FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-7A

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: QE1877-1

Sample wt/vol: 25 (g/ml) ML Lab File ID: QE1877-1A73

Level: (low/med) LOW Date Received: 03/06/02

% Moisture: not dec. _____ Date Analyzed: 03/07/02

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-35-4	1,1-Dichloroethene	4	
75-15-0	Carbon disulfide	0.5	U
67-64-1	Acetone	2	JB
75-09-2	Methylene Chloride	0.1	J
156-60-5	trans-1,2-Dichloroethene	0.5	U
75-34-3	1,1-Dichloroethane	6	
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-butanone	3	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	5	
56-23-5	Carbon Tetrachloride	0.5	U
71-43-2	Benzene	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.08	J
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	3	U
108-88-3	Toluene	0.06	J
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
591-78-6	2-hexanone	3	U
124-48-1	Dibromochloromethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.5	U
108-38-3	m,p-Xylene	1	U
95-47-6	o-Xylene	0.5	U
100-42-5	Styrene	0.5	U

FORM I VOA

30225962
Superfund

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-7A

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: QE1877-1

Sample wt/vol: 25 (g/ml) ML Lab File ID: QE1877-1A73

Level: (low/med) LOW Date Received: 03/06/02

% Moisture: not dec. _____ Date Analyzed: 03/07/02

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

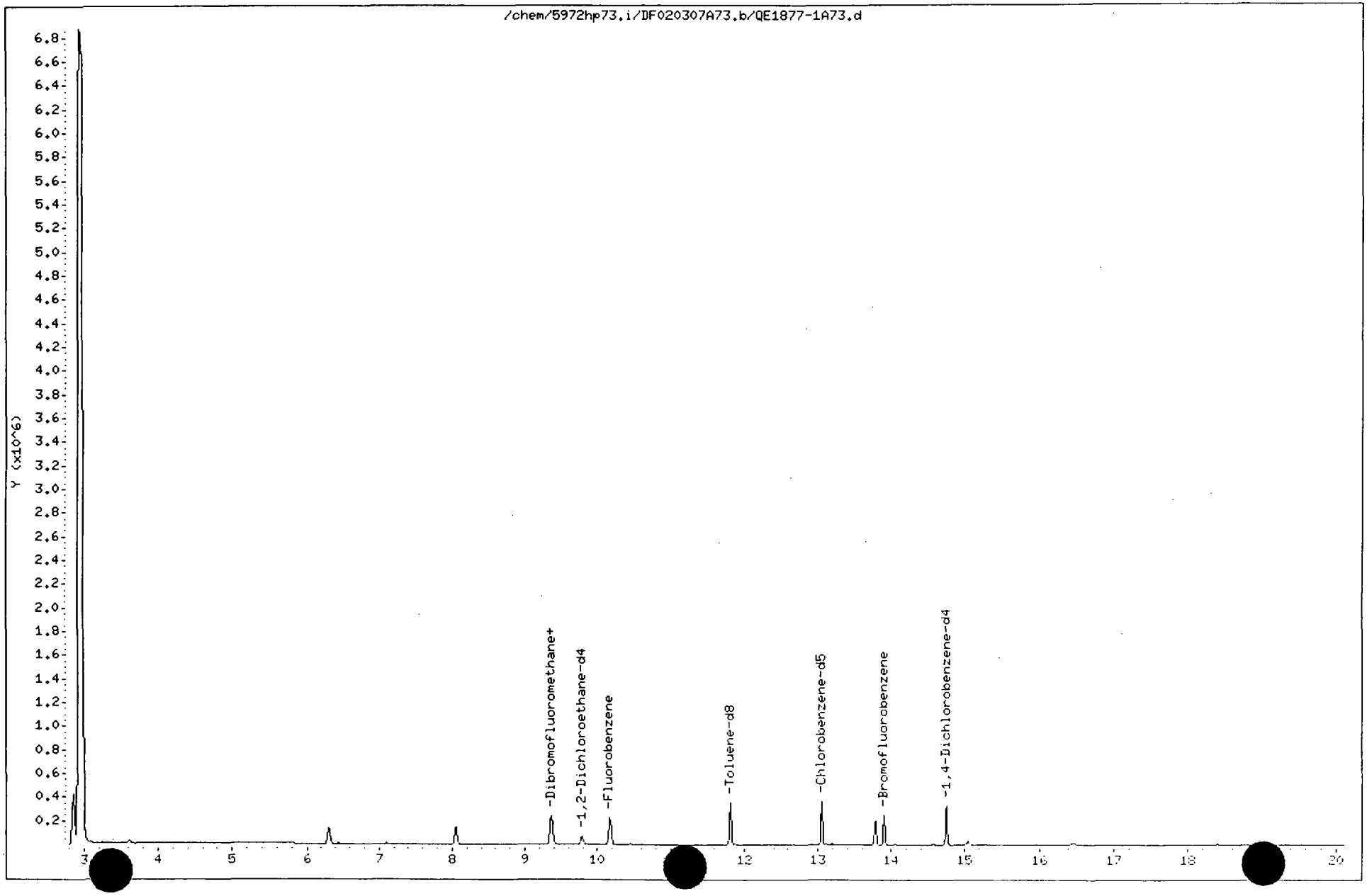
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-25-2	Bromoform	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
1330-20-7	Xylene (total)	0.5	U

Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-1A73.d
Date : 07-MAR-2002 14:23
Client ID: MW-7A
Sample Info:
Purge Volume: 25.0
Column phase: ZB-624

Instrument: 5972hp73.i
Operator: 2429
Column diameter: 0.32

411



Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-1A73.d
Report Date: 08-Mar-2002 15:51

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF020307A73.b/QE1877-1A73.d
Lab Smp Id: QE1877-1 Client Smp ID: MW-7A
Inj Date : 07-MAR-2002 14:23
Operator : 2429 Inst ID: 5972hp73.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp73.i/DF020307A73.b/W8260-B-25MLv6.m
Meth Date : 08-Mar-2002 13:55 hubbard Quant Type: ISTD
Cal Date : 22-FEB-2002 22:50 Cal File: CY020222B73.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL3CT.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

nd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	10.167	10.169	(1.000)	242930	125.000	
* 2 Chlorobenzene-d5	117	13.051	13.053	(1.000)	183332	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.744	14.736	(1.000)	89225	125.000	
4 Dibromofluoromethane	113	9.350	9.352	(0.920)	74548	132.315	5.29
5 1,2-Dichloroethane-d4	65	9.784	9.775	(0.962)	61271	128.066	5.12
6 Toluene-d8	98	11.811	11.813	(0.905)	228349	124.188	4.97
7 Bromofluorobenzene	95	13.898	13.899	(0.943)	82473	127.870	5.11
9 Chloromethane	50	Compound Not Detected					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
16 1,1-Dichloroethene	96	6.309	6.301	(0.621)	69780	106.860	4.27
21 Carbon disulfide	76	Compound Not Detected.					
18 Acetone	43	6.447	6.439	(0.634)	4807	48.1510	1.93(a)
24 Methylene Chloride	84	7.097	7.088	(0.698)	2286	3.65978	0.146(a)
27 trans-1,2-Dichloroethene	96	Compound Not Detected.					

SAH 3/8/02

Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-1A73.d
Report Date: 08-Mar-2002 15:51

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
30 1,1-Dichloroethane	63	8.051	8.043	(0.792)	194936	152.138	6.09
34 cis-1,2-Dichloroethene	96	Compound Not Detected.					
37 2-butanone	43	Compound Not Detected.					
42 Chloroform	83	Compound Not Detected.					
43 1,1,1-Trichloroethane	97	9.370	9.362	(0.922)	146168	123.820	4.95
48 Carbon Tetrachloride	117	Compound Not Detected.					
51 Benzene	78	Compound Not Detected.					
49 1,2-Dichloroethane	62	Compound Not Detected.					
53 Trichloroethene	130	10.600	10.592	(1.043)	1503	1.99495	0.0798(a)
55 1,2-Dichloropropane	63	Compound Not Detected.					
59 Bromodichloromethane	83	Compound Not Detected.					
61 cis-1,3-Dichloropropene	75	Compound Not Detected.					
62 4-Methyl-2-pentanone	43	Compound Not Detected.					
63 Toluene	92	11.880	11.872	(0.910)	2199	1.45570	0.0582(a)
64 trans-1,3-Dichloropropene	75	Compound Not Detected.					
65 1,1,2-Trichloroethane	97	Compound Not Detected.					
68 Tetrachloroethene	164	Compound Not Detected.					
69 2-hexanone	43	Compound Not Detected.					
70 Dibromochloromethane	129	Compound Not Detected.					
72 Chlorobenzene	112	Compound Not Detected.					
75 Ethylbenzene	106	Compound Not Detected.					
76 m,p-Xylene	106	Compound Not Detected.					
77 o-Xylene	106	Compound Not Detected.					
78 Styrene	104	Compound Not Detected.					
[illegible] Bromoform	173	Compound Not Detected.					
[illegible] 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
M 107 Xylene (total)	106	Compound Not Detected.					

QC Flag Legend

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

Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-1A73.d

Date : 07-MAR-2002 14:23

Client ID: MW-7A

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

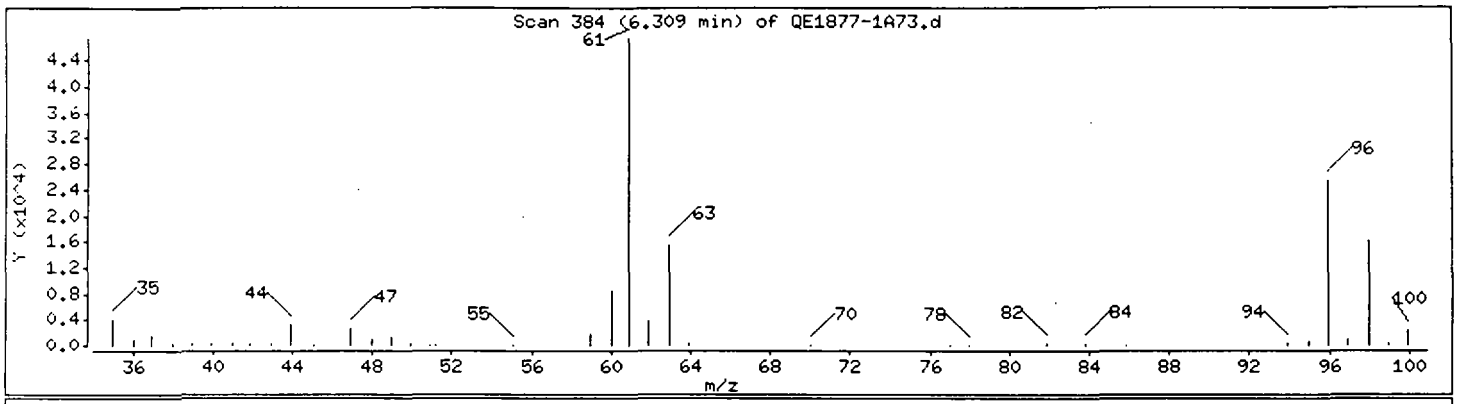
Operator: 2429

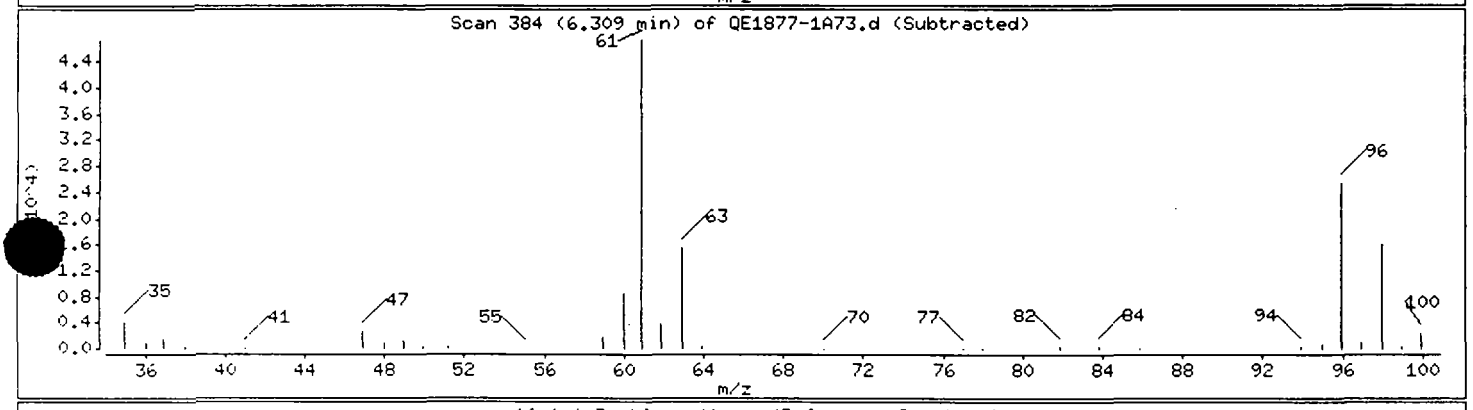
Column phase: ZB-624

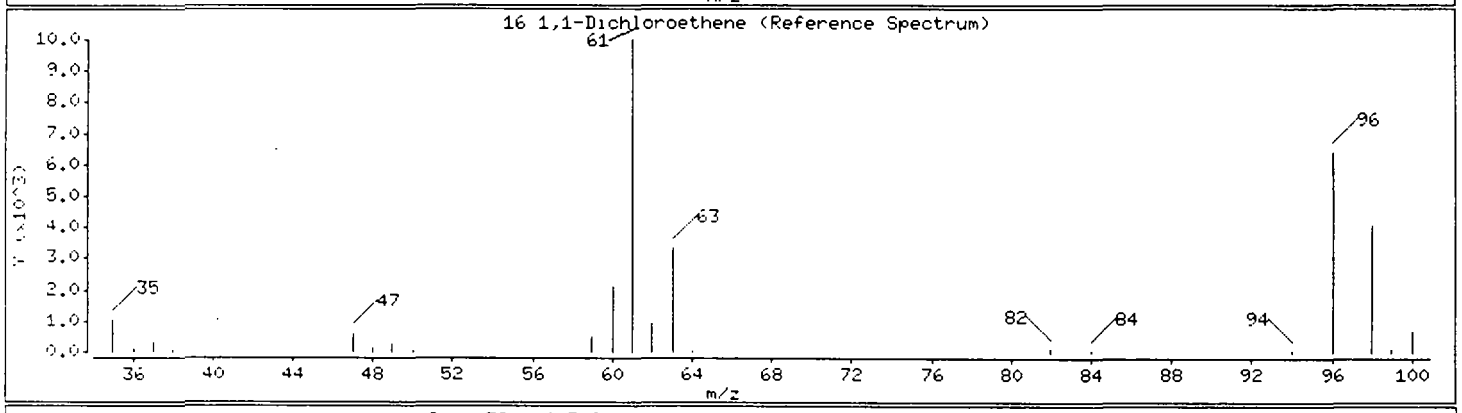
Column diameter: 0.32

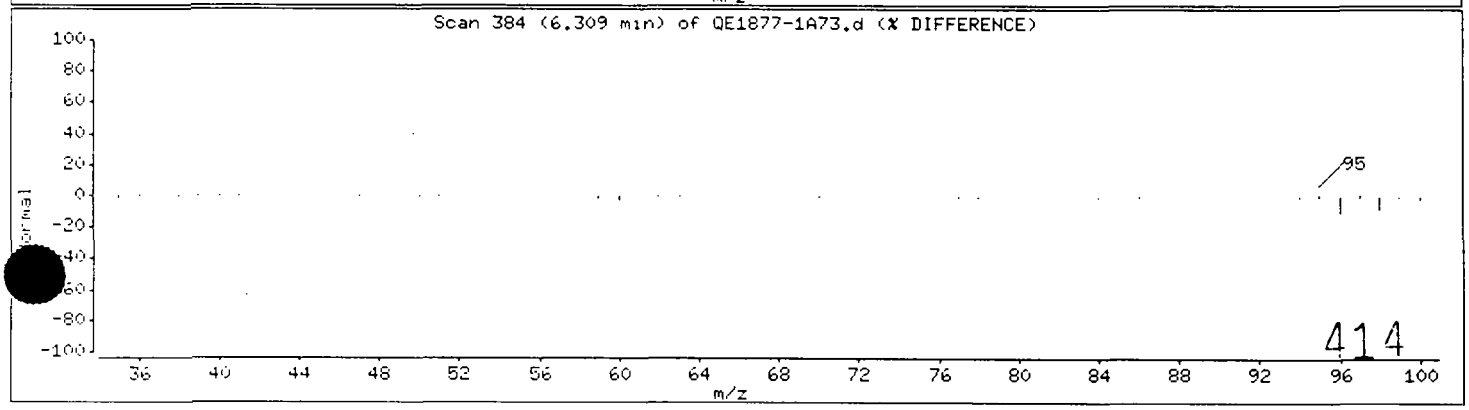
16 1,1-Dichloroethene

Concentration: 4.27 ug/L









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Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-1A73.d

Date : 07-MAR-2002 14:23

Client ID: MW-7A

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

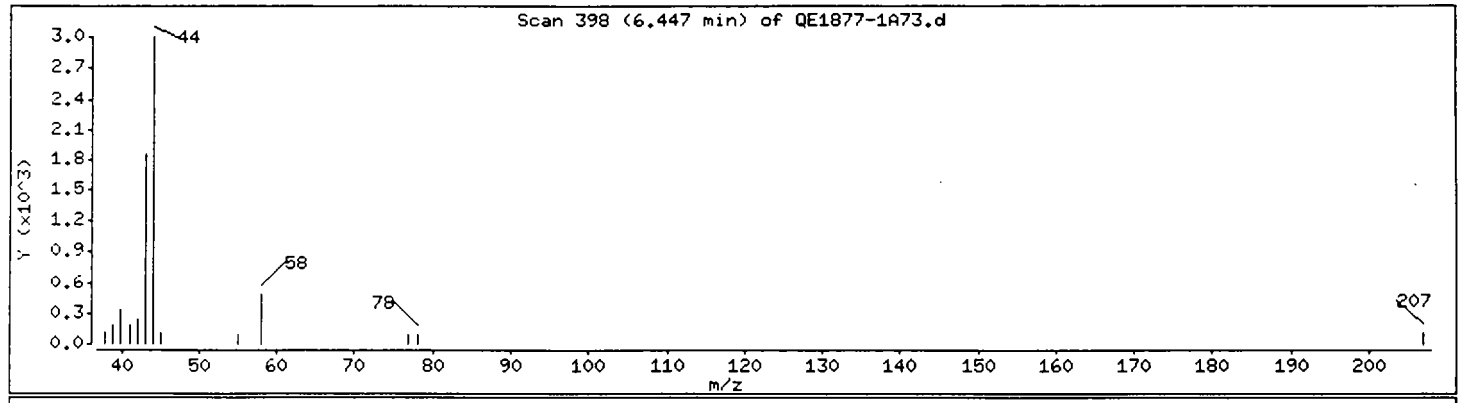
Operator: 2429

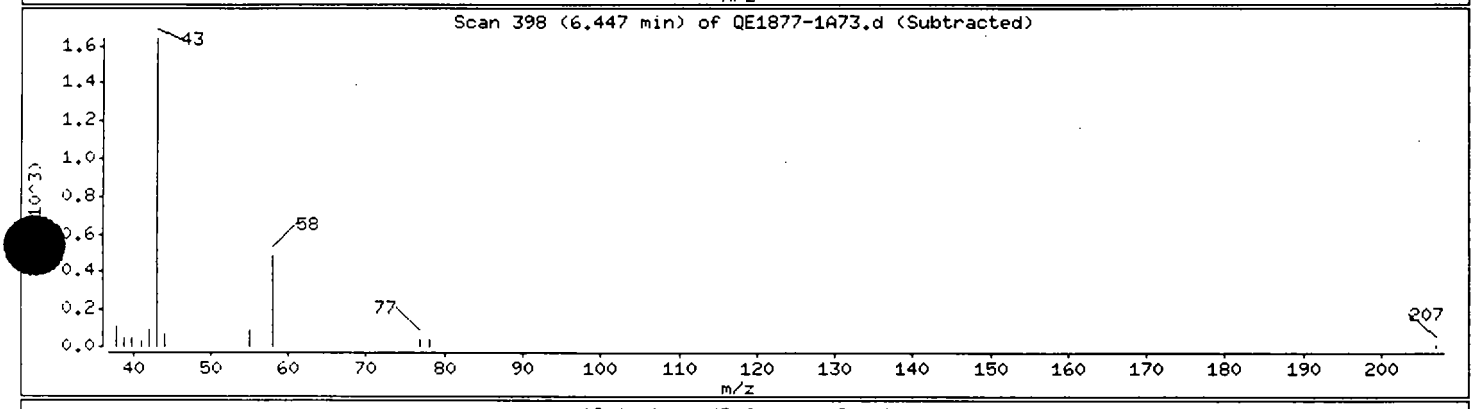
Column phase: ZB-624

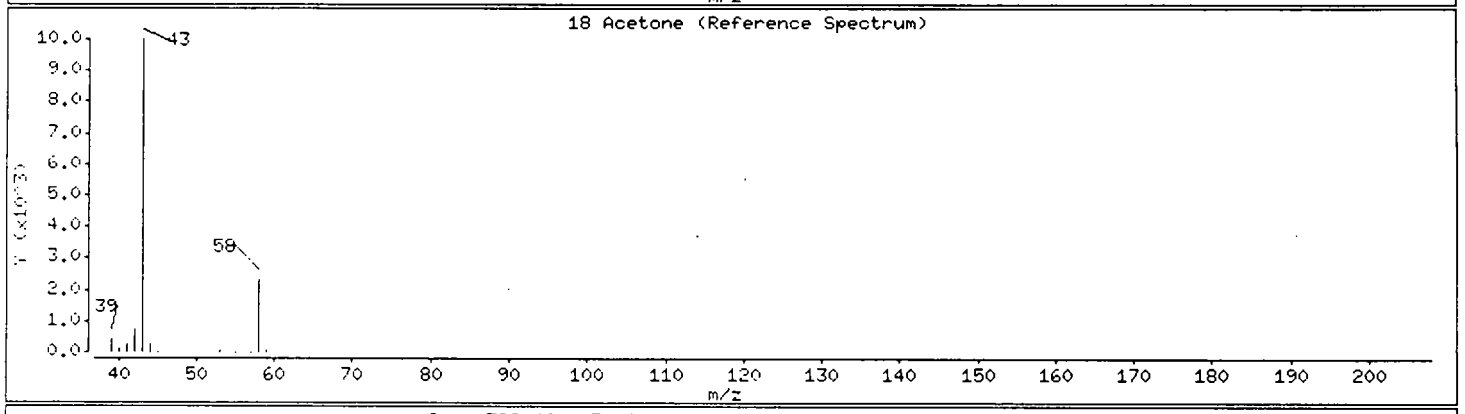
Column diameter: 0.32

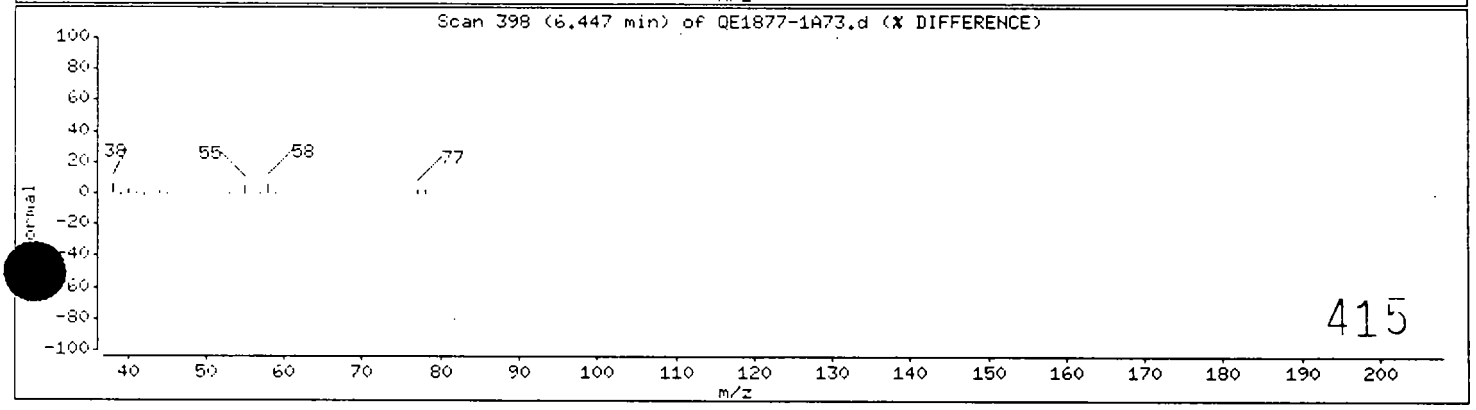
18 Acetone

Concentration: 1.93 ug/L









Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-1A73.d

Date : 07-MAR-2002 14:23

Client ID: MW-7A

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

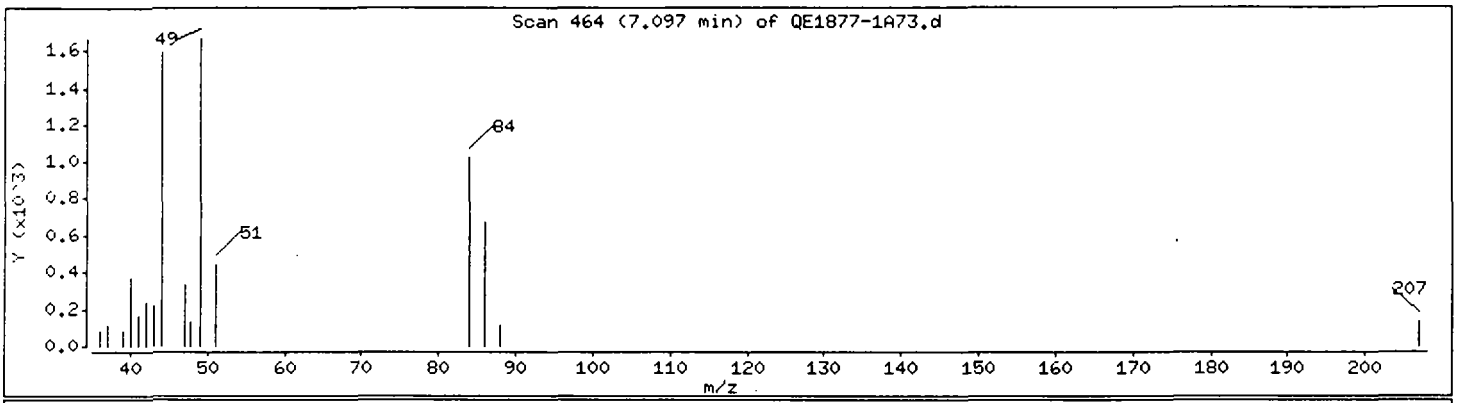
Operator: 2429

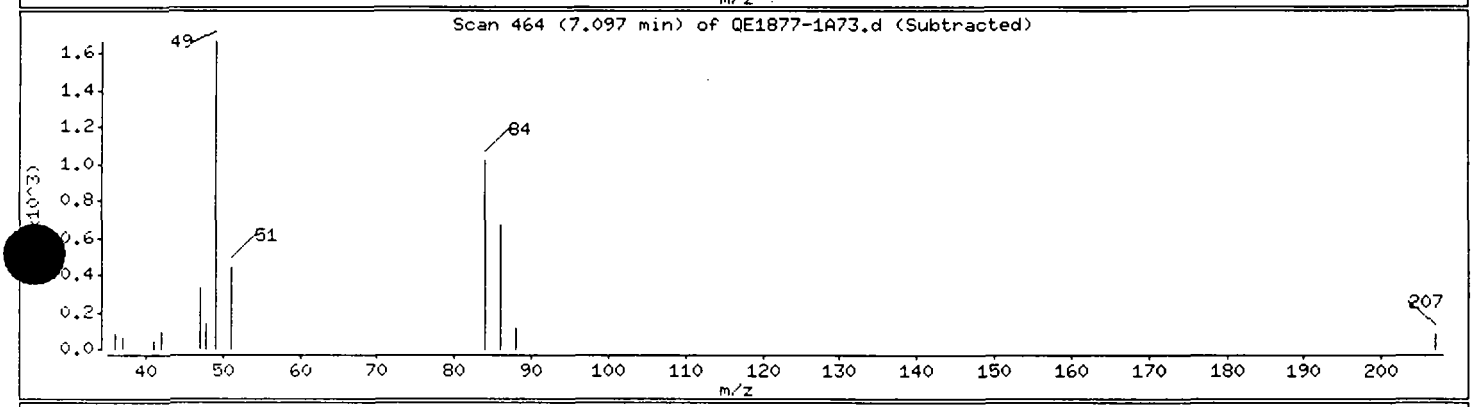
Column phase: ZB-624

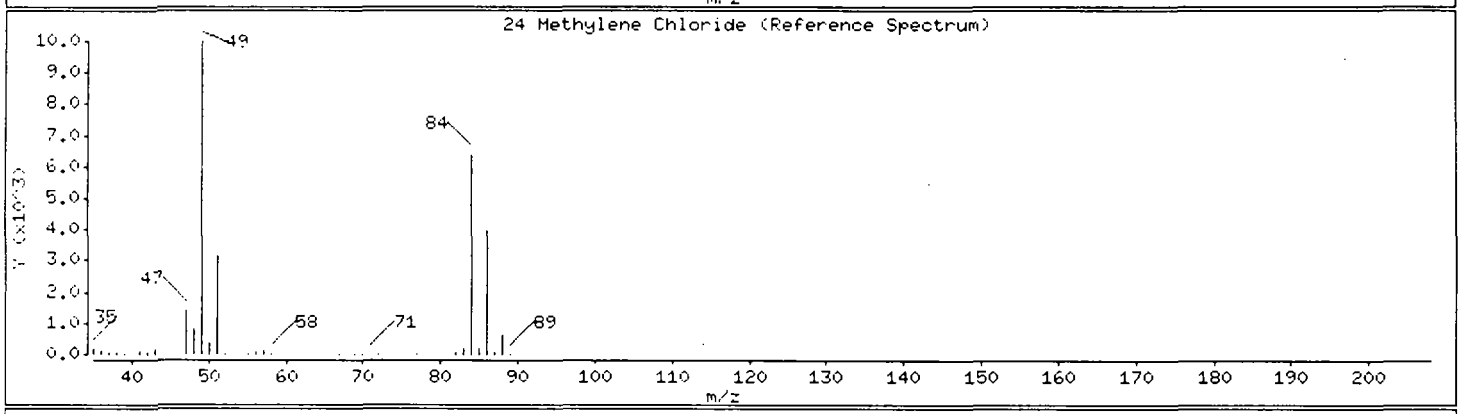
Column diameter: 0.32

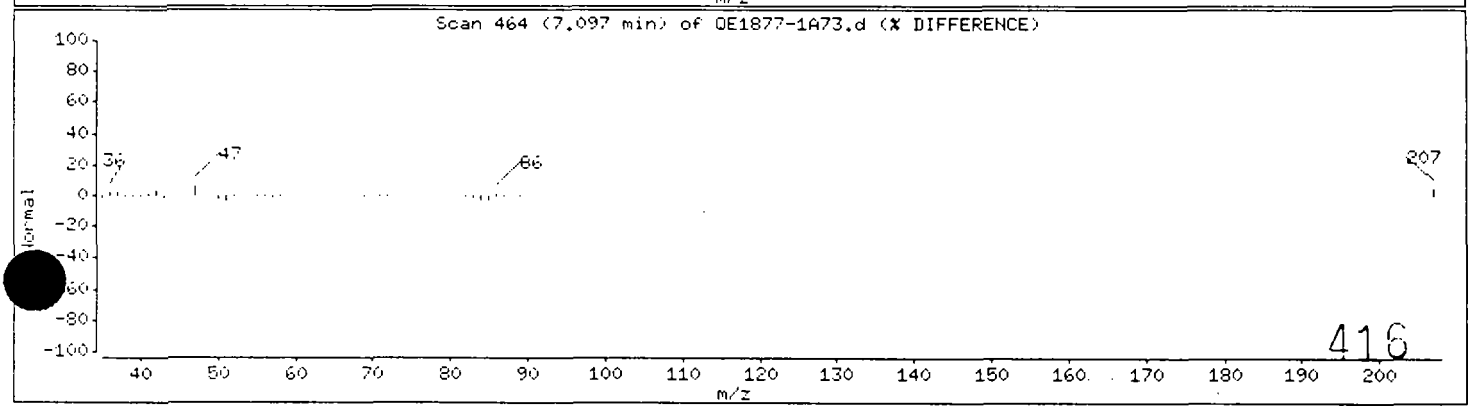
24 Methylene Chloride

Concentration: 0.146 ug/L









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Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-1A73.d

Date : 07-MAR-2002 14:23

Client ID: MW-7A

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

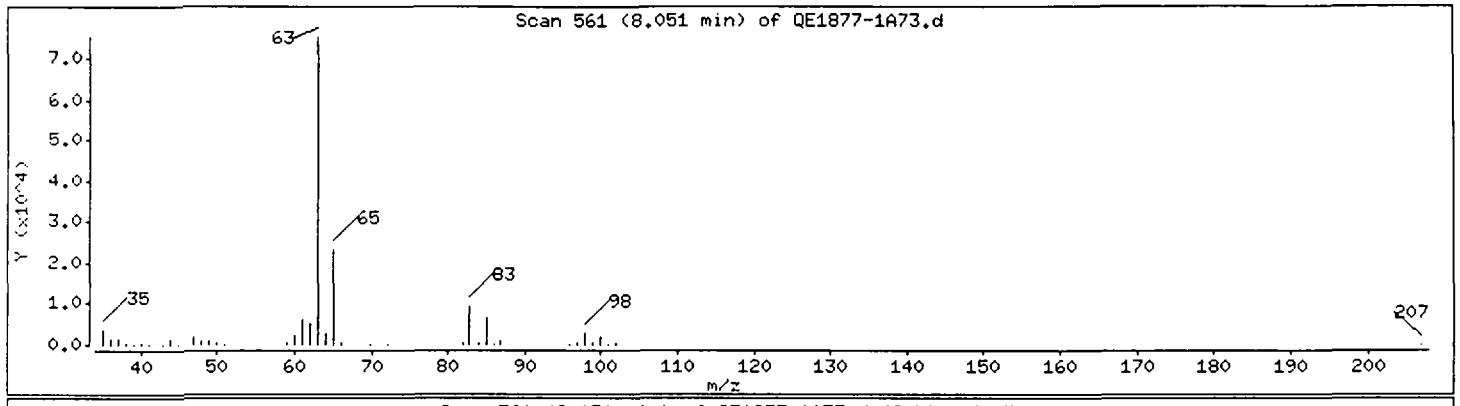
Operator: 2429

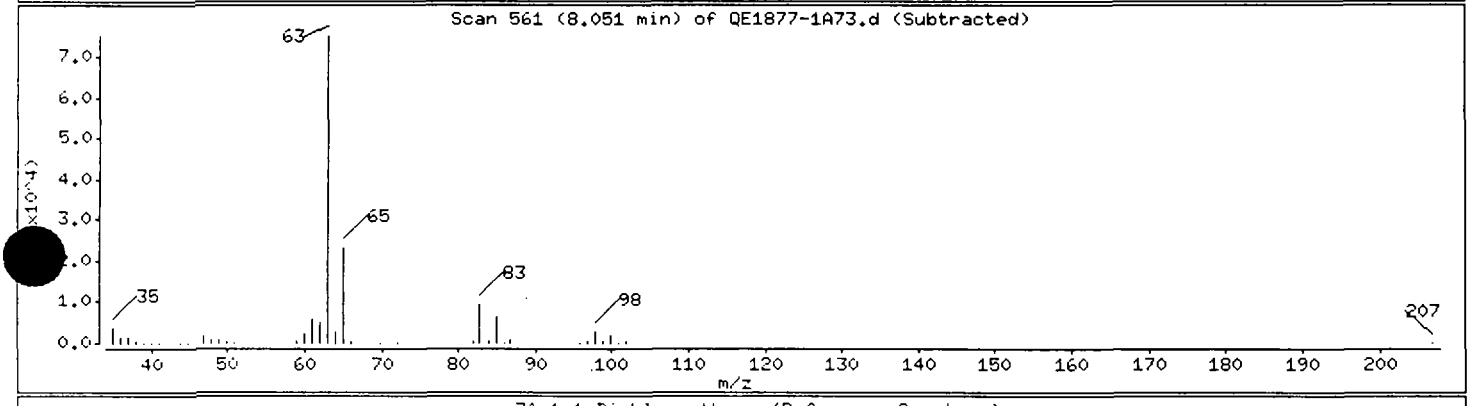
Column phase: ZB-624

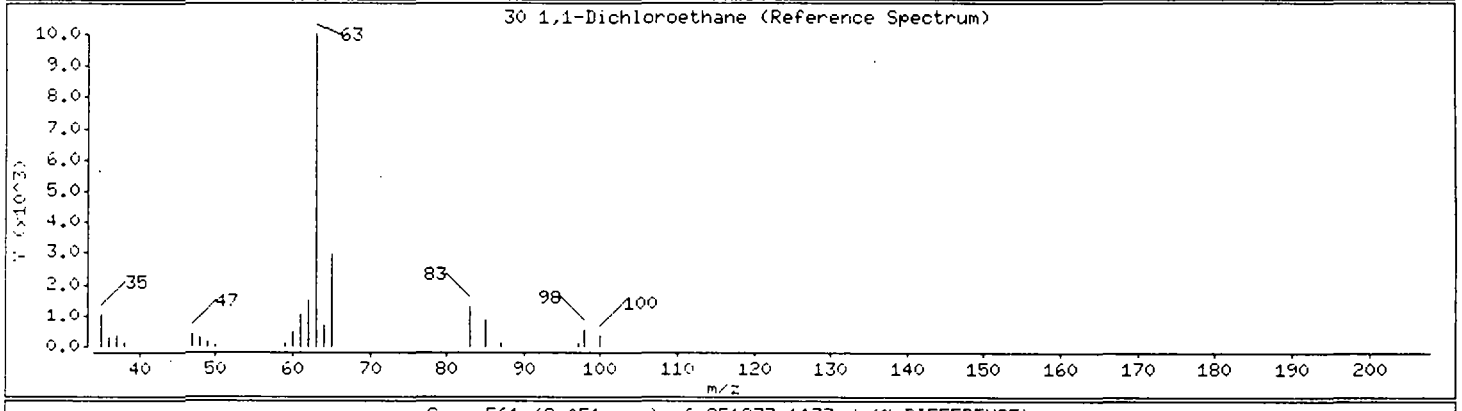
Column diameter: 0.32

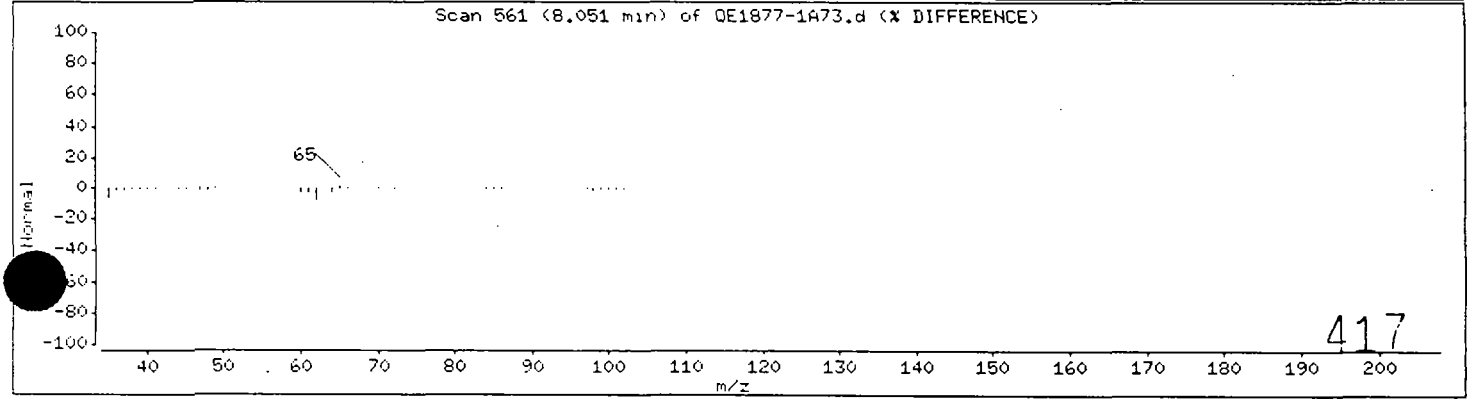
30 1,1-Dichloroethane

Concentration: 6.09 ug/L









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Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-1A73.d

Date : 07-MAR-2002 14:23

Client ID: MW-7A

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

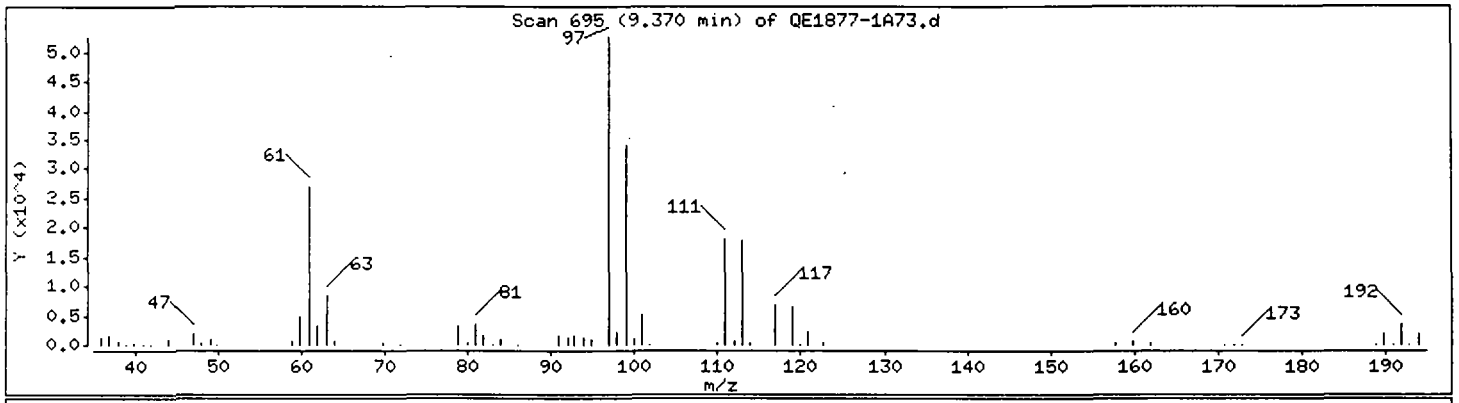
Operator: 2429

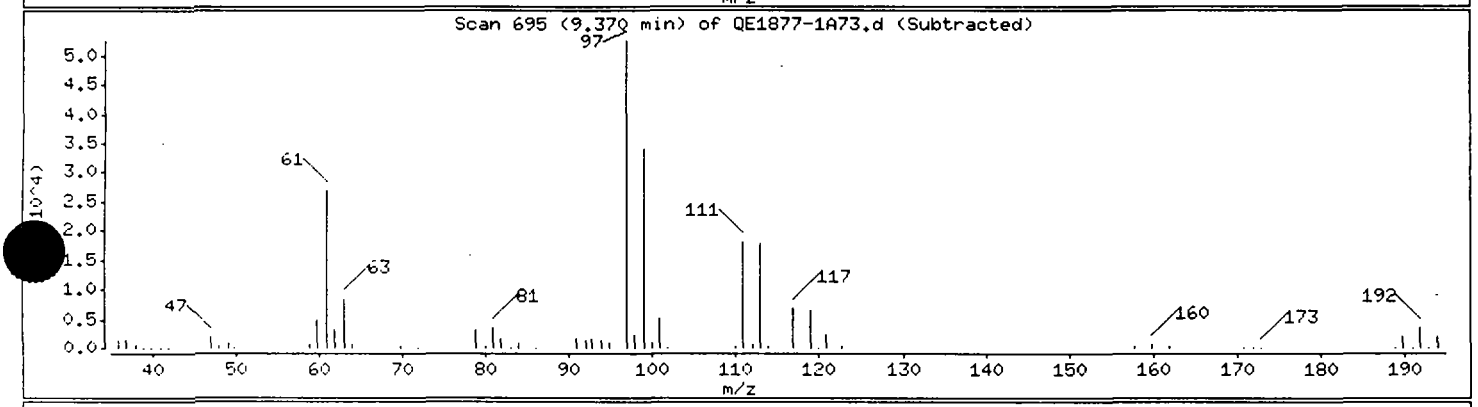
Column phase: ZB-624

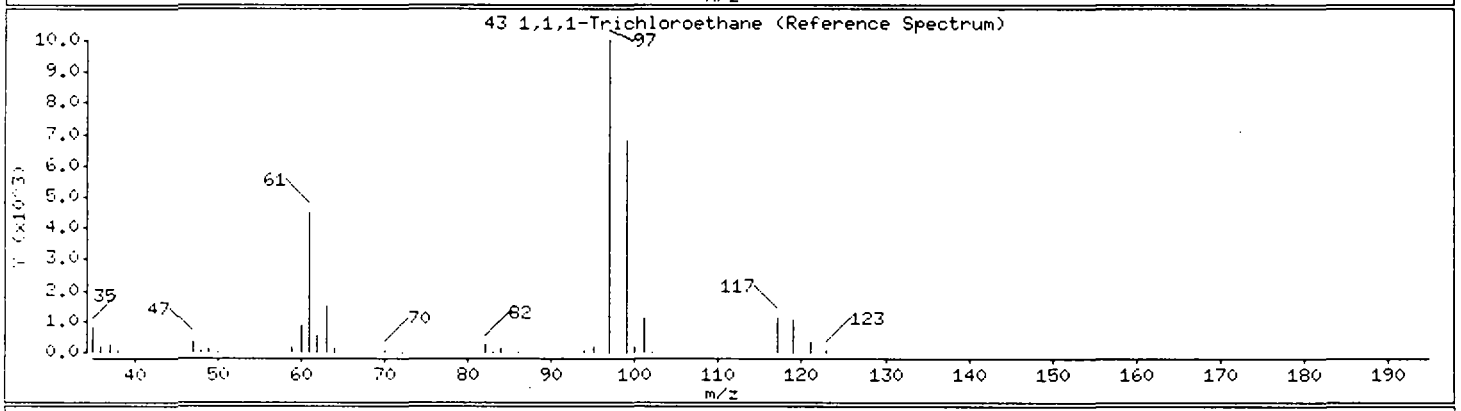
Column diameter: 0.32

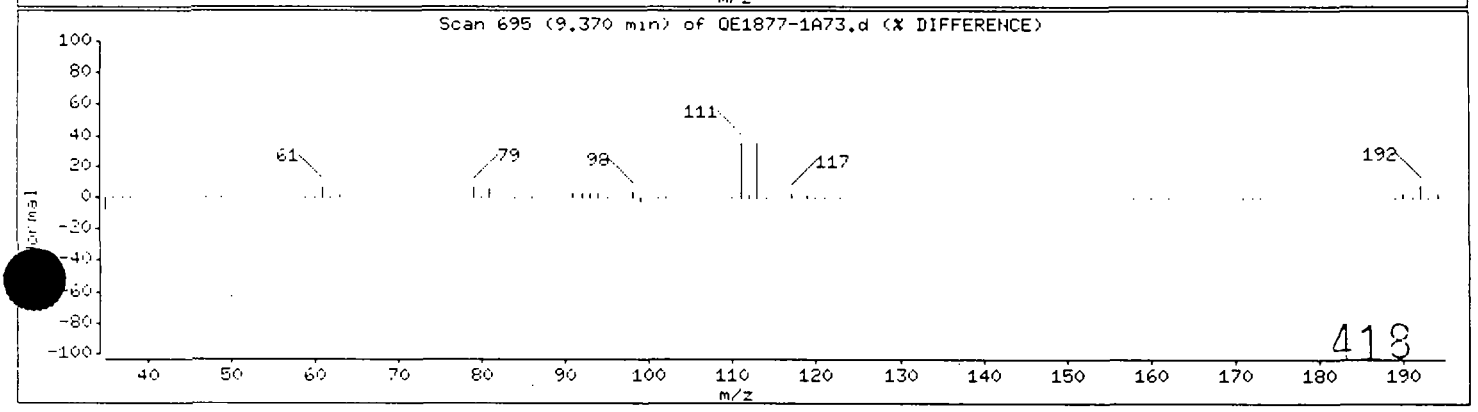
43 1,1,1-Trichloroethane

Concentration: 4.95 ug/L









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Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-1A73.d

Date : 07-MAR-2002 14:23

Client ID: MW-7A

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

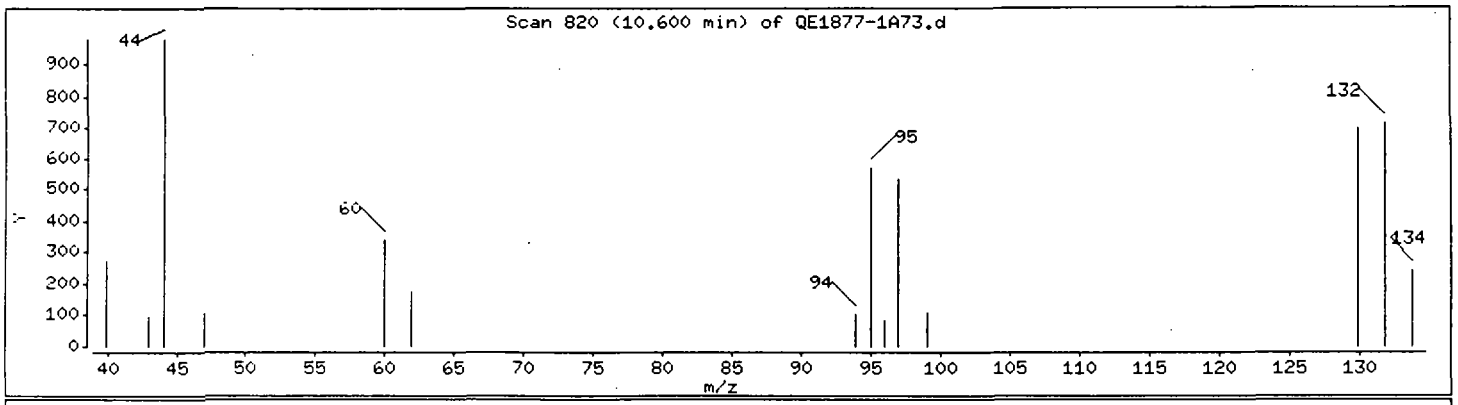
Operator: 2429

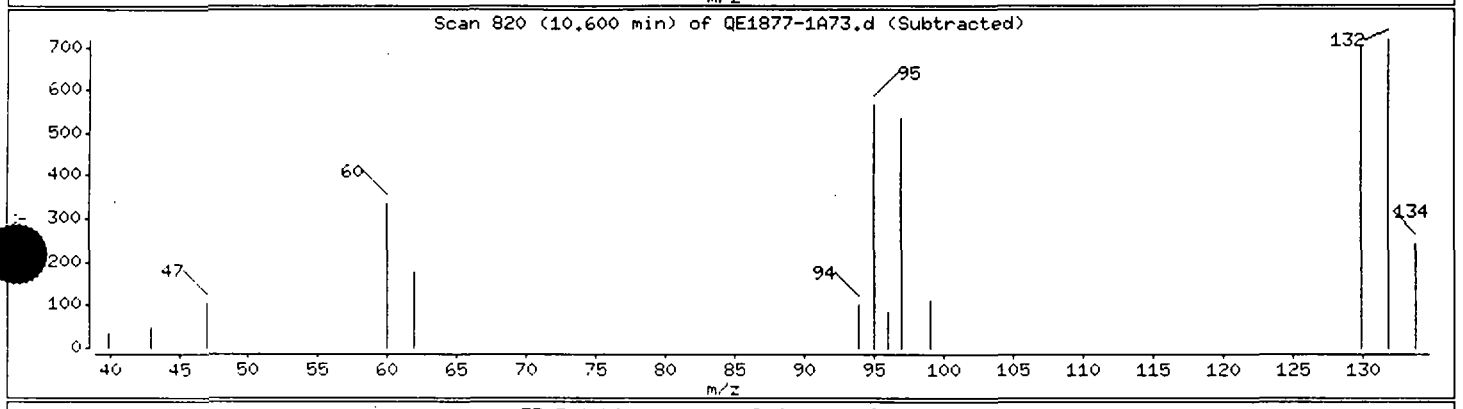
Column phase: ZB-624

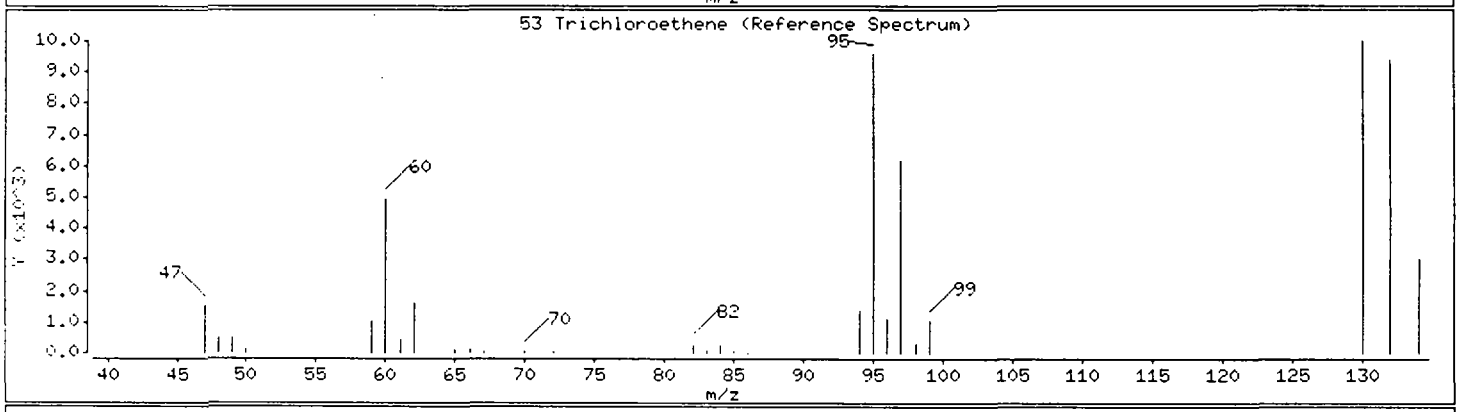
Column diameter: 0.32

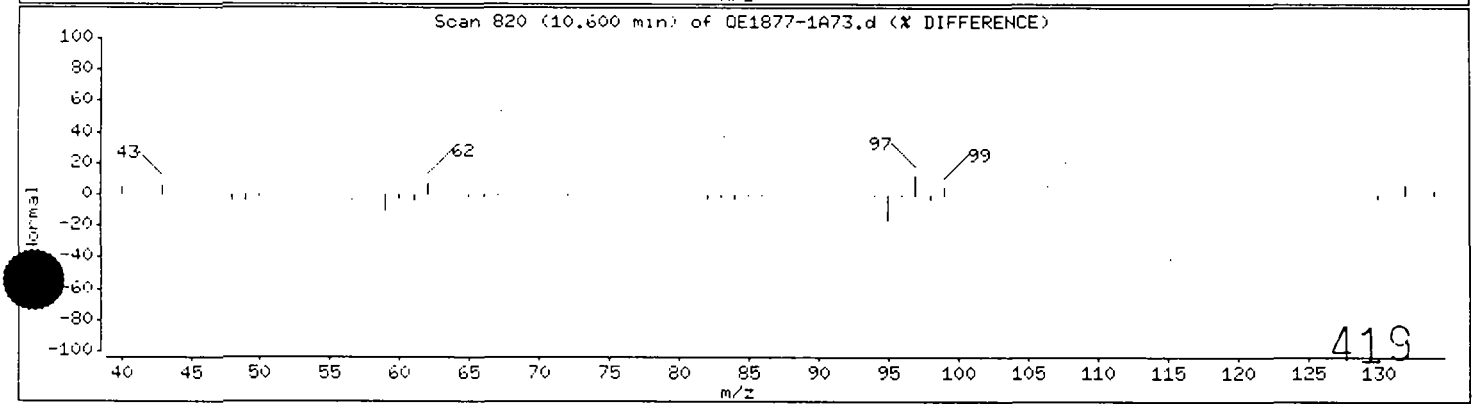
53 Trichloroethene

Concentration: 0.0798 ug/L









Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-1A73.d

Date : 07-MAR-2002 14:23

Client ID: MW-7A

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

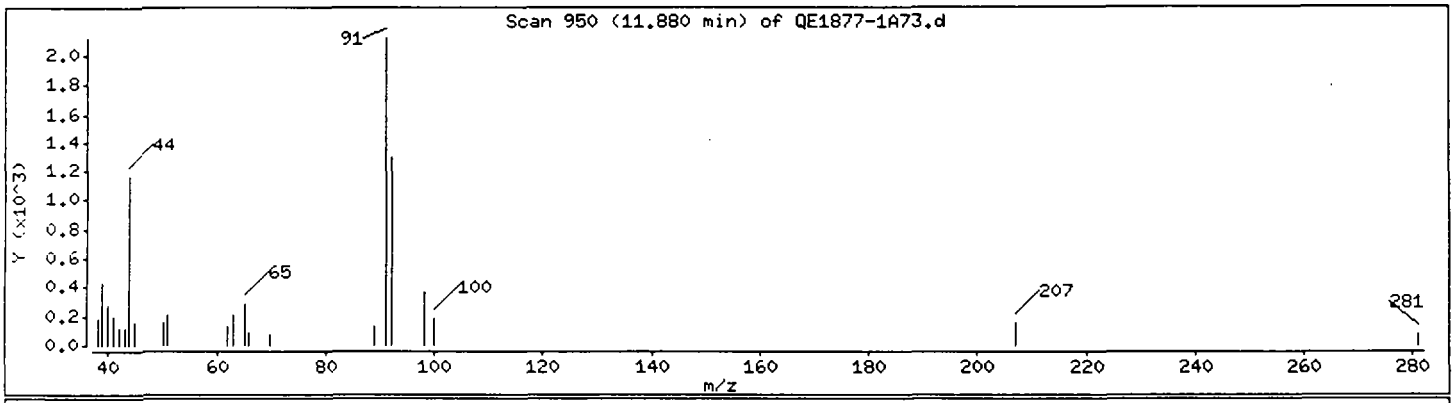
Operator: 2429

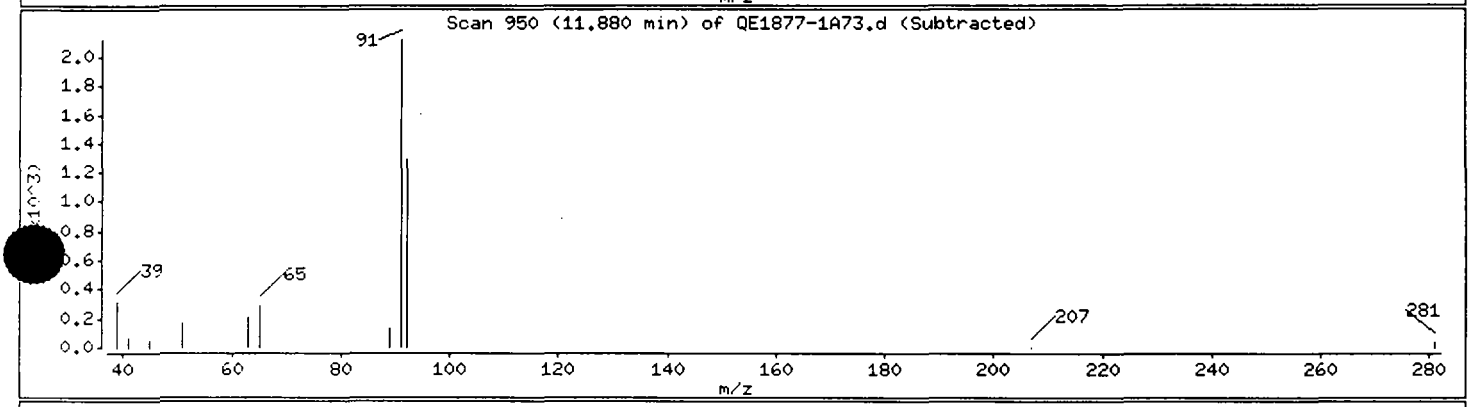
Column phase: ZB-624

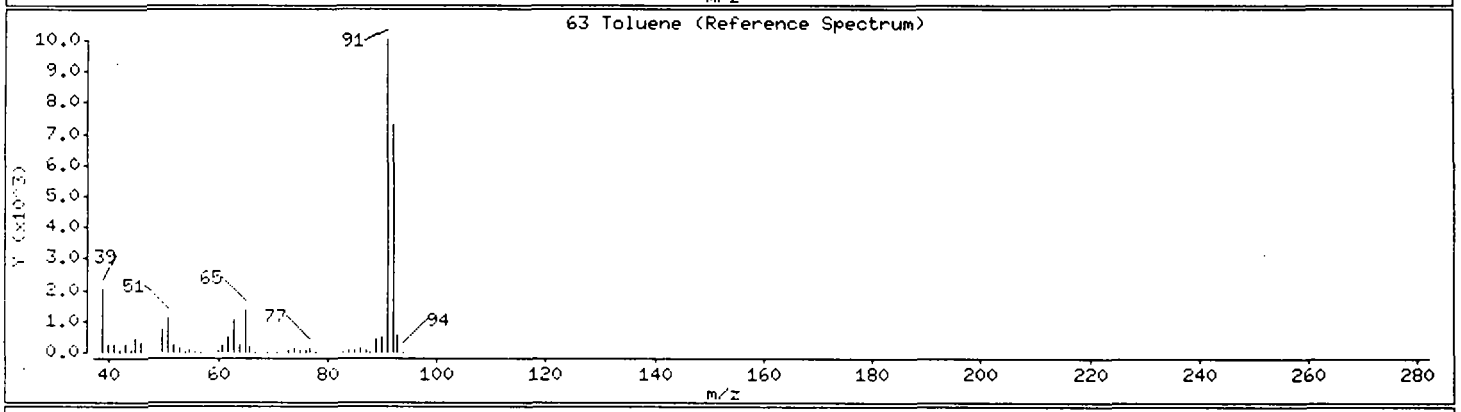
Column diameter: 0.32

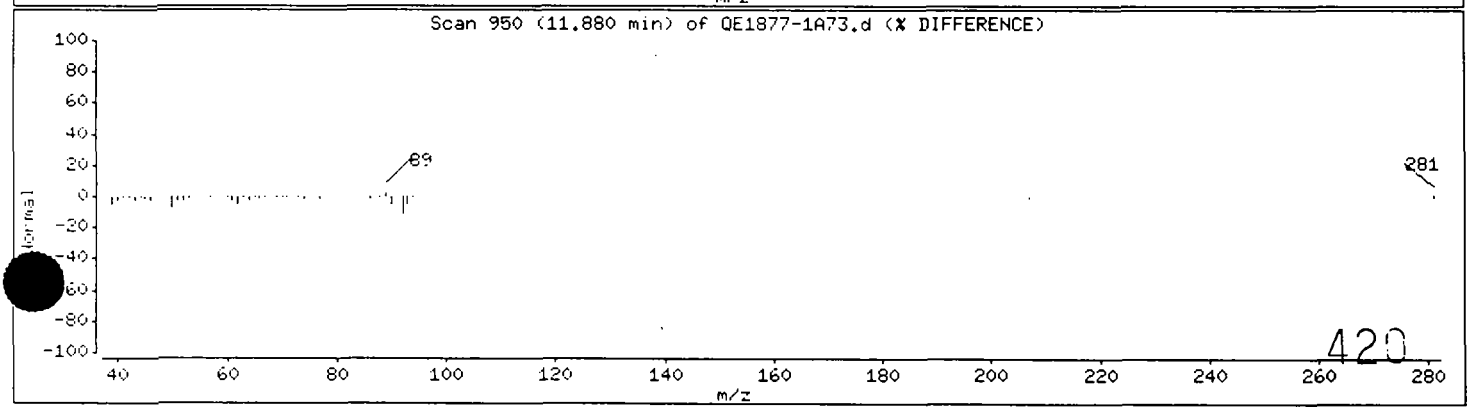
63 Toluene

Concentration: 0.0582 ug/L









420

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-7B

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: QE1877-2

Sample wt/vol: 25 (g/ml) ML Lab File ID: QE1877-2A73

Level: (low/med) LOW Date Received: 03/06/02

% Moisture: not dec. _____ Date Analyzed: 03/07/02

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-35-4	1,1-Dichloroethene	16	
75-15-0	Carbon disulfide	0.5	U
67-64-1	Acetone	3	B
75-09-2	Methylene Chloride	0.1	J
156-60-5	trans-1,2-Dichloroethene	0.05	J
75-34-3	1,1-Dichloroethane	5	
156-59-2	cis-1,2-Dichloroethene	0.1	J
78-93-3	2-butanone	3	U
67-66-3	Chloroform	0.03	JB
71-55-6	1,1,1-Trichloroethane	5	
56-23-5	Carbon Tetrachloride	0.5	U
71-43-2	Benzene	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.1	J
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	3	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.1	J
127-18-4	Tetrachloroethene	0.6	
591-78-6	2-hexanone	3	U
124-48-1	Dibromochloromethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.5	U
108-38-3	m,p-Xylene	1	U
95-47-6	o-Xylene	0.5	U
100-42-5	Styrene	0.5	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-7B

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: QE1877-2

Sample wt/vol: 25 (g/ml) ML Lab File ID: QE1877-2A73

Level: (low/med) LOW Date Received: 03/06/02

% Moisture: not dec. _____ Date Analyzed: 03/07/02

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

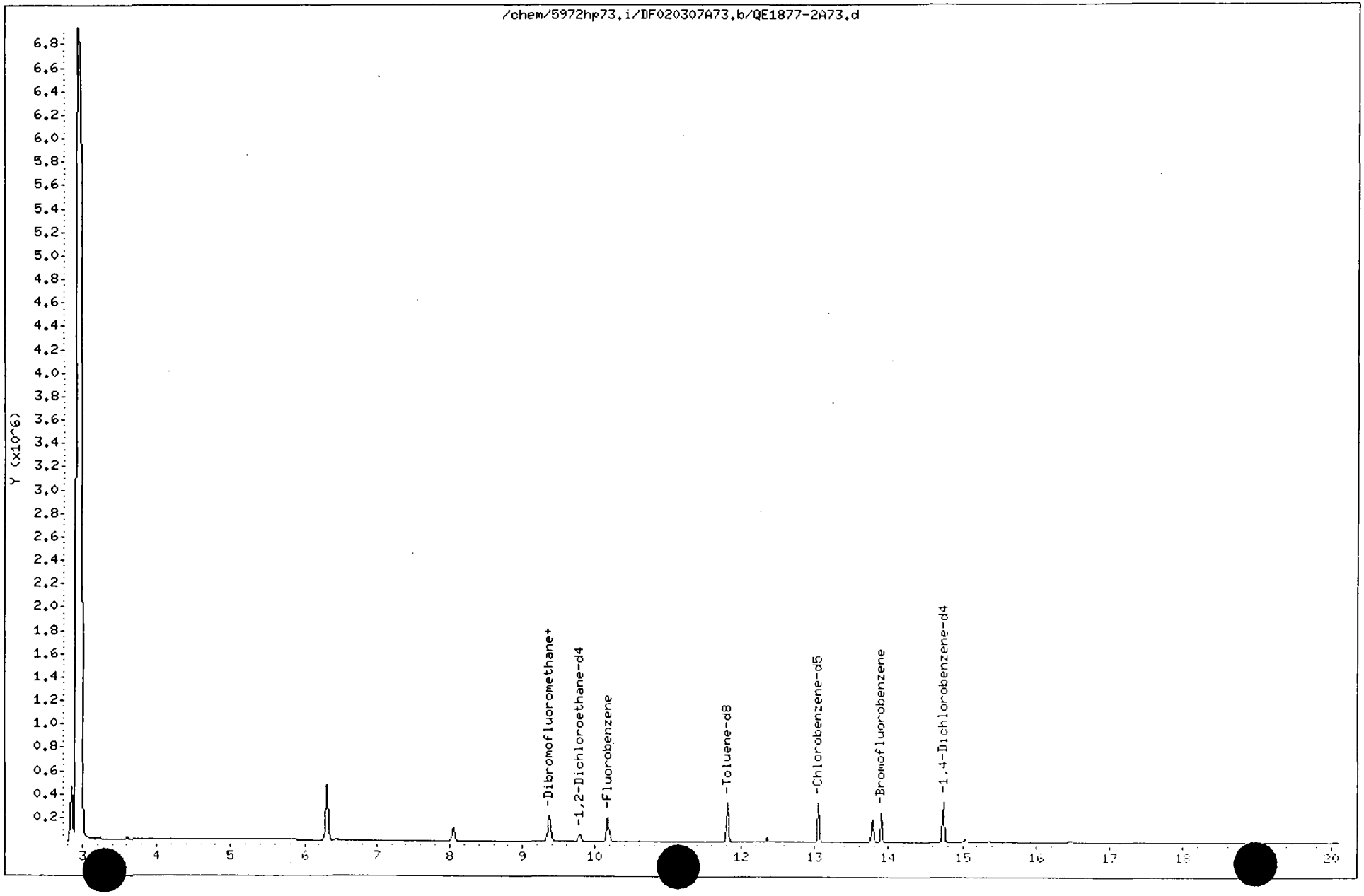
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-25-2	Bromoform	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
1330-20-7	Xylene (total)	0.5	U

Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-2A73.d
Date : 07-MAR-2002 14:50
Client ID: MW-7B
Sample Info:
Purge Volume: 25.0
Column phase: ZB-624

Instrument: 5972hp73.i

Operator: 2429
Column diameter: 0.32



Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-2A73.d
Report Date: 08-Mar-2002 15:51

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF020307A73.b/QE1877-2A73.d
Lab Smp Id: QE1877-2 Client Smp ID: MW-7B
Inj Date : 07-MAR-2002 14:50
Operator : 2429 Inst ID: 5972hp73.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp73.i/DF020307A73.b/W8260-B-25MLv6.m
Meth Date : 08-Mar-2002 13:55 hubbard Quant Type: ISTD
Cal Date : 22-FEB-2002 22:50 Cal File: CY020222B73.d
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL3CT.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

nd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	10.174	10.169	(1.000)	229917	125.000	
* 2 Chlorobenzene-d5	117	13.058	13.053	(1.000)	174569	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.741	14.736	(1.000)	86747	125.000	
$ 4 Dibromofluoromethane	113	9.357	9.352	(0.920)	70477	132.170	5.29
$ 5 1,2-Dichloroethane-d4	65	9.780	9.775	(0.961)	55820	123.276	4.93
$ 6 Toluene-d8	98	11.818	11.813	(0.905)	220776	126.096	5.04
$ 7 Bromofluorobenzene	95	13.904	13.899	(0.943)	79517	126.809	5.07
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
16 1,1-Dichloroethene	96	6.316	6.301	(0.621)	253748	410.580	16.42
21 Carbon disulfide	76	Compound Not Detected.					
18 Acetone	43	6.444	6.439	(0.633)	8076	85.4747	3.42
24 Methylene Chloride	84	7.103	7.088	(0.698)	2129	3.60134	0.144(a)
27 trans-1,2-Dichloroethene	96	7.467	7.453	(0.734)	894	1.37318	0.0549(a)

sa H 3/8/02

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Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-2A73.d
Report Date: 08-Mar-2002 15:51

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
30 1,1-Dichloroethane	63	8.048	8.043	(0.791)	153840	126.860	5.07
34 cis-1,2-Dichloroethene	96	8.776	8.771	(0.863)	1491	2.37714	0.0951(a)
37 2-butanone	43	Compound Not Detected.					
42 Chloroform	83	9.150	9.145	(0.899)	753	0.63469	0.0254(a)
43 1,1,1-Trichloroethane	97	9.367	9.362	(0.921)	128585	115.090	4.60
48 Carbon Tetrachloride	117	Compound Not Detected.					
51 Benzene	78	Compound Not Detected.					
49 1,2-Dichloroethane	62	Compound Not Detected.					
53 Trichloroethene	130	10.597	10.592	(1.042)	2451	3.43737	0.137(a)
55 1,2-Dichloropropane	63	Compound Not Detected.					
59 Bromodichloromethane	83	Compound Not Detected.					
61 cis-1,3-Dichloropropene	75	Compound Not Detected.					
62 4-Methyl-2-pentanone	43	Compound Not Detected.					
63 Toluene	92	Compound Not Detected.					
64 trans-1,3-Dichloropropene	75	Compound Not Detected.					
65 1,1,2-Trichloroethane	97	12.251	12.246	(0.938)	985	3.27512	0.131(a)
68 Tetrachloroethene	164	12.369	12.364	(0.947)	9136	15.8717	0.635
69 2-hexanone	43	Compound Not Detected.					
70 Dibromochloromethane	129	Compound Not Detected.					
72 Chlorobenzene	112	Compound Not Detected.					
75 Ethylbenzene	106	Compound Not Detected.					
76 m,p-Xylene	106	Compound Not Detected.					
77 o-Xylene	106	Compound Not Detected.					
78 Styrene	104	Compound Not Detected.					
79 Bromoform	173	Compound Not Detected.					
[illegible] 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
M-107 Xylene (total)	106	Compound Not Detected.					

QC Flag Legend

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

Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-2A73.d

Date : 07-MAR-2002 14:50

Client ID: MW-7B

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

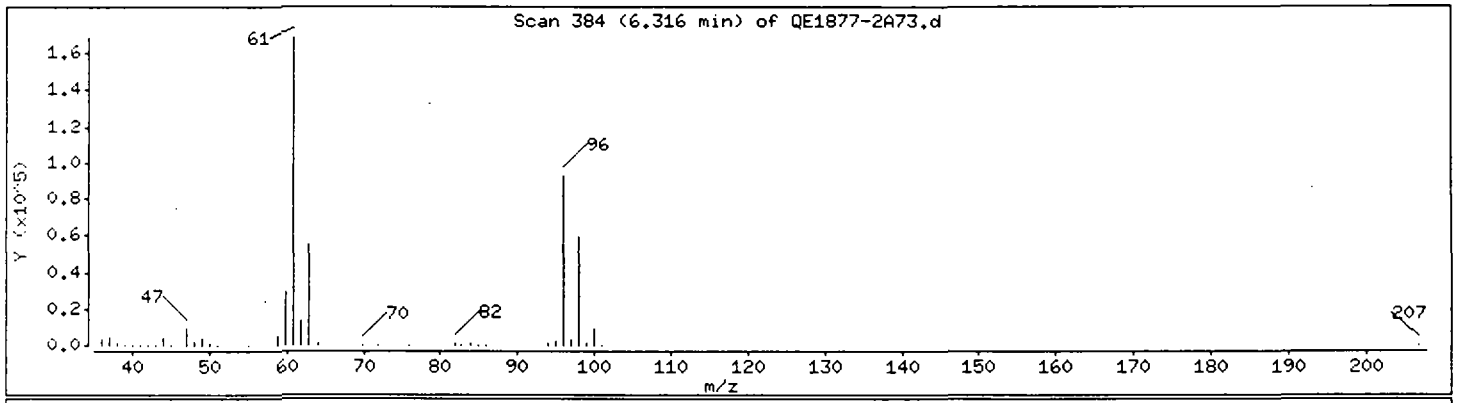
Operator: 2429

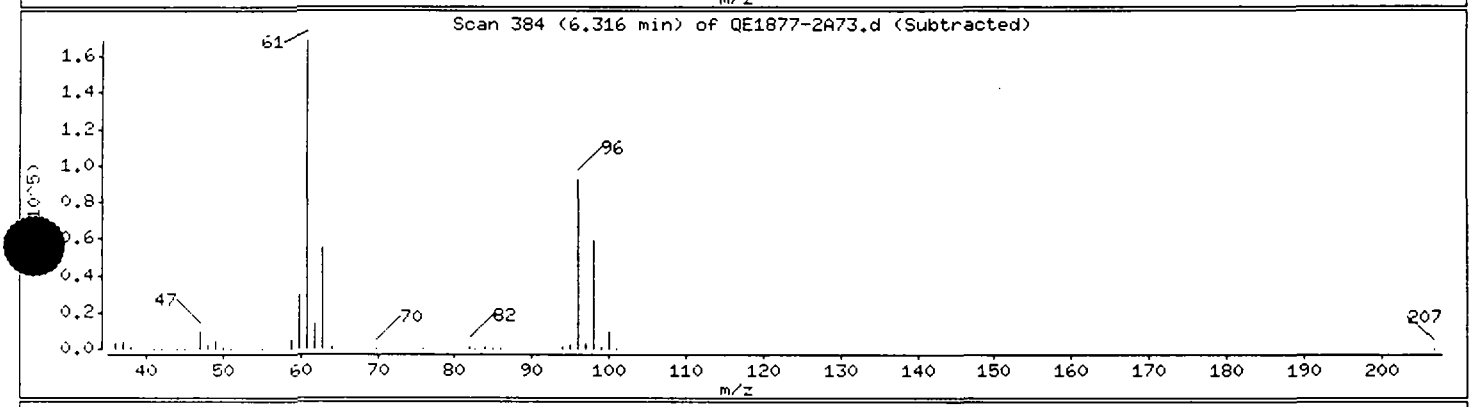
Column phase: ZB-624

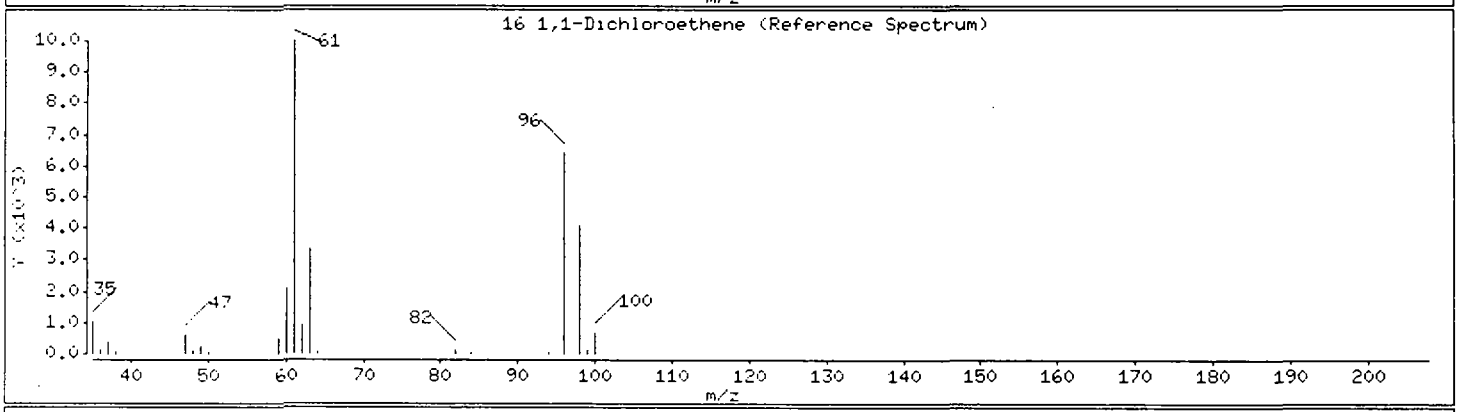
Column diameter: 0.32

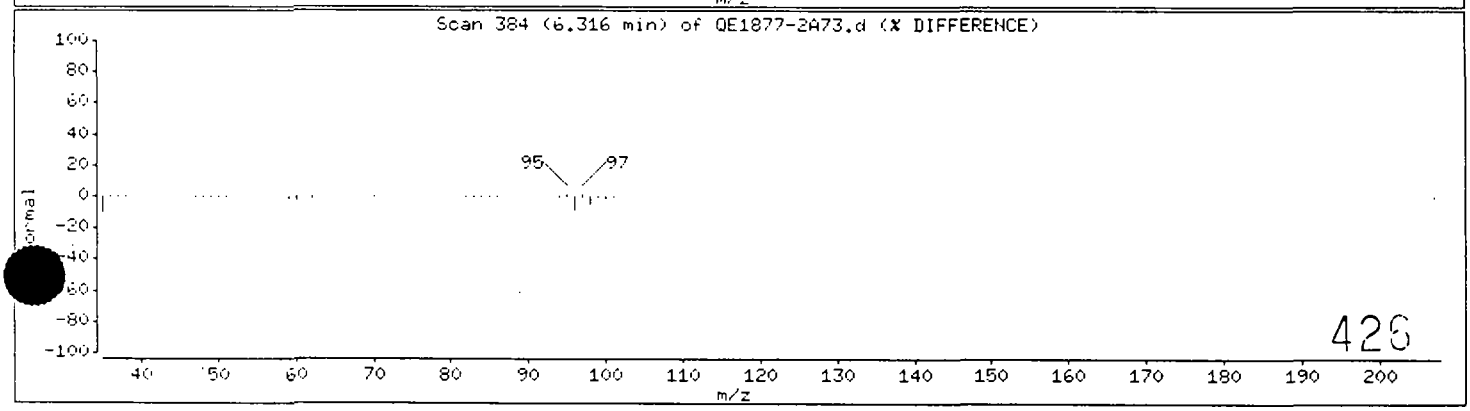
16 1,1-Dichloroethene

Concentration: 16.42 ug/L









426

Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-2A73.d

Date : 07-MAR-2002 14:50

Client ID: MW-7B

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

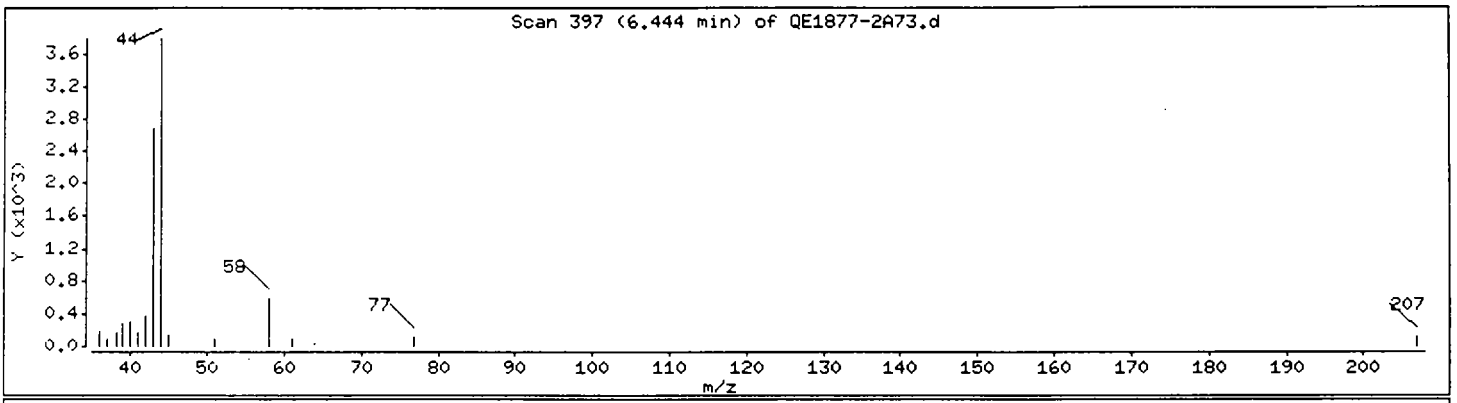
Operator: 2429

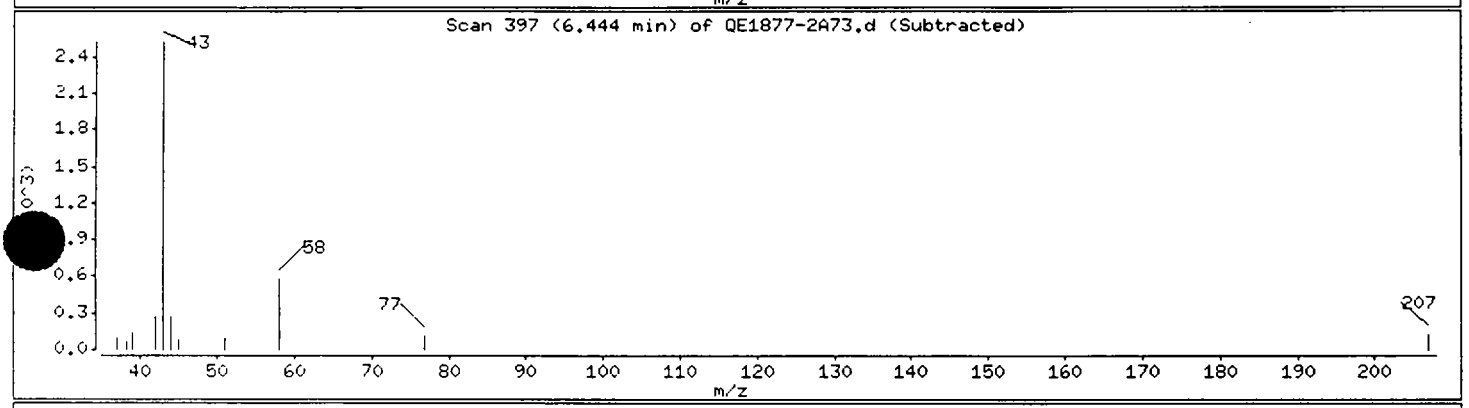
Column phase: ZB-624

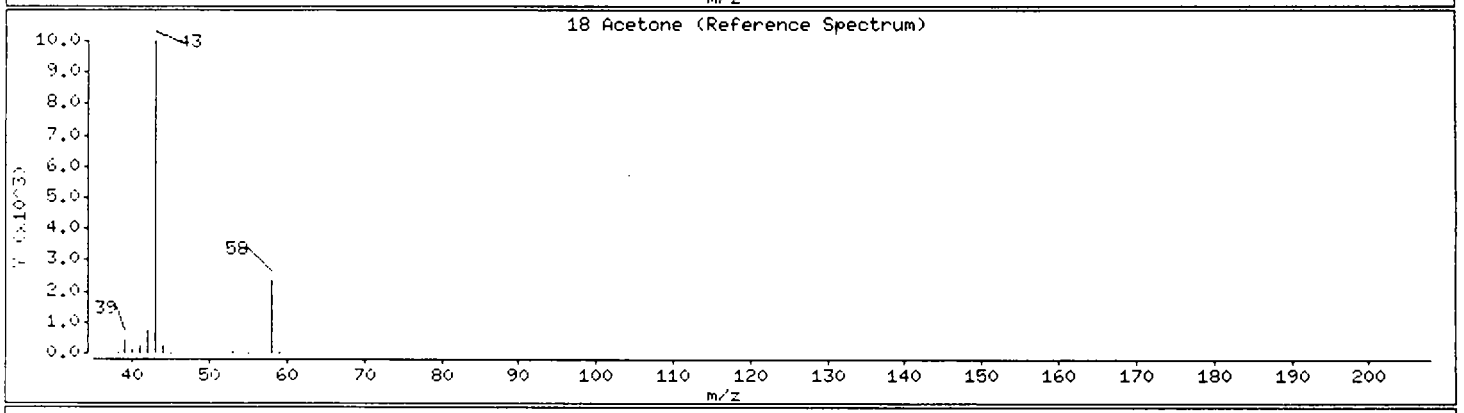
Column diameter: 0.32

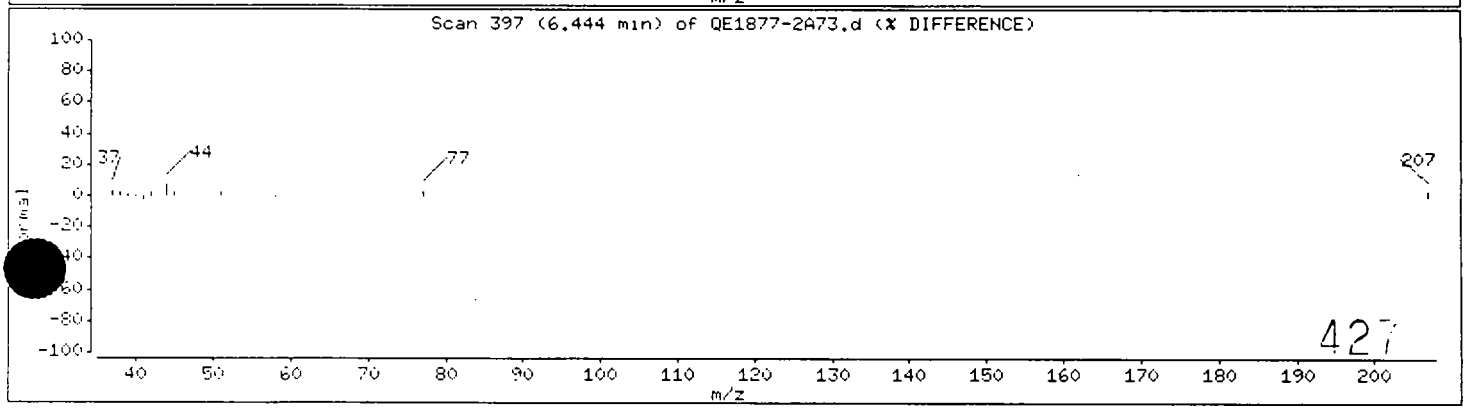
18 Acetone

Concentration: 3.42 ug/L









427

Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-2A73.d

Date : 07-MAR-2002 14:50

Client ID: MW-7B

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

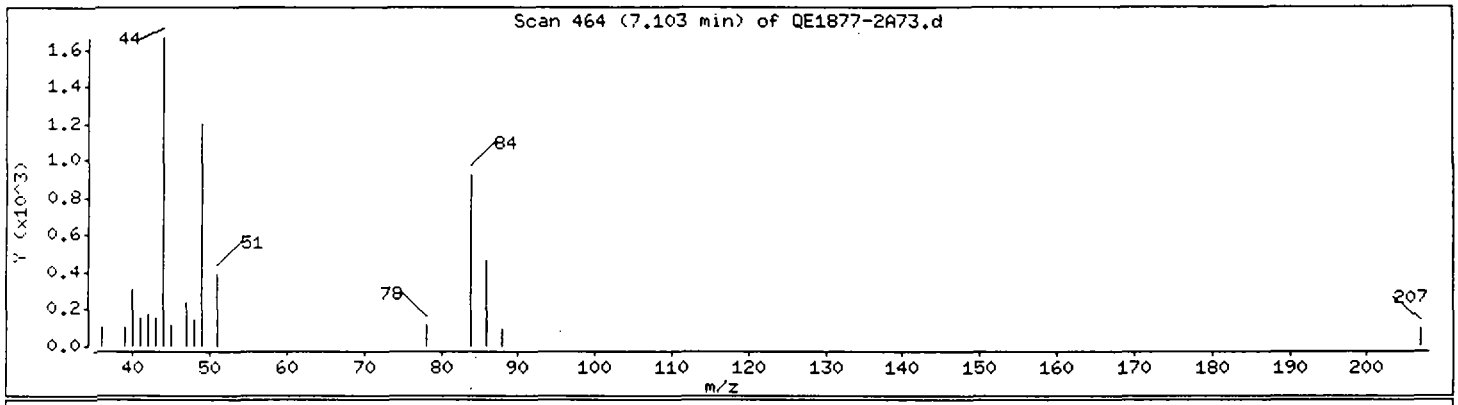
Operator: 2429

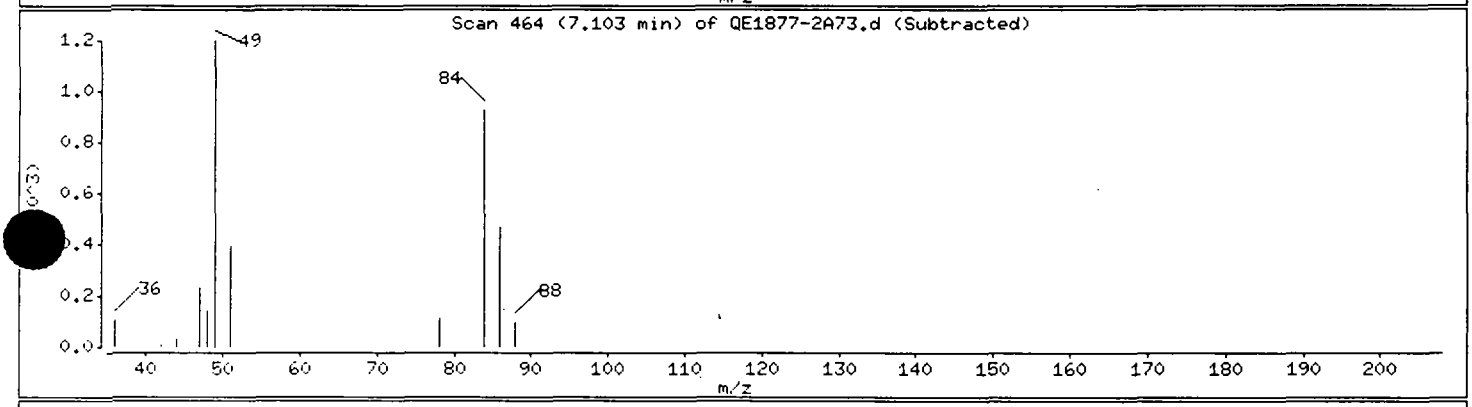
Column phase: ZB-624

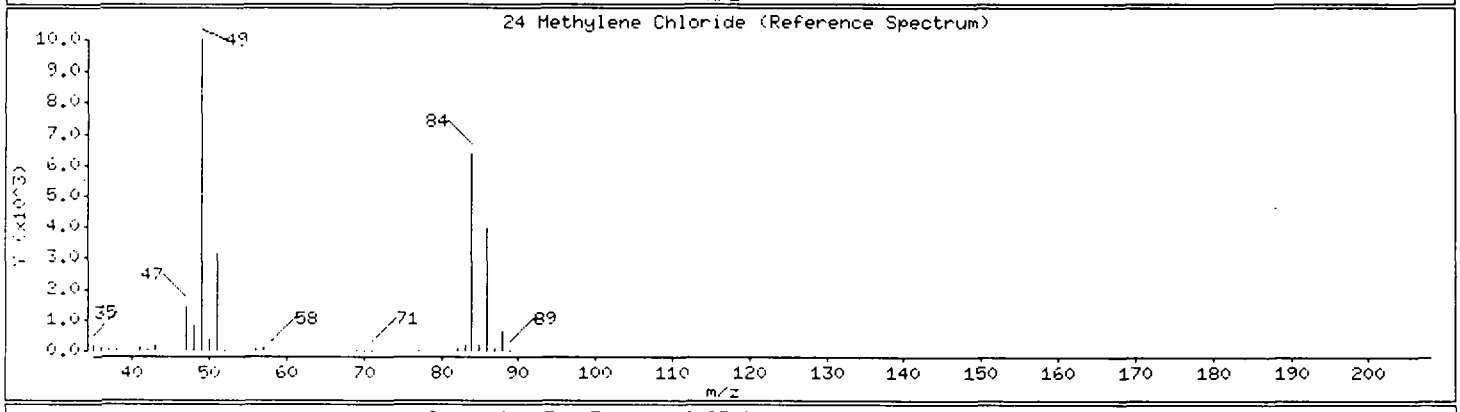
Column diameter: 0.32

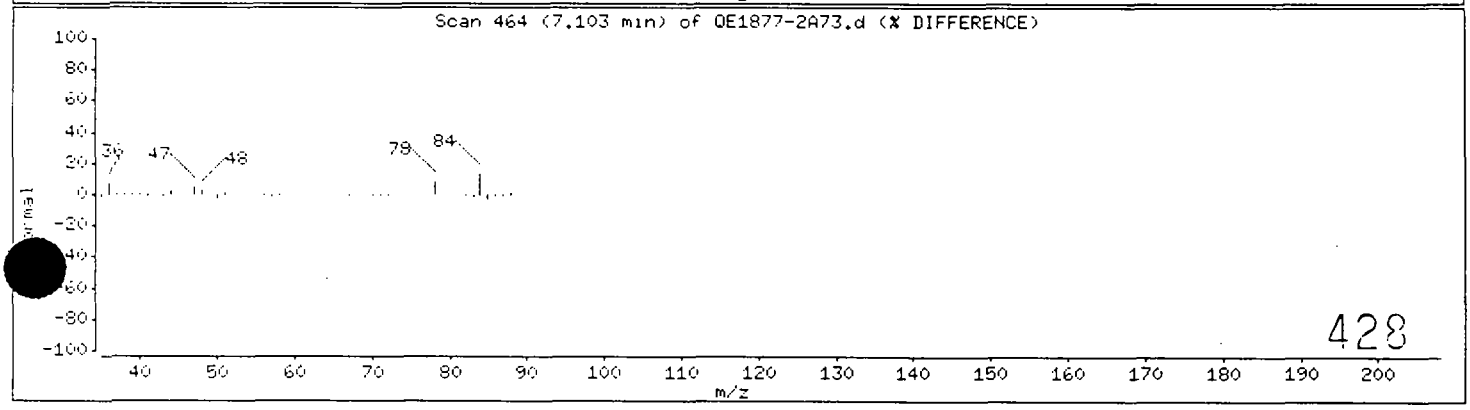
24 Methylene Chloride

Concentration: 0.144 ug/L









428

Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-2A73.d

Date : 07-MAR-2002 14:50

Client ID: MW-7B

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

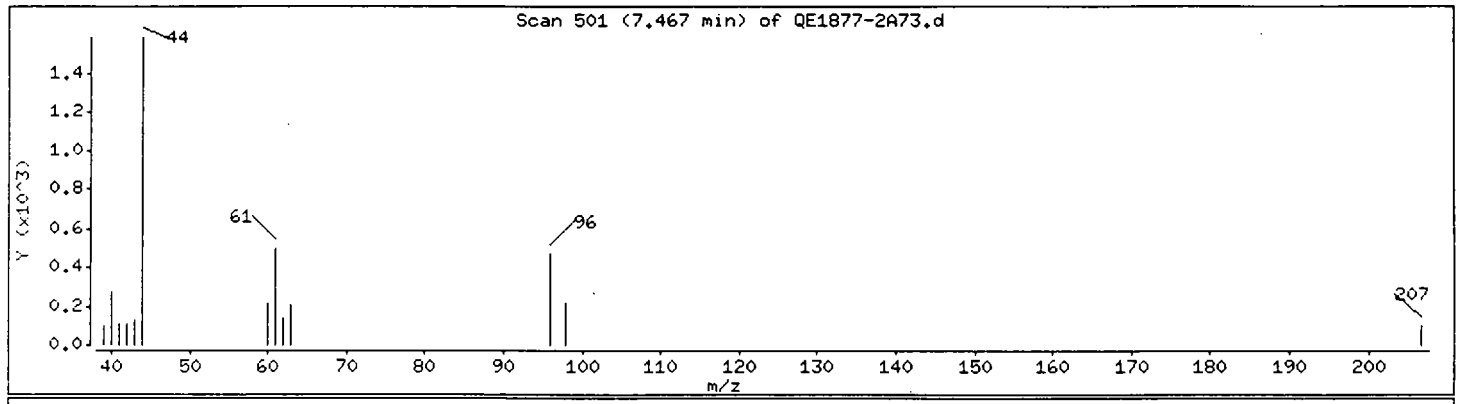
Operator: 2429

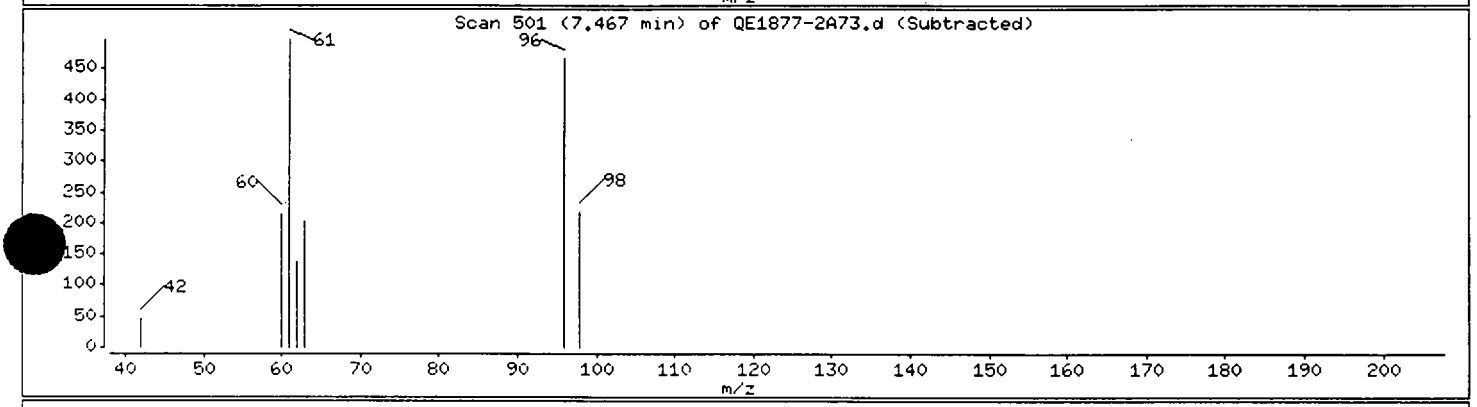
Column phase: ZB-624

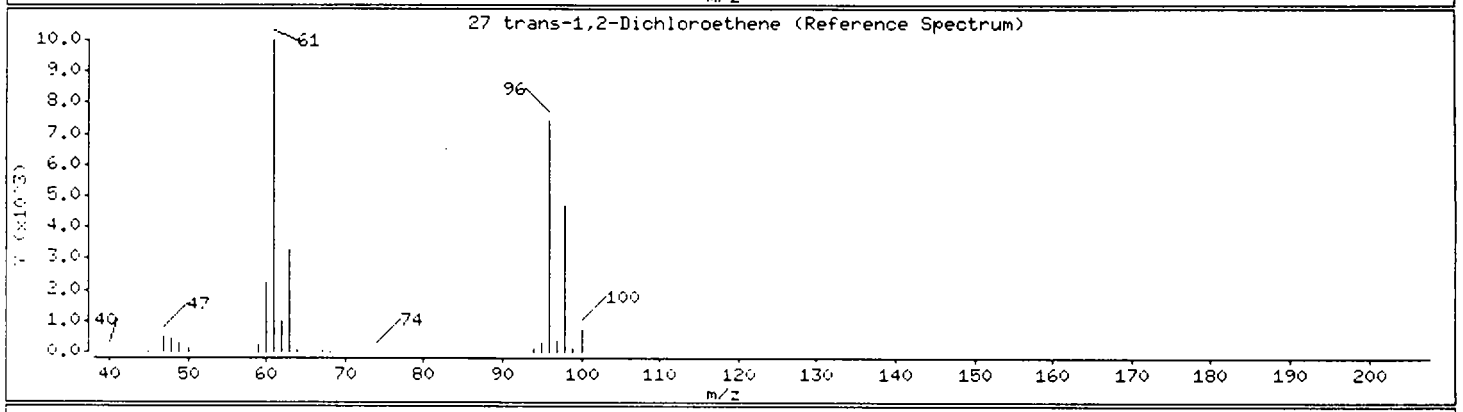
Column diameter: 0.32

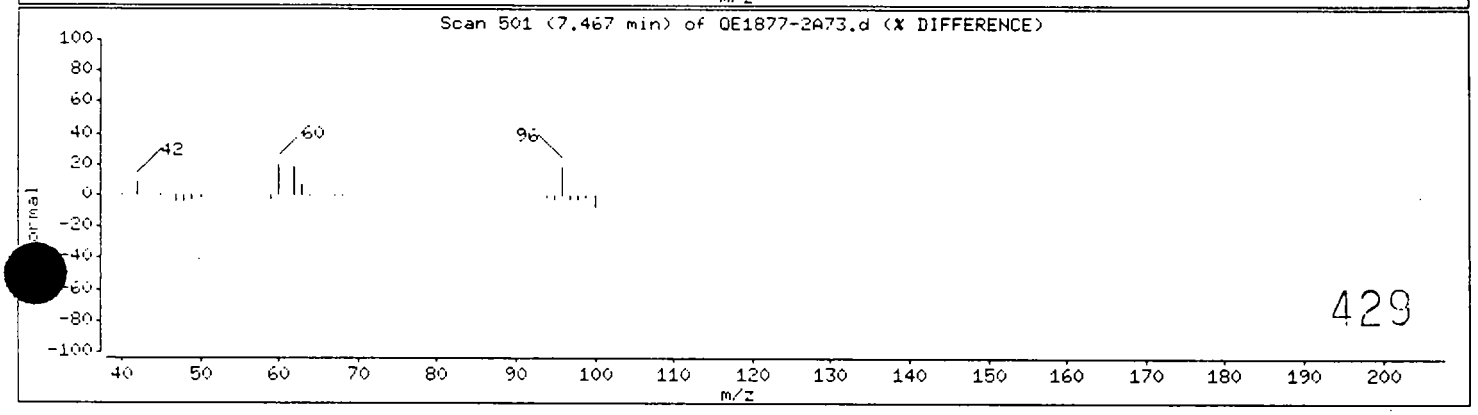
27 trans-1,2-Dichloroethene

Concentration: 0.0549 ug/L









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Date : 07-MAR-2002 14:50

Client ID: MW-7B

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

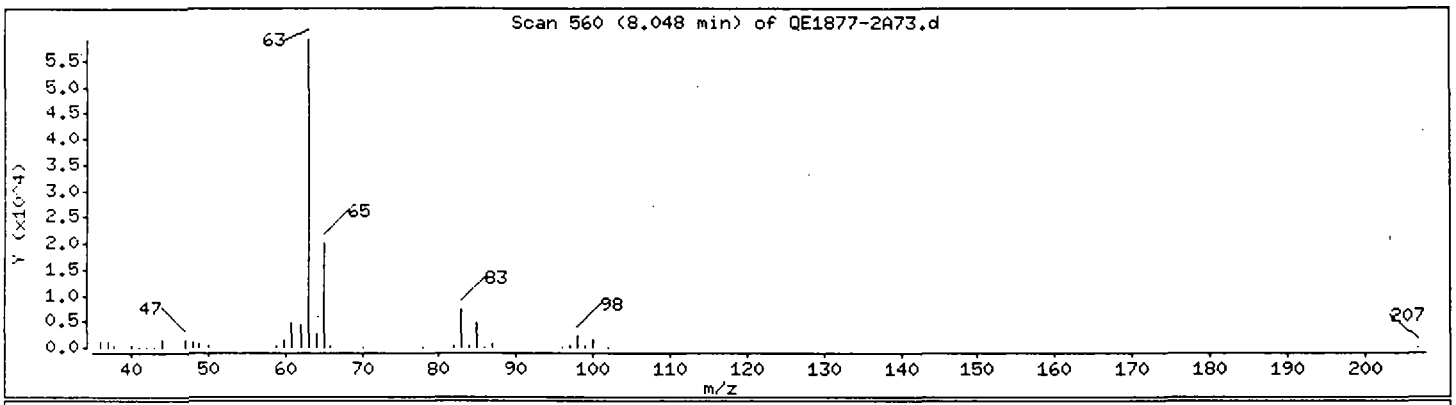
Operator: 2429

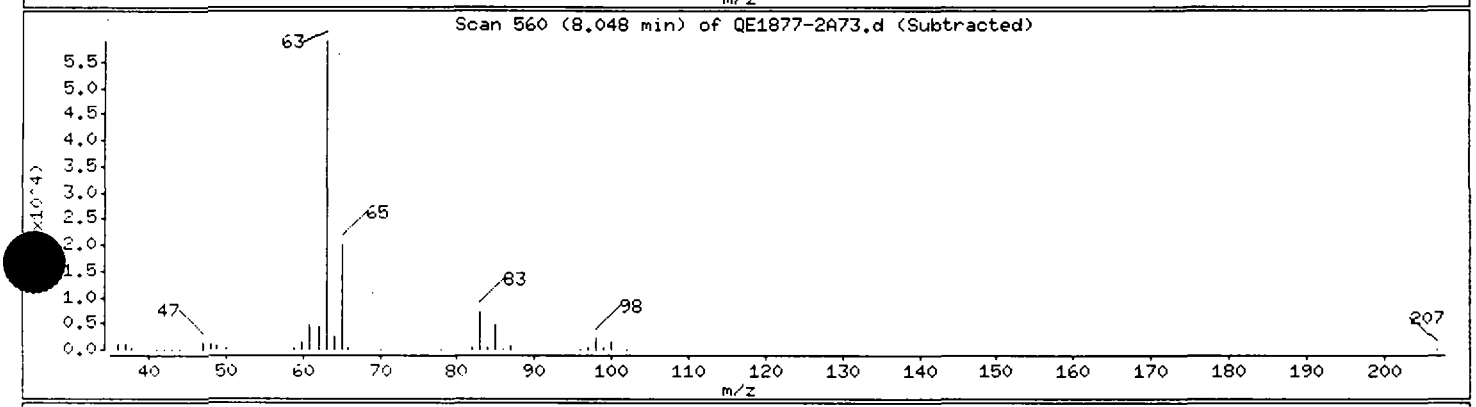
Column phase: ZB-624

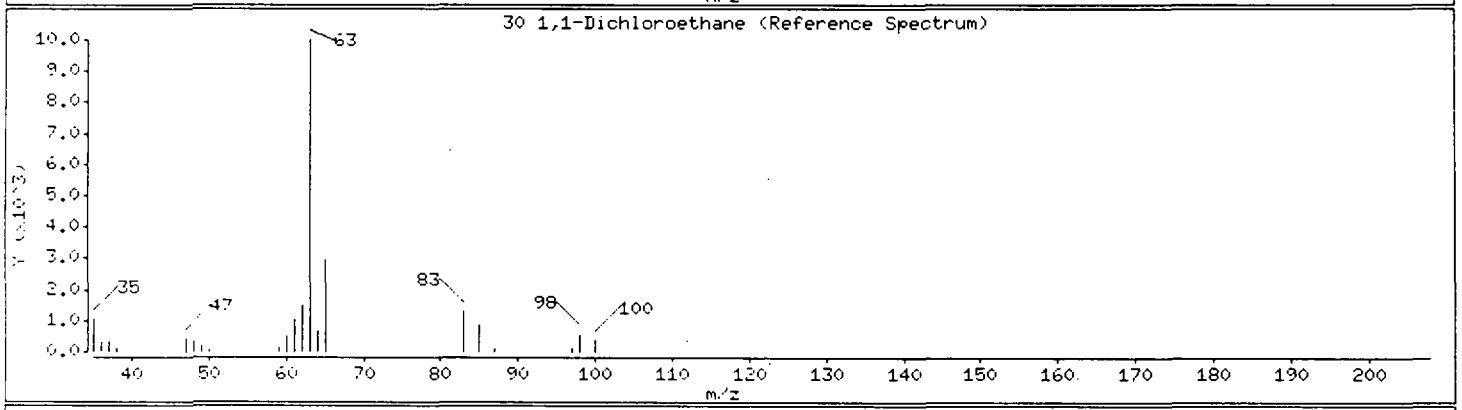
Column diameter: 0.32

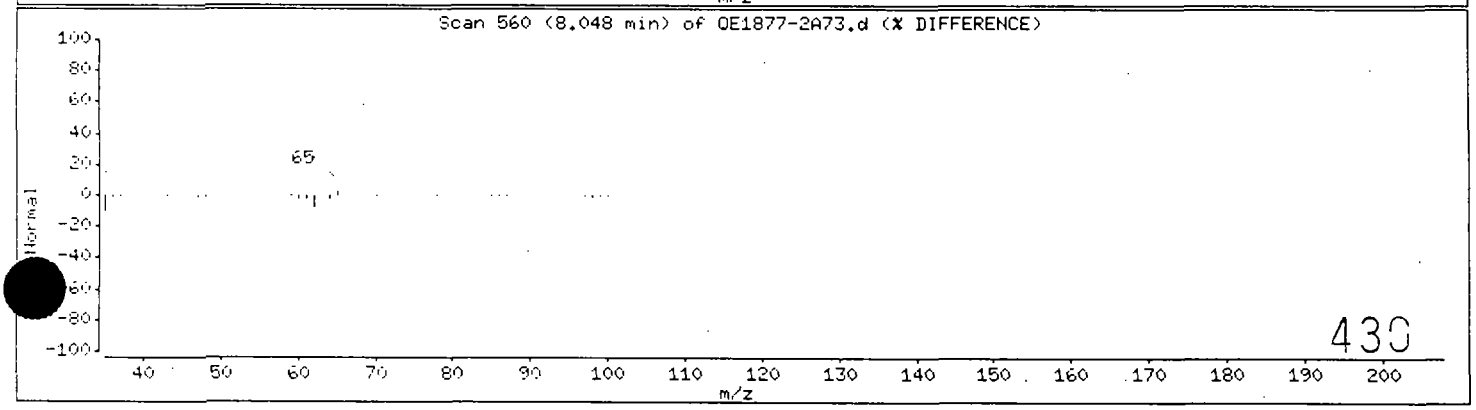
30 1,1-Dichloroethane

Concentration: 5.07 ug/L









Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-2A73.d

Date : 07-MAR-2002 14:50

Client ID: MW-7B

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

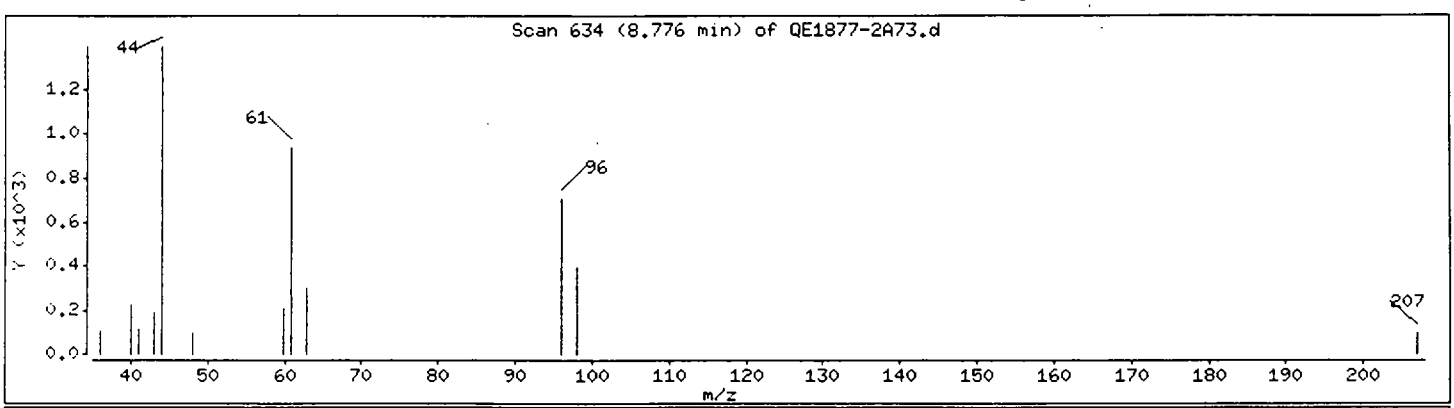
Operator: 2429

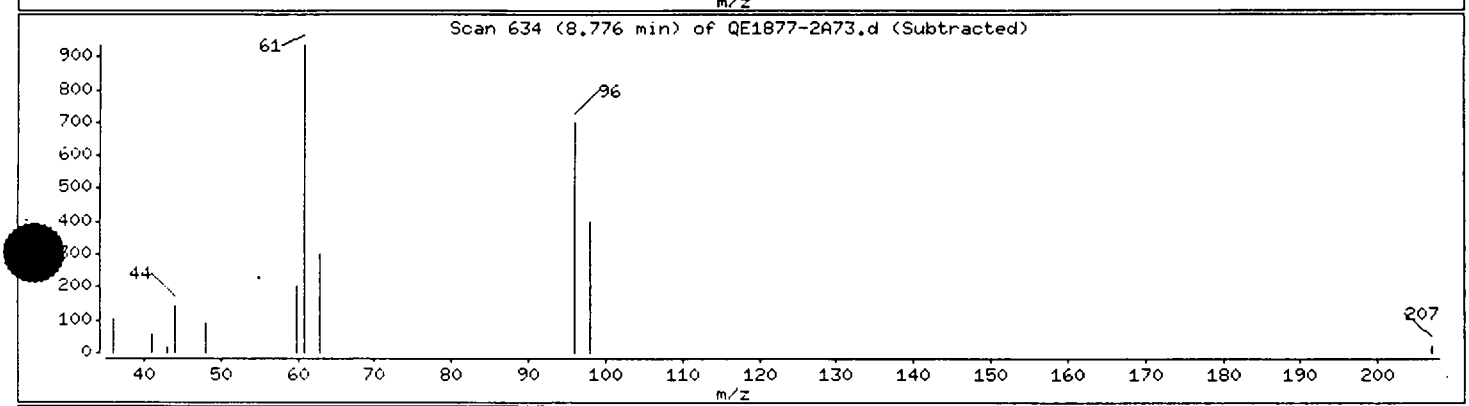
Column phase: ZB-624

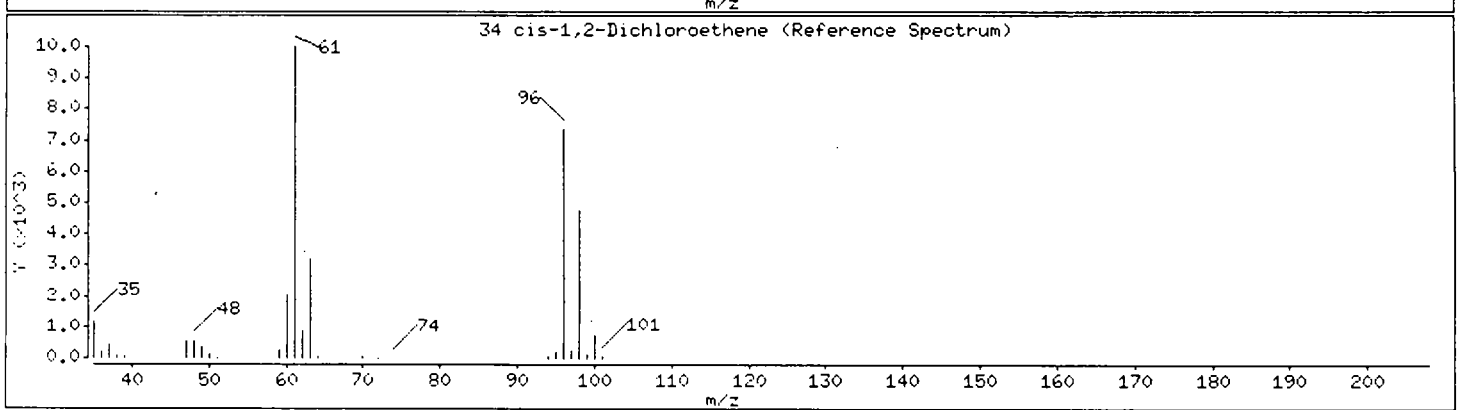
Column diameter: 0.32

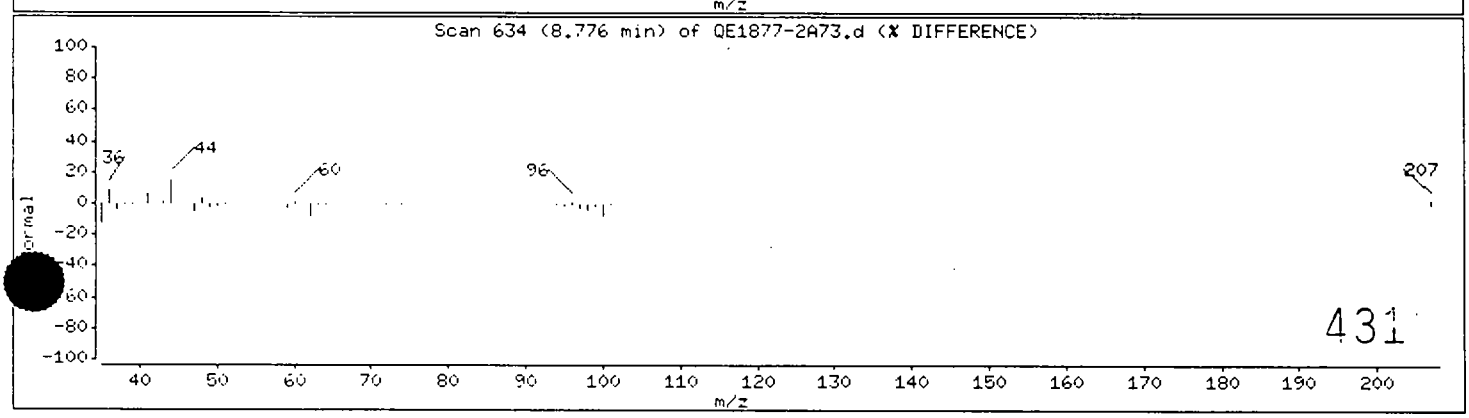
34 cis-1,2-Dichloroethene

Concentration: 0.0951 ug/L









431

Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-2A73.d

Date : 07-MAR-2002 14:50

Client ID: MW-7B

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

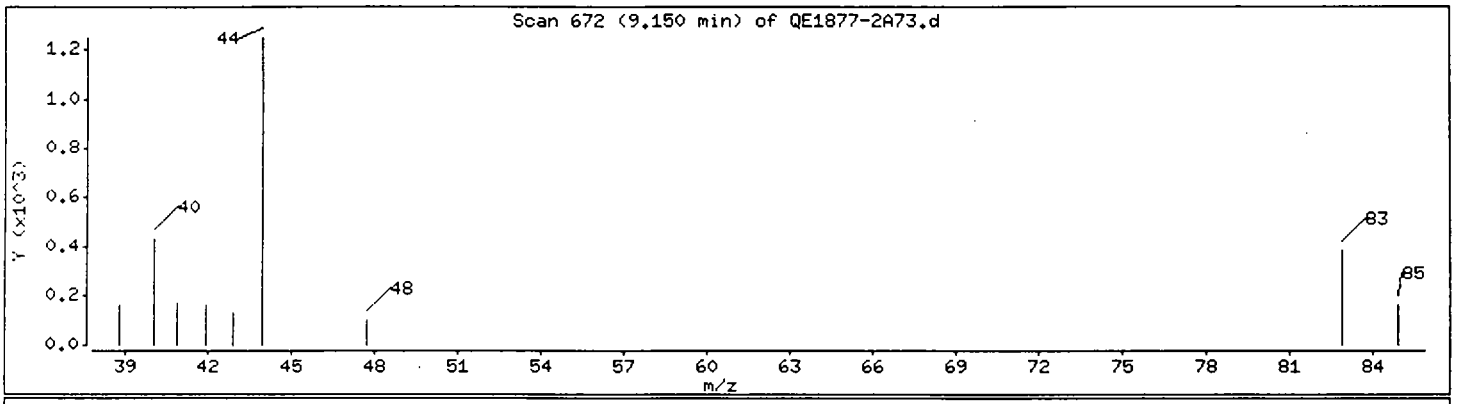
Operator: 2429

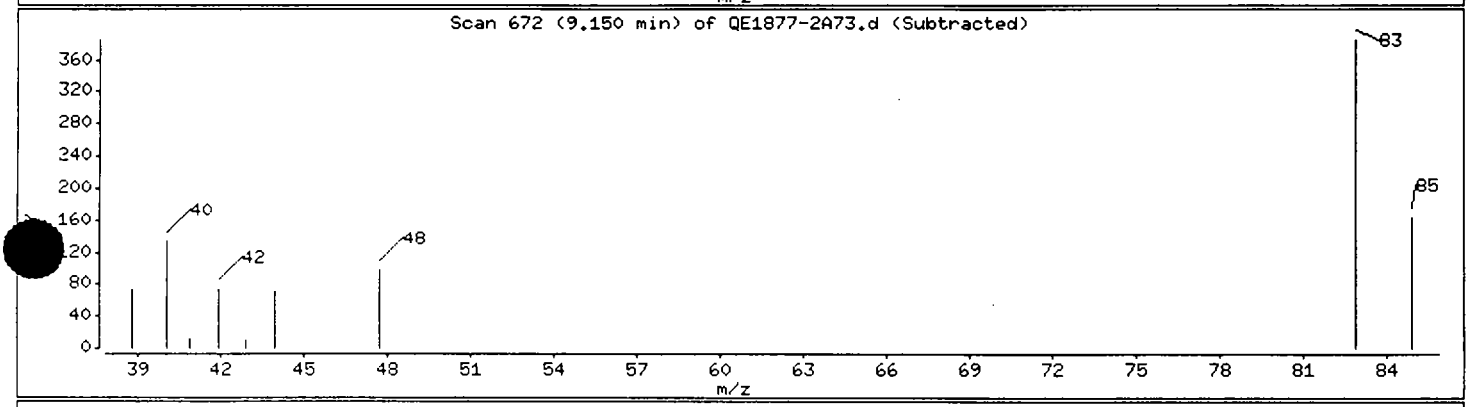
Column phase: ZB-624

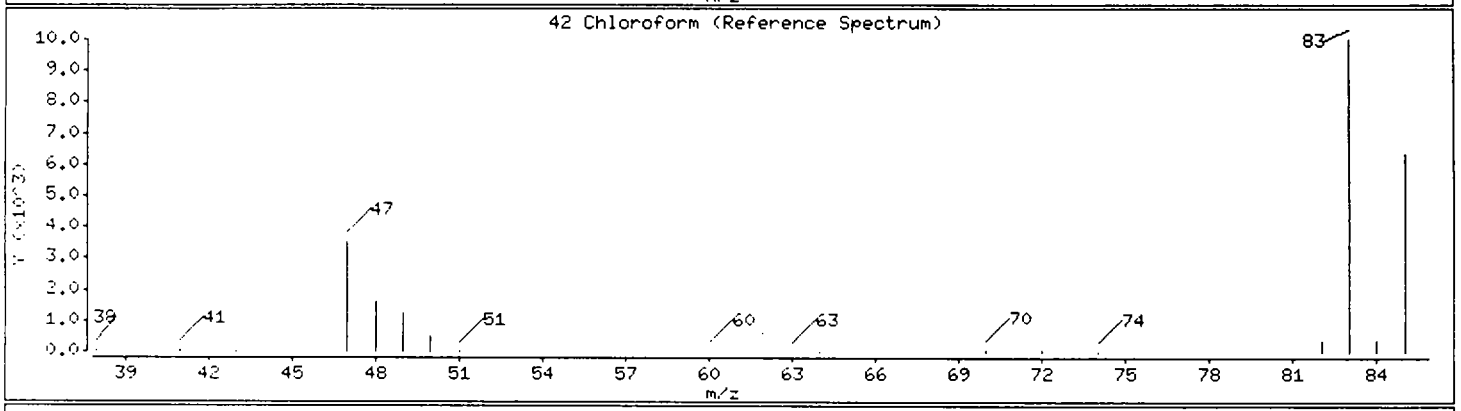
Column diameter: 0.32

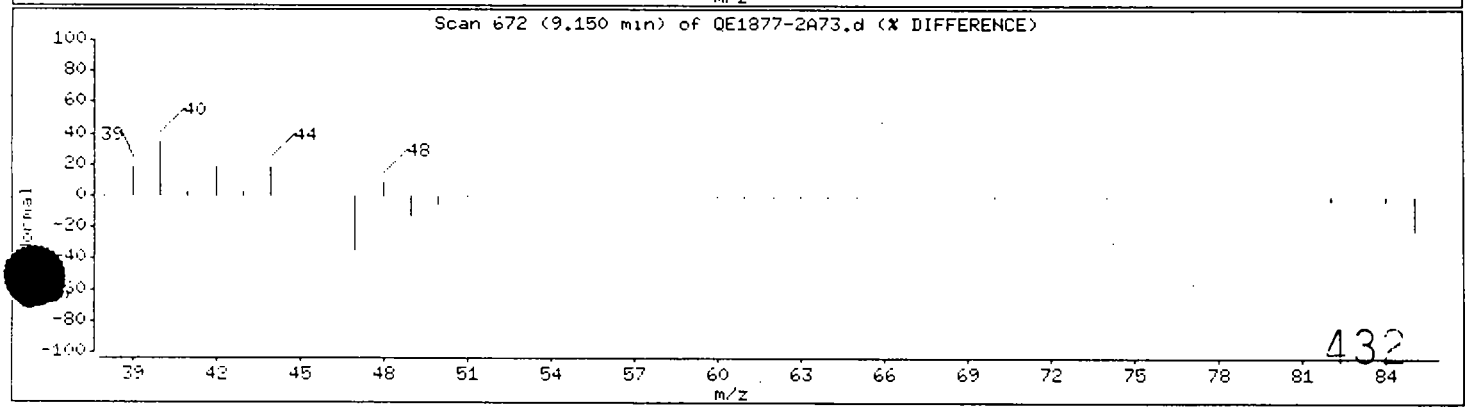
42 Chloroform

Concentration: 0.0254 ug/L









432

Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-2A73.d

Date : 07-MAR-2002 14:50

Client ID: MW-7B

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

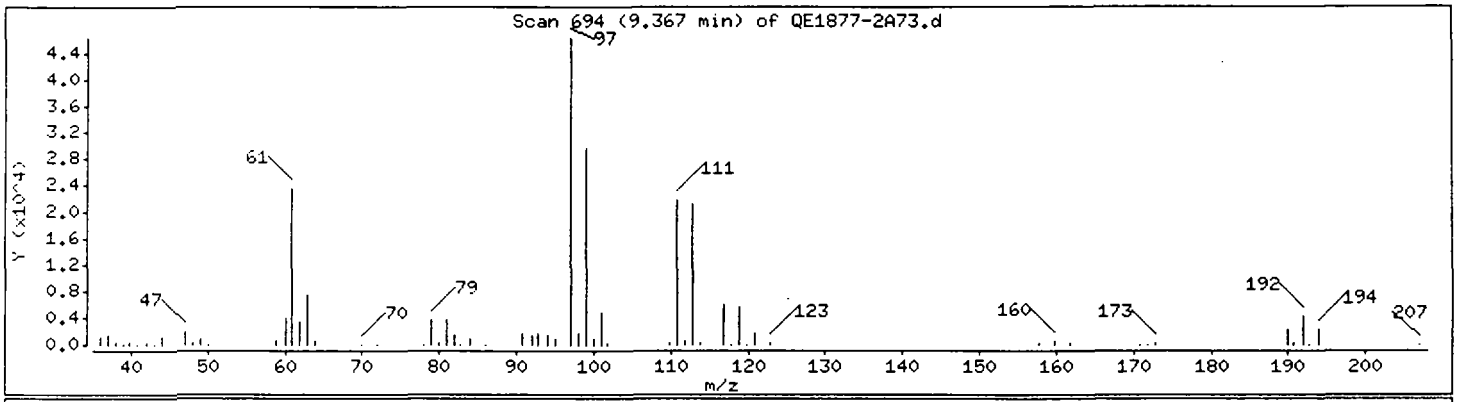
Operator: 2429

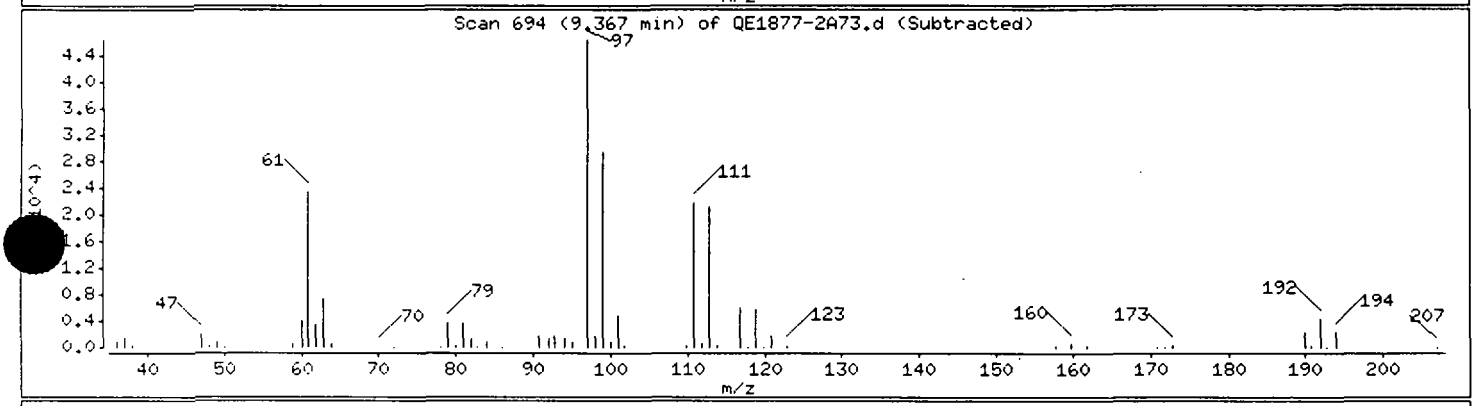
Column phase: ZB-624

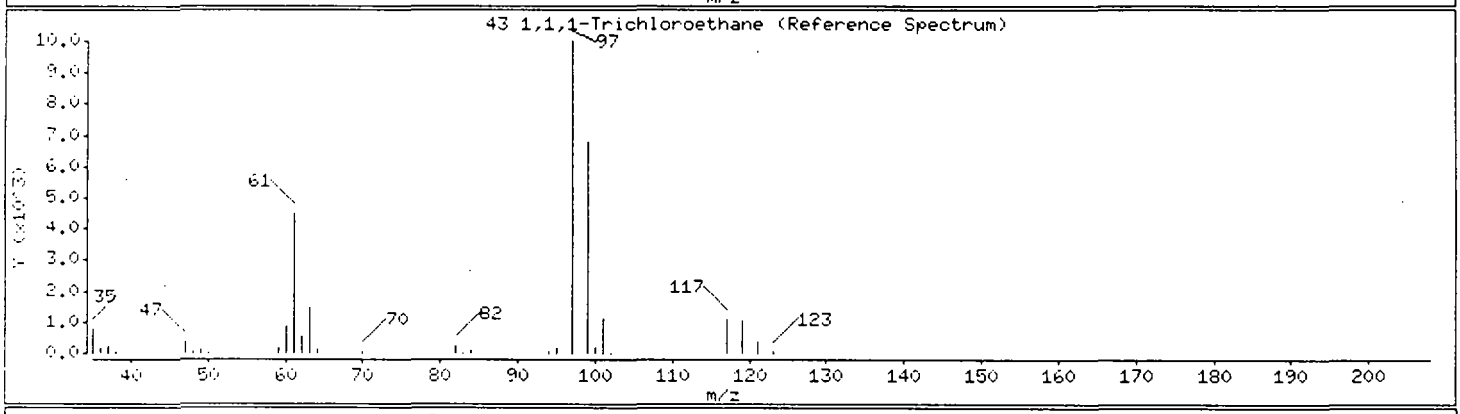
Column diameter: 0.32

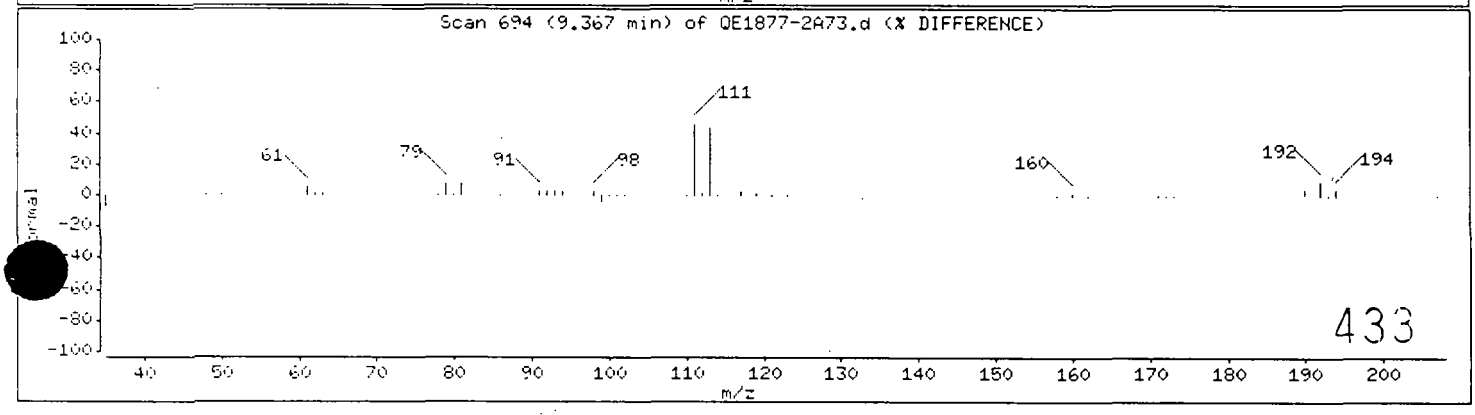
43 1,1,1-Trichloroethane

Concentration: 4.60 ug/L









Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-2A73.d

Date : 07-MAR-2002 14:50

Client ID: MW-7B

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

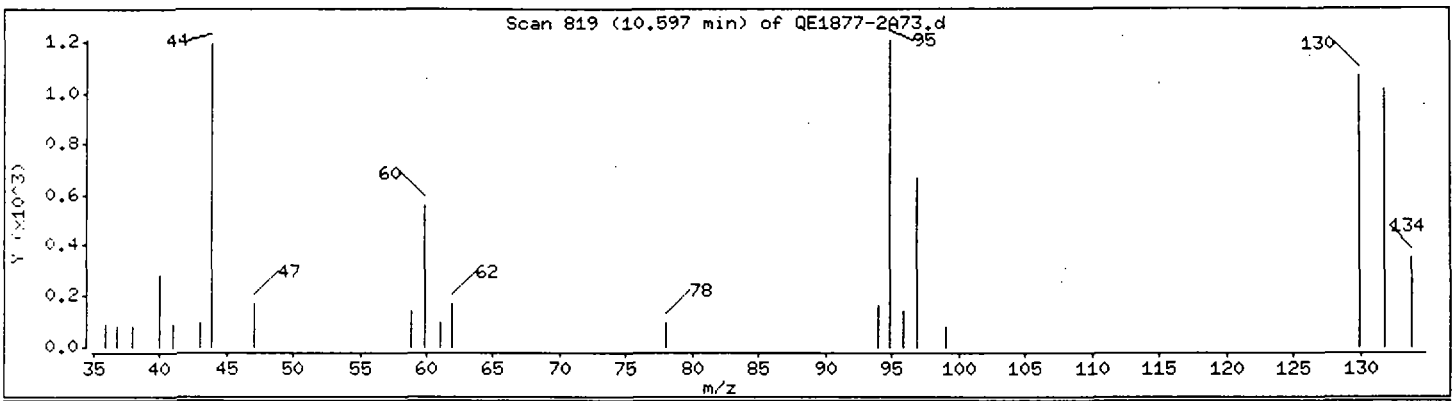
Operator: 2429

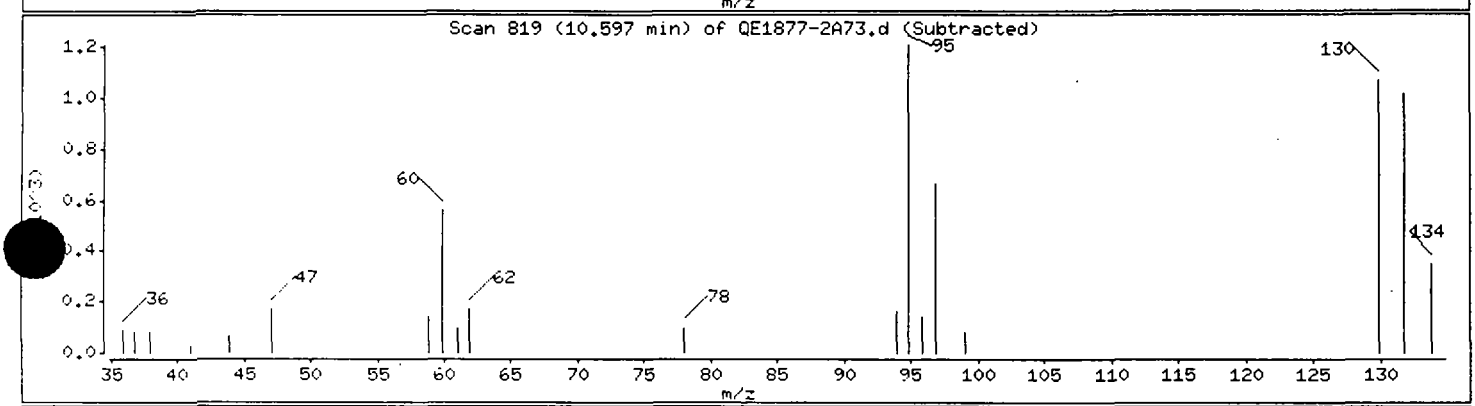
Column phase: ZB-624

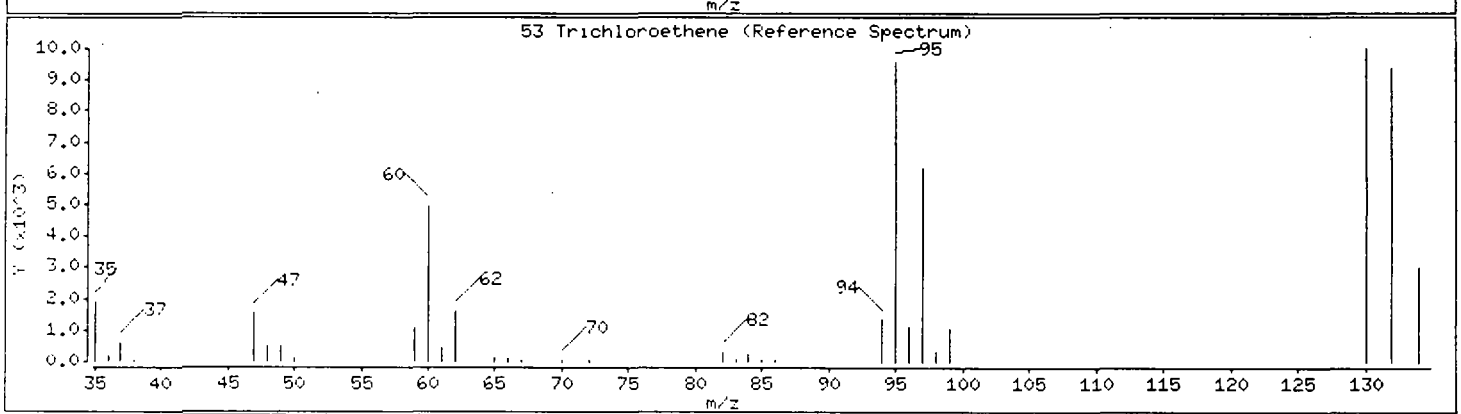
Column diameter: 0.32

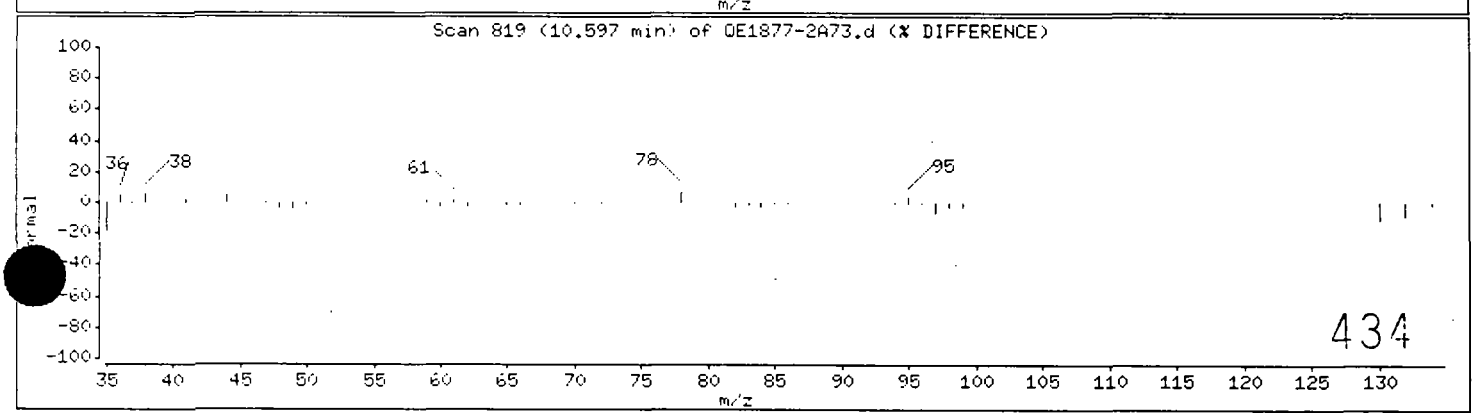
53 Trichloroethene

Concentration: 0.137 ug/L









Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-2A73.d

Date : 07-MAR-2002 14:50

Client ID: MW-7B

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

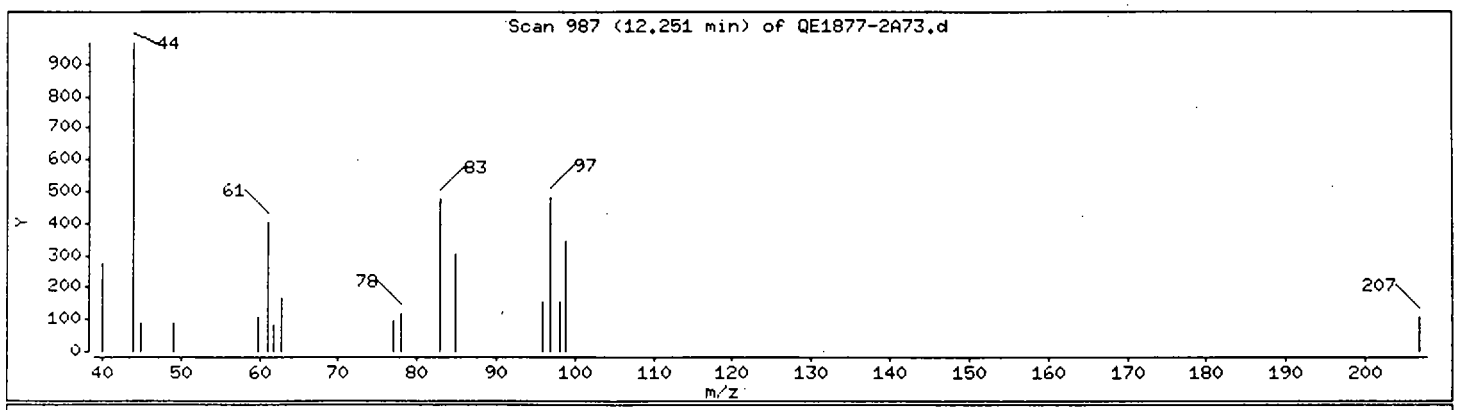
Operator: 2429

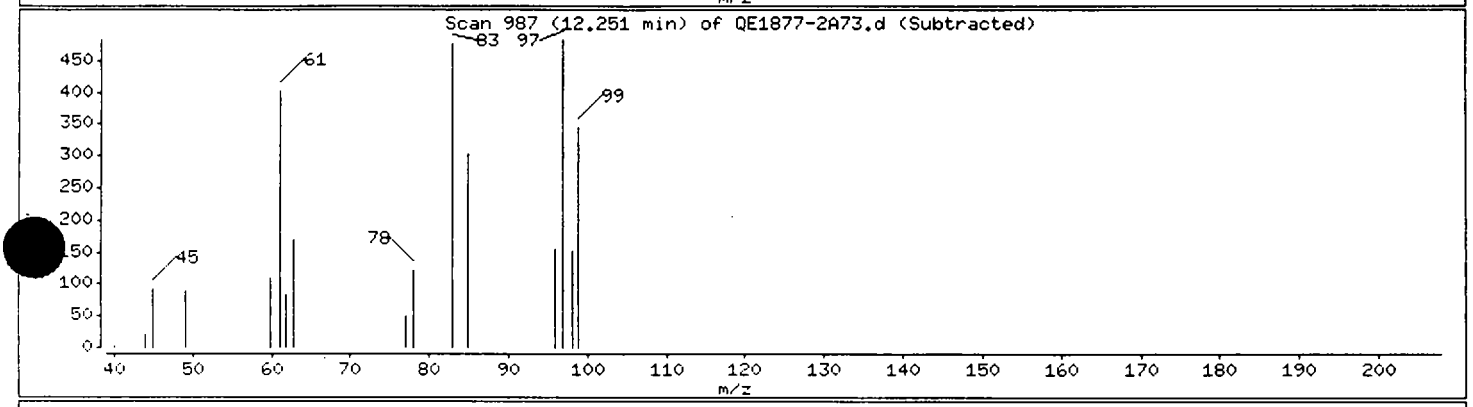
Column phase: ZB-624

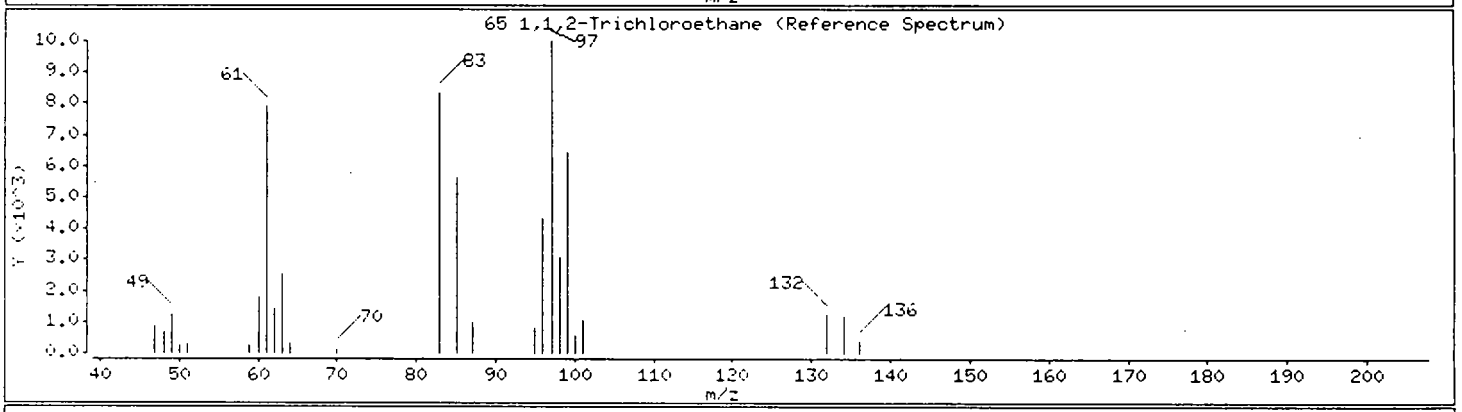
Column diameter: 0.32

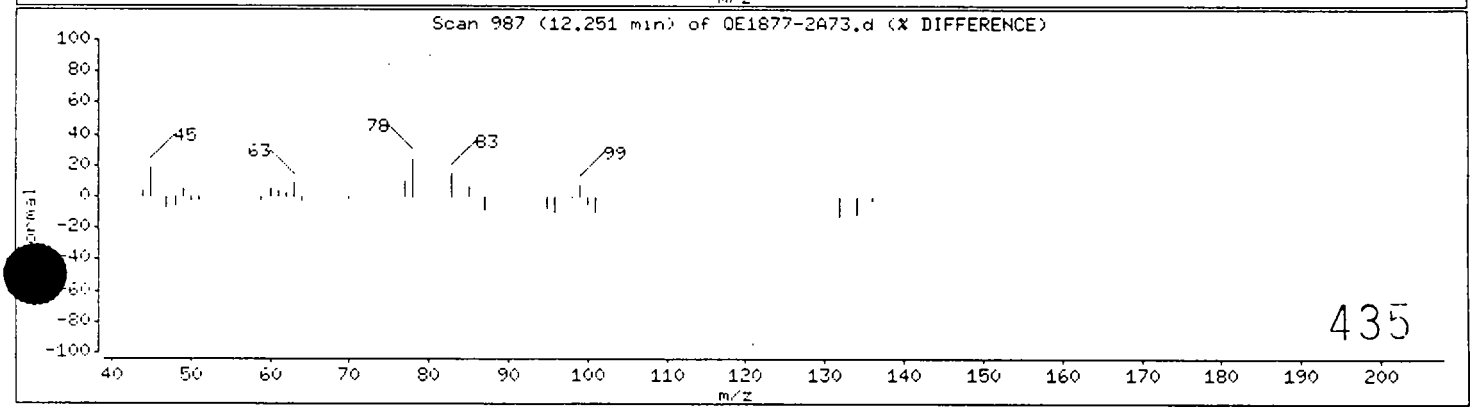
65 1,1,2-Trichloroethane

Concentration: 0.131 ug/L









Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-2A73.d

Date : 07-MAR-2002 14:50

Client ID: MW-7B

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

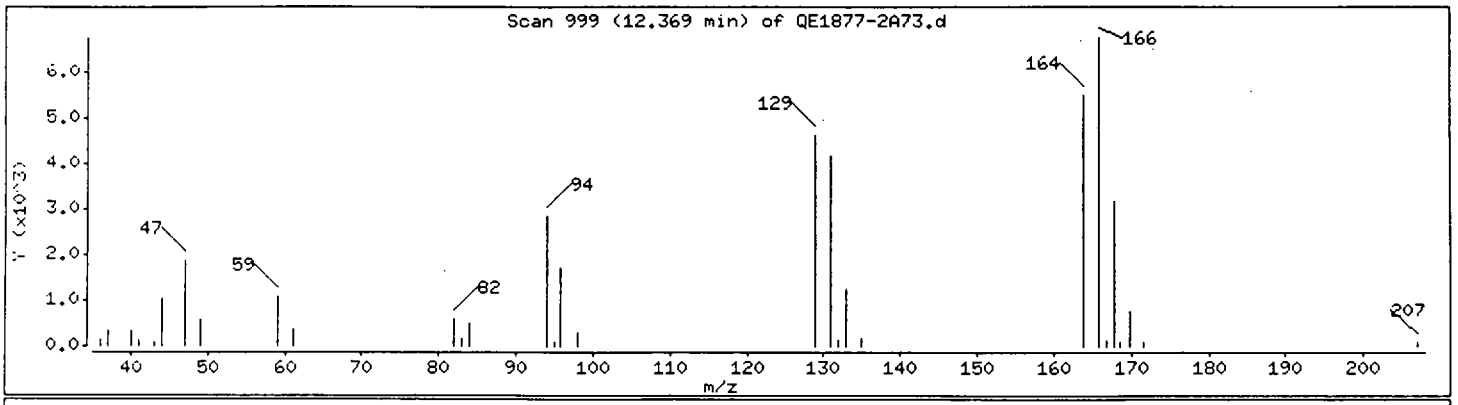
Operator: 2429

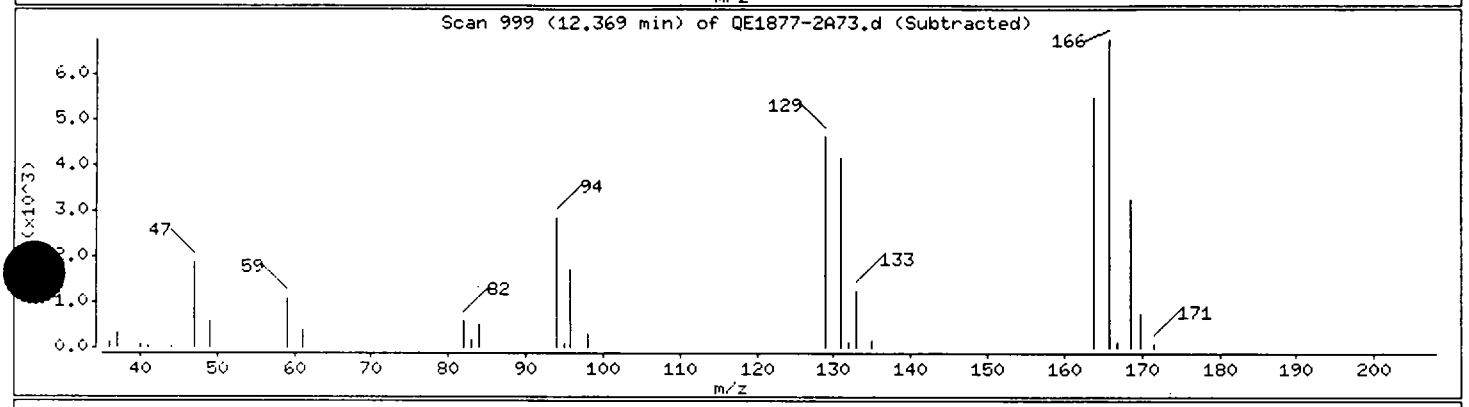
Column phase: ZB-624

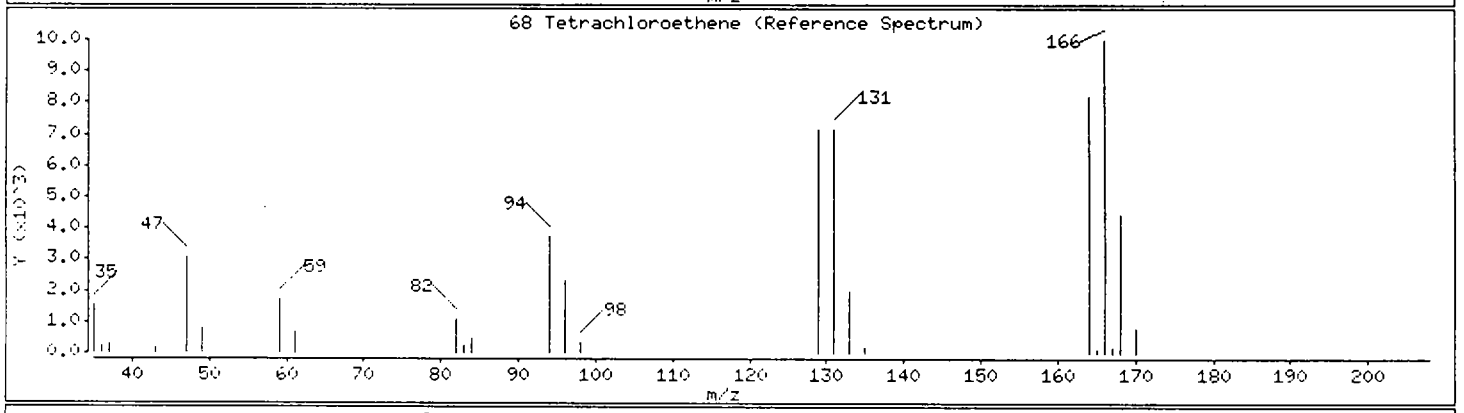
Column diameter: 0.32

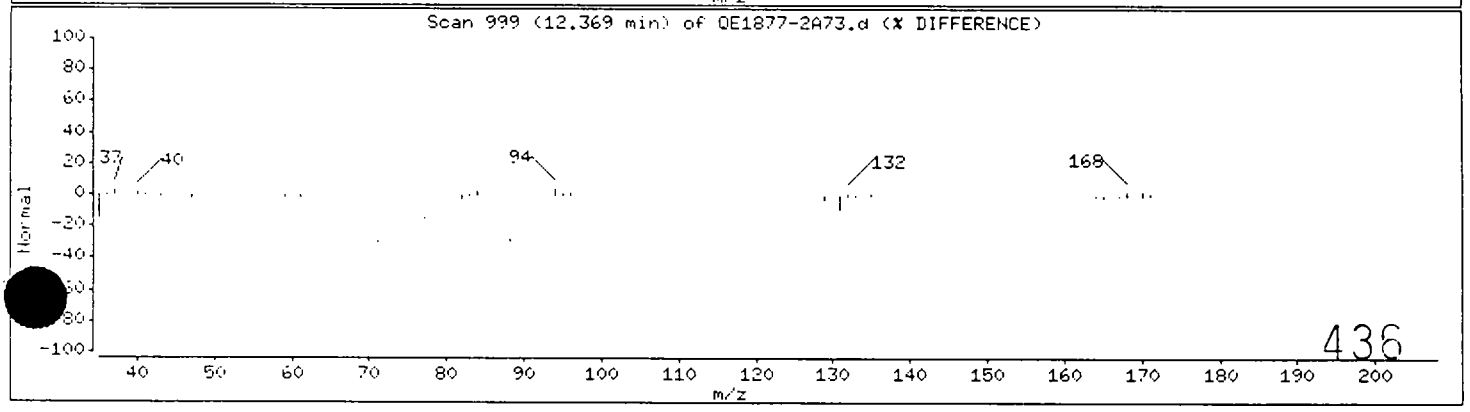
68 Tetrachloroethene

Concentration: 0.635 ug/L









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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-8A

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: QE1877-3

Sample wt/vol: 25 (g/ml) ML Lab File ID: QE1877-3A73

Level: (low/med) LOW Date Received: 03/06/02

% Moisture: not dec. _____ Date Analyzed: 03/07/02

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-35-4	1,1-Dichloroethene	3	
75-15-0	Carbon disulfide	0.1	J
67-64-1	Acetone	6	B
75-09-2	Methylene Chloride	0.1	J
156-60-5	trans-1,2-Dichloroethene	0.5	U
75-34-3	1,1-Dichloroethane	32	E
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-butanone	2	J
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	37	E
56-23-5	Carbon Tetrachloride	0.5	U
71-43-2	Benzene	0.7	
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.1	J
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	3	U
108-88-3	Toluene	34	E
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.1	J
591-78-6	2-hexanone	3	U
124-48-1	Dibromochloromethane	0.1	J
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	1300	E
108-38-3	m,p-Xylene	400	E
95-47-6	o-Xylene	620	E
100-42-5	Styrene	0.5	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-8A

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: QE1877-3

Sample wt/vol: 25 (g/ml) ML Lab File ID: QE1877-3A73

Level: (low/med) LOW Date Received: 03/06/02

% Moisture: not dec. _____ Date Analyzed: 03/07/02

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

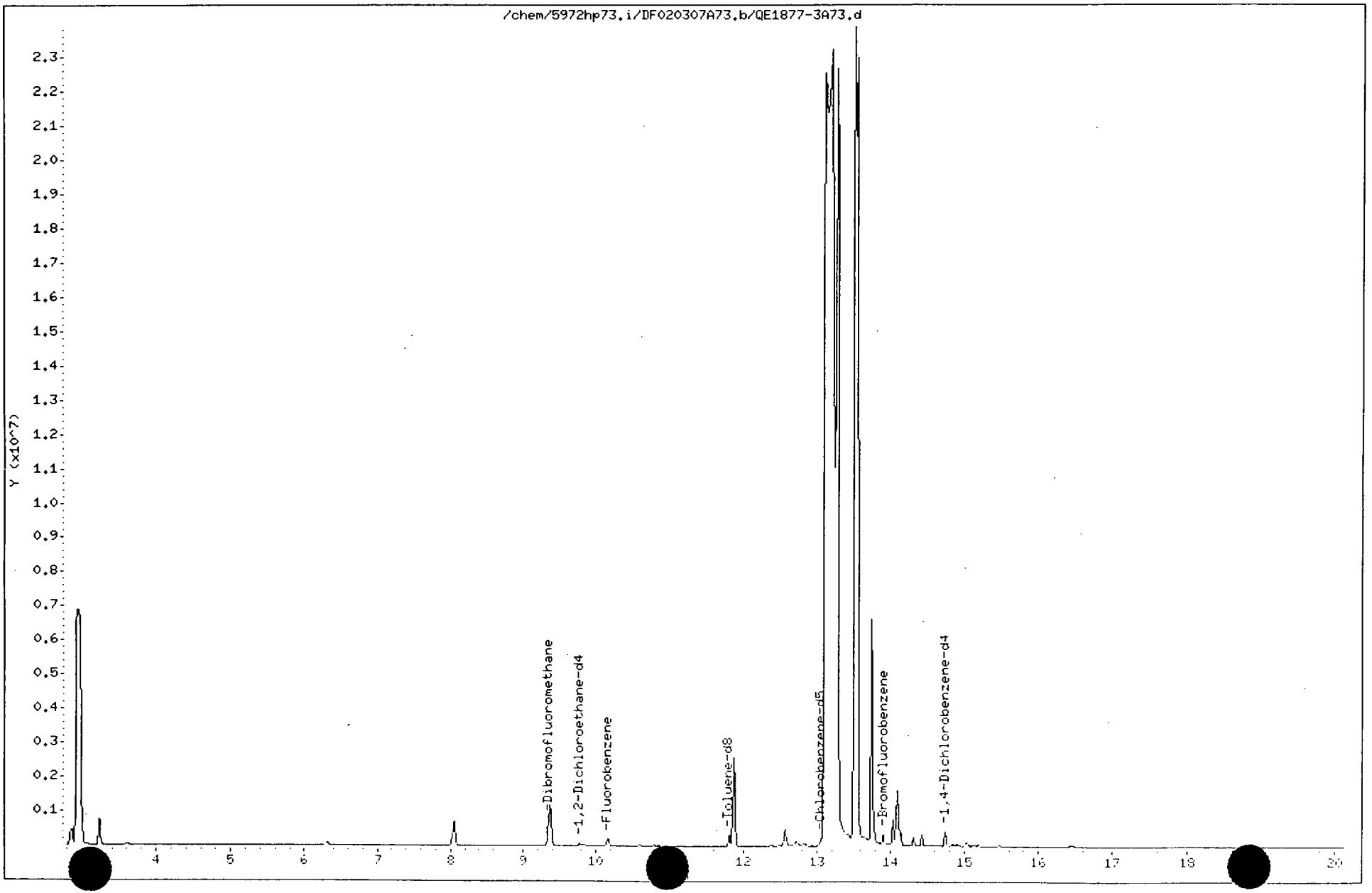
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-25-2	Bromoform	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
1330-20-7	Xylene (total)	1000	E

FORM I VOA

Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-3A73.d
Date : 07-MAR-2002 15:16
Client ID: MW-8A
Sample Info:
Purge Volume: 25.0
Column phase: ZB-624

Instrument: 5972hp73.i

Operator: 2429
Column diameter: 0.32



Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-3A73.d
Report Date: 08-Mar-2002 15:51

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF020307A73.b/QE1877-3A73.d
Lab Smp Id: QE1877-3 Client Smp ID: MW-8A
Inj Date : 07-MAR-2002 15:16
Operator : 2429 Inst ID: 5972hp73.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp73.i/DF020307A73.b/W8260-B-25MLv6.m
Meth Date : 08-Mar-2002 13:55 hubbard Quant Type: ISTD
Cal Date : 22-FEB-2002 22:50 Cal File: CY020222B73.d
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL3CT.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	10.169	10.169	(1.000)	229671	125.000	
* 2 Chlorobenzene-d5	117	13.062	13.053	(1.000)	167846	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.736	14.736	(1.000)	89124	125.000	
$ 4 Dibromofluoromethane	113	9.352	9.352	(0.920)	71481	134.196	5.37
$ 5 1,2-Dichloroethane-d4	65	9.785	9.775	(0.962)	54702	120.936	4.84
$ 6 Toluene-d8	98	11.822	11.813	(0.905)	222841	132.374	5.29
$ 7 Bromofluorobenzene	95	13.909	13.899	(0.944)	82361	127.841	5.11
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
16 1,1-Dichloroethene	96	6.310	6.301	(0.621)	39587	64.1229	2.56
21 Carbon disulfide	76	6.694	6.685	(0.658)	9600	3.72717	0.149(aM) 2
18 Acetone	43	6.438	6.439	(0.633)	14383	152.390	6.10
24 Methylene Chloride	84	7.098	7.088	(0.698)	2123	3.59504	0.144(a)
27 trans-1,2-Dichloroethene	96	Compound Not Detected.					

SAH 3/8/02

Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-3A73.d
Report Date: 08-Mar-2002 15:51

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
30 1,1-Dichloroethane	63	8.052	8.043	(0.792)	954125	787.634	31.51(A)
34 cis-1,2-Dichloroethene	96	Compound Not Detected.					
37 2-butanone	43	8.781	8.771	(0.864)	5498	46.5209	1.86(a)
42 Chloroform	83	Compound Not Detected.					
43 1,1,1-Trichloroethane	97	9.371	9.362	(0.922)	1021733	915.485	36.62(A)
48 Carbon Tetrachloride	117	Compound Not Detected.					
51 Benzene	78	9.844	9.834	(0.968)	41373	16.4217	0.657
49 1,2-Dichloroethane	62	Compound Not Detected.					
52 Trichloroethene	130	10.602	10.592	(1.043)	2411	3.38490	0.135(aH)
55 1,2-Dichloropropane	63	Compound Not Detected.					
59 Bromodichloromethane	83	Compound Not Detected.					
61 cis-1,3-Dichloropropene	75	Compound Not Detected.					
62 4-Methyl-2-pentanone	43	Compound Not Detected.					
63 Toluene	92	11.881	11.872	(0.910)	1161382	839.750	33.59(A)
64 trans-1,3-Dichloropropene	75	Compound Not Detected.					
65 1,1,2-Trichloroethane	97	Compound Not Detected.					
68 Tetrachloroethene	164	12.363	12.364	(0.946)	1755	3.17104	0.127(a)
69 2-hexanone	43	Compound Not Detected.					
70 Dibromochloromethane	129	12.363	12.610	(0.946)	1434	3.25096	0.130(a)
72 Chlorobenzene	112	Compound Not Detected.					
75 Ethylbenzene	106	13.200	13.112	(1.011)	26541225	33696.1	1348(A)
76 m,p-Xylene	106	13.299	13.191	(1.018)	9777637	9981.39	399.3(AMH) 2
77 o-Xylene	106	13.564	13.506	(1.038)	14187583	15484.0	619.4(A)
78 Styrene	104	Compound Not Detected.					
79 Bromoform	173	Compound Not Detected.					
82 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
M 107 Xylene (total)	106				23965220	26155.0	1046(A)

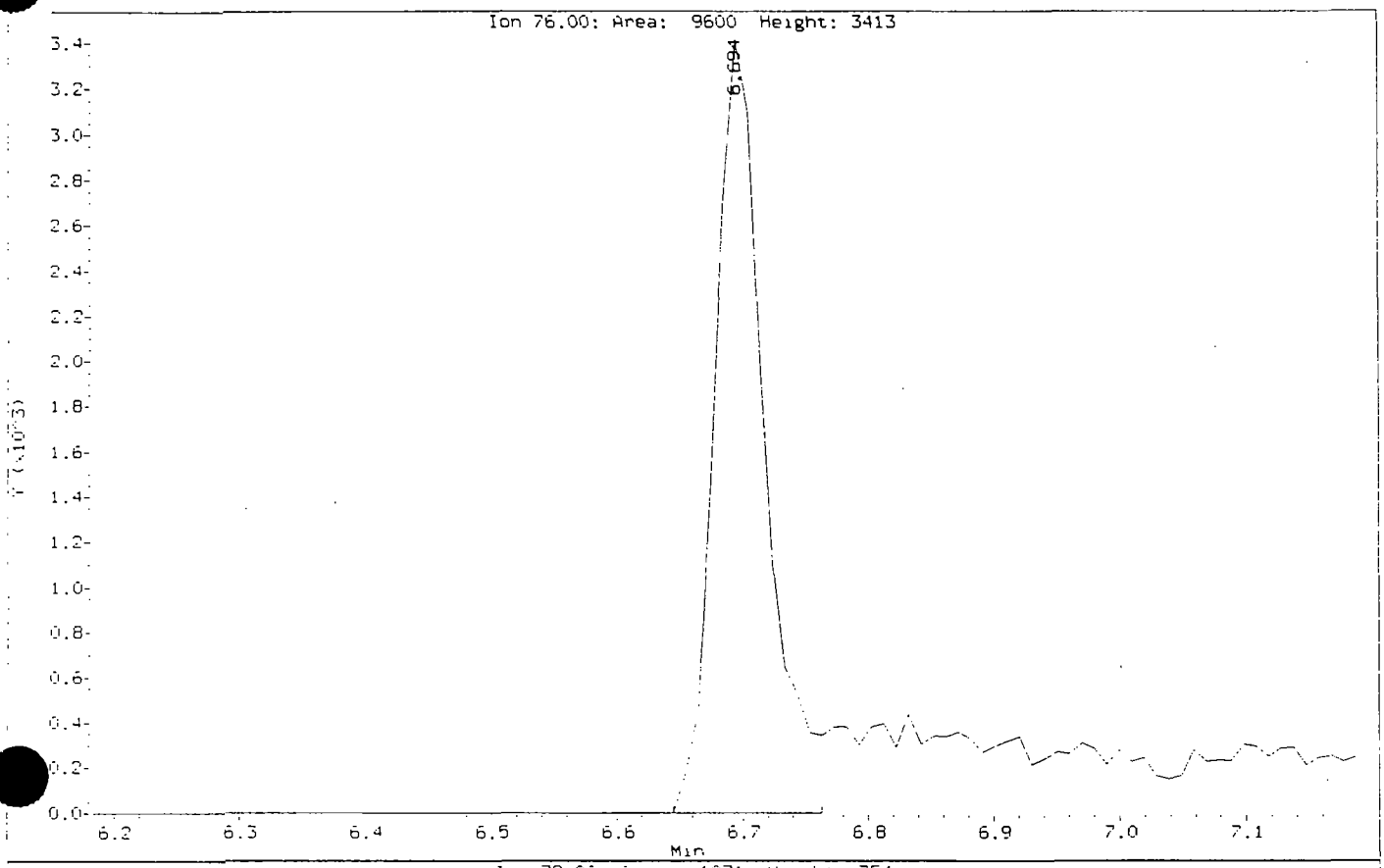
QC Flag Legend

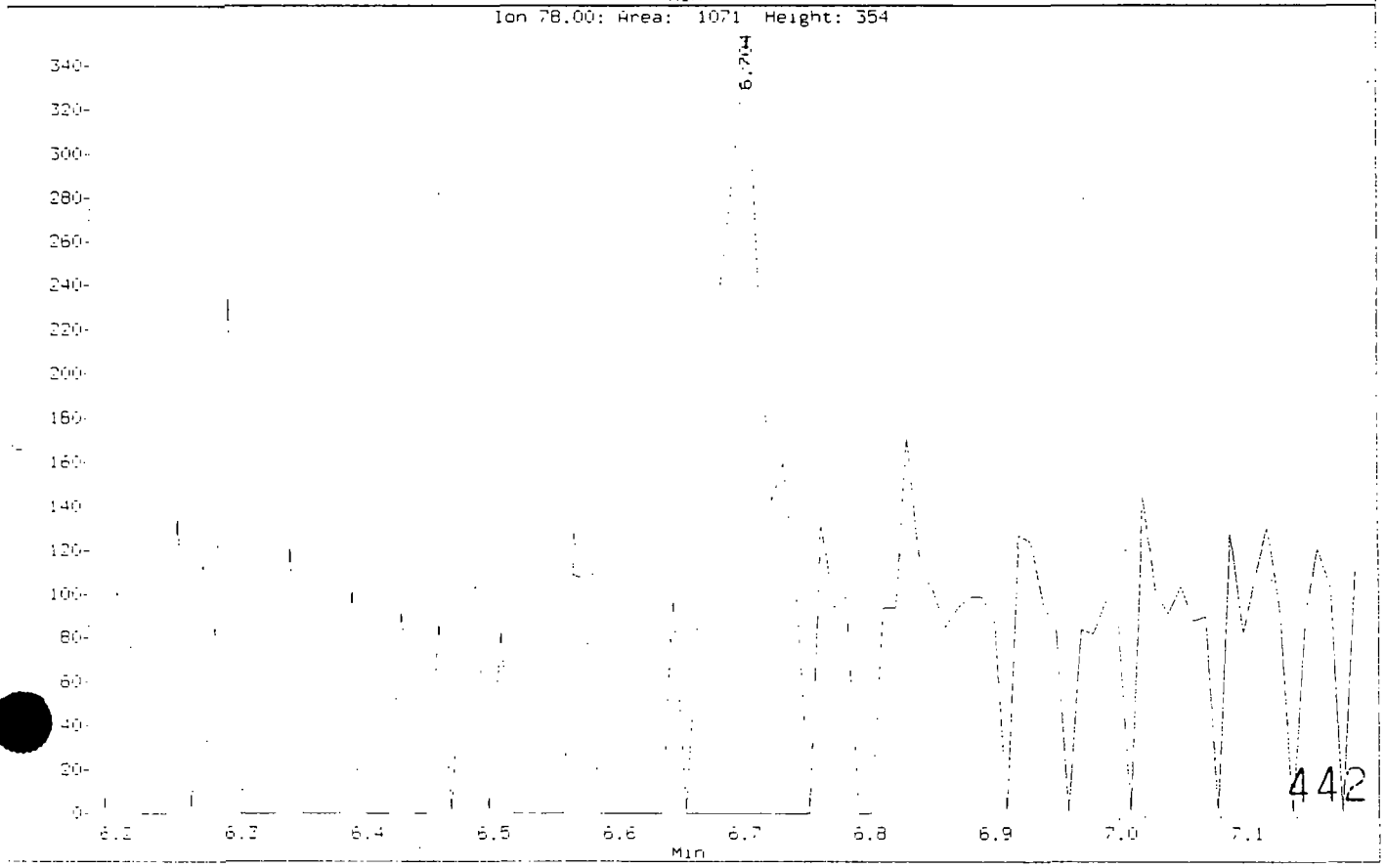
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

SCH 3/8/02

Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-3A73.d
Injection Date: 07-MAR-2002 15:16
Instrument: 5972hp73.i
Client Sample ID: MW-8A

pound: Carbon disulfide
Number: 75-15-0

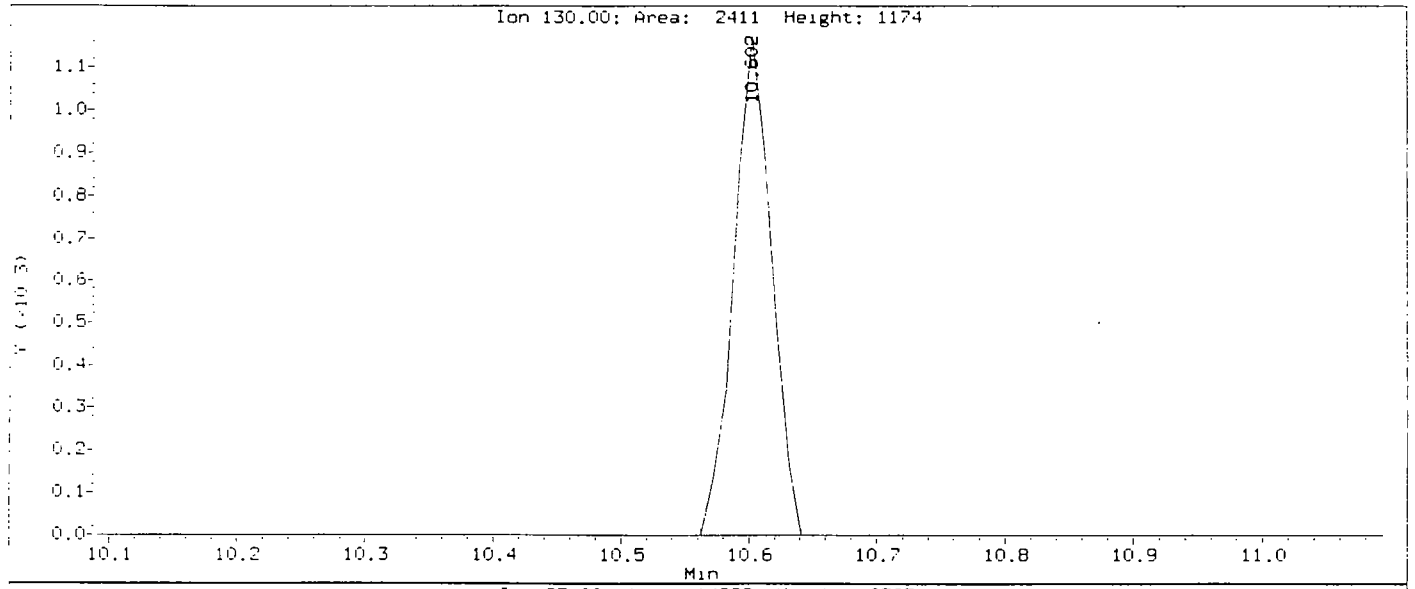


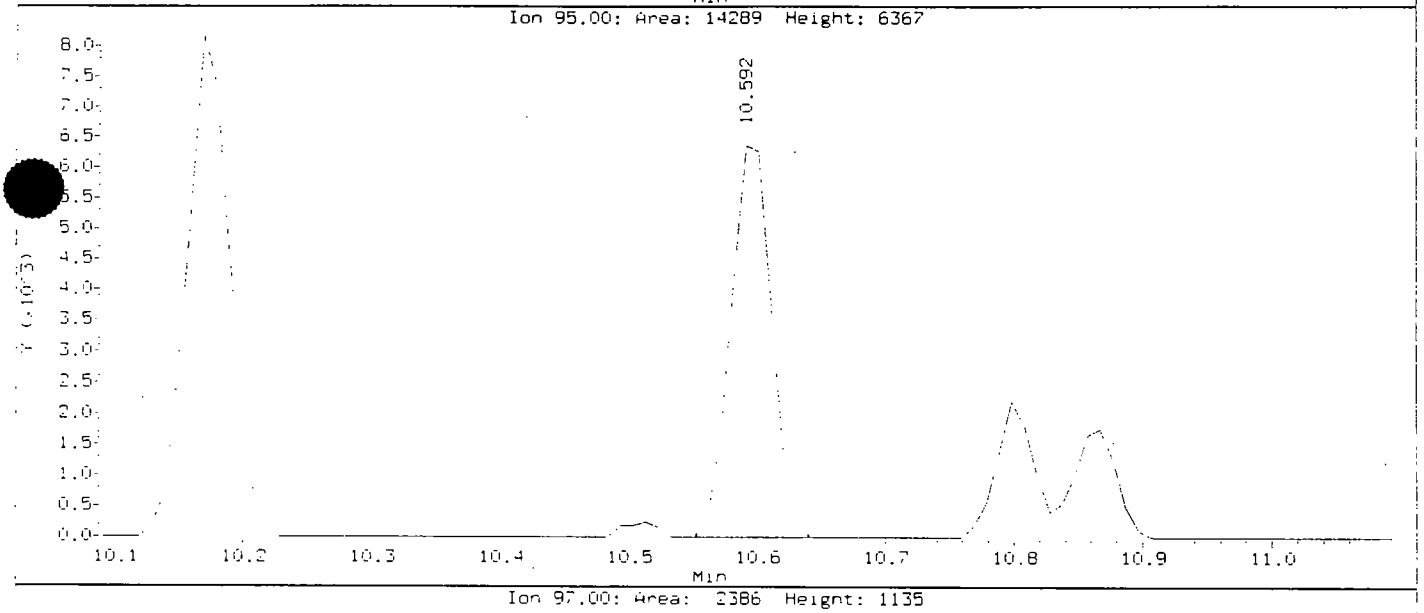


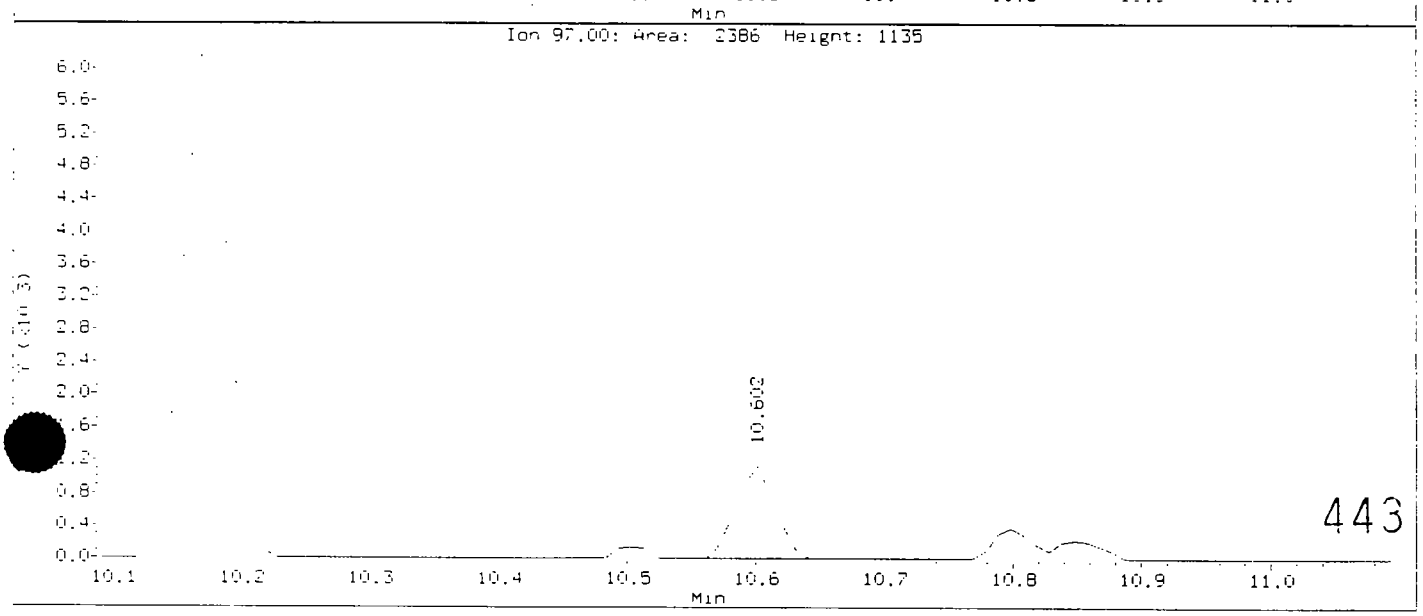
442

Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-3A73.d
Injection Date: 07-MAR-2002 15:16
Instrument: 5972hp73.i
Client Sample ID: MW-8A

Compound: Trichloroethene
CAS Number: 79-01-6

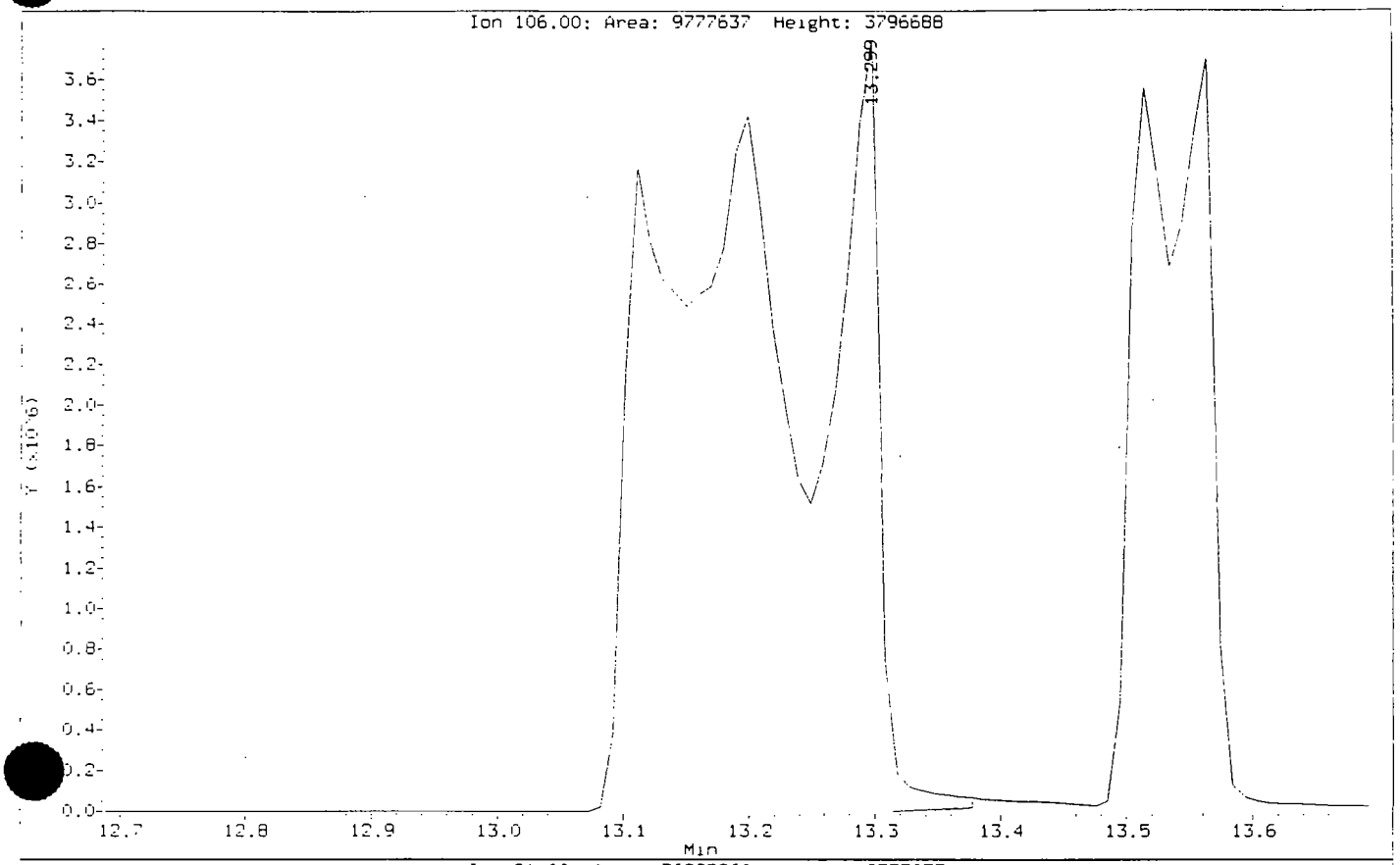


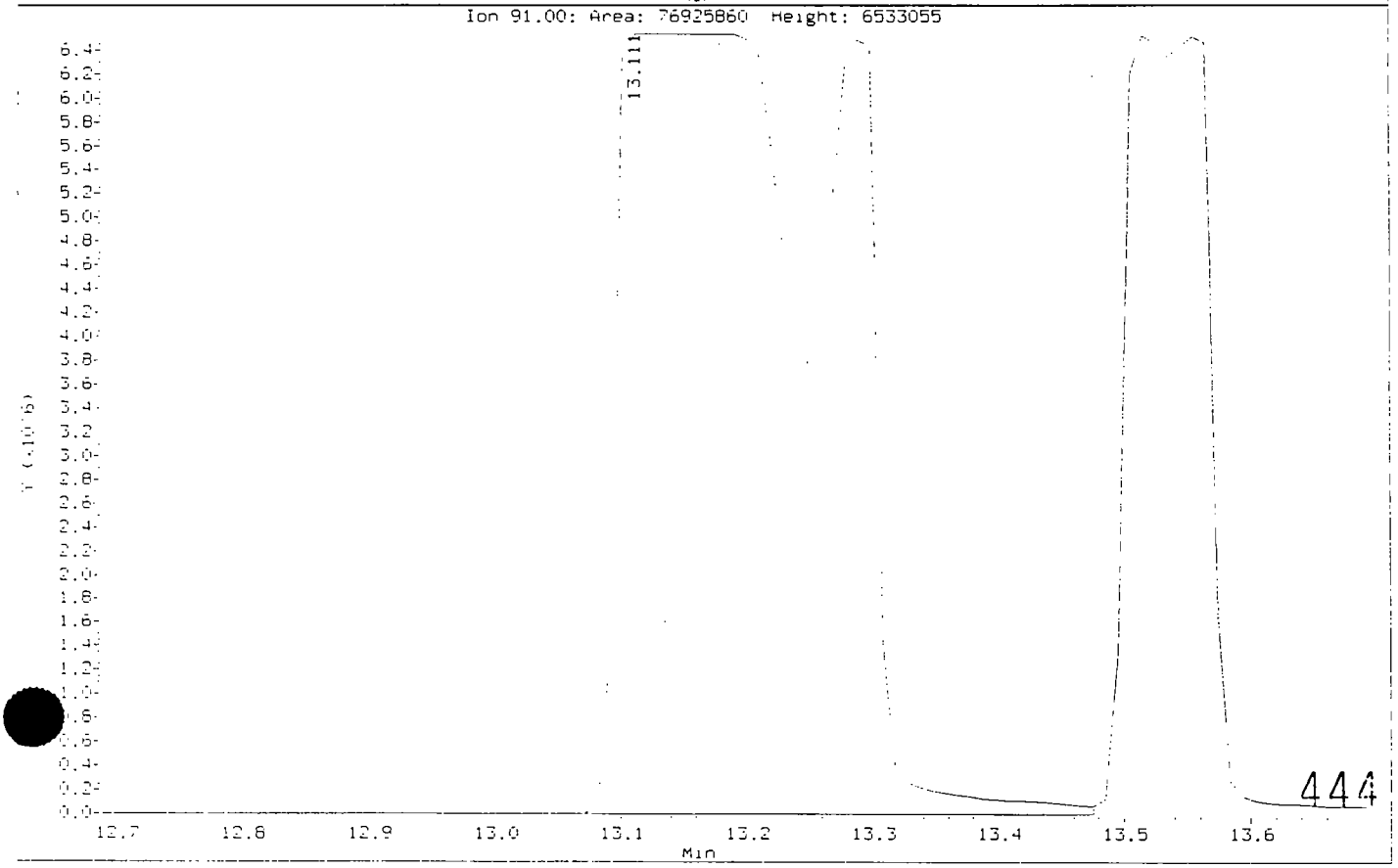




Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-3A73.d
Injection Date: 07-MAR-2002 15:16
Instrument: 5972hp73.i
Client Sample ID: MW-8A

pound: m,p-Xylene
Number: 108-38-3





444

Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-3A73.d

Date : 07-MAR-2002 15:16

Client ID: MW-8A

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

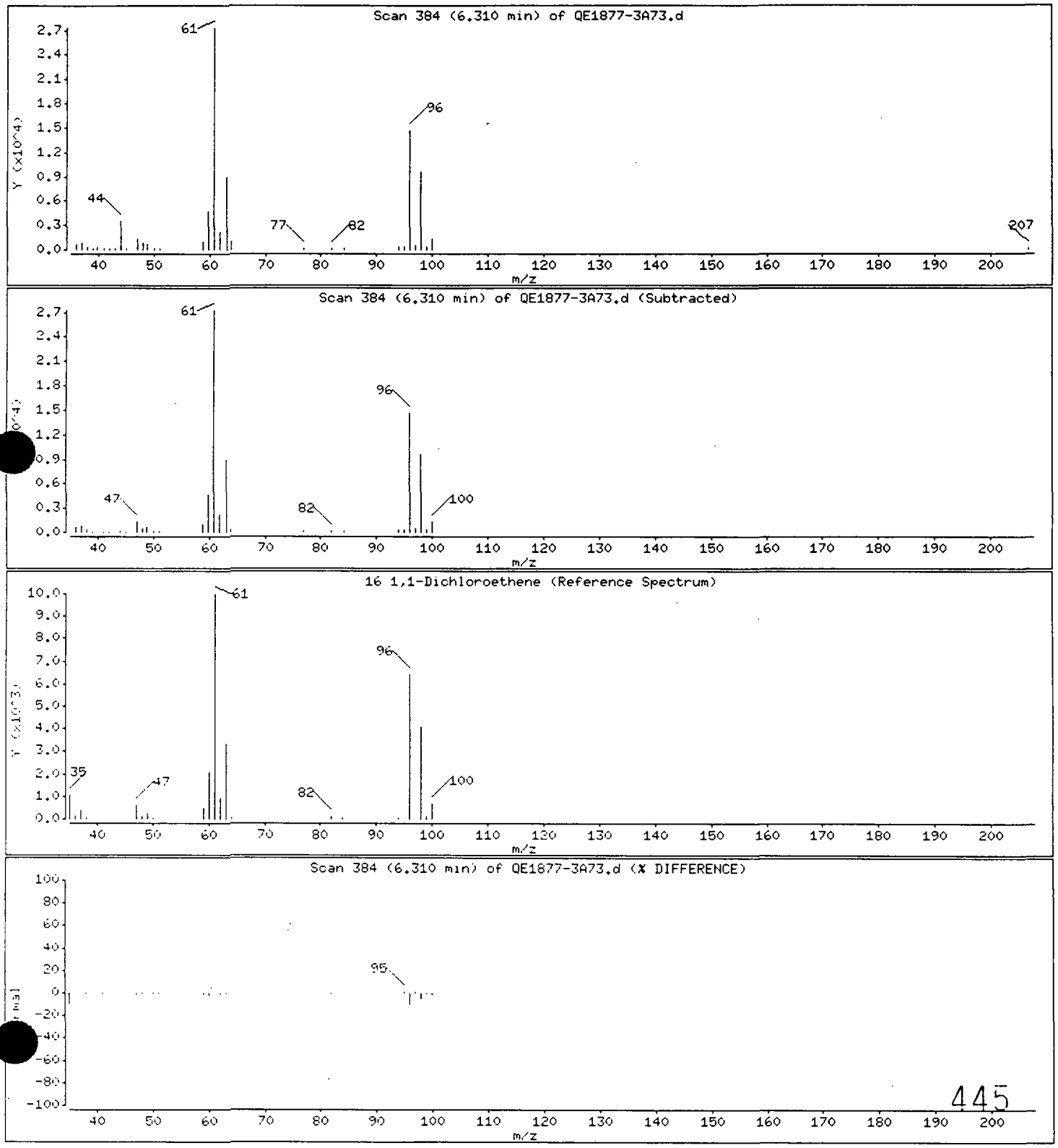
Operator: 2429

Column phase: ZB-624

Column diameter: 0.32

16 1,1-Dichloroethene

Concentration: 2.56 ug/L



Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-3A73.d

Date : 07-MAR-2002 15:16

Client ID: MW-8A

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

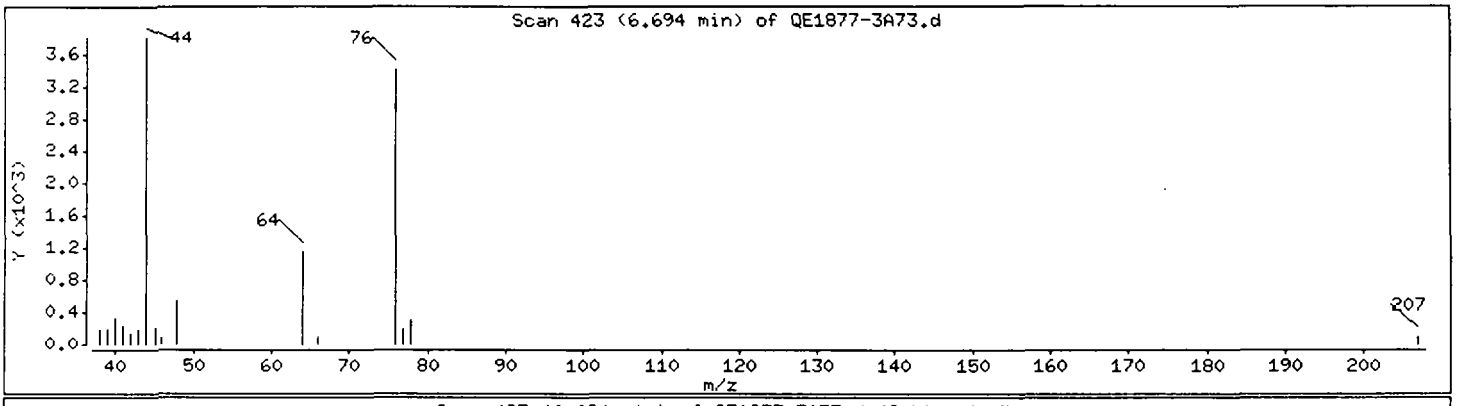
Operator: 2429

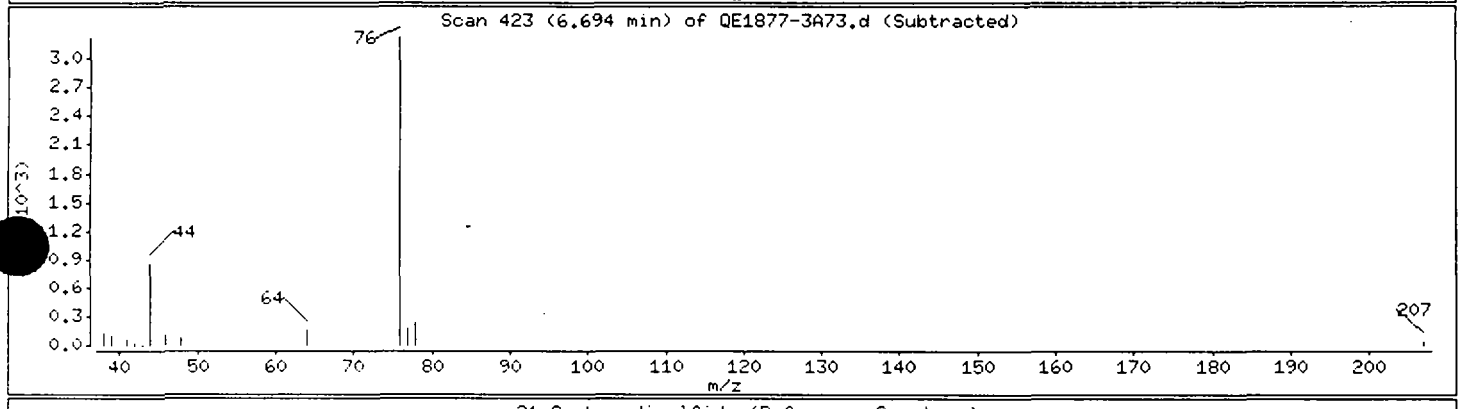
Column phase: ZB-624

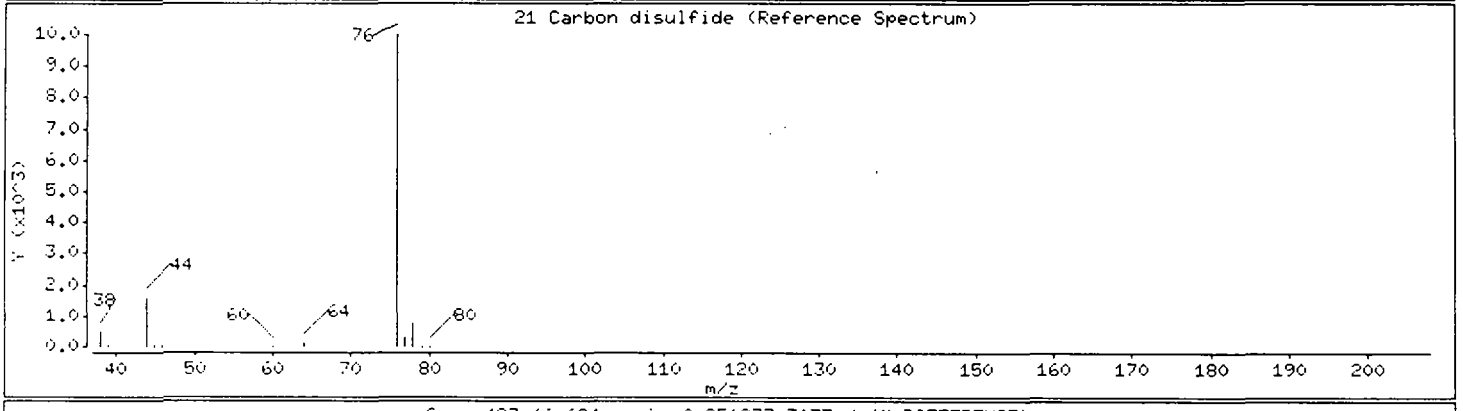
Column diameter: 0.32

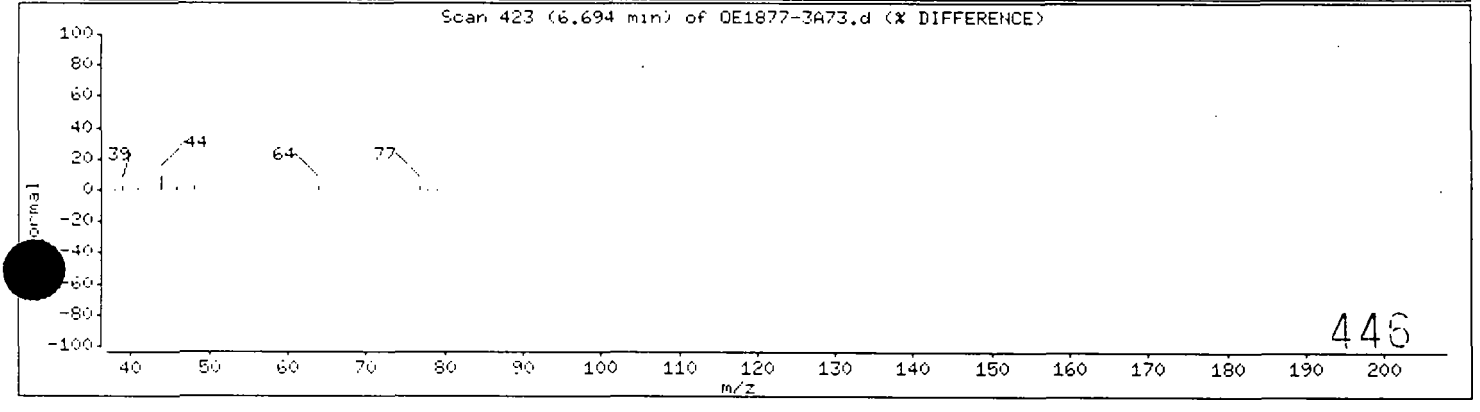
21 Carbon disulfide

Concentration: 0.149 ug/L









Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-3A73.d

Date : 07-MAR-2002 15:16

Client ID: MW-8A

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

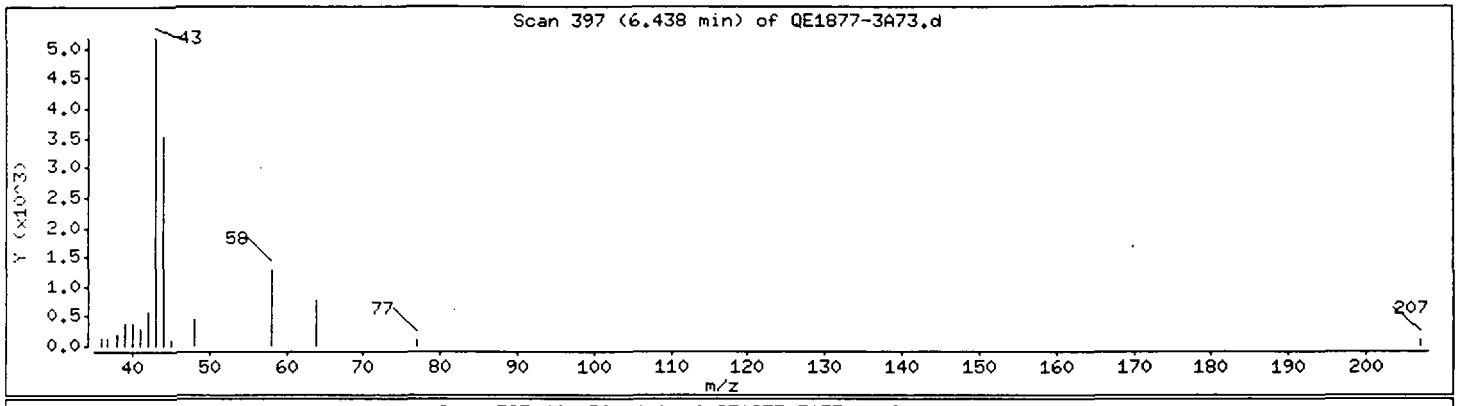
Operator: 2429

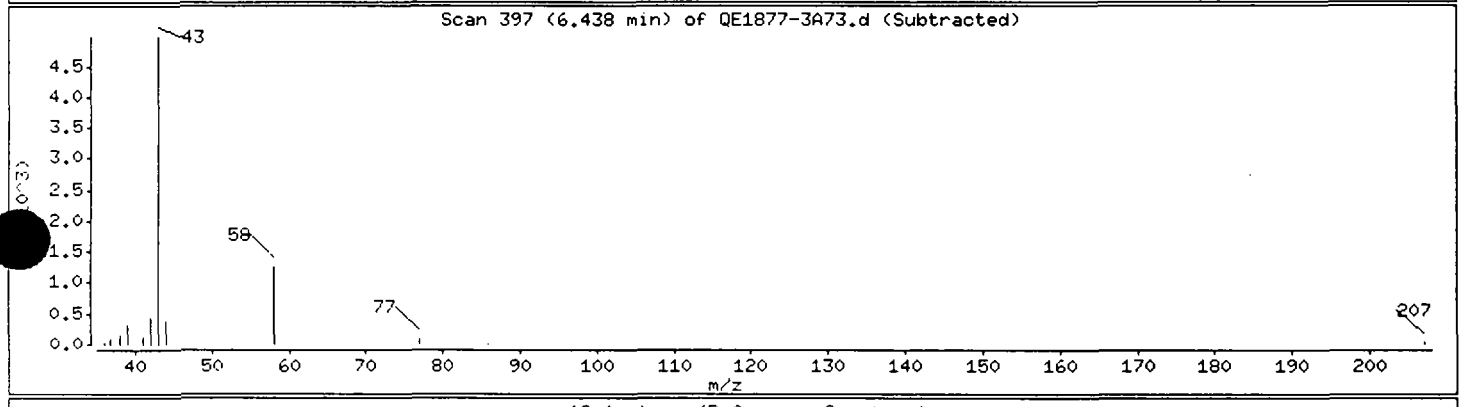
Column phase: ZB-624

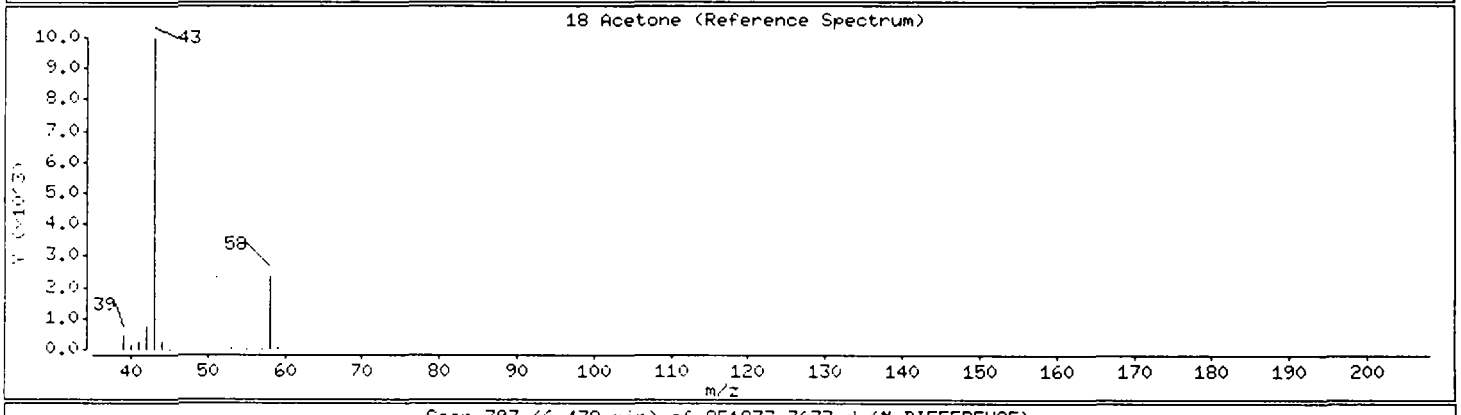
Column diameter: 0.32

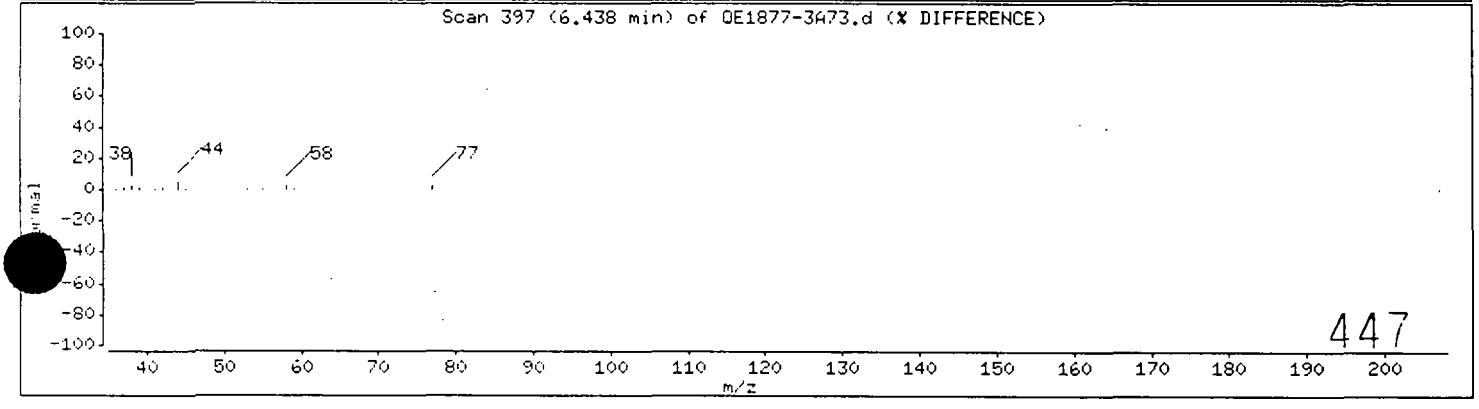
18 Acetone

Concentration: 6.10 ug/L









447

Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-3A73.d

Date : 07-MAR-2002 15:16

Client ID: MW-8A

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

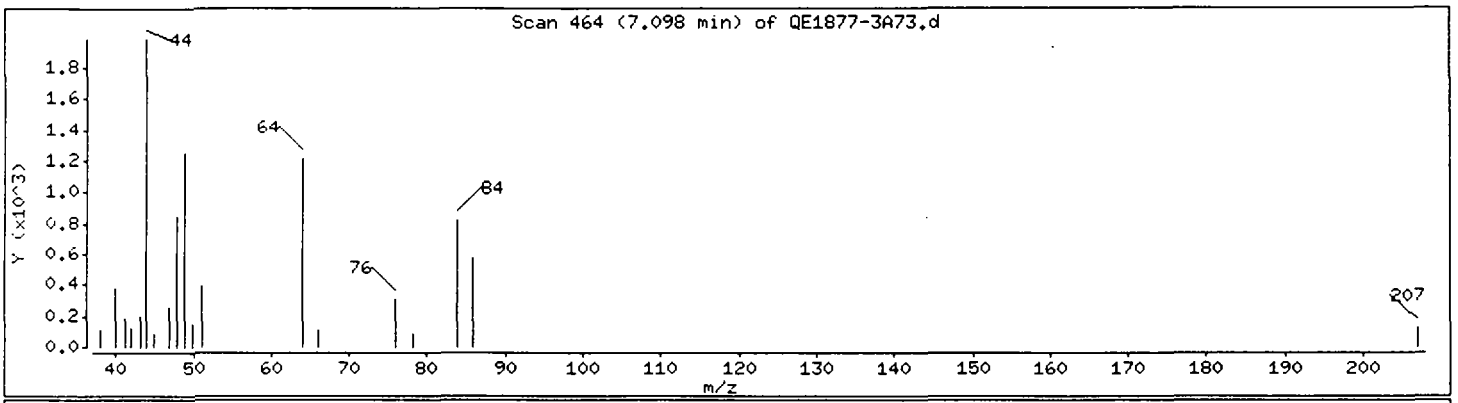
Operator: 2429

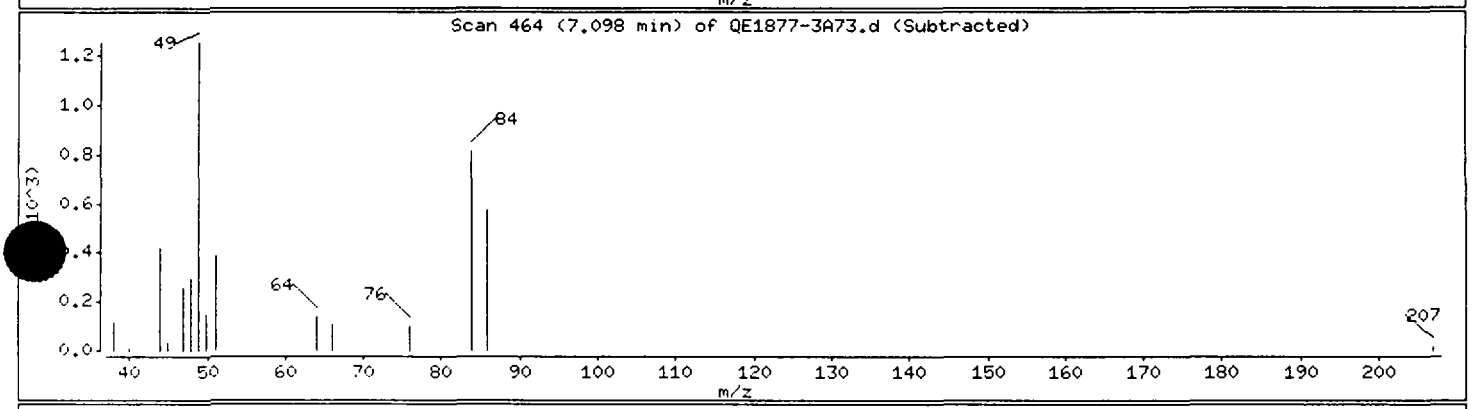
Column phase: ZB-624

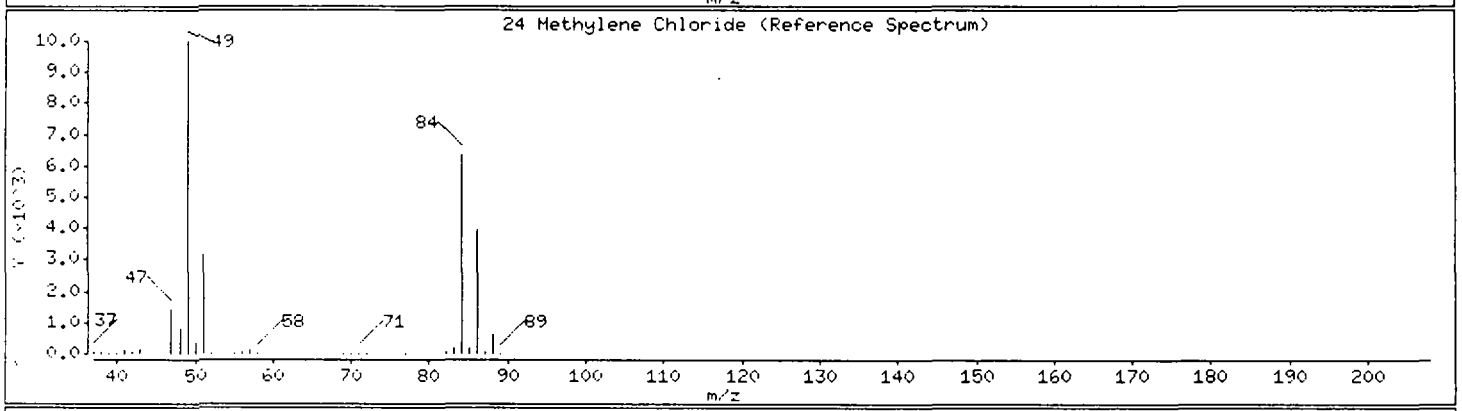
Column diameter: 0.32

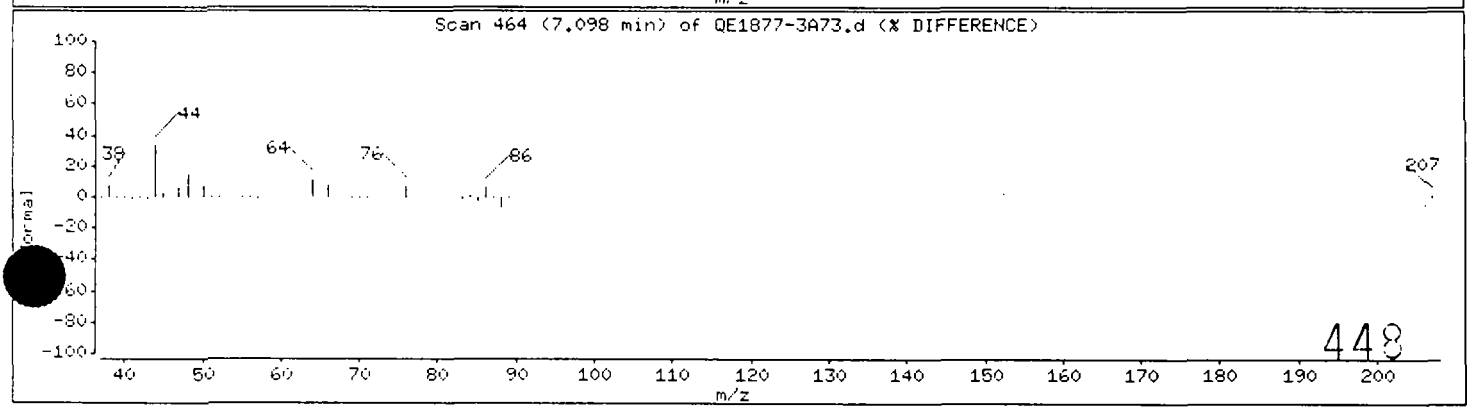
24 Methylene Chloride

Concentration: 0.144 ug/L









448

Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-3A73.d

Date : 07-MAR-2002 15:16

Client ID: MW-8A

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

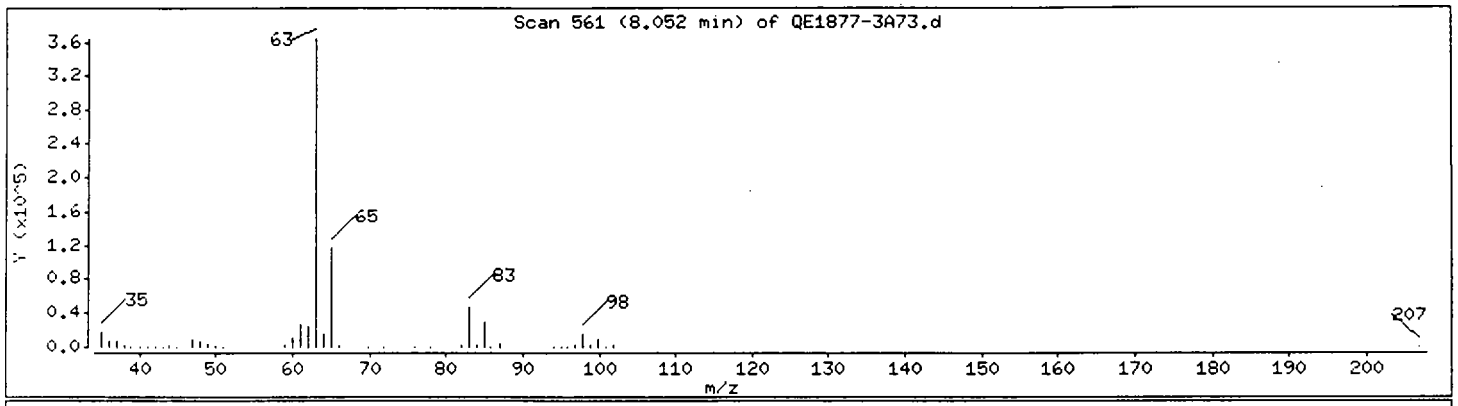
Operator: 2429

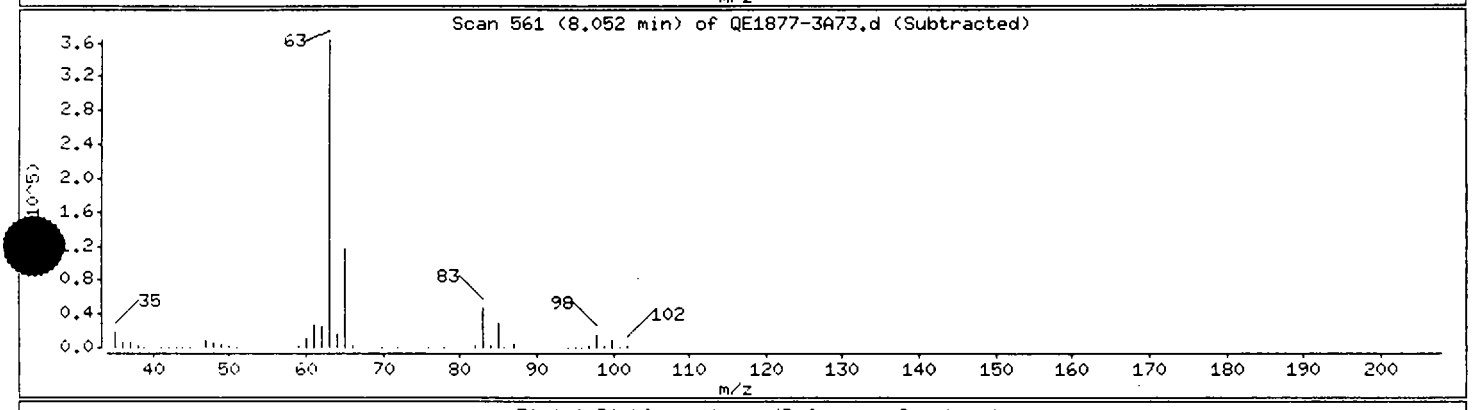
Column phase: ZB-624

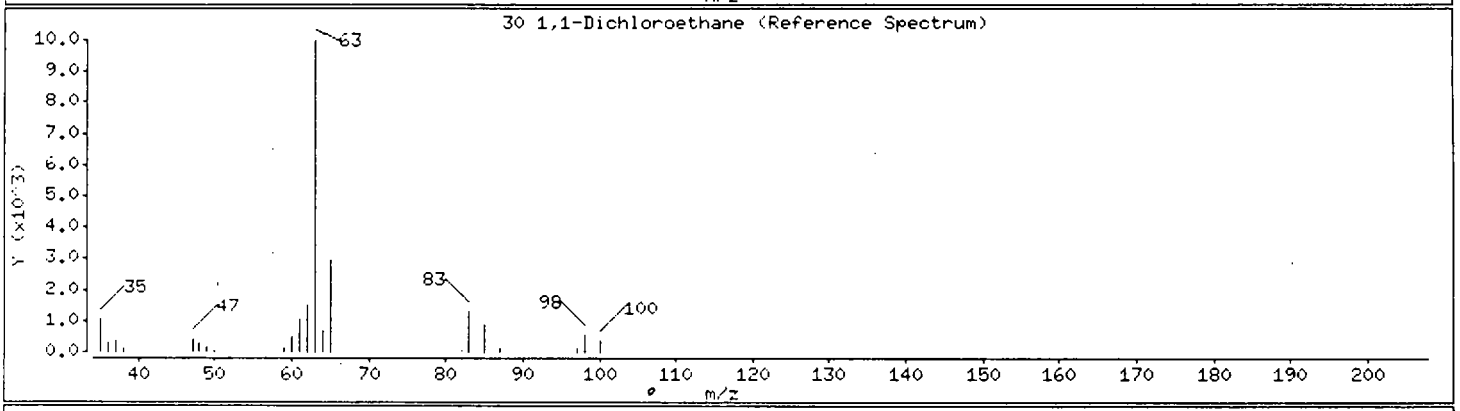
Column diameter: 0.32

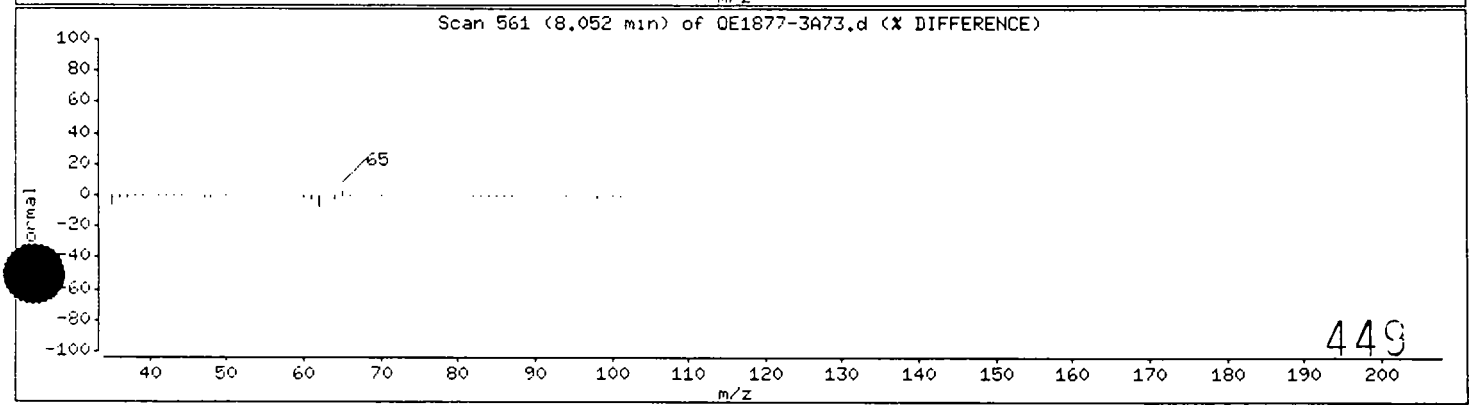
30 1,1-Dichloroethane

Concentration: 31.51 ug/L









449

Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-3A73.d

Date : 07-MAR-2002 15:16

Client ID: MW-8A

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

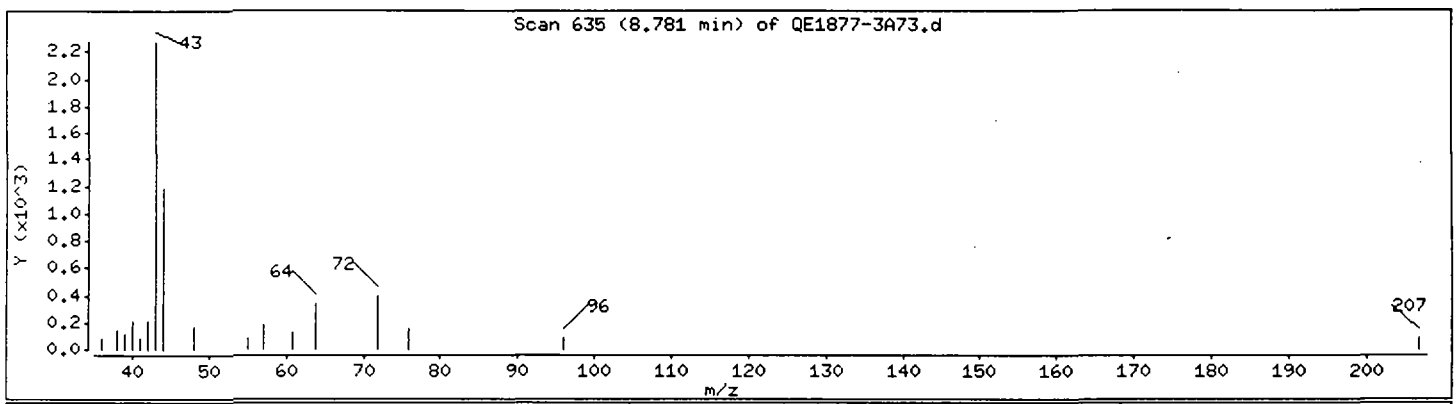
Operator: 2429

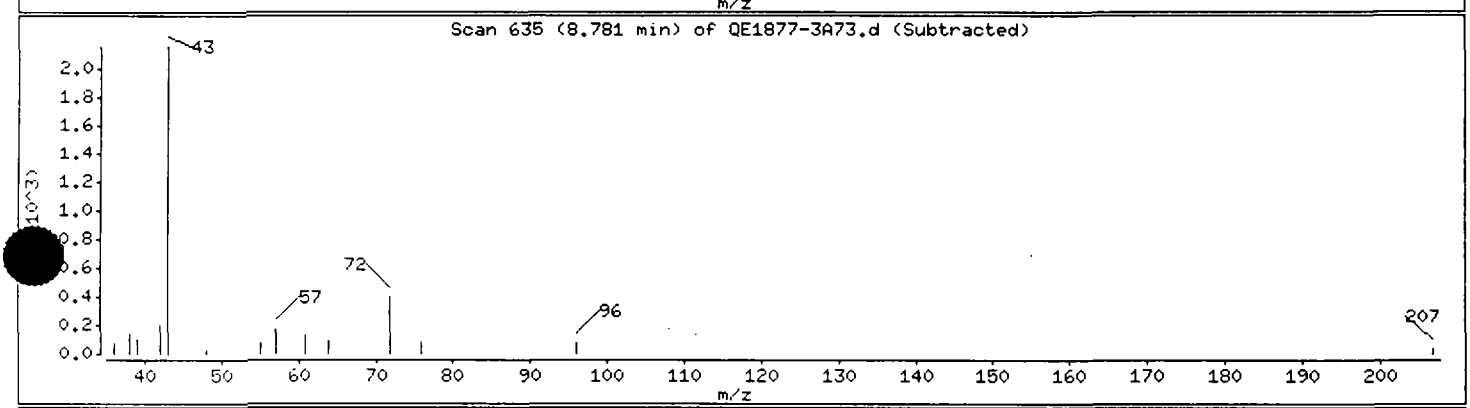
Column phase: ZB-624

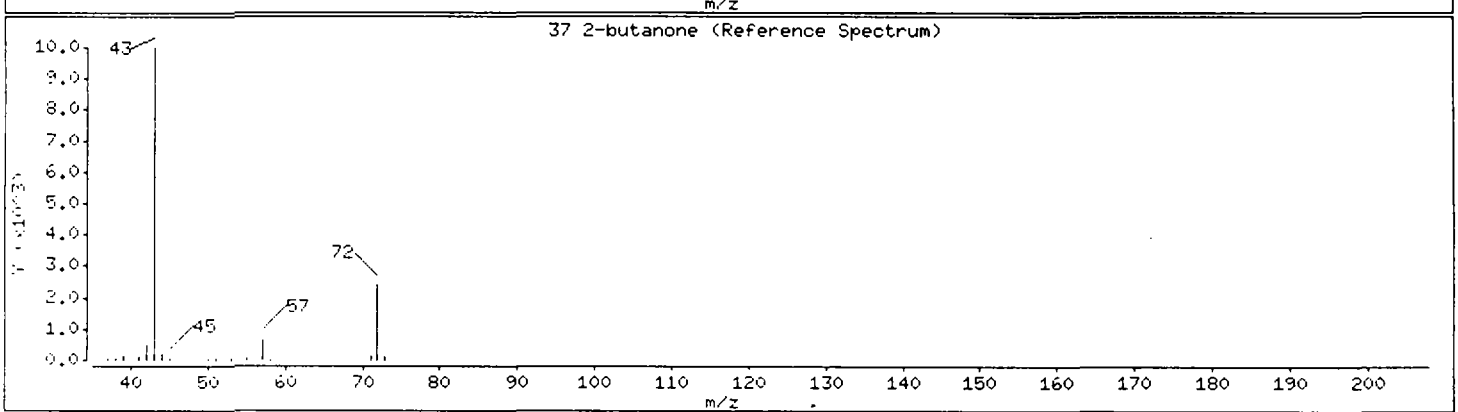
Column diameter: 0.32

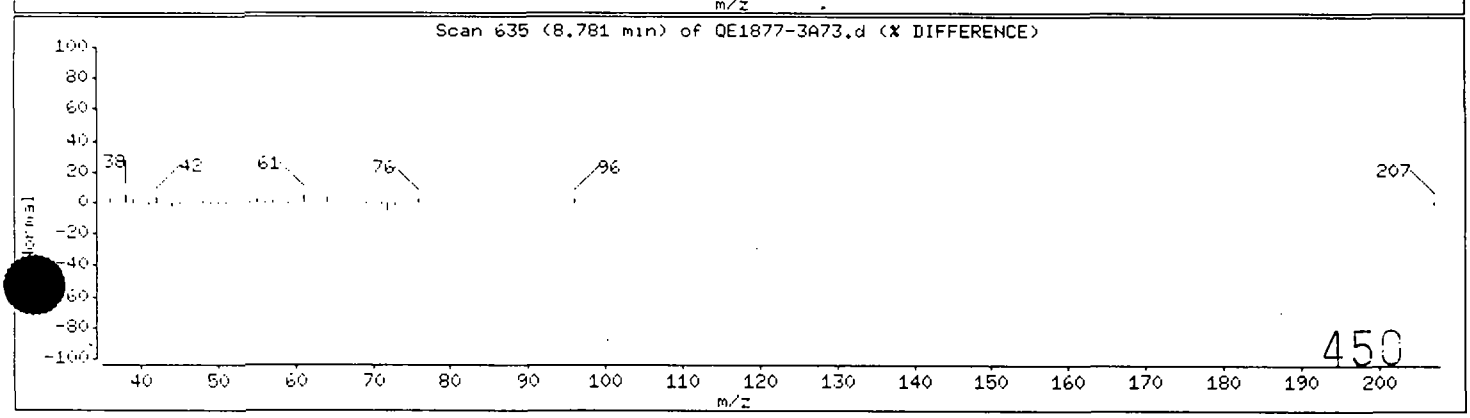
37 2-butanone

Concentration: 1.86 ug/L









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Date : 07-MAR-2002 15:16

Client ID: MW-8A

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

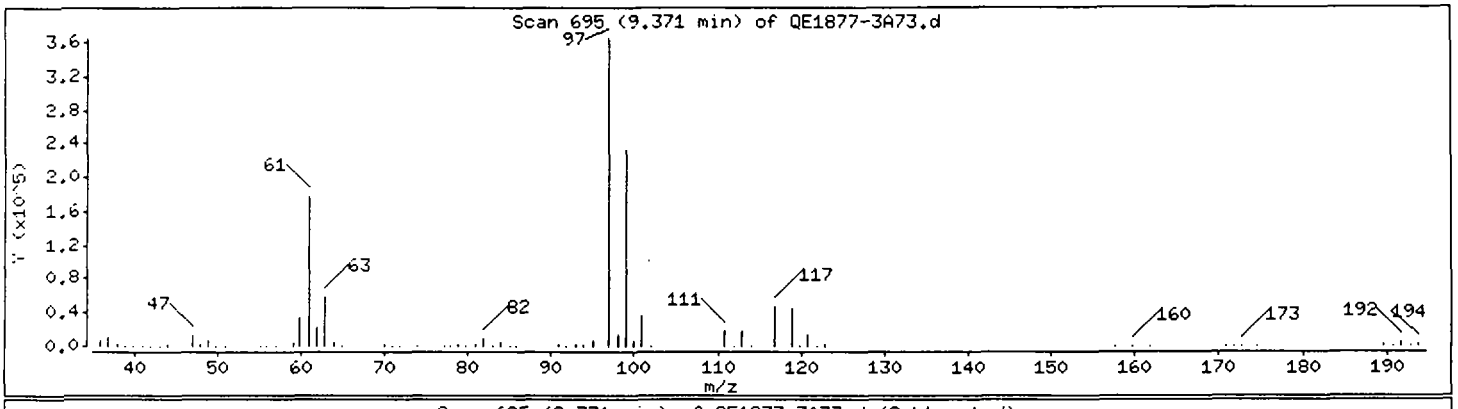
Operator: 2429

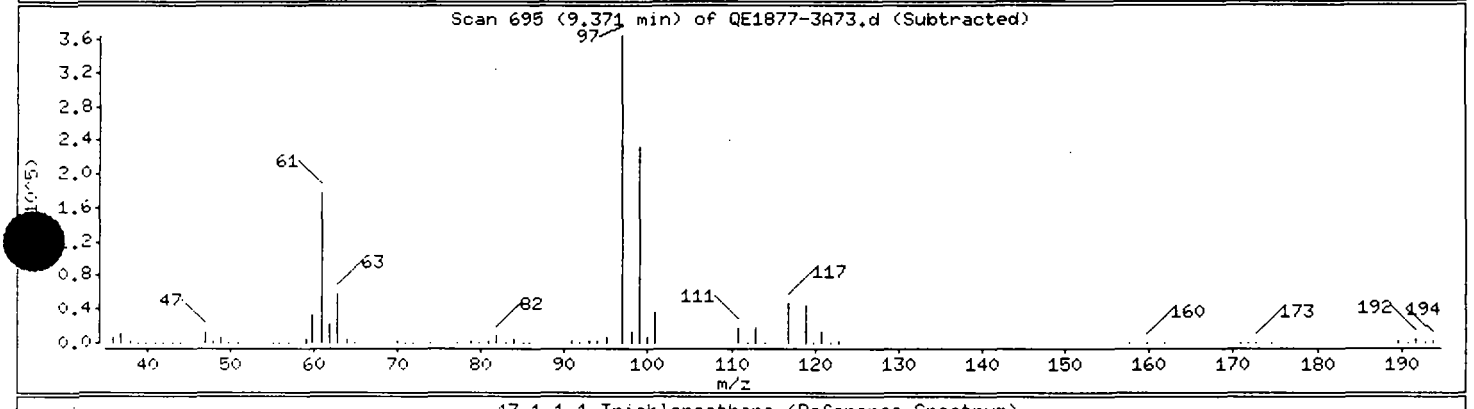
Column phase: ZB-624

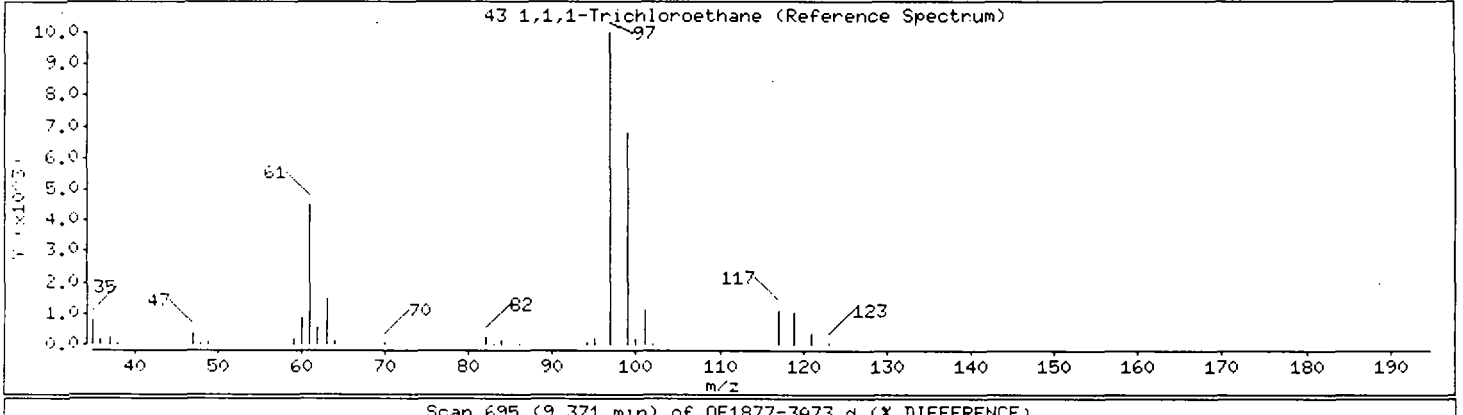
Column diameter: 0.32

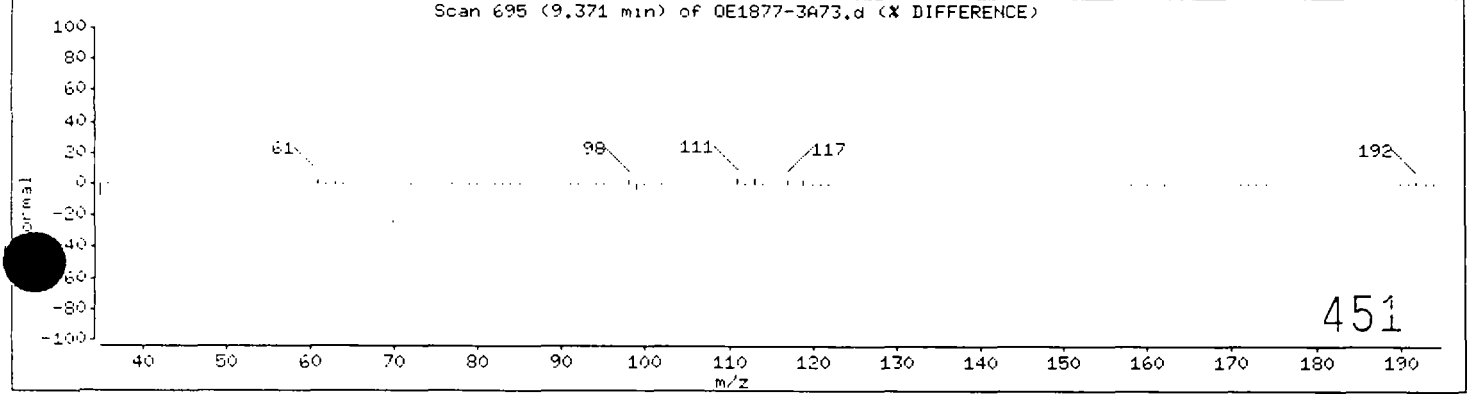
43 1,1,1-Trichloroethane

Concentration: 36.62 ug/L









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Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-3A73.d

Date : 07-MAR-2002 15:16

Client ID: MW-8A

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

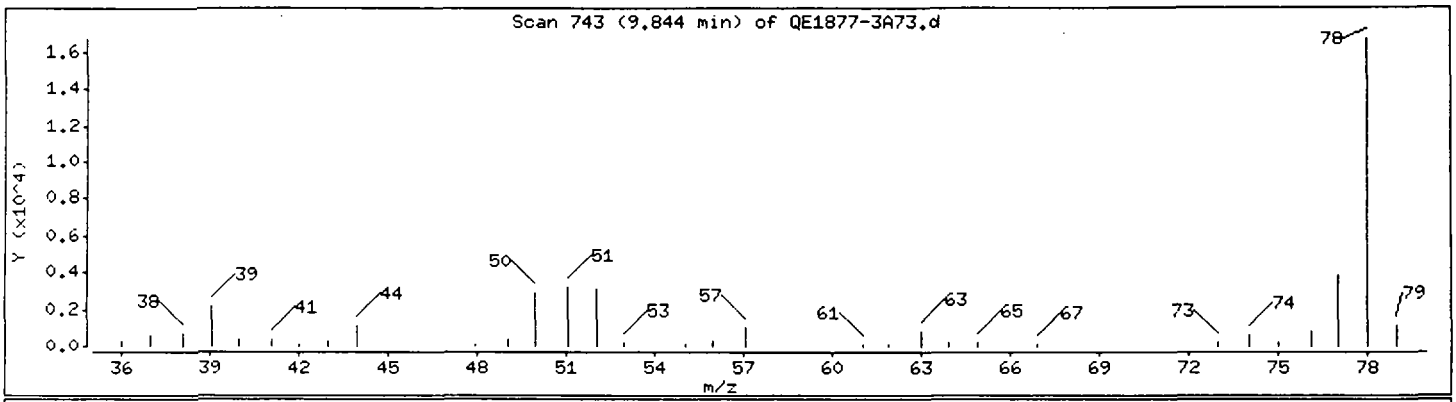
Operator: 2429

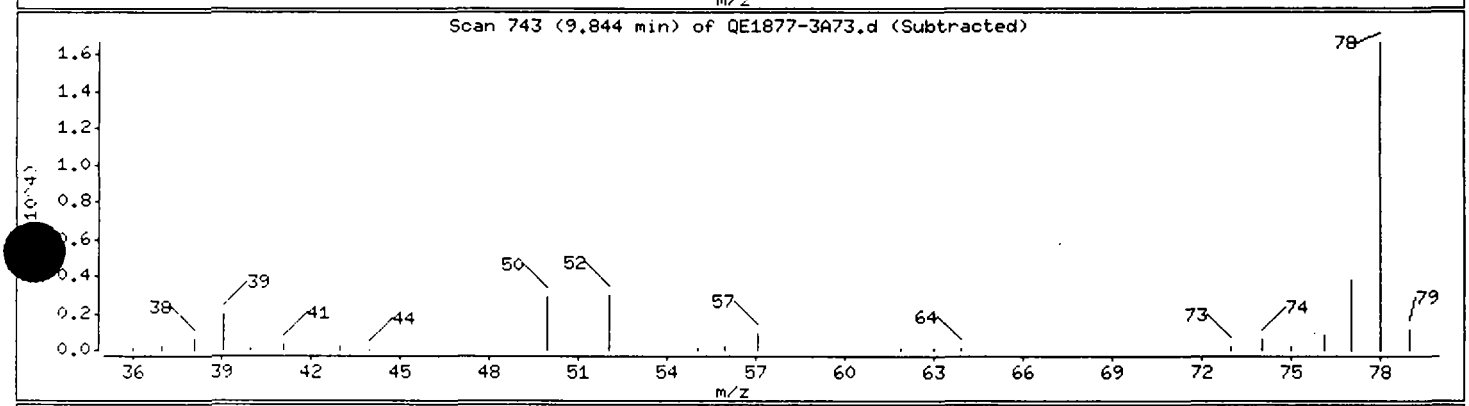
Column phase: ZB-624

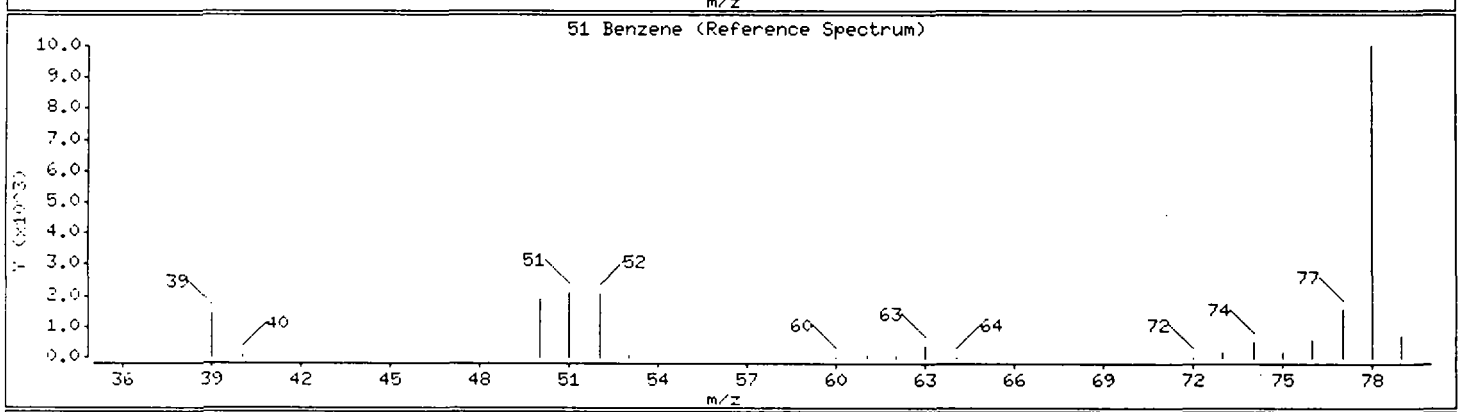
Column diameter: 0.32

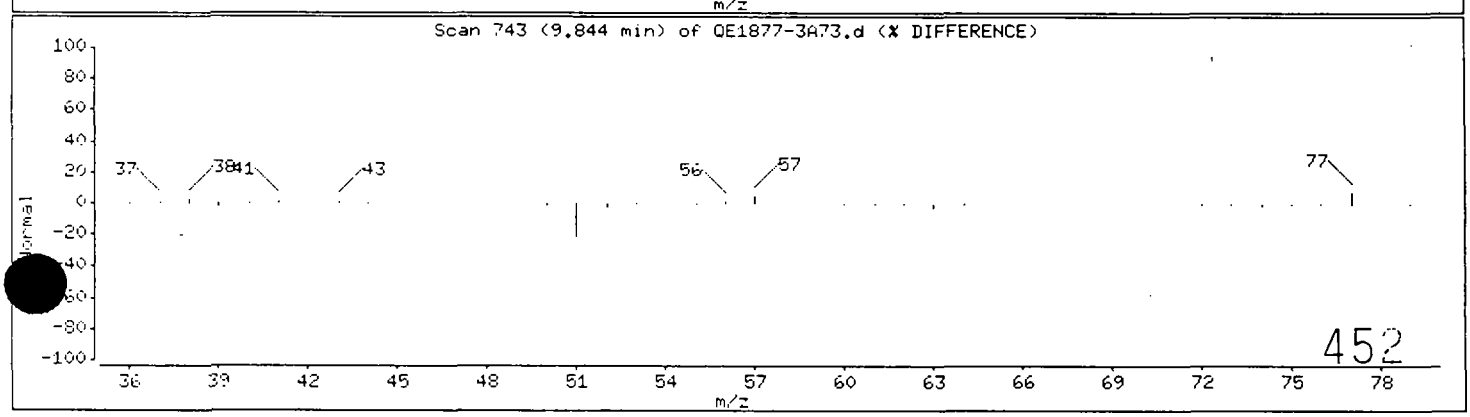
51 Benzene

Concentration: 0.657 ug/L









Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-3A73.d

Date : 07-MAR-2002 15:16

Client ID: MW-8A

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

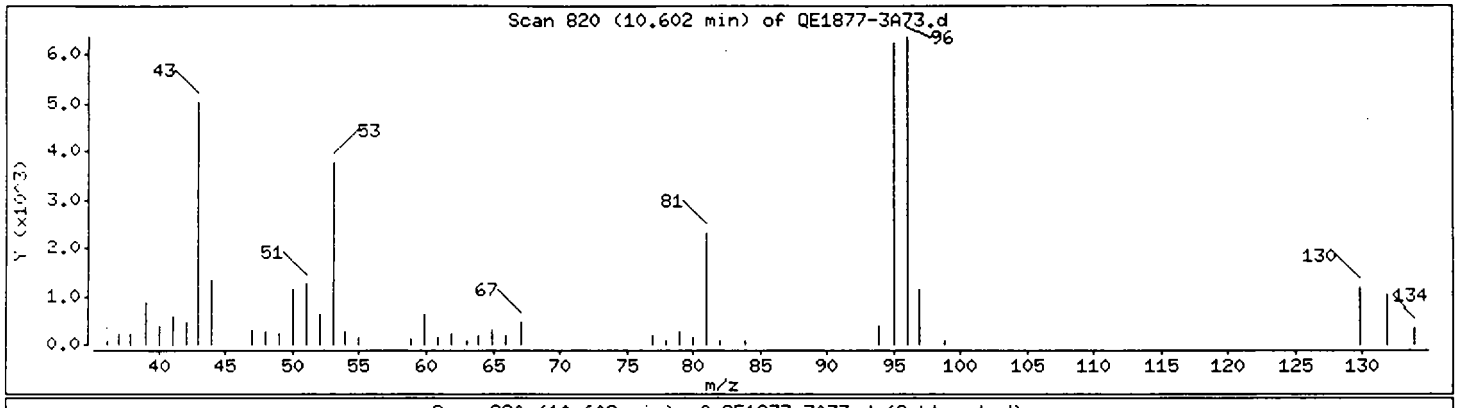
Operator: 2429

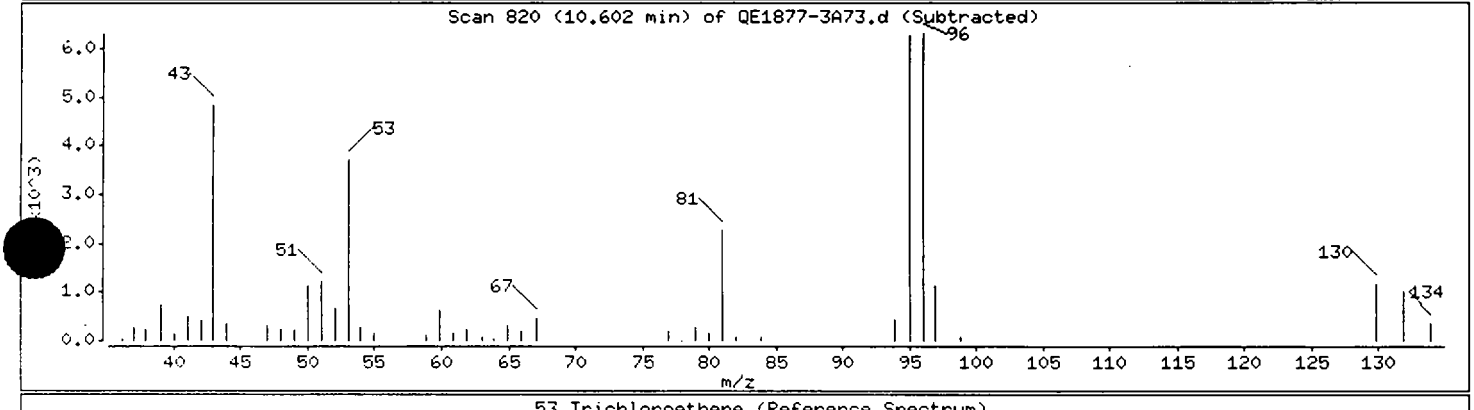
Column phase: ZB-624

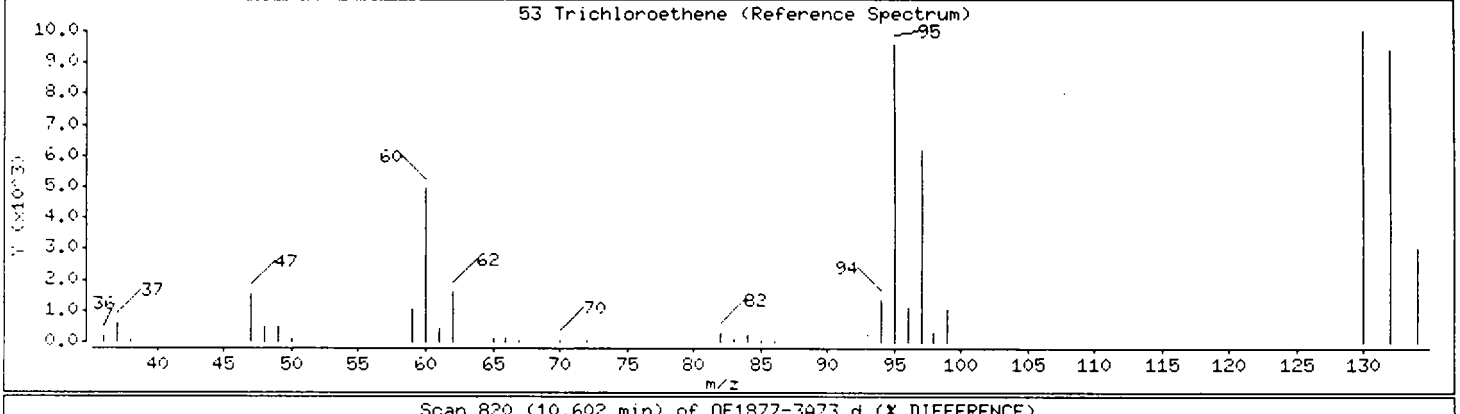
Column diameter: 0.32

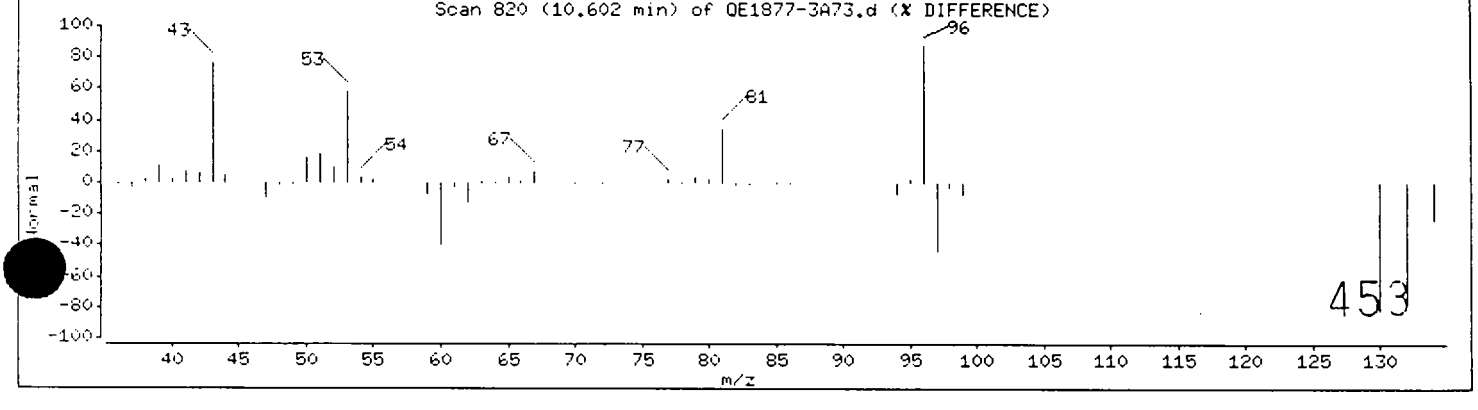
53 Trichloroethene

Concentration: 0.135 ug/L









Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-3A73.d

Date : 07-MAR-2002 15:16

Client ID: MW-8A

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

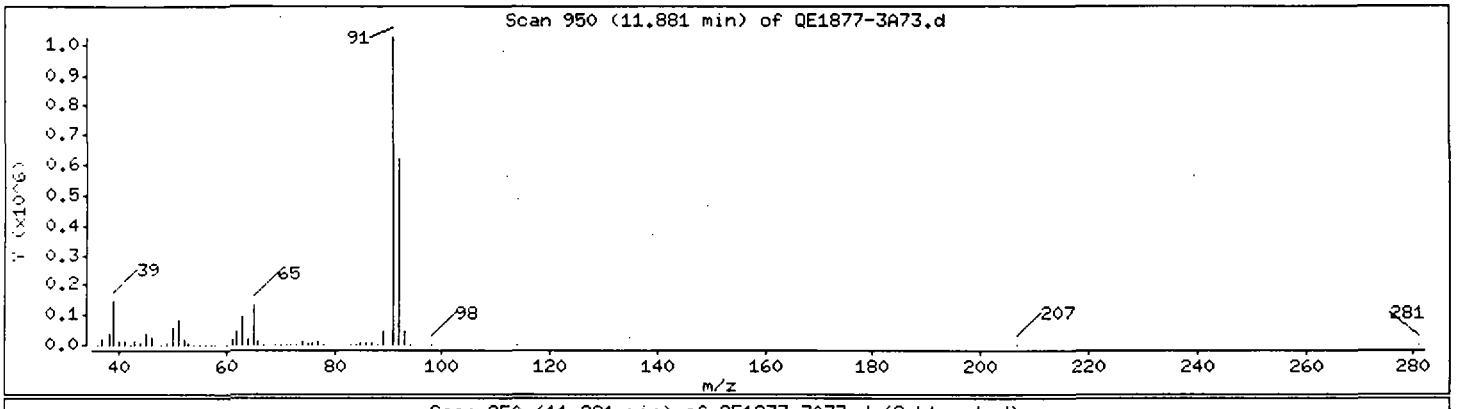
Operator: 2429

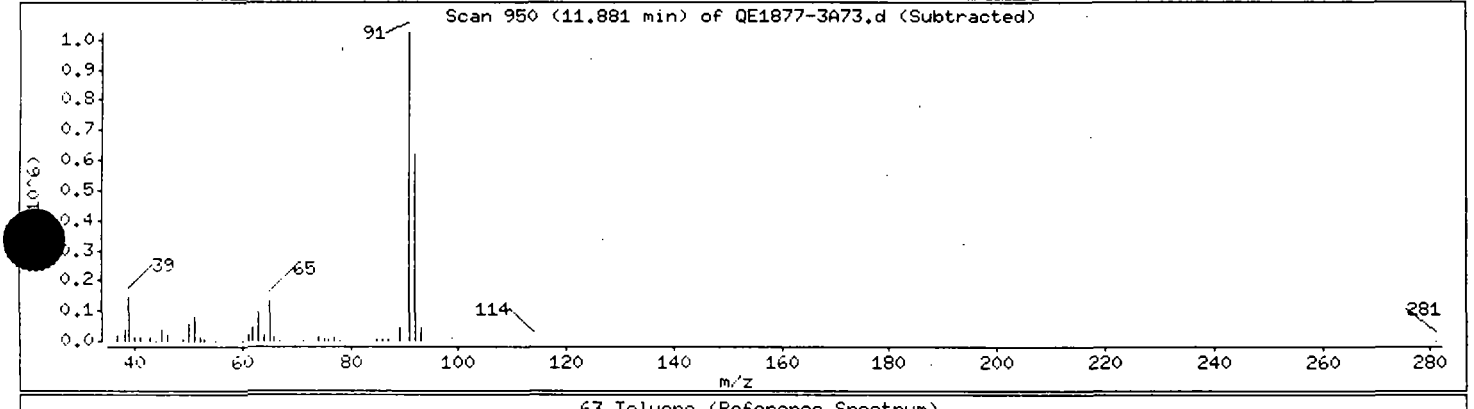
Column phase: ZB-624

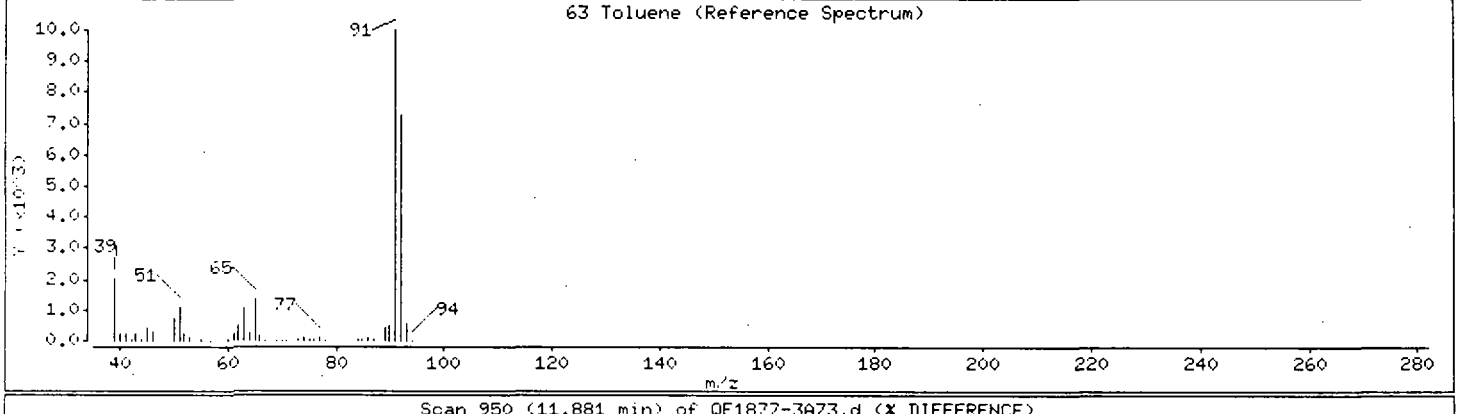
Column diameter: 0.32

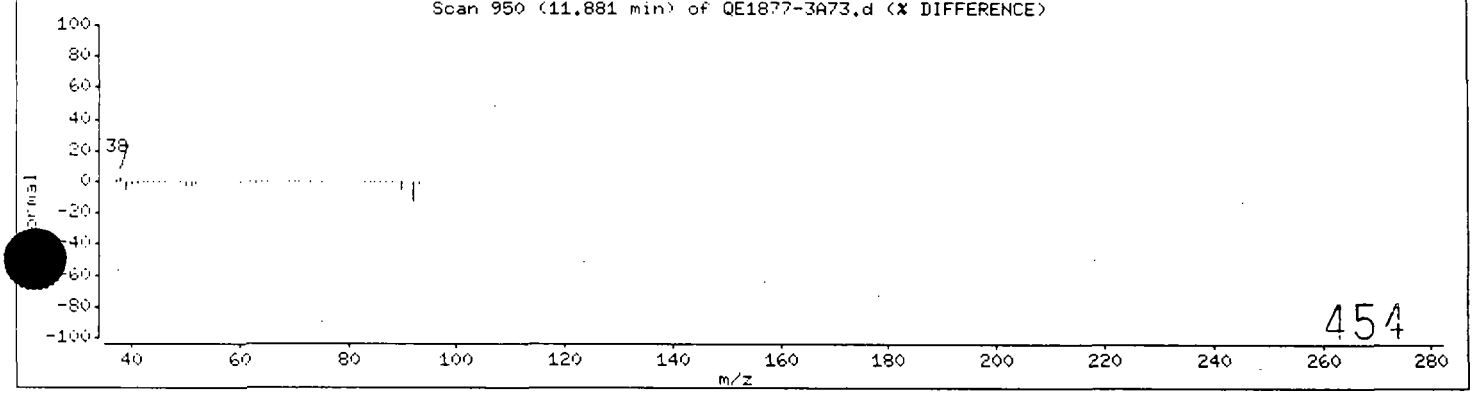
63 Toluene

Concentration: 33.59 ug/L









454

Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-3A73.d

Date : 07-MAR-2002 15:16

Client ID: MW-8A

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

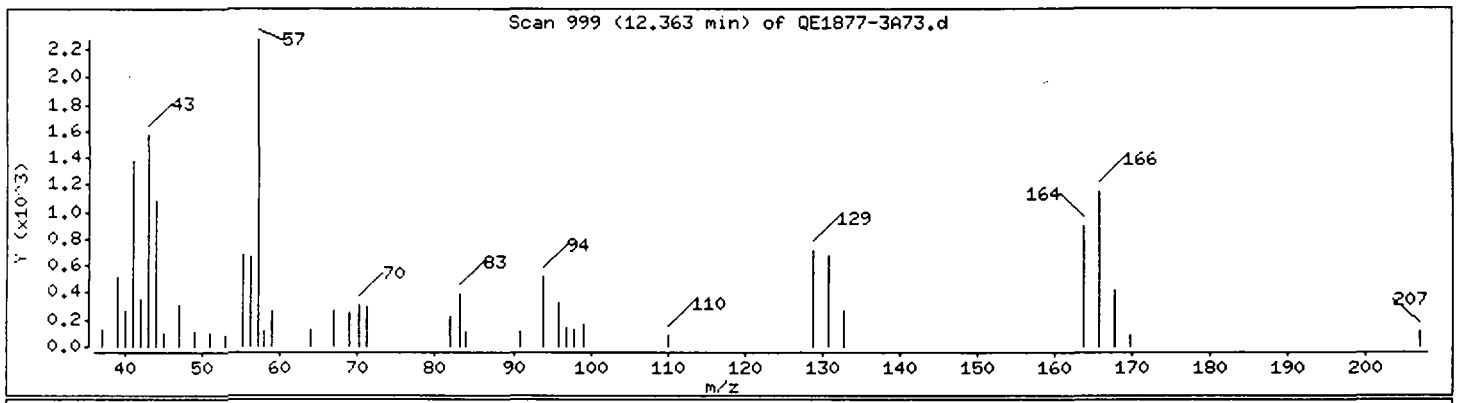
Operator: 2429

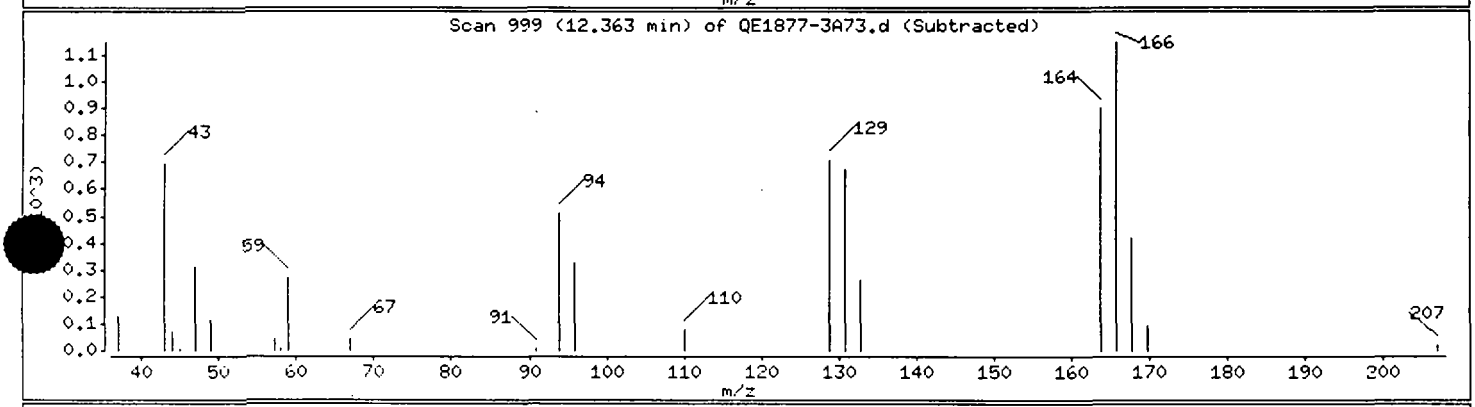
Column phase: ZB-624

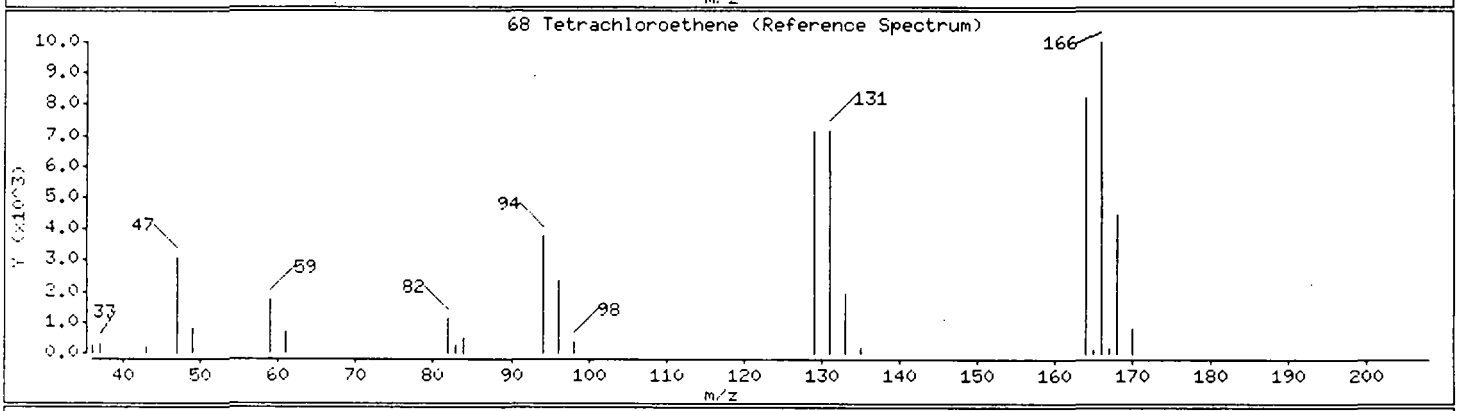
Column diameter: 0.32

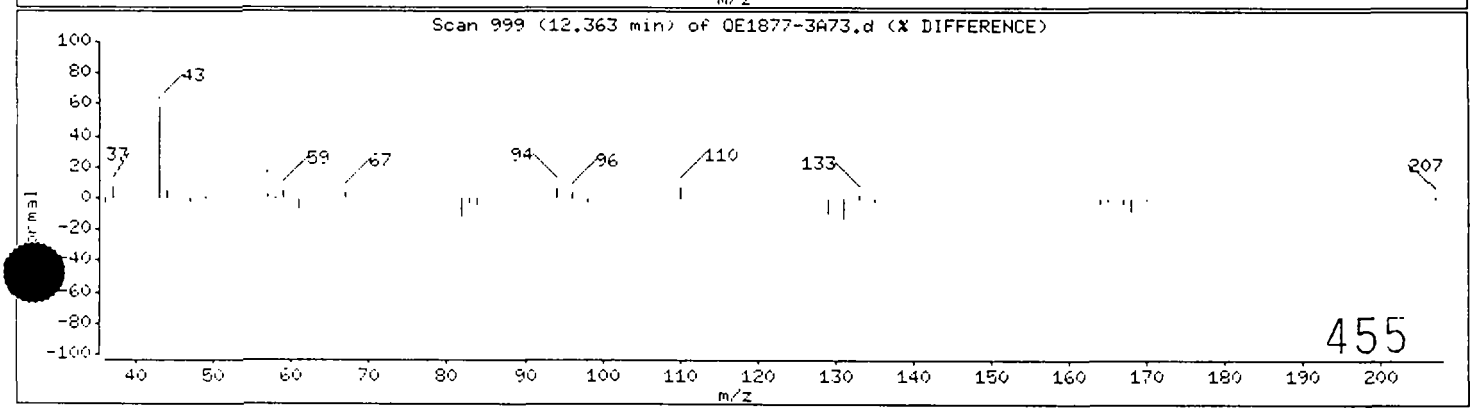
68 Tetrachloroethene

Concentration: 0.127 ug/L









Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-3A73.d

Date : 07-MAR-2002 15:16

Client ID: MW-8A

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

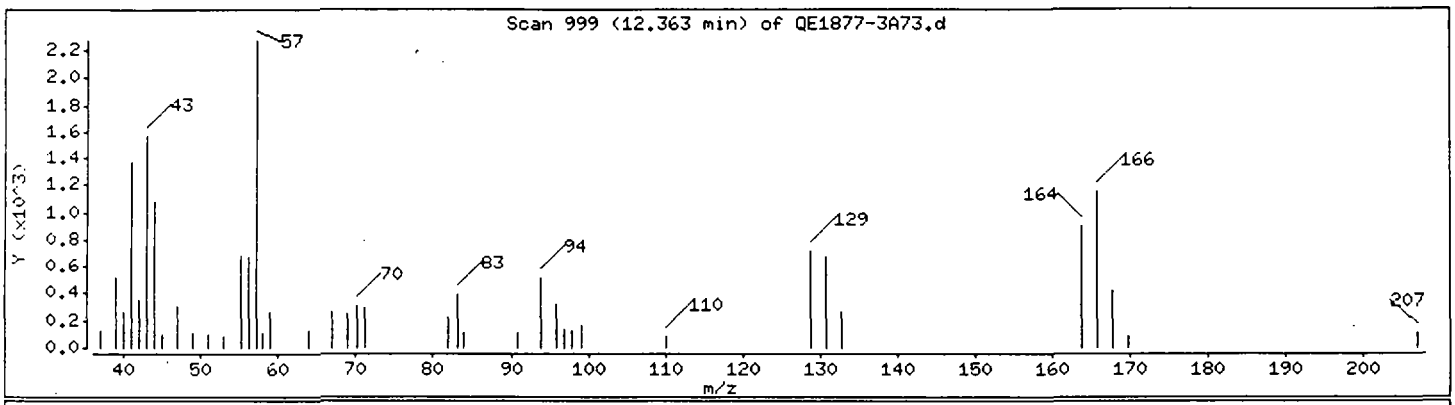
Operator: 2429

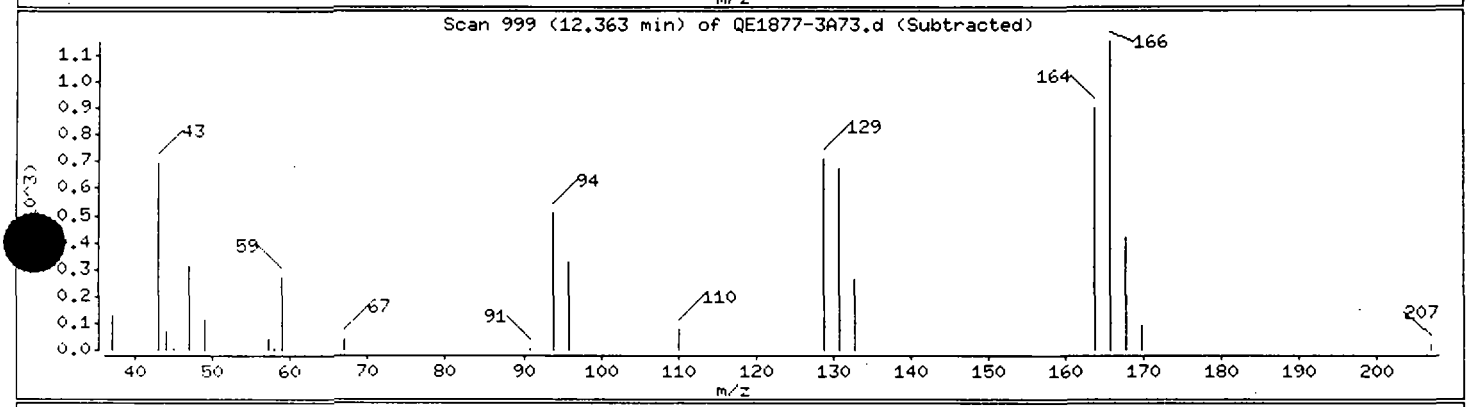
Column phase: ZB-624

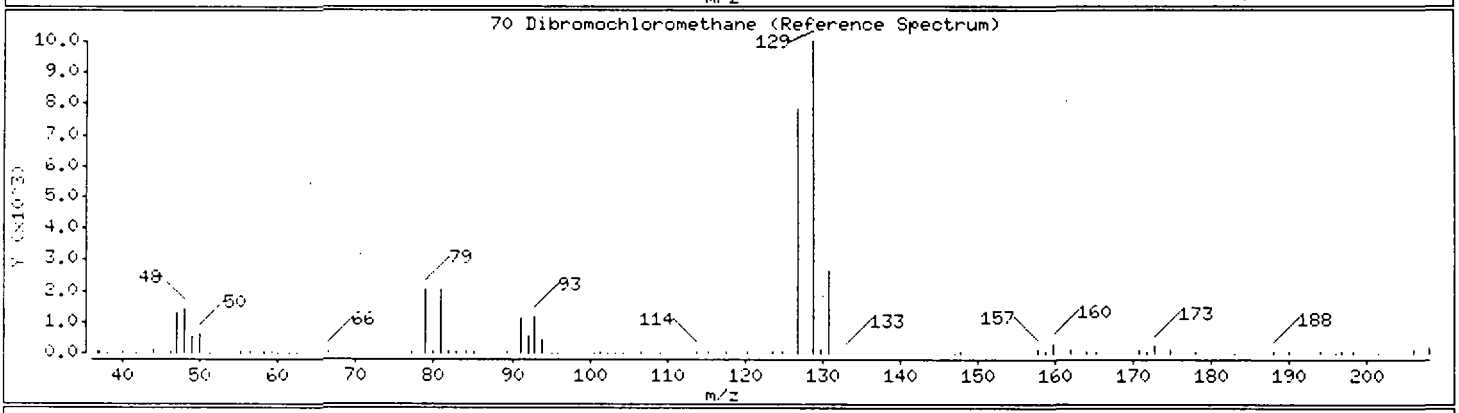
Column diameter: 0.32

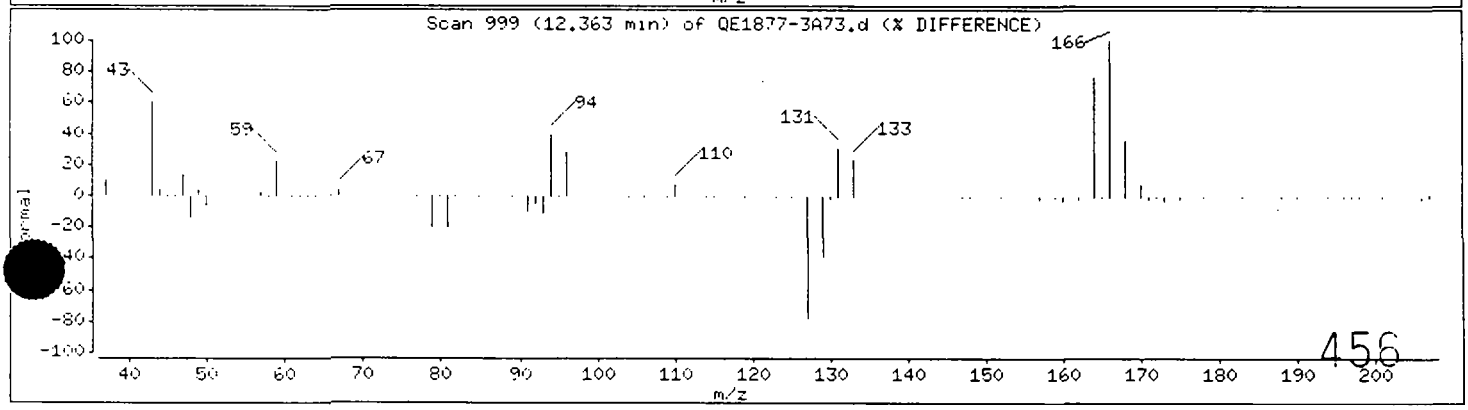
70 Dibromochloromethane

Concentration: 0.130 ug/L









Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-3A73.d

Date : 07-MAR-2002 15:16

Client ID: MW-8A

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

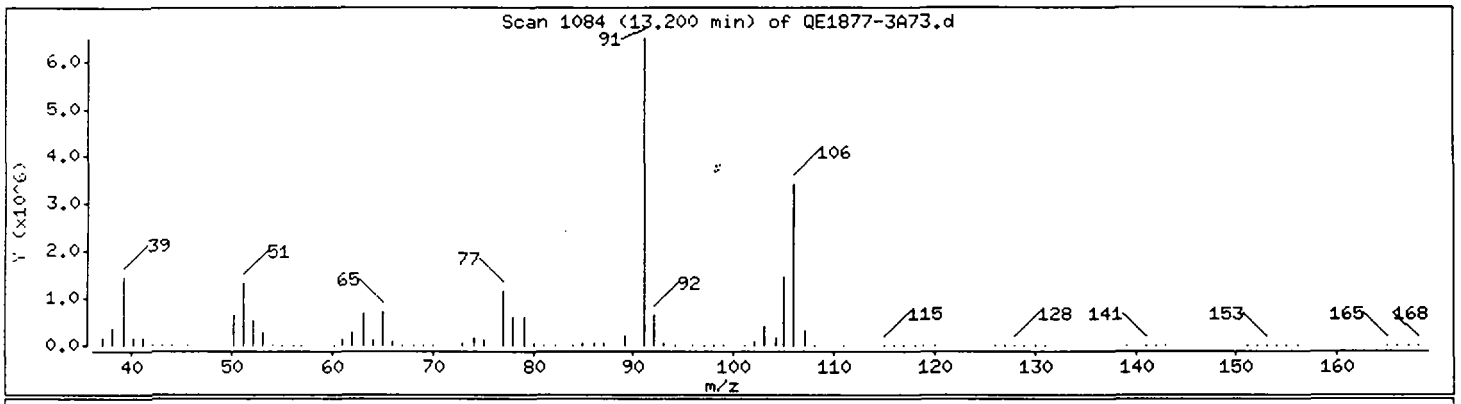
Operator: 2429

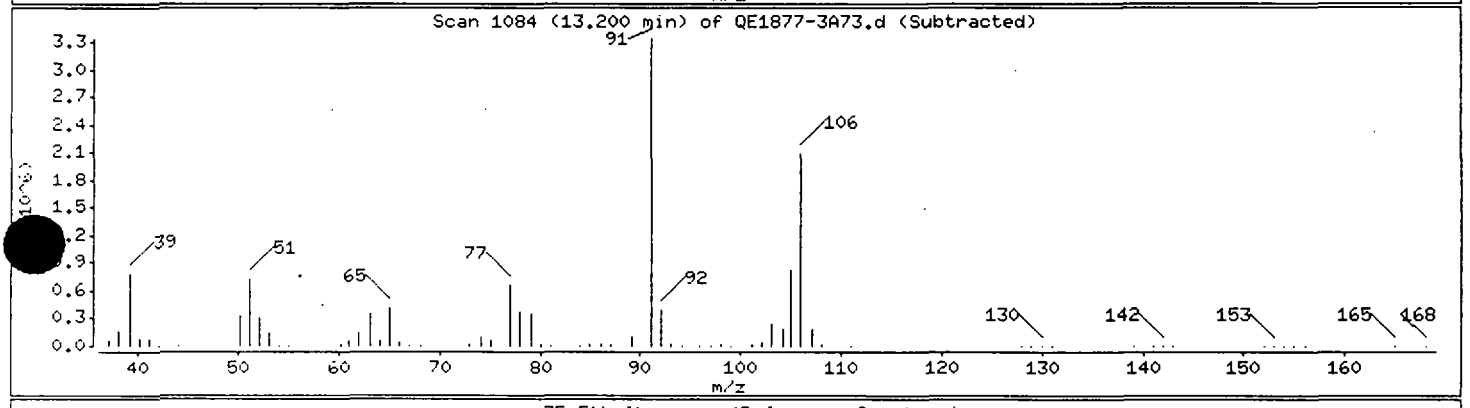
Column phase: ZB-624

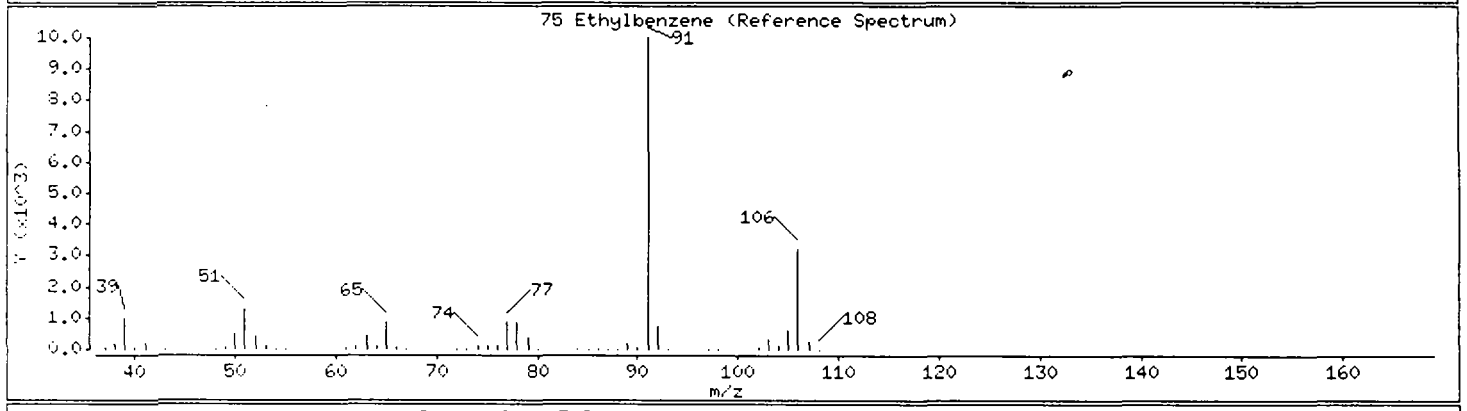
Column diameter: 0.32

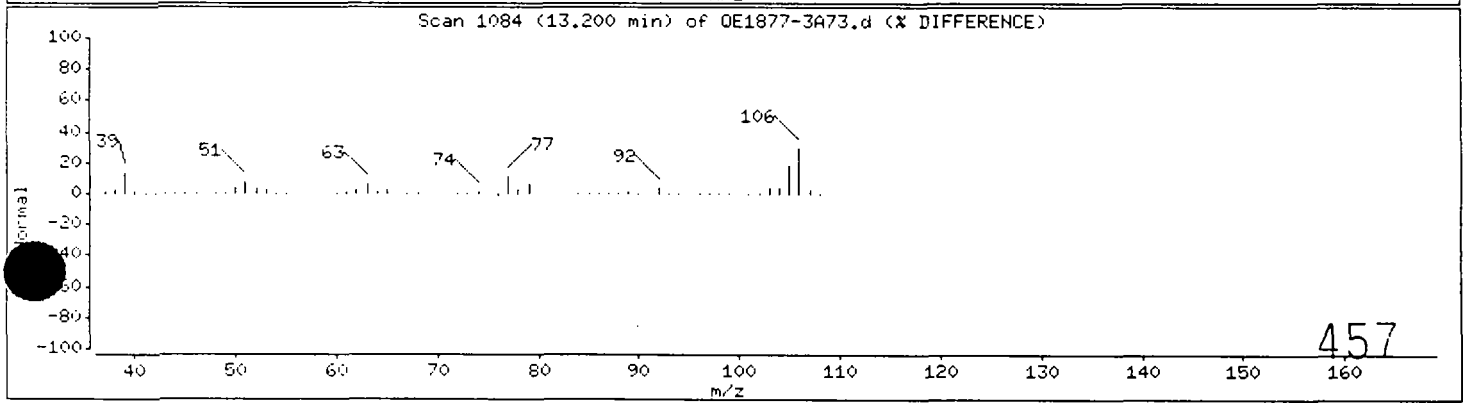
75 Ethylbenzene

Concentration: 1348 ug/L









Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-3A73.d

Date : 07-MAR-2002 15:16

Client ID: MW-8A

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

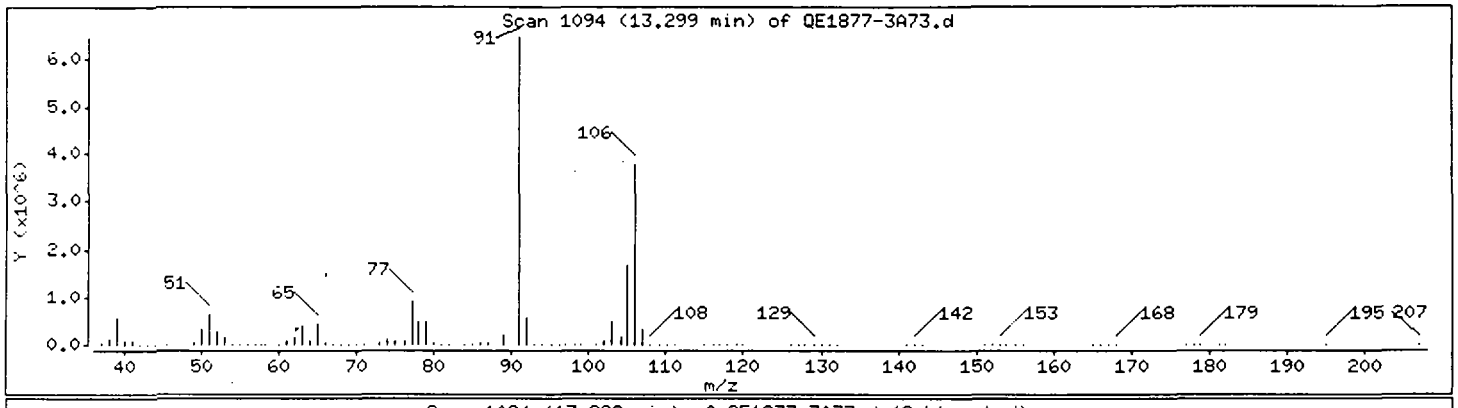
Operator: 2429

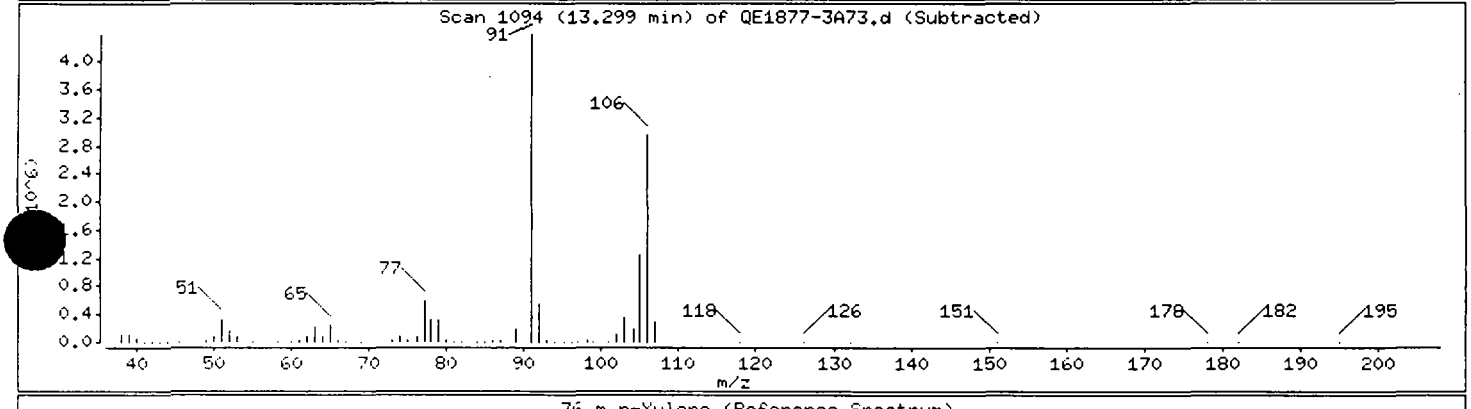
Column phase: ZB-624

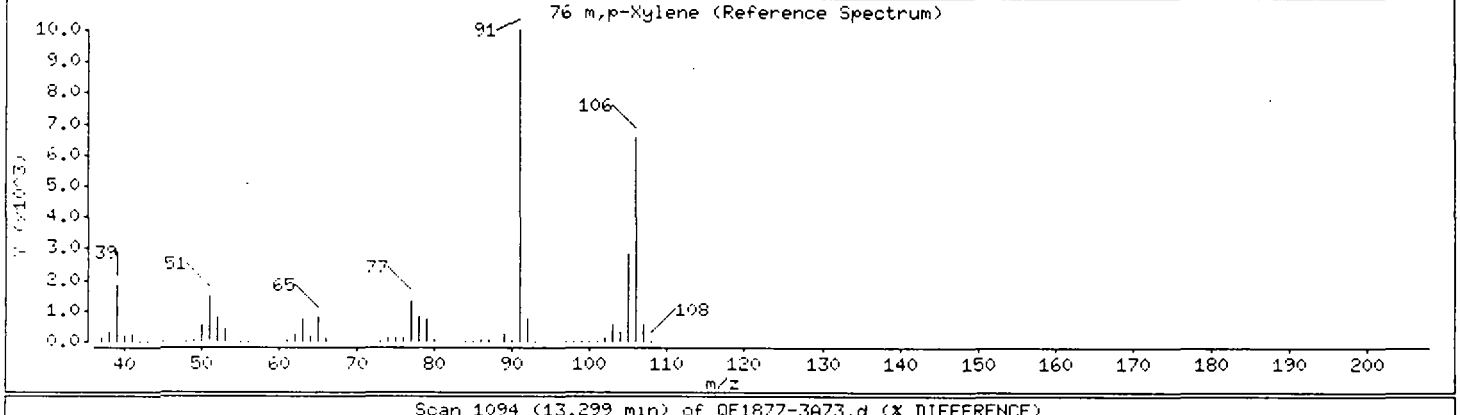
Column diameter: 0.32

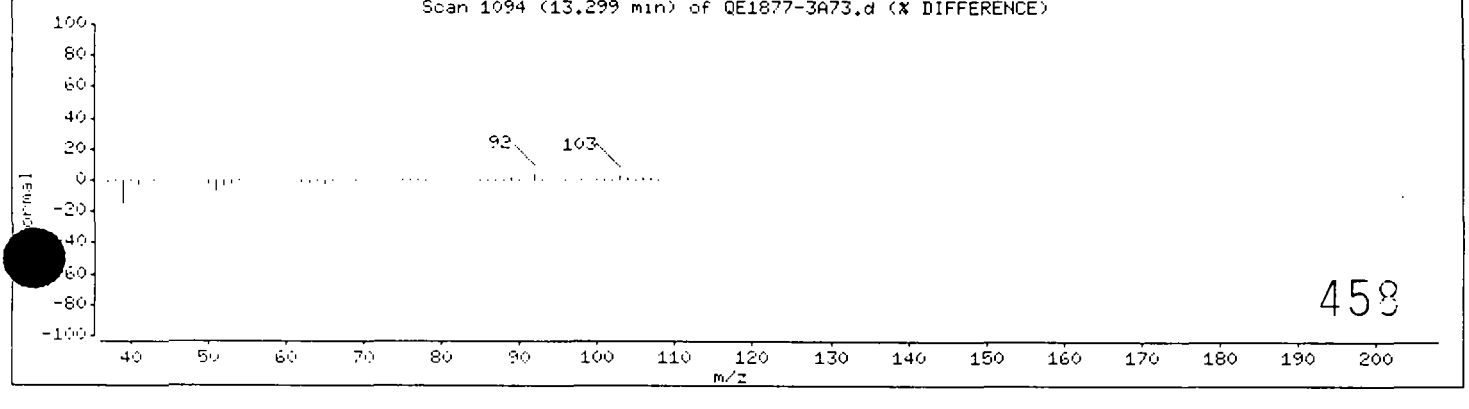
76 m,p-Xylene

Concentration: 399.3 ug/L









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Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-3A73.d

Date : 07-MAR-2002 15:16

Client ID: MW-8A

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

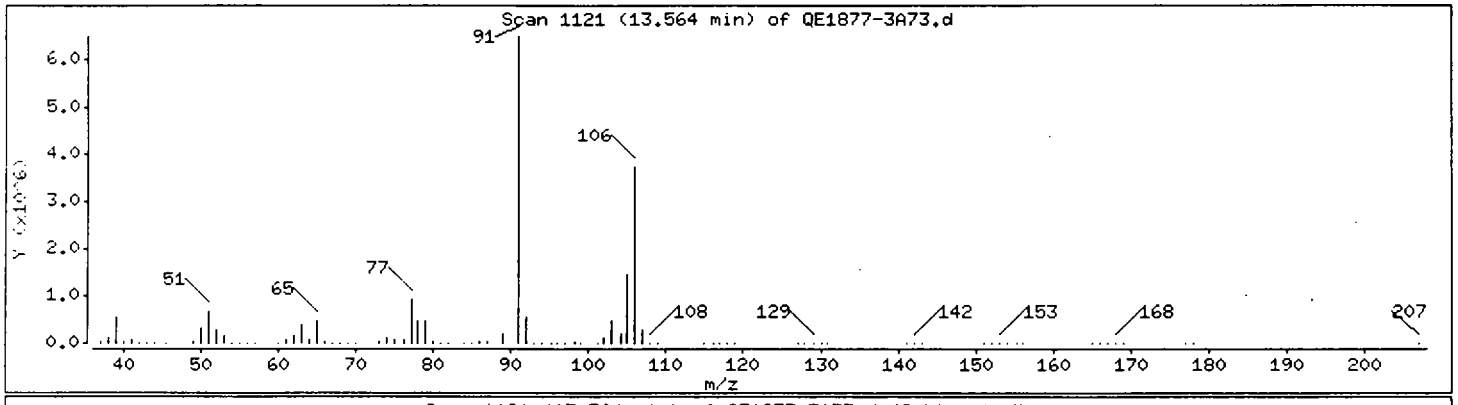
Operator: 2429

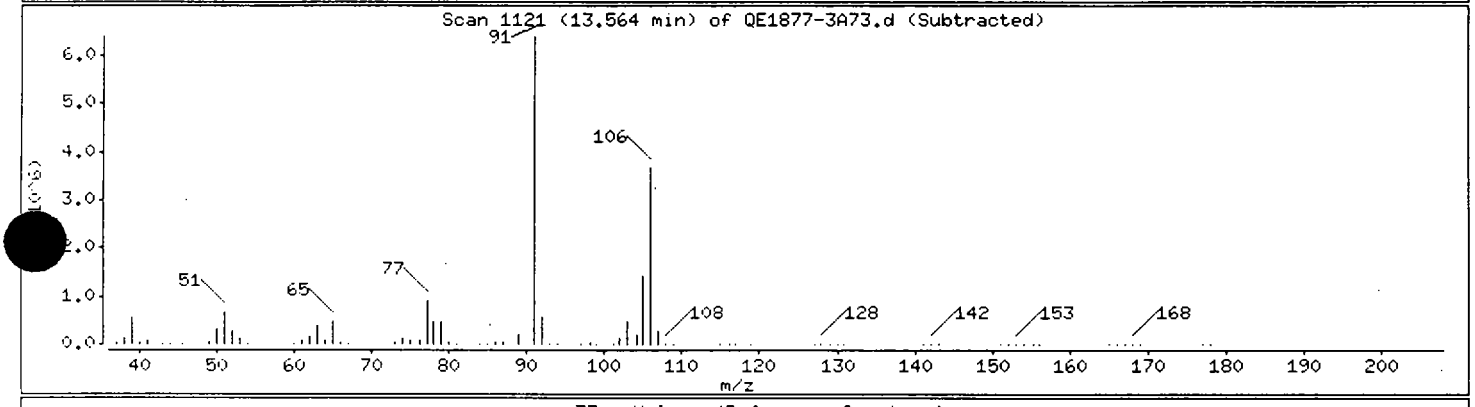
Column phase: ZB-624

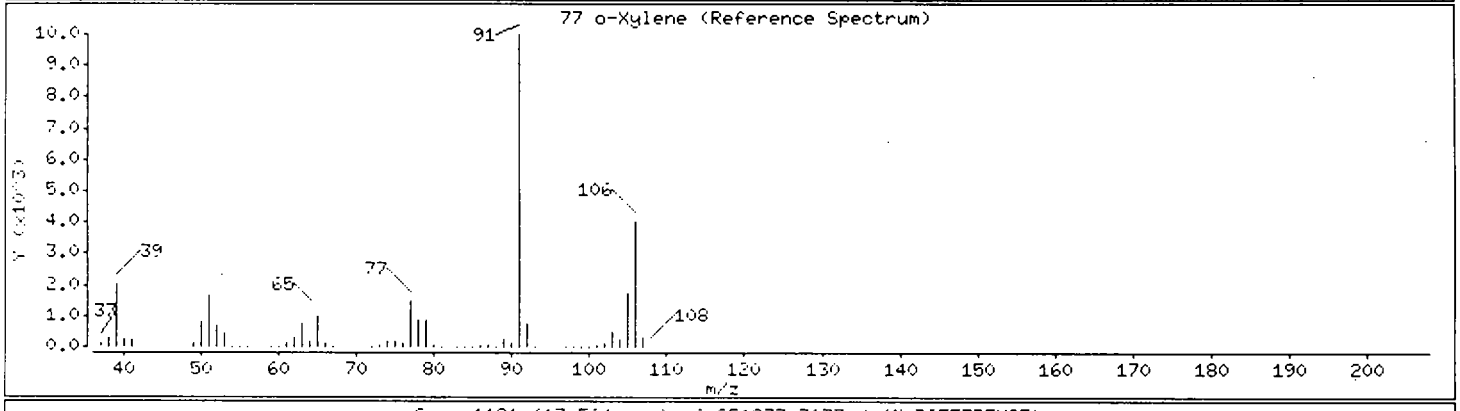
Column diameter: 0.32

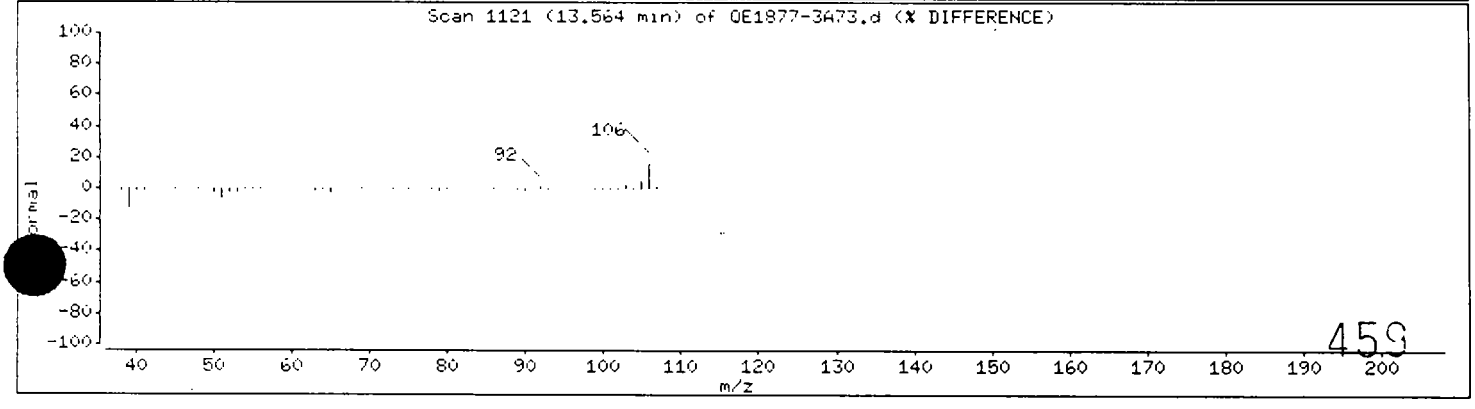
77 o-Xylene

Concentration: 619.4 ug/L









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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-8ADL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: QE1877-3

Sample wt/vol: 25 (g/ml) ML Lab File ID: QE1877-3D3A73

Level: (low/med) LOW Date Received: 03/06/02

% Moisture: not dec. _____ Date Analyzed: 03/08/02

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 714.2

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	360	U
75-01-4	Vinyl Chloride	360	U
74-83-9	Bromomethane	360	U
75-00-3	Chloroethane	360	U
75-35-4	1,1-Dichloroethene	360	U
75-15-0	Carbon disulfide	360	U
67-64-1	Acetone	1800	DB
75-09-2	Methylene Chloride	360	U
156-60-5	trans-1,2-Dichloroethene	360	U
75-34-3	1,1-Dichloroethane	360	U
156-59-2	cis-1,2-Dichloroethene	360	U
78-93-3	2-butanone	1800	U
67-66-3	Chloroform	21	DJB
71-55-6	1,1,1-Trichloroethane	360	U
56-23-5	Carbon Tetrachloride	360	U
71-43-2	Benzene	360	U
107-06-2	1,2-Dichloroethane	360	U
79-01-6	Trichloroethene	360	U
78-87-5	1,2-Dichloropropane	360	U
75-27-4	Bromodichloromethane	360	U
10061-01-5	cis-1,3-Dichloropropene	360	U
108-10-1	4-Methyl-2-pentanone	1800	U
108-88-3	Toluene	45	DJ
10061-02-6	trans-1,3-Dichloropropene	360	U
79-00-5	1,1,2-Trichloroethane	360	U
127-18-4	Tetrachloroethene	360	U
591-78-6	2-hexanone	1800	U
124-48-1	Dibromochloromethane	360	U
108-90-7	Chlorobenzene	360	U
100-41-4	Ethylbenzene	7600	DB
108-38-3	m,p-Xylene	29000	DB
95-47-6	o-Xylene	7200	DB
100-42-5	Styrene	360	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-8ADL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: QE1877-3

Sample wt/vol: 25 (g/ml) ML Lab File ID: QE1877-3D3A73

Level: (low/med) LOW Date Received: 03/06/02

% Moisture: not dec. _____ Date Analyzed: 03/08/02

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 714.2

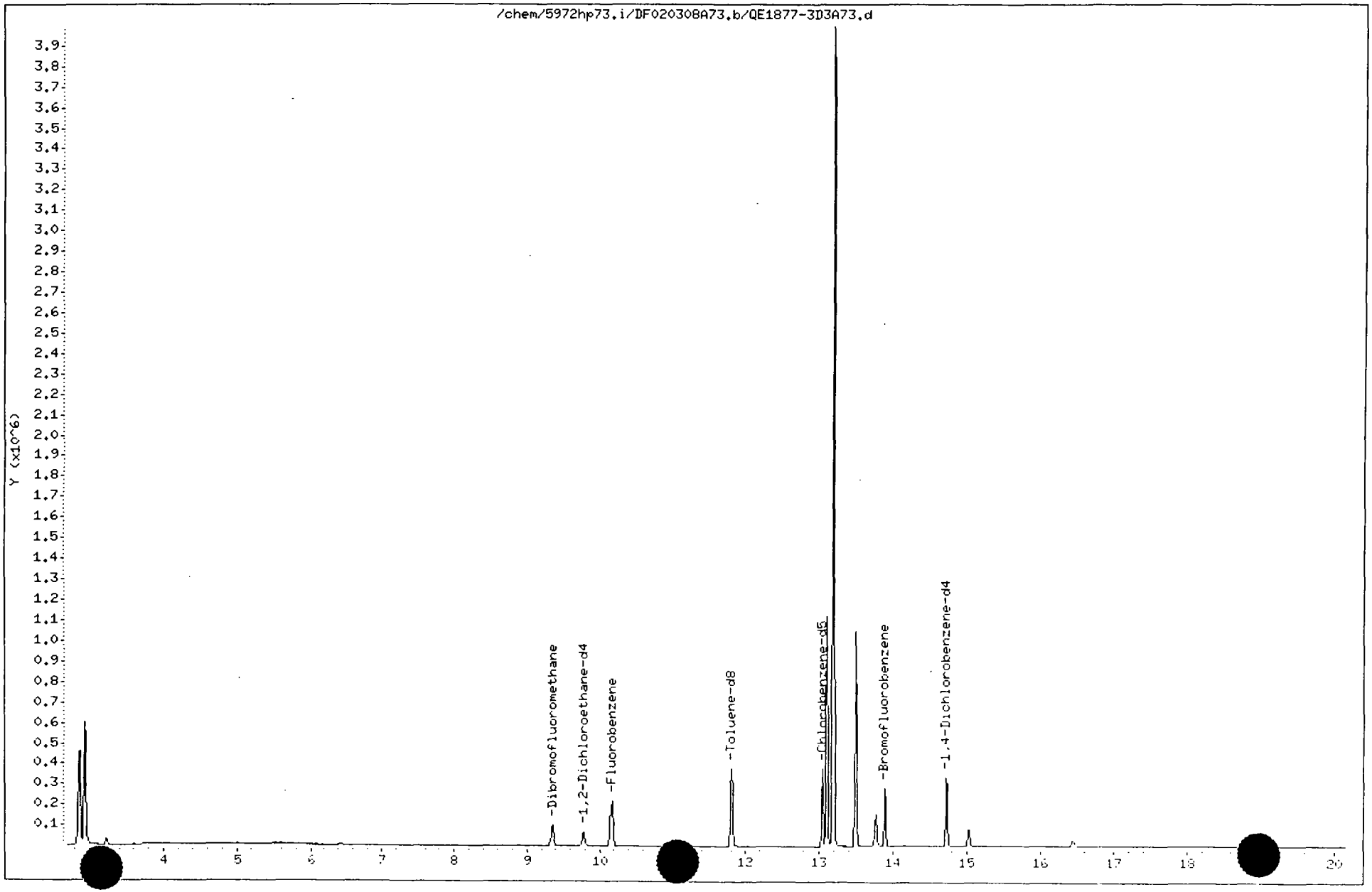
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-25-2	Bromoform	360	U
79-34-5	1,1,2,2-Tetrachloroethane	360	U
1330-20-7	Xylene (total)	38000	DB

FORM I VOA

Data File: /chem/5972hp73.i/DF020308A73.b/QE1877-3D3A73.d
Date : 08-MAR-2002 12:00
Client ID: MW-8ADL
Sample Info:
Purge Volume: 25.0
Column phase: ZB-624

Instrument: 5972hp73.i
Operator: 2429
Column diameter: 0.32



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Report Date: 11-Mar-2002 13:00

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF020308A73.b/QE1877-3D3A73.d
Lab Smp Id: QE1877-3 Client Smp ID: MW-8ADL
Inj Date : 08-MAR-2002 12:00
Operator : 2429 Inst ID: 5972hp73.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp73.i/DF020308A73.b/W8260-B-25MLv6.m
Meth Date : 11-Mar-2002 10:33 curtis Quant Type: ISTD
Cal Date : 22-FEB-2002 22:50 Cal File: CY020222B73.d
Als bottle: 9
Dil Factor: 714.20000
Integrator: HP RTE Compound Sublist: TCL3CT.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	714.20000	Dilution Factor
Vo	25.00000	volume of water
DF	714.20000	dilution factor

d Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
1 Fluorobenzene	96	10.164	10.164	(1.000)	248186	125.000	
2 Chlorobenzene-d5	117	13.048	13.048	(1.000)	184623	125.000	
3 1,4-Dichlorobenzene-d4	152	14.731	14.731	(1.000)	92095	125.000	
4 Dibromofluoromethane	113	9.347	9.347	(0.920)	75363	130.929	3740
5 1,2-Dichloroethane-d4	65	9.780	9.770	(0.962)	57062	116.742	3335
6 Toluene-d8	98	11.808	11.808	(0.905)	242733	131.087	3745
7 Bromofluorobenzene	95	13.895	13.894	(0.943)	87642	131.650	3761
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
16 1,1-Dichloroethene	96	Compound Not Detected.					
21 Carbon disulfide	76	Compound Not Detected.					
18 Acetone	43	6.434	6.424	(0.633)	6511	63.8384	1824
24 Methylene Chloride	84	Compound Not Detected.					
27 trans-1,2-Dichloroethene	96	Compound Not Detected.					

Data File: /chem/5972hp73.i/DF020308A73.b/QE1877-3D3A73.d
Report Date: 11-Mar-2002 13:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
30 1,1-Dichloroethane	63	Compound Not Detected.					
34 cis-1,2-Dichloroethene	96	Compound Not Detected.					
37 2-butanone	43	Compound Not Detected.					
42 Chloroform	83	9.141	9.140	(0.899)	960	0.74961	21.41(a)
43 1,1,1-Trichloroethane	97	Compound Not Detected.					
48 Carbon Tetrachloride	117	Compound Not Detected.					
51 Benzene	78	Compound Not Detected.					
49 1,2-Dichloroethane	62	Compound Not Detected.					
53 Trichloroethene	130	Compound Not Detected.					
55 1,2-Dichloropropane	63	Compound Not Detected.					
59 Bromodichloromethane	83	Compound Not Detected.					
61 cis-1,3-Dichloropropene	75	Compound Not Detected.					
62 4-Methyl-2-pentanone	43	Compound Not Detected.					
63 Toluene	92	11.867	11.867	(0.909)	2381	1.56516	44.71(a)
64 trans-1,3-Dichloropropene	75	Compound Not Detected.					
65 1,1,2-Trichloroethane	97	Compound Not Detected.					
68 Tetrachloroethene	164	Compound Not Detected.					
69 2-hexanone	43	Compound Not Detected.					
70 Dibromochloromethane	129	Compound Not Detected.					
72 Chlorobenzene	112	Compound Not Detected.					
75 Ethylbenzene	106	13.117	13.107	(1.005)	230724	266.303	7608
76 m,p-Xylene	106	13.186	13.195	(1.011)	1101934	1022.68	29220
77 o-Xylene	106	13.501	13.501	(1.035)	253035	251.061	7172
78 Styrene	104	Compound Not Detected.					
[illegible] Bromoform	173	Compound Not Detected.					
[illegible] 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
M 107 Xylene (total)	106				1354969	1344.40	38410

QC Flag Legend

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

Data File: /chem/5972hp73.i/DF020308A73.b/QE1877-3D3A73.d

Date : 08-MAR-2002 12:00

Client ID: MW-8ADL

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

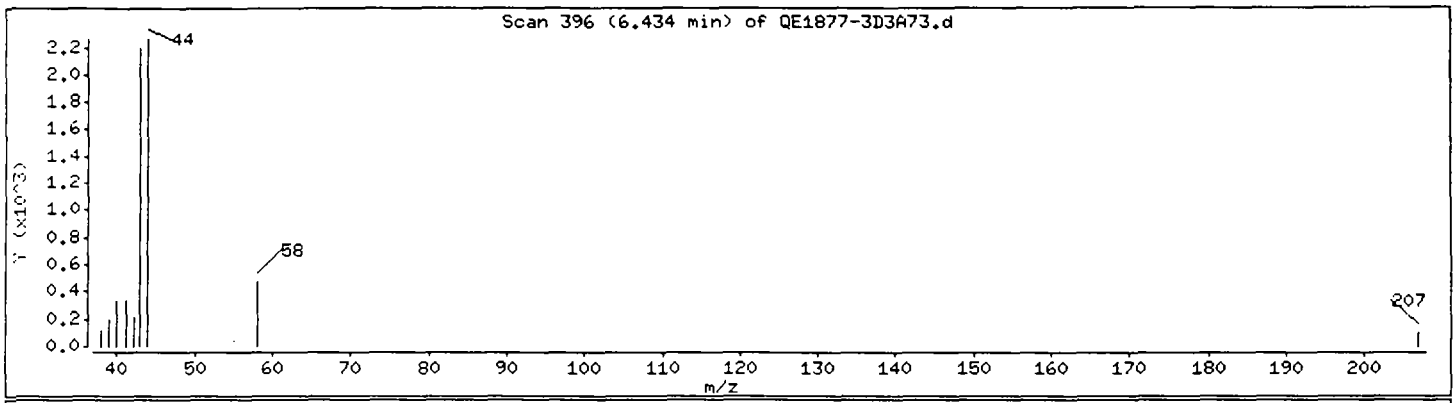
Operator: 2429

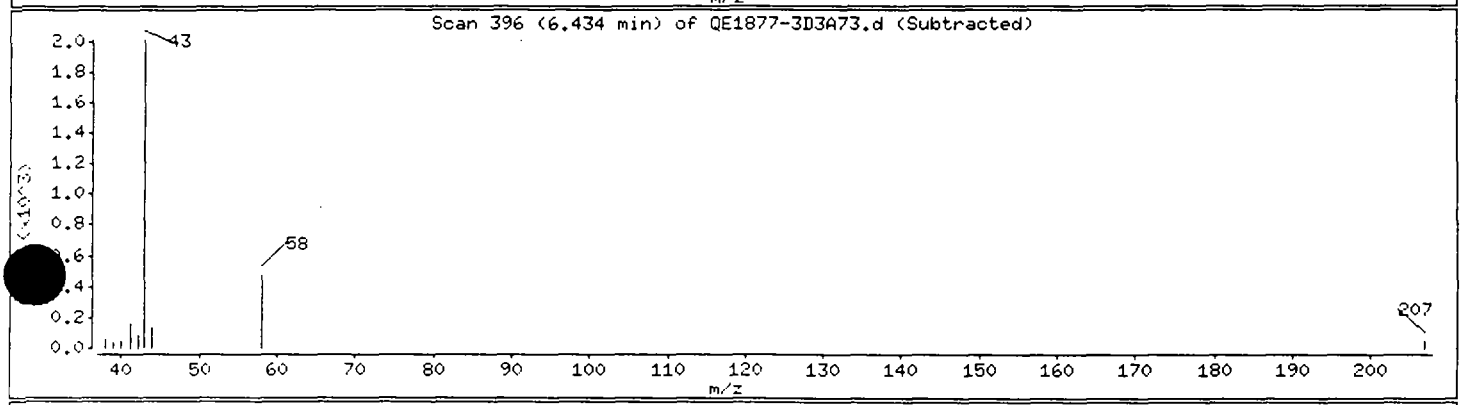
Column phase: ZB-624

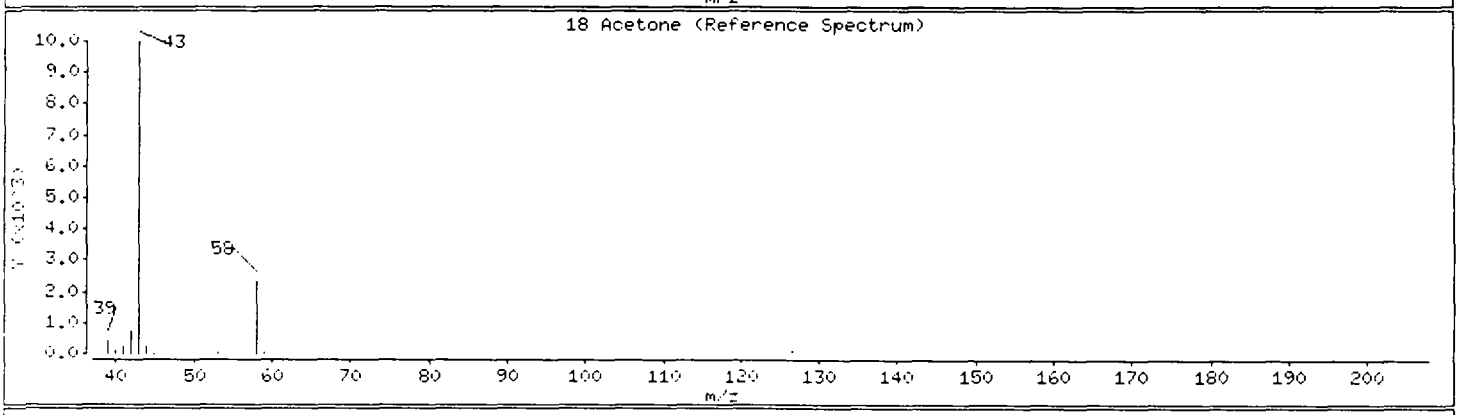
Column diameter: 0.32

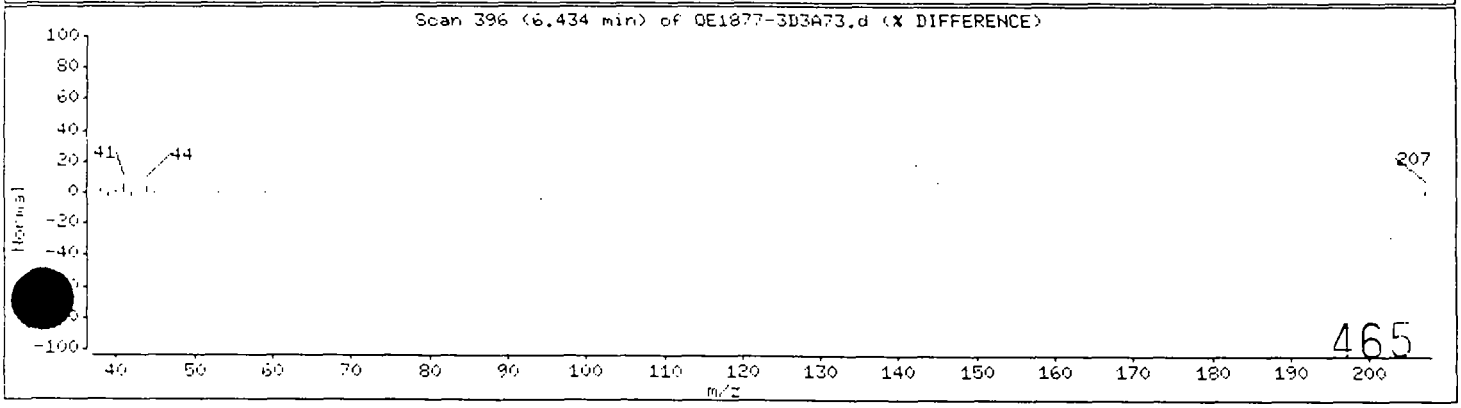
18 Acetone

Concentration: 1824 ug/L









Data File: /chem/5972hp73.i/DF020308A73.b/QE1877-3D3A73.d

Date : 08-MAR-2002 12:00

Client ID: MW-8ADL

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

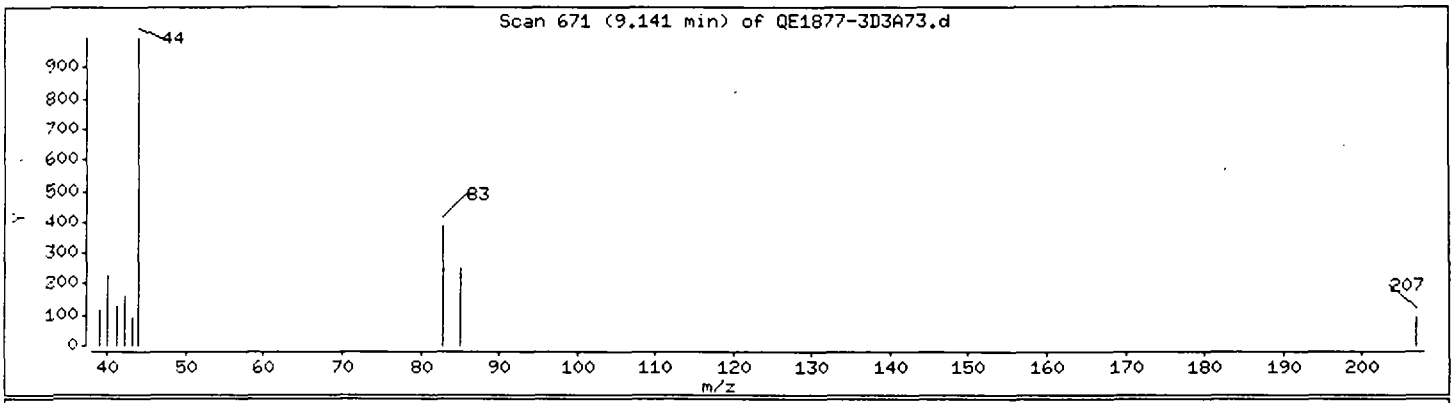
Operator: 2429

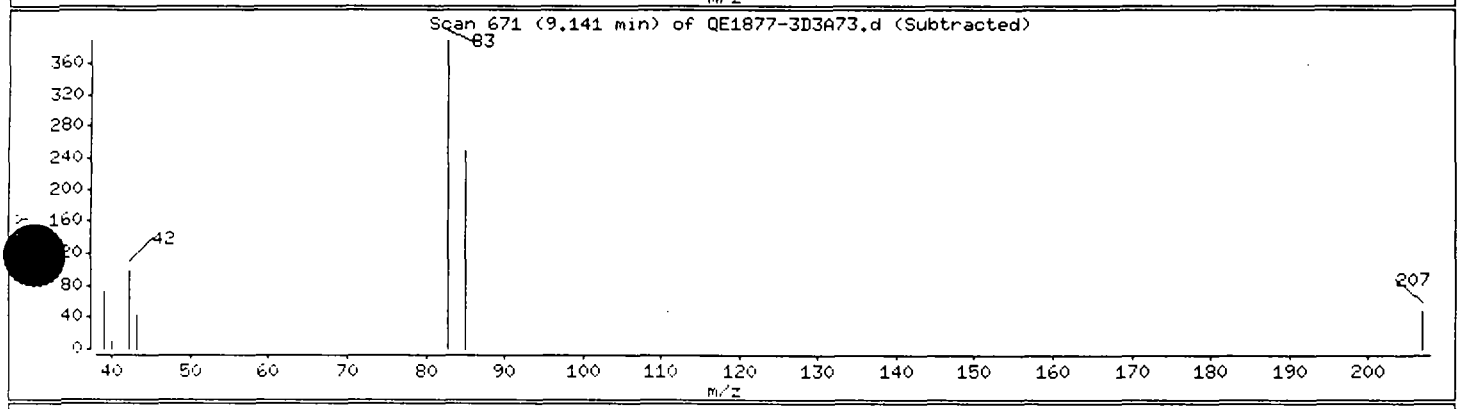
Column phase: ZB-624

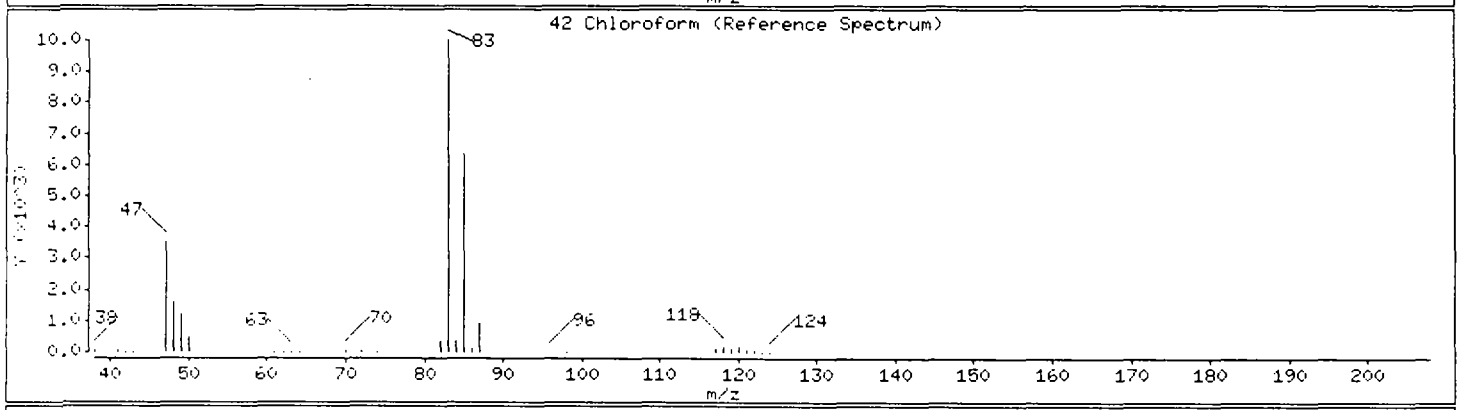
Column diameter: 0.32

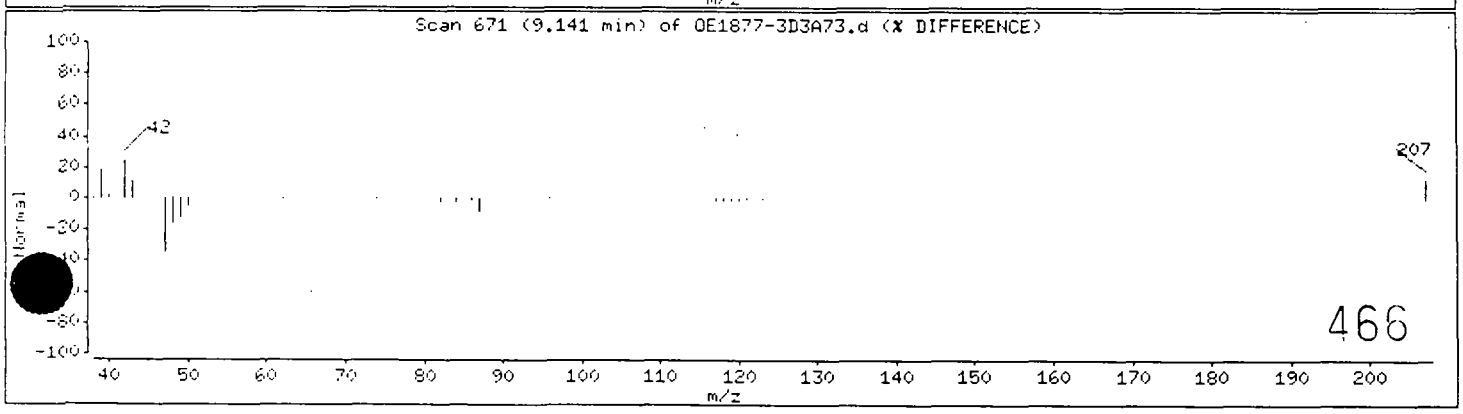
42 Chloroform

Concentration: 21.41 ug/L









466

Data File: /chem/5972hp73.i/DF020308A73.b/QE1877-3D3A73.d

Date : 08-MAR-2002 12:00

Client ID: MW-8ADL

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

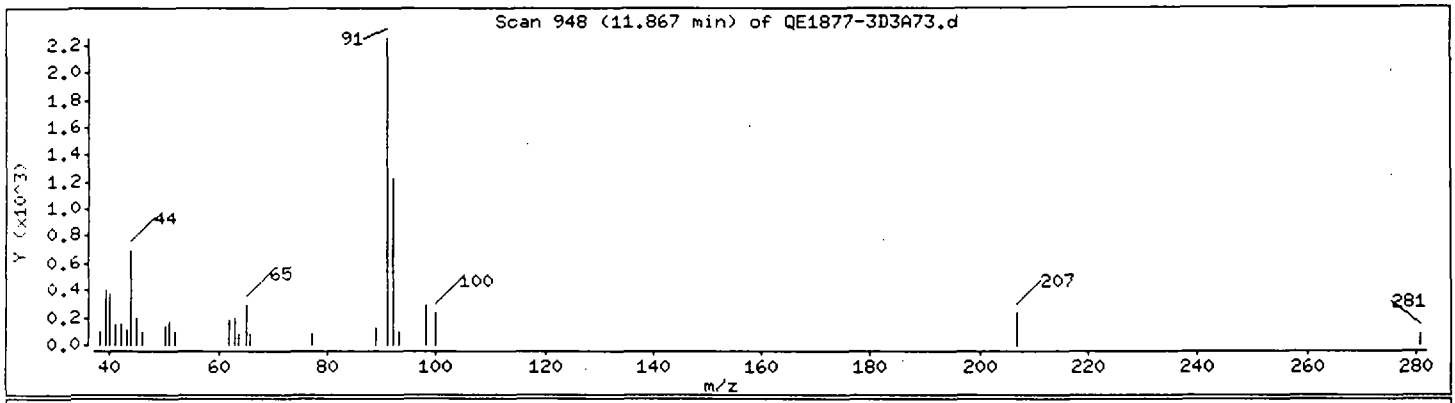
Operator: 2429

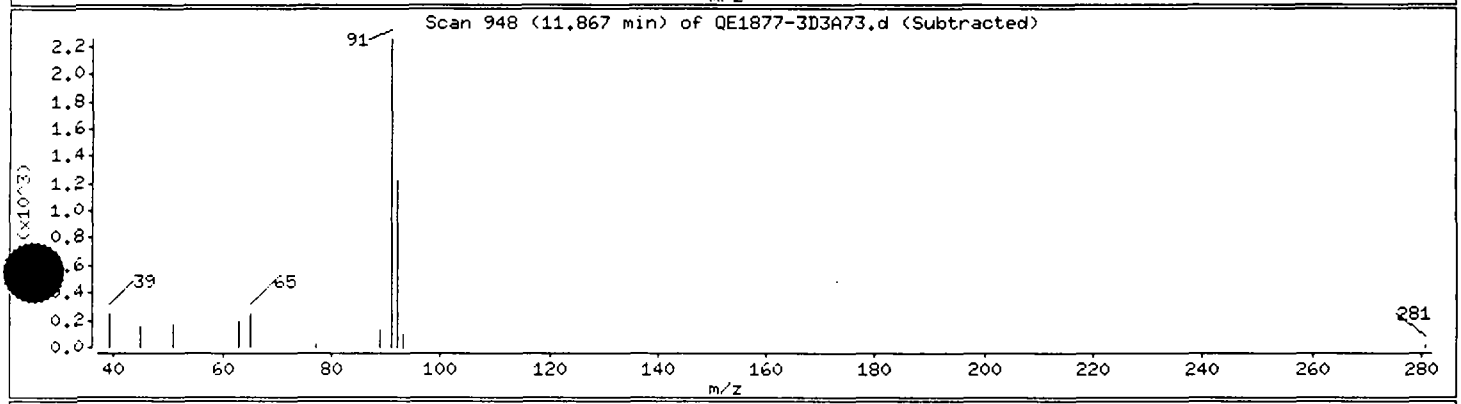
Column phase: ZB-624

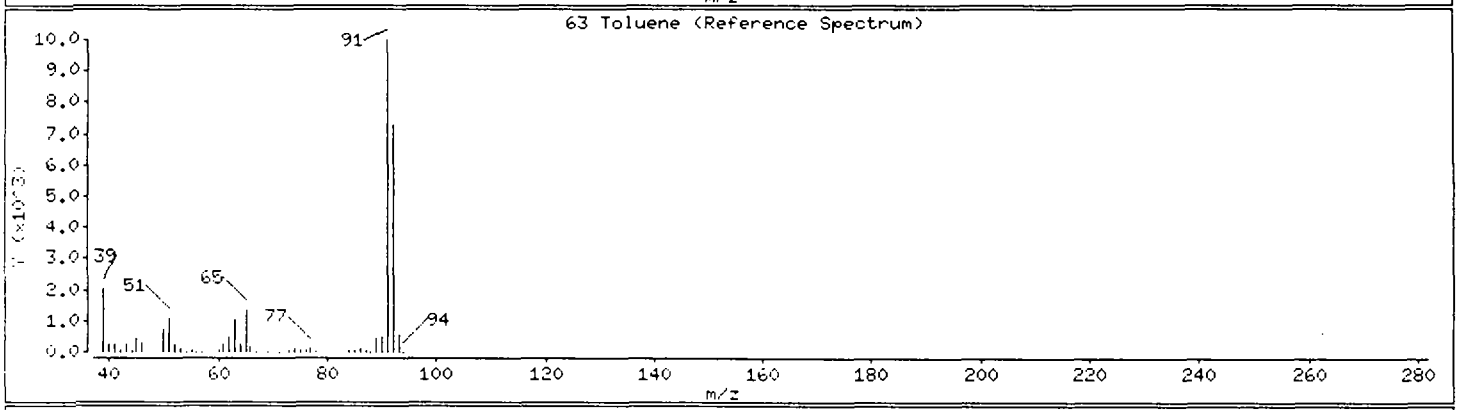
Column diameter: 0.32

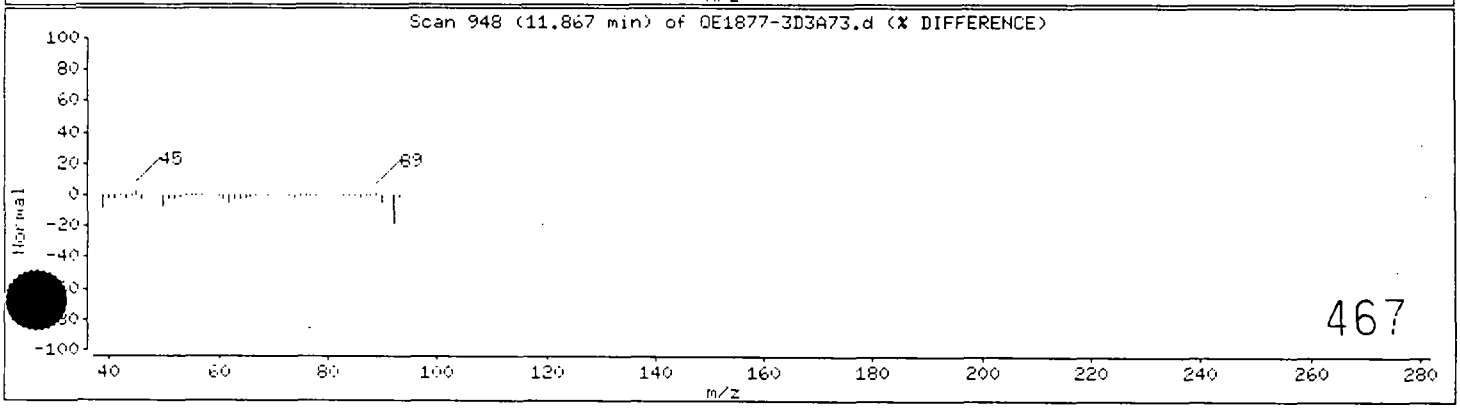
63 Toluene

Concentration: 44.71 ug/L









467

Data File: /chem/5972hp73.i/DF020308A73.b/QE1877-3D3A73.d

Date : 08-MAR-2002 12:00

Client ID: MW-8ADL

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

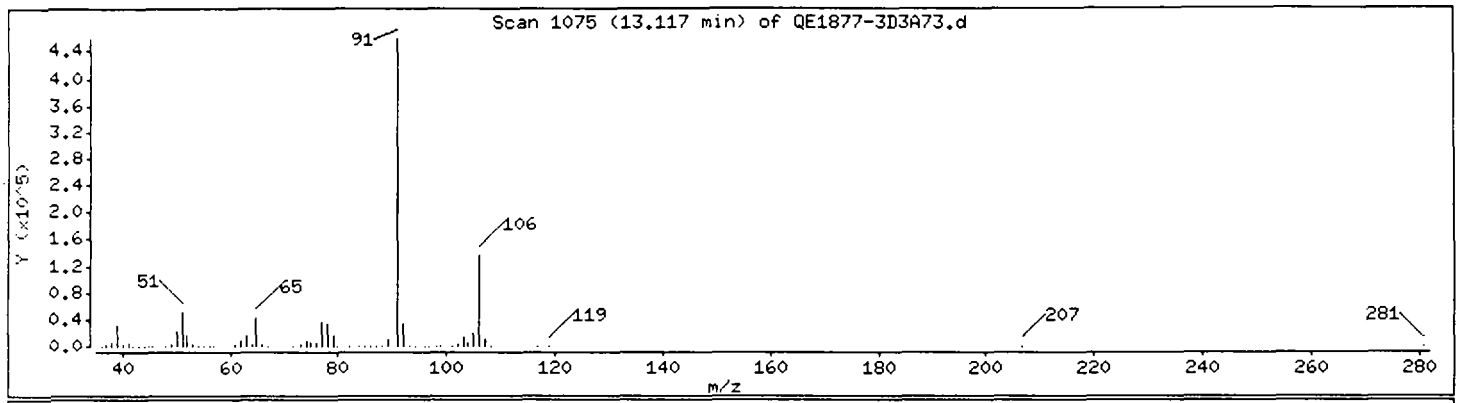
Operator: 2429

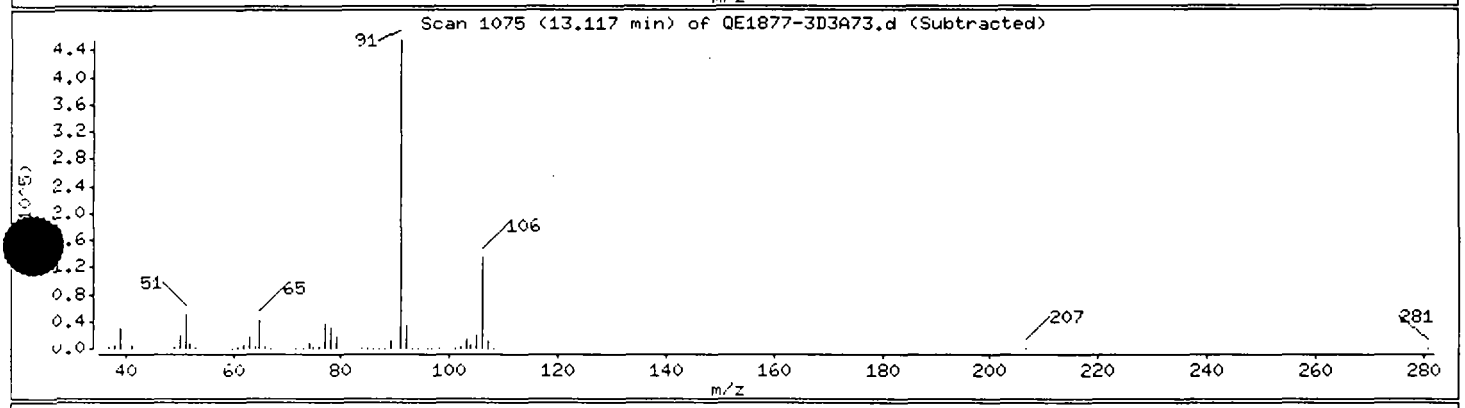
Column phase: ZB-624

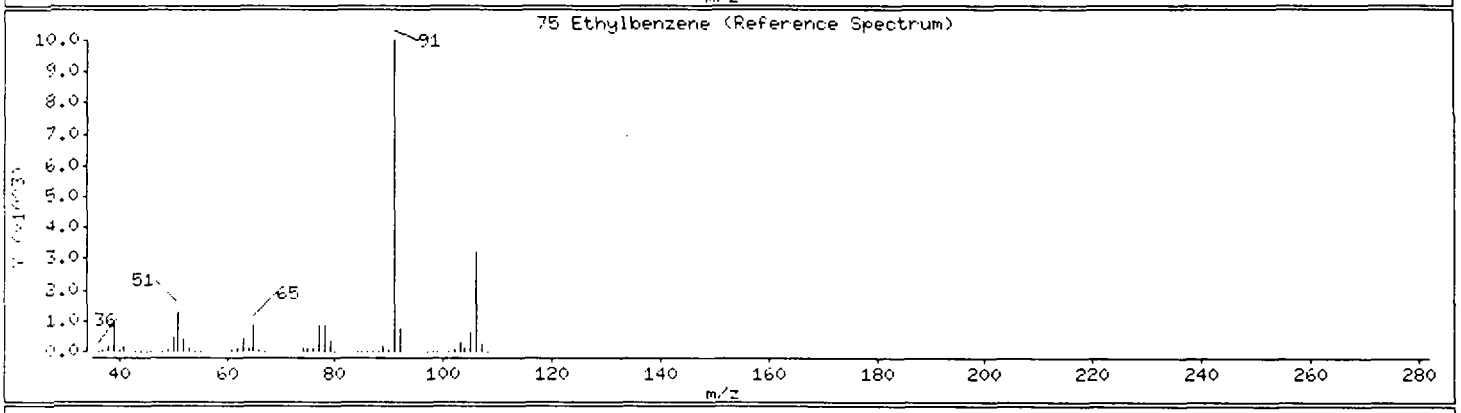
Column diameter: 0.32

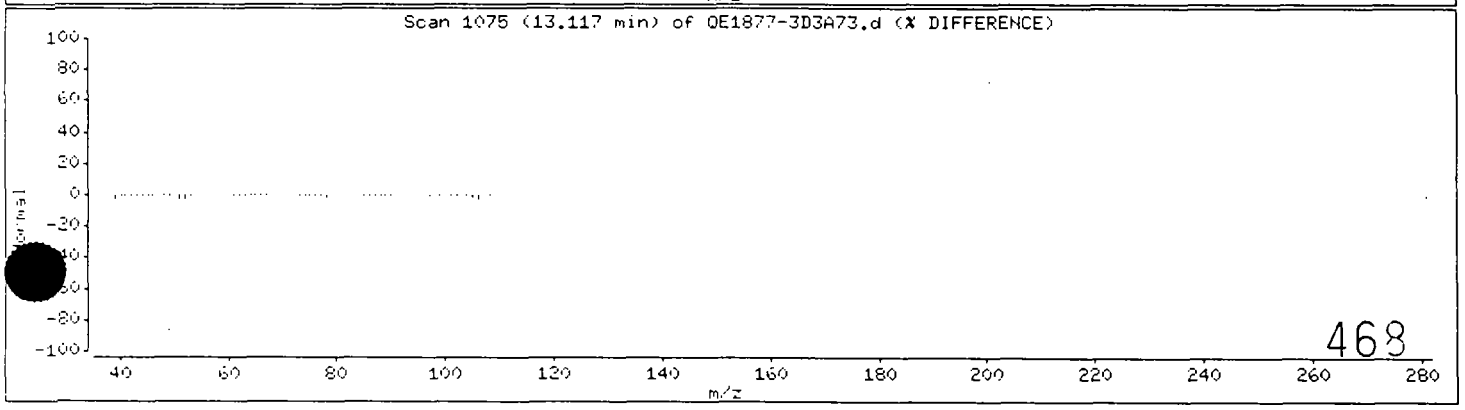
75 Ethylbenzene

Concentration: 7608 ug/L









468

Data File: /chem/5972hp73.i/DF020308A73.b/QE1877-3D3A73.d

Date : 08-MAR-2002 12:00

Client ID: MW-8ADL

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

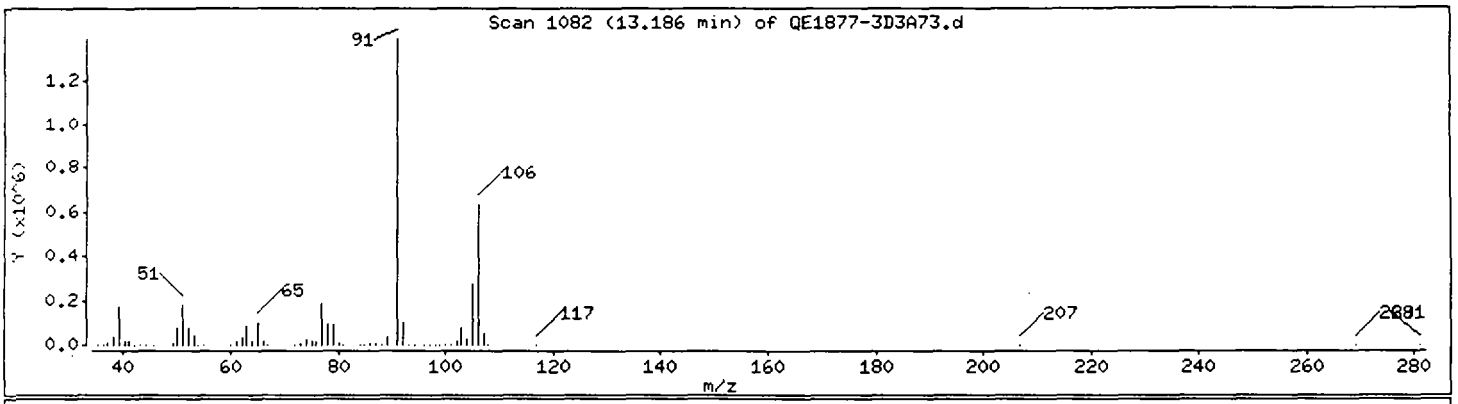
Operator: 2429

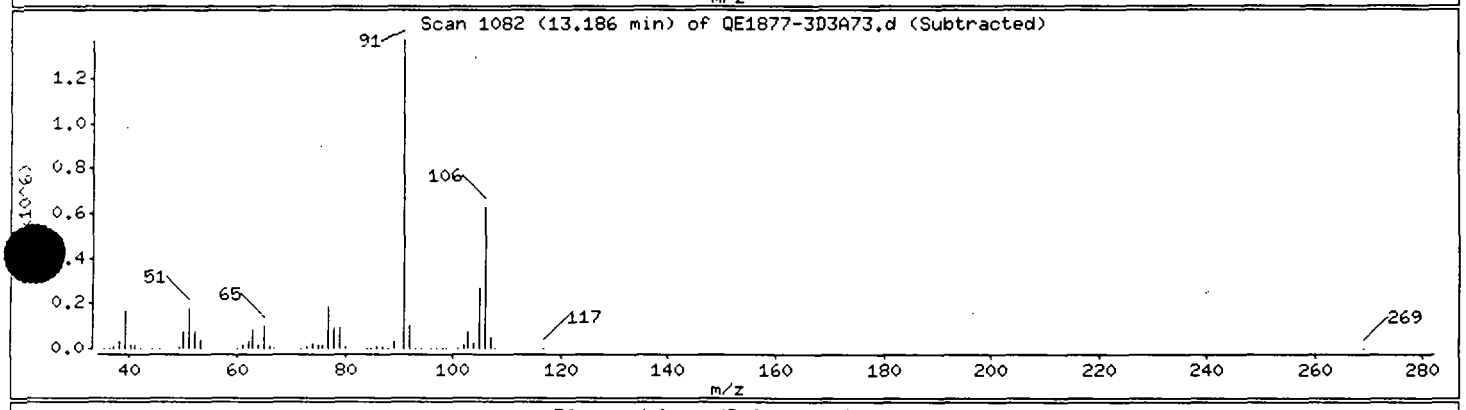
Column phase: ZB-624

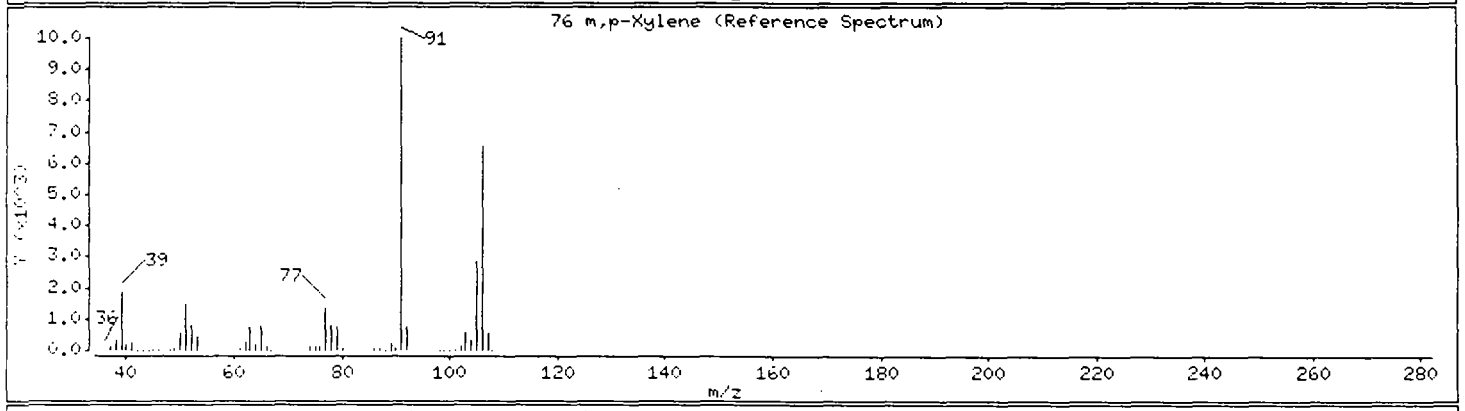
Column diameter: 0.32

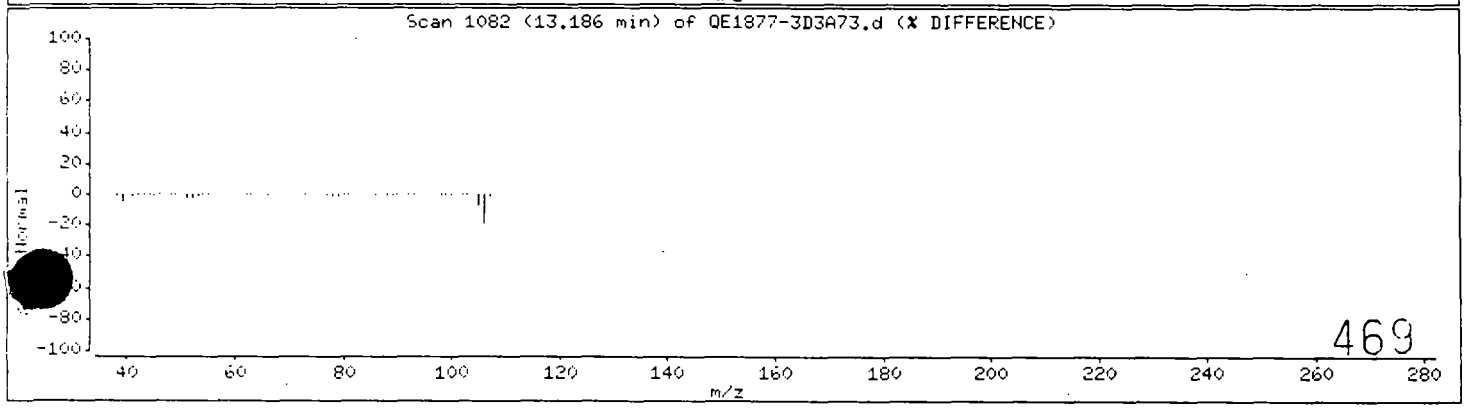
76 m,p-Xylene

Concentration: 29220 ug/L









Data File: /chem/5972hp73.i/DF020308A73.b/QE1877-3D3A73.d

Date : 08-MAR-2002 12:00

Client ID: HW-8ADL

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

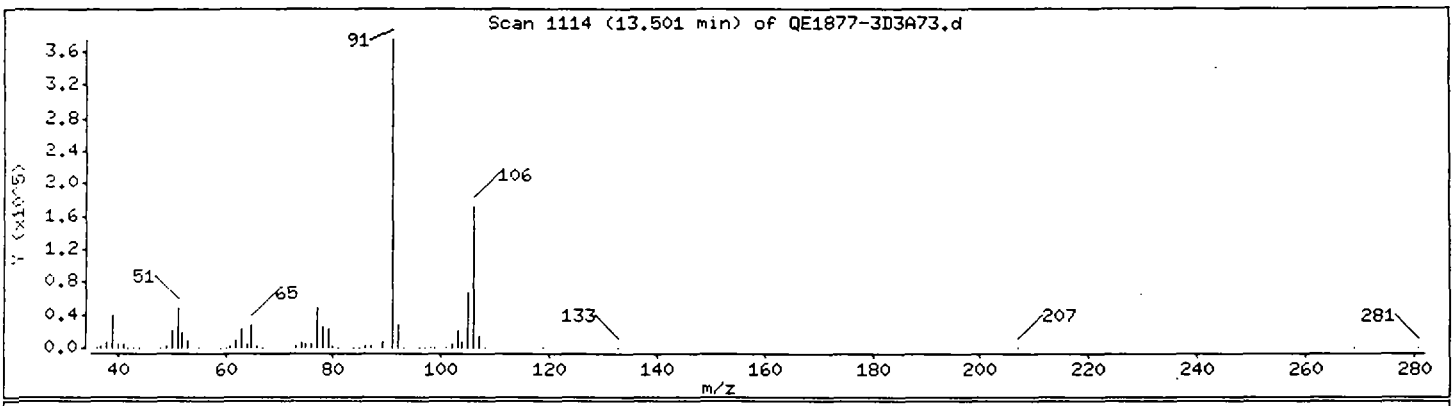
Operator: 2429

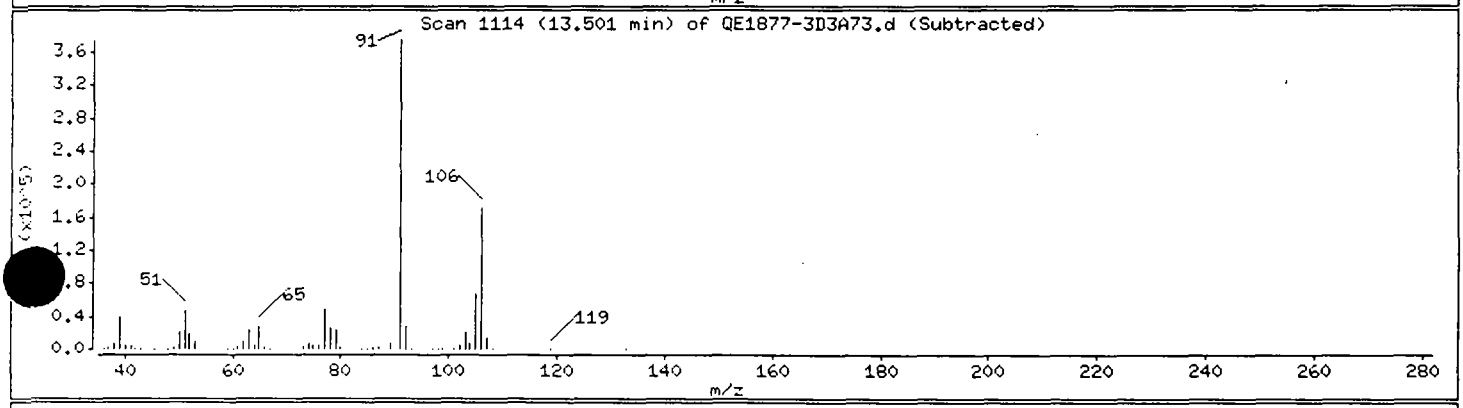
Column phase: ZB-624

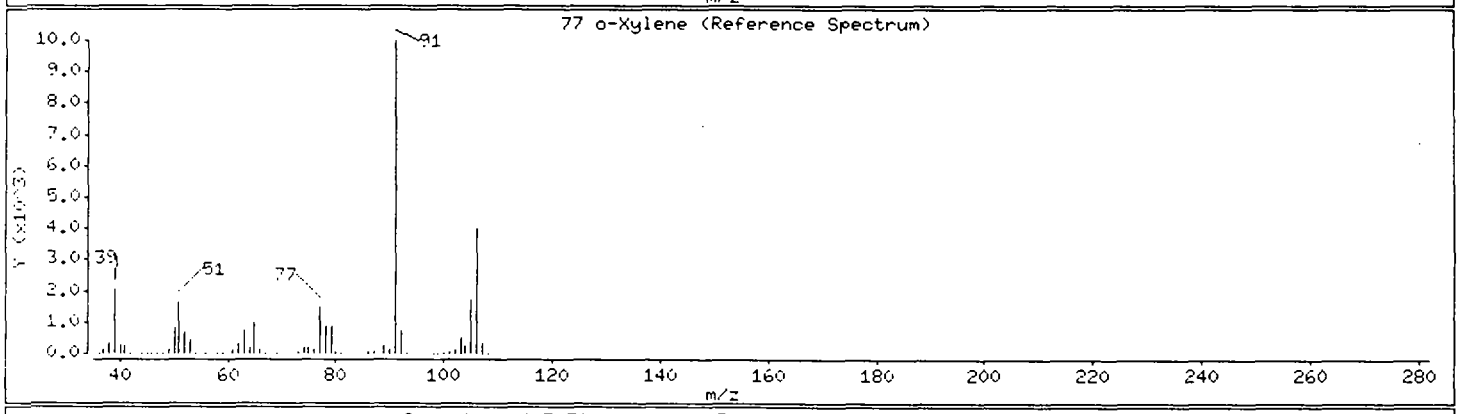
Column diameter: 0.32

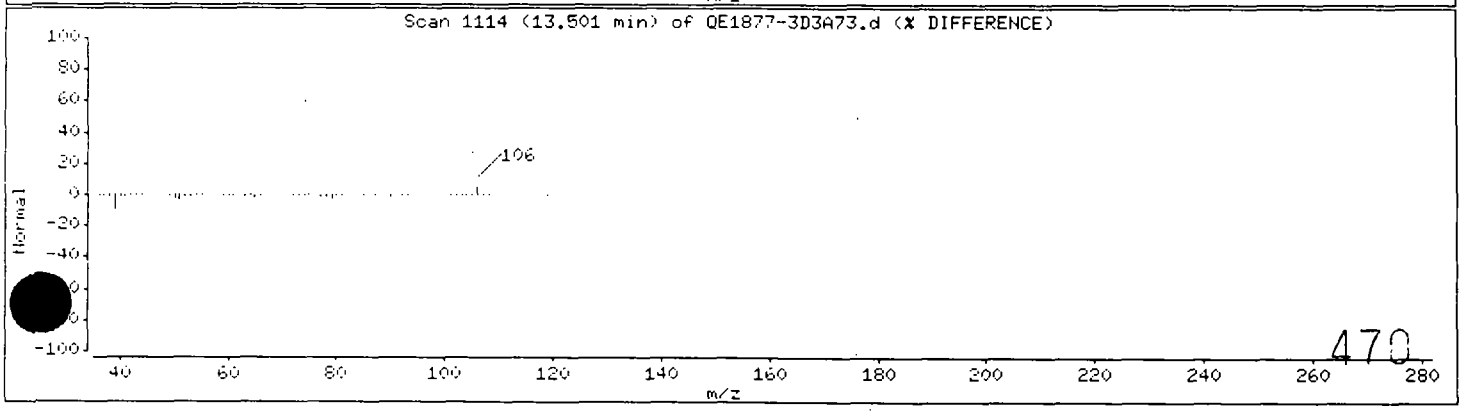
77 o-Xylene

Concentration: 7172 ug/L









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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-9A

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: QE1877-4

Sample wt/vol: 25 (g/ml) ML Lab File ID: QE1877-4RB73

Level: (low/med) LOW Date Received: 03/06/02

% Moisture: not dec. _____ Date Analyzed: 03/08/02

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.2	J
75-35-4	1,1-Dichloroethene	20	
75-15-0	Carbon disulfide	0.5	U
67-64-1	Acetone	1	JB
75-09-2	Methylene Chloride	0.1	J
156-60-5	trans-1,2-Dichloroethene	0.5	U
75-34-3	1,1-Dichloroethane	15	
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-butanone	3	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	10	
56-23-5	Carbon Tetrachloride	0.5	U
71-43-2	Benzene	0.03	J
107-06-2	1,2-Dichloroethane	0.04	J
79-01-6	Trichloroethene	0.3	J
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	3	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.09	J
591-78-6	2-hexanone	3	U
124-48-1	Dibromochloromethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.2	JB
108-38-3	m,p-Xylene	0.7	JB
95-47-6	o-Xylene	0.1	JB
100-42-5	Styrene	0.5	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-9A

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: QE1877-4

Sample wt/vol: 25 (g/ml) ML Lab File ID: QE1877-4RB73

Level: (low/med) LOW Date Received: 03/06/02

% Moisture: not dec. _____ Date Analyzed: 03/08/02

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-25-2	Bromoform	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
1330-20-7	Xylene (total)	0.9	B

Data File: /chem/5972hp73.i/DF020307B73.b/QE1877-4RB73.d
Date : 08-MAR-2002 03:49
Client ID: MW-9A
Sample Info:
Purge Volume: 25.0
Column phase: ZB-624

Instrument: 5972hp73.i

Operator: 2323
Column diameter: 0.32

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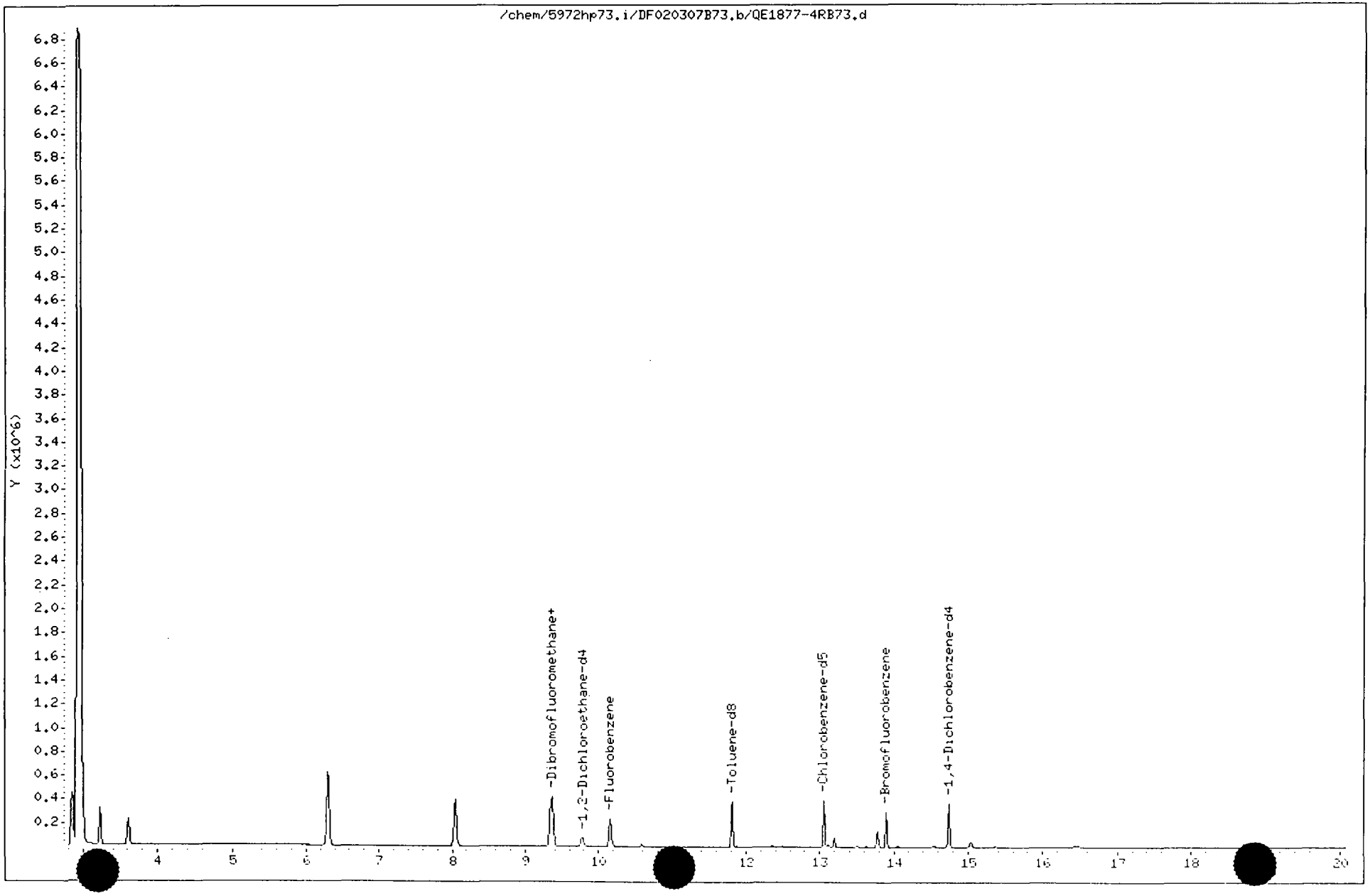

Data File: /chem/5972hp73.i/DF020307B73.b/QE1877-4RB73.d
Report Date: 08-Mar-2002 13:13

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF020307B73.b/QE1877-4RB73.d
Lab Smp Id: QE1877-4 Client Smp ID: MW-9A
Inj Date : 08-MAR-2002 03:49
Operator : 2323 Inst ID: 5972hp73.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp73.i/DF020307B73.b/W8260-B-25MLv6.m
Meth Date : 08-Mar-2002 12:06 hubbard Quant Type: ISTD
Cal Date : 22-FEB-2002 22:50 Cal File: CY020222B73.d
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL3CT.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

d Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	10.168	10.171	(1.000)	249194	125.000	
* 2 Chlorobenzene-d5	117	13.052	13.055	(1.000)	187624	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.735	14.738	(1.000)	91857	125.000	
$ 4 Dibromofluoromethane	113	9.351	9.354	(0.920)	81402	140.849	5.63
$ 5 1,2-Dichloroethane-d4	65	9.784	9.778	(0.962)	63165	128.706	5.15
$ 6 Toluene-d8	98	11.812	11.815	(0.905)	245785	130.612	5.22
$ 7 Bromofluorobenzene	95	13.898	13.902	(0.943)	88909	133.899	5.36
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	4.883	4.896	(0.480)	1328	3.94565	0.158(a)
16 1,1-Dichloroethene	96	6.300	6.303	(0.620)	328713	490.734	19.63
21 Carbon disulfide	76	Compound Not Detected.					
18 Acetone	43	6.448	6.431	(0.634)	3040	29.6858	1.19(a)
24 Methylene Chloride	84	7.087	7.091	(0.697)	1535	2.39569	0.0958(a)
27 trans-1,2-Dichloroethene	96	Compound Not Detected.					

SAH 3/8/02

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Data File: /chem/5972hp73.i/DF020307B73.b/QE1877-4RB73.d
Report Date: 08-Mar-2002 13:13

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
30 1,1-Dichloroethane	63	8.042	8.045	(0.791)	500039	380.445	15.22
34 cis-1,2-Dichloroethene	96	Compound Not Detected.					
37 2-butanone	43	Compound Not Detected.					
42 Chloroform	83	Compound Not Detected.					
43 1,1,1-Trichloroethane	97	9.361	9.364	(0.921)	289316	238.921	9.56
48 Carbon Tetrachloride	117	Compound Not Detected.					
51 Benzene	78	9.833	9.837	(0.967)	2363	0.86444	0.0346(a)
49 1,2-Dichloroethane	62	9.873	9.876	(0.971)	747	1.05749	0.0423(a)
53 Trichloroethene	130	10.591	10.594	(1.042)	6369	8.24116	0.330(a)
55 1,2-Dichloropropane	63	Compound Not Detected.					
59 Bromodichloromethane	83	Compound Not Detected.					
61 cis-1,3-Dichloropropene	75	Compound Not Detected.					
62 4-Methyl-2-pentanone	43	Compound Not Detected.					
63 Toluene	92	Compound Not Detected.					
64 trans-1,3-Dichloropropene	75	Compound Not Detected.					
65 1,1,2-Trichloroethane	97	Compound Not Detected.					
68 Tetrachloroethene	164	12.363	12.366	(0.947)	1463	2.36478	0.0946(a)
69 2-hexanone	43	Compound Not Detected.					
70 Dibromochloromethane	129	Compound Not Detected.					
72 Chlorobenzene	112	Compound Not Detected.					
75 Ethylbenzene	106	13.111	13.114	(1.005)	3646	4.14093	0.166(a)
76 m,p-Xylene	106	13.190	13.193	(1.011)	18760	17.1322	0.685(a)
77 o-Xylene	106	13.505	13.498	(1.035)	3289	3.21115	0.128(a)
78 Styrene	104	Compound Not Detected.					
79 Bromoform	173	Compound Not Detected.					
1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
M-107 Xylene (total)	106				22049	21.5271	0.861

QC Flag Legend

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

Data File: /chem/5972hp73.i/DF020307B73.b/QE1877-4RB73.d

Date : 08-MAR-2002 03:49

Client ID: MW-9A

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

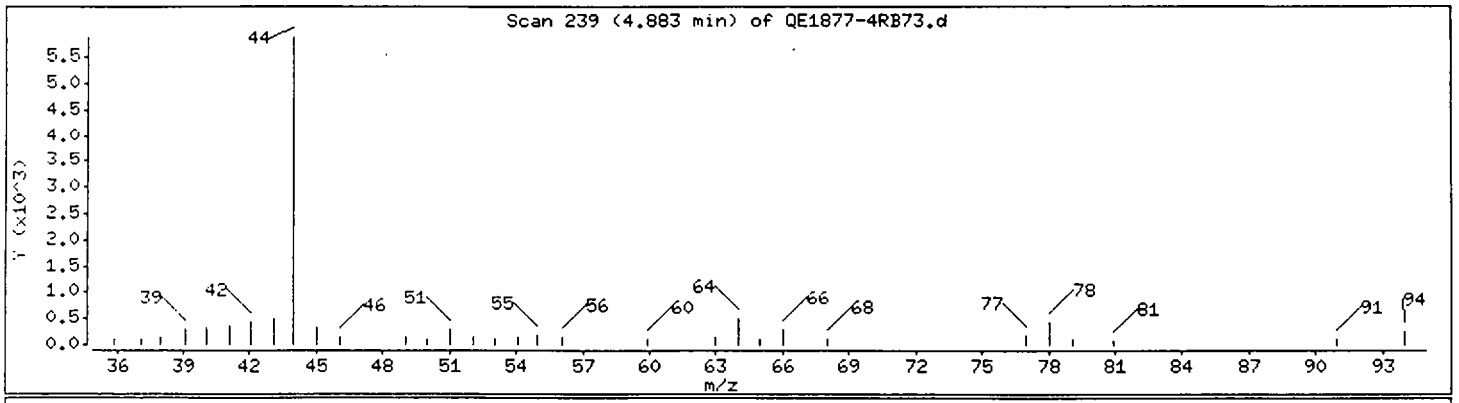
Operator: 2323

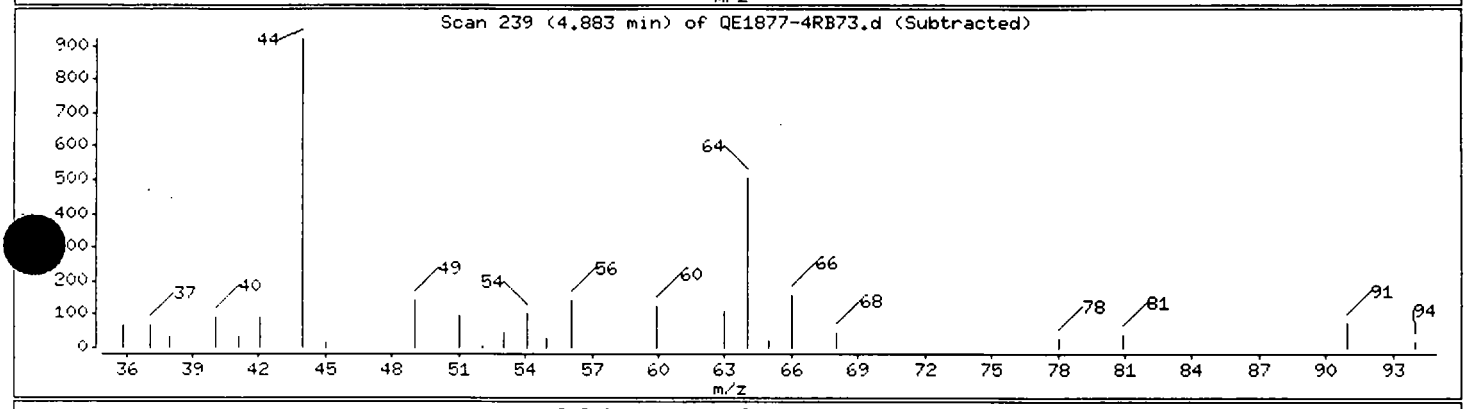
Column phase: ZB-624

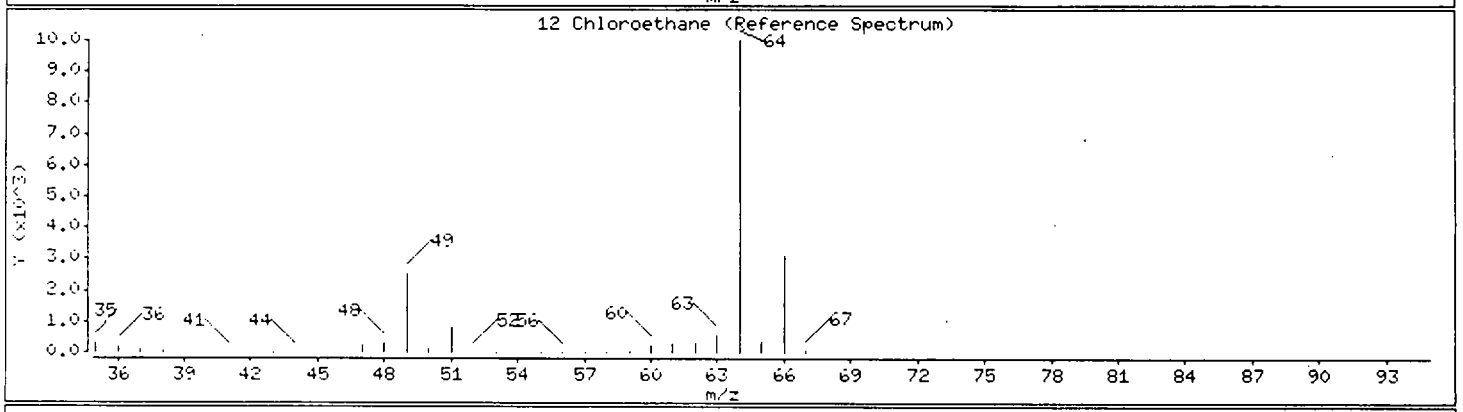
Column diameter: 0.32

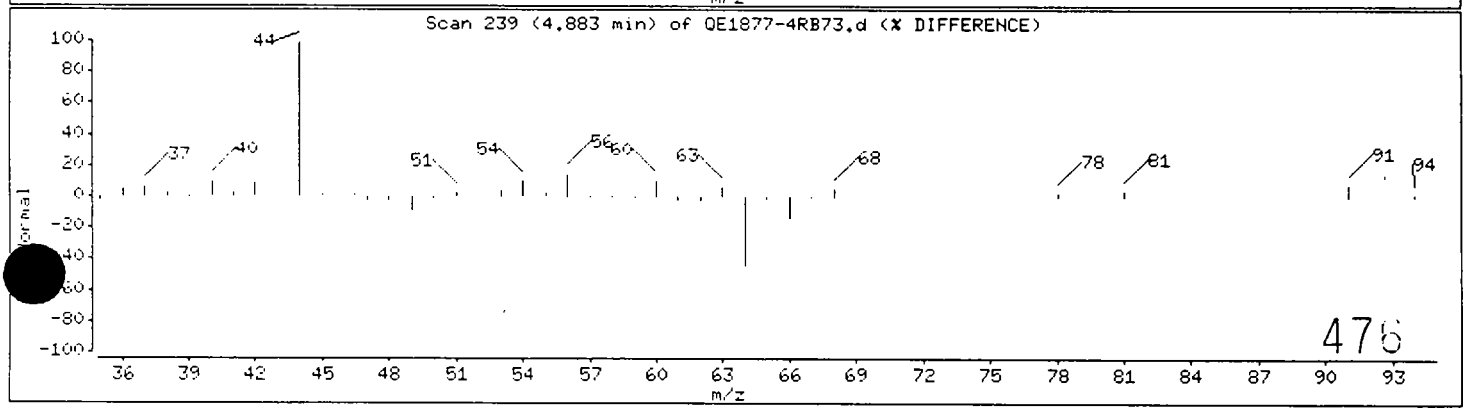
12 Chloroethane

Concentration: 0.158 ug/L









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Data File: /chem/5972hp73.i/DF020307B73.b/QE1877-4RB73.d

Date : 08-MAR-2002 03:49

Client ID: MW-9A

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

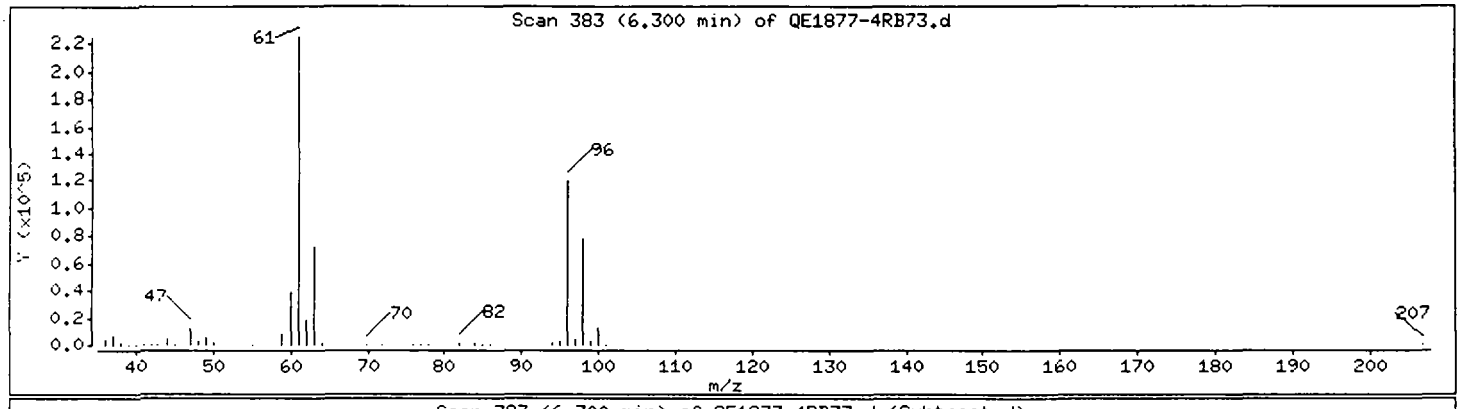
Operator: 2323

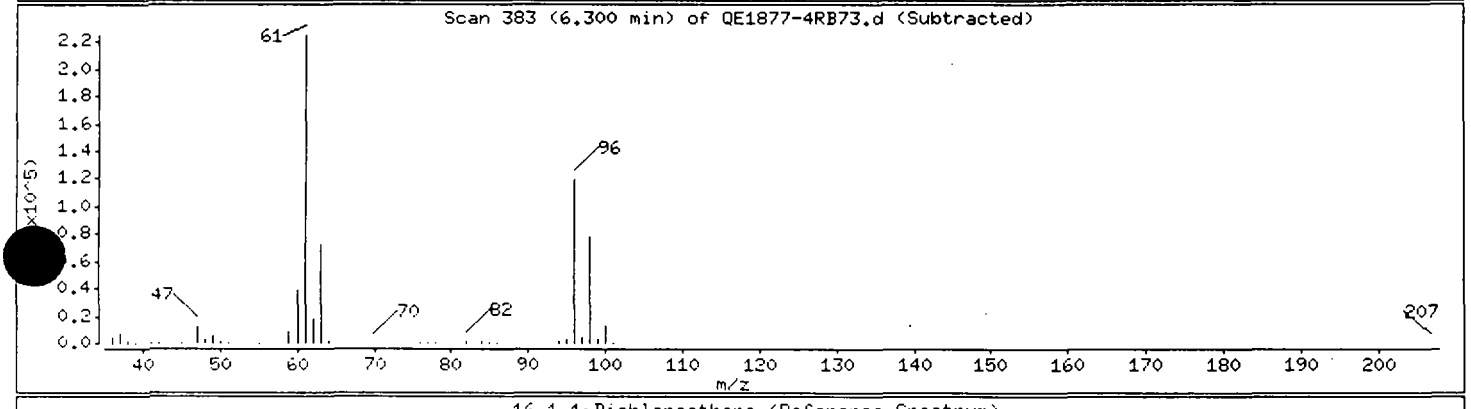
Column phase: ZB-624

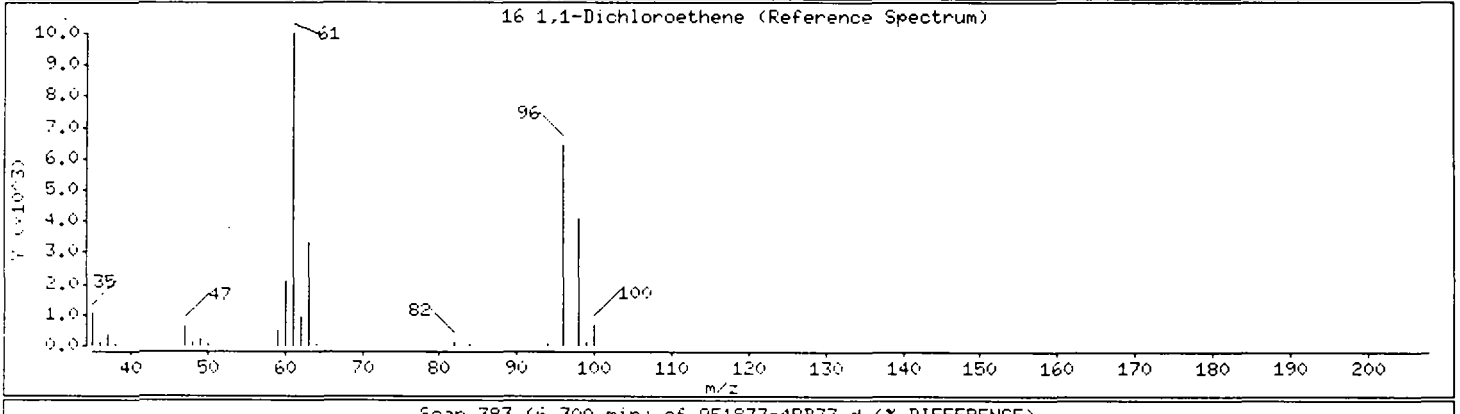
Column diameter: 0.32

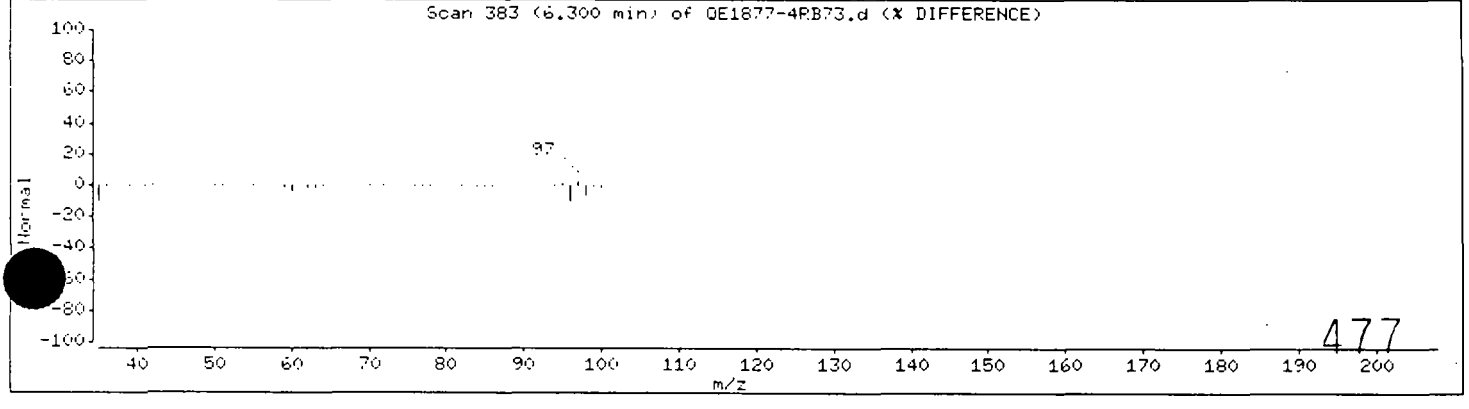
16 1,1-Dichloroethene

Concentration: 19.63 ug/L









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Data File: /chem/5972hp73.i/DF020307B73.b/QE1877-4RB73.d

Date : 08-MAR-2002 03:49

Client ID: MW-9A

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

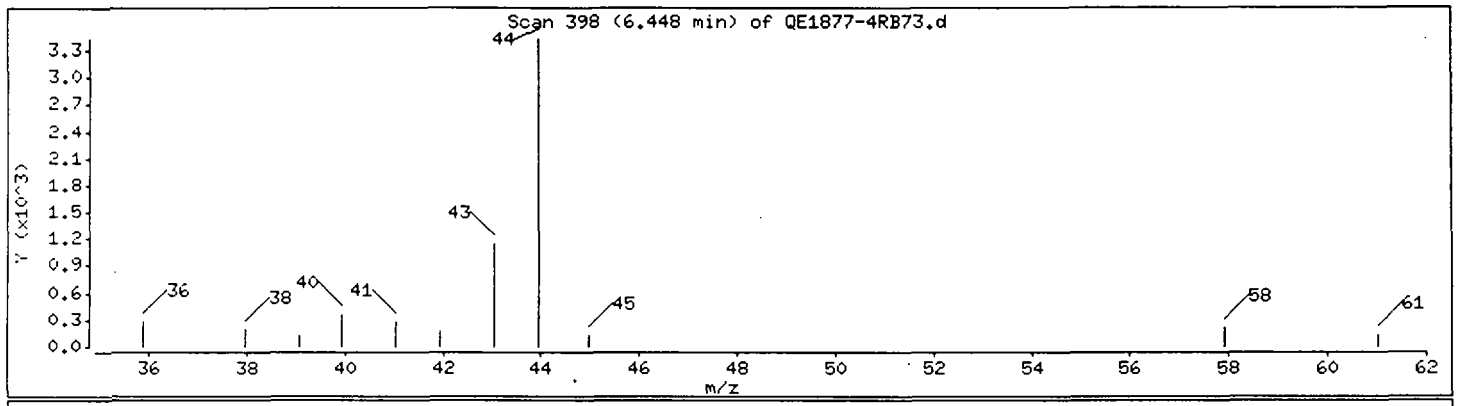
Operator: 2323

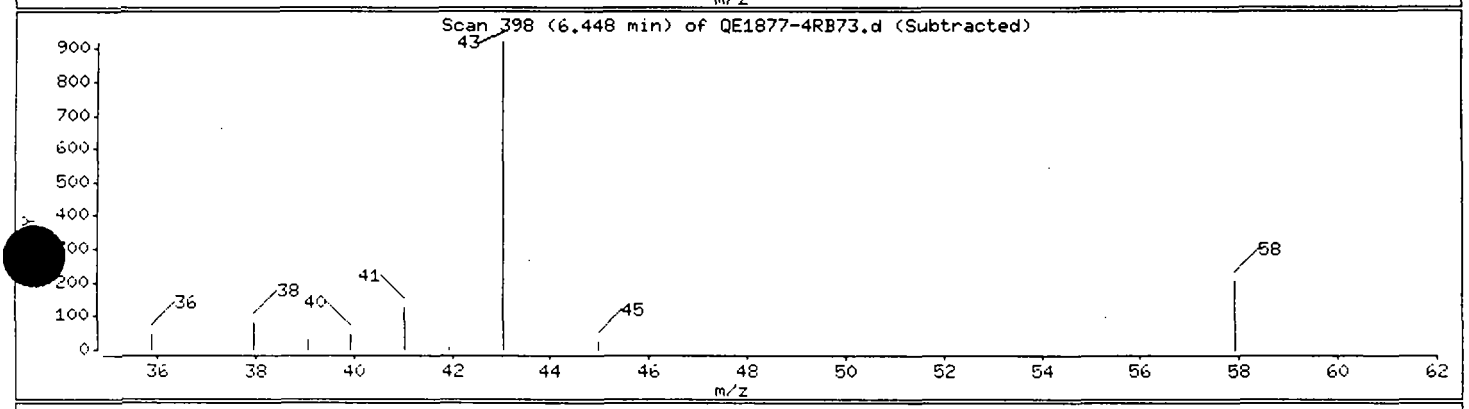
Column phase: ZB-624

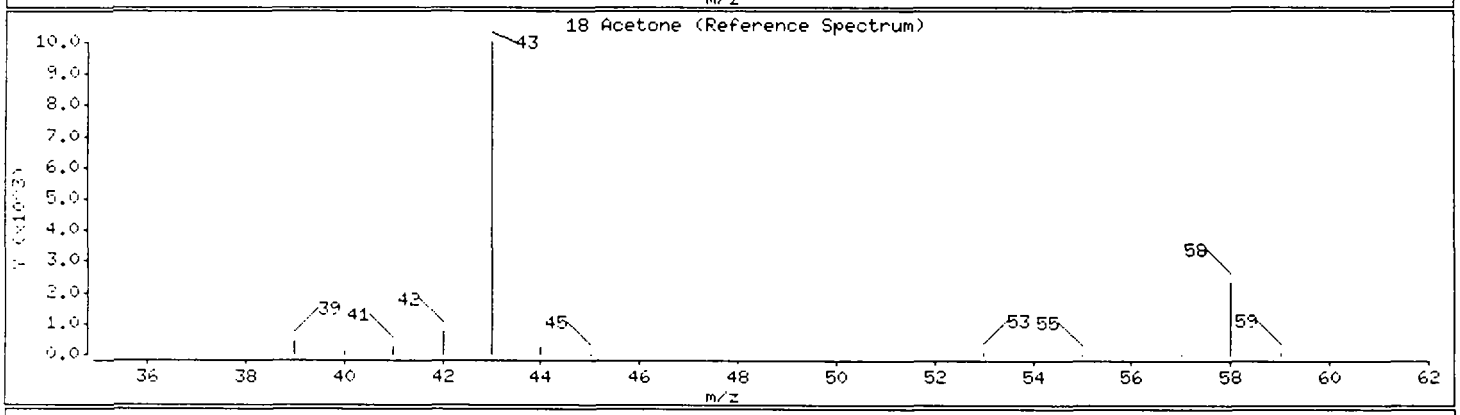
Column diameter: 0.32

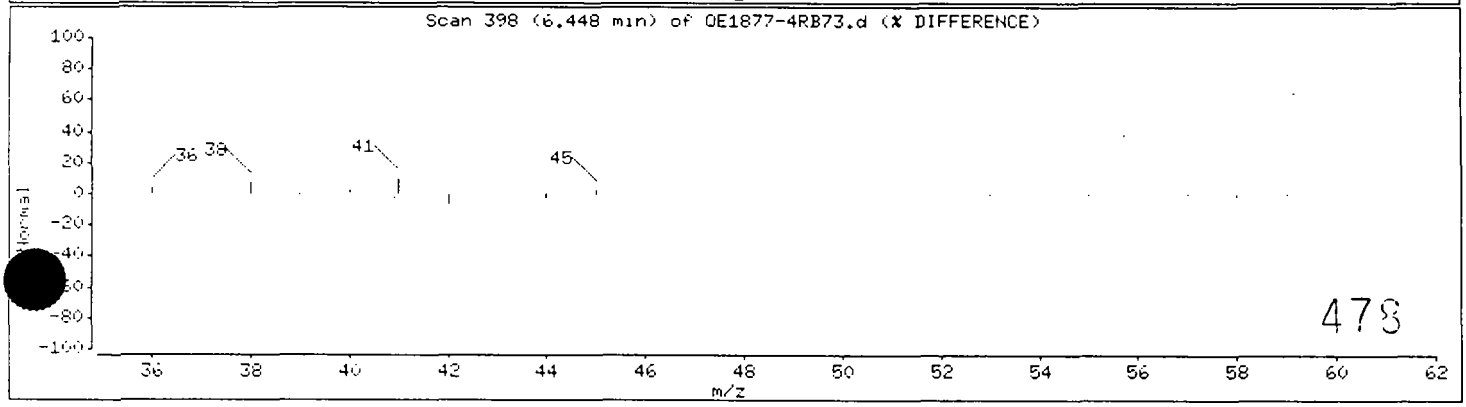
18 Acetone

Concentration: 1.19 ug/L









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Data File: /chem/5972hp73.i/DF020307B73.b/QE1877-4RB73.d

Date : 08-MAR-2002 03:49

Client ID: MW-9A

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

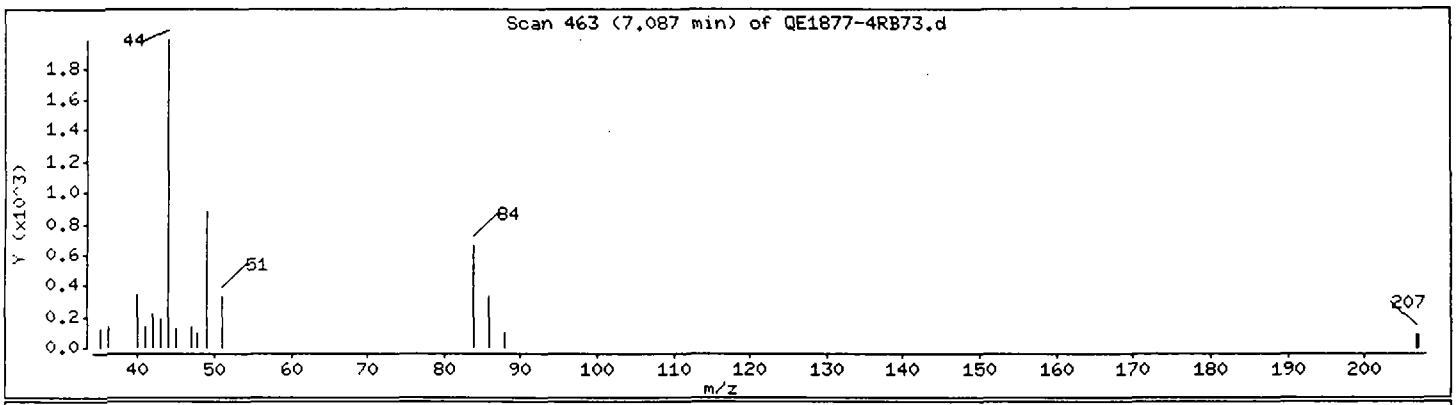
Operator: 2323

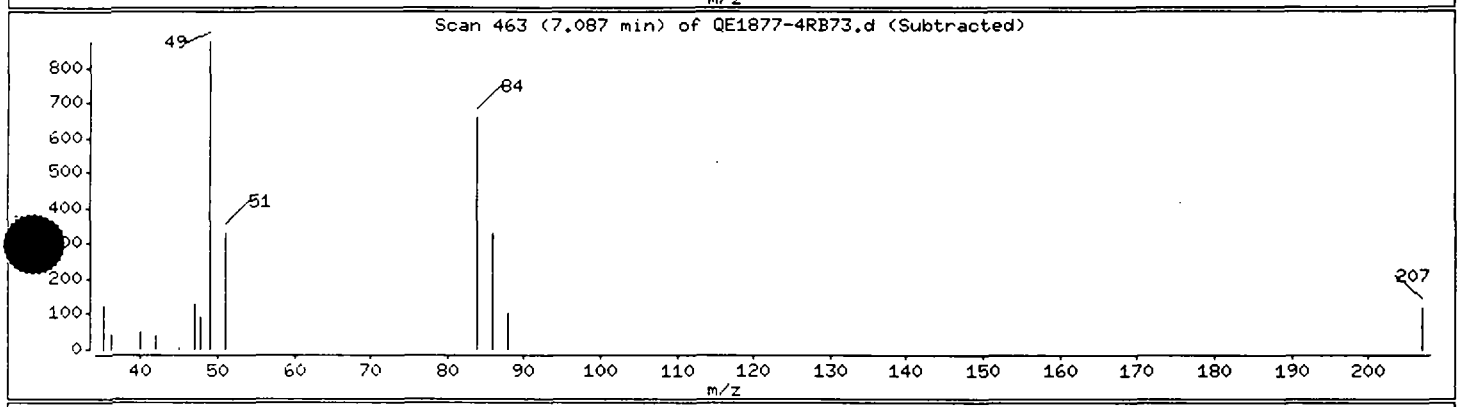
Column phase: ZB-624

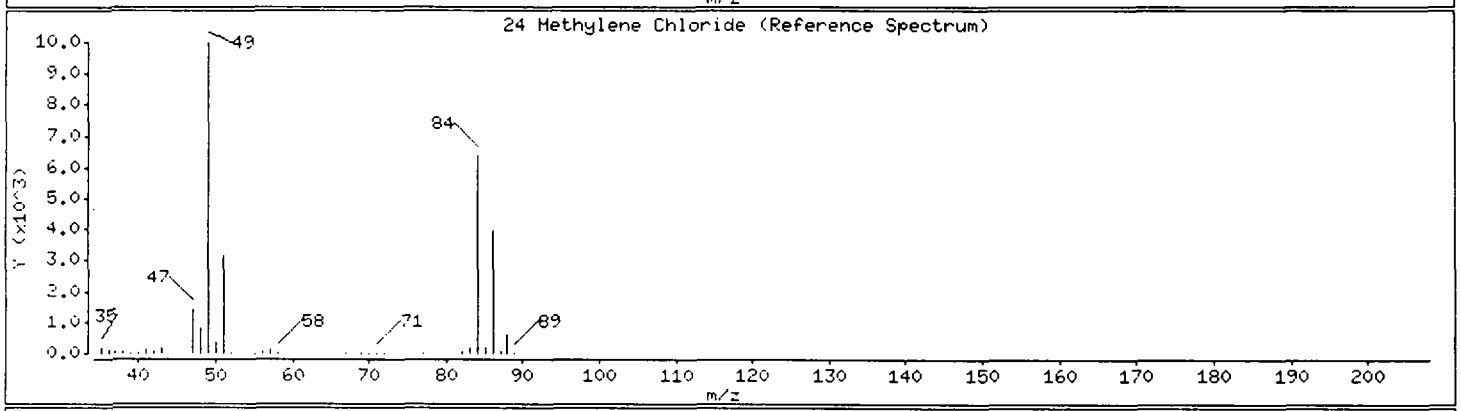
Column diameter: 0.32

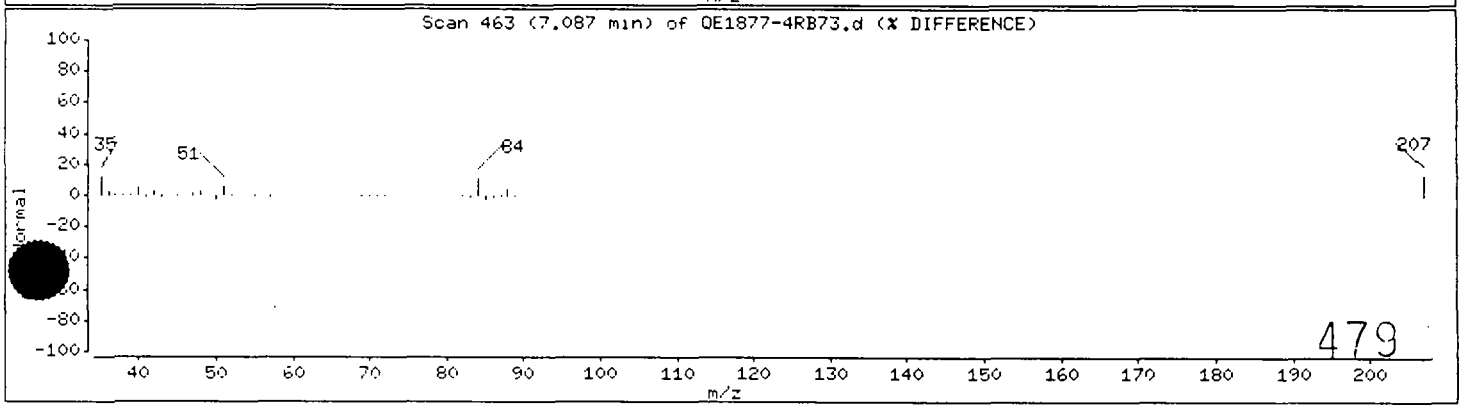
24 Methylene Chloride

Concentration: 0.0958 ug/L









Data File: /chem/5972hp73.i/DF020307B73.b/QE1877-4RB73.d

Date : 08-MAR-2002 03:49

Client ID: MW-9A

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

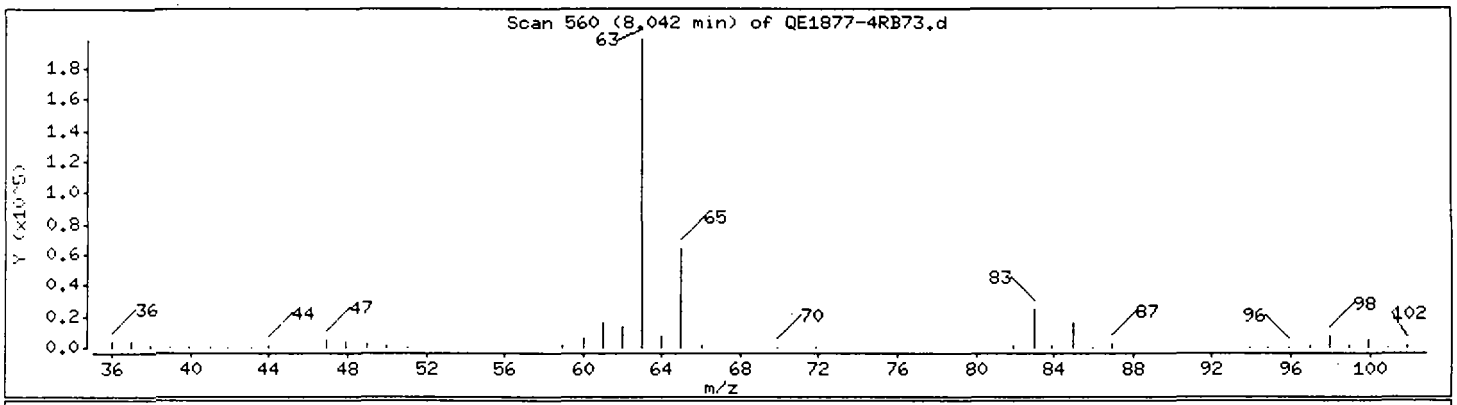
Operator: 2323

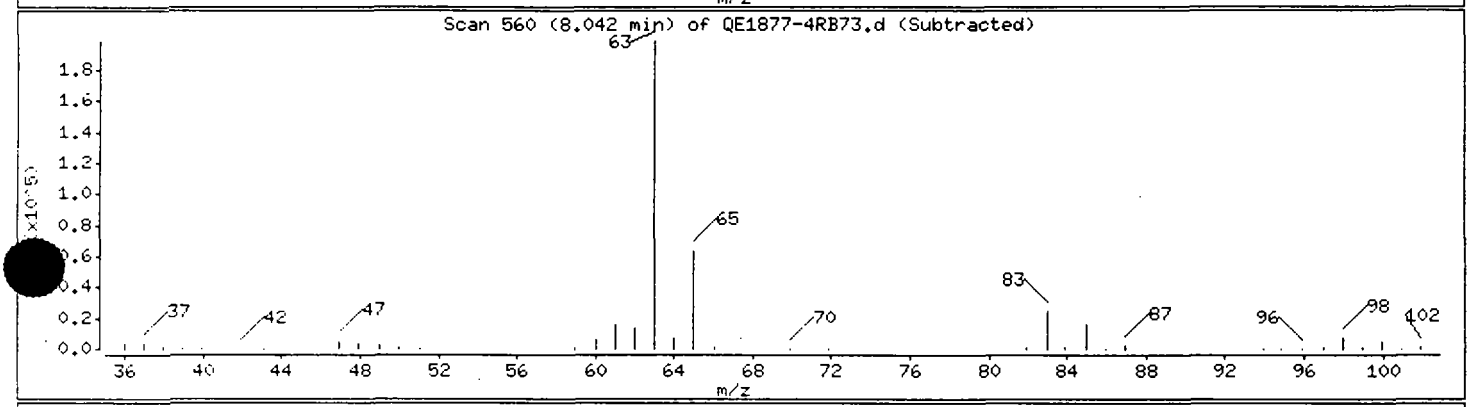
Column phase: ZB-624

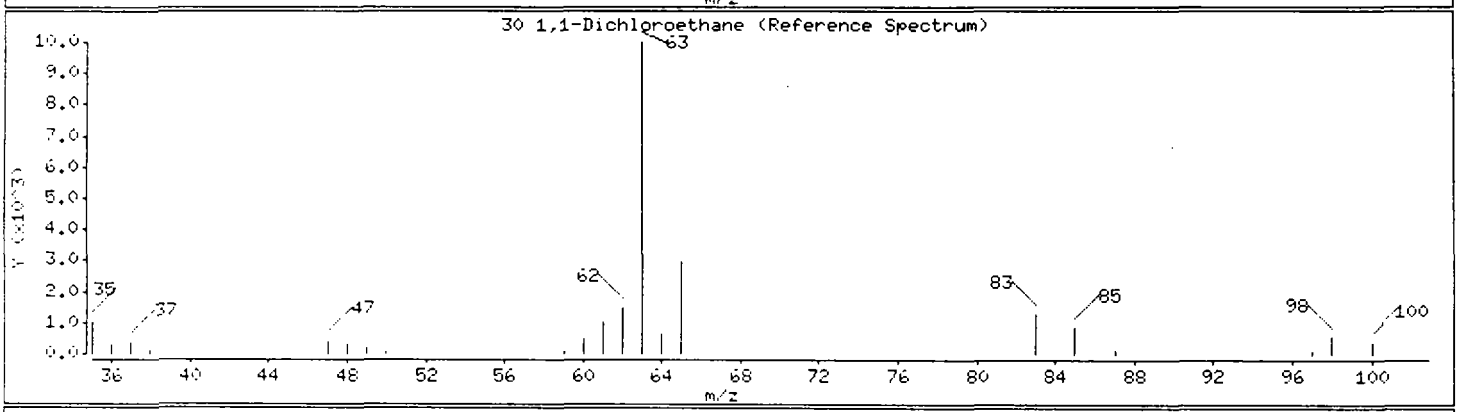
Column diameter: 0.32

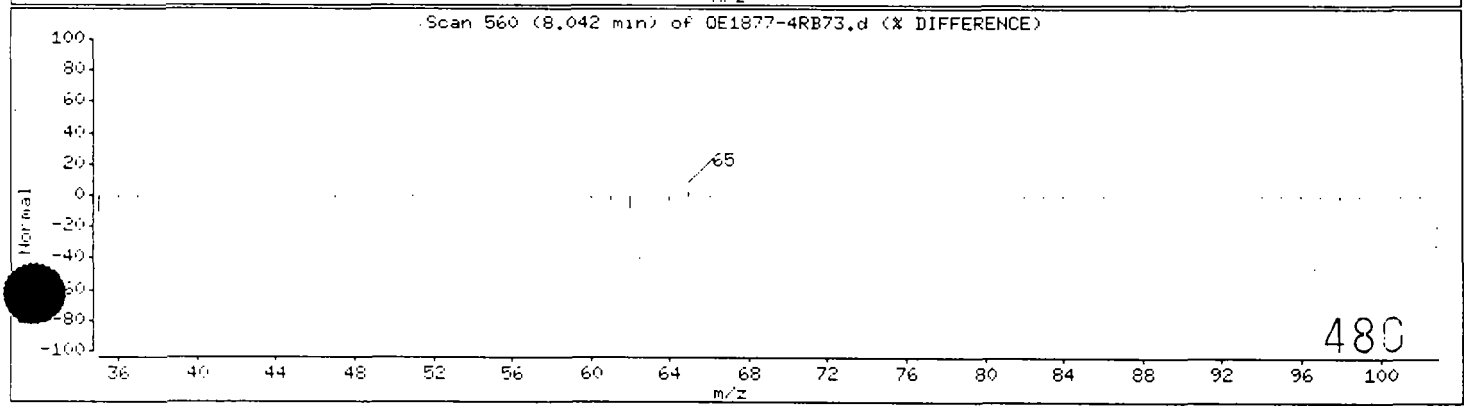
30 1,1-Dichloroethane

Concentration: 15.22 ug/L









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Data File: /chem/5972hp73.i/DF020307B73.b/QE1877-4RB73.d

Date : 08-MAR-2002 03:49

Client ID: MW-9A

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

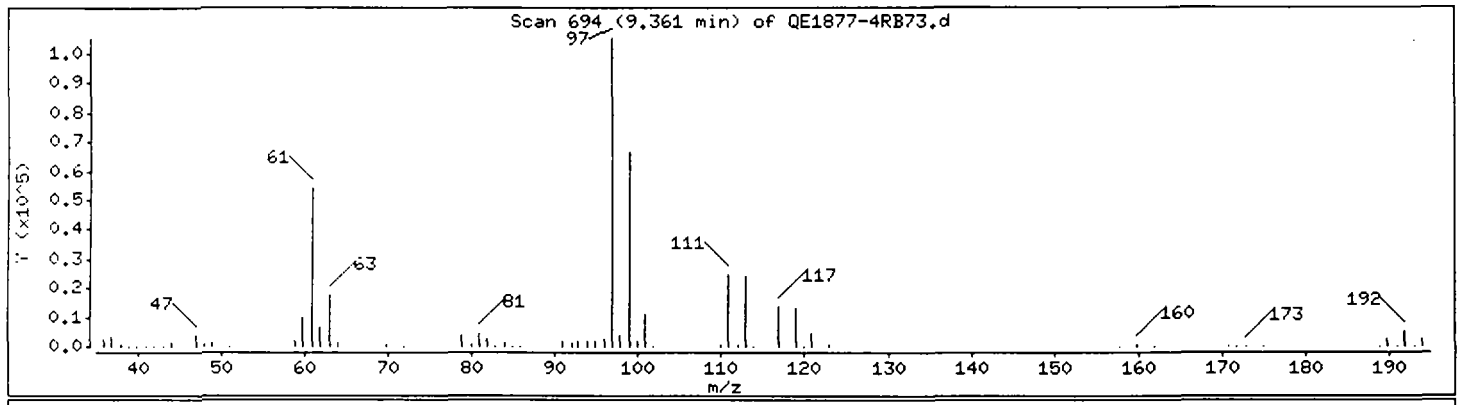
Operator: 2323

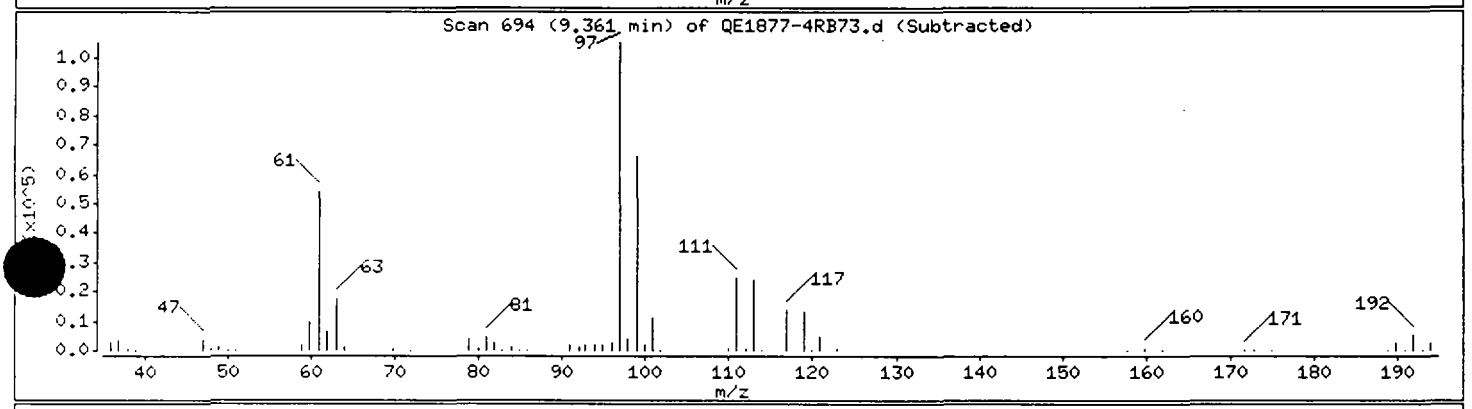
Column phase: ZB-624

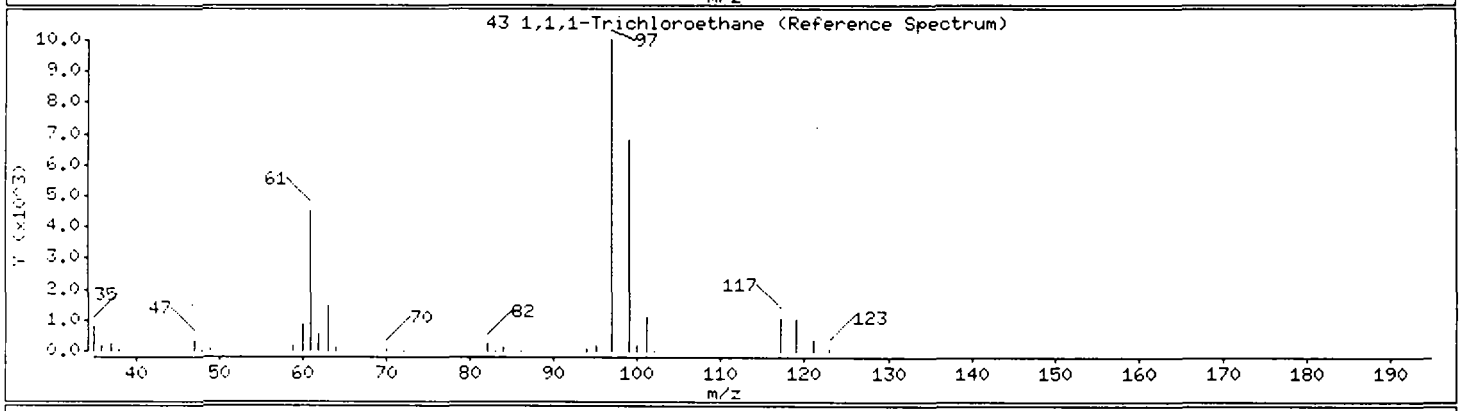
Column diameter: 0.32

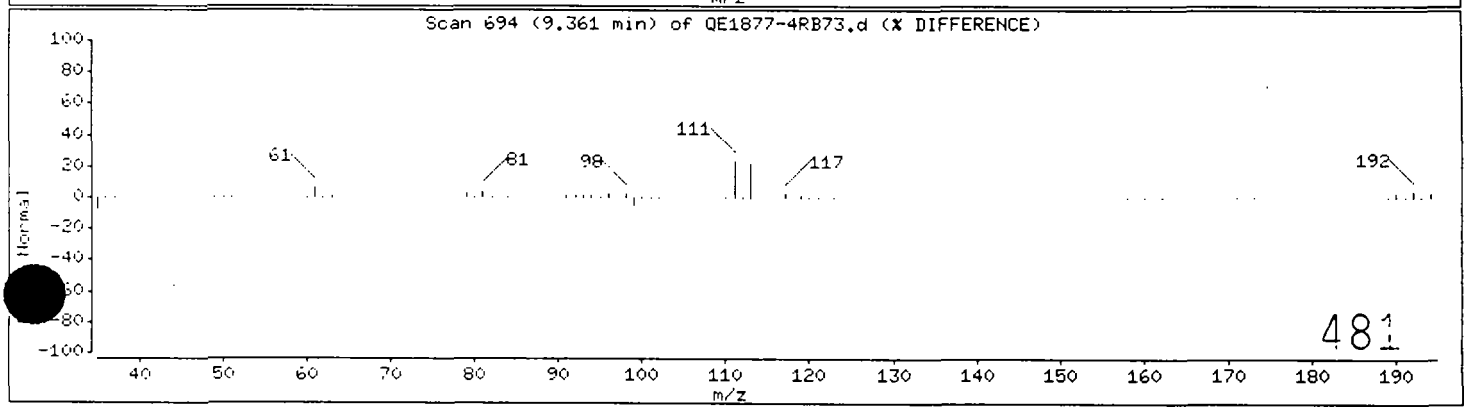
43 1,1,1-Trichloroethane

Concentration: 9.56 ug/L









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Data File: /chem/5972hp73.i/DF020307B73.b/QE1877-4RB73.d

Date : 08-MAR-2002 03:49

Client ID: MW-9A

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

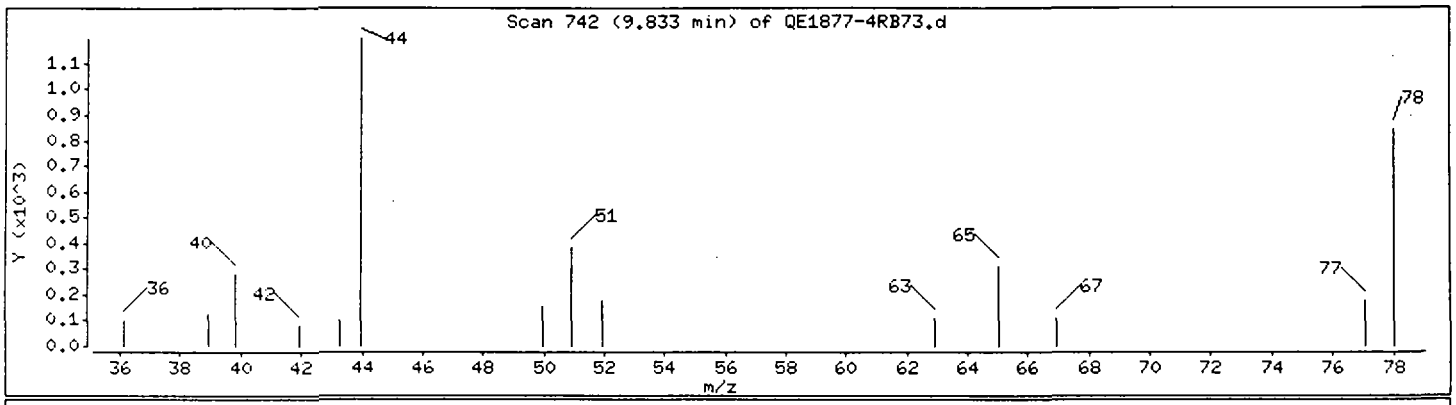
Operator: 2323

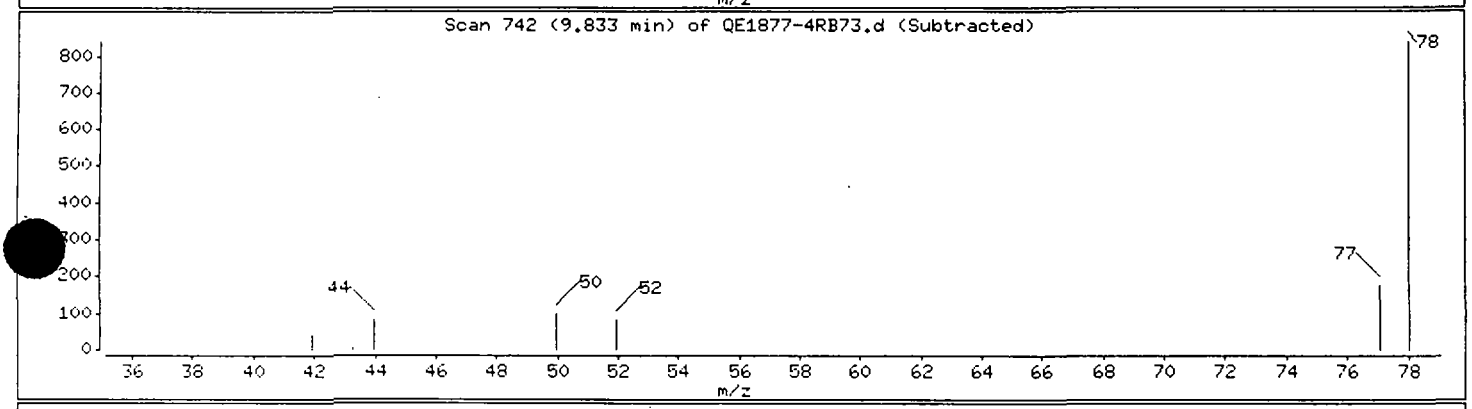
Column phase: ZB-624

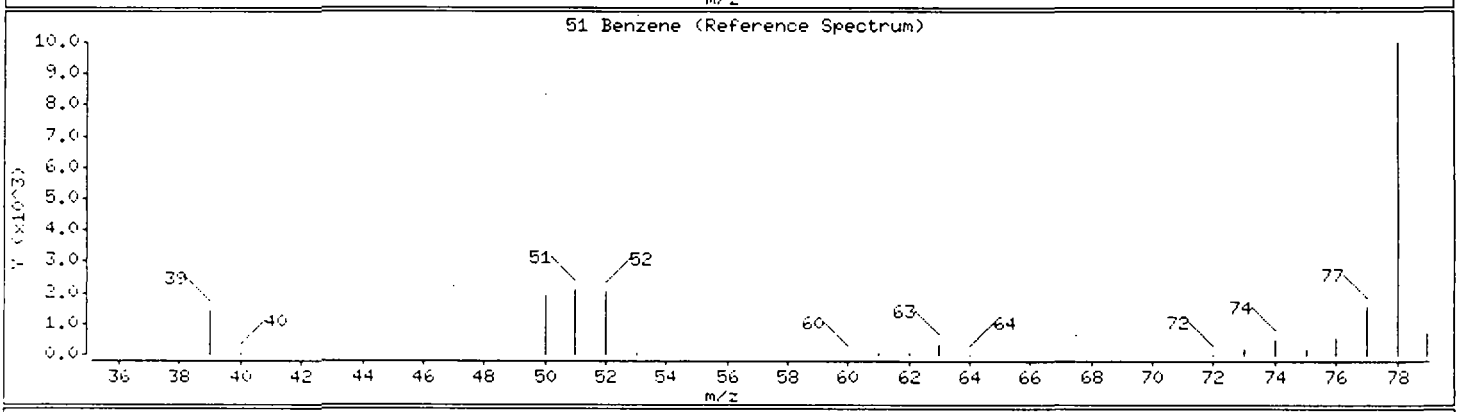
Column diameter: 0.32

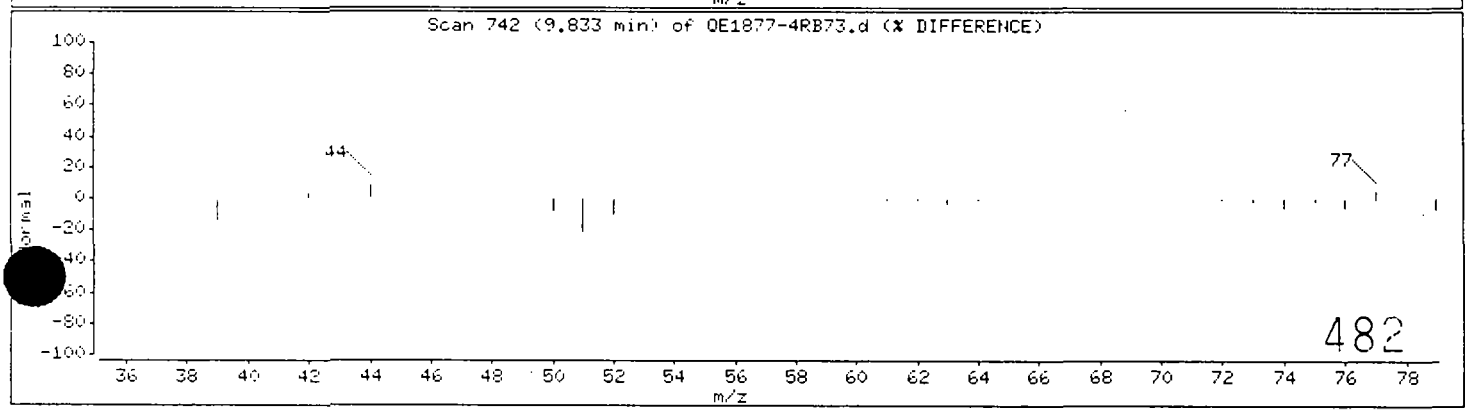
51 Benzene

Concentration: 0.0346 ug/L









482

Data File: /chem/5972hp73.i/DF020307B73.b/QE1877-4RB73.d

Date : 08-MAR-2002 03:49

Client ID: MW-9A

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

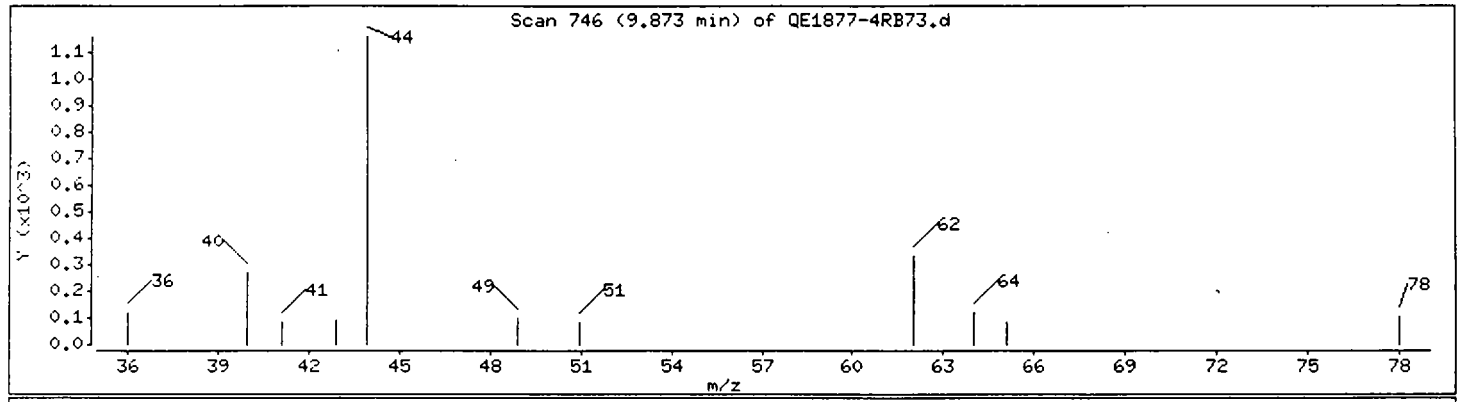
Operator: 2323

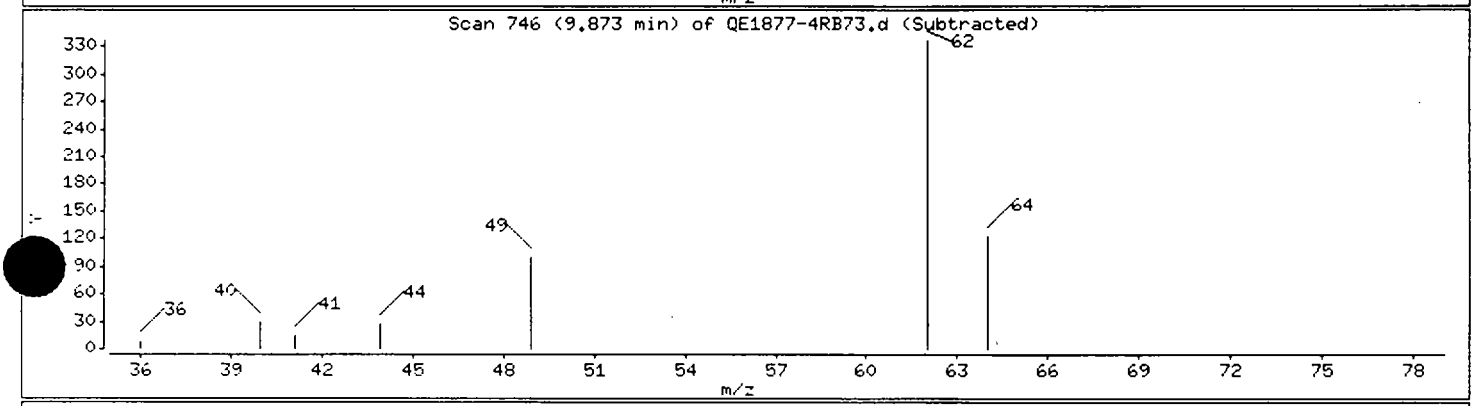
Column phase: ZB-624

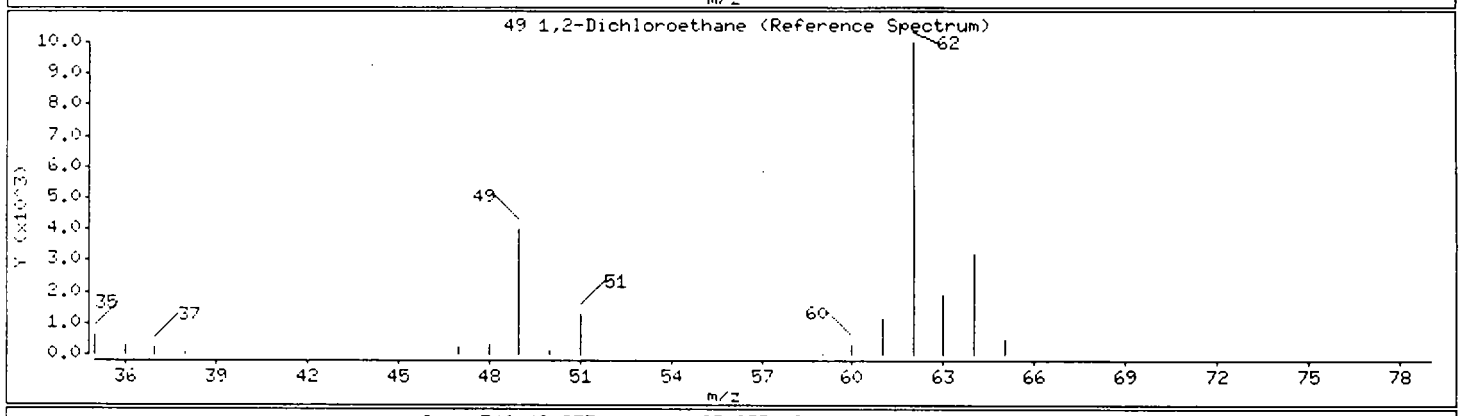
Column diameter: 0.32

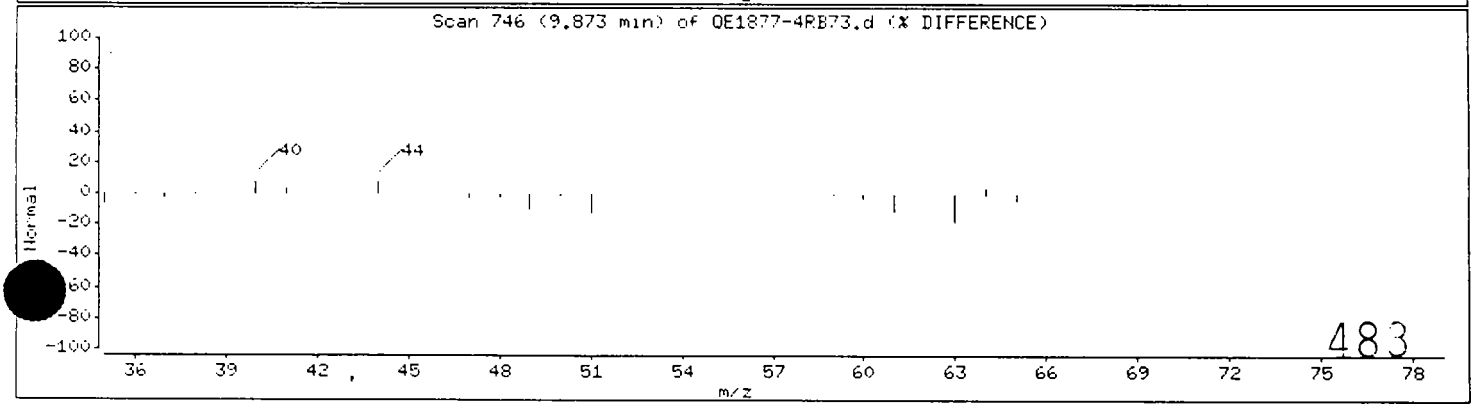
49 1,2-Dichloroethane

Concentration: 0.0423 ug/L









Data File: /chem/5972hp73.i/DF020307B73.b/QE1877-4RB73.d

Date : 08-MAR-2002 03:49

Client ID: MW-9A

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

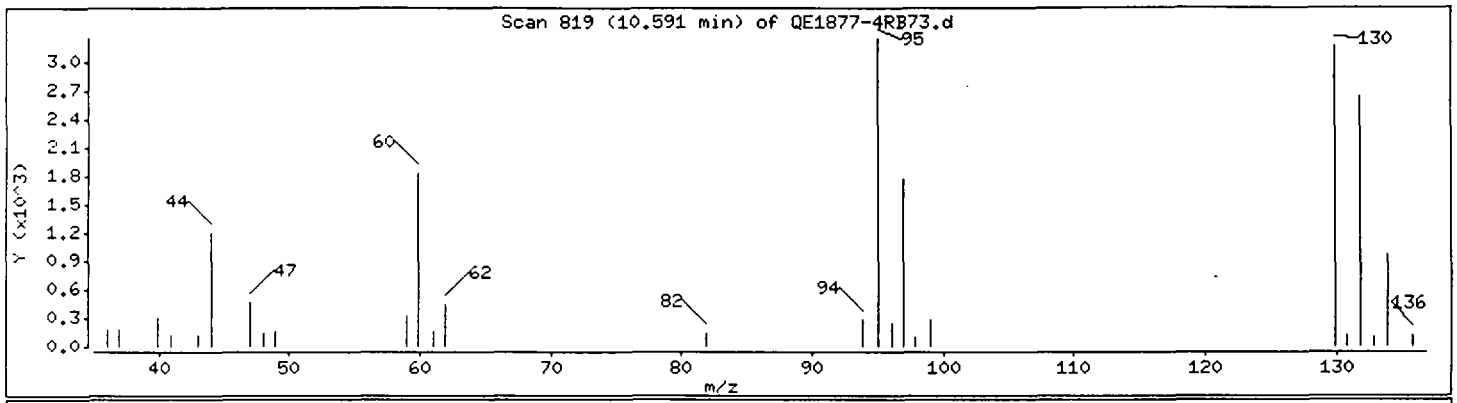
Operator: 2323

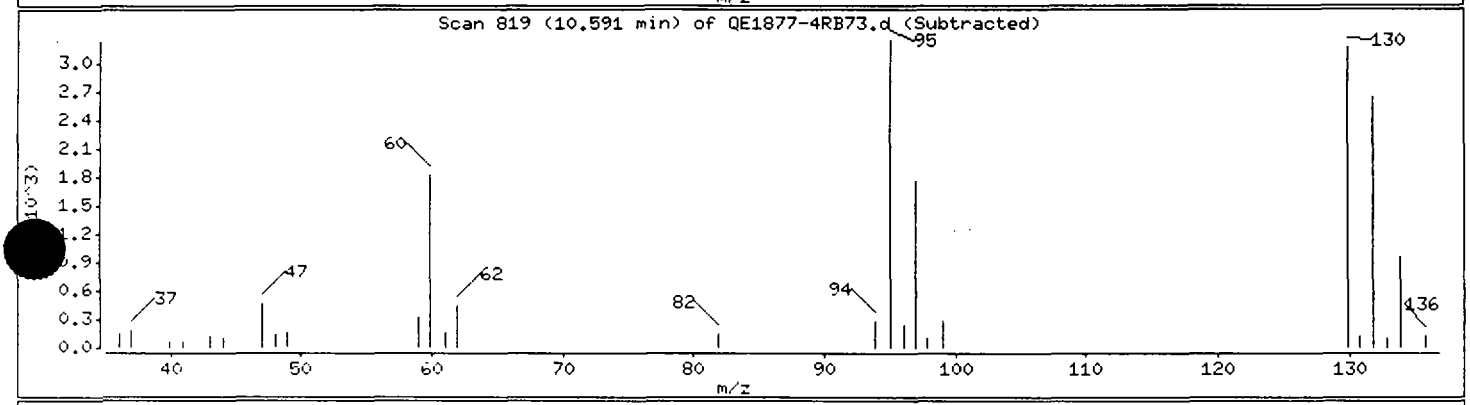
Column phase: ZB-624

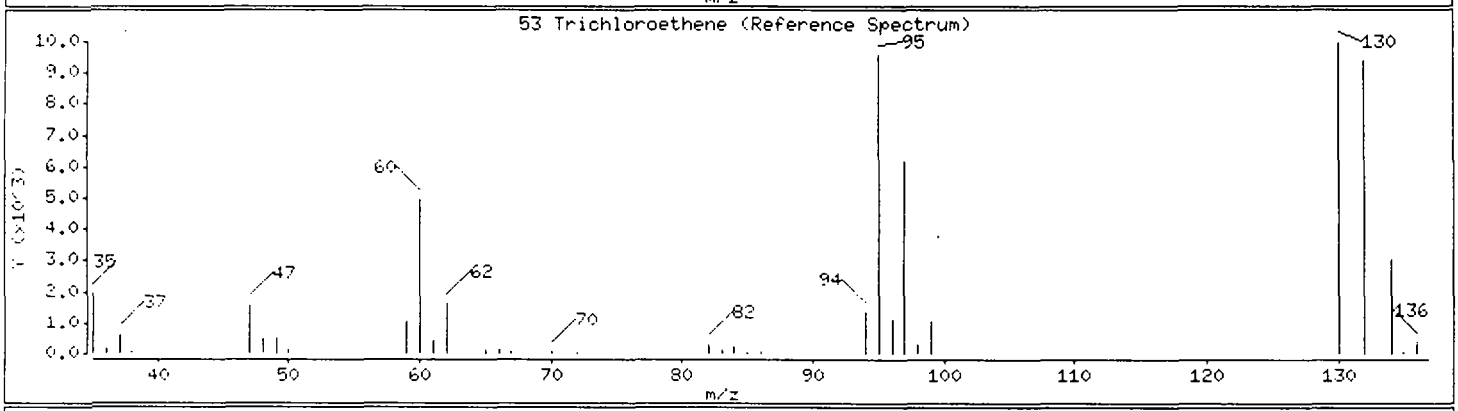
Column diameter: 0.32

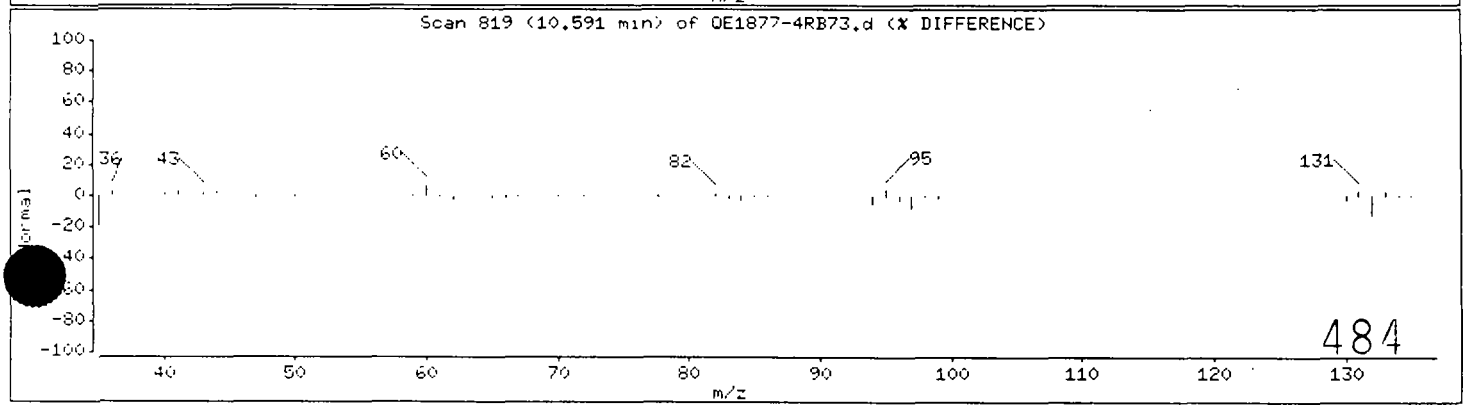
53 Trichloroethene

Concentration: 0.330 ug/L









484

Data File: /chem/5972hp73.i/DF020307B73.b/QE1877-4RB73.d

Date : 08-MAR-2002 03:49

Client ID: MW-9A

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

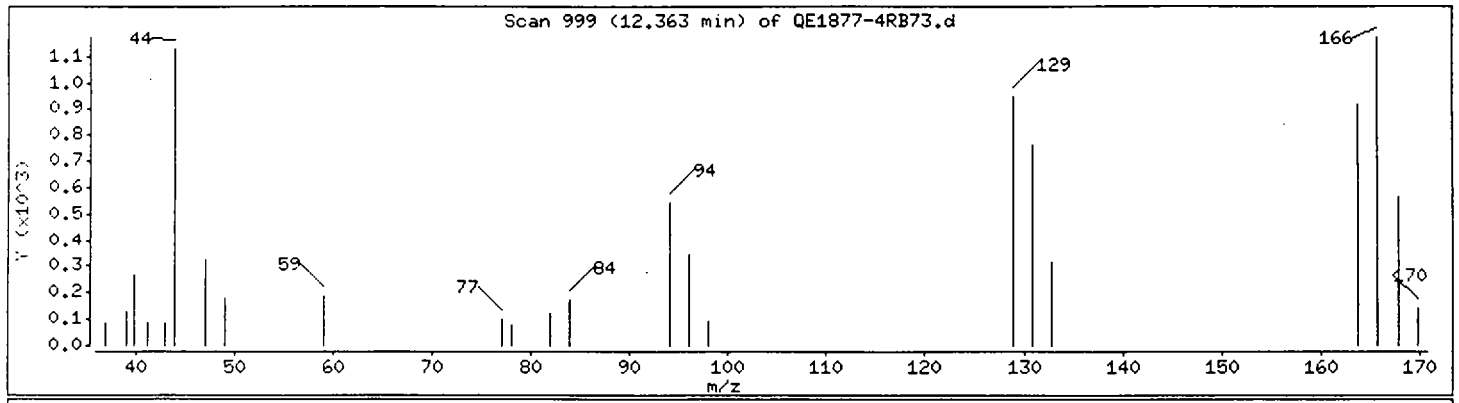
Operator: 2323

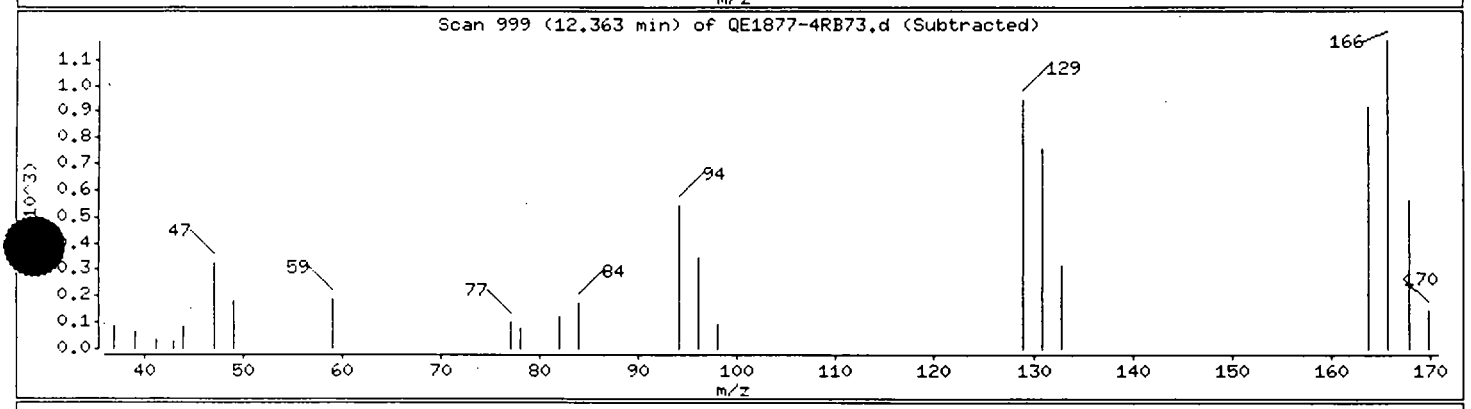
Column phase: ZB-624

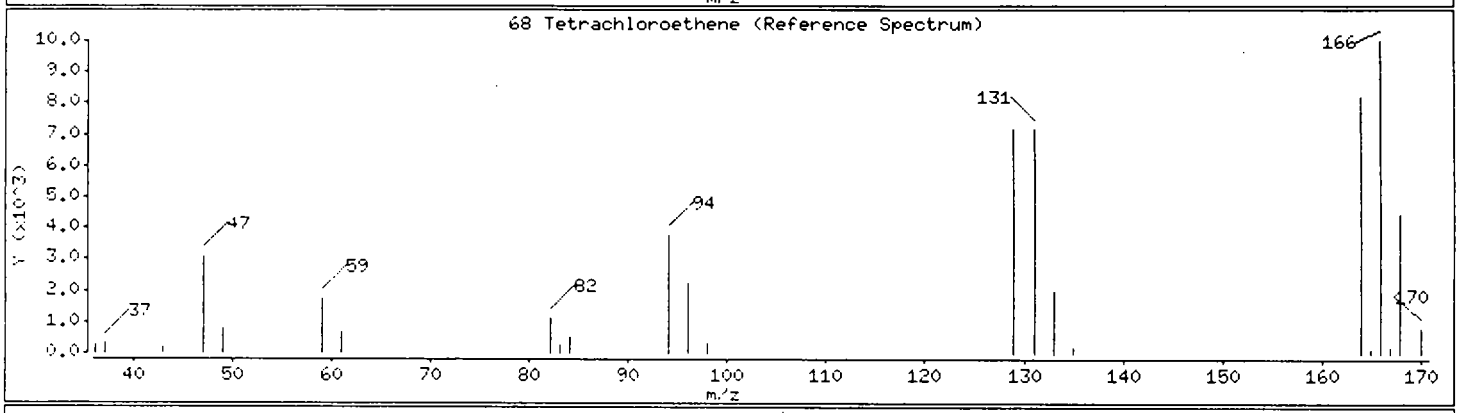
Column diameter: 0.32

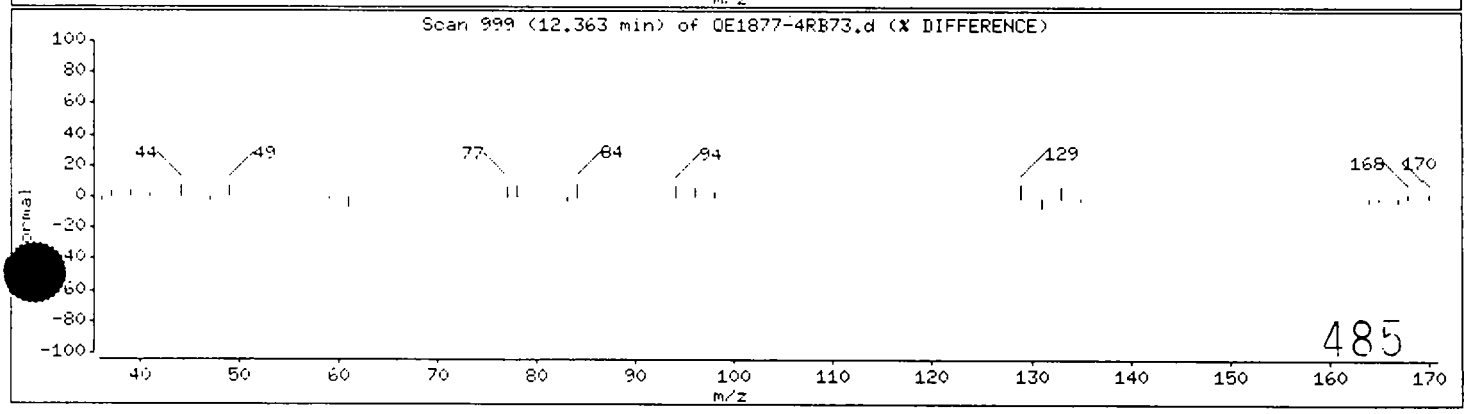
68 Tetrachloroethene

Concentration: 0.0946 ug/L









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Data File: /chem/5972hp73.i/DF020307B73.b/QE1877-4RB73.d

Date : 08-MAR-2002 03:49

Client ID: MW-9A

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

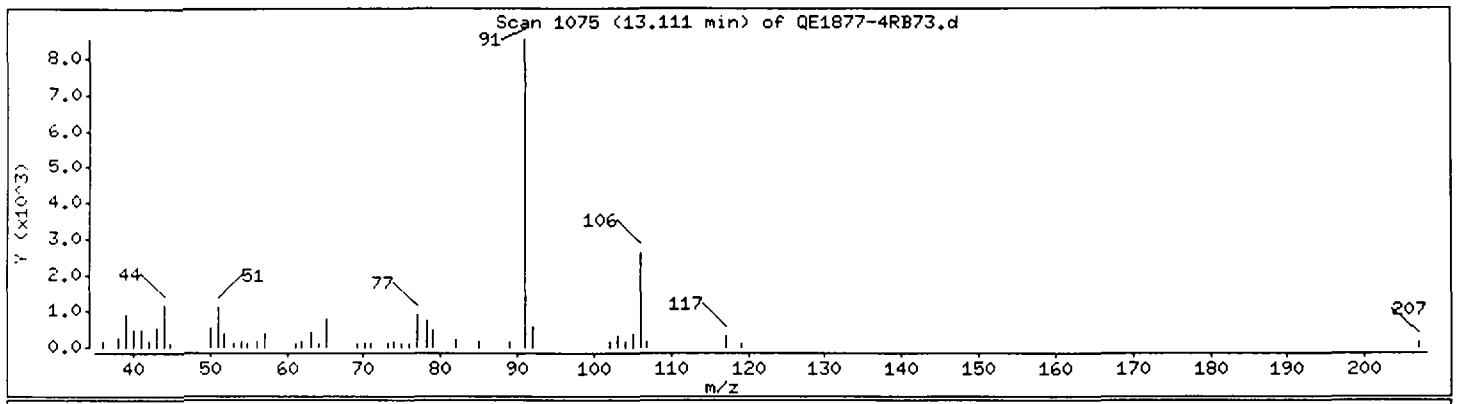
Operator: 2323

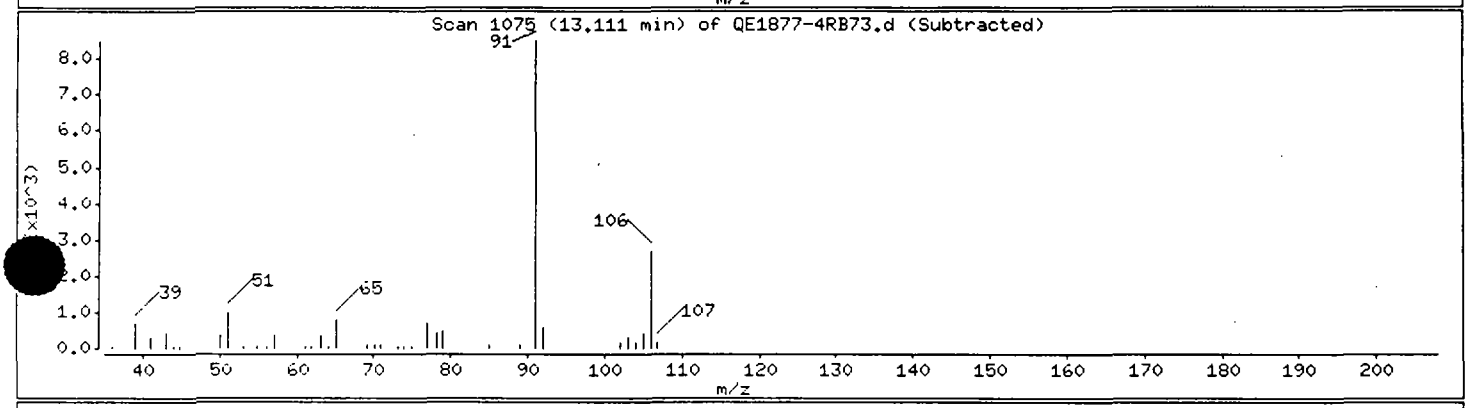
Column phase: ZB-624

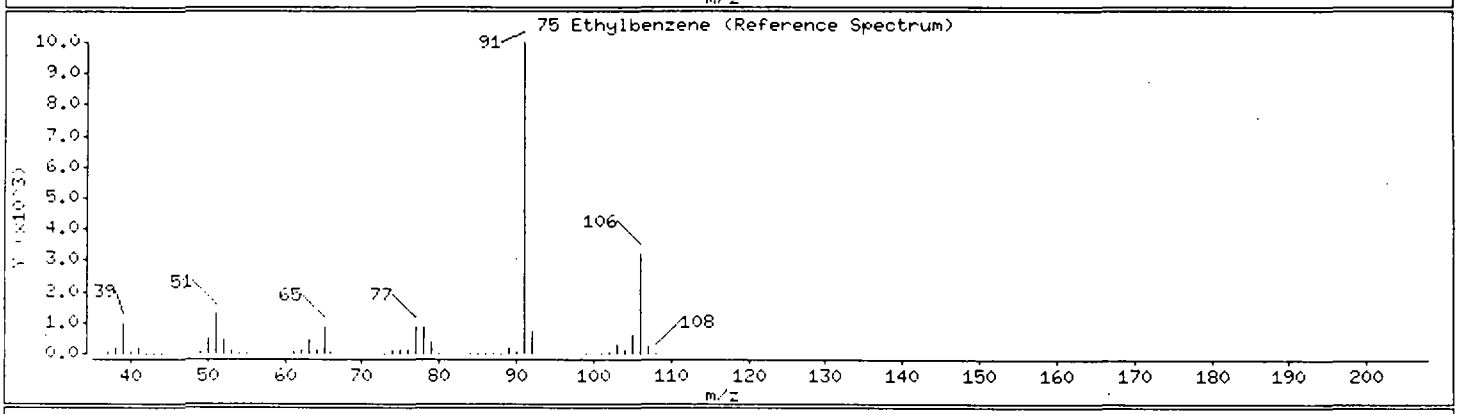
Column diameter: 0.32

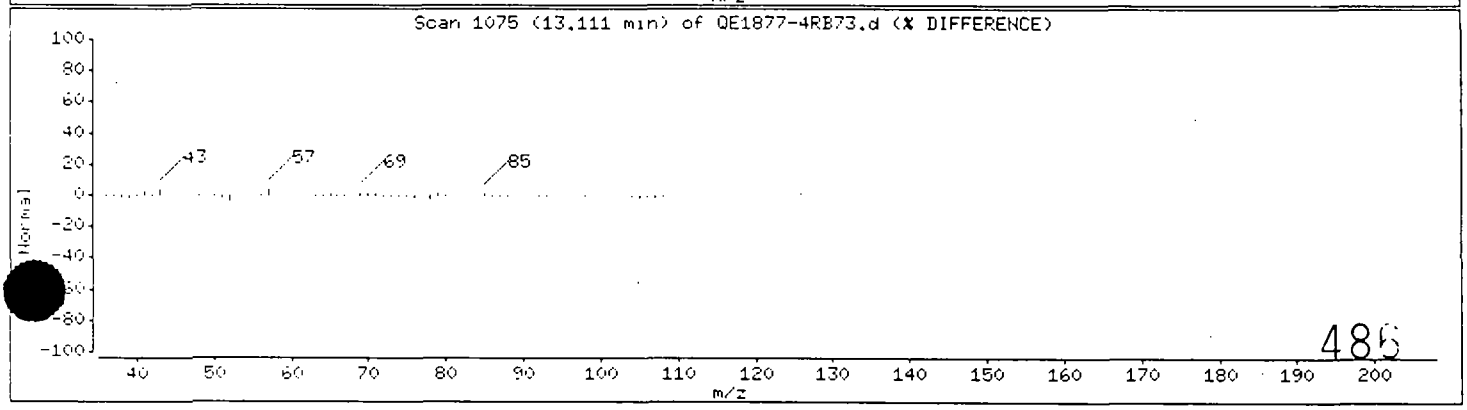
75 Ethylbenzene

Concentration: 0.166 ug/L









Data File: /chem/5972hp73.i/DF020307B73.b/QE1877-4RB73.d

Date : 08-MAR-2002 03:49

Client ID: HW-9A

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

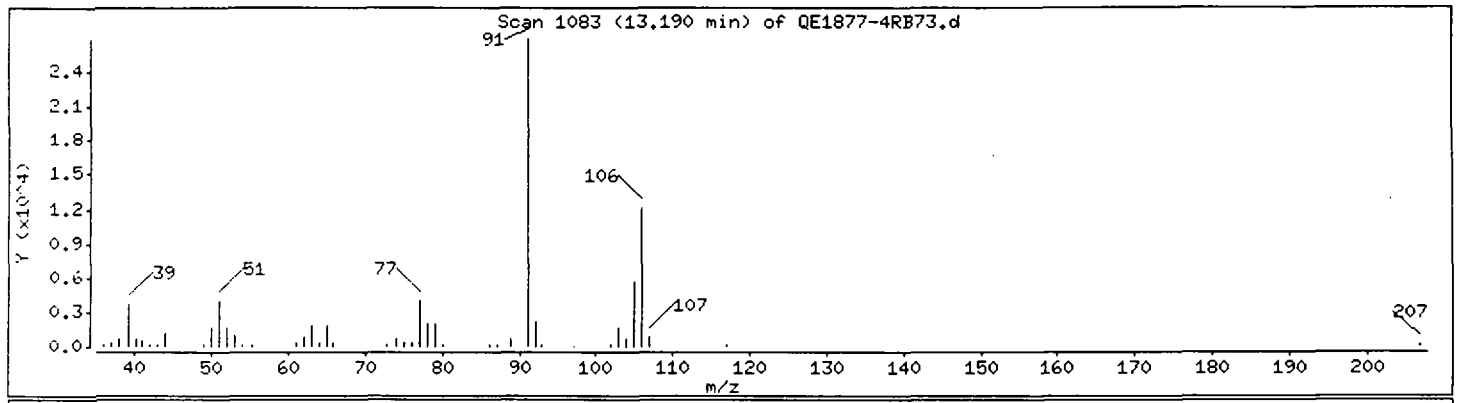
Operator: 2323

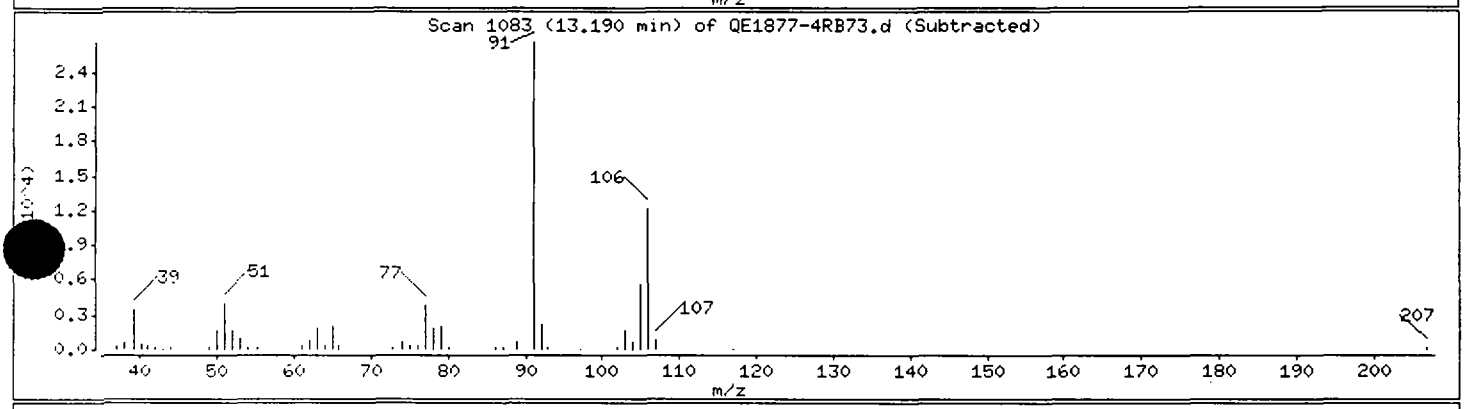
Column phase: ZB-624

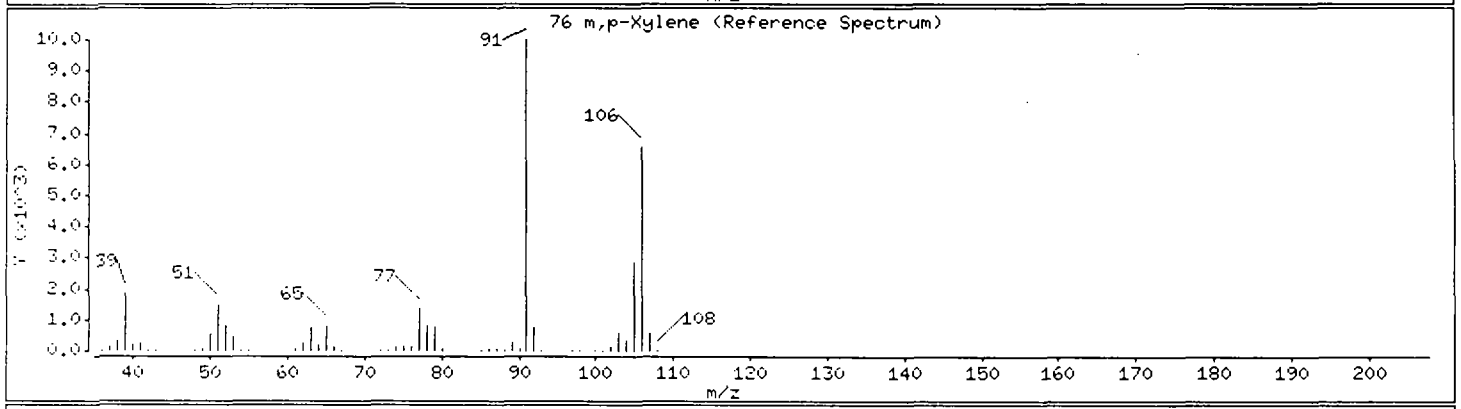
Column diameter: 0.32

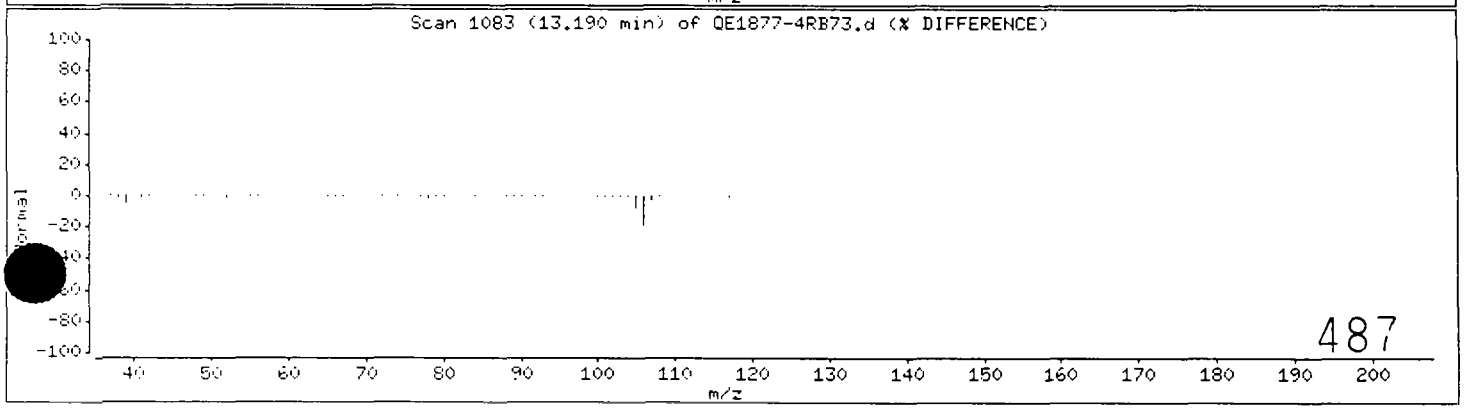
76 m,p-Xylene

Concentration: 0.685 ug/L









Data File: /chem/5972hp73.i/DF020307B73.b/QE1877-4RB73.d

Date : 08-MAR-2002 03:49

Client ID: MW-9A

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

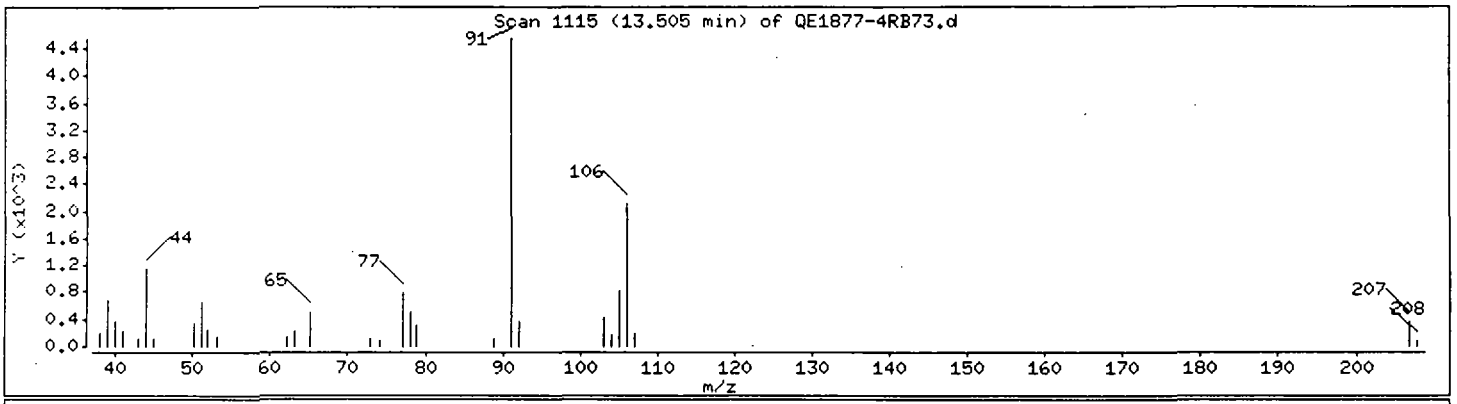
Operator: 2323

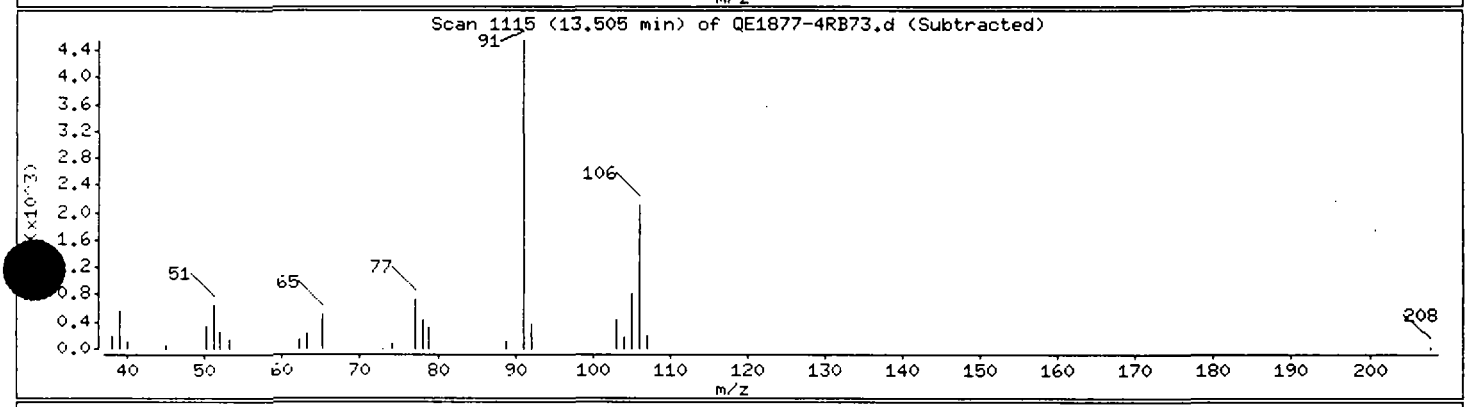
Column phase: ZB-624

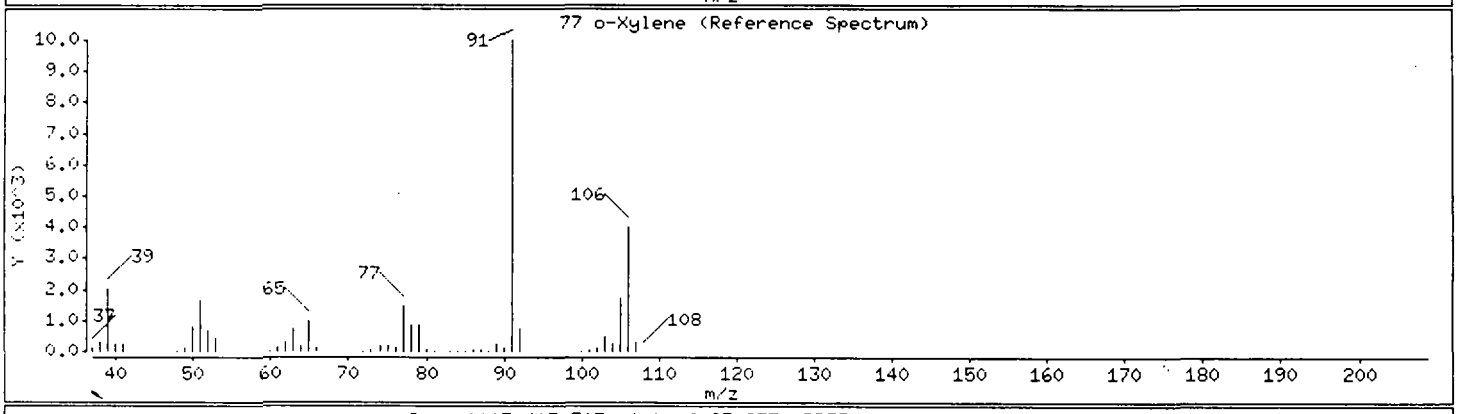
Column diameter: 0.32

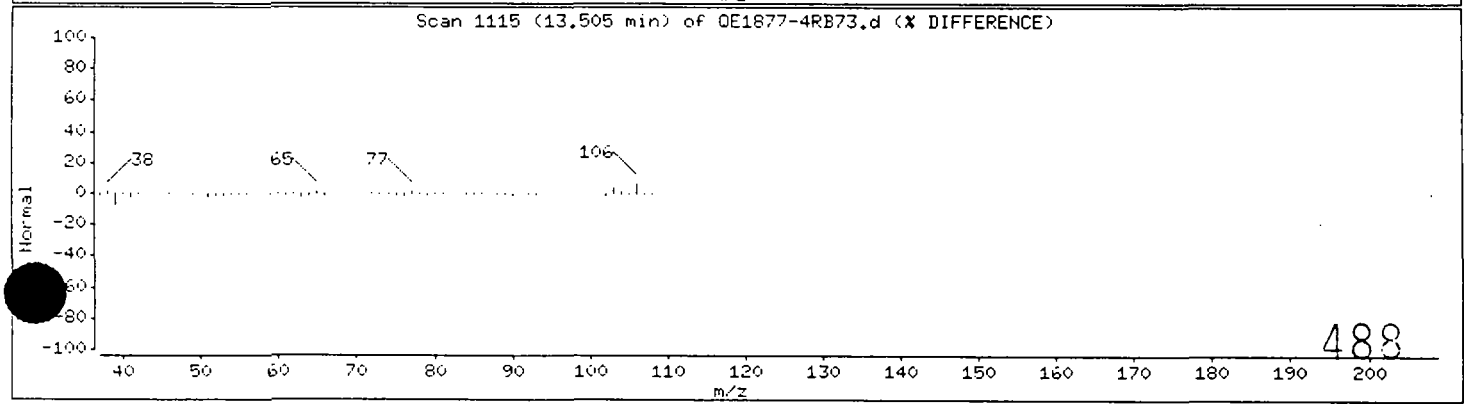
77 o-Xylene

Concentration: 0.128 ug/L









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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TRIPBLANK

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: QE1877-7

Sample wt/vol: 25 (g/ml) ML Lab File ID: QE1877-7A73

Level: (low/med) LOW Date Received: 03/06/02

% Moisture: not dec. _____ Date Analyzed: 03/07/02

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-15-0	Carbon disulfide	0.5	U
67-64-1	Acetone	2	JB
75-09-2	Methylene Chloride	0.2	J
156-60-5	trans-1,2-Dichloroethene	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-butanone	3	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
71-43-2	Benzene	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	3	U
108-88-3	Toluene	0.06	J
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
591-78-6	2-hexanone	3	U
124-48-1	Dibromochloromethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.5	U
108-38-3	m,p-Xylene	1	U
95-47-6	o-Xylene	0.5	U
100-42-5	Styrene	0.5	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TRIPBLANK

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: QE1877-7

Sample wt/vol: 25 (g/ml) ML Lab File ID: QE1877-7A73

Level: (low/med) LOW Date Received: 03/06/02

% Moisture: not dec. _____ Date Analyzed: 03/07/02

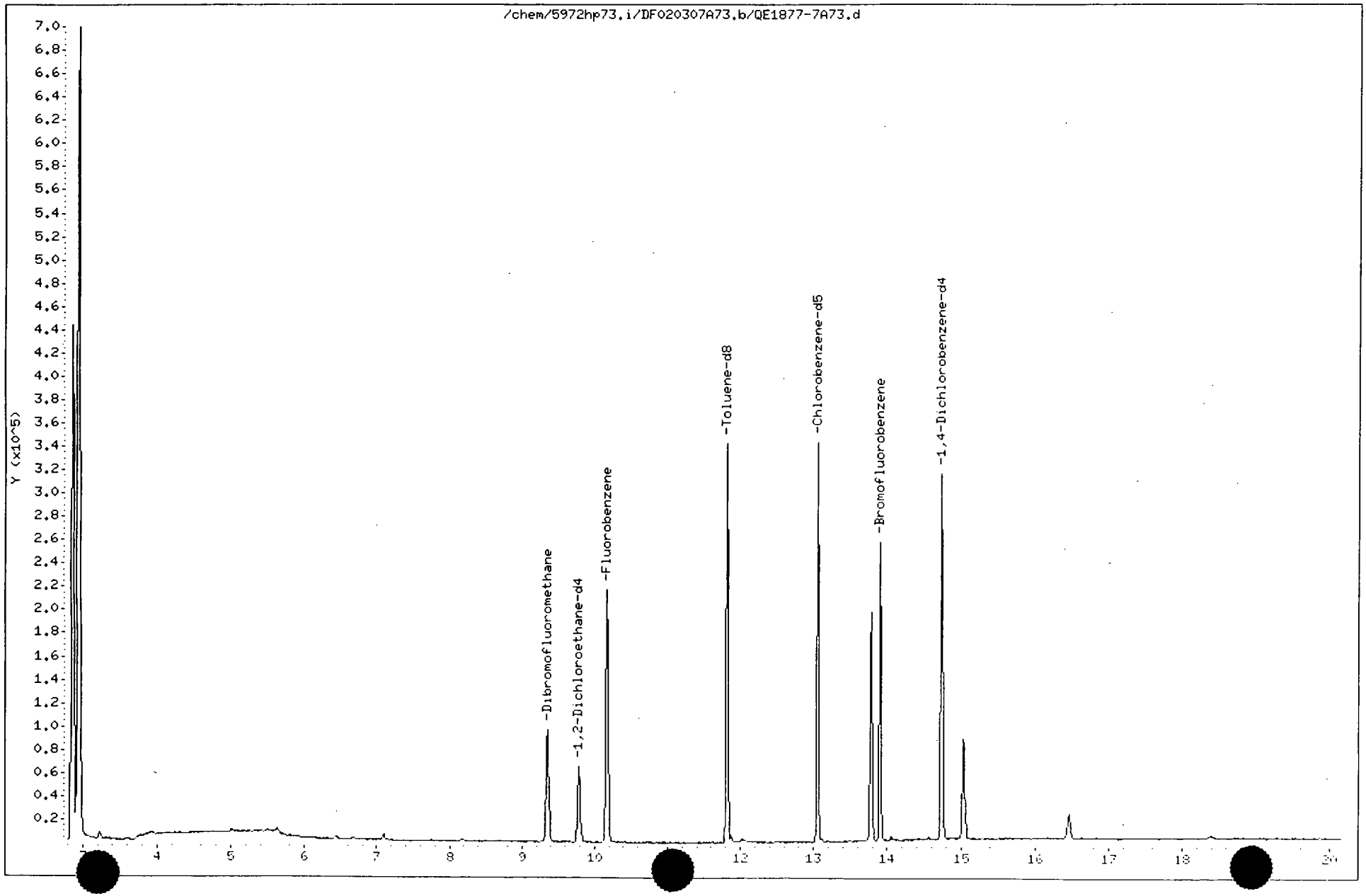
GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-25-2	Bromoform	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
1330-20-7	Xylene (total)	0.5	U

Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-7A73.d
Date : 07-MAR-2002 13:56
Client ID: TRIPBLANK
Sample Info:
Purge Volume: 25.0
Column phase: ZB-624

Instrument: 5972hp73.i
Operator: 2429
Column diameter: 0.32



Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-7A73.d
Report Date: 08-Mar-2002 15:51

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF020307A73.b/QE1877-7A73.d
Lab Smp Id: QE1877-7 Client Smp ID: TRIPBLANK
Inj Date : 07-MAR-2002 13:56
Operator : 2429 Inst ID: 5972hp73.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp73.i/DF020307A73.b/W8260-B-25MLv6.m
Meth Date : 08-Mar-2002 13:55 hubbard Quant Type: ISTD
Cal Date : 22-FEB-2002 22:50 Cal File: CY020222B73.d
Als bottle: 14 QC Sample: FIELDBLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL3CT.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	10.173	10.169	(1.000)	231567	125.000	
* 2 Chlorobenzene-d5	117	13.057	13.053	(1.000)	169518	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.740	14.736	(1.000)	80768	125.000	
$ 4 Dibromofluoromethane	113	9.356	9.352	(0.920)	71301	132.762	5.31
$ 5 1,2-Dichloroethane-d4	65	9.789	9.775	(0.962)	57470	126.015	5.04
$ 6 Toluene-d8	98	11.816	11.813	(0.905)	218624	128.588	5.14
$ 7 Bromofluorobenzene	95	13.903	13.899	(0.943)	77071	132.007	5.28
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
16 1,1-Dichloroethene	96	Compound Not Detected					
21 Carbon disulfide	76	Compound Not Detected.					
18 Acetone	43	6.442	6.439	(0.633)	3862	40.5834	1.62(aM) ?
24 Methylene Chloride	84	7.102	7.088	(0.698)	2290	3.84608	0.154(a)
27 trans-1,2-Dichloroethene	96	Compound Not Detected.					

gaH 3/8/02

Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-7A73.d
Report Date: 08-Mar-2002 15:51

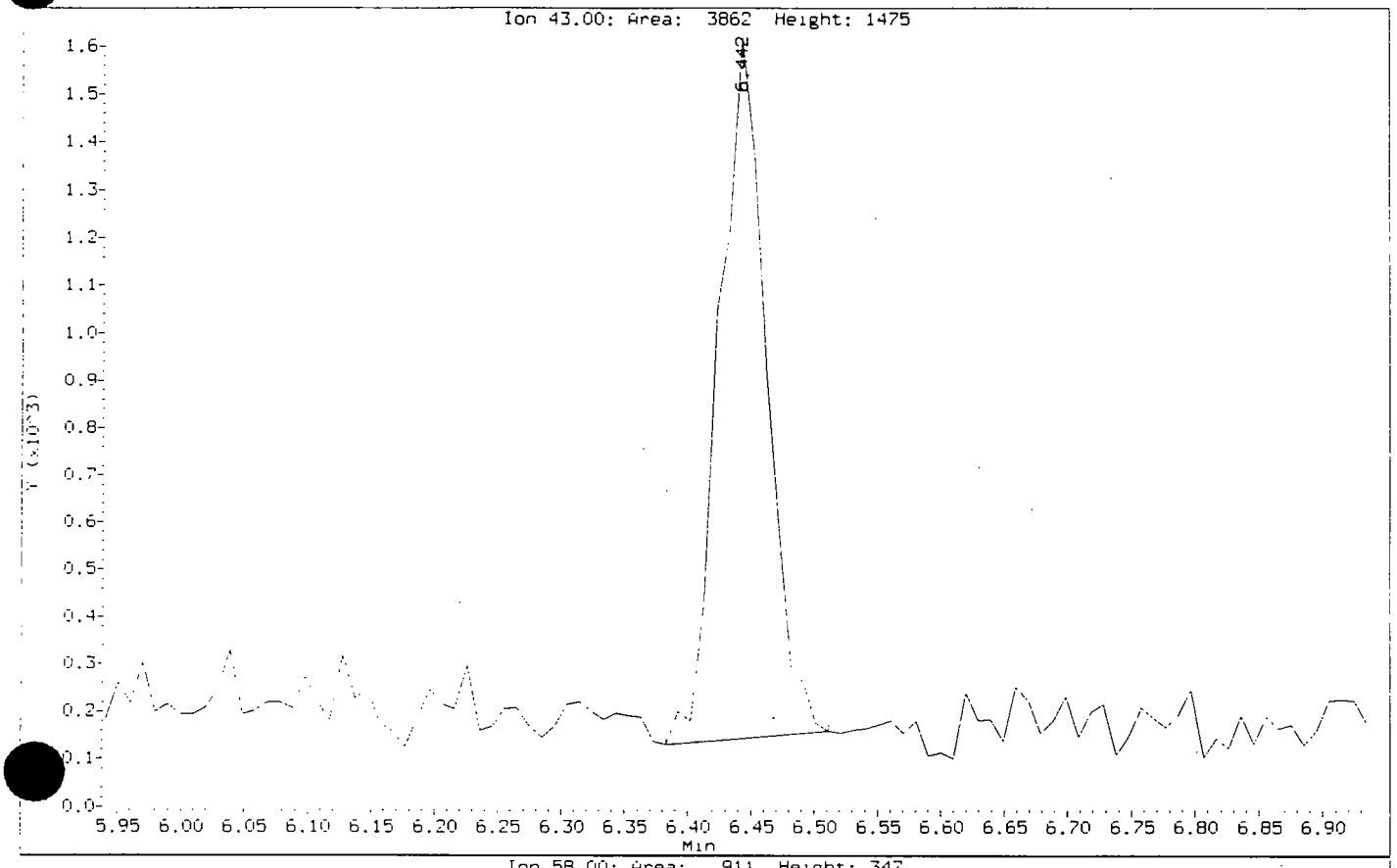
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
30 1,1-Dichloroethane	63	Compound Not Detected.					
34 cis-1,2-Dichloroethene	96	Compound Not Detected.					
37 2-butanone	43	Compound Not Detected.					
42 Chloroform	83	Compound Not Detected.					
43 1,1,1-Trichloroethane	97	Compound Not Detected.					
48 Carbon Tetrachloride	117	Compound Not Detected.					
51 Benzene	78	Compound Not Detected.					
49 1,2-Dichloroethane	62	Compound Not Detected.					
53 Trichloroethene	130	Compound Not Detected.					
55 1,2-Dichloropropane	63	Compound Not Detected.					
59 Bromodichloromethane	83	Compound Not Detected.					
61 cis-1,3-Dichloropropene	75	Compound Not Detected.					
62 4-Methyl-2-pentanone	43	Compound Not Detected.					
63 Toluene	92	11.876	11.872	(0.910)	2217	1.58722	0.0635(a)
64 trans-1,3-Dichloropropene	75	Compound Not Detected.					
65 1,1,2-Trichloroethane	97	Compound Not Detected.					
68 Tetrachloroethene	164	Compound Not Detected.					
69 2-hexanone	43	Compound Not Detected.					
70 Dibromochloromethane	129	Compound Not Detected.					
72 Chlorobenzene	112	Compound Not Detected.					
75 Ethylbenzene	106	Compound Not Detected.					
76 m,p-Xylene	106	Compound Not Detected.					
77 o-Xylene	106	Compound Not Detected.					
78 Styrene	104	Compound Not Detected.					
79 Bromoform	173	Compound Not Detected.					
[illegible] 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
[illegible]07 Xylene (total)	106	Compound Not Detected.					

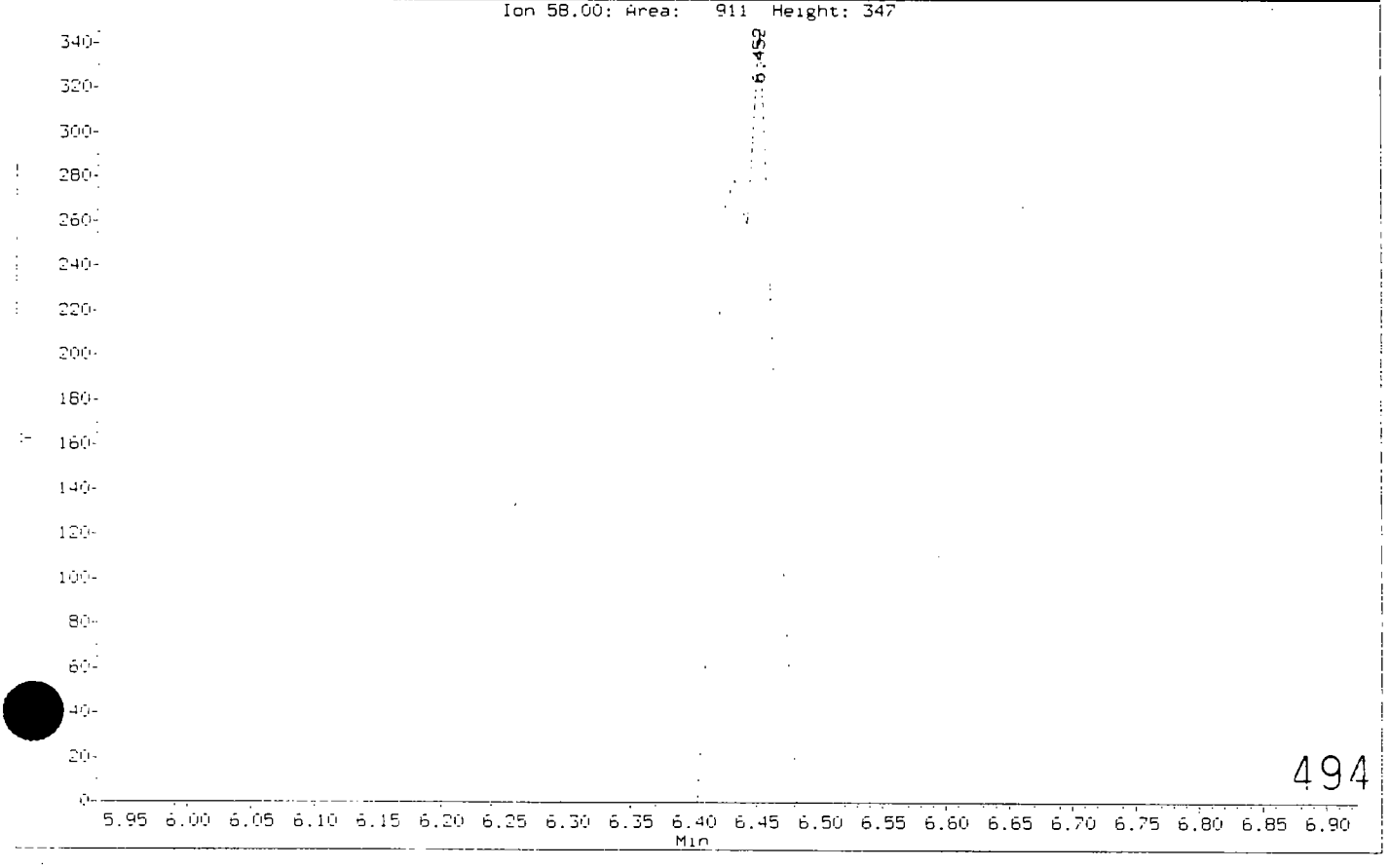
QC Flag Legend

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

Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-7A73.d
Injection Date: 07-MAR-2002 13:56
Instrument: 5972hp73.i
Client Sample ID: TRIPBLANK

pound: Acetone
Number: 67-64-1





Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-7A73.d

Date : 07-MAR-2002 13:56

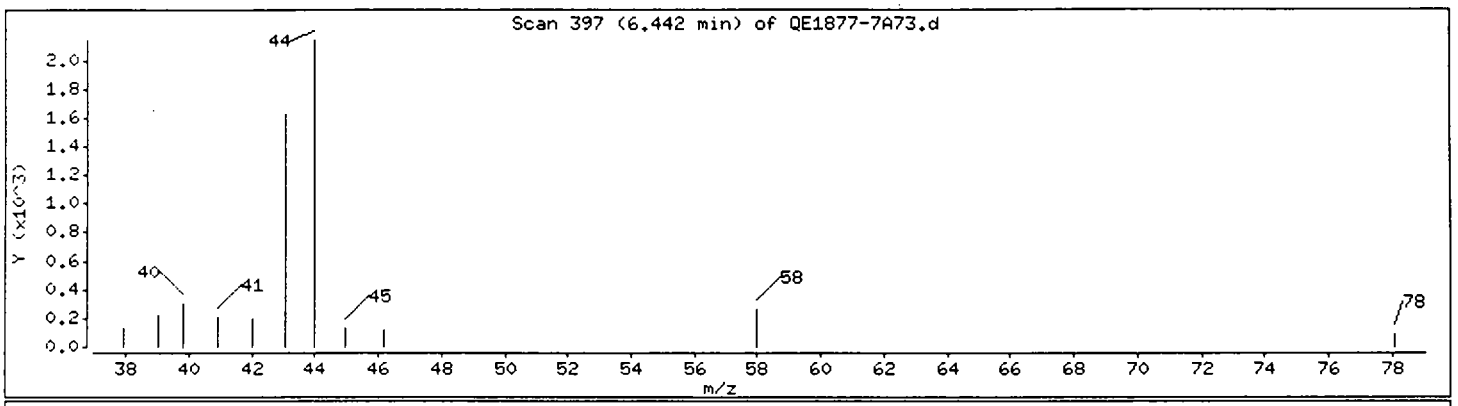
Client ID: TRIPBLANK | Instrument: 5972hp73.i

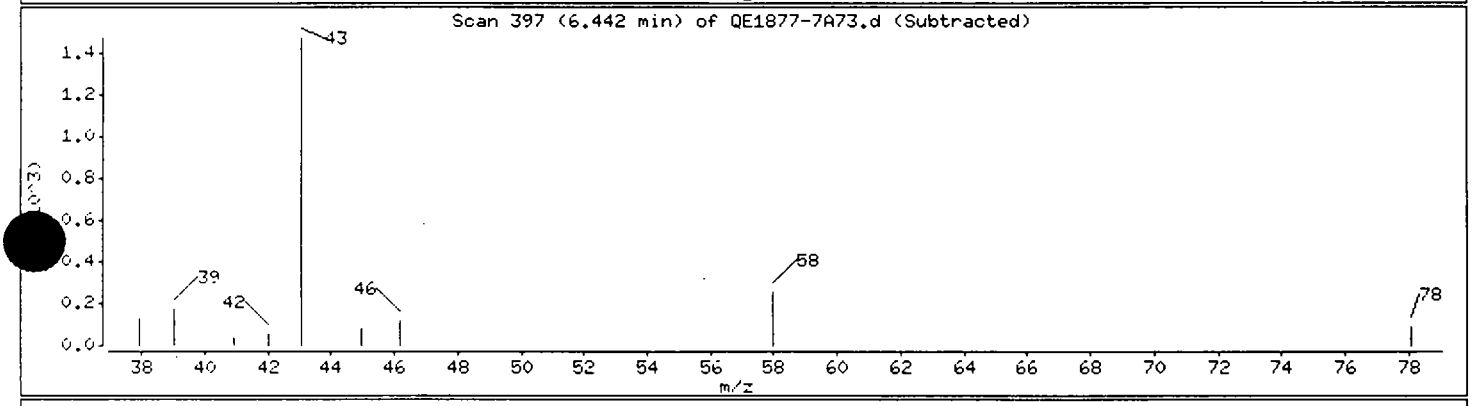
Sample Info:

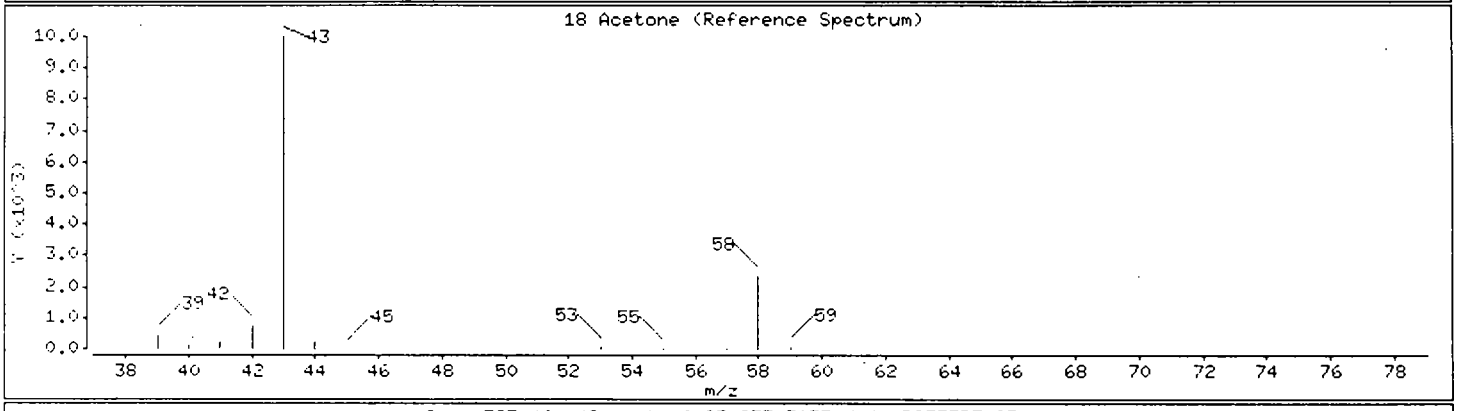
Purge Volume: 25.0 | Operator: 2429

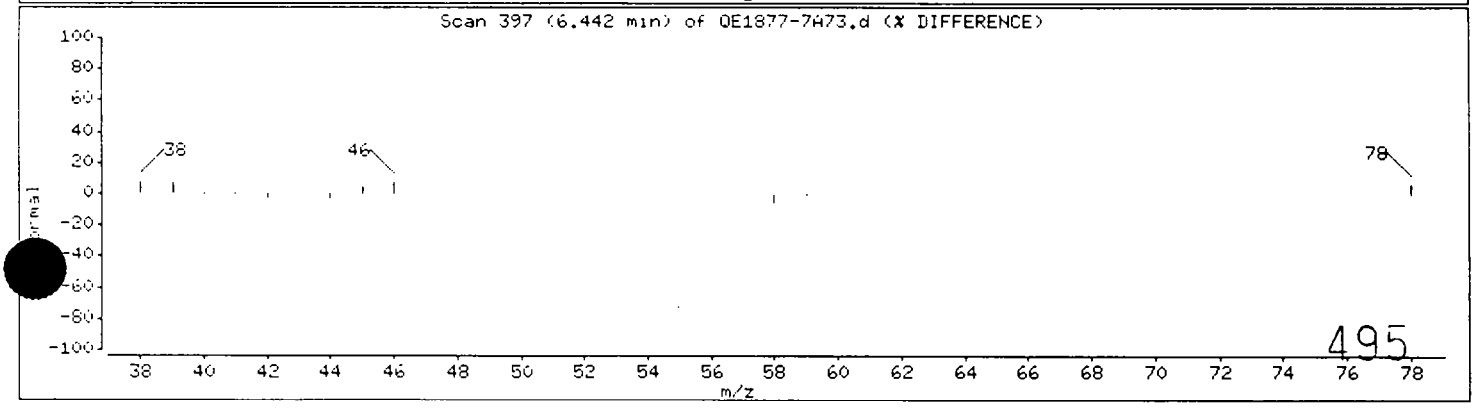
Column phase: ZB-624 | Column diameter: 0.32

18 Acetone | Concentration: 1.62 ug/L









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Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-7A73.d

Date : 07-MAR-2002 13:56

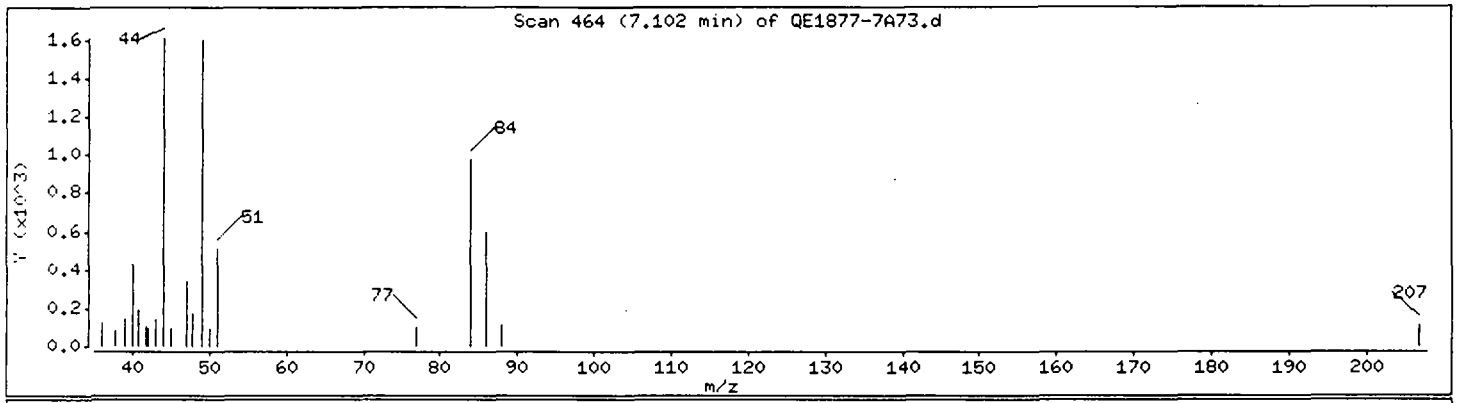
Client ID: TRIPBLANK | Instrument: 5972hp73.i

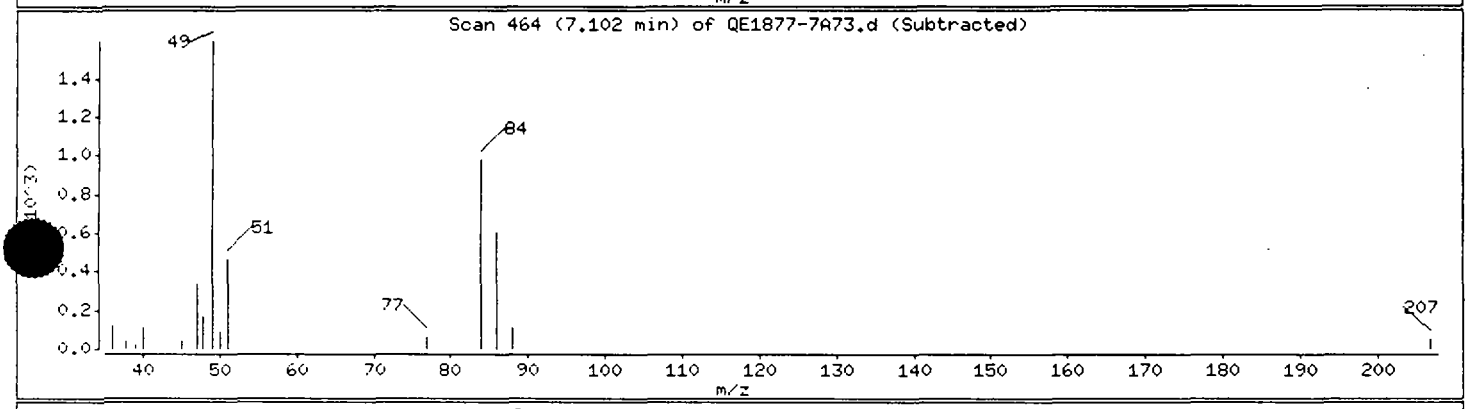
Sample Info:

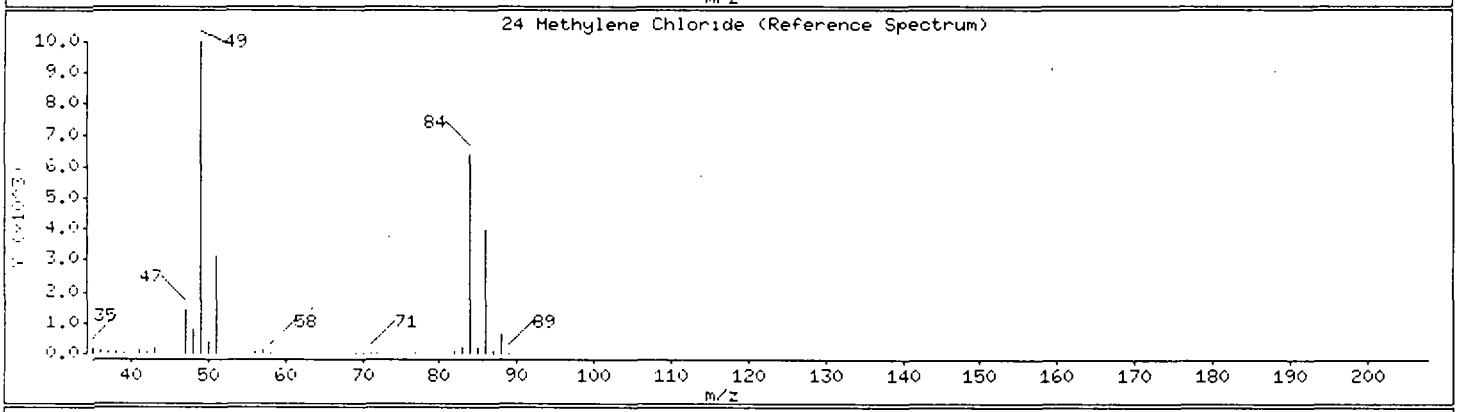
Purge Volume: 25.0 | Operator: 2429

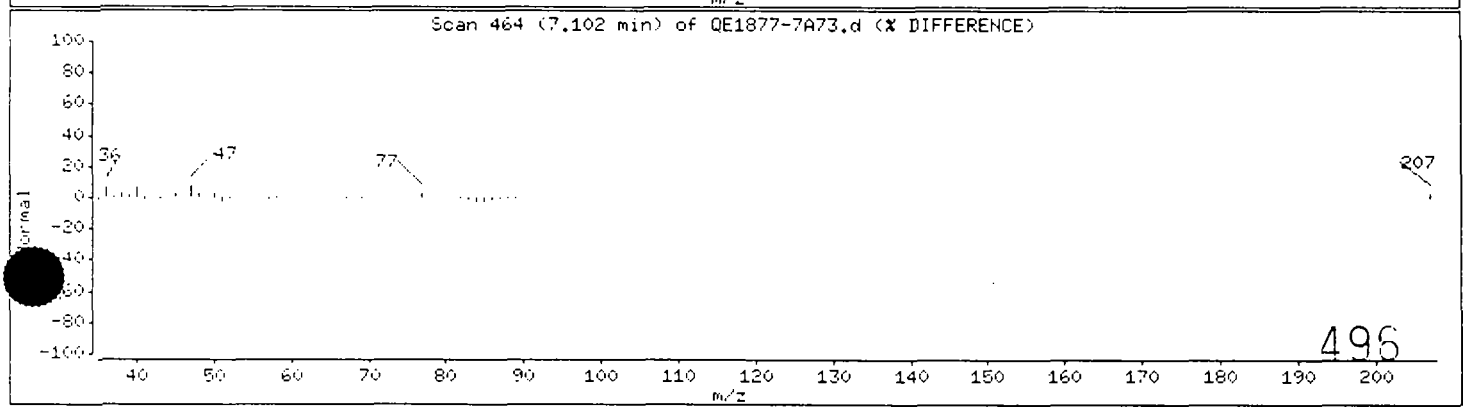
Column phase: ZB-624 | Column diameter: 0.32

24 Methylene Chloride | Concentration: 0.154 ug/L









496

Data File: /chem/5972hp73.i/DF020307A73.b/QE1877-7A73.d

Date : 07-MAR-2002 13:56

Client ID: TRIPBLANK

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

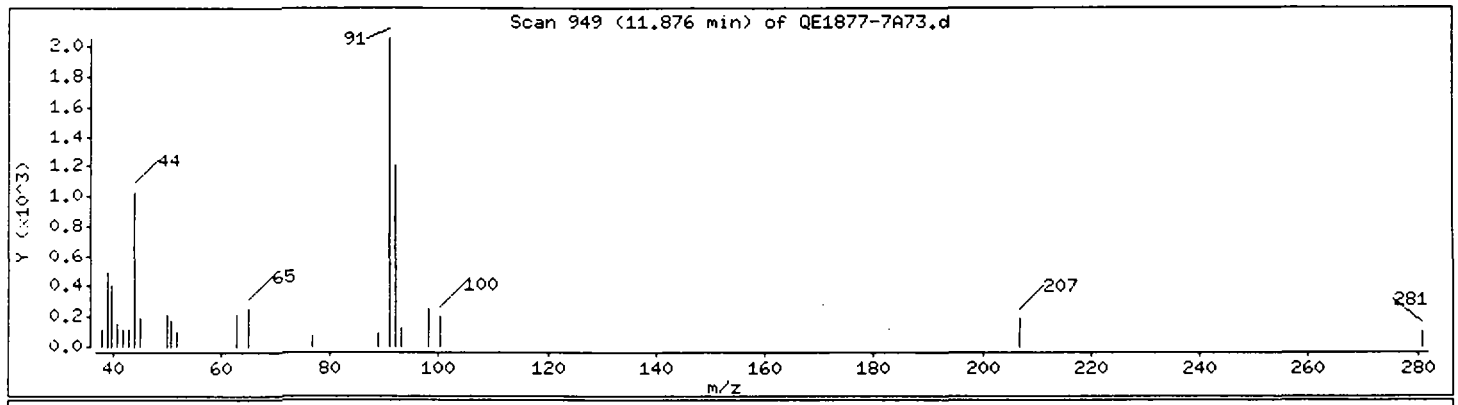
Operator: 2429

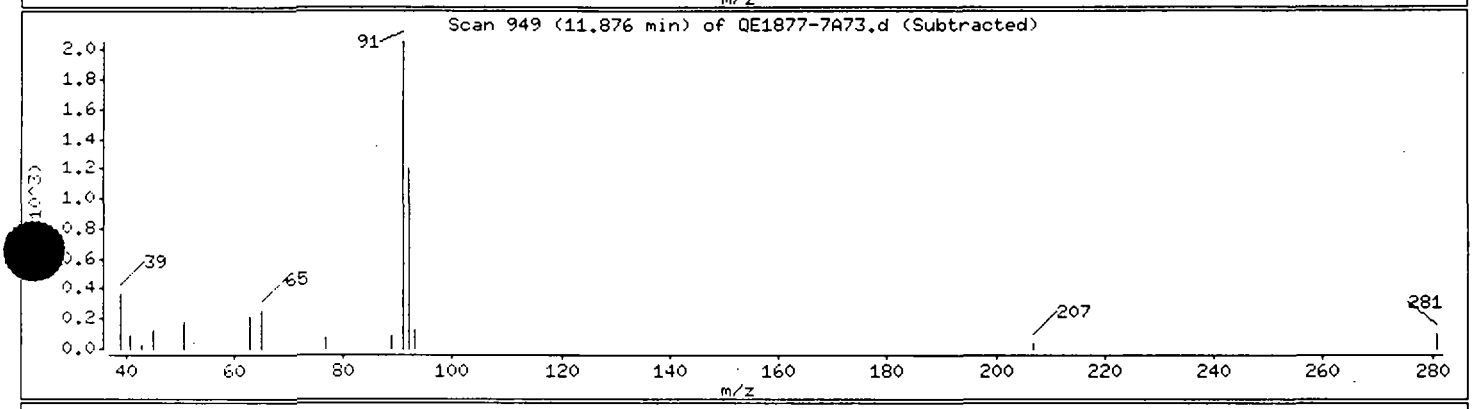
Column phase: ZB-624

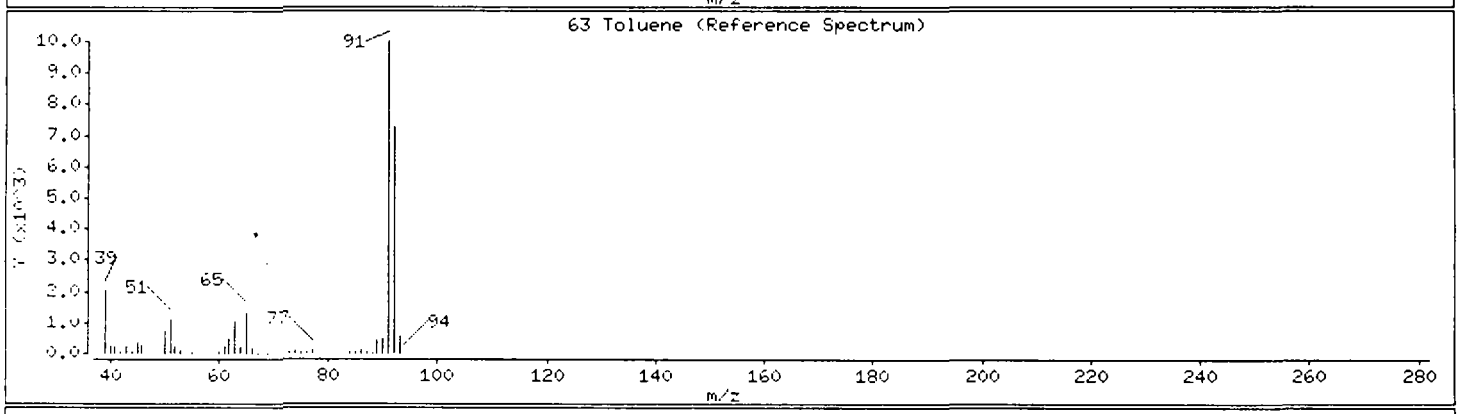
Column diameter: 0.32

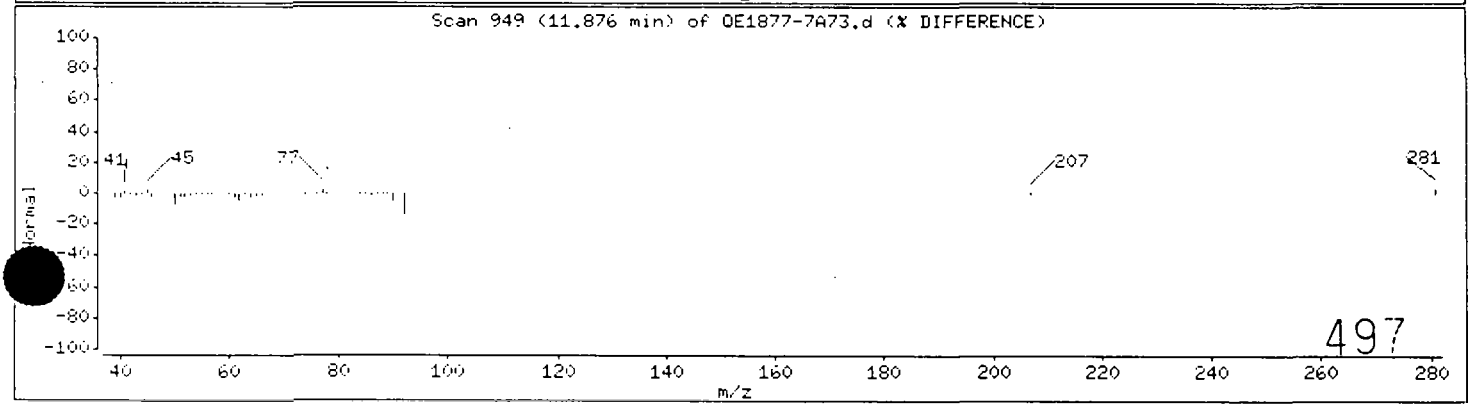
63 Toluene

Concentration: 0.0635 ug/L









3. Standards Data

a. Initial Calibration Data (Form VI VOA)

b. Continuing Calibration Data (Form VII VOA)

a. Initial Calibration Data (Form VI VOA)

If more than one instrument is used, forms shall be arranged in order by instrument. Multiple initial calibrations from the same instrument shall be in chronological order. Within each initial calibration, the standards are in order by level, from lowest to highest.

(1) Reconstructed Ion Chromatograms and quantitation reports for the initial (five-point) calibration. Spectra not required.

(2) EICPs displaying each manual integration.

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Instrument ID: 5972HP73 Calibration Date(s): 02/22/02 02/22/02

Column: ZB-624 ID: 0.32 (mm) Calibration Time(s): 2021 2250

LAB FILE ID: RF0.5: CT020222B73RF1: CU020222B73 RF5: CY020222B73
RF10: CW020222B73 RF25: CX020222B73

COMPOUND	RF0.5	RF1	RF5	RF10	RF25
Chloromethane	0.483	0.493	0.468	0.427	0.376
Vinyl Chloride	0.367	0.385	0.363	0.364	0.326
Bromomethane	0.156	0.187	0.182	0.181	0.138
Chloroethane	0.193	0.186	0.164	0.158	0.144
1,1-Dichloroethene	0.374	0.365	0.324	0.329	0.288
Carbon disulfide	1.464	1.490	1.379	1.369	1.306
Acetone	0.074	0.057	0.046	0.045	0.035
Methylene Chloride	0.353	0.349	0.326	0.307	0.271
trans-1,2-Dichloroethene	0.373	0.389	0.351	0.347	0.309
1,1-Dichloroethane	0.647	0.711	0.684	0.660	0.595
cis-1,2-Dichloroethene	0.363	0.369	0.343	0.333	0.296
2-butanone	0.066	0.068	0.071	0.061	0.055
Chloroform	0.691	0.697	0.643	0.620	0.574
1,1,1-Trichloroethane	0.633	0.660	0.601	0.596	0.546
Carbon Tetrachloride	0.530	0.574	0.513	0.520	0.486
Benzene	1.368	1.484	1.406	1.359	1.239
1,2-Dichloroethane	0.354	0.382	0.364	0.353	0.318
Trichloroethene	0.418	0.405	0.429	0.364	0.321
1,2-Dichloropropane	0.288	0.305	0.299	0.286	0.253
Bromodichloromethane	0.450	0.434	0.409	0.398	0.355
cis-1,3-Dichloropropene	0.442	0.486	0.456	0.436	0.398
4-Methyl-2-pentanone	0.216	0.230	0.212	0.207	0.191
Toluene	1.079	1.094	0.988	1.020	0.969
trans-1,3-Dichloropropene	0.444	0.513	0.444	0.435	0.382
1,1,2-Trichloroethane	0.209	0.249	0.210	0.213	0.196
Tetrachloroethene	0.455	0.456	0.340	0.412	0.398
2-hexanone	0.124	0.157	0.153	0.141	0.133
Dibromochloromethane	0.322	0.348	0.331	0.329	0.314
Chlorobenzene	1.053	1.145	1.019	1.070	0.994
Ethylbenzene	0.608	0.632	0.548	0.602	0.543
m,p-Xylene	0.743	0.792	0.699	0.739	0.674
o-Xylene	0.680	0.737	0.675	0.689	0.631
Styrene	1.090	1.146	1.077	1.099	1.005
Bromoform	0.177	0.194	0.187	0.186	0.172
1,1,2,2-Tetrachloroethane	0.504	0.557	0.487	0.473	0.450
Xylene (total)	0.680	0.737	0.675	0.689	0.631
Dibromofluoromethane	0.295	0.306	0.300	0.289	0.260
1,2-Dichloroethane-d4	0.264	0.261	0.255	0.239	0.212
Toluene-d8	1.425	1.338	1.172	1.198	1.135
Bromofluorobenzene	0.982	0.977	0.826	0.875	0.858

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Instrument ID: 5972HP73 Calibration Date(s): 02/22/02 02/22/02

Column: ZB-624 ID: 0.32 (mm) Calibration Time(s): 2021 2250

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2	MAX %RSD OR R^2
Chloromethane	AVRG	0.44948481	10.730	90.000
Vinyl Chloride	AVRG	0.36110069	5.925	30.000
Bromomethane	AVRG	0.16869371	12.482	90.000
Chloroethane	AVRG	0.16883095	11.950	90.000
1,1-Dichloroethene	AVRG	0.33600334	10.300	30.000
Carbon disulfide	AVRG	1.40183004	5.359	90.000
Acetone	AVRG	0.05136858	28.556	90.000
Methylene Chloride	AVRG	0.32140334	10.414	90.000
trans-1,2-Dichloroethene	AVRG	0.35395569	8.532	90.000
1,1-Dichloroethane	AVRG	0.65930212	6.568	90.000
cis-1,2-Dichloroethene	AVRG	0.34100637	8.520	90.000
2-butanone	AVRG	0.06432216	9.530	90.000
Chloroform	AVRG	0.64501732	7.937	30.000
1,1,1-Trichloroethane	AVRG	0.60742142	7.057	90.000
Carbon Tetrachloride	AVRG	0.52465955	6.112	90.000
Benzene	AVRG	1.37120632	6.474	90.000
1,2-Dichloroethane	AVRG	0.35433836	6.579	90.000
Trichloroethene	AVRG	0.38766388	11.479	90.000
1,2-Dichloropropane	AVRG	0.28626711	7.086	30.000
Bromodichloromethane	AVRG	0.40926181	8.901	90.000
cis-1,3-Dichloropropene	AVRG	0.44353327	7.202	90.000
4-Methyl-2-pentanone	AVRG	0.21108764	6.786	90.000
Toluene	AVRG	1.02996872	5.310	30.000
trans-1,3-Dichloropropene	AVRG	0.44381849	10.495	90.000
1,1,2-Trichloroethane	AVRG	0.21535359	9.198	90.000
Tetrachloroethene	AVRG	0.41216844	11.652	90.000
2-hexanone	AVRG	0.14162532	9.469	90.000
Dibromochloromethane	AVRG	0.32850125	3.868	90.000
Chlorobenzene	AVRG	1.05621599	5.477	90.000
Ethylbenzene	AVRG	0.58659748	6.675	30.000
m,p-Xylene	AVRG	0.72952789	6.232	90.000
o-Xylene	AVRG	0.68237873	5.546	90.000
Styrene	AVRG	1.08349182	4.705	90.000
Bromoform	AVRG	0.18324080	4.612	90.000
1,1,2,2-Tetrachloroethane	AVRG	0.49412415	8.135	90.000
Xylene (total)	AVRG	0.68237873	5.546	90.000
Dibromofluoromethane	AVRG	0.28990441	6.139	90.000
1,2-Dichloroethane-d4	AVRG	0.24617914	8.646	90.000
Toluene-d8	AVRG	1.25369743	9.800	90.000
Bromofluorobenzene	AVRG	0.90357911	7.960	90.000

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Instrument ID: 5972HP73 Calibration Date(s): 02/22/02 02/22/02

Column: ZB-624 ID: 0.32 (mm) Calibration Time(s): 2021 2250

Average %RSD test result.

Calculate Average %RSD: 9.302831650
Maximum Average %RSD: 15.00000000

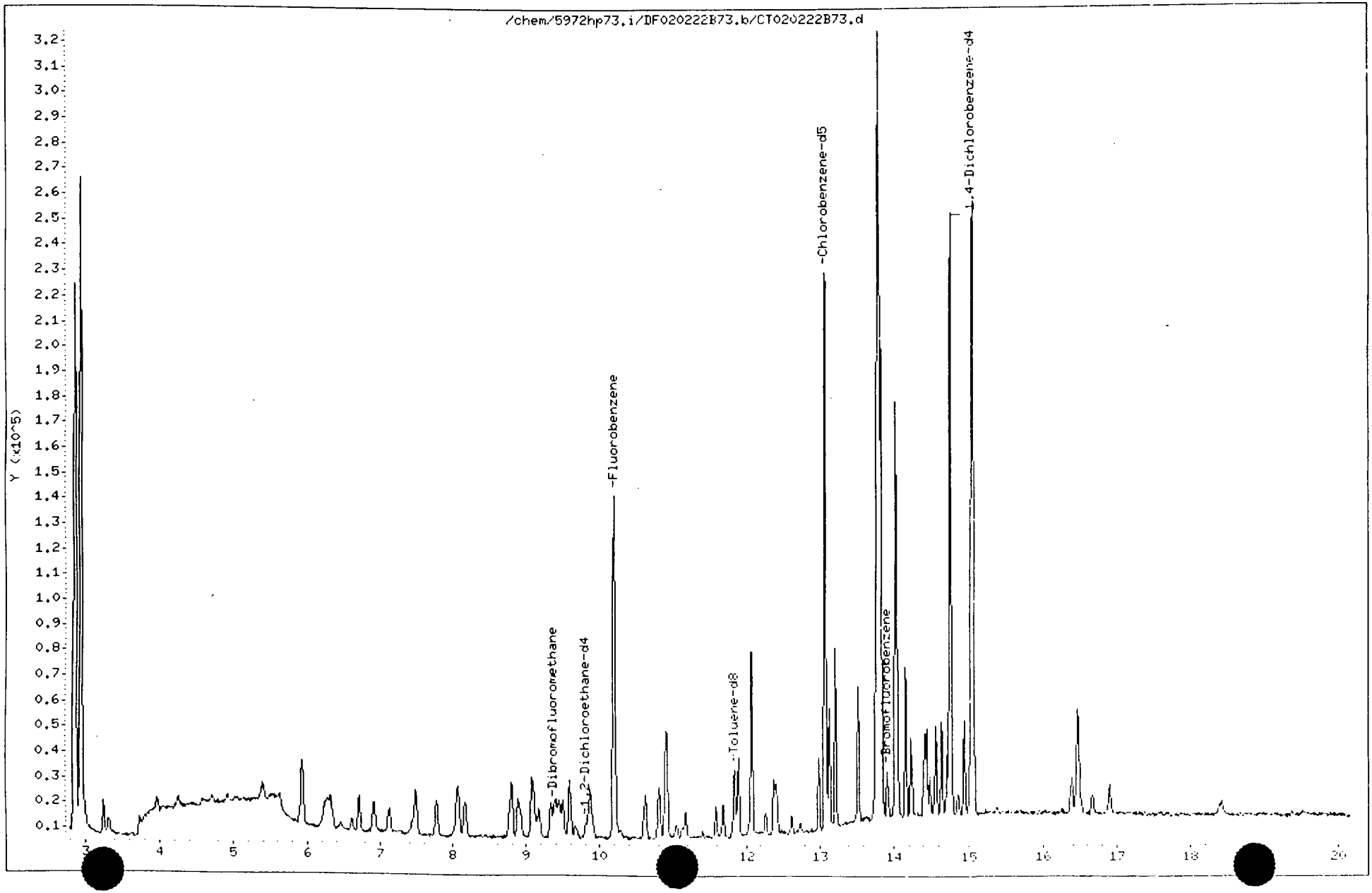
Note: Passes Average %RSD Test.

FORM VI VOA

Data File: /chem/5972hp73.i/DF020222B73.b/CT020222B73.d
Date : 22-FEB-2002 20:21
Client ID: VSTD0.5
Sample Info:
Purge Volume: 25.0
Column phase: ZB-624

Instrument: 5972hp73.i

Operator: 2323
Column diameter: 0.32



Data File: /chem/5972hp73.i/DF020222B73.b/CT020222B73.d
Report Date: 26-Feb-2002 09:30

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF020222B73.b/CT020222B73.d
Lab Smp Id: VSTD0.5 Client Smp ID: VSTD0.5
Inj Date : 22-FEB-2002 20:21
Operator : 2323 Inst ID: 5972hp73.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp73.i/DF020222B73.b/W8260-B-25MLv6.m
Meth Date : 26-Feb-2002 09:30 mead Quant Type: ISTD
Cal Date : 22-FEB-2002 20:21 Cal File: CT020222B73.d
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT ng)	ON-COL (ng)
* 1 Fluorobenzene	96	10.188	10.189	1.0000	148144	125.000	
* 2 Chlorobenzene-d5	117	13.072	13.063	1.0000	115440	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.755	14.755	1.000	60951	125.000	
4 Dibromofluoromethane	113	9.371	9.372	0.9207	4375	12.5000	12.50
5 1,2-Dichloroethane-d4	65	9.674	9.685	0.9507	3915	12.5000	12.50
6 Toluene-d8	98	11.832	11.812	0.919	16452	12.5000	12.50
7 Bromofluorobenzene	95	13.374	13.[illegible]	[illegible]	5966	12.5000	12.50
8 Dichlorodifluoromethane	85	3.314	[illegible]	[illegible]	7117	12.5000	12.50
9 Chloromethane	50	3.731	[illegible]	[illegible]	7162	12.5000	12.50
10 Vinyl Chloride	62	3.964	3.968	[illegible]	5436	12.5000	12.50
11 Bromomethane	94	4.714	4.706	[illegible]	2316	12.5000	12.50
12 Chloroethane	64	4.902	4.913	1.493	2855	12.5000	12.50
13 Trichlorofluoromethane	101	5.336	5.385	1.5330	7168	12.5000	12.50
14 Diethylether	74	5.917	5.917	1.6611	12421	125.000	125.0
15 Acrolein	56	6.211	6.212	1.6100	2554	125.000	125.0(M) 2
16 1,1-Dichloroethene	96	6.33[illegible]	[illegible]	[illegible]	5543	12.5000	12.50

pm 2/26/2

Data File: /chem/5972hp73.i/DF020222B73.b/CT020222B73.d
Report Date: 26-Feb-2002 09:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
17	1,1,1-trichloro-2,2,2-trifluo	117	6.241	6.242	(0.613)	3481	12.5000	12.50
20	1,1,2-trichloro-1,2,2-trifluo	85	6.281	6.281	(0.616)	4146	12.5000	12.50
18	Acetone	43	6.468	6.458	(0.635)	5448	62.5000	62.50(M) 2
19	Iodomethane	142	6.615	6.616	(0.649)	6451	12.5000	12.50
21	Carbon disulfide	76	6.714	6.704	(0.659)	21697	12.5000	12.50
22	3-Chloropropene	39	6.911	6.911	(0.678)	8372	12.5000	12.50(M) 2
23	Acetonitrile	41	6.911	6.911	(0.678)	11480	12.5000	12.50(M) 2
163	Methyl acetate	43	6.940	6.931	(0.681)	2418	12.5000	12.50(M) 2
24	Methylene Chloride	84	7.117	7.118	(0.699)	5230	12.5000	12.50
25	Acrylonitrile	53	7.501	7.492	(0.736)	7335	125.000	125.0
26	tert-butyl alcohol	59	7.265	7.265	(0.713)	2189	125.000	125.0
27	trans-1,2-Dichloroethene	96	7.481	7.482	(0.734)	5532	12.5000	12.50
28	Methyl-tert-butyl ether	73	7.442	7.442	(0.730)	9218	12.5000	12.50
29	n-hexane	57	7.767	7.767	(0.762)	9401	12.5000	12.50
30	1,1-Dichloroethane	63	8.072	8.063	(0.792)	9583	12.5000	12.50
32	Vinyl acetate	43	8.072	8.072	(0.792)	17809	25.0000	25.00
33	Isopropyl ether	45	8.042	8.043	(0.789)	19719	12.5000	12.50
35	2,2-Dichloropropane	77	8.781	8.781	(0.862)	9880	12.5000	12.50
34	cis-1,2-Dichloroethene	96	8.800	8.801	(0.864)	5380	12.5000	12.50
31	Chloroprene	53	8.161	8.161	(0.801)	10370	12.5000	12.50
37	2-butanone	43	8.800	8.791	(0.864)	4911	62.5000	62.50(M) 2
36	Propionitrile	54	8.918	8.909	(0.875)	11958	625.000	625.0
38	Methyl acrylate	55	8.889	8.879	(0.872)	19704	125.000	125.0
39	Methacrylonitrile	41	9.076	9.076	(0.891)	15310	125.000	125.0
[illegible]	Bromochloromethane	128	9.115	9.106	(0.895)	1875	12.5000	12.50
42	Chloroform	83	9.174	9.175	(0.900)	10241	12.5000	12.50
41	Tetrahydrofuran	42	9.135	9.135	(0.897)	2632	50.0000	50.00(M) 2
43	1,1,1-Trichloroethane	97	9.391	9.391	(0.922)	9382	12.5000	12.50
45	Pentafluorobenzene	168	9.332	9.322	(0.916)	11738	12.5000	12.50
44	Cyclohexane	84	9.440	9.431	(0.927)	7141	12.5000	12.50
46	1-chlorobutane	56	9.489	9.490	(0.931)	14836	12.5000	12.50
50	Isobutyl alcohol	43	9.657	9.667	(0.948)	4551	625.000	625.0
47	1,1-dichloropropene	75	9.578	9.578	(0.940)	7582	12.5000	12.50
48	Carbon Tetrachloride	117	9.588	9.588	(0.941)	7859	12.5000	12.50
51	Benzene	78	9.643	9.654	(0.946)	20273	12.5000	12.50
49	1,2-Dichloroethane	62	9.912	9.903	(0.971)	5238	12.5000	12.50
52	Crotonaldehyde	41	10.228	10.228	(1.0[illegible])	3090	125.000	125.0(M) 2
53	Trichloroethene	130	10.611	10.612	(1.042)	6196	12.5000	12.50
54	Methylcyclohexane	83	10.808	10.799	(1.0[illegible]1)	9540	12.5000	12.50
55	1,2-Dichloropropane	63	10.887	10.887	(1.070)	4274	12.5000	12.50
[illegible]	Dibromomethane	174	11.044	11.045	(1.084)	1941	12.5000	12.50
56	Methylmethacrylate	69	10.907	10.897	(1.071)	13356	125.000	125.0
57	1,4-dioxane	88	11.015	11.005	(1.081)	905	625.000	625.0
58	Bromodichloromethane	83	11.172	11.163	(1.097)	6664	12.5000	12.50
[illegible]	2-chloroethyl vinyl ether	63	11.339	11.339	(1.119)	927	125.000	125.0
[illegible]	cis-1,3-Dichloropropene	75	11.586	11.586	(1.137)	6551	12.5000	12.50
[illegible]	4-Methyl-2 pentanone	43	11.674	11.675	(0.893)	12456	62.5000	62.50

Rcm 2/26/2

Data File: /chem/5972hp73.i/DF020222B73.b/CT020222B73.d
Report Date: 26-Feb-2002 09:30

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
63 Toluene	92	11.891	11.891	(0.910)	12453	12.5000	12.50
64 trans-1,3-Dichloropropene	75	12.078	12.078	(0.924)	5123	12.5000	12.50
66 Ethylmethacrylate	69	12.068	12.068	(0.923)	32360	125.000	125.0
65 1,1,2-Trichloroethane	97	12.265	12.265	(0.938)	2415	12.5000	12.50
67 1,3-Dichloropropane	76	12.413	12.413	(0.950)	4510	12.5000	12.50
68 Tetrachloroethene	164	12.383	12.374	(0.947)	5255	12.5000	12.50
69 2-hexanone	43	12.413	12.403	(0.950)	7180	62.5000	62.50
70 Dibromochloromethane	129	12.629	12.620	(0.966)	3712	12.5000	12.50
71 1,2-Dibromoethane	107	12.737	12.738	(0.974)	2661	12.5000	12.50
73 1-Chlorohexane	55	12.993	12.984	(0.994)	6811	12.5000	12.50
72 Chlorobenzene	112	13.092	13.092	(1.002)	12160	12.5000	12.50
74 1,1,1,2-Tetrachloroethane	131	13.141	13.141	(1.005)	4510	12.5000	12.50
75 Ethylbenzene	106	13.131	13.131	(1.005)	7015	12.5000	12.50
76 m,p-Xylene	106	13.210	13.210	(1.011)	17163	25.0000	25.00
77 o-Xylene	106	13.515	13.515	(1.034)	7852	12.5000	12.50
78 Styrene	104	13.525	13.525	(1.035)	12581	12.5000	12.50
79 Bromoform	173	13.731	13.732	(1.050)	2049	12.5000	12.50
81 Isopropyl Benzene	105	13.761	13.761	(1.053)	24012	12.5000	12.50
81 cis-1,4-dichloro-2-butene	75	13.830	13.830	(1.058)	36165	500.000	500.0
82 1,1,2,2-Tetrachloroethane	83	13.997	13.998	(0.949)	3075	12.5000	12.50
84 Bromobenzene	156	14.056	14.057	(1.075)	4980	12.5000	12.50
83 1,2,3-Trichloropropane	110	14.056	14.047	(1.075)	684	12.5000	12.50
85 trans-1,4-dichloro-2-butene	53	14.027	14.027	(1.073)	31648	500.000	500.0
86 n-Propyl Benzene	91	14.046	14.047	(0.952)	34805	12.5000	12.50
[illegible] 2-Chlorotoluene	126	14.165	14.165	(0.960)	5238	12.5000	12.50
89 1,3,5-Trimethyl Benzene	105	14.155	14.155	(0.959)	18188	12.5000	12.50
88 4-Chlorotoluene	126	14.233	14.234	(0.965)	4929	12.5000	12.50
91 tert-Butyl Benzene	119	14.411	14.401	(0.977)	17088	12.5000	12.50
90 Pentachloroethane	167	14.479	14.480	(0.981)	2765	12.5000	12.50
92 1,2,4-Trimethyl Benzene	105	14.440	14.440	(0.979)	17777	12.5000	12.50
93 sec-Butyl Benzene	105	14.558	14.559	(0.987)	24352	12.5000	12.50
94 1,3-Dichlorobenzene	146	14.706	14.706	(0.997)	9683	12.5000	12.50
95 p-Isopropyl Toluene	119	14.637	14.637	(0.992)	19987	12.5000	12.50
96 1,4-Dichlorobenzene	146	14.775	14.775	(1.001)	9156	12.5000	12.50
97 Benzyl Chloride	91	14.843	14.854	(1.007)	5021	12.5000	12.50
98 n-Butyl Benzene	91	14.942	14.942	(1.013)	20162	12.5000	12.50
99 1,2-Dichlorobenzene	146	15.070	15.070	(1.021)	7576	12.5000	12.50
110 1,2-Diethylbenzene	119	15.321	15.321	(1.018)	10080	12.5000	12.50
111 1,2-Dibromo-3-Chloropropane	75	15.681	15.681	(1.043)	564	12.5000	12.50(M)
112 1,2,4-Trichlorobenzene	180	16.369	16.379	(1.111)	5504	12.5000	12.50
113 Hexachlorobutadiene	225	16.449	16.449	(1.116)	3907	12.5000	12.50
114 Naphthalene	128	16.545	16.545	(1.129)	6324	12.5000	12.50
115 1,2,3-Trichlorobenzene	180	16.931	16.931	(1.145)	4174	12.5000	12.50
M 116 1,2-Dichloroethene (total)	96				10912	25.0000	25.00
M 117 Xylene (total)	106				25015	12.5000	39.82

Rmm 2/26/2

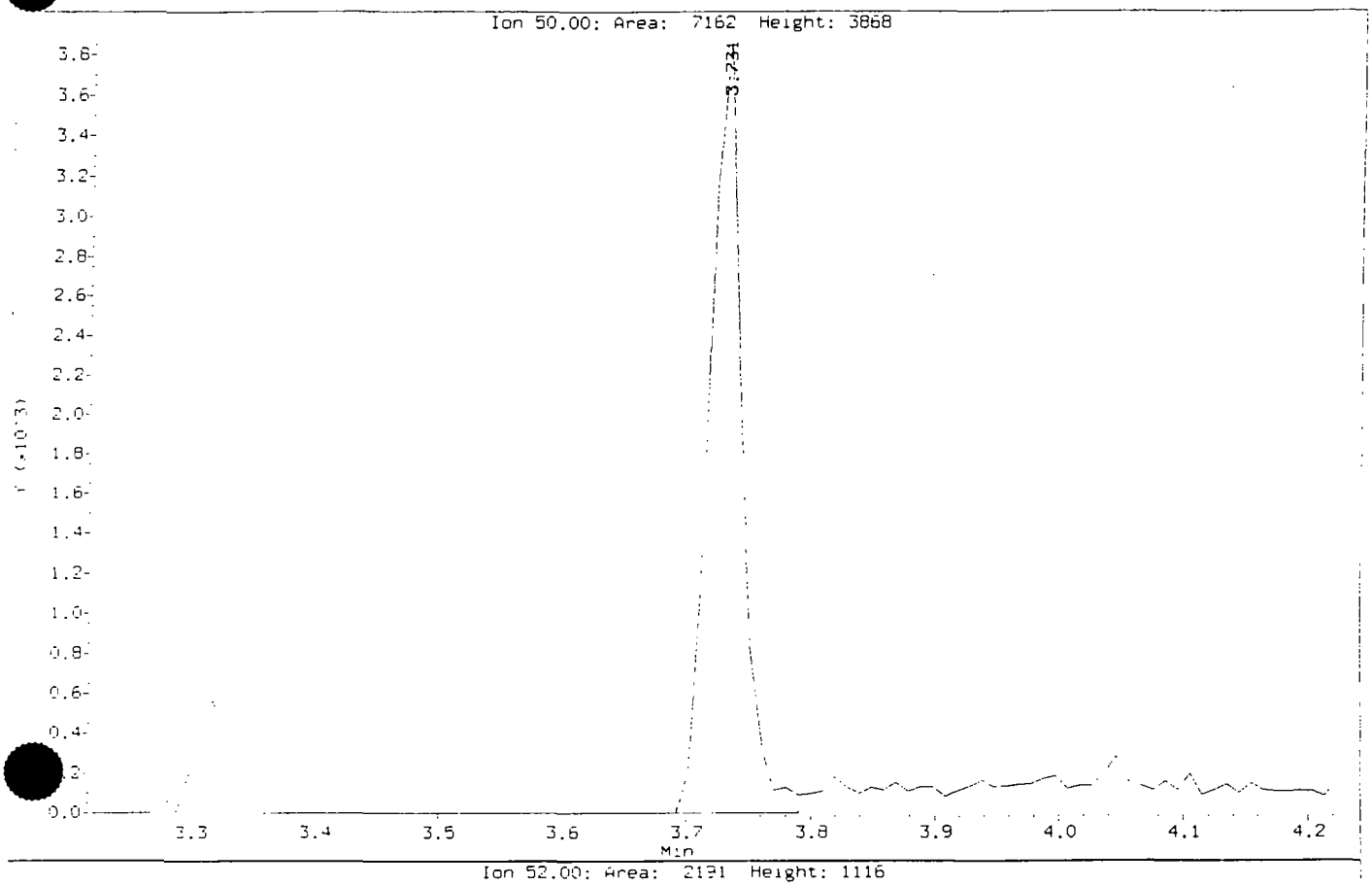
Data File: /chem/5972hp73.i/DF020222B73.b/CT020222B73.d
Report Date: 26-Feb-2002 09:30

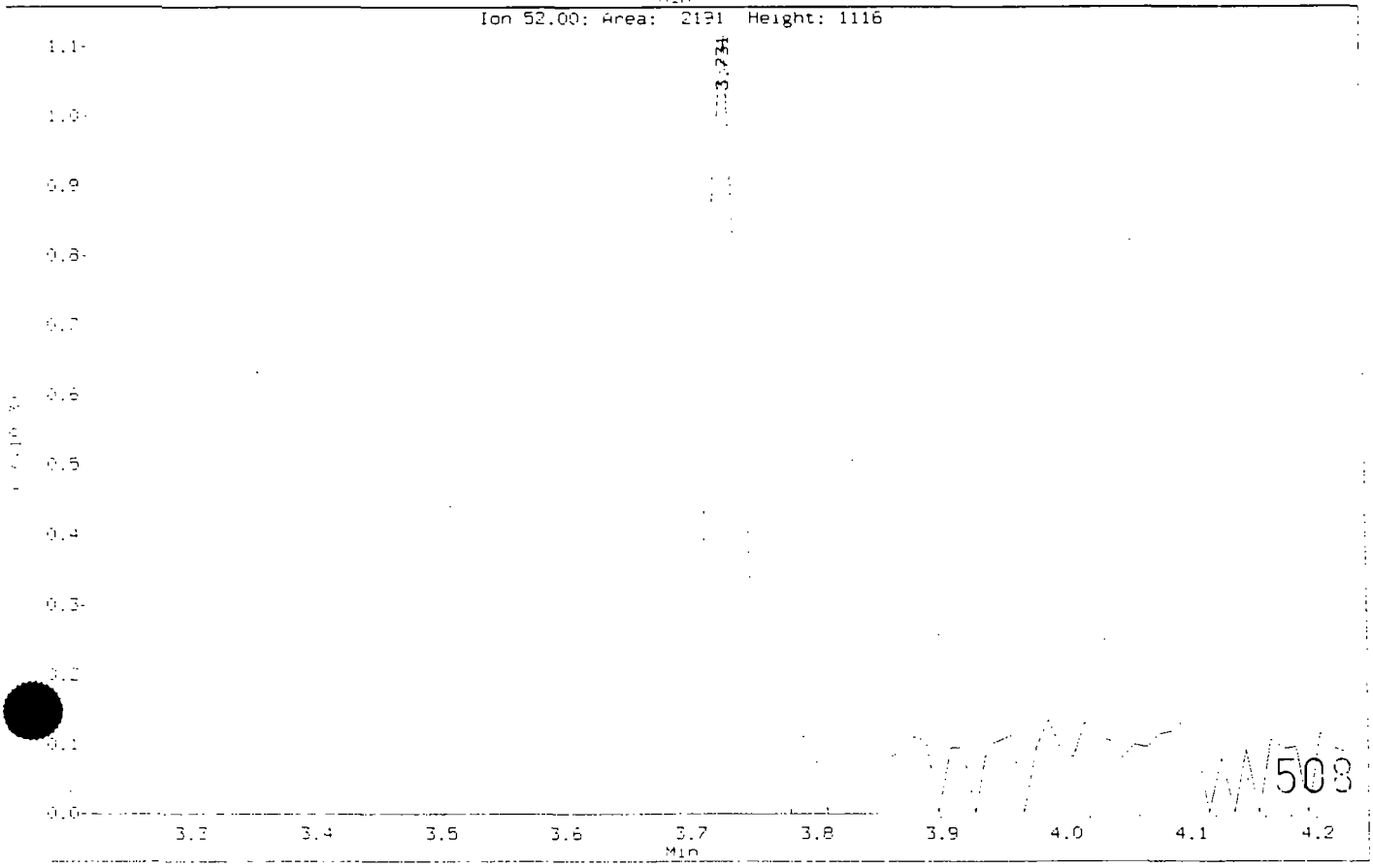
Flag Legend

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

Data File: /chem/5972hp73.i/DF020222B73.b/CT020222B73.d
Injection Date: 22-FEB-2002 20:21
Instrument: 5972hp73.i
Client Sample ID: VSTD0.5

ound: Chloromethane
Number: 74-87-3





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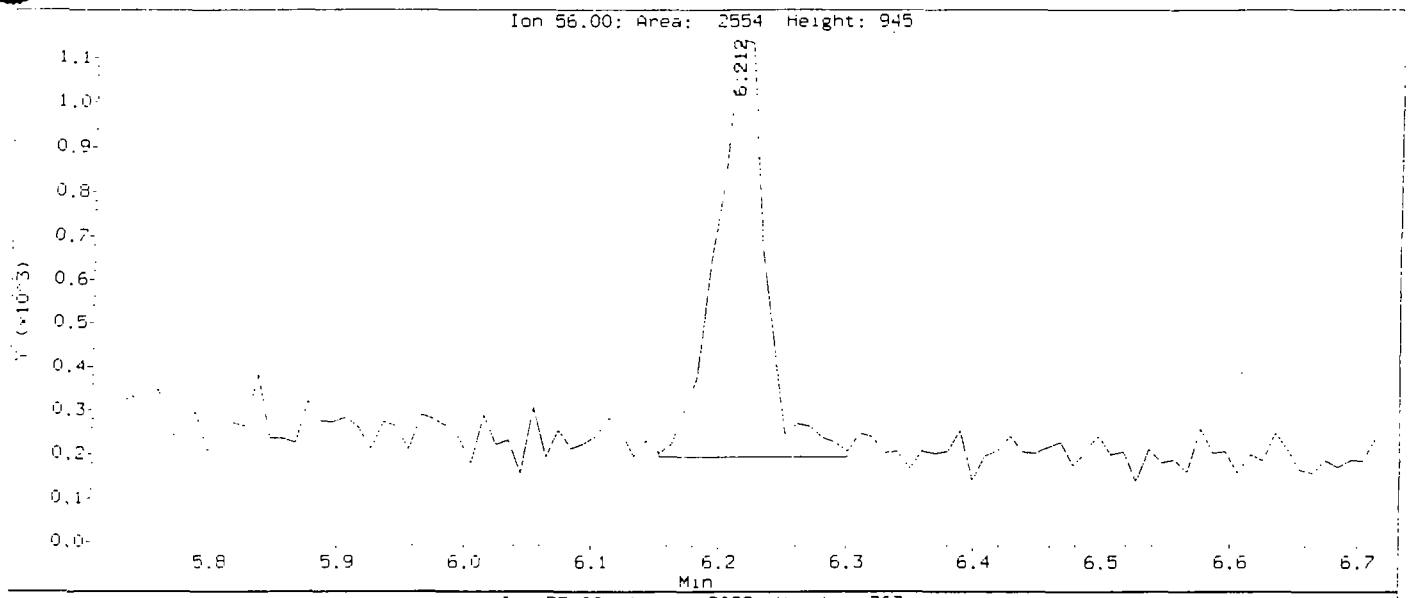
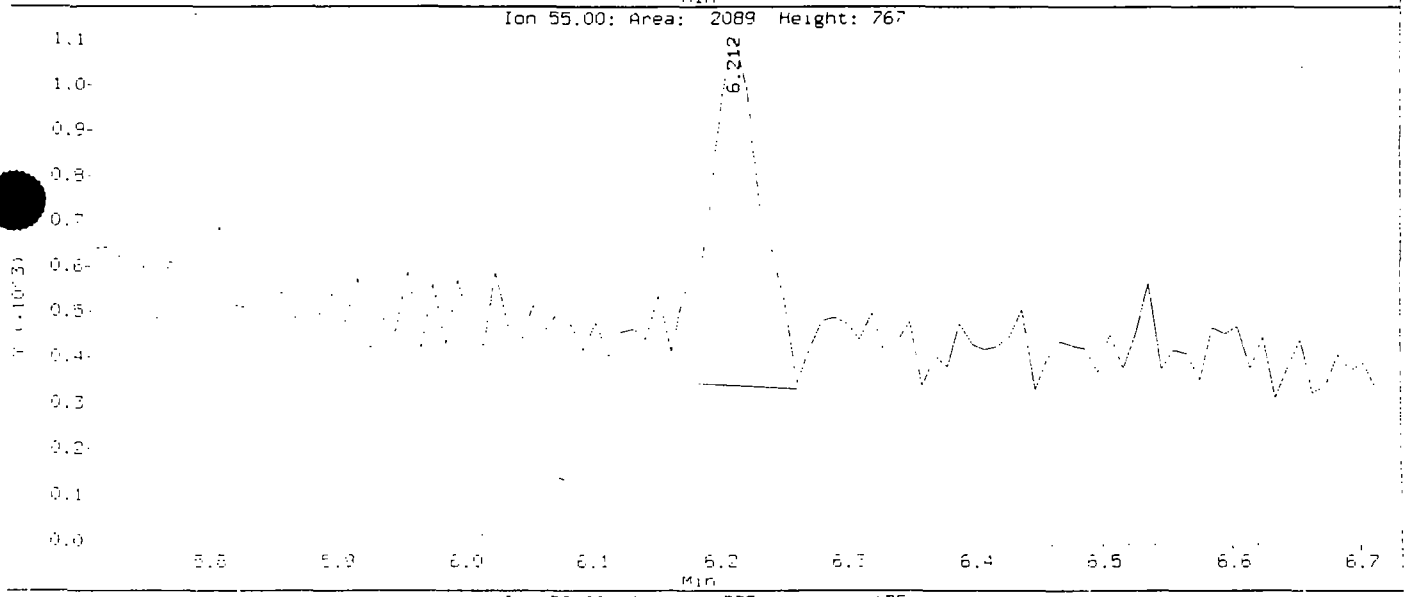
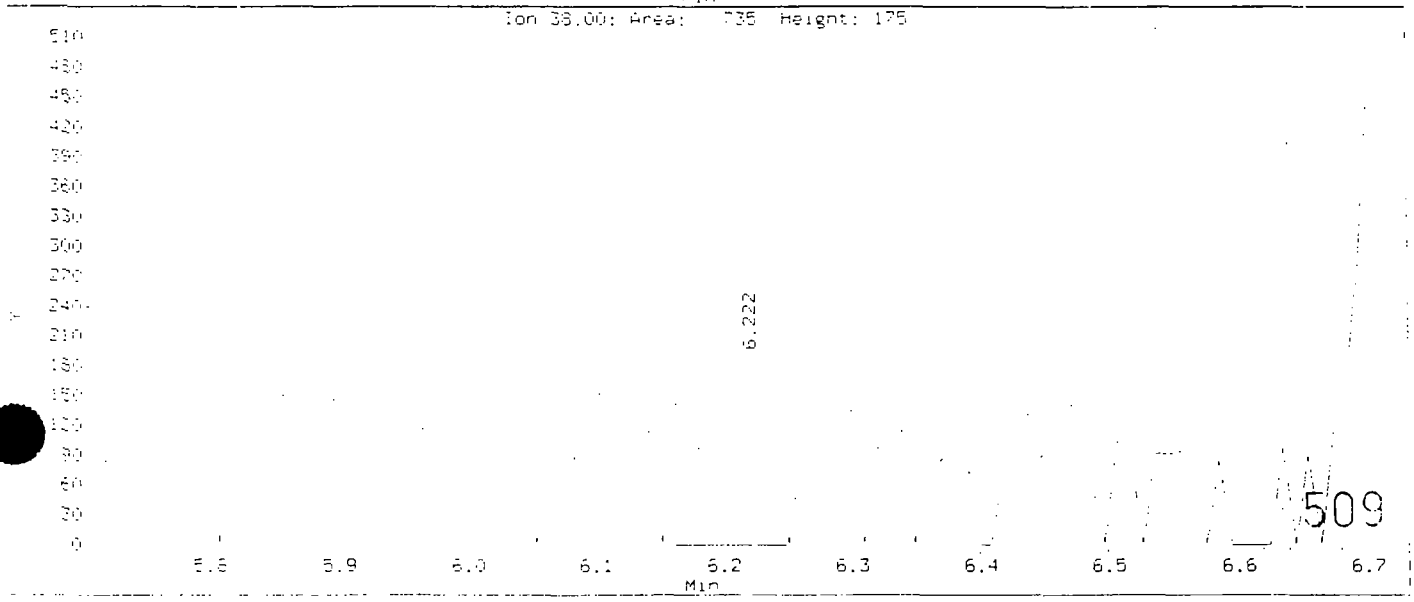
Injection Date: 22-FEB-2002 20:21
Instrument: 5972hp73.i
Client Sample ID: VSTD0.5

mpound: Acrolein
S Number: 107-02-8

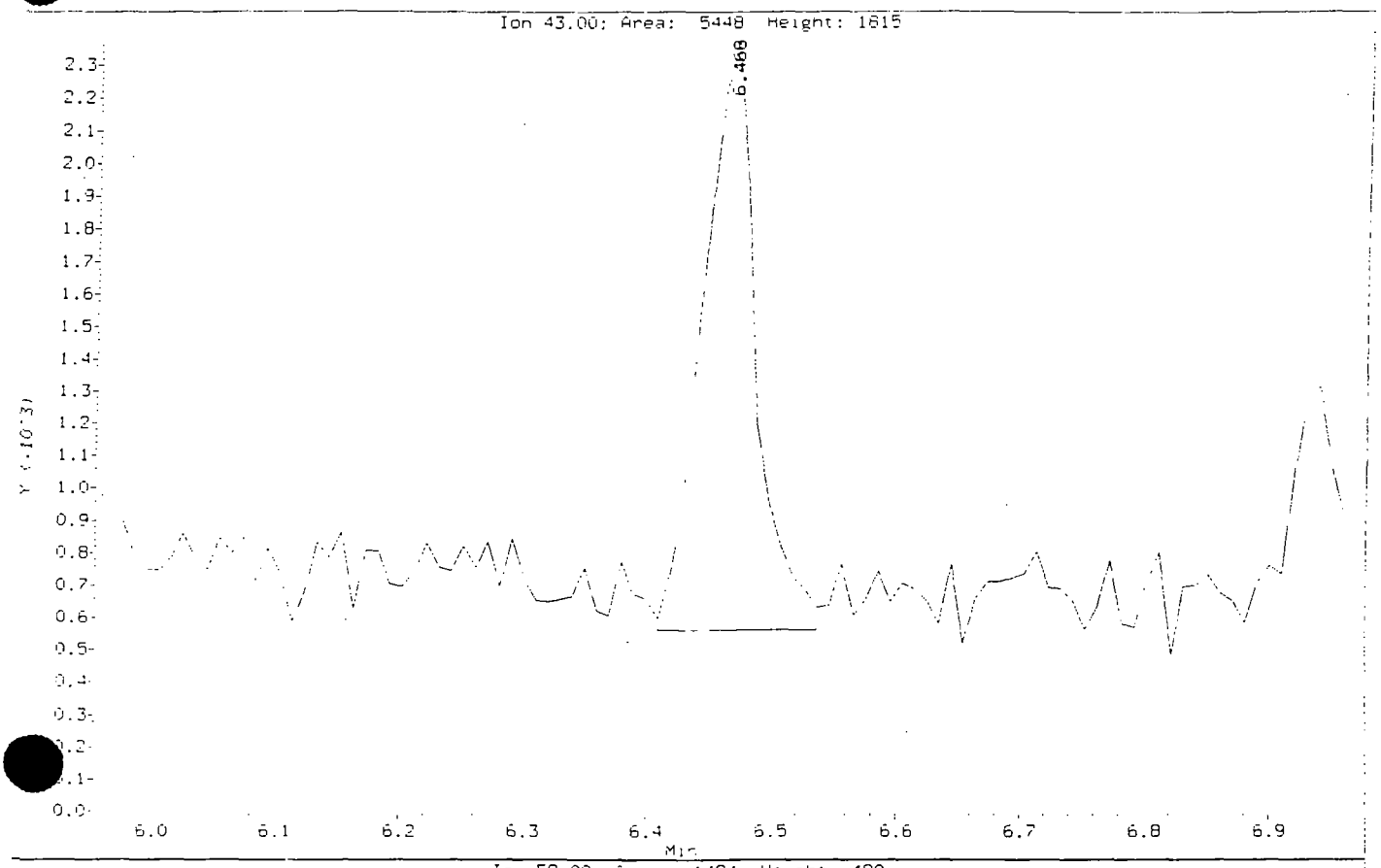


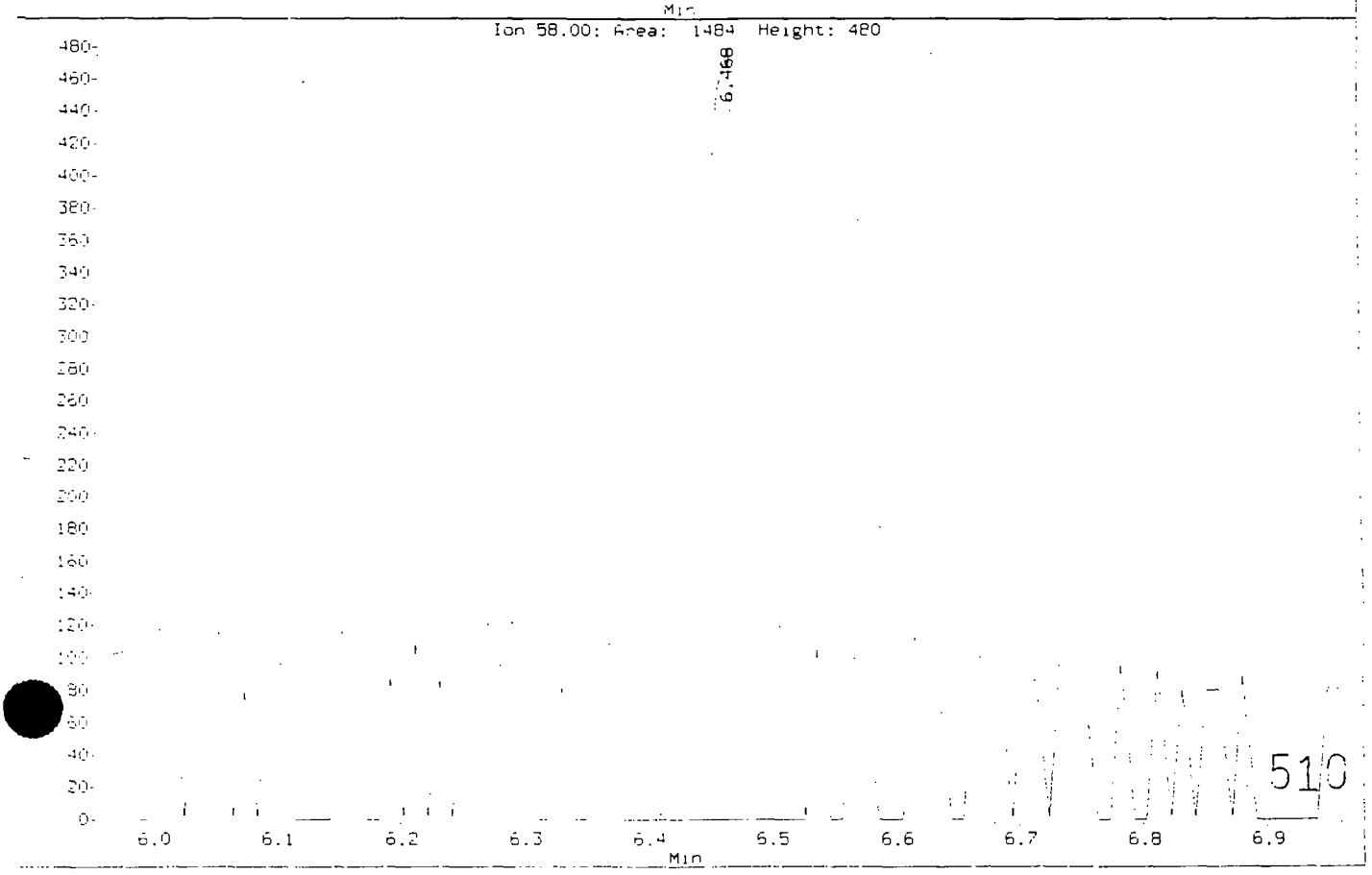




Data File: /chem/5972hp73.i/DF020222B73.b/CT020222B73.d
Injection Date: 22-FEB-2002 20:21
Instrument: 5972hp73.i
Client Sample ID: VSTD0.5

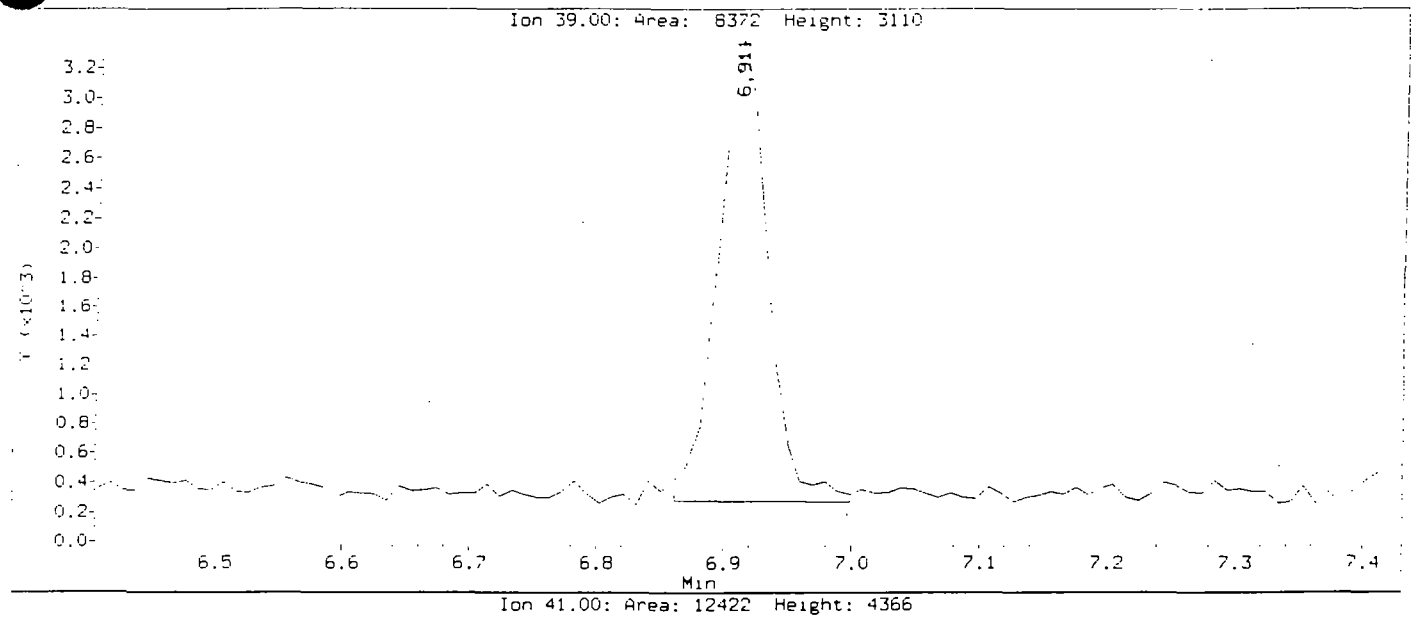
pound: Acetone
Number: 67-64-1

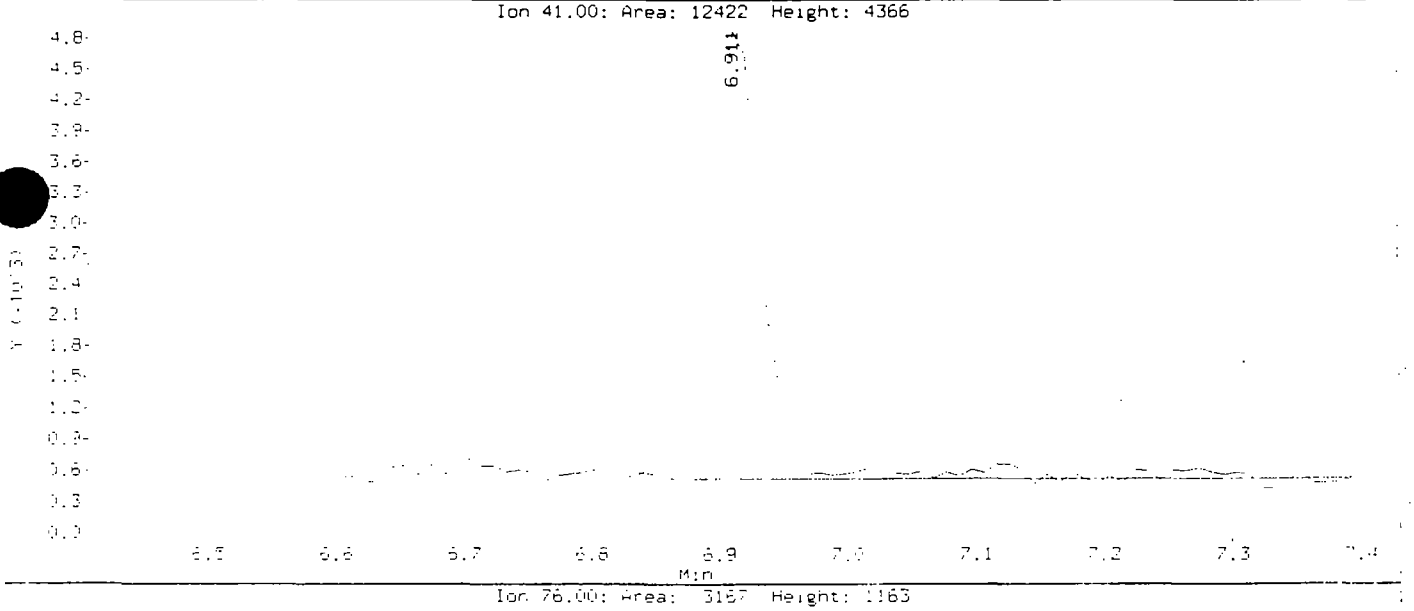


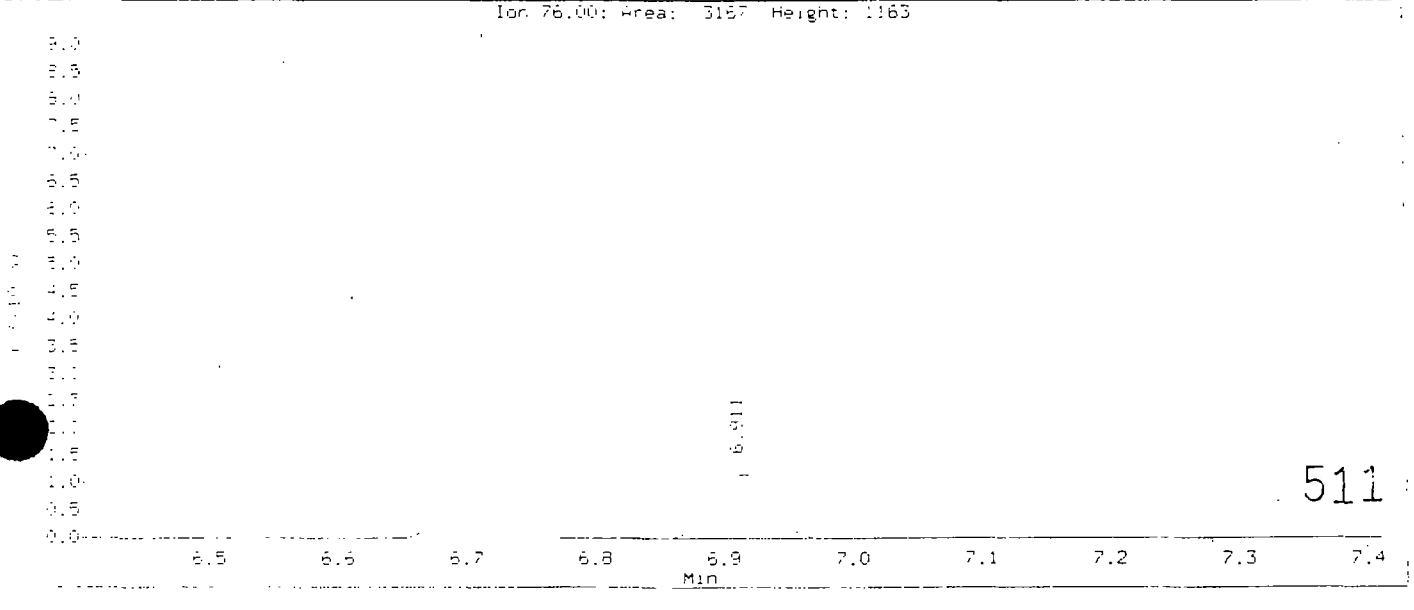


Data File: /chem/5972hp73.i/DF020222B73.b/CT020222B73.d
Injection Date: 22-FEB-2002 20:21
Instrument: 5972hp73.i
Client Sample ID: VSTD0.5

mpound: 3-Chloropropene
Number: 107-05-1

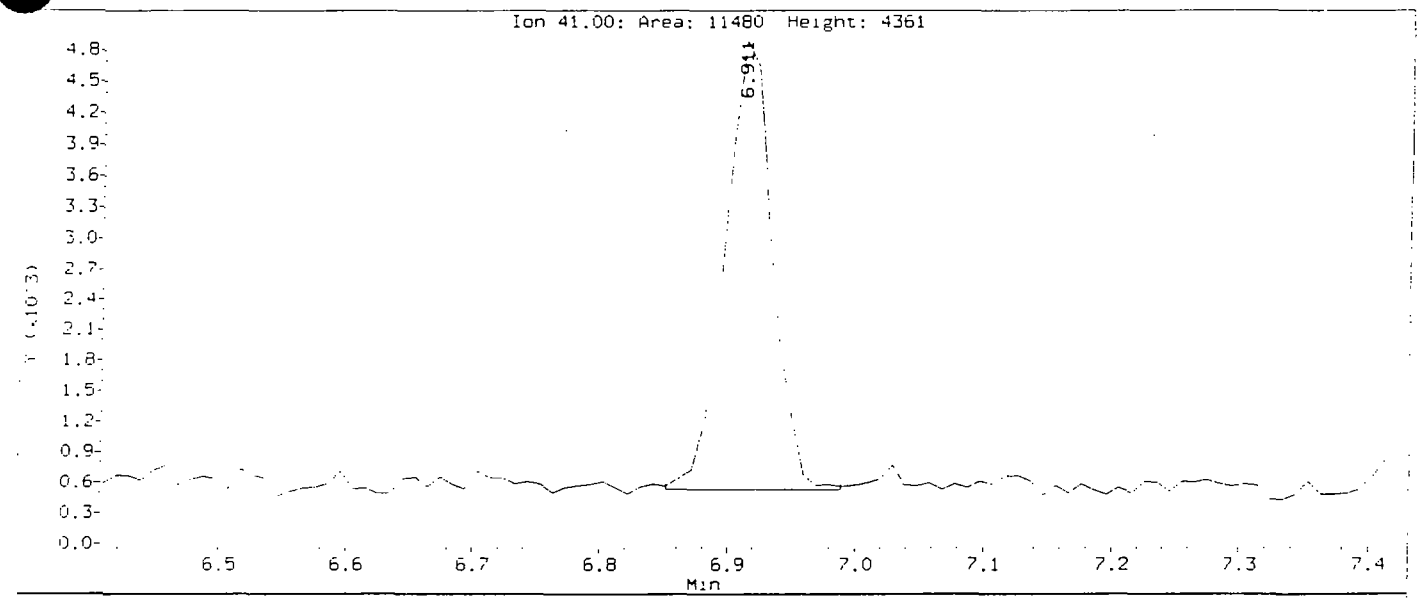


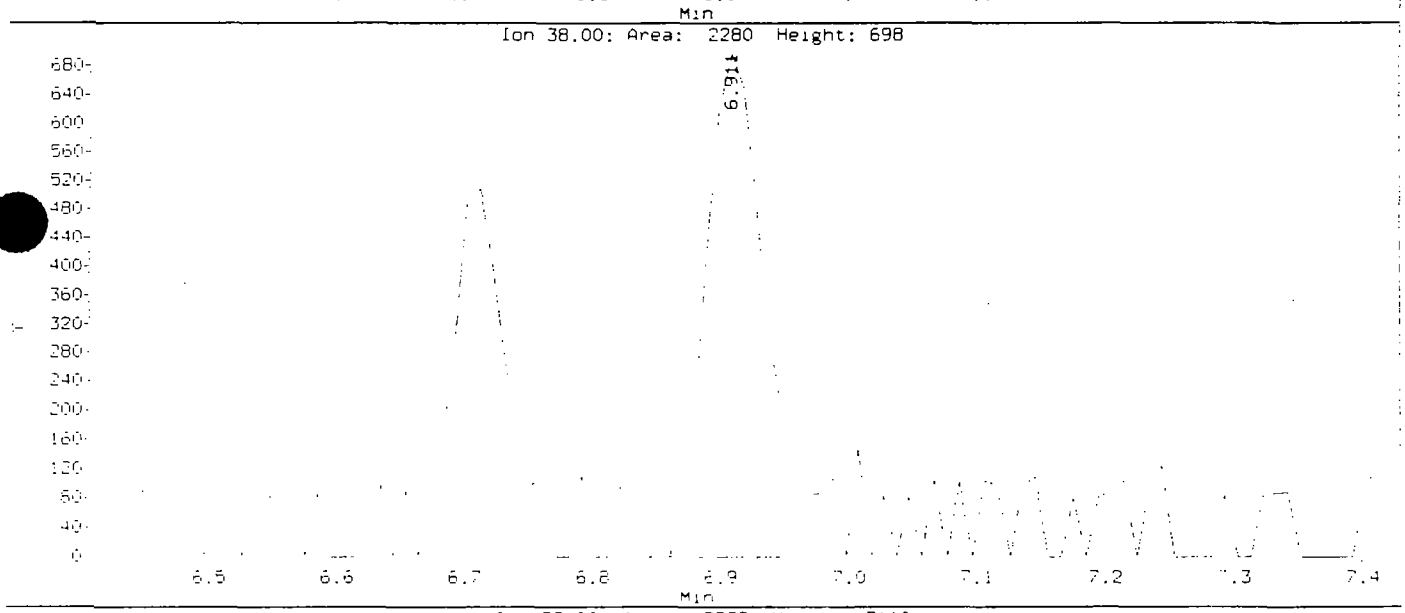


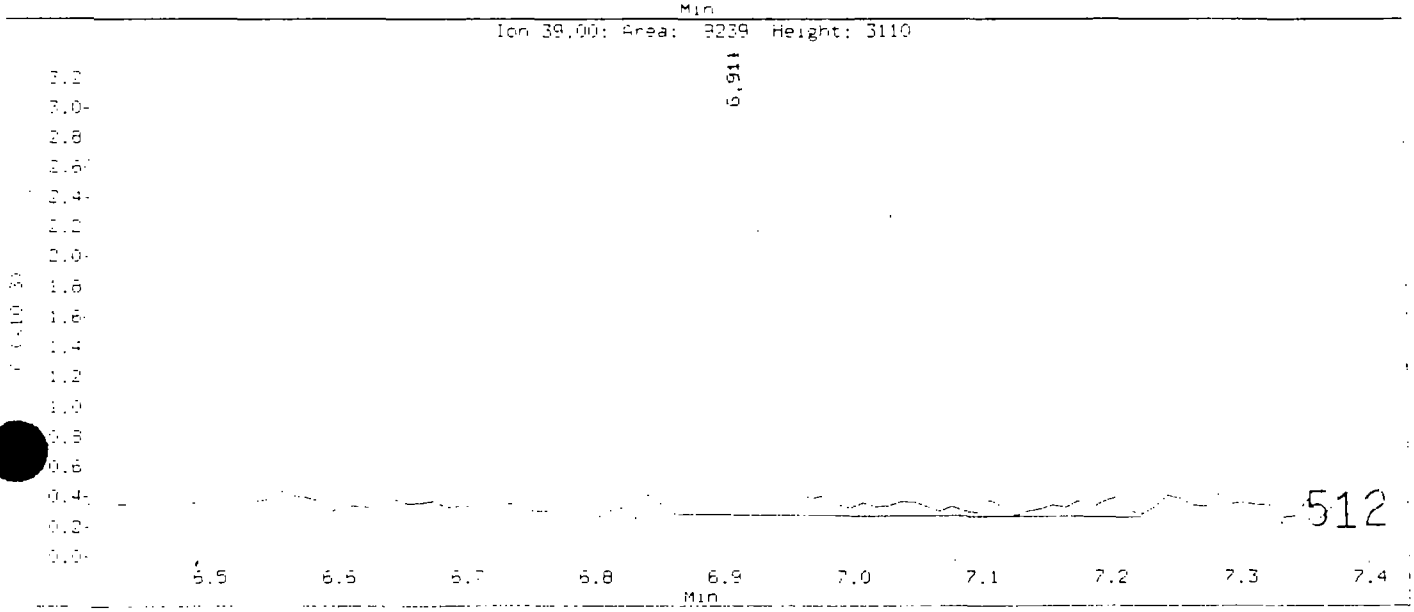


Data File: /chem/5972hp73.i/DF020222B73.b/CT020222B73.d
Injection Date: 22-FEB-2002 20:21
Instrument: 5972hp73.i
Client Sample ID: VSTD0.5

mpound: Acetonitrile
Number: 75-05-8







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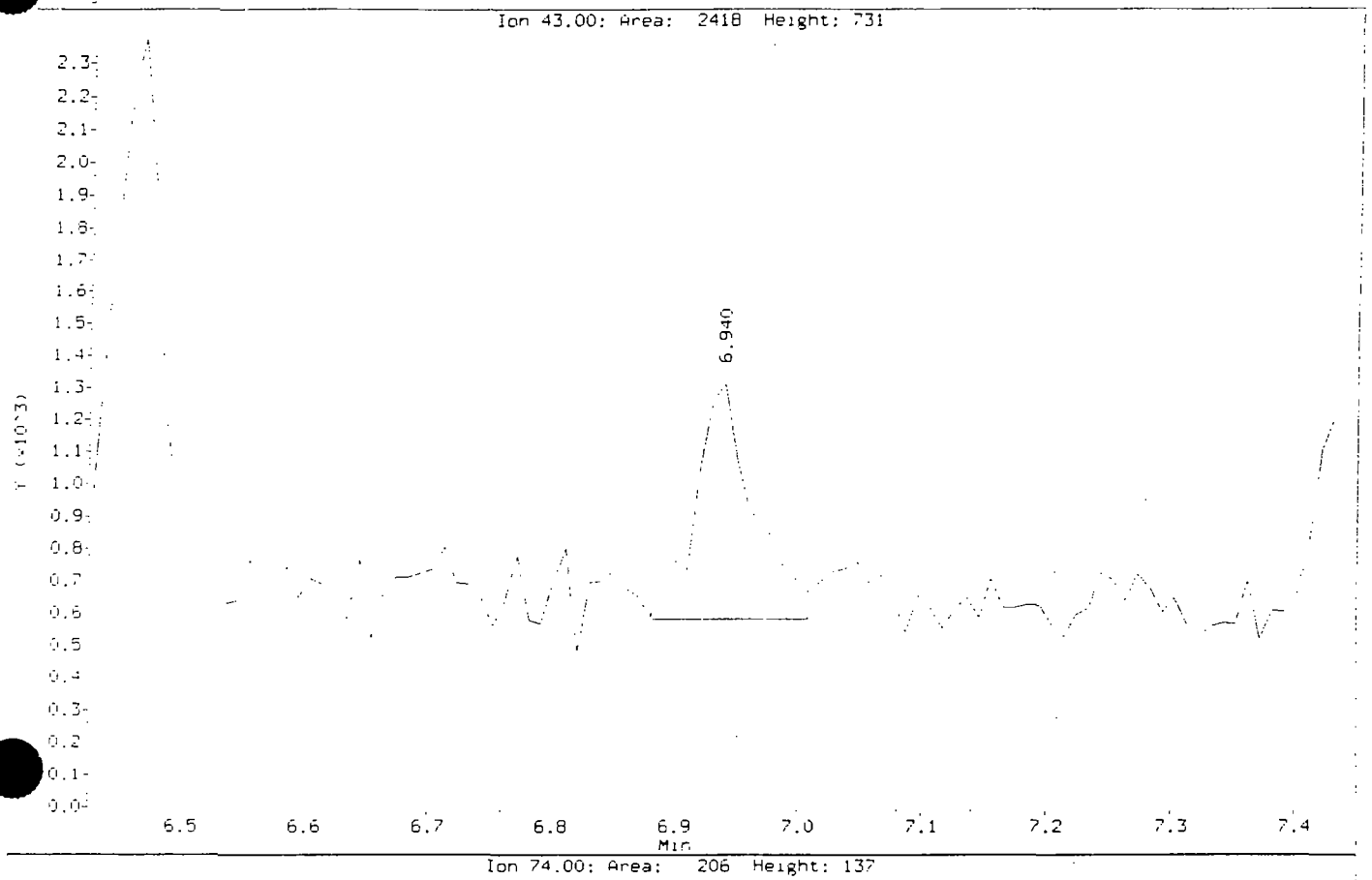
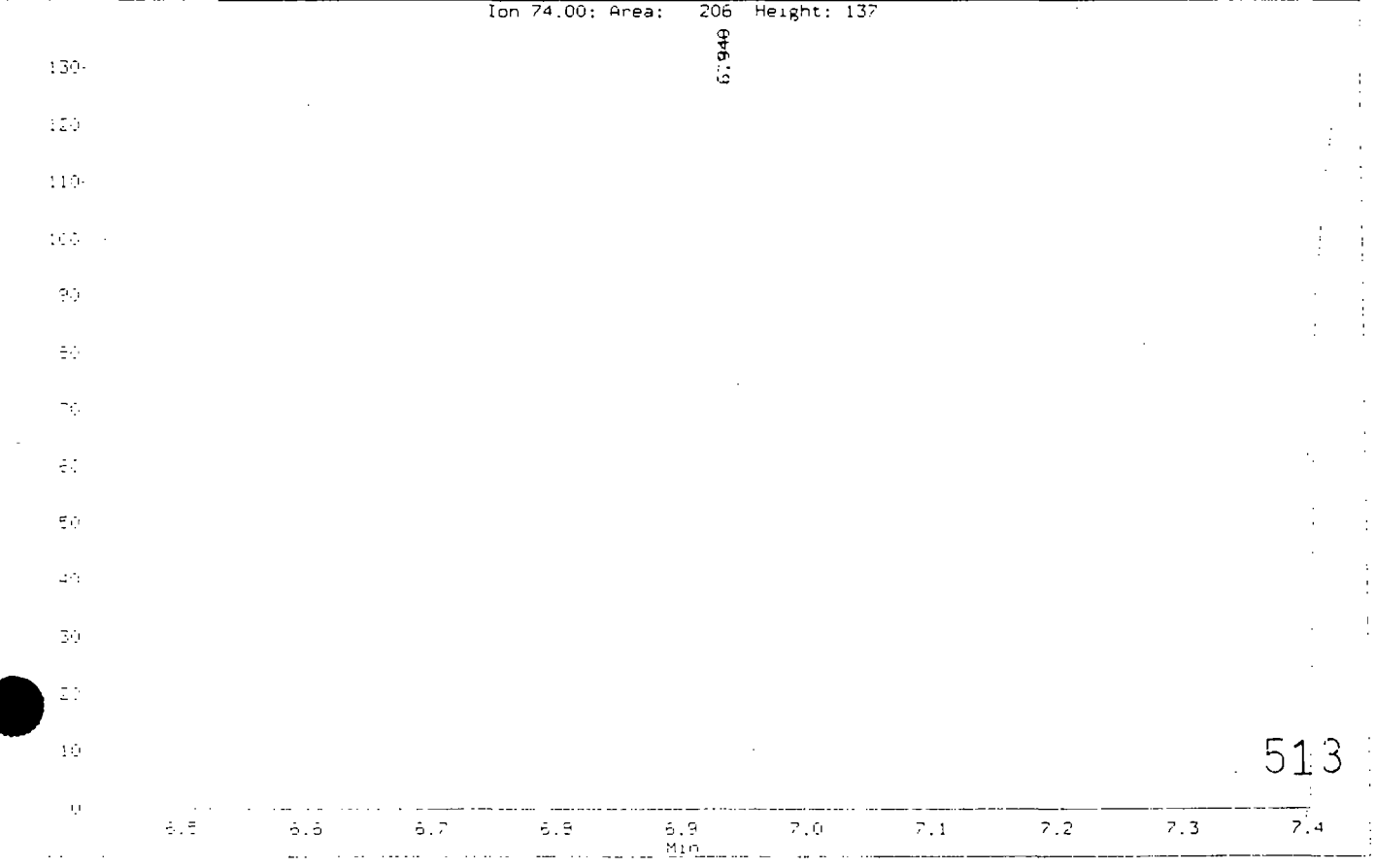
Injection Date: 22-FEB-2002 20:21
Instrument: 5972hp73.i
Client Sample ID: VSTD0.5

Compound: Methyl acetate
CAS Number: 79-20-9





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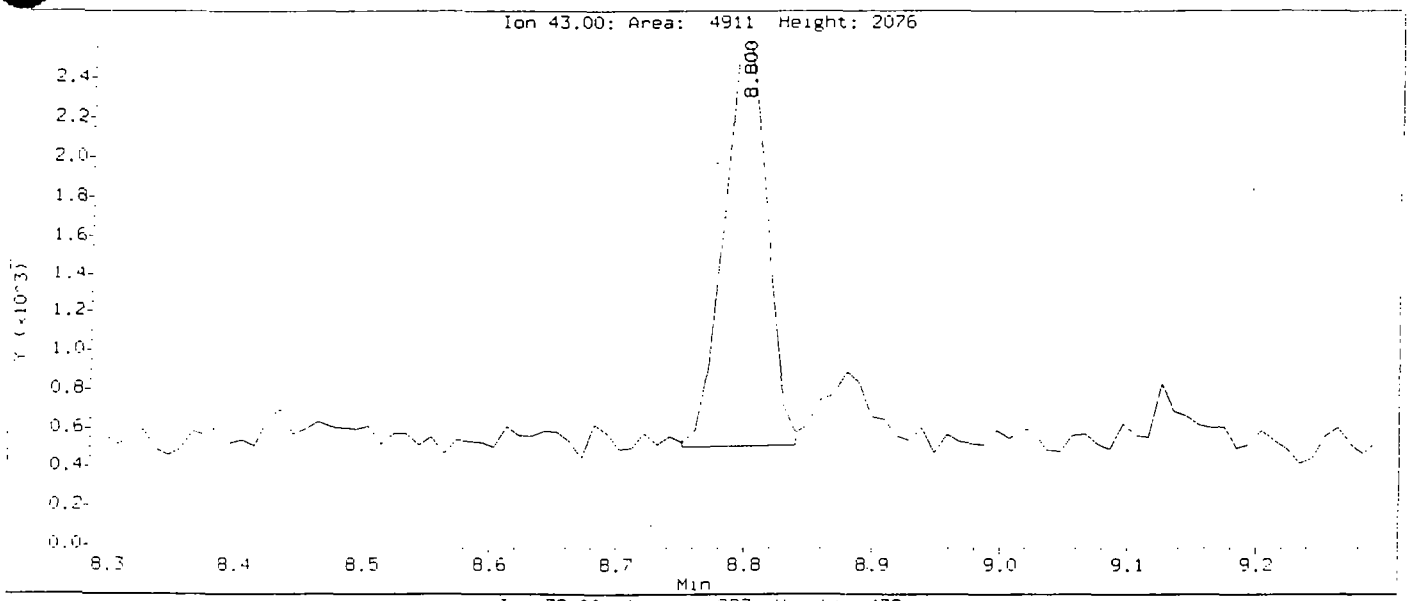
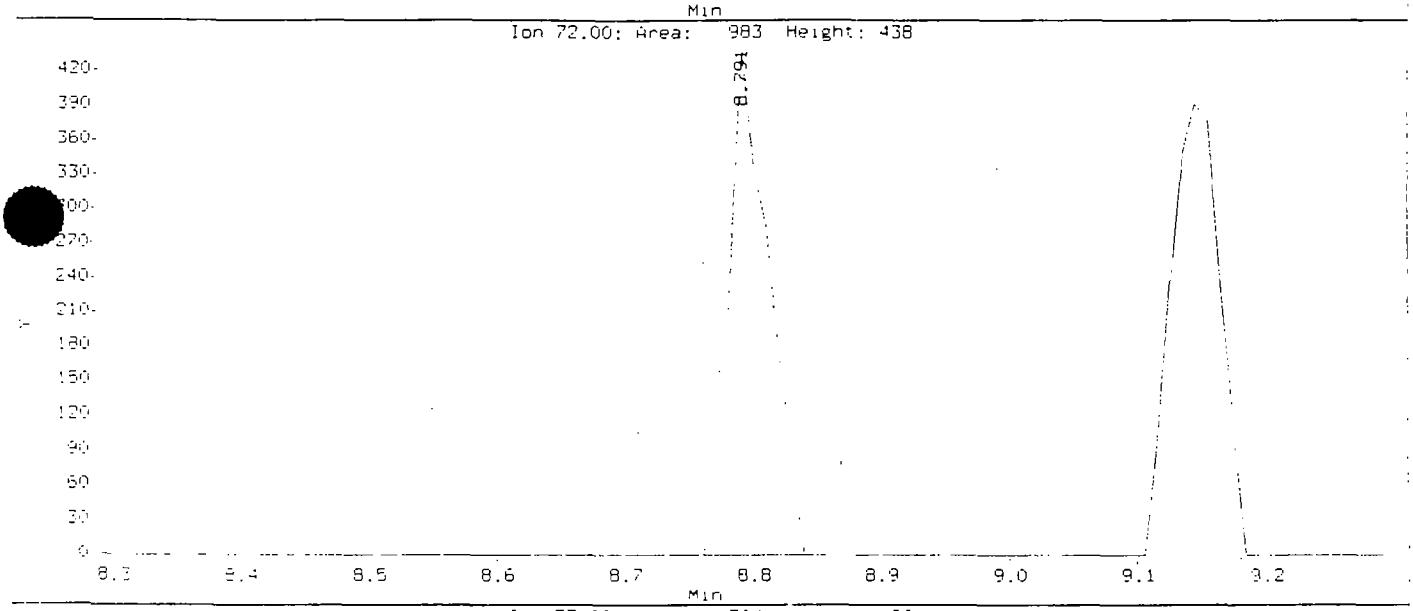
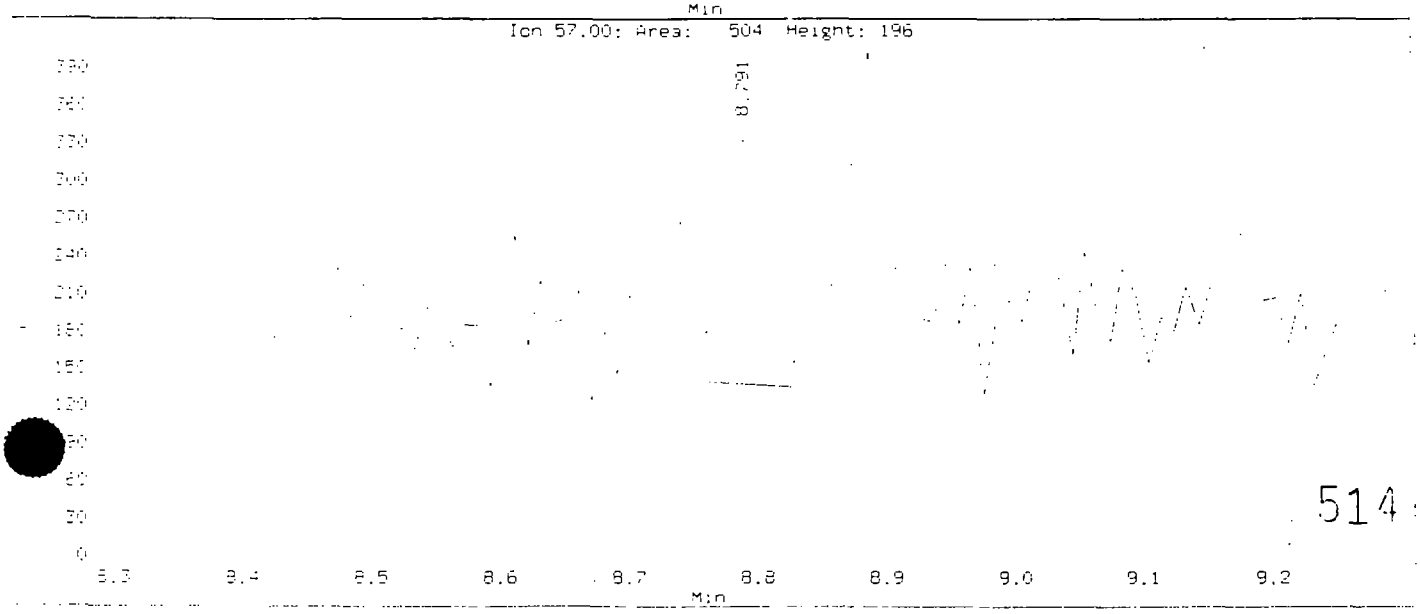
Injection Date: 22-FEB-2002 20:21
Instrument: 5972hp73.1
Client Sample ID: VSTD0.5

pound: 2-butanone
Number: 78-93-3



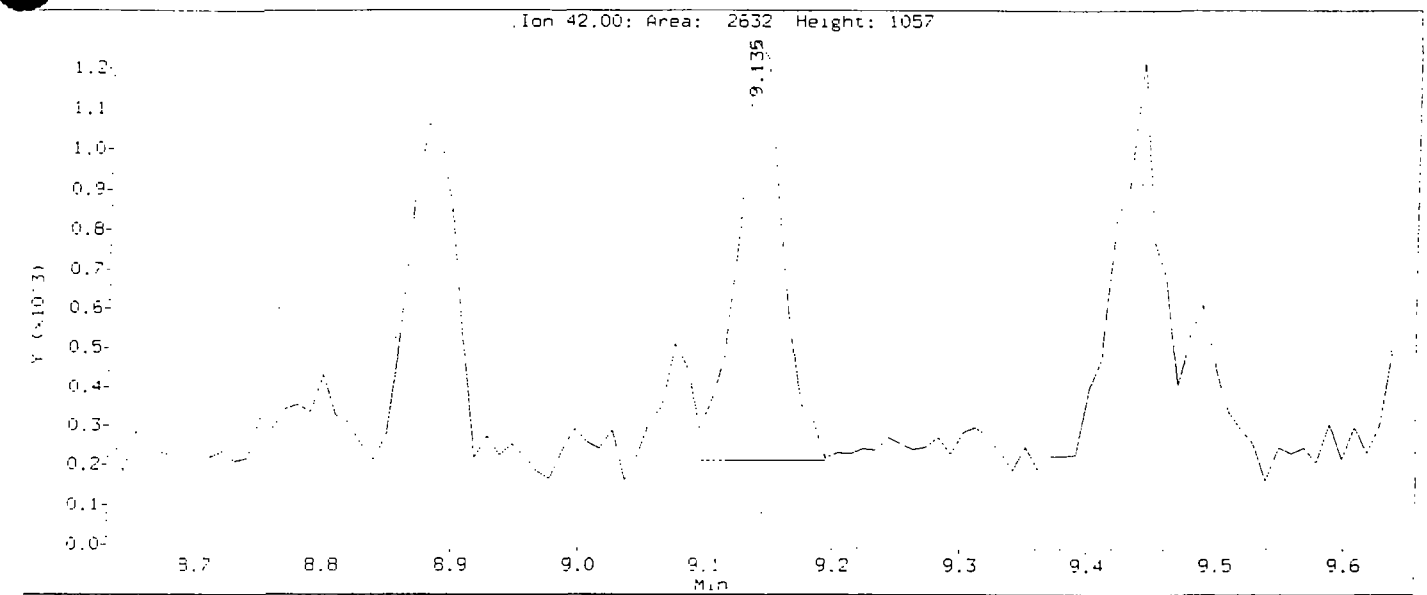


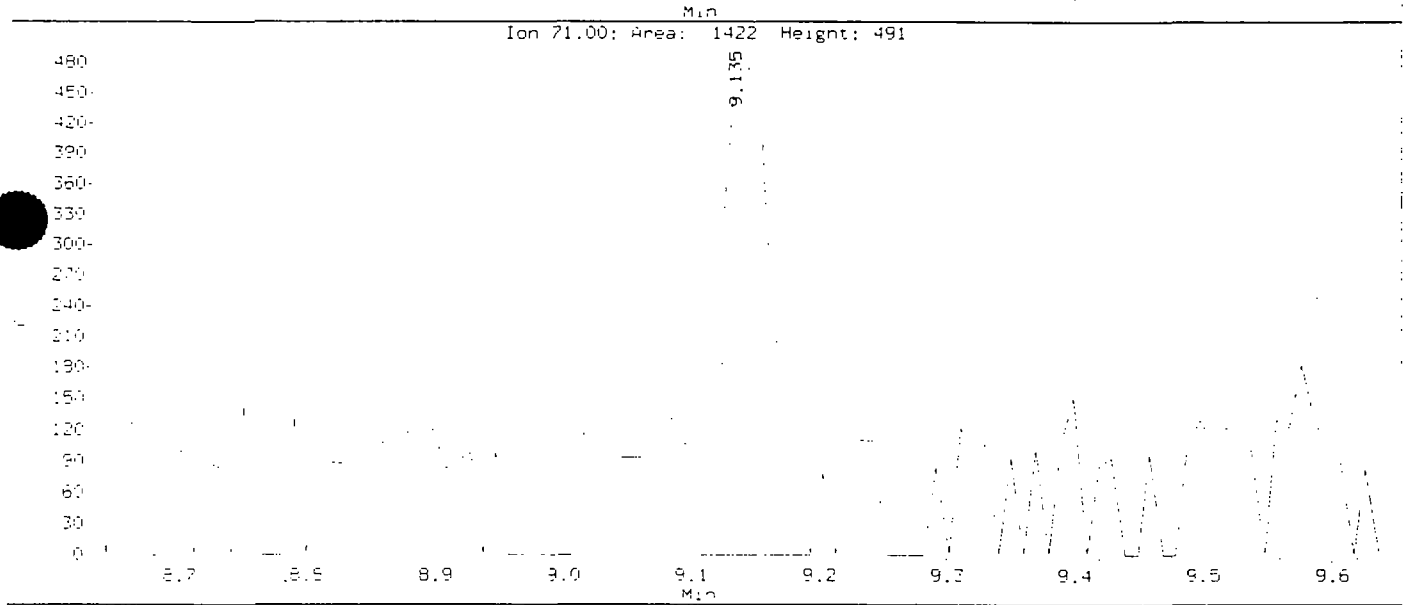


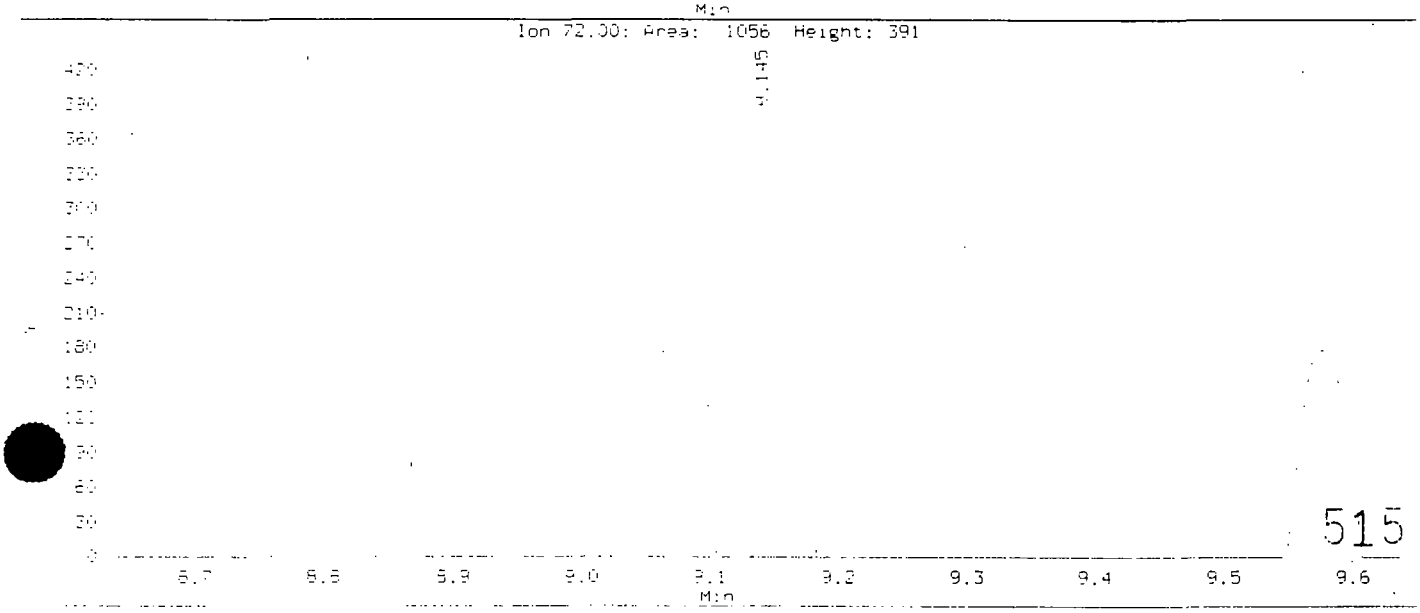
514

Data File: /chem/5972hp73.1/DF020222B73.b/CT020222B73.d
Injection Date: 22-FEB-2002 20:21
Instrument: 5972hp73.1
Client Sample ID: VSTD0.5

Compound: Tetrahydrofuran
CAS Number: 109-99-9

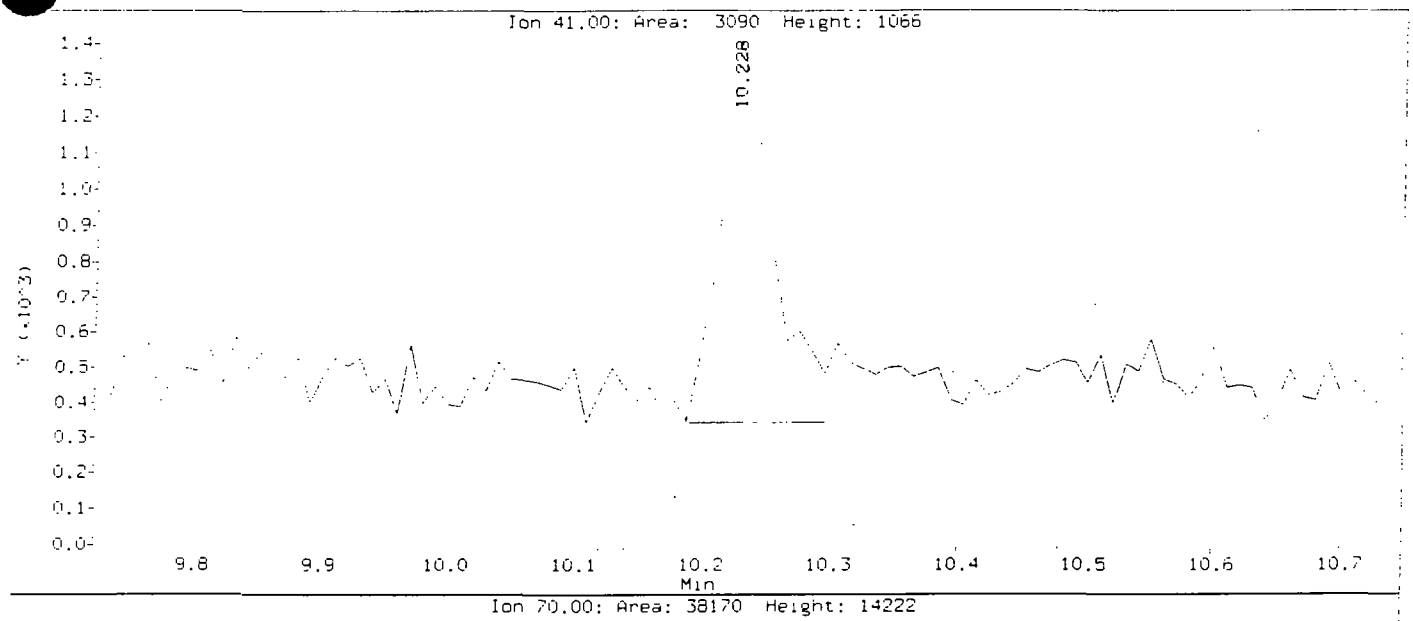


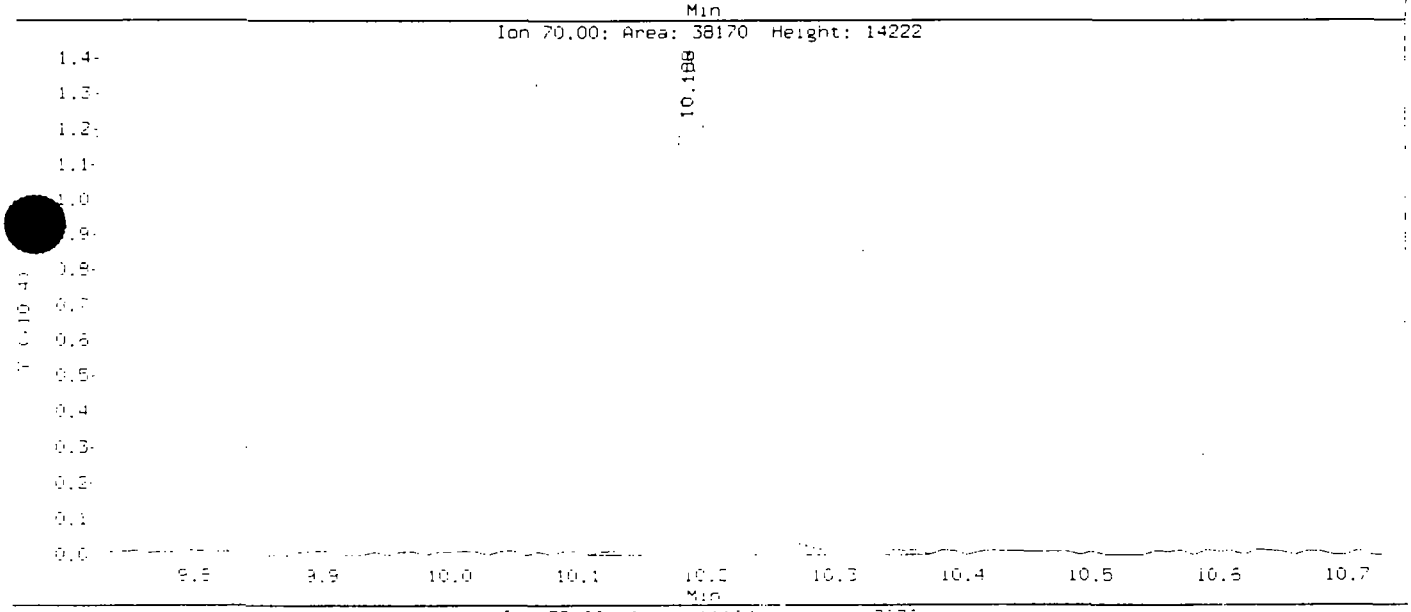


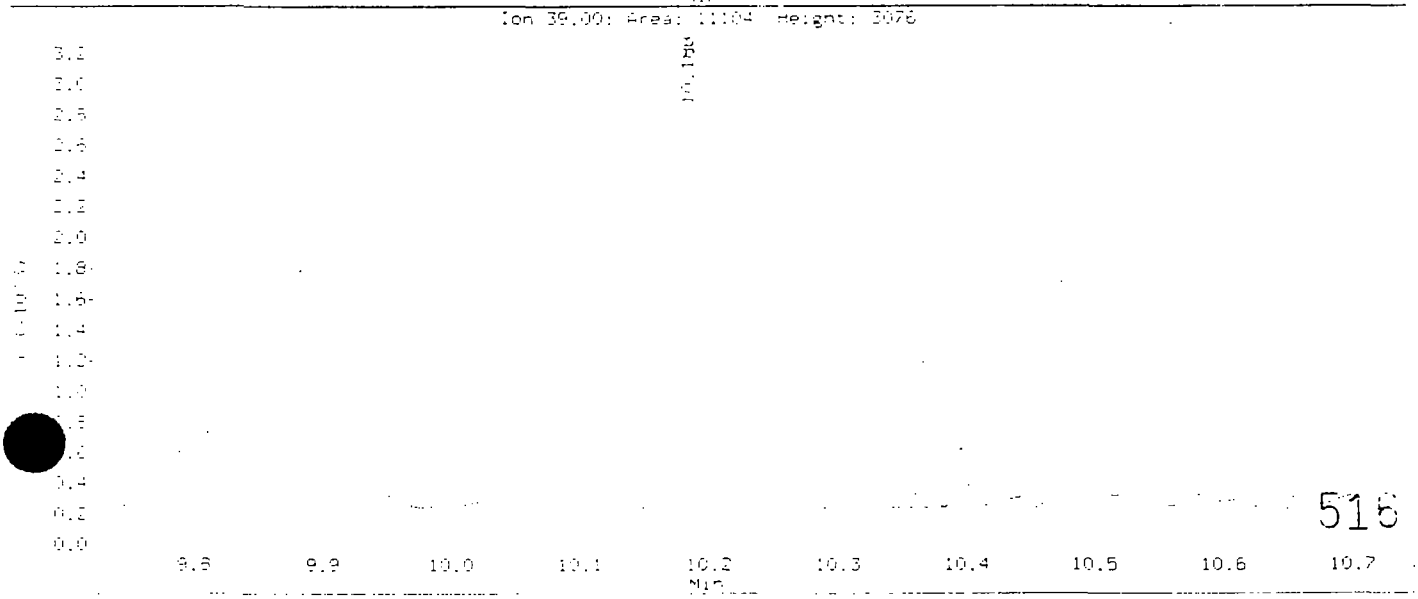


Data File: /chem/5972hp73.1/DF020222B73.b/CT020222B73.d
Injection Date: 22-FEB-2002 20:21
Instrument: 5972hp73.1
Client Sample ID: VSTD0.5

Compound: Crotonaldehyde
CAS Number: 4170-30-3

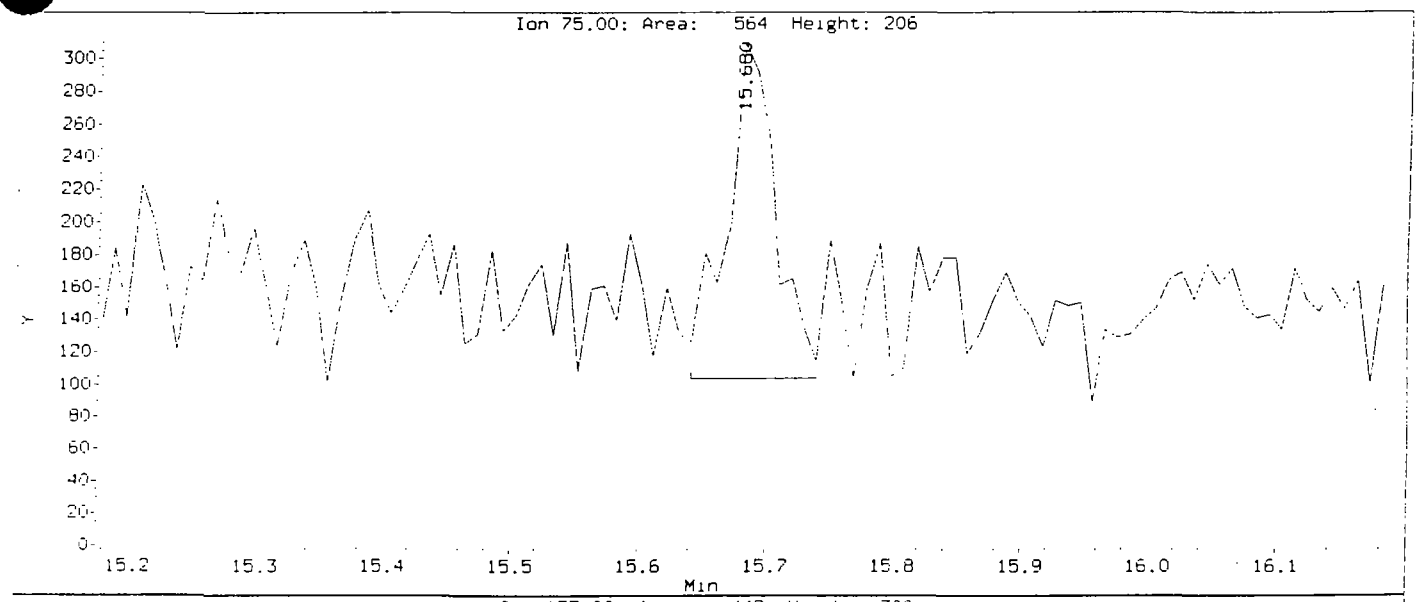


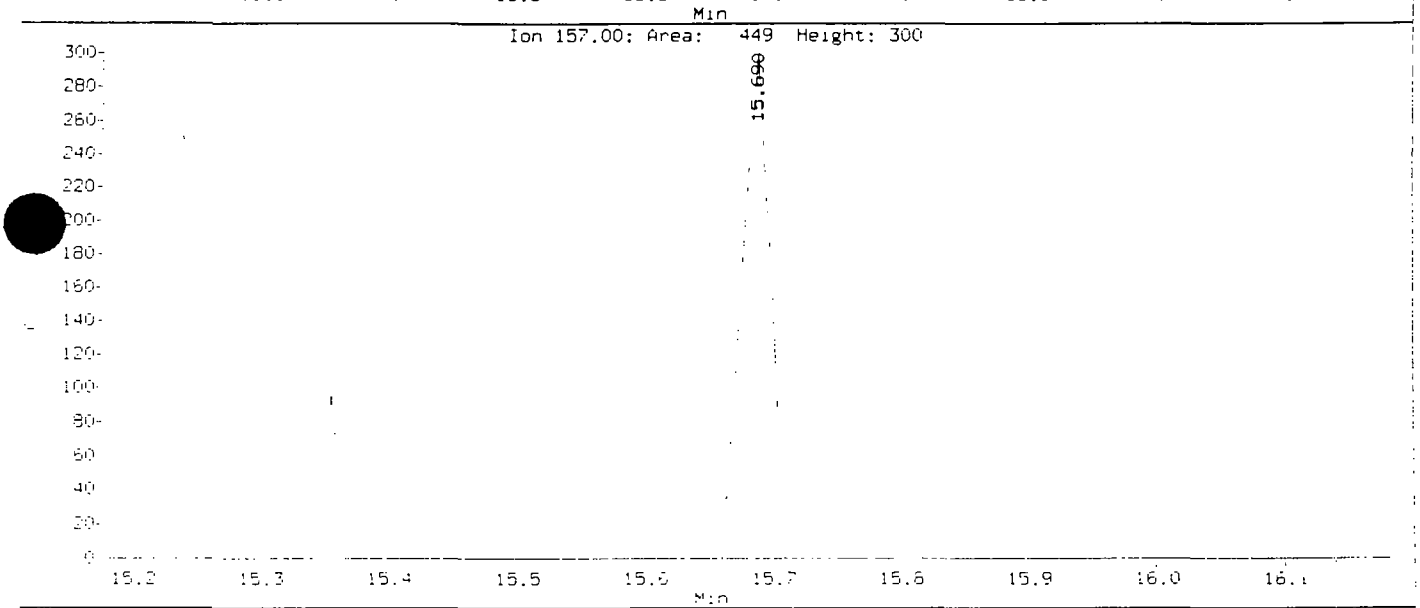


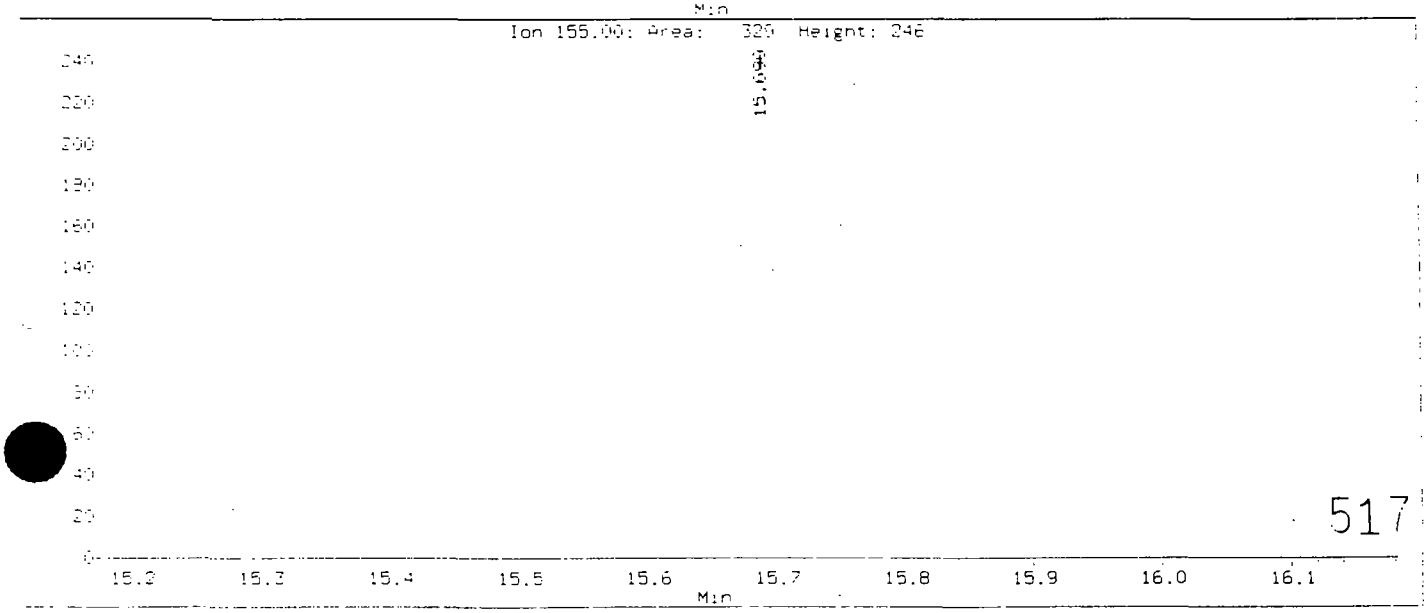


Data File: /chem/5972hp73.i/DF020222B73.b/CT020222B73.d
Injection Date: 22-FEB-2002 20:21
Instrument: 5972hp73.i
Client Sample ID: VSTD0.5

pound: 1.2-Dibromo-3-Chloropropane
Number: 96-12-8



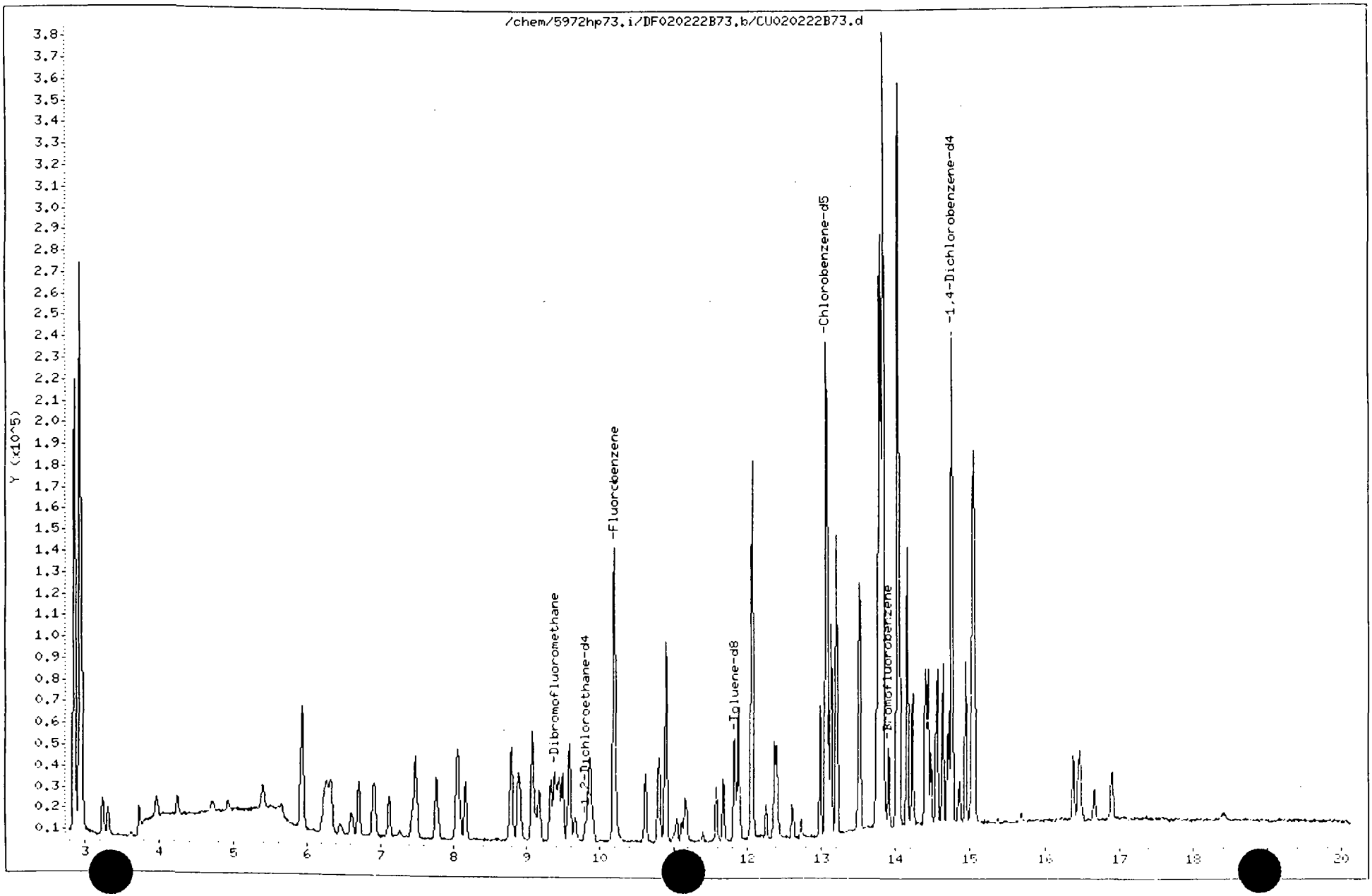




Data File: /chem/5972hp73.i/DF020222B73.b/CU020222B73.d
Date : 22-FEB-2002 20:47
Client ID: VSTD001
Sample Info:
Purge Volume: 25.0
Column phase: ZB-624

Instrument: 5972hp73.i

Operator: 2323
Column diameter: 0.32



Data File: /chem/5972hp73.i/DF020222B73.b/CU020222B73.d
Report Date: 26-Feb-2002 09:30

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF020222B73.b/CU020222B73.d
Lab Smp Id: VSTD001 Client Smp ID: VSTD001
Inj Date : 22-FEB-2002 20:47
Operator : 2323 Inst ID: 5972hp73.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp73.i/DF020222B73.b/W8260-B-25MLv6.m
Meth Date : 26-Feb-2002 09:30 mead Quant Type: ISTD
Cal Date : 22-FEB-2002 20:47 Cal File: CU020222B73.d
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vc	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	10.191	10.189	(1.000)	147542	125.000	
* 2 Chlorobenzene-d5	117	13.065	13.063	(1.000)	112841	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.748	14.746	(1.000)	58693	125.000	
4 Dibromofluoromethane	113	3.174	3.172	(0.320)	3019	25.0000	25.43
5 1,2-Dichloroethane-d4	65	3.417	3.415	(1.062)	7695	25.0000	24.83
* 6 Toluene-d8	99	11.425	11.423	(1.000)	30204	25.0000	24.21
7 Bromochlorobenzene	35	13.211	13.209	(0.943)	11474	25.0000	24.94
8 Dichlorodifluoromethane	85	3.121	3.119	(0.326)	14802	25.0000	25.54
9 Chloromethane	50	3.724	3.722	(0.365)	14541	25.0000	25.24
10 Vinyl Chloride	62	3.971	3.969	(0.390)	11372	25.0000	25.61
11 Bromomethane	94	4.713	4.711	(0.463)	5510	25.0000	27.21
12 Chloroethane	64	4.915	4.913	(0.482)	5479	25.0000	24.53
13 Trichlorofluoromethane	101	5.399	5.397	(0.530)	15184	25.0000	25.77
14 Diethylether	74	5.919	5.917	(0.581)	27552	250.000	263.4
15 Acrolein	56	6.215	6.213	(0.610)	5690	250.000	264.0
16 1,1-Dichloroethene	96	6.323	6.321	(0.621)	13772	25.0000	24.69

RMM 2/26/2

Data File: /chem/5972hp73.i/DF020222B73.b/CU020222B73.d
Report Date: 26-Feb-2002 09:30

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
17 1,1,1-trichloro-2,2,2-trifluo	117	6.234	6.242	(0.612)	7201	25.0000	25.47
20 1,1,2-trichloro-1,2,2-trifluo	85	6.274	6.281	(0.616)	8027	25.0000	24.64
16 Acetone	43	6.461	6.458	(0.634)	8404	125.000	109.1
19 Iodomethane	142	6.618	6.616	(0.649)	15941	25.0000	27.[illegible]
21 Carbon disulfide	76	6.707	6.704	(0.658)	43978	25.0000	25.[illegible]
22 3-Chloropropene	39	6.913	6.911	(0.678)	18149	25.0000	26.[illegible]
23 Acetonitrile	41	6.913	6.911	(0.678)	25803	25.0000	26.51
163 Methyl acetate	43	6.933	6.931	(0.680)	4266	25.0000	23.49(M) 2
24 Methylene Chloride	84	7.120	7.118	(0.699)	10304	25.0000	24.86
25 Acrylonitrile	53	7.494	7.492	(0.735)	15142	250.000	254.5
26 tert-butyl alcohol	59	7.268	7.265	(0.713)	4511	250.000	254.2
27 trans-1,2-Dichloroethene	96	7.484	7.482	(0.734)	11476	25.0000	25.5[illegible]
28 Methyl-tert-butyl ether	73	7.445	7.442	(0.731)	19091	25.0000	25.49
29 n-hexane	57	7.770	7.767	(0.762)	18673	25.0000	24.96
30 1,1-Dichloroethane	63	8.065	8.063	(0.791)	20974	25.0000	26.18
32 Vinyl acetate	43	8.075	8.072	(0.792)	38890	50.0000	52.30
33 Isopropyl ether	45	8.045	8.043	(0.789)	40875	25.0000	25.50
35 2,2-Dichloropropane	77	8.784	8.781	(0.862)	19864	25.0000	24.47
34 cis-1,2-Dichloroethene	96	8.803	8.801	(0.864)	10898	25.0000	25.21
31 Chloroprene	53	8.163	8.161	(0.801)	21729	25.0000	25.63
37 2-butanone	43	8.793	8.791	(0.863)	9973	125.000	126.2
36 Propionitrile	54	8.911	8.909	(0.874)	26009	1250.00	1305
38 Methyl acrylate	55	8.882	8.879	(0.872)	42935	250.000	261.2
39 Methacrylonitrile	41	9.079	9.076	(0.891)	33365	250.000	261.2
40 Bromochloromethane	128	9.108	9.106	(0.894)	4187	25.0000	26.43
42 Chloroform	83	9.177	9.175	(0.901)	20563	25.0000	25.10
41 Tetrahydrofuran	42	9.138	9.135	(0.897)	6102	100.000	107.6
43 1,1,1-Trichloroethane	97	9.394	9.391	(0.922)	19478	25.0000	25.52
45 Pentafluorobenzene	168	9.325	9.322	(0.915)	25038	25.0000	25.86
44 Cyclohexane	84	9.443	9.431	(0.927)	14300	25.0000	25.07
46 1-chlorobutane	56	9.492	9.490	(0.931)	30526	25.0000	25.41
50 Isobutyl alcohol	43	9.669	9.667	(0.949)	9633	1250.00	1288(M) 2
47 1,1-Dichloropropene	75	9.581	9.579	(0.940)	16522	25.0000	26.12
48 Carbon Tetrachloride	117	9.591	9.588	(0.941)	16934	25.0000	25.98
51 Benzene	78	9.856	9.854	(0.968)	43787	25.0000	26.01
49 1,2-Dichloroethane	62	9.906	9.903	(0.972)	11280	25.0000	25.97
58 Crotonaldehyde	41	10.230	10.226	(1.004)	7016	250.000	266.3(M) 2
53 Trichloroethene	130	10.614	10.612	(1.042)	11953	25.0000	24.60
54 Methylcyclohexane	83	10.801	10.799	(1.060)	18524	25.0000	24.68
55 1,2-Dichloropropane	63	10.890	10.887	(1.069)	5008	25.0000	25.71
56 Dibromomethane	174	11.047	11.045	(1.084)	4434	25.0000	26.71
59 Methylmethacrylate	69	10.900	10.897	(1.070)	28305	250.000	257.7
57 1,4-dioxane	88	11.008	11.005	(1.080)	1983	1250.00	1382
60 Bromodichloromethane	83	11.165	11.162	(1.095)	12809	25.0000	24.55
62 2-chloroethyl vinyl ether	63	11.402	11.399	(1.119)	1550	250.000	224.2
61 cis-1,3-Dichloropropene	75	11.589	11.586	(1.137)	14337	25.0000	26.1[illegible]
65 4-Methyl-2-pentanone	43	11.677	11.675	(0.894)	25974	125.000	129.[illegible]

pm 2/20/2

Data File: /chem/5972hp73.i/DF020222B73.b/CU020222B73.d
Report Date: 26-Feb-2002 09:30

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
63 Toluene	92	11.894	11.891	(0.910)	24684	25.0000	25.17
64 trans-1,3-Dichloropropene	75	12.081	12.078	(0.925)	11588	25.0000	26.82
66 Ethylmethacrylate	69	12.071	12.068	(0.924)	72460	250.000	266.9
65 1,1,2-Trichloroethane	97	12.268	12.265	(0.939)	5613	25.0000	27.16
67 1,3-Dichloropropane	76	12.415	12.413	(0.950)	9329	25.0000	25.71
68 Tetrachloroethene	164	12.376	12.374	(0.947)	10297	25.0000	25.03
69 2-hexanone	43	12.406	12.403	(0.950)	17676	125.000	139.3
70 Dibromochloromethane	129	12.622	12.620	(0.966)	7847	25.0000	25.98
71 1,2-Dibromoethane	107	12.740	12.738	(0.975)	5492	25.0000	25.68
73 1-Chlorohexane	55	12.986	12.984	(0.994)	14133	25.0000	25.74
72 Chlorobenzene	112	13.095	13.092	(1.002)	25848	25.0000	26.05
74 1,1,1,2-Tetrachloroethane	131	13.144	13.141	(1.006)	9134	25.0000	25.44
75 Ethylbenzene	106	13.134	13.131	(1.005)	14264	25.0000	25.49
76 m,p-Xylene	106	13.213	13.210	(1.011)	35771	50.0000	51.60
77 o-Xylene	106	13.518	13.515	(1.035)	16629	25.0000	26.00
78 Styrene	104	13.526	13.525	(1.035)	25873	25.0000	25.63
79 Bromoform	173	13.734	13.732	(1.051)	4370	25.0000	26.09(M)
81 Isopropyl Benzene	105	13.764	13.761	(1.053)	47457	25.0000	25.14
80 cis-1,4-dichloro-2-butene	75	13.833	13.830	(1.059)	76706	1000.00	1041
82 1,1,2,2-Tetrachloroethane	83	14.000	13.999	(0.949)	6534	25.0000	26.22
84 Bromobenzene	156	14.059	14.057	(1.076)	10580	25.0000	26.04
83 1,2,3-Trichloropropane	110	14.049	14.047	(1.075)	1416	25.0000	25.72
85 trans-1,4-dichloro-2-butene	53	14.030	14.027	(1.074)	70729	1000.00	1067
86 n-Propyl Benzene	91	14.049	14.047	(0.953)	72969	25.0000	26.06
87 2-Chlorotoluene	126	14.167	14.165	(0.961)	11325	25.0000	26.44
89 1,3,5-Trimethyl Benzene	105	14.158	14.155	(0.960)	39131	25.0000	26.38
88 4-Chlorotoluene	126	14.236	14.234	(0.965)	11046	25.0000	26.89
91 tert-Butyl Benzene	119	14.404	14.401	(0.977)	36987	25.0000	26.46
90 Pentachloroethane	167	14.482	14.480	(0.982)	6449	25.0000	27.39
92 1,2,4-Trimetnyl Benzene	105	14.433	14.440	(0.979)	37531	25.0000	26.15
93 sec Butyl Benzene	105	14.561	14.559	(0.987)	51372	25.0000	26.14
94 1,3-Dichlorobenzene	146	14.709	14.706	(0.997)	20123	25.0000	25.95
96 p Isopropyl Toluene	119	14.640	14.637	(0.993)	40520	25.0000	25.64
95 1,4-Dichlorobenzene	146	14.768	14.775	(1.001)	19112	25.0000	26.01
97 Benzyl Chloride	91	14.854	14.854	(1.007)	11504	25.0000	27.17
99 n-Butyl Benzene	91	14.945	14.942	(1.013)	42024	25.0000	25.99
98 1,2-Dichlorobenzene	146	15.071	15.070	(1.022)	16015	25.0000	26.16
100 1,3-diethylbenzene	119	15.024	15.021	(1.019)	19607	25.0000	25.12
101 1,2 Dibromo-3-Chloropropane	75	15.693	15.681	(1.063)	1744	25.0000	30.81
102 1,2,4-Trichlorobenzene	180	16.382	16.379	(1.111)	11217	25.0000	25.71
103 Hexachlorobutadiene	225	16.461	16.458	(1.116)	7803	25.0000	25.15
104 Naphthalene	128	16.687	16.665	(1.130)	14074	25.0000	26.80
105 1,2,3-Trichlorobenzene	180	16.314	16.331	(1.146)	9017	25.0000	26.43
* 1,4 1,2 Dichloroethane (total)	96				22374	50.0000	50.72
* 2 Xylene (total)	106				52400	25.0000	51.93

Rum 2/26/2

Data File: /chem/5972hp73.i/DF020222B73.b/CU020222B73.d
Report Date: 26-Feb-2002 09:30

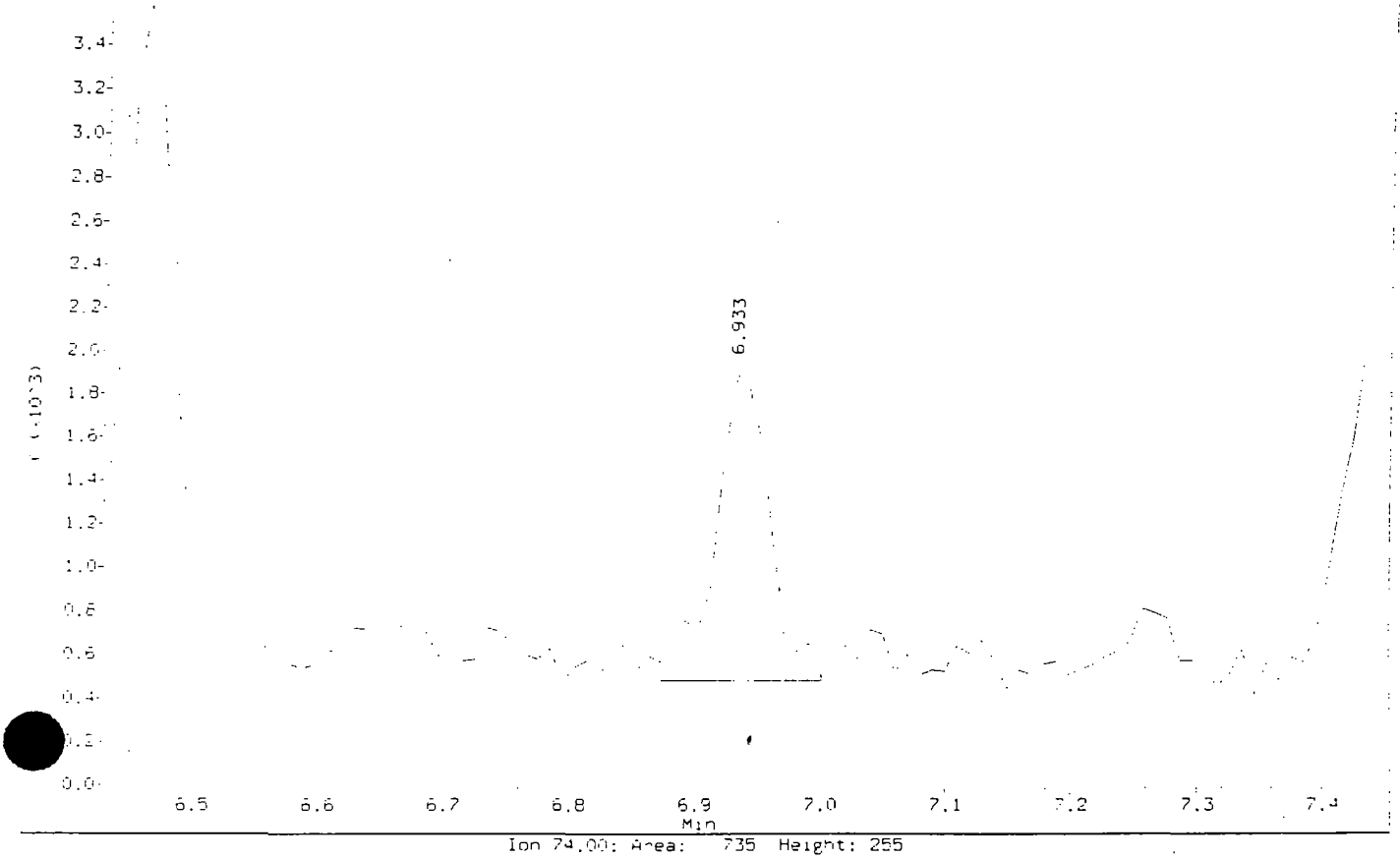
Flag Legend

M - Compound response manually integrated.

Data File: /chem/5972hp73.i/DF020222B73.b/CU020222B73.c
Injection Date: 22-FEB-2002 20:47
Instrument: 5972hp73.i
Client Sample ID: VSTD001

mpound: Methyl acetate
Number: 79-20-9

Ion 43.00: Area: 4266 Height: 1409



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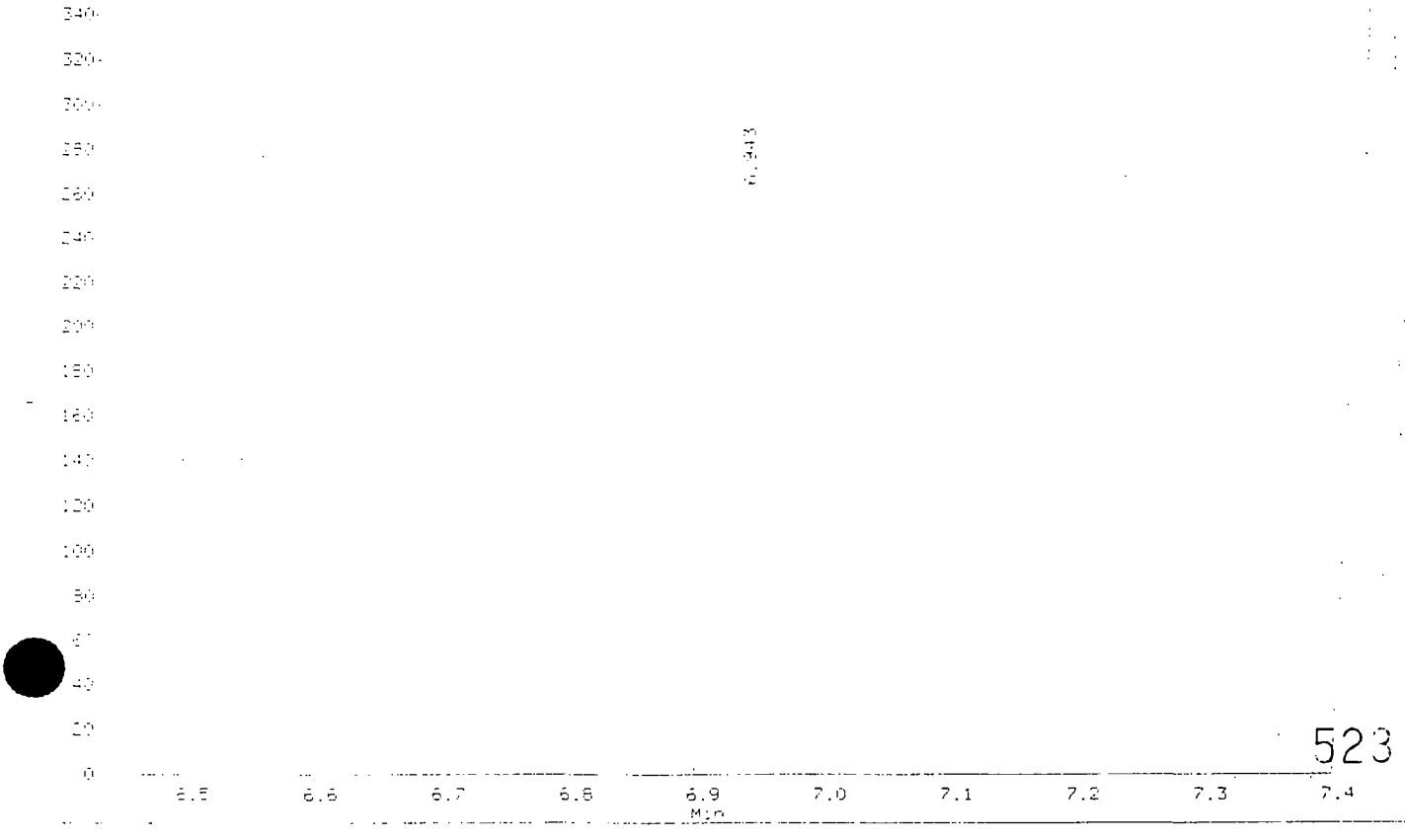
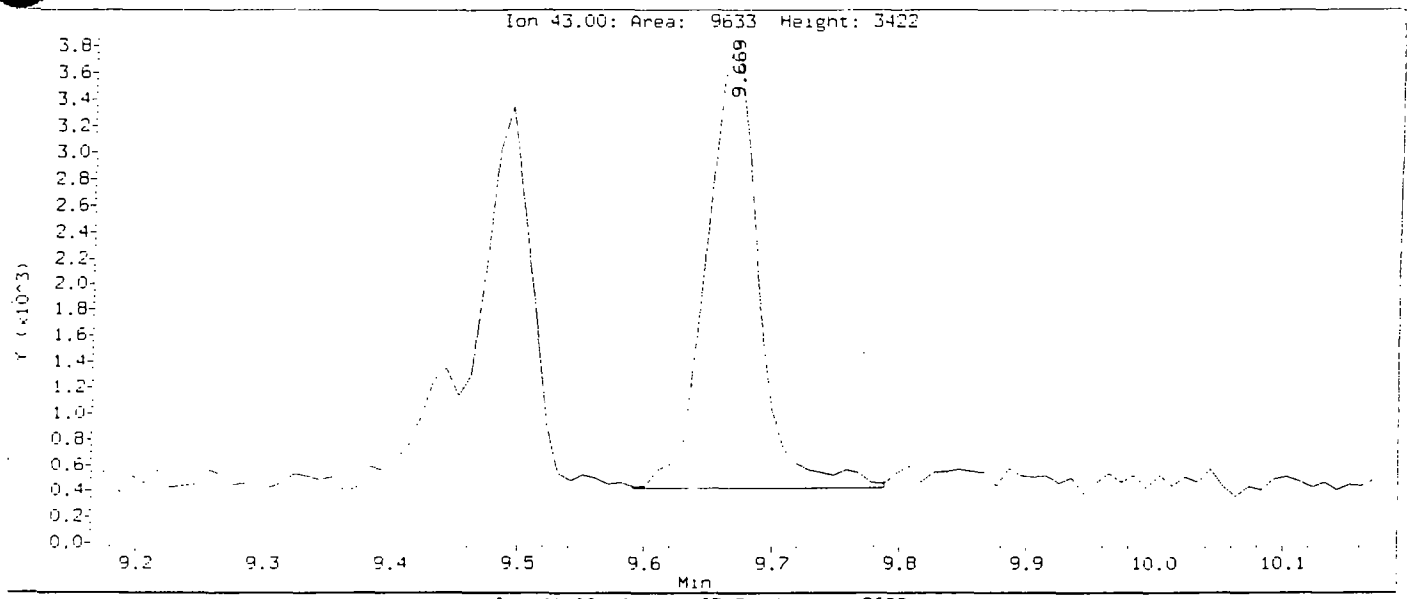
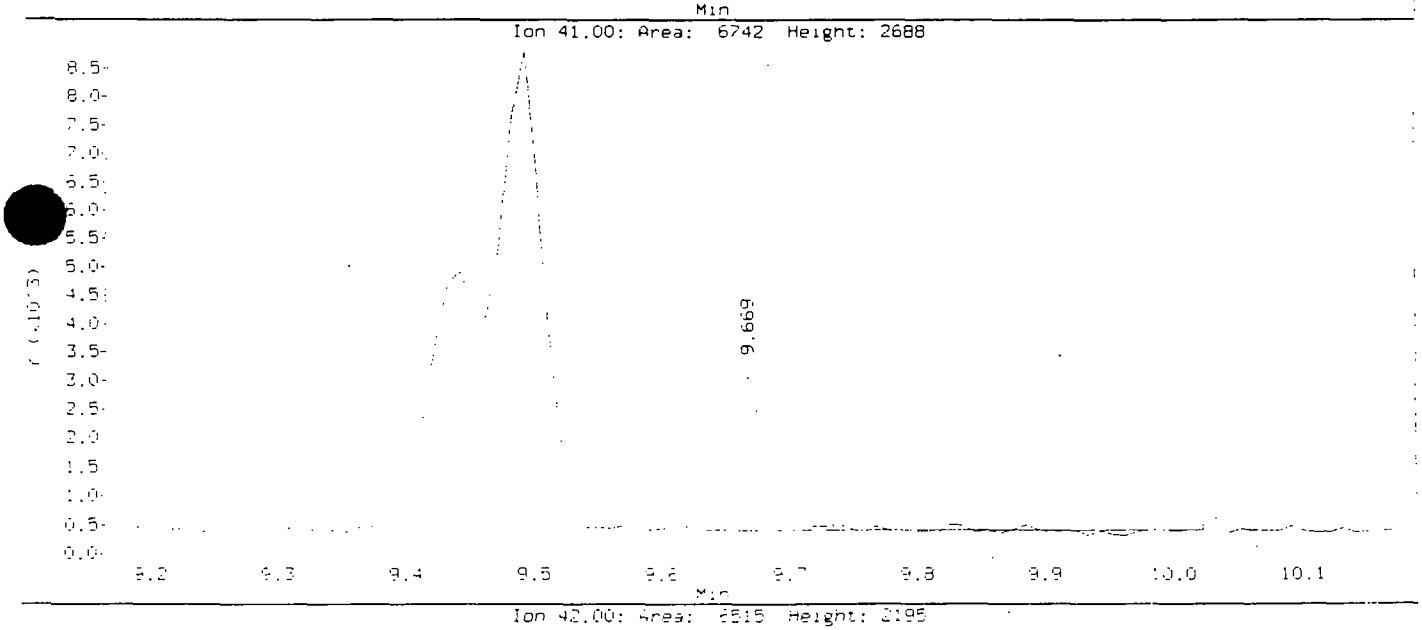
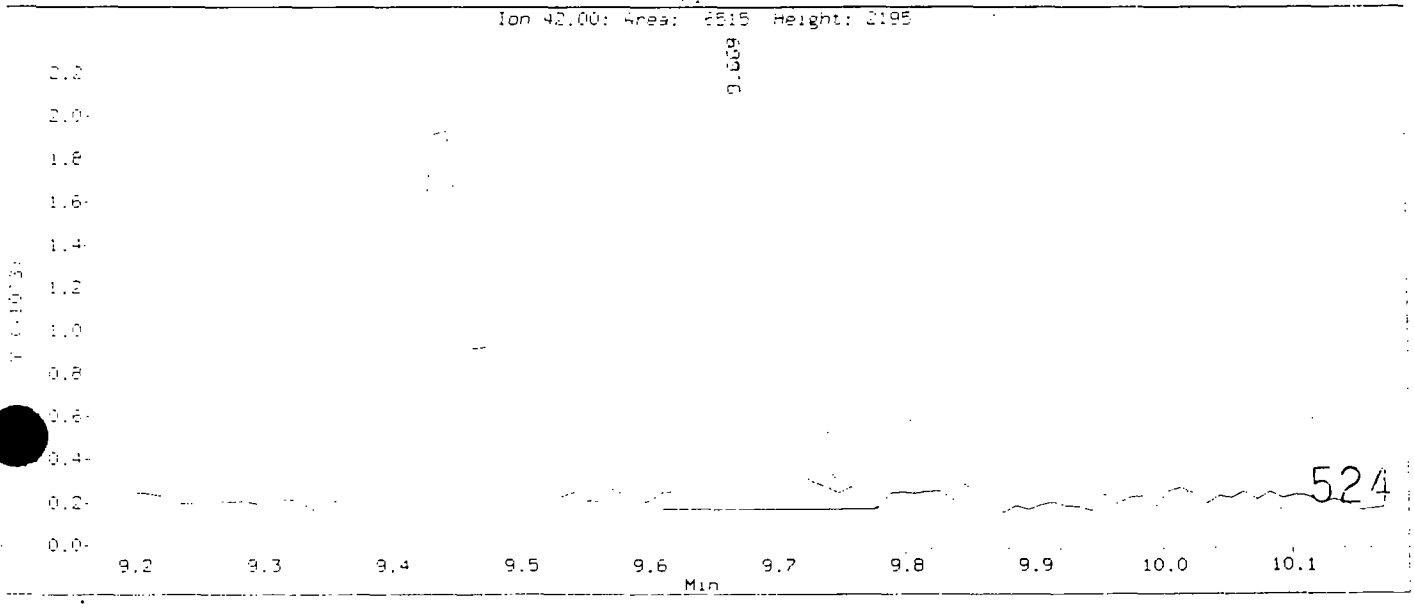


Data File: /chem/5972hp73.1/DF020222B73.b/CU020222B73.d
Injection Date: 22-FEB-2002 20:47
Instrument: 5972hp73.1
Client Sample ID: VSTD001

pound: Isobutyl alcohol
Number: 78-83-1



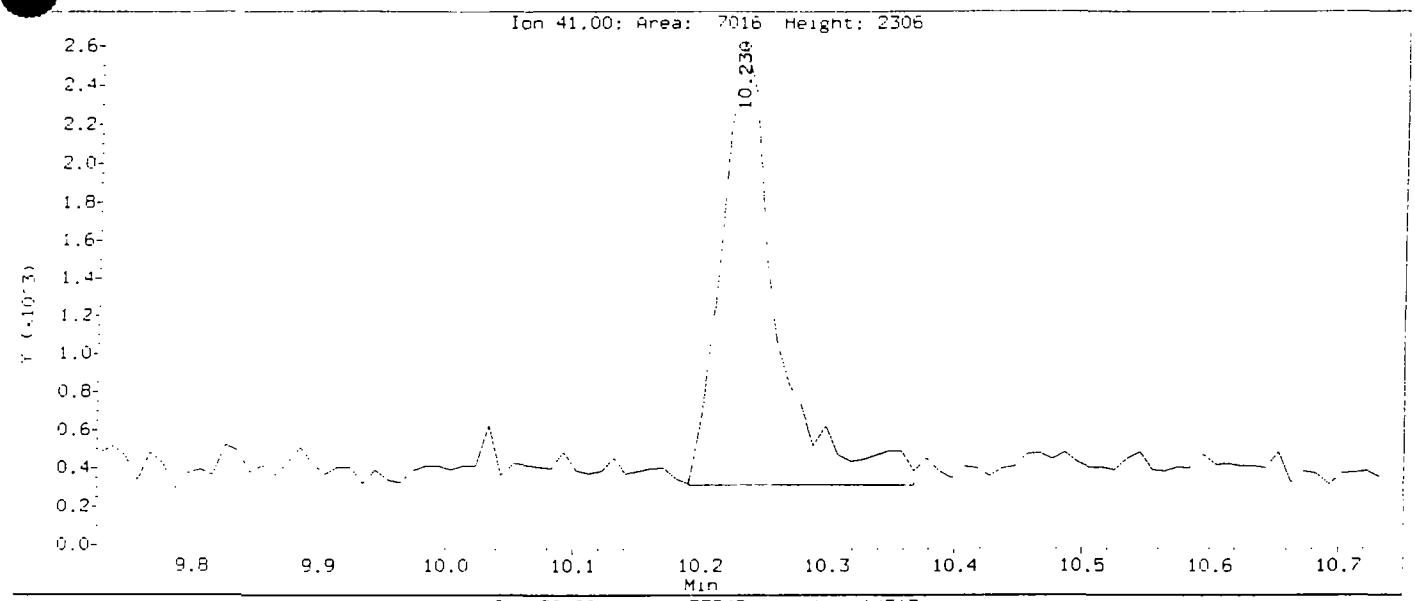


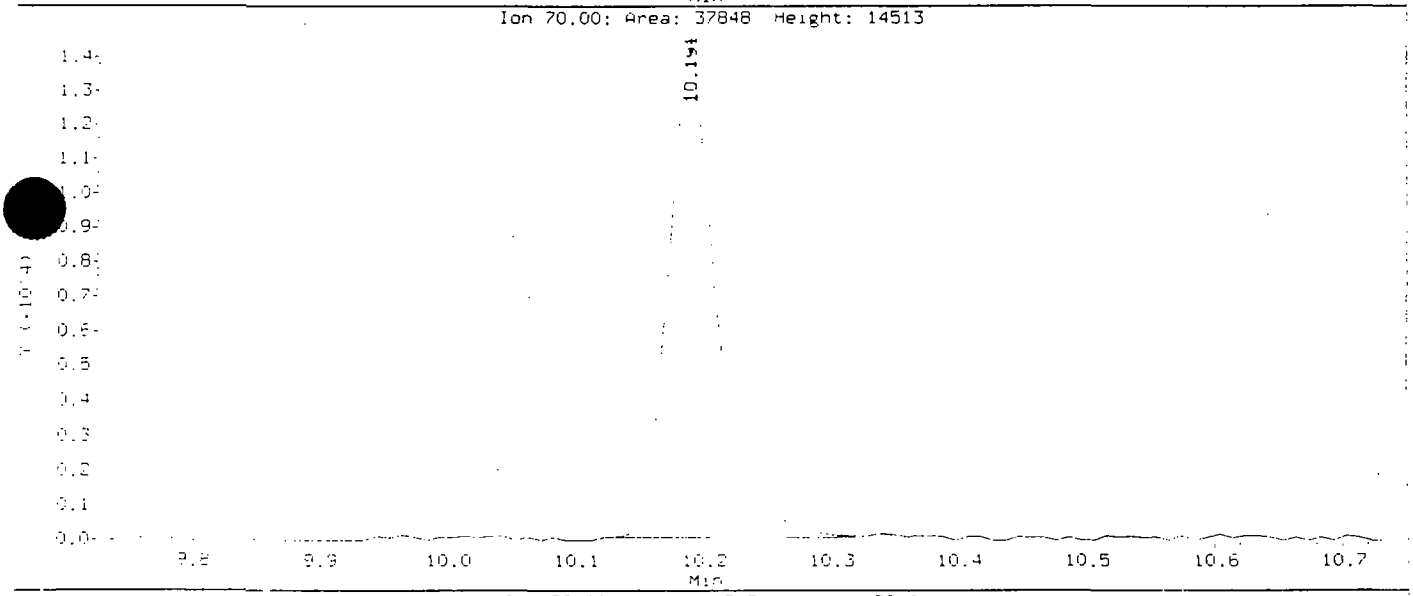


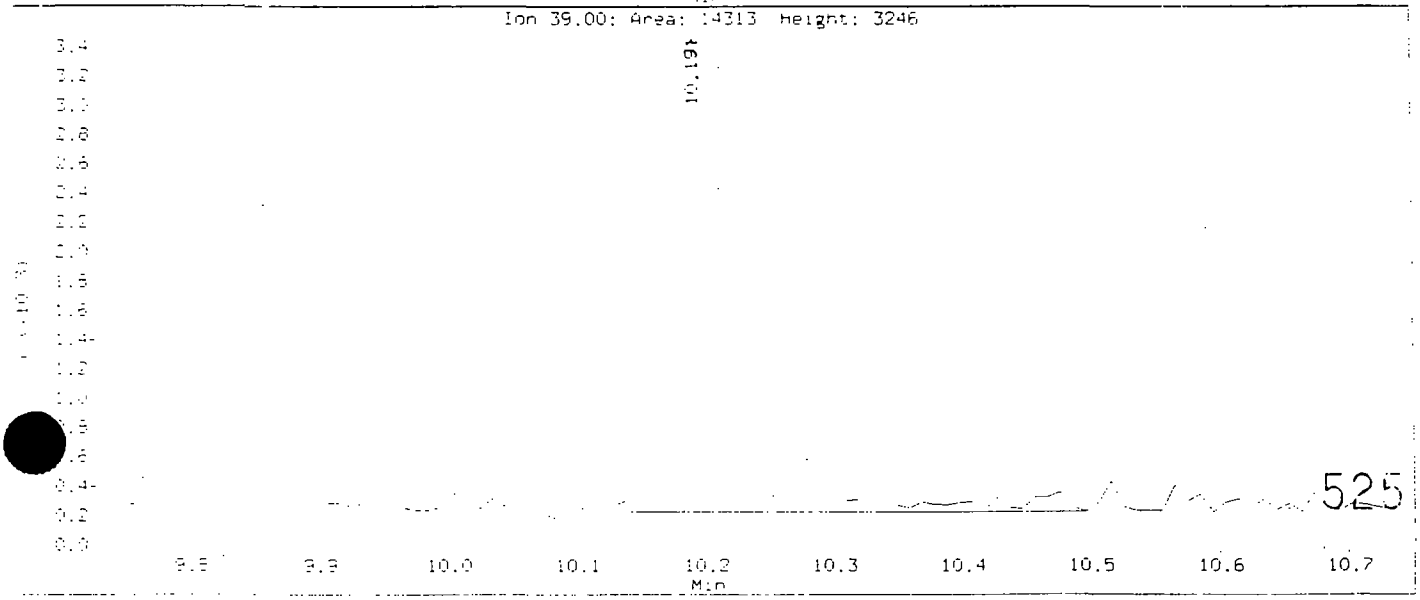
524

Data File: /chem/5972hp73.1/DF020222873.b/CU020222873.d
Injection Date: 22-FEB-2002 20:47
Instrument: 5972hp73.1
Client Sample ID: V5TD001

pound: Crotonaldehyde
Number: 4170-30-3



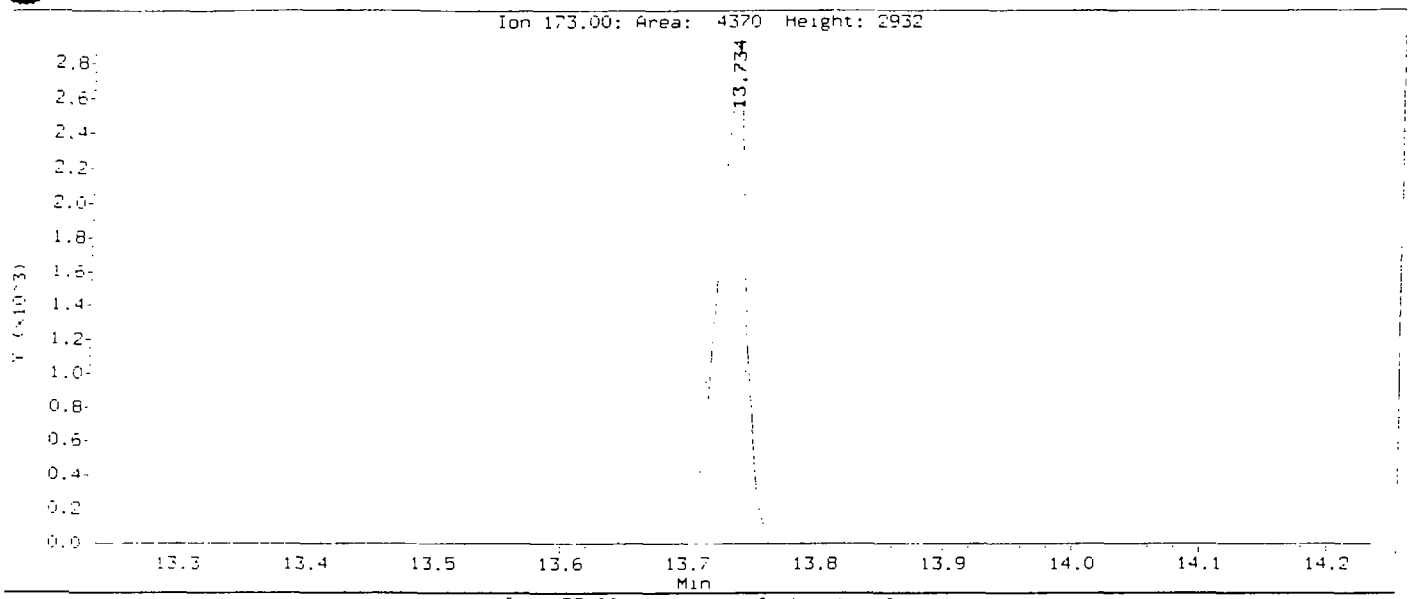


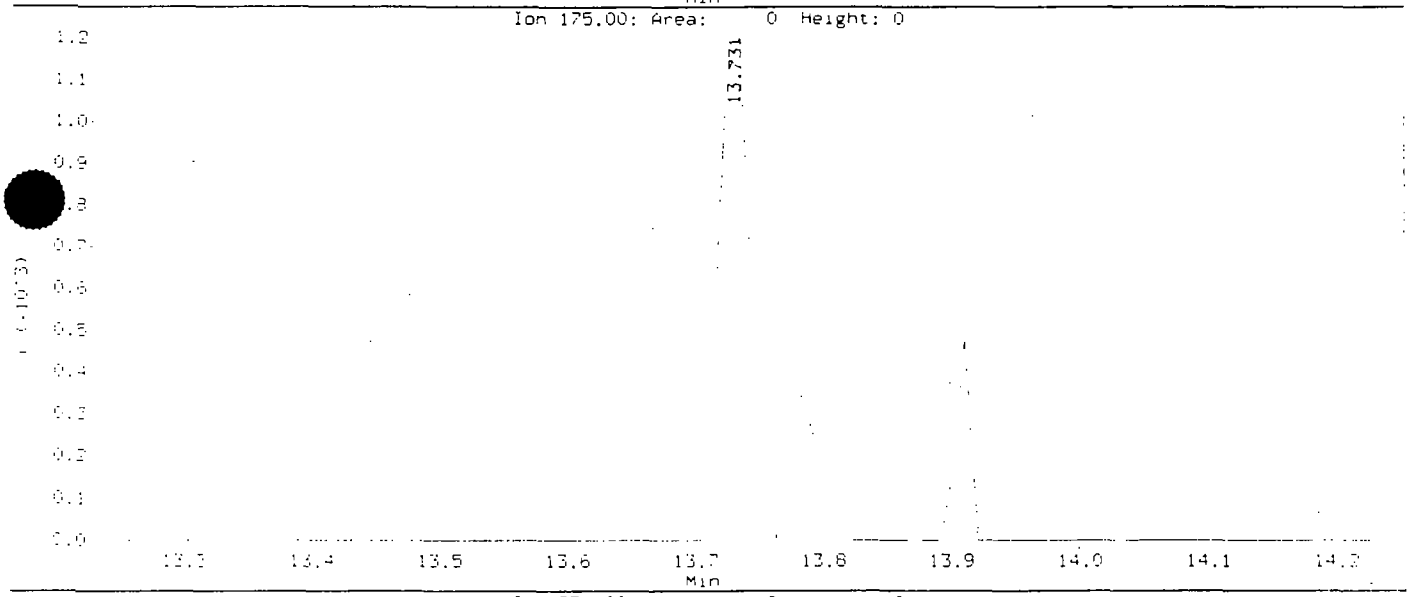


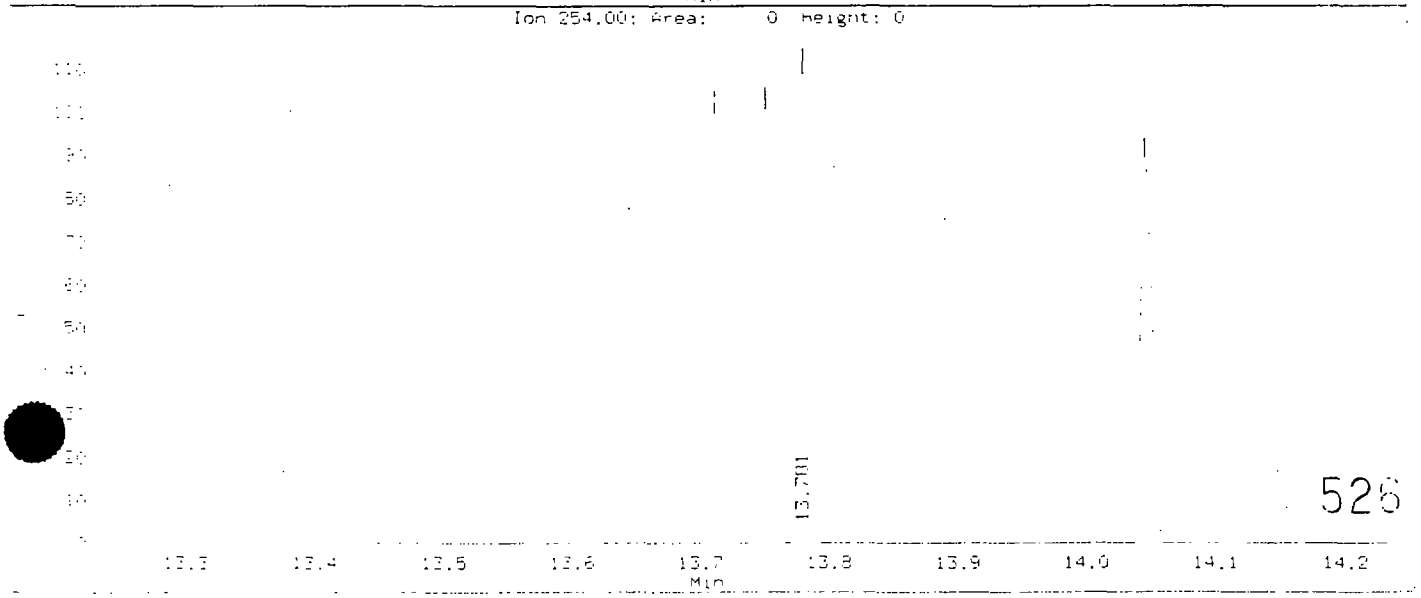
525

Data File: /chem/5972hp73.1/DF020222B73.b/CU020222B73.d
Injection Date: 22-FEB-2002 20:47
Instrument: 5972hp73.1
Client Sample ID: VSTD001

ound: Bromoform
Number: 75-25-2





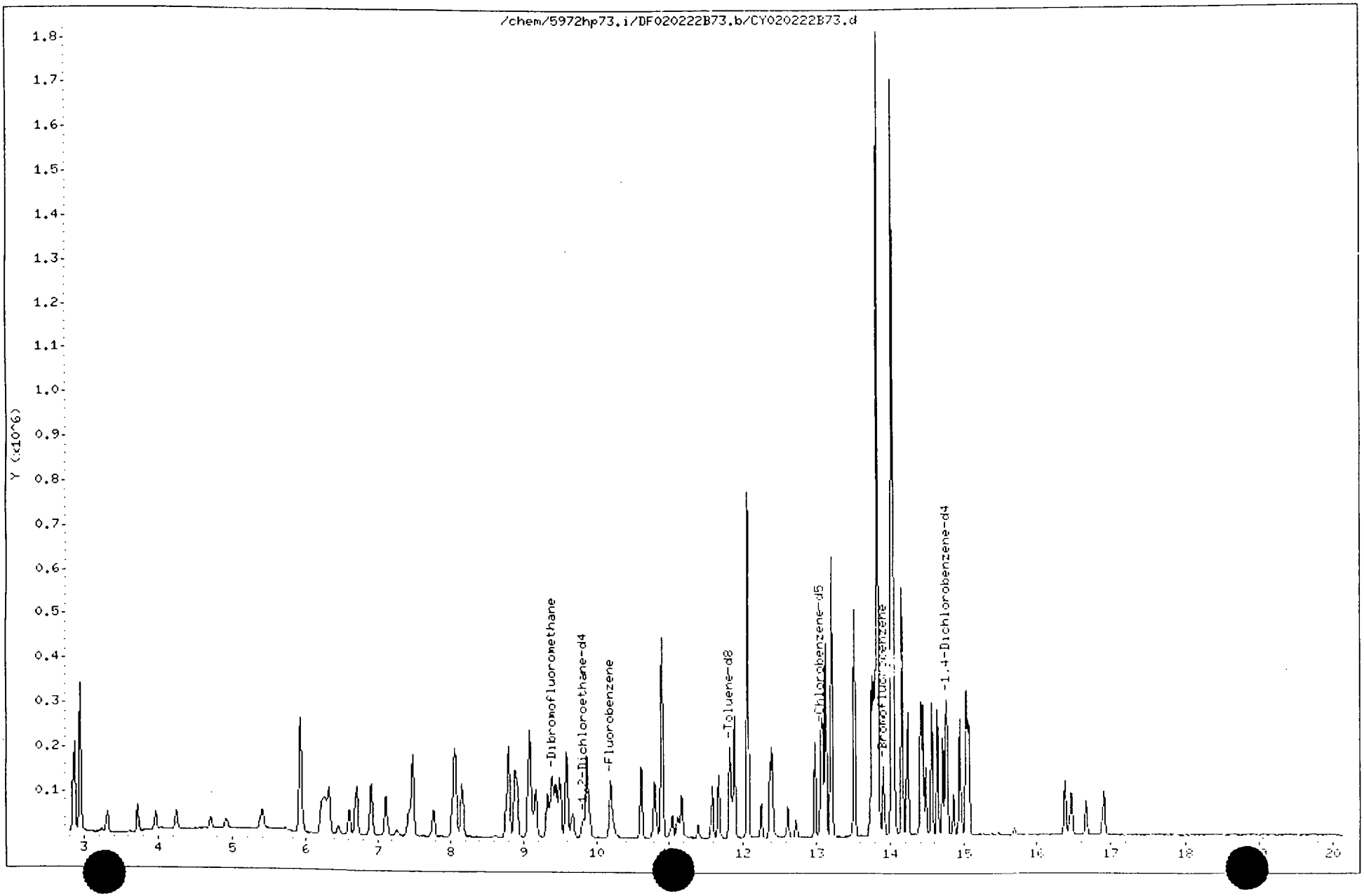


526

Data File: /chem/5972hp73.i/DF020222B73.b/CY020222B73.d
Date : 22-FEB-2002 22:50
Client ID: VSTD005
Sample Info:
Purge Volume: 25.0
Column phase: ZB-624

Instrument: 5972hp73.i

Operator: 2323
Column diameter: 0.32



Data File: /chem/5972hp73.i/DF020222B73.b/CY020222B73.d
Report Date: 26-Feb-2002 09:31

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF020222B73.b/CY020222B73.d
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 22-FEB-2002 22:50
Operator : 2323 Inst ID: 5972hp73.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp73.i/DF020222B73.b/W8260-B-25MLv6.m
Meth Date : 26-Feb-2002 09:30 mead Quant Type: ISTD
Cal Date : 22-FEB-2002 22:50 Cal File: CY020222B73.d
Als bottle: 8 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	10.189	10.189	[illegible]	140829	125.000	
* 2 Chlorobenzene-d5	117	13.663	13.663	[illegible]	112197	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.755	14.755	[illegible]	61643	125.000	
4 Dibromofluoromethane	113	3.372	3.372	[illegible]	42188	125.000	129.2
5 1,2-Dichloroethane-d4	65	3.835	3.835	[illegible]	35882	125.000	129.4
6 Toluene-d8	96	11.831	11.831	[illegible]	131505	125.000	116.3
7 Bromofluorobenzene	95	13.303	13.303	[illegible]	50888	125.000	114.2
8 Dichlorodifluoromethane	85	3.319	3.319	[illegible]	53064	125.000	107.6
9 Chloromethane	50	3.722	3.722	[illegible]	65942	125.000	[illegible]
10 Vinyl Chloride	62	3.368	3.368	[illegible]	51119	125.000	[illegible]
11 Bromomethane	94	4.706	4.706	[illegible]	25612	125.000	134.8
12 Chloroethane	64	4.313	4.313	[illegible]	23127	125.000	121.6
13 Trichlorofluoromethane	101	5.385	5.385	[illegible]	63007	125.000	118.4
14 Diethylether	74	5.317	5.317	[illegible]	124347	1250.00	1305
15 Acrolein	56	6.212	6.212	[illegible]	31356	1250.00	1455
16 1,1-Dichloroethene	96	4.337	4.337	[illegible]	45633	125.000	120.5

Rmc 2/26/2

Data File: /chem/5972hp73.i/DF020222B73.b/CY020222B73.d
Report Date: 26-Feb-2002 09:31

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
17 1,1,1-trichloro-2,2,2-trifluo	117	6.242	6.242	(0.613)	25804	125.000	105.1
20 1,1,2-trichloro-1,2,2-trifluo	85	6.281	6.281	(0.616)	26802	125.000	99.27
18 Acetone	43	6.458	6.458	(0.634)	32581	625.000	563.0
19 Iodomethane	142	6.616	6.616	(0.649)	87330	125.000	140.2
21 Carbon disulfide	76	6.704	6.704	(0.658)	194256	125.000	123.0
22 3-Chloropropene	39	6.911	6.911	(0.678)	78820	125.000	127.0
23 Acetonitrile	41	6.911	6.911	(0.678)	112605	125.000	128.9
163 Methyl acetate	43	6.931	6.931	(0.680)	22876	125.000	144.7
24 Methylene Chloride	84	7.118	7.118	(0.699)	45891	125.000	126.7
25 Acrylonitrile	53	7.492	7.492	(0.735)	70668	1250.00	1327
26 tert-butyl alcohol	59	7.265	7.265	(0.713)	21082	1250.00	1324
27 trans-1,2-Dichloroethene	96	7.482	7.482	(0.734)	49463	125.000	124.0
28 Methyl-tert-butyl ether	73	7.442	7.442	(0.730)	86355	125.000	127.9
29 n-hexane	57	7.767	7.767	(0.762)	35450	125.000	60.88
30 1,1-Dichloroethane	63	8.063	8.063	(0.791)	96312	125.000	129.7
32 Vinyl acetate	43	8.072	8.072	(0.792)	173421	250.000	258.7
33 Isopropyl ether	45	8.043	8.043	(0.789)	189045	125.000	130.1
35 2,2-Dichloropropane	77	8.781	8.781	(0.862)	83037	125.000	122.5
34 cis-1,2-Dichloroethene	96	8.801	8.801	(0.864)	48328	125.000	125.8
31 Chloroprene	53	8.161	8.161	(0.801)	96230	125.000	125.9
37 2-butanone	43	8.791	8.791	(0.863)	50009	625.000	690.1
36 Propionitrile	54	8.909	8.909	(0.874)	126188	6250.00	6818
38 Methyl acrylate	55	8.879	8.879	(0.872)	202132	1250.00	1341
39 Methacrylonitrile	41	9.076	9.076	(0.891)	159337	1250.00	1332
40 Bromochloromethane	128	9.106	9.106	(0.894)	19094	125.000	131.3
42 Chloroform	83	9.175	9.175	(0.900)	90561	125.000	124.6
41 Tetrahydrofuran	42	9.135	9.135	(0.897)	26629	500.000	527.1
43 1,1,1-Trichloroethane	97	9.391	9.391	(0.922)	84689	125.000	123.8
45 Pentafluorobenzene	168	9.322	9.322	(0.915)	86678	125.000	103.5
44 Cyclohexane	84	9.431	9.431	(0.926)	56935	125.000	114.6
46 Dibromobutane	56	9.490	9.491	(0.931)	129750	125.000	119.8
51 Tertiary butyl alcohol	43	9.667	9.667	(0.949)	44805	6250.00	6623
47 1,1-Dichloropropene	75	9.578	9.578	(0.940)	68547	125.000	120.5
49 Carbon Tetrachloride	117	9.588	9.588	(0.941)	72216	125.000	122.2
50 Benzene	78	9.854	9.854	(0.967)	197976	125.000	128.2
53 1,2-Dichloroethane	62	9.903	9.903	(0.972)	51019	125.000	128.6
48 Diethylaldehyde	41	10.224	10.224	(1.004)	23136	1250.00	1116
54 Trichloroethene	130	10.612	10.612	(1.042)	60473	125.000	138.5
4 Methylcyclohexane	83	10.799	10.799	(1.060)	58488	125.000	94.42
1,2-Dichloropropane	63	10.857	10.857	(1.069)	42064	125.000	130.4
Dibromomethane	174	11.045	11.045	1.084	20427	125.000	132.5
Methylmethacrylate	69	10.837	10.837	(1.070)	138405	1250.00	1351
1,4-Dioxane	88	11.105	11.105	(1.090)	9217	6250.00	6943
Bromodichloromethane	83	11.183	11.183	1.096)	57655	125.000	125.0
2-Chloroethyl vinyl ether	63	11.399	11.399	(1.119)	13424	1250.00	1259
cis-1,3-Dichloropropene	75	11.586	11.586	(1.137)	64192	125.000	128.5
4-Methyl-2-pentanone	43	11.675	11.675	(1.146)	118735	625.000	626.7

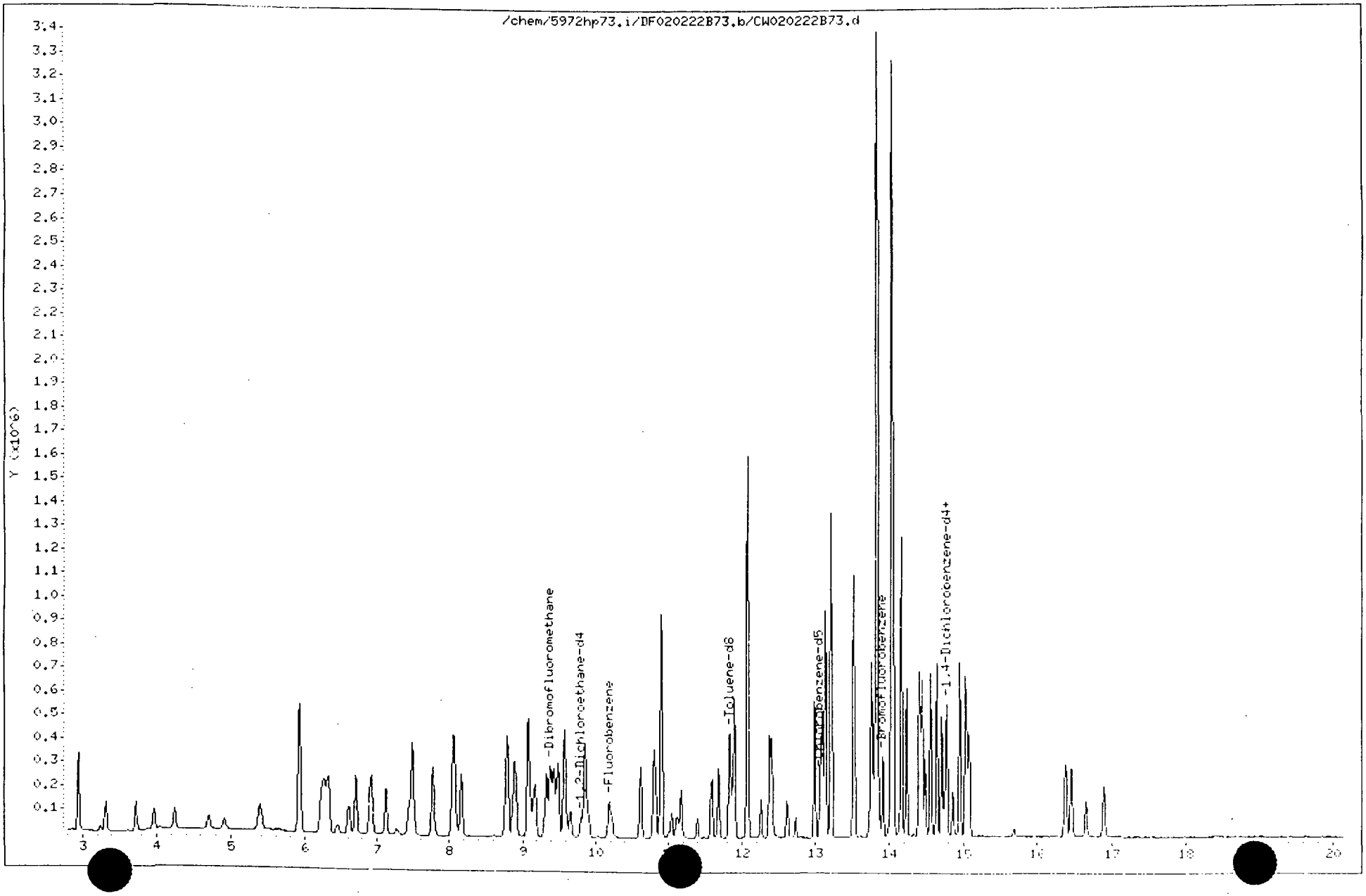
Data File: /chem/5972hp73.i/DF020222B73.b/CY020222B73.d
Report Date: 26-Feb-2002 09:31

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
63 Toluene	92	11.891	11.891	(0.910)	110884	125.000	119.9
64 trans-1,3-Dichloropropene	75	12.078	12.078	(0.925)	49838	125.000	125.1
66 Ethylmethacrylate	69	12.068	12.068	(0.924)	337614	1250.00	13[illegible]
65 1,1,2-Trichloroethane	97	12.265	12.265	(0.939)	23617	125.000	122.2
67 1,3-Dichloropropane	76	12.413	12.413	(0.950)	43164	125.000	125.1
68 Tetrachloroethene	164	12.374	12.374	(0.947)	38136	125.000	103.1
69 2-hexanone	43	12.403	12.403	(0.950)	85694	625.000	674.1
70 Dibromochloromethane	129	12.620	12.620	(0.966)	37128	125.000	125.9
71 1,2-Dibromoethane	107	12.738	12.738	(0.975)	25771	125.000	125.5
73 1-Chlorohexane	55	12.984	12.984	(0.994)	50363	125.000	99.79
72 Chlorobenzene	112	13.092	13.092	(1.002)	114301	125.000	120.6
74 1,1,1,2-Tetrachloroethane	131	13.141	13.141	(1.006)	41909	125.000	122.8
75 Ethylbenzene	106	13.131	13.131	(1.005)	61474	125.000	116.8
76 m,p-Xylene	106	13.210	13.210	(1.011)	156780	250.000	239.4
77 o-Xylene	106	13.515	13.515	(1.035)	75714	125.000	123.6
78 Styrene	104	13.525	13.525	(1.035)	120838	125.000	124.3
79 Bromoform	173	13.732	13.732	(1.051)	21006	125.000	127.7
81 Isopropyl Benzene	105	13.761	13.761	(1.053)	207110	125.000	116.0
80 cis-1,4-dichloro-2-butene	75	13.830	13.830	(1.059	362191	5000.00	5360
82 1,1,2,2-Tetrachloroethane	83	13.998	13.998	(0.949)	29998	125.000	123.1
84 Bromobenzene	156	14.057	14.057	(1.076)	47019	125.000	123.9
83 1,2,3-Trichloropropane	110	14.047	14.047	(1.075)	6438	125.000	127.4
85 trans-1,4-dichloro-2-butene	53	14.027	14.027	(1.074)	345444	5000.00	5486
86 n-Propyl Benzene	91	14.047	14.047	(0.952)	306102	125.000	112.8
[illegible]7 2-Chlorotoluene	126	14.165	14.165	(0.960)	47765	125.000	114.0
[illegible]89 1,3,5-Trimethyl Benzene	105	14.155	14.155	(0.959)	162365	125.000	111.3
88 4-Chlorotoluene	126	14.234	14.234	(0.965)	46173	125.000	112.9
91 tert-Butyl Benzene	119	14.401	14.401	(0.976)	159754	125.000	113.5
90 Pentachloroethane	167	14.480	14.480	(0.981)	28845	125.000	118.4
92 1,2,4-Trimethyl Benzene	105	14.440	14.440	(0.979)	161308	125.000	112.5
93 sec-Butyl Benzene	105	14.559	14.559	(0.987)	203768	125.000	105.5
94 1,3-Dichlorobenzene	146	14.706	14.706	(0.997)	85445	125.000	110.7
95 p-Isopropyl Toluene	119	14.637	14.637	(0.992)	158772	125.000	101.9
96 1,4-Dichlorobenzene	146	14.775	14.775	(1.001)	87289	125.000	116.2
97 Benzyl Chloride	91	14.854	14.854	(1.007)	57052	125.000	123.8
99 n-Butyl Benzene	91	14.942	14.942	(1.013)	142881	125.000	92.16
98 1,2-Dichlorobenzene	146	15.070	15.070	(1.021)	73573	125.000	118.2
100 1,2-diethylbenzene	119	15.021	15.021	(1.018)	79895	125.000	108.0
101 1,2-Dibromo-3-Chloropropane	75	15.661	15.661	(1.063)	4904	125.000	105.2
102 1,2,4-Trichlorobenzene	180	16.379	16.379	(1.110)	46855	125.000	108.7
103 Hexachlorobutadiene	225	16.468	16.468	(1.116)	24462	125.000	84.24
104 Naphthalene	128	16.665	16.665	(1.129)	70736	125.000	129.0
105 1,2,3-Trichlorobenzene	180	16.931	16.931	(1.146)	40389	125.000	117.3
M 106 1,2-Dichloroethene (total)	96				97731	250.000	249.4
M 107 Xylene (total)	106				232494	125.000	279

Data File: /chem/5972hp73.i/DF020222B73.b/CW020222B73.d
Date : 22-FEB-2002 21:54
Client ID: VSTD010
Sample Info:
Purge Volume: 25.0
Column phase: ZB-624

Instrument: 5972hp73.i

Operator: 2323
Column diameter: 0.32



Data File: /chem/5972hp73.i/DF020222B73.b/CW020222B73.d
Report Date: 26-Feb-2002 09:31

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF020222B73.b/CW020222B73.d
Lab Smp Id: VSTD010 Client Smp ID: VSTD010
Inj Date : 22-FEB-2002 21:54
Operator : 2323 Inst ID: 5972hp73.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp73.i/DF020222B73.b/W8260-B-25MLv6.m
Meth Date : 26-Feb-2002 09:30 mead Quant Type: ISTD
Cal Date : 22-FEB-2002 21:54 Cal File: CW020222B73.d
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 1 Fluorobenzene	96	10.189	10.189	(1.000)	159072	125.000	
* 2 Chlorobenzene-d5	117	13.063	13.063	(1.000)	117971	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.755	14.755	(1.000)	62642	125.000	
4 Dibromofluoromethane	113	9.372	9.372	(0.921)	91948	250.000	242.6
5 1,2-Dichloroethane-d4	65	9.805	9.805	(0.962)	75931	250.000	234.4
6 Toluene-d8	98	11.833	11.832	(0.935)	282545	250.000	228.[illegible]
7 Bromochloromethane	95	13.310	13.309	(0.943)	109574	250.000	231.4
8 Trichlorotrifluoroethane	85	3.119	3.118	(0.325)	134601	250.000	226.2
9 Chloroform	50	3.723	3.722	(0.365)	135890	250.000	244.3
10 Vinyl Chloride	62	3.969	3.968	(0.389)	118707	250.000	244.4
11 Bromomethane	94	4.697	4.706	(0.461)	57585	250.000	259.9
12 Chloroethane	64	4.804	4.813	(0.481)	60220	250.000	220.6
13 Trichlorofluoromethane	101	5.386	5.385	(0.529)	150585	250.000	241.2
14 Diethylether	74	5.917	5.917	(0.581)	269574	2500.00	2426
15 Acrolein	56	6.213	6.212	(0.610)	61414	2500.00	2593
16 1,1-Dichloroethene	96	6.331	6.330	(0.621)	104564	250.000	230.8

pwc 2/26/2

Data File: /chem/5972hp73.i/DF020222B73.b/CW020222B73.d
Report Date: 26-Feb-2002 09:31

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
17 1,1,1-trichloro-2,2,2-trifluo	117	6.242	6.242	(0.613)	69128	250.000	234.0
20 1,1,2-trichloro-1,2,2-trifluo	85	6.282	6.281	(0.616)	73204	250.000	220.7
18 Acetone	43	6.459	6.458	(0.634)	71969	1250.00	965.3
19 Iodomethane	142	6.606	6.616	(0.648)	184903	250.000	280.0
21 Carbon disulfide	76	6.705	6.704	(0.658)	435546	250.000	237.5
22 3-Chloropropene	39	6.911	6.911	(0.678)	167173	250.000	231.1
23 Acetonitrile	41	6.911	6.911	(0.678)	236873	250.000	233.3
163 Methyl acetate	43	6.931	6.931	(0.680)	41408	250.000	222.9
24 Methylene Chloride	84	7.118	7.118	(0.699)	97623	250.000	229.4
25 Acrylonitrile	53	7.492	7.492	(0.735)	146593	2500.00	2352
26 tert-butyl alcohol	59	7.256	7.265	(0.712)	42546	2500.00	2309
27 trans-1,2-Dichloroethene	96	7.482	7.482	(0.734)	110357	250.000	234.5
28 Methyl-tert-butyl ether	73	7.433	7.442	(0.730)	185143	250.000	235.8
29 n-hexane	57	7.766	7.767	(0.762)	167074	250.000	219.7
30 1,1-Dichloroethane	63	8.063	8.063	(0.791)	209856	250.000	245.2
32 Vinyl acetate	43	8.073	8.072	(0.792)	368167	500.000	472.6
33 Isopropyl ether	45	8.043	8.043	(0.789)	402062	250.000	238.1
35 2,2-Dichloropropane	77	8.782	8.781	(0.862)	182867	250.000	229.2
34 cis-1,2-Dichloroethene	96	8.801	8.801	(0.864)	106048	250.000	234.6
31 Chloroprene	53	8.161	8.161	(0.801)	211084	250.000	237.0
37 2-butanone	43	8.791	8.791	(0.863)	97773	1250.00	1180
36 Propionitrile	54	8.910	8.909	(0.874)	254652	12500.0	12060
38 Methyl acrylate	55	8.880	8.879	(0.872)	411554	2500.00	2379
39 Methacrylonitrile	41	9.077	9.076	(0.891)	332918	2500.00	2445
40 Bromochloromethane	128	9.106	9.106	(0.894)	40910	250.000	242.9
42 Chloroform	83	9.165	9.175	(0.900)	197133	250.000	231.5
41 Tetrahydrofuran	42	9.136	9.135	(0.897)	54115	1000.00	920.2
44 1,1,1-Trichloroethane	97	9.392	9.391	(0.922)	183647	250.000	236.4
45 Pentafluorobenzene	168	9.323	9.322	(0.916)	233529	250.000	231.9
44 Cyclohexane	84	9.441	9.431	(0.927)	136010	250.000	230.8
47 1-chlorobutane	56	9.490	9.496	(0.931)	297536	250.000	236.1
50 Isobutyl alcohol	43	9.656	9.667	(0.948)	89606	12500.0	11540
47 1,1-dichloropropene	75	9.573	9.578	(0.940)	159447	250.000	239.0
49 Carbon Tetrachloride	117	9.589	9.586	(0.941)	165435	250.000	240.1
51 Benzene	78	9.654	9.654	(0.947)	332311	250.000	242.0
48 1,2-Dichloroethane	62	9.574	9.573	(0.940)	112413	250.000	241.2
53 Propionitrile,3-ch	41	10.224	10.224	(1.004)	49905	2500.00	1946
55 Trichloroethene	130	10.610	10.610	(1.042)	115862	250.000	237.0
4 Methylcyclohexane	83	10.799	10.799	(1.060)	179591	250.000	231.4
56 1,2-Dichloropropane	63	11.066	11.067	(1.086)	91348	250.000	241.9
54 Dibromomethane	174	11.045	11.045	(1.084)	12461	250.000	242.8
58 Methylmethacrylate	69	11.024	11.027	(1.082)	291879	2500.00	2477
57 1,4-Dioxane	88	11.115	11.115	(1.090)	17756	12500.0	11600
59 Bromodichloromethane	83	11.143	11.143	(1.094)	126529	250.000	222.7
60 2-chloroethyl vinyl ether	63	11.401	11.399	(1.119)	36684	2500.00	3752
61 cis-1,3-Dichloropropene	75	11.587	11.586	(1.137)	138660	250.000	239.7
62 4-Methyl-2-pentanone	43	11.675	11.675	(0.894)	244395	1250.00	1189

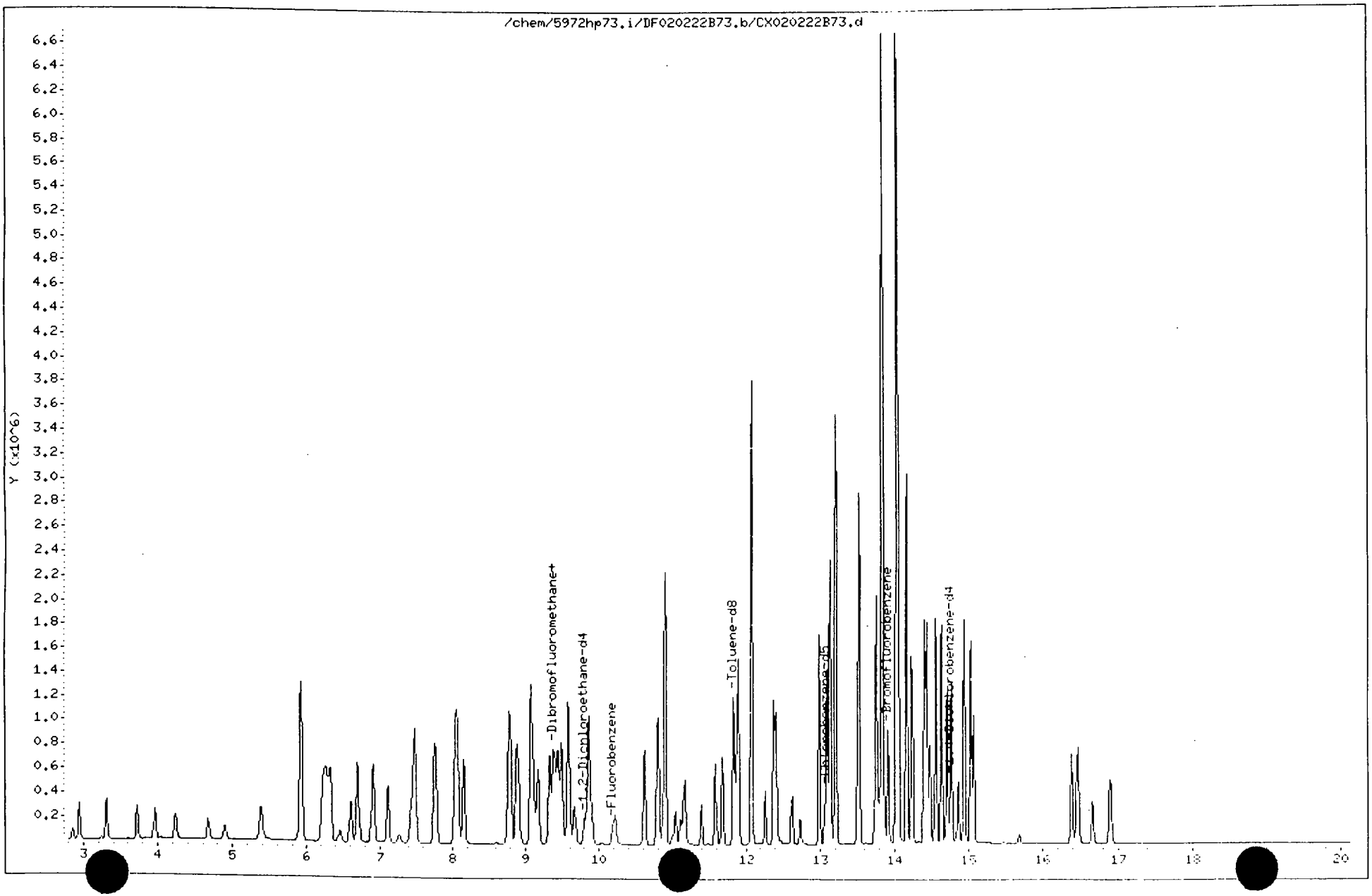
Data File: /chem/5972hp73.i/DF020222B73.b/CW020222B73.d
Report Date: 26-Feb-2002 09:31

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
63 Toluene	92	11.892	11.891	(0.910)	240593	250.000	239.6
64 trans-1,3-Dichloropropene	75	12.079	12.078	(0.925)	102651	250.000	234.4
66 Ethylmethacrylate	69	12.069	12.068	(0.924)	686230	2500.00	2445
65 1,1,2-Trichloroethane	97	12.266	12.265	(0.939)	50188	250.000	237.9
67 1,3-Dichloropropane	76	12.413	12.413	(0.950)	89358	250.000	240.2
68 Tetrachloroethene	164	12.374	12.374	(0.947)	97126	250.000	233.3
69 2-hexanone	43	12.404	12.403	(0.950)	166620	1250.00	1184
70 Dibromochloromethane	129	12.620	12.620	(0.966)	77569	250.000	247.1
71 1,2-Dibromoethane	107	12.738	12.735	(0.975)	53493	250.000	242.7
73 1-Chlorohexane	55	12.984	12.984	(0.994)	132761	250.000	238.4
72 Chlorobenzene	112	13.093	13.092	(1.002)	252343	250.000	245.4
74 1,1,1,2-Tetrachloroethane	131	13.142	13.141	(1.006)	89574	250.000	242.3
75 Ethylbenzene	106	13.132	13.131	(1.005)	142079	250.000	245.2
76 m,p-Xylene	106	13.211	13.210	(1.011)	348695	500.000	487.3
77 o-Xylene	106	13.516	13.515	(1.035)	162613	250.000	245.4
78 Styrene	104	13.526	13.525	(1.035)	259270	250.000	247.1
79 Bromoform	173	13.732	13.732	(1.051)	43812	250.000	250.1
81 Isopropyl Benzene	105	13.762	13.761	(1.053)	471140	250.000	242.3
80 cis-1,4-dichloro-2-butene	75	13.831	13.830	(1.059)	691618	10000.0	9293
82 1,1,2,2-Tetrachloroethane	83	13.998	13.998	(0.949)	59225	250.000	231.1
84 Bromobenzene	156	14.057	14.057	(1.076)	99232	250.000	238.8
83 1,2,3-Trichloropropane	110	14.047	14.047	(1.075)	12802	250.000	230.9
85 trans-1,4-dichloro-2-butene	53	14.028	14.027	(1.074)	668626	10000.0	9761
86 n-Propyl Benzene	91	14.047	14.047	(0.952)	688984	250.000	236.7
[illegible] 2-Chlorotoluene	126	14.165	14.165	(0.960)	105082	250.000	236.2
89 1,3,5-Trimethyl Benzene	105	14.156	14.155	(0.959)	371752	250.000	239.7
88 4-Chlorotoluene	126	14.234	14.234	(0.965)	104484	250.000	242.1
91 tert-Butyl Benzene	119	14.402	14.401	(0.976)	360298	250.000	244.3
90 Pentachloroethane	167	14.480	14.482	(0.981)	61219	250.000	245.7
92 1,2,4-Trimethyl Benzene	105	14.441	14.440	(0.979)	371542	250.000	245.0
93 sec-Butyl Benzene	105	14.559	14.559	(0.987)	469806	250.000	238.8
94 1,3-Dichlorobenzene	146	14.707	14.706	(0.997)	197084	250.000	242.0
95 p-Isopropyl Toluene	119	14.638	14.637	(0.992)	404284	250.000	243.0
96 1,4-Dichlorobenzene	146	14.766	14.775	(1.001)	195576	250.000	249.6
97 Benzyl Chloride	91	14.854	14.854	(1.007)	118711	250.000	253.3
99 n-Butyl Benzene	91	14.943	14.942	(1.013)	405836	250.000	239.9
98 1,2-Dichlorobenzene	146	15.171	15.171	(1.028)	160144	250.000	246.7
100 1,2-diethylbenzene	119	15.123	15.121	(1.025)	175747	250.000	225.2
101 1,2-Dibromo-3-Chloropropane	75	15.481	15.481	(1.049)	10205	250.000	193.4
102 1,2,4-Trichlorobenzene	181	15.847	15.879	(1.075)	114321	250.000	247.0
103 Hexachlorobutadiene	225	15.479	15.479	(1.049)	76223	250.000	236.4
104 Naphthalene	128	15.945	15.945	(1.079)	143522	250.000	254.0
105 1,2,3-Trichlorobenzene	181	16.002	16.001	(1.085)	89818	250.000	247.8
M 106 1,2-Dichloroethene (total)	96				216405	500.000	469.1
M 107 Xylene (total)	106				511309	250.000	771.7

Data File: /chem/5972hp73.i/DF020222B73.b/CX020222B73.d
Date : 22-FEB-2002 22:23
Client ID: VSTD025
Sample Info:
Purge Volume: 25.0
Column phase: ZB-624

Instrument: 5972hp73.i

Operator: 2323
Column diameter: 0.32



Data File: /chem/5972hp73.i/DF020222B73.b/CX020222B73.d
Report Date: 26-Feb-2002 09:31

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF020222B73.b/CX020222B73.d
Lab Smp Id: VSTD025 Client Smp ID: VSTD025
Inj Date : 22-FEB-2002 22:23
Operator : 2323 Inst ID: 5972hp73.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp73.i/DF020222B73.b/W8260-B-25MLv6.m
Meth Date : 26-Feb-2002 09:30 mead Quant Type: ISTD
Cal Date : 22-FEB-2002 22:23 Cal File: CX020222B73.d
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	10.184	10.189	(1.000)	182414	125.000	
* 2 Chlorobenzene-d5	117	13.066	13.063	(1.000)	130790	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.751	14.755	(1.000)	66294	125.000	
0 4 Dibromofluoromethane	113	9.367	9.372	(0.920)	237117	625.000	565.2
0 5 1,2-Dichloroethane-d4	65	9.800	9.805	(0.962)	193717	625.000	544.0
0 6 Toluene-d8	98	11.826	11.832	(1.005)	742481	625.000	557.0
7 Bromofluorobenzene	95	13.315	13.309	(0.943)	284360	625.000	580.8
8 Dichlorodifluoromethane	85	3.314	3.318	(0.325)	367461	625.000	555.2
9 Chloromethane	50	3.716	3.722	(0.365)	342779	625.000	528.1
10 Vinyl Chloride	62	3.964	3.968	(0.389)	297792	625.000	565.9
11 Bromomethane	94	4.771	4.766	(0.459)	125445	625.000	519.7
12 Chloroethane	64	4.[illegible]	4.[illegible]	(0.457)	131053	625.000	529.3
13 Trichlorofluoromethane	101	5.381	5.385	(0.528)	403695	625.000	578.0
14 Diethylether	74	5.913	5.917	(0.581)	661914	6250.00	5424
15 Acrolein	56	6.206	6.212	(0.610)	160203	6250.00	5983
16 1,1-Dichloroethene	96	6.326	6.330	(0.621)	262772	625.000	531.2

Rmm 2/26/2

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
17 1,1,1-trichloro-2,2,2-trifluo	117	6.237	6.242	(0.612)	191326	625.000	578.8
20 1,1,2-trichloro-1,2,2-trifluo	85	6.267	6.281	(0.615)	206061	625.000	560.4
18 Acetone	43	6.454	6.458	(0.634)	158789	3125.00	2067
19 Iodomethane	142	6.602	6.616	(0.648)	535787	625.000	684.9(A)
21 Carbon disulfide	76	6.700	6.704	(0.658)	1190990	625.000	579.9
22 3-Chloropropene	39	6.907	6.911	(0.678)	445142	625.000	556.2
23 Acetonitrile	41	6.907	6.911	(0.678)	624163	625.000	555.8
163 Methyl acetate	43	6.936	6.931	(0.681)	92544	625.000	470.3
24 Methylene Chloride	84	7.113	7.118	(0.698)	247581	625.000	529.7
25 Acrylonitrile	53	7.487	7.492	(0.735)	358589	6250.00	5278
26 tert-butyl alcohol	59	7.271	7.265	(0.714)	111641	6250.00	5504
27 trans-1,2-Dichloroethene	96	7.478	7.482	(0.734)	282146	625.000	545.2
28 Methyl-tert-butyl ether	73	7.438	7.442	(0.730)	485491	625.000	558.3
29 n-hexane	57	7.763	7.767	(0.762)	492631	625.000	578.9
30 1,1-Dichloroethane	63	8.058	8.063	(0.791)	542992	625.000	569.7
32 Vinyl acetate	43	8.078	8.072	(0.793)	950771	1250.00	1104
33 Isopropyl ether	45	8.048	8.043	(0.790)	1029267	625.000	552.3
35 2,2-Dichloropropane	77	8.777	8.781	(0.862)	490643	625.000	556.0
34 cis-1,2-Dichloroethene	96	8.796	8.801	(0.864)	270020	625.000	543.5
31 Chloroprene	53	8.157	8.161	(0.801)	555837	625.000	562.4
37 2-butanone	43	8.787	8.791	(0.863)	251871	3125.00	2755
36 Propionitrile	54	8.915	8.909	(0.875)	658604	31250.0	28110
38 Methyl acrylate	55	8.885	8.879	(0.872)	1071841	6250.00	5592
39 Methacrylonitrile	41	9.072	9.076	(0.891)	881582	6250.00	5785
[illegible] Bromochloromethane	128	9.102	9.106	(0.894)	103039	625.000	553.8
42 Chloroform	83	9.171	9.175	(0.900)	523762	625.000	556.0
41 Tetrahydrofuran	42	9.131	9.135	(0.897)	139680	2500.00	2164
43 1,1,1-Trichloroethane	97	9.387	9.391	(0.922)	498224	625.000	560.7
45 Pentafluorobenzene	168	9.328	9.322	(0.916)	664029	625.000	586.6
44 Cyclohexane	84	9.436	9.431	(0.927)	371262	625.000	565.0
46 1-chlorobutane	56	9.485	9.490	(0.931)	835038	625.000	588.9
50 Isobutyl alcohol	43	9.663	9.667	(0.949)	244073	31250.0	28280
47 1,1-dichloropropene	75	9.574	9.579	(0.940)	424483	625.000	570.8
48 Carbon Tetrachloride	117	9.584	9.588	(0.941)	443248	625.000	575.7
51 Benzene	78	9.859	9.854	(0.968)	1130074	625.000	568.3
49 1,2-Dichloroethane	62	9.899	9.903	(0.972)	290422	625.000	565.7
52 Crotonaldehyde	41	10.224	10.226	(1.004)	139116	6250.00	5046
53 Trichloroethene	130	10.617	10.612	(1.043)	293156	625.000	532.5
54 Methylcyclohexane	83	10.864	10.739	(1.061)	479699	625.000	563.4
55 1,2-Dichloropropane	63	10.883	10.887	(1.069)	230494	625.000	557.8
56 Dibromomethane	174	11.041	11.046	(1.084)	111865	625.000	569.3
64 Methylmethacrylate	69	11.003	11.007	(1.071)	716775	6250.00	5512
57 1,4-dioxane	88	11.101	11.105	(1.089)	47567	31250.0	28400
58 Bromodichloromethane	83	11.164	11.163	(1.097)	324049	625.000	542.6
60 2-chloroethyl vinyl ether	63	11.395	11.399	(1.119)	134631	6250.00	3762(A)
61 cis 1,3-Dichloropropene	75	11.582	11.586	(1.137)	362953	625.000	564.7
62 4 Methyl-2-pentanone	43	11.681	11.675	(1.894)	623331	3125.00	2824

Data File: /chem/5972hp73.i/DF020222B73.b/CX020222B73.d
Report Date: 26-Feb-2002 09:31

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
63 Toluene	92	11.887	11.891	(0.910)	633900	625.000	582.3
64 trans-1,3-Dichloropropene	75	12.064	12.078	(0.925)	250186	625.000	538.9
66 Ethylmethacrylate	69	12.074	12.068	(0.924)	1653650	6250.00	5521
65 1,1,2-Trichloroethane	97	12.261	12.265	(0.938)	127943	625.000	564.6
67 1,3-Dichloropropane	76	12.409	12.413	(0.950)	231460	625.000	575.8
68 Tetrachloroethene	164	12.379	12.374	(0.947)	260149	625.000	577.9
69 2-hexanone	43	12.409	12.403	(0.950)	435182	3125.00	2996
70 Dibromochloromethane	129	12.625	12.620	(0.966)	205060	625.000	597.7
71 1,2-Dibromoethane	107	12.733	12.738	(0.974)	139825	625.000	584.6
73 1-Chlorohexane	55	12.989	12.984	(0.994)	378924	625.000	613.1
72 Chlorobenzene	112	13.088	13.092	(1.002)	650108	625.000	583.1
74 1,1,1,2-Tetrachloroethane	131	13.137	13.141	(1.005)	230991	625.000	577.8
75 Ethylbenzene	106	13.127	13.131	(1.005)	355215	625.000	569.4
76 m,p-Xylene	106	13.206	13.210	(1.011)	881699	1250.00	1143
77 o-Xylene	106	13.511	13.515	(1.034)	412539	625.000	576.2
78 Styrene	104	13.531	13.525	(1.035)	657419	625.000	579.0
79 Bromoform	173	13.728	13.732	(1.050)	112584	625.000	590.4
81 Isopropyl Benzene	105	13.757	13.761	(1.053)	1255432	625.000	592.6
80 cis-1,4-dichloro-2-butene	75	13.826	13.830	(1.058)	1547925	25000.0	20010(A)
82 1,1,2,2-Tetrachloroethane	83	14.003	13.998	(0.949)	149203	625.000	567.2
84 Bromobenzene	156	14.052	14.057	(1.075)	244962	625.000	552.4
83 1,2,3-Trichloropropane	110	14.052	14.047	(1.075)	31295	625.000	533.8
85 trans-1,4-dichloro-2-butene	53	14.023	14.027	(1.073)	1466470	25000.0	20480
86 n-Propyl Benzene	91	14.052	14.047	(0.953)	1701656	625.000	568.9
87 2-Chlorotoluene	126	14.161	14.165	(0.960)	268490	625.000	583.1
89 1,3,5-Trimethyl Benzene	105	14.151	14.155	(0.959)	952072	625.000	590.7
88 4-Chlorotoluene	126	14.230	14.234	(0.965)	270925	625.000	600.8
91 tert-Butyl Benzene	119	14.407	14.401	(0.977)	943363	625.000	609.4
90 Pentachloroethane	167	14.485	14.480	(0.982)	169200	625.000	637.4(A)
92 1,2,4-Trimethyl Benzene	105	14.436	14.440	(0.979)	943058	625.000	596.5
93 sec-Butyl Benzene	105	14.554	14.559	(0.987)	1326401	625.000	614.4
94 1,3-Dichlorobenzene	146	14.712	14.706	(0.997)	518808	625.000	607.5
95 p-Isopropyl Toluene	119	14.643	14.637	(0.993)	1081391	625.000	616.9
96 1,4-Dichlorobenzene	146	14.771	14.775	(1.001)	499774	625.000	608.0
97 Benzyl Chloride	91	14.859	14.854	(1.007)	429483	625.000	663.5(A)
98 n-Butyl Benzene	91	14.939	14.942	(1.013)	1065196	625.000	610.8
99 1,2-Dichlorobenzene	146	15.065	15.070	(1.021)	407676	625.000	601.1
100 1,2-Diethylbenzene	119	15.027	15.021	(1.019)	481121	625.000	585.1
101 1,2-Dibromo-3-Chloropropane	75	15.636	15.631	(1.063)	23313	625.000	447.8
102 1,2,4 Trichlorobenzene	180	16.385	16.379	(1.111)	278749	625.000	582.0
103 Hexachlorobutadiene	225	16.484	16.468	(1.118)	209924	625.000	620.6
104 Naphthalene	128	16.661	16.655	(1.129)	342555	625.000	595.1
105 1,2,3 Trichlorobenzene	180	16.837	16.831	(1.145)	220362	625.000	586.3
M 106 1,2-Dichloroethene (total)	96				852166	1250.00	1059
M 107 Xylene (total)	106				1294238	625.000	1806

Data File: /chem/5972hp73.i/DF020222B73.b/CX020222B73.d
Report Date: 26-Feb-2002 09:31

Flag Legend

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

COMPUCHEM a division of Liberty Analytical Corp DATE 2/22/02 INITIAL TIME OF TUNE 1937 SHIFT/S(A) ____ (B) ✓ (C) ____

GC/MS VOLATILE RUN LOG TIME TUNE EXPIRES 0737 LINKER /METHOD W8260-B 25mL

COMPUCHEM .LOGBOOK 11 ZZZ 3 (5972hp73)

PREVENTIVE MAINTENANCE ~~LCD~~ clean ~~Source~~ Source/cut Front/Sipla/line

	REJECTED	FILE NAME	REJECTED	DATE	TIME	CLIENT ID#	CASE/SDG#	AMOUNT INJECTED	CHEMIST	COMMENTS(ETC.)/DISPOSITION
1		BF020222B73	/	2/22/02	1937	BFB	—	2ul	2323	LCD-SID
2	X	CS020222B73	✓	/ /	1964	VSTD0.2	—	25mL		For Dropc
3		CT020222B73	/	/ /	2021	VSTD0.5	—			
4		CU020222B73	/	/ /	2047	VSTD001	—			
5	/	CV020222B73	✓	/ /	2119	VSTD005	—			Seal passed
6		CW020222B73	/	/ /	2154	VSTD010	—			
7		CX020222B73	/	/ /	2223	VSTD025	—			
8		CY020222B73	/	/ /	2250	VSTD005	—			
9				/ /						
10				/ /						
11				/ /						
12				/ /						
13				/ /						
14				/ /						
15				/ /						
16				/ /						
17				/ /						
18				/ /						
19				/ /						
20				/ /						
21				/ /						
22				/ /						
23				/ /						
24				/ /						

MZ 2-25-2

	Tune	STANDARDS Analytical	Int. Std.
Std. ID #	7008	MF109	
Lot #	52708		52731

SUPERVISOR APPROVAL Michael Zuza

DATE 2-25-02

The presence of the Chemist's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist together with the chemist's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation

10/5/01:dcc

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FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Instrument ID: 5972HP71 Calibration Date(s): 03/12/02 03/12/02

Column: SPB-624 ID: 0.32 (mm) Calibration Time(s): 0849 1036

LAB FILE ID: RF0.5: CV020312A71RF1: CU020312A71 RF5: CT020312A71
RF10: CW020312A71 RF25: CX020312A71

COMPOUND	RF0.5	RF1	RF5	RF10	RF25
Chloromethane	0.430	0.436	0.329	0.434	0.446
Vinyl Chloride	0.406	0.418	0.320	0.407	0.392
Bromomethane	0.288	0.337	0.241	0.299	0.275
Chloroethane	0.178	0.199	0.146	0.177	0.168
1,1-Dichloroethene	0.182	0.205	0.160	0.189	0.193
Carbon disulfide	0.833	0.932	0.693	0.822	0.832
Acetone	0.032	0.026	0.016	0.022	0.016
Methylene Chloride	0.236	0.242	0.164	0.215	0.206
trans-1,2-Dichloroethene	0.258	0.268	0.203	0.251	0.250
1,1-Dichloroethane	0.394	0.421	0.314	0.408	0.389
cis-1,2-Dichloroethene	0.270	0.278	0.215	0.252	0.253
2-butanone	0.036	0.034	0.023	0.031	0.030
Chloroform	0.536	0.509	0.373	0.442	0.434
1,1,1-Trichloroethane	0.381	0.410	0.333	0.376	0.380
Carbon Tetrachloride	0.341	0.376	0.305	0.355	0.361
nzene	1.028	1.090	1.076	0.998	0.984
2-Dichloroethane	0.205	0.210	0.188	0.199	0.187
Trichloroethene	0.352	0.398	0.295	0.365	0.350
1,2-Dichloropropane	0.294	0.330	0.234	0.304	0.282
Bromodichloromethane	0.438	0.412	0.280	0.366	0.363
cis-1,3-Dichloropropene	0.335	0.369	0.296	0.397	0.398
4-Methyl-2-pentanone	0.105	0.114	0.103	0.122	0.121
Toluene	0.865	0.888	0.889	0.872	0.888
trans-1,3-Dichloropropene	0.300	0.324	0.287	0.304	0.292
1,1,2-Trichloroethane	0.198	0.196	0.173	0.189	0.190
Tetrachloroethene	0.312	0.319	0.334	0.312	0.334
2-hexanone	0.062	0.072	0.068	0.080	0.080
Dibromochloromethane	0.283	0.281	0.262	0.273	0.289
Chlorobenzene	0.946	0.979	0.940	0.937	0.959
Ethylbenzene	0.526	0.792	0.527	0.502	0.501
m,p-Xylene	0.870	1.331	0.681	0.633	0.621
o-Xylene	0.591	0.871	0.604	0.577	0.579
Styrene	0.737	0.857	0.871	0.879	0.882
Bromoform	0.134	0.137	0.126	0.137	0.147
1,1,2,2-Tetrachloroethane	0.495	0.506	0.450	0.489	0.478
Xylene (total)	0.591	0.871	0.604	0.577	0.579
Dibromofluoromethane	0.330	0.340	0.264	0.318	0.315
1,2-Dichloroethane-d4	0.163	0.169	0.131	0.149	0.147
Toluene-d8	0.959	1.045	1.119	1.103	1.146
Bromofluorobenzene	0.910	0.882	0.876	0.888	0.896

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Instrument ID: 5972HP71 Calibration Date(s): 03/12/02 03/12/02

Column: SPB-624 ID: 0.32 (mm) Calibration Time(s): 0849 1036

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2	MAX %RSD OR R^2
Chloromethane	AVRG	0.41513623	11.654	90.000
Vinyl Chloride	AVRG	0.38839536	10.189	30.000
Bromomethane	AVRG	0.28812814	12.205	90.000
Chloroethane	AVRG	0.17376834	10.993	90.000
1,1-Dichloroethene	AVRG	0.18592040	8.946	30.000
Carbon disulfide	AVRG	0.82248888	10.373	90.000
Acetone	AVRG	0.02265108	30.268	90.000
Methylene Chloride	AVRG	0.21270524	14.369	90.000
trans-1,2-Dichloroethene	AVRG	0.24597510	10.185	90.000
1,1-Dichloroethane	AVRG	0.38539845	10.870	90.000
cis-1,2-Dichloroethene	AVRG	0.25352746	9.635	90.000
2-butanone	AVRG	0.03093003	16.096	90.000
Chloroform	AVRG	0.45873161	14.089	30.000
1,1,1-Trichloroethane	AVRG	0.37621289	7.315	90.000
Carbon Tetrachloride	AVRG	0.34788726	7.735	90.000
Benzene	AVRG	1.03511272	4.508	90.000
2-Dichloroethane	AVRG	0.19813401	5.126	90.000
ichloroethene	AVRG	0.35208983	10.558	90.000
1,2-Dichloropropane	AVRG	0.28889070	12.156	30.000
Bromodichloromethane	AVRG	0.37164733	16.253	90.000
cis-1,3-Dichloropropene	AVRG	0.35890373	12.160	90.000
4-Methyl-2-pentanone	AVRG	0.11294665	7.969	90.000
Toluene	AVRG	0.88044921	1.235	30.000
trans-1,3-Dichloropropene	AVRG	0.30150213	4.749	90.000
1,1,2-Trichloroethane	AVRG	0.18900594	5.175	90.000
Tetrachloroethene	AVRG	0.32254337	3.409	90.000
2-hexanone	AVRG	0.07228829	11.008	90.000
Dibromochloromethane	AVRG	0.27763785	3.867	90.000
Chlorobenzene	AVRG	0.95217560	1.838	90.000
Ethylbenzene	AVRG	0.56976090	21.928	30.000
m,p-Xylene	AVRG	0.82720353	36.147	90.000
o-Xylene	AVRG	0.64455878	19.749	90.000
Styrene	AVRG	0.84541364	7.240	90.000
Bromoform	AVRG	0.13609746	5.540	90.000
1,1,2,2-Tetrachloroethane	AVRG	0.48378015	4.385	90.000
Xylene (total)	AVRG	0.64455878	19.749	90.000
Dibromofluoromethane	AVRG	0.31351802	9.348	90.000
1,2-Dichloroethane-d4	AVRG	0.15171299	9.902	90.000
Toluene-d8	AVRG	1.07431442	6.906	90.000
Bromofluorobenzene	AVRG	0.89054252	1.503	90.000

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Instrument ID: 5972HP71 Calibration Date(s): 03/12/02 03/12/02

Column: SPB-624 ID: 0.32 (mm) Calibration Time(s): 0849 1036

Average %RSD test result.

Calculate Average %RSD: 10.98311424
Maximum Average %RSD: 15.00000000

Note: Passes Average %RSD Test.

FORM VI VOA

Data File: /chem/5972hp71.i/DF020312A71.b/CV020312A71.d
Date : 12-MAR-2002 09:43
Client ID: VSTD0.5
Sample Info:
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp71.i

Operator: 2423
Column diameter: 0.32

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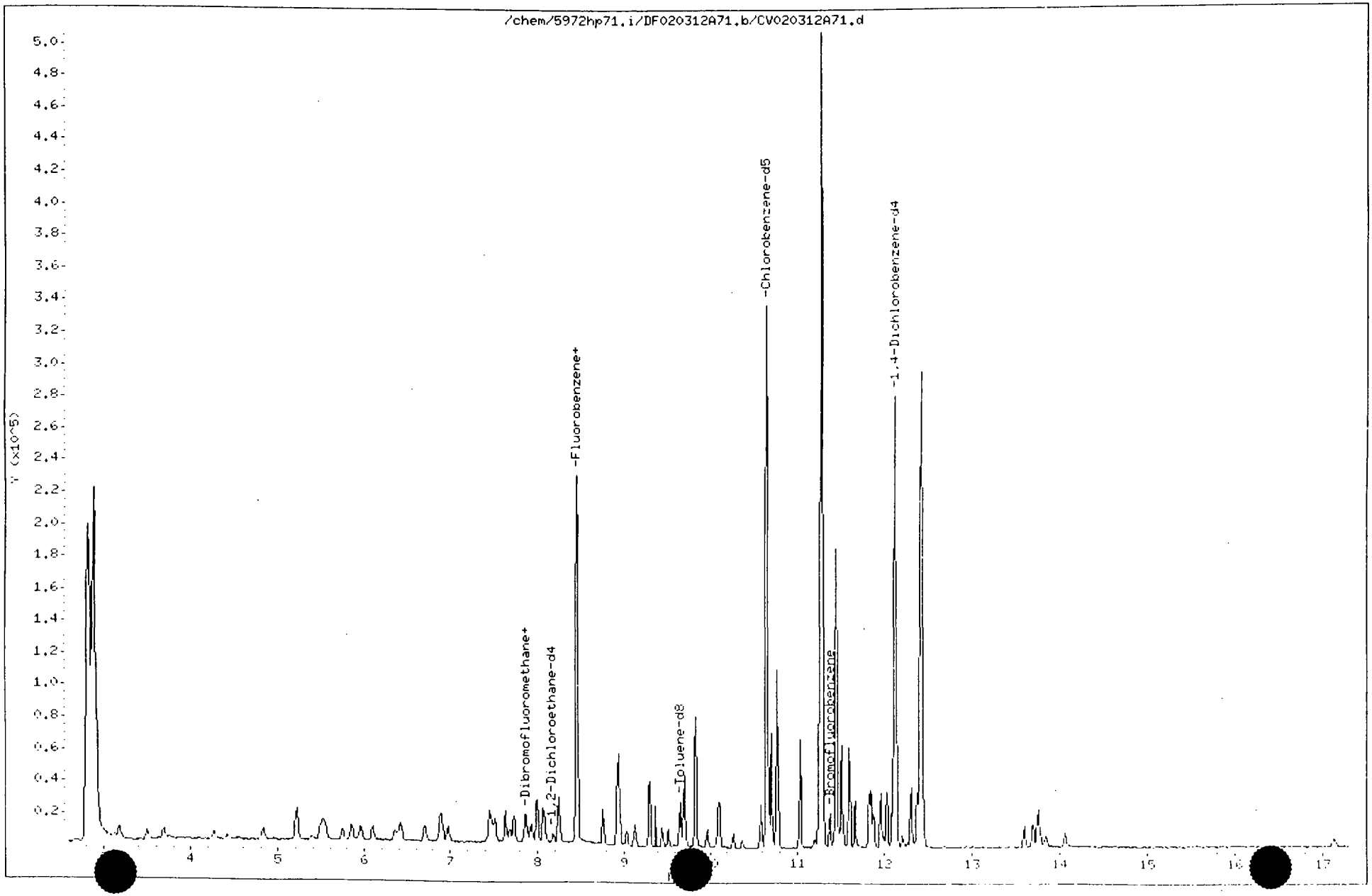

Data File: /chem/5972hp71.i/DF020312A71.b/CV020312A71.d
Report Date: 14-Mar-2002 12:03

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp71.i/DF020312A71.b/CV020312A71.d
Lab Smp Id: VSTD0.5 Client Smp ID: VSTD0.5
Inj Date : 12-MAR-2002 09:43
Operator : 2423 Inst ID: 5972hp71.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp71.i/DF020312A71.b/W8260-B-25MLv6.m
Meth Date : 14-Mar-2002 12:03 hubbard Quant Type: ISTD
Cal Date : 12-MAR-2002 09:43 Cal File: CV020312A71.d
Als bottle: 5 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

nd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (. ng)	ON-COL (ng)
* 1 Fluorobenzene	96	8.454	8.454	(1.000)	190985	125.000	
* 2 Chlorobenzene-d5	117	10.648	10.648	(1.000)	159805	125.000	
* 3 1,4-Dichlorobenzene-d4	152	12.124	12.124	(1.000)	72196	125.000	
4 Dibromofluoromethane	113	7.883	7.883	(0.932)	6304	12.5000	13.25
5 1,2-Dichloroethane-d4	65	8.188	8.188	(0.969)	3117	12.5000	13.22
6 Toluene-d8	98	9.654	9.654	(0.907)	15330	12.5000	11.52
7 Bromofluorobenzene	95	11.376	11.376	(0.938)	6574	12.5000	12.80
8 Dichlorodifluoromethane	85	3.180	3.180	(0.376)	9770	12.5000	12.60
9 Chloromethane	50	3.494	3.494	(0.413)	8211	12.5000	13.49
10 Vinyl Chloride	62	3.691	3.691	(0.437)	7747	12.5000	13.31
11 Bromomethane	94	4.262	4.262	(0.504)	5507	12.5000	11.48
12 Chloroethane	64	4.419	4.419	(0.523)	3408	12.5000	12.77
13 Trichlorofluoromethane	101	4.833	4.833	(0.572)	8389	12.5000	12.76
14 Diethylether	74	5.207	5.207	(0.616)	9288	125.000	130.4
15 Acrolein	56	5.384	5.384	(0.637)	2652	125.000	144.1

ocH 3/14/02

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Data File: /chem/5972hp71.i/DF020312A71.b/CV020312A71.d
Report Date: 14-Mar-2002 12:03

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
16 1,1-Dichloroethene	96	5.541	5.541	(0.655)	3477	12.5000	12.47
17 1,1,1-trichloro-2,2,2-trifluo	117	5.482	5.482	(0.648)	2815	12.5000	12.27
20 1,1,2-trichloro-1,2,2-trifluo	85	5.512	5.512	(0.652)	2602	12.5000	12.16
18 Acetone	43	5.561	5.561	(0.658)	3106	62.5000	81.46(M)
19 Iodomethane	142	5.748	5.748	(0.680)	9201	12.5000	12.09
21 Carbon disulfide	76	5.846	5.846	(0.692)	15309	12.5000	11.71
22 3-Chloropropene	39	5.954	5.954	(0.704)	4021	12.5000	12.72
23 Acetonitrile	41	5.954	5.954	(0.704)	6764	12.5000	13.17
163 Methyl acetate	43	5.945	5.945	(0.703)	1865	12.5000	17.05
24 Methylene Chloride	84	6.102	6.102	(0.722)	4499	12.5000	13.77
25 Acrylonitrile	53	6.358	6.358	(0.752)	5954	125.000	142.5
26 tert-butyl alcohol	59	6.181	6.181	(0.731)	1126	125.000	141.1
27 trans-1,2-Dichloroethene	96	6.427	6.427	(0.760)	4923	12.5000	13.27
28 Methyl-tert-butyl ether	73	6.397	6.397	(0.757)	5560	12.5000	13.50
29 n-hexane	57	6.702	6.702	(0.793)	5142	12.5000	12.28
30 1,1-Dichloroethane	63	6.879	6.879	(0.814)	7532	12.5000	13.10
32 Vinyl acetate	43	6.889	6.889	(0.815)	12776	25.0000	26.49
33 Isopropyl ether	45	6.909	6.909	(0.817)	13547	12.5000	14.14
35 2,2-Dichloropropane	77	7.460	7.460	(0.882)	6394	12.5000	12.84
34 cis-1,2-Dichloroethene	96	7.460	7.460	(0.882)	5163	12.5000	13.29
31 Chloroprene	53	6.978	6.978	(0.825)	5443	12.5000	12.76
37 2-butanone	43	7.430	7.430	(0.879)	3438	62.5000	72.15
36 Propionitrile	54	7.490	7.490	(0.886)	9696	625.000	671.5
38 Methyl acrylate	55	7.519	7.519	(0.889)	15478	125.000	129.3
39 Methacrylonitrile	41	7.637	7.637	(0.903)	9477	125.000	130.3
40 Bromochloromethane	128	7.686	7.686	(0.909)	2096	12.5000	13.44
42 Chloroform	83	7.736	7.736	(0.915)	10230	12.5000	14.17
41 Tetrahydrofuran	42	7.736	7.736	(0.915)	2662	50.0000	68.54
43 1,1,1-Trichloroethane	97	7.932	7.932	(0.938)	7279	12.5000	12.70
45 Pentafluorobenzene	168	7.863	7.863	(0.930)	9765	12.5000	12.66
44 Cyclohexane	84	8.001	8.001	(0.946)	4808	12.5000	12.56
46 1-chlorobutane	56	8.001	8.001	(0.946)	15371	12.5000	12.65
50 Isobutyl alcohol	43	8.070	8.070	(0.955)	3327	625.000	752.6
47 1,1-dichloropropene	75	8.070	8.070	(0.955)	5990	12.5000	12.56
48 Carbon Tetrachloride	117	8.099	8.099	(0.957)	6522	12.5000	12.52
51 Benzene	78	8.247	8.247	(0.974)	19631	12.5000	12.07
49 1,2-Dichloroethane	62	8.247	8.247	(0.974)	2916	12.5000	12.73
52 Crotonaldehyde	41	8.444	8.444	(0.999)	1764	125.000	138.9
53 Trichloroethene	130	8.754	8.754	(1.036)	4719	12.5000	12.63
54 Methylcyclohexane	83	8.924	8.924	(1.056)	7279	12.5000	11.92
55 1,2-Dichloropropane	63	8.924	8.924	(1.056)	5613	12.5000	12.45
56 Dibromomethane	174	9.034	9.034	(1.069)	2498	12.5000	12.76
58 Methylmethacrylate	69	8.944	8.944	(1.058)	15263	125.000	135.9
57 1,4-dioxane	88	9.025	9.025	(1.067)	701	625.000	520.7
59 Bromodichloromethane	83	9.123	9.123	(1.079)	8267	12.5000	11.54
60 2-chloroethyl vinyl ether	63	9.308	9.308	(1.100)	14717	125.000	120.1
61 cis-1,3-Dichloropropene	75	9.446	9.446	(1.118)	6399	12.5000	12.57

CDATH 3/14/02

Data File: /chem/5972hp71.i/DF020312A71.b/CV020312A71.d
Report Date: 14-Mar-2002 12:03

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
62 4-Methyl-2-pentanone	43	9.517	9.517	(0.894)	8376	62.5000	61.15
63 Toluene	92	9.704	9.704	(0.911)	13828	12.5000	12.28
64 trans-1,3-Dichloropropene	75	9.822	9.822	(0.922)	4796	12.5000	12.34(H)
66 Ethylmethacrylate	69	9.831	9.831	(0.923)	28826	125.000	120.1
65 1,1,2-Trichloroethane	97	9.969	9.969	(0.936)	3159	12.5000	13.09
67 1,3-Dichloropropane	76	10.087	10.087	(0.947)	4831	12.5000	12.51
68 Tetrachloroethene	164	10.107	10.107	(0.949)	4994	12.5000	12.12
69 2-hexanone	43	10.087	10.087	(0.947)	4922	62.5000	57.28
70 Dibromochloromethane	129	10.264	10.264	(0.964)	4530	12.5000	12.87
71 1,2-Dibromoethane	107	10.362	10.363	(0.973)	3112	12.5000	12.29
73 1-Chlorohexane	55	10.589	10.589	(0.994)	5074	12.5000	11.17
72 Chlorobenzene	112	10.668	10.668	(1.002)	15115	12.5000	12.38
74 1,1,1,2-Tetrachloroethane	131	10.707	10.707	(1.006)	4809	12.5000	12.43
75 Ethylbenzene	106	10.707	10.707	(1.006)	8414	12.5000	10.70
76 m,p-Xylene	106	10.776	10.776	(1.012)	27814	25.0000	22.64
77 o-Xylene	106	11.042	11.042	(1.037)	9441	12.5000	10.72
78 Styrene	104	11.042	11.042	(1.037)	11783	12.5000	11.21
79 Bromoform	173	11.209	11.209	(1.053)	2135	12.5000	12.64(M)
81 Isopropyl Benzene	105	11.248	11.248	(1.056)	22343	12.5000	11.96
80 cis-1,4-dichloro-2-butene	75	11.278	11.278	(1.059)	42773	500.000	543.7
82 1,1,2,2-Tetrachloroethane	83	11.426	11.426	(0.942)	3573	12.5000	12.79
84 Bromobenzene	156	11.504	11.504	(1.080)	5287	12.5000	12.29
83 1,2,3-Trichloropropane	110	11.475	11.475	(1.078)	772	12.5000	13.39
85 trans-1,4-dichloro-2-butene	53	11.445	11.445	(1.075)	27002	500.000	522.5
n-Propyl Benzene	91	11.504	11.504	(0.949)	27872	12.5000	11.65
2-Chlorotoluene	126	11.603	11.603	(0.957)	5747	12.5000	11.85
89 1,3,5-Trimethyl Benzene	105	11.593	11.593	(0.956)	16118	12.5000	11.30
88 4-Chlorotoluene	126	11.662	11.662	(0.962)	5076	12.5000	11.16
91 tert-Butyl Benzene	119	11.819	11.819	(0.975)	15099	12.5000	11.06
90 Pentachloroethane	167	11.878	11.876	(0.980)	3274	12.5000	12.68
92 1,2,4-Trimethyl Benzene	105	11.849	11.849	(0.977)	17503	12.5000	12.04
93 sec-Butyl Benzene	105	11.957	11.957	(0.986)	21130	12.5000	10.81
94 1,3-Dichlorobenzene	146	12.085	12.085	(0.997)	9747	12.5000	11.77
95 p-Isopropyl Toluene	119	12.026	12.026	(0.992)	15931	12.5000	10.38
96 1,4-Dichlorobenzene	146	12.134	12.134	(1.001)	10389	12.5000	12.41
97 Benzyl Chloride	91	12.203	12.203	(1.006)	4525	12.5000	11.99
99 n-Butyl Benzene	91	12.301	12.301	(1.015)	16923	12.5000	10.36
98 1,2-Dichlorobenzene	146	12.400	12.400	(1.023)	8815	12.5000	12.69
100 1,2-diethylbenzene	119	12.370	12.370	(1.020)	10363	12.5000	10.31
101 1,2-Dibromo-3-Chloropropane	75	12.931	12.931	(1.067)	379	12.5000	13.03
102 1,2,4-Trichlorobenzene	180	13.600	13.600	(1.122)	4439	12.5000	11.56
103 Hexachlorobutadiene	225	13.499	13.499	(1.130)	2591	12.5000	10.57
104 Naphthalene	128	13.846	13.846	(1.142)	6017	12.5000	11.70
105 1,2,3-Trichlorobenzene	180	14.067	14.067	(1.160)	3443	12.5000	11.34
M 106 1,2-Dichloroethene (total)	96				10066	25.0000	26.56
M 107 Xylene (total)	106				37255	12.5000	42.30

gcatt 3/14/02

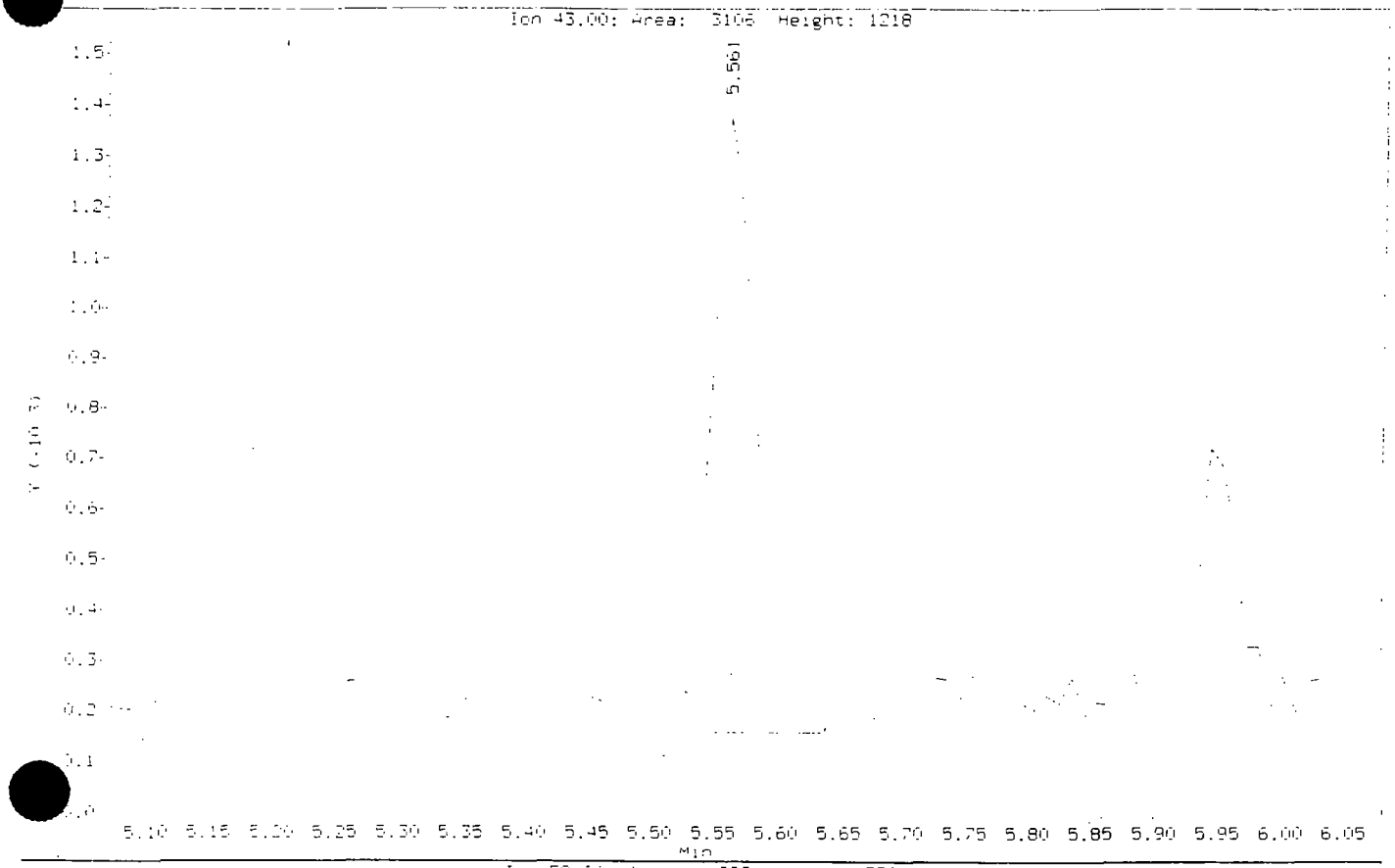
Data File: /chem/5972hp71.i/DF020312A71.b/CV020312A71.d
Report Date: 14-Mar-2002 12:03

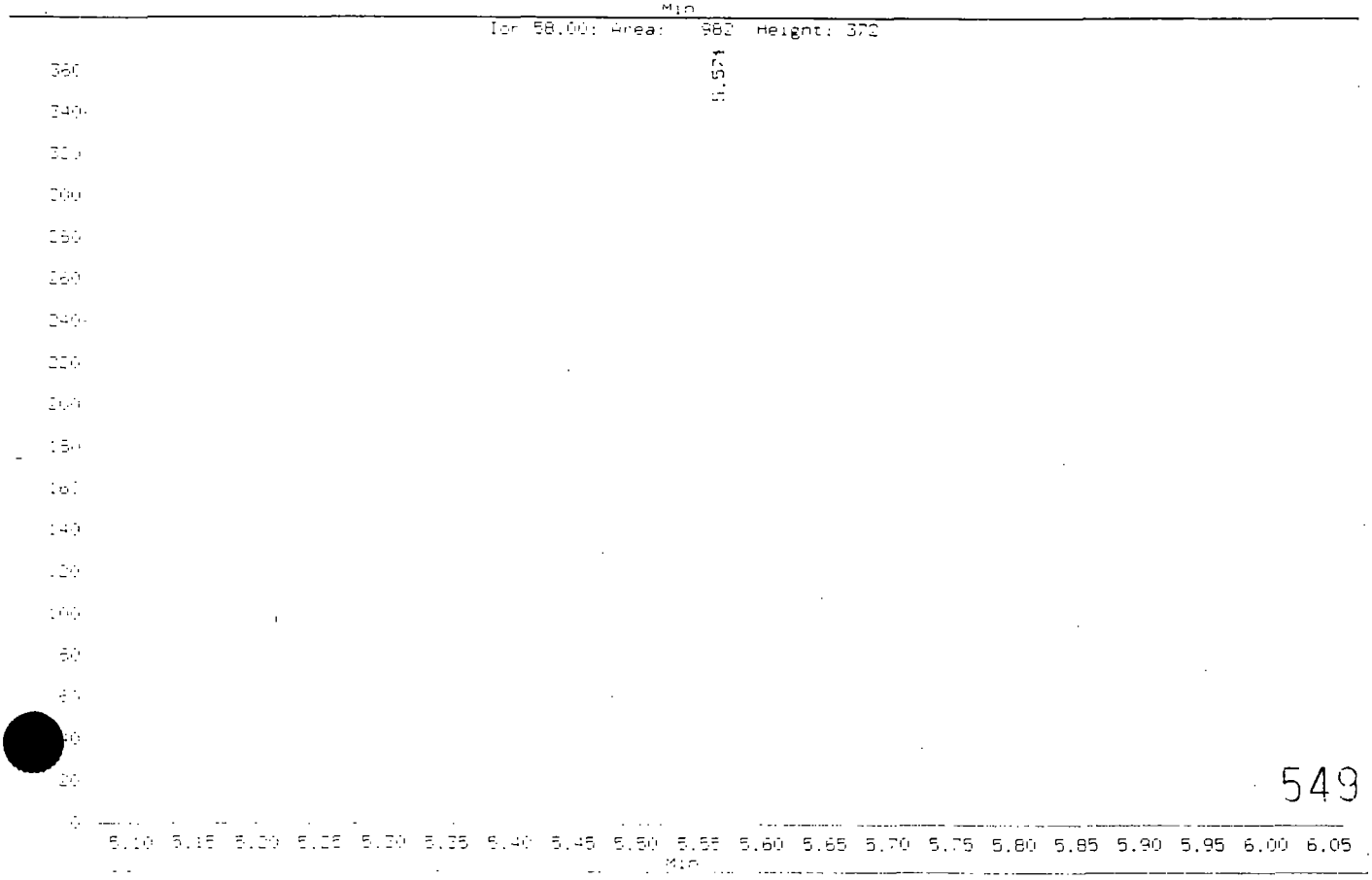
Flag Legend

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

Data File: [illegible]
Injection Date: 12-MAR-2002 09:43
Instrument: 5972mp71.i
Client Sample ID: VSTD0.5

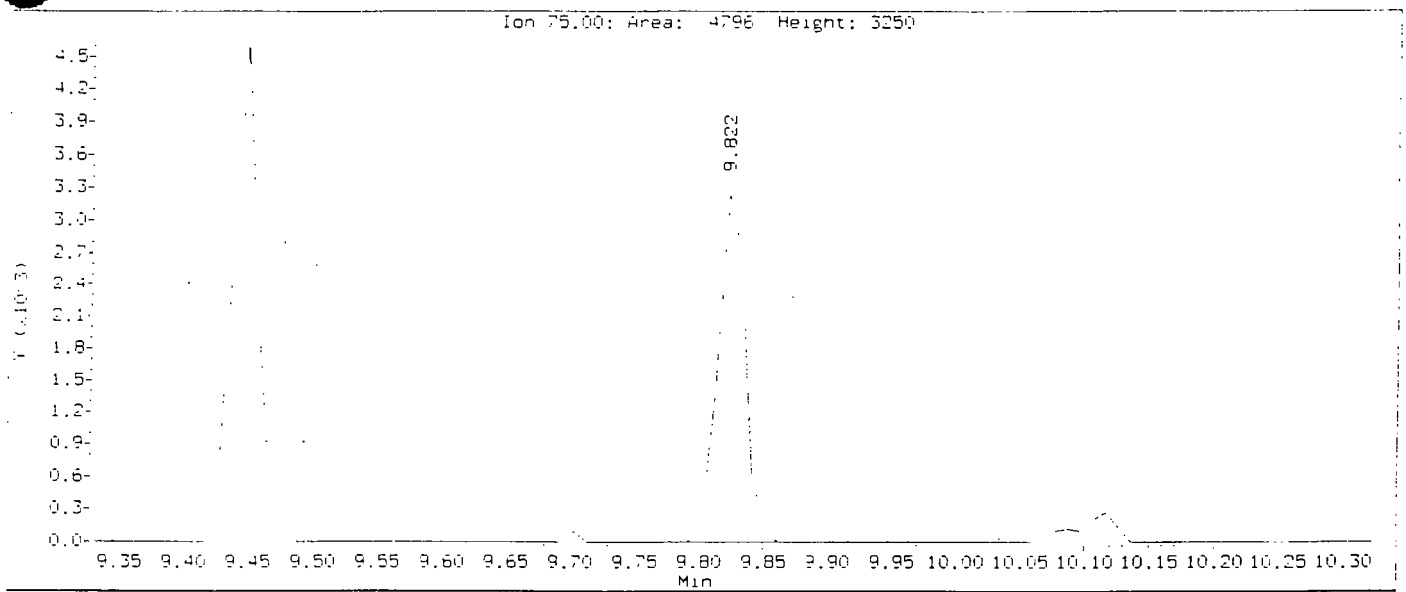
Compound: Acetone
CAS Number: 67-64-1

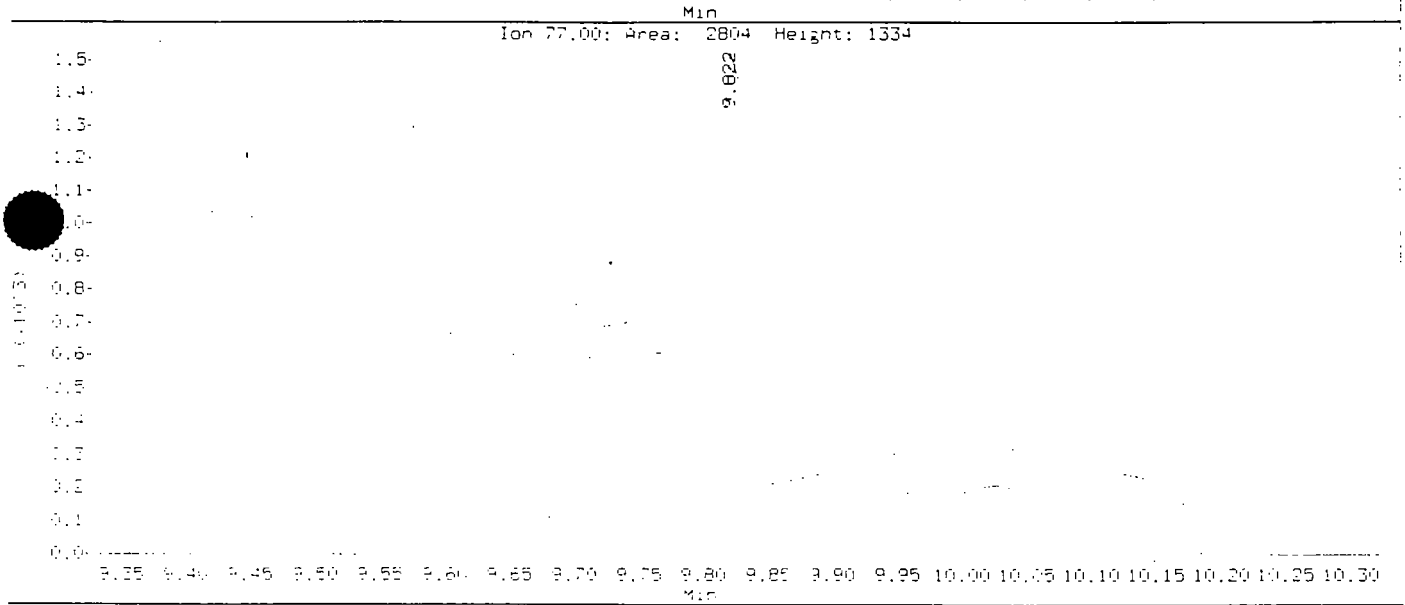


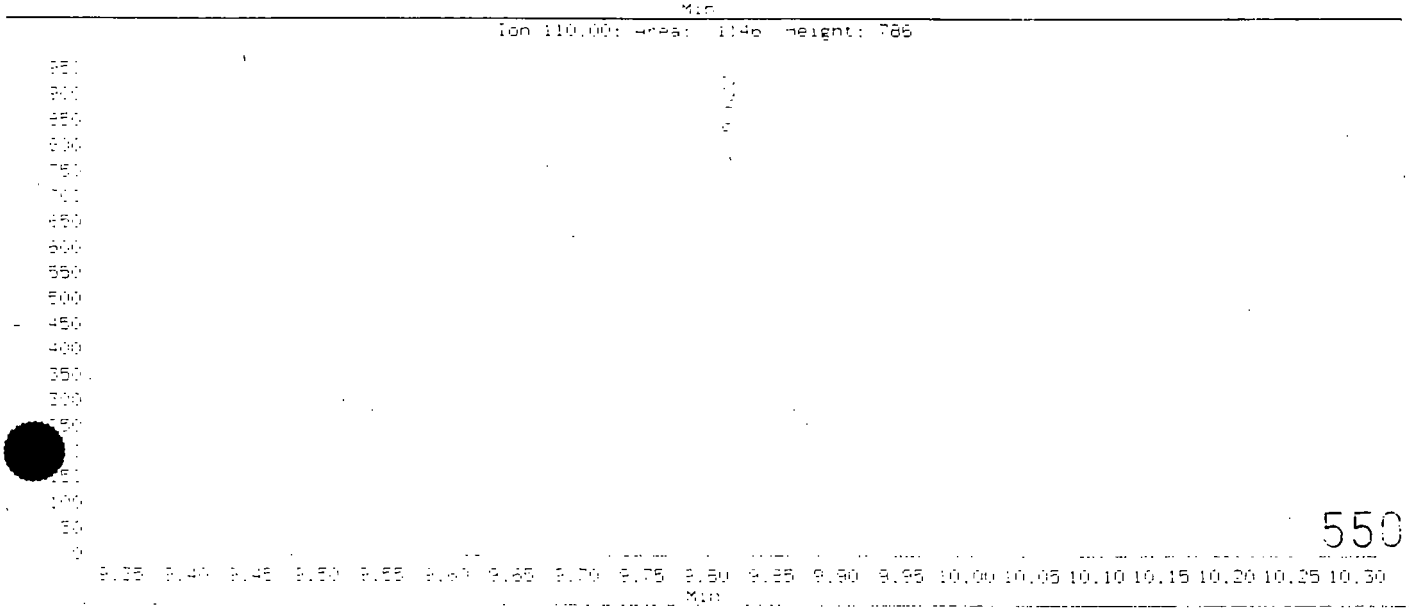


Data File: /chem/5972hp71.i/DF020312471.d/DV020312471.d
Injection Date: 12-MAR-2002 09:43
Instrument: 5972hp71.i
Client Sample ID: VSTD0.5

Compound: trans-1,3-Dichloropropene
CAS Number: 10061-02-6

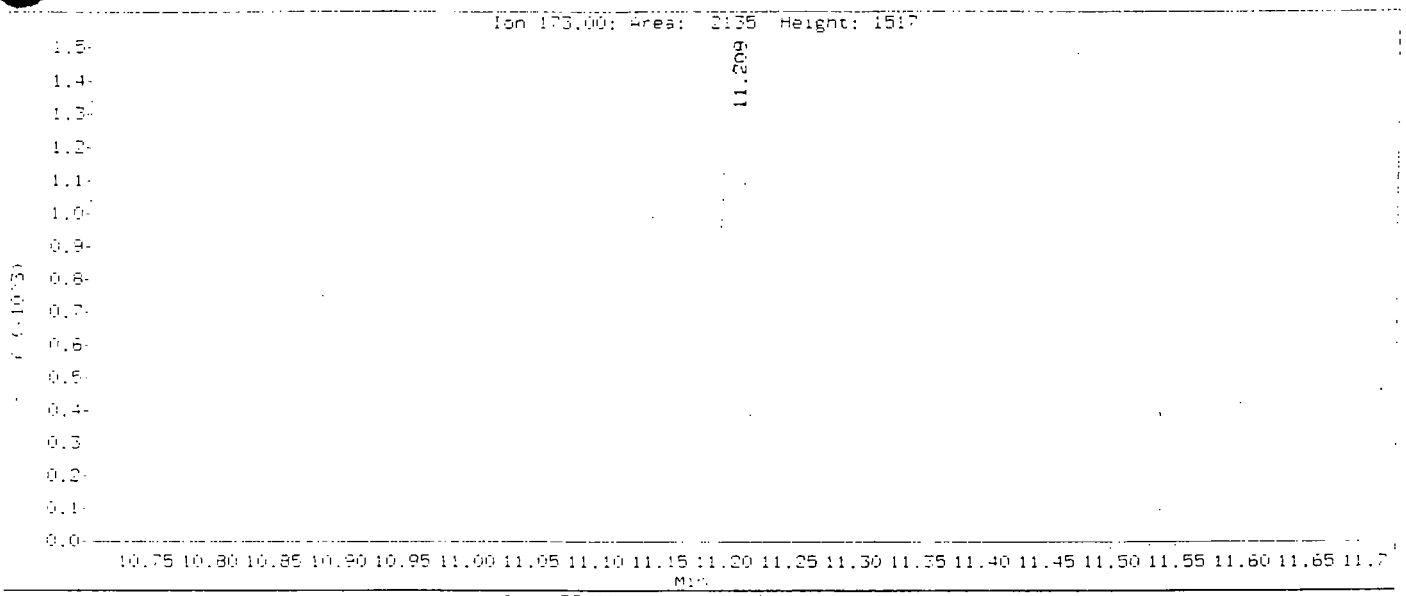


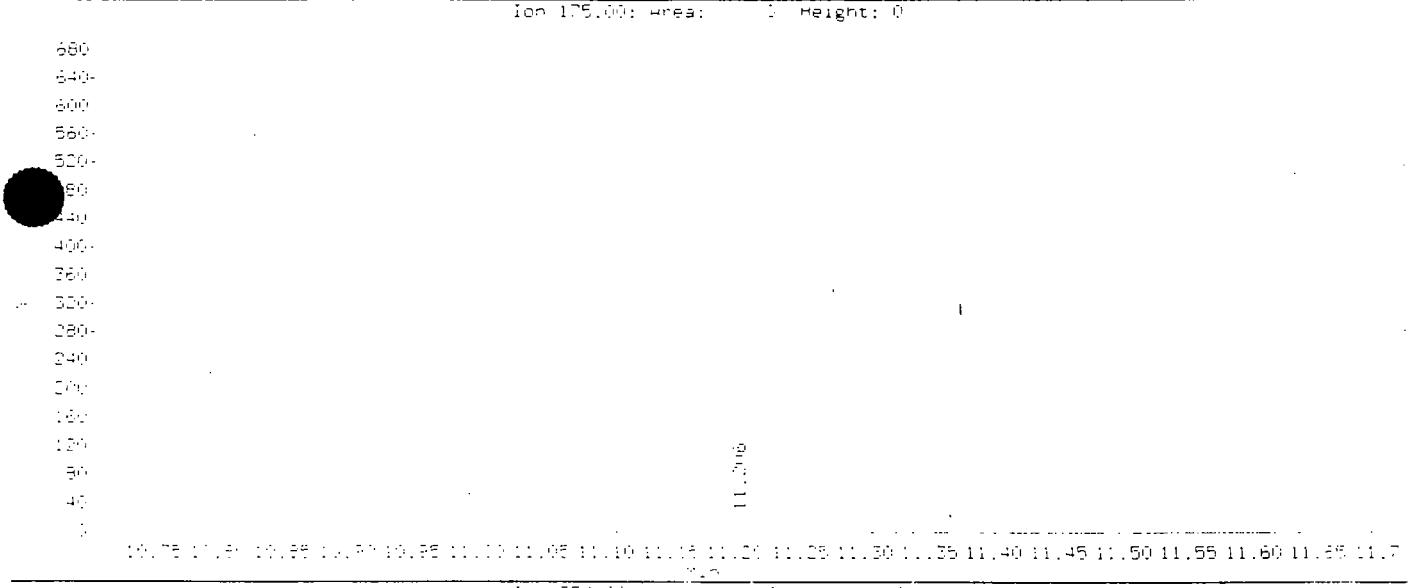


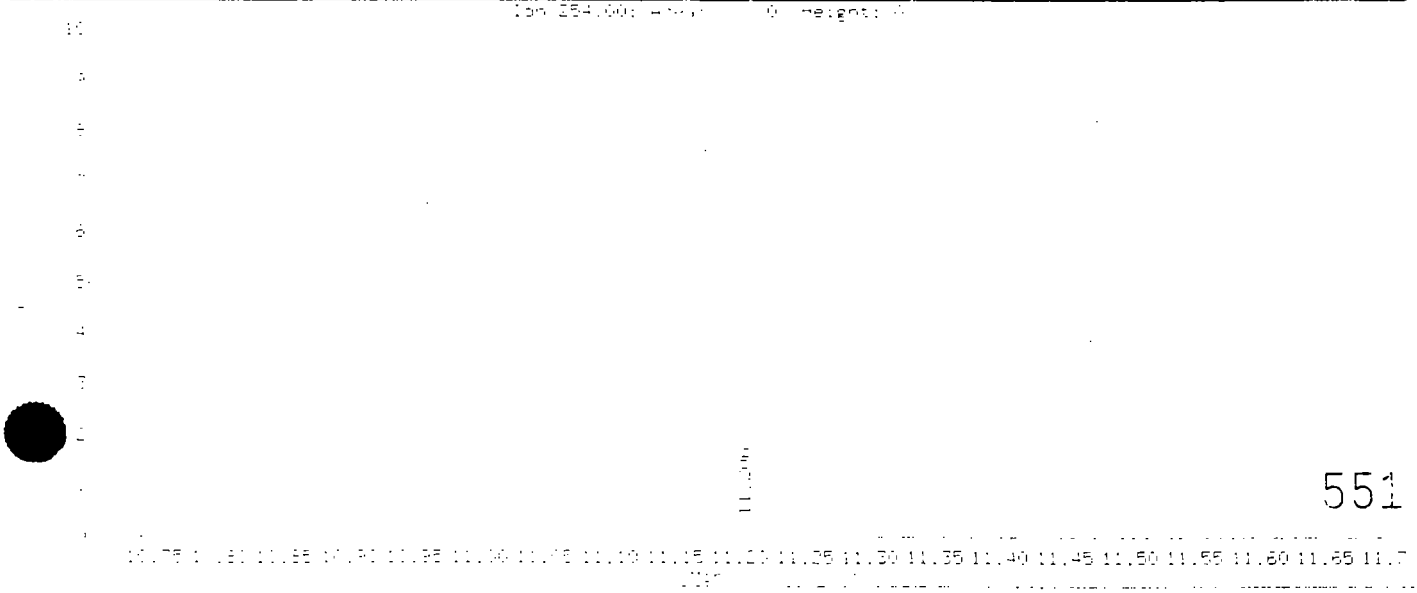


Data File: /chem/5972hp71.i/DF020312A71.b/[illegible]
Injection Date: 12-MAR-2002 09:43
Instrument: 5972hp71.i
Client Sample ID: VSTD0.5

Compound: Bromoform
Number: 75-25-2



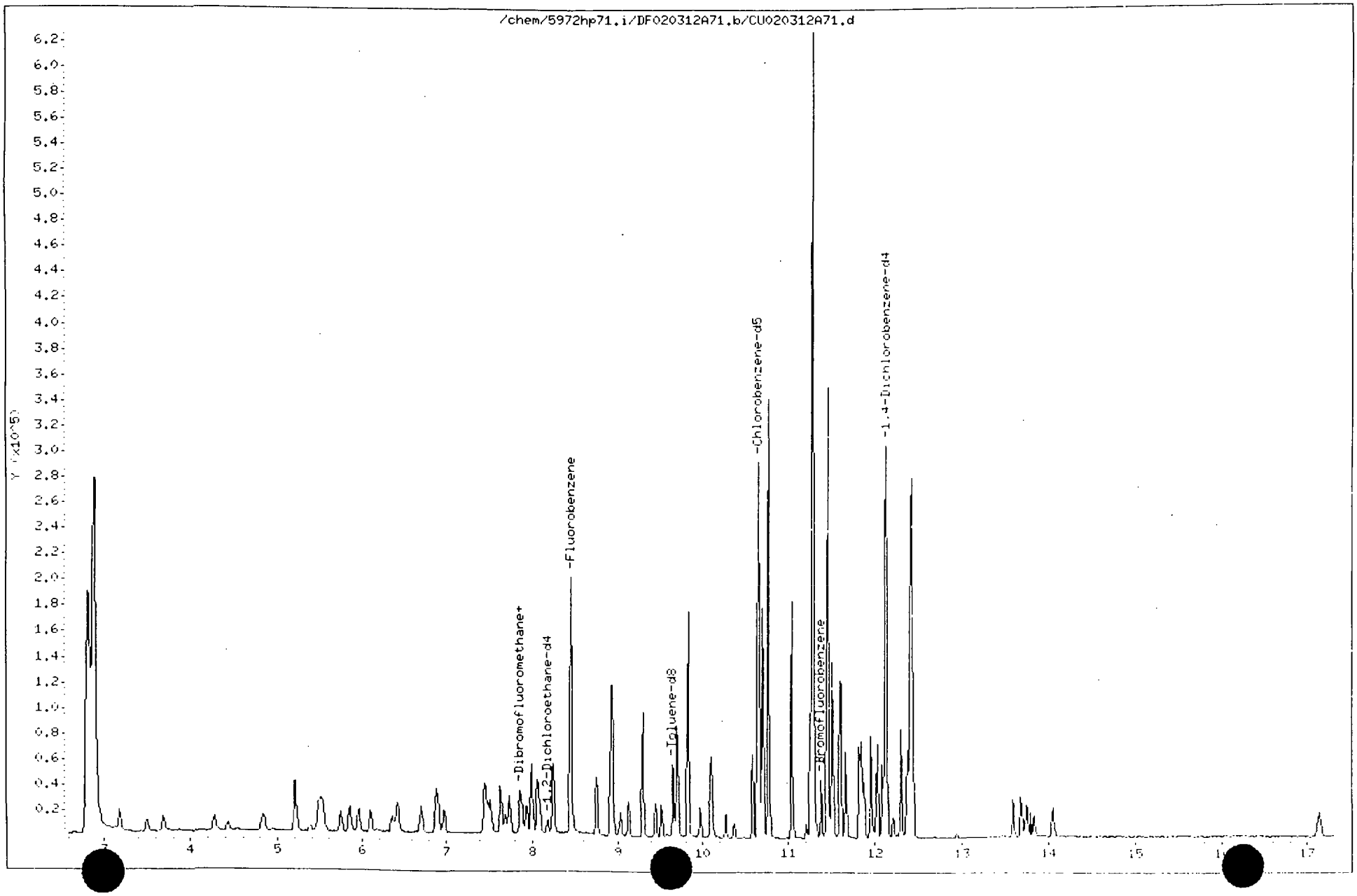




Data File: /chem/5972hp71.i/DF020312A71.b/CU020312A71.d
Date : 12-MAR-2002 09:16
Client ID: VSTD001
Sample Info:
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp71.i

Operator: 2423
Column diameter: 0.32



Data File: /chem/5972hp71.i/DF020312A71.b/CU020312A71.d
Report Date: 14-Mar-2002 12:03

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp71.i/DF020312A71.b/CU020312A71.d
Lab Smp Id: VSTD001 Client Smp ID: VSTD001
Inj Date : 12-MAR-2002 09:16
Operator : 2423 Inst ID: 5972hp71.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp71.i/DF020312A71.b/W8260-B-25MLv6.m
Meth Date : 14-Mar-2002 12:03 hubbard Quant Type: ISTD
Cal Date : 12-MAR-2002 09:16 Cal File: CU020312A71.d
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

nd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 1 Fluorobenzene	96	8.460	8.460	(1.000)	177721	125.000	
* 2 Chlorobenzene-d5	117	10.655	10.655	(1.000)	159235	125.000	
* 3 1,4-Dichlorobenzene-d4	152	12.121	12.121	(1.000)	71949	125.000	
4 Dibromofluoromethane	113	7.880	7.880	(0.931)	12088	25.0000	28.14
5 1,2-Dichloroethane-d4	65	8.185	8.185	(0.967)	6006	25.0000	28.19
6 Toluene-d8	98	9.651	9.651	(0.906)	33271	25.0000	24.14
7 Bromofluorobenzene	95	11.373	11.373	(0.938)	12690	25.0000	25.08
8 Dichlorodifluoromethane	85	3.186	3.186	(0.377)	19801	25.0000	27.55
Chloromethane	50	3.491	3.491	(0.413)	15487	25.0000	28.48
10 Vinyl Chloride	62	3.588	3.588	(0.436)	14842	25.0000	28.[illegible]
11 Bromomethane	94	4.268	4.268	(0.505)	11990	25.0000	29.17 (M)
12 Chloroethane	64	4.426	4.426	(0.523)	7074	25.0000	28.81
13 Trichlorofluoromethane	101	4.829	4.829	(0.571)	17027	25.0000	28.11
14 Diethylether	74	5.213	5.213	(0.616)	19039	250.000	2[illegible]
15 Acrolein	56	5.380	5.380	(0.636)	4810	250.000	[illegible]

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Data File: /chem/5972hp71.i/DF020312A71.b/CU020312A71.d
Report Date: 14-Mar-2002 12:03

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
16 1,1-Dichloroethene	96	5.538	5.538	(0.655)	7295	25.0000	28.08
17 1,1,1-trichloro-2,2,2-trifluo	117	5.489	5.489	(0.649)	5921	25.0000	27.49
20 1,1,2-trichloro-1,2,2-trifluo	85	5.518	5.518	(0.652)	5689	25.0000	29.19
18 Acetone	43	5.567	5.567	(0.658)	4625	125.000	152.6(M)
19 Iodomethane	142	5.744	5.744	(0.679)	20135	25.0000	27.98
21 Carbon disulfide	76	5.853	5.853	(0.692)	33147	25.0000	28.69
22 3-Chloropropene	39	5.961	5.961	(0.705)	8599	25.0000	29.43
23 Acetonitrile	41	5.961	5.961	(0.705)	13454	25.0000	28.92
163 Methyl acetate	43	5.951	5.951	(0.703)	2499	25.0000	30.02
24 Methylene Chloride	84	6.099	6.099	(0.721)	8569	25.0000	29.75
25 Acrylonitrile	53	6.354	6.354	(0.751)	10592	250.000	292.9
26 tert-butyl alcohol	59	6.177	6.177	(0.730)	2143	250.000	308.3
27 trans-1,2-Dichloroethene	96	6.423	6.423	(0.759)	9519	25.0000	28.44
28 Methyl-tert-butyl ether	73	6.404	6.404	(0.757)	10955	25.0000	29.77
29 n-hexane	57	6.709	6.709	(0.793)	10782	25.0000	27.42
30 1,1-Dichloroethane	63	6.886	6.886	(0.814)	14965	25.0000	28.65
32 Vinyl acetate	43	6.886	6.886	(0.814)	25527	50.0000	58.63
33 Isopropyl ether	45	6.906	6.906	(0.816)	24016	25.0000	28.83
35 2,2-Dichloropropane	77	7.466	7.466	(0.883)	12901	25.0000	28.22
34 cis-1,2-Dichloroethene	96	7.457	7.457	(0.881)	9879	25.0000	28.21
31 Chloroprene	53	6.974	6.974	(0.824)	10946	25.0000	27.86
37 2-butanone	43	7.437	7.437	(0.879)	6113	125.000	149.4
36 Propionitrile	54	7.486	7.486	(0.885)	19112	1250.00	1478
38 Methyl acrylate	55	7.516	7.516	(0.888)	28490	250.000	292.2
39 Methacrylonitrile	41	7.634	7.634	(0.902)	19217	250.000	290.2
40 Bromochloromethane	128	7.693	7.693	(0.909)	3911	25.0000	27.99
42 Chloroform	83	7.732	7.732	(0.914)	18095	25.0000	28.86
41 Tetrahydrofuran	42	7.732	7.732	(0.914)	3658	100.000	124.3
43 1,1,1-Trichloroethane	97	7.929	7.929	(0.937)	14586	25.0000	27.58
45 Pentafluorobenzene	168	7.860	7.860	(0.929)	19429	25.0000	27.23
44 Cyclohexane	84	7.998	7.998	(0.945)	9555	25.0000	26.88
46 1-chlorobutane	56	7.998	7.998	(0.945)	30941	25.0000	27.52
53 Isobutyl alcohol	43	8.067	8.067	(0.953)	5353	1250.00	1452
47 1,1-dichloropropene	75	8.067	8.067	(0.953)	11995	25.0000	27.09
48 Carbon Tetrachloride	117	8.086	8.086	(0.956)	13376	25.0000	27.61
51 Benzene	78	8.254	8.254	(0.976)	38724	25.0000	25.16
49 1,2-Dichloroethane	62	8.244	8.244	(0.974)	7484	25.0000	26.39
52 Crotonaldehyde	41	8.441	8.441	(0.998)	4444	250.000	254.2
50 Trichloroethene	130	8.755	8.755	(1.035)	14144	25.0000	28.71
54 Methylcyclohexane	83	8.923	8.923	(1.055)	16732	25.0000	26.71
55 1,2-Dichloropropane	63	8.933	8.933	(1.056)	11715	25.0000	29.22
56 Dibromomethane	174	9.141	9.141	(1.069)	5319	25.0000	29.54
59 Methylmethacrylate	69	9.942	9.942	(1.157)	22626	250.000	290.1
57 1,4-dioxane	88	9.111	9.111	(1.066)	1486	1250.00	1278
58 Bromodichloromethane	83	9.129	9.129	(1.079)	14628	25.0000	29.76
60 2-chloroethyl vinyl ether	63	9.297	9.297	(1.099)	32261	250.000	286.9
61 cis-1,3-Dichloropropene	75	9.444	9.444	(1.116)	12122	25.0000	27.76

Sat 3/14/02

Data File: /chem/5972hp71.i/DF020312A71.b/CU020312A71.d
Report Date: 14-Mar-2002 12:03

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
62 4-Methyl-2-pentanone	43	9.513	9.513	(0.893)	18135	125.000	131.4
63 Toluene	92	9.710	9.710	(0.911)	28276	25.0000	24.98
64 trans-1,3-Dichloropropene	75	9.828	9.828	(0.922)	10329	25.0000	26.51(H)
66 Ethylmethacrylate	69	9.828	9.828	(0.922)	63273	250.000	259.8
65 1,1,2-Trichloroethane	97	9.966	9.966	(0.935)	6235	25.0000	26.53
67 1,3-Dichloropropane	76	10.084	10.084	(0.946)	10006	25.0000	26.22
68 Tetrachloroethene	164	10.104	10.104	(0.948)	10166	25.0000	24.42
69 2-hexanone	43	10.084	10.084	(0.946)	11544	125.000	129.4
70 Dibromochloromethane	129	10.271	10.271	(0.964)	8947	25.0000	25.89
71 1,2-Dibromoethane	107	10.369	10.369	(0.973)	6575	25.0000	25.67
72 1-Chlorohexane	55	10.586	10.586	(0.994)	11413	25.0000	23.94
73 Chlorobenzene	112	10.674	10.674	(1.002)	31188	25.0000	25.52
74 1,1,1,2-Tetrachloroethane	131	10.704	10.704	(1.005)	9762	25.0000	25.25
75 Ethylbenzene	106	10.704	10.704	(1.005)	25227	25.0000	30.03
76 m,p-Xylene	106	10.773	10.773	(1.011)	84789	50.0000	66.16
77 o-Xylene	106	11.038	11.038	(1.036)	27753	25.0000	29.53
78 Styrene	104	11.038	11.038	(1.036)	27292	25.0000	24.79
79 Bromoform	173	11.206	11.206	(1.052)	4363	25.0000	26.07
81 Isopropyl Benzene	105	11.245	11.245	(1.055)	46152	25.0000	24.27
80 cis-1,4-dichloro-2-butene	75	11.274	11.274	(1.058)	82747	1000.00	1104
82 1,1,2,2-Tetrachloroethane	83	11.422	11.422	(0.942)	7283	25.0000	26.46
84 Bromobenzene	156	11.501	11.501	(1.079)	11119	25.0000	25.72
83 1,2,3-Trichloropropane	110	11.471	11.471	(1.077)	1439	25.0000	25.97
85 trans-1,4-dichloro-2-butene	53	11.442	11.442	(1.074)	54715	1000.00	1087
86 n-Propyl Benzene	91	11.501	11.501	(0.949)	60068	25.0000	24.36
87 2-Chlorotoluene	126	11.599	11.599	(0.957)	12259	25.0000	24.74
88 1,3,5-Trimethyl Benzene	105	11.589	11.589	(0.956)	35934	25.0000	24.14
89 4-Chlorotoluene	126	11.658	11.658	(0.962)	11553	25.0000	24.20
91 tert-Butyl Benzene	119	11.816	11.816	(0.975)	34247	25.0000	23.79
90 Pentachloroethane	167	11.875	11.875	(0.980)	6358	25.0000	24.89
92 1,2,4-Trimethyl Benzene	105	11.845	11.845	(0.977)	36295	25.0000	24.59
93 sec-Butyl Benzene	105	11.953	11.953	(0.986)	48822	25.0000	23.47
94 1,3-Dichlorobenzene	146	12.081	12.081	(0.997)	21467	25.0000	25.26
95 p-Isopropyl Toluene	119	12.022	12.022	(0.992)	38381	25.0000	23.75
96 1,4-Dichlorobenzene	146	12.140	12.140	(1.002)	21483	25.0000	25.65
97 Benzyl Chloride	91	12.199	12.199	(1.006)	9727	25.0000	25.02
99 n-Butyl Benzene	91	12.298	12.298	(1.015)	39235	25.0000	23.60
98 1,2-Dichlorobenzene	146	12.406	12.406	(1.024)	17764	25.0000	25.84
100 1,2-diethylbenzene	119	12.367	12.367	(1.020)	17810	25.0000	23.72
101 1,2-Dibromo-3-Chloropropane	75	12.937	12.937	(1.067)	799	25.0000	28.61
102 1,2,4-Trichlorobenzene	180	13.597	13.597	(1.122)	10042	25.0000	25.30
103 Hexachlorobutadiene	225	13.695	13.695	(1.130)	6290	25.0000	23.89
104 Naphthalene	128	13.843	13.843	(1.142)	14200	25.0000	26.82
105 1,2,3-Trichlorobenzene	180	14.059	14.059	(1.160)	8194	25.0000	25.84
M 174 1,2-Dichloroethene (total)	96				19398	50.0000	56.43
M 177 Xylene (total)	106				112542	25.0000	119.7

3a# 3/14/02

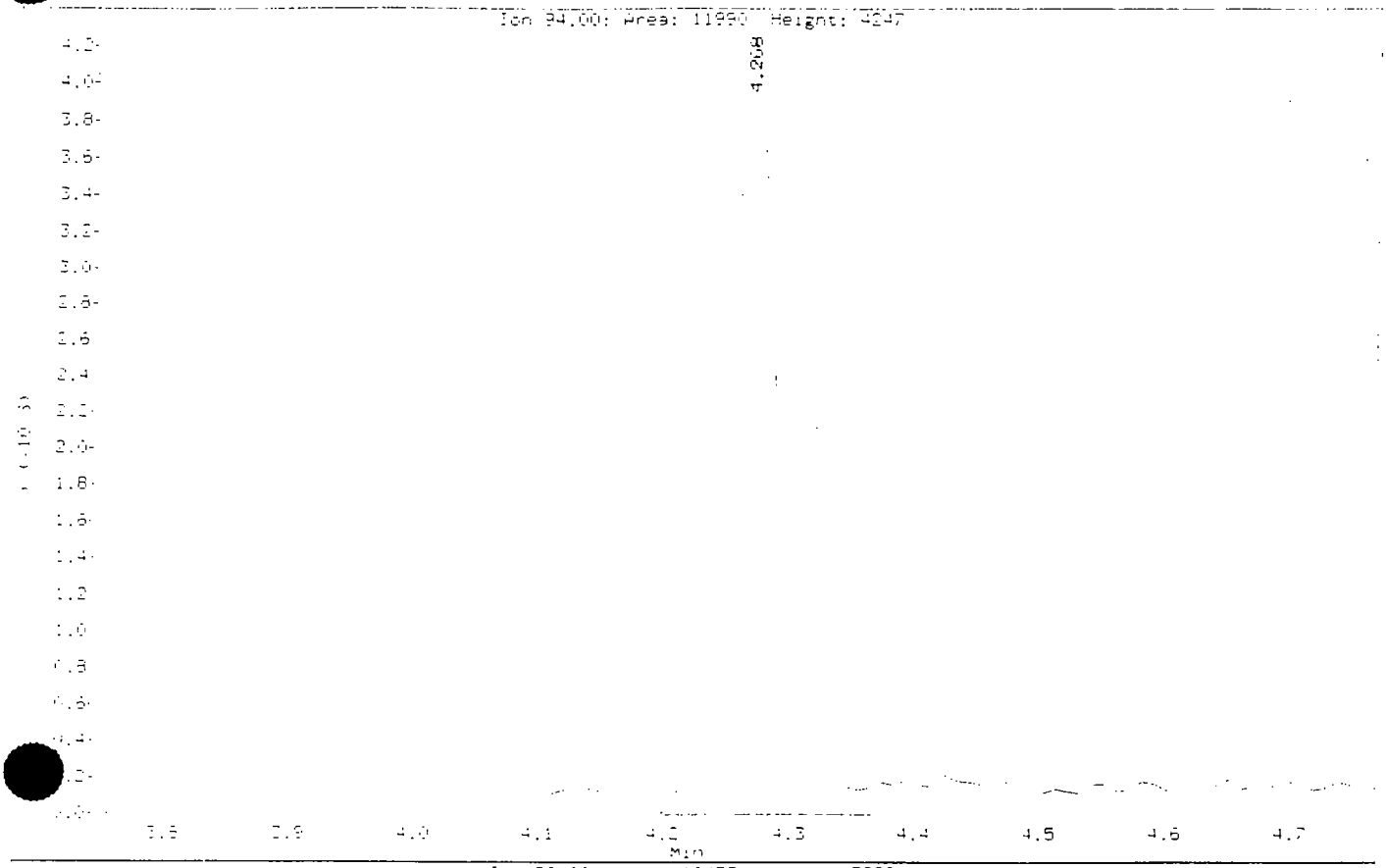
Data File: /chem/5972hp71.i/DF020312A71.b/CU020312A71.d
Report Date: 14-Mar-2002 12:03

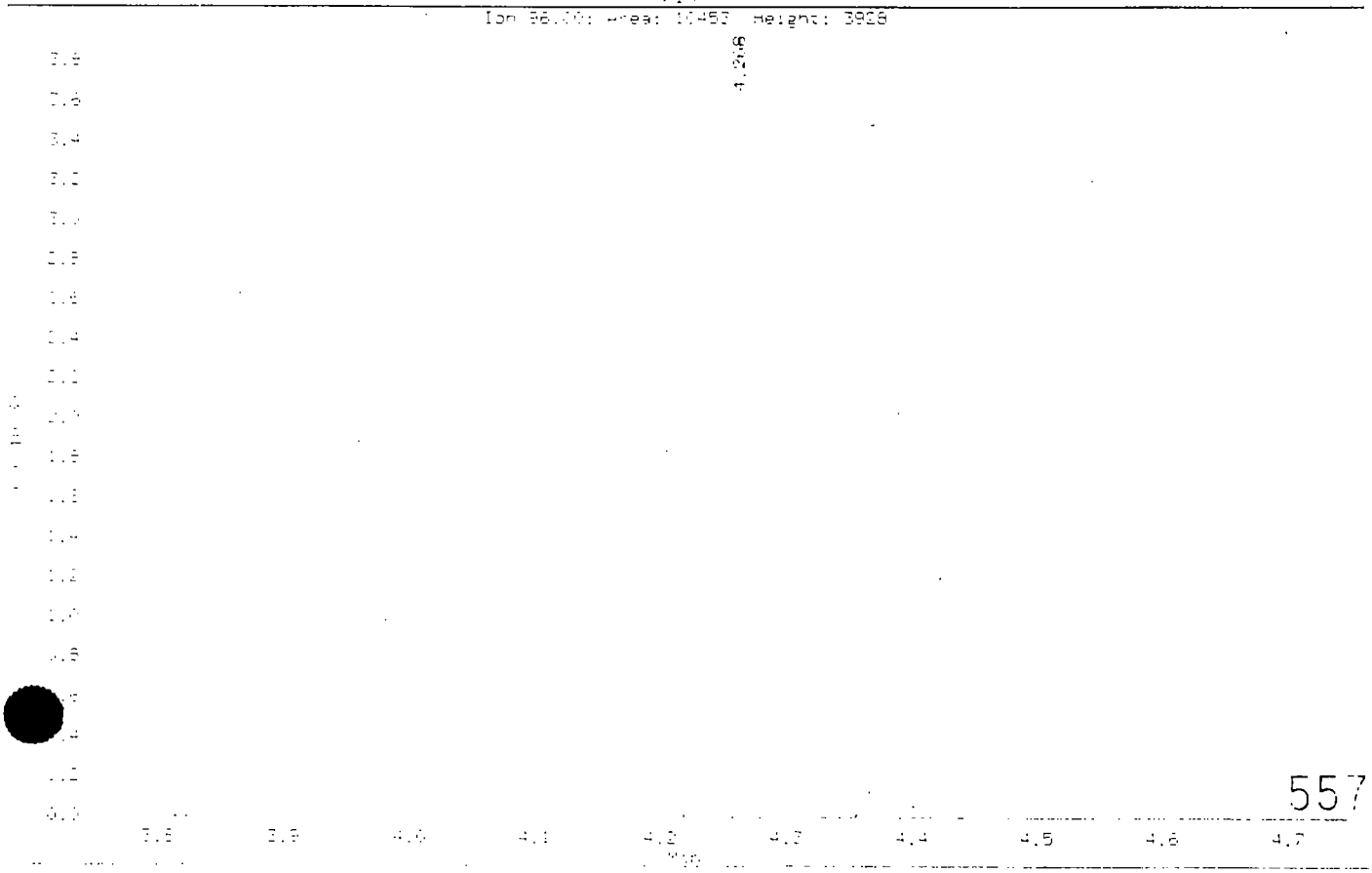
Flag Legend

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

Data File: /chem/5972hp71.i/DF020312A71.b/CU020312A71.d
Injection Date: 12-MAR-2002 09:16
Instrument: 5972hp71.i
Client Sample ID: VSTD001

Compound: Bromomethane
Number: 74-83-9





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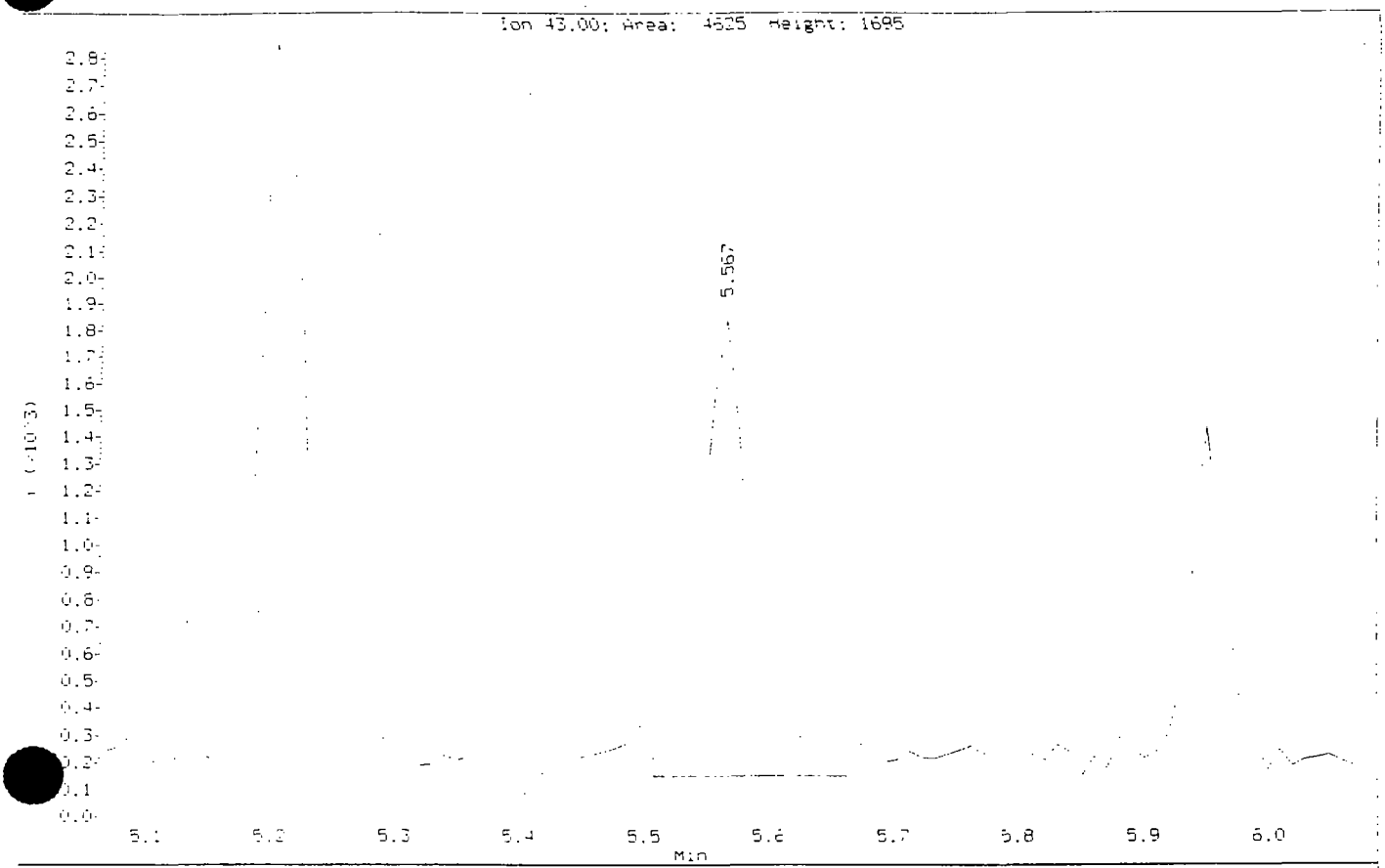
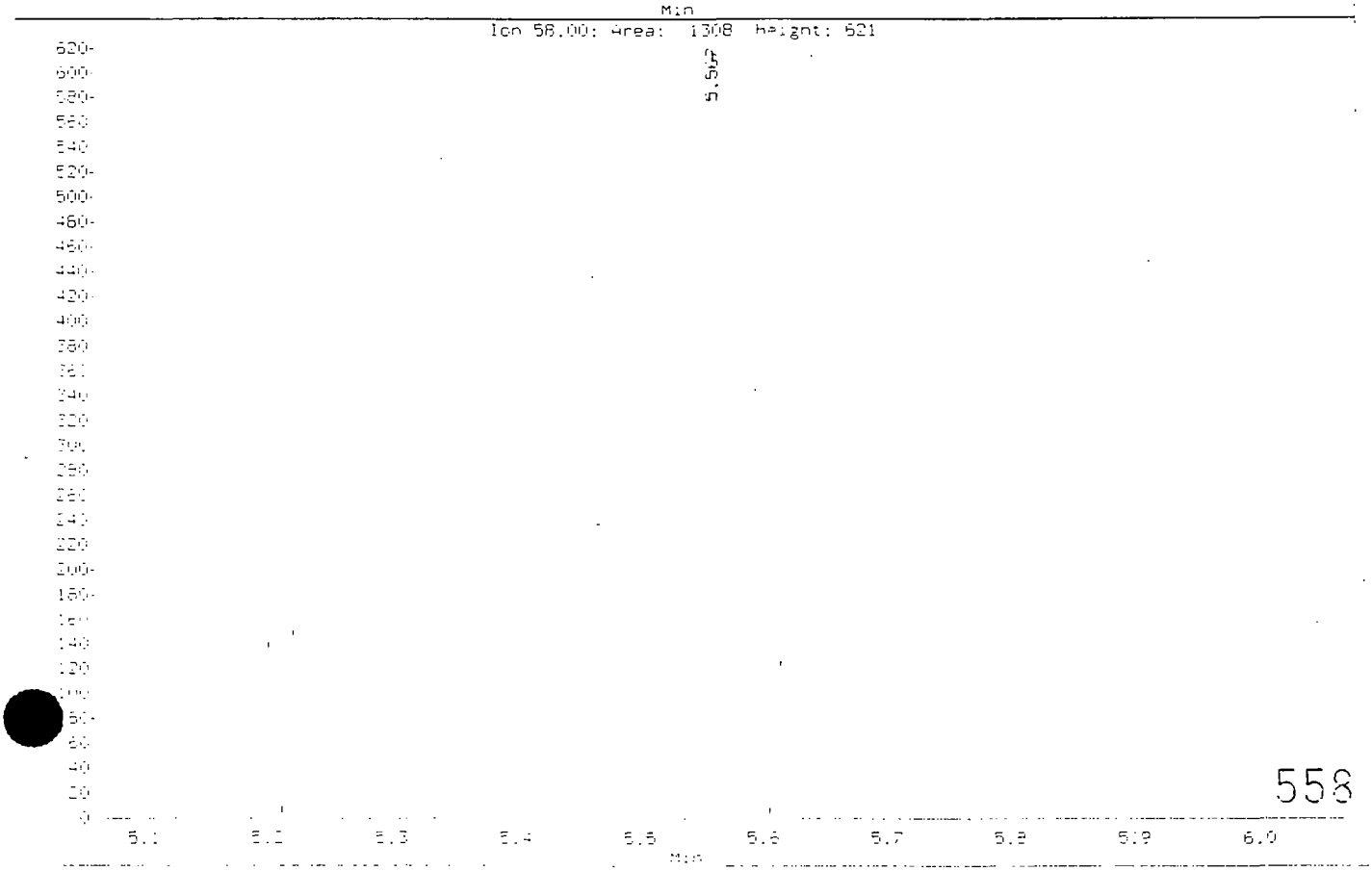
Injection Date: 12-MAR-2002 09:16
Instrument: 5972hp71.i
Client Sample ID: VSTD001

pound: Acetone
Number: 67-64-1

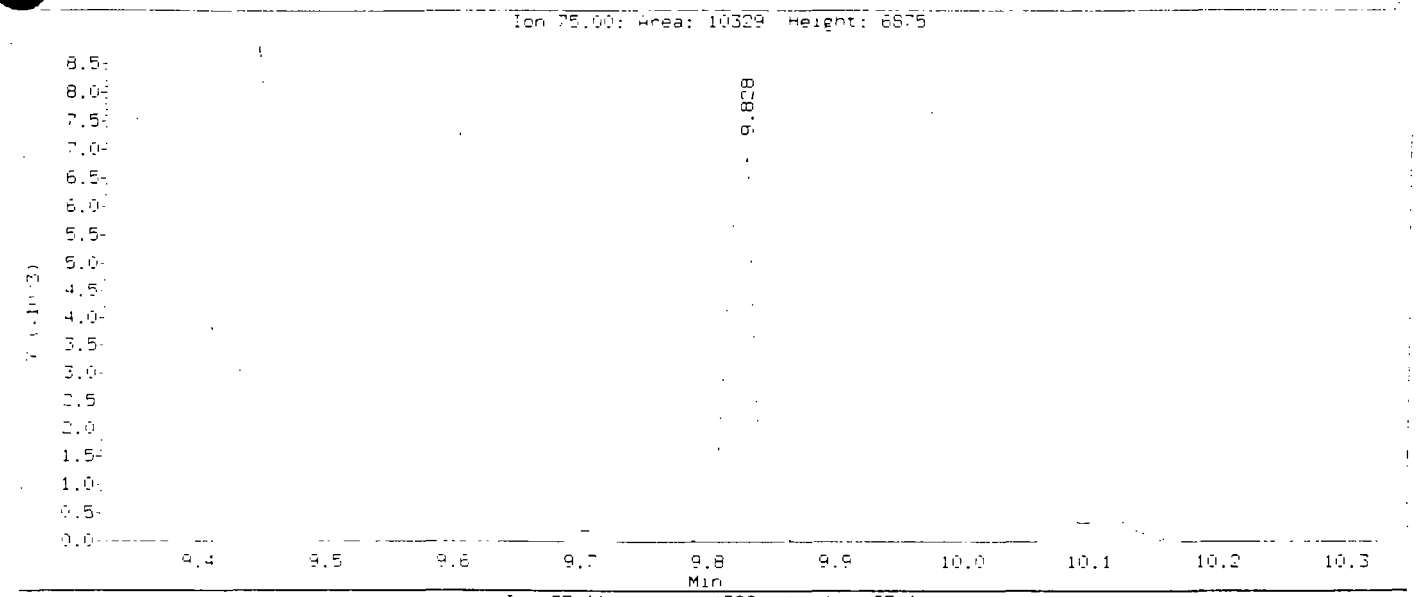




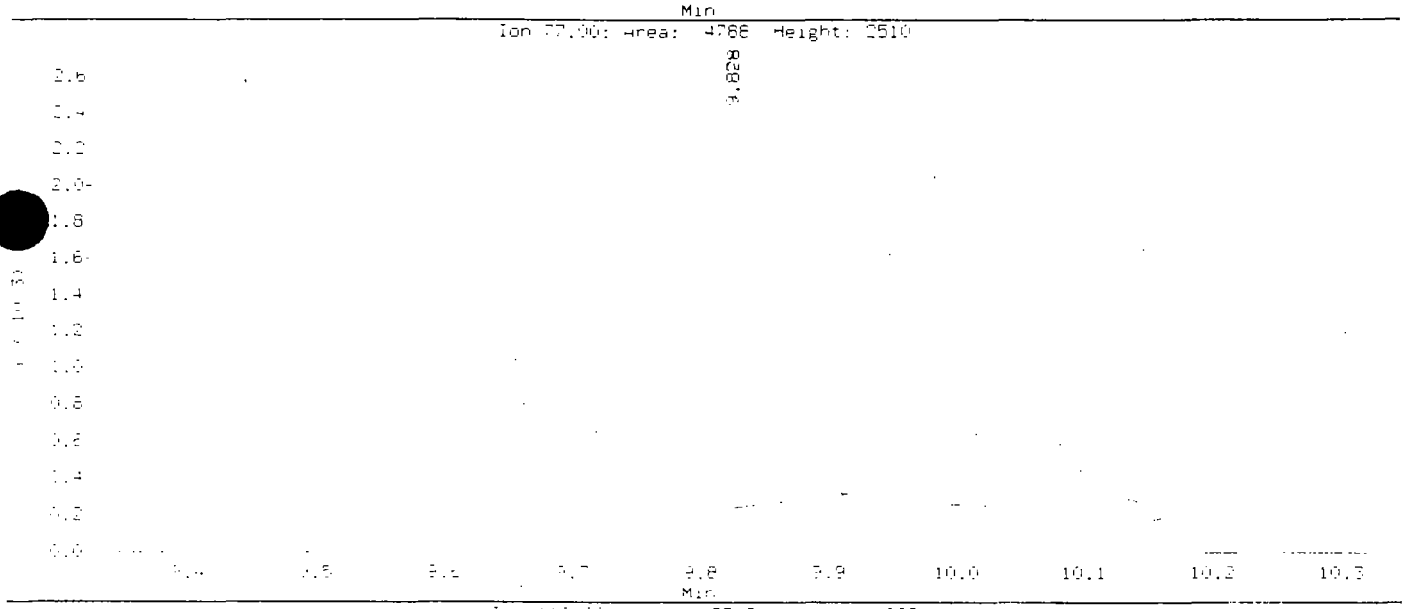
Data File: /chem/5972hp71.i/DF020312-71.d CL020312-71.d
Injection Date: 12-MAR-2002 09:16
Instrument: 5972hp71.i
Client Sample ID: VSTD001

Compound: trans-1,3-Dichloropropene
CAS Number: 10061-02-6

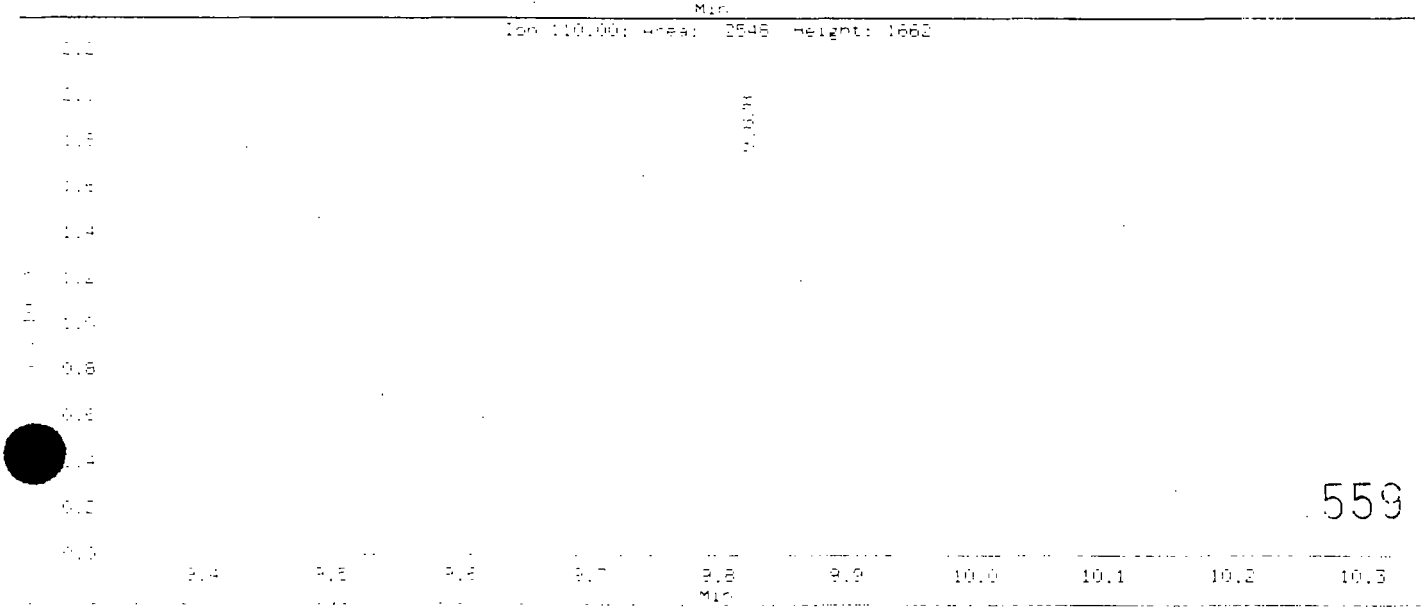
Ion 75.00: Area: 10329 Height: 6875



Ion 77.00: Area: 4788 Height: 2510



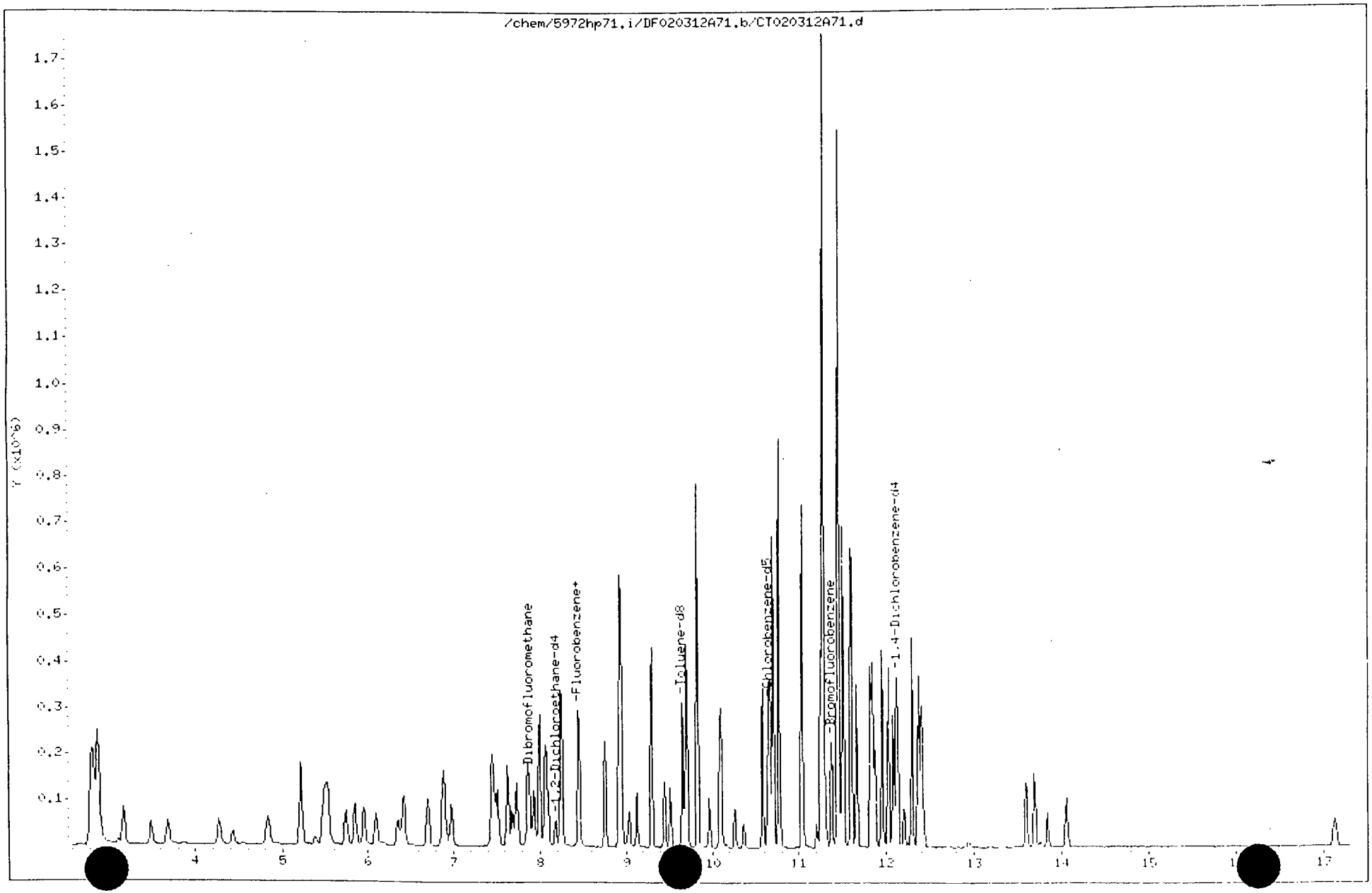
Ion 110.00: Area: 2548 Height: 1662



Data File: /chem/5972hp71.i/DF020312A71.b/CT020312A71.d
Date : 12-MAR-2002 08:49
Client ID: VSTD005
Sample Info:
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp71.i

Operator: 2423
Column diameter: 0.32



Data File: /chem/5972hp71.i/DF020312A71.b/CT020312A71.d
Report Date: 14-Mar-2002 12:03

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp71.i/DF020312A71.b/CT020312A71.d
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 12-MAR-2002 08:49
Operator : 2423 Inst ID: 5972hp71.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp71.i/DF020312A71.b/W8260-B-25MLv6.m
Meth Date : 14-Mar-2002 12:03 hubbard Quant Type: ISTD
Cal Date : 12-MAR-2002 08:49 Cal File: CT020312A71.d
Als bottle: 3 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

d Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 1 Fluorobenzene	96	8.459	8.459	(1.000)	232683	125.000	
* 2 Chlorobenzene-d5	117	10.643	10.643	(1.000)	163635	125.000	
* 3 1,4-Dichlorobenzene-d4	152	12.119	12.119	(1.000)	73162	125.000	
4 Dibromofluoromethane	113	7.878	7.878	(0.931)	61473	125.000	125.0
5 1,2-Dichloroethane-d4	65	8.183	8.183	(0.967)	30422	125.000	125.0
6 Toluene-d8	98	9.650	9.650	(0.997)	183123	125.000	125.0
7 Bromofluorobenzene	95	11.372	11.372	(0.938)	64099	125.000	125.0
8 Trichlorodifluoromethane	85	3.185	3.185	(0.376)	105601	125.000	125.0
9 Chloromethane	50	3.491	3.491	(0.412)	76615	125.000	125.0
10 Vinyl Chloride	62	3.687	3.687	(0.436)	74343	125.000	125.0
11 Bromomethane	94	4.287	4.287	(0.504)	56040	125.000	125.0
12 Chloroethane	64	4.425	4.425	(0.522)	34062	125.000	125.0
13 Trichlorofluoromethane	101	4.828	4.828	(0.571)	86770	125.000	125.0
14 Diethylether	74	5.202	5.202	(0.615)	87592	1250.00	1250
15 Acrolein	56	5.379	5.379	(0.636)	20260	1250.00	1250

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Data File: /chem/5972hp71.i/DF020312A71.b/CT020312A71.d
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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
16 1,1-Dichloroethene	96	5.536	5.536	(0.654)	37283	125.000	125.0
17 1,1,1-trichloro-2,2,2-trifluo	117	5.487	5.487	(0.649)	31735	125.000	125.0
20 1,1,2-trichloro-1,2,2-trifluo	85	5.507	5.507	(0.651)	28817	125.000	125.0
18 Acetone	43	5.556	5.556	(0.657)	18986	625.000	625.0(M)
19 Iodomethane	142	5.743	5.743	(0.679)	103736	125.000	125.0
21 Carbon disulfide	76	5.851	5.851	(0.692)	161223	125.000	125.0
22 3-Chloropropene	39	5.950	5.950	(0.703)	39331	125.000	125.0
23 Acetonitrile	41	5.950	5.950	(0.703)	64213	125.000	125.0
163 Methyl acetate	43	5.950	5.950	(0.703)	10889	125.000	125.0
24 Methylene Chloride	84	6.097	6.097	(0.721)	38260	125.000	125.0
25 Acrylonitrile	53	6.353	6.353	(0.751)	49020	1250.00	1250
26 tert-butyl alcohol	59	6.176	6.176	(0.730)	8721	1250.00	1250
27 trans-1,2-Dichloroethene	96	6.422	6.422	(0.759)	47225	125.000	125.0
28 Methyl-tert-butyl ether	73	6.393	6.393	(0.756)	48722	125.000	125.0
29 n-hexane	57	6.707	6.707	(0.793)	58102	125.000	125.0
30 1,1-Dichloroethane	63	6.875	6.875	(0.813)	73027	125.000	125.0
32 Vinyl acetate	43	6.885	6.885	(0.814)	117906	250.000	250.0
33 Isopropyl ether	45	6.904	6.904	(0.816)	115435	125.000	125.0
35 2,2-Dichloropropane	77	7.455	7.455	(0.881)	65183	125.000	125.0
34 cis-1,2-Dichloroethene	96	7.455	7.455	(0.881)	49964	125.000	125.0
31 Chloroprene	53	6.973	6.973	(0.824)	56956	125.000	125.0
37 2-butanone	43	7.426	7.426	(0.878)	26942	625.000	625.0
36 Propionitrile	54	7.485	7.485	(0.885)	86583	6250.00	6250
38 Methyl acrylate	55	7.514	7.514	(0.888)	132658	1250.00	1250
39 Methacrylonitrile	41	7.632	7.632	(0.902)	90962	1250.00	1250
40 Bromochloromethane	128	7.691	7.691	(0.909)	20130	125.000	125.0
42 Chloroform	83	7.731	7.731	(0.914)	86756	125.000	125.0
41 Tetrahydrofuran	42	7.731	7.731	(0.914)	14599	500.000	500.0
43 1,1,1-Trichloroethane	97	7.928	7.928	(0.937)	77593	125.000	125.0
45 Pentafluorobenzene	168	7.859	7.859	(0.929)	106361	125.000	125.0
44 Cyclohexane	84	7.996	7.996	(0.945)	53782	125.000	125.0
46 1-chlorobutane	56	7.996	7.996	(0.945)	165460	125.000	125.0
50 Isobutyl alcohol	43	8.065	8.065	(0.953)	25386	6250.00	6250
47 1,1-dichloropropene	75	8.065	8.065	(0.953)	66397	125.000	125.0
48 Carbon Tetrachloride	117	8.085	8.085	(0.956)	71024	125.000	125.0
51 Benzene	78	8.252	8.252	(0.975)	250291	125.000	125.0
49 1,2-Dichloroethane	62	8.242	8.242	(0.974)	42848	125.000	125.0
52 Crotonaldehyde	41	8.439	8.439	(0.998)	28128	1250.00	1250
53 Trichloroethene	130	8.754	8.754	(1.035)	68652	125.000	125.0
54 Methylcyclohexane	83	8.921	8.921	(1.055)	95511	125.000	125.0
55 1,2 Dichloropropane	63	8.931	8.931	(1.056)	54525	125.000	125.0
56 Dibromomethane	174	9.040	9.040	(1.069)	24121	125.000	125.0
58 Methylmethacrylate	69	8.941	8.941	(1.057)	154507	1250.00	1250
57 1,4 dioxane	88	9.120	9.120	(1.066)	9208	6250.00	6250
59 Bromodichloromethane	83	9.128	9.128	(1.079)	65082	125.000	125.0
60 2-chloroethyl vinyl ether	63	9.295	9.295	(1.099)	162216	1250.00	1250
61 cis-1,3-Dichloropropene	75	9.442	9.442	(1.116)	68803	125.000	125.0

Data File: /chem/5972hp71.i/DF020312A71.b/CT020312A71.d
Report Date: 14-Mar-2002 12:03

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
62 4-Methyl-2-pentanone	43	9.512	9.512	(0.894)	84037	625.000	625.0
63 Toluene	92	9.699	9.699	(0.911)	145475	125.000	125.0
64 trans-1,3-Dichloropropene	75	9.817	9.817	(0.922)	47013	125.000	125.0(H)
66 Ethylmethacrylate	69	9.827	9.827	(0.923)	301336	1250.00	1250
65 1,1,2-Trichloroethane	97	9.964	9.964	(0.936)	28286	125.000	125.0
67 1,3-Dichloropropane	76	10.083	10.083	(0.947)	47384	125.000	125.0
68 Tetrachloroethene	164	10.102	10.102	(0.949)	54729	125.000	125.0
69 2-hexanone	43	10.083	10.083	(0.947)	55252	625.000	625.0
70 Dibromochloromethane	129	10.270	10.270	(0.965)	42813	125.000	125.0
71 1,2-Dibromoethane	107	10.368	10.368	(0.974)	32028	125.000	125.0
73 1-Chlorohexane	55	10.584	10.584	(0.994)	63856	125.000	125.0
72 Chlorobenzene	112	10.673	10.673	(1.003)	153771	125.000	125.0
74 1,1,1,2-Tetrachloroethane	131	10.702	10.702	(1.006)	49170	125.000	125.0
75 Ethylbenzene	106	10.702	10.702	(1.006)	86210	125.000	125.0
76 m,p-Xylene	106	10.771	10.771	(1.012)	222814	250.000	250.0
77 o-Xylene	106	11.037	11.037	(1.037)	98887	125.000	125.0
78 Styrene	104	11.037	11.037	(1.037)	142580	125.000	125.0
79 Bromoform	173	11.204	11.204	(1.053)	20582	125.000	125.0
81 Isopropyl Benzene	105	11.244	11.244	(1.056)	251434	125.000	125.0
80 cis-1,4-dichloro-2-butene	75	11.273	11.273	(1.059)	345142	5000.00	5000
82 1,1,2,2-Tetrachloroethane	83	11.421	11.421	(0.942)	32952	125.000	125.0
84 Bromobenzene	156	11.500	11.500	(1.080)	53933	125.000	125.0
83 1,2,3-Trichloropropane	110	11.470	11.470	(1.078)	6839	125.000	125.0
85 trans-1,4-dichloro-2-butene	53	11.441	11.441	(1.075)	236055	5000.00	5000
86 n-Propyl Benzene	91	11.500	11.500	(0.949)	321523	125.000	125.0
87 2-Chlorotoluene	126	11.598	11.598	(0.957)	63663	125.000	125.0
89 1,3,5-Trimethyl Benzene	105	11.588	11.588	(0.956)	195789	125.000	125.0
88 4-Chlorotoluene	126	11.657	11.657	(0.962)	62628	125.000	125.0
91 tert-Butyl Benzene	119	11.814	11.814	(0.975)	191773	125.000	125.0
90 Pentachloroethane	167	11.873	11.873	(0.980)	32615	125.000	125.0
92 1,2,4-Trimethyl Benzene	105	11.844	11.844	(0.977)	190666	125.000	125.0
93 sec-Butyl Benzene	105	11.952	11.952	(0.986)	280624	125.000	125.0
94 1,3-Dichlorobenzene	146	12.080	12.080	(0.997)	106907	125.000	125.0
95 p-Isopropyl Toluene	119	12.021	12.021	(0.992)	215708	125.000	125.0
96 1,4-Dichlorobenzene	146	12.139	12.139	(1.002)	103667	125.000	125.0
97 Benzyl Chloride	91	12.198	12.198	(1.006)	49362	125.000	125.0
99 n-Butyl Benzene	91	12.297	12.297	(1.015)	222070	125.000	125.0
98 1,2-Dichlorobenzene	146	12.405	12.405	(1.024)	84428	125.000	125.0
100 1,2-diethylbenzene	119	12.365	12.365	(1.020)	100288	125.000	125.0
101 1,2-Dibromo-3-Chloropropane	75	12.936	12.936	(1.067)	3037	125.000	125.0
102 1,2,4-Trichlorobenzene	180	13.605	13.605	(1.123)	49843	125.000	125.0
103 Hexachlorobutadiene	225	13.694	13.694	(1.130)	34943	125.000	125.0
104 Naphthalene	128	13.841	13.841	(1.142)	62338	125.000	125.0
105 1,2,3-Trichlorobenzene	180	14.058	14.058	(1.160)	28839	125.000	125.0
M 106 1,2-Dichloroethene (total)	96				97189	250.000	250.0
M 107 Xylene (total)	106				321701	125.000	406.7

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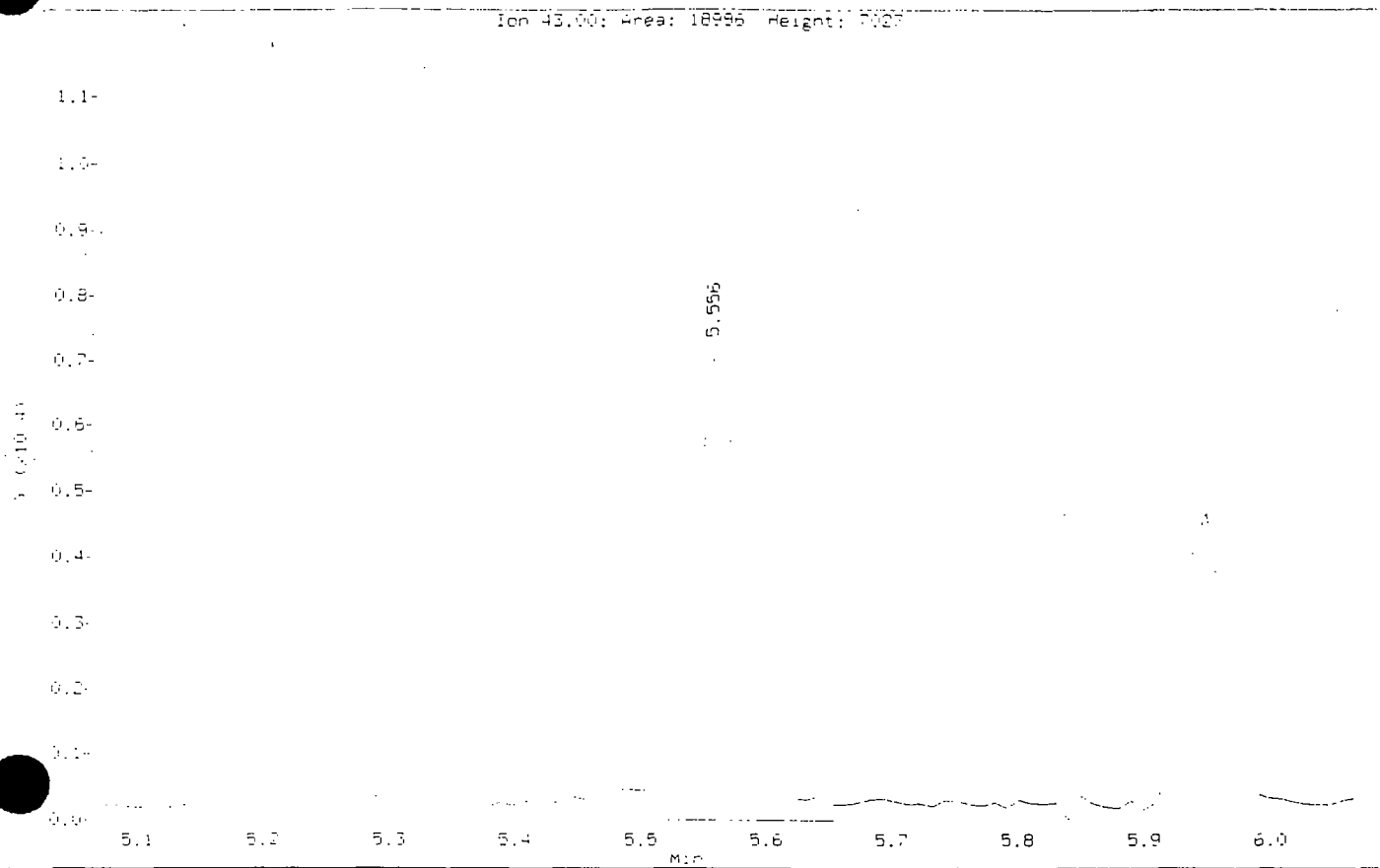
Data File: /chem/5972hp71.i/DF020312A71.b/CT020312A71.d
Report Date: 14-Mar-2002 12:03

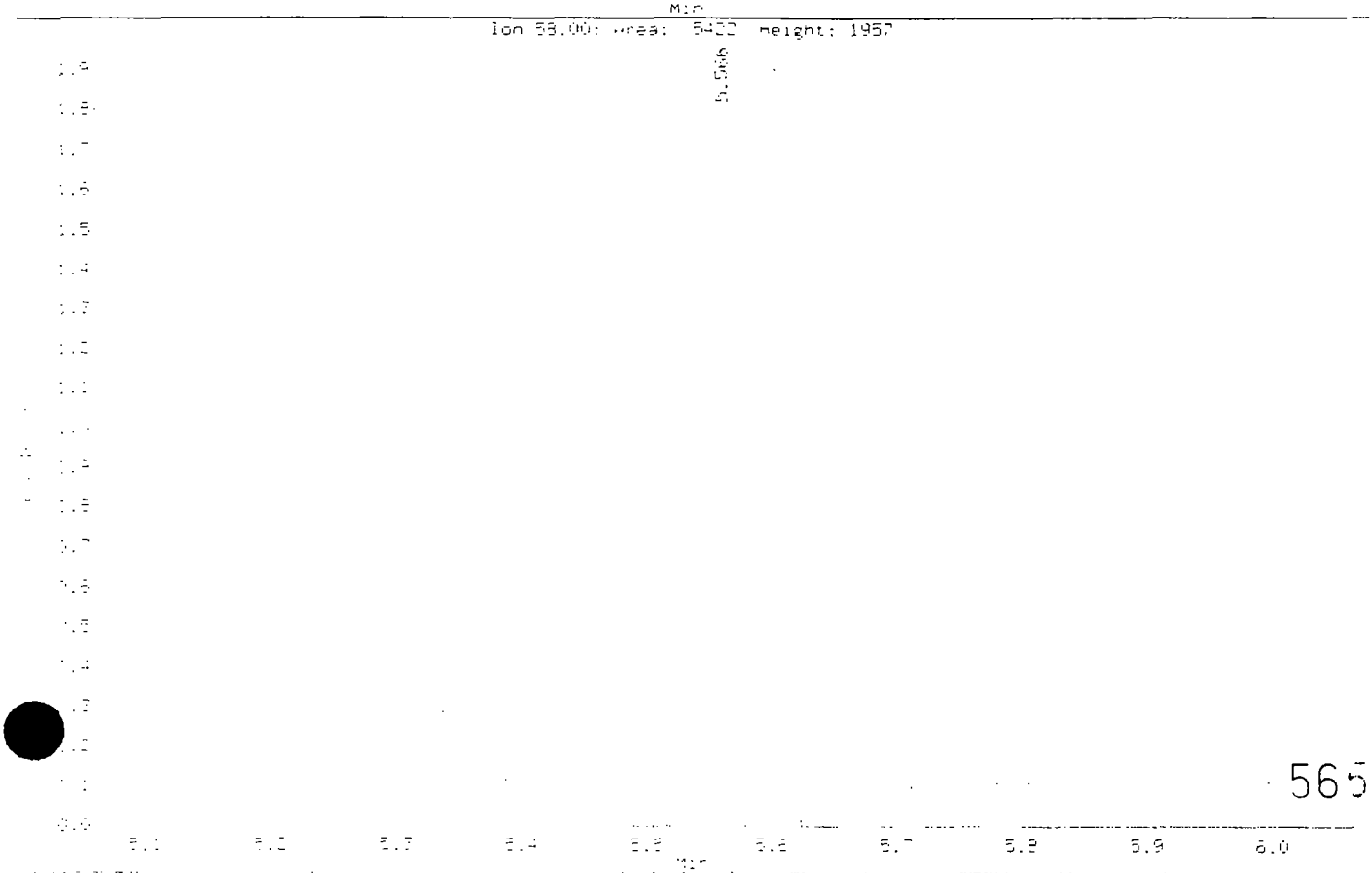
C Flag Legend

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

Data File: /chem/5972hp71.i/DF020312A71.b/CT120312-71.b
Injection Date: 12-MAR-2002 08:49
Instrument: 5972hp71.i
Client Sample ID: VSTD005

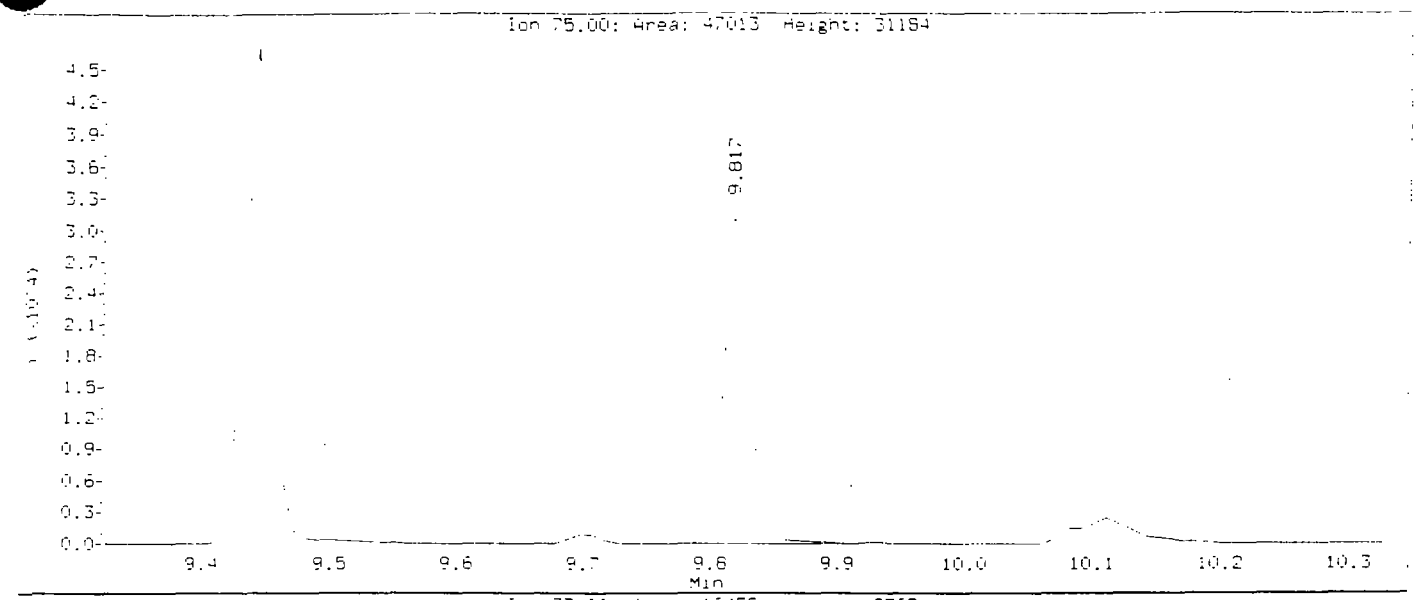
Compound: Acetone
CAS Number: 67-64-1

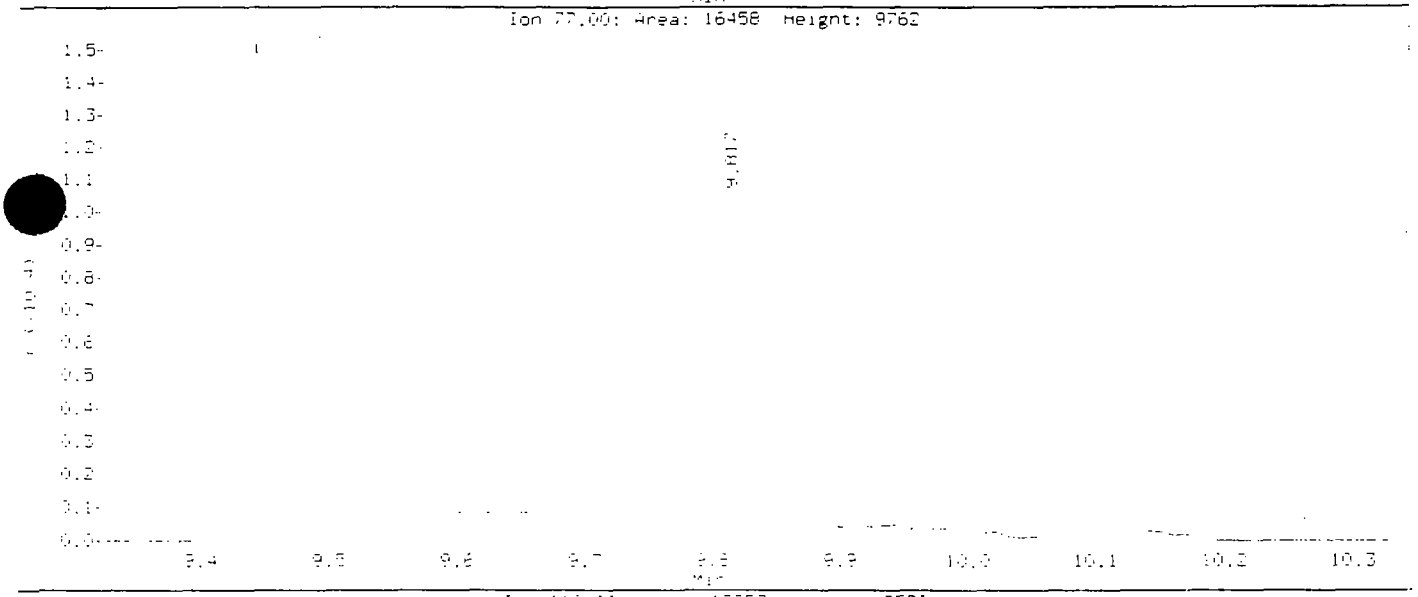


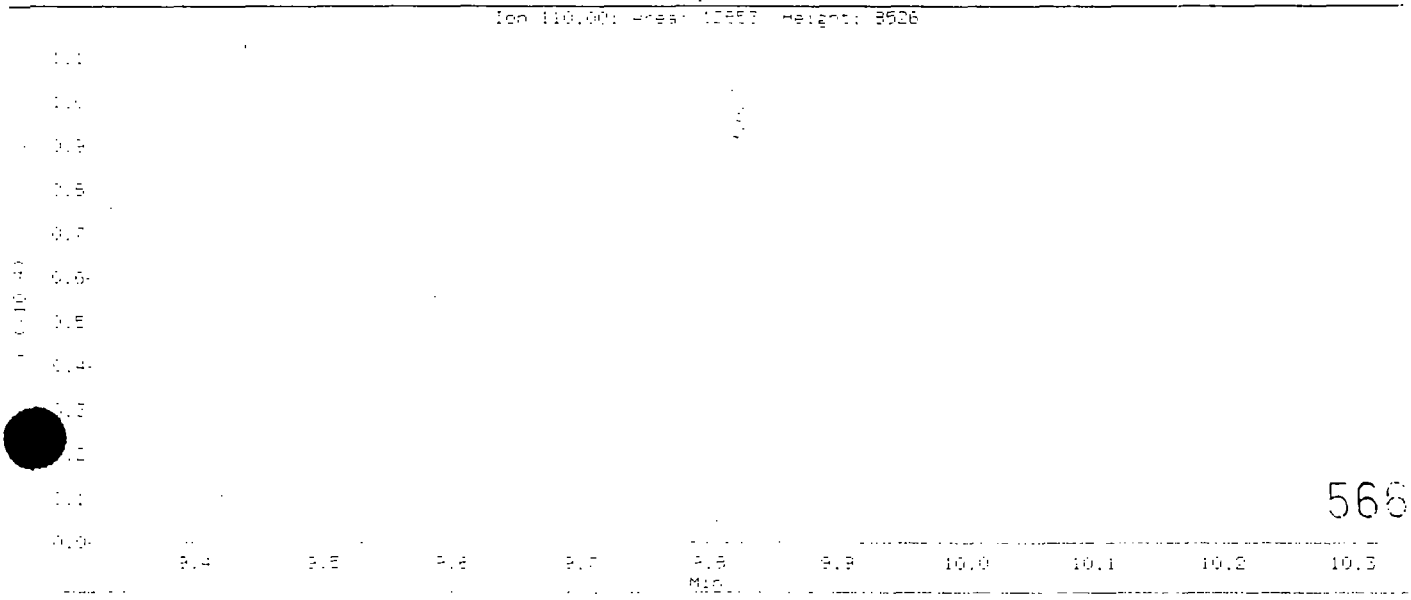


Data File: /chem/5972hp71.i/DF020312A71.b/CT020312A71.d
Injection Date: 12-MAR-2002 08:49
Instrument: 5972hp71.i
Client Sample ID: VSTD005

Compound: trans-1,3-Dichloropropene
CAS Number: 10061-02-6



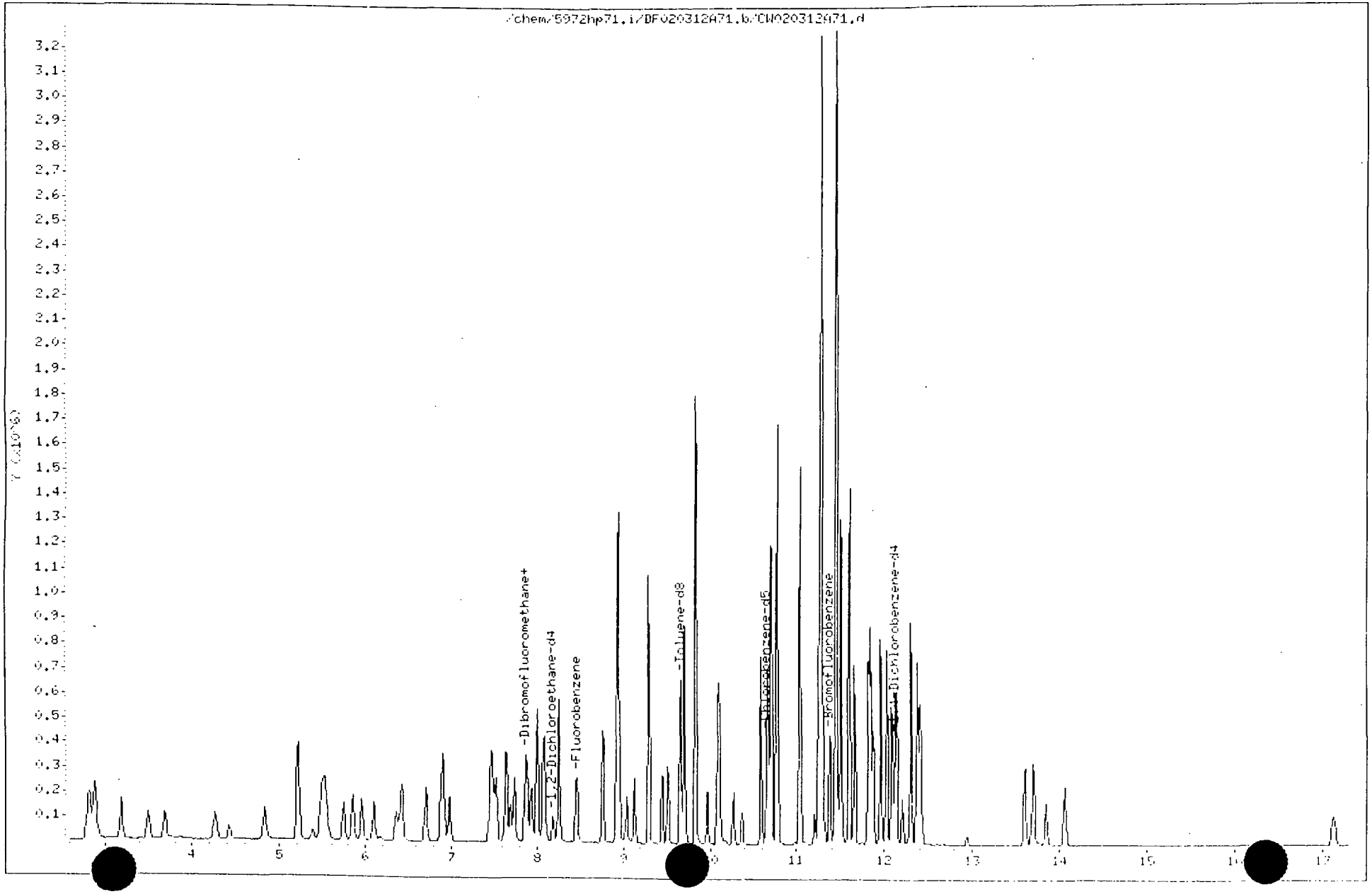




Data File: /chem/5972hp71.i/DF020312A71.b/CW020312A71.d
Date : 12-MAR-2002 10:10
Client ID: VSTD010
Sample Info:
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp71.i

Operator: 2423
Column diameter: 0.32



Data File: /chem/5972hp71.i/DF020312A71.b/CW020312A71.d
Report Date: 14-Mar-2002 12:03

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp71.i/DF020312A71.b/CW020312A71.d
Lab Smp Id: VSTD010 Client Smp ID: VSTD010
Inj Date : 12-MAR-2002 10:10
Operator : 2423 Inst ID: 5972hp71.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp71.i/DF020312A71.b/W8260-B-25MLv6.m
Meth Date : 14-Mar-2002 12:03 hubbard Quant Type: ISTD
Cal Date : 12-MAR-2002 10:10 Cal File: CW020312A71.d
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

nd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 1 Fluorobenzene	96	8.457	8.457	(1.000)	195845	125.000	
* 2 Chlorobenzene-d5	117	10.651	10.651	(1.000)	175121	125.000	
* 3 1,4-Dichlorobenzene-d4	152	12.118	12.118	(1.000)	79426	125.000	
4 Dibromofluoromethane	113	7.877	7.877	(0.921)	124547	250.000	251.9
5 1,1-Dichloroethane-d4	65	6.181	6.181	(0.967)	58376	250.000	241.5
6 Toluene-d8	98	9.458	9.458	(0.907)	286232	250.000	241.0
7 Bromofluorobenzene	95	11.370	11.370	(0.928)	141114	250.000	249.7
8 Dichlorodifluoromethane	85	3.181	3.181	(0.376)	211857	250.000	263.1
9 Chloromethane	50	3.439	3.439	(0.414)	170141	250.000	264.6
10 Vinyl Chloride	62	3.685	3.685	(0.436)	159541	250.000	262.8
11 Bromomethane	94	4.265	4.265	(0.504)	117142	250.000	256.6
12 Chloroethane	64	4.423	4.423	(0.522)	69467	250.000	252.9
13 Trichlorofluoromethane	101	4.826	4.826	(0.571)	178941	250.000	261.3
14 Diethylether	74	5.210	5.210	(0.616)	198392	2500.00	2659
15 Acrolein	56	5.177	5.177	(0.636)	46410	2500.00	2470

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Data File: /chem/5972hp71.i/DF020312A71.b/CW020312A71.d
Report Date: 14-Mar-2002 12:03

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
16 1,1-Dichloroethene	96	5.535	5.535	(0.654)	74135	250.000	256.9
17 1,1,1-trichloro-2,2,2-trifluo	117	5.485	5.485	(0.649)	62900	250.000	262.8
20 1,1,2-trichloro-1,2,2-trifluo	85	5.515	5.515	(0.652)	57448	250.000	258.8
18 Acetone	43	5.564	5.564	(0.658)	42973	1250.00	1133
19 Iodomethane	142	5.741	5.741	(0.679)	213070	250.000	266.9
21 Carbon disulfide	76	5.849	5.849	(0.692)	321903	250.000	250.5
22 3-Chloropropene	39	5.958	5.958	(0.704)	80321	250.000	247.9
23 Acetonitrile	41	5.959	5.958	(0.704)	120579	250.000	248.4
163 Methyl acetate	43	5.948	5.948	(0.703)	24438	250.000	225.1
24 Methylene Chloride	84	6.095	6.095	(0.721)	84370	250.000	251.3
25 Acrylonitrile	53	6.351	6.351	(0.751)	111728	2500.00	2580
26 tert-butyl alcohol	59	6.174	6.174	(0.730)	22659	2500.00	2696
27 trans-1,2-Dichloroethene	96	6.420	6.420	(0.759)	98377	250.000	256.4
28 Methyl-tert-butyl ether	73	6.401	6.401	(0.757)	112703	250.000	262.4
29 n-hexane	57	6.706	6.706	(0.793)	120107	250.000	271.6
30 1,1-Dichloroethane	63	6.883	6.883	(0.814)	160021	250.000	265.7
32 Vinyl acetate	43	6.883	6.883	(0.814)	267039	500.000	529.4
33 Isopropyl ether	45	6.902	6.902	(0.816)	261664	250.000	262.1
35 2,2-Dichloropropane	77	7.463	7.463	(0.882)	123961	250.000	244.5
34 cis-1,2-Dichloroethene	96	7.452	7.452	(0.881)	98720	250.000	248.3
31 Chloroprene	53	6.981	6.981	(0.825)	119413	250.000	266.8
37 2-butanone	43	7.434	7.434	(0.879)	60975	1250.00	1248
36 Propionitrile	54	7.483	7.483	(0.885)	191942	12500.0	12840
38 Methyl acrylate	55	7.512	7.512	(0.888)	293608	2500.00	2557
[illegible] Methacrylonitrile	41	7.630	7.630	(0.902)	201876	2500.00	2652
[illegible] Bromochloromethane	128	7.690	7.690	(0.909)	42170	250.000	260.1
42 Chloroform	83	7.739	7.739	(0.915)	172985	250.000	237.5
41 Tetrahydrofuran	42	7.739	7.739	(0.915)	31972	1000.00	844.4
43 1,1,1-Trichloroethane	97	7.936	7.936	(0.938)	147423	250.000	250.7
45 Pentafluorobenzene	168	7.867	7.867	(0.930)	208392	250.000	259.9
44 Cyclohexane	84	7.995	7.995	(0.945)	99845	250.000	253.2
46 1-chlorobutane	56	7.995	7.995	(0.945)	217452	250.000	253.5
50 Isobutyl alcohol	43	8.073	8.073	(0.955)	60609	12500.0	13150
47 1,1-dichloropropene	75	8.062	8.062	(0.953)	119032	250.000	260.2
48 Carbon Tetrachloride	117	8.082	8.082	(0.956)	139188	250.000	257.8
51 Benzene	78	8.250	8.250	(0.976)	390742	250.000	238.0
49 1,2-Dichloroethane	62	8.251	8.250	(0.976)	78040	250.000	248.0
52 Crotonaldehyde	41	8.437	8.437	(0.998)	140009	2500.00	2072
53 Trichloroethene	130	8.752	8.752	(1.035)	143011	250.000	259.0
54 Methylcyclohexane	83	8.820	8.820	(1.055)	157119	250.000	285.0
55 1,2-Dichloropropane	63	8.829	8.829	(1.056)	119127	250.000	261.7
56 Dibromomethane	174	8.836	8.836	(1.069)	52270	250.000	257.9
58 Methylmethacrylate	69	8.829	8.829	(1.057)	368554	2500.00	2832
57 1,4-dioxane	88	9.218	9.218	(1.066)	21704	12500.0	15930
59 Bromodichloromethane	83	9.126	9.126	(1.079)	143254	250.000	244.3
60 2-chloroethyl vinyl ether	63	9.293	9.293	(1.099)	383562	2500.00	2892
61 cis-1,3-Dichloropropene	75	9.451	9.451	(1.118)	155369	250.000	284.0

Data File: /chem/5972hp71.i/DF020312A71.b/CW020312A71.d
Report Date: 14-Mar-2002 12:03

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
62 4-Methyl-2-pentanone	43	9.510	9.510	(0.893)	214241	1250.00	1378
63 Toluene	92	9.707	9.707	(0.911)	305567	250.000	248.2
64 trans-1,3-Dichloropropene	75	9.825	9.825	(0.922)	106391	250.000	249.9(H)
66 Ethylmethacrylate	69	9.825	9.825	(0.922)	725129	2500.00	2688
65 1,1,2-Trichloroethane	97	9.972	9.972	(0.936)	66117	250.000	250.0
67 1,3-Dichloropropane	76	10.091	10.091	(0.947)	109119	250.000	255.9
68 Tetrachloroethene	164	10.100	10.100	(0.948)	109477	250.000	244.4
69 2-hexanone	43	10.081	10.081	(0.946)	140583	1250.00	1424
70 Dibromochloromethane	129	10.268	10.268	(0.964)	95549	250.000	248.3
71 1,2-Dibromoethane	107	10.366	10.366	(0.973)	71338	250.000	254.0
73 1-Chlorohexane	55	10.583	10.583	(0.994)	133304	250.000	263.1
72 Chlorobenzene	112	10.671	10.671	(1.002)	328040	250.000	246.4
74 1,1,1,2-Tetrachloroethane	131	10.710	10.710	(1.006)	106646	250.000	251.1
75 Ethylbenzene	106	10.710	10.710	(1.006)	175768	250.000	213.8
76 m,p-Xylene	106	10.769	10.769	(1.011)	443316	500.000	360.1
77 o-Xylene	106	11.035	11.035	(1.036)	202238	250.000	218.4
78 Styrene	104	11.035	11.035	(1.036)	307872	250.000	262.8
79 Bromoform	173	11.202	11.202	(1.052)	48130	250.000	257.4
81 Isopropyl Benzene	105	11.252	11.252	(1.056)	529532	250.000	256.4
80 cis-1,4-dichloro-2-butene	75	11.281	11.281	(1.059)	783738	10000.0	9303
82 1,1,2,2-Tetrachloroethane	83	11.419	11.419	(0.942)	77735	250.000	252.1
84 Bromobenzene	156	11.498	11.498	(1.079)	118451	250.000	250.9
83 1,2,3-Trichloropropane	110	11.468	11.468	(1.077)	15679	250.000	248.6
85 trans-1,4-dichloro-2-butene	53	11.448	11.448	(1.075)	523961	10000.0	9429
86 n-Propyl Benzene	91	11.498	11.498	(0.949)	668788	250.000	253.0
87 2-Chlorotoluene	126	11.596	11.596	(0.957)	132303	250.000	248.5
89 1,3,5-Trimethyl Benzene	105	11.586	11.586	(0.956)	405189	250.000	256.2
88 4-Chlorotoluene	126	11.655	11.655	(0.962)	130669	250.000	258.3
91 tert-Butylbenzene	119	11.822	11.822	(0.976)	397869	250.000	261.0
90 Pentachloroethane	167	11.872	11.872	(0.980)	72337	250.000	253.5
92 1,2,4-Trimethyl Benzene	105	11.842	11.842	(0.977)	401810	250.000	250.9
93 sec-Butyl Benzene	105	11.950	11.950	(0.986)	582528	250.000	265.2
94 1,3-Dichlorobenzene	146	12.088	12.088	(0.998)	228604	250.000	250.6
95 p-Isopropyl Toluene	119	12.029	12.029	(0.993)	461514	250.000	270.8
96 1,4-Dichlorobenzene	146	12.137	12.137	(1.002)	228400	250.000	243.4
97 Benzyl Chloride	91	12.206	12.206	(1.007)	115474	250.000	268.8
99 n-Butyl Benzene	91	12.295	12.295	(1.015)	467742	250.000	265.9
98 1,2-Dichlorobenzene	146	12.403	12.403	(1.024)	182732	250.000	241.7
100 1,2-diethylbenzene	119	12.373	12.373	(1.021)	208356	250.000	244.9
101 1,2-Dibromo-3-Chloropropane	75	12.944	12.944	(1.068)	7578	250.000	242.9
112 1,2,4-Trichlorobenzene	180	13.477	13.477	(1.127)	112241	250.000	261.6
113 Hexachlorobutadiene	225	13.722	13.722	(1.132)	72375	250.000	262.5
124 Naphthalene	128	13.941	13.941	(1.142)	147155	250.000	257.4
125 1,2,3-Trichlorobenzene	180	14.156	14.156	(1.162)	86832	250.000	257.4
M 106 1,2-Dichloroethene (total)	96				197097	500.000	504.5
M 107 Xylene (total)	106				645554	250.000	697.1

satd 3/14/02

Data File: /chem/5972hp71.i/DF020312A71.b/CW020312A71.d
Report Date: 14-Mar-2002 12:03

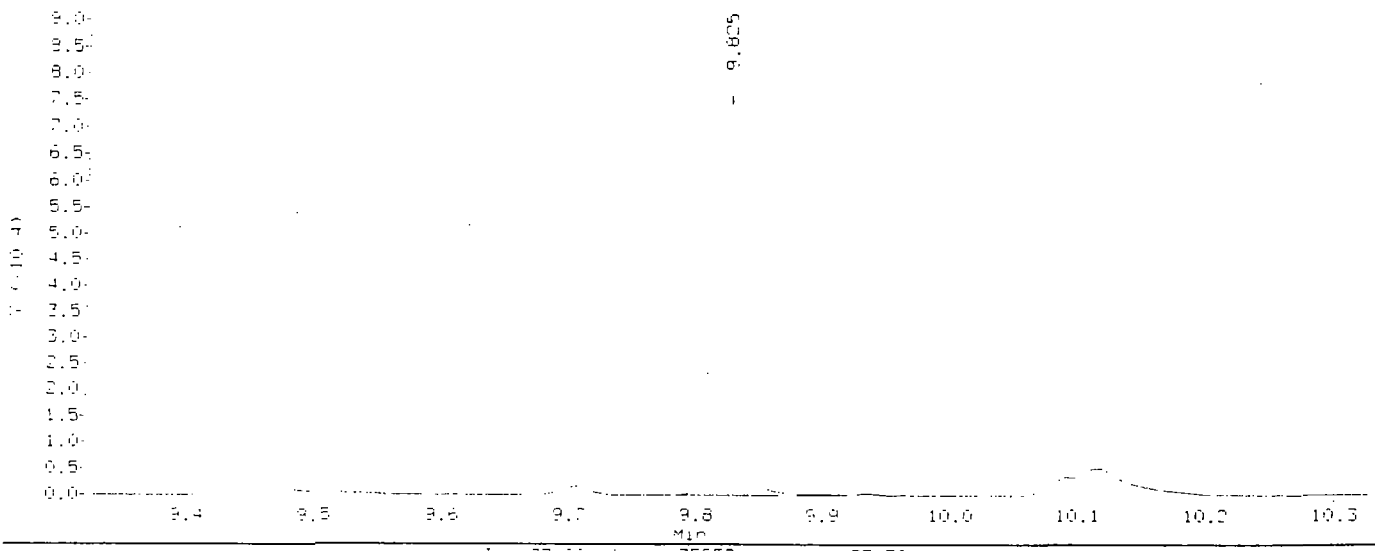
QC Flag Legend

H - Operator selected an alternate compound hit.

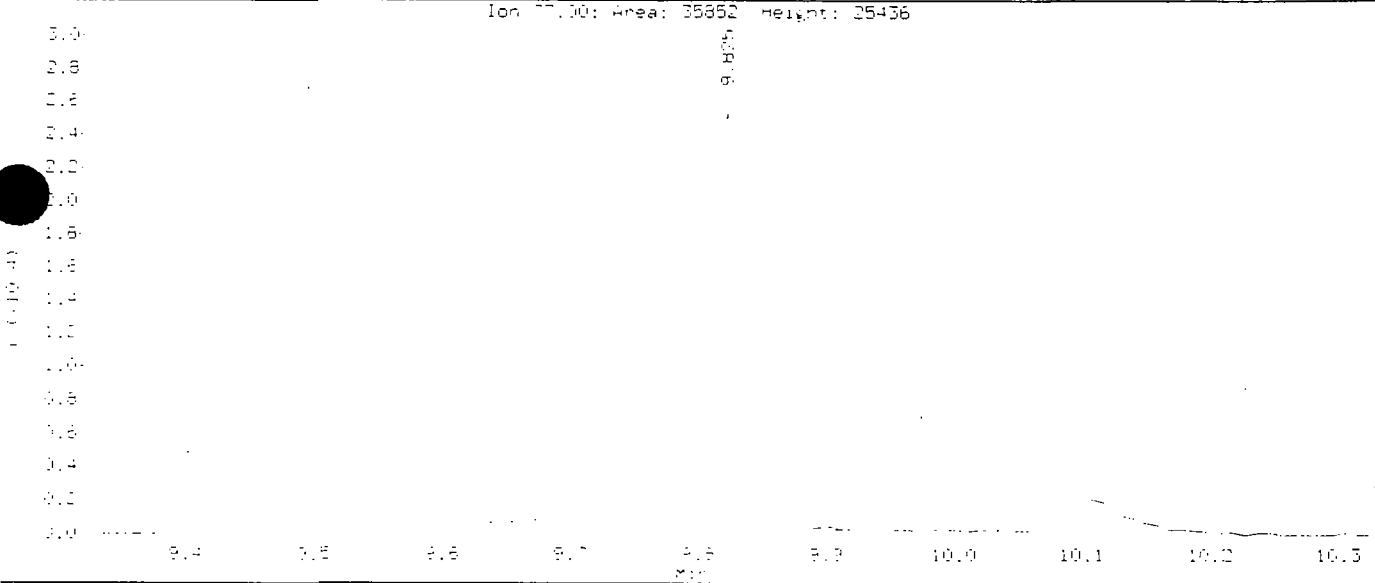
Data File: /chem 5972hp71.. [illegible]
Injection Date: 12-MAR-2002 10:10
Instrument: 5972hp71..
Client Sample ID: VSTD010

Compound: trans-1,3-Dichloropropene
Number: 10061-02-6

Ion 75.00: Area: 106391 Height: 76336



Ion 77.00: Area: 35852 Height: 25436

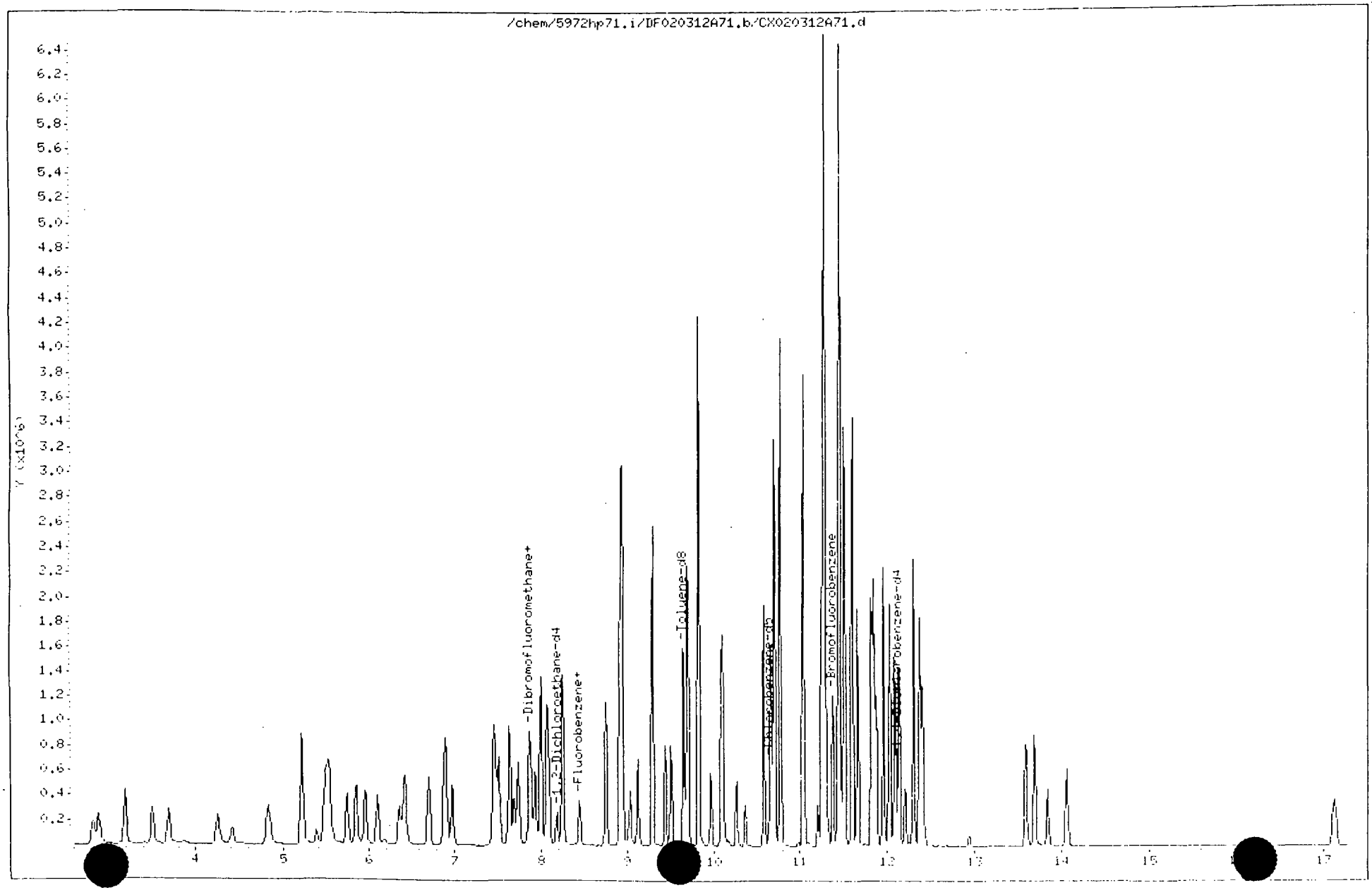


Ion 110.00: Area: 29303 Height: 21144

Data File: /chem/5972hp71.i/DF020312A71.b/CX020312A71.d
Date : 12-MAR-2002 10:36
Client ID: VSTD025
Sample Info:
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp71.i

Operator: 2423
Column diameter: 0.32



Data File: /chem/5972hp71.i/DF020312A71.b/CX020312A71.d
Report Date: 14-Mar-2002 12:03

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp71.i/DF020312A71.b/CX020312A71.d
Lab Smp Id: VSTD025 Client Smp ID: VSTD025
Inj Date : 12-MAR-2002 10:36
Operator : 2423 Inst ID: 5972hp71.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp71.i/DF020312A71.b/W8260-B-25MLv6.m
Meth Date : 14-Mar-2002 12:03 hubbard Quant Type: ISTD
Cal Date : 12-MAR-2002 10:36 Cal File: CX020312A71.d
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

d Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 1 Fluorobenzene	96	8.459	8.459	(1.000)	205782	125.000	
* 2 Chlorobenzene-d5	117	10.653	10.653	(1.000)	177543	125.000	
* 3 1,4-Dichlorobenzene-d4	152	12.119	12.119	(1.000)	81108	125.000	
4 Dibromofluoromethane	113	7.878	7.878	(0.931)	324277	625.000	628.5(A)
5 1,2-Dichloroethane-d4	65	8.183	8.183	(0.967)	150839	625.000	602.9
6 Toluene-d8	98	9.659	9.659	(1.000)	1017066	625.000	666.5 (A)
7 Bromofluorobenzene	95	11.371	11.371	(1.000)	363282	625.000	628.7(A)
8 Dichlorodifluoromethane	85	1.185	1.185	(0.976)	559105	625.000	651.4 (A)
9 Chloromethane	50	1.499	1.499	(0.414)	459302	625.000	670.1(A)
10 Vinyl Chloride	62	1.686	1.686	(0.436)	403292	625.000	630.7(A)
11 Bromomethane	94	4.147	4.147	(0.502)	282008	625.000	594.6
12 Chloroethane	64	4.415	4.415	(0.522)	172485	625.000	603.0
13 Trichlorofluoromethane	101	4.818	4.818	(0.570)	460518	625.000	637.0(A)
14 Diethylether	74	5.202	5.202	(0.615)	482785	6250.00	6176
15 Acrolein	56	5.379	5.379	(0.636)	122961	6250.00	6232

sat 3/14/02

574

Data File: /chem/5972hp71.i/DF020312A71.b/CX020312A71.d
Report Date: 14-Mar-2002 12:03

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
16 1,1-Dichloroethene	96	5.536	5.536	(0.654)	198382	625.000	648.2(A)
17 1,1,1-trichloro-2,2,2-trifluo	117	5.477	5.477	(0.648)	169496	625.000	662.7(A)
20 1,1,2-trichloro-1,2,2-trifluo	85	5.507	5.507	(0.651)	151112	625.000	643.1(A)
18 Acetone	43	5.566	5.566	(0.658)	84596	3125.00	2269
19 Iodomethane	142	5.743	5.743	(0.679)	562888	625.000	661.3(A)
21 Carbon disulfide	76	5.851	5.851	(0.692)	856230	625.000	632.4(A)
22 3-Chloropropene	39	5.950	5.950	(0.703)	209770	625.000	618.0
23 Acetonitrile	41	5.950	5.950	(0.703)	137607	625.000	613.9
163 Methyl acetate	43	5.950	5.950	(0.703)	56226	625.000	514.7
24 Methylene Chloride	84	6.097	6.097	(0.721)	212455	625.000	606.7
25 Acrylonitrile	53	6.253	6.253	(0.751)	285271	6250.00	6265(A)
26 tert-butyl alcohol	59	6.176	6.176	(0.730)	66894	6250.00	6403(A)
27 trans-1,2-Dichloroethene	96	6.422	6.422	(0.759)	257413	625.000	635.7(A)
28 Methyl-tert-butyl ether	73	6.402	6.402	(0.757)	299285	625.000	655.2(A)
29 n-hexane	57	6.707	6.707	(0.793)	317675	625.000	671.1(A)
30 1,1-Dichloroethane	63	6.875	6.875	(0.813)	400455	625.000	631.2(A)
32 Vinyl acetate	43	6.884	6.884	(0.814)	672568	1250.00	1265(A)
33 Isopropyl ether	45	6.904	6.904	(0.816)	654914	625.000	624.4
35 2,2-Dichloropropane	77	7.455	7.455	(0.881)	319479	625.000	604.6
34 cis-1,2-Dichloroethene	96	7.455	7.455	(0.881)	259903	625.000	622.7
31 Chloroprene	53	6.973	6.973	(0.824)	309273	625.000	650.9(A)
37 2-butanone	43	7.435	7.435	(0.879)	154124	3125.00	2027
36 Propionitrile	54	7.485	7.485	(0.885)	469938	31250.0	30180
38 Methyl acrylate	55	7.514	7.514	(0.888)	755086	6250.00	6256(A)
[illegible] Methacrylonitrile	41	7.632	7.632	(0.902)	516617	6250.00	6417(A)
[illegible] Bromochloromethane	128	7.691	7.691	(0.909)	111582	625.000	648.7(A)
42 Chloroform	83	7.731	7.731	(0.914)	447001	625.000	591.9
41 Tetrahydrofuran	42	7.731	7.731	(0.914)	79586	2500.00	2084
43 1,1,1-Trichloroethane	97	7.927	7.927	(0.937)	390723	625.000	630.8(A)
45 Pentafluorobenzene	168	7.859	7.859	(0.929)	568087	625.000	663.8(A)
44 Cyclohexane	84	7.996	7.996	(0.945)	261420	625.000	629.8(A)
46 1-chlorobutane	56	7.996	7.996	(0.945)	807626	625.000	616.0
50 Isobutyl alcohol	43	8.075	8.075	(0.955)	146816	31250.0	30500
47 1,1-dichloropropene	75	8.065	8.065	(0.953)	336940	625.000	642.3(A)
48 Carbon Tetrachloride	117	8.085	8.085	(0.956)	371469	625.000	648.6(A)
51 Benzene	78	8.252	8.252	(0.975)	1012709	625.000	594.3
49 1,2-Dichloroethane	62	8.242	8.242	(0.974)	192806	625.000	591.1
52 Crotonaldehyde	41	8.439	8.439	(0.998)	9460	6250.00	4740
53 Trichloroethene	130	8.754	8.754	(1.035)	34691	625.000	622.3
54 Methylcyclohexane	83	8.921	8.921	(1.055)	518699	625.000	694.1(A)
55 1,2-Dichloropropane	63	8.931	8.931	(1.056)	290612	625.000	611.1
56 Dibromomethane	174	9.039	9.039	(1.069)	127824	625.000	642.6(A)
58 Methylmethacrylate	69	8.941	8.941	(1.057)	907537	6250.00	6556(A)
57 1,4-Dioxane	88	9.002	9.002	(1.064)	69650	31250.0	39360(A)
59 Bromodichloromethane	83	9.128	9.128	(1.079)	373365	625.000	610.2
62 2-chloroethyl vinyl ether	63	9.295	9.295	(1.099)	953745	6250.00	6717(A)
61 cis-1,3-Dichloropropene	75	9.443	9.443	(1.116)	409439	625.000	693.0(A)

Data File: /chem/5972hp71.i/DF020312A71.b/CX020312A71.d
Report Date: 14-Mar-2002 12:03

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
62 4-Methyl-2-pentanone	43	9.512	9.512	(0.893)	526915	3125.00	3347(A)
63 Toluene	92	9.709	9.709	(0.911)	787940	625.000	630.1(A)
64 trans-1,3-Dichloropropene	75	9.827	9.827	(0.922)	259208	625.000	605.3(H)
66 Ethylmethacrylate	69	9.827	9.827	(0.922)	1724325	6250.00	6294(A)
65 1,1,2-Trichloroethane	97	9.964	9.964	(0.935)	168609	625.000	628.1(A)
67 1,3-Dichloropropane	76	10.082	10.082	(0.946)	272127	625.000	628.5(A)
68 Tetrachloroethene	164	10.102	10.102	(0.948)	296465	625.000	647.1(A)
69 2-hexanone	43	10.082	10.082	(0.946)	353028	3125.00	3438(A)
70 Dibromochloromethane	129	10.269	10.269	(0.964)	256848	625.000	651.3(A)
71 1,2-Dibromoethane	107	10.368	10.368	(0.973)	191602	625.000	662.8(A)
73 1-Chlorohexane	55	10.584	10.584	(0.994)	357359	625.000	680.2(A)
72 Chlorobenzene	112	10.673	10.673	(1.002)	851675	625.000	629.7(A)
74 1,1,1,2-Tetrachloroethane	131	10.702	10.702	(1.005)	271873	625.000	630.2(A)
75 Ethylbenzene	106	10.702	10.702	(1.005)	445159	625.000	550.1
76 m,p-Xylene	106	10.771	10.771	(1.011)	1102328	1250.00	938.2
77 o-Xylene	106	11.037	11.037	(1.036)	513832	625.000	561.3
78 Styrene	104	11.037	11.037	(1.036)	783323	625.000	652.3(A)
79 Bromoform	173	11.204	11.204	(1.052)	130218	625.000	673.6(A)
81 Isopropyl Benzene	105	11.253	11.253	(1.056)	1362426	625.000	645.5(A)
80 cis-1,4-dichloro-2-butene	75	11.273	11.273	(1.058)	1604990	25000.0	19770(A)
82 1,1,2,2-Tetrachloroethane	83	11.421	11.421	(0.942)	193898	625.000	617.7
84 Bromobenzene	156	11.499	11.499	(1.079)	307490	625.000	638.9(A)
83 1,2,3-Trichloropropane	110	11.470	11.470	(1.077)	40394	625.000	630.4(A)
85 trans-1,4-dichloro-2-butene	53	11.450	11.450	(1.075)	1111611	25000.0	20600
86 n-Propyl Benzene	91	11.499	11.499	(0.949)	1700608	625.000	629.1(A)
87 2-Chlorotoluene	126	11.598	11.598	(0.957)	337940	625.000	622.3
89 1,3,5-Trimetnyl Benzene	105	11.588	11.588	(0.956)	1021479	625.000	630.9(A)
88 4-Chlorotoluene	126	11.657	11.657	(0.962)	347970	625.000	663.3(A)
91 tert-Butyl Benzene	119	11.814	11.814	(0.975)	1041841	625.000	659.9(A)
90 Pentachloroethane	167	11.873	11.873	(0.980)	193352	625.000	655.4(A)
92 1,2,4-Trimethyl Benzene	105	11.844	11.844	(0.977)	1024598	625.000	626.2(A)
93 sec-Butyl Benzene	105	11.952	11.952	(0.986)	1509750	625.000	663.1(A)
94 1,3-Dichlorobenzene	146	12.080	12.080	(0.997)	594219	625.000	635.3(A)
95 p-Isopropyl Toluene	119	12.031	12.031	(0.993)	1197829	625.000	674.7(A)
96 1,4-Dichlorobenzene	146	12.129	12.129	(1.002)	588018	625.000	626.1(A)
97 Benzyl Chloride	91	12.198	12.198	(1.006)	298861	625.000	669.2(A)
99 n-Butyl Benzene	91	12.296	12.296	(1.015)	1210637	625.000	663.6(A)
98 1,2-Dichlorobenzene	146	12.406	12.406	(1.024)	472896	625.000	614.9
100 1,2-diethylbenzene	119	12.376	12.376	(1.021)	646487	625.000	628.3(A)
101 1,2-Dibromo-3-Chloropropane	75	12.934	12.934	(1.067)	19519	625.000	615.1
102 1,2,4-Trichlorobenzene	180	13.605	13.605	(1.123)	298384	625.000	669.[illegible](A)
103 Hexachlorobutadiene	225	13.694	13.694	(1.130)	197497	625.000	668.7(A)
104 Naphthalene	128	13.841	13.841	(1.142)	384143	625.000	664.5(A)
105 1,2,3-Trichlorobenzene	180	14.056	14.056	(1.160)	234527	625.000	668.8(A)
M 106 1,2-Dichloroethene (total	96				517716	1250.00	1258(A)
M 107 Xylene (total	106				1616160	625.000	1765

SAA 3/14/02

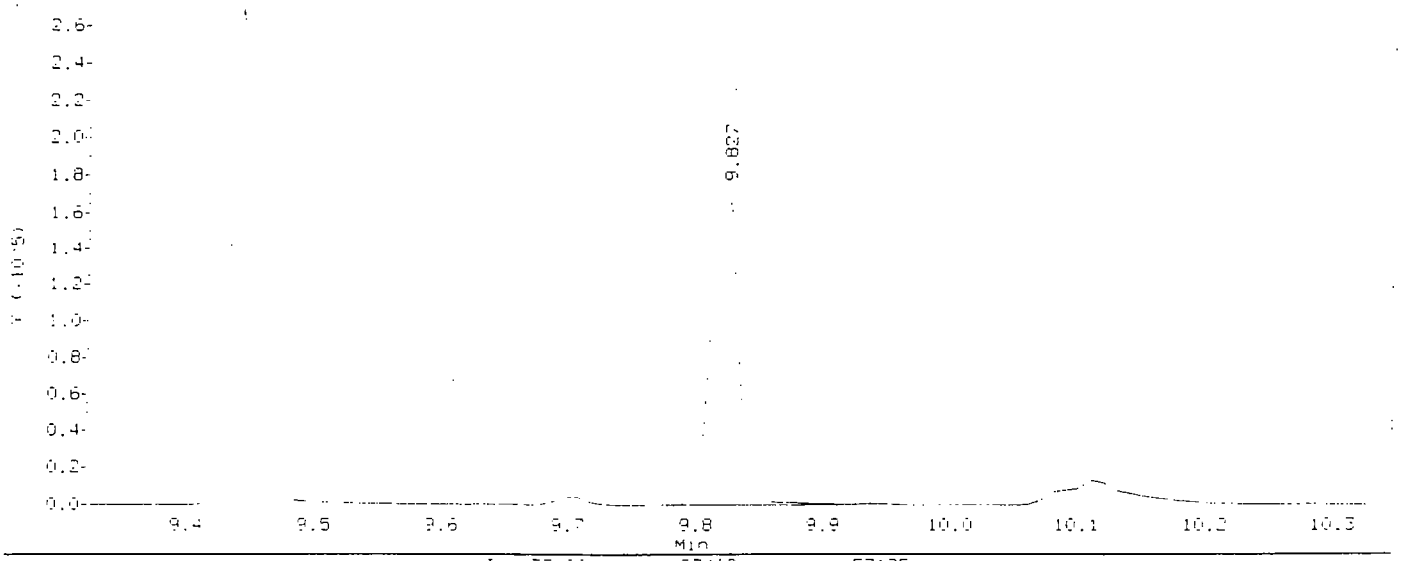
Data File: /chem/5972hp71.i/DF020312A71.b/CX020312A71.d
Report Date: 14-Mar-2002 12:03

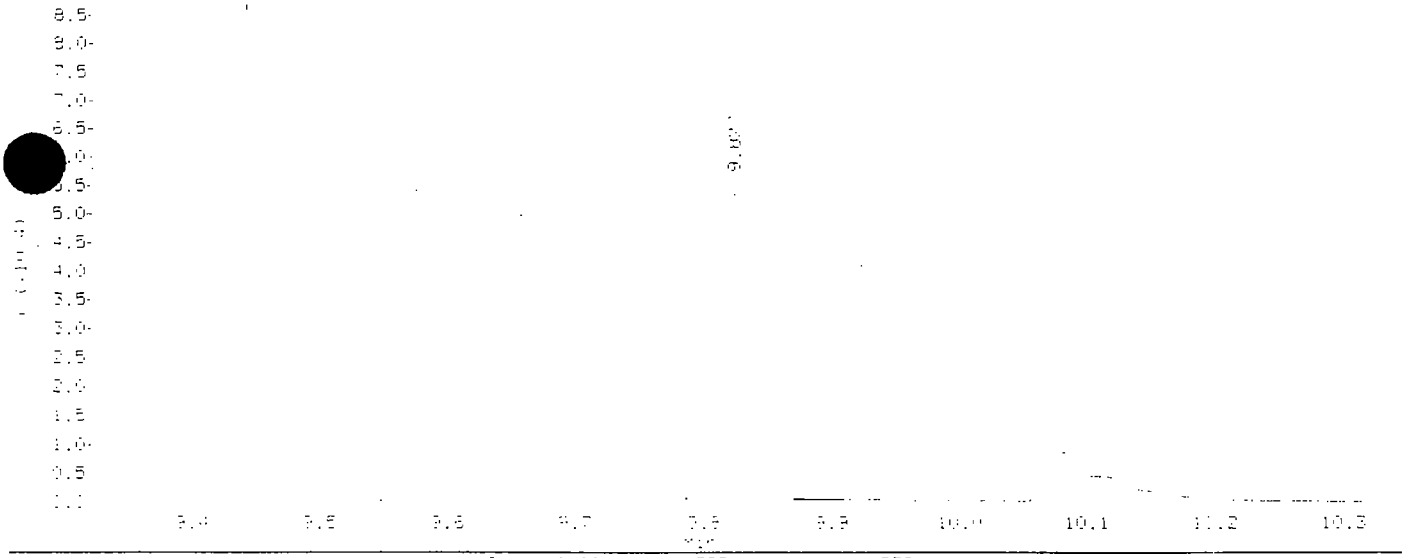
Flag Legend

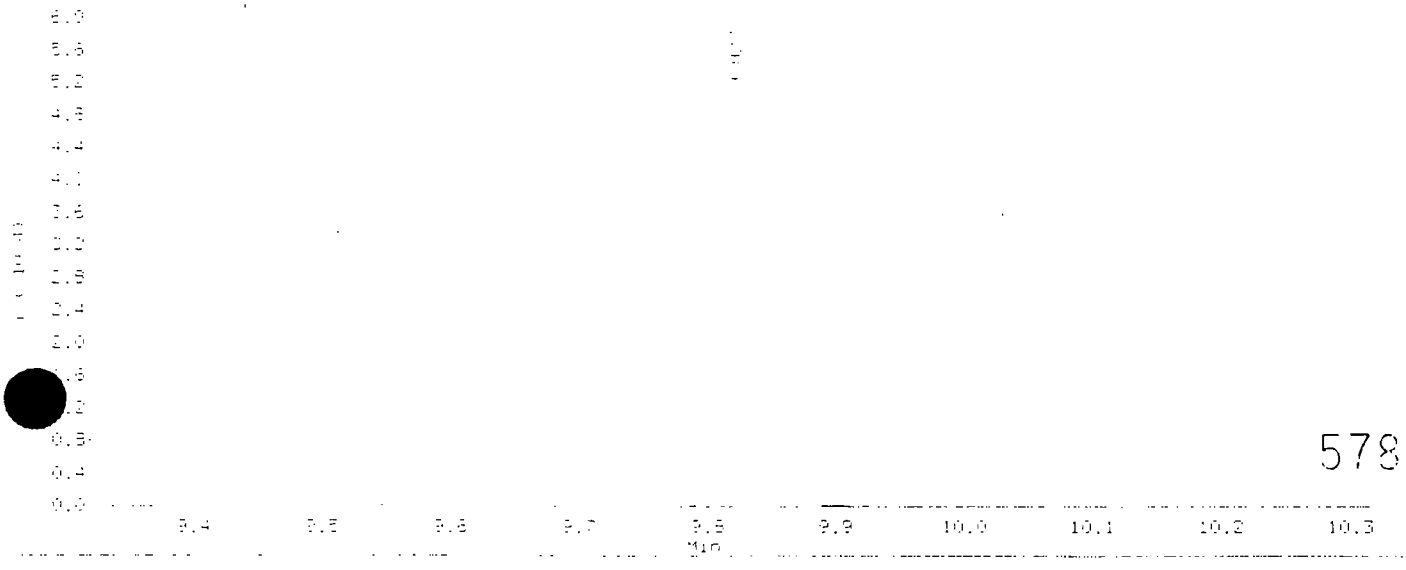
A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.

Data File: /chem/5972hp71.i/SF020312471.b/SX020312471.d
Injection Date: 12-MAR-2002 10:36
Instrument: 5972hp71.i
Client Sample ID: VSTD025

Compound: trans-1,3-Dichloropropene
Number: 10061-02-6







COMPUCHEM a division of Liberty Analytical Corp DATE 3/12/02 INITIAL TIME OF TUNE 737 SHIFT/S(A) (B) (C)

GC/MS VOLATILE RUN LOG TIME TUNE EXPIRES 1937 LINKER/METHOD [illegible]

COMPUCHEM LOGBOOK 11 WWW 5 (5972hp71)

PREVENTIVE MAINTENANCE None

	FILE NAME	REPORTED	DATE	TIME	CLIENT ID#	CASE/SDG#	AMOUNT INJECTED	CHEMIST	COMMENTS(FTC)/DISPOSITION
1	BF020312A71		23/12/02	737	BFB	—	2 ml	2423	SCD=LCD
2	CS020312A71	VS	/ /	804	VSTD005	—	25 ml		
3	CT020312A71		/ /	849	VSTD005	—			
4	CU020312A71		/ /	916	VSTD001	—			
5	CV020312A71		/ /	943	VSTD05	—			Ideal passes
6	CW020312A71		/ /	1010	VSTD010	—			
7	CX020312A71		/ /	1036	VSTD025	—			
8	CB020312A71	CS	/ /	1105	VIBLKAS	—			
9	WG16250-1A71		/ /	1131	VBLKBA	Various			
10	WG16250-4A71		/ /	1204	VBALCS	↓			ME109
11	SC2166-10A71		/ /	1231	FB-2	SC2166			
12	SC2166-11A71		/ /	1258	TB-2	↓			
13	F2322-2A71		/ /	1325	TRipblank	F2322	↓		
14	SC2166-1A71	SH	/ /	1409	TC-23	SC2166	5 ml		[illegible]
15	CC020312A71		/ /	1450	VIBLKAK	—	25 ml		
16	SC2166-2A71		/ /	1517	TC-25	SC2166			
17	SC2166-3A71		/ /	1544	TC-29				
18	SC2166-1RA71	ES	/ /	1611	TC-23		5 ml		
19	SC2166-5A71		/ /	1638	TC-31		25 ml		
20	SC2166-4A71		/ /	1705	TC-29D				
21	SC2166-7A71	DI	/ /	1732	TC-33				Toluene @ 207
22	SC2166-8A71	CS	/ /	1758	EP-2				
23	SC2166-9A71		/ /	1825	IC-7				
24	SC2166-6A71	DI	/ /	1852	TC-32	↓	50 ml	↓	Toluene @ 204 [illegible]

STANDARDS

	Tune	Analytical	Int. Std.	Column Type
Std. ID #	7008	ME109		
Lot #	52708		52731	

SUPERVISOR APPROVAL [signature]

DATE 3-13-2

The presence of the Chemist's employee ID number, or signature, on this run log attests that strict compliance with the method SOP has occurred. Any SOP deviations require documentation by the responsible chemist together with the chemist's initials and the initials of the lab supervisor and a [illegible] department representative, signifying approval of the deviation.

11-26-01 dee

b. Continuing Calibration Data (Form VII VOA)

If more than one instrument is used, forms shall be arranged in order by instrument. If multiple continuing calibrations from the same instrument are used, they shall be in chronological order.

(1) Reconstructed Ion Chromatograms and quantitation reports for all continuing (12-hour) calibrations. Spectra not required.

(2) EICPs displaying each manual integration.

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Instrument ID: 5972HP73 Calibration Date: 03/07/02 Time: 0821

Lab File ID: CS020307A73 Init. Calib. Date(s): 02/22/02 02/22/02

Init. Calib. Times: 2021 2250

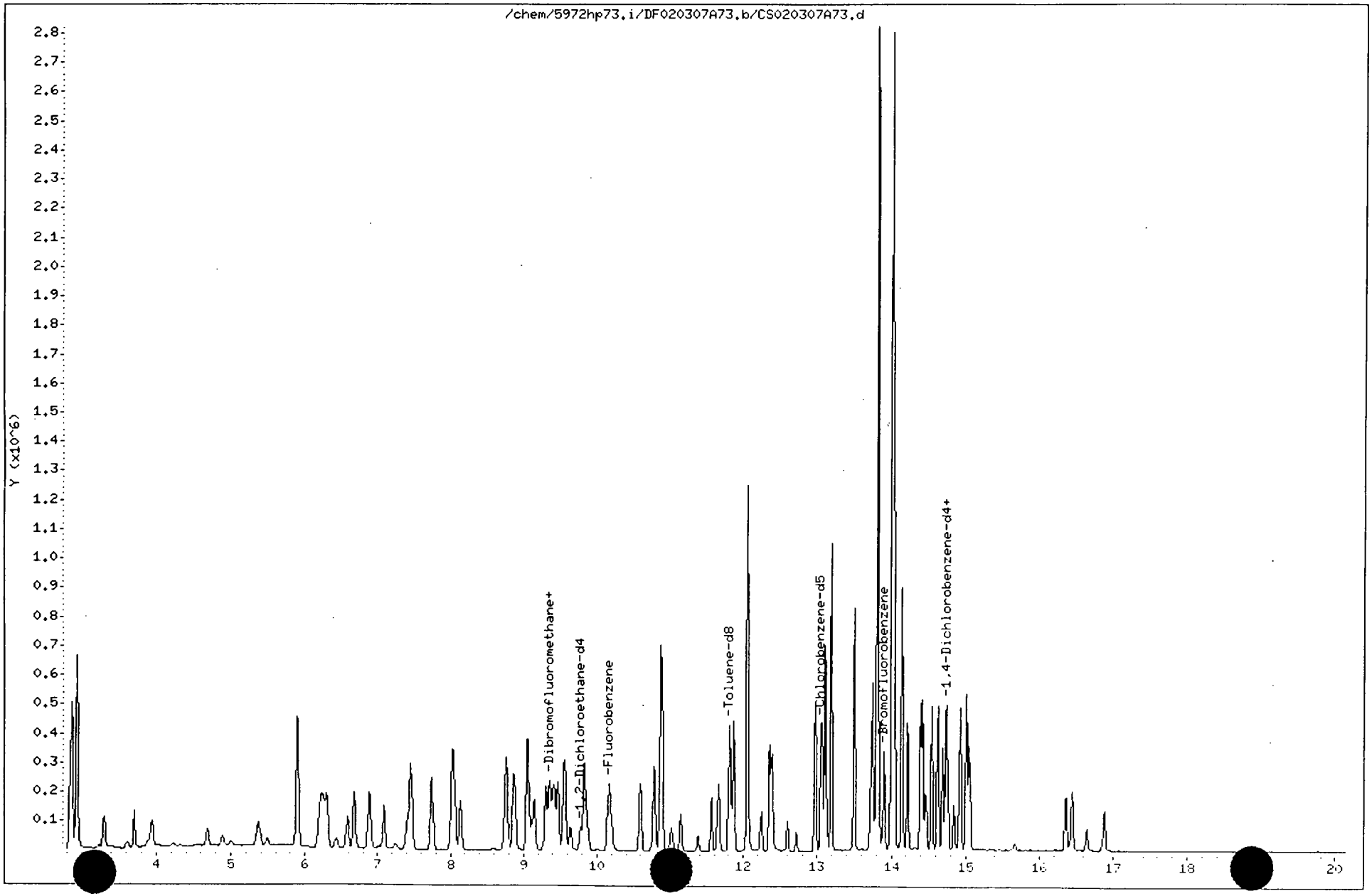
GC Column: ZB-624 ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF5 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Chloromethane	0.4490000	0.4813656	0.1	7.21	90.00	AVRG
Vinyl Chloride	0.3610000	0.3333713	0.001	-7.65	20.00	AVRG
Bromomethane	0.1690000	0.2047512	0.001	21.15	90.00	AVRG
Chloroethane	0.1690000	0.1476187	0.001	-12.65	90.00	AVRG
1,1-Dichloroethene	0.3360000	0.3059735	0.001	-8.94	20.00	AVRG
Carbon disulfide	1.4020000	1.3002982	0.001	-7.25	90.00	AVRG
Acetone	0.0510000	0.0446711	0.001	-12.41	90.00	AVRG
Methylene Chloride	0.3210000	0.2910113	0.001	-9.34	90.00	AVRG
trans-1,2-Dichloroethene	0.3540000	0.3213378	0.001	-9.23	90.00	AVRG
1,1-Dichloroethane	0.6590000	0.5780051	0.1	-12.29	90.00	AVRG
cis-1,2-Dichloroethene	0.3410000	0.3075441	0.001	-9.81	90.00	AVRG
2-butanone	0.0640000	0.0641515	0.001	0.24	90.00	AVRG
Chloroform	0.6450000	0.5599398	0.001	-13.19	20.00	AVRG
1,1,1-Trichloroethane	0.6070000	0.5005046	0.001	-17.54	90.00	AVRG
Carbon Tetrachloride	0.5250000	0.4168393	0.001	-20.60	90.00	AVRG
Benzene	1.3710000	1.2402067	0.001	-9.54	90.00	AVRG
1,2-Dichloroethane	0.3540000	0.2894863	0.001	-18.22	90.00	AVRG
Trichloroethene	0.3870000	0.3327757	0.001	-14.01	90.00	AVRG
1,2-Dichloropropane	0.2860000	0.2655407	0.001	-7.15	20.00	AVRG
Bromodichloromethane	0.4090000	0.3359661	0.001	-17.86	90.00	AVRG
cis-1,3-Dichloropropene	0.4440000	0.3877457	0.001	-12.67	90.00	AVRG
4-Methyl-2-pentanone	0.2110000	0.2035350	0.001	-3.54	90.00	AVRG
Toluene	1.0300000	0.9357180	0.001	-9.15	20.00	AVRG
trans-1,3-Dichloropropene	0.4440000	0.3842324	0.001	-13.46	90.00	AVRG
1,1,2-Trichloroethane	0.2150000	0.2025783	0.001	-5.78	90.00	AVRG
Tetrachloroethene	0.4120000	0.4284700	0.001	4.00	90.00	AVRG
2-hexanone	0.1420000	0.1457122	0.001	2.61	90.00	AVRG
Dibromochloromethane	0.3290000	0.2710391	0.001	-17.62	90.00	AVRG
Chlorobenzene	1.0560000	0.9614808	0.3	-8.95	90.00	AVRG
Ethylbenzene	0.5870000	0.5359599	0.001	-8.70	20.00	AVRG
m,p-Xylene	0.7290000	0.6615898	0.001	-9.25	90.00	AVRG
o-Xylene	0.6820000	0.6110089	0.001	-10.41	90.00	AVRG
Styrene	1.0830000	0.9387521	0.001	-13.32	90.00	AVRG
Bromoform	0.1830000	0.1455392	0.1	-20.47	90.00	AVRG
1,1,2,2-Tetrachloroethane	0.4940000	0.4710161	0.3	-4.65	90.00	AVRG
Xylene (total)	0.6820000	0.6110089	0.001	-10.41	90.00	AVRG
Dibromofluoromethane	0.2900000	0.3316072	0.001	14.35	90.00	AVRG
1,2-Dichloroethane-d4	0.2460000	0.2598920	0.001	5.65	90.00	AVRG
Toluene-d8	1.2540000	1.4010177	0.001	11.72	90.00	AVRG
Bromofluorobenzene	0.9040000	1.0083177	0.001	11.54	90.00	AVRG

Data File: /chem/5972hp73.i/DF020307A73.b/CS020307A73.d
Date : 07-MAR-2002 08:21
Client ID: VSTD005
Sample Info:
Purge Volume: 25.0
Column phase: ZB-624

Instrument: 5972hp73.i

Operator: 2429
Column diameter: 0.32



Data File: /chem/5972hp73.i/DF020307A73.b/CS020307A73.d
Report Date: 08-Mar-2002 13:58

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF020307A73.b/CS020307A73.d
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 07-MAR-2002 08:21
Operator : 2429 Inst ID: 5972hp73.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp73.i/DF020307A73.b/W8260-B-25MLv6.m
Meth Date : 08-Mar-2002 13:55 hubbard Quant Type: ISTD
Cal Date : 22-FEB-2002 22:50 Cal File: CY020222B73.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

nd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 1 Fluorobenzene	96	10.169	10.169	(1.000)	263598	125.000	
* 2 Chlorobenzene-d5	117	13.053	13.053	(1.000)	200056	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.736	14.736	(1.000)	101470	125.000	
4 Dibromofluoromethane	113	9.352	9.352	(0.920)	87411	125.000	143.0
5 1,2-Dichloroethane-d4	65	9.775	9.775	(0.961)	68507	125.000	132.0
6 Toluene-d8	98	11.813	11.813	(0.905)	280282	125.000	139.7
7 Bromofluorobenzene	95	13.899	13.899	(0.943)	102314	125.000	139.5
8 Dichlorodifluoromethane	85	3.299	3.299	(0.324)	117189	125.000	126.8
9 Chloromethane	50	3.703	3.703	(0.364)	126887	125.000	133.9
10 Vinyl Chloride	62	3.949	3.949	(0.388)	87876	125.000	115.4
11 Bromomethane	94	4.687	4.687	(0.461)	53972	125.000	151.7
12 Chloroethane	64	4.893	4.893	(0.481)	38912	125.000	109.3
13 Trichlorofluoromethane	101	5.366	5.366	(0.528)	114374	125.000	114.8
14 Diethylether	74	5.897	5.897	(0.580)	223518	1250.00	1253
15 Acrolein	56	6.183	6.183	(0.608)	19410	1250.00	481.1

ea 3/8/02

Data File: /chem/5972hp73.i/DF020307A73.b/CS020307A73.d
Report Date: 08-Mar-2002 13:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
16 1,1-Dichloroethene	96	6.301	6.301	(0.620)	80654	125.000	113.8
17 1,1,1-trichloro-2,2,2-trifluo	117	6.212	6.212	(0.611)	57476	125.000	125.1
20 1,1,2-trichloro-1,2,2-trifluo	85	6.252	6.252	(0.615)	62047	125.000	122.8
18 Acetone	43	6.439	6.439	(0.633)	58876	625.000	543.5
19 Iodomethane	142	6.586	6.586	(0.648)	162085	125.000	139.0
21 Carbon disulfide	76	6.685	6.685	(0.657)	342756	125.000	115.9
22 3-Chloropropene	39	6.882	6.882	(0.677)	123781	125.000	106.6
23 Acetonitrile	41	6.882	6.882	(0.677)	188696	125.000	115.4
163 Methyl acetate	43	6.911	6.911	(0.680)	30582	125.000	103.3
24 Methylene Chloride	84	7.088	7.088	(0.697)	76710	125.000	113.2
25 Acrylonitrile	53	7.472	7.472	(0.735)	119771	1250.00	1201
26 tert-butyl alcohol	59	7.246	7.246	(0.713)	32177	1250.00	1080
27 trans-1,2-Dichloroethene	96	7.453	7.453	(0.733)	84704	125.000	113.5
28 Methyl-tert-butyl ether	73	7.413	7.413	(0.729)	152354	125.000	120.5
29 n-hexane	57	7.748	7.748	(0.762)	148533	125.000	136.3
30 1,1-Dichloroethane	63	8.043	8.043	(0.791)	152361	125.000	109.6
32 Vinyl acetate	43	8.053	8.053	(0.792)	347361	250.000	276.8
33 Isopropyl ether	45	8.023	8.023	(0.789)	337520	125.000	124.1
35 2,2-Dichloropropane	77	8.752	8.752	(0.861)	132337	125.000	104.3
34 cis-1,2-Dichloroethene	96	8.771	8.771	(0.863)	81068	125.000	112.7
31 Chloroprene	53	8.132	8.132	(0.800)	137375	125.000	96.01
37 2-butanone	43	8.771	8.771	(0.863)	84551	625.000	623.3
36 Propionitrile	54	8.890	8.890	(0.874)	210919	6250.00	6088
38 Methyl acrylate	55	8.860	8.860	(0.871)	337311	1250.00	1196
[illegible] Methacrylonitrile	41	9.047	9.047	(0.890)	259127	1250.00	1157
[illegible]0 Bromochloromethane	128	9.086	9.086	(0.894)	32016	125.000	117.6
42 Chloroform	83	9.145	9.145	(0.899)	147599	125.000	108.5
41 Tetrahydrofuran	42	9.116	9.116	(0.896)	44905	500.000	474.9
43 1,1,1-Trichloroethane	97	9.362	9.362	(0.921)	131932	125.000	103.0
45 Pentafluorobenzene	168	9.303	9.303	(0.915)	199928	125.000	127.5
44 Cyclohexane	84	9.411	9.411	(0.925)	110555	125.000	118.9
46 1-chlorobutane	56	9.470	9.470	(0.931)	246901	125.000	121.8
50 Isobutyl alcohol	43	9.638	9.638	(0.948)	65993	6250.00	5212
47 1,1-dichloropropene	75	9.549	9.549	(0.939)	115614	125.000	108.6
48 Carbon Tetrachloride	117	9.559	9.559	(0.940)	109878	125.000	99.31
51 Benzene	78	9.834	9.834	(0.967)	326916	125.000	113.1
49 1,2-Dichloroethane	62	9.874	9.874	(0.971)	76308	125.000	102.1
52 Crotonaldehyde	41	10.208	10.208	(1.004)	61446	1250.00	1584
53 Trichloroethene	130	10.592	10.592	(1.042)	87719	125.000	107.3
54 Methylcyclohexane	83	10.779	10.779	(1.060)	139106	125.000	120.0
55 1,2-Dichloropropane	63	10.868	10.868	(1.069)	69996	125.000	115.9
56 Dibromomethane	174	11.025	11.025	(1.084)	33999	125.000	117.9
58 Methylmethacrylate	69	10.888	10.888	(1.071)	238039	1250.00	1241
57 1,4-dioxane	88	10.986	10.986	(1.080)	14251	6250.00	5727
59 Bromodichloromethane	83	11.143	11.143	(1.096)	88560	125.000	102.6
60 2-chloroethyl vinyl ether	63	11.380	11.380	(1.119)	23396	1250.00	1172
61 cis-1,3-Dichloropropene	75	11.567	11.567	(1.137)	102209	125.000	109.3

Data File: /chem/5972hp73.i/DF020307A73.b/CS020307A73.d
Report Date: 08-Mar-2002 13:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
62 4-Methyl-2-pentanone	43	11.655	11.655	(0.893)	203592	625.000	602.6
63 Toluene	92	11.872	11.872	(0.910)	187196	125.000	113.6
64 trans-1,3-Dichloropropene	75	12.059	12.059	(0.924)	76868	125.000	108.2
66 Ethylmethacrylate	69	12.059	12.059	(0.924)	561131	1250.00	1212
65 1,1,2-Trichloroethane	97	12.246	12.246	(0.938)	40527	125.000	117.6
67 1,3-Dichloropropane	76	12.393	12.393	(0.949)	69883	125.000	113.6
68 Tetrachloroethene	164	12.364	12.364	(0.947)	85718	125.000	129.9
69 2-hexanone	43	12.393	12.393	(0.949)	145753	625.000	643.0
70 Dibromochloromethane	129	12.610	12.610	(0.966)	54223	125.000	103.1
71 1,2-Dibromoethane	107	12.718	12.718	(0.974)	40597	125.000	110.9
73 1-Chlorohexane	55	12.974	12.974	(0.994)	109578	125.000	121.8
72 Chlorobenzene	112	13.073	13.073	(1.002)	192350	125.000	113.8
74 1,1,1,2-Tetrachloroethane	131	13.122	13.122	(1.005)	65908	125.000	108.3
75 Ethylbenzene	106	13.112	13.112	(1.005)	107222	125.000	114.2
76 m,p-Xylene	106	13.191	13.191	(1.011)	264710	250.000	226.7
77 o-Xylene	106	13.506	13.506	(1.035)	122236	125.000	111.9
78 Styrene	104	13.516	13.516	(1.035)	187803	125.000	108.3
79 Bromoform	173	13.712	13.712	(1.051)	29116	125.000	99.28(M)
81 Isopropyl Benzene	105	13.742	13.742	(1.053)	352055	125.000	110.6
80 cis-1,4-dichloro-2-butene	75	13.811	13.811	(1.058)	645208	5000.00	5354
82 1,1,2,2-Tetrachloroethane	83	13.988	13.988	(0.949)	47794	125.000	119.2
84 Bromobenzene	156	14.037	14.037	(1.075)	78001	125.000	115.2
83 1,2,3-Trichloropropane	110	14.037	14.037	(1.075)	10369	125.000	115.1
85 trans-1,4-dichloro-2-butene	53	14.008	14.008	(1.073)	553074	5000.00	4926
[illegible] n-Propyl Benzene	91	14.037	14.037	(0.953)	552674	125.000	123.7
[illegible]7 2-Chlorotoluene	126	14.145	14.145	(0.960)	80991	125.000	117.4
89 1,3,5-Trimethyl Benzene	105	14.136	14.136	(0.959)	273534	125.000	113.9
88 4-Chlorotoluene	126	14.214	14.214	(0.965)	80314	125.000	119.2
91 tert-Butyl Benzene	119	14.392	14.392	(0.977)	253975	125.000	109.6
90 Pentachloroethane	167	14.470	14.470	(0.982)	37995	125.000	94.75
92 1,2,4-Trimethyl Benzene	105	14.421	14.421	(0.979)	262859	125.000	111.3
93 sec-Butyl Benzene	105	14.539	14.539	(0.987)	366098	125.000	115.1
94 1,3-Dichlorobenzene	146	14.697	14.697	(0.997)	148783	125.000	117.1
95 p-Isopropyl Toluene	119	14.628	14.628	(0.993)	286321	125.000	111.6
96 1,4-Dichlorobenzene	146	14.756	14.756	(1.001)	145679	125.000	117.8
97 Benzyl Chloride	91	14.844	14.844	(1.007)	97657	125.000	128.8
99 n-Butyl Benzene	91	14.923	14.923	(1.013)	298888	125.000	117.1
98 1,2-Dichlorobenzene	146	15.051	15.051	(1.021)	117970	125.000	115.2
100 1,2-diethylbenzene	119	15.012	15.012	(1.019)	143140	125.000	117.6
101 1,2-Dibromo-3-Chloropropane	75	15.671	15.671	(1.063)	5567	125.000	72.58
102 1,2,4-Trichlorobenzene	180	16.370	16.370	(1.111)	75672	125.000	106.6
103 Hexachlorobutadiene	225	16.449	16.449	(1.116)	50068	125.000	104.8
104 Naphthalene	128	16.645	16.645	(1.130)	71005	125.000	78.61
105 1,2,3-Trichlorobenzene	180	16.882	16.882	(1.146)	58495	125.000	103.2
M 106 1,2-Dichloroethene (total)	96				165772	250.000	226.2
M 107 Xylene (total)	106				386946	125.000	354.3

SAT 3/8/02

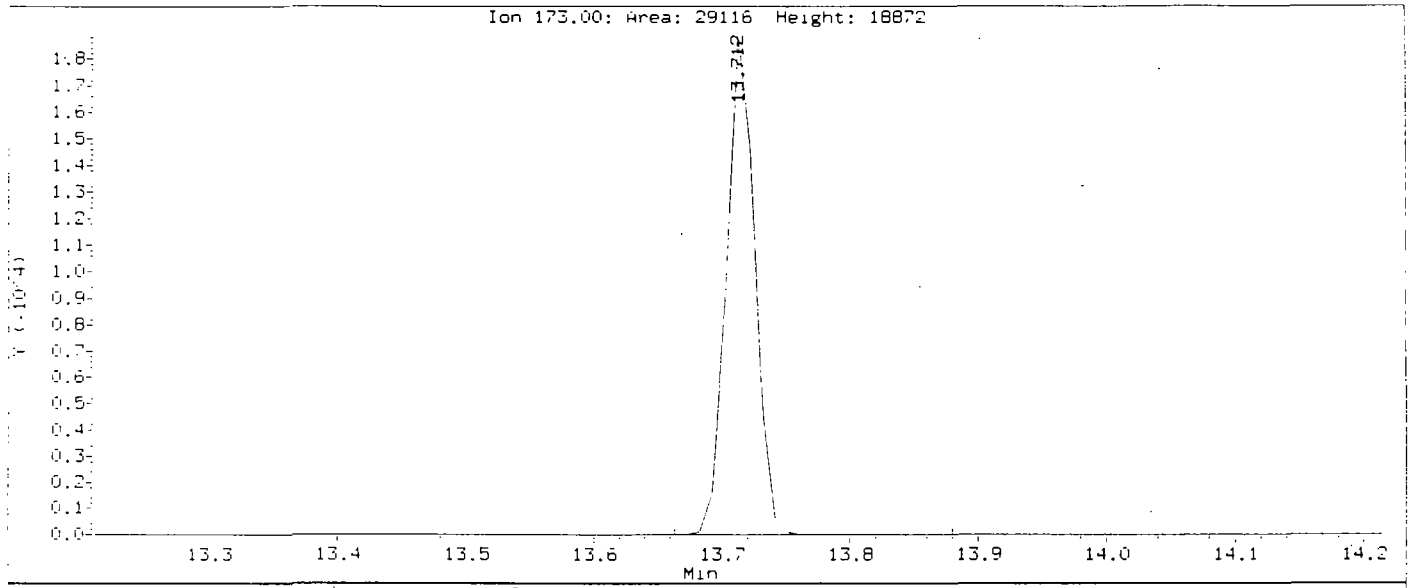
Data File: /chem/5972hp73.i/DF020307A73.b/CS020307A73.d
Report Date: 08-Mar-2002 13:58

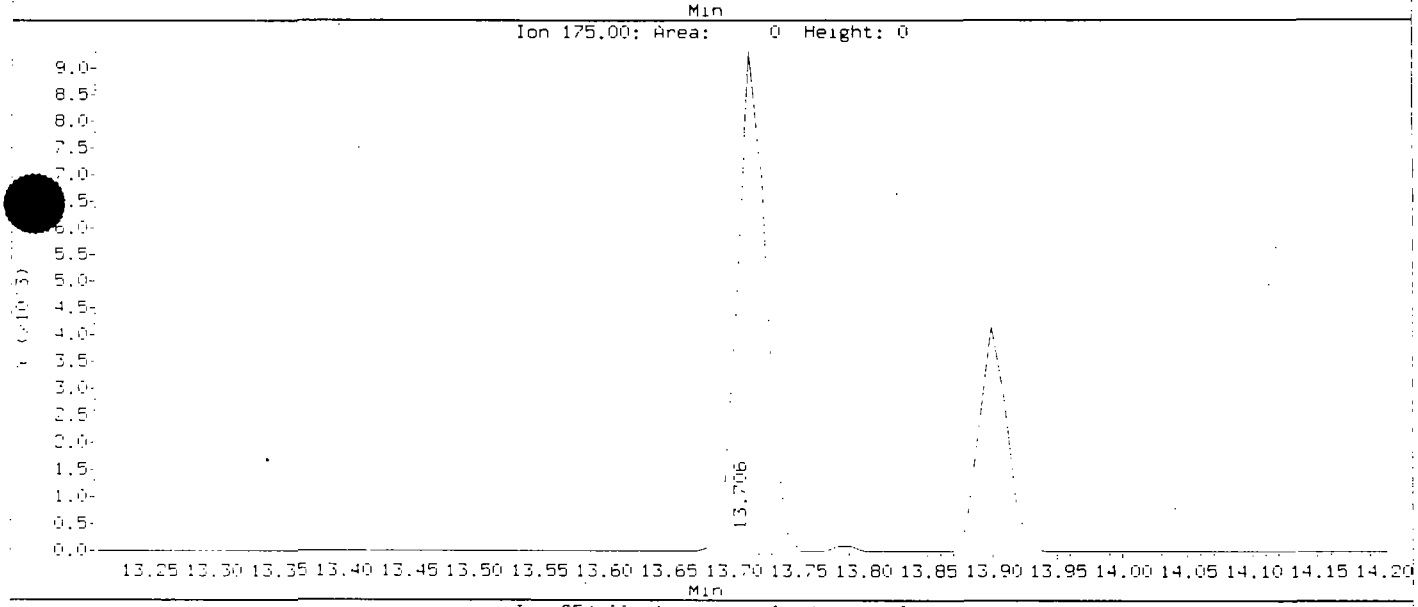
Flag Legend

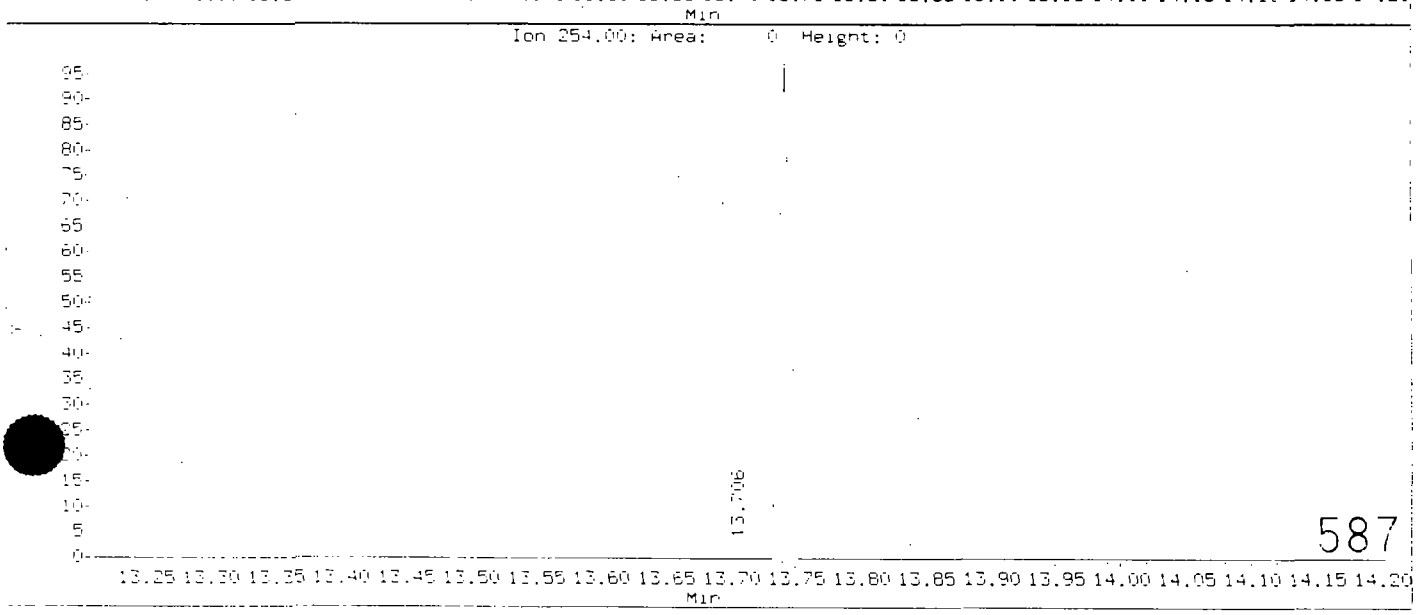
M - Compound response manually integrated.

Data File: /chem/5972hp73.i/DF020307A73.b/CS020307A73.d
Injection Date: 07-MAR-2002 08:21
Instrument: 5972hp73.i
Client Sample ID: VSTD005

ound: Bromoform
Number: 75-25-2







587

COMPUCHEM a division of Liberty Analytical Corp DATE 3 / 7 / 2 INITIAL TIME OF TUNE 0756 SHIFT/S(A) ✓ (B) ___ (C) ___

GC/MS VOLATILE RUN LOG TIME TUNE EXPIRES 1456 LINKER /METHOD W6260-25 (

COMPUCHEM .LOGBOOK 11 ZZZ 4 (5972hp73)

PREVENTIVE MAINTENANCE

	REJECTED	FILE NAME	REPORTED	DATE	TIME	CLIENT ID#	CASE/SDG#	SAMPLE VOLUME	CHEMIST	COMMENTS(ETC.)/DISPOSITION
1		BF020307A73	/	3 / 7 / 2	0756	BFB	—	2 ml	2429	LO-SCD
2		CS070307A73	/	/ /	0821	VSTO005	—	25 ml		
3		WG16157-1A73	/	/ /	0856	VBLKZD	VARIOUS			
4		WG16157-4A73	/	/ /	0929	VZDLCS	↓	↓		100ic/5ml
5		SY2166-5D073	/	/ /	0956	EW-3-0305	SY2166	2 ml		
6		SY2166-6A73	/	/ /	1023	EW-4-0305		25 ml		
7		SY2166-11A73	/	/ /	1049	TC-20-0305				
8		SY2166-12A73	/	/ /	1116	TC-22-0305				
9		SY2166-13A73	/	/ /	1143	TC-24R-0305				
10		SY2166-14A73	/	/ /	1209	TC-34-0305				
11		SY2166-15A73	/	/ /	1236	TC-35-0305				
12		SY2166-16A73	/	/ /	1303	EP-3-0305				
13		SY2166-17A73	/	/ /	1330	IC-6-0305	↓			
14		QE1877-7A73	/	/ /	1356	TRIPBLANK	QE1877			
15		QE1877-1A73	/	/ /	1423	MW-7A				
16		QE1877-2A73	/	/ /	1450	MW-7B				
17	/	QE1877-3A73	DJ	/ /	1516	MW-8A				
18	/	QE1877-4A73	C3	/ /	1543	MW-9A				
19	/	QE1877-5A73	DK	/ /	1610	MW-11B				
20	/	QE1877-6A73	C3	/ /	1636	MW-21B				
21	X	V2088-11RA73	C6	/ /	1703	TB0222 02	V2088			Reporting Premature run Report Part of Sample
22	/	V2088-1RA73	C3	/ /	1757	VMP-4D				
23	/	V2088-2D2A73	C3	/ /	1823	VMP-3D				
24	/	WG16037-6RA73	DK	/ /	1850	VMP-3DMS	↓			Pick matrix Sample Sc 4C

	Tune	STANDARDS Analytical	Int. Std.
Std. ID #	7008	ME 109	
Lot #	52708		52731

SUPERVISOR APPROVAL Ralph W. [illegible]

DATE 3-7-2002

The presence of the Chemist's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist together with the chemist's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation

2-20-02 dcc

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Instrument ID: 5972HP73 Calibration Date: 03/07/02 Time: 2039

Lab File ID: CT020307B73 Init. Calib. Date(s): 02/22/02 02/22/02

Init. Calib. Times: 2021 2250

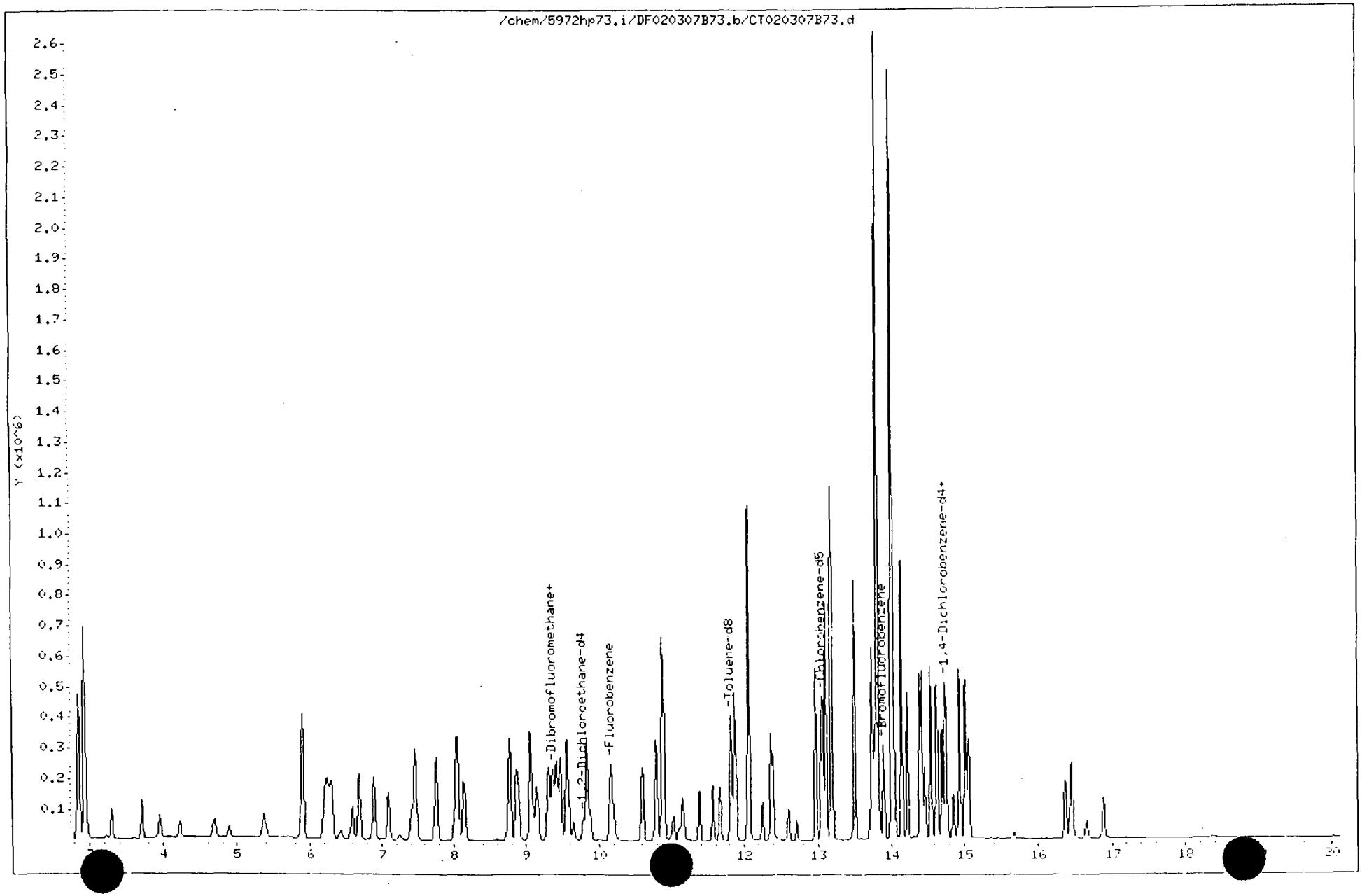
GC Column: ZB-624 ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF5 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Chloromethane	0.4490000	0.4569407	0.1	1.77	90.00	AVRG
Vinyl Chloride	0.3610000	0.3230201	0.001	-10.52	20.00	AVRG
Bromomethane	0.1690000	0.1781524	0.001	5.42	90.00	AVRG
Chloroethane	0.1690000	0.1405966	0.001	-16.81	90.00	AVRG
1,1-Dichloroethene	0.3360000	0.3010908	0.001	-10.39	20.00	AVRG
Carbon disulfide	1.4020000	1.3104886	0.001	-6.53	90.00	AVRG
Acetone	0.0510000	0.0367178	0.001	-28.00	90.00	AVRG
Methylene Chloride	0.3210000	0.2875241	0.001	-10.43	90.00	AVRG
trans-1,2-Dichloroethene	0.3540000	0.3234074	0.001	-8.64	90.00	AVRG
1,1-Dichloroethane	0.6590000	0.5887452	0.1	-10.66	90.00	AVRG
cis-1,2-Dichloroethene	0.3410000	0.3032140	0.001	-11.08	90.00	AVRG
2-butanone	0.0640000	0.0491810	0.001	-23.15	90.00	AVRG
Chloroform	0.6450000	0.5247109	0.001	-18.65	20.00	AVRG
1,1,1-Trichloroethane	0.6070000	0.4745461	0.001	-21.82	90.00	AVRG
Carbon Tetrachloride	0.5250000	0.4022338	0.001	-23.38	90.00	AVRG
Benzene	1.3710000	1.2575245	0.001	-8.28	90.00	AVRG
1,2-Dichloroethane	0.3540000	0.2700596	0.001	-23.71	90.00	AVRG
Trichloroethene	0.3870000	0.3157843	0.001	-18.40	90.00	AVRG
1,2-Dichloropropane	0.2860000	0.2750806	0.001	-3.82	20.00	AVRG
Bromodichloromethane	0.4090000	0.3089569	0.001	-24.46	90.00	AVRG
cis-1,3-Dichloropropene	0.4440000	0.3659068	0.001	-17.59	90.00	AVRG
4-Methyl-2-pentanone	0.2110000	0.1521860	0.001	-27.87	90.00	AVRG
Toluene	1.0300000	0.9408341	0.001	-8.66	20.00	AVRG
trans-1,3-Dichloropropene	0.4440000	0.3599328	0.001	-18.93	90.00	AVRG
1,1,2-Trichloroethane	0.2150000	0.1882318	0.001	-12.45	90.00	AVRG
Tetrachloroethene	0.4120000	0.4032412	0.001	-2.12	90.00	AVRG
2-hexanone	0.1420000	0.1015786	0.001	-28.46	90.00	AVRG
Dibromochloromethane	0.3290000	0.2515518	0.001	-23.54	90.00	AVRG
Chlorobenzene	1.0560000	0.9419705	0.3	-10.80	90.00	AVRG
Ethylbenzene	0.5870000	0.5384762	0.001	-8.27	20.00	AVRG
m,p-Xylene	0.7290000	0.6816567	0.001	-6.49	90.00	AVRG
o-Xylene	0.6820000	0.6207145	0.001	-8.99	90.00	AVRG
Styrene	1.0830000	0.9261274	0.001	-14.48	90.00	AVRG
Bromoform	0.1830000	0.1304744	0.1	-28.70	90.00	AVRG
1,1,2,2-Tetrachloroethane	0.4940000	0.4402577	0.3	-10.88	90.00	AVRG
Xylene (total)	0.6820000	0.6207145	0.001	-8.99	90.00	AVRG
Dibromofluoromethane	0.2900000	0.2830629	0.001	-2.39	90.00	AVRG
1,2-Dichloroethane-d4	0.2460000	0.2182962	0.001	-11.26	90.00	AVRG
Toluene-d8	1.2540000	1.2752688	0.001	1.70	90.00	AVRG
Bromofluorobenzene	0.9040000	0.9142020	0.001	1.13	90.00	AVRG

Data File: /chem/5972hp.3.i/DF020307B73.b/CT020307B73.d
Date : 07-MAR-2002 20:39
Client ID: WSTD005
Sample Info:
Purge Volume: 25.0
Column phase: ZB-624

Instrument: 5972hp73.i

Operator: 2323
Column diameter: 0.32



Data File: /chem/5972hp73.i/DF020307B73.b/CT020307B73.d
Report Date: 08-Mar-2002 12:09

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF020307B73.b/CT020307B73.d
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 07-MAR-2002 20:39
Operator : 2323 Inst ID: 5972hp73.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp73.i/DF020307B73.b/W8260-B-25MLv6.m
Meth Date : 08-Mar-2002 12:06 hubbard Quant Type: ISTD
Cal Date : 22-FEB-2002 22:50 Cal File: CY020222B73.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	RSL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	10.171	10.171	(1.000)	284004	125.000	
* 2 Chlorobenzene-d5	117	13.055	13.055	(1.000)	209428	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.728	14.728	(1.000)	103394	125.000	
4 Dibromofluoromethane	113	9.254	9.254	(0.920)	80391	125.000	122.1
5 1,2-Dichloroethane-d4	65	9.778	9.778	(0.961)	61997	125.000	110.8
6 Toluene-d8	98	11.815	11.815	(0.905)	267077	125.000	127.2
7 Bromofluorobenzene	95	12.902	12.902	(0.943)	94522	125.000	126.5
8 Dichlorodifluoromethane	85	3.301	3.301	(0.325)	103594	125.000	104.0
9 Chloromethane	50	3.705	3.705	(0.364)	129773	125.000	127.1
10 Vinyl Chloride	62	3.951	3.951	(0.388)	91739	125.000	111.8
11 Bromomethane	94	4.689	4.689	(0.461)	50596	125.000	132.0
12 Chloroethane	64	4.896	4.896	(0.481)	39930	125.000	104.1
13 Trichlorofluoromethane	101	5.368	5.368	(0.528)	107593	125.000	100.3
14 Diethylether	74	5.890	5.890	(0.579)	208919	1250.00	1087
15 Acrolein	56	6.185	6.185	(0.608)	22485	1250.00	517.3

sant 3/8/02

Data File: /chem/5972hp73.i/DF020307B73.b/CT020307B73.d
Report Date: 08-Mar-2002 12:09

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
16 1,1-Dichloroethene	96	6.303	6.303	(0.620)	85511	125.000	112.0
17 1,1,1-trichloro-2,2,2-trifluo	117	6.224	6.224	(0.612)	59058	125.000	119.3
20 1,1,2-trichloro-1,2,2-trifluo	85	6.264	6.264	(0.616)	65721	125.000	120.7
18 Acetone	43	6.431	6.431	(0.632)	52140	625.000	446.7
19 Iodomethane	142	6.589	6.589	(0.648)	162457	125.000	129.3
21 Carbon disulfide	76	6.687	6.687	(0.657)	372184	125.000	116.9
22 3-Chloropropene	39	6.884	6.884	(0.677)	133907	125.000	107.0
23 Acetonitrile	41	6.884	6.884	(0.677)	206130	125.000	117.0
163 Methyl acetate	43	6.913	6.913	(0.680)	29009	125.000	90.96
24 Methylene Chloride	84	7.091	7.091	(0.697)	81658	125.000	111.8
25 Acrylonitrile	53	7.474	7.474	(0.735)	109648	1250.00	1021
26 tert-butyl alcohol	59	7.238	7.238	(0.712)	25332	1250.00	788.8
27 trans-1,2-Dichloroethene	96	7.455	7.455	(0.733)	91849	125.000	114.2
28 Methyl-tert-butyl ether	73	7.415	7.415	(0.729)	135397	125.000	99.43
29 n-hexane	57	7.750	7.750	(0.762)	163303	125.000	139.1
30 1,1-Dichloroethane	63	8.045	8.045	(0.791)	167206	125.000	111.6
32 Vinyl acetate	43	8.055	8.055	(0.792)	351647	250.000	260.1
33 Isopropyl ether	45	8.026	8.026	(0.789)	313696	125.000	107.0
35 2,2-Dichloropropane	77	8.754	8.754	(0.861)	139681	125.000	102.2
34 cis-1,2-Dichloroethene	96	8.774	8.774	(0.863)	86114	125.000	111.1
31 Chloroprene	53	8.134	8.134	(0.800)	157099	125.000	101.9
37 2-butanone	43	8.774	8.774	(0.863)	69838	625.000	477.9
36 Propionitrile	54	8.892	8.892	(0.874)	175686	6250.00	4707
38 Methyl acrylate	55	8.862	8.862	(0.871)	300513	1250.00	988.7
39 Methacrylonitrile	41	9.049	9.049	(0.890)	243344	1250.00	1009
40 Bromochloromethane	128	9.089	9.089	(0.894)	32456	125.000	110.6
42 Chloroform	83	9.148	9.148	(0.899)	149020	125.000	101.7
41 Tetrahydrofuran	42	9.118	9.118	(0.896)	38864	500.000	381.5
43 1,1,1-Trichloroethane	97	9.364	9.364	(0.921)	134773	125.000	97.66
45 Pentafluorobenzene	168	9.305	9.305	(0.915)	205714	125.000	121.7
44 Cyclohexane	84	9.413	9.413	(0.925)	121714	125.000	121.4
46 1-chlorobutane	56	9.463	9.463	(0.930)	274997	125.000	125.9
50 Isobutyl alcohol	43	9.640	9.640	(0.948)	49482	6250.00	3627
47 1,1-dichloropropene	75	9.551	9.551	(0.939)	127080	125.000	[illegible]
48 Carbon Tetrachloride	117	9.561	9.561	(0.940)	114236	125.000	95.83
51 Benzene	78	9.837	9.837	(0.967)	357142	125.000	114.6
49 1,2-Dichloroethane	62	9.876	9.876	(0.971)	76698	125.000	95.27
52 Crotonaldehyde	41	10.201	10.201	(1.003)	55061	1250.00	1317
53 Trichloroethene	130	10.594	10.594	(1.042)	89684	125.000	101.8
54 Methylcyclohexane	83	10.781	10.781	(1.060)	151769	125.000	121.5
55 1,2-Dichloropropane	63	10.870	10.870	(1.069)	78124	125.000	120.1
56 Dibromomethane	174	11.028	11.028	(1.084)	32938	125.000	106.0
58 Methylmethacrylate	69	10.880	10.880	(1.070)	212538	1250.00	1029
57 1,4-dioxane	88	10.988	10.988	(1.080)	10970	6250.00	4091
59 Bromodichloromethane	83	11.146	11.146	(1.096)	87745	125.000	94.36
60 2-chloroethyl vinyl ether	63	11.382	11.382	(1.119)	70799	1250.00	3292
61 cis-1,3-Dichloropropene	75	11.569	11.569	(1.137)	103919	125.000	103.1

Data File: /chem/5972hp73.i/DF020307B73.b/CT020307B73.d
Report Date: 08-Mar-2002 12:09

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
62 4-Methyl-2-pentanone	43	11.657	11.657	(0.893)	159360	625.000	450.6
63 Toluene	92	11.874	11.874	(0.910)	197037	125.000	114.2
64 trans-1,3-Dichloropropene	75	12.061	12.061	(0.924)	75380	125.000	101.4
66 Ethylmethacrylate	69	12.051	12.051	(0.923)	506532	1250.00	1045
65 1,1,2-Trichloroethane	97	12.248	12.248	(0.938)	39421	125.000	109.3
67 1,3-Dichloropropane	76	12.396	12.396	(0.949)	71863	125.000	111.6
68 Tetrachloroethene	164	12.366	12.366	(0.947)	84450	125.000	122.3
69 2-hexanone	43	12.396	12.396	(0.949)	106367	625.000	448.3
70 Dibromochloromethane	129	12.612	12.612	(0.966)	52682	125.000	95.72
71 1,2-Dibromoethane	107	12.720	12.720	(0.974)	38855	125.000	101.3
73 1-Chlorohexane	55	12.976	12.976	(0.994)	120793	125.000	128.2
72 Chlorobenzene	112	13.075	13.075	(1.002)	197275	125.000	111.5
74 1,1,1,2-Tetrachloroethane	131	13.124	13.124	(1.005)	64162	125.000	100.7
75 Ethylbenzene	106	13.114	13.114	(1.005)	112772	125.000	114.7
76 m,p-Xylene	106	13.193	13.193	(1.011)	285516	250.000	233.6
77 o-Xylene	106	13.498	13.498	(1.034)	129995	125.000	113.7
78 Styrene	104	13.508	13.508	(1.035)	193957	125.000	106.8
79 Bromoform	173	13.715	13.715	(1.050)	27325	125.000	89.00
81 Isopropyl Benzene	105	13.744	13.744	(1.053)	373603	125.000	112.1
80 cis-1,4-dichloro-2-butene	75	13.813	13.813	(1.058)	586350	5000.00	4648
82 1,1,2,2-Tetrachloroethane	83	13.990	13.990	(0.949)	45520	125.000	111.4
84 Bromobenzene	156	14.039	14.039	(1.075)	77722	125.000	109.7
83 1,2,3-Trichloropropane	110	14.039	14.039	(1.075)	9153	125.000	97.04
85 trans-1,4-dichloro-2-butene	53	14.010	14.010	(1.073)	478836	5000.00	4074
86 n-Propyl Benzene	91	14.039	14.039	(0.953)	575048	125.000	126.3
87 2-Chlorotoluene	126	14.148	14.148	(0.960)	85456	125.000	121.6
89 1,3,5-Trimethyl Benzene	105	14.138	14.138	(0.959)	285742	125.000	116.8
88 4-Chlorotoluene	126	14.216	14.216	(0.965)	62246	125.000	119.8
91 tert-Butyl Benzene	119	14.394	14.394	(0.977)	274910	125.000	116.5
90 Pentachloroethane	167	14.463	14.463	(0.981)	43955	125.000	107.6
92 1,2,4-Trimethyl Benzene	105	14.423	14.423	(0.979)	276398	125.000	114.9
93 sec-Butyl Benzene	105	14.541	14.541	(0.987)	394466	125.000	121.7
94 1,3-Dichlorobenzene	146	14.699	14.699	(0.997)	153787	125.000	118.8
95 p-Isopropyl Toluene	119	14.630	14.630	(0.993)	305736	125.000	117.0
96 1,4-Dichlorobenzene	146	14.758	14.758	(1.001)	148000	125.000	117.5
97 Benzyl Chloride	91	14.846	14.846	(1.007)	89363	125.000	115.7
99 n-Butyl Benzene	91	14.925	14.925	(1.013)	327225	125.000	125.8
98 1,2-Dichlorobenzene	146	15.053	15.053	(1.021)	119441	125.000	114.4
100 1,2-diethylbenzene	119	15.014	15.014	(1.019)	147887	125.000	119.2
101 1,2-Dibromo-3-Chloropropane	75	15.673	15.673	(1.063)	5021	125.000	64.24
102 1,2,4-Trichlorobenzene	180	16.372	16.372	(1.111)	75623	125.000	104.8
103 Hexachlorobutadiene	225	16.451	16.451	(1.116)	55117	125.000	113.2
104 Naphthalene	128	16.648	16.648	(1.130)	52979	125.000	57.56
105 1,2,3-Trichlorobenzene	180	16.884	16.884	(1.146)	56504	125.000	97.87
M 106 1,2-Dichloroethene (total)	96				177963	250.000	225.4
M 107 Xylene (total)	106				415511	125.000	363.4

COMPUCHEM a division of Liberty Analytical Corp DATE 3/7/02 INITIAL TIME OF TUNE 1949 SHIFT/S(A) ____ (B) ✓ (C) ____

GC/MS VOLATILE RUN LOG TIME TUNE EXPIRES 0749 LINKER /METHOD W8260-B-25mL v6

COMPUCHEM LOGBOOK 11 ZZZ 4 (5972hp73)

PREVENTIVE MAINTENANCE None

	REJECTED	FILE NAME	REPORTED	DATE	TIME	CLIENT ID#	CASE/SDG#	SAMPLE VOLUME	CHEMIST	COMMENTS(ETC.)/DISPOSITION
1		BF020307B73	/	3/7/2002	1949	BFB	—	2ul	2323	LCD = SCD
2	/	CS020307B73	US	/ /	2007	VSTD005	—	25mL		
3		CT020307B73	/	/ /	2039	|	—			
4		WG16179-1B73	/	/ /	2106	VBLKZK	VARIOUS			
5		WG16179-4B73	/	/ /	2132	VZKLLS	|			
6		V2088-2D2RB73	/	/ /	2159	VMP-3D	V2088	7mL		
7		V2088-6DRB73	/	/ /	2228	MW-1		400ul		
8	/	V2088-7D3RB73	DW	/ /	2255	MW-6		700ul		use 800ul
9		V2088-3R2B73	/	/ /	2322	VMP-2D		25mL		
10		V2088-4RB73	/	/ /	2348	VMP-1D				
11		V2088-5RB73	/	3/8/2002	0015	VMP-11D				
12		V2088-8RB73	/	/ /	0042	FB022302				
13		V2088-9RB73	/	/ /	0109	TB022302				
14		V2088-10RB73	/	/ /	0135	FB022202				
15		V2088-7D4B73	/	/ /	0202	MW-6		800ul		
16		WG16037-6R2B73	/	/ /	0229	MW-6 MS				
17		WG16037-7R2B73	/	/ /	0256	MW-6 MSD				
18		CB020307B73	/	/ /	0322	VIBLKAA	—	25mL		
19		QE1877-4RB73	/	/ /	0349	MW-9A	QE1877			
20		QE1877-6RB73	/	/ /	0416	MW-21B				
21	/	QE1877-5DB73	DS	/ /	0443	MW-11B		500ul		
22	/	QE1877-3DB73	DW	/ /	0509	MW-8A		10ul		
23				/ /						
24				/ /						Jms 3-8-2

STANDARDS

	Tune	Analytical	Int. Std.
Std. ID #	7008	ME109	
Lot #	52708		52731

SUPERVISOR APPROVAL [signature]

DATE 3-8-2

The presence of the Chemist's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist together with the chemist's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation

2/20/02 dce

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Instrument ID: 5972HP73 Calibration Date: 03/08/02 Time: 0850

Lab File ID: CS020308A73 Init. Calib. Date(s): 02/22/02 02/22/02

Init. Calib. Times: 2021 2250

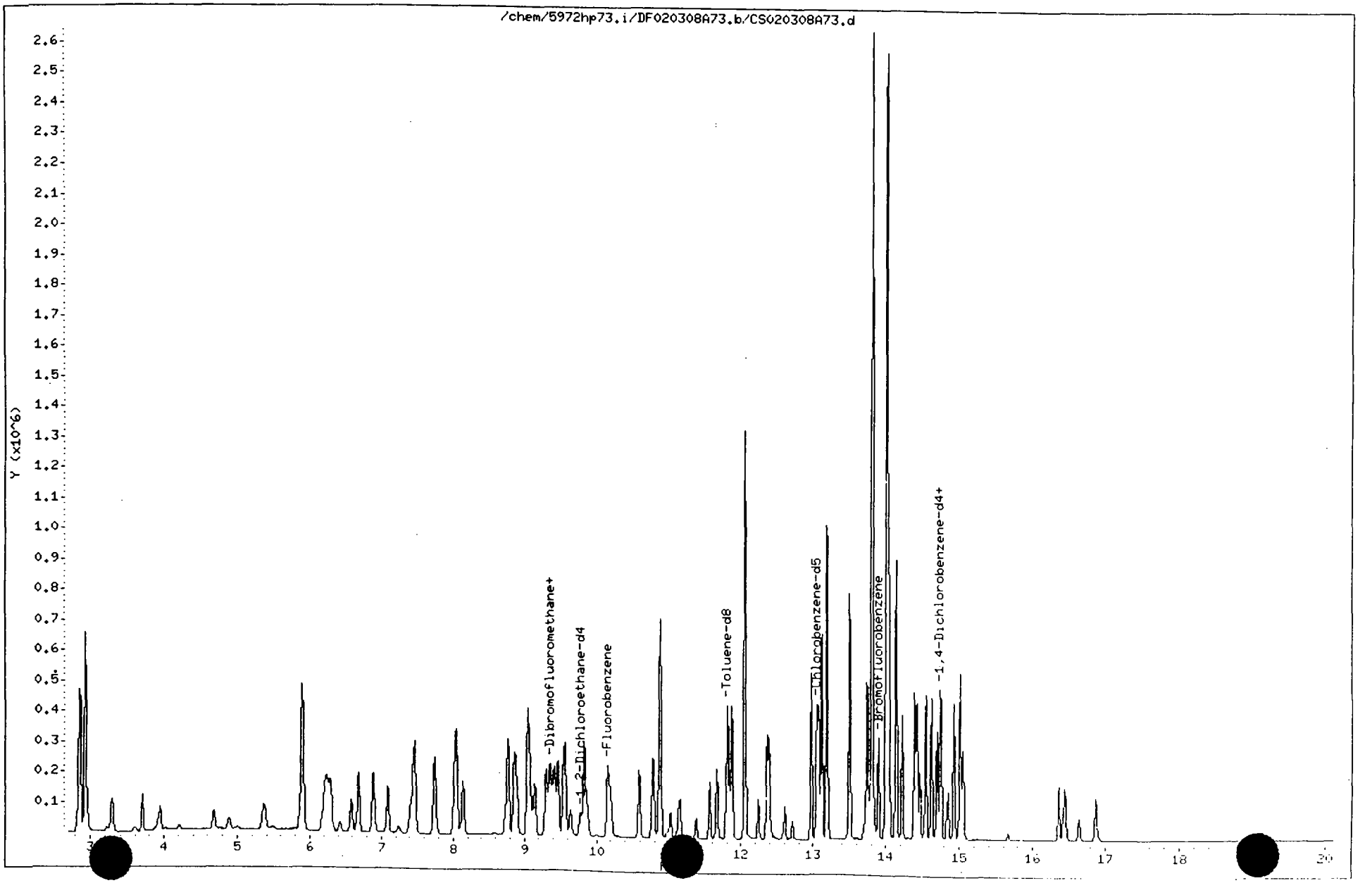
GC Column: ZB-624 ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF5 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Chloromethane	0.4490000	0.4860306	0.1	8.25	90.00	AVRG
Vinyl Chloride	0.3610000	0.3391848	0.001	-6.04	20.00	AVRG
Bromomethane	0.1690000	0.2030721	0.001	20.16	90.00	AVRG
Chloroethane	0.1690000	0.1470456	0.001	-12.99	90.00	AVRG
1,1-Dichloroethene	0.3360000	0.2774303	0.001	-17.43	20.00	AVRG
Carbon disulfide	1.4020000	1.2581070	0.001	-10.26	90.00	AVRG
Acetone	0.0510000	0.0424763	0.001	-16.71	90.00	AVRG
Methylene Chloride	0.3210000	0.2933974	0.001	-8.60	90.00	AVRG
trans-1,2-Dichloroethene	0.3540000	0.3065641	0.001	-13.40	90.00	AVRG
1,1-Dichloroethane	0.6590000	0.5661821	0.1	-14.08	90.00	AVRG
cis-1,2-Dichloroethene	0.3410000	0.3037237	0.001	-10.93	90.00	AVRG
2-butanone	0.0640000	0.0598708	0.001	-6.45	90.00	AVRG
loroform	0.6450000	0.5354356	0.001	-16.99	20.00	AVRG
1,1-Trichloroethane	0.6070000	0.4620218	0.001	-23.88	90.00	AVRG
Carbon Tetrachloride	0.5250000	0.3798363	0.001	-27.65	90.00	AVRG
Benzene	1.3710000	1.2246255	0.001	-10.68	90.00	AVRG
1,2-Dichloroethane	0.3540000	0.2717641	0.001	-23.23	90.00	AVRG
Trichloroethene	0.3870000	0.3060556	0.001	-20.92	90.00	AVRG
1,2-Dichloropropane	0.2860000	0.2597779	0.001	-9.17	20.00	AVRG
Bromodichloromethane	0.4090000	0.3190625	0.001	-21.99	90.00	AVRG
cis-1,3-Dichloropropene	0.4440000	0.3761532	0.001	-15.28	90.00	AVRG
4-Methyl-2-pentanone	0.2110000	0.1928226	0.001	-8.61	90.00	AVRG
Toluene	1.0300000	0.9061574	0.001	-12.02	20.00	AVRG
trans-1,3-Dichloropropene	0.4440000	0.3632317	0.001	-18.19	90.00	AVRG
1,1,2-Trichloroethane	0.2150000	0.1939821	0.001	-9.78	90.00	AVRG
Tetrachloroethene	0.4120000	0.3866030	0.001	-6.16	90.00	AVRG
2-hexanone	0.1420000	0.1381888	0.001	-2.68	90.00	AVRG
Dibromochloromethane	0.3290000	0.2558893	0.001	-22.22	90.00	AVRG
Chlorobenzene	1.0560000	0.9319329	0.3	-11.75	90.00	AVRG
Ethylbenzene	0.5870000	0.5300282	0.001	-9.70	20.00	AVRG
m,p-Xylene	0.7290000	0.6925352	0.001	-5.00	90.00	AVRG
o-Xylene	0.6820000	0.6099253	0.001	-10.57	90.00	AVRG
Styrene	1.0830000	0.8975150	0.001	-17.13	90.00	AVRG
Bromoform	0.1830000	0.1435525	0.1	-21.56	90.00	AVRG
1,1,2,2-Tetrachloroethane	0.4940000	0.4494579	0.3	-9.02	90.00	AVRG
Xylene (total)	0.6820000	0.6099253	0.001	-10.57	90.00	AVRG
Dibromofluoromethane	0.2900000	0.3202284	0.001	10.42	90.00	AVRG
1,2-Dichloroethane-d4	0.2460000	0.2411193	0.001	-1.98	90.00	AVRG
Toluene-d8	1.2540000	1.3725303	0.001	9.45	90.00	AVRG
omofluorobenzene	0.9040000	0.9816373	0.001	8.59	90.00	AVRG

Data File: /chem/5972hp73.i/DF020308A73.b/CS020308A73.d
Date : 08-MAR-2002 08:50
Client ID: VSTD005
Sample Info:
Purge Volume: 25.0
Column phase: ZB-624

Instrument: 5972hp73.i

Operator: 2429
Column diameter: 0.32



Data File: /chem/5972hp73.i/DF020308A73.b/CS020308A73.d
Report Date: 11-Mar-2002 11:23

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF020308A73.b/CS020308A73.d
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 08-MAR-2002 08:50
Operator : 2429 Inst ID: 5972hp73.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp73.i/DF020308A73.b/W8260-B-25MLv6.m
Meth Date : 11-Mar-2002 10:33 curtis Quant Type: ISTD
Cal Date : 22-FEB-2002 22:50 Cal File: CY020222B73.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	RBL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
• 1 Fluorobenzene	96	10.164	10.164	(1.000)	275316	125.000	
• 2 Chlorobenzene-d5	117	13.048	13.048	(1.000)	204225	125.000	
• 3 1,4-Dichlorobenzene-d4	152	14.731	14.731	(1.000)	106248	125.000	
4 Dibromofluoromethane	113	9.347	9.347	(0.920)	88164	125.000	138.1
5 1,2-Dichloroethane-d4	65	9.770	9.770	(0.961)	66384	125.000	122.4
6 Toluene-d8	98	11.808	11.808	(0.905)	280305	125.000	136.8
7 Bromofluorobenzene	95	13.894	13.894	(0.943)	104297	125.000	135.8
8 Dichlorodifluoromethane	85	3.294	3.294	(0.324)	114556	125.000	118.7
9 Chloromethane	50	3.697	3.697	(0.364)	133812	125.000	135.2
10 Vinyl Chloride	62	3.943	3.943	(0.388)	93383	125.000	117.4
11 Bromomethane	94	4.682	4.682	(0.461)	55909	125.000	150.5
12 Chloroethane	64	4.888	4.888	(0.481)	40484	125.000	108.9
13 Trichlorofluoromethane	101	5.361	5.361	(0.527)	119642	125.000	115.0
14 Diethylether	74	5.892	5.892	(0.580)	248031	1250.00	1332
15 Acrolein	56	6.178	6.178	(0.608)	26508	1250.00	593.6
16 1,1-Dichloroethene	96	6.296	6.296	(0.619)	76381	125.000	103.2

NDD 3/11/02

Data File: /chem/5972hp73.i/DF020308A73.b/CS020308A73.d
Report Date: 11-Mar-2002 11:23

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
63 Toluene	92	11.867	11.867	(0.909)	185060	125.000	110.0
64 trans-1,3-Dichloropropene	75	12.064	12.064	(0.925)	74181	125.000	102.3
66 Ethylmethacrylate	69	12.054	12.054	(0.924)	587322	1250.00	1243
65 1,1,2-Trichloroethane	97	12.241	12.241	(0.938)	39616	125.000	112.6
67 1,3-Dichloropropane	76	12.388	12.388	(0.949)	72360	125.000	115.3
68 Tetrachloroethene	164	12.359	12.359	(0.947)	78954	125.000	117.2
69 2-hexanone	43	12.388	12.388	(0.949)	141108	625.000	609.8
70 Dibromochloromethane	129	12.605	12.605	(0.966)	52259	125.000	97.37
71 1,2-Dibromoethane	107	12.723	12.723	(0.975)	40797	125.000	109.1
73 1-Chlorohexane	55	12.969	12.969	(0.994)	115425	125.000	125.6
72 Chlorobenzene	112	13.067	13.067	(1.002)	190324	125.000	110.3
74 1,1,1,2-Tetrachloroethane	131	13.117	13.117	(1.005)	65262	125.000	105.0
75 Ethylbenzene	106	13.107	13.107	(1.005)	108245	125.000	112.9
76 m,p-Xylene	106	13.195	13.195	(1.011)	282866	250.000	237.3
77 o-Xylene	106	13.501	13.501	(1.035)	124562	125.000	111.7
78 Styrene	104	13.510	13.510	(1.035)	183295	125.000	103.5
79 Bromoform	173	13.707	13.707	(1.051)	29317	125.000	97.93
81 Isopropyl Benzene	105	13.737	13.737	(1.053)	349413	125.000	107.5
80 cis-1,4-dichloro-2-butene	75	13.815	13.815	(1.059)	625195	5000.00	5082
82 1,1,2,2-Tetrachloroethane	83	13.983	13.983	(0.949)	47754	125.000	113.7
84 Bromobenzene	156	14.042	14.042	(1.076)	76371	125.000	110.5
83 1,2,3-Trichloropropane	110	14.032	14.032	(1.075)	10329	125.000	112.3
85 trans-1,4-dichloro-2-butene	53	14.002	14.002	(1.073)	516305	5000.00	4505
86 n-Propyl Benzene	91	14.032	14.032	(0.953)	526409	125.000	112.5
87 2-Chlorotoluene	126	14.150	14.150	(0.961)	78123	125.000	108.2
[illegible] 1,3,5-Trimethyl Benzene	105	14.140	14.140	(0.960)	263981	125.000	105.0
[illegible]8 4-Chlorotoluene	126	14.219	14.219	(0.965)	76230	125.000	108.1
91 tert-Butyl Benzene	119	14.386	14.386	(0.977)	244018	125.000	100.6
90 Pentachloroethane	167	14.465	14.465	(0.982)	41050	125.000	97.76
92 1,2,4-Trimethyl Benzene	105	14.426	14.426	(0.979)	249004	125.000	100.7
93 sec-Butyl Benzene	105	14.544	14.544	(0.987)	351310	125.000	105.5
94 1,3-Dichlorobenzene	146	14.691	14.691	(0.997)	143083	125.000	107.5
95 p-Isopropyl Toluene	119	14.623	14.623	(0.993)	264647	125.000	98.55
96 1,4-Dichlorobenzene	146	14.751	14.751	(1.001)	139119	125.000	107.5
97 Benzyl Chloride	91	14.839	14.839	(1.007)	96193	125.000	121.1
99 n-Butyl Benzene	91	14.928	14.928	(1.013)	259619	125.000	97.16
98 1,2-Dichlorobenzene	146	15.056	15.056	(1.022)	121278	125.000	113.1
100 1,2-diethylbenzene	119	15.006	15.006	(1.019)	150340	125.000	117.9
101 1,2-Dibromo-3-Chloropropane	75	15.666	15.666	(1.063)	5892	125.000	72.86
102 1,2,4-Trichlorobenzene	180	16.365	16.365	(1.111)	70995	125.000	95.52
103 Hexachlorobutadiene	225	16.443	16.443	(1.116)	42677	125.000	85.31
104 Naphthalene	128	16.640	16.640	(1.130)	69792	125.000	73.79
105 1,2,3-Trichlorobenzene	180	16.876	16.876	(1.146)	57378	125.000	96.71
* 106 1,2-Dichloroethene (total)	96				168022	250.000	219.5
* 107 Xylene (total)	106				407428	125.000	365.4

Data File: /chem/5972hp73.i/DF020308A73.b/CS020308A73.d
Report Date: 11-Mar-2002 11:23

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
17 1,1,1-trichloro-2,2,2-trifluo	117	6.207	6.207	(0.611)	56485	125.000	117.7
20 1,1,2-trichloro-1,2,2-trifluo	85	6.247	6.247	(0.615)	60304	125.000	114.2
18 Acetone	43	6.424	6.424	(0.632)	58472	625.000	516.8
19 Iodomethane	142	6.581	6.581	(0.648)	159995	125.000	131.4
21 Carbon disulfide	76	6.680	6.680	(0.657)	346377	125.000	112.2
22 3-Chloropropene	39	6.877	6.877	(0.677)	125872	125.000	103.8
23 Acetonitrile	41	6.886	6.886	(0.678)	196743	125.000	115.2
163 Methyl acetate	43	6.906	6.906	(0.679)	30361	125.000	104.4
24 Methylene Chloride	84	7.083	7.083	(0.697)	80777	125.000	114.1
25 Acrylonitrile	53	7.467	7.467	(0.735)	130587	1250.00	1254
26 tert-butyl alcohol	59	7.231	7.231	(0.711)	32978	1250.00	1059
27 trans-1,2-Dichloroethene	96	7.457	7.457	(0.734)	84402	125.000	108.3
28 Methyl-tert-butyl ether	73	7.408	7.408	(0.729)	147388	125.000	111.7
29 n-hexane	57	7.743	7.743	(0.762)	153363	125.000	134.7
30 1,1-Dichloroethane	63	8.038	8.038	(0.791)	155879	125.000	107.3
32 Vinyl acetate	43	8.048	8.048	(0.792)	349290	250.000	266.5
33 Isopropyl ether	45	8.018	8.018	(0.789)	310725	125.000	109.3
35 2,2-Dichloropropane	77	8.756	8.756	(0.862)	132808	125.000	100.2
34 cis-1,2-Dichloroethene	96	8.776	8.776	(0.863)	83620	125.000	111.3
31 Chloroprene	53	8.136	8.136	(0.800)	140350	125.000	93.91
37 2-butanone	43	8.766	8.766	(0.862)	82417	625.000	581.7
36 Propionitrile	54	8.884	8.884	(0.874)	224679	6250.00	6209
38 Methyl acrylate	55	8.855	8.855	(0.871)	356674	1250.00	1210
39 Methacrylonitrile	41	9.042	9.042	(0.890)	282382	1250.00	1208
[illegible] Bromochloromethane	128	9.081	9.081	(0.893)	32380	125.000	113.9
[illegible] Chloroform	83	9.140	9.140	(0.899)	147414	125.000	103.8
41 Tetrahydrofuran	42	9.111	9.111	(0.896)	44828	500.000	453.9
43 1,1,1-Trichloroethane	97	9.298	9.298	(0.915)	201436	125.000	95.08
45 Pentafluorobenzene	168	9.406	9.406	(0.925)	109089	125.000	123.0
44 Cyclohexane	84	9.465	9.465	(0.931)	261300	125.000	112.3
46 1-chlorobutane	56	9.642	9.642	(0.949)	69411	6250.00	5205
50 Isobutyl alcohol	43	9.544	9.544	(0.939)	114304	125.000	102.8
47 1,1-dichloropropene	75	9.554	9.554	(0.940)	104575	125.000	90.50
48 Carbon Tetrachloride	117	9.829	9.829	(0.967)	337159	125.000	111.6
51 Benzene	78	9.869	9.869	(0.971)	74821	125.000	95.87
49 1,2-Dichloroethane	62	10.203	10.203	(1.004)	66456	1250.00	1640
52 Crotonaldehyde	41	10.587	10.587	(1.042)	84262	125.000	98.69
53 Trichloroethene	130	10.774	10.774	(1.060)	123524	125.000	102.0
54 Methylcyclohexane	83	10.863	10.863	(1.069)	71521	125.000	113.4
55 1,2-Dichloropropane	63	11.020	11.020	(1.084)	34713	125.000	115.3
56 Dibromomethane	174	10.882	10.882	(1.071)	251960	1250.00	1258
58 Methylmethacrylate	69	10.981	10.981	(1.080)	15123	6250.00	5818
57 1,4-dioxane	88	11.148	11.148	(1.097)	87843	125.000	97.45
59 Bromodichloromethane	83	11.375	11.375	(1.119)	27039	1250.00	1297
60 2-chloroethyl vinyl ether	63	11.562	11.562	(1.137)	103561	125.000	106.0
61 cis-1,3-Dichloropropene	75	11.660	11.660	(0.894)	196896	625.000	570.9
62 4-Methyl-2-pentanone	43						

COMPUCHEM a division of Liberty Analytical Corp DATE 3 / 8 / 2 INITIAL TIME OF TUNE 0826 SHIFT/S(A) ✓ (B)____ (C)____

GC/MS VOLATILE RUN LOG TIME TUNE EXPIRES 2026 LINKER /METHOD W8260-25ml

COMPUCHEM .LOGBOOK 11 ZZZ 4 (5972hp73)

PREVENTIVE MAINTENANCE None

46895

	SELECTED	FILE NAME	REPORTED	DATE	TIME	CLIENT ID#	CASE/SDG#	SAMPLE VOLUME	CHEMIST	COMMENTS(ETC.)/DISPOSITION
1		BF020308A73	/	3/8/2	0826	BFB	—	2ml	2429	LCP-SCN
2		CS020308A73	/	/ /	0850	VSTD005	—	25ml		
3		WG16049-1A73	/	/ /	0925	VBLKWS	VARIOUS	↓		
4		WG16049-5A73 ADD3	/	/ /	0957	VWSLCS	↓	50ml		Full Spk
5	/	QE1877-3D2A73	DS	/ /	1031	MW-8A	QE1877	50ml		m,p xylene @ 54
6	/	QE1877-5D2A73	CS	/ /	1058	MW-11B	↓	100ml		
7		CB020308A73	/	/ /	1125	VIBLK4A	—	25ml		
8		QE1877-3D3A73	/	/ /	1200	MW-5A DL	QE1877	35ml		
9		QE1877-5D3A73	/	/ /	1227	MW-11B DL	↓	100ml		
10		V2408-1DA73	/	/ /	1254	P-5	V2408	2.5ml		
11		WG16049-6RA73	/	/ /	1320	P-5MS	↓	↓		
12		WG16049-7RA73	/	/ /	1347	P-5MSD	↓	↓		
13		N2082-4A73	/	/ /	1441	OT052027	N2082	25ml		
14	/	N2082-1A73	DS	/ /	1441	OT052003	↓	5ml		Small
15		WG16184-6A73	/	/ /	1507	MS	↓	↓		
16		WG16184-7A73	/	/ /	1534	MSD	↓	↓		
17		CB020308A73	/	/ /	1601	VIBLK8	↓	25ml		
18		N2082-1DA73	/	/ /	1627	OT052003 DL	↓	2.5ml		
19		N2082-2A73	/	/ /	1654	OT052027	↓	25ml		
20	/	E2322-1A73	DS	/ /	1721	041MW001	E2322	↓		1,3,5-TMB @ 547
21	/	E2322-2A73	DS	/ /	1747	CAAF16	↓	↓		
22		E2322-3A73	/	/ /	1814	CAAF28	↓	↓		
23		E2322-4A73	/	/ /	1841	CAAF40	↓	↓		
24	/	E2322-5A73	DS	/ /	1936	CAAF41	↓	↓		Benzene @ 392

	Tune	STANDARDS Analytical	Int. Std.
Std. ID #	7008	M8109	
Lot #	52908		52231

SUPERVISOR APPROVAL 2331 [signature]

DATE 3-11-2

The presence of the Chemist's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist together with the chemist's initials and the initials of the lab supervisor and a[illegible]partment representative, signifying approval of the deviation.

2/20/02 dce

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Instrument ID: 5972HP73 Calibration Date: 03/13/02 Time: 1013

Lab File ID: CS020313A73 Init. Calib. Date(s): 02/22/02 02/22/02

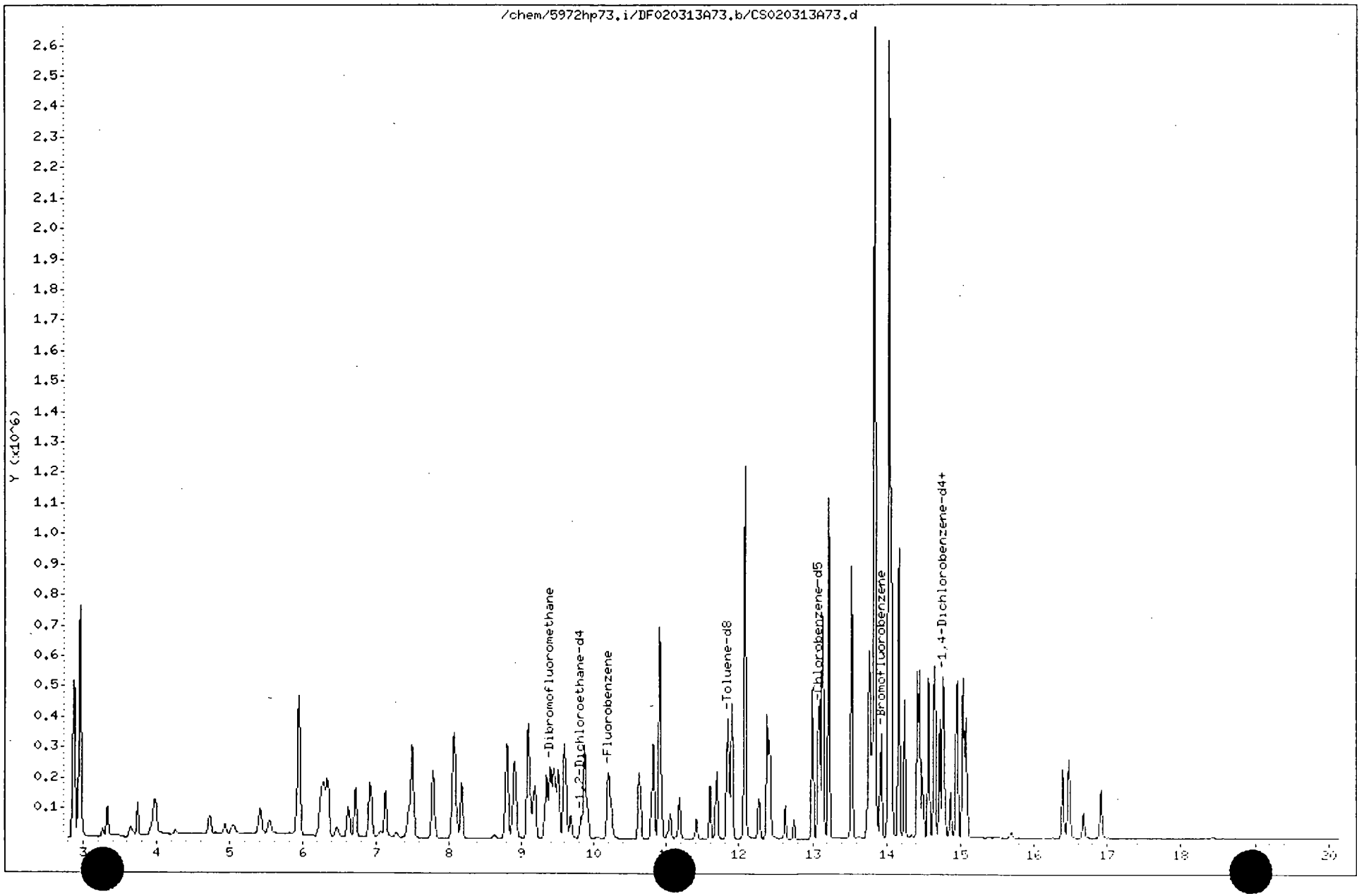
Init. Calib. Times: 2021 2250

GC Column: ZB-624 ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF5 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Chloromethane	0.4490000	0.4713043	0.1	4.97	90.00	AVRG
Vinyl Chloride	0.3610000	0.3555774	0.001	-1.50	20.00	AVRG
Bromomethane	0.1690000	0.2217157	0.001	31.19	90.00	AVRG
Chloroethane	0.1690000	0.1538446	0.001	-8.97	90.00	AVRG
1,1-Dichloroethene	0.3360000	0.3489638	0.001	3.86	20.00	AVRG
Carbon disulfide	1.4020000	1.1892836	0.001	-15.17	90.00	AVRG
Acetone	0.0510000	0.0466295	0.001	-8.57	90.00	AVRG
Methylene Chloride	0.3210000	0.3335643	0.001	3.91	90.00	AVRG
trans-1,2-Dichloroethene	0.3540000	0.3748105	0.001	5.88	90.00	AVRG
1,1-Dichloroethane	0.6590000	0.6409091	0.1	-2.74	90.00	AVRG
cis-1,2-Dichloroethene	0.3410000	0.3478696	0.001	2.01	90.00	AVRG
2-butanone	0.0640000	0.0643284	0.001	0.51	90.00	AVRG
hloroform	0.6450000	0.6192161	0.001	-4.00	20.00	AVRG
,1,1-Trichloroethane	0.6070000	0.5667039	0.001	-6.64	90.00	AVRG
Carbon Tetrachloride	0.5250000	0.4776384	0.001	-9.02	90.00	AVRG
Benzene	1.3710000	1.3903599	0.001	1.41	90.00	AVRG
1,2-Dichloroethane	0.3540000	0.3090062	0.001	-12.71	90.00	AVRG
Trichloroethene	0.3870000	0.3701502	0.001	-4.35	90.00	AVRG
1,2-Dichloropropane	0.2860000	0.2875159	0.001	0.53	20.00	AVRG
Bromodichloromethane	0.4090000	0.3732747	0.001	-8.73	90.00	AVRG
cis-1,3-Dichloropropene	0.4440000	0.4255680	0.001	-4.15	90.00	AVRG
4-Methyl-2-pentanone	0.2110000	0.1829376	0.001	-13.30	90.00	AVRG
Toluene	1.0300000	0.9950082	0.001	-3.40	20.00	AVRG
trans-1,3-Dichloropropene	0.4440000	0.3905377	0.001	-12.04	90.00	AVRG
1,1,2-Trichloroethane	0.2150000	0.2068418	0.001	-3.79	90.00	AVRG
Tetrachloroethene	0.4120000	0.4725704	0.001	14.70	90.00	AVRG
2-hexanone	0.1420000	0.1287403	0.001	-9.34	90.00	AVRG
Dibromochloromethane	0.3290000	0.2790768	0.001	-15.17	90.00	AVRG
Chlorobenzene	1.0560000	1.0166928	0.3	-3.72	90.00	AVRG
Ethylbenzene	0.5870000	0.5863716	0.001	-0.11	20.00	AVRG
m,p-Xylene	0.7290000	0.7336336	0.001	0.64	90.00	AVRG
o-Xylene	0.6820000	0.6811799	0.001	-0.12	90.00	AVRG
Styrene	1.0830000	1.0016924	0.001	-7.51	90.00	AVRG
Bromoform	0.1830000	0.1513800	0.1	-17.28	90.00	AVRG
1,1,2,2-Tetrachloroethane	0.4940000	0.4365533	0.3	-11.63	90.00	AVRG
Xylene (total)	0.6820000	0.6811799	0.001	-0.12	90.00	AVRG
Dibromofluoromethane	0.2900000	0.3395944	0.001	17.10	90.00	AVRG
1,2-Dichloroethane-d4	0.2460000	0.2443042	0.001	-0.69	90.00	AVRG
Toluene-d8	1.2540000	1.2835111	0.001	2.35	90.00	AVRG
romofluorobenzene	0.9040000	0.9466958	0.001	4.72	90.00	AVRG

Data File: /chem/5972hp73.i/DF020313A73.b/CS020313A73.d
Date : 13-MAR-2002 10:13
Client ID: VSTD005
Sample Info:
Purge Volume: 25.0
Column phase: ZB-624

Instrument: 5972hp73.i
Operator: 2429
Column diameter: 0.32



Data File: /chem/5972hp73.i/DF020313A73.b/CS020313A73.d
Report Date: 18-Mar-2002 11:19

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF020313A73.b/CS020313A73.d
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 13-MAR-2002 10:13
Operator : 2429 Inst ID: 5972hp73.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp73.i/DF020313A73.b/W8260-B-25MLv6.m
Meth Date : 18-Mar-2002 11:19 mead Quant Type: ISTD
Cal Date : 22-FEB-2002 22:50 Cal File: CY020222B73.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
1 Fluorobenzene	96	10.202	10.202	(1.000)	246762	125.000	
2 Chlorobenzene-d5	117	13.076	13.076	(1.000)	199128	125.000	
3 1,4-Dichlorobenzene-d4	152	14.759	14.759	(1.000)	108603	125.000	
4 Dibromofluoromethane	113	9.385	9.385	(0.920)	83799	125.000	146.4
5 1,2-Dichloroethane-d4	65	9.819	9.819	(0.962)	60285	125.000	124.0
6 Toluene-d8	98	11.836	11.836	(0.905)	255583	125.000	128.0
7 Bromofluorobenzene	95	13.923	13.923	(0.943)	102814	125.000	131.0
8 Dichlorodifluoromethane	85	3.332	3.332	(0.327)	104165	125.000	120.4
9 Chloromethane	50	3.736	3.736	(0.366)	116300	125.000	131.1
10 Vinyl Chloride	62	3.982	3.982	(0.390)	87743	125.000	123.1
11 Bromomethane	94	4.720	4.720	(0.463)	54711	125.000	164.3
12 Chloroethane	64	4.937	4.937	(0.484)	37963	125.000	113.9
13 Trichlorofluoromethane	101	5.409	5.409	(0.530)	118334	125.000	126.9
14 Diethylether	74	5.931	5.931	(0.581)	235841	1250.00	1413
15 Acrolein	56	6.226	6.226	(0.610)	33469	1250.00	886.2
16 1,1-Dichloroethene	96	6.344	6.344	(0.622)	86111	125.000	129.8

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Data File: /chem/5972hp73.i/DF020313A73.b/CS020313A73.d
Report Date: 18-Mar-2002 11:19

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
17 1,1,1-trichloro-2,2,2-trifluo	117	6.256	6.256	(0.613)	53226	125.000	123.8
20 1,1,2-trichloro-1,2,2-trifluo	85	6.295	6.295	(0.617)	57585	125.000	121.7
18 Acetone	43	6.472	6.472	(0.634)	57532	625.000	567.3
19 Iodomethane	142	6.630	6.630	(0.650)	149135	125.000	136.6
21 Carbon disulfide	76	6.728	6.728	(0.659)	293470	125.000	106.0
22 3-Chloropropene	39	6.925	6.925	(0.679)	112290	125.000	103.3
23 Acetonitrile	41	6.925	6.925	(0.679)	171168	125.000	111.8
163 Methyl acetate	43	6.945	6.945	(0.681)	32379	125.000	116.8
24 Methylene Chloride	84	7.132	7.132	(0.699)	82311	125.000	129.7
25 Acrylonitrile	53	7.506	7.506	(0.736)	122623	1250.00	1314
26 tert-butyl alcohol	59	7.279	7.279	(0.713)	31968	1250.00	1146
27 trans-1,2-Dichloroethene	96	7.496	7.496	(0.735)	92489	125.000	132.4
28 Methyl-tert-butyl ether	73	7.456	7.456	(0.731)	138015	125.000	116.7
29 n-hexane	57	7.791	7.791	(0.764)	138702	125.000	135.9
30 1,1-Dichloroethane	63	8.076	8.076	(0.792)	158152	125.000	121.5
32 Vinyl acetate	43	8.096	8.096	(0.794)	321001	250.000	273.2
33 Isopropyl ether	45	8.067	8.067	(0.791)	319895	125.000	125.6
35 2,2-Dichloropropane	77	8.795	8.795	(0.862)	139866	125.000	117.7
34 cis-1,2-Dichloroethene	96	8.815	8.815	(0.864)	85841	125.000	127.5
31 Chloroprene	53	8.175	8.175	(0.801)	146351	125.000	109.3
37 2-butanone	43	8.805	8.805	(0.863)	79369	625.000	625.1
36 Propionitrile	54	8.923	8.923	(0.875)	202312	6250.00	6238
38 Methyl acrylate	55	8.893	8.893	(0.872)	321472	1250.00	1217
39 Methacrylonitrile	41	9.090	9.090	(0.891)	245613	1250.00	1172
40 Bromochloromethane	128	9.120	9.120	(0.894)	33334	125.000	130.8
42 Chloroform	83	9.189	9.189	(0.901)	152799	125.000	120.0
41 Tetrahydrofuran	42	9.149	9.149	(0.897)	42094	500.000	475.5
43 1,1,1-Trichloroethane	97	9.405	9.405	(0.922)	139841	125.000	116.6
45 Pentafluorobenzene	168	9.336	9.336	(0.915)	196101	125.000	133.6
44 Cyclohexane	84	9.454	9.454	(0.927)	116884	125.000	134.2
46 1-chlorobutane	56	9.504	9.504	(0.932)	228916	125.000	120.6
50 Isobutyl alcohol	43	9.681	9.681	(0.949)	62341	6250.00	5260
47 1,1-dichloropropene	75	9.592	9.592	(0.940)	121724	125.000	122.1
48 Carbon Tetrachloride	117	9.602	9.602	(0.941)	117863	125.000	113.9
51 Benzene	78	9.879	9.878	(0.968)	343088	125.000	126.7
49 1,2-Dichloroethane	62	9.917	9.917	(0.972)	76251	125.000	109.0
52 Crotonaldehyde	41	10.242	10.242	(1.004)	60364	1250.00	1662
53 Trichloroethene	130	10.635	10.635	(1.042)	91339	125.000	119.4
54 Methylcyclohexane	83	10.822	10.822	(1.061)	151176	125.000	139.3
55 1,2-Dichloropropane	63	10.901	10.901	(1.068)	70948	125.000	125.5
56 Dibromomethane	174	11.059	11.059	(1.084)	36904	125.000	136.7
58 Methylmethacrylate	69	10.911	10.911	(1.069)	227104	1250.00	1265
57 1,4-dioxane	88	11.019	11.019	(1.080)	14060	6250.00	6035
59 Bromodichloromethane	83	11.177	11.177	(1.095)	92110	125.000	114.0
61 2-chloroethyl vinyl ether	63	11.403	11.403	(1.118)	28044	1250.00	1501
60 cis-1,3-Dichloropropene	75	11.600	11.600	(1.137)	105014	125.000	119.9
62 4-Methyl-2-pentanone	43	11.688	11.688	(0.894)	182140	625.000	541.7

Data File: /chem/5972hp73.i/DF020313A73.b/CS020313A73.d
Report Date: 18-Mar-2002 11:19

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
63 Toluene	92	11.905	11.905	(0.910)	198134	125.000	120.8
64 trans-1,3-Dichloropropene	75	12.092	12.092	(0.925)	77767	125.000	110.0
66 Ethylmethacrylate	69	12.082	12.082	(0.924)	526405	1250.00	1143
65 1,1,2-Trichloroethane	97	12.269	12.269	(0.938)	41188	125.000	120.1
67 1,3-Dichloropropane	76	12.417	12.417	(0.950)	73320	125.000	119.8
68 Tetrachloroethene	164	12.387	12.387	(0.947)	94102	125.000	143.3
69 2-hexanone	43	12.417	12.417	(0.950)	128179	625.000	568.1
70 Dibromochloromethane	129	12.633	12.633	(0.966)	55572	125.000	106.2
71 1,2-Dibromoethane	107	12.752	12.752	(0.975)	42117	125.000	115.5
73 1-Chlorohexane	55	12.998	12.998	(0.994)	103812	125.000	115.9
72 Chlorobenzene	112	13.096	13.096	(1.002)	202452	125.000	120.3
74 1,1,1,2-Tetrachloroethane	131	13.145	13.145	(1.005)	68811	125.000	113.6
75 Ethylbenzene	106	13.135	13.135	(1.004)	116763	125.000	125.0
76 m,p-Xylene	106	13.214	13.214	(1.011)	292174	250.000	251.4
77 o-Xylene	106	13.529	13.529	(1.035)	135642	125.000	124.8
78 Styrene	104	13.539	13.539	(1.035)	199465	125.000	115.6
79 Bromoform	173	13.736	13.736	(1.050)	30144	125.000	103.3(M)
81 Isopropyl Benzene	105	13.765	13.765	(1.053)	378518	125.000	119.5
80 cis-1,4-dichloro-2-butene	75	13.834	13.834	(1.058)	592171	5000.00	4937
82 1,1,2,2-Tetrachloroethane	83	14.011	14.011	(0.949)	47411	125.000	110.4
84 Bromobenzene	156	14.061	14.061	(1.075)	83633	125.000	124.1
83 1,2,3-Trichloropropane	110	14.061	14.061	(1.075)	10775	125.000	120.1
85 trans-1,4-dichloro-2-butene	53	14.031	14.031	(1.073)	504572	5000.00	4515
86 n-Propyl Benzene	91	14.061	14.061	(0.953)	580483	125.000	121.4
87 2-Chlorotoluene	126	14.169	14.169	(0.960)	87194	125.000	118.1
89 1,3,5-Trimethyl Benzene	105	14.159	14.159	(0.959)	295529	125.000	115.0
88 4-Chlorotoluene	126	14.238	14.238	(0.965)	85621	125.000	118.7
91 tert-Butyl Benzene	119	14.415	14.415	(0.977)	283444	125.000	114.3
90 Pentachloroethane	167	14.494	14.494	(0.982)	40577	125.000	94.54
92 1,2,4-Trimethyl Benzene	105	14.445	14.445	(0.979)	288941	125.000	114.4
93 sec-Butyl Benzene	105	14.563	14.563	(0.987)	403156	125.000	118.4
94 1,3-Dichlorobenzene	146	14.720	14.720	(0.997)	161597	125.000	118.8
95 p-Isopropyl Toluene	119	14.651	14.651	(0.993)	326767	125.000	119.0
96 1,4-Dichlorobenzene	146	14.779	14.779	(1.001)	160484	125.000	121.3
97 Benzyl Chloride	91	14.869	14.869	(1.007)	93242	125.000	114.9
98 n-Butyl Benzene	91	14.956	14.956	(1.013)	319610	125.000	117.1
99 1,2-Dichlorobenzene	146	15.074	15.074	(1.021)	131977	125.000	120.4
100 1,3-diethylbenzene	119	15.035	15.035	(1.019)	138198	125.000	106.1
101 1,2-Dibromo-3-Chloropropane	75	15.695	15.695	(1.063)	5625	125.000	68.52
102 1,2,4-Trichlorobenzene	180	16.393	16.393	(1.111)	90049	125.000	118.5
103 Hexachlorobutadiene	225	16.472	16.472	(1.116)	62705	125.000	122.6
104 Naphthalene	128	16.679	16.679	(1.130)	82053	125.000	84.87
105 1,2,3-Trichlorobenzene	180	16.918	16.918	(1.146)	68608	125.000	113.1
* 116 1,2-Dichloroethene (total)	96				178330	250.000	260.0
* 117 Xylene (total)	106				427816	125.000	393.6

Rwc 3/15/2

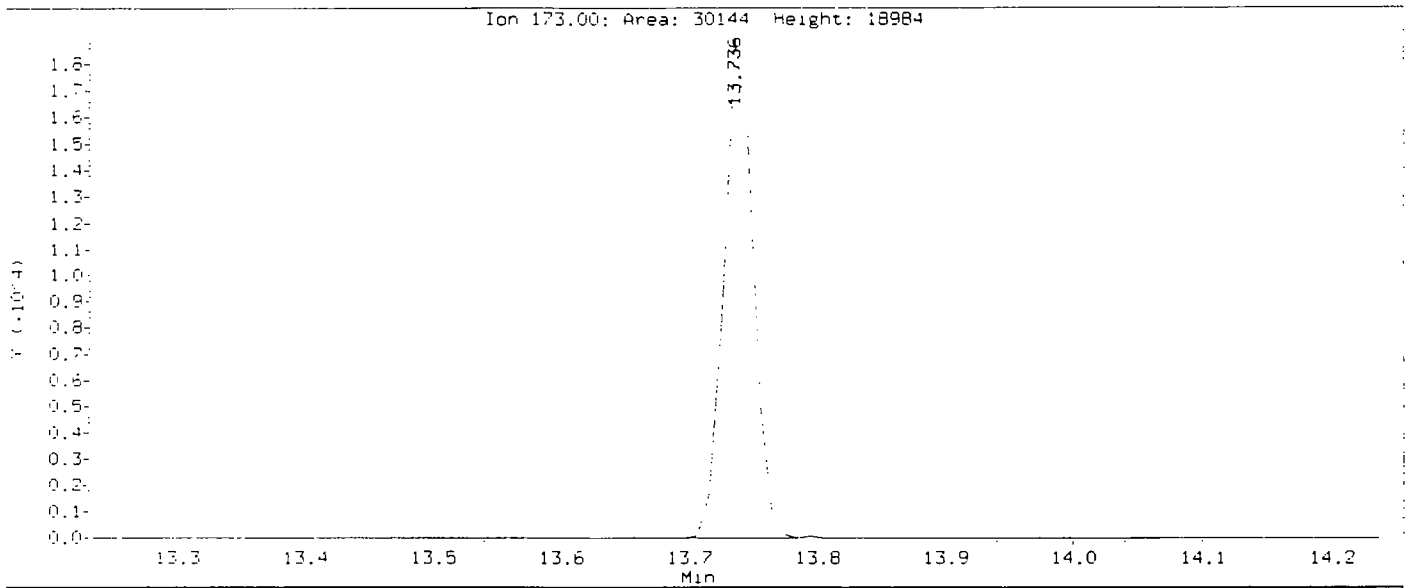
Data File: /chem/5972hp73.i/DF020313A73.b/CS020313A73.d
Report Date: 18-Mar-2002 11:19

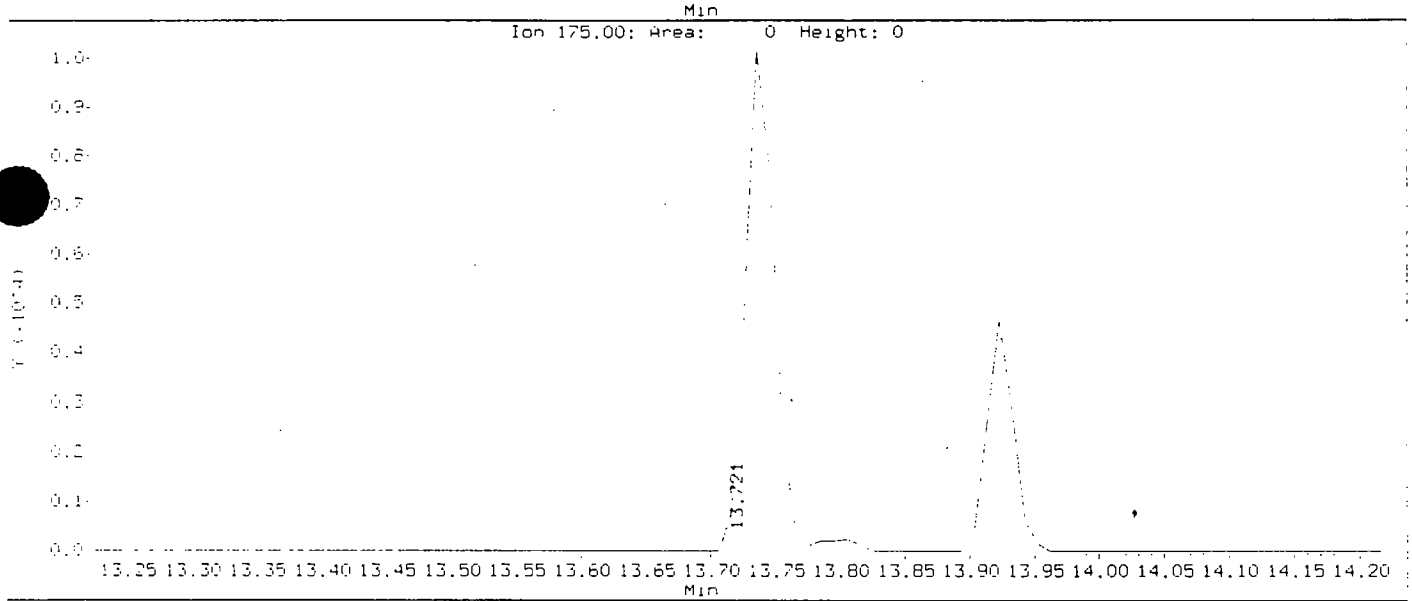
Flag Legend

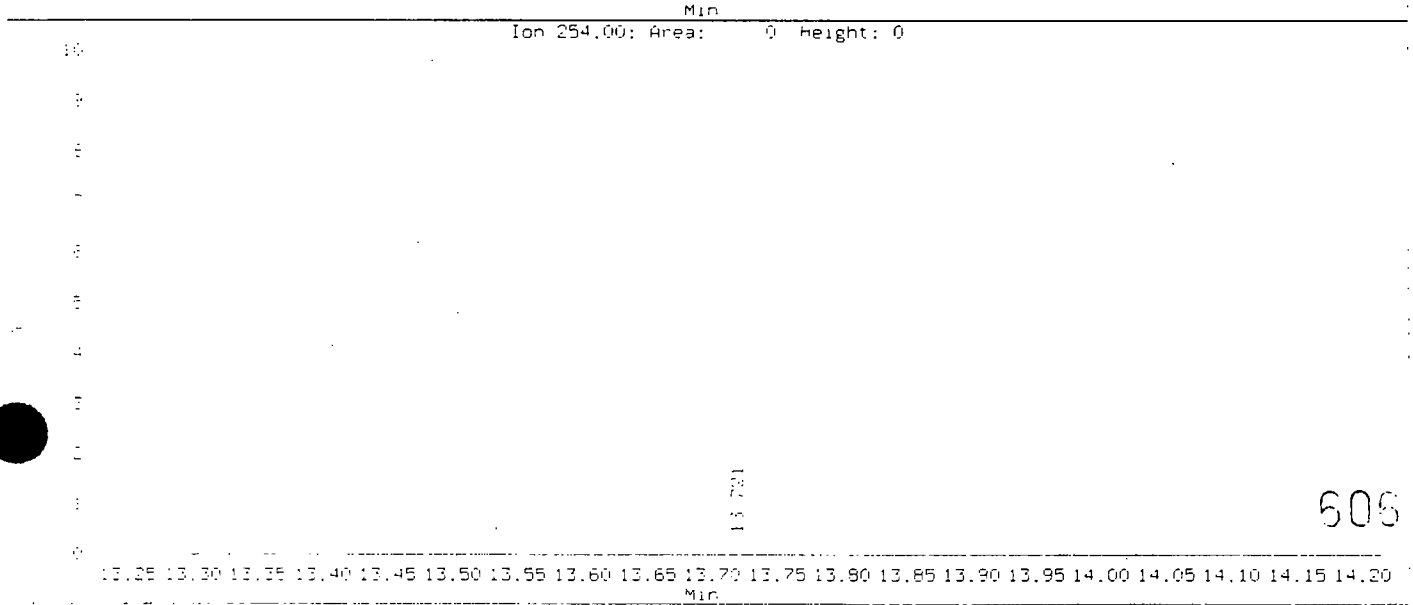
M - Compound response manually integrated.

Data File: /chem/5972hp73.i/DF020313A73.b/CS020313A73.d
Injection Date: 13-MAR-2002 10:13
Instrument: 5972hp73.i
Client Sample ID: VSTD005

Compound: Bromoform
CAS Number: 75-25-2







COMPUCHEM a division of Liberty Analytical Corp DATE 3 /13 / 2 INITIAL TIME OF TUNE 0948 SHIFT/S(A) ✓ (B) (C)

GC/MS VOLATILE RUN LOG TIME TUNE EXPIRES 2148 LINKER /METHOD W8260 - 25 ml

COMPUCHEM LOGBOOK 11 ZZZ 4 (5972hp73)

PREVENTIVE MAINTENANCE None

	REJECTED	FILE NAME	REPORTED	DATE	TIME	CLIENT ID#	CASE/SDG#	SAMPLE VOLUME	CHEMIST	COMMENTS(ETC.)/DISPOSITION
1		BF020313 A73	/	3 /13/ 2	0948	BFB	—	2ml	2479	
2		CS020313 A73	/	/ /	1013	VSTD005	—	25ml		
3		WG16749-1A73	/	/ /	1051	VBLKAK	VARIOUS	↓		
4		WG16749-4A73	/	/ /	1126	VAXLCS	↓	↓		FULL A14 D74
5		RQ2204-2DA73	/	/ /	1153	HV-GWT-IP13	RQ2204	7ml		
6		Q2480-10 A73	/	/ /	1219	TRIPBLANK	Q2480	25ml		
7		Q2480-1 A73	/	/ /	1246	MW-1		↓		
8		Q2480-2A73	/	/ /	1313	MW-2		↓		
9	/	Q2480-3A73	DW	/ /	1339	MW-7		5ml		Small 1:5 Run Next
10		Q2480-4A73	/	/ /	1406	MW-8		25ml		
11		Q2480-5A73	/	/ /	1433	MW-11				
12		Q2480-6 A73	/	/ /	1500	MW-12				
13		Q2480-7 A73	/	/ /	1527	MW-13				
14		Q2480-8 A73	/	/ /	1554	MW-8DUP				
15		Q2480-3RA73	/	/ /	1620	MW-7				
16		QE1877-8RA73	/	/ /	1746	MW-10B DL	QE1877	10ml	2323	
17		QE1877-1RA73	/	/ /	1816	MW 12A		1mL		
18		QE1877-10RA73	/	/ /	1847	MW 12B		150ml		
19	/	QE1877-17A73	DW	/ /	1914	MW-17B		10mL		RIN
20	/	QE1877-18A73	DW	/ /	1941	MW-18B		50ml		use 35ml
21	/	QE1877-19A73	DW	/ /	2008	MW-19B		800ml		use 2mL
22				/ /						
23				/ /						
24				/ /						

	Tune	STANDARDS Analytical	Int. Std.
Std. ID #	7008	ME109	
Lot #	52708		52731

SUPERVISOR APPROVAL Ronald W. Hu

DATE 3-13-2002

The presence of the Chemist's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist together with the chemist's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation

2-20-02 dcc

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Instrument ID: 5972HP73 Calibration Date: 03/13/02 Time: 2136

Lab File ID: CS020313B73 Init. Calib. Date(s): 02/22/02 02/22/02

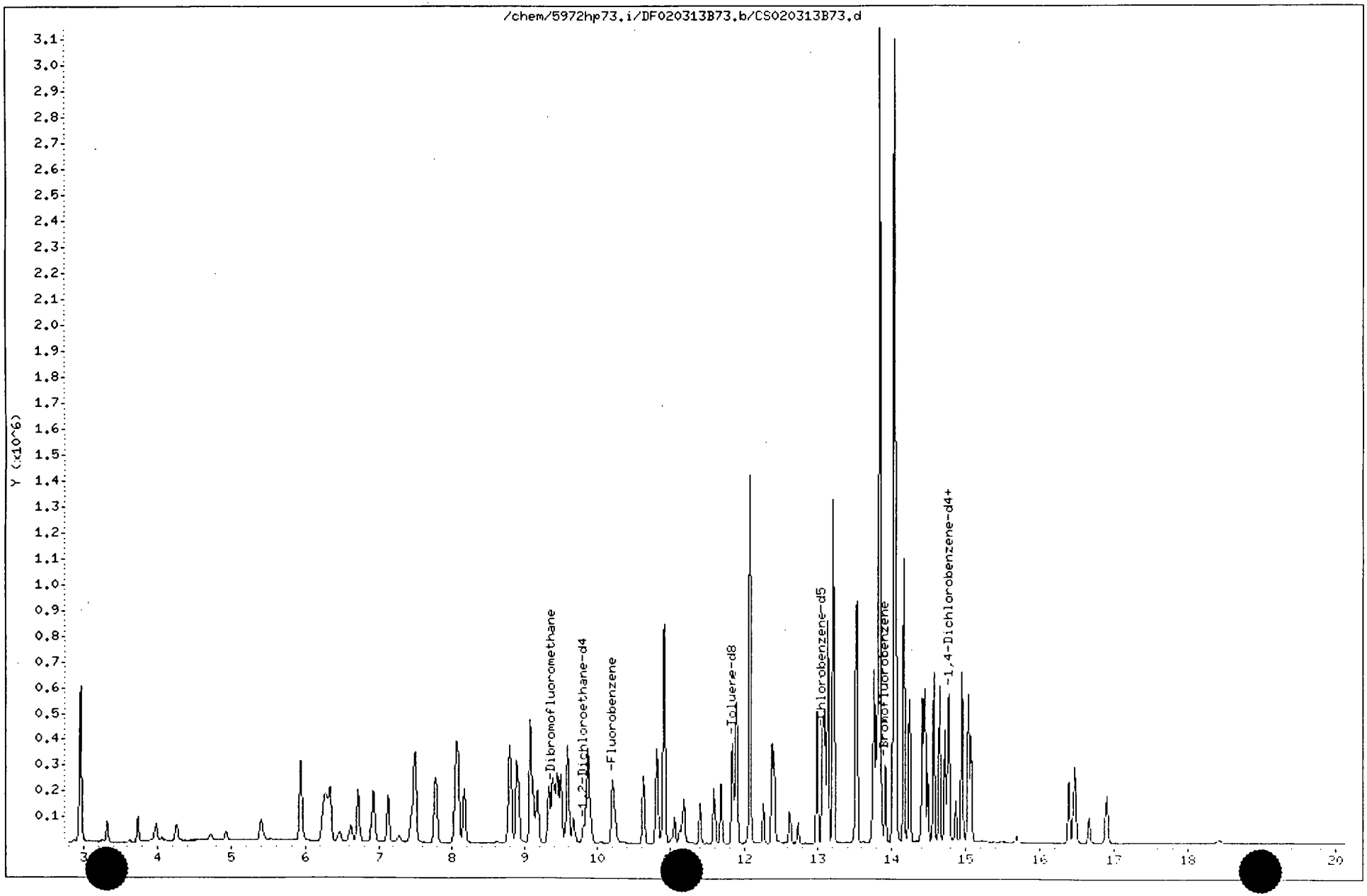
Init. Calib. Times: 2021 2250

GC Column: ZB-624 ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF5 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Chloromethane	0.4490000	0.3771670	0.1	-16.00	90.00	AVRG
Vinyl Chloride	0.3610000	0.3061997	0.001	-15.18	20.00	AVRG
Bromomethane	0.1690000	0.0797457	0.001	-52.81	90.00	AVRG
Chloroethane	0.1690000	0.1446258	0.001	-14.42	90.00	AVRG
1,1-Dichloroethene	0.3360000	0.3384867	0.001	0.74	20.00	AVRG
Carbon disulfide	1.4020000	1.2470223	0.001	-11.05	90.00	AVRG
Acetone	0.0510000	0.0468229	0.001	-8.19	90.00	AVRG
Methylene Chloride	0.3210000	0.3303491	0.001	2.91	90.00	AVRG
trans-1,2-Dichloroethene	0.3540000	0.3743228	0.001	5.74	90.00	AVRG
1,1-Dichloroethane	0.6590000	0.6677251	0.1	1.32	90.00	AVRG
cis-1,2-Dichloroethene	0.3410000	0.3592579	0.001	5.35	90.00	AVRG
2-butanone	0.0640000	0.0679109	0.001	6.11	90.00	AVRG
Chloroform	0.6450000	0.6121644	0.001	-5.09	20.00	AVRG
1,1,1-Trichloroethane	0.6070000	0.5472914	0.001	-9.84	90.00	AVRG
Carbon Tetrachloride	0.5250000	0.4578418	0.001	-12.79	90.00	AVRG
Benzene	1.3710000	1.4246008	0.001	3.91	90.00	AVRG
1,2-Dichloroethane	0.3540000	0.3256502	0.001	-8.01	90.00	AVRG
Trichloroethene	0.3870000	0.3632911	0.001	-6.13	90.00	AVRG
1,2-Dichloropropane	0.2860000	0.3073566	0.001	7.47	20.00	AVRG
Bromodichloromethane	0.4090000	0.3761026	0.001	-8.04	90.00	AVRG
cis-1,3-Dichloropropene	0.4440000	0.4309763	0.001	-2.93	90.00	AVRG
4-Methyl-2-pentanone	0.2110000	0.1937971	0.001	-8.15	90.00	AVRG
Toluene	1.0300000	1.0421439	0.001	1.18	20.00	AVRG
trans-1,3-Dichloropropene	0.4440000	0.4162324	0.001	-6.25	90.00	AVRG
1,1,2-Trichloroethane	0.2150000	0.2262339	0.001	5.22	90.00	AVRG
Tetrachloroethene	0.4120000	0.4403723	0.001	6.89	90.00	AVRG
2-hexanone	0.1420000	0.1345949	0.001	-5.21	90.00	AVRG
Dibromochloromethane	0.3290000	0.2939950	0.001	-10.64	90.00	AVRG
Chlorobenzene	1.0560000	1.0809296	0.3	2.36	90.00	AVRG
Ethylbenzene	0.5870000	0.6127570	0.001	4.39	20.00	AVRG
m,p-Xylene	0.7290000	0.7942063	0.001	8.94	90.00	AVRG
o-Xylene	0.6820000	0.7002360	0.001	2.67	90.00	AVRG
Styrene	1.0830000	1.0677703	0 001	-1.41	90.00	AVRG
Bromoform	0.1830000	0.1668757	0.1	-8.81	90.00	AVRG
1,1,2,2-Tetrachloroethane	0.4940000	0.5321078	0.3	7.71	90.00	AVRG
Xylene (total)	0.6820000	0.7002360	0.001	2.67	90.00	AVRG
Dibromofluoromethane	0.2900000	0.2904442	0.001	0.15	90.00	AVRG
1,2-Dichloroethane-d4	0.2460000	0.2133220	0.001	-13.28	90.00	AVRG
Toluene-d8	1.2540000	1.1223489	0.001	-10.50	90.00	AVRG
Bromofluorobenzene	0.9040000	0.8729547	0.001	-3.43	90.00	AVRG

Data File: /chem/5972hp73.i/DF020313B73.b/CS020313B73.d
Date : 13-MAR-2002 21:36
Client ID: VSTD005
Sample Info:
Purge Volume: 25.0
Column phase: ZB-624

Instrument: 5972hp73.i
Operator: 2323
Column diameter: 0.32



Data File: /chem/5972hp73.i/DF020313B73.b/CS020313B73.d
Report Date: 18-Mar-2002 14:06

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF020313B73.b/CS020313B73.d
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 13-MAR-2002 21:36
Operator : 2323 Inst ID: 5972hp73.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp73.i/DF020313B73.b/W8260-B-25MLv6.m
Meth Date : 18-Mar-2002 14:02 mead Quant Type: ISTD
Cal Date : 22-FEB-2002 22:50 Cal File: CY020222B73.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1	Fluorobenzene	96	10.193	10.193	(1.000)	280918	125.000	
* 2	Chlorobenzene-d5	117	13.067	13.067	(1.000)	215286	125.000	
* 3	1,4-Dichlorobenzene-d4	152	14.760	14.760	(1.000)	111842	125.000	
3 4	Dibromofluoromethane	113	9.376	9.376	(0.920)	81591	125.000	125.2
3 5	1,2-Dichloroethane-d4	65	9.809	9.809	(0.962)	59926	125.000	108.3
3 6	Toluene-d8	98	11.836	11.836	(0.906)	241626	125.000	111.9
3 7	Bromofluorobenzene	95	13.913	13.913	(0.943)	97633	125.000	120.8
8	Dichlorodifluoromethane	85	3.323	3.323	(0.326)	92891	125.000	94.32
9	Chloromethane	50	3.736	3.736	(0.367)	105953	125.000	104.9
10	Vinyl Chloride	62	3.982	3.982	(0.391)	86017	125.000	106.0
11	Bromomethane	94	4.720	4.720	(0.463)	22402	125.000	59.09
12	Chloroethane	64	4.927	4.927	(0.483)	40628	125.000	107.1
13	Trichlorofluoromethane	101	5.409	5.409	(0.531)	112299	125.000	105.8
14	Diethylether	74	5.921	5.921	(0.581)	161469	1250.00	849.6
15	Acrolein	56	6.216	6.216	(0.610)	26791	1250.00	623.1
16	1,1-Dichloroethene	96	6.334	6.334	(0.621)	95087	125.000	125.9

Rev 3/13/2

Data File: /chem/5972hp73.i/DF020313B73.b/CS020313B73.d
Report Date: 18-Mar-2002 14:06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
17 1,1,1-trichloro-2,2,2-trifluo	117	6.246	6.246	(0.613)	55608	125.000	113.6
20 1,1,2-trichloro-1,2,2-trifluo	85	6.285	6.285	(0.617)	61461	125.000	114.1
18 Acetone	43	6.462	6.462	(0.634)	65767	625.000	569.7
19 Iodomethane	142	6.620	6.620	(0.649)	105424	125.000	84.85
21 Carbon disulfide	76	6.718	6.718	(0.659)	350311	125.000	111.2
22 3-Chloropropene	39	6.915	6.915	(0.678)	123193	125.000	99.55
23 Acetonitrile	41	6.915	6.915	(0.678)	193615	125.000	111.1
163 Methyl acetate	43	6.945	6.945	(0.681)	38510	125.000	122.1
24 Methylene Chloride	84	7.122	7.122	(0.699)	92801	125.000	128.5
25 Acrylonitrile	53	7.506	7.506	(0.736)	138675	1250.00	1305
26 tert-butyl alcohol	59	7.279	7.279	(0.714)	35416	1250.00	1115
27 trans-1,2-Dichloroethene	96	7.486	7.486	(0.734)	105154	125.000	132.2
28 Methyl-tert-butyl ether	73	7.447	7.447	(0.731)	152908	125.000	113.5
29 n-hexane	57	7.781	7.781	(0.763)	149765	125.000	128.9
30 1,1-Dichloroethane	63	8.077	8.077	(0.792)	187576	125.000	126.6
32 Vinyl acetate	43	8.086	8.086	(0.793)	389176	250.000	291.0
33 Isopropyl ether	45	8.057	8.057	(0.790)	351254	125.000	121.1
35 2,2-Dichloropropane	77	8.785	8.785	(0.862)	159023	125.000	117.6
34 cis-1,2-Dichloroethene	96	8.805	8.805	(0.864)	100922	125.000	131.7
31 Chloroprene	53	8.165	8.165	(0.801)	168821	125.000	110.7
37 2-butanone	43	8.805	8.805	(0.864)	95387	625.000	659.9
36 Propionitrile	54	8.923	8.923	(0.875)	243061	6250.00	6583
38 Methyl acrylate	55	8.893	8.893	(0.873)	396507	1250.00	1319
39 Methacrylonitrile	41	9.081	9.081	(0.891)	343550	1250.00	1440
40 Bromochloromethane	128	9.110	9.110	(0.894)	39239	125.000	135.2
42 Chloroform	83	9.179	9.179	(0.901)	171968	125.000	118.6
41 Tetrahydrofuran	42	9.149	9.149	(0.898)	48632	500.000	482.6
43 1,1,1-Trichloroethane	97	9.395	9.395	(0.922)	153744	125.000	112.6
45 Pentafluorobenzene	168	9.336	9.336	(0.916)	202944	125.000	121.4
44 Cyclohexane	84	9.445	9.445	(0.927)	133227	125.000	134.4
46 1-chlorobutane	56	9.494	9.494	(0.931)	274998	125.000	127.3
50 Isobutyl alcohol	43	9.671	9.671	(0.949)	76419	6250.00	5663
47 1,1-dichloropropene	75	9.582	9.582	(0.940)	144320	125.000	127.2
48 Carbon Tetrachloride	117	9.592	9.592	(0.941)	128616	125.000	109.1
51 Benzene	78	9.666	9.666	(0.965)	400196	125.000	129.9
49 1,2-Dichloroethane	62	9.907	9.907	(0.972)	91481	125.000	114.9
52 Dietnylaldehyde	41	10.232	10.232	(1.004)	70003	1250.00	1693
53 Trichloroethene	130	10.626	10.626	(1.042)	102055	125.000	117.1
54 Methylcyclohexane	83	10.813	10.813	(1.061)	164751	125.000	133.3
55 1,2-Dichloropropane	63	10.892	10.892	(1.069)	86342	125.000	134.2
56 Dibromomethane	174	11.049	11.049	(1.084)	40982	125.000	133.4
58 Methylmethacrylate	69	10.911	10.911	(1.070)	283005	1250.00	1385
57 1,4-dioxane	88	11.010	11.010	(1.080)	16121	6250.00	6079
60 Bromodichloromethane	83	11.177	11.177	(1.097)	105654	125.000	114.9
[illegible] 2-Chloroethyl vinyl ether	63	11.403	11.403	(1.119)	64304	1250.00	3022
61 cis 1,3-Dichloropropene	75	11.590	11.590	(1.137)	121069	125.000	121.5
62 4-Methyl-2 pentanone	43	11.679	11.679	(0.894)	208609	625.000	573.8

Data File: /chem/5972hp73.i/DF020313B73.b/CS020313B73.d
Report Date: 18-Mar-2002 14:06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
63 Toluene	92	11.895	11.895	(0.910)	224359	125.000	126.5
64 trans-1,3-Dichloropropene	75	12.082	12.082	(0.925)	89609	125.000	117.2
66 Ethylmethacrylate	69	12.073	12.073	(0.924)	668366	1250.00	1342
65 1,1,2-Trichloroethane	97	12.269	12.269	(0.939)	48705	125.000	131.3
67 1,3-Dichloropropane	76	12.417	12.417	(0.950)	87898	125.000	132.8
68 Tetrachloroethene	164	12.388	12.388	(0.948)	94806	125.000	133.6
69 2-hexanone	43	12.407	12.407	(0.950)	144882	625.000	594.0
70 Dibromochloromethane	129	12.624	12.624	(0.966)	63293	125.000	111.9
71 1,2-Dibromoethane	107	12.742	12.742	(0.975)	49176	125.000	124.8
73 1-Chlorohexane	55	12.988	12.988	(0.994)	121996	125.000	126.0
72 Chlorobenzene	112	13.096	13.096	(1.002)	232709	125.000	127.9
74 1,1,1,2-Tetrachloroethane	131	13.145	13.145	(1.006)	75908	125.000	115.9
75 Ethylbenzene	106	13.136	13.136	(1.005)	131918	125.000	130.6
76 m,p-Xylene	106	13.214	13.214	(1.011)	341963	250.000	272.2
77 o-Xylene	106	13.519	13.519	(1.035)	150751	125.000	128.3
78 Styrene	104	13.529	13.529	(1.035)	229876	125.000	123.2
79 Bromoform	173	13.736	13.736	(1.051)	35926	125.000	113.8
81 Isopropyl Benzene	105	13.766	13.766	(1.053)	418032	125.000	122.0
80 cis-1,4-dichloro-2-butene	75	13.834	13.834	(1.059)	694897	5000.00	5359
82 1,1,2,2-Tetrachloroethane	83	14.002	14.002	(0.949)	59512	125.000	134.6
84 Bromobenzene	156	14.061	14.061	(1.076)	94956	125.000	130.4
83 1,2,3-Trichloropropane	110	14.051	14.051	(1.075)	12500	125.000	128.9
85 trans-1,4-dichloro-2-butene	53	14.031	14.031	(1.074)	583692	5000.00	4831
86 n-Propyl Benzene	91	14.051	14.051	(0.952)	649137	125.000	131.8
87 2-Chlorotoluene	126	14.169	14.169	(0.960)	98454	125.000	129.5
89 1,3,5-Trimethyl Benzene	105	14.159	14.159	(0.959)	323831	125.000	122.3
88 4-Chlorotoluene	126	14.238	14.238	(0.965)	95641	125.000	128.8
91 tert-Butyl Benzene	119	14.415	14.415	(0.977)	308279	125.000	120.7
90 Pentachloroethane	167	14.484	14.484	(0.981)	49623	125.000	112.3
92 1,2,4-Trimethyl Benzene	105	14.445	14.445	(0.979)	311676	125.000	119.8
93 sec-Butyl Benzene	105	14.563	14.563	(0.987)	453620	125.000	129.4
94 1,3-Dichlorobenzene	146	14.710	14.710	(0.997)	184027	125.000	131.4
95 p-Isopropyl Toluene	119	14.642	14.642	(0.992)	343982	125.000	121.7
96 1,4-Dichlorobenzene	146	14.779	14.779	(1.001)	179791	125.000	131.9
97 Benzyl Chloride	91	14.858	14.858	(1.007)	102651	125.000	122.8
99 n-Butyl Benzene	91	14.947	14.947	(1.013)	370899	125.000	131.9
98 1,2-Dichlorobenzene	146	15.075	15.075	(1.021)	149109	125.000	132.1
100 1,3-diethylbenzene	119	15.025	15.025	(1.018)	157043	125.000	117.0
101 1,2-Dibromo-3-Chloropropane	75	15.685	15.685	(1.063)	7120	125.000	84.22
102 1,2,4-Trichlorobenzene	180	16.393	16.393	(1.111)	97595	125.000	124.7
103 Hexachlorobutadiene	225	16.472	16.472	(1.116)	65078	125.000	123.6
104 Naphthalene	128	16.669	16.669	(1.129)	95341	125.000	95.76
105 1,2,3-Trichlorobenzene	180	16.905	16.905	(1.145)	78224	125.000	125.3
M 1 - 1,2-Dichloroethene (total	96				206076	250.000	263.9
M 107 Xylene (total	106				492714	125.000	419.2

COMPUCHEM a division of Liberty Analytical Corp DATE 3/13/2002 INITIAL TIME OF TUNE 2119 SHIFT/S(A) ____ (B) ✓ (C) ____

GC/MS VOLATILE RUN LOG TIME TUNE EXPIRES 0919 LINKER /METHOD W8260-B 25mL VL

COMPUCHEM .LOGBOOK 11 ZZZ 4 (5972hp73)

PREVENTIVE MAINTENANCE None

	REJECTED	FILE NAME	REPORTED	DATE	TIME	CLIENT ID#	CASE/SDG#	SAMPLE VOLUME	CHEMIST	COMMENTS(ETC.)/DISPOSITION
1		BF020313B73	/	3/13/2002	2119	BFB	—	2ml	2323	HD:SCD
2		CS020313B73	/	/ /	2136	VSTD005	—	25mL		
3		WG16250-2B73	/	/ /	2203	VBLKBB	Various			
4		WG16250-5B73	/	/ /	2230	VBBLCS				
5	/	F2322-1B73	D1	/ /	2257	CAAF2	F2322	25mL		use 250ml
6		CB020313B73	/	/ /	2326	VIBLKAA	—	25mL		
7		QE1877-11RB73	/	/ /	2352	MW-13A	QE1877	3mL		
8		QE1877-12RB73	/	3/14/2	0019	MW-13B		150ml		
9		WG16179-6B73	/	/ /	0046	MW-13BMS				MEWS
10		WG16179-7B73	/	/ /	0113	MW-13BMSD				
11		QE1877-13RB73	/	/ /	0140	MW-13C		25mL		
12		QE1877-15RB73	/	/ /	0206	MW-14B		40ml		
13	/	QE1877-16RB73	OT	/ /	—	MW-15A		25mL		Archon failure DNot Asg
14	/	QE1877-17RB73		/ /	—	MW-17B				
15	/	QE1877-18RB73		/ /	—	MW-18B		35ml		
16	/	QE1877-19RB73		/ /	—	MW-19B		2mL		
17	/	CC020313B73		/ /	—	VIBLKAA	—	25mL		
18	/	F2322-1DB73		/ /	—	CAAF2	F2322	250ml		
19	/	F2322-1D2B73		/ /	—	CAAF2		10mL		
20				/ /						
21				/ /						
22				/ /						
23				/ /						
24				/ /						3-14-2

STANDARDS

	Tune	Analytical	Int. Std.
Std. ID #	7008	ME109	
Lot #	52708		52731

SUPERVISOR APPROVAL [signature]

DATE 3-14-2

The presence of the Chemist's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist together with the chemist's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation. 2/20/02 dce

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Instrument ID: 5972HP73 Calibration Date: 03/14/02 Time: 1001

Lab File ID: CS020314A73 Init. Calib. Date(s): 02/22/02 02/22/02

Init. Calib. Times: 2021 2250

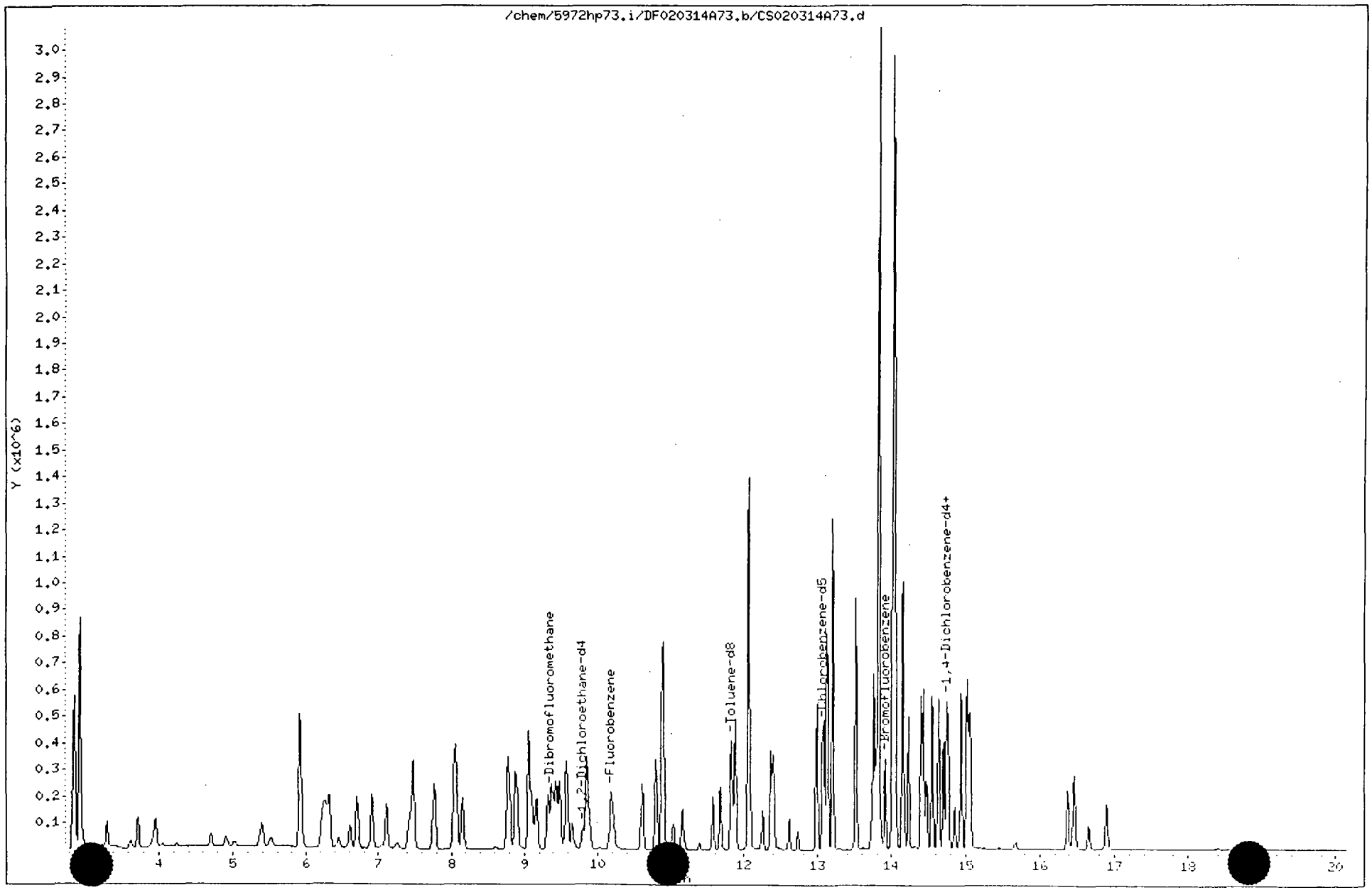
GC Column: ZB-624 ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF5 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Chloromethane	0.4490000	0.5263532	0.1	17.23	90.00	AVRG
Vinyl Chloride	0.3610000	0.4096593	0.001	13.48	20.00	AVRG
Bromomethane	0.1690000	0.1827538	0.001	8.14	90.00	AVRG
Chloroethane	0.1690000	0.1866548	0.001	10.45	90.00	AVRG
1,1-Dichloroethene	0.3360000	0.3639192	0.001	8.31	20.00	AVRG
Carbon disulfide	1.4020000	1.3976090	0.001	-0.31	90.00	AVRG
Acetone	0.0510000	0.0527677	0.001	3.47	90.00	AVRG
Methylene Chloride	0.3210000	0.3589592	0.001	11.82	90.00	AVRG
trans-1,2-Dichloroethene	0.3540000	0.3852855	0.001	8.84	90.00	AVRG
1,1-Dichloroethane	0.6590000	0.7323391	0.1	11.13	90.00	AVRG
cis-1,2-Dichloroethene	0.3410000	0.3786129	0.001	11.03	90.00	AVRG
2-butanone	0.0640000	0.0740985	0.001	15.78	90.00	AVRG
Chloroform	0.6450000	0.6931102	0.001	7.46	20.00	AVRG
1,1,1-Trichloroethane	0.6070000	0.5738929	0.001	-5.45	90.00	AVRG
Carbon Tetrachloride	0.5250000	0.4896064	0.001	-6.74	90.00	AVRG
Benzene	1.3710000	1.5658800	0.001	14.21	90.00	AVRG
1,2-Dichloroethane	0.3540000	0.3449438	0.001	-2.56	90.00	AVRG
Trichloroethene	0.3870000	0.3884419	0.001	0.37	90.00	AVRG
1,2-Dichloropropane	0.2860000	0.3419281	0.001	19.56	20.00	AVRG
Bromodichloromethane	0.4090000	0.4253459	0.001	4.00	90.00	AVRG
cis-1,3-Dichloropropene	0.4440000	0.4581339	0.001	3.18	90.00	AVRG
4-Methyl-2-pentanone	0.2110000	0.1928640	0.001	-8.60	90.00	AVRG
Toluene	1.0300000	0.9978551	0.001	-3.12	20.00	AVRG
trans-1,3-Dichloropropene	0.4440000	0.4046047	0.001	-8.87	90.00	AVRG
1,1,2-Trichloroethane	0.2150000	0.2101523	0.001	-2.25	90.00	AVRG
Tetrachloroethene	0.4120000	0.4188602	0.001	1.66	90.00	AVRG
2-hexanone	0.1420000	0.1310023	0.001	-7.74	90.00	AVRG
Dibromochloromethane	0.3290000	0.2843720	0.001	-13.56	90.00	AVRG
Chlorobenzene	1.0560000	1.0175550	0.3	-3.64	90.00	AVRG
Ethylbenzene	0.5870000	0.5904341	0.001	0.58	20.00	AVRG
m,p-Xylene	0.7290000	0.7471052	0.001	2.48	90.00	AVRG
o-Xylene	0.6820000	0.6827402	0.001	0.11	90.00	AVRG
Styrene	1.0830000	1.0115310	0.001	-6.60	90.00	AVRG
Bromoform	0.1830000	0.1593811	0.1	-12.91	90.00	AVRG
1,1,2,2-Tetrachloroethane	0.4940000	0.5084943	0.3	2.93	90.00	AVRG
Xylene (total)	0.6820000	0.6827402	0.001	0.11	90.00	AVRG
Dibromofluoromethane	0.2900000	0.3600803	0.001	24.16	90.00	AVRG
1,2-Dichloroethane-d4	0.2460000	0.2588289	0.001	5.22	90.00	AVRG
Toluene-d8	1.2540000	1.2298328	0.001	-1.93	90.00	AVRG
Bromofluorobenzene	0.9040000	0.9253883	0.001	2.36	90.00	AVRG

Data File: /chem/5972hp73.i/DF020314A73.b/CS020314A73.d
Date : 14-MAR-2002 10:01
Client ID: VSTD005
Sample Info:
Purge Volume: 25.0
Column phase: ZB-624

Instrument: 5972hp73.i

Operator: 2429
Column diameter: 0.32



Data File: /chem/5972hp73.i/DF020314A73.b/CS020314A73.d
Report Date: 18-Mar-2002 17:26

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF020314A73.b/CS020314A73.d
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 14-MAR-2002 10:01
Operator : 2429 Inst ID: 5972hp73.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp73.i/DF020314A73.b/W8260-B-25MLv6.m
Meth Date : 18-Mar-2002 17:25 hubbard Quant Type: ISTD
Cal Date : 22-FEB-2002 22:50 Cal File: CY020222B73.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 1 Fluorobenzene	96	10.180	10.180	(1.000)	241735	125.000	
* 2 Chlorobenzene-d5	117	13.064	13.064	(1.000)	207007	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.747	14.747	(1.000)	109956	125.000	
$ 4 Dibromofluoromethane	113	9.363	9.363	(0.920)	87044	125.000	155.3
$ 5 1,2-Dichloroethane-d4	65	9.796	9.796	(0.962)	62568	125.000	131.4
$ 6 Toluene-d8	98	11.824	11.824	(0.905)	254584	125.000	122.6
$ 7 Bromofluorobenzene	95	13.910	13.910	(0.943)	101752	125.000	128.0
8 Dichlorodifluoromethane	85	3.310	3.310	(0.325)	100907	125.000	119.1
9 Chloromethane	50	3.723	3.723	(0.366)	127238	125.000	146.4
10 Vinyl Chloride	62	3.960	3.960	(0.389)	99029	125.000	141.8
11 Bromomethane	94	4.708	4.708	(0.462)	44178	125.000	135.4
12 Chloroethane	64	4.914	4.914	(0.483)	45121	125.000	138.2
13 Trichlorofluoromethane	101	5.387	5.387	(0.529)	123523	125.000	135.2
14 Diethylether	74	5.908	5.908	(0.580)	248945	1250.00	1522
15 Acrolein	56	6.204	6.204	(0.609)	31955	1250.00	863.7

Scott 3/18/02

Data File: /chem/5972hp73.i/DF020314A73.b/CS020314A73.d
Report Date: 18-Mar-2002 17:26

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
16 1,1-Dichloroethene	96	6.322	6.322	(0.621)	87972	125.000	135.4
17 1,1,1-trichloro-2,2,2-trifluo	117	6.233	6.233	(0.612)	54712	125.000	129.9
20 1,1,2-trichloro-1,2,2-trifluo	85	6.272	6.272	(0.616)	58948	125.000	127.2
18 Acetone	43	6.450	6.450	(0.634)	63779	625.000	642.0
19 Iodomethane	142	6.607	6.607	(0.649)	134899	125.000	126.2
21 Carbon disulfide	76	6.706	6.706	(0.659)	337851	125.000	124.6
22 3-Chloropropene	39	6.902	6.902	(0.678)	123470	125.000	115.9
23 Acetonitrile	41	6.902	6.902	(0.678)	196003	125.000	130.7
163 Methyl acetate	43	6.932	6.932	(0.681)	35164	125.000	129.5
24 Methylene Chloride	84	7.109	7.109	(0.698)	86773	125.000	139.6
25 Acrylonitrile	53	7.483	7.483	(0.735)	143091	1250.00	1565
26 tert-butyl alcohol	59	7.257	7.257	(0.713)	33716	1250.00	1234
27 trans-1,2-Dichloroethene	96	7.473	7.473	(0.734)	93137	125.000	136.1
28 Methyl-tert-butyl ether	73	7.434	7.434	(0.730)	142775	125.000	123.2
29 n-hexane	57	7.769	7.769	(0.763)	145372	125.000	145.4
30 1,1-Dichloroethane	63	8.064	8.064	(0.792)	177032	125.000	138.8
32 Vinyl acetate	43	8.074	8.074	(0.793)	372094	250.000	323.3
33 Isopropyl ether	45	8.044	8.044	(0.790)	357256	125.000	143.2
35 2,2-Dichloropropane	77	8.773	8.773	(0.862)	145476	125.000	125.0
34 cis-1,2-Dichloroethene	96	8.792	8.792	(0.864)	91524	125.000	138.8
31 Chloroprene	53	8.152	8.152	(0.801)	157427	125.000	120.0
37 2-butanone	43	8.792	8.792	(0.864)	89561	625.000	720.0
36 Propionitrile	54	8.900	8.900	(0.874)	249869	6250.00	7865
38 Methyl acrylate	55	8.881	8.881	(0.872)	366802	1250.00	1418
[illegible] Methacrylonitrile	41	9.068	9.068	(0.891)	287786	1250.00	1402
[illegible] Bromochloromethane	128	9.097	9.097	(0.894)	36332	125.000	145.5
42 Chloroform	83	9.166	9.166	(0.900)	167549	125.000	134.3
41 Tetrahydrofuran	42	9.137	9.137	(0.898)	48682	500.000	561.4
43 1,1,1-Trichloroethane	97	9.383	9.383	(0.922)	138730	125.000	118.1
45 Pentafluorobenzene	168	9.324	9.324	(0.916)	186518	125.000	129.7
44 Cyclohexane	84	9.432	9.432	(0.927)	126275	125.000	148.0
46 1-chlorobutane	56	9.481	9.481	(0.931)	260839	125.000	140.3
50 Isobutyl alcohol	43	9.658	9.658	(0.949)	77425	6250.00	6668
47 1,1-dichloropropene	75	9.570	9.570	(0.940)	129901	125.000	133.0
48 Carbon Tetrachloride	117	9.580	9.580	(0.941)	118355	125.000	116.6
51 Benzene	78	9.855	9.855	(0.968)	378528	125.000	142.7
49 1,2-Dichloroethane	62	9.895	9.895	(0.972)	83385	125.000	121.7
52 Crotonaldehyde	41	10.219	10.219	(1.004)	68834	1250.00	1934
53 Trichloroethene	130	10.613	10.613	(1.043)	93900	125.000	125.3
54 Methylcyclohexane	83	10.800	10.800	(1.061)	154576	125.000	145.4
55 1,2-Dichloropropane	63	10.879	10.879	(1.069)	82656	125.000	149.3(M)
56 Dibromomethane	174	11.036	11.036	(1.084)	37939	125.000	143.5
58 Methylmethacrylate	69	10.898	10.898	(1.071)	261147	1250.00	1485
57 1,4-dioxane	88	10.997	10.997	(1.080)	16211	6250.00	7103
59 Bromodichloromethane	83	11.164	11.164	(1.097)	102821	125.000	129.9
60 2-chloroethyl vinyl ether	63	11.391	11.391	(1.119)	10546	1250.00	576.0
61 cis-1,3-Dichloropropene	75	11.578	11.578	(1.137)	110747	125.000	129.1

Data File: /chem/5972hp73.i/DF020314A73.b/CS020314A73.d
Report Date: 18-Mar-2002 17:26

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
62 4-Methyl-2-pentanone	43	11.676	11.676	(0.894)	199621	625.000	571.0
63 Toluene	92	11.883	11.883	(0.910)	206563	125.000	121.1
64 trans-1,3-Dichloropropene	75	12.080	12.080	(0.925)	83756	125.000	114.0
66 Ethylmethacrylate	69	12.070	12.070	(0.924)	613661	1250.00	1281
65 1,1,2-Trichloroethane	97	12.257	12.257	(0.938)	43503	125.000	122.0
67 1,3-Dichloropropane	76	12.404	12.404	(0.950)	81320	125.000	127.8
68 Tetrachloroethene	164	12.375	12.375	(0.947)	86707	125.000	127.0
69 2-hexanone	43	12.404	12.404	(0.950)	135592	625.000	578.1
70 Dibromochloromethane	129	12.621	12.621	(0.966)	58867	125.000	108.2
71 1,2-Dibromoethane	107	12.729	12.729	(0.974)	45123	125.000	119.1
73 1-Chlorohexane	55	12.985	12.985	(0.994)	114345	125.000	122.8
72 Chlorobenzene	112	13.084	13.084	(1.002)	210641	125.000	120.4
74 1,1,1,2-Tetrachloroethane	131	13.133	13.133	(1.005)	71910	125.000	114.2
75 Ethylbenzene	106	13.123	13.123	(1.005)	122224	125.000	125.8
76 m,p-Xylene	106	13.202	13.202	(1.011)	309312	250.000	256.0
77 o-Xylene	106	13.507	13.507	(1.034)	141332	125.000	125.1
78 Styrene	104	13.517	13.517	(1.035)	209394	125.000	116.7
79 Bromoform	173	13.723	13.723	(1.050)	32993	125.000	108.7(M)
81 Isopropyl Benzene	105	13.753	13.753	(1.053)	392569	125.000	119.2
80 cis-1,4-dichloro-2-butene	75	13.822	13.822	(1.058)	695604	5000.00	5579
82 1,1,2,2-Tetrachloroethane	83	13.999	13.999	(0.949)	55912	125.000	128.6
84 Bromobenzene	156	14.048	14.048	(1.075)	90135	125.000	128.7
83 1,2,3-Trichloropropane	110	14.048	14.048	(1.075)	11723	125.000	125.7
85 trans-1,4-dichloro-2-butene	53	14.019	14.019	(1.073)	576185	5000.00	4959
[illegible] n-Propyl Benzene	91	14.048	14.048	(0.953)	624310	125.000	128.9
87 2-Chlorotoluene	126	14.156	14.156	(0.960)	90745	125.000	121.4
89 1,3,5-Trimethyl Benzene	105	14.146	14.146	(0.959)	304875	125.000	117.2
88 4-Chlorotoluene	126	14.225	14.225	(0.965)	90327	125.000	123.7
91 tert-Butyl Benzene	119	14.402	14.402	(0.977)	284733	125.000	113.4
90 Pentachloroethane	167	14.481	14.481	(0.982)	49955	125.000	115.0(H)
92 1,2,4-Trimethyl Benzene	105	14.432	14.432	(0.979)	301170	125.000	117.7
93 sec-Butyl Benzene	105	14.550	14.550	(0.987)	424023	125.000	123.0
94 1,3-Dichlorobenzene	146	14.708	14.708	(0.997)	170522	125.000	123.8
95 p-Isopropyl Toluene	119	14.639	14.639	(0.993)	326477	125.000	117.5
96 1,4-Dichlorobenzene	146	14.767	14.767	(1.001)	166571	125.000	124.3
97 Benzyl Chloride	91	14.855	14.855	(1.007)	99421	125.000	121.0
99 n-Butyl Benzene	91	14.934	14.934	(1.013)	349266	125.000	126.3
98 1,2-Dichlorobenzene	146	15.062	15.062	(1.021)	138128	125.000	124.4
100 1,2-diethylbenzene	119	15.022	15.022	(1.019)	151212	125.000	114.6
101 1,2-Dibromo-3-Chloropropane	75	15.682	15.682	(1.063)	6807	125.000	81.90
102 1,2,4-Trichlorobenzene	180	16.381	16.381	(1.111)	89304	125.000	116.1
103 Hexachlorobutadiene	225	16.459	16.459	(1.116)	61378	125.000	118.5
104 Naphthalene	128	16.656	16.656	(1.129)	86059	125.000	87.92
105 1,2,3-Trichlorobenzene	180	16.893	16.893	(1.145)	71153	125.000	115.9
M 106 1,2-Dichloroethene (total)	96				184661	250.000	274.8
M 107 Xylene (total)	106				450644	125.000	398.8

SAH 3/18/02

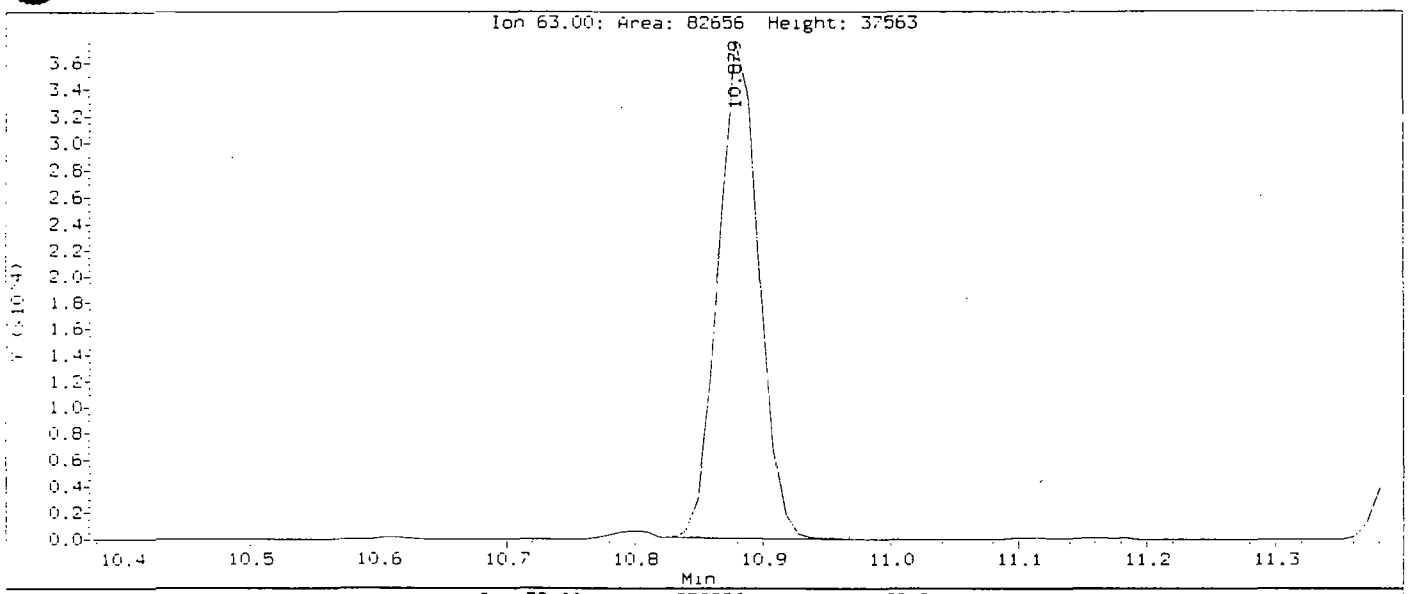
Data File: /chem/5972hp73.i/DF020314A73.b/CS020314A73.d
Report Date: 18-Mar-2002 17:26

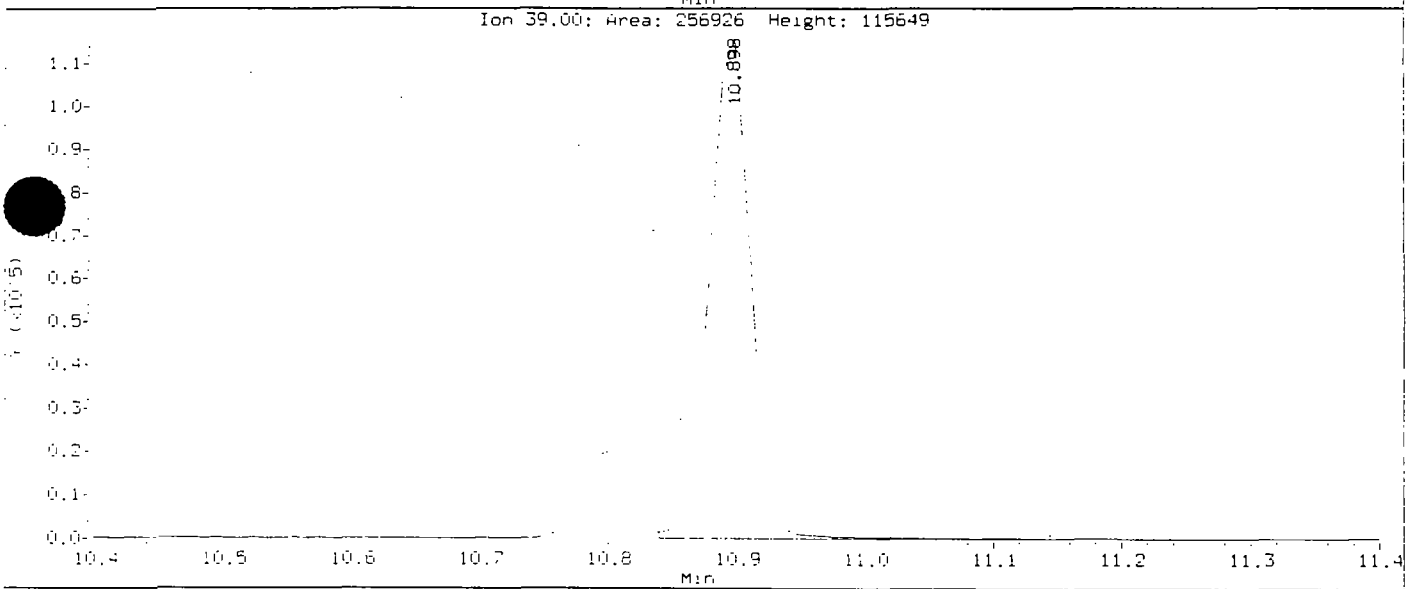
Flag Legend

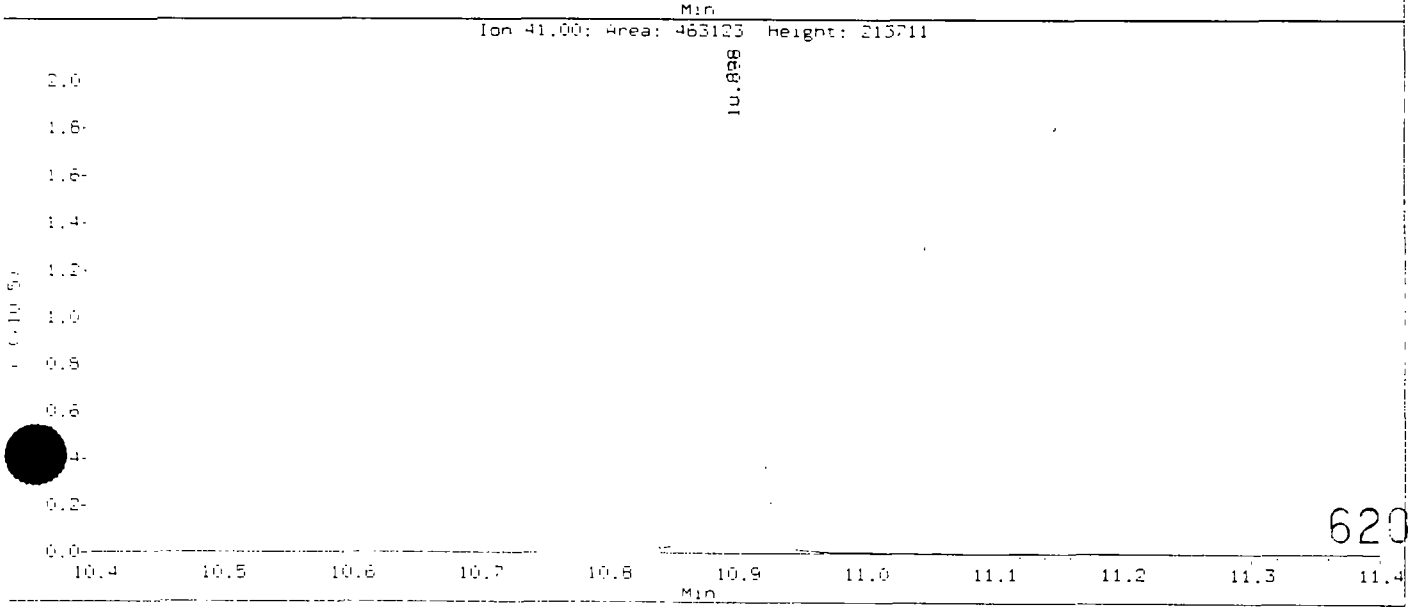
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /chem/5972hp73.1/DF020314A73.b/CS020314A73.d
Injection Date: 14-MAR-2002 10:01
Instrument: 5972hp73.1
Client Sample ID: VSTD005

und: 1.2-Dichloropropane
umber: 78-87-5

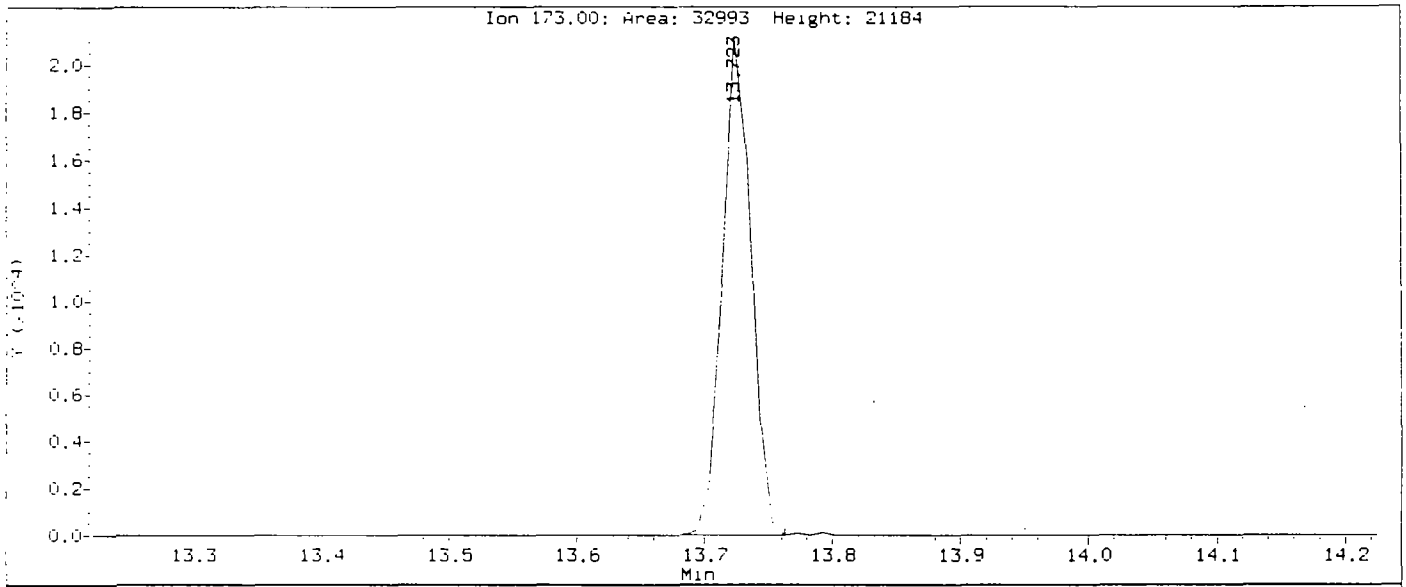


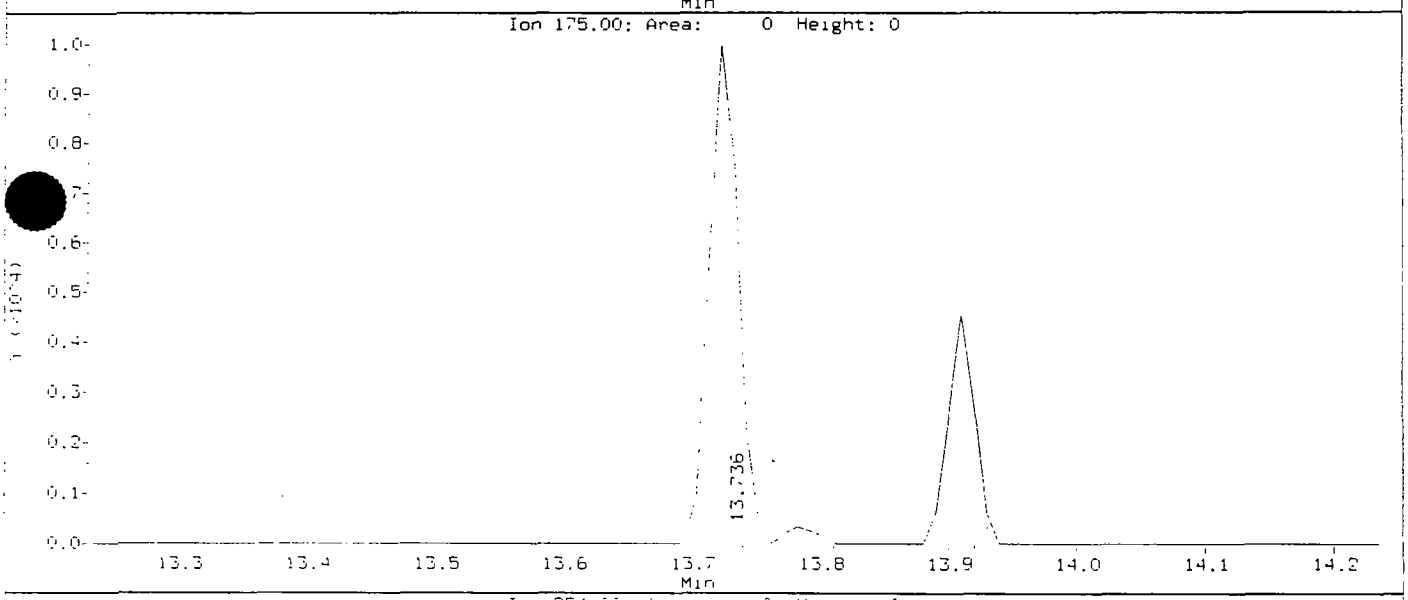


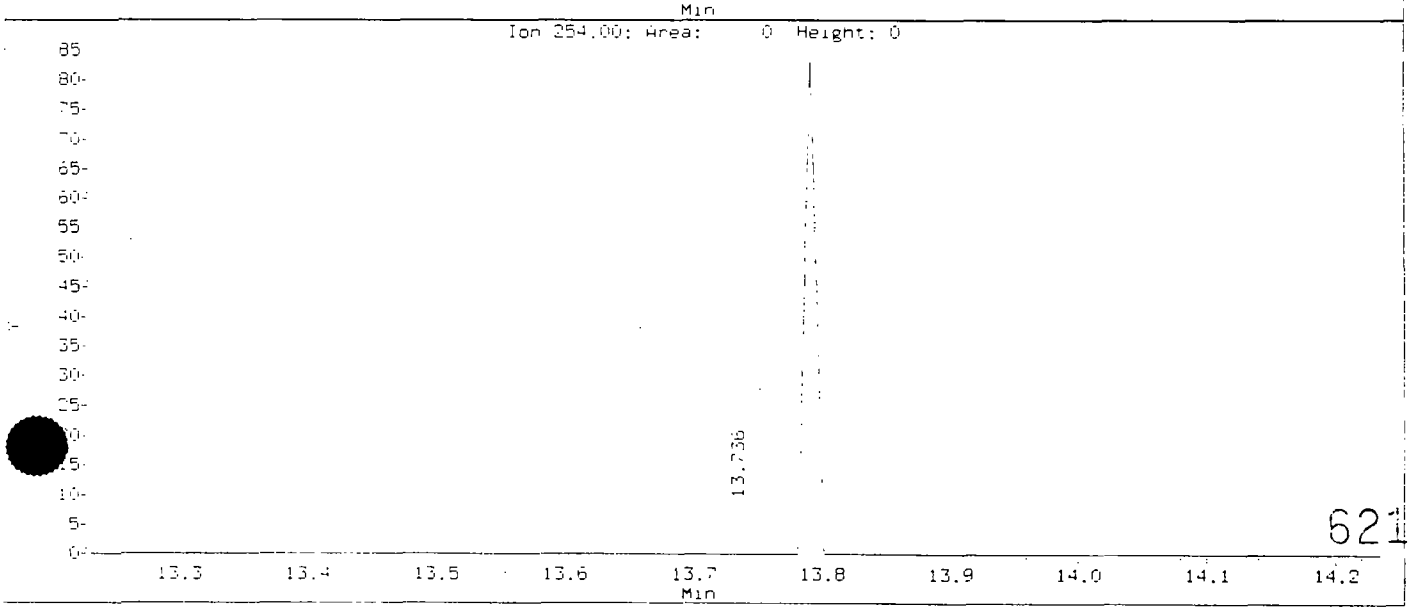


Data File: /chem/5972hp73.i/DF020314A73.b/CS020314A73.d
Injection Date: 14-MAR-2002 10:01
Instrument: 5972hp73.i
Client Sample ID: VSTD005

[illegible]und: Bromoform
[illegible]umber: 75-25-2

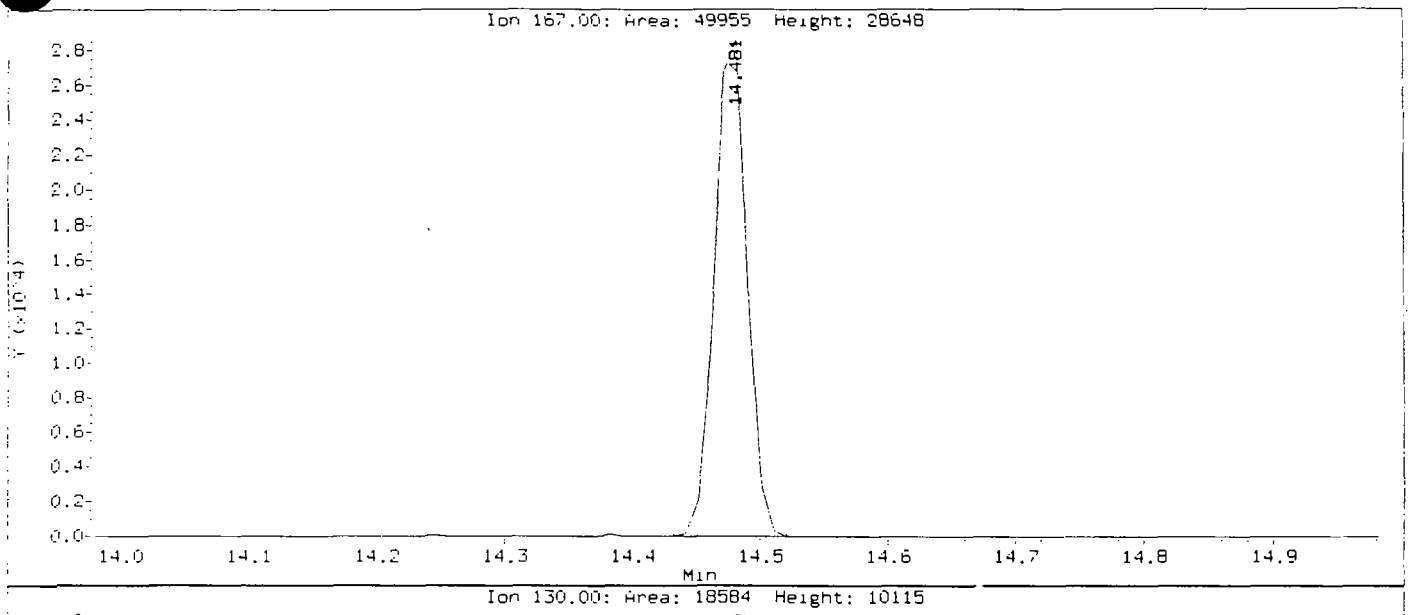


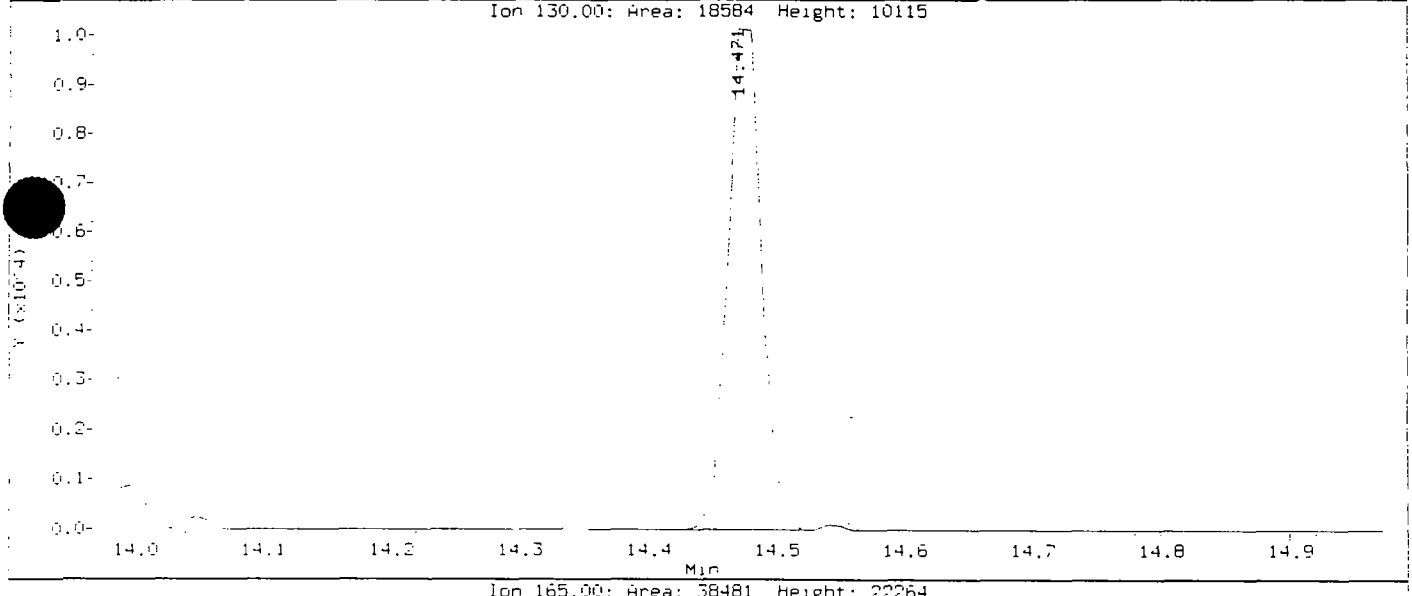


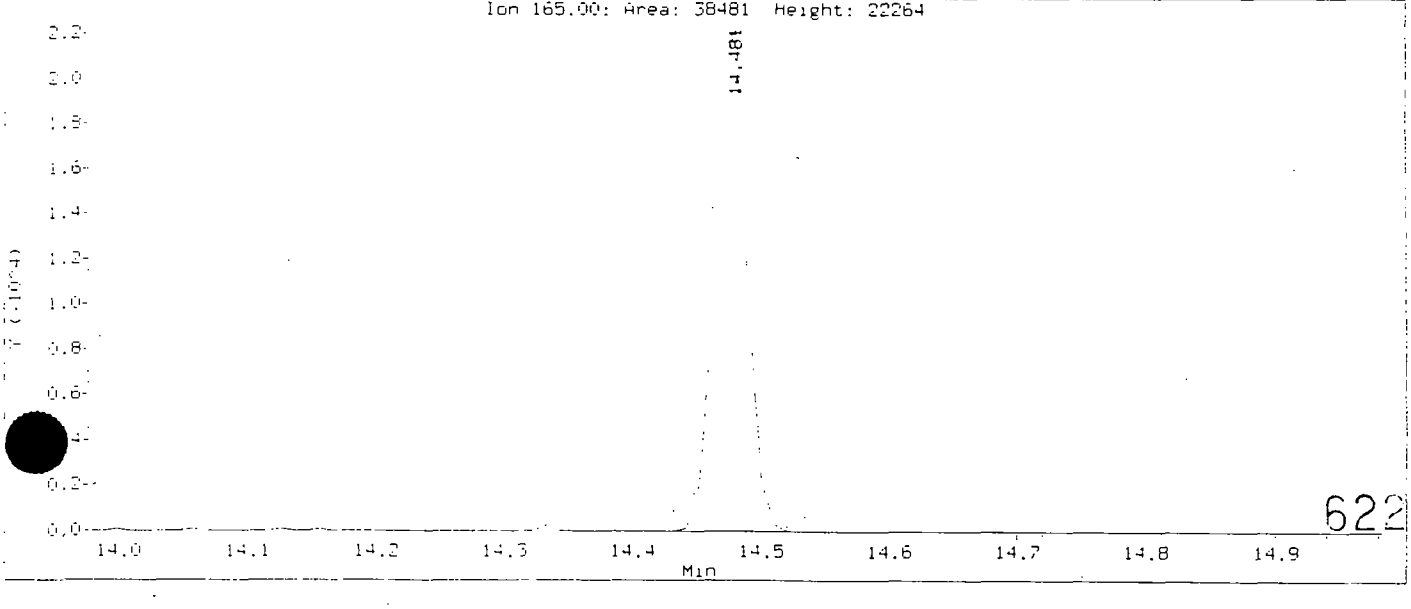


Data File: /chem/5972hp73.1/DF020314A73.b/CS020314A73.d
Injection Date: 14-MAR-2002 10:01
Instrument: 5972hp73.1
Client Sample ID: VSTD005

Compound: Pentachloroethane
CAS Number: 76-01-7







COMPUCHEM a division of Liberty Analytical Corp DATE 3 / 14 / 2 INITIAL TIME OF TUNE 0931 SHIFT/S(A) ✓ (B) ____ (C) ____

GC/MS VOLATILE RUN LOG TIME TUNE EXPIRES 2131 LINKER /METHOD W8260-25ml

COMPUCHEM LOGBOOK 11 ZZZ 4 (5972hp73)

PREVENTIVE MAINTENANCE None

	REJECTED	FILE NAME	REPORTED	DATE	TIME	CLIENT ID#	CASE/SDG#	SAMPLE VOLUME	CHEMIST	COMMENTS(ETC.)/DISPOSITION
1		BF020314 A73	/	3/14/2	0931	BFB	—	2ml	2429	LCD-SCD
2		CS020314 A73	/	/ /	1001	VST0005	—	25ml		
3		WG16179-1 A73	/	/ /	1034	VBLKZK	VARIOUS			
4		WG16179-4 A73	/	/ /	1109	VZKLCS	↓			1001C/5ml
5		QE1877-16R A73	/	/ /	1136	MW-15A	QE1877			
6		QE1877-17R A73	/	/ /	1203	MW-17B				
7		QE1877-18R A73	/	/ /	1230	MW-18B		35 ml	MH 3-14-2002	
8		QE1877-19R A73	/	/ /	1256	MW-19B	↓	2mL		
9	/	F2322-1D A73	DW PCO	/ /	1323	CAAF2	F2322	250ml		
10		F2322-1D2 A73	/	/ /	1350	CAAF2	↓	10ml		
11		Q2485-3 A73	/	/ /	1417	TB031202	Q2485	25ml		
12		Q2485-2 A73	/	/ /	1443	FB031202				
13		Q2485-1 A73	/	/ /	1510	FT141-MW1				
14		Q2485-4 A73	/	/ /	1537	FT424-MW1				
15	/	Q2485-5 A73	DW	/ /	1604	FT137-MW1		5ml		1:5 Smell Run Next
16		Q2485-5R A73	/	/ /	1642	FT137-MW1	↓	25ml		
17				/ /						
18				/ /						
19				/ /						
20				/ /						
21				/ /						
22				/ /						
23				/ /						
24				/ /						Jmo 3-14-2

STANDARDS

	Tune	Analytical	Int. Std.
Std. ID #	7008	ME109	
Lot #	52773		52731

SUPERVISOR APPROVAL 2331 [signature]

DATE 3-14-2

The presence of the Chemist's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist together with the chemist's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Instrument ID: 5972HP71 Calibration Date: 03/13/02 Time: 0945

Lab File ID: CT020313A71 Init. Calib. Date(s): 03/12/02 03/12/02

Init. Calib. Times: 0849 1036

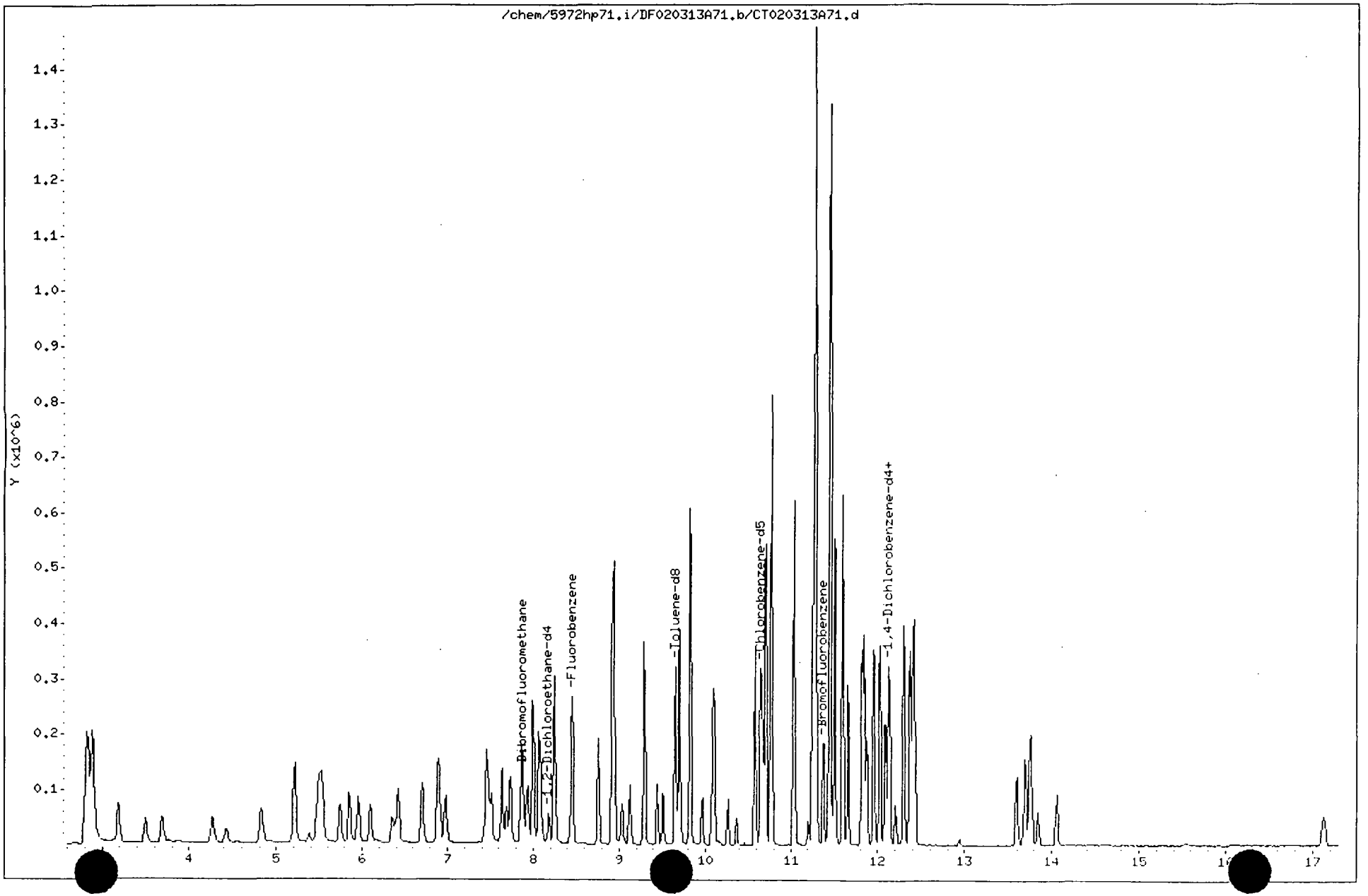
GC Column: SPB-624 ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF5 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Chloromethane	0.4150000	0.3518227	0.1	-15.22	90.00	AVRG
Vinyl Chloride	0.3890000	0.3316219	0.001	-14.75	20.00	AVRG
Bromomethane	0.2880000	0.2561262	0.001	-11.07	90.00	AVRG
Chloroethane	0.1740000	0.1467517	0.001	-15.66	90.00	AVRG
1,1-Dichloroethene	0.1860000	0.1715826	0.001	-7.75	20.00	AVRG
Carbon disulfide	0.8220000	0.7559508	0.001	-8.04	90.00	AVRG
Acetone	0.0220000	0.0151100	0.001	-31.32	90.00	AVRG
Methylene Chloride	0.2130000	0.1716814	0.001	-19.40	90.00	AVRG
trans-1,2-Dichloroethene	0.2460000	0.2161299	0.001	-12.14	90.00	AVRG
1,1-Dichloroethane	0.3850000	0.3428539	0.1	-10.95	90.00	AVRG
cis-1,2-Dichloroethene	0.2540000	0.2119099	0.001	-16.57	90.00	AVRG
2-butanone	0.0310000	0.0219579	0.001	-29.17	90.00	AVRG
loroform	0.4590000	0.3873568	0.001	-15.61	20.00	AVRG
1,1-Trichloroethane	0.3760000	0.3455272	0.001	-8.10	90.00	AVRG
Carbon Tetrachloride	0.3480000	0.3318492	0.001	-4.64	90.00	AVRG
Benzene	1.0350000	1.0016060	0.001	-3.23	90.00	AVRG
1,2-Dichloroethane	0.1980000	0.1776952	0.001	-10.25	90.00	AVRG
Trichloroethene	0.3520000	0.3024080	0.001	-14.09	90.00	AVRG
1,2-Dichloropropane	0.2890000	0.2416131	0.001	-16.40	20.00	AVRG
Bromodichloromethane	0.3720000	0.2909784	0.001	-21.78	90.00	AVRG
cis-1,3-Dichloropropene	0.3590000	0.2862049	0.001	-20.28	90.00	AVRG
4-Methyl-2-pentanone	0.1130000	0.0935298	0.001	-17.23	90.00	AVRG
Toluene	0.8800000	0.9213691	0.001	4.70	20.00	AVRG
trans-1,3-Dichloropropene	0.3010000	0.2912518	0.001	-3.24	90.00	AVRG
1,1,2-Trichloroethane	0.1890000	0.1738867	0.001	-8.00	90.00	AVRG
Tetrachloroethene	0.3220000	0.3663809	0.001	13.78	90.00	AVRG
2-hexanone	0.0720000	0.0621430	0.001	-13.69	90.00	AVRG
Dibromochloromethane	0.2780000	0.2649345	0.001	-4.70	90.00	AVRG
Chlorobenzene	0.9520000	0.9382364	0.3	-1.44	90.00	AVRG
Ethylbenzene	0.5700000	0.5486906	0.001	-3.74	20.00	AVRG
m,p-Xylene	0.8270000	0.7819053	0.001	-5.45	90.00	AVRG
o-Xylene	0.6440000	0.6160457	0.001	-4.34	90.00	AVRG
Styrene	0.8450000	0.8984894	0.001	6.33	90.00	AVRG
Bromoform	0.1360000	0.1189984	0.1	-12.50	90.00	AVRG
1,1,2,2-Tetrachloroethane	0.4840000	0.4288665	0.3	-11.39	90.00	AVRG
Xylene (total)	0.6440000	0.6160457	0.001	-4.34	90.00	AVRG
Dibromofluoromethane	0.3130000	0.2951193	0.001	-5.71	90.00	AVRG
1,2-Dichloroethane-d4	0.1520000	0.1413803	0.001	-6.99	90.00	AVRG
Toluene-d8	1.0740000	1.2779149	0.001	18.99	90.00	AVRG
omofluorobenzene	0.8900000	0.9538469	0.001	7.17	90.00	AVRG

Data File: /chem/5972hp71.i/DF020313A71.b/CT020313A71.d
Date : 13-MAR-2002 09:45
Client ID: VSTD005
Sample Info:
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp71.i

Operator: 2423
Column diameter: 0.32



Data File: /chem/5972hp71.i/DF020313A71.b/CT020313A71.d
Report Date: 14-Mar-2002 14:19

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp71.i/DF020313A71.b/CT020313A71.d
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 13-MAR-2002 09:45
Operator : 2423 Inst ID: 5972hp71.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp71.i/DF020313A71.b/W8260-B-25MLv6.m
Meth Date : 14-Mar-2002 14:19 hubbard Quant Type: ISTD
Cal Date : 12-MAR-2002 10:36 Cal File: CX020312A71.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	8.454	8.454	(1.000)	202369	125.000	
* 2 Chlorobenzene-d5	117	10.649	10.649	(1.000)	140212	125.000	
* 3 1,4-Dichlorobenzene-d4	152	12.115	12.115	(1.000)	64871	125.000	
$ 4 Dibromofluoromethane	113	7.884	7.884	(0.932)	59723	125.000	117.7
$ 5 1,2-Dichloroethane-d4	65	8.179	8.179	(0.967)	28611	125.000	116.5
$ 6 Toluene-d8	98	9.655	9.655	(0.907)	179179	125.000	148.7
$ 7 Bromofluorobenzene	95	11.367	11.367	(0.938)	61877	125.000	133.9
8 Dichlorodifluoromethane	85	3.180	3.180	(0.376)	94915	125.000	112.5
9 Chloromethane	50	3.495	3.495	(0.413)	71198	125.000	105.9
10 Vinyl Chloride	62	3.682	3.682	(0.436)	67110	125.000	106.7
11 Bromomethane	94	4.263	4.263	(0.504)	51832	125.000	111.1
12 Chloroethane	64	4.420	4.420	(0.523)	29698	125.000	105.6
13 Trichlorofluoromethane	101	4.824	4.824	(0.571)	79186	125.000	111.4
14 Diethylether	74	5.207	5.207	(0.616)	69433	1250.00	903.2
15 Acrolein	56	5.384	5.384	(0.637)	17827	1250.00	918.8

sat 3/14/02

Data File: /chem/5972hp71.i/DF020313A71.b/CT020313A71.d
Report Date: 14-Mar-2002 14:19

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
16 1,1-Dichloroethene	96	5.532	5.532	(0.654)	34723	125.000	115.4
17 1,1,1-trichloro-2,2,2-trifluo	117	5.483	5.483	(0.648)	31024	125.000	123.5
20 1,1,2-trichloro-1,2,2-trifluo	85	5.512	5.512	(0.652)	28090	125.000	121.6
18 Acetone	43	5.562	5.562	(0.658)	15289	625.000	416.9
19 Iodomethane	142	5.748	5.748	(0.680)	96638	125.000	115.5
21 Carbon disulfide	76	5.847	5.847	(0.692)	152981	125.000	114.9
22 3-Chloropropene	39	5.955	5.955	(0.704)	38533	125.000	115.4
23 Acetonitrile	41	5.955	5.955	(0.704)	62731	125.000	116.0
163 Methyl acetate	43	5.945	5.945	(0.703)	9008	125.000	83.85
24 Methylene Chloride	84	6.093	6.093	(0.721)	34743	125.000	100.9
25 Acrylonitrile	53	6.349	6.349	(0.751)	42493	1250.00	949.0
26 tert-butyl alcohol	59	6.172	6.172	(0.730)	6821	1250.00	780.6
27 trans-1,2-Dichloroethene	96	6.427	6.427	(0.760)	43738	125.000	109.8
28 Methyl-tert-butyl ether	73	6.398	6.398	(0.757)	42773	125.000	95.22
29 n-hexane	57	6.703	6.703	(0.793)	57643	125.000	123.8
30 1,1-Dichloroethane	63	6.880	6.880	(0.814)	69383	125.000	111.2
32 Vinyl acetate	43	6.890	6.890	(0.815)	112631	250.000	215.4
33 Isopropyl ether	45	6.900	6.900	(0.816)	98699	125.000	95.69
35 2,2-Dichloropropane	77	7.461	7.461	(0.882)	58239	125.000	112.1
34 cis-1,2-Dichloroethene	96	7.461	7.461	(0.882)	42884	125.000	104.5
31 Chloroprene	53	6.978	6.978	(0.825)	53426	125.000	114.3
37 2-butanone	43	7.431	7.431	(0.879)	22218	625.000	443.7
36 Propionitrile	54	7.490	7.490	(0.886)	69704	6250.00	4553
38 Methyl acrylate	55	7.520	7.520	(0.889)	100485	1250.00	846.6
39 Methacrylonitrile	41	7.638	7.638	(0.903)	72744	1250.00	918.8
40 Bromochloromethane	128	7.687	7.687	(0.909)	18286	125.000	108.1
42 Chloroform	83	7.736	7.736	(0.915)	78389	125.000	105.6
41 Tetrahydrofuran	42	7.736	7.736	(0.915)	10917	500.000	290.6
43 1,1,1-Trichloroethane	97	7.933	7.933	(0.938)	69924	125.000	114.8
45 Pentafluorobenzene	168	7.864	7.864	(0.930)	99289	125.000	118.0
44 Cyclohexane	84	8.002	8.002	(0.946)	49123	125.000	120.3
46 1-chlorobutane	56	7.992	7.992	(0.945)	160790	125.000	124.7
50 Isobutyl alcohol	43	8.061	8.061	(0.953)	20553	6250.00	4342
47 1,1-dichloropropene	75	8.061	8.061	(0.953)	61649	125.000	119.5
48 Carbon Tetrachloride	117	8.090	8.090	(0.957)	67156	125.000	119.2
51 Benzene	78	8.248	8.248	(0.976)	202694	125.000	121.0
49 1,2-Dichloroethane	62	8.248	8.248	(0.976)	35960	125.000	112.1
52 Crotonaldehyde	41	8.435	8.435	(0.998)	21160	1250.00	1125
53 Trichloroethene	130	8.760	8.760	(1.036)	61198	125.000	107.4
54 Methylcyclohexane	83	8.927	8.927	(1.056)	90188	125.000	122.7
55 1,2-Dichloropropane	63	8.927	8.927	(1.056)	48895	125.000	104.5
56 Dibromomethane	174	9.035	9.035	(1.069)	21357	125.000	101.3
58 Methylmethacrylate	69	8.937	8.937	(1.057)	122643	1250.00	901.0
57 1,4-dioxane	88	9.015	9.015	(1.066)	7086	6250.00	4719
59 Bromodichloromethane	83	9.124	9.124	(1.079)	58885	125.000	97.87
60 2-chloroethyl vinyl ether	63	9.291	9.291	(1.099)	131188	1250.00	939.5
61 cis-1,3-Dichloropropene	75	9.448	9.448	(1.118)	57919	125.000	99.68

Data File: /chem/5972hp71.i/DF020313A71.b/CT020313A71.d
Report Date: 14-Mar-2002 14:19

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
62 4-Methyl-2-pentanone	43	9.507	9.507	(0.893)	65570	625.000	517.6
63 Toluene	92	9.704	9.704	(0.911)	129187	125.000	130.8
64 trans-1,3-Dichloropropene	75	9.822	9.822	(0.922)	40837	125.000	120.8(H)
66 Ethylmethacrylate	69	9.822	9.822	(0.922)	237248	1250.00	1096
65 1,1,2-Trichloroethane	97	9.970	9.970	(0.936)	24381	125.000	115.0
67 1,3-Dichloropropane	76	10.088	10.088	(0.947)	41039	125.000	120.0
68 Tetrachloroethene	164	10.108	10.108	(0.949)	51371	125.000	142.0
69 2-hexanone	43	10.078	10.078	(0.946)	43566	625.000	537.3
70 Dibromochloromethane	129	10.265	10.265	(0.964)	37147	125.000	119.3
71 1,2-Dibromoethane	107	10.363	10.363	(0.973)	26569	125.000	116.4
73 1-Chlorohexane	55	10.580	10.580	(0.994)	61641	125.000	148.6
72 Chlorobenzene	112	10.668	10.668	(1.002)	131552	125.000	123.2
74 1,1,1,2-Tetrachloroethane	131	10.708	10.708	(1.006)	42875	125.000	125.8
75 Ethylbenzene	106	10.708	10.708	(1.006)	76933	125.000	120.4
76 m,p-Xylene	106	10.767	10.767	(1.011)	219265	250.000	236.3
77 o-Xylene	106	11.033	11.033	(1.036)	86377	125.000	119.5
78 Styrene	104	11.042	11.042	(1.037)	125979	125.000	132.8
79 Bromoform	173	11.200	11.200	(1.052)	16685	125.000	109.3
81 Isopropyl Benzene	105	11.249	11.249	(1.056)	231202	125.000	138.7
80 cis-1,4-dichloro-2-butene	75	11.279	11.279	(1.059)	307231	5000.00	4793
82 1,1,2,2-Tetrachloroethane	83	11.416	11.416	(0.942)	27821	125.000	110.8
84 Bromobenzene	156	11.505	11.505	(1.080)	47933	125.000	126.1
83 1,2,3-Trichloropropane	110	11.475	11.475	(1.078)	5738	125.000	113.4
85 trans-1,4-dichloro-2-butene	53	11.446	11.446	(1.075)	207928	5000.00	4879
86 n-Propyl Benzene	91	11.505	11.505	(0.950)	294129	125.000	136.0
87 2-Chlorotoluene	126	11.593	11.593	(0.957)	56650	125.000	130.4
89 1,3,5-Trimethyl Benzene	105	11.593	11.593	(0.957)	173202	125.000	133.8
88 4-Chlorotoluene	126	11.652	11.652	(0.962)	55195	125.000	131.5
91 tert-Butyl Benzene	119	11.820	11.820	(0.976)	181746	125.000	143.9
90 Pentachloroethane	167	11.869	11.869	(0.980)	29580	125.000	125.4
92 1,2,4-Trimethyl Benzene	105	11.839	11.839	(0.977)	167938	125.000	128.3
93 sec-Butyl Benzene	105	11.948	11.948	(0.986)	256028	125.000	140.6
94 1,3-Dichlorobenzene	146	12.085	12.085	(0.998)	94358	125.000	126.1
95 p-Isopropyl Toluene	119	12.026	12.026	(0.993)	199918	125.000	140.8
96 1,4-Dichlorobenzene	146	12.135	12.135	(1.002)	92994	125.000	123.8
97 Benzyl Chloride	91	12.204	12.204	(1.007)	42958	125.000	120.3
99 n-Butyl Benzene	91	12.292	12.292	(1.015)	210883	125.000	144.5
98 1,2-Dichlorobenzene	146	12.400	12.400	(1.024)	72250	125.000	117.5
100 1,2-diethylbenzene	119	12.371	12.371	(1.021)	93915	125.000	135.0
101 1,2-Dibromo-3-Chloropropane	75	12.942	12.942	(1.068)	2622	125.000	103.3
102 1,2,4-Trichlorobenzene	180	13.601	13.601	(1.123)	44644	125.000	125.2
103 Hexachlorobutadiene	225	13.699	13.699	(1.131)	35719	125.000	155.3
104 Naphthalene	128	13.837	13.837	(1.142)	53794	125.000	113.4
105 1,2,3-Trichlorobenzene	180	14.053	14.053	(1.160)	34600	125.000	123.4
M 106 1,2-Dichloroethene (total)	96				86622	250.000	214.2
M 107 Xylene (total)	106				305642	125.000	422.7

SCH 3/14/02

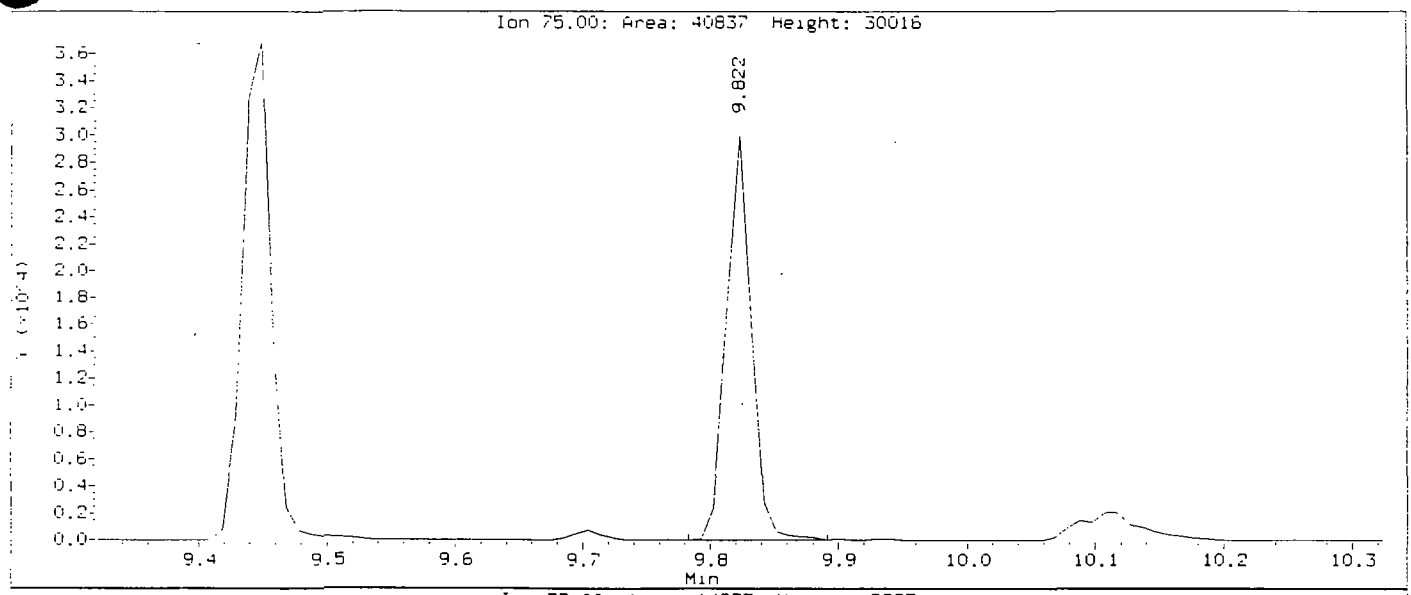
Data File: /chem/5972hp71.i/DF020313A71.b/CT020313A71.d
Report Date: 14-Mar-2002 14:19

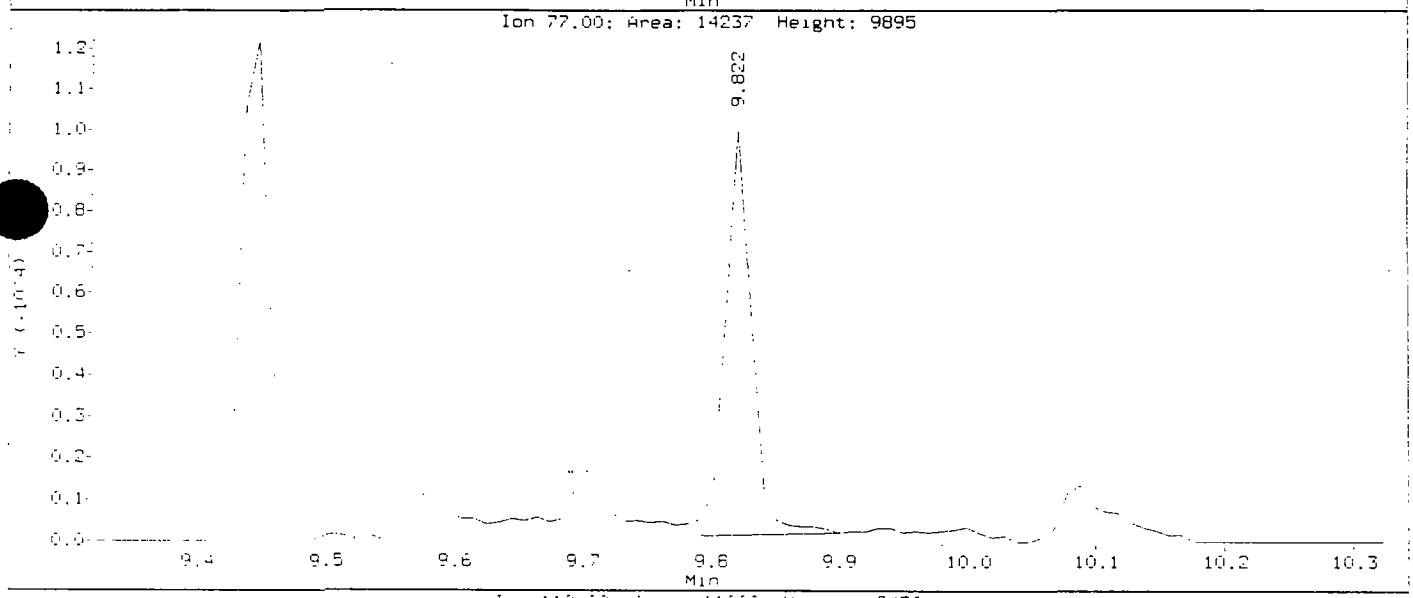
Flag Legend

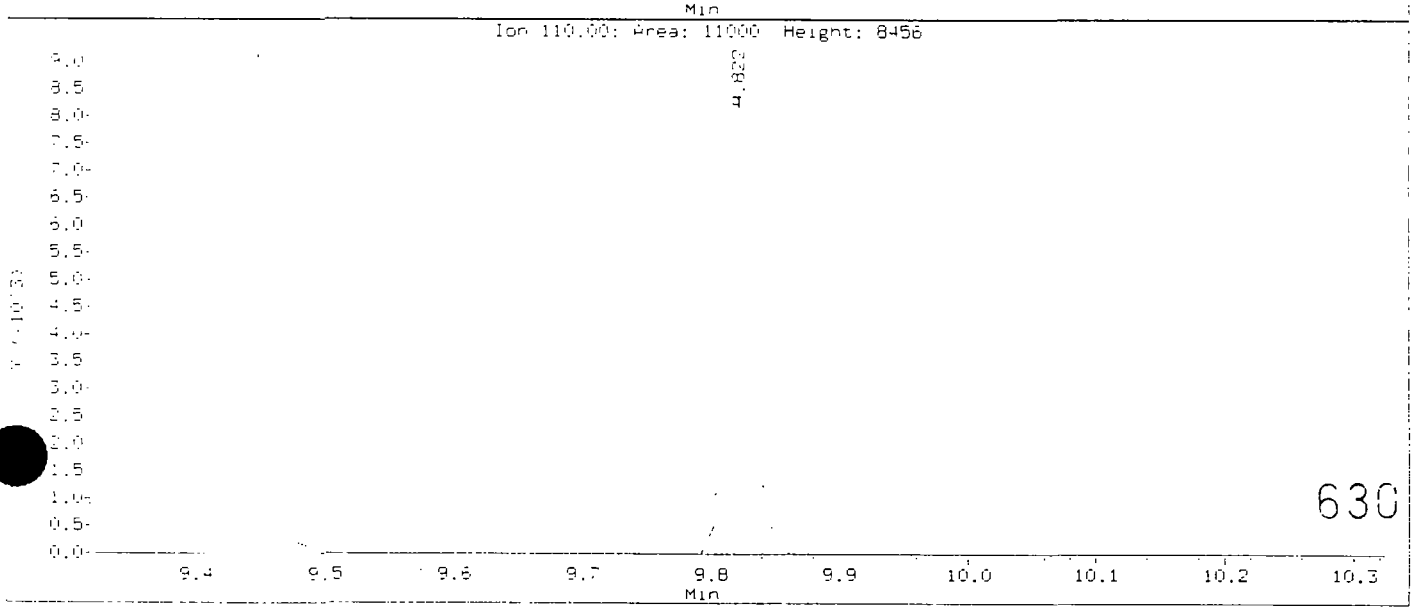
H - Operator selected an alternate compound hit.

Data File: /chem/5972hp71.i/DF020313A71.b/CT020313A71.d
Injection Date: 13-MAR-2002 09:45
Instrument: 5972hp71.i
Client Sample ID: VSTD005

pound: trans-1,3-Dichloropropene
Number: 10061-02-6







630

COMPUCHEM a division of Liberty Analytical Corp DATE 3 / 13 / 02 INITIAL TIME OF TUNE 829 SHIFT/S(A) / (B) (C)

GC/MS VOLATILE RUN LOG TIME TUNE EXPIRES 2029 LINKER /METHOD W8260 B 25ml

COMPUCHEM .LOGBOOK 11 WWW 5 (5972hp71)

PREVENTIVE MAINTENANCE none

	REJECTED	FILE NAME	REPORTED	DATE	TIME	CLIENT ID#	CASE/SDG#	AMOUNT INJECTED	CHEMIST	COMMENTS(ETC.)/DISPOSITION
1		BFC20313A71	/	3 / 13 / 02	829	BFB	—	2ul	22/23	SCD=LCD
2	/	CSC20313A71	US	/ /	904	VSTD005	—	25ml		
3		CTC20313A71	/	/ /	945	VSTD005	—			
4	/	WB16203-1A71	CS	/ /	1019	VBLK ZT	Various			
5	/	WB16203-1RA71	CS	/ /	1055	VBLKZT				
6		WB16203-1R2A71	/	/ /	1133	VBLKZT				
7		WB16203-4A71	/	/ /	1212	VZTLCS				ME109
8		SC21666-8RA71	/	/ /	1238	EP-2	SC21666			
9	/	SC21666-7DA71	DW	/ /	1304	TC-33		2ml		toluene @ 55
10		CBC20313A71	/	/ /	1341	VIBLKAM	—	25ml		
11		SC21666-7D2A71	/	/ /	1418	TC-33	SC21666	1ml		
12	/	SC21666-6DA71	DW	/ /	1444	TC-32		40ul		toluene @ 54
13		CCC20313A71	/	/ /	1524	VIBLKAN	—	25ml		
14		SC21666-6D2A71	/	/ /	1550	TC-32	SC21666	20ul		
15		WB16203-6A71	/	/ /	1617	IC-7MS		25ml		
16		WB16203-7A71	/	/ /	1643	IC-7MSD				
17	/	QE1877-8A71	QW	/ /	1708	MW-10B	QE1877	20ul		mp xylene 67
18	/	QE1877-9A71	QW	/ /	1734	MW-12A		250ul		
19	/	QE1877-10A71	CS	/ /	1801	MW-12B		150ul		
20	/	QE1877-11A71	QW	/ /	1827	MW-13A		1.5ml		
21	/	QE1877-12A71	CS	/ /	1853	MW-13B		150ul		
22	/	QE1877-13A71	QW	/ /	1919	MW-13C		3ml		RIN
23	/	QE1877-15A71	QW	/ /	1945	MW-14B		80ul		use 40ul
24	/	QE1877-16A71	QW	/ /	2011	MW-15A		1ml		RIN

	Tune	STANDARDS Analytical	Int. Std.	Column Type
Std. ID #	7008	ME109		
Lot #	52708		52731	

SUPERVISOR APPROVAL [signature]

DATE 3-13-2002

The presence of the Chemist's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist together with the chemist's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation

11.26.01 dce

4. Raw QC Data

   a. BFB Data

   b. Blank Data

   c. Laboratory Control Sample Data

   d. Matrix Spike Data

   e. Matrix Spike Duplicate Data

a. BFB Data

For each 12 hour period, per instrument utilized, include:

- Bar Graph spectrum and Tabulated Relative Abundances
- Mass listing
- Reconstructed ion chromatogram

Data File: /chem/5972hp73.i/DF020222B73.b/BF020222B73.d

Date : 22-FEB-2002 19:37

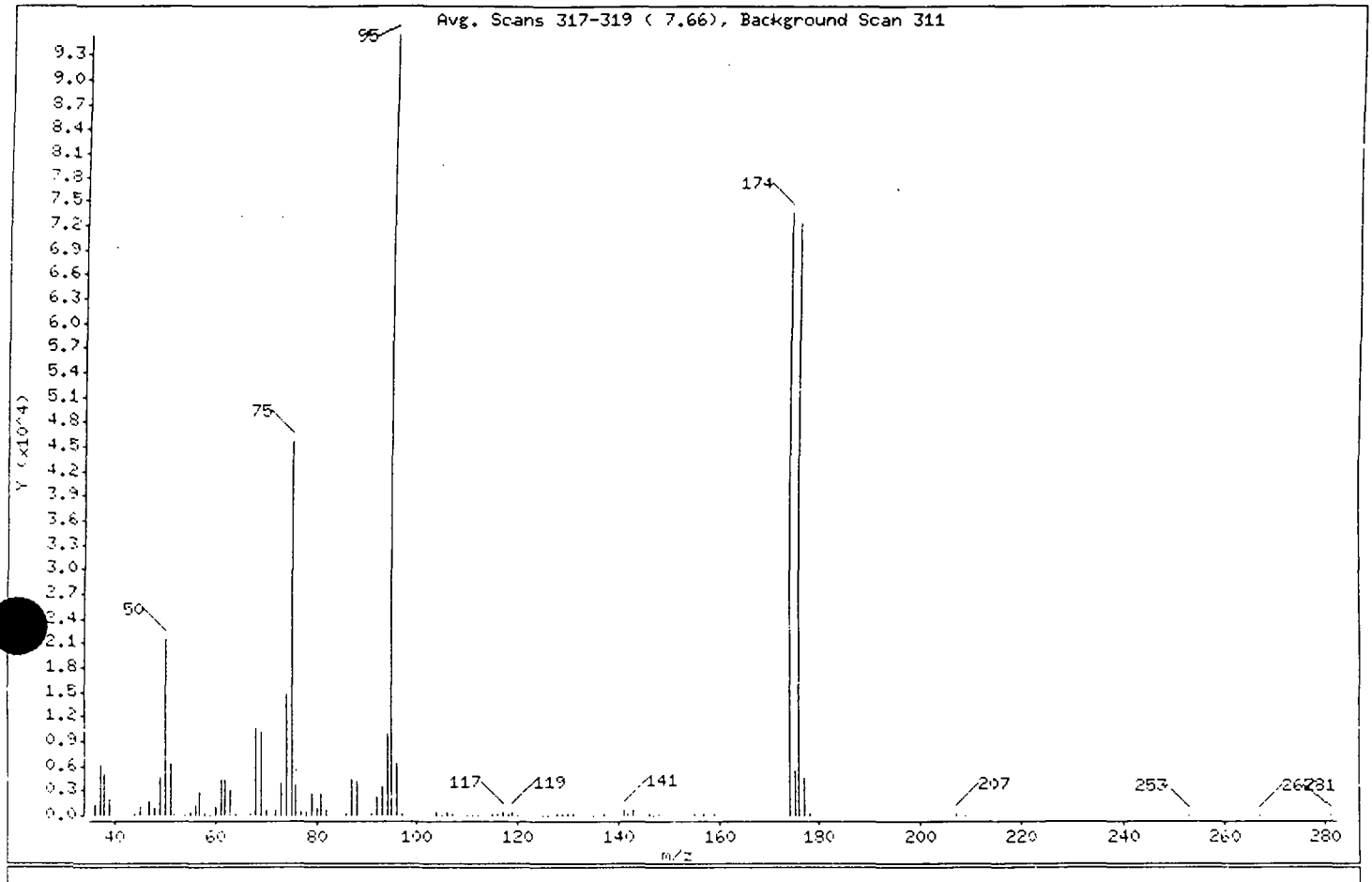
Client ID: BFB | Instrument: 5972hp73.i

Sample Info:

Volume Injected (uL): 2.0 | Operator: 2323

Column phase: ZB-624 | Column diameter: 0.32

1 bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.65
75	30.00 - 60.00% of mass 95	47.86
96	5.00 - 9.00% of mass 95	6.67
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	77.17
175	5.00 - 9.00% of mass 174	5.81 (7.53)
176	95.00 - 101.00% of mass 174	75.85 (98.29)
177	5.00 - 9.00% of mass 176	4.92 (6.49)

Data File: /chem/5972hp73.i/DF020222B73.b/BF020222B73.d

Date : 22-FEB-2002 19:37

Client ID: BFB | Instrument: 5972hp73.i

Sample Info:

Volume Injected (uL): 2.0 | Operator: 2323

Column phase: ZB-624 | Column diameter: 0.32

Data File: BF020222B73.d

Spectrum: Avg. Scans 317-319 (7.66), Background Scan 311

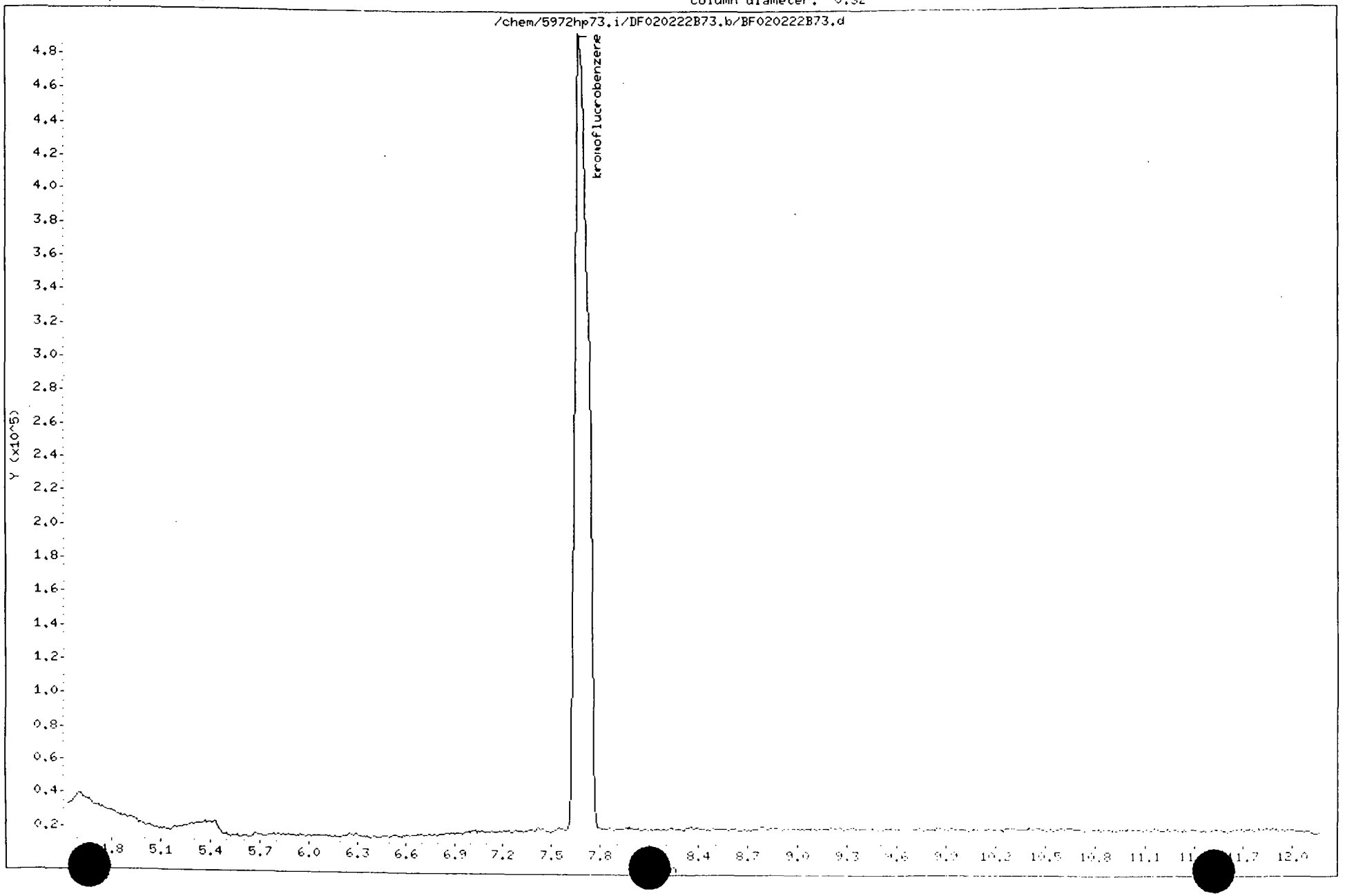
Location of Maximum: 95.00

Number of points: 102

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1312	66.00	75	96.00	6354	139.00	34
37.00	6092	67.00	111	97.00	276	141.00	641
38.00	5027	68.00	10460	103.00	9	142.00	112
39.00	1881	69.00	10088	104.00	365	143.00	623
40.00	99	70.00	745	105.00	40	146.00	144
44.00	315	72.00	640	106.00	362	147.00	37
45.00	1017	73.00	3899	107.00	173	148.00	216
46.00	95	74.00	14738	110.00	37	149.00	19
47.00	1748	75.00	45584	111.00	14	150.00	89
48.00	774	76.00	3805	112.00	42	153.00	36
49.00	4548	77.00	497	113.00	53	155.00	195
50.00	21568	78.00	376	115.00	192	157.00	154
51.00	6267	79.00	2544	116.00	239	159.00	110
52.00	303	80.00	810	117.00	485	161.00	50
53.00	37	81.00	2579	118.00	322	174.00	73504
54.00	41	82.00	597	119.00	488	175.00	5533
55.00	350	83.00	33	120.00	34	176.00	72240
56.00	1417	85.00	23	123.00	39	177.00	4690
57.00	2774	86.00	189	125.00	35	178.00	177
58.00	167	87.00	4426	126.00	84	207.00	136
59.00	17	88.00	4168	128.00	291	209.00	13
60.00	1039	91.00	300	129.00	187	253.00	5
61.00	4362	92.00	2284	130.00	286	267.00	13
62.00	4298	93.00	3607	131.00	148	281.00	14
63.00	2998	94.00	9767	135.00	29		
64.00	305	95.00	95248	137.00	195		

Data File: /chem/5972hp73.i/DF020222B73.b/BF020222B73.d
Date : 22-FEB-2002 19:37
Client ID: BFB
Sample Info:
Volume Injected (uL): 2.0
Column phase: ZB-624

Instrument: 5972hp73.i
Operator: 2323
Column diameter: 0.32



Data File: /chem/5972hp73.i/DF020307A73.b/BF020307A73.d

Date : 07-MAR-2002 07:56

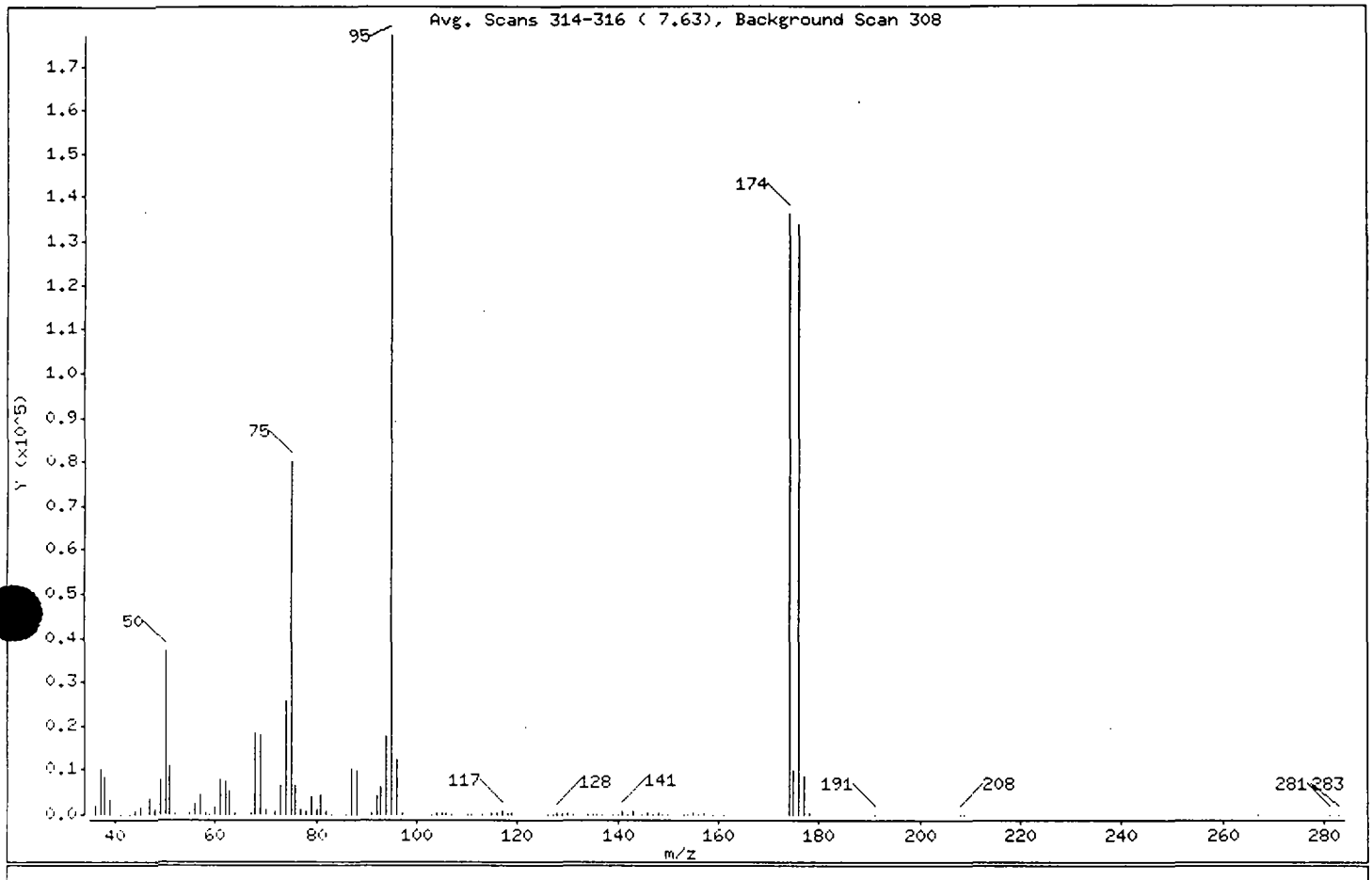
Client ID: BFB | Instrument: 5972hp73.i

Sample Info:

Volume Injected (uL): 2.0 | Operator: 2429

Column phase: ZB-624 | Column diameter: 0.32

1 bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.84
75	30.00 - 60.00% of mass 95	45.20
96	5.00 - 9.00% of mass 95	6.87
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	77.09
175	5.00 - 9.00% of mass 174	5.51 (7.14)
176	95.00 - 101.00% of mass 174	75.56 (98.01)
177	5.00 - 9.00% of mass 176	4.94 (6.53)

Data File: /chem/5972hp73.i/DF020307A73.b/BF020307A73.d

Date : 07-MAR-2002 07:56

Client ID: BFB | Instrument: 5972hp73.i

Sample Info:

Volume Injected (uL): 2.0 | Operator: 2429

Column phase: ZB-624 | Column diameter: 0.32

Data File: BF020307A73.d

Spectrum: Avg. Scans 314-316 (7.63), Background Scan 308

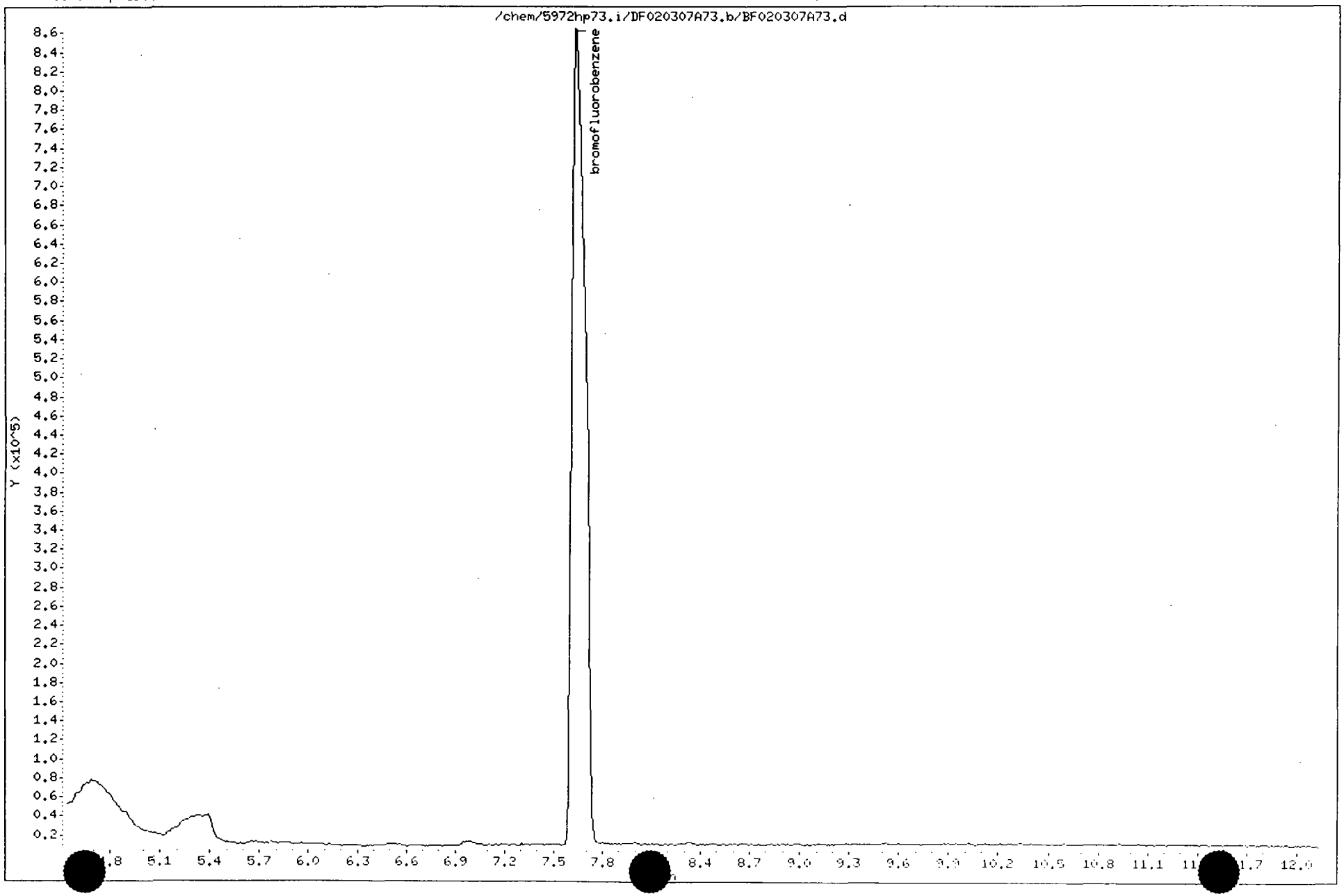
Location of Maximum: 95.00

Number of points: 106

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2218	67.00	428	104.00	598	145.00	36
37.00	9978	68.00	18328	105.00	270	146.00	231
38.00	8679	69.00	17904	106.00	571	147.00	75
39.00	3323	70.00	1378	107.00	73	148.00	333
40.00	124	72.00	889	110.00	35	149.00	182
41.00	68	73.00	6643	111.00	38	150.00	132
43.00	69	74.00	25544	113.00	74	153.00	90
44.00	892	75.00	79904	115.00	239	154.00	75
45.00	1680	76.00	6507	116.00	464	155.00	342
46.00	115	77.00	1188	117.00	787	156.00	50
47.00	3635	78.00	898	118.00	504	157.00	271
48.00	1241	79.00	4139	119.00	562	159.00	86
49.00	7689	80.00	1283	126.00	80	161.00	159
50.00	36840	81.00	4308	127.00	35	163.00	37
51.00	11075	82.00	905	128.00	577	174.00	136256
52.00	450	83.00	77	129.00	232	175.00	9734
55.00	516	86.00	174	130.00	502	176.00	133568
56.00	2506	87.00	10267	131.00	157	177.00	8729
57.00	4568	88.00	9582	134.00	43	178.00	239
58.00	223	91.00	524	135.00	176	191.00	31
59.00	132	92.00	4024	136.00	38	208.00	25
60.00	1548	93.00	6200	137.00	193	209.00	16
61.00	7533	94.00	17664	139.00	54	267.00	77
62.00	7272	95.00	176768	140.00	80	281.00	86
63.00	5238	96.00	12148	141.00	972	283.00	74
64.00	486	97.00	373	142.00	144		
65.00	34	103.00	37	143.00	966		

Data File: /chem/5972hp73.i/DF020307A73.b/BF020307A73.d
Date : 07-MAR-2002 07:56
Client ID: BFB
Sample Info:
Volume Injected (uL): 2.0
Column phase: ZB-624

Instrument: 5972hp73.i
Operator: 2429
Column diameter: 0.32



Data File: /chem/5972hp73.i/DF020307B73.b/BF020307B73.d

Date : 07-MAR-2002 19:49

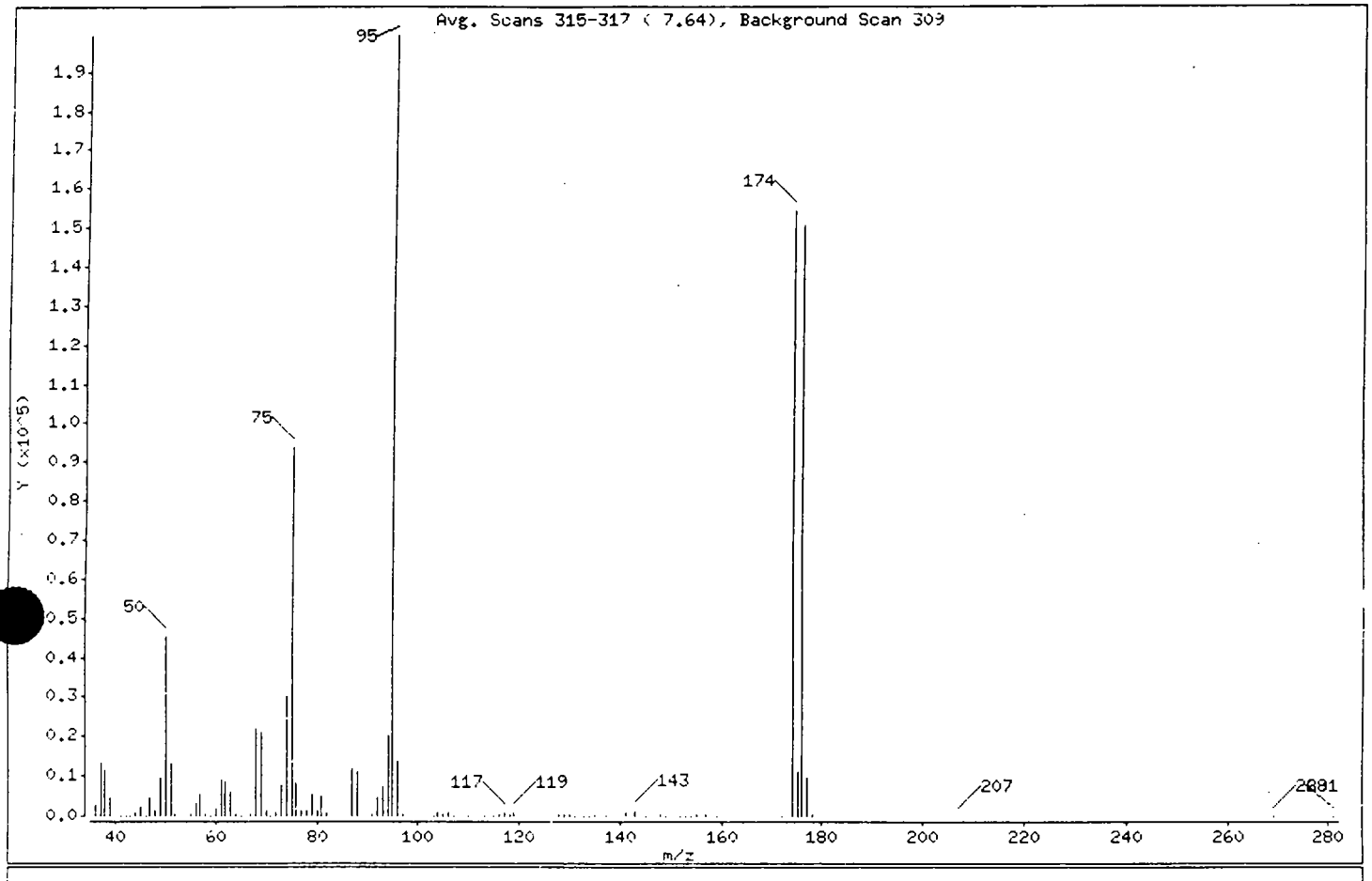
Client ID: BFB | Instrument: 5972hp73.i

Sample Info:

Volume Injected (uL): 2.0 | Operator: 2323

Column phase: ZB-624 | Column diameter: 0.32

1 bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.72
75	30.00 - 60.00% of mass 95	47.06
96	5.00 - 9.00% of mass 95	6.86
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	77.42
175	5.00 - 9.00% of mass 174	5.62 (7.26)
176	95.00 - 101.00% of mass 174	75.61 (97.66)
177	5.00 - 9.00% of mass 176	4.88 (6.45)

Data File: /chem/5972hp73.i/DF020307B73.b/BF020307B73.d

Date : 07-MAR-2002 19:49

Client ID: BFB

Instrument: 5972hp73.i

Sample Info:

Volume Injected (uL): 2.0

Operator: 2323

Column phase: ZB-624

Column diameter: 0.32

Data File: BF020307B73.d

Spectrum: Avg. Scans 315-317 (7.64), Background Scan 309

Location of Maximum: 95.00

Number of points: 103

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2722	64.00	514	95.00	199040	142.00	162
37.00	13338	65.00	97	96.00	13647	143.00	1163
38.00	11261	67.00	414	97.00	479	145.00	49
39.00	4362	68.00	22048	103.00	149	146.00	220
40.00	132	69.00	21184	104.00	705	147.00	162
41.00	97	70.00	1495	105.00	254	148.00	376
42.00	46	71.00	75	106.00	692	149.00	151
43.00	5	72.00	1101	107.00	177	150.00	176
44.00	992	73.00	8002	110.00	37	152.00	107
45.00	2363	74.00	30064	111.00	129	153.00	141
46.00	53	75.00	93672	113.00	87	154.00	78
47.00	4350	76.00	8017	115.00	218	155.00	359
48.00	1519	77.00	1447	116.00	509	157.00	296
49.00	9507	78.00	1152	117.00	930	159.00	158
50.00	45216	79.00	5273	118.00	575	161.00	165
51.00	13337	80.00	1445	119.00	812	172.00	34
52.00	678	81.00	5243	128.00	585	174.00	154112
55.00	656	82.00	1087	129.00	238	175.00	11184
56.00	3112	83.00	45	130.00	485	176.00	150464
57.00	5603	86.00	101	131.00	216	177.00	9714
58.00	248	87.00	11739	133.00	35	178.00	270
59.00	72	88.00	11122	134.00	33	207.00	122
60.00	1961	91.00	615	135.00	260	208.00	7
61.00	9013	92.00	4651	137.00	264	269.00	6
62.00	8709	93.00	7139	140.00	41	281.00	26
63.00	6165	94.00	30288	141.00	1074		

Data File: /chem/5972hp73.i/DF020307B73.b/BF020307B73.d
Date : 07-MAR-2002 19:49
Client ID: BFB
Sample Info:
Volume Injected (uL): 2.0
Column phase: ZB-624

Instrument: 5972hp73.i

Operator: 2323
Column diameter: 0.32

642

Data File: /chem/5972hp73.i/DF020308A73.b/BF020308A73.d

Date : 08-MAR-2002 08:26

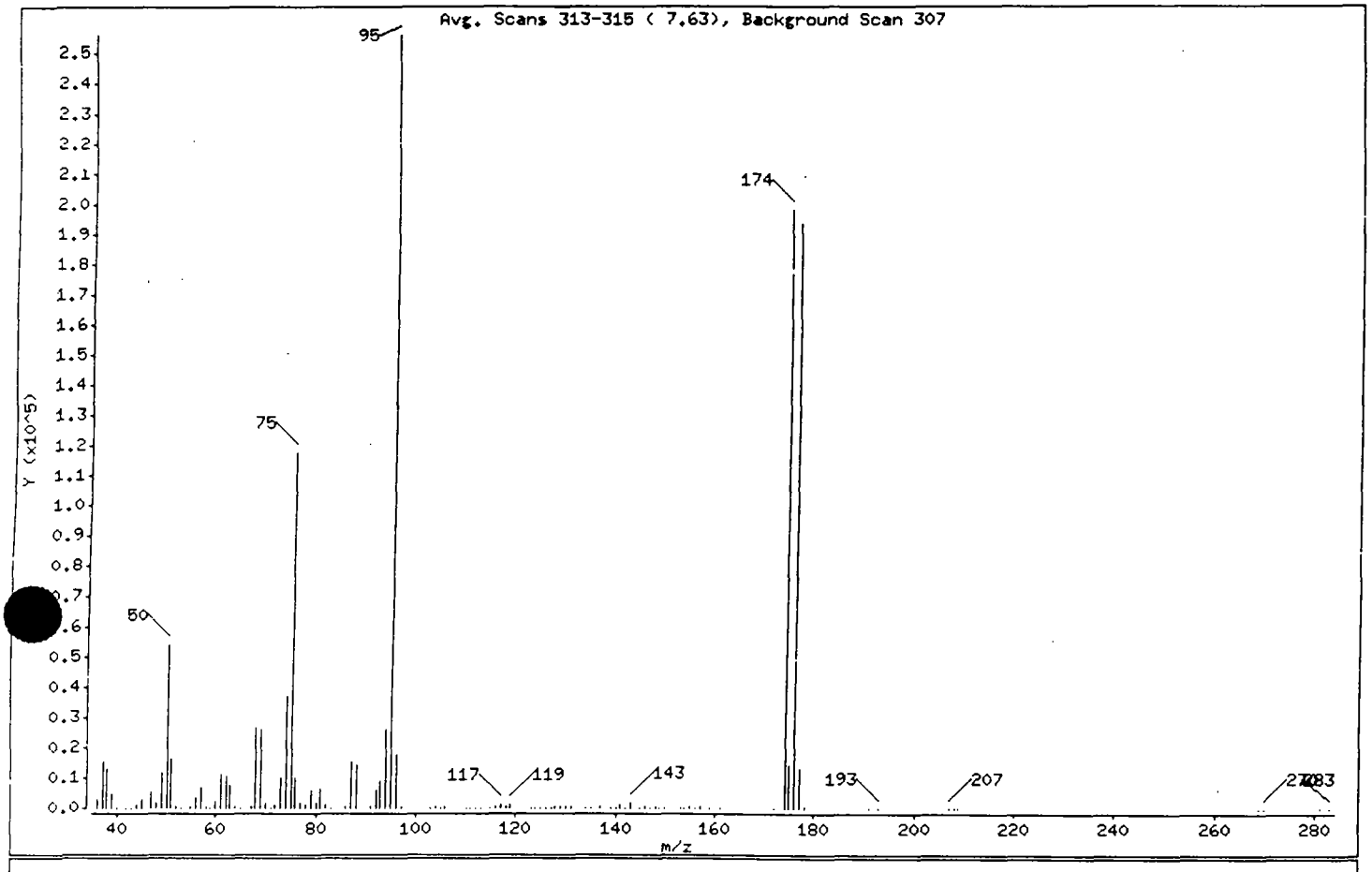
Client ID: BFB | Instrument: 5972hp73.i

Sample Info:

Volume Injected (uL): 2.0 | Operator: 2429

Column phase: ZB-624 | Column diameter: 0.32

1 bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.10
75	30.00 - 60.00% of mass 95	45.87
96	5.00 - 9.00% of mass 95	6.91
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	77.37
175	5.00 - 9.00% of mass 174	5.58 (7.21)
176	95.00 - 101.00% of mass 174	75.71 (97.86)
177	5.00 - 9.00% of mass 176	4.98 (6.58)

Data File: /chem/5972hp73.i/DF020308A73.b/BF020308A73.d

Date : 08-MAR-2002 08:26

Client ID: BFB | Instrument: 5972hp73.i

Sample Info:

Volume Injected (uL): 2.0 | Operator: 2429

Column phase: ZB-624 | Column diameter: 0.32

Data File: BF020308A73.d

Spectrum: Avg. Scans 313-315 (7.63), Background Scan 307

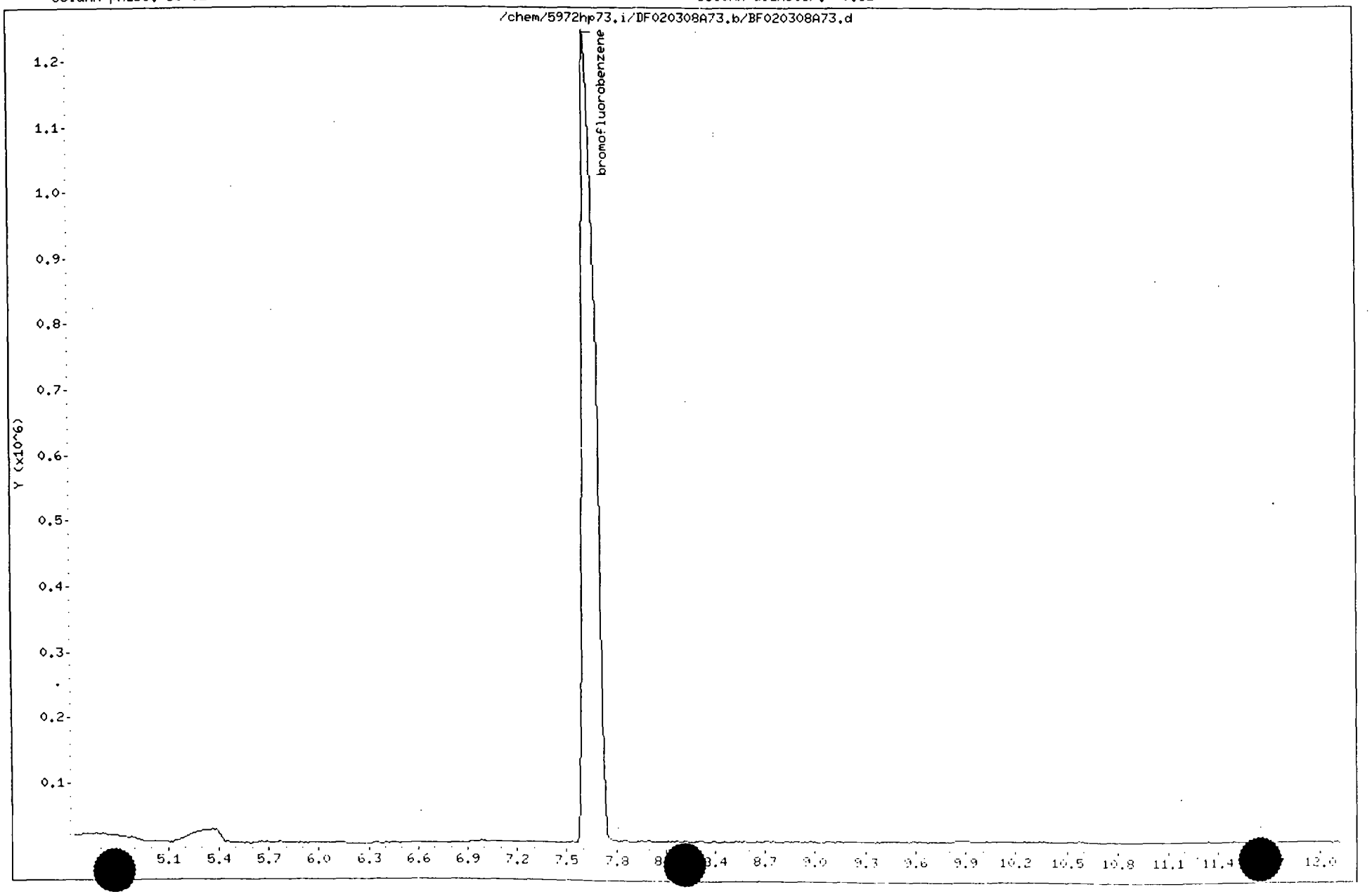
Location of Maximum: 95.00

Number of points: 114

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3040	68.00	26352	106.00	771	146.00	349
37.00	15439	69.00	25688	107.00	205	147.00	112
38.00	13221	70.00	1791	110.00	39	148.00	511
39.00	4898	71.00	70	111.00	92	149.00	153
40.00	117	72.00	1170	112.00	34	150.00	166
42.00	14	73.00	9781	113.00	167	153.00	102
43.00	88	74.00	36960	115.00	257	154.00	156
44.00	1238	75.00	117272	116.00	620	155.00	447
45.00	2663	76.00	10051	117.00	1117	156.00	34
46.00	90	77.00	1730	118.00	677	157.00	314
47.00	5304	78.00	1385	119.00	984	159.00	218
48.00	1775	79.00	6139	123.00	56	161.00	218
49.00	11463	80.00	1867	124.00	91	172.00	69
50.00	53960	81.00	6180	125.00	45	174.00	197824
51.00	16243	82.00	1249	126.00	164	175.00	14259
52.00	738	83.00	86	127.00	137	176.00	193600
53.00	69	86.00	356	128.00	692	177.00	12739
55.00	618	87.00	15277	129.00	338	178.00	363
56.00	3623	88.00	14279	130.00	639	191.00	18
57.00	6954	91.00	778	131.00	297	193.00	37
58.00	328	92.00	5801	134.00	71	207.00	144
59.00	112	93.00	8967	135.00	262	208.00	42
60.00	2324	94.00	25856	137.00	303	209.00	7
61.00	10993	95.00	255680	139.00	60	269.00	21
62.00	10590	96.00	17664	140.00	112	270.00	81
63.00	7677	97.00	532	141.00	1378	281.00	78
64.00	777	103.00	165	142.00	203	283.00	35
65.00	156	104.00	834	143.00	1477		
67.00	773	105.00	228	145.00	93		

Data File: /chem/5972hp73.i/DF020308A73.b/BF020308A73.d
Date : 08-MAR-2002 08:26
Client ID: BFB
Sample Info:
Volume Injected (uL): 2.0
Column phase: ZB-624

Instrument: 5972hp73.i
Operator: 2429
Column diameter: 0.32



Data File: /chem/5972hp73.i/DF020313A73.b/BF020313A73.d

Date : 13-MAR-2002 09:48

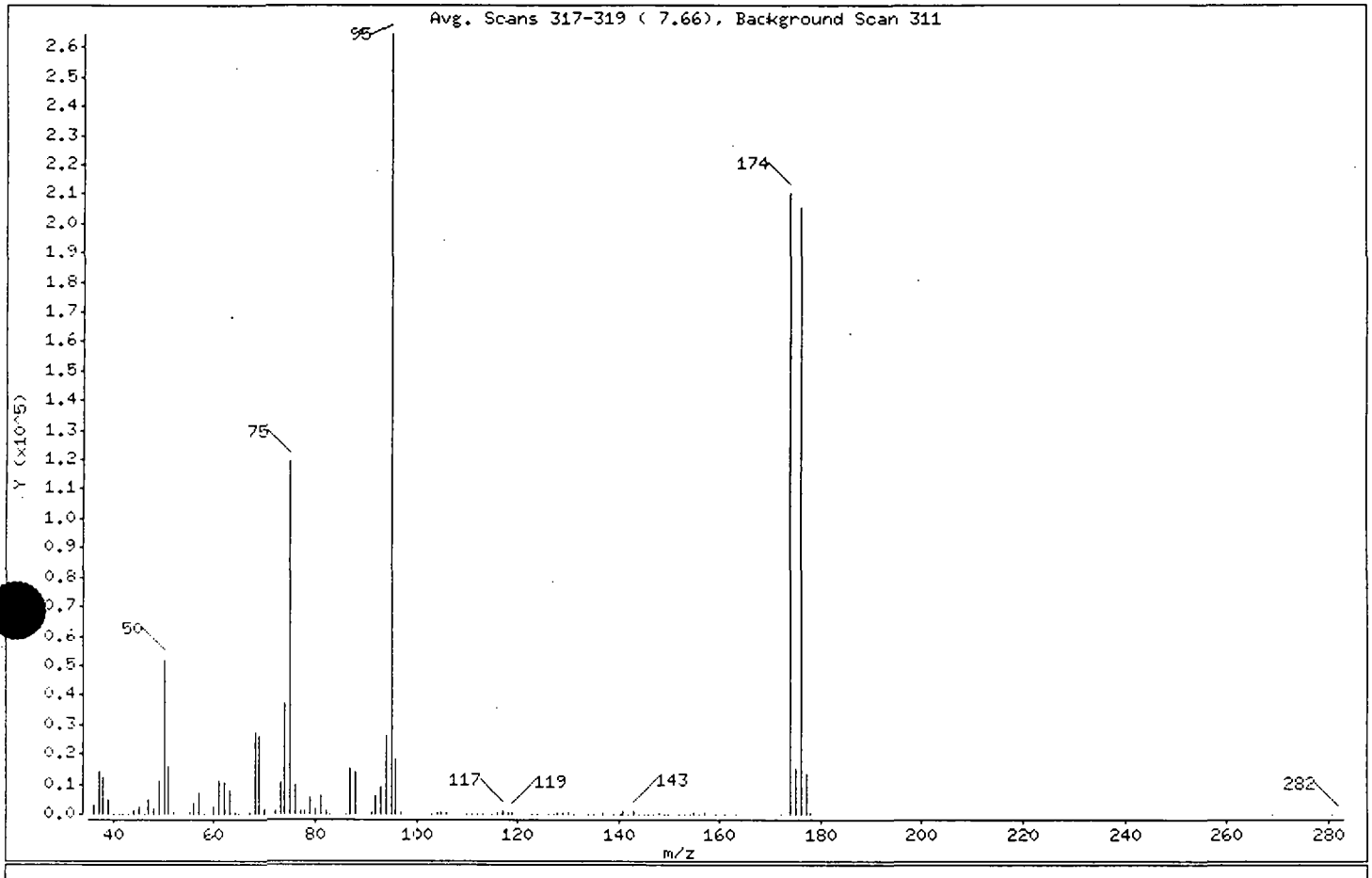
Client ID: BFB | Instrument: 5972hp73.i

Sample Info:

Volume Injected (uL): 2.0 | Operator: 2429

Column phase: ZB-624 | Column diameter: 0.32

1 bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.83
75	30.00 - 60.00% of mass 95	45.19
96	5.00 - 9.00% of mass 95	6.90
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	79.44
175	5.00 - 9.00% of mass 174	5.71 (7.19)
176	95.00 - 101.00% of mass 174	77.57 (97.64)
177	5.00 - 9.00% of mass 176	5.07 (6.54)

Data File: /chem/5972hp73.i/DF020313A73.b/BF020313A73.d

Date : 13-MAR-2002 09:48

Client ID: BFB | Instrument: 5972hp73.i

Sample Info:

Volume Injected (uL): 2.0 | Operator: 2429

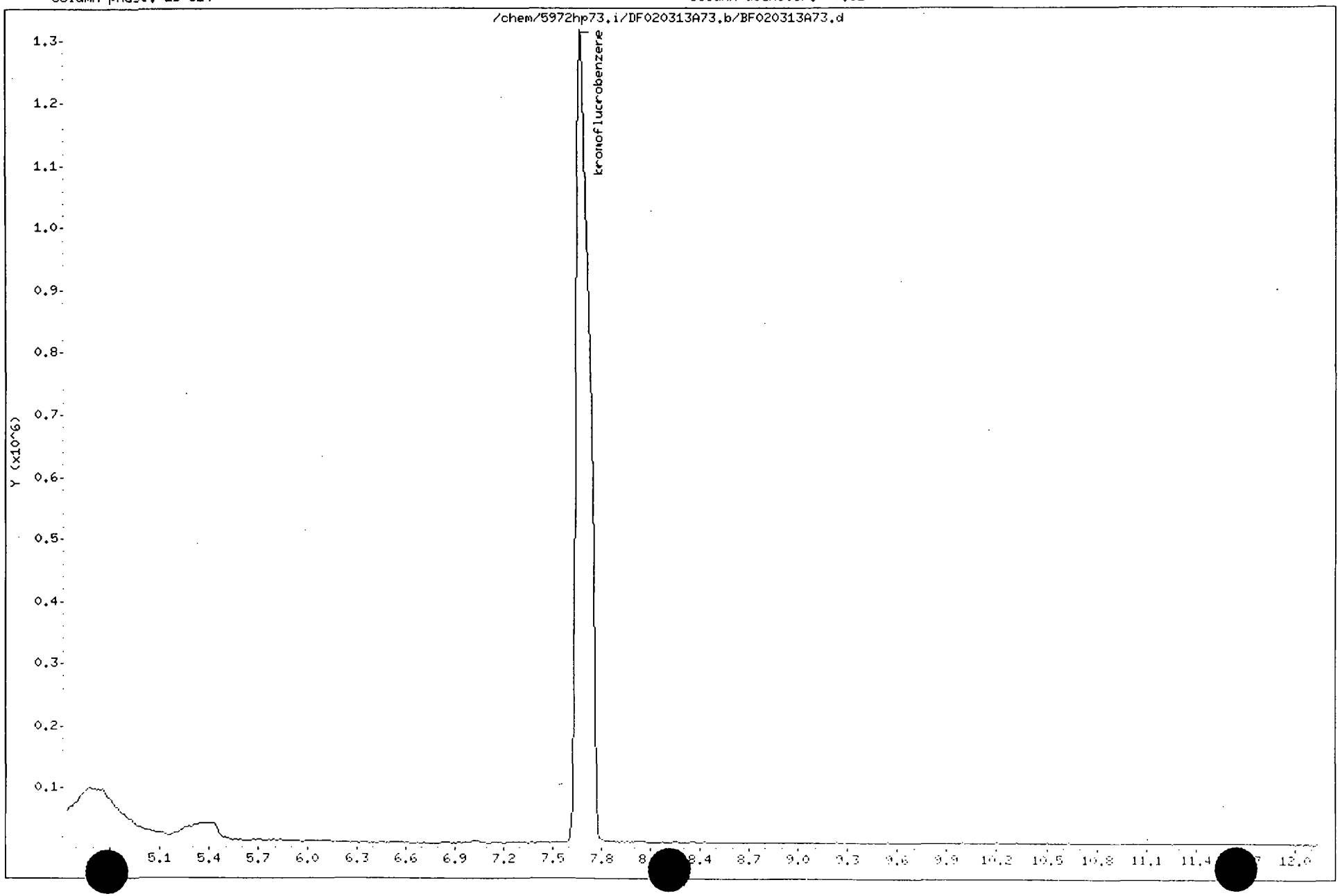
Column phase: ZB-624 | Column diameter: 0.32

Data File: BF020313A73.d
Spectrum: Avg. Scans 317-319 (7.66), Background Scan 311
Location of Maximum: 95.00
Number of points: 110

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2927	67.00	698	104.00	834	143.00	1500
37.00	14536	68.00	27208	105.00	398	144.00	34
38.00	12349	69.00	26064	106.00	764	145.00	116
39.00	4697	70.00	2063	107.00	137	146.00	276
40.00	141	71.00	91	110.00	86	147.00	174
41.00	119	72.00	1210	111.00	169	148.00	471
42.00	1	73.00	10239	112.00	68	149.00	196
43.00	125	74.00	37168	113.00	163	150.00	207
44.00	1337	75.00	119520	115.00	297	152.00	81
45.00	2471	76.00	9886	116.00	695	153.00	160
46.00	211	77.00	1475	117.00	1169	154.00	89
47.00	5051	78.00	1302	118.00	665	155.00	453
48.00	1768	79.00	5725	119.00	873	156.00	72
49.00	11111	80.00	1889	123.00	79	157.00	361
50.00	52456	81.00	5959	124.00	93	159.00	207
51.00	15620	82.00	1481	126.00	164	161.00	207
52.00	607	83.00	133	127.00	34	163.00	69
55.00	633	86.00	200	128.00	825	172.00	40
56.00	3477	87.00	15100	129.00	339	174.00	210112
57.00	7021	88.00	14089	130.00	725	175.00	15106
58.00	290	91.00	765	131.00	289	176.00	205120
60.00	2334	92.00	5828	134.00	33	177.00	13410
61.00	10888	93.00	9143	135.00	255	178.00	349
62.00	10262	94.00	25944	137.00	346	269.00	18
63.00	7688	95.00	264448	139.00	88	281.00	24
64.00	688	96.00	18248	140.00	45	282.00	89
65.00	89	97.00	544	141.00	1440		
66.00	74	103.00	240	142.00	186		

Data File: /chem/5972hp73.i/DF020313A73.b/BF020313A73.d
Date : 13-MAR-2002 09:48
Client ID: BFB
Sample Info:
Volume Injected (uL): 2.0
Column phase: ZB-624

Instrument: 5972hp73.i
Operator: 2429
Column diameter: 0.32



Data File: /chem/5972hp73.i/DF020313B73.b/BF020313B73.d

Date : 13-MAR-2002 21:19

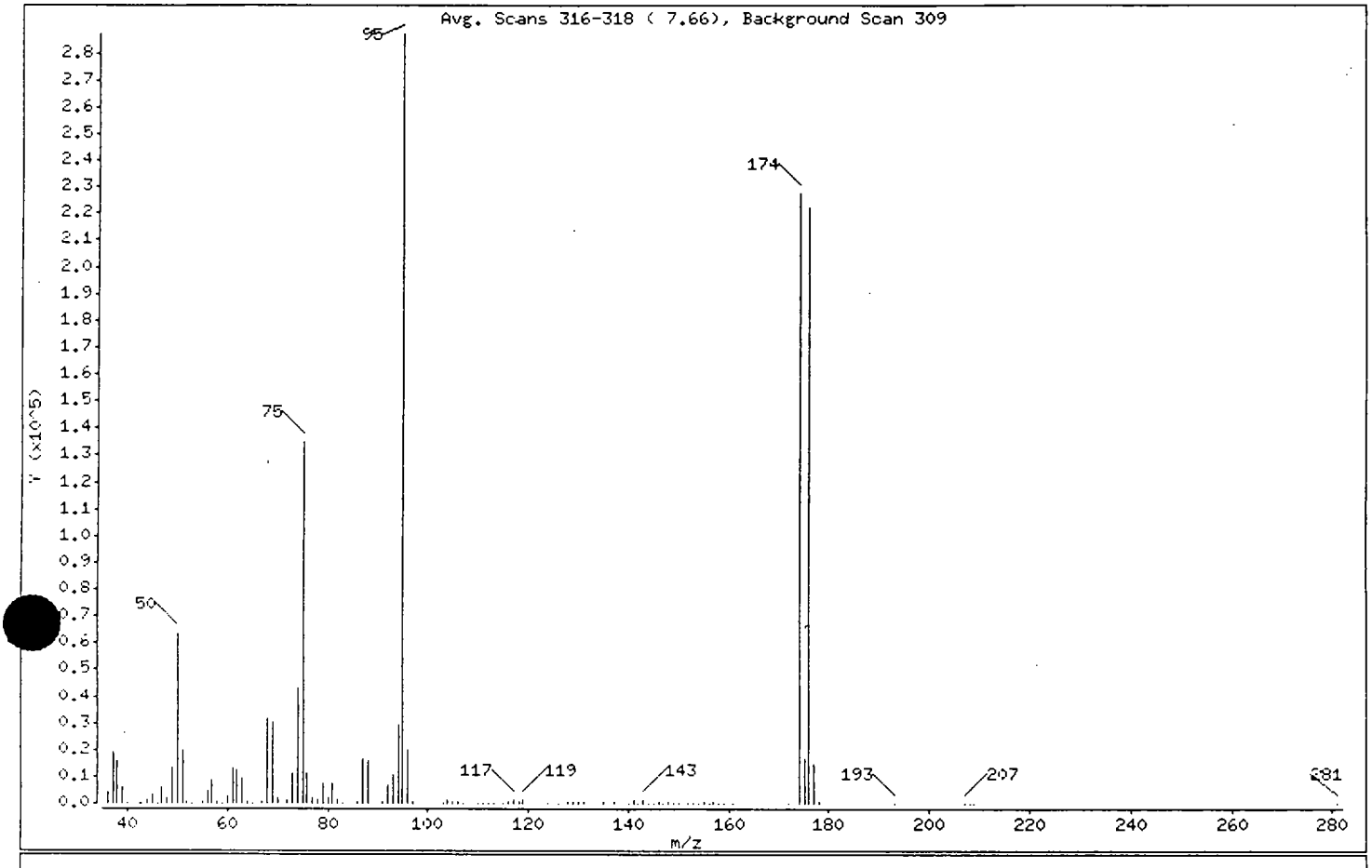
Client ID: BFB | Instrument: 5972hp73.i

Sample Info:

Volume Injected (uL): 2.0 | Operator: 2323

Column phase: ZB-624 | Column diameter: 0.32

1 bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.14
75	30.00 - 60.00% of mass 95	47.10
96	5.00 - 9.00% of mass 95	6.90
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	79.14
175	5.00 - 9.00% of mass 174	5.75 (7.26)
176	95.00 - 101.00% of mass 174	77.45 (97.87)
177	5.00 - 9.00% of mass 176	5.17 (6.67)

Data File: /chem/5972hp73.i/DF020313B73.b/BF020313B73.d

Date : 13-MAR-2002 21:19

Client ID: BFB | Instrument: 5972hp73.i

Sample Info:

Volume Injected (uL): 2.0 | Operator: 2323

Column phase: ZB-624 | Column diameter: 0.32

Data File: BF020313B73.d

Spectrum: Avg. Scans 316-318 (7.66), Background Scan 309

Location of Maximum: 95.00

Number of points: 108

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3872	65.00	175	104.00	1108	147.00	218
37.00	18848	67.00	539	105.00	365	148.00	566
38.00	16088	68.00	31952	106.00	894	149.00	178
39.00	6006	69.00	30736	107.00	231	150.00	219
40.00	217	70.00	2312	110.00	120	152.00	122
41.00	14	72.00	1411	111.00	130	153.00	220
42.00	85	73.00	11503	112.00	155	154.00	85
43.00	102	74.00	42712	113.00	141	155.00	556
44.00	1597	75.00	135168	115.00	290	156.00	138
45.00	3294	76.00	11523	116.00	724	157.00	374
46.00	212	77.00	1972	117.00	1282	158.00	37
47.00	6152	78.00	1478	118.00	752	159.00	219
48.00	2111	79.00	7249	119.00	1096	161.00	247
49.00	13181	80.00	2066	124.00	161	172.00	169
50.00	63544	81.00	7499	126.00	85	174.00	227136
51.00	19552	82.00	1628	128.00	820	175.00	16496
52.00	847	83.00	120	129.00	378	176.00	222272
53.00	45	86.00	334	130.00	790	177.00	14837
55.00	699	87.00	16824	131.00	372	178.00	341
56.00	4572	88.00	15873	135.00	371	193.00	36
57.00	8373	91.00	850	137.00	349	207.00	154
58.00	351	92.00	6761	140.00	150	208.00	25
59.00	84	93.00	10442	141.00	1551	209.00	114
60.00	2678	94.00	29000	142.00	207	281.00	96
61.00	13004	95.00	286976	143.00	1619		
62.00	12643	96.00	19792	144.00	42		
63.00	9173	97.00	528	145.00	150		
64.00	852	103.00	137	146.00	336		

Data File: /chem/5972hp73.i/DF020313B73.b/BF020313B73.d
Date : 13-MAR-2002 21:19
Client ID: BFB
Sample Info:
Volume Injected (uL): 2.0
Column phase: ZB-624

Instrument: 5972hp73.i
Operator: 2323
Column diameter: 0.32

Data File: /chem/5972hp73.i/DF020314A73.b/BF020314A73.d

Date : 14-MAR-2002 09:31

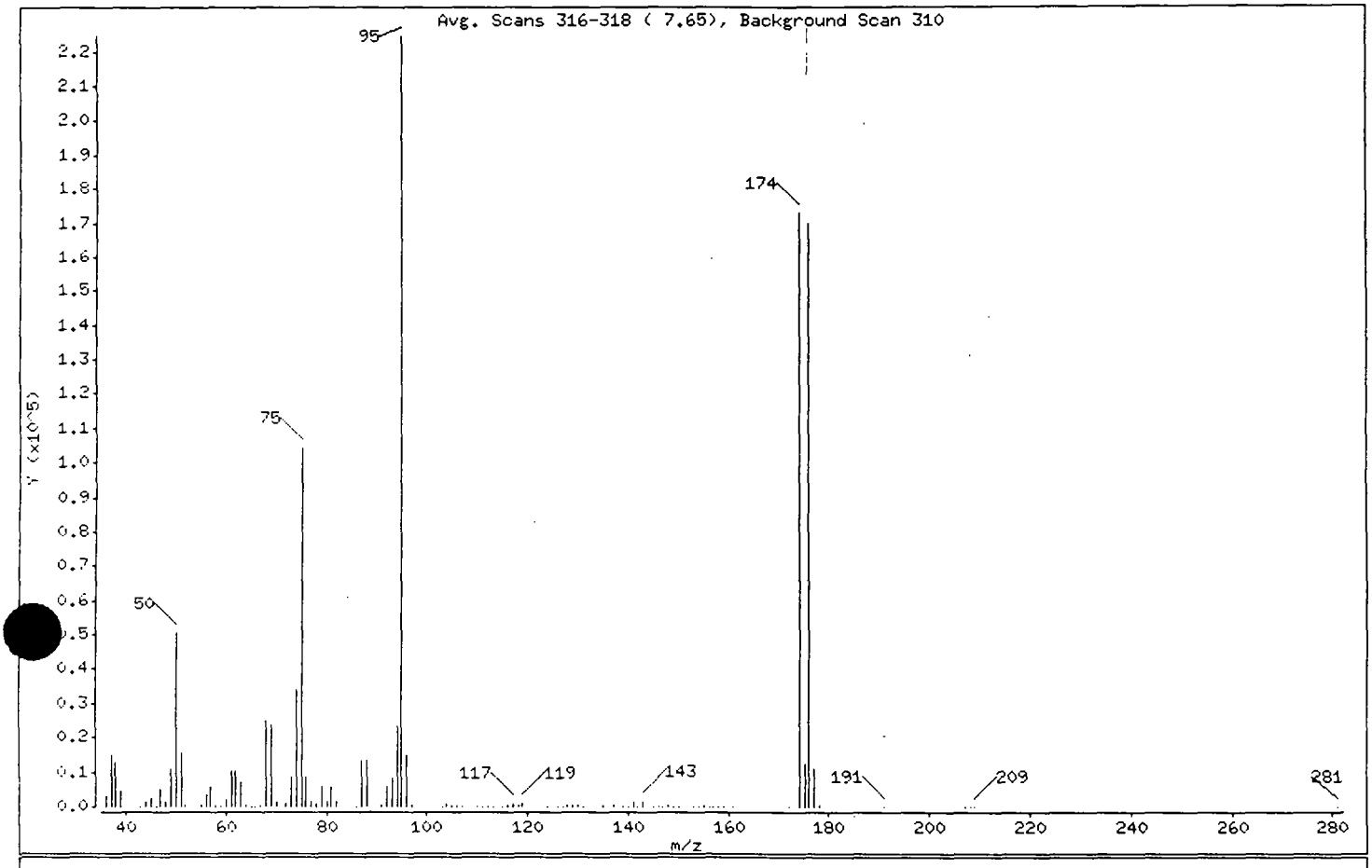
Client ID: BFB | Instrument: 5972hp73.i

Sample Info:

Volume Injected (uL): 2.0 | Operator: 2429

Column phase: ZB-624 | Column diameter: 0.32

1 bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.48
75	30.00 - 60.00% of mass 95	46.41
96	5.00 - 9.00% of mass 95	6.75
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	77.09
175	5.00 - 9.00% of mass 174	5.58 (7.24)
176	95.00 - 101.00% of mass 174	75.68 (98.18)
177	5.00 - 9.00% of mass 176	4.89 (6.46)

Data File: /chem/5972hp73.i/DF020314A73.b/BF020314A73.d

Date : 14-MAR-2002 09:31

Client ID: BFB | Instrument: 5972hp73.i

Sample Info:

Volume Injected (uL): 2.0 | Operator: 2429

Column phase: ZB-624 | Column diameter: 0.32

Data File: BF020314A73.d

Spectrum: Avg. Scans 316-318 (7.65), Background Scan 310

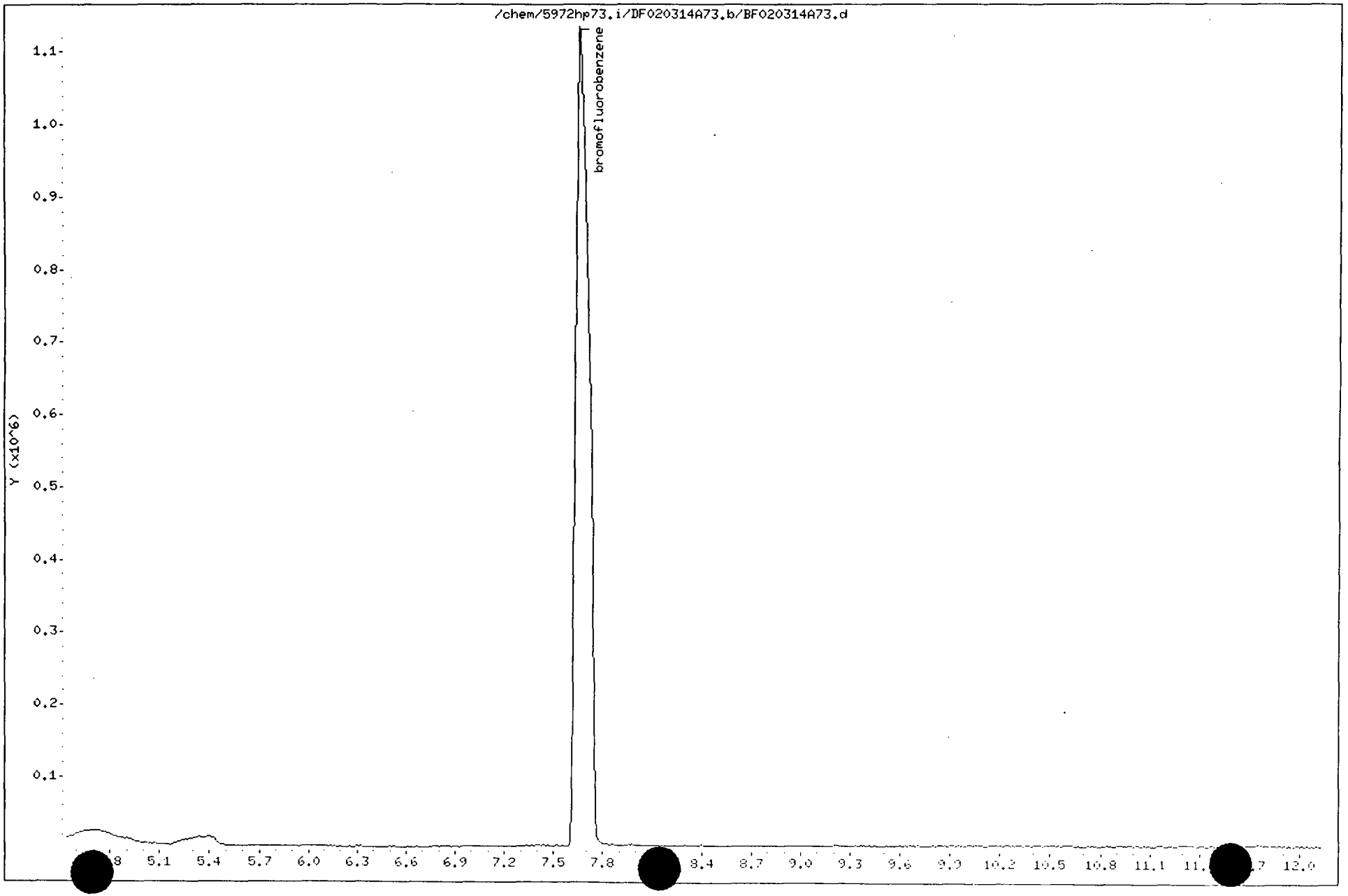
Location of Maximum: 95.00

Number of points: 107

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3081	66.00	36	103.00	136	143.00	1345
37.00	15341	67.00	471	104.00	808	145.00	94
38.00	12843	68.00	24704	105.00	306	146.00	253
39.00	4860	69.00	23776	106.00	766	147.00	162
40.00	39	70.00	1785	107.00	172	148.00	379
42.00	143	72.00	1232	110.00	34	149.00	129
43.00	128	73.00	8797	111.00	139	150.00	167
44.00	1343	74.00	33944	112.00	84	153.00	157
45.00	2582	75.00	104176	113.00	138	154.00	72
46.00	162	76.00	8899	115.00	188	155.00	360
47.00	5116	77.00	1540	116.00	544	156.00	38
48.00	1625	78.00	1230	117.00	1049	157.00	241
49.00	10596	79.00	5805	118.00	599	158.00	33
50.00	50464	80.00	1791	119.00	903	159.00	166
51.00	15321	81.00	5931	124.00	123	161.00	143
52.00	678	82.00	1293	126.00	36	172.00	131
55.00	656	83.00	81	127.00	35	174.00	173056
56.00	3444	86.00	194	128.00	595	175.00	12534
57.00	6352	87.00	13531	129.00	314	176.00	169856
58.00	335	88.00	13203	130.00	611	177.00	10971
59.00	51	91.00	744	131.00	234	178.00	312
60.00	2228	92.00	5524	135.00	324	191.00	136
61.00	10361	93.00	8216	137.00	266	207.00	23
62.00	10257	94.00	23160	139.00	34	208.00	51
63.00	7010	95.00	224448	140.00	35	209.00	90
64.00	715	96.00	15152	141.00	1332	281.00	44
65.00	182	97.00	498	142.00	102		

Data File: /chem/5972hp73.i/DF020314A73.b/BF020314A73.d
Date : 14-MAR-2002 09:31
Client ID: BFB
Sample Info:
Volume Injected (uL): 2.0
Column phase: ZB-624

Instrument: 5972hp73.i
Operator: 2429
Column diameter: 0.32



Data File: /chem/5972hp71.i/BF020312A71.b/BF020312A71.d

Date : 12-MAR-2002 07:37

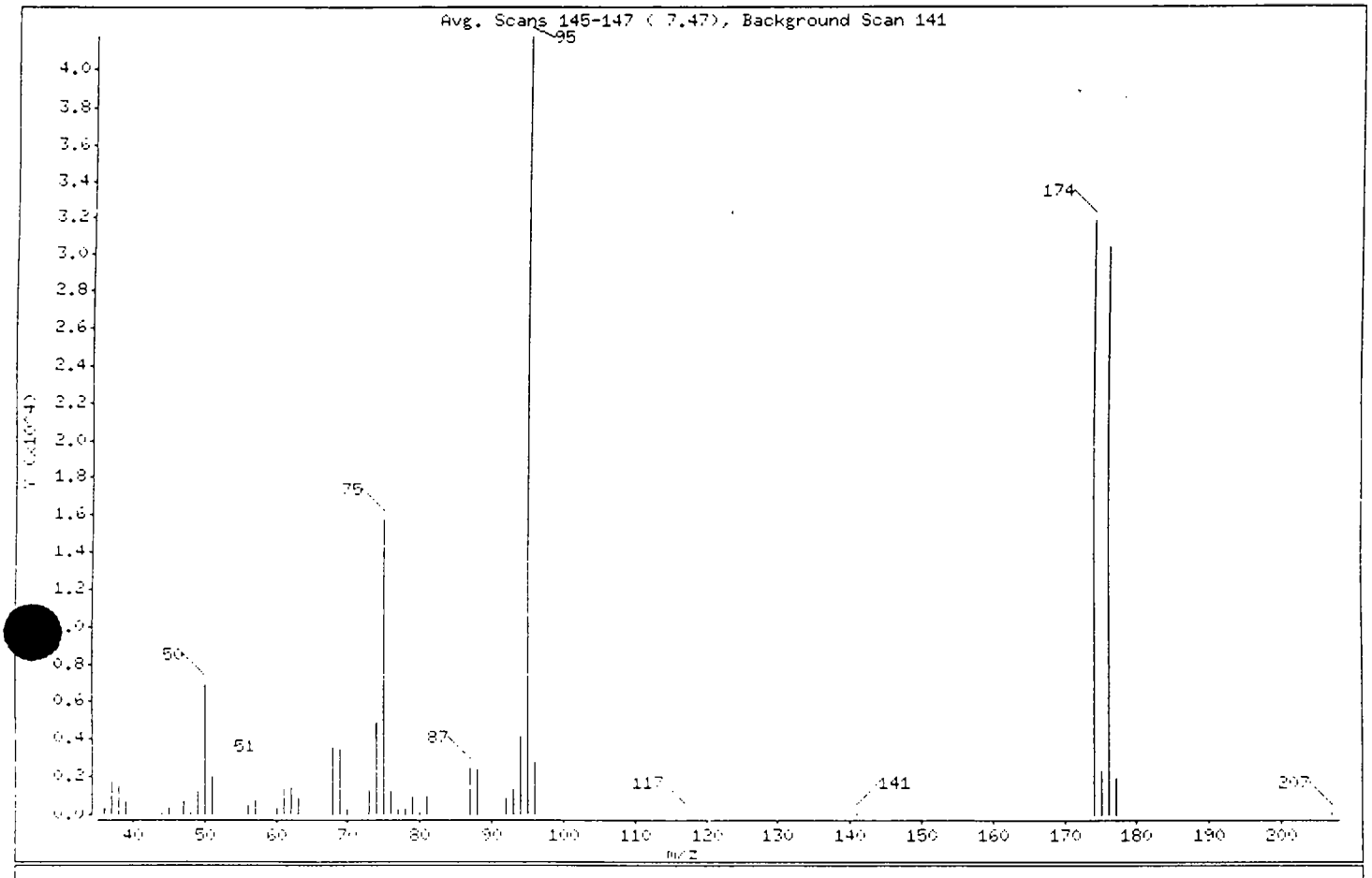
Client ID: BFB | Instrument: 5972hp71.i

Sample Info:

Volume Injected (uL): 2.0 | Operator: 2423

Column phase: EQUITY624 | Column diameter: 0.53

1 bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.65
75	30.00 - 60.00% of mass 95	37.77
96	5.00 - 9.00% of mass 95	6.76
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	76.30
175	5.00 - 9.00% of mass 174	5.56 (7.28)
176	95.00 - 101.00% of mass 174	72.85 (95.48)
177	5.00 - 9.00% of mass 176	4.67 (6.41)

Data File: /chem/5972hp71.i/BF020312A71.b/BF020312A71.d

Date : 12-MAR-2002 07:37

Client ID: BFB | Instrument: 5972hp71.i

Sample Info:

Volume Injected (uL): 2.0 | Operator: 2423

Column phase: EQUITY624 | Column diameter: 0.53

Data File: BF020312A71.d

Spectrum: Avg. Scans 145-147 (7.47), Background Scan 141

Location of Maximum: 95.00

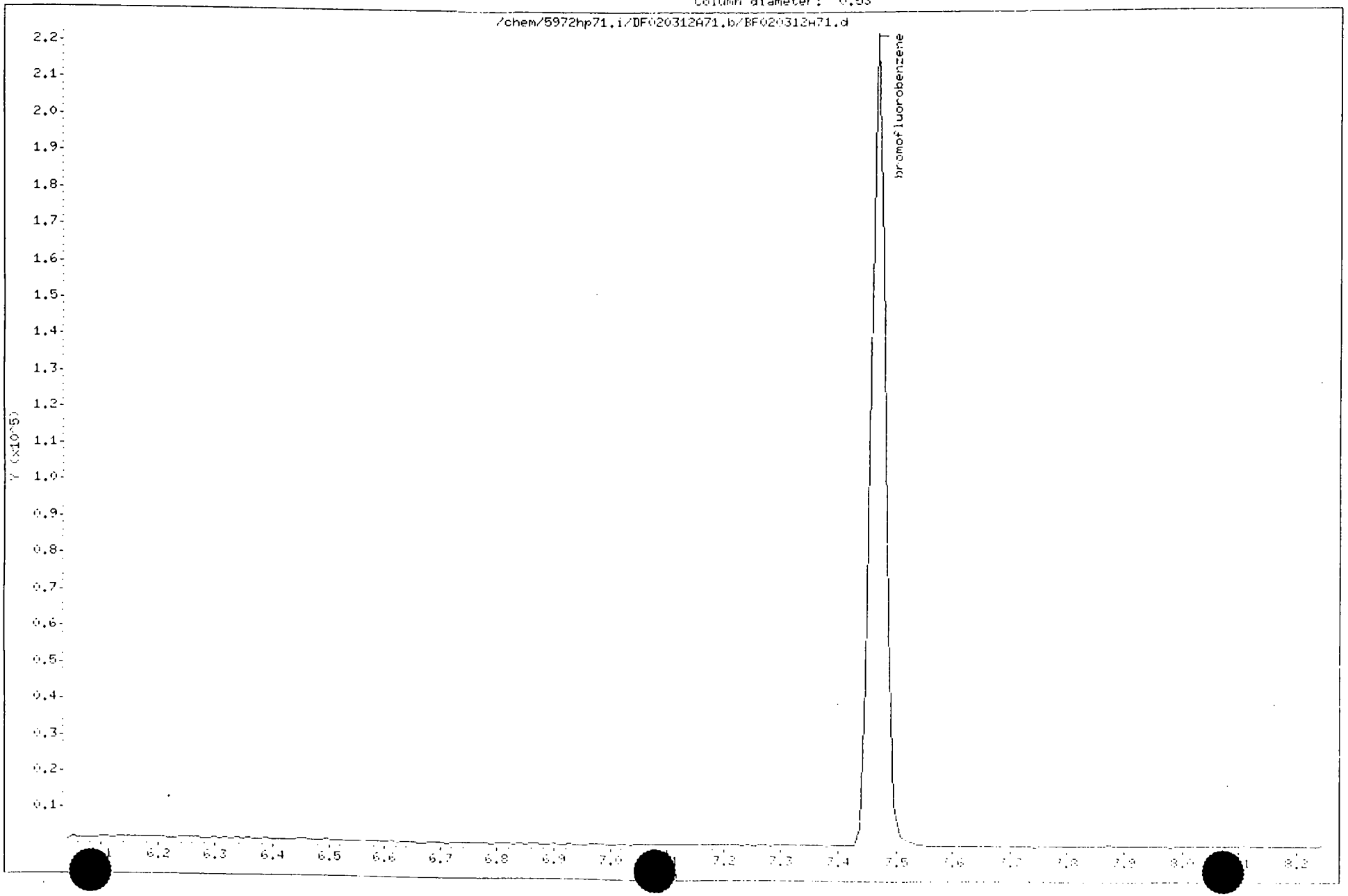
Number of points: 44

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	384	57.00	864	77.00	266	117.00	95
37.00	1834	60.00	347	78.00	320	119.00	87
38.00	1510	61.00	1410	79.00	963	141.00	94
39.00	698	62.00	1415	80.00	136	174.00	31848
44.00	133	63.00	984	81.00	982	175.00	2320
45.00	377	68.00	3564	87.00	2513	176.00	30408
47.00	781	69.00	3492	88.00	2381	177.00	1948
48.00	102	70.00	285	92.00	846	207.00	93
49.00	1280	73.00	1314	93.00	1299		
50.00	6950	74.00	4888	94.00	4117		
51.00	2053	75.00	15765	95.00	41736		
56.00	457	76.00	1386	96.00	2821		

Data File: /chem/5972hp71.i/DF020312A71.b/BF020312A71.d
Date : 12-MAR-2002 07:37
Client ID: BFB
Sample Info:
Volume Injected (uL): 2.0
Column phase: EQUITY624

Instrument: 5972hp71.i

Operator: 2423
Column diameter: 0.53



Data File: /chem/5972hp71.i/DF020313A71.b/BF020313A71.d

Date : 13-MAR-2002 08:29

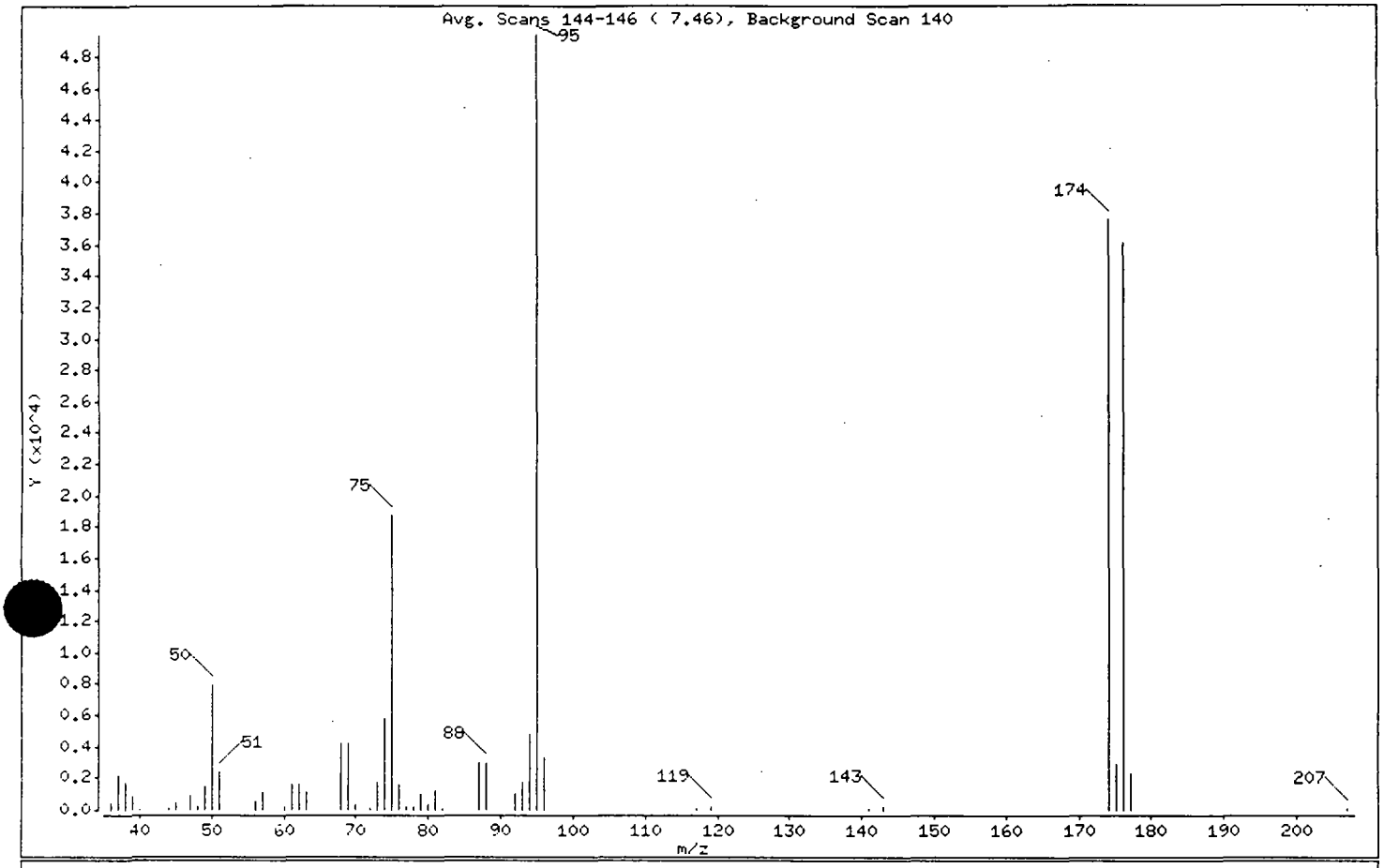
Client ID: BFB | Instrument: 5972hp71.i

Sample Info:

Volume Injected (uL): 2.0 | Operator: 2423

Column phase: SPB-624 | Column diameter: 0.32

1 bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.03
75	30.00 - 60.00% of mass 95	37.90
96	5.00 - 9.00% of mass 95	6.64
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	76.20
175	5.00 - 9.00% of mass 174	5.71 (7.50)
176	95.00 - 101.00% of mass 174	73.19 (96.05)
177	5.00 - 9.00% of mass 176	4.62 (6.32)

Data File: /chem/5972hp71.i/DF020313A71.b/BF020313A71.d

Date : 13-MAR-2002 08:29

Client ID: BFB | Instrument: 5972hp71.i

Sample Info:

Volume Injected (uL): 2.0 | Operator: 2423

Column phase: SPB-624 | Column diameter: 0.32

Data File: BF020313A71.d

Spectrum: Avg. Scans 144-146 (7.46), Background Scan 140

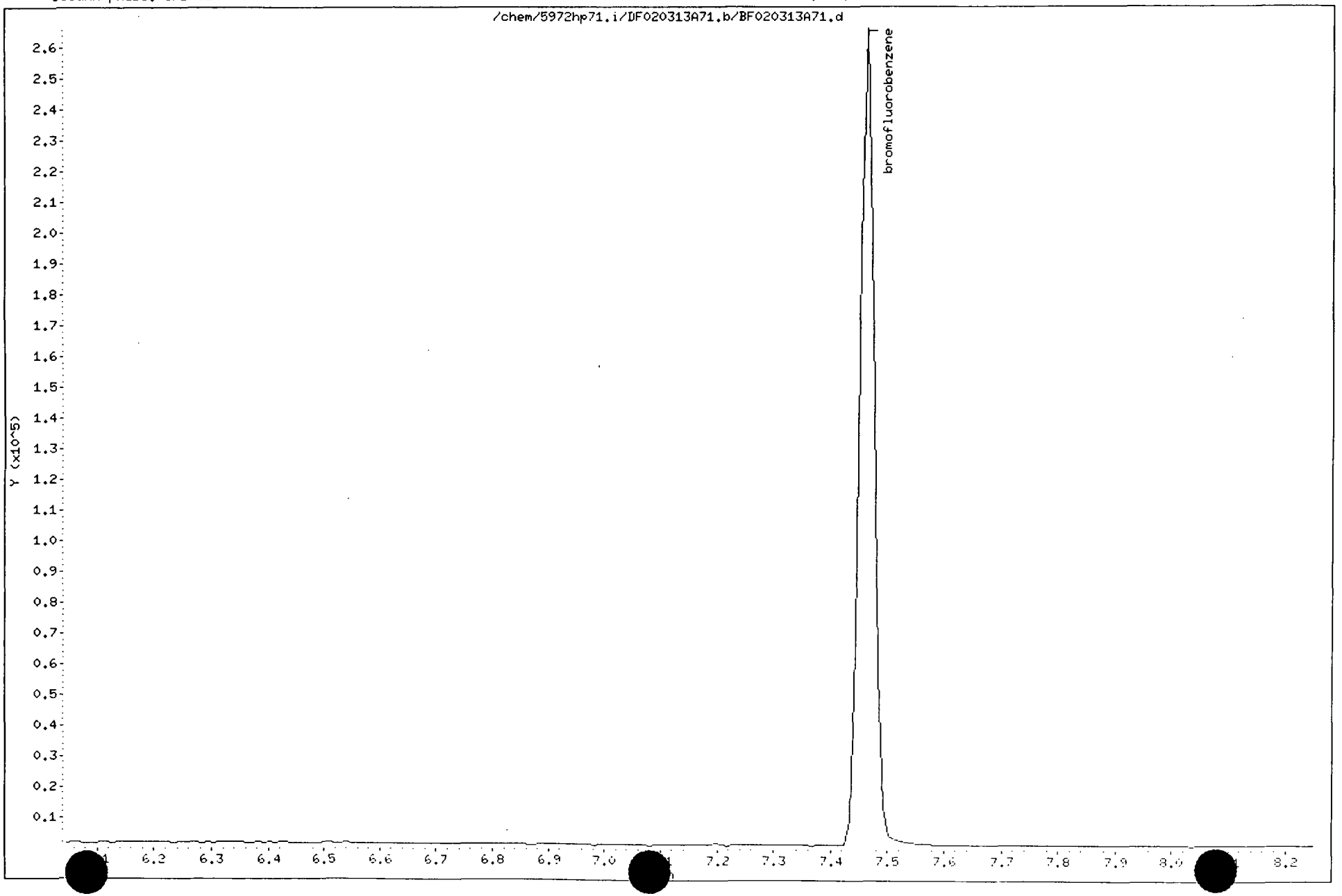
Location of Maximum: 95.00

Number of points: 48

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	404	57.00	1087	77.00	273	117.00	110
37.00	2110	60.00	267	78.00	231	119.00	180
38.00	1744	61.00	1612	79.00	1071	141.00	109
39.00	750	62.00	1616	80.00	317	143.00	231
40.00	33	63.00	1149	81.00	1214	174.00	37608
44.00	61	68.00	4245	82.00	108	175.00	2820
45.00	430	69.00	4158	87.00	2920	176.00	36120
47.00	923	70.00	345	88.00	2934	177.00	2282
48.00	176	72.00	110	92.00	1044	207.00	101
49.00	1522	73.00	1680	93.00	1678		
50.00	7911	74.00	5829	94.00	4776		
51.00	2439	75.00	18704	95.00	49352		
56.00	512	76.00	1640	96.00	3275		

Data File: /chem/5972hp71.i/DF020313A71.b/BF020313A71.d
Date : 13-MAR-2002 08:29
Client ID: BFB
Sample Info:
Volume Injected (uL): 2.0
Column phase: SPB-624

Instrument: 5972hp71.i
Operator: 2423
Column diameter: 0.32



b. Blank Data

Arranged by type of blank (method, storage, instrument) in chronological order, by instrument. Shall include:

- Tabulated Results (Form I VOA)
- Tentatively Identified Compounds (Form I VOA-TIC)
- Reconstructed Ion Chromatogram and quantitation report.
- Target compound spectra with lab-generated standard spectra.
- Quantitation/Calculation of TIC concentrations.
- GC/MS library search spectra for TICs.

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKZD

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: WG16157-1

Sample wt/vol: 25 (g/ml) ML Lab File ID: WG16157-1A73CT

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/07/02

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-15-0	Carbon disulfide	0.5	U
67-64-1	Acetone	1	J
75-09-2	Methylene Chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-butanone	3	U
67-66-3	Chloroform	0.09	J
71-55-6	1,1,1-Trichloroethane	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
71-43-2	Benzene	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.08	J
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	3	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
591-78-6	2-hexanone	3	U
124-48-1	Dibromochloromethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.5	U
108-38-3	m,p-Xylene	1	U
95-47-6	o-Xylene	0.5	U
100-42-5	Styrene	0.5	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKZD

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: WG16157-1

Sample wt/vol: 25 (g/ml) ML Lab File ID: WG16157-1A73CT

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/07/02

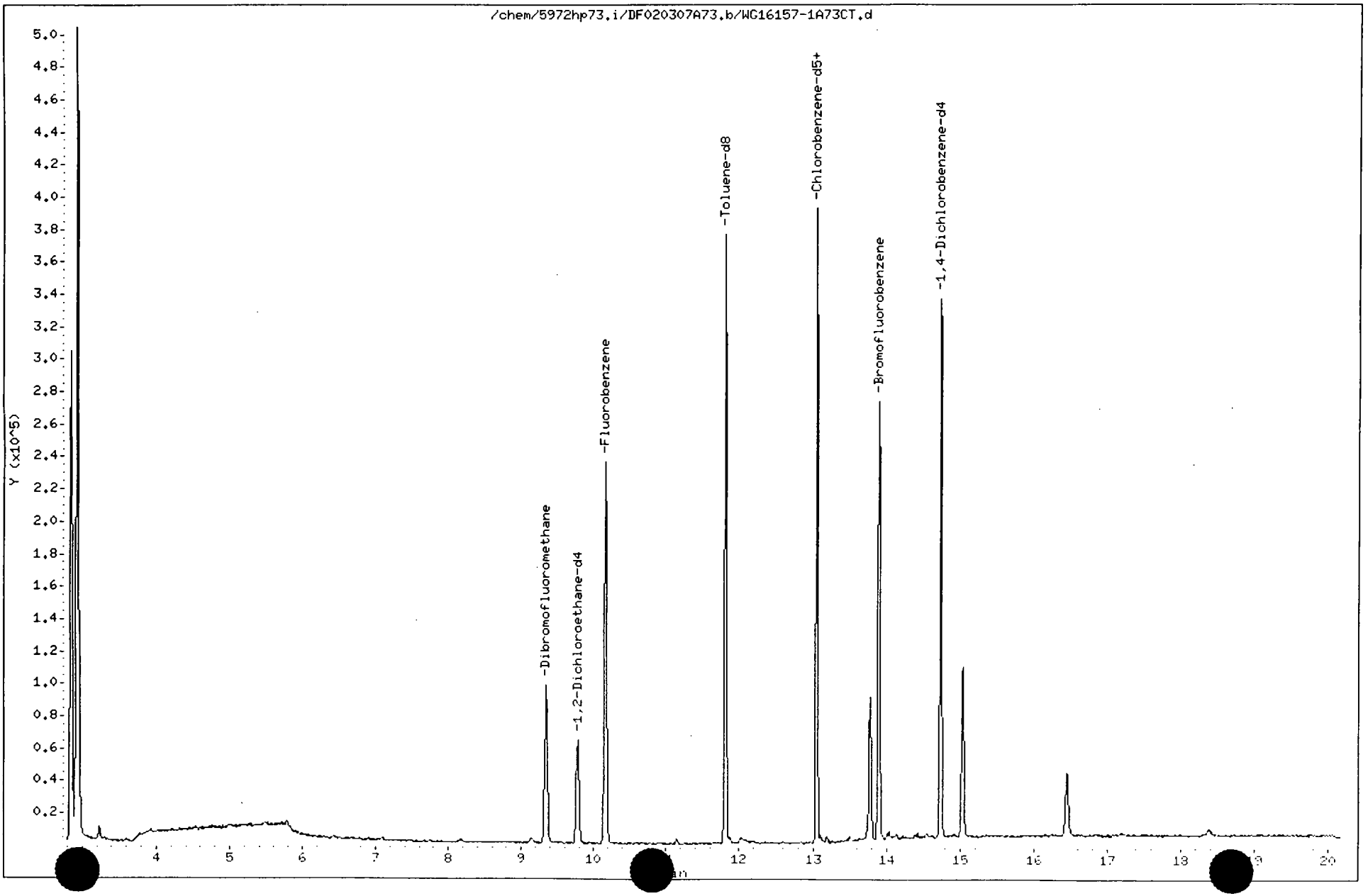
GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-25-2	Bromoform	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
1330-20-7	Xylene (total)	0.5	U

Data File: /chem/5972hp73.i/DF020307A73.b/WG16157-1A73CT.d
Date : 07-MAR-2002 08:56
Client ID: VBLKZD
Sample Info:
Purge Volume: 25.0
Column phase: ZB-624

Instrument: 5972hp73.i
Operator: 2429
Column diameter: 0.32



Data File: /chem/5972hp73.i/DF020307A73.b/WG16157-1A73CT.d
Report Date: 08-Mar-2002 15:51

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF020307A73.b/WG16157-1A73CT.d
Lab Smp Id: WG16157-1 Client Smp ID: VBLKZD
Inj Date : 07-MAR-2002 08:56
Operator : 2429 Inst ID: 5972hp73.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp73.i/DF020307A73.b/W8260-B-25MLv6.m
Meth Date : 08-Mar-2002 13:55 hubbard Quant Type: ISTD
Cal Date : 22-FEB-2002 22:50 Cal File: CY020222B73.d
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL3CT.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

nd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	10.165	10.169	(1.000)	263643	125.000	
* 2 Chlorobenzene-d5	117	13.049	13.053	(1.000)	193855	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.742	14.736	(1.000)	96035	125.000	
$ 4 Dibromofluoromethane	113	9.348	9.352	(0.920)	73950	120.942	4.84
$ 5 1,2-Dichloroethane-d4	65	9.781	9.775	(0.962)	56855	109.499	4.38
$ 6 Toluene-d8	98	11.809	11.813	(0.905)	239979	123.428	4.94
$ 7 Bromofluorobenzene	95	13.895	13.899	(0.943)	86383	124.435	4.98
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
16 1,1-Dichloroethene	96	Compound Not Detected.					
21 Carbon disulfide	76	Compound Not Detected.					
18 Acetone	43	6.435	6.439	(0.633)	2733	25.2253	1.01(aM) 2
24 Methylene Chloride	84	Compound Not Detected.					
27 trans-1,2-Dichloroethene	96	Compound Not Detected.					

SAH 3/8/02

Data File: /chem/5972hp73.i/DF020307A73.b/WG16157-1A73CT.d
Report Date: 08-Mar-2002 15:51

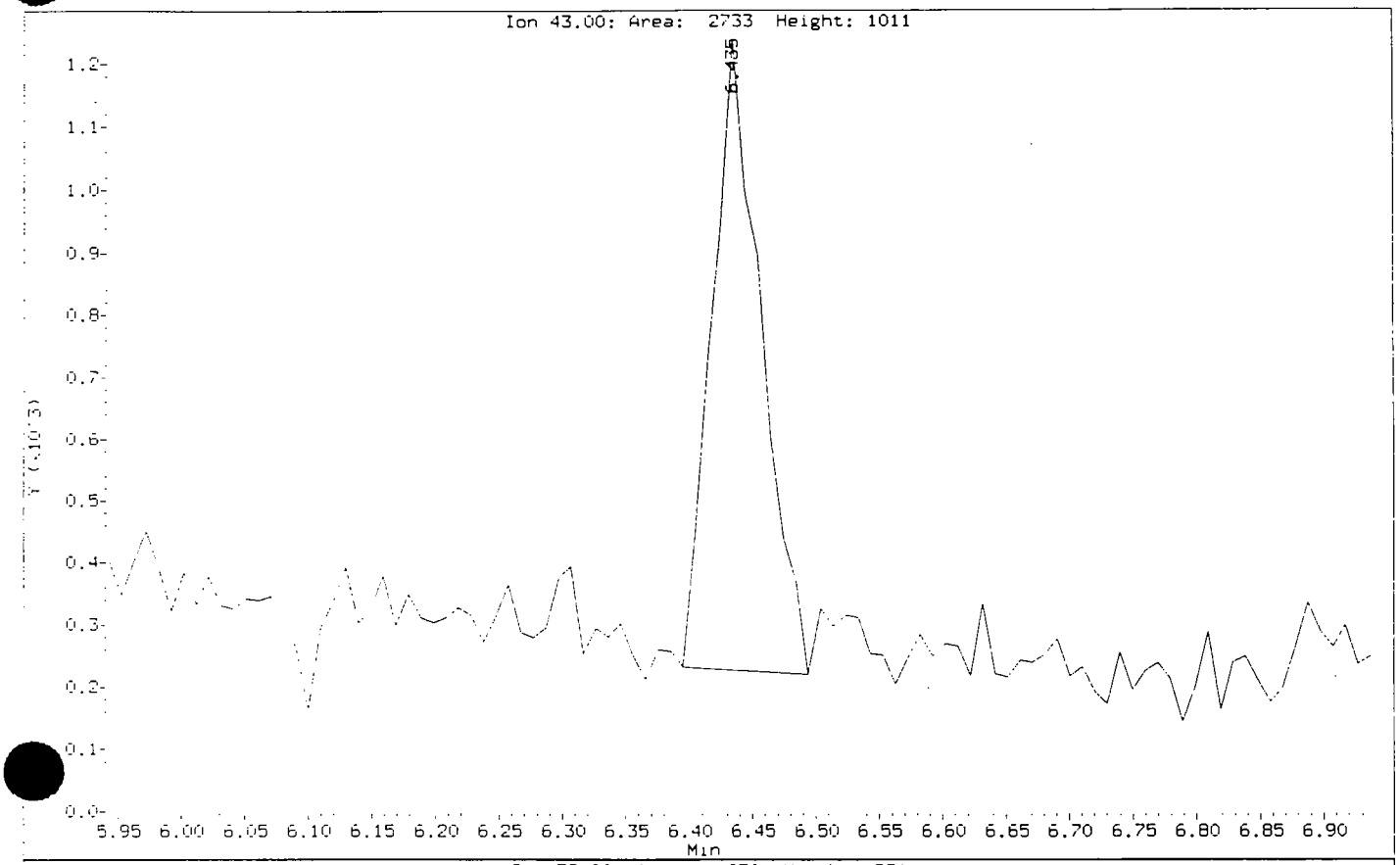
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
30 1,1-Dichloroethane	63	Compound Not Detected.					
34 cis-1,2-Dichloroethene	96	Compound Not Detected.					
37 2-butanone	43	Compound Not Detected.					
42 Chloroform	83	9.141	9.145	(0.899)	3160	2.32279	0.0929(a)
43 1,1,1-Trichloroethane	97	Compound Not Detected.					
48 Carbon Tetrachloride	117	Compound Not Detected.					
51 Benzene	78	Compound Not Detected.					
49 1,2-Dichloroethane	62	Compound Not Detected.					
53 Trichloroethene	130	Compound Not Detected.					
55 1,2-Dichloropropane	63	Compound Not Detected.					
59 Bromodichloromethane	83	11.149	11.143	(1.097)	1823	2.11193	0.0845(a)
61 cis-1,3-Dichloropropene	75	Compound Not Detected.					
62 4-Methyl-2-pentanone	43	Compound Not Detected.					
63 Toluene	92	Compound Not Detected.					
64 trans-1,3-Dichloropropene	75	Compound Not Detected.					
65 1,1,2-Trichloroethane	97	Compound Not Detected.					
68 Tetrachloroethene	164	Compound Not Detected.					
69 2-hexanone	43	Compound Not Detected.					
70 Dibromochloromethane	129	Compound Not Detected.					
72 Chlorobenzene	112	Compound Not Detected.					
75 Ethylbenzene	106	Compound Not Detected.					
76 m,p-Xylene	106	Compound Not Detected.					
77 o-Xylene	106	Compound Not Detected.					
78 Styrene	104	Compound Not Detected.					
79 Bromoform	173	Compound Not Detected.					
82 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
M 107 Xylene (total)	106	Compound Not Detected.					

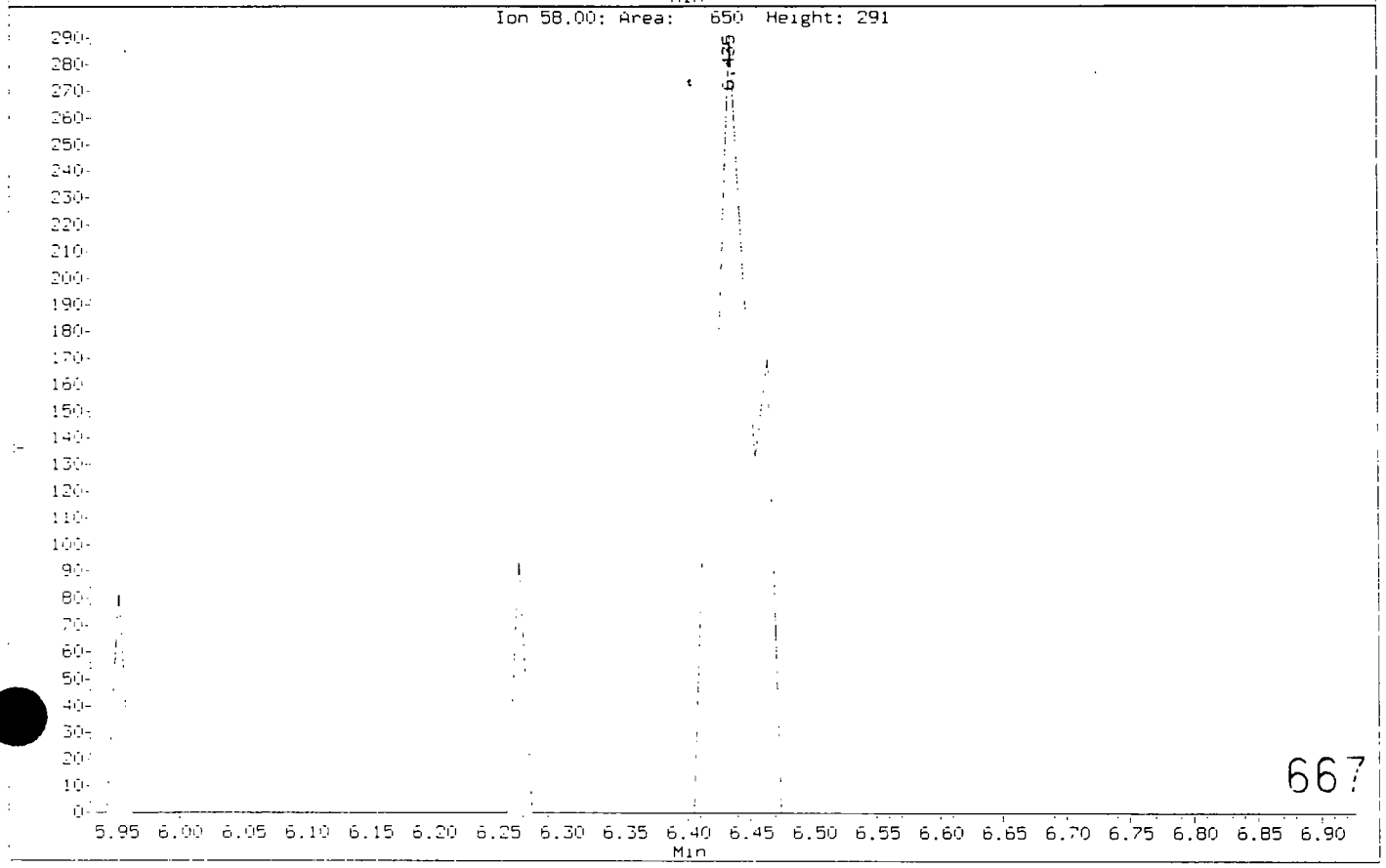
QC Flag Legend

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

Data File: /chem/5972hp73.i/DF020307A73.b/WG16157-1A73CT.d
Injection Date: 07-MAR-2002 08:56
Instrument: 5972hp73.i
Client Sample ID: VBLKZD

pound: Acetone
Number: 67-64-1





667

Data File: /chem/5972hp73.i/DF020307A73.b/WG16157-1A73CT.d

Date : 07-MAR-2002 08:56

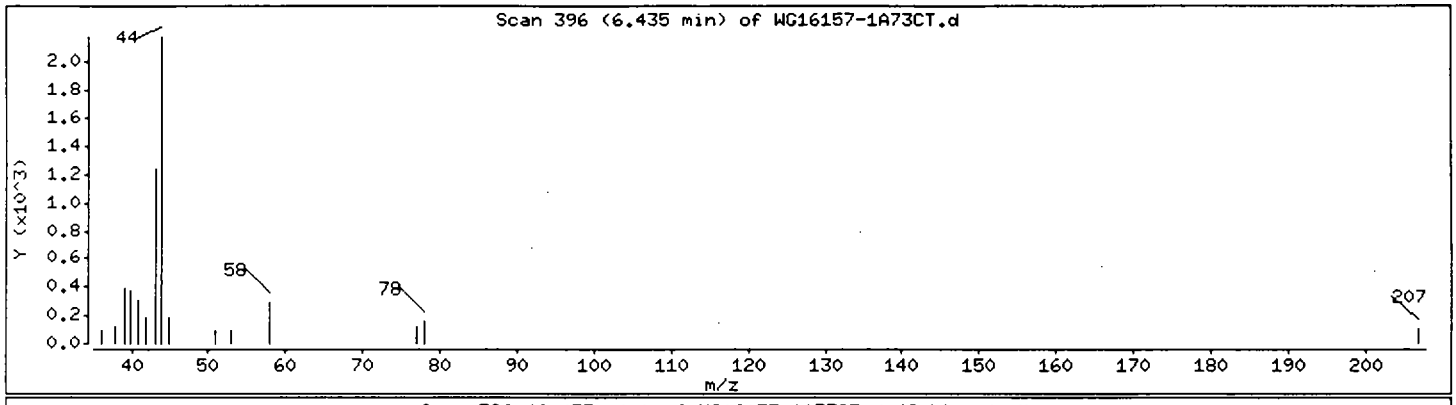
Client ID: VBLKZD | Instrument: 5972hp73.i

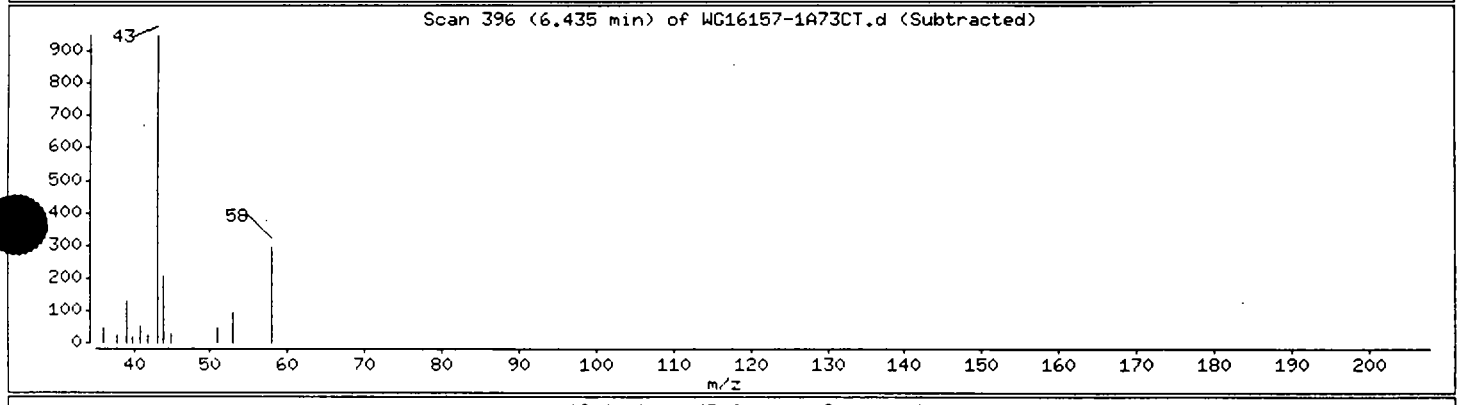
Sample Info:

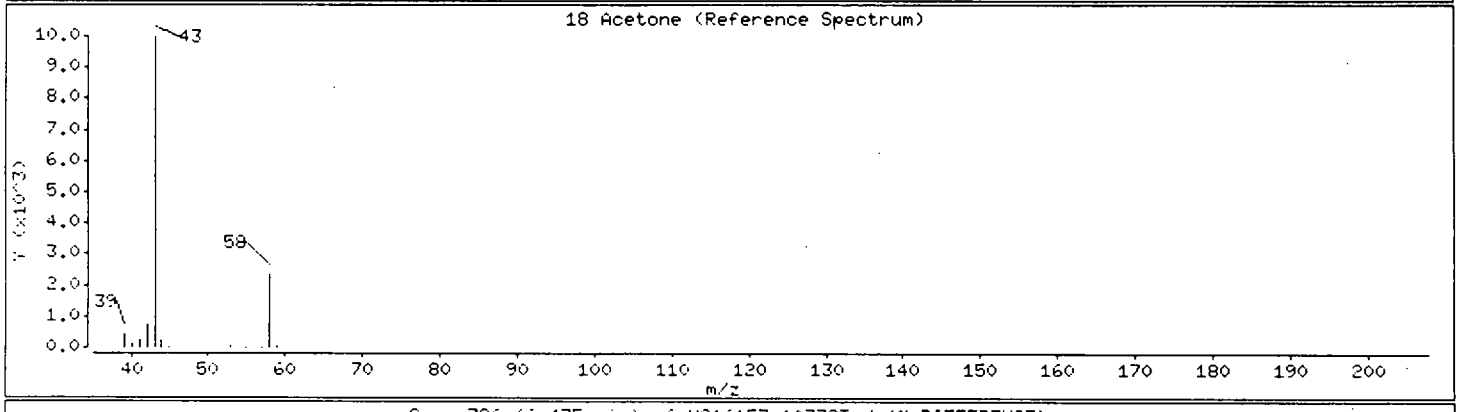
Purge Volume: 25.0 | Operator: 2429

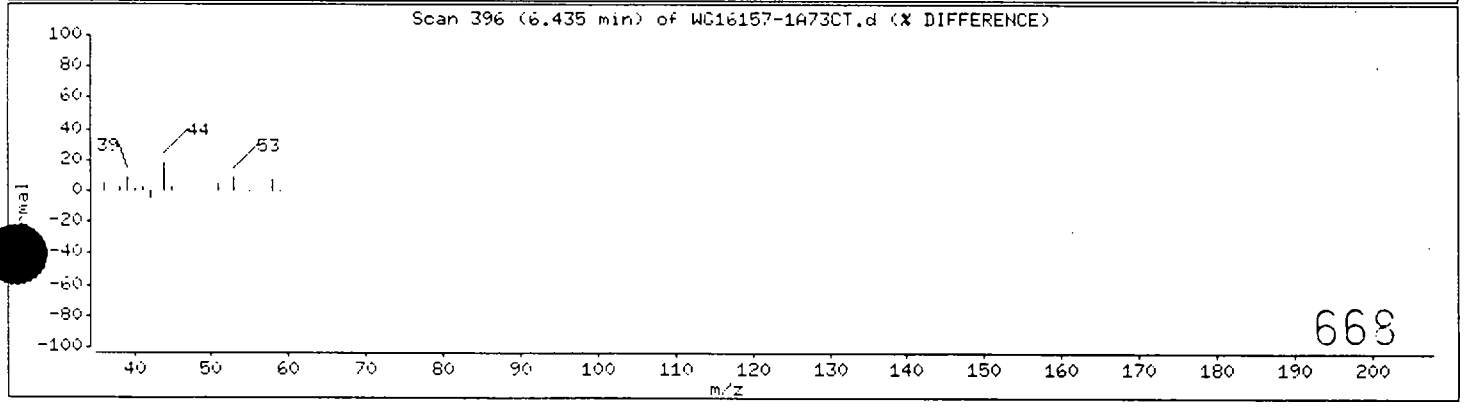
Column phase: ZB-624 | Column diameter: 0.32

18 Acetone | Concentration: 1.01 ug/L









668

Data File: /chem/5972hp73.i/DF020307A73.b/WG16157-1A73CT.d

Date : 07-MAR-2002 08:56

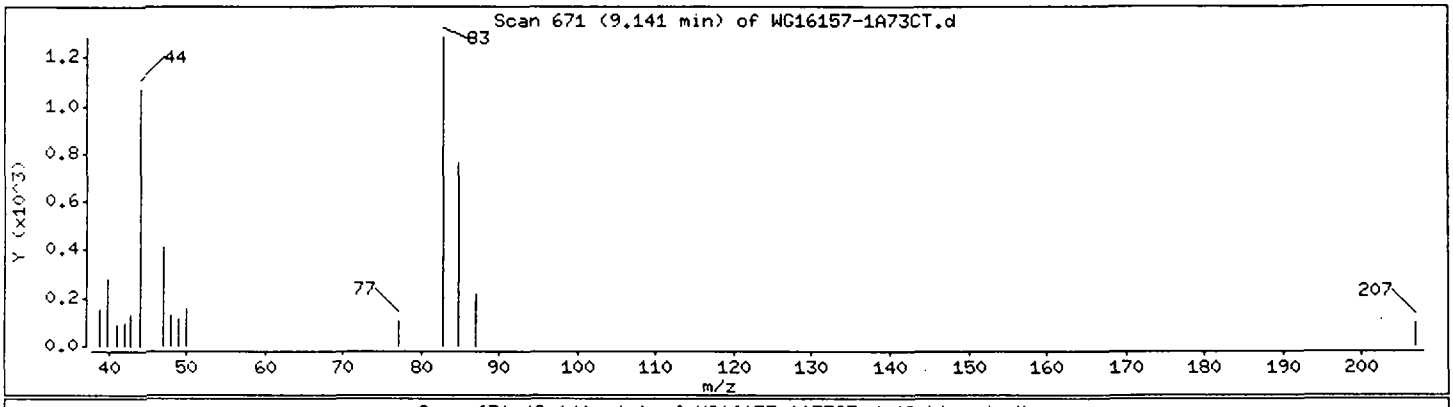
Client ID: VBLKZD | Instrument: 5972hp73.i

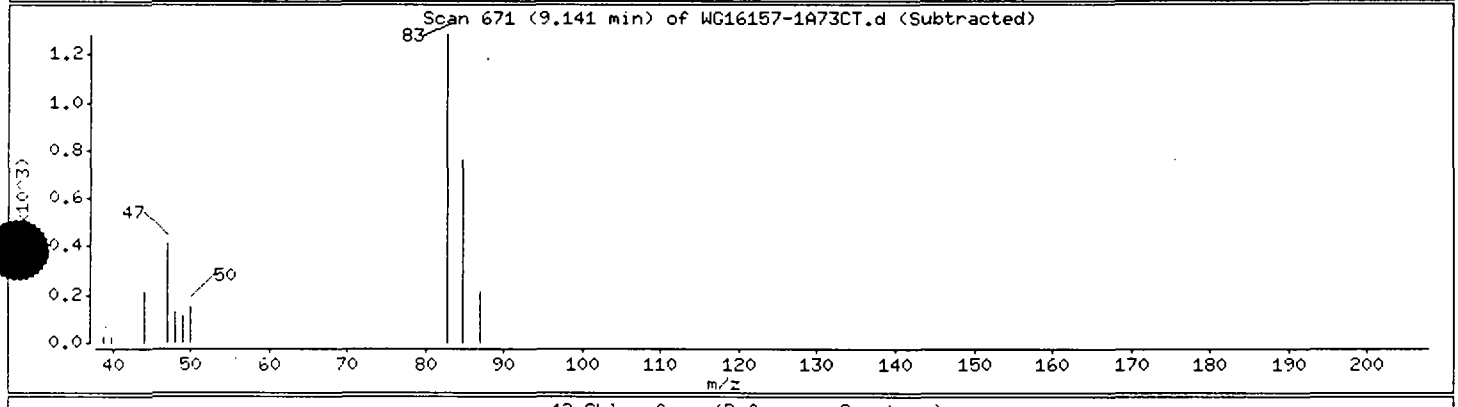
Sample Info:

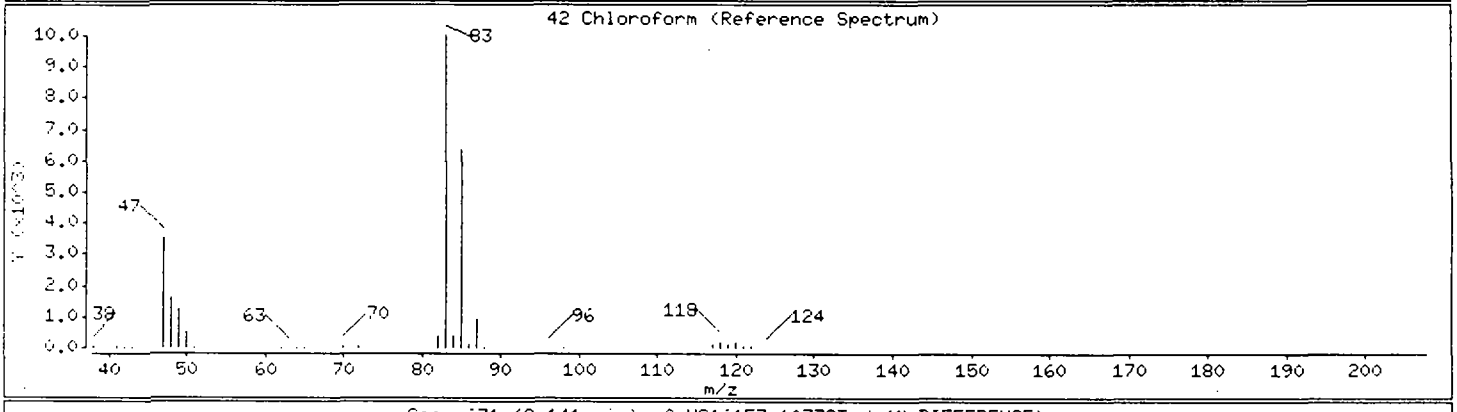
Purge Volume: 25.0 | Operator: 2429

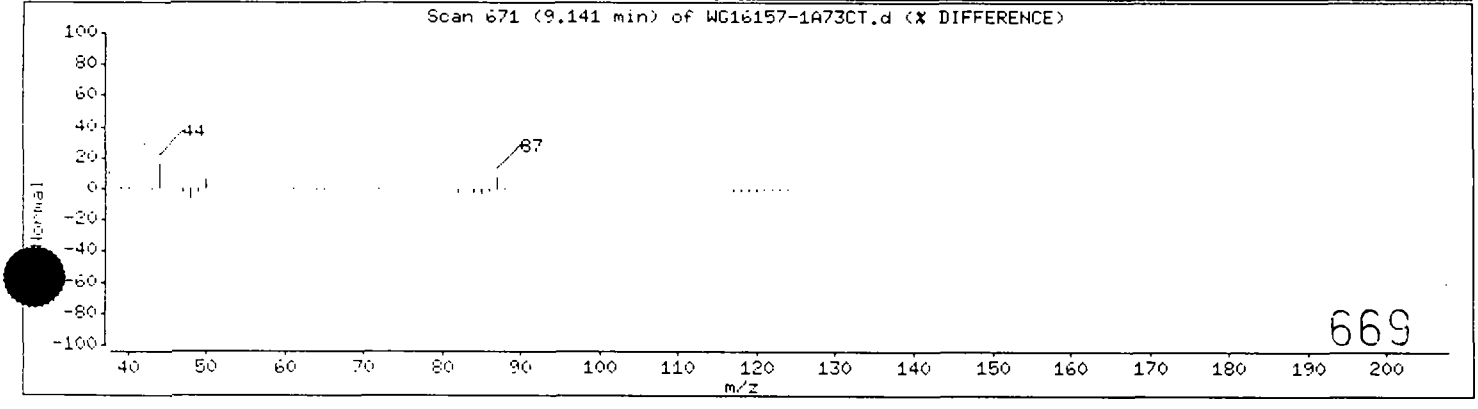
Column phase: ZB-624 | Column diameter: 0.32

42 Chloroform | Concentration: 0.0929 ug/L









669

Data File: /chem/5972hp73.i/DF020307A73.b/WG16157-1A73CT.d

Date : 07-MAR-2002 08:56

Client ID: VBLKZD

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

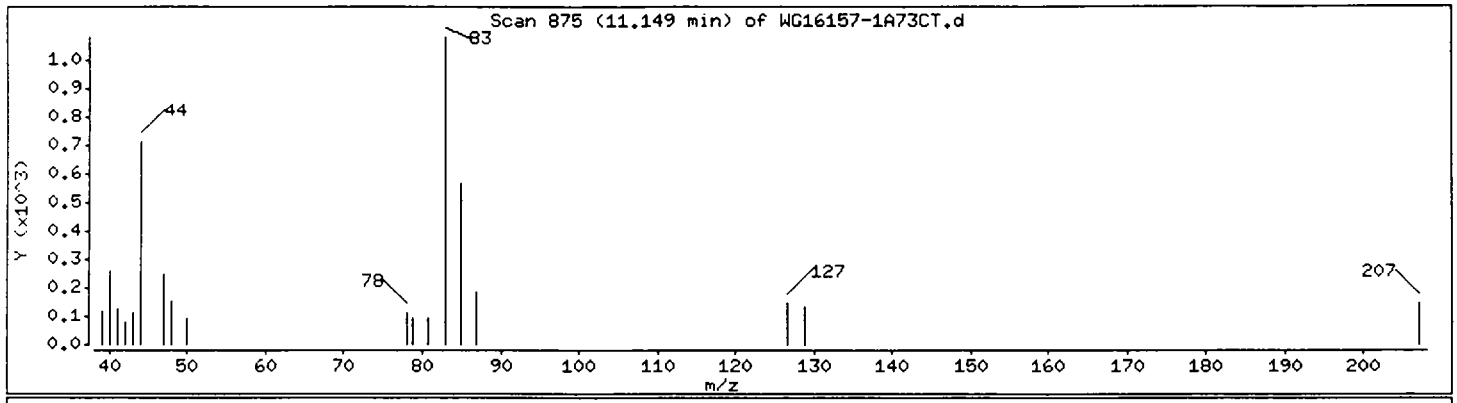
Operator: 2429

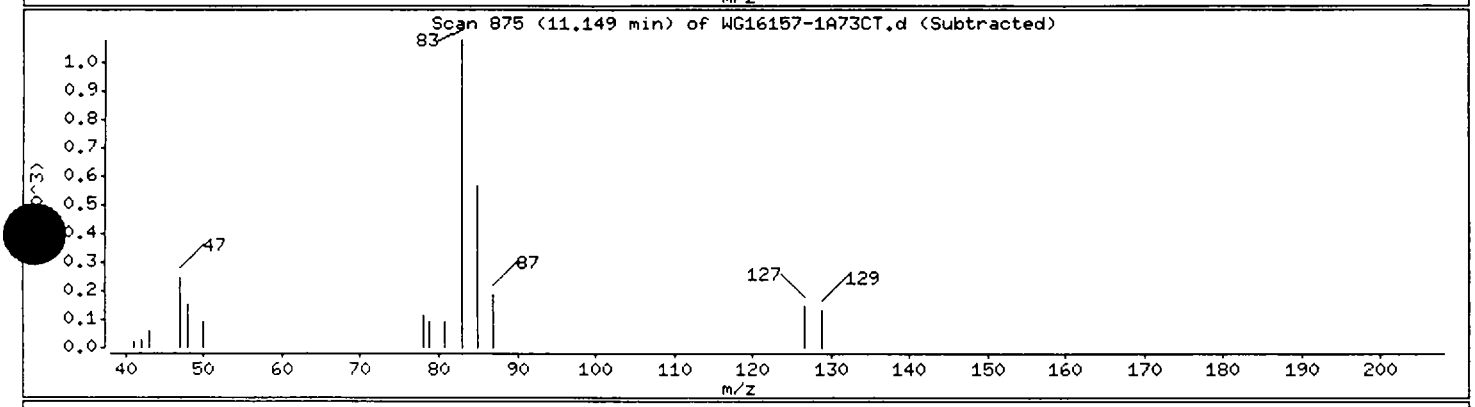
Column phase: ZB-624

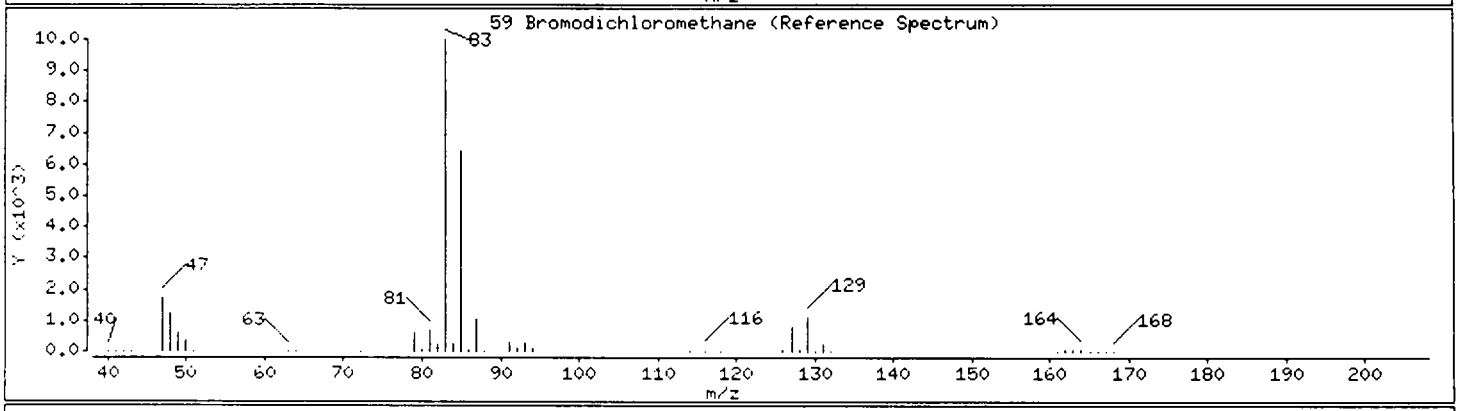
Column diameter: 0.32

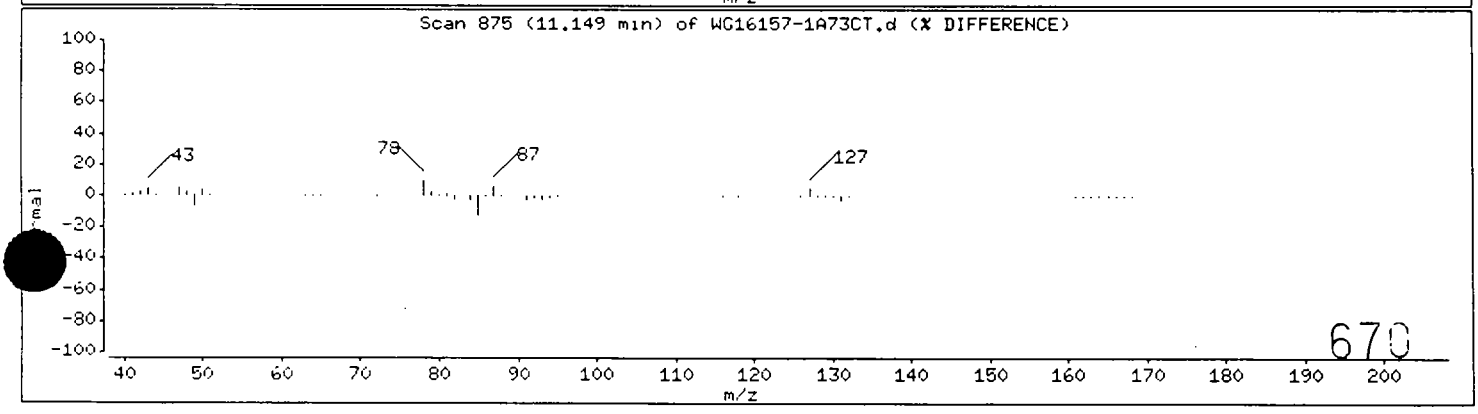
59 Bromodichloromethane

Concentration: 0.0845 ug/L









670

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKZK

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: WG16179-1

Sample wt/vol: 25 (g/ml) ML Lab File ID: WG16179-1B73

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/07/02

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-15-0	Carbon disulfide	0.5	U
67-64-1	Acetone	1	J
75-09-2	Methylene Chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-butanone	3	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
71-43-2	Benzene	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	3	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
591-78-6	2-hexanone	3	U
124-48-1	Dibromochloromethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.2	J
108-38-3	m,p-Xylene	0.8	J
95-47-6	o-Xylene	0.1	J
100-42-5	Styrene	0.5	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO

VBLKZK

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: WG16179-1

Sample wt/vol: 25 (g/ml) ML Lab File ID: WG16179-1B73

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/07/02

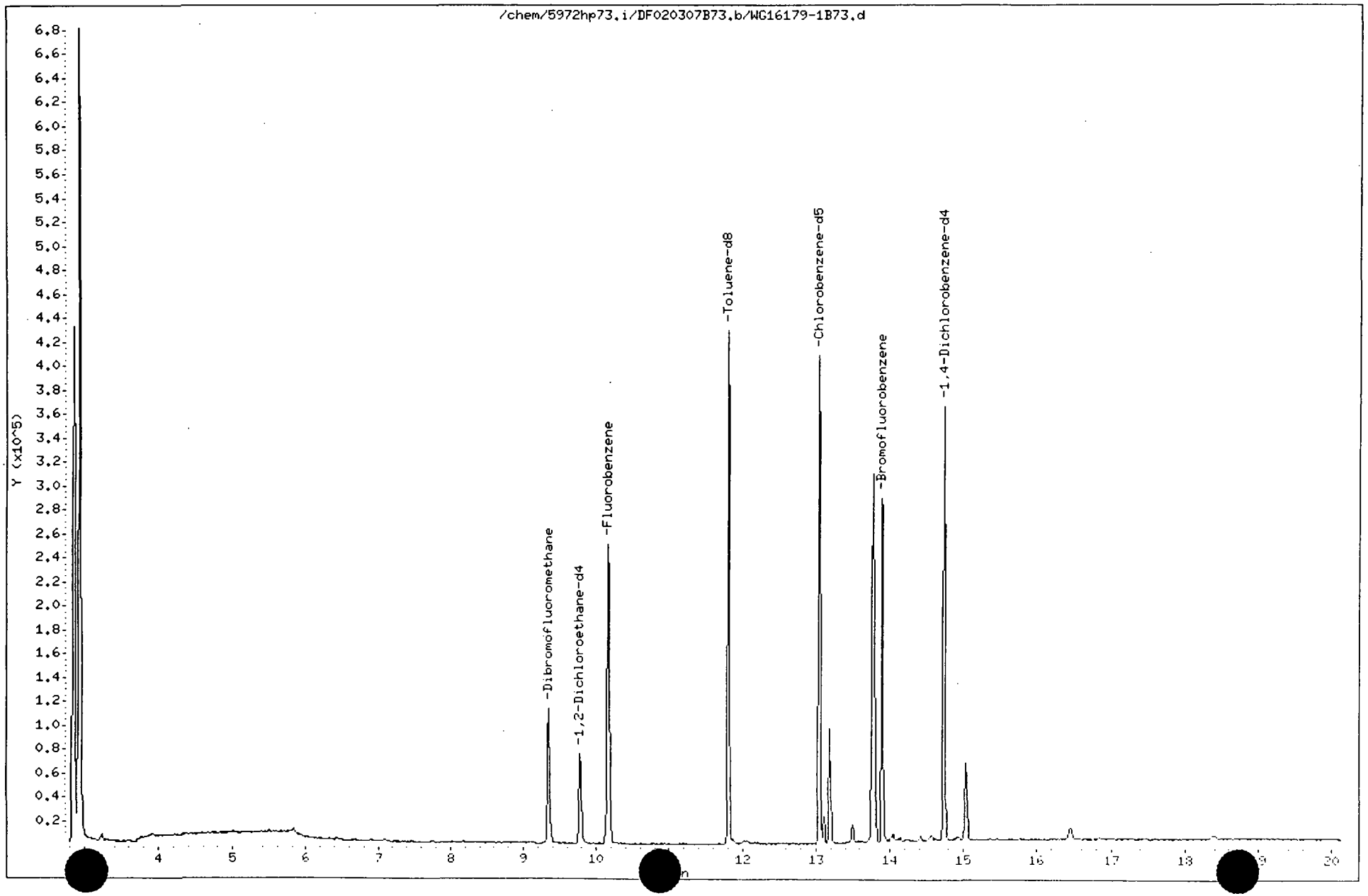
GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-25-2	Bromoform	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
1330-20-7	Xylene (total)	1	

Data File: /chem/5972hp73.i/DF020307B73.b/WG16179-1B73.d
Date : 07-MAR-2002 21:06
Client ID: VBLKZK
Sample Info:
Purge Volume: 25.0
Column phase: ZB-624

Instrument: 5972hp73.i
Operator: 2323
Column diameter: 0.32



Data File: /chem/5972hp73.i/DF020307B73.b/WG16179-1B73.d
Report Date: 08-Mar-2002 13:12

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF020307B73.b/WG16179-1B73.d
Lab Smp Id: WG16179-1 Client Smp ID: VBLKZK
Inj Date : 07-MAR-2002 21:06
Operator : 2323 Inst ID: 5972hp73.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp73.i/DF020307B73.b/W8260-B-25MLv6.m
Meth Date : 08-Mar-2002 12:06 hubbard Quant Type: ISTD
Cal Date : 22-FEB-2002 22:50 Cal File: CY020222B73.d
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL3CT.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

nd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	10.164	10.171	(1.000)	277216	125.000	
* 2 Chlorobenzene-d5	117	13.048	13.055	(1.000)	205510	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.741	14.738	(1.000)	101822	125.000	
$ 4 Dibromofluoromethane	113	9.347	9.354	(0.920)	85212	132.537	5.30
$ 5 1,2-Dichloroethane-d4	65	9.780	9.778	(0.962)	65380	119.753	4.79
$ 6 Toluene-d8	98	11.808	11.815	(0.905)	274455	133.154	5.33
$ 7 Bromofluorobenzene	95	13.894	13.902	(0.943)	97456	132.407	5.30
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
16 1,1-Dichloroethene	96	Compound Not Detected					
21 Carbon disulfide	76	Compound Not Detected.					
18 Acetone	43	6.434	6.431	(0.633)	3355	29.4501	1.18(a)
24 Methylene Chloride	84	Compound Not Detected.					
27 trans-1,2-Dichloroethene	96	Compound Not Detected.					

sdH 3/8/02

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Data File: /chem/5972hp73.i/DF020307B73.b/WG16179-1B73.d
Report Date: 08-Mar-2002 13:12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
30 1,1-Dichloroethane	63	Compound Not Detected.					
34 cis-1,2-Dichloroethene	96	Compound Not Detected.					
37 2-butanone	43	Compound Not Detected.					
42 Chloroform	83	Compound Not Detected.					
43 1,1,1-Trichloroethane	97	Compound Not Detected.					
48 Carbon Tetrachloride	117	Compound Not Detected.					
51 Benzene	78	Compound Not Detected.					
49 1,2-Dichloroethane	62	Compound Not Detected.					
53 Trichloroethene	130	Compound Not Detected.					
55 1,2-Dichloropropane	63	Compound Not Detected.					
59 Bromodichloromethane	83	Compound Not Detected.					
61 cis-1,3-Dichloropropene	75	Compound Not Detected.					
62 4-Methyl-2-pentanone	43	Compound Not Detected.					
63 Toluene	92	Compound Not Detected.					
64 trans-1,3-Dichloropropene	75	Compound Not Detected.					
65 1,1,2-Trichloroethane	97	Compound Not Detected.					
68 Tetrachloroethene	164	Compound Not Detected.					
69 2-hexanone	43	Compound Not Detected.					
70 Dibromochloromethane	129	Compound Not Detected.					
72 Chlorobenzene	112	Compound Not Detected.					
75 Ethylbenzene	106	13.117	13.114	(1.005)	4308	4.46697	0.179(a)
76 m,p-Xylene	106	13.196	13.193	(1.011)	25074	20.9054	0.836(a)
77 o-Xylene	106	13.501	13.498	(1.035)	3529	3.14560	0.126(a)
78 Styrene	104	Compound Not Detected.					
79 Bromoform	173	Compound Not Detected.					
82 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
M 107 Xylene (total)	106				28603	25.4955	1.02

QC Flag Legend

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

Data File: /chem/5972hp73.i/DF020307B73.b/WG16179-1B73.d

Date : 07-MAR-2002 21:06

Client ID: VBLKZK

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

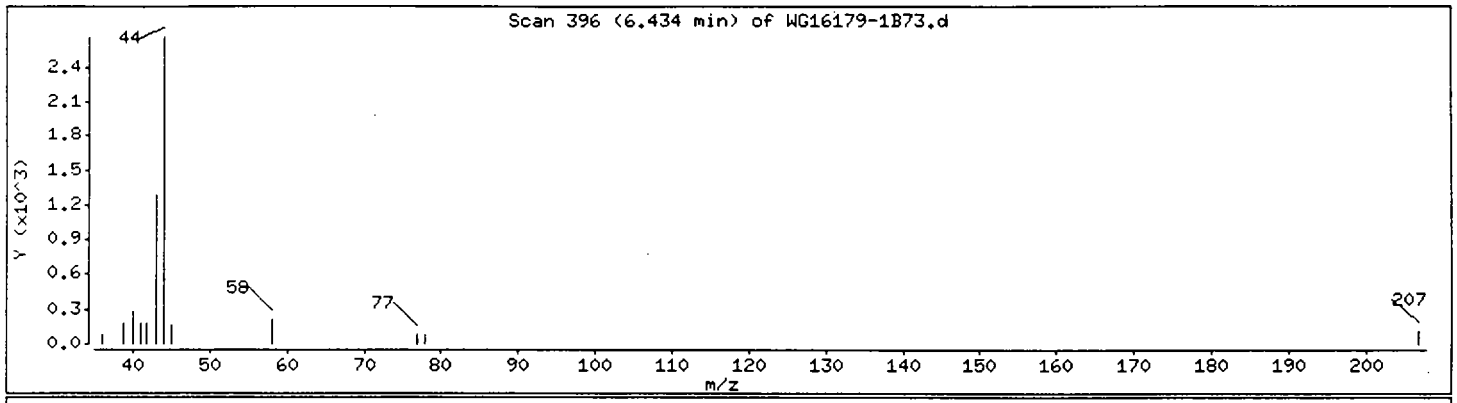
Operator: 2323

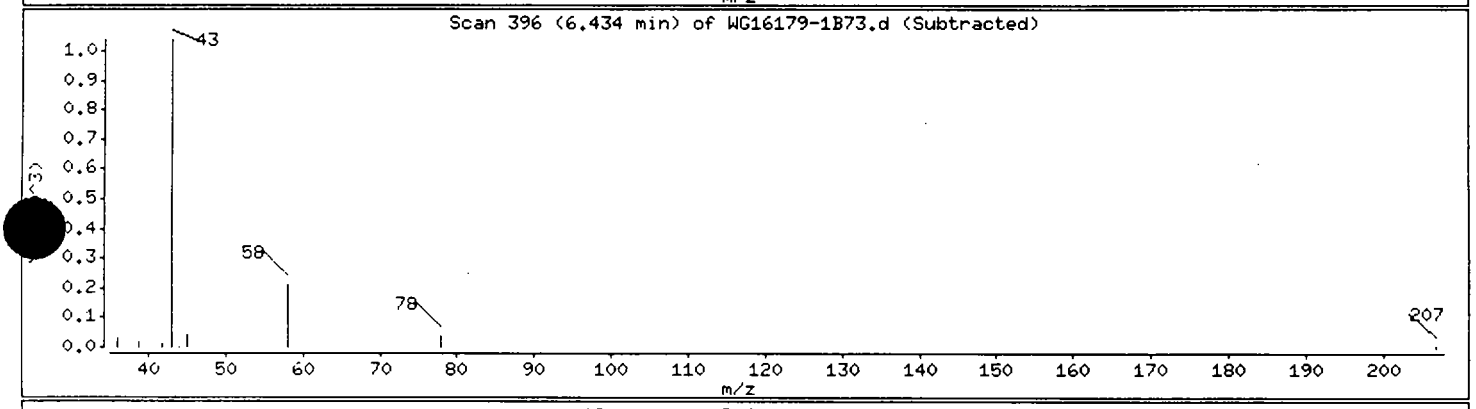
Column phase: ZB-624

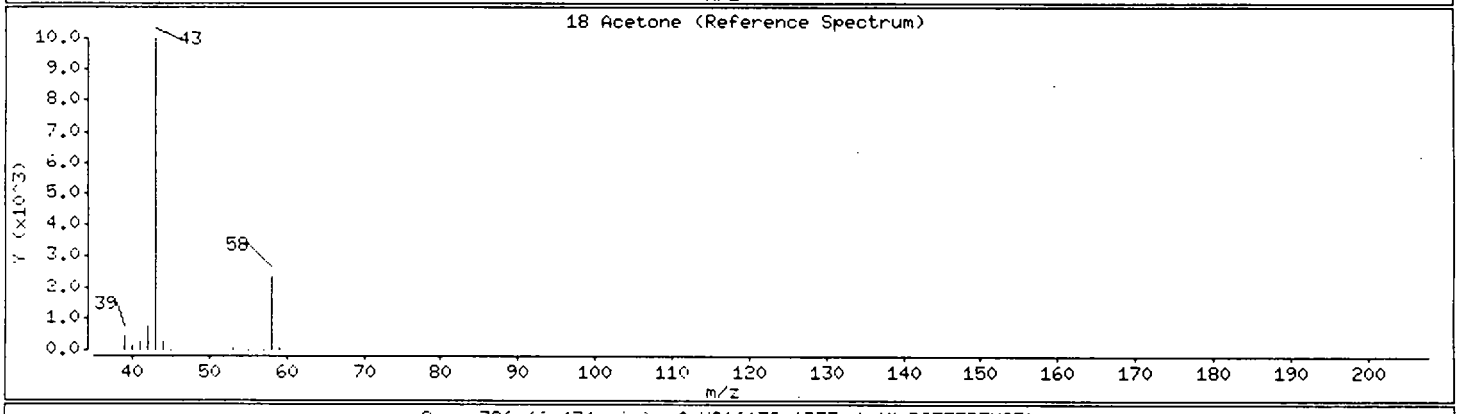
Column diameter: 0.32

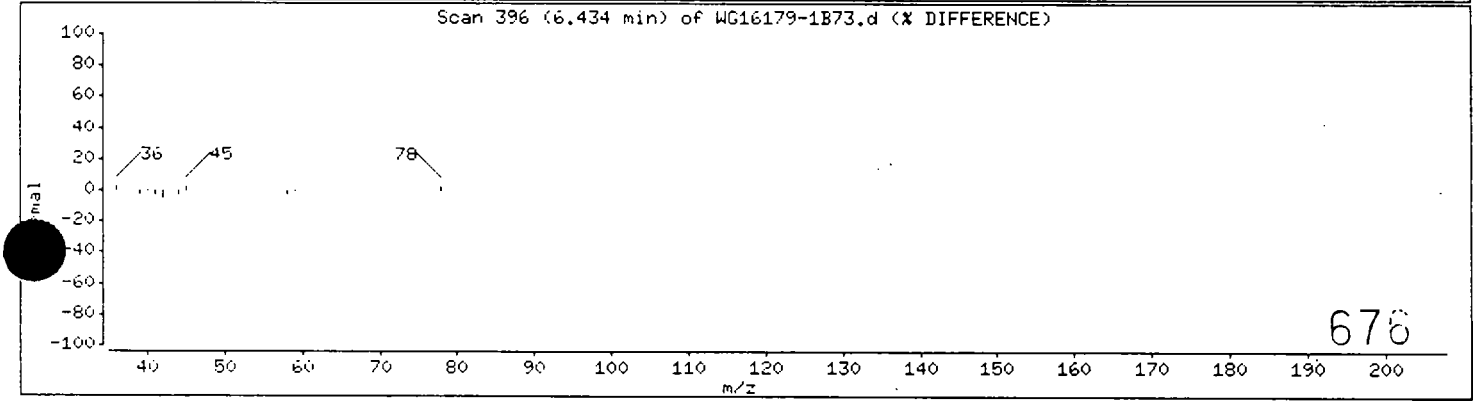
18 Acetone

Concentration: 1.18 ug/L









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Data File: /chem/5972hp73.i/DF020307B73.b/WG16179-1B73.d

Date : 07-MAR-2002 21:06

Client ID: VBLKZK

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

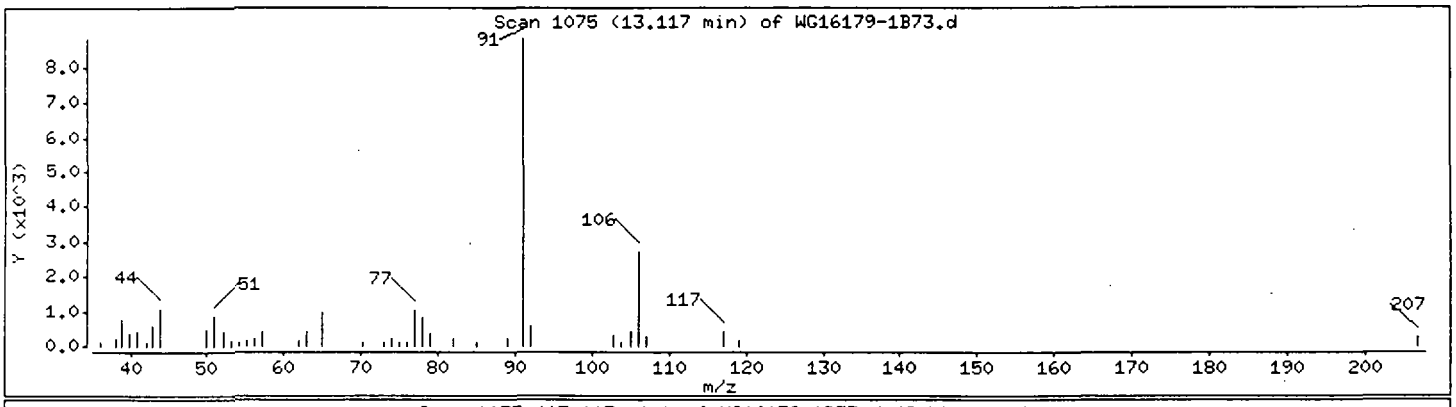
Operator: 2323

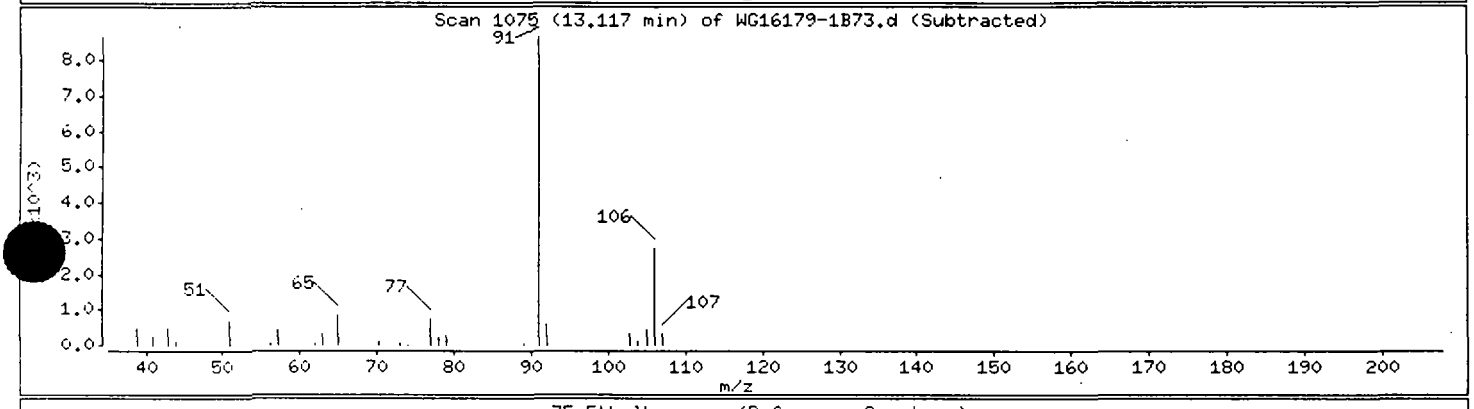
Column phase: ZB-624

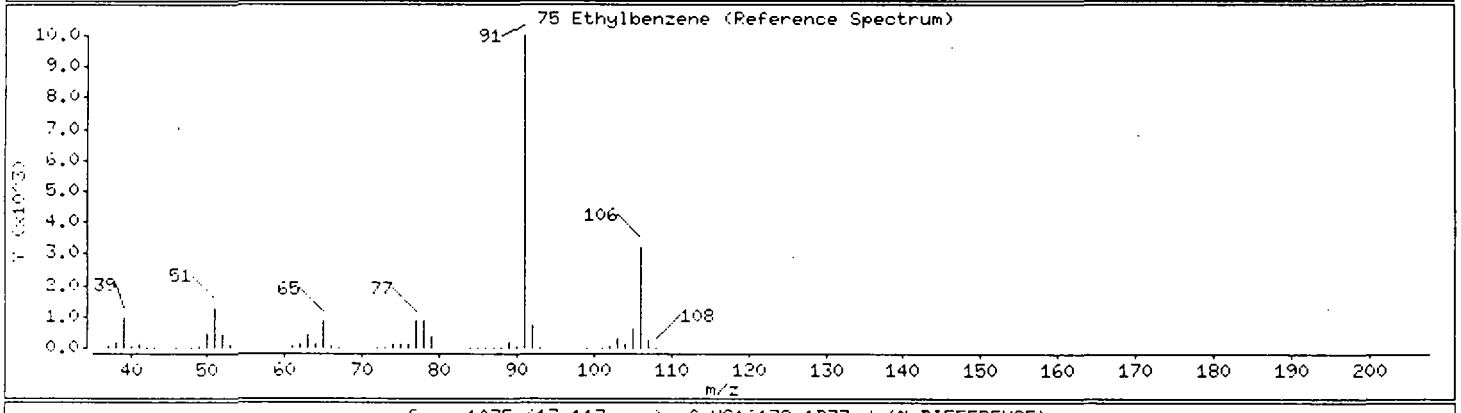
Column diameter: 0.32

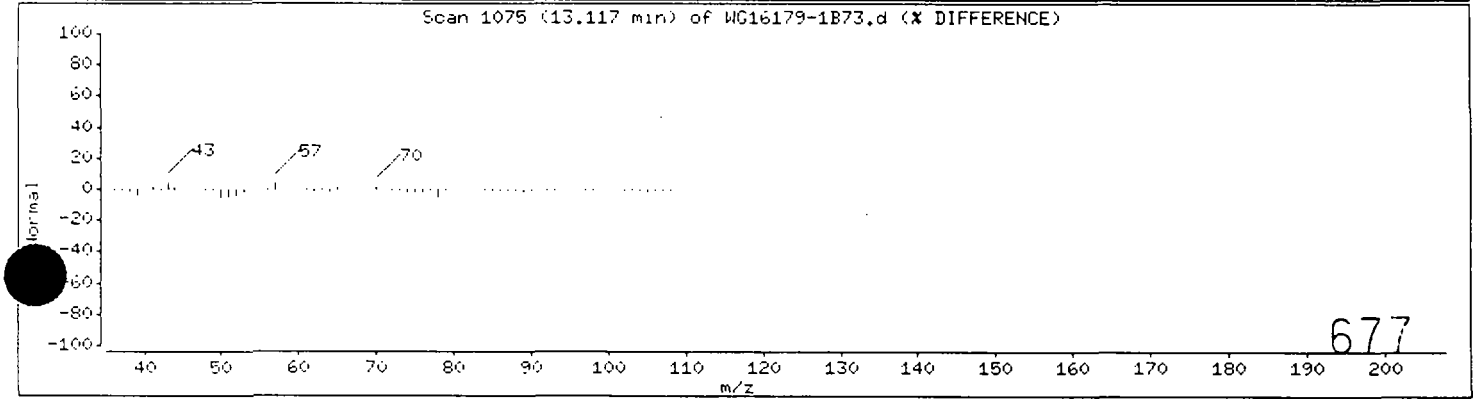
75 Ethylbenzene

Concentration: 0.179 ug/L









677

Data File: /chem/5972hp73.i/DF020307B73.b/WG16179-1B73.d

Date : 07-MAR-2002 21:06

Client ID: VBLKZK

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

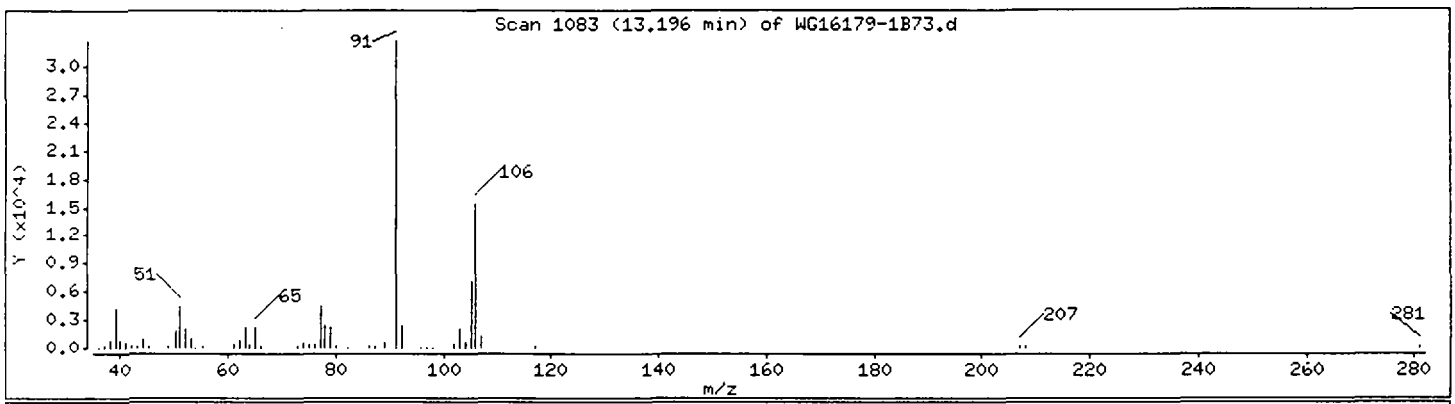
Operator: 2323

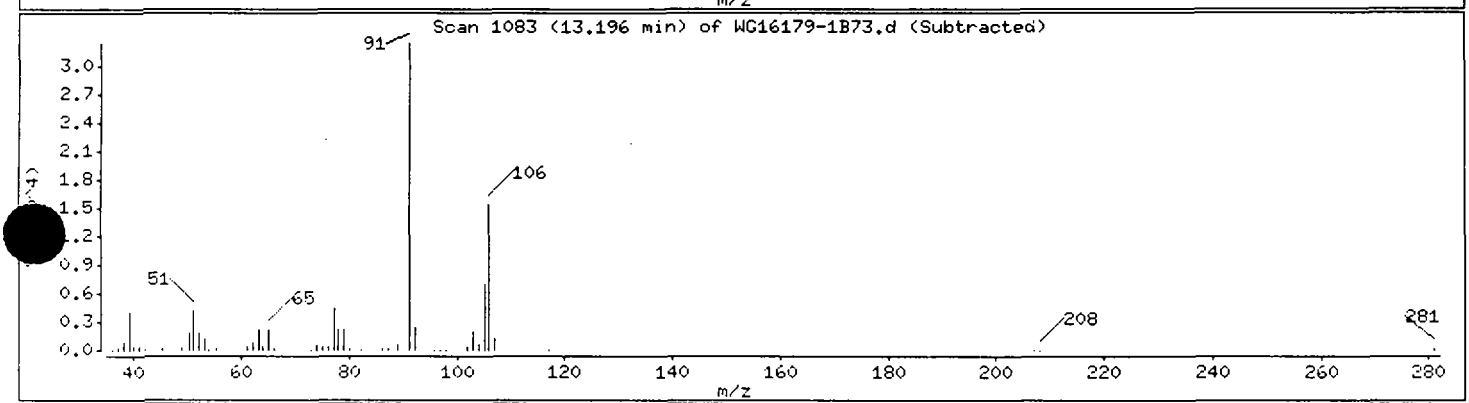
Column phase: ZB-624

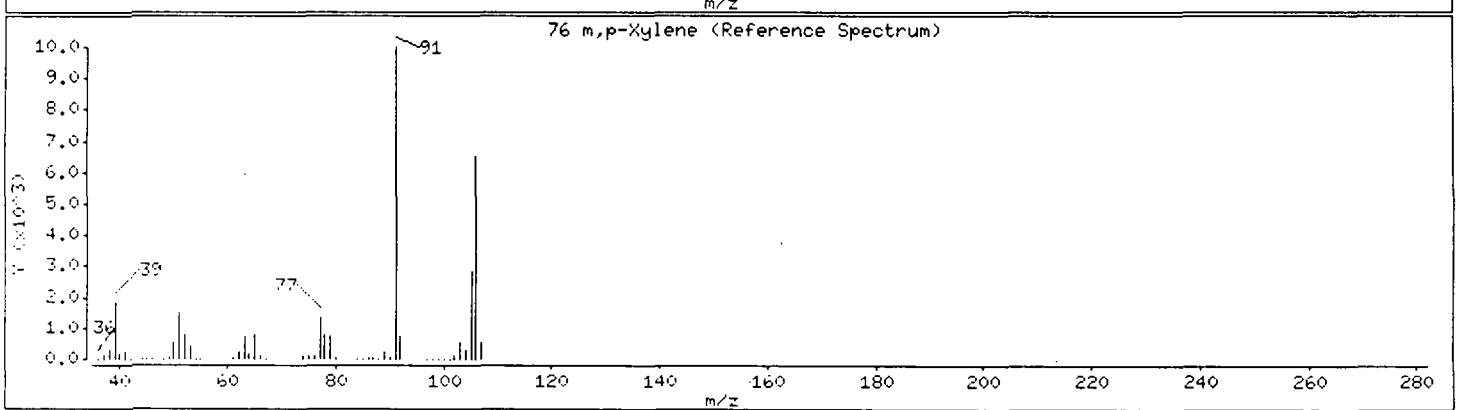
Column diameter: 0.32

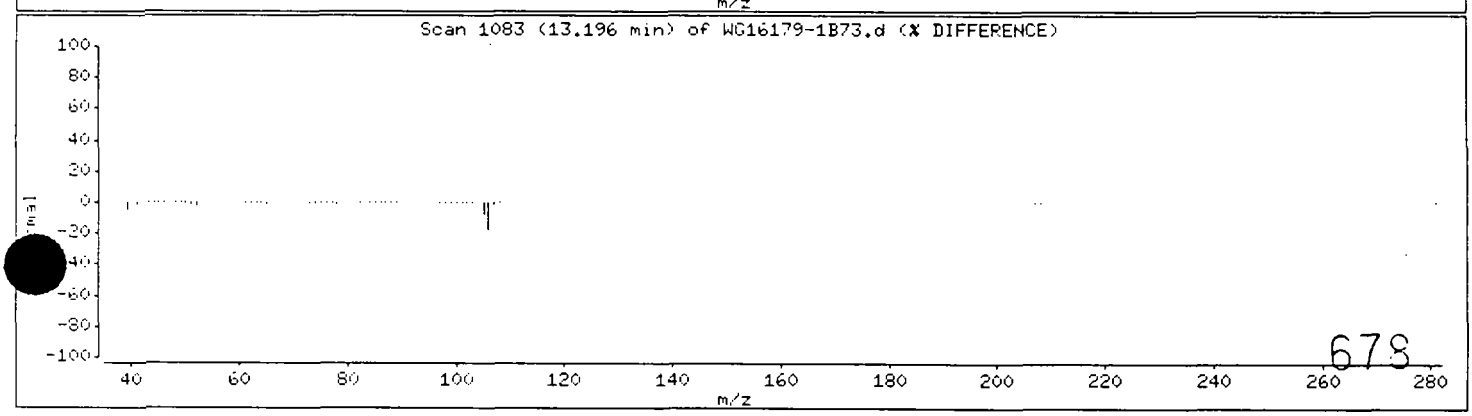
76 m,p-Xylene

Concentration: 0.836 ug/L









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Data File: /chem/5972hp73.i/DF020307B73.b/WG16179-1B73.d

Date : 07-MAR-2002 21:06

Client ID: VBLKZK

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

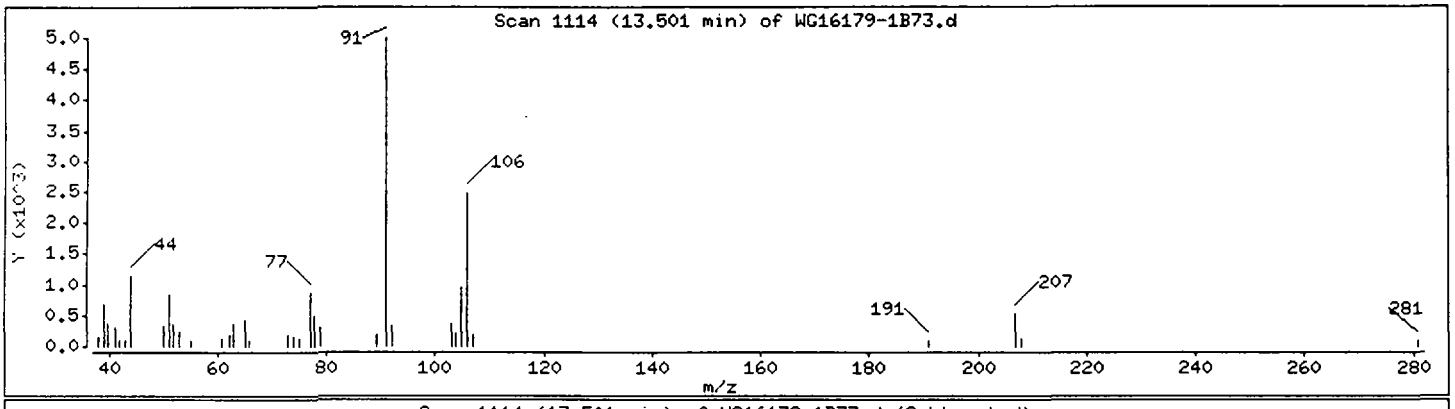
Operator: 2323

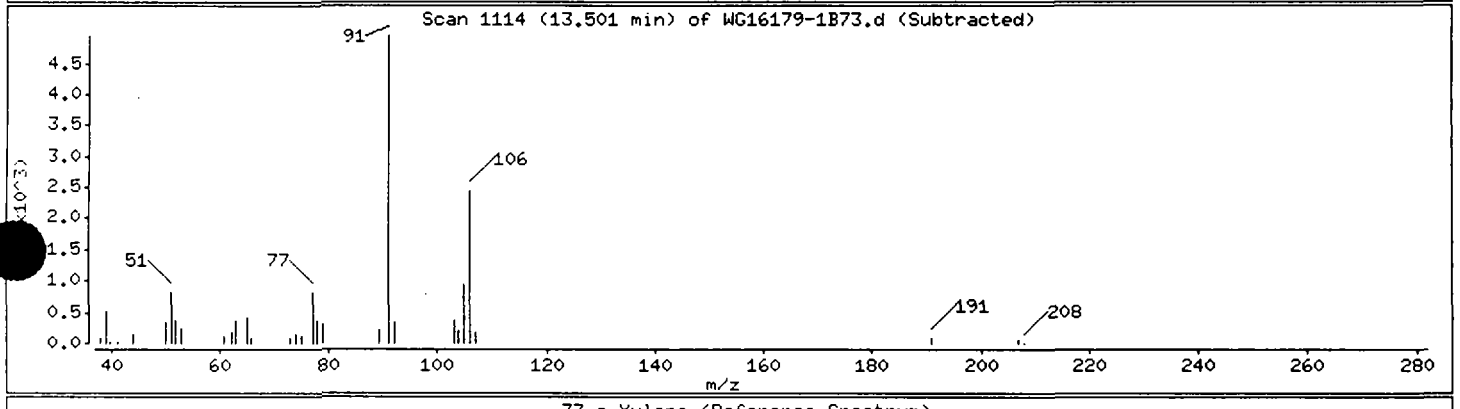
Column phase: ZB-624

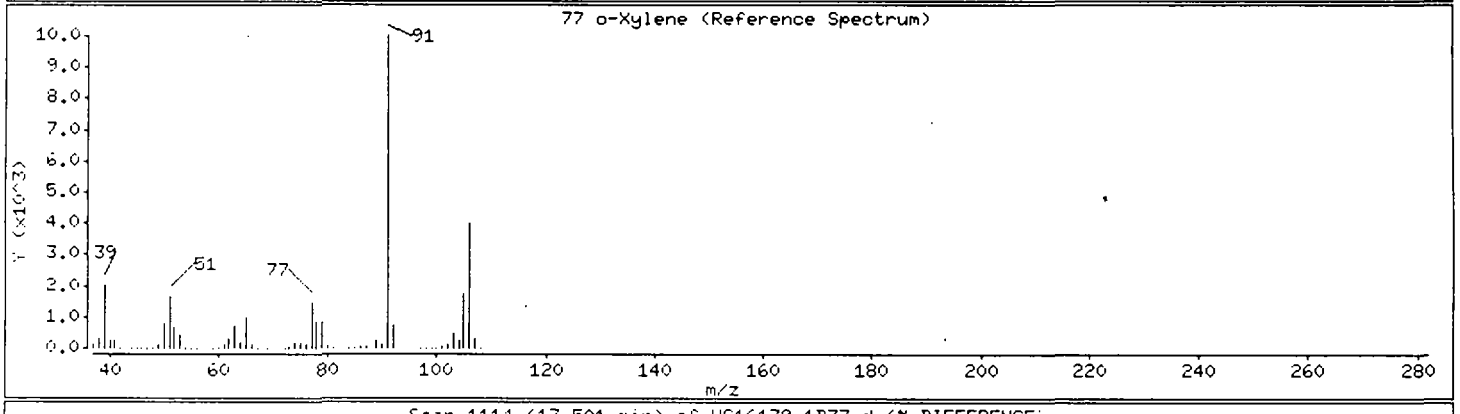
Column diameter: 0.32

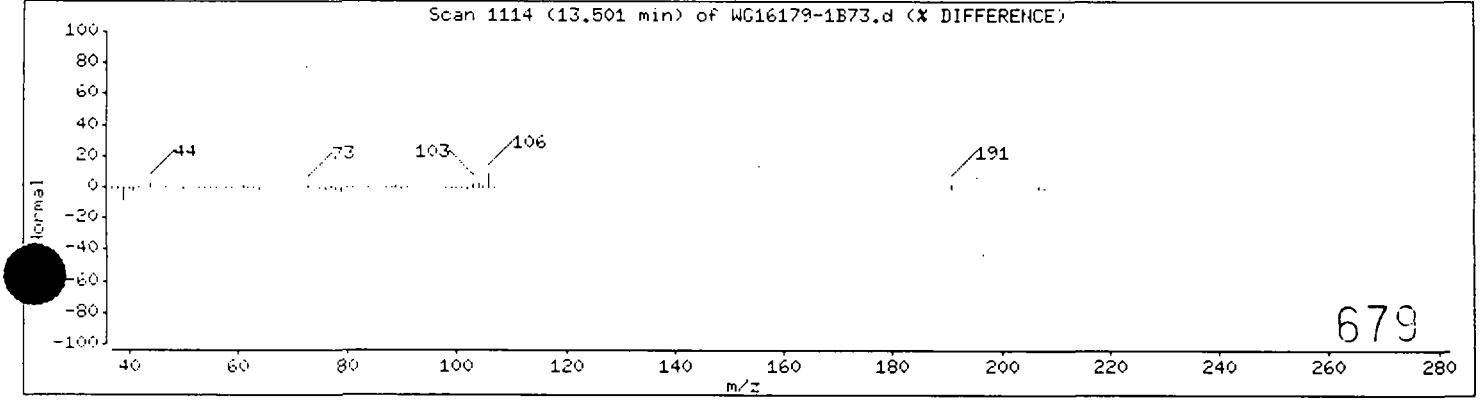
77 o-Xylene

Concentration: 0.126 ug/L









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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKWS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: WG16049-1

Sample wt/vol: 25 (g/ml) ML Lab File ID: WG16049-1A73Q

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/08/02

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-15-0	Carbon disulfide	0.5	U
67-64-1	Acetone	1	J
75-09-2	Methylene Chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-butanone	3	U
67-66-3	Chloroform	0.09	J
71-55-6	1,1,1-Trichloroethane	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
71-43-2	Benzene	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	3	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
591-78-6	2-hexanone	3	U
124-48-1	Dibromochloromethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.05	J
108-38-3	m,p-Xylene	0.2	J
95-47-6	o-Xylene	0.04	J
100-42-5	Styrene	0.5	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKWS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: WG16049-1

Sample wt/vol: 25 (g/ml) ML Lab File ID: WG16049-1A73Q

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/08/02

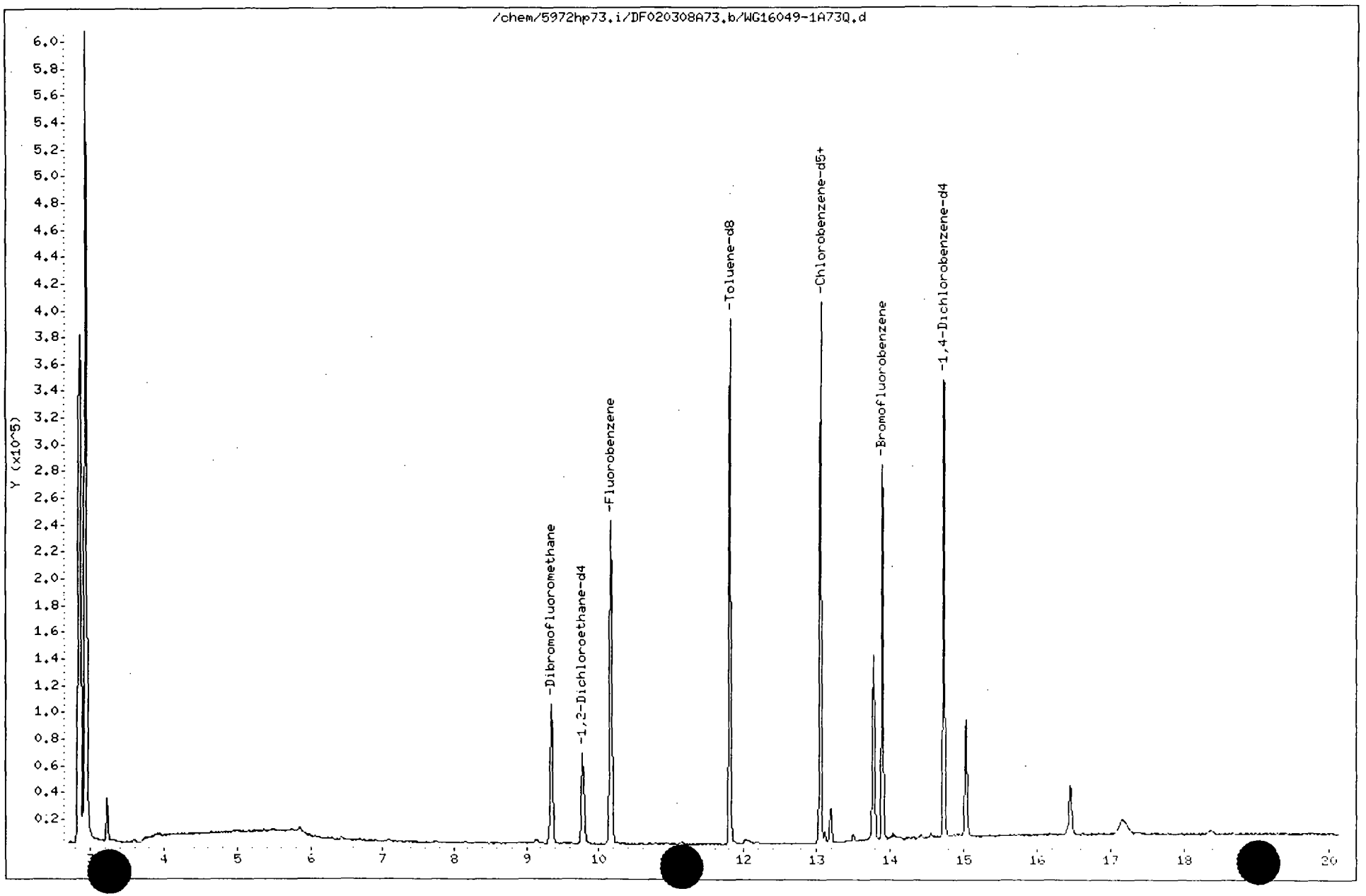
GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-25-2	Bromoform	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
1330-20-7	Xylene (total)	0.3	J

Data File: /chem/5972hp73.i/DF020308A73.b/WG16049-1A73Q.d
Date : 08-MAR-2002 09:25
Client ID: VBLKWS
Sample Info:
Purge Volume: 25.0
Column phase: ZB-624

Instrument: 5972hp73.i
Operator: 2429
Column diameter: 0.32



Data File: /chem/5972hp73.i/DF020308A73.b/WG16049-1A73Q.d
Report Date: 11-Mar-2002 11:59

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF020308A73.b/WG16049-1A73Q.d
Lab Smp Id: WG16049-1 Client Smp ID: VBLKWS
Inj Date : 08-MAR-2002 09:25
Operator : 2429 Inst ID: 5972hp73.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp73.i/DF020308A73.b/W8260-B-25MLv6.m
Meth Date : 11-Mar-2002 10:33 curtis Quant Type: ISTD
Cal Date : 22-FEB-2002 22:50 Cal File: CY020222B73.d
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL3CT.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	10.162	10.164	(1.000)	274588	125.000	
* 2 Chlorobenzene-d5	117	13.046	13.048	(1.000)	204084	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.739	14.731	(1.000)	101375	125.000	
$ 4 Dibromofluoromethane	113	9.345	9.347	(0.920)	79451	124.759	4.99
$ 5 1,2-Dichloroethane-d4	65	9.778	9.770	(0.962)	59131	109.343	4.37
$ 6 Toluene-d8	98	11.806	11.808	(0.905)	254406	124.290	4.97
$ 7 Bromofluorobenzene	95	13.892	13.894	(0.943)	92061	125.628	5.03
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
16 1,1-Dichloroethene	96	Compound Not Detected.					
21 Carbon disulfide	76	Compound Not Detected.					
18 Acetone	43	6.432	6.424	(0.633)	3220	28.5355	1.14(a)
24 Methylene Chloride	84	Compound Not Detected.					
27 trans-1,2-Dichloroethene	96	Compound Not Detected.					

3/11/2

Data File: /chem/5972hp73.i/DF020308A73.b/WG16049-1A73Q.d
Report Date: 11-Mar-2002 11:59

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
30 1,1-Dichloroethane	63	Compound Not Detected.					
34 cis-1,2-Dichloroethene	96	Compound Not Detected.					
37 2-butanone	43	Compound Not Detected.					
42 Chloroform	83	9.148	9.140	(0.900)	3132	2.21044	0.0884(a)
43 1,1,1-Trichloroethane	97	Compound Not Detected.					
48 Carbon Tetrachloride	117	Compound Not Detected.					
51 Benzene	78	Compound Not Detected.					
49 1,2-Dichloroethane	62	Compound Not Detected.					
53 Trichloroethene	130	Compound Not Detected.					
55 1,2-Dichloropropane	63	Compound Not Detected.					
59 Bromodichloromethane	83	Compound Not Detected.					
61 cis-1,3-Dichloropropene	75	Compound Not Detected.					
62 4-Methyl-2-pentanone	43	Compound Not Detected.					
63 Toluene	92	Compound Not Detected.					
64 trans-1,3-Dichloropropene	75	Compound Not Detected.					
65 1,1,2-Trichloroethane	97	Compound Not Detected.					
68 Tetrachloroethene	164	Compound Not Detected.					
69 2-hexanone	43	Compound Not Detected.					
70 Dibromochloromethane	129	Compound Not Detected.					
72 Chlorobenzene	112	Compound Not Detected.					
75 Ethylbenzene	106	13.115	13.107	(1.005)	1260	1.31562	0.0526(a)
76 m,p-Xylene	106	13.193	13.195	(1.011)	7270	6.10370	0.244(a)
77 o-Xylene	106	13.498	13.501	(1.035)	1047	0.93977	0.0376(a)
78 Styrene	104	Compound Not Detected.					
79 Bromoform	173	Compound Not Detected.					
[illegible] 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
M 107 Xylene (total)	106				8317	7.46521	0.299(a)

QC Flag Legend

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

Data File: /chem/5972hp73.i/DF020308A73.b/WG16049-1A73Q.d

Date : 08-MAR-2002 09:25

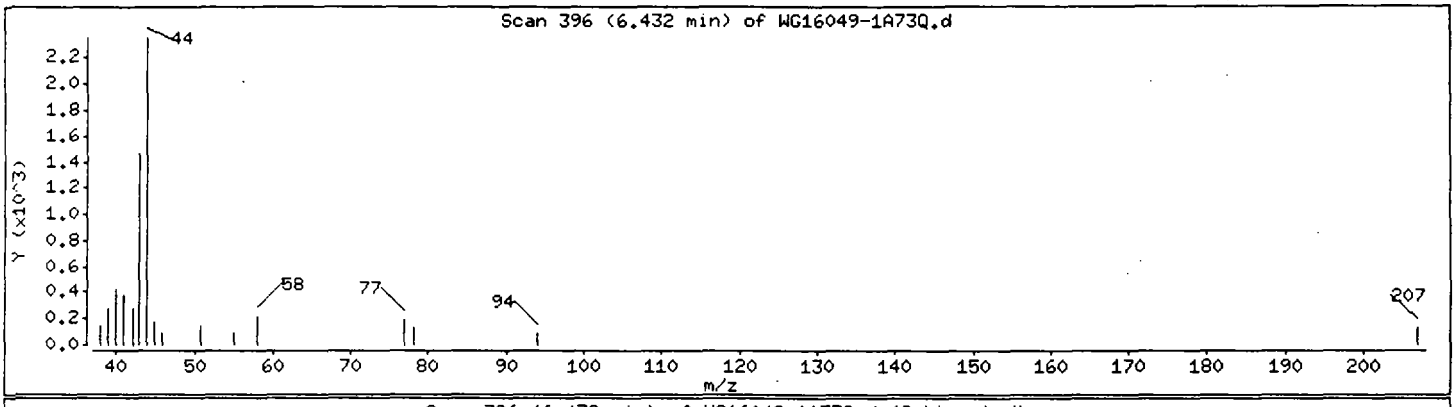
Client ID: VBLKWS | Instrument: 5972hp73.i

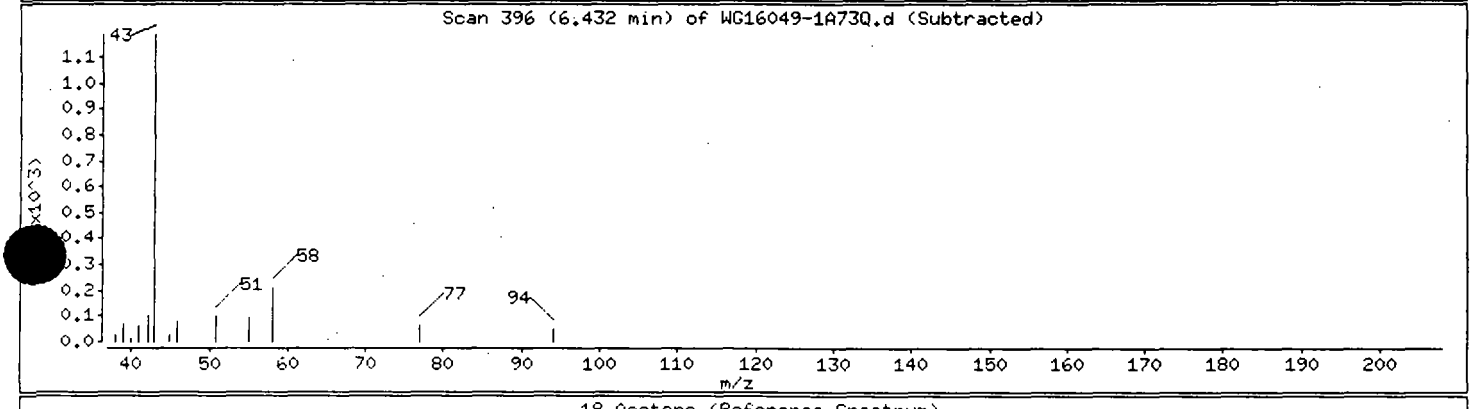
Sample Info:

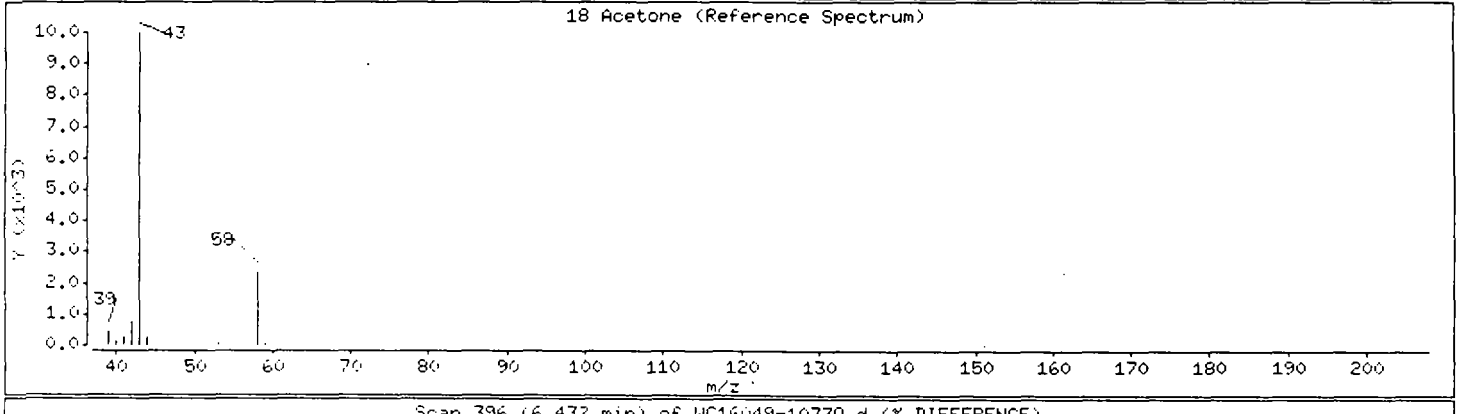
Purge Volume: 25.0 | Operator: 2429

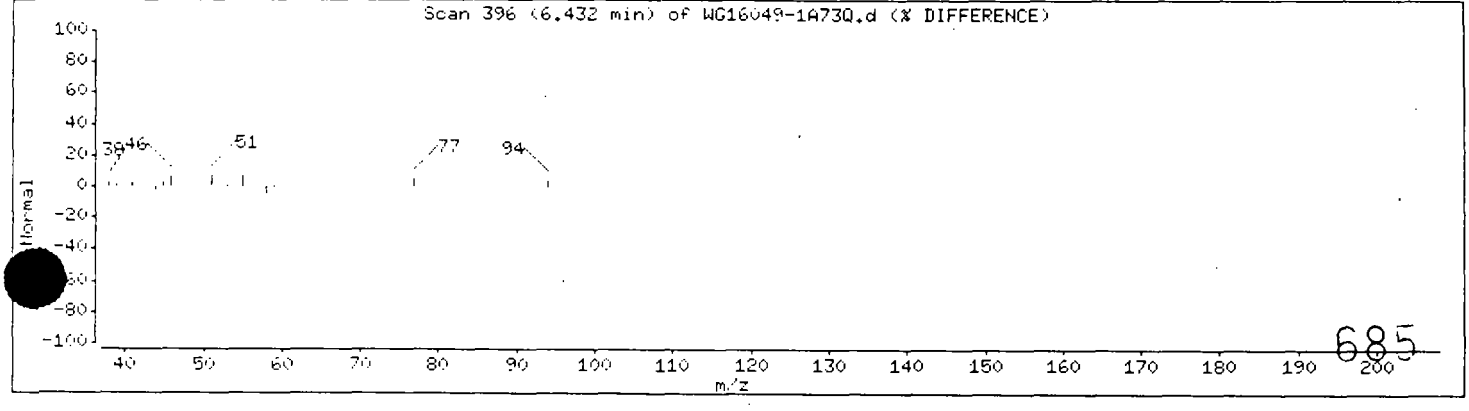
Column phase: ZB-624 | Column diameter: 0.32

18 Acetone | Concentration: 1.14 ug/L









Data File: /chem/5972hp73.i/DF020308A73.b/WG16049-1A73Q.d

Date : 08-MAR-2002 09:25

Client ID: VBLKWS

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

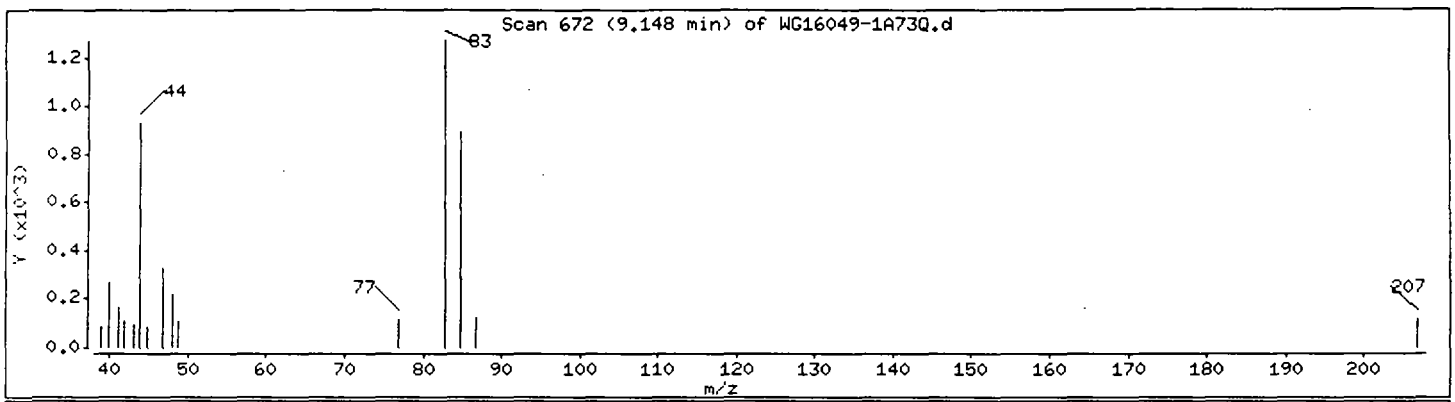
Operator: 2429

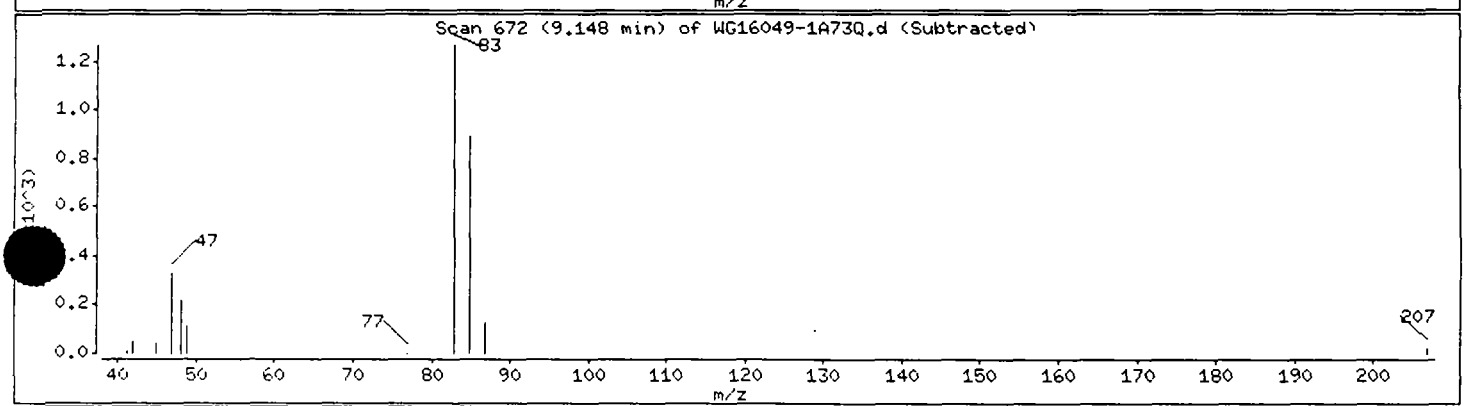
Column phase: ZB-624

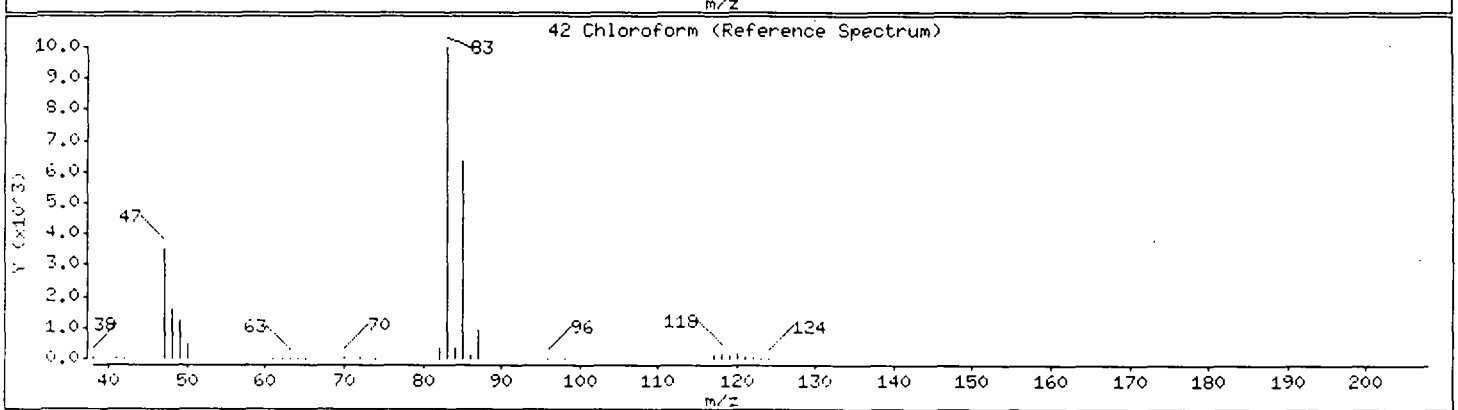
Column diameter: 0.32

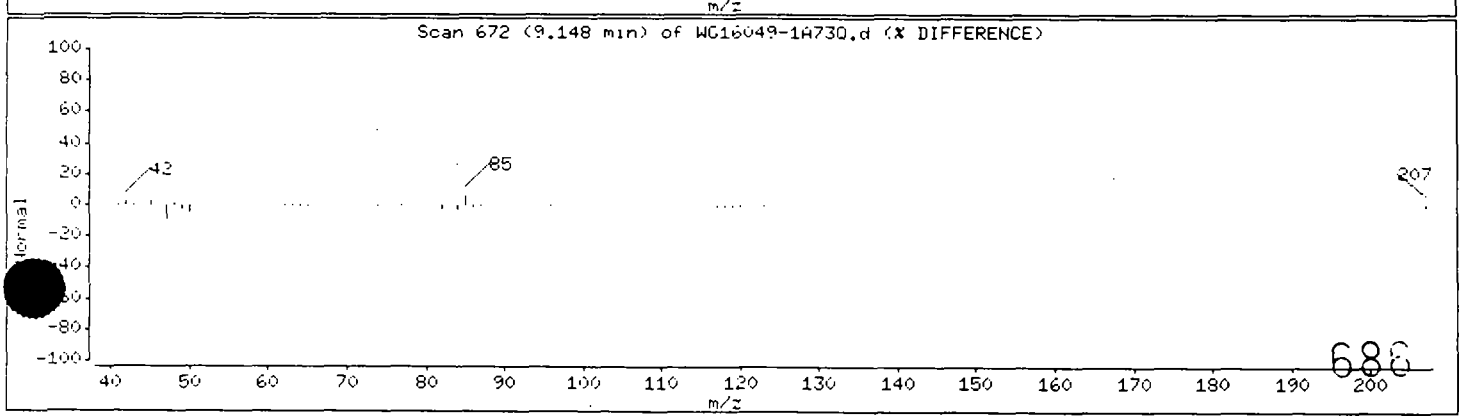
42 Chloroform

Concentration: 0.0884 ug/L









686

Data File: /chem/5972hp73.i/DF020308A73.b/WG16049-1A73Q.d

Date : 08-MAR-2002 09:25

Client ID: VBLKWS

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

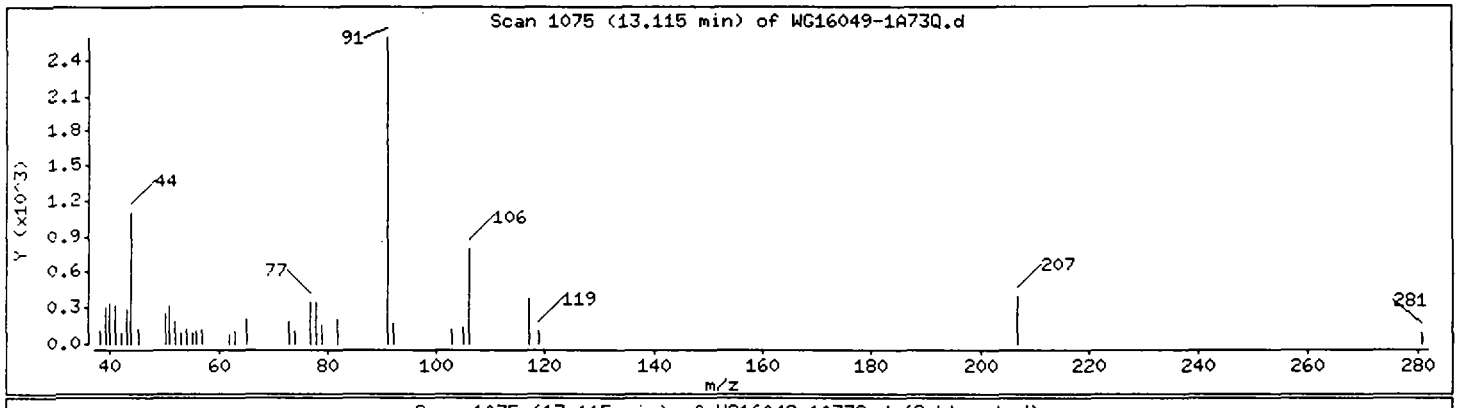
Operator: 2429

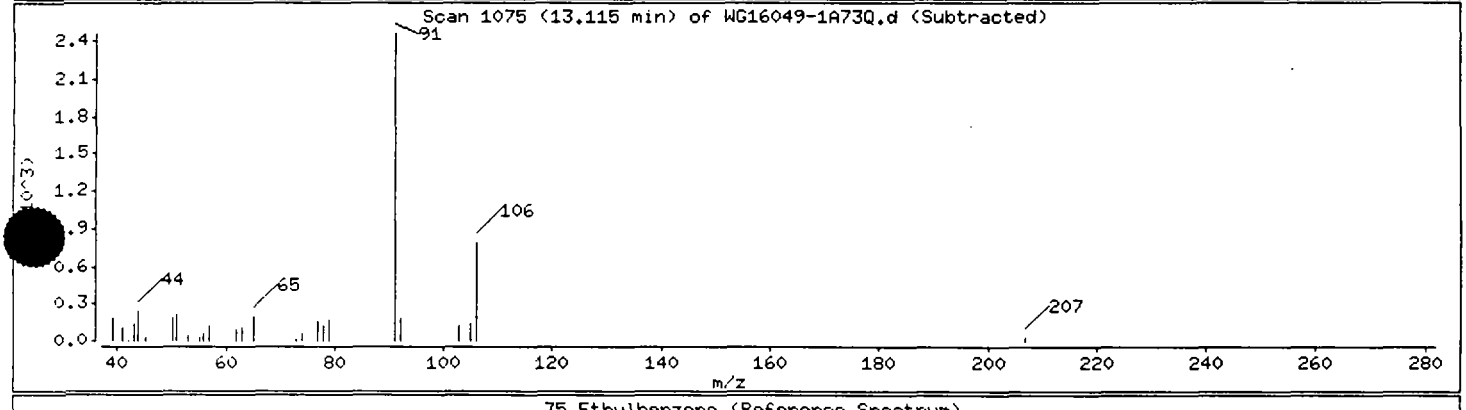
Column phase: ZB-624

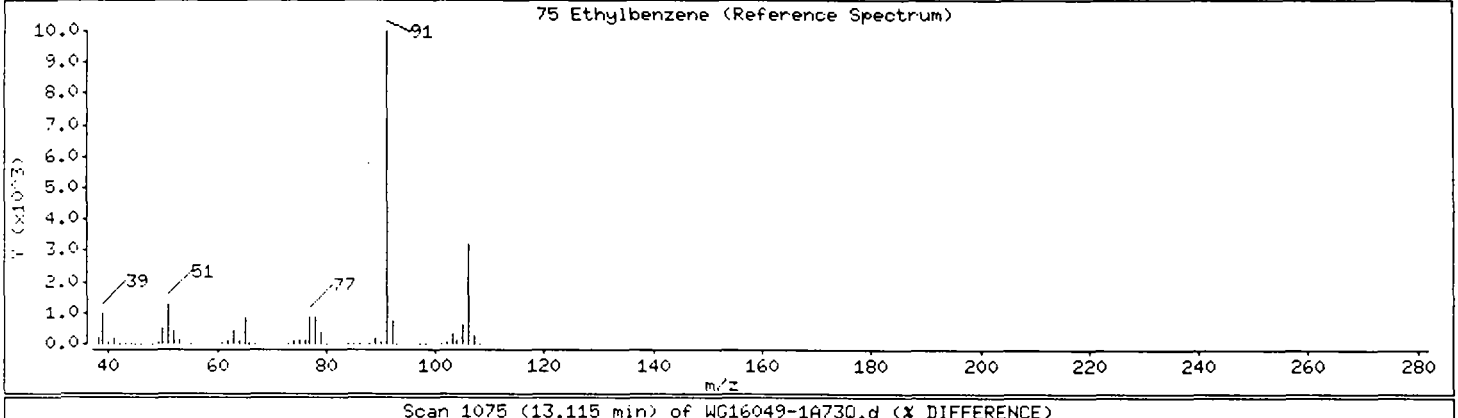
Column diameter: 0.32

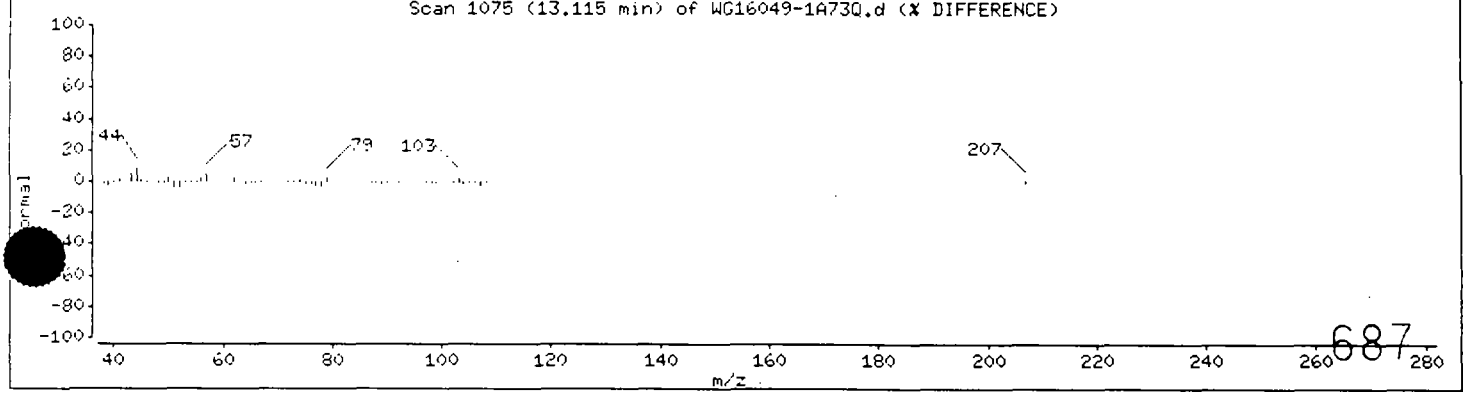
75 Ethylbenzene

Concentration: 0.0526 ug/L









Data File: /chem/5972hp73.i/DF020308A73.b/WG16049-1A73Q.d

Date : 08-MAR-2002 09:25

Client ID: VBLKWS

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

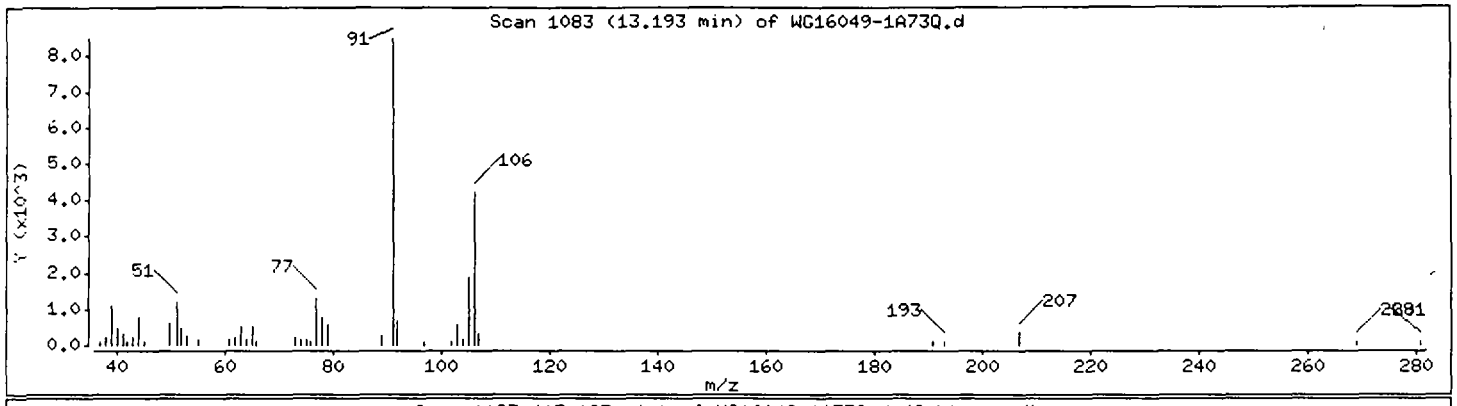
Operator: 2429

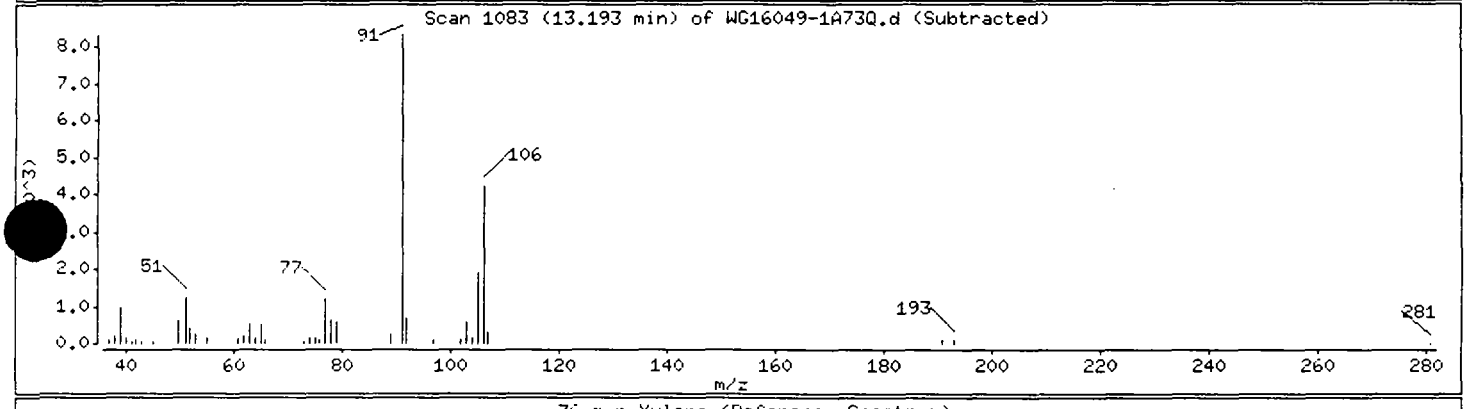
Column phase: ZB-624

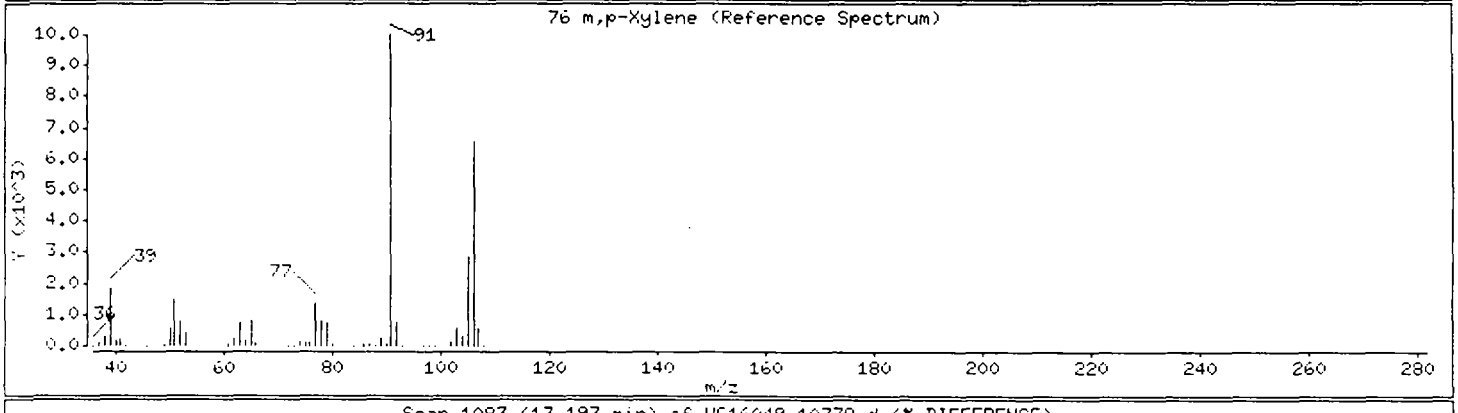
Column diameter: 0.32

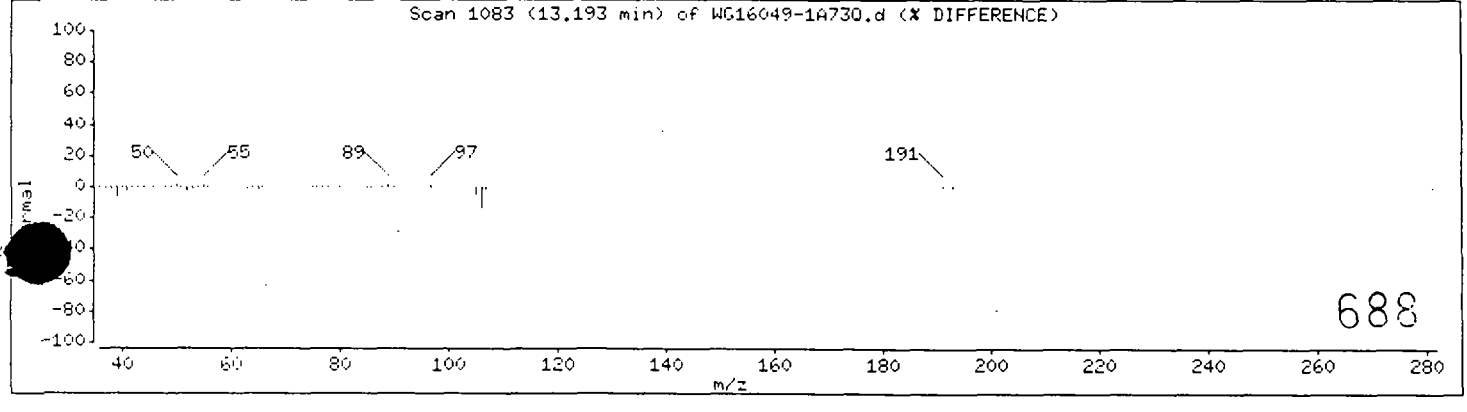
76 m,p-Xylene

Concentration: 0.244 ug/L









688

Data File: /chem/5972hp73.i/DF020308A73.b/WG16049-1A73Q.d

Date : 08-MAR-2002 09:25

Client ID: VBLKWS

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

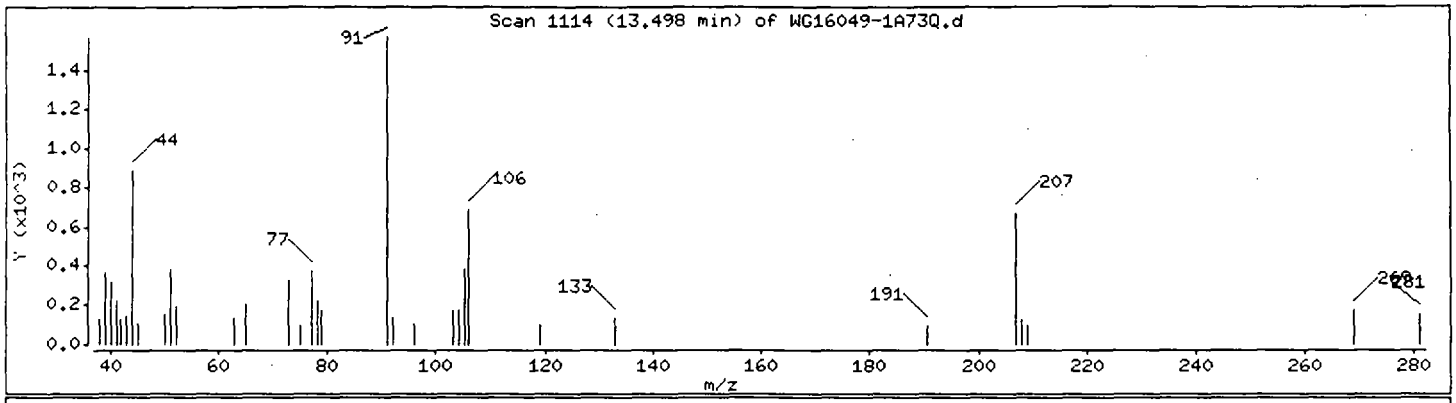
Operator: 2429

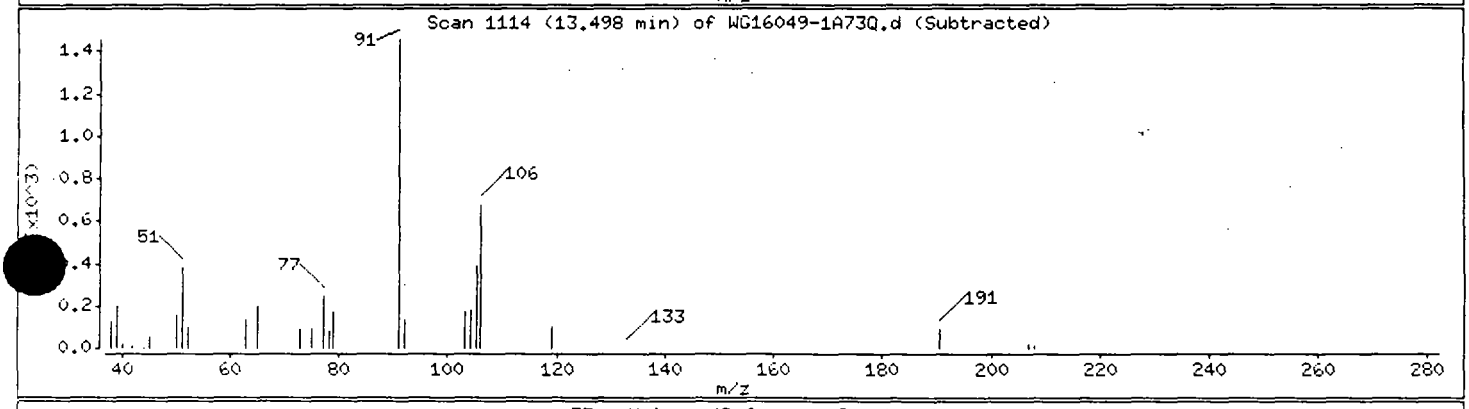
Column phase: ZB-624

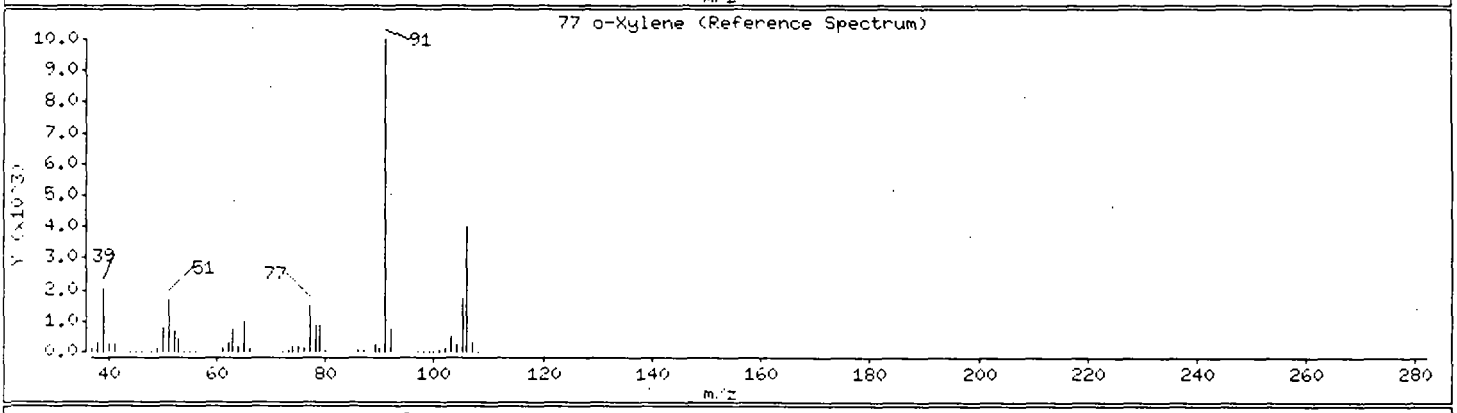
Column diameter: 0.32

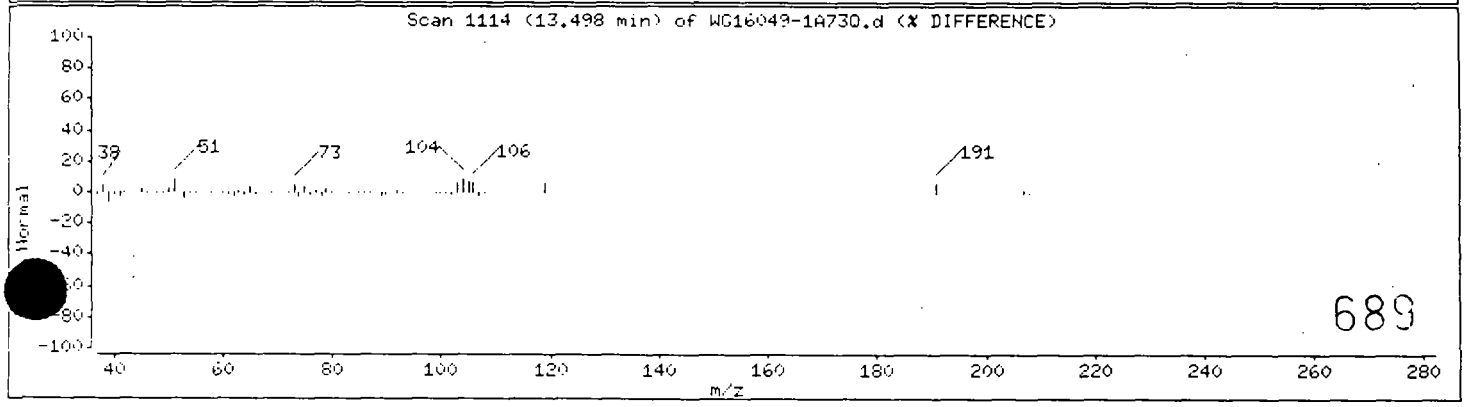
77 o-Xylene

Concentration: 0.0376 ug/L









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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKAX

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: WG16249-1

Sample wt/vol: 25 (g/ml) ML Lab File ID: WG16249-1A73CT

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/13/02

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-15-0	Carbon disulfide	0.5	U
67-64-1	Acetone	1	J
75-09-2	Methylene Chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-butanone	3	U
67-66-3	Chloroform	0.1	J
71-55-6	1,1,1-Trichloroethane	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
71-43-2	Benzene	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.1	J
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	3	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
591-78-6	2-hexanone	3	U
124-48-1	Dibromochloromethane	0.04	J
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.03	J
108-38-3	m,p-Xylene	0.1	J
95-47-6	o-Xylene	0.5	U
100-42-5	Styrene	0.5	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKAX

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: WG16249-1

Sample wt/vol: 25 (g/ml) ML Lab File ID: WG16249-1A73CT

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/13/02

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

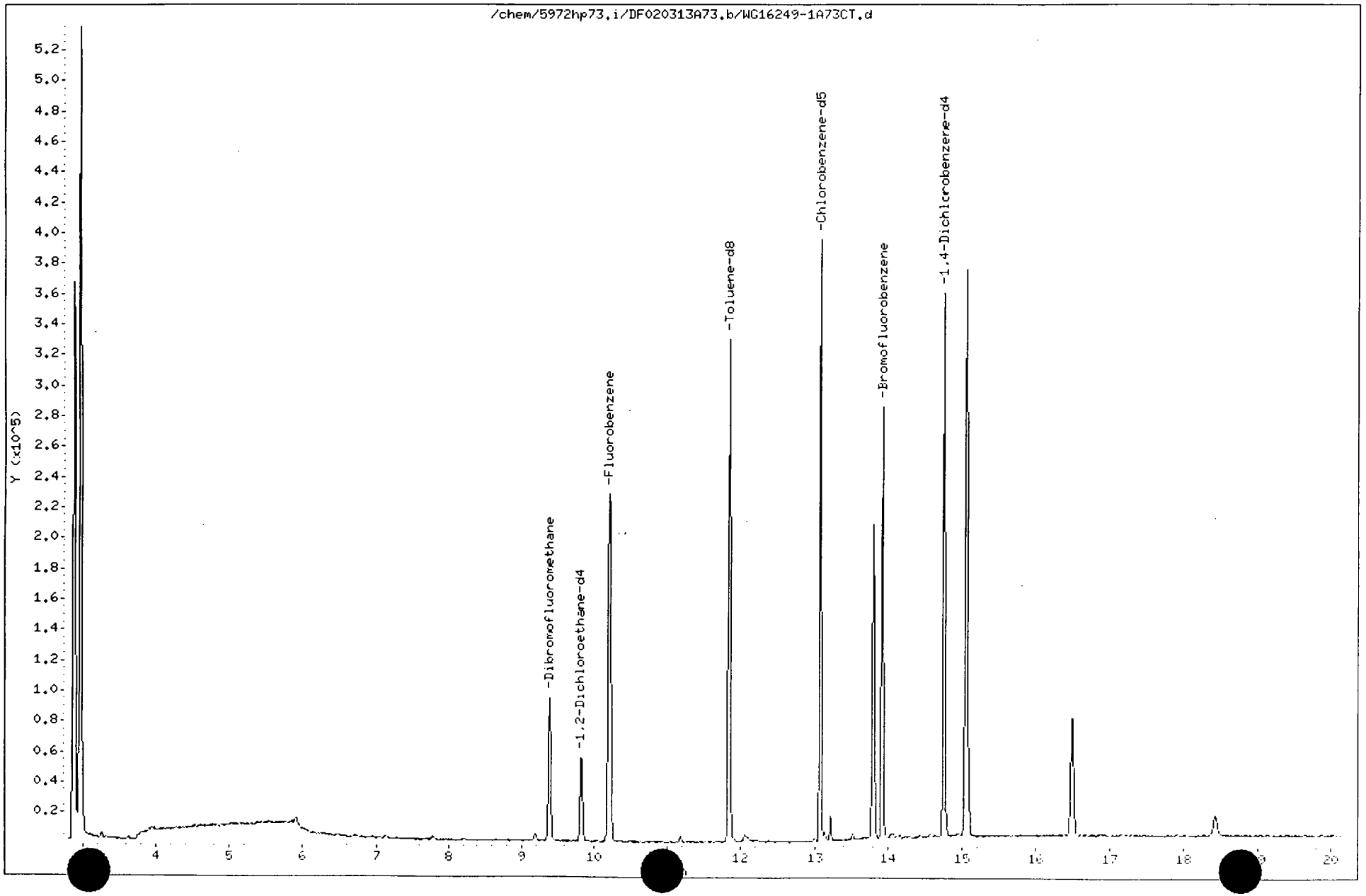
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-25-2	Bromoform	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
1330-20-7	Xylene (total)	0.1	J

Data File: /chem/5972hp73.i/DF020313A73.b/WG16249-1A73CT.d
Date : 13-MAR-2002 10:51
Client ID: VBLKAX
Sample Info:
Purge Volume: 25.0
Column phase: ZB-624

Instrument: 5972hp73.i

Operator: 2429
Column diameter: 0.32



Data File: /chem/5972hp73.i/DF020313A73.b/WG16249-1A73CT.d
Report Date: 18-Mar-2002 13:16

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF020313A73.b/WG16249-1A73CT.d
Lab Smp Id: WG16249-1 Client Smp ID: VBLKAX
Inj Date : 13-MAR-2002 10:51
Operator : 2429 Inst ID: 5972hp73.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp73.i/DF020313A73.b/W8260-B-25MLv6.m
Meth Date : 18-Mar-2002 11:19 mead Quant Type: ISTD
Cal Date : 22-FEB-2002 22:50 Cal File: CY020222B73.d
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL3CT.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	10.203	10.202	(1.000)	265161	125.000	
* 2 Chlorobenzene-d5	117	13.077	13.076	(1.000)	199002	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.760	14.759	(1.000)	99272	125.000	
4 Dibromofluoromethane	113	9.366	9.365	(0.920)	72090	117.225	4.69
5 1,2-Dichloroethane-d4	65	9.819	9.819	(0.962)	51100	97.8521	3.91
6 Toluene-d8	98	11.837	11.836	(0.996)	222019	111.237	4.45
7 Bromofluorobenzene	95	13.923	13.923	(1.043)	87141	121.434	4.86
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 1,1-Dichloroethene	96	Compound Not Detected.					
21 Carbon disulfide	76	Compound Not Detected.					
14 Acetone	43	6.482	6.472	(0.486)	2953	27.0998	1.08(a)
24 Methylene Chloride	84	Compound Not Detected.					
17 trans-1,2-Dichloroethene	96	Compound Not Detected.					

Rmm 3/18/2

Data File: /chem/5972hp73.i/DF020313A73.b/WG16249-1A73CT.d
Report Date: 18-Mar-2002 13:16

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
30 1,1-Dichloroethane	63	Compound Not Detected.					
34 cis-1,2-Dichloroethene	96	Compound Not Detected.					
37 2-butanone	43	Compound Not Detected.					
42 Chloroform	83	9.189	9.189	(0.901)	4197	3.06738	0.123(a)
43 1,1,1-Trichloroethane	97	Compound Not Detected.					
48 Carbon Tetrachloride	117	Compound Not Detected.					
51 Benzene	78	Compound Not Detected.					
49 1,2-Dichloroethane	62	Compound Not Detected.					
53 Trichloroethene	130	Compound Not Detected.					
55 1,2-Dichloropropane	63	Compound Not Detected.					
59 Bromodichloromethane	83	11.187	11.177	(1.096)	2666	3.07085	0.123(a)
61 cis-1,3-Dichloropropene	75	Compound Not Detected.					
62 4-Methyl-2-pentanone	43	Compound Not Detected.					
63 Toluene	92	Compound Not Detected.					
64 trans-1,3-Dichloropropene	75	Compound Not Detected.					
65 1,1,2-Trichloroethane	97	Compound Not Detected.					
68 Tetrachloroethene	164	Compound Not Detected.					
69 2-hexanone	43	Compound Not Detected.					
70 Dibromochloromethane	129	12.634	12.633	(0.966)	461	0.88149	0.0353(a)
72 Chlorobenzene	112	Compound Not Detected.					
75 Ethylbenzene	106	13.136	13.135	(1.004)	754	0.80739	0.0323(a)
76 m,p-Xylene	106	13.215	13.214	(1.011)	4050	3.48711	0.139(a)
77 o-Xylene	106	Compound Not Detected.					
78 Styrene	104	Compound Not Detected.					
[illegible] Bromoform	173	Compound Not Detected.					
82 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
M 107 Xylene (total)	106				4050	3.72805	0.149(a)

QC Flag Legend

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

Data File: /chem/5972hp73.i/DF020313A73.b/WG16249-1A73CT.d

Date : 13-MAR-2002 10:51

Client ID: VBLKAX

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

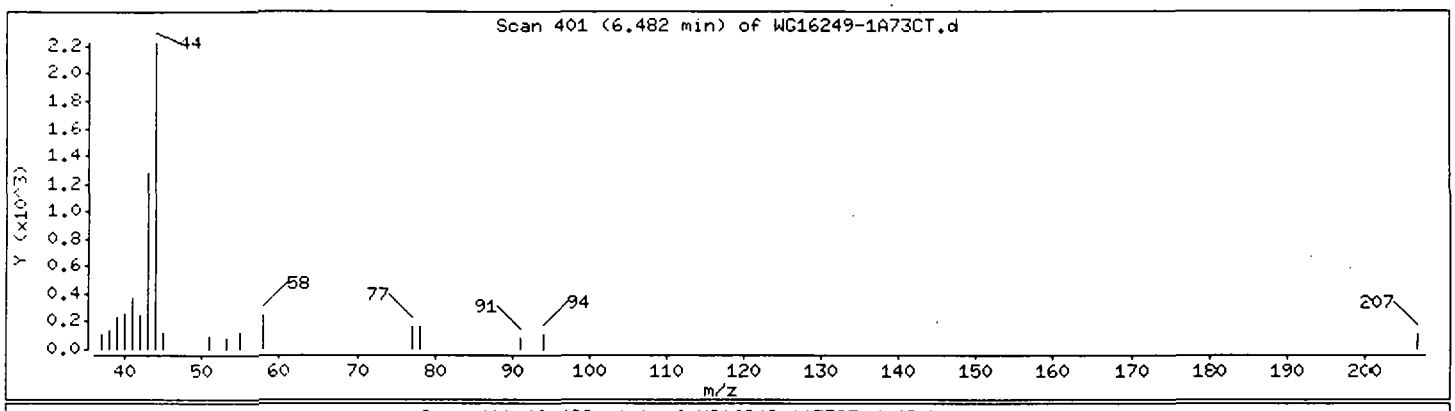
Operator: 2429

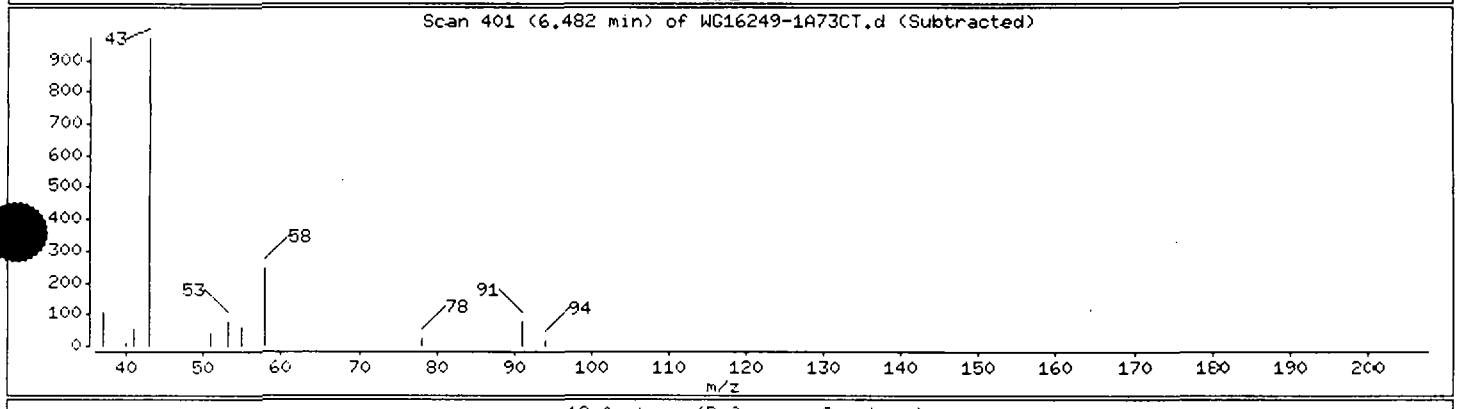
Column phase: ZB-624

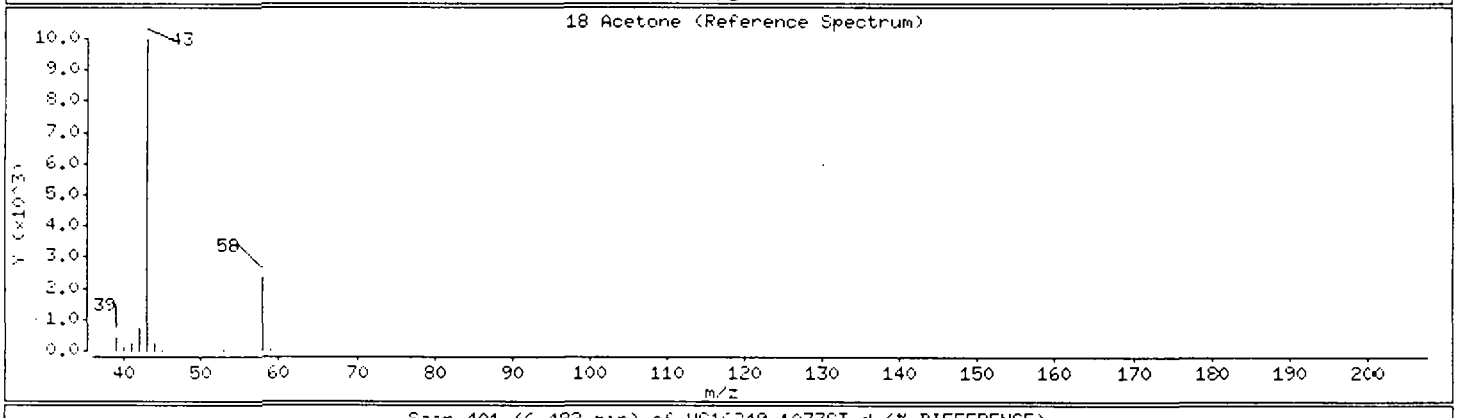
Column diameter: 0.32

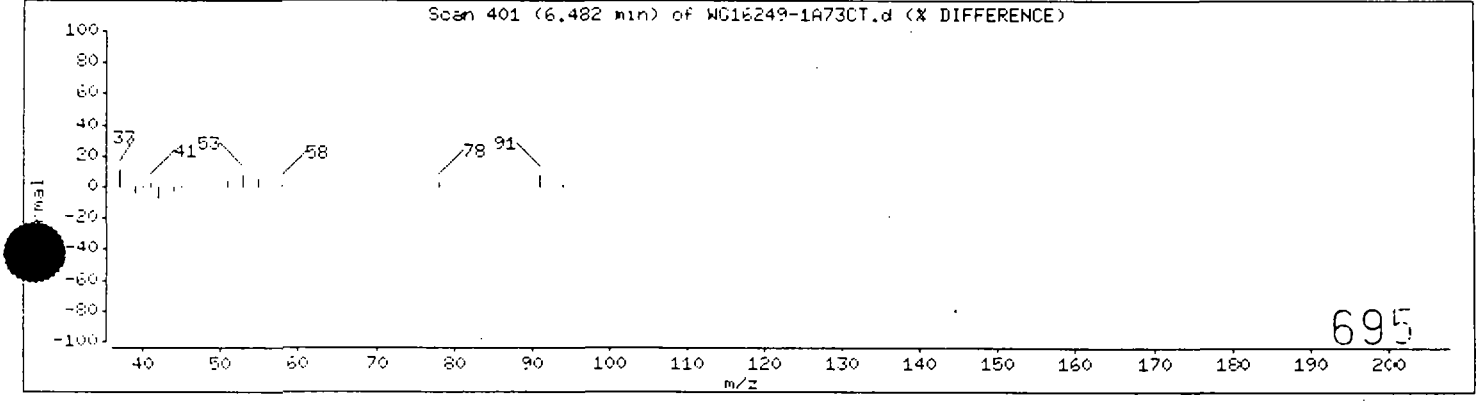
18 Acetone

Concentration: 1.08 ug/L









695

Data File: /chem/5972hp73.i/DF020313A73.b/WG16249-1A73CT.d

Date : 13-MAR-2002 10:51

Client ID: VBLKAX

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

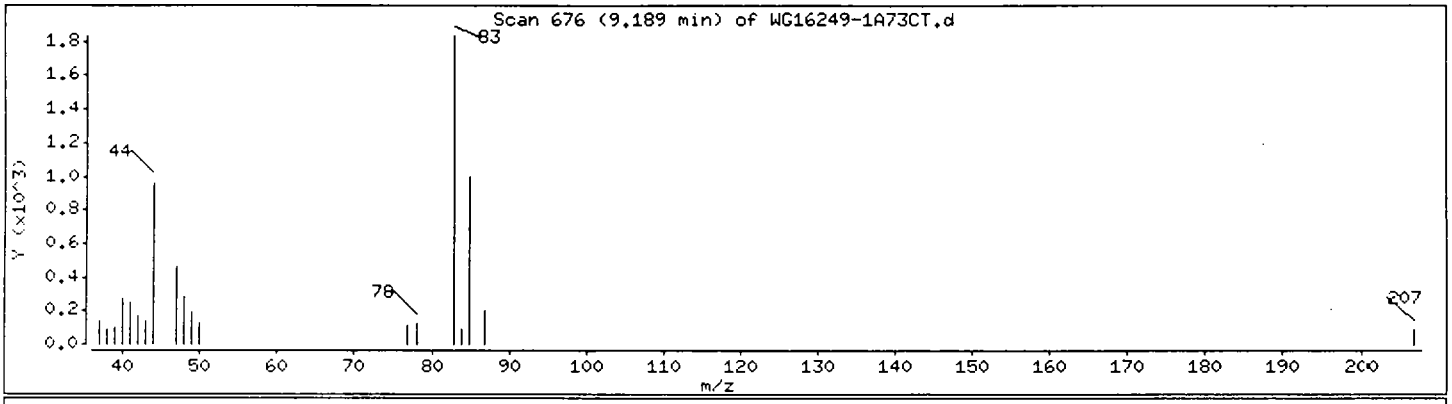
Operator: 2429

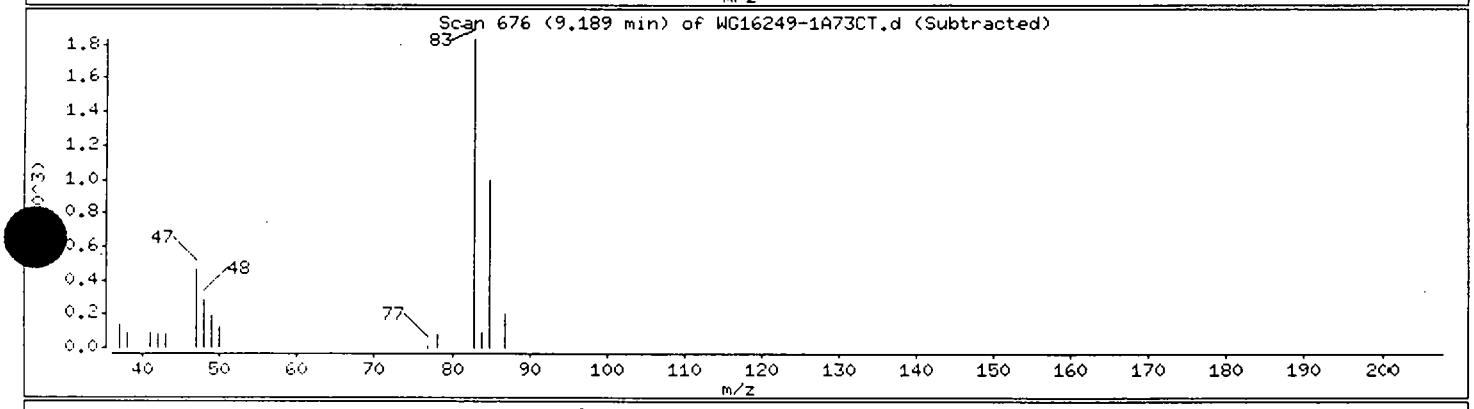
Column phase: ZB-624

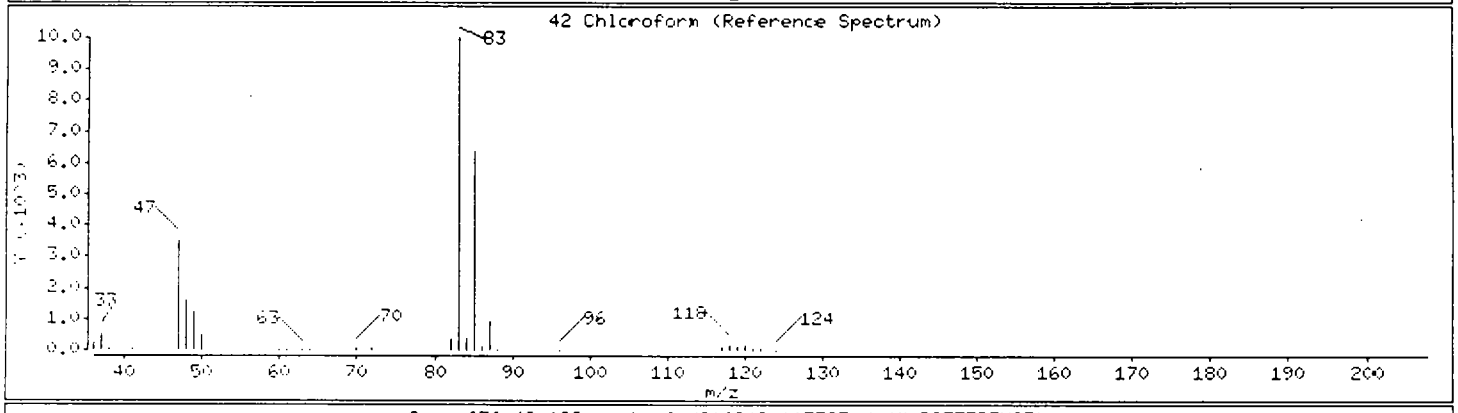
Column diameter: 0.32

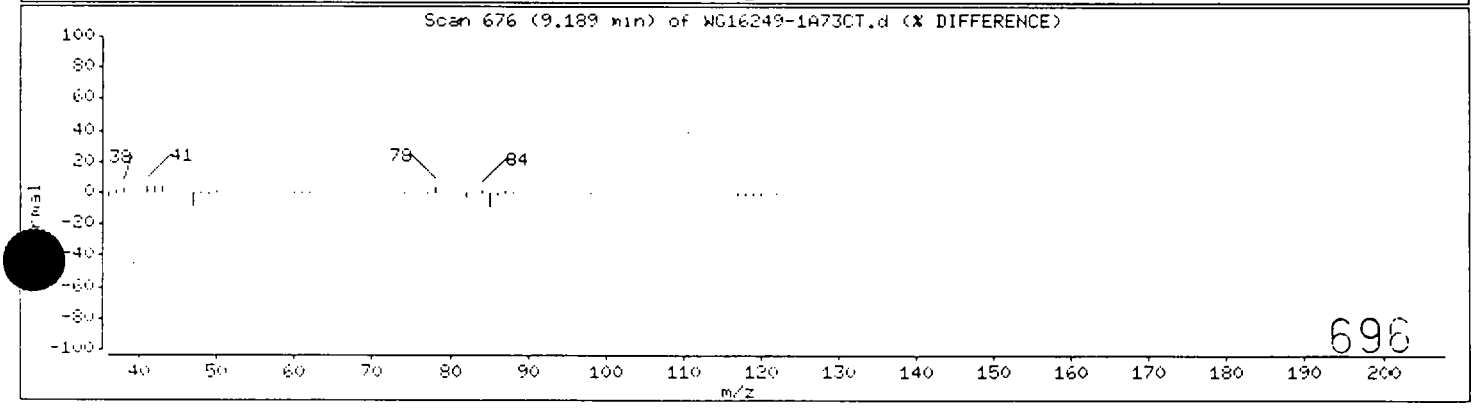
42 Chloroform

Concentration: 0.123 ug/L









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Data File: /chem/5972hp73.i/DF020313A73.b/WG16249-1A73CT.d

Date : 13-MAR-2002 10:51

Client ID: VBLKAX

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

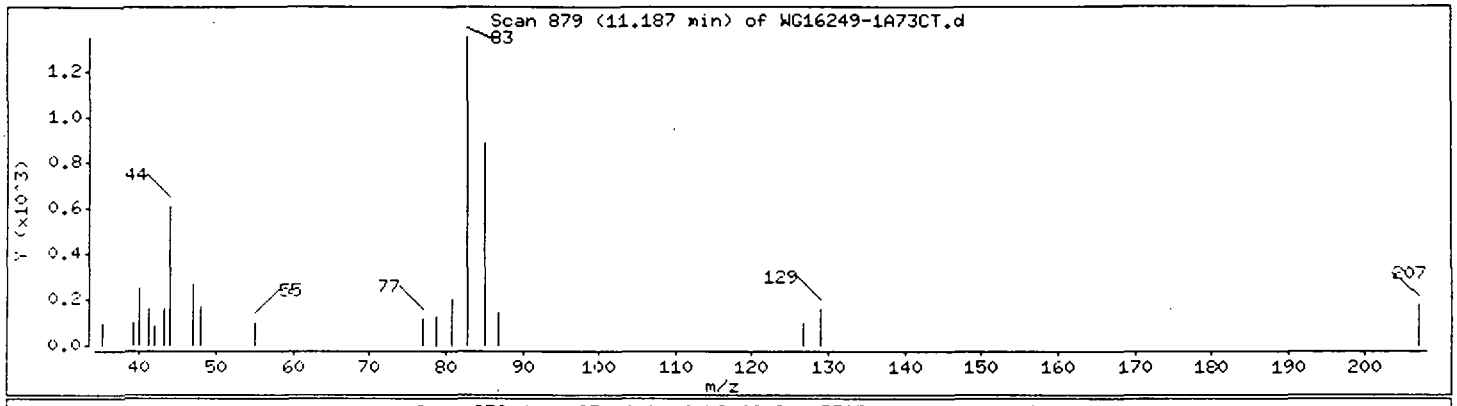
Operator: 2429

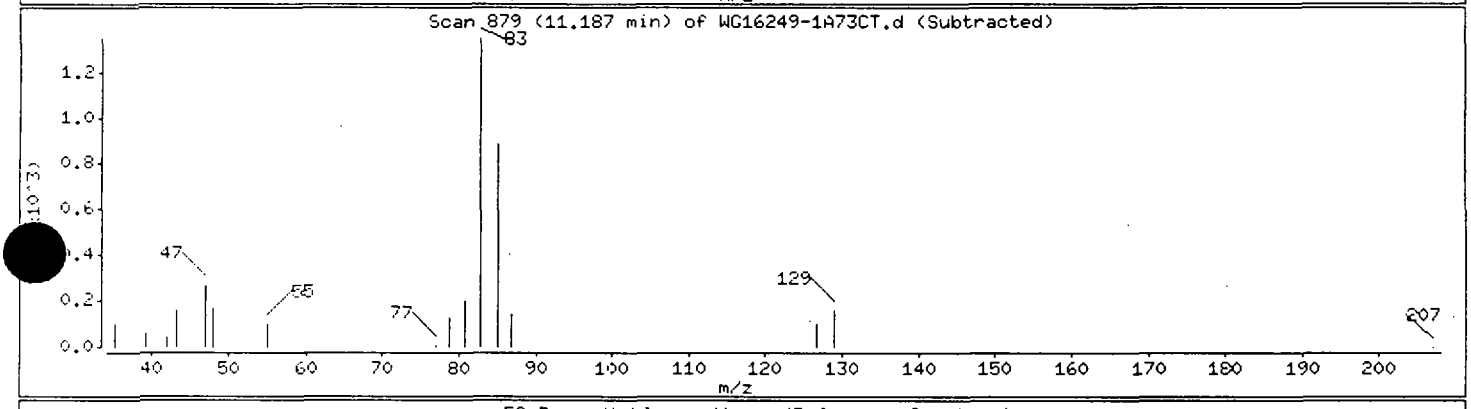
Column phase: ZB-624

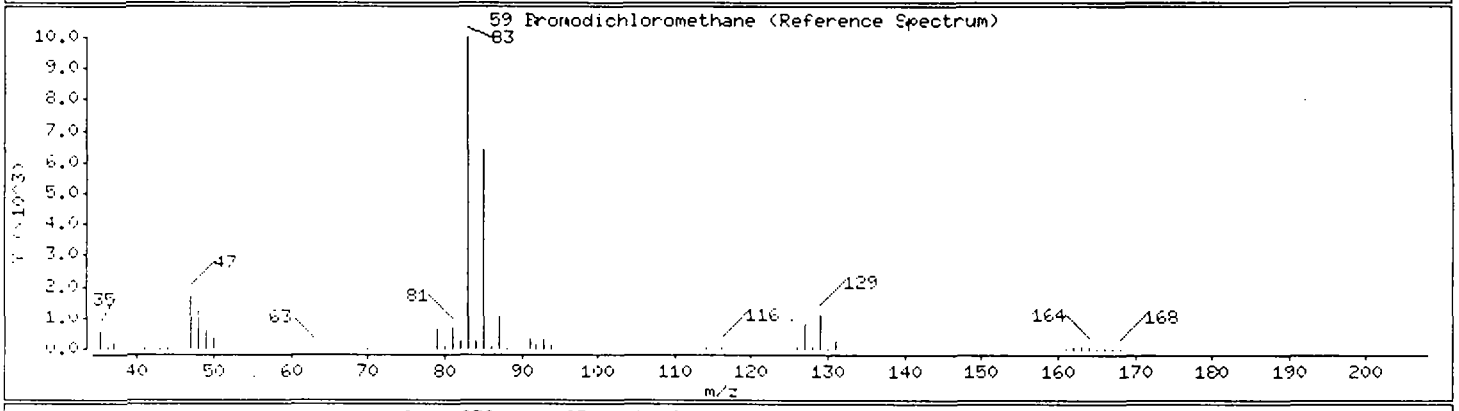
Column diameter: 0.32

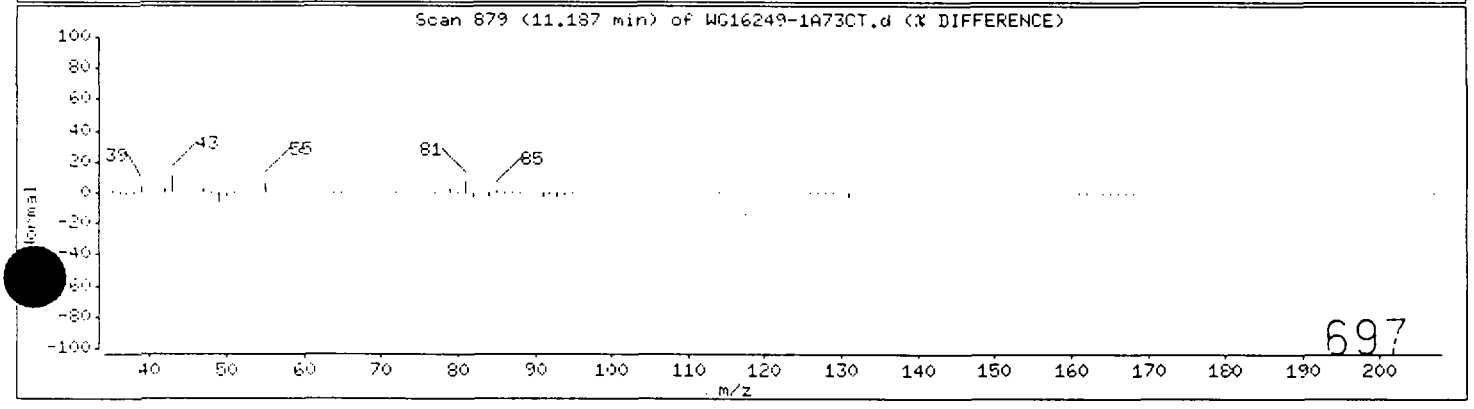
59 Bromodichloromethane

Concentration: 0.123 ug/L









697

Data File: /chem/5972hp73.i/DF020313A73.b/WG16249-1A73CT.d

Date : 13-MAR-2002 10:51

Client ID: VBLKAX

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

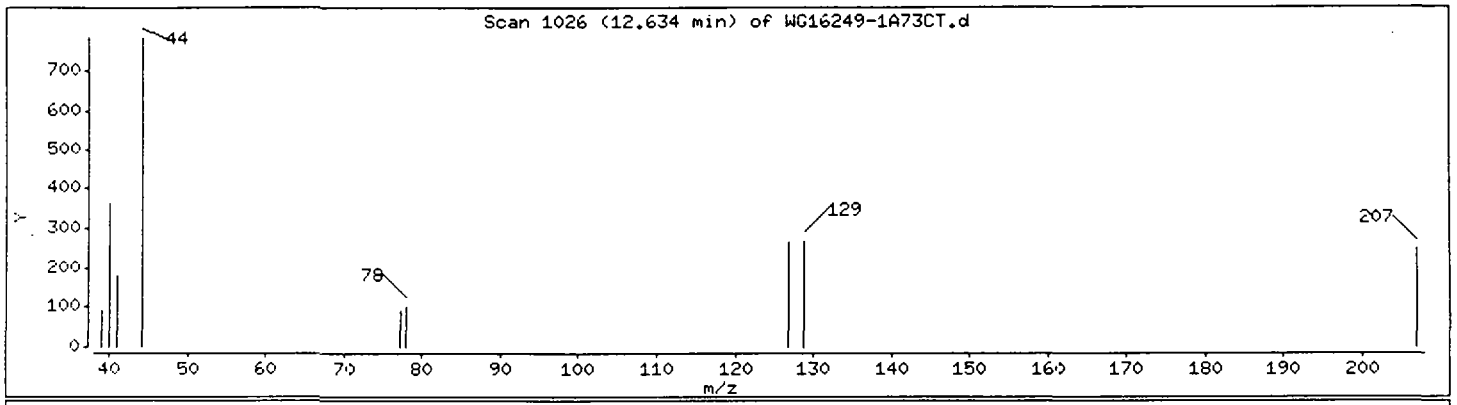
Operator: 2429

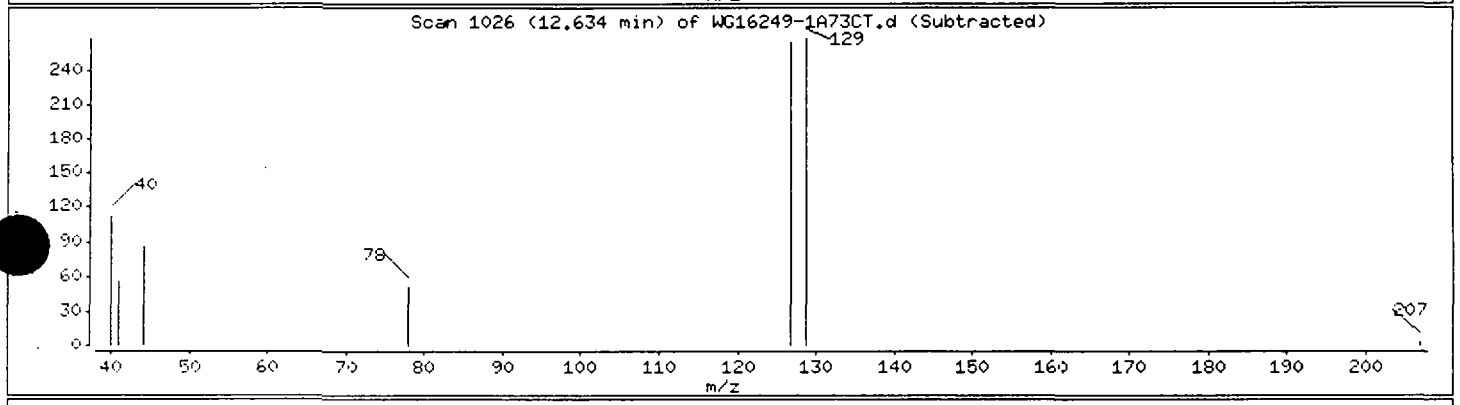
Column phase: ZB-624

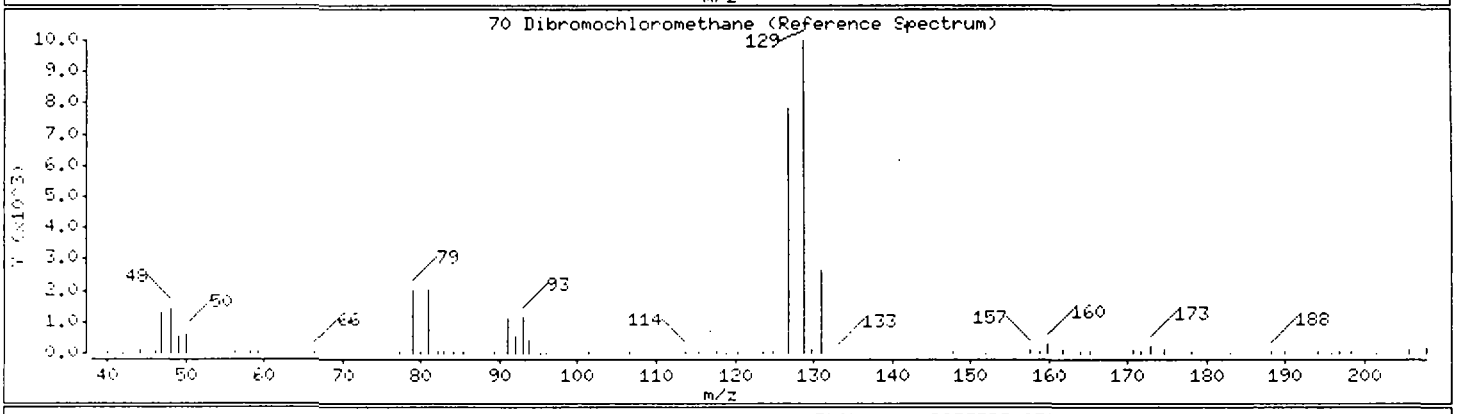
Column diameter: 0.32

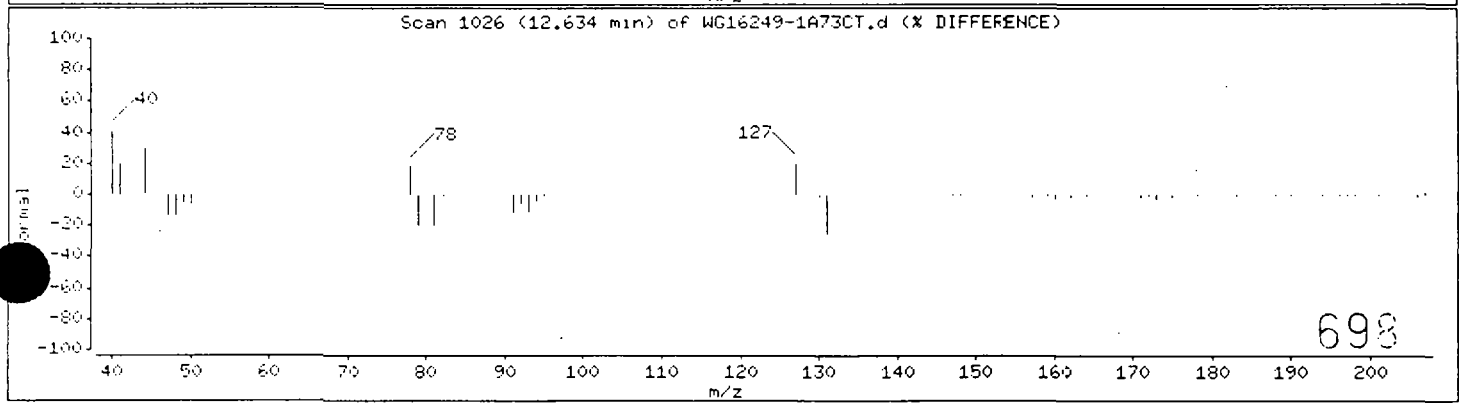
70 Dibromochloromethane

Concentration: 0.0353 ug/L









698

Data File: /chem/5972hp73.i/DF020313A73.b/WG16249-1A73CT.d

Date : 13-MAR-2002 10:51

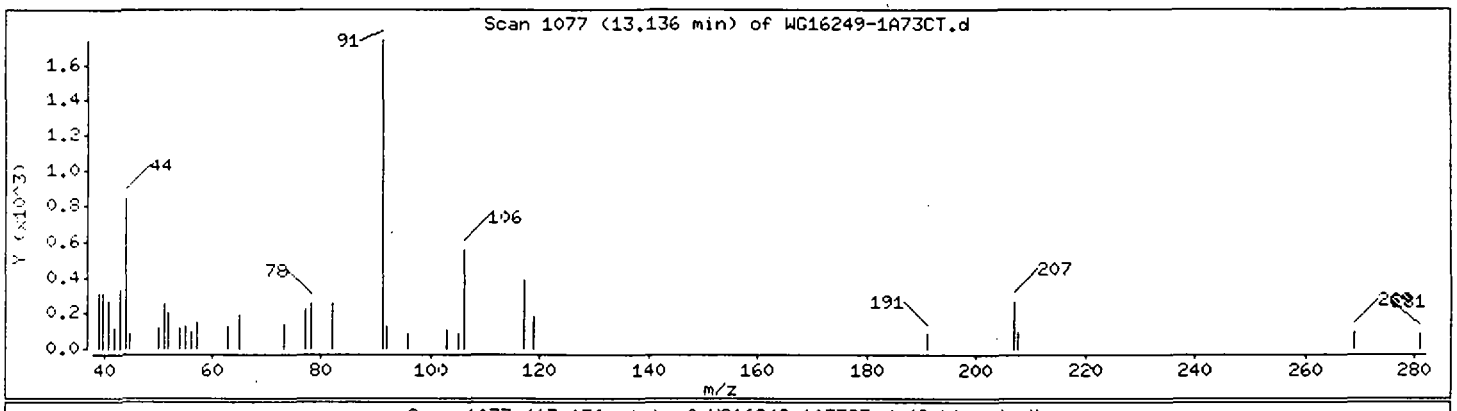
Client ID: VBLKAX | Instrument: 5972hp73.i

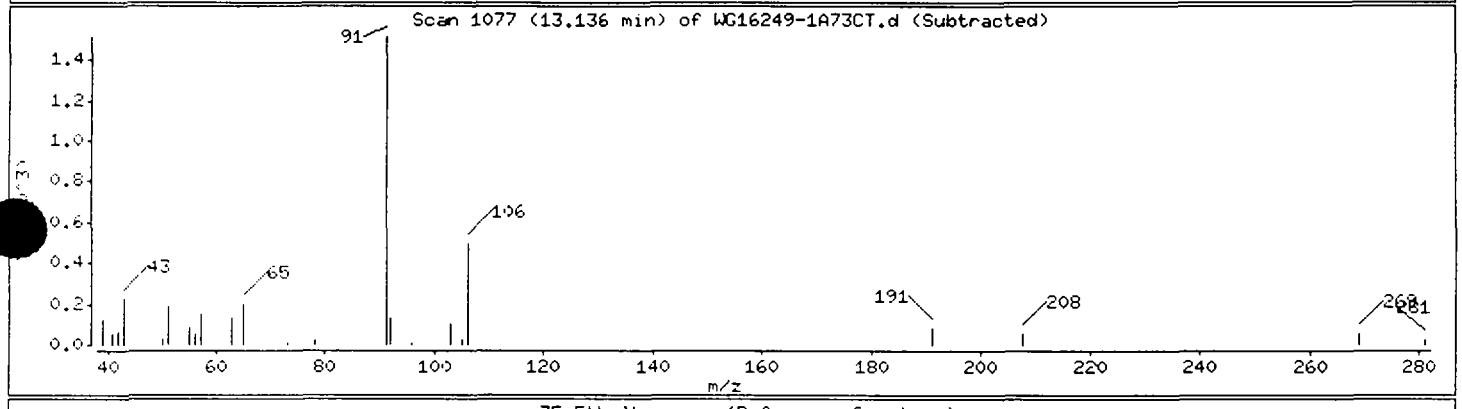
Sample Info:

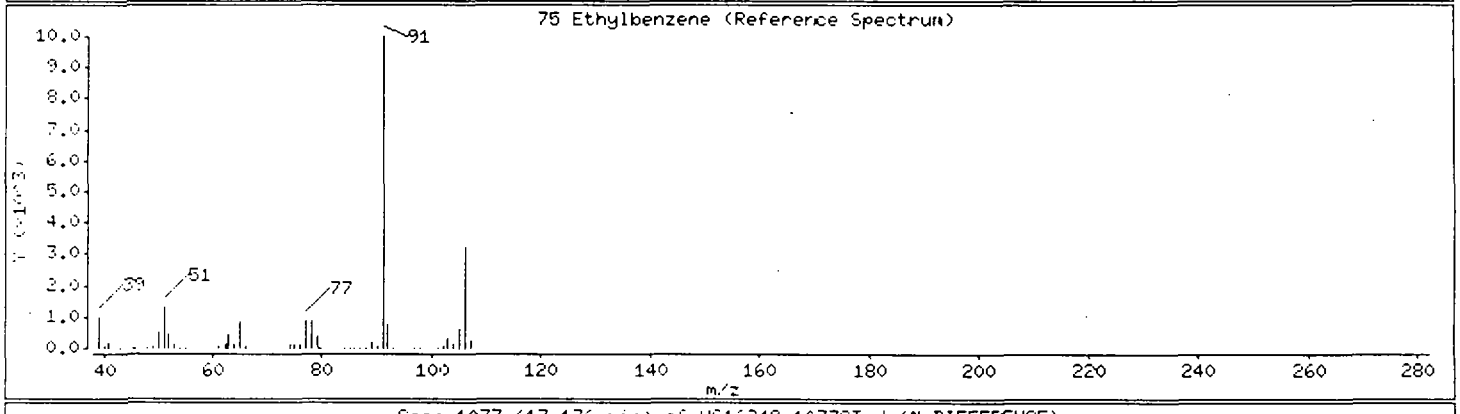
Purge Volume: 25.0 | Operator: 2429

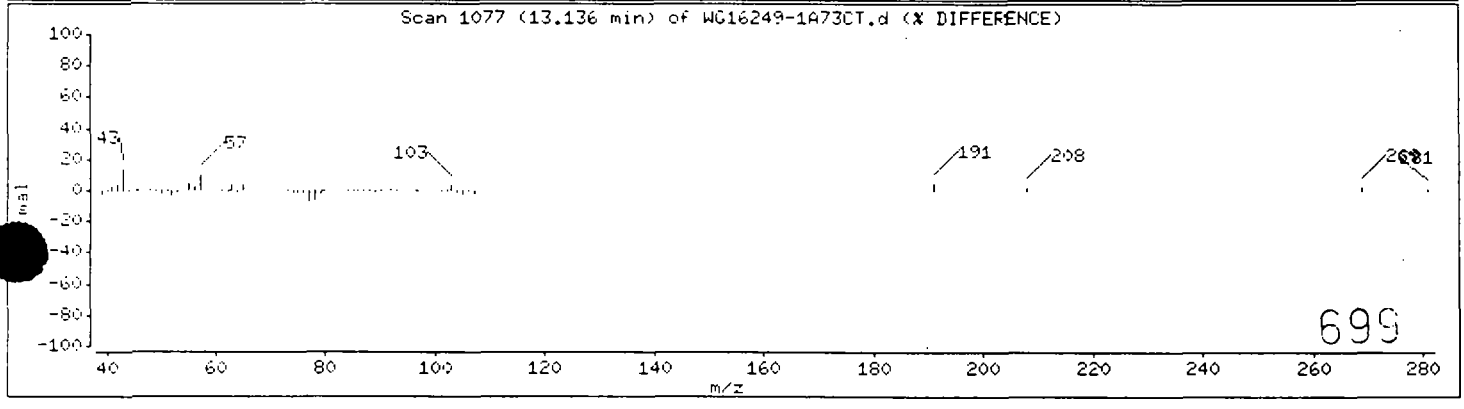
Column phase: ZB-624 | Column diameter: 0.32

75 Ethylbenzene | Concentration: 0.0323 ug/L









699

Data File: /chem/5972hp73.i/DF020313A73.b/WG16249-1A73CT.d

Date : 13-MAR-2002 10:51

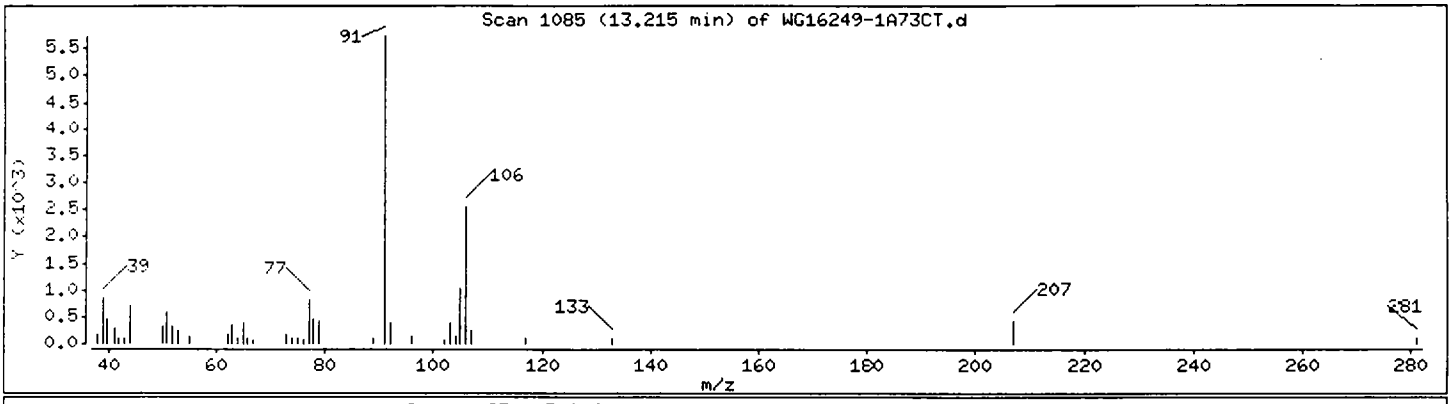
Client ID: VBLKAX | Instrument: 5972hp73.i

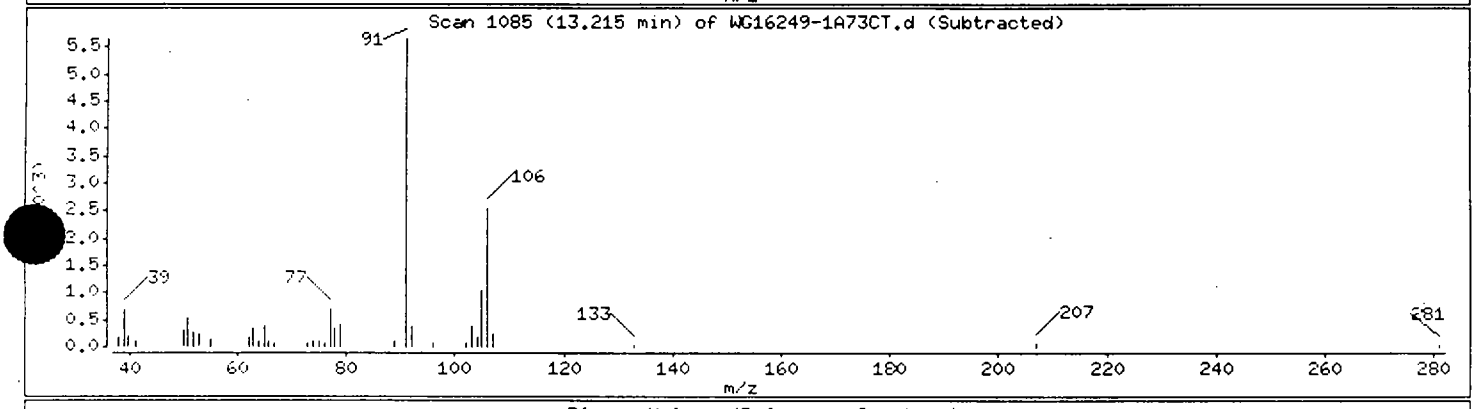
Sample Info:

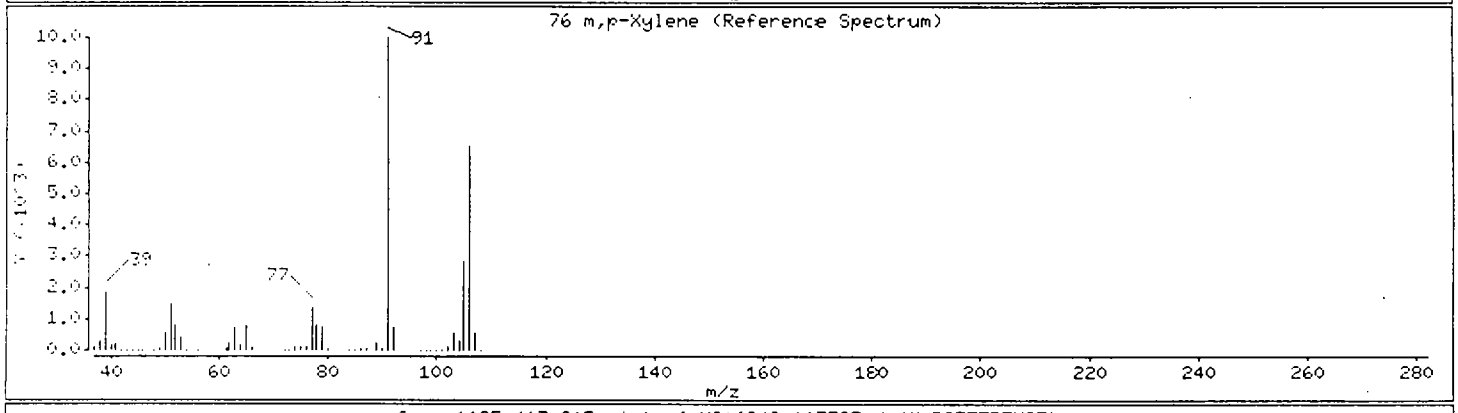
Purge Volume: 25.0 | Operator: 2429

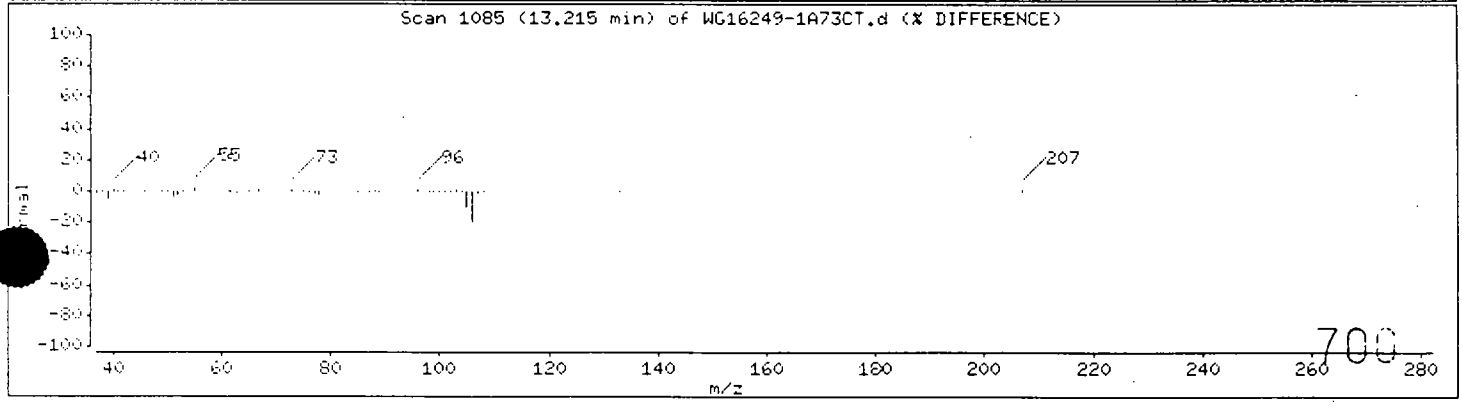
Column phase: ZB-624 | Column diameter: 0.32

76 m,p-Xylene | Concentration: 0.139 ug/L









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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKBB

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: WG16250-2

Sample wt/vol: 25 (g/ml) ML Lab File ID: WG16250-2B73CT

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/13/02

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-15-0	Carbon disulfide	0.5	U
67-64-1	Acetone	1	J
75-09-2	Methylene Chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-butanone	3	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
71-43-2	Benzene	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	3	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
591-78-6	2-hexanone	3	U
124-48-1	Dibromochloromethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.07	J
108-38-3	m,p-Xylene	0.3	J
95-47-6	o-Xylene	0.05	J
100-42-5	Styrene	0.5	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKBB

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: WG16250-2

Sample wt/vol: 25 (g/ml) ML Lab File ID: WG16250-2573CT

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/13/02

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

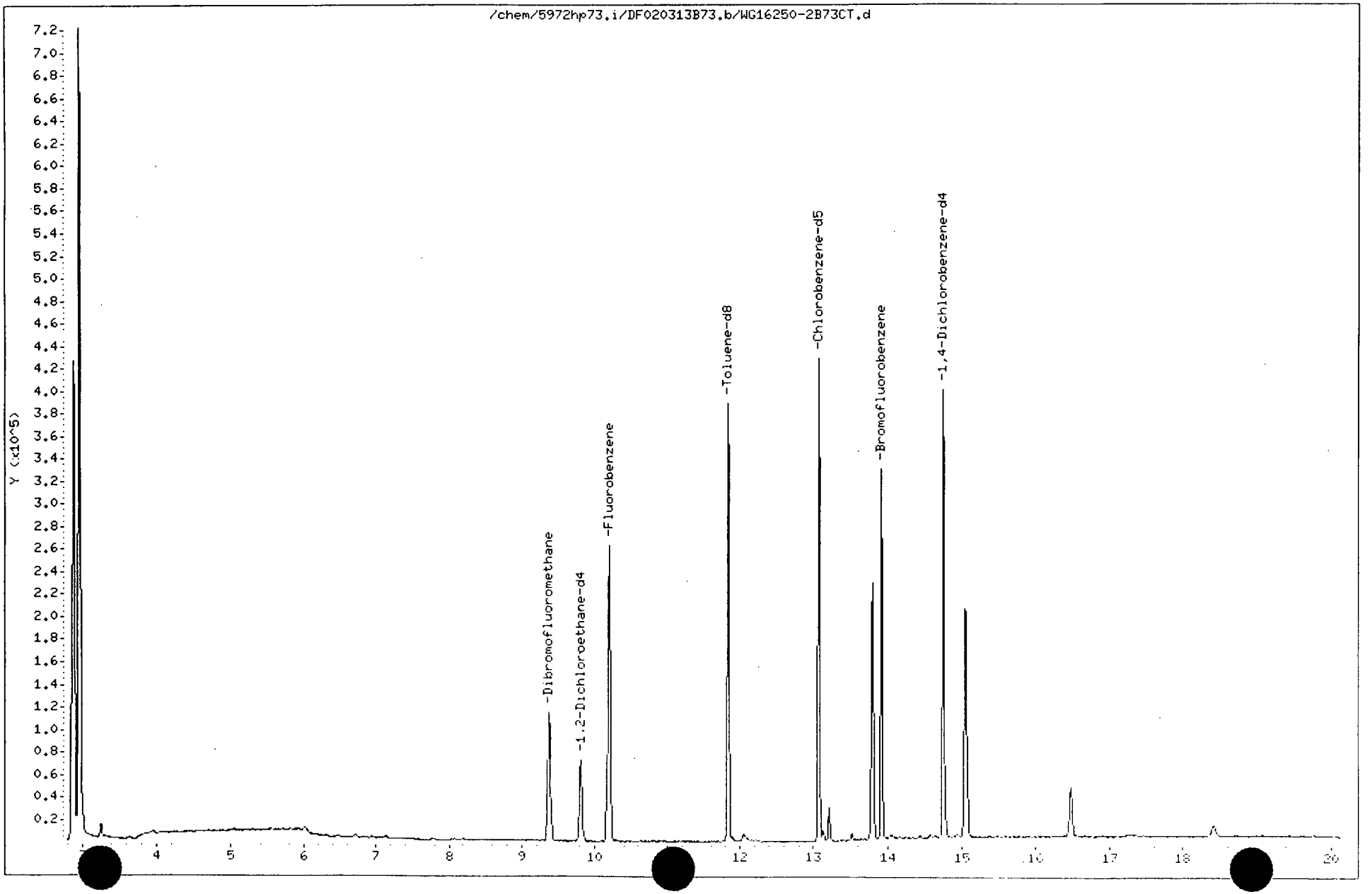
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-25-2	Bromoform	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
1330-20-7	Xylene (total)	0.3	J

FORM I VOA

Data File: /chem/5972hp73.i/DF020313B73.b/WG16250-2B73CT.d
Date : 13-MAR-2002 22:03
Client ID: VBLKBB
Sample Info:
Purge Volume: 25.0
Column phase: ZB-624

Instrument: 5972hp73.i
Operator: 2323
Column diameter: 0.32

703



Data File: /chem/5972hp73.i/DF020313B73.b/WG16250-2B73CT.d
Report Date: 18-Mar-2002 14:32

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF020313B73.b/WG16250-2B73CT.d
Lab Smp Id: WG16250-2 Client Smp ID: VBLKBB
Inj Date : 13-MAR-2002 22:03
Operator : 2323 Inst ID: 5972hp73.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp73.i/DF020313B73.b/W8260-B-25MLv6.m
Meth Date : 18-Mar-2002 14:02 mead Quant Type: ISTD
Cal Date : 22-FEB-2002 22:50 Cal File: CY020222B73.d
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL3CT.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	10.197	10.193	(1.000)	286071	125.000	
* 2 Chlorobenzene-d5	117	13.071	13.067	(1.000)	212286	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.755	14.760	(1.000)	106738	125.000	
S 4 Dibromofluoromethane	113	9.381	9.376	(0.920)	84310	127.075	5.08
S 5 1,2 Dichloroethane-d4	65	9.814	9.809	(0.962)	63640	112.958	4.52
S 6 Toluene-d8	98	11.831	11.836	(0.905)	249425	117.148	4.69
S 7 Bromofluorobenzene	95	13.918	13.913	(0.943)	97882	126.861	5.07
8 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 1,1-Dichloroethene	96	Compound Not Detected.					
15 Carbon Disulfide	76	Compound Not Detected					
16 Acetone	43	6.467	6.462	(0.634)	3167	26.9393	1.08(a)
24 Methylene Chloride	84	Compound Not Detected.					
27 trans-1,2-Dichloroethene	96	Compound Not Detected.					

Rec'd 3/18/2

Data File: /chem/5972hp73.i/DF020313B73.b/WG16250-2B73CT.d
Report Date: 18-Mar-2002 14:32

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
30 1,1-Dichloroethane	63	Compound Not Detected.					
34 cis-1,2-Dichloroethene	96	Compound Not Detected.					
37 2-butanone	43	Compound Not Detected.					
42 Chloroform	83	Compound Not Detected.					
43 1,1,1-Trichloroethane	97	Compound Not Detected.					
48 Carbon Tetrachloride	117	Compound Not Detected.					
51 Benzene	78	Compound Not Detected.					
49 1,2-Dichloroethane	62	Compound Not Detected.					
53 Trichloroethene	130	Compound Not Detected.					
55 1,2-Dichloropropane	63	Compound Not Detected.					
59 Bromodichloromethane	83	Compound Not Detected.					
61 cis-1,3-Dichloropropene	75	Compound Not Detected.					
62 4-Methyl-2-pentanone	43	Compound Not Detected.					
63 Toluene	92	Compound Not Detected.					
64 trans-1,3-Dichloropropene	75	Compound Not Detected.					
65 1,1,2-Trichloroethane	97	Compound Not Detected.					
68 Tetrachloroethene	164	Compound Not Detected.					
69 2-hexanone	43	Compound Not Detected.					
70 Dibromochloromethane	129	Compound Not Detected.					
72 Chlorobenzene	112	Compound Not Detected.					
75 Ethylbenzene	106	13.140	13.136	(1.005)	1625	1.63118	0.0652(a)
76 m,p-Xylene	106	13.209	13.214	(1.011)	7730	6.23916	0.250(a)
77 o-Xylene	106	13.524	13.519	(1.035)	1340	1.15629	0.0463(a)
78 Styrene	104	Compound Not Detected.					
79 Bromoform	173	Compound Not Detected.					
82 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
M 107 Xylene (total	106				9070	7.82655	0.313(a)

QC Flag Legend

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

Data File: /chem/5972hp73.i/DF020313B73.b/WG16250-2B73CT.d

Date : 13-MAR-2002 22:03

Client ID: VBLKBB

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

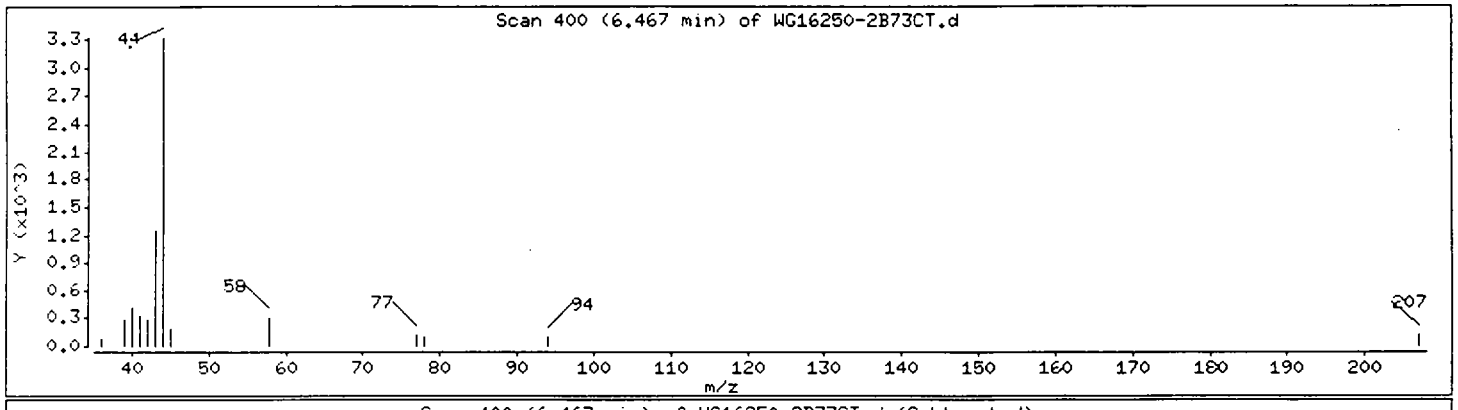
Operator: 2323

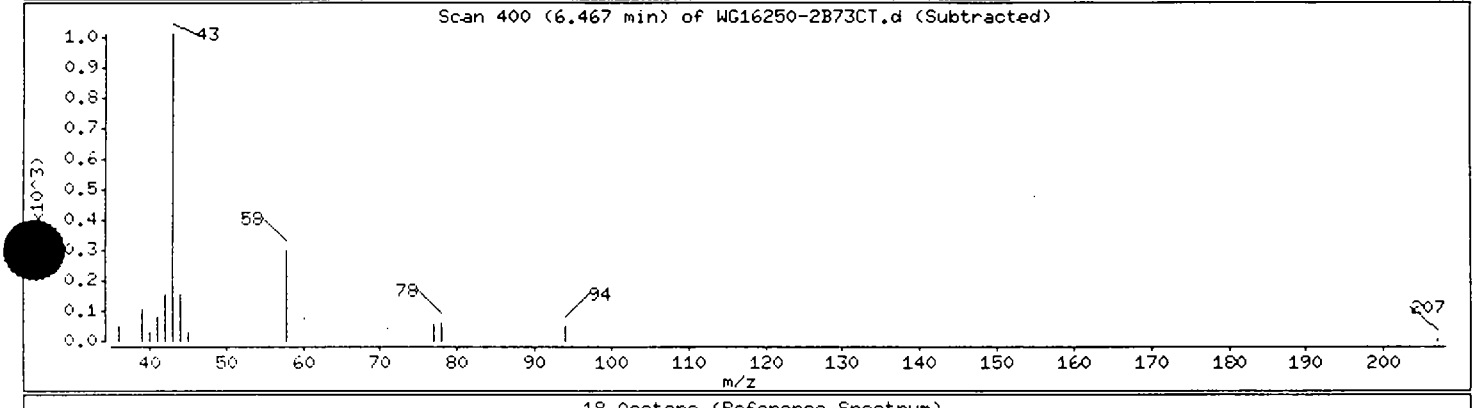
Column phase: ZB-624

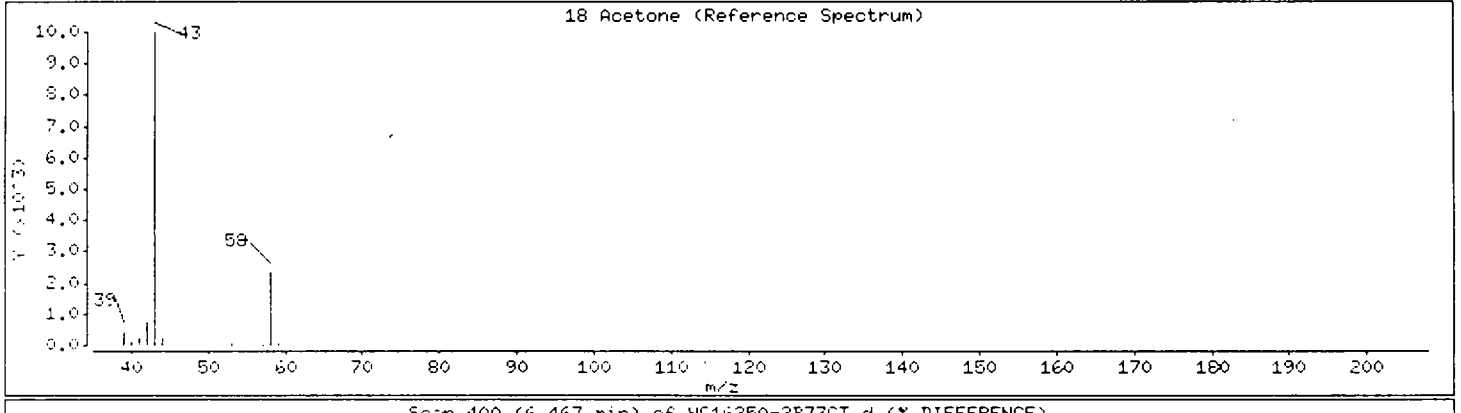
Column diameter: 0.32

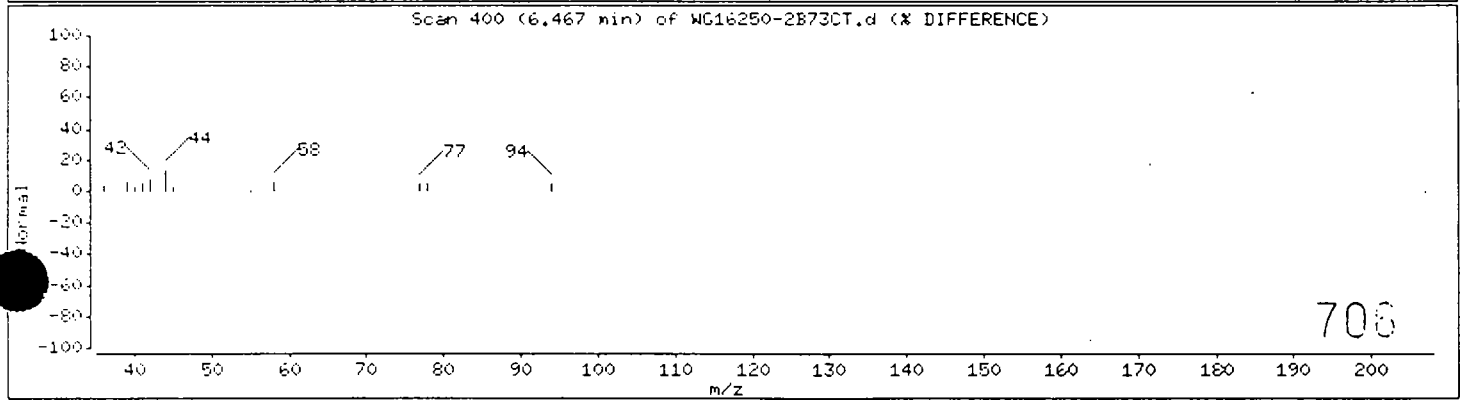
18 Acetone

Concentration: 1.08 ug/L









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Data File: /chem/5972hp73.i/DF020313B73.b/WG16250-2B73CT.d

Date : 13-MAR-2002 22:03

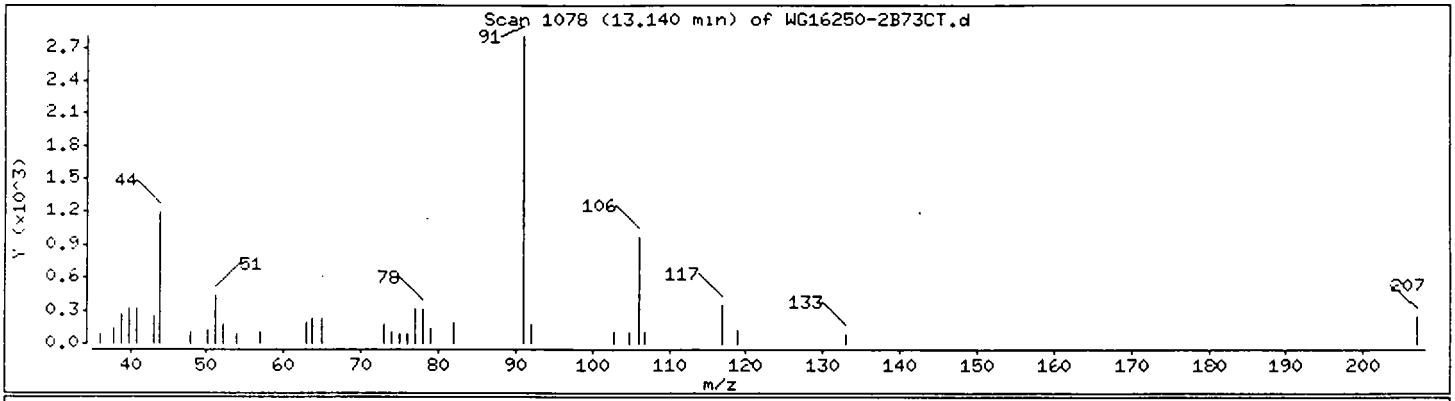
Client ID: VBLKBB | Instrument: 5972hp73.i

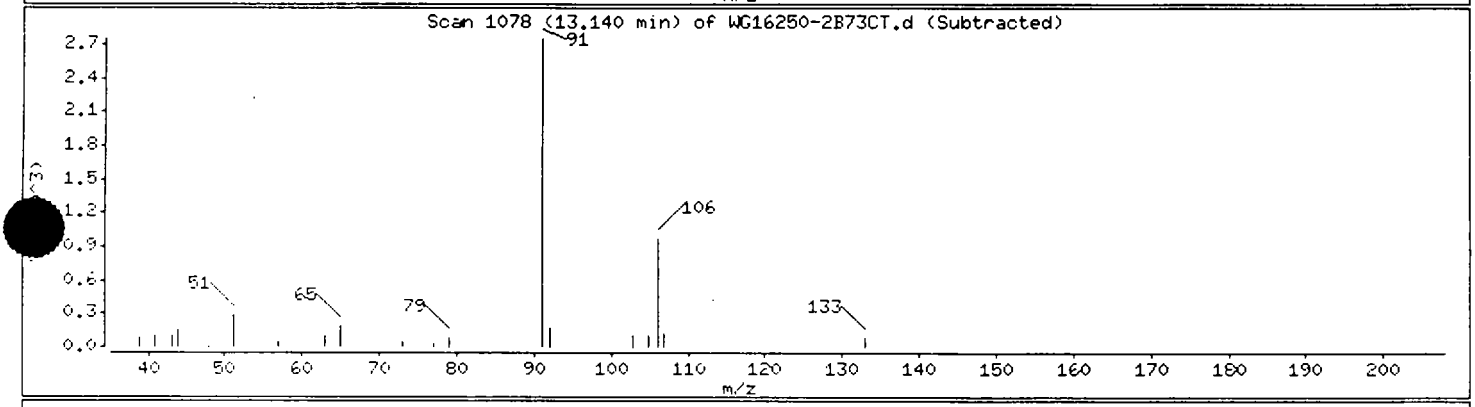
Sample Info:

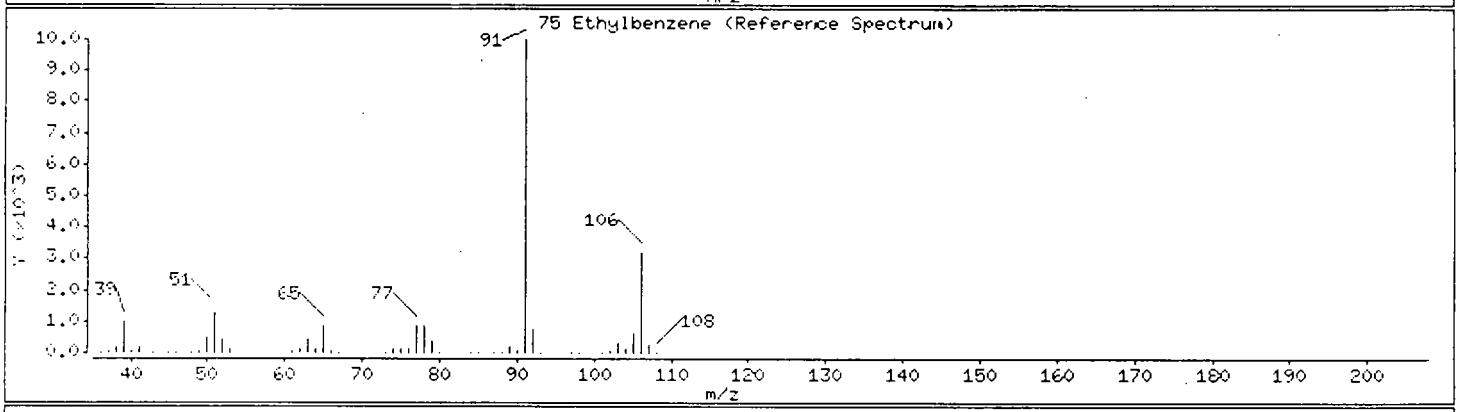
Purge Volume: 25.0 | Operator: 2323

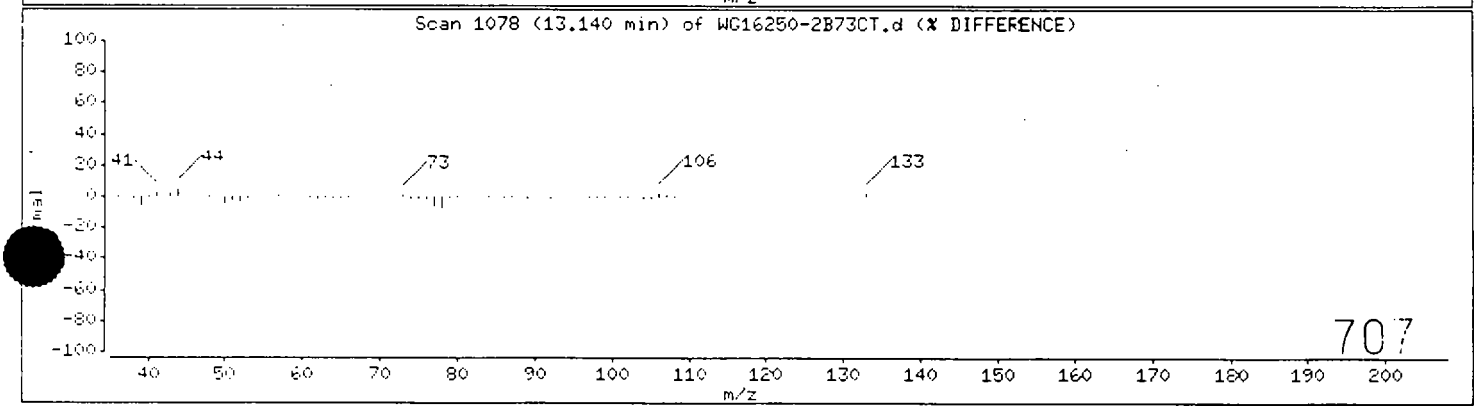
Column phase: ZB-624 | Column diameter: 0.32

75 Ethylbenzene | Concentration: 0.0652 ug/L









Data File: /chem/5972hp73.i/DF020313B73.b/WG16250-2B73CT.d

Date : 13-MAR-2002 22:03

Client ID: VBLKBB

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

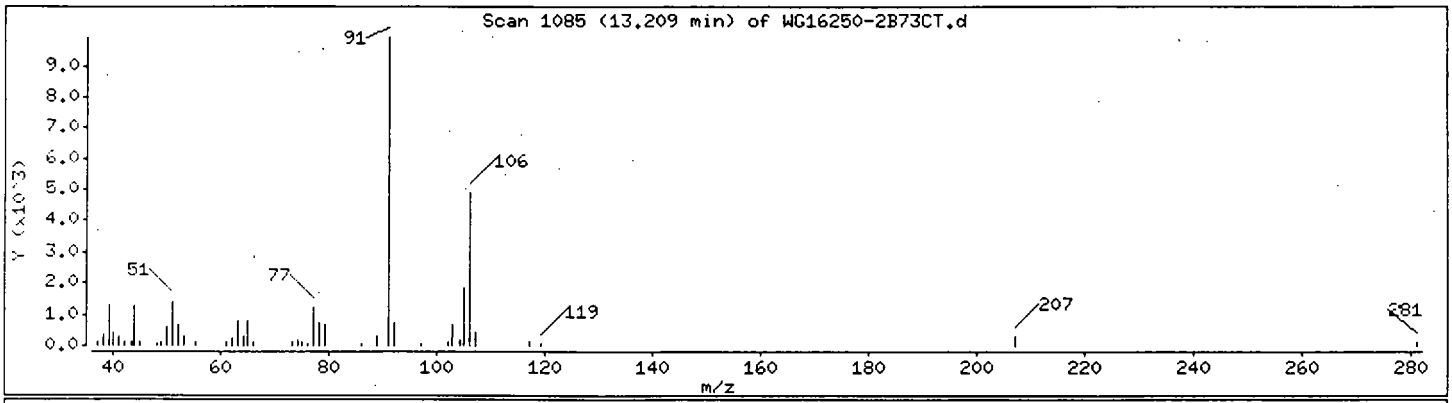
Operator: 2323

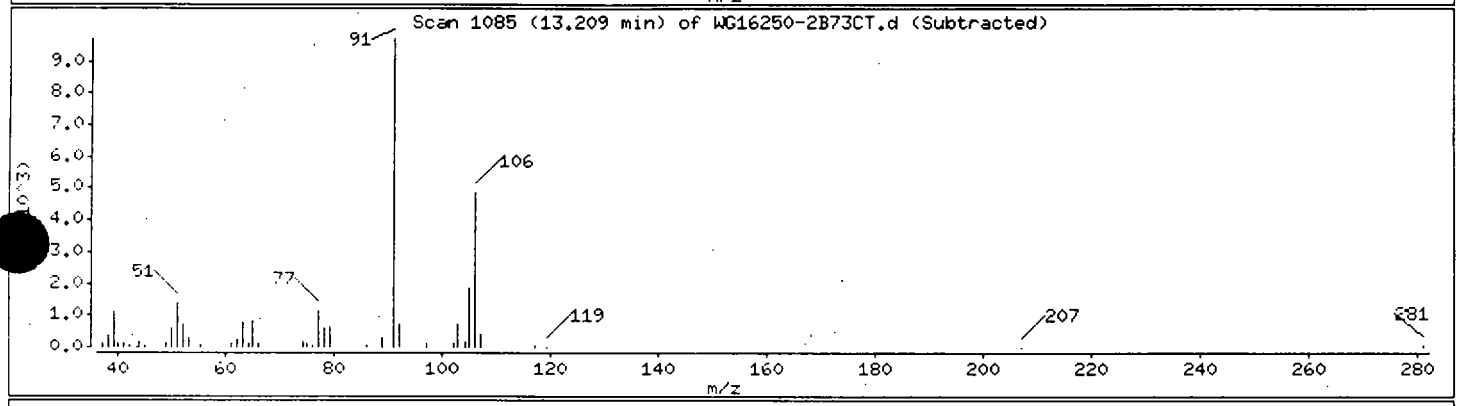
Column phase: ZB-624

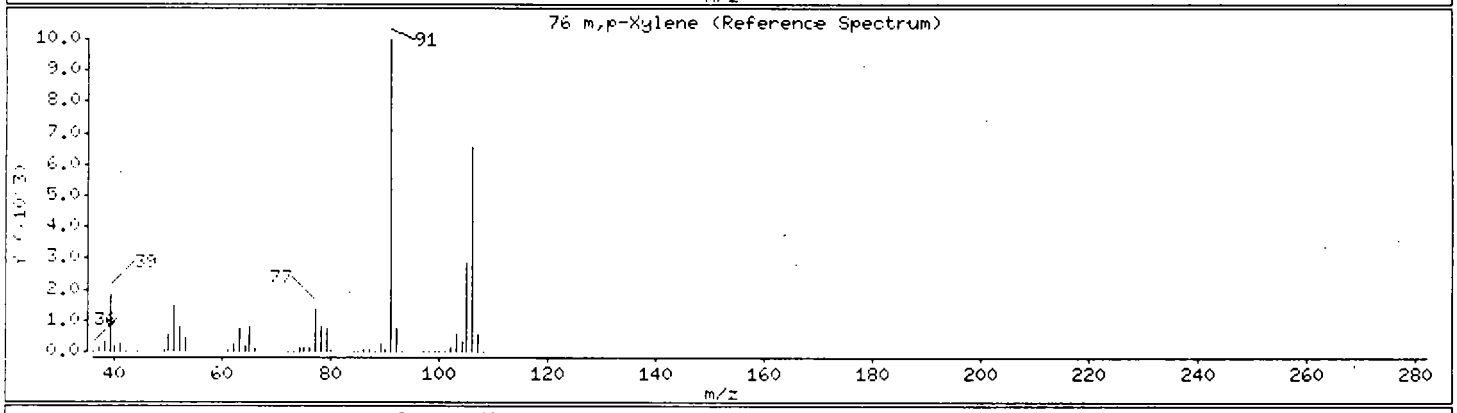
Column diameter: 0.32

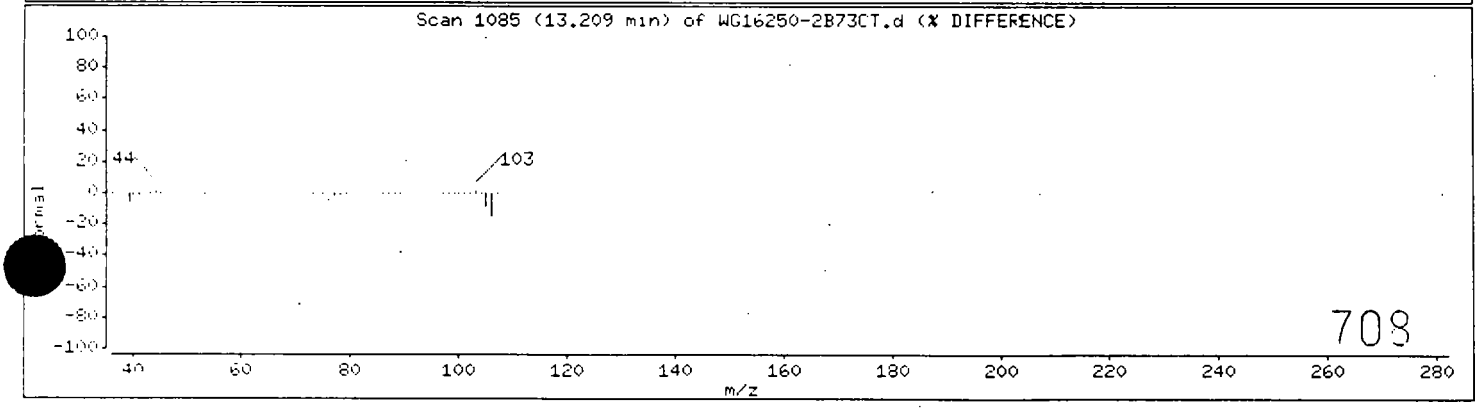
76 m,p-Xylene

Concentration: 0.250 ug/L









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Data File: /chem/5972hp73.i/DF020313B73.b/WG16250-2B73CT.d

Date : 13-MAR-2002 22:03

Client ID: VBLKBB

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

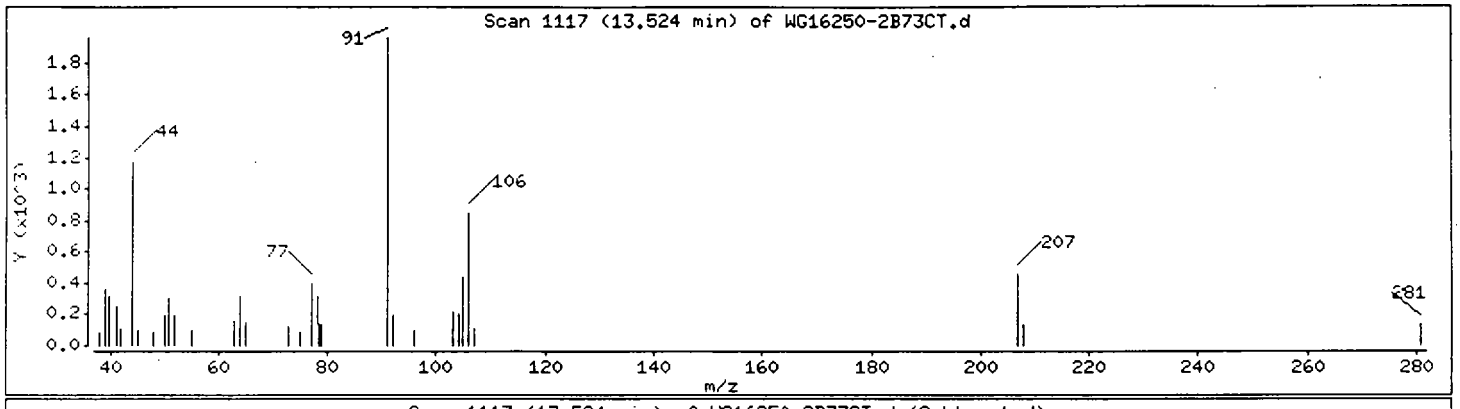
Operator: 2323

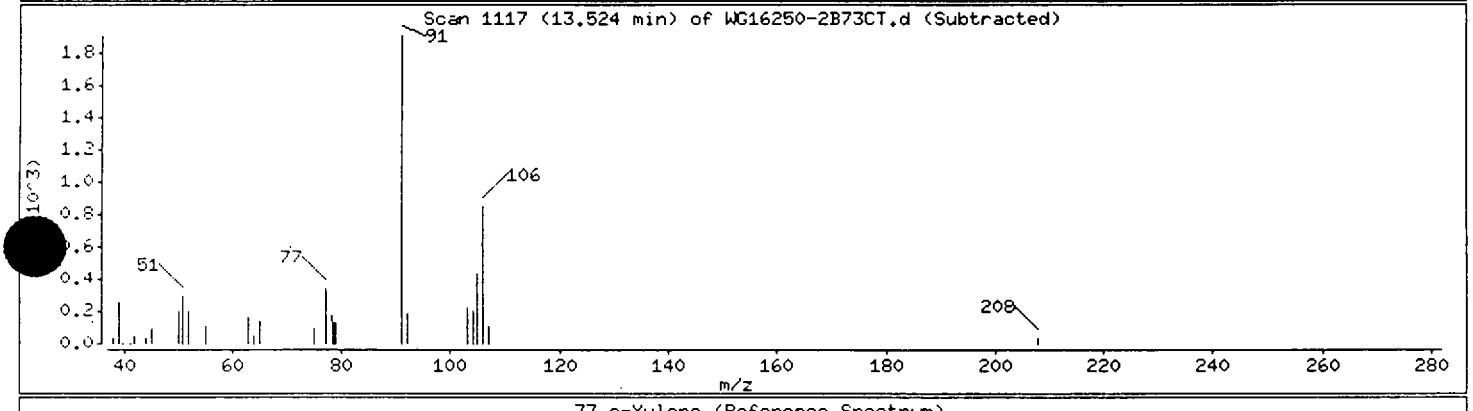
Column phase: ZB-624

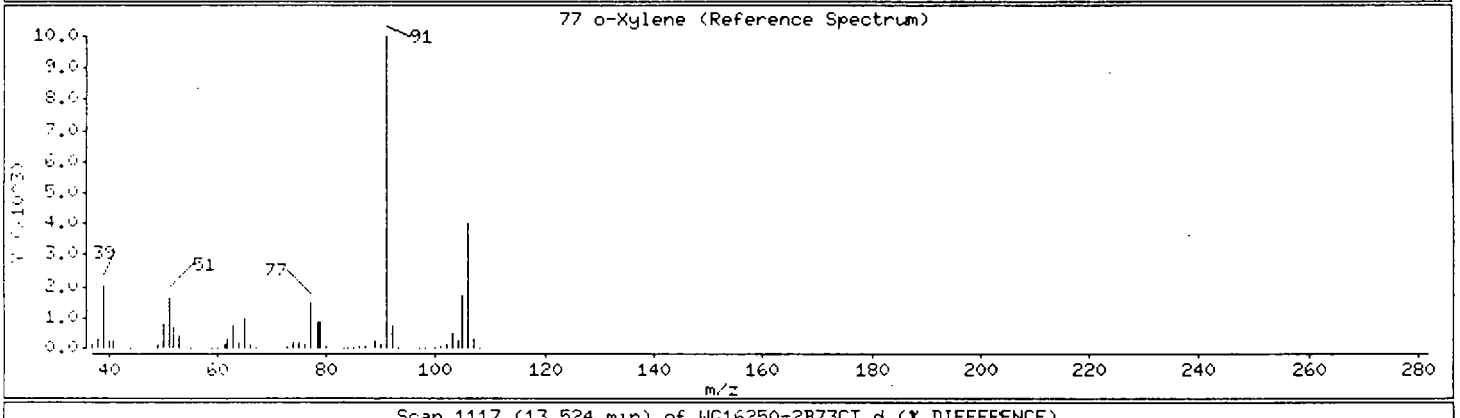
Column diameter: 0.32

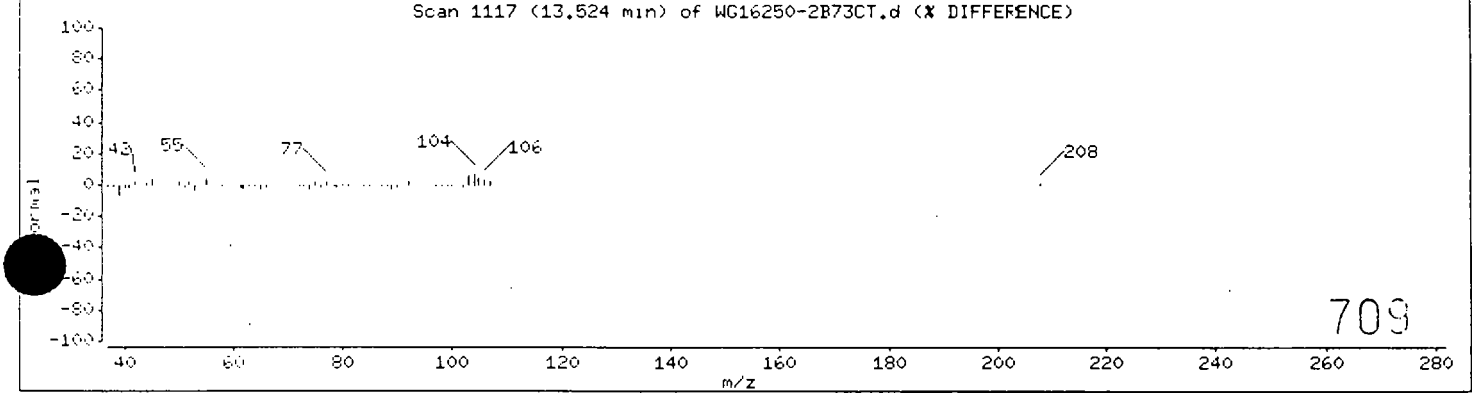
77 o-Xylene

Concentration: 0.0463 ug/L









709

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKZM

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: WG16179-1A

Sample wt/vol: 25 (g/ml) ML Lab File ID: WG16179-1A73CT

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/14/02

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-15-0	Carbon disulfide	0.5	U
67-64-1	Acetone	0.9	J
75-09-2	Methylene Chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-butanone	3	U
67-66-3	Chloroform	0.3	J
71-55-6	1,1,1-Trichloroethane	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
71-43-2	Benzene	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.2	J
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	3	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
591-78-6	2-hexanone	3	U
124-48-1	Dibromochloromethane	0.04	J
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.5	U
108-38-3	m,p-Xylene	0.08	J
95-47-6	o-Xylene	0.5	U
100-42-5	Styrene	0.5	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKZM

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: WG16179-1A

Sample wt/vol: 25 (g/ml) ML Lab File ID: WG16179-1A73CT

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/14/02

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

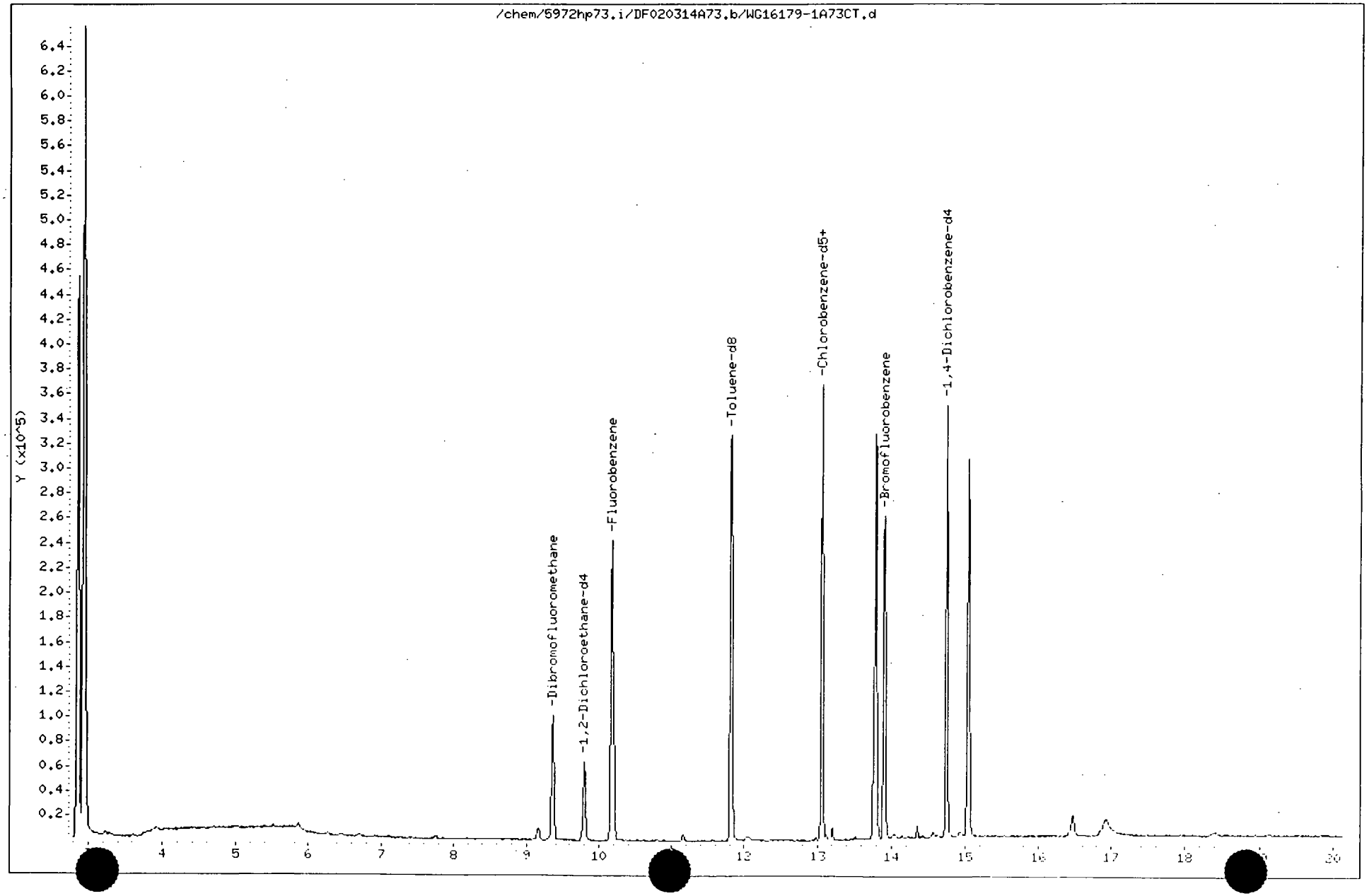
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-25-2	Bromoform	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
1330-20-7	Xylene (total)	0.09	J

Data File: /chem/5972hp73.i/DF020314A73.b/WG16179-1A73CT.d
Date : 14-MAR-2002 10:34
Client ID: VBLKZM
Sample Info:
Purge Volume: 25.0
Column phase: ZB-624

Instrument: 5972hp73.i
Operator: 2323
Column diameter: 0.32

712



Data File: /chem/5972hp73.i/DF020314A73.b/WG16179-1A73CT.d
Report Date: 19-Mar-2002 10:13

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF020314A73.b/WG16179-1A73CT.d
Lab Smp Id: WG16179-1 Client Smp ID: VBLKZM
Inj Date : 14-MAR-2002 10:34
Operator : 2323 Inst ID: 5972hp73.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp73.i/DF020314A73.b/W8260-B-25MLv6.m
Meth Date : 18-Mar-2002 17:25 hubbard Quant Type: ISTD
Cal Date : 22-FEB-2002 22:50 Cal File: CY020222B73.d
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL3CT.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	10.183	10.180	(1.000)	262384	125.000	
* 2 Chlorobenzene-d5	117	13.057	13.064	(1.000)	195752	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.749	14.747	(1.000)	93920	125.000	
S 4 Dibromofluoromethane	113	9.366	9.363	(0.920)	75458	124.000	4.96
S 5 1,2-Dichloroethane-d4	65	9.799	9.796	(0.962)	54201	104.889	4.20
S 6 Toluene-d8	98	11.826	11.824	(0.906)	221955	113.051	4.52
S 7 Bromofluorobenzene	95	13.913	13.910	(0.943)	85190	125.480	5.02
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
16 1,1-Dichloroethene	96	Compound Not Detected.					
21 Carbon disulfide	76	Compound Not Detected.					
18 Acetone	43	6.452	6.450	(0.634)	2504	23.2225	0.929(a)
24 Methylene Chloride	84	Compound Not Detected.					

sat 3/19/02

Data File: /chem/5972hp73.i/DF020314A73.b/WG16179-1A73CT.d
Report Date: 19-Mar-2002 10:13

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
27 trans-1,2-Dichloroethene	96	Compound Not Detected.					
30 1,1-Dichloroethane	63	Compound Not Detected.					
34 cis-1,2-Dichloroethene	96	Compound Not Detected.					
37 2-butanone	43	Compound Not Detected.					
42 Chloroform	83	9.169	9.166	(0.900)	8616	6.36366	0.255(a)
43 1,1,1-Trichloroethane	97	Compound Not Detected.					
48 Carbon Tetrachloride	117	Compound Not Detected.					
51 Benzene	78	Compound Not Detected.					
49 1,2-Dichloroethane	62	Compound Not Detected.					
53 Trichloroethene	130	Compound Not Detected.					
55 1,2-Dichloropropane	63	Compound Not Detected.					
59 Bromodichloromethane	83	11.157	11.164	(1.096)	3637	4.23365	0.169(a)
61 cis-1,3-Dichloropropene	75	Compound Not Detected.					
62 4-Methyl-2-pentanone	43	Compound Not Detected.					
63 Toluene	92	Compound Not Detected.					
64 trans-1,3-Dichloropropene	75	Compound Not Detected.					
65 1,1,2-Trichloroethane	97	Compound Not Detected.					
68 Tetrachloroethene	164	Compound Not Detected.					
69 2-hexanone	43	Compound Not Detected.					
70 Dibromochloromethane	129	12.624	12.621	(0.967)	547	1.06330	0.0425(a)
72 Chlorobenzene	112	Compound Not Detected.					
75 Ethylbenzene	106	Compound Not Detected.					
76 m,p-Xylene	106	13.204	13.202	(1.011)	2376	2.07974	0.0832(a)
77 o-Xylene	106	Compound Not Detected.					
78 Styrene	104	Compound Not Detected.					
79 Bromoform	173	Compound Not Detected.					
82 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
M 107 Xylene (total)	106				2376	2.22344	0.0889(a)

QC Flag Legend

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

Data File: /chem/5972hp73.i/DF020314A73.b/WG16179-1A73CT.d

Date : 14-MAR-2002 10:34

Client ID: VBLKZM

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

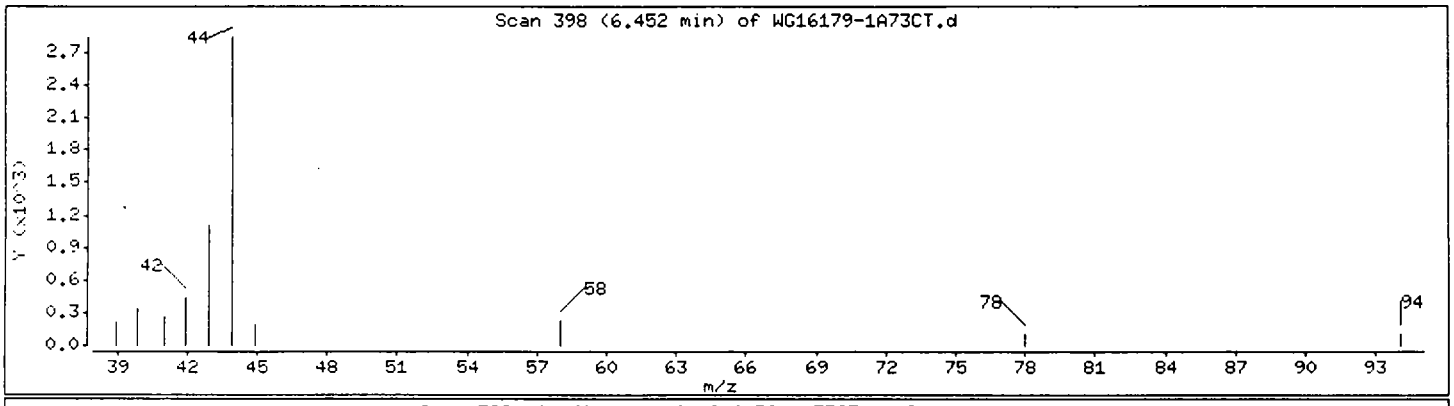
Operator: 2323

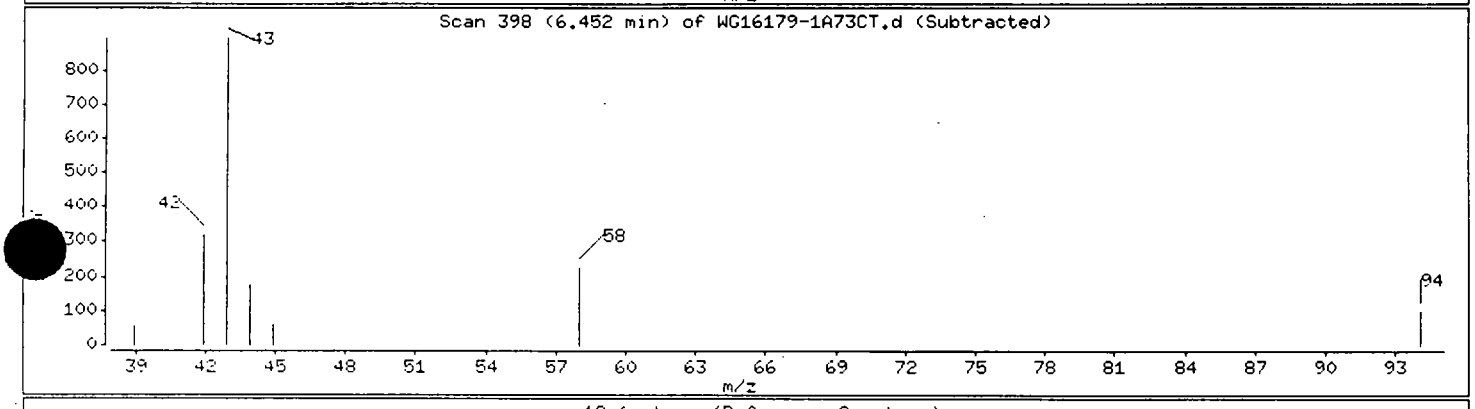
Column phase: ZB-624

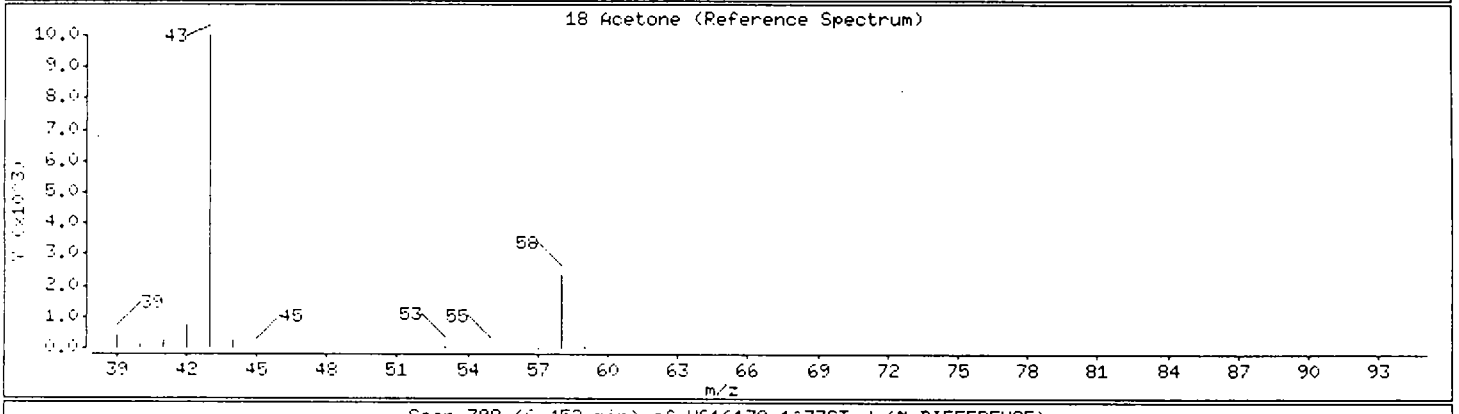
Column diameter: 0.32

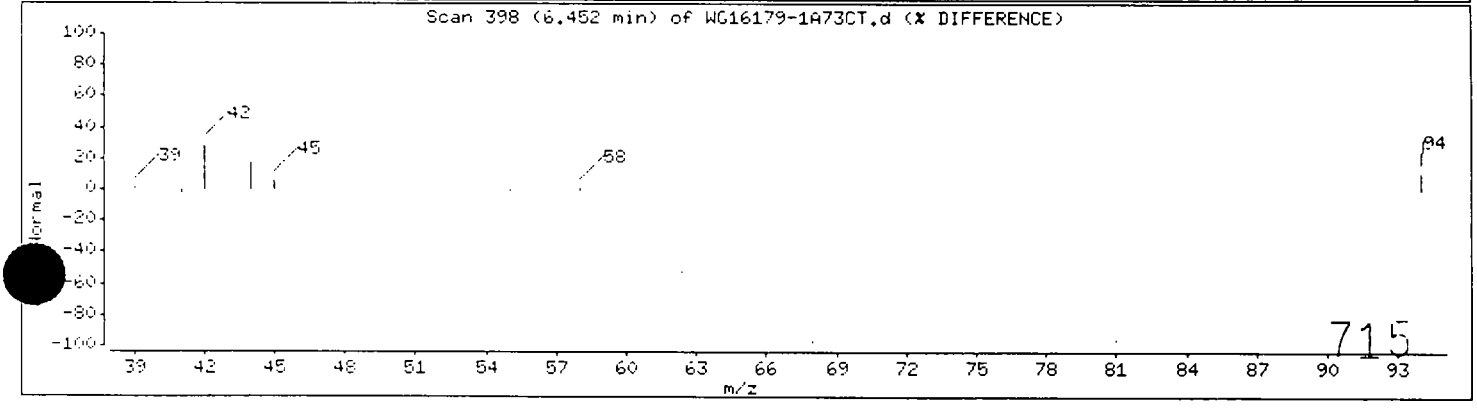
18 Acetone

Concentration: 0.929 ug/L









715

Data File: /chem/5972hp73.i/DF020314A73.b/WG16179-1A73CT.d

Date : 14-MAR-2002 10:34

Client ID: VBLKZM

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

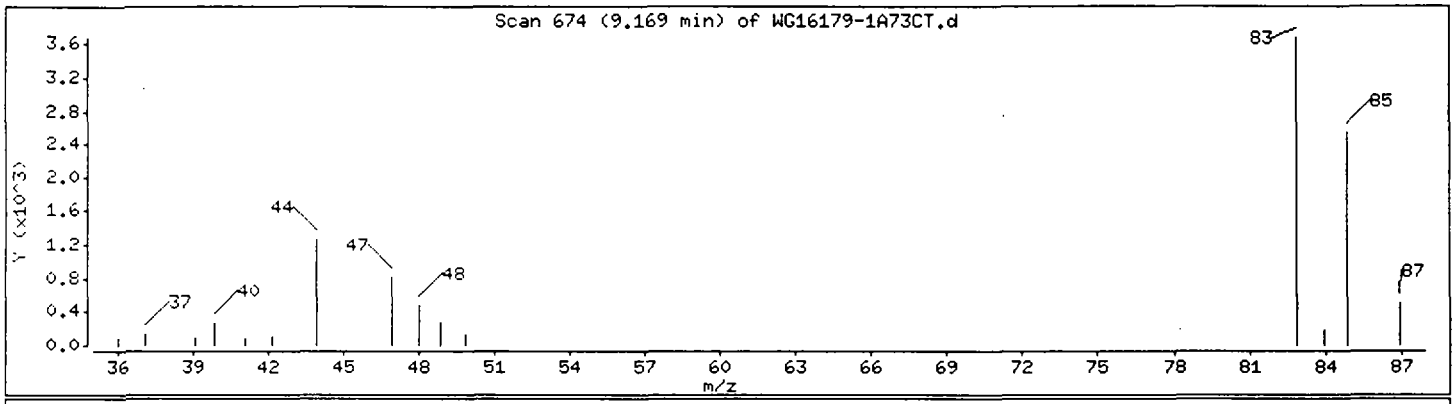
Operator: 2323

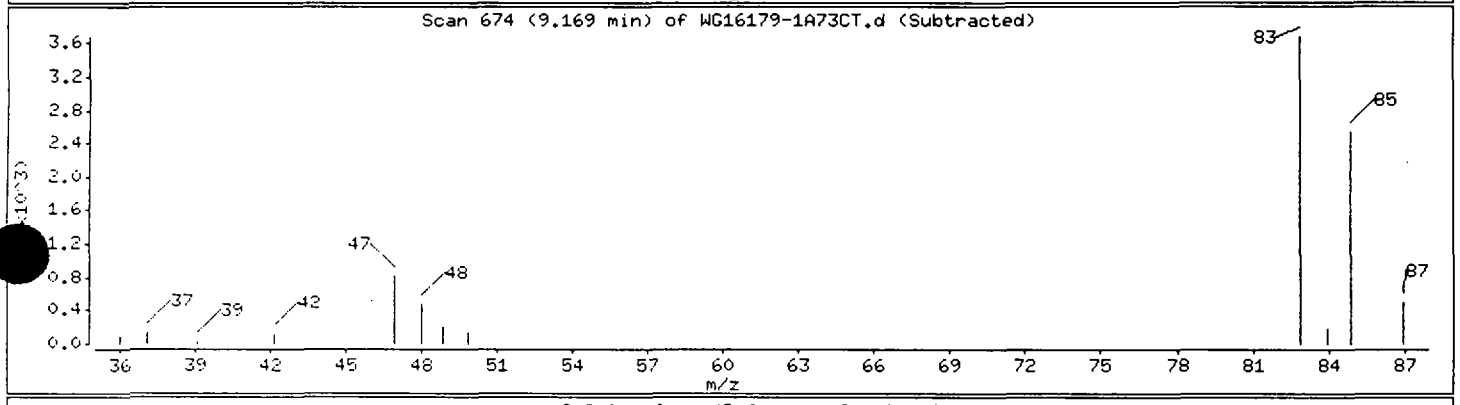
Column phase: ZB-624

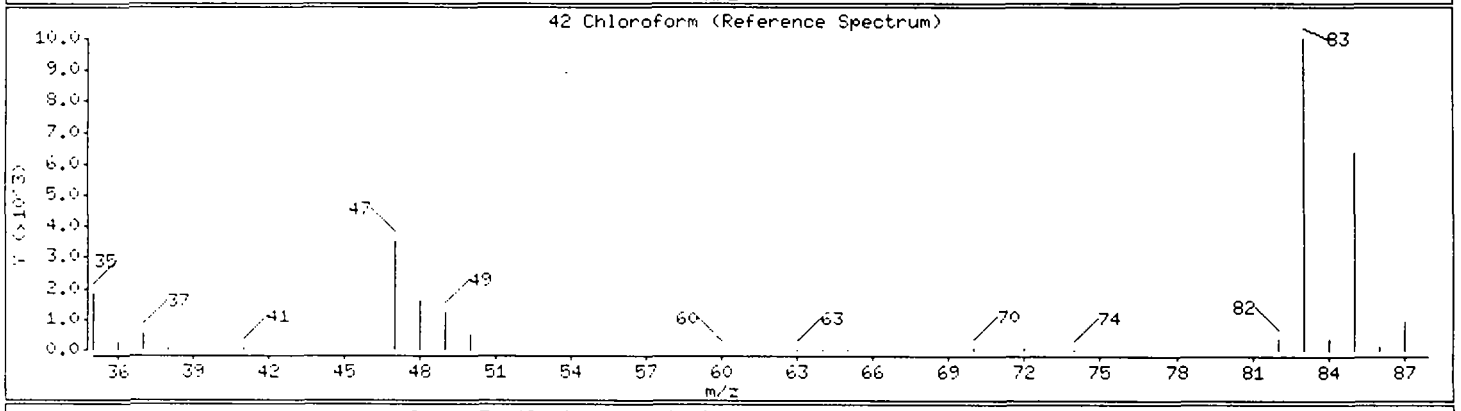
Column diameter: 0.32

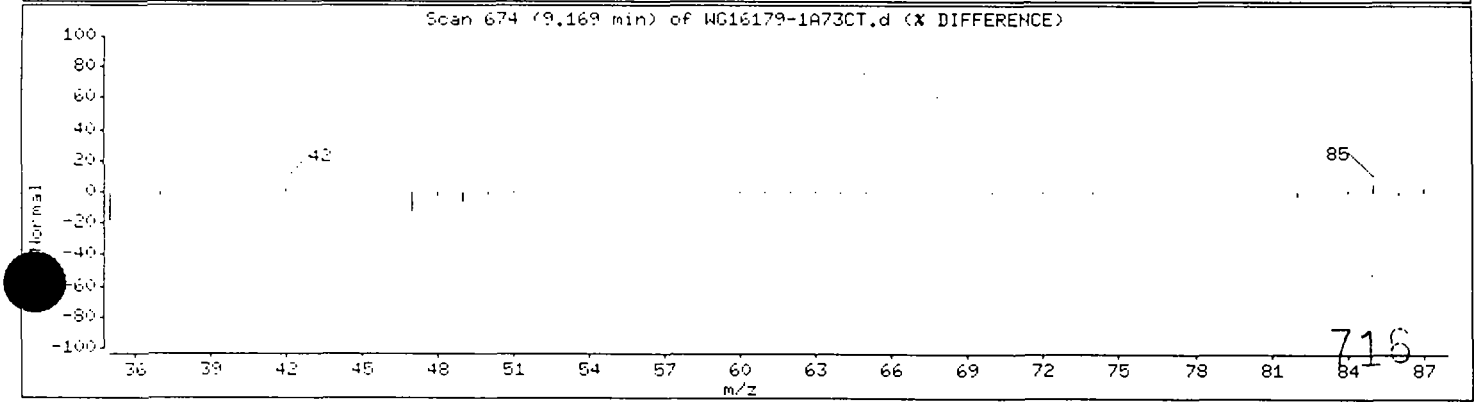
42 Chloroform

Concentration: 0.255 ug/L









Data File: /chem/5972hp73.i/DF020314A73.b/WG16179-1A73CT.d

Date : 14-MAR-2002 10:34

Client ID: VBLKZM

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

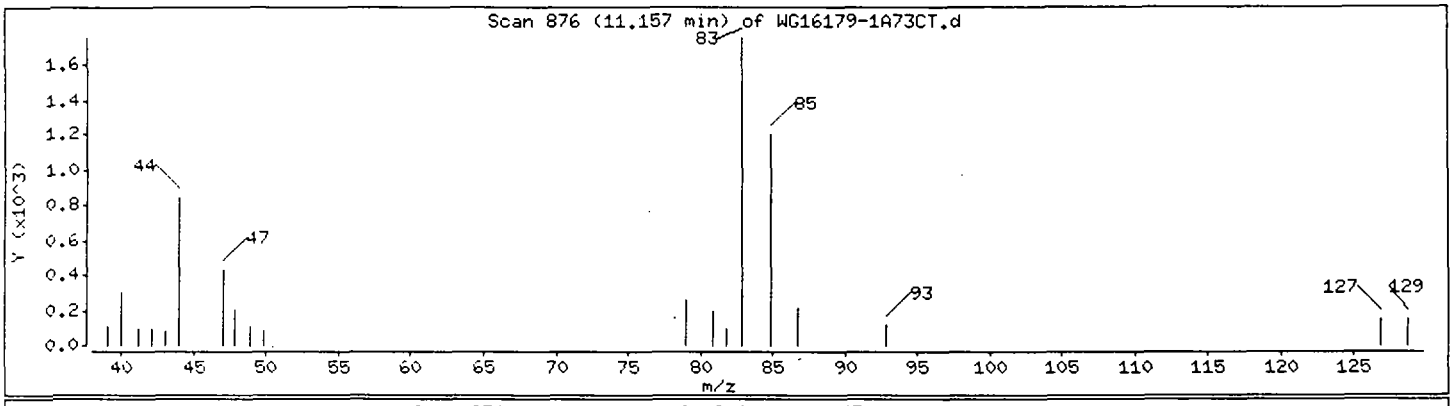
Operator: 2323

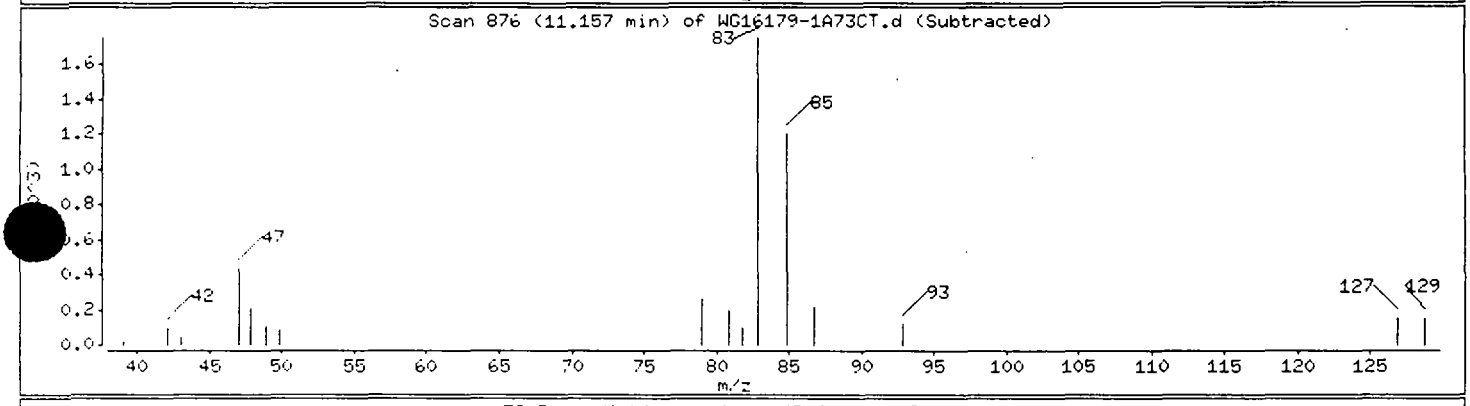
Column phase: ZB-624

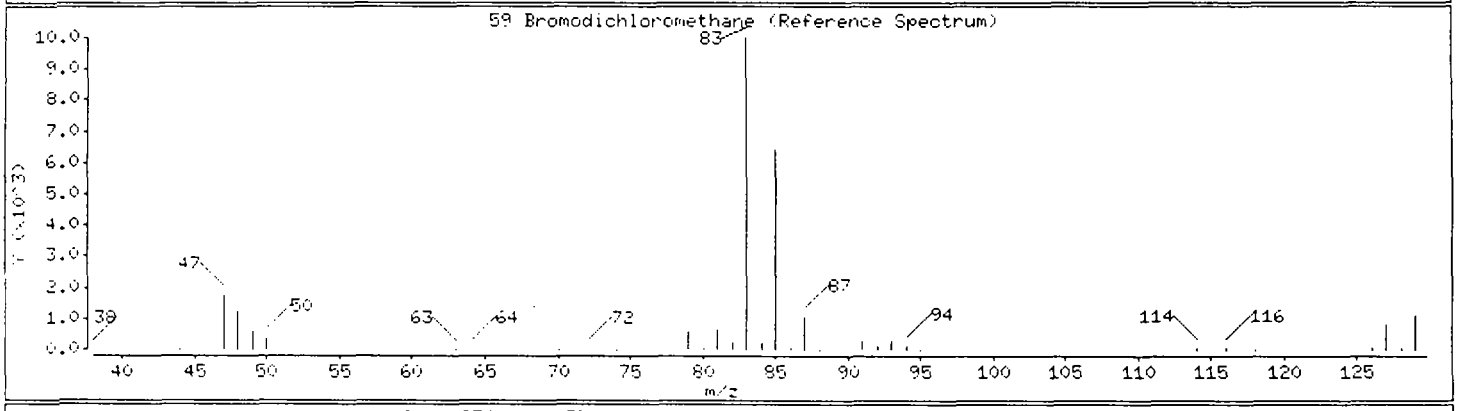
Column diameter: 0.32

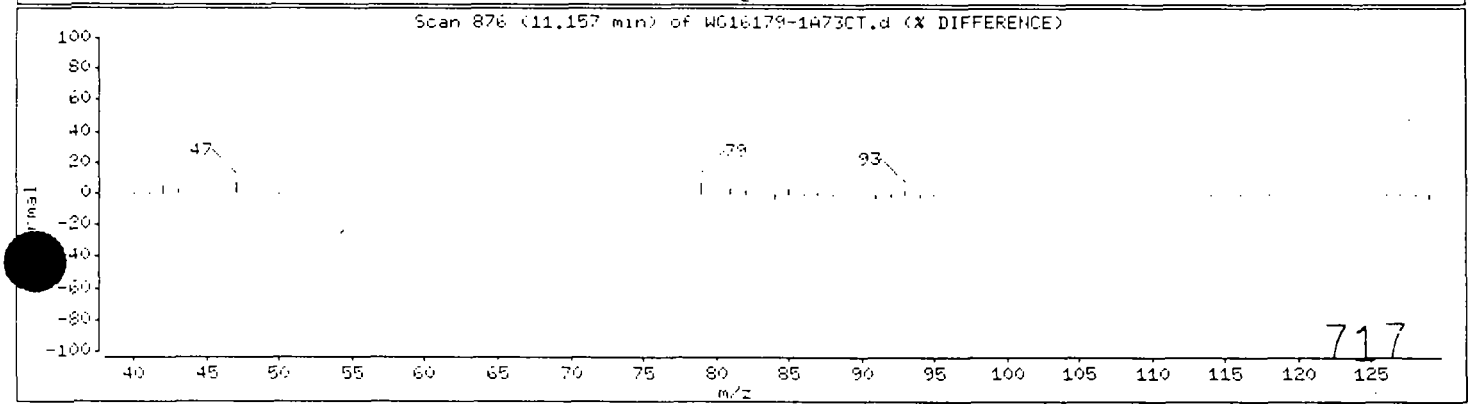
59 Bromodichloromethane

Concentration: 0.169 ug/L









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Data File: /chem/5972hp73.i/DF020314A73.b/WG16179-1A73CT.d

Date : 14-MAR-2002 10:34

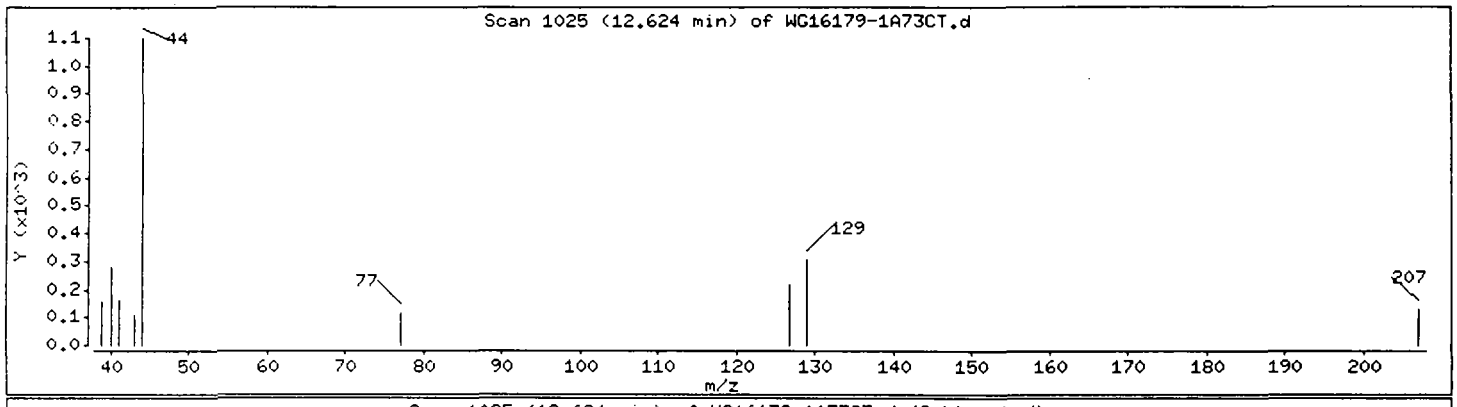
Client ID: VBLKZM | Instrument: 5972hp73.i

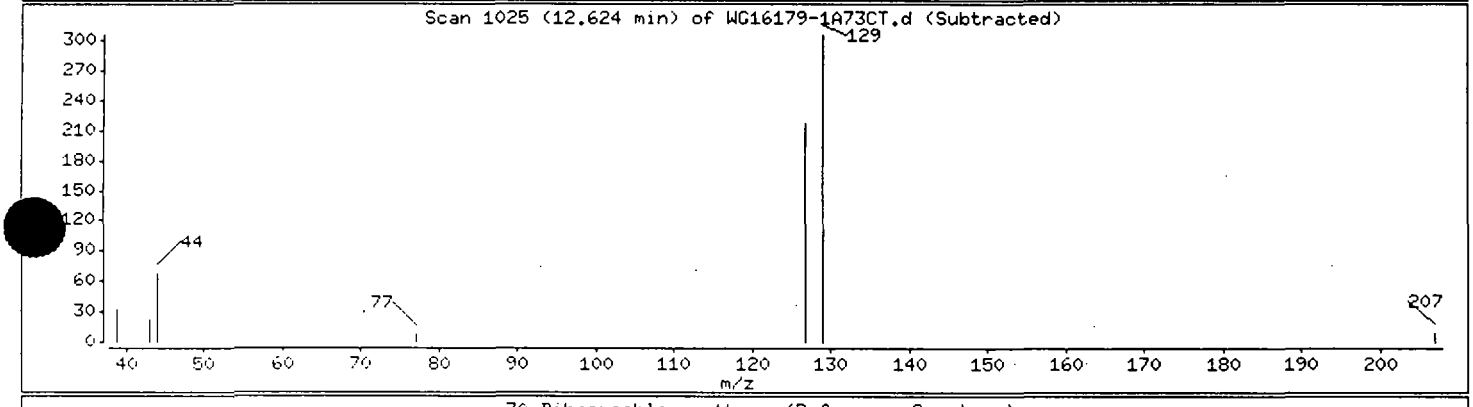
Sample Info:

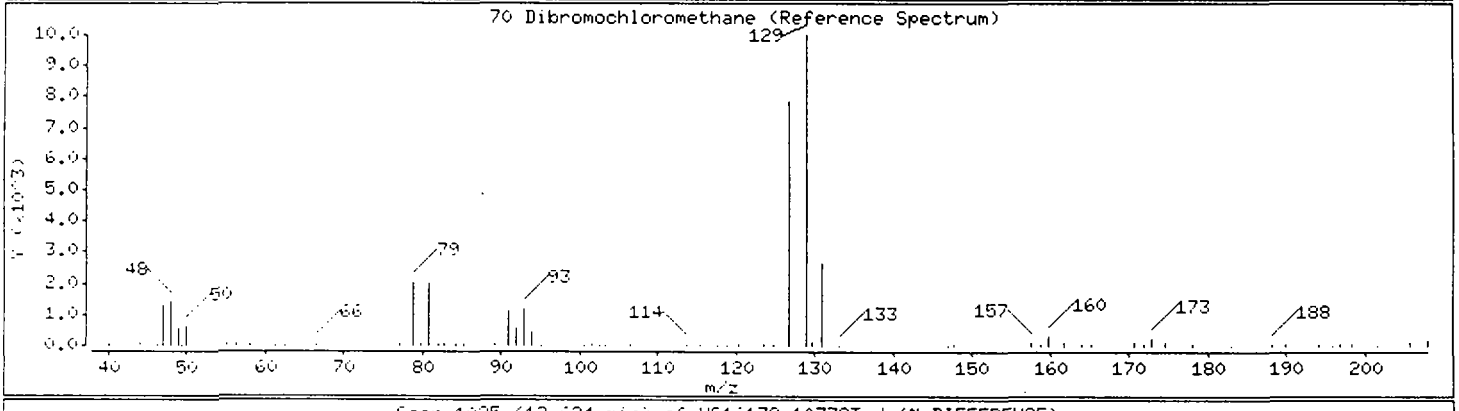
Purge Volume: 25.0 | Operator: 2323

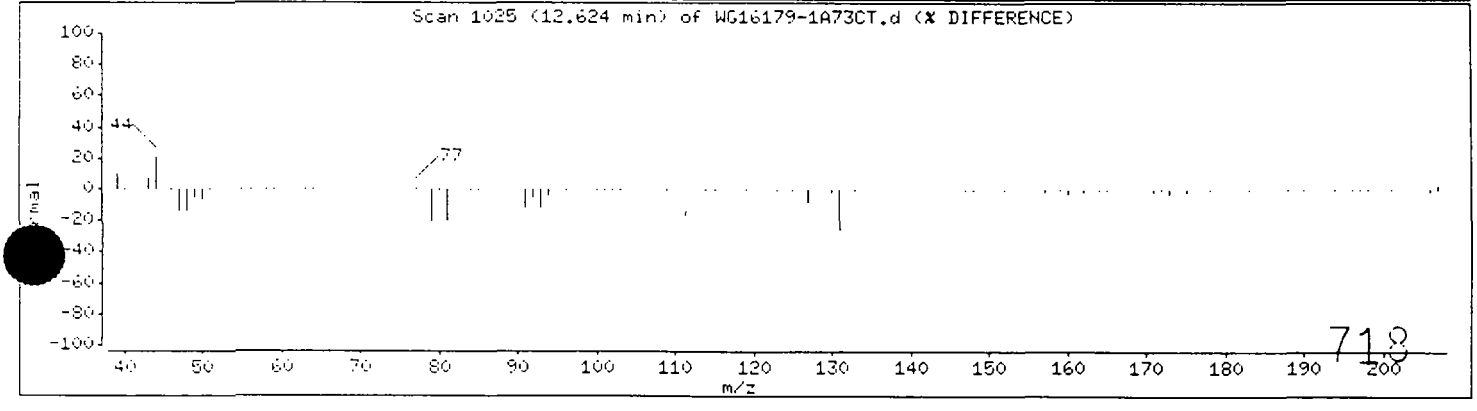
Column phase: ZB-624 | Column diameter: 0.32

70 Dibromochloromethane | Concentration: 0.0425 ug/L









Data File: /chem/5972hp73.i/DF020314A73.b/WG16179-1A73CT.d

Date : 14-MAR-2002 10:34

Client ID: VBLKZM

Instrument: 5972hp73.i

Sample Info:

Purge Volume: 25.0

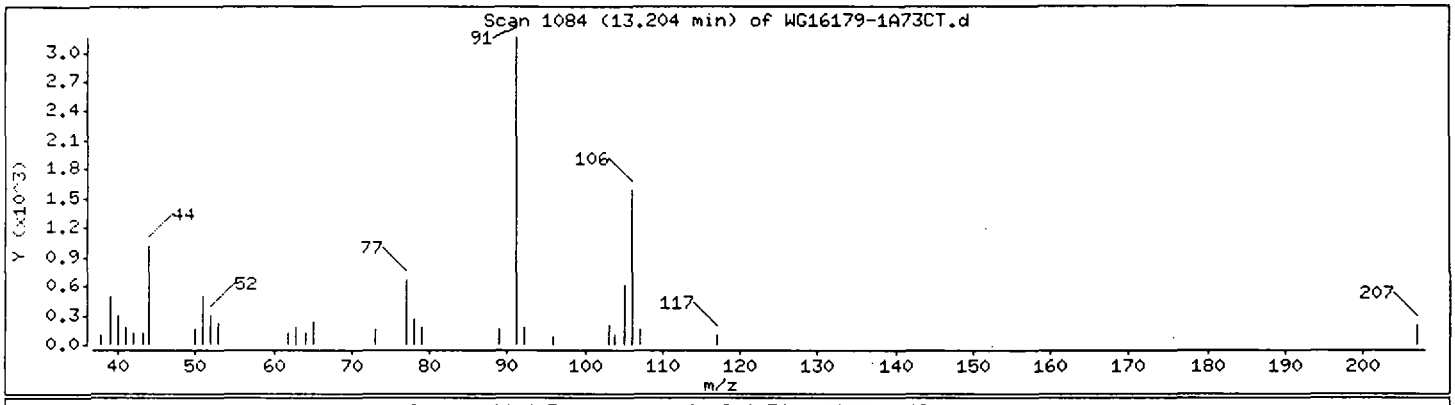
Operator: 2323

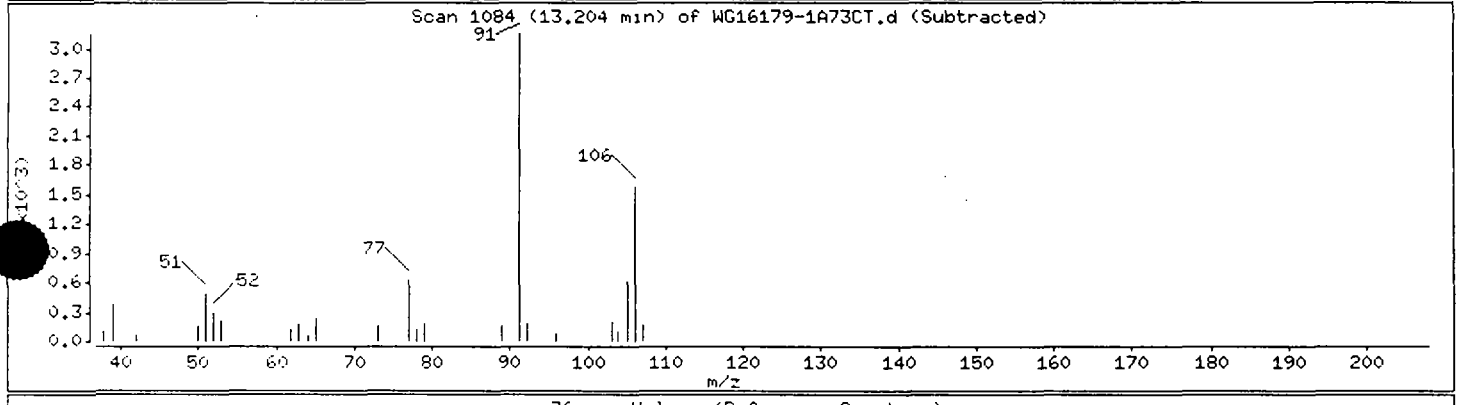
Column phase: ZB-624

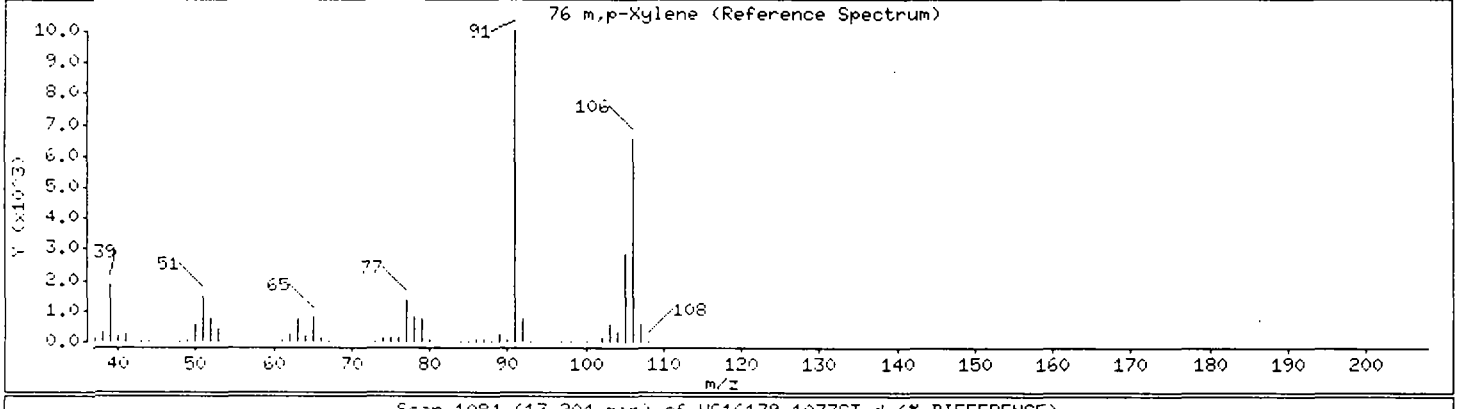
Column diameter: 0.32

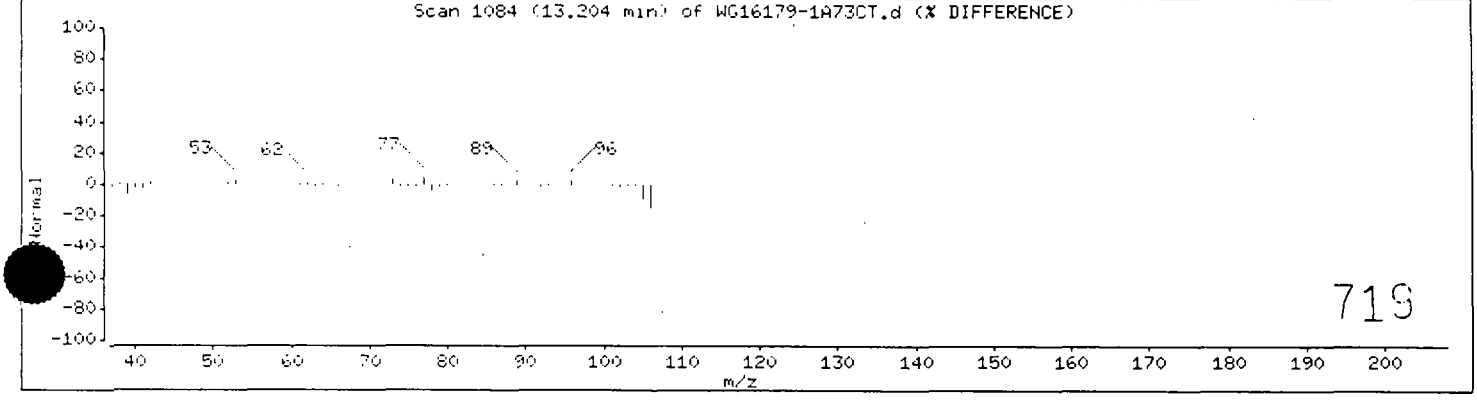
76 m,p-Xylene

Concentration: 0.0832 ug/L









719

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKZT

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: WG16203-1

Sample wt/vol: 25 (g/ml) ML Lab File ID: WG16203-1R2A71CT

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/13/02

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-15-0	Carbon disulfide	0.5	U
67-64-1	Acetone	2	J
75-09-2	Methylene Chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-butanone	3	U
67-66-3	Chloroform	0.08	J
71-55-6	1,1,1-Trichloroethane	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
71-43-2	Benzene	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	3	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachlorcethene	0.5	U
591-78-6	2-hexanone	3	U
124-48-1	Dibromochloromethane	0.03	J
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.03	J
108-38-3	m,p-Xylene	0.1	J
95-47-6	o-Xylene	0.5	U
100-42-5	Styrene	0.5	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKZT

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: WG16203-1

Sample wt/vol: 25 (g/ml) ML Lab File ID: WG16203-1R2A71CT

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/13/02

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

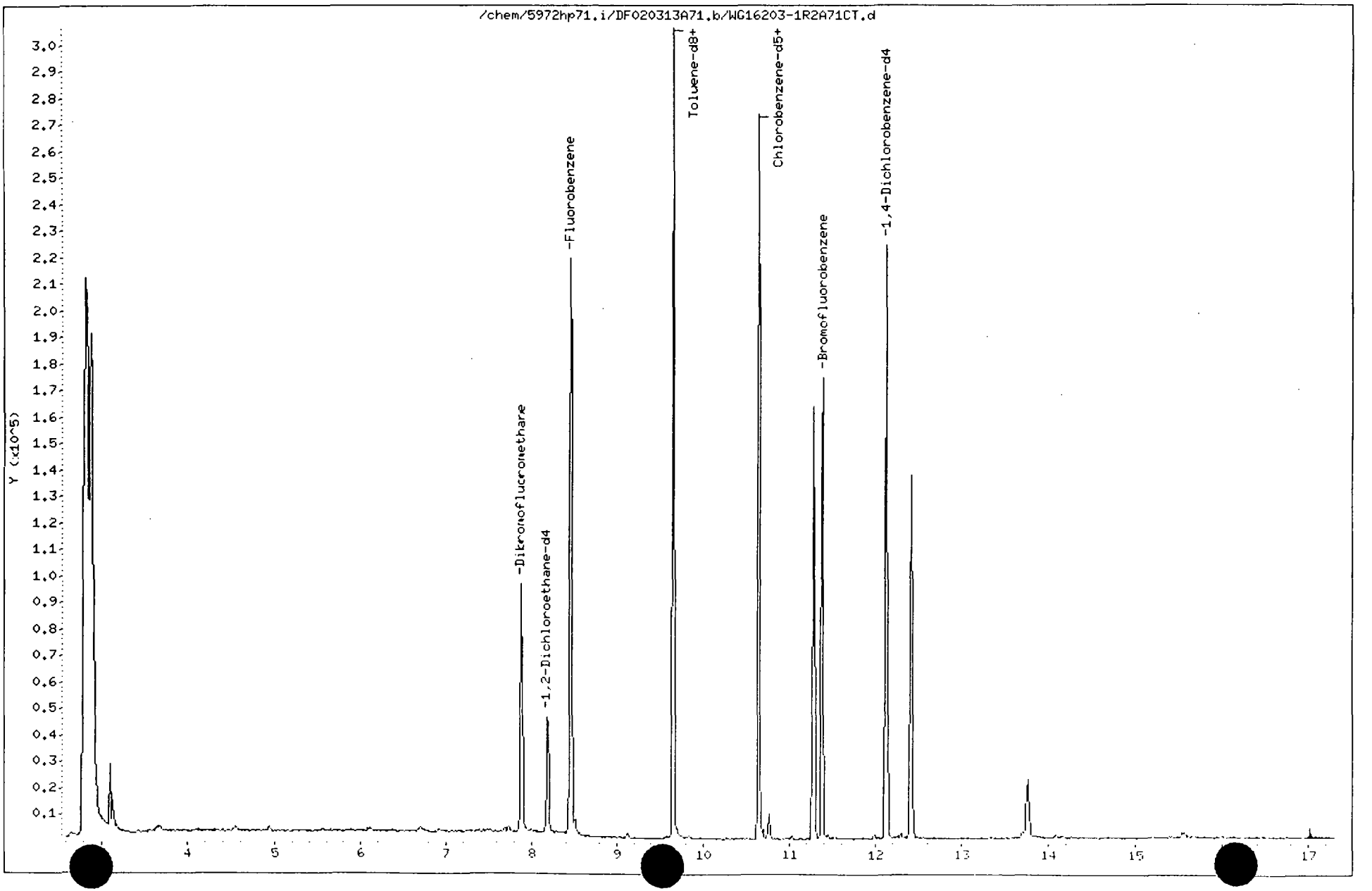
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-25-2	Bromoform	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
1330-20-7	Xylene (total)	0.2	J

Data File: /chem/5972hp71.i/DF020313A71.b/WG16203-1R2A71CT.d
Date : 13-MAR-2002 11:33
Client ID: VBLKZT
Sample Info:
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp71.i

Operator: 2423
Column diameter: 0.32



Data File: /chem/5972hp71.i/DF020313A71.b/WG16203-1R2A71CT.d
Report Date: 18-Mar-2002 13:51

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp71.i/DF020313A71.b/WG16203-1R2A71CT.d
Lab Smp Id: WG16203-1 Client Smp ID: VBLKZT
Inj Date : 13-MAR-2002 11:33
Operator : 2423 Inst ID: 5972hp71.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp71.i/DF020313A71.b/W8260-B-25MLv6.m
Meth Date : 18-Mar-2002 13:44 mead Quant Type: ISTD
Cal Date : 12-MAR-2002 10:36 Cal File: CX020312A71.d
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL3CT.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	8.453	8.454	(1.000)	182513	125.000	
* 2 Chlorobenzene-d5	117	10.647	10.649	(1.000)	127647	125.000	
* 3 1,4-Dichlorobenzene-d4	152	12.114	12.115	(1.000)	* 54305	125.000	
S 4 Dibromofluoromethane	113	7.882	7.884	(0.932)	58145	127.018	5.08
S 5 1,2-Dichloroethane-d4	65	8.178	8.179	(0.967)	27091	122.298	4.89
S 6 Toluene-d8	98	9.654	9.655	(0.907)	160984	146.741	5.87
S 7 Bromofluorobenzene	95	11.376	11.367	(0.939)	54203	140.100	5.60
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
14 1,1-Dichloroethene	96	Compound Not Detected.					
21 Carbon disulfide	76	Compound Not Detected.					
19 Acetone	43	5.571	5.562	(0.659)	1601	48.4082	1.94(a)
24 Methylene Chloride	84	Compound Not Detected.					
27 trans-1,2-Dichloroethene	96	Compound Not Detected.					

Rhee 3/13/2

723

Data File: /chem/5972hp71.i/DF020313A71.b/WG16203-1R2A71CT.d
Report Date: 18-Mar-2002 13:51

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
30 1,1-Dichloroethane	63	Compound Not Detected.					
34 cis-1,2-Dichloroethene	96	Compound Not Detected.					
37 2-butanone	43	Compound Not Detected.					
42 Chloroform	83	7.735	7.736	(0.915)	1300	1.94089	0.0776(a)
43 1,1,1-Trichloroethane	97	Compound Not Detected.					
48 Carbon Tetrachloride	117	Compound Not Detected.					
51 Benzene	78	Compound Not Detected.					
49 1,2-Dichloroethane	62	Compound Not Detected.					
53 Trichloroethene	130	Compound Not Detected.					
55 1,2-Dichloropropane	63	Compound Not Detected.					
59 Bromodichloromethane	83	Compound Not Detected.					
61 cis-1,3-Dichloropropene	75	Compound Not Detected.					
62 4-Methyl-2-pentanone	43	Compound Not Detected.					
63 Toluene	92	Compound Not Detected.					
64 trans-1,3-Dichloropropene	75	Compound Not Detected.					
65 1,1,2-Trichloroethane	97	Compound Not Detected.					
68 Tetrachloroethene	164	Compound Not Detected.					
69 2-hexanone	43	Compound Not Detected.					
70 Dibromochloromethane	129	10.274	10.265	(0.965)	206	0.72659	0.0291(a)
72 Chlorobenzene	112	Compound Not Detected.					
75 Ethylbenzene	106	10.706	10.708	(1.006)	502	0.86280	0.0345(a)
76 m,p-Xylene	106	10.775	10.767	(1.012)	2755	3.26143	0.130(a)
77 o-Xylene	106	Compound Not Detected.					
78 Styrene	104	Compound Not Detected.					
79 Bromoform	173	Compound Not Detected.					
82 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
M 107 Xylene (total)	106				2755	4.18561	0.167(a)

QC Flag Legend

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

Data File: /chem/5972hp71.i/DF020313A71.b/WG16203-1R2A71CT.d

Date : 13-MAR-2002 11:33

Client ID: VBLKZT

Instrument: 5972hp71.i

Sample Info:

Purge Volume: 25.0

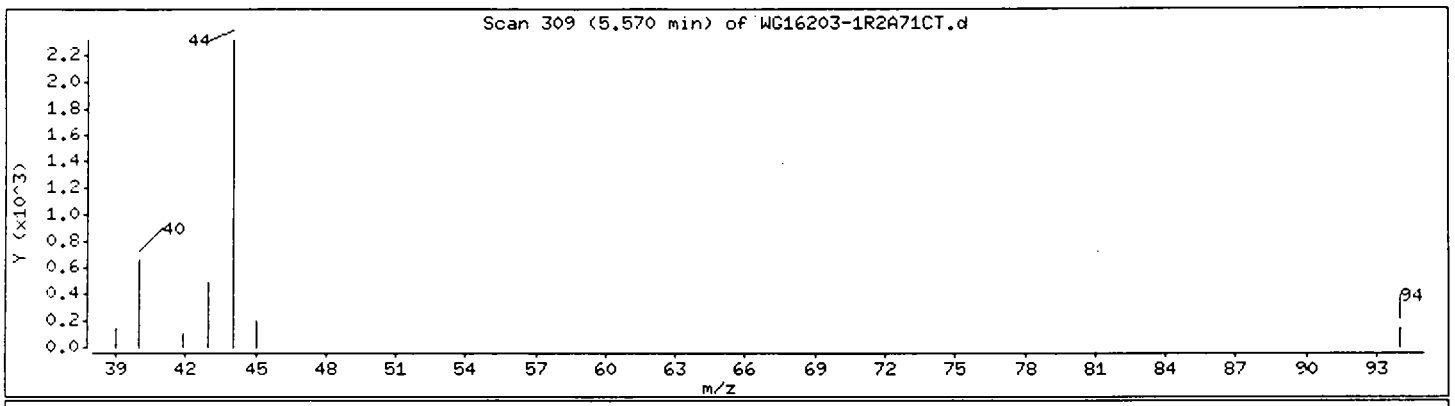
Operator: 2423

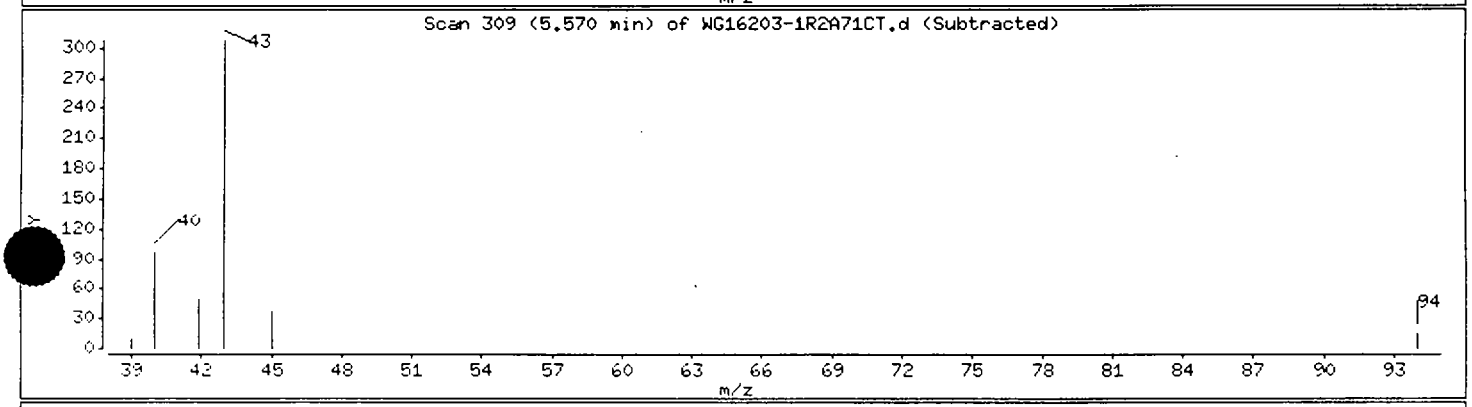
Column phase: SPB-624

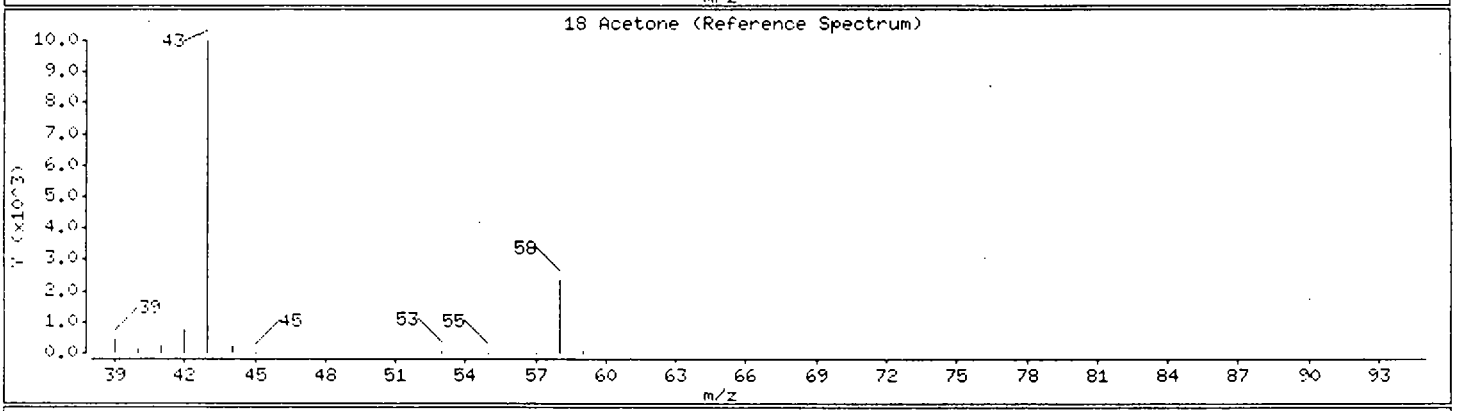
Column diameter: 0.32

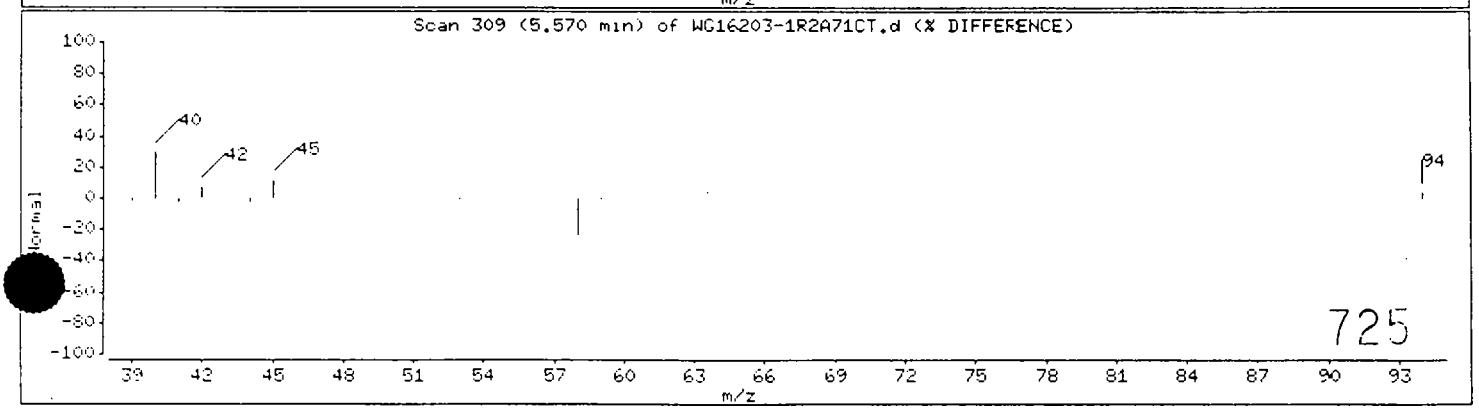
18 Acetone

Concentration: 1.94 ug/L









725

Data File: /chem/5972hp71.i/DF020313A71.b/WG16203-1R2A71CT.d

Date : 13-MAR-2002 11:33

Client ID: VBLKZT

Instrument: 5972hp71.i

Sample Info:

Purge Volume: 25.0

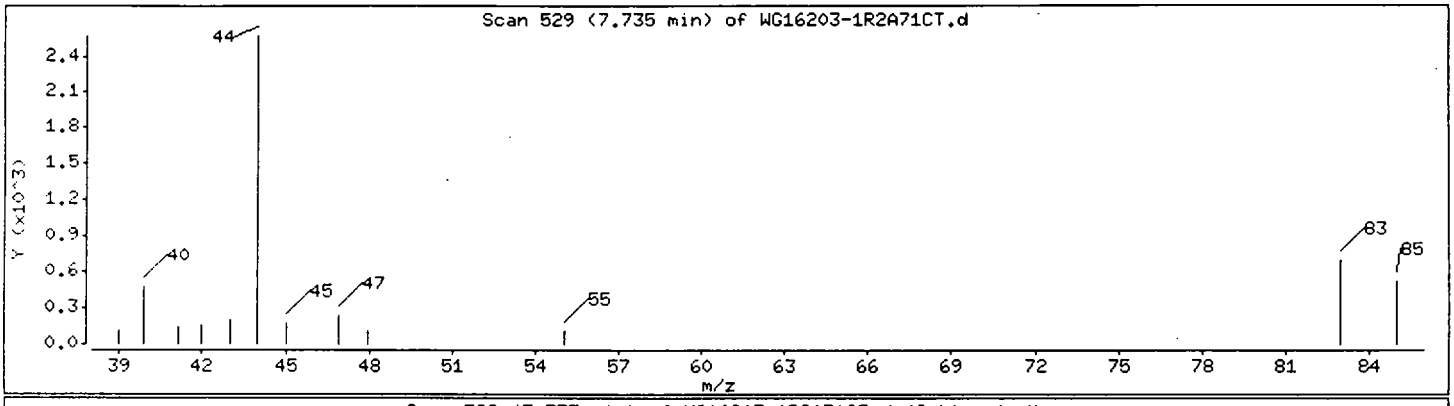
Operator: 2423

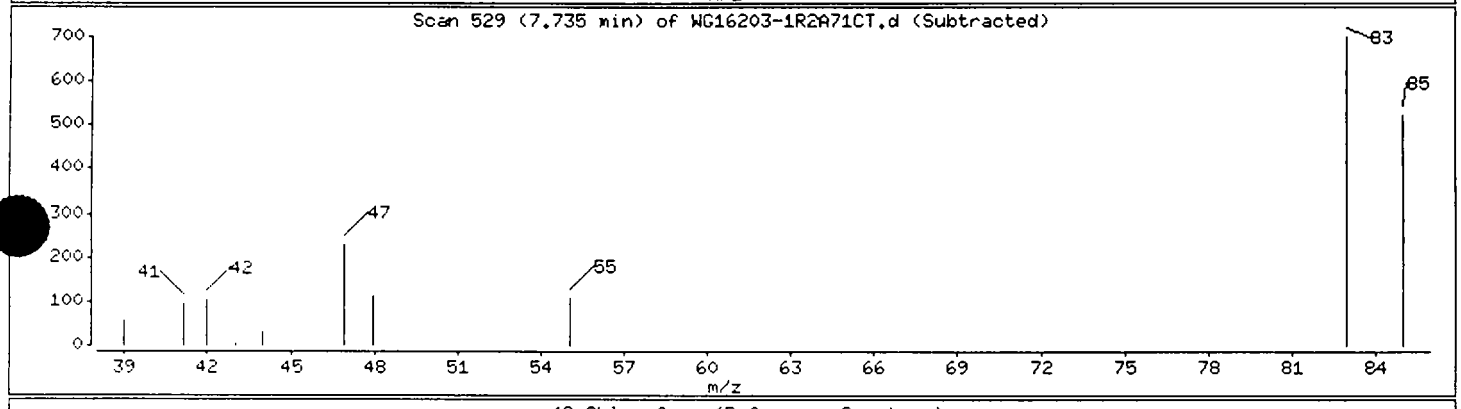
Column phase: SPB-624

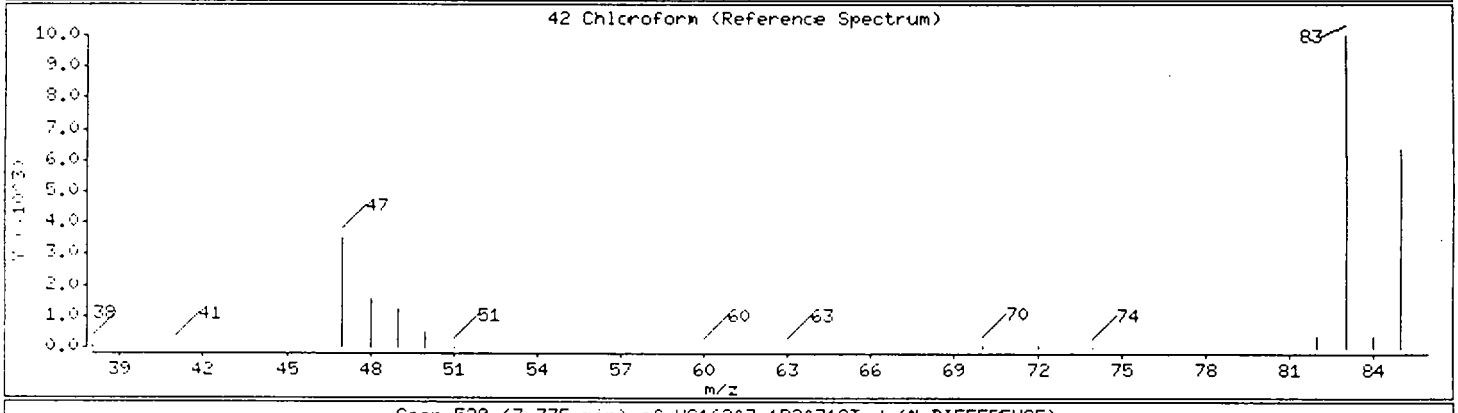
Column diameter: 0.32

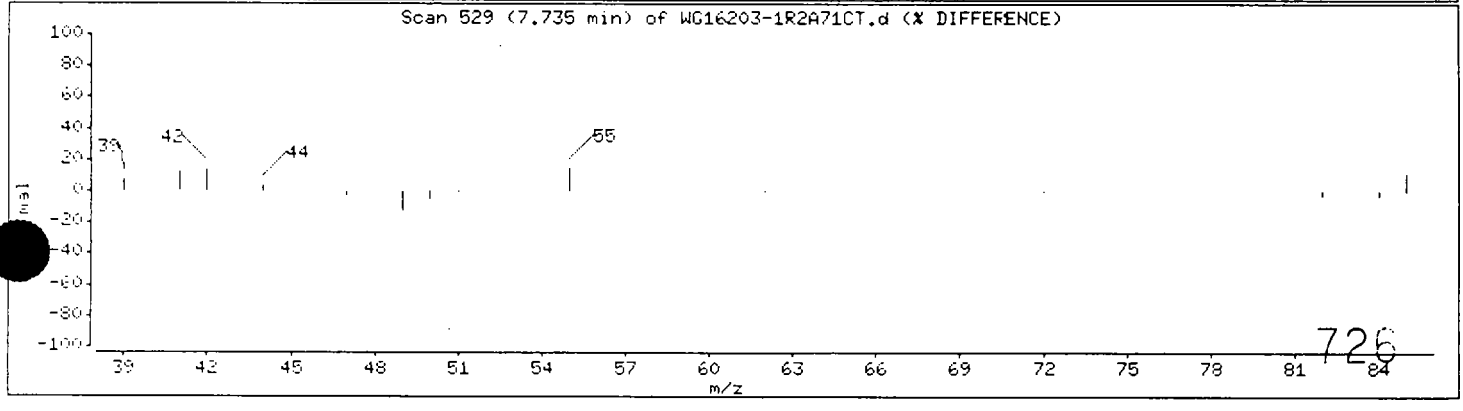
42 Chloroform

Concentration: 0.0776 ug/L









Data File: /chem/5972hp71.i/DF020313A71.b/WG16203-1R2A71CT.d

Date : 13-MAR-2002 11:33

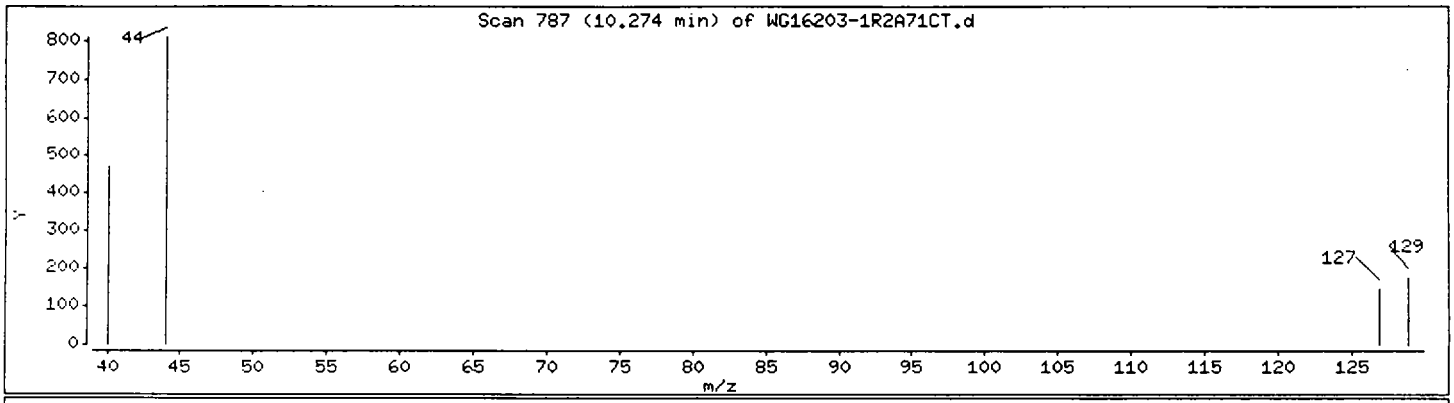
Client ID: VBLKZT | Instrument: 5972hp71.i

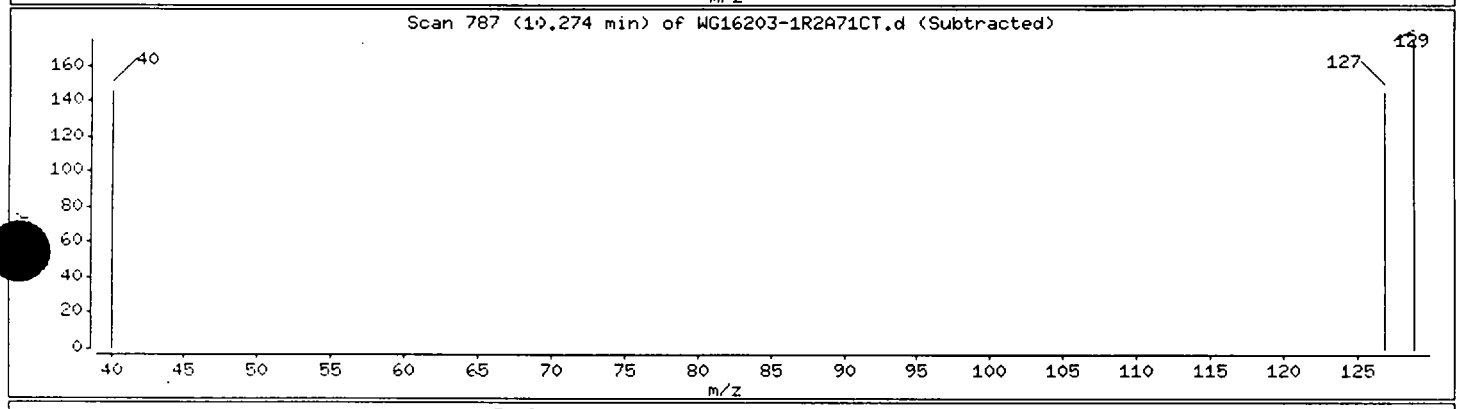
Sample Info:

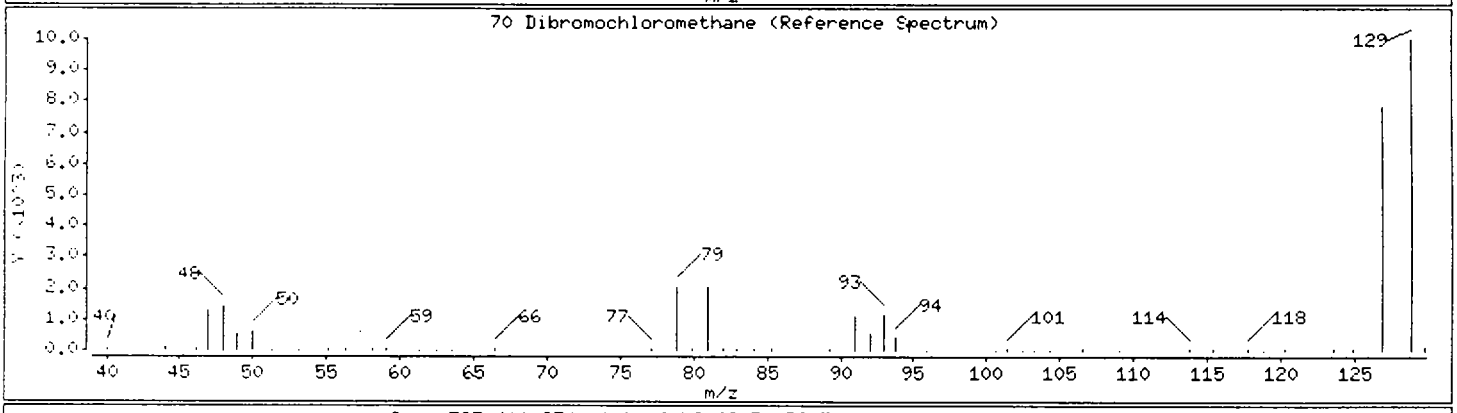
Purge Volume: 25.0 | Operator: 2423

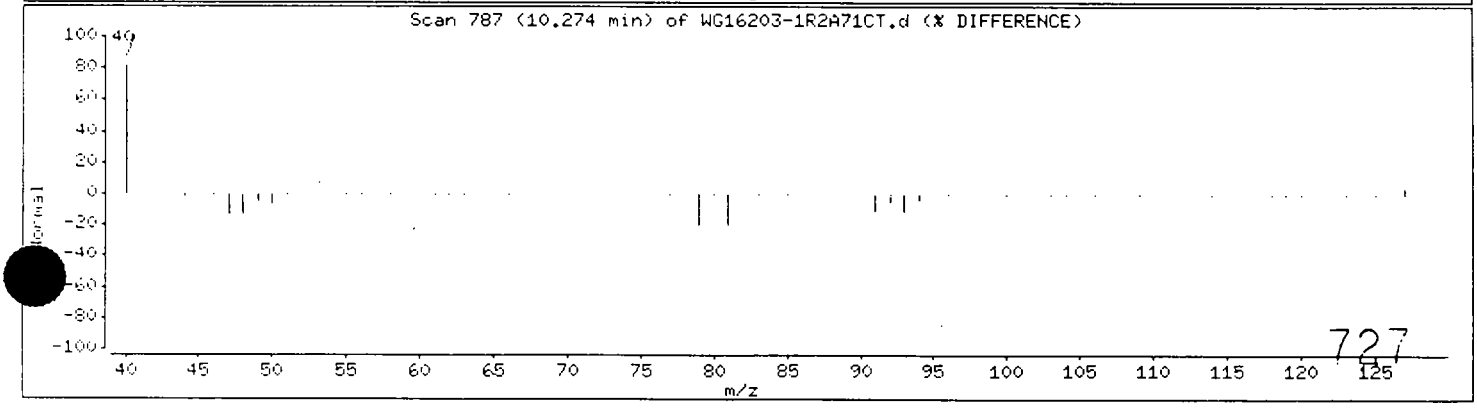
Column phase: SPB-624 | Column diameter: 0.32

70 Dibromochloromethane | Concentration: 0.0291 ug/L









727

Data File: /chem/5972hp71.i/DF020313A71.b/WG16203-1R2A71CT.d

Date : 13-MAR-2002 11:33

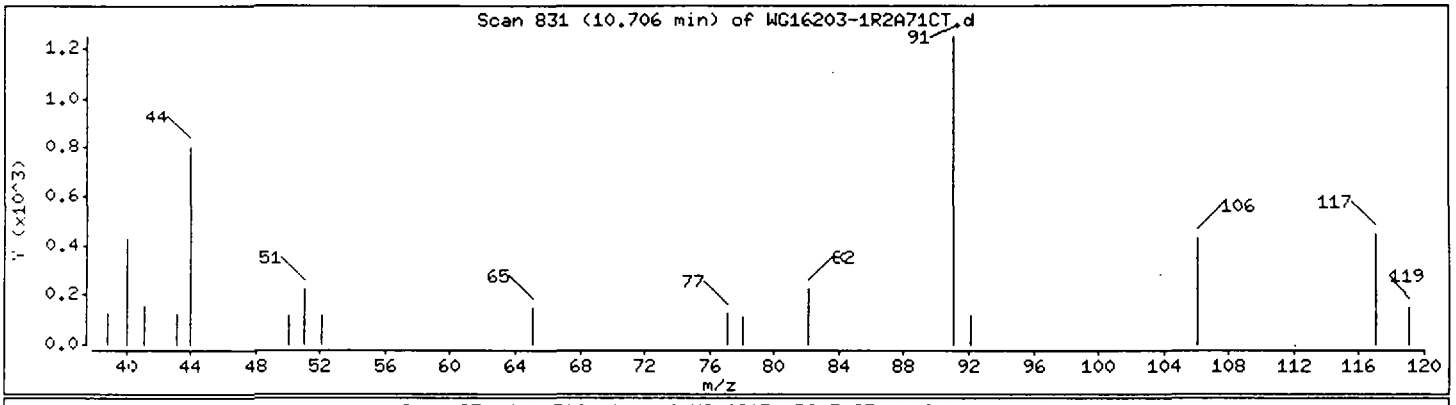
Client ID: VBLKZT | Instrument: 5972hp71.i

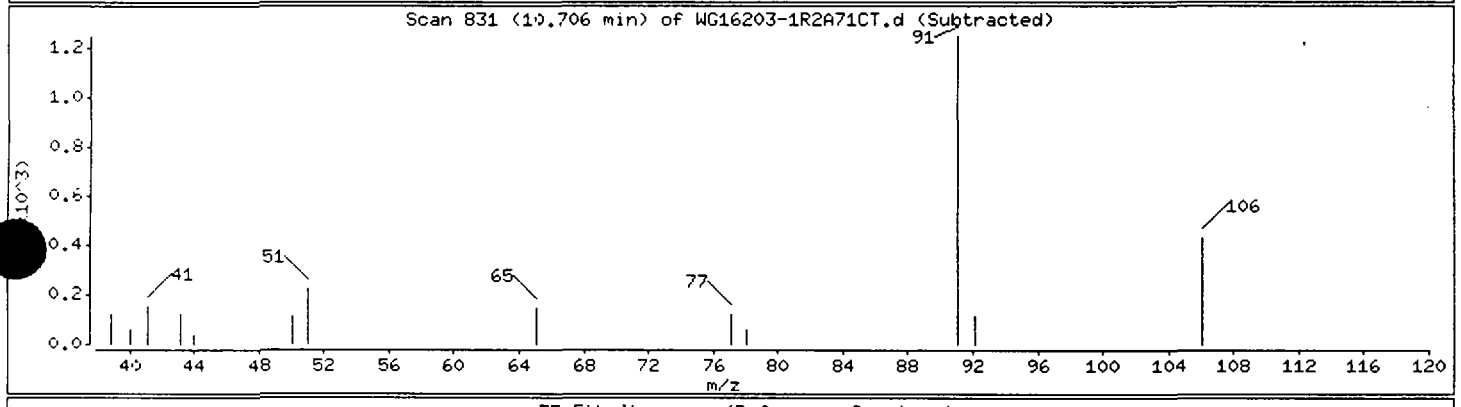
Sample Info:

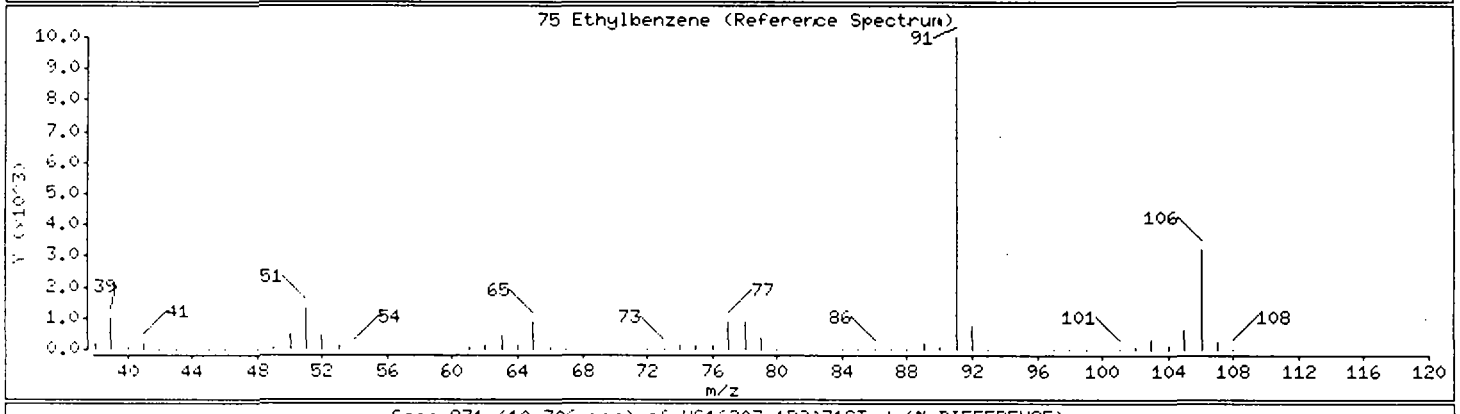
Purge Volume: 25.0 | Operator: 2423

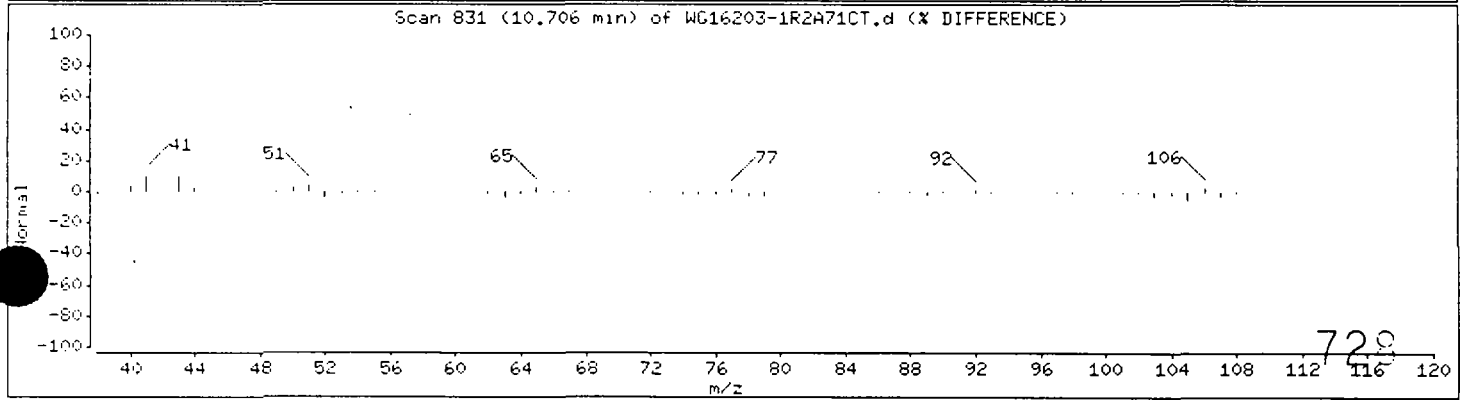
Column phase: SPB-624 | Column diameter: 0.32

75 Ethylbenzene | Concentration: 0.0345 ug/L









Data File: /chem/5972hp71.i/DF020313A71.b/WG16203-1R2A71CT.d

Date : 13-MAR-2002 11:33

Client ID: VBLKZT

Instrument: 5972hp71.i

Sample Info:

Purge Volume: 25.0

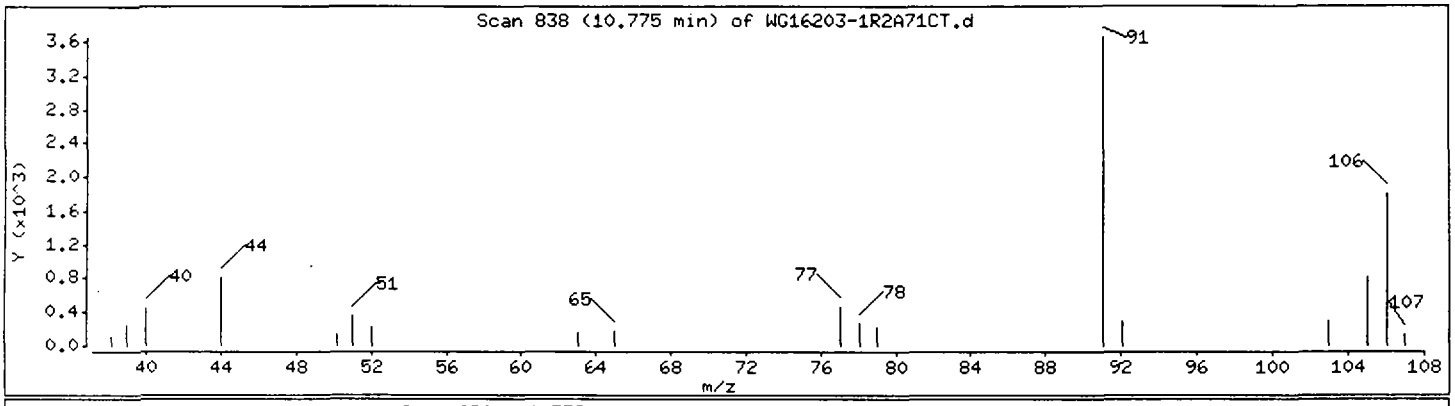
Operator: 2423

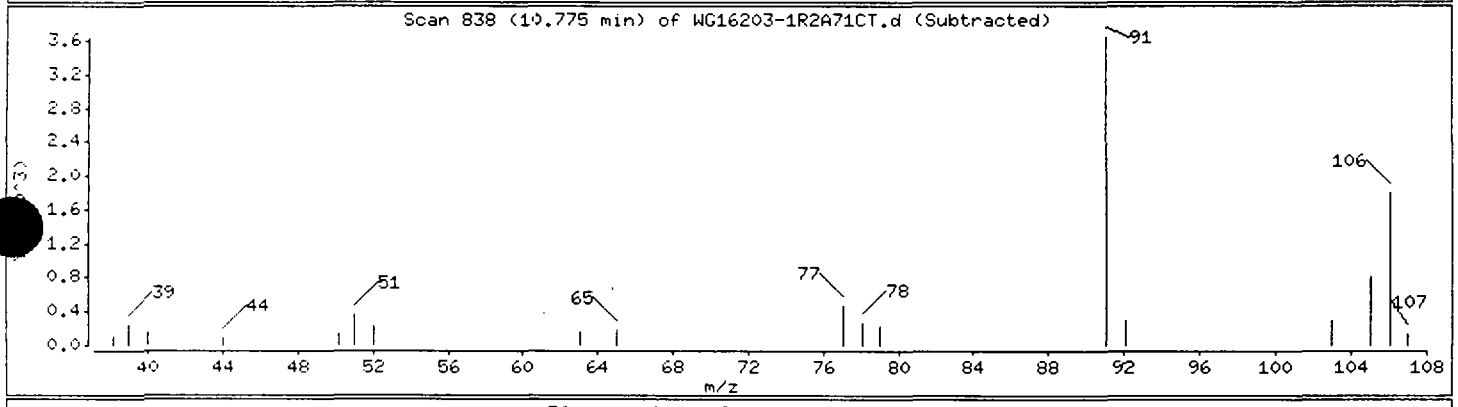
Column phase: SPB-624

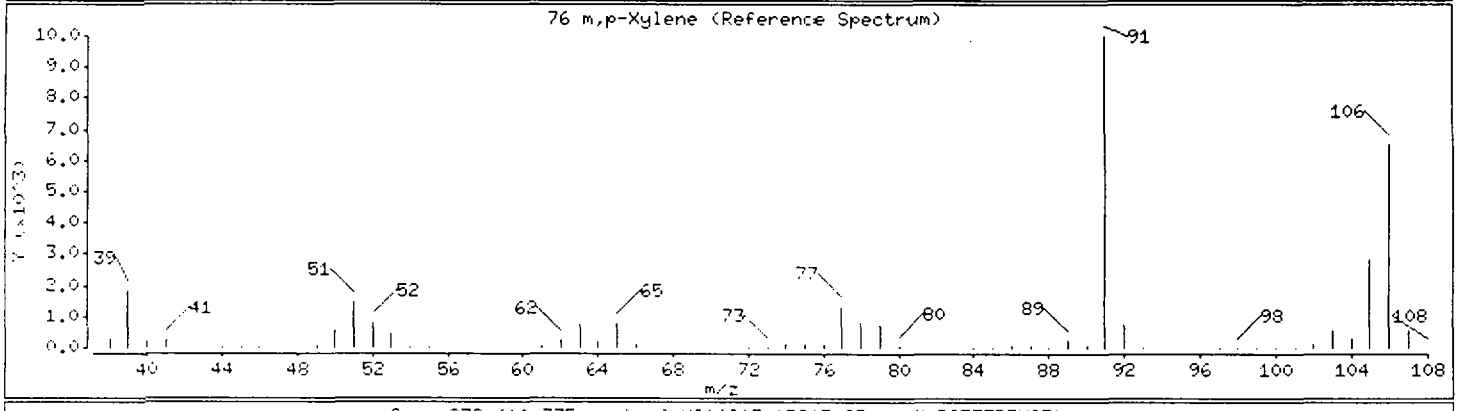
Column diameter: 0.32

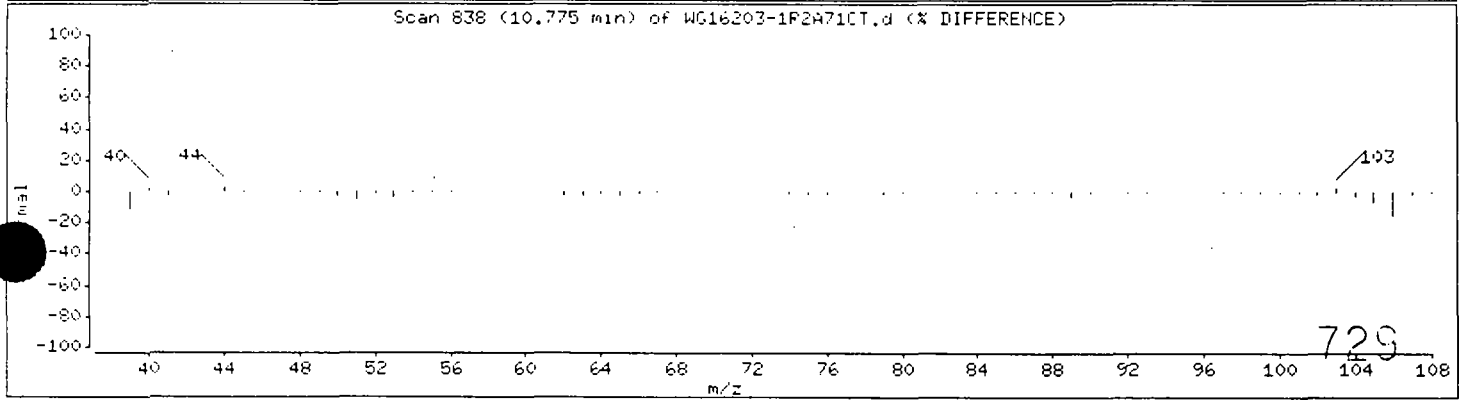
76 m,p-Xylene

Concentration: 0.130 ug/L









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c. Laboratory Control Sample Data

- Tabulated Results (Form I VOA)

- Reconstructed Ion Chromatogram and quantitation report

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VZDLCS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: WG16157-4

Sample wt/vol: 25 (g/ml) ML Lab File ID: WG16157-4A73CT

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/07/02

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-35-4	1,1-Dichloroethene	5	
75-15-0	Carbon disulfide	0.5	U
67-64-1	Acetone	1	JB
75-09-2	Methylene Chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-butanone	3	U
67-66-3	Chloroform	0.07	JB
71-55-6	1,1,1-Trichloroethane	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
71-43-2	Benzene	5	
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	4	
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	3	U
108-88-3	Toluene	5	
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
591-78-6	2-hexanone	3	U
124-48-1	Dibromochloromethane	0.5	U
108-90-7	Chlorobenzene	5	
100-41-4	Ethylbenzene	0.5	U
108-38-3	m,p-Xylene	0.07	J
95-47-6	o-Xylene	0.5	U
100-42-5	Styrene	0.5	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VZDLCS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: WG16157-4

Sample wt/vol: 25 (g/ml) ML Lab File ID: WG16157-4A73CT

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/07/02

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

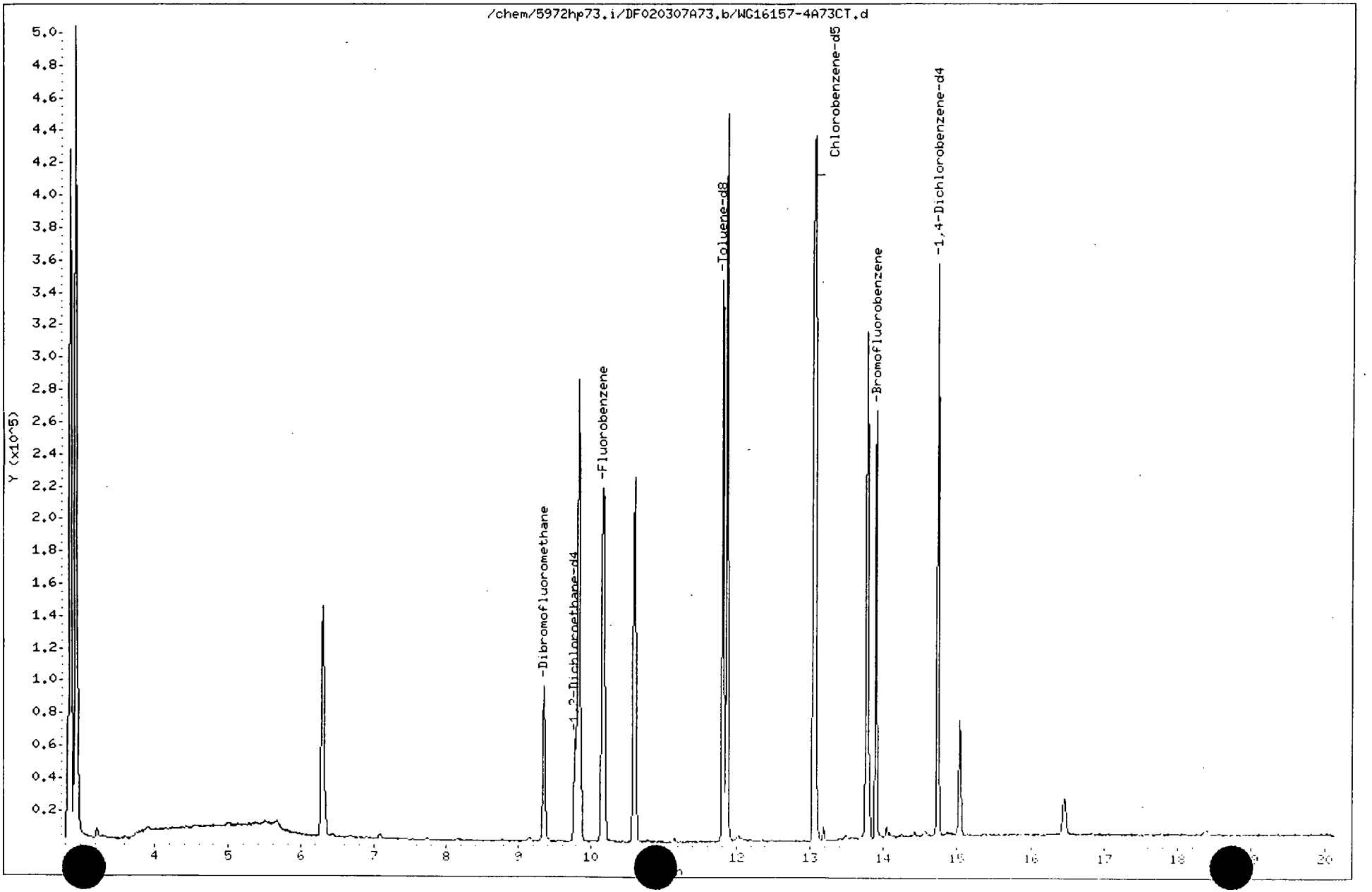
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-25-2	Bromoform	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
1330-20-7	Xylene (total)	0.08	J

Data File: /chem/5972hp73.i/DF020307A73.b/WG16157-4A73CT.d
Date : 07-MAR-2002 09:29
Client ID: VZDLCS
Sample Info:
Purge Volume: 25.0
Column phase: ZB-624

Instrument: 5972hp73.i

Operator: 2429
Column diameter: 0.32



Data File: /chem/5972hp73.i/DF020307A73.b/WG16157-4A73CT.d
Report Date: 08-Mar-2002 15:49

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF020307A73.b/WG16157-4A73CT.d
Lab Smp Id: WG16157-4 Client Smp ID: VZDLCS
Inj Date : 07-MAR-2002 09:29
Operator : 2429 Inst ID: 5972hp73.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp73.i/DF020307A73.b/W8260-B-25MLv6.m
Meth Date : 08-Mar-2002 13:55 hubbard Quant Type: ISTD
Cal Date : 22-FEB-2002 22:50 Cal File: CY020222B73.d
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL3CT.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

nd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	10.161	10.169	(1.000)	251465	125.000	
* 2 Chlorobenzene-d5	117	13.055	13.053	(1.000)	188206	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.738	14.736	(1.000)	93081	125.000	
4 Dibromofluoromethane	113	9.344	9.352	(0.920)	73622	126.237	5.05
5 1,2-Dichloroethane-d4	65	9.777	9.775	(0.962)	56338	113.758	4.55
6 Toluene-d8	98	11.805	11.813	(0.904)	230927	122.337	4.89
7 Bromofluorobenzene	95	13.901	13.899	(0.943)	84729	125.926	5.04
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
16 1,1-Dichloroethene	96	6.302	6.301	(0.620)	77562	114.746	4.59
21 Carbon disulfide	76	Compound Not Detected.					
18 Acetone	43	6.430	6.439	(0.633)	2702	26.1469	1.05(aM) 2
24 Methylene Chloride	84	Compound Not Detected.					

sat 3/8/02

Data File: /chem/5972hp73.i/DF020307A73.b/WG16157-4A73CT.d
Report Date: 08-Mar-2002 15:49

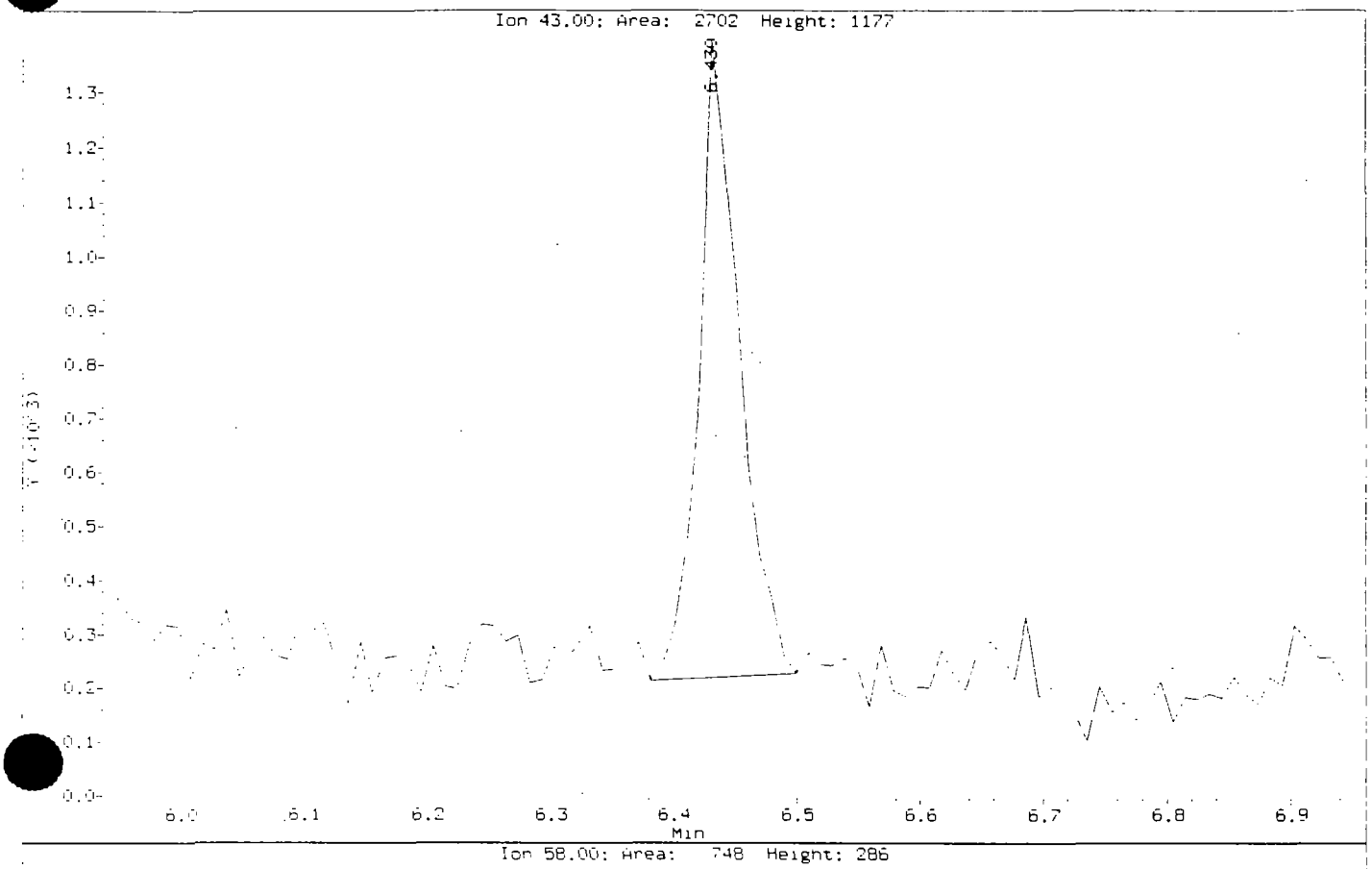
Compounds	QUANT SIG MASS.	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
27 trans-1,2-Dichloroethene	96	Compound Not Detected.					
30 1,1-Dichloroethane	63	Compound Not Detected.					
34 cis-1,2-Dichloroethene	96	Compound Not Detected.					
37 2-butanone	43	Compound Not Detected.					
42 Chloroform	83	9.147	9.145	(0.900)	2262	1.74323	0.0697(a)
43 1,1,1-Trichloroethane	97	Compound Not Detected.					
48 Carbon Tetrachloride	117	Compound Not Detected.					
51 Benzene	78	9.836	9.834	(0.968)	315256	114.286	4.57
49 1,2-Dichloroethane	62	Compound Not Detected.					
53 Trichloroethene	130	10.594	10.592	(1.043)	84980	108.967	4.36
55 1,2-Dichloropropane	63	Compound Not Detected.					
59 Bromodichloromethane	83	Compound Not Detected.					
61 cis-1,3-Dichloropropene	75	Compound Not Detected.					
62 4-Methyl-2-pentanone	43	Compound Not Detected.					
63 Toluene	92	11.873	11.872	(0.910)	189969	122.500	4.90
64 trans-1,3-Dichloropropene	75	Compound Not Detected.					
65 1,1,2-Trichloroethane	97	Compound Not Detected.					
68 Tetrachloroethene	164	Compound Not Detected.					
69 2-hexanone	43	Compound Not Detected.					
70 Dibromochloromethane	129	Compound Not Detected.					
72 Chlorobenzene	112	13.074	13.073	(1.002)	195347	122.837	4.91
75 Ethylbenzene	106	Compound Not Detected.					
76 m,p-Xylene	106	13.192	13.191	(1.011)	1945	1.77074	0.0708(a)
77 o-Xylene	106	Compound Not Detected.					
78 Styrene	104	Compound Not Detected.					
79 Bromoform	173	Compound Not Detected.					
82 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
M 107 Xylene (total)	106				1945	1.89309	0.0757(a)

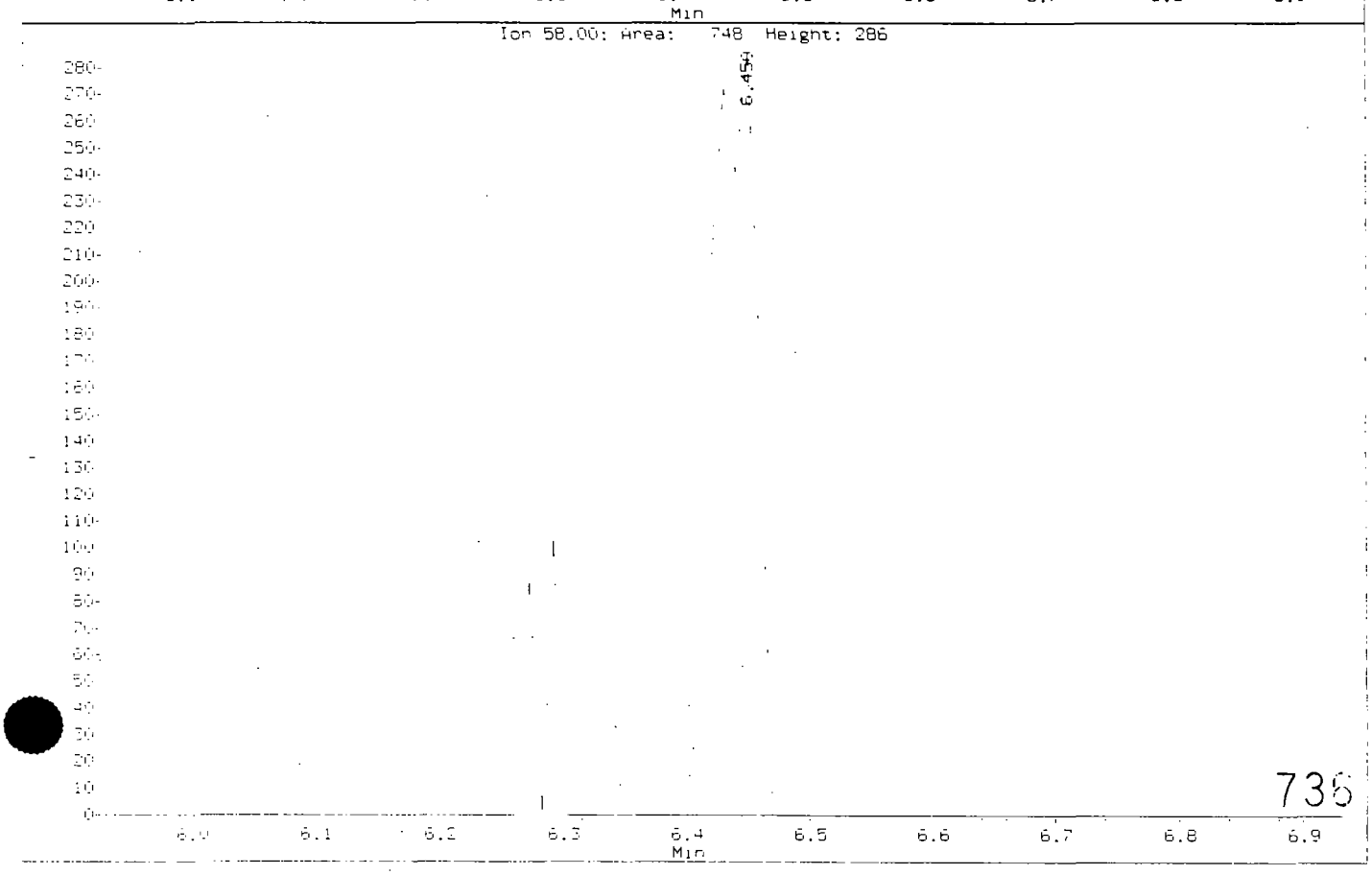
QC Flag Legend

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

Data File: /chem/5972hp73.1/DF020307A73.b/WG16157-4A73CT.d
Injection Date: 07-MAR-2002 09:29
Instrument: 5972hp73.1
Client Sample ID: VZDLCS

pound: Acetone
Number: 67-64-1





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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VZKLCS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: WG16179-4

Sample wt/vol: 25 (g/ml) ML Lab File ID: WG16179-4B73

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/07/02

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	4	
75-01-4	Vinyl Chloride	4	
74-83-9	Bromomethane	4	
75-00-3	Chloroethane	3	
75-35-4	1,1-Dichloroethene	4	
75-15-0	Carbon disulfide	4	
67-64-1	Acetone	22	B
75-09-2	Methylene Chloride	4	
156-60-5	trans-1,2-Dichloroethene	4	
75-34-3	1,1-Dichloroethane	4	
156-59-2	cis-1,2-Dichloroethene	4	
78-93-3	2-butanone	24	
67-66-3	Chloroform	4	
71-55-6	1,1,1-Trichloroethane	4	
56-23-5	Carbon Tetrachloride	3	
71-43-2	Benzene	4	
107-06-2	1,2-Dichloroethane	4	
79-01-6	Trichloroethene	4	
78-87-5	1,2-Dichloropropane	4	
75-27-4	Bromodichloromethane	4	
10061-01-5	cis-1,3-Dichloropropene	4	
108-10-1	4-Methyl-2-pentanone	22	
108-88-3	Toluene	4	
10061-02-6	trans-1,3-Dichloropropene	4	
79-00-5	1,1,2-Trichloroethane	4	
127-18-4	Tetrachloroethene	4	
591-78-6	2-hexanone	23	
124-48-1	Dibromochloromethane	4	
108-90-7	Chlorobenzene	4	
100-41-4	Ethylbenzene	4	B
108-38-3	m,p-Xylene	8	B
95-47-6	o-Xylene	4	B
100-42-5	Styrene	4	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VZKLCS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: WG16179-4

Sample wt/vol: 25 (g/ml) ML Lab File ID: WG16179-4B73

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/07/02

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-25-2	Bromoform	4	
79-34-5	1,1,2,2-Tetrachloroethane	4	
1330-20-7	Xylene (total)	13	B

Data File: /chem/5972hp73.i/DF020307B73.b/WG16179-4B73.d
Date : 07-MAR-2002 21:32
Client ID: VZKLCS
Sample Info:
Purge Volume: 25.0
Column phase: ZB-624

Instrument: 5972hp73.i

Operator: 2323
Column diameter: 0.32

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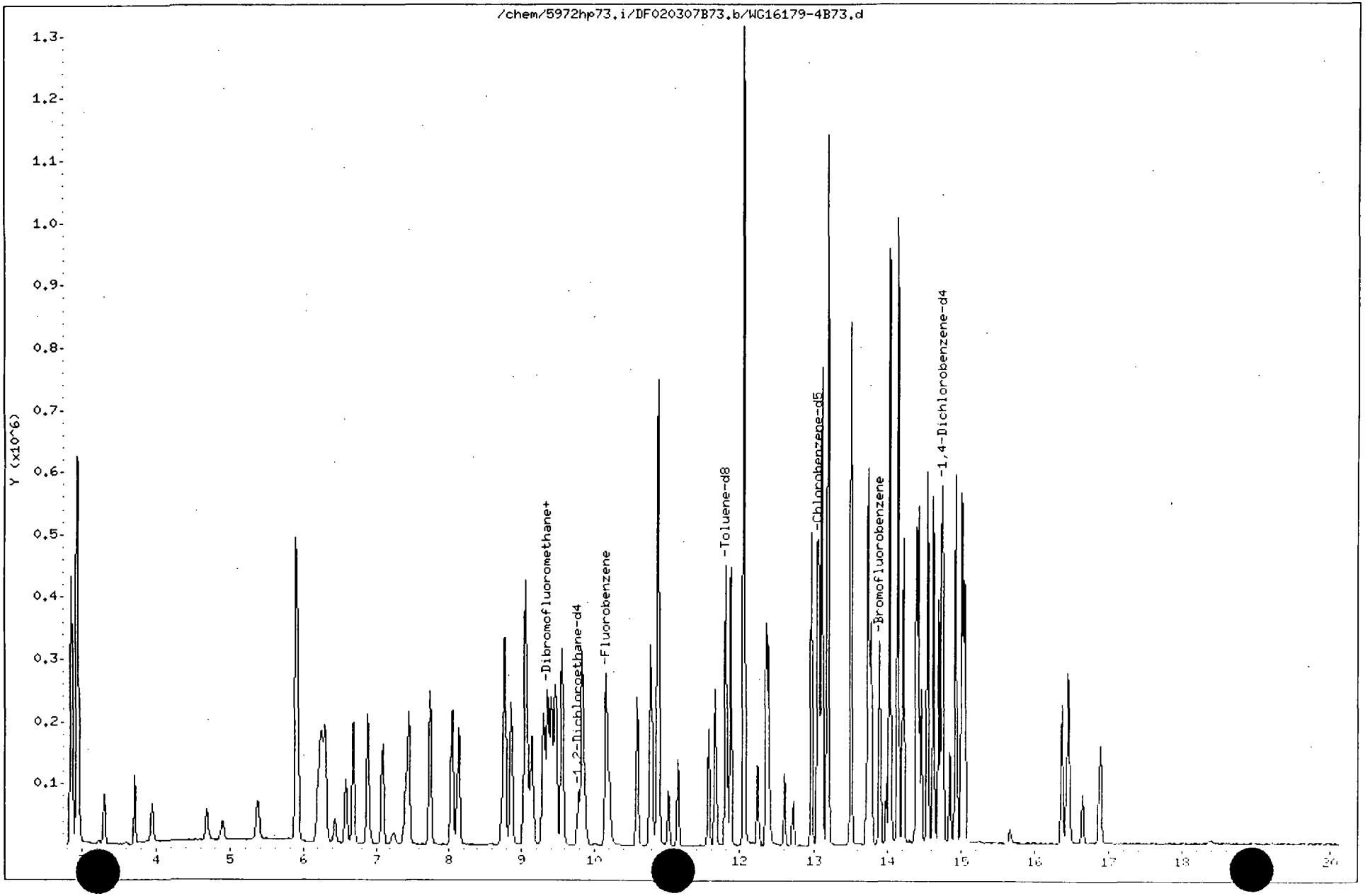


Data File: /chem/5972hp73.i/DF020307B73.b/WG16179-4B73.d
Report Date: 08-Mar-2002 13:12

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF020307B73.b/WG16179-4B73.d
Lab Smp Id: WG16179-4 Client Smp ID: VZKLCS
Inj Date : 07-MAR-2002 21:32
Operator : 2323 Inst ID: 5972hp73.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp73.i/DF020307B73.b/W8260-B-25MLv6.m
Meth Date : 08-Mar-2002 12:06 hubbard Quant Type: ISTD
Cal Date : 22-FEB-2002 22:50 Cal File: CY020222B73.d
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL3CT.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	10.163	10.171	(1.000)	308206	125.000	
* 2 Chlorobenzene-d5	117	13.047	13.055	(1.000)	233810	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.740	14.738	(1.000)	123645	125.000	
$ 4 Dibromofluoromethane	113	9.346	9.354	(0.920)	92319	129.153	5.17
$ 5 1,2-Dichloroethane-d4	65	9.779	9.778	(0.962)	70700	116.476	4.66
$ 6 Toluene-d8	98	11.807	11.815	(0.905)	289560	123.479	4.94
$ 7 Bromofluorobenzene	95	13.893	13.902	(0.943)	107860	120.678	4.83
9 Chloromethane	50	3.706	3.705	(0.365)	112271	101.303	4.05
10 Vinyl Chloride	62	3.952	3.951	(0.389)	78104	87.7231	3.51
11 Bromomethane	94	4.691	4.689	(0.462)	44979	108.138	4.33
12 Chloroethane	64	4.897	4.896	(0.482)	35108	84.3379	3.37
16 1,1-Dichloroethene	96	6.305	6.303	(0.620)	82546	99.6372	3.99
21 Carbon disulfide	76	6.689	6.687	(0.658)	353576	102.295	4.09
18 Acetone	43	6.433	6.431	(0.633)	68482	540.689	21.63
24 Methylene Chloride	84	7.092	7.091	(0.698)	84250	106.314	4.25

Scott 3/6/02

Data File: /chem/5972hp73.i/DF020307B73.b/WG16179-4B73.d
Report Date: 08-Mar-2002 13:12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
27 trans-1,2-Dichloroethene	96	7.456	7.455	(0.734)	89164	102.167	4.09
30 1,1-Dichloroethane	63	8.037	8.045	(0.791)	167374	102.961	4.12
34 cis-1,2-Dichloroethene	96	8.775	8.774	(0.863)	87970	104.626	4.19
37 2-butanone	43	8.775	8.774	(0.863)	95533	602.368	24.09
42 Chloroform	83	9.149	9.148	(0.900)	152508	95.8937	3.84
43 1,1,1-Trichloroethane	97	9.366	9.364	(0.922)	132655	88.5732	3.54
48 Carbon Tetrachloride	117	9.563	9.561	(0.941)	109797	84.8754	3.40
51 Benzene	78	9.838	9.837	(0.968)	346270	102.419	4.10
49 1,2-Dichloroethane	62	9.878	9.876	(0.972)	80991	92.7017	3.71
53 Trichloroethene	130	10.596	10.594	(1.043)	88982	93.0927	3.72
55 1,2-Dichloropropane	63	10.862	10.870	(1.069)	77493	109.789	4.39
59 Bromodichloromethane	83	11.147	11.146	(1.097)	92836	91.9992	3.68
61 cis-1,3-Dichloropropene	75	11.561	11.569	(1.138)	106156	97.0705	3.88
62 4-Methyl-2-pentanone	43	11.659	11.657	(0.894)	220980	559.677	22.39
63 Toluene	92	11.876	11.874	(0.910)	196027	101.751	4.07
64 trans-1,3-Dichloropropene	75	12.063	12.061	(0.925)	80941	97.5012	3.90
65 1,1,2-Trichloroethane	97	12.250	12.248	(0.939)	42410	105.284	4.21
68 Tetrachloroethene	164	12.358	12.366	(0.947)	83353	108.117	4.32
69 2-hexanone	43	12.387	12.396	(0.949)	150203	567.002	22.68
70 Dibromochloromethane	129	12.604	12.612	(0.966)	56762	92.3778	3.70
72 Chlorobenzene	112	13.076	13.075	(1.002)	200042	101.255	4.05
75 Ethylbenzene	106	13.116	13.114	(1.005)	110979	101.146	4.05
76 m,p-Xylene	106	13.195	13.193	(1.011)	287457	210.658	8.43
77 o-Xylene	106	13.500	13.498	(1.035)	131844	103.296	4.13
78 Styrene	104	13.510	13.508	(1.035)	199982	98.6762	3.95
79 Bromoform	173	13.716	13.715	(1.051)	31959	93.2434	3.73
82 1,1,2,2-Tetrachloroethane	83	13.982	13.990	(0.949)	49029	100.311	4.01
M 107 Xylene (total)	106				419301	328.509	13.14

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VWSLCS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: WG16049-4

Sample wt/vol: 25 (g/ml) ML Lab File ID: WG16049-5A73Q

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/08/02

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	6	
75-01-4	Vinyl Chloride	5	
74-83-9	Bromomethane	6	
75-00-3	Chloroethane	5	
75-35-4	1,1-Dichloroethene	5	
75-15-0	Carbon disulfide	5	
67-64-1	Acetone	20	B
75-09-2	Methylene Chloride	5	
156-60-5	trans-1,2-Dichloroethene	5	
75-34-3	1,1-Dichloroethane	5	
156-59-2	cis-1,2-Dichloroethene	5	
78-93-3	2-butanone	24	
67-66-3	Chloroform	4	B
71-55-6	1,1,1-Trichloroethane	4	
56-23-5	Carbon Tetrachloride	4	
71-43-2	Benzene	5	
107-06-2	1,2-Dichloroethane	4	
79-01-6	Trichloroethene	4	
78-87-5	1,2-Dichloropropane	5	
75-27-4	Bromodichloromethane	4	
10061-01-5	cis-1,3-Dichloropropene	4	
108-10-1	4-Methyl-2-pentanone	23	
108-88-3	Toluene	5	
10061-02-6	trans-1,3-Dichloropropene	4	
79-00-5	1,1,2-Trichloroethane	5	
127-18-4	Tetrachloroethene	5	
591-78-6	2-hexanone	25	
124-48-1	Dibromochloromethane	4	
108-90-7	Chlorobenzene	5	
100-41-4	Ethylbenzene	5	B
108-38-3	m,p-Xylene	10	B
95-47-6	o-Xylene	5	B
100-42-5	Styrene	5	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VWSLCS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: WG16049-4

Sample wt/vol: 25 (g/ml) ML Lab File ID: WG16049-5A73Q

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/08/02

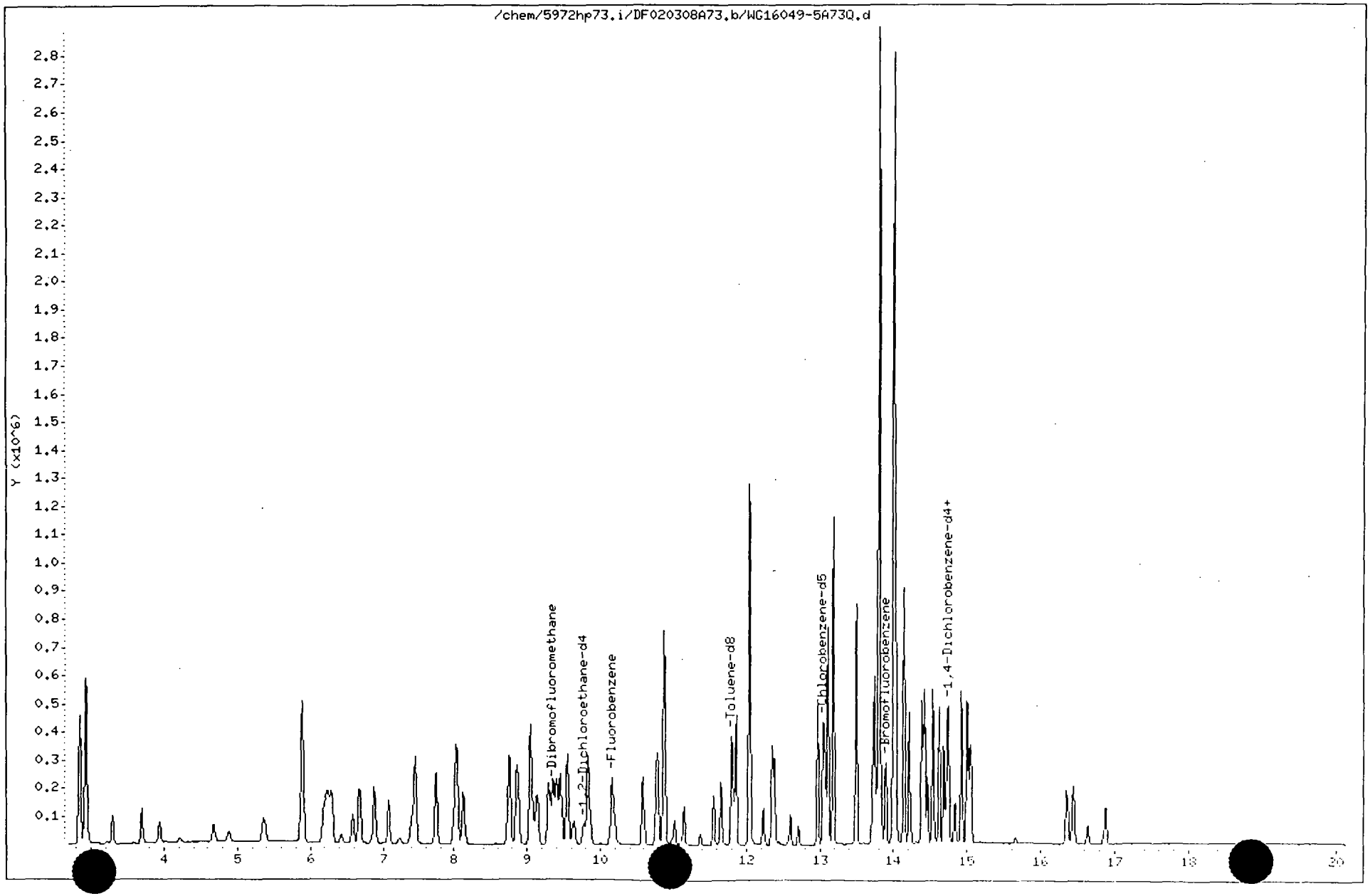
GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-25-2	Bromoform	4	
79-34-5	1,1,2,2-Tetrachloroethane	5	
1330-20-7	Xylene (total)	16	B

Data File: /chem/5972hp73.i/DF020308A73.b/WG16049-5A73Q.d
Date : 08-MAR-2002 09:57
Client ID: VWSLCS
Sample Info:
Purge Volume: 25.0
Column phase: ZB-624

Instrument: 5972hp73.i
Operator: 2429
Column diameter: 0.32



Data File: /chem/5972hp73.i/DF020308A73.b/WG16049-5A73Q.d
Report Date: 11-Mar-2002 11:59

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF020308A73.b/WG16049-5A73Q.d
Lab Smp Id: WG16049-4 Client Smp ID: VWSLCS
Inj Date : 08-MAR-2002 09:57
Operator : 2429 Inst ID: 5972hp73.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp73.i/DF020308A73.b/W8260-B-25MLv6.m
Meth Date : 11-Mar-2002 10:33 curtis Quant Type: ISTD
Cal Date : 22-FEB-2002 22:50 Cal File: CY020222B73.d
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL3CT.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
• 1 Fluorobenzene	96	10.158	10.164	(1.000)	264614	125.000	(M) ?
• 2 Chlorobenzene-d5	117	13.052	13.048	(1.000)	198736	125.000	
• 3 1,4-Dichlorobenzene-d4	152	14.735	14.731	(1.000)	100411	125.000	
4 Dibromofluoromethane	113	9.341	9.347	(0.920)	79268	129.163	5.17
5 1,2-Dichloroethane-d4	65	9.774	9.770	(0.962)	59547	114.263	4.57
6 Toluene-d8	98	11.802	11.808	(0.904)	246736	123.787	4.95
7 Bromofluorobenzene	95	13.898	13.894	(0.943)	92531	127.482	5.10
9 Chloromethane	50	3.701	3.697	(0.364)	135110	141.994	5.68
10 Vinyl Chloride	62	3.948	3.942	(0.389)	95873	125.420	5.02
11 Bromomethane	94	4.686	4.682	(0.461)	55776	156.186	6.25
12 Chloroethane	64	4.883	4.888	(0.481)	41663	116.572	4.66
16 1,1-Dichloroethene	96	6.300	6.296	(0.620)	82949	116.618	4.66
21 Carbon disulfide	76	6.674	6.680	(0.657)	346239	116.675	4.67
18 Acetone	43	6.428	6.424	(0.633)	55071	506.433	20.26
24 Methylene Chloride	84	7.087	7.083	(0.698)	82846	121.763	4.87

MDR 3/11/02

Data File: /chem/5972hp73.i/DF020308A73.b/WG16049-5A73Q.d
Report Date: 11-Mar-2002 11:59

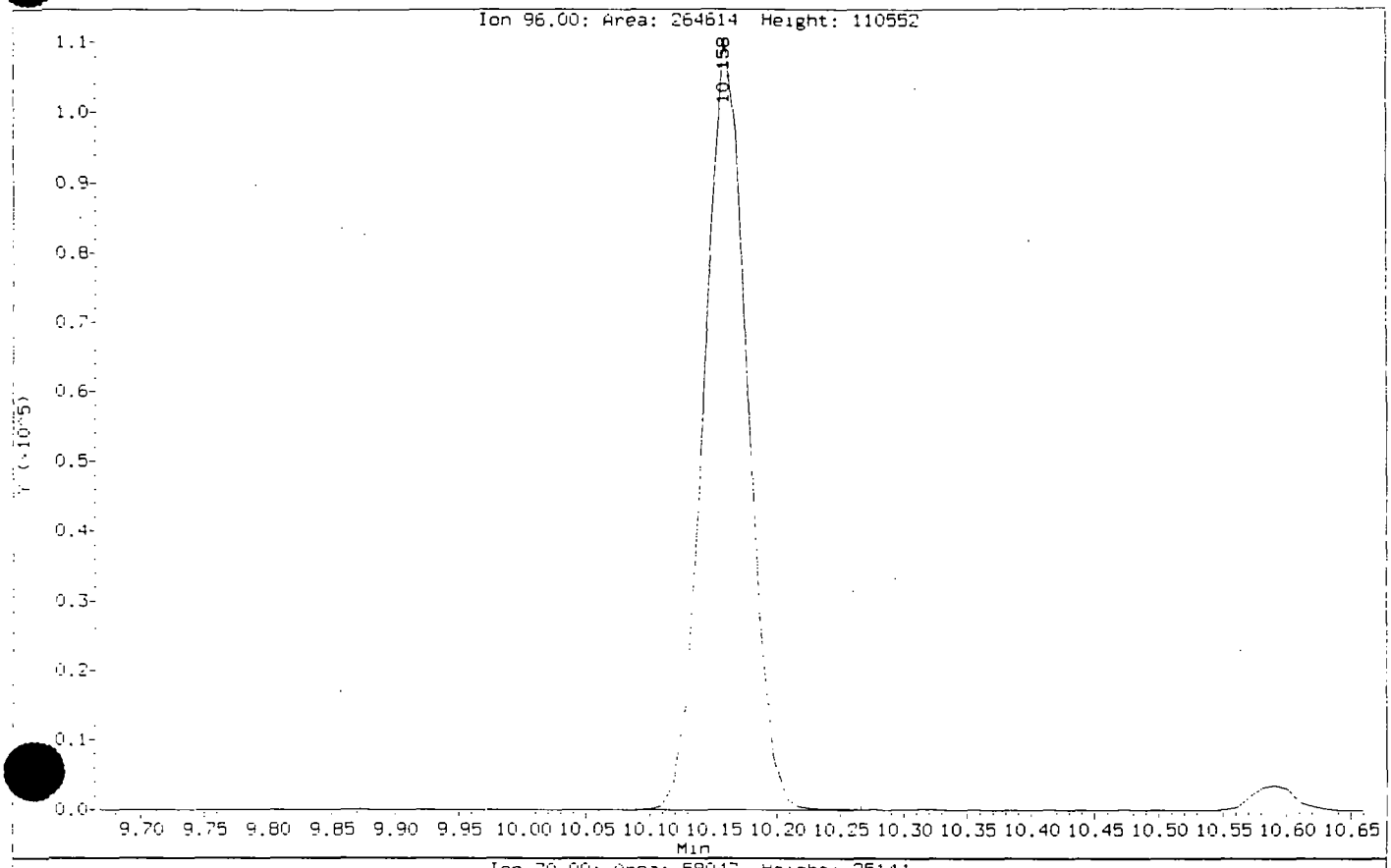
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
27 trans-1,2-Dichloroethene	96	7.451	7.457	(0.734)	88006	117.452	4.70
30 1,1-Dichloroethane	63	8.032	8.038	(0.791)	162183	116.203	4.65
34 cis-1,2-Dichloroethene	96	8.770	8.776	(0.863)	85889	118.979	4.76
37 2-butanone	43	8.770	8.766	(0.863)	82750	607.722	24.31
42 Chloroform	83	9.144	9.140	(0.900)	151422	110.896	4.44
43 1,1,1-Trichloroethane	97	9.361	9.357	(0.922)	131326	102.131	4.09
48 Carbon Tetrachloride	117	9.558	9.554	(0.941)	108811	97.9697	3.92
51 Benzene	78	9.833	9.829	(0.968)	347040	119.557	4.78
49 1,2-Dichloroethane	62	9.873	9.869	(0.972)	75793	101.043	4.04
53 Trichloroethene	130	10.591	10.587	(1.043)	89485	109.042	4.36
55 1,2-Dichloropropane	63	10.867	10.863	(1.070)	74688	123.247	4.93
59 Bromodichloromethane	83	11.142	11.148	(1.097)	90347	104.282	4.17
61 cis-1,3-Dichloropropene	75	11.566	11.562	(1.139)	105039	111.872	4.47
62 4-Methyl-2-pentanone	43	11.654	11.660	(0.893)	191416	570.360	22.81
63 Toluene	92	11.871	11.867	(0.910)	197299	120.485	4.82
64 trans-1,3-Dichloropropene	75	12.058	12.064	(0.924)	78075	110.647	4.43
65 1,1,2-Trichloroethane	97	12.245	12.241	(0.938)	40863	119.347	4.77
68 Tetrachloroethene	164	12.353	12.359	(0.946)	84005	128.192	5.13
69 2-hexanone	43	12.392	12.388	(0.949)	138315	614.273	24.57
70 Dibromochloromethane	129	12.599	12.605	(0.965)	53086	101.642	4.07
72 Chlorobenzene	112	13.072	13.067	(1.002)	196875	117.239	4.69
75 Ethylbenzene	106	13.111	13.107	(1.005)	113316	121.502	4.86
76 m,p-Xylene	106	13.190	13.195	(1.011)	292849	252.485	10.10
77 o-Xylene	106	13.495	13.501	(1.034)	132878	122.479	4.90
[illegible] Styrene	104	13.505	13.510	(1.035)	196933	114.321	4.57
[illegible] Bromoform	173	13.711	13.707	(1.051)	30181	103.596	4.14(M)
82 1,1,2,2-Tetrachloroethane	83	13.977	13.983	(0.949)	48691	122.671	4.91
M 107 Xylene (total)	106				425727	392.409	15.70

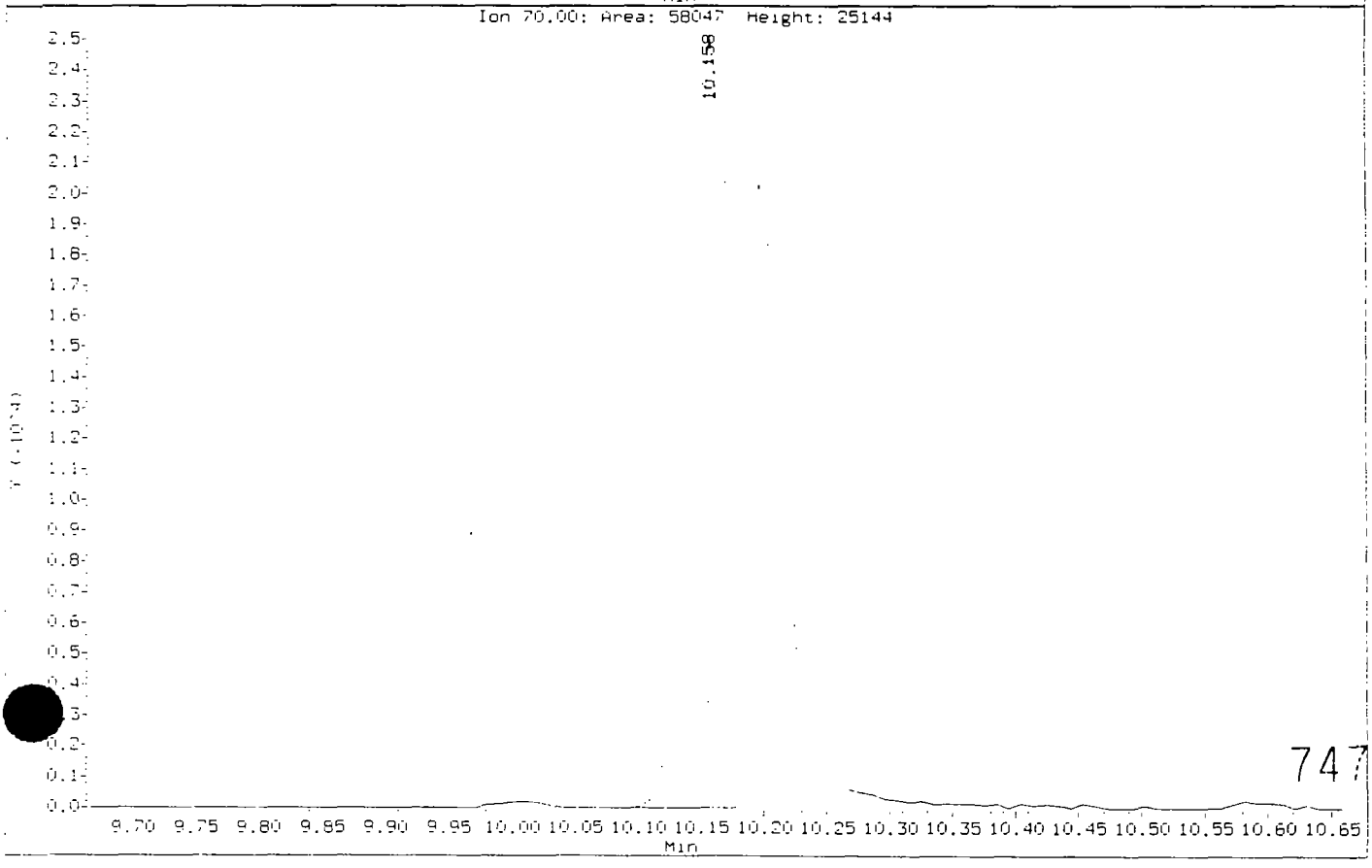
QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/5972hp73.i/DF020308A73.b/WG16049-5A73Q.d
Injection Date: 08-MAR-2002 09:57
Instrument: 5972hp73.i
Client Sample ID: VWSLCS

ound: Fluorobenzene
Number: 462-06-6

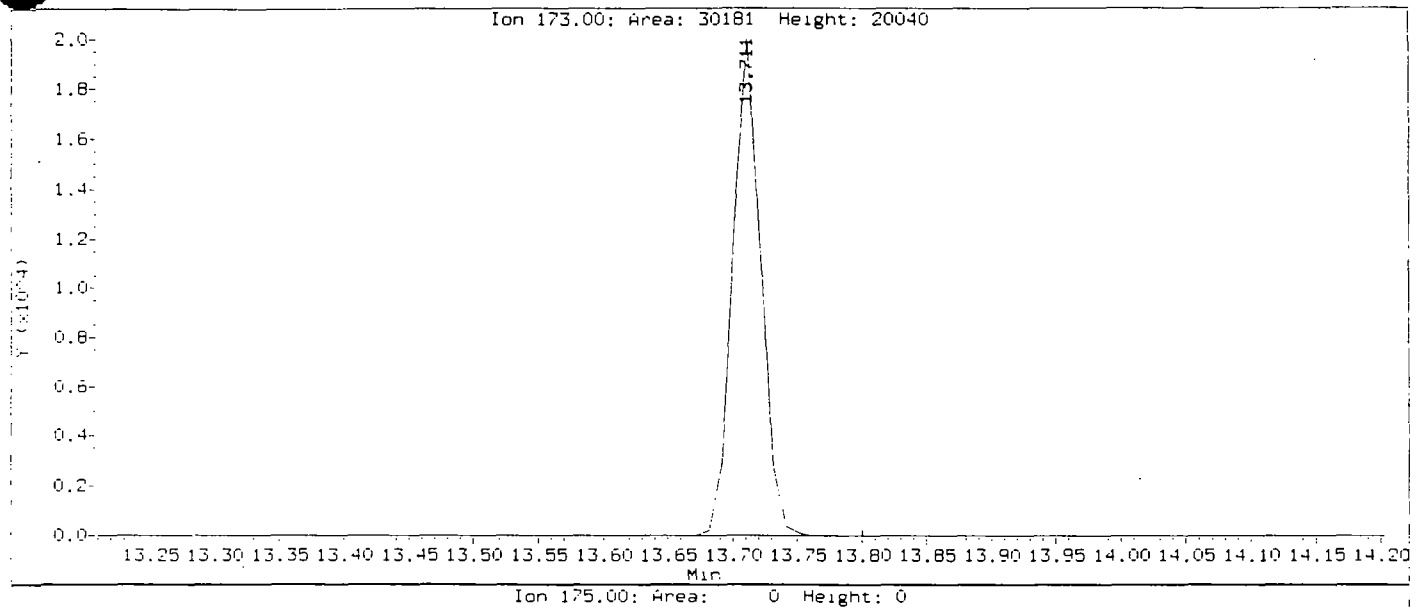


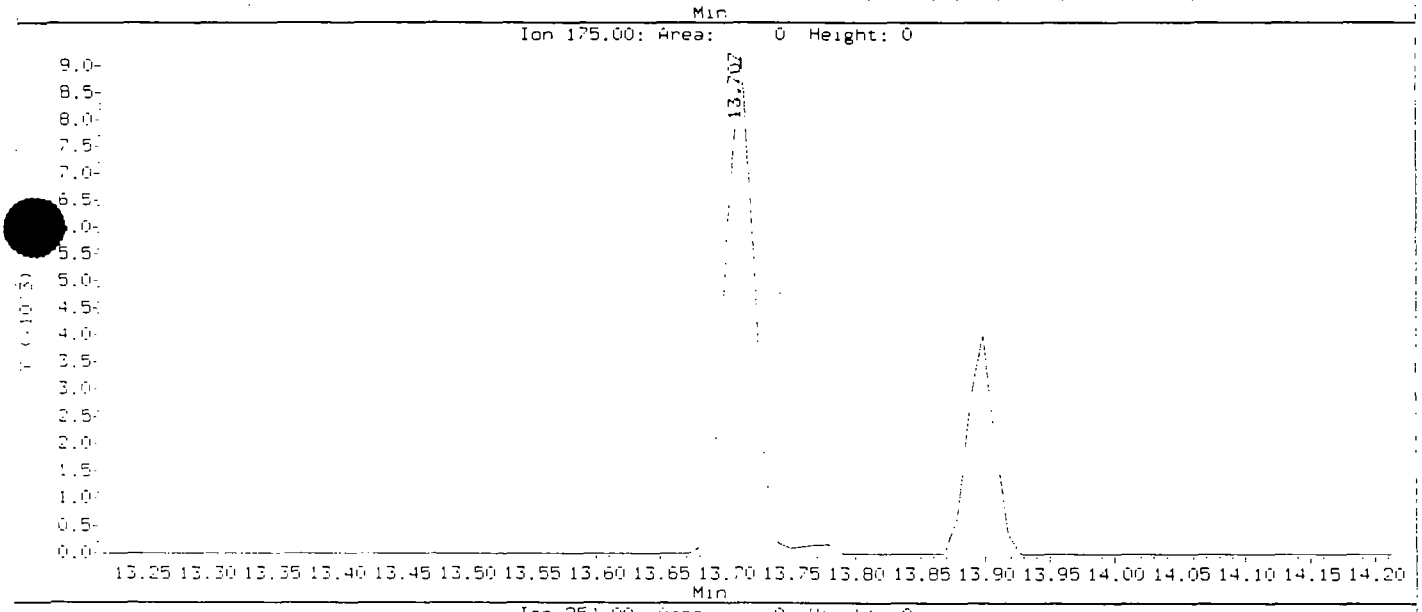


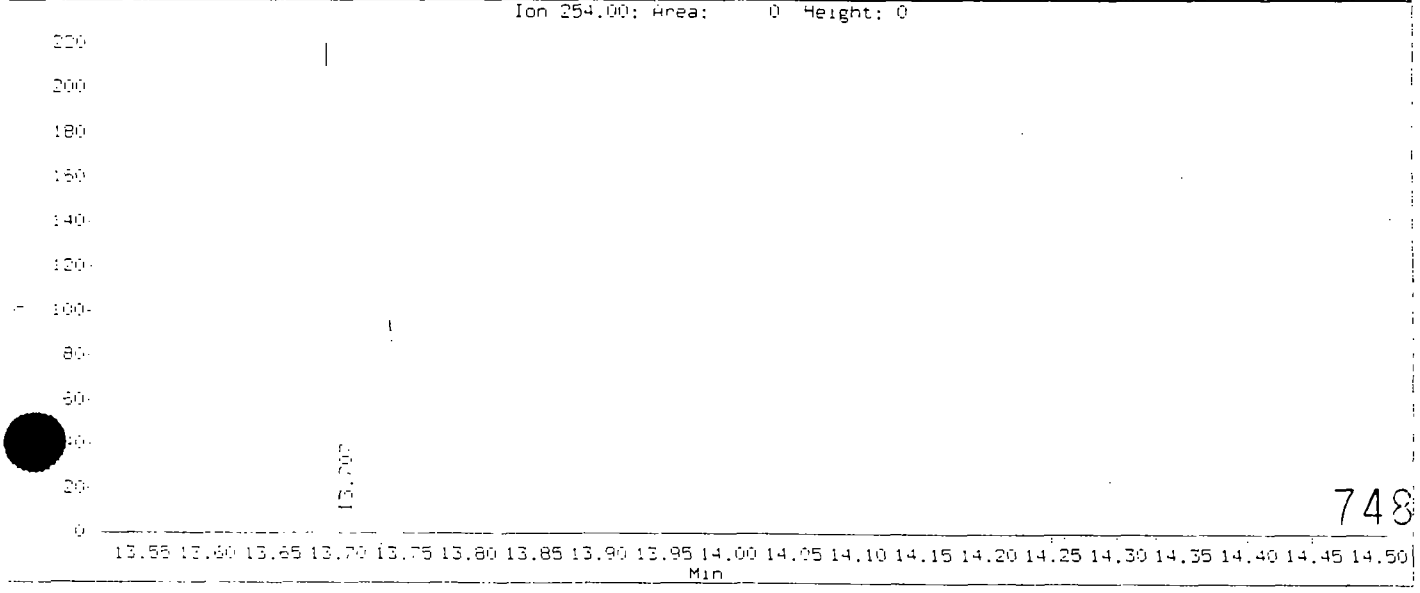
747

Data File: /chem/5972hp73.i/DF020308A73.b/WG16049-5A73Q.d
Injection Date: 08-MAR-2002 09:57
Instrument: 5972hp73.i
Client Sample ID: VWSLCS

pound: Bromoform
Number: 75-25-2







748

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VAXLCS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: WG16249-4

Sample wt/vol: 25 (g/ml) ML Lab File ID: WG16249-4A73CT

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/13/02

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	6	
75-01-4	Vinyl Chloride	5	
74-83-9	Bromomethane	6	
75-00-3	Chloroethane	4	
75-35-4	1,1-Dichloroethene	5	
75-15-0	Carbon disulfide	5	
67-64-1	Acetone	21	B
75-09-2	Methylene Chloride	4	
156-60-5	trans-1,2-Dichlcroethene	5	
75-34-3	1,1-Dichloroethane	4	
156-59-2	cis-1,2-Dichloroethene	5	
78-93-3	2-butanone	23	
67-66-3	Chloroform	4	B
71-55-6	1,1,1-Trichloroethane	4	
56-23-5	Carbon Tetrachloride	4	
71-43-2	Benzene	4	
107-06-2	1,2-Dichloroethane	4	
79-01-6	Trichloroethene	4	
78-87-5	1,2-Dichloropropane	5	
75-27-4	Bromodichloromethane	4	B
10061-01-5	cis-1,3-Dichloropropene	4	
108-10-1	4-Methyl-2-pentanone	20	
108-88-3	Toluene	4	
10061-02-6	trans-1,3-Dichloropropene	4	
79-00-5	1,1,2-Trichloroethane	4	
127-18-4	Tetrachloroethene	4	
591-78-6	2-hexanone	20	
124-48-1	Dibromochloromethane	4	B
108-90-7	Chlorobenzene	4	
100-41-4	Ethylbenzene	4	B
108-38-3	m,p-Xylene	9	B
95-47-6	o-Xylene	4	
100-42-5	Styrene	4	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VAXLCS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: WG16249-4

Sample wt/vol: 25 (g/ml) ML Lab File ID: WG16249-4A73CT

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/13/02

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-25-2	Bromoform	4	
79-34-5	1,1,2,2-Tetrachloroethane	4	
1330-20-7	Xylene (total)	14	B

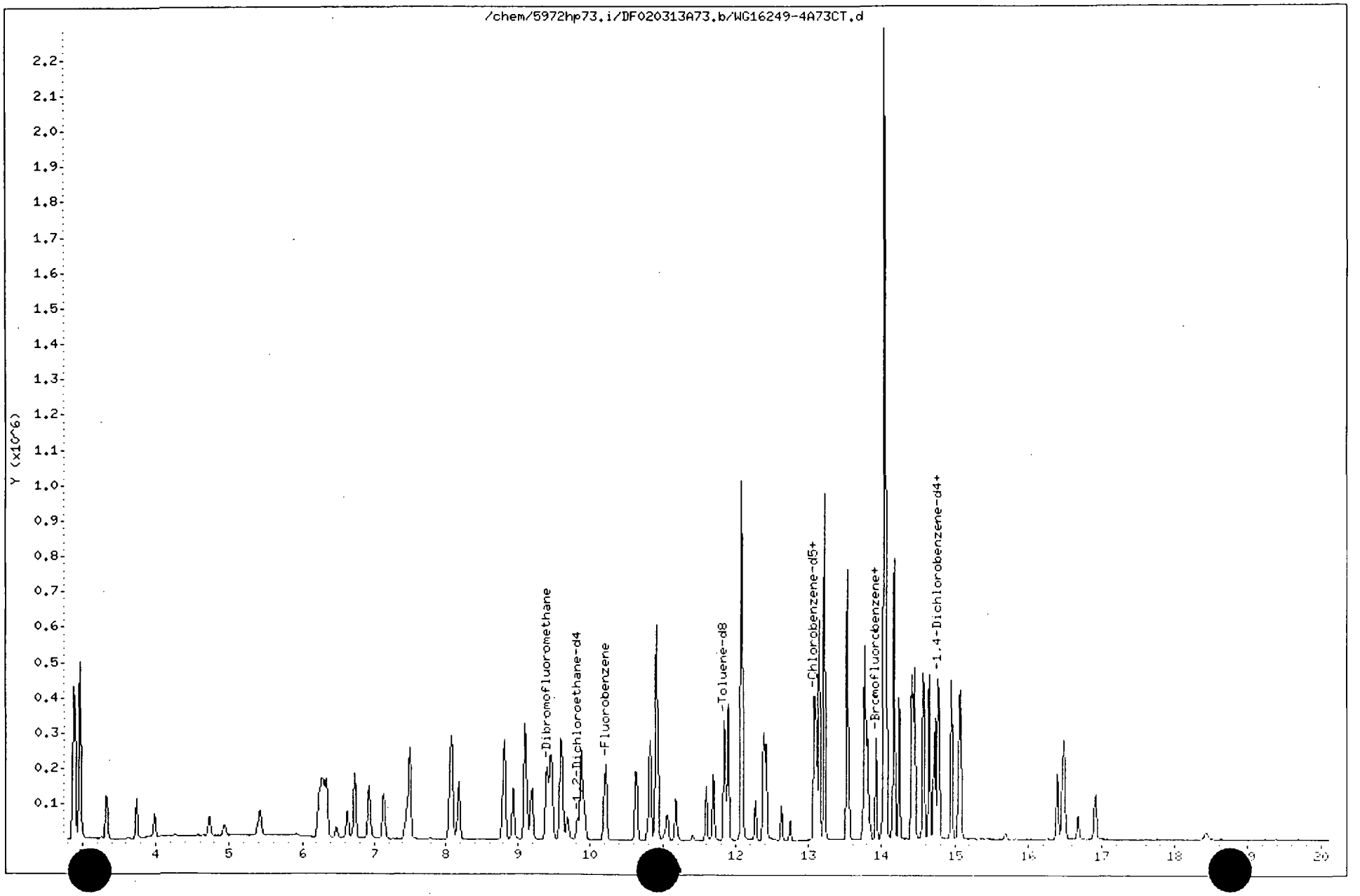
FORM I VOA

Data File: /chem/5972hp73.i/DF020313A73.b/WG16249-4A73CT.d
Date : 13-MAR-2002 11:26
Client ID: VAXLCS
Sample Info:
Purge Volume: 25.0
Column phase: ZB-624

Instrument: 5972hp73.i

Operator: 2429
Column diameter: 0.32

751



Data File: /chem/5972hp73.i/DF020313A73.b/WG16249-4A73CT.d
Report Date: 18-Mar-2002 13:06

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF020313A73.b/WG16249-4A73CT.d
Lab Smp Id: WG16249-4 Client Smp ID: VAXLCS
Inj Date : 13-MAR-2002 11:26
Operator : 2429 Inst ID: 5972hp73.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp73.i/DF020313A73.b/W8260-B-25MLv6.m
Meth Date : 18-Mar-2002 11:19 mead Quant Type: ISTD
Cal Date : 22-FEB-2002 22:50 Cal File: CY020222B73.d
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL3CT.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	10.205	10.202	(1.000)	241647	125.000	
* 2 Chlorobenzene-d5	117	13.079	13.076	(1.000)	188666	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.762	14.759	(1.000)	97562	125.000	
3 4 Dibromofluoromethane	113	9.388	9.385	(0.920)	71721	127.974	5.12
$ 5 1,2-Dichloroethane-d4	65	9.821	9.819	(0.962)	51878	109.009	4.36
3 6 Toluene-d8	98	11.838	11.836	(0.905)	213005	112.568	4.50
3 7 Bromofluorobenzene	95	13.325	13.323	(0.943)	86756	123.016	4.92
9 Chloromethane	50	3.738	3.736	(0.366)	121850	140.229	5.61
10 Vinyl Chloride	62	3.984	3.982	(0.390)	82842	118.673	4.75
11 Bromomethane	94	4.722	4.720	(0.463)	49099	150.557	6.02
12 Chloroethane	64	4.939	4.937	(0.484)	33874	103.787	4.15
14 1,1-Dichloroethene	96	6.346	6.344	(0.622)	75611	116.405	4.66
21 Carbon disulfide	76	6.730	6.728	(0.660)	329339	121.528	4.86
15 Acetone	43	6.474	6.472	(0.634)	53027	533.984	21.36
24 Methylene Chloride	84	7.134	7.132	(0.699)	67296	108.310	4.33

Rmw 3/18/2

Data File: /chem/5972hp73.i/DF020313A73.b/WG16249-4A73CT.d
Report Date: 18-Mar-2002 13:06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
27 trans-1,2-Dichloroethene	96	7.498	7.496	(0.735)	79520	116.213	4.65
30 1,1-Dichloroethane	63	8.079	8.076	(0.792)	141895	111.330	4.45
34 cis-1,2-Dichloroethene	96	8.817	8.815	(0.864)	75276	114.189	4.57
37 2-butanone	43	8.807	8.805	(0.863)	71140	572.113	22.88
42 Chloroform	83	9.191	9.189	(0.901)	132360	106.149	4.25
43 1,1,1-Trichloroethane	97	9.407	9.405	(0.922)	118772	101.147	4.05
48 Carbon Tetrachloride	117	9.604	9.602	(0.941)	103193	101.742	4.07
51 Benzene	78	9.880	9.878	(0.968)	276796	104.420	4.18
49 1,2-Dichloroethane	62	9.919	9.917	(0.972)	69989	102.174	4.09
53 Trichloroethene	130	10.638	10.635	(1.042)	78434	104.659	4.19
55 1,2-Dichloropropane	63	10.903	10.901	(1.068)	63371	114.511	4.58
59 Bromodichloromethane	83	11.179	11.177	(1.095)	80878	102.225	4.09
61 cis-1,3-Dichloropropene	75	11.602	11.600	(1.137)	89812	104.746	4.19
62 4-Methyl-2-pentanone	43	11.691	11.689	(0.894)	157341	493.850	19.75
63 Toluene	92	11.907	11.905	(0.910)	167471	107.729	4.31
64 trans-1,3-Dichloropropene	75	12.094	12.092	(0.925)	68395	102.102	4.08
65 1,1,2-Trichloroethane	97	12.272	12.269	(0.938)	35757	110.008	4.40
68 Tetrachloroethene	164	12.390	12.387	(0.947)	68907	110.766	4.43
69 2-hexanone	43	12.419	12.417	(0.950)	106785	499.558	19.98
70 Dibromochloromethane	129	12.636	12.633	(0.966)	48565	97.9496	3.92
72 Chlorobenzene	112	13.098	13.096	(1.002)	176311	110.597	4.42
75 Ethylbenzene	106	13.138	13.135	(1.004)	97426	110.040	4.40
76 m,p-Xylene	106	13.216	13.214	(1.011)	250070	227.110	9.08
77 o-Xylene	106	13.531	13.529	(1.035)	112768	109.491	4.38
78 Styrene	104	13.541	13.539	(1.035)	169313	103.534	4.14
79 Bromoform	173	13.738	13.736	(1.050)	27125	98.0763	3.92(M)
82 1,1,2,2-Tetrachloroethane	83	14.014	14.011	(0.949)	42144	109.277	4.37
M 107 Xylene (total)	106				362838	352.293	14.09

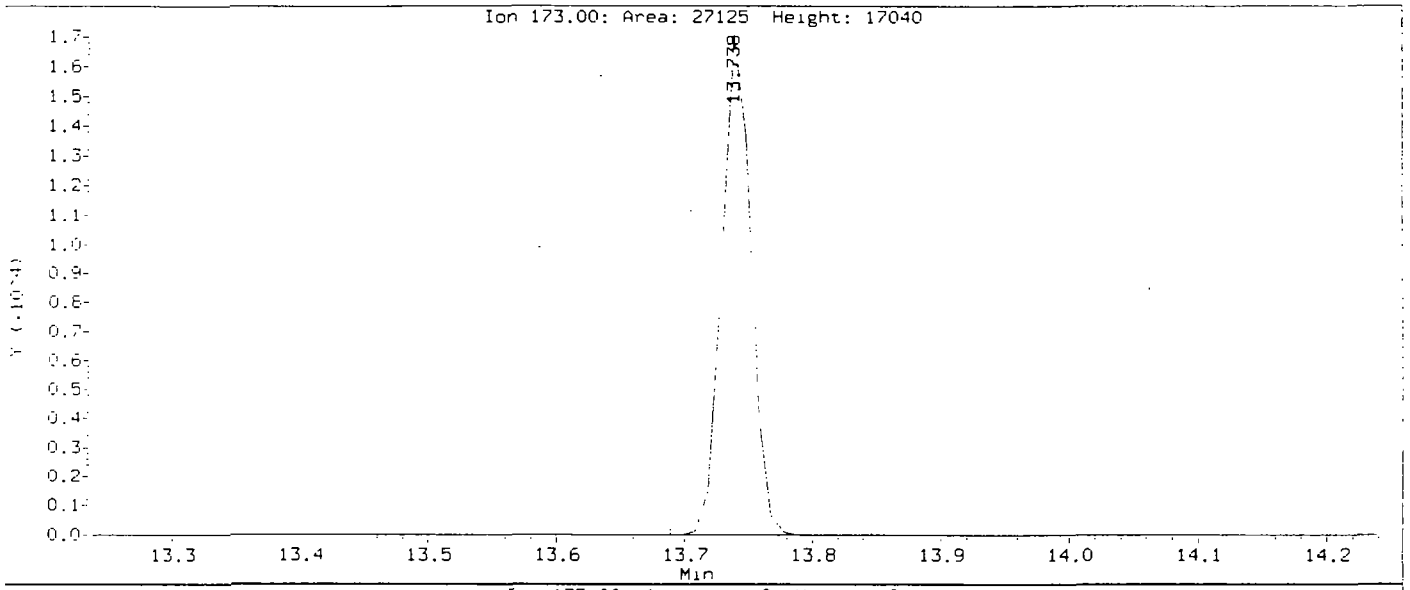
QC Flag Legend

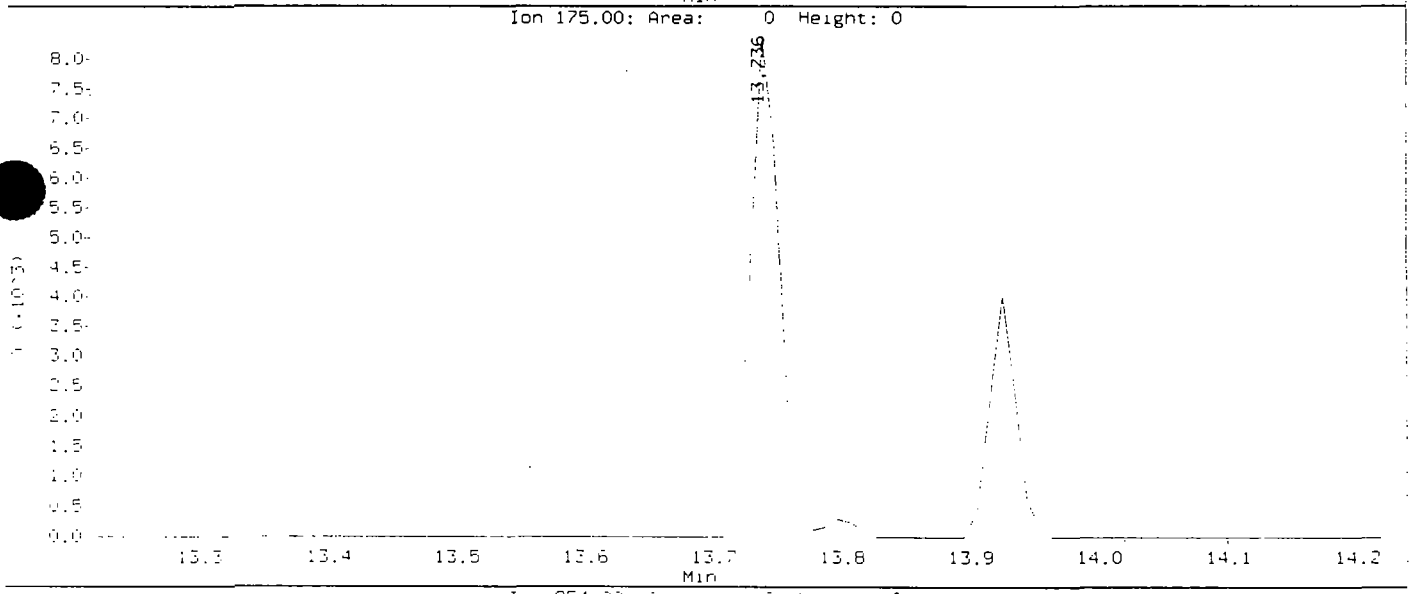
M - Compound response manually integrated.

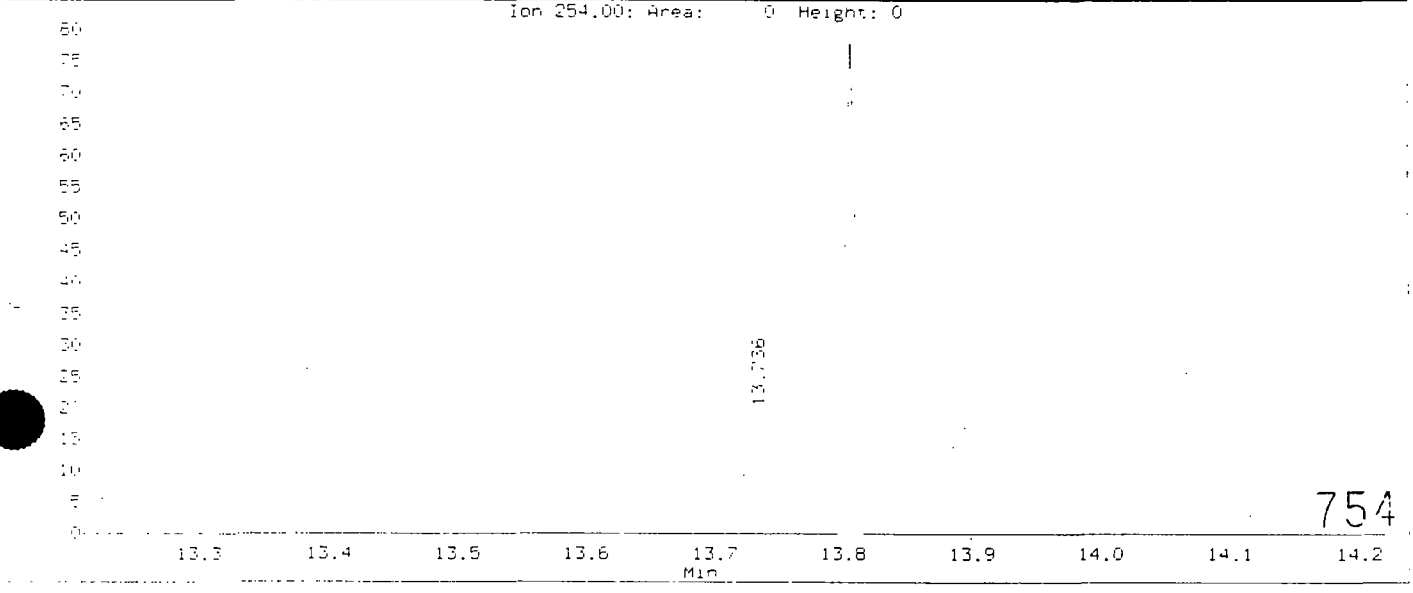
pwm 3/18/2

Data File: /chem/5972hp73.i/DF020313A73.b/WG16249-4A73CT.d
Injection Date: 13-MAR-2002 11:26
Instrument: 5972hp73.i
Client Sample ID: VAXLCS

pound: Bromoform
Number: 75-25-2







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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBBLCS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: WG16250-5

Sample wt/vol: 25 (g/ml) ML Lab File ID: WG16250-5B73CT

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/13/02

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	4	
75-01-4	Vinyl Chloride	4	
74-83-9	Bromomethane	3	
75-00-3	Chloroethane	4	
75-35-4	1,1-Dichloroethene	5	
75-15-0	Carbon disulfide	4	
67-64-1	Acetone	21	B
75-09-2	Methylene Chloride	5	
156-60-5	trans-1,2-Dichloroethene	5	
75-34-3	1,1-Dichloroethane	5	
156-59-2	cis-1,2-Dichloroethene	5	
78-93-3	2-butanone	25	
67-66-3	Chloroform	5	
71-55-6	1,1,1-Trichloroethane	4	
56-23-5	Carbon Tetrachloride	4	
71-43-2	Benzene	5	
107-06-2	1,2-Dichloroethane	5	
79-01-6	Trichloroethene	5	
78-87-5	1,2-Dichloropropane	5	
75-27-4	Bromodichloromethane	4	
10061-01-5	cis-1,3-Dichloropropene	5	
108-10-1	4-Methyl-2-pentanone	22	
108-88-3	Toluene	5	
10061-02-6	trans-1,3-Dichloropropene	5	
79-00-5	1,1,2-Trichloroethane	5	
127-18-4	Tetrachloroethene	5	
591-78-6	2-hexanone	23	
124-48-1	Dibromochloromethane	4	
108-90-7	Chlorobenzene	5	
100-41-4	Ethylbenzene	5	B
108-38-3	m,p-Xylene	10	B
95-47-6	o-Xylene	5	B
100-42-5	Styrene	5	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBBLCS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: WG16250-5

Sample wt/vol: 25 (g/ml) ML Lab File ID: WG16250-5B73CT

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/13/02

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

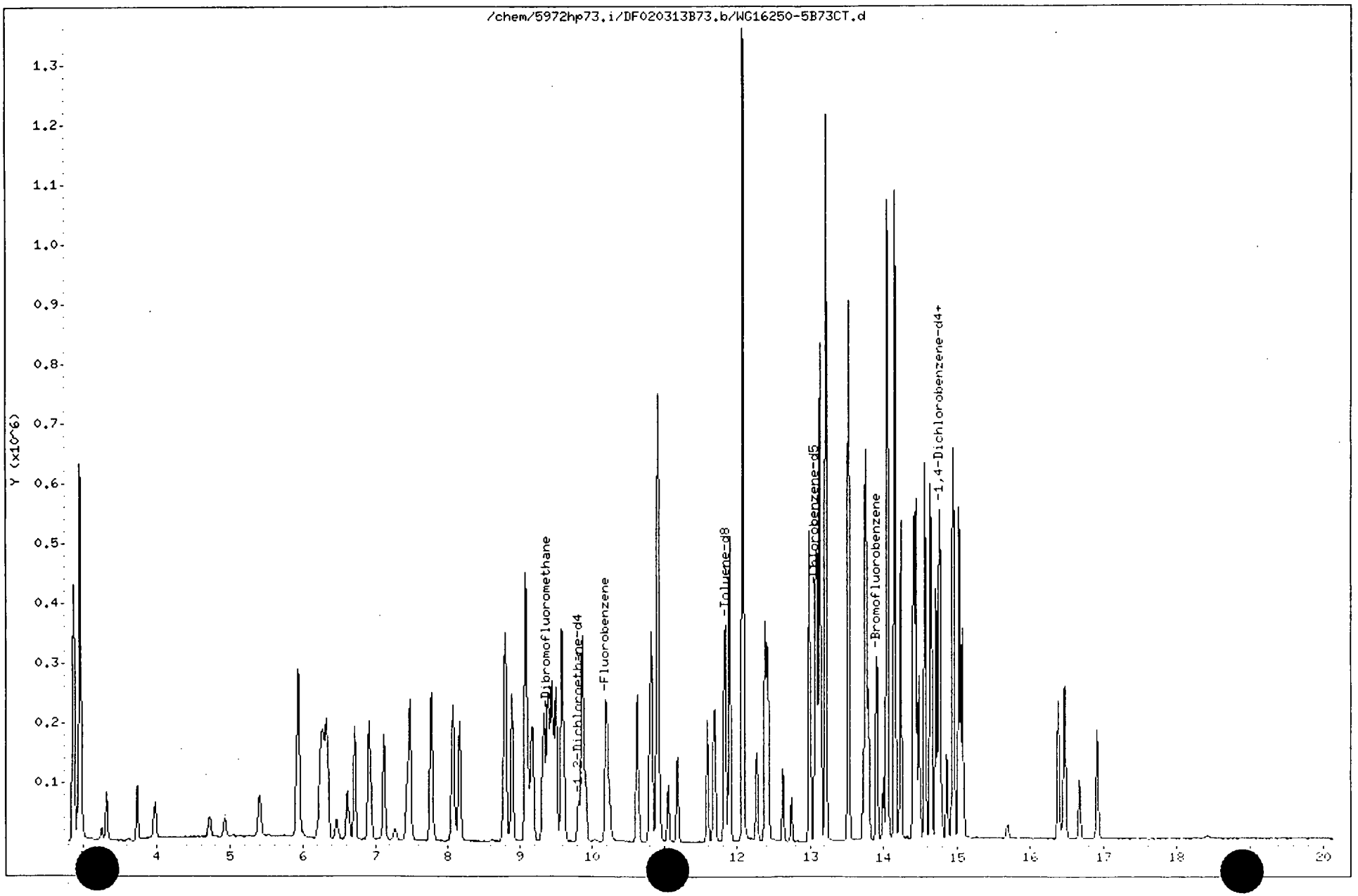
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-25-2	Bromoform	4	
79-34-5	1,1,2,2-Tetrachloroethane	5	
1330-20-7	Xylene (total)	16	B

FORM I VOA

Data File: /chem/5972hp73.i/DF020313B73.b/WG16250-5B73CT.d
Date : 13-MAR-2002 22:30
Client ID: VBBLCS
Sample Info:
Purge Volume: 25.0
Column phase: ZB-624

Instrument: 5972hp73.i

Operator: 2323
Column diameter: 0.32



Data File: /chem/5972hp73.i/DF020313B73.b/WG16250-5B73CT.d
Report Date: 18-Mar-2002 14:32

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF020313B73.b/WG16250-5B73CT.d
Lab Smp Id: WG16250-5 Client Smp ID: VBBLCS
Inj Date : 13-MAR-2002 22:30
Operator : 2323 Inst ID: 5972hp73.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp73.i/DF020313B73.b/W8260-B-25MLv6.m
Meth Date : 18-Mar-2002 14:02 mead Quant Type: ISTD
Cal Date : 22-FEB-2002 22:50 Cal File: CY020222B73.d
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL3CT.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	10.193	10.193	(1.000)	270914	125.000	
* 2 Chlorobenzene-d5	117	13.067	13.067	(1.000)	205881	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.760	14.760	(1.000)	107399	125.000	
S 4 Dibromofluoromethane	113	9.376	9.376	(0.920)	83903	133.537	5.34
S 5 1,2-Dichloroethane-d4	65	9.809	9.809	(0.962)	59889	112.247	4.49
S 6 Toluene-d8	98	11.836	11.836	(0.906)	244031	118.181	4.73
S 7 Bromofluorobenzene	95	13.913	13.913	(0.943)	99051	127.586	5.10
8 Chloromethane	50	3.736	3.736	(0.367)	102420	105.135	4.21
9 Vinyl Chloride	62	3.972	3.982	(0.390)	75787	96.8378	3.87
10 Bromomethane	94	4.720	4.720	(0.463)	30431	83.2331	3.33
11 Chloroethane	64	4.927	4.927	(0.483)	36605	100.038	4.00
12 1,1-Dichloroethene	96	6.335	6.334	(0.621)	90541	124.331	4.97
13 Carbon disulfide	76	6.716	6.716	(0.659)	336751	110.839	4.43
14 Acetone	43	6.463	6.462	(0.634)	59249	532.184	21.29
15 Methylene Chloride	84	7.122	7.122	(0.699)	89627	128.667	5.15

Rec'd 3/18/2

Data File: /chem/5972hp73.i/DF020313B73.b/WG16250-5B73CT.d
Report Date: 18-Mar-2002 14:32

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
27 trans-1,2-Dichloroethene	96	7.486	7.486	(0.734)	99262	129.394	5.18
30 1,1-Dichloroethane	63	8.077	8.077	(0.792)	182246	127.542	5.10
34 cis-1,2-Dichloroethene	96	8.805	8.805	(0.864)	94148	127.388	5.10
37 2-butanone	43	8.805	8.805	(0.864)	86178	618.179	24.73
42 Chloroform	83	9.179	9.179	(0.901)	165984	118.734	4.75
43 1,1,1-Trichloroethane	97	9.396	9.395	(0.922)	146063	110.950	4.44
46 Carbon Tetrachloride	117	9.592	9.592	(0.941)	124098	109.135	4.37
51 Benzene	78	9.868	9.868	(0.968)	371579	125.034	5.00
49 1,2-Dichloroethane	62	9.907	9.907	(0.972)	87070	113.378	4.54
53 Trichloroethene	130	10.626	10.626	(1.042)	95111	113.202	4.53
55 1,2-Dichloropropane	63	10.892	10.892	(1.069)	82264	132.592	5.30
59 Bromodichloromethane	83	11.177	11.177	(1.097)	99439	112.107	4.48
61 cis-1,3-Dichloropropene	75	11.591	11.590	(1.137)	110505	114.957	4.60
62 4-Methyl-2-pentanone	43	11.679	11.679	(0.894)	194940	560.702	22.43
63 Toluene	92	11.896	11.895	(0.910)	212534	125.285	5.01
64 trans-1,3-Dichloropropene	75	12.083	12.082	(0.925)	87701	119.976	4.80
65 1,1,2-Trichloroethane	97	12.270	12.269	(0.939)	46009	129.713	5.19
68 Tetrachloroethene	164	12.388	12.388	(0.948)	89881	132.400	5.30
69 2-hexanone	43	12.417	12.407	(0.950)	133675	573.064	22.92
70 Dibromochloromethane	129	12.624	12.624	(0.966)	60738	112.258	4.49
72 Chlorobenzene	112	13.096	13.096	(1.002)	217794	125.195	5.01
75 Ethylbenzene	106	13.136	13.136	(1.005)	124380	128.737	5.15
76 m,p-Xylene	106	13.214	13.214	(1.011)	314215	261.504	10.46
77 o-Xylene	106	13.520	13.519	(1.035)	142632	126.907	5.08
78 Styrene	104	13.529	13.529	(1.035)	214871	120.405	4.82
79 Bromoform	173	13.736	13.736	(1.051)	32851	108.848	4.35(M)
82 1,1,2,2-Tetrachloroethane	83	14.002	14.002	(0.949)	53370	125.710	5.03
M 107 Xylene (total)	106				456847	406.480	16.26

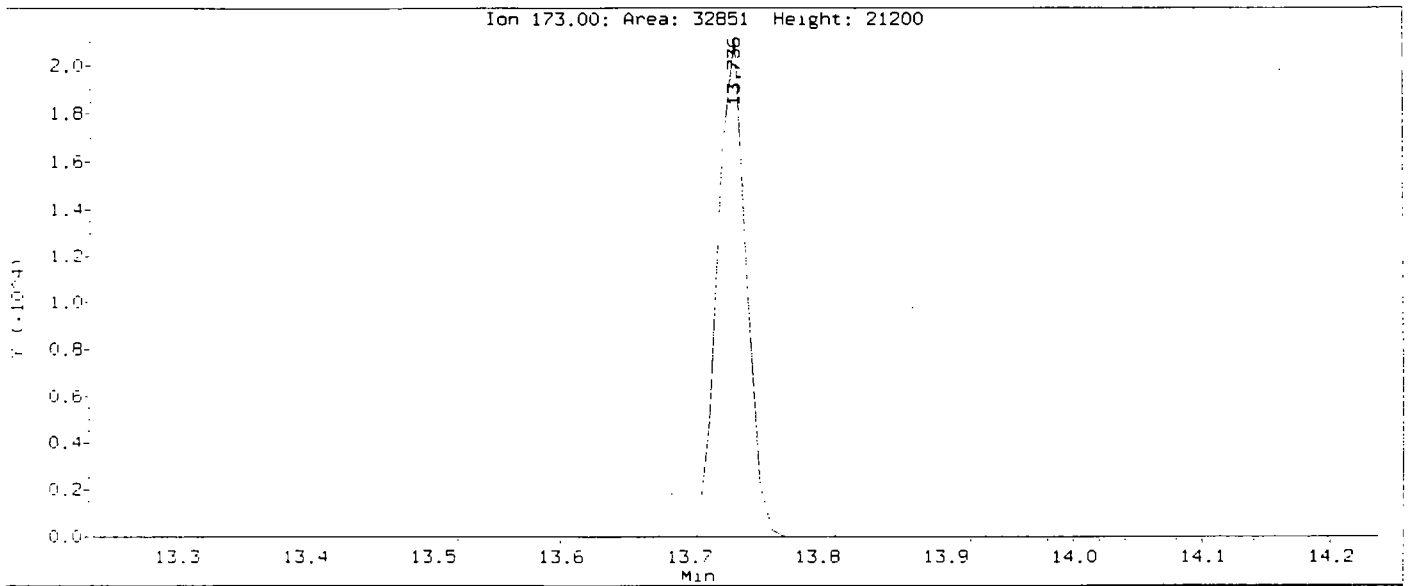
QC Flag Legend

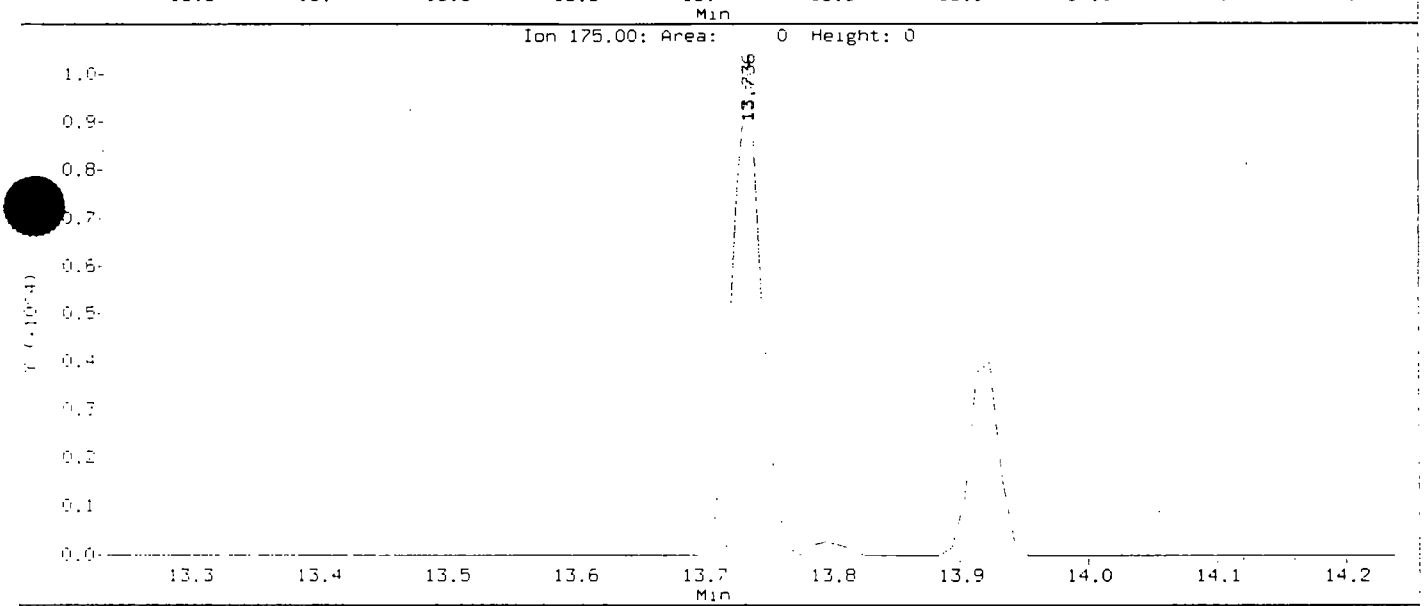
M - Compound response manually integrated.

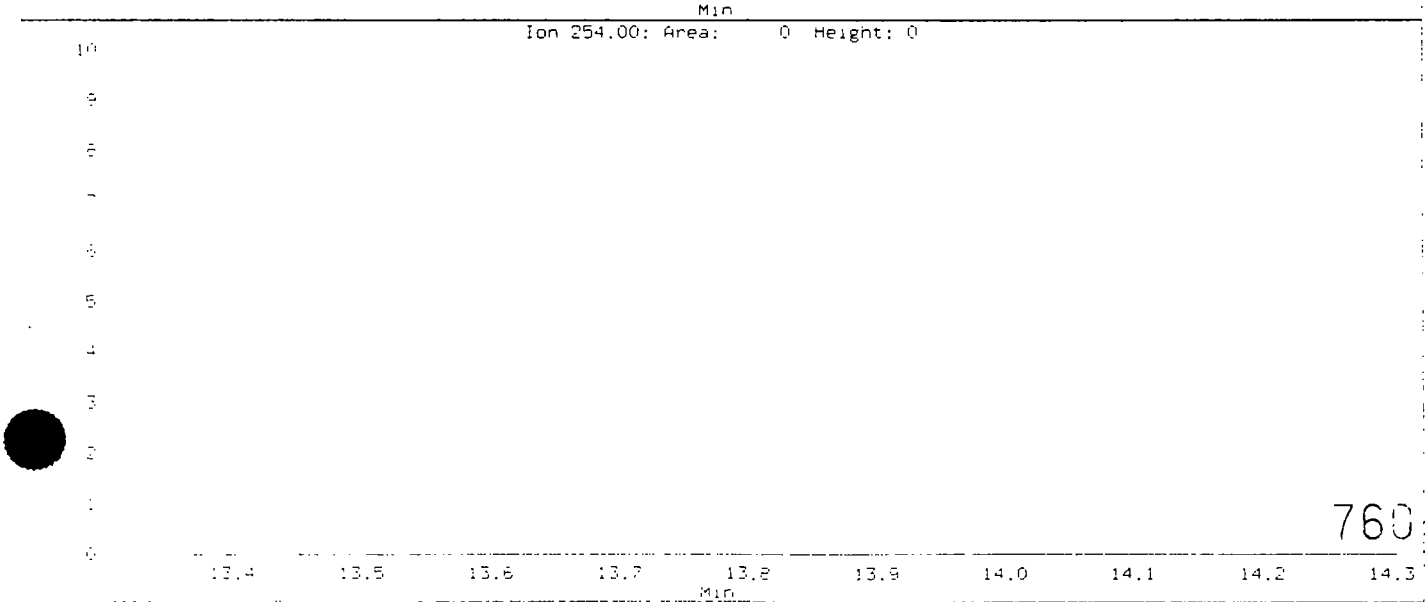
pum 3/18/2

Data File: /chem/5972hp73.i/DF020313B73.b/WG16250-5B73CT.d
Injection Date: 13-MAR-2002 22:30
Instrument: 5972hp73.i
Client Sample ID: VBBLCS

Compound: Bromoform
CAS Number: 75-25-2







FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VZMLCS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: WG16179-4

Sample wt/vol: 25 (g/ml) ML Lab File ID: WG16179-4A73CT

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/14/02

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-35-4	1,1-Dichloroethene	5	
75-15-0	Carbon disulfide	0.5	U
67-64-1	Acetone	1	JB
75-09-2	Methylene Chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-butanone	3	U
67-66-3	Chloroform	0.2	JB
71-55-6	1,1,1-Trichloroethane	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
71-43-2	Benzene	5	
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	5	
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	3	U
108-88-3	Toluene	5	
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
591-78-6	2-hexanone	3	U
124-48-1	Dibromochloromethane	0.03	JB
108-90-7	Chlorobenzene	5	
100-41-4	Ethylbenzene	0.03	J
108-38-3	m,p-Xylene	0.1	JB
95-47-6	o-Xylene	0.5	U
100-42-5	Styrene	0.5	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VZMLCS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: WG16179-4

Sample wt/vol: 25 (g/ml) ML Lab File ID: WG16179-4A73CT

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/14/02

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

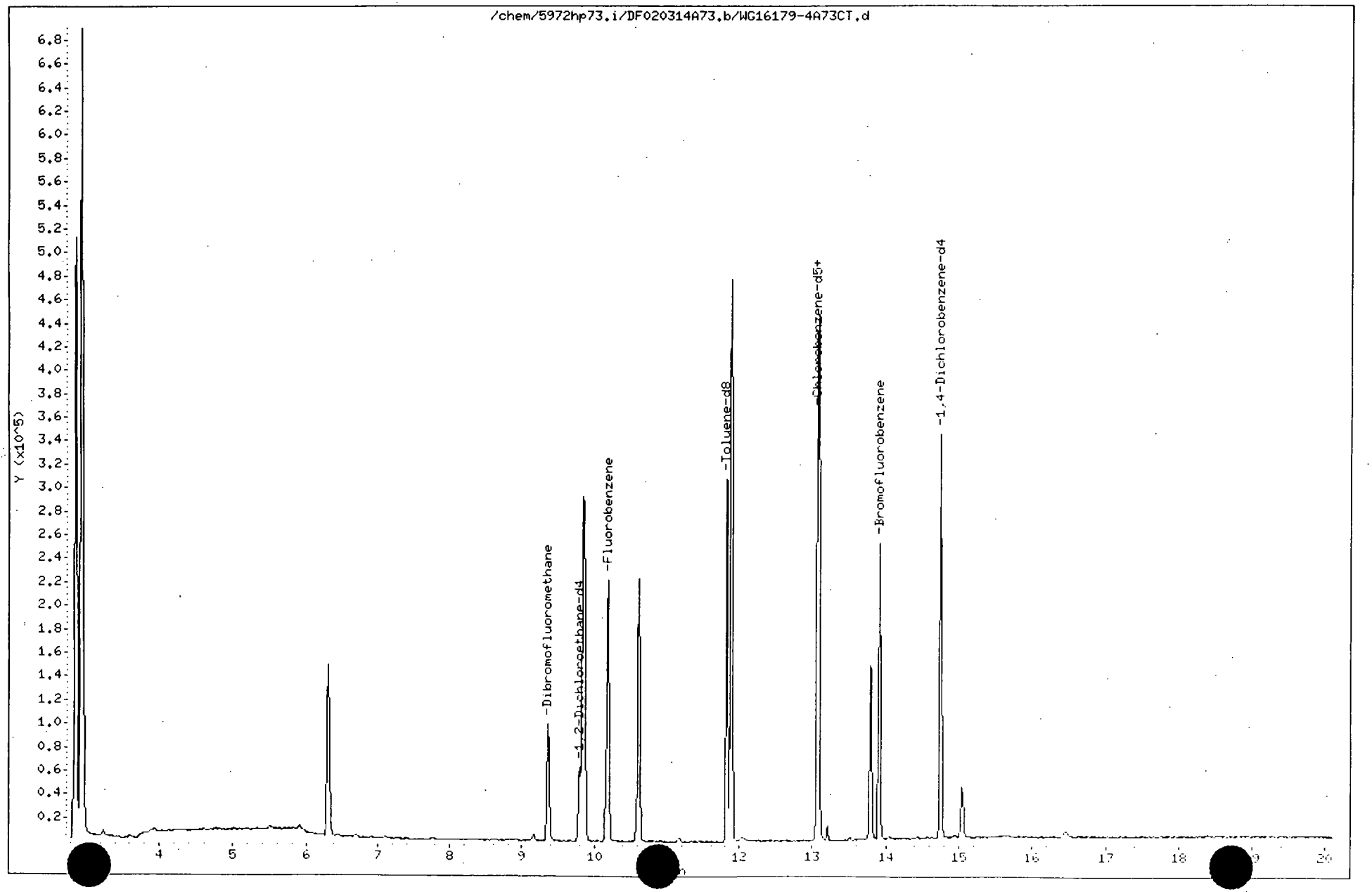
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-25-2	Bromoform	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
1330-20-7	Xylene (total)	0.1	JB

Data File: /chem/5972hp73.i/DF020314A73.b/WG16179-4A73CT.d
Date : 14-MAR-2002 11:09
Client ID: VZHLCS
Sample Info:
Purge Volume: 25.0
Column phase: ZB-624

Instrument: 5972hp73.i

Operator: 2429
Column diameter: 0.32

763



Data File: /chem/5972hp73.i/DF020314A73.b/WG16179-4A73CT.d
Report Date: 19-Mar-2002 10:14

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF020314A73.b/WG16179-4A73CT.d
Lab Smp Id: WG16179-4 Client Smp ID: VZMLCS
Inj Date : 14-MAR-2002 11:09
Operator : 2429 Inst ID: 5972hp73.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp73.i/DF020314A73.b/W8260-B-25MLv6.m
Meth Date : 18-Mar-2002 17:25 hubbard Quant Type: ISTD
Cal Date : 22-FEB-2002 22:50 Cal File: CY020222B73.d
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL3CT.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

nd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	10.183	10.180	(1.000)	243129	125.000	
* 2 Chlorobenzene-d5	117	13.057	13.064	(1.000)	183533	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14 750	14.747	(1.000)	91641	125.000	
$ 4 Dibromofluoromethane	113	9.366	9.363	(0.920)	73402	130.175	5.21
$ 5 1,2-Dichloroethane-d4	65	9.799	9.796	(0.962)	53947	112.665	4.51
$ 6 Toluene-d8	98	11.827	11.824	(0.906)	212363	115.367	4.61
$ 7 Bromofluorobenzene	95	13 903	13.910	(0.943)	83327	125.788	5.03
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
16 1,1-Dichloroethene	96	6.325	6.322	(0.621)	78468	120.067	4.80
21 Carbon disulfide	76	Compound Not Detected.					
18 Acetone	43	6.453	6.450	(0.634)	2738	27.4037	1.10(a)
24 Methylene Chloride	84	Compound Not Detected.					

Data File: /chem/5972hp73.i/DF020314A73.b/WG16179-4A73CT.d
Report Date: 19-Mar-2002 10:14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
27 trans-1,2-Dichloroethene	96	Compound Not Detected.					
30 1,1-Dichloroethane	63	Compound Not Detected.					
34 cis-1,2-Dichloroethene	96	Compound Not Detected.					
37 2-butanone	43	Compound Not Detected.					
42 Chloroform	83	9.159	9.166	(0.899)	5046	4.02207	0.161(a)
43 1,1,1-Trichloroethane	97	Compound Not Detected.					
48 Carbon Tetrachloride	117	Compound Not Detected.					
51 Benzene	78	9.848	9.855	(0.967)	324304	121.597	4.86
49 1,2-Dichloroethane	62	Compound Not Detected.					
53 Trichloroethene	130	10.606	10.613	(1.042)	87712	116.326	4.65
55 1,2-Dichloropropane	63	Compound Not Detected.					
59 Bromodichloromethane	83	Compound Not Detected.					
61 cis-1,3-Dichloropropene	75	Compound Not Detected.					
62 4-Methyl-2-pentanone	43	Compound Not Detected.					
63 Toluene	92	11.886	11.883	(0.910)	199154	131.692	5.27
64 trans-1,3-Dichloropropene	75	Compound Not Detected.					
65 1,1,2-Trichloroethane	97	Compound Not Detected.					
68 Tetrachloroethene	164	Compound Not Detected.					
69 2-hexanone	43	Compound Not Detected.					
70 Dibromochloromethane	129	12.614	12.621	(0.966)	367	0.76090	0.0304(a)
72 Chlorobenzene	112	13.087	13.084	(1.002)	200731	129.437	5.18
75 Ethylbenzene	106	13.126	13.123	(1.005)	702	0.81507	0.0326(a)
76 m,p-Xylene	106	13.205	13.202	(1.011)	2800	2.61404	0.105(a)
77 o-Xylene	106	Compound Not Detected.					
78 Styrene	104	Compound Not Detected.					
79 Bromoform	173	Compound Not Detected.					
82 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
M 107 Xylene (total)	106				2800	2.79466	0.112(a)

QC Flag Legend

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

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VZTLCS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: WG16203-4

Sample wt/vol: 25 (g/ml) ML Lab File ID: WG16203-4A71CT

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/13/02

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	4	
75-01-4	Vinyl Chloride	4	
74-83-9	Bromomethane	4	
75-00-3	Chloroethane	4	
75-35-4	1,1-Dichloroethene	5	
75-15-0	Carbon disulfide	4	
67-64-1	Acetone	18	B
75-09-2	Methylene Chloride	4	
156-60-5	trans-1,2-Dichloroethene	4	
75-34-3	1,1-Dichloroethane	4	
156-59-2	cis-1,2-Dichloroethene	4	
78-93-3	2-butanone	17	
67-66-3	Chloroform	4	B
71-55-6	1,1,1-Trichloroethane	5	
56-23-5	Carbon Tetrachloride	5	
71-43-2	Benzene	5	
107-06-2	1,2-Dichloroethane	4	
79-01-6	Trichloroethene	4	
78-87-5	1,2-Dichloropropane	4	
75-27-4	Bromodichloromethane	4	
10061-01-5	cis-1,3-Dichloropropene	4	
108-10-1	4-Methyl-2-pentanone	20	
108-88-3	Toluene	5	
10061-02-6	trans-1,3-Dichloropropene	7	
79-00-5	1,1,2-Trichloroethane	5	
127-18-4	Tetrachloroethene	6	
591-78-6	2-hexanone	22	
124-48-1	Dibromochloromethane	5	B
108-90-7	Chlorobenzene	5	
100-41-4	Ethylbenzene	5	B
108-38-3	m,p-Xylene	9	B
95-47-6	o-Xylene	5	
100-42-5	Styrene	5	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VZTLCS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: WG16203-4

Sample wt/vol: 25 (g/ml) ML Lab File ID: WG16203-4A71CT

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/13/02

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

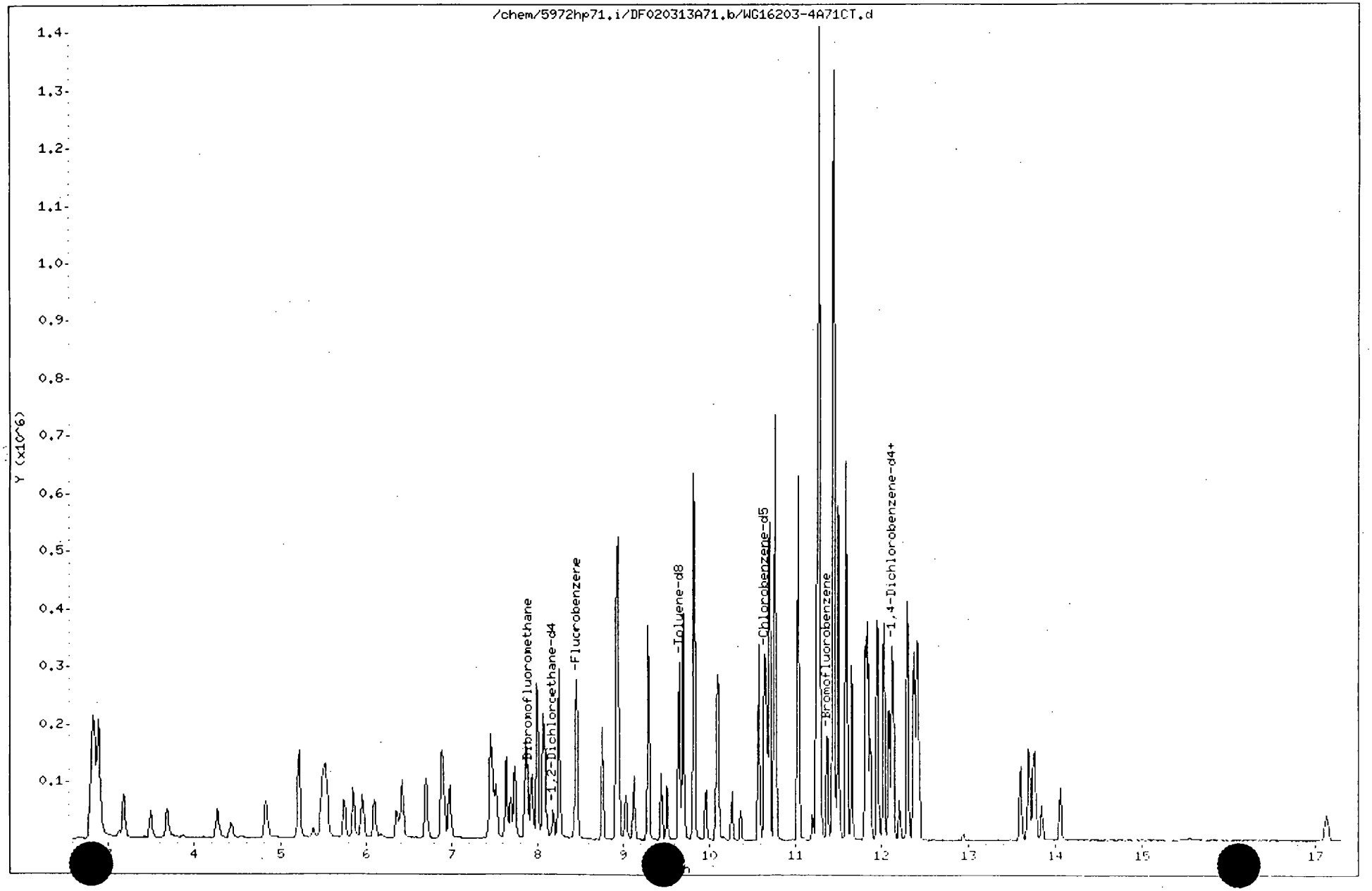
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-25-2	Bromoform	4	
79-34-5	1,1,2,2-Tetrachloroethane	5	
1330-20-7	Xylene (total)	16	B

Data File: /chem/5972hp71.i/DF020313A71.b/WG16203-4A71CT.d
Date : 13-MAR-2002 12:12
Client ID: VZTLCS
Sample Info:
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp71.i

Operator: 2423
Column diameter: 0.32



Data File: /chem/5972hp71.i/DF020313A71.b/WG16203-4A71CT.d
Report Date: 18-Mar-2002 13:51

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp71.i/DF020313A71.b/WG16203-4A71CT.d
Lab Smp Id: WG16203-4 Client Smp ID: VZTLCS
Inj Date : 13-MAR-2002 12:12
Operator : 2423 Inst ID: 5972hp71.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp71.i/DF020313A71.b/W8260-B-25MLv6.m
Meth Date : 18-Mar-2002 13:44 mead Quant Type: ISTD
Cal Date : 12-MAR-2002 10:36 Cal File: CX020312A71.d
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL3CT.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	8.455	8.454	(1.000)	206475	125.000	
* 2 Chlorobenzene-d5	117	10.649	10.649	(1.000)	140613	125.000	
* 3 1,4-Dichlorobenzene-d4	152	12.115	12.115	(1.000)	65079	125.000	
4 Dibromofluoromethane	113	7.884	7.884	(0.932)	57183	110.420	4.42
5 1,2-Dichloroethane-d4	65	8.179	8.179	(0.967)	26802	106.952	4.28
6 Toluene-d8	98	9.655	9.655	(0.907)	166747	137.978	5.52
7 Bromofluorobenzene	95	11.367	11.367	(0.938)	59380	128.072	5.12
8 Chloromethane	50	3.495	3.495	(0.413)	71940	104.911	4.20
10 Vinyl Chloride	62	3.682	3.682	(0.436)	68285	106.437	4.26
11 Bromomethane	94	4.263	4.263	(0.504)	48010	100.876	4.04
12 Chloroethane	64	4.420	4.420	(0.523)	31311	109.086	4.36
13 1,1-Dichloroethene	96	5.532	5.532	(0.654)	35572	115.831	4.63
14 Carbon disulfide	76	5.847	5.847	(0.692)	142292	104.735	4.19
18 Acetone	43	5.562	5.562	(0.658)	16899	451.663	18.07
24 Methylene Chloride	84	6.093	6.093	(0.721)	35130	99.9868	4.00

Rum 3/18/02

Data File: /chem/5972hp71.i/DF020313A71.b/WG16203-4A71CT.d
Report Date: 18-Mar-2002 13:51

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
27 trans-1,2-Dichloroethene	96	6.428	6.427	(0.760)	44889	110.482	4.42
30 1,1-Dichloroethane	63	6.880	6.880	(0.814)	70748	111.134	4.45
34 cis-1,2-Dichloroethene	96	7.451	7.461	(0.881)	45594	108.874	4.35
37 2-butanone	43	7.431	7.431	(0.879)	21867	428.008	17.12
42 Chloroform	83	7.736	7.736	(0.915)	79962	105.528	4.22
43 1,1,1-Trichloroethane	97	7.933	7.933	(0.938)	73578	118.401	4.74
48 Carbon Tetrachloride	117	8.081	8.090	(0.956)	70686	123.009	4.92
51 Benzene	78	8.248	8.248	(0.976)	199142	116.471	4.66
49 1,2-Dichloroethane	62	8.248	8.248	(0.976)	35147	107.392	4.30
53 Trichloroethene	130	8.760	8.760	(1.036)	62708	107.823	4.31
55 1,2-Dichloropropane	63	8.927	8.927	(1.056)	50665	106.174	4.25
59 Bromodichloromethane	83	9.124	9.124	(1.079)	58851	95.8662	3.83
61 cis-1,3-Dichloropropene	75	9.448	9.448	(1.118)	59402	100.200	4.01
62 4-Methyl-2-pentanone	43	9.507	9.507	(0.893)	64036	504.006	20.16
63 Toluene	92	9.704	9.704	(0.911)	130726	131.990	5.28
64 trans-1,3-Dichloropropene	75	9.448	9.822	(0.887)	59402	175.144	7.01
65 1,1,2-Trichloroethane	97	9.970	9.970	(0.936)	25443	119.668	4.79
66 Tetrachloroethene	164	10.108	10.108	(0.949)	52914	145.837	5.83
69 2-hexanone	43	10.078	10.078	(0.946)	44315	544.963	21.80
70 Dibromochloromethane	129	10.265	10.265	(0.964)	36885	118.102	4.72
72 Chlorobenzene	112	10.669	10.668	(1.002)	138694	129.487	5.18
75 Ethylbenzene	106	10.708	10.708	(1.006)	76725	119.710	4.79
76 m,p-Xylene	106	10.767	10.767	(1.011)	198445	213.261	8.53
77 o-Xylene	106	11.033	11.033	(1.036)	86588	119.421	4.78
78 Styrene	104	11.042	11.042	(1.037)	129691	136.372	5.45
79 Bromoform	173	11.200	11.200	(1.052)	17172	112.164	4.49
82 1,1,2,2-Tetrachloroethane	83	11.416	11.416	(0.942)	28947	114.928	4.60
M 107 Xylene (total)	106				285033	393.113	15.72

d. Matrix Spike Data

- Tabulated Results (Form I VOA)
- Reconstructed Ion Chromatogram and quantitation report

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-13BMS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: WG16179-6

Sample wt/vol: 25 (g/ml) ML Lab File ID: WG16179-6B73

Level: (low/med) LOW Date Received: 03/08/02

% Moisture: not dec. _____ Date Analyzed: 03/14/02

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 167.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	740	
75-01-4	Vinyl Chloride	700	
74-83-9	Bromomethane	690	
75-00-3	Chloroethane	690	
75-35-4	1,1-Dichloroethene	790	
75-15-0	Carbon disulfide	710	
67-64-1	Acetone	3600	B
75-09-2	Methylene Chloride	850	
156-60-5	trans-1,2-Dichloroethene	820	
75-34-3	1,1-Dichloroethane	820	
156-59-2	cis-1,2-Dichloroethene	820	
78-93-3	2-butanone	4500	
67-66-3	Chloroform	760	
71-55-6	1,1,1-Trichloroethane	690	
56-23-5	Carbon Tetrachloride	680	
71-43-2	Benzene	810	
107-06-2	1,2-Dichloroethane	710	
79-01-6	Trichloroethene	730	
78-87-5	1,2-Dichloropropane	880	
75-27-4	Bromodichloromethane	710	
10061-01-5	cis-1,3-Dichloropropene	740	
108-10-1	4-Methyl-2-pentanone	4200	
108-88-3	Toluene	800	
10061-02-6	trans-1,3-Dichloropropene	720	
79-00-5	1,1,2-Trichloroethane	820	
127-18-4	Tetrachloroethene	800	
591-78-6	2-hexanone	4100	
124-48-1	Dibromochloromethane	710	
108-90-7	Chlorobenzene	800	
100-41-4	Ethylbenzene	2700	B
108-38-3	m,p-Xylene	8200	B
95-47-6	o-Xylene	1300	B
100-42-5	Styrene	790	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-13BMS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: WG16179-6

Sample wt/vol: 25 (g/ml) ML Lab File ID: WG16179-6B73

Level: (low/med) LOW Date Received: 03/08/02

% Moisture: not dec. _____ Date Analyzed: 03/14/02

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 167.0

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

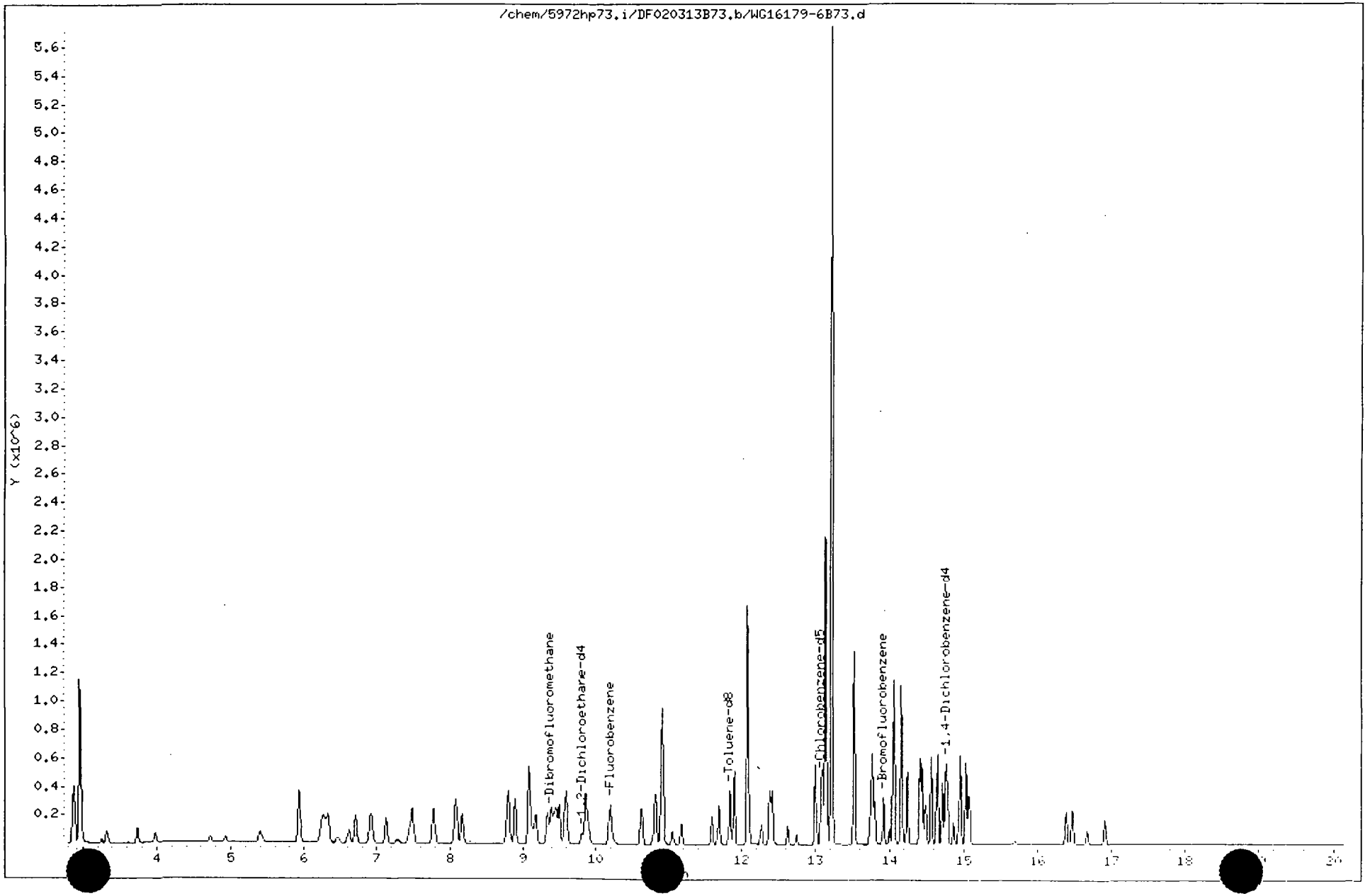
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-25-2	Bromoform	700	
79-34-5	1,1,2,2-Tetrachloroethane	790	
1330-20-7	Xylene (total)	10000	B

FORM I VOA

Data File: /chem/5972hp73.i/DF020313B73.b/WG16179-6B73.d
Date : 14-MAR-2002 00:46
Client ID: MW-13BMS
Sample Info:
Purge Volume: 25.0
Column phase: ZB-624

Instrument: 5972hp73.i

Operator: 2323
Column diameter: 0.32



Data File: /chem/5972hp73.i/DF020313B73.b/WG16179-6B73.d
Report Date: 18-Mar-2002 14:32

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF020313B73.b/WG16179-6B73.d
Lab Smp Id: WG16179-6 Client Smp ID: MW-13BMS
Inj Date : 14-MAR-2002 00:46
Operator : 2323 Inst ID: 5972hp73.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp73.i/DF020313B73.b/W8260-B-25MLv6.m
Meth Date : 18-Mar-2002 14:02 mead Quant Type: ISTD
Cal Date : 22-FEB-2002 22:50 Cal File: CY020222B73.d
Als bottle: 9 QC Sample: MS
Dil Factor: 167.00000
Integrator: HP RTE Compound Sublist: TCL3CT.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	167.00000	Dilution Factor
Vo	25.00000	volume of water
DF	167.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	10.195	10.193	(1.000)	295634	125.000	
* 2 Chlorobenzene-d5	117	13.069	13.067	(1.000)	225642	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.752	14.760	(1.000)	114691	125.000	
3 4 Dibromofluoromethane	113	9.378	9.376	(0.920)	85847	125.206	836.4
3 5 1,2-Dichloroethane-d4	65	9.811	9.809	(0.962)	62513	107.368	717.2
3 6 Toluene-d8	98	11.829	11.836	(0.905)	351078	110.945	741.1
3 7 Bromofluorobenzene	95	13.916	13.913	(0.943)	100131	120.777	806.8
9 Chloromethane	50	3.729	3.736	(0.366)	118517	111.486	744.7
10 Vinyl Chloride	62	3.975	3.982	(0.390)	89240	104.493	698.0
11 Bromomethane	94	4.723	4.720	(0.463)	41299	103.513	691.5
12 Chloroethane	64	4.929	4.927	(0.484)	41420	103.732	692.9
14 1,1-Dichloroethene	96	6.337	6.334	(0.622)	94513	118.933	794.5
21 Carbon disulfide	76	6.721	6.718	(0.659)	353571	106.644	712.4
18 Acetone	43	6.465	6.462	(0.634)	65692	540.718	3612
24 Methylene Chloride	84	7.124	7.122	(0.699)	96590	127.068	848.8

Rev 3/18/2

Data File: /chem/5972hp73.i/DF020313B73.b/WG16179-6B73.d
Report Date: 18-Mar-2002 14:32

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
27 trans-1,2-Dichloroethene	96	7.488	7.486	(0.734)	102621	122.587	818.9
30 1,1-Dichloroethane	63	8.069	8.077	(0.791)	191613	122.884	820.9
34 cis-1,2-Dichloroethene	96	8.807	8.805	(0.864)	98877	122.599	819.0
37 2-butanone	43	8.807	8.805	(0.864)	103137	677.968	4529
42 Chloroform	83	9.181	9.179	(0.901)	173378	113.652	759.2
43 1,1,1-Trichloroethane	97	9.398	9.395	(0.922)	148626	103.457	691.1
48 Carbon Tetrachloride	117	9.595	9.592	(0.941)	127172	102.487	684.6
51 Benzene	78	9.870	9.868	(0.968)	392877	121.146	809.3
49 1,2-Dichloroethane	62	9.910	9.907	(0.972)	88658	105.793	706.7
53 Trichloroethene	130	10.628	10.626	(1.042)	100252	109.344	730.4
55 1,2-Dichloropropane	63	10.894	10.892	(1.069)	88982	131.428	877.9
59 Bromodichloromethane	83	11.170	11.177	(1.096)	103113	106.529	711.6
61 cis-1,3-Dichloropropene	75	11.593	11.590	(1.137)	115930	110.516	738.2
62 4-Methyl-2-pentanone	43	11.681	11.679	(0.894)	236770	621.375	4151
63 Toluene	92	11.898	11.895	(0.910)	222431	119.636	799.2
64 trans-1,3-Dichloropropene	75	12.085	12.082	(0.925)	86525	108.001	721.4
65 1,1,2-Trichloroethane	97	12.272	12.269	(0.939)	47711	122.732	819.8
68 Tetrachloroethene	164	12.380	12.388	(0.947)	89525	120.326	803.8
69 2-hexanone	43	12.410	12.407	(0.950)	158123	618.506	4132
70 Dibromochloromethane	129	12.626	12.624	(0.966)	63407	106.928	714.3
72 Chlorobenzene	112	13.099	13.096	(1.002)	229479	120.359	804.0
75 Ethylbenzene	106	13.128	13.136	(1.005)	425818	402.137	2686
76 m,p-Xylene	106	13.217	13.214	(1.011)	1624060	1233.25	8238
77 o-Xylene	106	13.522	13.519	(1.035)	248468	201.714	1347
78 Styrene	104	13.532	13.529	(1.035)	230652	117.929	787.8
79 Bromoform	173	13.738	13.736	(1.051)	34788	105.171	702.5(M)
82 1,1,2,2-Tetrachloroethane	83	14.004	14.002	(0.949)	53858	118.794	793.5
M 167 Xylene (total)	106				1872528	1520.17	10150

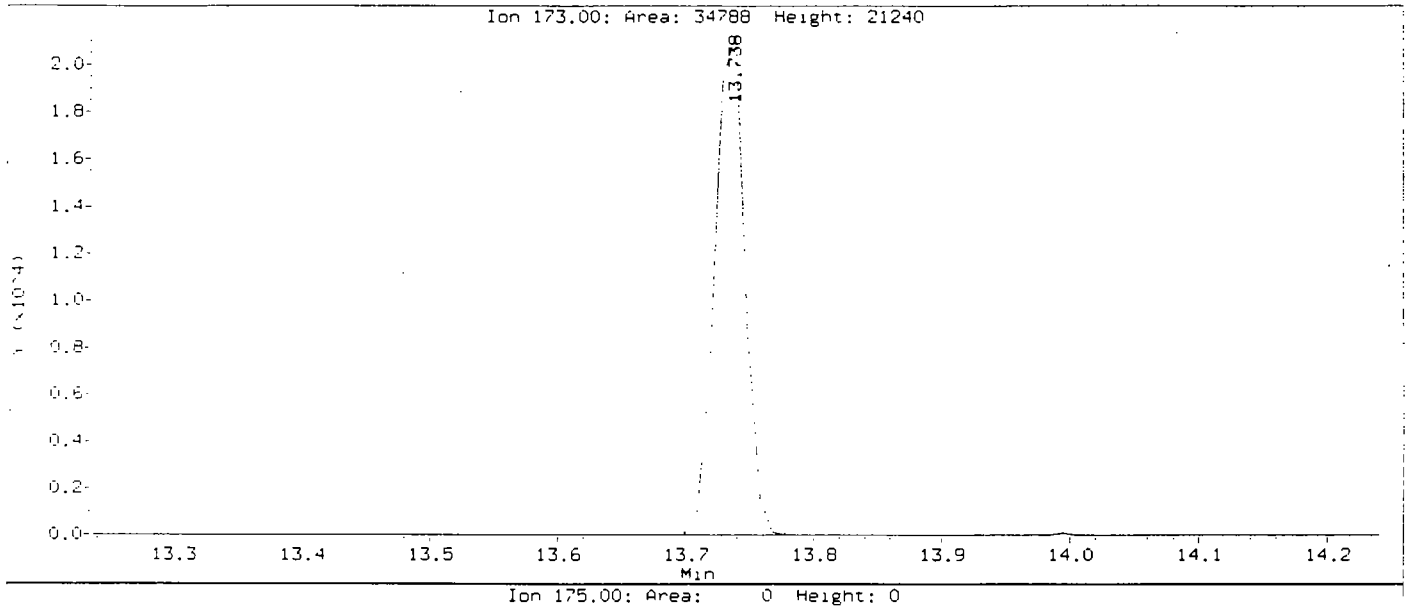
QC Flag Legend

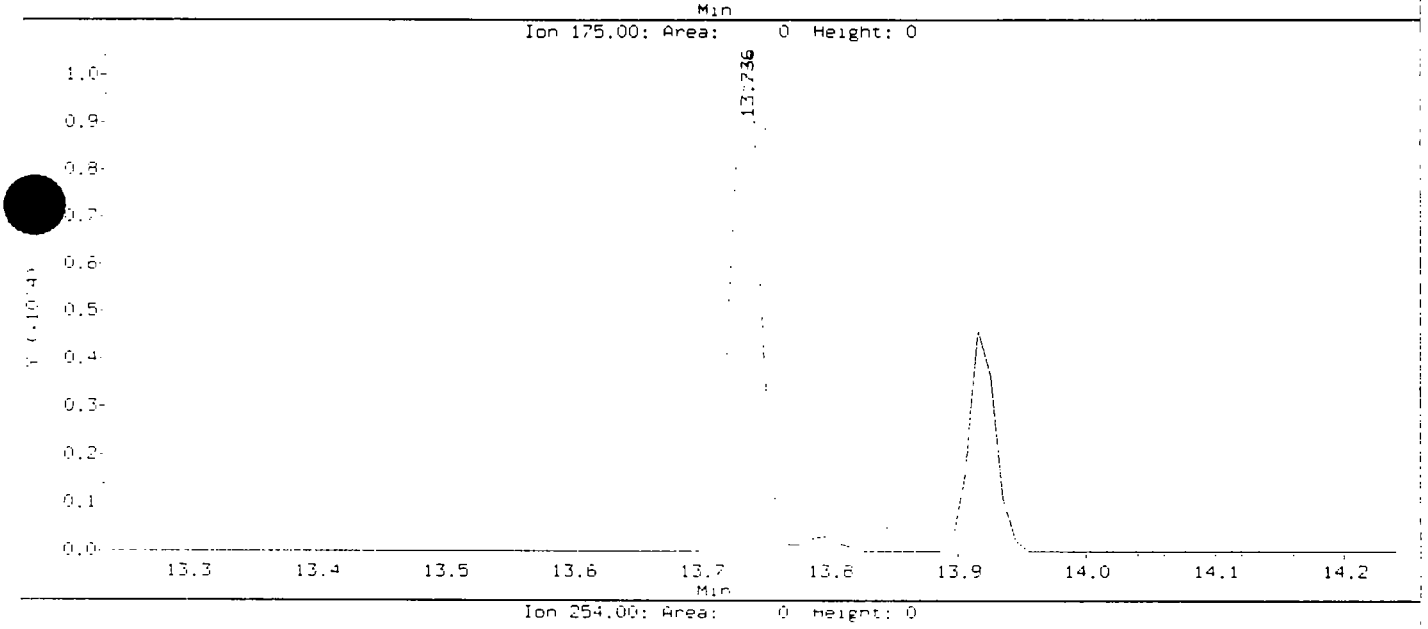
M - Compound response manually integrated.

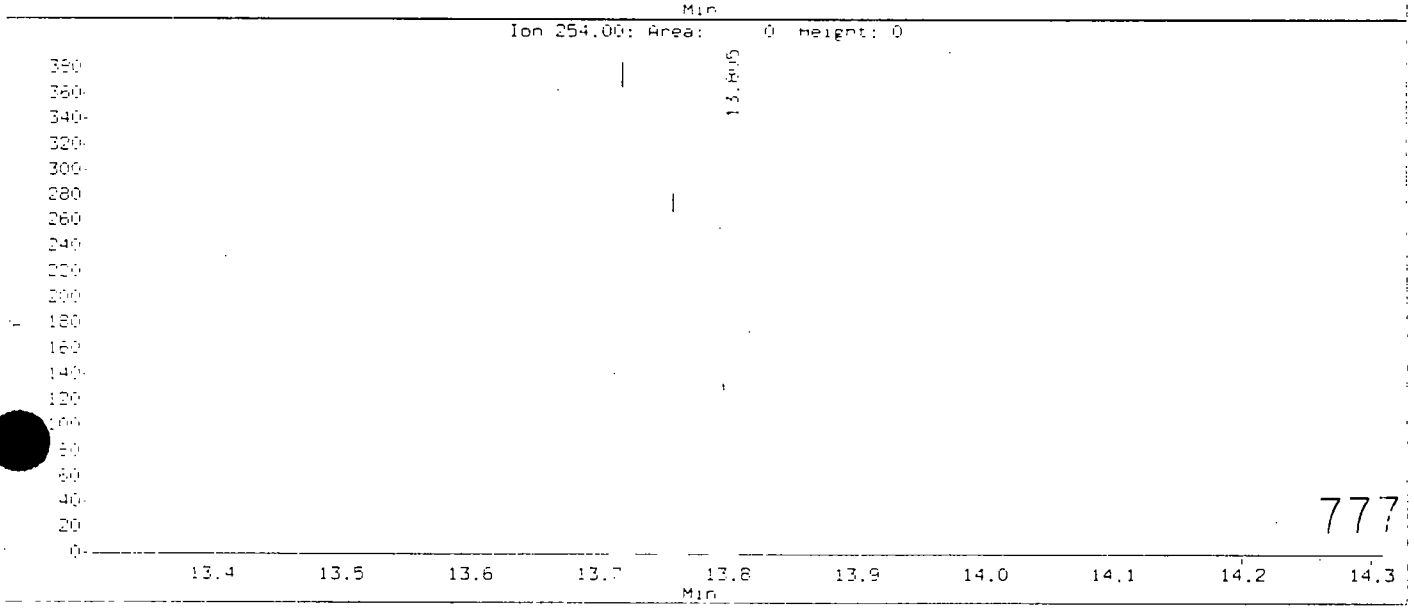
Rmm 3/15/2

Data File: /chem/5972hp73.i/DF020313B73.b/WG16179-6B73.d
Injection Date: 14-MAR-2002 00:46
Instrument: 5972hp73.i
Client Sample ID: MW-13BMS

ound: Bromoform
Number: 75-25-2







777

e. Matrix Spike Duplicate Data

- Tabulated Results (Form I VOA)

- Reconstructed Ion Chromatogram and quantitation report

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-13BMSD

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: WG16179-7

Sample wt/vol: 25 (g/ml) ML Lab File ID: WG16179-7B73

Level: (low/med) LOW Date Received: 03/08/02

% Moisture: not dec. _____ Date Analyzed: 03/14/02

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 167.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	800	
75-01-4	Vinyl Chloride	750	
74-83-9	Bromomethane	720	
75-00-3	Chloroethane	720	
75-35-4	1,1-Dichloroethene	860	
75-15-0	Carbon disulfide	720	
67-64-1	Acetone	3100	B
75-09-2	Methylene Chloride	890	
156-60-5	trans-1,2-Dichloroethene	900	
75-34-3	1,1-Dichloroethane	880	
156-59-2	cis-1,2-Dichloroethene	870	
78-93-3	2-butanone	3800	
67-66-3	Chloroform	810	
71-55-6	1,1,1-Trichloroethane	750	
56-23-5	Carbon Tetrachloride	740	
71-43-2	Benzene	870	
107-06-2	1,2-Dichloroethane	760	
79-01-6	Trichloroethene	780	
78-87-5	1,2-Dichloropropane	940	
75-27-4	Bromodichloromethane	760	
10061-01-5	cis-1,3-Dichloropropene	800	
108-10-1	4-Methyl-2-pentanone	3300	
108-88-3	Toluene	850	
10061-02-6	trans-1,3-Dichloropropene	770	
79-00-5	1,1,2-Trichloroethane	860	
127-18-4	Tetrachloroethene	870	
591-78-6	2-hexanone	3400	
124-48-1	Dibromochloromethane	740	
108-90-7	Chlorobenzene	860	
100-41-4	Ethylbenzene	2400	B
108-38-3	m,p-Xylene	7000	B
95-47-6	o-Xylene	1300	B
100-42-5	Styrene	840	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-13BMSD

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: QE1877

Matrix: (soil/water) WATER Lab Sample ID: WG16179-7

Sample wt/vol: 25 (g/ml) ML Lab File ID: WG16179-7B73

Level: (low/med) LOW Date Received: 03/08/02

% Moisture: not dec. _____ Date Analyzed: 03/14/02

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 167.0

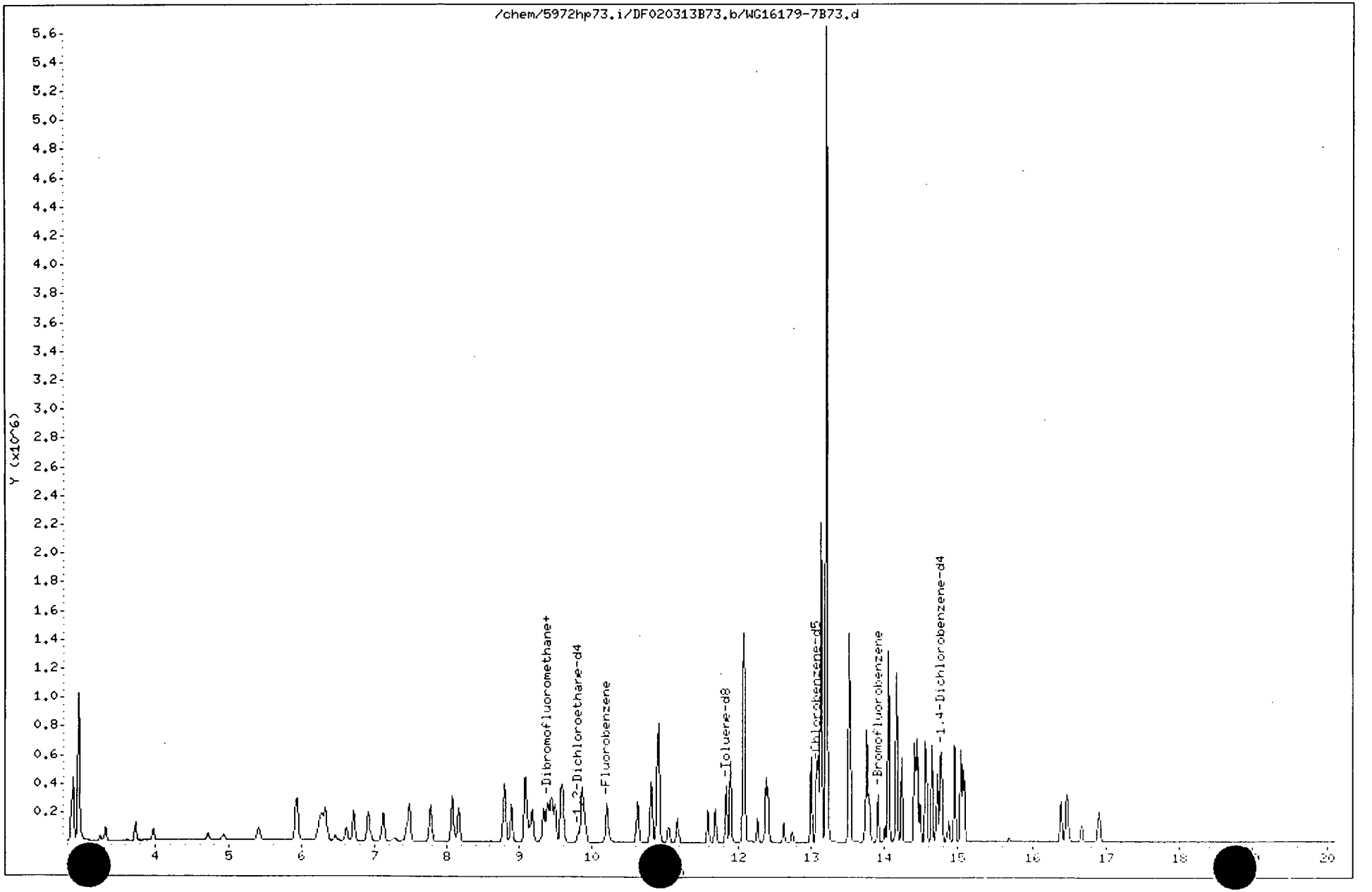
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-25-2	Bromoform	750	
79-34-5	1,1,2,2-Tetrachloroethane	810	
1330-20-7	Xylene (total)	8900	B

Data File: /chem/5972hp73.i/DF020313B73.b/WG16179-7B73.d
Date : 14-MAR-2002 01:13
Client ID: MW-13BMSD
Sample Info:
Purge Volume: 25.0
Column phase: ZB-624

Instrument: 5972hp73.i

Operator: 2323
Column diameter: 0.32



Data File: /chem/5972hp73.i/DF020313B73.b/WG16179-7B73.d
Report Date: 18-Mar-2002 14:32

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF020313B73.b/WG16179-7B73.d
Lab Smp Id: WG16179-7 Client Smp ID: MW-13BMSD
Inj Date : 14-MAR-2002 01:13
Operator : 2323 Inst ID: 5972hp73.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp73.i/DF020313B73.b/W8260-B-25MLv6.m
Meth Date : 18-Mar-2002 14:02 mead Quant Type: ISTD
Cal Date : 22-FEB-2002 22:50 Cal File: CY020222B73.d
Als bottle: 10 QC Sample: MSD
Dil Factor: 167.00000
Integrator: HP RTE Compound Sublist: TCL3CT.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	167.00000	Dilution Factor
Vo	25.00000	volume of water
DF	167.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	10.198	10.193	(1.000)	302800	125.000	
* 2 Chlorobenzene-d5	117	13.072	13.067	(1.000)	236719	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.755	14.760	(1.000)	122681	125.000	
S 4 Dibromofluoromethane	113	9.381	9.376	(0.920)	84280	120.012	801.7
S 5 1,2-Dichloroethane-d4	65	9.814	9.809	(0.962)	61300	102.793	686.7
S 6 Toluene-d8	98	11.832	11.836	(0.905)	253646	106.835	713.7
S 7 Bromofluorobenzene	95	13.919	13.913	(0.943)	102653	115.755	773.2
9 Chloromethane	50	3.732	3.736	(0.366)	130759	120.091	802.2
10 Vinyl Chloride	62	3.978	3.982	(0.390)	98559	112.674	752.7
11 Bromomethane	94	4.716	4.720	(0.462)	43811	107.211	716.2
12 Chloroethane	64	4.923	4.927	(0.483)	44057	107.725	719.6
16 1,1-Dichloroethene	96	6.330	6.334	(0.621)	105034	129.045	862.0
21 Carbon disulfide	76	6.714	6.718	(0.658)	364017	107.196	716.1
18 Acetone	43	6.468	6.462	(0.634)	57405	461.324	3082
24 Methylene Chloride	84	7.117	7.122	(0.698)	104057	133.652	892.8

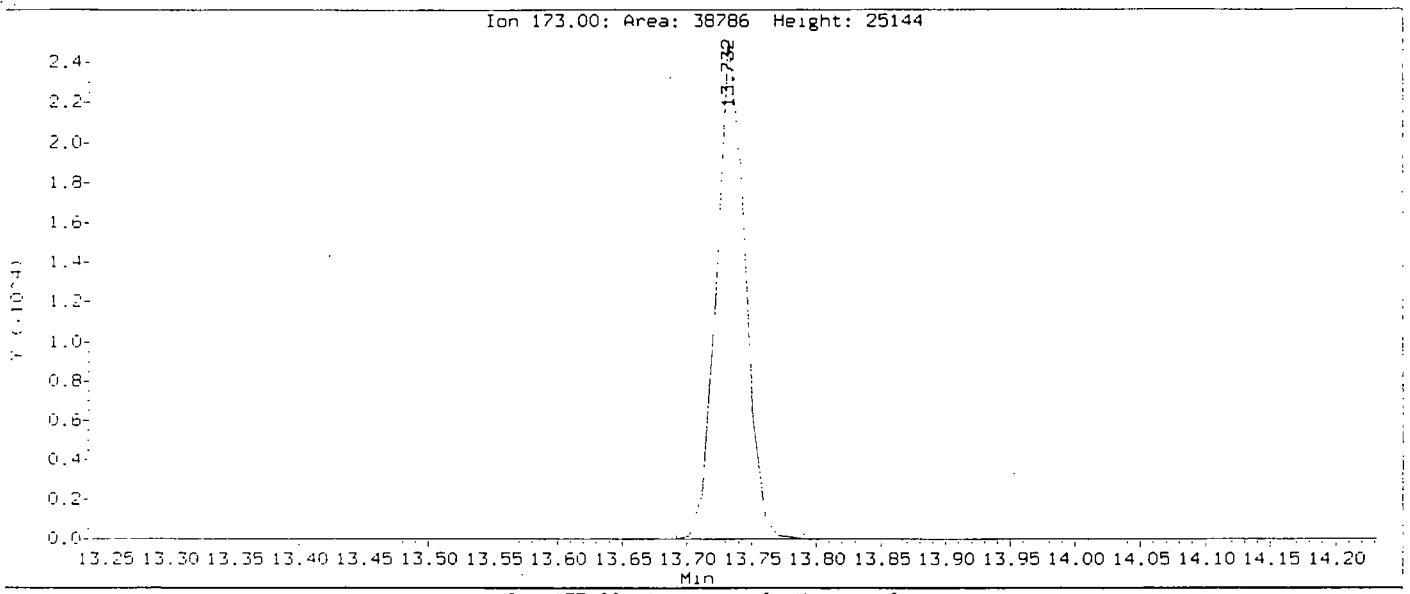
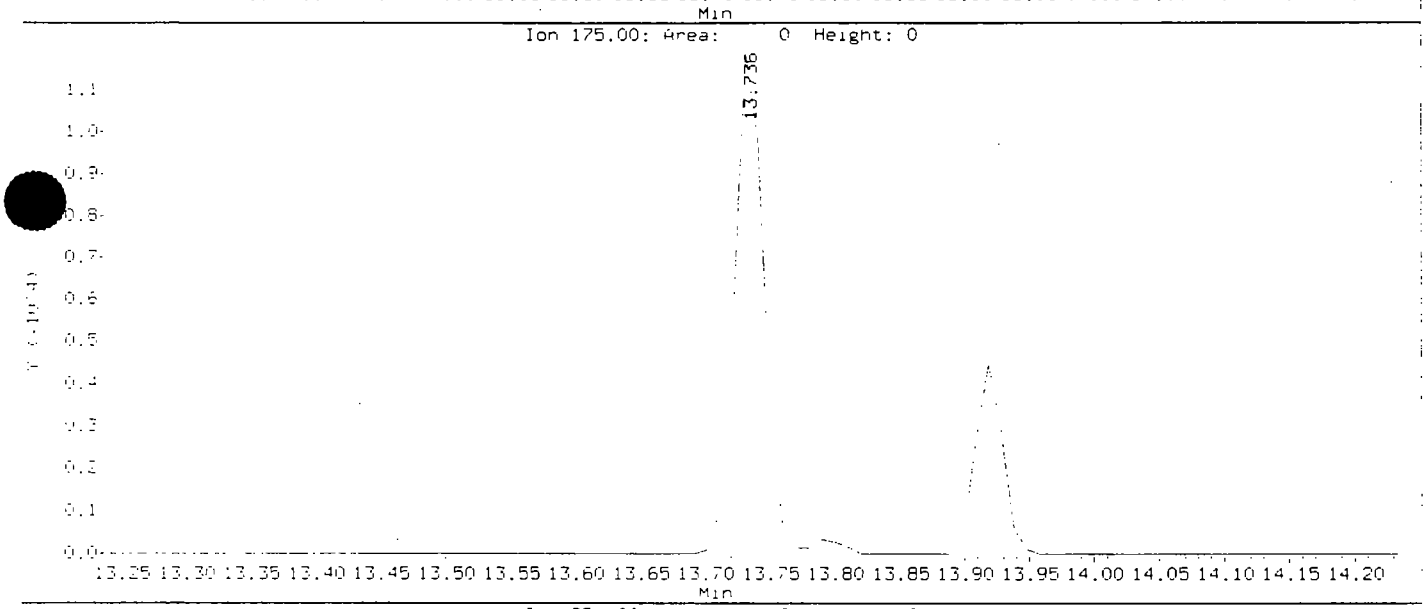
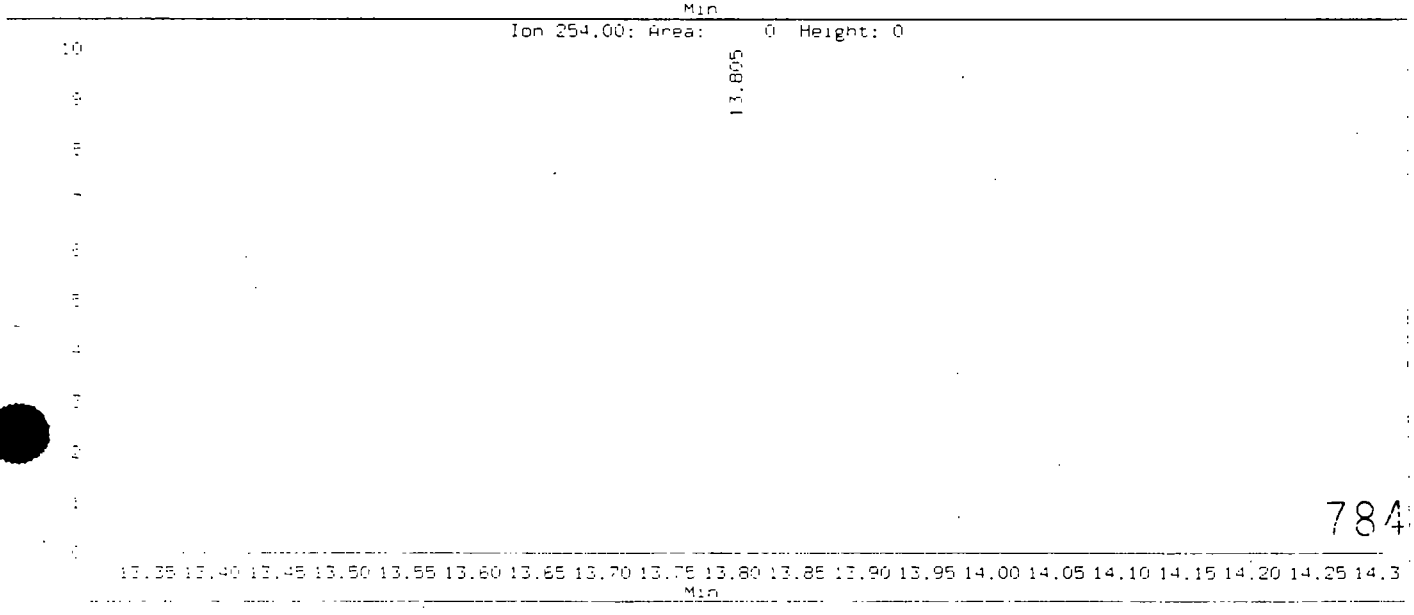
Pum 3/18/2

Data File: /chem/5972hp73.i/DF020313B73.b/WG16179-7B73.d
Report Date: 18-Mar-2002 14:32

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
27 trans-1,2-Dichloroethene	96	7.491	7.486	(0.735)	115735	134.980	901.7
30 1,1-Dichloroethane	63	8.072	8.077	(0.792)	211465	132.406	884.5
34 cis-1,2-Dichloroethene	96	8.810	8.805	(0.864)	108182	130.962	874.8
37 2-butanone	43	8.800	8.805	(0.863)	87670	562.658	3759
42 Chloroform	83	9.174	9.179	(0.900)	190167	121.708	813.0
43 1,1,1-Trichloroethane	97	9.401	9.395	(0.922)	166222	112.967	754.6
48 Carbon Tetrachloride	117	9.598	9.592	(0.941)	141322	111.195	742.8
51 Benzene	78	9.863	9.868	(0.967)	434435	130.790	873.7
49 1,2-Dichloroethane	62	9.913	9.907	(0.972)	97357	113.424	757.7
53 Trichloroethene	130	10.621	10.626	(1.041)	110232	117.383	784.1
55 1,2-Dichloropropane	63	10.897	10.892	(1.069)	97175	140.132	936.1
59 Bromodichloromethane	83	11.172	11.177	(1.096)	112048	113.020	755.0
61 cis-1,3-Dichloropropene	75	11.586	11.590	(1.136)	128032	119.164	796.0
62 4-Methyl-2-pentanone	43	11.684	11.679	(0.894)	199056	497.954	3326
63 Toluene	92	11.891	11.895	(0.910)	248769	127.541	852.0
64 trans-1,3-Dichloropropene	75	12.088	12.082	(0.925)	96691	115.042	768.5
65 1,1,2-Trichloroethane	97	12.265	12.269	(0.938)	52709	129.244	863.3
68 Tetrachloroethene	164	12.383	12.388	(0.947)	101160	129.602	865.7
69 2-hexanone	43	12.413	12.407	(0.950)	135657	505.799	3379
70 Dibromochloromethane	129	12.629	12.624	(0.966)	68611	110.289	736.7
72 Chlorobenzene	112	13.092	13.096	(1.002)	256627	128.300	857.0
75 Ethylbenzene	106	13.131	13.136	(1.005)	393803	354.500	2368
76 m,p-Xylene	106	13.210	13.214	(1.011)	1457161	1054.73	7046
77 o-Xylene	106	13.515	13.519	(1.034)	257690	199.411	1332
78 Styrene	104	13.525	13.529	(1.035)	259406	126.425	844.5
79 Bromoform	173	13.732	13.736	(1.050)	38786	111.771	746.6(M)
82 1,1,2,2-Tetrachloroethane	83	14.007	14.002	(0.949)	59005	121.671	812.8
M 107 Xylene (total)	106				1714851	1327.02	8865

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/5972hp73.i/DF020313B73.b/WG16179-7B73.d
Injection Date: 14-MAR-2002 01:13
Instrument: 5972hp73.i
Client Sample ID: MW-13BMSD

Compound: Bromoform
CAS Number: 75-25-2