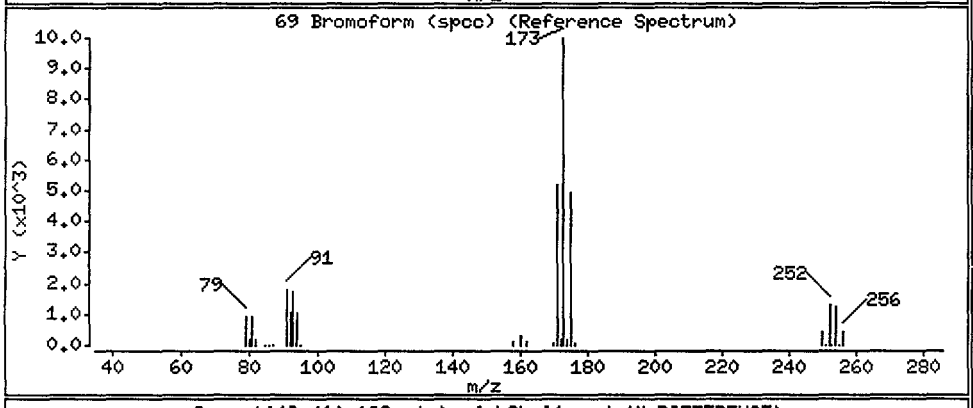
Column diameter: 0.18

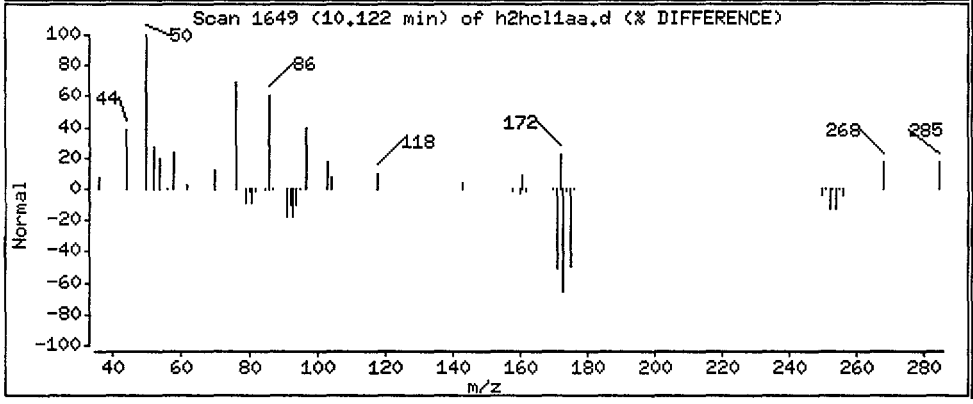
69 Bromoform (spcc)

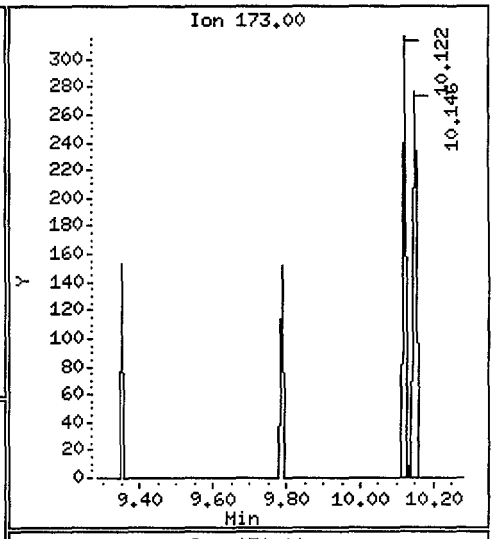
Concentration: 0.021594 ug

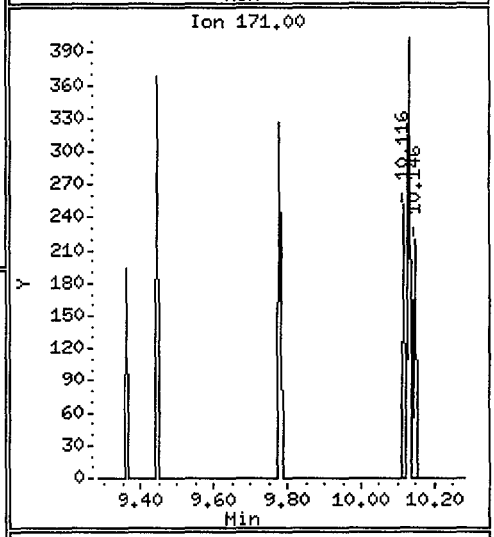


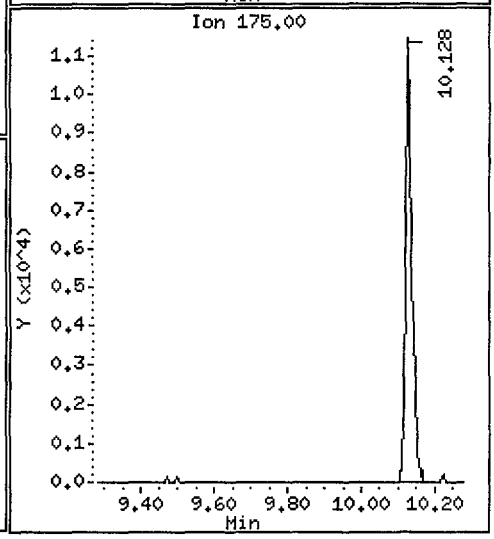












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

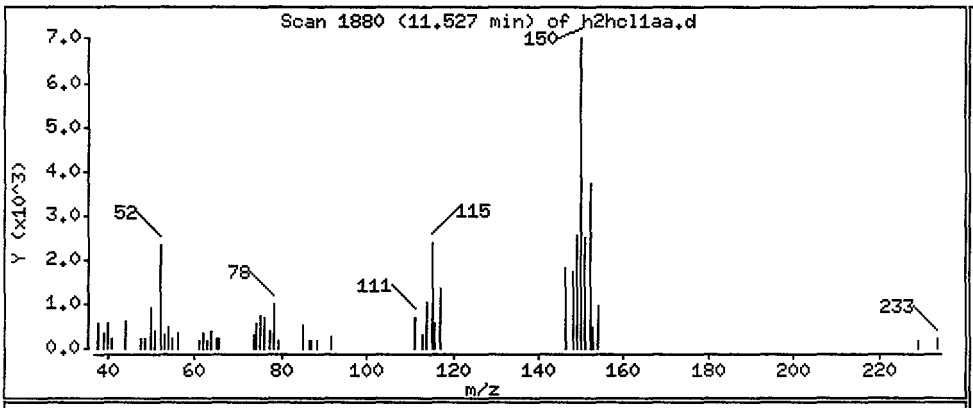
Operator: 22980

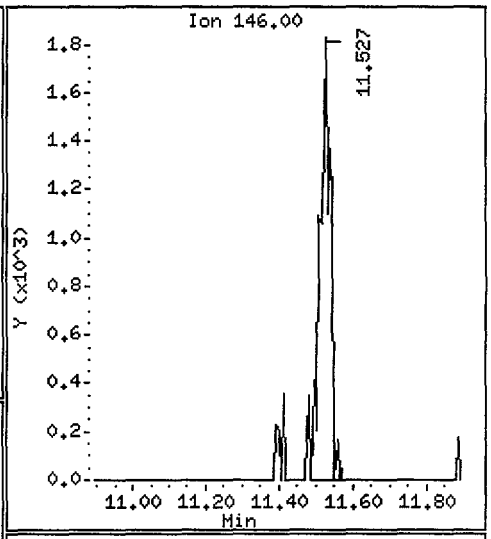
Column phase: J+W 624

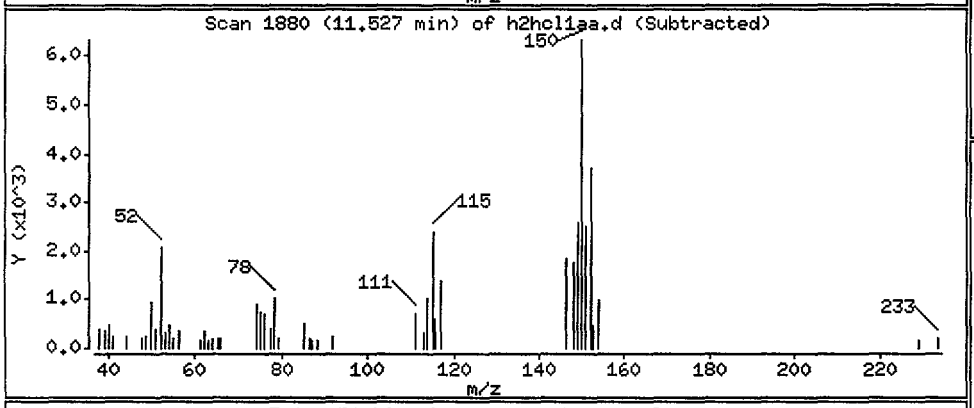
Column diameter: 0.18

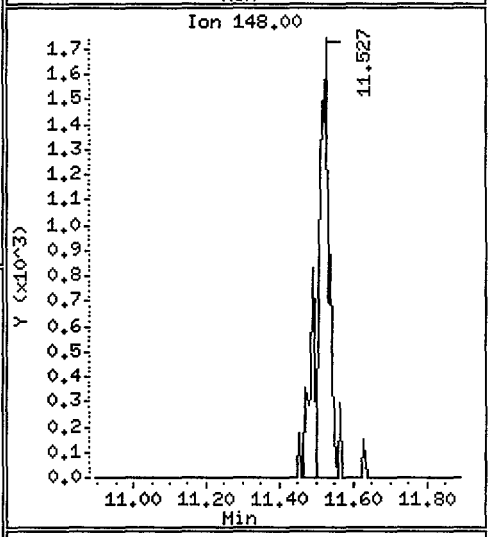
83 1,3-Dichlorobenzene

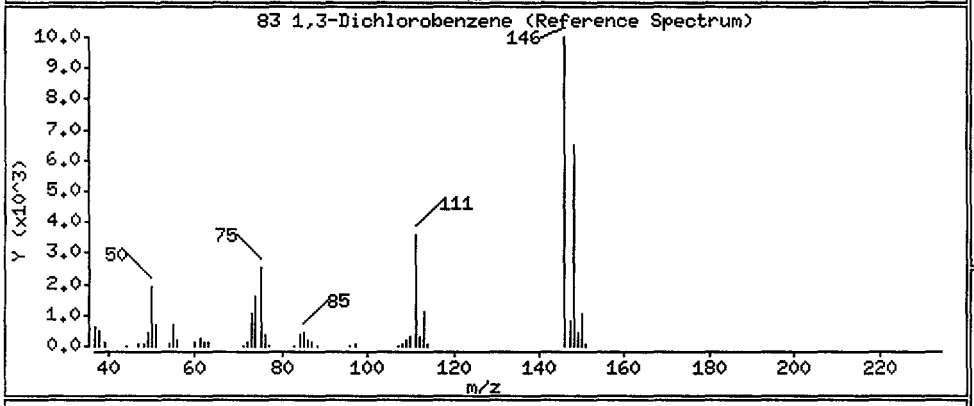
Concentration: 0.0022721 ug

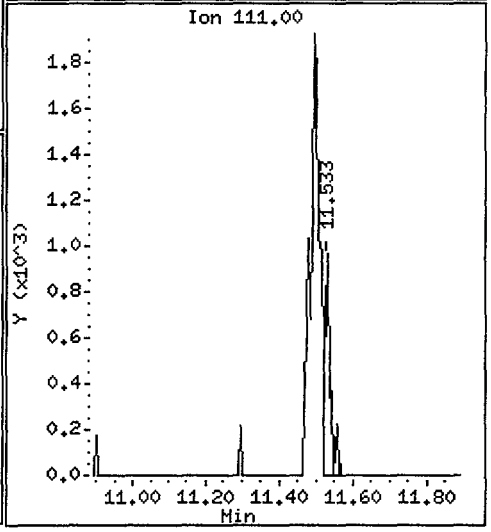


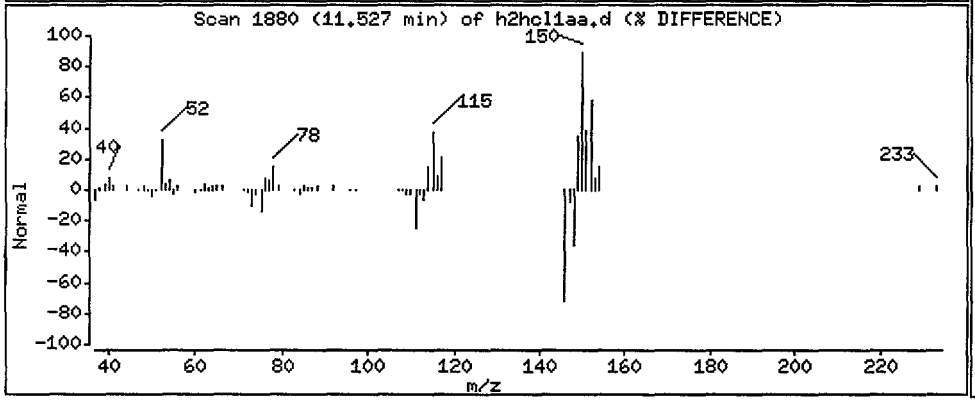












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

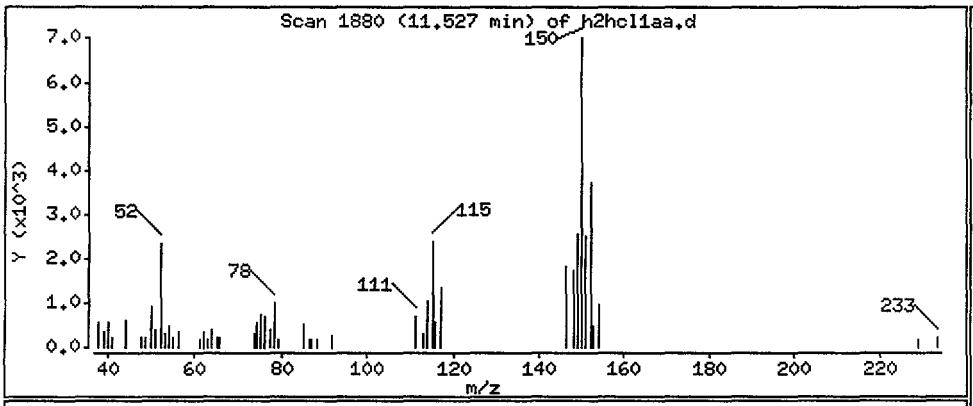
Operator: 22980

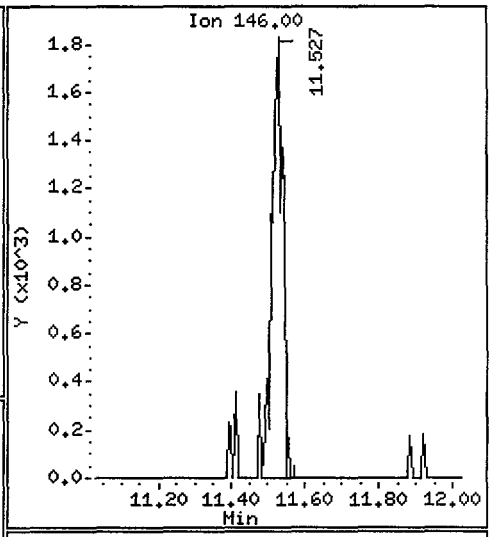
Column phase: J+W 624

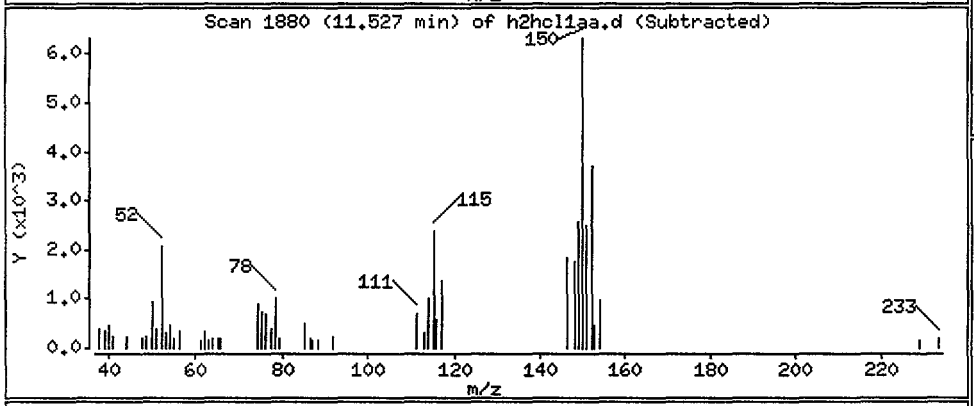
Column diameter: 0.18

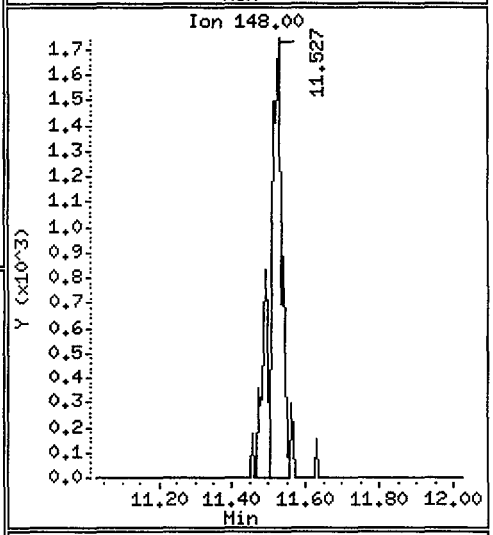
85 1,4-Dichlorobenzene

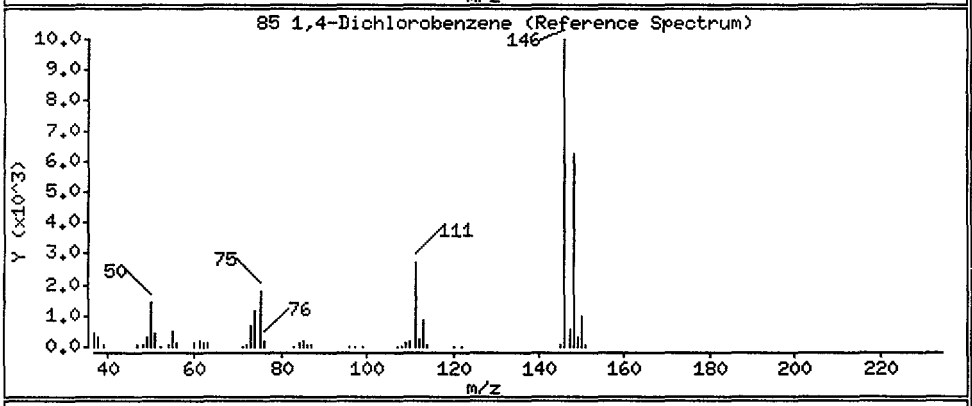
Concentration: 0.0024426 ug

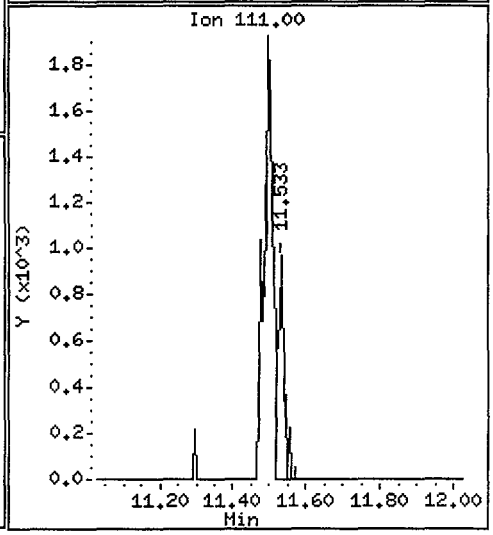


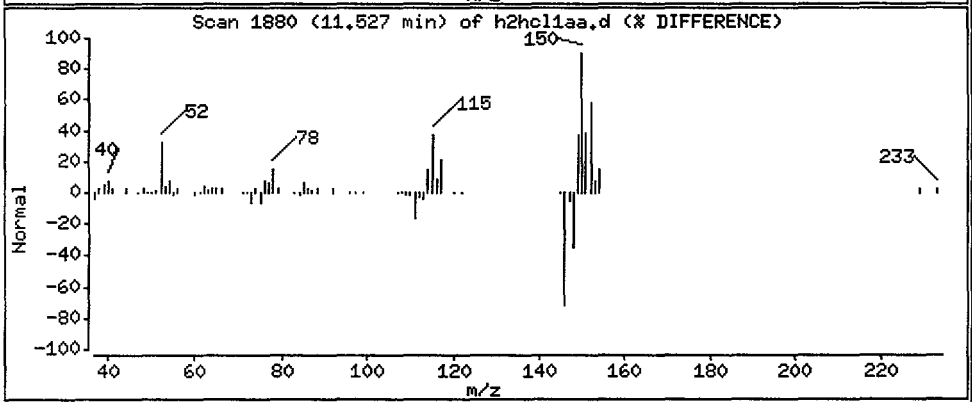












Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcl1aa.d
Report Date: 14-Apr-2006 17:02

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2hcl1aa.d
Lab Smp Id: H2HCL1AA Client Smp ID: G-3092-R3-VOST PAIR
Inj Date : 07-APR-2006 15:33
Operator : 22980 Inst ID: mz.i
Smp Info : H2HCL1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 3 1,4 Dichlorobenzene-d4	11.496	802225	10.000

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug)	QUAL	LIBRARY	LIB ENTRY	CPND #
Cyclotetrasiloxane, octamethyl-					CAS #: 556-67-2		
10.499	84684	1.05561407	0.026390	91	NIST05.1	122479	3

JW 4-14-06

Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

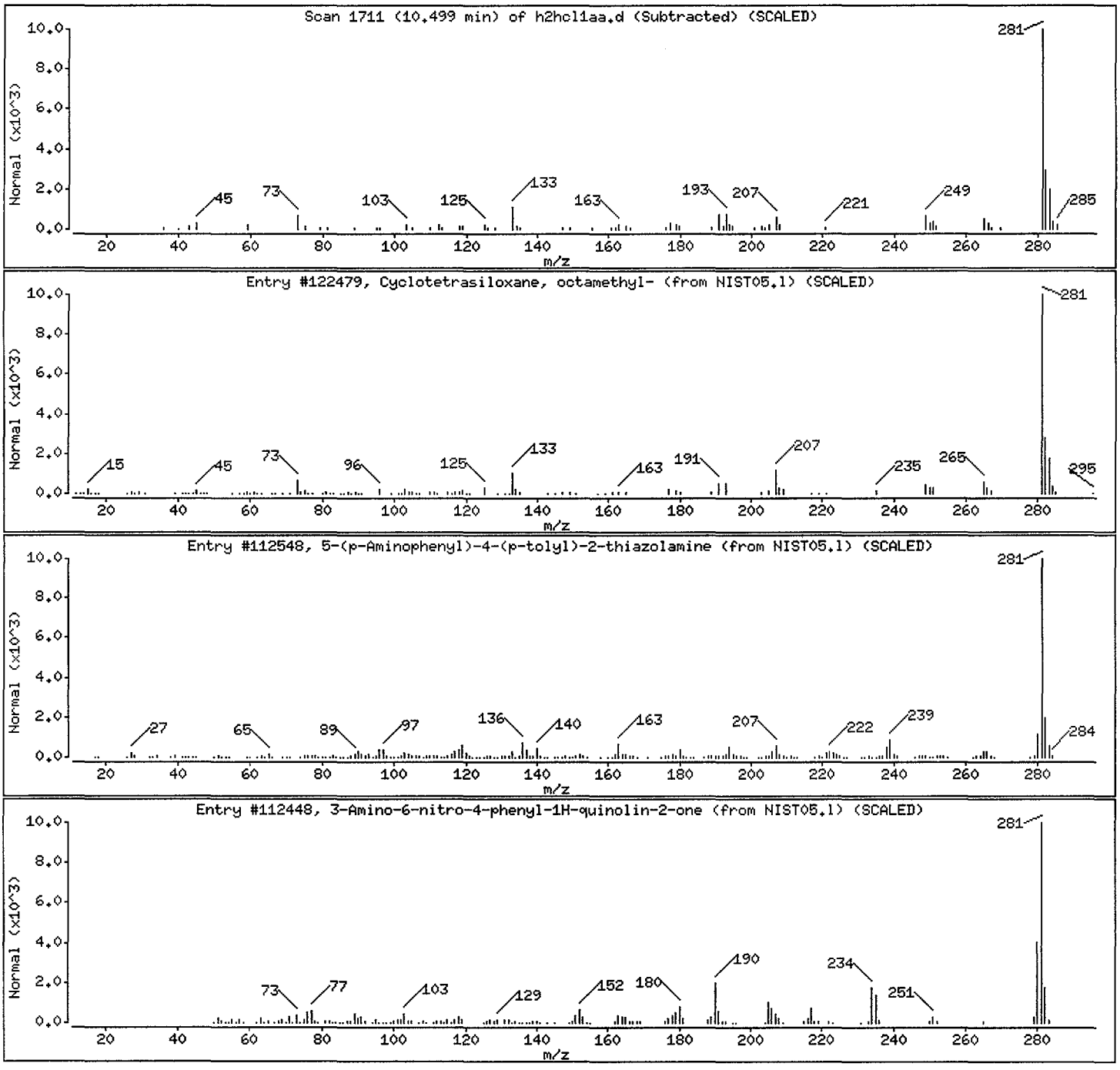
Sample Info: H2HCL1AA,1,0,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotetrasiloxane, octamethyl-	556-67-2	NIST05.l	122479	91	C8H24O4Si4	296
5-(p-Aminophenyl)-4-(p-tolyl)-2-thiazola	94460-46-5	NIST05.l	112548	53	C16H15N3S	281
3-Amino-6-nitro-4-phenyl-1H-quinolin-2-o	36020-93-6	NIST05.l	112448	47	C15H11N3O3	281



STL Knoxville - ACS

Client Sample ID: G-3093-R3-VOST PAIR #3 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-027 **Work Order #...:** H2HCM1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.54**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.0054 J**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	**0.036**	**0.010**	**ug**	**0.0016**
Bromoform	**0.15**	**0.025**	**ug**	**0.0066**
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0096 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.0031 J**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**3.1 E**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	**0.10**	**0.025**	**ug**	**0.010**
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.020**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3093-R3-VOST PAIR #3 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-027 **Work Order #...:** H2HCM1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.090**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	**0.16**	**0.025**	**ug**	**0.010**
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**1.1**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.12**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	**0.0061 J**	**0.020**	**ug**	**0.0034**
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	**0.0061 J**	**0.030**	**ug**	**0.0048**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	75	(50 - 134)
1,2-Dichloroethane-d4	77	(50 - 134)
Toluene-d8	77	(57 - 127)
Bromofluorobenzene	63	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

STL Knoxville - ACS

G-3093-R3-VOST PAIR #3 TENAX

GC/MS Volatiles

Lot-Sample #: H6D030169-027 **Work Order #:** H2HCM1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Benzaldehyde	100-52-7	0.063 NJ M	10.089	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d
Report Date: 07-Apr-2006 15:26

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /chem/gcms/mx.i/X040706.b/h2hcm1aa.d
Lab Smp Id: H2HCM1AA Client Smp ID: G-3093-R3-VOST PAIR
Inj Date : 07-APR-2006 15:10
Operator : 22980 Inst ID: mx.i
Smp Info : H2HCM1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 11:23 gosss Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	4.852	4.851	(1.000)	1135324	10.0000	
* 2 Chlorobenzene-d5	119	7.583	7.582	(1.000)	225016	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.747	10.746	(1.000)	242017	10.0000	
$ 4 Dibromofluoromethane	113	4.268	4.273	(0.880)	145224	7.52347	0.18809
$ 5 1,2-Dichloroethane-d4	65	4.554	4.553	(0.939)	116600	7.74945	0.19374
$ 6 Toluene-d8	98	6.251	6.250	(0.824)	843206	7.65379	0.19134
$ 7 4-Bromofluorobenzene	95	8.873	8.872	(0.826)	180980	6.30701	0.15768
M 9 Xylene (total)	106				26793	0.53219	0.013305
21 Acetone	43	2.382	2.381	(0.491)	34888	21.6970	0.54242
23 Carbon Disulfide	76	2.498	2.497	(0.515)	33394	0.38595	0.0096489
26 Methylene Chloride	84	2.747	2.746	(0.566)	62966	3.58723	0.089681
33 *Vinyl Acetate	86	3.252	3.421	(0.670)	593	0.45926	~~0.011482~~
34 2,2-Dichloropropane	77	3.860	3.853	(0.796)	2887	0.05793	~~0.0014483~~
36 2-Butanone	43	3.872	3.871	(0.798)	13534	5.39613	~~0.13490~~
38 *THF	42	4.104	4.109	(0.846)	1406	0.91498	0.022874
39 Chloroform (ccc)	83	4.140	4.139	(0.853)	35351	0.81926	0.020482
41 Carbon Tetrachloride	117	4.438	4.437	(0.915)	4998	0.12264	0.0030661
42 1,1-Dichloropropene	75	4.852	4.437	(1.000)	85427	1.90049	~~0.047512~~
43 Benzene	78	4.608	4.607	(0.950)	24765	0.21539	0.0053847
44 1,2-Dichloroethane	62	4.852	4.620	(1.000)	19743	1.02041	~~0.025510~~

4/19/06

Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d
Report Date: 07-Apr-2006 15:26

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
45 Trichloroethene	130	5.174	5.173	(1.066)	4502	0.14593	0.0036482
49 Bromodichloromethane	83	5.606	5.605	(1.155)	35019	1.45373	0.036343
51 cis-1,3-Dichloropropene	75	6.312	6.007	(1.301)	4560	0.16165	0.0040412
52 4-Methyl-2-pentanone	43	6.251	6.147	(1.288)	7078	1.17838	0.029460
53 Toluene (ccc)	91	6.312	6.311	(0.832)	638856	4.84696	0.12117
54 trans-1,3-Dichloropropene	75	6.312	6.506	(0.832)	4560	0.19741	0.0049352
56 1,1,2-Trichloroethane	97	6.817	6.670	(0.899)	11569	1.11120	0.027780
57 Tetrachloroethene	164	6.823	6.816	(0.900)	1280598	45.2184	1.1304
59 2-Hexanone	43	6.440	6.907	(0.849)	9878	2.24286	0.056072
60 Chlorodibromomethane	129	7.036	7.035	(0.928)	53496	4.14707	0.10368
62 Chlorobenzene (spcc)	112	7.614	7.607	(1.004)	8416452	124.392	3.1098(A)
64 Ethylbenzene (ccc)	106	7.833	7.716	(1.033)	13396	0.28789	0.0071972
65 m&p-Xylene	106	7.833	7.838	(1.033)	13396	0.24565	0.0061412
66 o-Xylene	106	7.833	8.251	(1.033)	13396	0.28654	0.0071635
68 Bromoform (spcc)	173	8.459	8.464	(1.116)	36978	5.93120	0.14828
69 Isopropylbenzene	105	8.690	8.689	(1.146)	10598	0.07068	0.0017670
73 1,2,3-Trichloropropane	110	9.244	9.115	(0.860)	517	0.22924	0.0057310
80 1,2,4-Trimethylbenzene	105	10.084	10.125	(0.938)	74902	0.95925	0.023981
81 sec-Butylbenzene	105	10.084	10.435	(0.938)	75247	0.54550	0.013637
82 1,3-Dichlorobenzene	146	10.783	10.612	(1.003)	1723	0.04227	0.0010567
84 1,4-Dichlorobenzene	146	10.783	10.788	(1.003)	1723	0.04667	0.0011668
90 Napthalene	128	13.947	13.946	(1.298)	68336	6.50772	0.16269

QC Flag Legend

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

4/19/06

Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d
Report Date: 07-Apr-2006 15:26

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: h2hcm1aa.d
Lab Smp Id: H2HCM1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 09:16
Client Smp ID: G-3093-R3-VOST PAIR
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1149191	574596	2298382	1135324	-1.21
2 Chlorobenzene-d5	214194	107097	428388	225016	5.05
3 1,4 Dichlorobenze	242601	121300	485202	242017	-0.24

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	0.02
2 Chlorobenzene-d5	7.58	7.08	8.08	7.58	0.01
3 1,4 Dichlorobenze	10.75	10.25	11.25	10.75	0.01

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

Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d
Report Date: 07-Apr-2006 15:26

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030169
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: H2HCM1AA
Client Smp ID: G-3093-R3-VOST PAIR
Level: LOW
Operator: 22980
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allcmpds.spk
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

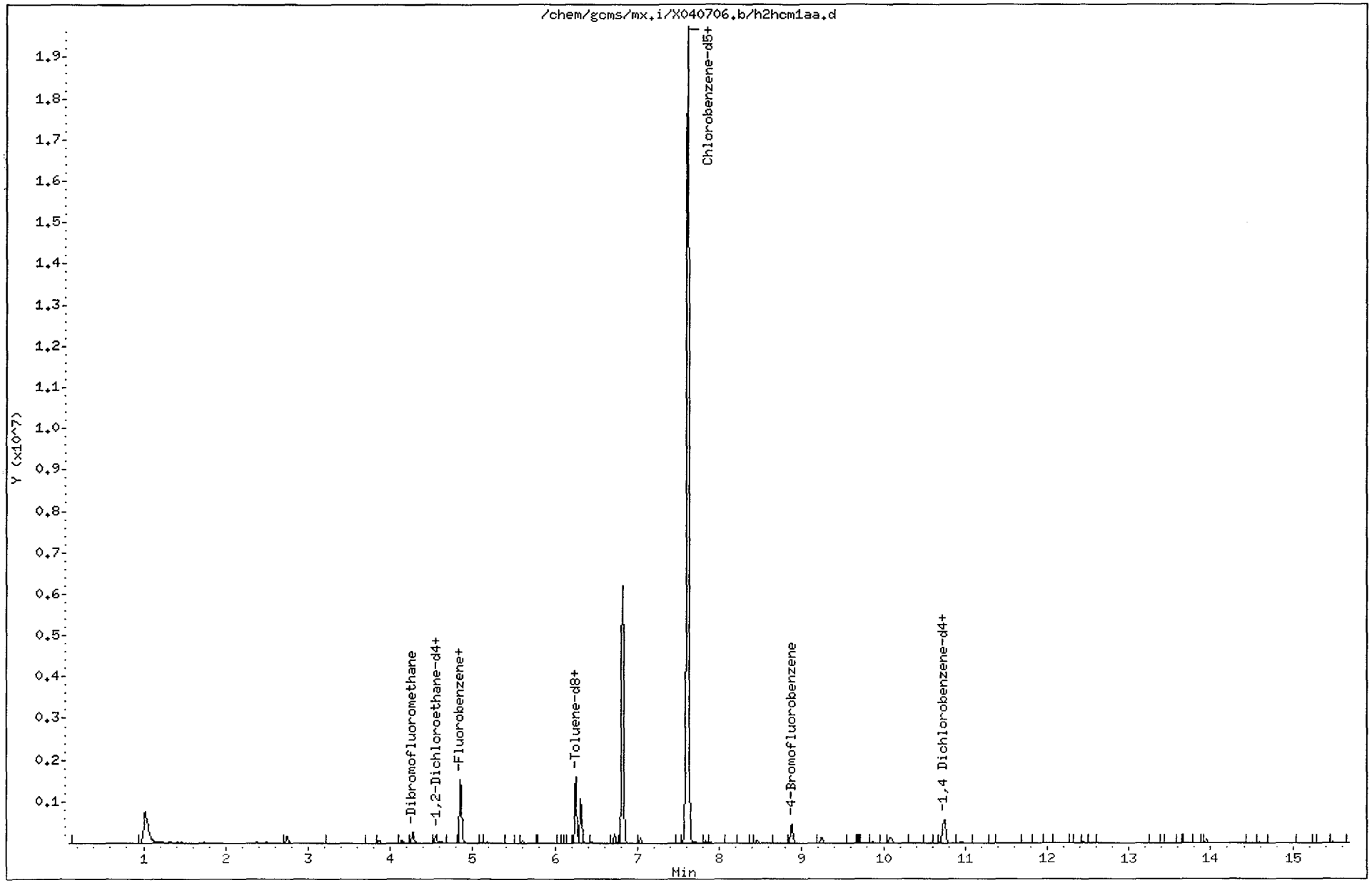
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.18809	75.23	50-150
$ 5 1,2-Dichloroethane	0.25000	0.19374	77.49	50-150
$ 6 Toluene-d8	0.25000	0.19134	76.54	50-150
$ 7 4-Bromofluorobenze	0.25000	0.15768	63.07	50-150

Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d
Date : 07-APR-2006 15:10
Client ID: G-3093-R3-VOST PAIR
Sample Info: H2HCM1AA,1,0,,,

Instrument: mx.i

Operator: 22980
Column diameter: 0.18

Column phase: J+W 624



Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

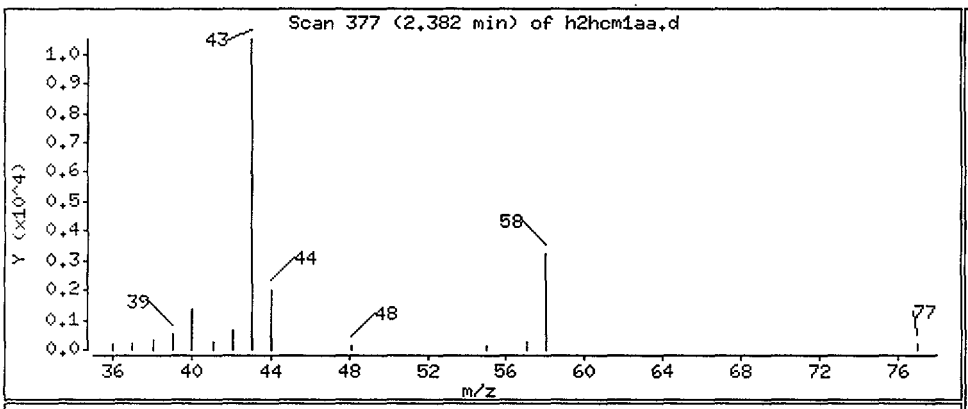
Operator: 22980

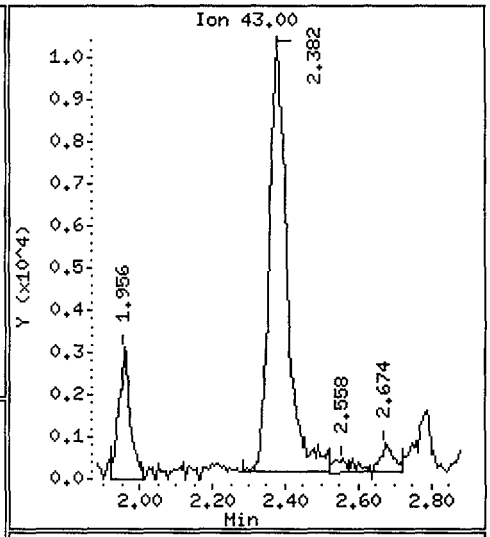
Column phase: J+W 624

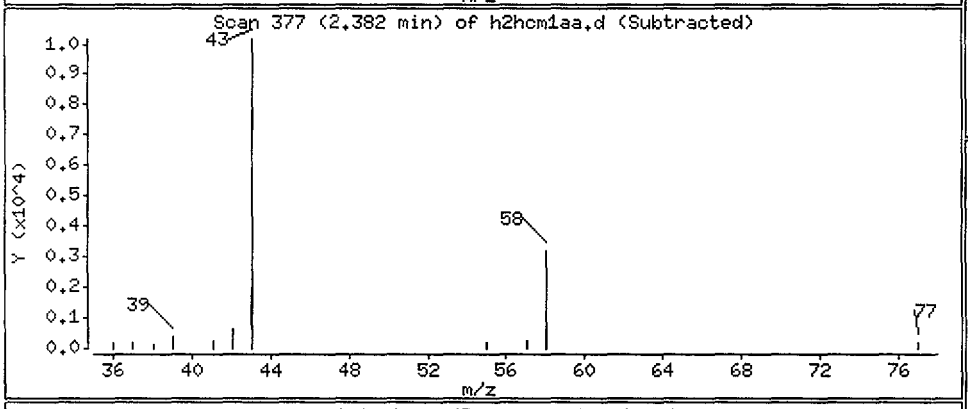
Column diameter: 0.18

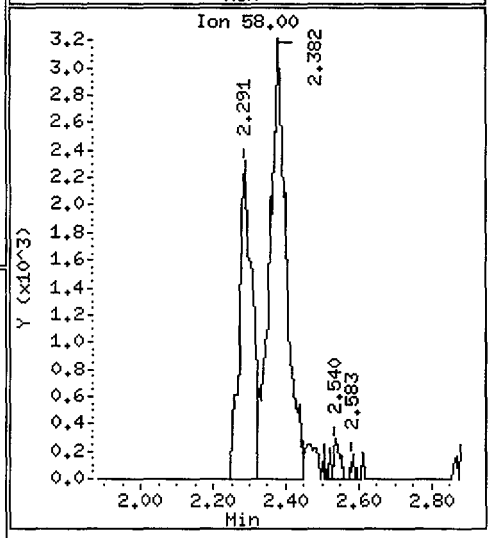
21 Acetone

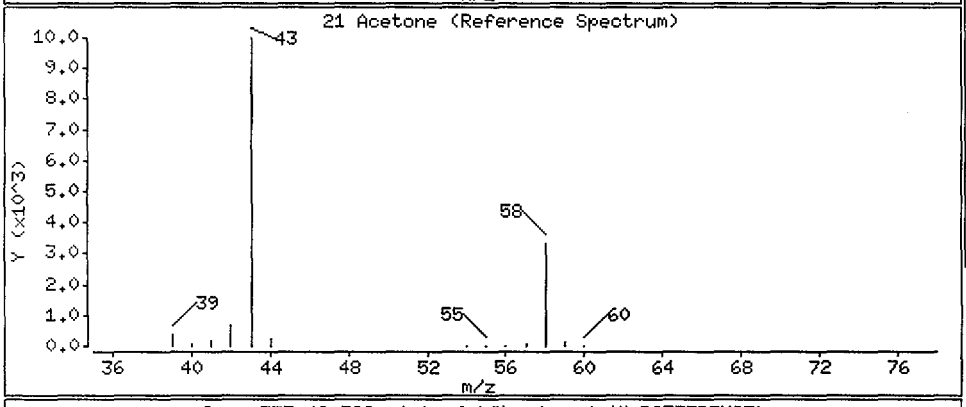
Concentration: 0.54242 ug

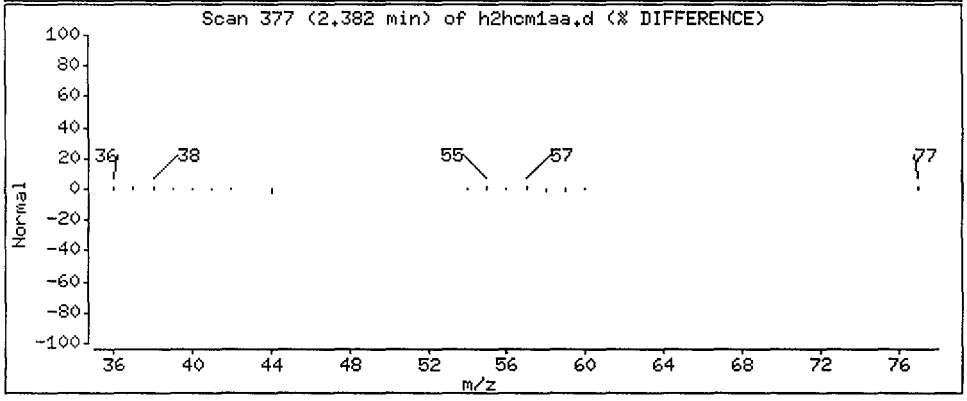












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

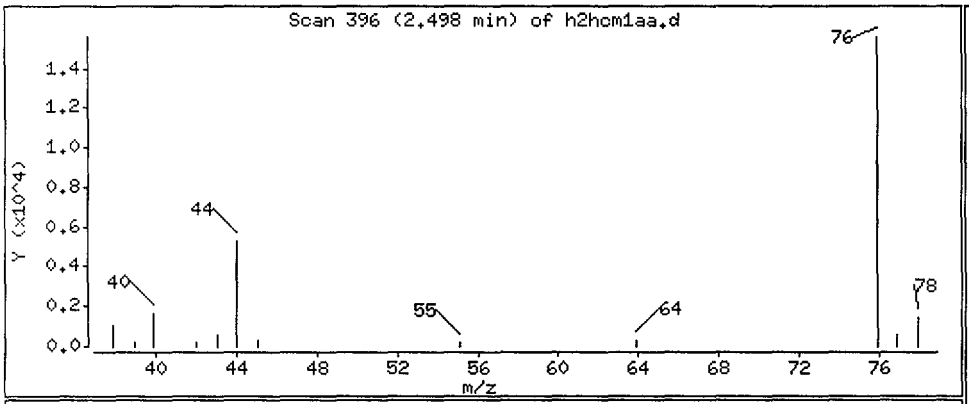
Operator: 22980

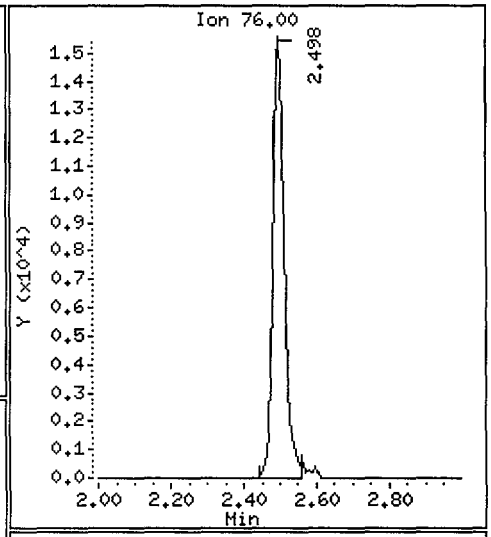
Column phase: J+W 624

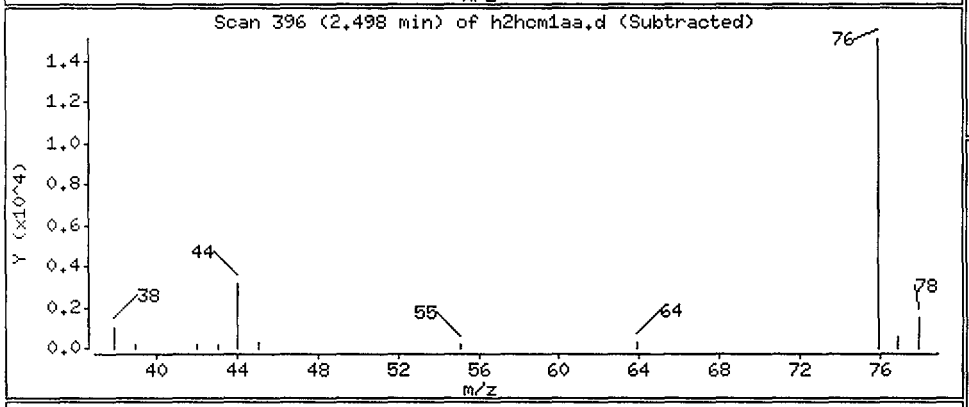
Column diameter: 0.18

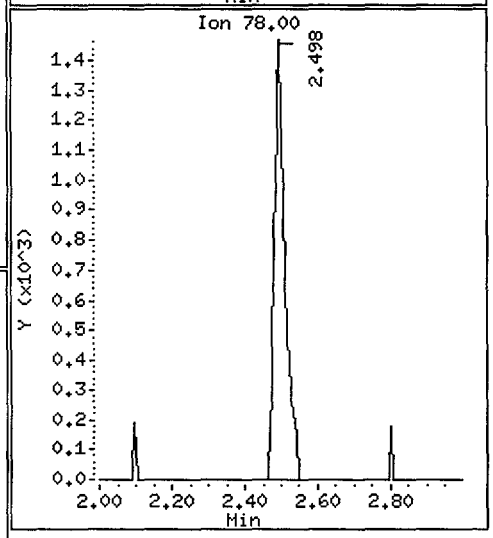
23 Carbon Disulfide

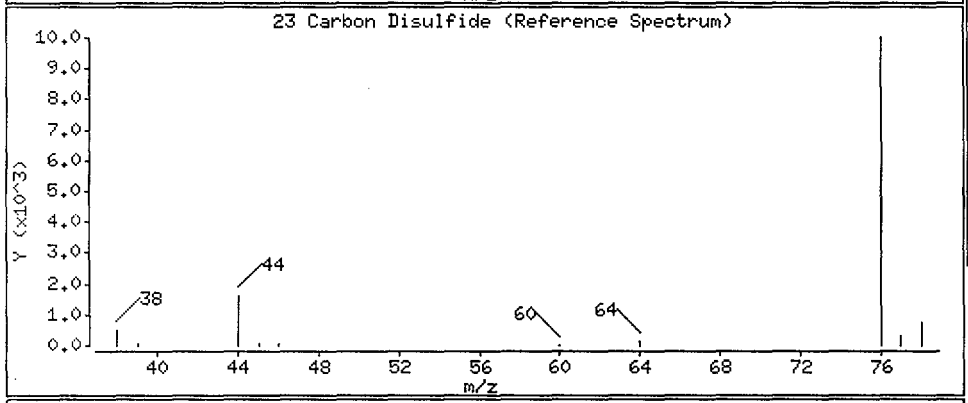
Concentration: 0.0096489 ug

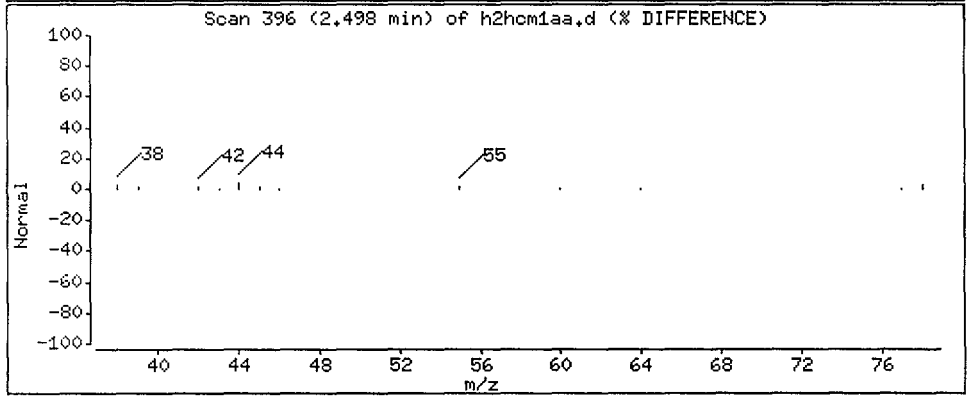












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

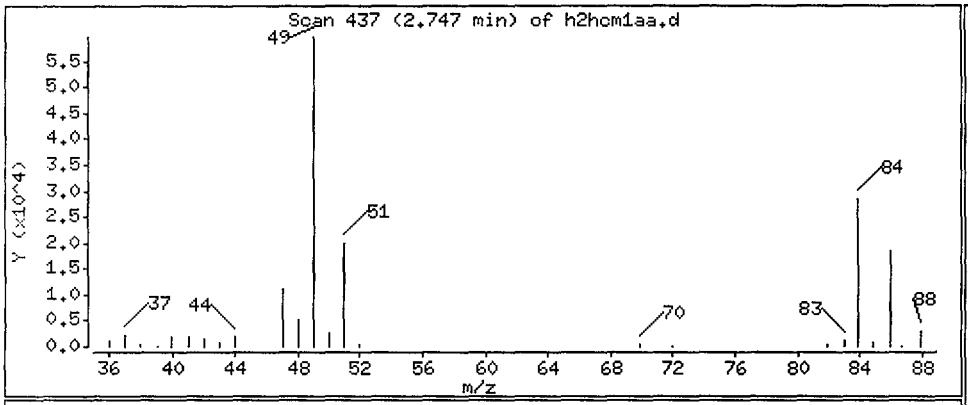
Operator: 22980

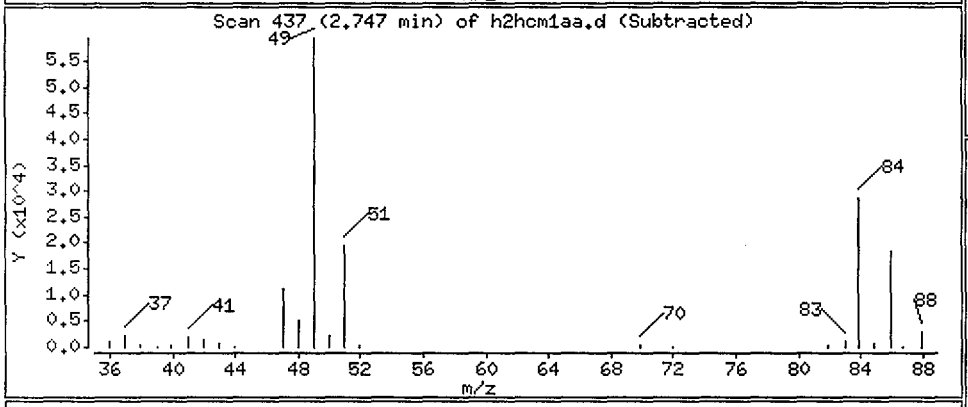
Column phase: J+W 624

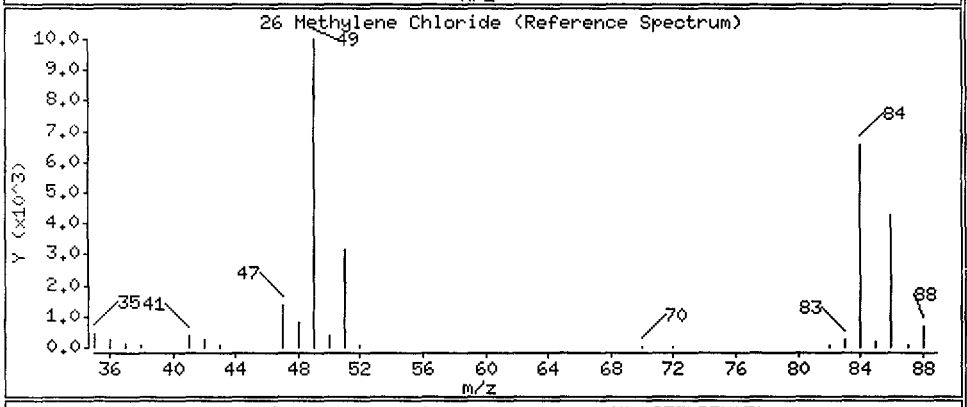
Column diameter: 0.18

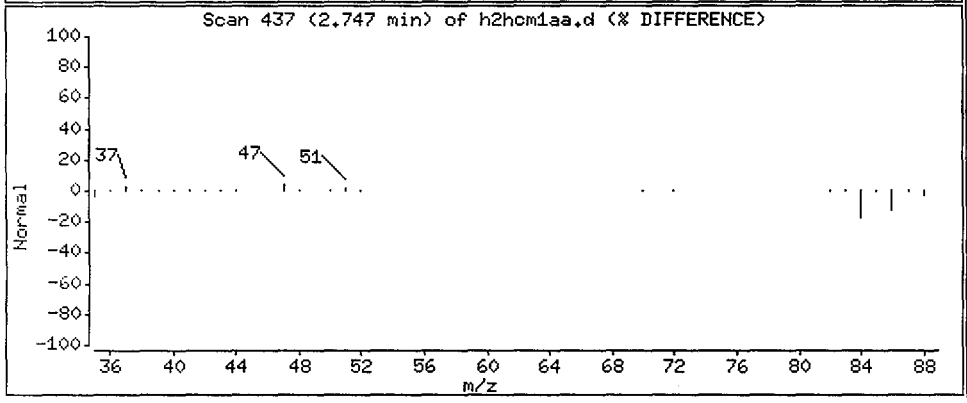
26 Methylene Chloride

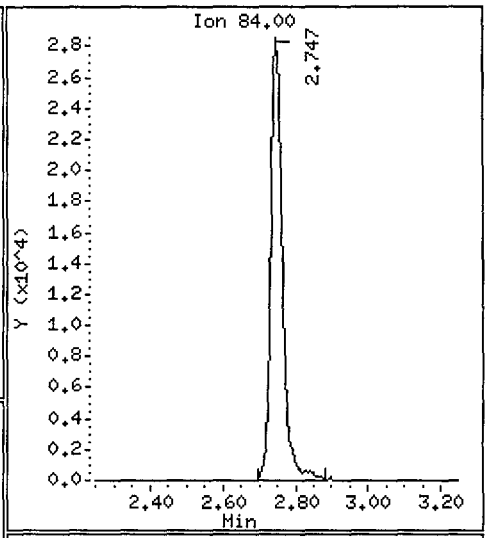
Concentration: 0.089681 ug

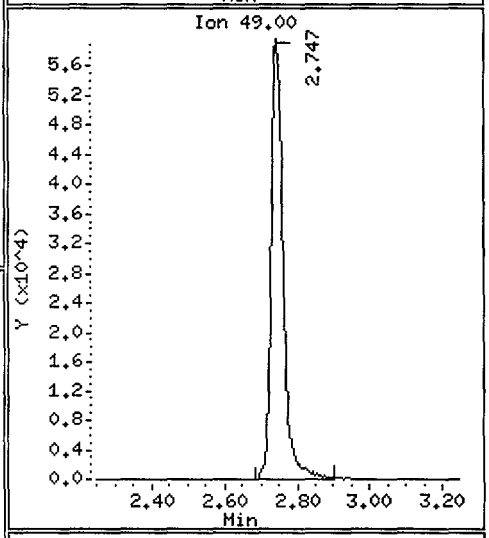


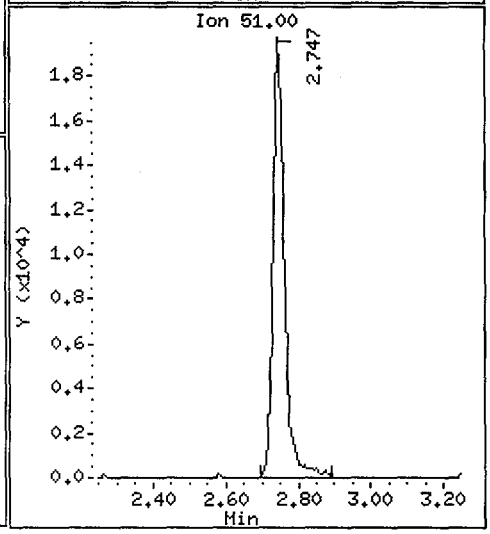












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

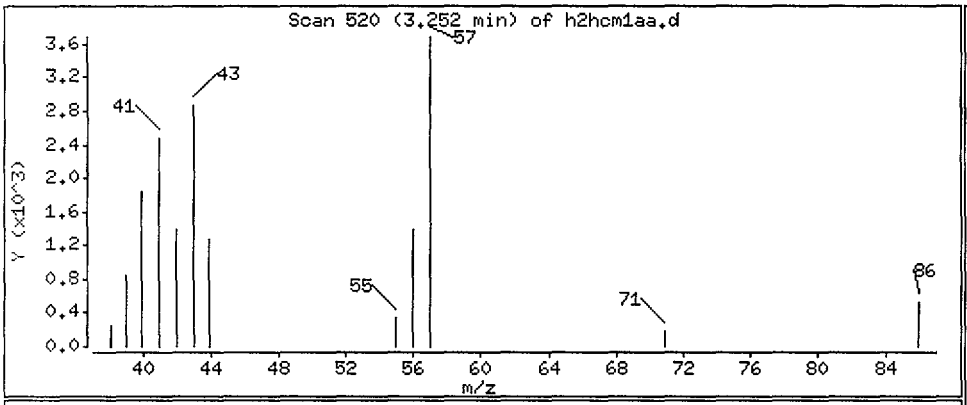
Operator: 22980

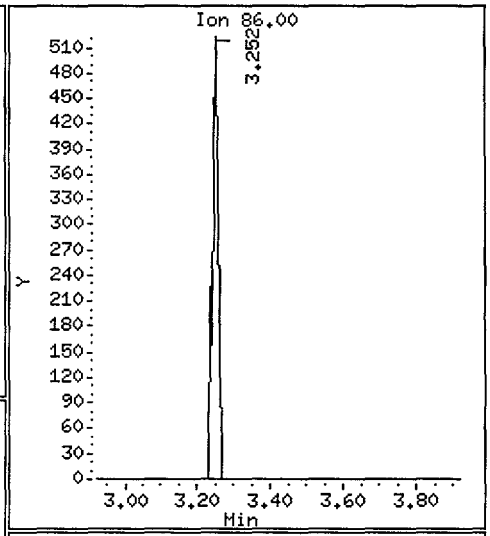
Column phase: J+W 624

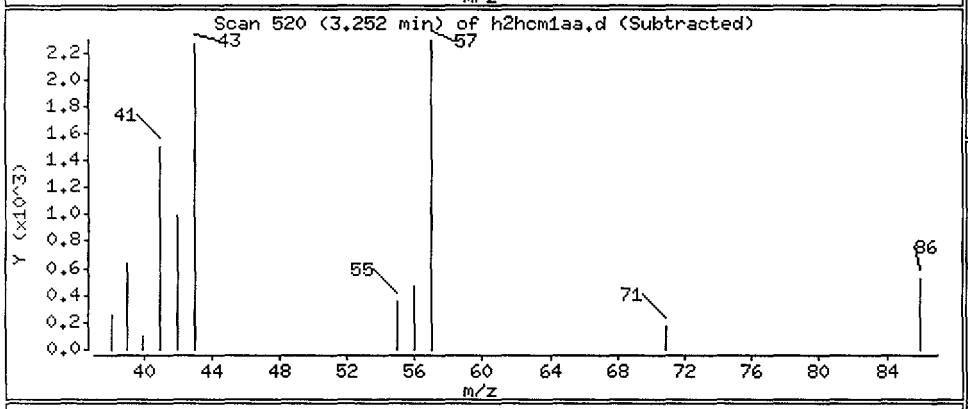
Column diameter: 0.18

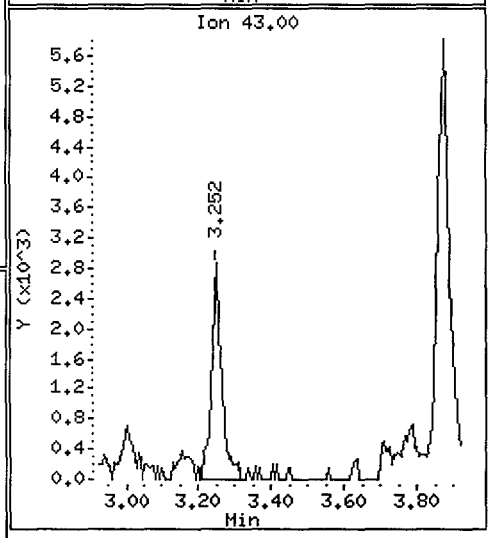
33 *Vinyl Acetate

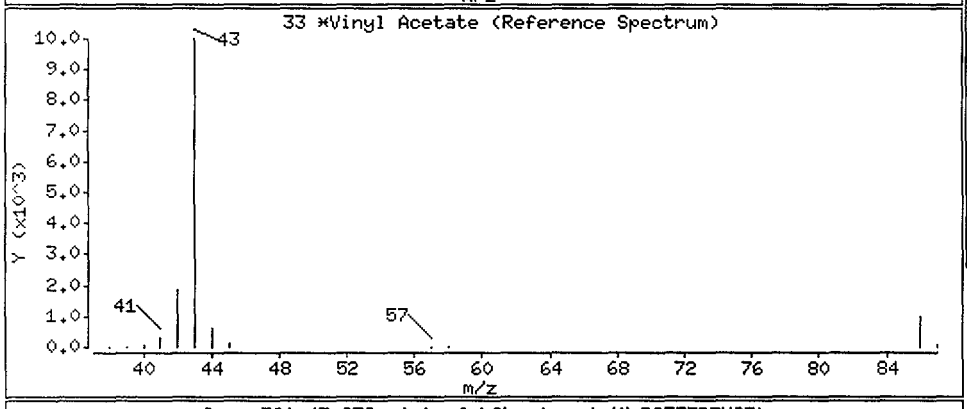
Concentration: 0.011482 ug

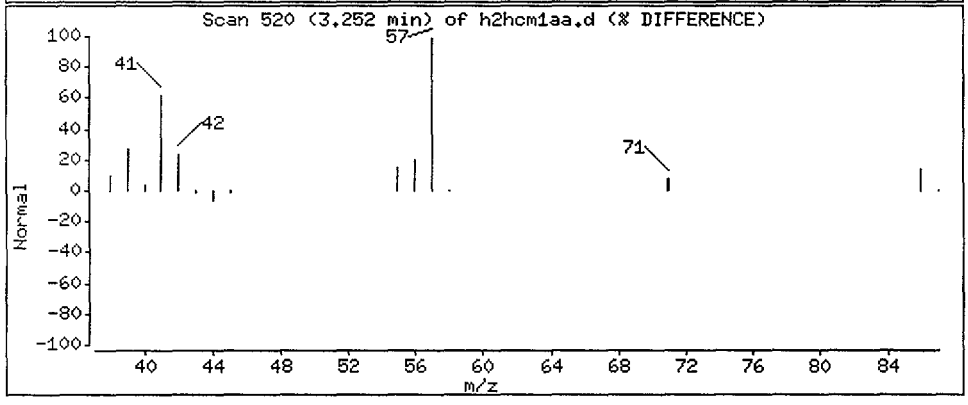












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

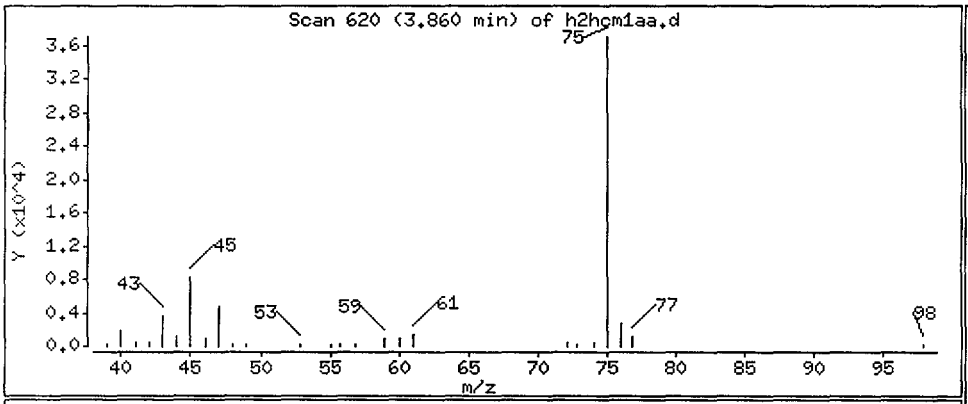
Operator: 22980

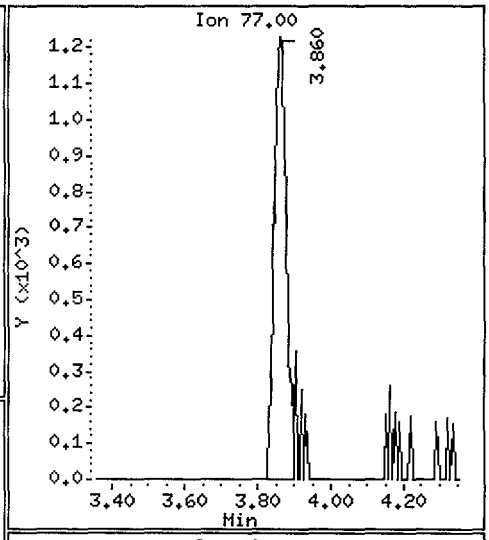
Column phase: J+W 624

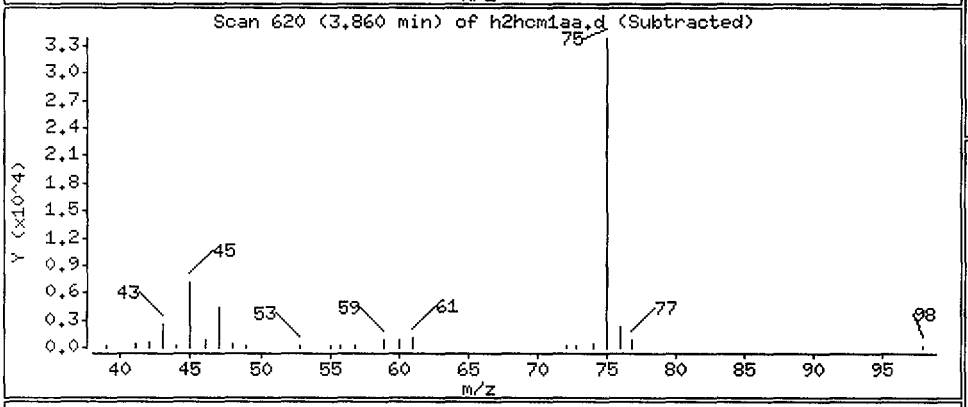
Column diameter: 0.18

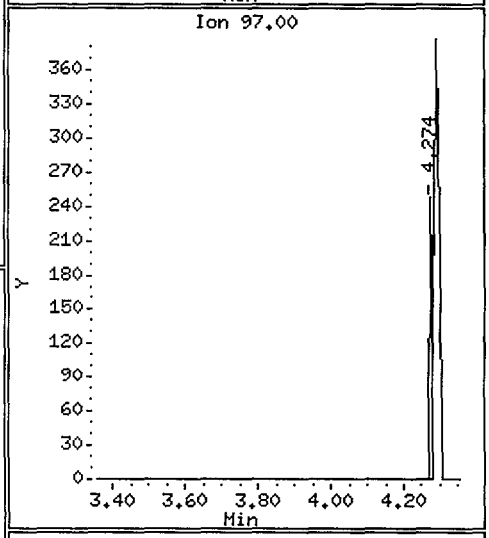
34 2,2-Dichloropropane

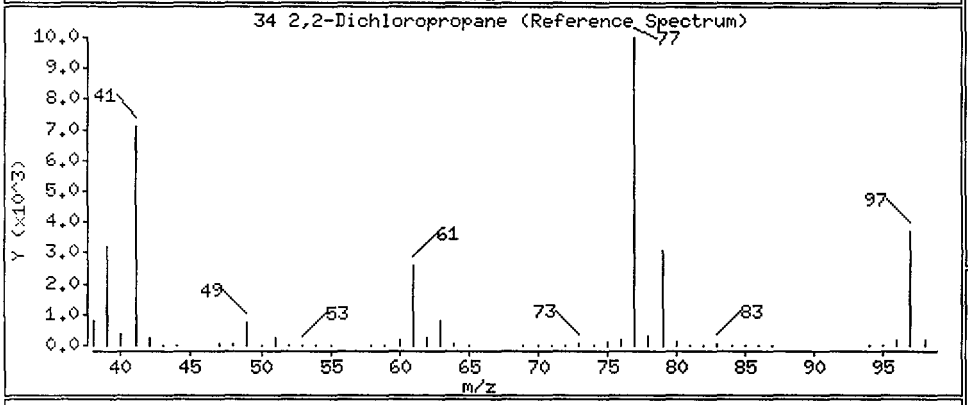
Concentration: 0.0014483 ug

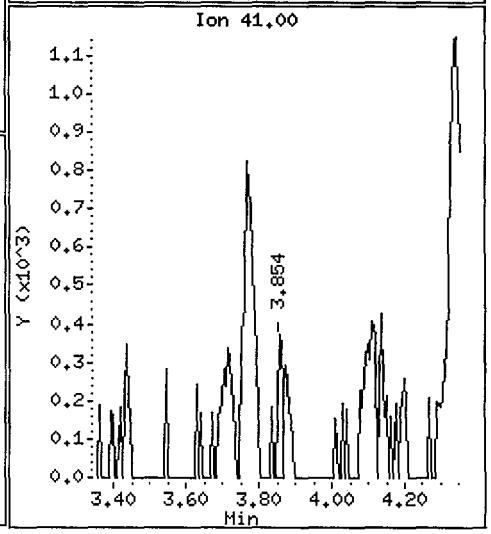


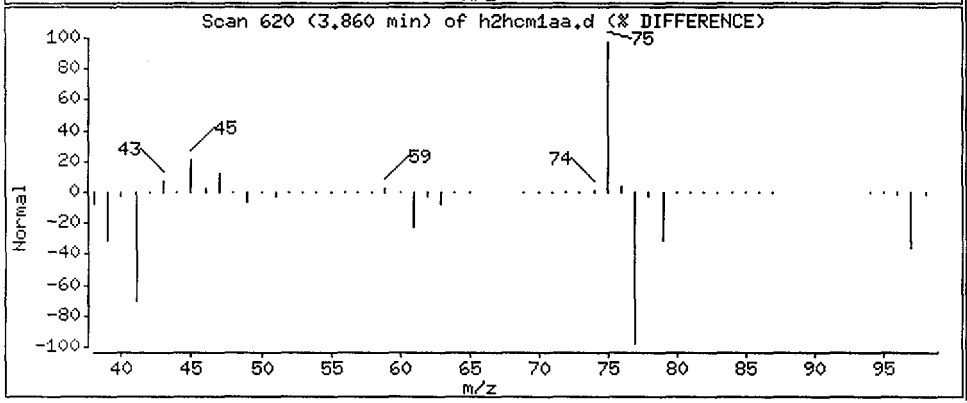












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

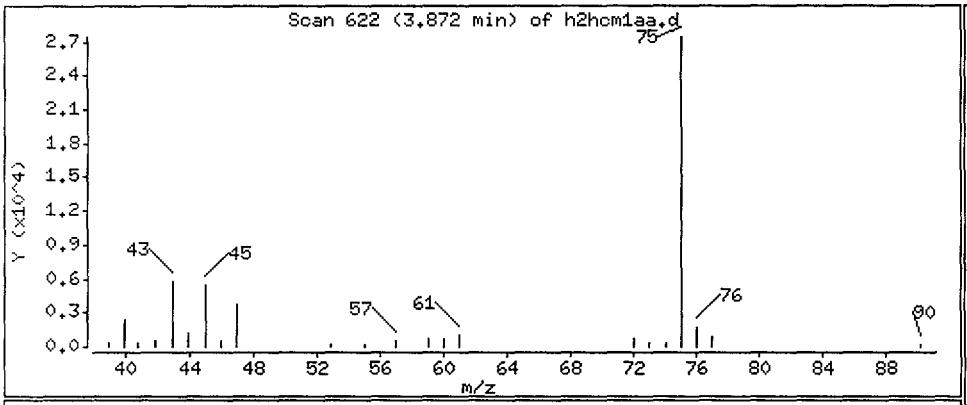
Operator: 22980

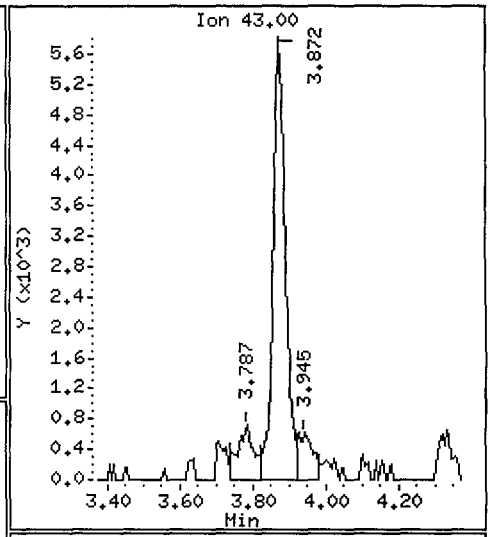
Column phase: J+W 624

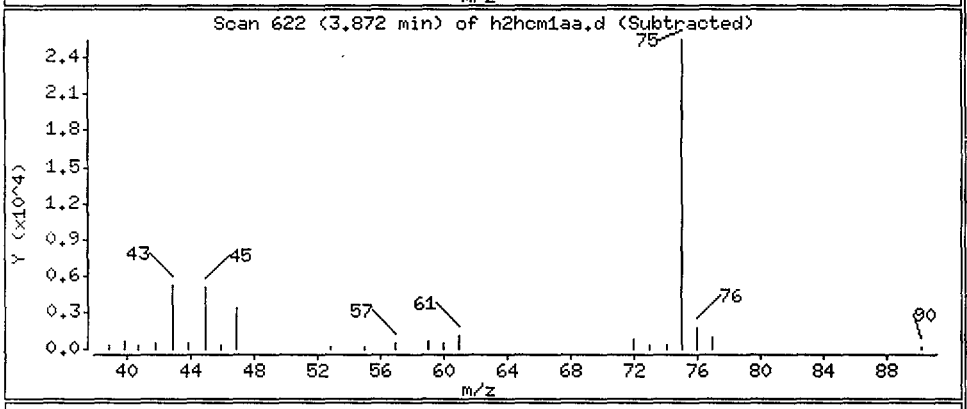
Column diameter: 0.18

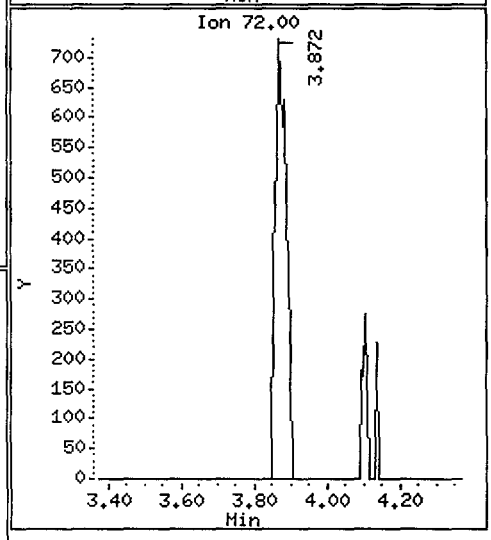
36 2-Butanone

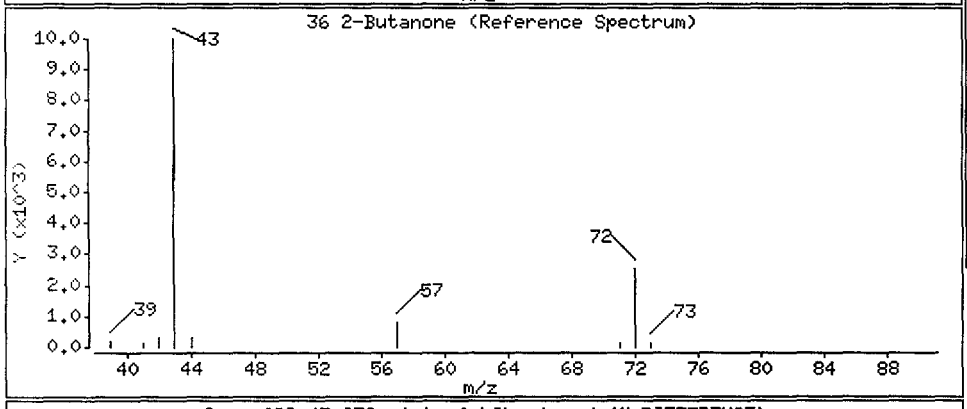
Concentration: 0.13490 ug

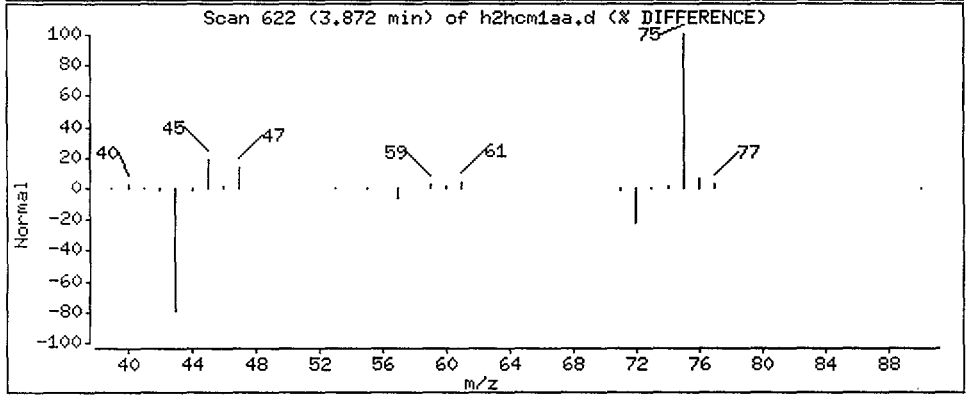












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

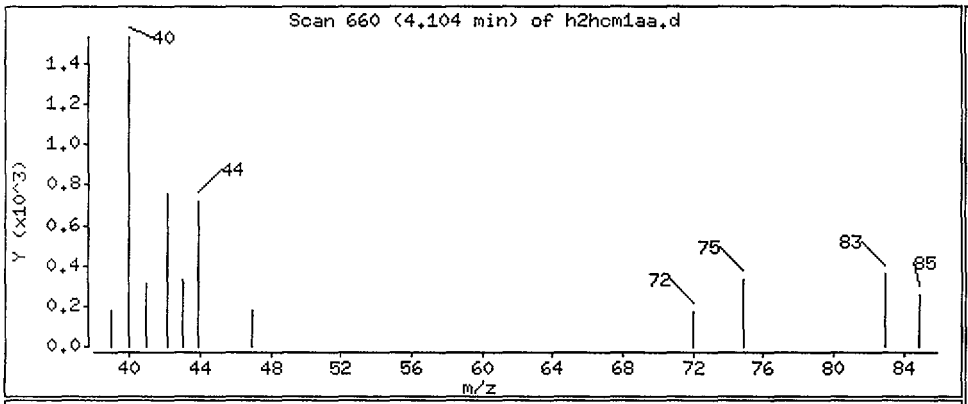
Operator: 22980

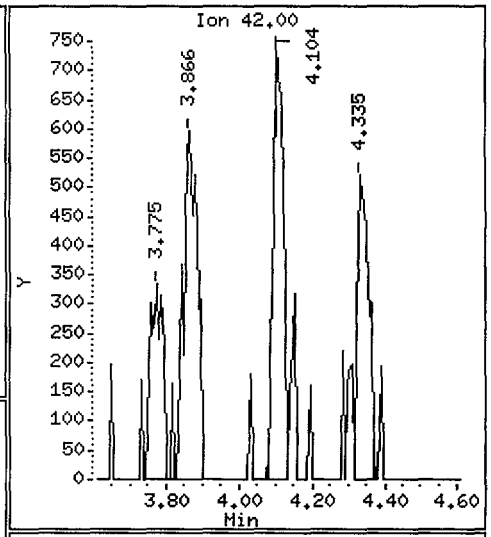
Column phase: J+W 624

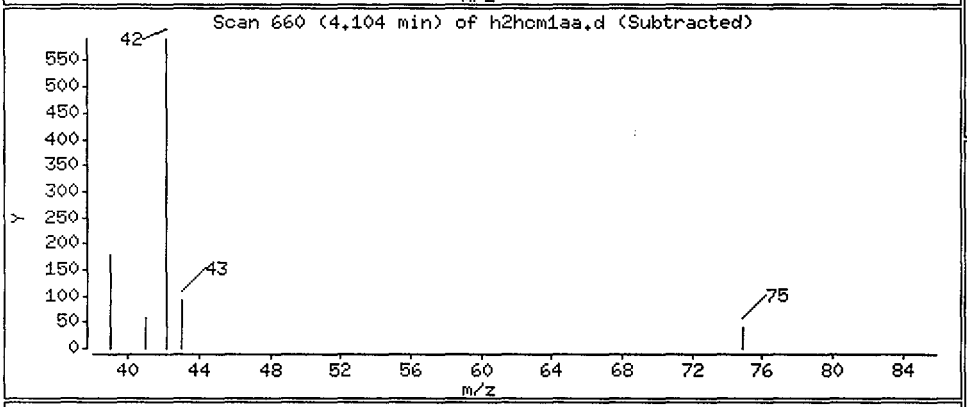
Column diameter: 0.18

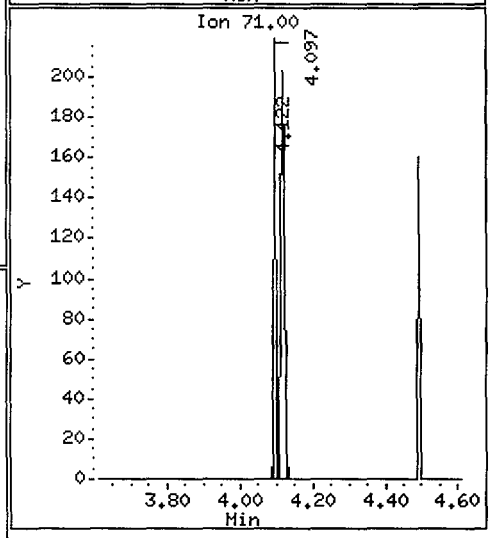
38 *THF

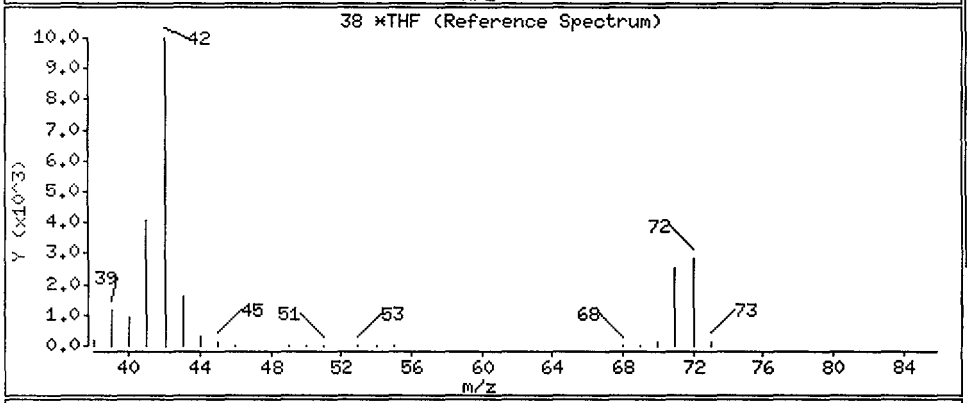
Concentration: 0.022874 ug

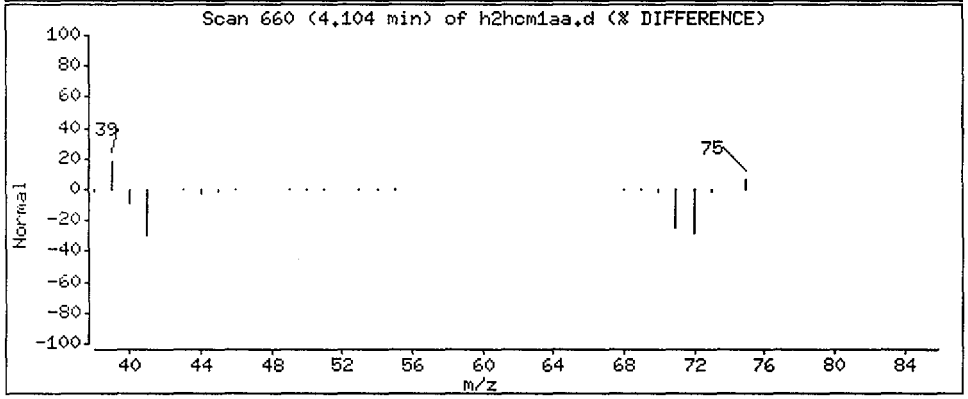












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

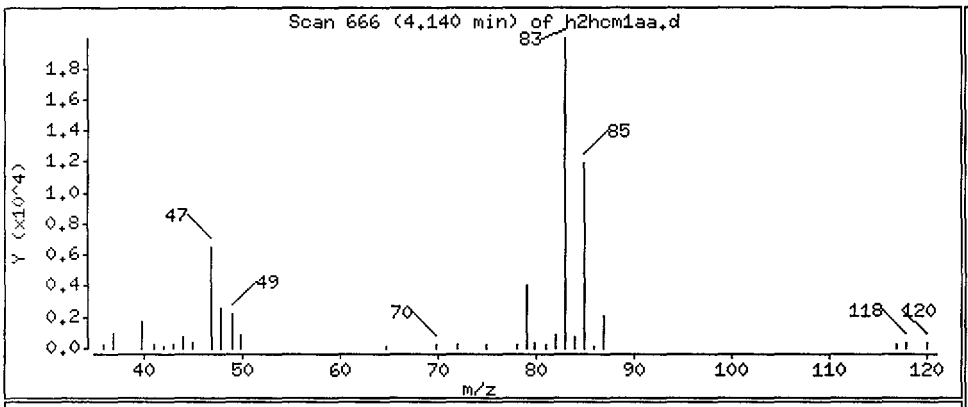
Operator: 22980

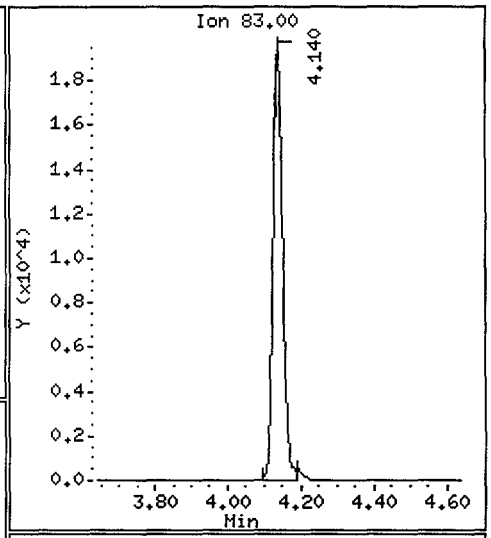
Column phase: J+W 624

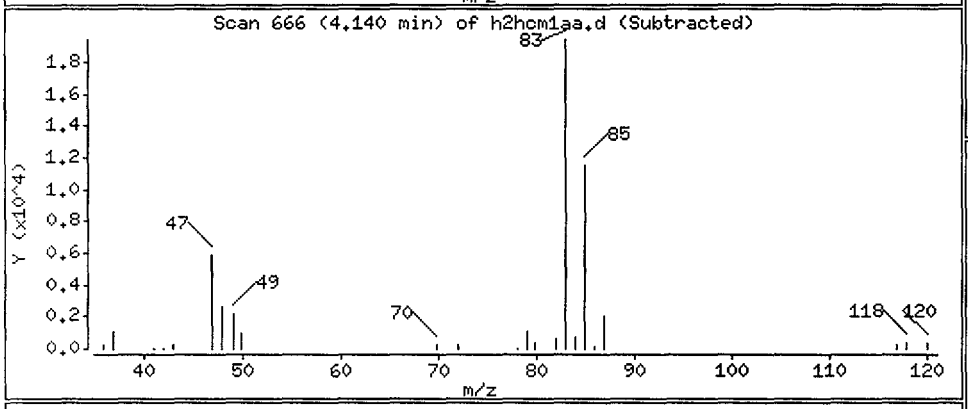
Column diameter: 0.18

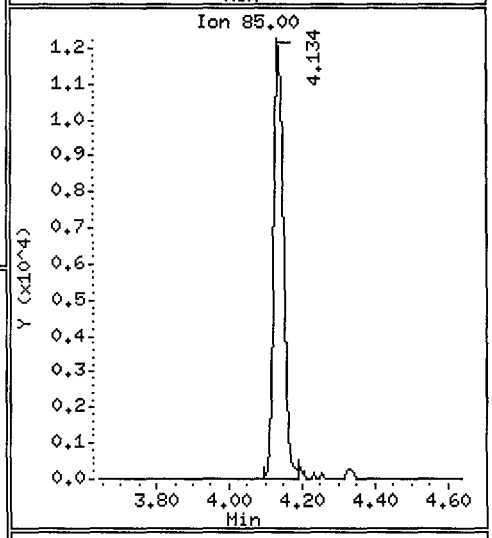
39 Chloroform (ccc)

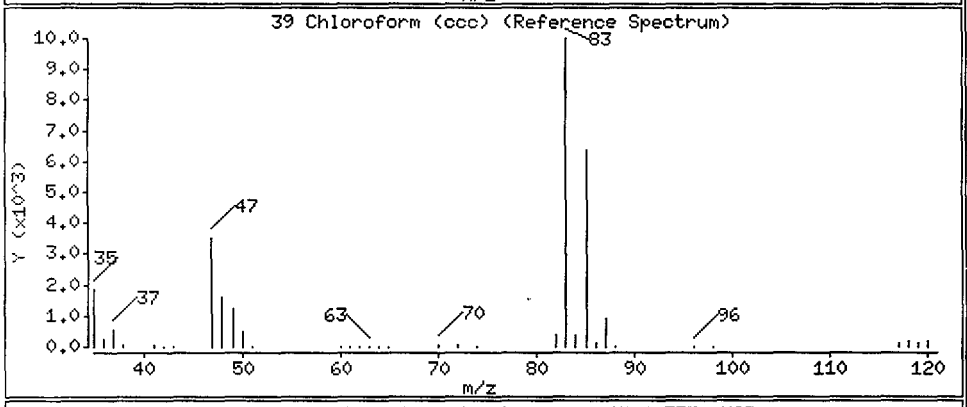
Concentration: 0.020482 ug

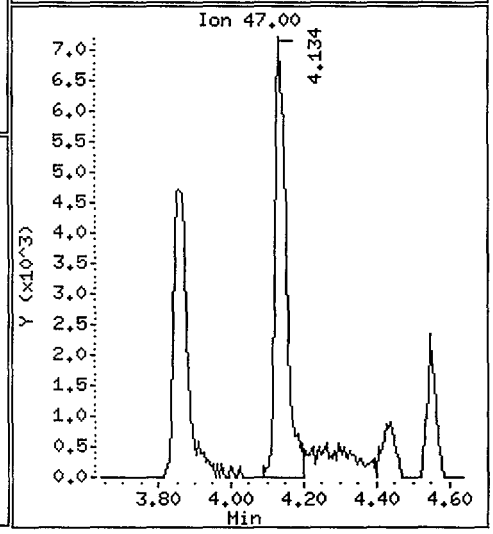


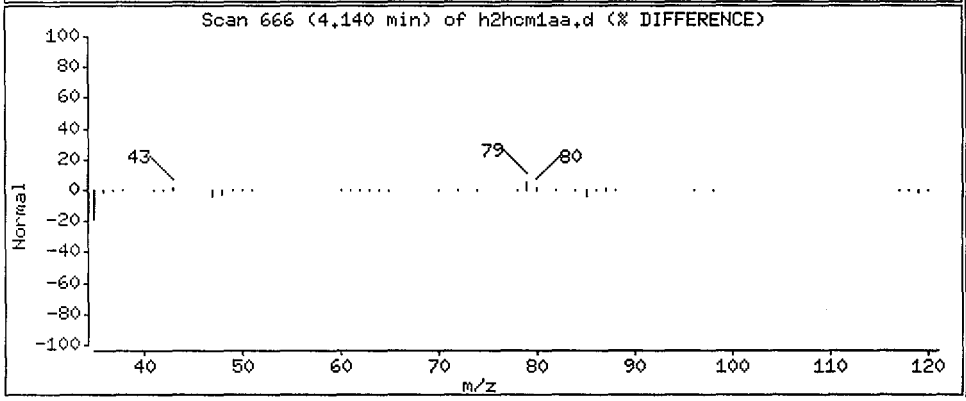












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

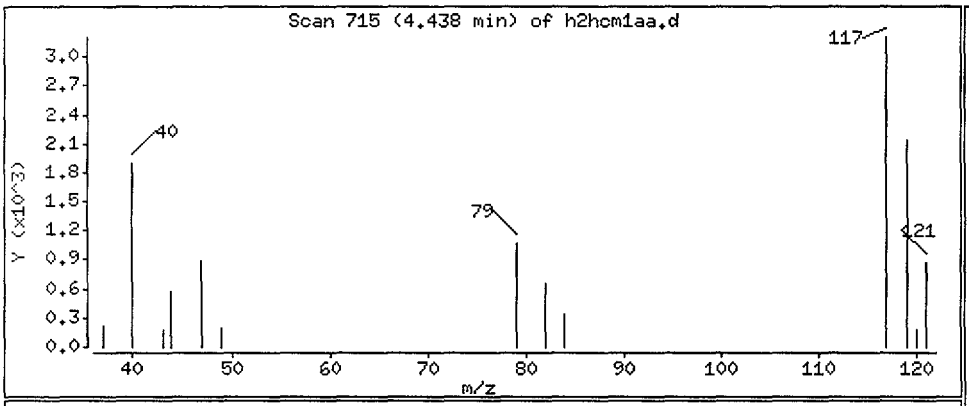
Operator: 22980

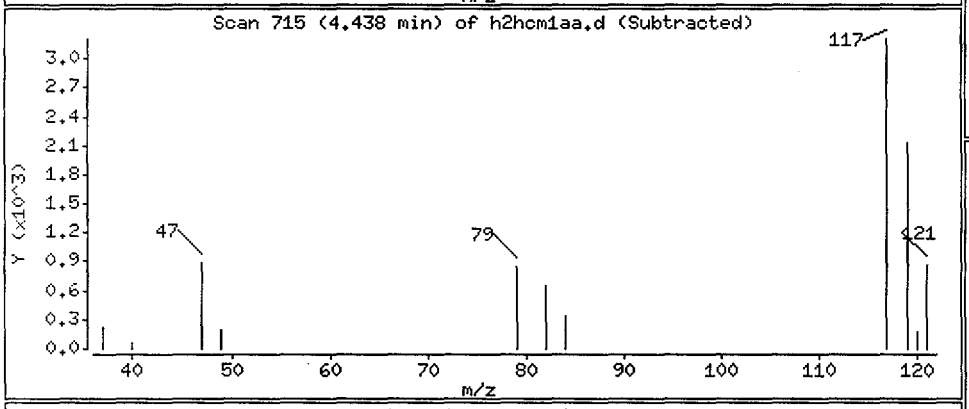
Column phase: J+W 624

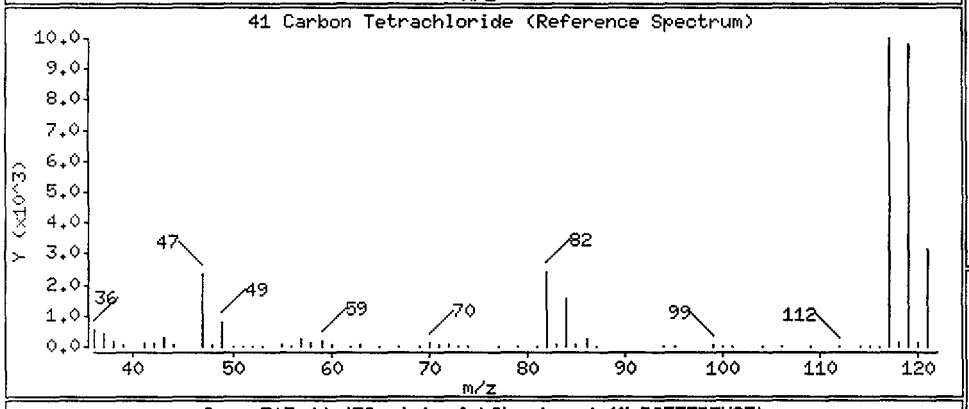
Column diameter: 0.18

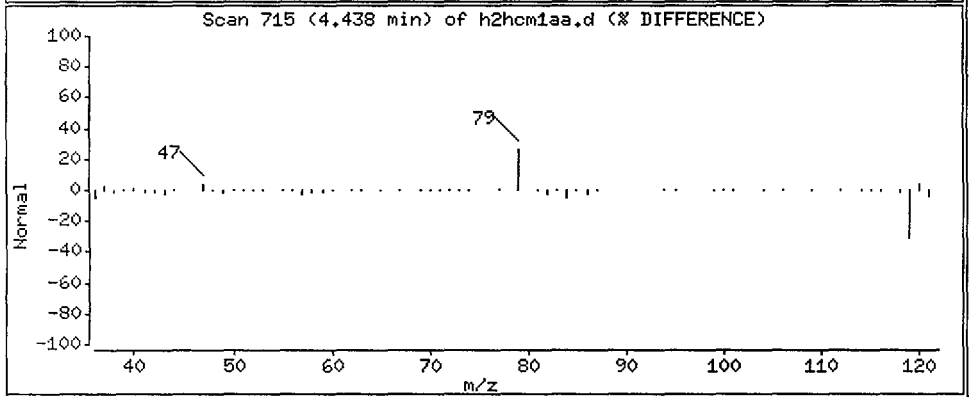
41 Carbon Tetrachloride

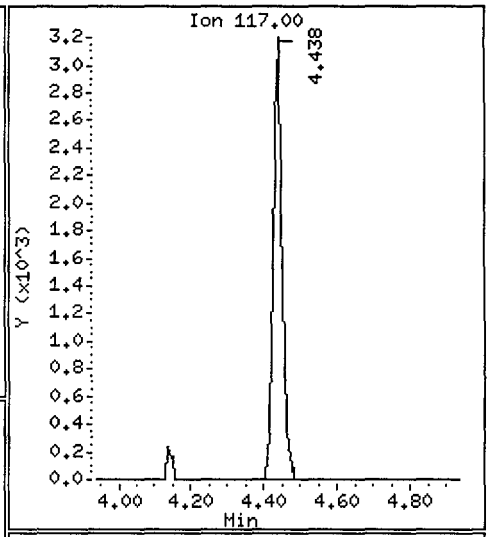
Concentration: 0.0030661 ug

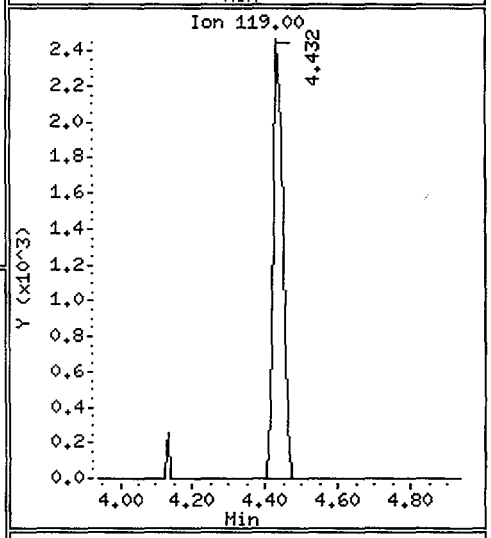


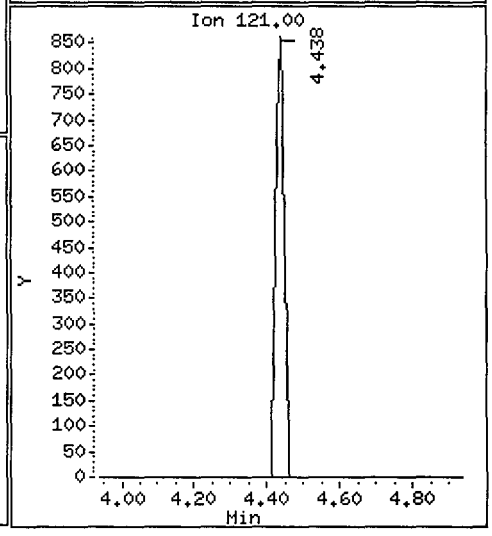












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

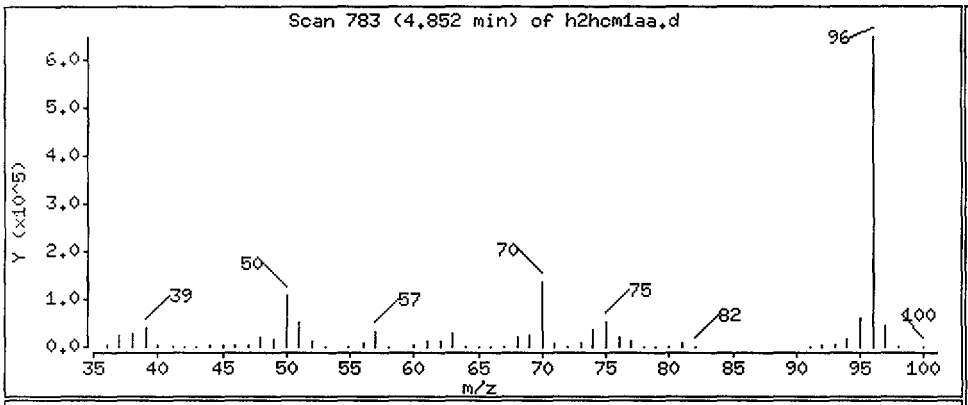
Operator: 22980

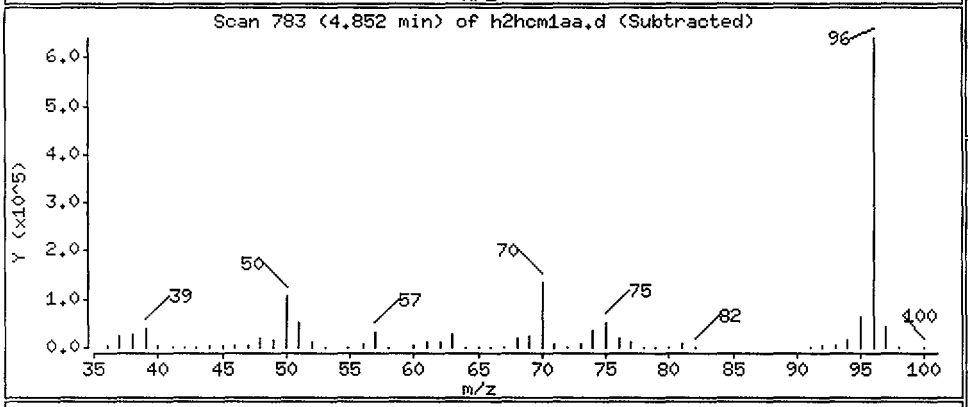
Column phase: J+W 624

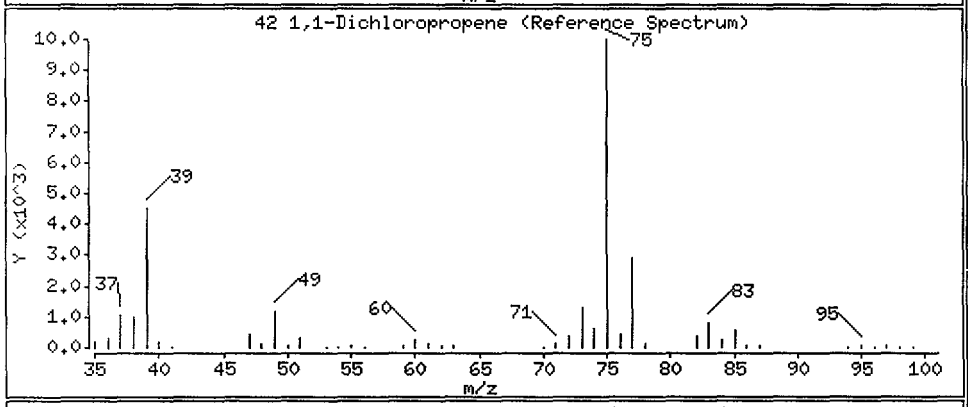
Column diameter: 0.18

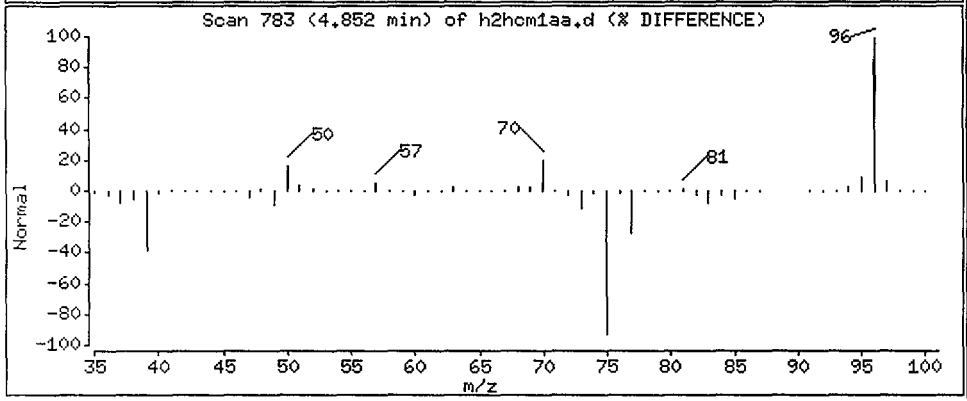
42 1,1-Dichloropropene

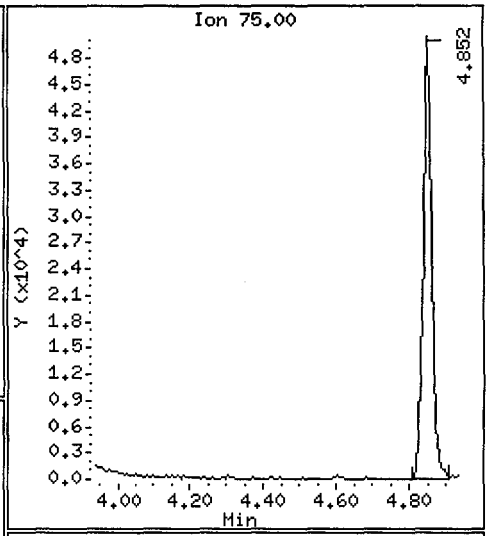
Concentration: 0.047512 ug

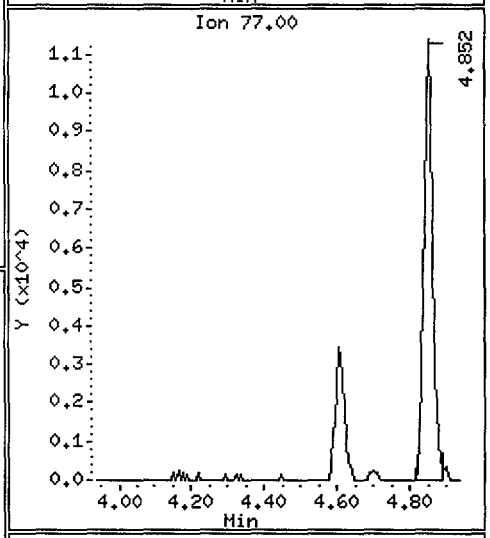


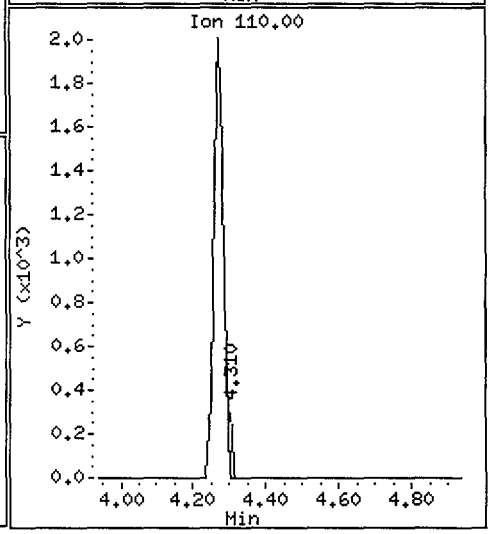












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

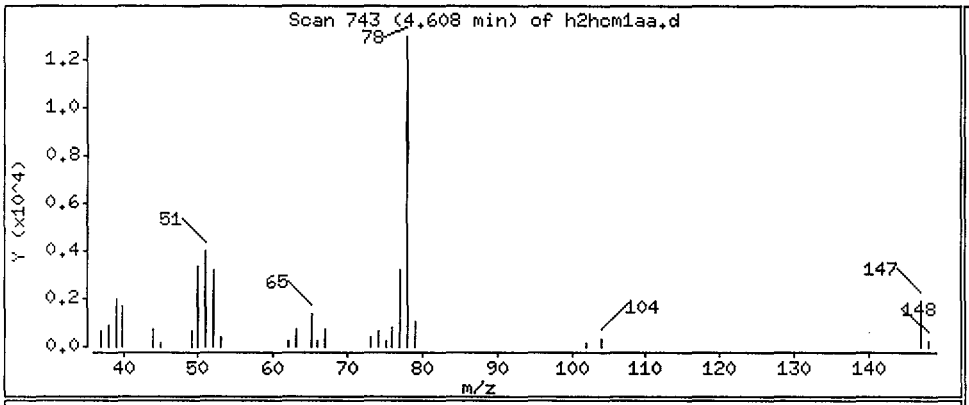
Operator: 22980

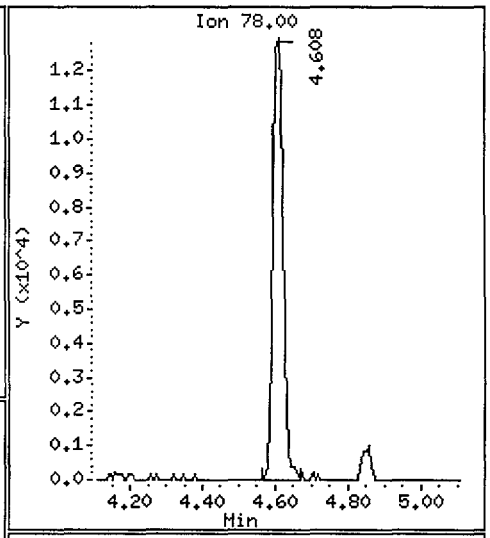
Column phase: J+W 624

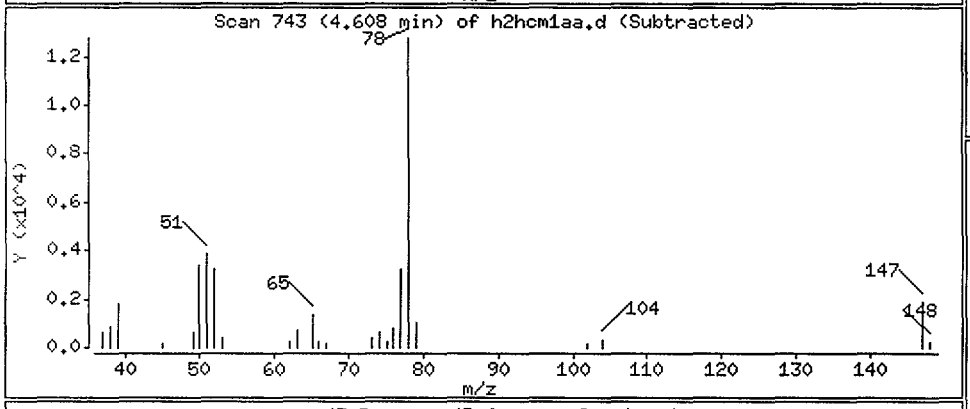
Column diameter: 0.18

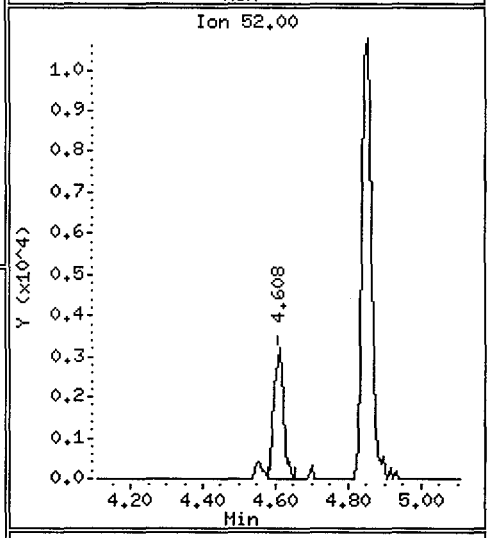
43 Benzene

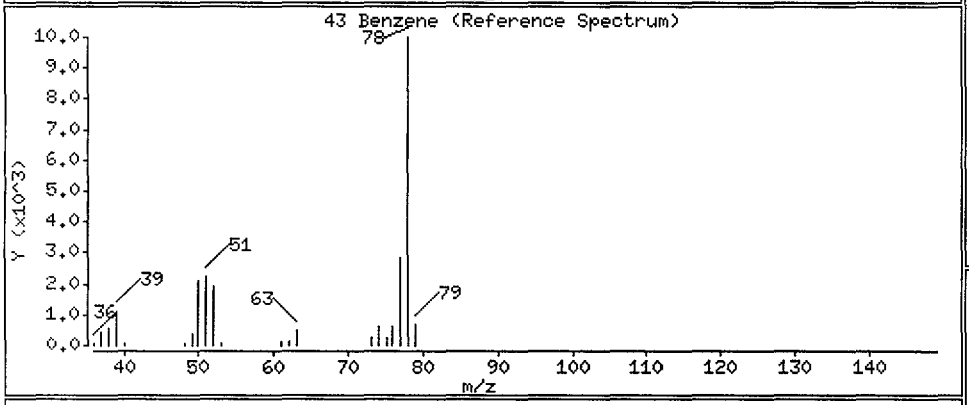
Concentration: 0.0053847 ug

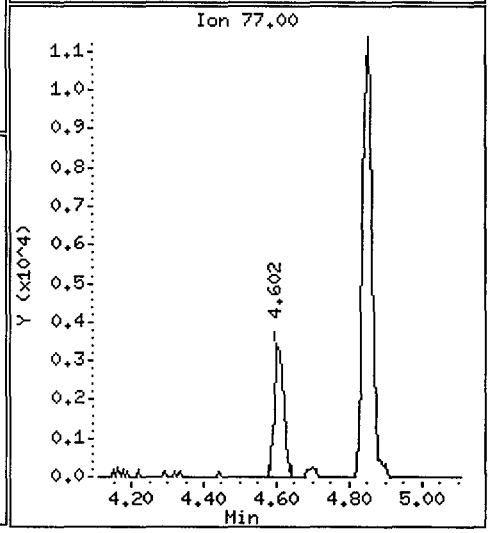


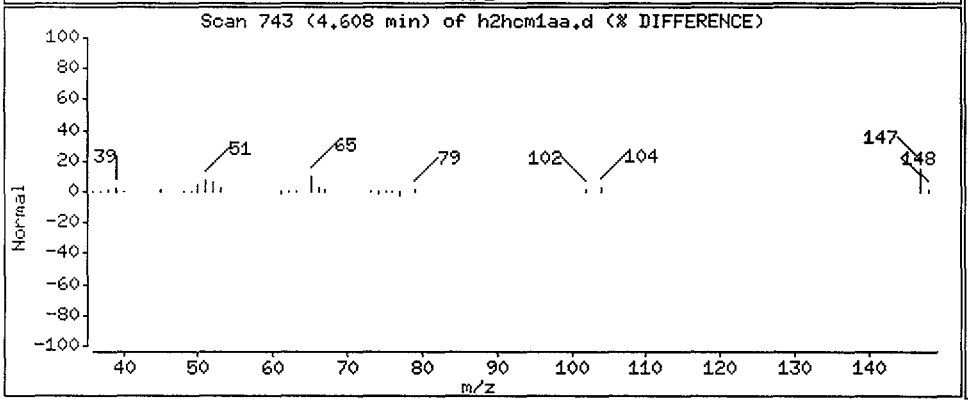












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

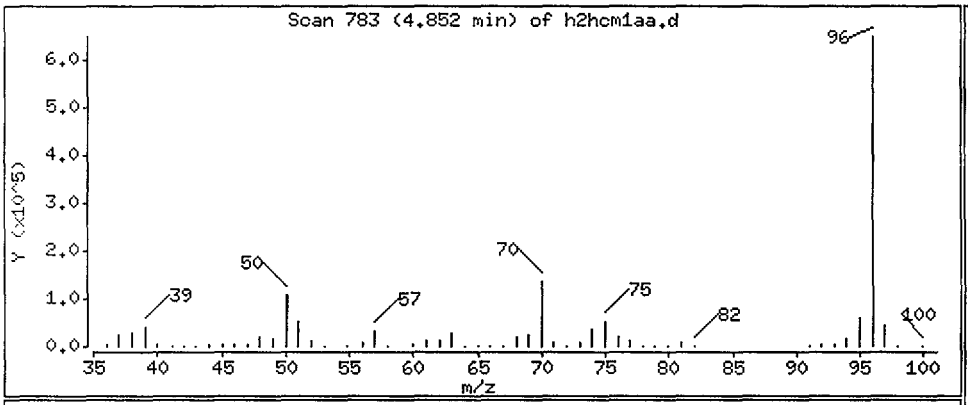
Operator: 22980

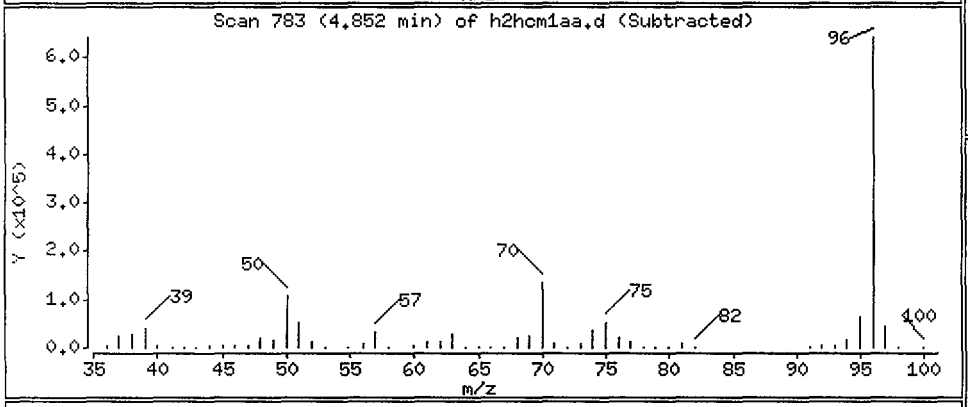
Column phase: J+W 624

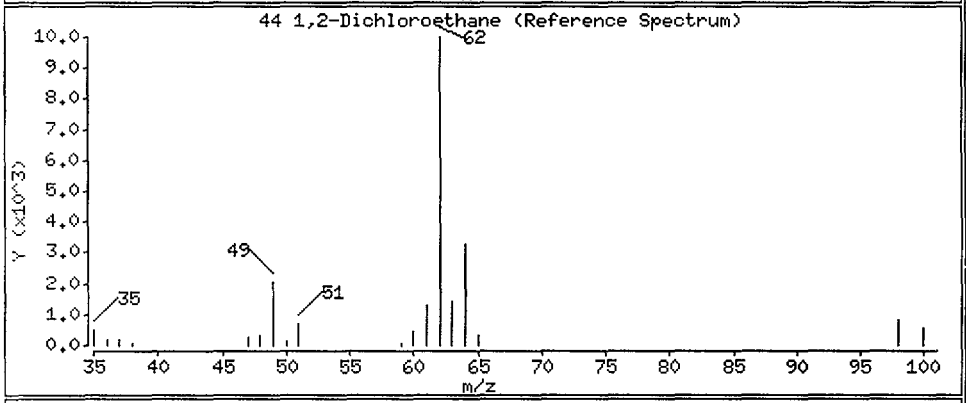
Column diameter: 0.18

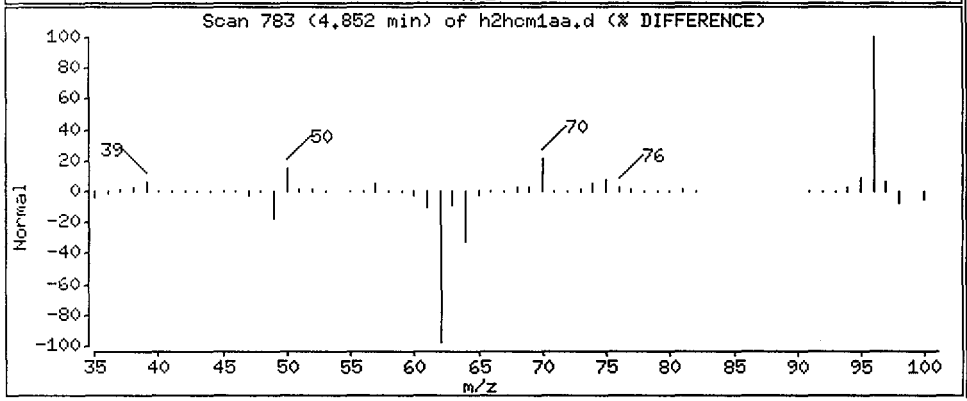
44 1,2-Dichloroethane

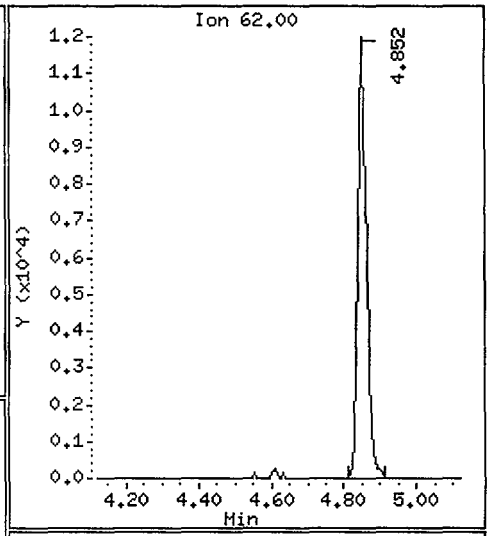
Concentration: 0.025510 ug

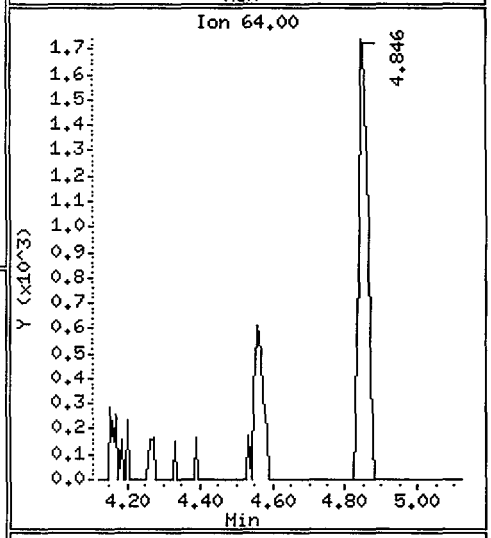


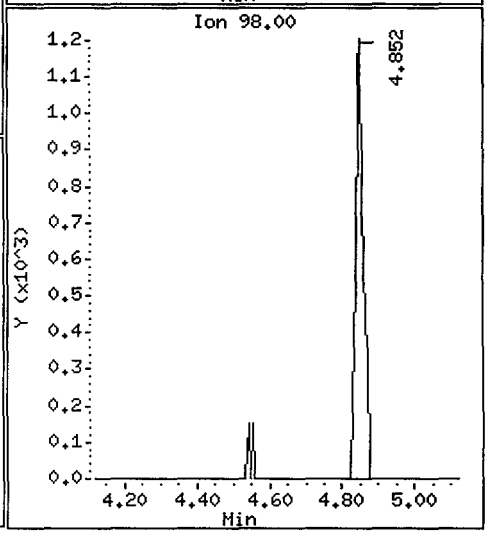












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: C-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

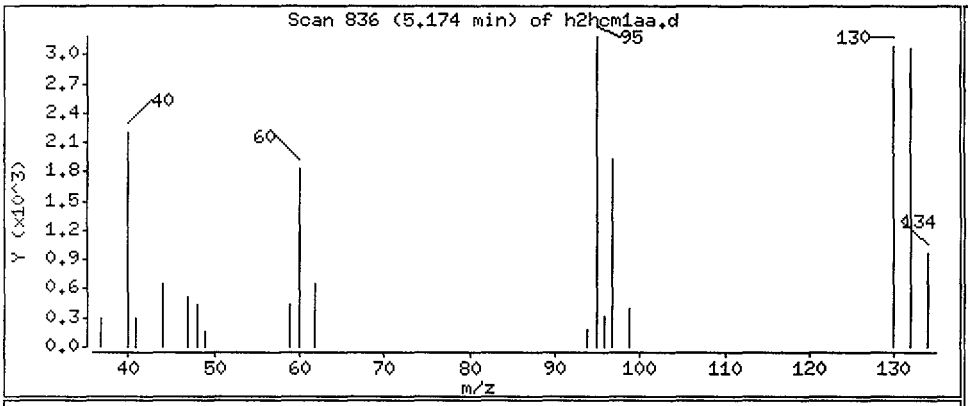
Operator: 22980

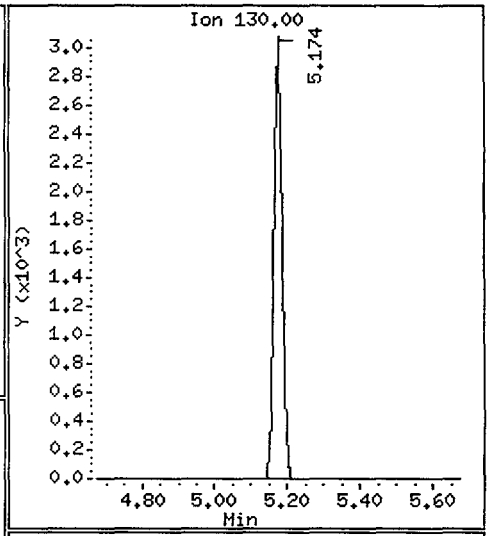
Column phase: J+W 624

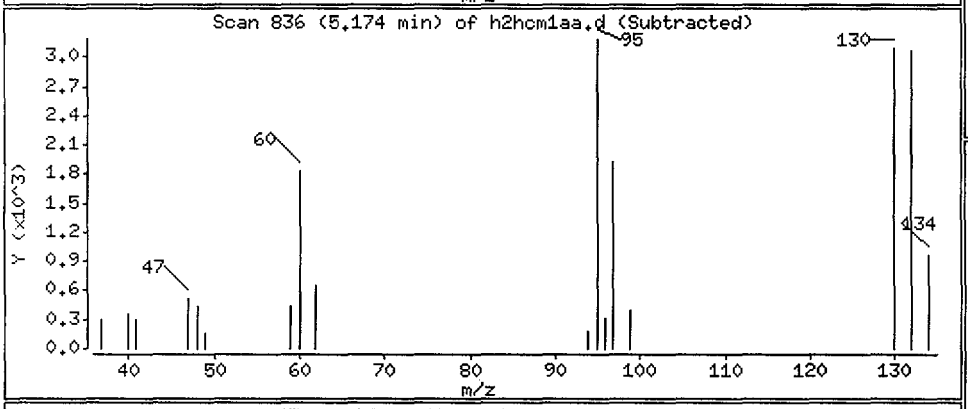
Column diameter: 0.18

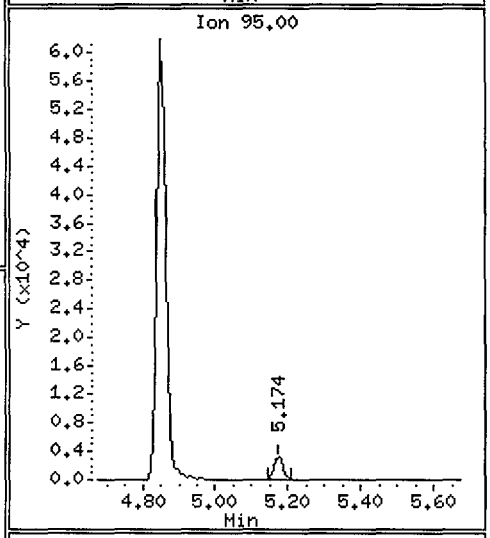
45 Trichloroethene

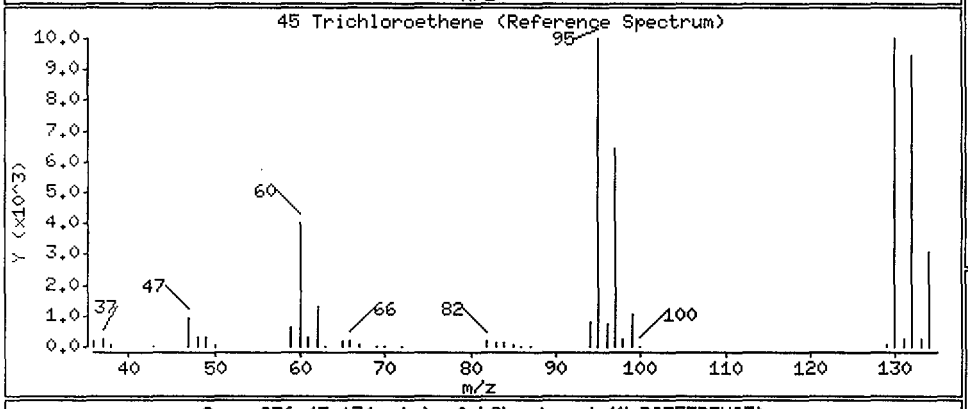
Concentration: 0.0036482 ug

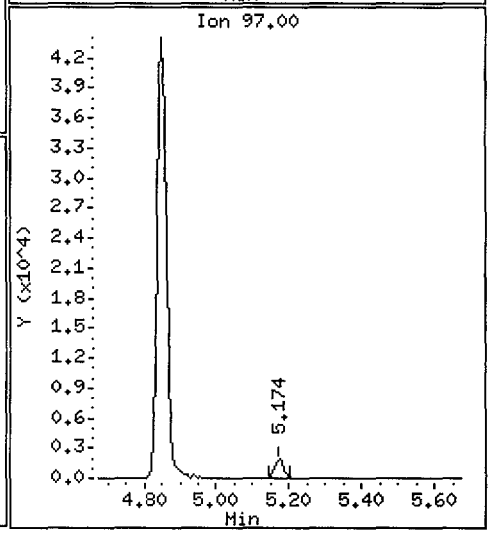


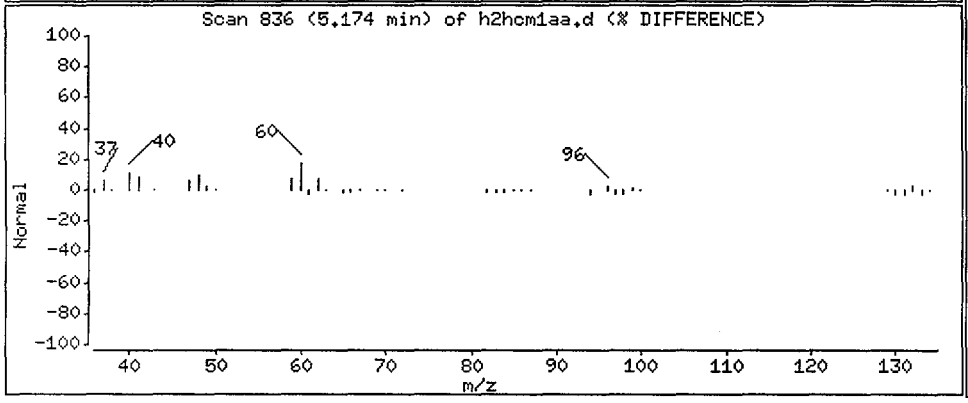












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

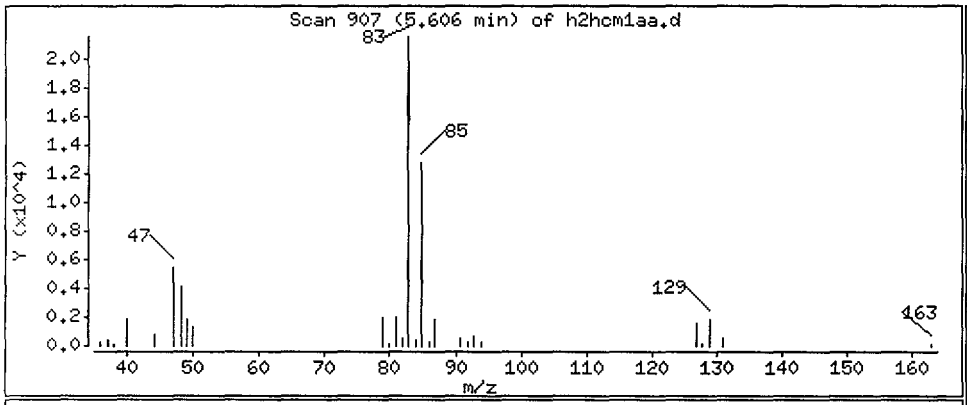
Operator: 22980

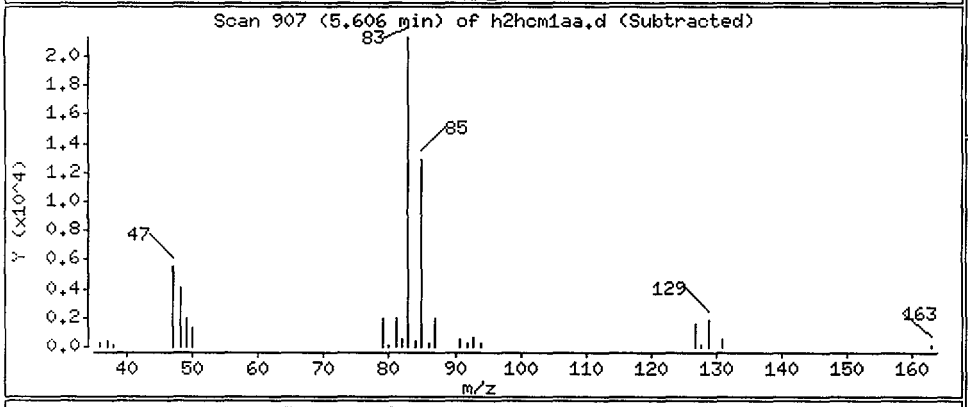
Column phase: J+W 624

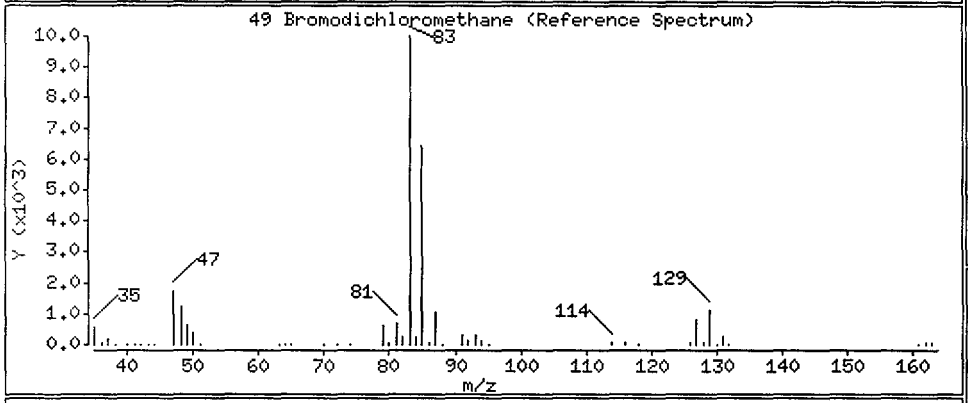
Column diameter: 0.18

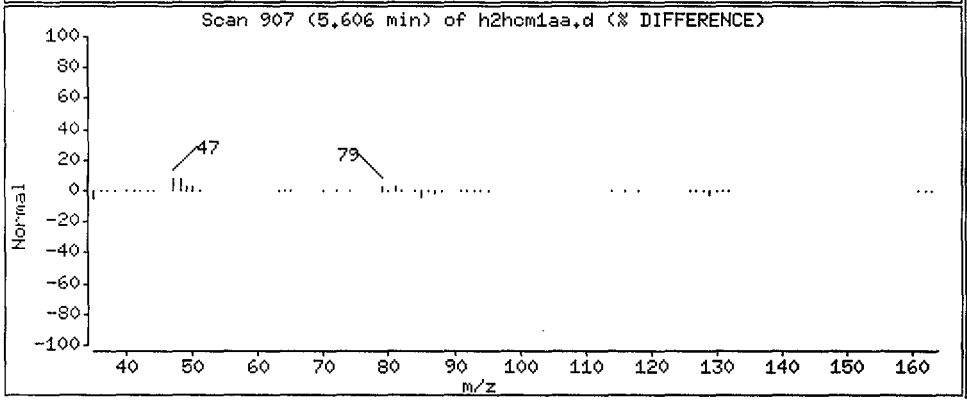
49 Bromodichloromethane

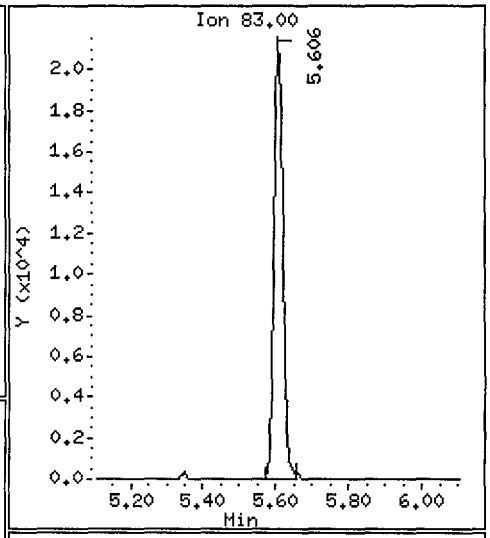
Concentration: 0.036343 ug

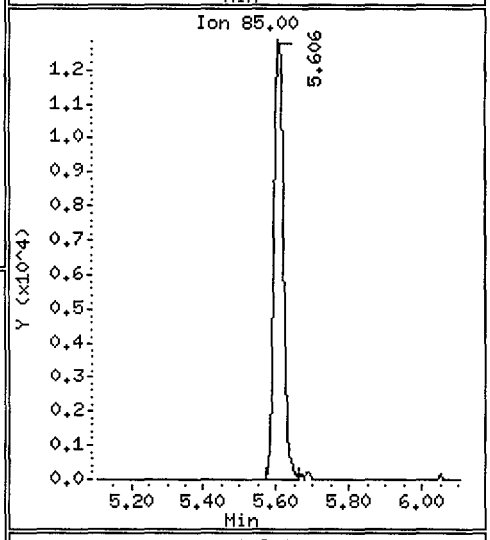


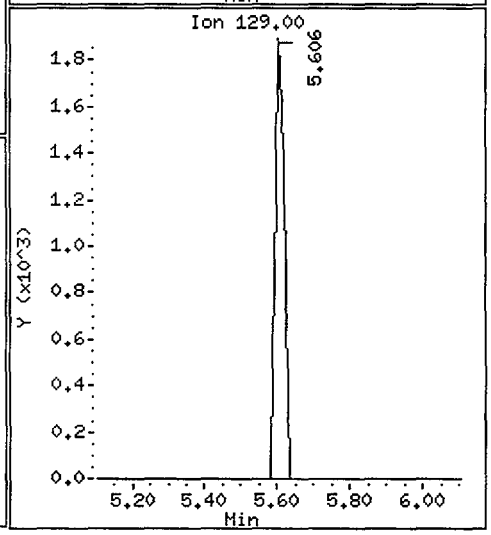












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

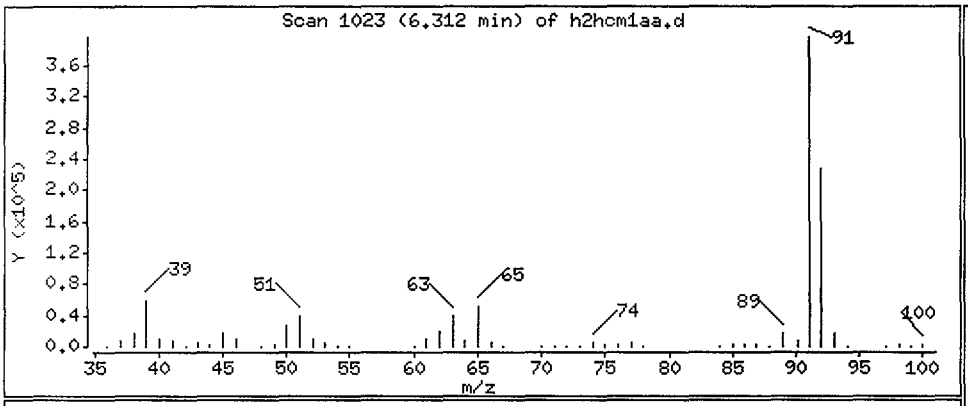
Operator: 22980

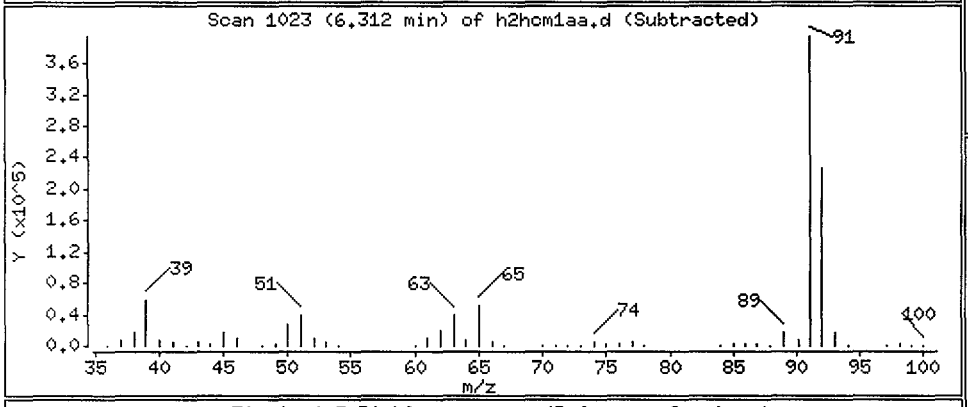
Column phase: J+W 624

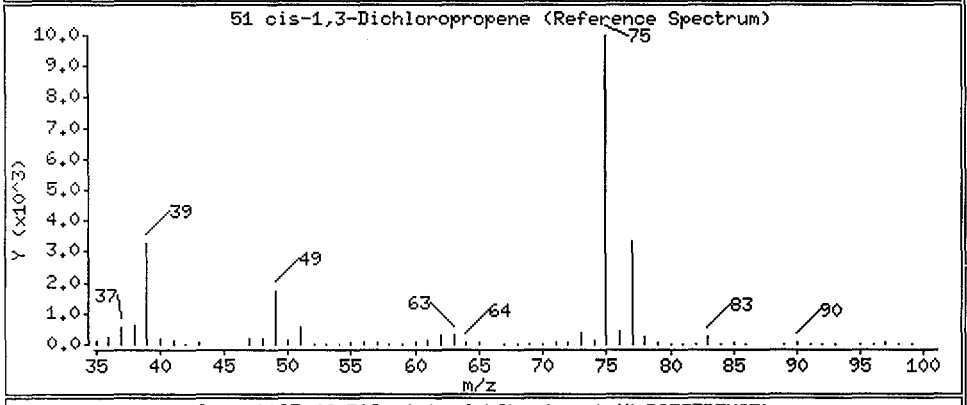
Column diameter: 0.18

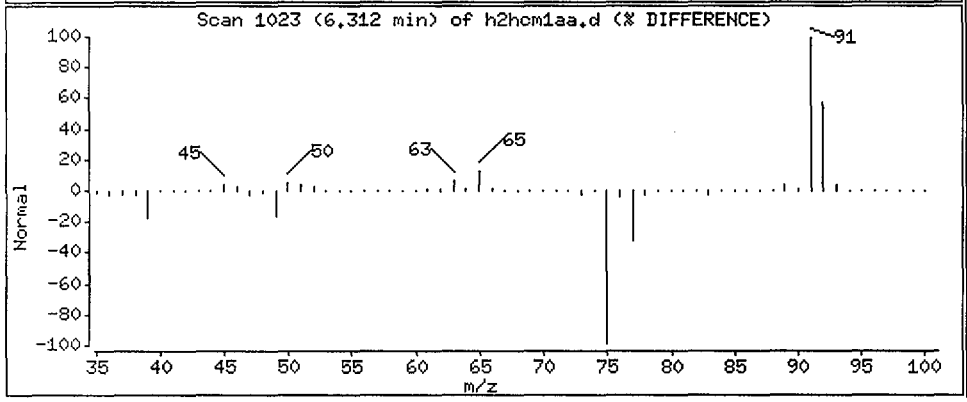
51 cis-1,3-Dichloropropene

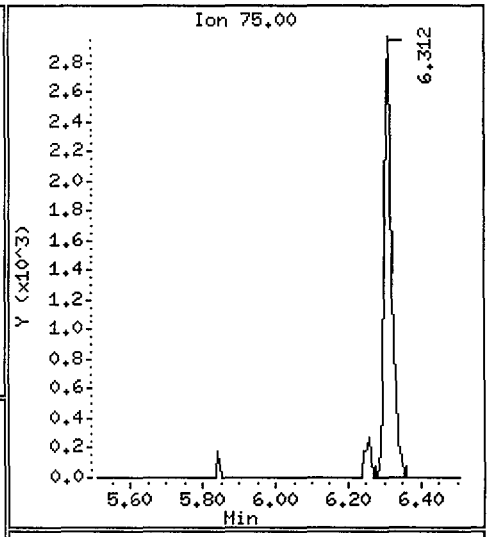
Concentration: 0.0040412 ug

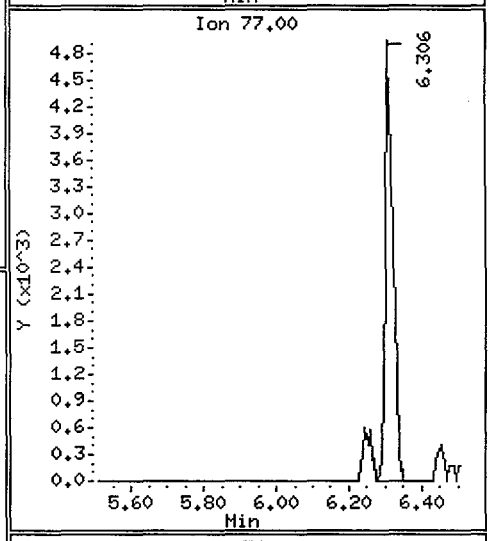


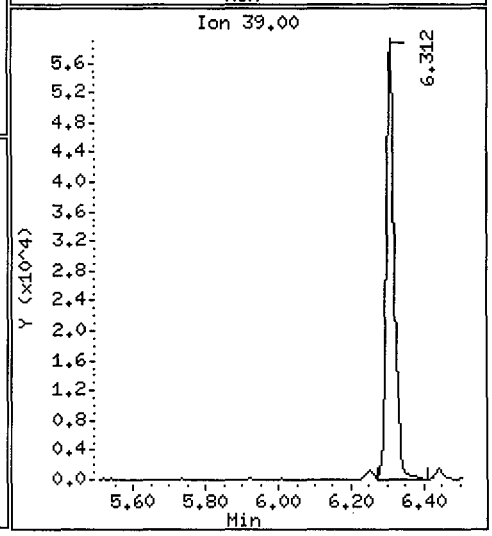












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

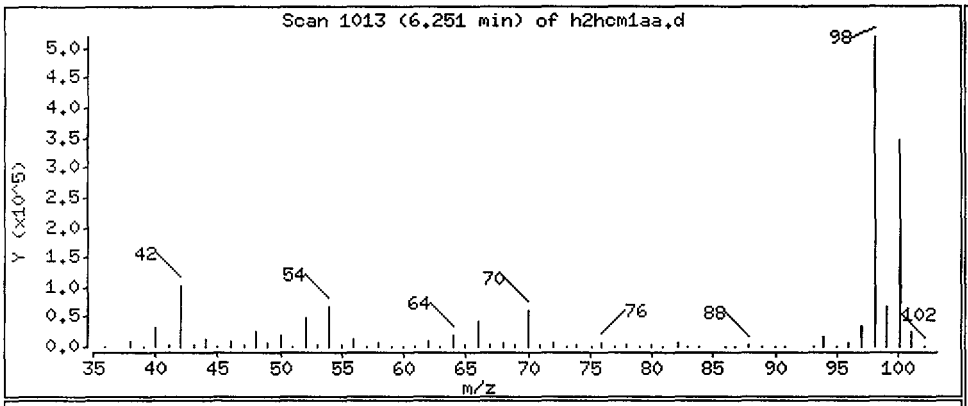
Operator: 22980

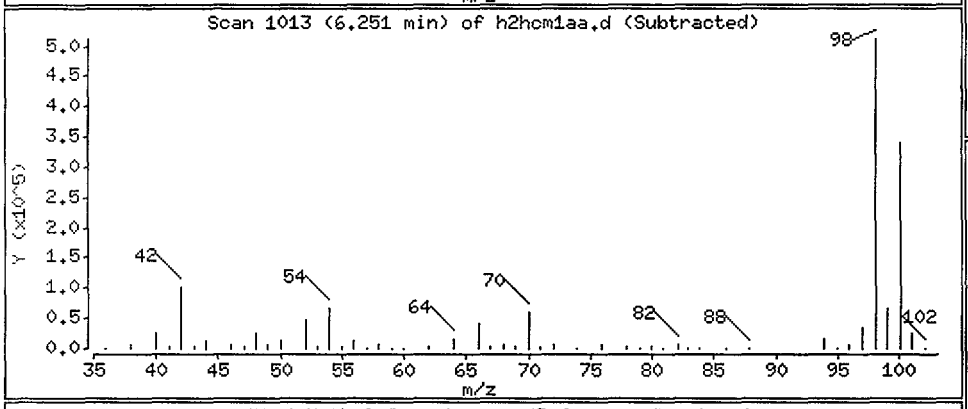
Column phase: J+W 624

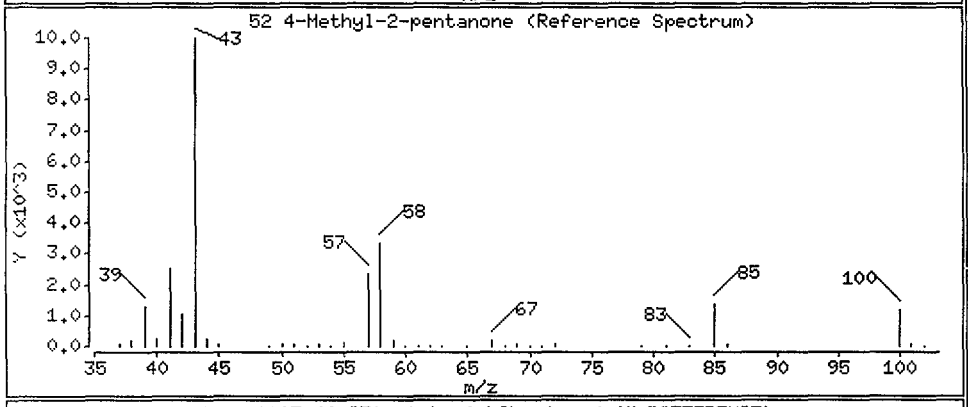
Column diameter: 0.18

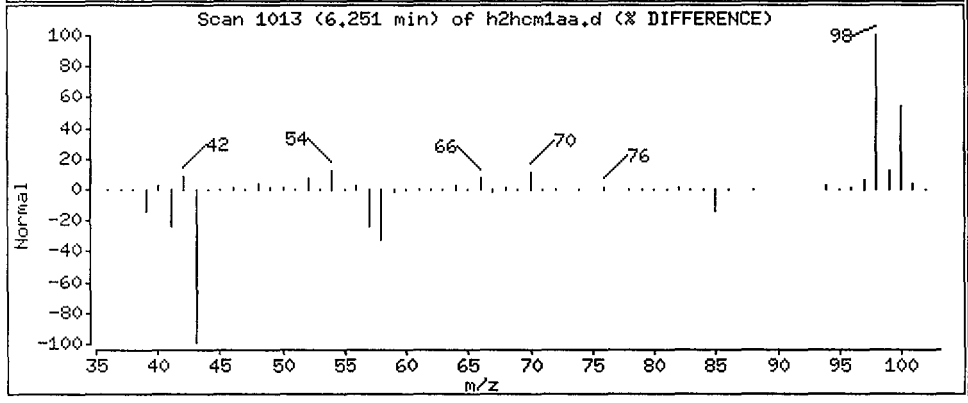
52 4-Methyl-2-pentanone

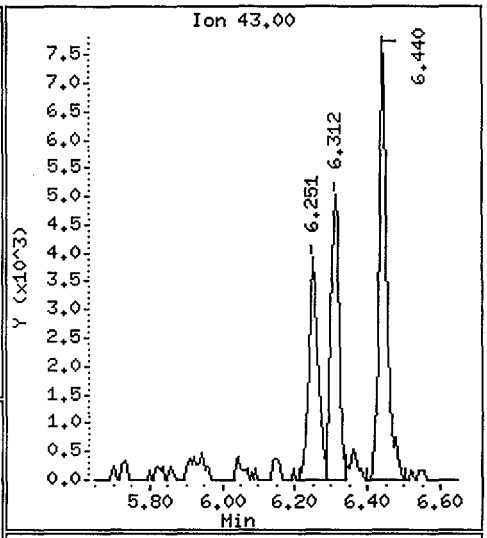
Concentration: 0.029460 ug

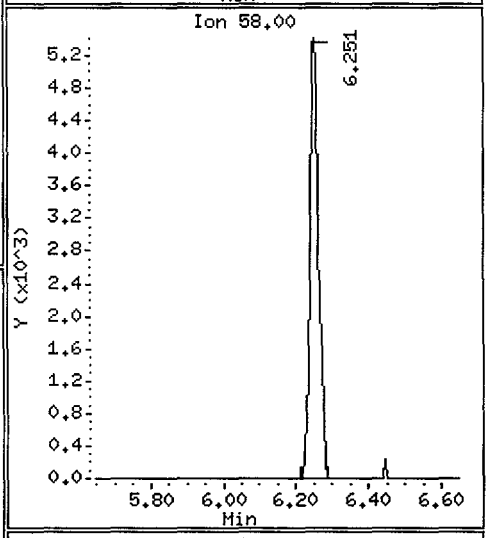


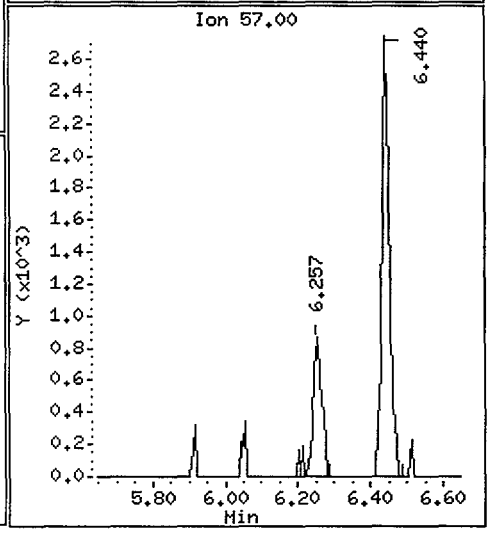












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

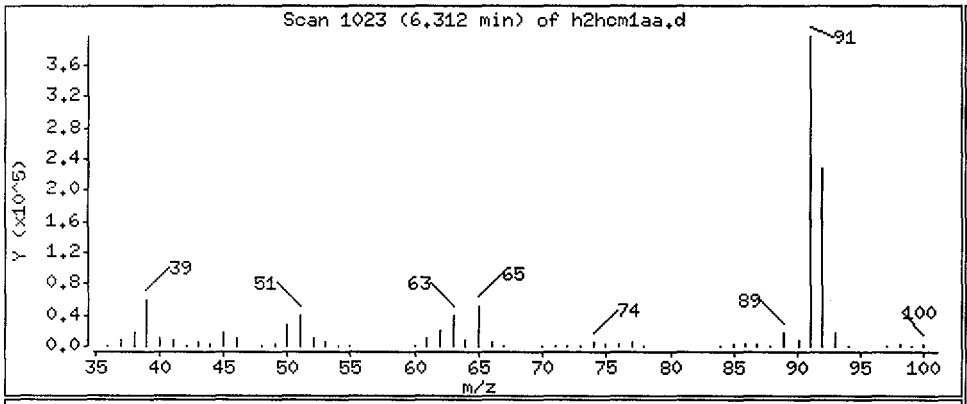
Operator: 22980

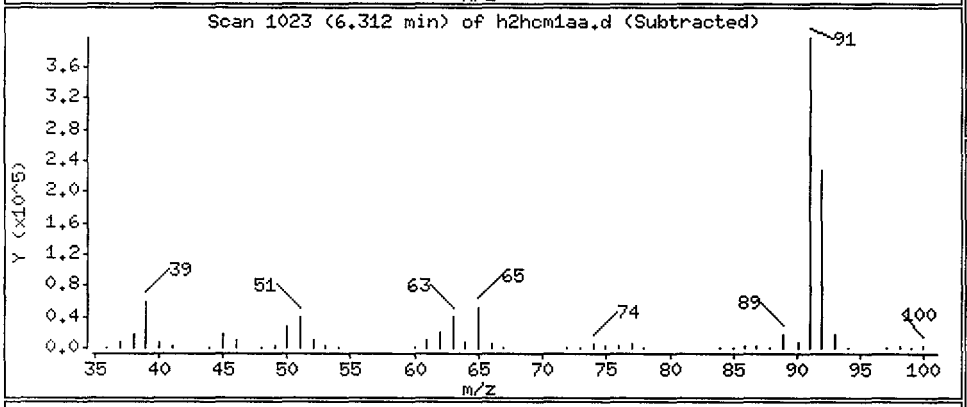
Column phase: J+W 624

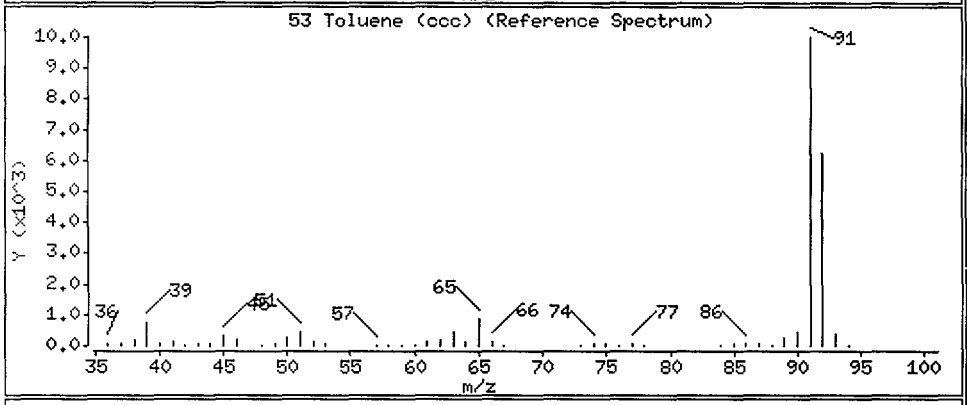
Column diameter: 0.18

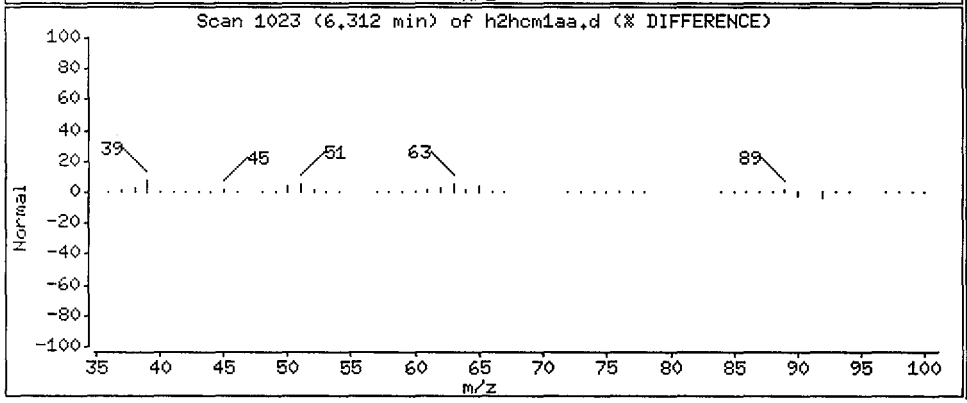
53 Toluene (ccc)

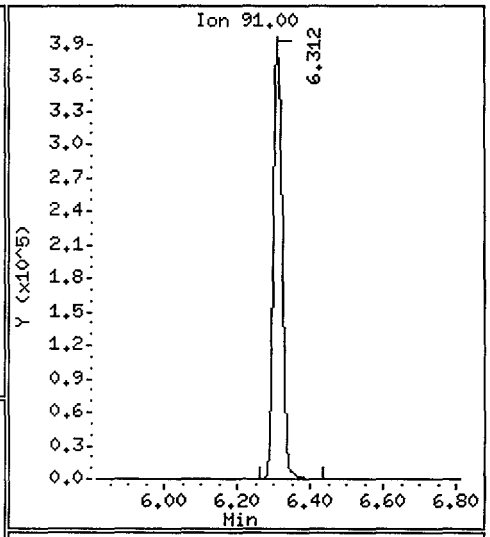
Concentration: 0.12117 ug

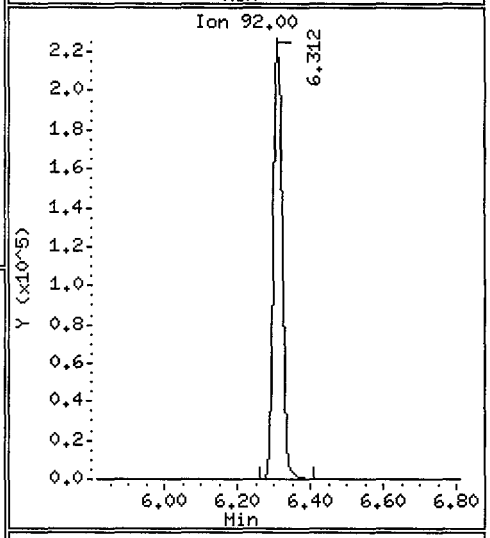


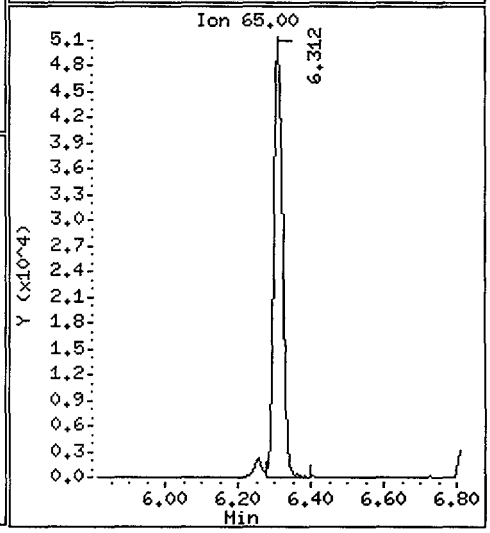












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

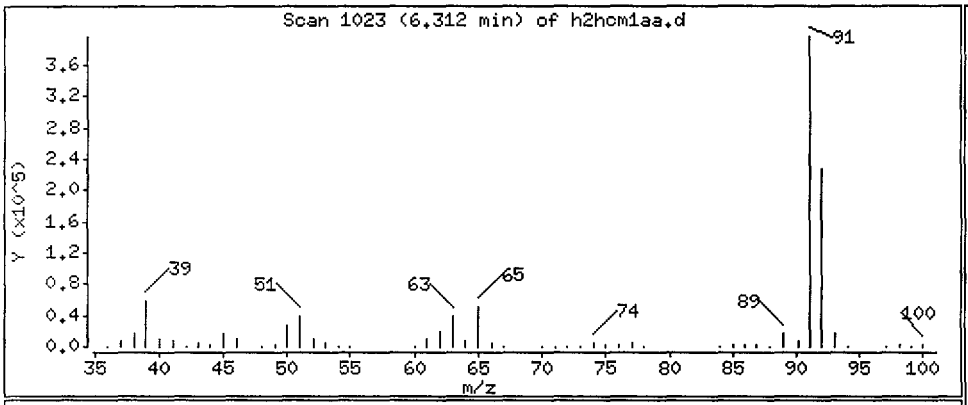
Operator: 22980

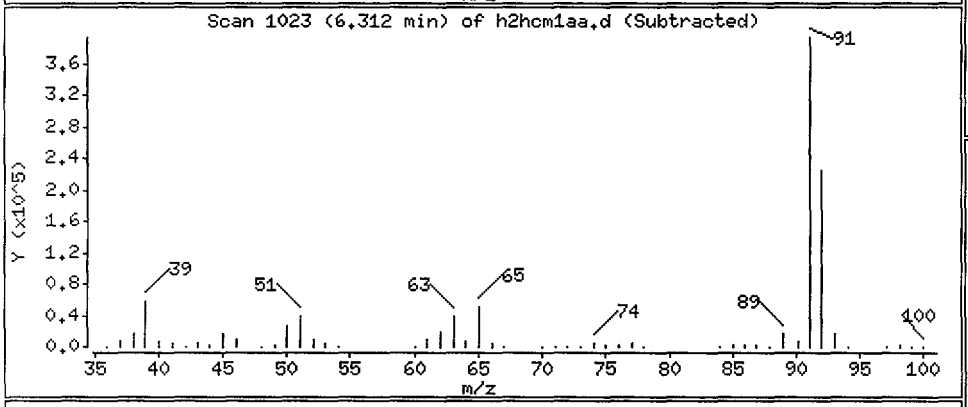
Column phase: J+W 624

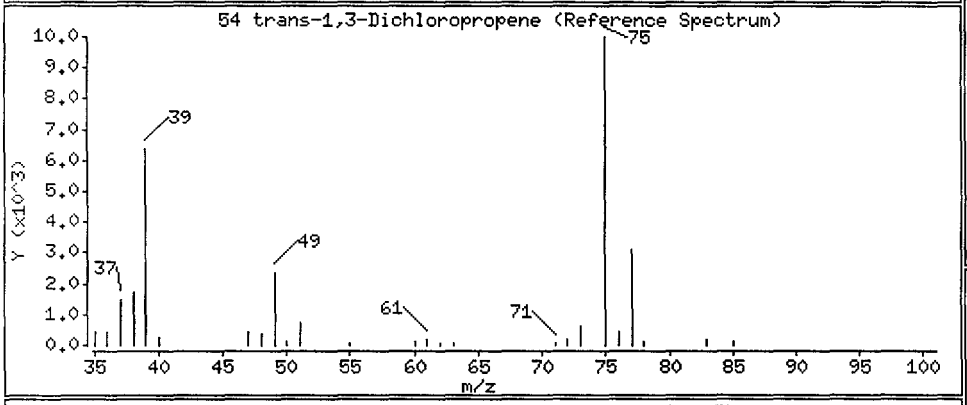
Column diameter: 0.18

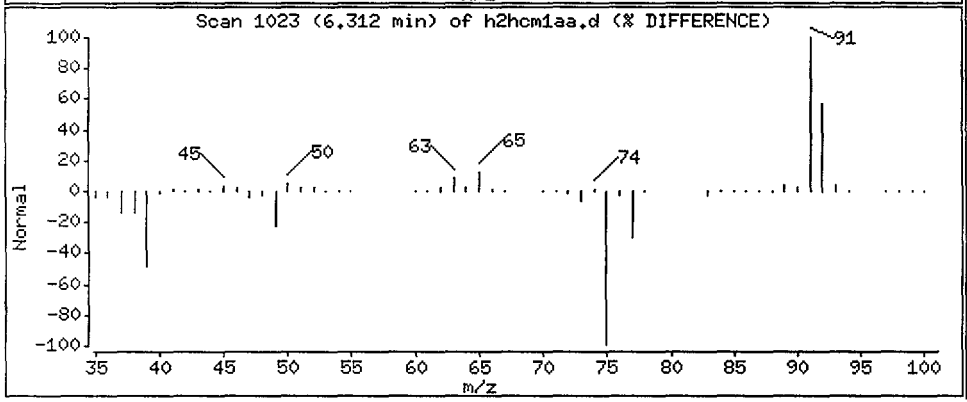
54 trans-1,3-Dichloropropene

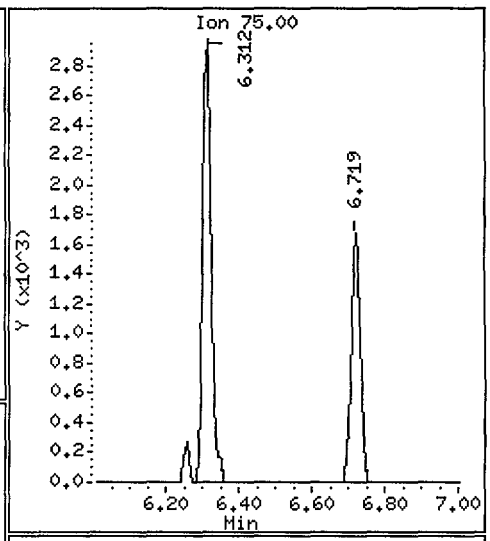
Concentration: 0.0049352 ug

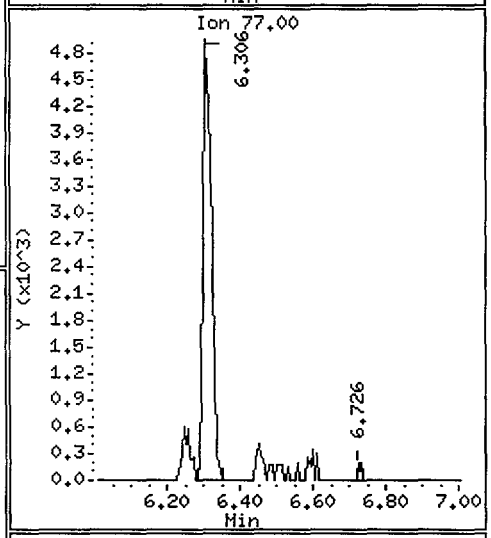


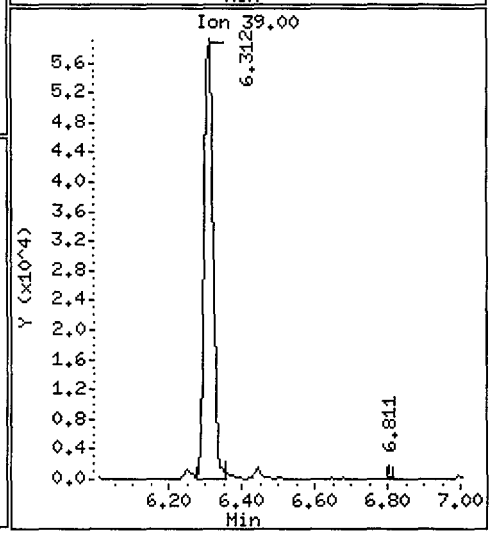












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

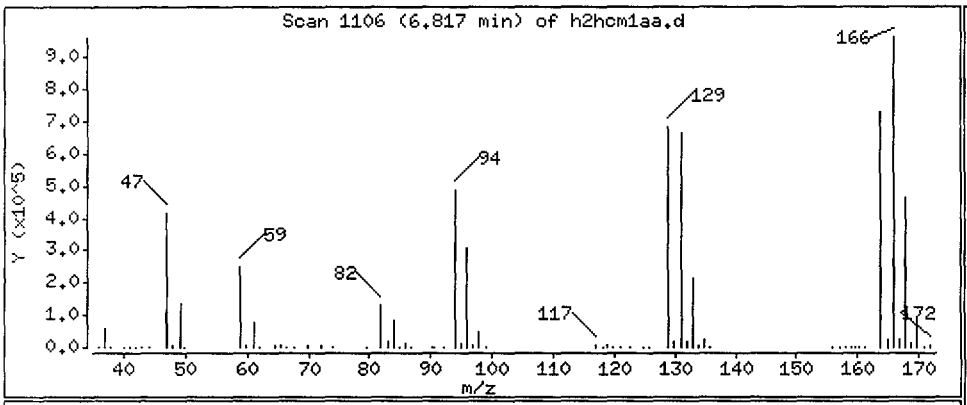
Operator: 22980

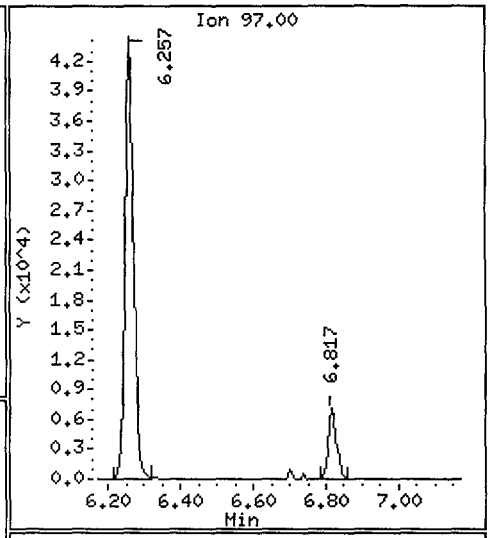
Column phase: J+W 624

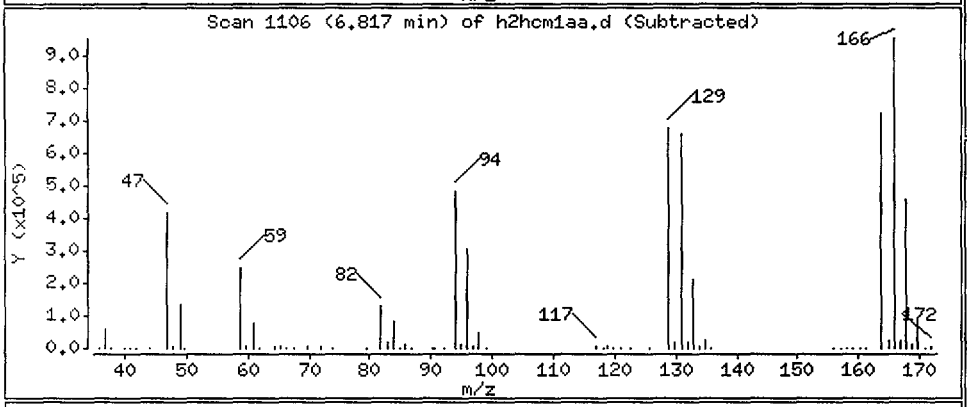
Column diameter: 0.18

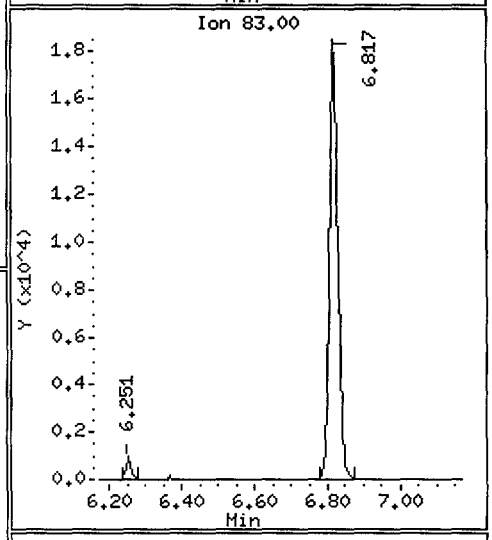
56 1,1,2-Trichloroethane

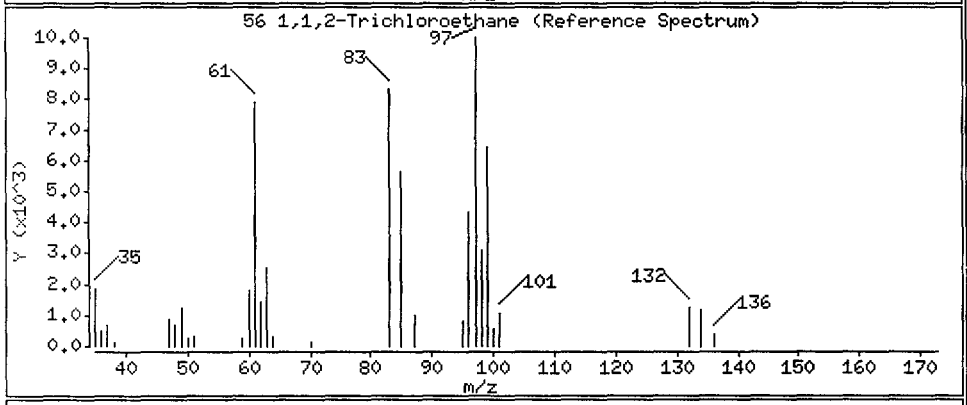
Concentration: 0.027780 ug

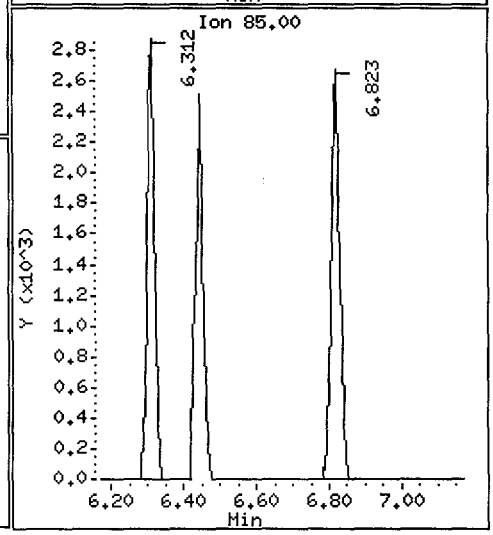


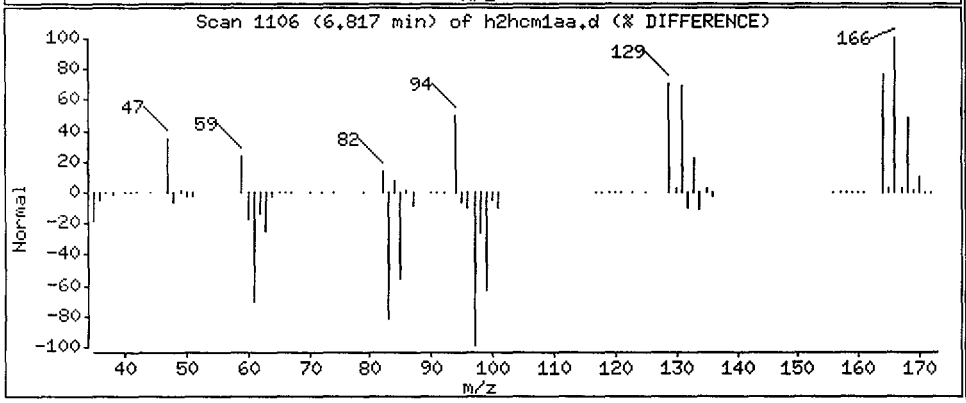












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

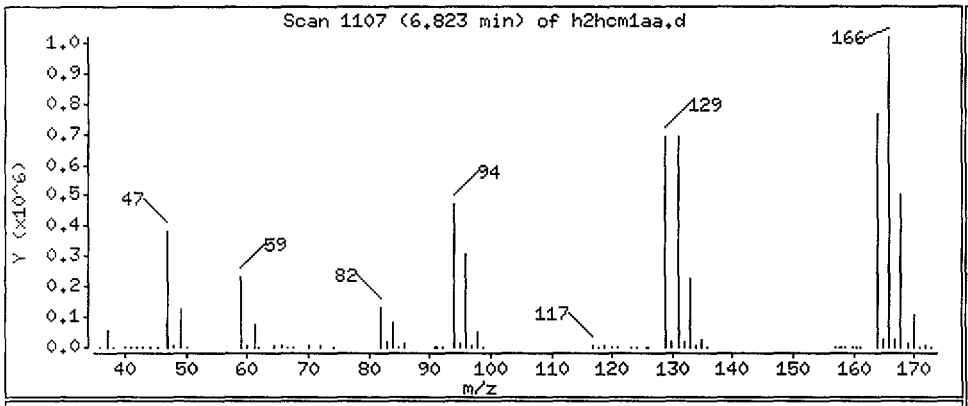
Operator: 22980

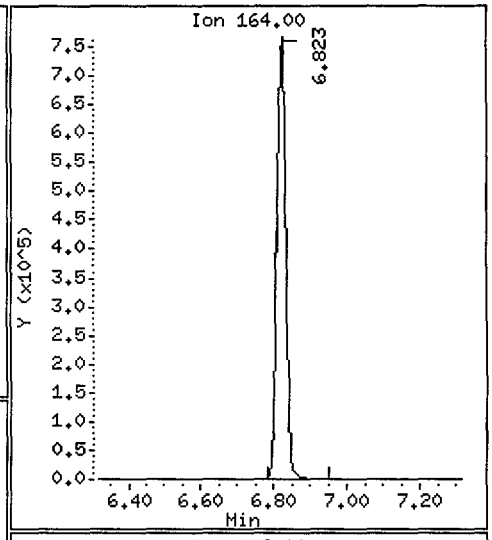
Column phase: J+W 624

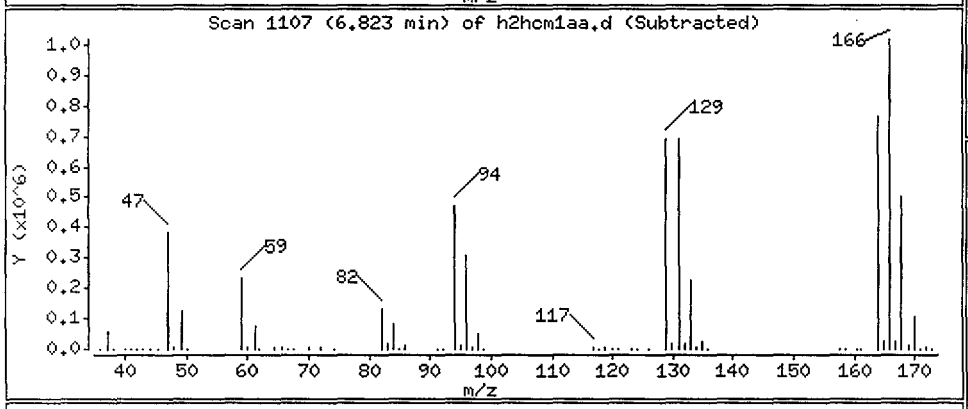
Column diameter: 0.18

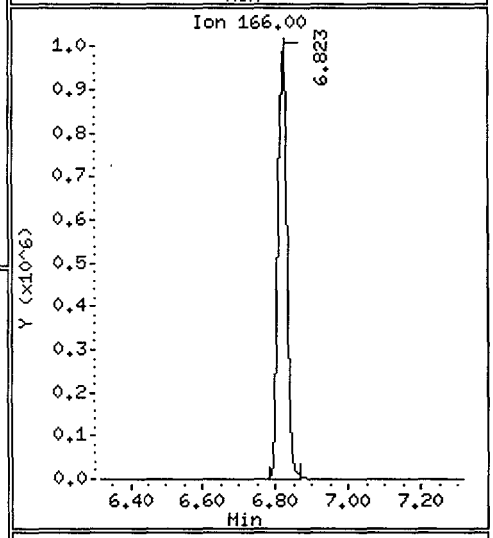
57 Tetrachloroethene

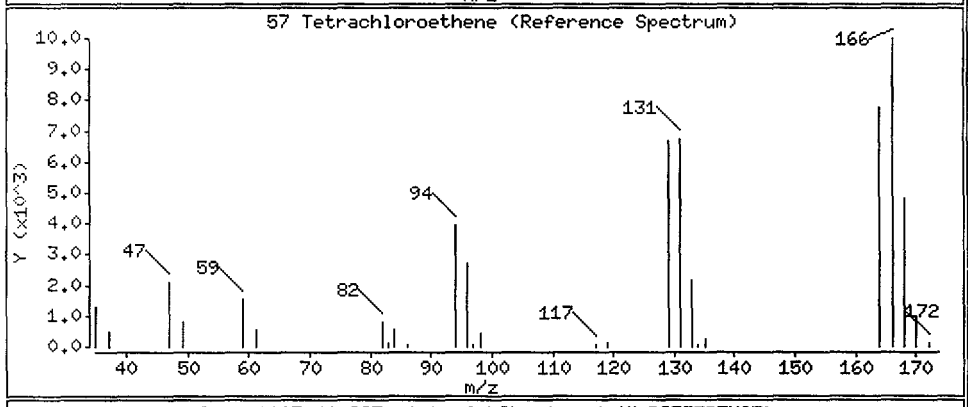
Concentration: 1.1304 ug

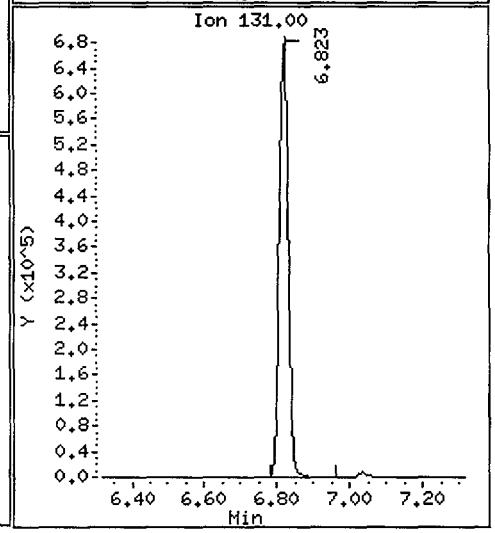


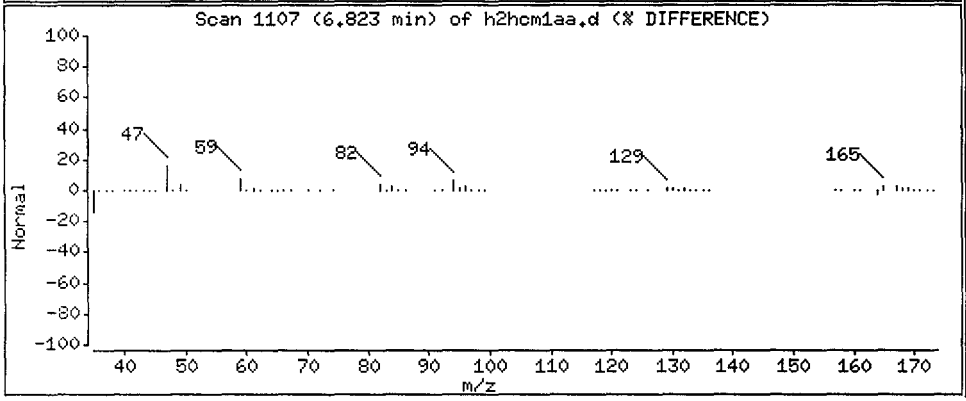












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

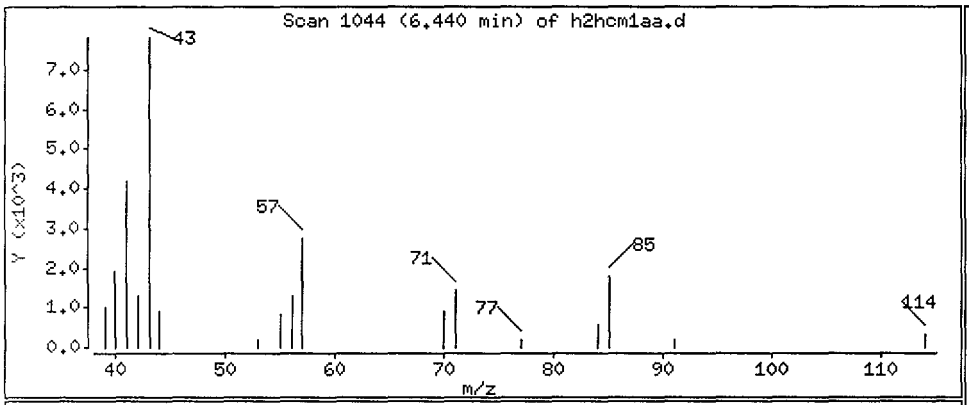
Operator: 22980

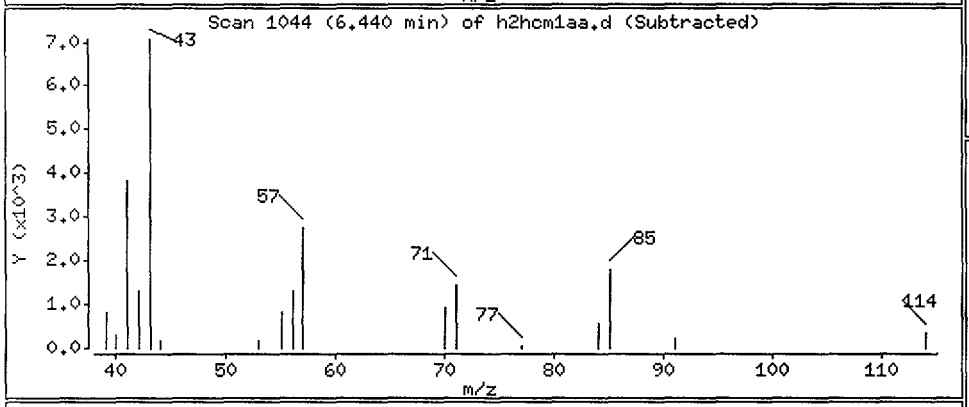
Column phase: J+W 624

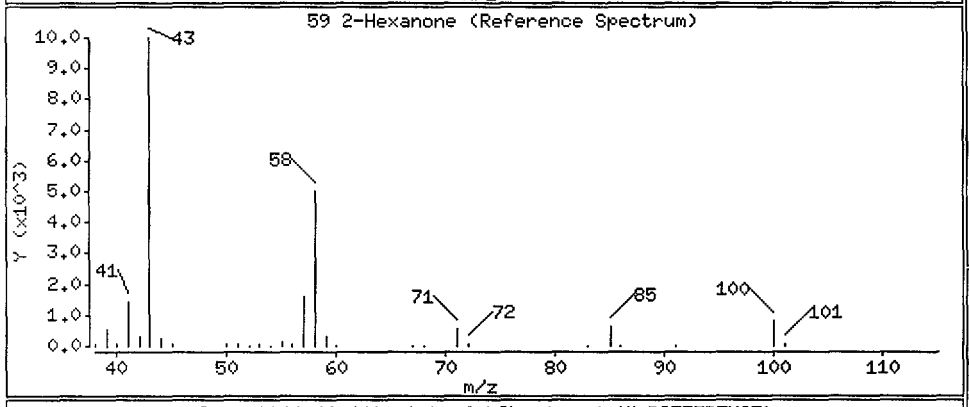
Column diameter: 0.18

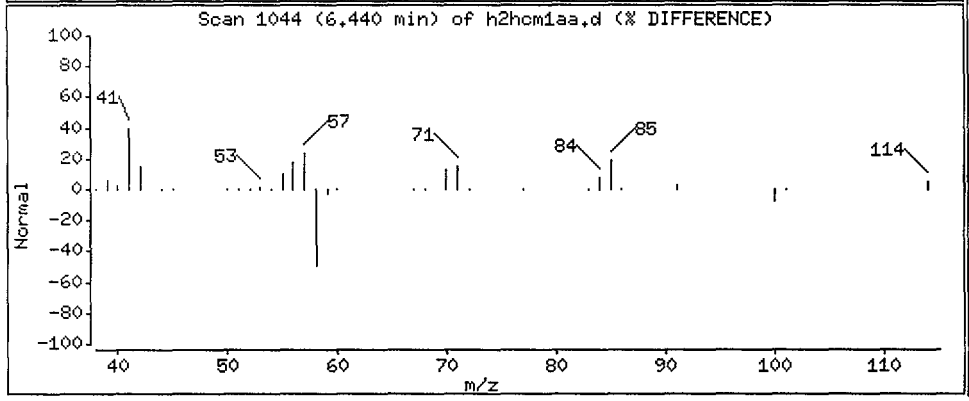
59 2-Hexanone

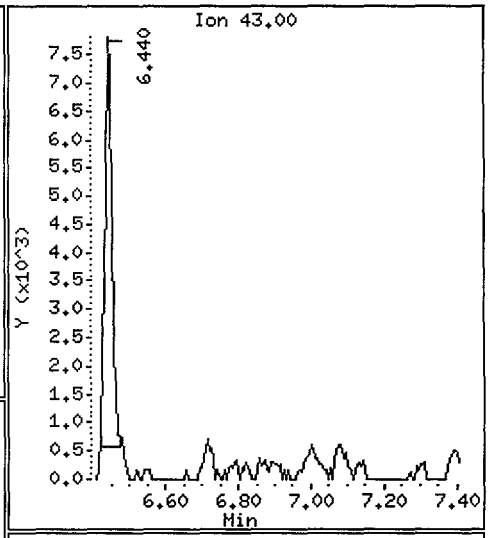
Concentration: 0.056072 ug

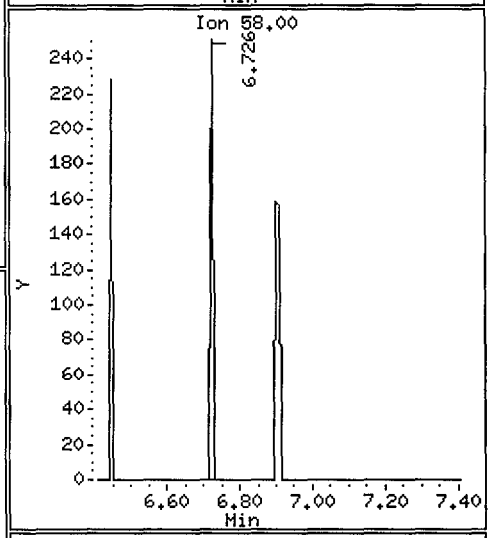


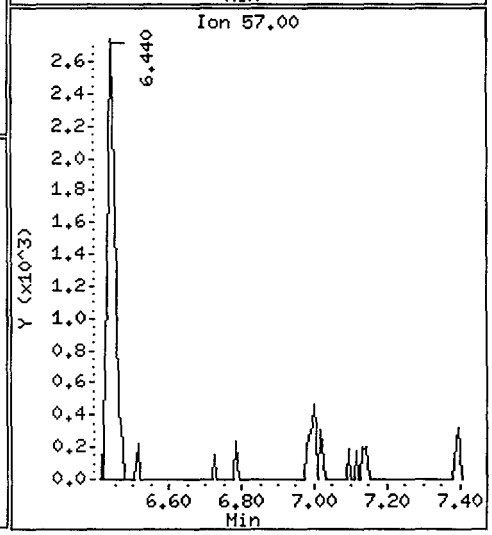












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

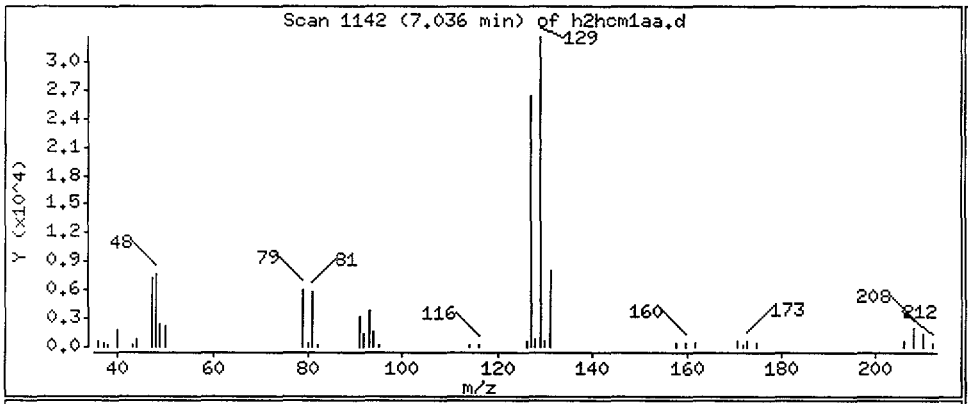
Operator: 22980

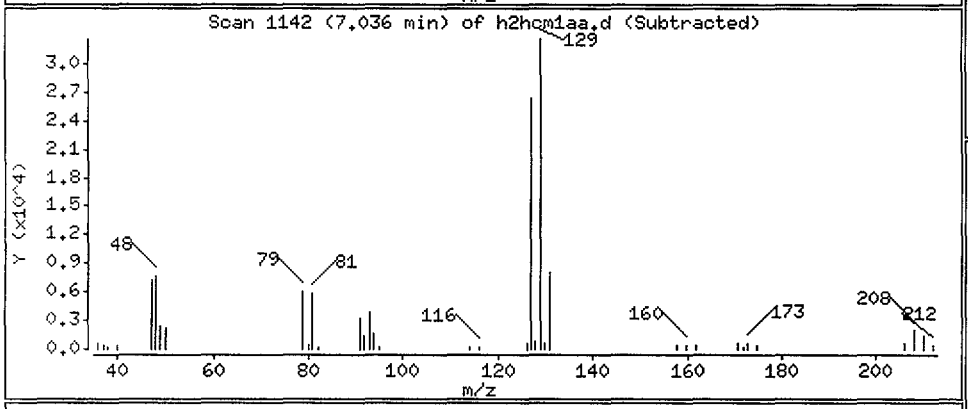
Column phase: J+W 624

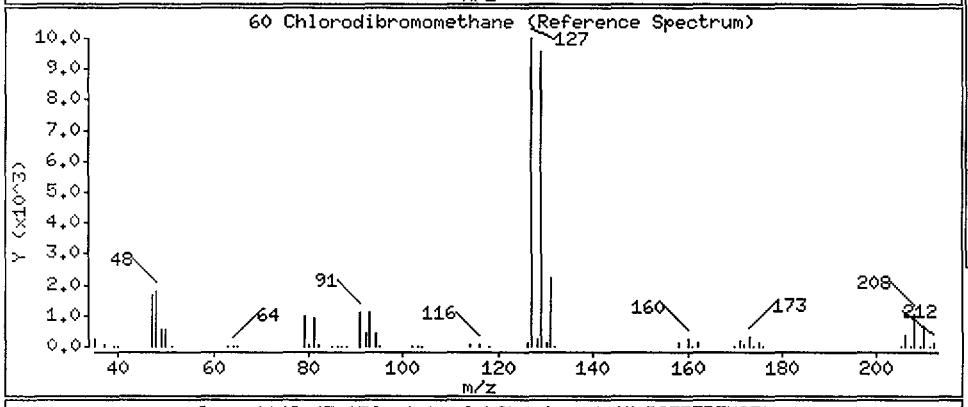
Column diameter: 0.18

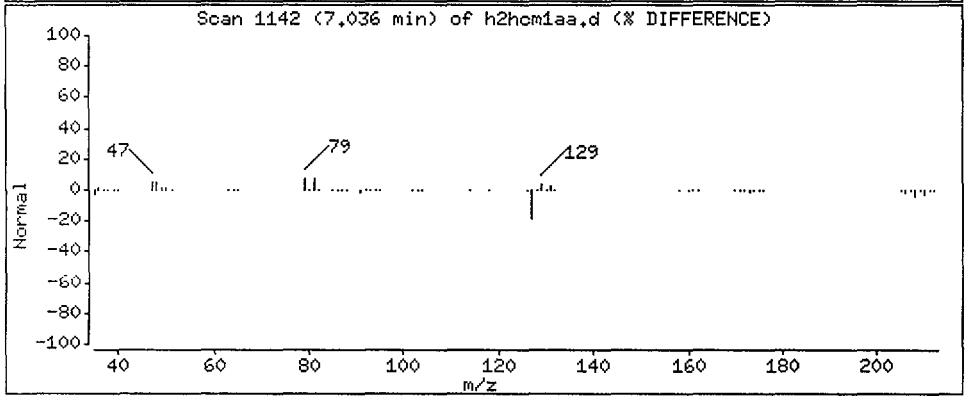
60 Chlorodibromomethane

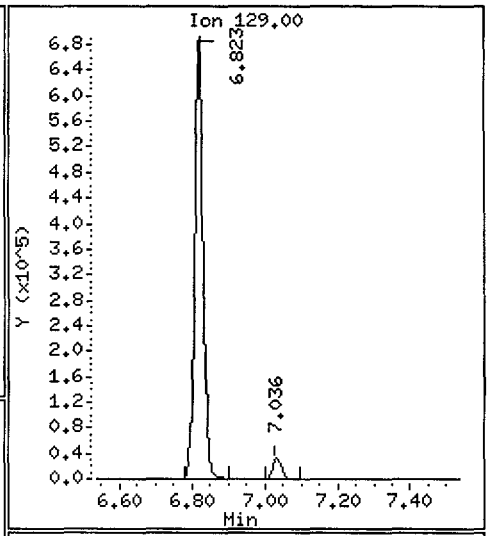
Concentration: 0.10368 ug

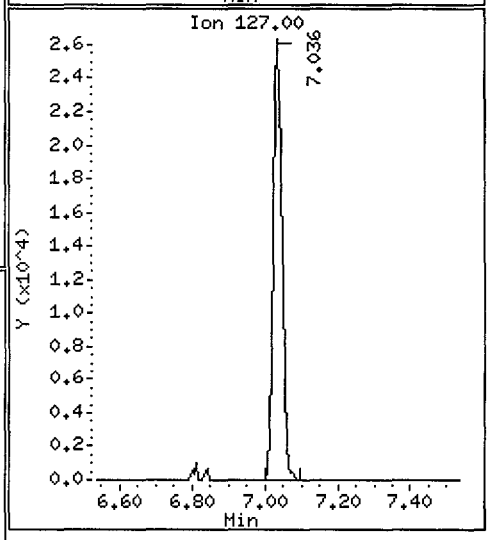












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

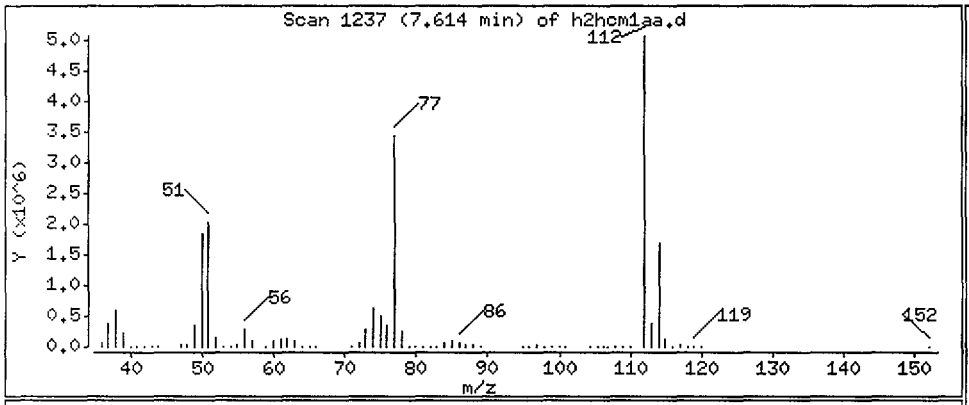
Operator: 22980

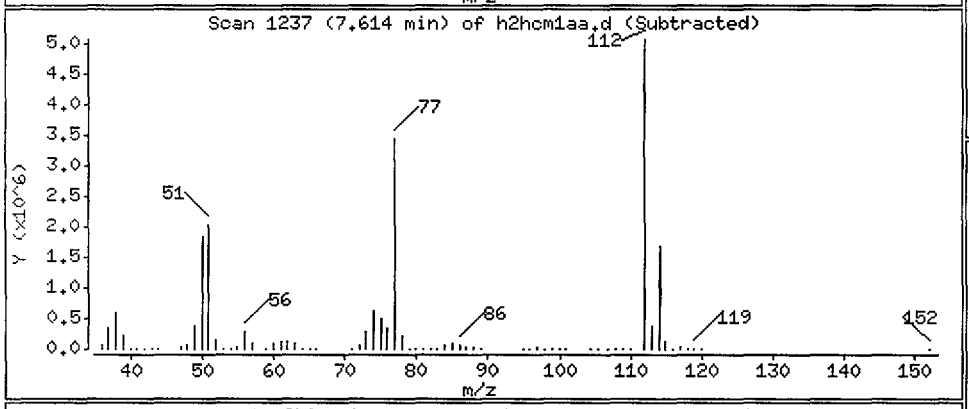
Column phase: J+W 624

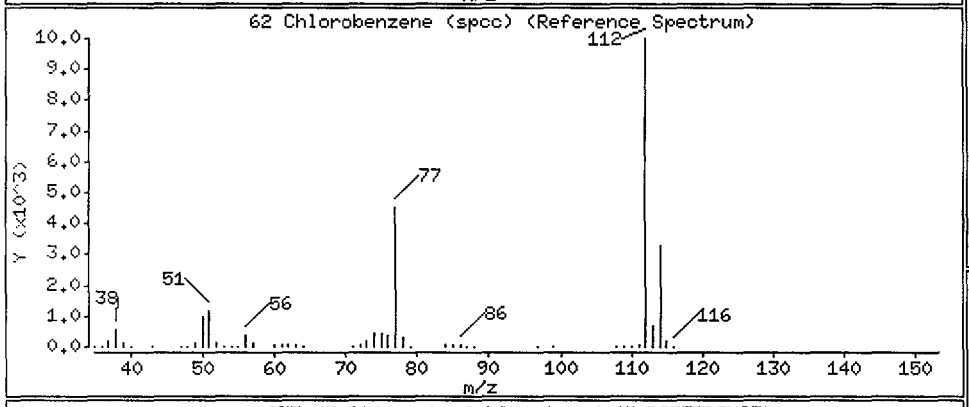
Column diameter: 0.18

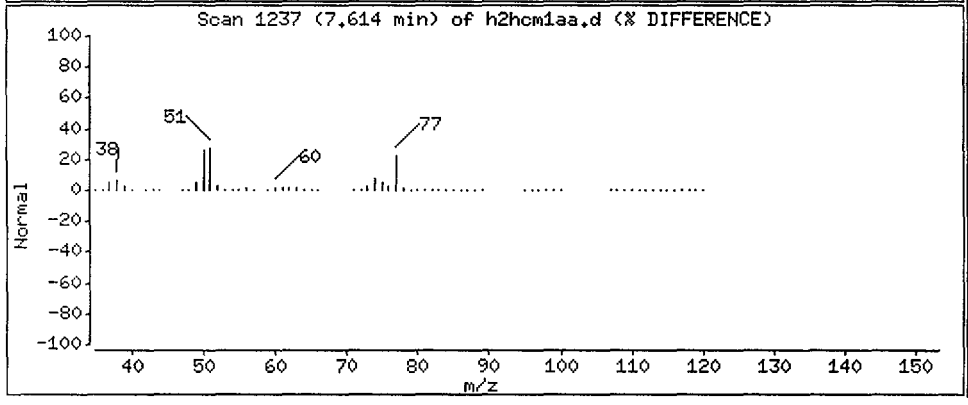
62 Chlorobenzene (spcc)

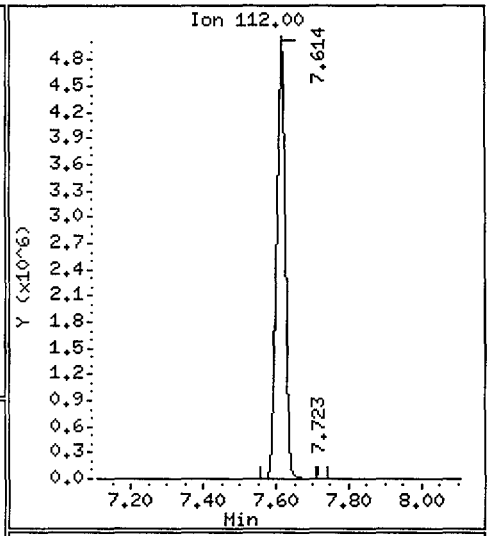
Concentration: 3.1098 ug

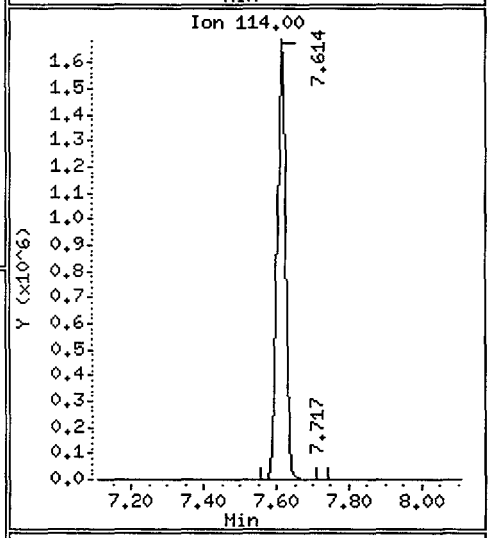


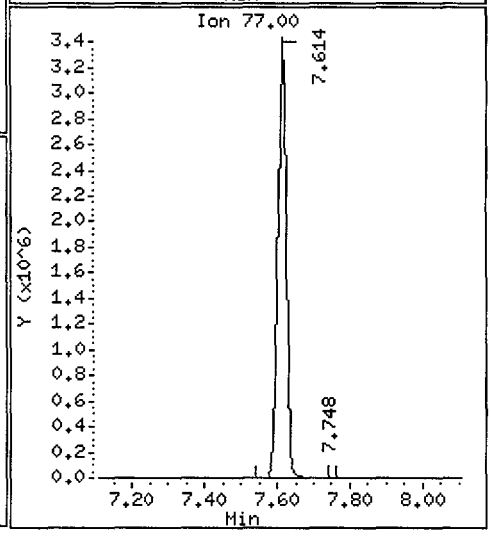












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

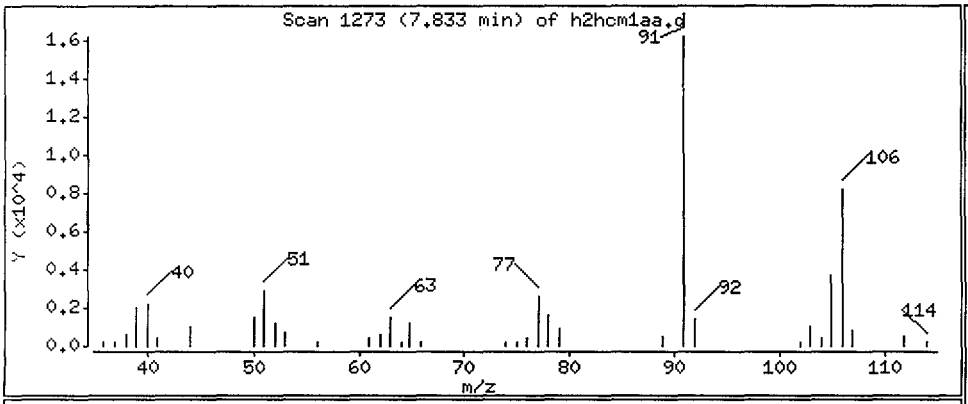
Operator: 22980

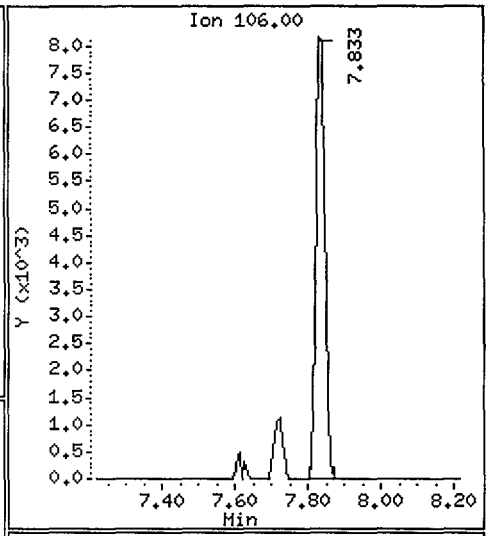
Column phase: J+W 624

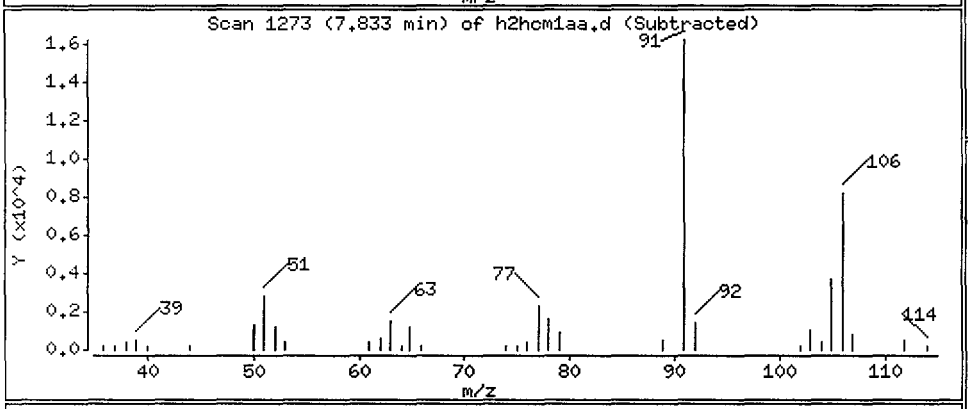
Column diameter: 0.18

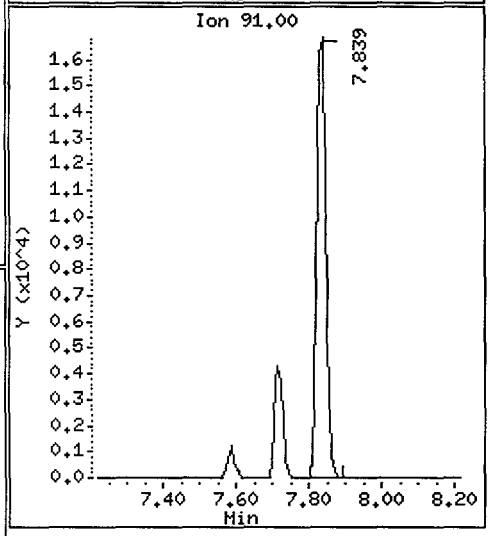
64 Ethylbenzene (ccc)

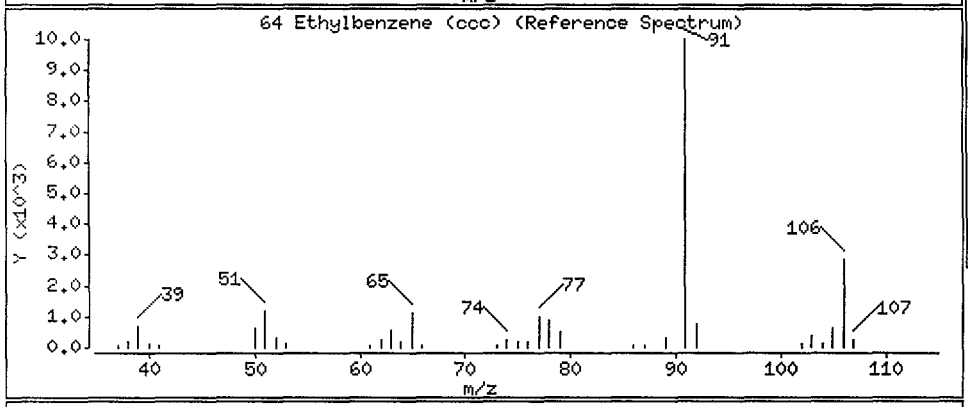
Concentration: 0.0071972 ug

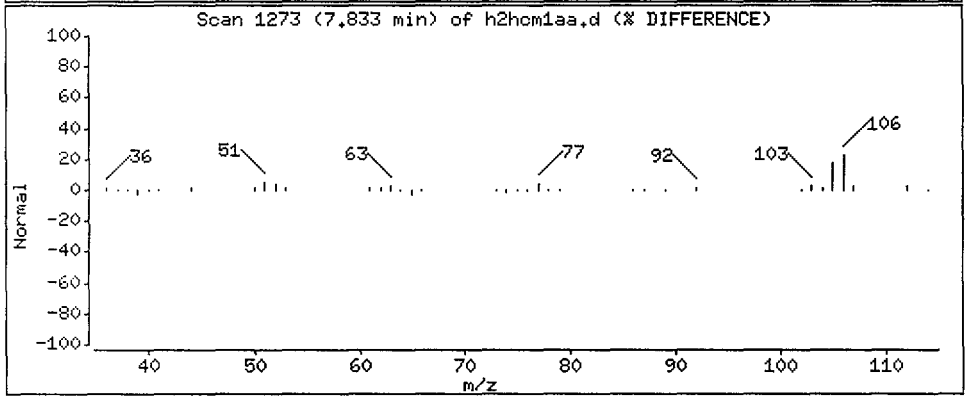












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

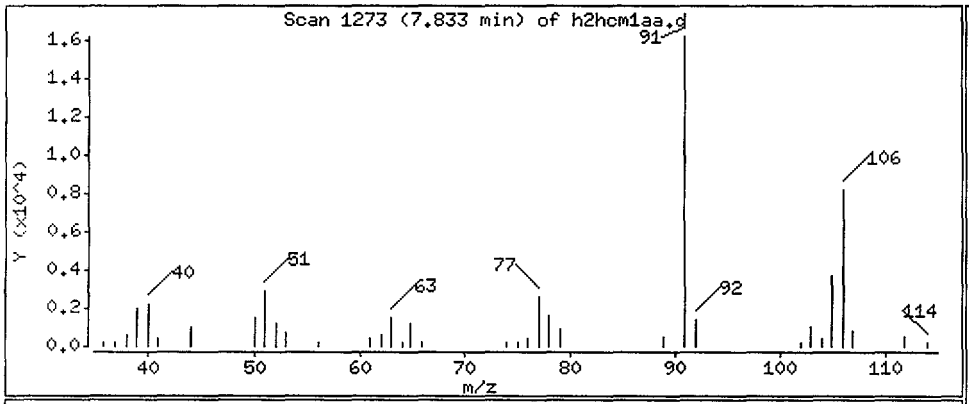
Operator: 22980

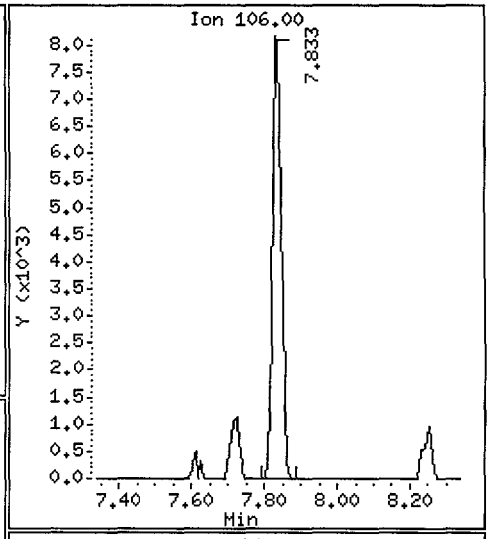
Column phase: J+W 624

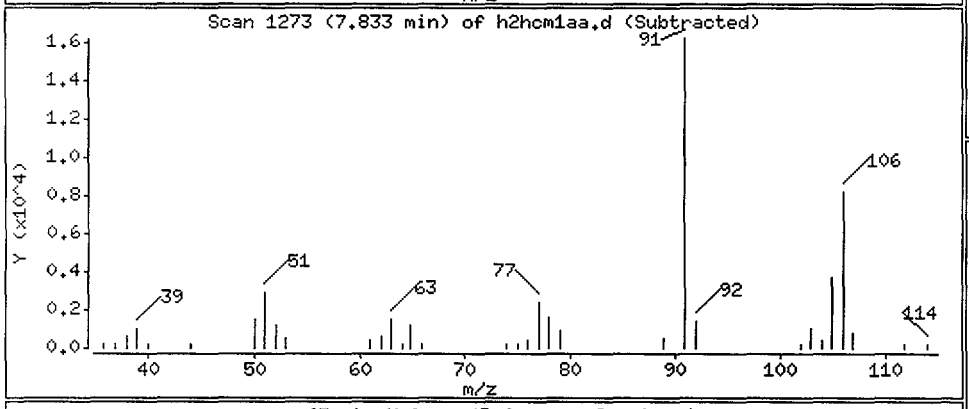
Column diameter: 0.18

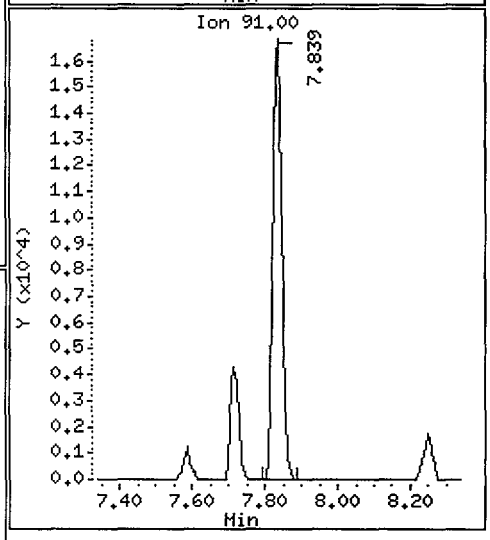
65 m&p-Xylene

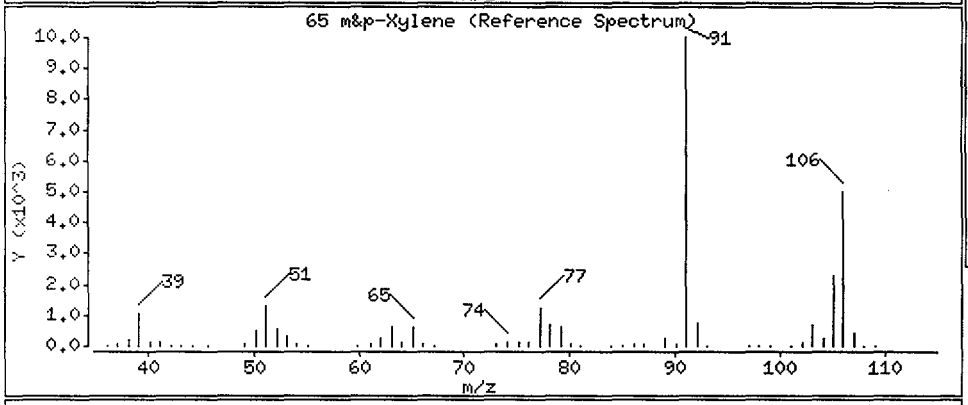
Concentration: 0.0061412 ug

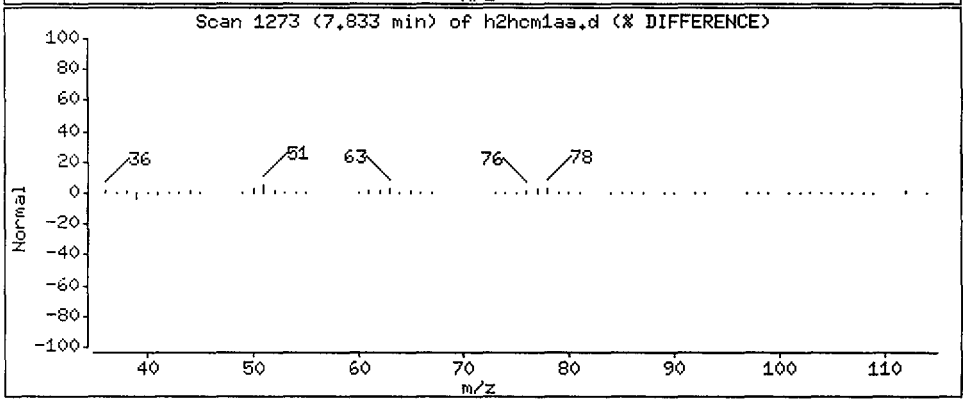












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

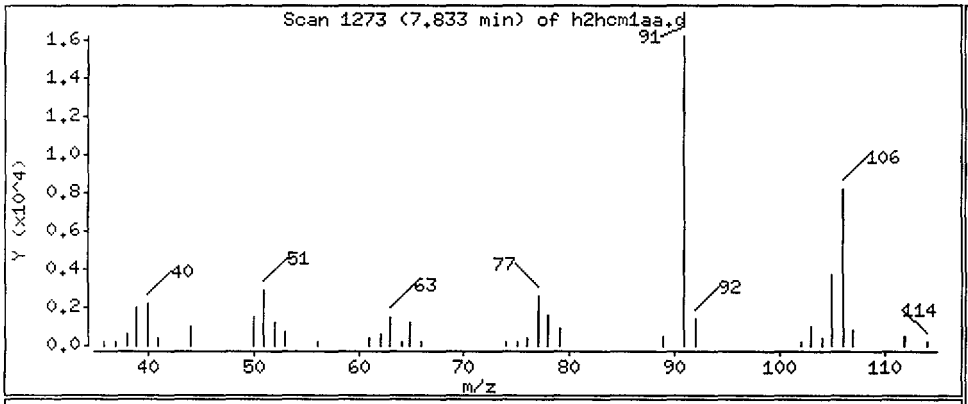
Operator: 22980

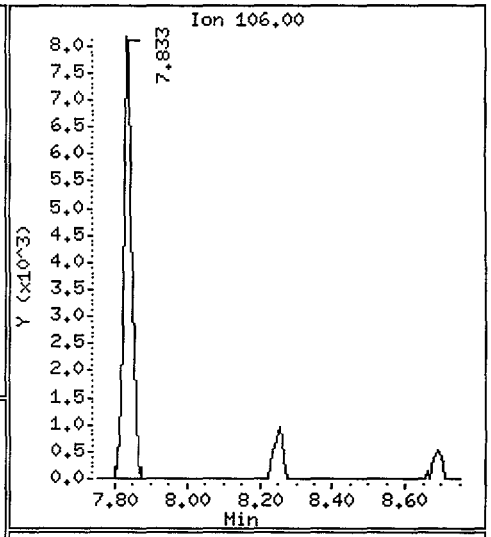
Column phase: J+W 624

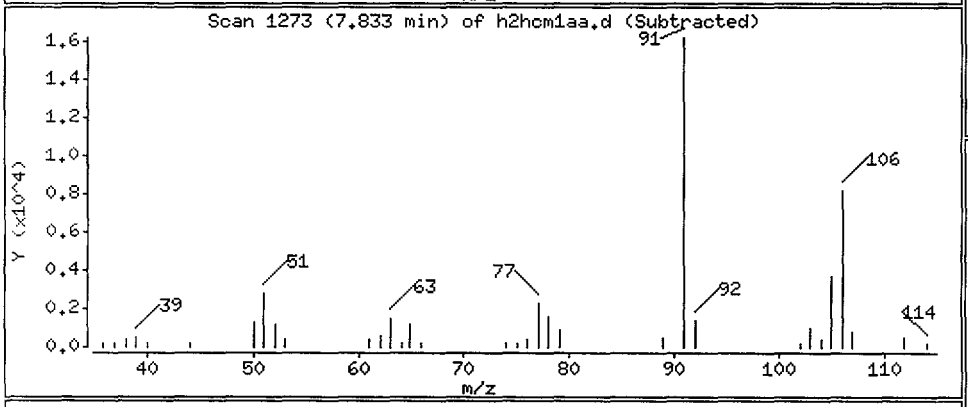
Column diameter: 0.18

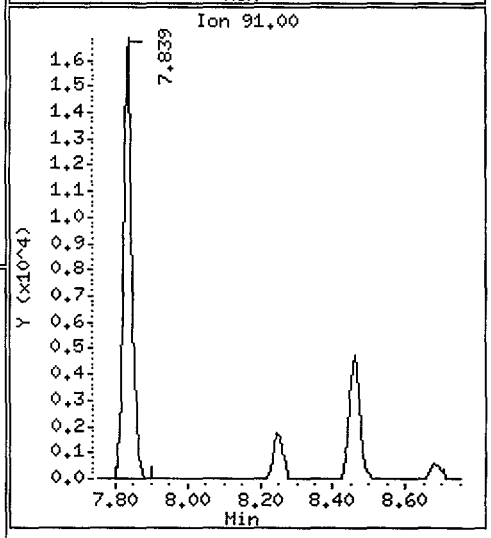
66 o-Xylene

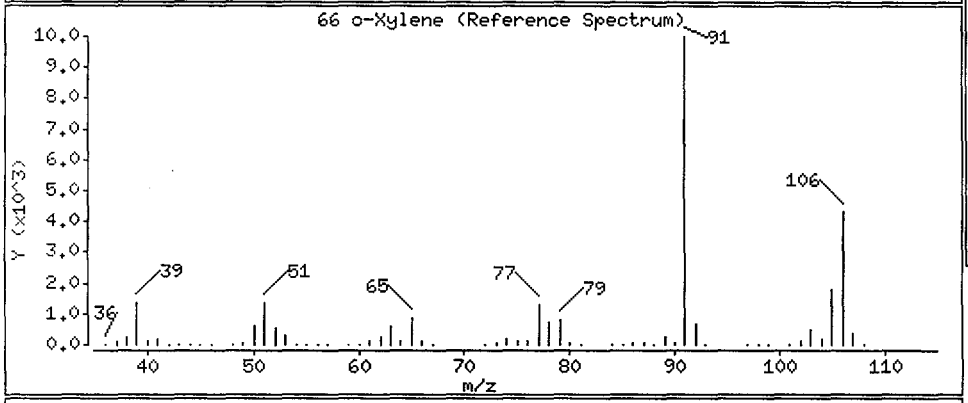
Concentration: 0.0071635 ug

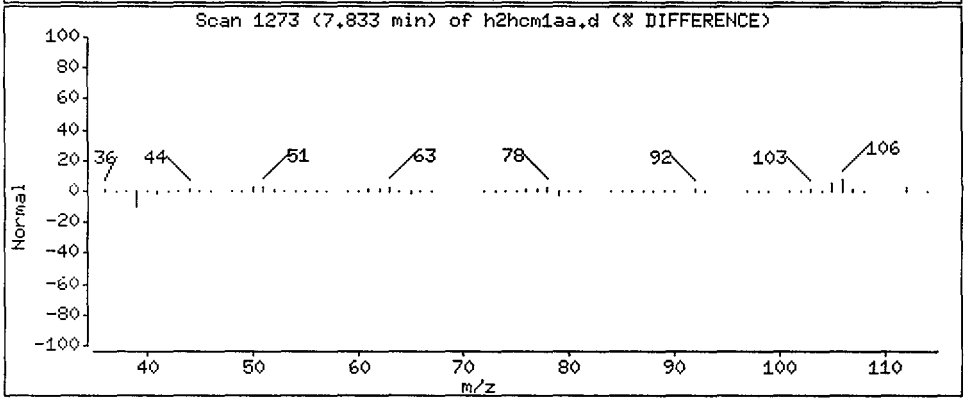












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

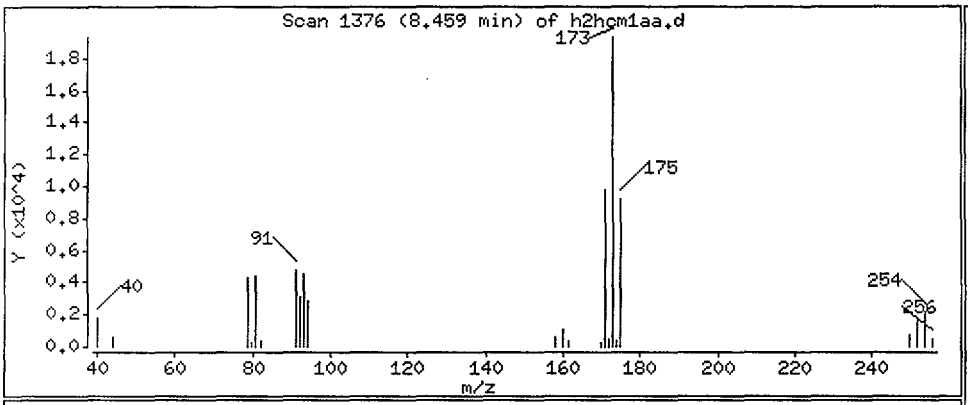
Operator: 22980

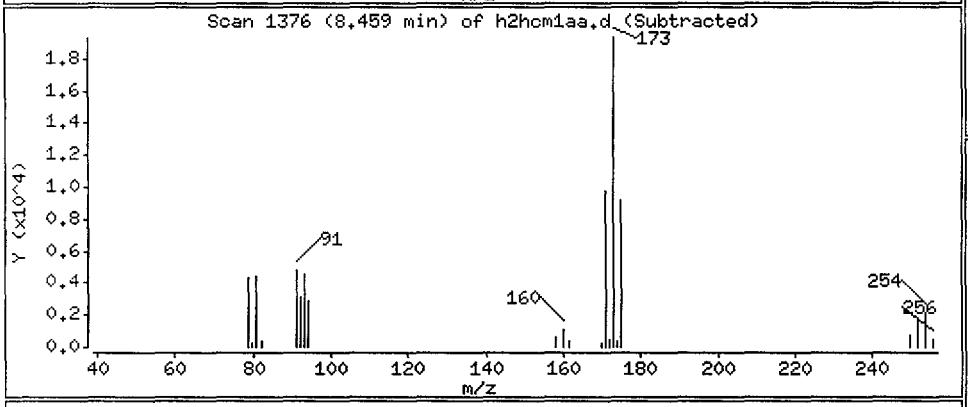
Column phase: J+W 624

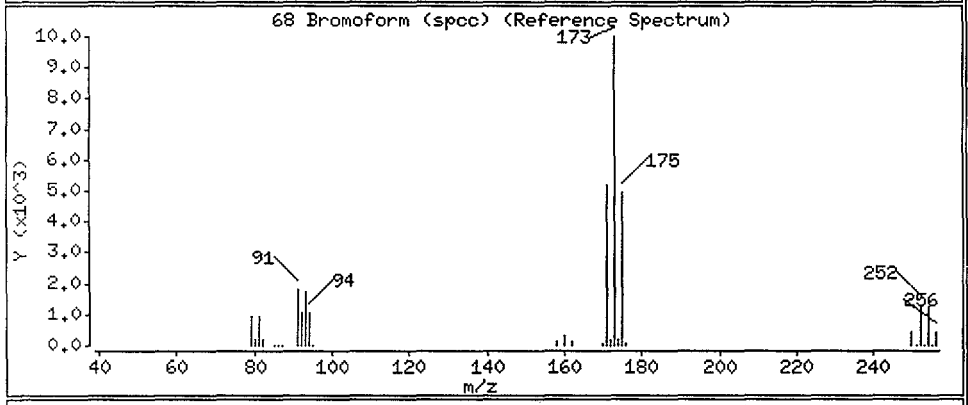
Column diameter: 0.18

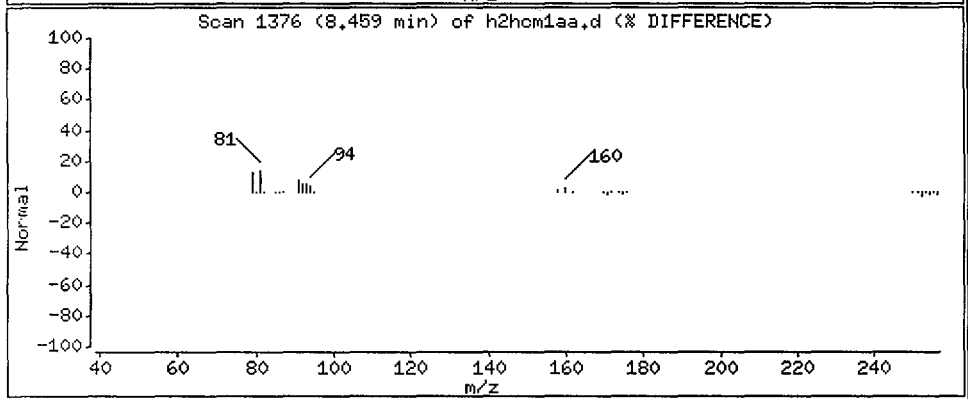
68 Bromoform (spcc)

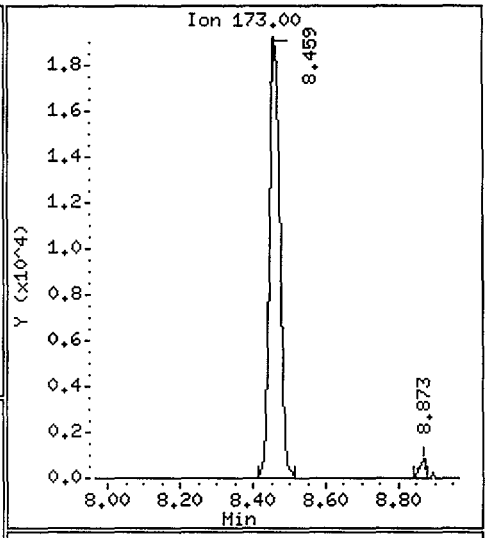
Concentration: 0.14828 ug

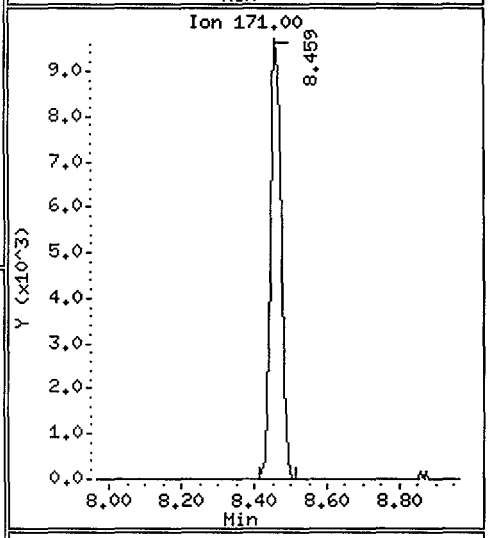


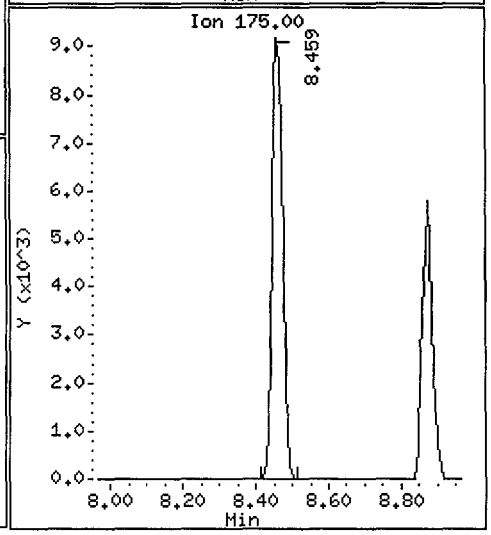












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

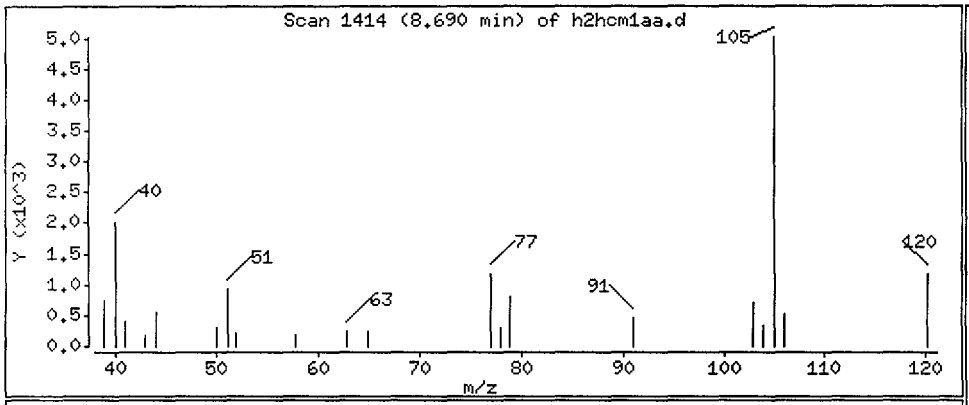
Operator: 22980

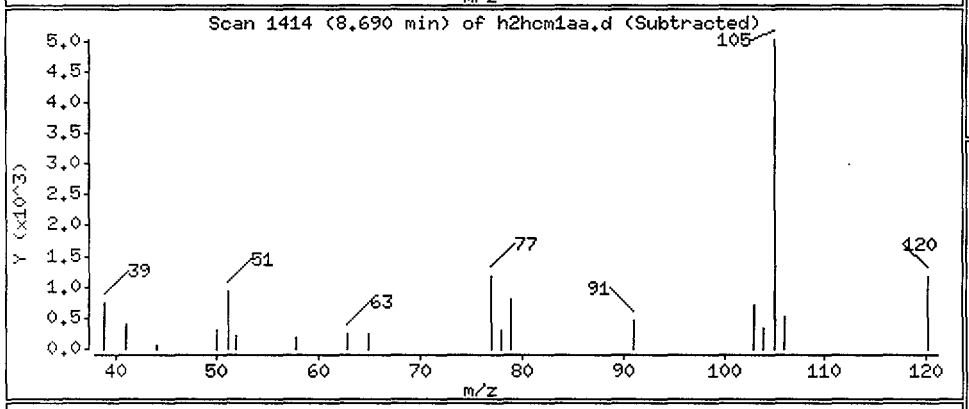
Column phase: J+W 624

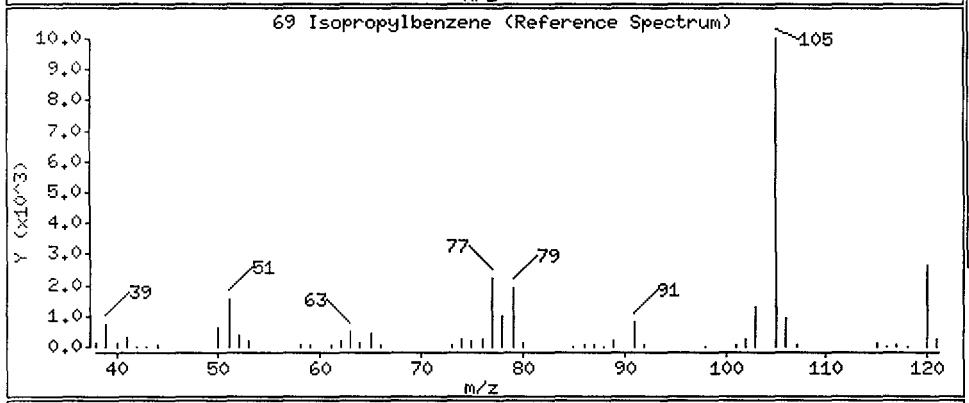
Column diameter: 0.18

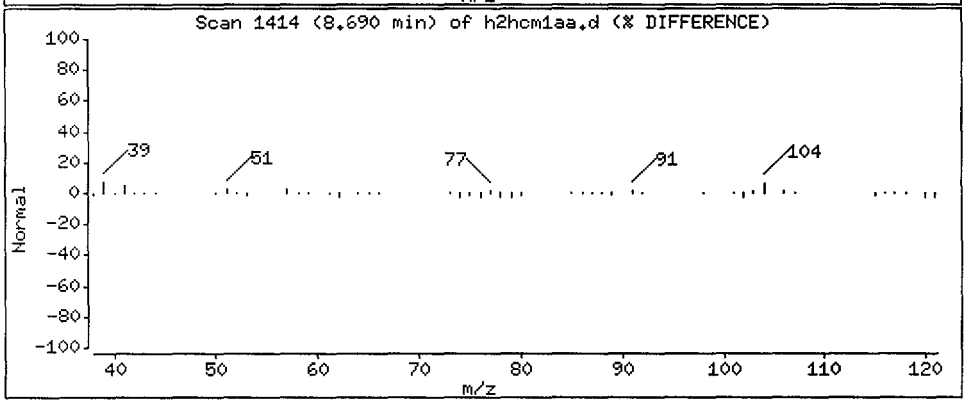
69 Isopropylbenzene

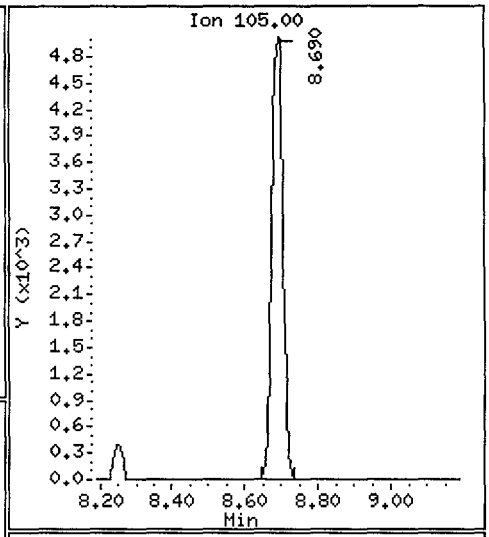
Concentration: 0.0017670 ug

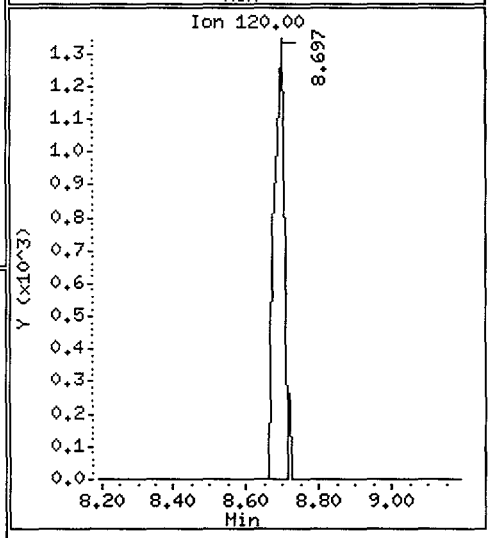












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

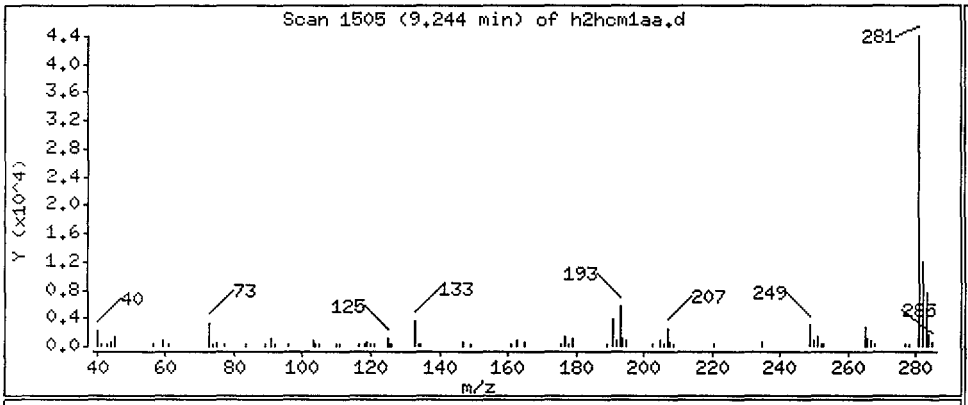
Operator: 22980

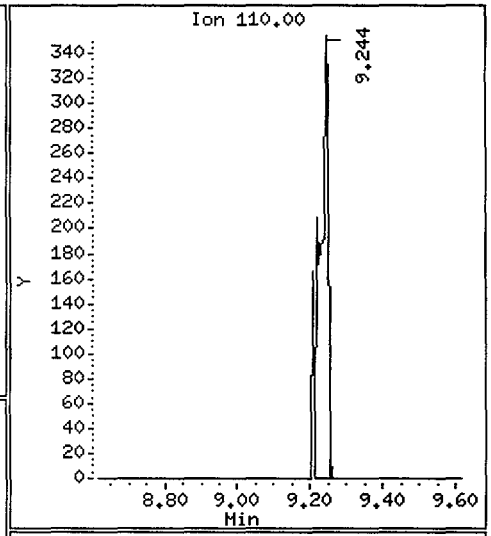
Column phase: J+W 624

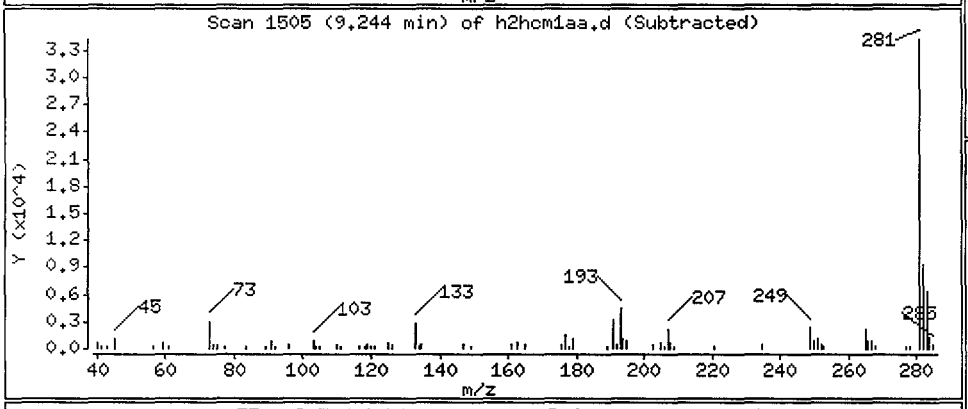
Column diameter: 0.18

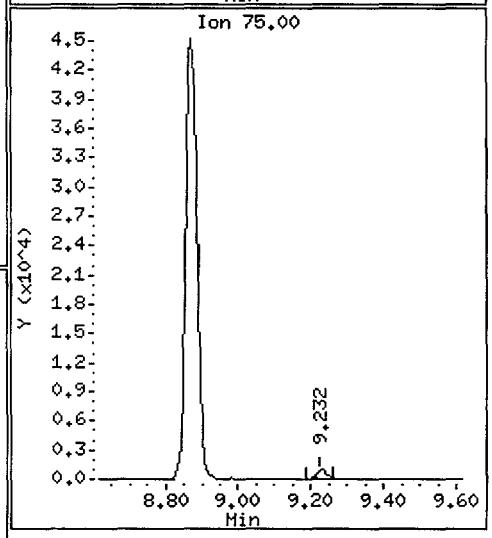
73 1,2,3-Trichloropropane

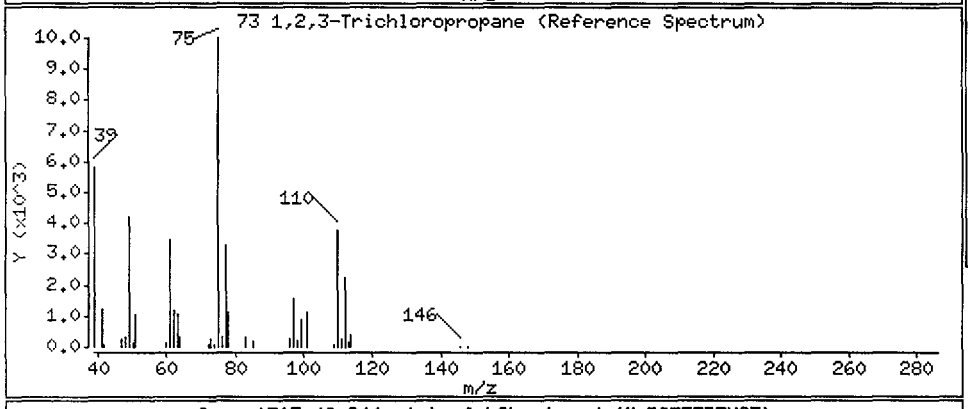
Concentration: 0.0057310 ug

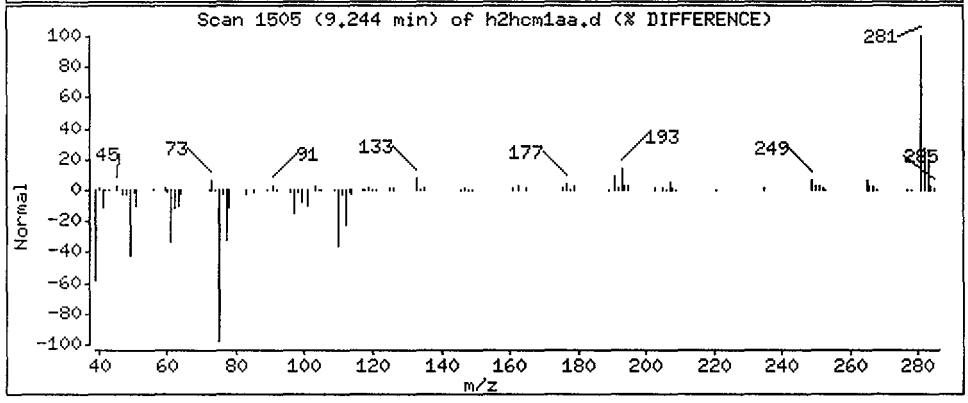












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

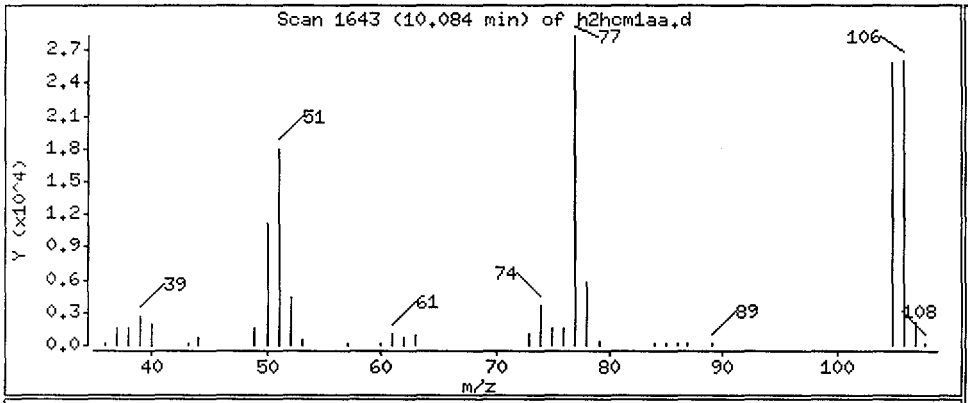
Operator: 22980

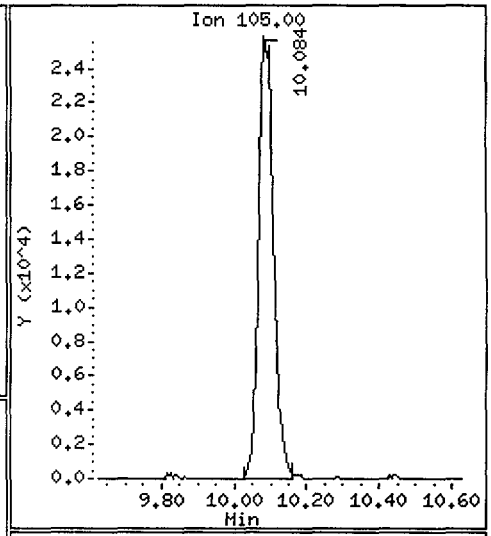
Column phase: J+W 624

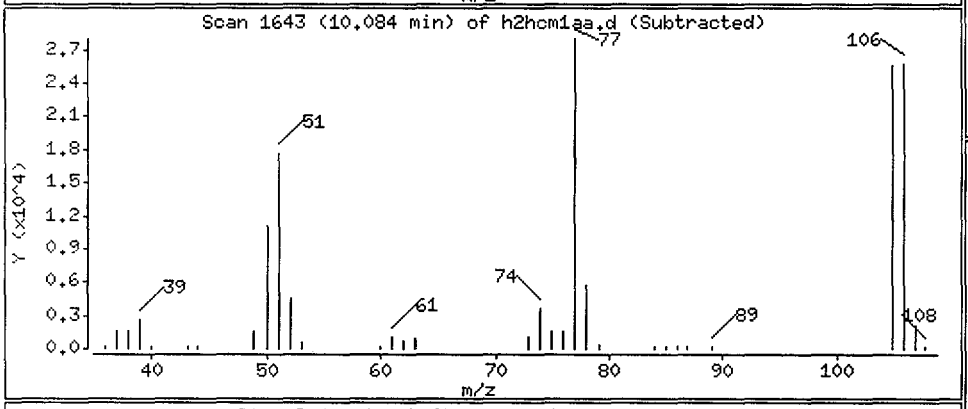
Column diameter: 0.18

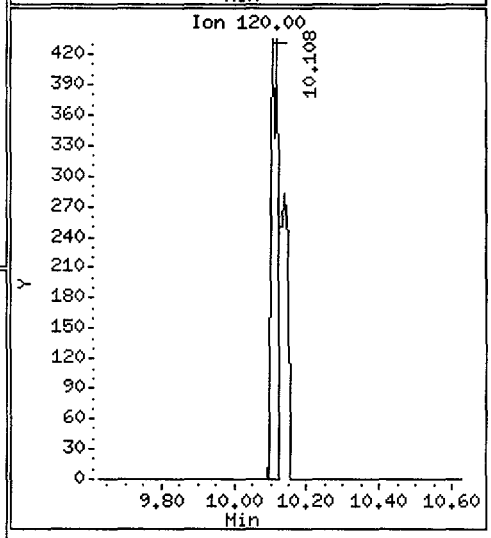
80 1,2,4-Trimethylbenzene

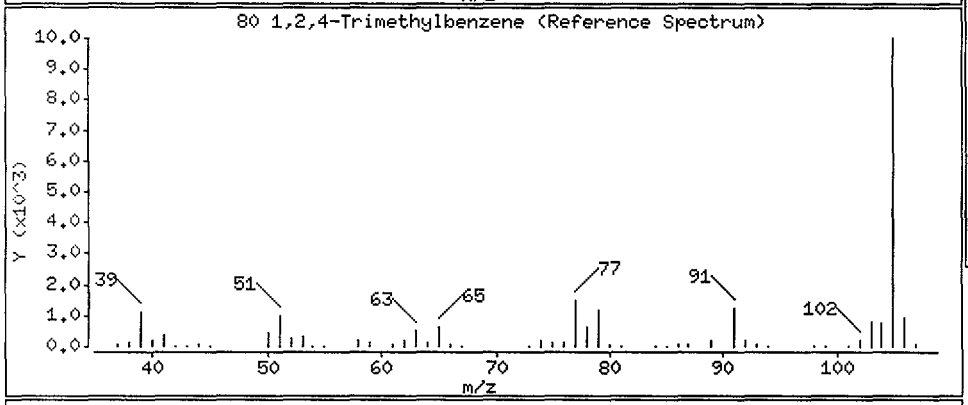
Concentration: 0.023981 ug

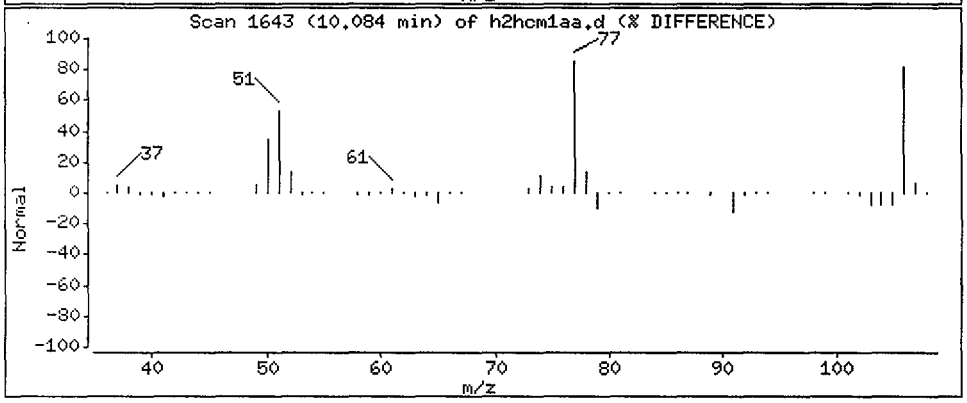












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

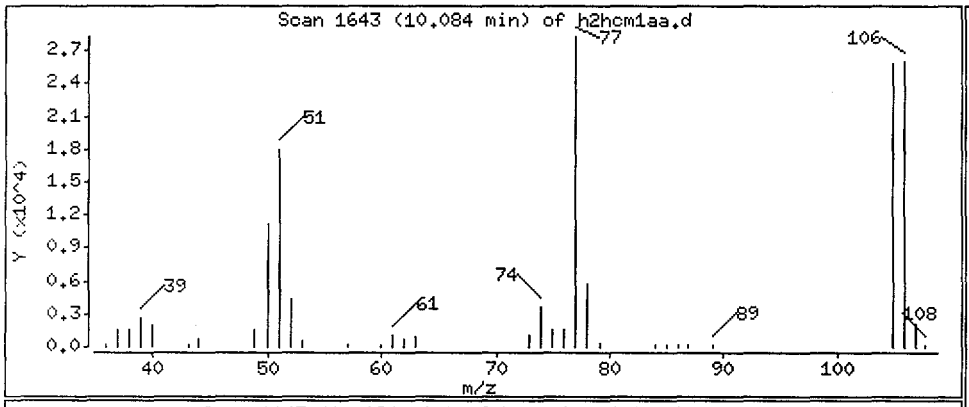
Operator: 22980

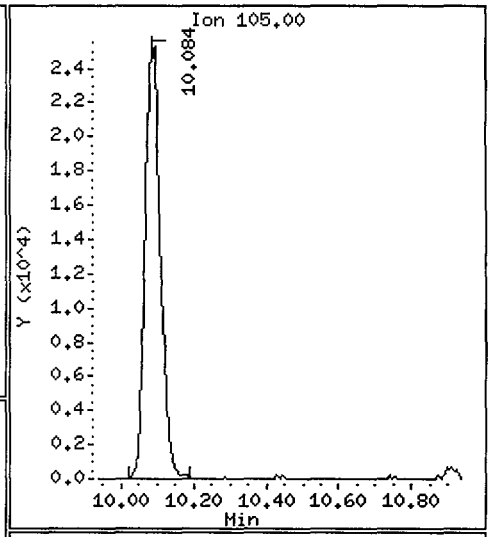
Column phase: J+W 624

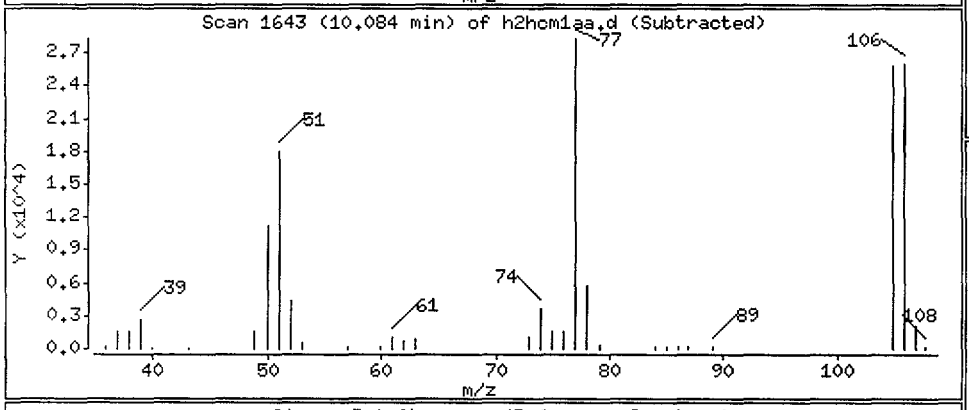
Column diameter: 0.18

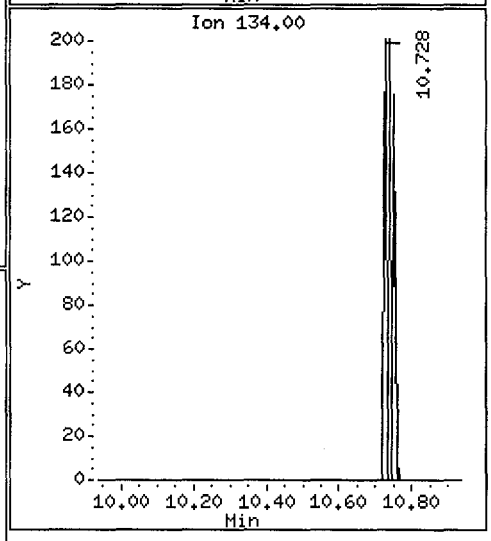
81 sec-Butylbenzene

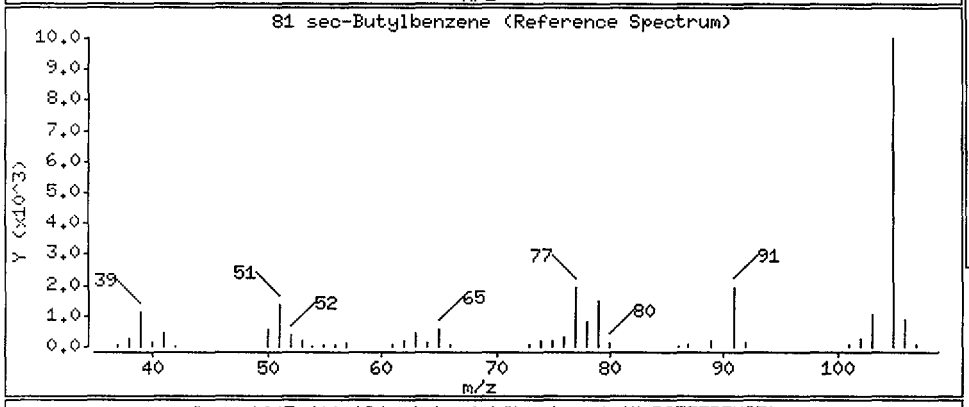
Concentration: 0.013637 ug

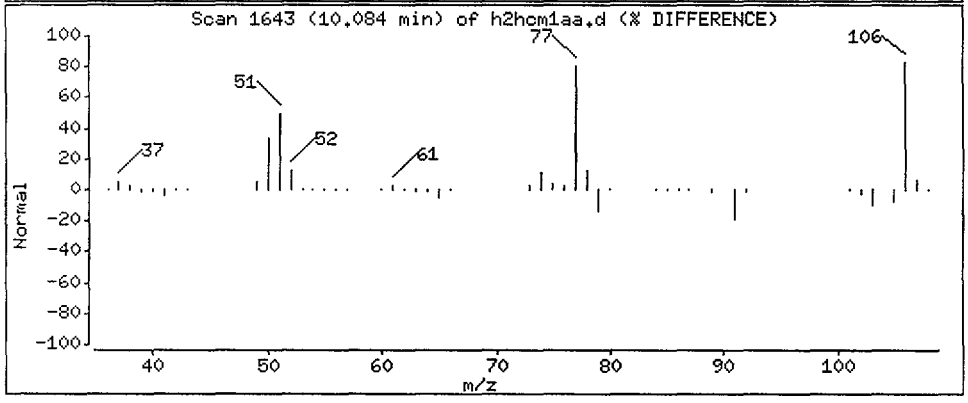












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

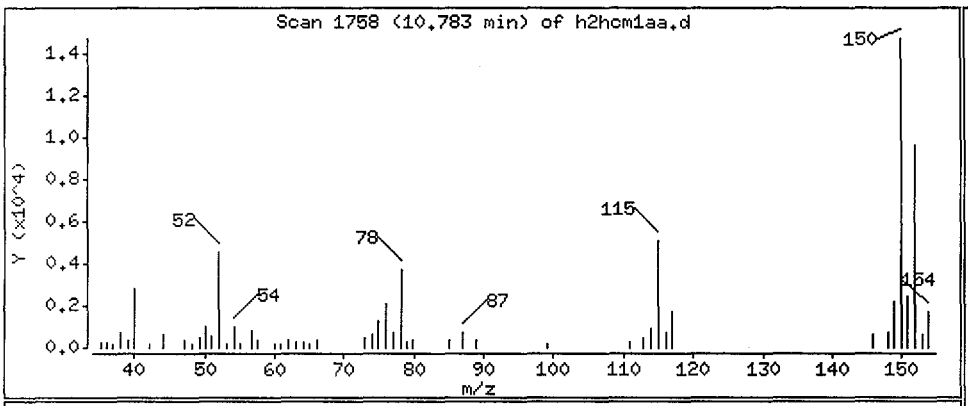
Operator: 22980

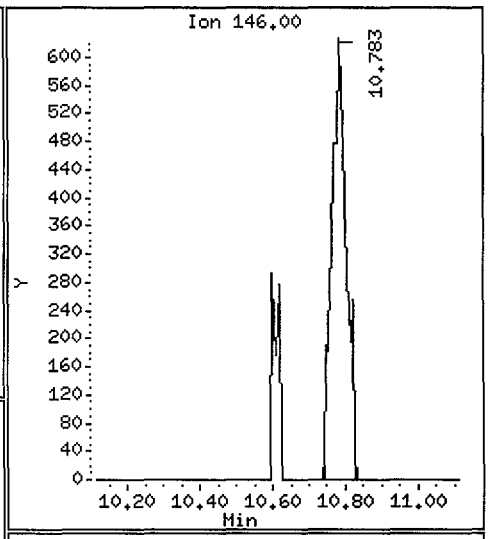
Column phase: J+W 624

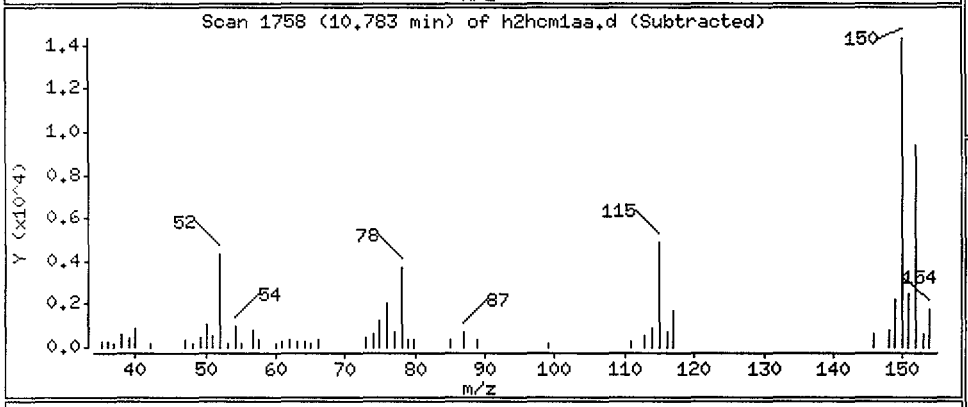
Column diameter: 0.18

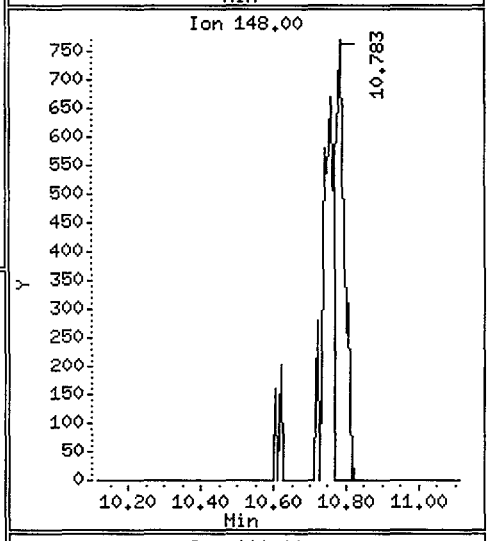
82 1,3-Dichlorobenzene

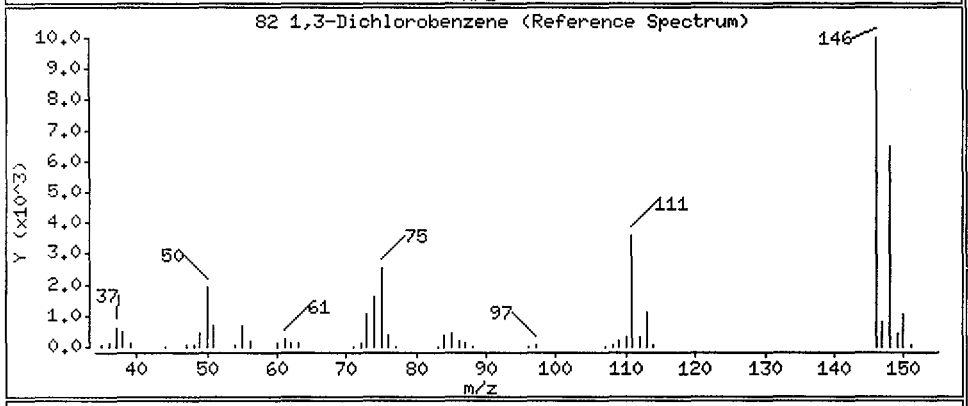
Concentration: 0.0010567 ug

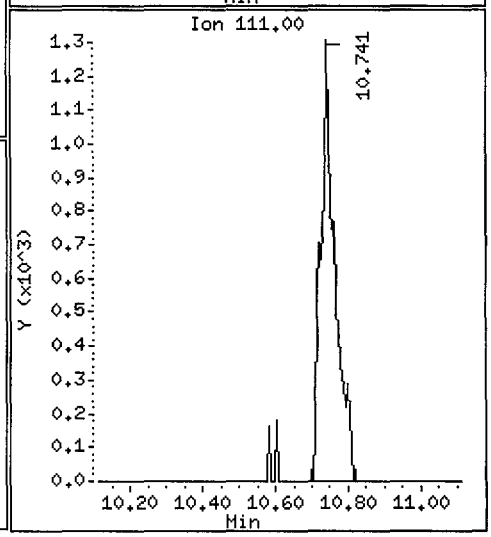


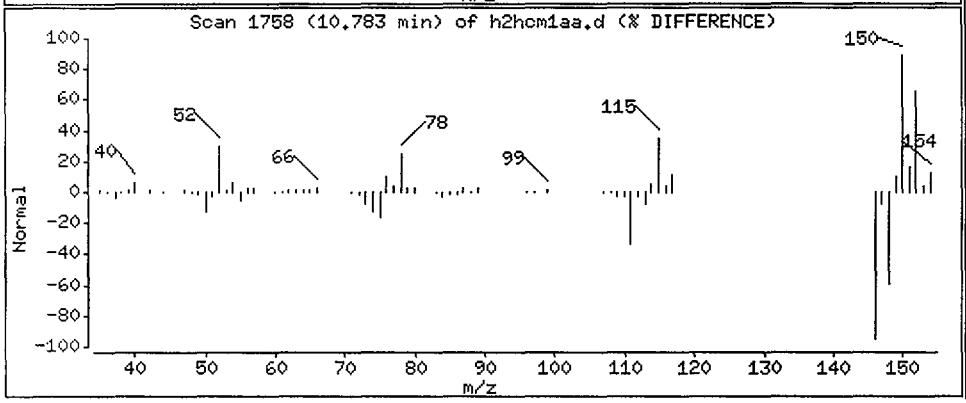












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

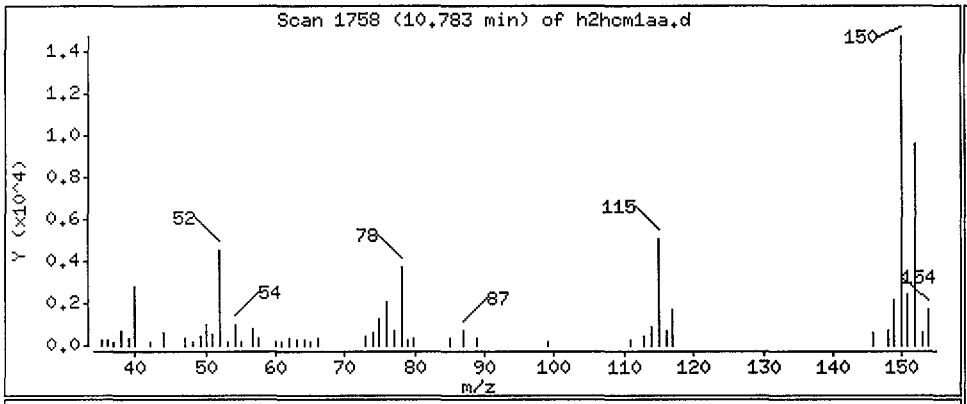
Operator: 22980

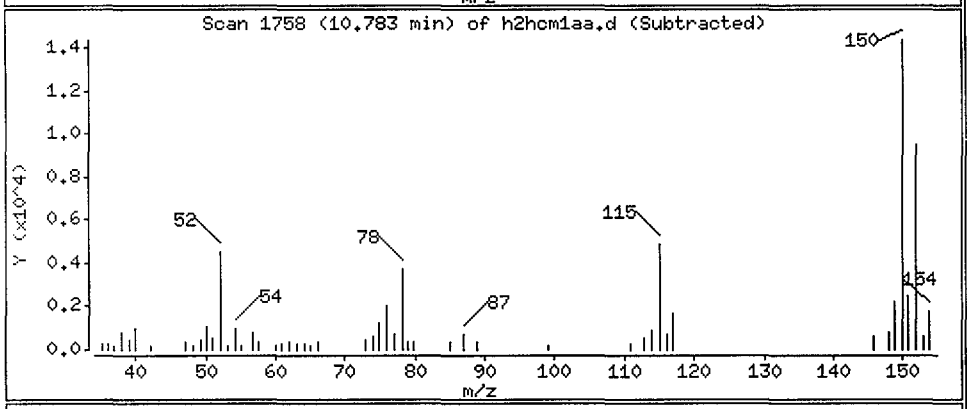
Column phase: J+W 624

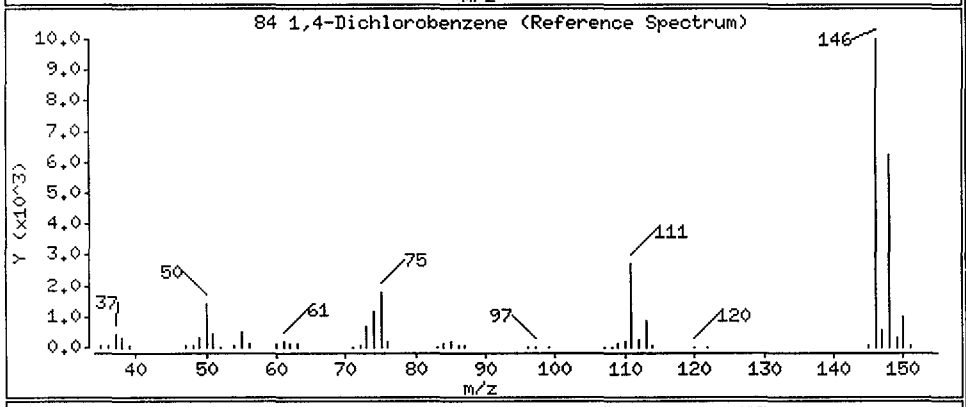
Column diameter: 0.18

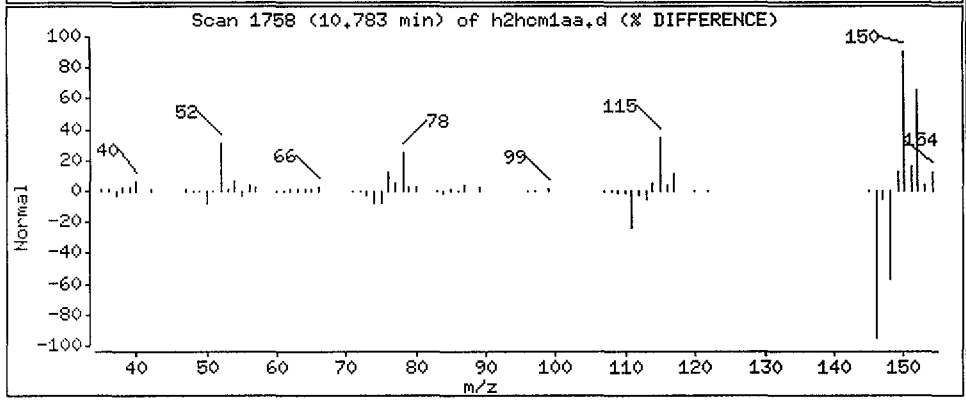
84 1,4-Dichlorobenzene

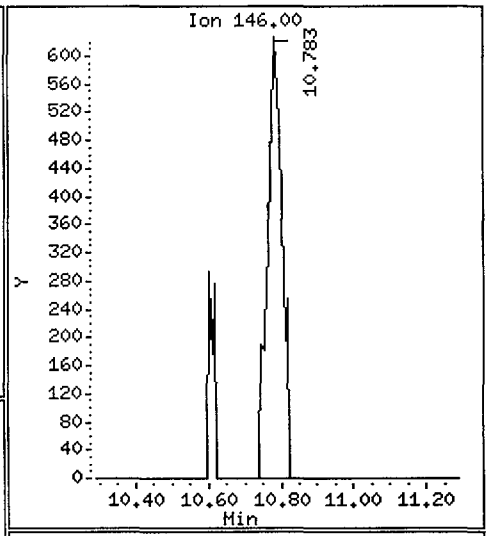
Concentration: 0.0011668 ug

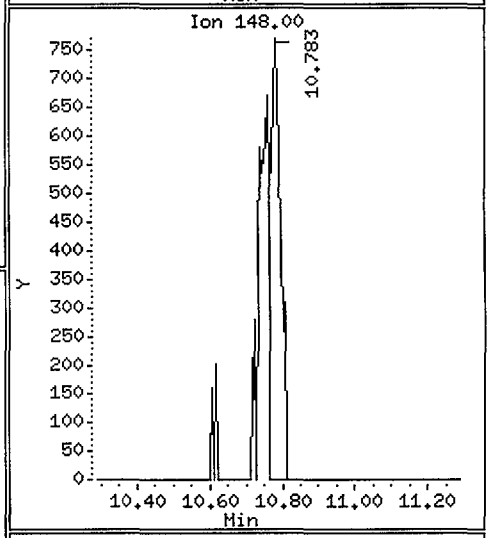


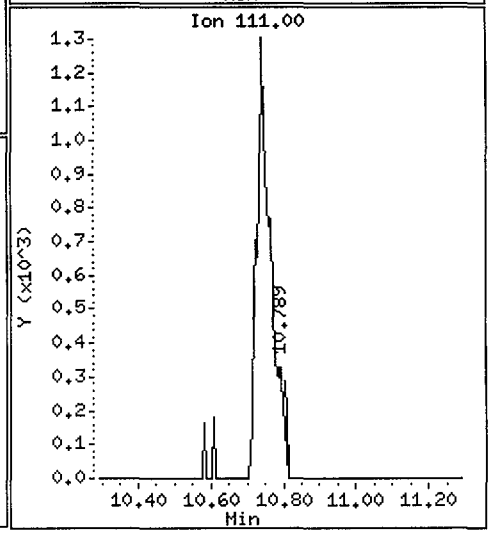












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

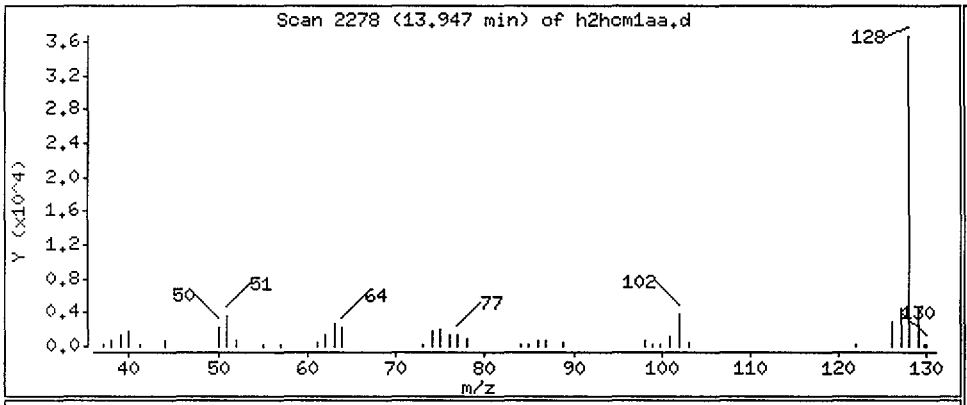
Operator: 22980

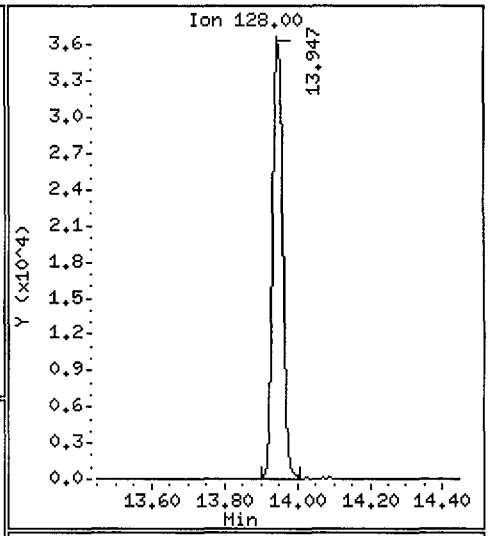
Column phase: J+W 624

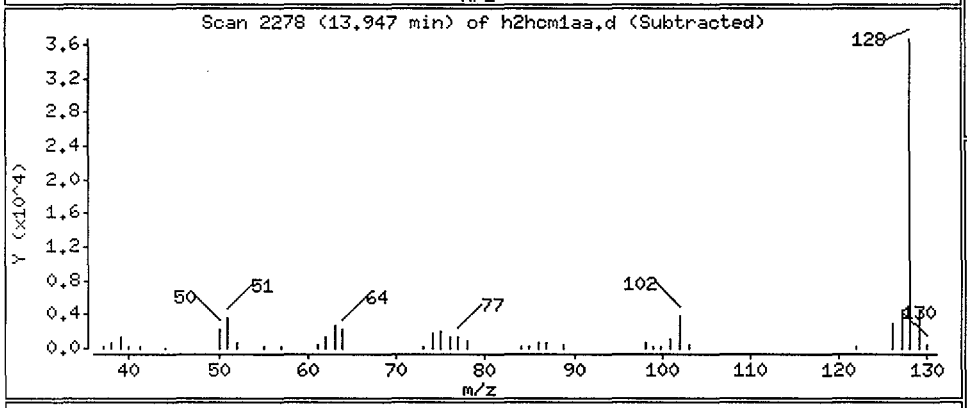
Column diameter: 0.18

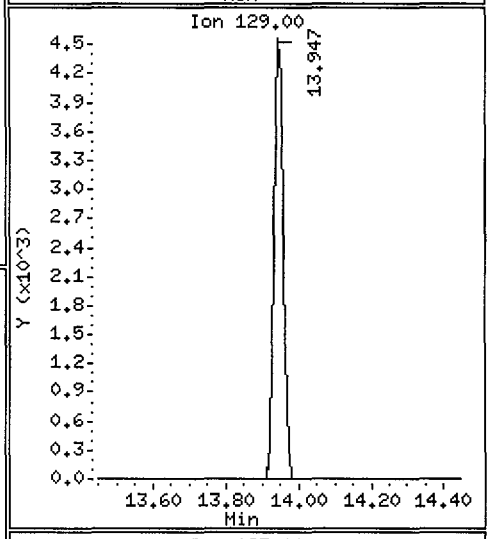
90 Napthalene

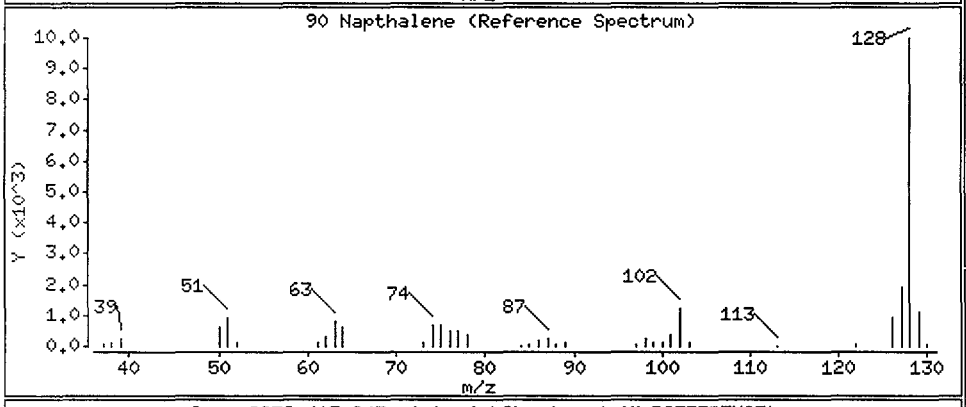
Concentration: 0.16269 ug

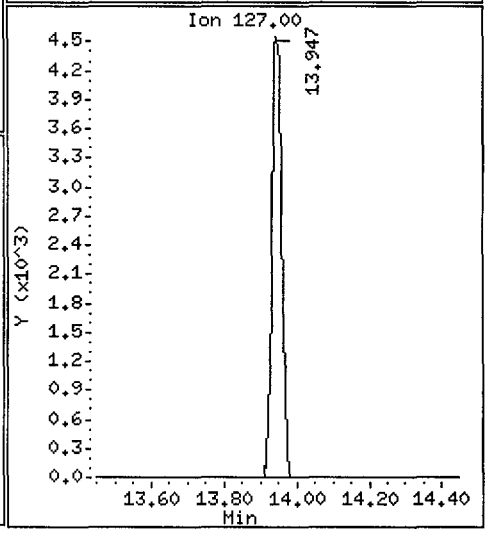


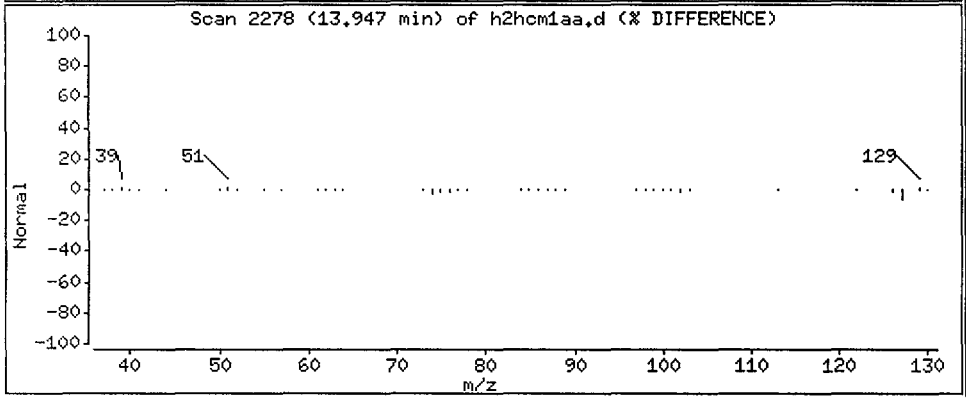












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcm1aa.d
Report Date: 18-Apr-2006 14:57

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X040706.b/h2hcm1aa.d
Lab Smp Id: H2HCM1AA Client Smp ID: G-3093-R3-VOST PAIR
Inj Date : 07-APR-2006 15:10
Operator : 22980 Inst ID: mx.i
Smp Info : H2HCM1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 18-Apr-2006 14:54 tajh Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	4.852	1525029	10.000
* 3 1,4 Dichlorobenzene-d4	10.747	578013	10.000

	CONCENTRATIONS		QUANT			
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide				CAS #: 124-38-9			
1.019	745318	4.88723821	0.12218	5	NIST02.1	77	1
Cyclotetrasiloxane, octamethyl-				CAS #: 556-67-2			
9.238	129972	2.24859994	0.056215	78	NIST02.1	115617	3
Benzaldehyde				CAS #: 100-52-7			
10.090	145087	2.51009925	0.062752	96	NIST02.1	4944	3

4/19/06 tt

Data File: /var/chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

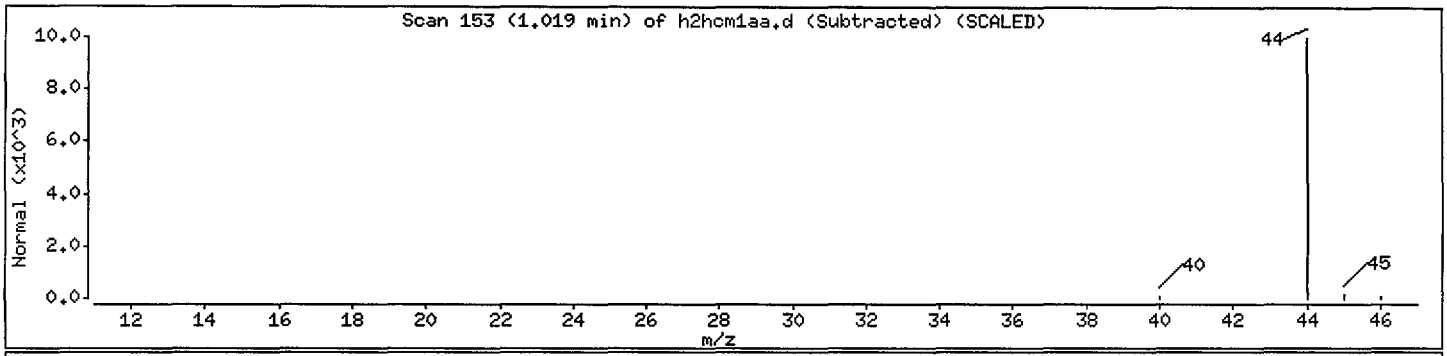
Sample Info: H2HCM1AA,1,0,,,

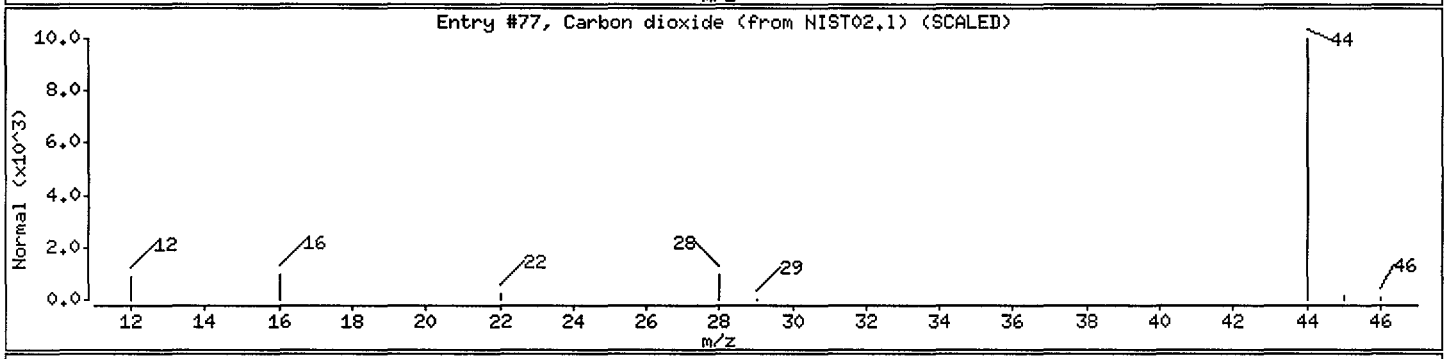
Operator: 22980

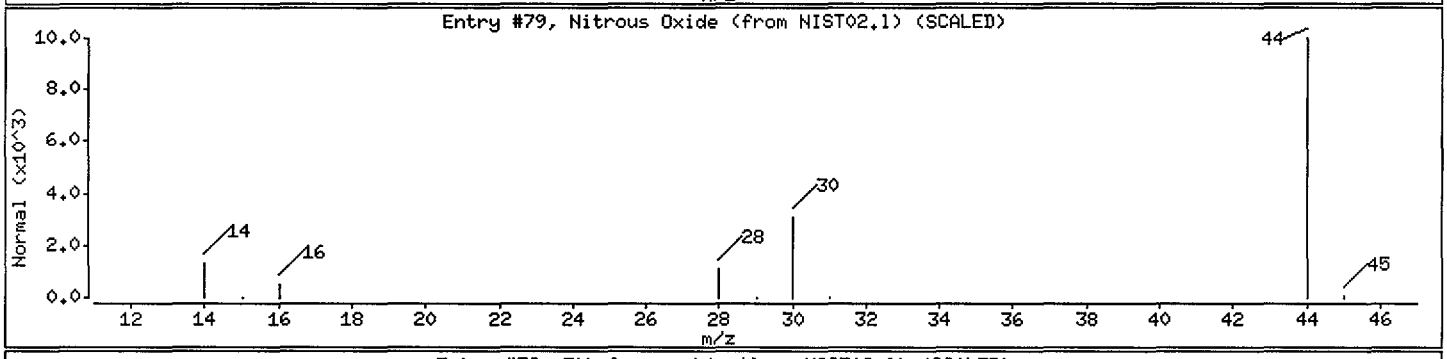
Column phase: J+W 624

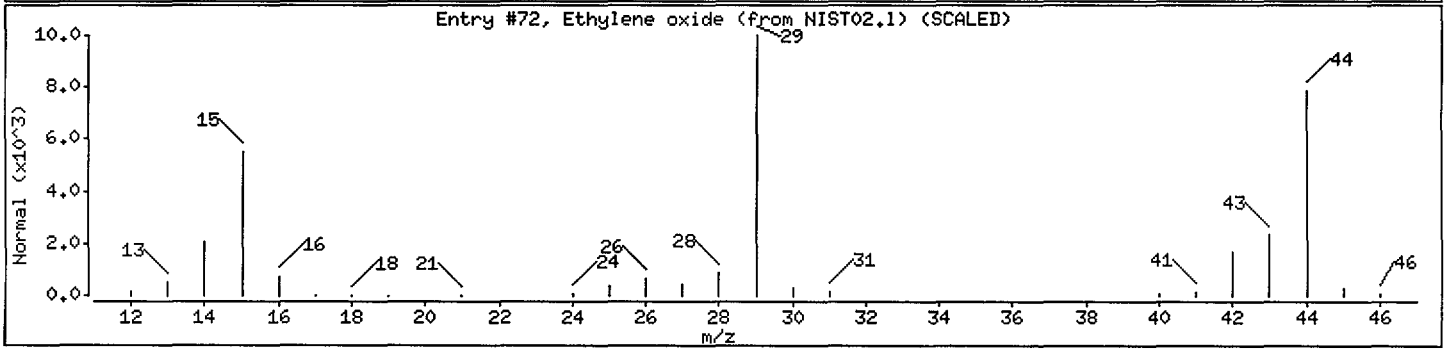
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST02.l	77	5	CO2	44
Nitrous Oxide	10024-97-2	NIST02.l	79	3	N2O	44
Ethylene oxide	75-21-8	NIST02.l	72	2	C2H4O	44









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Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

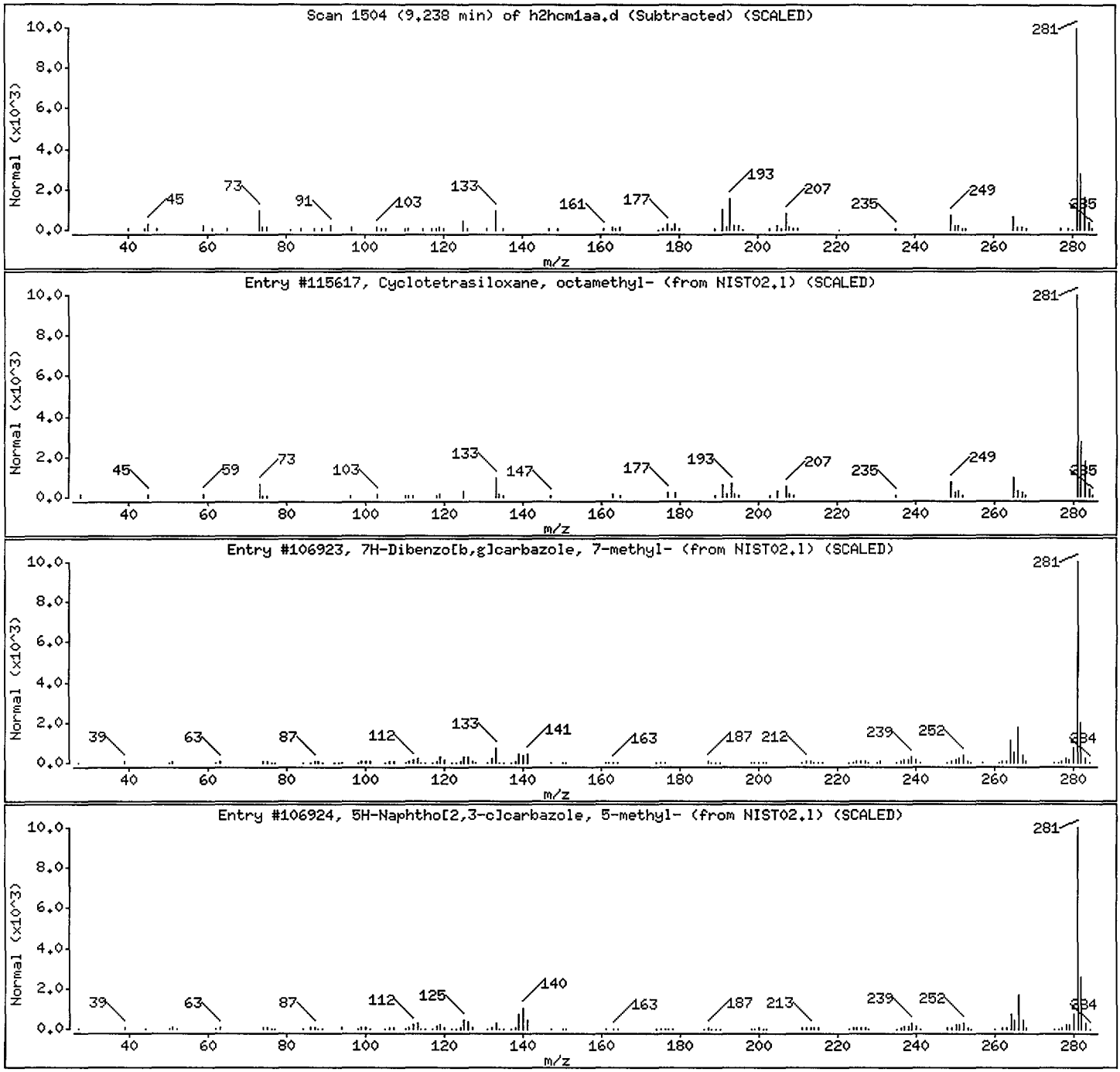
Sample Info: H2HCM1AA,1,0,,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotetrasiloxane, octamethyl-	556-67-2	NIST02.l	115617	78	C8H24O4Si4	296
7H-Dibenzo[b,g]carbazole, 7-methyl-	3557-49-1	NIST02.l	106923	53	C21H15N	281
5H-Naphtho[2,3-c]carbazole, 5-methyl-	100025-44-3	NIST02.l	106924	50	C21H15N	281



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Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

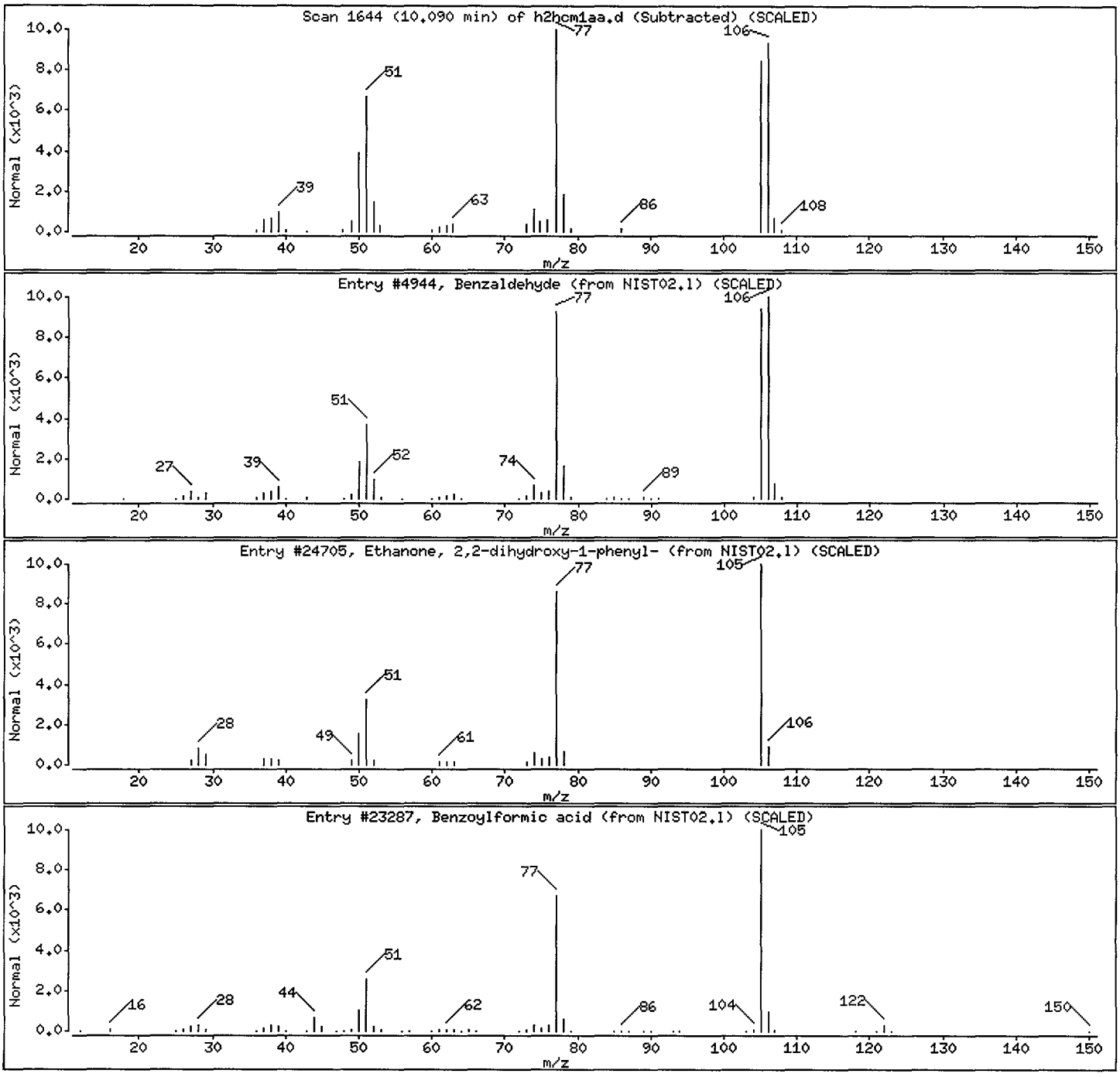
Sample Info: H2HCM1AA,1,0,,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzaldehyde	100-52-7	NIST02.l	4944	96	C7H6O	106
Ethanone, 2,2-dihydroxy-1-phenyl-	1075-06-5	NIST02.l	24705	64	C8H8O3	152
Benzoylformic acid	611-73-4	NIST02.l	23287	64	C8H6O3	150



STL Knoxville - ACS

Client Sample ID: G-3093-R3-VOST PAIR #3 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-027 **Work Order #...:** H2HCM2AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chlorobenzene	**2.8**	**0.010**	**ug**	**0.0013**

Data File: /var/chem/gcms/mx.i/X050306.b/h2hcm1aa.d
Report Date: 10-May-2006 12:22

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X050306.b/h2hcm1aa.d
Lab Smp Id: H2HCM1AA Client Smp ID: G-3093-R3-VOST PAIR
Inj Date : 07-APR-2006 15:10
Operator : 22980 Inst ID: mx.i
Smp Info : H2HCM1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X050306.b/clbz.m
Meth Date : 10-May-2006 12:21 wilesd Quant Type: ISTD
Cal Date : 03-MAY-2006 15:12 Cal File: tclp10.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: clbz.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	4.852	4.851	(1.000)	1135324	10.0000	
* 2 Chlorobenzene-d5	119	7.583	7.582	(1.000)	225016	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.747	10.746	(1.000)	242017	10.0000	
57 Tetrachloroethene	164	6.823	6.816	(0.900)	1280598	40.3459	1.0086
62 Chlorobenzene (spcc)	112	7.614	7.607	(1.004)	8416452	113.066	2.8266(A)

QC Flag Legend

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

Data File: /var/chem/gcms/mx.i/X050306.b/h2hcm1aa.d
Report Date: 10-May-2006 12:35

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: h2hcm1aa.d
Lab Smp Id: H2HCM1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mx.i/X050306.b/clbz.m
Misc Info: X040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 09:16
Client Smp ID: G-3093-R3-VOST PAIR
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1149191	574596	2298382	1135324	-1.21
2 Chlorobenzene-d5	214194	107097	428388	225016	5.05
3 1,4 Dichlorobenze	242601	121300	485202	242017	-0.24

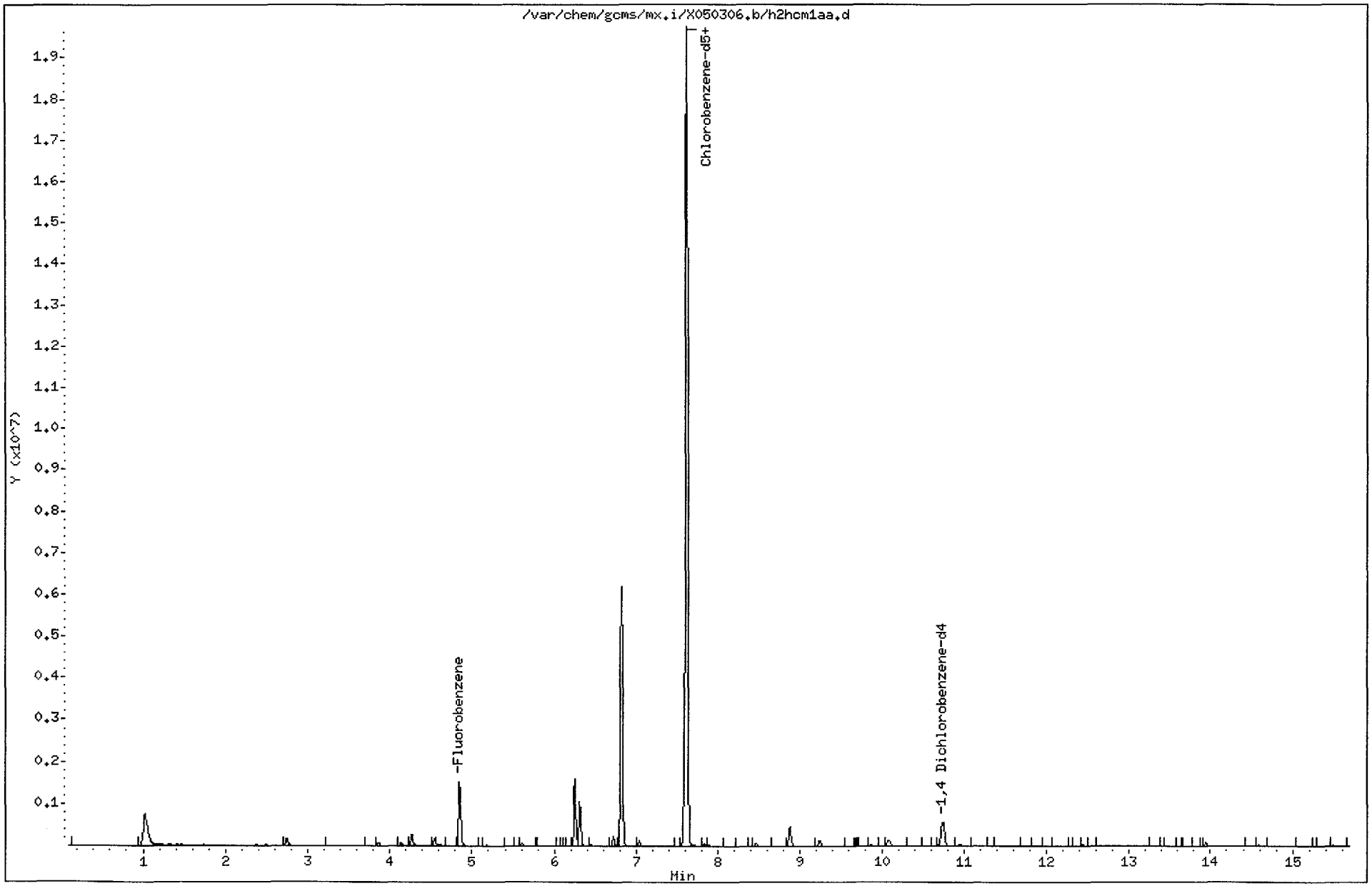
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	0.02
2 Chlorobenzene-d5	7.58	7.08	8.08	7.58	0.01
3 1,4 Dichlorobenze	10.75	10.25	11.25	10.75	0.01

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

Data File: /var/chem/gcms/mx.i/X050306.b/h2hcm1aa.d
Date : 07-APR-2006 15:10
Client ID: G-3093-R3-VOST PAIR
Sample Info: H2HCM1AA,1,0,,,

Instrument: mx.i
Operator: 22980
Column diameter: 0.18

Column phase: J+W 624



Data File: /var/chem/gcms/mx.i/X050306.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

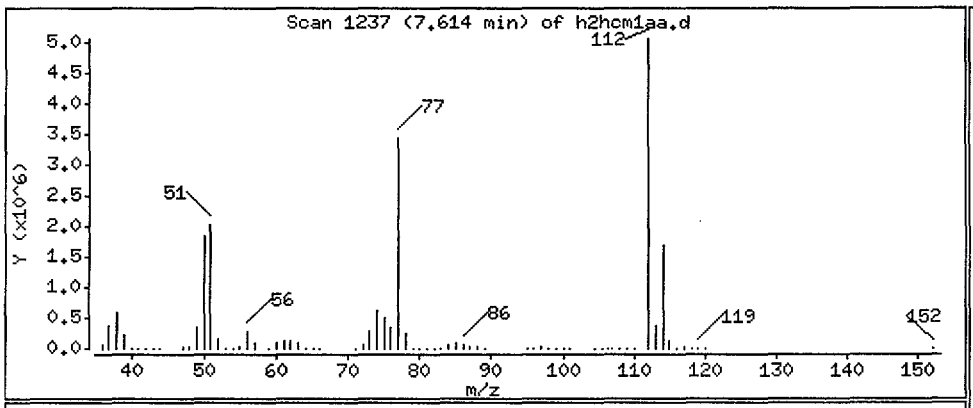
Operator: 22980

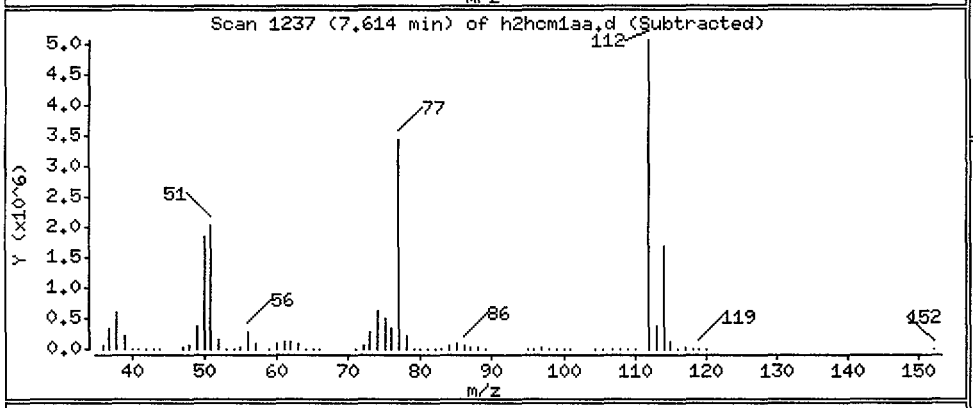
Column phase: J+W 624

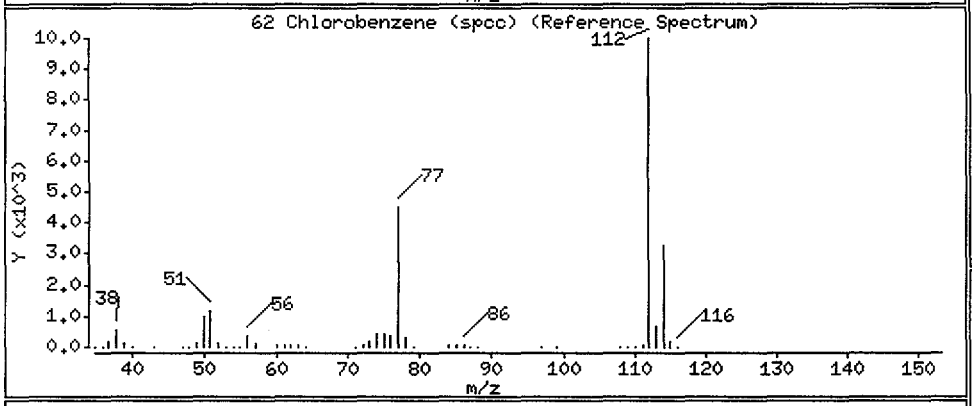
Column diameter: 0.18

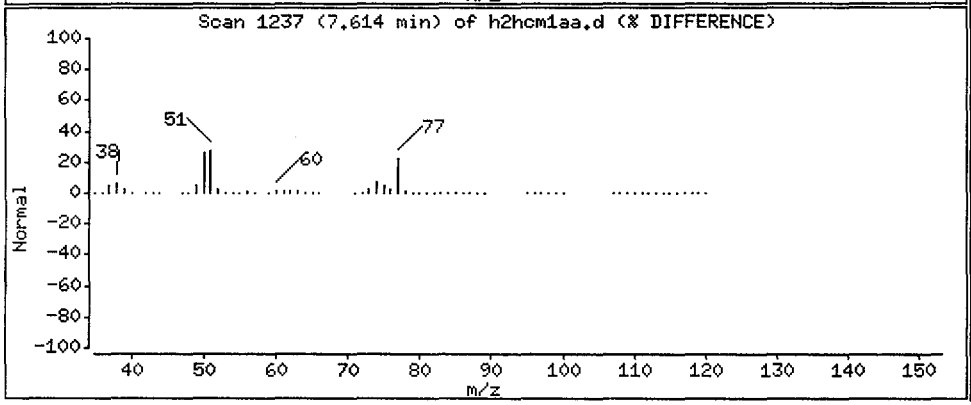
62 Chlorobenzene (spcc)

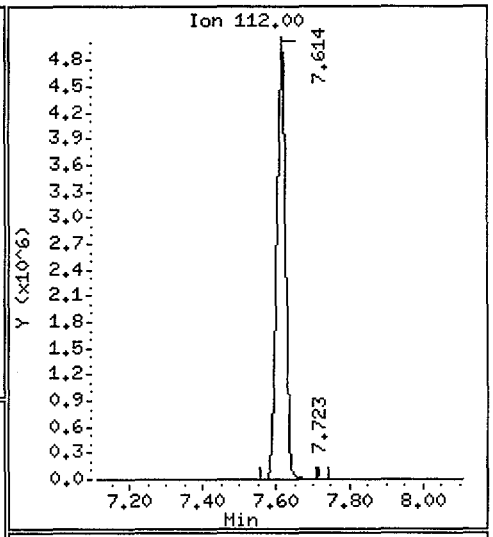
Concentration: 2.8266 ug

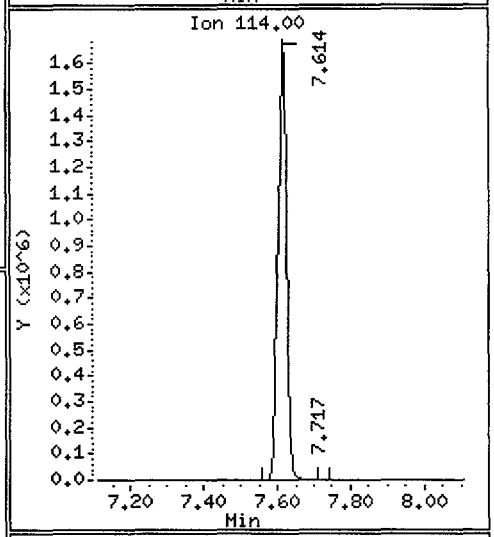


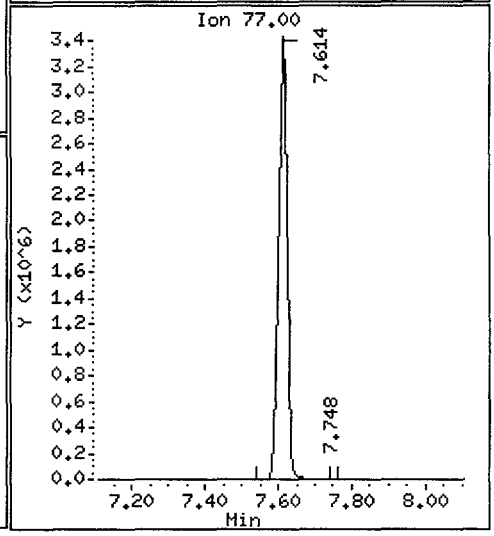












Data File: /var/chem/gcms/mx.i/X050306.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

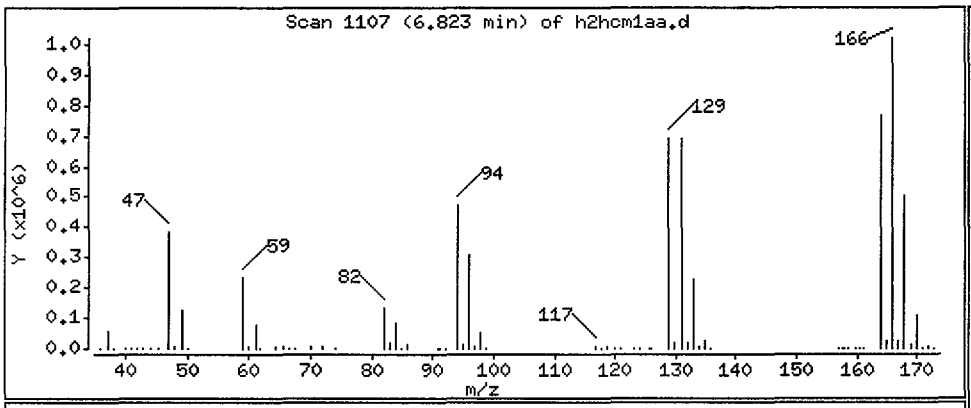
Operator: 22980

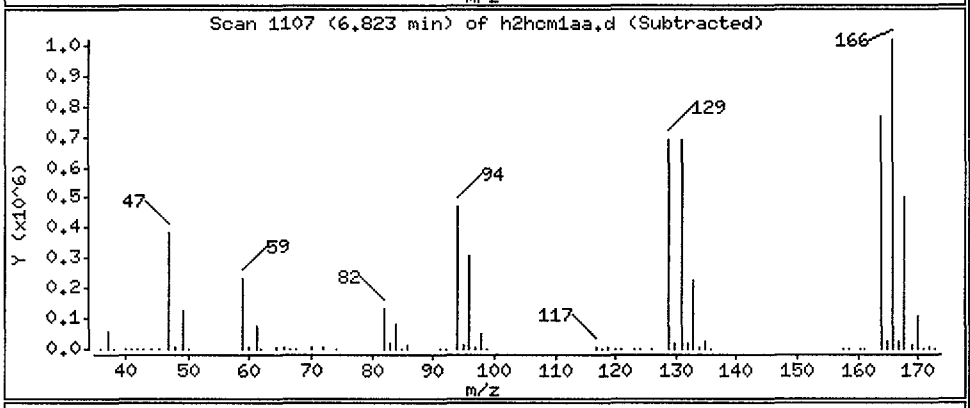
Column phase: J+W 624

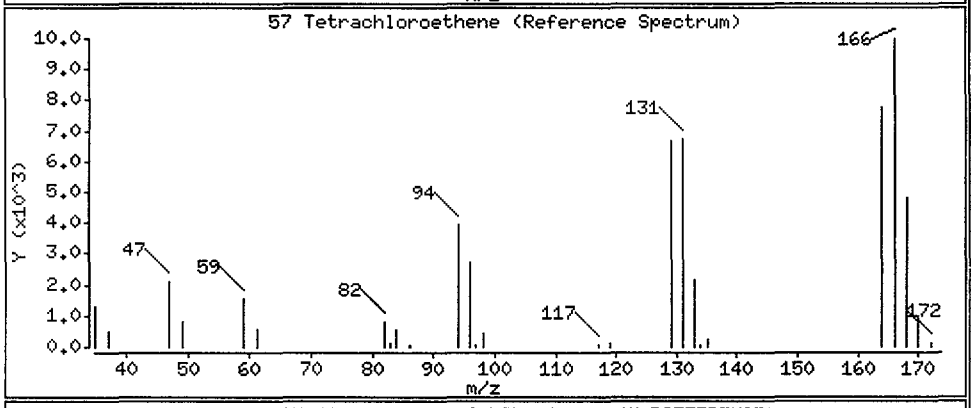
Column diameter: 0.18

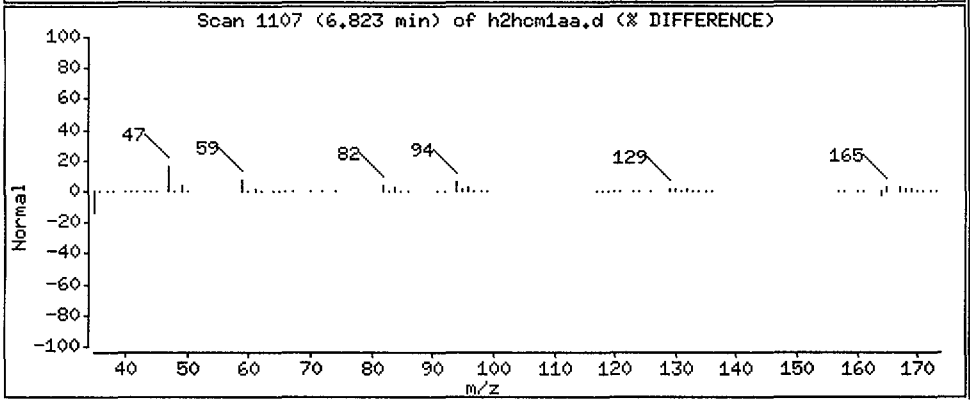
57 Tetrachloroethene

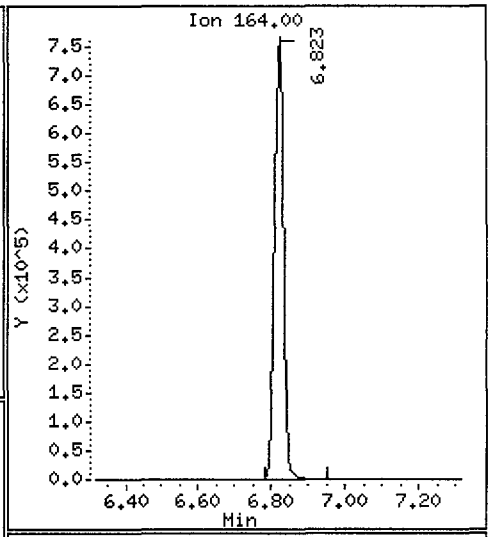
Concentration: 1.0086 ug

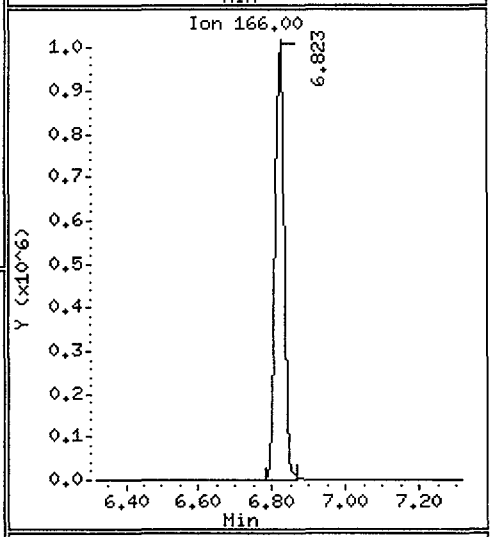


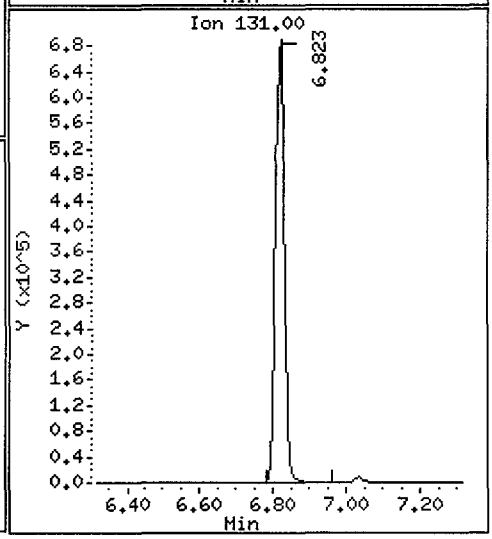












STL Knoxville - ACS

Client Sample ID: G-3094-R3-VOST PAIR #3 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-028 **Work Order #...:** H2HCN1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.10 B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.026 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0032 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	**0.0048 J**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.0044 J**	**0.010**	**ug**	**0.0019**
Chloromethane	**0.021 J**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	**0.0064 J**	**0.025**	**ug**	**0.0050**
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3094-R3-VOST PAIR #3 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-028 **Work Order #...:** H2HCN1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.071**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.0097 J**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0033 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.0072 J**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	112	(50 - 134)
1,2-Dichloroethane-d4	102	(50 - 134)
Toluene-d8	93	(57 - 127)
Bromofluorobenzene	84	(50 - 125)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3094-R3-VOST PAIR #3 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #: H6D030169-028 **Work Order #:** H2HCN1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d
Report Date: 07-Apr-2006 15:27

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d
Lab Smp Id: H2HCN1AA Client Smp ID: G-3094-R3-VOST PAIR
Inj Date : 07-APR-2006 15:10
Operator : 22980 Inst ID: mz.i
Smp Info : H2HCN1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 13:06 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

04206

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.672	5.676	(1.000)	776770	10.0000	
* 2 Chlorobenzene-d5	119	8.939	8.937	(1.000)	173756	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.494	11.492	(1.000)	235963	10.0000	
$ 4 Dibromofluoromethane	113	4.833	4.831	(0.852)	139538	11.2109	0.28027
$ 5 1,2-Dichloroethane-d4	65	5.240	5.238	(0.924)	110045	10.2242	0.25561
$ 6 Toluene-d8	98	7.461	7.465	(0.835)	712069	9.32691	0.23317
$ 7 4-Bromofluorobenzene	95	10.125	10.129	(0.881)	201051	8.44858	0.21121
10 Dichlorodifluoromethane	85	1.006	1.016	(0.177)	4887	0.25776	0.0064440
11 Chloromethane (spcc)	50	1.122	1.126	(0.198)	61580	0.84024	0.021006
15 Bromomethane	94	1.402	1.418	(0.247)	1772	1.04813	0.026203
16 Chloroethane	64	1.481	1.485	(0.261)	30685	2.11815	~~0.052954~~
22 Acetone	43	2.113	2.123	(0.373)	1044	3.47269	0.086817
23 *Iodomethane	142	2.192	2.184	(0.387)	800	0.56176	0.014044
24 Carbon Disulfide	76	2.241	2.239	(0.395)	7578	0.12717	0.0031791
27 Methylene Chloride	84	2.515	2.513	(0.443)	36703	2.82531	0.070633
39 *THF	42	4.541	4.532	(0.800)	1082	0.58760	0.014690

JW 4.14.06

- See reprint for (m)

Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d
Report Date: 07-Apr-2006 15:27

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
40 Chloroform (ccc)	83	4.614	4.618	(0.813)	4979	0.17743	0.0044357
44 Benzene	78	5.307	5.305	(0.936)	6391	0.08344	0.0020860
45 1,2-Dichloroethane	62	5.678	5.335	(1.001)	12145	0.74877	0.018719
46 Trichloroethene	130	6.122	6.114	(1.079)	6163	0.28605	0.0071512
53 4-Methyl-2-pentanone	43	7.467	7.386	(1.316)	6038	0.89024	0.022256
54 Toluene (ccc)	91	7.534	7.532	(0.843)	13029	0.13176	0.0032940
55 trans-1,3-Dichloropropene	75	8.106	7.793	(0.907)	312	0.64508	0.016127
58 Tetrachloroethene	164	8.100	8.097	(0.906)	7974	0.38878	0.0097195
63 Chlorobenzene (spcc)	112	8.963	8.961	(1.003)	10562	0.19138	0.0047845
68 Styrene	104	9.633	9.630	(1.078)	2588	0.04855	0.0012138
69 Bromoform (spcc)	173	10.119	9.782	(1.132)	178	0.86576	0.021644
74 1,2,3-Trichloropropane	110	10.496	10.324	(0.913)	330	0.16249	0.0040623
83 1,3-Dichlorobenzene	146	11.525	11.395	(1.003)	2482	0.06010	0.0015025
85 1,4-Dichlorobenzene	146	11.525	11.528	(1.003)	2482	0.06461	0.0016152

DRW 4.14.06

Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcn1aa.d
Report Date: 14-Apr-2006 16:05

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2hcn1aa.d
Lab Smp Id: H2HCN1AA Client Smp ID: G-3094-R3-VOST PAIR
Inj Date : 07-APR-2006 15:10
Operator : 22980 Inst ID: mz.i
Smp Info : H2HCN1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.672	5.676	(1.000)	776770	10.0000	
* 2 Chlorobenzene-d5	119	8.939	8.937	(1.000)	173756	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.494	11.492	(1.000)	235963	10.0000	
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$ 6 Toluene-d8	98	7.461	7.465	(0.835)	712069	9.32695	0.23317
$ 7 4-Bromofluorobenzene	95	10.125	10.129	(0.881)	201051	8.44860	0.21122
10 Dichlorodifluoromethane	85	1.006	1.016	(0.177)	4887	0.25774	0.0064435
11 Chloromethane (spcc)	50	1.122	1.126	(0.198)	61580	0.84023	0.021006
15 Bromomethane	94	1.402	1.418	(0.247)	1772	1.04812	0.026203
22 Acetone	43	2.138	2.123	(0.377)	3528	4.01160	0.10029(MH)
23 *Iodomethane	142	2.192	2.184	(0.387)	800	0.56174	0.014043
24 Carbon Disulfide	76	2.241	2.239	(0.395)	7578	0.12716	0.0031791
27 Methylene Chloride	84	2.515	2.513	(0.443)	36703	2.82525	0.070631
39 *THF	42	4.541	4.532	(0.800)	1082	0.58708	0.014677
40 Chloroform (ccc)	83	4.614	4.618	(0.813)	4979	0.17740	0.0044351

Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcn1aa.d
Report Date: 14-Apr-2006 16:05

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug)
44 Benzene	78	5.307	5.305	(0.936)	6391	0.08343	0.0020858
46 Trichloroethene	130	6.122	6.114	(1.079)	6163	0.28601	0.0071504
54 Toluene (ccc)	91	7.534	7.532	(0.843)	13029	0.13176	0.0032940
58 Tetrachloroethene	164	8.100	8.097	(0.906)	7974	0.38878	0.0097194
63 Chlorobenzene (spcc)	112	8.963	8.961	(1.003)	10562	0.19137	0.0047842
68 Styrene	104	9.633	9.630	(1.078)	2588	0.04854	0.0012136
85 1,4-Dichlorobenzene	146	11.525	11.528	(1.003)	2482	0.06460	0.0016150

QC Flag Legend

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

Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d
Report Date: 07-Apr-2006 15:27

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2hcn1aa.d
Lab Smp Id: H2HCN1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 07:35
Client Smp ID: G-3094-R3-VOST PAIR
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	952581	476290	1905162	776770	-18.46
2 Chlorobenzene-d5	164101	82050	328202	173756	5.88
3 1,4 Dichlorobenze	204390	102195	408780	235963	15.45

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.68	5.18	6.18	5.67	-0.07
2 Chlorobenzene-d5	8.94	8.44	9.44	8.94	0.02
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	0.02

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

Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d
Report Date: 07-Apr-2006 15:27

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030169
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: H2HCN1AA
Client Smp ID: G-3094-R3-VOST PAIR
Level: LOW
Operator: 22980
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allcmpds.spk
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

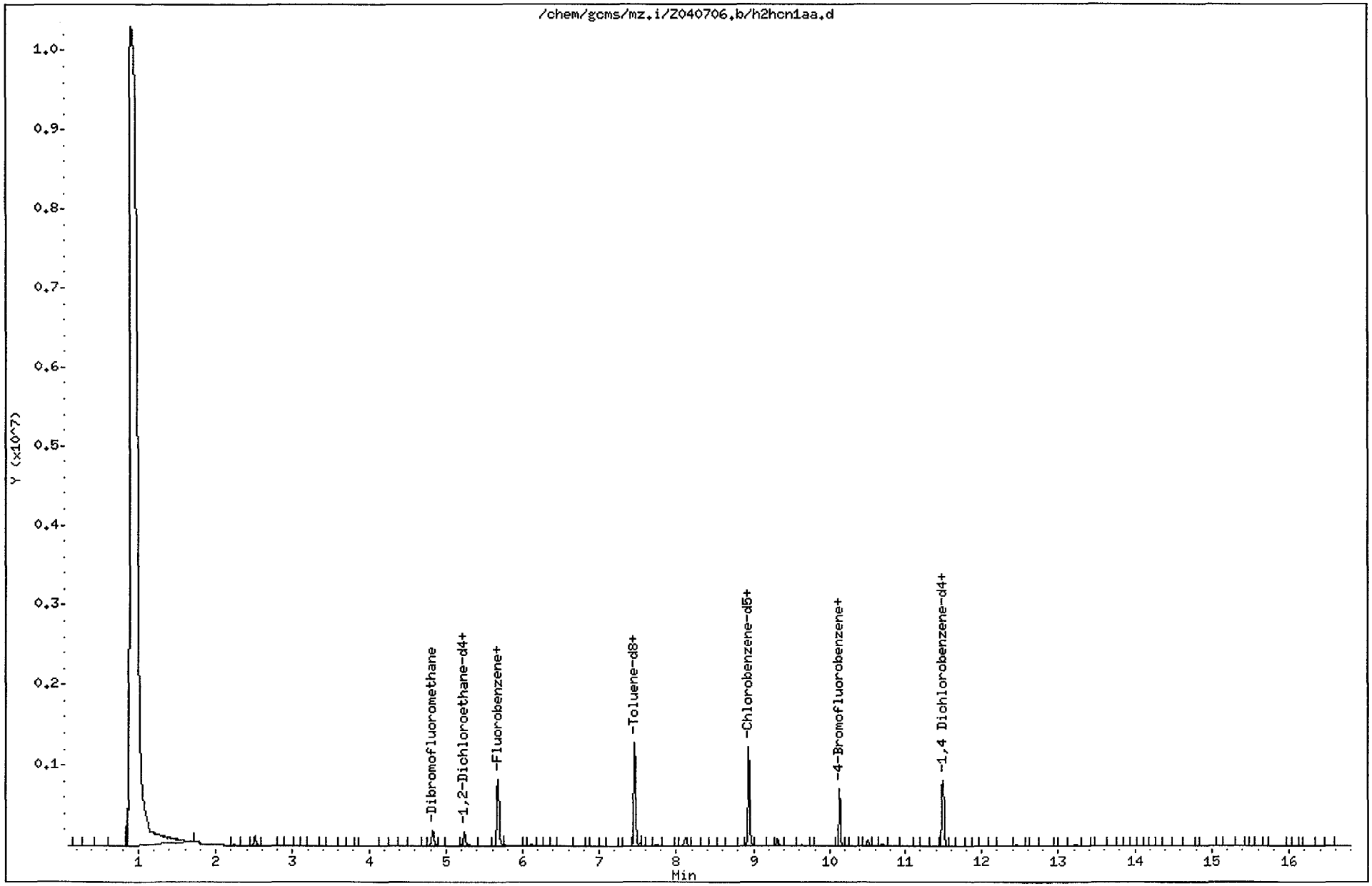
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.28027	112.11	50-150
$ 5 1,2-Dichloroethane	0.25000	0.25561	102.24	50-150
$ 6 Toluene-d8	0.25000	0.23317	93.27	50-150
$ 7 4-Bromofluorobenze	0.25000	0.21121	84.49	50-150

Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d
Date : 07-APR-2006 15:10
Client ID: G-3094-R3-VOST PAIR
Sample Info: H2HCN1AA,1,0,,

Instrument: mz.i

Operator: 22980
Column diameter: 0.18

Column phase: J+W 624



Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

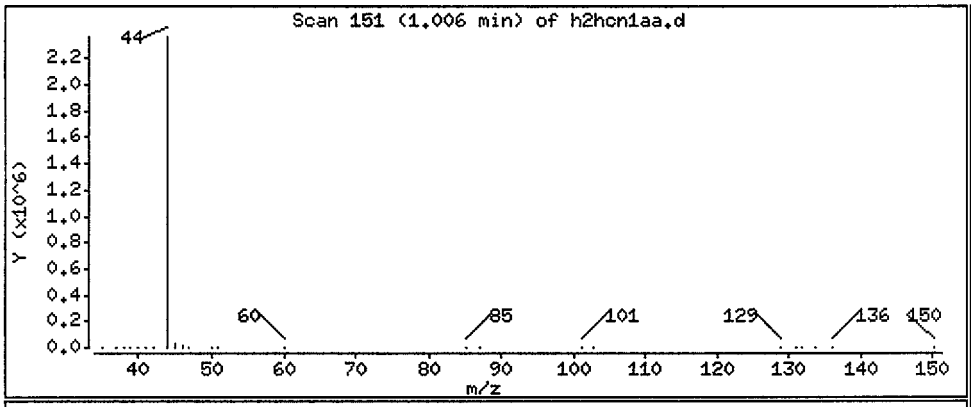
Operator: 22980

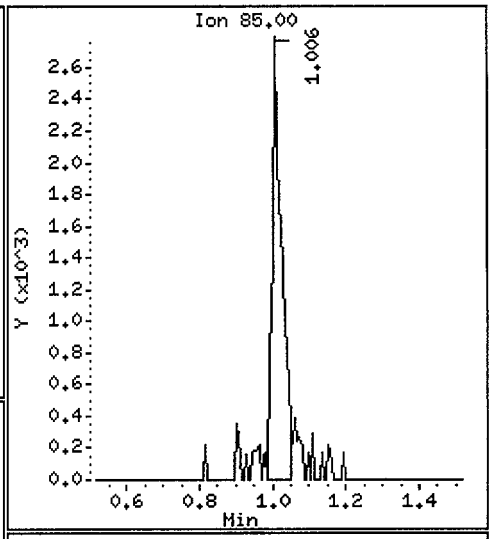
Column phase: J+W 624

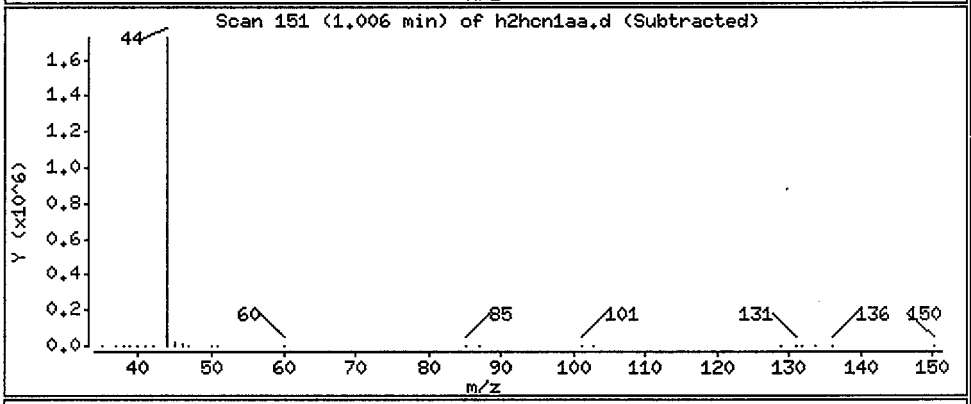
Column diameter: 0.18

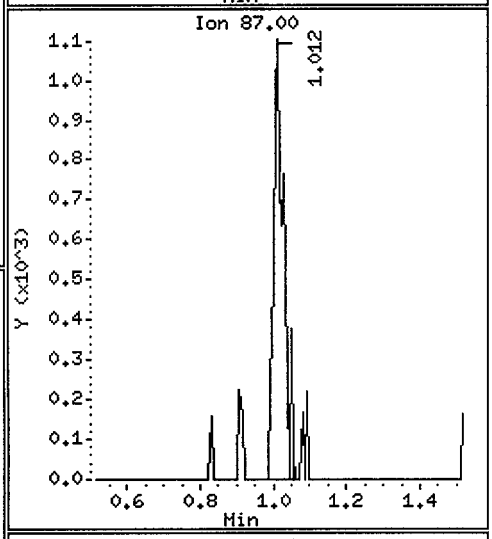
10 Dichlorodifluoromethane

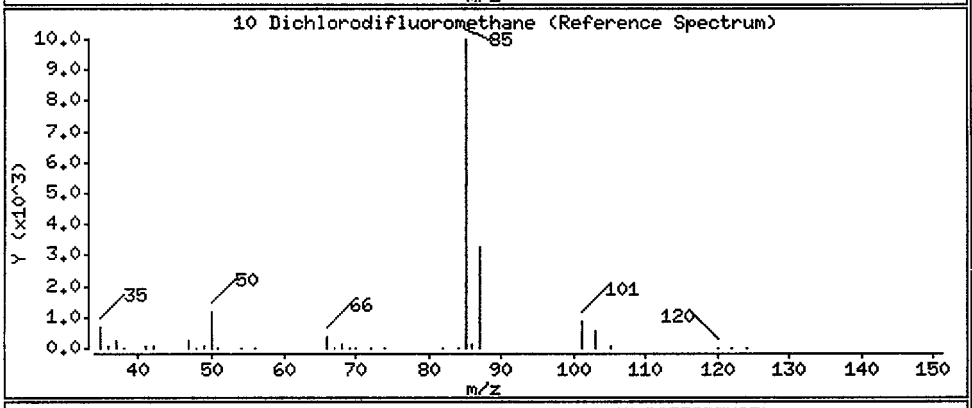
Concentration: 0.0064440 ug

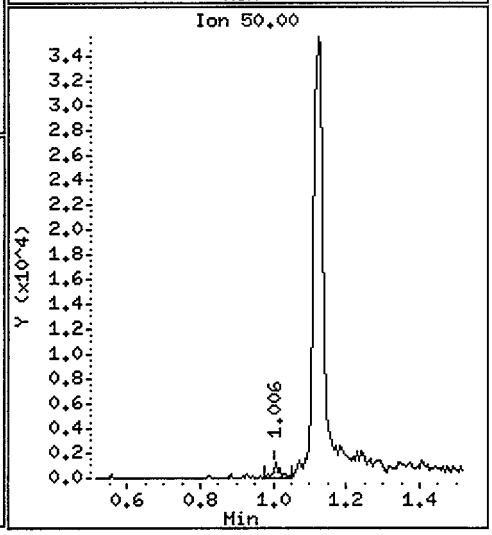


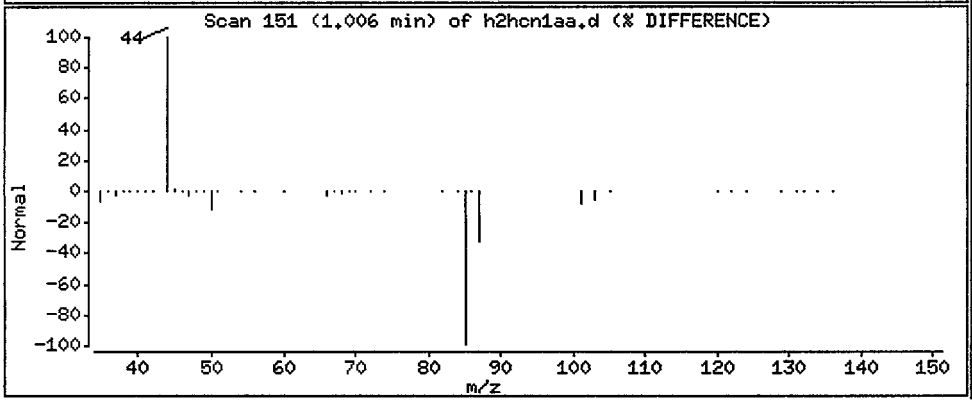












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

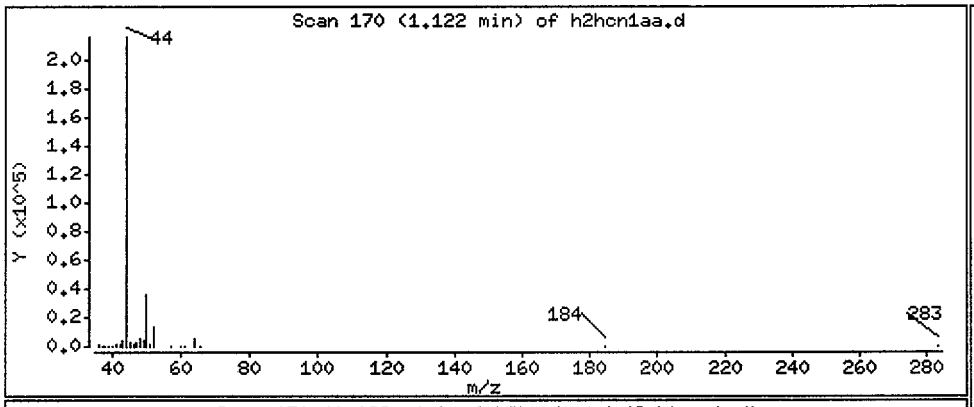
Operator: 22980

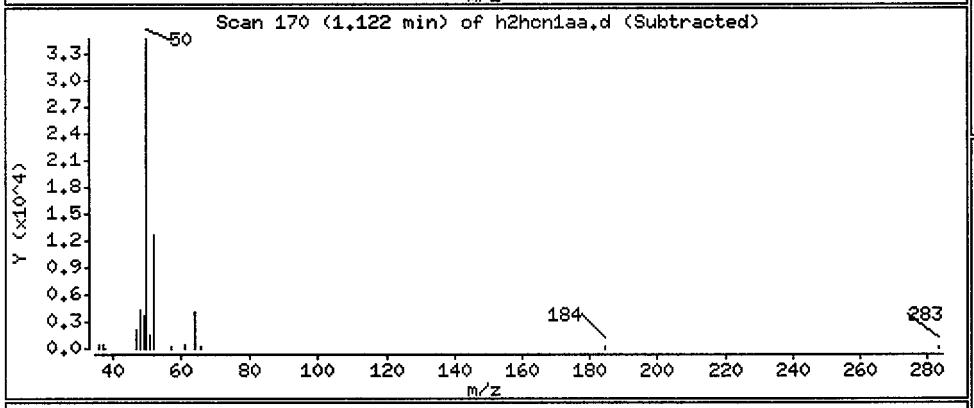
Column phase: J+W 624

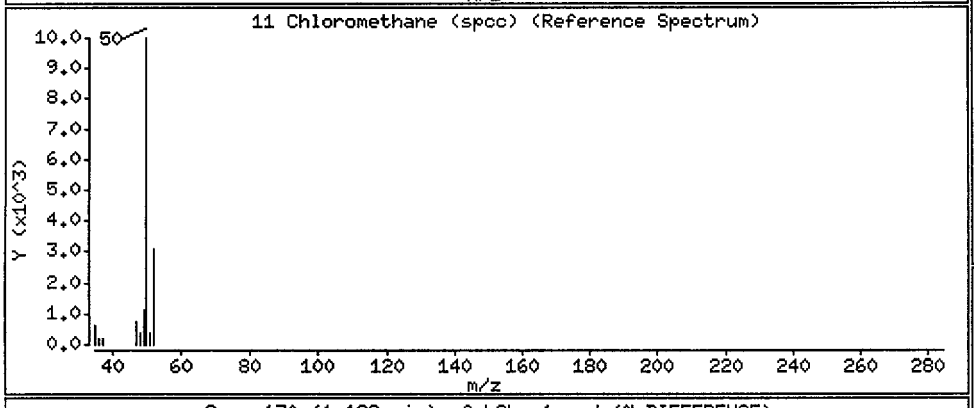
Column diameter: 0.18

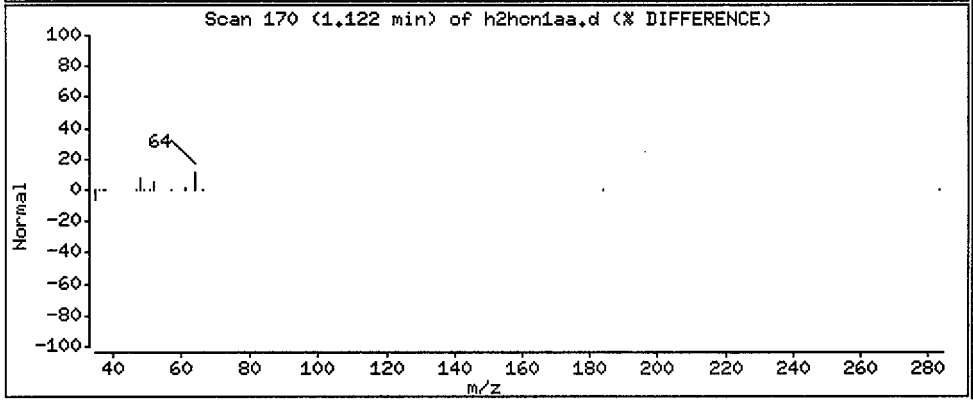
11 Chloromethane (spcc)

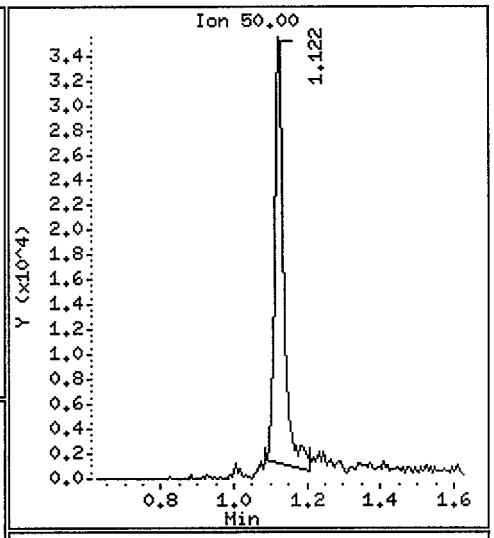
Concentration: 0.021006 ug

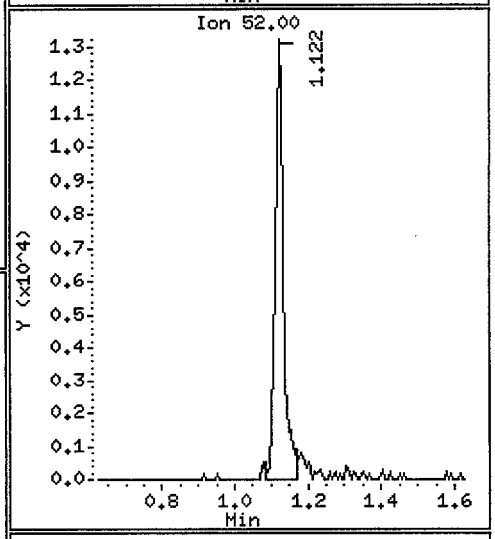


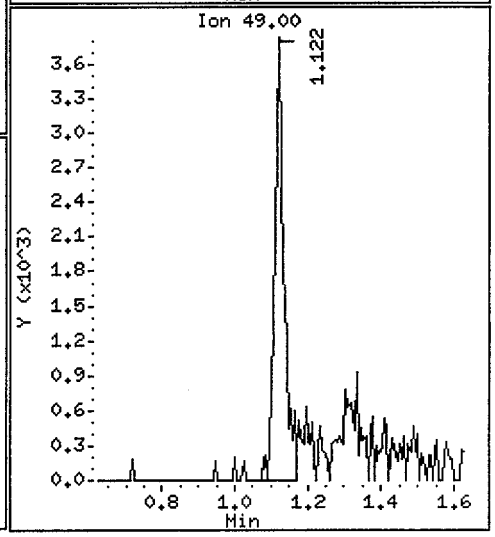












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

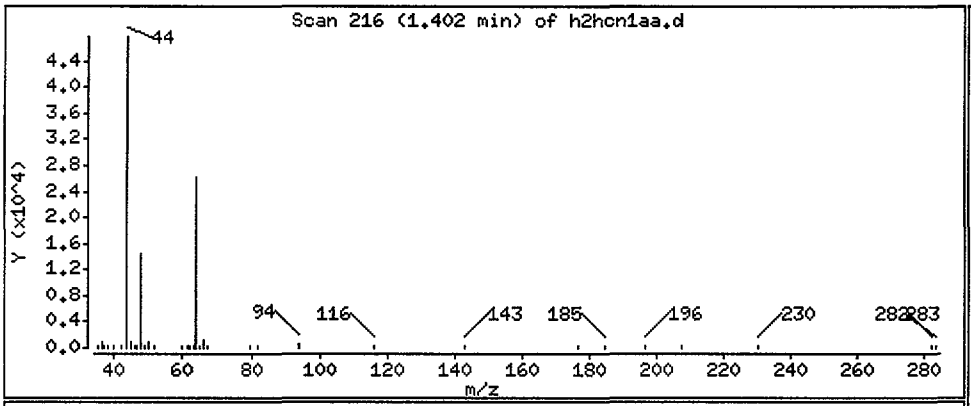
Operator: 22980

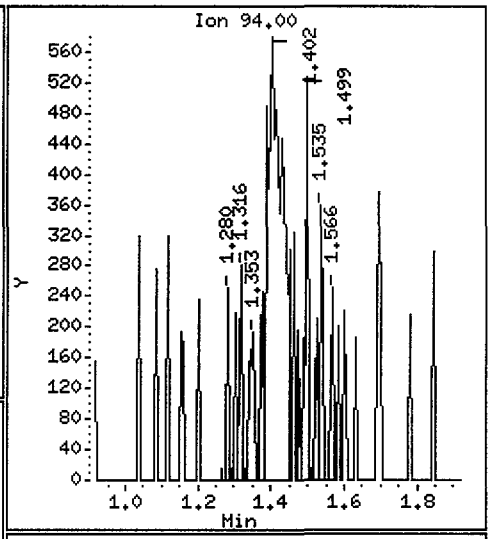
Column phase: J+W 624

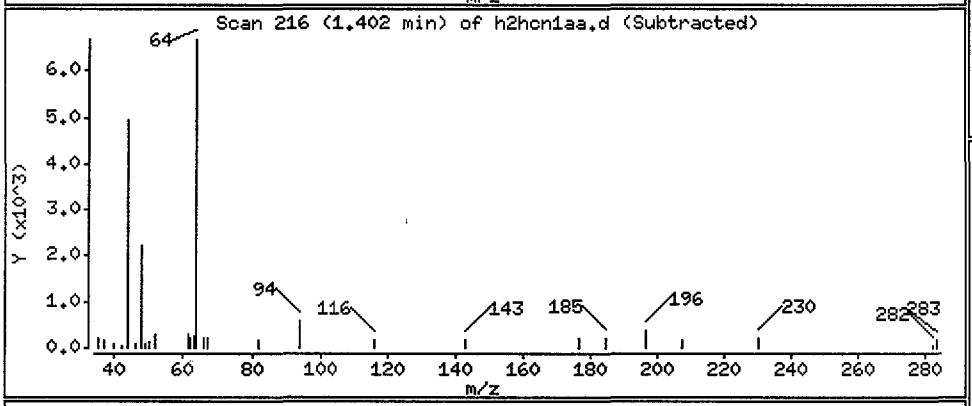
Column diameter: 0.18

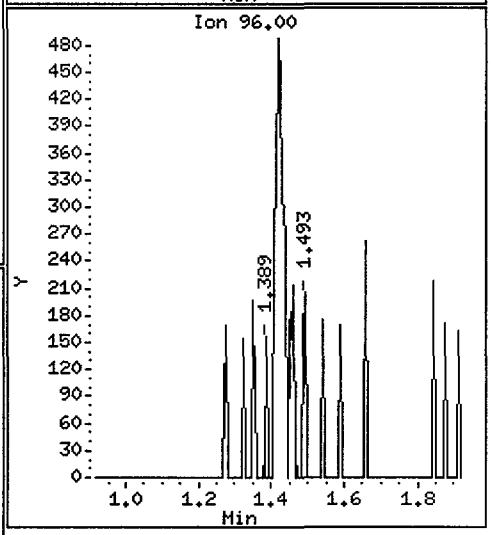
15 Bromomethane

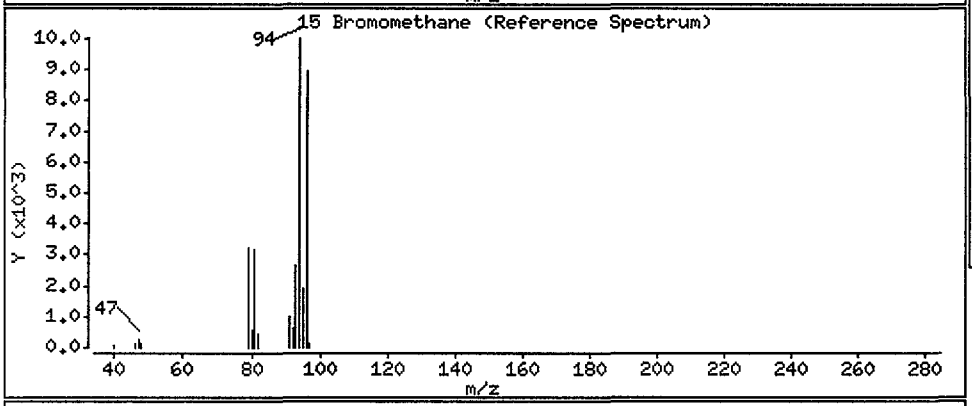
Concentration: 0.026203 ug

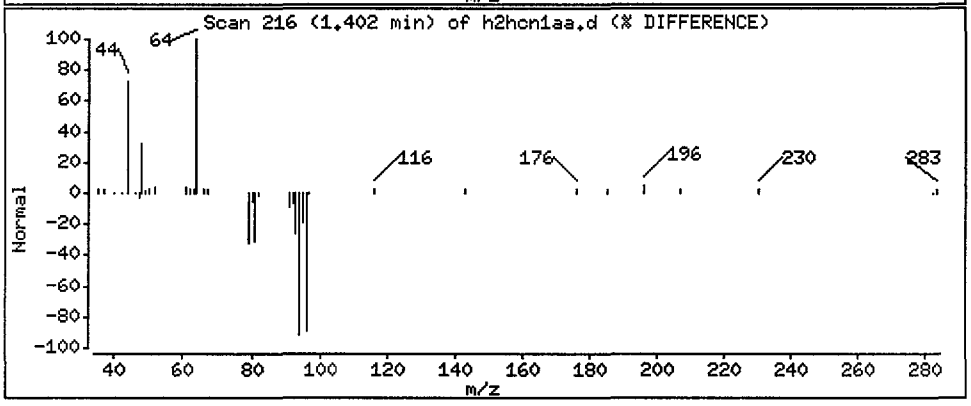












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

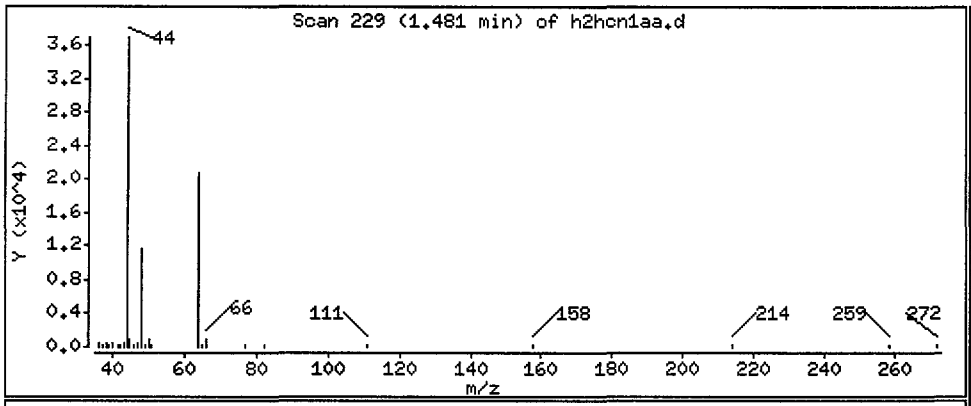
Operator: 22980

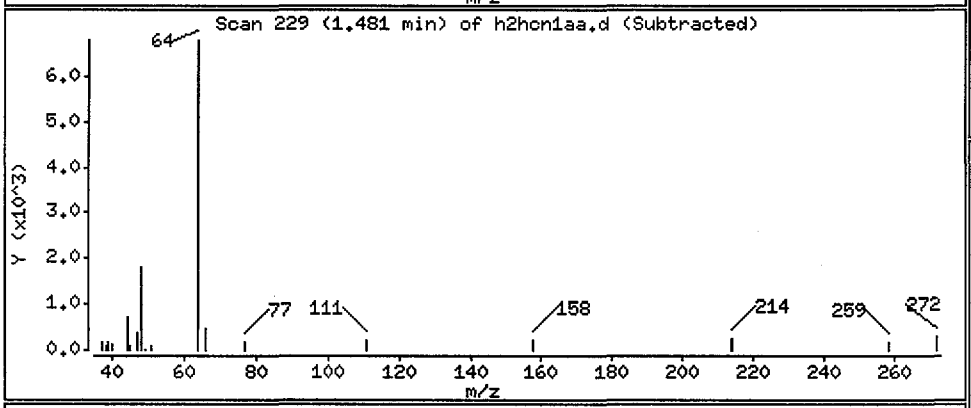
Column phase: J+W 624

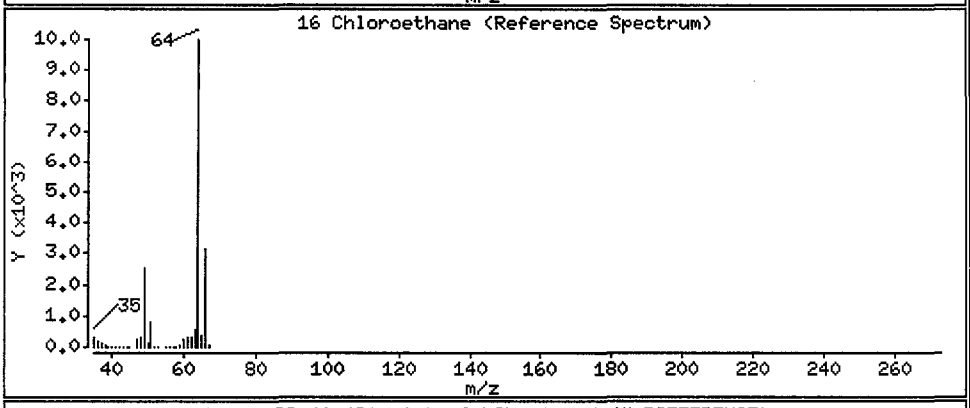
Column diameter: 0.18

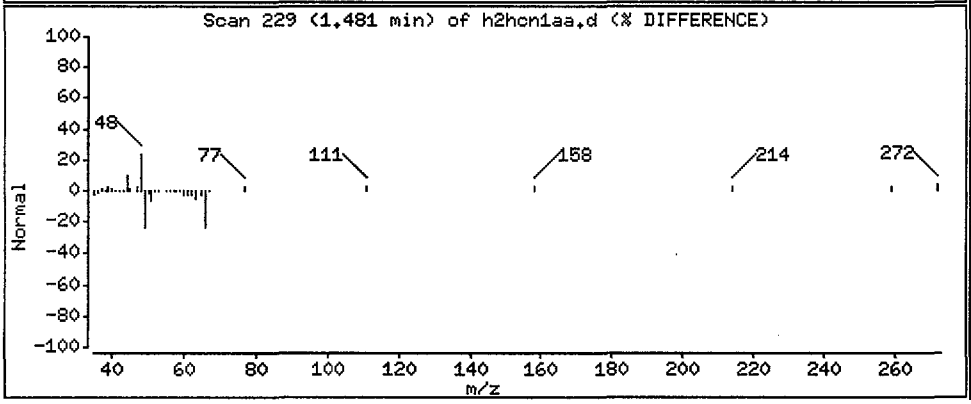
16 Chloroethane

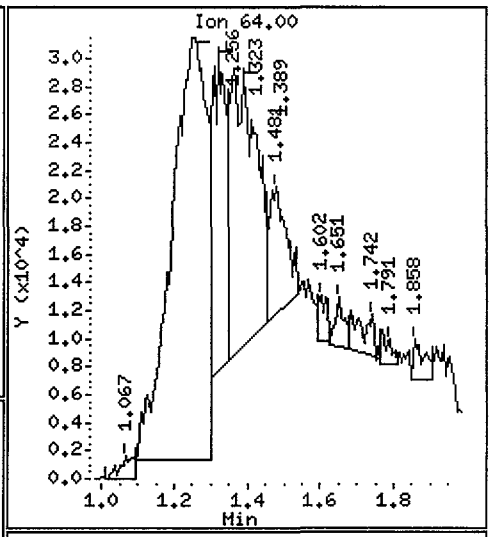
Concentration: 0.052954 ug

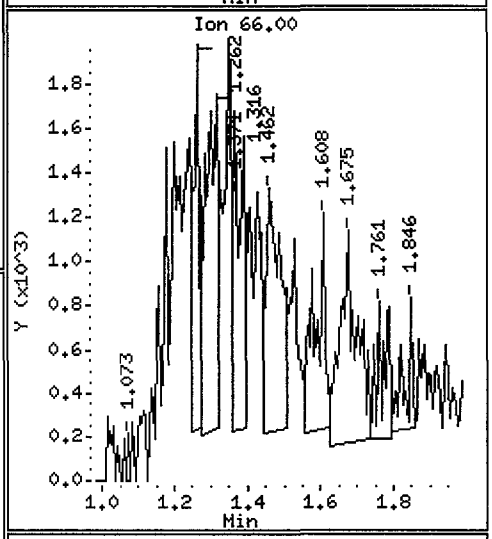


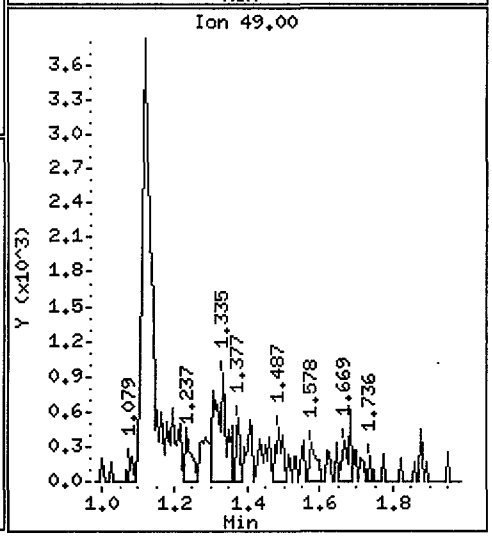












Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

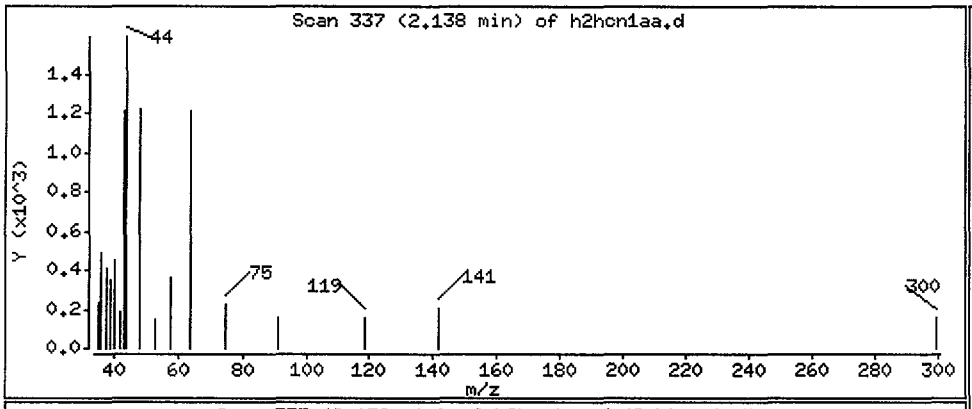
Operator: 22980

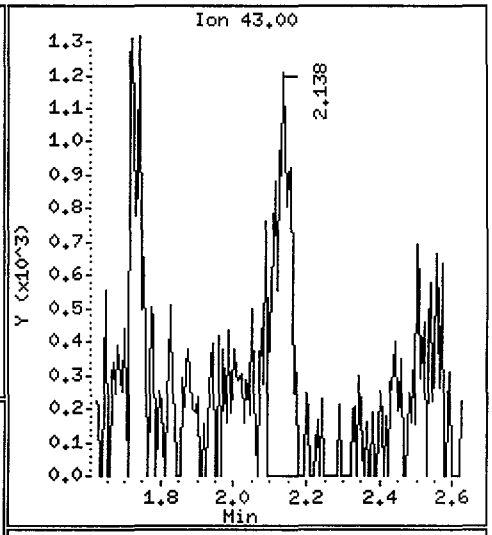
Column phase: J+W 624

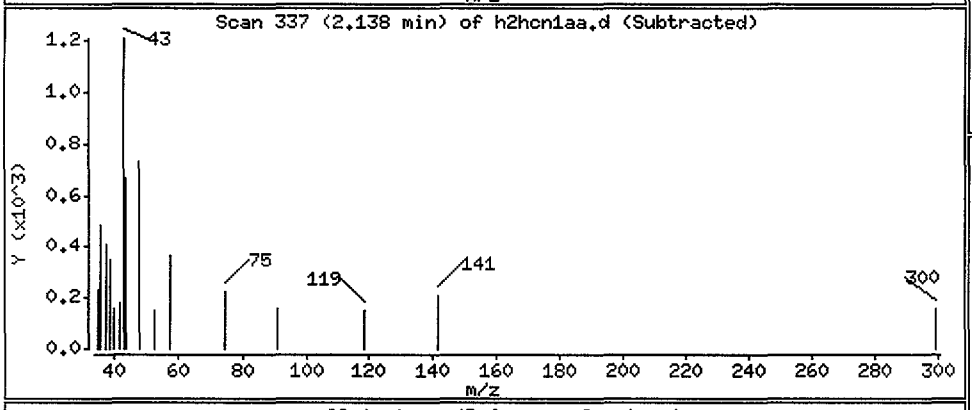
Column diameter: 0.18

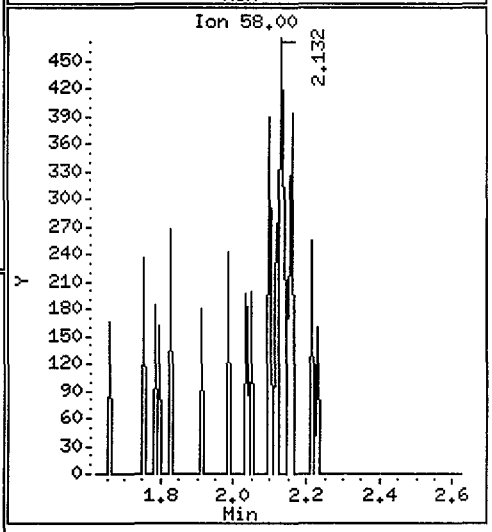
22 Acetone

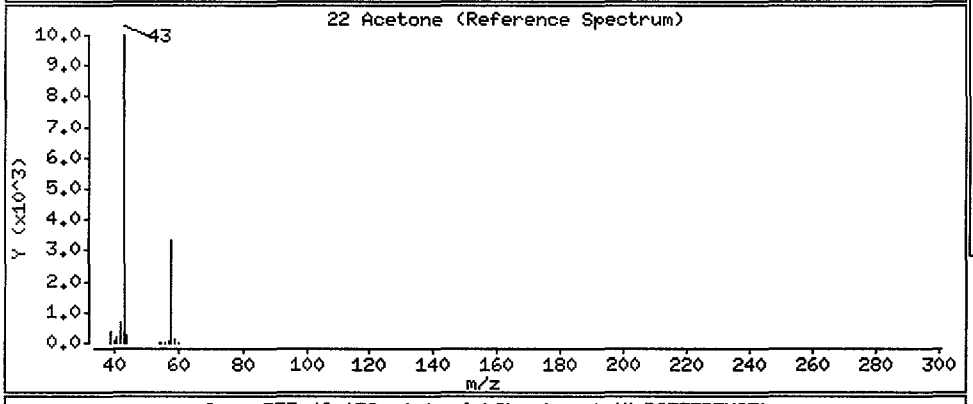
Concentration: 0.10029 ug

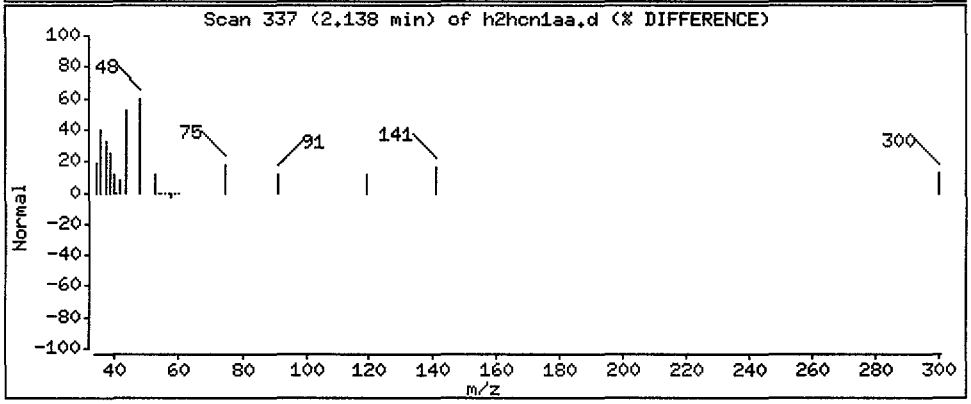












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

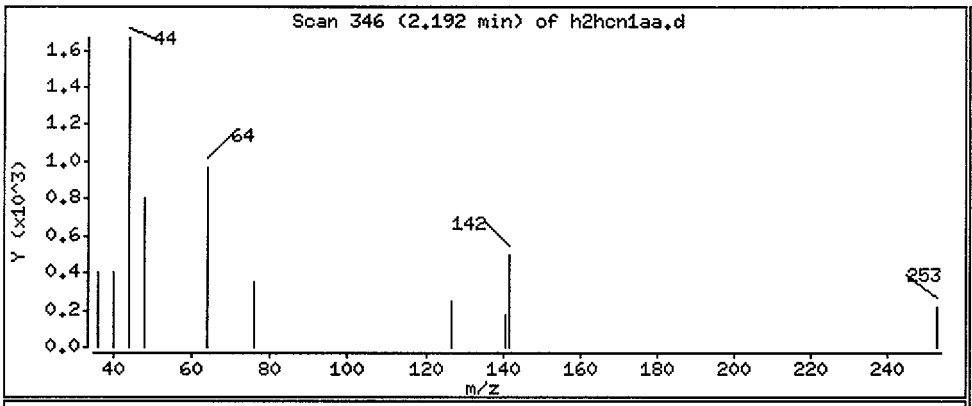
Operator: 22980

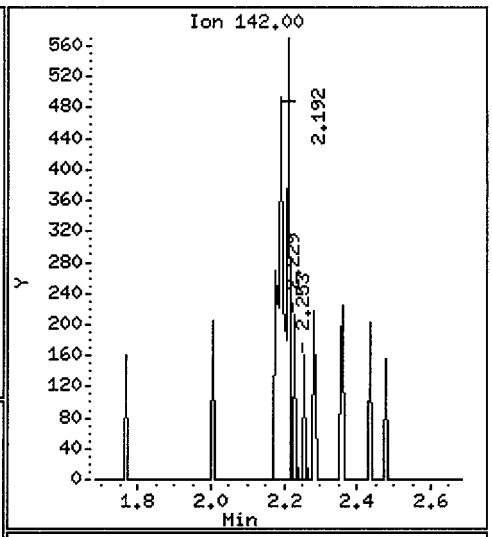
Column phase: J+W 624

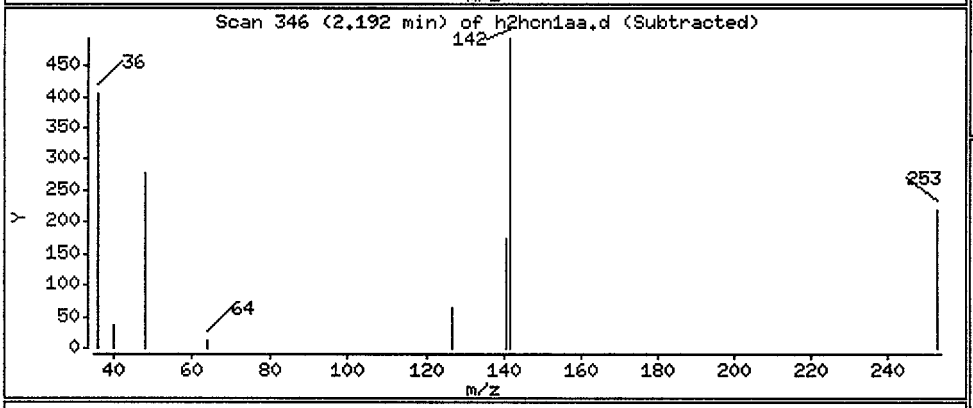
Column diameter: 0.18

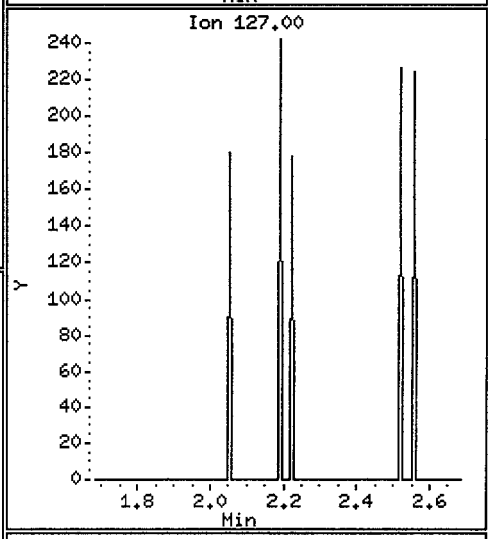
23 *Iodomethane

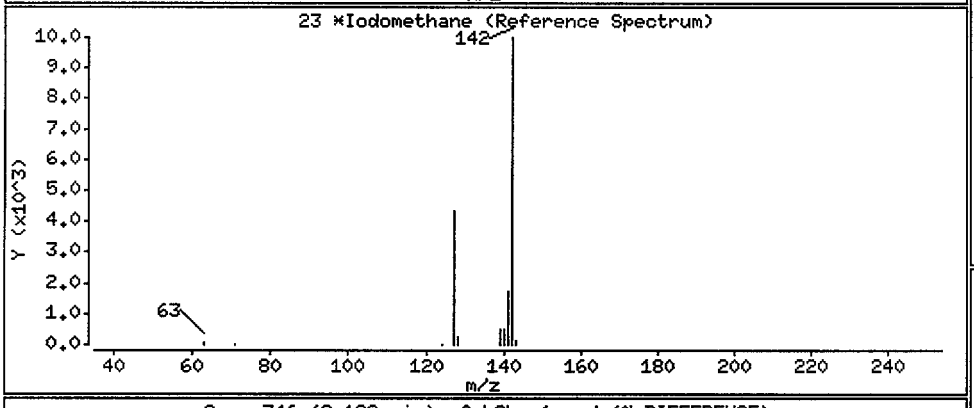
Concentration: 0.014044 ug

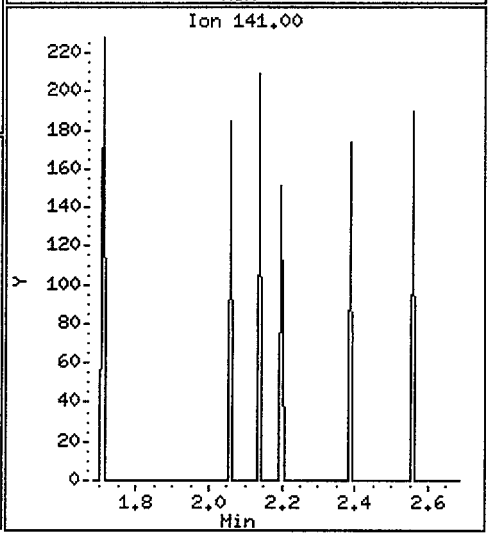


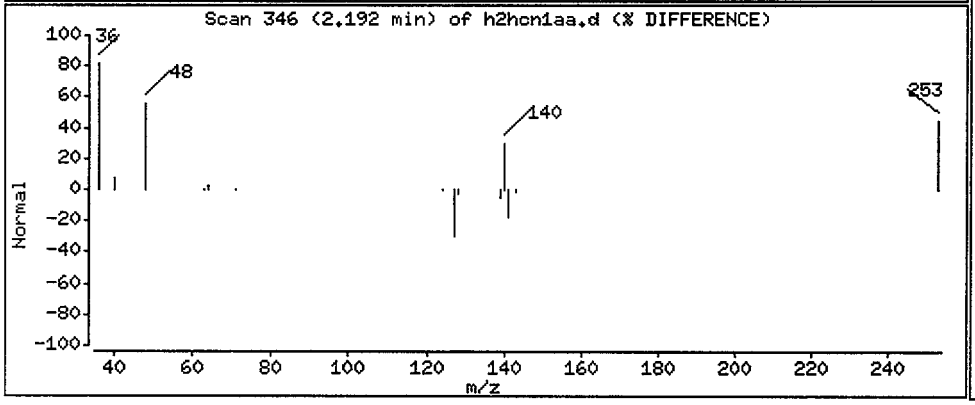












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

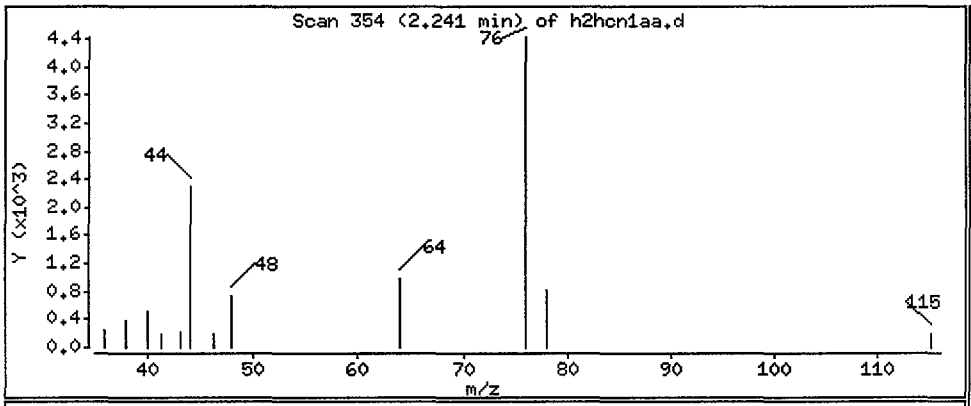
Operator: 22980

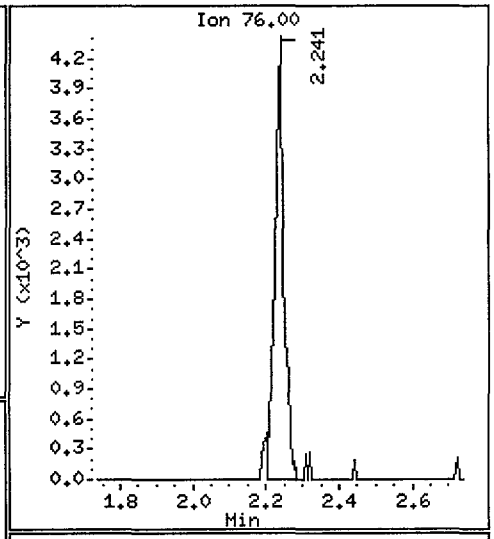
Column phase: J+W 624

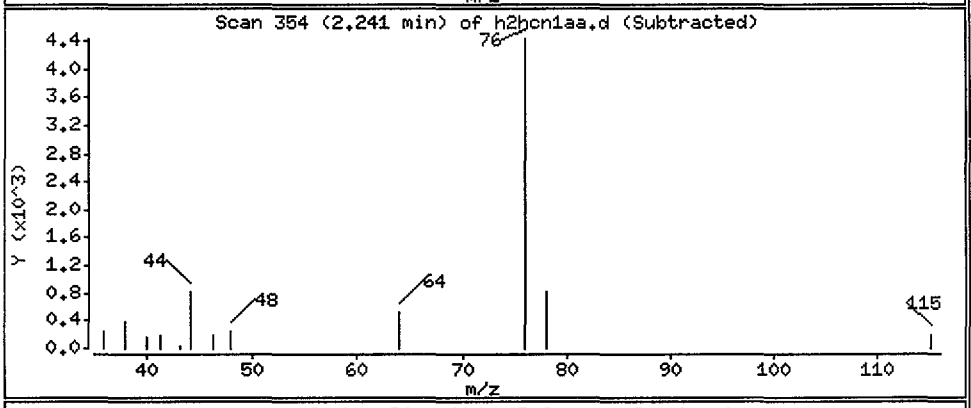
Column diameter: 0.18

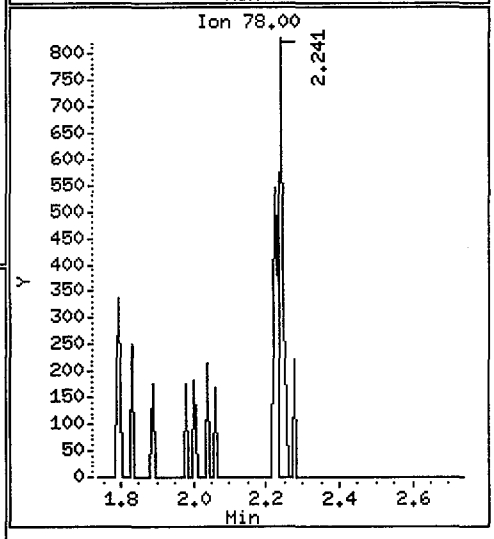
24 Carbon Disulfide

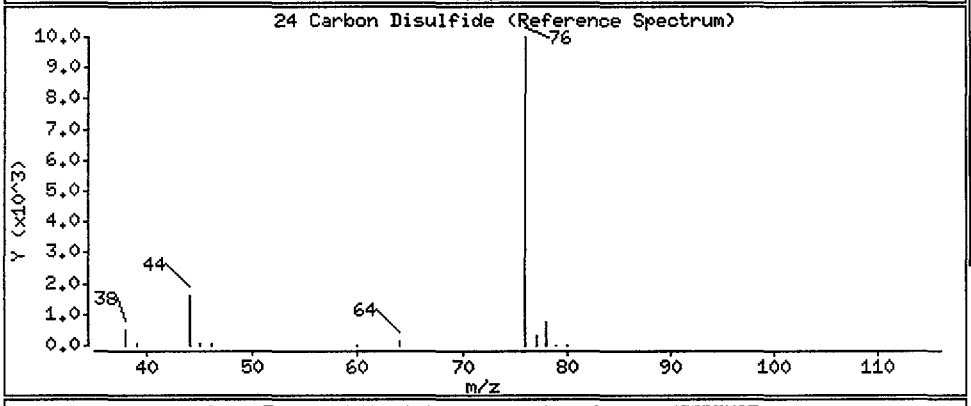
Concentration: 0.0031791 ug

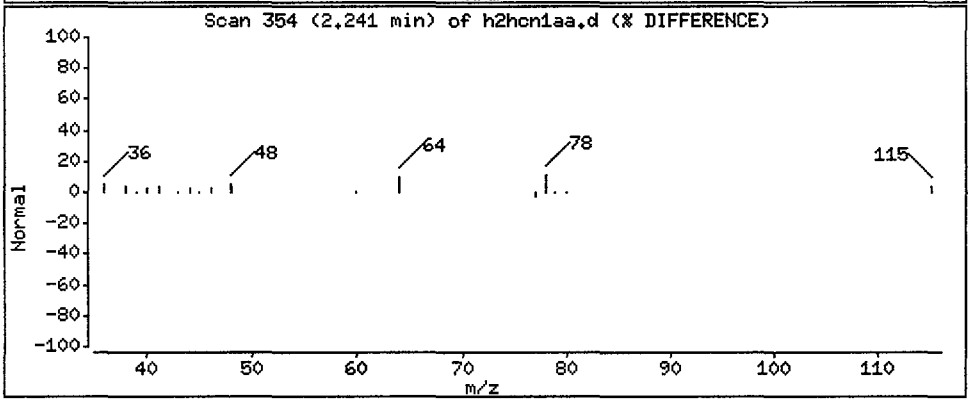












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

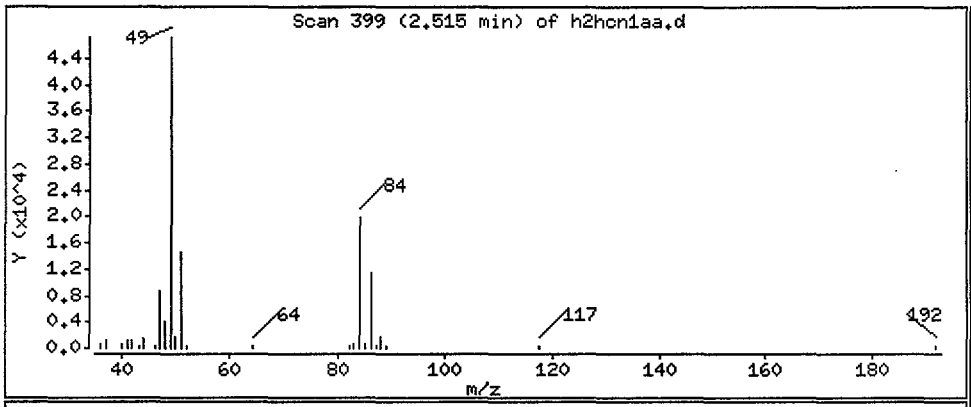
Operator: 22980

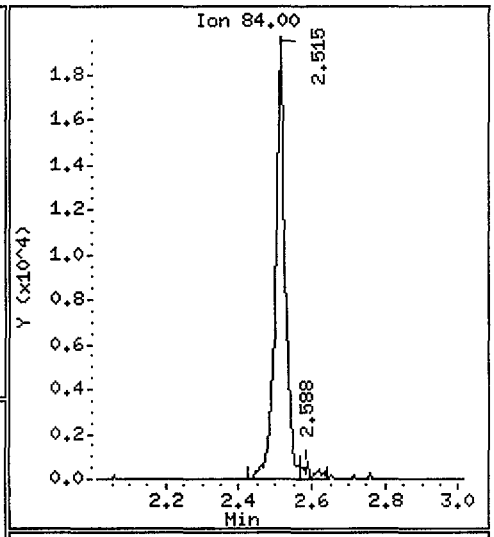
Column phase: J+W 624

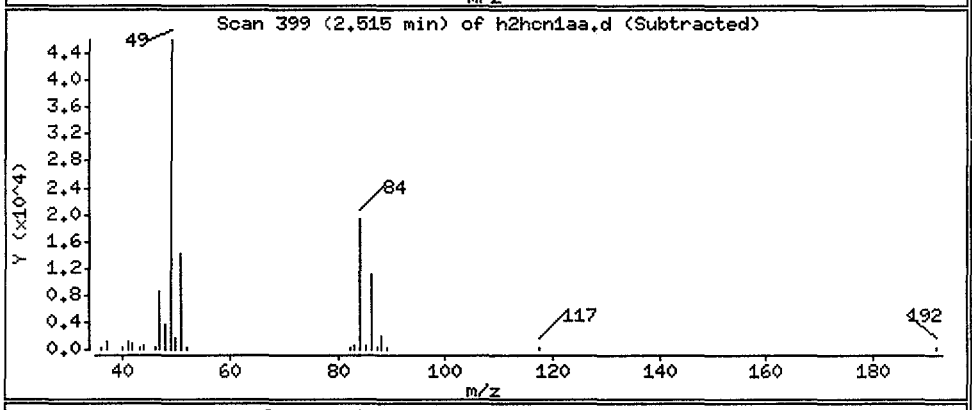
Column diameter: 0.18

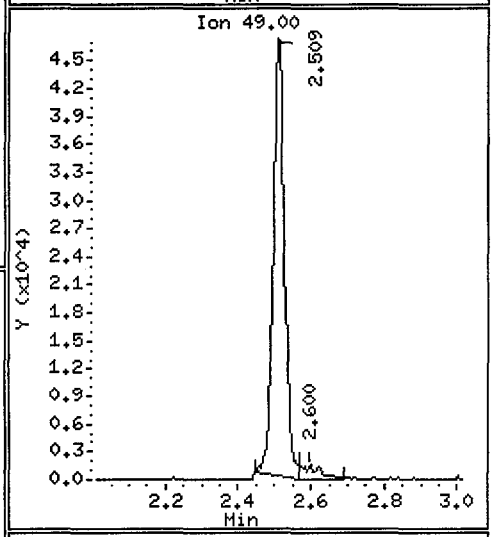
27 Methylene Chloride

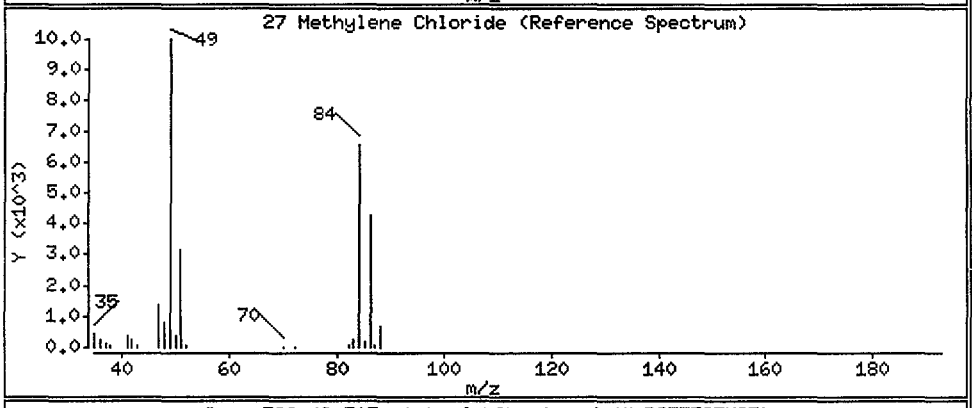
Concentration: 0.070633 ug

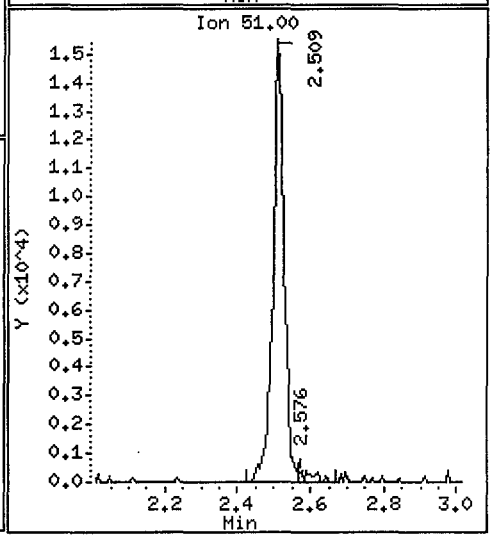


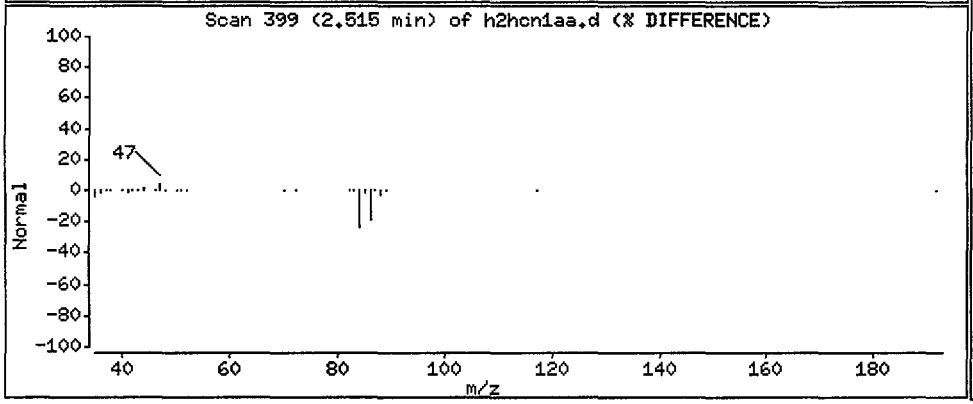












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

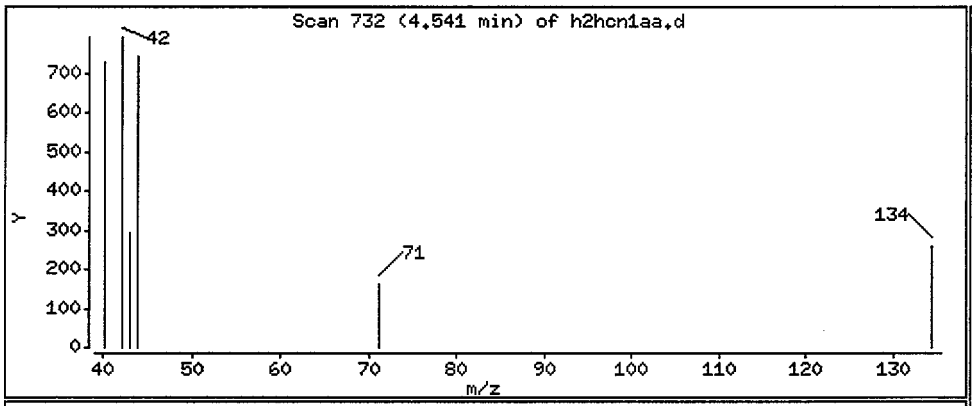
Operator: 22980

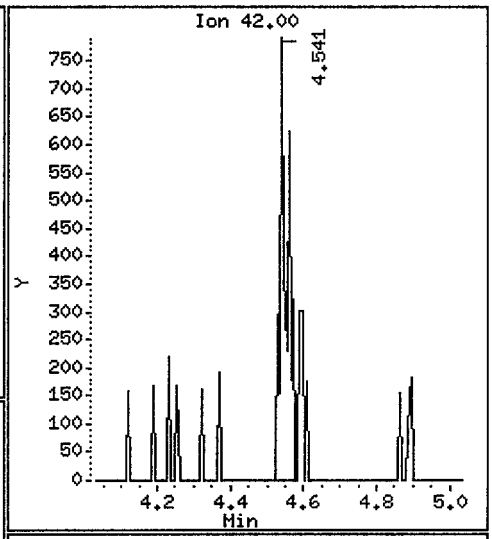
Column phase: J+W 624

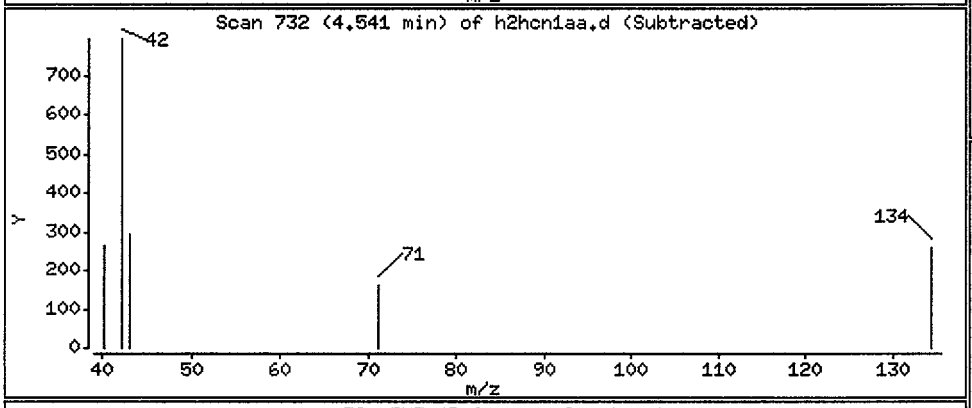
Column diameter: 0.18

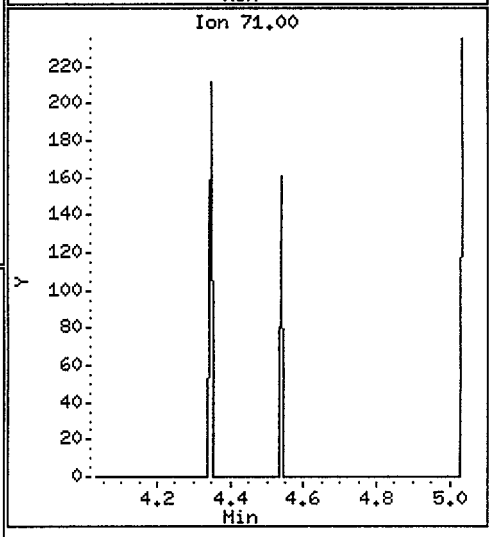
39 *THF

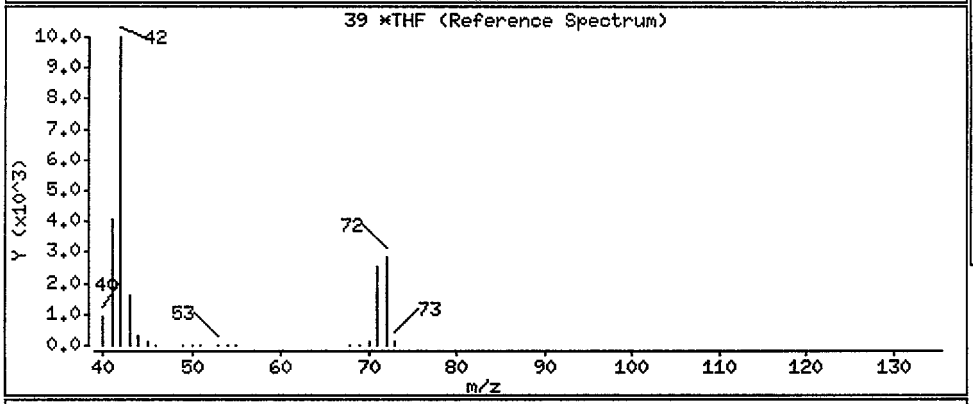
Concentration: 0.014690 ug

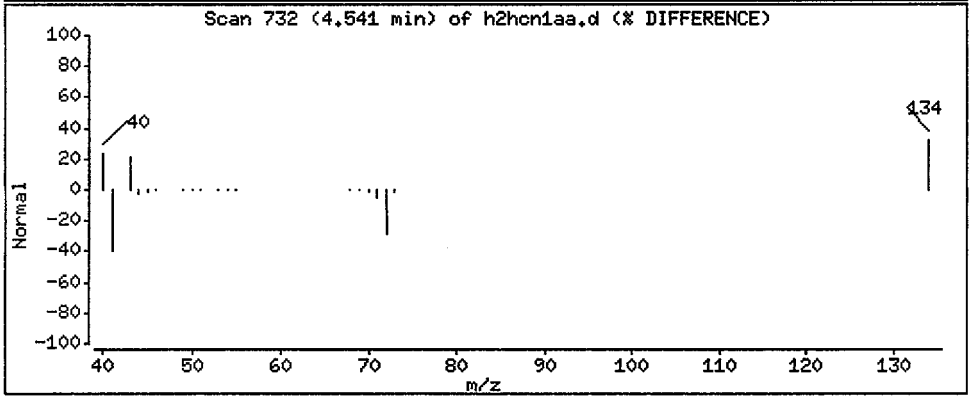












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

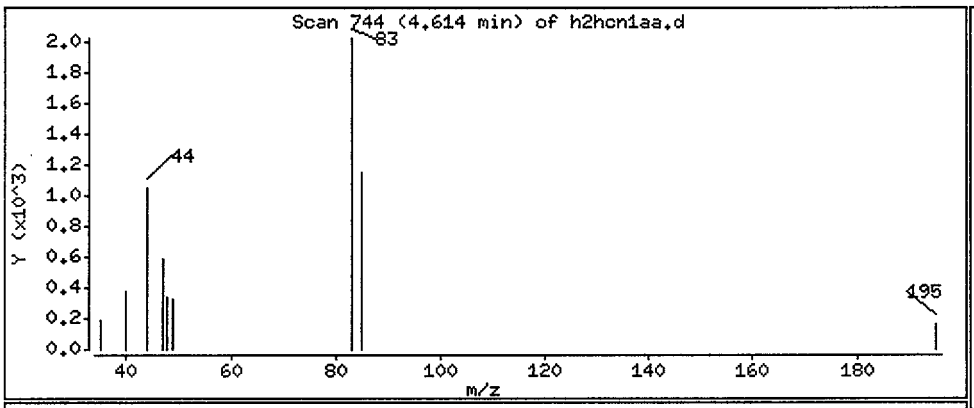
Operator: 22980

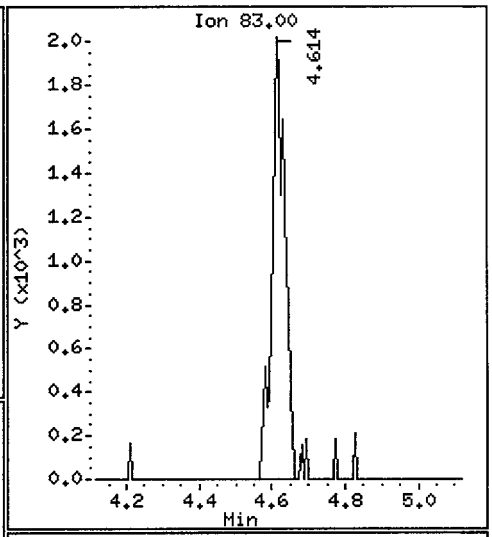
Column phase: J+W 624

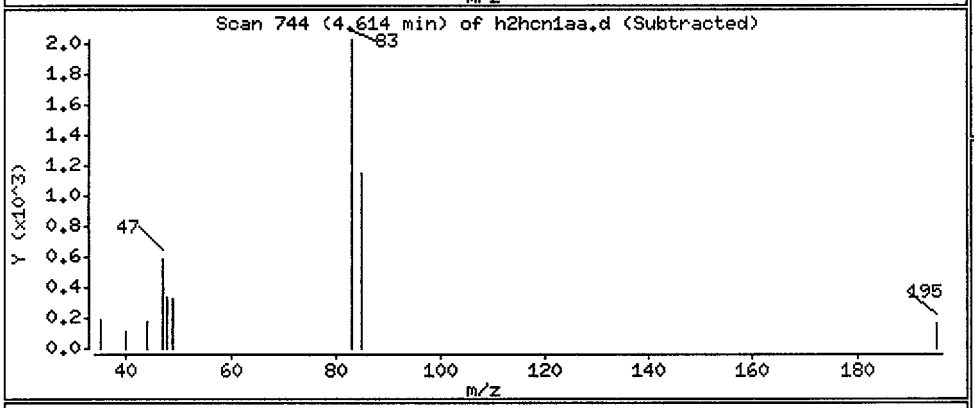
Column diameter: 0.18

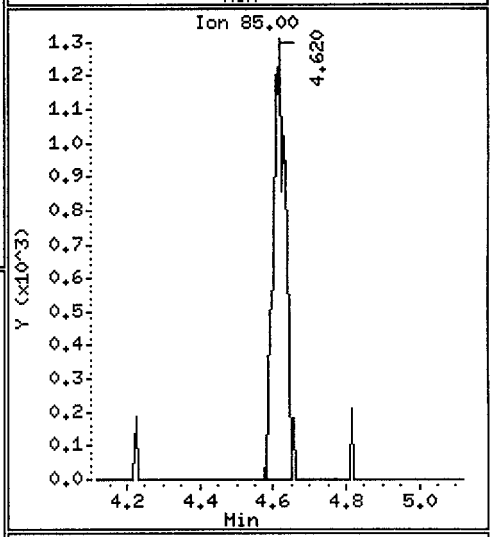
40 Chloroform (ccc)

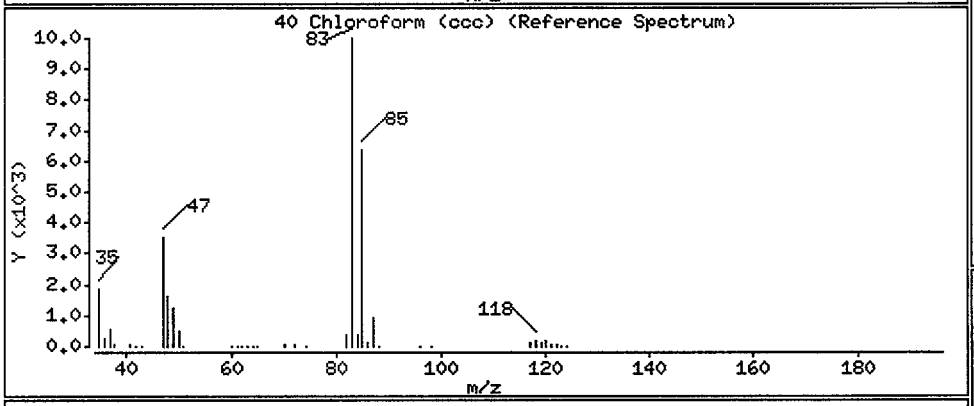
Concentration: 0.0044357 ug

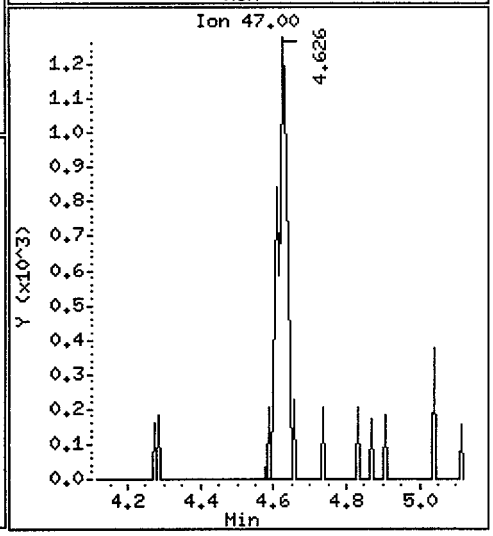


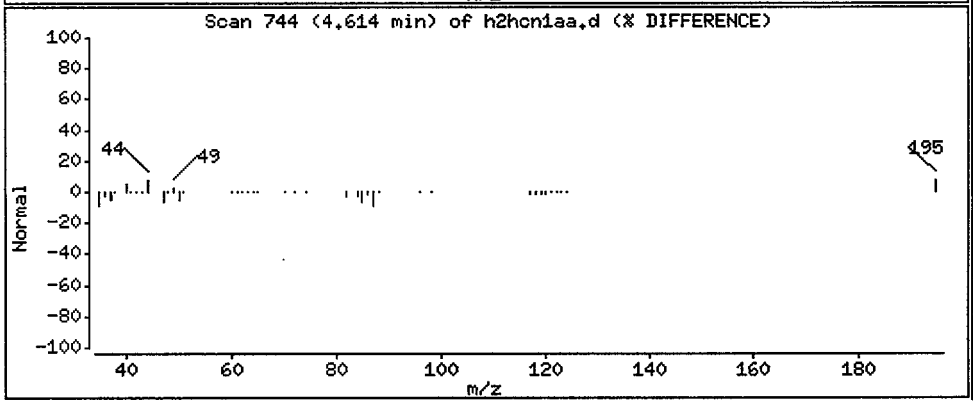












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

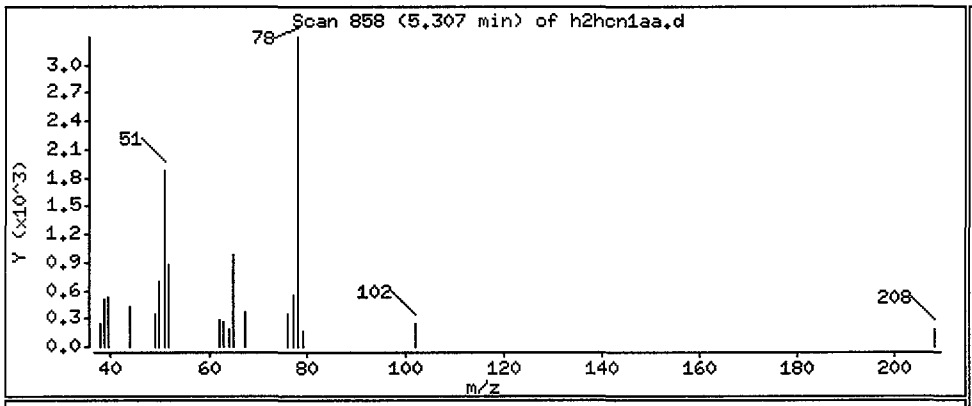
Operator: 22980

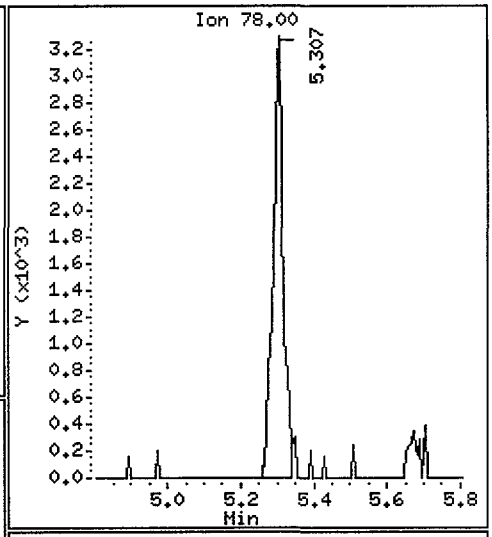
Column phase: J+W 624

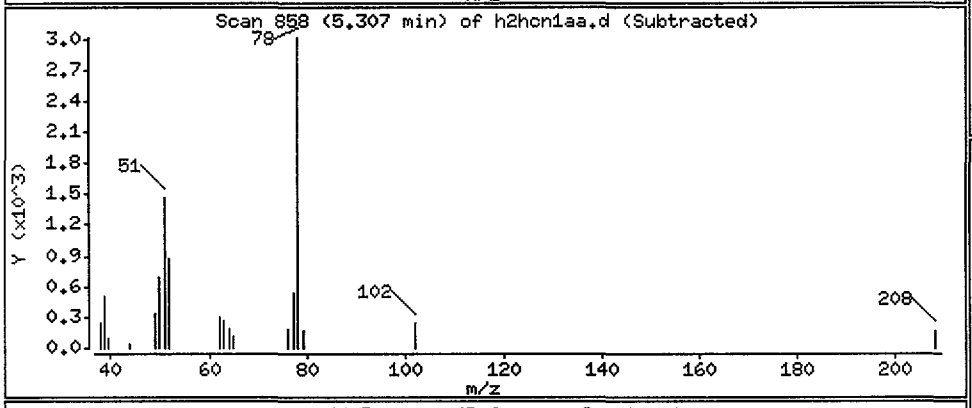
Column diameter: 0.18

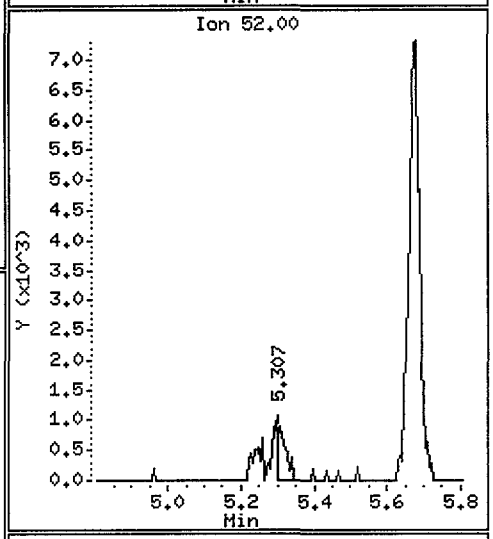
44 Benzene

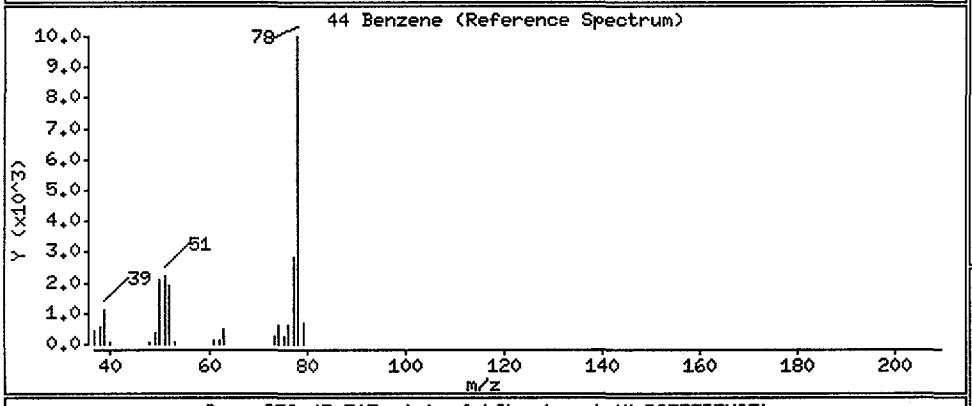
Concentration: 0.0020860 ug

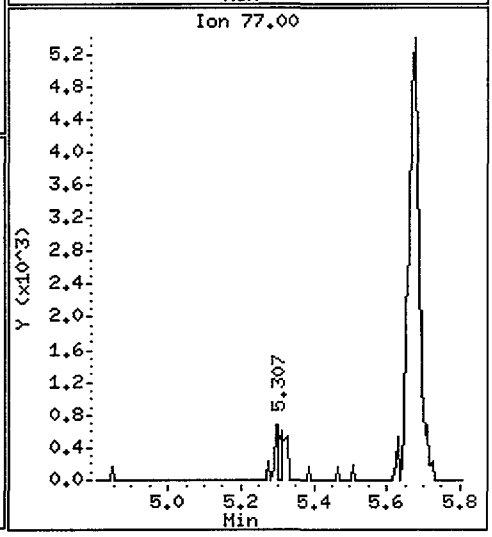


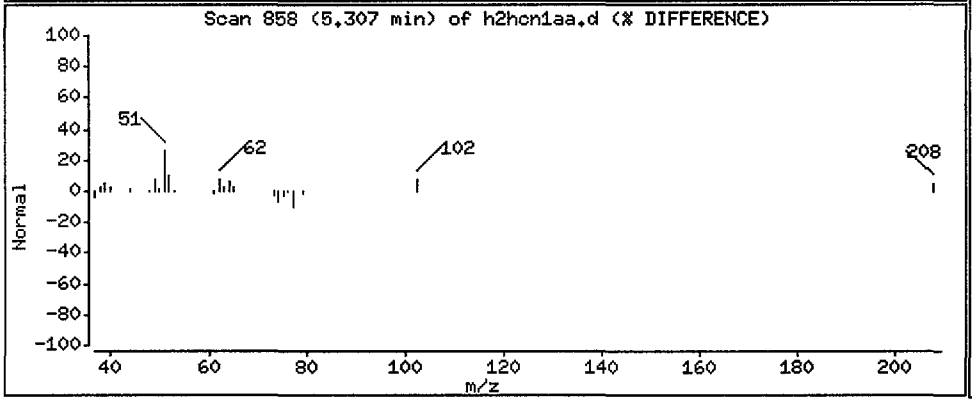












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

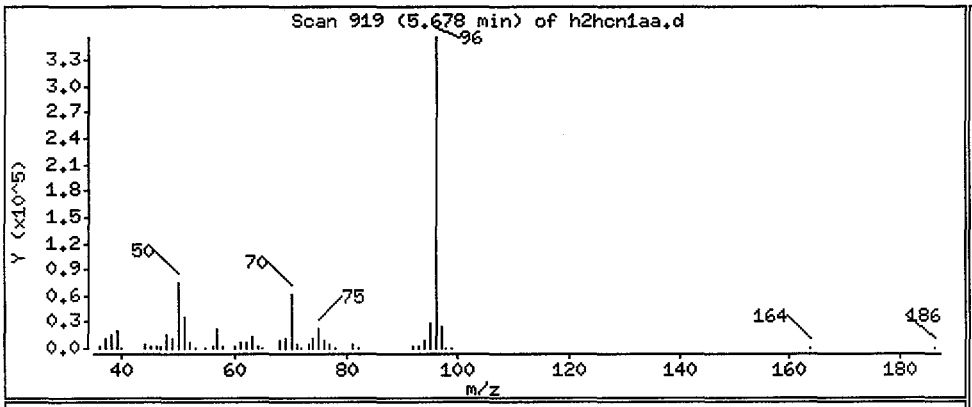
Operator: 22980

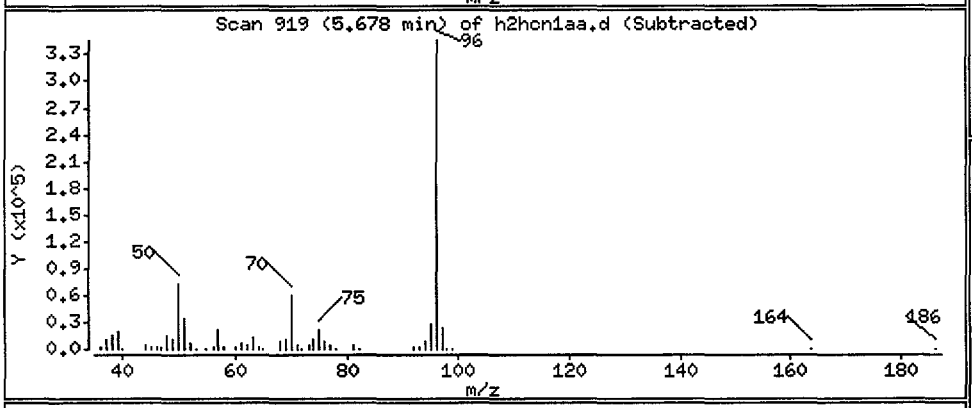
Column phase: J+W 624

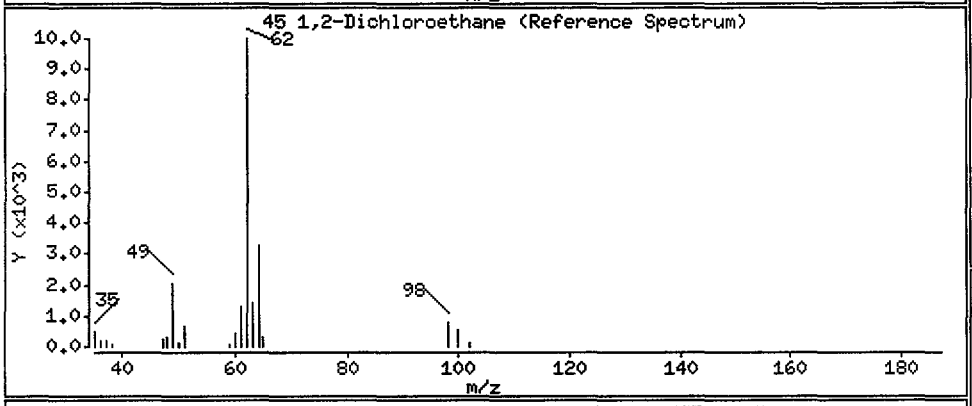
Column diameter: 0.18

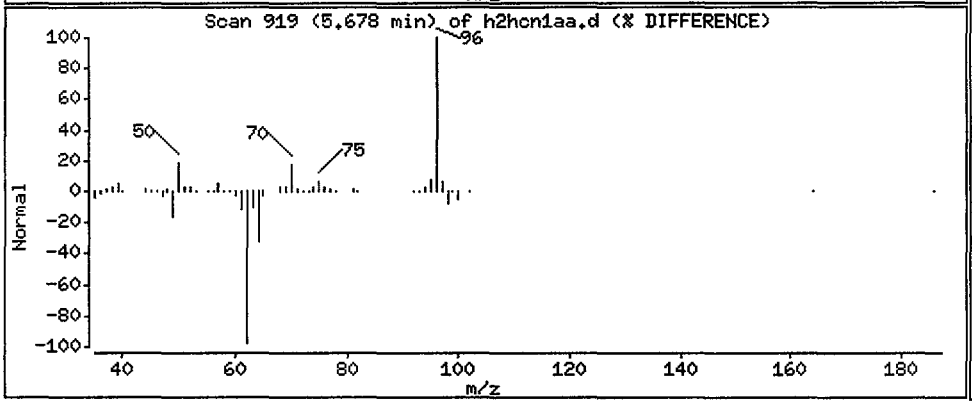
45 1,2-Dichloroethane

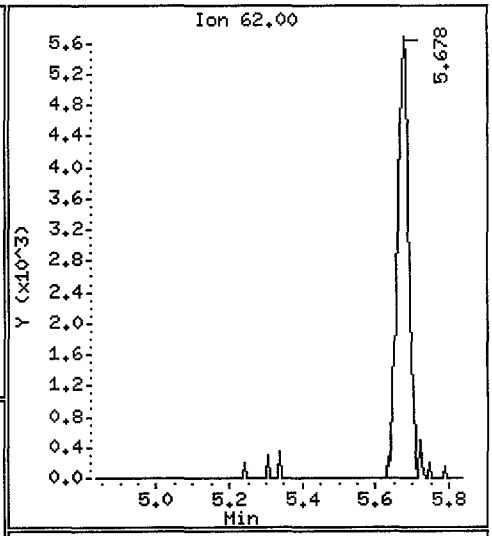
Concentration: 0.018719 ug

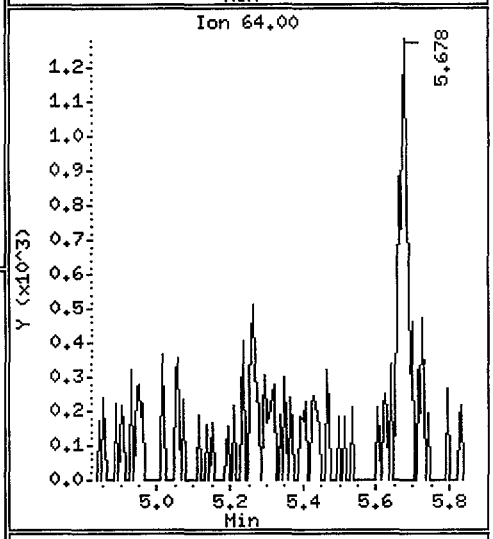


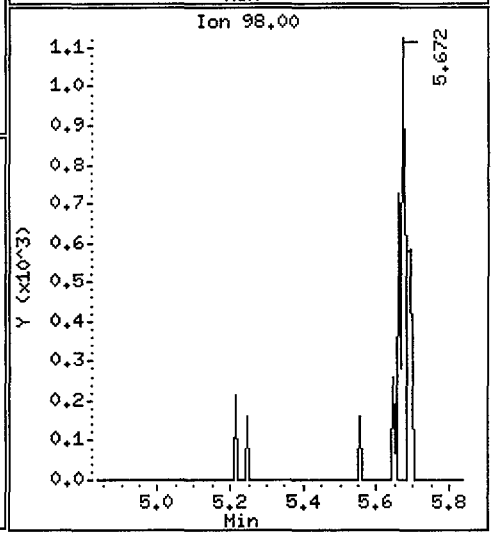












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

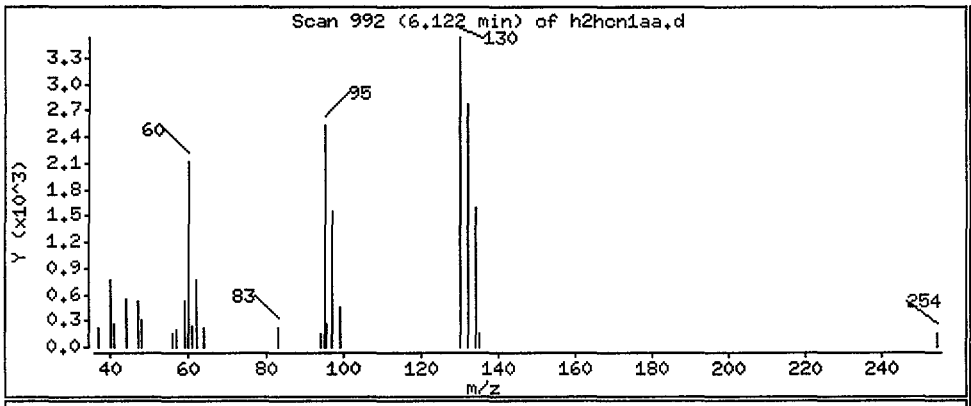
Operator: 22980

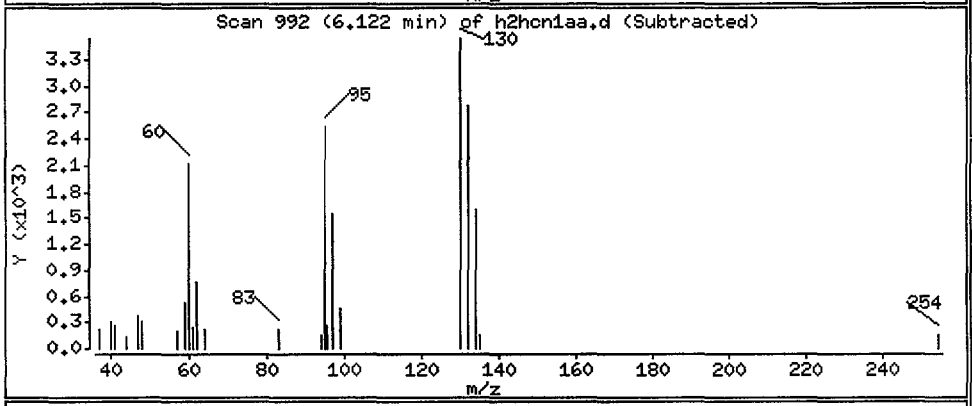
Column phase: J+W 624

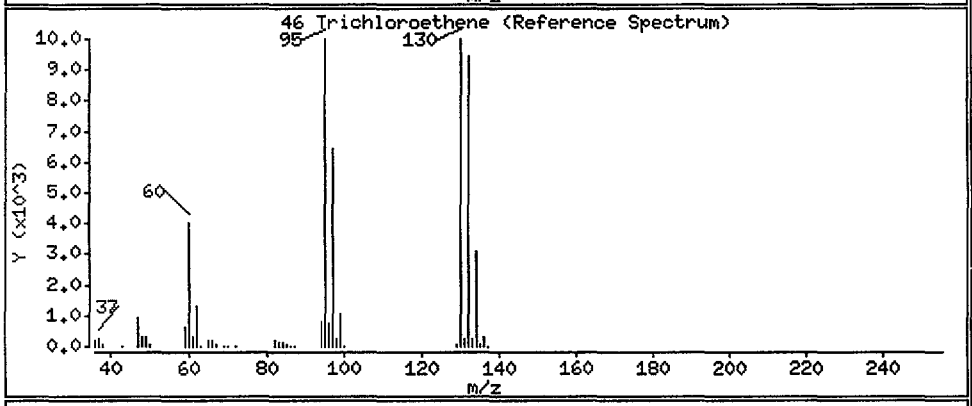
Column diameter: 0.18

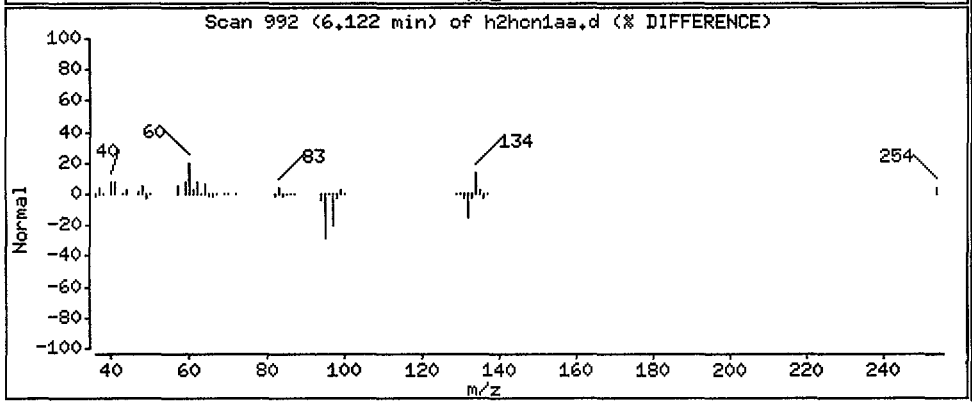
46 Trichloroethene

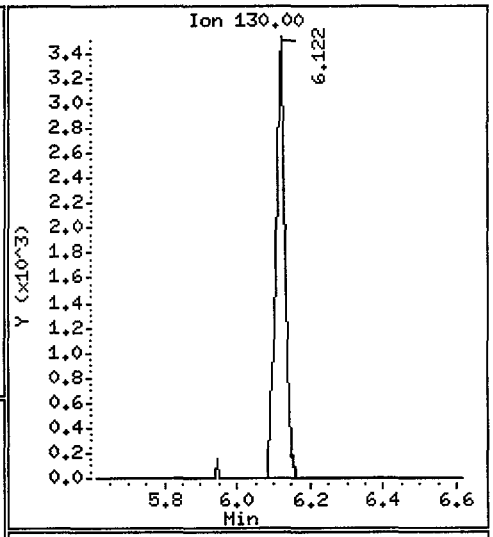
Concentration: 0.0071512 ug

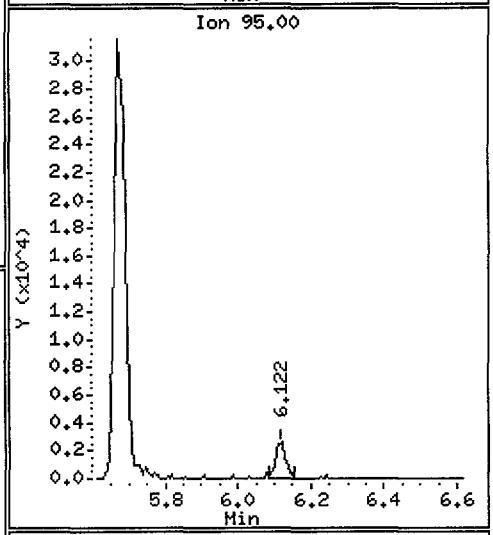


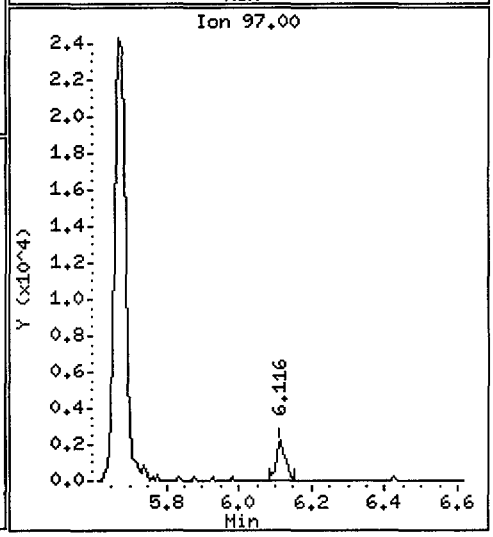












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

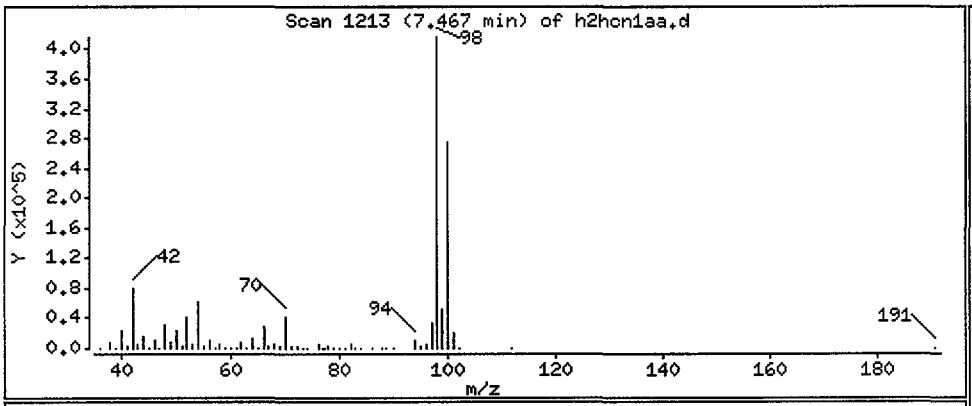
Operator: 22980

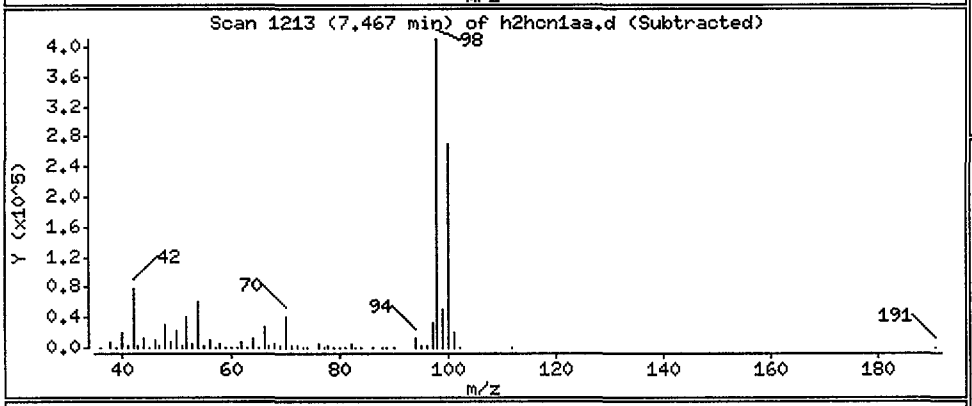
Column phase: J+W 624

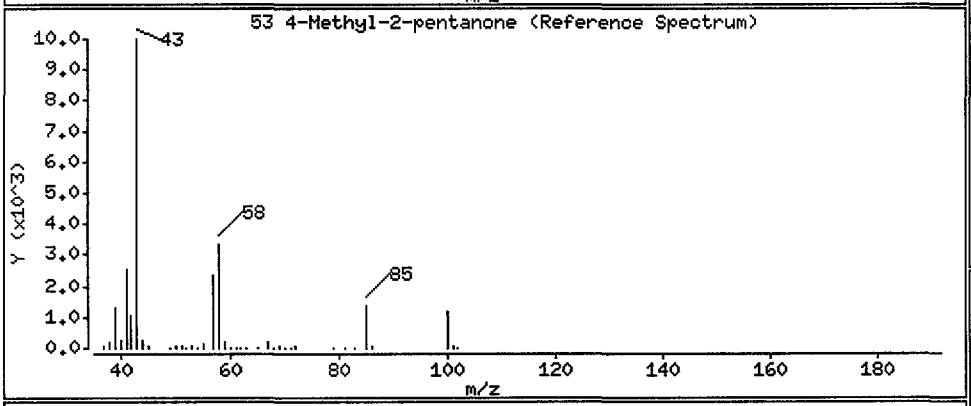
Column diameter: 0.18

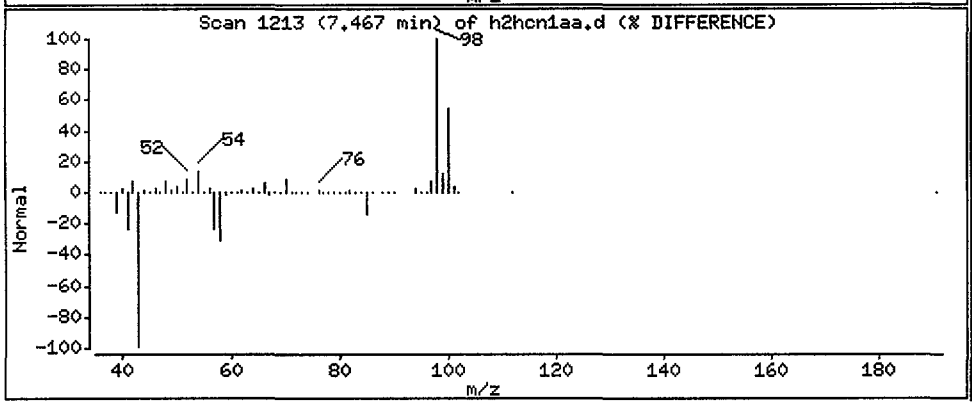
53 4-Methyl-2-pentanone

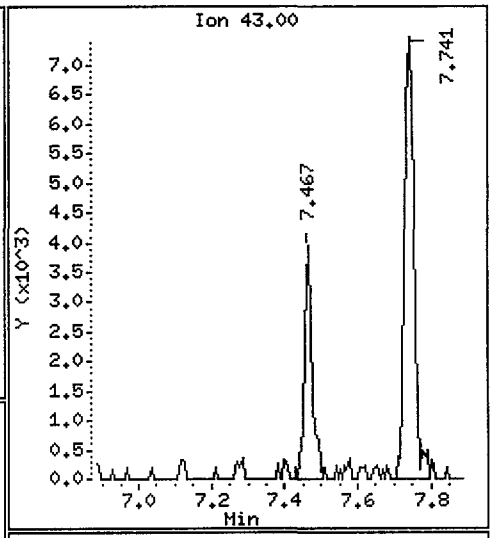
Concentration: 0.022256 ug

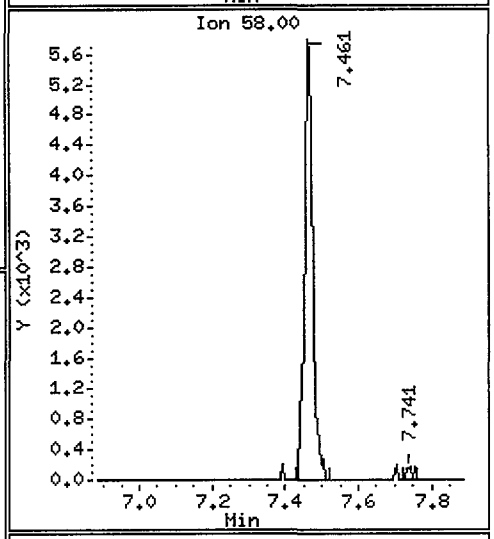


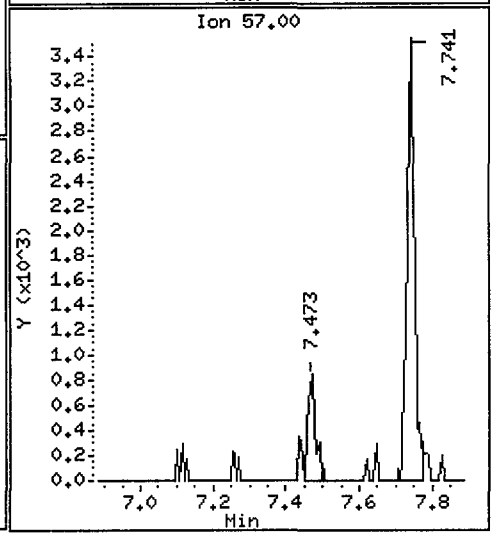












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

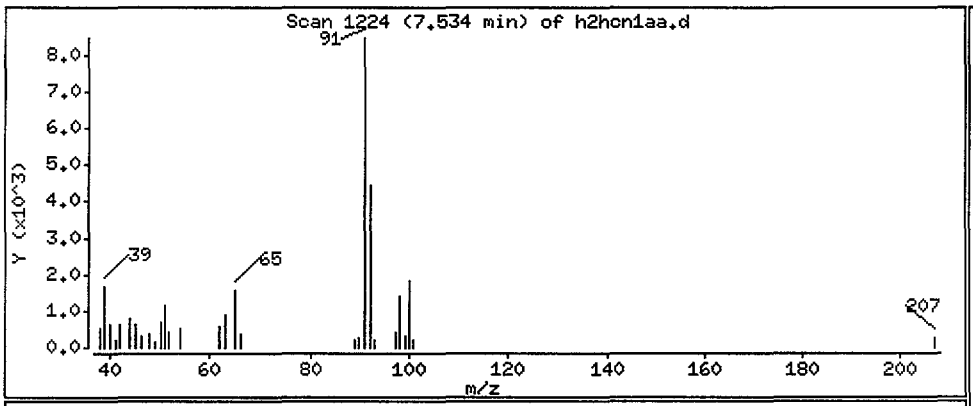
Operator: 22980

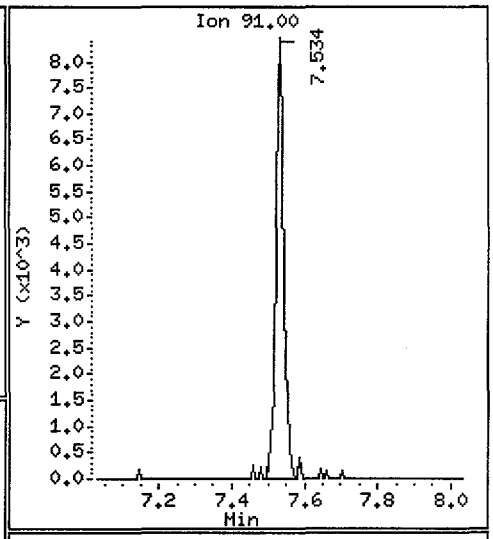
Column phase: J+W 624

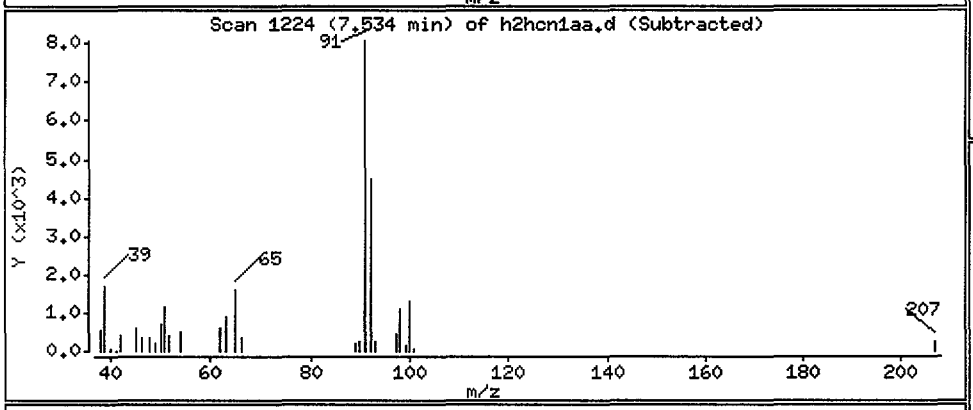
Column diameter: 0.18

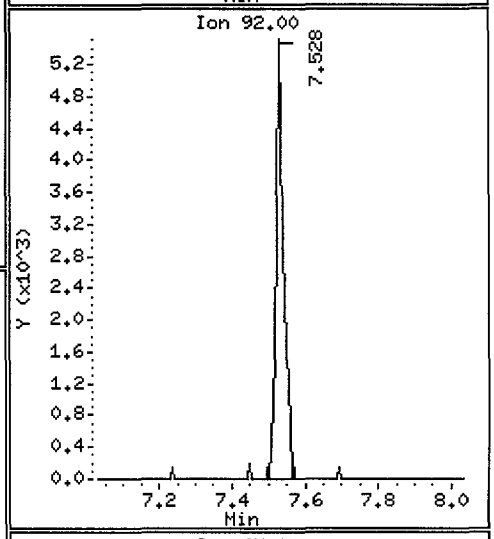
54 Toluene (ccc)

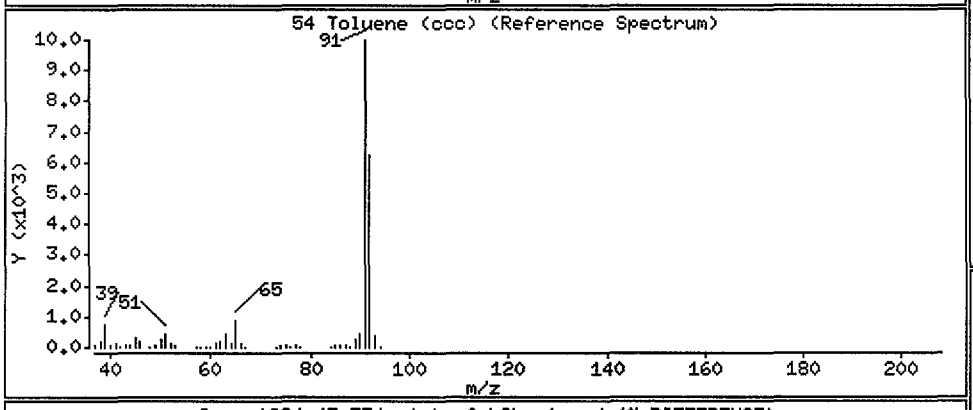
Concentration: 0.0032940 ug

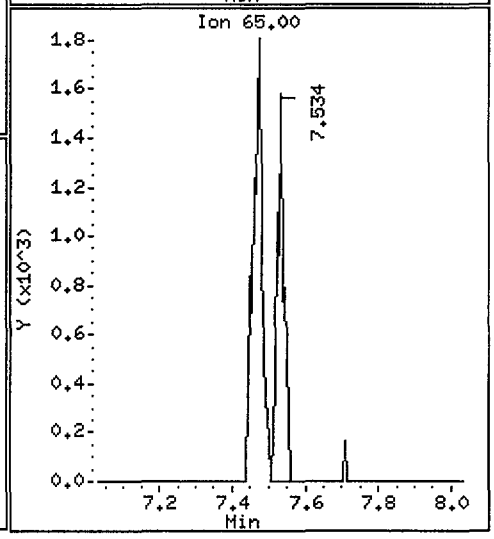


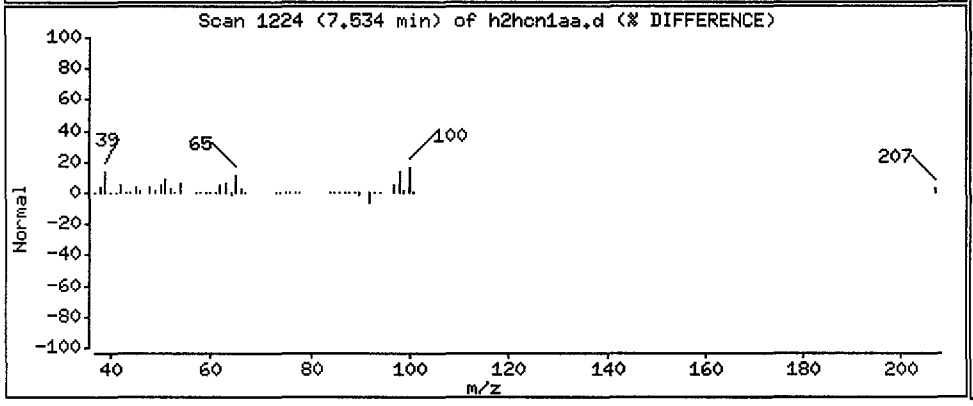












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

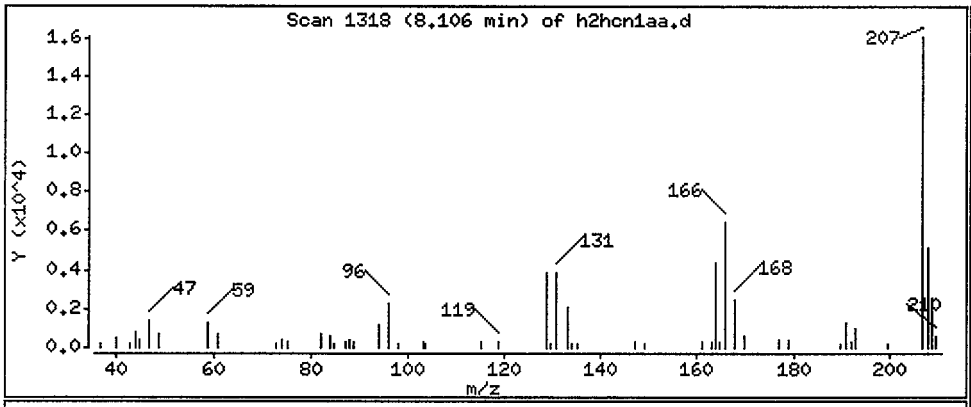
Operator: 22980

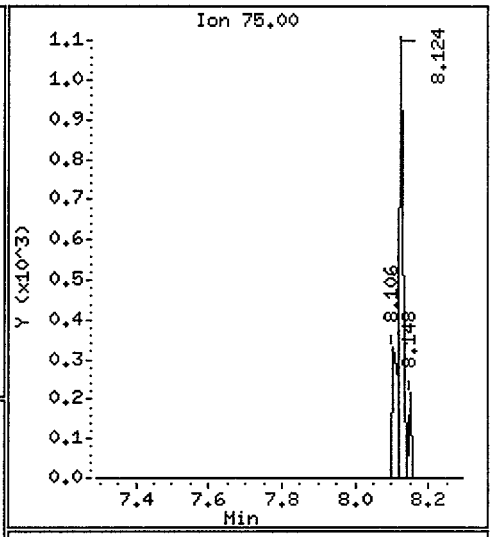
Column phase: J+W 624

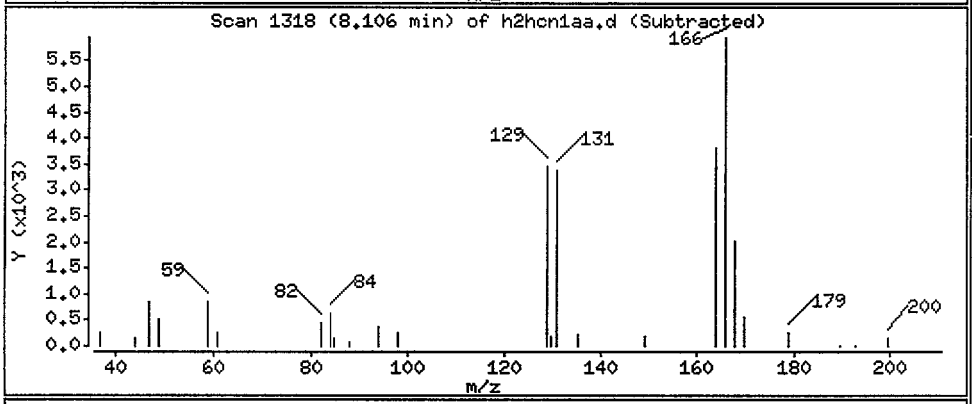
Column diameter: 0.18

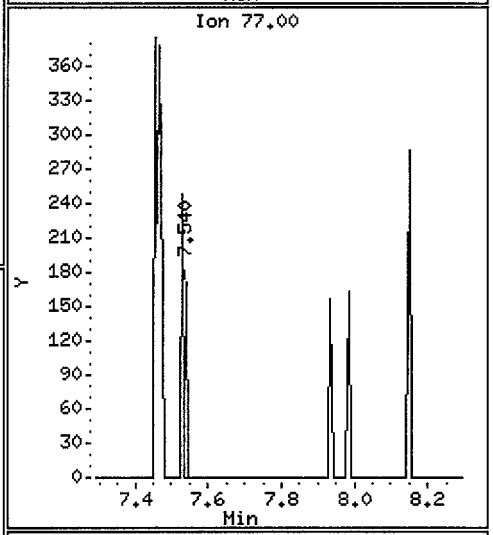
55 trans-1,3-Dichloropropene

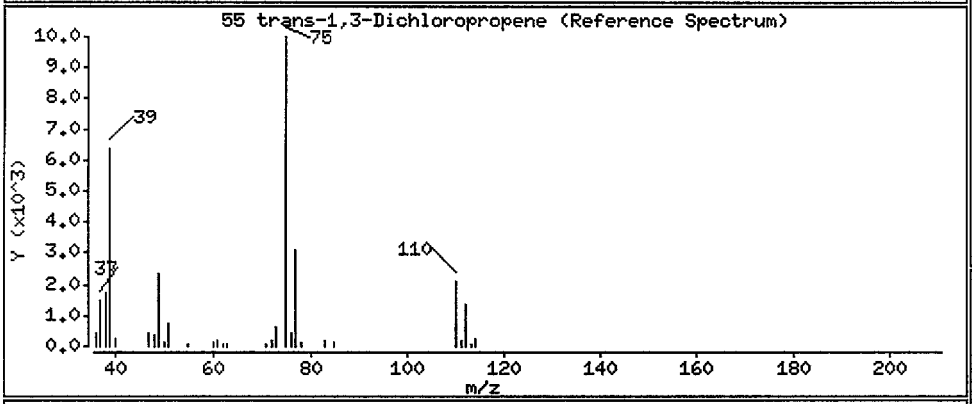
Concentration: 0.016127 ug

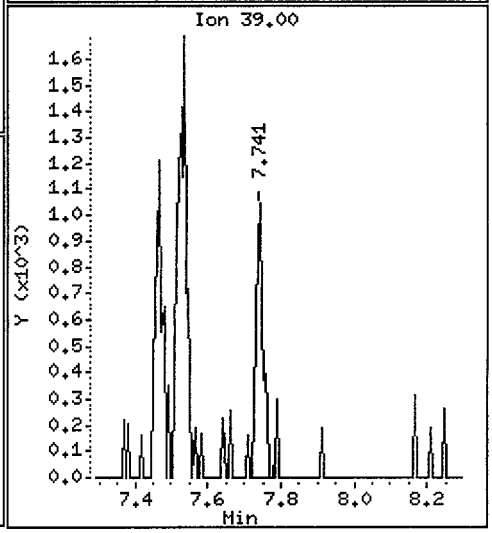


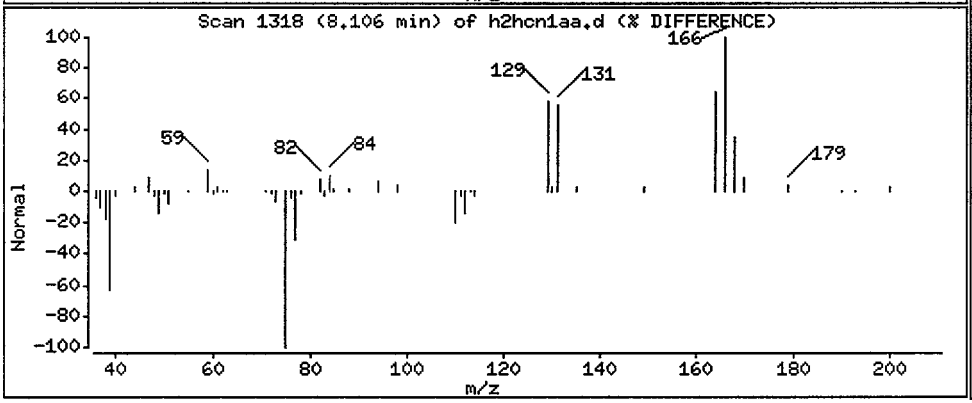












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

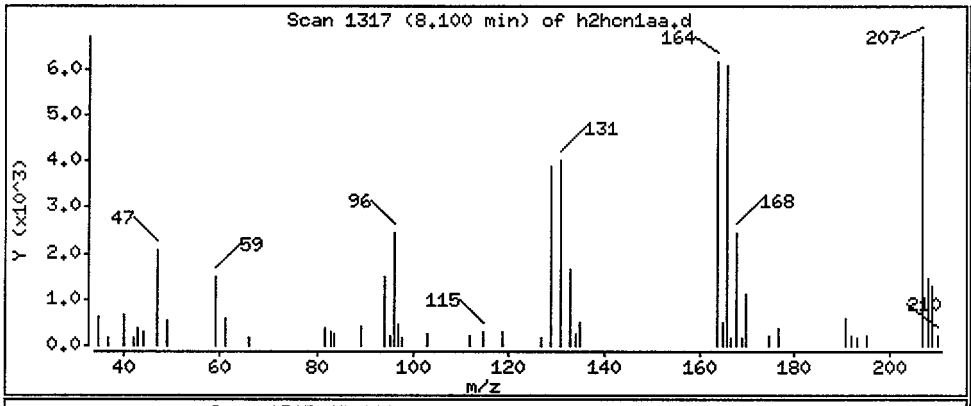
Operator: 22980

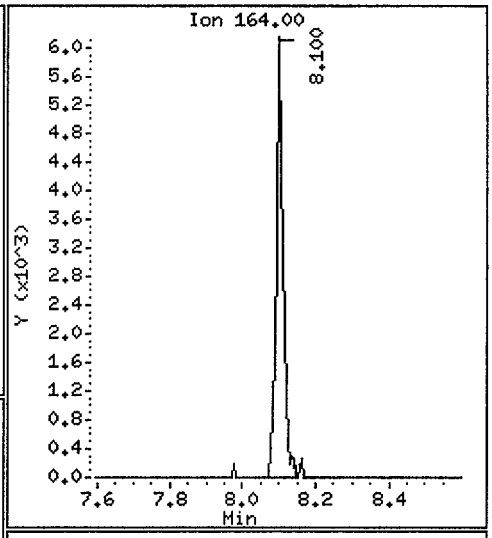
Column phase: J+W 624

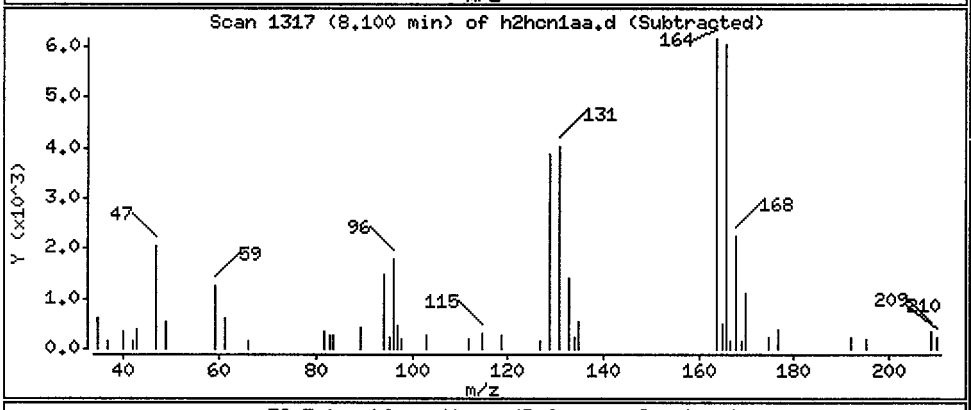
Column diameter: 0.18

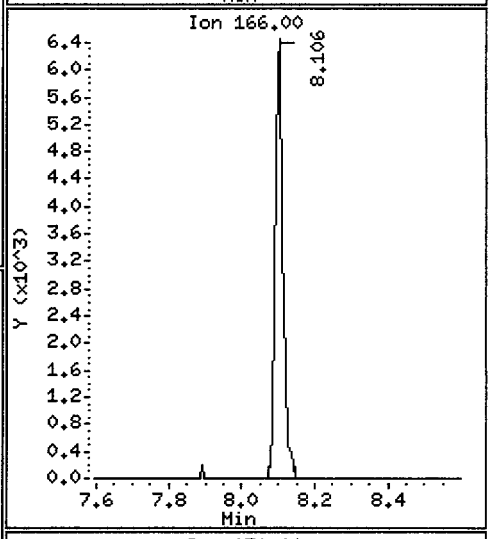
58 Tetrachloroethene

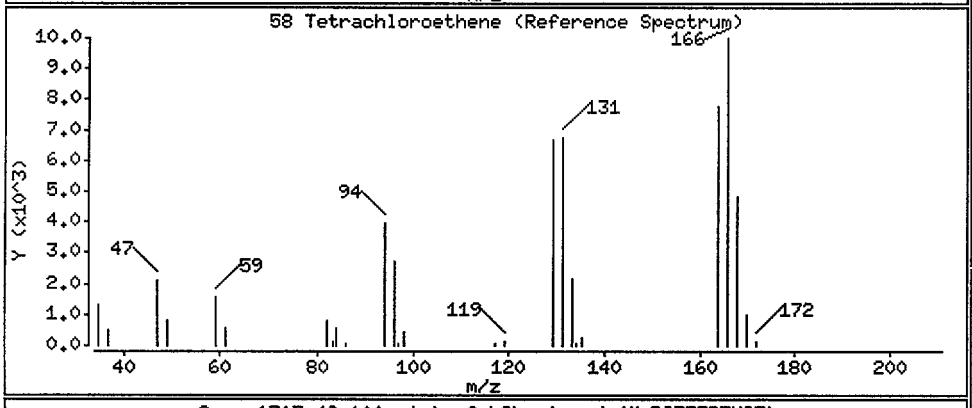
Concentration: 0.0097195 ug

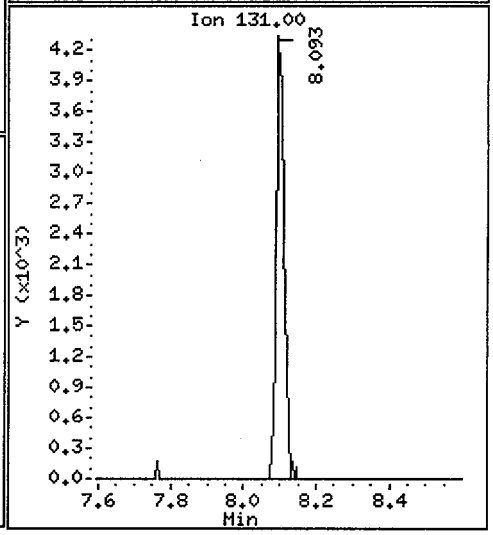


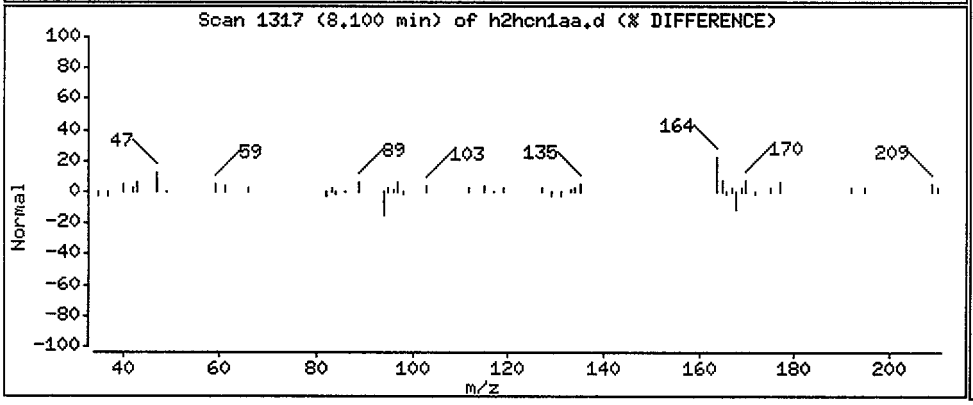












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

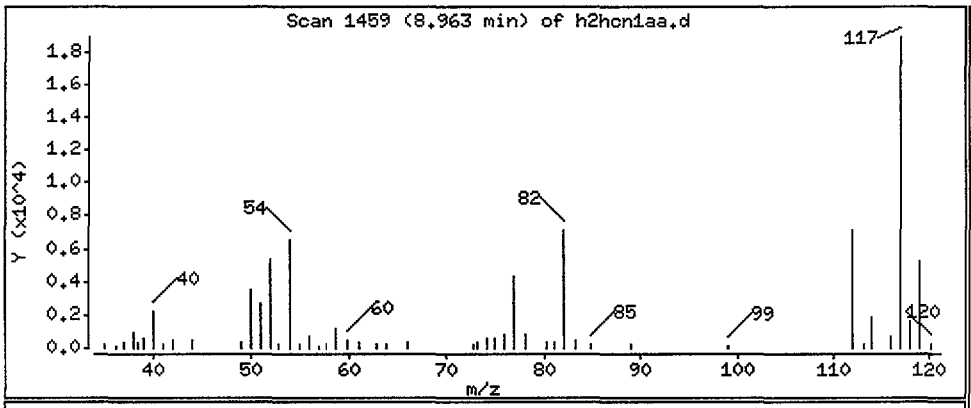
Operator: 22980

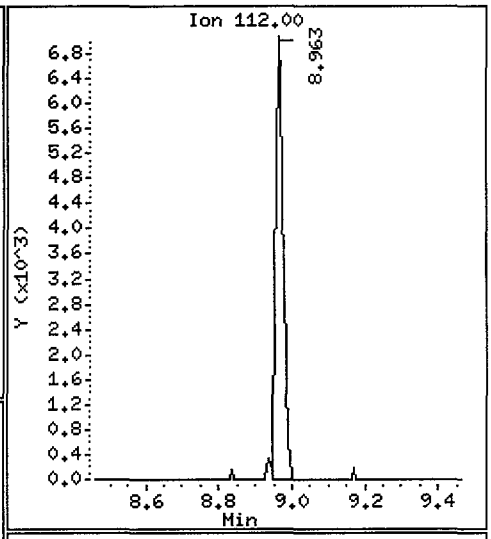
Column phase: J+W 624

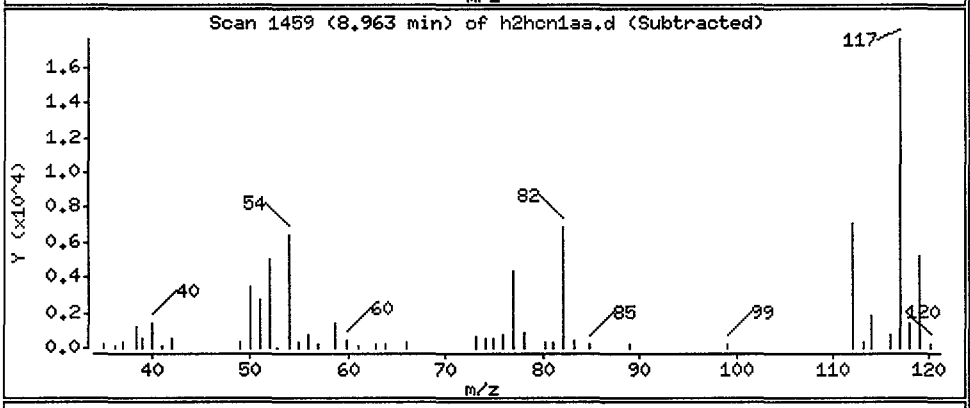
Column diameter: 0.18

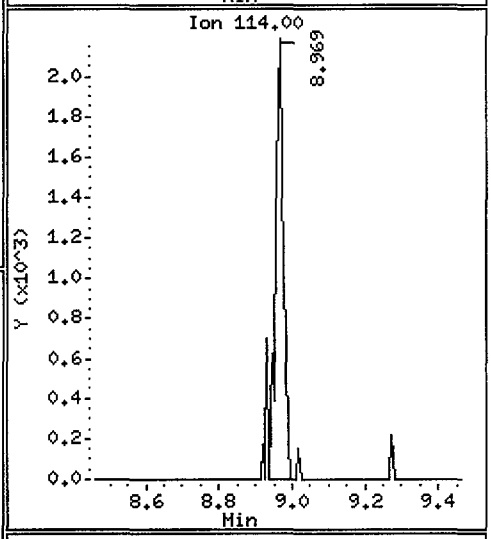
63 Chlorobenzene (spcc)

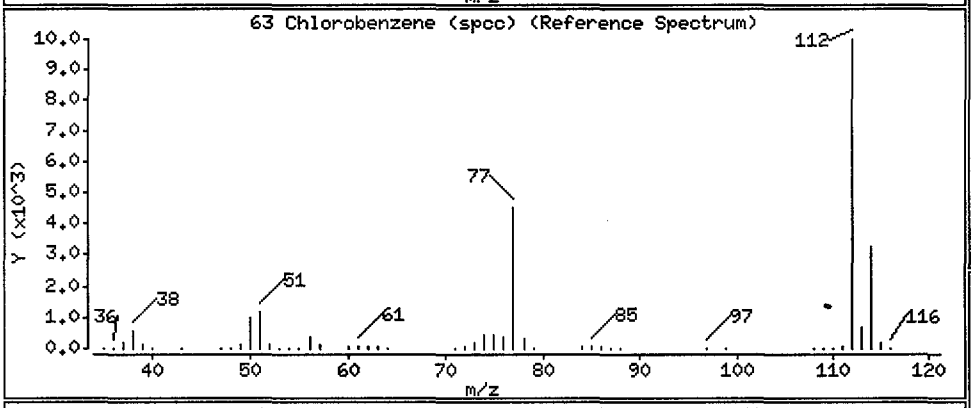
Concentration: 0.0047845 ug

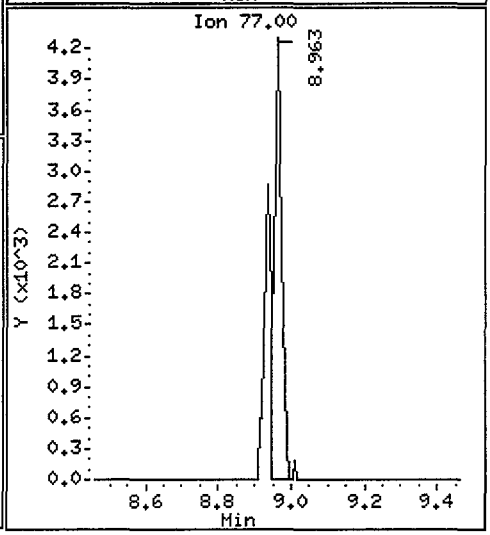


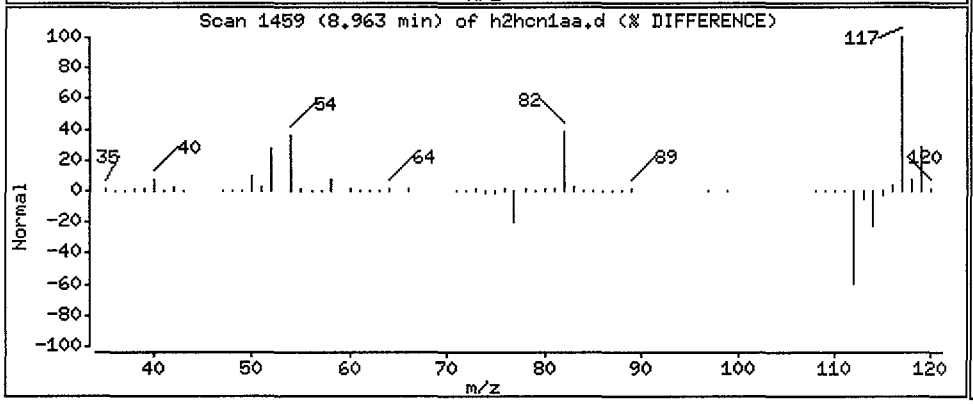












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

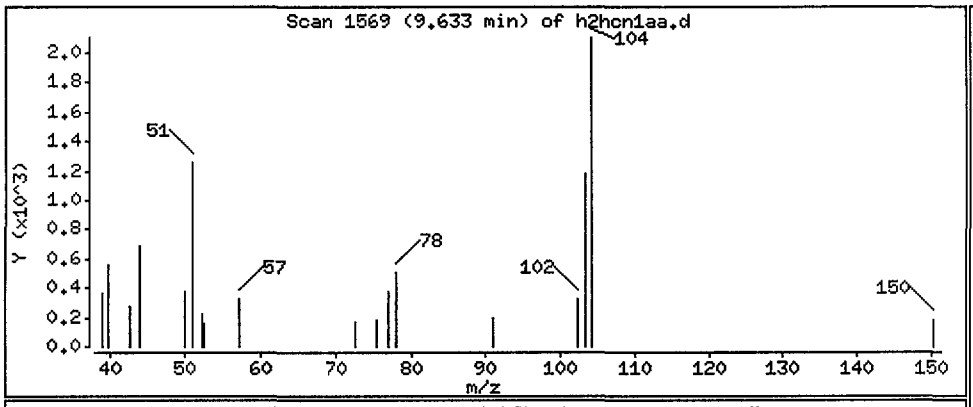
Operator: 22980

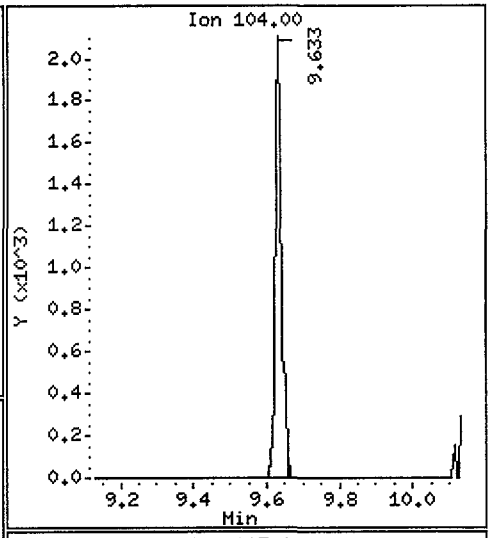
Column phase: J+W 624

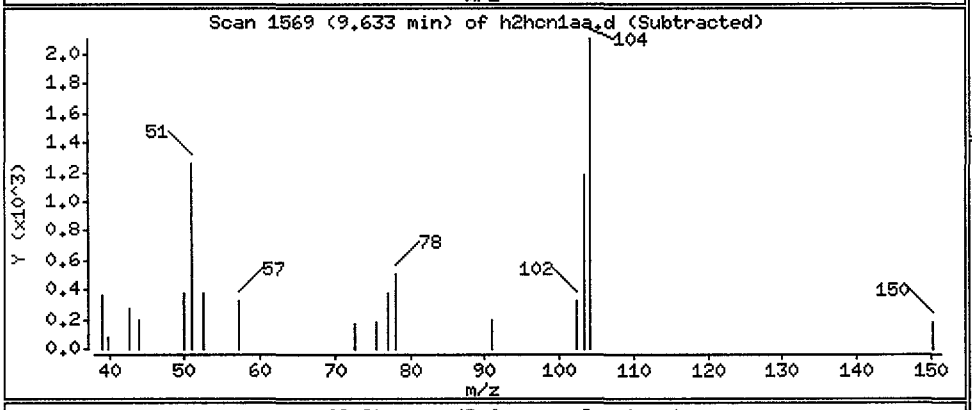
Column diameter: 0.18

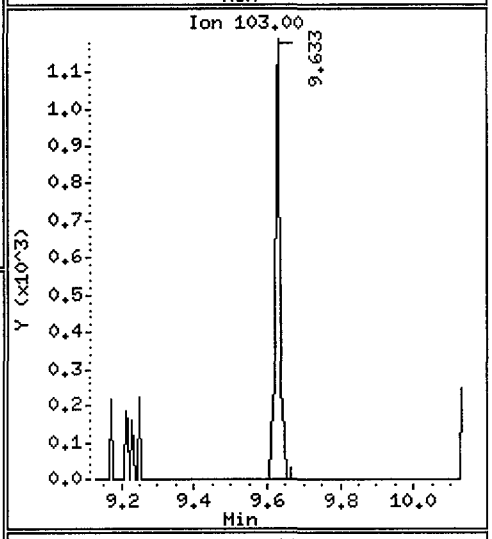
68 Styrene

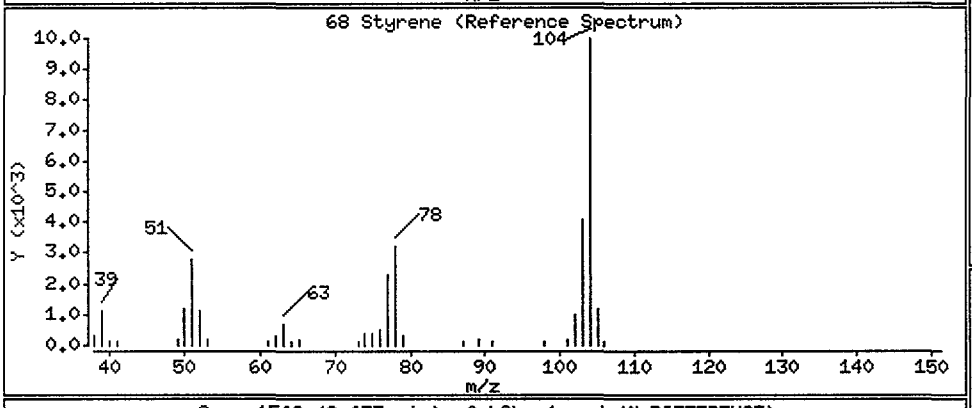
Concentration: 0.0012138 ug

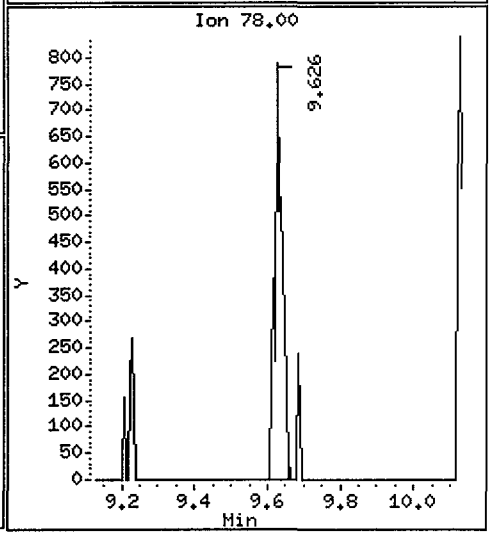


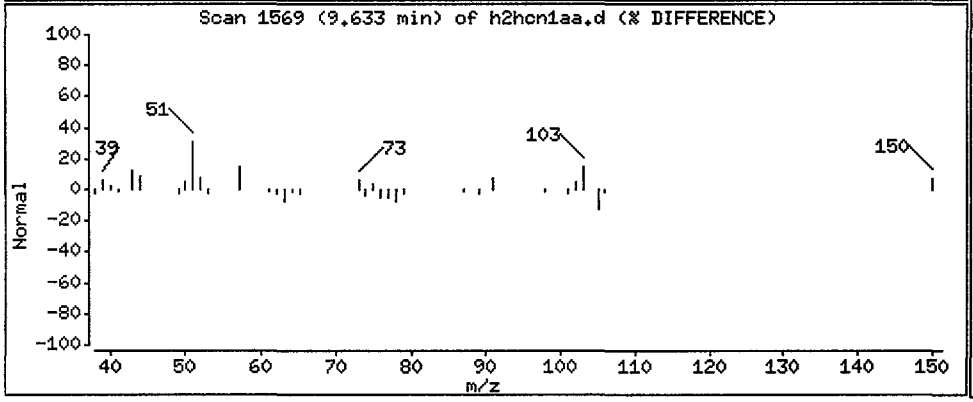












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

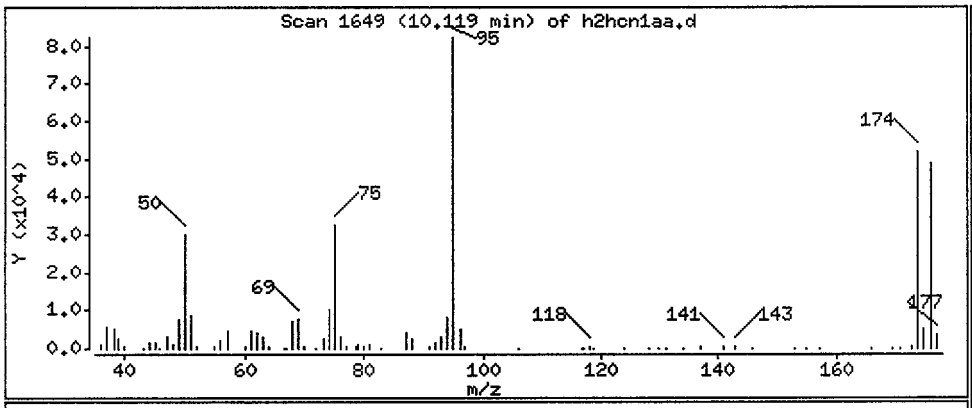
Operator: 22980

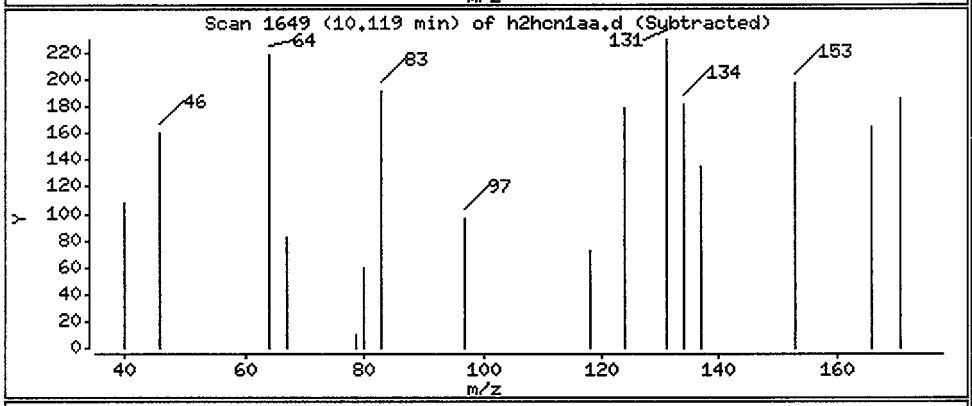
Column phase: J+W 624

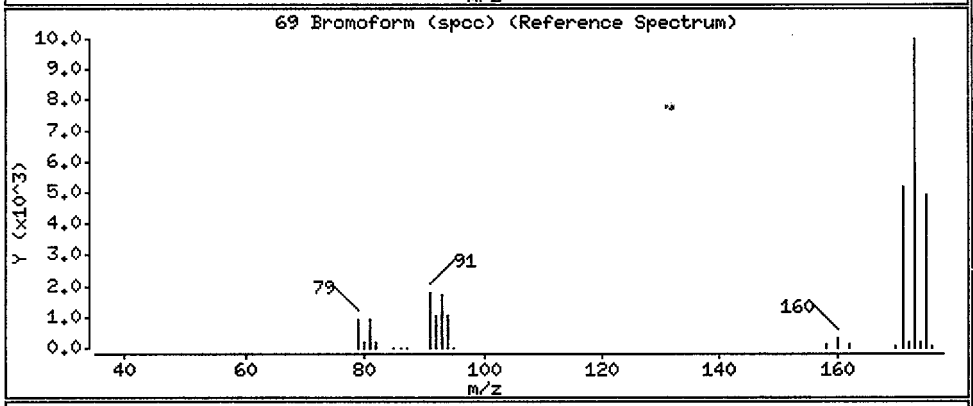
Column diameter: 0.18

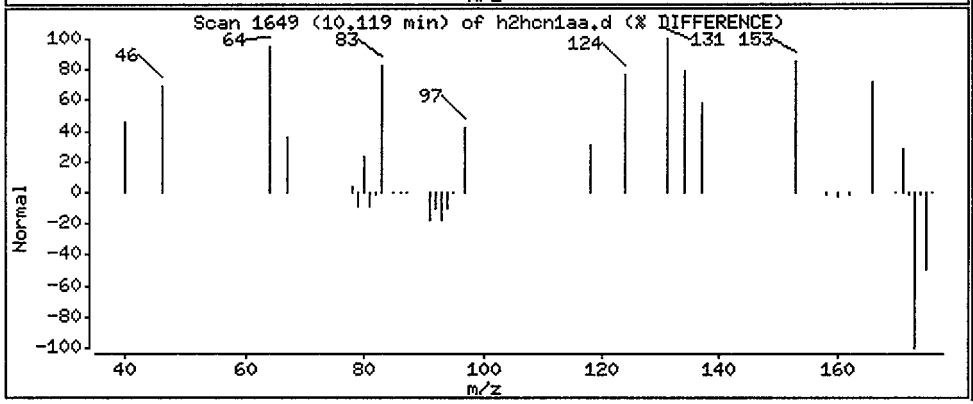
69 Bromoform (spcc)

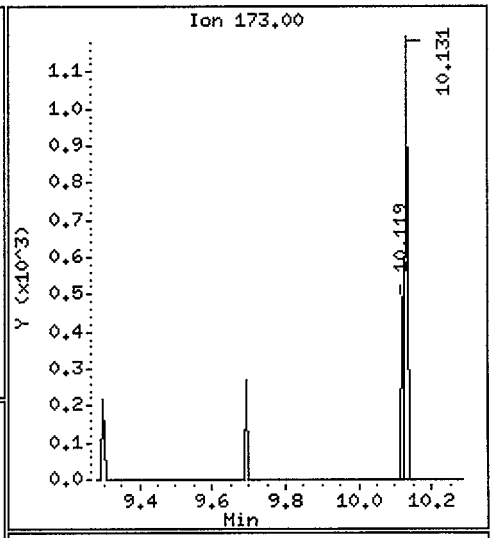
Concentration: 0.021644 ug

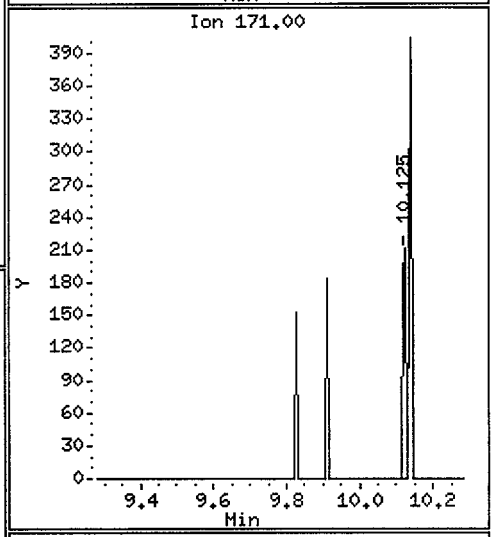


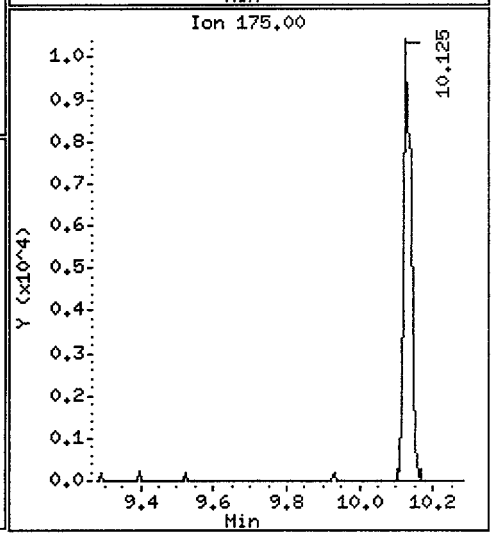












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

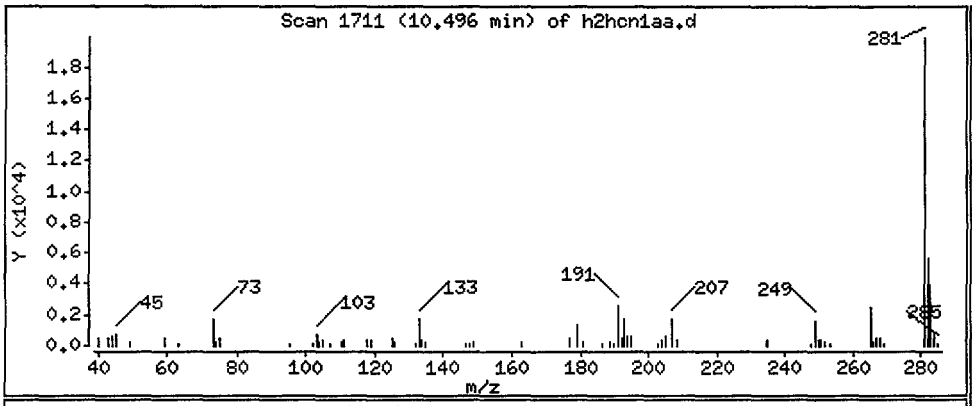
Operator: 22980

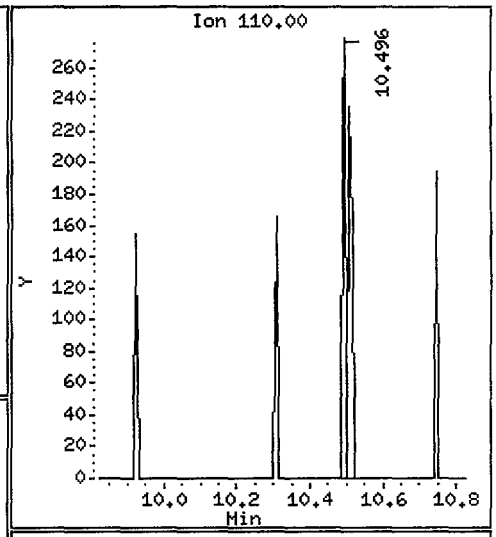
Column phase: J+W 624

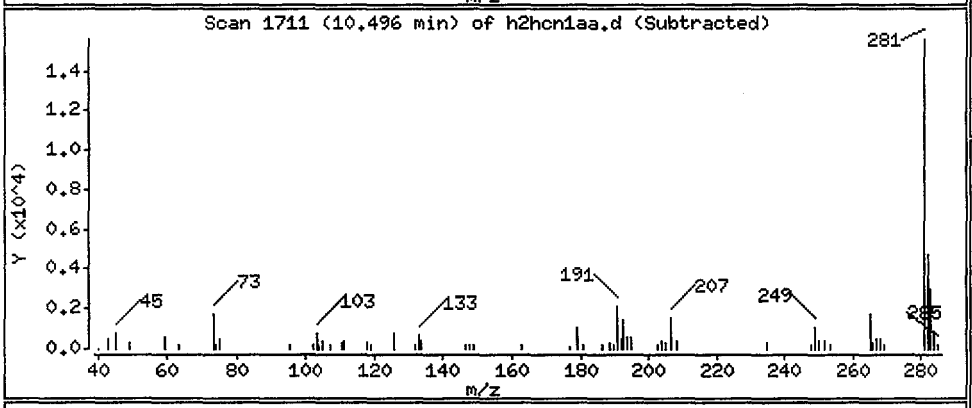
Column diameter: 0.18

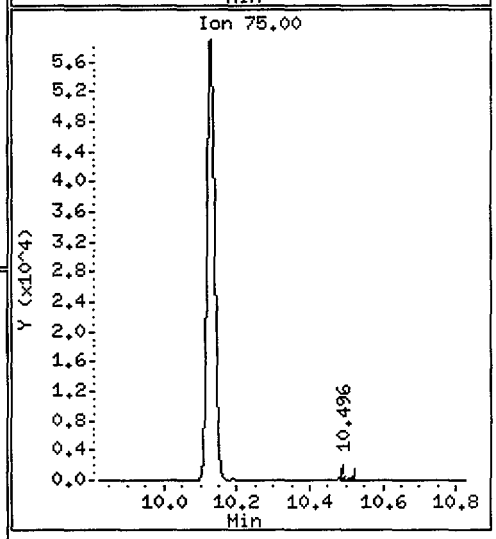
74 1,2,3-Trichloropropane

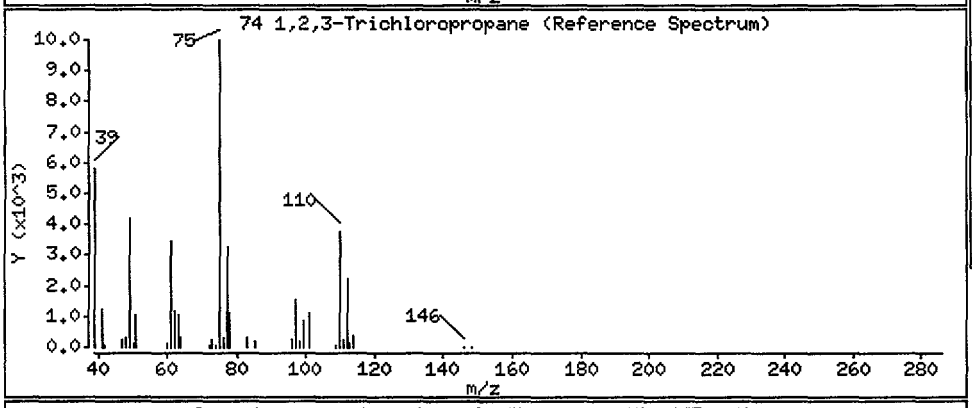
Concentration: 0.0040623 ug

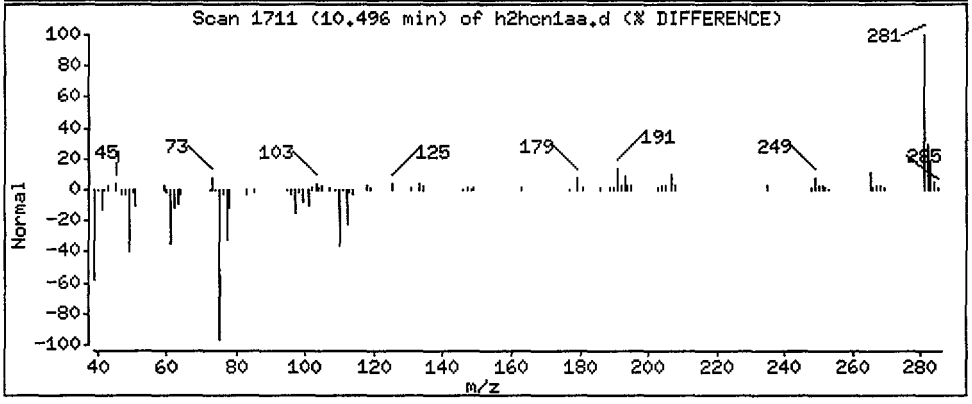












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

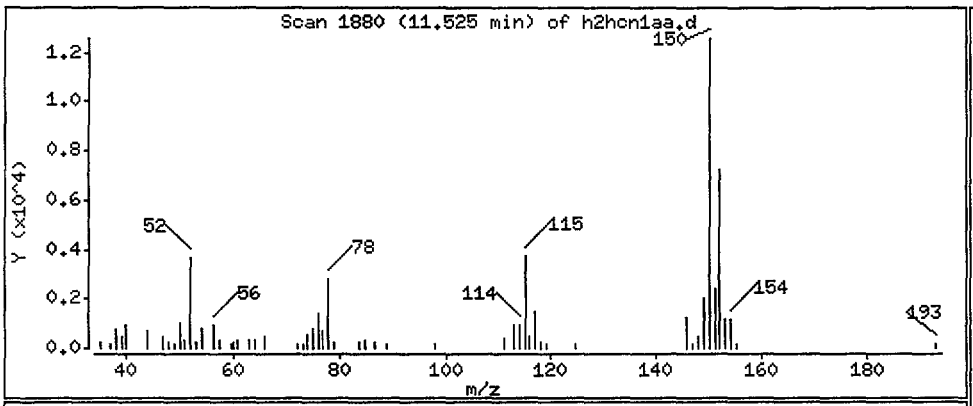
Operator: 22980

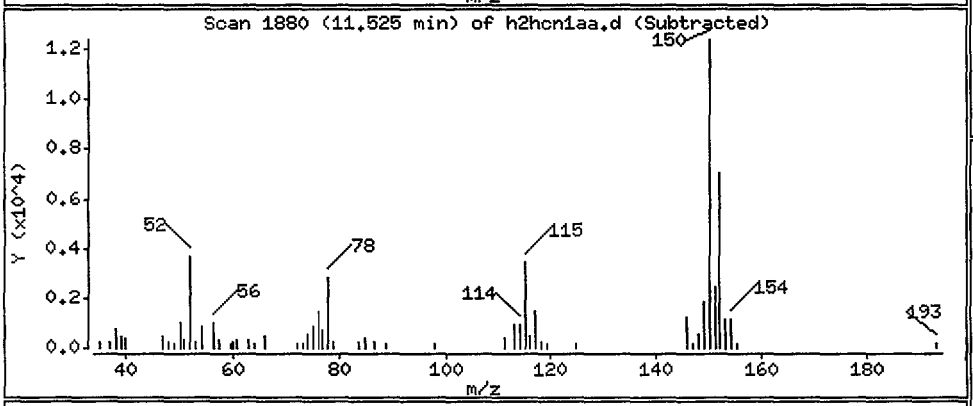
Column phase: J+W 624

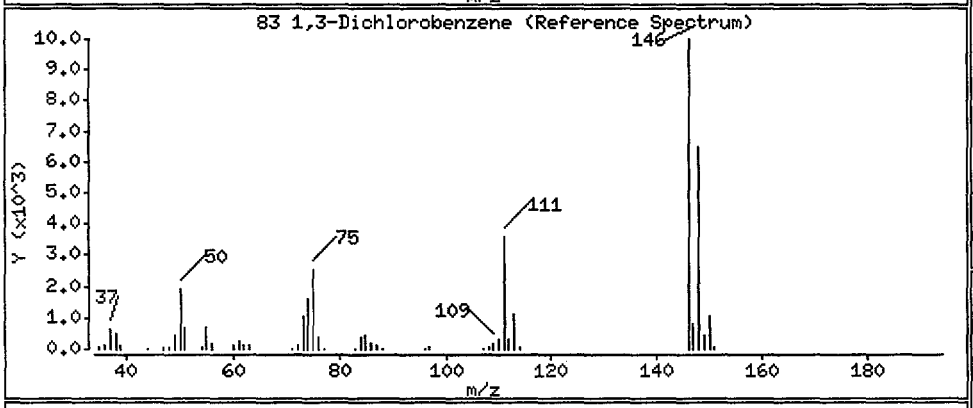
Column diameter: 0.18

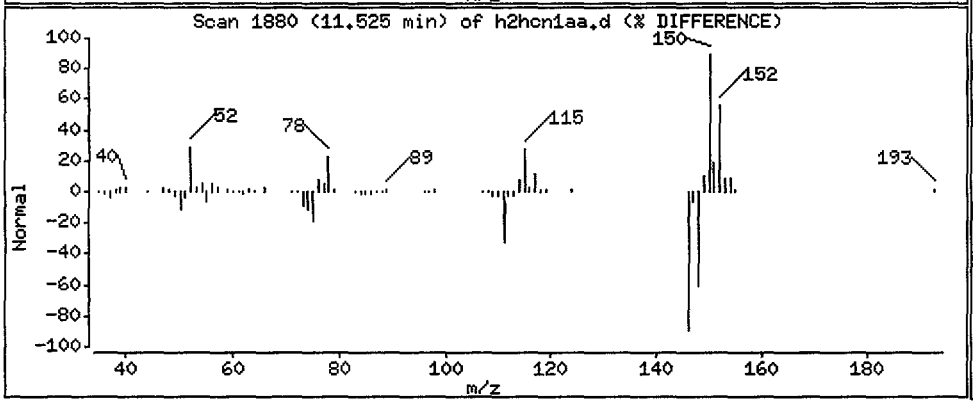
83 1,3-Dichlorobenzene

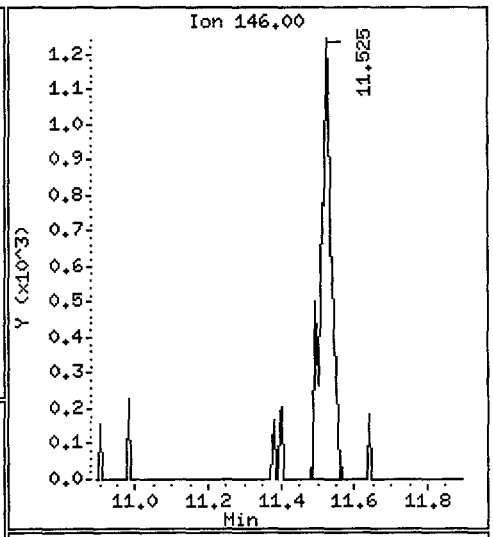
Concentration: 0.0015025 ug

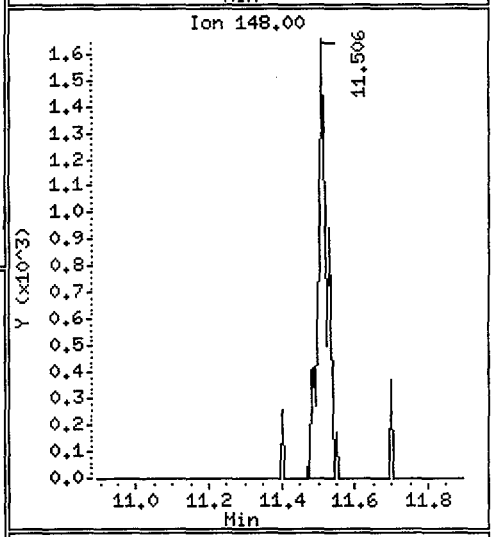


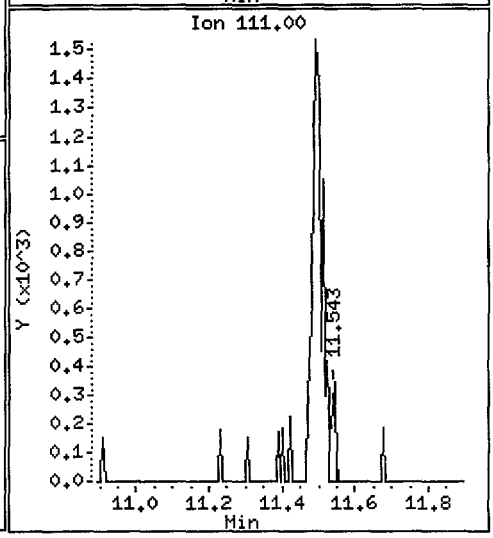












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

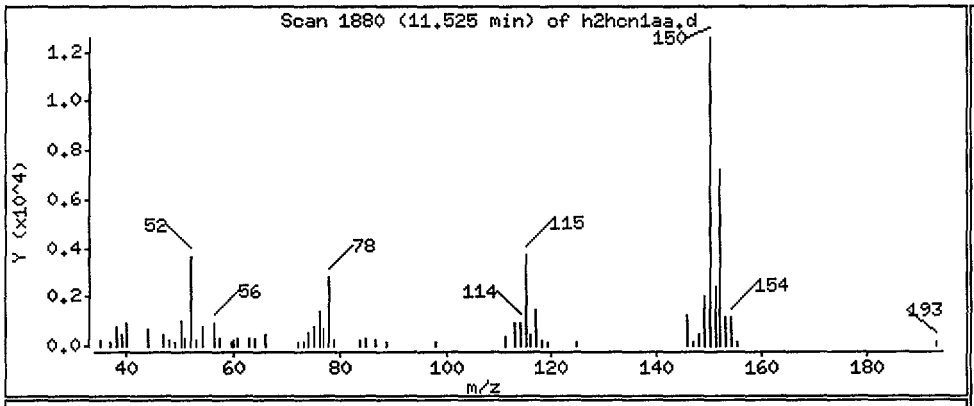
Operator: 22980

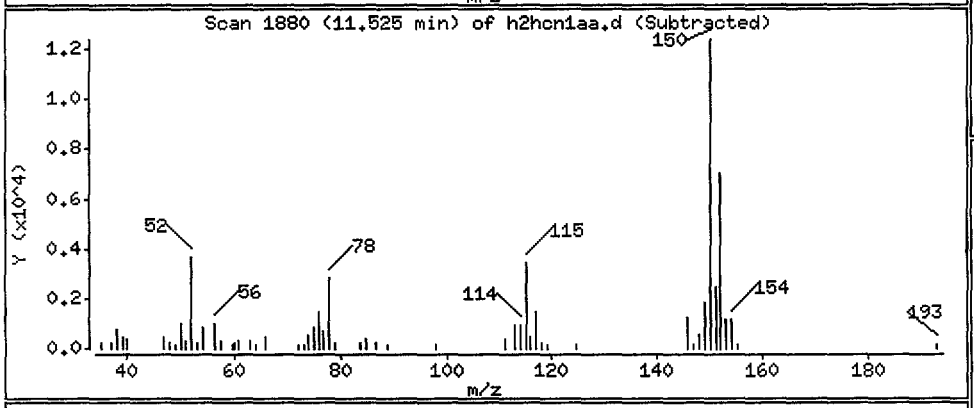
Column phase: J+W 624

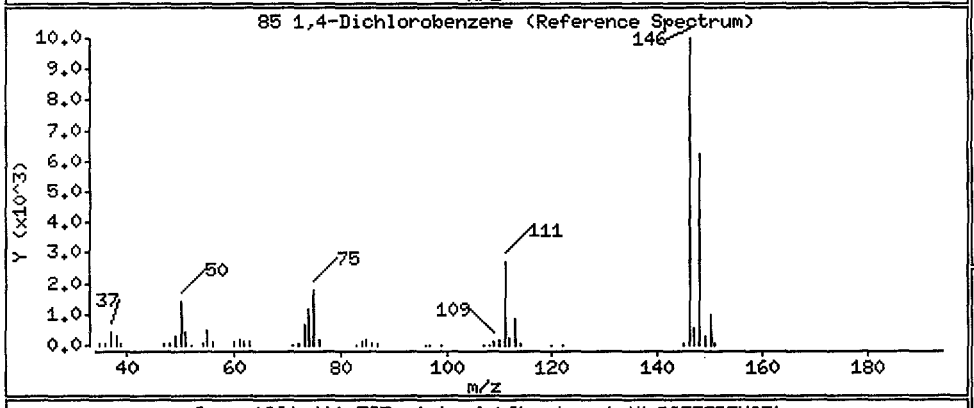
Column diameter: 0.18

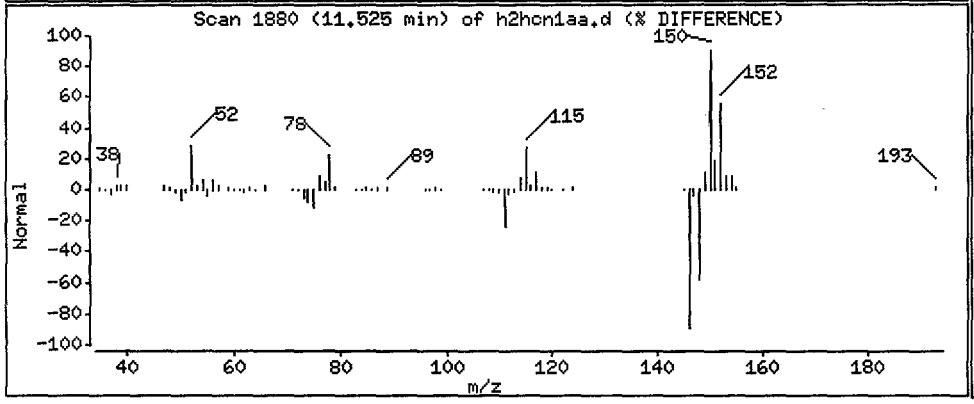
85 1,4-Dichlorobenzene

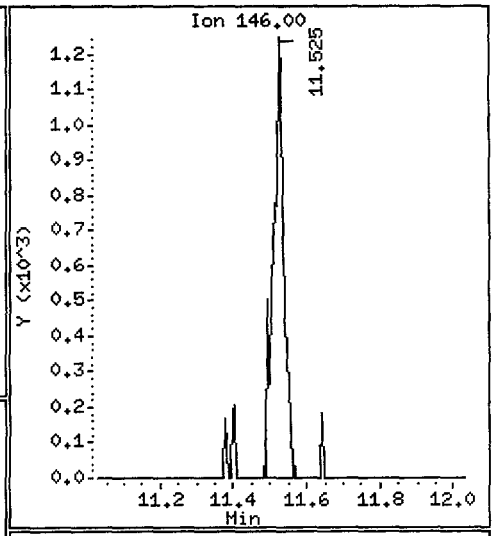
Concentration: 0.0016152 ug

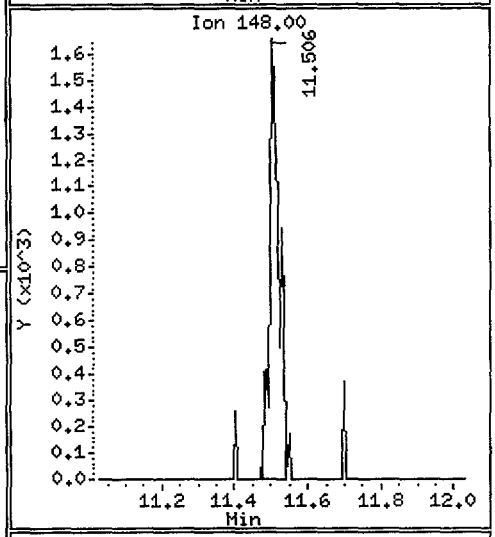


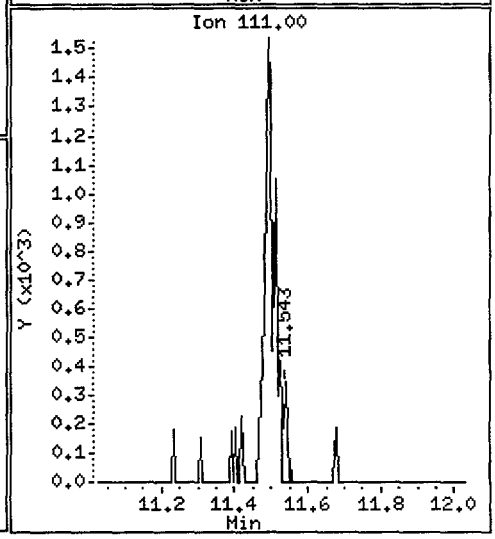












Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcn1aa.d
Report Date: 14-Apr-2006 17:02

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2hcn1aa.d
Lab Smp Id: H2HCN1AA Client Smp ID: G-3094-R3-VOST PAIR
Inj Date : 07-APR-2006 15:10
Operator : 22980 Inst ID: mz.i
Smp Info : H2HCN1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment   : Volatile Organics by GC/MS
Method   : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

STL Knoxville - ACS

Client Sample ID: G-3095-R3-VOST PAIR #4 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-029 **Work Order #...:** H2HCP1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.37**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.0069 J**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	**0.040**	**0.010**	**ug**	**0.0016**
Bromoform	**0.13**	**0.025**	**ug**	**0.0066**
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.016**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.0037 J**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**1.4**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	**0.10**	**0.025**	**ug**	**0.010**
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.025**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3095-R3-VOST PAIR #4 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-029 **Work Order #...:** H2HCP1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.26**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	**0.069**	**0.025**	**ug**	**0.010**
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.36**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.19**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	**0.0049 J**	**0.020**	**ug**	**0.0034**
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	**0.0049 J**	**0.030**	**ug**	**0.0048**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	72	(50 - 134)
1,2-Dichloroethane-d4	71	(50 - 134)
Toluene-d8	64	(57 - 127)
Bromofluorobenzene	49 *	(50 - 125)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3095-R3-VOST PAIR #4 TENAX

GC/MS Volatiles

Lot-Sample #: H6D030169-029 **Work Order #:** H2HCP1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Benzaldehyde	100-52-7	0.041 NJ M	10.088	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d
Report Date: 07-Apr-2006 15:55

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /chem/gcms/mx.i/X040706.b/h2hcp1aa.d
Lab Smp Id: H2HCP1AA Client Smp ID: G-3095-R3-VOST PAIR
Inj Date : 07-APR-2006 15:38
Operator : 22980 Inst ID: mx.i
Smp Info : H2HCP1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 11:23 gosss Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1	Fluorobenzene	96	4.851	4.851	(1.000)	1132943	10.0000	
* 2	Chlorobenzene-d5	119	7.583	7.582	(1.000)	233221	10.0000	
* 3	1,4 Dichlorobenzene-d4	152	10.746	10.746	(1.000)	244725	10.0000	
$ 4	Dibromofluoromethane	113	4.273	4.273	(0.881)	138928	7.21244	0.18031
$ 5	1,2-Dichloroethane-d4	65	4.553	4.553	(0.939)	107249	7.14295	0.17857
$ 6	Toluene-d8	98	6.250	6.250	(0.824)	732515	6.41514	0.16038
$ 7	4-Bromofluorobenzene	95	8.872	8.872	(0.826)	143189	4.93482	0.12337(R)
M 9	Xylene (total)	106				22221	0.42585	0.010646
21	Acetone	43	2.375	2.381	(0.490)	23878	14.8807	0.37202
23	Carbon Disulfide	76	2.497	2.497	(0.515)	54659	0.63305	0.015826
26	Methylene Chloride	84	2.746	2.746	(0.566)	180493	10.3044	0.25761
33	*Vinyl Acetate	86	3.251	3.421	(0.670)	1145	0.88902	~~0.022226~~
34	2,2-Dichloropropane	77	3.859	3.853	(0.796)	2181	0.04387	~~0.0010967~~
36	2-Butanone	43	3.872	3.871	(0.798)	9169	3.66351	~~0.091588~~
38	*THF	42	4.109	4.109	(0.847)	1201	0.78364	0.019591
39	Chloroform (ccc)	83	4.139	4.139	(0.853)	43867	1.01874	0.025468
41	Carbon Tetrachloride	117	4.437	4.437	(0.915)	5945	0.14619	0.0036547
42	1,1-Dichloropropene	75	4.851	4.437	(1.000)	86126	1.92007	~~0.048002~~
43	Benzene	78	4.608	4.607	(0.950)	31466	0.27424	0.0068560
44	1,2-Dichloroethane	62	4.851	4.620	(1.000)	20164	1.04436	~~0.026109~~

4/19/06

Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d
Report Date: 07-Apr-2006 15:55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
45 Trichloroethene	130	5.173	5.173	(1.066)	5736	0.18631	0.0046578
49 Bromodichloromethane	83	5.605	5.605	(1.155)	38860	1.61659	0.040415
51 cis-1,3-Dichloropropene	75	6.311	6.007	(1.301)	7554	0.26833	0.0067083
52 4-Methyl-2-pentanone	43	6.250	6.147	(1.288)	6120	1.02108	0.025527
53 Toluene (ccc)	91	6.311	6.311	(0.832)	1033878	7.56801	0.18920
54 trans-1,3-Dichloropropene	75	6.311	6.506	(0.832)	7554	0.31550	0.0078874
56 1,1,2-Trichloroethane	97	6.816	6.670	(0.899)	3748	0.34740	0.0086850
57 Tetrachloroethene	164	6.816	6.816	(0.899)	425839	14.5076	0.36269
59 2-Hexanone	43	6.719	6.907	(0.886)	3518	0.77076	0.019269
60 Chlorodibromomethane	129	7.035	7.035	(0.928)	55141	4.12419	0.10310
62 Chlorobenzene (spcc)	112	7.613	7.607	(1.004)	3953064	56.3694	1.4092
64 Ethylbenzene (ccc)	106	7.832	7.716	(1.033)	11110	0.23036	0.0057591
65 m&p-Xylene	106	7.832	7.838	(1.033)	11110	0.19656	0.0049141
66 o-Xylene	106	7.832	8.251	(1.033)	11110	0.22929	0.0057321
68 Bromoform (spcc)	173	8.459	8.464	(1.116)	33688	5.21337	0.13033
69 Isopropylbenzene	105	8.690	8.689	(1.146)	10424	0.06707	0.0016768
73 1,2,3-Trichloropropane	110	9.243	9.115	(0.860)	3389	1.48341	0.037085
80 1,2,4-Trimethylbenzene	105	10.095	10.125	(0.939)	51515	0.65245	0.016311
90 Napthalene	128	13.946	13.946	(1.298)	29101	2.74071	0.068518

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

4/19/06

Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d
Report Date: 07-Apr-2006 15:55

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: h2hcp1aa.d
Lab Smp Id: H2HCP1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 09:16
Client Smp ID: G-3095-R3-VOST PAIR
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1149191	574596	2298382	1132943	-1.41
2 Chlorobenzene-d5	214194	107097	428388	233221	8.88
3 1,4 Dichlorobenze	242601	121300	485202	244725	0.88

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	0.00
2 Chlorobenzene-d5	7.58	7.08	8.08	7.58	0.00
3 1,4 Dichlorobenze	10.75	10.25	11.25	10.75	0.00

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

Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d
Report Date: 07-Apr-2006 15:55

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030169
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: H2HCP1AA
Client Smp ID: G-3095-R3-VOST PAIR
Level: LOW
Operator: 22980
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allcmpds.spk
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

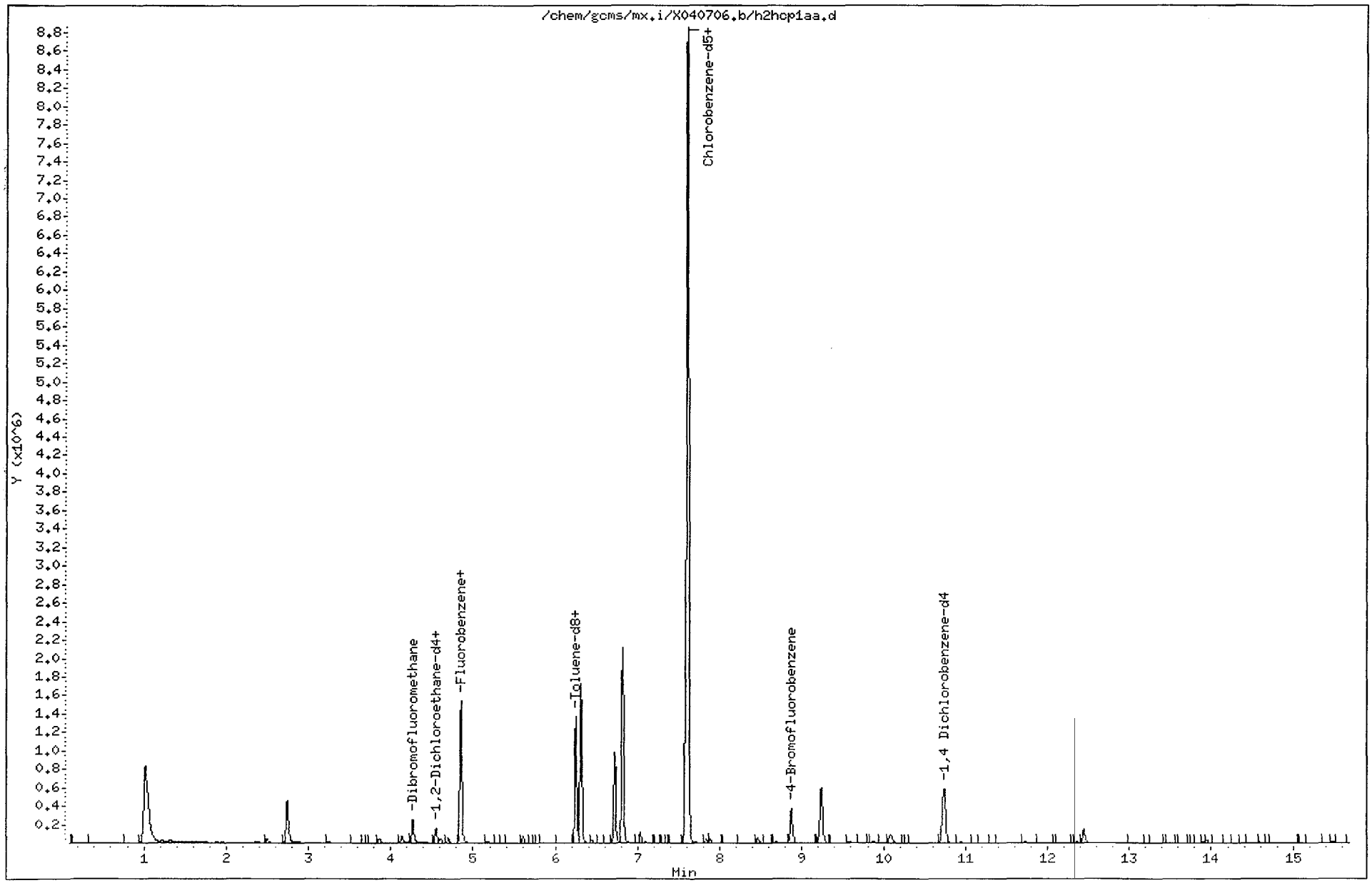
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.18031	72.12	50-150
$ 5 1,2-Dichloroethane	0.25000	0.17857	71.43	50-150
$ 6 Toluene-d8	0.25000	0.16038	64.15	50-150
$ 7 4-Bromofluorobenze	0.25000	0.12337	49.35*	50-150

Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d
Date : 07-APR-2006 15:38
Client ID: G-3095-R3-VOST PAIR
Sample Info: H2HCP1AA,1,0,,,

Instrument: mx.i

Operator: 22980
Column diameter: 0.18

Column phase: J+W 624



Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

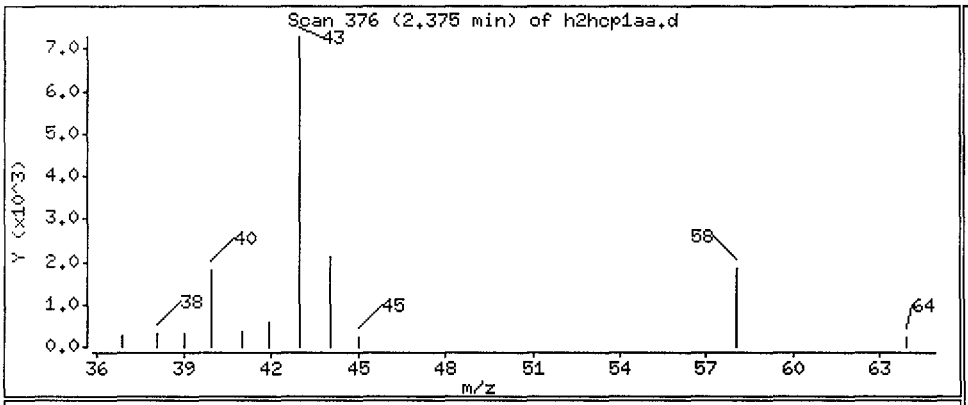
Operator: 22980

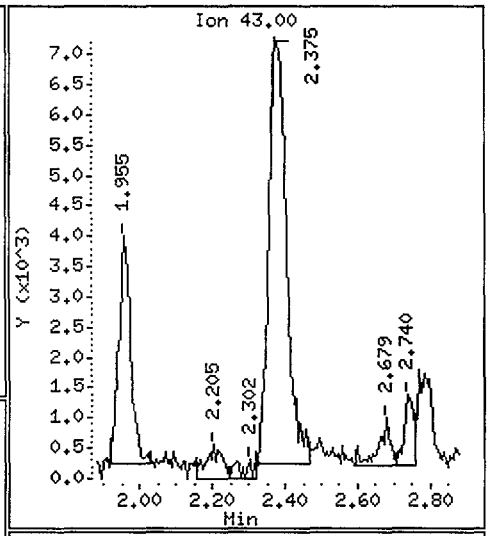
Column phase: J+W 624

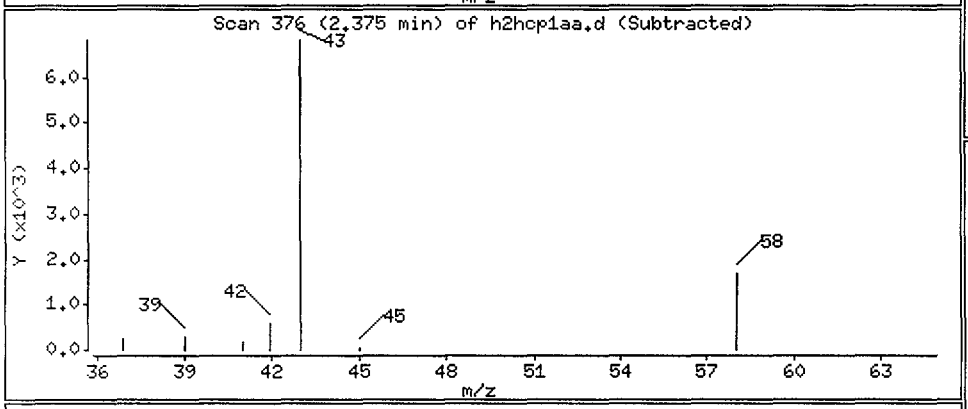
Column diameter: 0.18

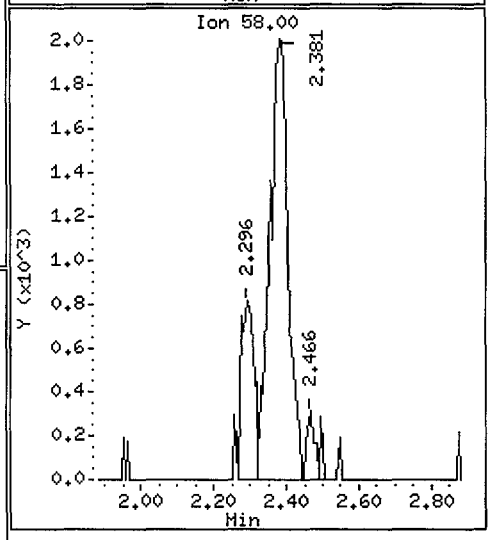
21 Acetone

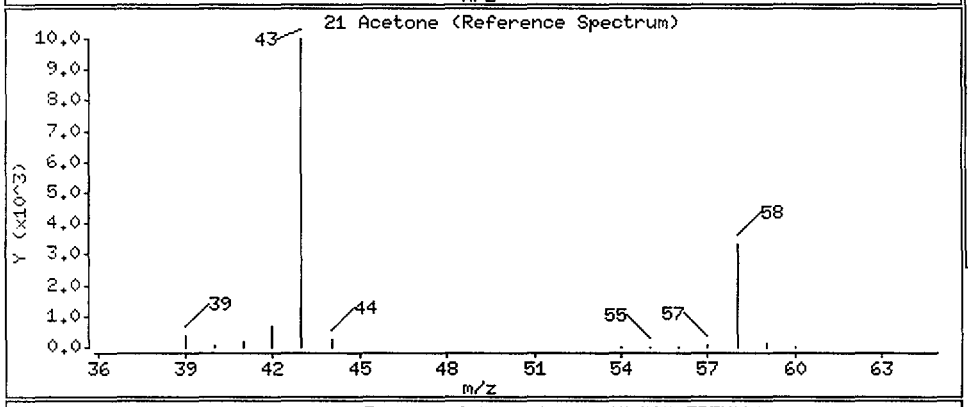
Concentration: 0.37202 ug

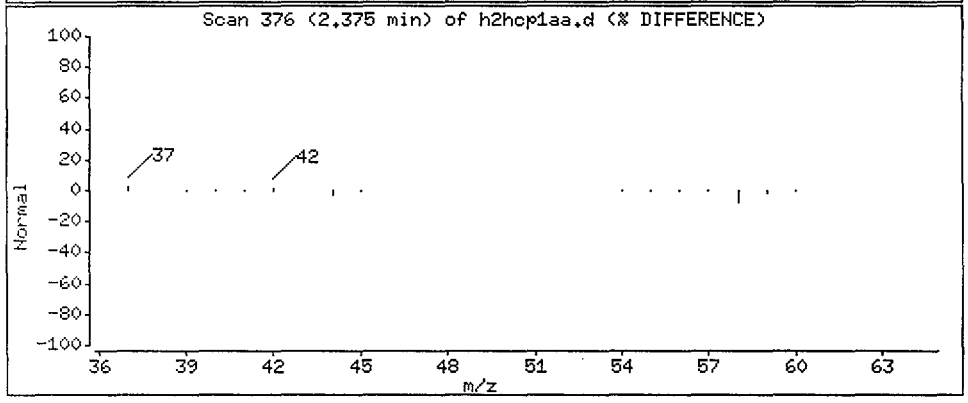












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

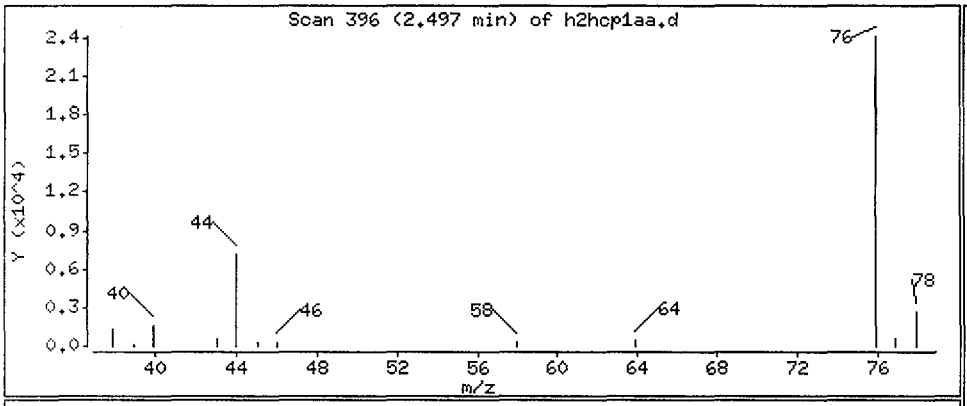
Operator: 22980

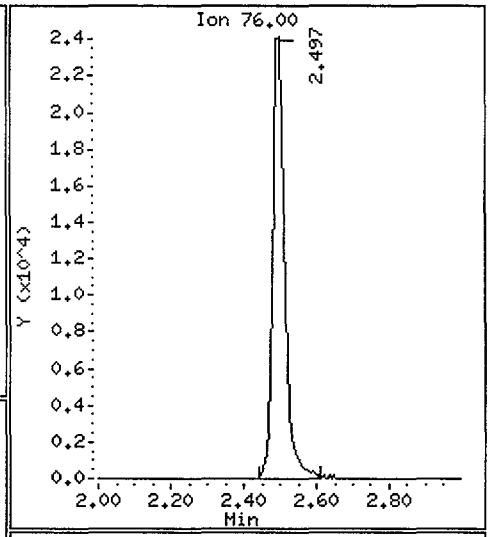
Column phase: J+W 624

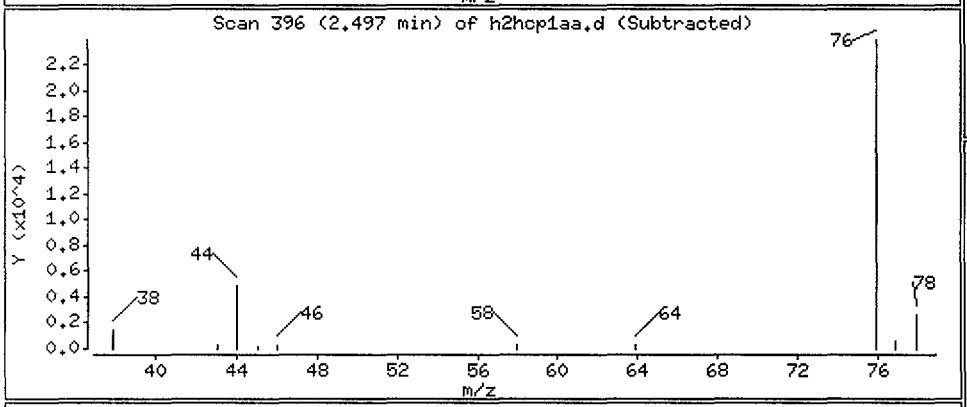
Column diameter: 0.18

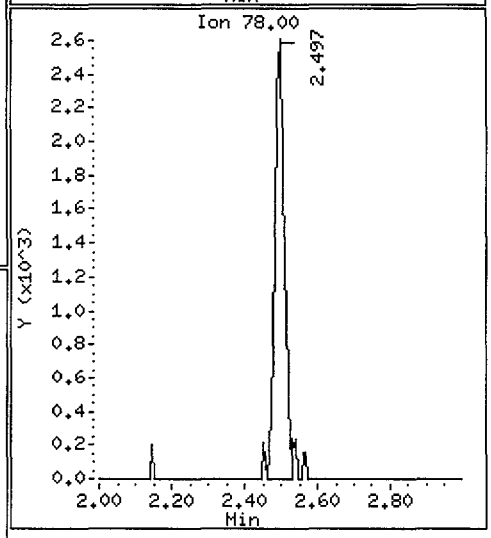
23 Carbon Disulfide

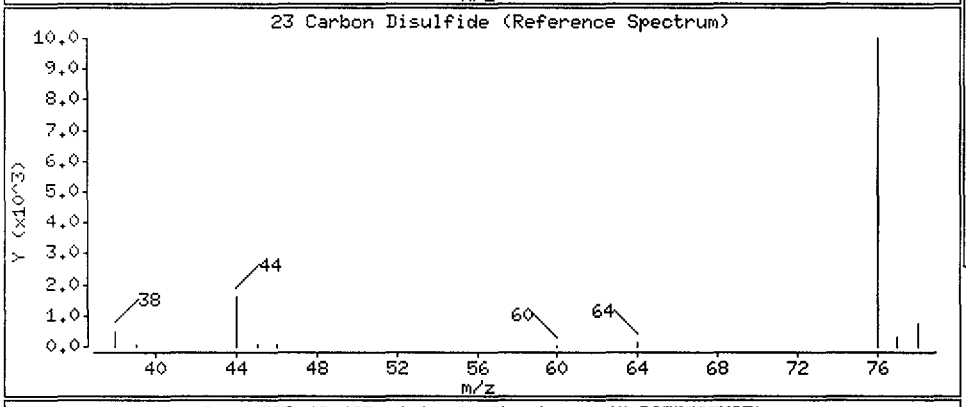
Concentration: 0.015826 ug

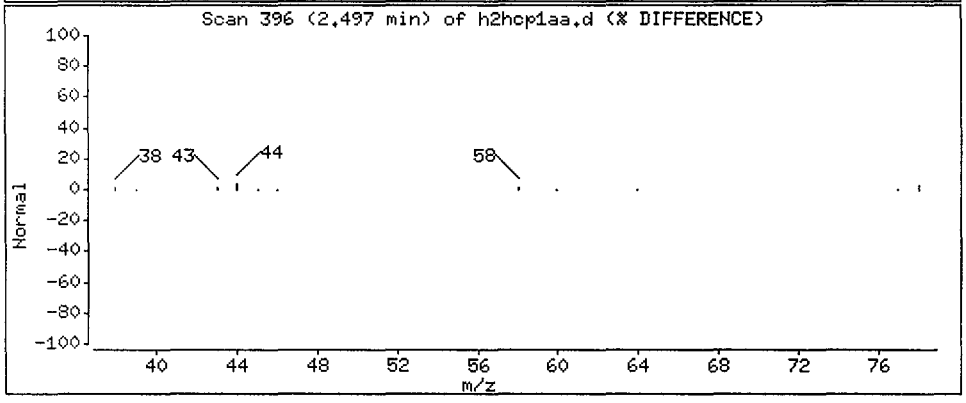












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

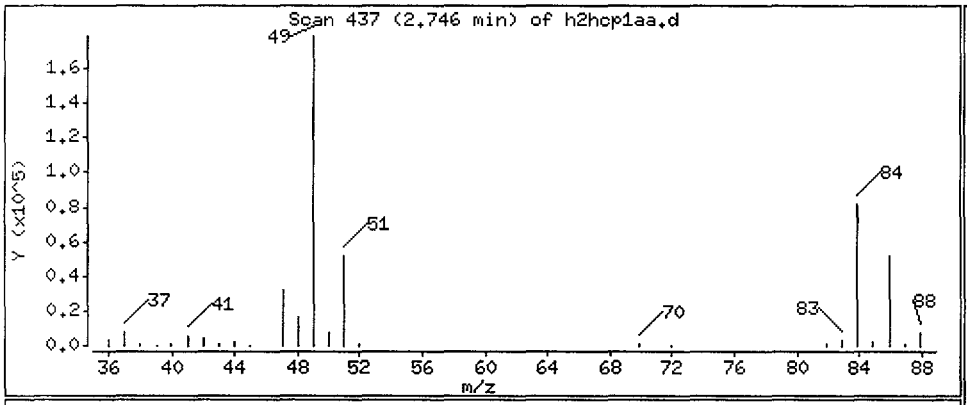
Operator: 22980

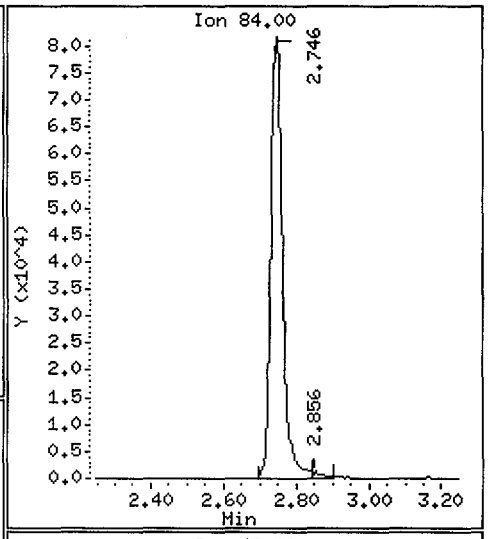
Column phase: J+W 624

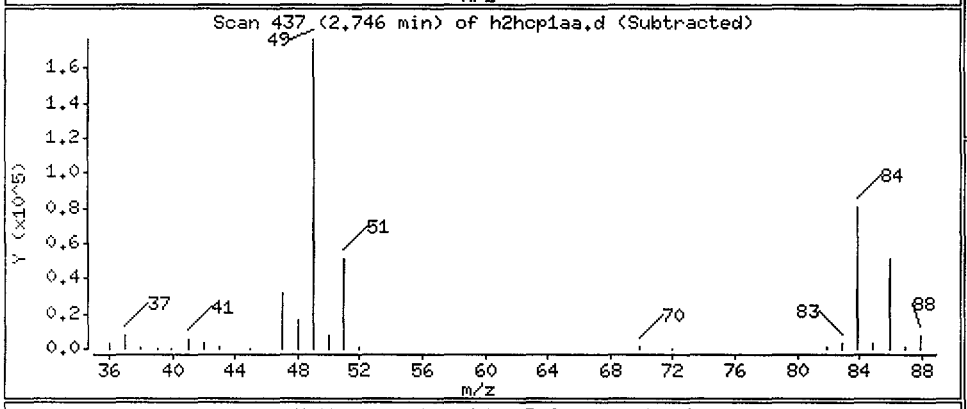
Column diameter: 0.18

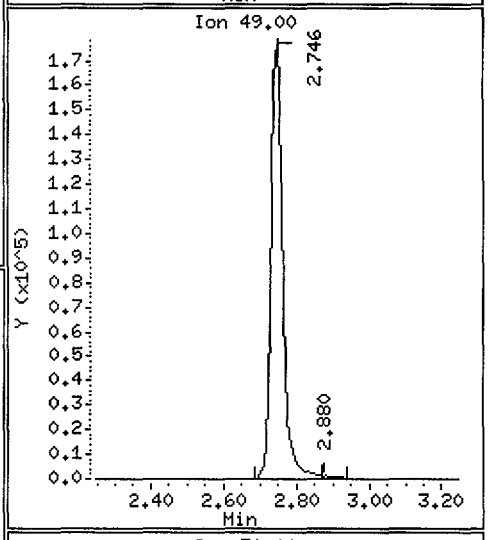
26 Methylene Chloride

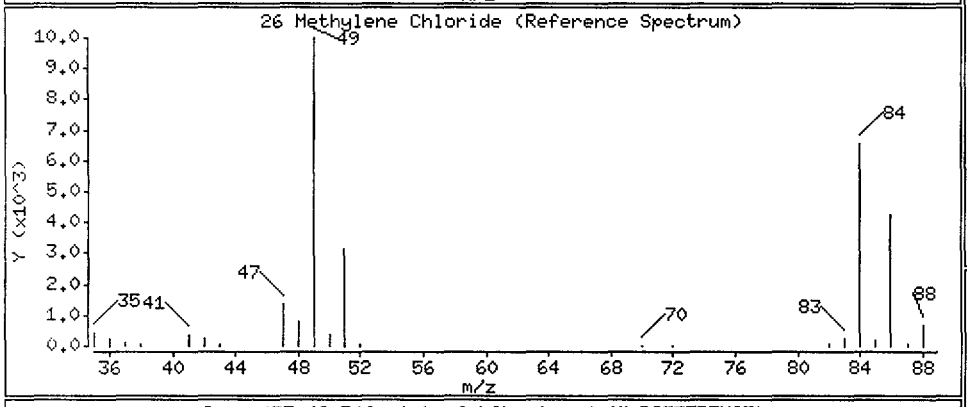
Concentration: 0.25761 ug

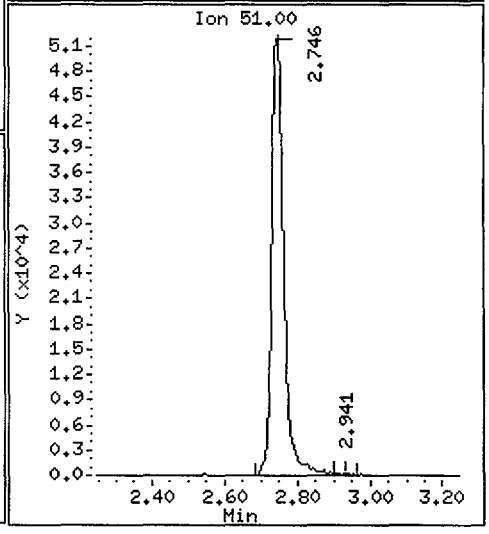


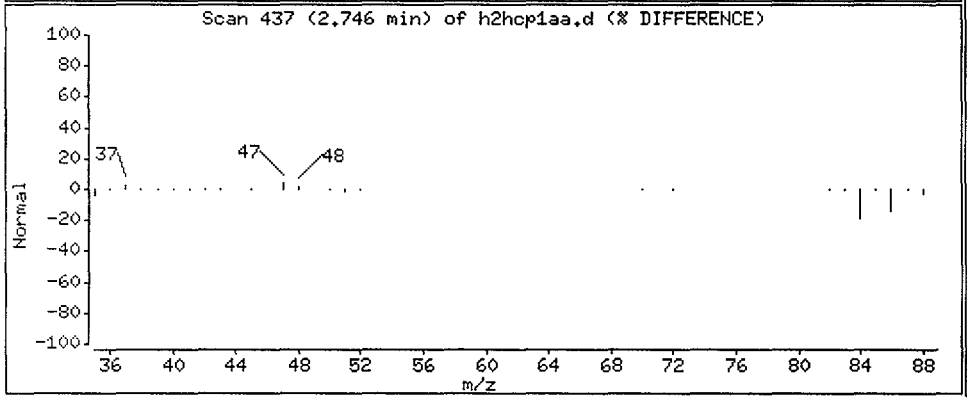












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

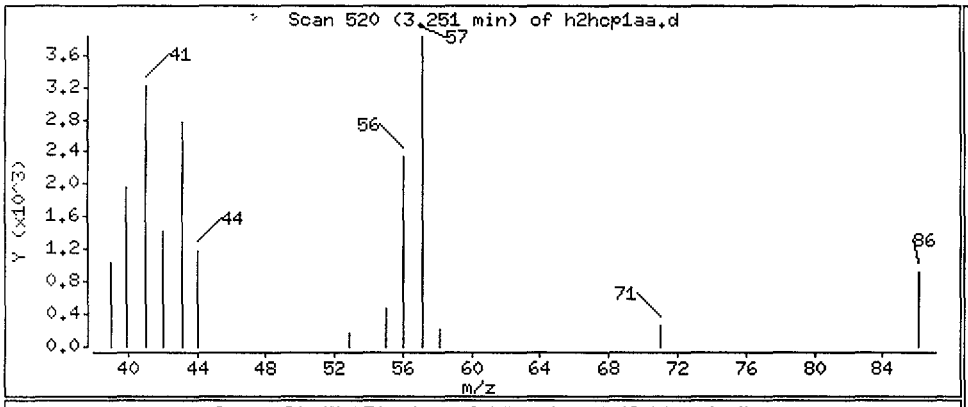
Operator: 22980

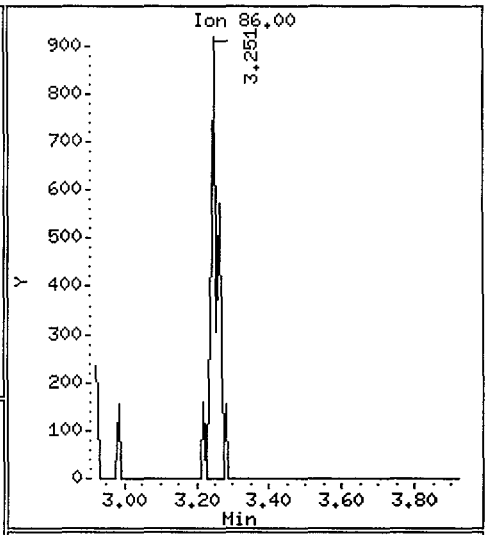
Column phase: J+W 624

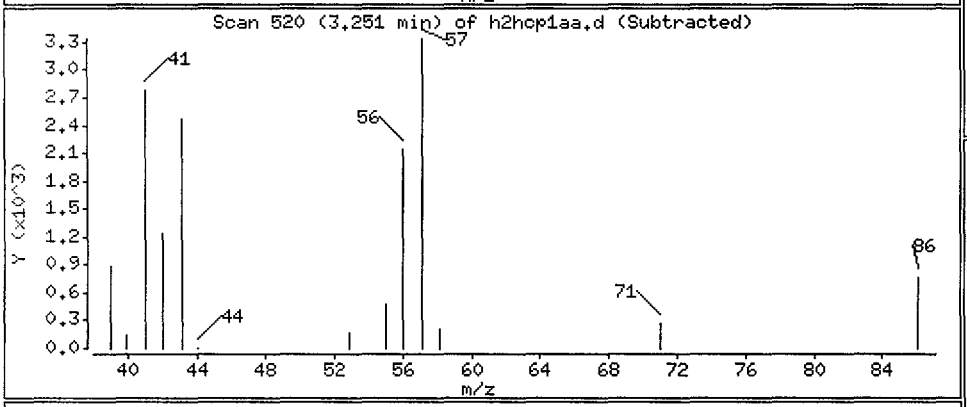
Column diameter: 0.18

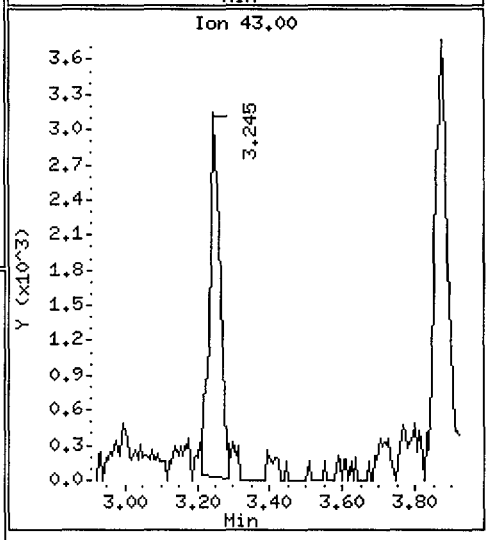
33 *Vinyl Acetate

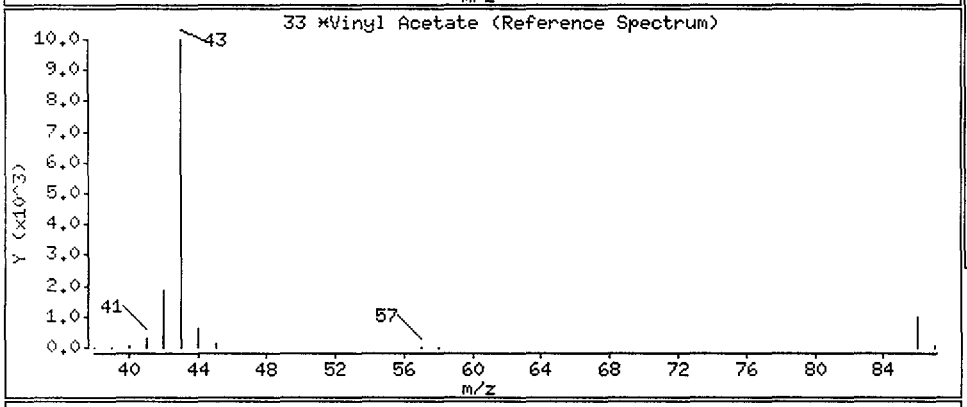
Concentration: 0.022226 ug

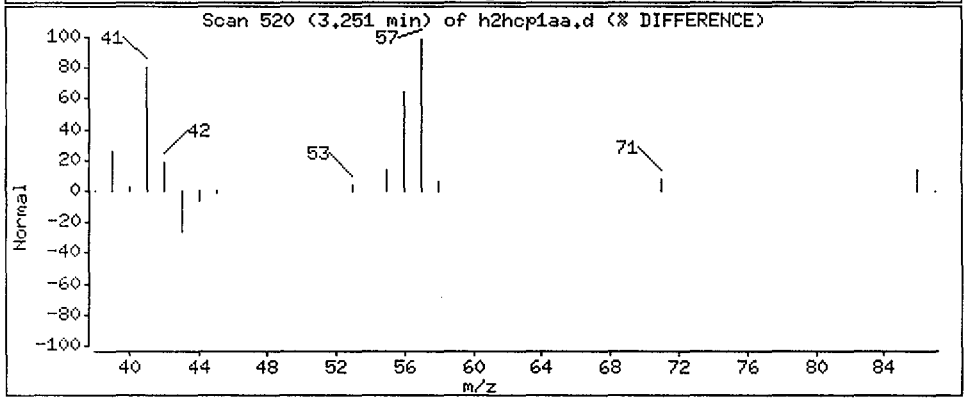












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

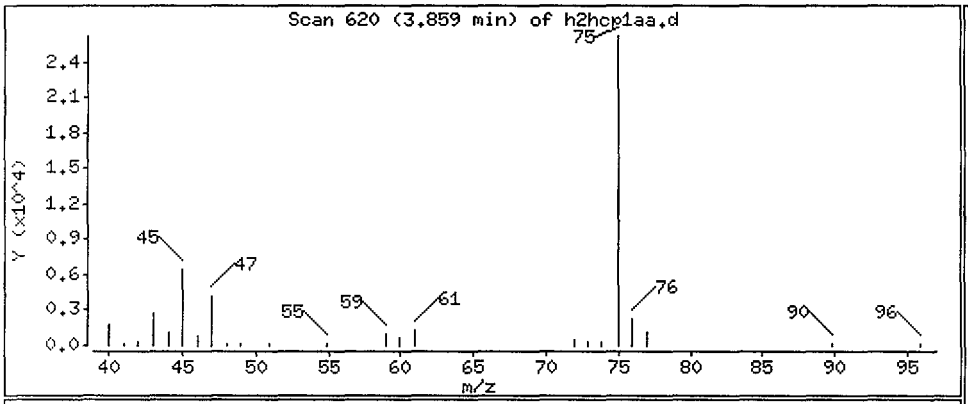
Operator: 22980

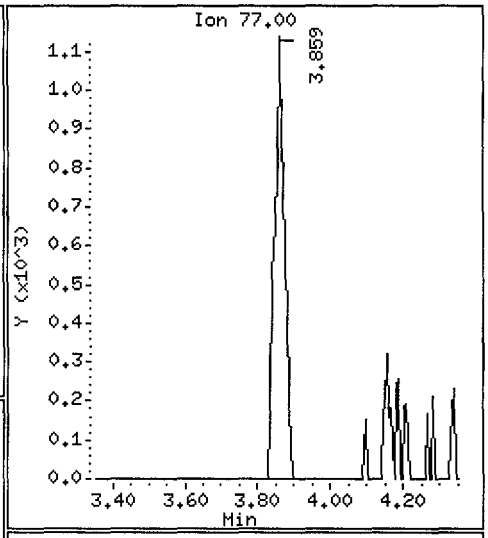
Column phase: J+W 624

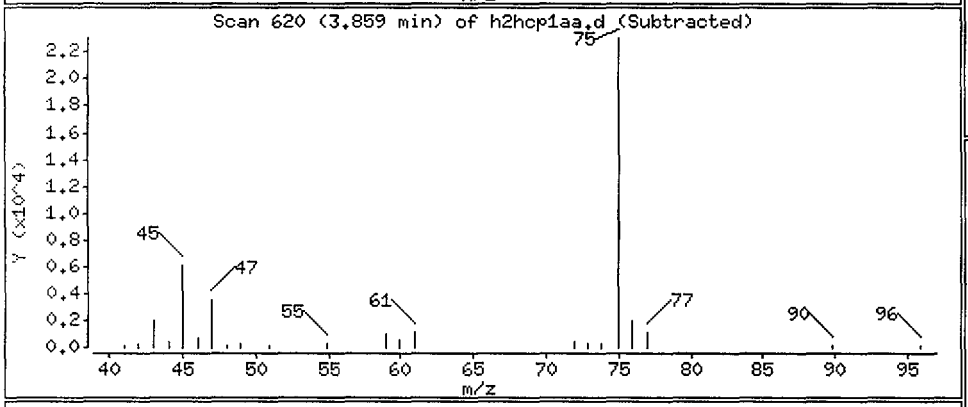
Column diameter: 0.18

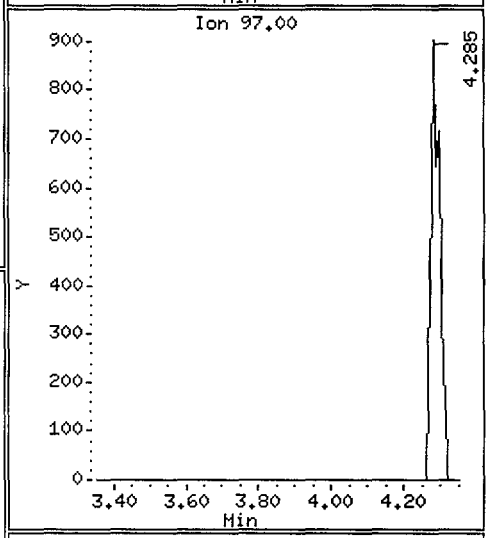
34 2,2-Dichloropropane

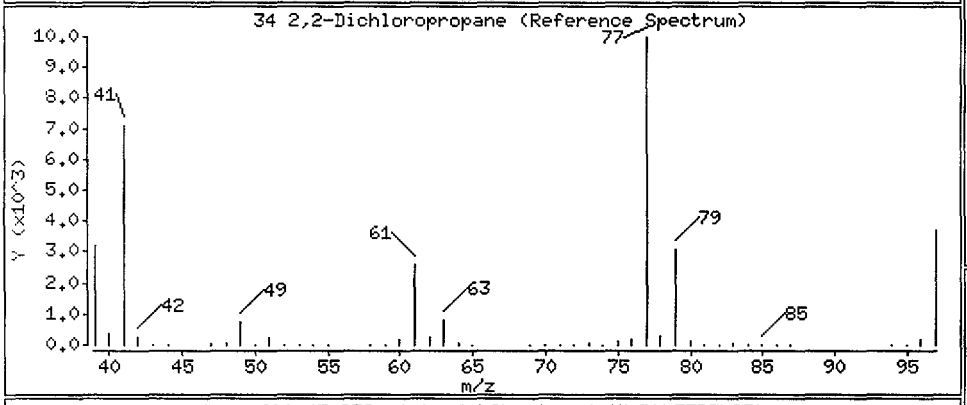
Concentration: 0.0010967 ug

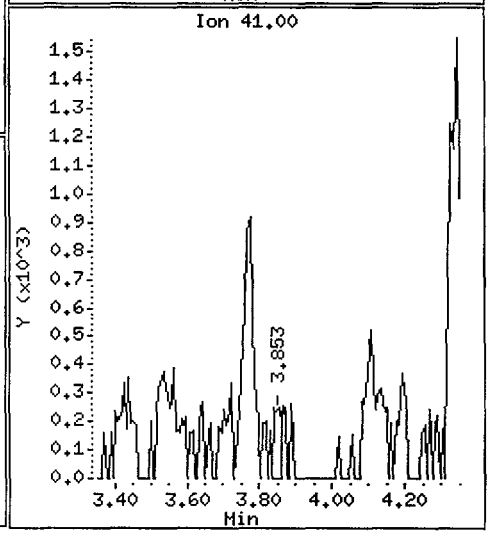


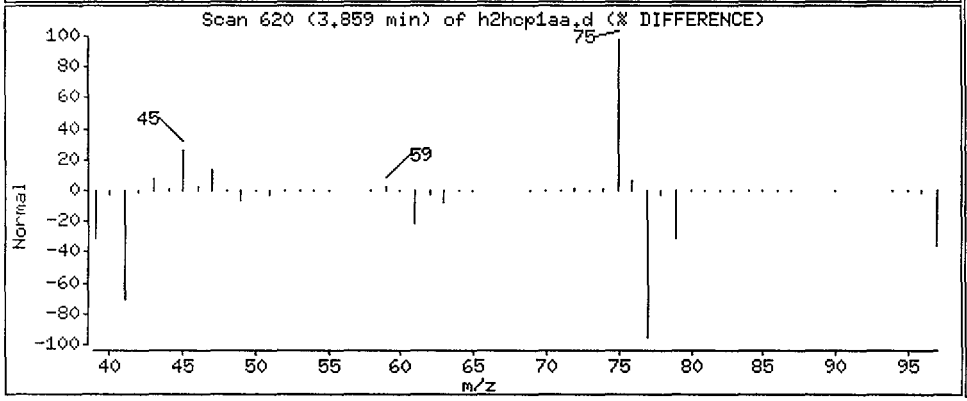












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

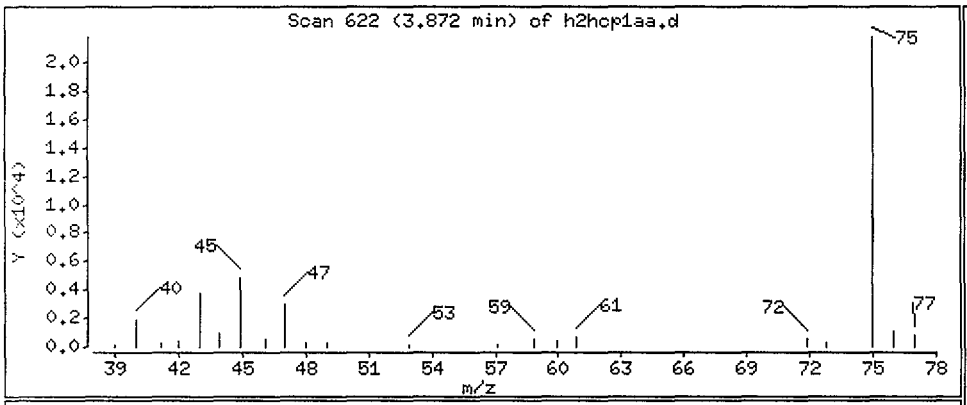
Operator: 22980

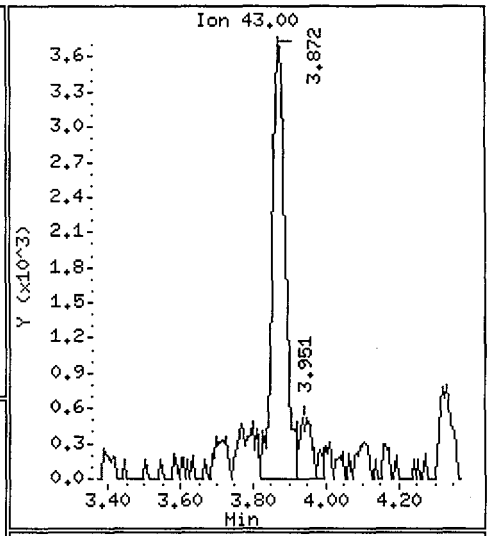
Column phase: J+W 624

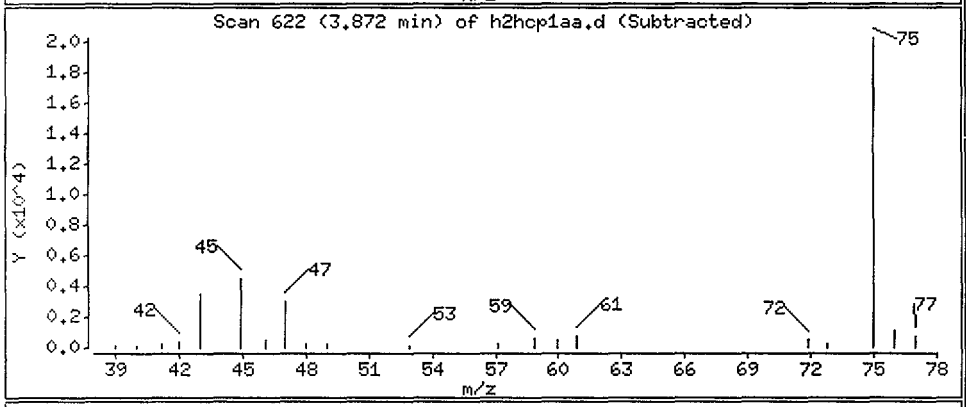
Column diameter: 0.18

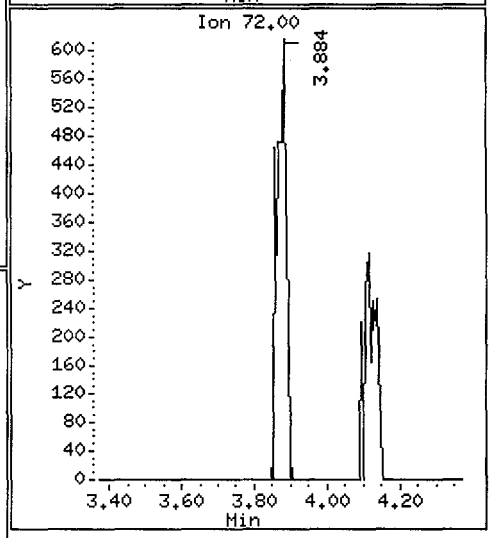
36 2-Butanone

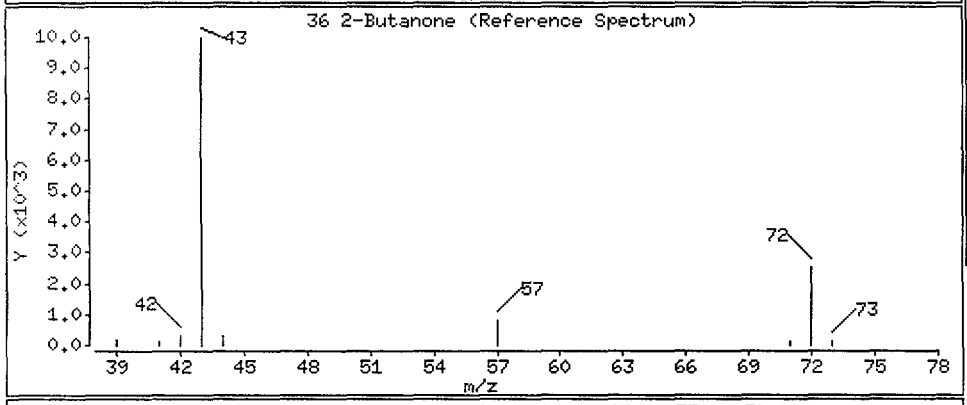
Concentration: 0.091588 ug

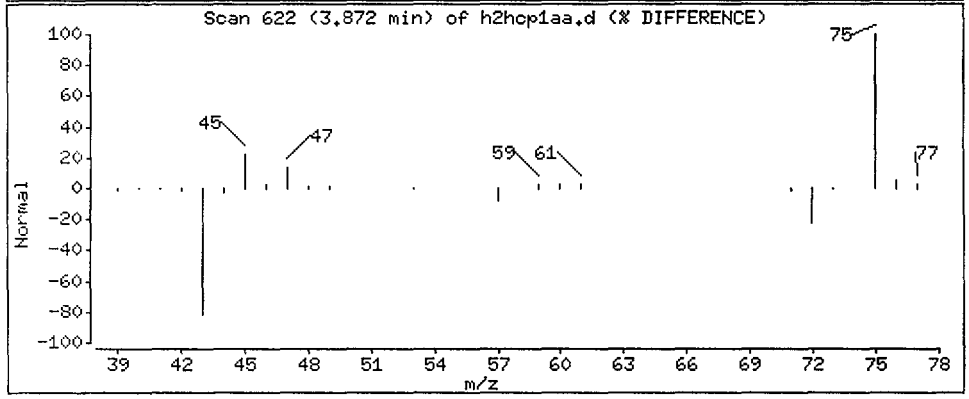












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

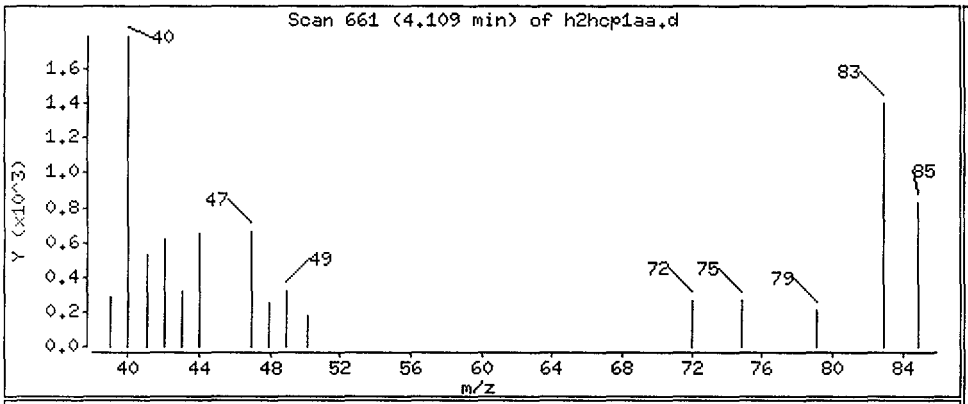
Operator: 22980

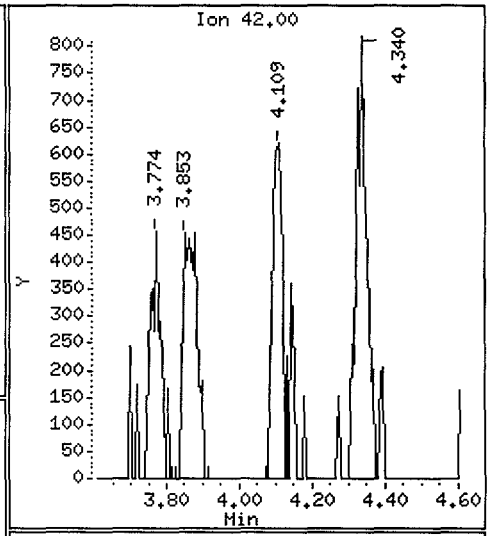
Column phase: J+W 624

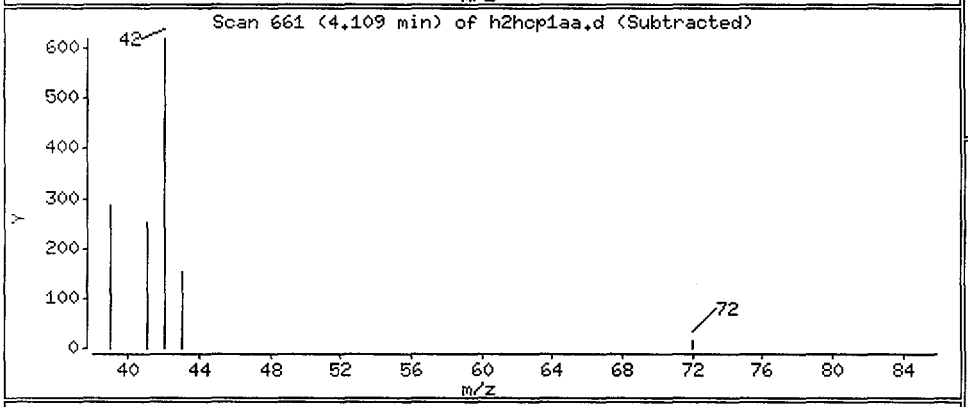
Column diameter: 0.18

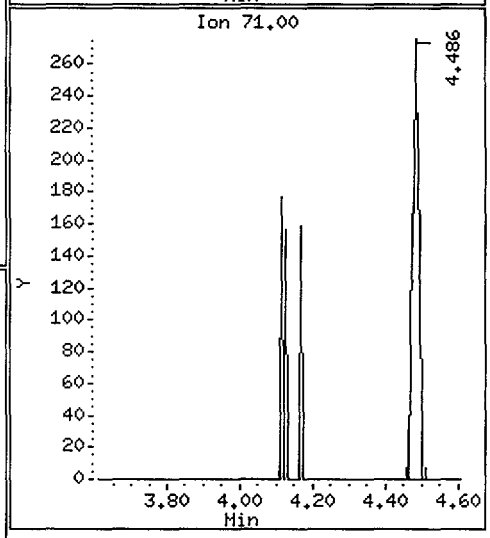
38 *THF

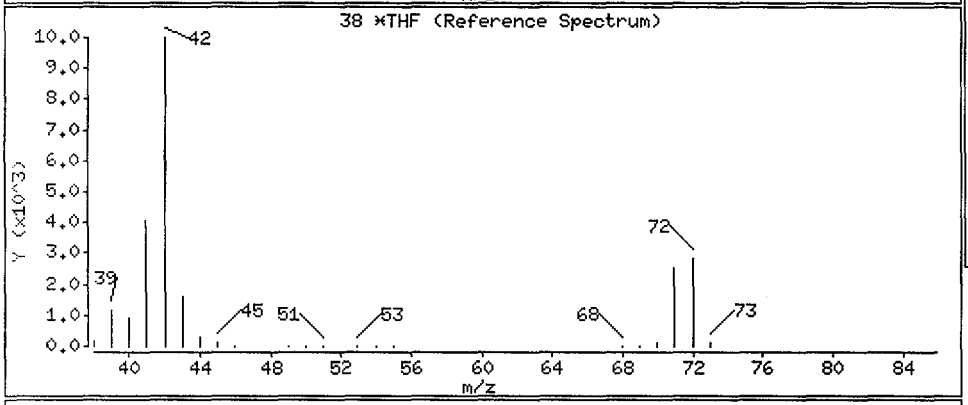
Concentration: 0.019591 ug

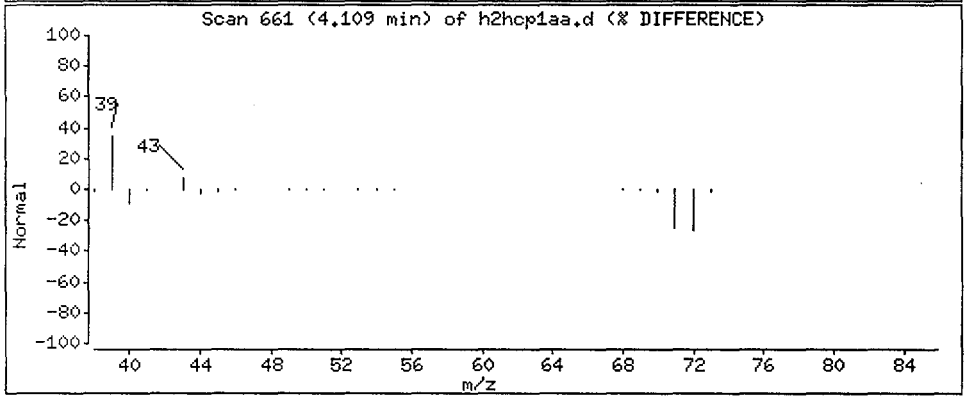












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

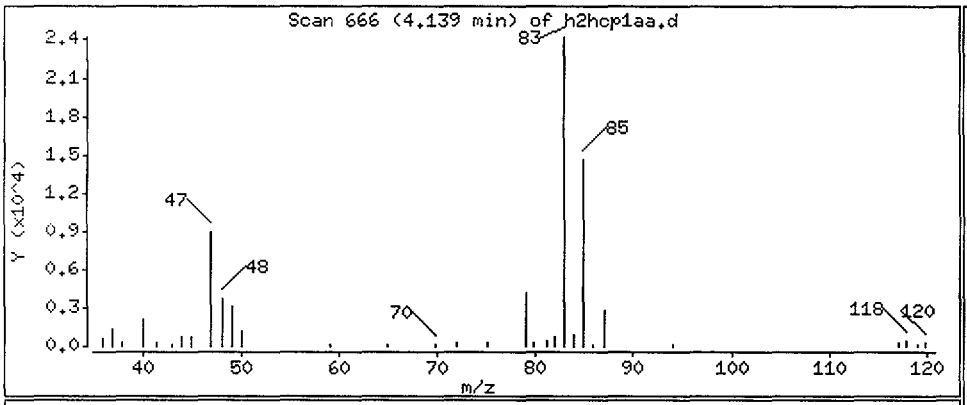
Operator: 22980

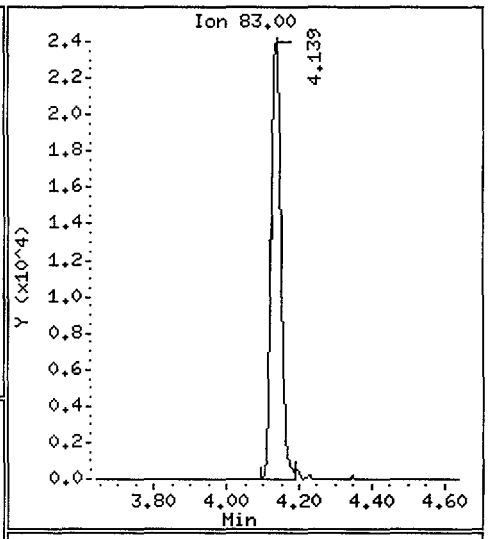
Column phase: J+W 624

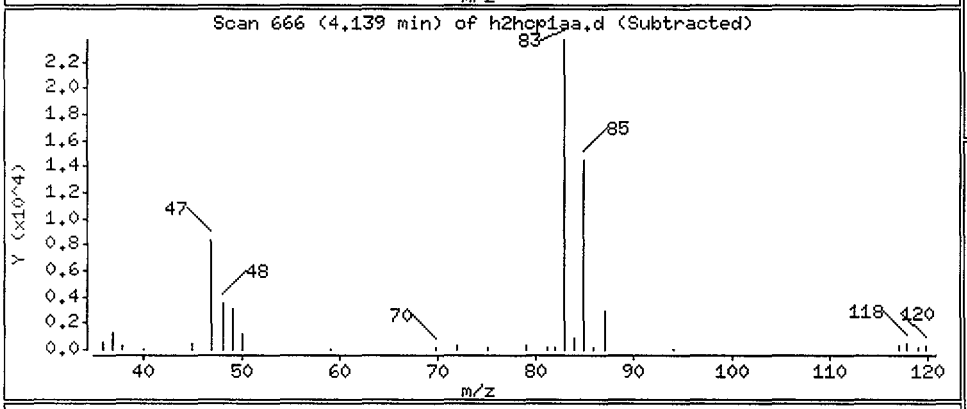
Column diameter: 0.18

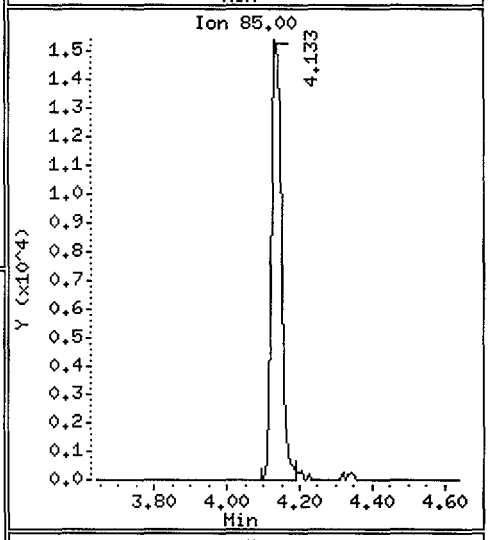
39 Chloroform (ccc)

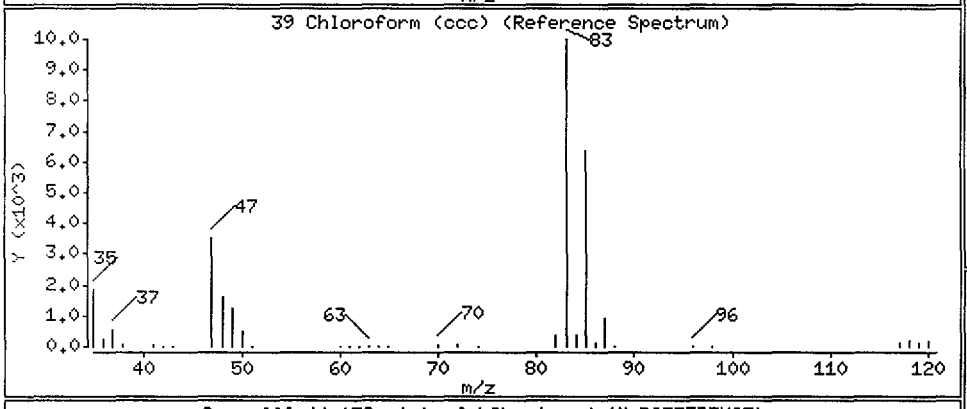
Concentration: 0.025468 ug

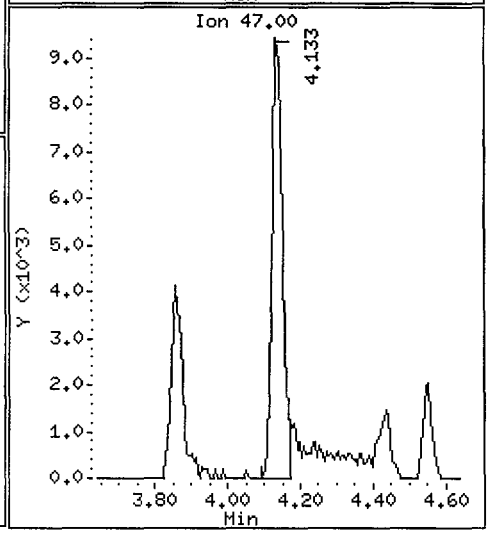


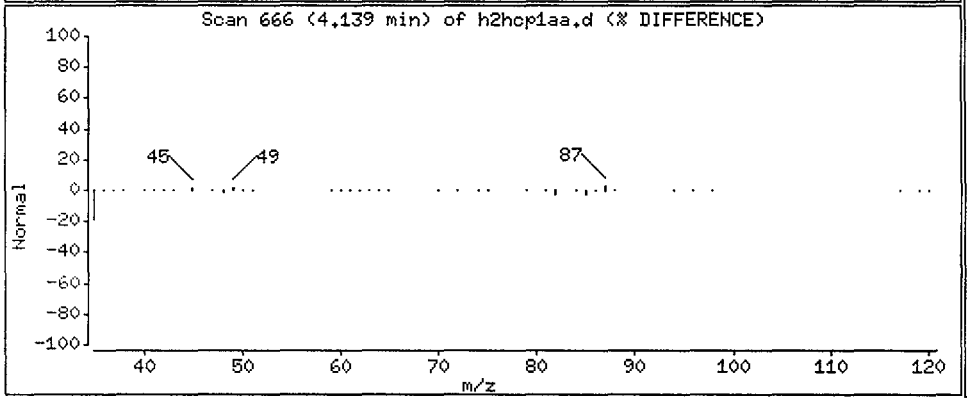












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

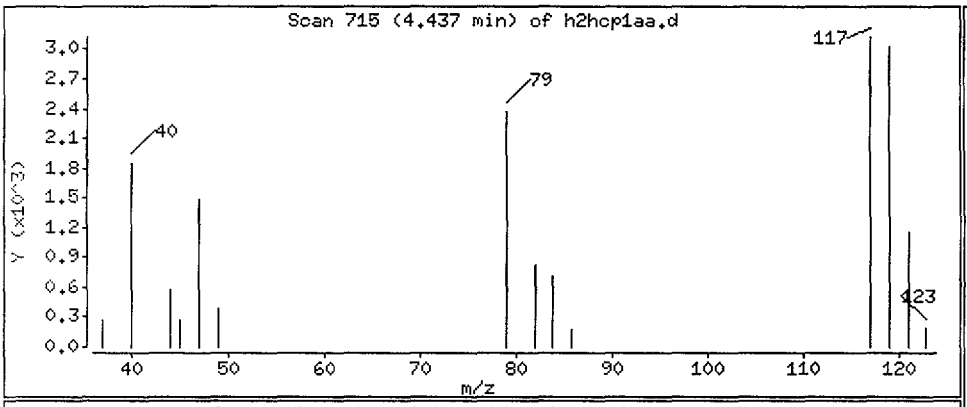
Operator: 22980

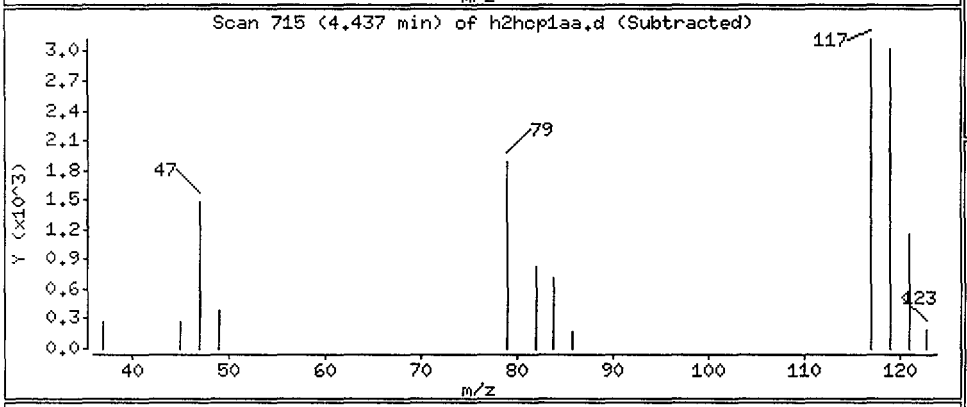
Column phase: J+W 624

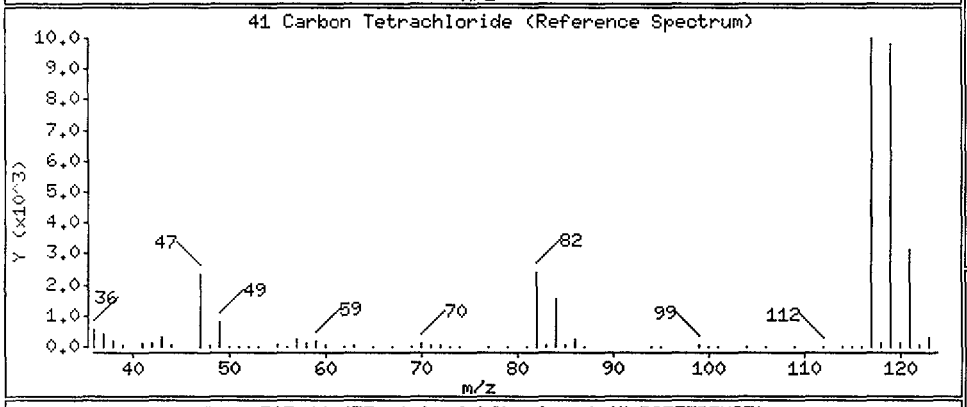
Column diameter: 0.18

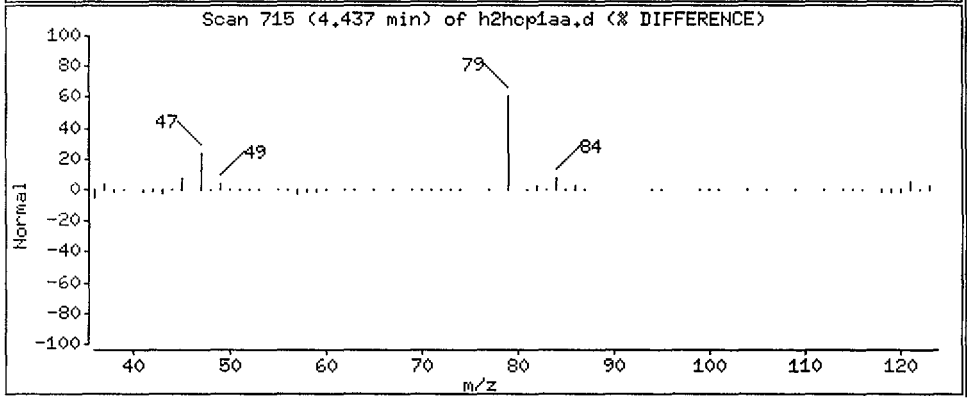
41 Carbon Tetrachloride

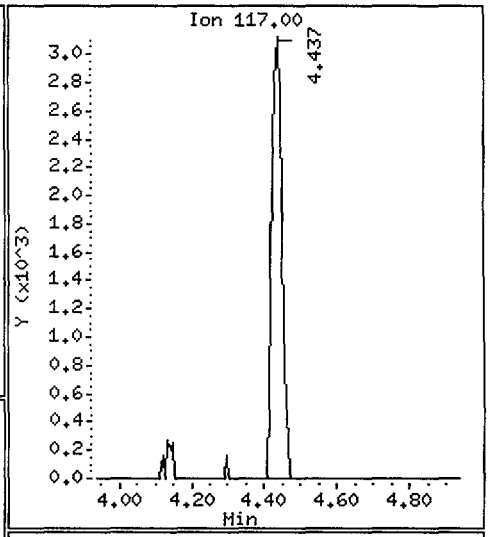
Concentration: 0.0036547 ug

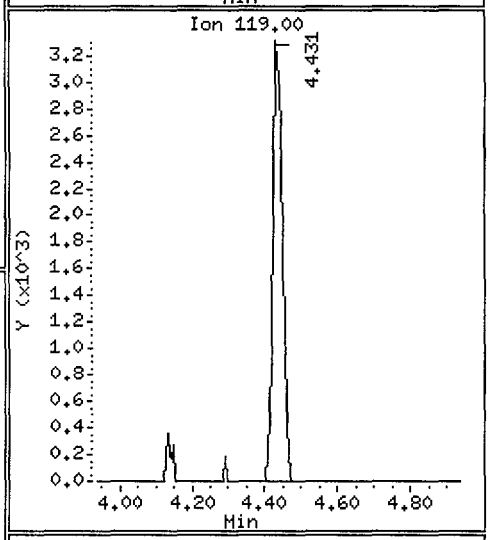


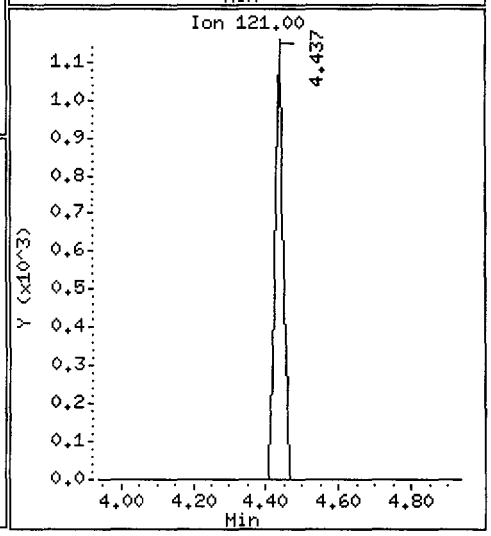












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

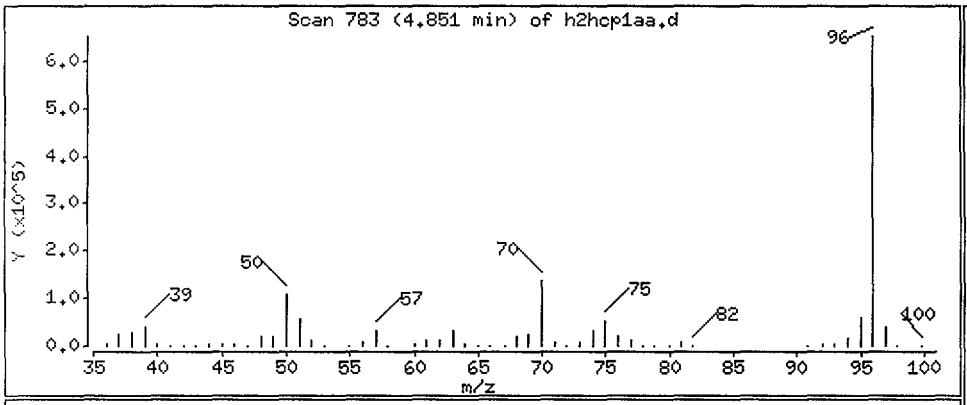
Operator: 22980

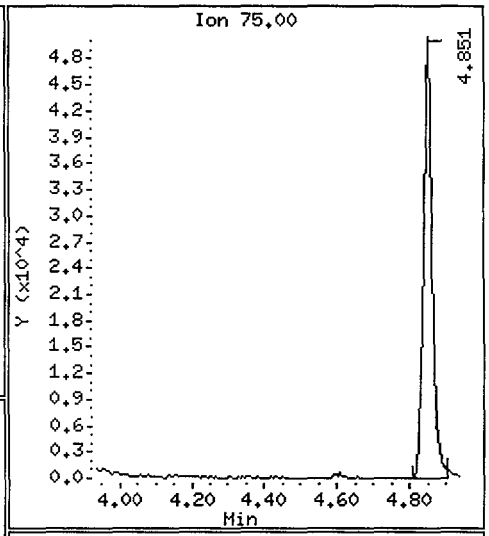
Column phase: J+W 624

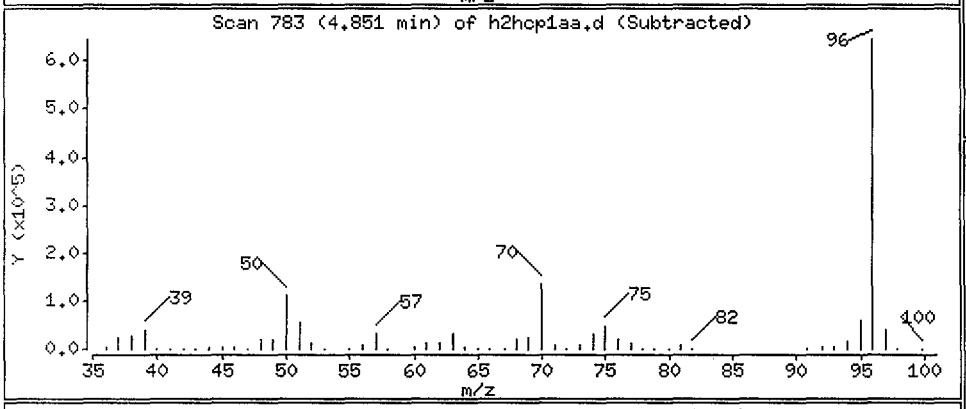
Column diameter: 0.18

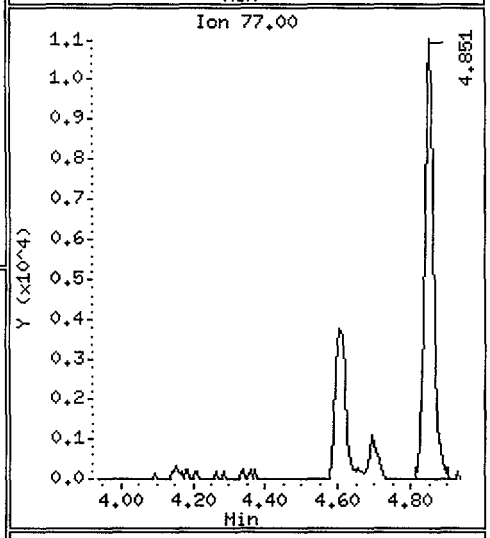
42 1,1-Dichloropropene

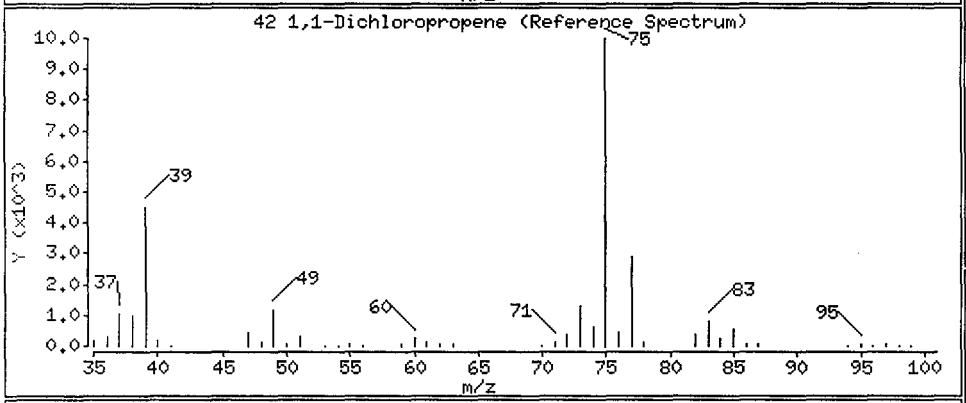
Concentration: 0.048002 ug

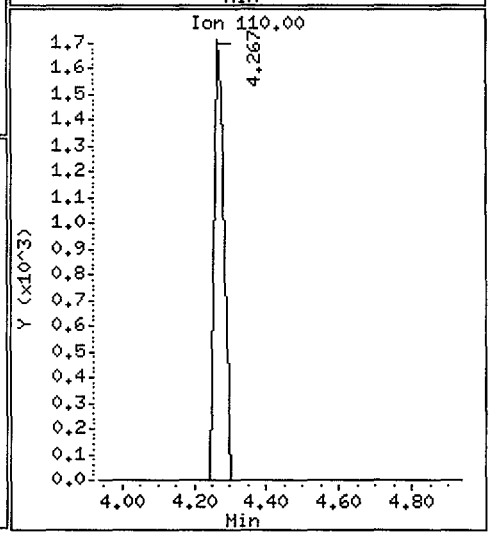


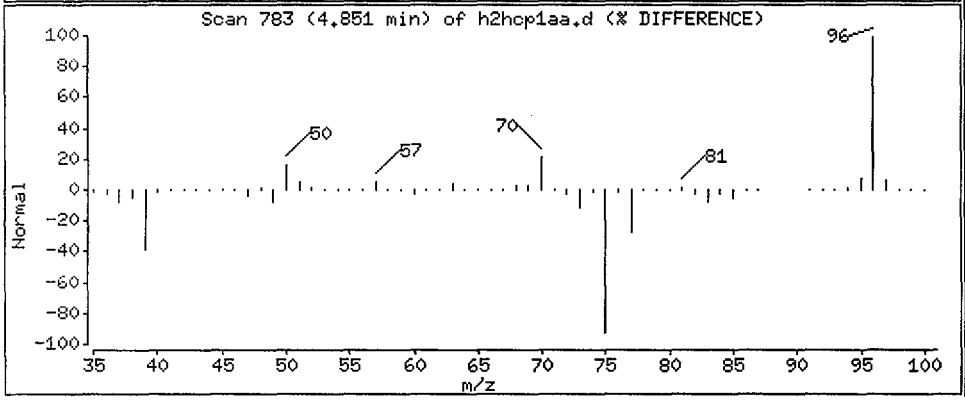












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

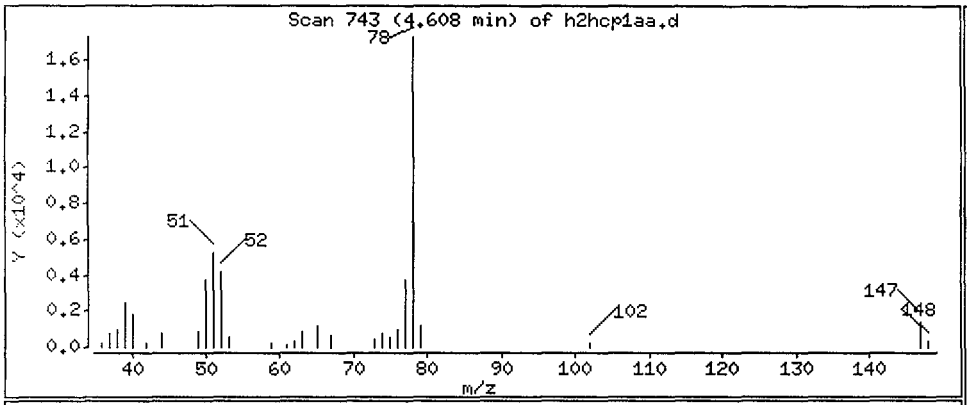
Operator: 22980

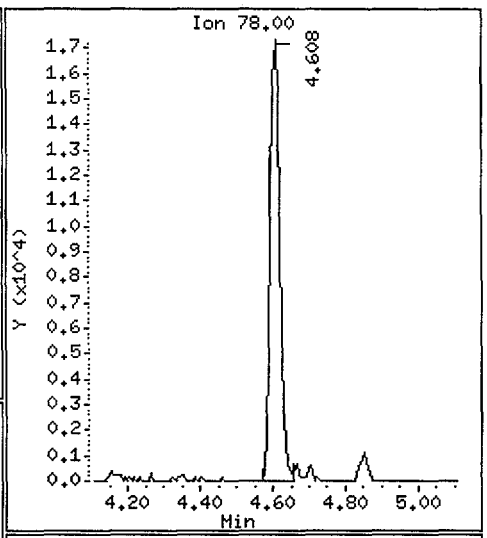
Column phase: J+W 624

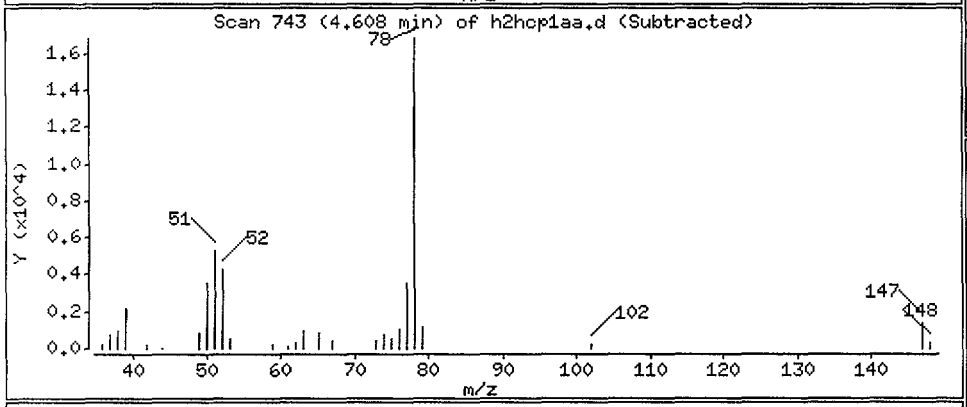
Column diameter: 0.18

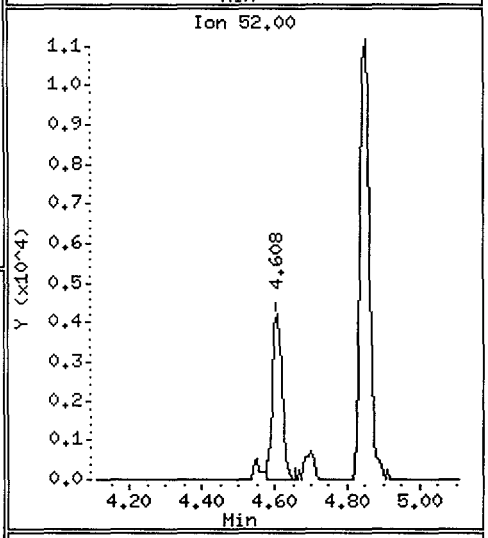
43 Benzene

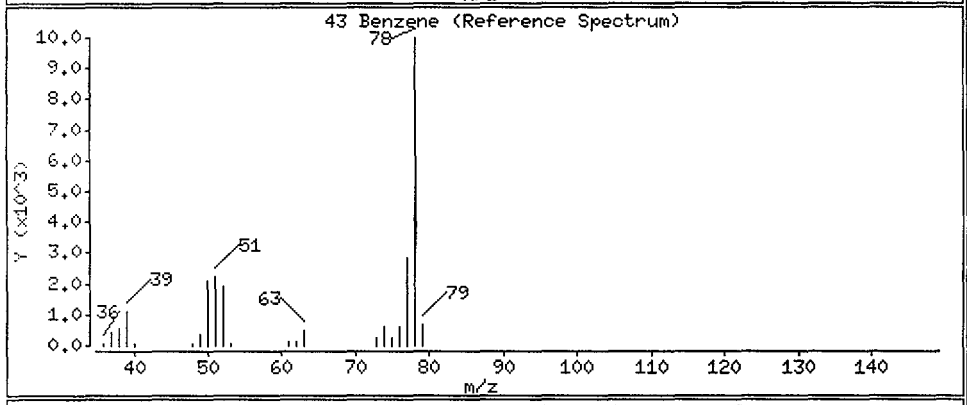
Concentration: 0.0068560 ug

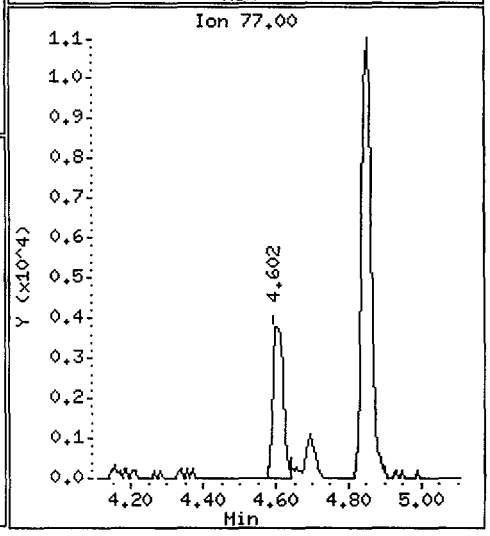


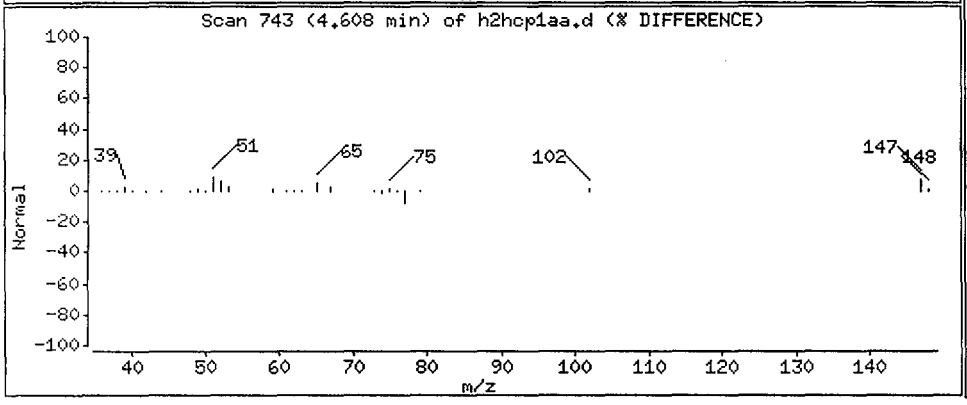












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

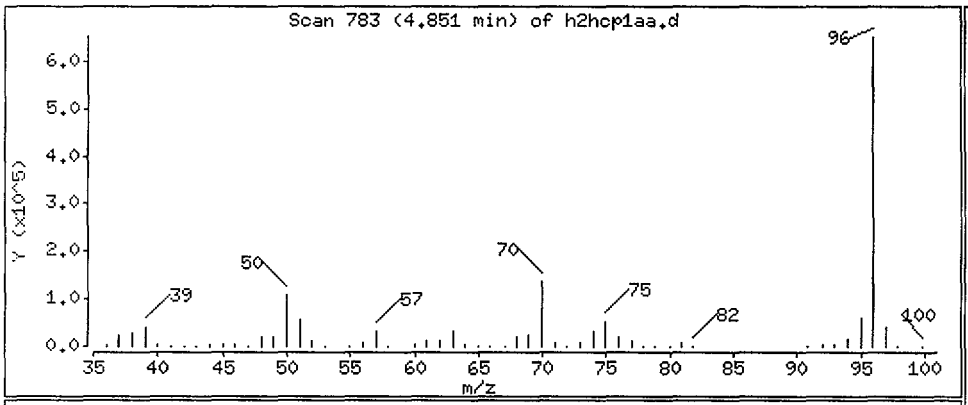
Operator: 22980

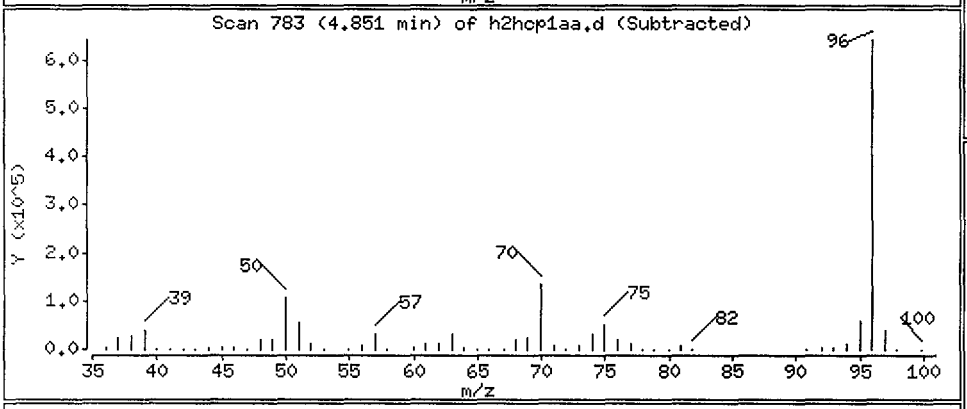
Column phase: J+W 624

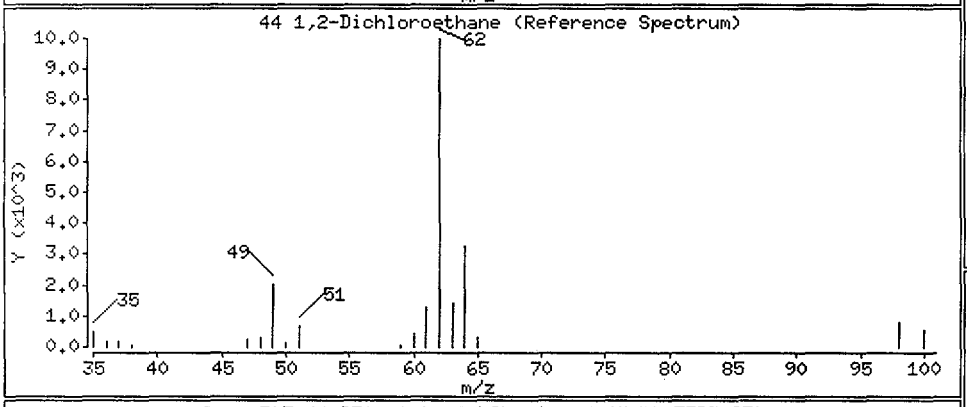
Column diameter: 0.18

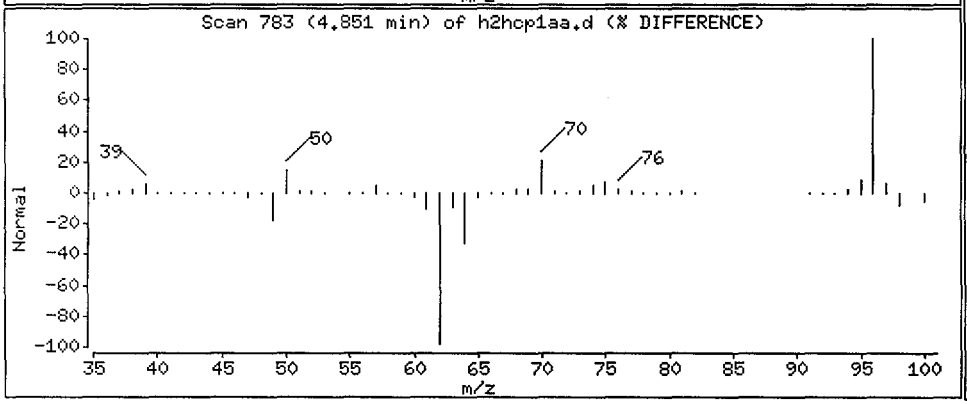
44 1,2-Dichloroethane

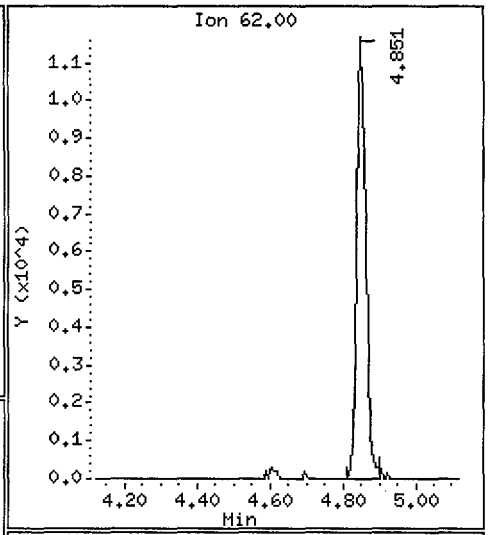
Concentration: 0.026109 ug

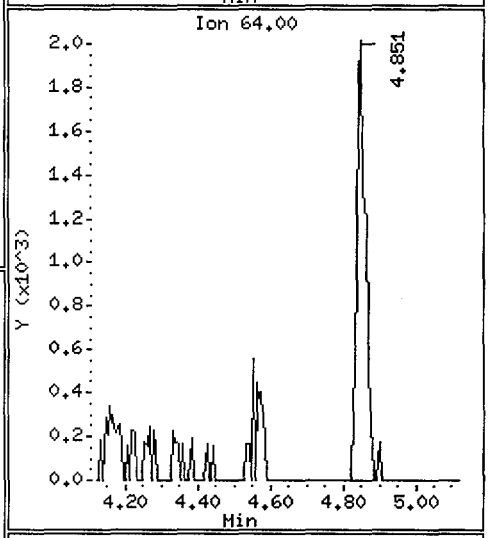


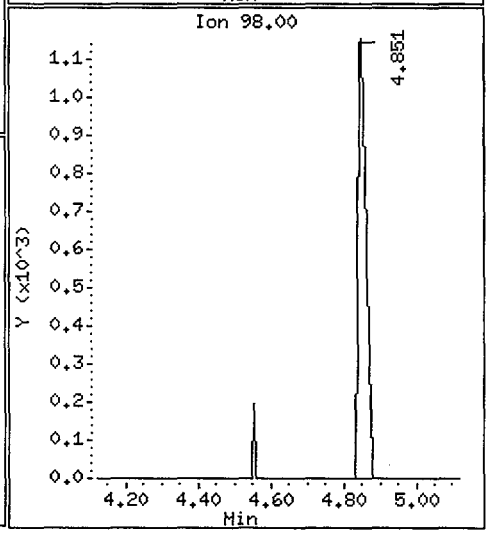












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

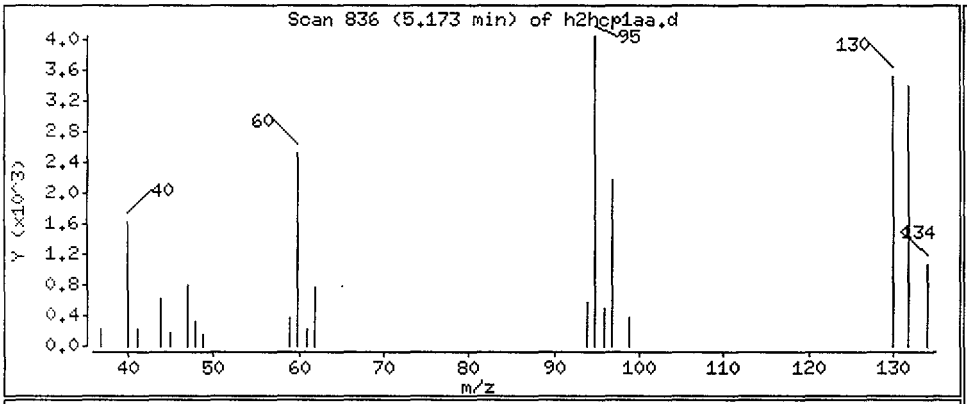
Operator: 22980

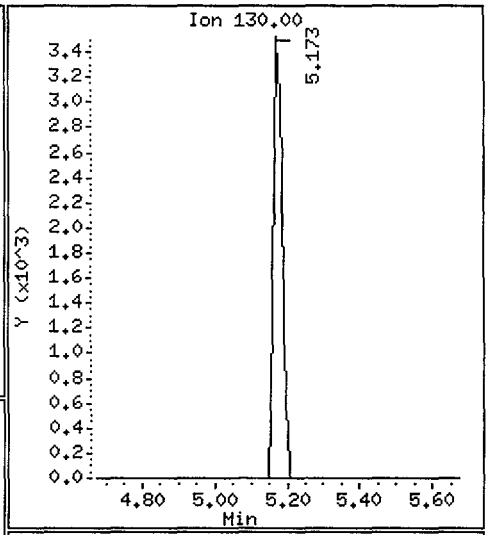
Column phase: J+W 624

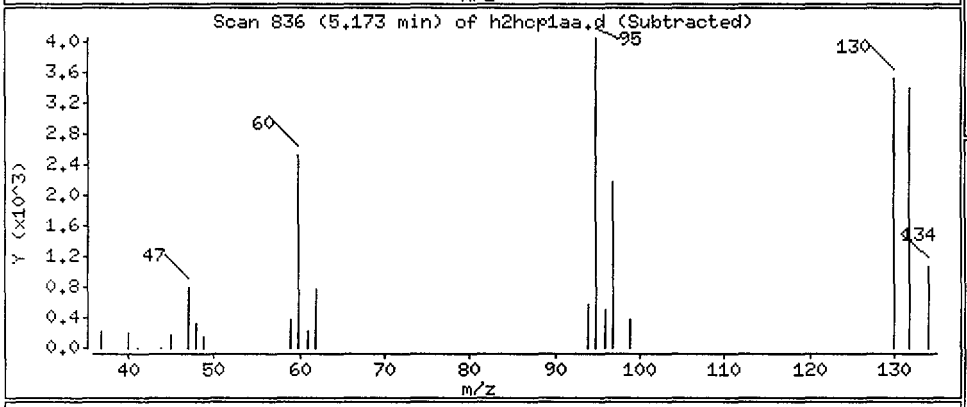
Column diameter: 0.18

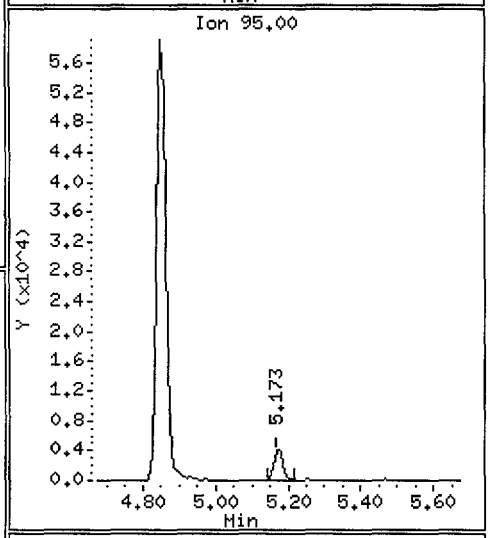
45 Trichloroethene

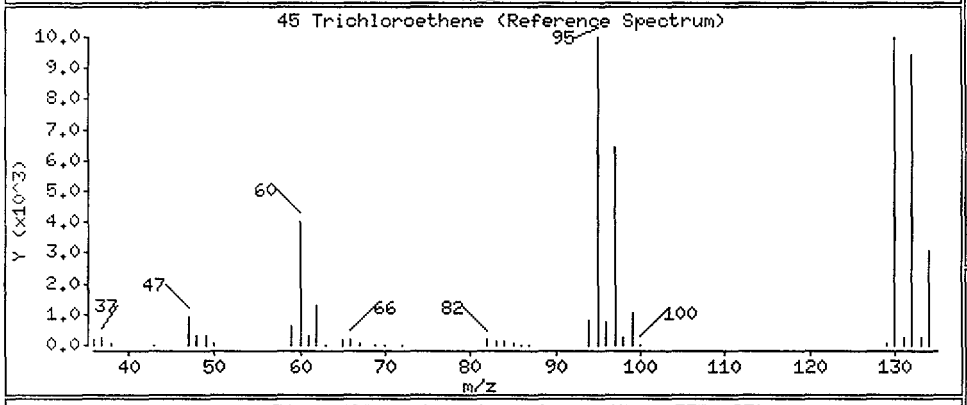
Concentration: 0.0046578 ug

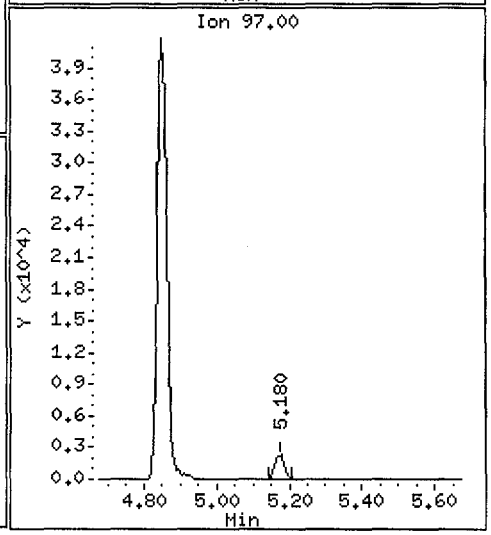


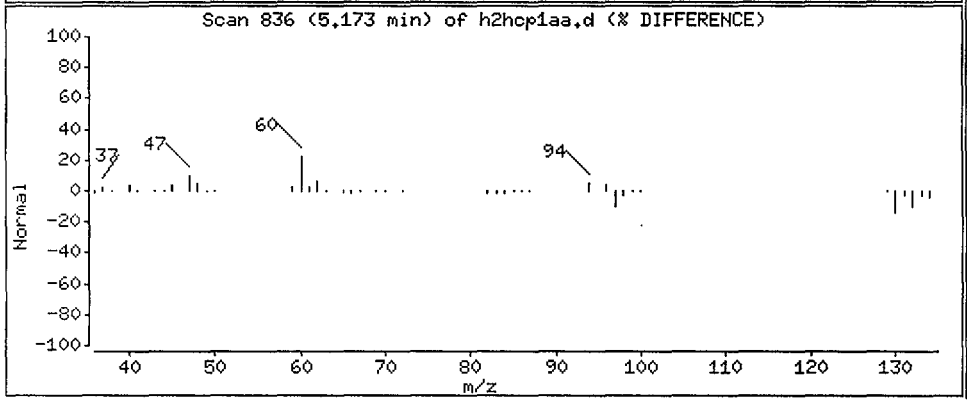












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

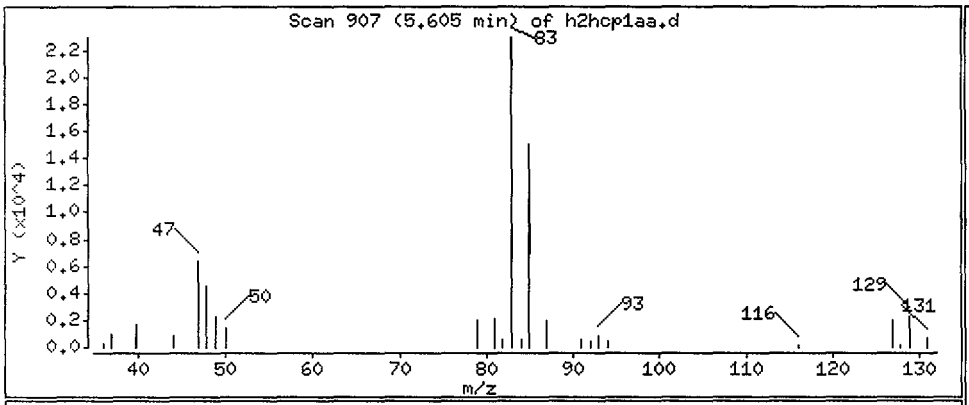
Operator: 22980

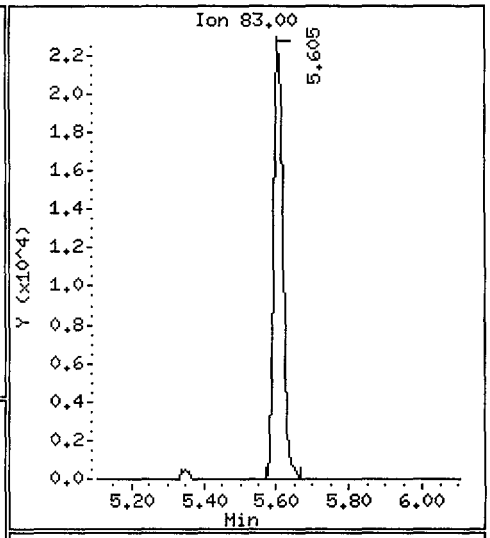
Column phase: J+W 624

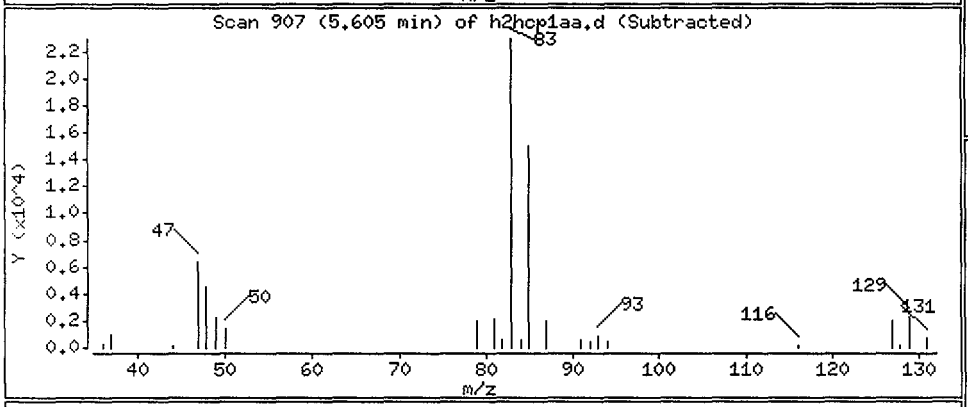
Column diameter: 0.18

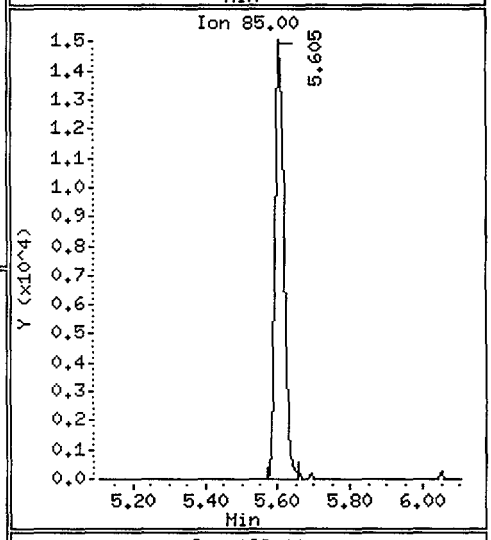
49 Bromodichloromethane

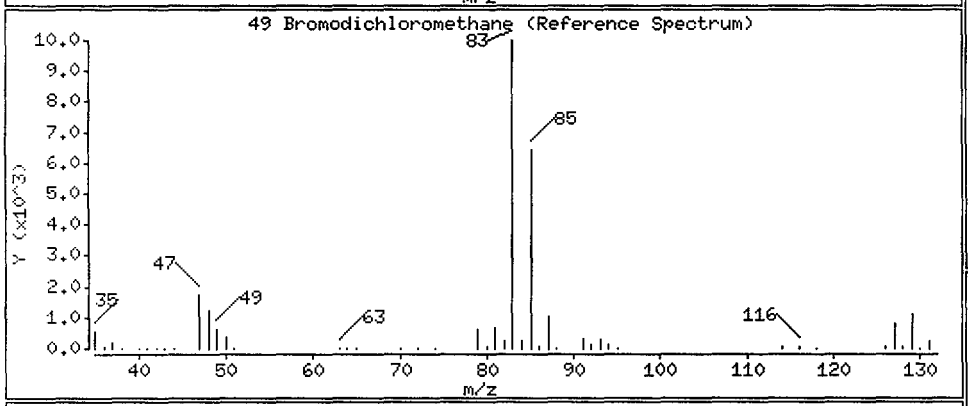
Concentration: 0.040415 ug

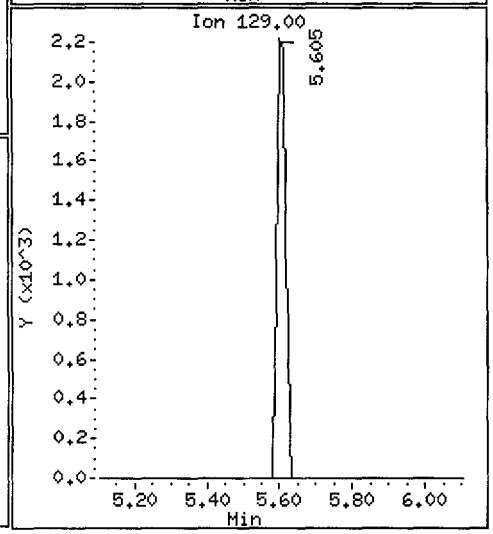


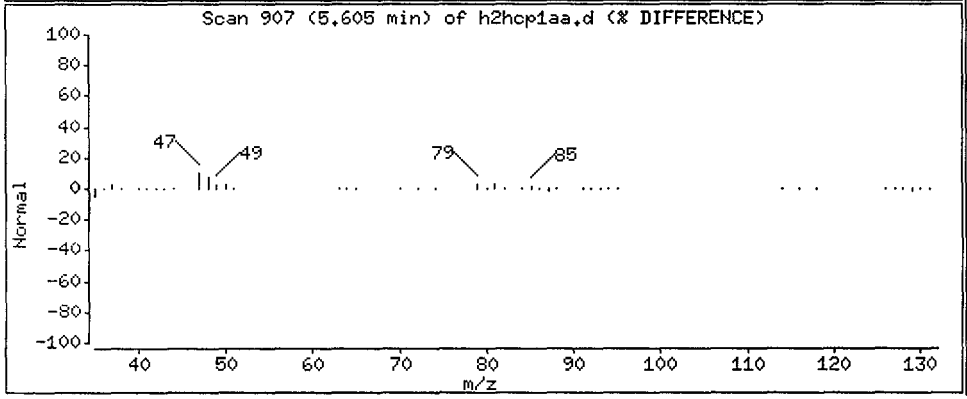












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

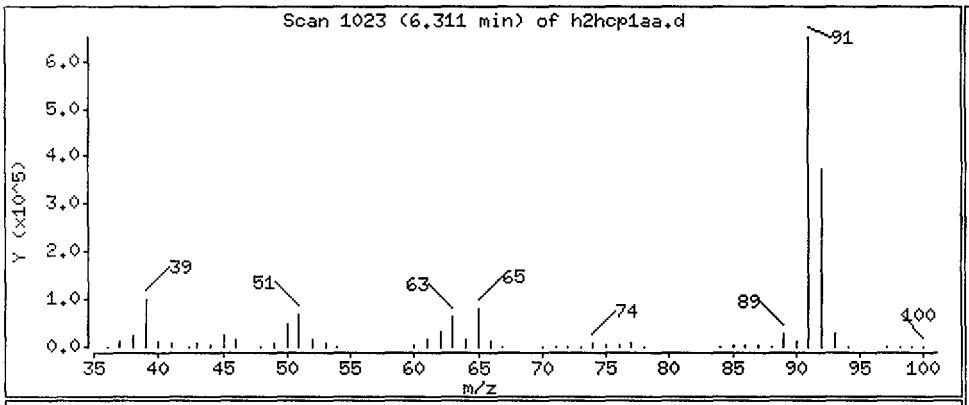
Operator: 22980

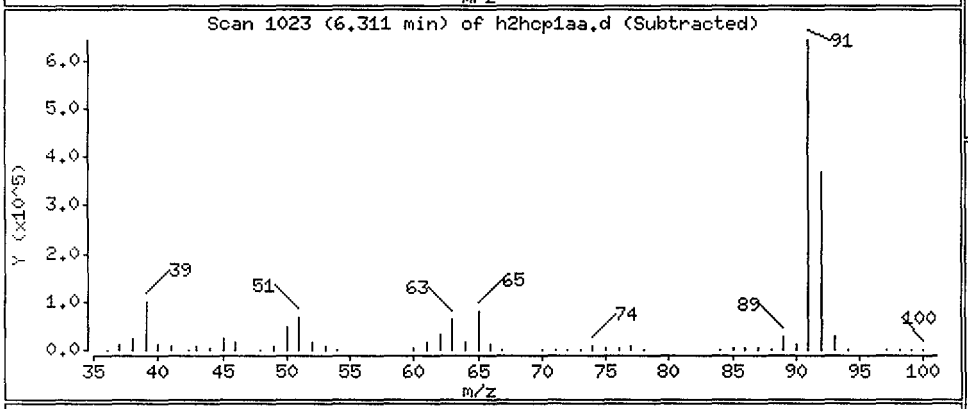
Column phase: J+W 624

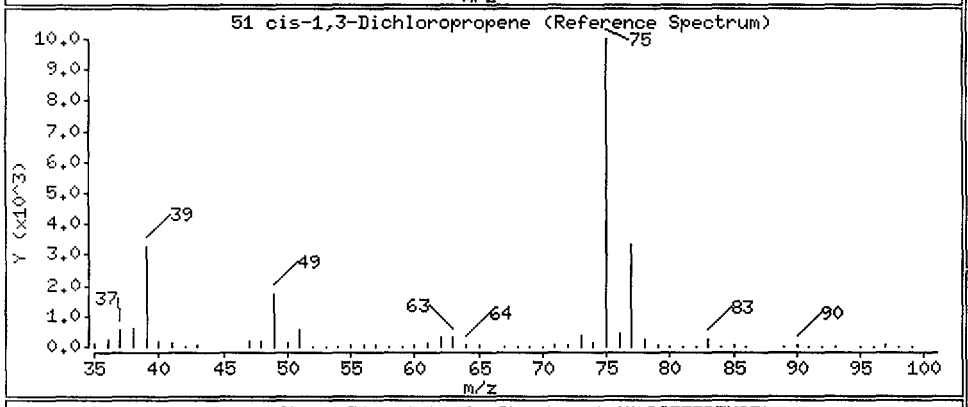
Column diameter: 0.18

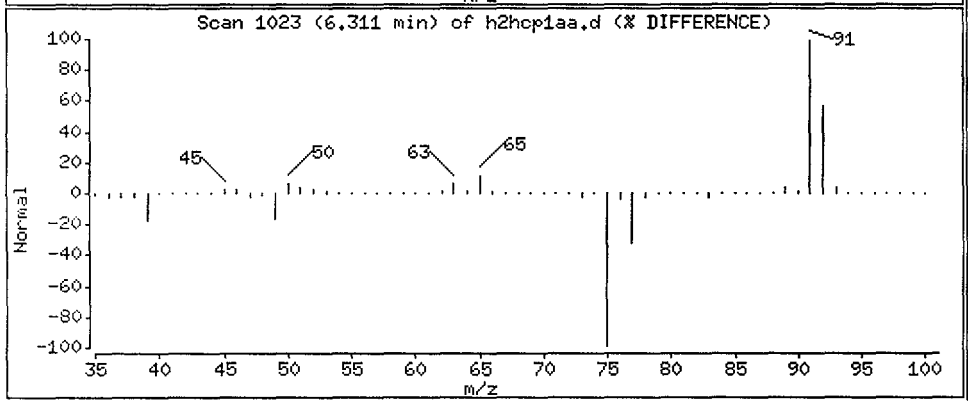
51 cis-1,3-Dichloropropene

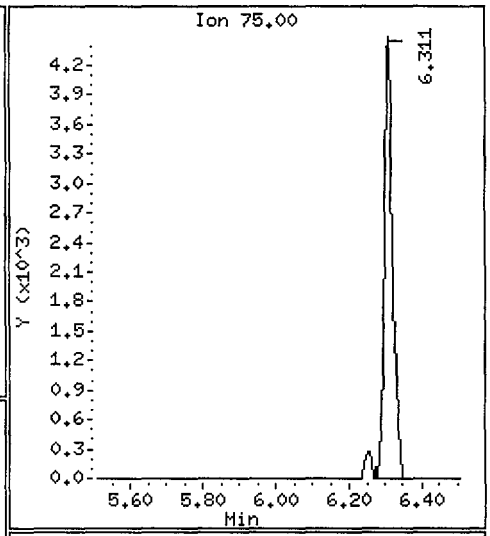
Concentration: 0.0067083 ug

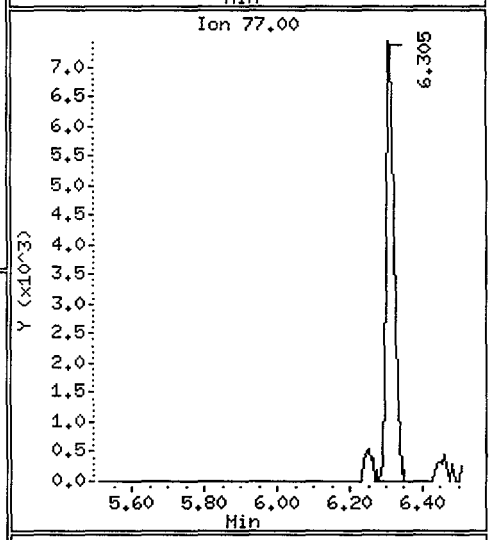


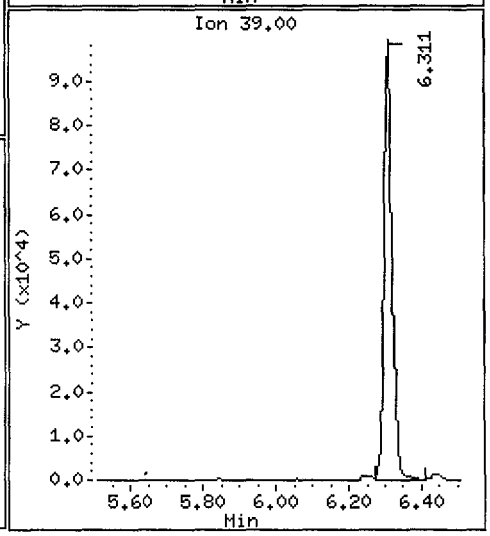












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

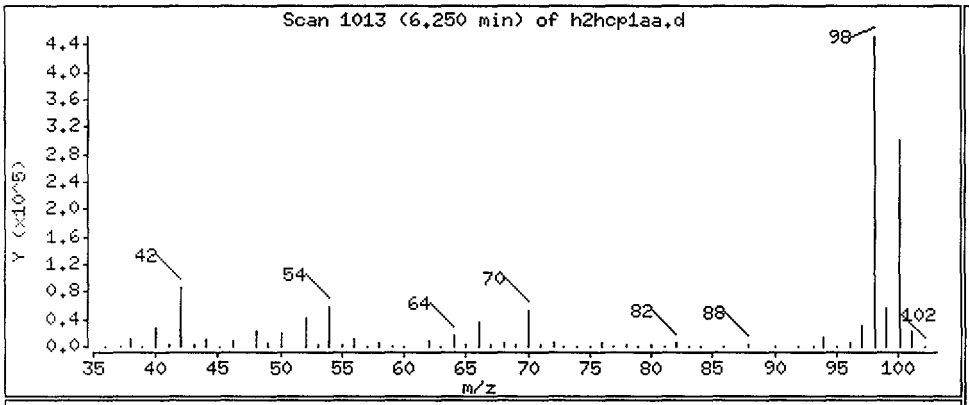
Operator: 22980

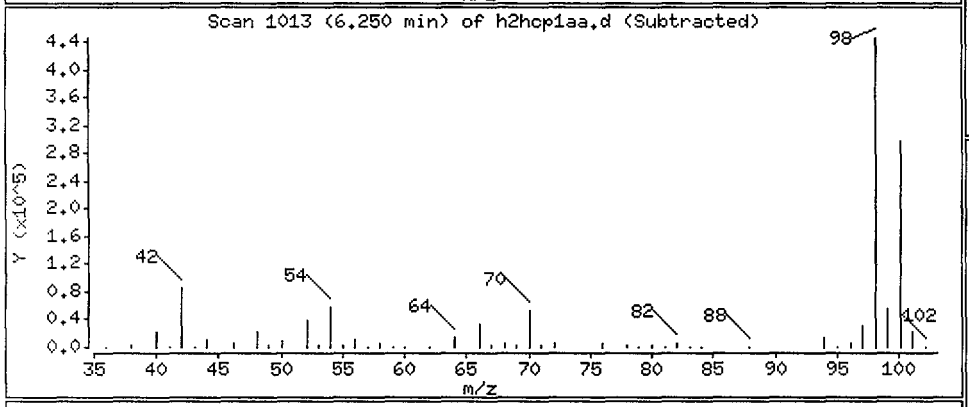
Column phase: J+W 624

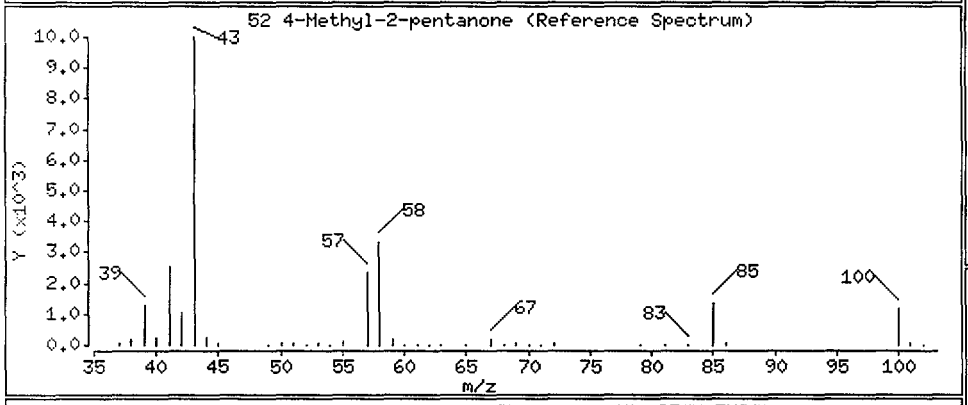
Column diameter: 0.18

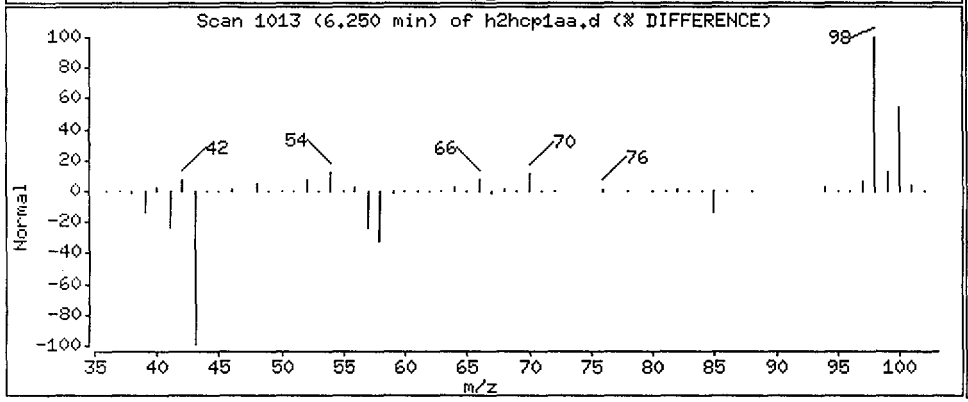
52 4-Methyl-2-pentanone

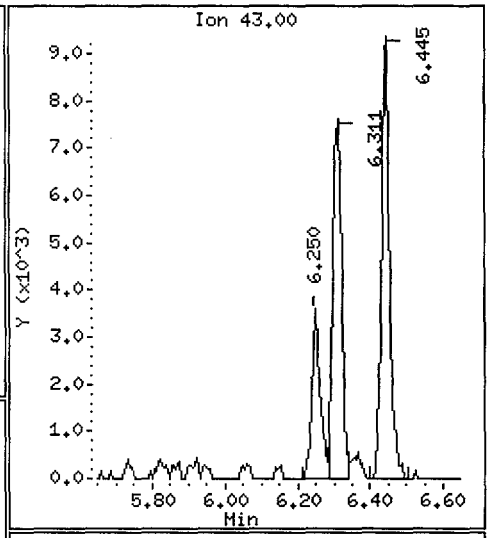
Concentration: 0.025527 ug

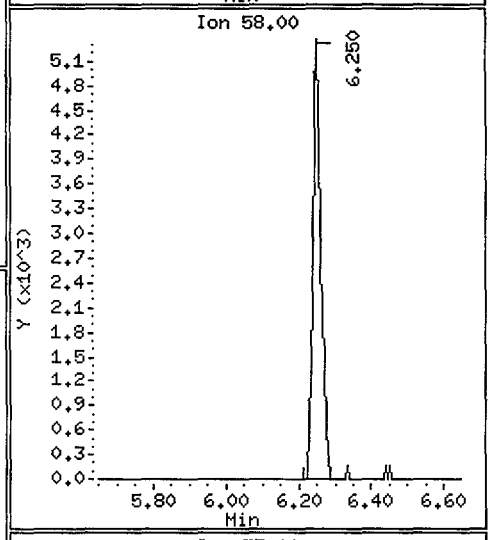


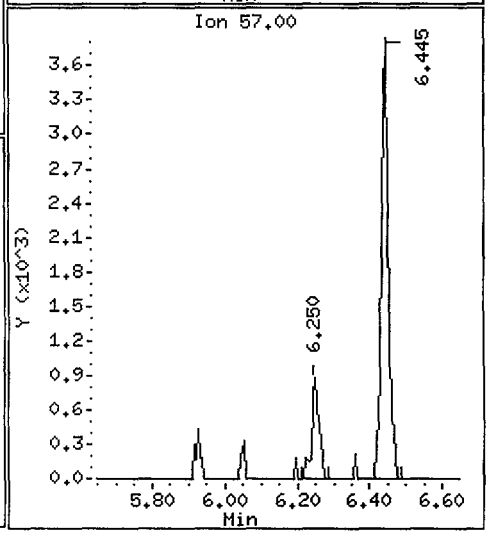












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

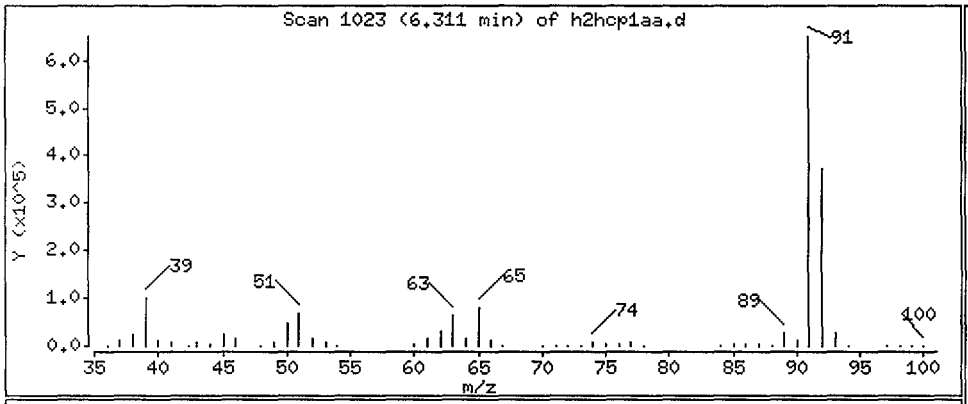
Operator: 22980

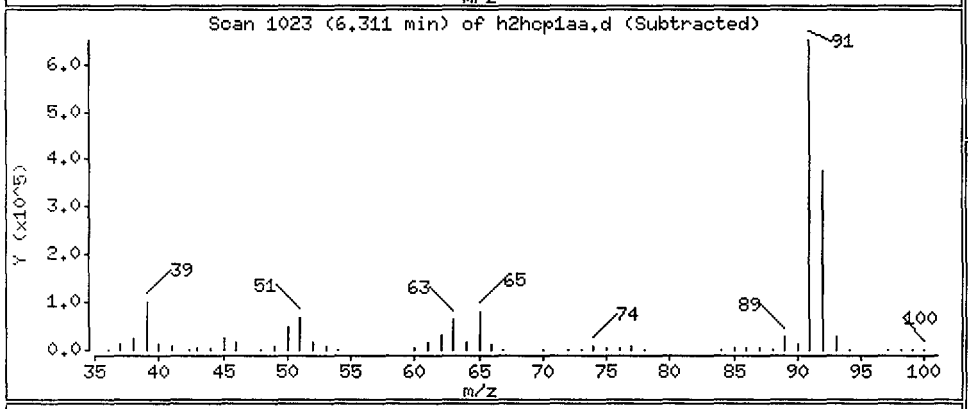
Column phase: J+W 624

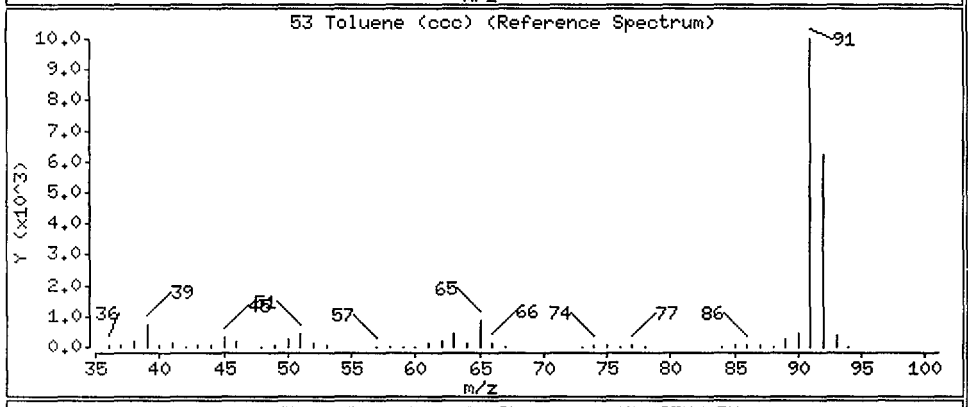
Column diameter: 0.18

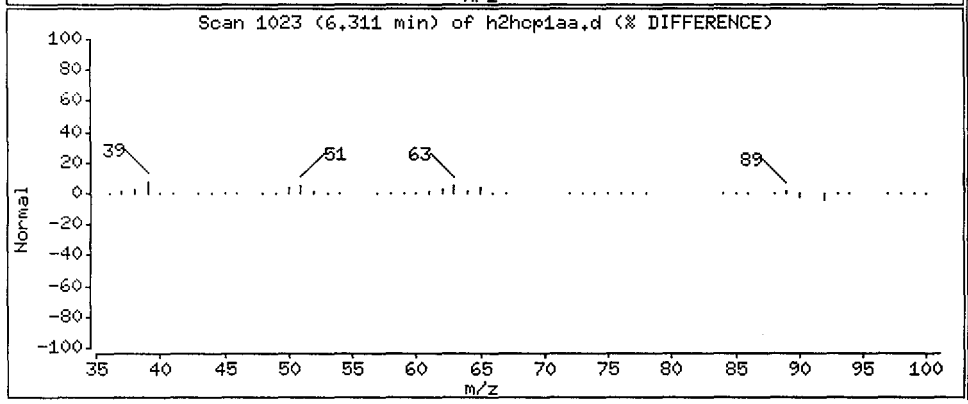
53 Toluene (ccc)

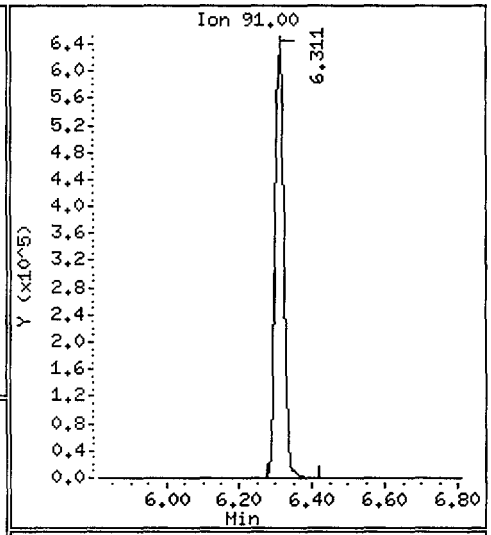
Concentration: 0.18920 ug

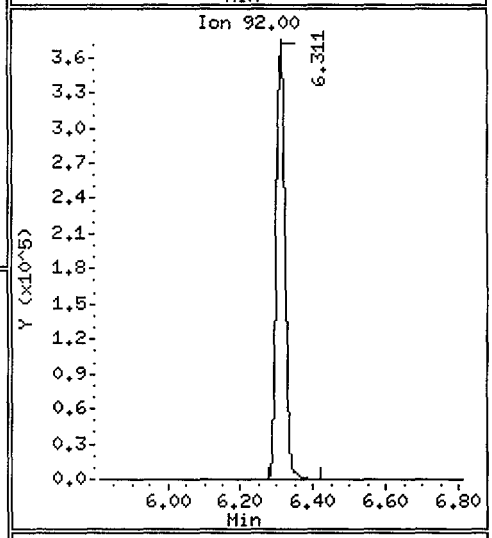


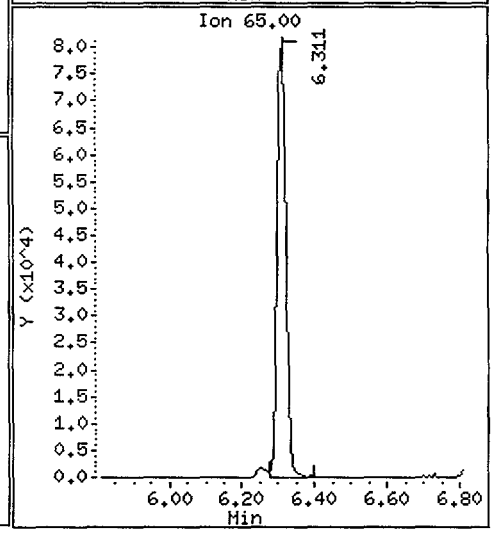












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

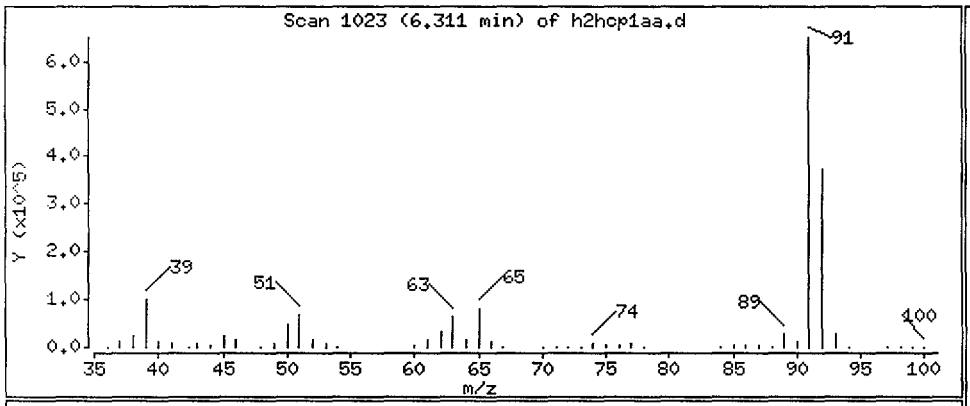
Operator: 22980

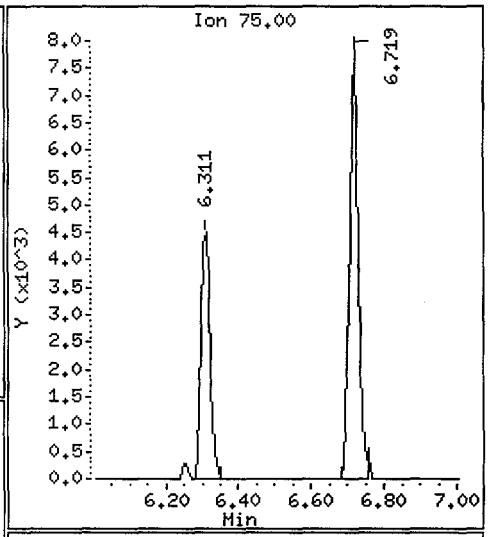
Column phase: J+W 624

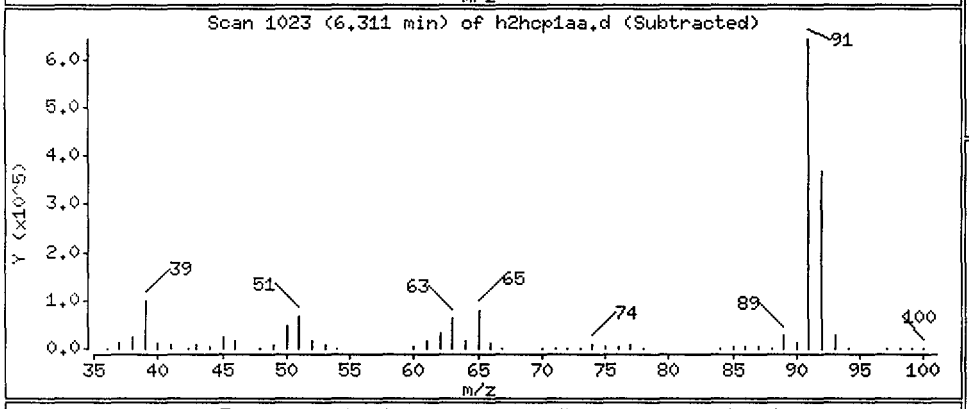
Column diameter: 0.18

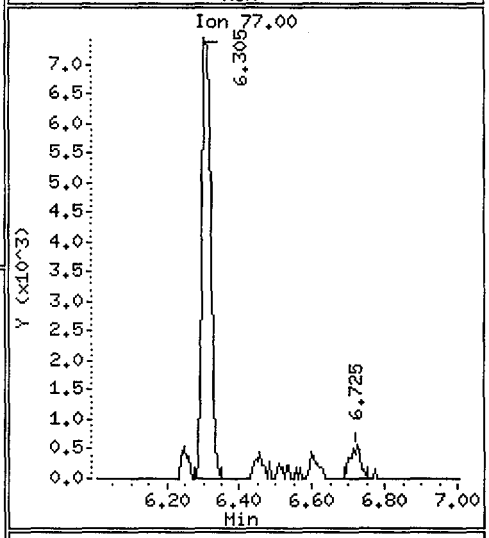
54 trans-1,3-Dichloropropene

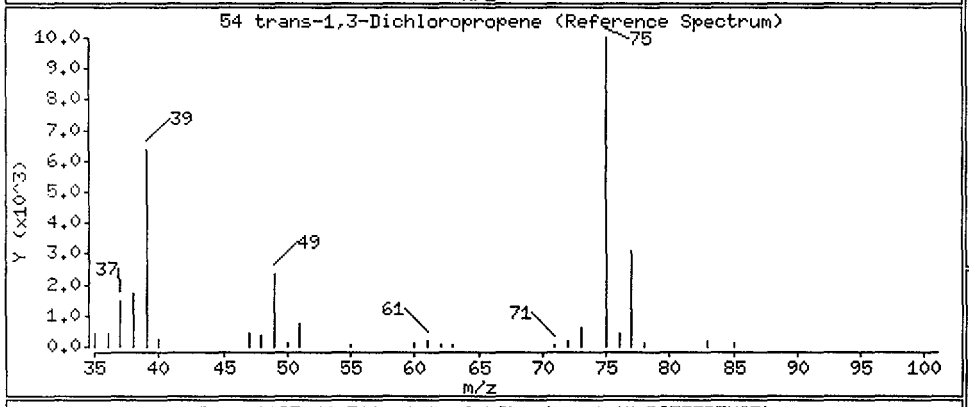
Concentration: 0.0078874 ug

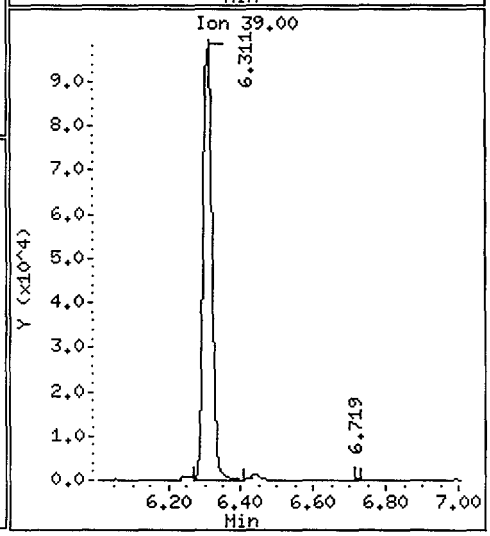


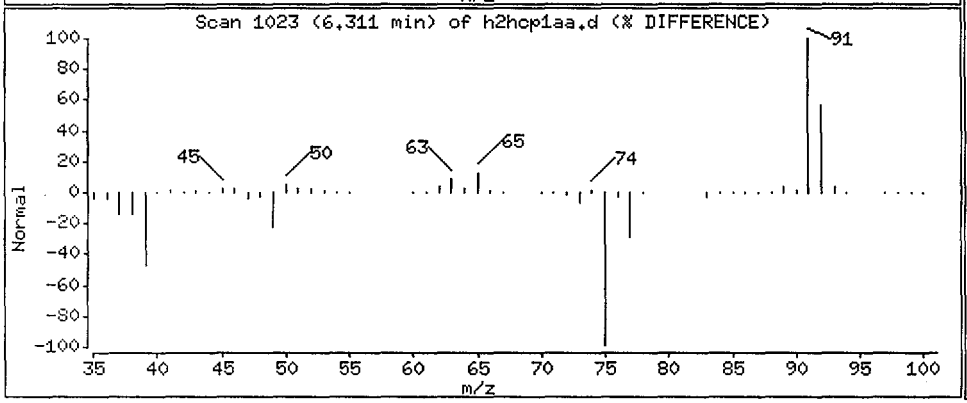












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

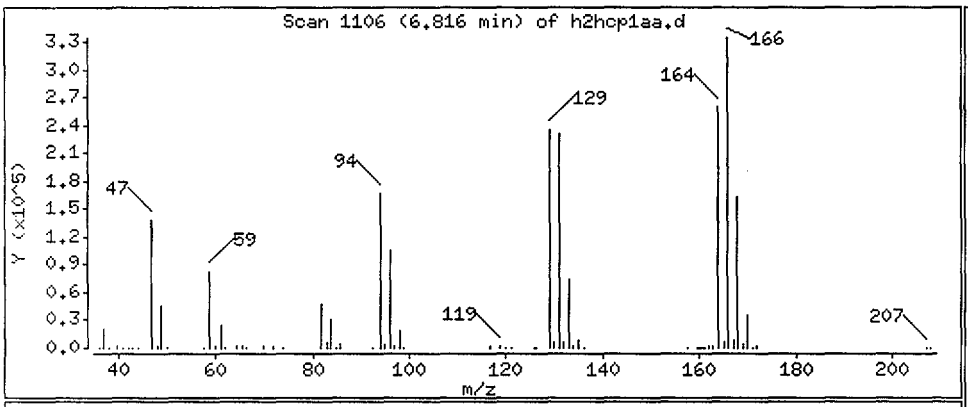
Operator: 22980

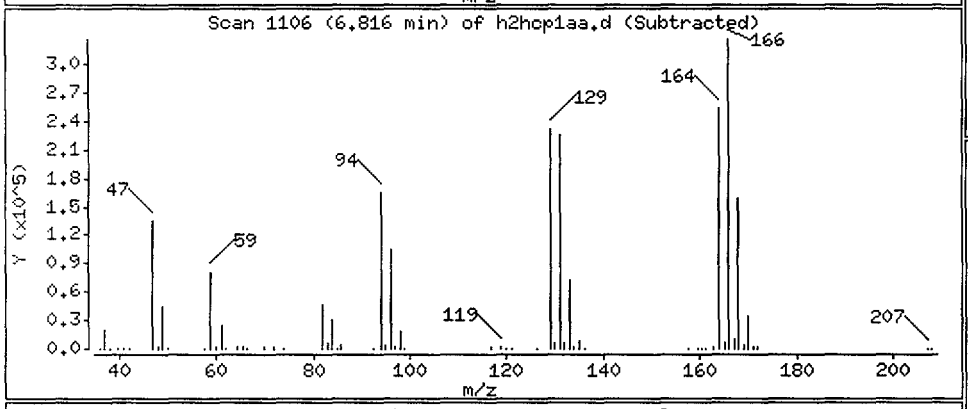
Column phase: J+W 624

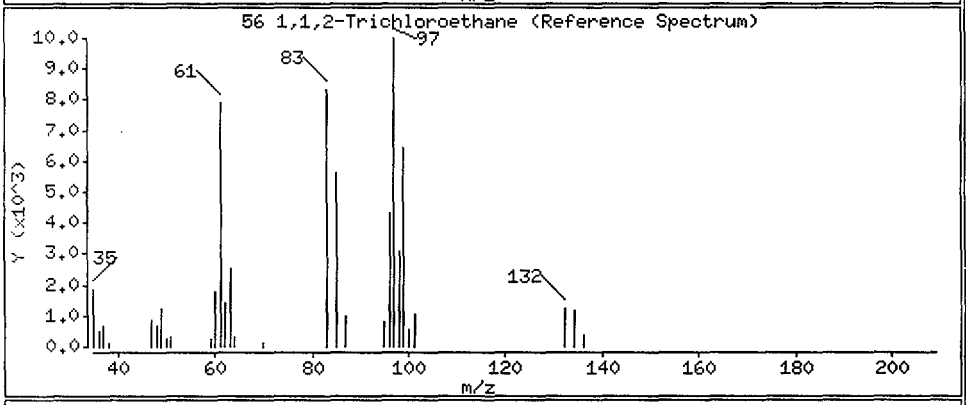
Column diameter: 0.18

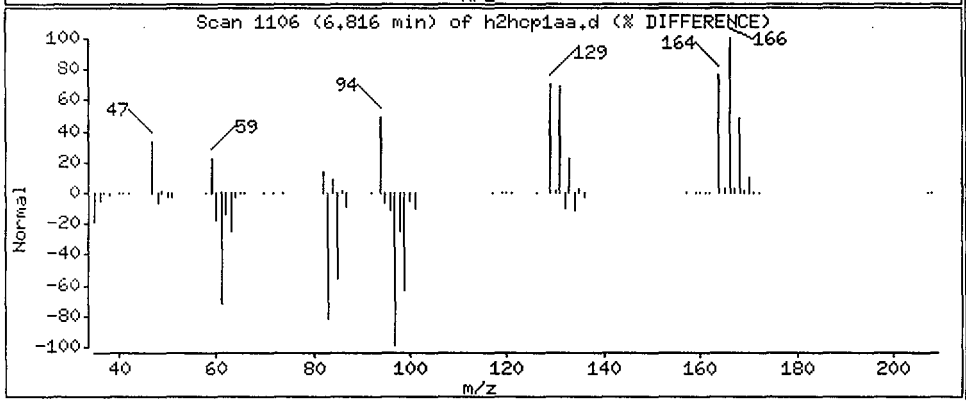
56 1,1,2-Trichloroethane

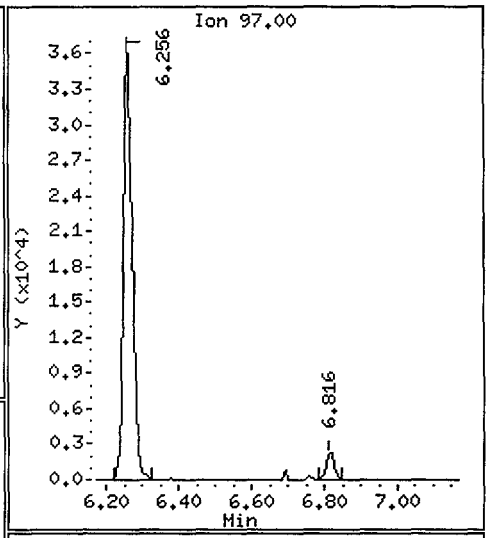
Concentration: 0.0086850 ug

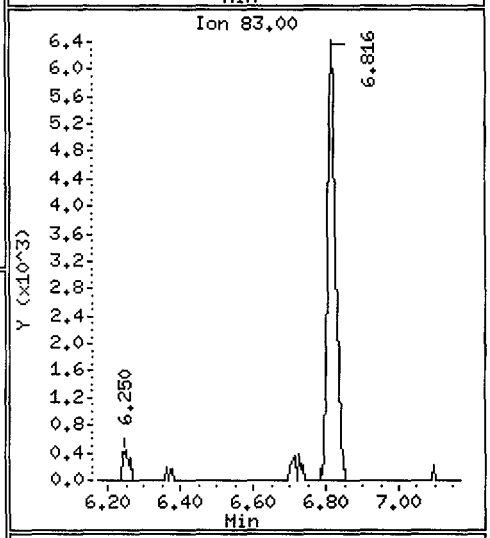


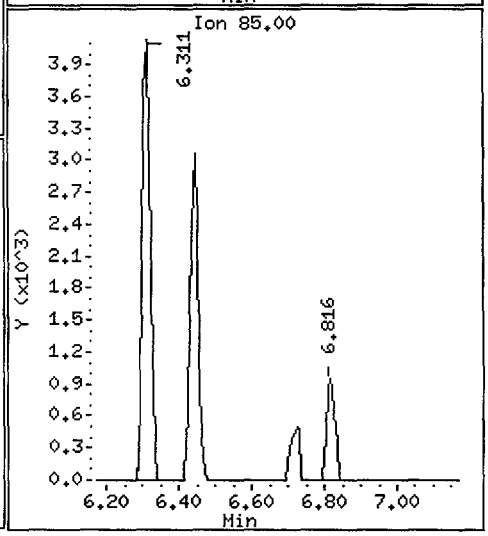












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

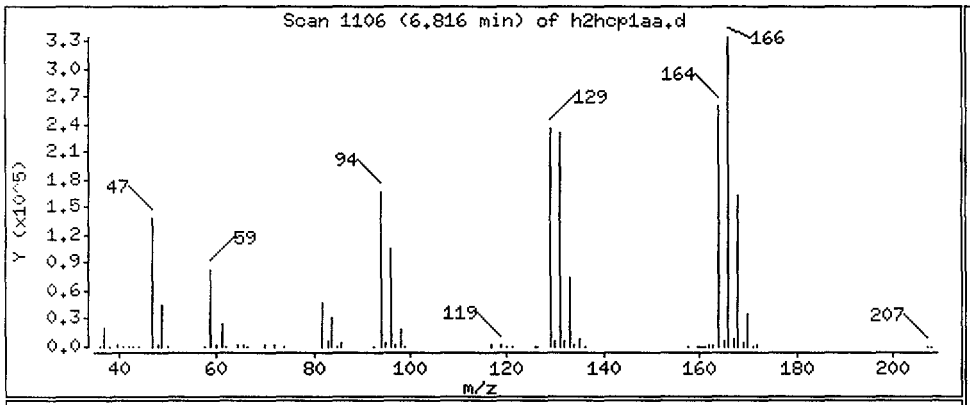
Operator: 22980

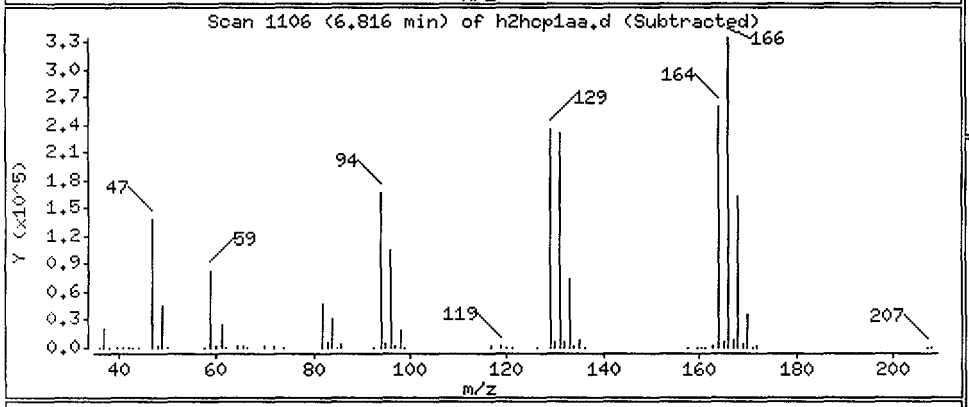
Column phase: J+W 624

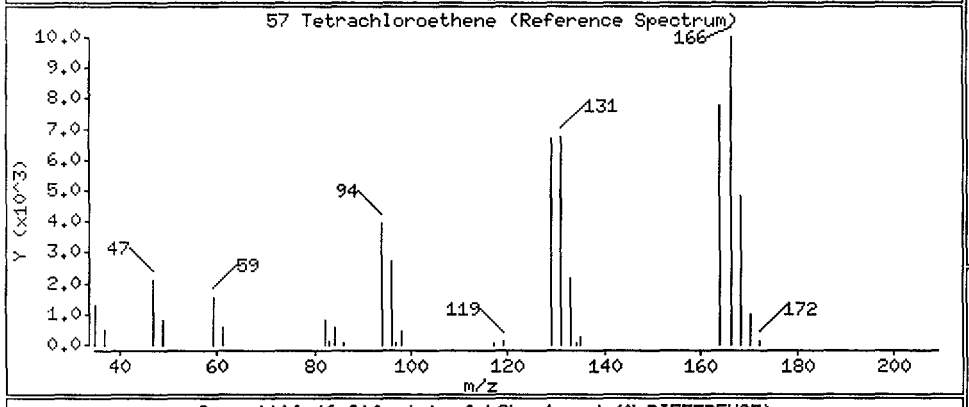
Column diameter: 0.18

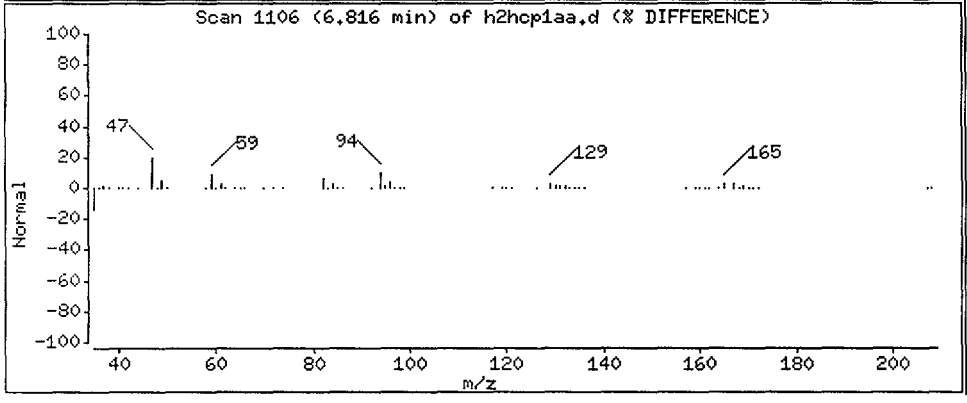
57 Tetrachloroethene

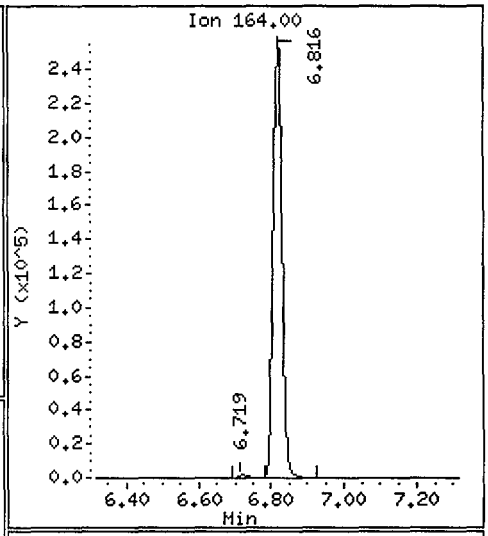
Concentration: 0.36269 ug

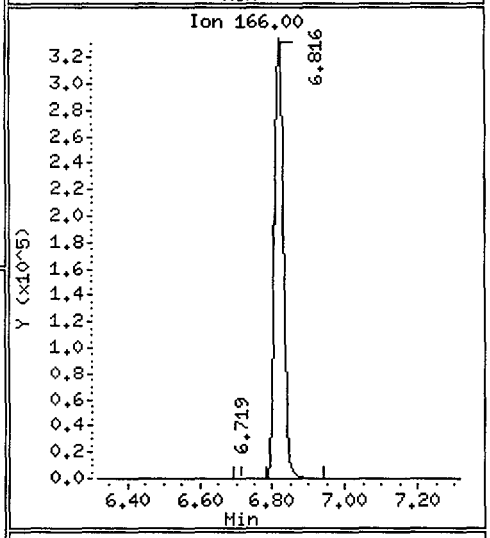


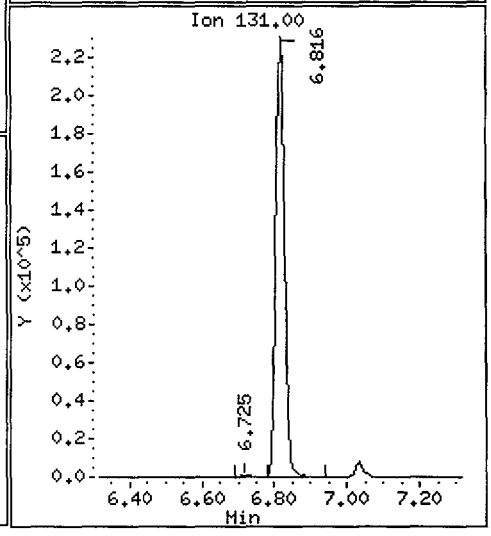












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

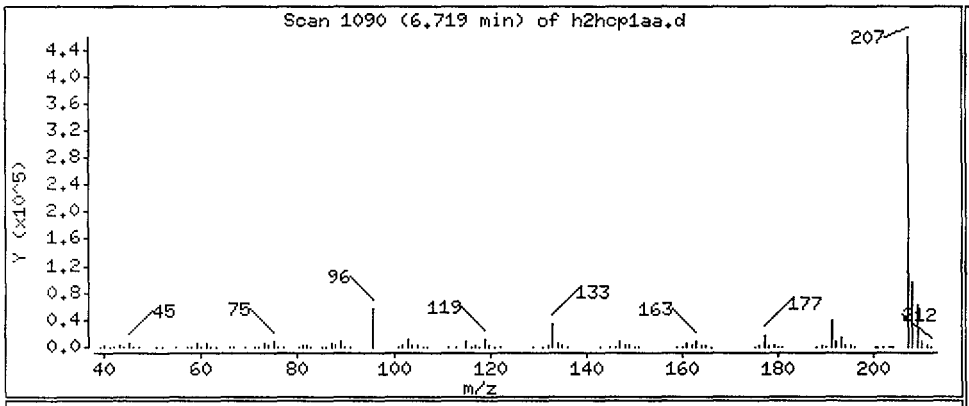
Operator: 22980

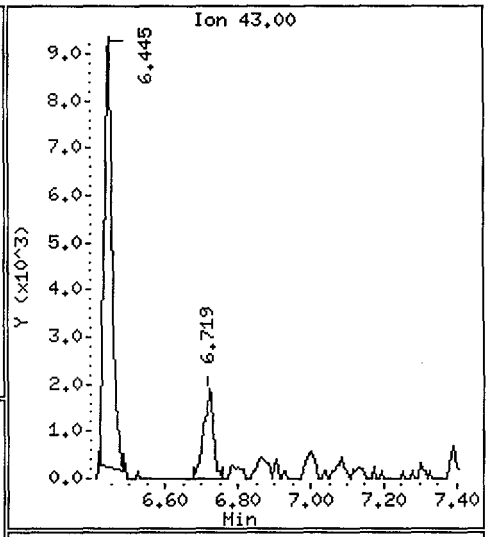
Column phase: J+W 624

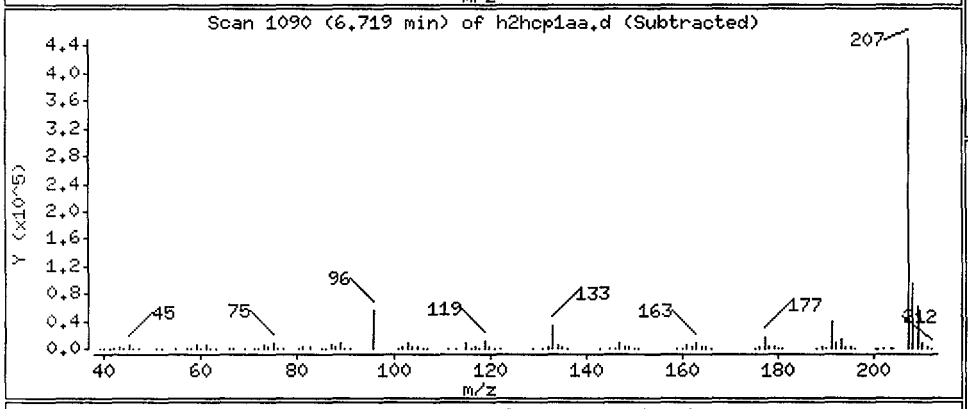
Column diameter: 0.18

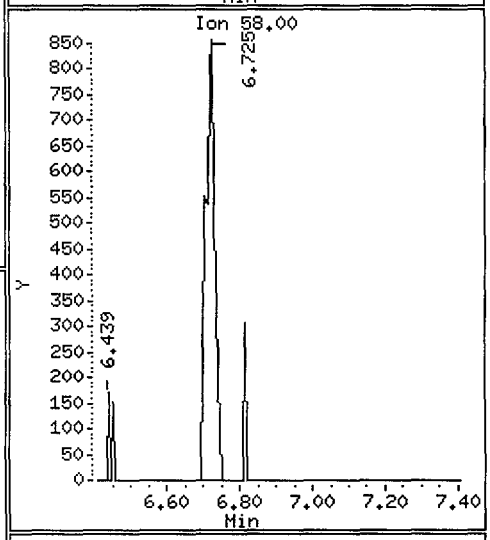
59 2-Hexanone

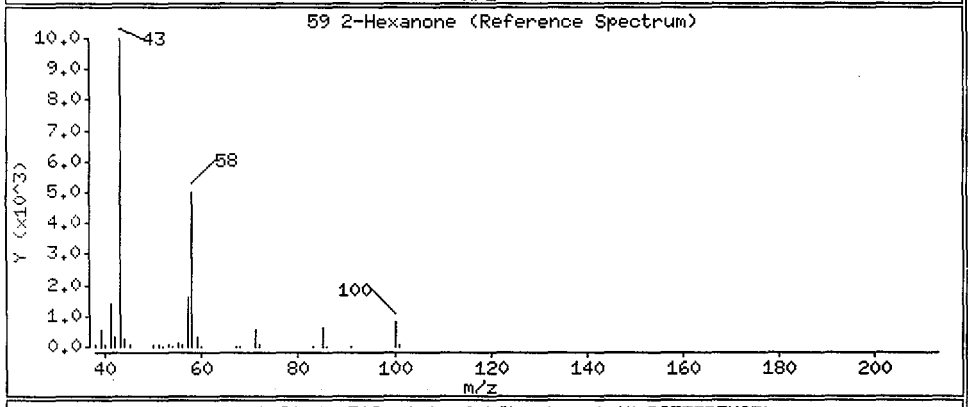
Concentration: 0.019269 ug

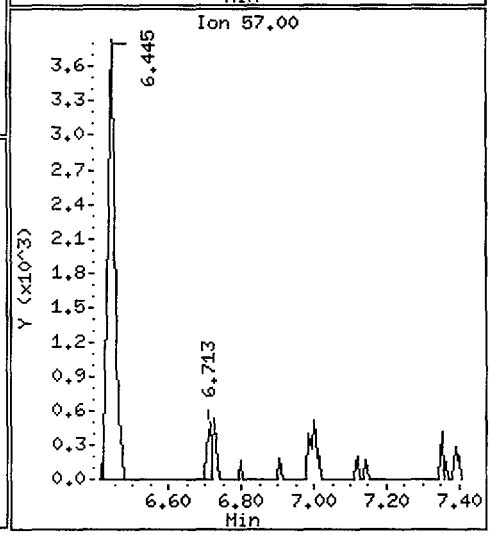


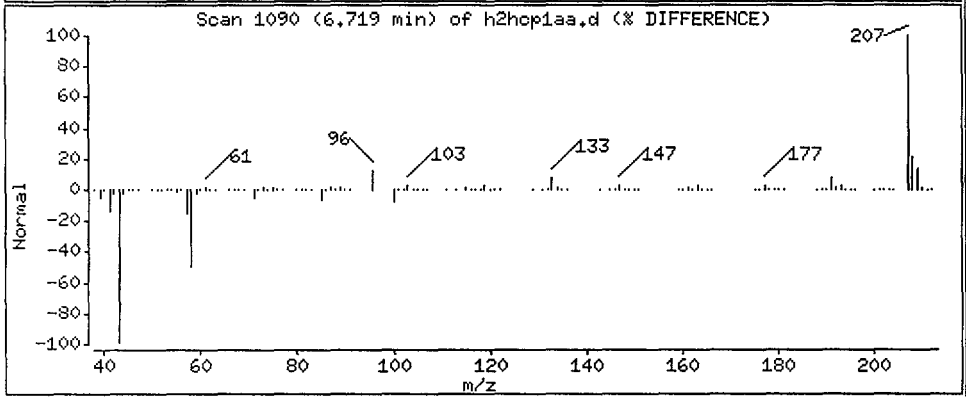












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

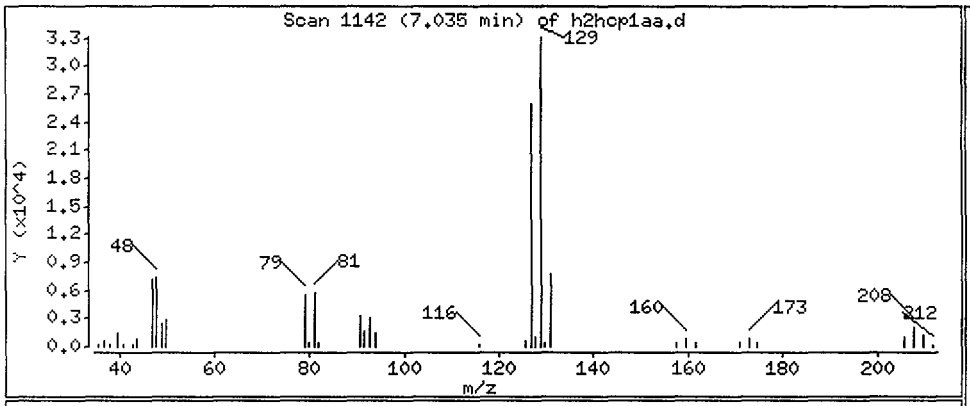
Operator: 22980

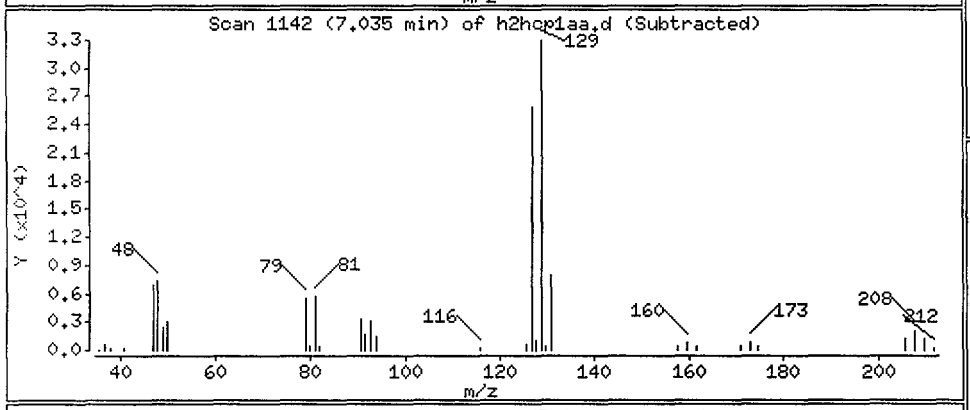
Column phase: J+W 624

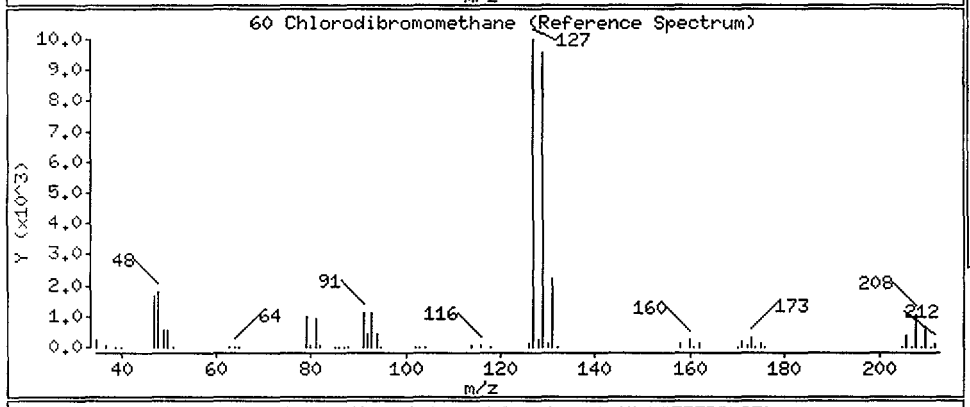
Column diameter: 0.18

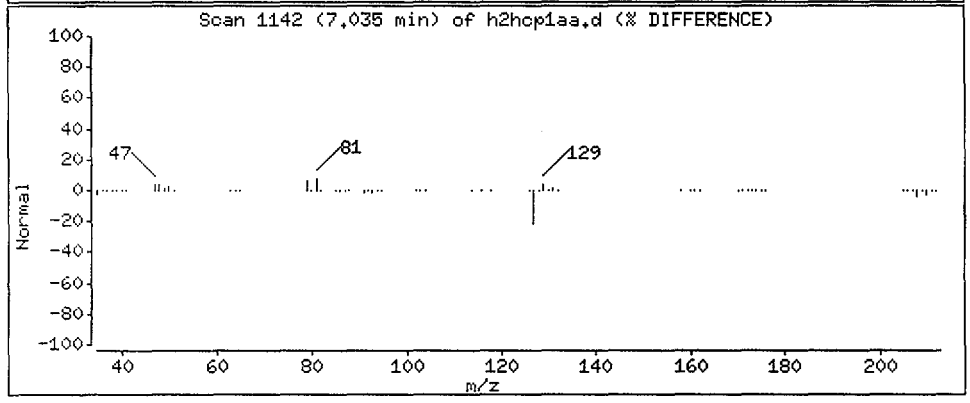
60 Chlorodibromomethane

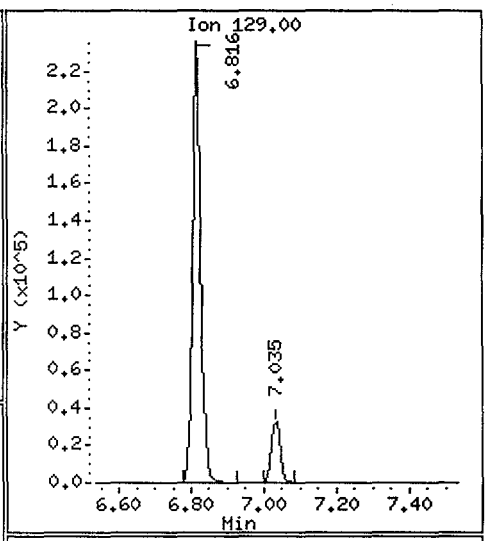
Concentration: 0.10310 ug

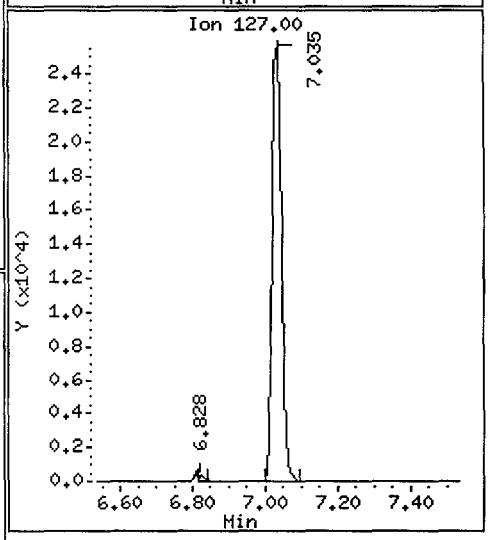












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

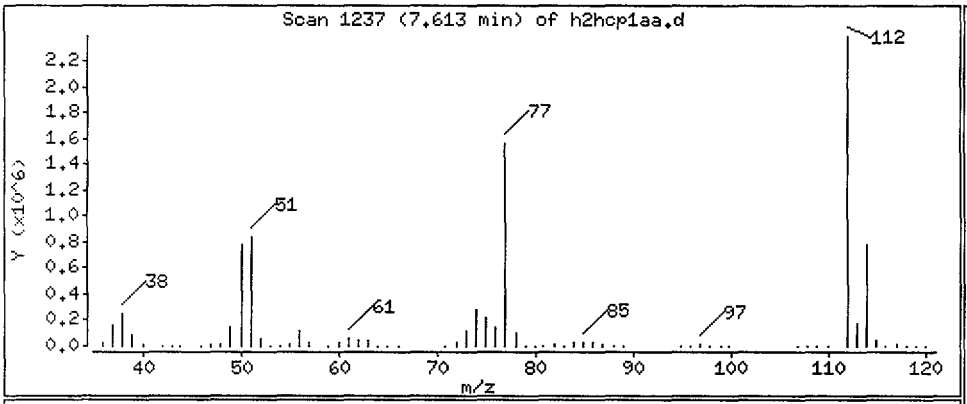
Operator: 22980

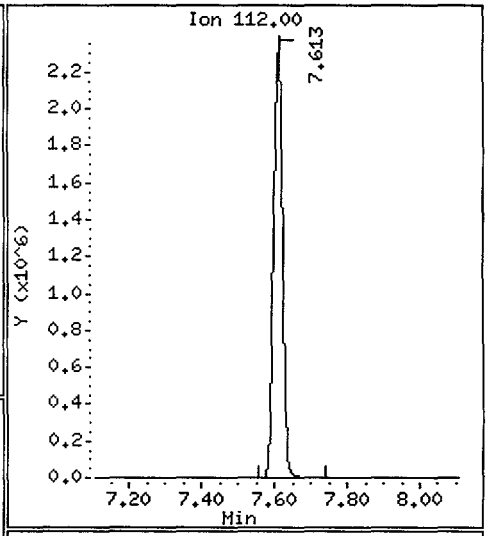
Column phase: J+W 624

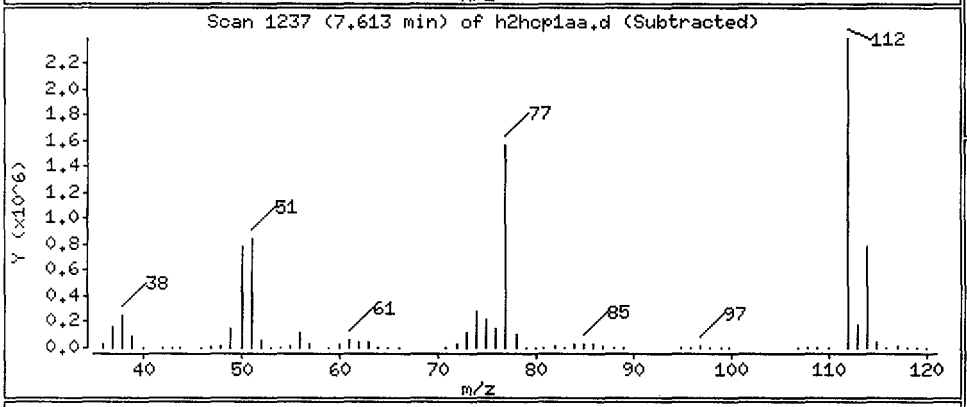
Column diameter: 0.18

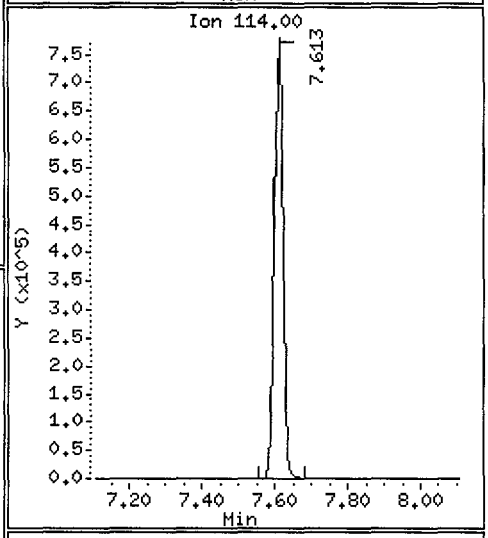
62 Chlorobenzene (spcc)

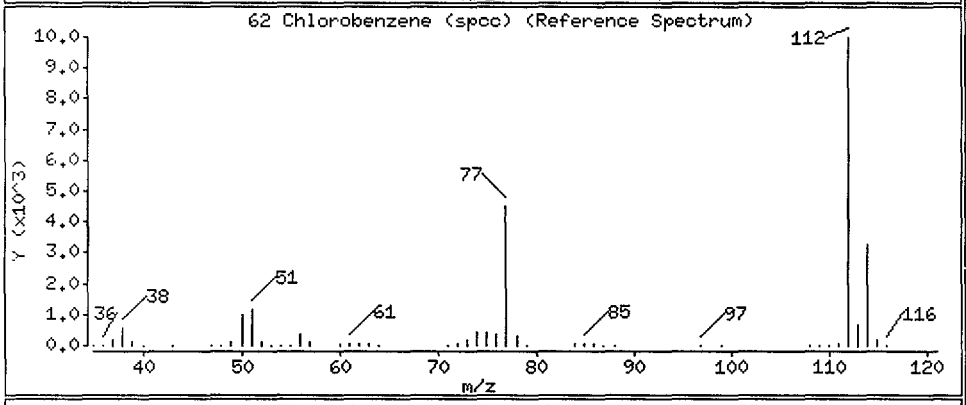
Concentration: 1.4092 ug

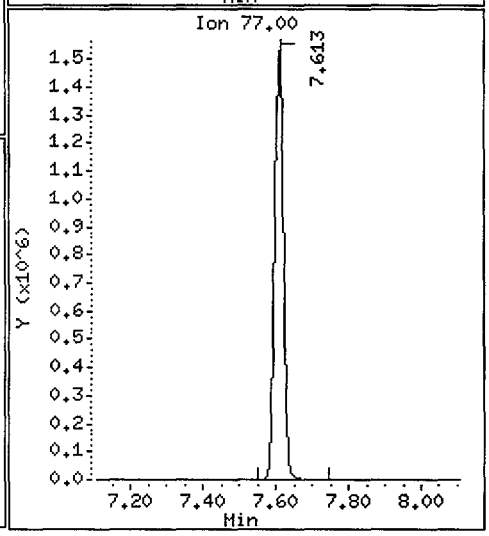


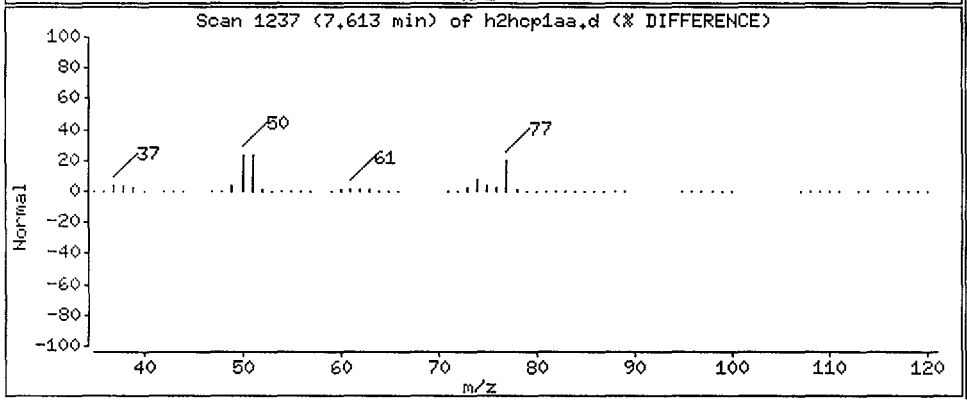












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

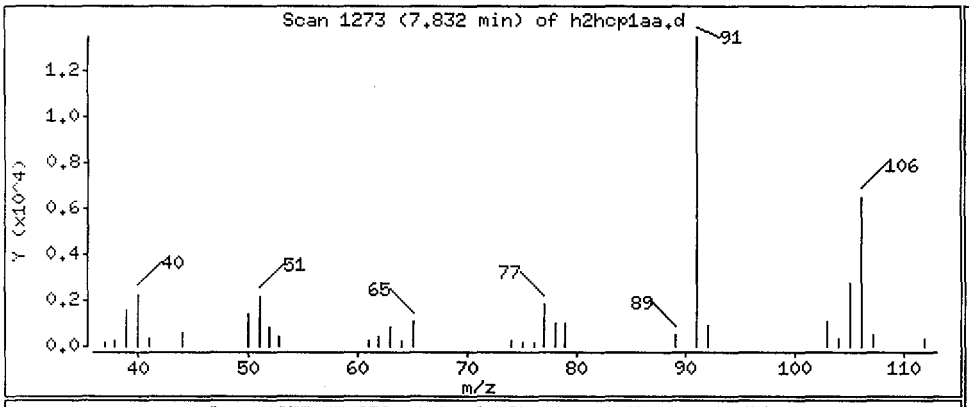
Operator: 22980

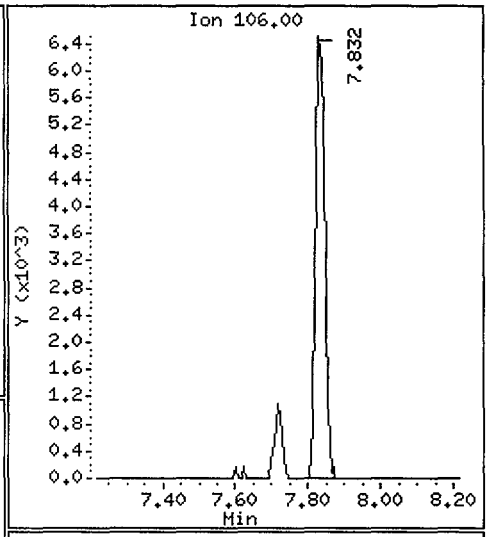
Column phase: J+W 624

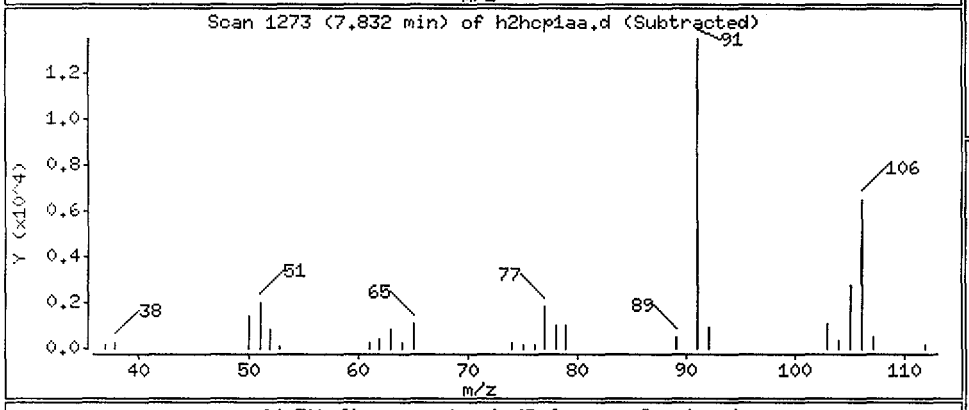
Column diameter: 0.18

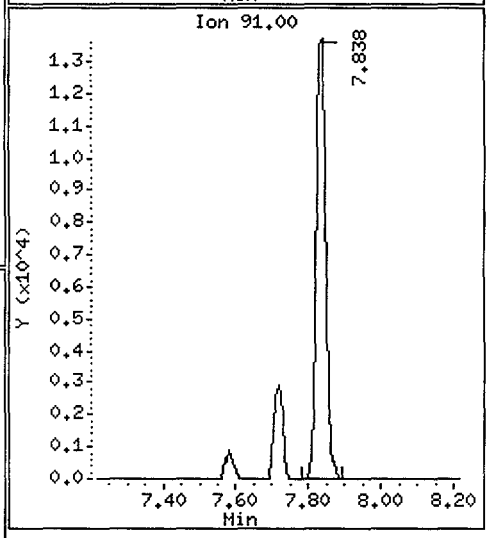
64 Ethylbenzene (ccc)

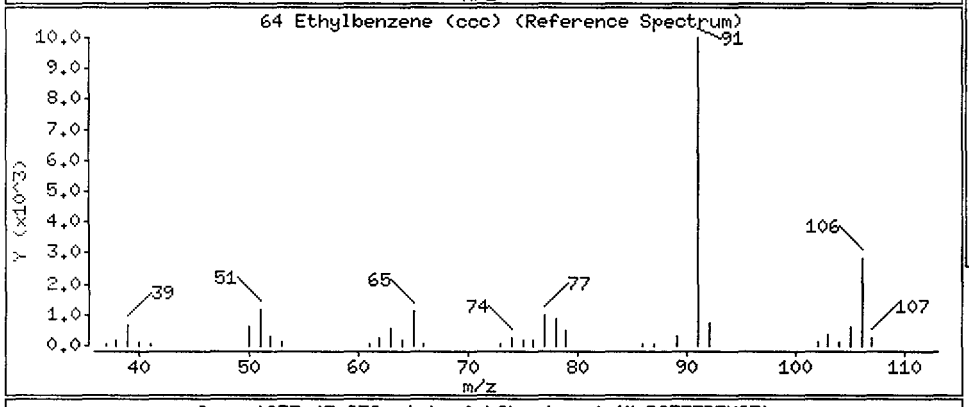
Concentration: 0.0057591 ug

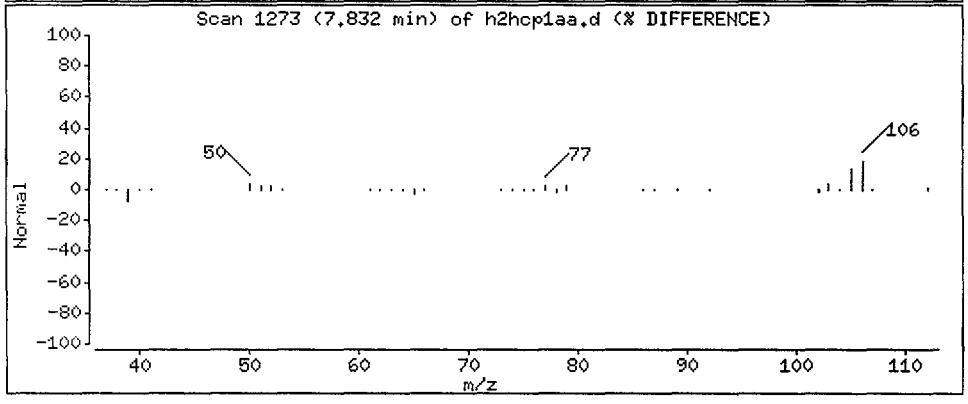












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

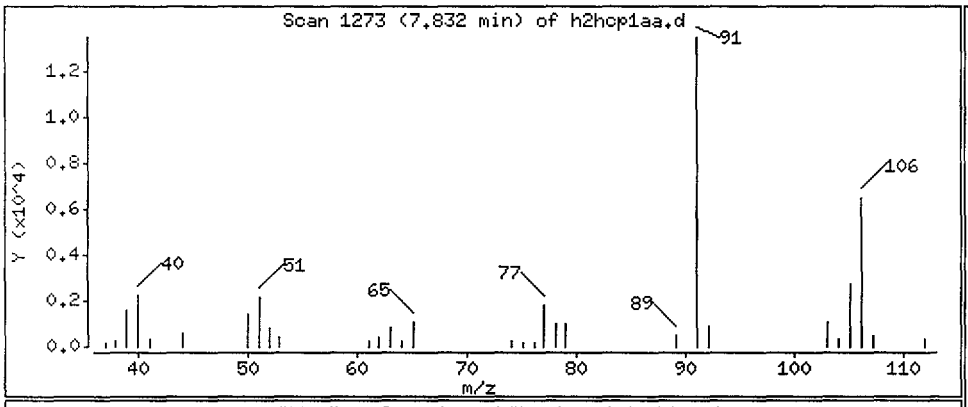
Operator: 22980

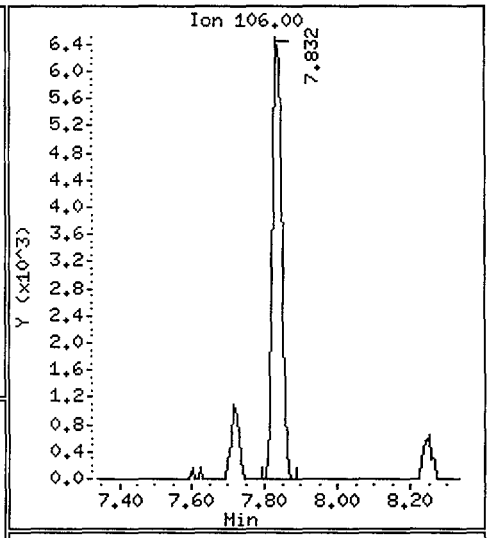
Column phase: J+W 624

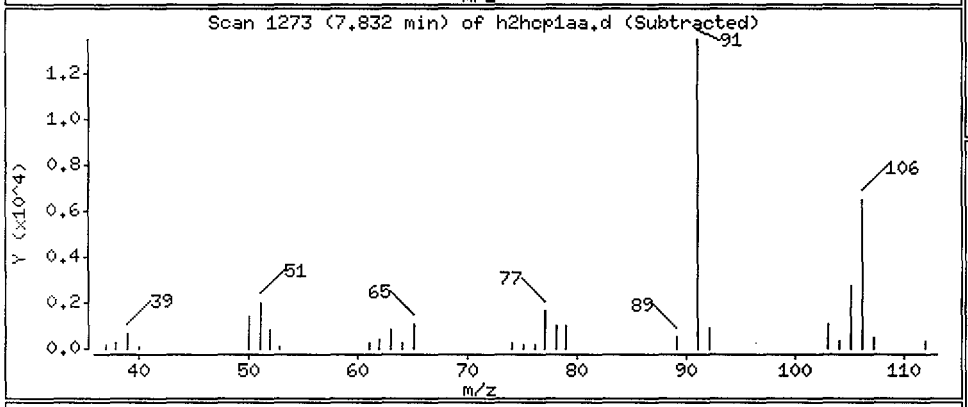
Column diameter: 0.18

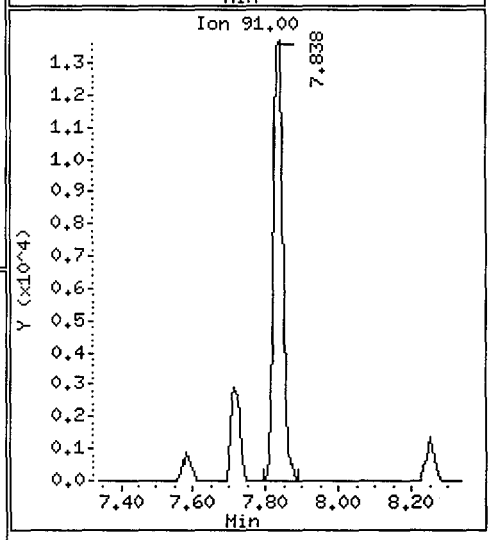
65 m&p-Xylene

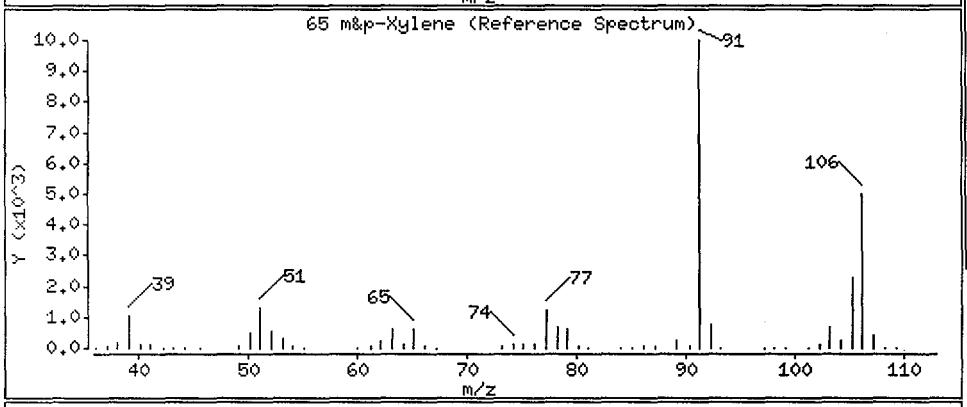
Concentration: 0.0049141 ug

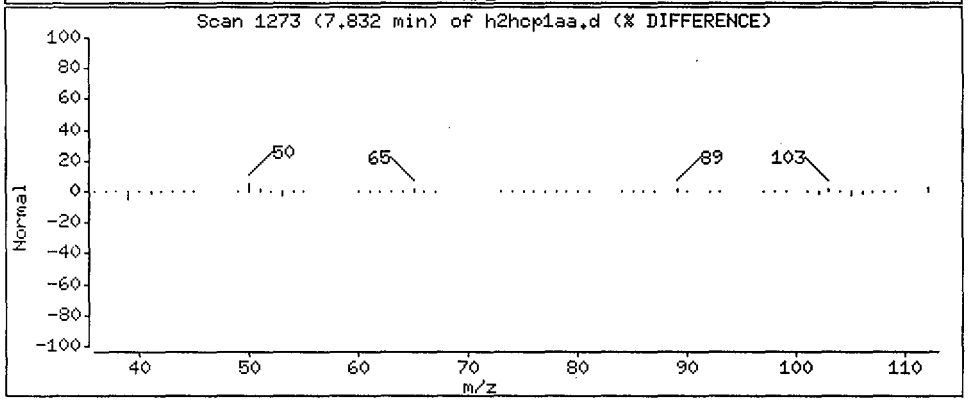












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

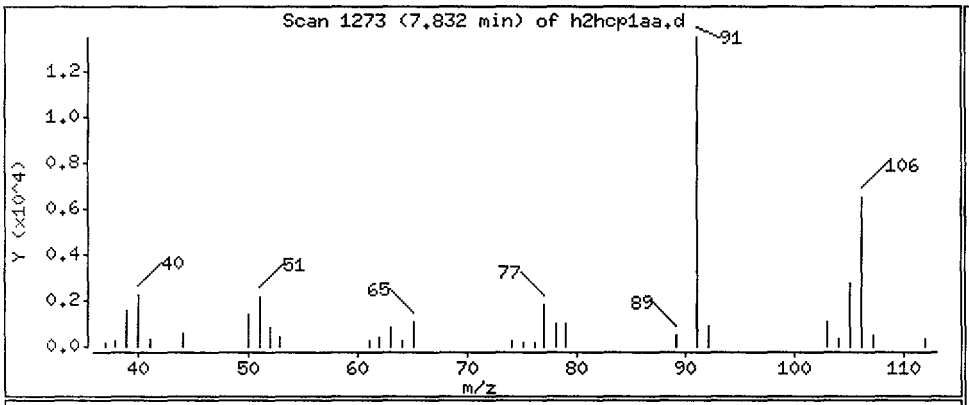
Operator: 22980

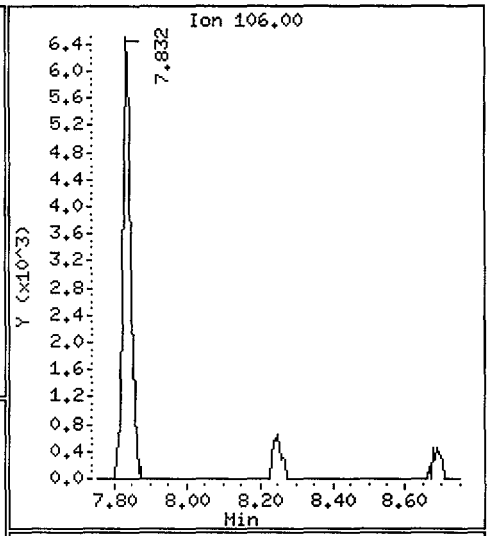
Column phase: J+W 624

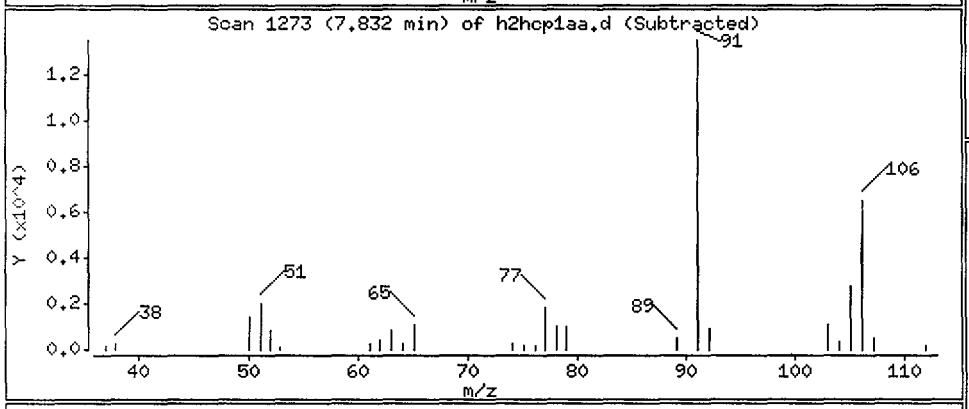
Column diameter: 0.18

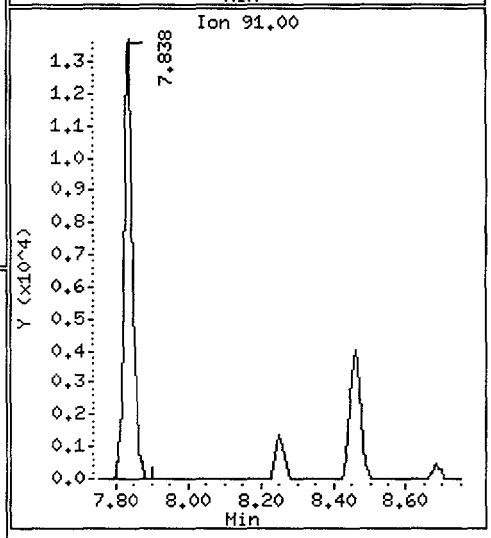
66 o-Xylene

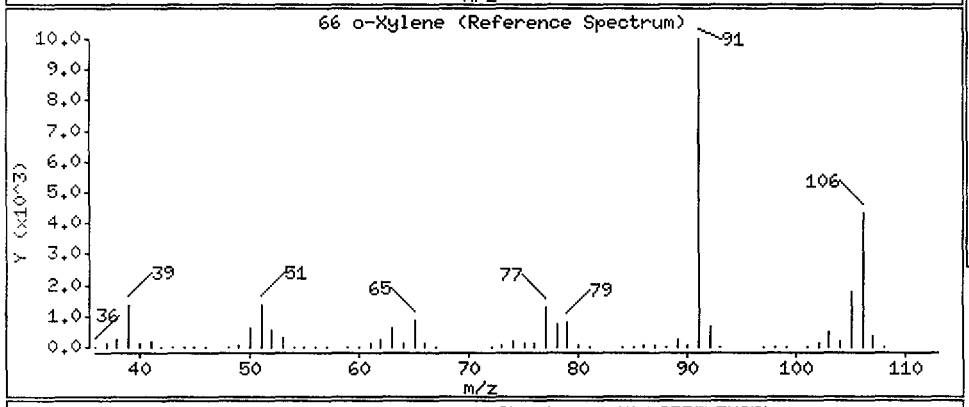
Concentration: 0.0057321 ug

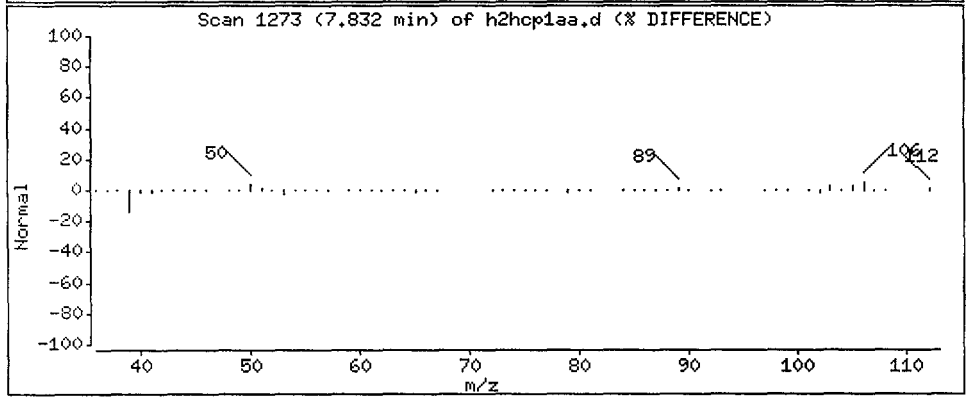












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

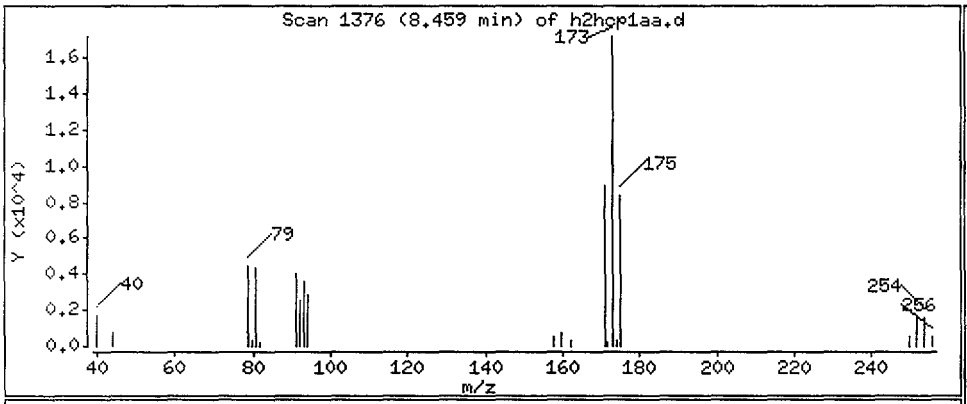
Operator: 22980

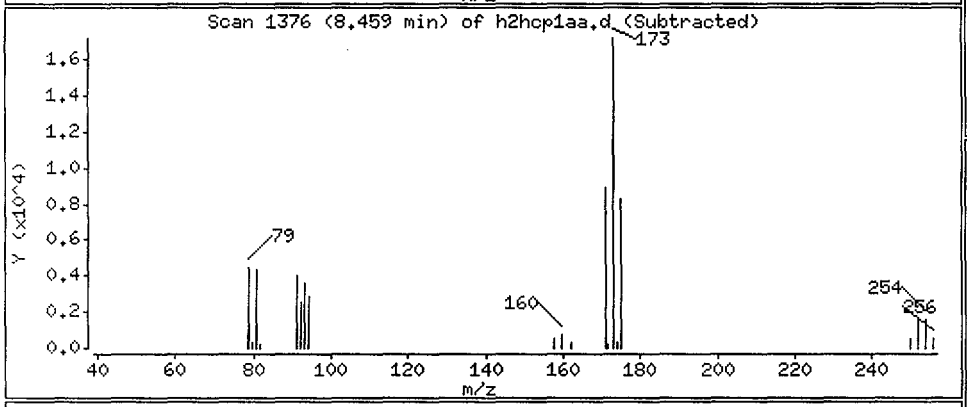
Column phase: J+W 624

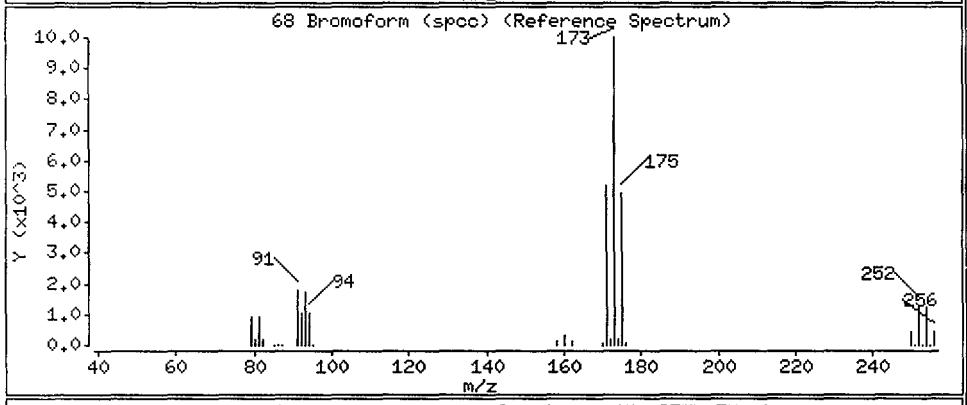
Column diameter: 0.18

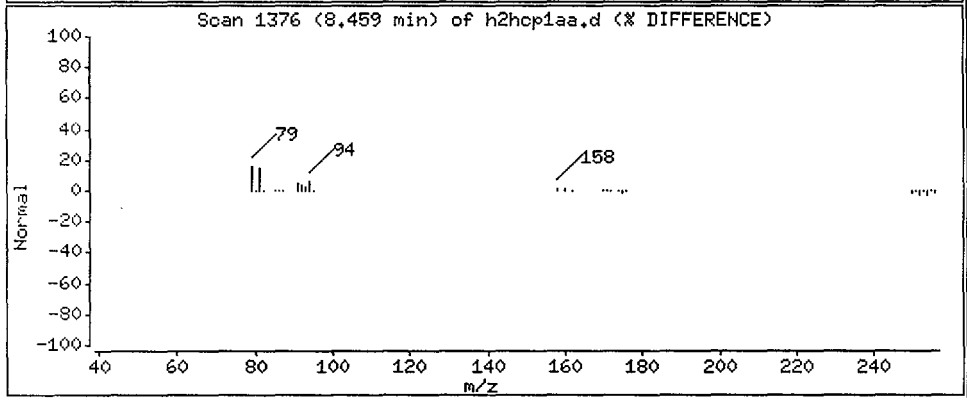
68 Bromoform (spcc)

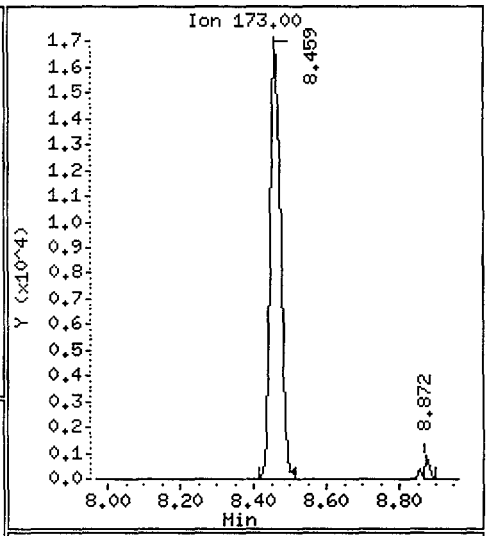
Concentration: 0.13033 ug

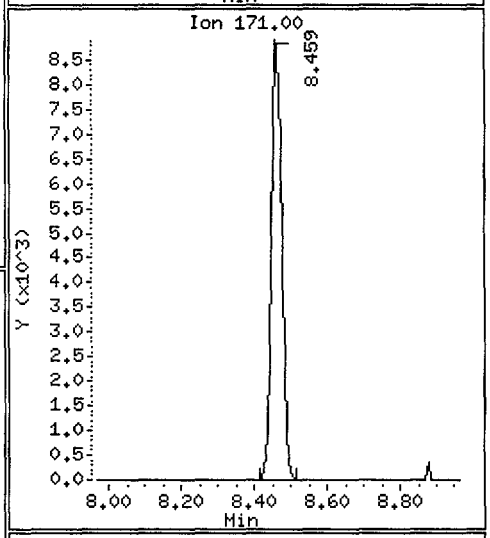


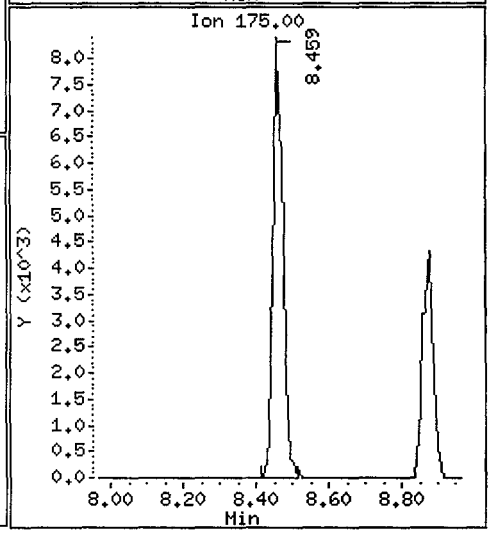












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

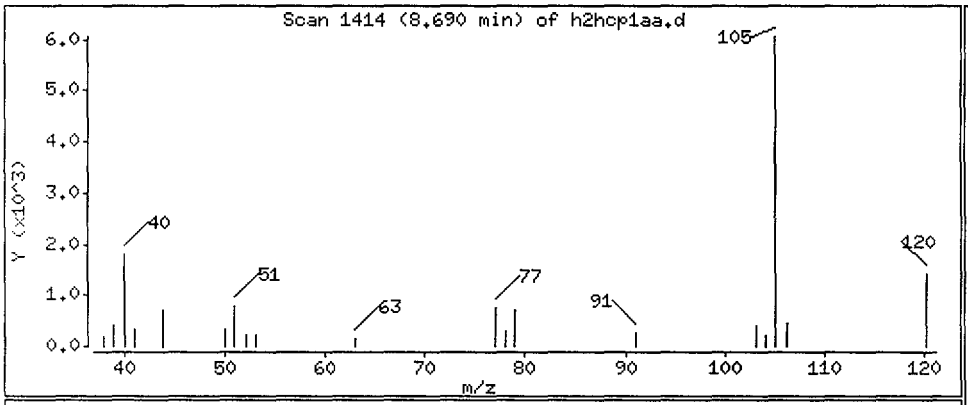
Operator: 22980

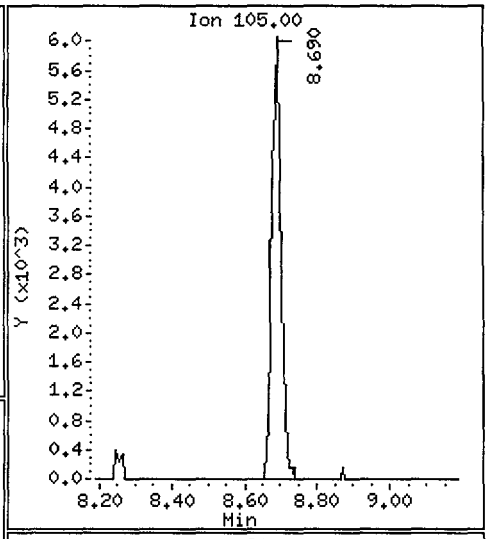
Column phase: J+W 624

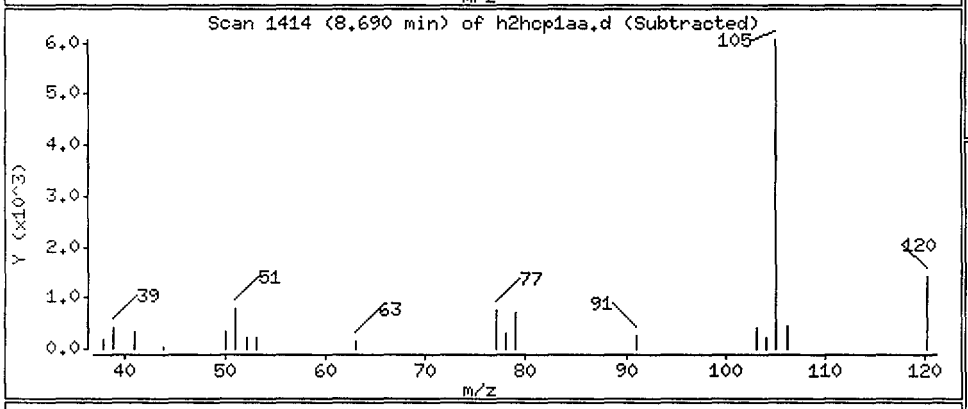
Column diameter: 0.18

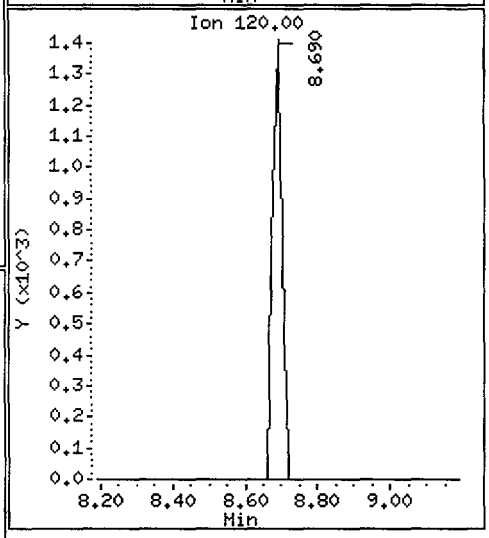
69 Isopropylbenzene

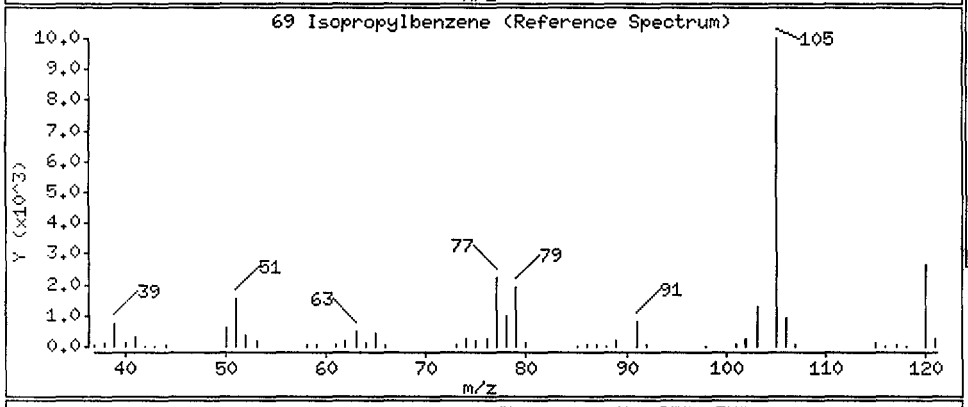
Concentration: 0.0016768 ug

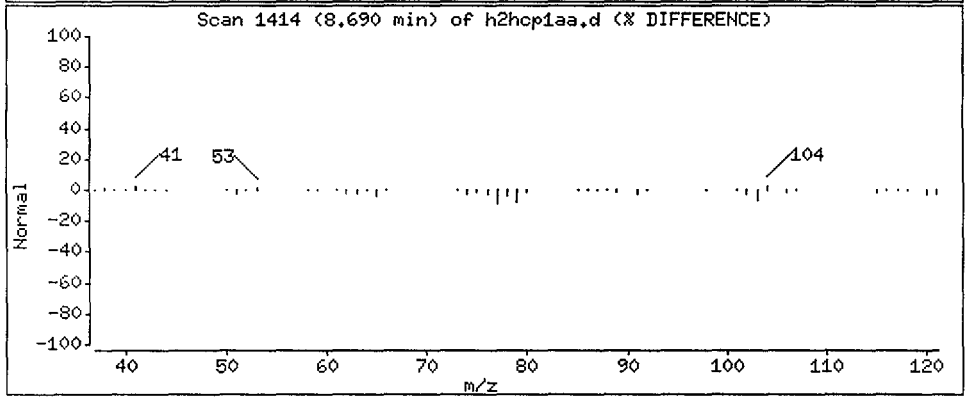












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

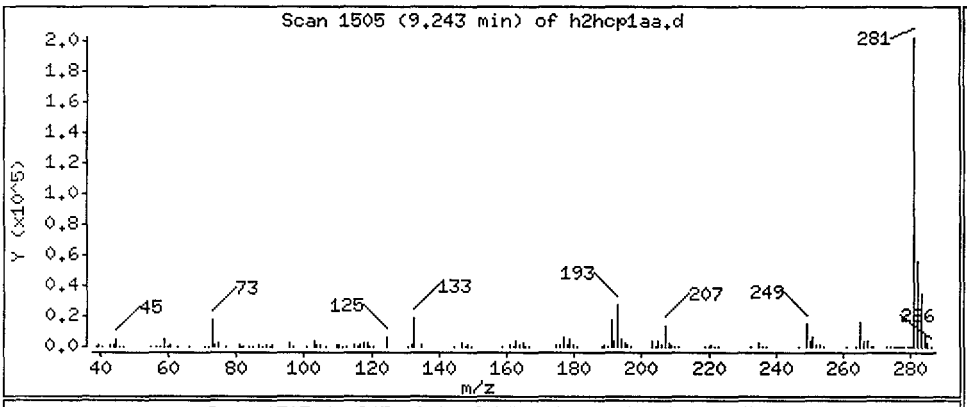
Operator: 22980

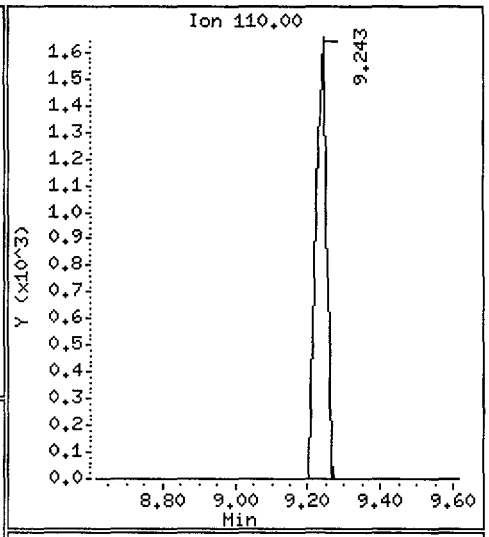
Column phase: J+W 624

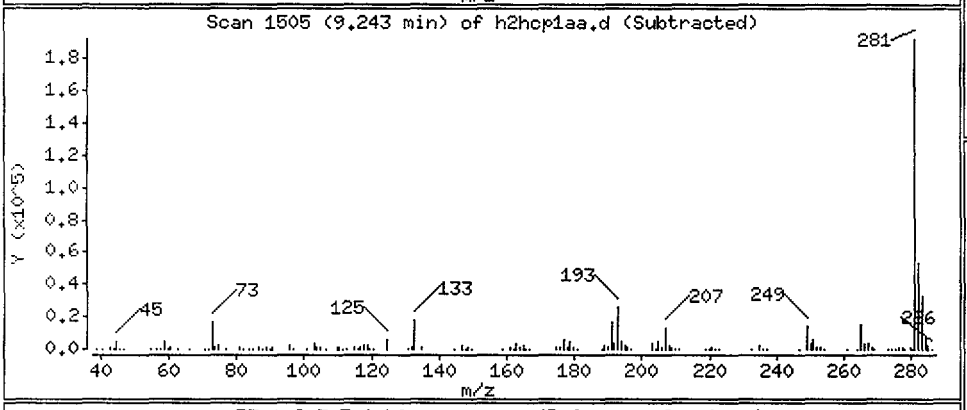
Column diameter: 0.18

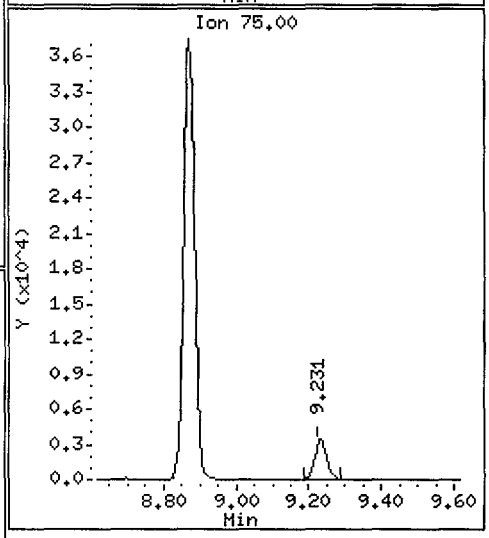
73 1,2,3-Trichloropropane

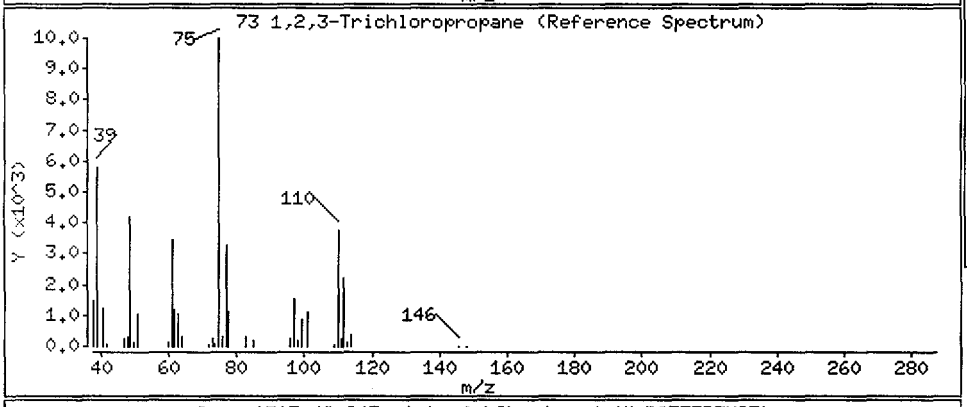
Concentration: 0.037085 ug

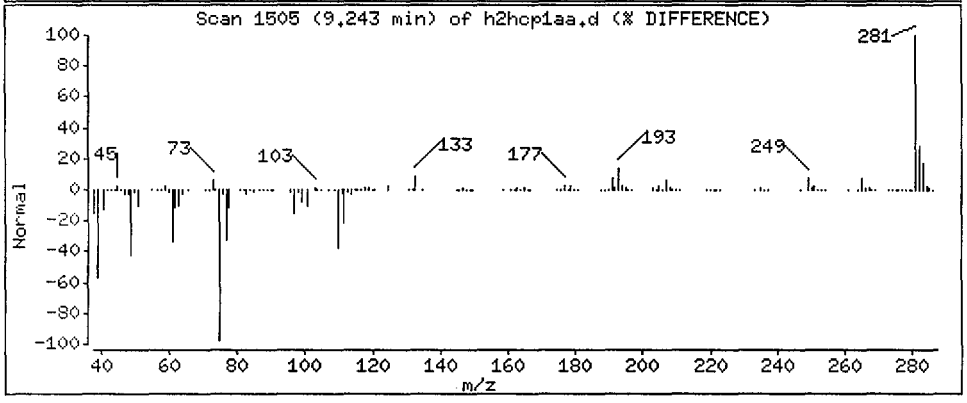












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

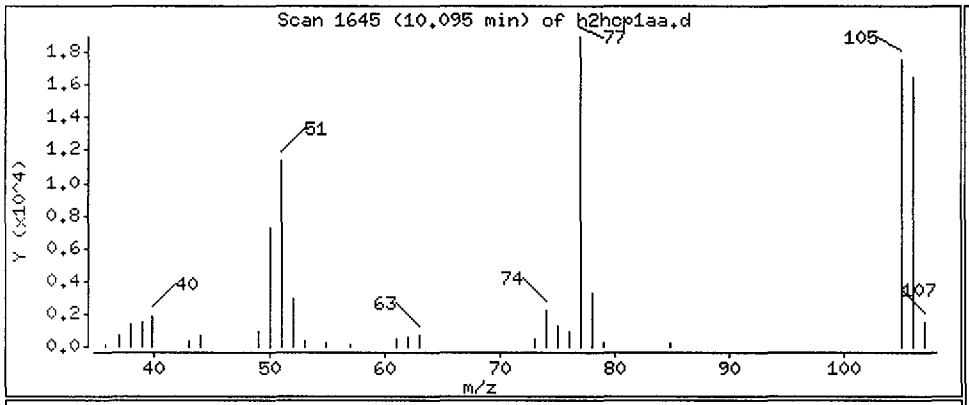
Operator: 22980

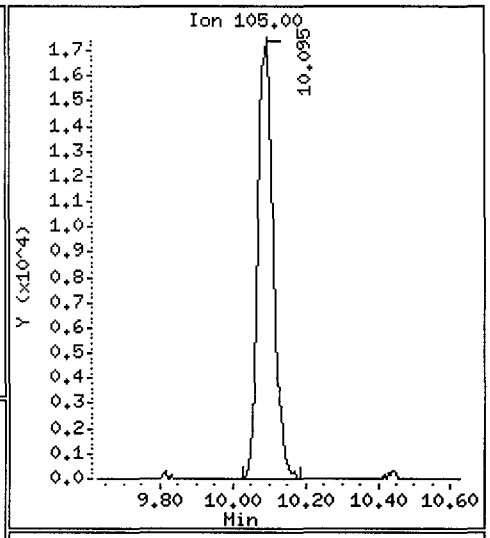
Column phase: J+W 624

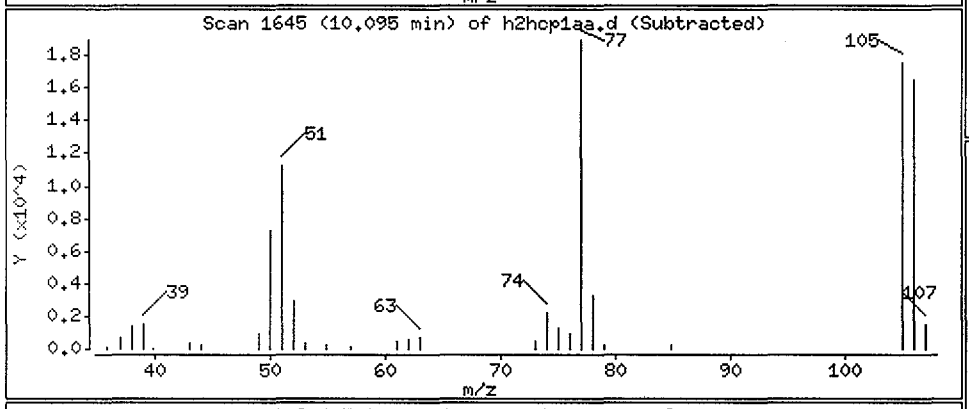
Column diameter: 0.18

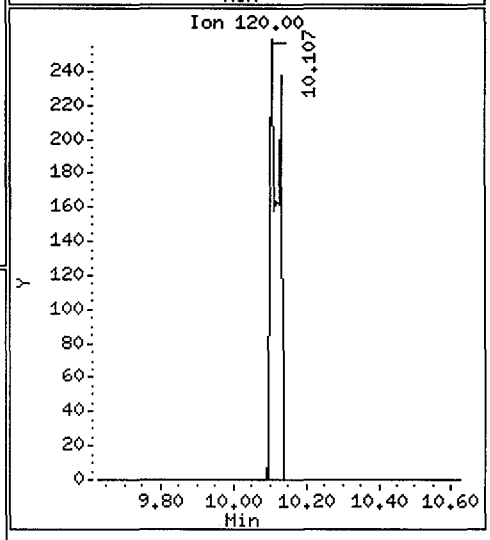
80 1,2,4-Trimethylbenzene

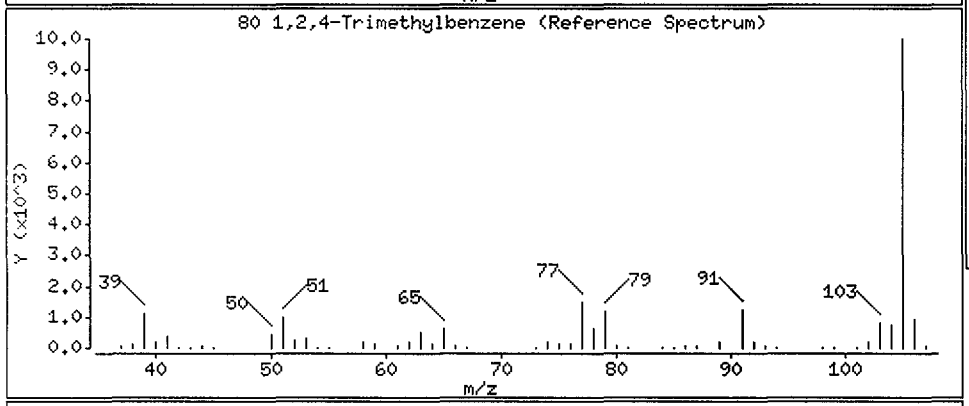
Concentration: 0.016311 ug

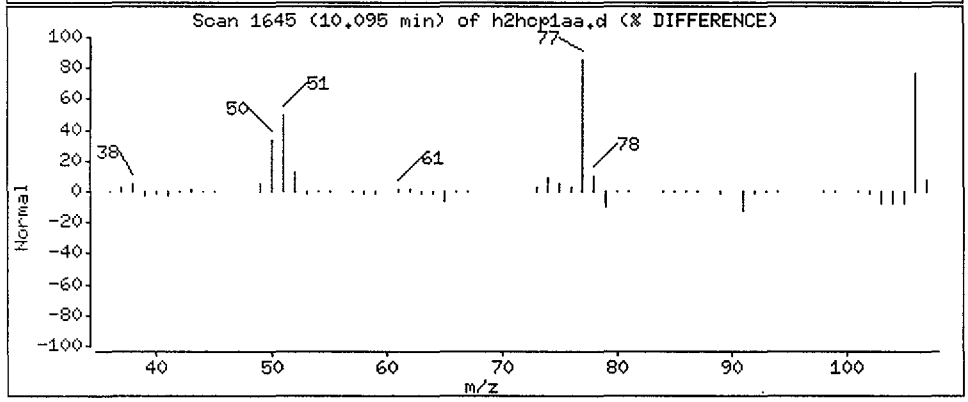












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

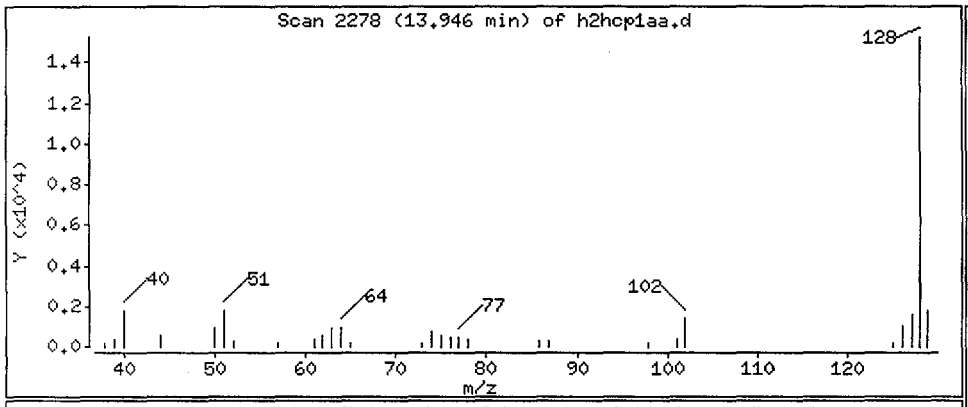
Operator: 22980

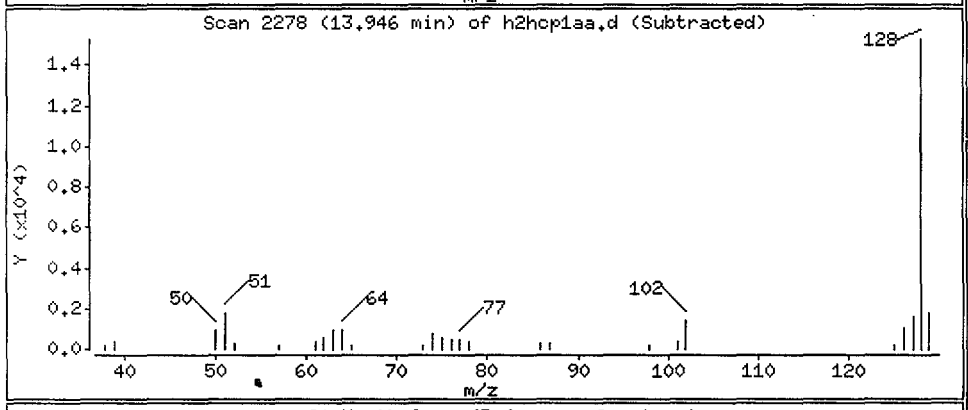
Column phase: J+W 624

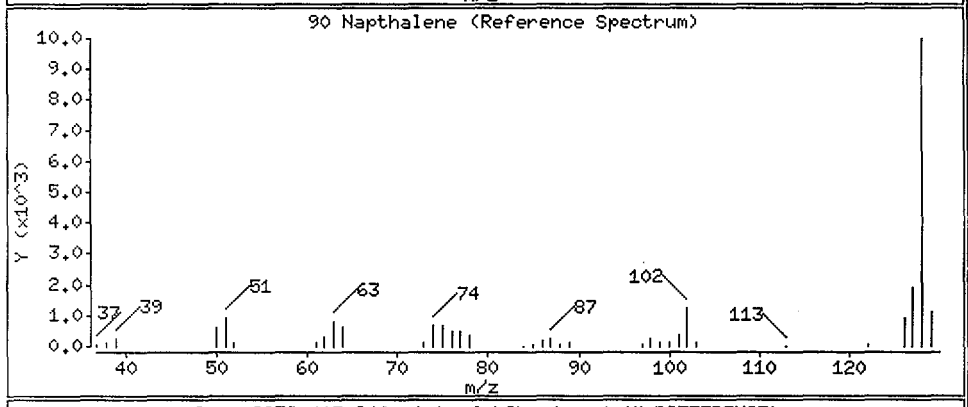
Column diameter: 0.18

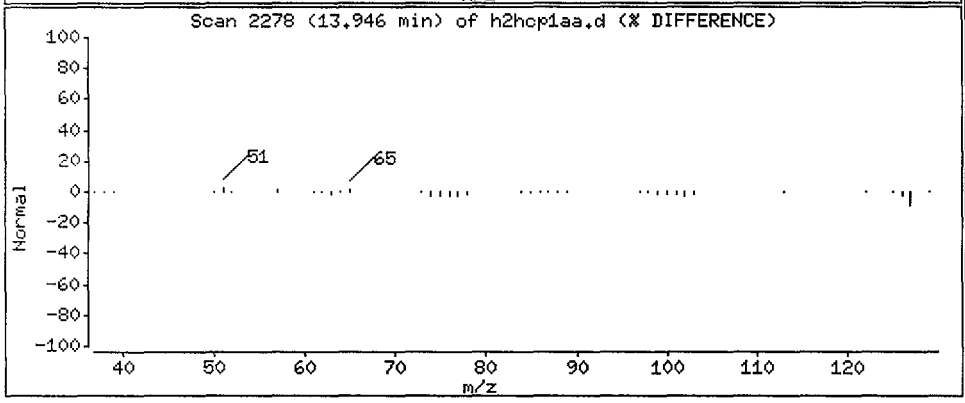
90 Napthalene

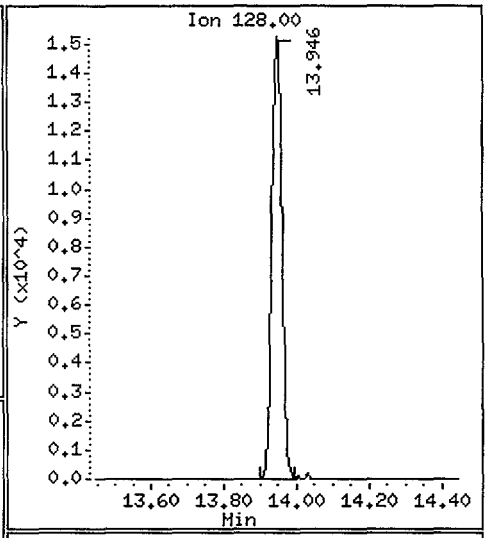
Concentration: 0.068518 ug

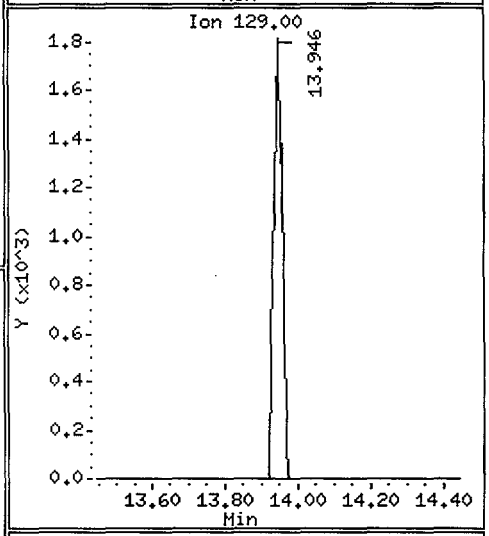


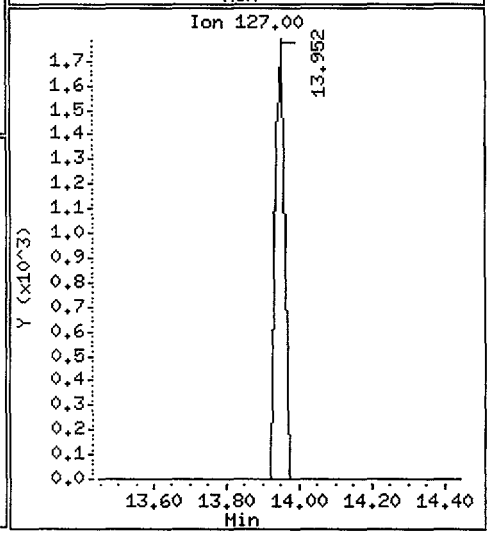












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcp1aa.d
Report Date: 18-Apr-2006 14:58

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X040706.b/h2hcp1aa.d
Lab Smp Id: H2HCP1AA Client Smp ID: G-3095-R3-VOST PAIR
Inj Date : 07-APR-2006 15:38
Operator : 22980 Inst ID: mx.i
Smp Info : H2HCP1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 18-Apr-2006 14:54 tajh Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	4.851	1535481	10.000
* 2 Chlorobenzene-d5	7.583	8854515	10.000
* 3 1,4 Dichlorobenzene-d4	10.746	574389	10.000

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide				CAS #: 124-38-9			
1.018	828457	5.39542332	0.13488	5	NIST02.l	77	1
Cyclotrisiloxane, hexamethyl-				CAS #: 541-05-9			
6.719	982933	1.11009242	0.027752	91	NIST02.l	71175	2
Benzoic acid, 5-methyl-2-trimethylsilylo				CAS #: 1000153-59-4			
9.237	594728	10.3540980	0.25885	64	NIST02.l	115080	3

4/19/06

Data File: /var/chem/gcms/mx.i/X040706.b/h2hcp1aa.d
Report Date: 18-Apr-2006 14:58

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug)	QUAL	LIBRARY	LIB ENTRY	CPND #
10.089	95038	1.65459297	0.041365	97	NIST02.1	4942	3

Benzaldehyde CAS #: 100-52-7

Benzoic acid, 4-[(trimethylsilyl)oxy]-, CAS #: 2078-13-9

12.443	150627	2.62238657	0.065560	56	NIST02.1	107114	3

4/19/06

Data File: /var/chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

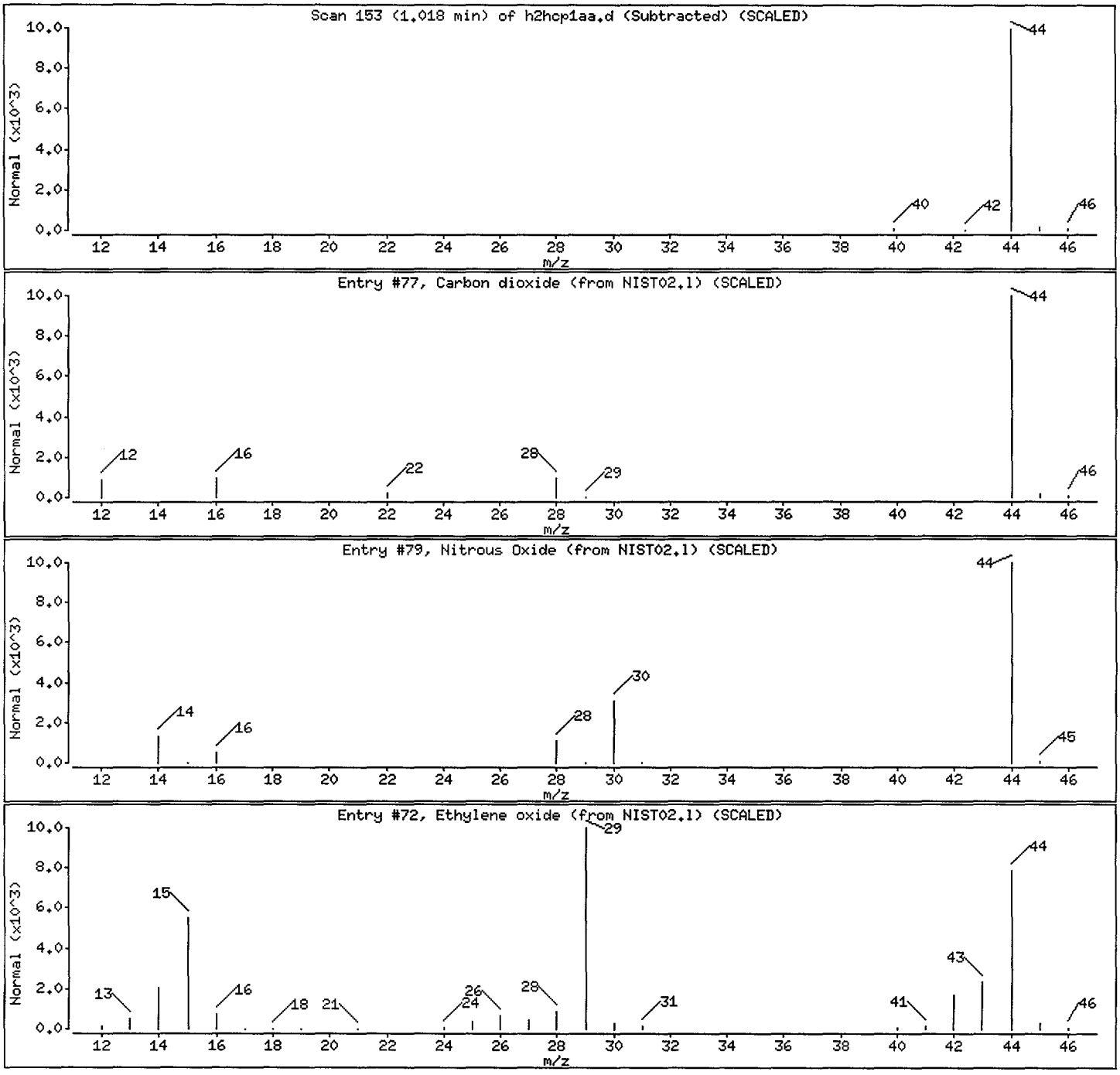
Sample Info: H2HCP1AA,1,0,,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST02.l	77	5	CO2	44
Nitrous Oxide	10024-97-2	NIST02.l	79	3	N2O	44
Ethylene oxide	75-21-8	NIST02.l	72	2	C2H4O	44



Data File: /var/chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

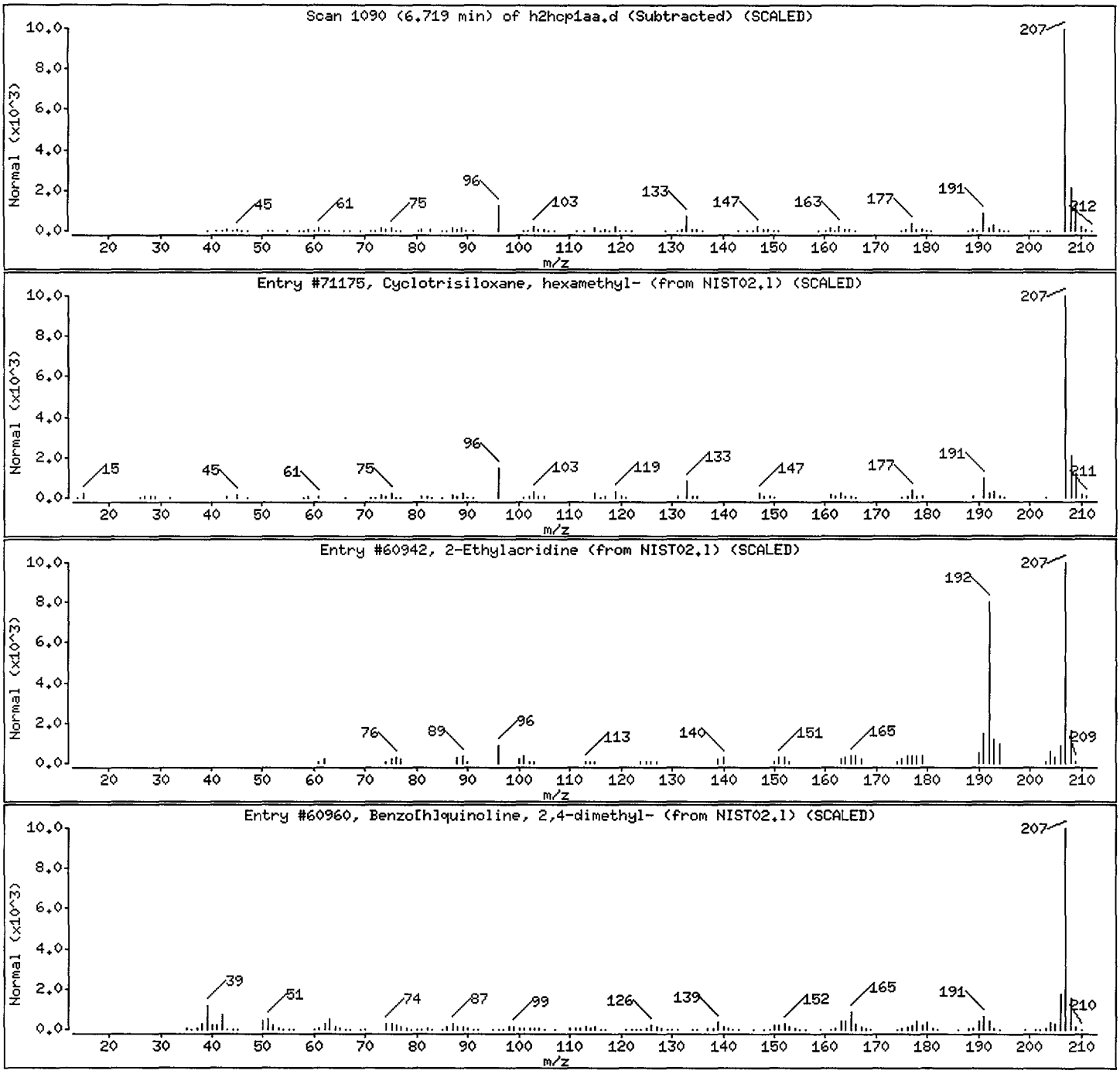
Sample Info: H2HCP1AA,1,0,,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotrisiloxane, hexamethyl-	541-05-9	NIST02.l	71175	91	C6H18O3Si3	222
2-Ethylacridine	55751-83-2	NIST02.l	60942	45	C15H13N	207
Benzo[h]quinoline, 2,4-dimethyl-	605-67-4	NIST02.l	60960	38	C15H13N	207



Data File: /var/chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

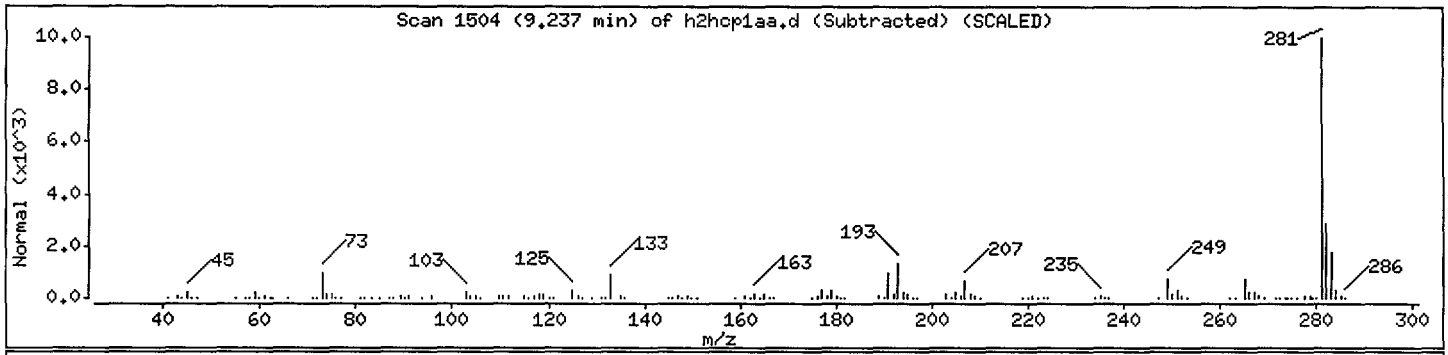
Sample Info: H2HCP1AA,1,0,,,

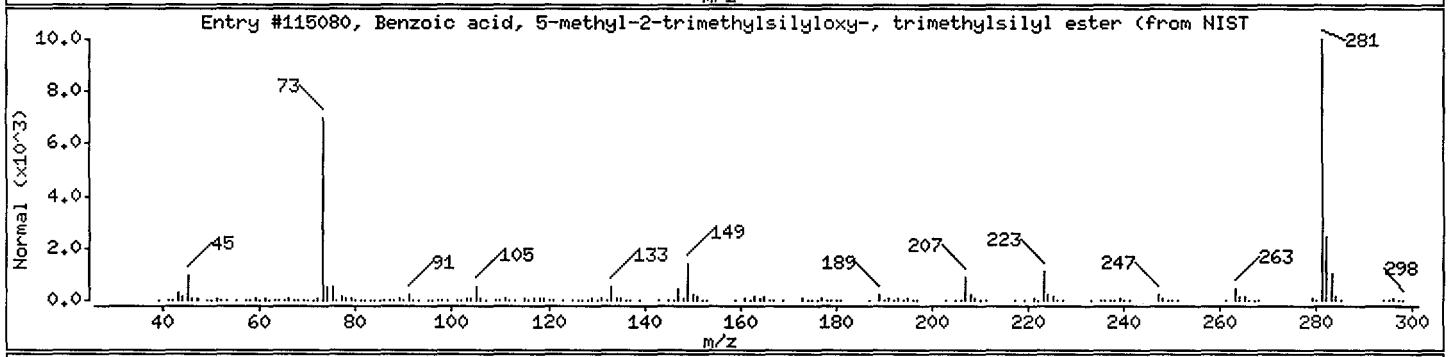
Operator: 22980

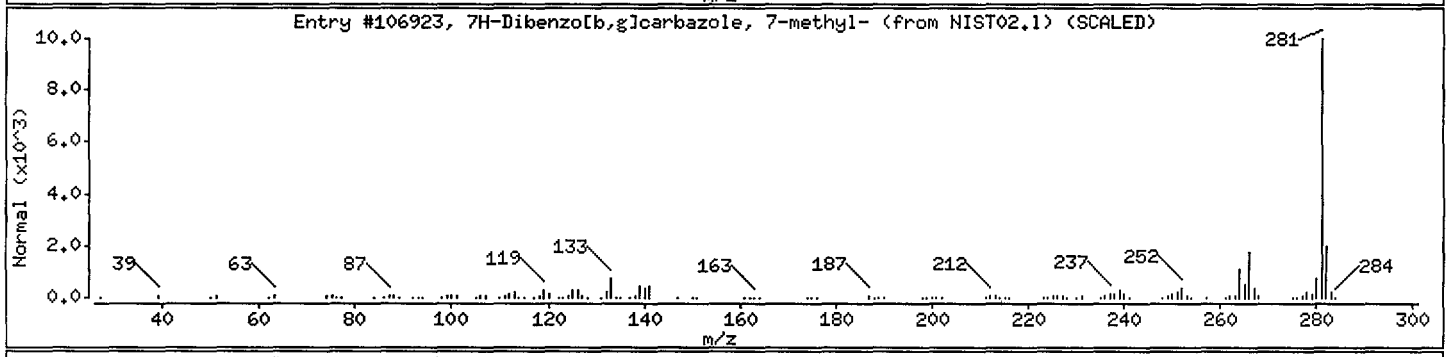
Column phase: J+W 624

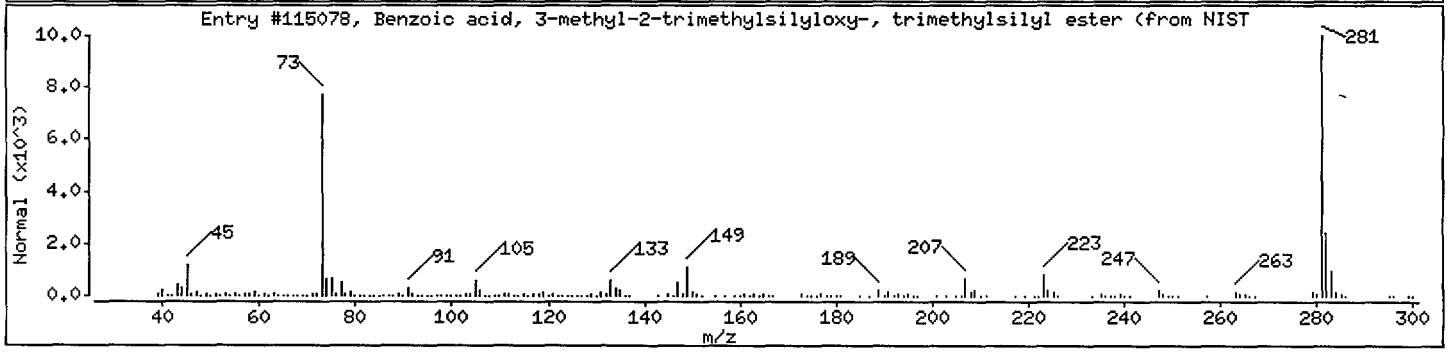
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzoic acid, 5-methyl-2-trimethylsilylo	1000153-59-4	NIST02.l	115080	64	C14H24O3Si2	296
7H-Dibenzo[b,g]carbazole, 7-methyl-	3557-49-1	NIST02.l	106923	53	C21H15N	281
Benzoic acid, 3-methyl-2-trimethylsilylo	1000153-57-1	NIST02.l	115078	53	C14H24O3Si2	296









Data File: /var/chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

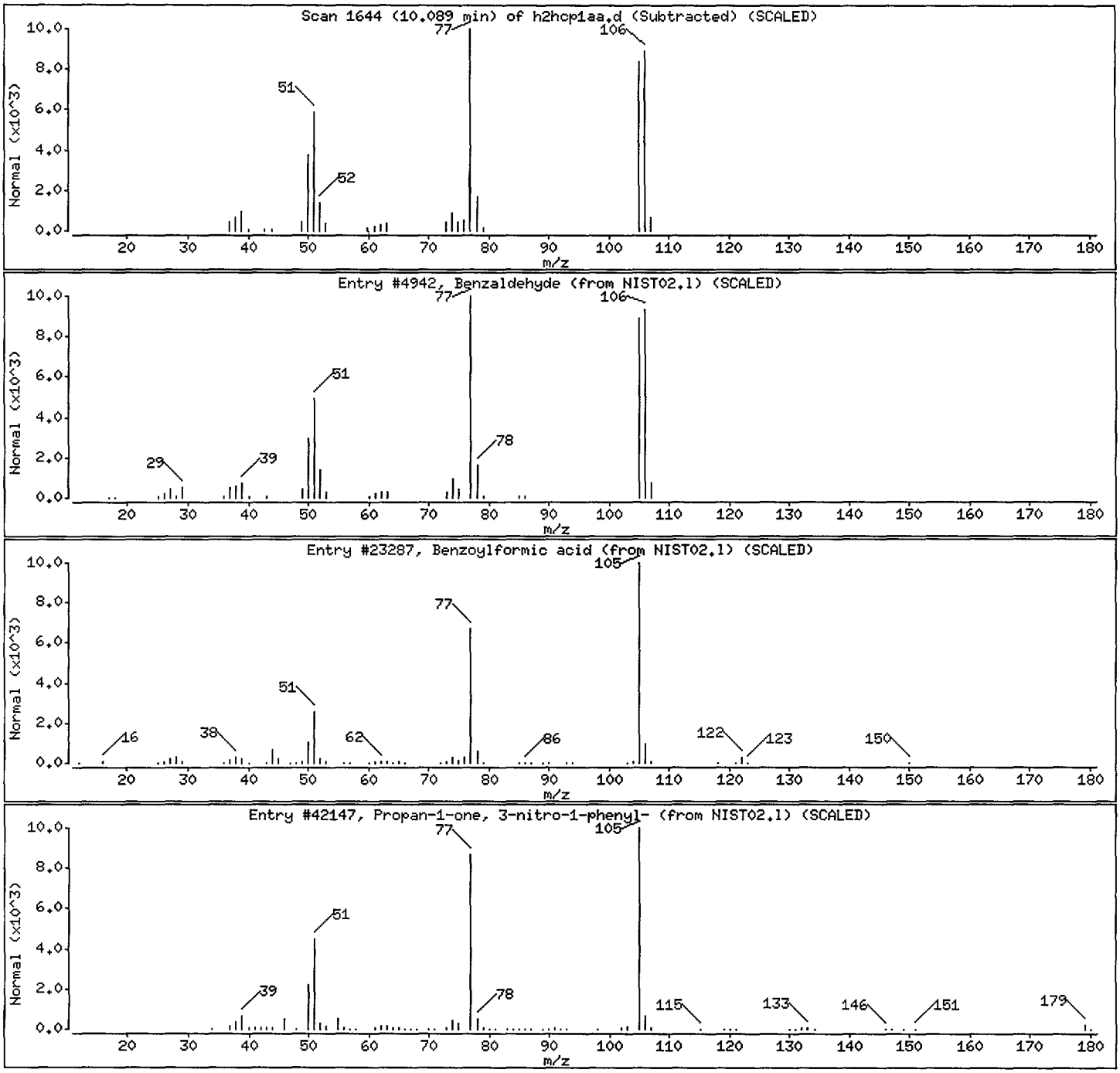
Sample Info: H2HCP1AA,1,0,,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzaldehyde	100-52-7	NIST02.l	4942	97	C7H6O	106
Benzoylformic acid	611-73-4	NIST02.l	23287	53	C8H6O3	150
Propan-1-one, 3-nitro-1-phenyl-	62847-52-3	NIST02.l	42147	50	C9H9NO3	179



Data File: /var/chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

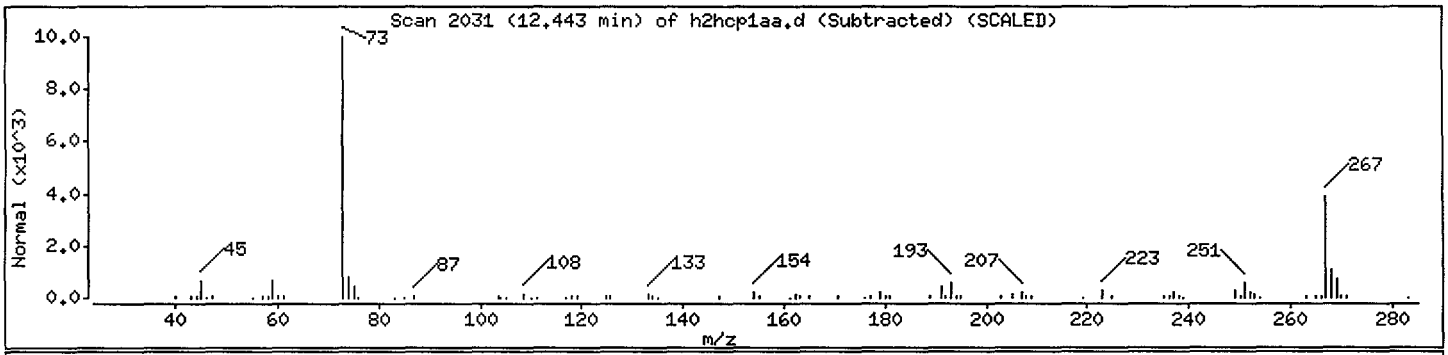
Sample Info: H2HCP1AA,1,0,,,

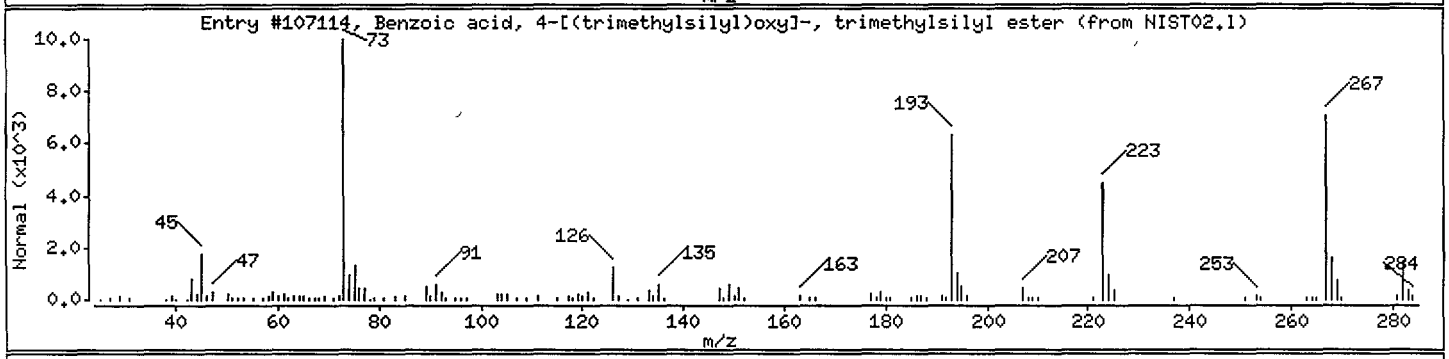
Operator: 22980

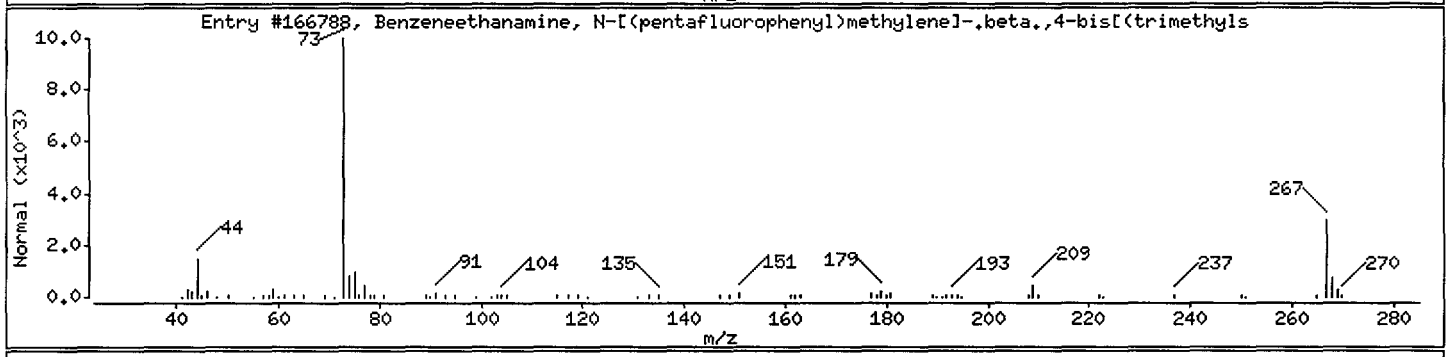
Column phase: J+W 624

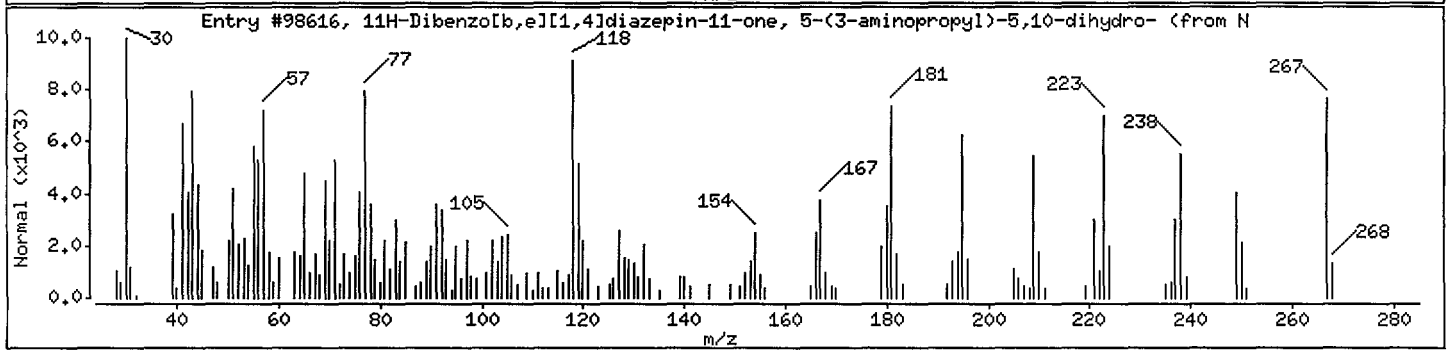
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzoic acid, 4-[(trimethylsilyl)oxy]-,	2078-13-9	NIST02.l	107114	56	C13H22O3Si2	282
Benzeneethanamine, N-[(pentafluorophenyl	55429-85-1	NIST02.l	166788	45	C21H26F5NO2Si	475
11H-Dibenzo[b,e][1,4]diazepin-11-one, 5-	13450-73-2	NIST02.l	98616	43	C16H17N3O	267









STL Knoxville - ACS

Client Sample ID: G-3096-R3-VOST PAIR #4 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-030 **Work Order #...:** H2HCQ1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.088 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.027 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0027 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	**0.0077 J**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	**0.021 J**	**0.025**	**ug**	**0.010**
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	**0.051**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	**0.0099 J**	**0.025**	**ug**	**0.0050**
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3096-R3-VOST PAIR #4 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-030 **Work Order #...:** H2HCQ1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.035**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.0024 J**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0025 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.0067 J**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(50 - 134)
1,2-Dichloroethane-d4	107	(50 - 134)
Toluene-d8	92	(57 - 127)
Bromofluorobenzene	92	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3096-R3-VOST PAIR #4 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #: H6D030169-030 **Work Order #:** H2HCQ1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d
Report Date: 07-Apr-2006 15:04

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d
Lab Smp Id: H2HCQ1AA Client Smp ID: G-3096-R3-VOST PAIR
Inj Date : 07-APR-2006 14:46
Operator : 22980 Inst ID: mz.i
Smp Info : H2HCQ1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 13:06 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.675	5.676	(1.000)	659967	10.0000	
* 2 Chlorobenzene-d5	119	8.936	8.937	(1.000)	171312	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.497	11.492	(1.000)	229524	10.0000	
$ 4 Dibromofluoromethane	113	4.829	4.831	(0.851)	116619	11.0277	0.27569
$ 5 1,2-Dichloroethane-d4	65	5.237	5.238	(0.923)	98271	10.7462	0.26865
$ 6 Toluene-d8	98	7.463	7.465	(0.835)	689333	9.15796	0.22895
$ 7 4-Bromofluorobenzene	95	10.128	10.129	(0.881)	213294	9.21453	0.23036
10 Dichlorodifluoromethane	85	1.015	1.016	(0.179)	6374	0.39572	0.0098929
11 Chloromethane (spcc)	50	1.118	1.126	(0.197)	96595	2.03902	0.050976
15 Bromomethane	94	1.404	1.418	(0.247)	1672	1.07177	0.026794
16 Chloroethane	64	1.593	1.485	(0.281)	4222	0.34304	0.~~008576~~
22 Acetone	43	2.128	2.123	(0.375)	1138	3.53435	0.088359
23 *Iodomethane	142	2.189	2.184	(0.386)	646	0.55980	0.013995
24 Carbon Disulfide	76	2.238	2.239	(0.394)	5542	0.10946	0.0027365
27 Methylene Chloride	84	2.505	2.513	(0.441)	15339	1.38973	0.034743
39 *THF	42	4.543	4.532	(0.801)	846	0.54055	0.013514

Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d
Report Date: 07-Apr-2006 15:04

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug)
40 Chloroform (ccc)	83	4.616	4.618	(0.813)	1508	0.06328	0.0015820
44 Benzene	78	5.310	5.305	(0.936)	4423	0.06797	0.0016993
45 1,2-Dichloroethane	62	5.675	5.335	(1.000)	10412	0.75554	~~0.018888~~
46 Trichloroethene	130	6.113	6.114	(1.077)	4887	0.26696	0.0066739
53 4-Methyl-2-pentanone	43	7.469	7.386	(1.316)	5651	0.98056	~~0.024514~~
54 Toluene (ccc)	91	7.530	7.532	(0.843)	9891	0.10146	0.0025365
55 trans-1,3-Dichloropropene	75	8.133	7.793	(0.910)	1421	0.71651	~~0.017913~~
58 Tetrachloroethene	164	8.114	8.097	(0.908)	1917	0.09483	0.0023708
61 Chlorodibromomethane	129	8.351	8.353	(0.935)	445	0.82051	0.020513
63 Chlorobenzene (spcc)	112	8.966	8.961	(1.003)	16676	0.30646	0.0076614
65 Ethylbenzene (ccc)	106	9.228	9.101	(1.033)	1630	0.04650	~~0.0011625~~
67 o-Xylene	106	9.228	9.612	(1.033)	1630	0.04355	~~0.0010888~~
68 Styrene	104	9.635	9.630	(1.078)	3379	0.06430	0.0016075
83 1,3-Dichlorobenzene	146	11.527	11.395	(1.003)	2026	0.05044	~~0.0012609~~
85 1,4-Dichlorobenzene	146	11.527	11.528	(1.003)	2026	0.05422	0.0013556

JW 4.14.06

Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d
Report Date: 07-Apr-2006 15:04

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2hcq1aa.d
Lab Smp Id: H2HCQ1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Calibration Date: 07-APR-2006
Calibration Time: 07:35
Client Smp ID: G-3096-R3-VOST PAIR
Level: LOW
Sample Type: AIR
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	952581	476290	1905162	659967	-30.72
2 Chlorobenzene-d5	164101	82050	328202	171312	4.39
3 1,4 Dichlorobenze	204390	102195	408780	229524	12.30

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.68	5.18	6.18	5.67	-0.02
2 Chlorobenzene-d5	8.94	8.44	9.44	8.94	-0.02
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.50	0.04

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

Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d
Report Date: 07-Apr-2006 15:04

STL Knoxville

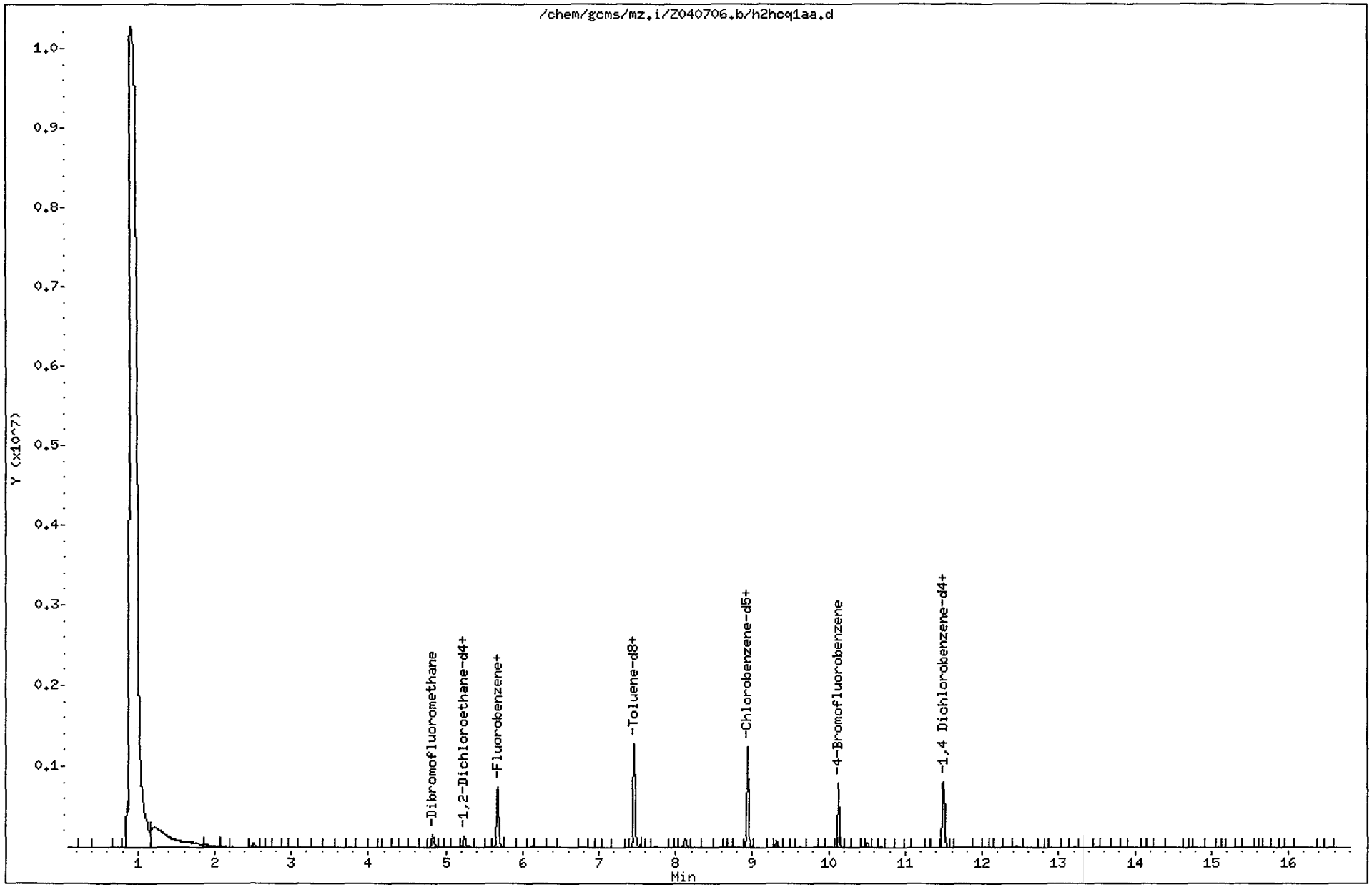
RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030169
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: H2HCQ1AA
Client Smp ID: G-3096-R3-VOST PAIR
Level: LOW
Operator: 22980
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allcmpds.spk
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.27569	110.28	50-150
$ 5 1,2-Dichloroethane	0.25000	0.26865	107.46	50-150
$ 6 Toluene-d8	0.25000	0.22895	91.58	50-150
$ 7 4-Bromofluorobenze	0.25000	0.23036	92.15	50-150

Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d
Date : 07-APR-2006 14:46
Client ID: G-3096-R3-VOST PAIR
Sample Info: H2HCQ1AA,1,0,,

Instrument: mz.i
Operator: 22980
Column phase: J+W 624
Column diameter: 0.18



Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

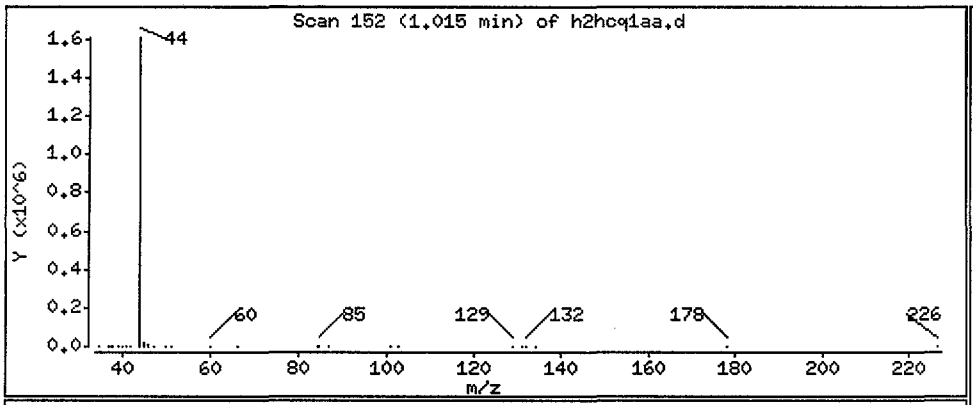
Operator: 22980

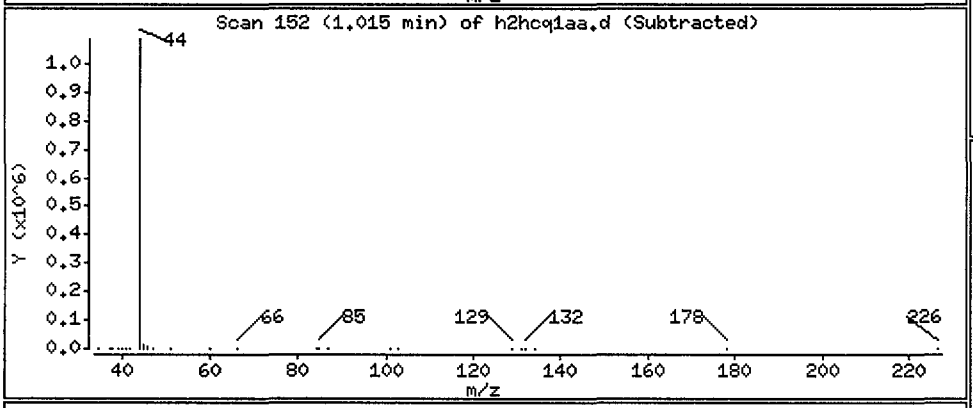
Column phase: J+W 624

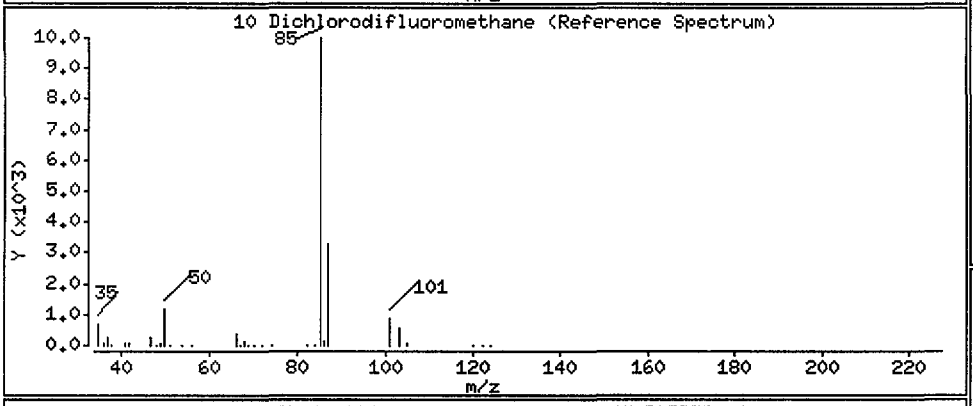
Column diameter: 0.18

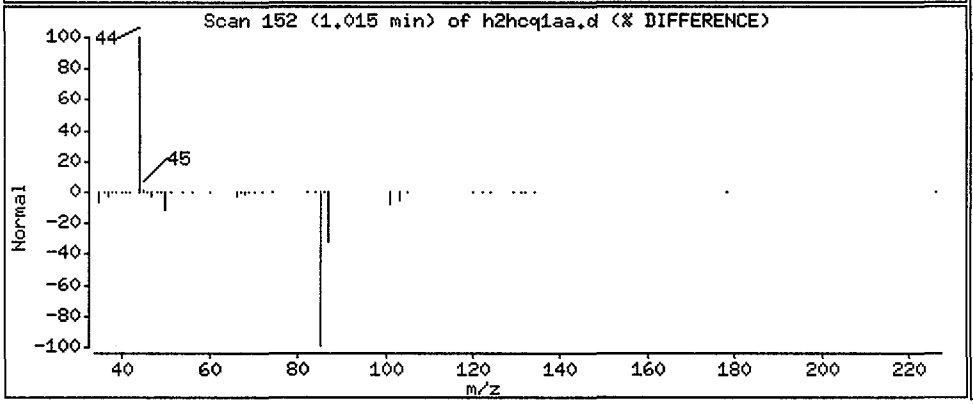
10 Dichlorodifluoromethane

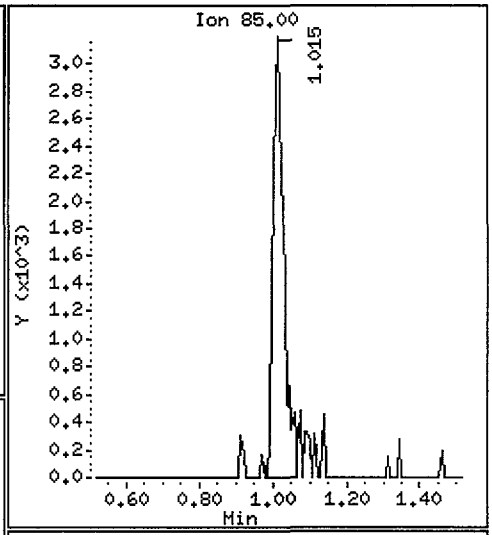
Concentration: 0.0098929 ug

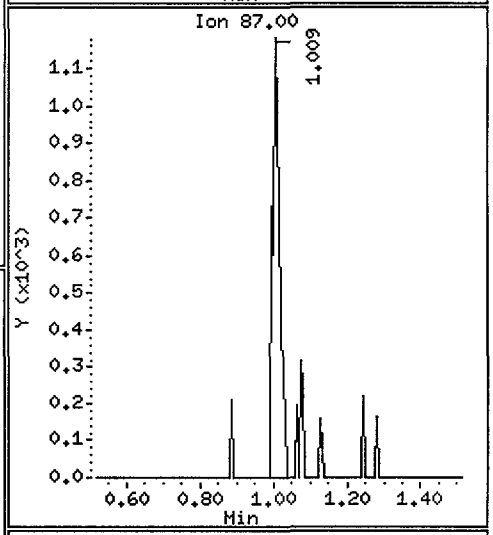


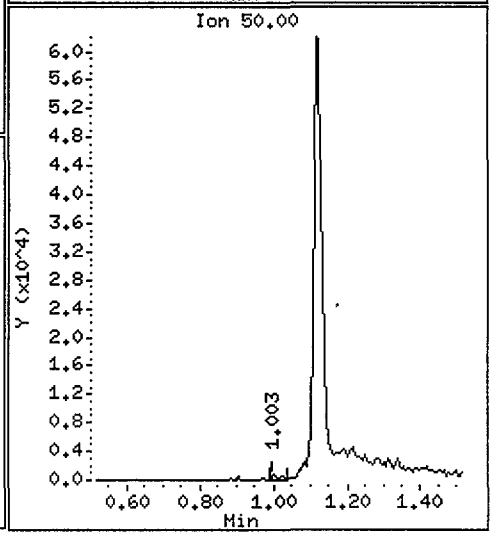












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

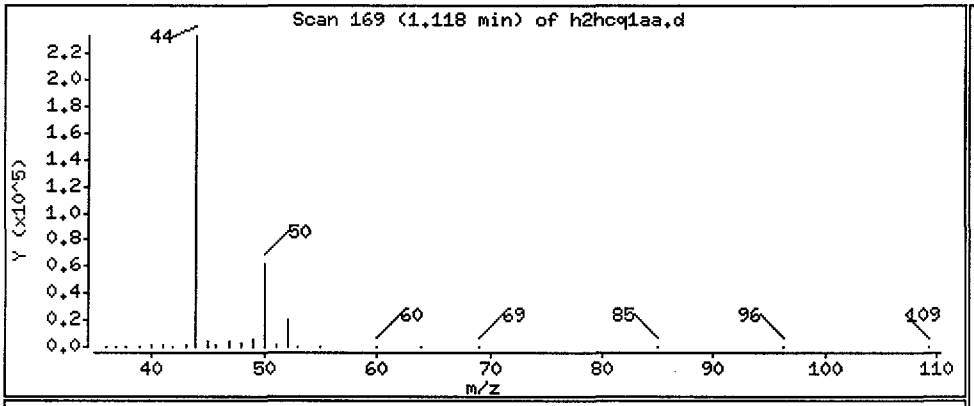
Operator: 22980

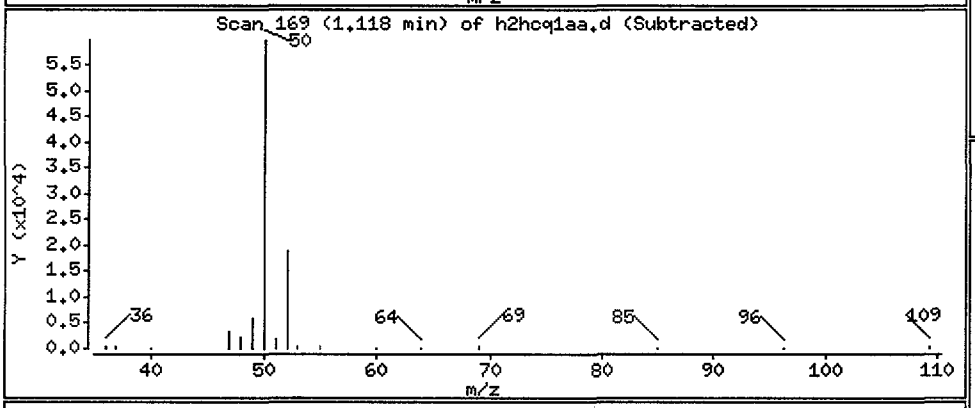
Column phase: J+W 624

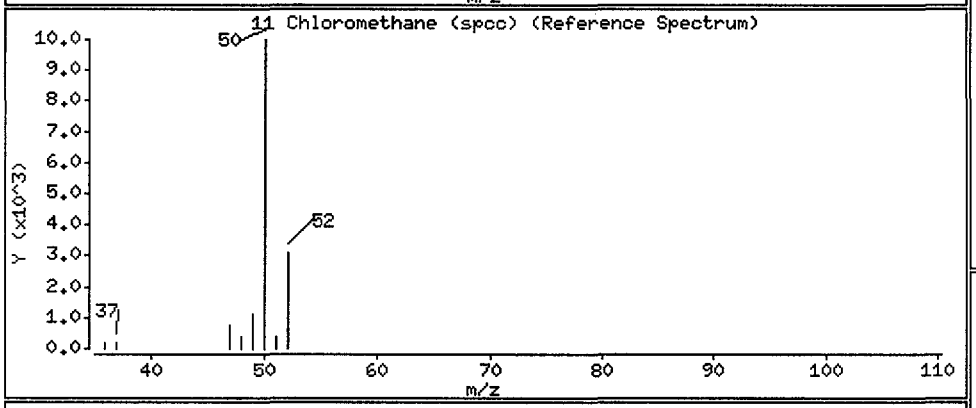
Column diameter: 0.18

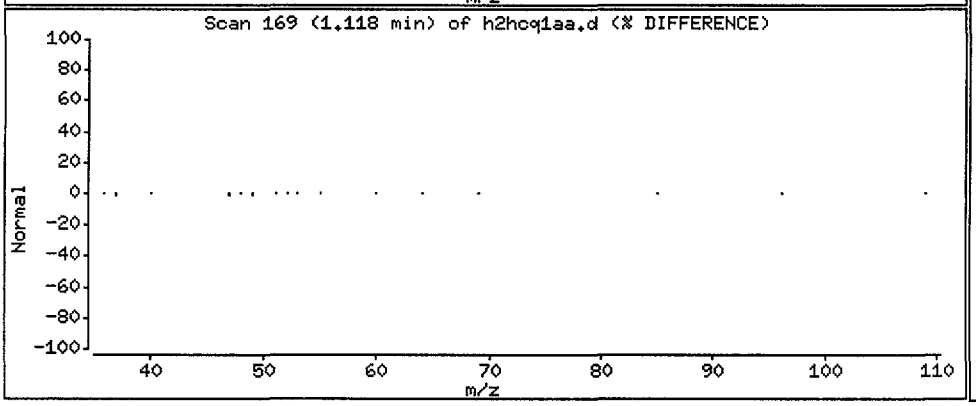
11 Chloromethane (spcc)

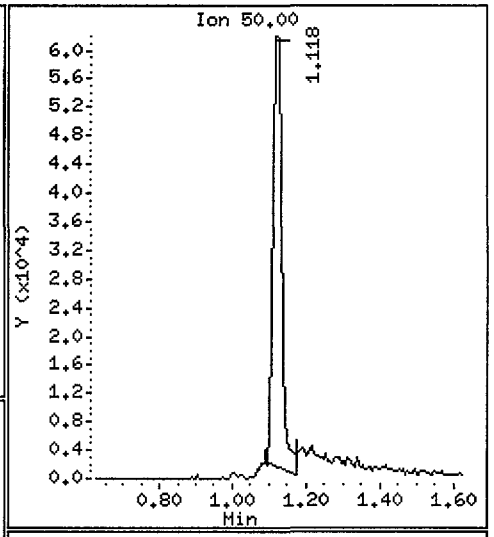
Concentration: 0.050976 ug

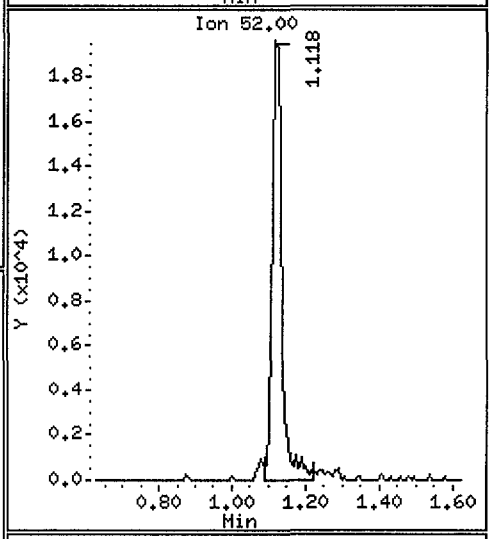


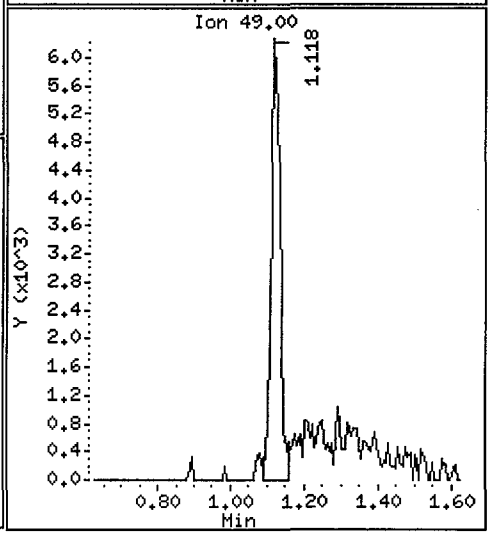












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

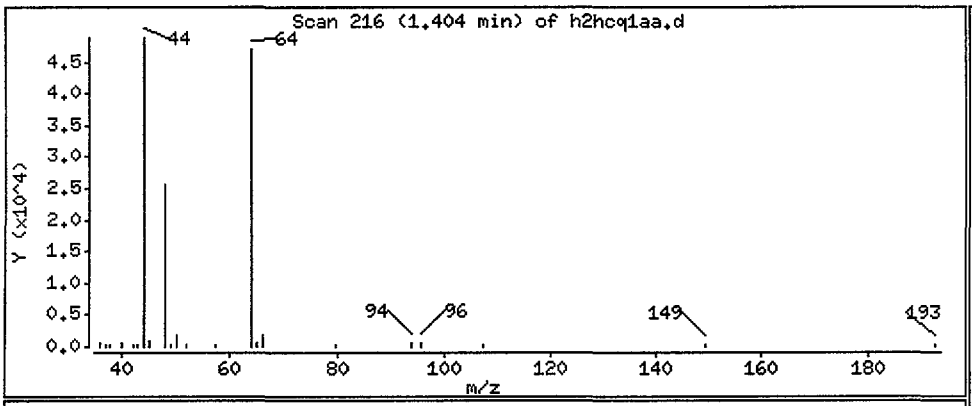
Operator: 22980

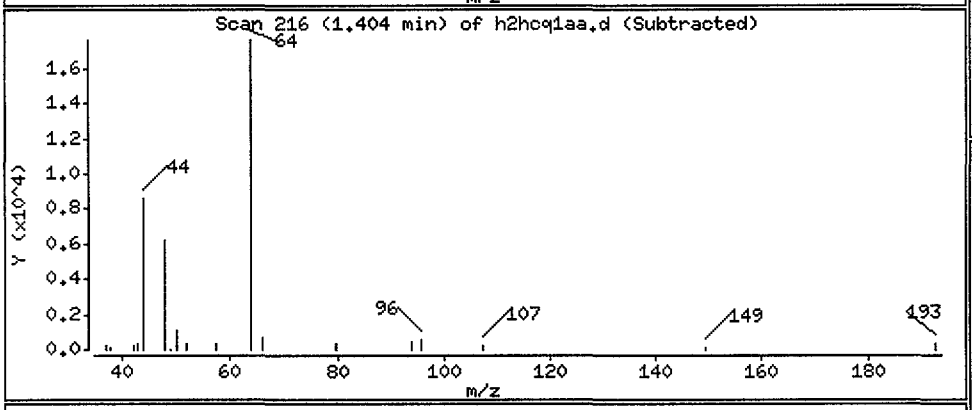
Column phase: J+W 624

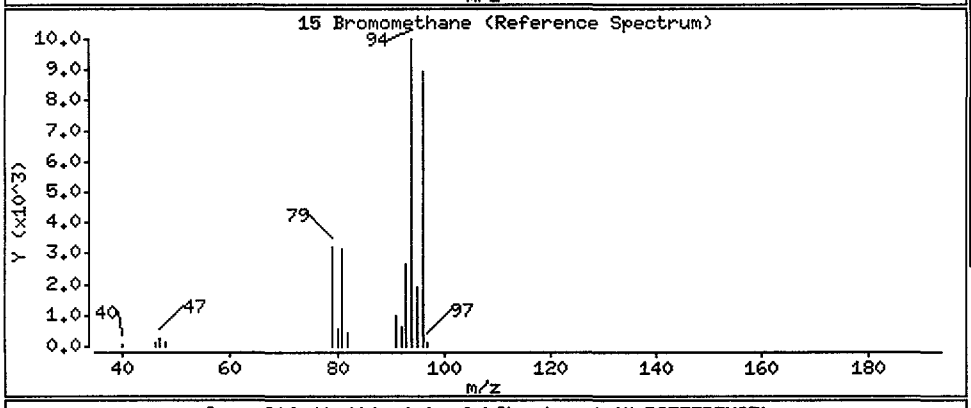
Column diameter: 0.18

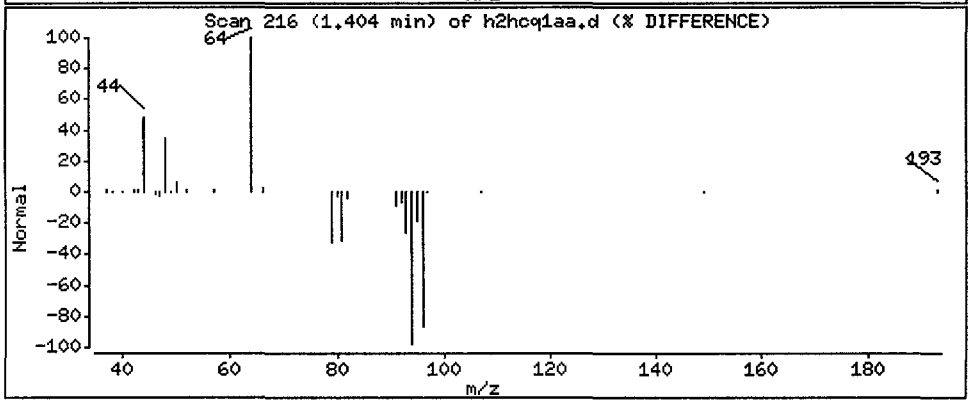
15 Bromomethane

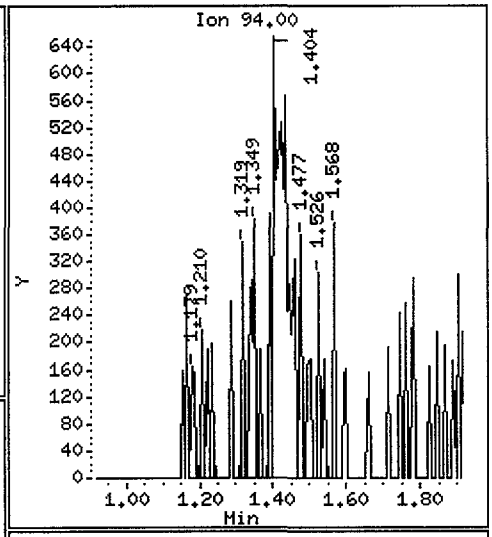
Concentration: 0.026794 ug

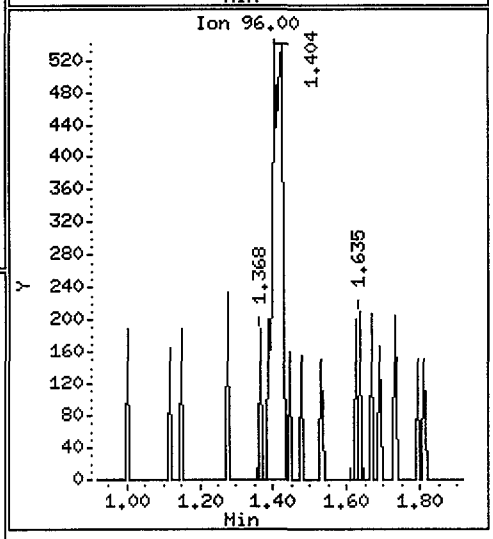












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

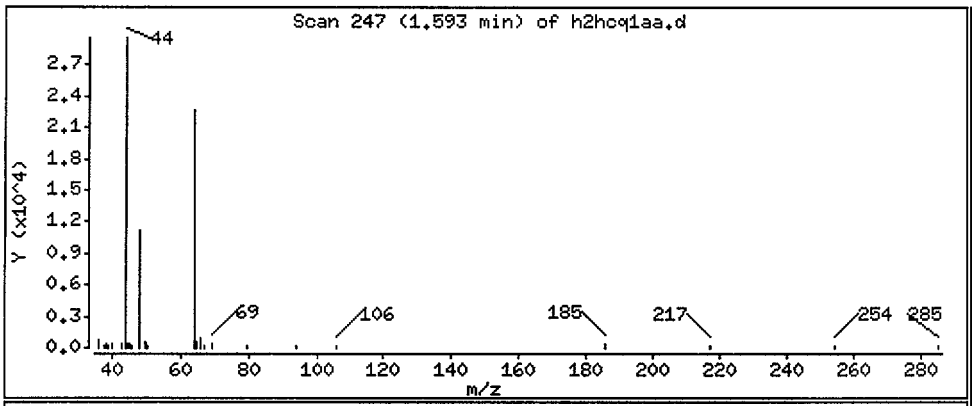
Operator: 22980

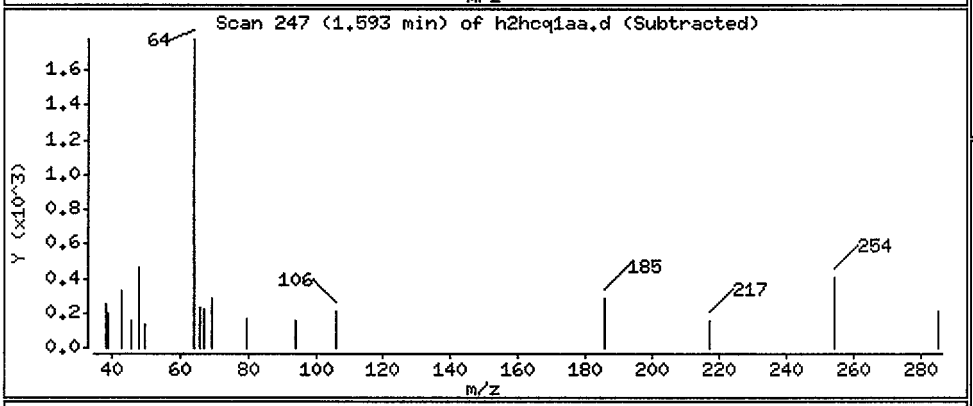
Column phase: J+W 624

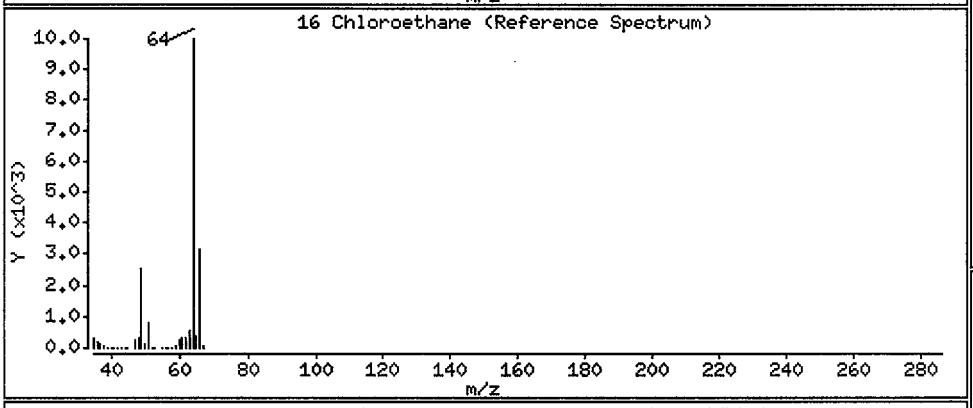
Column diameter: 0.18

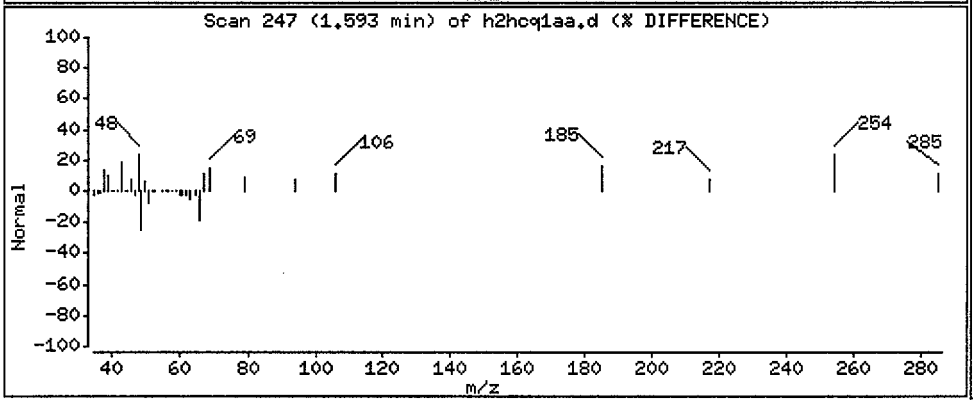
16 Chloroethane

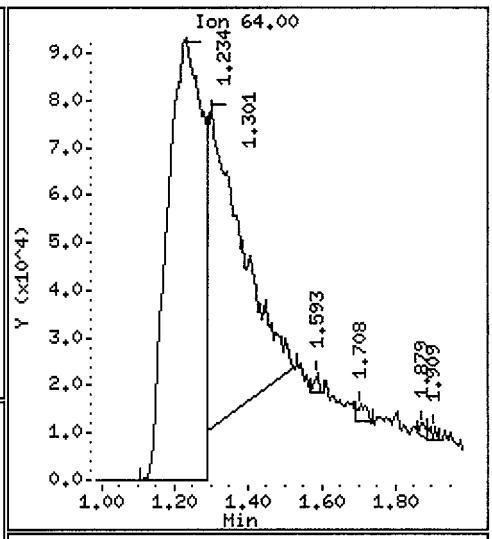
Concentration: 0.0085761 ug

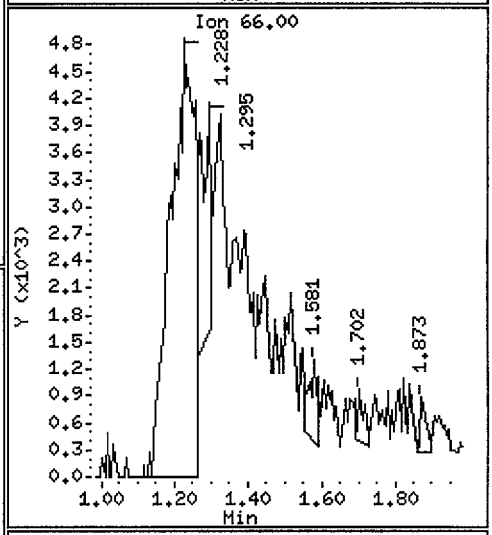


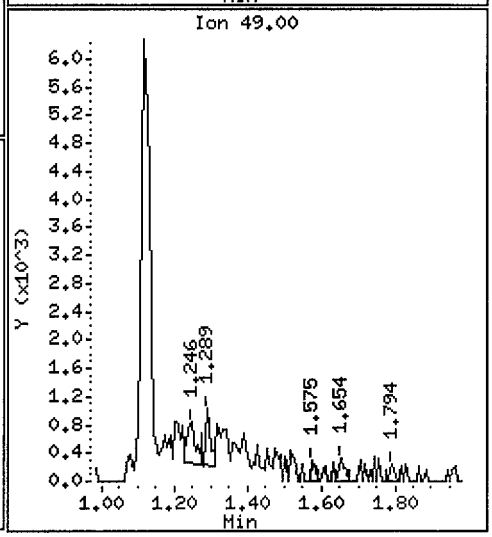












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

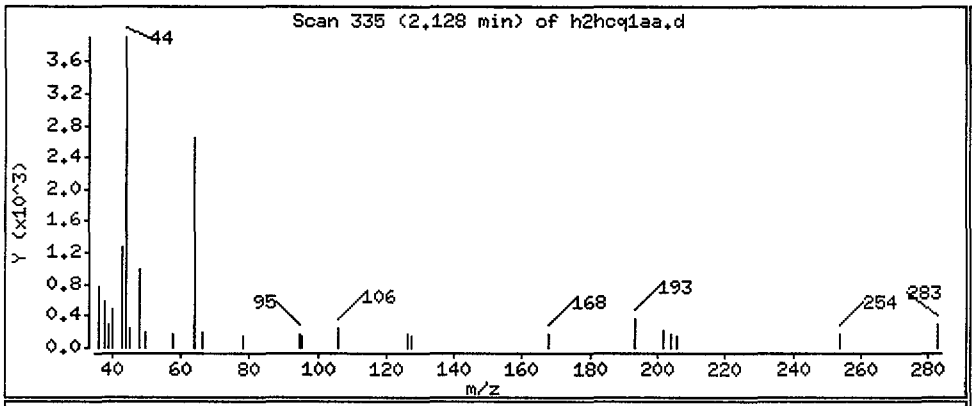
Operator: 22980

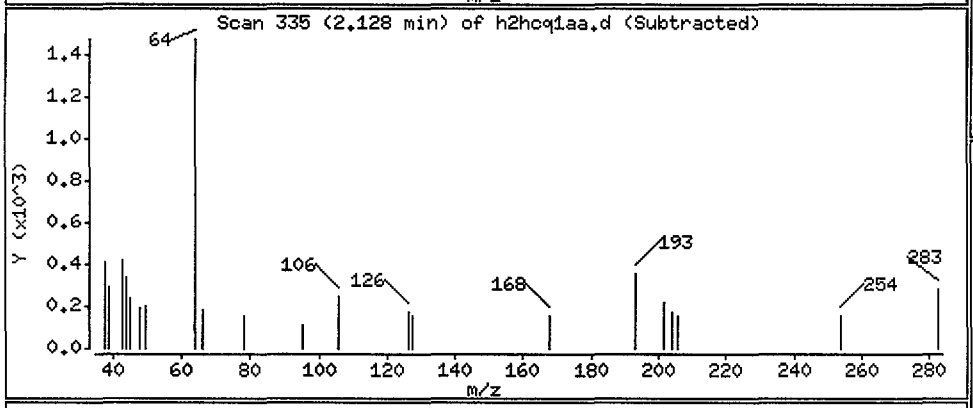
Column phase: J+W 624

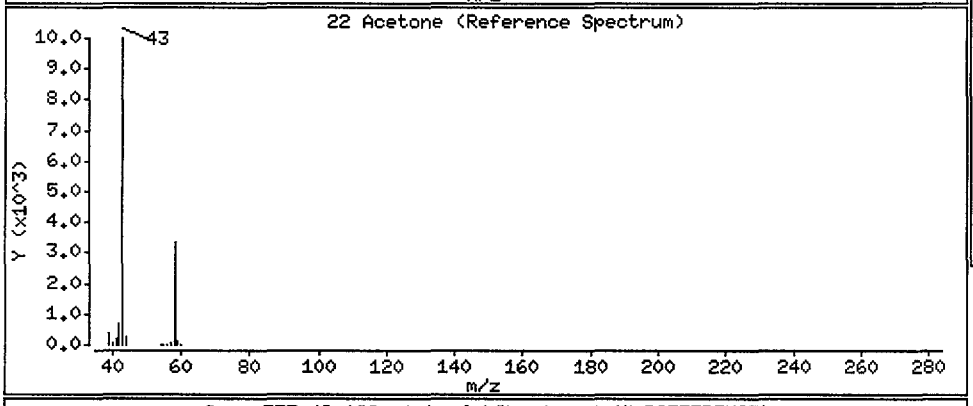
Column diameter: 0.18

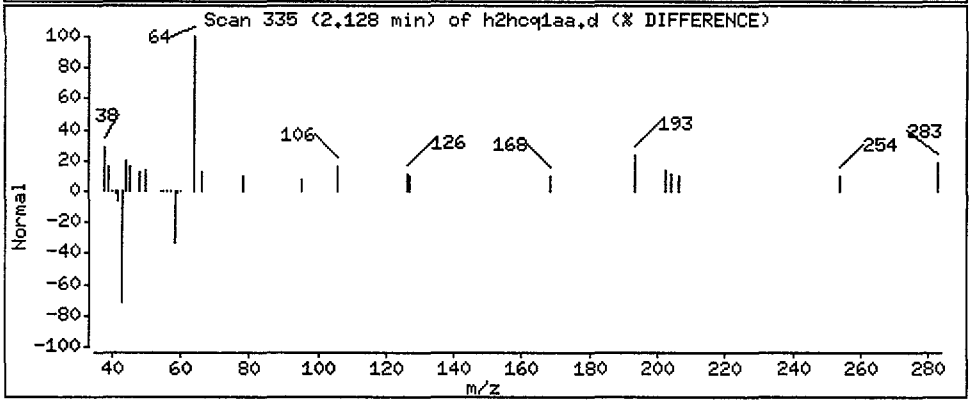
22 Acetone

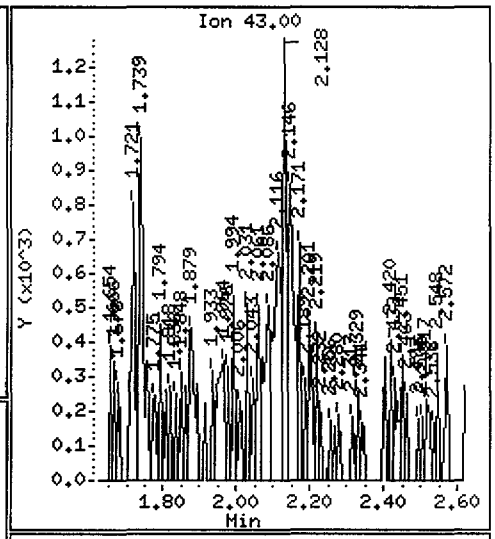
Concentration: 0.088359 ug

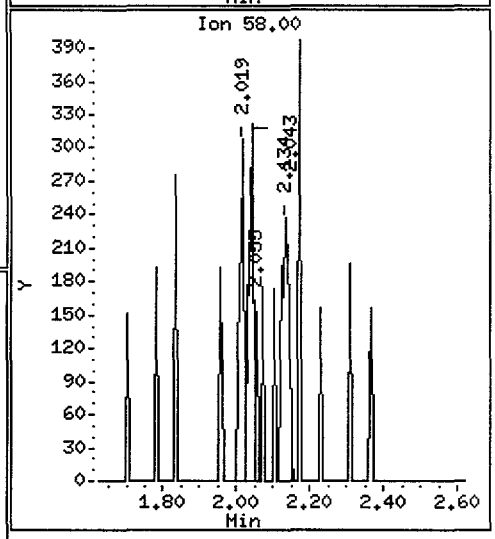












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

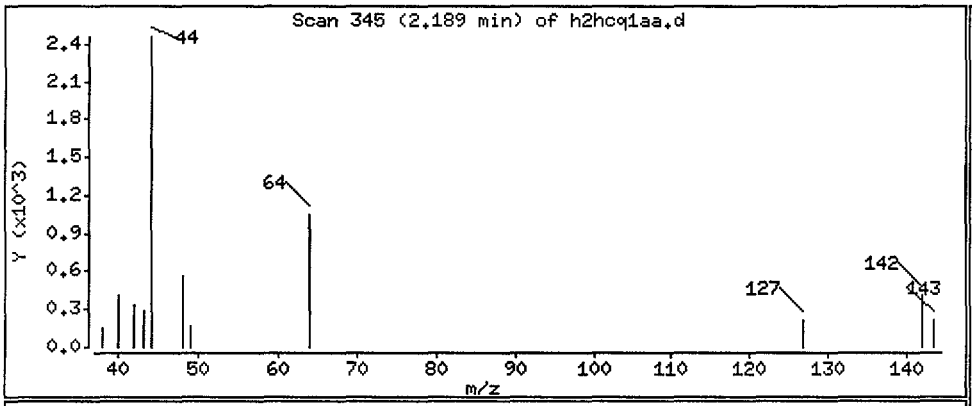
Operator: 22980

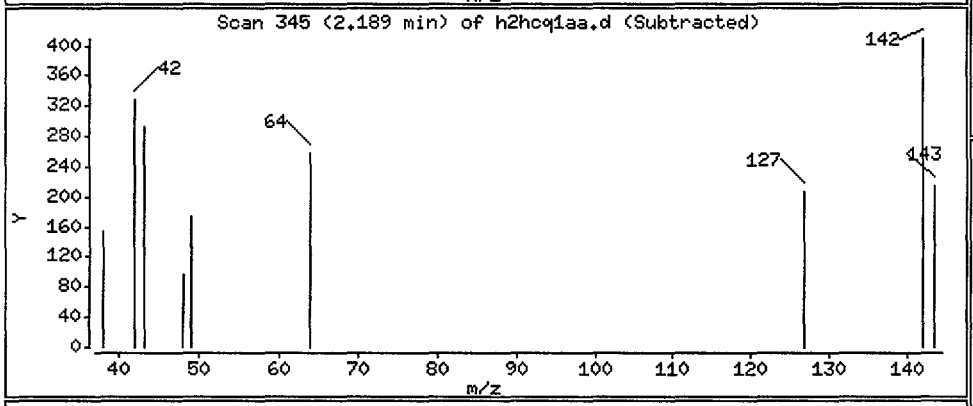
Column phase: J+W 624

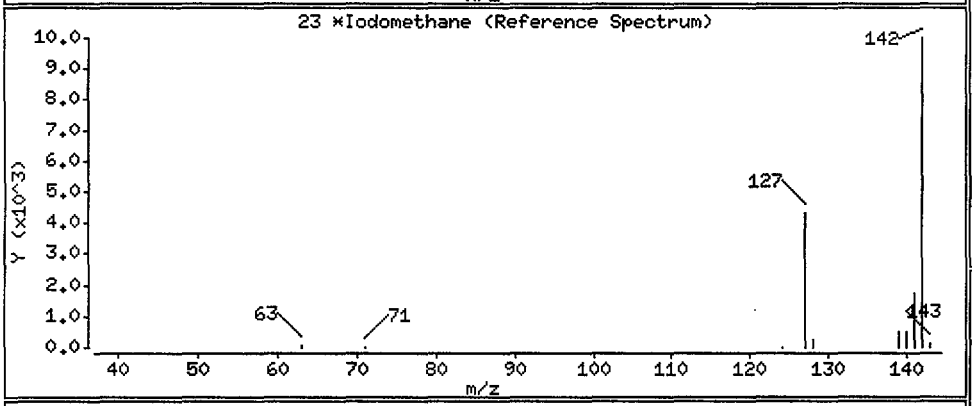
Column diameter: 0.18

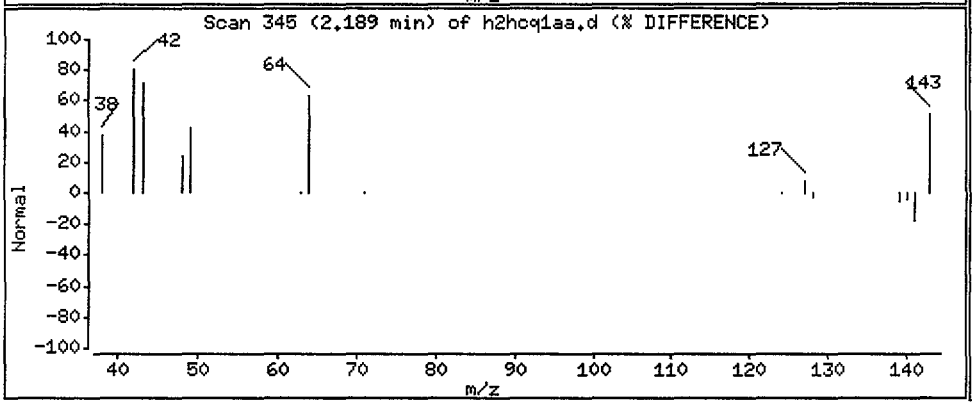
23 *Iodomethane

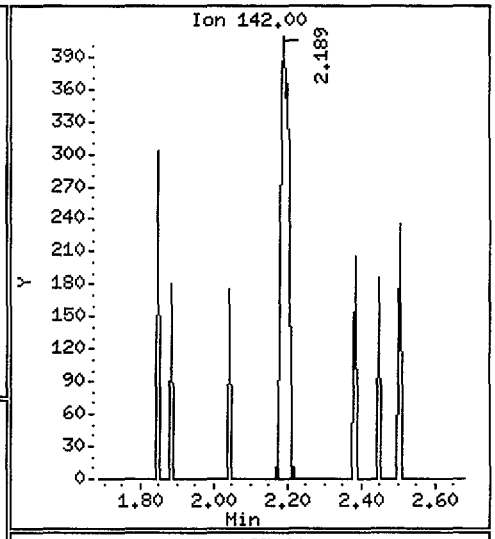
Concentration: 0.013995 ug

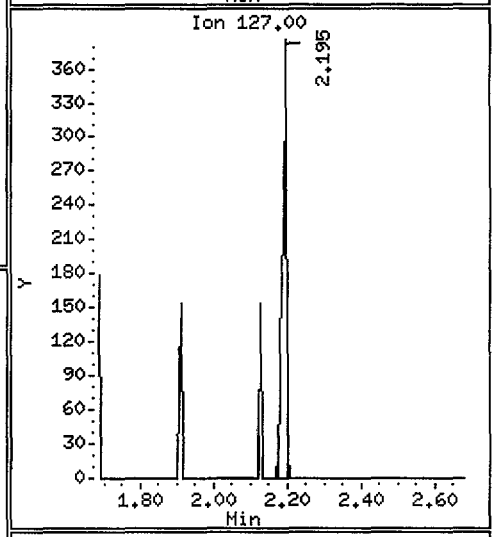


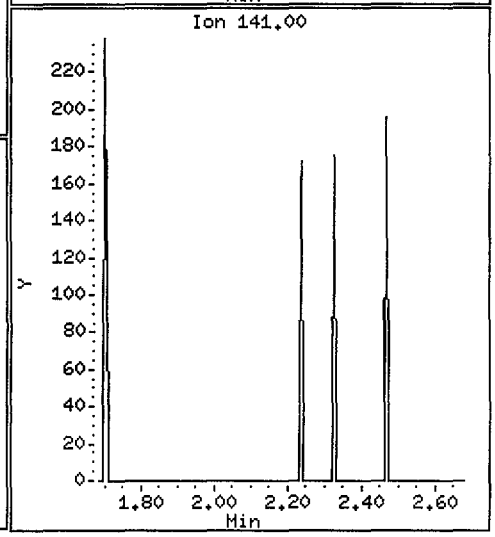












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

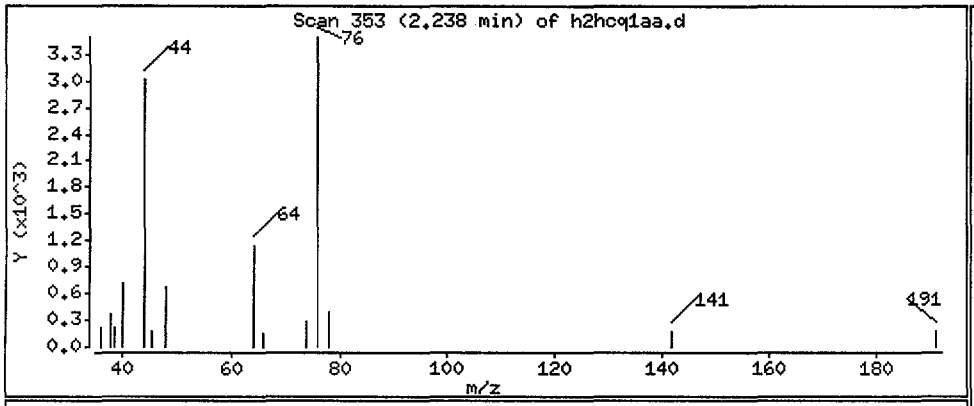
Operator: 22980

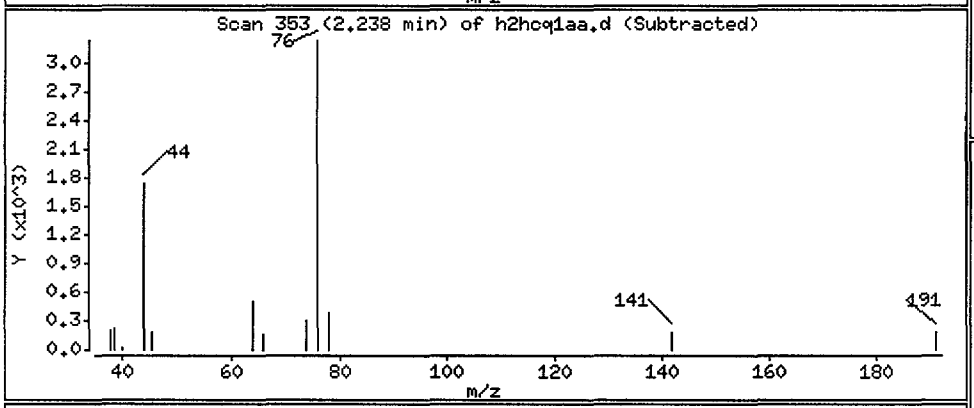
Column phase: J+W 624

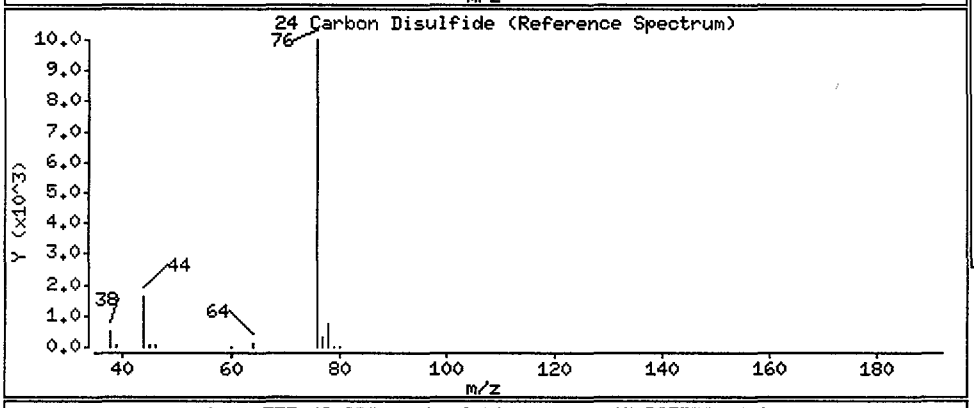
Column diameter: 0.18

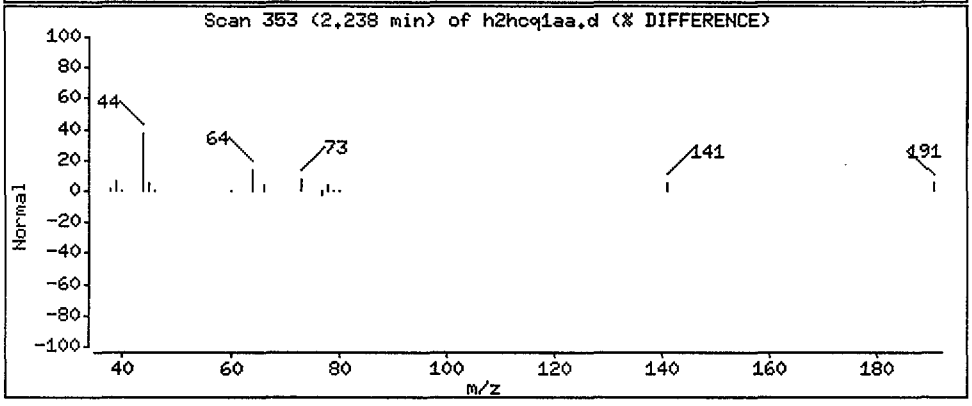
24 Carbon Disulfide

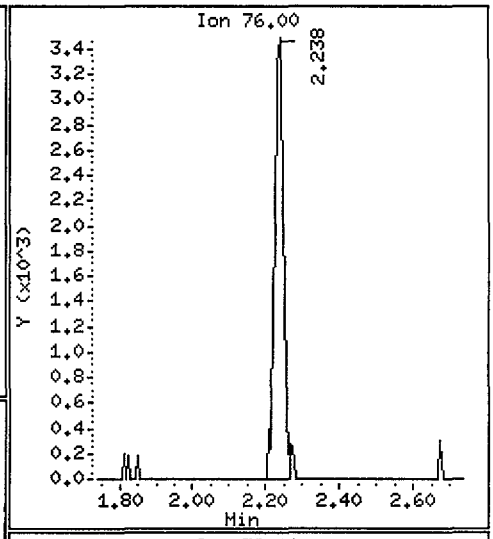
Concentration: 0.0027365 ug

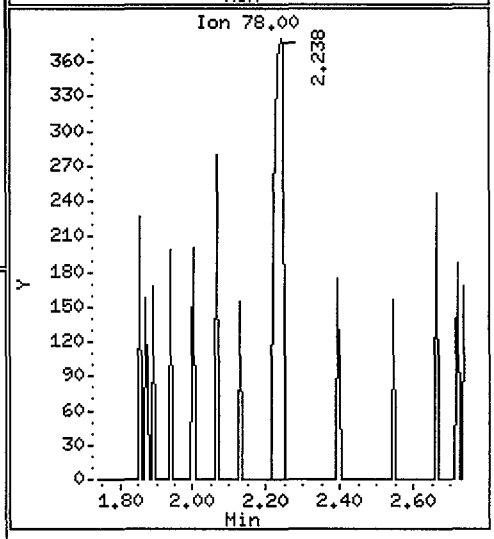












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

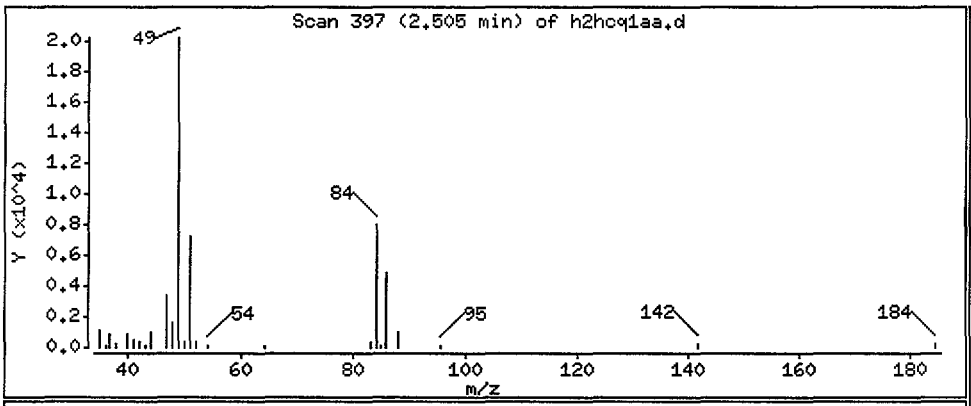
Operator: 22980

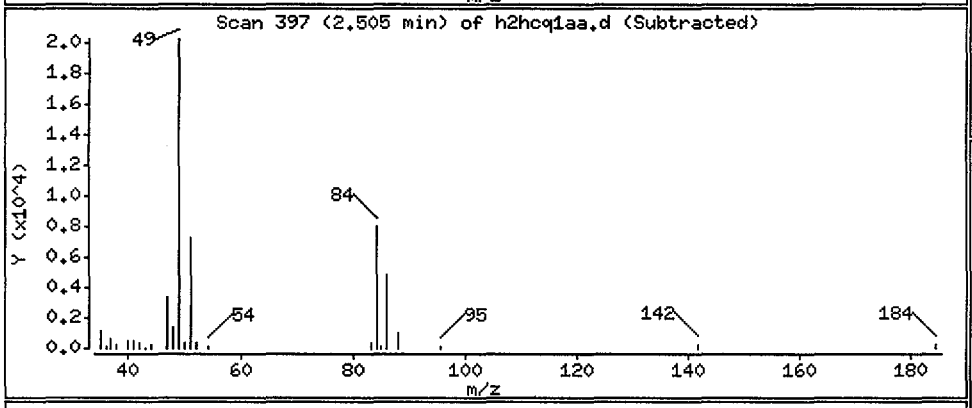
Column phase: J+W 624

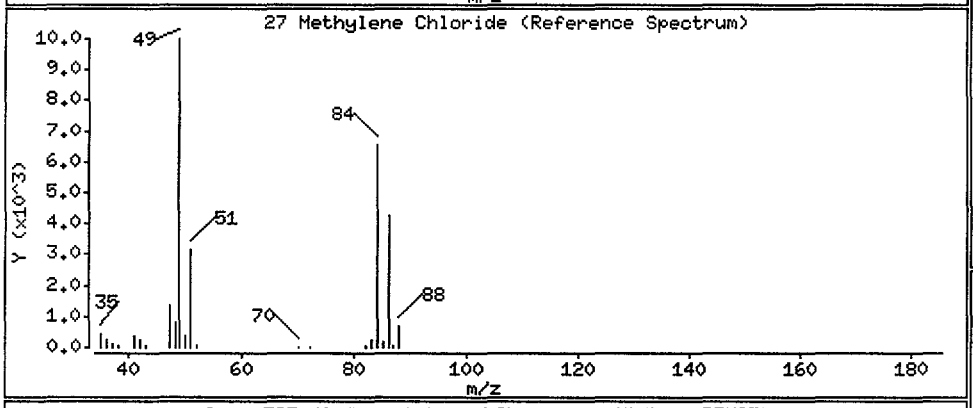
Column diameter: 0.18

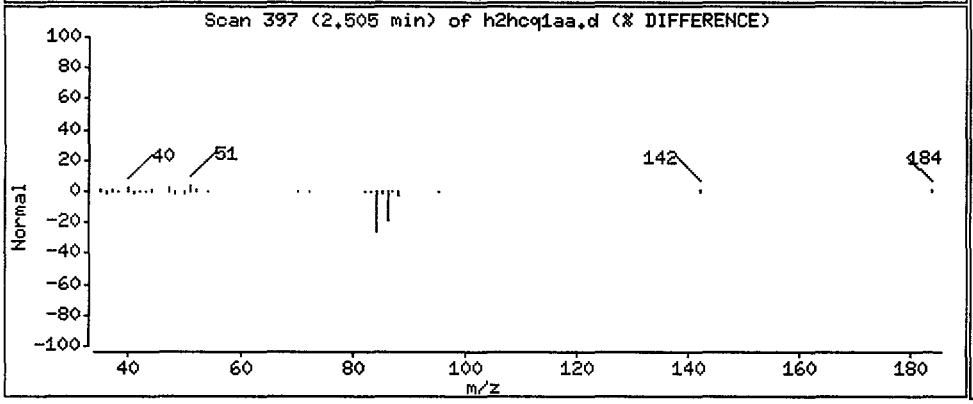
27 Methylene Chloride

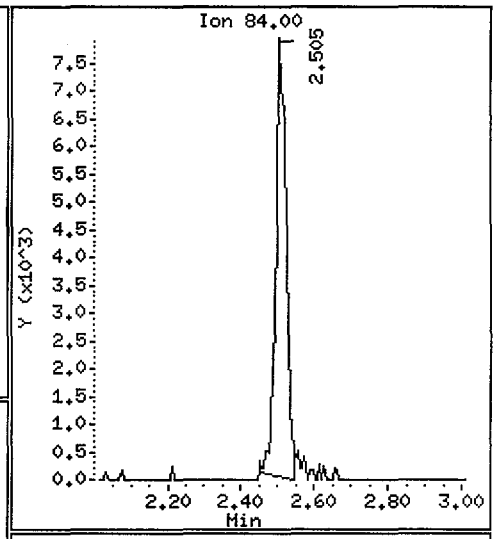
Concentration: 0.034743 ug

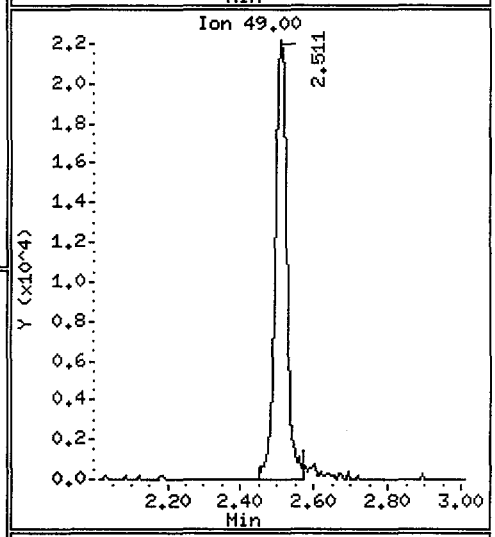


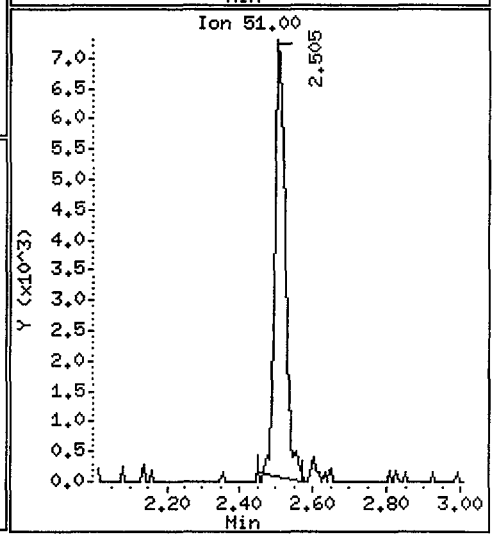












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

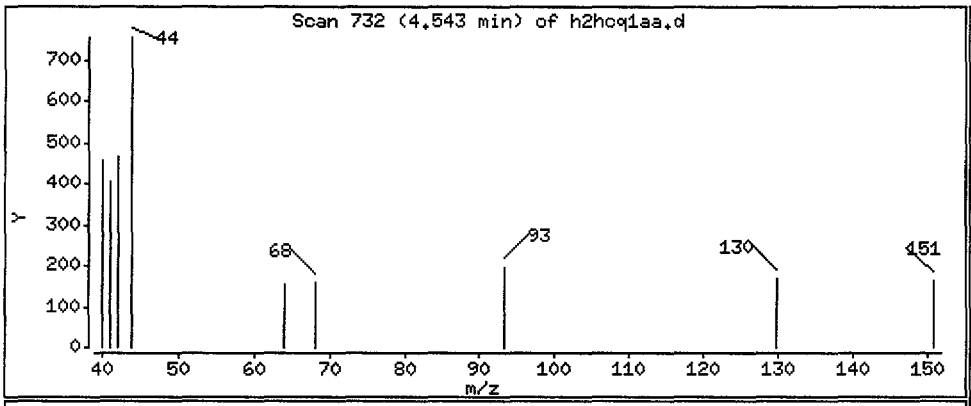
Operator: 22980

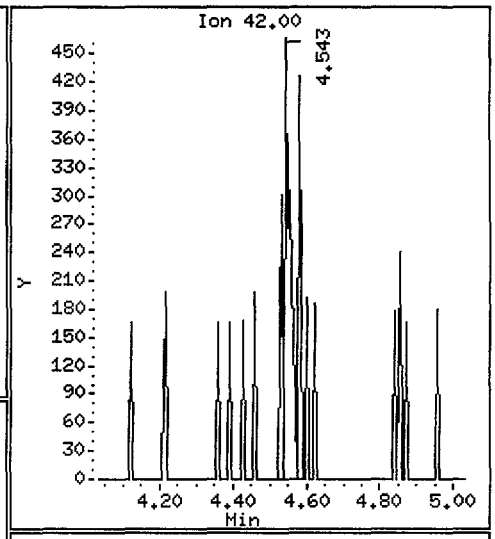
Column phase: J+W 624

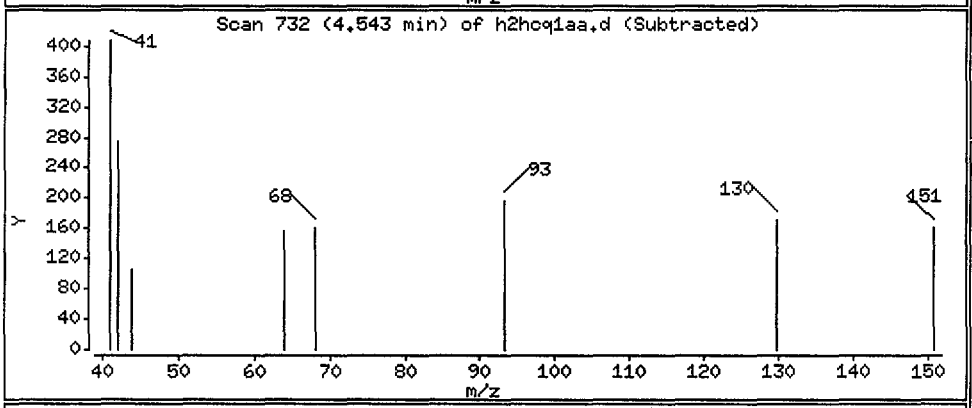
Column diameter: 0.18

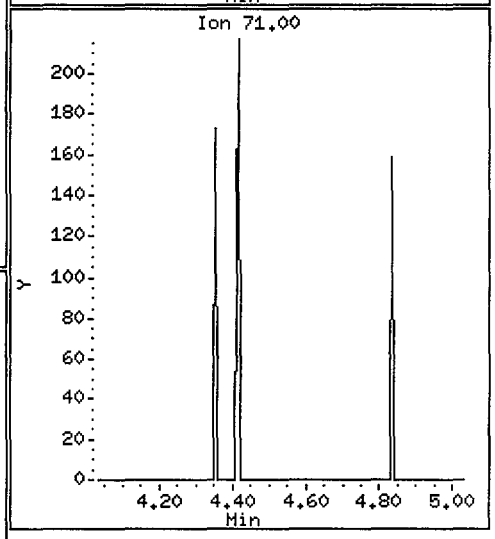
39 *THF

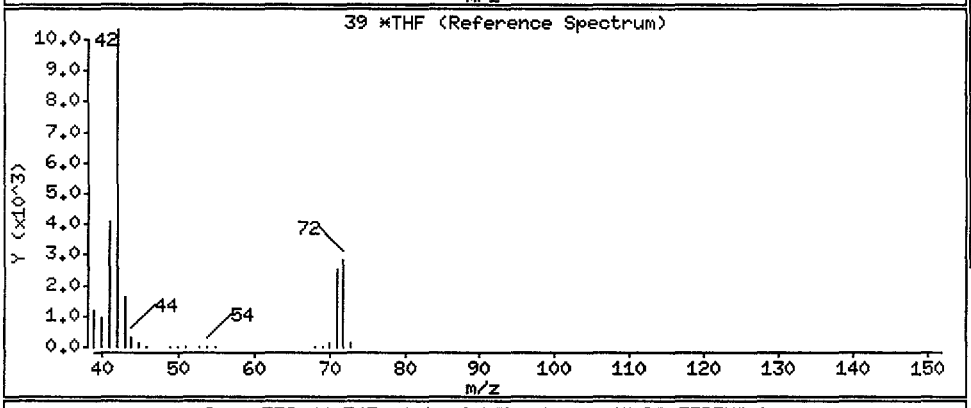
Concentration: 0.013514 ug

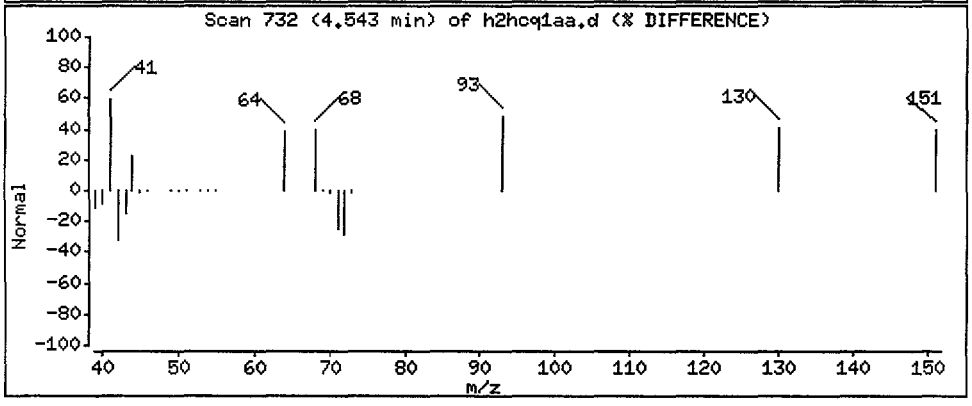












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

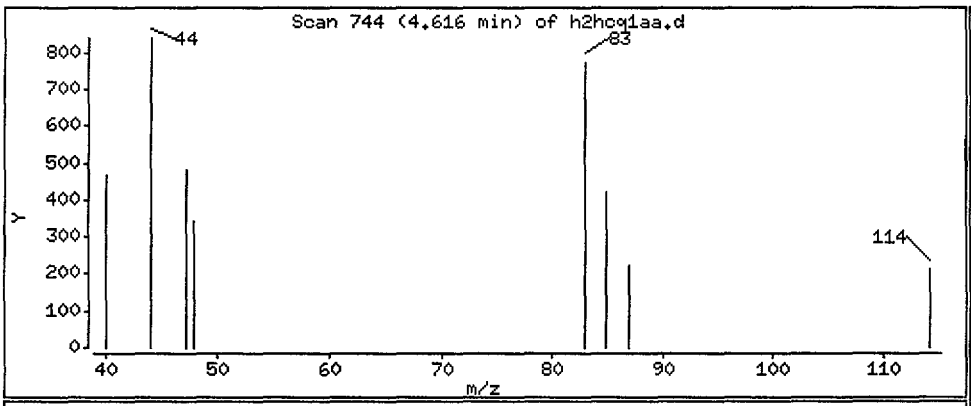
Operator: 22980

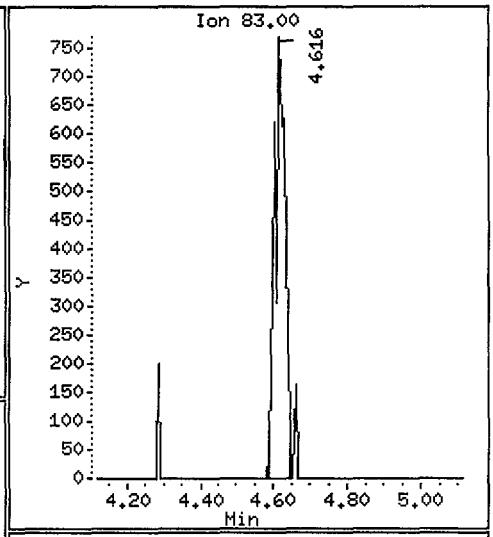
Column phase: J+W 624

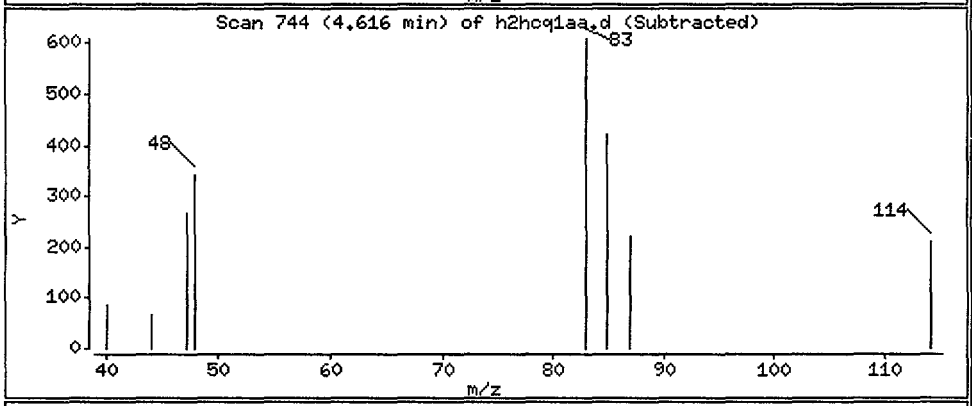
Column diameter: 0.18

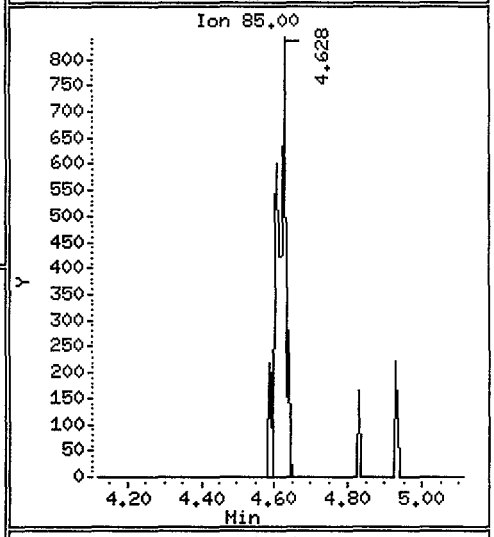
40 Chloroform (ccc)

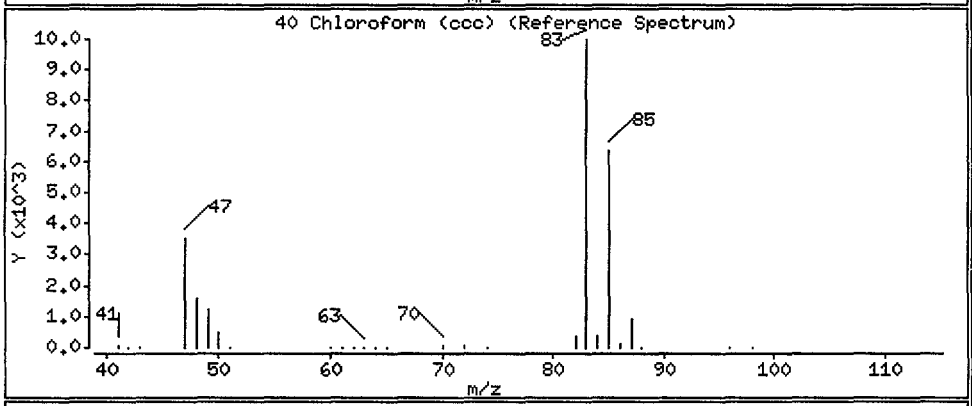
Concentration: 0.0015820 ug

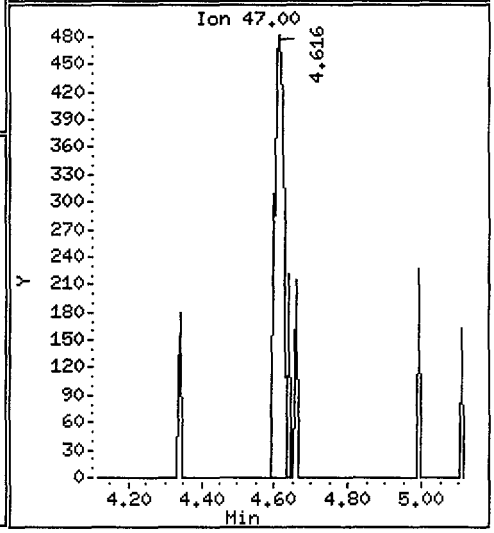


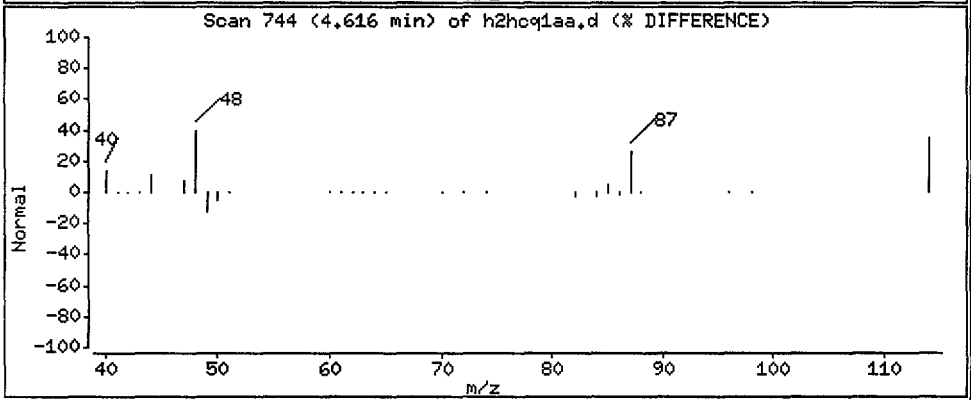












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

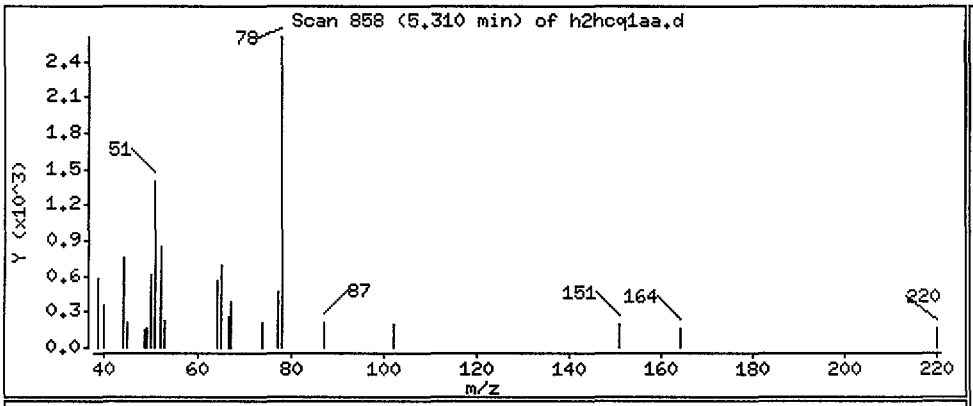
Operator: 22980

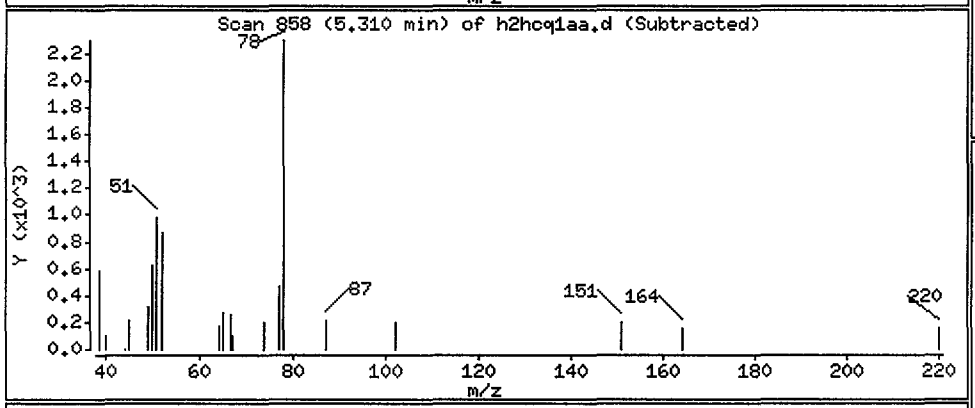
Column phase: J+W 624

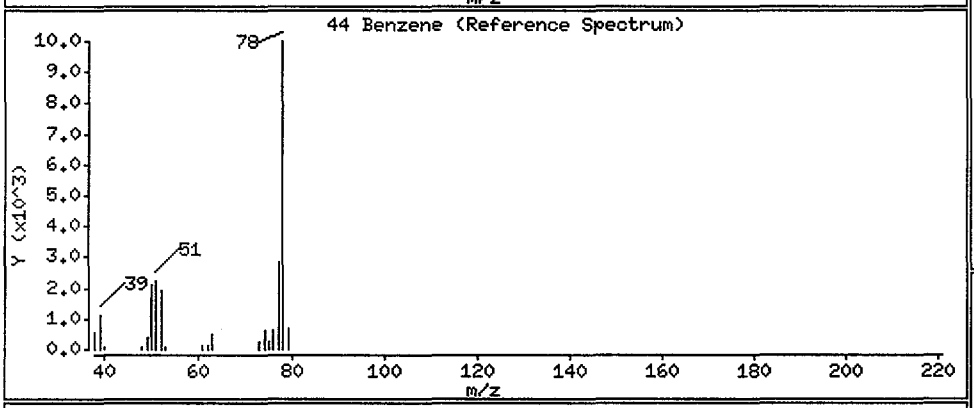
Column diameter: 0.18

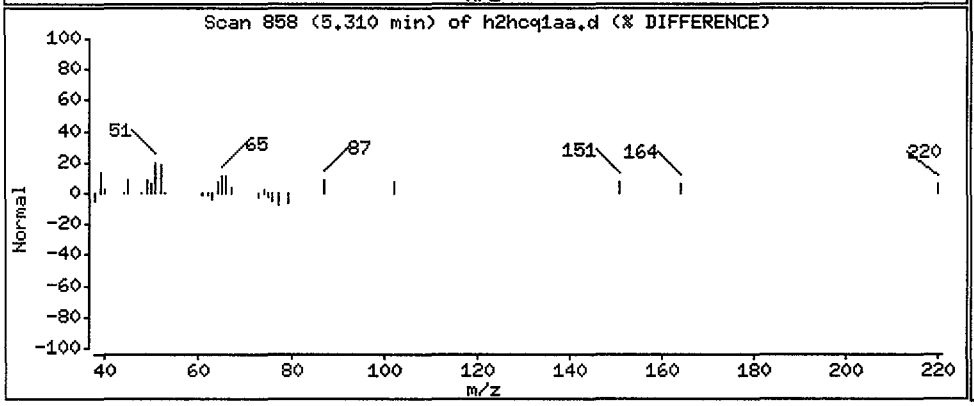
44 Benzene

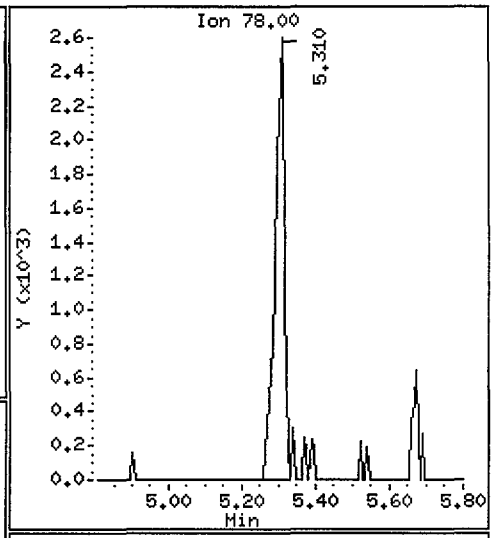
Concentration: 0.0016993 ug

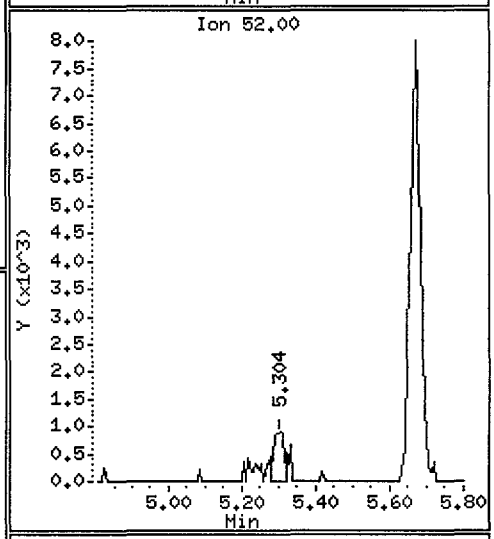


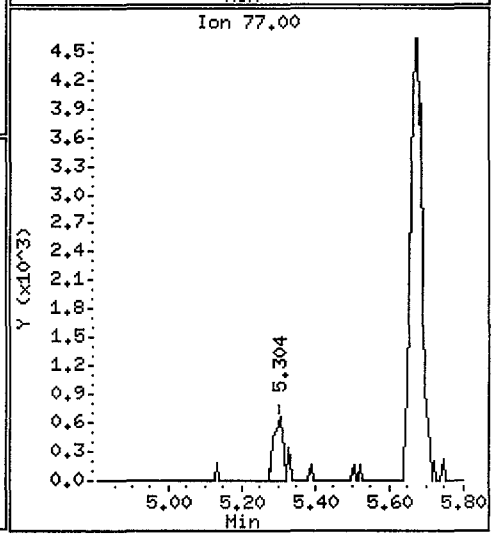












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

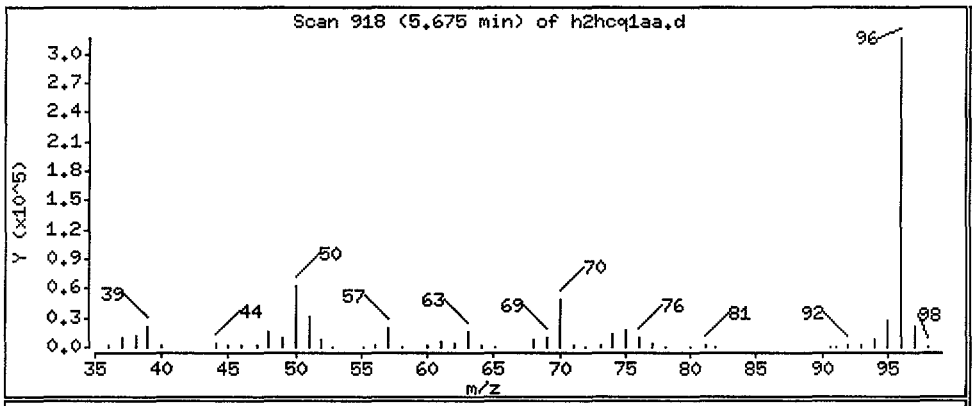
Operator: 22980

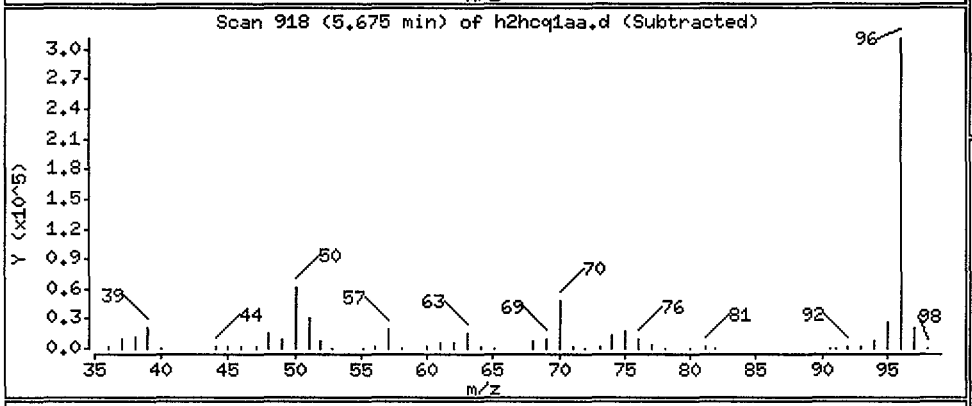
Column phase: J+W 624

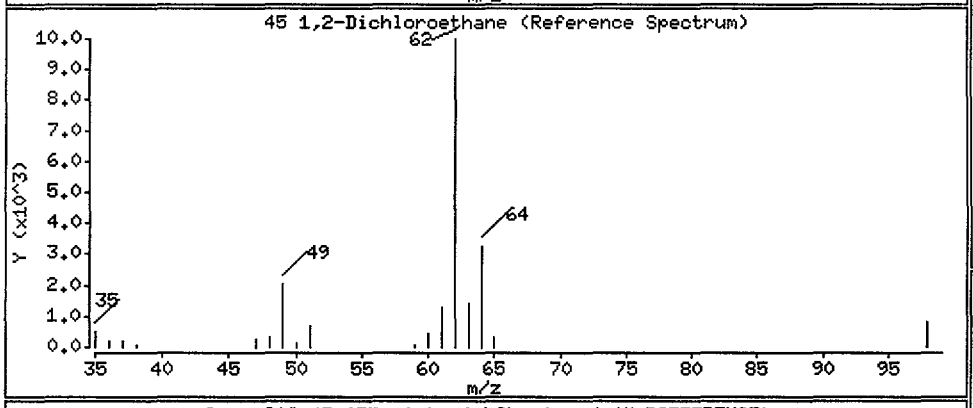
Column diameter: 0.18

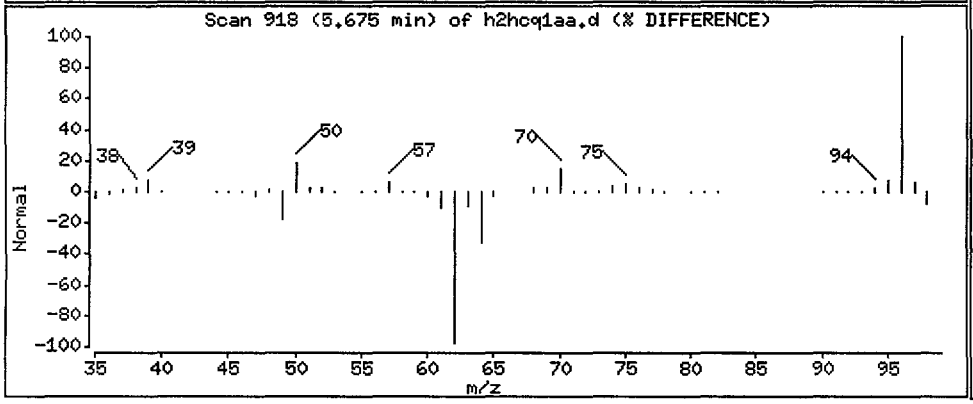
45 1,2-Dichloroethane

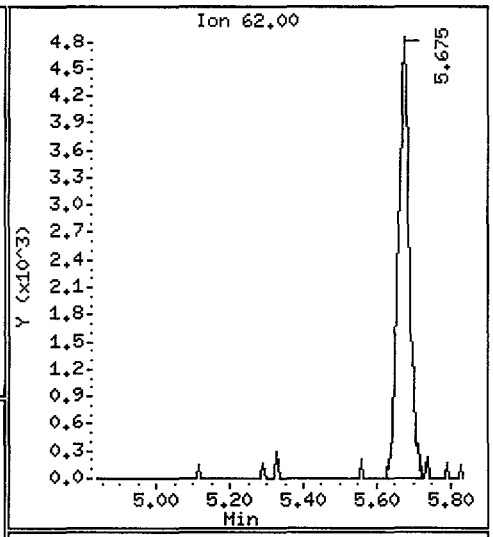
Concentration: 0.018888 ug

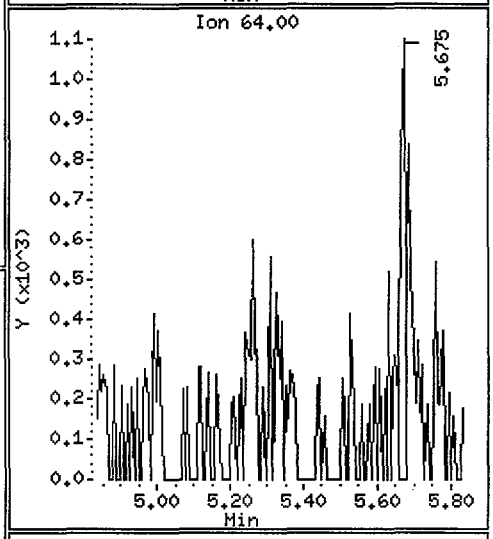


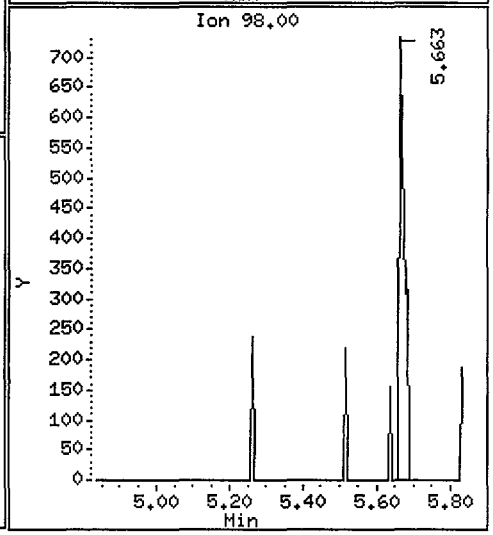












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

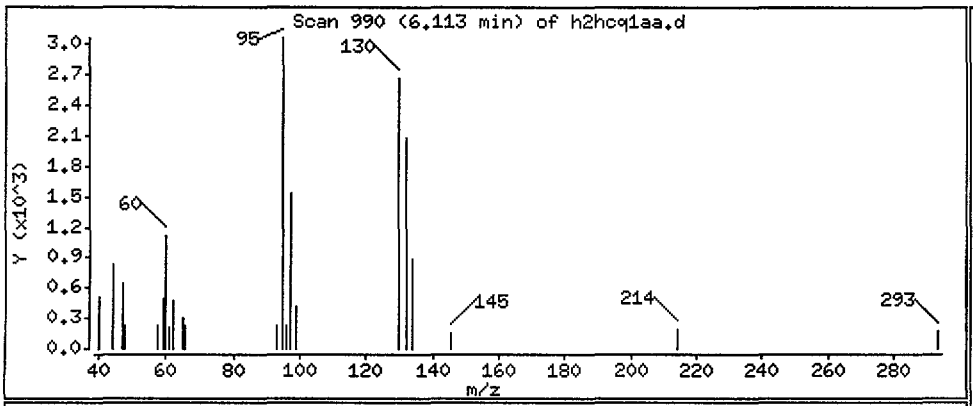
Operator: 22980

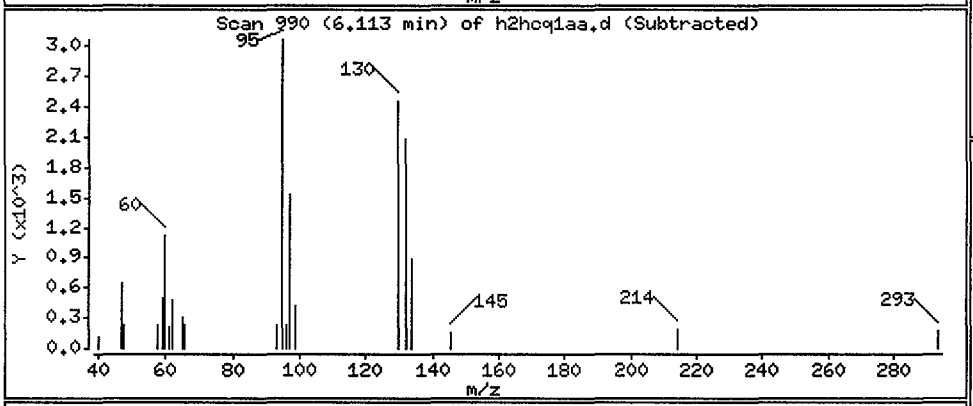
Column phase: J+W 624

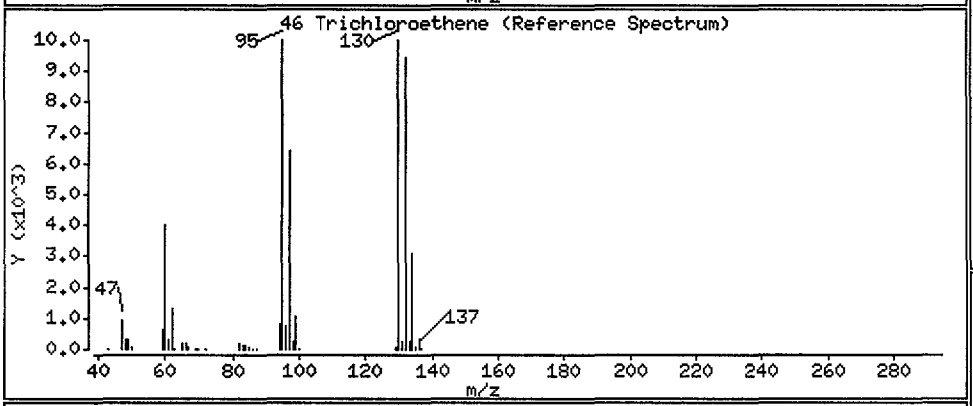
Column diameter: 0.18

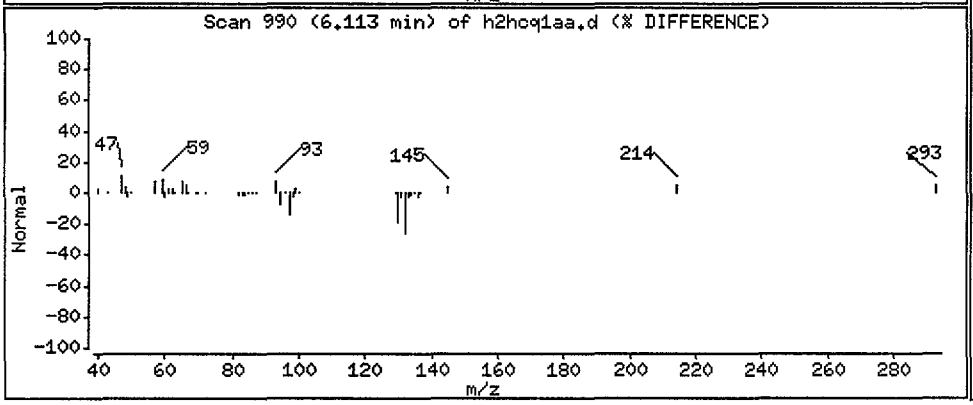
46 Trichloroethene

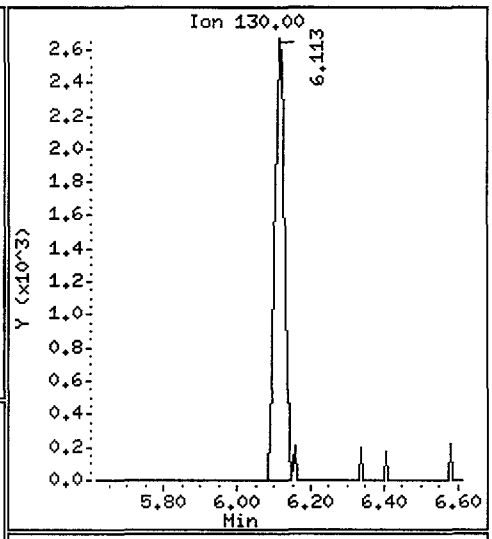
Concentration: 0.0066739 ug

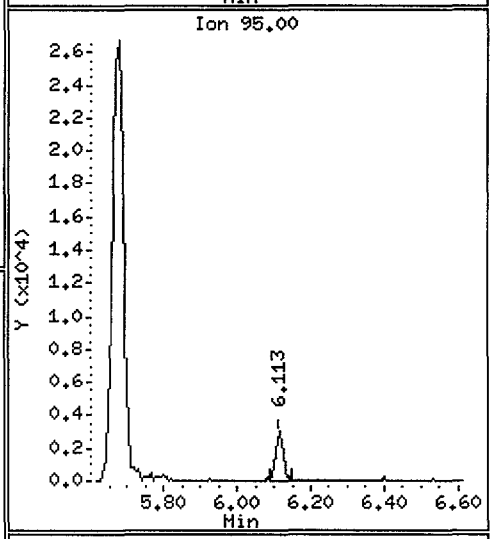


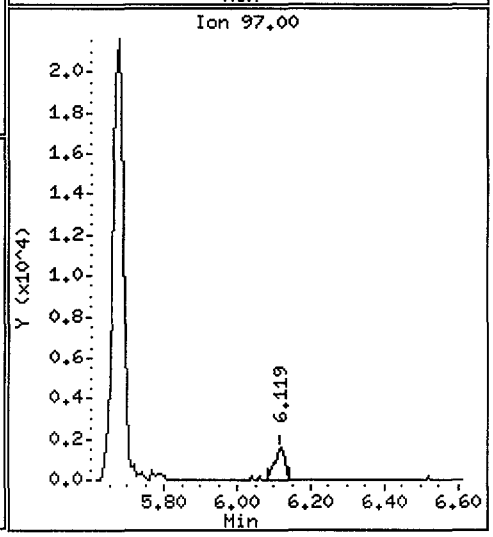












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

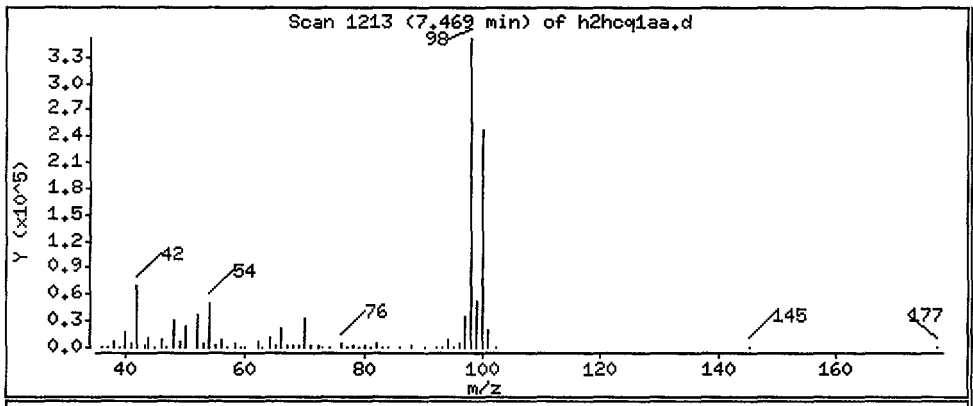
Operator: 22980

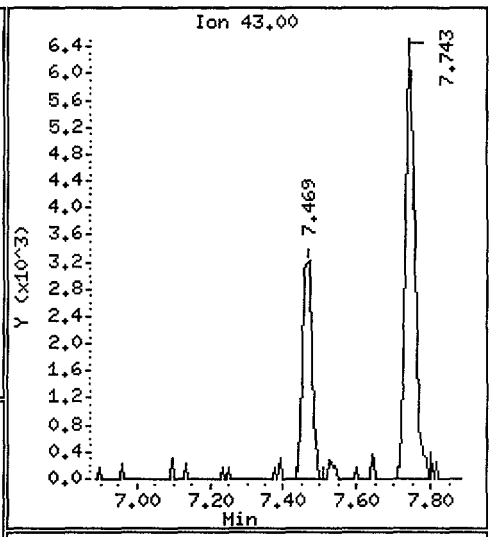
Column phase: J+W 624

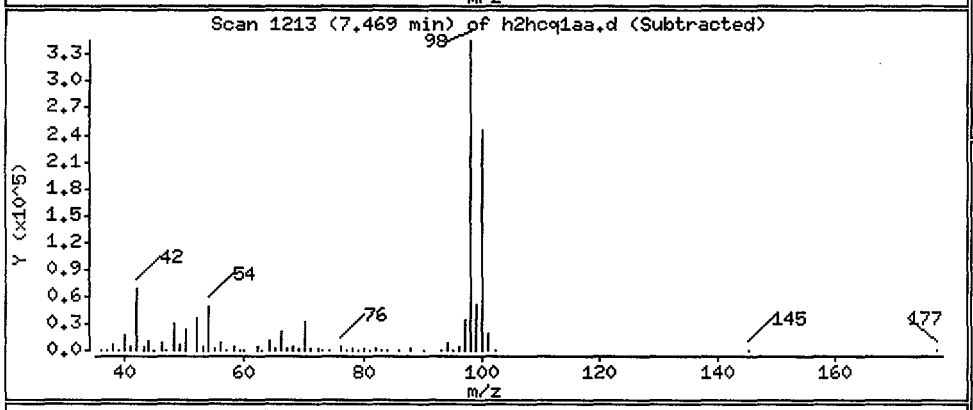
Column diameter: 0.18

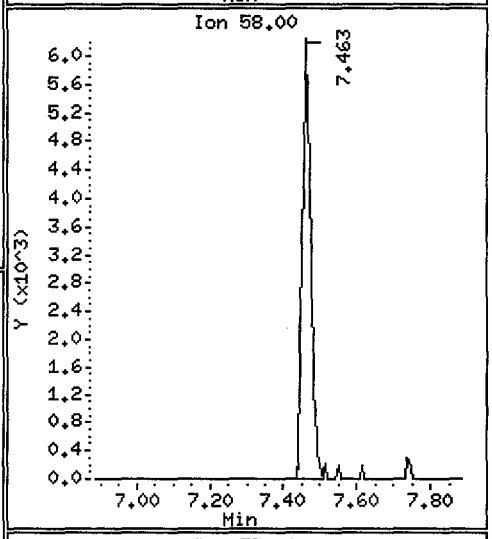
53 4-Methyl-2-pentanone

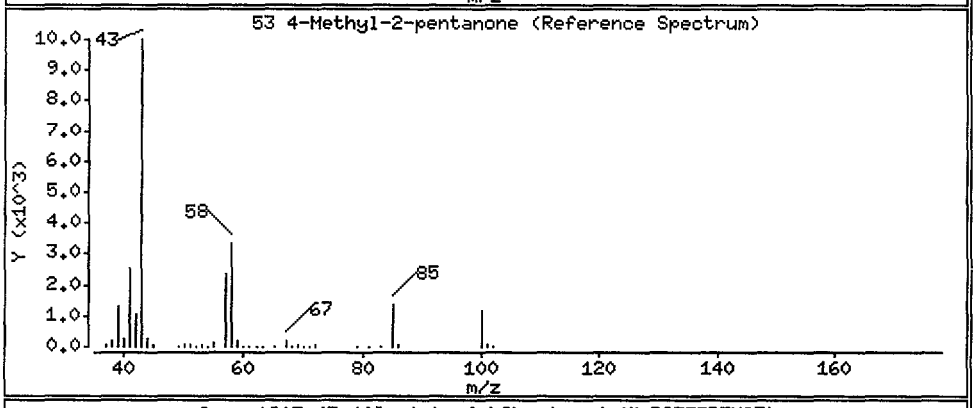
Concentration: 0.024514 ug

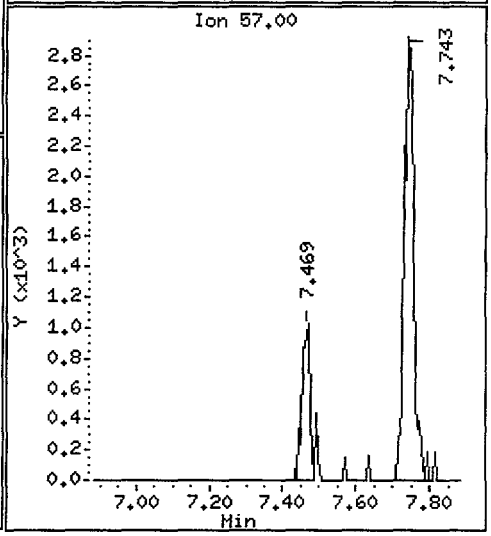


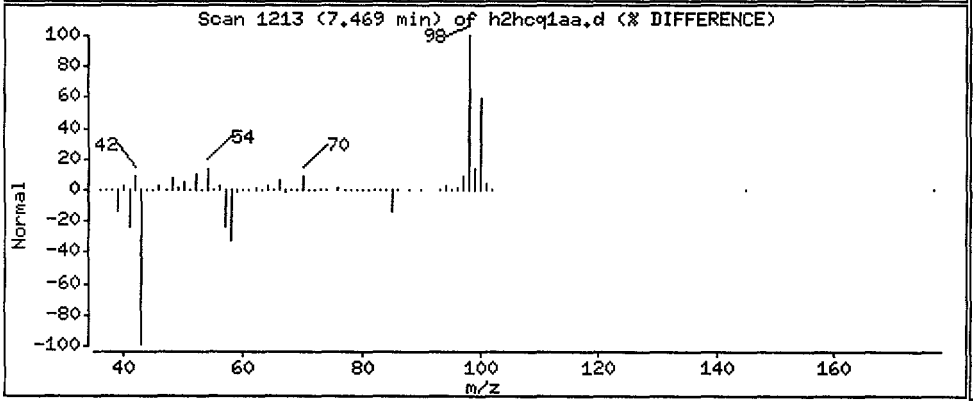












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

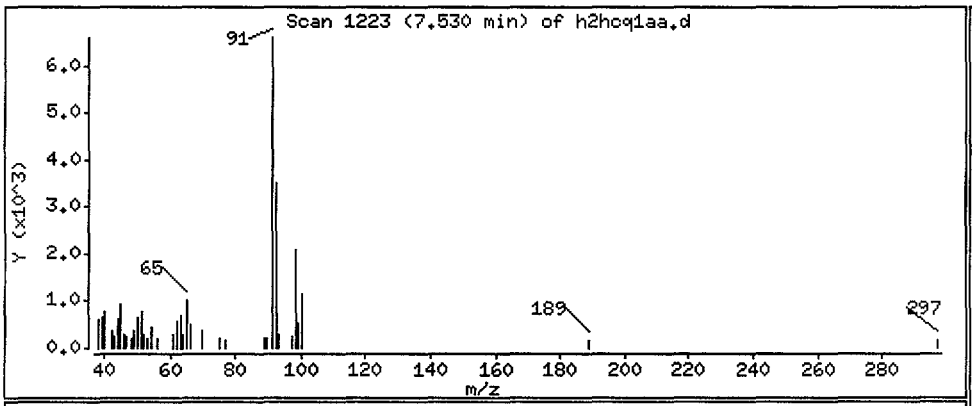
Operator: 22980

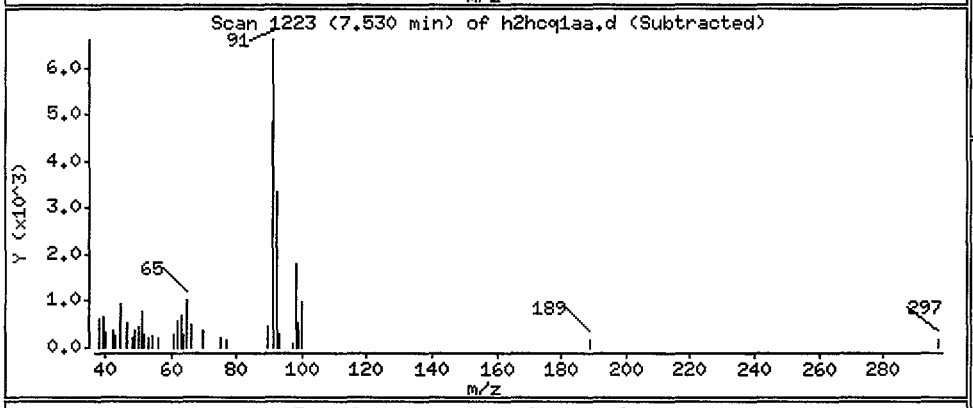
Column phase: J+W 624

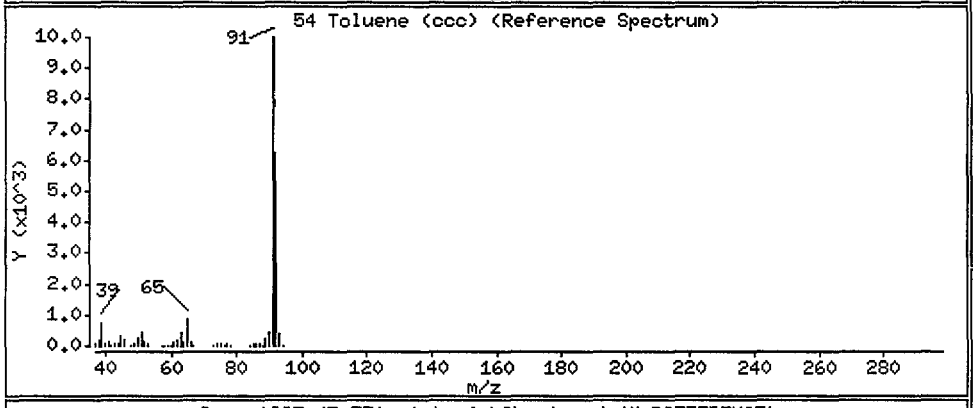
Column diameter: 0.18

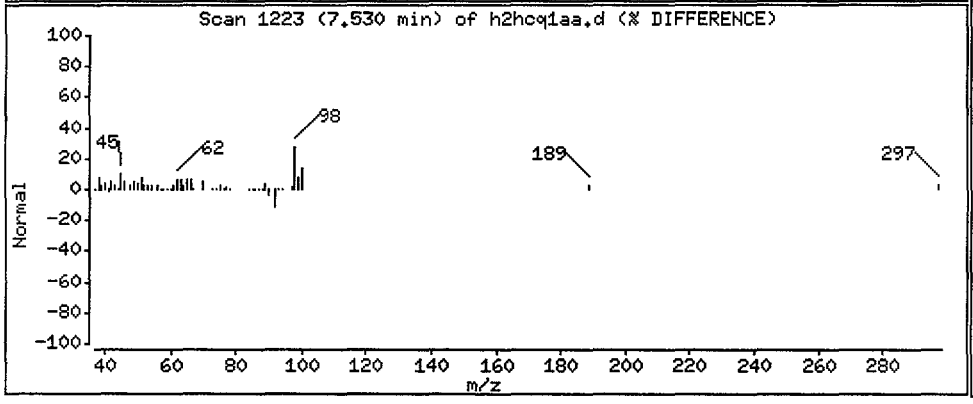
54 Toluene (ccc)

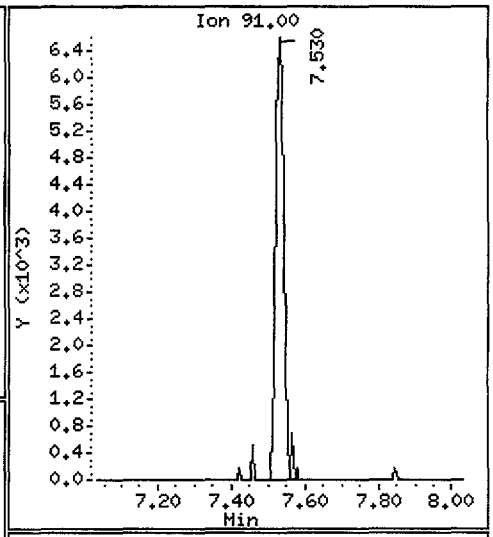
Concentration: 0.0025365 ug

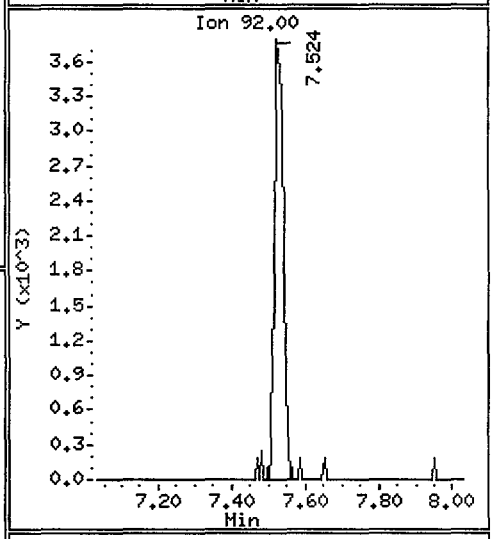


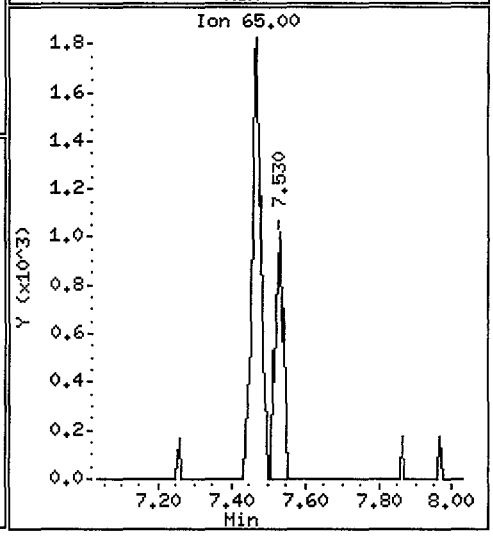












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

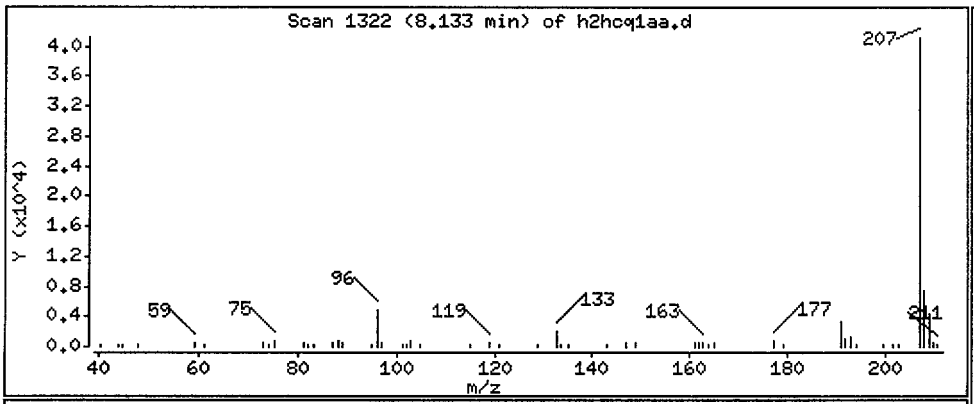
Operator: 22980

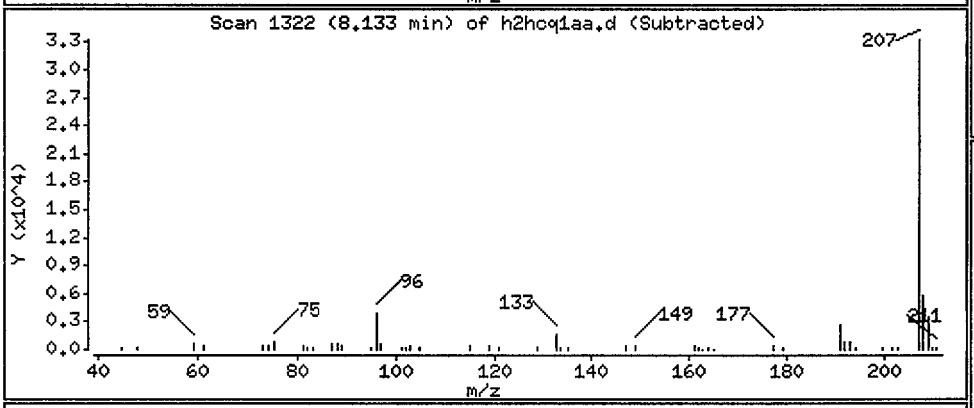
Column phase: J+W 624

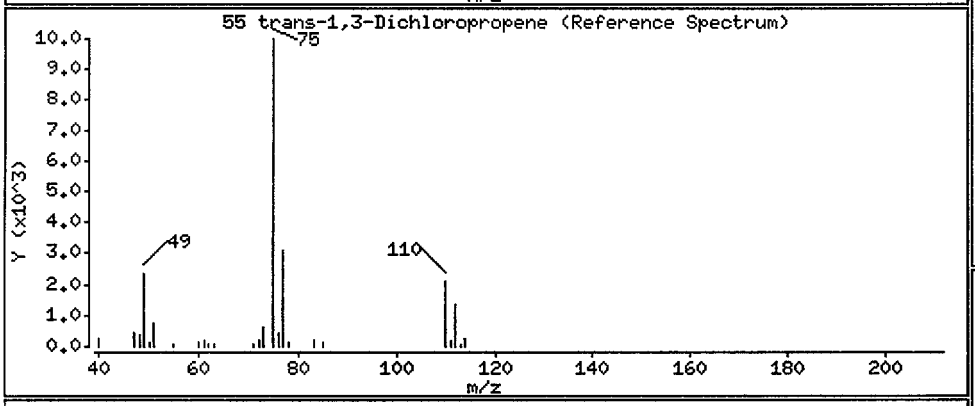
Column diameter: 0.18

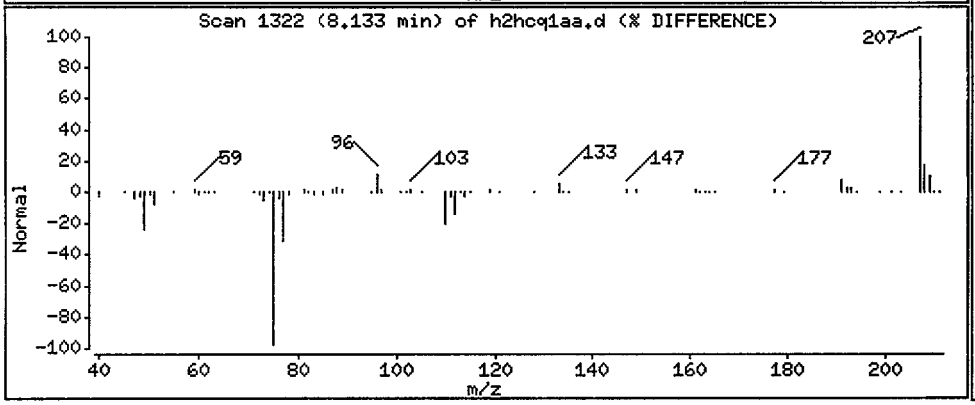
55 trans-1,3-Dichloropropene

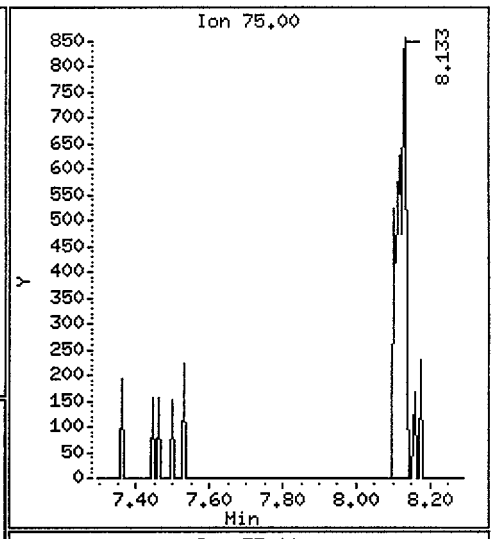
Concentration: 0.017913 ug

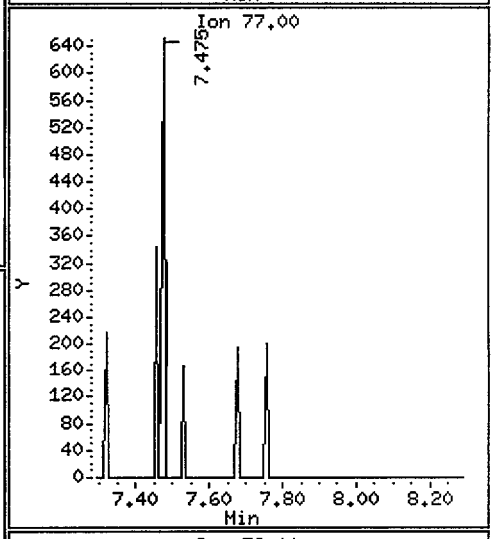


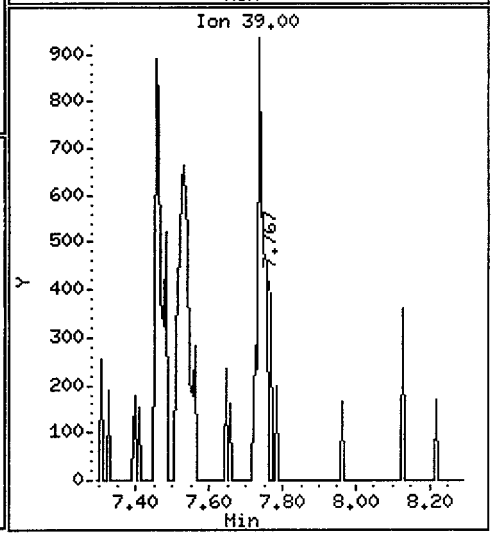












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

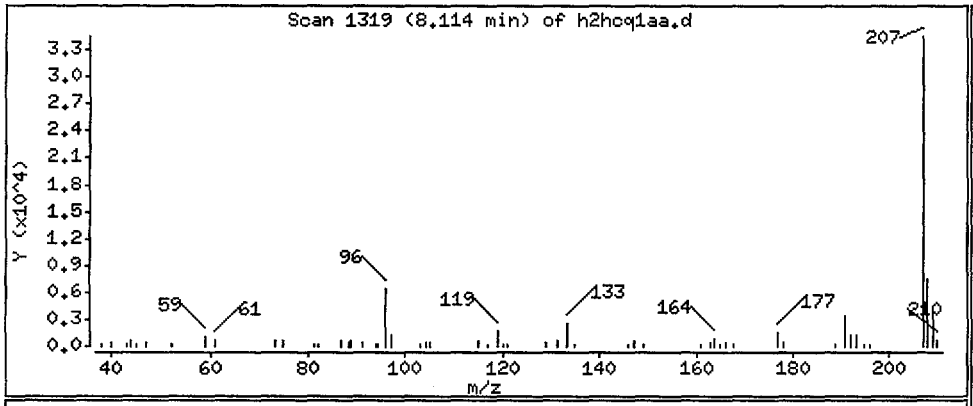
Operator: 22980

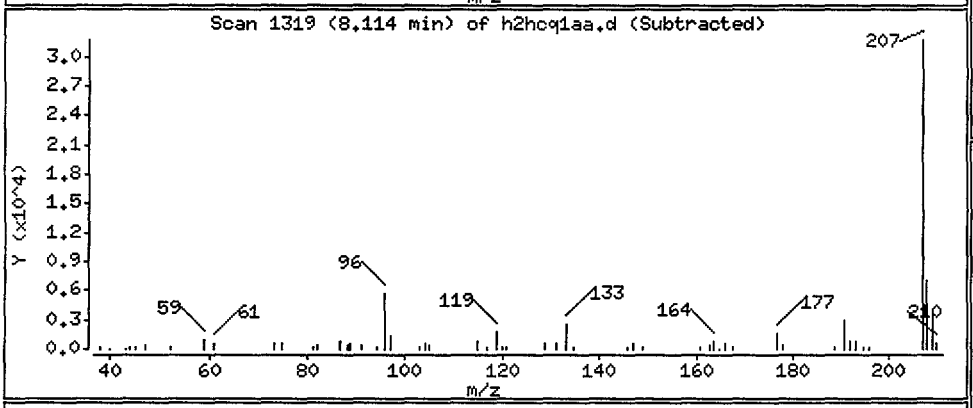
Column phase: J+W 624

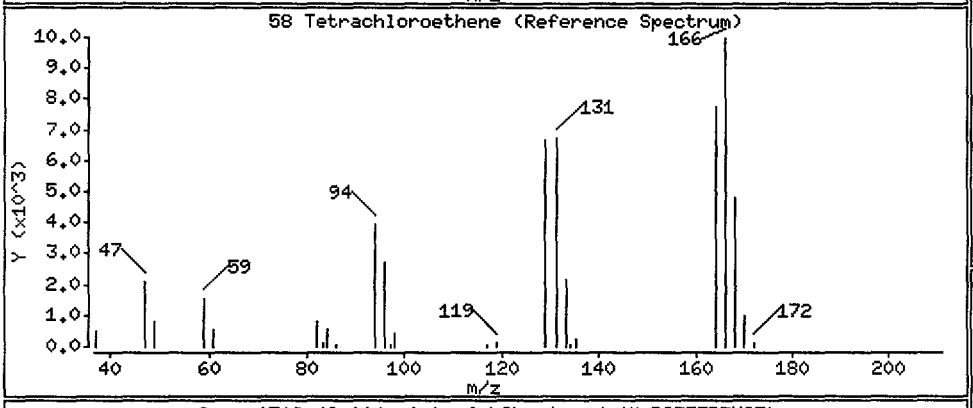
Column diameter: 0.18

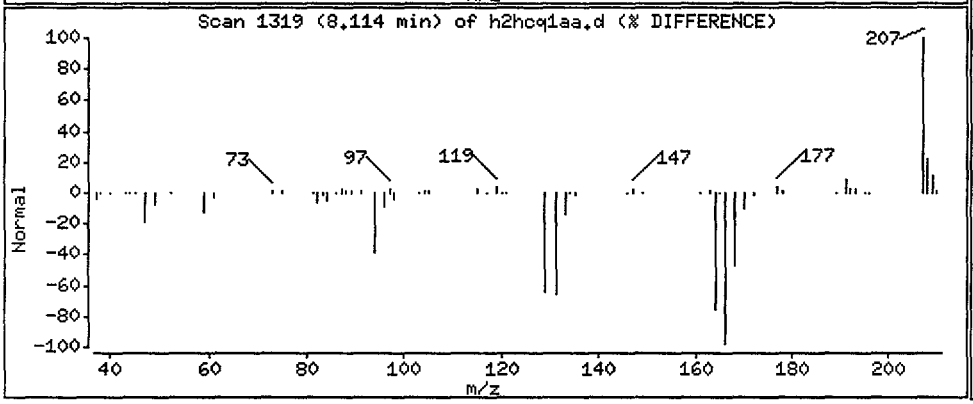
58 Tetrachloroethene

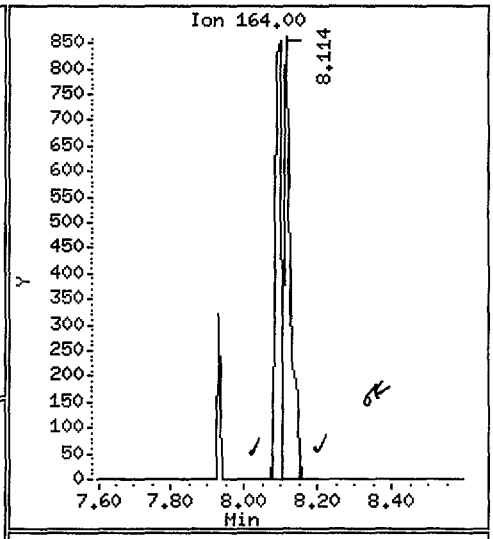
Concentration: 0.0023708 ug

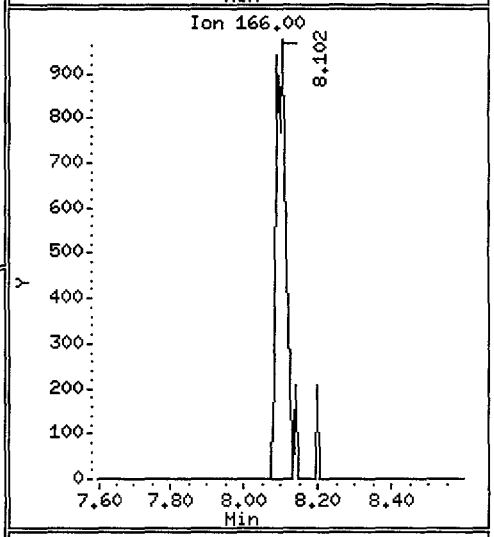


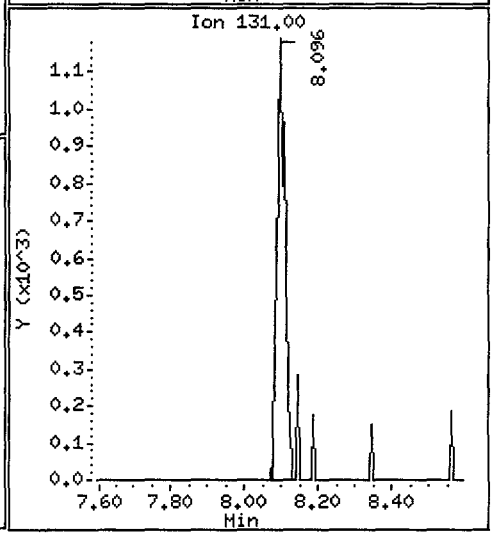












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

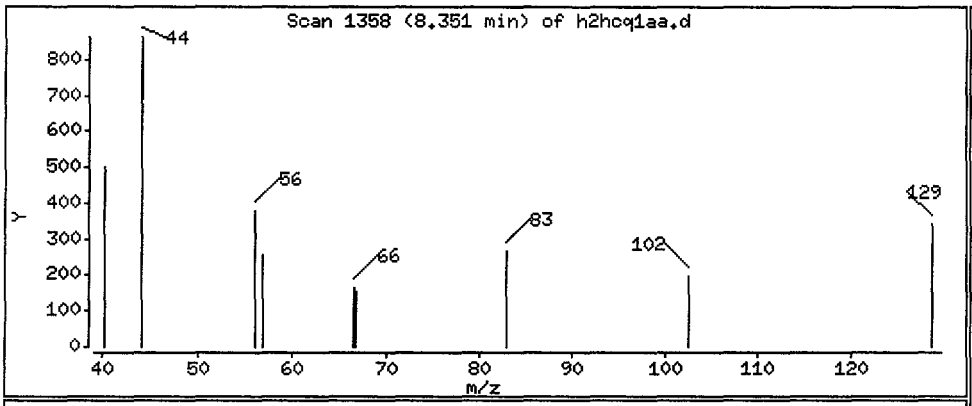
Operator: 22980

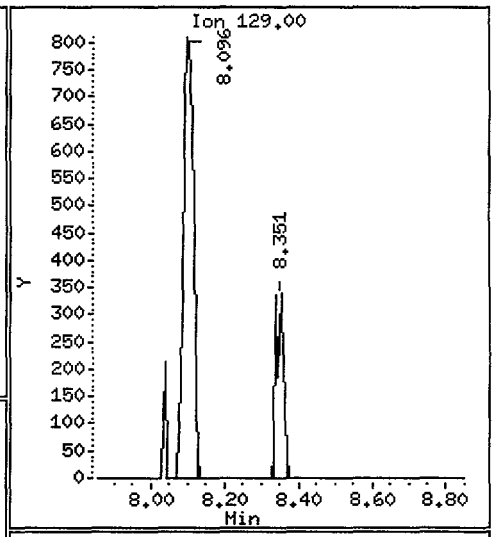
Column phase: J+W 624

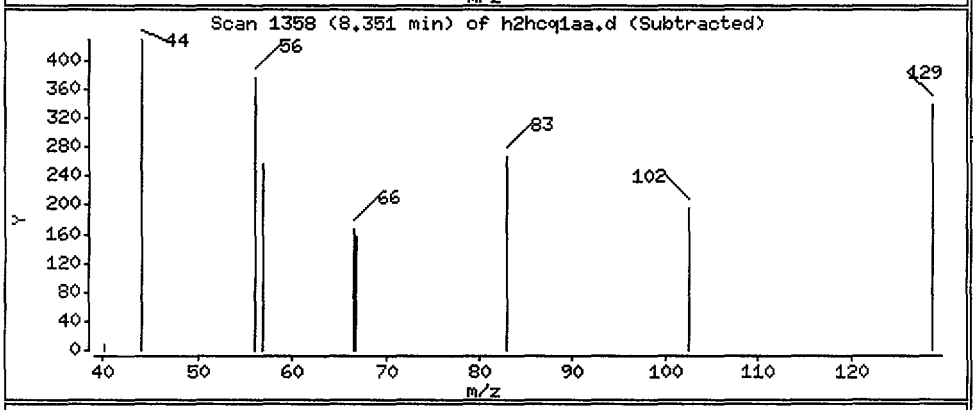
Column diameter: 0.18

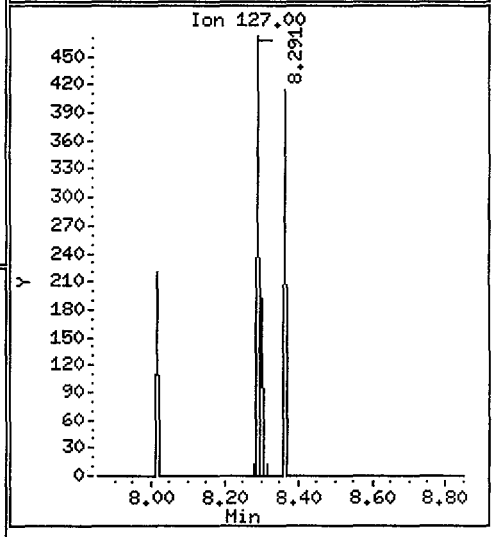
61 Chlorodibromomethane

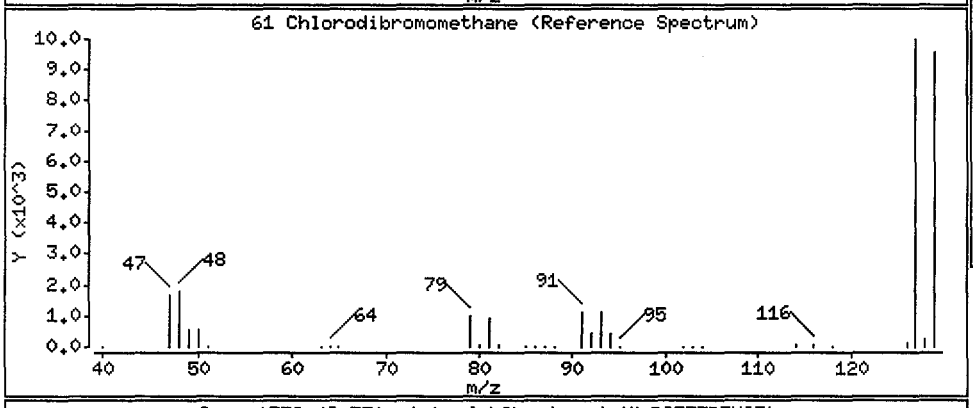
Concentration: 0.020513 ug

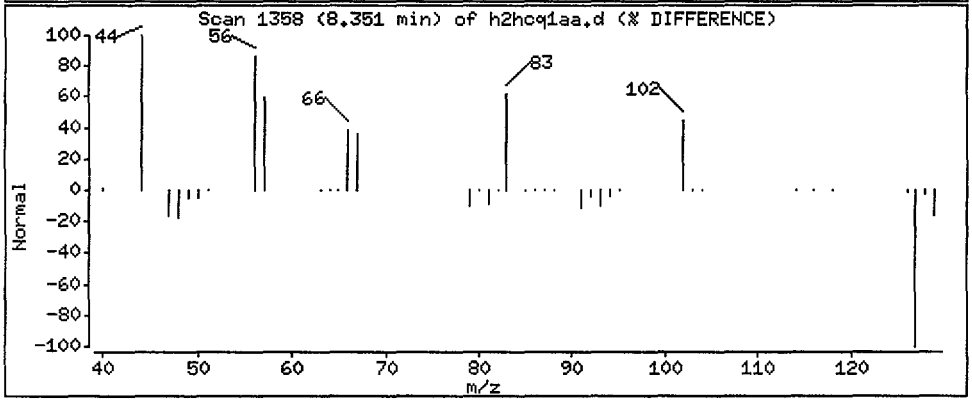












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

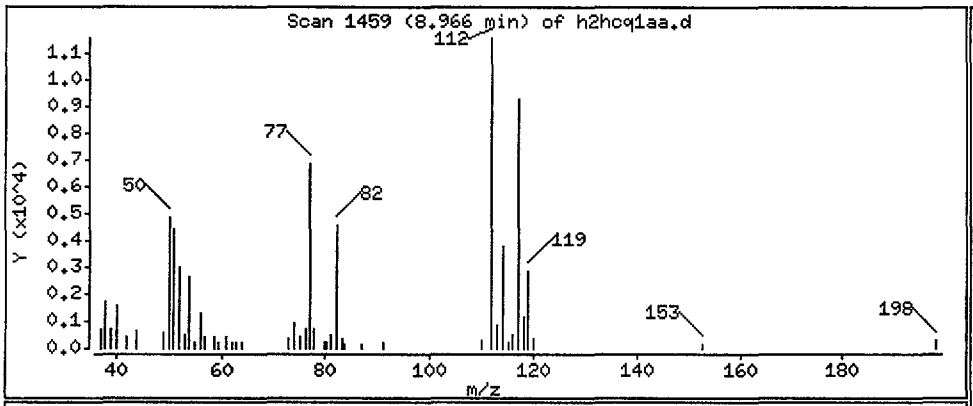
Operator: 22980

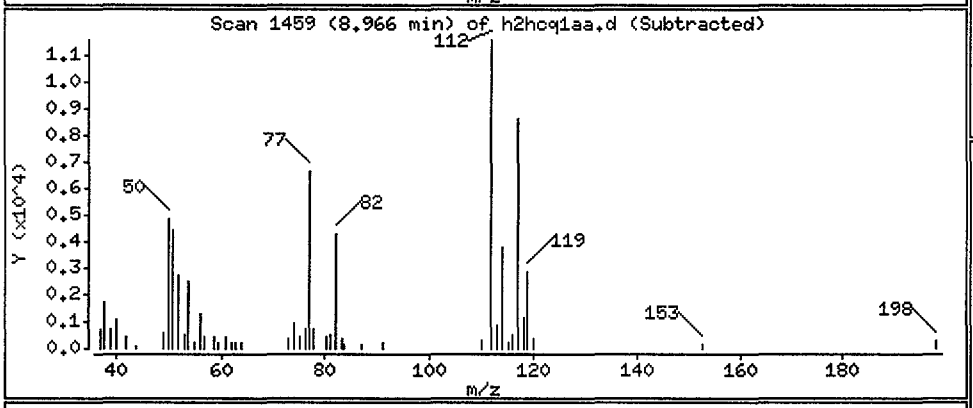
Column phase: J+W 624

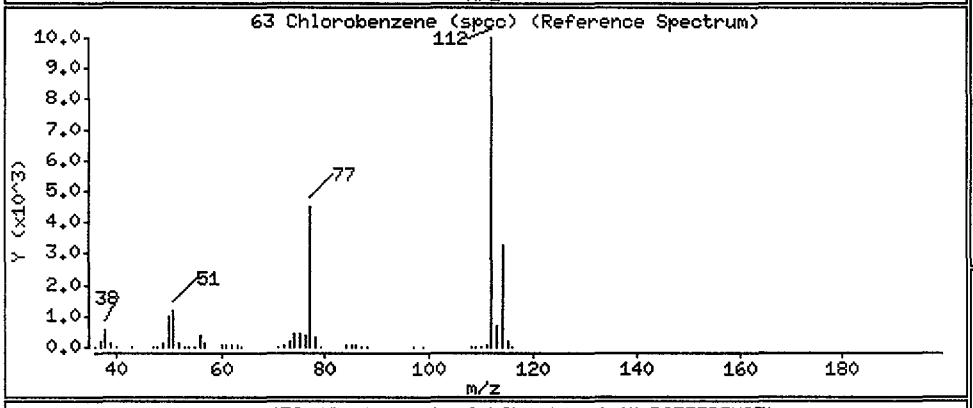
Column diameter: 0.18

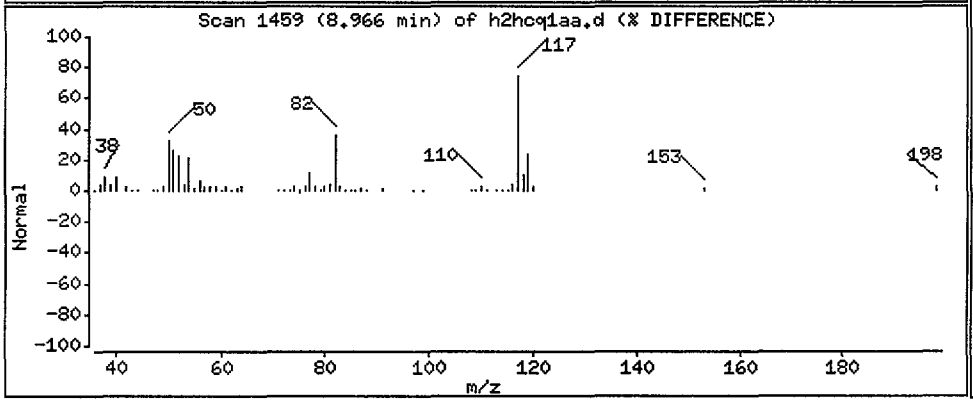
63 Chlorobenzene (spcc)

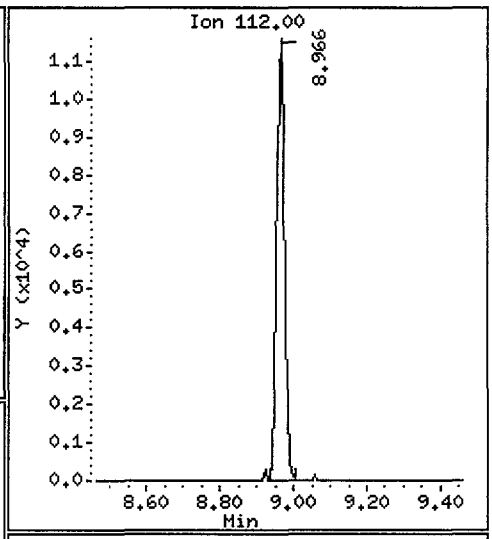
Concentration: 0.0076614 ug

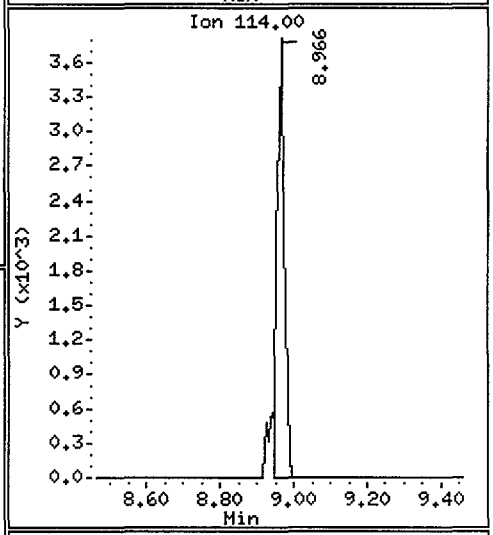


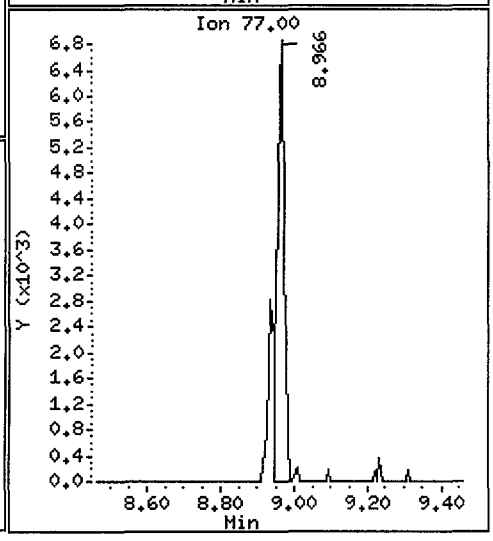












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

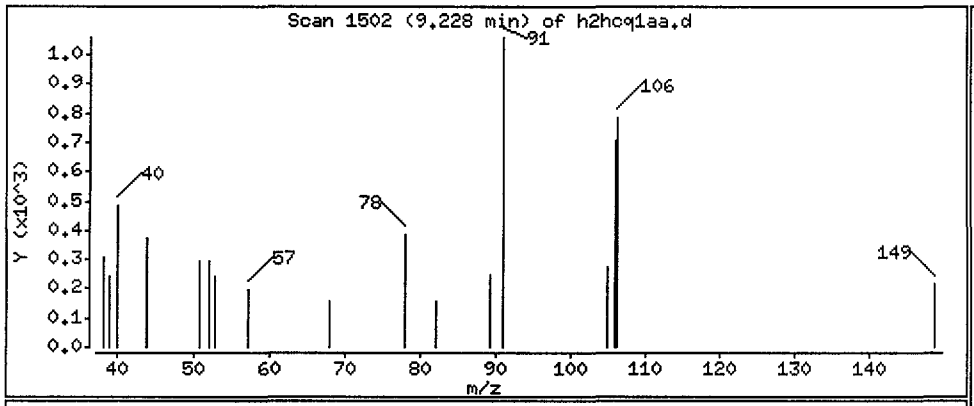
Operator: 22980

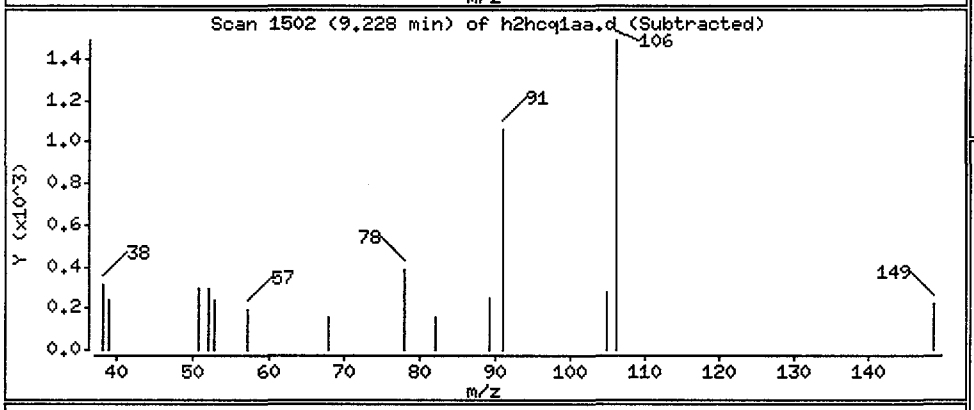
Column phase: J+W 624

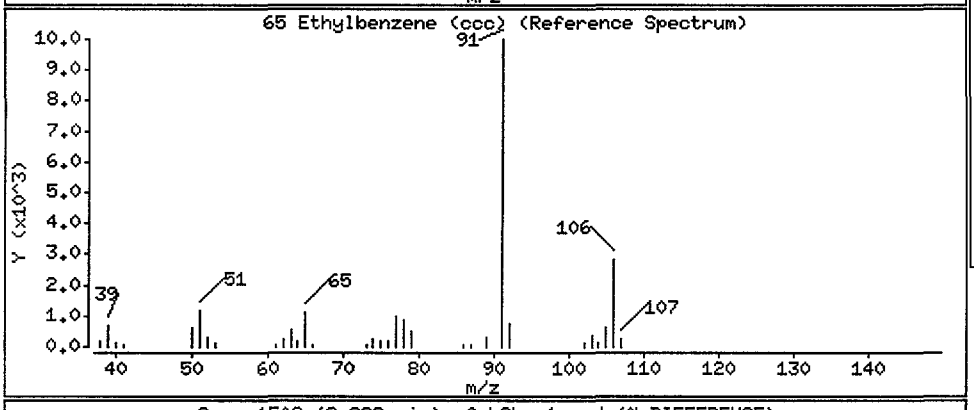
Column diameter: 0.18

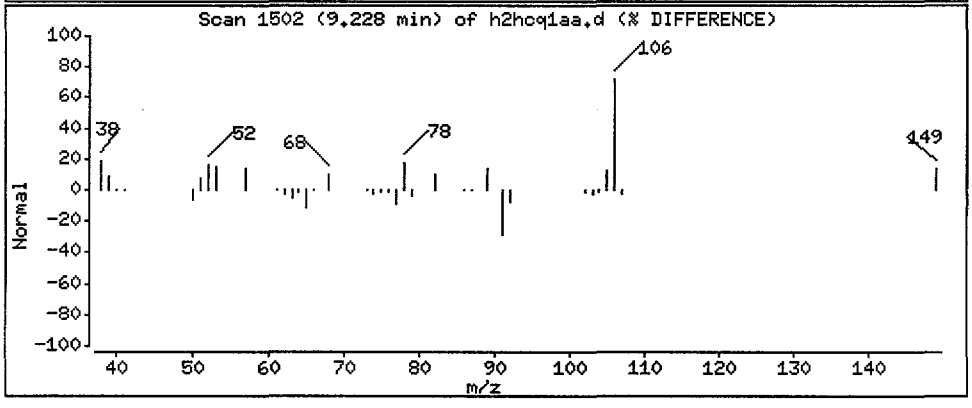
65 Ethylbenzene (ccc)

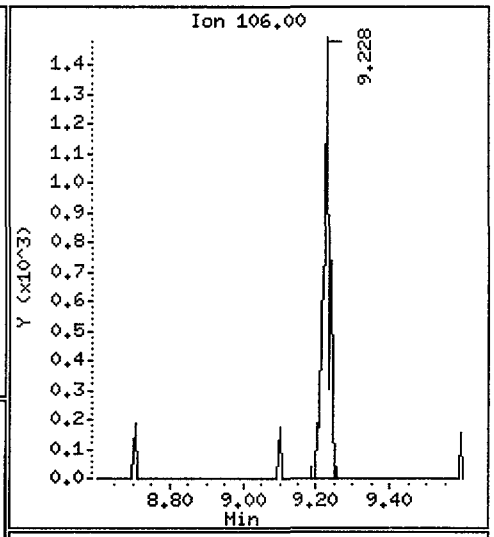
Concentration: 0.0011625 ug

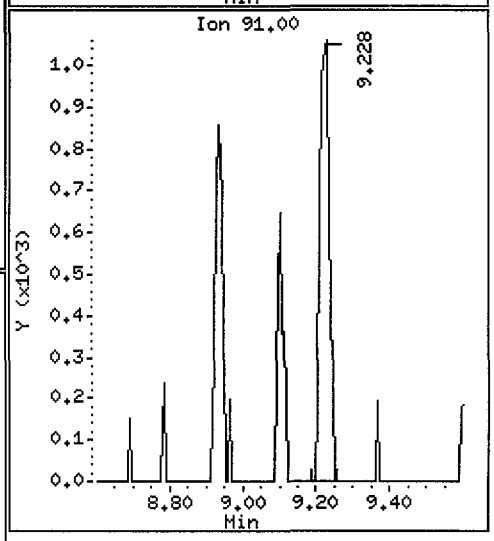












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

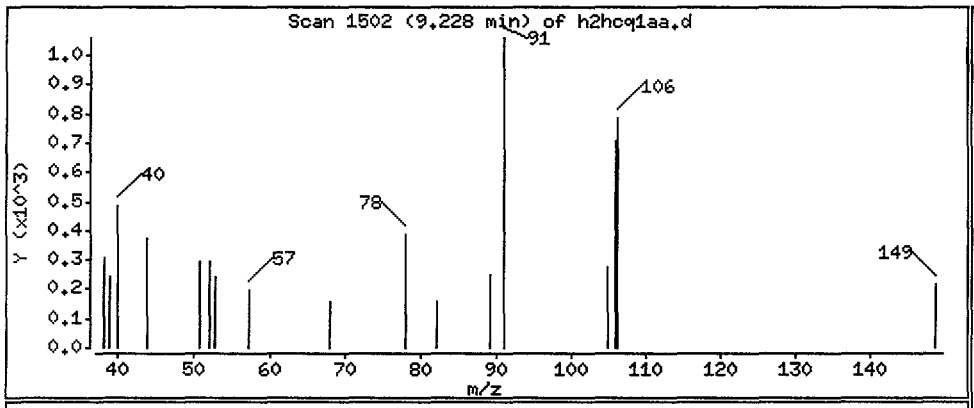
Operator: 22980

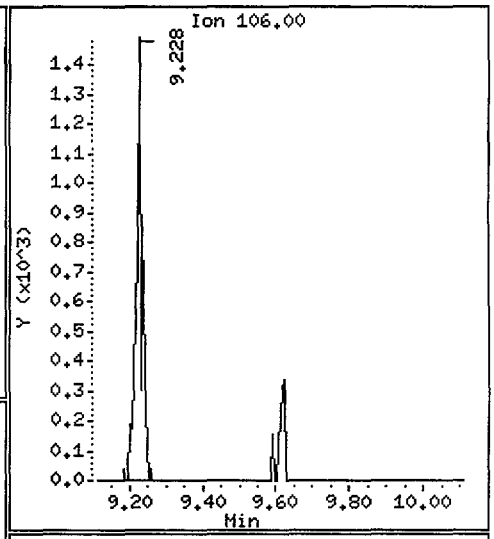
Column phase: J+W 624

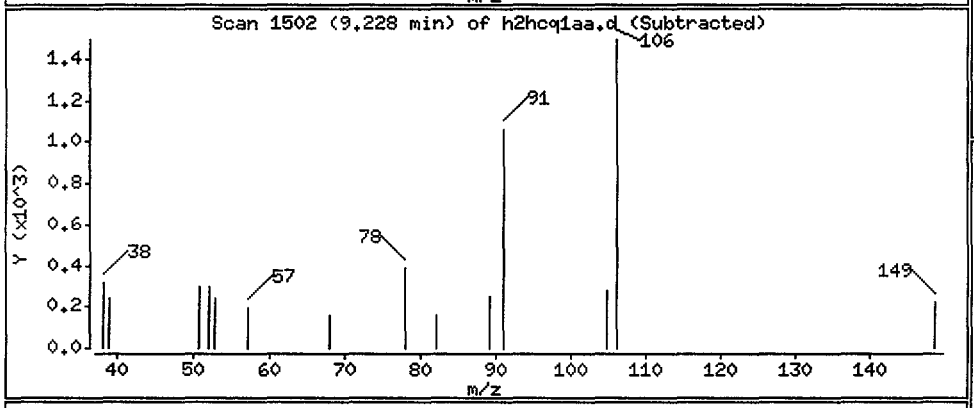
Column diameter: 0.18

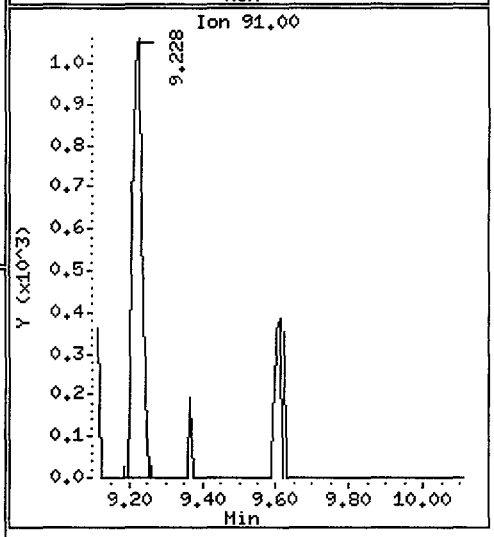
67 o-Xylene

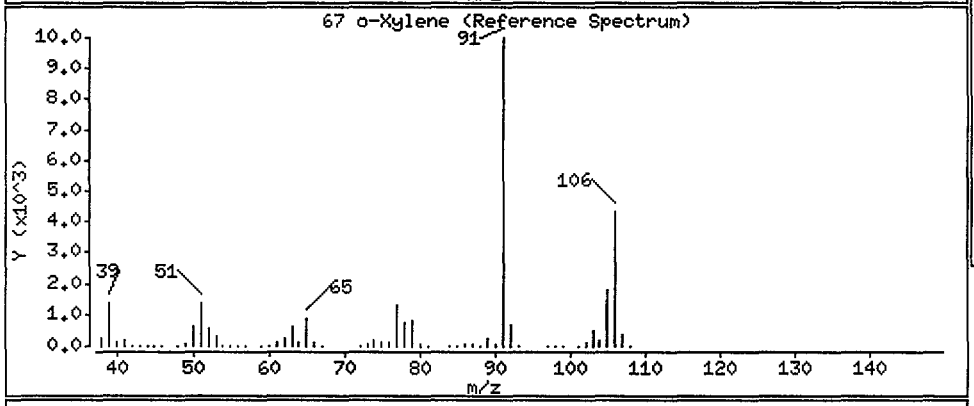
Concentration: 0.0010888 ug

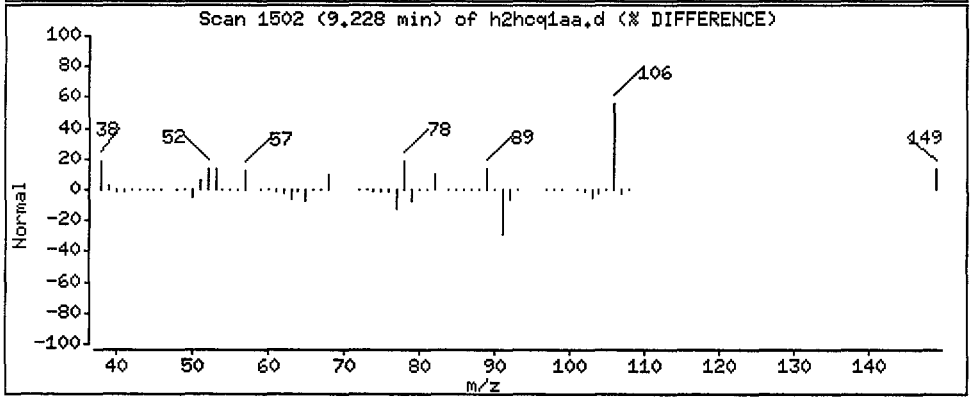












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

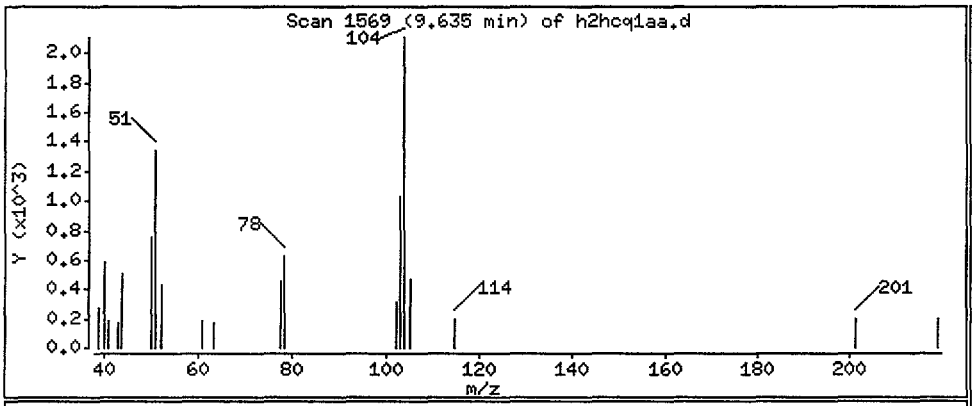
Operator: 22980

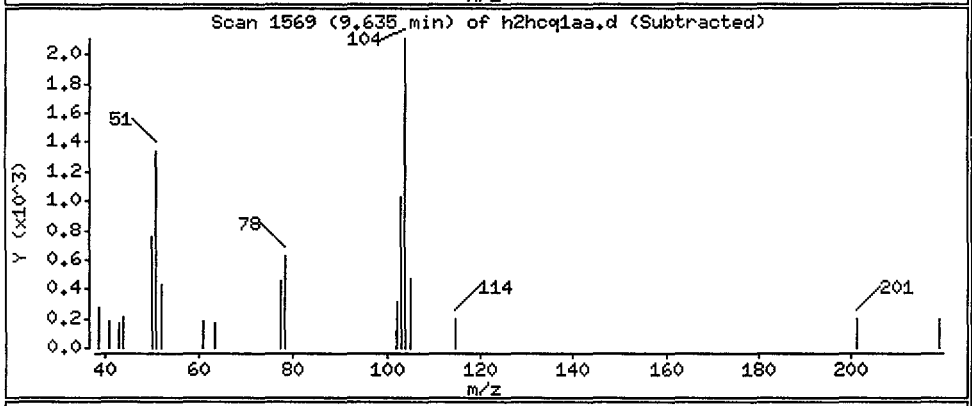
Column phase: J+W 624

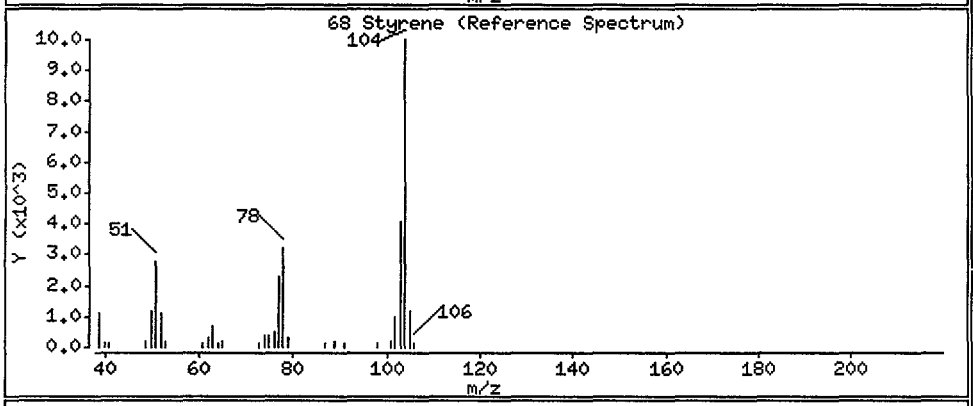
Column diameter: 0.18

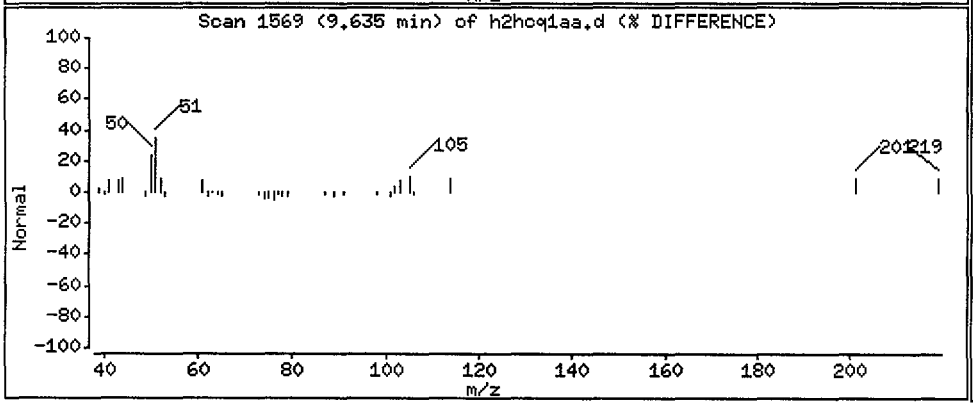
68 Styrene

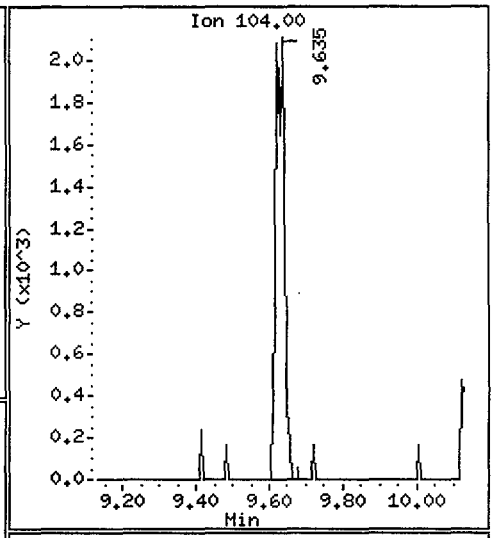
Concentration: 0.0016075 ug

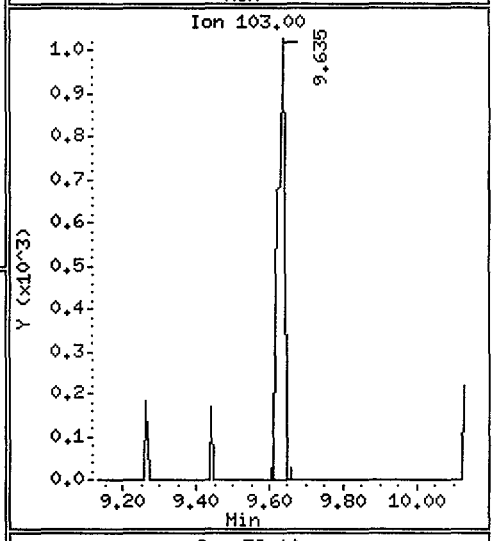


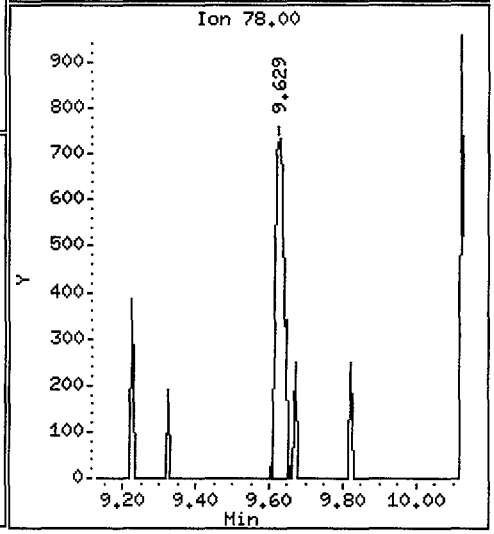












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

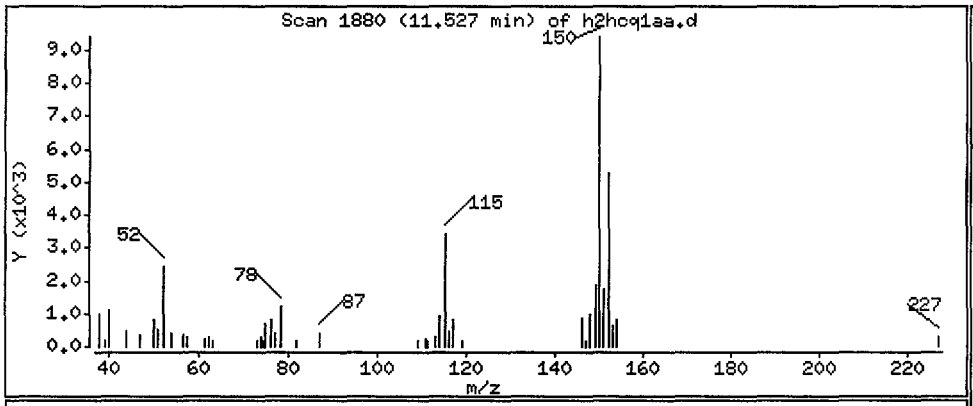
Operator: 22980

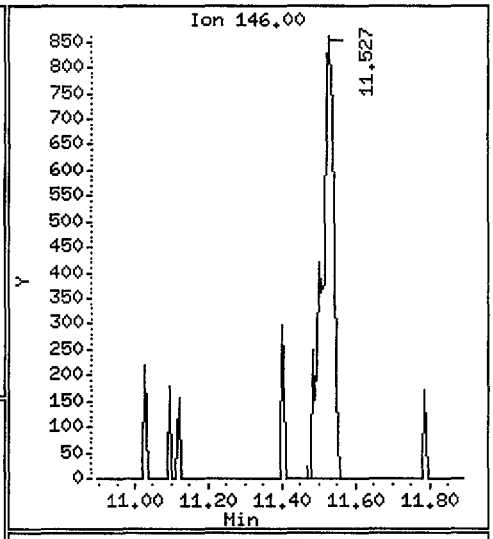
Column phase: J+W 624

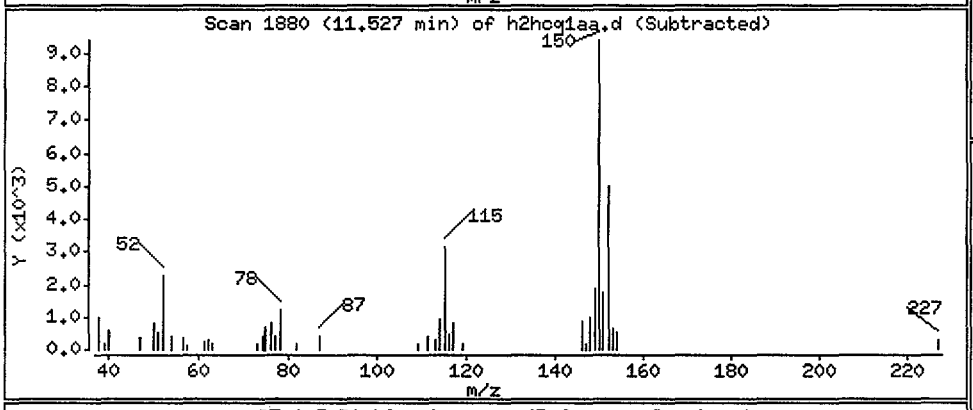
Column diameter: 0.18

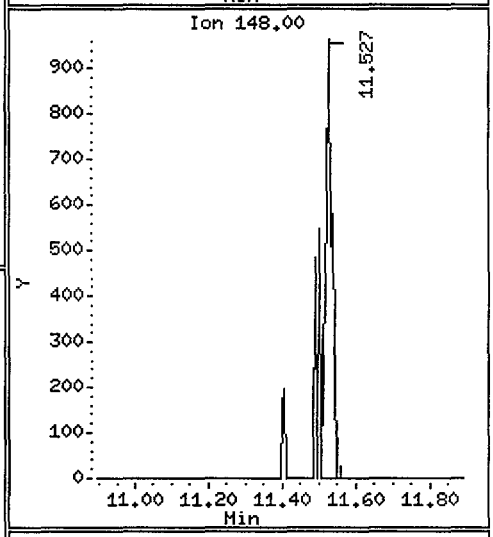
83 1,3-Dichlorobenzene

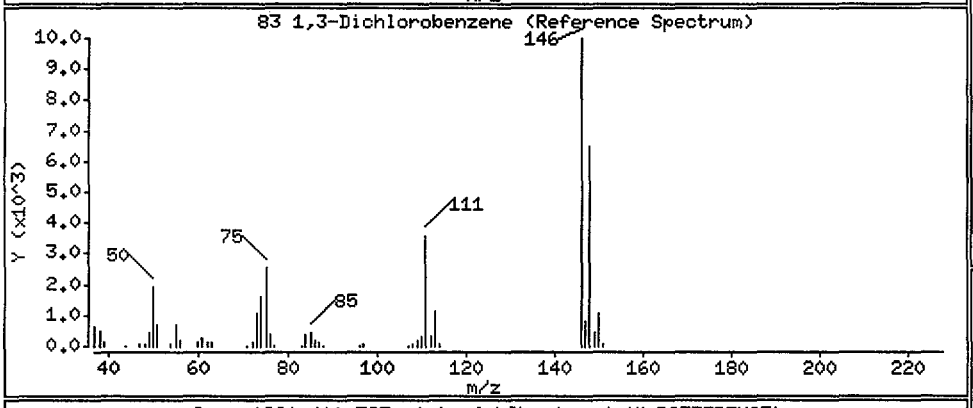
Concentration: 0.0012609 ug

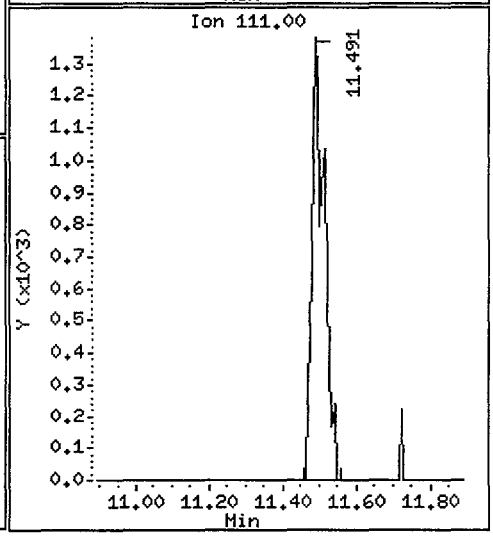


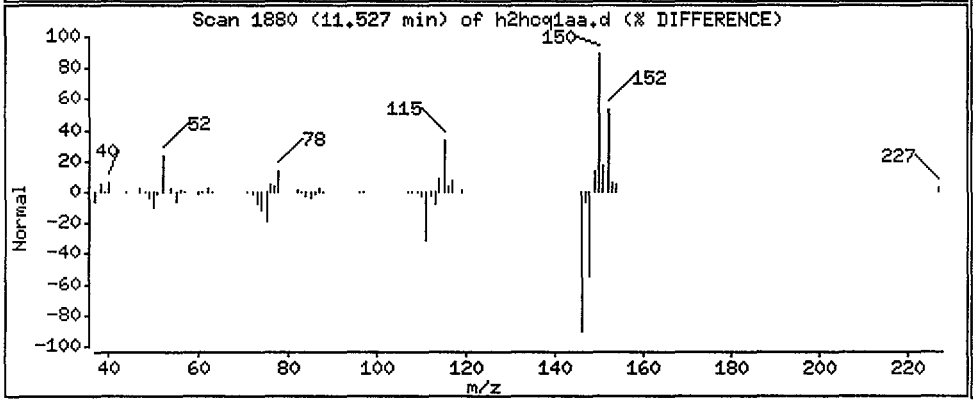












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

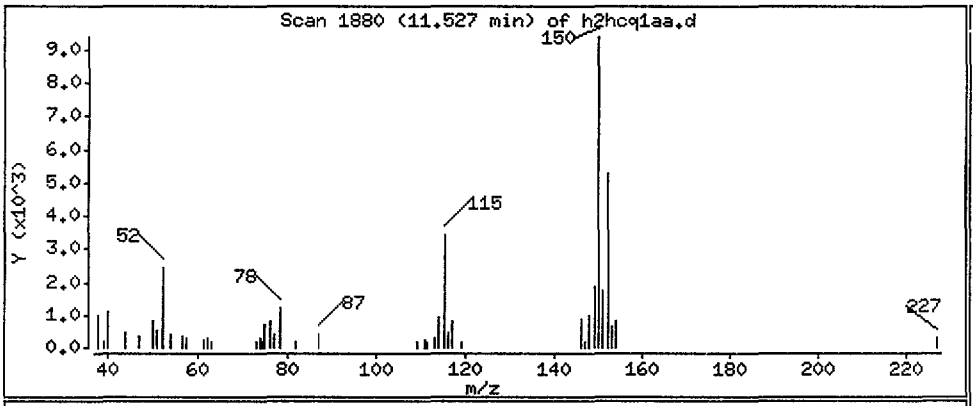
Operator: 22980

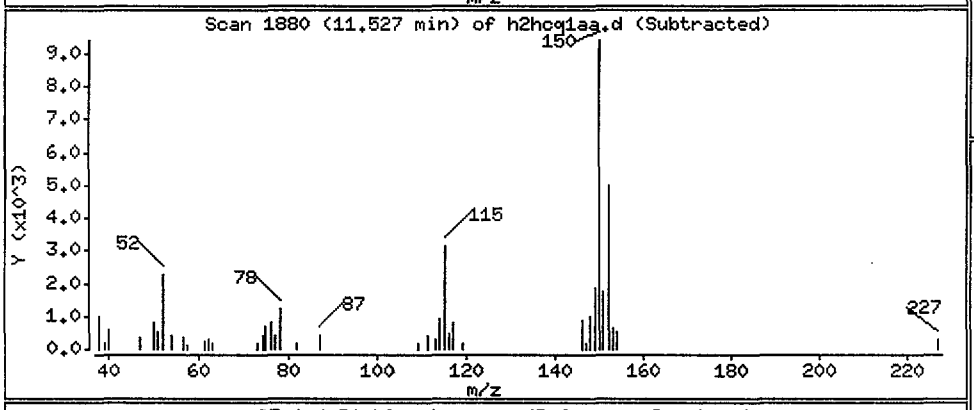
Column phase: J+W 624

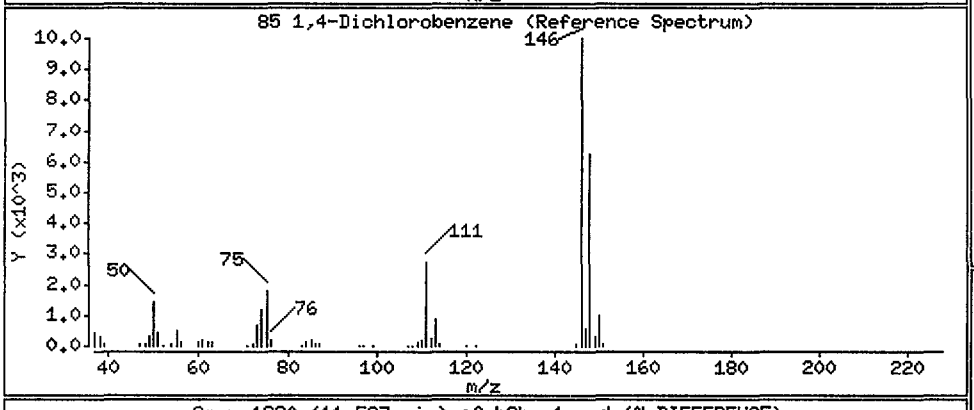
Column diameter: 0.18

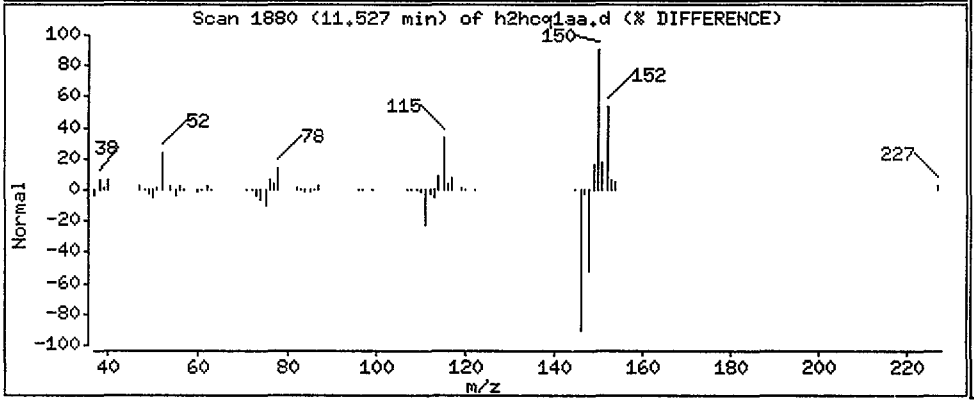
85 1,4-Dichlorobenzene

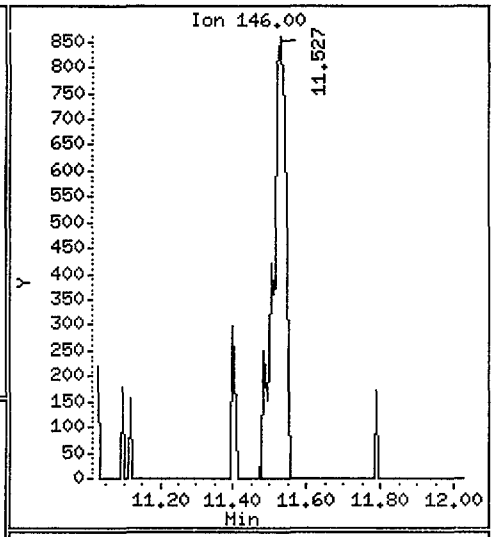
Concentration: 0.0013556 ug

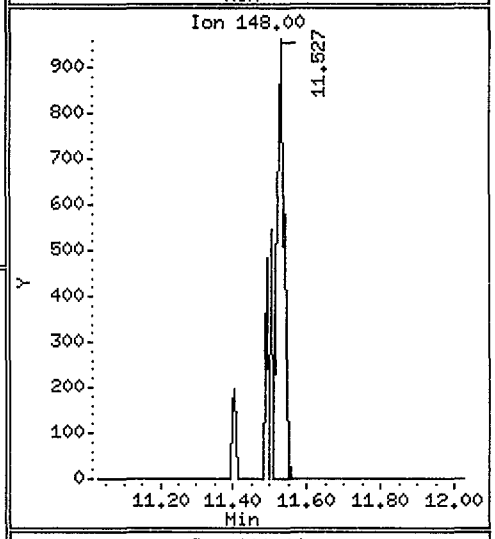


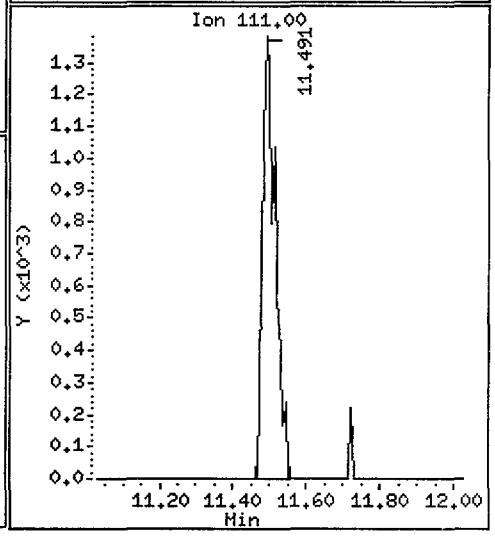












Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcq1aa.d
Report Date: 14-Apr-2006 17:02

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2hcq1aa.d
Lab Smp Id: H2HCQ1AA Client Smp ID: G-3096-R3-VOST PAIR
Inj Date : 07-APR-2006 14:46
Operator : 22980 Inst ID: mz.i
Smp Info : H2HCQ1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment   : Volatile Organics by GC/MS
Method   : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

STL Knoxville - ACS

Client Sample ID: G-3097-R3-VOST CONDENSATE

GC/MS Volatiles

Lot-Sample #...: H6D030169-031 **Work Order #...:** H2HCR1AA **Matrix.....:** WATER
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**5.9 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	ND	1.0	ug/L	0.10
Bromoform	ND	1.0	ug/L	0.14
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	ND	1.0	ug/L	0.20
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.10
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	**0.11 J**	**1.0**	**ug/L**	**0.10**
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3097-R3-VOST CONDENSATE

GC/MS Volatiles

Lot-Sample #...: H6D030169-031 **Work Order #...:** H2HCR1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	**0.56 J,B**	**2.0**	**ug/L**	**0.12**
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**1.2 J**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	**0.12 J**	**1.0**	**ug/L**	**0.10**
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	109	(79 - 120)
1,2-Dichloroethane-d4	111	(71 - 127)
Toluene-d8	101	(80 - 120)
Bromofluorobenzene	94	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3097-R3-VOST CONDENSATE

GC/MS Volatiles

Lot-Sample #: H6D030169-031 **Work Order #:** H2HCR1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1aa.d
Report Date: 05-Apr-2006 19:40

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040506.b/h2hcr1aa.d
Lab Smp Id: H2HCR1AA Client Smp ID: G-3097-R3-VOST COND
Inj Date : 05-APR-2006 19:22
Operator : 063605 Inst ID: mz.i
Smp Info : H2HCR1AA,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 05-Apr-2006 15:47 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.668	5.667	(1.000)	970066	10.0000	
* 2 Chlorobenzene-d5	119	8.929	8.933	(1.000)	175995	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.484	11.488	(1.000)	213254	10.0000	
$ 5 1,2-Dichloroethane-d4	65	5.230	5.229	(0.923)	149137	11.0953	11.095
$ 4 Dibromofluoromethane	113	4.823	4.821	(0.851)	169279	10.8904	10.890
$ 6 Toluene-d8	98	7.457	7.455	(0.835)	783641	10.1338	10.134
$ 7 4-Bromofluorobenzene	95	10.122	10.126	(0.881)	202900	9.43427	9.4343
15 Bromomethane	94	1.416	1.414	(0.250)	965	~~0.92757~~	~~0.92756~~
22 Acetone	43	2.128	2.126	(0.375)	13594	5.89452	5.8945
23 *Iodomethane	142	2.207	2.181	(0.389)	1023	0.56272	0.56272
27 Methylene Chloride	84	2.505	2.503	(0.442)	20176	1.24366	1.2437
45 1,2-Dichloroethane	62	5.334	5.326	(0.941)	2315	0.11432	0.11432
53 4-Methyl-2-pentanone	43	7.463	7.376	(1.317)	6955	~~0.82110~~	~~0.82110~~
54 Toluene (ccc)	91	7.524	7.522	(0.843)	11788	0.11770	0.11770

4/7/06

Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1aa.d
Report Date: 05-Apr-2006 19:40

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
55 trans-1,3-Dichloropropene	75	7.457	7.784	(0.835)	324	~~0.64558~~	~~0.64558~~
69 Bromoform (spcc)	173	10.122	9.779	(1.134)	759	~~1.07151~~	~~1.0715~~

MTS 4/7/06

Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1aa.d
Report Date: 05-Apr-2006 19:40

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2hcr1aa.d
Lab Smp Id: H2HCR1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Calibration Date: 05-APR-2006
Calibration Time: 14:42
Client Smp ID: G-3097-R3-VOST COND
Level: LOW
Sample Type: WATER
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,focus.sub

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1078707	539354	2157414	970066	-10.07
2 Chlorobenzene-d5	188899	94450	377798	175995	-6.83
3 1,4 Dichlorobenze	220143	110072	440286	213254	-3.13

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.67	5.17	6.17	5.67	0.03
2 Chlorobenzene-d5	8.93	8.43	9.43	8.93	-0.05
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.48	-0.04

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

Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1aa.d
Report Date: 05-Apr-2006 19:40

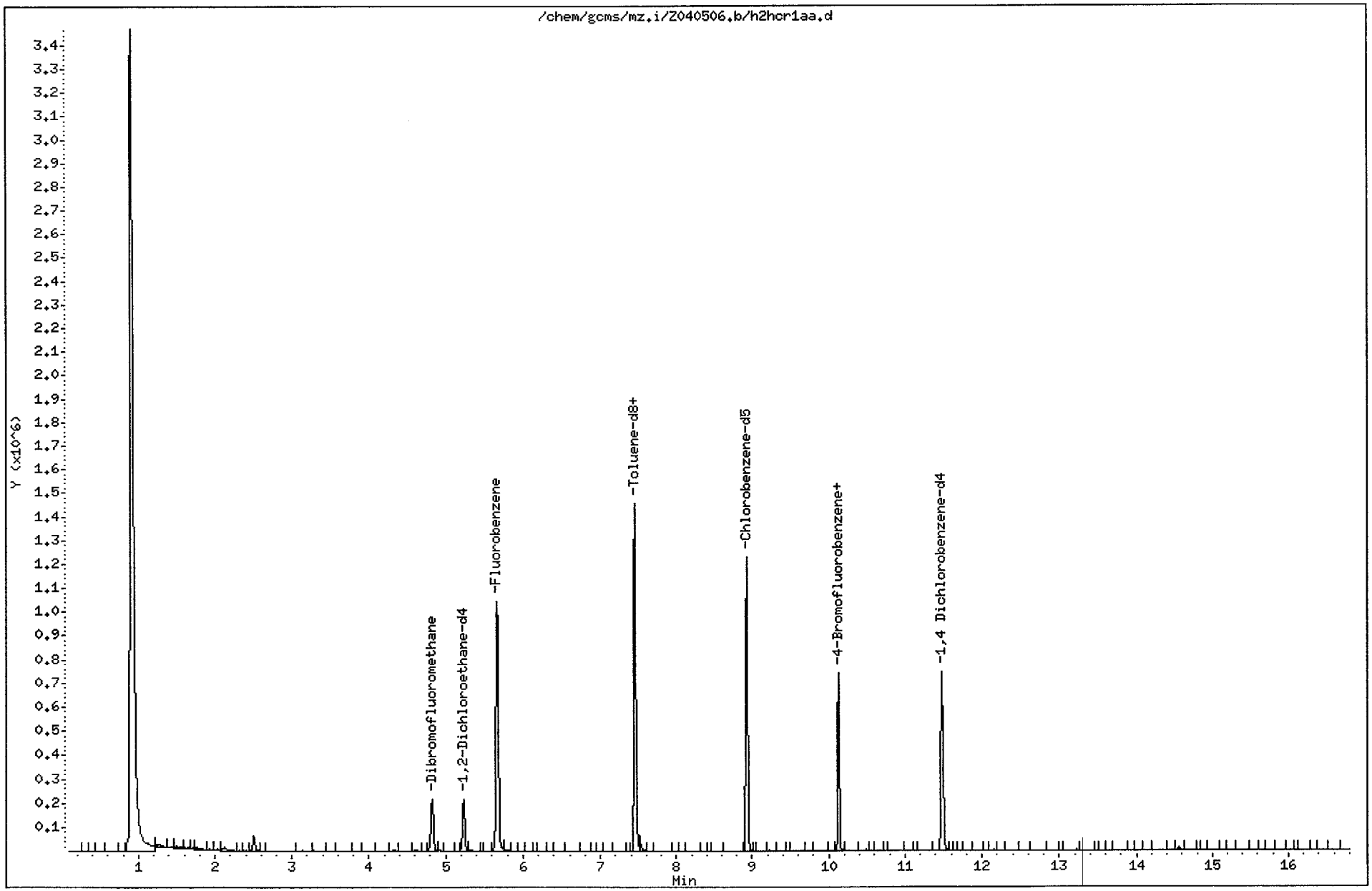
STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030169
Sample Matrix: LIQUID
Fraction: VOA
Lab Smp Id: H2HCR1AA
Client Smp ID: G-3097-R3-VOST COND
Level: LOW
Operator: 063605
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allcmpds.spk
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,focus.sub

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 5 1,2-Dichloroethane	10.000	11.095	110.95	71-127
$ 4 Dibromofluorometha	10.000	10.890	108.90	79-120
$ 6 Toluene-d8	10.000	10.134	101.34	80-120
$ 7 4-Bromofluorobenze	10.000	9.4343	94.34	69-126

Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1aa.d
Date : 05-APR-2006 19:22
Client ID: G-3097-R3-VOST COND
Instrument: mz.i
Sample Info: H2HCR1AA,1,0,,
Purge Volume: 25.0
Operator: 063605
Column phase: J+W 624
Column diameter: 0.18



Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1aa.d

Date : 05-APR-2006 19:22

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AA,1,0,,

Purge Volume: 25.0

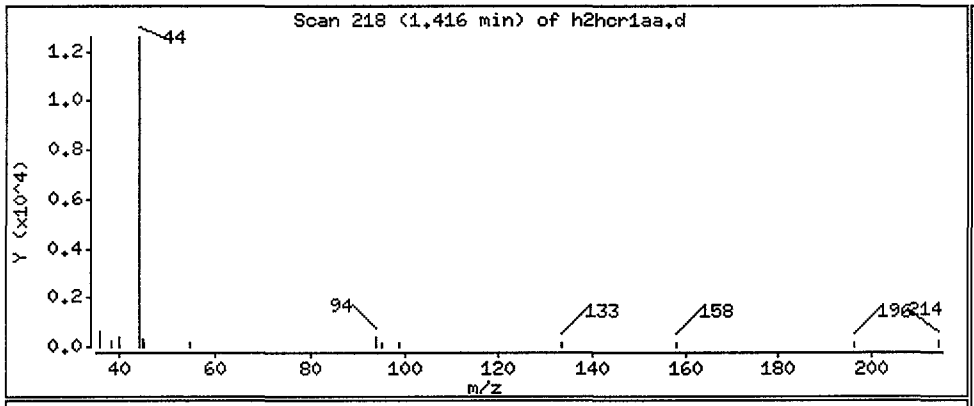
Operator: 063605

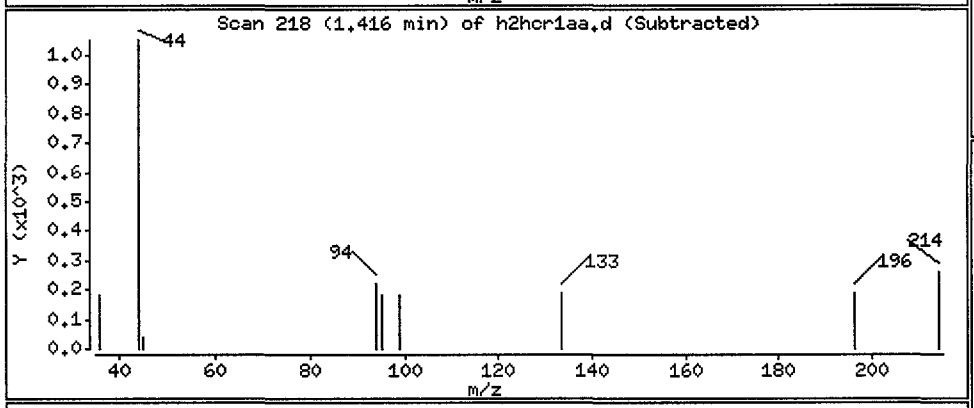
Column phase: J+W 624

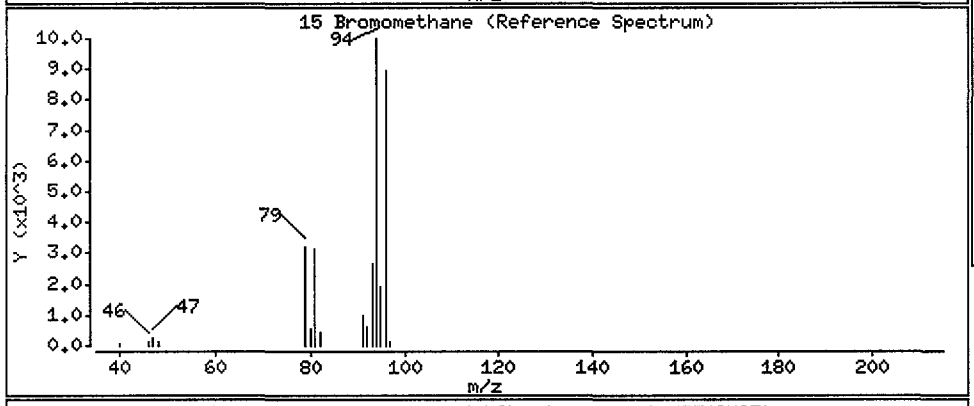
Column diameter: 0.18

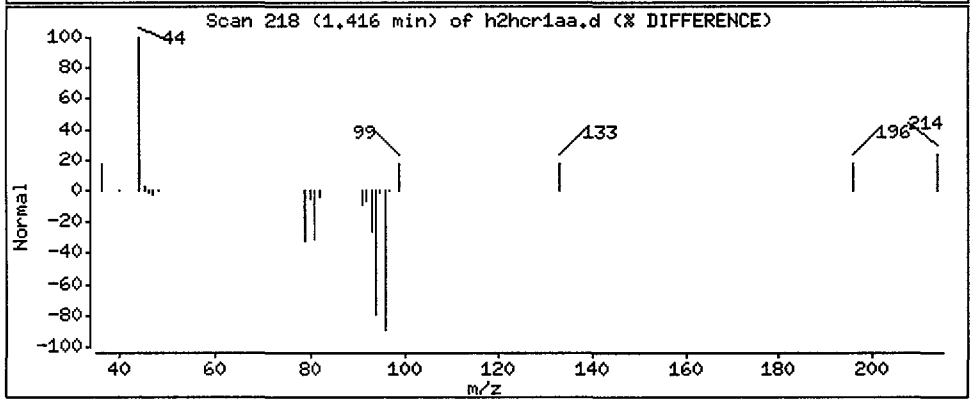
15 Bromomethane

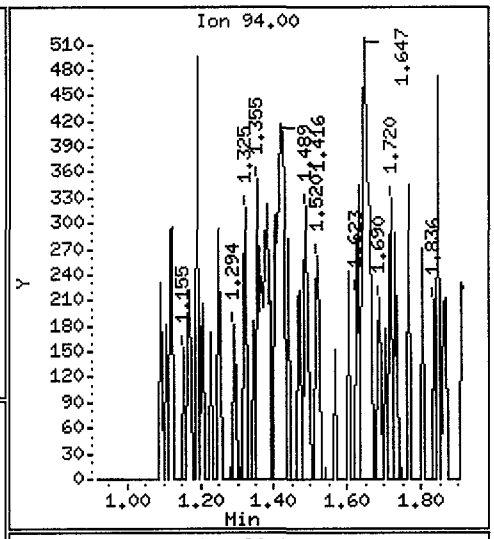
Concentration: 0.92756 ug/L

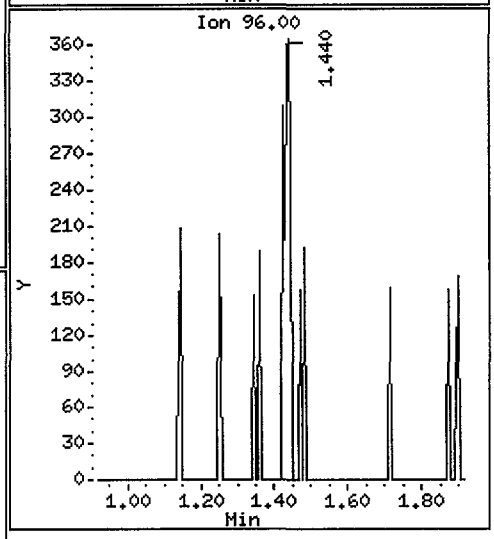












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1aa.d

Date : 05-APR-2006 19:22

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AA,1,0,,

Purge Volume: 25.0

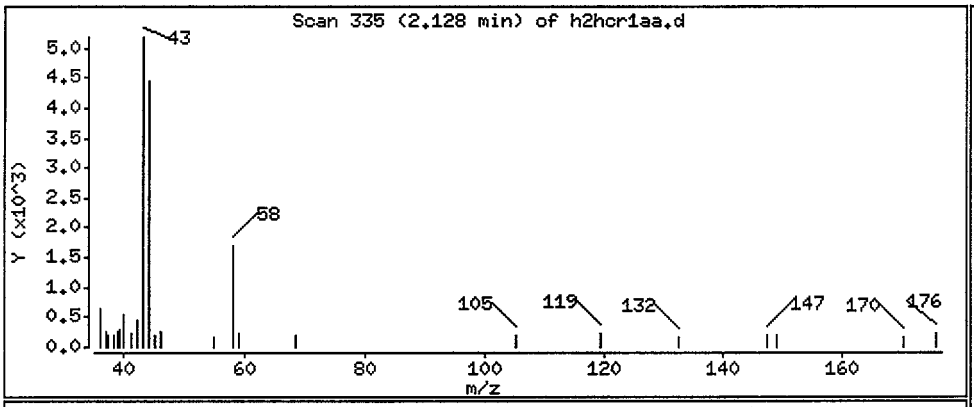
Operator: 063605

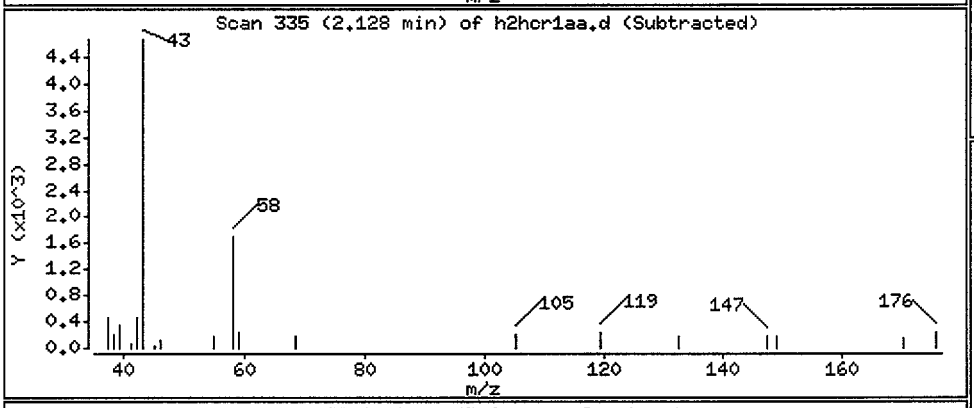
Column phase: J+W 624

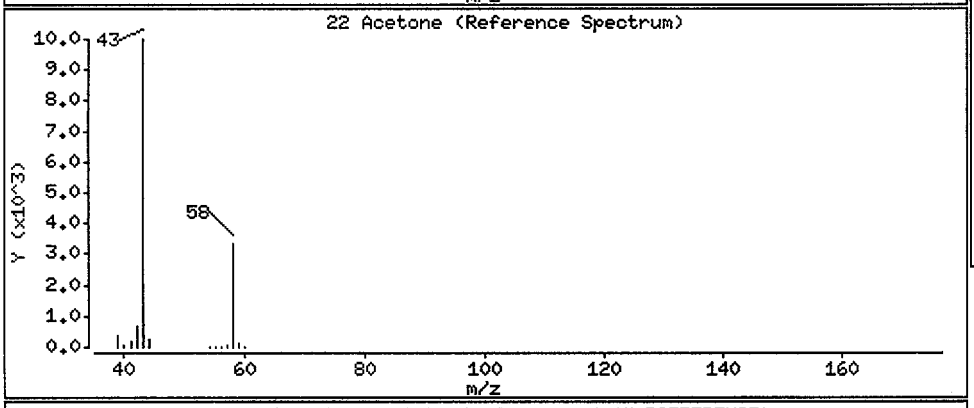
Column diameter: 0.18

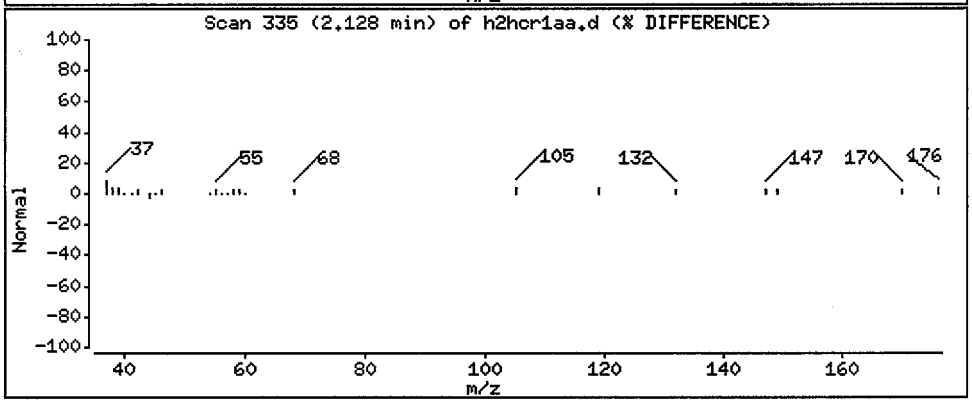
22 Acetone

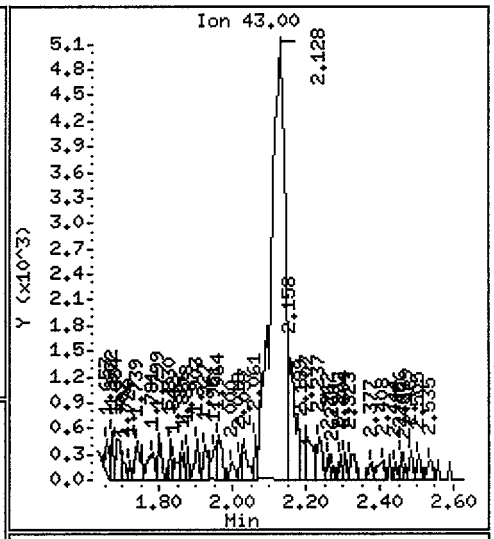
Concentration: 5.8945 ug/L

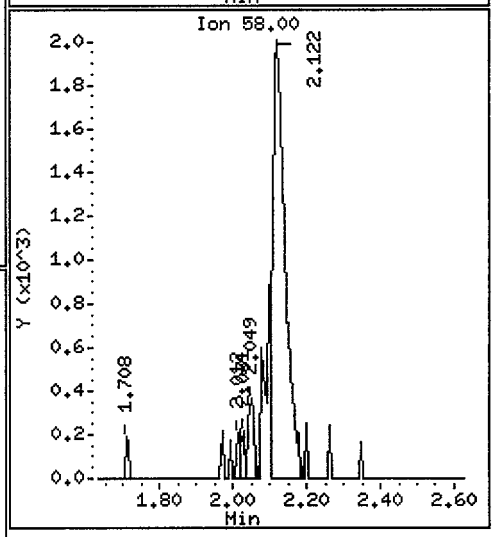












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1aa.d

Date : 05-APR-2006 19:22

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AA,1,0,,

Purge Volume: 25.0

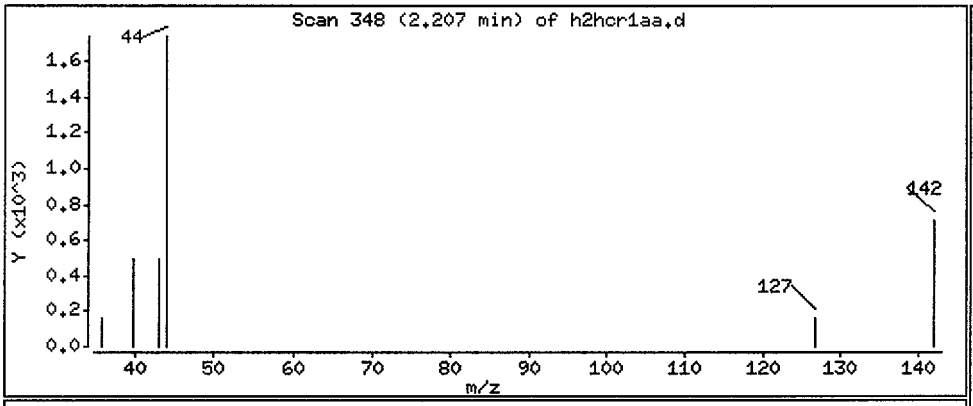
Operator: 063605

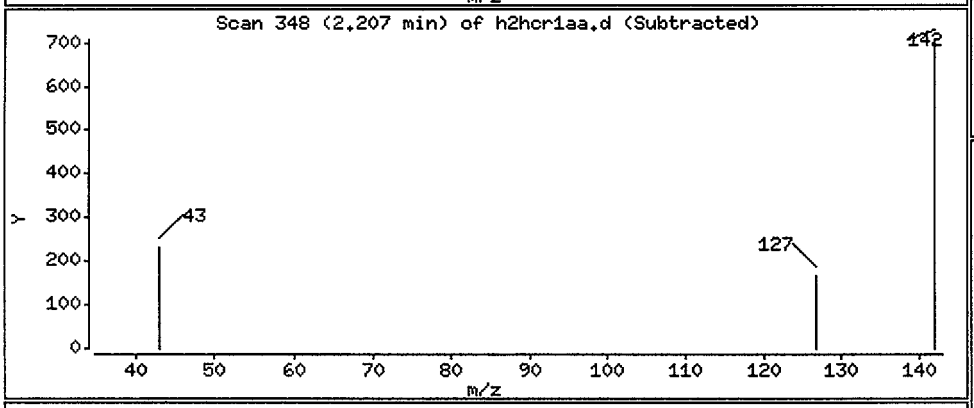
Column phase: J+W 624

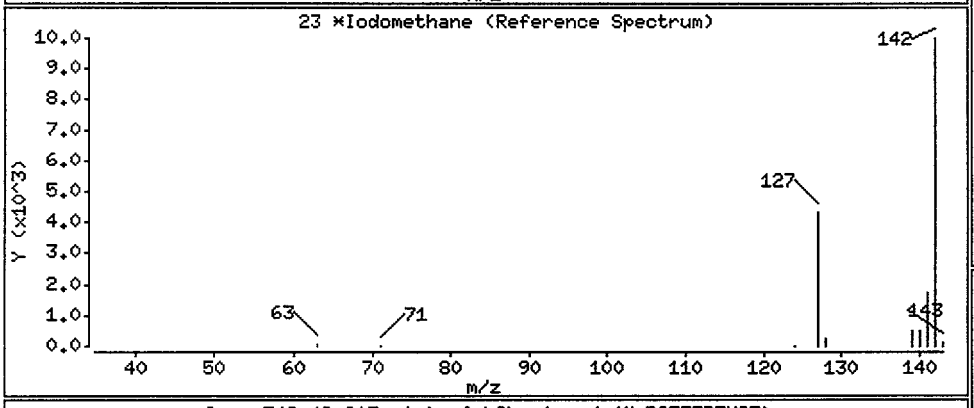
Column diameter: 0.18

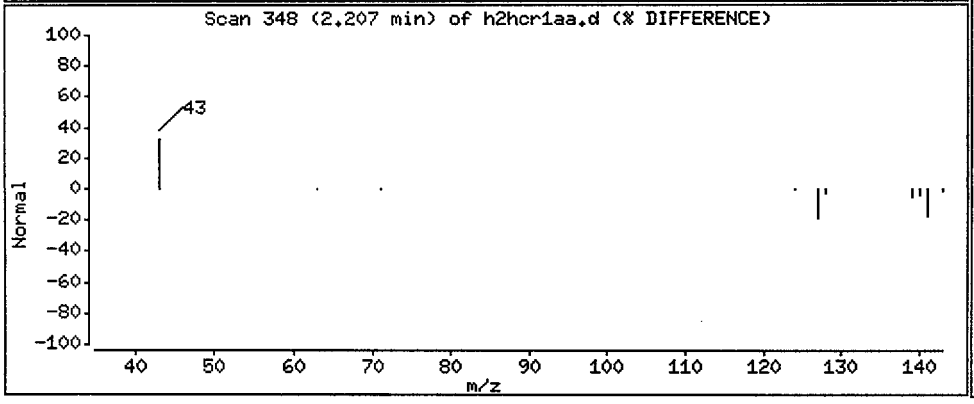
23 *Iodomethane

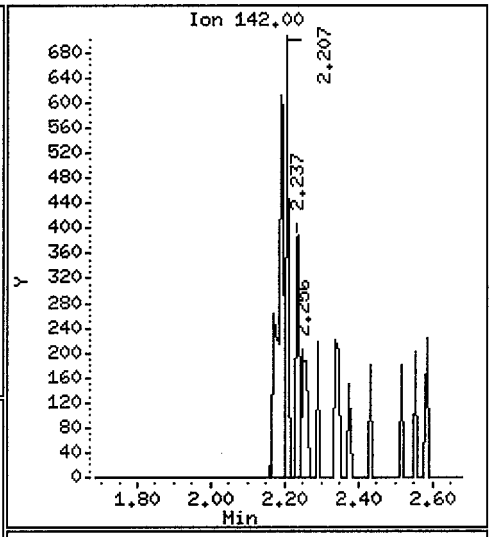
Concentration: 0.56272 ug/L

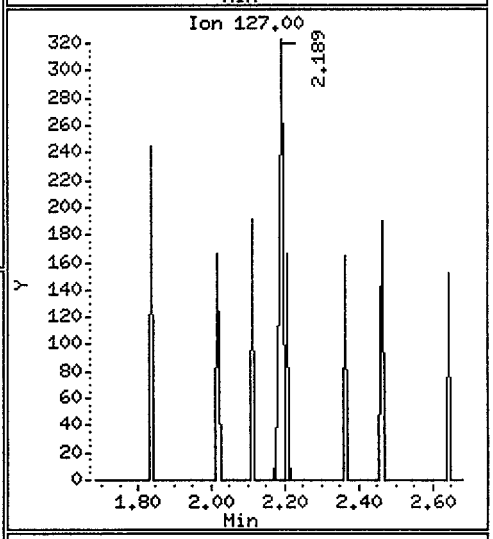


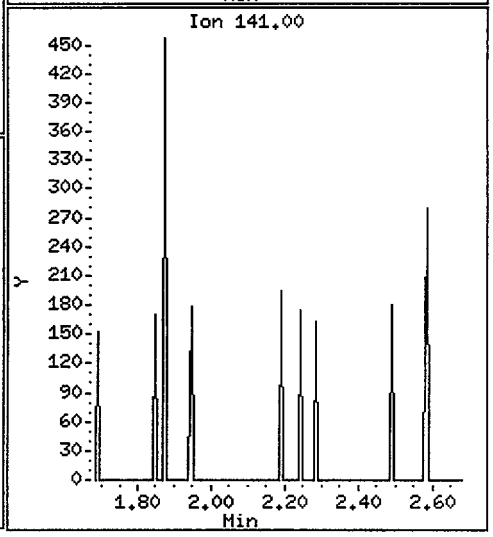












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1aa.d

Date : 05-APR-2006 19:22

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AA,1,0,,

Purge Volume: 25.0

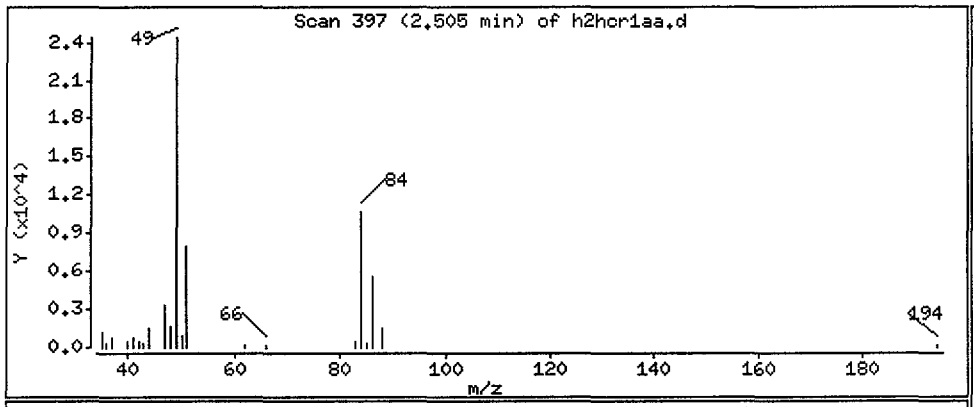
Operator: 063605

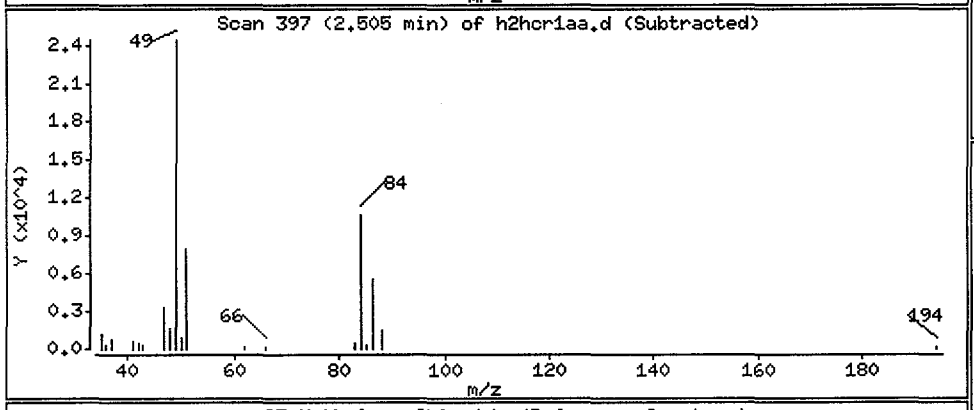
Column phase: J+W 624

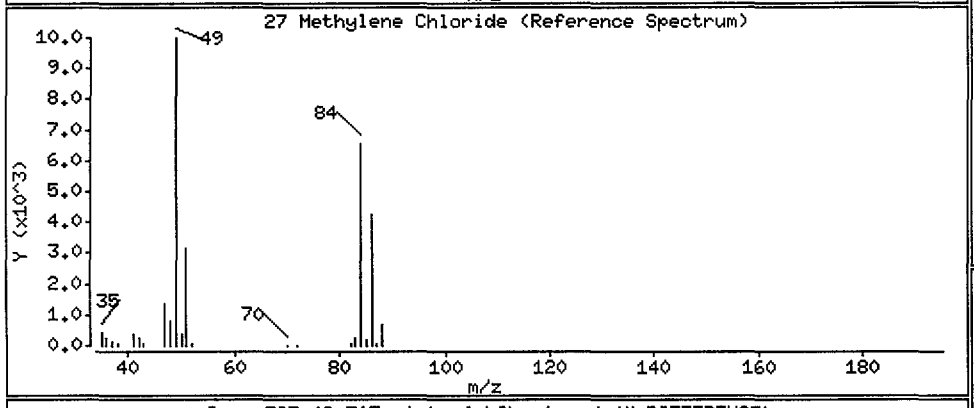
Column diameter: 0.18

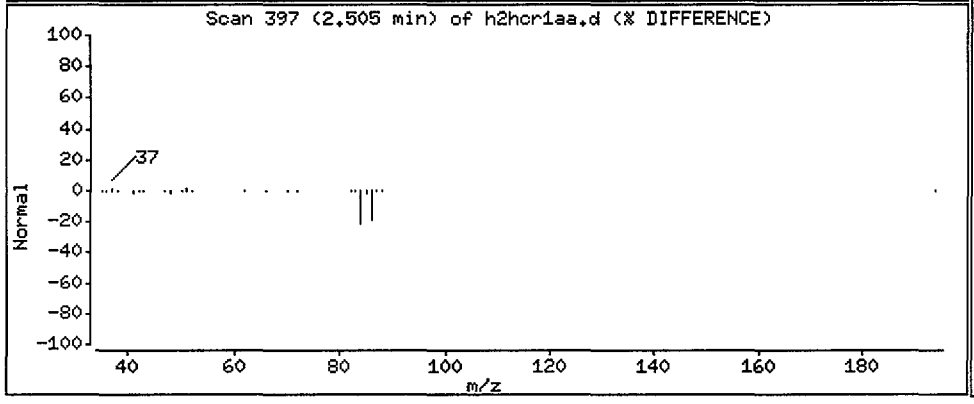
27 Methylene Chloride

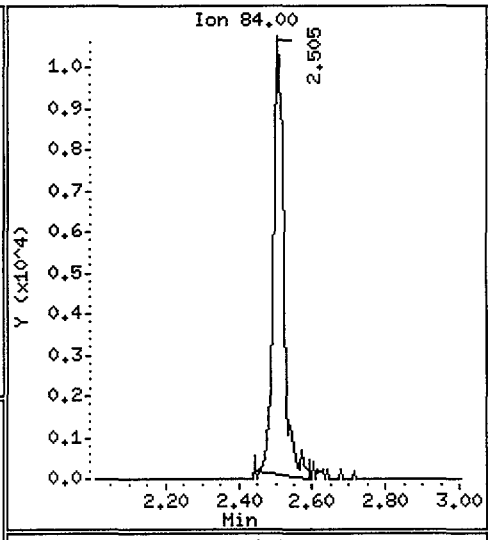
Concentration: 1.2437 ug/L

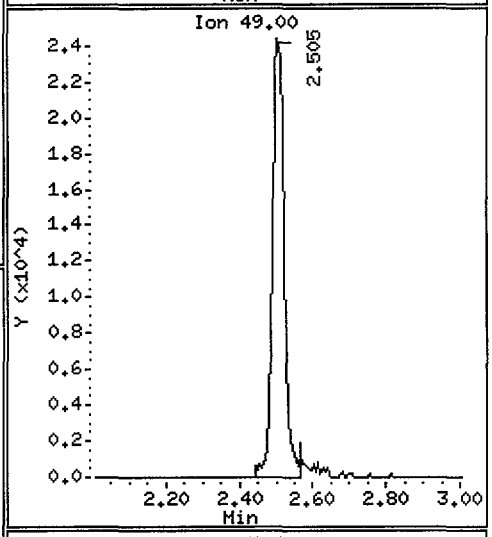


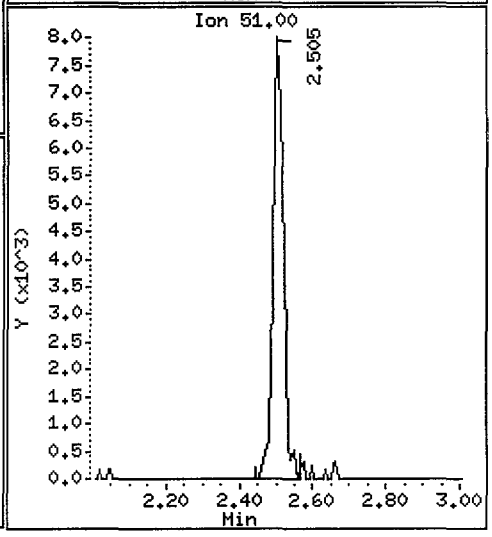












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1aa.d

Date : 05-APR-2006 19:22

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AA,1,0,,

Purge Volume: 25.0

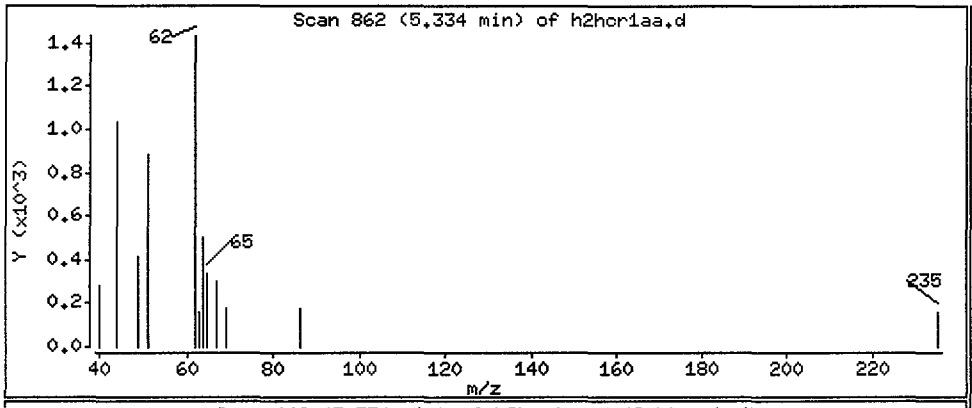
Operator: 063605

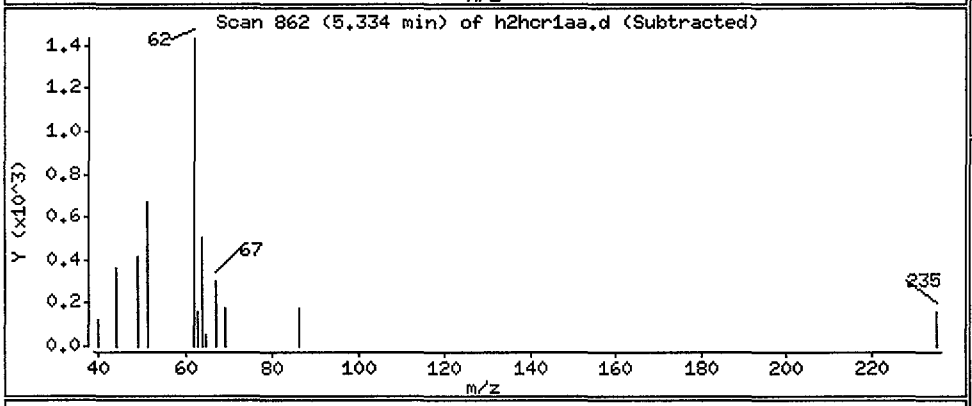
Column phase: J+W 624

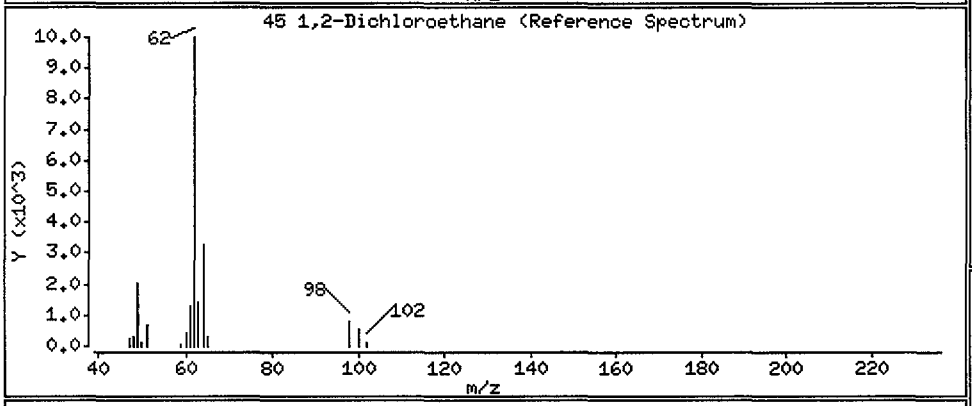
Column diameter: 0.18

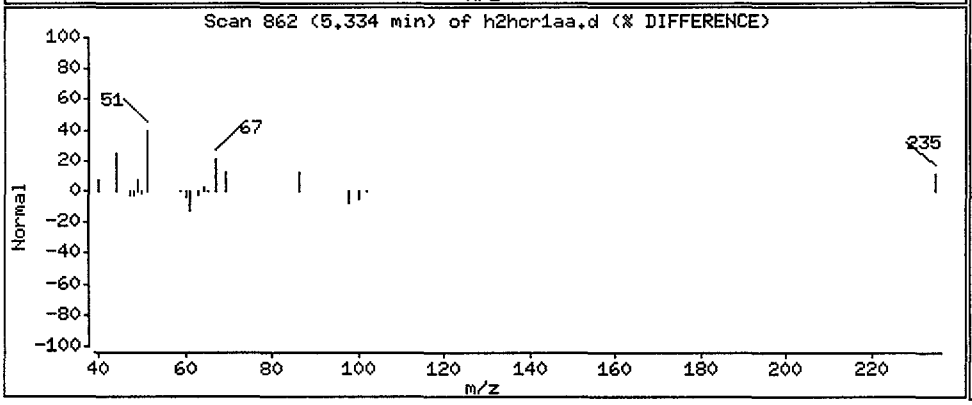
45 1,2-Dichloroethane

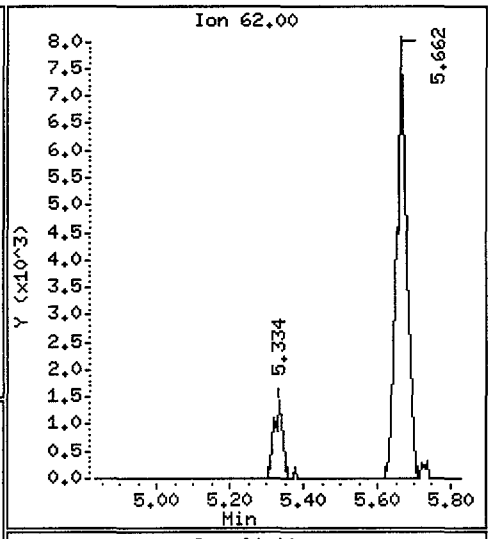
Concentration: 0.11432 ug/L

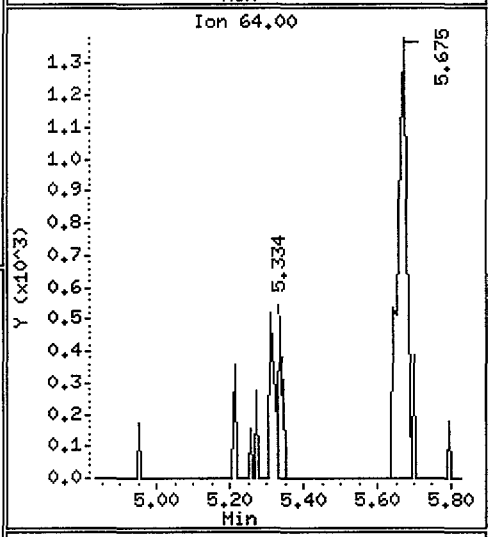


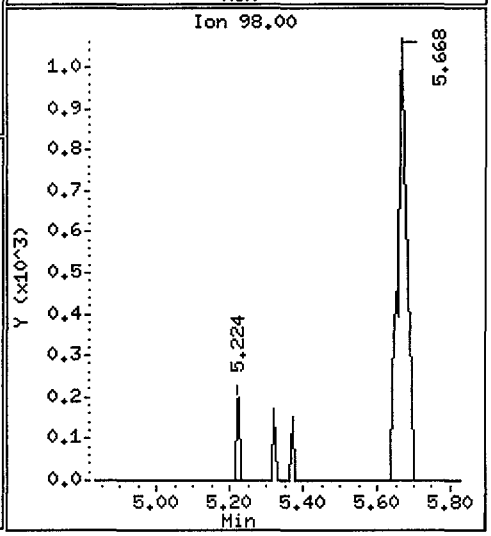












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1aa.d

Date : 05-APR-2006 19:22

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AA,1,0,,

Purge Volume: 25.0

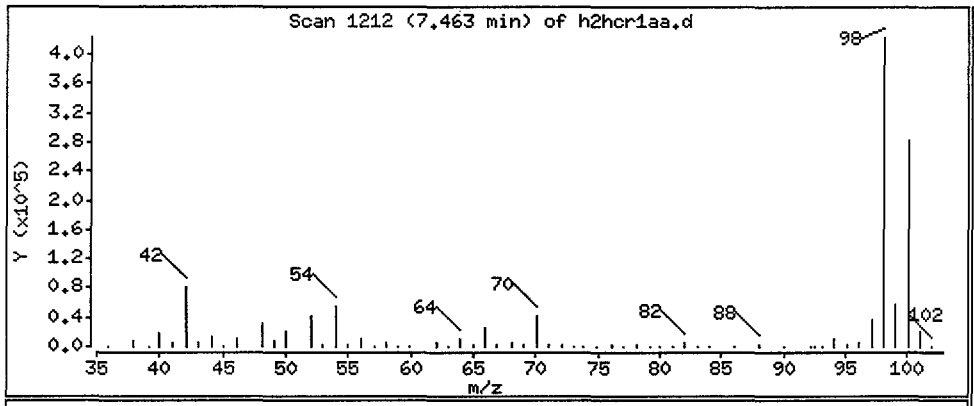
Operator: 063605

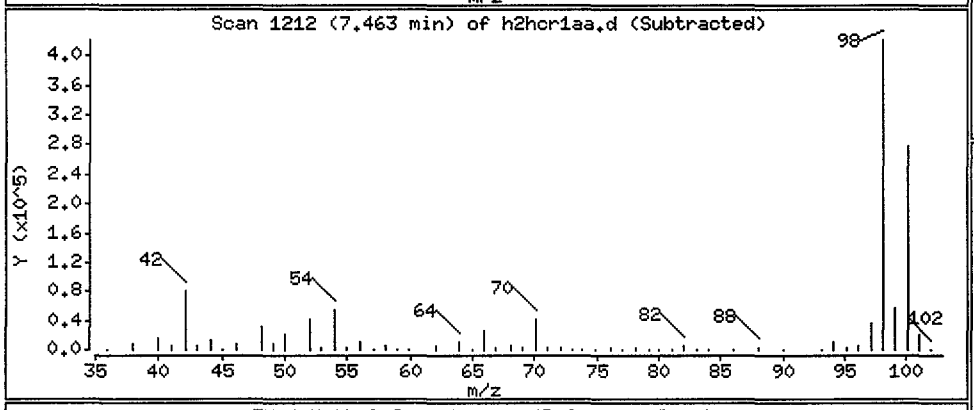
Column phase: J+W 624

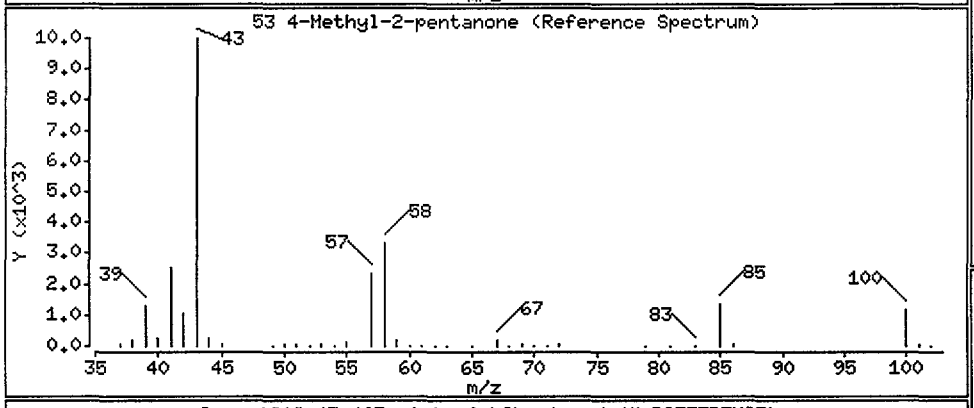
Column diameter: 0.18

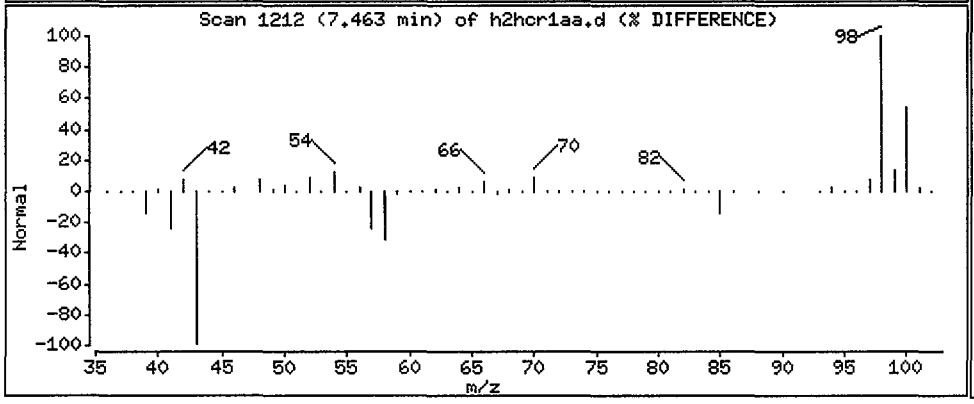
53 4-Methyl-2-pentanone

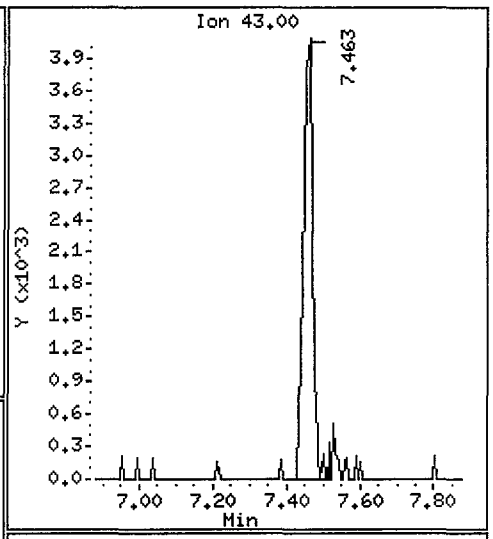
Concentration: 0.82110 ug/L

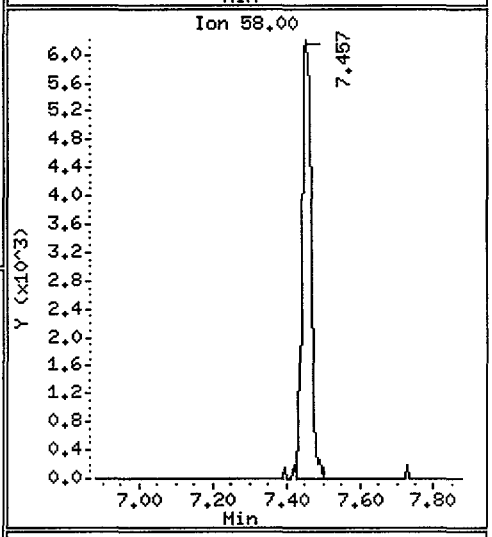


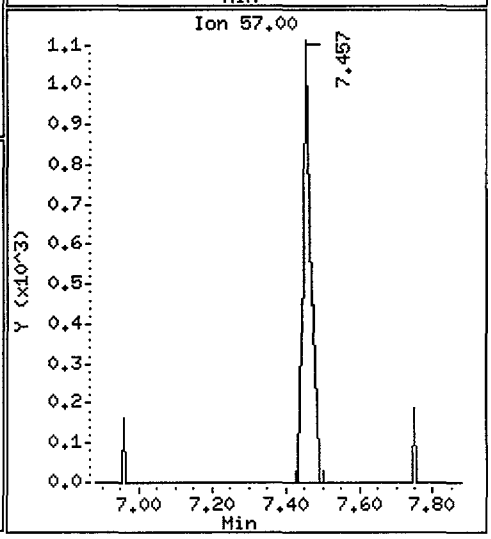












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1aa.d

Date : 05-APR-2006 19:22

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AA,1,0,,

Purge Volume: 25.0

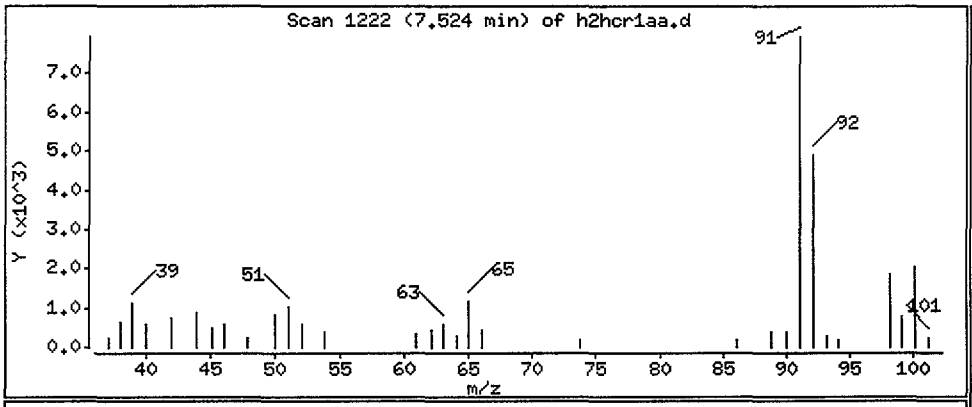
Operator: 063605

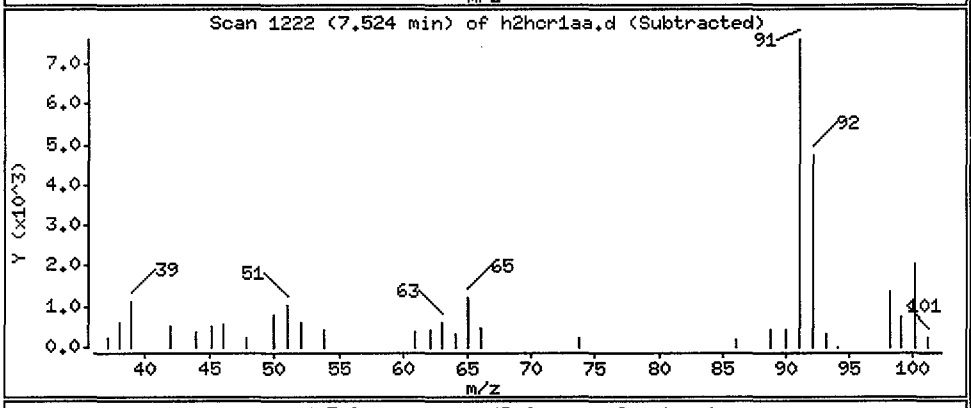
Column phase: J+W 624

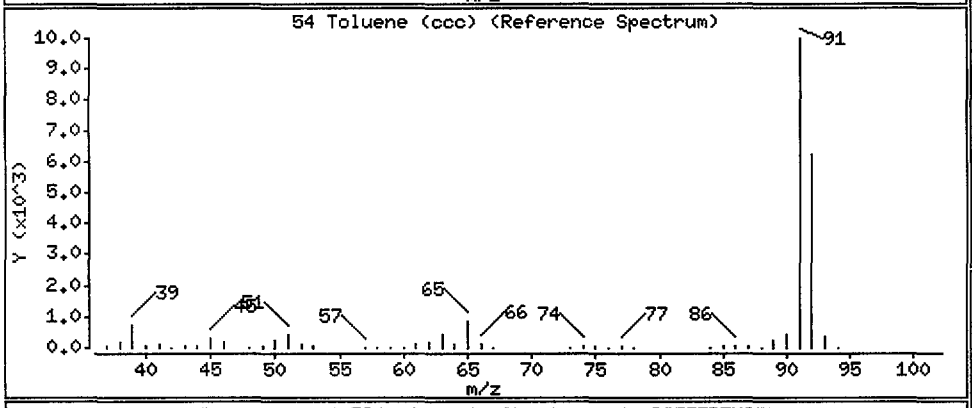
Column diameter: 0.18

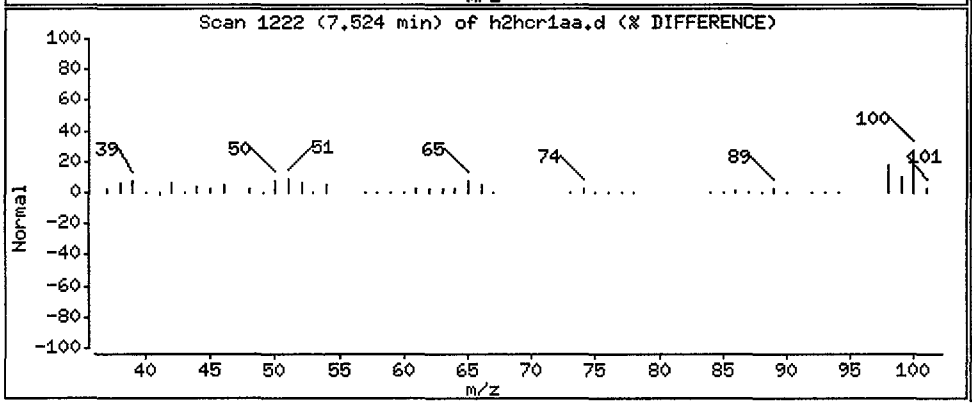
54 Toluene (ccc)

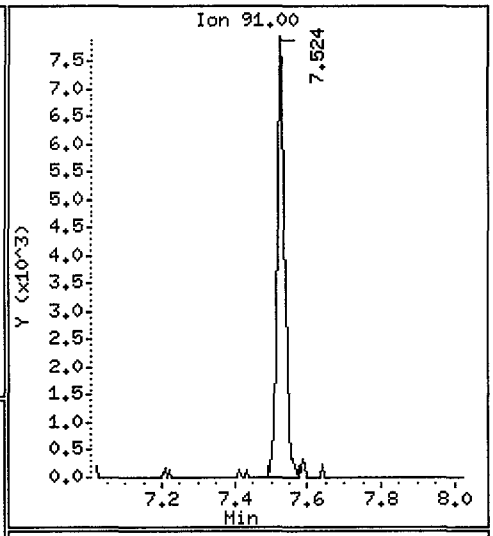
Concentration: 0.11770 ug/L

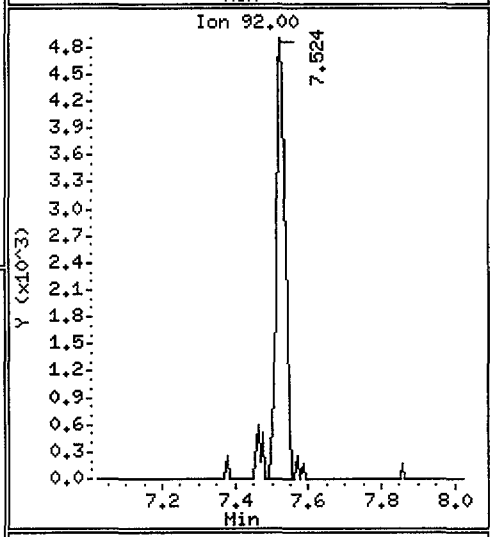


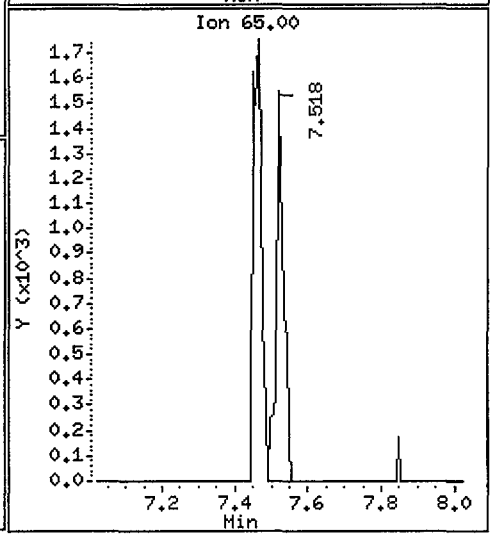












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1aa.d

Date : 05-APR-2006 19:22

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AA,1,0,,

Purge Volume: 25.0

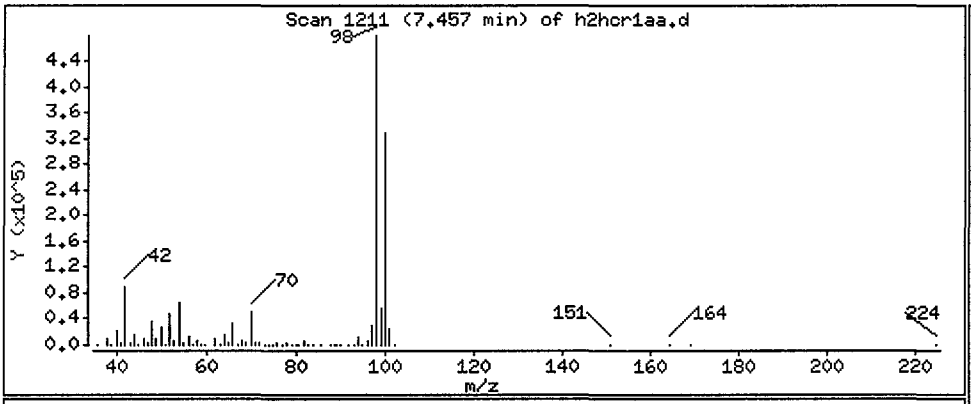
Operator: 063605

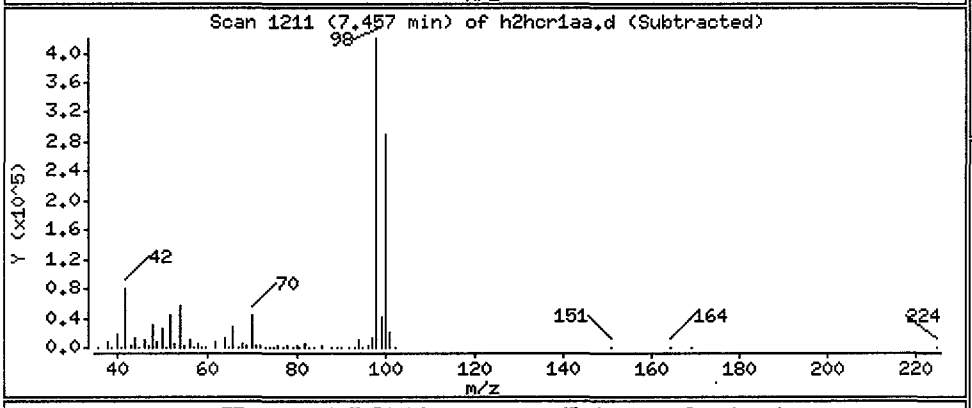
Column phase: J+W 624

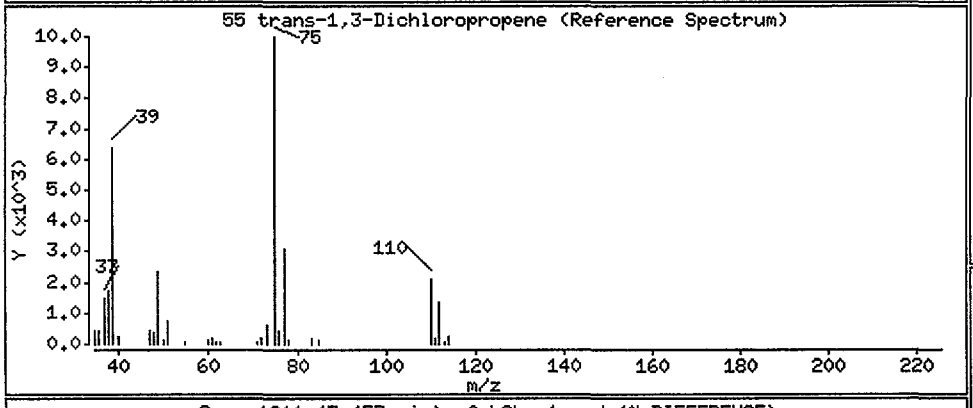
Column diameter: 0.18

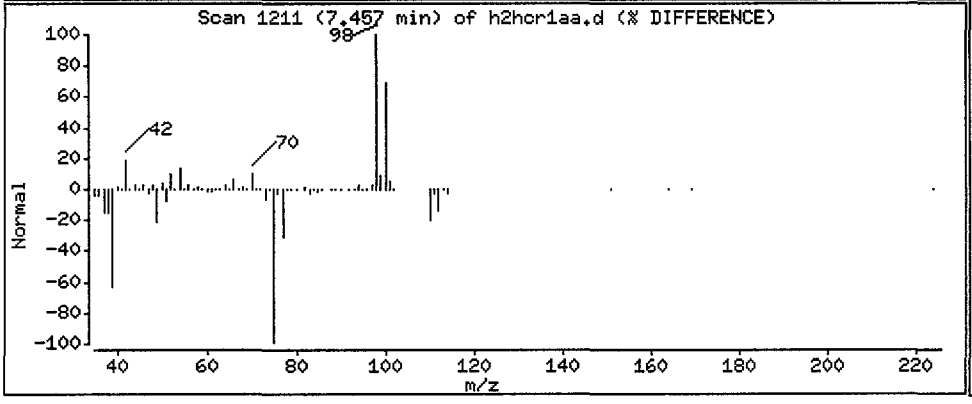
55 trans-1,3-Dichloropropene

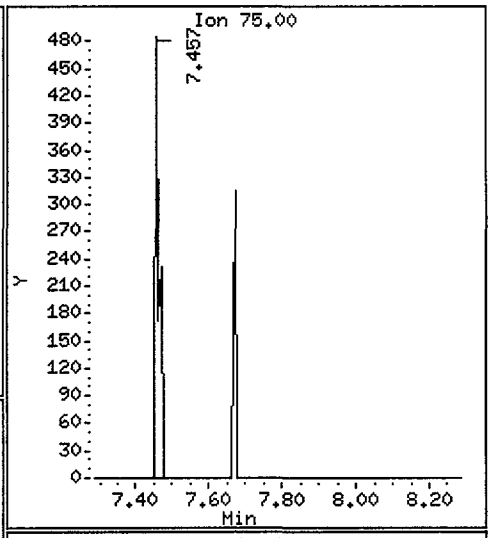
Concentration: 0.64558 ug/L

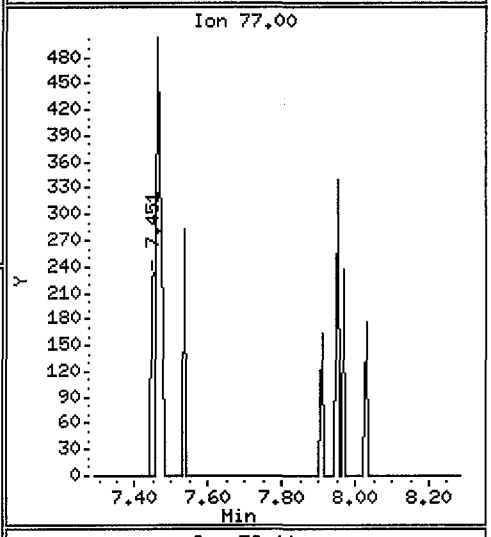


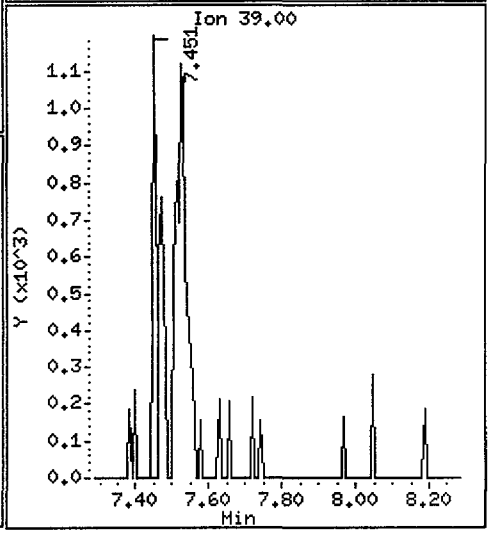












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1aa.d

Date : 05-APR-2006 19:22

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AA,1,0,,

Purge Volume: 25.0

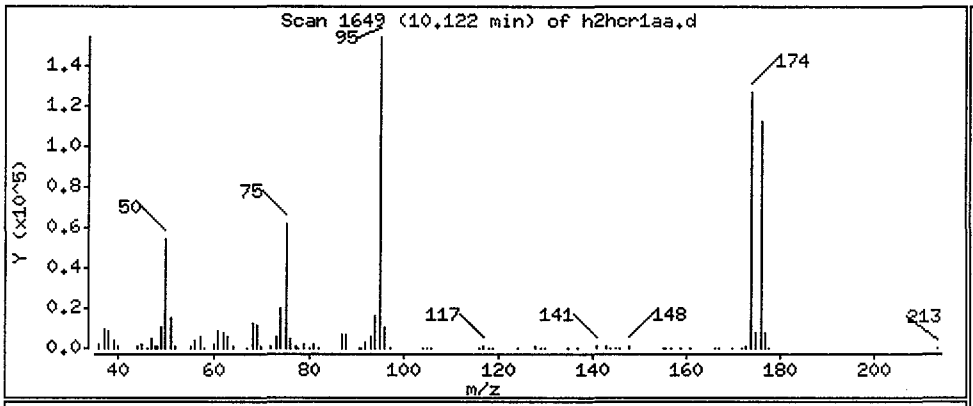
Operator: 063605

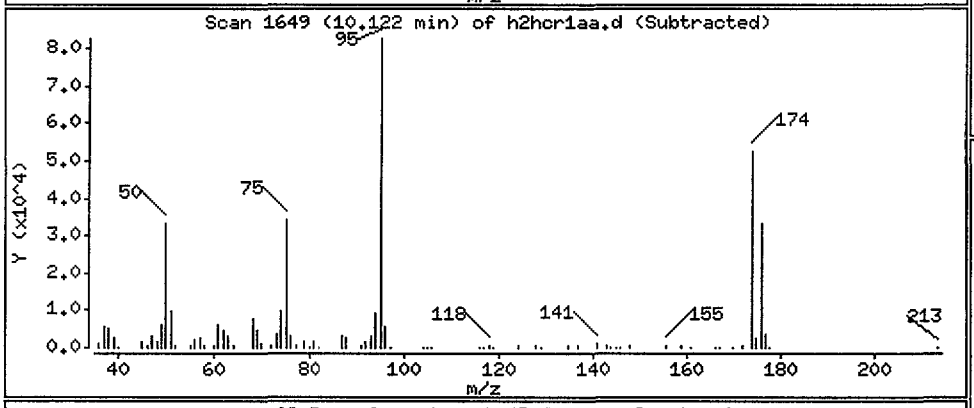
Column phase: J+W 624

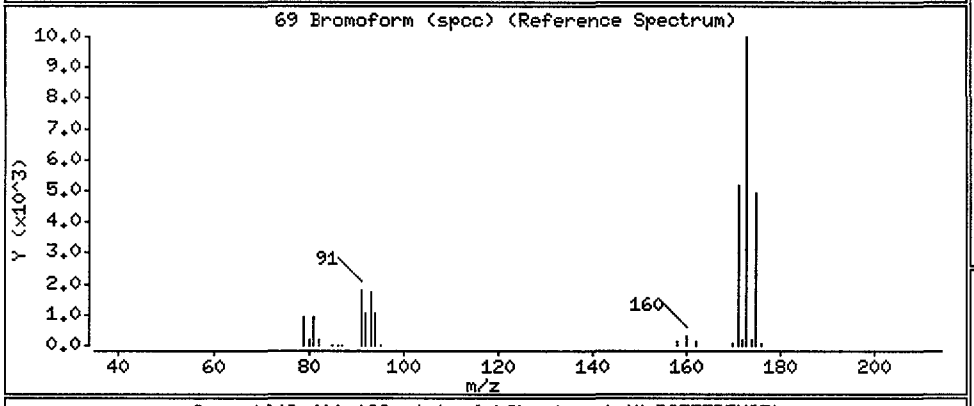
Column diameter: 0.18

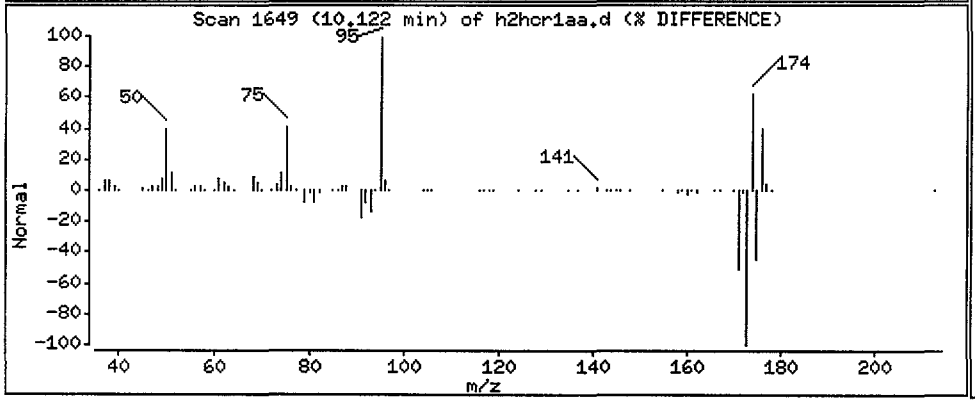
69 Bromoform (spcc)

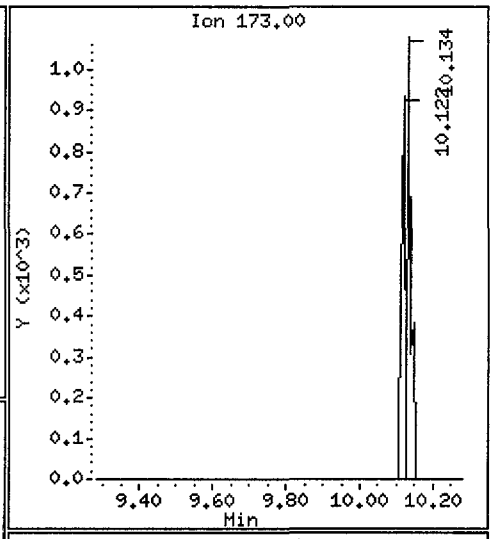
Concentration: 1.0715 ug/L

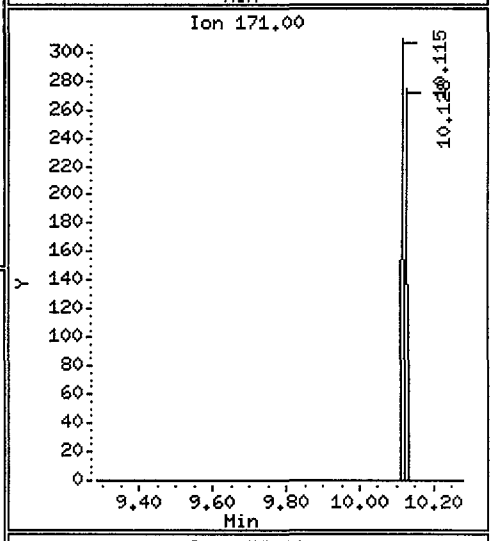


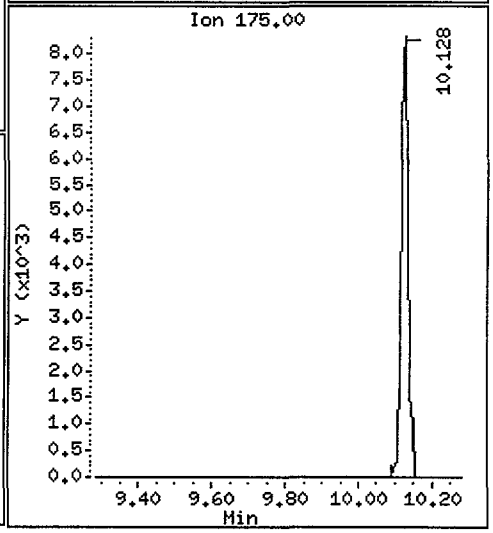












Data File: /var/chem/gcms/mz.i/Z040506.b/h2hcr1aa.d
Report Date: 07-Apr-2006 14:35

STL, Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040506.b/h2hcr1aa.d
Lab Smp Id: H2HCR1AA Client Smp ID: G-3097-R3-VOST COND
Inj Date : 05-APR-2006 19:22
Operator : 063605 Inst ID: mz.i
Smp Info : H2HCR1AA,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 06-Apr-2006 17:11 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.668	1037942	10.000

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide				CAS #: 124-38-9			
0.911	3466123	33.3941877	33.394	5	NIST05.l	80	1

Air
MT 4/7/06

Data File: /var/chem/gcms/mz.i/Z040506.b/h2hcr1aa.d

Date : 05-APR-2006 19:22

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AA,1,0,,

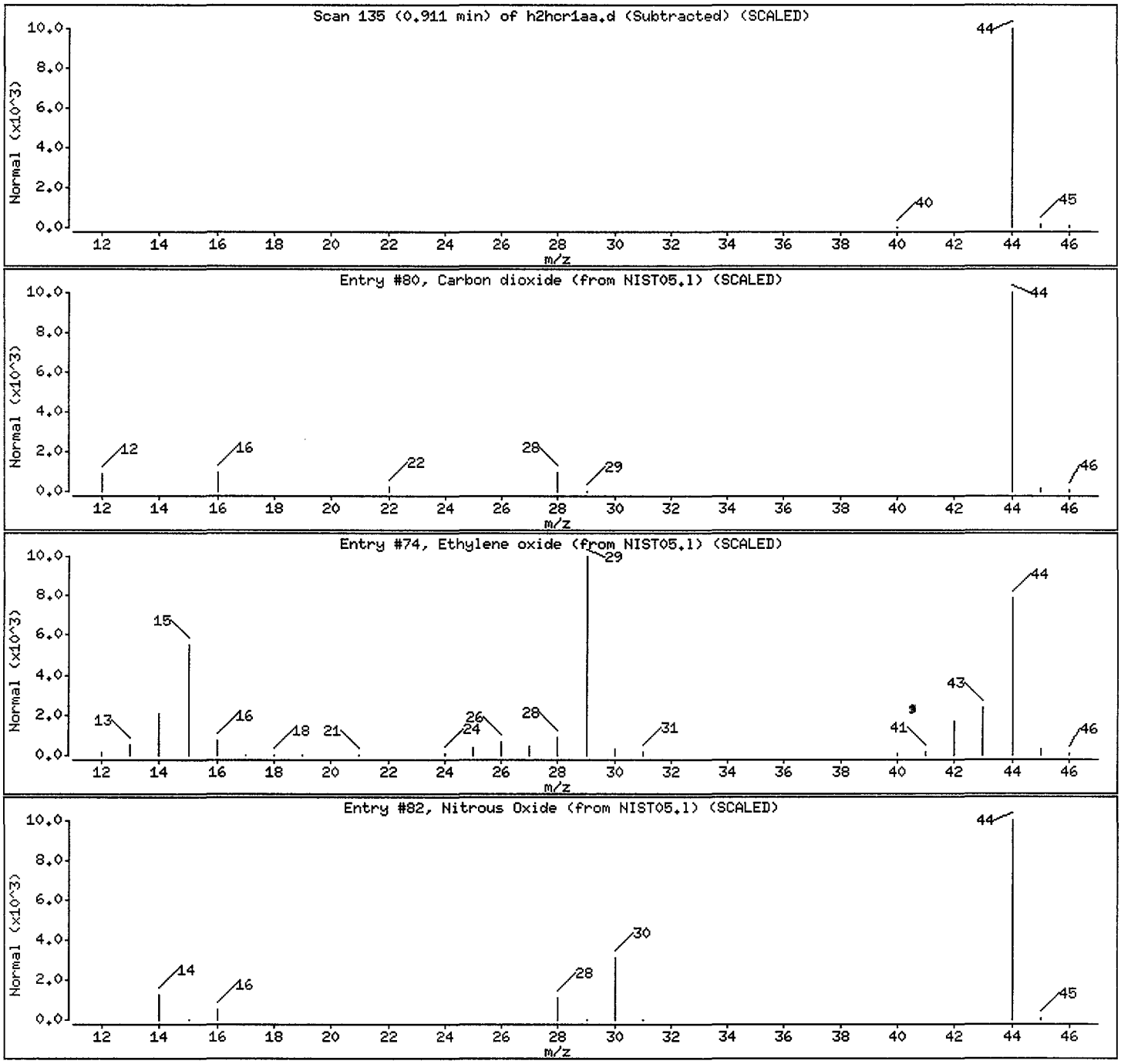
Purge Volume: 25.0

Operator: 063605

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.1	80	5	CO2	44
Ethylene oxide	75-21-8	NIST05.1	74	3	C2H4O	44
Nitrous Oxide	10024-97-2	NIST05.1	82	3	N2O	44



STL Knoxville - ACS

Client Sample ID: G-3097-R3-VOST CONDENSATE DUP

GC/MS Volatiles

Lot-Sample #...: H6D030169-031 **Work Order #...:** H2HCR1AC **Matrix.....:** WATER
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**4.3 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	**2.3**	**1.0**	**ug/L**	**0.10**
Bromoform	**0.84 J**	**1.0**	**ug/L**	**0.14**
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	**0.22 J**	**1.0**	**ug/L**	**0.10**
Chlorodibromomethane	**1.1**	**1.0**	**ug/L**	**0.20**
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	**6.3**	**1.0**	**ug/L**	**0.10**
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3097-R3-VOST CONDENSATE DUP

GC/MS Volatiles

Lot-Sample #...: H6D030169-031 **Work Order #...:** H2HCR1AC **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**1.1 J**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	ND	1.0	ug/L	0.10
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	**0.76 J**	**1.0**	**ug/L**	**0.10**
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	109	(79 - 120)
1,2-Dichloroethane-d4	110	(71 - 127)
Toluene-d8	100	(80 - 120)
Bromofluorobenzene	94	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

Data File: /var/chem/gcms/mz.i/Z040506.b/h2hcr1ac.d
Report Date: 07-Apr-2006 14:37

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040506.b/h2hcr1ac.d
Lab Smp Id: H2HCR1AC Client Smp ID: G-3097-R3-VOST COND
Inj Date : 05-APR-2006 20:33
Operator : 063605 Inst ID: mz.i
Smp Info : H2HCR1AC,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 06-Apr-2006 17:11 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1 QC Sample: SAMPLE DUPLICATE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

04/7/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.666	5.667	(1.000)	919647	10.0000	
* 2 Chlorobenzene-d5	119	8.933	8.933	(1.000)	170310	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.488	11.488	(1.000)	204506	10.0000	
$ 5 1,2-Dichloroethane-d4	65	5.234	5.229	(0.924)	139785	10.9696	10.970
$ 4 Dibromofluoromethane	113	4.827	4.821	(0.852)	161193	10.9387	10.939
$ 6 Toluene-d8	98	7.455	7.455	(0.834)	746070	9.97003	9.9700
$ 7 4-Bromofluorobenzene	95	10.125	10.126	(0.881)	193348	9.37468	9.3747
22 Acetone	43	2.132	2.126	(0.376)	5839	4.33763	4.3376(M)
27 Methylene Chloride	84	2.509	2.503	(0.443)	16925	1.10041	1.1004
40 Chloroform (ccc)	83	4.614	4.608	(0.814)	210271	6.32807	6.3281
46 Trichloroethene	130	6.110	6.105	(1.078)	19506	0.76460	0.76460
50 Bromodichloromethane	83	6.688	6.683	(1.180)	26947	2.30027	2.3003
61 Chlorodibromomethane	129	8.349	8.349	(0.935)	2524	1.05253	1.0525
63 Chlorobenzene (spcc)	112	8.957	8.958	(1.003)	12036	0.22249	0.22249

Data File: /var/chem/gcms/mz.i/Z040506.b/h2hcr1ac.d
Report Date: 07-Apr-2006 14:37

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
69 Bromoform (spcc)	173	9.772	9.779	(1.094)	115	0.84357	0.84357
85 1,4-Dichlorobenzene	146	11.512	11.519	(1.002)	3358	0.10084	0.10084

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1ac.d
Report Date: 05-Apr-2006 20:51

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040506.b/h2hcr1ac.d
Lab Smp Id: H2HCR1AC Client Smp ID: G-3097-R3-VOST COND
Inj Date : 05-APR-2006 20:33
Operator : 063605 Inst ID: mz.i
Smp Info : H2HCR1AC,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 05-Apr-2006 15:47 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1 QC Sample: SAMPLE DUPLICATE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.666	5.667	(1.000)	919647	10.0000	
* 2 Chlorobenzene-d5	119	8.933	8.933	(1.000)	170310	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.488	11.488	(1.000)	204506	10.0000	
$ 5 1,2-Dichloroethane-d4	65	5.234	5.229	(0.924)	139785	10.9696	10.970
$ 4 Dibromofluoromethane	113	4.827	4.821	(0.852)	161193	10.9387	10.939
$ 6 Toluene-d8	98	7.455	7.455	(0.834)	746070	9.97000	9.9700
$ 7 4-Bromofluorobenzene	95	10.125	10.126	(0.881)	193348	9.37464	9.3746
15 Bromomethane	94	1.420	1.414	(0.251)	293	~~0.86422~~	~~0.86422~~
22 Acetone	43	2.132	2.126	(0.376)	2579	3.71264	3.7126
23 *Iodomethane	142	2.180	2.181	(0.385)	628	~~0.54845~~	~~0.54845~~
27 Methylene Chloride	84	2.509	2.503	(0.443)	16925	1.10044	1.1004
40 Chloroform (ccc)	83	4.614	4.608	(0.814)	210271	6.32808	6.3281
42 Carbon Tetrachloride	117	4.614	5.028	(0.814)	3355	~~0.47613~~	~~0.47613~~
45 1,2-Dichloroethane	62	5.672	5.326	(1.001)	14538	~~0.75702~~	~~0.75702~~

Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1ac.d
Report Date: 05-Apr-2006 20:51

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
46 Trichloroethene	130	6.110	6.105	(1.078)	19506	0.76462	0.76462
50 Bromodichloromethane	83	6.688	6.683	(1.180)	26947	2.30029	2.3003
53 4-Methyl-2-pentanone	43	7.455	7.376	(1.316)	6898	~~0.85893~~	~~0.85893~~
55 trans-1,3-Dichloropropene	75	7.479	7.784	(0.837)	60	~~0.62920~~	~~0.62920~~
61 Chlorodibromomethane	129	8.349	8.349	(0.935)	2524	1.05261	1.0526
63 Chlorobenzene (spcc)	112	8.957	8.958	(1.003)	12036	0.22250	0.22250
69 Bromoform (spcc)	173	9.772	9.779	(1.094)	115	0.84370	0.84370
85 1,4-Dichlorobenzene	146	11.512	11.519	(1.002)	3358	0.10087	0.10087

4/7/06

Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1ac.d
Report Date: 05-Apr-2006 20:51

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2hcr1ac.d
Lab Smp Id: H2HCR1AC
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Calibration Date: 05-APR-2006
Calibration Time: 14:42
Client Smp ID: G-3097-R3-VOST COND
Level: LOW
Sample Type: WATER
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,focus.sub

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1078707	539354	2157414	919647	-14.75
2 Chlorobenzene-d5	188899	94450	377798	170310	-9.84
3 1,4 Dichlorobenze	220143	110072	440286	204506	-7.10

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.67	5.17	6.17	5.67	-0.01
2 Chlorobenzene-d5	8.93	8.43	9.43	8.93	-0.01
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	0.00

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

Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1ac.d
Report Date: 05-Apr-2006 20:51

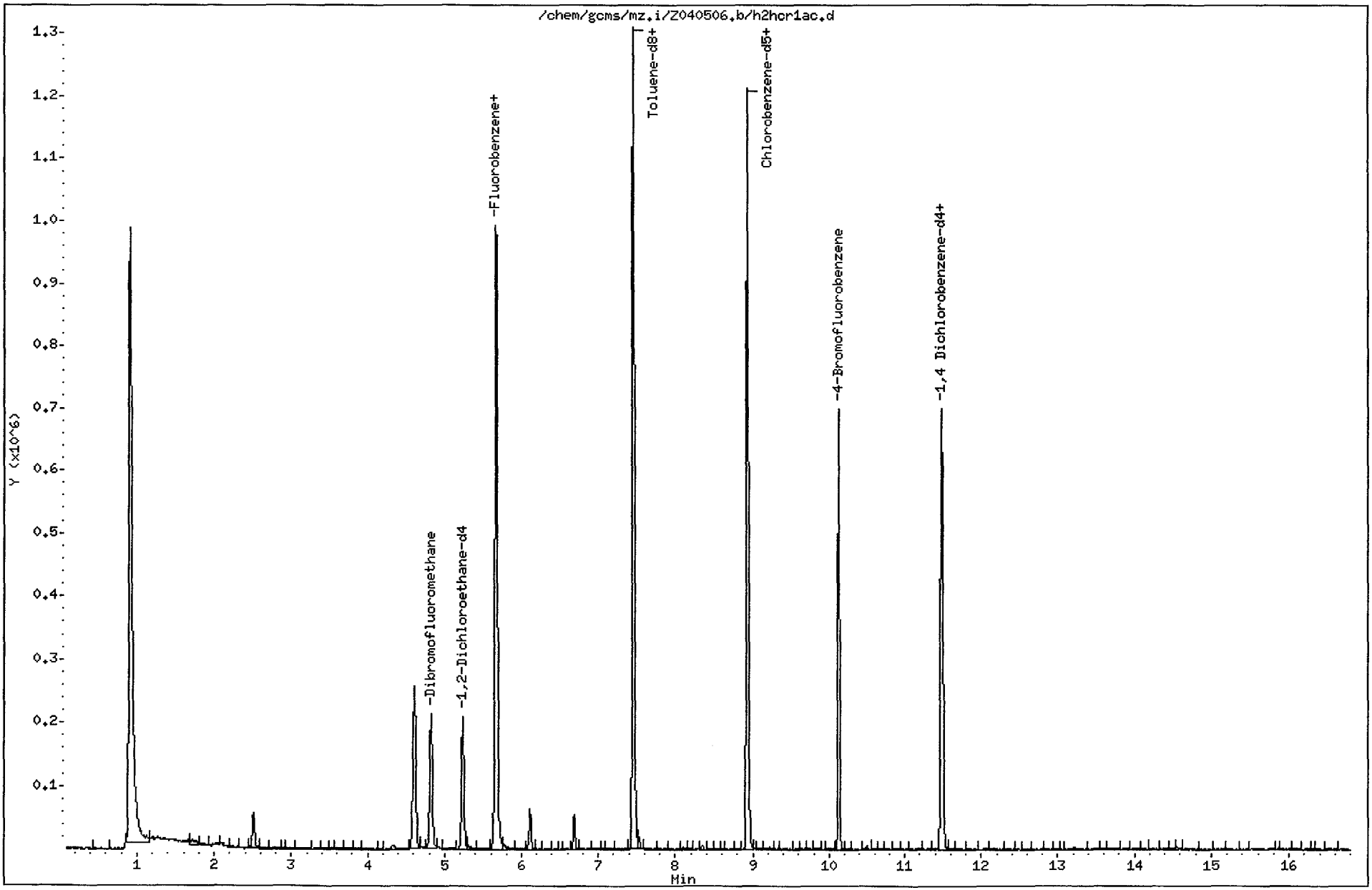
STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030169
Sample Matrix: LIQUID
Fraction: VOA
Lab Smp Id: H2HCR1AC
Client Smp ID: G-3097-R3-VOST COND
Level: LOW
Operator: 063605
Data Type: MS DATA
SampleType: SAMPLE DUPLICATE{♥ᴸÇz·H @
SpikeList File: allcmpds.spk
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,focus.sub

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 5 1,2-Dichloroethane	10.000	10.970	109.70	71-127
$ 4 Dibromofluorometha	10.000	10.939	109.39	79-120
$ 6 Toluene-d8	10.000	9.9700	99.70	80-120
$ 7 4-Bromofluorobenze	10.000	9.3746	93.75	69-126

Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1ac.d
Date : 05-APR-2006 20:33
Client ID: G-3097-R3-VOST COND
Instrument: mz.i
Sample Info: H2HCR1AC,1,0,,
Purge Volume: 25.0
Operator: 063605
Column phase: J+W 624
Column diameter: 0.18



Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1ac.d

Date : 05-APR-2006 20:33

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AC,1,0,,

Purge Volume: 25.0

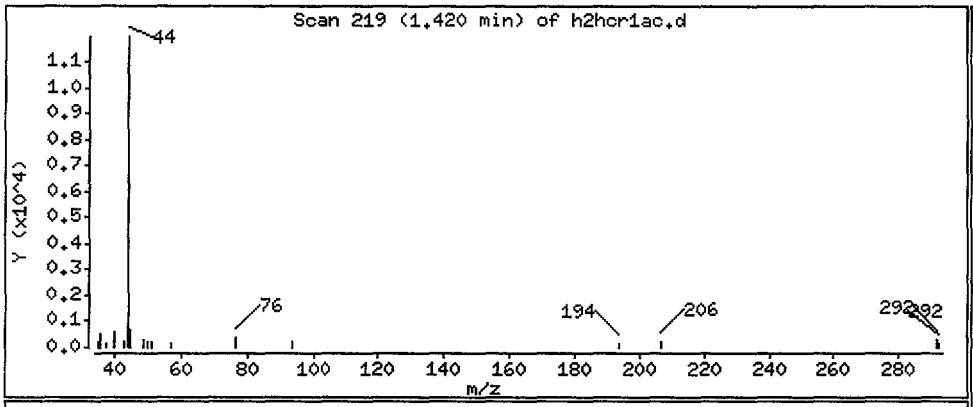
Operator: 063605

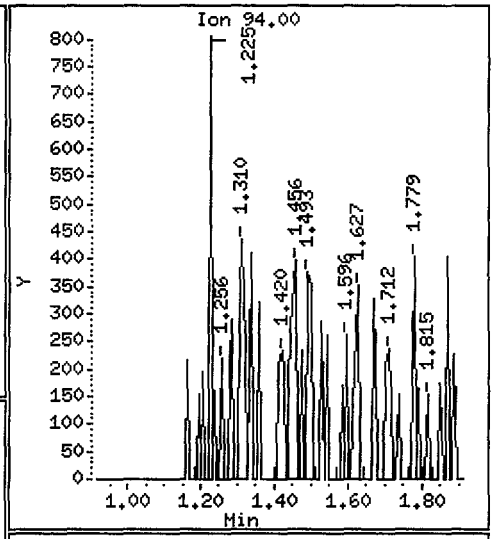
Column phase: J+W 624

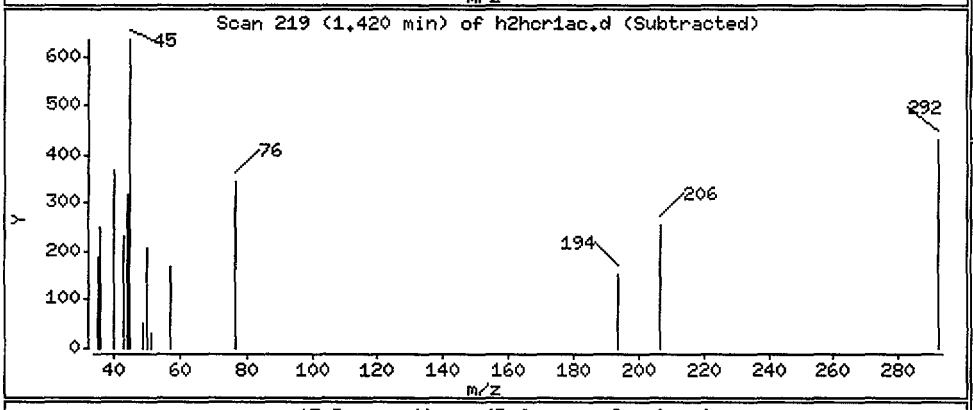
Column diameter: 0.18

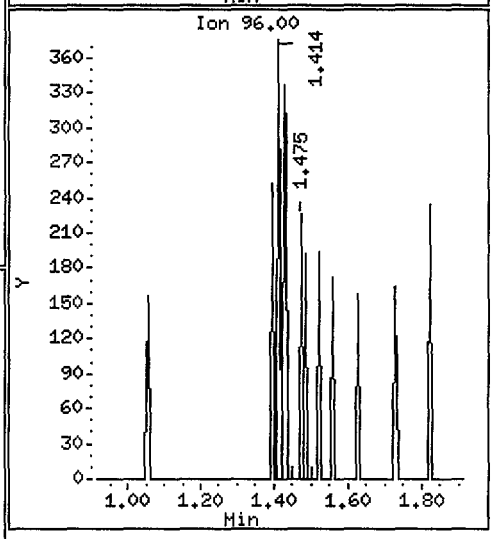
15 Bromomethane

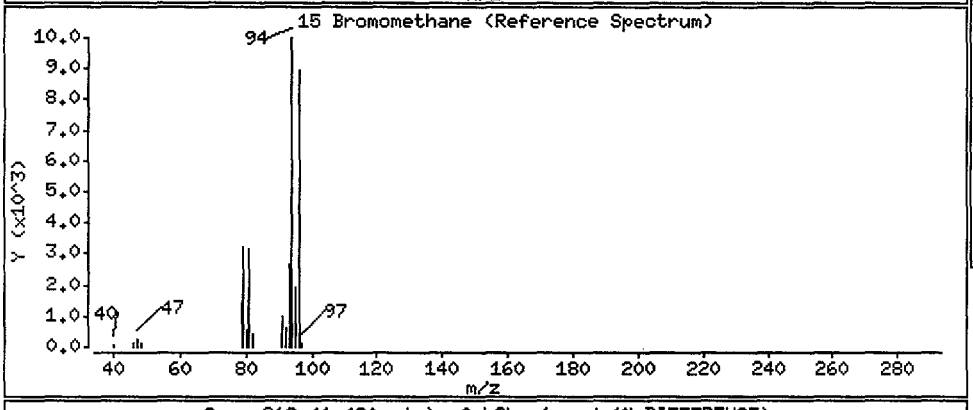
Concentration: 0.86422 ug/L

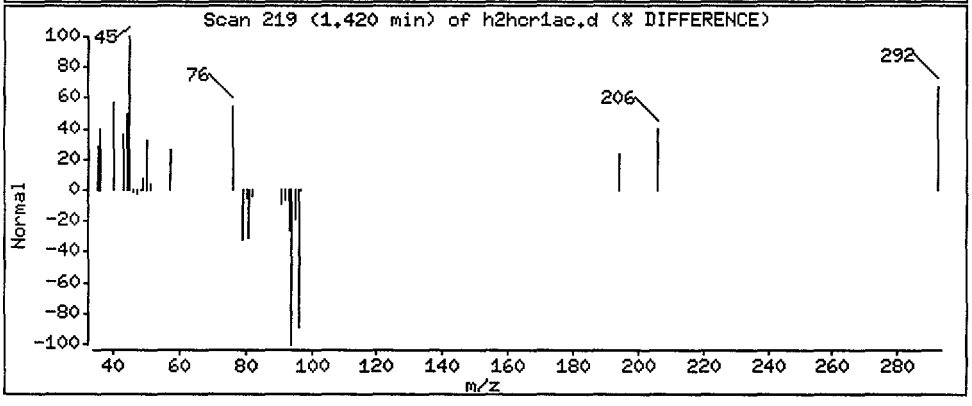












Data File: /var/chem/gcms/mz.i/Z040506.b/h2hcr1ac.d

Date : 05-APR-2006 20:33

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AC,1,0,,

Purge Volume: 25.0

Operator: 063605

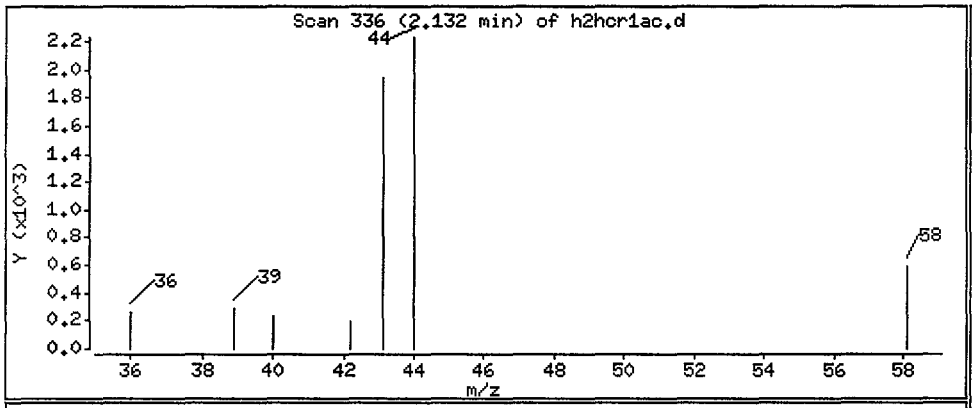
Column phase: J+W 624

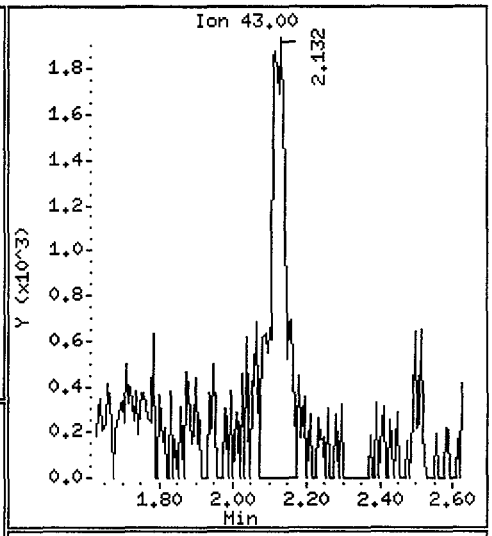
Column diameter: 0.18

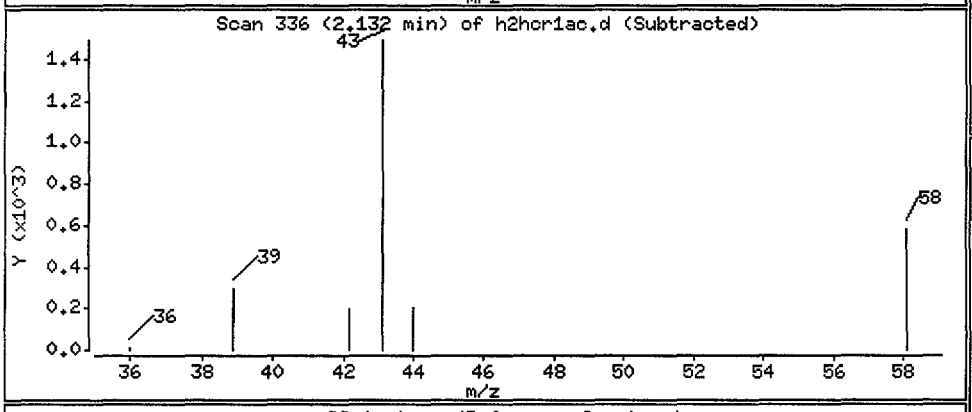
MT 4/7/06 split peak

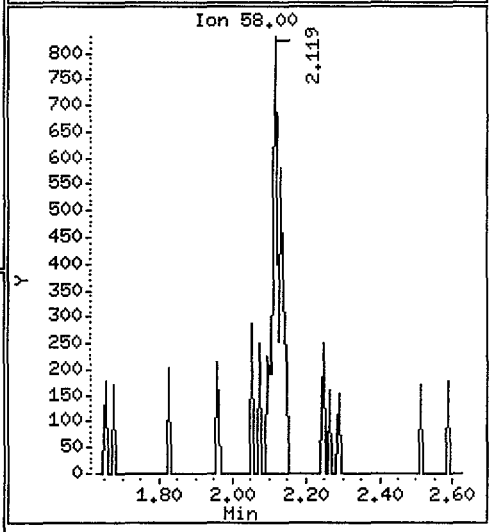
22 Acetone

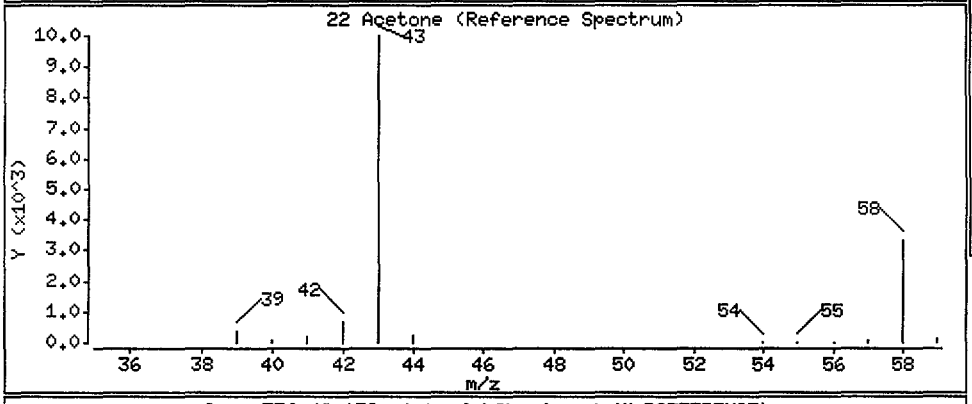
Concentration: 4.3376 ug/L

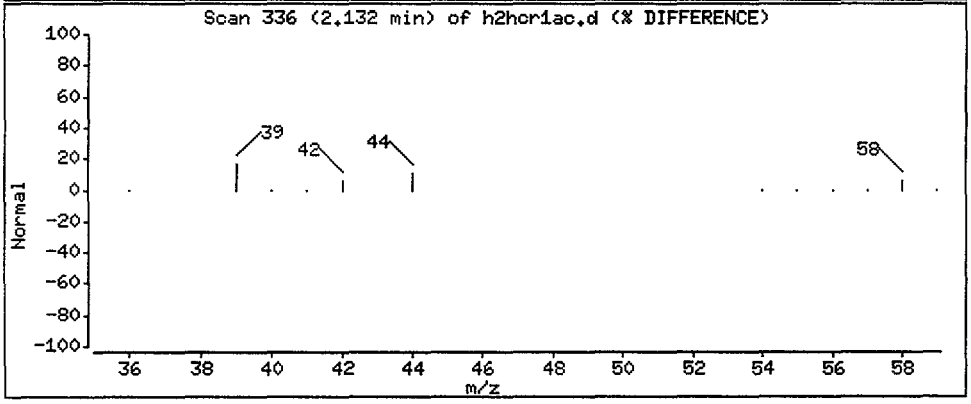












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1ac.d

Date : 05-APR-2006 20:33

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AC,1,0,,

Purge Volume: 25.0

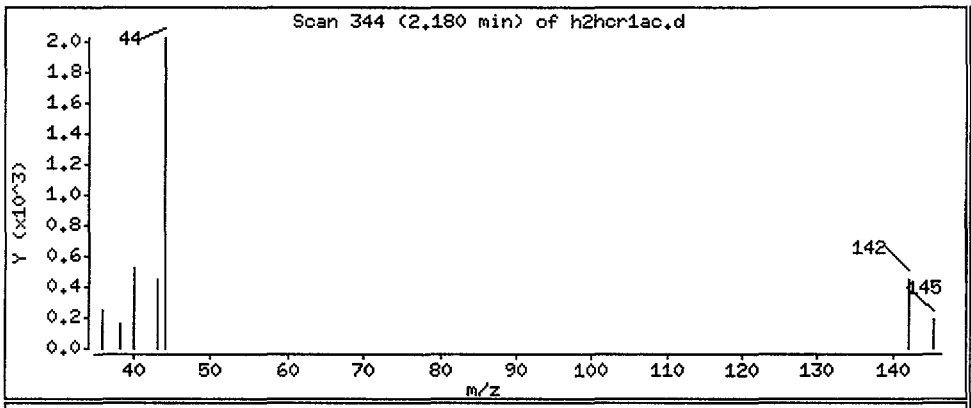
Operator: 063605

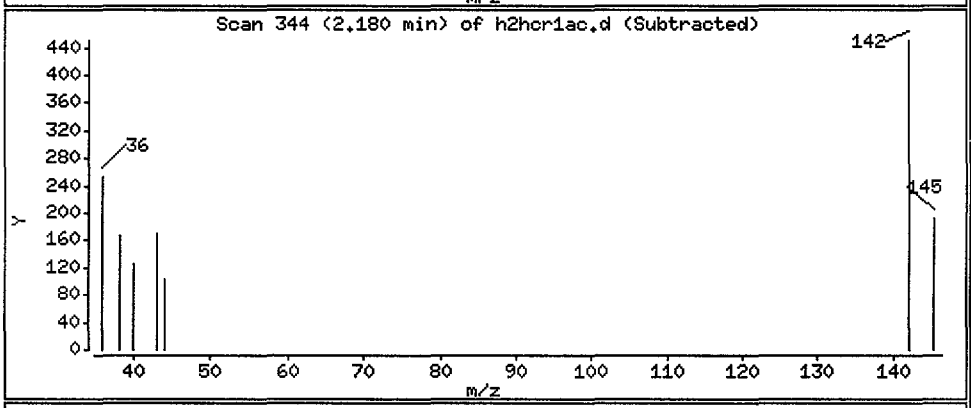
Column phase: J+W 624

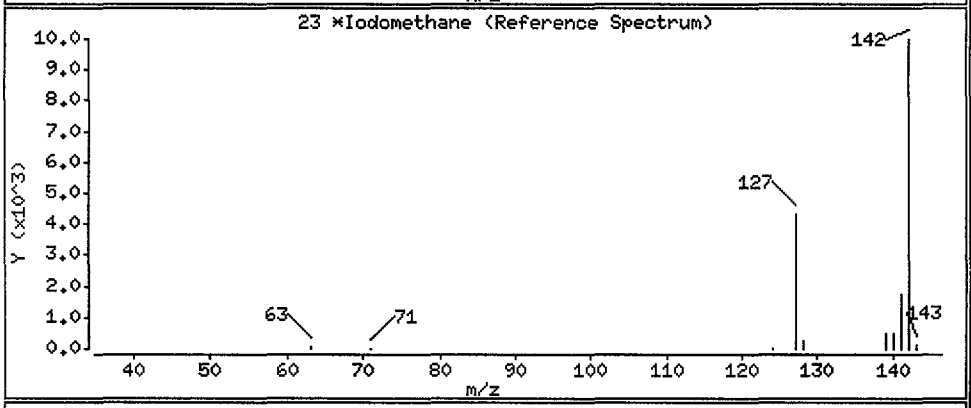
Column diameter: 0.18

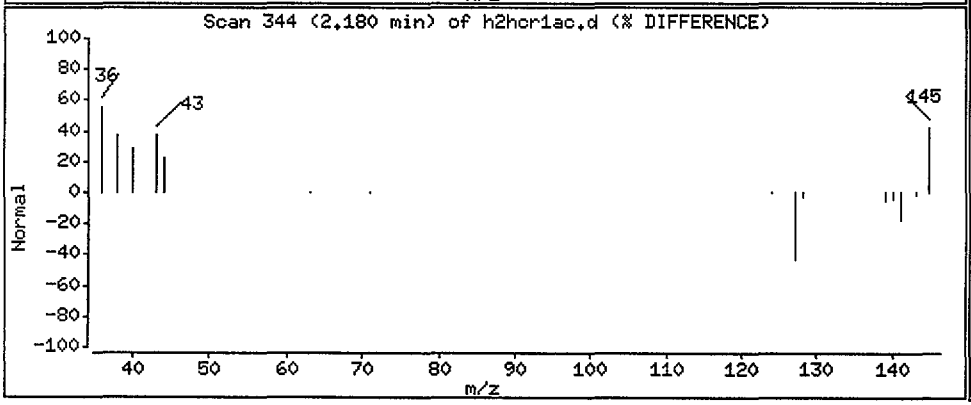
23 *Iodomethane

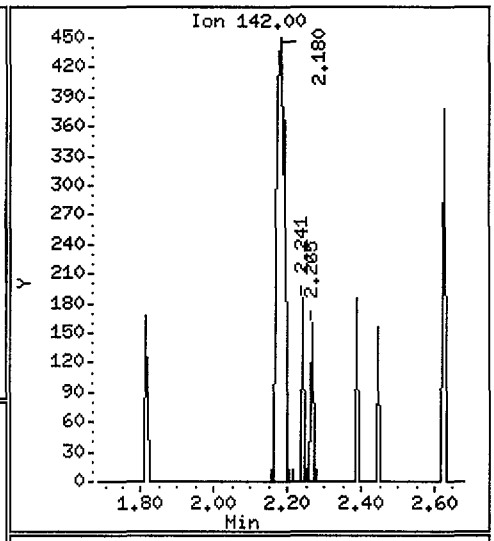
Concentration: 0.54845 ug/L

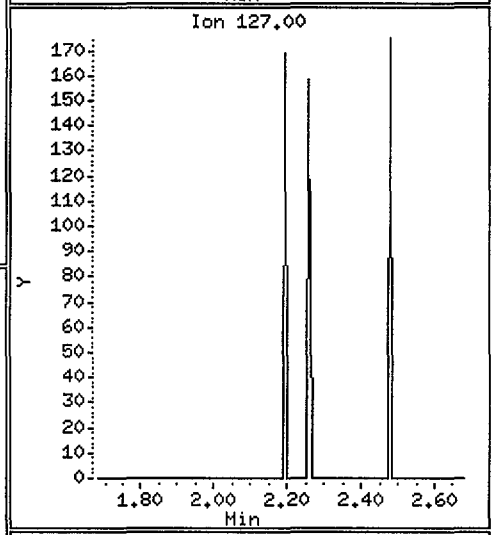


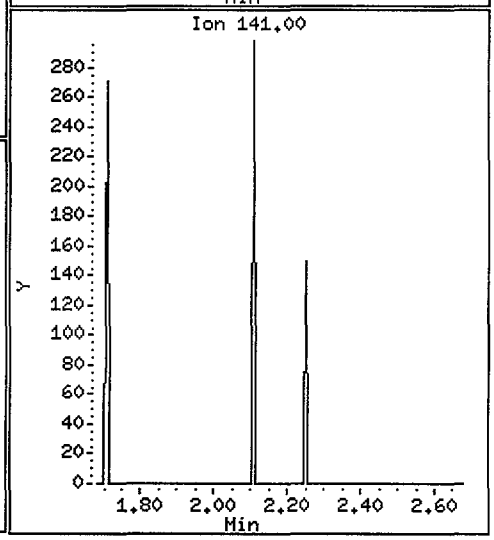












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1ac.d

Date : 05-APR-2006 20:33

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AC,1,0,,

Purge Volume: 25.0

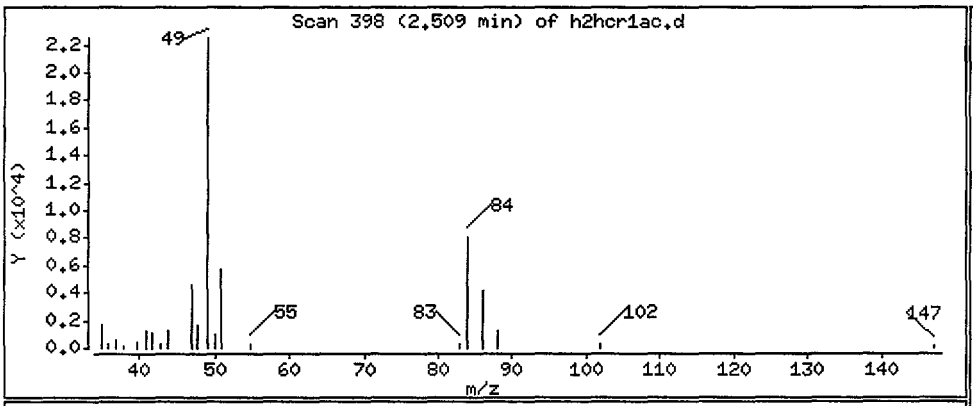
Operator: 063605

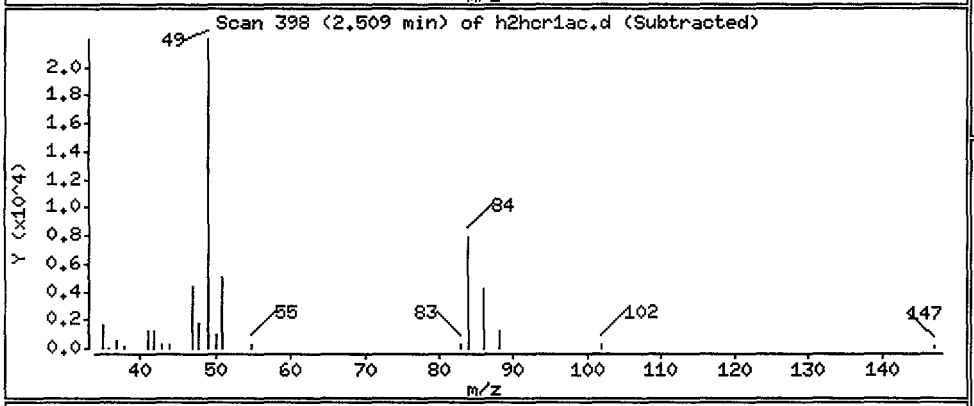
Column phase: J+W 624

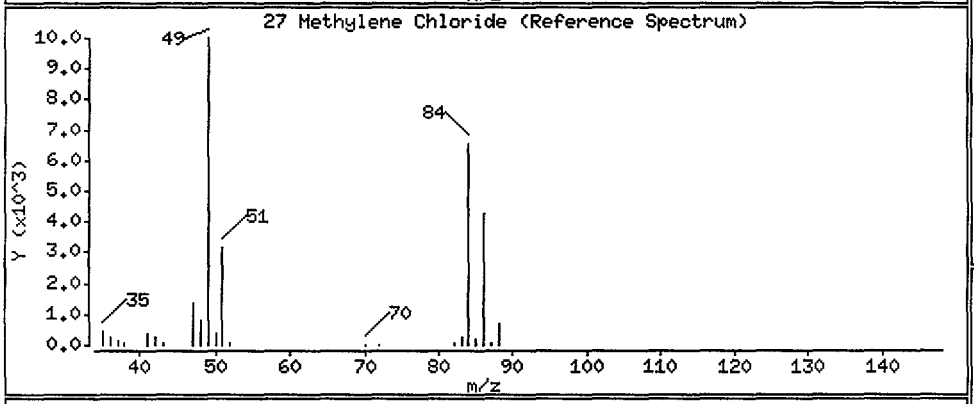
Column diameter: 0.18

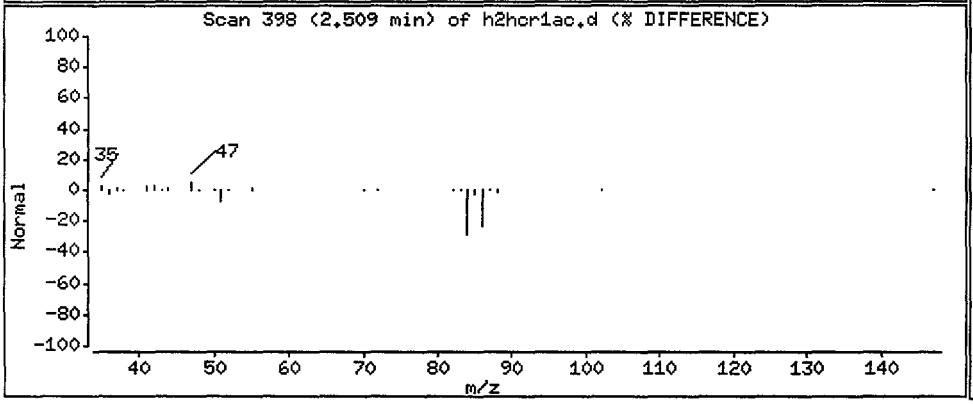
27 Methylene Chloride

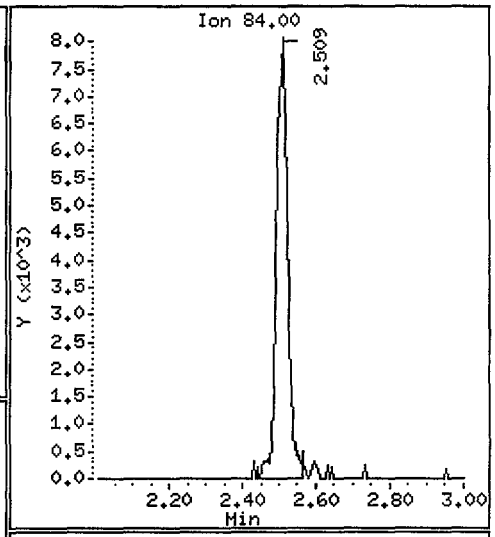
Concentration: 1.1004 ug/L

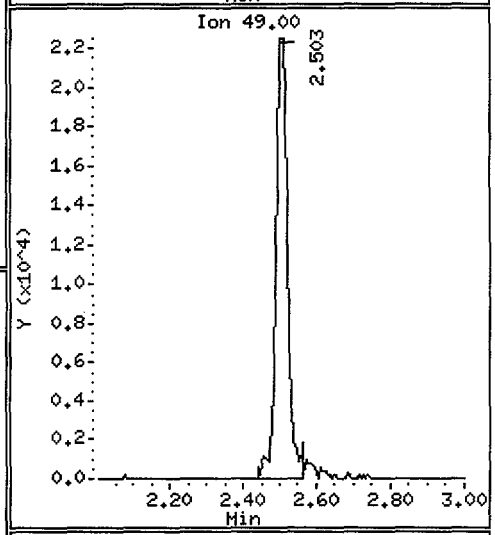


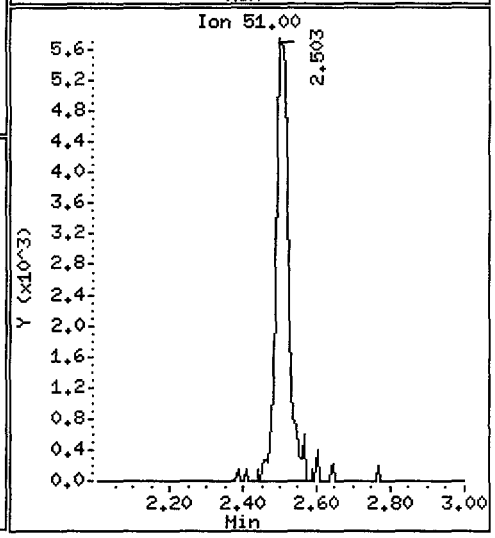












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1ac.d

Date : 05-APR-2006 20:33

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AC,1,0,,

Purge Volume: 25.0

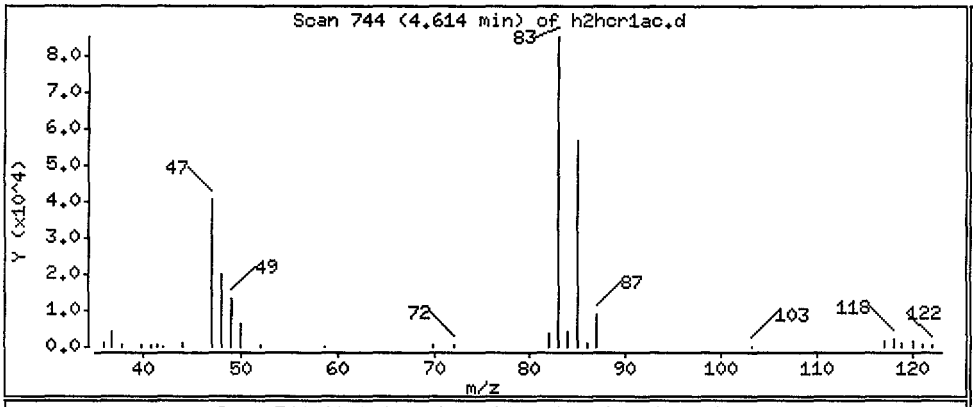
Operator: 063605

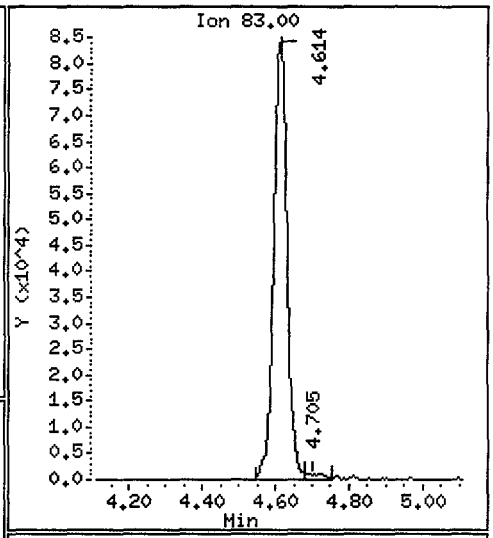
Column phase: J+W 624

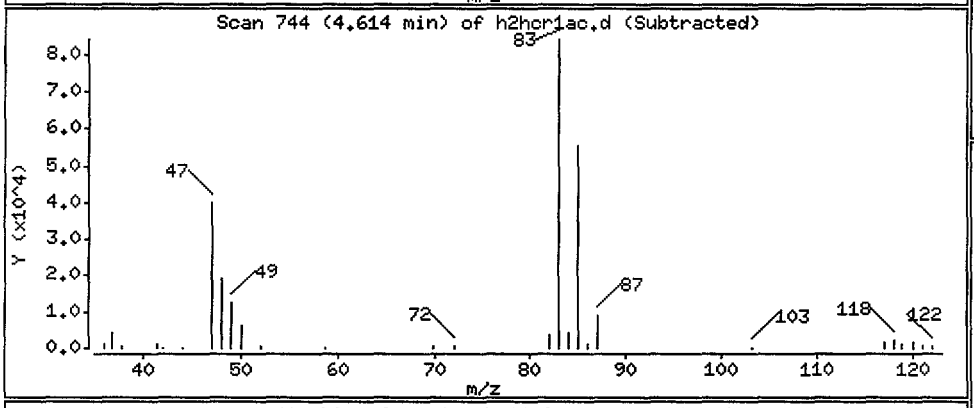
Column diameter: 0.18

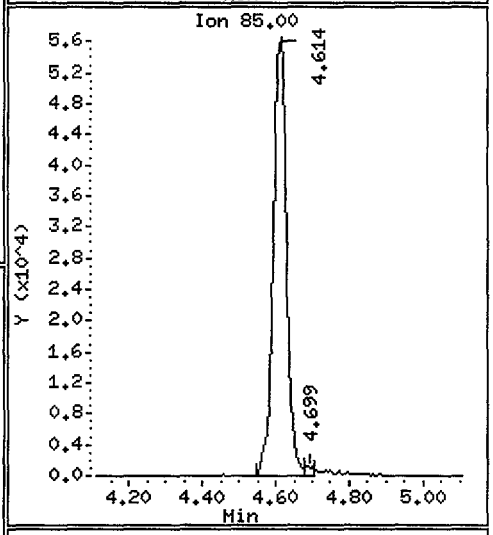
40 Chloroform (ccc)

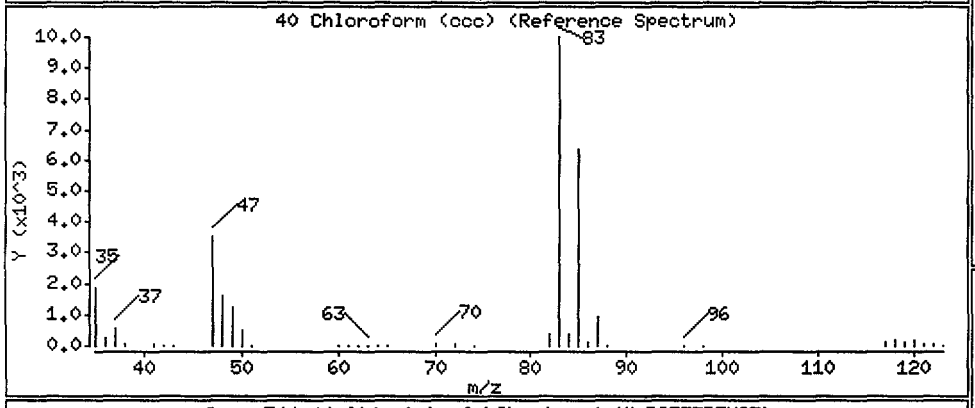
Concentration: 6.3281 ug/L

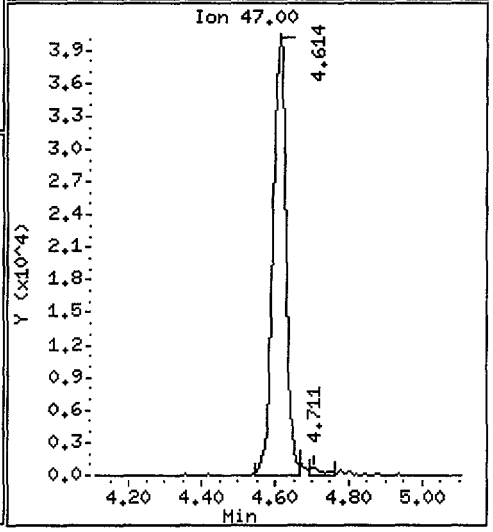


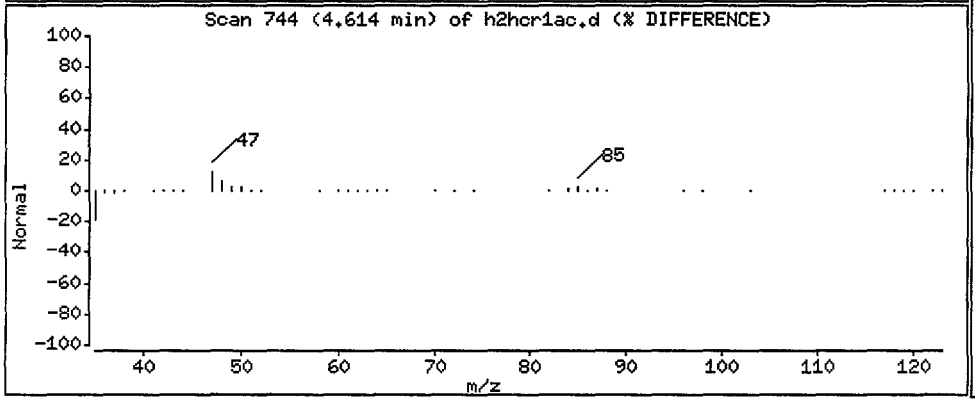












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1ac.d

Date : 05-APR-2006 20:33

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AC,1,0,,

Purge Volume: 25.0

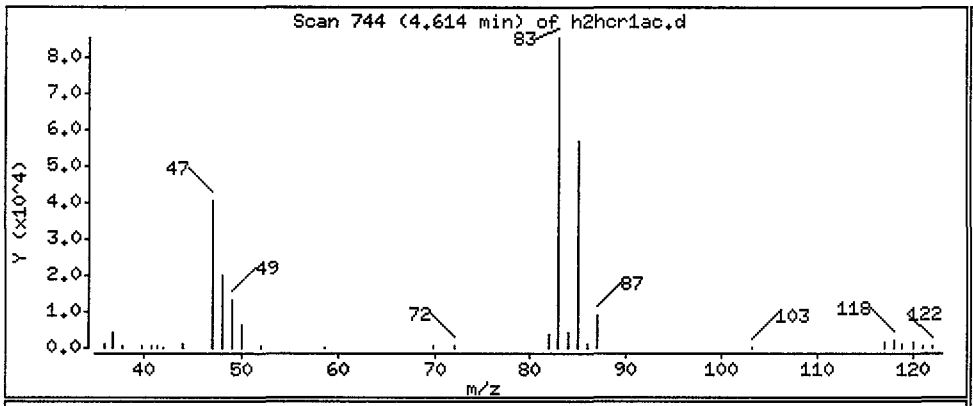
Operator: 063605

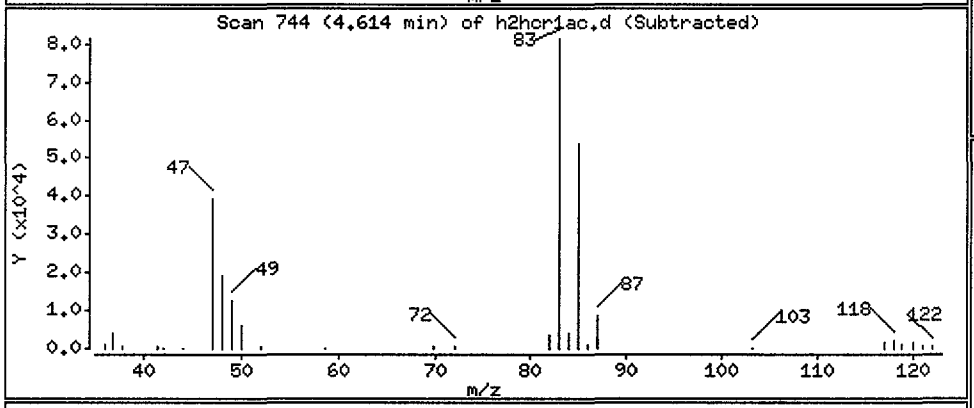
Column phase: J+W 624

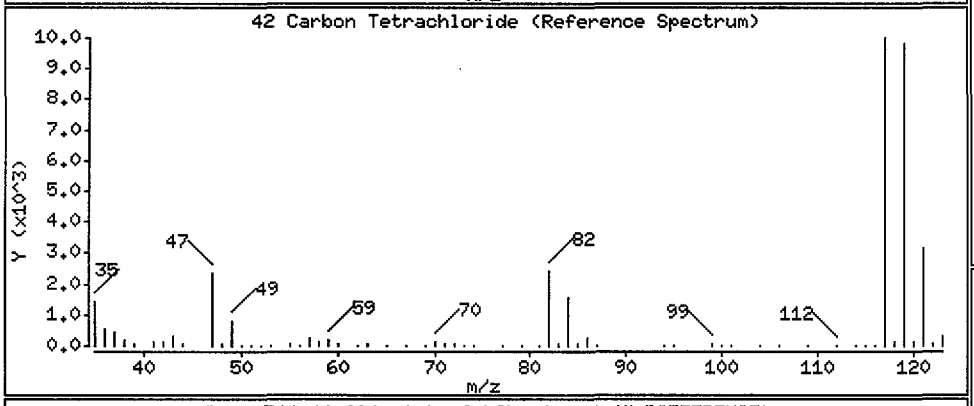
Column diameter: 0.18

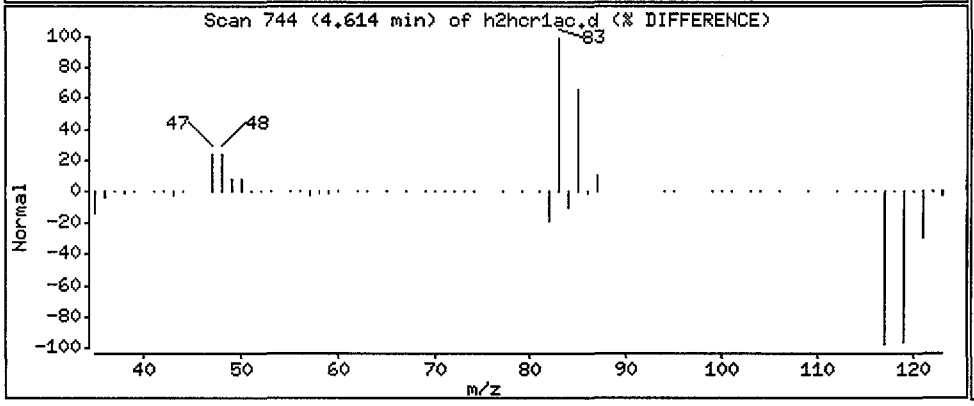
42 Carbon Tetrachloride

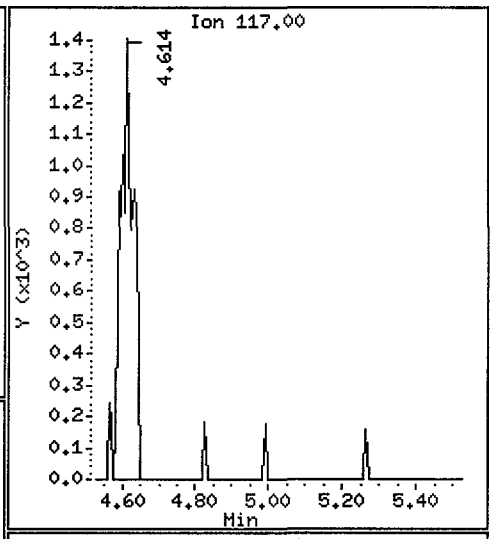
Concentration: 0.47613 ug/L

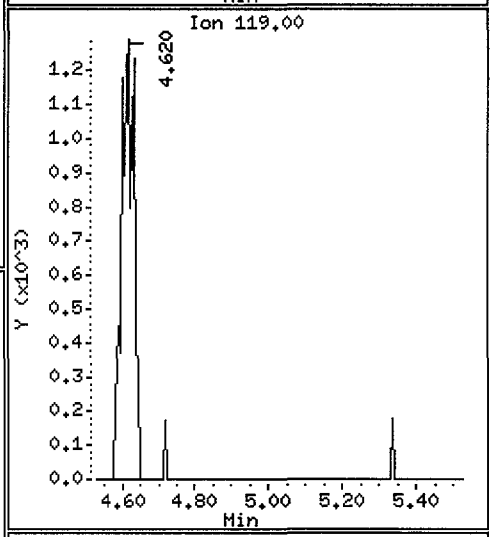


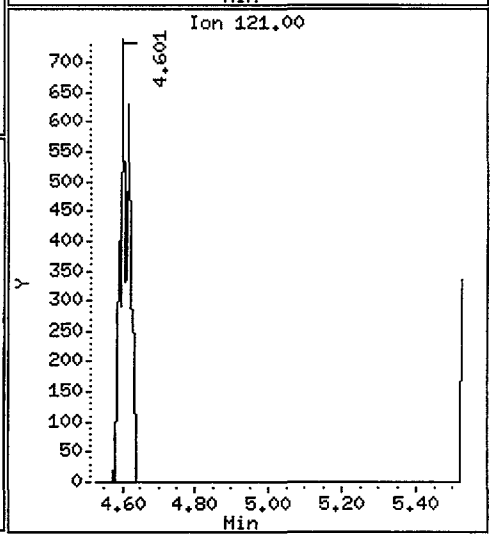












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1ac.d

Date : 05-APR-2006 20:33

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AC,1,0,,

Purge Volume: 25.0

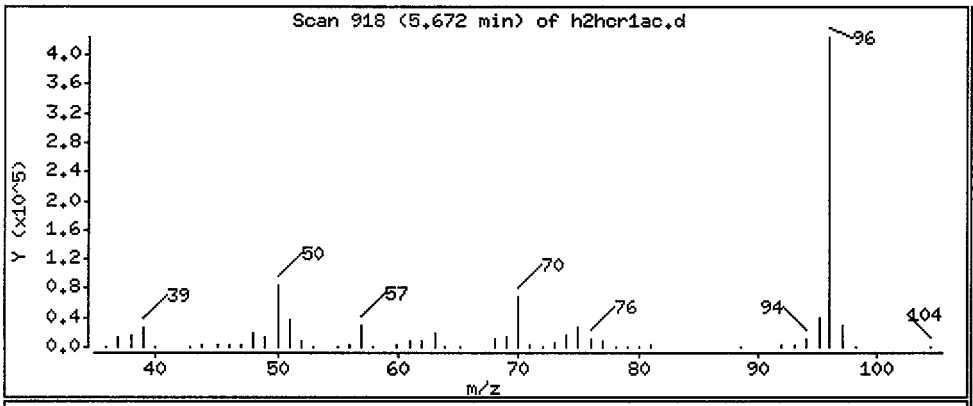
Operator: 063605

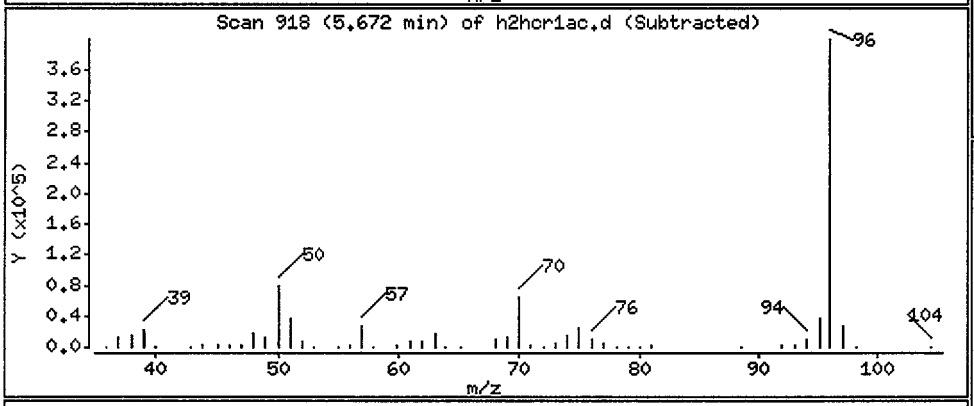
Column phase: J+W 624

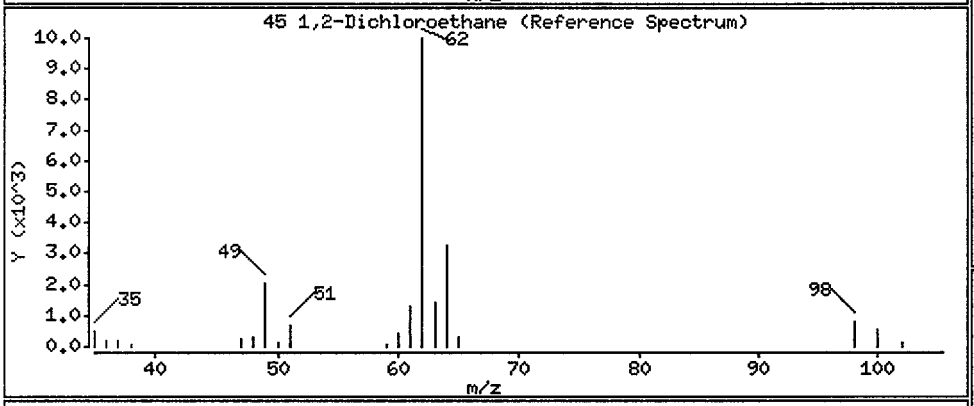
Column diameter: 0.18

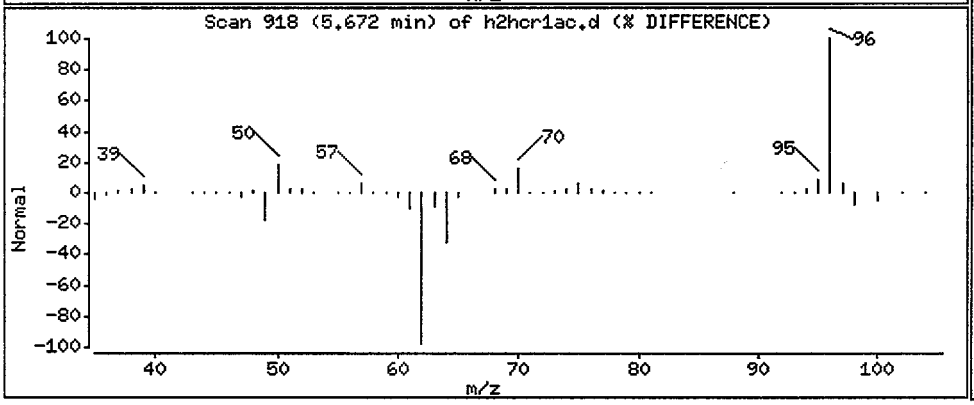
45 1,2-Dichloroethane

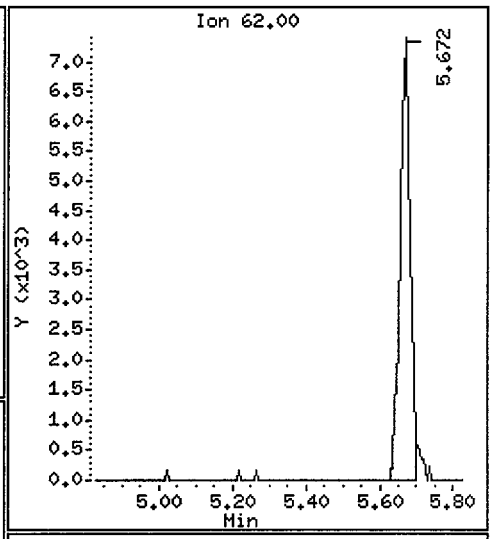
Concentration: 0.75702 ug/L

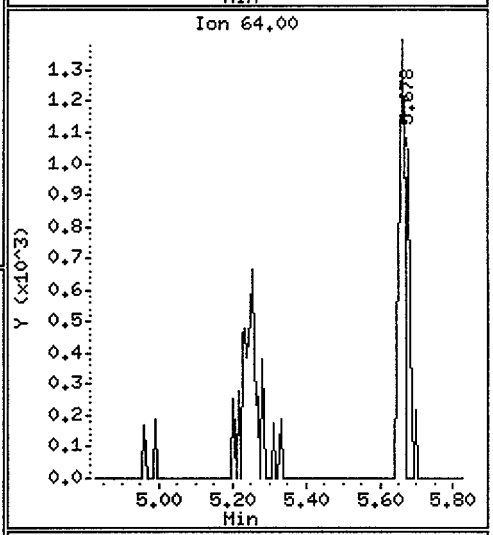


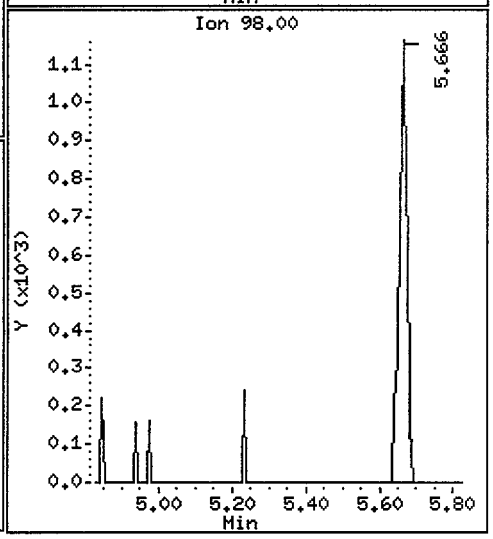












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1ac.d

Date : 05-APR-2006 20:33

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AC,1,0,,

Purge Volume: 25.0

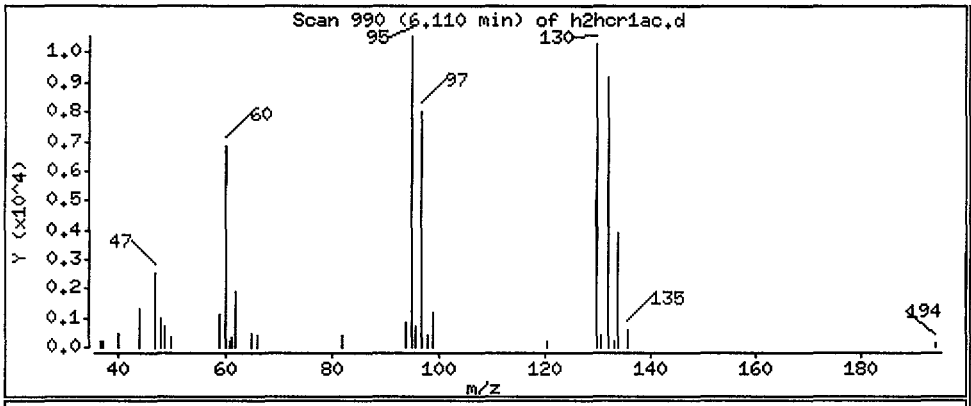
Operator: 063605

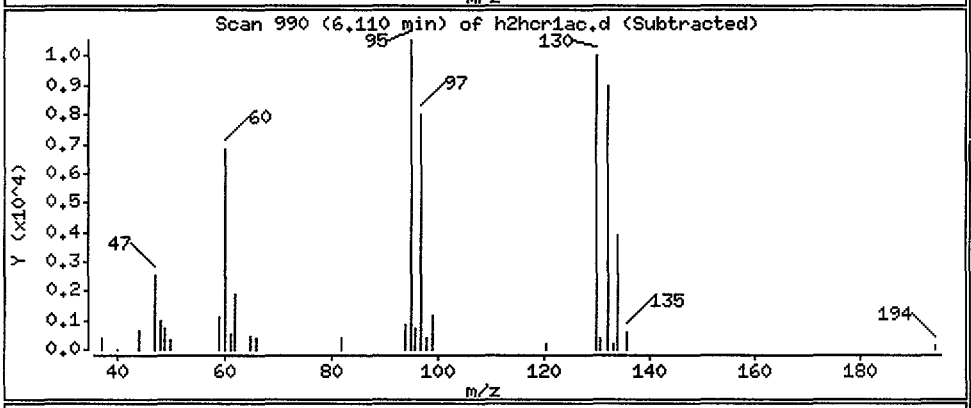
Column phase: J+W 624

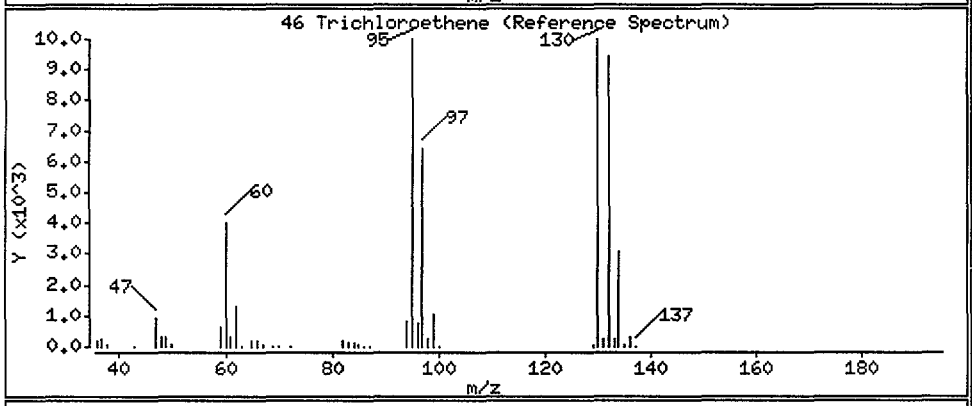
Column diameter: 0.18

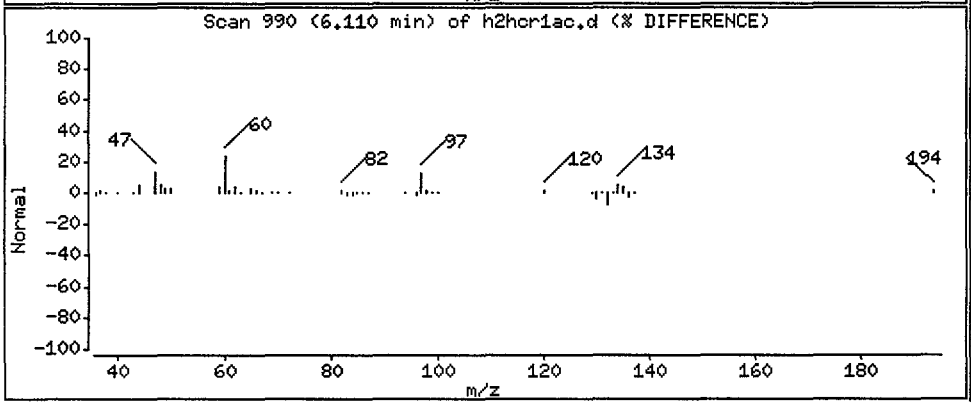
46 Trichloroethene

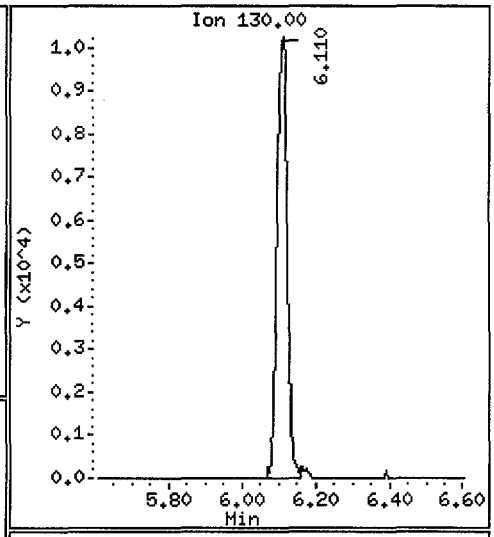
Concentration: 0.76462 ug/L

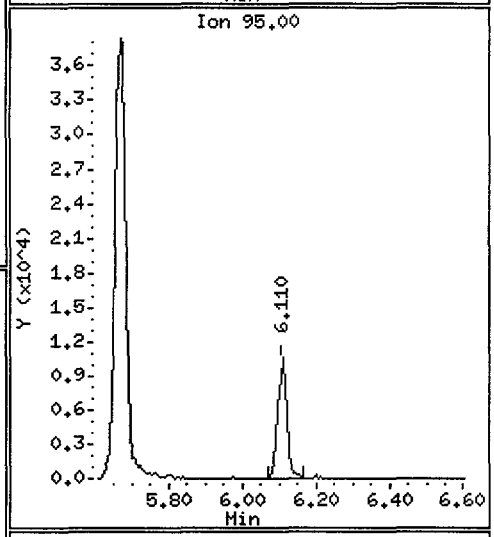


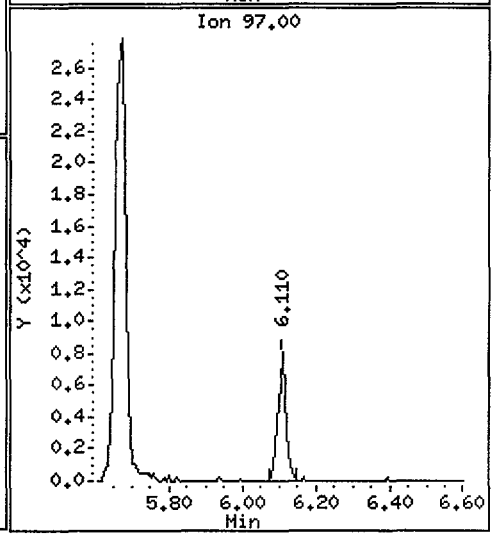












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1ac.d

Date : 05-APR-2006 20:33

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AC,1,0,,

Purge Volume: 25.0

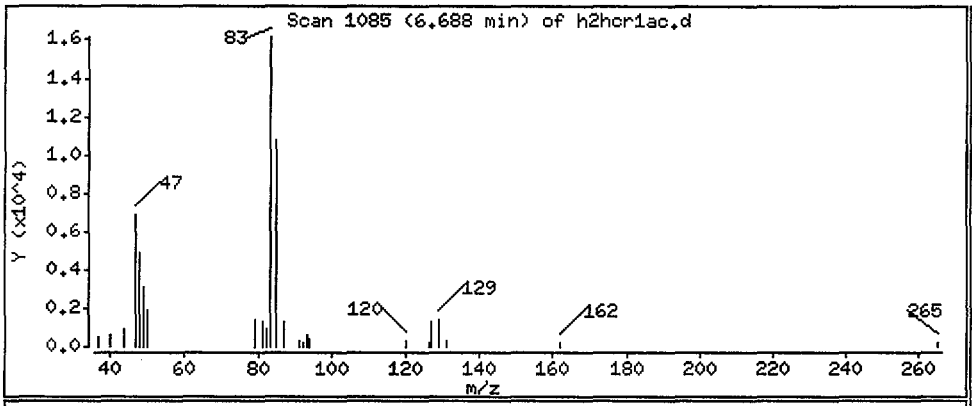
Operator: 063605

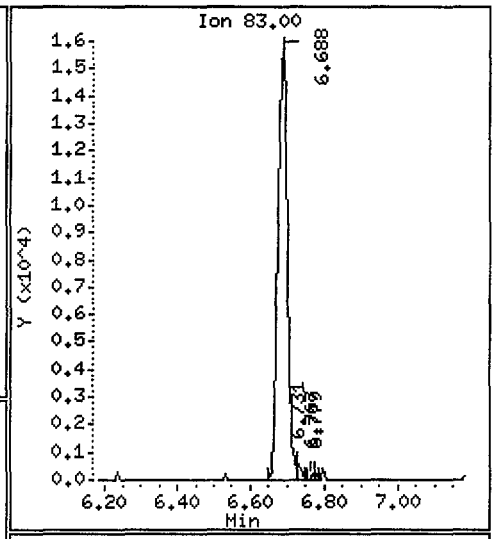
Column phase: J+W 624

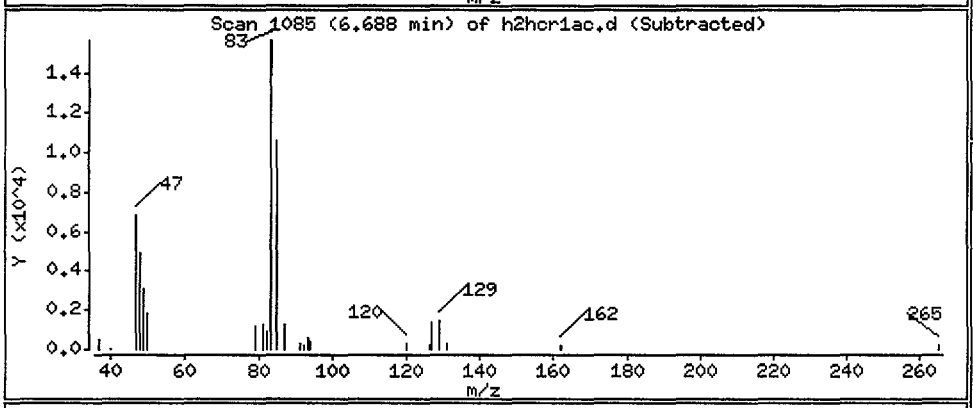
Column diameter: 0.18

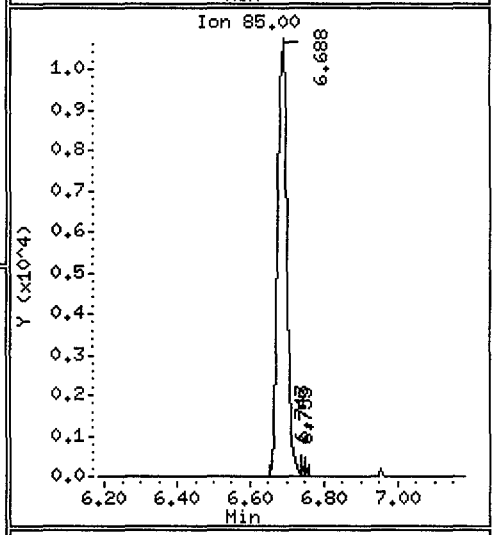
50 Bromodichloromethane

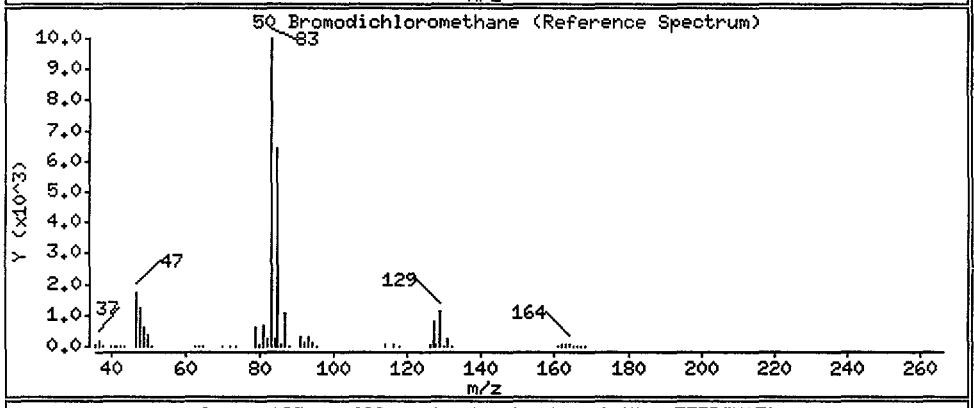
Concentration: 2.3003 ug/L

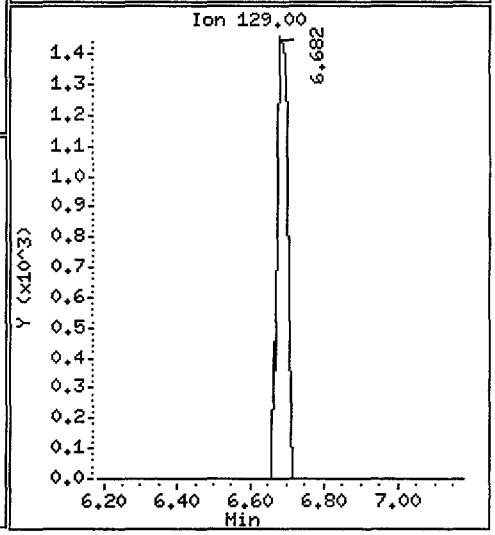


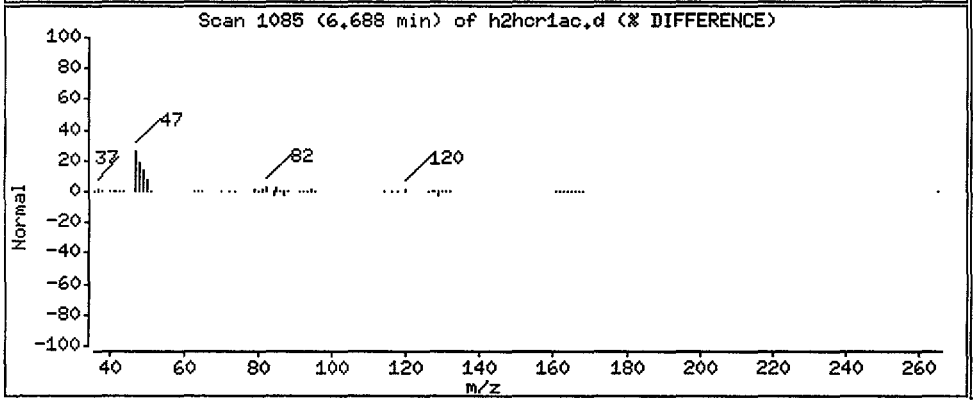












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1ac.d

Date : 05-APR-2006 20:33

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AC,1,0,,

Purge Volume: 25.0

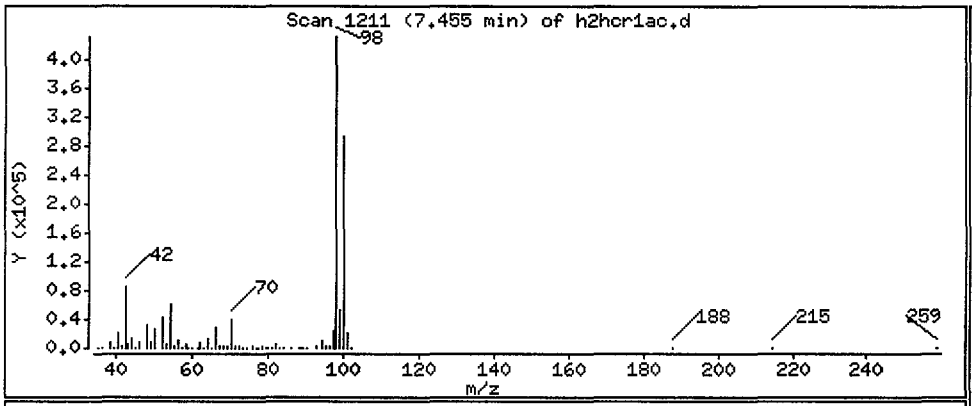
Operator: 063605

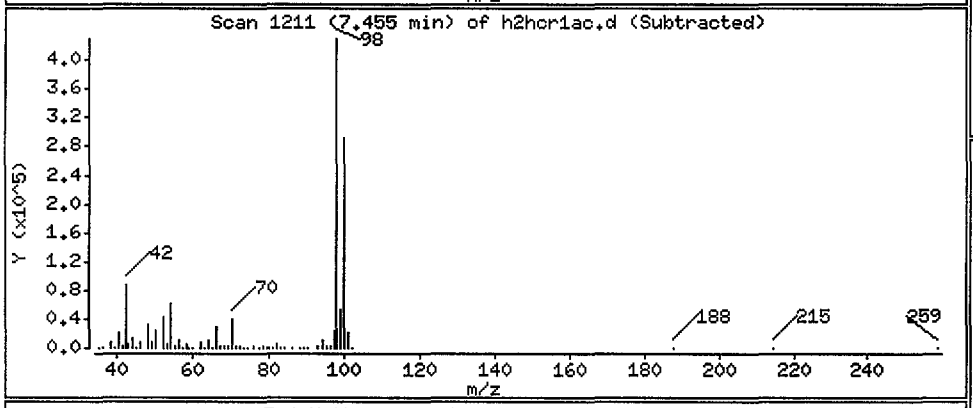
Column phase: J+W 624

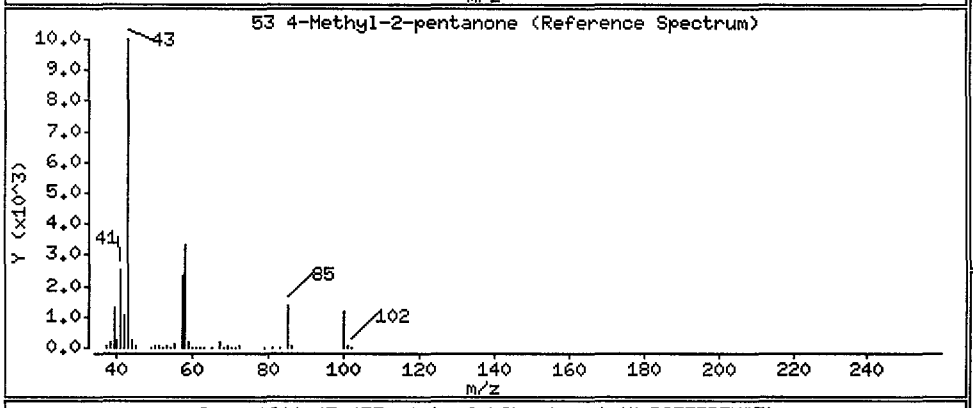
Column diameter: 0.18

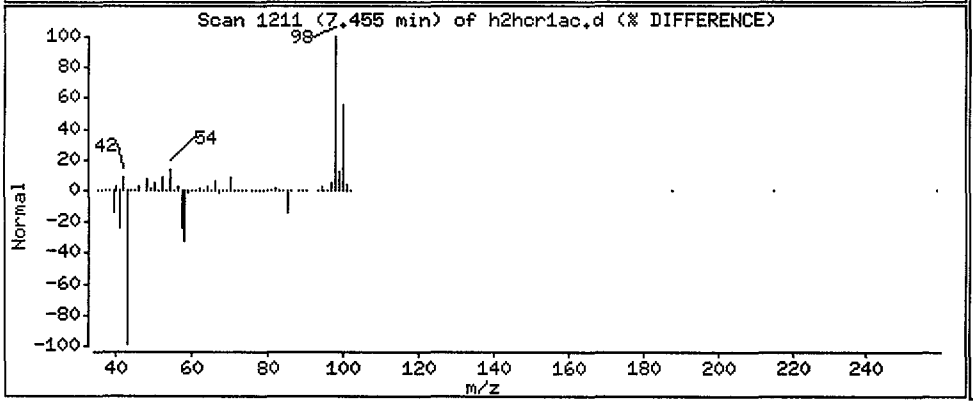
53 4-Methyl-2-pentanone

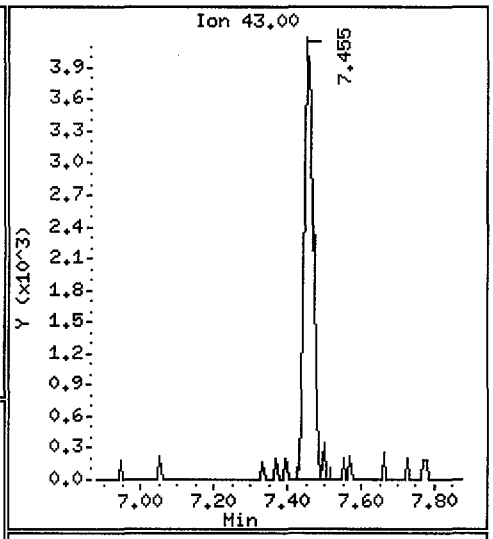
Concentration: 0.85893 ug/L

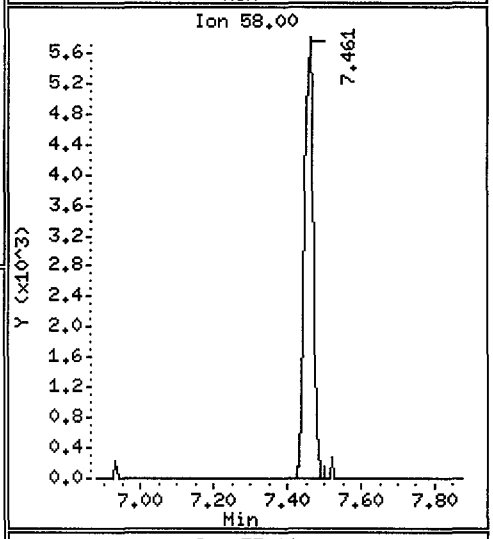


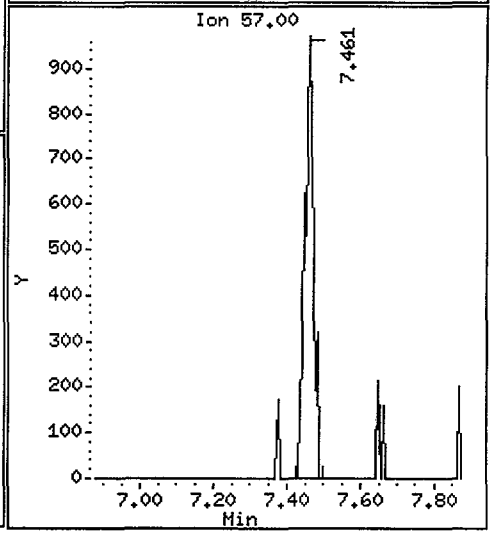












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1ac.d

Date : 05-APR-2006 20:33

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AC,1,0,,

Purge Volume: 25.0

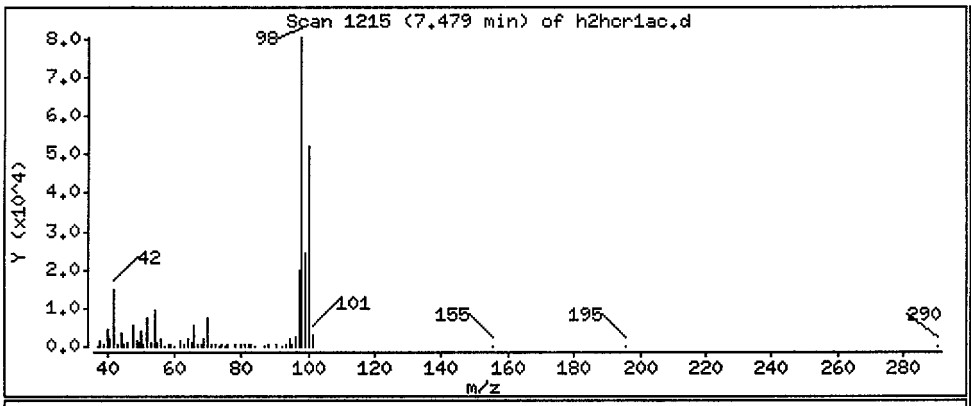
Operator: 063605

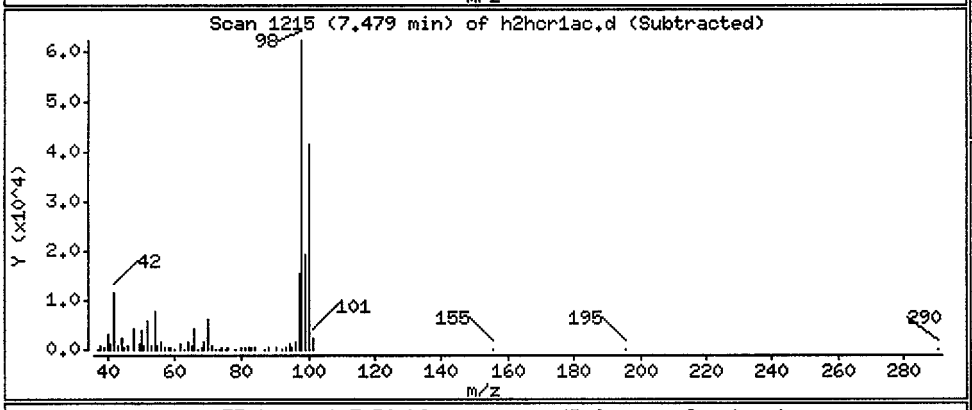
Column phase: J+W 624

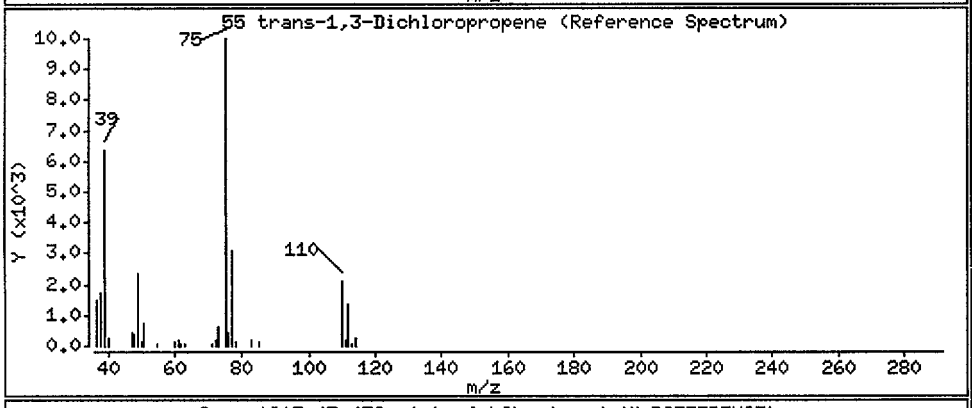
Column diameter: 0.18

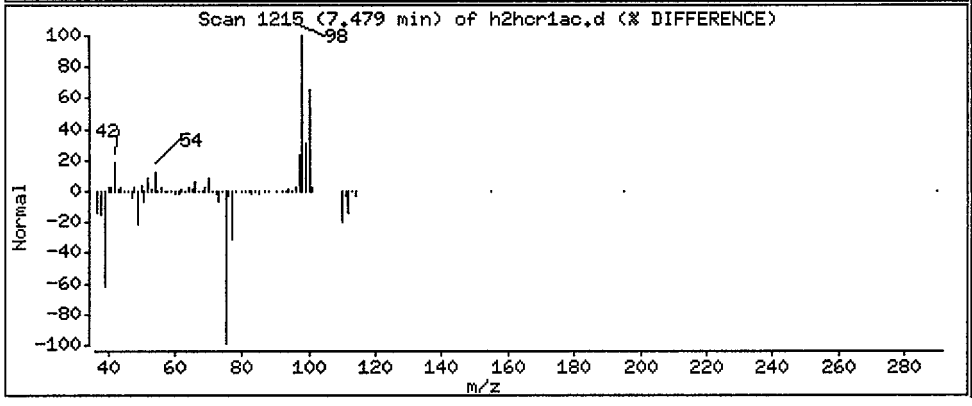
55 trans-1,3-Dichloropropene

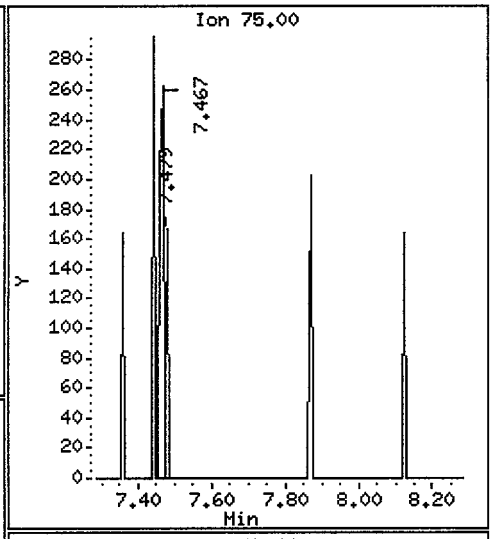
Concentration: 0.62920 ug/L

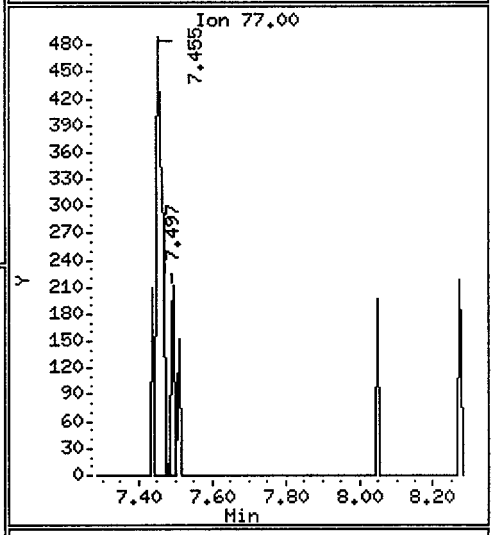


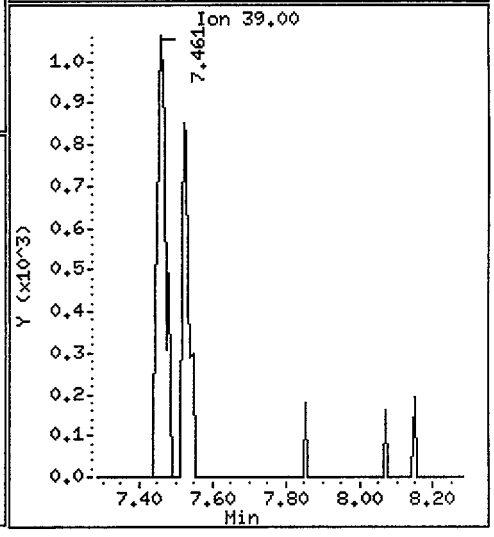












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1ac.d

Date : 05-APR-2006 20:33

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AC,1,0,,

Purge Volume: 25.0

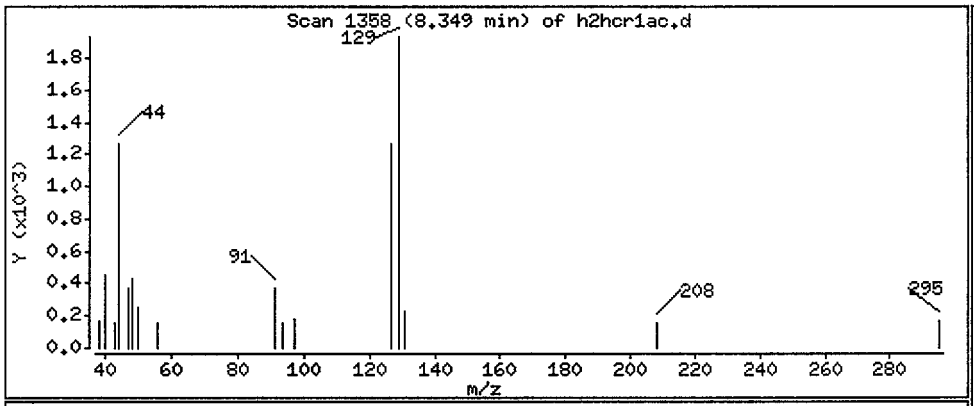
Operator: 063605

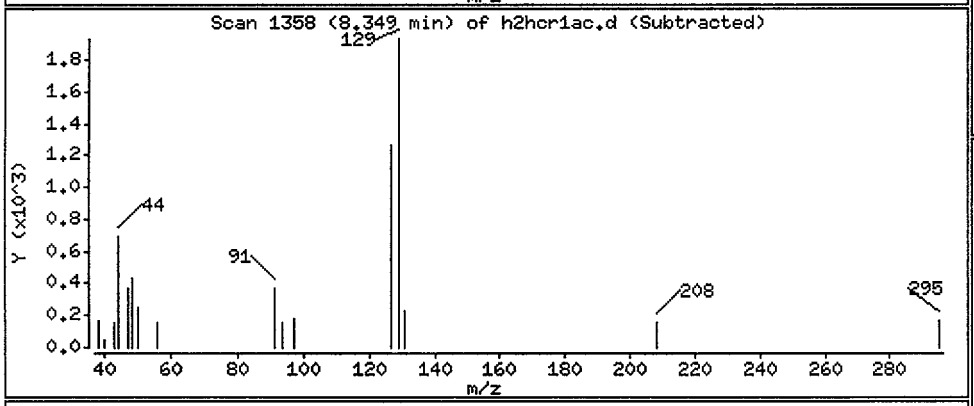
Column phase: J+W 624

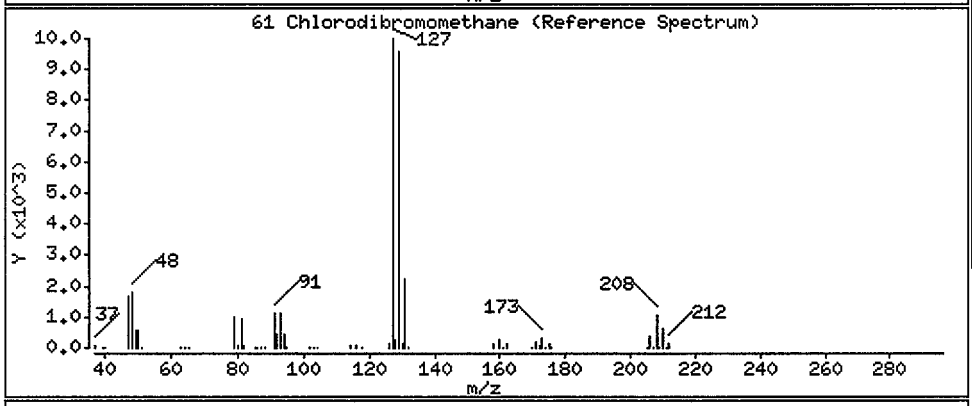
Column diameter: 0.18

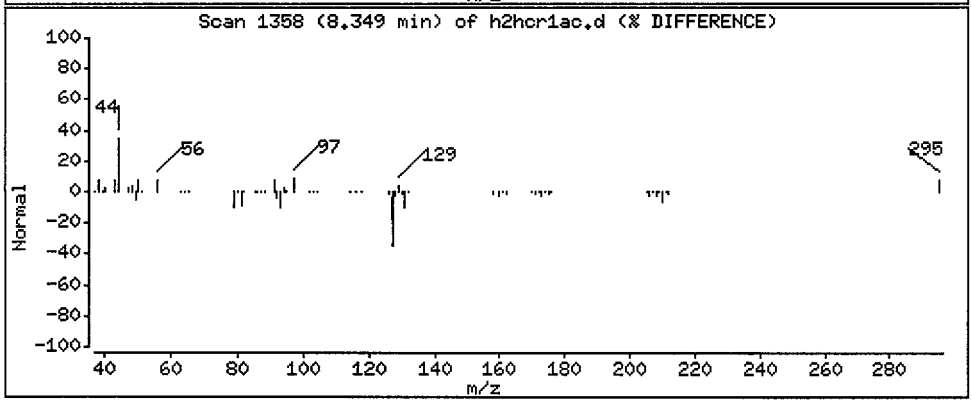
61 Chlorodibromomethane

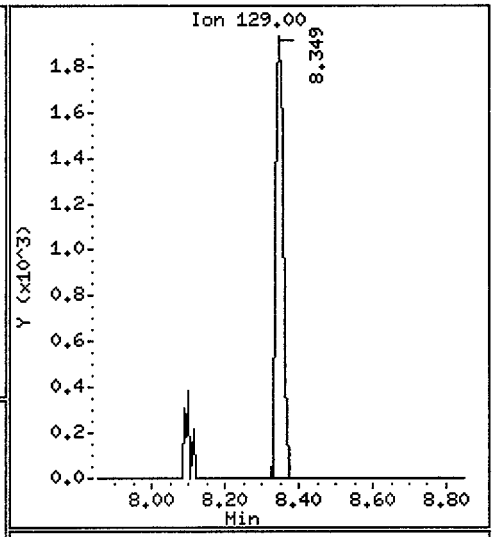
Concentration: 1.0526 ug/L

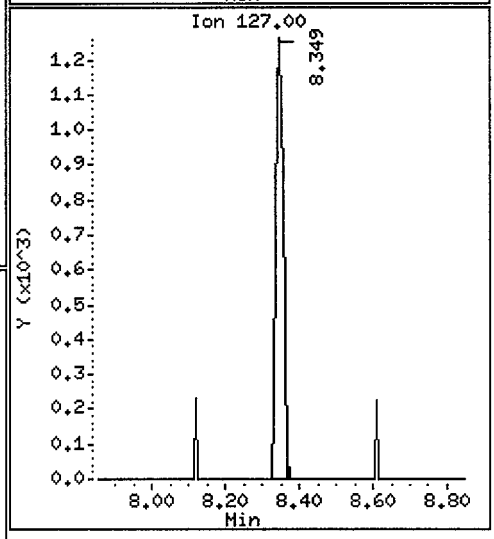












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1ac.d

Date : 05-APR-2006 20:33

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AC,1,0,,

Purge Volume: 25.0

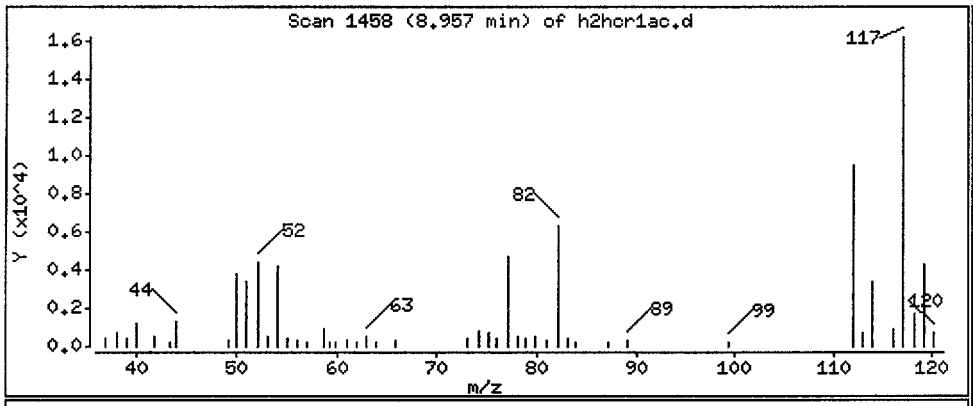
Operator: 063605

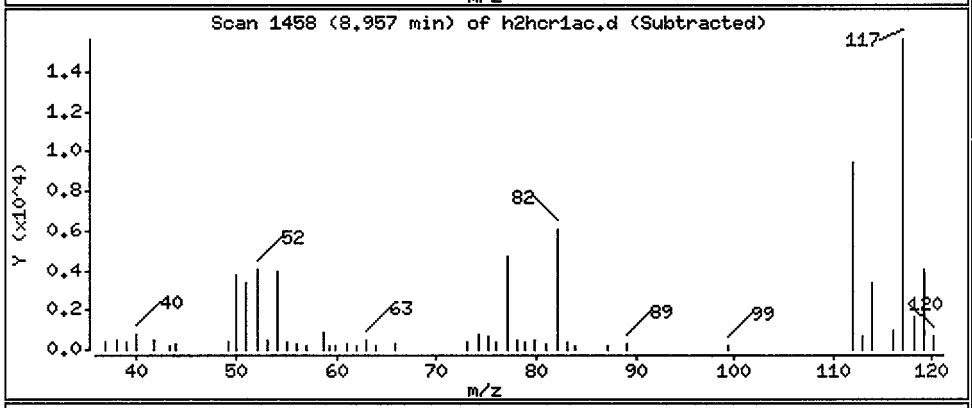
Column phase: J+W 624

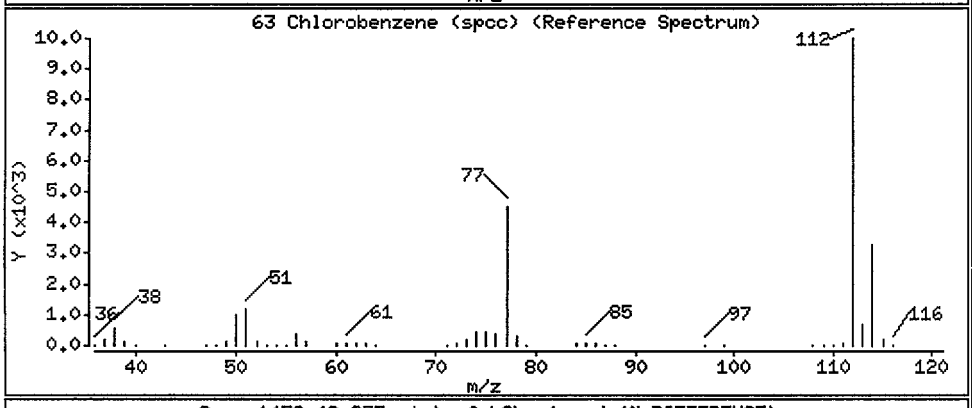
Column diameter: 0.18

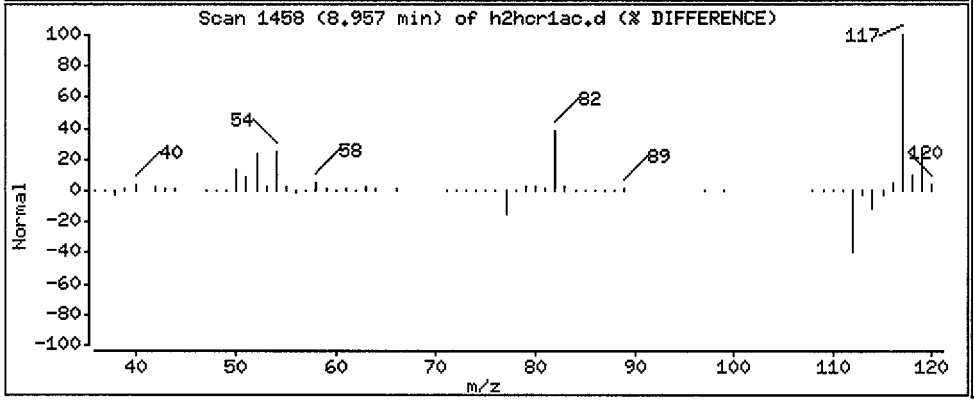
63 Chlorobenzene (spcc)

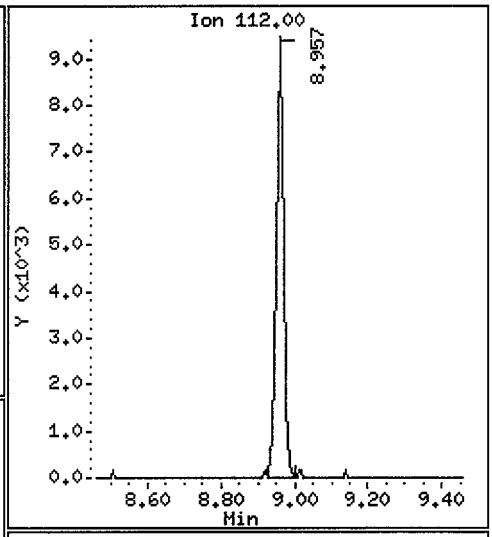
Concentration: 0.22250 ug/L

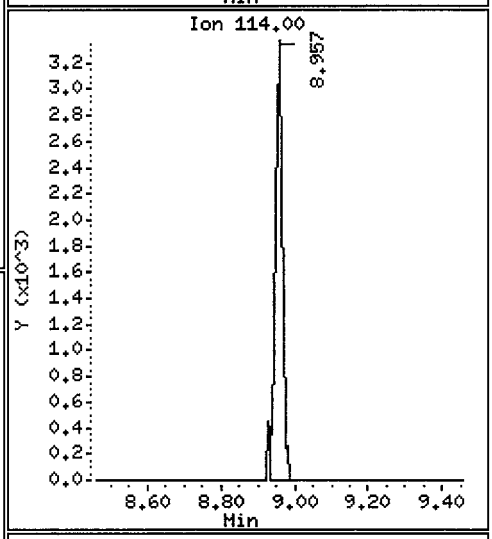


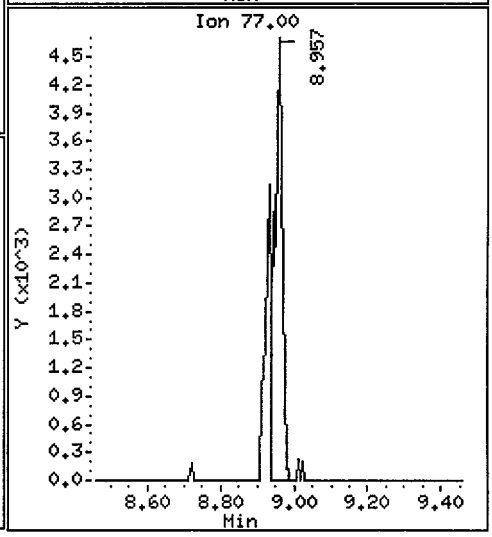












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1ac.d

Date : 05-APR-2006 20:33

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AC,1,0,,

Purge Volume: 25.0

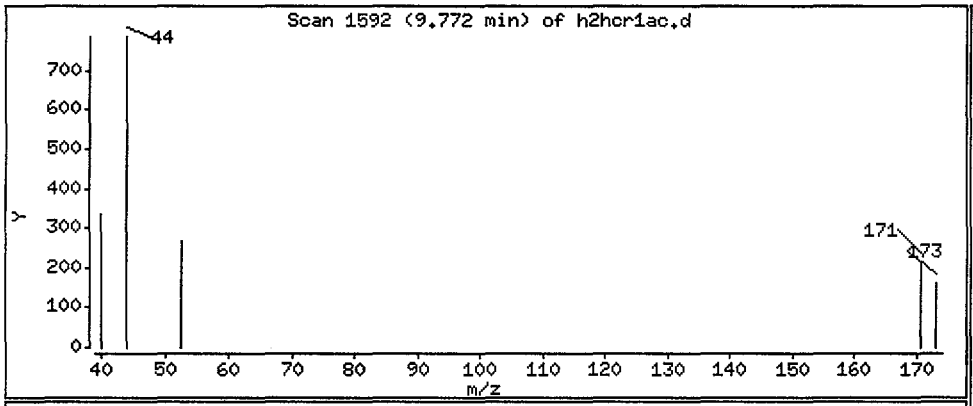
Operator: 063605

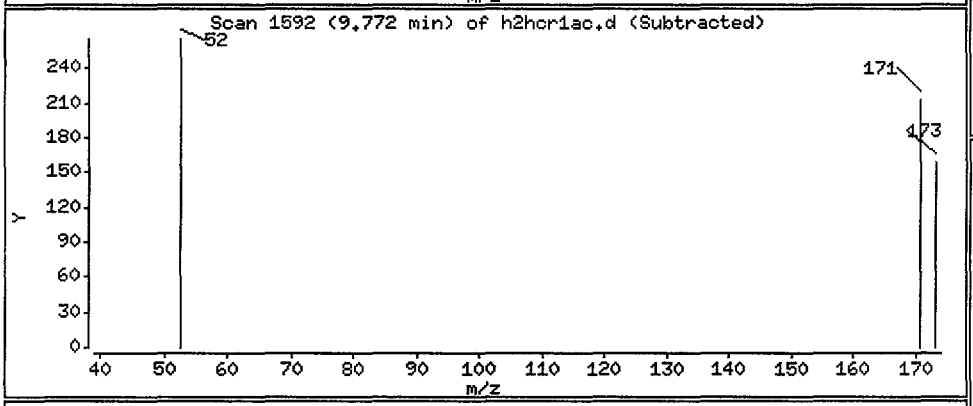
Column phase: J+W 624

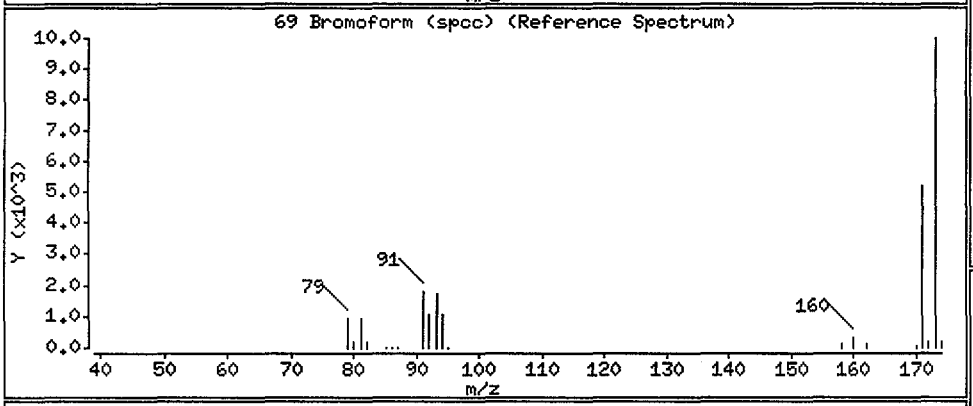
Column diameter: 0.18

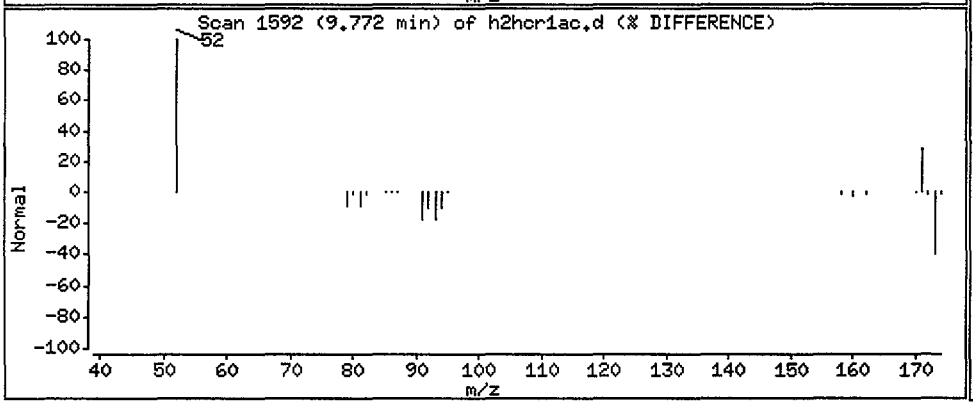
69 Bromoform (spcc)

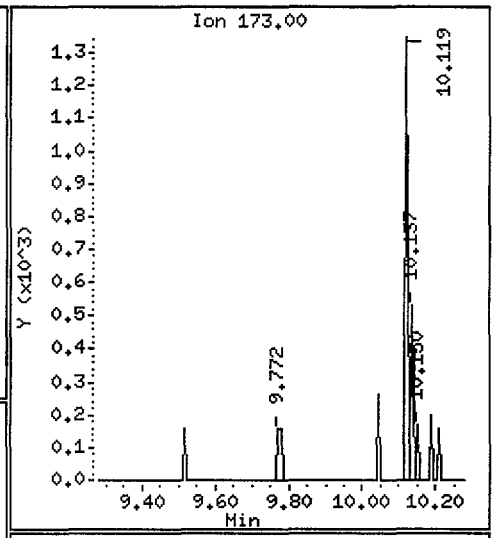
Concentration: 0.84370 ug/L

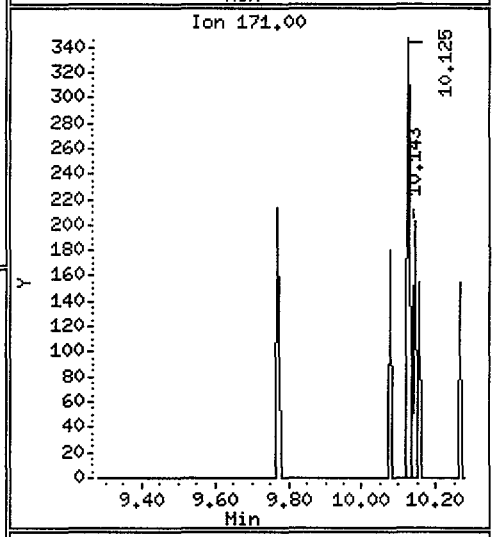


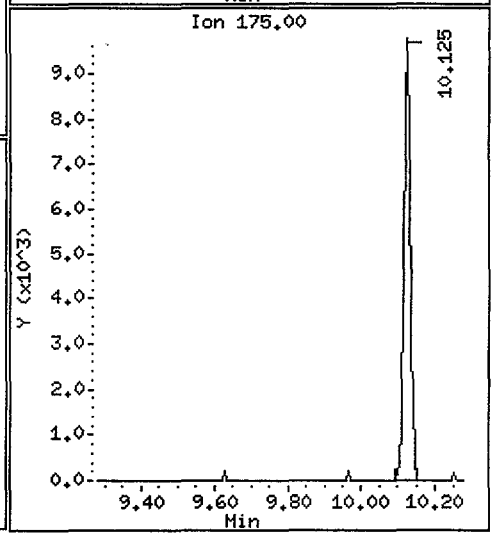












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1ac.d

Date : 05-APR-2006 20:33

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AC,1,0,,

Purge Volume: 25.0

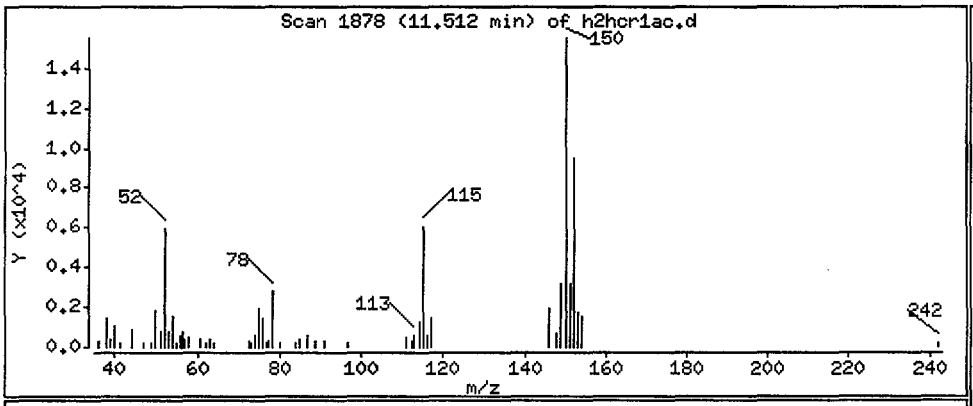
Operator: 063605

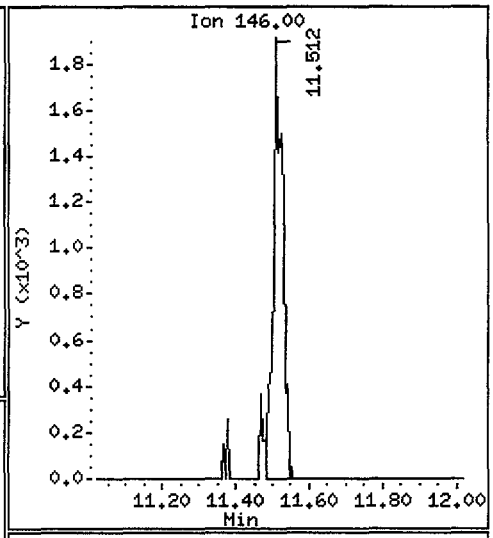
Column phase: J+W 624

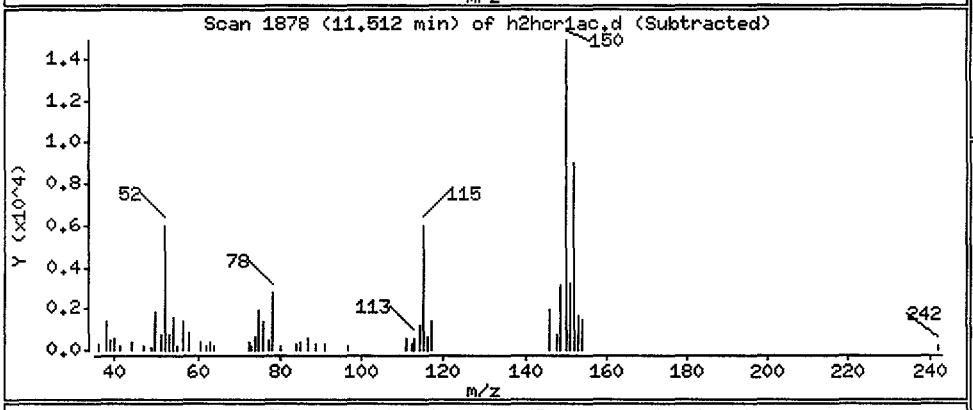
Column diameter: 0.18

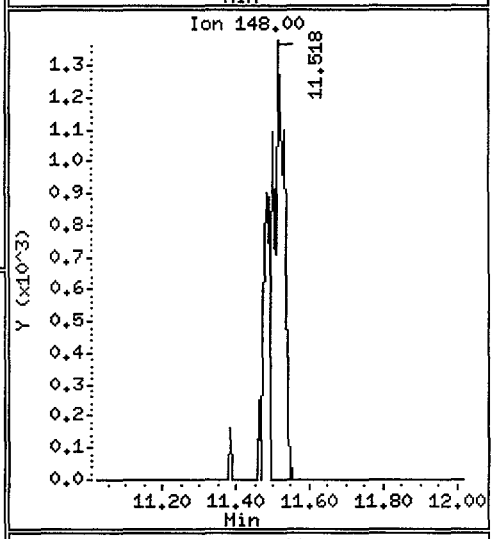
85 1,4-Dichlorobenzene

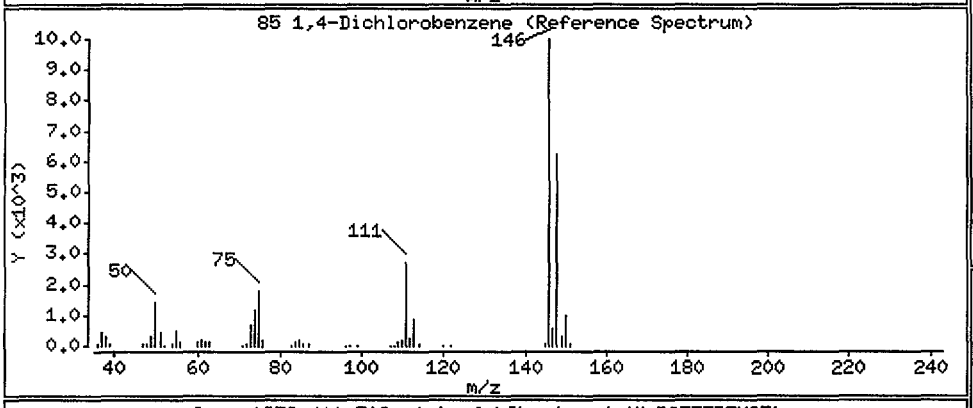
Concentration: 0.10087 ug/L

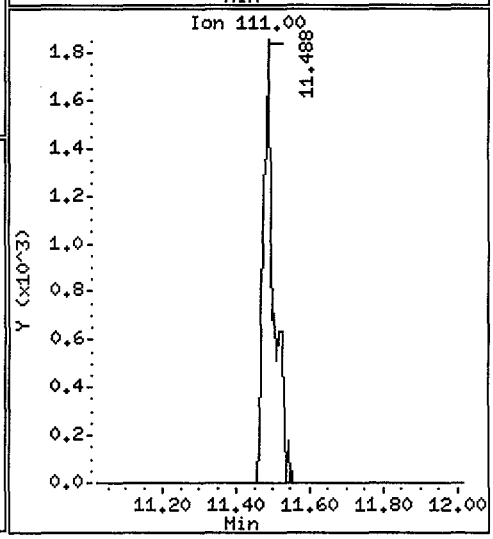


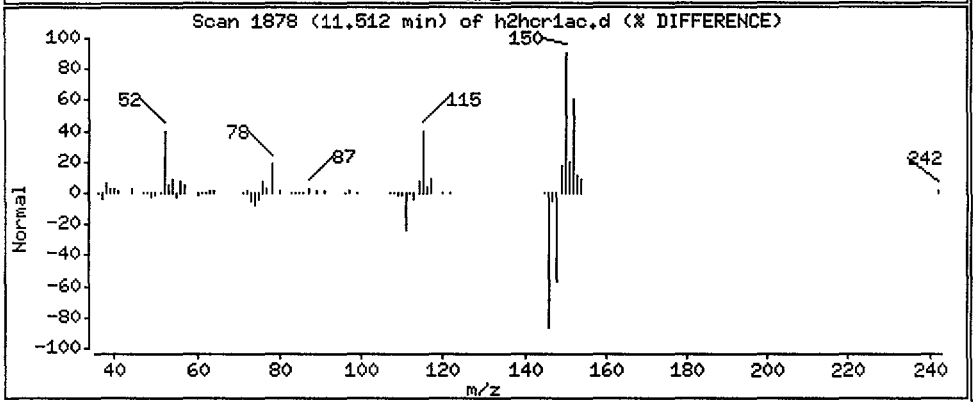












Data File: /var/chem/gcms/mz.i/Z040506.b/h2hcr1ac.d
Report Date: 07-Apr-2006 14:37

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040506.b/h2hcr1ac.d
Lab Smp Id: H2HCR1AC Client Smp ID: G-3097-R3-VOST COND
Inj Date : 05-APR-2006 20:33
Operator : 063605 Inst ID: mz.i
Smp Info : H2HCR1AC,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 06-Apr-2006 17:11 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1 QC Sample: SAMPLE DUPLICATE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.666	991343	10.000

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide				CAS #: 124-38-9			
0.909	977037	9.85569071	9.8557	5	NIST05.l	80	1

Air

MT 4/7/06

Data File: /var/chem/gcms/mz.i/Z040506.b/h2hcr1ac.d

Date : 05-APR-2006 20:33

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AC,1,0,,

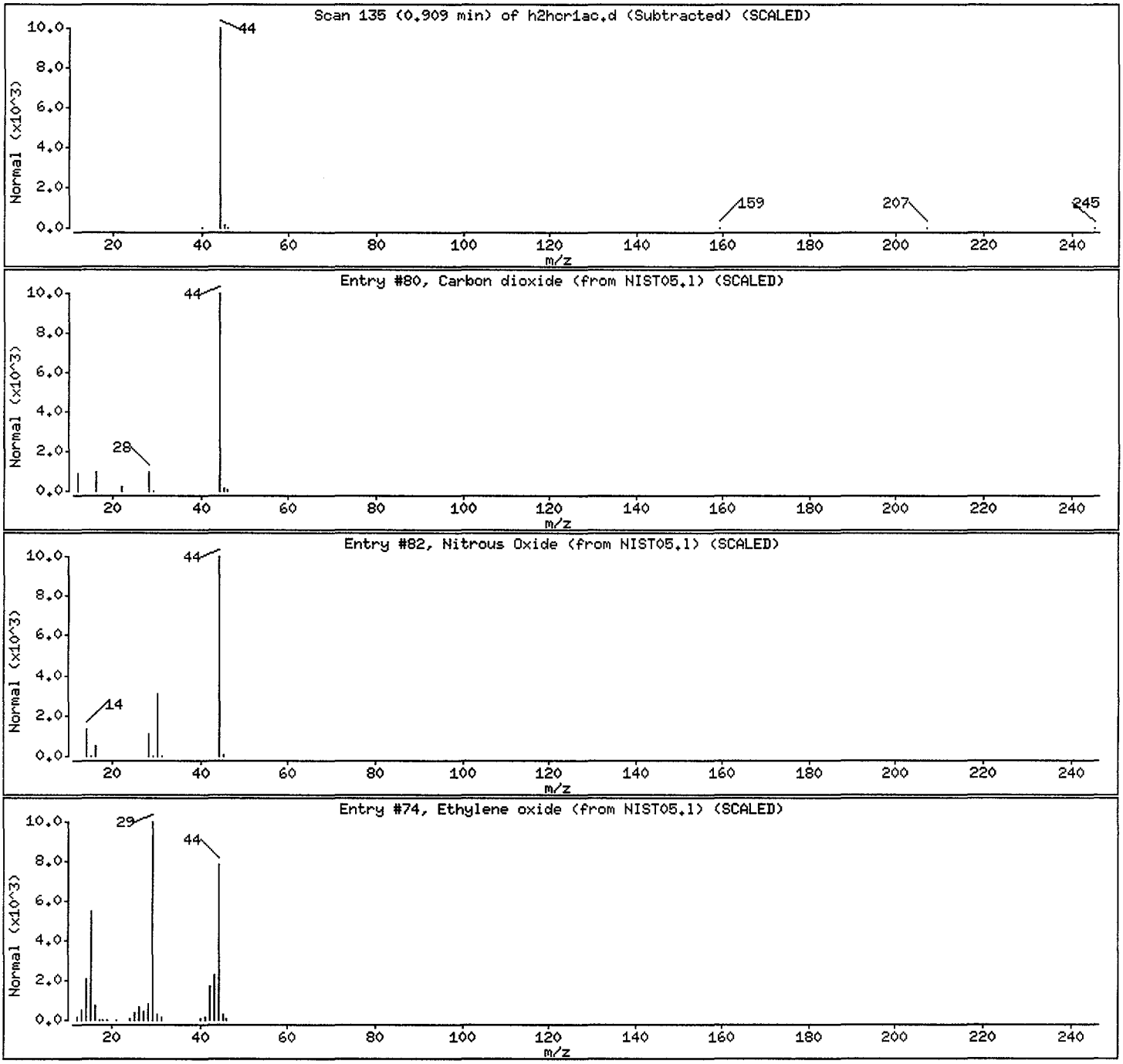
Purge Volume: 25.0

Operator: 063605

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.l	80	5	CO2	44
Nitrous Oxide	10024-97-2	NIST05.l	82	3	N2O	44
Ethylene oxide	75-21-8	NIST05.l	74	2	C2H4O	44



STL Knoxville - ACS

Client Sample ID: G-3098-R3-VOST TENAX FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-032 **Work Order #...:** H2HCV1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.094 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.025 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3098-R3-VOST TENAX FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-032 **Work Order #...:** H2HCV1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	103	(50 - 134)
1,2-Dichloroethane-d4	95	(50 - 134)
Toluene-d8	91	(57 - 127)
Bromofluorobenzene	83	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3098-R3-VOST TENAX FB

GC/MS Volatiles

Lot-Sample #: H6D030169-032 **Work Order #:** H2HCV1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /chem/gcms/mz.i/Z040706.b/h2hcv1aa.d
Report Date: 07-Apr-2006 13:03

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040706.b/h2hcv1aa.d
Lab Smp Id: H2HCV1AA Client Smp ID: G-3098-R3-VOST TENA
Inj Date : 07-APR-2006 12:45
Operator : 22980 Inst ID: mz.i
Smp Info : H2HCV1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 09:40 gosss Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug)
* 1 Fluorobenzene	96	5.675	5.676	(1.000)	837980	10.0000	
* 2 Chlorobenzene-d5	119	8.935	8.937	(1.000)	183713	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.490	11.492	(1.000)	232280	10.0000	
$ 4 Dibromofluoromethane	113	4.829	4.831	(0.851)	137744	10.2584	0.25646
$ 5 1,2-Dichloroethane-d4	65	5.237	5.238	(0.923)	109855	9.46104	0.23652
$ 6 Toluene-d8	98	7.463	7.465	(0.835)	734869	9.10389	0.22760
$ 7 4-Bromofluorobenzene	95	10.128	10.129	(0.881)	193326	8.25281	0.20632
15 Bromomethane	94	1.404	1.418	(0.247)	1389	0.98967	0.024742
22 Acetone	43	2.128	2.123	(0.375)	2629	3.76894	0.094223
23 *Iodomethane	142	2.195	2.184	(0.387)	451	0.54287	0.013572
27 Methylene Chloride	84	2.505	2.513	(0.441)	2295	0.16379	0.0040948
34 *Vinyl Acetate	86	3.126	3.407	(0.551)	172	0.15453	~~0.0038632~~
37 2-Butanone	43	4.190	4.186	(0.738)	1312	0.41326	~~0.010331~~
39 *THF	42	4.580	4.532	(0.807)	915	0.46060	0.011515
45 1,2-Dichloroethane	62	5.675	5.335	(1.000)	13507	0.77192	~~0.019298~~
53 4-Methyl-2-pentanone	43	7.469	7.386	(1.316)	5842	0.79834	~~0.019958~~

4.14.06

Data File: /chem/gcms/mz.i/Z040706.b/h2hcv1aa.d
Report Date: 07-Apr-2006 13:03

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
54 Toluene (ccc)	91	7.530	7.532	(0.843)	5349	0.05117	0.0012792
55 trans-1,3-Dichloropropene	75	7.469	7.793	(0.836)	93	0.63088	~~0.015772~~
69 Bromoform (spcc)	173	10.109	9.782	(1.131)	228	0.87920	~~0.021980~~

JW 4.14.06

Data File: /chem/gcms/mz.i/Z040706.b/h2hcv1aa.d
Report Date: 07-Apr-2006 13:03

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2hcv1aa.d
Lab Smp Id: H2HCV1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 07:35
Client Smp ID: G-3098-R3-VOST TENA
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	952581	476290	1905162	837980	-12.03
2 Chlorobenzene-d5	164101	82050	328202	183713	11.95
3 1,4 Dichlorobenze	204390	102195	408780	232280	13.65

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.68	5.18	6.18	5.67	-0.03
2 Chlorobenzene-d5	8.94	8.44	9.44	8.94	-0.02
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	-0.01

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

Data File: /chem/gcms/mz.i/Z040706.b/h2hcv1aa.d
Report Date: 07-Apr-2006 13:03

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030169
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: H2HCV1AA
Client Smp ID: G-3098-R3-VOST TENA
Level: LOW
Operator: 22980
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allcmpds.spk
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

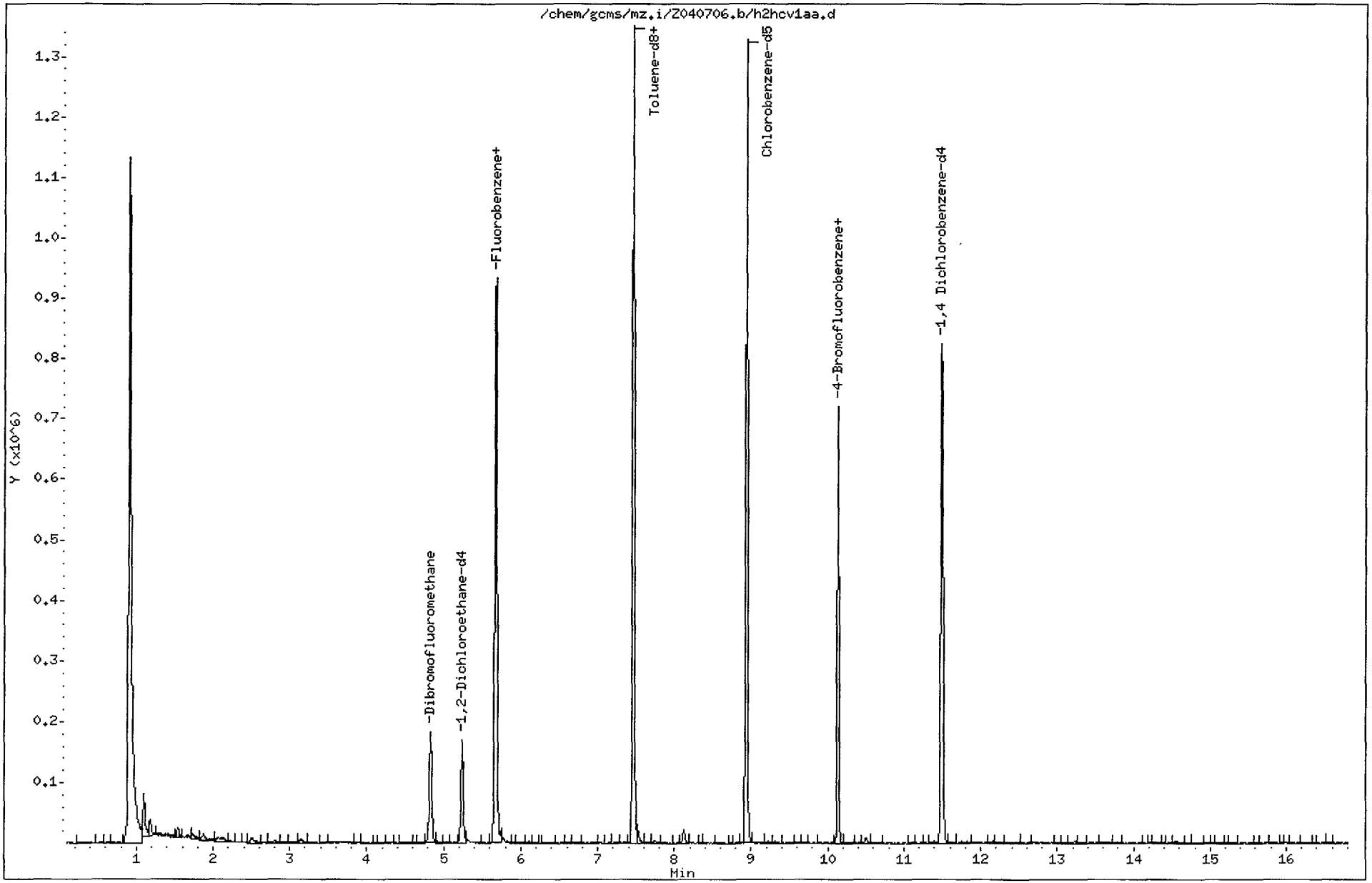
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.25646	102.58	50-150
$ 5 1,2-Dichloroethane	0.25000	0.23652	94.61	50-150
$ 6 Toluene-d8	0.25000	0.22760	91.04	50-150
$ 7 4-Bromofluorobenze	0.25000	0.20632	82.53	50-150

Data File: /chem/gcms/mz.i/Z040706.b/h2hcv1aa.d
Date : 07-APR-2006 12:45
Client ID: G-3098-R3-VOST TENA
Sample Info: H2HCV1AA,1,0,,

Instrument: mz.i

Operator: 22980
Column diameter: 0.18

Column phase: J+W 624



Data File: /chem/gcms/mz.i/Z040706.b/h2hcv1aa.d

Date : 07-APR-2006 12:45

Client ID: G-3098-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCV1AA,1,0,,

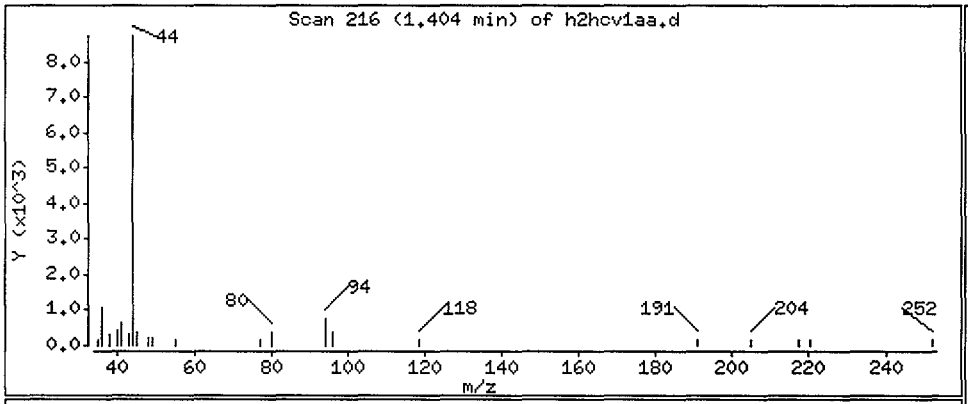
Operator: 22980

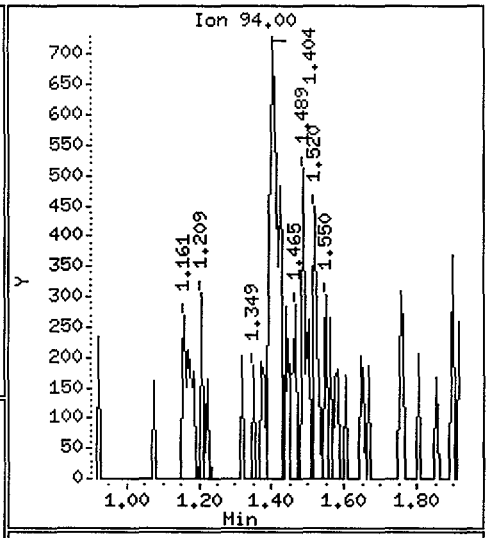
Column phase: J+W 624

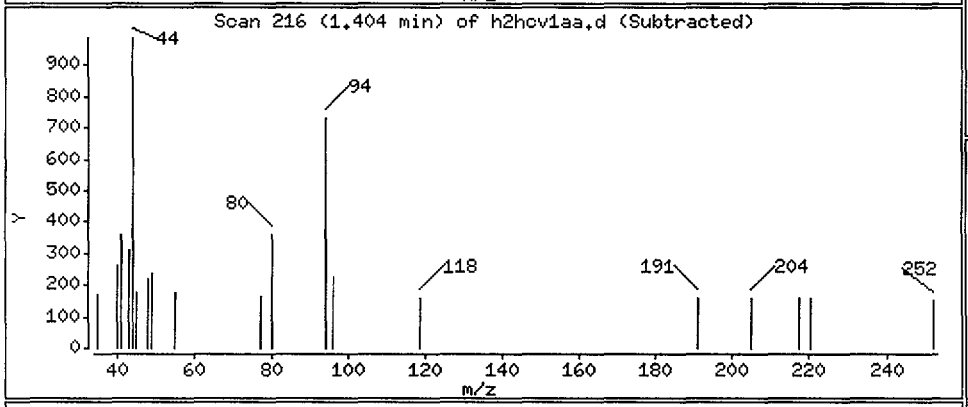
Column diameter: 0.18

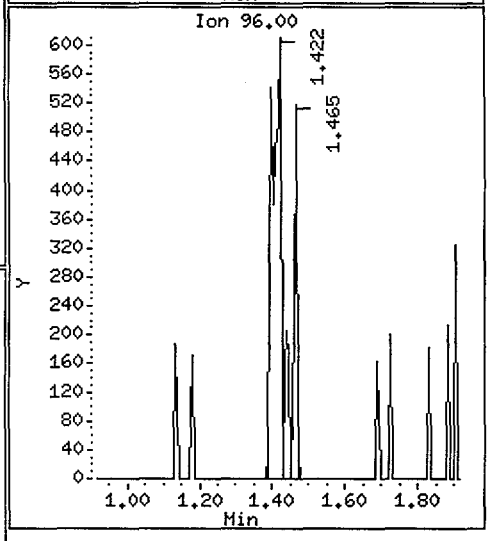
15 Bromomethane

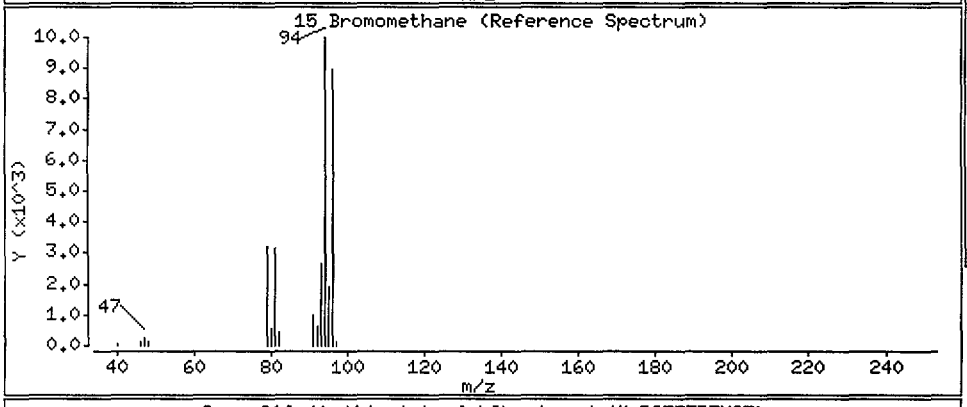
Concentration: 0.024742 ug

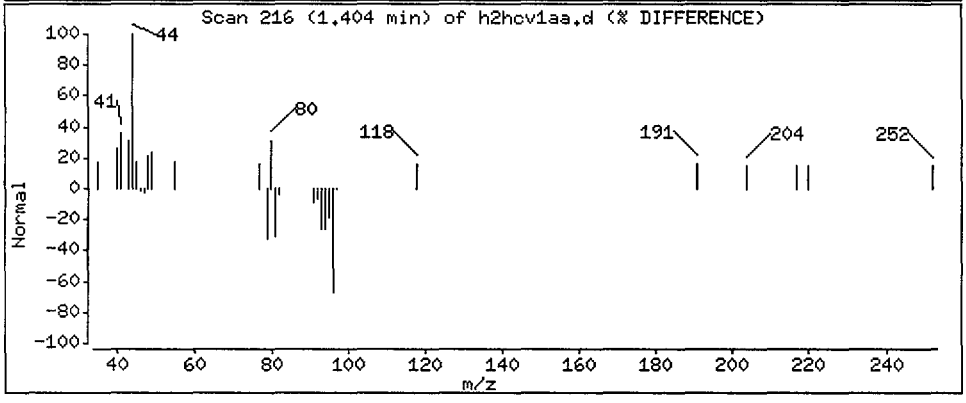












Data File: /chem/gcms/mz.i/Z040706.b/h2hcv1aa.d

Date : 07-APR-2006 12:45

Client ID: G-3098-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCV1AA,1,0,,

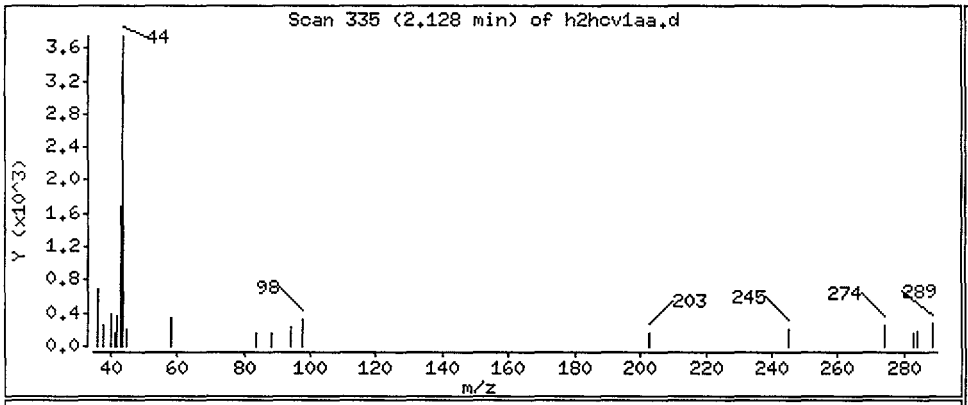
Operator: 22980

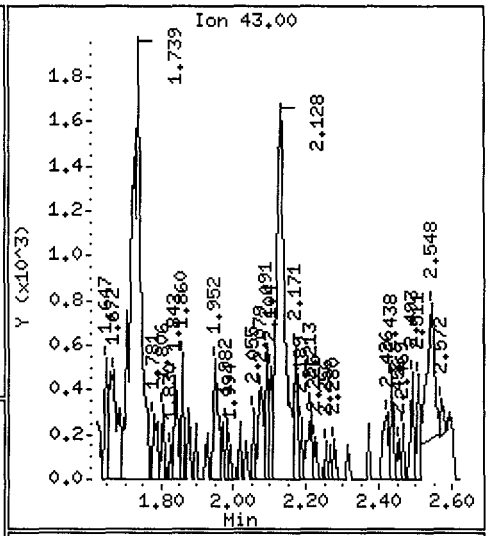
Column phase: J+W 624

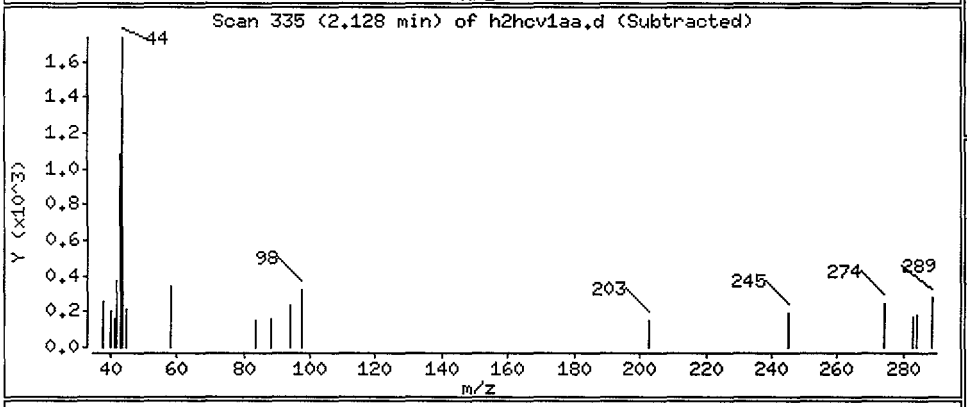
Column diameter: 0.18

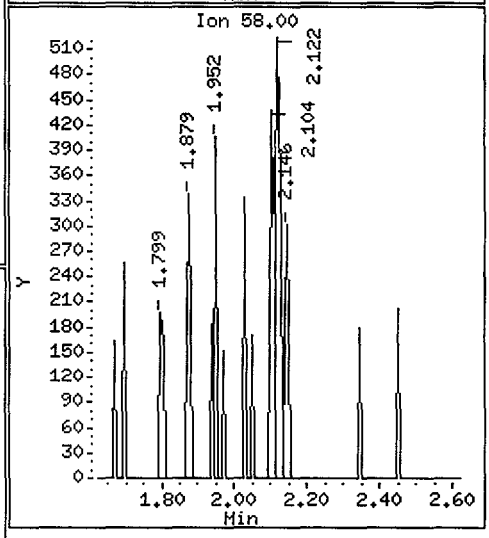
22 Acetone

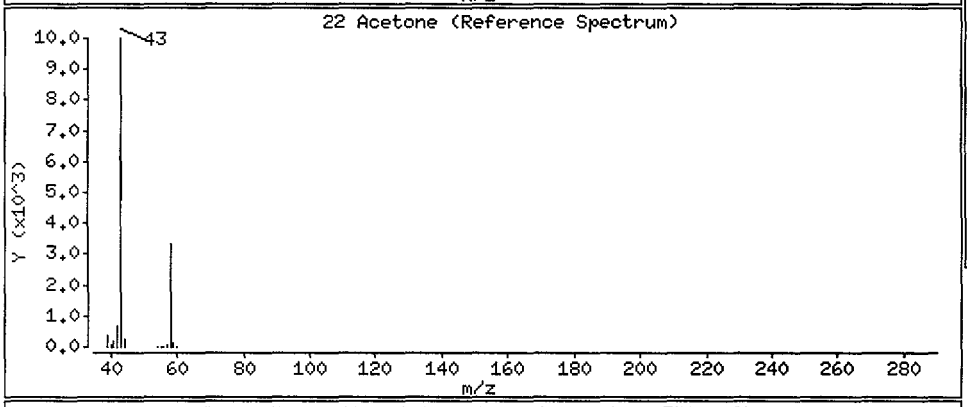
Concentration: 0.094223 ug

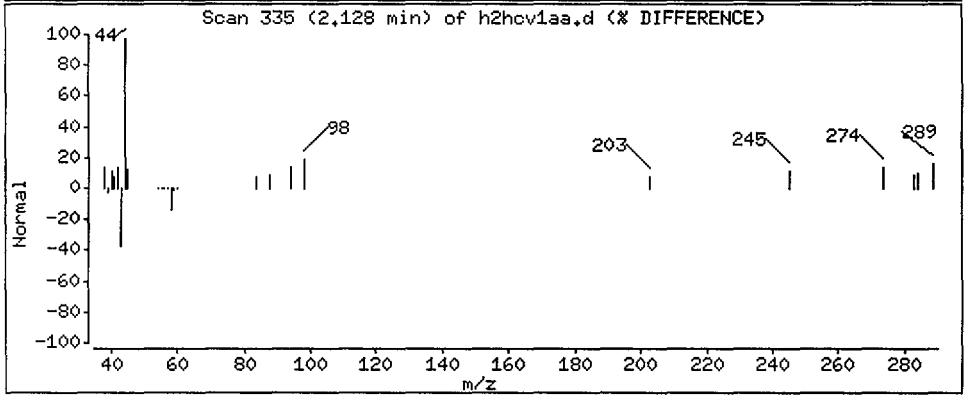












Data File: /chem/gcms/mz.i/Z040706.b/h2hcv1aa.d

Date : 07-APR-2006 12:45

Client ID: G-3098-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCV1AA,1,0,,

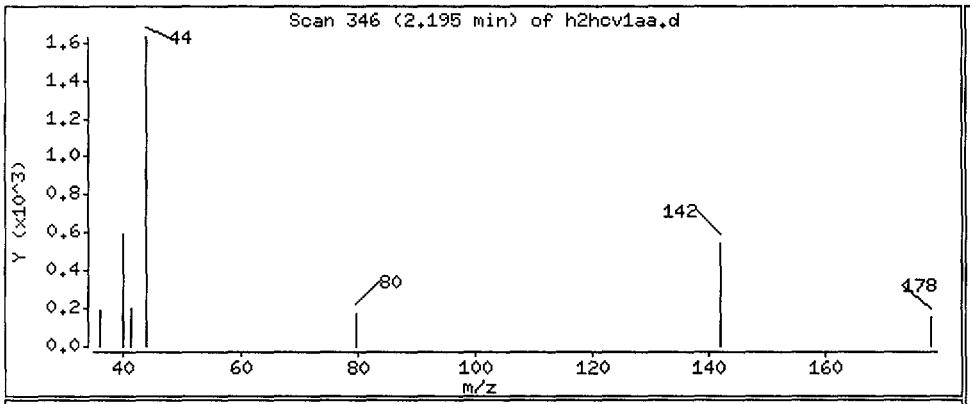
Operator: 22980

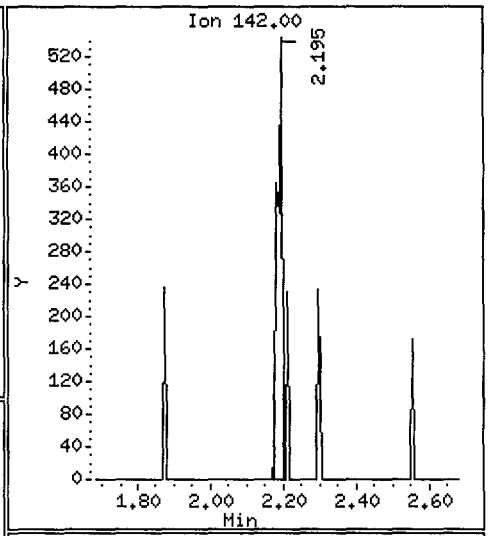
Column phase: J+W 624

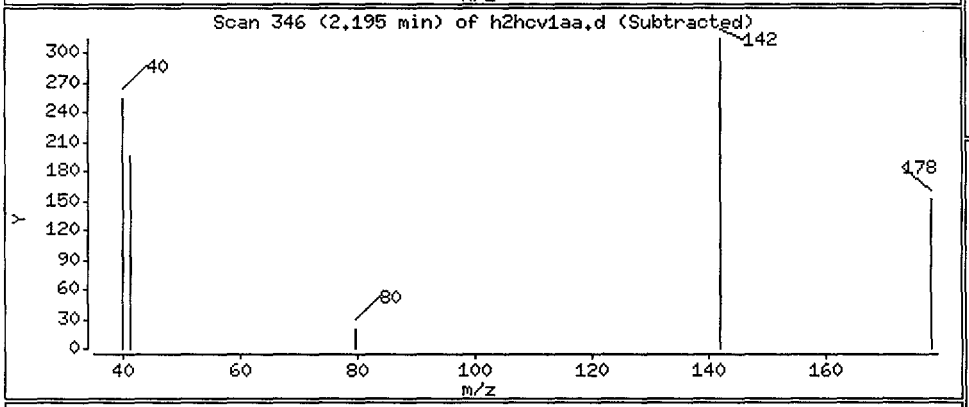
Column diameter: 0.18

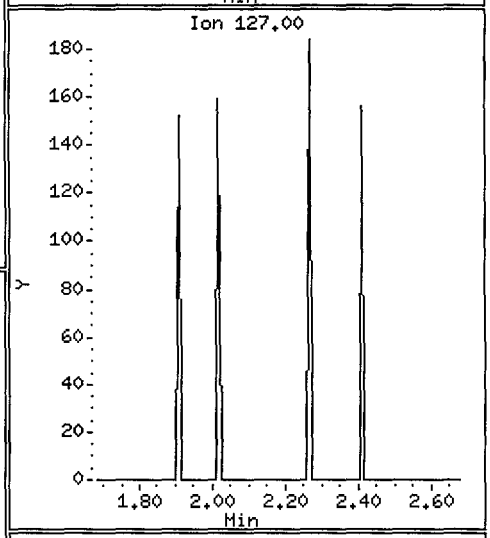
23 *Iodomethane

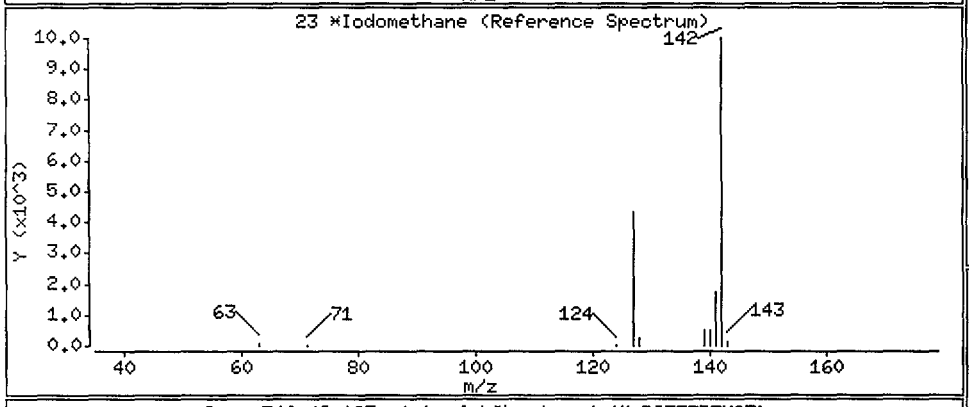
Concentration: 0.013572 ug

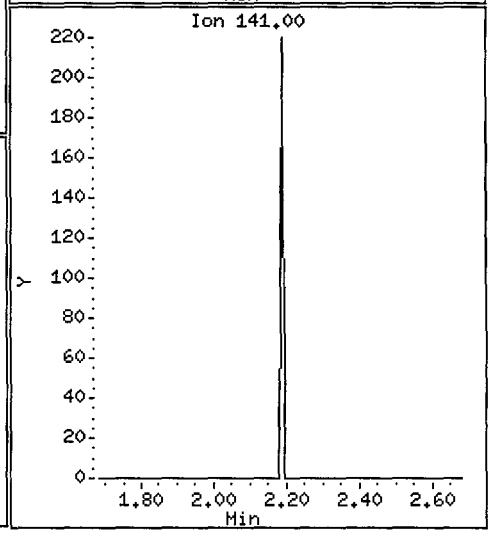


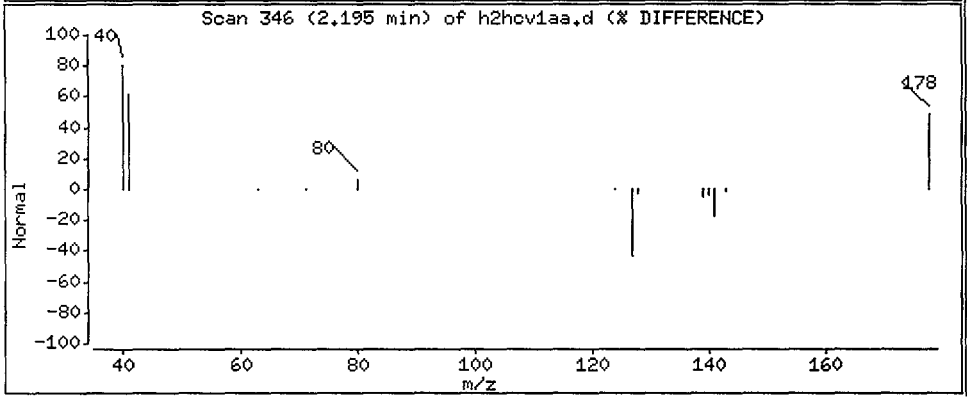












Data File: /chem/gcms/mz.i/Z040706.b/h2hcv1aa.d

Date : 07-APR-2006 12:45

Client ID: G-3098-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCV1AA,1,0,,

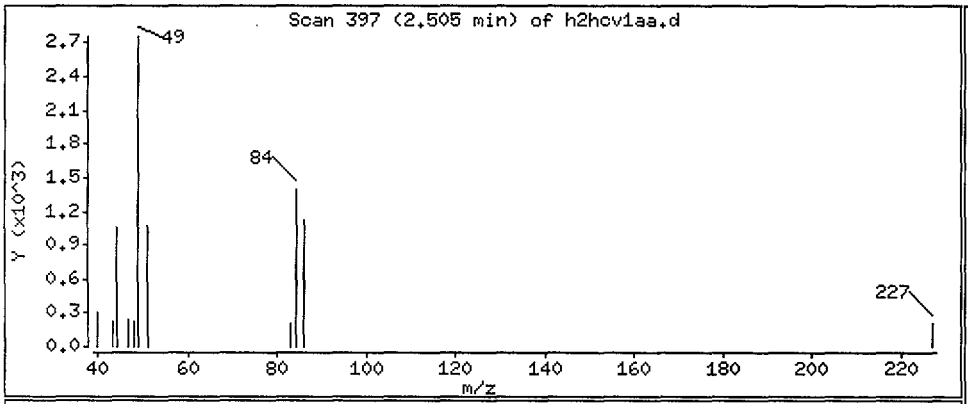
Operator: 22980

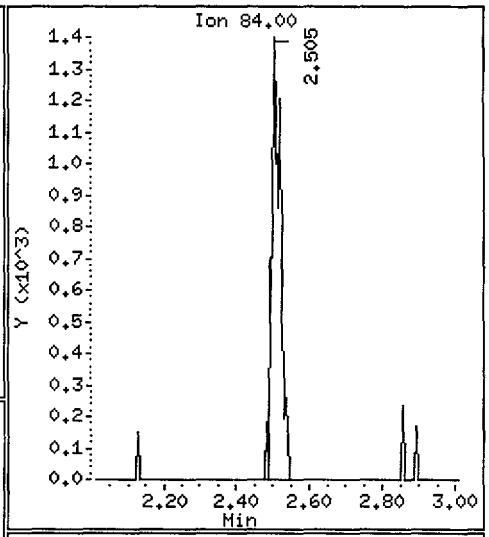
Column phase: J+W 624

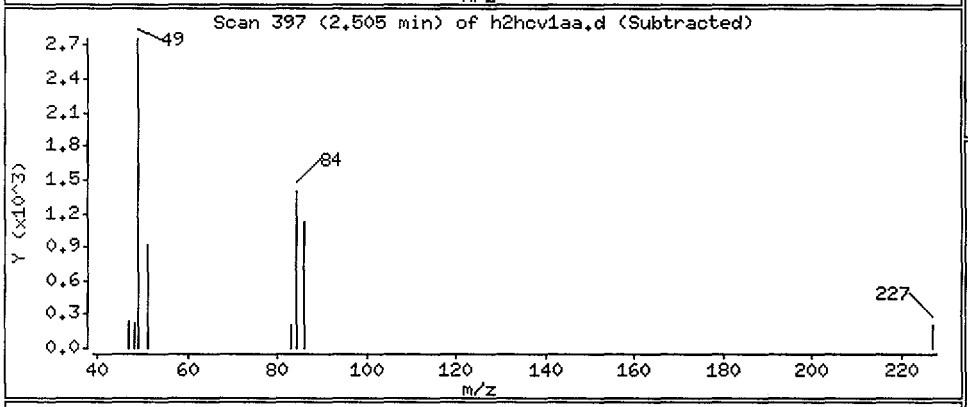
Column diameter: 0.18

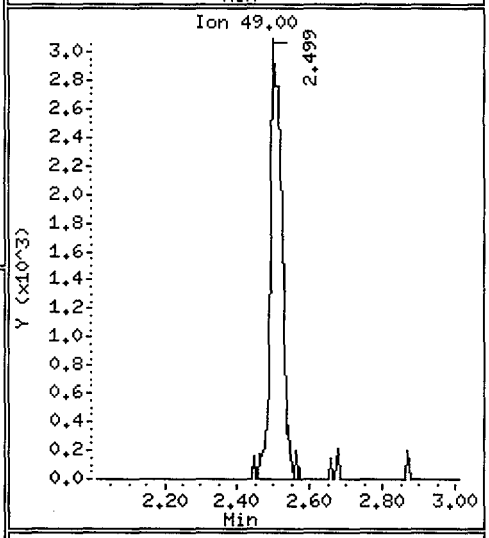
27 Methylene Chloride

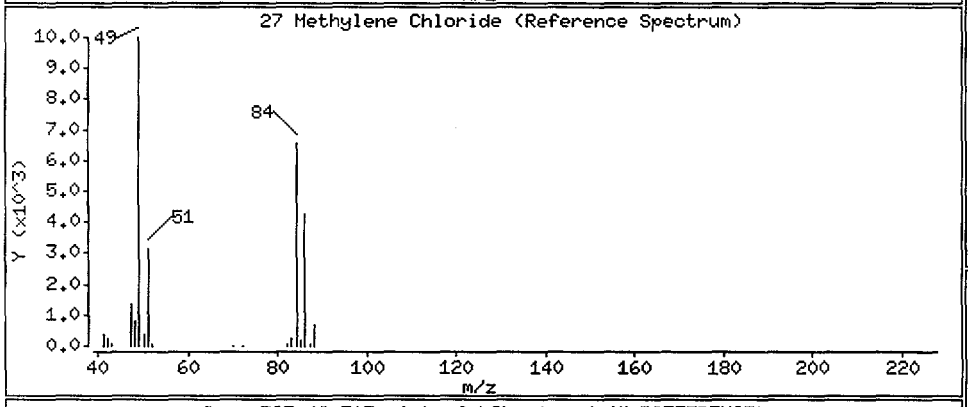
Concentration: 0.0040948 ug

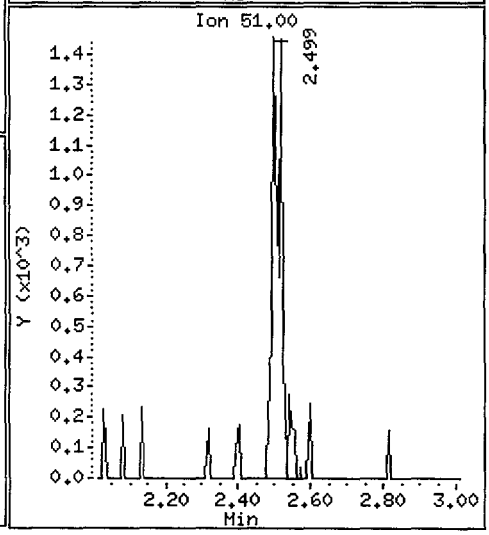


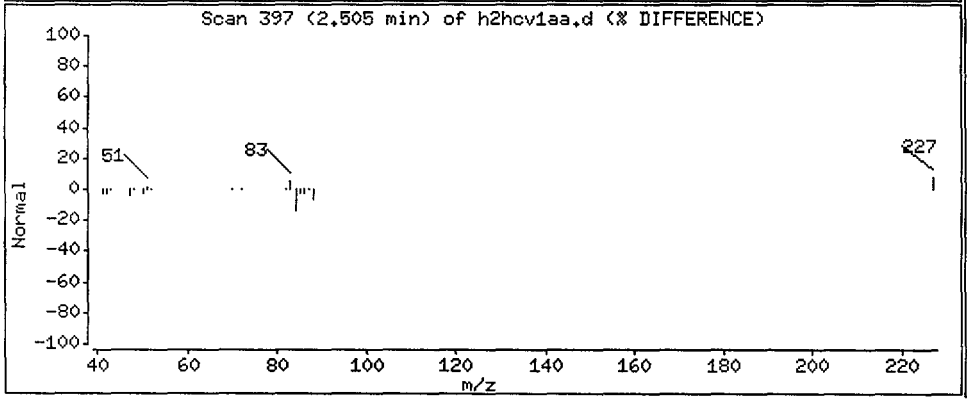












Data File: /chem/gcms/mz.i/Z040706.b/h2hcv1aa.d

Date : 07-APR-2006 12:45

Client ID: G-3098-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCV1AA,1,0,,

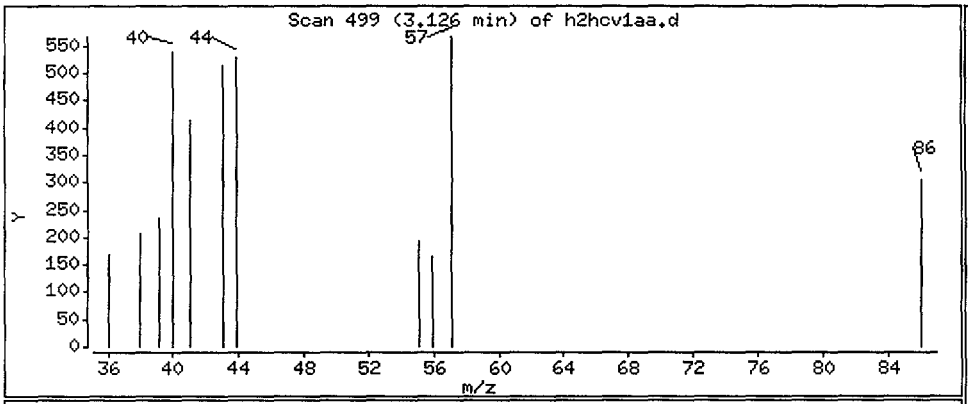
Operator: 22980

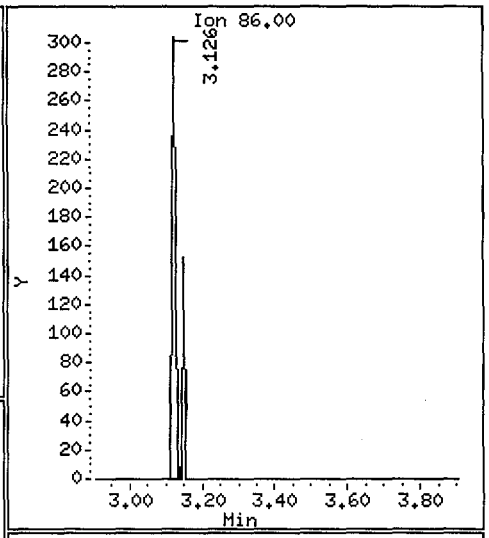
Column phase: J+W 624

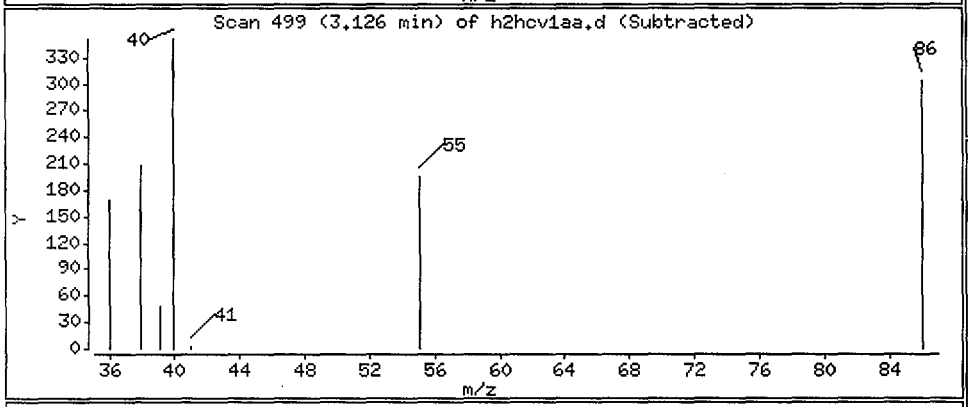
Column diameter: 0.18

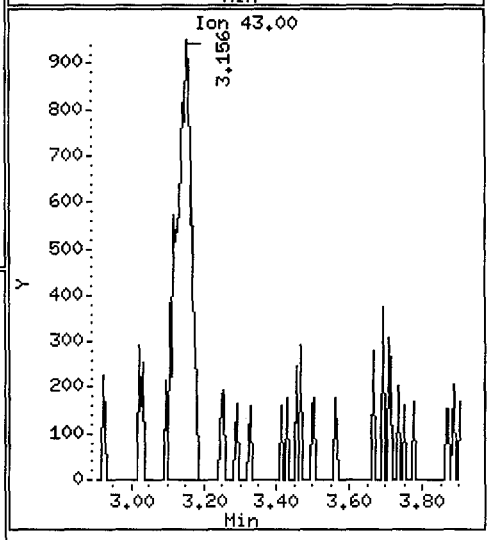
34 *Vinyl Acetate

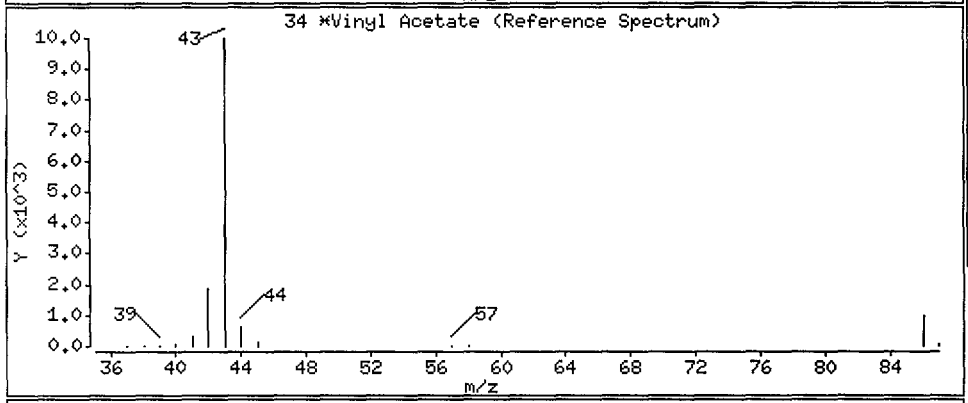
Concentration: 0.0038632 ug

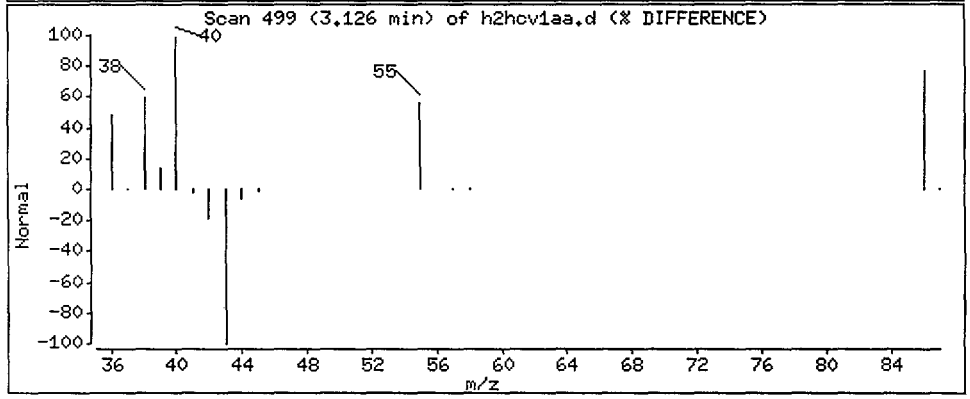












Data File: /chem/gcms/mz.i/Z040706.b/h2hcv1aa.d

Date : 07-APR-2006 12:45

Client ID: G-3098-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCV1AA,1,0,,

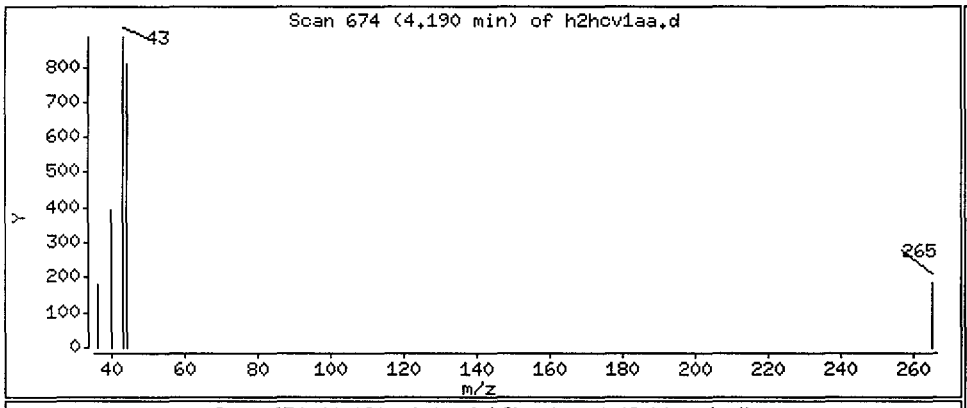
Operator: 22980

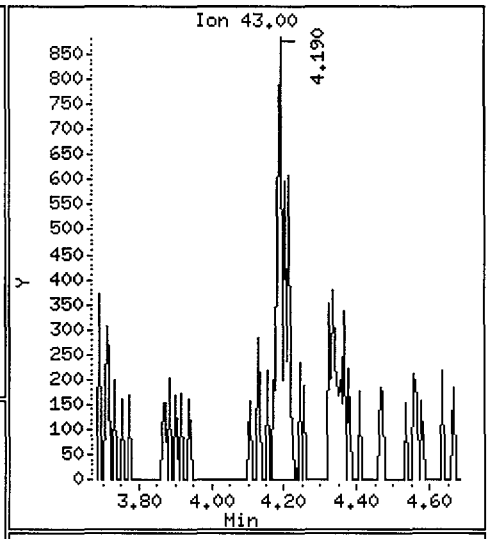
Column phase: J+W 624

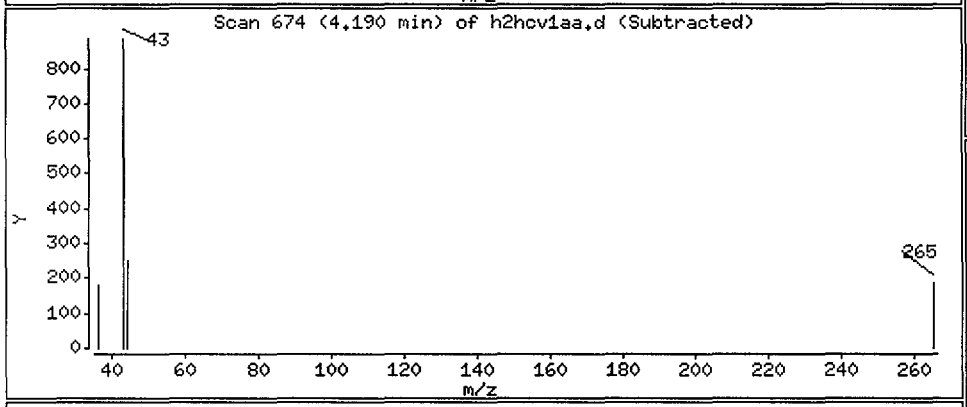
Column diameter: 0.18

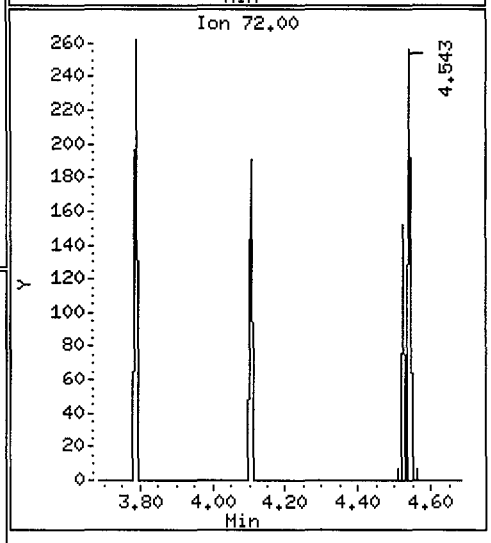
37 2-Butanone

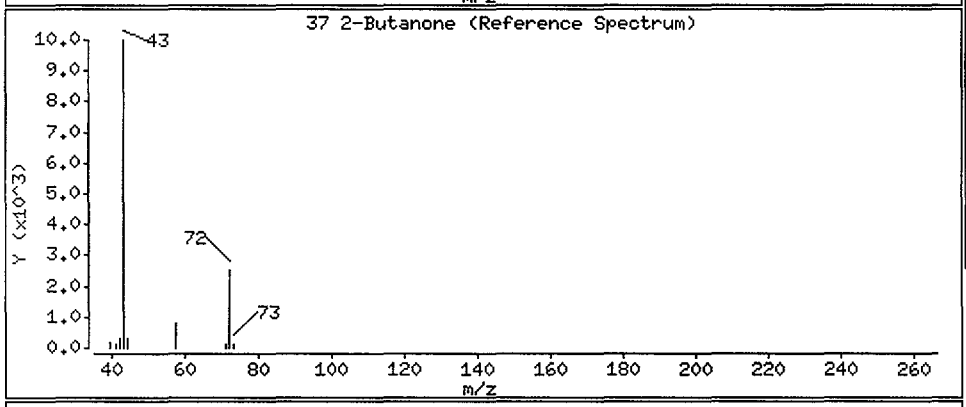
Concentration: 0.010331 ug

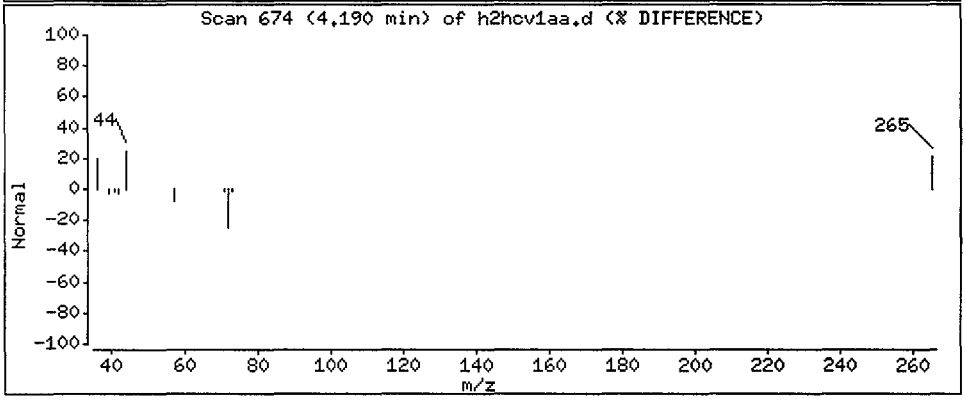












Data File: /chem/gcms/mz.i/Z040706.b/h2hcv1aa.d

Date : 07-APR-2006 12:45

Client ID: G-3098-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCV1AA,1,0,,

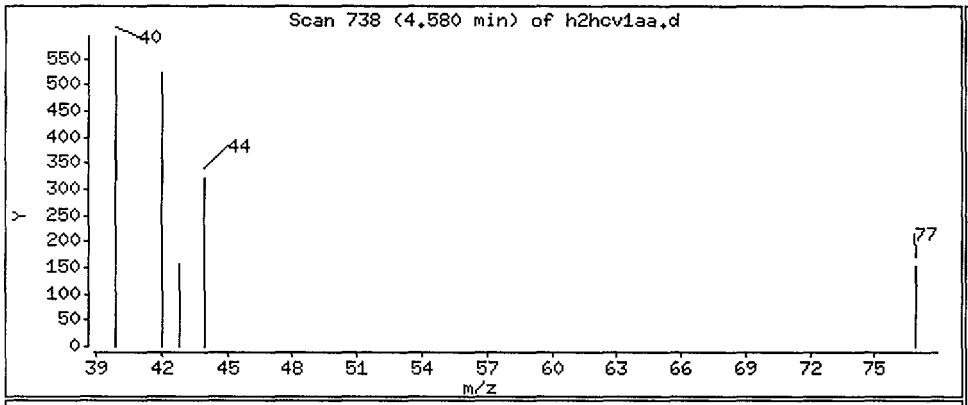
Operator: 22980

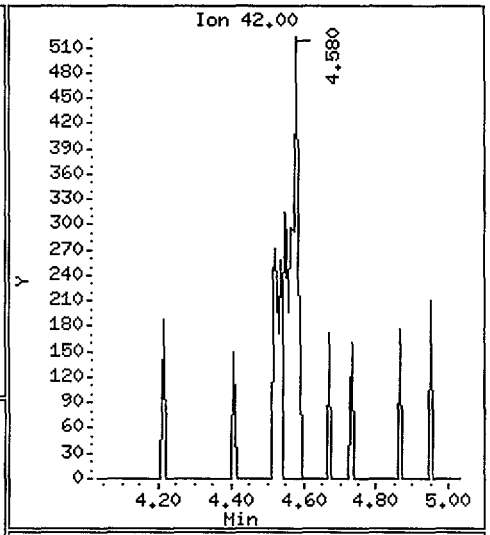
Column phase: J+W 624

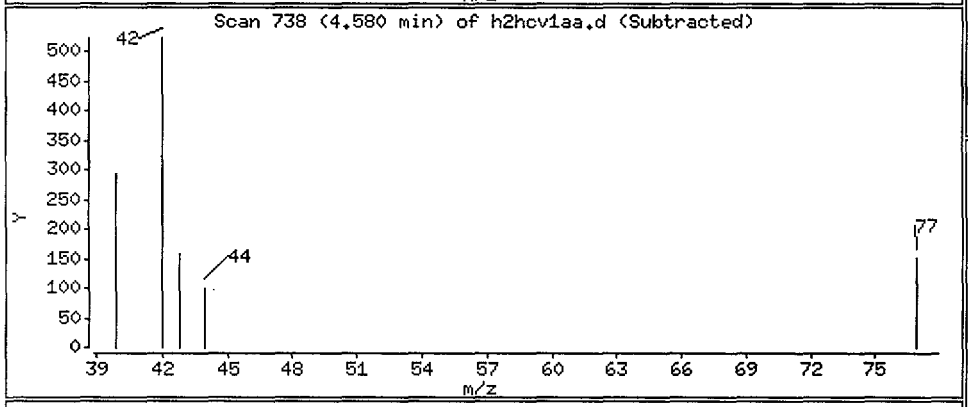
Column diameter: 0.18

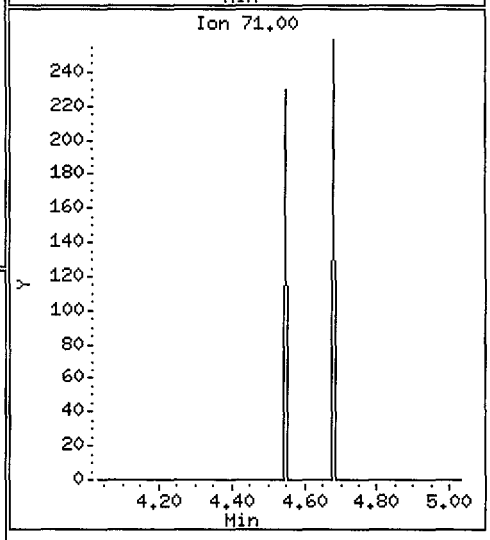
39 *THF

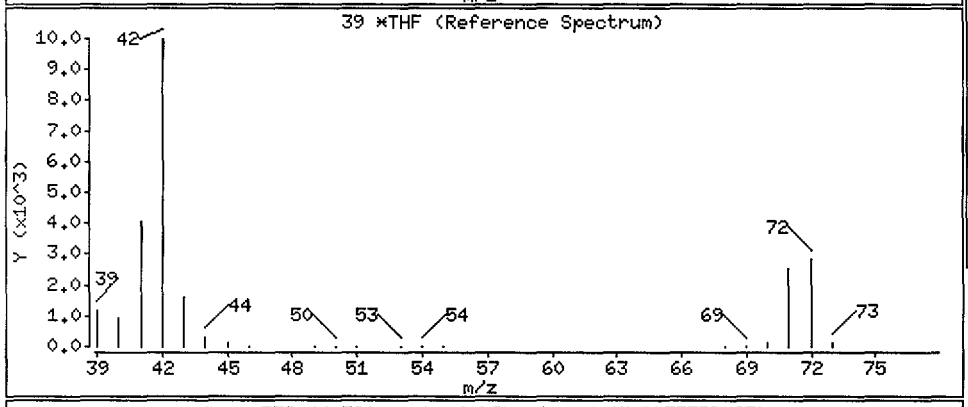
Concentration: 0.011515 ug

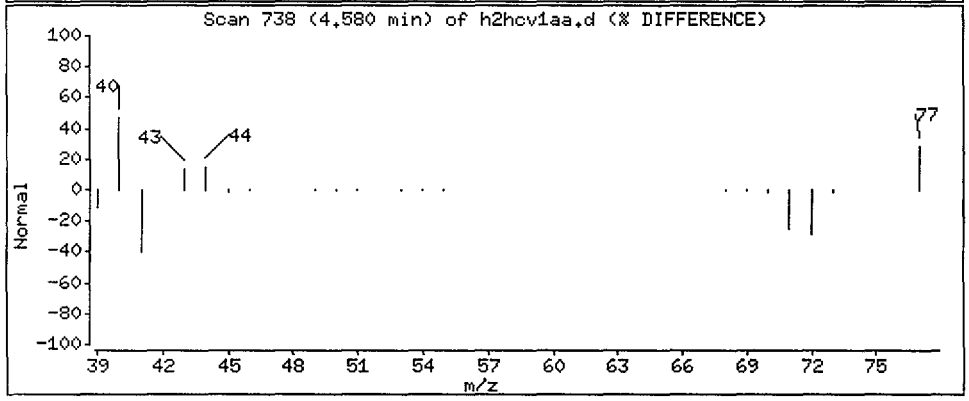












Data File: /chem/gcms/mz.i/Z040706.b/h2hcv1aa.d

Date : 07-APR-2006 12:45

Client ID: G-3098-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCV1AA,1,0,,

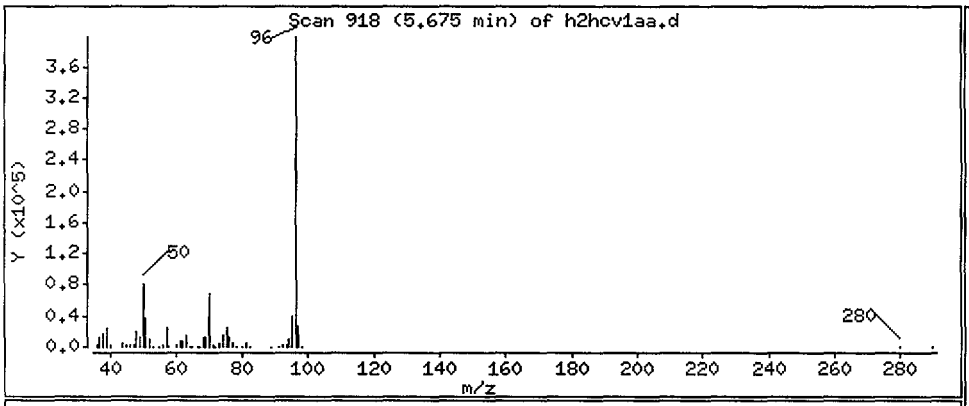
Operator: 22980

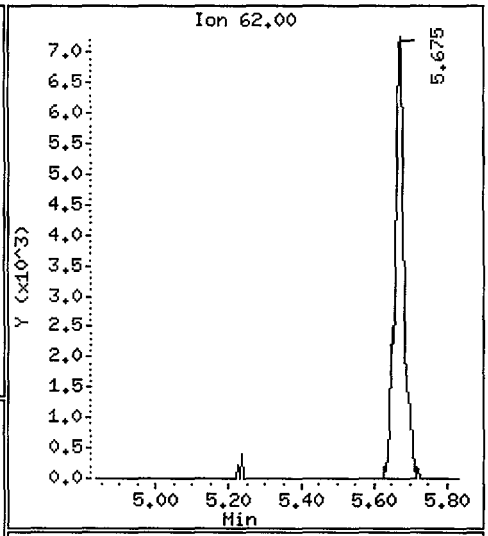
Column phase: J+W 624

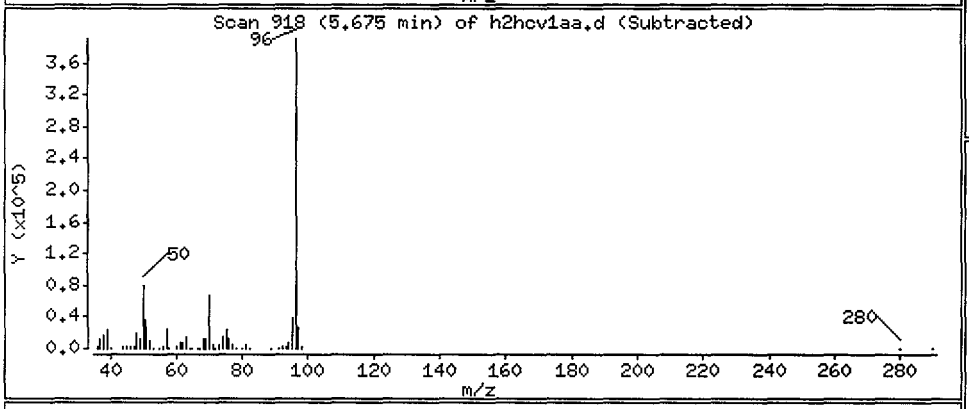
Column diameter: 0.18

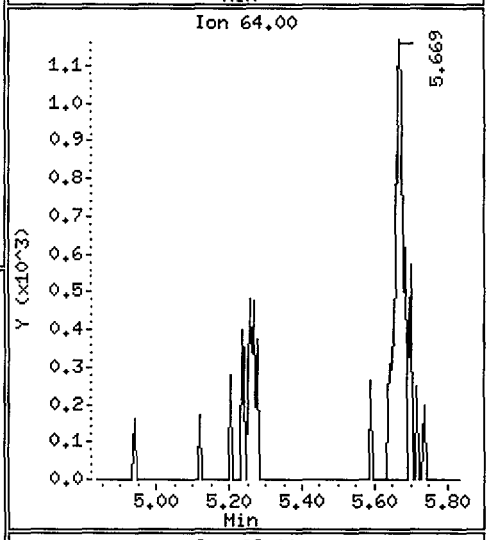
45 1,2-Dichloroethane

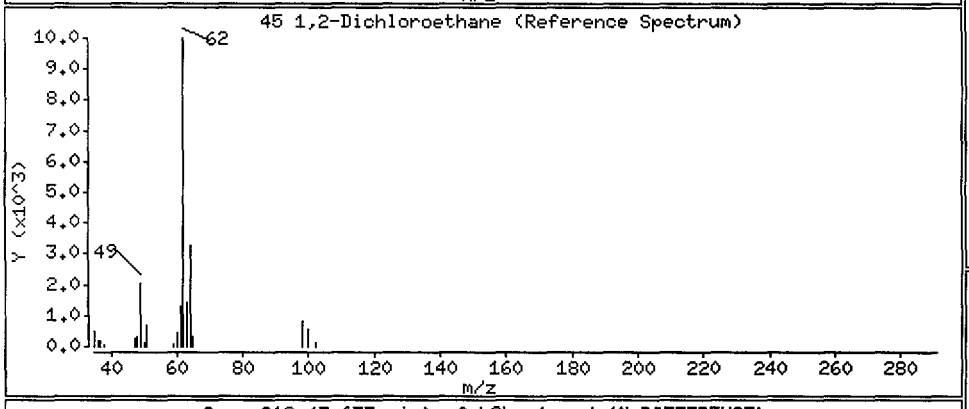
Concentration: 0.019298 ug

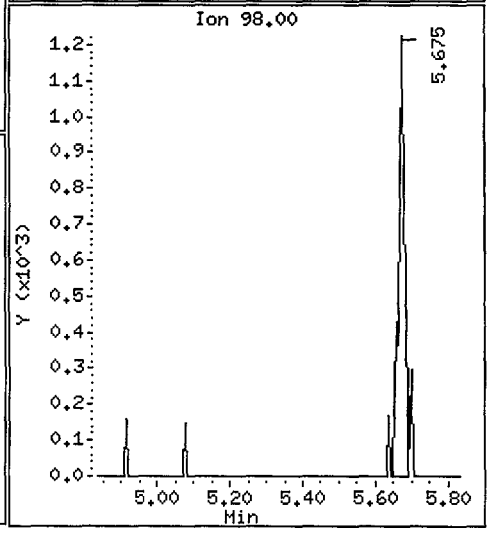


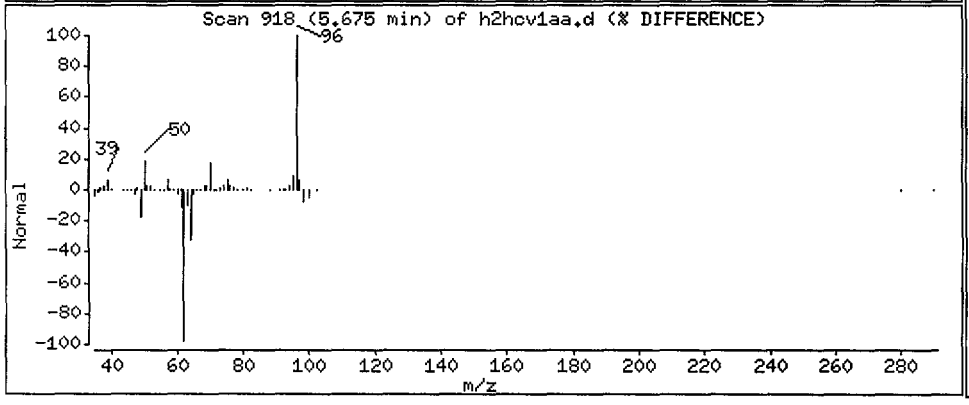












Data File: /chem/gcms/mz.i/Z040706.b/h2hcv1aa.d

Date : 07-APR-2006 12:45

Client ID: G-3098-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCV1AA,1,0,,

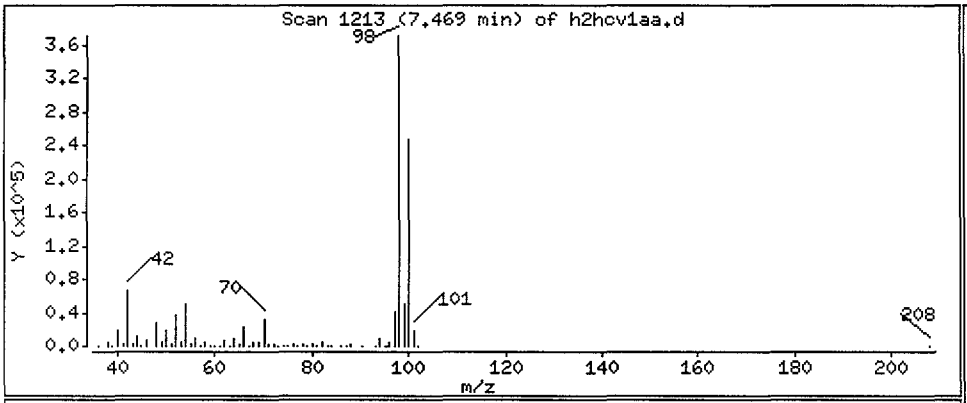
Operator: 22980

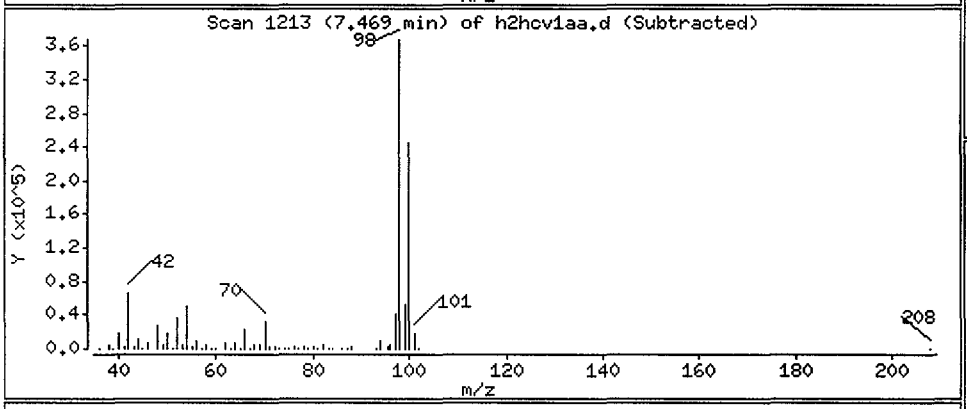
Column phase: J+W 624

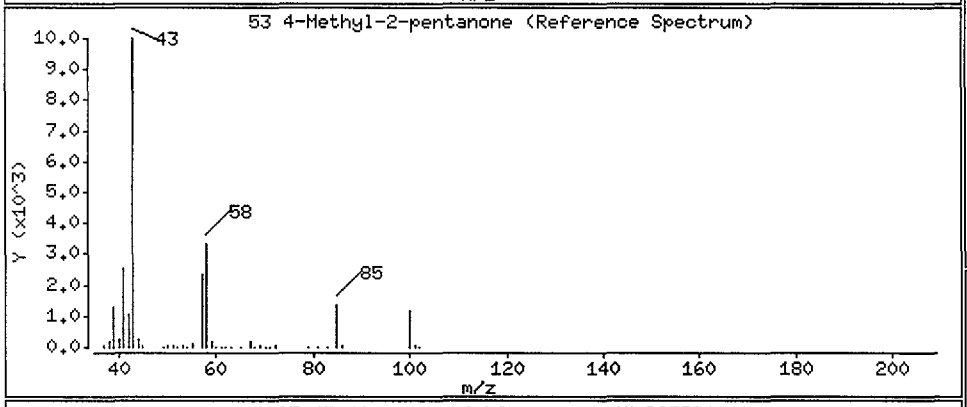
Column diameter: 0.18

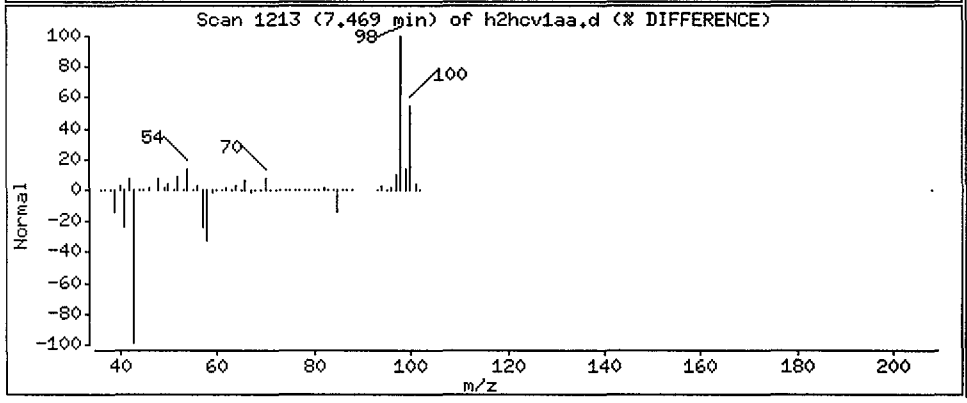
53 4-Methyl-2-pentanone

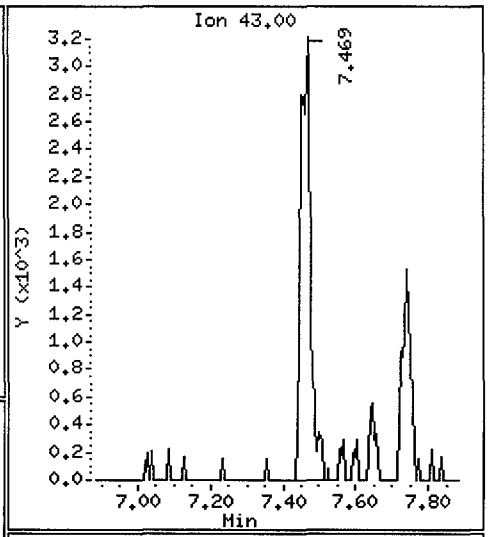
Concentration: 0.019958 ug

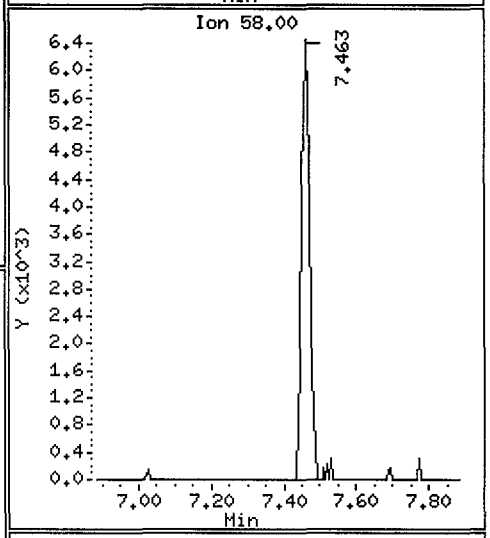


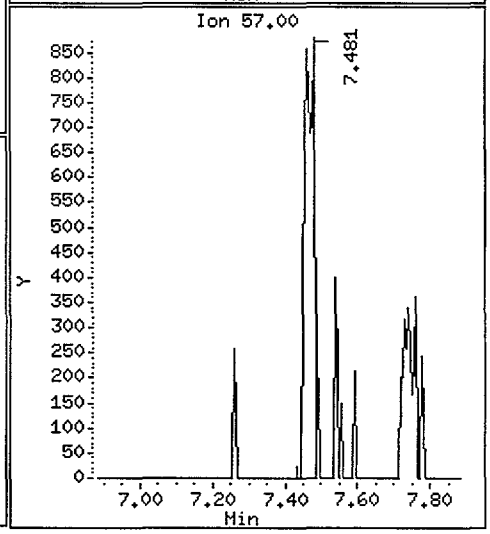












Data File: /chem/gcms/mz.i/Z040706.b/h2hcv1aa.d

Date : 07-APR-2006 12:45

Client ID: G-3098-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCV1AA,1,0,,

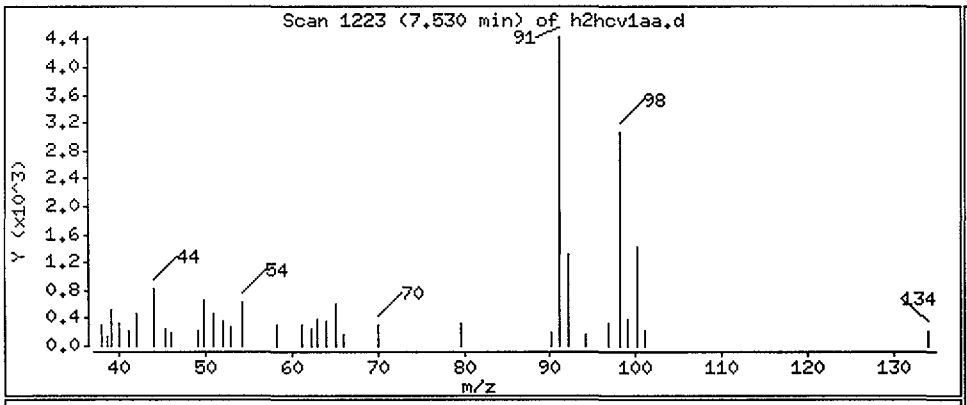
Operator: 22980

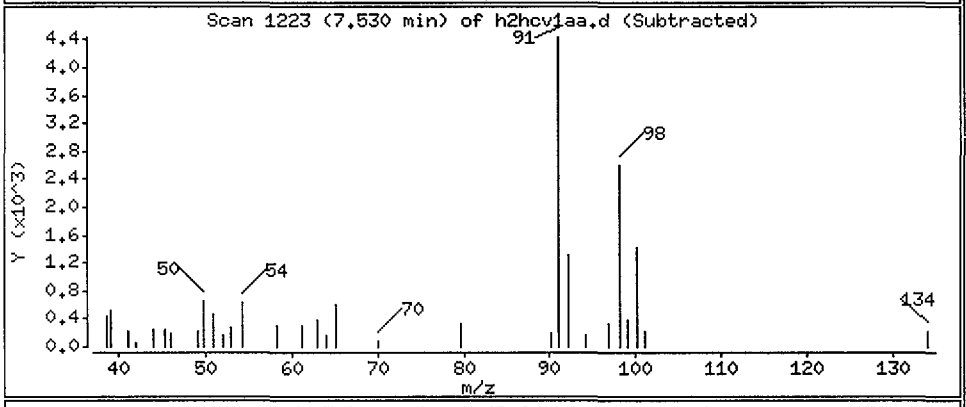
Column phase: J+W 624

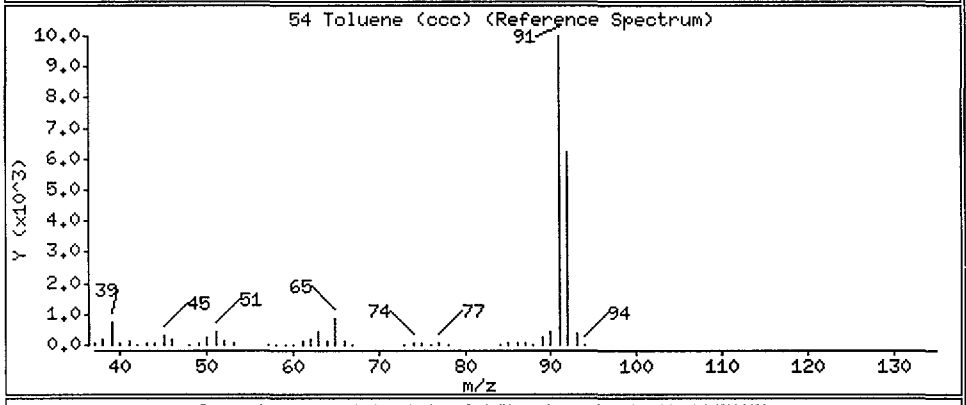
Column diameter: 0.18

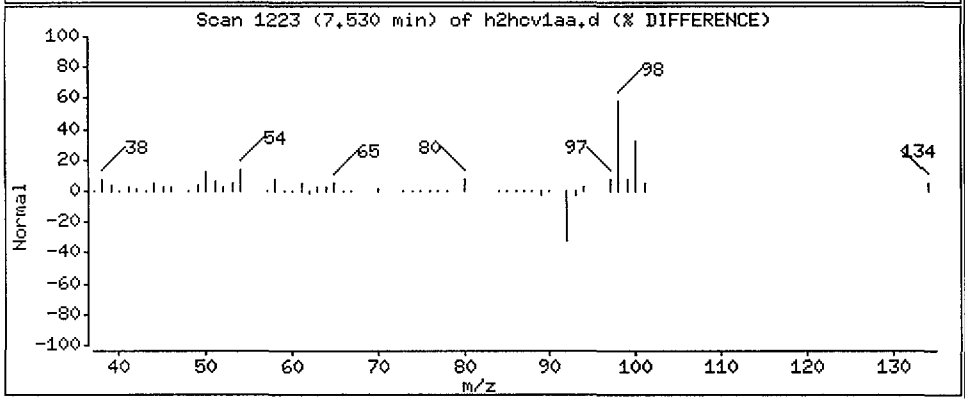
54 Toluene (ccc)

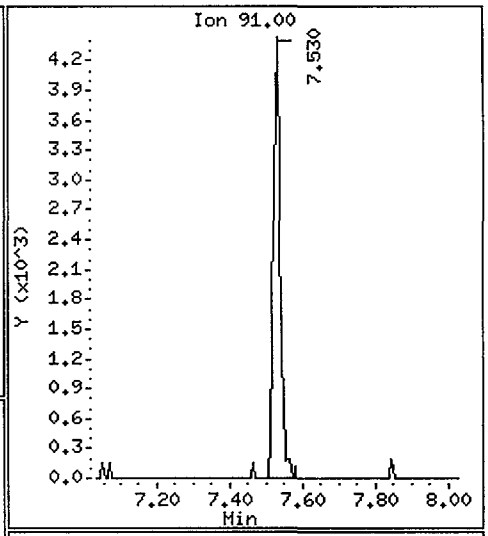
Concentration: 0.0012792 ug

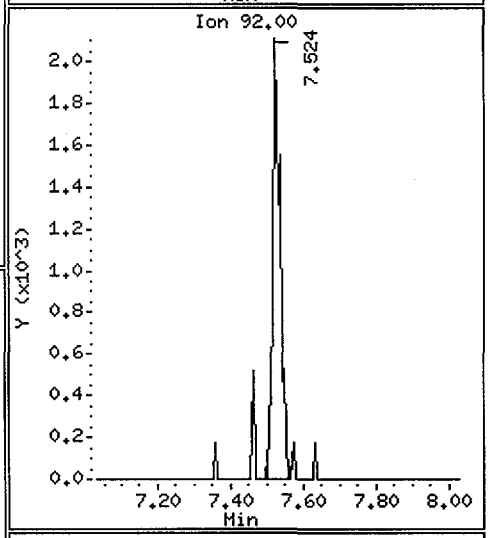


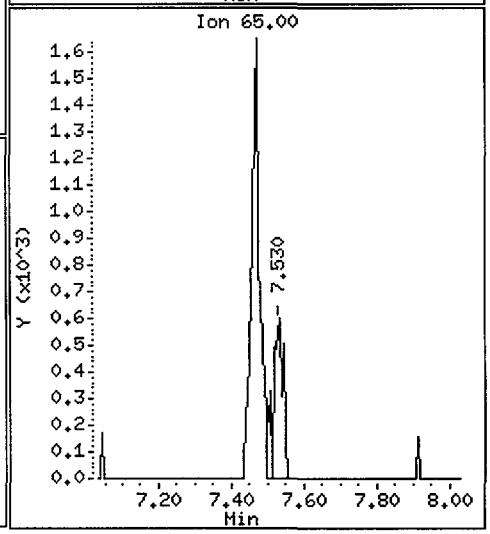












Data File: /chem/gcms/mz.i/Z040706.b/h2hcv1aa.d

Date : 07-APR-2006 12:45

Client ID: G-3098-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCV1AA,1,0,,

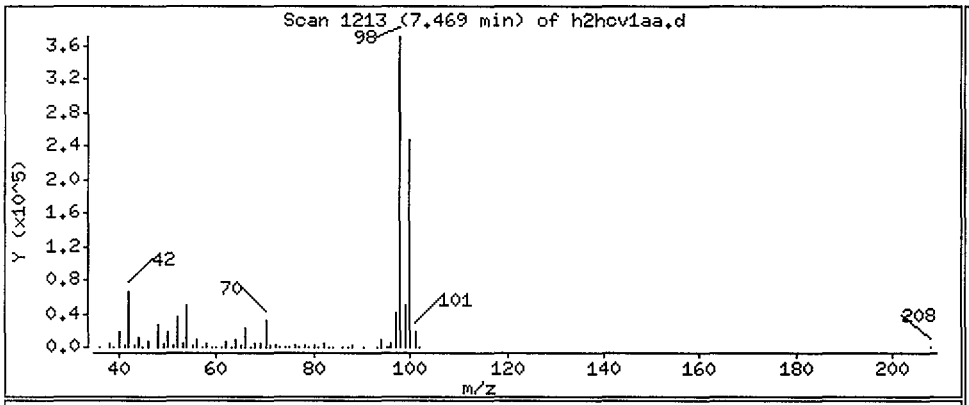
Operator: 22980

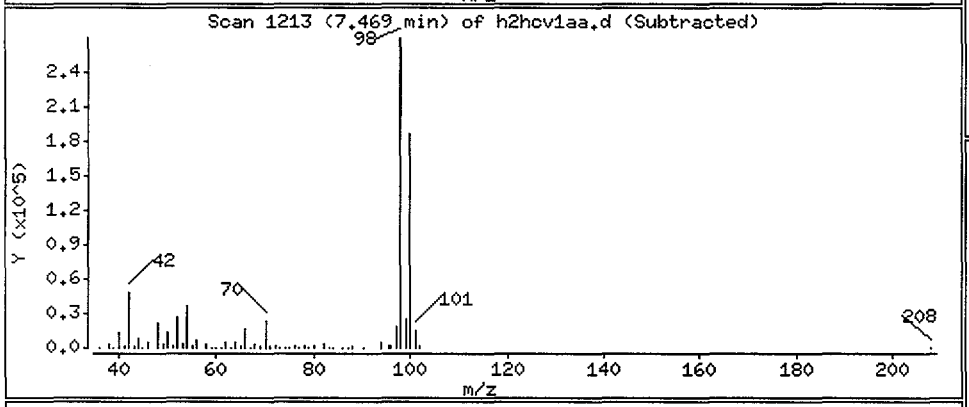
Column phase: J+W 624

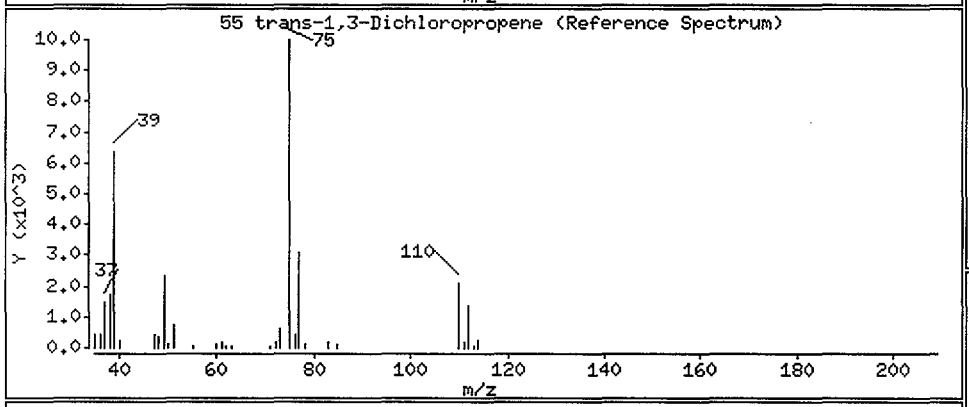
Column diameter: 0.18

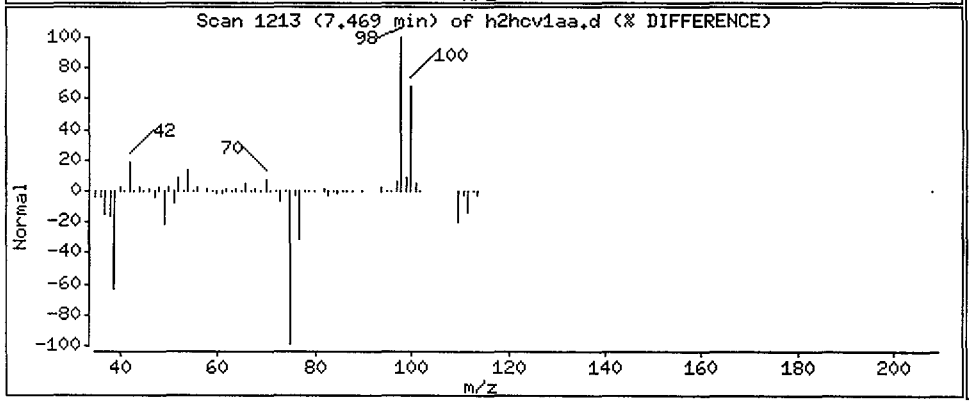
55 trans-1,3-Dichloropropene

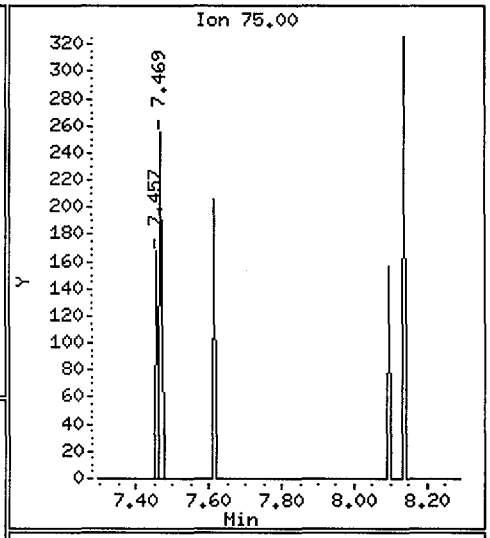
Concentration: 0.015772 ug

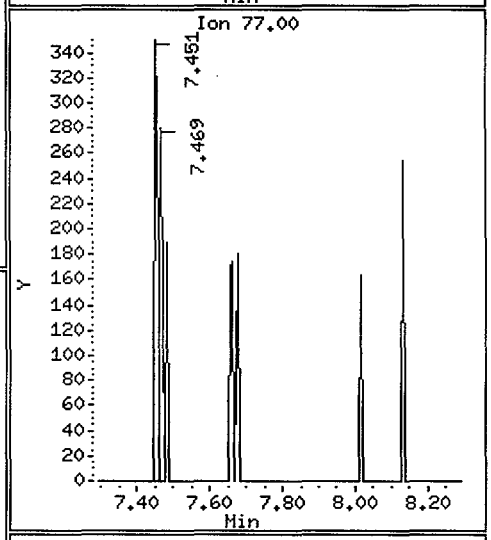


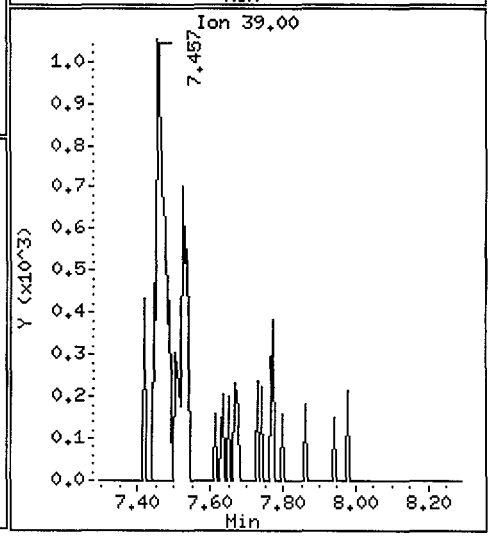












Data File: /chem/gcms/mz.i/Z040706.b/h2hcv1aa.d

Date : 07-APR-2006 12:45

Client ID: G-3098-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCV1AA,1,0,,

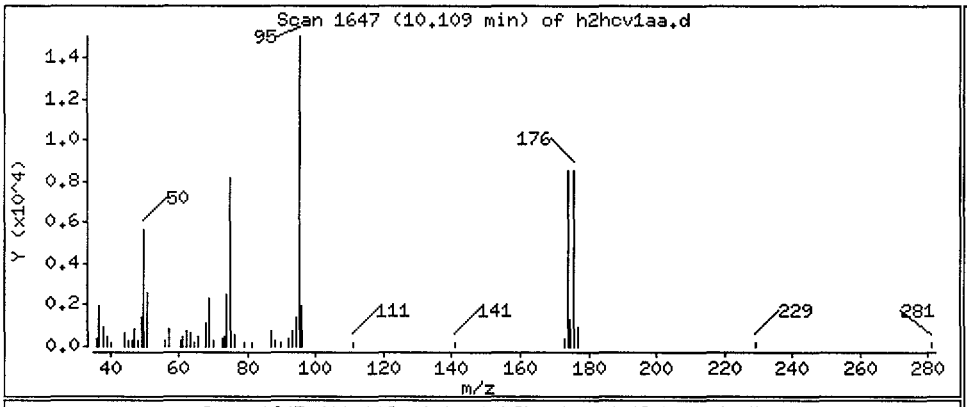
Operator: 22980

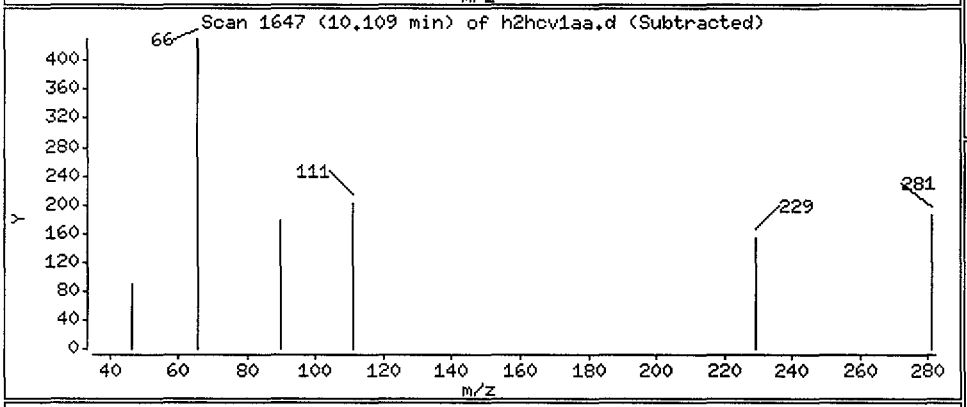
Column phase: J+W 624

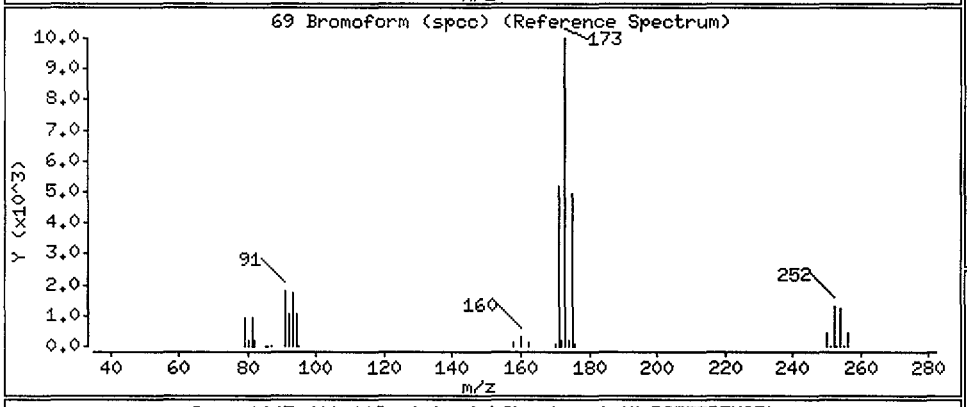
Column diameter: 0.18

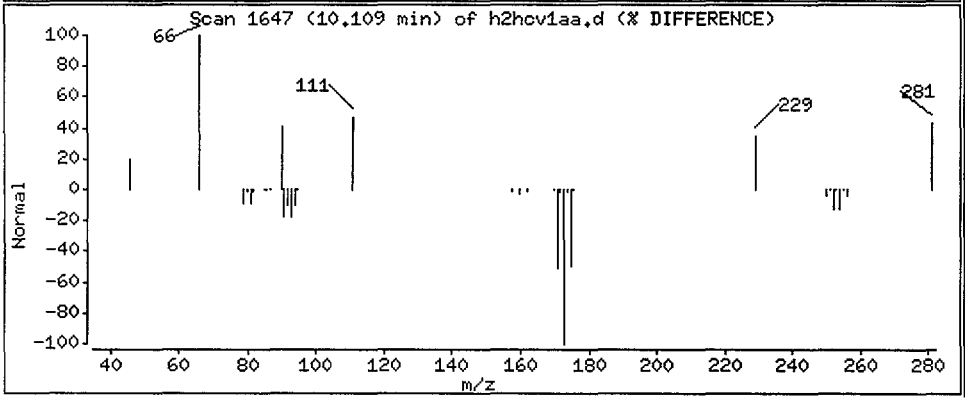
69 Bromoform (spcc)

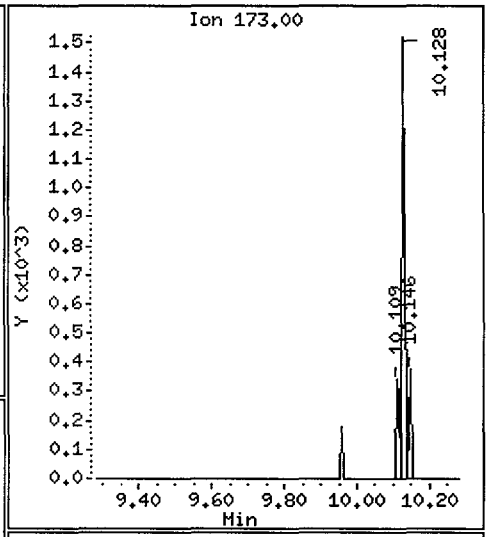
Concentration: 0.021980 ug

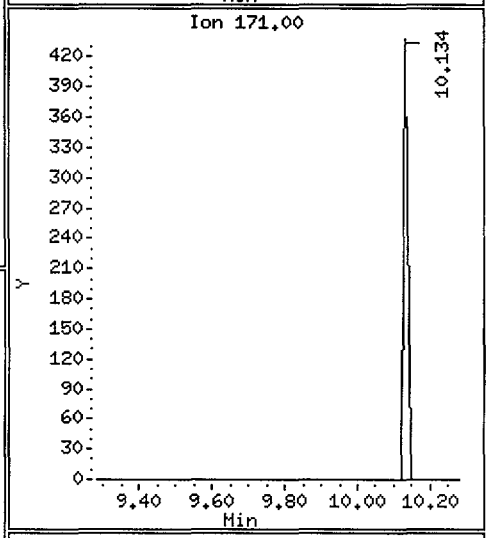


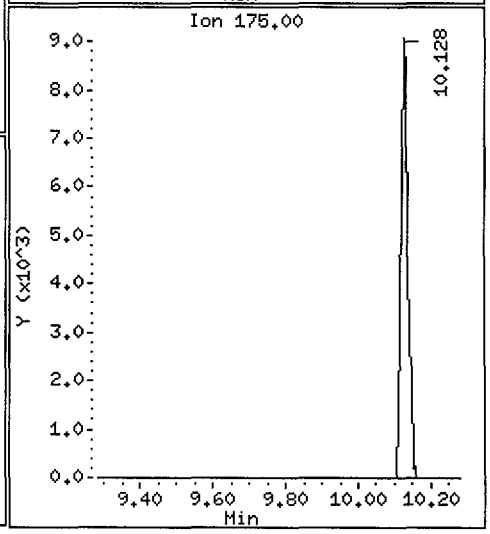












Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcv1aa.d
Report Date: 14-Apr-2006 17:03

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2hcv1aa.d
Lab Smp Id: H2HCV1AA Client Smp ID: G-3098-R3-VOST TENA
Inj Date : 07-APR-2006 12:45
Operator : 22980 Inst ID: mz.i
Smp Info : H2HCV1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.675	930863	10.000

	CONCENTRATIONS			QUANT			
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug)	QUAL	LIBRARY	LIB ENTRY	CPND #
0.905	1132682	12.1680849	0.30420	5	NIST05.1	80	1

Carbon dioxide CAS #: 124-38-9

co2

JW 4/14/06

Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcv1aa.d

Date : 07-APR-2006 12:45

Client ID: G-3098-R3-VOST TENA

Instrument: mz.i

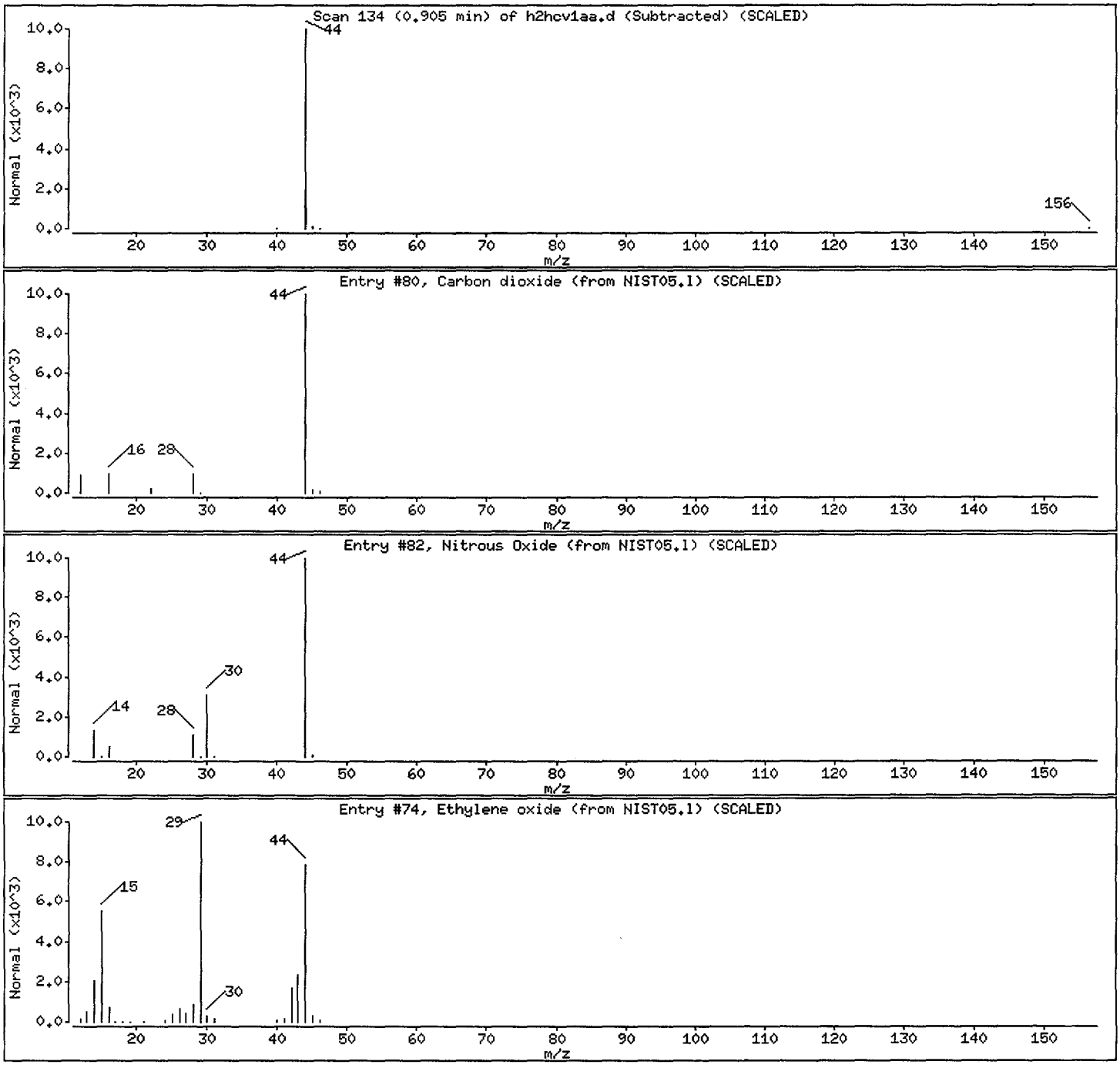
Sample Info: H2HCV1AA,1,0,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.l	80	5	CO2	44
Nitrous Oxide	10024-97-2	NIST05.l	82	3	N2O	44
Ethylene oxide	75-21-8	NIST05.l	74	2	C2H4O	44



STL Knoxville - ACS

Client Sample ID: G-3099-R3-VOST TENAX/CHARCOAL FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-033 **Work Order #...:** H2HCW1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.094 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.027 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	**0.016 J**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3099-R3-VOST TENAX/CHARCOAL FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-033 **Work Order #...:** H2HCW1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	103	(50 - 134)
1,2-Dichloroethane-d4	97	(50 - 134)
Toluene-d8	92	(57 - 127)
Bromofluorobenzene	81	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3099-R3-VOST TENAX/CHARCOAL FB

GC/MS Volatiles

Lot-Sample #: H6D030169-033 **Work Order #:** H2HCW1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /chem/gcms/mz.i/Z040706.b/h2hcw1aa.d
Report Date: 07-Apr-2006 12:39

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040706.b/h2hcw1aa.d
Lab Smp Id: H2HCW1AA Client Smp ID: G-3099-R3-VOST TENA
Inj Date : 07-APR-2006 12:22
Operator : 22980 Inst ID: mz.i
Smp Info : H2HCW1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 09:40 gosss Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)	
* 1 Fluorobenzene	96	5.672	5.676	(1.000)	823293	10.0000		
* 2 Chlorobenzene-d5	119	8.933	8.937	(1.000)	176192	10.0000		
* 3 1,4 Dichlorobenzene-d4	152	11.494	11.492	(1.000)	238035	10.0000		
$ 4 Dibromofluoromethane	113	4.832	4.831	(0.852)	135339	10.2591	0.25648	
$ 5 1,2-Dichloroethane-d4	65	5.240	5.238	(0.924)	111035	9.73322	0.24333	
$ 6 Toluene-d8	98	7.460	7.465	(0.835)	709724	9.16767	0.22919	
$ 7 4-Bromofluorobenzene	95	10.125	10.129	(0.881)	193368	8.05502	0.20138	
11 Chloromethane (spcc)	50	1.121	1.126	(0.198)	55938	0.63773	0.015943	
15 Bromomethane	94	1.413	1.418	(0.249)	2002	1.06231	0.026558	
22 Acetone	43	2.125	2.123	(0.375)	857	3.42425	0.085606	- See reprint for (Nr)
23 *Iodomethane	142	2.198	2.184	(0.388)	730	0.55624	0.013906	
39 *THF	42	4.546	4.532	(0.802)	839	0.42995	0.010749	
45 1,2-Dichloroethane	62	5.666	5.335	(0.999)	12243	0.71213	0.017803	
53 4-Methyl-2-pentanone	43	7.460	7.386	(1.315)	5895	0.81995	0.020499	
55 trans-1,3-Dichloropropene	75	7.460	7.793	(0.835)	242	0.64043	0.016011	
69 Bromoform (spcc)	173	10.119	9.782	(1.133)	466	0.96711	0.024178	

Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcw1aa.d
Report Date: 14-Apr-2006 16:44

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2hcw1aa.d
Lab Smp Id: H2HCW1AA Client Smp ID: G-3099-R3-VOST TENA
Inj Date : 07-APR-2006 12:22
Operator : 22980 Inst ID: mz.i
Smp Info : H2HCW1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.672	5.676	(1.000)	823293	10.0000	
* 2 Chlorobenzene-d5	119	8.933	8.937	(1.000)	176192	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.494	11.492	(1.000)	238035	10.0000	
$ 4 Dibromofluoromethane	113	4.832	4.831	(0.852)	135339	10.2591	0.25648
$ 5 1,2-Dichloroethane-d4	65	5.240	5.238	(0.924)	111035	9.73321	0.24333
$ 6 Toluene-d8	98	7.460	7.465	(0.835)	709724	9.16770	0.22919
$ 7 4-Bromofluorobenzene	95	10.125	10.129	(0.881)	193368	8.05502	0.20138
11 Chloromethane (spcc)	50	1.121	1.126	(0.198)	55938	0.63772	0.015943
15 Bromomethane	94	1.413	1.418	(0.249)	2002	1.06222	0.026555
22 Acetone	43	2.143	2.123	(0.378)	2516	3.75519	0.093880(M)
23 *Iodomethane	142	2.198	2.184	(0.388)	730	0.55624	0.013906
39 *THF	42	4.546	4.532	(0.802)	839	0.42951	0.010738

Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcw1aa.d
Report Date: 14-Apr-2006 16:44

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/gcms/mz.i/Z040706.b/h2hcw1aa.d
Report Date: 07-Apr-2006 12:39

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2hcw1aa.d
Lab Smp Id: H2HCW1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 07:35
Client Smp ID: G-3099-R3-VOST TENA
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	952581	476290	1905162	823293	-13.57
2 Chlorobenzene-d5	164101	82050	328202	176192	7.37
3 1,4 Dichlorobenze	204390	102195	408780	238035	16.46

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.68	5.18	6.18	5.67	-0.08
2 Chlorobenzene-d5	8.94	8.44	9.44	8.93	-0.05
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	0.02

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

Data File: /chem/gcms/mz.i/Z040706.b/h2hcw1aa.d
Report Date: 07-Apr-2006 12:39

STL Knoxville

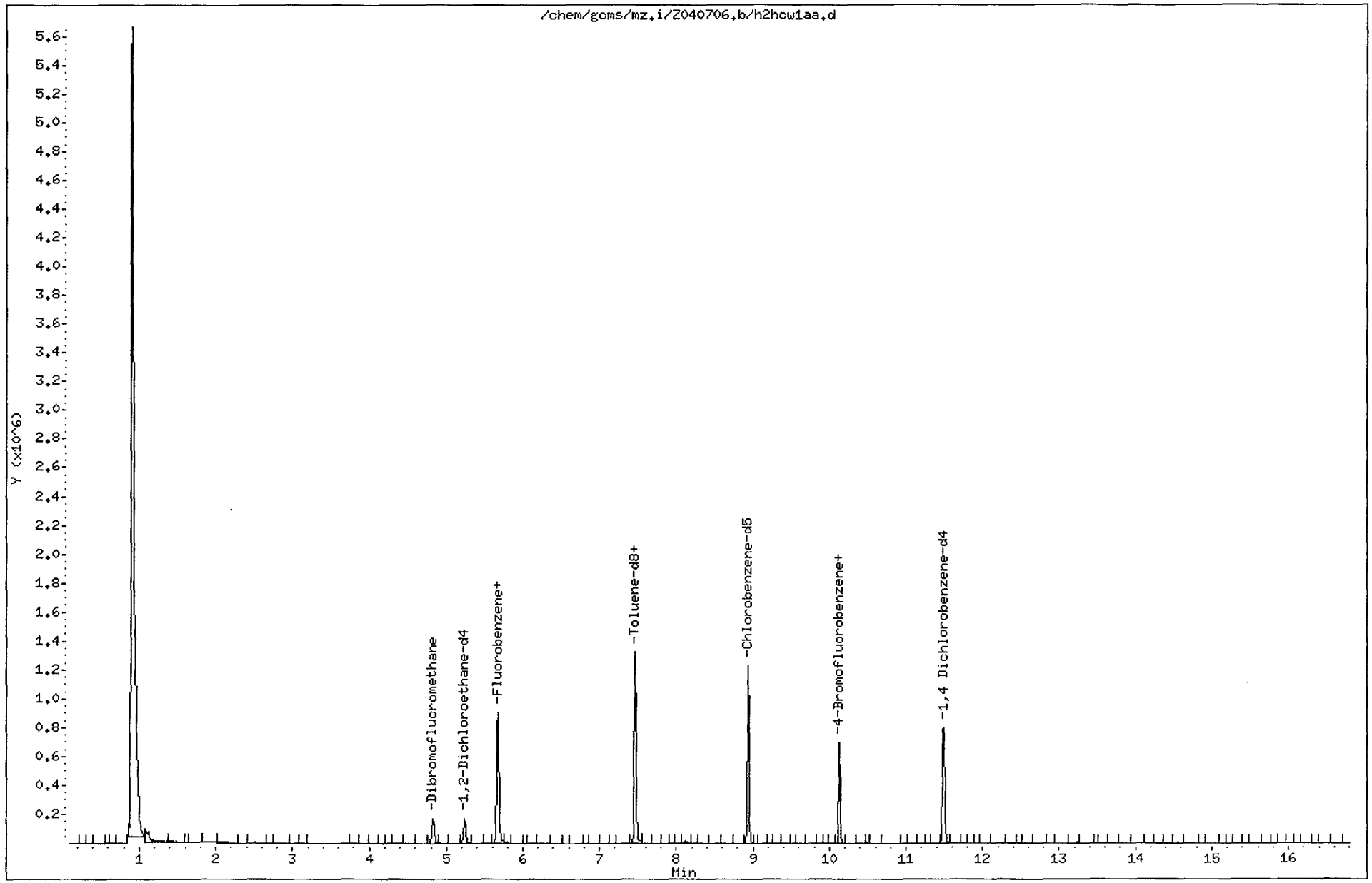
RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030169
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: H2HCW1AA
Client Smp ID: G-3099-R3-VOST TENA
Level: LOW
Operator: 22980
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allcmpds.spk
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.25648	102.59	50-150
$ 5 1,2-Dichloroethane	0.25000	0.24333	97.33	50-150
$ 6 Toluene-d8	0.25000	0.22919	91.68	50-150
$ 7 4-Bromofluorobenze	0.25000	0.20138	80.55	50-150

Data File: /chem/gcms/mz.i/Z040706.b/h2hcw1aa.d
Date : 07-APR-2006 12:22
Client ID: G-3099-R3-VOST TENA
Sample Info: H2HCW1AA,1,0,,

Instrument: mz.i
Operator: 22980
Column phase: J+W 624
Column diameter: 0.18



Data File: /chem/gcms/mz.i/Z040706.b/h2hcw1aa.d

Date : 07-APR-2006 12:22

Client ID: G-3099-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCW1AA,1,0,,

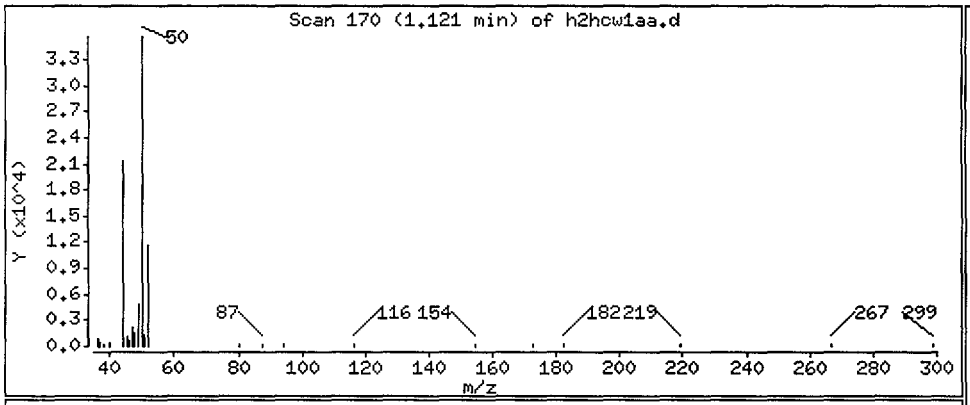
Operator: 22980

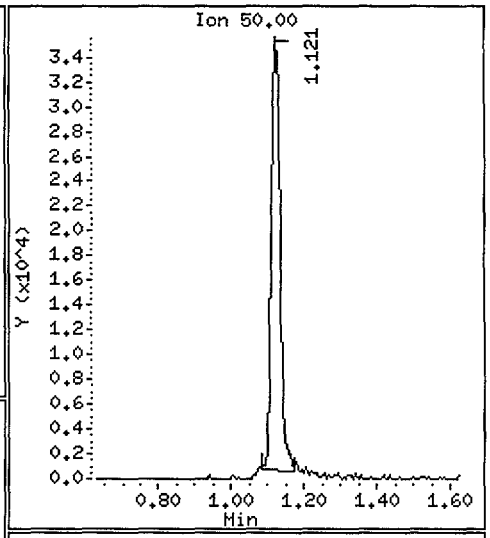
Column phase: J+W 624

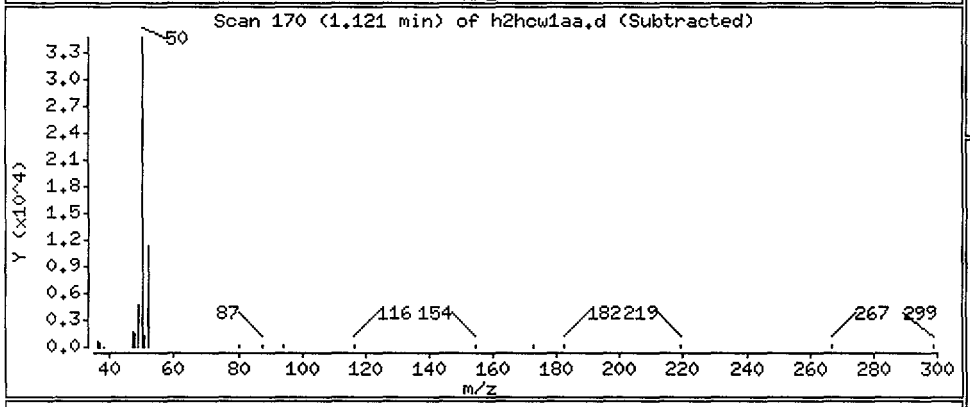
Column diameter: 0.18

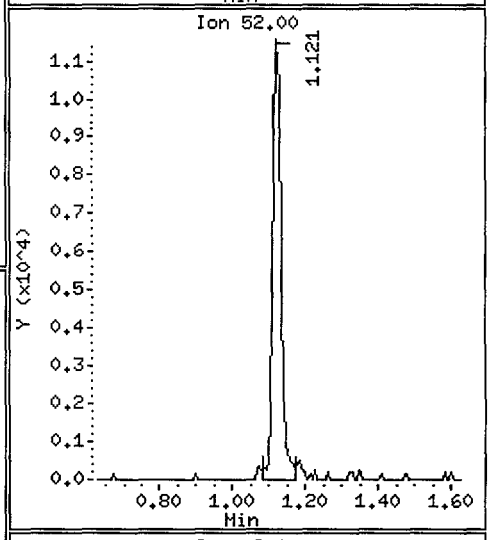
11 Chloromethane (spcc)

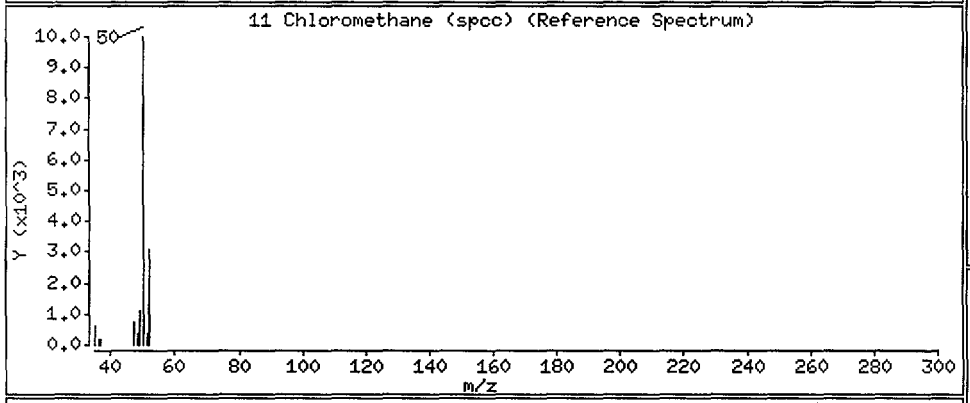
Concentration: 0.015943 ug

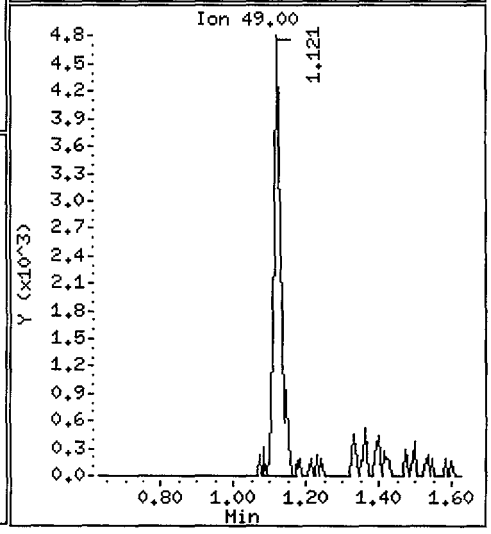


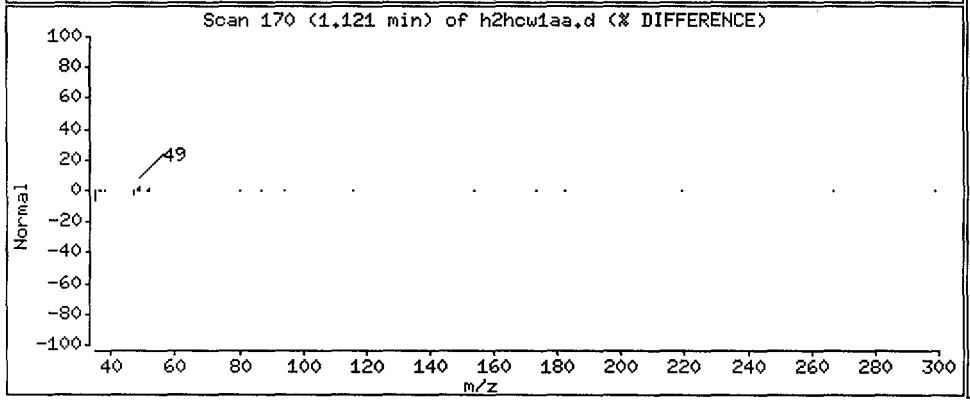












Data File: /chem/gcms/mz.i/Z040706.b/h2hcw1aa.d

Date : 07-APR-2006 12:22

Client ID: G-3099-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCW1AA,1,0,,

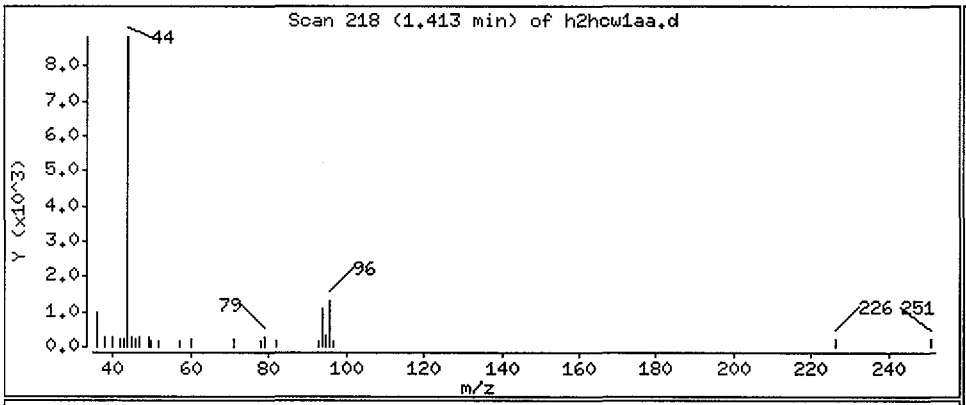
Operator: 22980

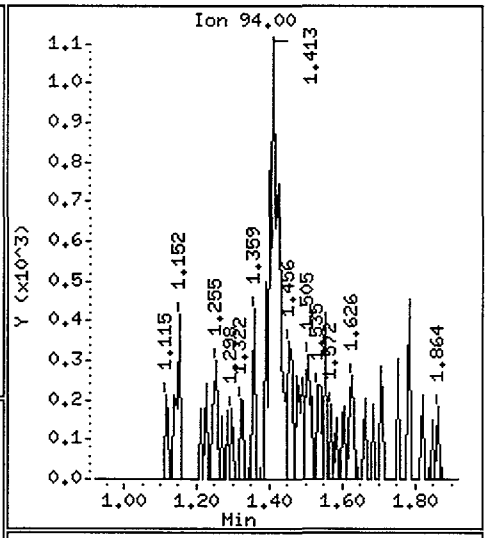
Column phase: J+W 624

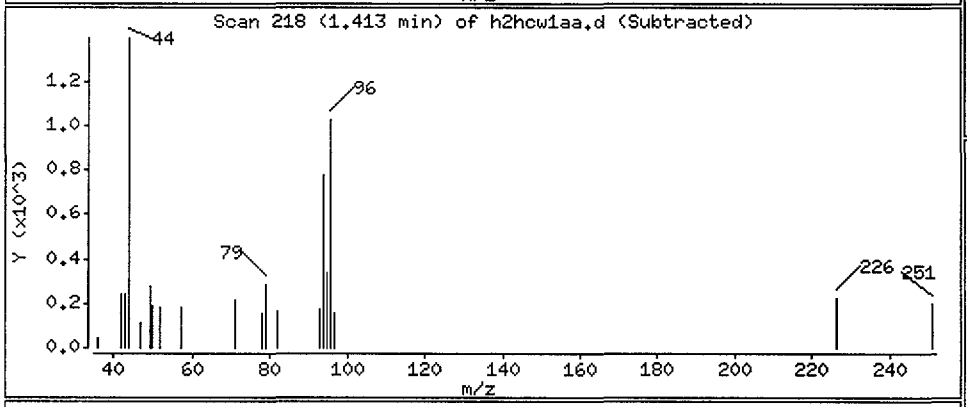
Column diameter: 0.18

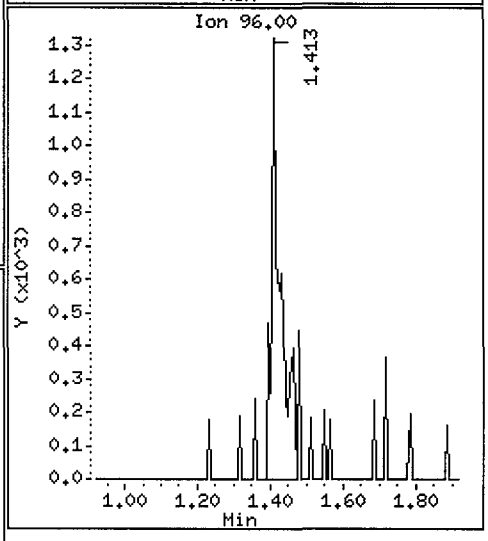
15 Bromomethane

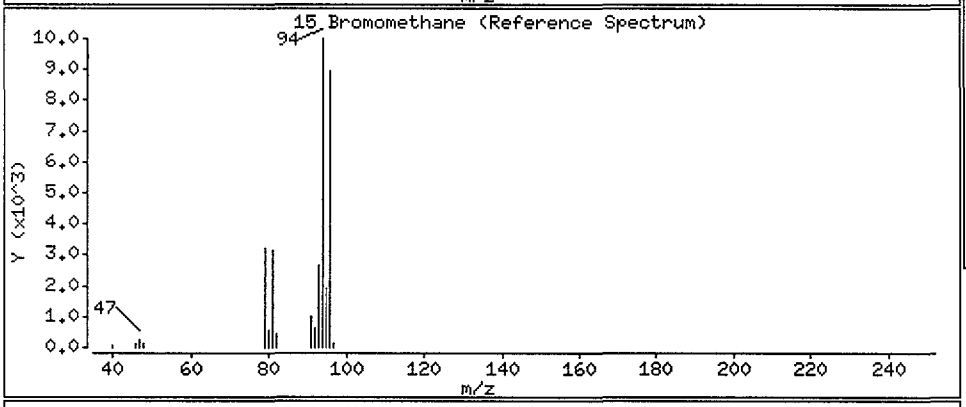
Concentration: 0.026558 ug

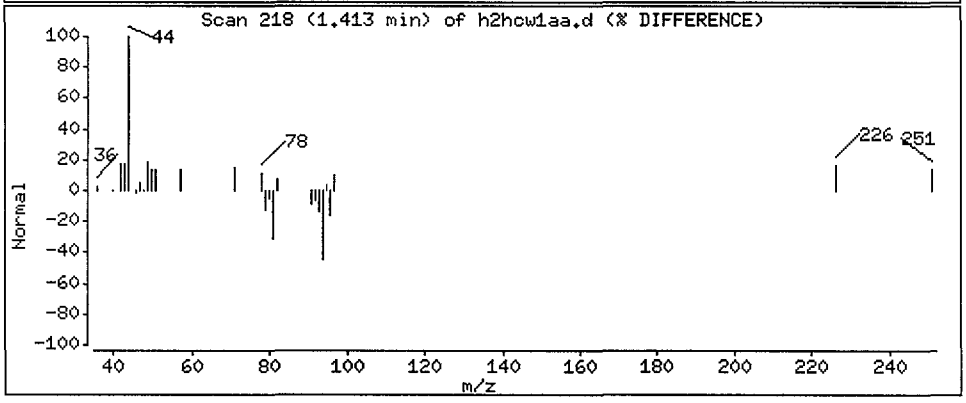












Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcw1aa.d

Date : 07-APR-2006 12:22

Client ID: G-3099-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCW1AA,1,0,,

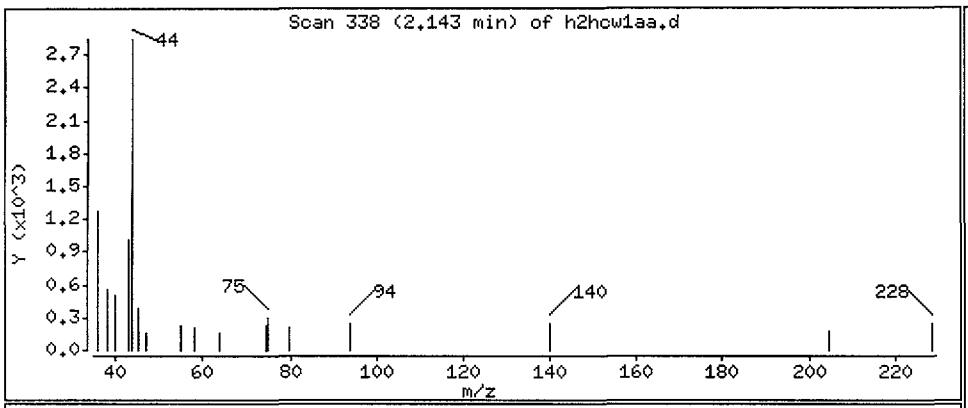
Operator: 22980

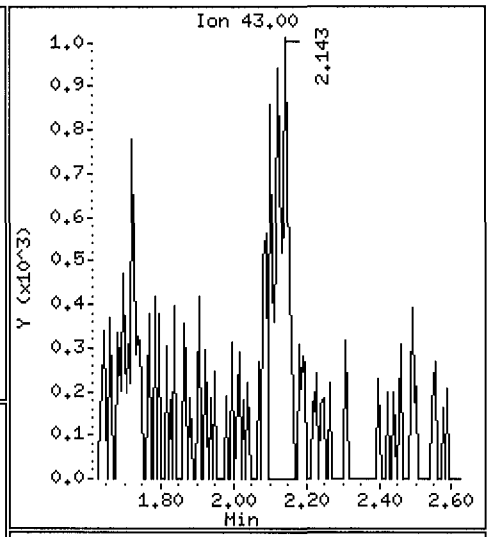
Column phase: J+W 624

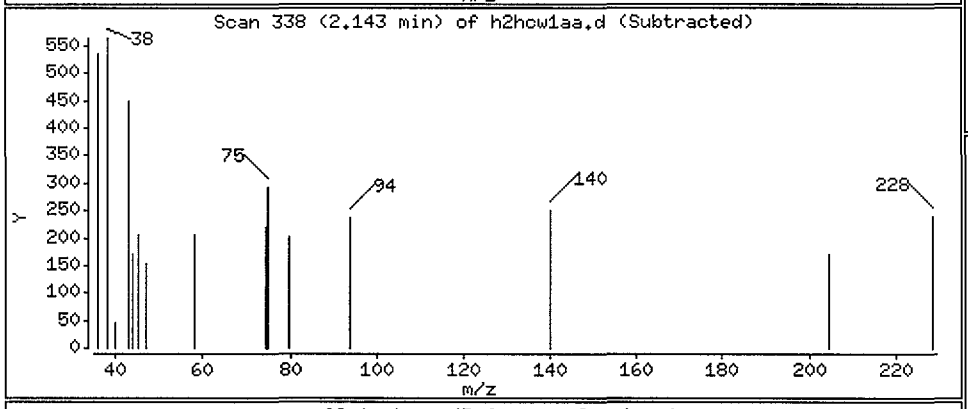
Column diameter: 0.18

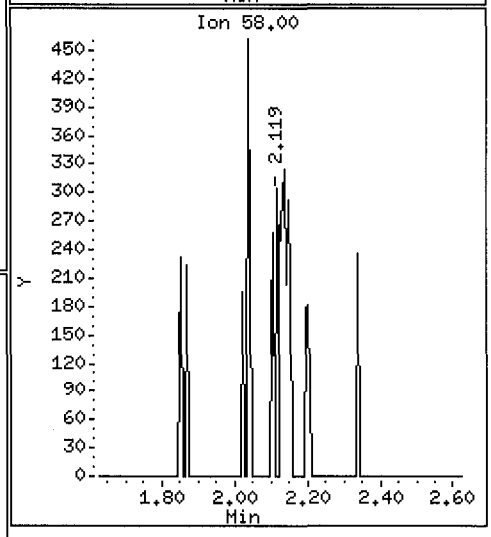
22 Acetone

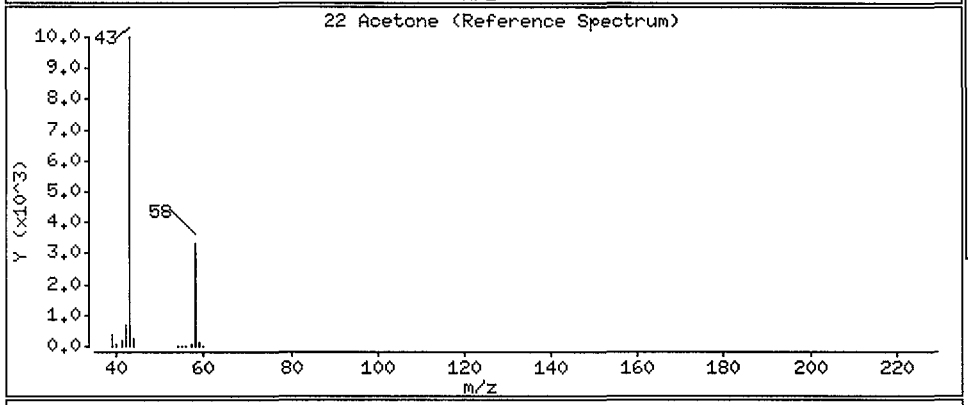
Concentration: 0.093880 ug

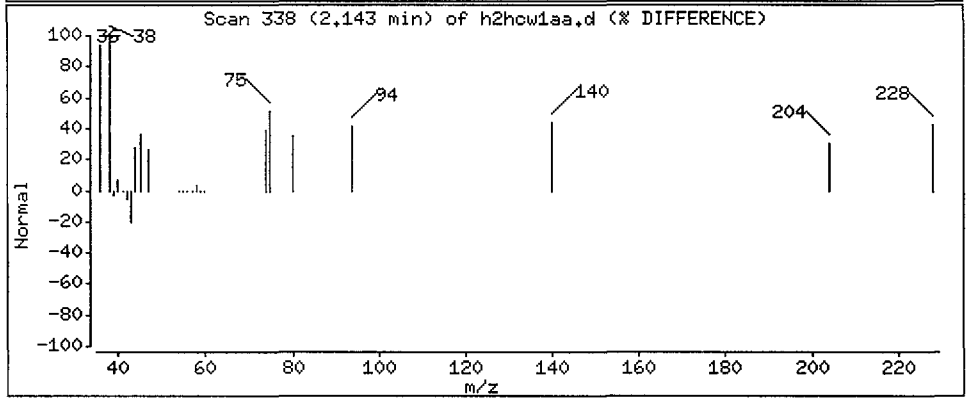












Data File: /chem/gcms/mz.i/Z040706.b/h2hcw1aa.d

Date : 07-APR-2006 12:22

Client ID: G-3099-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCW1AA,1,0,,

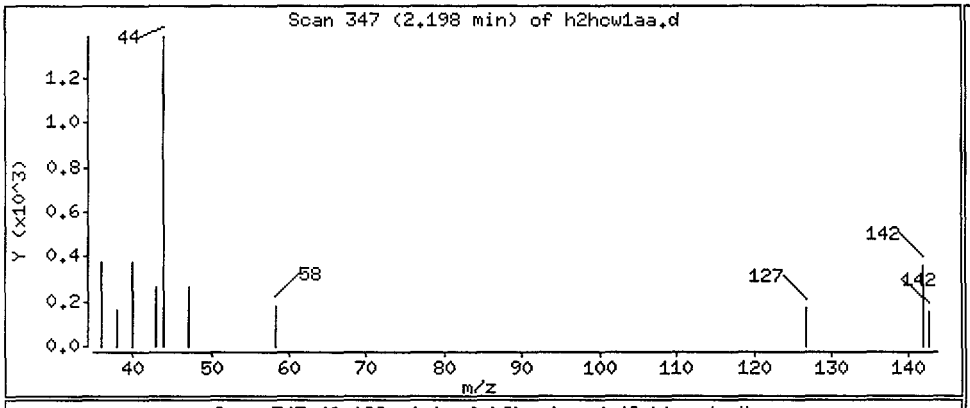
Operator: 22980

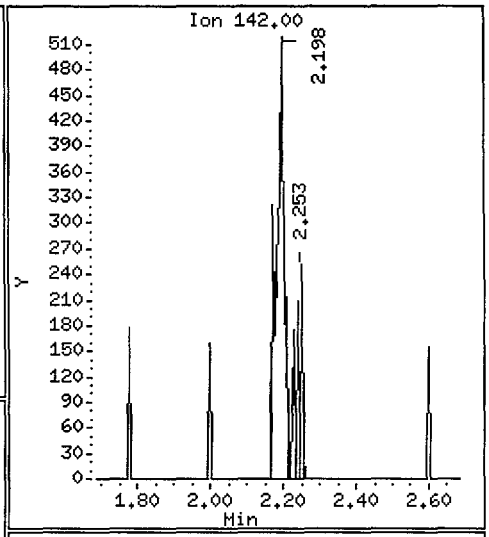
Column phase: J+W 624

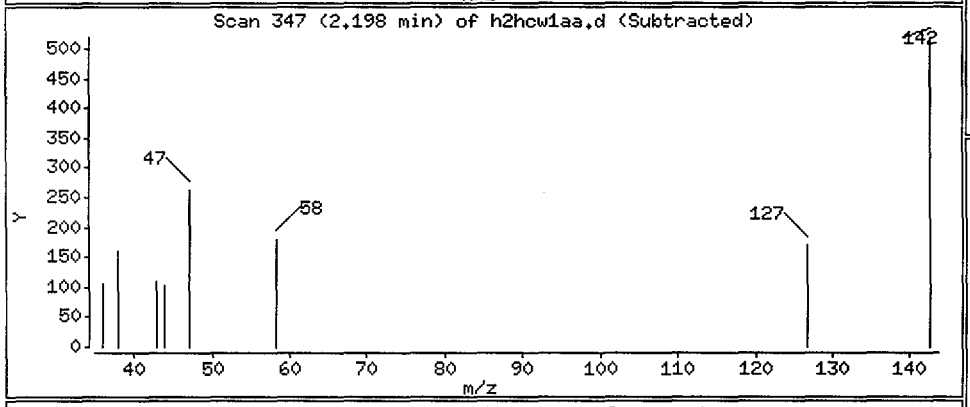
Column diameter: 0.18

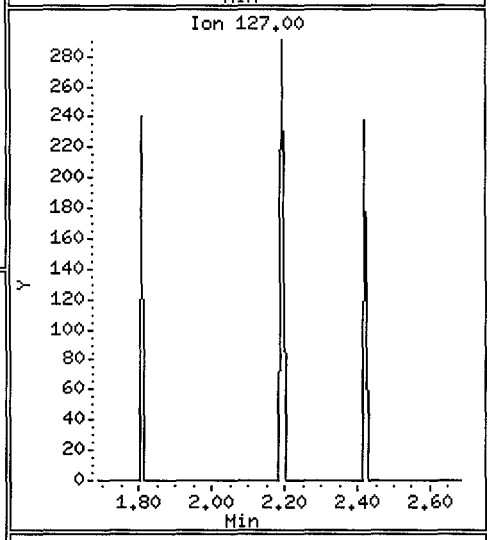
23 *Iodomethane

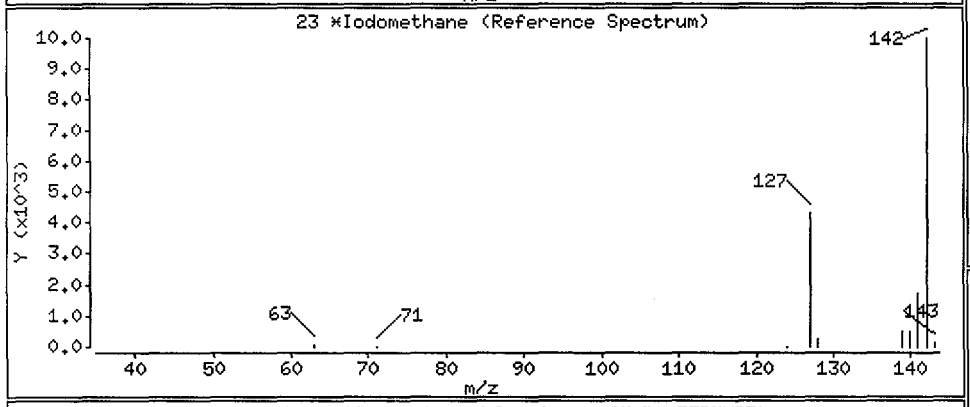
Concentration: 0.013906 ug

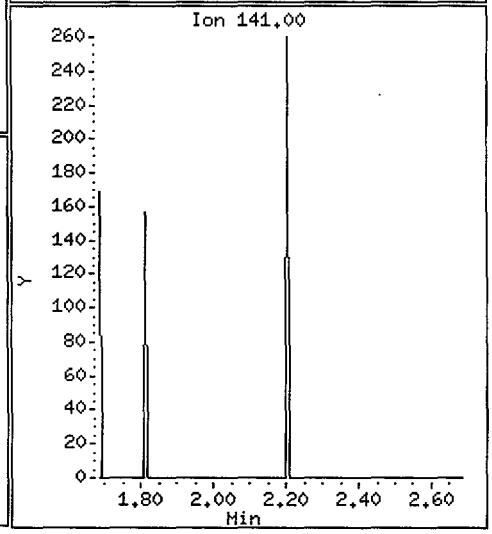


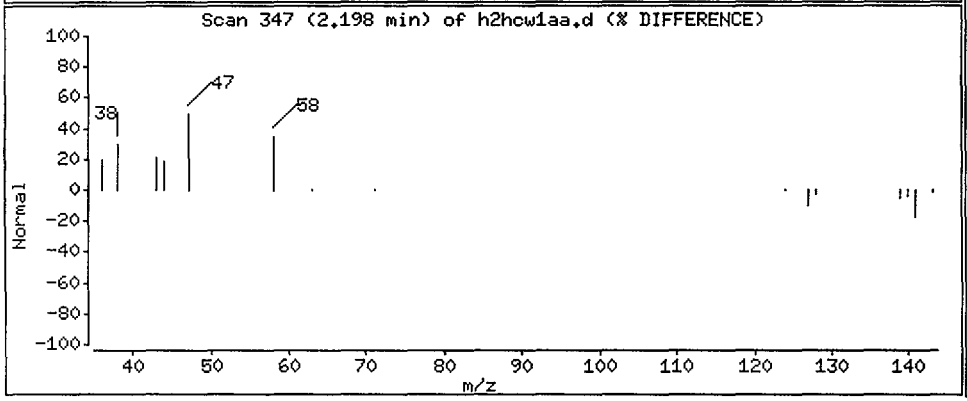












Data File: /chem/gcms/mz.i/Z040706.b/h2hcw1aa.d

Date : 07-APR-2006 12:22

Client ID: G-3099-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCW1AA,1,0,,

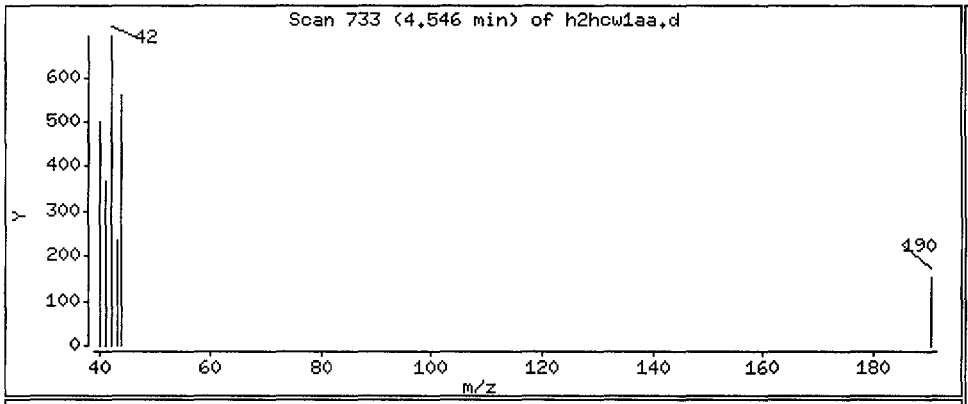
Operator: 22980

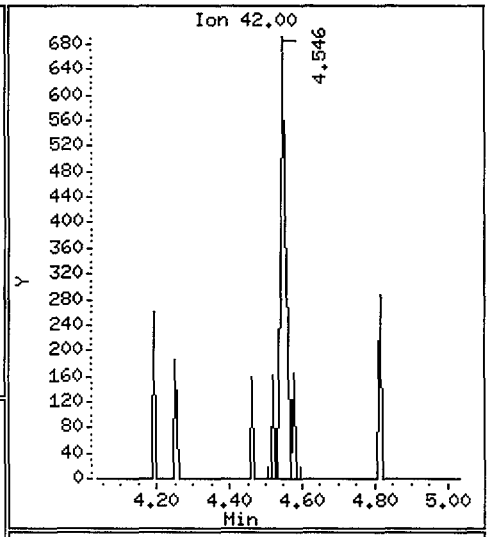
Column phase: J+W 624

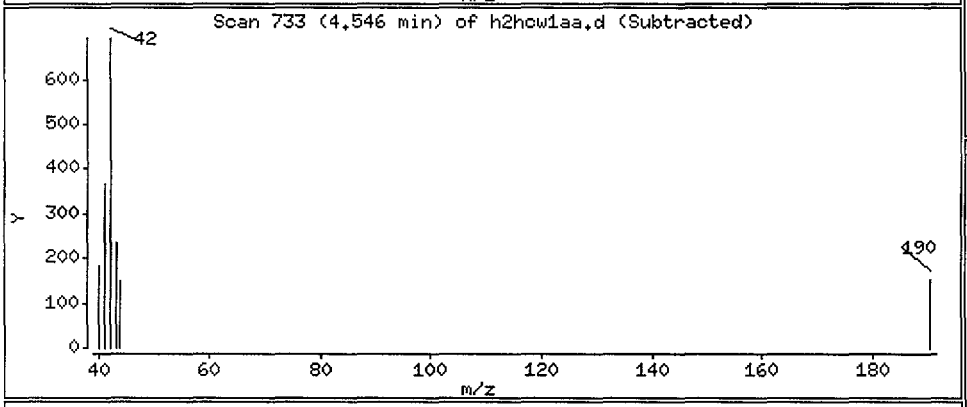
Column diameter: 0.18

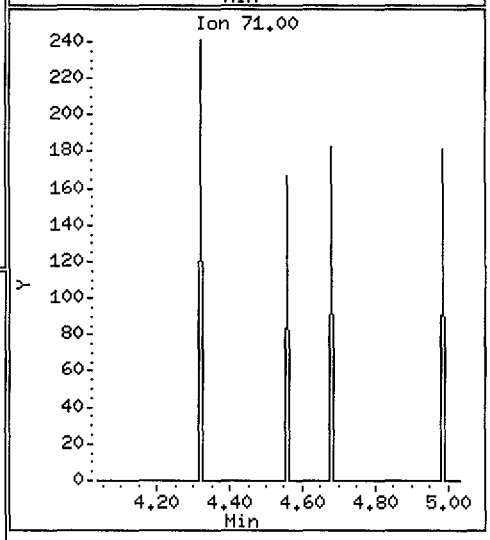
39 *THF

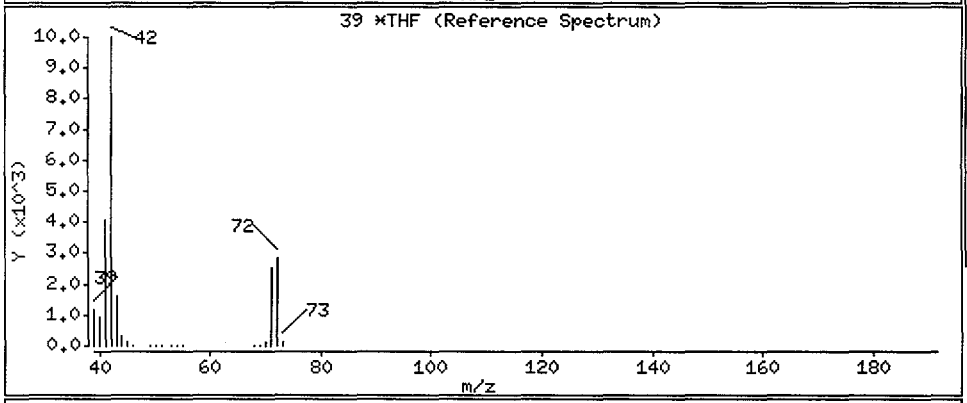
Concentration: 0.010749 ug

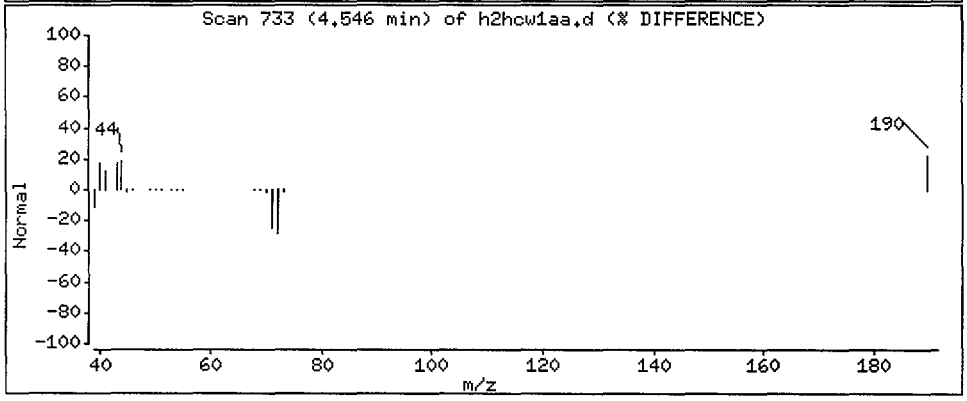












Data File: /chem/gcms/mz.i/Z040706.b/h2hcw1aa.d

Date : 07-APR-2006 12:22

Client ID: G-3099-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCW1AA,1,0,,

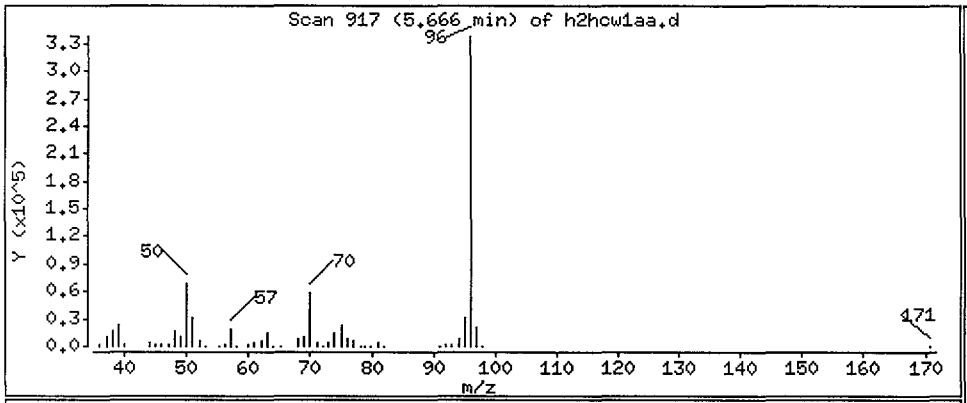
Operator: 22980

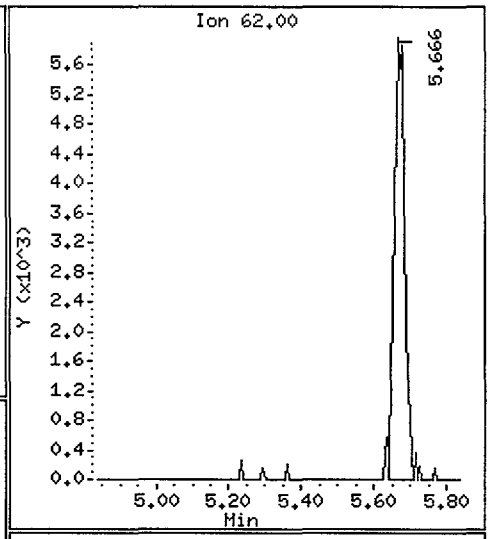
Column phase: J+W 624

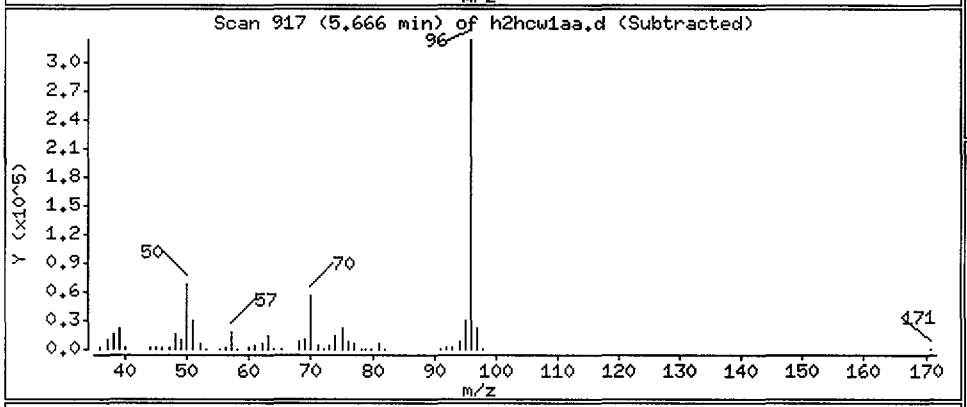
Column diameter: 0.18

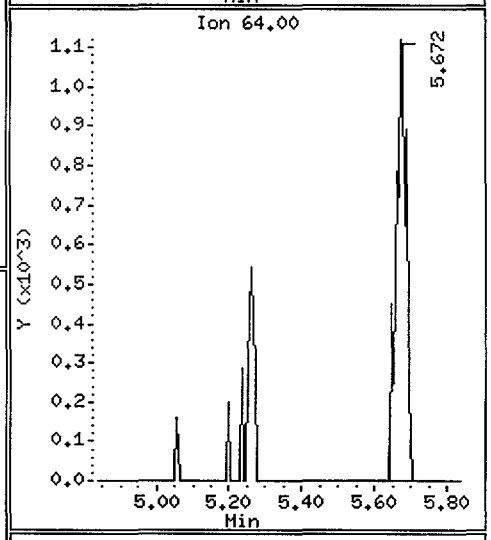
45 1,2-Dichloroethane

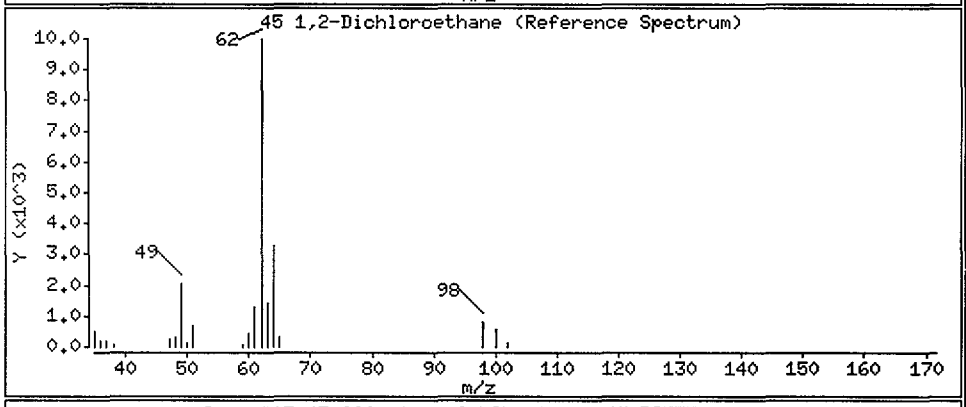
Concentration: 0.017803 ug

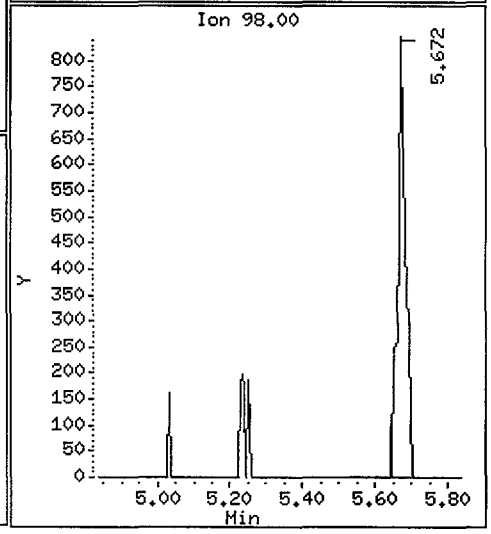


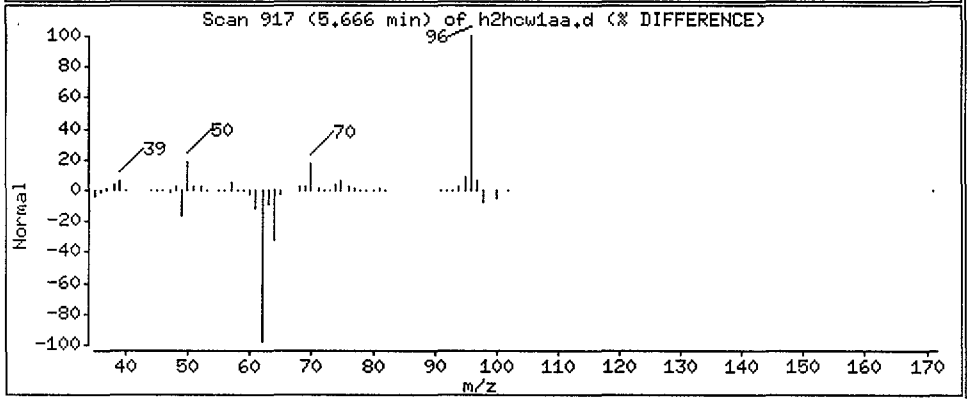












Data File: /chem/gcms/mz.i/Z040706.b/h2hcw1aa.d

Date : 07-APR-2006 12:22

Client ID: G-3099-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCW1AA,1,0,,

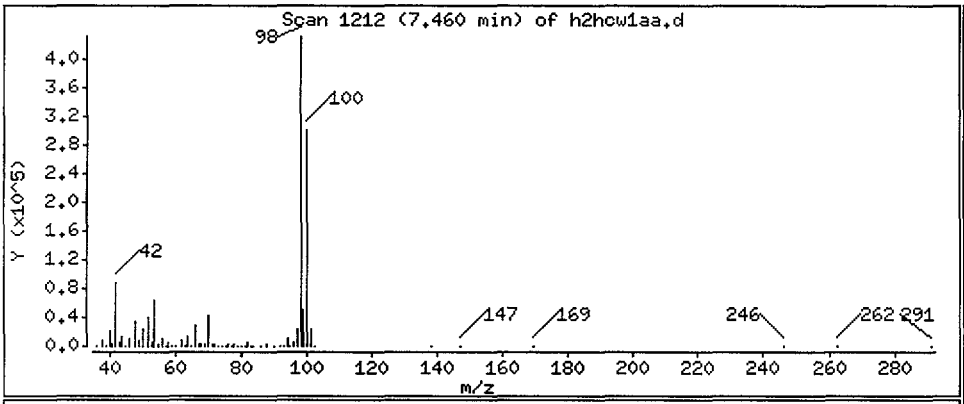
Operator: 22980

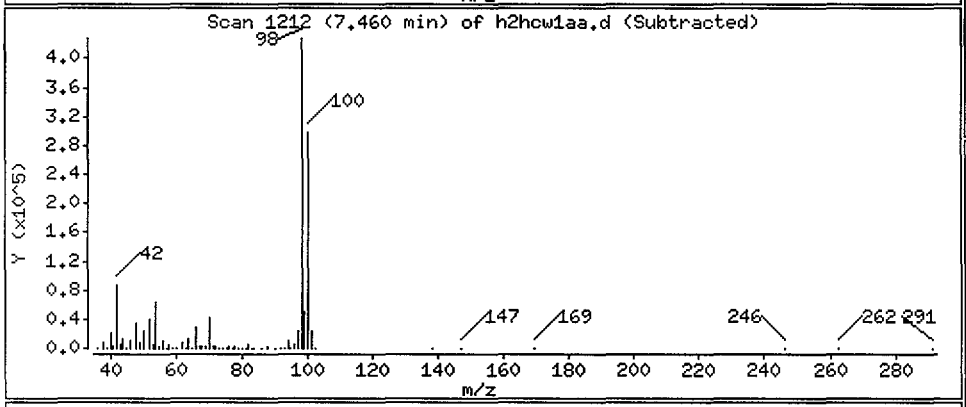
Column phase: J+W 624

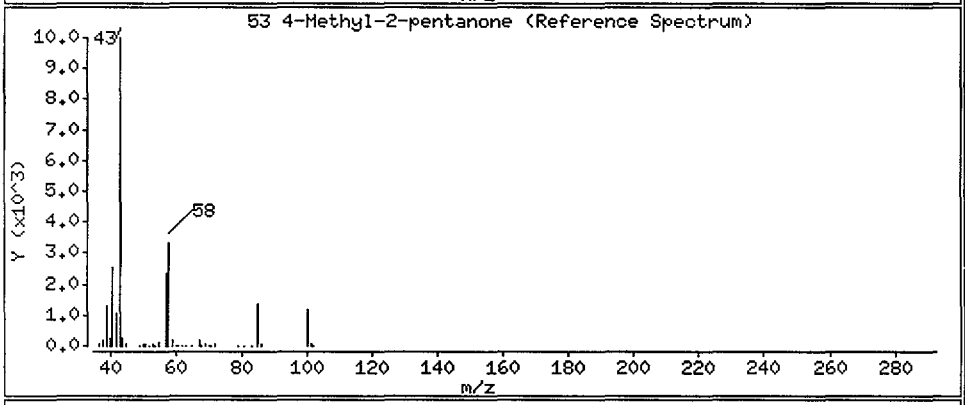
Column diameter: 0.18

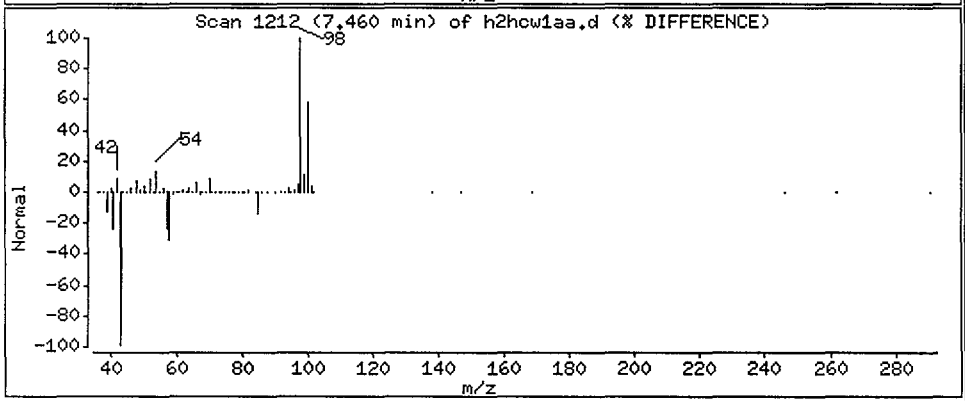
53 4-Methyl-2-pentanone

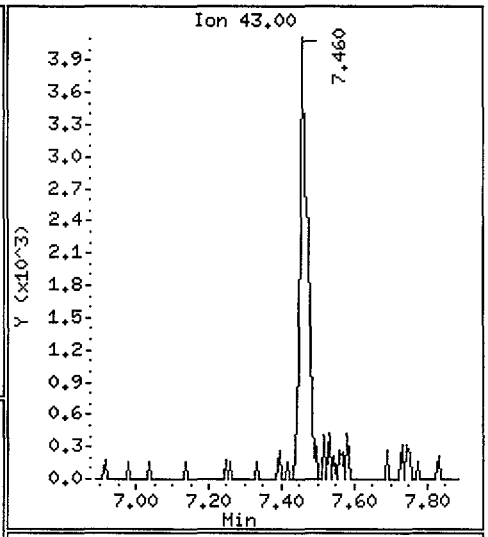
Concentration: 0.020499 ug

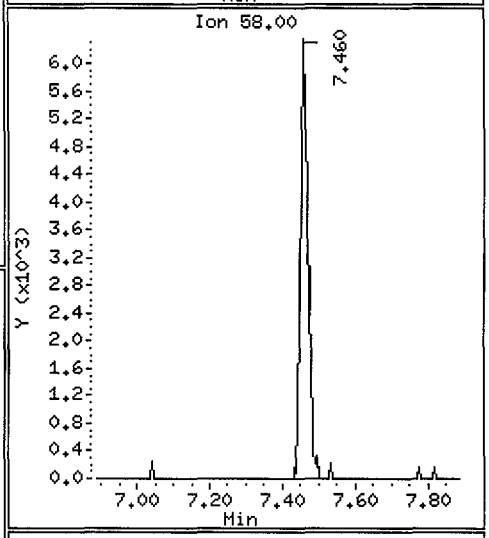


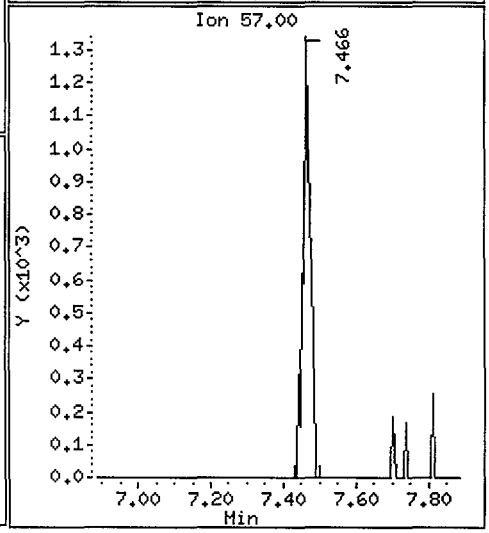












Data File: /chem/gcms/mz.i/Z040706.b/h2hcw1aa.d

Date : 07-APR-2006 12:22

Client ID: G-3099-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCW1AA,1,0,,

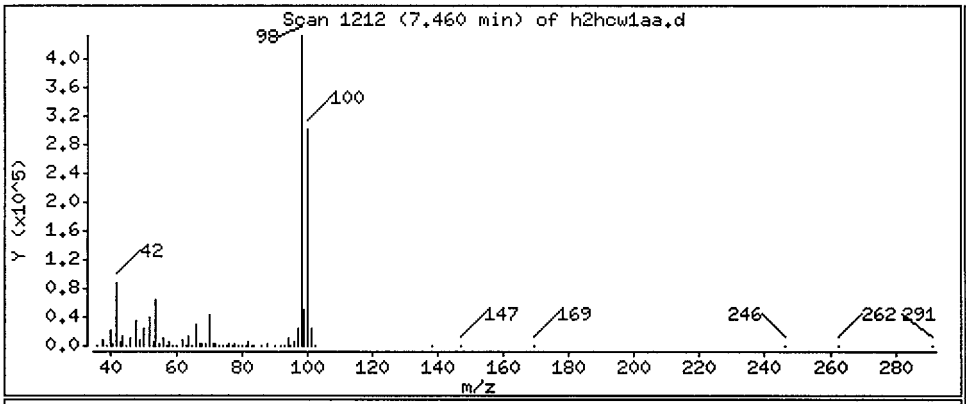
Operator: 22980

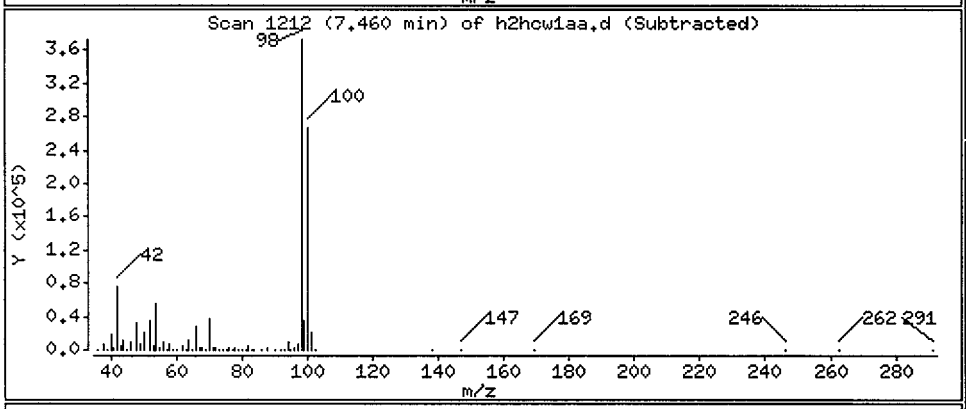
Column phase: J+W 624

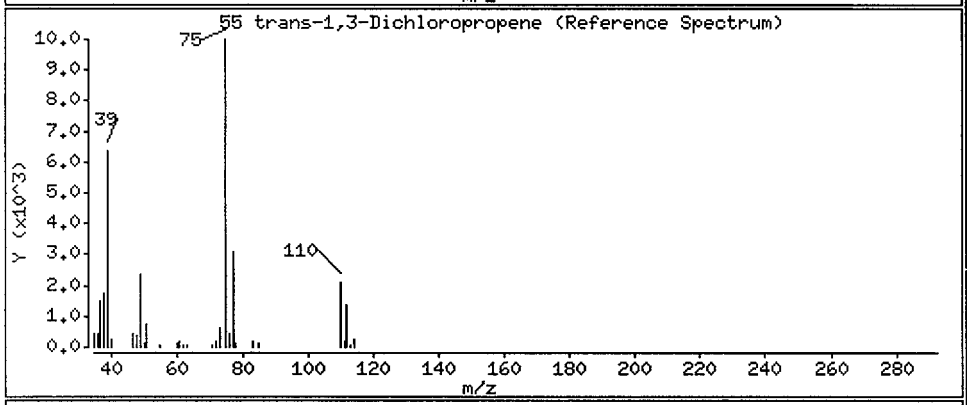
Column diameter: 0.18

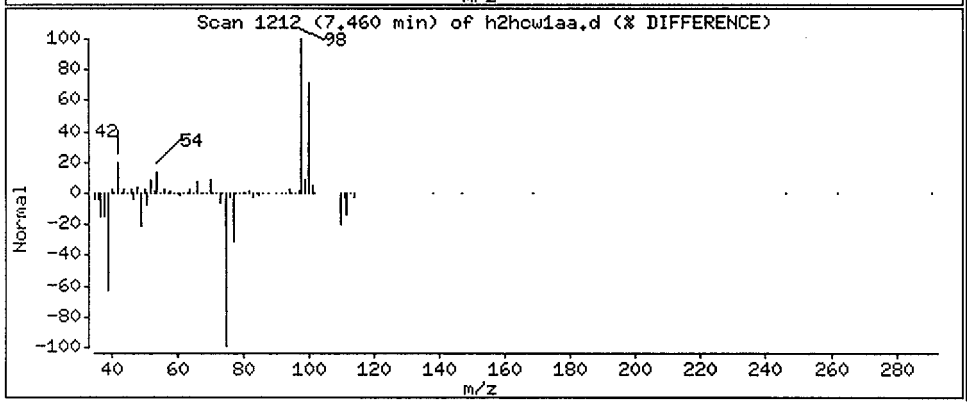
55 trans-1,3-Dichloropropene

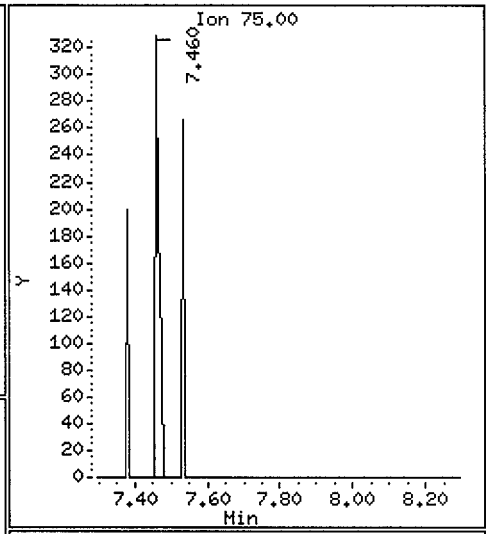
Concentration: 0.016011 ug

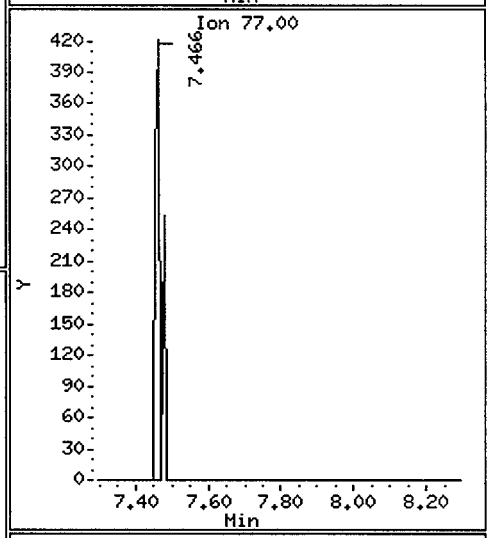


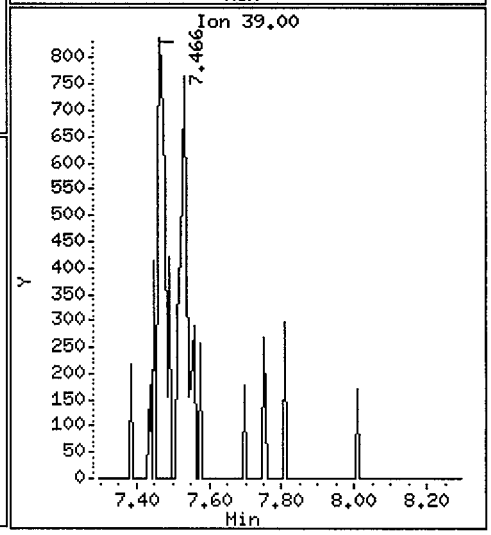












Data File: /chem/gcms/mz.i/Z040706.b/h2hcw1aa.d

Date : 07-APR-2006 12:22

Client ID: G-3099-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCW1AA,1,0,,

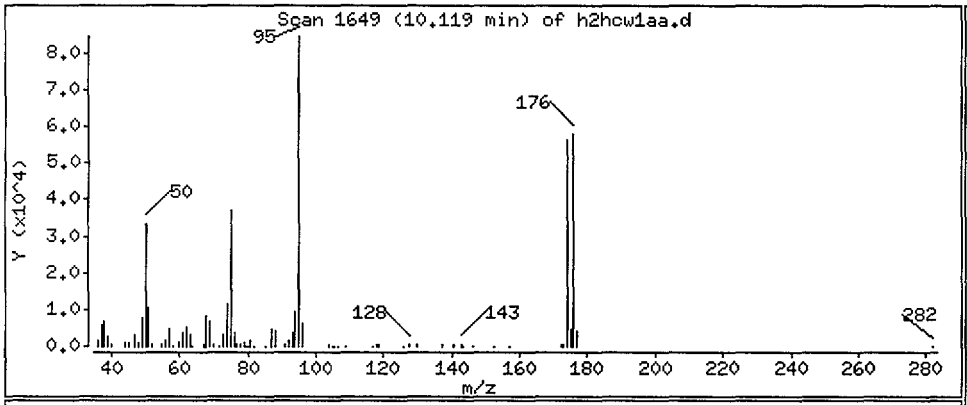
Operator: 22980

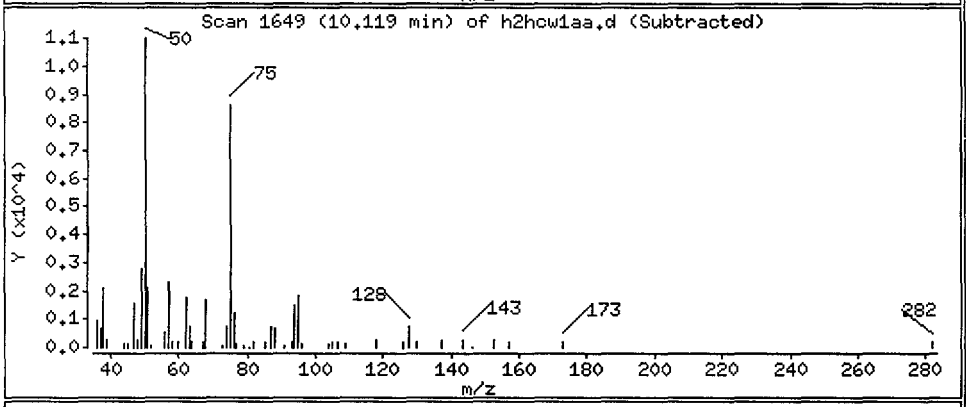
Column phase: J+W 624

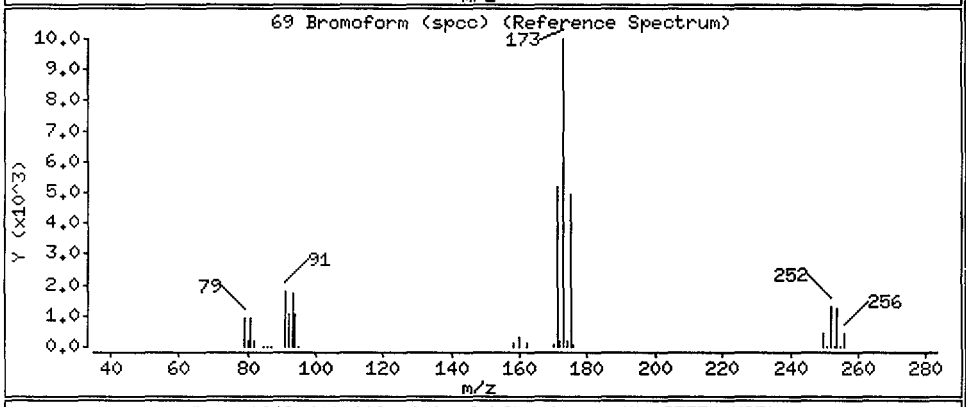
Column diameter: 0.18

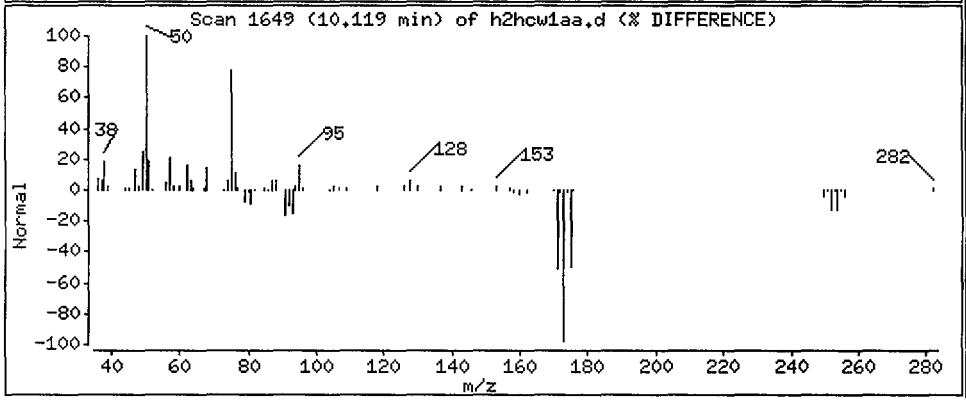
69 Bromoform (spcc)

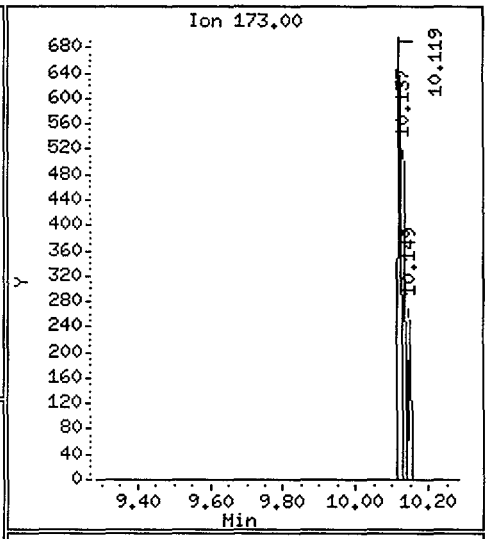
Concentration: 0.024178 ug

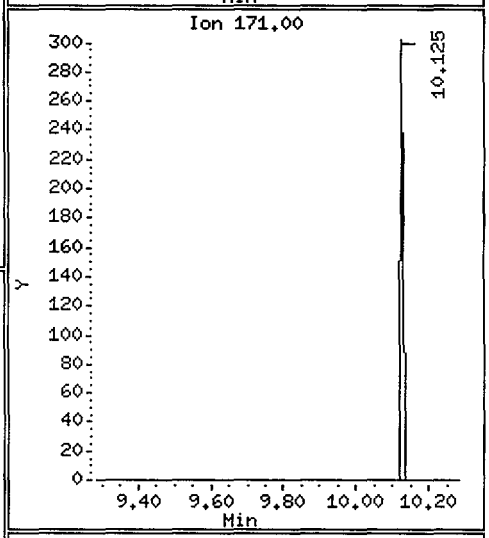


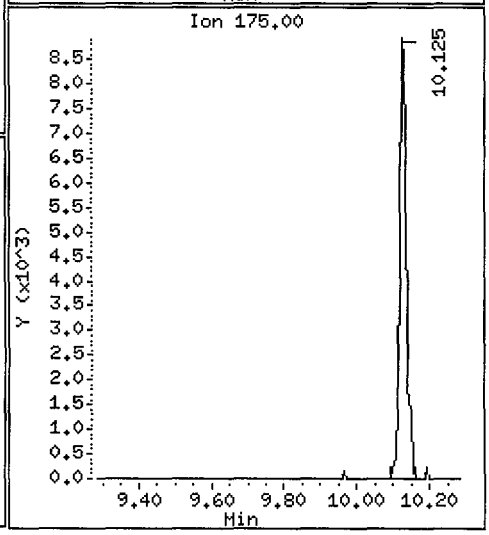












Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcw1aa.d
Report Date: 14-Apr-2006 17:03

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2hcw1aa.d
Lab Smp Id: H2HCW1AA Client Smp ID: G-3099-R3-VOST TENA
Inj Date : 07-APR-2006 12:22
Operator : 22980 Inst ID: mz.i
Smp Info : H2HCW1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.672	903908	10.000

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide					CAS #: 124-38-9		
0.908	5615501	62.1246963	1.5531	5	NIST05.1	80	1

cor

JW 4.14.06

Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcw1aa.d

Date : 07-APR-2006 12:22

Client ID: G-3099-R3-VOST TENA

Instrument: mz.i

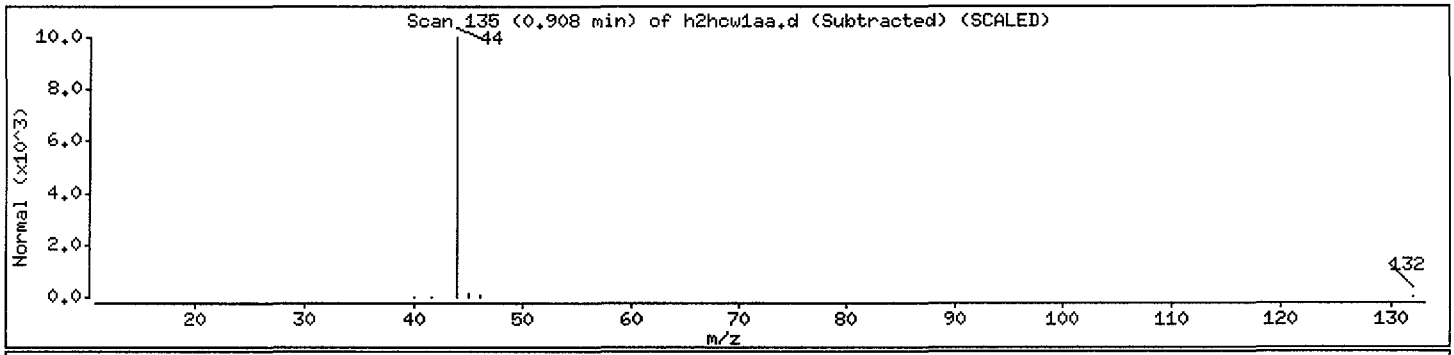
Sample Info: H2HCW1AA,1,0,,

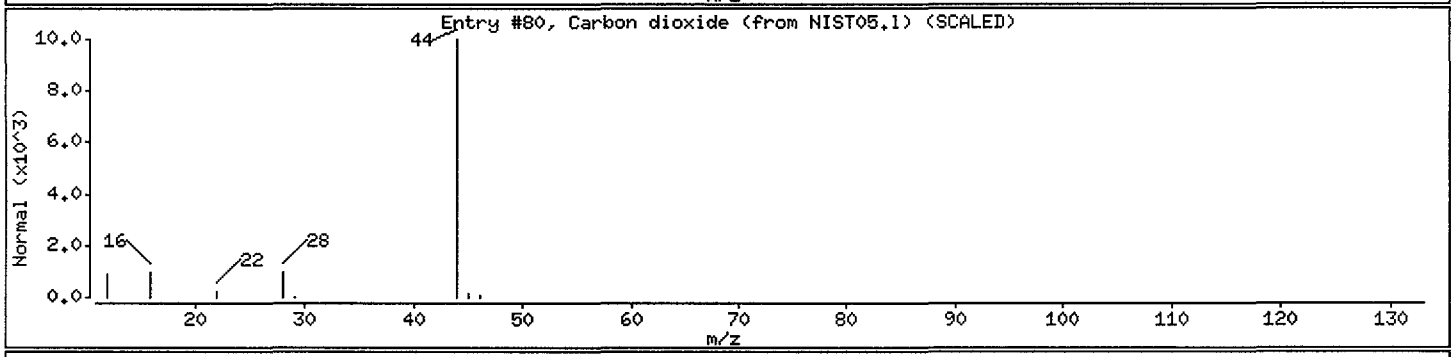
Operator: 22980

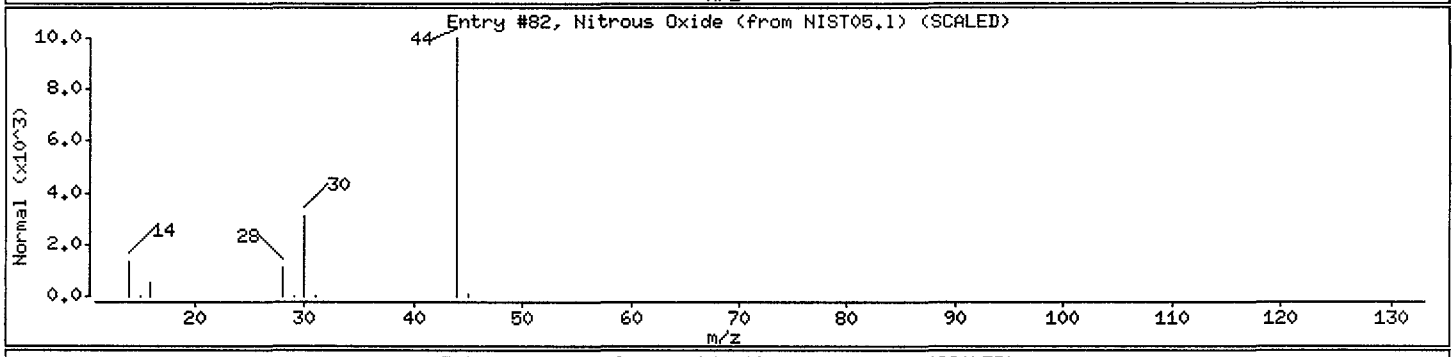
Column phase: J+W 624

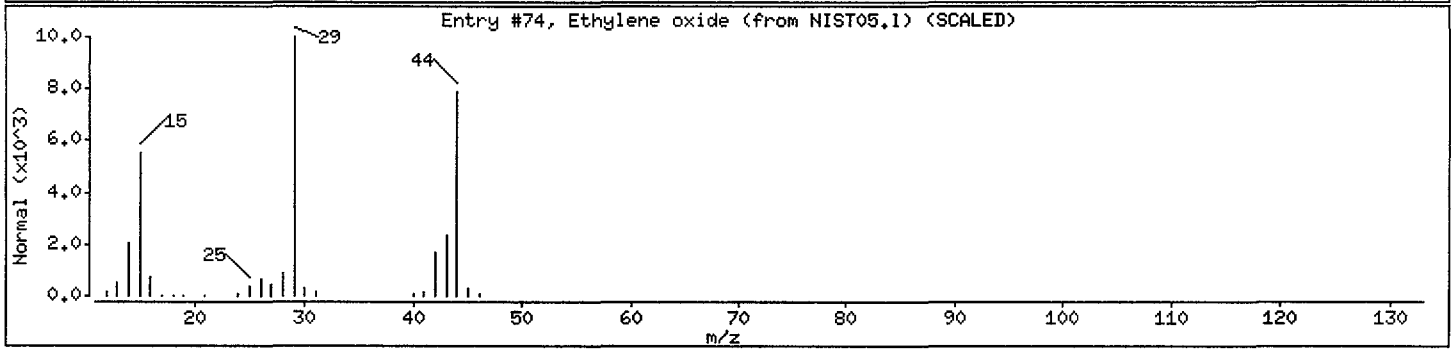
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.l	80	5	CO2	44
Nitrous Oxide	10024-97-2	NIST05.l	82	3	N2O	44
Ethylene oxide	75-21-8	NIST05.l	74	2	C2H4O	44









STL Knoxville - ACS

Client Sample ID: G-3100-R3-VOST TENAX TB

GC/MS Volatiles

Lot-Sample #...: H6D030169-034 **Work Order #...:** H2HCX1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.092 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.023 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3100-R3-VOST TENAX TB

GC/MS Volatiles

Lot-Sample #...: H6D030169-034 **Work Order #...:** H2HCX1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.013 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	106	(50 - 134)
1,2-Dichloroethane-d4	99	(50 - 134)
Toluene-d8	96	(57 - 127)
Bromofluorobenzene	82	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3100-R3-VOST TENAX TB

GC/MS Volatiles

Lot-Sample #: H6D030169-034 **Work Order #:** H2HCX1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /chem/gcms/mz.i/Z040706.b/h2hcx1aa.d
Report Date: 07-Apr-2006 12:15

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040706.b/h2hcx1aa.d
Lab Smp Id: H2HCX1AA Client Smp ID: G-3100-R3-VOST TENA
Inj Date : 07-APR-2006 11:58
Operator : 22980 Inst ID: mz.i
Smp Info : H2HCX1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 09:40 gosss Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.675	5.676	(1.000)	849416	10.0000	
* 2 Chlorobenzene-d5	119	8.935	8.937	(1.000)	176386	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.490	11.492	(1.000)	231562	10.0000	
$ 4 Dibromofluoromethane	113	4.829	4.831	(0.851)	144416	10.6105	0.26526
$ 5 1,2-Dichloroethane-d4	65	5.237	5.238	(0.923)	116410	9.89059	0.24726
$ 6 Toluene-d8	98	7.463	7.465	(0.835)	740920	9.56013	0.23900
$ 7 4-Bromofluorobenzene	95	10.128	10.129	(0.881)	191300	8.19164	0.20479
15 Bromomethane	94	1.416	1.418	(0.250)	687	0.91016	0.022754
20 1,1-Dichloroethene (ccc)	96	2.073	2.069	(0.365)	846	0.04583	0.0011457
22 Acetone	43	2.116	2.123	(0.373)	568	3.36522	0.084130
23 *Iodomethane	142	2.189	2.184	(0.386)	306	0.53607	0.013402
27 Methylene Chloride	84	2.511	2.513	(0.443)	2055	0.14467	0.0036168
39 *THF	42	4.537	4.532	(0.800)	1187	0.58914	0.014728
45 1,2-Dichloroethane	62	5.681	5.335	(1.001)	13286	0.74903	0.018726
53 4-Methyl-2-pentanone	43	7.463	7.386	(1.315)	5710	0.76988	0.019247
55 trans-1,3-Dichloropropene	75	8.102	7.793	(0.907)	115	0.63250	0.015812

JMW 4-14-06

see reprint for (M)

Data File: /chem/gcms/mz.i/Z040706.b/h2hcx1aa.d
Report Date: 07-Apr-2006 12:15

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
69 Bromoform (spcc)	173	10.134	9.782	(1.134)	530	0.98969	0.024742

DLW 4-14-06

Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcx1aa.d
Report Date: 14-Apr-2006 16:47

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2hcx1aa.d
Lab Smp Id: H2HCX1AA Client Smp ID: G-3100-R3-VOST TENA
Inj Date : 07-APR-2006 11:58
Operator : 22980 Inst ID: mz.i
Smp Info : H2HCX1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.675	5.676	(1.000)	849416	10.0000	
* 2 Chlorobenzene-d5	119	8.935	8.937	(1.000)	176386	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.490	11.492	(1.000)	231562	10.0000	
$ 4 Dibromofluoromethane	113	4.829	4.831	(0.851)	144416	10.6104	0.26526
$ 5 1,2-Dichloroethane-d4	65	5.237	5.238	(0.923)	116410	9.89055	0.24726
$ 6 Toluene-d8	98	7.463	7.465	(0.835)	740920	9.56014	0.23900
$ 7 4-Bromofluorobenzene	95	10.128	10.129	(0.881)	191300	8.19163	0.20479
15 Bromomethane	94	1.416	1.418	(0.250)	687	0.91009	0.022752
20 1,1-Dichloroethene (ccc)	96	2.073	2.069	(0.365)	846	0.04583	0.0011456
22 Acetone	43	2.116	2.123	(0.373)	2294	3.69533	0.092383(M)
23 *Iodomethane	142	2.189	2.184	(0.386)	306	0.53603	0.013401
27 Methylene Chloride	84	2.511	2.513	(0.443)	2055	0.14466	0.0036164
39 *THF	42	4.537	4.532	(0.800)	1187	0.58897	0.014724

Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcx1aa.d
Report Date: 14-Apr-2006 16:47

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/gcms/mz.i/Z040706.b/h2hcx1aa.d
Report Date: 07-Apr-2006 12:15

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2hcx1aa.d
Lab Smp Id: H2HCX1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 07:35
Client Smp ID: G-3100-R3-VOST TENA
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	952581	476290	1905162	849416	-10.83
2 Chlorobenzene-d5	164101	82050	328202	176386	7.49
3 1,4 Dichlorobenze	204390	102195	408780	231562	13.29

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.68	5.18	6.18	5.67	-0.03
2 Chlorobenzene-d5	8.94	8.44	9.44	8.94	-0.02
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	-0.01

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

Data File: /chem/gcms/mz.i/Z040706.b/h2hcx1aa.d
Report Date: 07-Apr-2006 12:15

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030169
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: H2HCX1AA
Client Smp ID: G-3100-R3-VOST TENA
Level: LOW
Operator: 22980
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allcmpds.spk
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

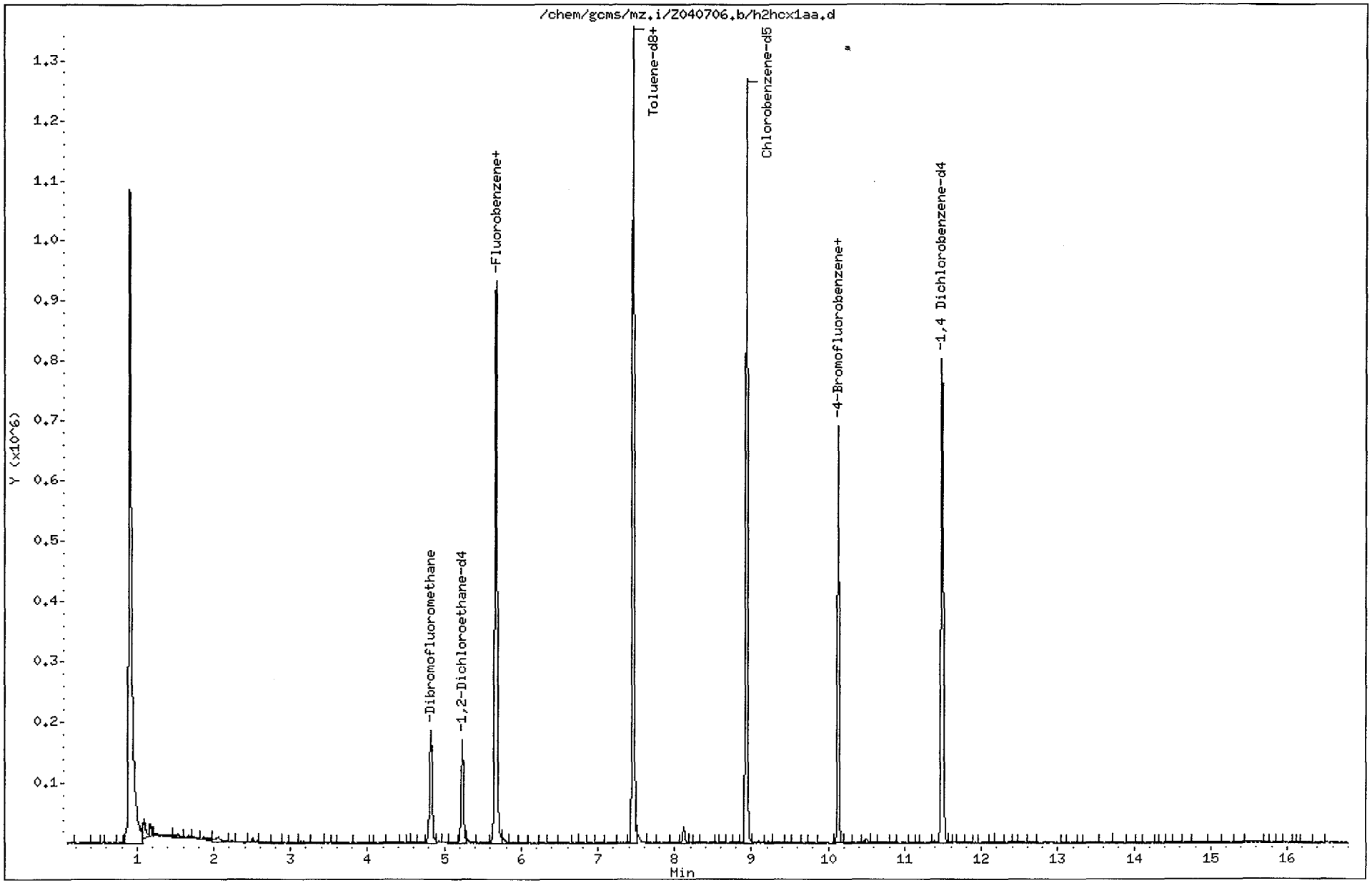
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.26526	106.11	50-150
$ 5 1,2-Dichloroethane	0.25000	0.24726	98.91	50-150
$ 6 Toluene-d8	0.25000	0.23900	95.60	50-150
$ 7 4-Bromofluorobenze	0.25000	0.20479	81.92	50-150

Data File: /chem/gcms/mz.i/Z040706.b/h2hcx1aa.d
Date : 07-APR-2006 11:58
Client ID: G-3100-R3-VOST TENA
Sample Info: H2HCX1AA,1,0,,

Instrument: mz.i

Operator: 22980
Column diameter: 0.18

Column phase: J+W 624



Data File: /chem/gcms/mz.i/Z040706.b/h2hcx1aa.d

Date : 07-APR-2006 11:58

Client ID: G-3100-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCX1AA,1,0,,

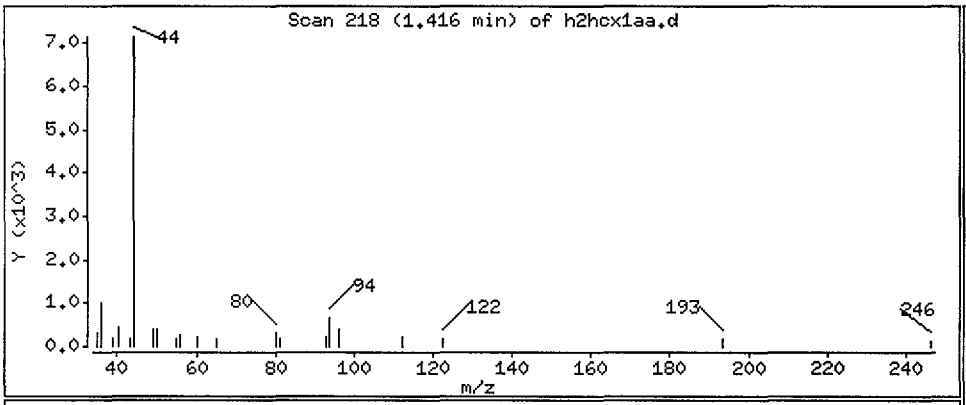
Operator: 22980

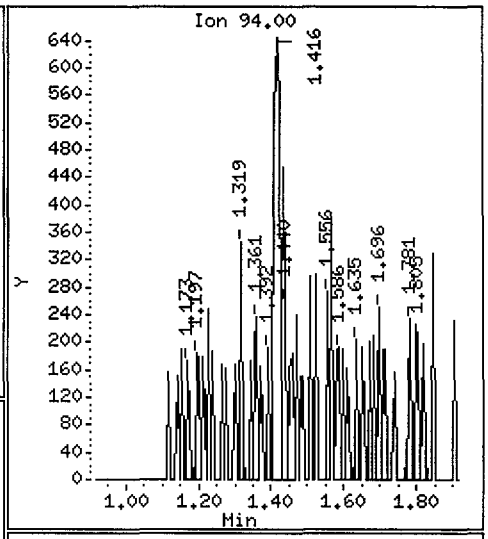
Column phase: J+W 624

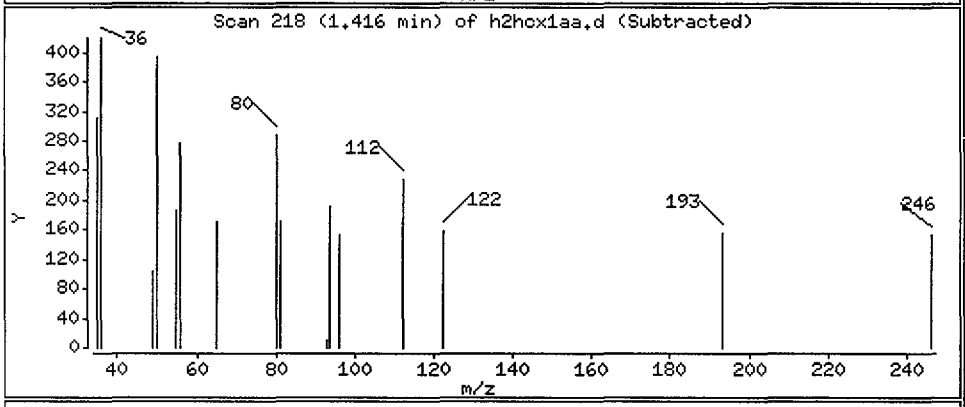
Column diameter: 0.18

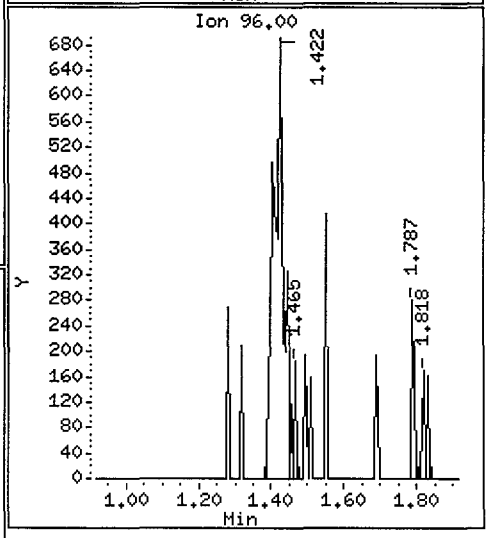
15 Bromomethane

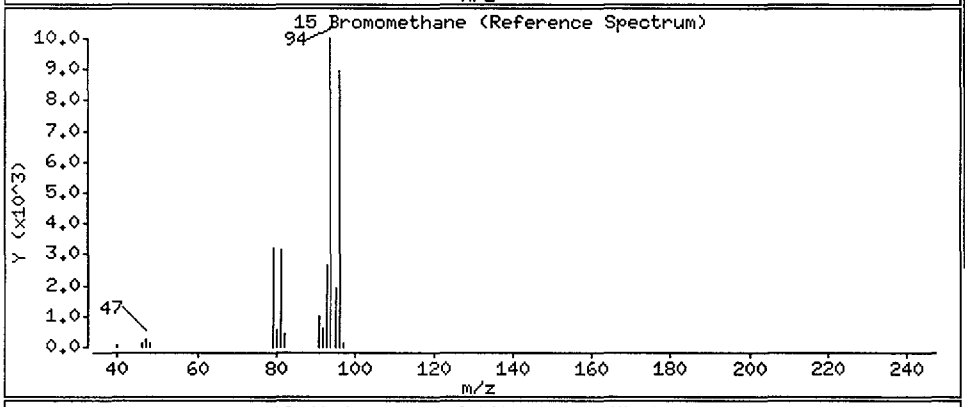
Concentration: 0.022754 ug

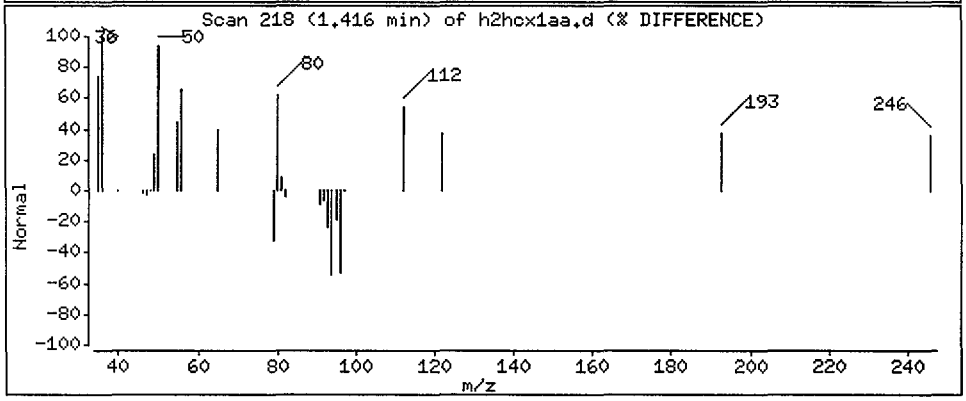












Data File: /chem/gcms/mz.i/Z040706.b/h2hcx1aa.d

Date : 07-APR-2006 11:58

Client ID: G-3100-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCX1AA,1,0,,

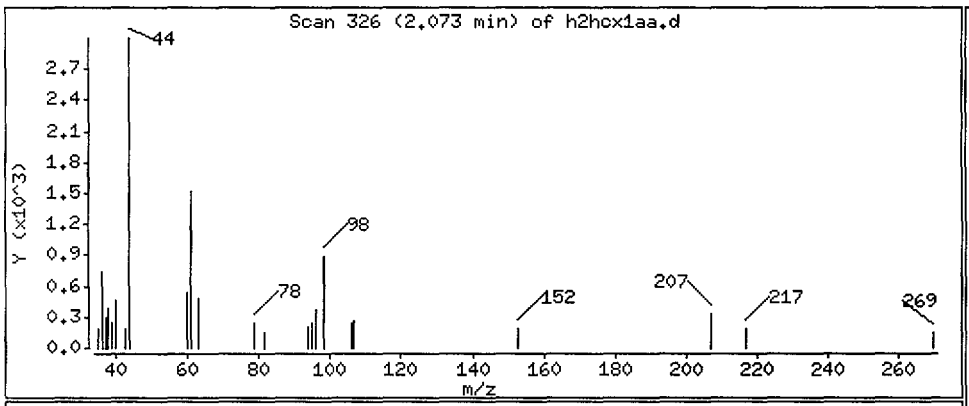
Operator: 22980

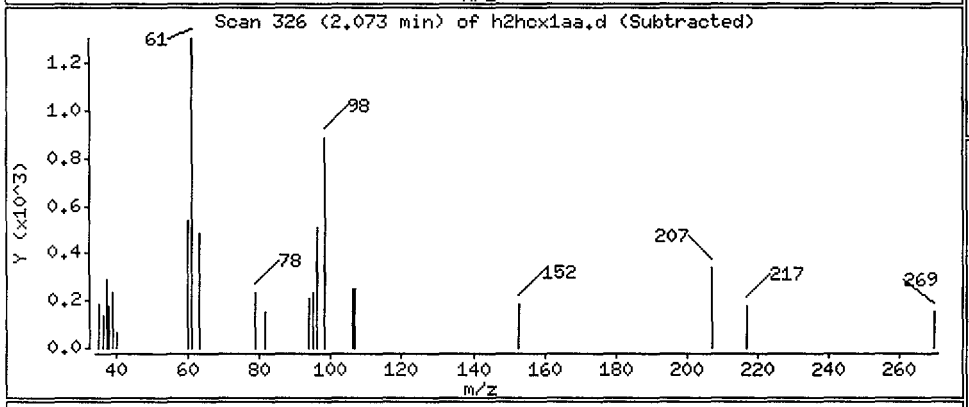
Column phase: J+W 624

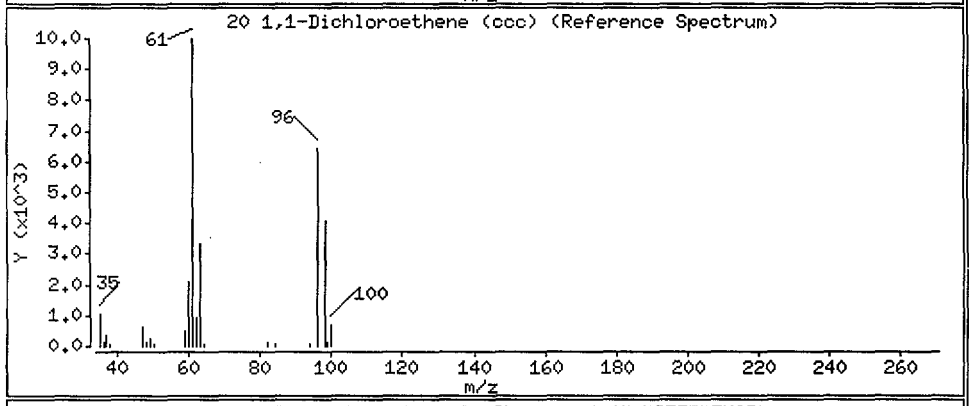
Column diameter: 0.18

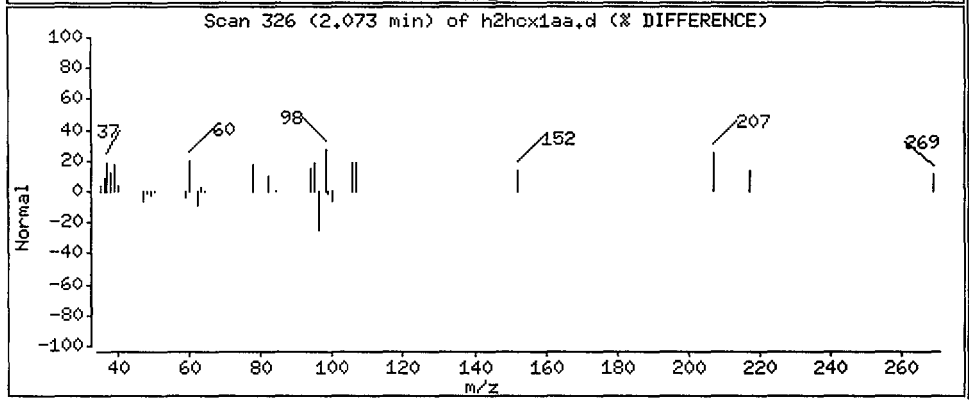
20 1,1-Dichloroethene (ccc)

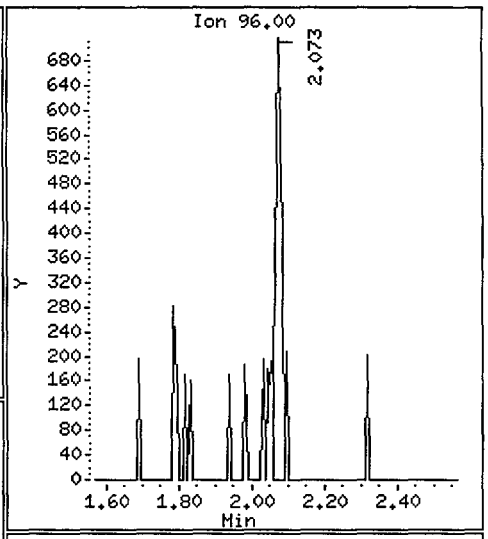
Concentration: 0.0011457 ug

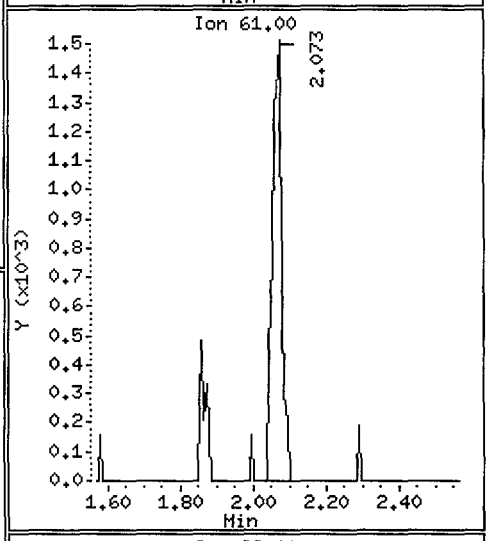


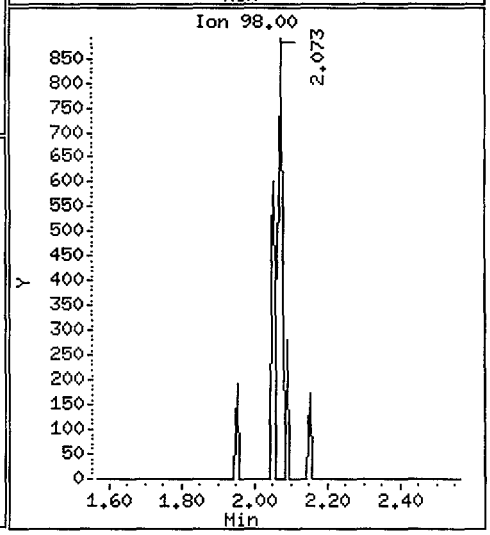












Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcx1aa.d

Date : 07-APR-2006 11:58

Client ID: G-3100-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCX1AA,1,0,,

Operator: 22980

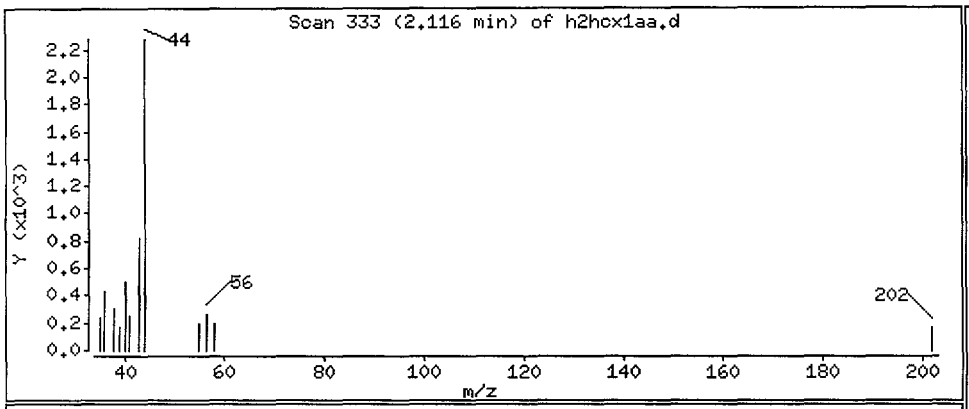
Column phase: J+W 624

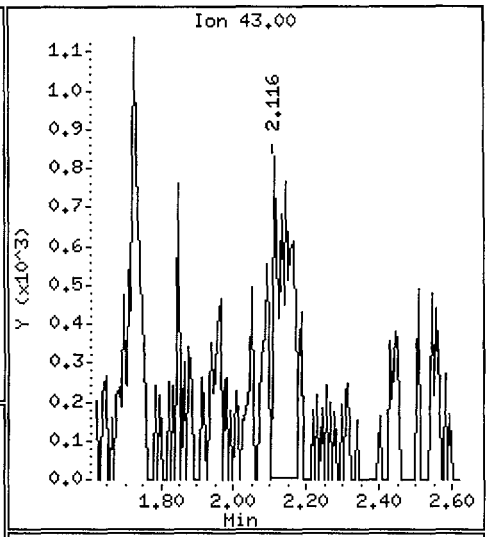
Column diameter: 0.18

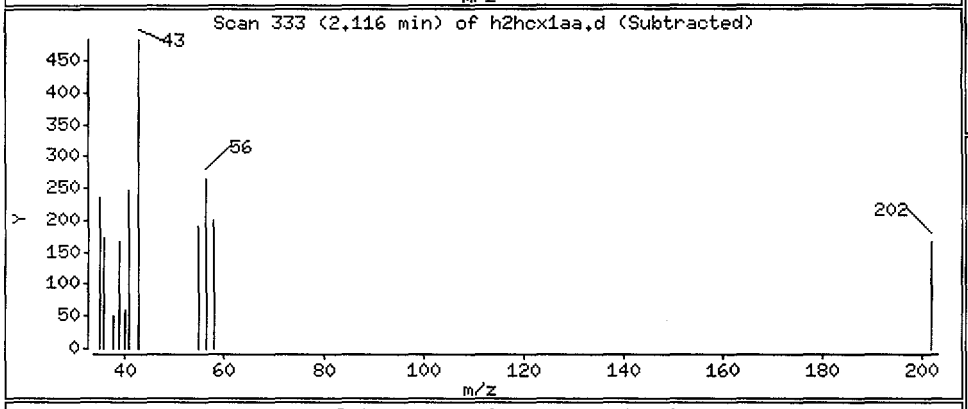
22 Acetone

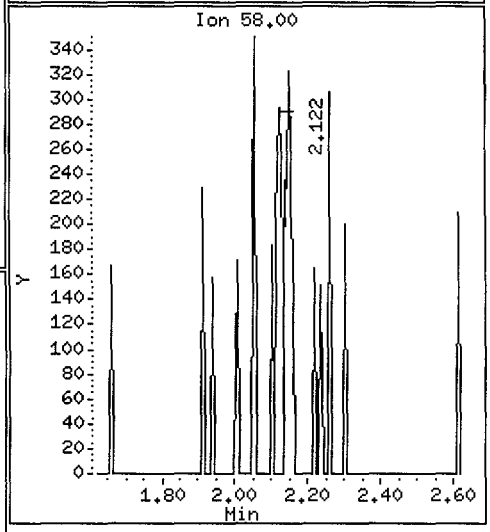
Concentration: 0.092383 ug

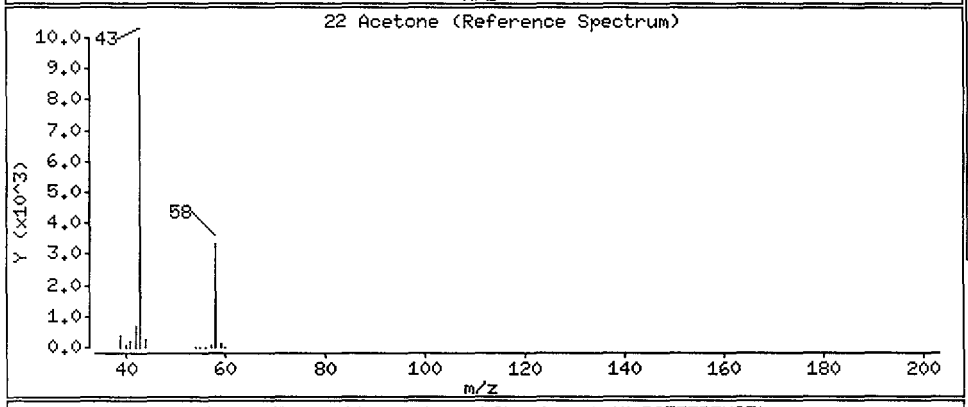
DLW 4-14-06 (1)

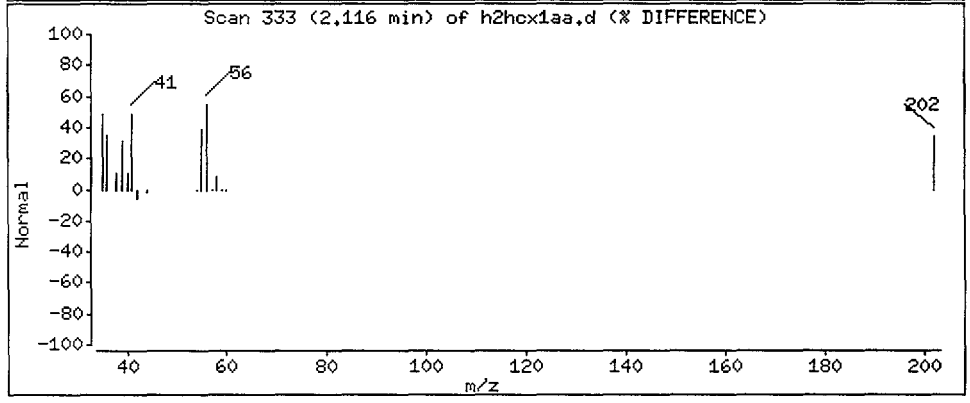












Data File: /chem/gcms/mz.i/Z040706.b/h2hcx1aa.d

Date : 07-APR-2006 11:58

Client ID: G-3100-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCX1AA,1,0,,

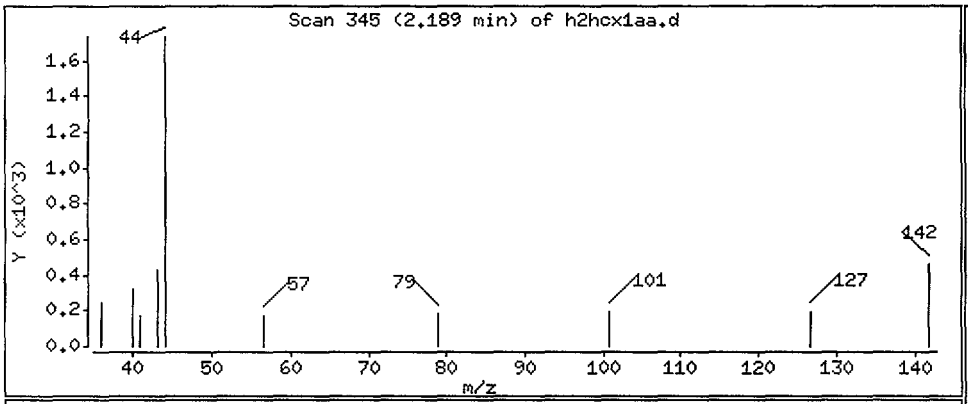
Operator: 22980

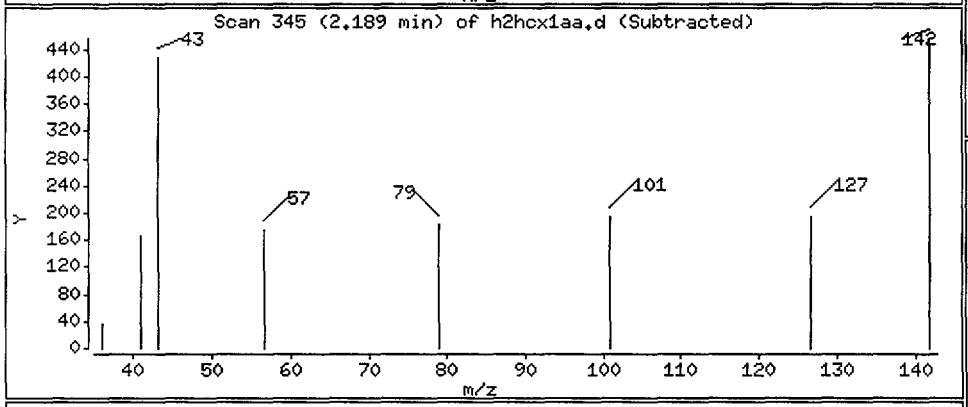
Column phase: J+W 624

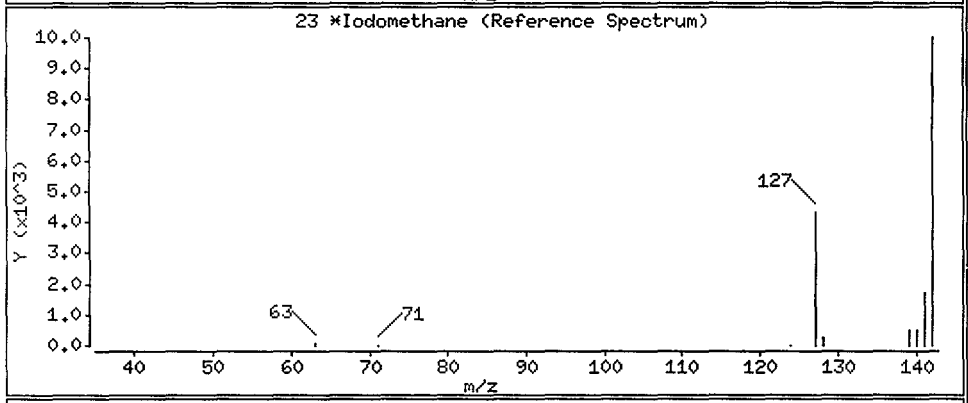
Column diameter: 0.18

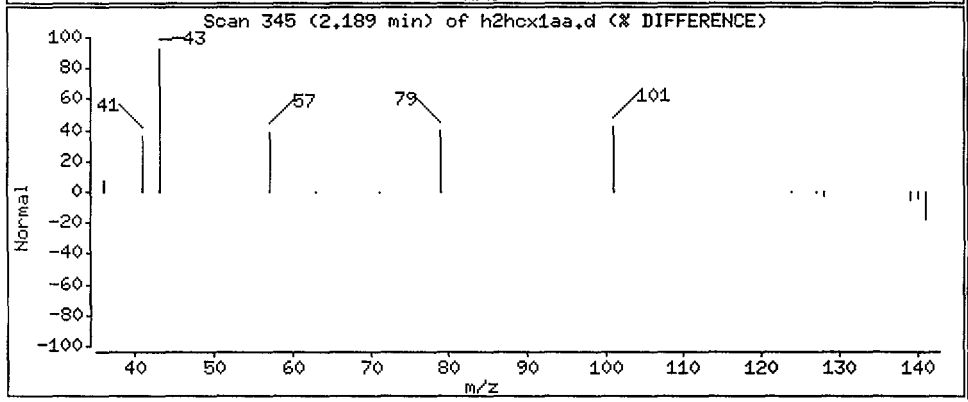
23 *Iodomethane

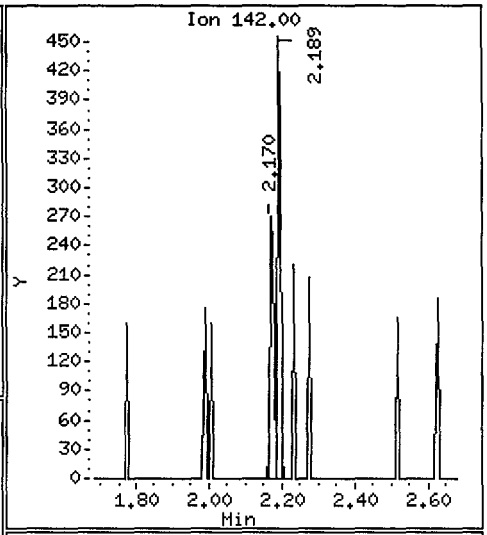
Concentration: 0.013402 ug

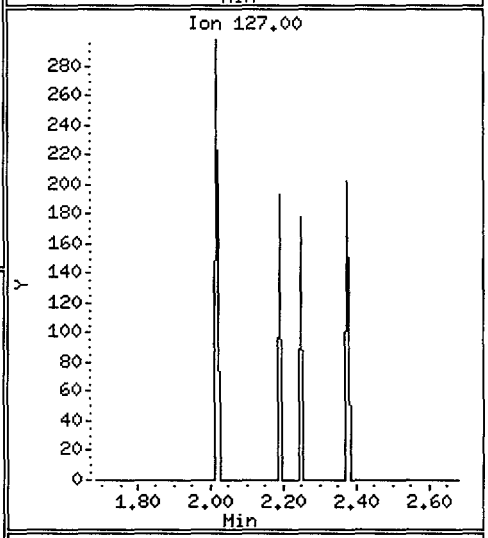


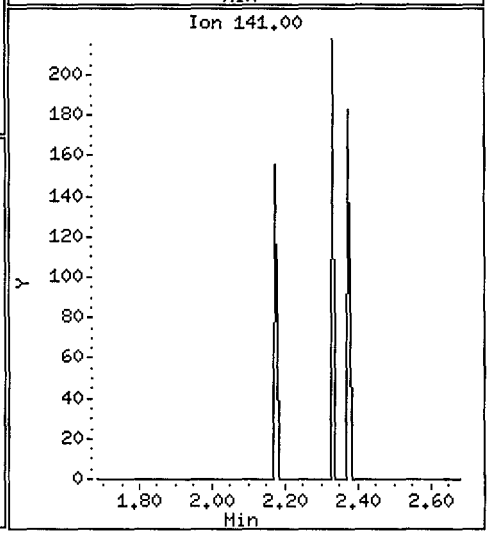












Data File: /chem/gcms/mz.i/Z040706.b/h2hcx1aa.d

Date : 07-APR-2006 11:58

Client ID: G-3100-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCX1AA,1,0,,

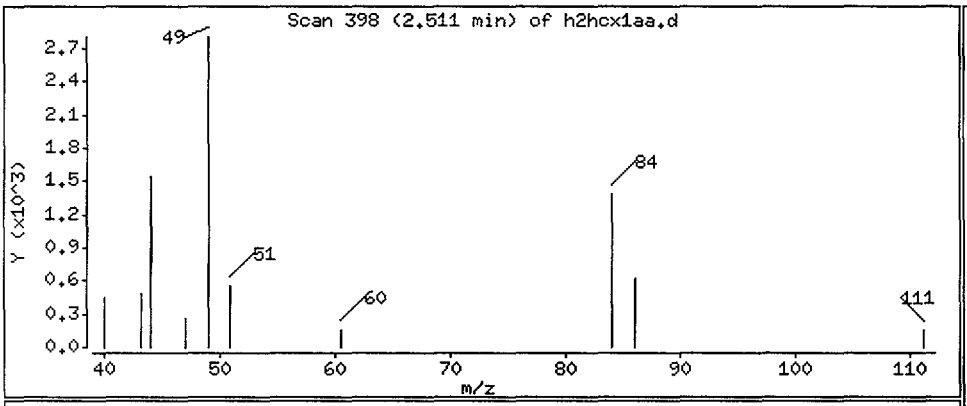
Operator: 22980

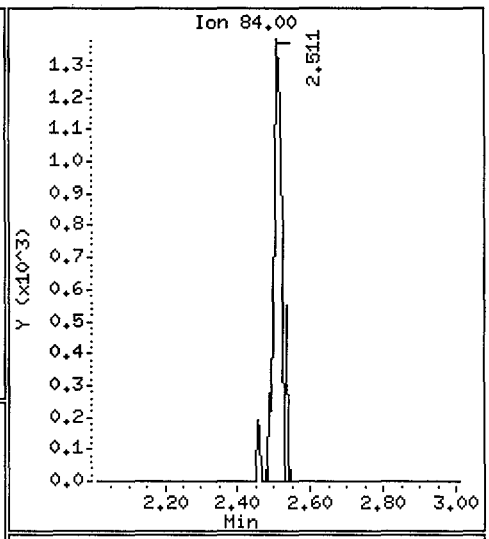
Column phase: J+W 624

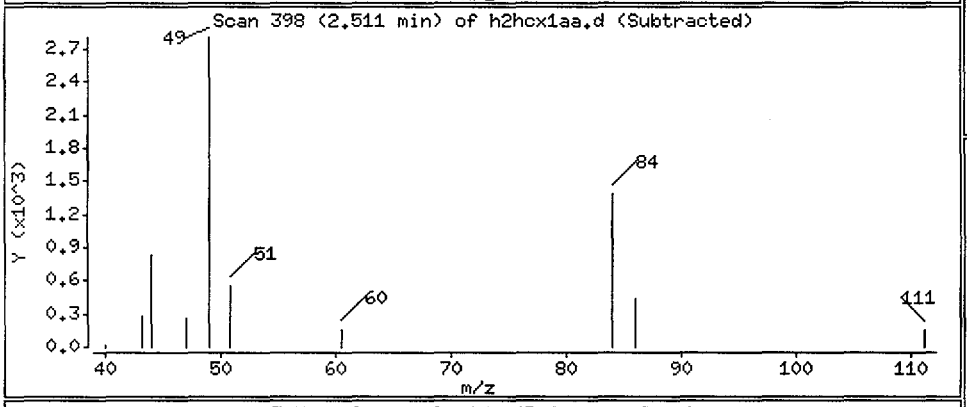
Column diameter: 0.18

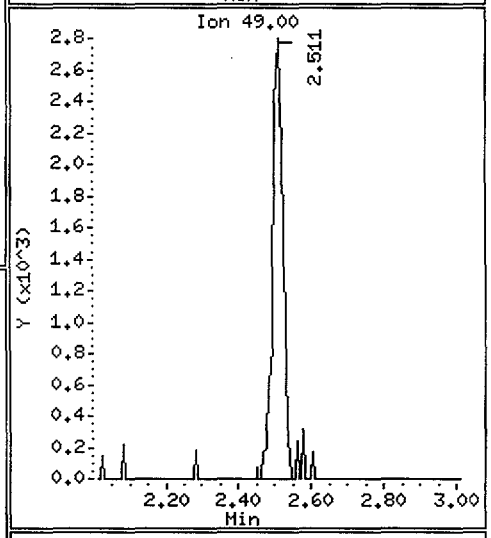
27 Methylene Chloride

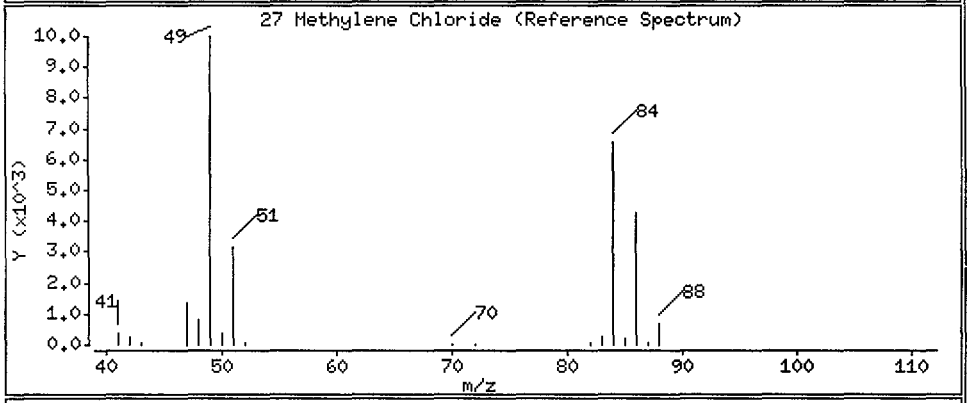
Concentration: 0.0036168 ug

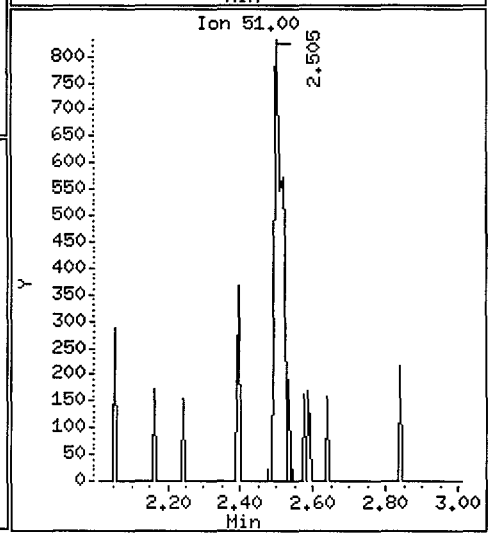


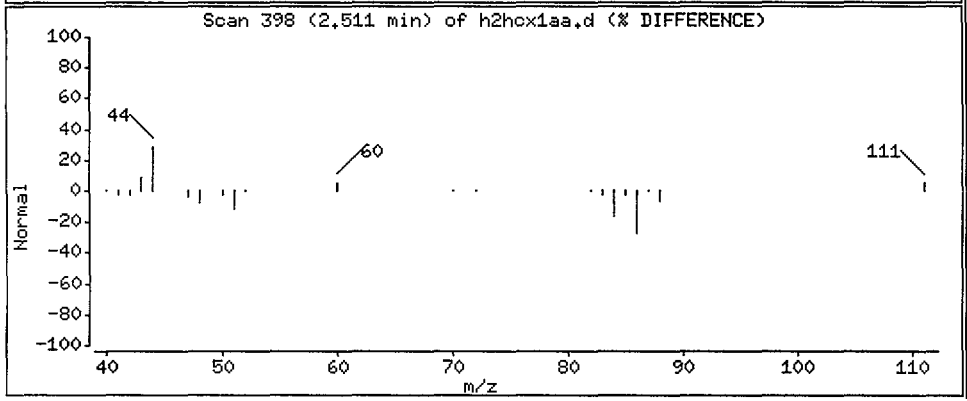












Data File: /chem/gcms/mz.i/Z040706.b/h2hcx1aa.d

Date : 07-APR-2006 11:58

Client ID: G-3100-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCX1AA,1,0,,

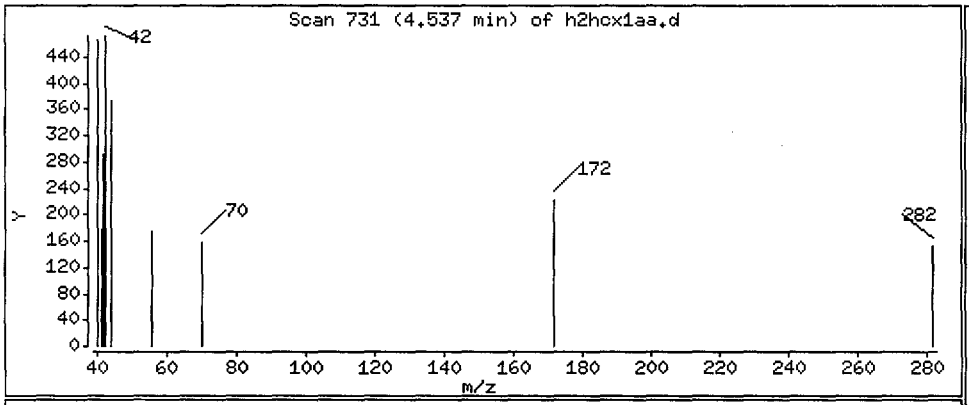
Operator: 22980

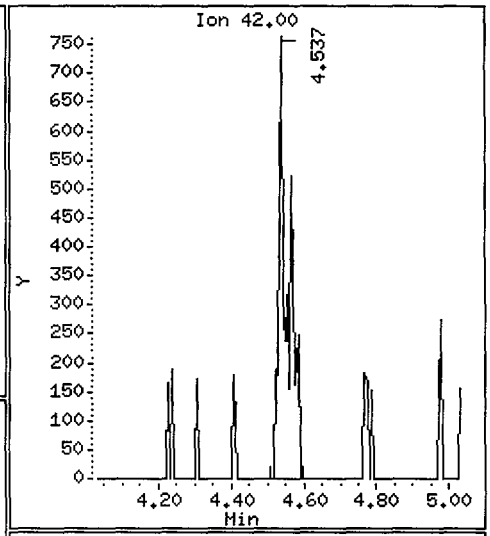
Column phase: J+W 624

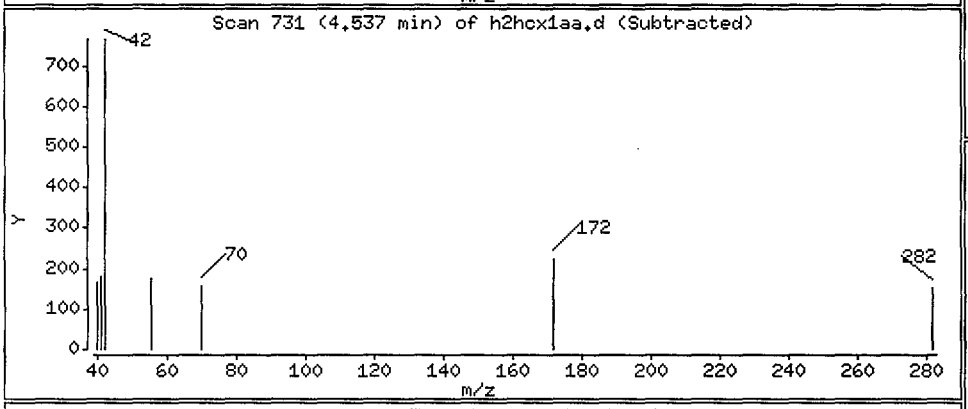
Column diameter: 0.18

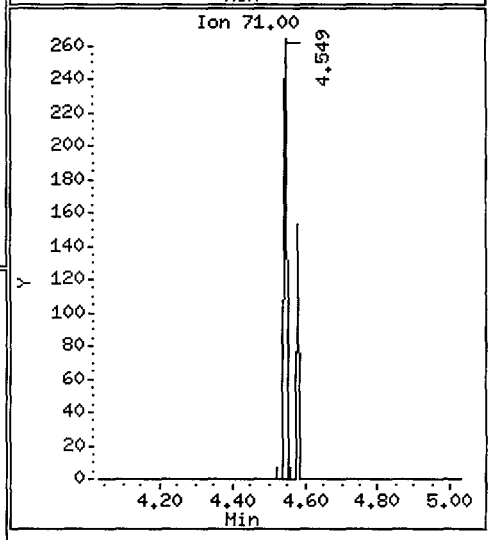
39 *THF

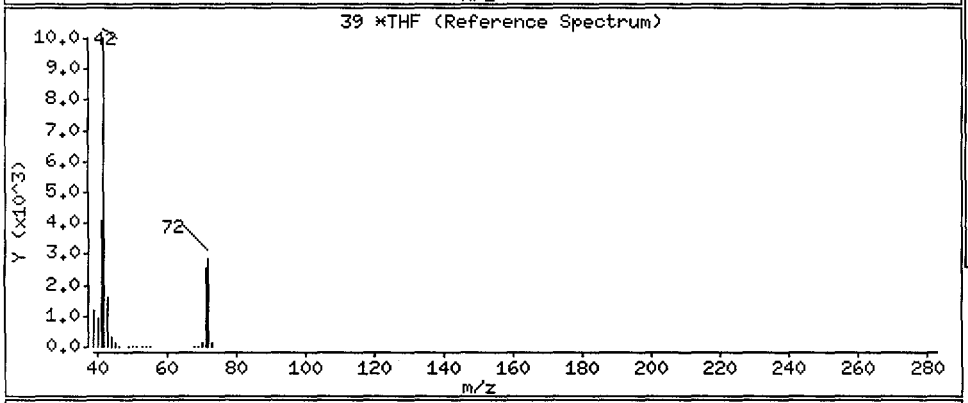
Concentration: 0.014728 ug

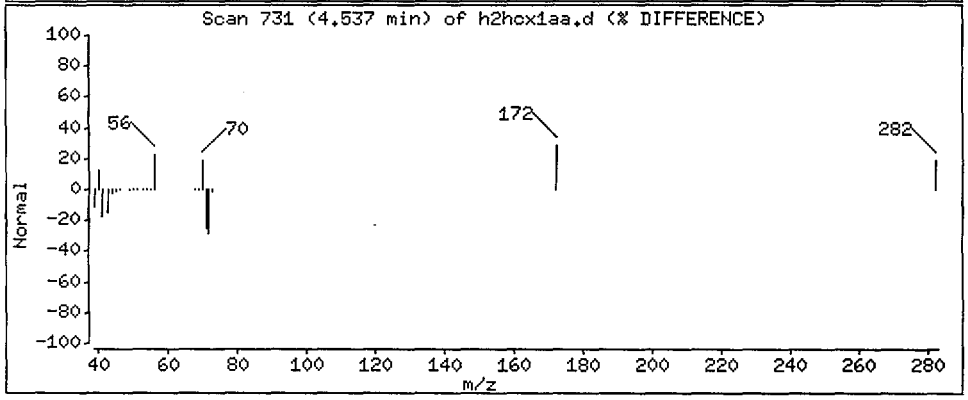












Data File: /chem/gcms/mz.i/Z040706.b/h2hcx1aa.d

Date : 07-APR-2006 11:58

Client ID: G-3100-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCX1AA,1,0,,

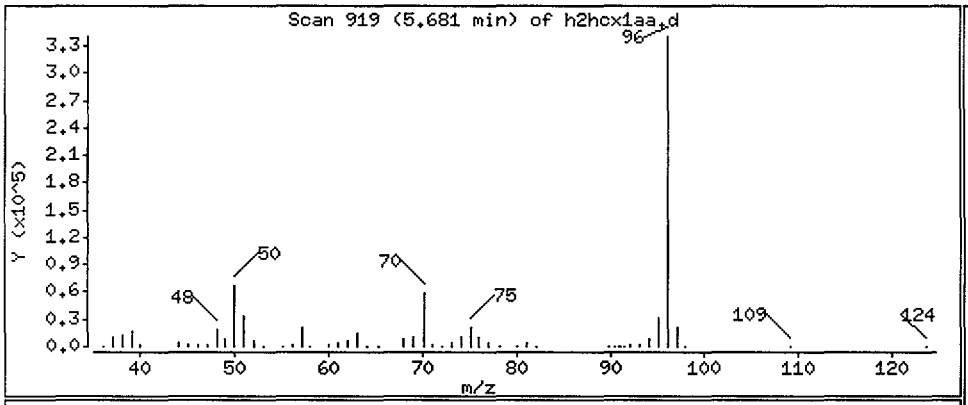
Operator: 22980

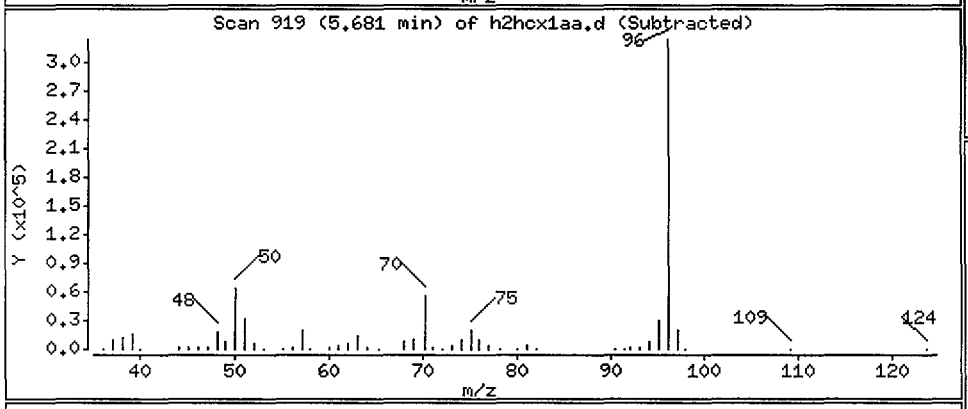
Column phase: J+W 624

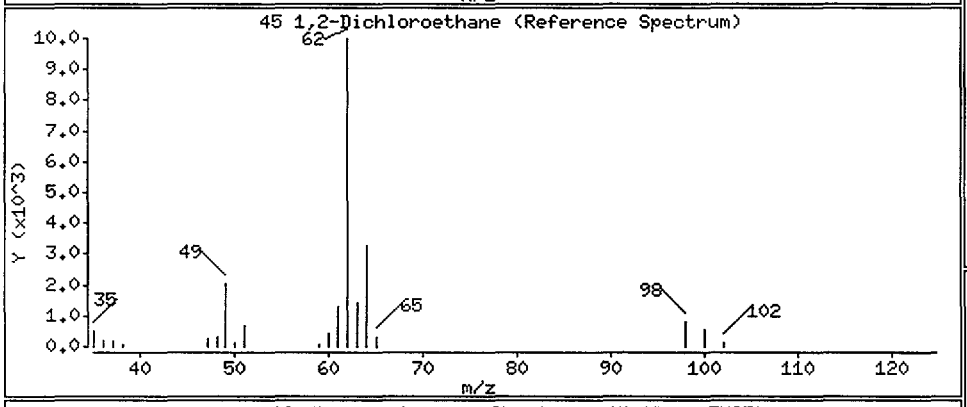
Column diameter: 0.18

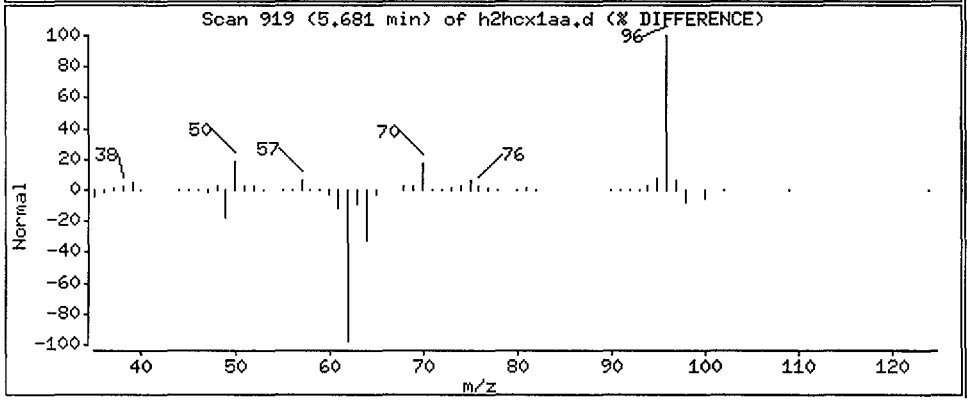
45 1,2-Dichloroethane

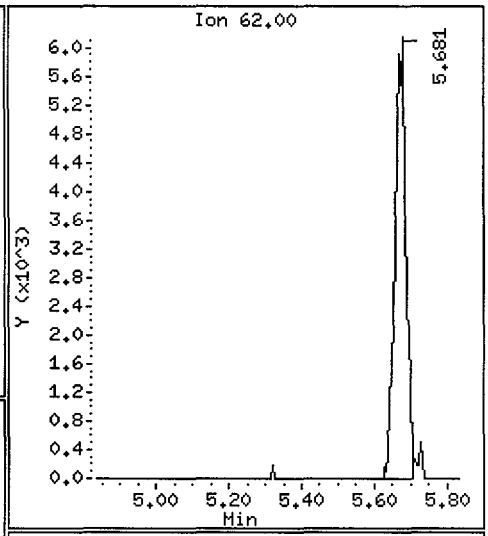
Concentration: 0.018726 ug

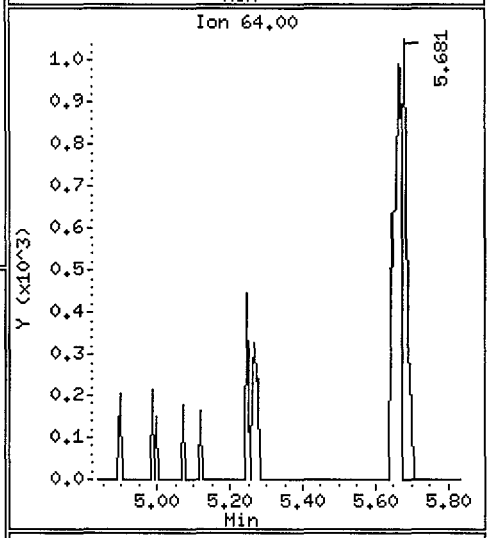


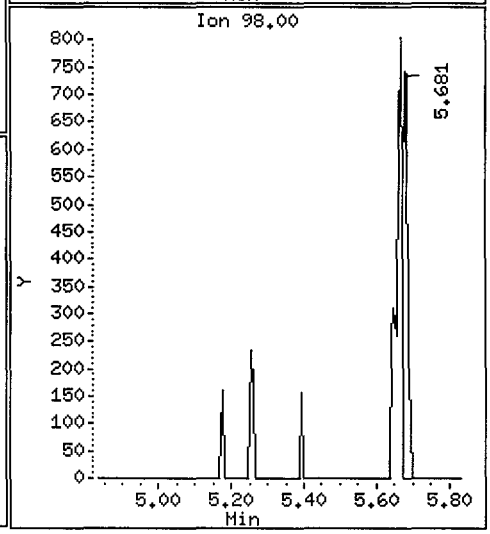












Data File: /chem/gcms/mz.i/Z040706.b/h2hcx1aa.d

Date : 07-APR-2006 11:58

Client ID: G-3100-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCX1AA,1,0,,

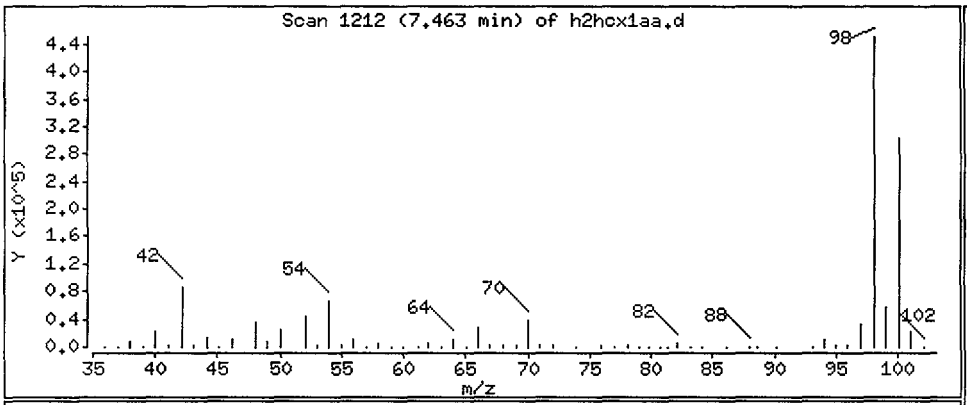
Operator: 22980

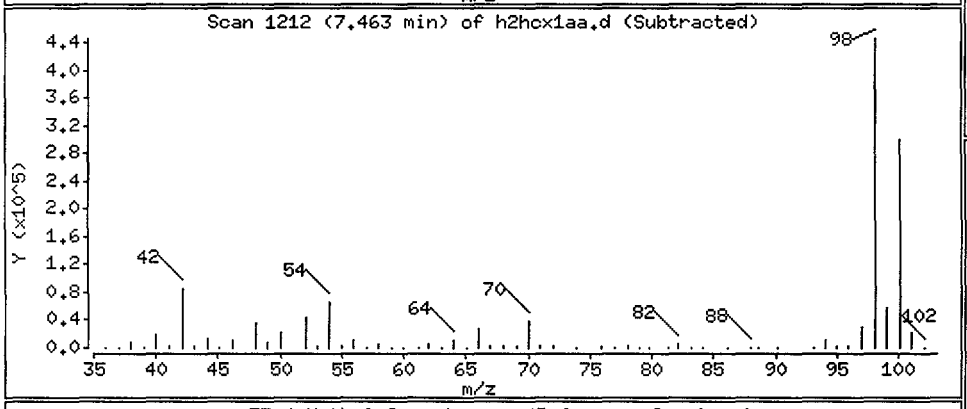
Column phase: J+W 624

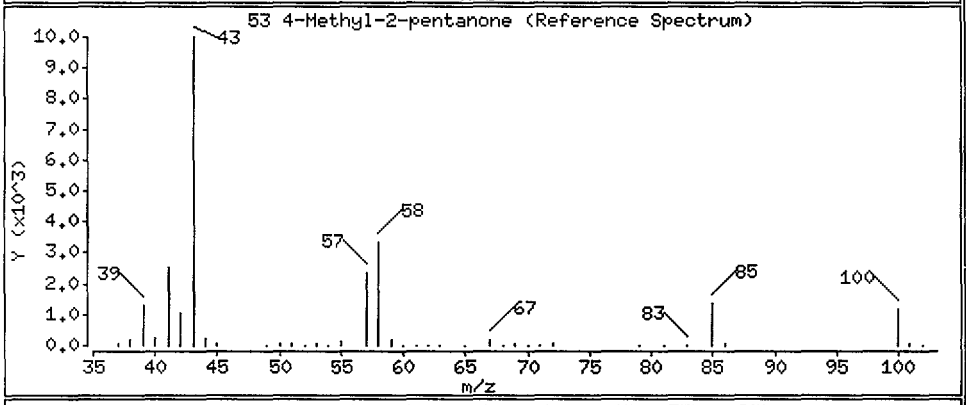
Column diameter: 0.18

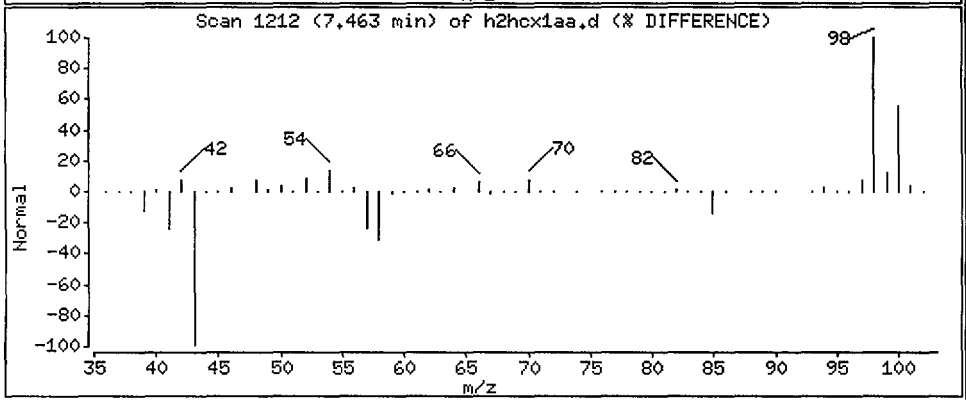
53 4-Methyl-2-pentanone

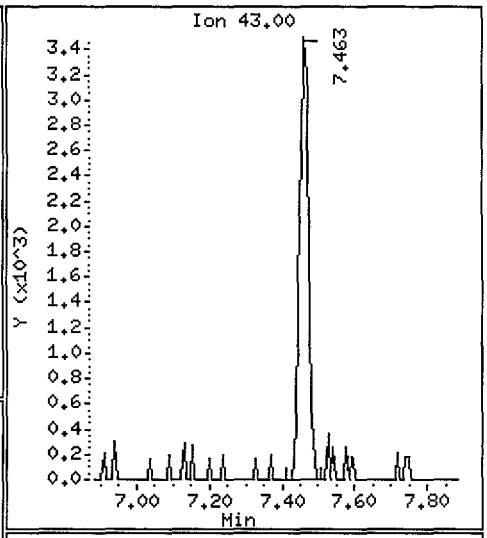
Concentration: 0.019247 ug

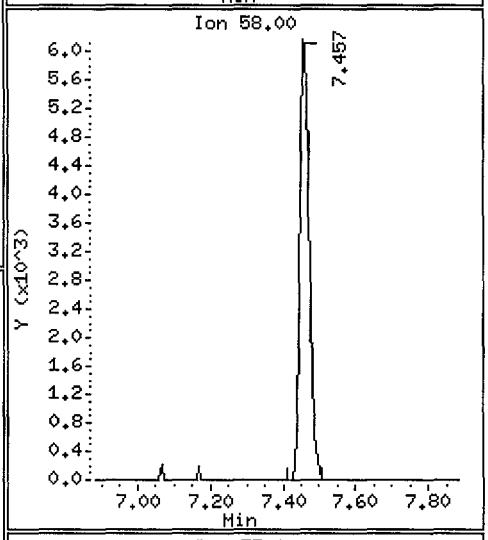


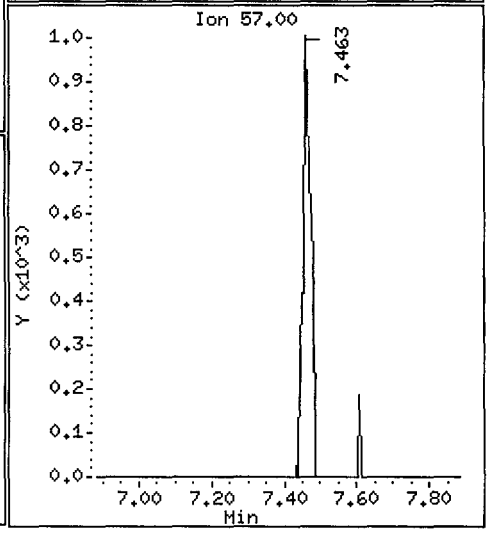












Data File: /chem/gcms/mz.i/Z040706.b/h2hcx1aa.d

Date : 07-APR-2006 11:58

Client ID: G-3100-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCX1AA,1,0,,

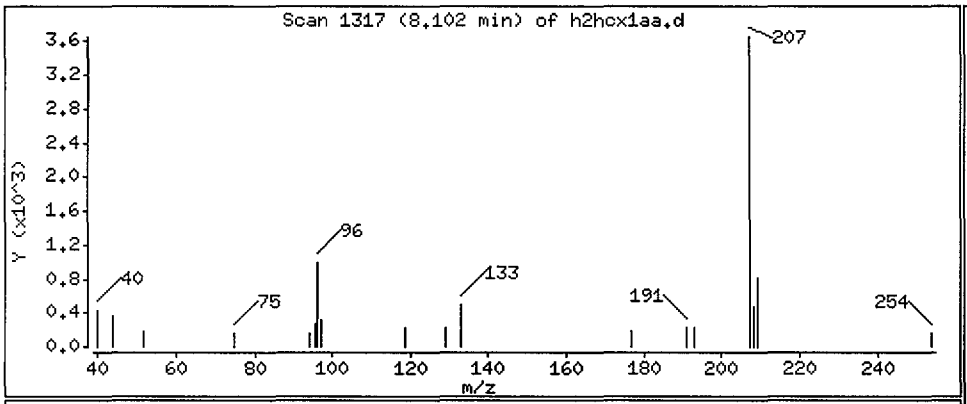
Operator: 22980

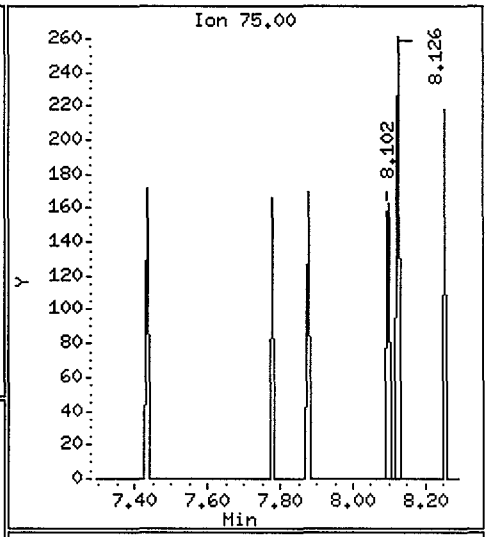
Column phase: J+W 624

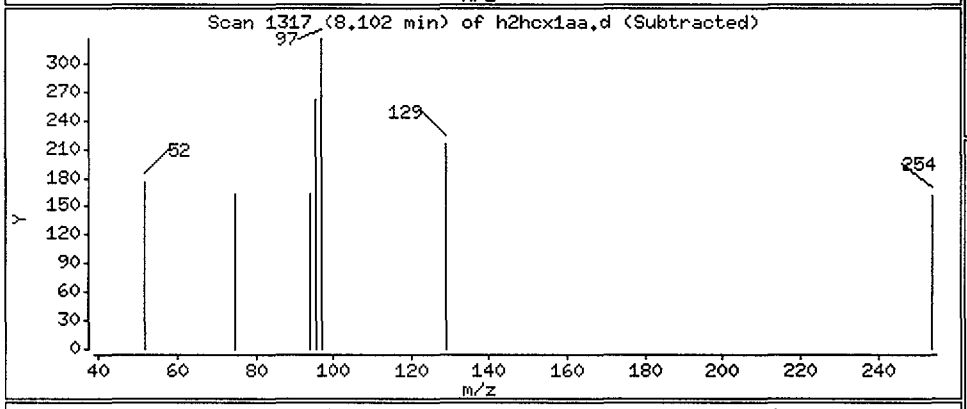
Column diameter: 0.18

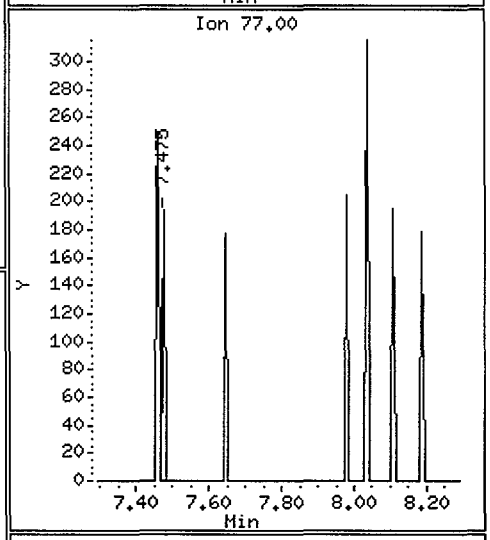
55 trans-1,3-Dichloropropene

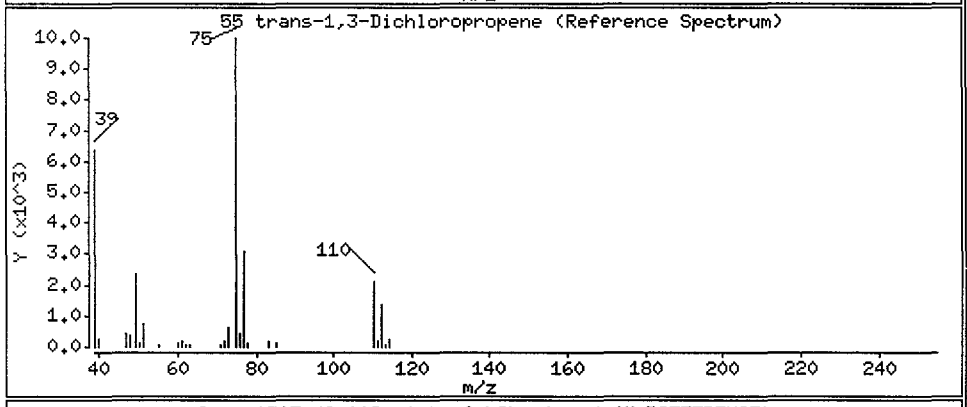
Concentration: 0.015812 ug

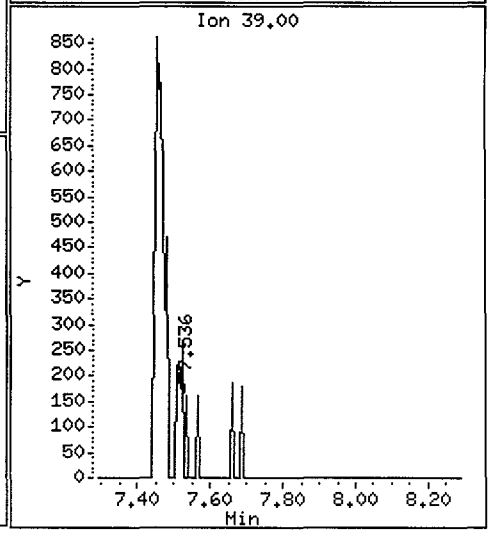


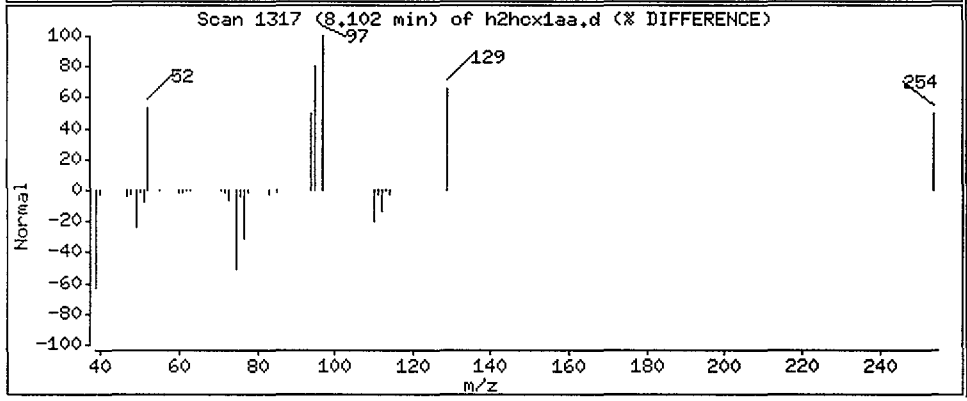












Data File: /chem/gcms/mz.i/Z040706.b/h2hcx1aa.d

Date : 07-APR-2006 11:58

Client ID: G-3100-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCX1AA,1,0,,

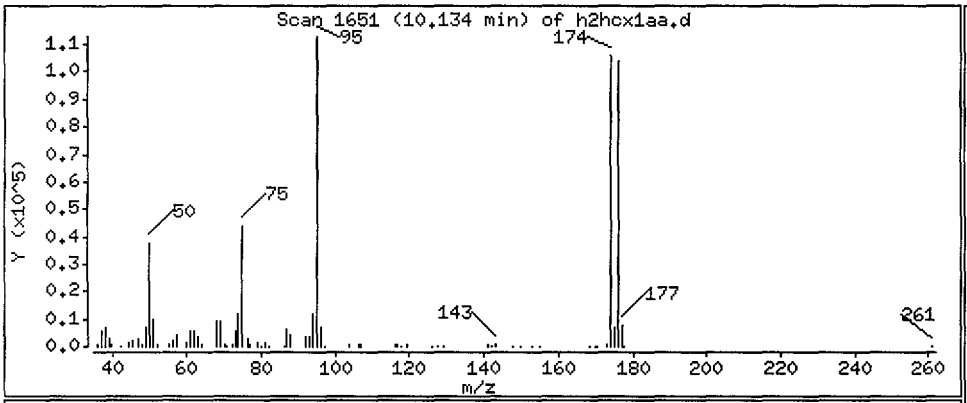
Operator: 22980

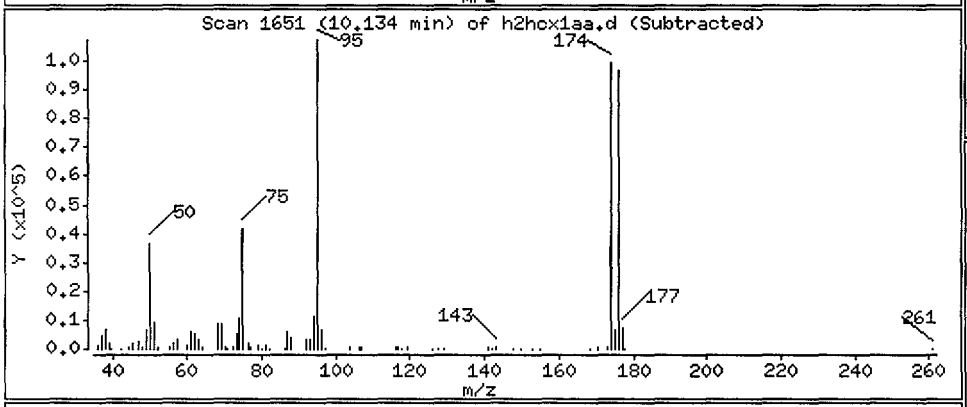
Column phase: J+W 624

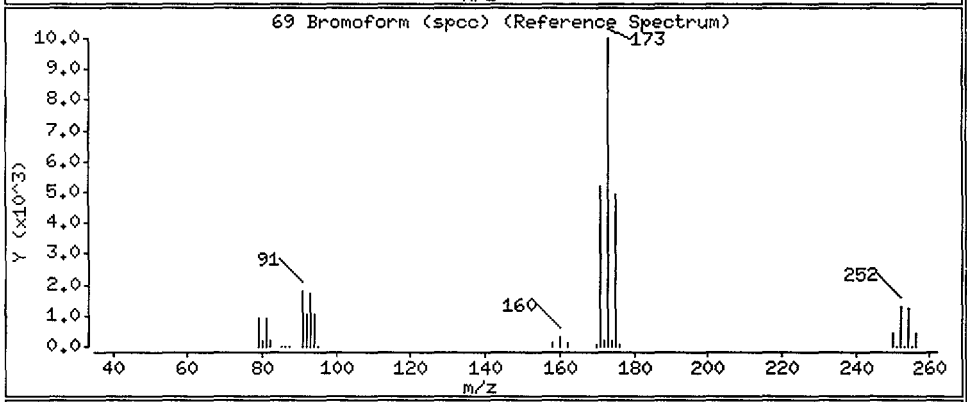
Column diameter: 0.18

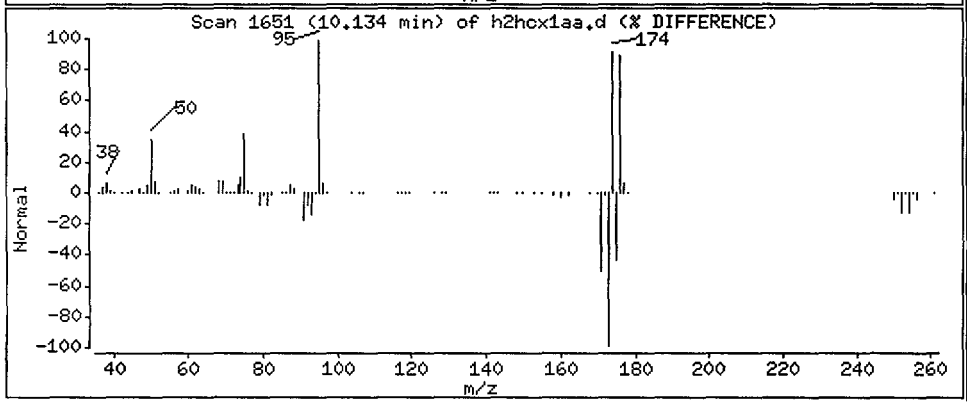
69 Bromoform (spcc)

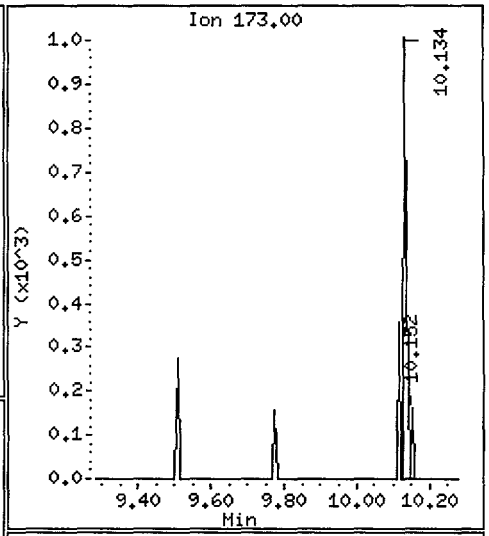
Concentration: 0.024742 ug

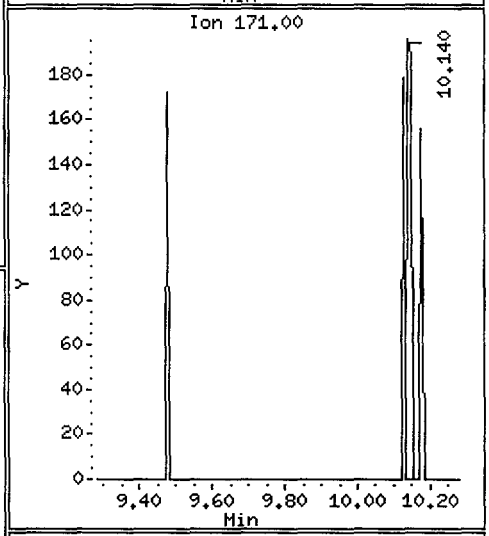


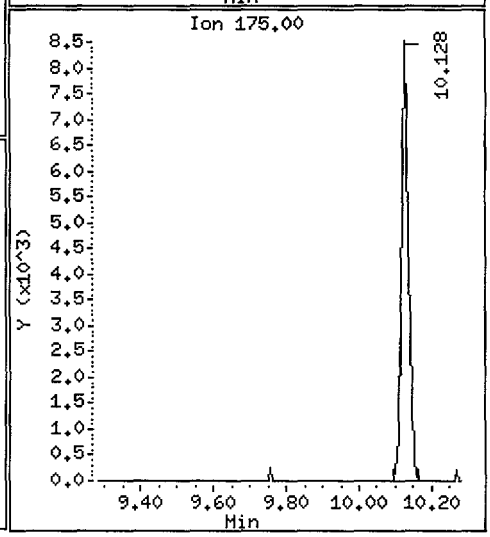












Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcx1aa.d
Report Date: 14-Apr-2006 17:03

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2hcx1aa.d
Lab Smp Id: H2HCX1AA Client Smp ID: G-3100-R3-VOST TENA
Inj Date : 07-APR-2006 11:58
Operator : 22980 Inst ID: mz.i
Smp Info : H2HCX1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.675	931425	10.000

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug)	QUAL	LIBRARY	LIB ENTRY	CPND #
0.905	1084553	11.6440186	0.29110	5	NIST05.1	80	1

Carbon dioxide CAS #: 124-38-9

CO2

Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcx1aa.d

Date : 07-APR-2006 11:58

Client ID: G-3100-R3-VOST TENA

Instrument: mz.i

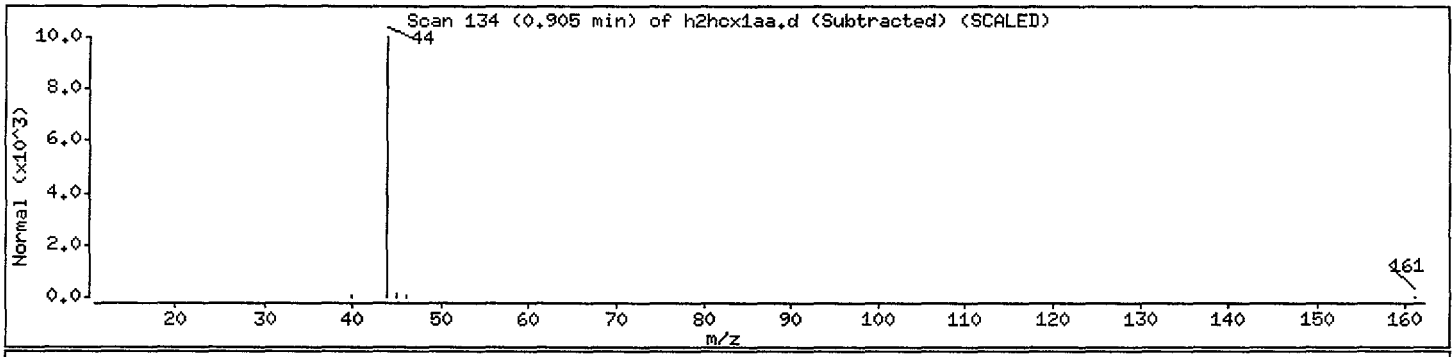
Sample Info: H2HCX1AA,1,0,,

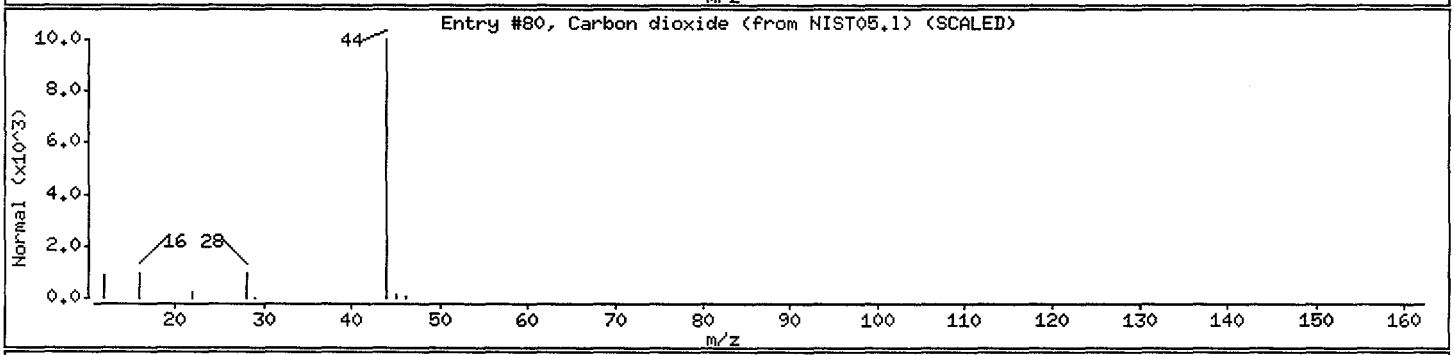
Operator: 22980

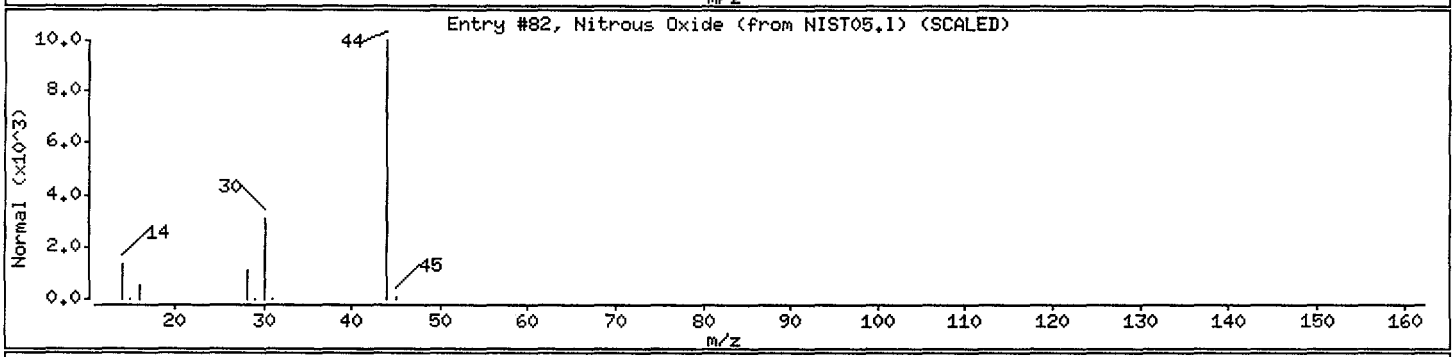
Column phase: J+W 624

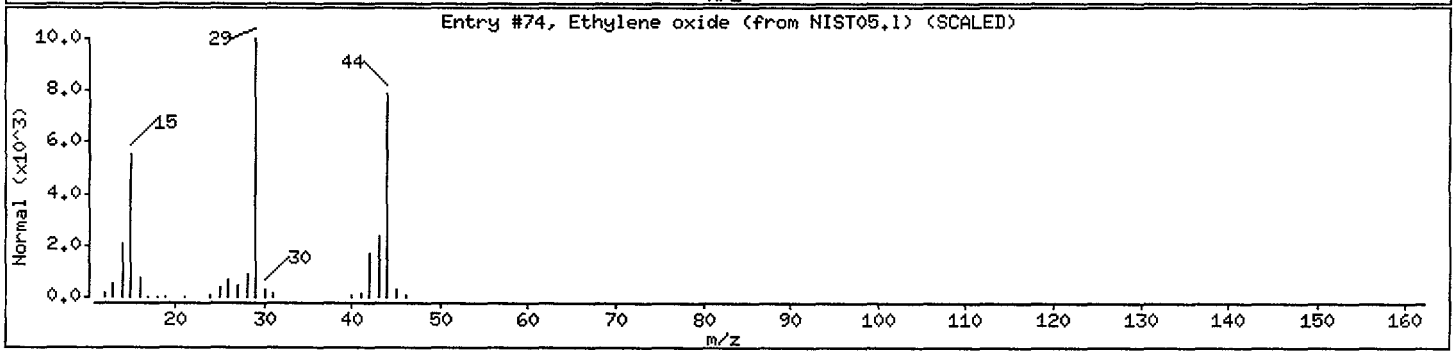
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.l	80	5	CO2	44
Nitrous Oxide	10024-97-2	NIST05.l	82	3	N2O	44
Ethylene oxide	75-21-8	NIST05.l	74	2	C2H4O	44









STL Knoxville - ACS

Client Sample ID: G-3101-R3-VOST TENAX/CHARCOAL TB

GC/MS Volatiles

Lot-Sample #...: H6D030169-035 **Work Order #...:** H2HC01AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.093 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.026 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	**0.029**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3101-R3-VOST TENAX/CHARCOAL TB

GC/MS Volatiles

Lot-Sample #...: H6D030169-035 **Work Order #...:** H2HC01AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.015 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	103	(50 - 134)
1,2-Dichloroethane-d4	97	(50 - 134)
Toluene-d8	94	(57 - 127)
Bromofluorobenzene	78	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3101-R3-VOST TENAX/CHARCOAL TB

GC/MS Volatiles

Lot-Sample #: H6D030169-035 **Work Order #:** H2HC01AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /chem/gcms/mz.i/Z040706.b/h2hc01aa.d
Report Date: 07-Apr-2006 11:52

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040706.b/h2hc01aa.d
Lab Smp Id: H2HC01AA Client Smp ID: G-3101-R3-VOST TENA
Inj Date : 07-APR-2006 11:34
Operator : 22980 Inst ID: mz.i
Smp Info : H2HC01AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 09:40 gosss Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

V 040706

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.675	5.676	(1.000)	863482	10.0000	
* 2 Chlorobenzene-d5	119	8.936	8.937	(1.000)	179067	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.491	11.492	(1.000)	239706	10.0000	
$ 4 Dibromofluoromethane	113	4.829	4.831	(0.851)	142263	10.2820	0.25705
$ 5 1,2-Dichloroethane-d4	65	5.237	5.238	(0.923)	115565	9.65885	0.24147
$ 6 Toluene-d8	98	7.463	7.465	(0.835)	741033	9.41841	0.23546
$ 7 4-Bromofluorobenzene	95	10.128	10.129	(0.881)	188736	7.80727	0.19518
11 Chloromethane (spcc)	50	1.124	1.126	(0.198)	84070	1.16339	0.029085
15 Bromomethane	94	1.422	1.418	(0.251)	1909	1.04157	0.026039
22 Acetone	43	2.122	2.123	(0.374)	1557	3.54714	0.088679
23 *Iodomethane	142	2.183	2.184	(0.385)	1458	0.58703	0.014676
39 *THF	42	4.555	4.532	(0.803)	824	0.40246	0.010061
45 1,2-Dichloroethane	62	5.675	5.335	(1.000)	13492	0.74825	0.018706
53 4-Methyl-2-pentanone	43	7.457	7.386	(1.314)	5389	0.71469	0.017867
69 Bromoform (spcc)	173	10.128	9.782	(1.133)	1071	1.17584	0.029396

- See reprint for (w)

Data File: /var/chem/gcms/mz.i/Z040706.b/h2hc01aa.d
Report Date: 14-Apr-2006 16:49

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2hc01aa.d
Lab Smp Id: H2HC01AA Client Smp ID: G-3101-R3-VOST TENA
Inj Date : 07-APR-2006 11:34
Operator : 22980 Inst ID: mz.i
Smp Info : H2HC01AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment   : Volatile Organics by GC/MS
Method   : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
*	1 Fluorobenzene	96	5.675	5.676	(1.000)	863482	10.0000	
*	2 Chlorobenzene-d5	119	8.936	8.937	(1.000)	179067	10.0000	
*	3 1,4 Dichlorobenzene-d4	152	11.491	11.492	(1.000)	239706	10.0000	
$	4 Dibromofluoromethane	113	4.829	4.831	(0.851)	142263	10.2820	0.25705
$	5 1,2-Dichloroethane-d4	65	5.237	5.238	(0.923)	115565	9.65881	0.24147
$	6 Toluene-d8	98	7.463	7.465	(0.835)	741033	9.41844	0.23546
$	7 4-Bromofluorobenzene	95	10.128	10.129	(0.881)	188736	7.80726	0.19518
	11 Chloromethane (spcc)	50	1.124	1.126	(0.198)	84070	1.16339	0.029085
	15 Bromomethane	94	1.422	1.418	(0.251)	1909	1.04151	0.026038
	22 Acetone	43	2.122	2.123	(0.374)	2505	3.72895	0.093224(M)
	23 *Iodomethane	142	2.183	2.184	(0.385)	1458	0.58703	0.014676
	39 *THF	42	4.555	4.532	(0.803)	824	0.40220	0.010055

Data File: /var/chem/gcms/mz.i/Z040706.b/h2hc01aa.d
Report Date: 14-Apr-2006 16:49

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/gcms/mz.i/Z040706.b/h2hc01aa.d
Report Date: 07-Apr-2006 11:52

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2hc01aa.d
Lab Smp Id: H2HC01AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 07:35
Client Smp ID: G-3101-R3-VOST TENA
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	952581	476290	1905162	863482	-9.35
2 Chlorobenzene-d5	164101	82050	328202	179067	9.12
3 1,4 Dichlorobenze	204390	102195	408780	239706	17.28

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.68	5.18	6.18	5.67	-0.02
2 Chlorobenzene-d5	8.94	8.44	9.44	8.94	-0.02
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	-0.01

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

Data File: /chem/gcms/mz.i/Z040706.b/h2hc01aa.d
Report Date: 07-Apr-2006 11:52

STL Knoxville

RECOVERY REPORT

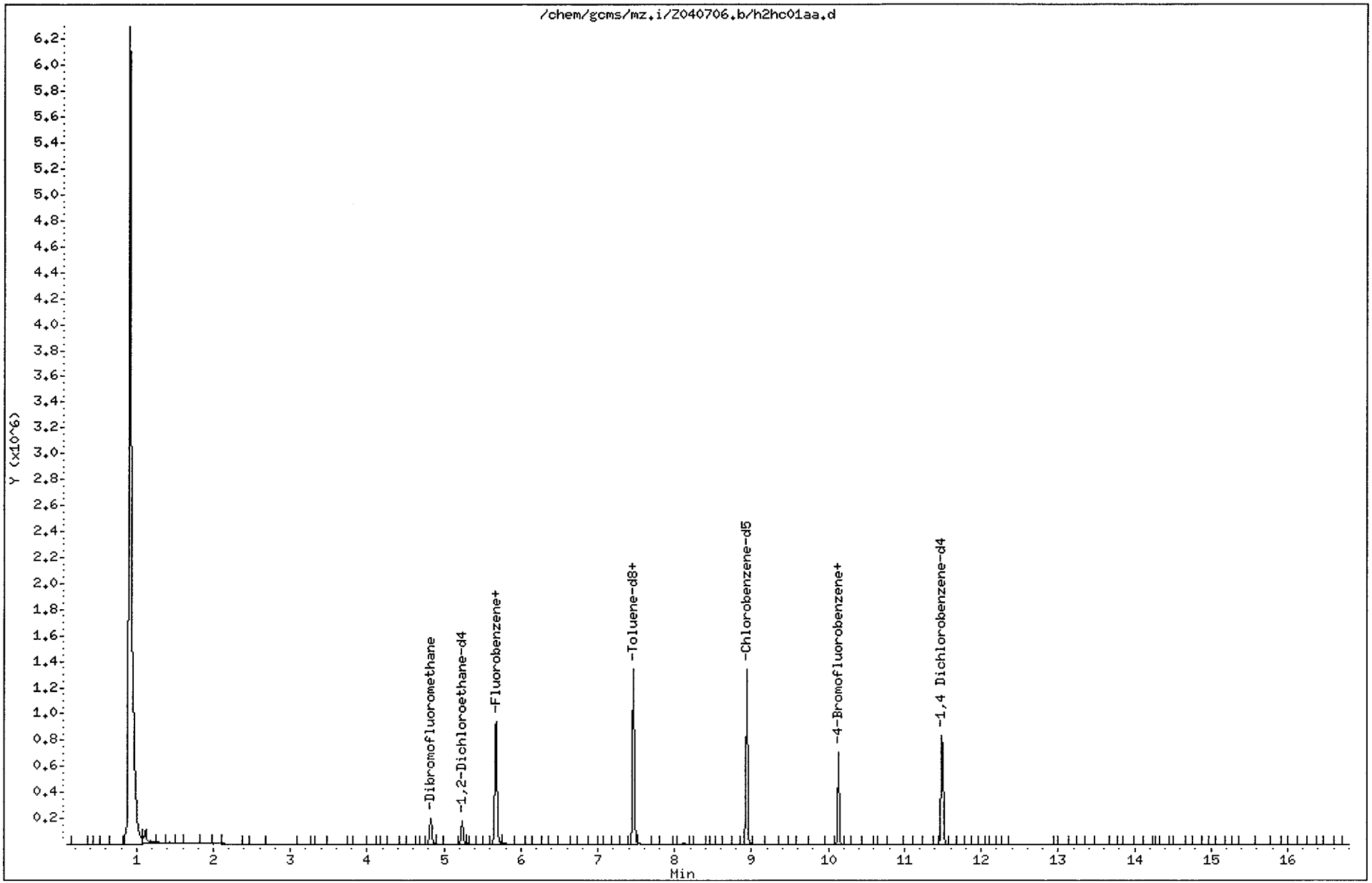
Client Name: STL Knoxville - ACS
Client SDG: H6D030169
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: H2HC01AA
Client Smp ID: G-3101-R3-VOST TENA
Level: LOW
Operator: 22980
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allcmpds.spk
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.25705	102.82	50-150
$ 5 1,2-Dichloroethane	0.25000	0.24147	96.59	50-150
$ 6 Toluene-d8	0.25000	0.23546	94.18	50-150
$ 7 4-Bromofluorobenze	0.25000	0.19518	78.07	50-150

Data File: /chem/gcms/mz.i/Z040706.b/h2hc01aa.d
Date : 07-APR-2006 11:34
Client ID: G-3101-R3-VOST TENA
Sample Info: H2HC01AA,1,0,,

Instrument: mz.i
Operator: 22980
Column diameter: 0.18

Column phase: J+W 624



Data File: /chem/gcms/mz.i/Z040706.b/h2hc01aa.d

Date : 07-APR-2006 11:34

Client ID: G-3101-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HC01AA,1,0,,

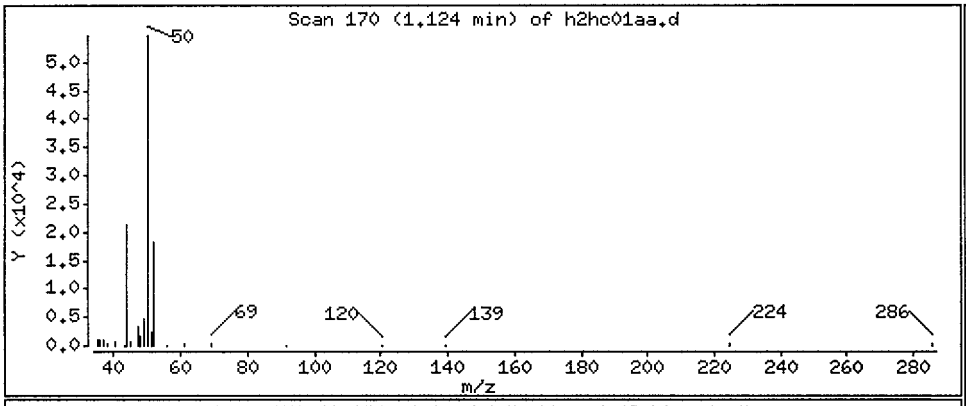
Operator: 22980

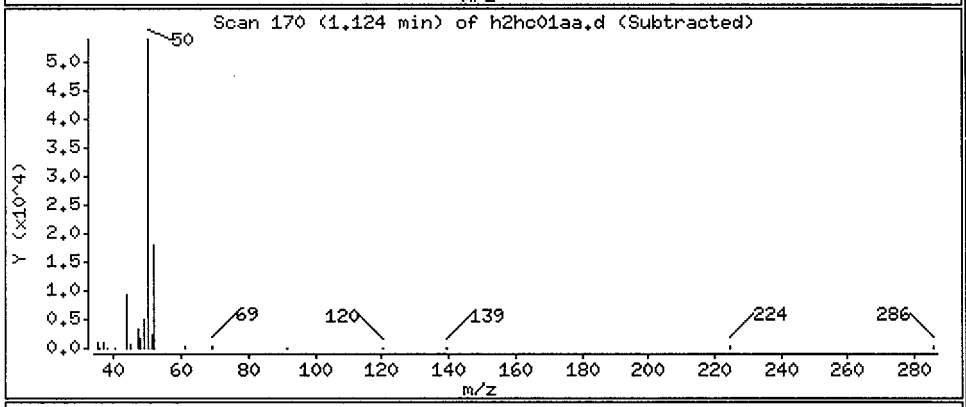
Column phase: J+W 624

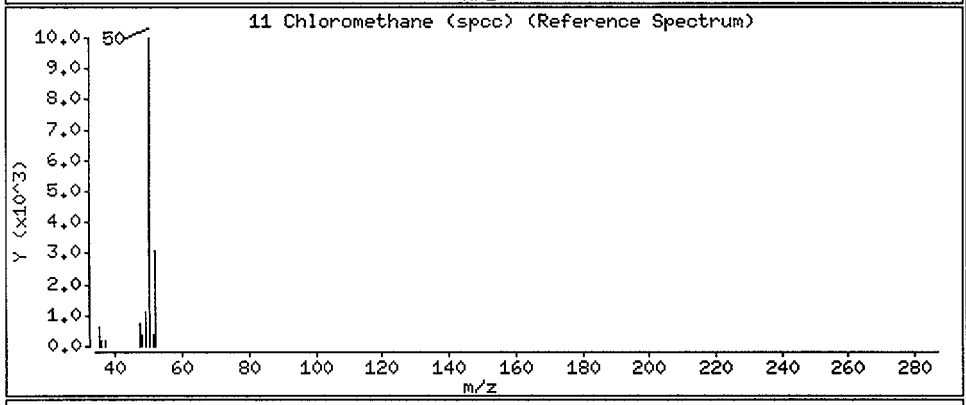
Column diameter: 0.18

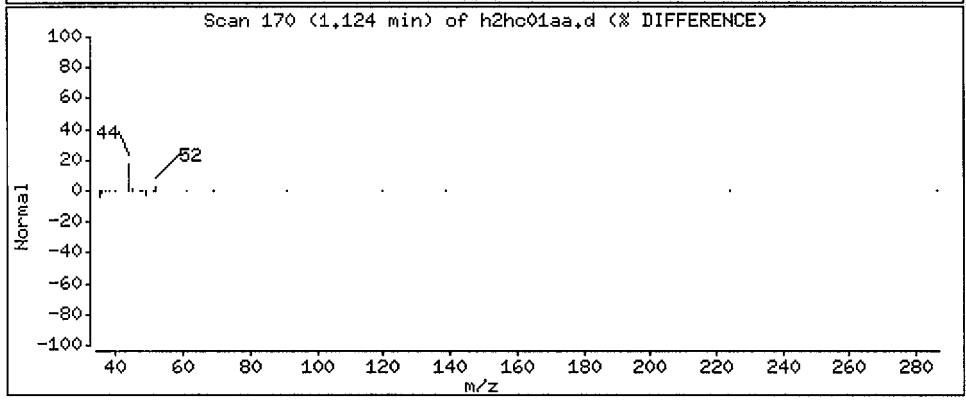
11 Chloromethane (spcc)

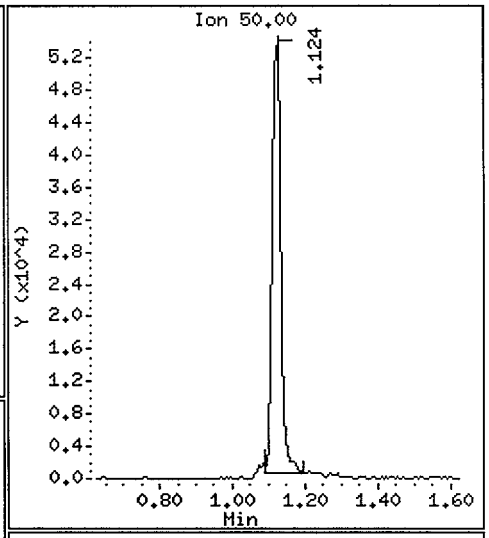
Concentration: 0.029085 ug

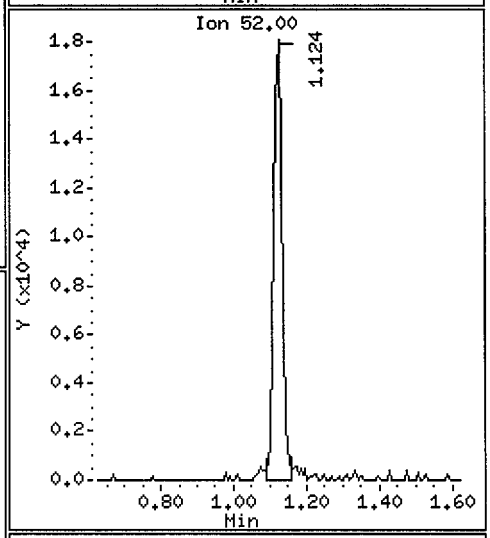


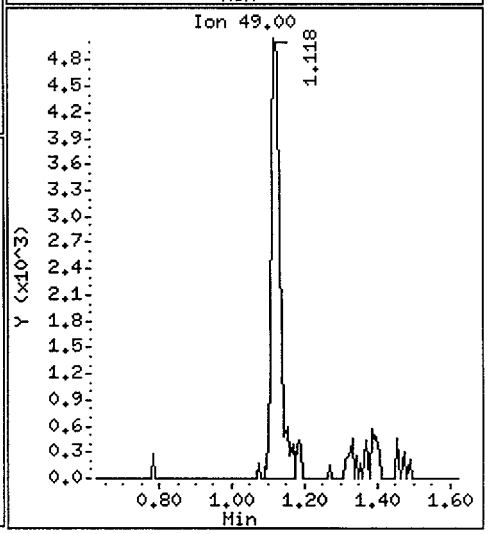












Data File: /chem/gcms/mz.i/Z040706.b/h2hc01aa.d

Date : 07-APR-2006 11:34

Client ID: G-3101-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HC01AA,1,0,,

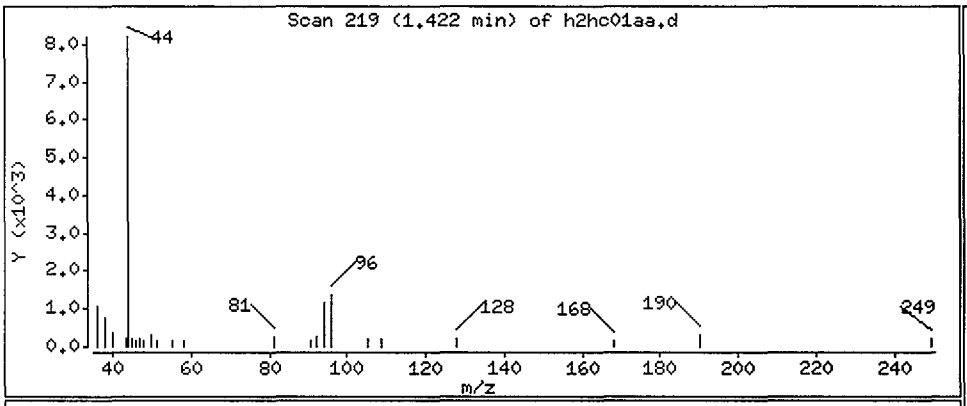
Operator: 22980

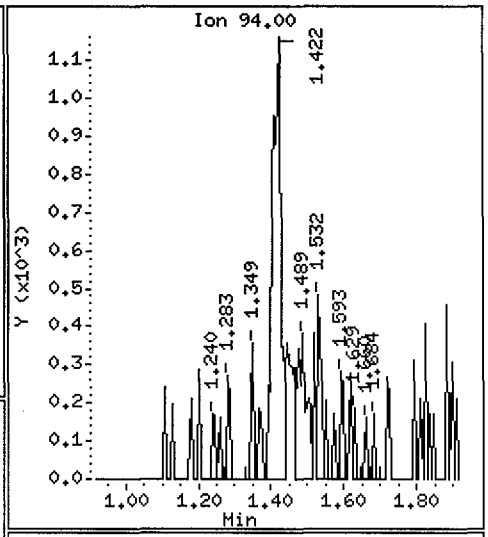
Column phase: J+W 624

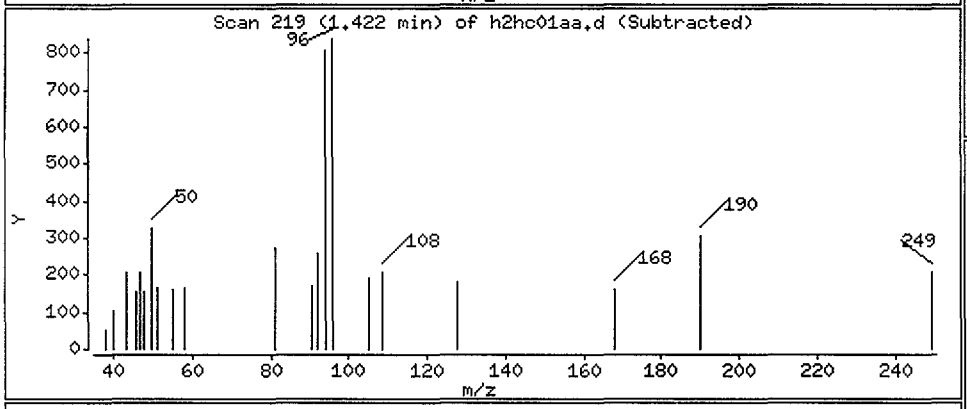
Column diameter: 0.18

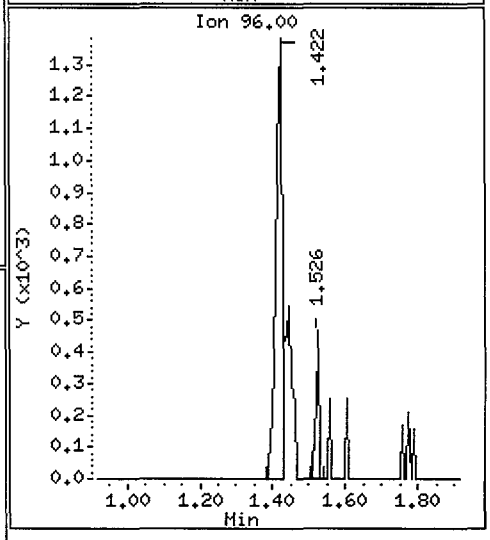
15 Bromomethane

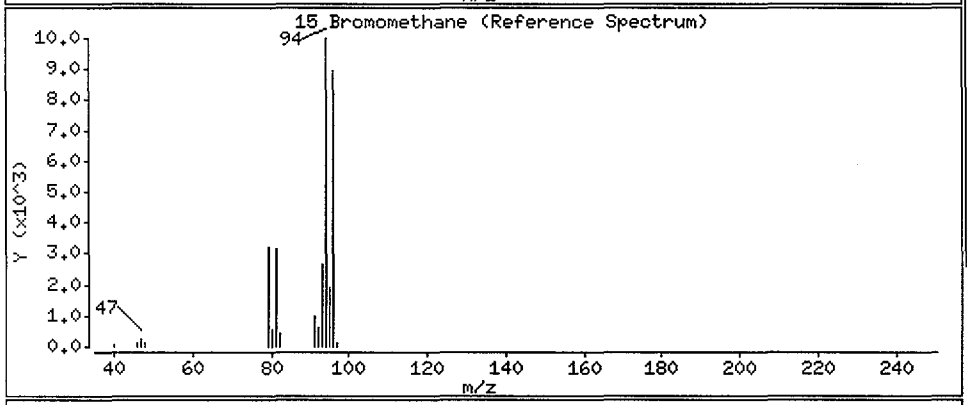
Concentration: 0.026039 ug

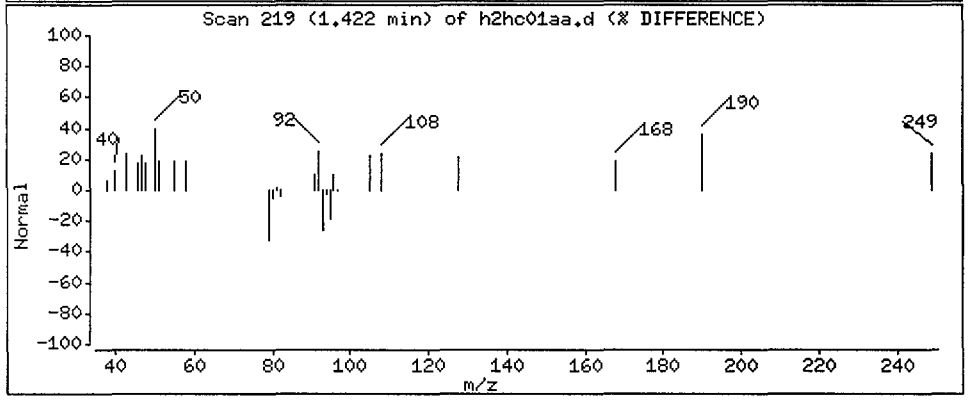












Data File: /var/chem/gcms/mz.i/Z040706.b/h2hc01aa.d

Date : 07-APR-2006 11:34

Client ID: G-3101-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HC01AA,1,0,,

Operator: 22980

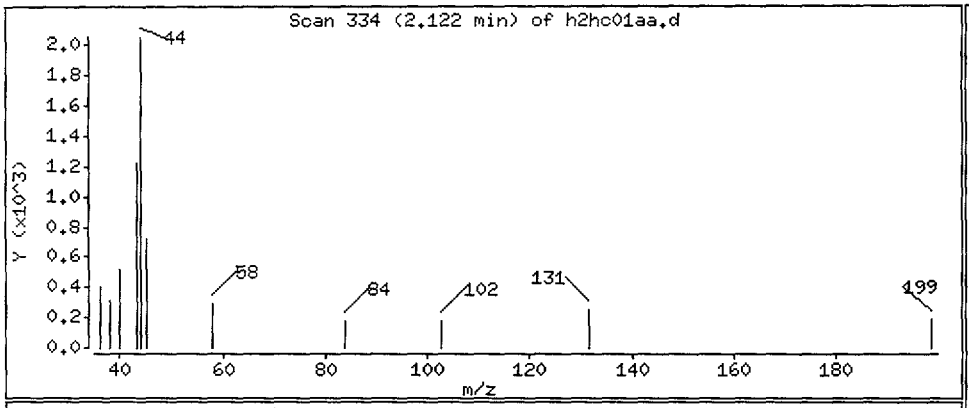
DLW 4.14.06
(1)

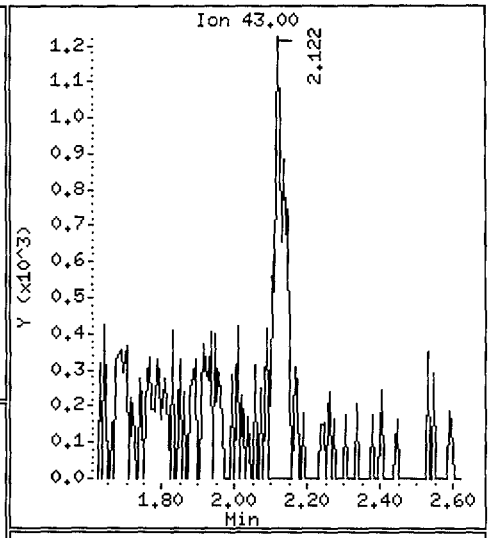
Column phase: J+W 624

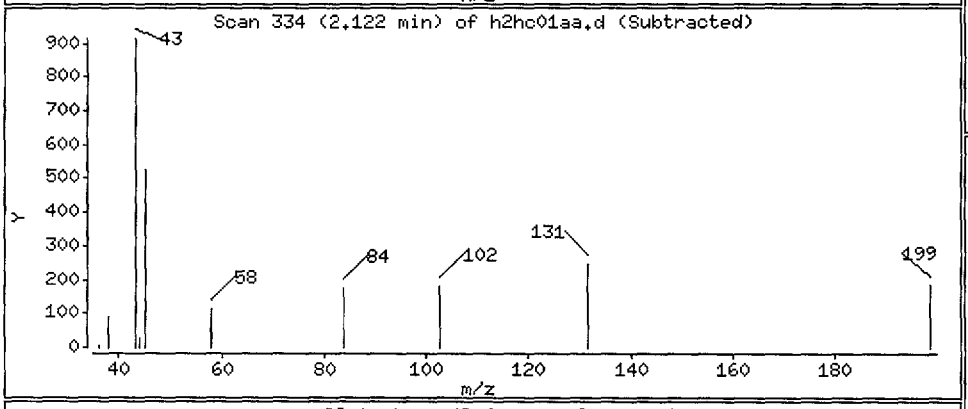
Column diameter: 0.18

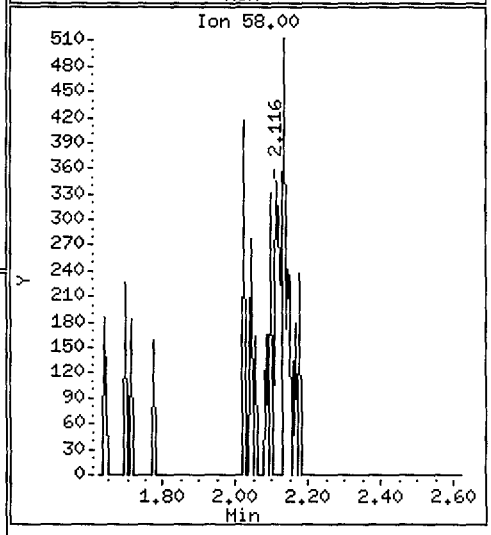
22 Acetone

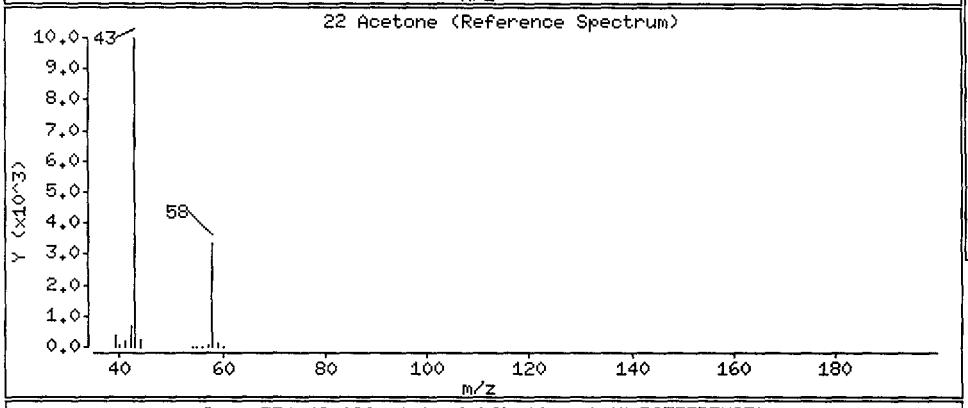
Concentration: 0.093224 ug

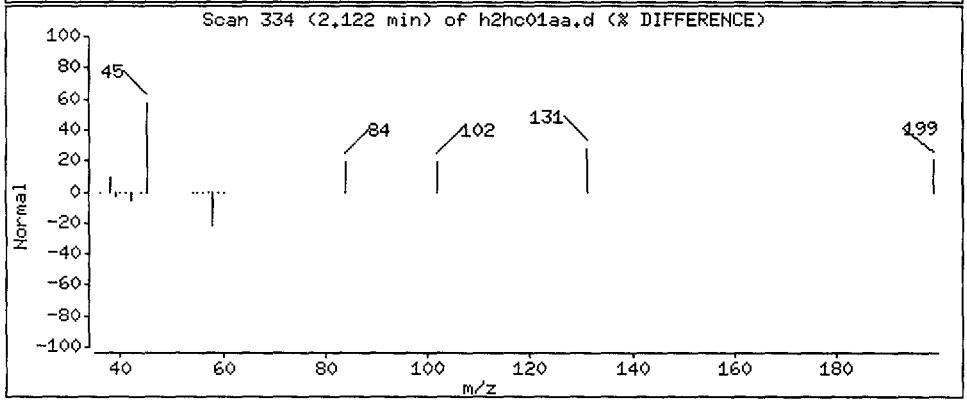












Data File: /chem/gcms/mz.i/Z040706.b/h2hc01aa.d

Date : 07-APR-2006 11:34

Client ID: G-3101-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HC01AA,1,0,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

23 *Iodomethane

Concentration: 0.014676 ug