9/90

Pole - Lite Site Review

RI/FS Supporting Analytical Data

ADIRONDACK ENVIRONMENTAL ASSOCIATES

aquatec INC.

ANALYTICAL RESULTS

aquatec
ENVIRONMENTAL SERVICES
75 Green Mountain Drive, So. Burlington, VT 05403
TEL. 802/656-1074

NARRATIVE

aquatec
ENVIRONMENTAL SERVICES
75 Green Mountain Drive, So. Burlington, VT 05403
TEL. 802/658-1074

FEDERAL EXPRESS

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PACKAGE TRACKING NUMBER **5969800874**

19N 5969800874

Date 6/22/90

RECIPIENT'S COPY

1 From (Your Name) Please Print	Your Phone Number (Very Important)	2 To (Recipient's Name) Please Print	Recipient's Phone Number (Very Important)
Joseph K. Comeau, Ph.D.	(802) 658-1074	Mr. John Humphrey	( )
Company	**Department/Floor No.**	**Company**	**Department/Floor No.**
AQUATEC		Adirondack Environmental Associates	
Street Address		**Exact Street Address** (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.)	
75 GREEN MOUNTAIN DR 1ST FLR		63 Bridge Street	
City / **State** / **ZIP Required**		**City** / **State** / **ZIP Required**	
SOUTH BURLINGTON VT 05403		Plattsburgh NY 12901	

YOUR INTERNAL BILLING REFERENCE INFORMATION (First 24 characters will appear on invoice.)
Aquatec Project No. 90000

H IF HOLD FOR PICK-UP, Print FEDEX Address Here
Street Address
City / State / ZIP Required

3 PAYMENT 1 [X] Bill Sender 2 [ ] Bill Recipient's FedEx Acct. No. 3 [ ] Bill 3rd Party FedEx Acct. No. 4 [ ] Bill Credit Card
5 [ ] Cash

4 SERVICES (Check only one box)

Priority Overnight Service (Delivery by next business morning†)		Standard Overnight Service (Delivery by next business afternoon†)	
11	[X] YOUR PACKAGING	51	[ ]
16	[ ] FEDEX LETTER *	56	[ ] FEDEX LETTER *
12	[ ] FEDEX PAK *	52	[ ] FEDEX PAK *
13	[ ] FEDEX BOX	53	[ ] FEDEX BOX
14	[ ] FEDEX TUBE	54	[ ] FEDEX TUBE

Economy Service (formerly Standard Air) (Delivery by second business day†)		Heavyweight Service (for Extra Large or any package over 150 lbs.)	
30	[ ] ECONOMY SERVICE	70	[ ] HEAVYWEIGHT **
		80	[ ] DEFERRED HEAVYWEIGHT **

†Delivery commitment may be later in some areas. *Declared Value Limit $100. **Call for delivery schedule.

DELIVERY AND SPECIAL HANDLING

1	[ ]	HOLD FOR PICK-UP (Fill in Box H)
2	[X]	DELIVER WEEKDAY
3	[ ]	DELIVER SATURDAY (Extra charge) (Not available to all locations)
4	[ ]	DANGEROUS GOODS (Extra charge) (Call not available for Dangerous Goods Shipments)
5	[ ]	CONSTANT SURVEILLANCE SVC. (CSS) (Extra charge) (Release Signature Not Applicable)
6	[ ]	DRY ICE ____ Lbs.
7	[ ]	OTHER SPECIAL SERVICE ____
8	[ ]	
9	[ ]	SATURDAY PICK-UP (Extra charge)
10	[ ]	
11	[ ]	DESCRIPTION
12	[ ]	HOLIDAY DELIVERY (If offered) (Extra charge)

	PACKAGES	WEIGHT In Pounds Only	YOUR DECLARED VALUE	OVER SIZE
	1	5		
Total	1	5	Total	

DIM SHIPMENT (Heavyweight Services Only) [ ] ____ lbs.

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1 [ ] Regular Stop 3 [ ] Drop Box 4 [ ] B.S.C. 2 [ ] On-Call Stop 5 [ ] Station

FedEx Emp. No. Date/Time

5 Release Signature: X

Emp. No. / Date
[ ] Cash Received
[ ] Return Shipment
[ ] Third Party [ ] Chg. To Del. [ ] Chg. To Hold
Street Address
City / State / Zip
Received By: X
Date/Time Received / FedEx Employee Number

Federal Express Use	
Base Charges	
Declared Value Charge	
Other 1	
Other 2	
Total Charges	

REVISION DATE 11/89
PART # 119501 WCSEL
FORMAT #014

014

aquatec INC. ENVIRONMENTAL SERVICES

75 GREEN MOUNTAIN DRIVE, SOUTH BURLINGTON, VERMONT 05403, TELEPHONE (802) 658-1074

June 22, 1990

Mr. John Humphrey
Adirondack Environmental
Associates
63 Bridge Street
Plattsburgh, NY 12901

Re: Aquatec Project No. 90000
Case No. 21422; SDG No. 114814
ETR Nos. 21422, 21436 and 21455

Dear Mr. Humphrey:

Enclosed are the results of analyses performed on soil samples received from Adirondack Environmental Associates.

The samples were received intact from May 16 to May 18, 1990. For the samples received, laboratory numbers were assigned and designated as follows:

Sample Description	Aquatec	Aquatec ETR No.	Sample Matrix
Trip Blank	114814	21422	Water
MW- 9 5.5'-7.5'	114815		Soil
MW- 9 10'-12'	114816		Soil
MW-10 5.5'-7.5'	114817		Soil
MW-10 20'-22'	114818		Soil
MW-10 20'-22'	114818MS		Soil
MW-10 20'-22'	114818MD		Soil
6,-4	114819		Soil
7,-3	114820		Soil
MW-11 5.5'-7.5'	114821		Soil
MW-11 18'-20'	114822		Soil
VMBLK, Matrix Spike Blank	115921		Water
MW-12 5.5'-7.5'	114877		Soil
MW-12 18'-20'	114878		Soil
MW-13 34'-34.5	114879		Soil
Septic Sludge	114880		Soil
Trip Blank	114944		Water
MW-12 18'-20' Duplicate	114945		Soil

Subsamples of a soil sample labeled MW-10 20'-22' were designated by the laboratory for quality control analyses. These quality control samples were independently logged into the laboratory for the purpose of internal sample tracking. The quality control

samples were assigned the laboratory numbers 114818MS (matrix spike) and 114818MD (matrix spike duplicate). A matrix spike blank (VMBLK) was also logged into the laboratory and assigned the laboratory number 115921.

A screen for volatile organics was performed by gas chromatography to determine whether sample dilutions would be required prior to sample analysis by gas chromatography/mass spectrometry. The results of the screening procedure indicated that the "Septic Sludge" (Lab No. 114880) would require a medium level methanol extraction. Two analyses were performed on the methanol extract of the septic sludge. Because so little of the extract was analyzed (25 ul and 0.35 ul), the quantitation of volatile organics was determined against a low level, water analysis calibration curve. An "E" qualifier (compound out of calibration range) was used to report the results of certain volatile organics in the original analysis of the septic sludge. The results of both the original analysis and the dilution analysis (the lab number carries a "D" suffix) are included in this submittal. Due to the nature of this sample, the results are reported on an "as received" basis.

A reanalysis for volatile organics was performed one day out of holding time on samples 114820 and 114818MD. The reanalyses were required because the surrogate recovery for bromofluorobenzene was out of the control limits in both of the original analyses which were performed within holding time. The results of both reanalyses compared favorably with the original analyses and are formally reported here. The results of the original analyses are carried in the Organic Sample Preparation section of the data package. Sample MW-11 18'-20' (Lab No. 114822) was analyzed one day out of holding time.

Sincerely,

R. Mason McKee

for Joseph K. Comeau, Ph.D.
Vice President
Chemistry Division

JKC/amp

Enclosure

90000B22JUN90

ANALYTICAL RESULTS

aquatec
ENVIRONMENTAL SERVICES
75 Green Mountain Drive, So. Burlington, VT 05403
TEL. 802/656-1074

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) WATER Lab Sample ID: 114814

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: C114814V

Level: (low/med) LOW Date Received: 05/16/90

% Moisture: not dec._____ Date Analyzed: 05/18/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	7	B
67-64-1	Acetone	7	BJ
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-10 5.5'-7

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) SOIL Lab Sample ID: 114817

Sample wt/vol: 3.1 (g/mL) G Lab File ID: C114817V

Level: (low/med) LOW Date Received: 05/16/90

% Moisture: not dec. 8 Date Analyzed: 05/22/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	18	U
74-83-9	Bromomethane	18	U
75-01-4	Vinyl Chloride	18	U
75-00-3	Chloroethane	18	U
75-09-2	Methylene Chloride	11	BJ
67-64-1	Acetone	8	BJ
75-15-0	Carbon Disulfide	9	U
75-35-4	1,1-Dichloroethene	9	U
75-34-3	1,1-Dichloroethane	9	U
540-59-0	1,2-Dichloroethene (total)	9	U
67-66-3	Chloroform	9	U
107-06-2	1,2-Dichloroethane	9	U
78-93-3	2-Butanone	18	U
71-55-6	1,1,1-Trichloroethane	9	U
56-23-5	Carbon Tetrachloride	9	U
108-05-4	Vinyl Acetate	18	U
75-27-4	Bromodichloromethane	9	U
78-87-5	1,2-Dichloropropane	9	U
10061-01-5	cis-1,3-Dichloropropene	9	U
79-01-6	Trichloroethene	9	U
124-48-1	Dibromochloromethane	9	U
79-00-5	1,1,2-Trichloroethane	9	U
71-43-2	Benzene	9	U
10061-02-6	trans-1,3-Dichloropropene	9	U
75-25-2	Bromoform	9	U
108-10-1	4-Methyl-2-Pentanone	18	U
591-78-6	2-Hexanone	18	U
127-18-4	Tetrachloroethene	9	U
79-34-5	1,1,2,2-Tetrachloroethane	9	U
108-88-3	Toluene	9	U
108-90-7	Chlorobenzene	9	U
100-41-4	Ethylbenzene	9	U
100-42-5	Styrene	9	U
1330-20-7	Xylene (total)	9	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-10 5.5'-7

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) SOIL Lab Sample ID: 114817

Sample wt/vol: 3.1 (g/mL) G Lab File ID: C114817V

Level: (low/med) LOW Date Received: 05/16/90

% Moisture: not dec. 8 Date Analyzed: 05/22/90

Column: (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-10 20'-22

Lab Name:AQUATEC, INC. Contract:90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) SOIL Lab Sample ID: 114818

Sample wt/vol: 3.1 (g/mL) G Lab File ID: C114818V

Level: (low/med) LOW Date Received: 05/16/90

% Moisture: not dec. 9 Date Analyzed: 05/22/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	18	U
74-83-9	Bromomethane	18	U
75-01-4	Vinyl Chloride	18	U
75-00-3	Chloroethane	18	U
75-09-2	Methylene Chloride	7	BJ
67-64-1	Acetone	12	BJ
75-15-0	Carbon Disulfide	9	U
75-35-4	1,1-Dichloroethene	9	U
75-34-3	1,1-Dichloroethane	9	U
540-59-0	1,2-Dichloroethene (total)	9	U
67-66-3	Chloroform	9	U
107-06-2	1,2-Dichloroethane	9	U
78-93-3	2-Butanone	18	U
71-55-6	1,1,1-Trichloroethane	9	U
56-23-5	Carbon Tetrachloride	9	U
108-05-4	Vinyl Acetate	18	U
75-27-4	Bromodichloromethane	9	U
78-87-5	1,2-Dichloropropane	9	U
10061-01-5	cis-1,3-Dichloropropene	9	U
79-01-6	Trichloroethene	9	U
124-48-1	Dibromochloromethane	9	U
79-00-5	1,1,2-Trichloroethane	9	U
71-43-2	Benzene	9	U
10061-02-6	trans-1,3-Dichloropropene	9	U
75-25-2	Bromoform	9	U
108-10-1	4-Methyl-2-Pentanone	18	U
591-78-6	2-Hexanone	18	U
127-18-4	Tetrachloroethene	9	U
79-34-5	1,1,2,2-Tetrachloroethane	9	U
108-88-3	Toluene	9	U
108-90-7	Chlorobenzene	9	U
100-41-4	Ethylbenzene	9	U
100-42-5	Styrene	9	U
1330-20-7	Xylene (total)	9	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-10 20'-22

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) SOIL Lab Sample ID: 114818

Sample wt/vol: 3.1 (g/mL) G Lab File ID: C114818V

Level: (low/med) LOW Date Received: 05/16/90

% Moisture: not dec. 9 Date Analyzed: 05/22/90

Column: (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6,-4 05/15/9

Lab Name:AQUATEC, INC. Contract:90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) SOIL Lab Sample ID: 114819

Sample wt/vol: 3.1 (g/mL) G Lab File ID: C114819V

Level: (low/med) LOW Date Received: 05/16/90

% Moisture: not dec. 26 Date Analyzed: 05/22/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	22	U
74-83-9	Bromomethane	22	U
75-01-4	Vinyl Chloride	22	U
75-00-3	Chloroethane	22	U
75-09-2	Methylene Chloride	11	B
67-64-1	Acetone	130	B
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	J
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
108-05-4	Vinyl Acetate	22	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	22	U
591-78-6	2-Hexanone	22	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

6,-4 05/15/9

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) SOIL Lab Sample ID: 114819

Sample wt/vol: 3.1 (g/mL) G Lab File ID: C114819V

Level: (low/med) LOW Date Received: 05/16/90

% Moisture: not dec. 26 Date Analyzed: 05/22/90

Column: (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

7,-3 05/15/9

Lab Name:AQUATEC, INC. Contract:90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) SOIL Lab Sample ID: 114820

Sample wt/vol: 3.2 (g/mL) G Lab File ID: C114820I2V

Level: (low/med) LOW Date Received: 05/16/90

% Moisture: not dec. 23 Date Analyzed: 05/24/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	20	U
74-83-9	Bromomethane	20	U
75-01-4	Vinyl Chloride	20	U
75-00-3	Chloroethane	20	U
75-09-2	Methylene Chloride	6	BJ
67-64-1	Acetone	110	
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
108-05-4	Vinyl Acetate	20	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

7,-3 05/15/9

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) SOIL Lab Sample ID: 114820

Sample wt/vol: 3.2 (g/mL) G Lab File ID: C114820I2V

Level: (low/med) LOW Date Received: 05/16/90

% Moisture: not dec. 23 Date Analyzed: 05/24/90

Column: (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-11 5.5'-7

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) SOIL Lab Sample ID: 114821

Sample wt/vol: 3.1 (g/mL) G Lab File ID: C114821V

Level: (low/med) LOW Date Received: 05/16/90

% Moisture: not dec. 8 Date Analyzed: 05/22/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	18	U
74-83-9	Bromomethane	18	U
75-01-4	Vinyl Chloride	18	U
75-00-3	Chloroethane	18	U
75-09-2	Methylene Chloride	8	BJ
67-64-1	Acetone	18	U
75-15-0	Carbon Disulfide	9	U
75-35-4	1,1-Dichloroethene	9	U
75-34-3	1,1-Dichloroethane	9	U
540-59-0	1,2-Dichloroethene (total)	9	U
67-66-3	Chloroform	9	U
107-06-2	1,2-Dichloroethane	9	U
78-93-3	2-Butanone	18	U
71-55-6	1,1,1-Trichloroethane	9	U
56-23-5	Carbon Tetrachloride	9	U
108-05-4	Vinyl Acetate	18	U
75-27-4	Bromodichloromethane	9	U
78-87-5	1,2-Dichloropropane	9	U
10061-01-5	cis-1,3-Dichloropropene	9	U
79-01-6	Trichloroethene	9	U
124-48-1	Dibromochloromethane	9	U
79-00-5	1,1,2-Trichloroethane	9	U
71-43-2	Benzene	9	U
10061-02-6	trans-1,3-Dichloropropene	9	U
75-25-2	Bromoform	9	U
108-10-1	4-Methyl-2-Pentanone	18	U
591-78-6	2-Hexanone	18	U
127-18-4	Tetrachloroethene	9	U
79-34-5	1,1,2,2-Tetrachloroethane	9	U
108-88-3	Toluene	9	U
108-90-7	Chlorobenzene	9	U
100-41-4	Ethylbenzene	9	U
100-42-5	Styrene	9	U
1330-20-7	Xylene (total)	9	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-11 5.5'-7

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) SOIL Lab Sample ID: 114821

Sample wt/vol: 3.1 (g/mL) G Lab File ID: C114821V

Level: (low/med) LOW Date Received: 05/16/90

% Moisture: not dec. 8 Date Analyzed: 05/22/90

Column: (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-11 18'-20

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) SOIL Lab Sample ID: 114822

Sample wt/vol: 3.0 (g/mL) G Lab File ID: C114822V

Level: (low/med) LOW Date Received: 05/16/90

% Moisture: not dec. 7 Date Analyzed: 05/24/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	18	U
74-83-9	Bromomethane	18	U
75-01-4	Vinyl Chloride	18	U
75-00-3	Chloroethane	18	U
75-09-2	Methylene Chloride	4	BJ
67-64-1	Acetone	18	U
75-15-0	Carbon Disulfide	9	U
75-35-4	1,1-Dichloroethene	9	U
75-34-3	1,1-Dichloroethane	9	U
540-59-0	1,2-Dichloroethene (total)	9	U
67-66-3	Chloroform	9	U
107-06-2	1,2-Dichloroethane	9	U
78-93-3	2-Butanone	18	U
71-55-6	1,1,1-Trichloroethane	9	U
56-23-5	Carbon Tetrachloride	9	U
108-05-4	Vinyl Acetate	18	U
75-27-4	Bromodichloromethane	9	U
78-87-5	1,2-Dichloropropane	9	U
10061-01-5	cis-1,3-Dichloropropene	9	U
79-01-6	Trichloroethene	9	U
124-48-1	Dibromochloromethane	9	U
79-00-5	1,1,2-Trichloroethane	9	U
71-43-2	Benzene	9	U
10061-02-6	trans-1,3-Dichloropropene	9	U
75-25-2	Bromoform	9	U
108-10-1	4-Methyl-2-Pentanone	18	U
591-78-6	2-Hexanone	18	U
127-18-4	Tetrachloroethene	9	U
79-34-5	1,1,2,2-Tetrachloroethane	9	U
108-88-3	Toluene	9	U
108-90-7	Chlorobenzene	9	U
100-41-4	Ethylbenzene	9	U
100-42-5	Styrene	9	U
1330-20-7	Xylene (total)	9	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-11 18'-20

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) SOIL Lab Sample ID: 114822

Sample wt/vol: 3.0 (g/mL) G Lab File ID: C114822V

Level: (low/med) LOW Date Received: 05/16/90

% Moisture: not dec. 7 Date Analyzed: 05/24/90

Column: (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-12 5.5'-7

Lab Name:AQUATEC, INC. Contract:90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) SOIL Lab Sample ID: 114877

Sample wt/vol: 3.0 (g/mL) G Lab File ID: C114877V

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. 13 Date Analyzed: 05/24/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	19	U
74-83-9	Bromomethane	19	U
75-01-4	Vinyl Chloride	19	U
75-00-3	Chloroethane	19	U
75-09-2	Methylene Chloride	3	BJ
67-64-1	Acetone	19	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	19	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
108-05-4	Vinyl Acetate	19	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	19	U
591-78-6	2-Hexanone	19	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-9 5.5'-7

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) SOIL Lab Sample ID: 114815

Sample wt/vol: 3.1 (g/mL) G Lab File ID: C114815V

Level: (low/med) LOW Date Received: 05/16/90

% Moisture: not dec. 10 Date Analyzed: 05/18/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	18	U
74-83-9	Bromomethane	18	U
75-01-4	Vinyl Chloride	18	U
75-00-3	Chloroethane	18	U
75-09-2	Methylene Chloride	8	BJ
67-64-1	Acetone	8	BJ
75-15-0	Carbon Disulfide	9	U
75-35-4	1,1-Dichloroethene	9	U
75-34-3	1,1-Dichloroethane	9	U
540-59-0	1,2-Dichloroethene (total)	9	U
67-66-3	Chloroform	9	U
107-06-2	1,2-Dichloroethane	9	U
78-93-3	2-Butanone	18	U
71-55-6	1,1,1-Trichloroethane	9	U
56-23-5	Carbon Tetrachloride	9	U
108-05-4	Vinyl Acetate	18	U
75-27-4	Bromodichloromethane	9	U
78-87-5	1,2-Dichloropropane	9	U
10061-01-5	cis-1,3-Dichloropropene	9	U
79-01-6	Trichloroethene	9	U
124-48-1	Dibromochloromethane	9	U
79-00-5	1,1,2-Trichloroethane	9	U
71-43-2	Benzene	9	U
10061-02-6	trans-1,3-Dichloropropene	9	U
75-25-2	Bromoform	9	U
108-10-1	4-Methyl-2-Pentanone	18	U
591-78-6	2-Hexanone	18	U
127-18-4	Tetrachloroethene	9	U
79-34-5	1,1,2,2-Tetrachloroethane	9	U
108-88-3	Toluene	9	U
108-90-7	Chlorobenzene	9	U
100-41-4	Ethylbenzene	9	U
100-42-5	Styrene	9	U
1330-20-7	Xylene (total)	9	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-9 5.5'-7

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) SOIL Lab Sample ID: 114815

Sample wt/vol: 3.1 (g/mL) G Lab File ID: C114815V

Level: (low/med) LOW Date Received: 05/16/90

% Moisture: not dec. 10 Date Analyzed: 05/18/90

Column: (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-9 10'-12

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) SOIL Lab Sample ID: 114816

Sample wt/vol: 3.4 (g/mL) G Lab File ID: C114816V

Level: (low/med) LOW Date Received: 05/16/90

% Moisture: not dec. 8 Date Analyzed: 05/22/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	16	U
74-83-9	Bromomethane	16	U
75-01-4	Vinyl Chloride	16	U
75-00-3	Chloroethane	16	U
75-09-2	Methylene Chloride	10	B
67-64-1	Acetone	16	B
75-15-0	Carbon Disulfide	8	U
75-35-4	1,1-Dichloroethene	8	U
75-34-3	1,1-Dichloroethane	8	U
540-59-0	1,2-Dichloroethene (total)	8	U
67-66-3	Chloroform	8	U
107-06-2	1,2-Dichloroethane	8	U
78-93-3	2-Butanone	16	U
71-55-6	1,1,1-Trichloroethane	8	U
56-23-5	Carbon Tetrachloride	8	U
108-05-4	Vinyl Acetate	16	U
75-27-4	Bromodichloromethane	8	U
78-87-5	1,2-Dichloropropane	8	U
10061-01-5	cis-1,3-Dichloropropene	8	U
79-01-6	Trichloroethene	8	U
124-48-1	Dibromochloromethane	8	U
79-00-5	1,1,2-Trichloroethane	8	U
71-43-2	Benzene	8	U
10061-02-6	trans-1,3-Dichloropropene	8	U
75-25-2	Bromoform	8	U
108-10-1	4-Methyl-2-Pentanone	16	U
591-78-6	2-Hexanone	16	U
127-18-4	Tetrachloroethene	8	U
79-34-5	1,1,2,2-Tetrachloroethane	8	U
108-88-3	Toluene	8	U
108-90-7	Chlorobenzene	8	U
100-41-4	Ethylbenzene	8	U
100-42-5	Styrene	8	U
1330-20-7	Xylene (total)	8	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-9 10'-12

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) SOIL Lab Sample ID: 114816

Sample wt/vol: 3.4 (g/mL) G Lab File ID: C114816V

Level: (low/med) LOW Date Received: 05/16/90

% Moisture: not dec. 8 Date Analyzed: 05/22/90

Column: (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-12 5.5'-7

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) SOIL Lab Sample ID: 114877

Sample wt/vol: 3.0 (g/mL) G Lab File ID: C114877V

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. 13 Date Analyzed: 05/24/90

Column: (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-12 18'-20

Lab Name:AQUATEC, INC. Contract:90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) SOIL Lab Sample ID: 114878

Sample wt/vol: 3.0 (g/mL) G Lab File ID: C114878V

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. 8 Date Analyzed: 05/24/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	18	U
74-83-9	Bromomethane	18	U
75-01-4	Vinyl Chloride	18	U
75-00-3	Chloroethane	18	U
75-09-2	Methylene Chloride	3	BJ
67-64-1	Acetone	18	U
75-15-0	Carbon Disulfide	9	U
75-35-4	1,1-Dichloroethene	9	U
75-34-3	1,1-Dichloroethane	9	U
540-59-0	1,2-Dichloroethene (total)	9	U
67-66-3	Chloroform	9	U
107-06-2	1,2-Dichloroethane	9	U
78-93-3	2-Butanone	18	U
71-55-6	1,1,1-Trichloroethane	9	U
56-23-5	Carbon Tetrachloride	9	U
108-05-4	Vinyl Acetate	18	U
75-27-4	Bromodichloromethane	9	U
78-87-5	1,2-Dichloropropane	9	U
10061-01-5	cis-1,3-Dichloropropene	9	U
79-01-6	Trichloroethene	9	U
124-48-1	Dibromochloromethane	9	U
79-00-5	1,1,2-Trichloroethane	9	U
71-43-2	Benzene	9	U
10061-02-6	trans-1,3-Dichloropropene	9	U
75-25-2	Bromoform	9	U
108-10-1	4-Methyl-2-Pentanone	18	U
591-78-6	2-Hexanone	18	U
127-18-4	Tetrachloroethene	9	U
79-34-5	1,1,2,2-Tetrachloroethane	9	U
108-88-3	Toluene	9	U
108-90-7	Chlorobenzene	9	U
100-41-4	Ethylbenzene	9	U
100-42-5	Styrene	9	U
1330-20-7	Xylene (total)	9	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-12 18'-20

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) SOIL Lab Sample ID: 114878

Sample wt/vol: 3.0 (g/mL) G Lab File ID: C114878V

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. 8 Date Analyzed: 05/24/90

Column: (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-13 34-34

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) SOIL Lab Sample ID: 114879

Sample wt/vol: 3.2 (g/mL) G Lab File ID: C114879V

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. 10 Date Analyzed: 05/24/90

Column: (pack/cap) PACK Dilution Factor: 1.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	17	U
74-83-9	Bromomethane	17	U
75-01-4	Vinyl Chloride	17	U
75-00-3	Chloroethane	17	U
75-09-2	Methylene Chloride	3	BJ
67-64-1	Acetone	17	U
75-15-0	Carbon Disulfide	9	U
75-35-4	1,1-Dichloroethene	9	U
75-34-3	1,1-Dichloroethane	9	U
540-59-0	1,2-Dichloroethene (total)	9	U
67-66-3	Chloroform	9	U
107-06-2	1,2-Dichloroethane	9	U
78-93-3	2-Butanone	17	U
71-55-6	1,1,1-Trichloroethane	9	U
56-23-5	Carbon Tetrachloride	9	U
108-05-4	Vinyl Acetate	17	U
75-27-4	Bromodichloromethane	9	U
78-87-5	1,2-Dichloropropane	9	U
10061-01-5	cis-1,3-Dichloropropene	9	U
79-01-6	Trichloroethene	9	U
124-48-1	Dibromochloromethane	9	U
79-00-5	1,1,2-Trichloroethane	9	U
71-43-2	Benzene	9	U
10061-02-6	trans-1,3-Dichloropropene	9	U
75-25-2	Bromoform	9	U
108-10-1	4-Methyl-2-Pentanone	17	U
591-78-6	2-Hexanone	17	U
127-18-4	Tetrachloroethene	9	U
79-34-5	1,1,2,2-Tetrachloroethane	9	U
108-88-3	Toluene	9	U
108-90-7	Chlorobenzene	9	U
100-41-4	Ethylbenzene	9	U
100-42-5	Styrene	9	U
1330-20-7	Xylene (total)	9	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-13 34-34

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) SOIL Lab Sample ID: 114879

Sample wt/vol: 3.2 (g/mL) G Lab File ID: C114879V

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. 10 Date Analyzed: 05/24/90

Column: (pack/cap) PACK Dilution Factor: 1.5

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SEPTIC SLUDG

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) SOIL Lab Sample ID: 114880

Sample wt/vol: 4.2 (g/mL) G Lab File ID: C114880EV

Level: (low/med) MED Date Received: 05/17/90

% Moisture: not dec. 81 Date Analyzed: 05/24/90

Column: (pack/cap) PACK Dilution Factor: 4.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	4800	U
74-83-9	Bromomethane	4800	U
75-01-4	Vinyl Chloride	4800	U
75-00-3	Chloroethane	4800	U
75-09-2	Methylene Chloride	1400	BJ
67-64-1	Acetone	4800	U
75-15-0	Carbon Disulfide	2400	U
75-35-4	1,1-Dichloroethene	43000	
75-34-3	1,1-Dichloroethane	400000	E
540-59-0	1,2-Dichloroethene (total)	2400	U
67-66-3	Chloroform	2400	U
107-06-2	1,2-Dichloroethane	2400	U
78-93-3	2-Butanone	4800	U
71-55-6	1,1,1-Trichloroethane	3400000	E
56-23-5	Carbon Tetrachloride	2400	U
108-05-4	Vinyl Acetate	4800	U
75-27-4	Bromodichloromethane	2400	U
78-87-5	1,2-Dichloropropane	2400	U
10061-01-5	cis-1,3-Dichloropropene	2400	U
79-01-6	Trichloroethene	2400	U
124-48-1	Dibromochloromethane	2400	U
79-00-5	1,1,2-Trichloroethane	2400	U
71-43-2	Benzene	2400	U
10061-02-6	trans-1,3-Dichloropropene	2400	U
75-25-2	Bromoform	2400	U
108-10-1	4-Methyl-2-Pentanone	4800	U
591-78-6	2-Hexanone	4800	U
127-18-4	Tetrachloroethene	2400	U
79-34-5	1,1,2,2-Tetrachloroethane	2400	U
108-88-3	Toluene	48000	
108-90-7	Chlorobenzene	2400	U
100-41-4	Ethylbenzene	2400	U
100-42-5	Styrene	2400	U
1330-20-7	Xylene (total)	2400	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SEPTIC SLUDG

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) SOIL Lab Sample ID: 114880

Sample wt/vol: 4.2 (g/mL) G Lab File ID: C114880EV

Level: (low/med) MED Date Received: 05/17/90

% Moisture: not dec. 81 Date Analyzed: 05/24/90

Column: (pack/cap) PACK Dilution Factor: 4.0

Number TICs found: 3

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	1678-92-8	PROPYLCYCLOHEXANE	28.40	7200	J
2.		UNKNOWN CYCLIC HYDROCARBON	29.85	6600	J
3.		UNKNOWN DICHLOROBENZENE	33.15	510000	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SEPTIC SLUDG

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) SOIL Lab Sample ID: 114880D1

Sample wt/vol: 4.2 (g/mL) G Lab File ID: C114880E7V

Level: (low/med) MED Date Received: 05/17/90

% Moisture: not dec. 81 Date Analyzed: 05/30/90

Column: (pack/cap) PACK Dilution Factor: 285.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	340000	U
74-83-9	Bromomethane	340000	U
75-01-4	Vinyl Chloride	340000	U
75-00-3	Chloroethane	340000	U
75-09-2	Methylene Chloride	64000	BJD
67-64-1	Acetone	340000	U
75-15-0	Carbon Disulfide	170000	U
75-35-4	1,1-Dichloroethene	170000	U
75-34-3	1,1-Dichloroethane	250000	D
540-59-0	1,2-Dichloroethene (total)	170000	U
67-66-3	Chloroform	170000	U
107-06-2	1,2-Dichloroethane	170000	U
78-93-3	2-Butanone	340000	U
71-55-6	1,1,1-Trichloroethane	3700000	D
56-23-5	Carbon Tetrachloride	170000	U
108-05-4	Vinyl Acetate	340000	U
75-27-4	Bromodichloromethane	170000	U
78-87-5	1,2-Dichloropropane	170000	U
10061-01-5	cis-1,3-Dichloropropene	170000	U
79-01-6	Trichloroethene	170000	U
124-48-1	Dibromochloromethane	170000	U
79-00-5	1,1,2-Trichloroethane	170000	U
71-43-2	Benzene	170000	U
10061-02-6	trans-1,3-Dichloropropene	170000	U
75-25-2	Bromoform	170000	U
108-10-1	4-Methyl-2-Pentanone	340000	U
591-78-6	2-Hexanone	340000	U
127-18-4	Tetrachloroethene	170000	U
79-34-5	1,1,2,2-Tetrachloroethane	170000	U
108-88-3	Toluene	36000	JD
108-90-7	Chlorobenzene	170000	U
100-41-4	Ethylbenzene	170000	U
100-42-5	Styrene	170000	U
1330-20-7	Xylene (total)	170000	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SEPTIC SLUDG

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) SOIL Lab Sample ID: 114880D1

Sample wt/vol: 4.2 (g/mL) G Lab File ID: C114880E7V

Level: (low/med) MED Date Received: 05/17/90

% Moisture: not dec. 81 Date Analyzed: 05/30/90

Column: (pack/cap) PACK Dilution Factor: 285.7

Number TICs found: 1

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN DICHLOROBENZENE	33.25	250000	JD
2.					
3.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) WATER Lab Sample ID: 114944

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: C114944V

Level: (low/med) LOW Date Received: 05/18/90

% Moisture: not dec._____ Date Analyzed: 05/24/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	7	B
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIP BLANK

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) WATER Lab Sample ID: 114944

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: C114944V

Level: (low/med) LOW Date Received: 05/18/90

% Moisture: not dec._____ Date Analyzed: 05/24/90

Column: (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-12 18'-20

Lab Name:AQUATEC, INC. Contract:90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) SOIL Lab Sample ID: 114945

Sample wt/vol: 3.3 (g/mL) G Lab File ID: C114945V

Level: (low/med) LOW Date Received: 05/18/90

% Moisture: not dec. 9 Date Analyzed: 05/24/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	17	U
74-83-9	Bromomethane	17	U
75-01-4	Vinyl Chloride	17	U
75-00-3	Chloroethane	17	U
75-09-2	Methylene Chloride	3	BJ
67-64-1	Acetone	17	U
75-15-0	Carbon Disulfide	8	U
75-35-4	1,1-Dichloroethene	8	U
75-34-3	1,1-Dichloroethane	8	U
540-59-0	1,2-Dichloroethene (total)	8	U
67-66-3	Chloroform	8	U
107-06-2	1,2-Dichloroethane	8	U
78-93-3	2-Butanone	17	U
71-55-6	1,1,1-Trichloroethane	8	U
56-23-5	Carbon Tetrachloride	8	U
108-05-4	Vinyl Acetate	17	U
75-27-4	Bromodichloromethane	8	U
78-87-5	1,2-Dichloropropane	8	U
10061-01-5	cis-1,3-Dichloropropene	8	U
79-01-6	Trichloroethene	8	U
124-48-1	Dibromochloromethane	8	U
79-00-5	1,1,2-Trichloroethane	8	U
71-43-2	Benzene	8	U
10061-02-6	trans-1,3-Dichloropropene	8	U
75-25-2	Bromoform	8	U
108-10-1	4-Methyl-2-Pentanone	17	U
591-78-6	2-Hexanone	17	U
127-18-4	Tetrachloroethene	8	U
79-34-5	1,1,2,2-Tetrachloroethane	8	U
108-88-3	Toluene	8	U
108-90-7	Chlorobenzene	8	U
100-41-4	Ethylbenzene	8	U
100-42-5	Styrene	8	U
1330-20-7	Xylene (total)	8	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-12 18'-20

Lab Name:AQUATEC, INC. Contract:90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) SOIL Lab Sample ID: 114945

Sample wt/vol: 3.3 (g/mL) G Lab File ID: C114945V

Level: (low/med) LOW Date Received: 05/18/90

% Moisture: not dec. 9 Date Analyzed: 05/24/90

Column: (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKP1

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) WATER Lab Sample ID: CKQB001IV

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CKQB001IV

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: not dec._____ Date Analyzed: 05/18/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	8	J
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKP1

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) WATER Lab Sample ID: CKQB001IV

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CKQB001IV

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: not dec._____ Date Analyzed: 05/18/90

Column: (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKP2

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) SOIL Lab Sample ID: CKQB002IV

Sample wt/vol: 3.0 (g/mL) G Lab File ID: CKQB002IV

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: not dec. 0 Date Analyzed: 05/18/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	17	U
74-83-9	Bromomethane	17	U
75-01-4	Vinyl Chloride	17	U
75-00-3	Chloroethane	17	U
75-09-2	Methylene Chloride	5	J
67-64-1	Acetone	17	U
75-15-0	Carbon Disulfide	8	U
75-35-4	1,1-Dichloroethene	8	U
75-34-3	1,1-Dichloroethane	8	U
540-59-0	1,2-Dichloroethene (total)	8	U
67-66-3	Chloroform	8	U
107-06-2	1,2-Dichloroethane	8	U
78-93-3	2-Butanone	17	U
71-55-6	1,1,1-Trichloroethane	8	U
56-23-5	Carbon Tetrachloride	8	U
108-05-4	Vinyl Acetate	17	U
75-27-4	Bromodichloromethane	8	U
78-87-5	1,2-Dichloropropane	8	U
10061-01-5	cis-1,3-Dichloropropene	8	U
79-01-6	Trichloroethene	8	U
124-48-1	Dibromochloromethane	8	U
79-00-5	1,1,2-Trichloroethane	8	U
71-43-2	Benzene	8	U
10061-02-6	trans-1,3-Dichloropropene	8	U
75-25-2	Bromoform	8	U
108-10-1	4-Methyl-2-Pentanone	17	U
591-78-6	2-Hexanone	17	U
127-18-4	Tetrachloroethene	8	U
79-34-5	1,1,2,2-Tetrachloroethane	8	U
108-88-3	Toluene	8	U
108-90-7	Chlorobenzene	8	U
100-41-4	Ethylbenzene	8	U
100-42-5	Styrene	8	U
1330-20-7	Xylene (total)	8	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKP2

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) SOIL Lab Sample ID: CKQB002IV

Sample wt/vol: 3.0 (g/mL) G Lab File ID: CKQB002IV

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: not dec. 0 Date Analyzed: 05/18/90

Column: (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKQ1

Lab Name:AQUATEC, INC. Contract:90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) SOIL Lab Sample ID: CKTB001BV

Sample wt/vol: 3.2 (g/mL) G Lab File ID: CKTB001BV

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: not dec. 0 Date Analyzed: 05/22/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	16	U
74-83-9	Bromomethane	16	U
75-01-4	Vinyl Chloride	16	U
75-00-3	Chloroethane	16	U
75-09-2	Methylene Chloride	5	J
67-64-1	Acetone	6	J
75-15-0	Carbon Disulfide	8	U
75-35-4	1,1-Dichloroethene	8	U
75-34-3	1,1-Dichloroethane	8	U
540-59-0	1,2-Dichloroethene (total)	8	U
67-66-3	Chloroform	8	U
107-06-2	1,2-Dichloroethane	8	U
78-93-3	2-Butanone	16	U
71-55-6	1,1,1-Trichloroethane	8	U
56-23-5	Carbon Tetrachloride	8	U
108-05-4	Vinyl Acetate	16	U
75-27-4	Bromodichloromethane	8	U
78-87-5	1,2-Dichloropropane	8	U
10061-01-5	cis-1,3-Dichloropropene	8	U
79-01-6	Trichloroethene	8	U
124-48-1	Dibromochloromethane	8	U
79-00-5	1,1,2-Trichloroethane	8	U
71-43-2	Benzene	8	U
10061-02-6	trans-1,3-Dichloropropene	8	U
75-25-2	Bromoform	8	U
108-10-1	4-Methyl-2-Pentanone	16	U
591-78-6	2-Hexanone	16	U
127-18-4	Tetrachloroethene	8	U
79-34-5	1,1,2,2-Tetrachloroethane	8	U
108-88-3	Toluene	8	U
108-90-7	Chlorobenzene	8	U
100-41-4	Ethylbenzene	8	U
100-42-5	Styrene	8	U
1330-20-7	Xylene (total)	8	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKQ1

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) SOIL Lab Sample ID: CKTB001BV

Sample wt/vol: 3.2 (g/mL) G Lab File ID: CKTB001BV

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: not dec. 0 Date Analyzed: 05/22/90

Column: (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKQ3

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) SOIL Lab Sample ID: CKVB001AV

Sample wt/vol: 3.1 (g/mL) G Lab File ID: CKVB001AV

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: not dec. 0 Date Analyzed: 05/24/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	16	U
74-83-9	Bromomethane	16	U
75-01-4	Vinyl Chloride	16	U
75-00-3	Chloroethane	16	U
75-09-2	Methylene Chloride	4	J
67-64-1	Acetone	16	U
75-15-0	Carbon Disulfide	8	U
75-35-4	1,1-Dichloroethene	8	U
75-34-3	1,1-Dichloroethane	8	U
540-59-0	1,2-Dichloroethene (total)	8	U
67-66-3	Chloroform	8	U
107-06-2	1,2-Dichloroethane	8	U
78-93-3	2-Butanone	16	U
71-55-6	1,1,1-Trichloroethane	8	U
56-23-5	Carbon Tetrachloride	8	U
108-05-4	Vinyl Acetate	16	U
75-27-4	Bromodichloromethane	8	U
78-87-5	1,2-Dichloropropane	8	U
10061-01-5	cis-1,3-Dichloropropene	8	U
79-01-6	Trichloroethene	8	U
124-48-1	Dibromochloromethane	8	U
79-00-5	1,1,2-Trichloroethane	8	U
71-43-2	Benzene	8	U
10061-02-6	trans-1,3-Dichloropropene	8	U
75-25-2	Bromoform	8	U
108-10-1	4-Methyl-2-Pentanone	16	U
591-78-6	2-Hexanone	16	U
127-18-4	Tetrachloroethene	8	U
79-34-5	1,1,2,2-Tetrachloroethane	8	U
108-88-3	Toluene	8	U
108-90-7	Chlorobenzene	8	U
100-41-4	Ethylbenzene	8	U
100-42-5	Styrene	8	U
1330-20-7	Xylene (total)	8	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKQ3

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) SOIL Lab Sample ID: CKVB001AV

Sample wt/vol: 3.1 (g/mL) G Lab File ID: CKVB001AV

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: not dec. 0 Date Analyzed: 05/24/90

Column: (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKQ5

Lab Name:AQUATEC, INC. Contract:90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water)SOIL Lab Sample ID: CKVB001BV

Sample wt/vol: 4.0 (g/mL)G Lab File ID: CKVB001BV

Level: (low/med) MED Date Received: 00/00/00

% Moisture: not dec. 0 Date Analyzed: 05/24/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)UG/KG	Q
74-87-3	Chloromethane	1300	U
74-83-9	Bromomethane	1300	U
75-01-4	Vinyl Chloride	1300	U
75-00-3	Chloroethane	1300	U
75-09-2	Methylene Chloride	570	J
67-64-1	Acetone	1300	U
75-15-0	Carbon Disulfide	620	U
75-35-4	1,1-Dichloroethene	620	U
75-34-3	1,1-Dichloroethane	620	U
540-59-0	1,2-Dichloroethene (total)	620	U
67-66-3	Chloroform	620	U
107-06-2	1,2-Dichloroethane	620	U
78-93-3	2-Butanone	1300	U
71-55-6	1,1,1-Trichloroethane	620	U
56-23-5	Carbon Tetrachloride	620	U
108-05-4	Vinyl Acetate	1300	U
75-27-4	Bromodichloromethane	620	U
78-87-5	1,2-Dichloropropane	620	U
10061-01-5	cis-1,3-Dichloropropene	620	U
79-01-6	Trichloroethene	620	U
124-48-1	Dibromochloromethane	620	U
79-00-5	1,1,2-Trichloroethane	620	U
71-43-2	Benzene	620	U
10061-02-6	trans-1,3-Dichloropropene	620	U
75-25-2	Bromoform	620	U
108-10-1	4-Methyl-2-Pentanone	1300	U
591-78-6	2-Hexanone	1300	U
127-18-4	Tetrachloroethene	620	U
79-34-5	1,1,2,2-Tetrachloroethane	620	U
108-88-3	Toluene	620	U
108-90-7	Chlorobenzene	620	U
100-41-4	Ethylbenzene	620	U
100-42-5	Styrene	620	U
1330-20-7	Xylene (total)	620	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKQ5

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) SOIL Lab Sample ID: CKVB001BV

Sample wt/vol: 4.0 (g/mL) G Lab File ID: CKVB001BV

Level: (low/med) MED Date Received: 00/00/00

% Moisture: not dec. 0 Date Analyzed: 05/24/90

Column: (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKQ5

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) WATER Lab Sample ID: CKVB001BV

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CKVB001BV

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: not dec._____ Date Analyzed: 05/24/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKQ5

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) WATER Lab Sample ID: CKVB001BV

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CKVB001BV

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: not dec._____ Date Analyzed: 05/24/90

Column: (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKQ9

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) SOIL Lab Sample ID: CKWB002BV

Sample wt/vol: 4.0 (g/mL) G Lab File ID: CKWB002BV

Level: (low/med) MED Date Received: 00/00/00

% Moisture: not dec. 0 Date Analyzed: 05/30/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	1300	U
74-83-9	Bromomethane	1300	U
75-01-4	Vinyl Chloride	1300	U
75-00-3	Chloroethane	1300	U
75-09-2	Methylene Chloride	440	J
67-64-1	Acetone	1300	U
75-15-0	Carbon Disulfide	620	U
75-35-4	1,1-Dichloroethene	620	U
75-34-3	1,1-Dichloroethane	620	U
540-59-0	1,2-Dichloroethene (total)	620	U
67-66-3	Chloroform	620	U
107-06-2	1,2-Dichloroethane	620	U
78-93-3	2-Butanone	1300	U
71-55-6	1,1,1-Trichloroethane	620	U
56-23-5	Carbon Tetrachloride	620	U
108-05-4	Vinyl Acetate	1300	U
75-27-4	Bromodichloromethane	620	U
78-87-5	1,2-Dichloropropane	620	U
10061-01-5	cis-1,3-Dichloropropene	620	U
79-01-6	Trichloroethene	620	U
124-48-1	Dibromochloromethane	620	U
79-00-5	1,1,2-Trichloroethane	620	U
71-43-2	Benzene	620	U
10061-02-6	trans-1,3-Dichloropropene	620	U
75-25-2	Bromoform	620	U
108-10-1	4-Methyl-2-Pentanone	1300	U
591-78-6	2-Hexanone	1300	U
127-18-4	Tetrachloroethene	620	U
79-34-5	1,1,2,2-Tetrachloroethane	620	U
108-88-3	Toluene	620	U
108-90-7	Chlorobenzene	620	U
100-41-4	Ethylbenzene	620	U
100-42-5	Styrene	620	U
1330-20-7	Xylene (total)	620	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKQ9

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) SOIL Lab Sample ID: CKWB002BV

Sample wt/vol: 4.0 (g/mL) G Lab File ID: CKWB002BV

Level: (low/med) MED Date Received: 00/00/00

% Moisture: not dec. 0 Date Analyzed: 05/30/90

Column: (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VMBLK

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) WATER Lab Sample ID: CKVB002MSAV

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CKVB002MSAV

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: not dec._____ Date Analyzed: 05/24/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	BJ
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene		
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene		
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene		
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene		
108-90-7	Chlorobenzene		
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-10 20'-22

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) SOIL Lab Sample ID: 114818MS

Sample wt/vol: 3.1 (g/mL) G Lab File ID: C114818MSV

Level: (low/med) LOW Date Received: 05/16/90

% Moisture: not dec. 9 Date Analyzed: 05/22/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	18	U
74-83-9	Bromomethane	18	U
75-01-4	Vinyl Chloride	18	U
75-00-3	Chloroethane	18	U
75-09-2	Methylene Chloride	8	BJ
67-64-1	Acetone	13	BJ
75-15-0	Carbon Disulfide	9	U
75-35-4	1,1-Dichloroethene		
75-34-3	1,1-Dichloroethane	9	U
540-59-0	1,2-Dichloroethene (total)	9	U
67-66-3	Chloroform	9	U
107-06-2	1,2-Dichloroethane	9	U
78-93-3	2-Butanone	18	U
71-55-6	1,1,1-Trichloroethane	9	U
56-23-5	Carbon Tetrachloride	9	U
108-05-4	Vinyl Acetate	18	U
75-27-4	Bromodichloromethane	9	U
78-87-5	1,2-Dichloropropane	9	U
10061-01-5	cis-1,3-Dichloropropene	9	U
79-01-6	Trichloroethene		
124-48-1	Dibromochloromethane	9	U
79-00-5	1,1,2-Trichloroethane	9	U
71-43-2	Benzene		
10061-02-6	trans-1,3-Dichloropropene	9	U
75-25-2	Bromoform	9	U
108-10-1	4-Methyl-2-Pentanone	18	U
591-78-6	2-Hexanone	18	U
127-18-4	Tetrachloroethene	9	U
79-34-5	1,1,2,2-Tetrachloroethane	9	U
108-88-3	Toluene		
108-90-7	Chlorobenzene		
100-41-4	Ethylbenzene	9	U
100-42-5	Styrene	9	U
1330-20-7	Xylene (total)	9	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-10 20'-22

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix: (soil/water) SOIL Lab Sample ID: 114818MD

Sample wt/vol: 3.1 (g/mL) G Lab File ID: C114818MDI2

Level: (low/med) LOW Date Received: 05/16/90

% Moisture: not dec. 9 Date Analyzed: 05/24/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	18	U
74-83-9	Bromomethane	18	U
75-01-4	Vinyl Chloride	18	U
75-00-3	Chloroethane	18	U
75-09-2	Methylene Chloride	6	BJ
67-64-1	Acetone	11	J
75-15-0	Carbon Disulfide	9	U
75-35-4	1,1-Dichloroethene		
75-34-3	1,1-Dichloroethane	9	U
540-59-0	1,2-Dichloroethene (total)	9	U
67-66-3	Chloroform	9	U
107-06-2	1,2-Dichloroethane	9	U
78-93-3	2-Butanone	18	U
71-55-6	1,1,1-Trichloroethane	9	U
56-23-5	Carbon Tetrachloride	9	U
108-05-4	Vinyl Acetate	18	U
75-27-4	Bromodichloromethane	9	U
78-87-5	1,2-Dichloropropane	9	U
10061-01-5	cis-1,3-Dichloropropene	9	U
79-01-6	Trichloroethene		
124-48-1	Dibromochloromethane	9	U
79-00-5	1,1,2-Trichloroethane	9	U
71-43-2	Benzene		
10061-02-6	trans-1,3-Dichloropropene	9	U
75-25-2	Bromoform	9	U
108-10-1	4-Methyl-2-Pentanone	18	U
591-78-6	2-Hexanone	18	U
127-18-4	Tetrachloroethene	9	U
79-34-5	1,1,2,2-Tetrachloroethane	9	U
108-88-3	Toluene		
108-90-7	Chlorobenzene		
100-41-4	Ethylbenzene	9	U
100-42-5	Styrene	9	U
1330-20-7	Xylene (total)	9	U

QC SUMMARY

aquatec
ENVIRONMENTAL SERVICES
75 Green Mountain Drive, So. Burlington, VT 05403
TEL. 802/658-1074

2A
WATER VOLATILE SURROGATE RECOVERY

Lab Name:AQUATEC, INC. Contract:90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

	EPA SAMPLE NO.	S1 (TOL) #	S2 (BFB) #	S3 (DCE) #	OTHER	TOT OUT
01	VBLKQ5	107 _	105 _	102 _		0
02	TRIP BLANK	103 _	102 _	102 _		0
03	VBLKP1	110 _	109 _	103 _		0
04	TRIP BLANK	109 _	108 _	107 _		0
05						
06						
07						
08						
09						
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11						
12						
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29						
30						

	QC LIMITS
S1 (TOL) = Toluene-d8	(88-110)
S2 (BFB) = Bromofluorobenzene	(86-115)
S3 (DCE) = 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

2B

SOIL VOLATILE SURROGATE RECOVERY

Lab Name:AQUATEC, INC. Contract:90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (TOL) #	S2 (BFB) #	S3 (DCE) #	OTHER	TOT OUT
01	VBLKQ3	95 _	98 _	98 _		0
02	7,-3 05/15/9	105 _	94 _	100 _		0
03	MW-10 20'-22	111 _	100 _	109 _		0
04	MW-11 18'-20	105 _	92 _	99 _		0
05	VMBLK	101 _	98 _	103 _		0
06	MW-12 5.5'-7	107 _	104 _	106 _		0
07	MW-12 18'-20	110 _	93 _	106 _		0
08	MW-13 34-34	117 _	89 _	110 _		0
09	MW-12 18'-20	107 _	93 _	104 _		0
10	VBLKQ1	105 _	99 _	100 _		0
11	MW-9 10'-12	100 _	94 _	95 _		0
12	MW-10 5.5'-7	99 _	99 _	91 _		0
13	6,-4 05/15/9	95 _	111 _	94 _		0
14	MW-11 5.5'-7	96 _	94 _	91 _		0
15	MW-10 20'-22	104 _	93 _	94 _		0
16	MW-10 20'-22	102 _	86 _	93 _		0
17	VBLKP2	106 _	104 _	104 _		0
18	MW-9 5.5'-7	105 _	103 _	111 _		0
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

	QC LIMITS
S1 (TOL) = Toluene-d8	(81-117)
S2 (BFB) = Bromofluorobenzene	(74-121)
S3 (DCE) = 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

2B

SOIL VOLATILE SURROGATE RECOVERY

Lab Name:AQUATEC, INC. Contract:90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Level:(low/med) MED

	EPA SAMPLE NO.	S1 (TOL) #	S2 (BFB) #	S3 (DCE) #	OTHER	TOT OUT
01	VBLKQ9	98	95	98		0
02	SEPTIC SLUDG	0 D	0 D	0 D		0
03	VBLKQ5	107	105	102		0
04	SEPTIC SLUDG	92	107	93		0
05						
06						
07						
08						
09						
10						
11						
12						
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28						
29						
30						

	QC LIMITS
S1 (TOL) = Toluene-d8	(81-117)
S2 (BFB) = Bromofluorobenzene	(74-121)
S3 (DCE) = 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:AQUATEC, INC. Contract:90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Matrix Spike - EPA Sample No.: CKVB002MSAV Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50	0	72	144	59-172
Trichloroethene	50	0	56	111	62-137
Benzene	50	0	55	111	66-142
Toluene	50	0	55	109	59-139
Chlorobenzene	50	0	53	106	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene					22	59-172
Trichloroethene					24	62-137
Benzene					21	66-142
Toluene					21	59-139
Chlorobenzene					21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD:_____ out of _____ outside limits
Spike Recovery: 0 out of 5 outside limits

COMMENTS: _____

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Lab File ID: CKQB001IV Lab Sample ID: CKQB001IV

Date Analyzed: 05/18/90 Time Analyzed: 0950

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

Instrument ID: OWAC

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	TRIP BLANK	114814	C114814V	1137
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
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COMMENTS: _____

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Lab File ID: CKQB002IV Lab Sample ID: CKQB002IV

Date Analyzed: 05/18/90 Time Analyzed: 1045

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

Instrument ID: OWAC

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	MW-9 5.5'-7	114815	C114815V	1228
02				
03				
04				
05				
06				
07				
08				
09				
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11				
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29				
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COMMENTS: _____

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Lab File ID: CKVB001AV Lab Sample ID: CKVB001AV

Date Analyzed: 05/24/90 Time Analyzed: 0601

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

Instrument ID: OWAC

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	7,-3 05/15/9	114820	C114820I2V	0703
02	MW-10 20'-22	114818MD	C114818MDI2	0800
03	MW-11 18'-20	114822	C114822V	0852
04	VMBLK	CKVB002MSAV	CKVB002MSAV	0947
05	MW-12 5.5'-7	114877	C114877V	1045
06	MW-12 18'-20	114878	C114878V	1134
07	MW-13 34-34	114879	C114879V	1238
08	MW-12 18'-20	114945	C114945V	1333
09				
10				
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COMMENTS: _____

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Lab File ID: CKVB001BV Lab Sample ID: CKVB001BV

Date Analyzed: 05/24/90 Time Analyzed: 1956

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

Instrument ID: OWAC

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	SEPTIC SLUDG	114880	C114880EV	2243
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
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29				
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COMMENTS: _____

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Lab File ID: CKVB001BV Lab Sample ID: CKVB001BV

Date Analyzed: 05/24/90 Time Analyzed: 1956

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

Instrument ID: OWAC

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	TRIP BLANK	114944	C114944V	2054
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
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COMMENTS: _____

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Lab File ID: CKWB002BV Lab Sample ID: CKWB002BV

Date Analyzed: 05/30/90 Time Analyzed: 1053

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

Instrument ID: OWAC

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	SEPTIC SLUDG	114880D1	C114880E7V	1336
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
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29				
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COMMENTS: _____

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Lab File ID: CKP037PV BFB Injection Date: 05/15/90

Instrument ID: OWAC BFB Injection Time: 0922

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) PACK

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	26.3 _____
75	30.0 - 60.0% of mass 95	57.2 _____
95	Base peak, 100% relative abundance	100.0 _____
96	5.0 - 9.0% of mass 95	7.5 _____
173	Less than 2.0% of mass 174	.0 (.0)1
174	Greater than 50.0% of mass 95	73.3 _____
175	5.0 - 9.0% of mass 174	5.5 (7.5)1
176	Greater than 95.0%, but less than 101.0% of mass 174	72.8 (99.2)1
177	5.0 - 9.0% of mass 176	5.7 (7.8)2

1-Value is % mass 174 2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD200	_____	CKQ200HV	05/15/90	1258
02	VSTD150	_____	CKQ150HV	05/15/90	1352
03	VSTD020	_____	CKQ020HV	05/15/90	1444
04	VSTD100	_____	CKQ100HV	05/15/90	1538
05	VSTD050	_____	CKQ050HV	05/15/90	1628
06	_____	_____	_____	_____	_____
07	_____	_____	_____	_____	_____
08	_____	_____	_____	_____	_____
09	_____	_____	_____	_____	_____
10	_____	_____	_____	_____	_____
11	_____	_____	_____	_____	_____
12	_____	_____	_____	_____	_____
13	_____	_____	_____	_____	_____
14	_____	_____	_____	_____	_____
15	_____	_____	_____	_____	_____
16	_____	_____	_____	_____	_____
17	_____	_____	_____	_____	_____
18	_____	_____	_____	_____	_____
19	_____	_____	_____	_____	_____
20	_____	_____	_____	_____	_____
21	_____	_____	_____	_____	_____
22	_____	_____	_____	_____	_____

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Lab File ID: CKQ015PV BFB Injection Date: 05/18/90

Instrument ID: OWAC BFB Injection Time: 0722

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) PACK

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	28.8 _____
75	30.0 - 60.0% of mass 95	58.8 _____
95	Base peak, 100% relative abundance	100.0 _____
96	5.0 - 9.0% of mass 95	8.0 _____
173	Less than 2.0% of mass 174	.0 (.0)1
174	Greater than 50.0% of mass 95	79.9 _____
175	5.0 - 9.0% of mass 174	5.3 (6.6)1
176	Greater than 95.0%, but less than 101.0% of mass 174	76.7 (95.9)1
177	5.0 - 9.0% of mass 176	5.3 (7.0)2

1-Value is % mass 174 2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050		CKQ050IHV	05/18/90	0840
02	VBLKP1	CKQB001IV	CKQB001IV	05/18/90	0950
03	VBLKP2	CKQB002IV	CKQB002IV	05/18/90	1045
04	TRIP BLANK	114814	C114814V	05/18/90	1137
05	MW-9 5.5'-7	114815	C114815V	05/18/90	1228
06					
07					
08					
09					
10					
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12					
13					
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20					
21					
22					

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Lab File ID: CKS010PV BFB Injection Date: 05/21/90

Instrument ID: OWAC BFB Injection Time: 1039

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) PACK

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	25.3
75	30.0 - 60.0% of mass 95	57.5
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	.0 (.0)1
174	Greater than 50.0% of mass 95	78.3
175	5.0 - 9.0% of mass 174	4.9 (6.3)1
176	Greater than 95.0%, but less than 101.0% of mass 174	76.7 (98.0)1
177	5.0 - 9.0% of mass 176	6.1 (7.9)2

1-Value is % mass 174 2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050		CKQ050LHV	05/21/90	1108
02	VSTD150		CKT150HV	05/21/90	1313
03	VSTD020		CKT020HV	05/21/90	1404
04	VSTD100		CKT100HV	05/21/90	1501
05	VSTD200		CKT200HI2V	05/21/90	1630
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Lab File ID: CKT002PV BFB Injection Date: 05/22/90

Instrument ID: OWAC BFB Injection Time: 0603

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) PACK

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	27.6
75	30.0 - 60.0% of mass 95	58.4
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	.0 (.0)1
174	Greater than 50.0% of mass 95	75.6
175	5.0 - 9.0% of mass 174	5.8 (7.6)1
176	Greater than 95.0%, but less than 101.0% of mass 174	74.4 (98.4)1
177	5.0 - 9.0% of mass 176	4.7 (6.3)2

1-Value is % mass 174 2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050		CKT050BHV	05/22/90	0626
02	VBLKQ1	CKTB001BV	CKTB001BV	05/22/90	0827
03	MW-9 10'-12	114816	C114816V	05/22/90	0957
04	MW-10 5.5'-7	114817	C114817V	05/22/90	1113
05	6,-4 05/15/9	114819	C114819V	05/22/90	1209
06	MW-11 5.5'-7	114821	C114821V	05/22/90	1431
07	MW-10 20'-22	114818	C114818V	05/22/90	1546
08	MW-10 20'-22	114818MS	C114818MSV	05/22/90	1651
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Lab File ID: CKU006PV BFB Injection Date: 05/23/90

Instrument ID: OWAC BFB Injection Time: 2132

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) PACK

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	28.5 _____
75	30.0 - 60.0% of mass 95	57.6 _____
95	Base peak, 100% relative abundance	100.0 _____
96	5.0 - 9.0% of mass 95	7.1 _____
173	Less than 2.0% of mass 174	.0 (.0)1
174	Greater than 50.0% of mass 95	93.3 _____
175	5.0 - 9.0% of mass 174	5.2 (5.5)1
176	Greater than 95.0%, but less than 101.0% of mass 174	91.1 (97.7)1
177	5.0 - 9.0% of mass 176	4.9 (5.4)2

1-Value is % mass 174 2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD020		CKV020HV	05/23/90	2238
02	VSTD100		CKV100HV	05/23/90	2336
03	VSTD150		CKV150HV	05/24/90	0023
04	VSTD050		CKV050HV	05/24/90	0112
05	VSTD200		CKV200HI2V	05/24/90	0235
06					
07					
08					
09					
10					
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16					
17					
18					
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20					
21					
22					

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name:AQUATEC, INC. Contract:90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Lab File ID: CKV001PV BFB Injection Date: 05/24/90

Instrument ID: OWAC BFB Injection Time: 0421

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) PACK

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	28.2
75	30.0 - 60.0% of mass 95	57.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	.0 (.0)1
174	Greater than 50.0% of mass 95	80.6
175	5.0 - 9.0% of mass 174	4.5 (5.6)1
176	Greater than 95.0%, but less than 101.0% of mass 174	79.1 (98.1)1
177	5.0 - 9.0% of mass 176	4.1 (5.2)2

1-Value is % mass 174 2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050		CKV050AHV	05/24/90	0451
02	VBLKQ3	CKVB001AV	CKVB001AV	05/24/90	0601
03	7,-3 05/15/9	114820	C114820I2V	05/24/90	0703
04	MW-10 20'-22	114818MD	C114818MDI2	05/24/90	0800
05	MW-11 18'-20	114822	C114822V	05/24/90	0852
06	VMBLK	CKVB002MSAV	CKVB002MSAV	05/24/90	0947
07	MW-12 5.5'-7	114877	C114877V	05/24/90	1045
08	MW-12 18'-20	114878	C114878V	05/24/90	1134
09	MW-13 34-34	114879	C114879V	05/24/90	1238
10	MW-12 18'-20	114945	C114945V	05/24/90	1333
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name:AQUATEC, INC. Contract:90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Lab File ID: CKV007PV BFB Injection Date: 05/24/90

Instrument ID: OWAC BFB Injection Time: 1819

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) PACK

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	27.2
75	30.0 - 60.0% of mass 95	56.4
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.5
173	Less than 2.0% of mass 174	.0 (.0)1
174	Greater than 50.0% of mass 95	92.0
175	5.0 - 9.0% of mass 174	6.4 (7.0)1
176	Greater than 95.0%, but less than 101.0% of mass 174	89.9 (97.7)1
177	5.0 - 9.0% of mass 176	5.4 (6.0)2

1-Value is % mass 174 2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050		CKV050BHV	05/24/90	1852
02	VBLKQ5	CKVB001BV	CKVB001BV	05/24/90	1956
03	TRIP BLANK	114944	C114944V	05/24/90	2054
04	SEPTIC SLUDG	114880	C114880EV	05/24/90	2243
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: AQUATEC, INC. Contract: 90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Lab File ID: CKV017PV BFB Injection Date: 05/29/90

Instrument ID: OWAC BFB Injection Time: 0712

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) PACK

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.1
75	30.0 - 60.0% of mass 95	51.5
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.7
173	Less than 2.0% of mass 174	.0 (.0)1
174	Greater than 50.0% of mass 95	75.8
175	5.0 - 9.0% of mass 174	5.0 (6.6)1
176	Greater than 95.0%, but less than 101.0% of mass 174	74.6 (98.4)1
177	5.0 - 9.0% of mass 176	4.6 (6.2)2

1-Value is % mass 174 2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050		CKV050FHV	05/29/90	1113
02	VSTD200		CKW200HV	05/29/90	1232
03	VSTD150		CKW150HV	05/29/90	1338
04	VSTD100		CKW100HV	05/29/90	1441
05	VSTD020		CKW020HV	05/29/90	1539
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name:AQUATEC, INC. Contract:90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Lab File ID: CKW019PV BFB Injection Date: 05/30/90

Instrument ID: OWAC BFB Injection Time: 0743

Matrix:(soil/water) SOIL Level:(low/med) MED Column:(pack/cap) PACK

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.8
75	30.0 - 60.0% of mass 95	49.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.4
173	Less than 2.0% of mass 174	.0 (.0)1
174	Greater than 50.0% of mass 95	77.3
175	5.0 - 9.0% of mass 174	5.4 (7.0)1
176	Greater than 95.0%, but less than 101.0% of mass 174	74.6 (96.6)1
177	5.0 - 9.0% of mass 176	5.3 (7.1)2

1-Value is % mass 174 2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050		CKW050BHV	05/30/90	0841
02	VBLKQ9	CKWB002BV	CKWB002BV	05/30/90	1053
03	SEPTIC SLUDG	114880D1	C114880E7V	05/30/90	1336
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

VOLATILE ORGANIC ANALYSIS

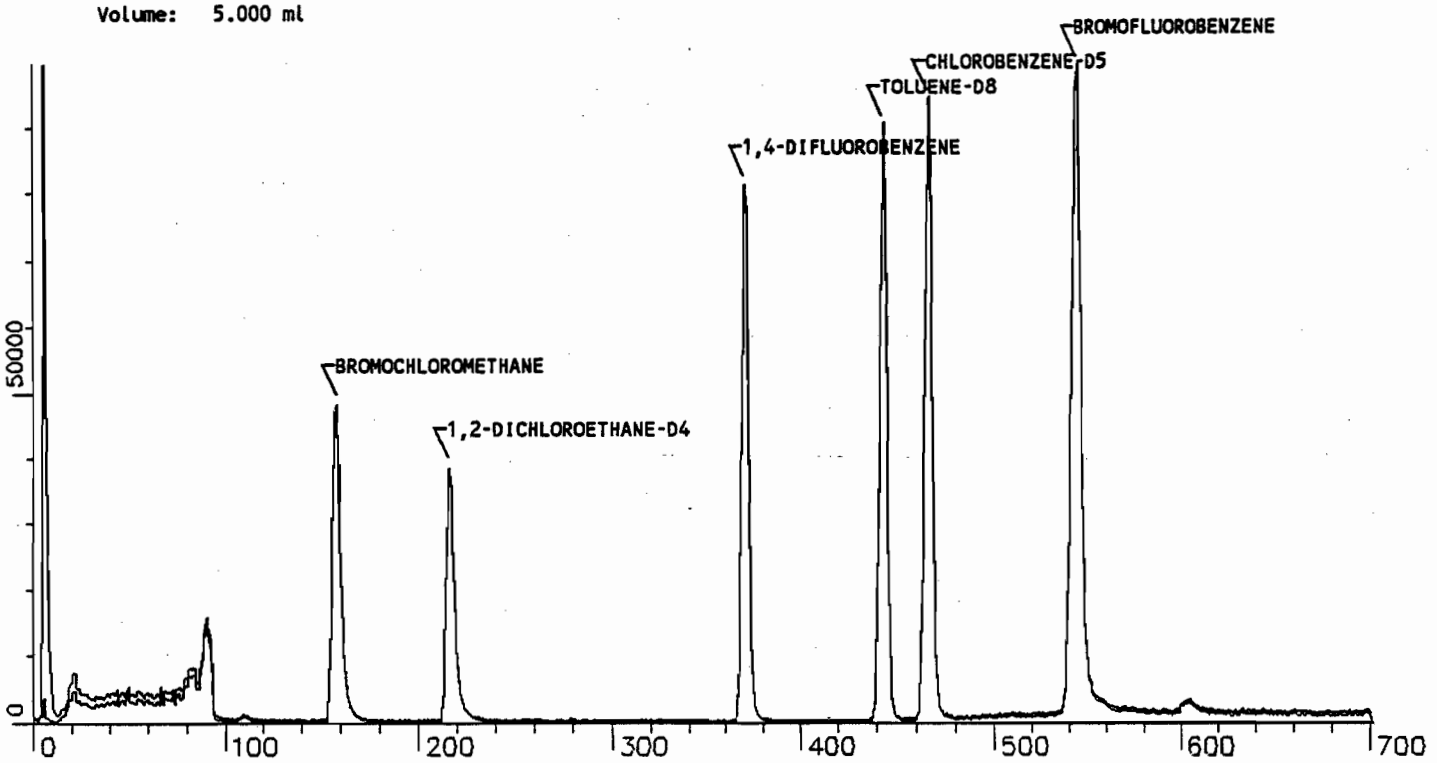
SUPPORTIVE DOCUMENTATION

aquatec
ENVIRONMENTAL SERVICES
75 Green Mountain Drive, So. Burlington, VT 05403
TEL. 802/658-1074

C114814V 1

Sample: L#114814 CLI#TRIP BLANK ETR#21422 100%
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: WATER Lab ID: 114814 Client ID: TRIP ETR Number: 21422 Submitted by: ADIENV
Volume: 5.000 ml

05/18/90 1137
OWAC -- SPS



No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
1	128	158	7:54	1	1.000	A BB	26420.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	370	18:30	13	1.000	A BB	120521	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	466	23:18	36	1.000	A BB	101684	50.000 PPB		36	CHLOROBENZENE-D5
19	65	216	10:48	1	1.367	A BB	62873.	53.317 PPB	106.6	19	1,2-DICHLOROETHANE-D4
42	98	443	22:09	36	0.951	A BB	125270.	54.419 PPB	108.8	42	TOLUENE-D8
46	95	544	27:12	36	1.167	A BB	85308.	54.192 PPB	108.4	46	BROMOFLUOROBENZENE

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
1	8:00	6	1.000	1.00	50.00	50.00	1.000	1.000	1.00	1	BROMOCHLOROMETHANE
13	18:36	6	1.000	1.00	50.00	50.00	1.000	1.000	1.00	13	1,4-DIFLUOROBENZENE
36	23:21	3	1.000	1.00	50.00	50.00	1.000	1.000	1.00	36	CHLOROBENZENE-D5
19	10:54	6	1.362	1.00	53.32	50.00	2.380	2.232	1.07	19	1,2-DICHLOROETHANE-D4
42	22:15	6	0.953	1.00	54.42	50.00	1.232	1.132	1.09	42	TOLUENE-D8
46	27:15	3	1.167	1.00	54.19	50.00	0.839	0.774	1.08	46	BROMOFLUOROBENZENE

CKQ050IHV (05/18/90 8:40) RFs loaded on OWAC 5/18/90 9:39:20

C114814V 2

Sample: L#114814 CLI#TRIP BLANK ETR#21422 100%
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: WATER Lab ID: 114814 Client ID: TRIP ETR Number: 21422 Submitted by: ADIENV
Volume: 5.000 ml

05/18/90 1137
OWAC -- SPS

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
2	50	28	1:00	1	0.127	A BB	232.	0.301 PPB		2	CHLOROMETHANE
3	94	39	1:57	1	0.247	A BB	88.	0.120 PPB		3	BROMOMETHANE
4	NOT FOUND									4	VINYL CHLORIDE
5	NOT FOUND									5	CHLOROETHANE
6	84	90	4:30	1	0.570	A BB	5603.	6.721 PPB		6	METHYLENE CHLORIDE
7	43	109	5:27	1	0.690	A BB	2688.	7.027 PPB		7	ACETONE
8	NOT FOUND									8	ACROLEIN
9	NOT FOUND									9	ACRYLONITRILE
10	NOT FOUND									10	CARBON DISULFIDE
11	NOT FOUND									11	TRICHLOROFLUOROMETHANE
12	NOT FOUND									12	1,1-DICHLOROETHENE
14	NOT FOUND									14	1,1-DICHLOROETHANE
15	NOT FOUND									15	TETRAHYDROFURAN
16	NOT FOUND									16	1,2-DICHLOROETHENE (TOTAL)
17	NOT FOUND									17	CHLOROFORM
18	NOT FOUND									18	1,2-DICHLOROETHANE
20	NOT FOUND									20	2-BUTANONE
21	NOT FOUND									21	FREON TF
22	NOT FOUND									22	1,1,1-TRICHLOROETHANE
23	NOT FOUND									23	CARBON TETRACHLORIDE
24	NOT FOUND									24	VINYL ACETATE
25	NOT FOUND									25	BROMODICHLOROMETHANE
26	NOT FOUND									26	1,2-DICHLOROPROPANE
27	NOT FOUND									27	CIS-1,3-DICHLOROPROPENE
28	NOT FOUND									28	TRICHLOROETHENE
29	NOT FOUND									29	DIBROMOCHLOROMETHANE
30	NOT FOUND									30	METHYLCYCLOHEXANE
31	NOT FOUND									31	1,1,2-TRICHLOROETHANE
32	NOT FOUND									32	BENZENE
33	NOT FOUND									33	TRANS-1,3-DICHLOROPROPENE
34	NOT FOUND									34	2-CHLOROETHYLVINYLETHER
35	NOT FOUND									35	BROMOFORM
37	NOT FOUND									37	4-METHYL-2-PENTANONE
38	43	415	20:45	36	0.891	A BB	123.	0.094 PPB		38	2-HEXANONE
39	83	416	20:48	36	0.893	A BB	79.	0.040 PPB		39	1,1,2,2-TETRACHLOROETHANE
40	NOT FOUND									40	TETRACHLOROETHENE
41	NOT FOUND									41	BUTYL ACETATE
43	NOT FOUND									43	TOLUENE
44	NOT FOUND									44	CHLOROBENZENE
45	NOT FOUND									45	ETHYLBENZENE
47	NOT FOUND									47	STYRENE
48	NOT FOUND									48	M-XYLENE
49	NOT FOUND									49	O- & P-XYLENE
50	NOT FOUND									50	O-DICHLOROBENZENE
51	NOT FOUND									51	CYCLOPENTANE
52	NOT FOUND									52	XYLENE (TOTAL)
53	NOT FOUND									53	2-PROPANOL

C114814V 3

Sample: L#114814 CLI#TRIP BLANK ETR#21422 100%
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: WATER Lab ID: 114814 Client ID: TRIP ETR Number: 21422 Submitted by: ADIENV
Volume: 5.000 ml

05/18/90 1137
OWAC -- SPS

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	0:57	3	0.119	1.07	0.30	55.00	0.008	1.458	0.01	2	CHLOROMETHANE
3	1:36	21	0.200	1.23	0.12	55.00	0.003	1.393	0.00	3	BROMOMETHANE
4	2:03		0.256							4	VINYL CHLORIDE
5	2:48		0.350							5	CHLOROETHANE
6	4:33	3	0.569	1.00	6.72	50.00	0.212	1.578	0.13	6	METHYLENE CHLORIDE
7	5:33	6	0.694	0.99	7.03	50.00	0.102	0.724	0.14	7	ACETONE
8	5:39		0.706							8	ACROLEIN
9	6:18		0.788							9	ACRYLONITRILE
10	6:15		0.781							10	CARBON DISULFIDE
11	6:48		0.850							11	TRICHLOROFLUOROMETHANE
12	7:36		0.950							12	1,1-DICHLOROETHENE
14	8:51		1.106							14	1,1-DICHLOROETHANE
15	9:03		1.131							15	TETRAHYDROFURAN
16	9:42		1.212							16	1,2-DICHLOROETHENE (TOTAL)
17	10:09		1.269							17	CHLOROFORM
18	11:00		1.375							18	1,2-DICHLOROETHANE
20	11:12		1.400							20	2-BUTANONE
21	10:30		0.565							21	FREON TF
22	12:06		0.651							22	1,1,1-TRICHLOROETHANE
23	12:30		0.672							23	CARBON TETRACHLORIDE
24	13:06		0.704							24	VINYL ACETATE
25	13:09		0.707							25	BROMODICHLOROMETHANE
26	14:33		0.782							26	1,2-DICHLOROPROPANE
27	14:54		0.801							27	CIS-1,3-DICHLOROPROPENE
28	15:27		0.831							28	TRICHLOROETHENE
29	15:54		0.855							29	DIBROMOCHLOROMETHANE
30	18:15		0.981							30	METHYLCYCLOHEXANE
31	16:03		0.863							31	1,1,2-TRICHLOROETHANE
32	16:03		0.863							32	BENZENE
33	16:09		0.868							33	TRANS-1,3-DICHLOROPROPENE
34	17:15		0.927							34	2-CHLOROETHYLVINYLETHER
35	18:30		0.995							35	BROMOFORM
37	19:12		0.822							37	4-METHYL-2-PENTANONE
38	20:48	3	0.891	1.00	0.09	50.00	0.001	0.645	0.00	38	2-HEXANONE
39	20:48	0	0.891	1.00	0.04	50.00	0.001	0.964	0.00	39	1,1,2,2-TETRACHLOROETHANE
40	21:03		0.901							40	TETRACHLOROETHENE
41	21:54		0.938							41	BUTYL ACETATE
43	22:27		0.961							43	TOLUENE
44	23:30		1.006							44	CHLOROBENZENE
45	25:21		1.086							45	ETHYLBENZENE
47	28:30		1.221							47	STYRENE
48	28:48		1.233							48	M-XYLENE
49	29:27		1.261							49	O- & P-XYLENE
50	32:45		1.403							50	O-DICHLOROBENZENE
51	8:03		1.006							51	CYCLOPENTANE
52	28:48		1.233							52	XYLENE (TOTAL)
53	7:03		0.881							53	2-PROPANOL

C114814V$_{14}$

Sample: L#114814 CLI#TRIP BLANK ETR#21422 100%
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: WATER Lab ID: 114814 Client ID: TRIP ETR Number: 21422 Submitted by: ADIENV
Volume: 5.000 ml

05/18/90 1137
OWAC -- SPS

Summary of Tentatively Identified Compounds

Rank	Scan	Dec. Time	En.RIC Height	Est. Amount	Ref	Name
~~1~~	~~6~~	~~0.30~~	~~75263.~~	~~94.7~~	~~1~~	~~UNKNOWN~~ CO_2
ISTD	158	7.90	39744.	50.0	1	BROMOCHLOROMETHANE
ISTD	370	18.50	53888.	50.0	13	1,4-DIFLUOROBENZENE
ISTD	466	23.30	70192.	50.0	36	CHLOROBENZENE-D5

Ø TIC's for reporting
Cip

PROCEDURE: TCA DIAGNOSTIC REPORT 5/18/90 12:12:44
DATA FILE: C114814V
REFERENCE: JTAB11
NAME LIST: UM INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: UMRET1

STANDARDS PROC	STANDARDS USED	STANDARDS POSS	STANDARDS RMS	PLUS UNKNOWNS PROC	PLUS UNKNOWNS USED	PLUS UNKNOWNS POSS	PLUS UNKNOWNS RMS	LIST NAMES STANDARD/UNKNOWN
1	1	1	0	13	4	1	793	UMRET1/UMUNK1
2	2	1	0	14	3	1	22	UMRET2/UMUNK2
2	2	1	0	13	2	1	0	UMRET2/UMUNK3
2	2	1	0	9	3	1	0	UMRET3/UMUNK4
1	1	1	0	8	3	1	126	UMRET4/UMUNK5

52 COMPOUNDS PROCESSED, 10 FOUND

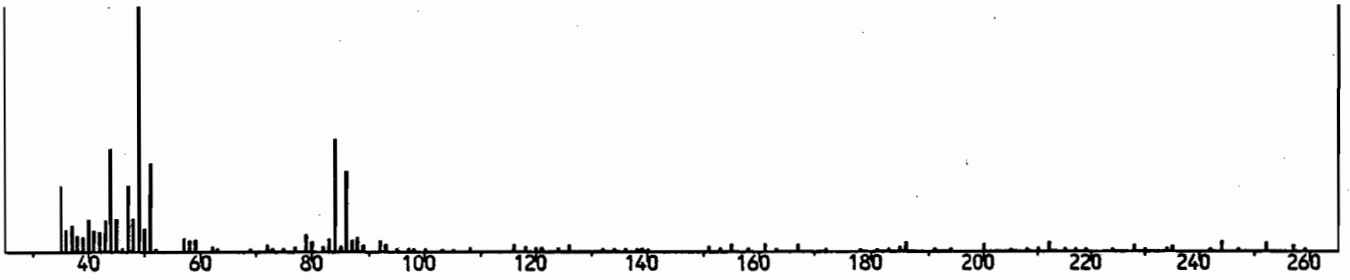
COMPOUND NO	LIB	ENTRY	SEARCH REF	SEARCH PRED	SEL	DELTA	PEAKS	FIT	SAT PEAKS	CHRO M/Z	CHRO TOP	DELTA	PEAKS
1	UM	1	-157	158	158	.	1	979	.	128	158	.	1
2	UM	2	-17	25	20	-5	1	993	.	50	20	.	1
3	UM	3	-29	37	.	.	.	.	.	94	39	.	1
4	UM	4	-39	46	55	9	1	991	.	62	.	.	.
5	UM	5	-53	59	.	.	.	.	.	64	.	.	.
6	UM	6	-90	94	90	-4	1	994	.	84	90	.	1
7	UM	7	-108	111	.	.	.	.	.	43	109	.	1
8	UM	8	-109	112	.	.	.	.	.	56	.	.	.
9	UM	9	-123	125	.	.	.	.	.	53	.	.	.
10	UM	10	-122	124	.	.	.	.	.	76	.	.	.
11	UM	11	-133	135	.	.	.	.	.	101	.	.	.
12	UM	12	-149	150	.	.	.	.	.	96	.	.	.
13	UM	53	-138	139	.	.	.	.	.	45	.	.	.
14	UM	13	-368	370	370	.	1	992	.	114	370	.	1
15	UM	51	-158	159	.	.	.	.	.	55	.	.	.
16	UM	14	-174	175	.	.	.	.	.	63	.	.	.
17	UM	15	-177	178	.	.	.	.	.	71	.	.	.
18	UM	16	-191	192	.	.	.	.	.	96	.	.	.
19	UM	17	-201	202	.	.	.	.	.	83	.	.	.
20	UM	18	-217	218	.	.	.	.	.	62	.	.	.
21	UM	19	-215	216	216	.	1	999	.	65	216	.	1
22	UM	20	-220	221	.	.	.	.	.	72	.	.	.
23	UM	21	-207	208	.	.	.	.	.	101	.	.	.
24	UM	22	-240	241	.	.	.	.	.	97	.	.	.
25	UM	23	-247	248	.	.	.	.	.	117	.	.	.
26	UM	24	-258	259	.	.	.	.	.	43	.	.	.
27	UM	25	-260	261	.	.	.	.	.	83	.	.	.
28	UM	26	-288	290	.	.	.	.	.	63	.	.	.
29	UM	27	-294	296	.	.	.	.	.	75	.	.	.
30	UM	28	-306	308	.	.	.	.	.	130	.	.	.
31	UM	29	-315	317	.	.	.	.	.	129	.	.	.
32	UM	30	-362	364	.	.	.	.	.	98	.	.	.
33	UM	31	-318	320	.	.	.	.	.	97	.	.	.
34	UM	32	-317	319	.	.	.	.	.	78	.	.	.
35	UM	33	-320	322	.	.	.	.	.	75	.	.	.
36	UM	34	-342	344	.	.	.	.	.	63	.	.	.
37	UM	35	-366	368	.	.	.	.	.	173	.	.	.
38	UM	36	-464	466	466	.	1	991	.	117	466	.	1
39	UM	37	-381	383	.	.	.	.	.	43	.	.	.
40	UM	38	-412	414	.	.	.	.	.	43	415	.	1
41	UM	39	-413	415	.	.	.	.	.	83	416	.	1
42	UM	40	-418	420	.	.	.	.	.	164	.	.	.
43	UM	41	-435	437	.	.	.	.	.	56	.	.	.
44	UM	42	-441	443	443	.	1	995	.	98	443	.	1
45	UM	43	-445	447	.	.	.	.	.	92	.	.	.
46	UM	44	-466	469	.	.	.	.	.	112	.	.	.
47	UM	45	-502	506	.	.	.	.	.	106	.	.	.
48	UM	46	-541	545	544	-1	1	994	.	95	544	.	1
49	UM	47	-565	569	570	1	1	355	.	104	.	.	.
50	UM	48	-571	575	.	.	.	.	.	106	.	.	.
51	UM	49	-584	588	.	.	.	.	.	106	.	.	.
52	UM	50	-650	655	.	.	.	.	.	146	.	.	.

Sample: L#114814 CLI#TRIP BLANK ETR#21422 100%
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: WATER Lab ID: 114814 Client ID: TRIP ETR Number: 21422 Submitted by: ADIENV
Volume: 5.000 ml

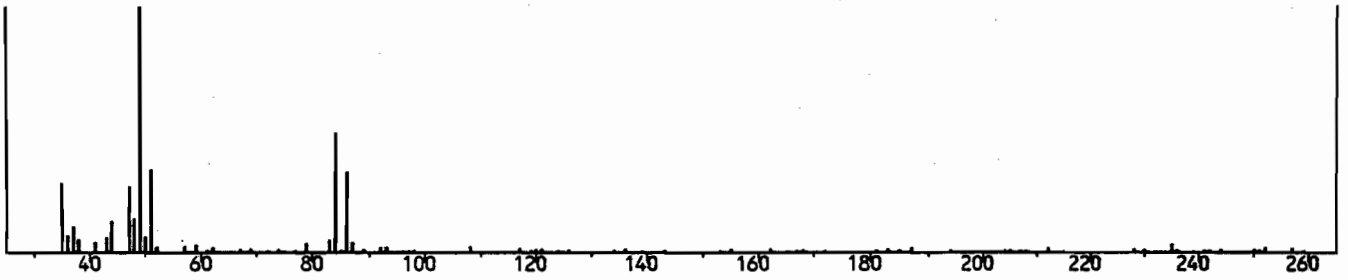
05/18/90 1137
OWAC -- SPS

LIBRARYUM#6 METHYLENE CHLORIDE

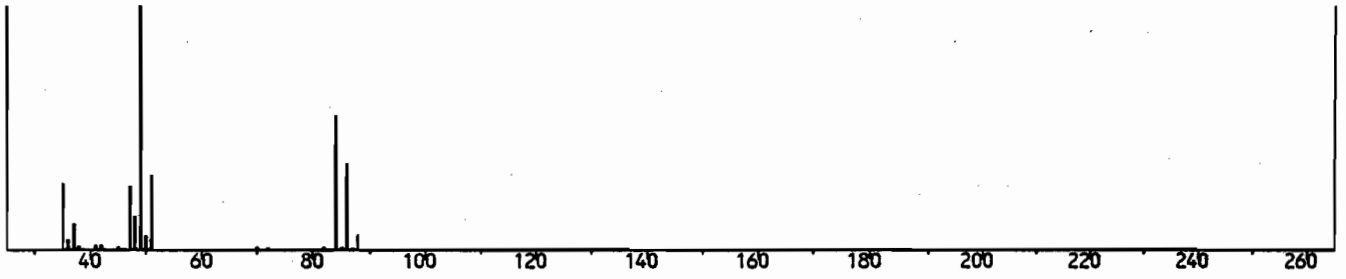
Unenhanced spectrum -- Scan # 90 Base m/z: 49 --- RIC: 15936. Max intensity: 2684



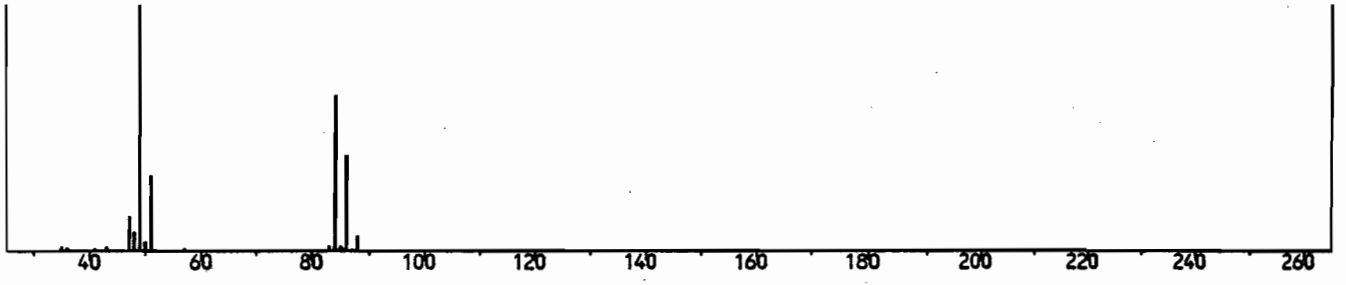
Enhanced (S 15B 2N 0T) -- Scan # 90 Base m/z: 49 --- RIC: 11456. Max intensity: 2600



Enhanced CKQ050IHV -- Scan # 91 Base m/z: 49 --- RIC: 59904. Max intensity: 17632



LIBRARYUM#6 CAS: 75-09-2 METHANE, DICHLORO- (CH2Cl2)

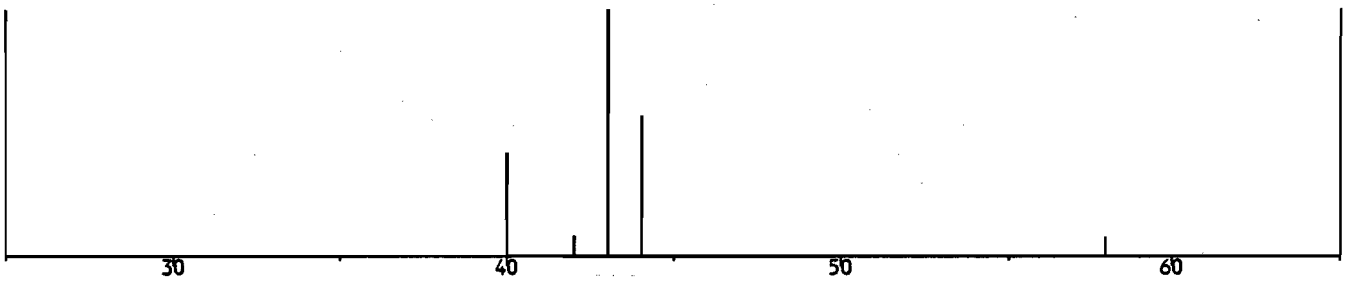


Sample: L#114814 CLI#TRIP BLANK ETR#21422 100%
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: WATER Lab ID: 114814 Client ID: TRIP ETR Number: 21422 Submitted by: ADIENV
Volume: 5.000 ml

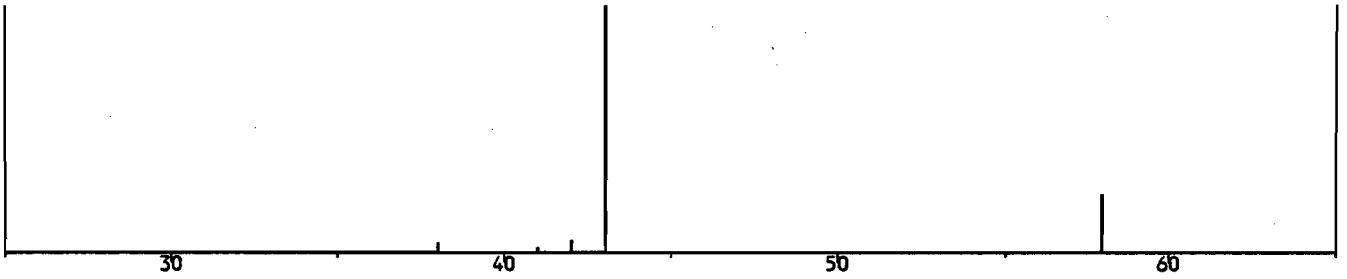
05/18/90 1137
OWAC -- SPS

LIBRARYUM#7 ACETONE

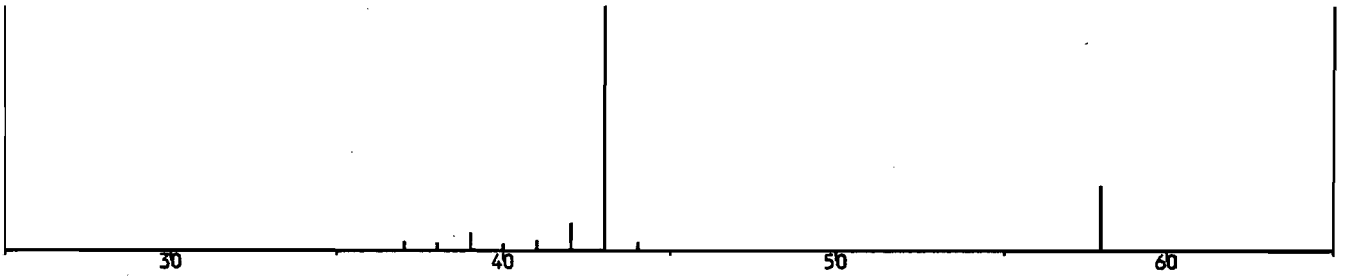
Unenhanced spectrum -- Scan # 109 Base m/z: 43 --- RIC: 1280. Max intensity: 596



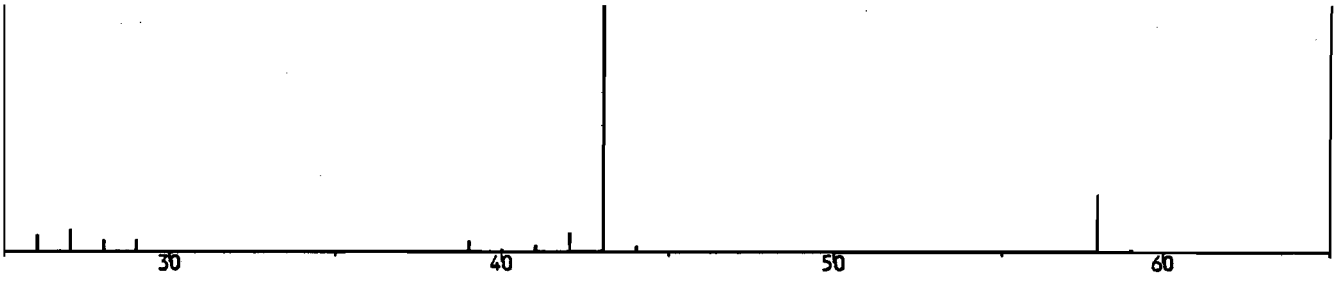
Enhanced (S 15B 2N 0T) -- Scan # 109 Base m/z: 43 --- RIC: 662. Max intensity: 493



Enhanced CKQ050IHV -- Scan # 111 Base m/z: 43 --- RIC: 7424. Max intensity: 4528

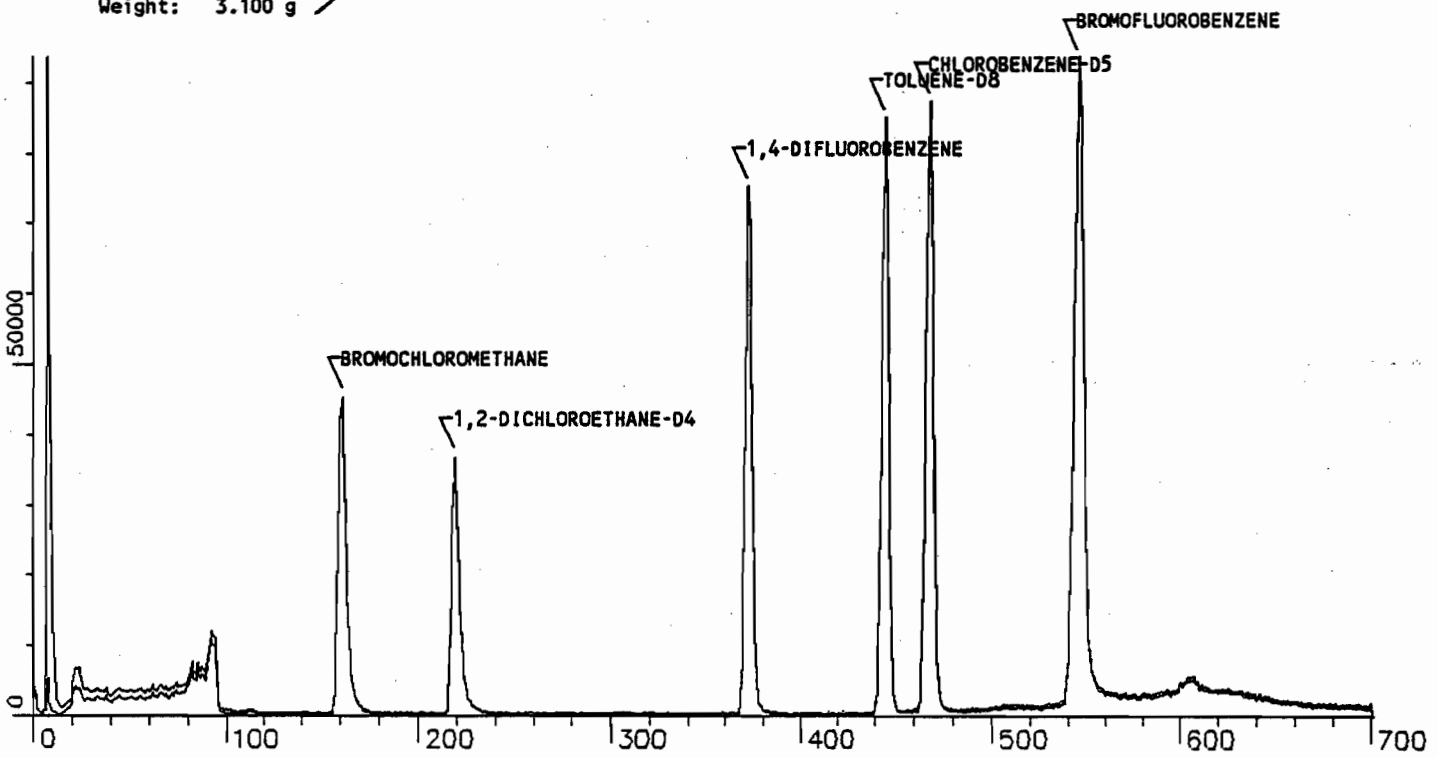


LIBRARYUM#7 CAS: 67-64-1 2-PROPANONE (C3H6O)



C114815V 1

Sample: L#114815 CLI#MW-9 5.5'-7.5' ETR#21422 3.10G
05/18/90 1228
Conditions: GC/MS OWAC
OWAC -- SPS
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114815 Client ID: MW-9 ETR Number: 21422 Submitted by: ADIENV
Weight: 3.100 g



No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
1	128	161	8:03	1	1.000	A BB	23793.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	372	18:36	13	1.000	A BB	112296.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	468	23:24	36	1.000	A BB	97613.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	219	10:57	1	1.360	A BB	58711.	55.285 PPB	110.6	19	1,2-DICHLOROETHANE-D4
42	98	445	22:15	36	0.951	A BB	116559.	52.747 PPB	105.5	42	TOLUENE-D8
46	95	545	27:15	36	1.165	A BB	77662.	51.392 PPB	102.8	46	BROMOFLUOROBENZENE

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
1	8:00	-3	1.000	1.00	50.00	50.00	1.000	1.000	1.00	1	BROMOCHLOROMETHANE
13	18:36	0	1.000	1.00	50.00	50.00	1.000	1.000	1.00	13	1,4-DIFLUOROBENZENE
36	23:21	-3	1.000	1.00	50.00	50.00	1.000	1.000	1.00	36	CHLOROBENZENE-D5
19	10:54	-3	1.362	1.00	55.28	50.00	2.468	2.232	1.11	19	1,2-DICHLOROETHANE-D4
42	22:15	0	0.953	1.00	52.75	50.00	1.194	1.132	1.05	42	TOLUENE-D8
46	27:15	0	1.167	1.00	51.39	50.00	0.796	0.774	1.03	46	BROMOFLUOROBENZENE

CKQ050IHV (05/18/90 8:40) RFs loaded on OWAC 5/18/90 9:39:20

C114815V 2

Sample: L#114815 CLI#MW-9 5.5'-7.5' ETR#21422 3.10G
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114815 Client ID: MW-9 ETR Number: 21422 Submitted by: ADIENV
Weight: 3.100 g

05/18/90 1228
OWAC -- SPS

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
2	NOT FOUND									2	CHLOROMETHANE
3	NOT FOUND									3	BROMOMETHANE
4	62	39	1:57	1	0.242	A BB	120.	0.182 PPB		4	VINYL CHLORIDE
5	NOT FOUND									5	CHLOROETHANE
6	84	92	4:36	1	0.571	A BB	3510.	4.675 PPB		6	METHYLENE CHLORIDE
7	43	112	5:36	1	0.696	A BB	1547.	4.491 PPB		7	ACETONE
8	NOT FOUND									8	ACROLEIN
9	NOT FOUND									9	ACRYLONITRILE
10	NOT FOUND									10	CARBON DISULFIDE
11	NOT FOUND									11	TRICHLOROFLUOROMETHANE
12	NOT FOUND									12	1,1-DICHLOROETHENE
14	NOT FOUND									14	1,1-DICHLOROETHANE
15	NOT FOUND									15	TETRAHYDROFURAN
16	NOT FOUND									16	1,2-DICHLOROETHENE (TOTAL)
17	NOT FOUND									17	CHLOROFORM
18	NOT FOUND									18	1,2-DICHLOROETHANE
20	NOT FOUND									20	2-BUTANONE
21	NOT FOUND									21	FREON TF
22	NOT FOUND									22	1,1,1-TRICHLOROETHANE
23	NOT FOUND									23	CARBON TETRACHLORIDE
24	NOT FOUND									24	VINYL ACETATE
25	NOT FOUND									25	BROMODICHLOROMETHANE
26	NOT FOUND									26	1,2-DICHLOROPROPANE
27	NOT FOUND									27	CIS-1,3-DICHLOROPROPENE
28	NOT FOUND									28	TRICHLOROETHENE
29	NOT FOUND									29	DIBROMOCHLOROMETHANE
30	NOT FOUND									30	METHYLCYCLOHEXANE
31	NOT FOUND									31	1,1,2-TRICHLOROETHANE
32	NOT FOUND									32	BENZENE
33	NOT FOUND									33	TRANS-1,3-DICHLOROPROPENE
34	NOT FOUND									34	2-CHLOROETHYLVINYLETHER
35	NOT FOUND									35	BROMOFORM
37	43	387	19:21	36	0.827	A BB	110.	0.075 PPB		37	4-METHYL-2-PENTANONE
38	43	418	20:54	36	0.893	A BB	94.	0.075 PPB		38	2-HEXANONE
39	NOT FOUND									39	1,1,2,2-TETRACHLOROETHANE
40	NOT FOUND									40	TETRACHLOROETHENE
41	NOT FOUND									41	BUTYL ACETATE
43	NOT FOUND									43	TOLUENE
44	NOT FOUND									44	CHLOROBENZENE
45	NOT FOUND									45	ETHYLBENZENE
47	NOT FOUND									47	STYRENE
48	NOT FOUND									48	M-XYLENE
49	NOT FOUND									49	O- & P-XYLENE
50	NOT FOUND									50	O-DICHLOROBENZENE
51	NOT FOUND									51	CYCLOPENTANE
52	NOT FOUND									52	XYLENE (TOTAL)
53	NOT FOUND									53	2-PROPANOL

C114815V 3

Sample: L#114815 CLI#MW-9 5.5'-7.5' ETR#21422 3.10G — 05/18/90 1228
Conditions: GC/MS OWAC — OWAC -- SPS
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114815 Client ID: MW-9 ETR Number: 21422 Submitted by: ADIENV
Weight: 3.100 g

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	0:57		0.119							2	CHLOROMETHANE
3	1:36		0.200							3	BROMOMETHANE
4	2:03	-6	0.256	0.95	0.18	50.00	0.005	1.387	0.00	4	VINYL CHLORIDE
5	2:48		0.350							5	CHLOROETHANE
6	4:33	-3	0.569	1.00	4.68	50.00	0.148	1.578	0.09	6	METHYLENE CHLORIDE
7	5:33	-3	0.694	1.00	4.49	50.00	0.065	0.724	0.09	7	ACETONE
8	5:39		0.706							8	ACROLEIN
9	6:18		0.788							9	ACRYLONITRILE
10	6:15		0.781							10	CARBON DISULFIDE
11	6:48		0.850							11	TRICHLOROFLUOROMETHANE
12	7:36		0.950							12	1,1-DICHLOROETHENE
14	8:51		1.106							14	1,1-DICHLOROETHANE
15	9:03		1.131							15	TETRAHYDROFURAN
16	9:42		1.212							16	1,2-DICHLOROETHENE (TOTAL)
17	10:09		1.269							17	CHLOROFORM
18	11:00		1.375							18	1,2-DICHLOROETHANE
20	11:12		1.400							20	2-BUTANONE
21	10:30		0.565							21	FREON TF
22	12:06		0.651							22	1,1,1-TRICHLOROETHANE
23	12:30		0.672							23	CARBON TETRACHLORIDE
24	13:06		0.704							24	VINYL ACETATE
25	13:09		0.707							25	BROMODICHLOROMETHANE
26	14:33		0.782							26	1,2-DICHLOROPROPANE
27	14:54		0.801							27	CIS-1,3-DICHLOROPROPENE
28	15:27		0.831							28	TRICHLOROETHENE
29	15:54		0.855							29	DIBROMOCHLOROMETHANE
30	18:15		0.981							30	METHYLCYCLOHEXANE
31	16:03		0.863							31	1,1,2-TRICHLOROETHANE
32	16:03		0.863							32	BENZENE
33	16:09		0.868							33	TRANS-1,3-DICHLOROPROPENE
34	17:15		0.927							34	2-CHLOROETHYLVINYLETHER
35	18:30		0.995							35	BROMOFORM
37	19:12	-9	0.822	1.01	0.07	50.00	0.001	0.752	0.00	37	4-METHYL-2-PENTANONE
38	20:48	-6	0.891	1.00	0.07	50.00	0.001	0.645	0.00	38	2-HEXANONE
39	20:48		0.891							39	1,1,2,2-TETRACHLOROETHANE
40	21:03		0.901							40	TETRACHLOROETHENE
41	21:54		0.938							41	BUTYL ACETATE
43	22:27		0.961							43	TOLUENE
44	23:30		1.006							44	CHLOROBENZENE
45	25:21		1.086							45	ETHYLBENZENE
47	28:30		1.221							47	STYRENE
48	28:48		1.233							48	M-XYLENE
49	29:27		1.261							49	O- & P-XYLENE
50	32:45		1.403							50	O-DICHLOROBENZENE
51	8:03		1.006							51	CYCLOPENTANE
52	28:48		1.233							52	XYLENE (TOTAL)
53	7:03		0.881							53	2-PROPANOL

C114815V16

Sample: L#114815 CLI#MW-9 5.5'-7.5' ETR#21422 3.10G
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114815 Client ID: MW-9 ETR Number: 21422 Submitted by: ADIENV
Weight: 3.100 g

05/18/90 1228
OWAC -- SPS

Summary of Tentatively Identified Compounds

Rank	Scan	Dec. Time	En.RIC Height	Est. Amount	Ref	Name
~~1~~	~~8~~	~~0.40~~	~~94975.~~	~~126.4~~	~~1~~	~~UNKNOWN~~ CO_2
~~3~~	~~22~~	~~1.10~~	~~4191.~~	~~5.6~~	~~1~~	~~UNKNOWN~~ CO_2 related
ISTD	161	8.05	37568.	50.0	1	BROMOCHLOROMETHANE
ISTD	372	18.60	50688.	50.0	13	1,4-DIFLUOROBENZENE
~~2~~	~~444~~	~~22.20~~	~~62463.~~	~~48.7~~	~~36~~	~~UNKNOWN~~ SS#42
ISTD	468	23.40	64101.	50.0	36	CHLOROBENZENE-D5

Ø TICS for reporting

Cip

PROCEDURE: TCA DIAGNOSTIC REPORT 5/18/90 13:06:05
DATA FILE: C114815V
REFERENCE: JTAB11
NAME LIST: UM INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: UMRET1

STANDARDS PROC	STANDARDS USED	STANDARDS POSS	STANDARDS RMS	PLUS UNKNOWNS PROC	PLUS UNKNOWNS USED	PLUS UNKNOWNS POSS	PLUS UNKNOWNS RMS	LIST NAMES STANDARD/UNKNOWN
1	1	1	0	13	3	1	115	UMRET1/UMUNK1
2	2	1	0	14	3	1	0	UMRET2/UMUNK2
2	2	1	0	13	3	1	0	UMRET2/UMUNK3
2	1	1	0	9	3	1	59	UMRET3/UMUNK4
1	1	1	0	8	3	2	68	UMRET4/UMUNK5

52 COMPOUNDS PROCESSED, 8 FOUND

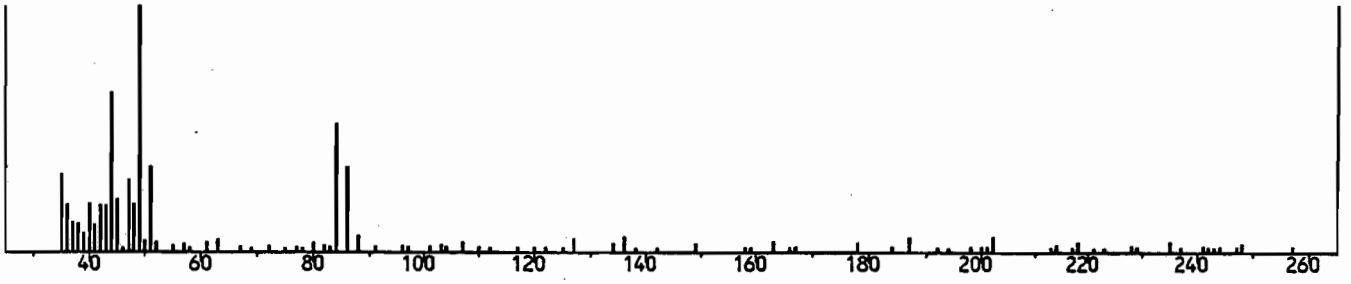
COMPOUND NO	COMPOUND LIB	COMPOUND ENTRY	SEARCH REF	SEARCH PRED	SEARCH SEL	SEARCH DELTA	SEARCH PEAKS	SAT FIT	SAT PEAKS	CHRO M/Z	CHRO TOP	CHRO DELTA	CHRO PEAKS
1	UM	1	-157	161	161	.	1	978	.	128	161	.	1
2	UM	2	-17	18	.	.	.	.	.	50	.	.	.
3	UM	3	-29	30	.	.	.	.	.	94	.	.	.
4	UM	4	-39	40	.	.	.	.	.	62	39	.	1
5	UM	5	-53	55	.	.	.	.	.	64	.	.	.
6	UM	6	-90	93	92	-1	1	996	.	84	92	.	1
7	UM	7	-108	111	112	1	1	989	.	43	112	.	1
8	UM	8	-109	112	.	.	.	.	.	56	.	.	.
9	UM	9	-123	126	.	.	.	.	.	53	.	.	.
10	UM	10	-122	125	.	.	.	.	.	76	.	.	.
11	UM	11	-133	137	.	.	.	.	.	101	.	.	.
12	UM	12	-149	153	.	.	.	.	.	96	.	.	.
13	UM	53	-138	140	.	.	.	.	.	45	.	.	.
14	UM	13	-368	372	372	.	1	992	.	114	372	.	1
15	UM	51	-158	162	.	.	.	.	.	55	.	.	.
16	UM	14	-174	178	.	.	.	.	.	63	.	.	.
17	UM	15	-177	181	.	.	.	.	.	71	.	.	.
18	UM	16	-191	195	.	.	.	.	.	96	.	.	.
19	UM	17	-201	205	.	.	.	.	.	83	.	.	.
20	UM	18	-217	221	.	.	.	.	.	62	.	.	.
21	UM	19	-215	219	219	.	1	997	.	65	219	.	1
22	UM	20	-220	224	.	.	.	.	.	72	.	.	.
23	UM	21	-207	211	.	.	.	.	.	101	.	.	.
24	UM	22	-240	244	.	.	.	.	.	97	.	.	.
25	UM	23	-247	251	.	.	.	.	.	117	.	.	.
26	UM	24	-258	262	.	.	.	.	.	43	.	.	.
27	UM	25	-260	264	.	.	.	.	.	83	.	.	.
28	UM	26	-288	292	.	.	.	.	.	63	.	.	.
29	UM	27	-294	298	.	.	.	.	.	75	.	.	.
30	UM	28	-306	310	.	.	.	.	.	130	.	.	.
31	UM	29	-315	319	.	.	.	.	.	129	.	.	.
32	UM	30	-362	366	.	.	.	.	.	98	.	.	.
33	UM	31	-318	322	.	.	.	.	.	97	.	.	.
34	UM	32	-317	321	.	.	.	.	.	78	.	.	.
35	UM	33	-320	324	.	.	.	.	.	75	.	.	.
36	UM	34	-342	346	.	.	.	.	.	63	.	.	.
37	UM	35	-366	370	.	.	.	.	.	173	.	.	.
38	UM	36	-464	469	.	.	.	.	.	117	468	.	1
39	UM	37	-381	385	.	.	.	.	.	43	387	.	1
40	UM	38	-412	416	.	.	.	.	.	43	418	.	1
41	UM	39	-413	417	.	.	.	.	.	83	.	.	.
42	UM	40	-418	422	.	.	.	.	.	164	.	.	.
43	UM	41	-435	439	.	.	.	.	.	56	.	.	.
44	UM	42	-441	445	445	.	1	996	.	98	445	.	1
45	UM	43	-445	449	.	.	.	.	.	92	.	.	.
46	UM	44	-466	470	.	.	.	.	.	112	.	.	.
47	UM	45	-502	506	.	.	.	.	.	106	.	.	.
48	UM	46	-541	545	545	.	1	993	.	95	545	.	1
49	UM	47	-565	568	568	.	2	555	.	104	.	.	.
50	UM	48	-571	574	.	.	.	.	.	106	.	.	.
51	UM	49	-584	587	.	.	.	.	.	106	.	.	.
52	UM	50	-650	653	.	.	.	.	.	146	.	.	.

Sample: L#114815 CLI#MW-9 5.5'-7.5' ETR#21422 3.10G
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114815 Client ID: MW-9 ETR Number: 21422 Submitted by: ADIENV
Weight: 3.100 g

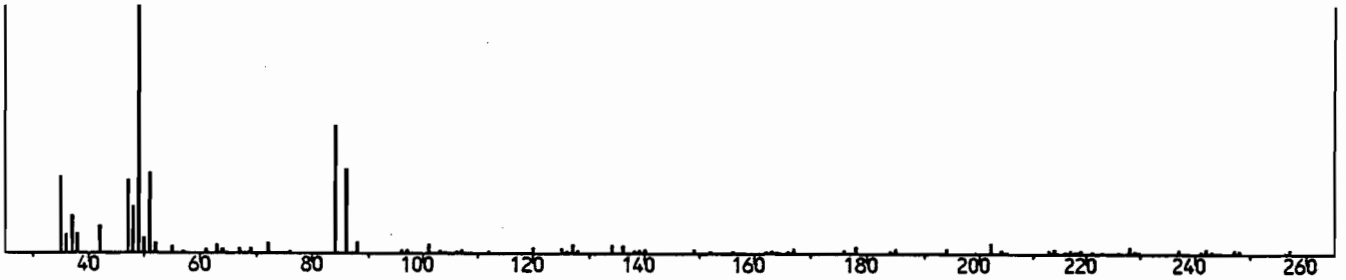
05/18/90 1228
OWAC -- SPS

LIBRARYUM#6 METHYLENE CHLORIDE

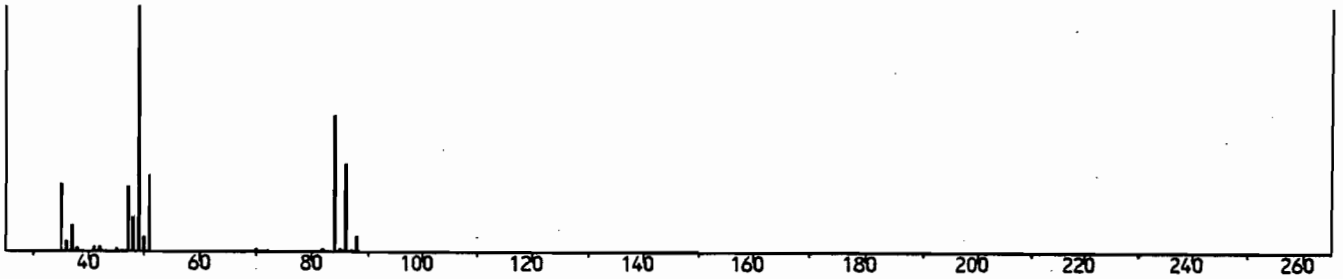
Unenhanced spectrum -- Scan # 92 Base m/z: 49 --- RIC: 12304. Max intensity: 1734



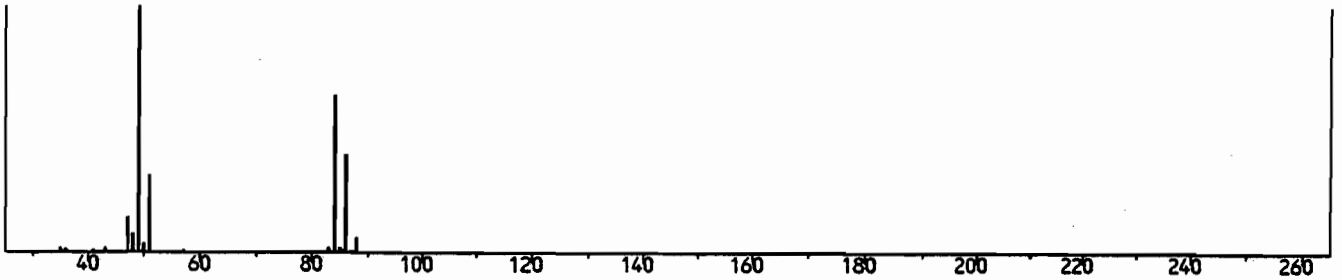
Enhanced (S 15B 2N OT) -- Scan # 92 Base m/z: 49 --- RIC: 7768. Max intensity: 1668



Enhanced CKQ050IHV -- Scan # 91 Base m/z: 49 --- RIC: 59904. Max intensity: 17632



LIBRARYUM#6 CAS: 75-09-2 METHANE, DICHLORO- (CH2Cl2)

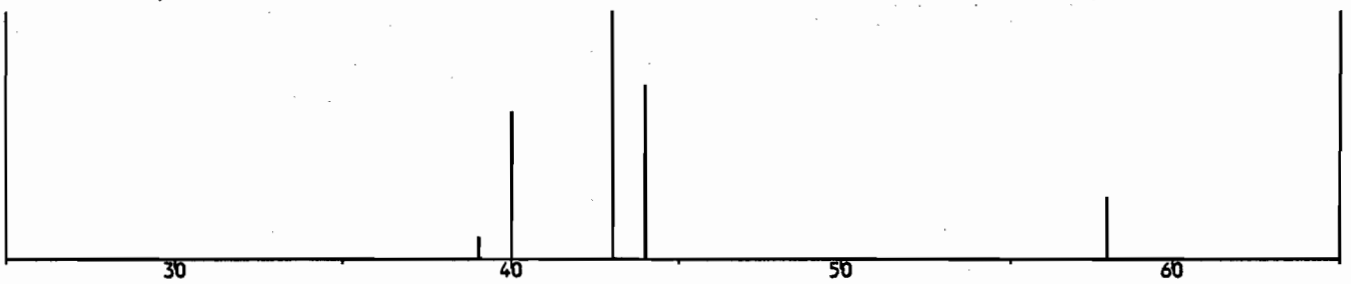


Sample: L#114815 CLI#MW-9 5.5'-7.5' ETR#21422 3.10G
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114815 Client ID: MW-9 ETR Number: 21422 Submitted by: ADIENV
Weight: 3.100 g

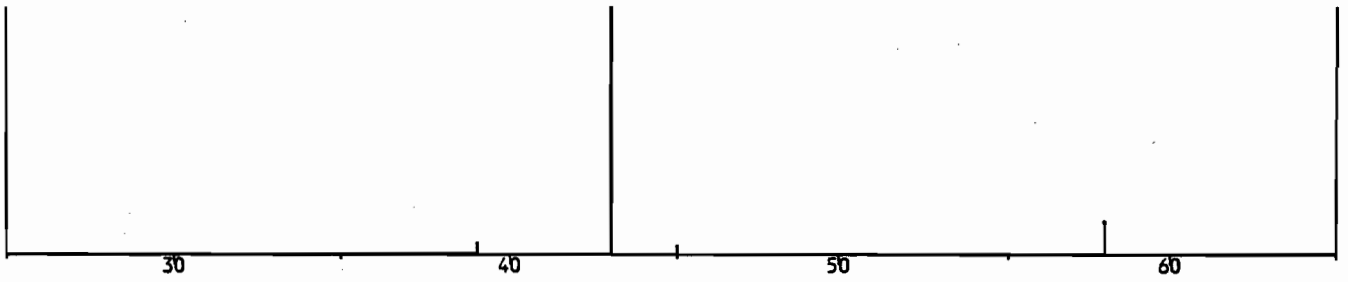
05/18/90 1228
OWAC -- SPS

LIBRARYUM#7 ACETONE

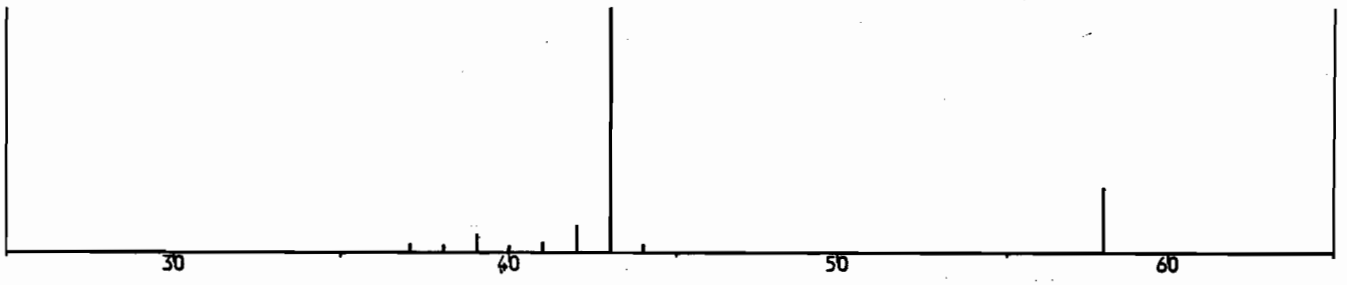
Unenhanced spectrum -- Scan # 112 Base m/z: 43 --- RIC: 949. Max intensity: 361



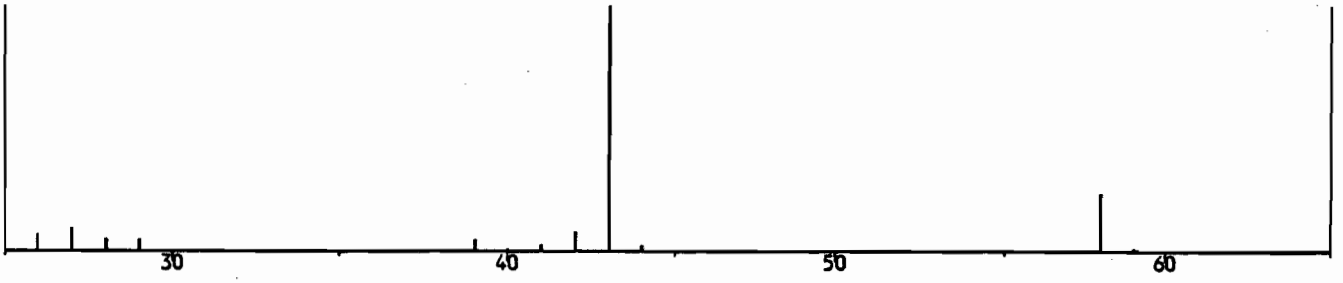
Enhanced (S 15B 2N 0T) -- Scan # 112 Base m/z: 43 --- RIC: 404. Max intensity: 331



Enhanced CKQ050IHV -- Scan # 111 Base m/z: 43 --- RIC: 7424. Max intensity: 4528



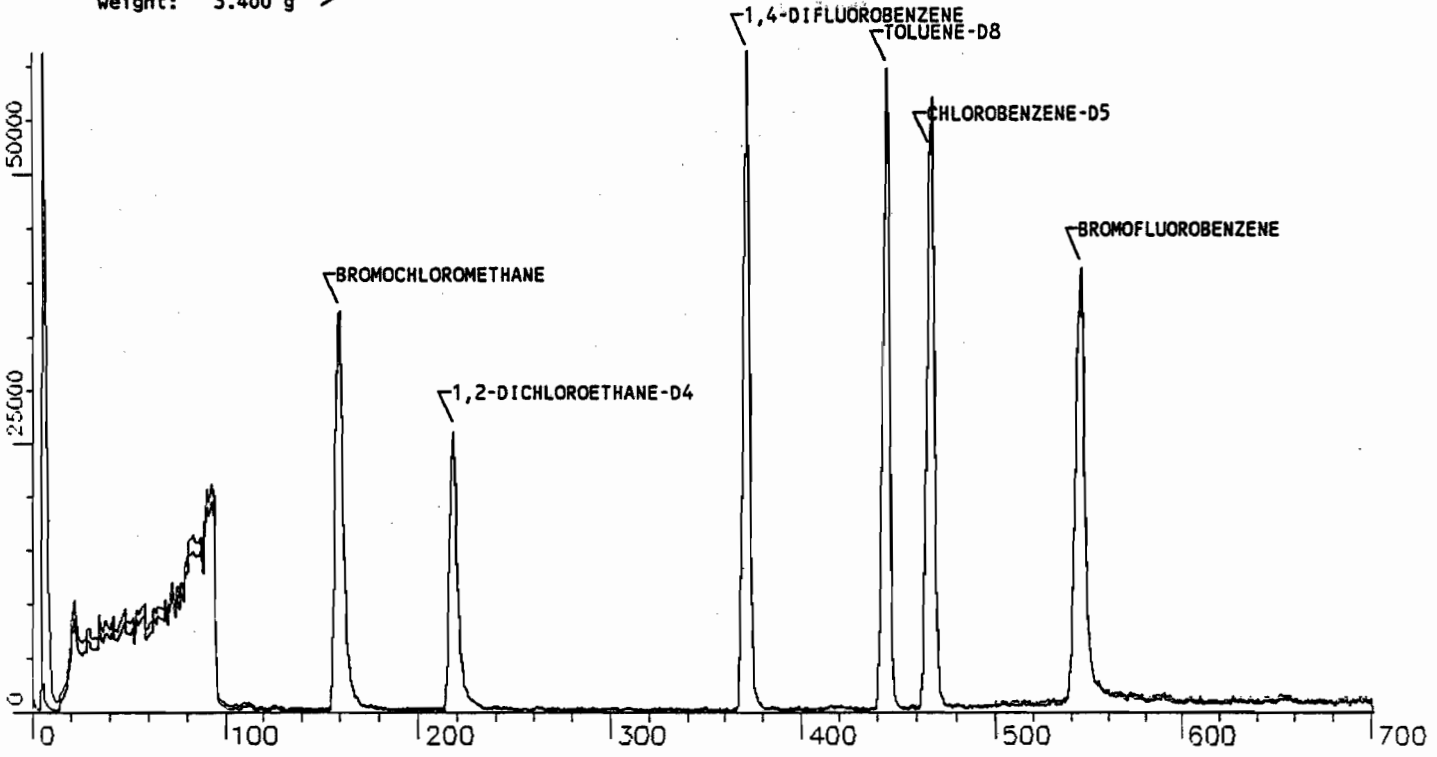
LIBRARYUM#7 CAS: 67-64-1 2-PROPANONE (C3H6O)



C114816V 1

Sample: L#114816 CLI#MW-9,10'-12' ETR#21422 3.40GRAMS
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114816 Client ID: MW-9,10'-12' ETR Number: 21422 Submitted by: ADIENV
Weight: 3.400 g

05/22/90 0957
OWAC -- CMP



No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
1	128	159	7:57	1	1.000	A BB	21136.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	371	18:33	13	1.000	A BV	91466.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	466	23:18	36	1.000	A BB	66053.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	218	10:54	1	1.371	A BB	38574.	47.510 PPB	95.0	19	1,2-DICHLOROETHANE-D4
42	98	444	22:12	36	0.953	A BB	78543.	50.080 PPB	100.2	42	TOLUENE-D8
46	95	545	27:15	36	1.170	A BB	34116.	47.016 PPB	94.0	46	BROMOFLUOROBENZENE

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
1	8:00	3	1.000	1.00	50.00	50.00	1.000	1.000	1.00	1	BROMOCHLOROMETHANE
13	18:33	0	1.000	1.00	50.00	50.00	1.000	1.000	1.00	13	1,4-DIFLUOROBENZENE
36	23:21	3	1.000	1.00	50.00	50.00	1.000	1.000	1.00	36	CHLOROBENZENE-D5
19	10:51	-3	1.356	1.01	47.51	50.00	1.825	1.921	0.95	19	1,2-DICHLOROETHANE-D4
42	22:12	0	0.951	1.00	50.08	50.00	1.189	1.187	1.00	42	TOLUENE-D8
46	27:15	0	1.167	1.00	47.02	50.00	0.516	0.549	0.94	46	BROMOFLUOROBENZENE

CKT050BHV (05/22/90 6:26) RFs loaded on OWAC 5/22/90 8:11:40

C114816V 2

Sample: L#114816 CLI#MW-9,10'-12' ETR#21422 3.40GRAMS
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114816 Client ID: MW-9,10'-12' ETR Number: 21422 Submitted by: ADIENV
Weight: 3.400 g

05/22/90 0957
OWAC -- CMP

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
2	50	41	2.03	1	0.258	A BB	206.	0.572 PPB		2	CHLOROMETHANE
3	94	48	2.24	1	0.302	A BB	863.	2.086 PPB		3	BROMOMETHANE
4	NOT FOUND									4	VINYL CHLORIDE
5	64	65	3:15	1	0.409	A BB	126.	0.454 PPB		5	CHLOROETHANE
6	84	91	4:33	1	0.572	A BB	3230.	6.066 PPB		6	METHYLENE CHLORIDE
7	43	112	5:36	1	0.704	A BB	1656.	10.092 PPB		7	ACETONE
8	NOT FOUND									8	ACROLEIN
9	NOT FOUND									9	ACRYLONITRILE
10	76	126	6.18	1	0.792	A BB	690.	0.560 PPB		10	CARBON DISULFIDE
11	NOT FOUND									11	TRICHLOROFLUOROMETHANE
12	NOT FOUND									12	1,1-DICHLOROETHENE
14	NOT FOUND									14	1,1-DICHLOROETHANE
15	NOT FOUND									15	TETRAHYDROFURAN
16	NOT FOUND									16	1,2-DICHLOROETHENE (TOTAL)
17	NOT FOUND									17	CHLOROFORM
18	NOT FOUND									18	1,2-DICHLOROETHANE
20	NOT FOUND									20	2-BUTANONE
21	NOT FOUND									21	FREON TF
22	97	242	12.06	13	0.652	A BB	108.	0.117 PPB		22	1,1,1-TRICHLOROETHANE
23	NOT FOUND									23	CARBON TETRACHLORIDE
24	NOT FOUND									24	VINYL ACETATE
25	NOT FOUND									25	BROMODICHLOROMETHANE
26	NOT FOUND									26	1,2-DICHLOROPROPANE
27	NOT FOUND									27	CIS-1,3-DICHLOROPROPENE
28	NOT FOUND									28	TRICHLOROETHENE
29	NOT FOUND									29	DIBROMOCHLOROMETHANE
30	NOT FOUND									30	METHYLCYCLOHEXANE
31	NOT FOUND									31	1,1,2-TRICHLOROETHANE
32	NOT FOUND									32	BENZENE
33	NOT FOUND									33	TRANS-1,3-DICHLOROPROPENE
34	NOT FOUND									34	2-CHLOROETHYLVINYLETHER
35	NOT FOUND									35	BROMOFORM
37	43	385	19.15	36	0.826	A BB	204.	0.260 PPB		37	4-METHYL-2-PENTANONE
38	43	417	20:51	36	0.895	A BB	832.	1.389 PPB		38	2-HEXANONE
39	83	415	20:45	36	0.891	A BB	430.	0.647 PPB		39	1,1,2,2-TETRACHLOROETHANE
40	NOT FOUND									40	TETRACHLOROETHENE
41	NOT FOUND									41	BUTYL ACETATE
43	92	449	22.27	36	0.964	A BB	296.	0.296 PPB		43	TOLUENE
44	NOT FOUND									44	CHLOROBENZENE
45	106	504	25:12	36	1.082	A BB	123.	0.261 PPB		45	ETHYLBENZENE
47	104	572	28.36	36	1.227	A BB	80.	0.093 PPB		47	STYRENE
48	106	573	28.39	36	1.230	A BB	80.	0.137 PPB		48	M-XYLENE
49	106	591	29.33	36	1.268	A BB	371.	0.721 PPB		49	O- & P-XYLENE
50	146	652	32.36	36	1.399	A BB	1042.	2.067 PPB		50	O-DICHLOROBENZENE
51	NOT FOUND									51	CYCLOPENTANE
52	106	591	29.33	36	1.268	A*BB	451.	0.770 PPB		52	XYLENE (TOTAL)
53	NOT FOUND									53	2-PROPANOL

C114816V 3

Sample: L#114816 CLI#MW-9,10'-12' ETR#21422 3.40GRAMS
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114816 Client ID: MW-9,10'-12' ETR Number: 21422 Submitted by: ADIENV
Weight: 3.400 g

05/22/90 0957
OWAC -- CMP

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	0:54	-69*	0.112	2.29	0.57	55.00	0.009	0.853	0.01	2	CHLOROMETHANE
3	1:33	-51*	0.194	1.56	2.09	55.00	0.037	0.979	0.04	3	BROMOMETHANE
4	2:00		0.250							4	VINYL CHLORIDE
5	2:45	-30*	0.344	1.19	0.45	55.00	0.005	0.657	0.01	5	CHLOROETHANE
6	4:36	3	0.575	1.00	6.07	50.00	0.153	1.260	0.12	6	METHYLENE CHLORIDE
7	5:36	0	0.700	1.01	10.09	50.00	0.078	0.388	0.20	7	ACETONE
8	5:42		0.713							8	ACROLEIN
9	6:21		0.794							9	ACRYLONITRILE
10	6:15	-3	0.781	1.01	0.56	50.00	0.033	2.915	0.01	10	CARBON DISULFIDE
11	6:42		0.837							11	TRICHLOROFLUOROMETHANE
12	7:36		0.950							12	1,1-DICHLOROETHENE
14	8:48		1.100							14	1,1-DICHLOROETHANE
15	9:00		1.125							15	TETRAHYDROFURAN
16	9:42		1.212							16	1,2-DICHLOROETHENE (TOTAL)
17	10:06		1.262							17	CHLOROFORM
18	10:57		1.369							18	1,2-DICHLOROETHANE
20	11:09		1.394							20	2-BUTANONE
21	10:27		0.563							21	FREON TF
22	12:03	-3	0.650	1.00	0.12	50.00	0.001	0.503	0.00	22	1,1,1-TRICHLOROETHANE
23	12:27		0.671							23	CARBON TETRACHLORIDE
24	13:03		0.704							24	VINYL ACETATE
25	13:06		0.706							25	BROMODICHLOROMETHANE
26	14:30		0.782							26	1,2-DICHLOROPROPANE
27	14:48		0.798							27	CIS-1,3-DICHLOROPROPENE
28	15:24		0.830							28	TRICHLOROETHENE
29	15:48		0.852							29	DIBROMOCHLOROMETHANE
30	18:12		0.981							30	METHYLCYCLOHEXANE
31	15:57		0.860							31	1,1,2-TRICHLOROETHANE
32	15:57		0.860							32	BENZENE
33	16:06		0.868							33	TRANS-1,3-DICHLOROPROPENE
34	17:15		0.930							34	2-CHLOROETHYLVINYLETHER
35	18:27		0.995							35	BROMOFORM
37	19:12	-3	0.822	1.00	0.26	50.00	0.003	0.594	0.01	37	4-METHYL-2-PENTANONE
38	20:48	-3	0.891	1.00	1.31	50.00	0.013	0.481	0.03	38	2-HEXANONE
39	20:45	0	0.889	1.00	0.65	50.00	0.007	0.503	0.01	39	1,1,2,2-TETRACHLOROETHANE
40	21:00		0.899							40	TETRACHLOROETHENE
41	21:54		0.938							41	BUTYL ACETATE
43	22:24	-3	0.959	1.00	0.30	50.00	0.004	0.757	0.01	43	TOLUENE
44	23:27		1.004							44	CHLOROBENZENE
45	25:18	6	1.084	1.00	0.26	50.00	0.002	0.356	0.01	45	ETHYLBENZENE
47	28:27	-9	1.218	1.01	0.09	50.00	0.001	0.649	0.00	47	STYRENE
48	28:45	6	1.231	1.00	0.14	50.00	0.001	0.443	0.00	48	M-XYLENE
49	29:24	-9	1.259	1.01	0.72	30.00	0.009	0.389	0.02	49	O- & P-XYLENE
50	32:42	6	1.400	1.00	2.07	50.00	0.016	0.382	0.04	50	O-DICHLOROBENZENE
51	8:03		1.006							51	CYCLOPENTANE
52	28:45	48*	1.231	1.03	0.77	50.00	0.007	0.443	0.02	52	XYLENE (TOTAL)
53	7:03		0.881							53	2-PROPANOL

C114816V$_{28}$

Sample: L#114816 CLI#MW-9,10'-12' ETR#21422 3.40GRAMS
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114816 Client ID: MW-9,10'-12' ETR Number: 21422 Submitted by: ADIENV
Weight: 3.400 g

05/22/90 0957
OWAC -- CMP

Summary of Tentatively Identified Compounds

Rank	Scan	Dec. Time	En.RIC Height	Est. Amount	Ref	Name
~~6~~	22	1.10	4951.	8.0	1	UNKNOWN
11	35	1.75	3223.	5.2	1	UNKNOWN
10	38	1.90	3243.	5.2	1	UNKNOWN
12	54	2.70	3183.	5.1	1	UNKNOWN
8	58	2.90	3591.	5.8	1	UNKNOWN
9	69	3.45	3387.	5.5	1	UNKNOWN
7	72	3.60	4183.	6.7	1	UNKNOWN
5	83	4.15	5023.	8.1	1	UNKNOWN
4	90	4.50	9167.	14.8	1	UNKNOWN
~~3~~	~~93~~	~~4.65~~	~~9567.~~	~~15.4~~	~~1~~	~~UNKNOWN~~ TCL#6
ISTD	159	7.95	31033.	50.0	1	BROMOCHLOROMETHANE
~~1~~	~~160~~	~~8.00~~	~~35391.~~	~~57.0~~	~~1~~	~~UNKNOWN~~ ISTD#1
ISTD	371	18.55	40960.	50.0	13	1,4-DIFLUOROBENZENE
~~2~~	~~443~~	~~22.15~~	~~44031.~~	~~52.0~~	~~36~~	~~UNKNOWN~~ SS#2
ISTD	467	23.35	42373.	50.0	36	CHLOROBENZENE-D5

background noise
cjp

Ø TIC's for reporting
cjp

PROCEDURE: TCA DIAGNOSTIC REPORT 5/22/90 10:34:30
DATA FILE: C114816V
REFERENCE: UTAB11
NAME LIST: UM INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: UMRET1

STANDARDS PROC	STANDARDS USED	STANDARDS POSS	STANDARDS RMS	PLUS UNKNOWNS PROC	PLUS UNKNOWNS USED	PLUS UNKNOWNS POSS	PLUS UNKNOWNS RMS	LIST NAMES STANDARD/UNKNOWN
1	1	1	0	1	7	30	410	UMRET1/UMUNK1
2	2	1	0	1	3	1	22	UMRET2/UMUNK2
2	2	1	0	1	3	1	0	UMRET2/UMUNK3
3	2	1	0	1	3	1	50	UMRET3/UMUNK4
4	1	1	0	1	3	5	223	UMRET4/UMUNK5

52 COMPOUNDS PROCESSED, 17 FOUND

COMPOUND NO	LIB	ENTRY	REF	PREV	SAT	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	UM	1	-158	158	158		1	979		128	159		1
2	UM	2	-18	37	41	4	1	985		50	41		1
3	UM	3	-30	47						94	48		1
4	UM	4	-40	55			5	990		62			
5	UM	5	-55	68	66	-1	3	986		64	65	-2	1
6	UM	6	-89	97	92	-5	2	977		84	91	-1	1
7	UM	7	-113	117	112	-5	1	994		43	112		1
8	UM	8	-112	116						56			
9	UM	9	-125	127						53			
10	UM	10	-122	124	126	2	1	1000		76	126		1
11	UM	11	-134	134						101			
12	UM	12	-151	149						96			
13	UM	53	-144	143						45			
14	UM	13	-371	371	371		1	997		114	371		1
15	UM	51	-160	161						55			
16	UM	14	-176	176						60			
17	UM	15	-180	181						71			
18	UM	16	-193	194						96			
19	UM	17	-202	203						83			
20	UM	18	-219	220						62			
21	UM	19	-217	218	218		1	1000		65	218		1
22	UM	20	-224	225						72			
23	UM	21	-210	211						101			
24	UM	22	-242	243						97	242		1
25	UM	23	-250	251						117			
26	UM	24	-262	263						46			
27	UM	25	-262	263						80			
28	UM	26	-291	291						60			
29	UM	27	-297	297						75			
30	UM	28	-309	309						130			
31	UM	29	-316	316						139			
32	UM	30	-365	366						98			
33	UM	31	-320	320						97			
34	UM	32	-320	320						78			
35	UM	33	-322	321						75			
36	UM	34	-345	345						63			
37	UM	35	-369	369						173			
38	UM	36	-467	467	467		1	994		117	466	-1	1
39	UM	37	-384	384						43	385		1
40	UM	38	-416	416						43	417		1
41	UM	39	-415	416	416	1	1	842		83	415	-1	1
42	UM	40	-421	421						164			
43	UM	41	-438	438						56			
44	UM	42	-444	444	444		1	993		98	444		1
45	UM	43	-448	448	448		1	997		92	449	1	1
46	UM	44	-469	469						112			
47	UM	45	-506	506						106	504		1
48	UM	46	-545	545	544	-1	1	992		95	545	1	1
49	UM	47	-569	569	572	3	3	349		104	572		1
50	UM	48	-575	575	573	-2	2	990		106	573		1
51	UM	49	-589	589	590	1	1	991		106	591	1	1
52	UM	50	-653	653						146	652		1

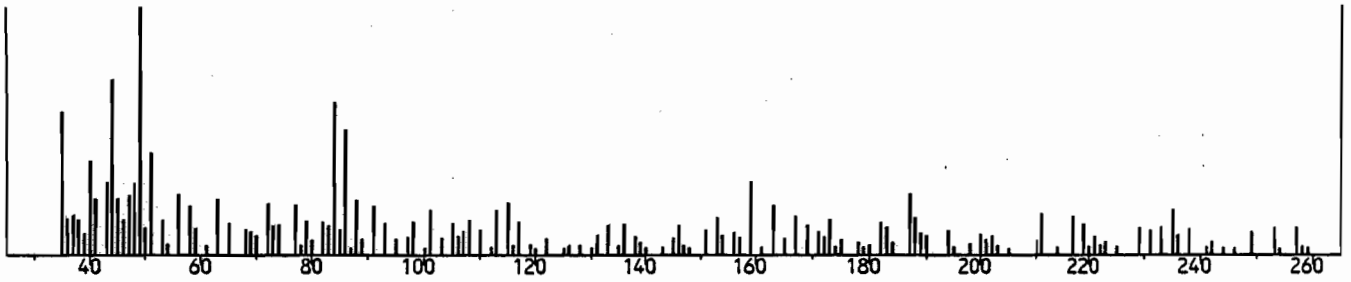
C114816V 7

Sample: L#114816 CLI#MW-9,10'-12' ETR#21422 3.40GRAMS
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114816 Client ID: MW-9,10'-12' ETR Number: 21422 Submitted by: ADIENV
Weight: 3.400 g

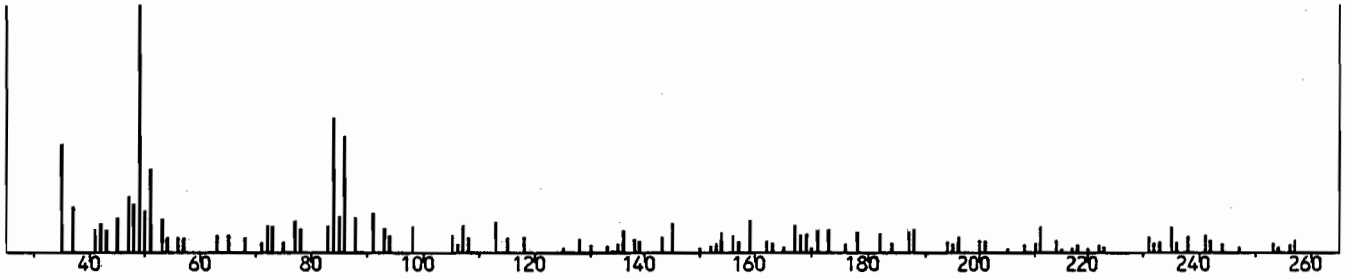
05/22/90 0957
OWAC -- CMP

LIBRARYUM#6 METHYLENE CHLORIDE

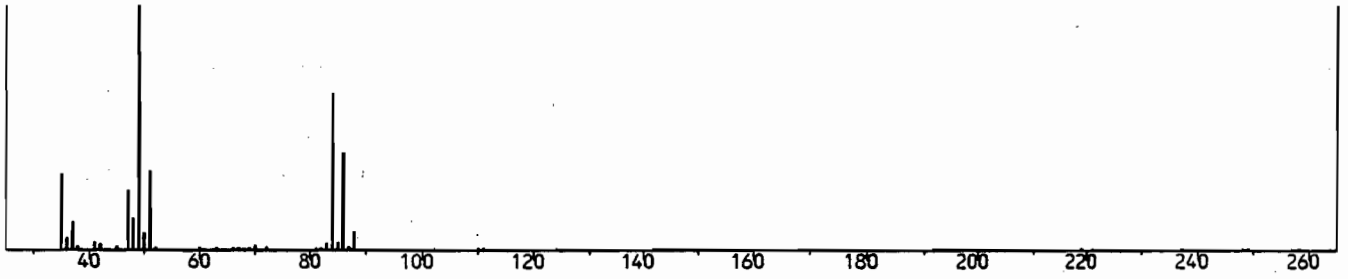
Unenhanced spectrum -- Scan # 91 Base m/z: 49 --- RIC: 19456. Max intensity: 1082



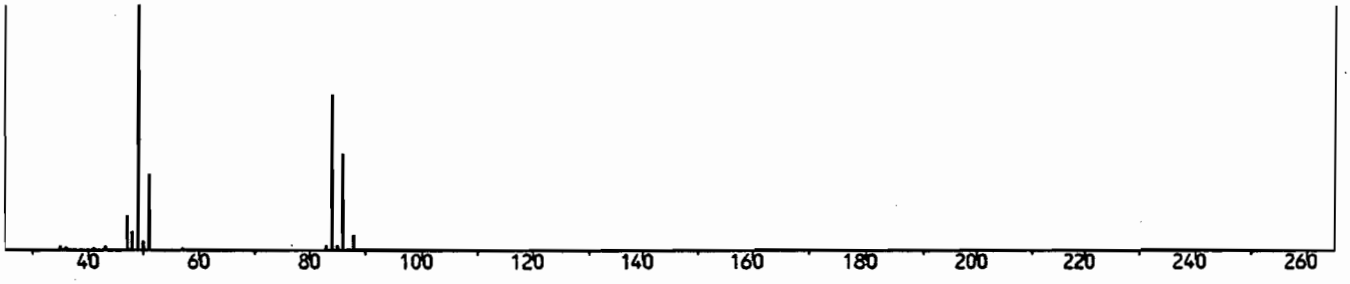
Enhanced (S 15B 2N 0T) -- Scan # 91 Base m/z: 49 --- RIC: 11296. Max intensity: 1164



Enhanced CKT050BHV -- Scan # 92 Base m/z: 49 --- RIC: 52416. Max intensity: 12880



LIBRARYUM#6 CAS: 75-09-2 METHANE, DICHLORO- (CH2Cl2)



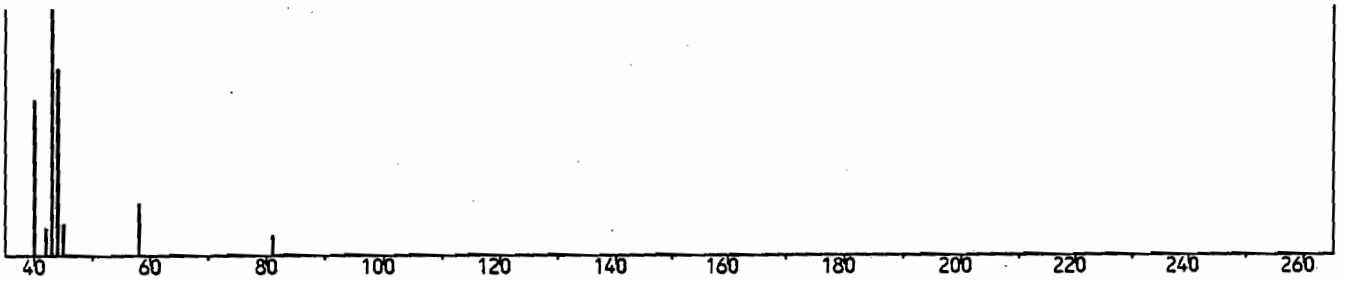
C114816V 8

05/22/90 0957
OWAC -- CMP

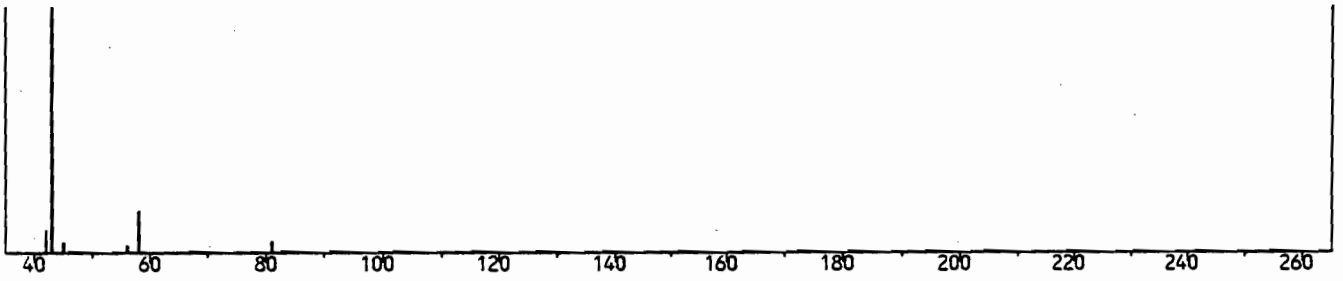
Sample: L#114816 CLI#MW-9,10'-12' ETR#21422 3.40GRAMS
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114816 Client ID: MW-9,10'-12' ETR Number: 21422 Submitted by: ADIENV
Weight: 3.400 g

LIBRARYUM#7 ACETONE

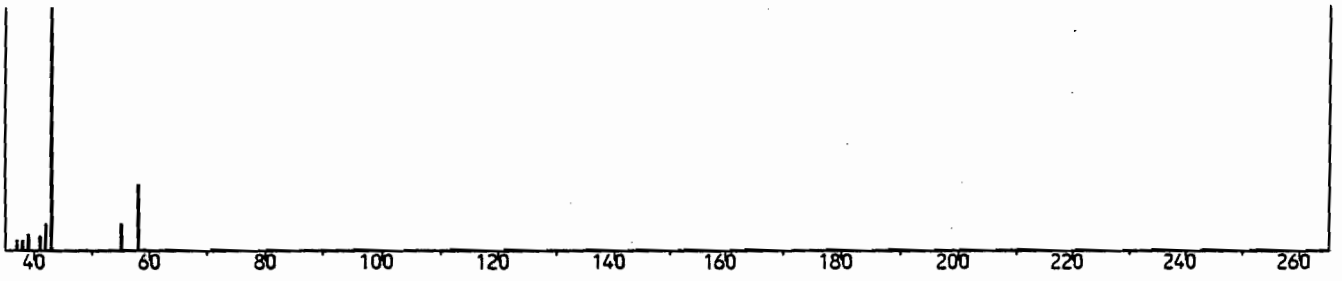
Unenhanced spectrum -- Scan # 112 Base m/z: 43 --- RIC: 1132. Max intensity: 388



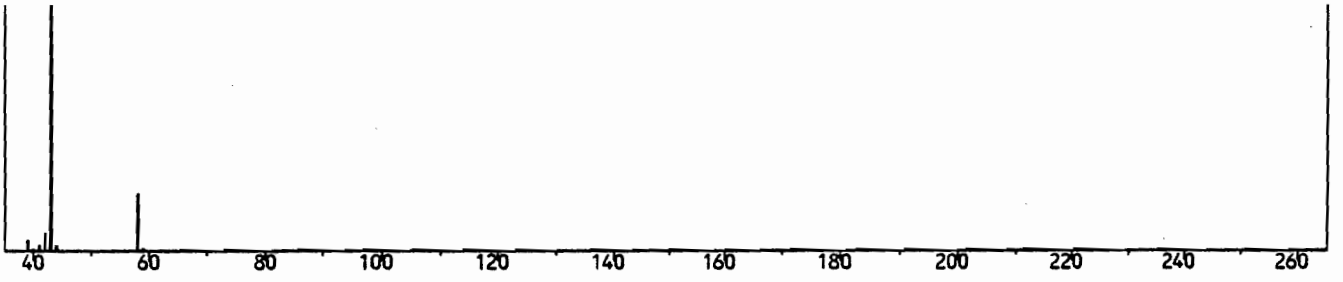
Enhanced (S 15B 2N 0T) -- Scan # 112 Base m/z: 43 --- RIC: 498. Max intensity: 363



Enhanced CKT050BHV -- Scan # 112 Base m/z: 43 --- RIC: 4496. Max intensity: 2592



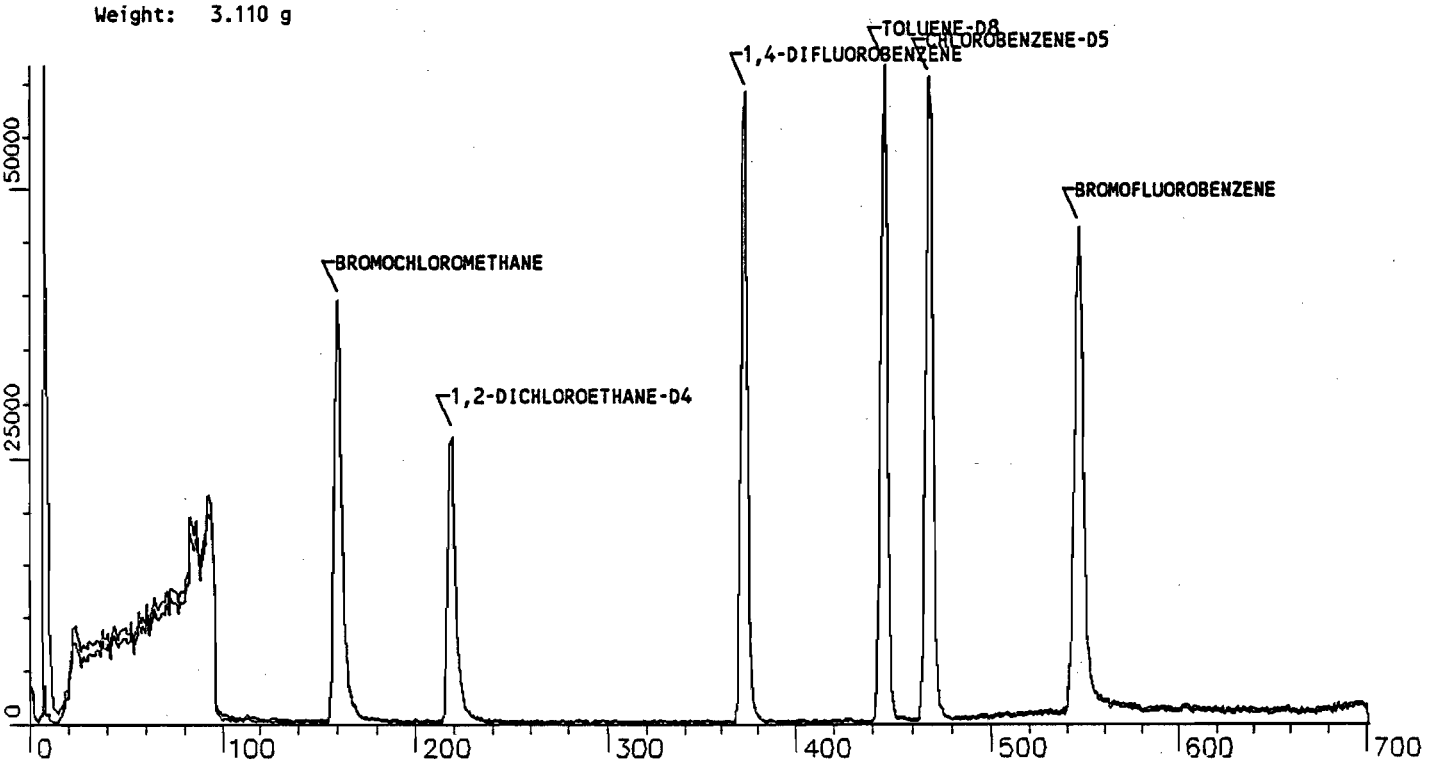
LIBRARYUM#7 CAS: 67-64-1 2-PROPANONE (C3H6O)



C114817V 1

Sample: L#114817 CLI#MW-10,5.5'-7.5' ETR#21422 3.11GRAMS
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114817 Client ID: MW-10,5.5'-7.5' ETR Number: 21422 Submitted by: ADIEN
Weight: 3.110 g

05/22/90 1113
OWAC -- CMP



No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
1	128	160	8:00	1	1.000	A BB	22568.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	373	18:39	13	1.000	A BB	94996.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	468	23:24	36	1.000	A BB	72522.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	219	10:57	1	1.369	A BB	39638.	45.722 PPB	91.4	19	1,2-DICHLOROETHANE-D4
42	98	446	22:18	36	0.953	A BB	84942.	49.329 PPB	98.7	42	TOLUENE-D8
46	95	546	27:18	36	1.167	A BB	39514.	49.598 PPB	99.2	46	BROMOFLUOROBENZENE

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
1	8:00	0	1.000	1.00	50.00	50.00	1.000	1.000	1.00	1	BROMOCHLOROMETHANE
13	18:33	-6	1.000	1.00	50.00	50.00	1.000	1.000	1.00	13	1,4-DIFLUOROBENZENE
36	23:21	-3	1.000	1.00	50.00	50.00	1.000	1.000	1.00	36	CHLOROBENZENE-D5
19	10:51	-6	1.356	1.01	45.72	50.00	1.756	1.921	0.91	19	1,2-DICHLOROETHANE-D4
42	22:12	-6	0.951	1.00	49.33	50.00	1.171	1.187	0.99	42	TOLUENE-D8
46	27:15	-3	1.167	1.00	49.60	50.00	0.545	0.549	0.99	46	BROMOFLUOROBENZENE

CKT0508HV (05/22/90 6:26) RFs loaded on MSDP1 6/13/90 7:37:04

C114817V 2

05/22/90 1113
OWAC -- CMP

Sample: L#114817 CLI#MW-10,5.5'-7.5' ETR#21422 3.11GRAMS
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114817 Client ID: MW-10,5.5'-7.5' ETR Number: 21422 Submitted by: ADIENV
Weight: 3.110 g

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
2	50	37	1:51	1	0.231	A BB	110.	0.299 PPB		2	CHLOROMETHANE
3	94	52	2:36	1	0.325	A BB	289.	0.654 PPB		3	BROMOMETHANE
4	62	68	3:24	1	0.425	A BB	127.	0.331 PPB		4	VINYL CHLORIDE
5	64	74	3:42	1	0.463	A BB	484.	1.558 PPB		5	CHLOROETHANE
6	84	92	4:36	1	0.575	A BB	3520.	6.191 PPB		6	METHYLENE CHLORIDE
7	43	113	5:39	1	0.706	A BB	814.	4.649 PPB		7	ACETONE
8	NOT FOUND									8	ACROLEIN
9	NOT FOUND									9	ACRYLONITRILE
10	76	127	6:21	1	0.794	A BB	296.	0.225 PPB		10	CARBON DISULFIDE
11	NOT FOUND									11	TRICHLOROFLUOROMETHANE
12	NOT FOUND									12	1,1-DICHLOROETHENE
14	NOT FOUND									14	1,1-DICHLOROETHANE
15	NOT FOUND									15	TETRAHYDROFURAN
16	NOT FOUND									16	1,2-DICHLOROETHENE (TOTAL)
17	NOT FOUND									17	CHLOROFORM
18	NOT FOUND									18	1,2-DICHLOROETHANE
20	NOT FOUND									20	2-BUTANONE
21	NOT FOUND									21	FREON TF
22	NOT FOUND									22	1,1,1-TRICHLOROETHANE
23	NOT FOUND									23	CARBON TETRACHLORIDE
24	NOT FOUND									24	VINYL ACETATE
25	NOT FOUND									25	BROMODICHLOROMETHANE
26	NOT FOUND									26	1,2-DICHLOROPROPANE
27	NOT FOUND									27	CIS-1,3-DICHLOROPROPENE
28	NOT FOUND									28	TRICHLOROETHENE
29	NOT FOUND									29	DIBROMOCHLOROMETHANE
30	NOT FOUND									30	METHYLCYCLOHEXANE
31	NOT FOUND									31	1,1,2-TRICHLOROETHANE
32	NOT FOUND									32	BENZENE
33	NOT FOUND									33	TRANS-1,3-DICHLOROPROPENE
34	NOT FOUND									34	2-CHLOROETHYLVINYLETHER
35	NOT FOUND									35	BROMOFORM
37	NOT FOUND									37	4-METHYL-2-PENTANONE
38	43	419	20:57	36	0.895	A BB	126.	0.181 PPB		38	2-HEXANONE
39	NOT FOUND									39	1,1,2,2-TETRACHLOROETHANE
40	NOT FOUND									40	TETRACHLOROETHENE
41	NOT FOUND									41	BUTYL ACETATE
43	NOT FOUND									43	TOLUENE
44	NOT FOUND									44	CHLOROBENZENE
45	NOT FOUND									45	ETHYLBENZENE
47	NOT FOUND									47	STYRENE
48	NOT FOUND									48	M-XYLENE
49	NOT FOUND									49	O- & P-XYLENE
50	NOT FOUND									50	O-DICHLOROBENZENE
51	NOT FOUND									51	CYCLOPENTANE
52	NOT FOUND									52	XYLENE (TOTAL)
53	45	144	7:12	1	0.900	A BB	66.	2.412 PPB		53	2-PROPANOL

C114817V 3

Sample: L#114817 CLI#MW-10,5.5'-7.5' ETR#21422 3.11GRAMS
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114817 Client ID: MW-10,5.5'-7.5' ETR Number: 21422 Submitted by: ADIENV
Weight: 3.110 g

05/22/90 1113
OWAC -- CMP

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	0:54	-57*	0.112	2.06	0.30	57.50	0.004	0.816	0.01	2	CHLOROMETHANE
3	1:33	-63*	0.194	1.68	0.65	55.00	0.012	0.979	0.01	3	BROMOMETHANE
4	2:00	-84*	0.258	1.70	0.33	50.00	0.006	0.850	0.01	4	VINYL CHLORIDE
5	2:45	-57*	0.344	1.35	1.56	52.50	0.020	0.688	0.03	5	CHLOROETHANE
6	4:36	0	0.575	1.00	6.19	50.00	0.156	1.260	0.12	6	METHYLENE CHLORIDE
7	5:36	-3	0.700	1.01	4.65	50.00	0.036	0.388	0.09	7	ACETONE
8	5:42		0.713							8	ACROLEIN
9	6:21		0.794							9	ACRYLONITRILE
10	6:15	-6	0.781	1.02	0.22	50.00	0.013	2.915	0.00	10	CARBON DISULFIDE
11	6:42		0.837							11	TRICHLOROFLUOROMETHANE
12	7:36		0.950							12	1,1-DICHLOROETHENE
14	8:48		1.100							14	1,1-DICHLOROETHANE
15	9:00		1.125							15	TETRAHYDROFURAN
16	9:42		1.212							16	1,2-DICHLOROETHENE (TOTAL)
17	10:06		1.262							17	CHLOROFORM
18	10:57		1.369							18	1,2-DICHLOROETHANE
20	11:09		1.394							20	2-BUTANONE
21	10:27		0.563							21	FREON TF
22	12:03		0.650							22	1,1,1-TRICHLOROETHANE
23	12:27		0.671							23	CARBON TETRACHLORIDE
24	13:03		0.704							24	VINYL ACETATE
25	13:06		0.706							25	BROMODICHLOROMETHANE
26	14:30		0.782							26	1,2-DICHLOROPROPANE
27	14:48		0.798							27	CIS-1,3-DICHLOROPROPENE
28	15:24		0.830							28	TRICHLOROETHENE
29	15:48		0.852							29	DIBROMOCHLOROMETHANE
30	18:12		0.981							30	METHYLCYCLOHEXANE
31	15:57		0.860							31	1,1,2-TRICHLOROETHANE
32	15:57		0.860							32	BENZENE
33	16:06		0.868							33	TRANS-1,3-DICHLOROPROPENE
34	17:15		0.930							34	2-CHLOROETHYLVINYLETHER
35	18:27		0.995							35	BROMOFORM
37	19:12		0.822							37	4-METHYL-2-PENTANONE
38	20:48	-9	0.891	1.01	0.18	50.00	0.002	0.481	0.00	38	2-HEXANONE
39	20:45		0.889							39	1,1,2,2-TETRACHLOROETHANE
40	21:00		0.899							40	TETRACHLOROETHENE
41	21:54		0.938							41	BUTYL ACETATE
43	22:24		0.959							43	TOLUENE
44	23:27		1.004							44	CHLOROBENZENE
45	25:18		1.084							45	ETHYLBENZENE
47	28:27		1.218							47	STYRENE
48	28:45		1.231							48	M-XYLENE
49	29:24		1.259							49	O- & P-XYLENE
50	32:42		1.400							50	O-DICHLOROBENZENE
51	8:03		1.006							51	CYCLOPENTANE
52	28:45		1.231							52	XYLENE (TOTAL)
53	7:03	-9	0.881	1.02	2.41	50.00	0.003	0.061	0.05	53	2-PROPANOL

C114817V$_{24}$

Sample: L#114817 CLI#MW-10,5.5'-7.5' ETR#21422 3.11GRAMS
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114817 Client ID: MW-10,5.5'-7.5' ETR Number: 21422 Submitted by: ADIENV
Weight: 3.110 g

05/22/90 1113
OWAC -- CMP

Summary of Tentatively Identified Compounds

Rank	Scan	Dec. Time	En.RIC Height	Est. Amount	Ref	Name
~~1~~	8	0.40	69247.	105.3	1	UNKNOWN
5	23	1.15	4391.	6.7	1	UNKNOWN
9	44	2.20	3583.	5.4	1	UNKNOWN
8	57	2.85	3851.	5.9	1	UNKNOWN
10	61	3.05	3323.	5.1	1	UNKNOWN
6	65	3.25	4367.	6.6	1	UNKNOWN
7	73	3.65	4015.	6.1	1	UNKNOWN
3	83	4.15	6023.	9.2	1	UNKNOWN
4	86	4.30	5959.	9.1	1	UNKNOWN
~~2~~	~~93~~	~~4.65~~	~~9535.~~	~~14.5~~	~~1~~	~~UNKNOWN~~ TCL#6
ISTD	160	8.00	32890.	50.0	1	BROMOCHLOROMETHANE
ISTD	373	18.65	40256.	50.0	13	1,4-DIFLUOROBENZENE
ISTD	468	23.40	46433.	50.0	36	CHLOROBENZENE-D5

background noise

Ø TIC's for reporting

cjp

PROCEDURE: TCA DIAGNOSTIC REPORT 5/22/90 11:47:33
DATA FILE: C114817V
REFERENCE: JTAB11
NAME LIST: UM INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: UMRET1

STANDARDS PROC	STANDARDS USED	STANDARDS POSS	STANDARDS RMS	PLUS UNKNOWNS PROC	PLUS UNKNOWNS USED	PLUS UNKNOWNS POSS	PLUS UNKNOWNS RMS	LIST NAMES STANDARD/UNKNOWN
1	1	1	0	10	8	8	650	UMRET1/UMUNK1
2	2	1	0	11	9	1	0	UMRET2/UMUNK2
2	2	1	0	12	10	1	0	UMRET2/UMUNK3
2	1	1	0	3	3	1	59	UMRET3/UMUNK4
1	1	1	0	4	4	5	543	UMRET4/UMUNK5

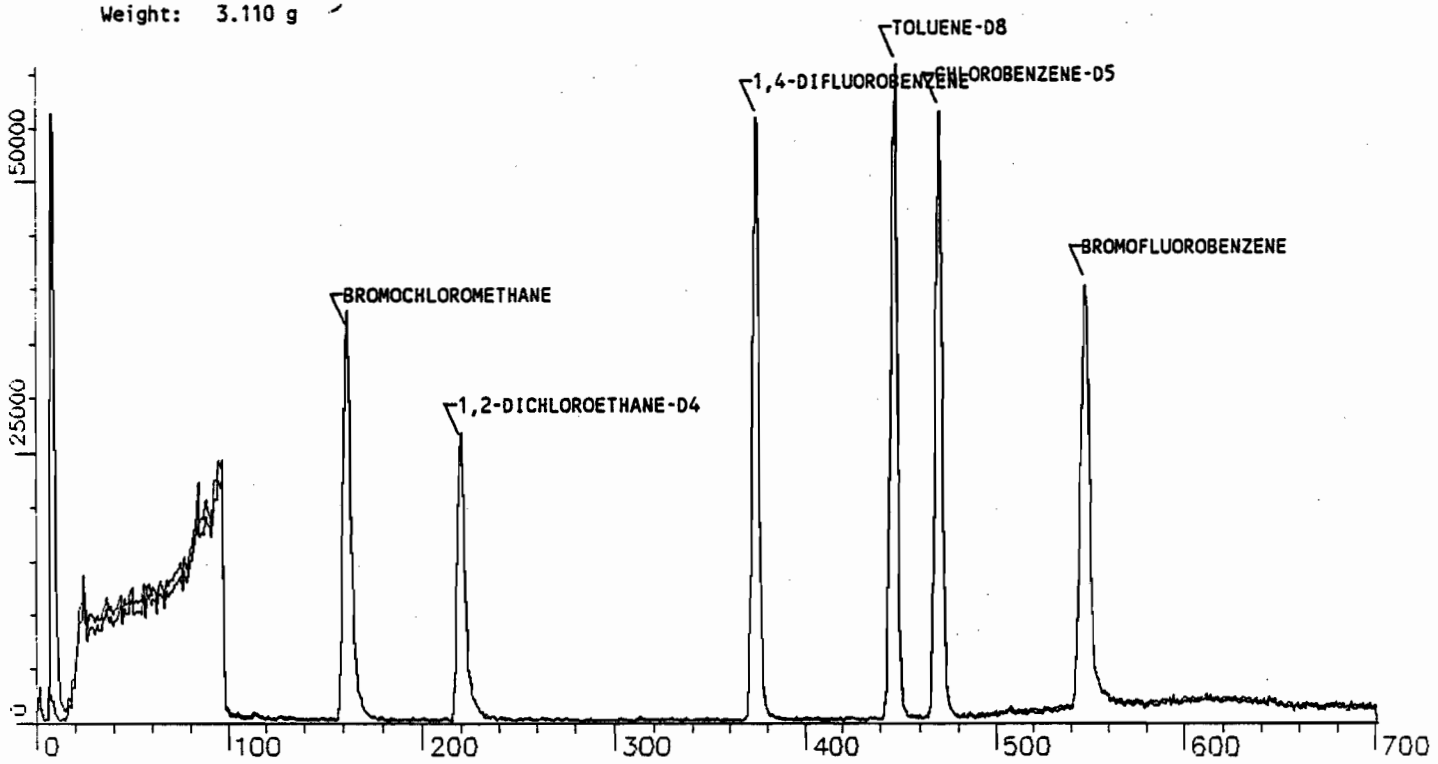
32 COMPOUNDS PROCESSED, 12 FOUND

COMPOUND NO	LIB	ENTRY	SEARCH REF	SEARCH PRED	SEARCH SEL	SEARCH DELTA	SEARCH PEAKS	SAT FIT	SAT PEAKS	CHRO M/Z	CHRO TOP	CHRO DELTA	CHRO PEAKS
1	UM	1	-158	160	160		1	977		128	160		1
2	UM	2	-18	43	37	-6	1	981		50	37		1
3	UM	3	-30	53						94	52		1
4	UM	4	-40	61	70	9	4	994		62	68	-2	1
5	UM	5	-55	73	74	1	2	996		64	74		1
6	UM	6	-89	101						84			
7	UM	7	-113	120	114	-6	1	979		43	113	-1	1
8	UM	8	-112	119						56			
9	UM	9	-125	130						53			
10	UM	10	-122	128	127	-1	1	1000		76	127		1
11	UM	11	-134	137						101			
12	UM	12	-151	151						96			
13	UM	53	-144	146						45	144		1
14	UM	13	-371	373	373		1	992		114	373		1
15	UM	51	-160	162						55			
16	UM	14	-176	178						63			
17	UM	15	-180	182						71			
18	UM	16	-193	195						96			
19	UM	17	-202	204						83			
20	UM	18	-219	221						62			
21	UM	19	-217	219	219		1	996		65	219		1
22	UM	20	-224	226						72			
23	UM	21	-210	212						101			
24	UM	22	-242	244						97			
25	UM	23	-250	252						117			
26	UM	24	-262	264						43			
27	UM	25	-262	264						83			
28	UM	26	-291	293						63			
29	UM	27	-297	299						75			
30	UM	28	-309	311						130			
31	UM	29	-316	318						129			
32	UM	30	-365	367						98			
33	UM	31	-320	322						97			
34	UM	32	-320	322						78			
35	UM	33	-322	324						75			
36	UM	34	-345	347						63			
37	UM	35	-369	371						173			
38	UM	36	-467	470						117	468		1
39	UM	37	-384	386						43			
40	UM	38	-416	418						43	419		1
41	UM	39	-415	417						83			
42	UM	40	-421	423						164			
43	UM	41	-438	440						56			
44	UM	42	-444	446	446		1	988		98	446		1
45	UM	43	-448	450						92			
46	UM	44	-469	471						112			
47	UM	45	-506	513						106			
48	UM	46	-545	552	546	-6	1	990		95	546		1
49	UM	47	-569	577	578	1	5	355		104			
50	UM	48	-575	583	587	4	1	955		106			
51	UM	49	-589	597						106			
52	UM	50	-653	662						146			

C114818V 1

Sample: L#114818 CLI#MW-10,20-22' ETR#21422 3.11G
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114818 Client ID: MW-10,20-22' ETR Number: 21422 Submitted by: ADIENV
Weight: 3.110 g

05/22/90 1546
OWAC -- CMS



No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
1	128	161	8:03	1	1.000	A BB	20972.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	373	18:39	13	1.000	A BB	89015.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	469	23:27	36	1.000	A BB	64784.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	219	10:57	1	1.360	A BB	37953.	47.110 PPB	94.2	19	1,2-DICHLOROETHANE-D4
42	98	447	22:21	36	0.953	A BB	79699.	51.813 PPB	103.6	42	TOLUENE-D8
46	95	547	27:21	36	1.166	A BB	33085.	46.488 PPB	93.0	46	BROMOFLUOROBENZENE

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
1	8:00	-3	1.000	1.00	50.00	50.00	1.000	1.000	1.00	1	BROMOCHLOROMETHANE
13	18:33	-6	1.000	1.00	50.00	50.00	1.000	1.000	1.00	13	1,4-DIFLUOROBENZENE
36	23:21	-6	1.000	1.00	50.00	50.00	1.000	1.000	1.00	36	CHLOROBENZENE-D5
19	10:51	-6	1.356	1.00	47.11	50.00	1.810	1.921	0.94	19	1,2-DICHLOROETHANE-D4
42	22:12	-9	0.951	1.00	51.81	50.00	1.230	1.187	1.04	42	TOLUENE-D8
46	27:15	-6	1.167	1.00	46.49	50.00	0.511	0.549	0.93	46	BROMOFLUOROBENZENE

CKT050BHV (05/22/90 6:26) RFs loaded on OWAC 5/22/90 8:11:40

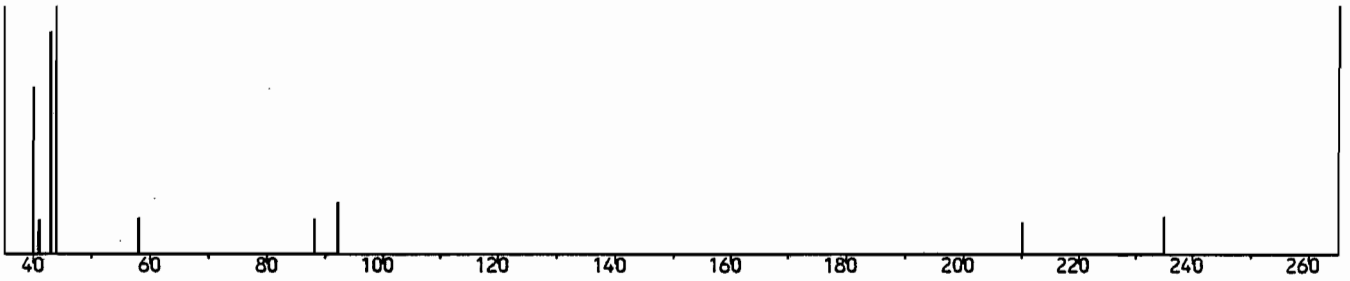
C114817V 7

Sample: L#114817 CLI#MW-10,5.5'-7.5' ETR#21422 3.11GRAMS
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114817 Client ID: MW-10,5.5'-7.5' ETR Number: 21422 Submitted by: ADIENV
Weight: 3.110 g

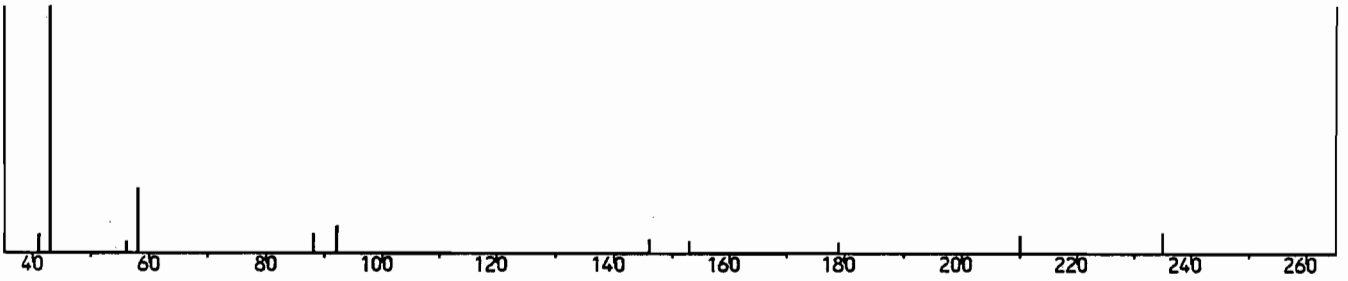
05/22/90 1113
OWAC -- CMP

LIBRARYUM#7 ACETONE

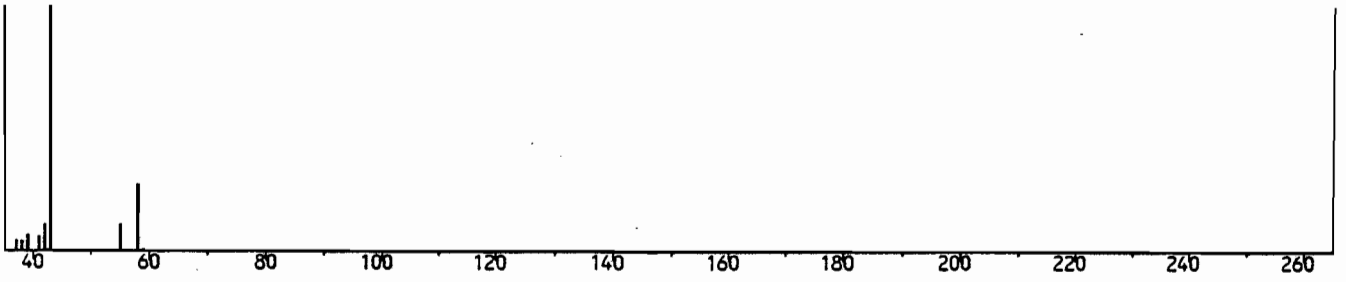
Unenhanced spectrum -- Scan # 113 Base m/z: 44 --- RIC: 905. Max intensity: 260



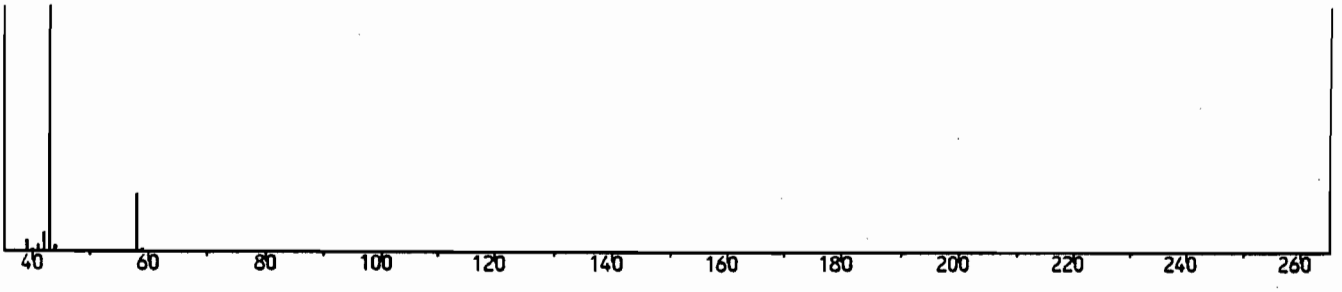
Enhanced (S 15B 2N 0T) -- Scan # 113 Base m/z: 43 --- RIC: 455. Max intensity: 244



Enhanced CKT050BHV -- Scan # 112 Base m/z: 43 --- RIC: 4496. Max intensity: 2592



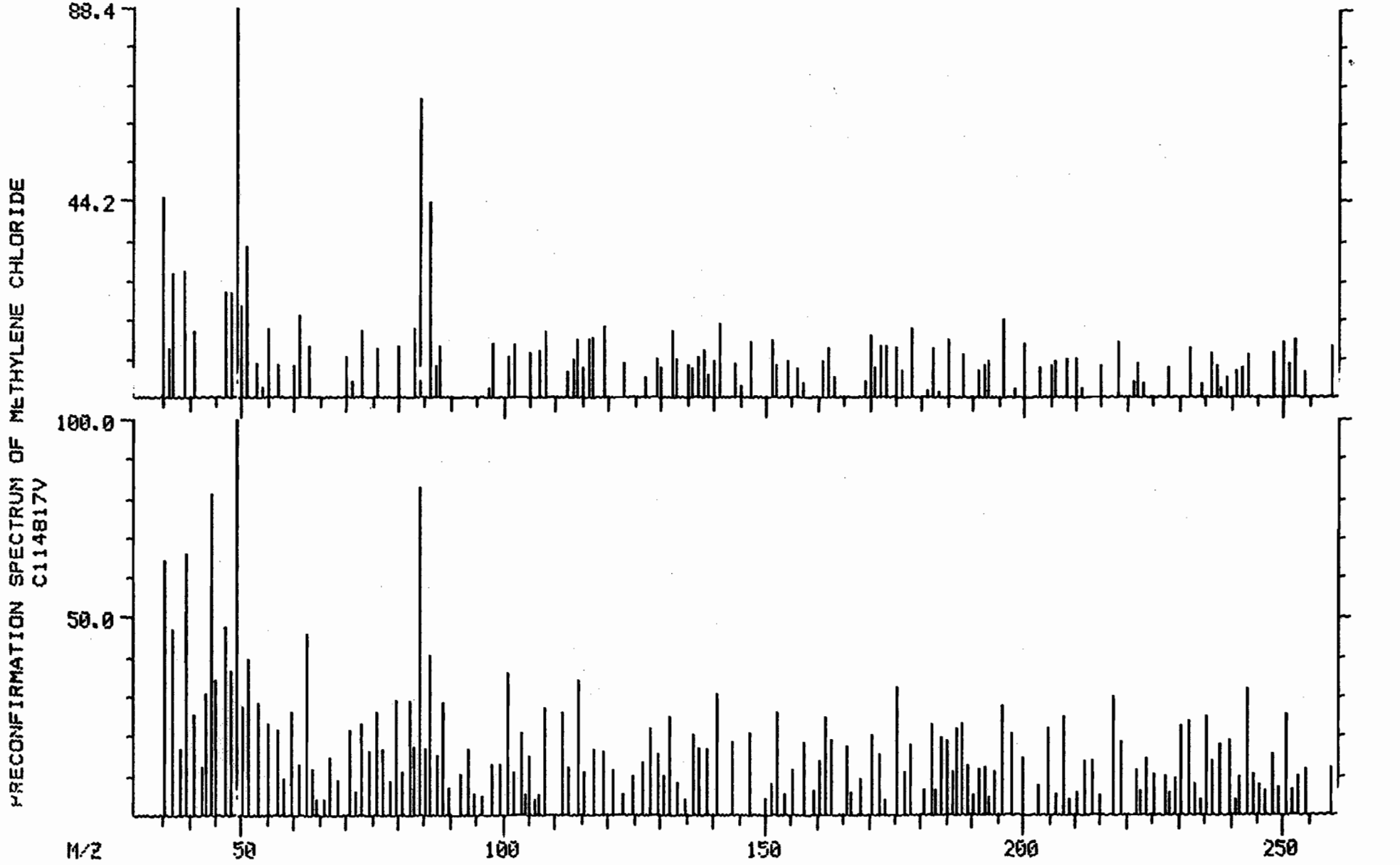
LIBRARYUM#7 CAS: 67-64-1 2-PROPANONE (C3H6O)

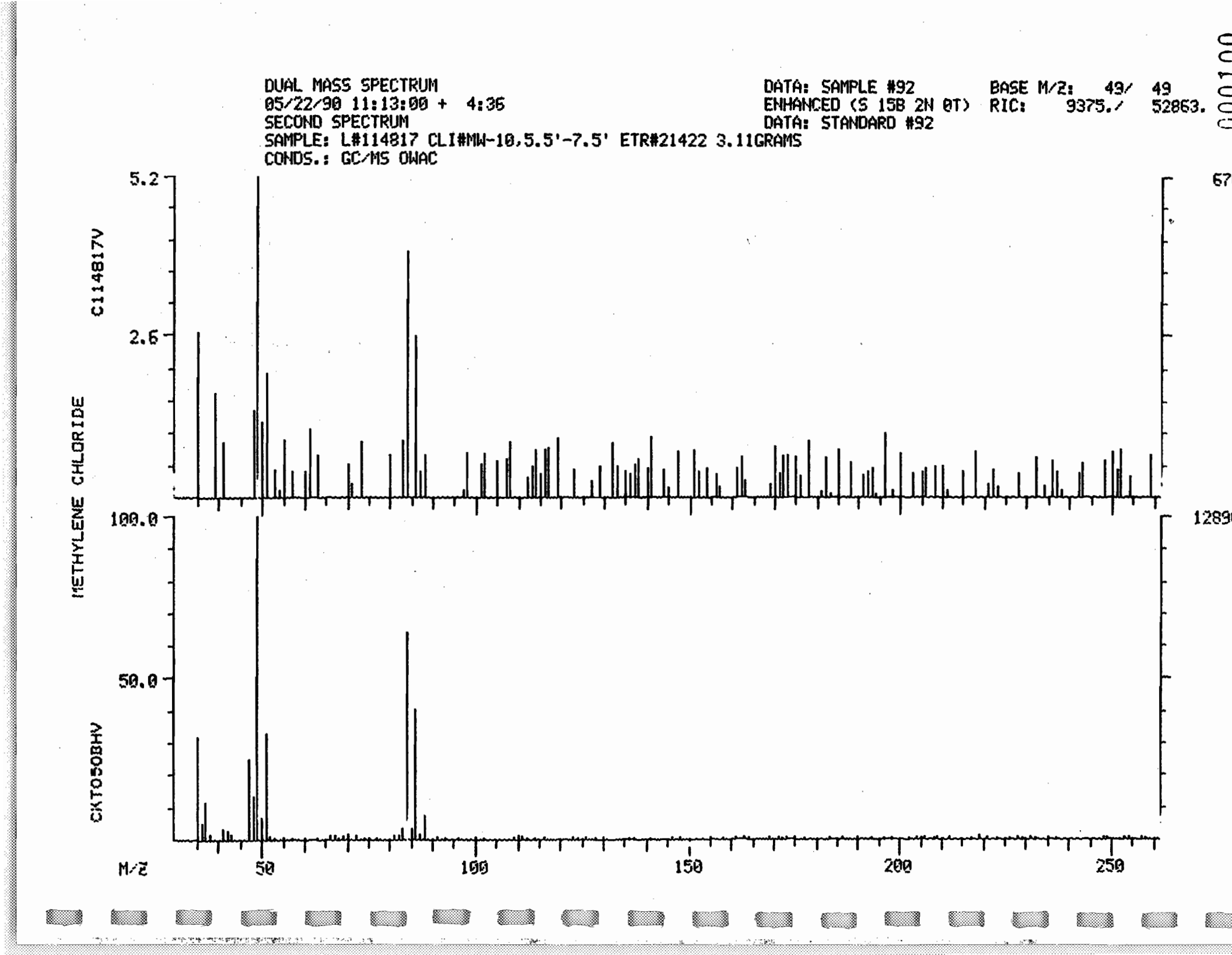


DUAL MASS SPECTRUM
05/22/90 11:13:00 + 4:36
SAMPLE: L#114817 CLI#MW-10,5.5'-7.5' ETR#21422 3.11GRAMS
CONDS.: GC/MS OWAC
ENHANCED (S 15B 2N 0T)

DATA: C114817V #92
CALI: C114817V #2

BASE M/Z: 49/ 49
RIC: 10111./ 21503.




DUAL MASS SPECTRUM
05/22/90 11:13:00 + 4:36
SECOND SPECTRUM
SAMPLE: L#114817 CLI#MW-10,5.5'-7.5' ETR#21422 3.11GRAMS
CONDS.: GC/MS OWAC
DATA: SAMPLE #92
ENHANCED (S 15B 2N 0T)
DATA: STANDARD #92
BASE M/Z: 49/ 49
RIC: 9375./ 52863.
C114817V
METHYLENE CHLORIDE
CKT050BHV
5.2
2.6
100.0
50.0
M/Z
50
100
150
200
250

C114818V 2

Sample: L#114818 CLI#MW-10,20-22' ETR#21422 3.11G
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114818 Client ID: MW-10,20-22' ETR Number: 21422 Submitted by: ADIENV
Weight: 3.110 g

05/22/90 1546
OWAC -- CMS

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
2	50	40	2:00	1	0.248	A BB	304.	0.850 PPB		2	CHLOROMETHANE
3	94	49	2:27	1	0.304	A BB	432.	1.052 PPB		3	BROMOMETHANE
4	62	57	2:51	1	0.354	A BB	628.	1.761 PPB		4	VINYL CHLORIDE
5	64	69	3:27	1	0.429	A BB	279.	1.013 PPB		5	CHLOROETHANE
6	84	93	4:39	1	0.578	A BB	1957.	3.704 PPB		6	METHYLENE CHLORIDE
7	43	114	5:42	1	0.708	A BB	1107.	6.799 PPB		7	ACETONE
8	NOT FOUND									8	ACROLEIN
9	NOT FOUND									9	ACRYLONITRILE
10	76	128	6:24	1	0.795	A BB	568.	0.465 PPB		10	CARBON DISULFIDE
11	NOT FOUND									11	TRICHLOROFLUOROMETHANE
12	NOT FOUND									12	1,1-DICHLOROETHENE
14	NOT FOUND									14	1,1-DICHLOROETHANE
15	NOT FOUND									15	TETRAHYDROFURAN
16	NOT FOUND									16	1,2-DICHLOROETHENE (TOTAL)
17	NOT FOUND									17	CHLOROFORM
18	NOT FOUND									18	1,2-DICHLOROETHANE
20	NOT FOUND									20	2-BUTANONE
21	NOT FOUND									21	FREON TF
22	NOT FOUND									22	1,1,1-TRICHLOROETHANE
23	NOT FOUND									23	CARBON TETRACHLORIDE
24	NOT FOUND									24	VINYL ACETATE
25	NOT FOUND									25	BROMODICHLOROMETHANE
26	NOT FOUND									26	1,2-DICHLOROPROPANE
27	NOT FOUND									27	CIS-1,3-DICHLOROPROPENE
28	NOT FOUND									28	TRICHLOROETHENE
29	NOT FOUND									29	DIBROMOCHLOROMETHANE
30	NOT FOUND									30	METHYLCYCLOHEXANE
31	NOT FOUND									31	1,1,2-TRICHLOROETHANE
32	78	323	16:09	13	0.866	A BB	70.	0.041 PPB		32	BENZENE
33	NOT FOUND									33	TRANS-1,3-DICHLOROPROPENE
34	NOT FOUND									34	2-CHLOROETHYLVINYLETHER
35	NOT FOUND									35	BROMOFORM
37	NOT FOUND									37	4-METHYL-2-PENTANONE
38	NOT FOUND									38	2-HEXANONE
39	NOT FOUND									39	1,1,2,2-TETRACHLOROETHANE
40	NOT FOUND									40	TETRACHLOROETHENE
41	NOT FOUND									41	BUTYL ACETATE
43	92	449	22:27	36	0.957	A BB	123.	0.125 PPB		43	TOLUENE
44	NOT FOUND									44	CHLOROBENZENE
45	NOT FOUND									45	ETHYLBENZENE
47	NOT FOUND									47	STYRENE
48	NOT FOUND									48	M-XYLENE
49	NOT FOUND									49	O- & P-XYLENE
50	NOT FOUND									50	O-DICHLOROBENZENE
51	NOT FOUND									51	CYCLOPENTANE
52	NOT FOUND									52	XYLENE (TOTAL)
53	NOT FOUND									53	2-PROPANOL

C114818V 3

Sample: L#114818 CLI#MW-10,20-22' ETR#21422 3.11G
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114818 Client ID: MW-10,20-22' ETR Number: 21422 Submitted by: ADIENV
Weight: 3.110 g

05/22/90 1546
OWAC -- CMS

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	0:54	-66*	0.112	2.21	0.85	55.00	0.013	0.853	0.02	2	CHLOROMETHANE
3	1:33	-54*	0.194	1.57	1.05	55.00	0.019	0.979	0.02	3	BROMOMETHANE
4	2:00	-51*	0.250	1.42	1.76	50.00	0.030	0.850	0.04	4	VINYL CHLORIDE
5	2:45	-42*	0.344	1.25	1.01	55.00	0.012	0.657	0.02	5	CHLOROETHANE
6	4:36	-3	0.575	1.00	3.70	50.00	0.093	1.260	0.07	6	METHYLENE CHLORIDE
7	5:36	-6	0.700	1.01	6.80	50.00	0.053	0.388	0.14	7	ACETONE
8	5:42		0.713							8	ACROLEIN
9	6:21		0.794							9	ACRYLONITRILE
10	6:15	-9	0.781	1.02	0.46	50.00	0.027	2.915	0.01	10	CARBON DISULFIDE
11	6:42		0.837							11	TRICHLOROFLUOROMETHANE
12	7:36		0.950							12	1,1-DICHLOROETHENE
14	8:48		1.100							14	1,1-DICHLOROETHANE
15	9:00		1.125							15	TETRAHYDROFURAN
16	9:42		1.212							16	1,2-DICHLOROETHENE (TOTAL)
17	10:06		1.262							17	CHLOROFORM
18	10:57		1.369							18	1,2-DICHLOROETHANE
20	11:09		1.394							20	2-BUTANONE
21	10:27		0.563							21	FREON TF
22	12:03		0.650							22	1,1,1-TRICHLOROETHANE
23	12:27		0.671							23	CARBON TETRACHLORIDE
24	13:03		0.704							24	VINYL ACETATE
25	13:06		0.706							25	BROMODICHLOROMETHANE
26	14:30		0.782							26	1,2-DICHLOROPROPANE
27	14:48		0.798							27	CIS-1,3-DICHLOROPROPENE
28	15:24		0.830							28	TRICHLOROETHENE
29	15:48		0.852							29	DIBROMOCHLOROMETHANE
30	18:12		0.981							30	METHYLCYCLOHEXANE
31	15:57		0.860							31	1,1,2-TRICHLOROETHANE
32	15:57	-12	0.860	1.01	0.04	50.00	0.001	0.948	0.00	32	BENZENE
33	16:06		0.868							33	TRANS-1,3-DICHLOROPROPENE
34	17:15		0.930							34	2-CHLOROETHYLVINYLETHER
35	18:27		0.995							35	BROMOFORM
37	19:12		0.822							37	4-METHYL-2-PENTANONE
38	20:48		0.891							38	2-HEXANONE
39	20:45		0.889							39	1,1,2,2-TETRACHLOROETHANE
40	21:00		0.899							40	TETRACHLOROETHENE
41	21:54		0.938							41	BUTYL ACETATE
43	22:24	-3	0.959	1.00	0.13	50.00	0.002	0.757	0.00	43	TOLUENE
44	23:27		1.004							44	CHLOROBENZENE
45	25:18		1.084							45	ETHYLBENZENE
47	28:27		1.218							47	STYRENE
48	28:45		1.231							48	M-XYLENE
49	29:24		1.259							49	O- & P-XYLENE
50	32:42		1.400							50	O-DICHLOROBENZENE
51	8:03		1.006							51	CYCLOPENTANE
52	28:45		1.231							52	XYLENE (TOTAL)
53	7:03		0.881							53	2-PROPANOL

C114818V$_{31}$

05/22/90 1546
OWAC -- CMS

Sample: L#114818 CLI#MW-10,20-22' ETR#21422 3.11G
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114818 Client ID: MW-10,20-22' ETR Number: 21422 Submitted by: ADIENV
Weight: 3.110 g

Summary of Tentatively Identified Compounds

Rank	Scan	Dec. Time	En.RIC Height	Est. Amount	Ref	Name
~~5~~	25	1.25	5815.	9.4	1	UNKNOWN
14	29	1.45	3587.	5.8	1	UNKNOWN
12	37	1.85	3867.	6.2	1	UNKNOWN
15	44	2.20	3355.	5.4	1	UNKNOWN
8	50	2.50	4319.	7.0	1	UNKNOWN
11	56	2.80	3951.	6.4	1	UNKNOWN
7	59	2.95	4327.	7.0	1	UNKNOWN
10	65	3.25	3987.	6.4	1	UNKNOWN
13	68	3.40	3787.	6.1	1	UNKNOWN
9	77	3.85	4183.	6.7	1	UNKNOWN
4	84	4.20	6143.	9.9	1	UNKNOWN
6	88	4.40	5583.	9.0	1	UNKNOWN
~~3~~	~~95~~	~~4.75~~	~~9039.~~	~~14.6~~	~~1~~	~~UNKNOWN~~ TOL #6
ISTD	162	8.10	31061.	50.0	1	BROMOCHLOROMETHANE
~~2~~	~~220~~	~~11.00~~	~~24927.~~	~~40.1~~	~~1~~	~~UNKNOWN~~ SS #19
ISTD	373	18.65	38005.	50.0	13	1,4-DIFLUOROBENZENE
~~1~~	~~446~~	~~22.30~~	~~50687.~~	~~61.9~~	~~36~~	~~UNKNOWN~~ SS #42
ISTD	469	23.45	40970.	50.0	36	CHLOROBENZENE-D5

background noise

ØTIC's for reporting
cp

PROCEDURE: TCA DIAGNOSTIC REPORT 5/22/90 16:24:55
DATA FILE: C114818V
REFERENCE: JTAB11
NAME LIST: UM INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: UMRET1

-- STANDARDS				PLUS UNKNOWNS				- LIST NAMES -
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
1	1	1	0	1	7	32	406	UMRET1/UMUNK1
2	2	1	0	1	3	1	35	UMRET2/UMUNK2
2	2	1	0	1	3	1	0	UMRET2/UMUNK3
3	3	1	0	1	3	1	78	UMRET3/UMUNK4
1	1	1	0	1	4	3	316	UMRET4/UMUNK5

52 COMPOUNDS PROCESSED, 14 FOUND

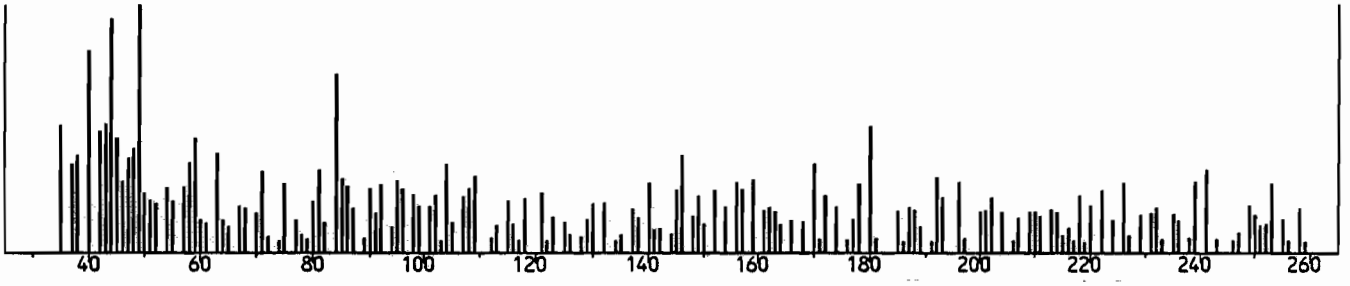
COMPOUND			SEARCH				SAT	CHRO			
NO	LIB	ENTRY	REF	PRED	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	UM	1	-158	160		1	975		128	161	-1	1
2	UM	2	-18	37	3	2	1000		50	40		1
3	UM	3	-30	47					94	49		1
4	UM	4	-40	56	-1	4	1000		62	57	2	1
5	UM	5	-55	69	1	4	987		64	69	-1	1
6	UM	6	-89	98	-5	1	985		84	93		1
7	UM	7	-113	119	-5	1	997		43	114		1
8	UM	8	-112	118					56			
9	UM	9	-125	129					53			
10	UM	10	-122	127	1	1	1000		76	128		1
11	UM	11	-134	137					101			
12	UM	12	-151	156					96			
13	UM	13	-144	145					45			
14	UM	14	-371	373		1	998		114	373		1
15	UM	15	-160	164					55			
16	UM	16	-176	180					53			
17	UM	17	-180	184					71			
18	UM	18	-193	196					96			
19	UM	19	-202	205					83			
20	UM	20	-219	220					62			
21	UM	21	-217	220		1	995		65	219	-1	1
22	UM	22	-224	227					72			
23	UM	23	-210	213					101			
24	UM	24	-242	245					97			
25	UM	25	-250	253					117			
26	UM	26	-262	266					43			
27	UM	27	-262	266					83			
28	UM	28	-291	294					98			
29	UM	29	-297	300					75			
30	UM	30	-309	312					130			
31	UM	31	-316	319					129			
32	UM	32	-365	367					98			
33	UM	33	-320	322					97			
34	UM	34	-320	322					78	323		1
35	UM	35	-322	324					75			
36	UM	36	-345	347					63			
37	UM	37	-369	371					173			
38	UM	38	-467	469	469	1	988		117	469		1
39	UM	39	-384	386					43			
40	UM	40	-416	418					43			
41	UM	41	-415	417					83			
42	UM	42	-421	423					164			
43	UM	43	-438	440					56			
44	UM	44	-444	446	447	1	1	991	98	447		1
45	UM	45	-448	450					92	449		1
46	UM	46	-469	472					112			
47	UM	47	-506	510					106			
48	UM	48	-545	546	547	-2	1	987	95	547		1
49	UM	49	-569	570	572	-1	3	353	104			
50	UM	50	-575	579	583	4	1	900	106			
51	UM	51	-589	594					106			
52	UM	52	-653	658					146			

Sample: L#114818 CLI#MW-10,20-22' ETR#21422 3.11G
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114818 Client ID: MW-10,20-22' ETR Number: 21422 Submitted by: ADIENV
Weight: 3.110 g

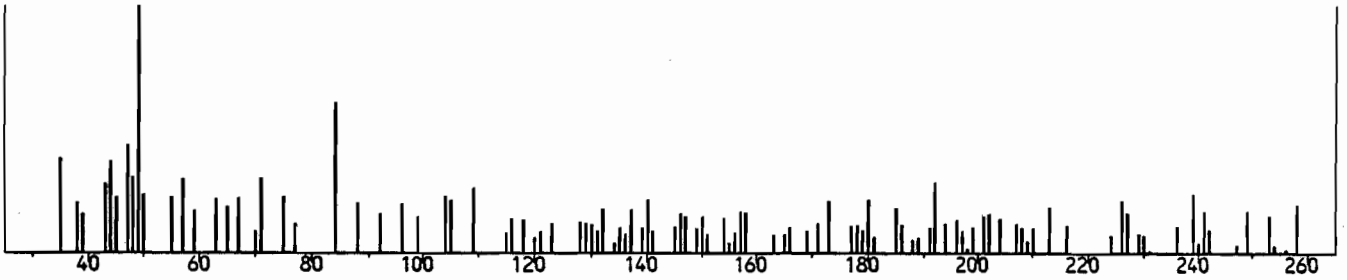
05/22/90 1546
OWAC -- CMS

LIBRARYUM#6 METHYLENE CHLORIDE

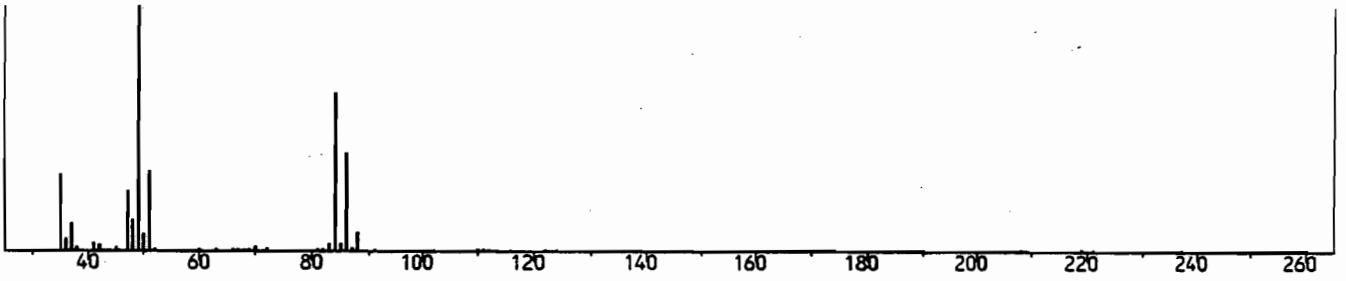
Unenhanced spectrum -- Scan # 93 Base m/z: 49 --- RIC: 22656. Max intensity: 688



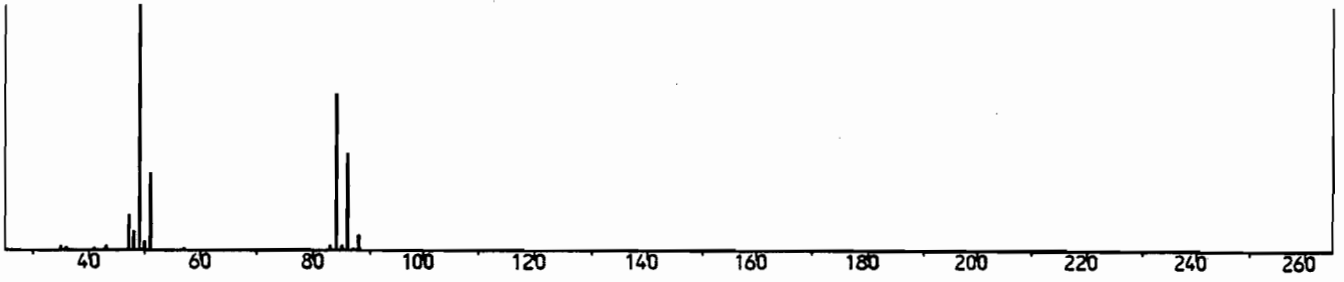
Enhanced (S 15B 2N 0T) -- Scan # 93 Base m/z: 49 --- RIC: 9296. Max intensity: 561



Enhanced CKT050BHV -- Scan # 92 Base m/z: 49 --- RIC: 52416. Max intensity: 12880



LIBRARYUM#6 CAS: 75-09-2 METHANE, DICHLORO- (CH2Cl2)

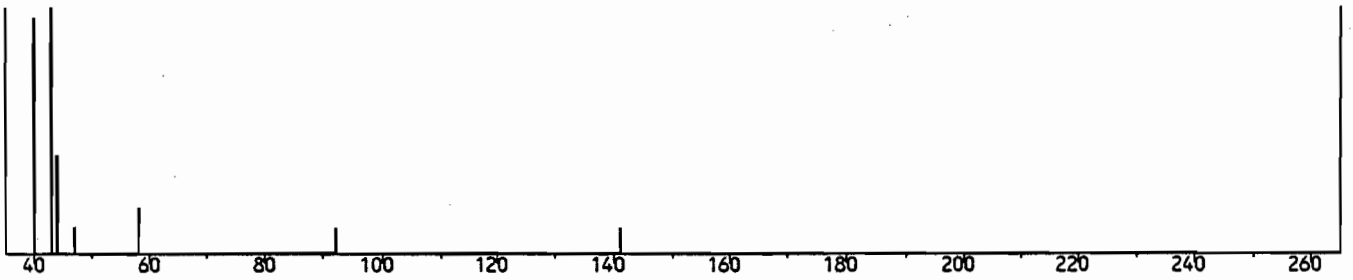


Sample: L#114818 CLI#MW-10,20-22' ETR#21422 3.11G
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114818 Client ID: MW-10,20-22' ETR Number: 21422 Submitted by: ADIENV
Weight: 3.110 g

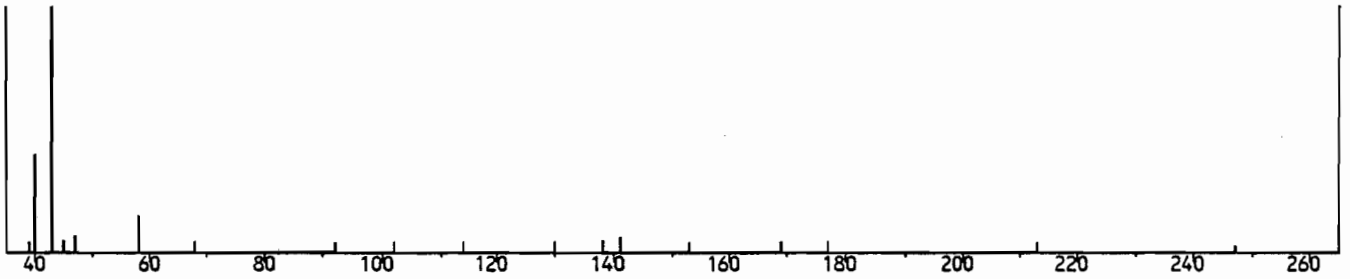
05/22/90 1546
OWAC -- CMS

LIBRARYUM#7 ACETONE

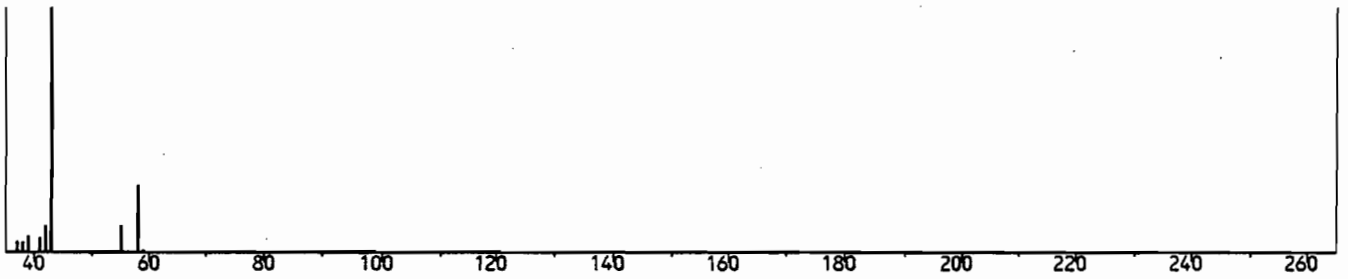
Unenhanced spectrum -- Scan # 114 Base m/z: 43 --- RIC: 898. Max intensity: 314



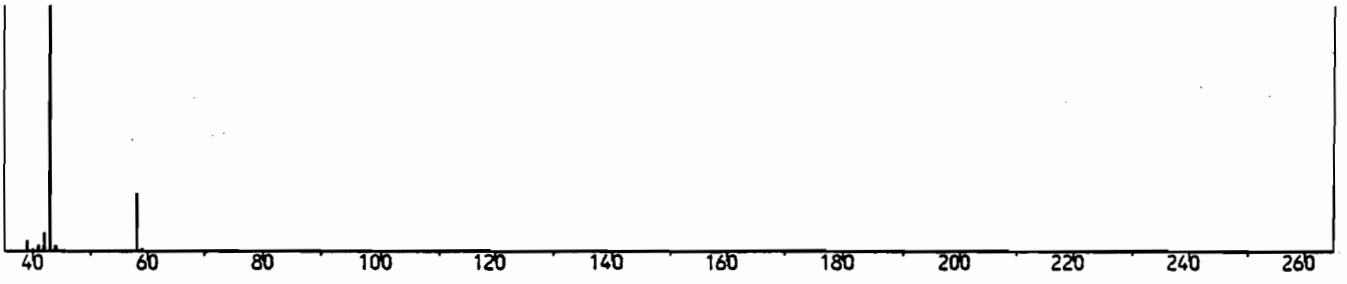
Enhanced (S 15B 2N 0T) -- Scan # 114 Base m/z: 43 --- RIC: 563. Max intensity: 254



Enhanced CKT050BHV -- Scan # 112 Base m/z: 43 --- RIC: 4496. Max intensity: 2592



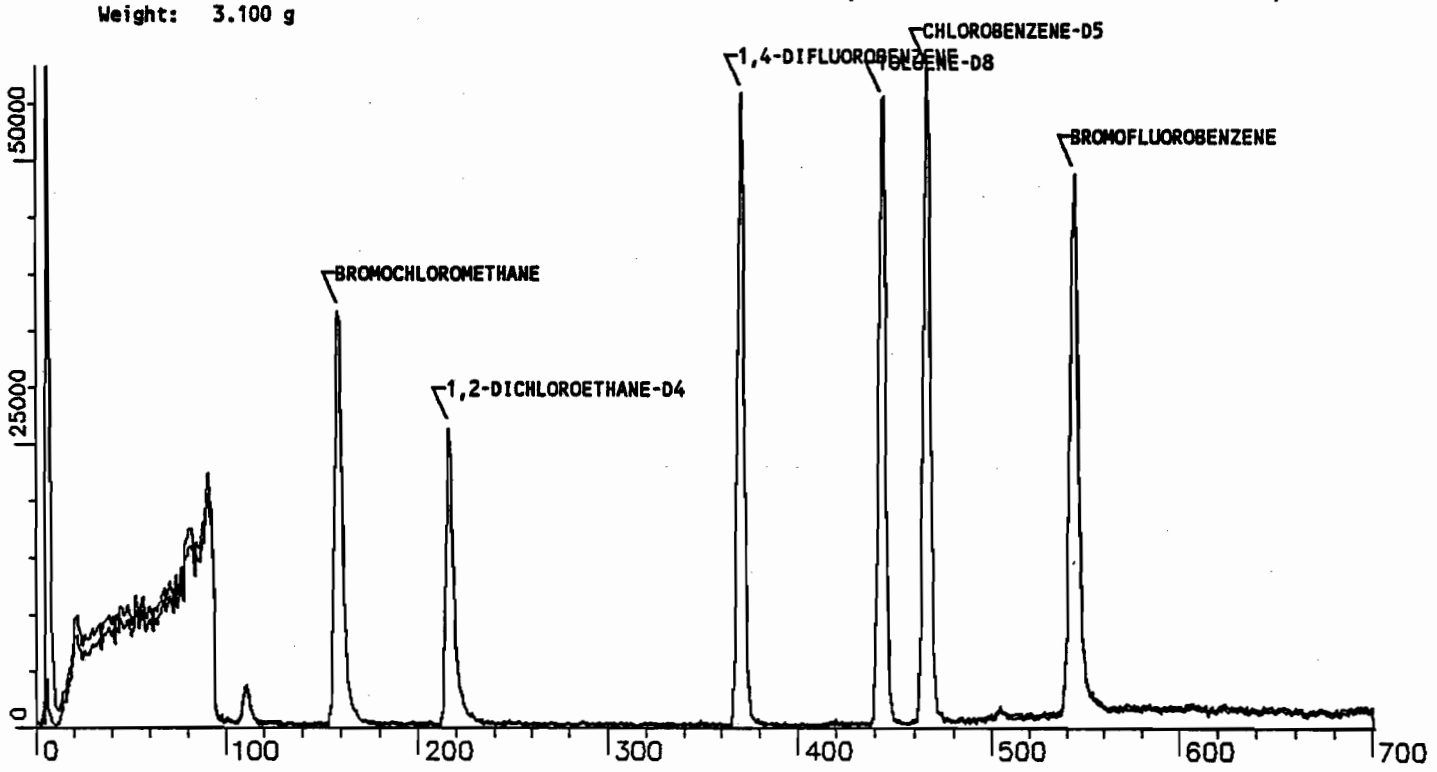
LIBRARYUM#7 CAS: 67-64-1 2-PROPANONE (C3H6O)



C114819V 1

Sample: L#114819 CLI#6,-4 05/15/90@1530 ETR#21422 3.10G
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114819 Client ID: 6,-4 ETR Number: 21422 Submitted by: ADIENV
Weight: 3.100 g

05/22/90 1209
OWAC -- CMP



No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
1	128	158	7:54	1	1.000	A BB	20421.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	370	18:30	13	1.000	A BB	88191.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	466	23:18	36	1.000	A BB	67084.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	216	10:48	1	1.367	A BB	36751.	46.849 PPB	93.7	19	1,2-DICHLOROETHANE-D4
42	98	443	22:09	36	0.951	A BB	75986.	47.705 PPB	95.4	42	TOLUENE-D8
46	95	544	27:12	36	1.167	A BB	40766.	55.317 PPB	110.6	46	BROMOFLUOROBENZENE

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
1	8:00	6	1.000	1.00	50.00	50.00	1.000	1.000	1.00	1	BROMOCHLOROMETHANE
13	18:33	3	1.000	1.00	50.00	50.00	1.000	1.000	1.00	13	1,4-DIFLUOROBENZENE
36	23:21	3	1.000	1.00	50.00	50.00	1.000	1.000	1.00	36	CHLOROBENZENE-D5
19	10:51	3	1.356	1.01	46.85	50.00	1.800	1.921	0.94	19	1,2-DICHLOROETHANE-D4
42	22:12	3	0.951	1.00	47.71	50.00	1.133	1.187	0.95	42	TOLUENE-D8
46	27:15	3	1.167	1.00	55.32	50.00	0.608	0.549	1.11	46	BROMOFLUOROBENZENE

CKT050BHV (05/22/90 6:26) RFs loaded on OWAC 5/22/90 8:11:40

C114819V 2

Sample: L#114819 CLI#6,-4 05/15/90@1530 ETR#21422 3.10G
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114819 Client ID: 6,-4 ETR Number: 21422 Submitted by: ADIENV
Weight: 3.100 g

05/22/90 1209
OWAC -- CMP

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
2	NOT FOUND									2	CHLOROMETHANE
3	94	41	2:03	1	0.259	A BB	67.	0.168 PPB		3	BROMOMETHANE
4	NOT FOUND									4	VINYL CHLORIDE
5	64	60	3:00	1	0.380	A BB	287.	0.772 PPB		5	CHLOROETHANE
6	84	91	4:33	1	0.576	A VB	2673.	5.196 PPB		6	METHYLENE CHLORIDE
7	43	111	5:33	1	0.703	A BB	9483.	59.817 PPB		7	ACETONE
8	NOT FOUND									8	ACROLEIN
9	NOT FOUND									9	ACRYLONITRILE
10	76	125	6:15	1	0.791	A BB	236.	0.198 PPB		10	CARBON DISULFIDE
11	NOT FOUND									11	TRICHLOROFLUOROMETHANE
12	NOT FOUND									12	1,1-DICHLOROETHENE
14	NOT FOUND									14	1,1-DICHLOROETHANE
15	NOT FOUND									15	TETRAHYDROFURAN
16	NOT FOUND									16	1,2-DICHLOROETHENE (TOTAL)
17	NOT FOUND									17	CHLOROFORM
18	NOT FOUND									18	1,2-DICHLOROETHANE
20	72	223	11:09	1	1.411	A*BB	276.	5.120 PPB	Cp	20	2-BUTANONE
21	NOT FOUND									21	FREON TF
22	NOT FOUND									22	1,1,1-TRICHLOROETHANE
23	NOT FOUND									23	CARBON TETRACHLORIDE
24	NOT FOUND									24	VINYL ACETATE
25	NOT FOUND									25	BROMODICHLOROMETHANE
26	NOT FOUND									26	1,2-DICHLOROPROPANE
27	NOT FOUND									27	CIS-1,3-DICHLOROPROPENE
28	NOT FOUND									28	TRICHLOROETHENE
29	NOT FOUND									29	DIBROMOCHLOROMETHANE
30	NOT FOUND									30	METHYLCYCLOHEXANE
31	NOT FOUND									31	1,1,2-TRICHLOROETHANE
32	78	320	16:00	13	0.865	A BB	118.	0.071 PPB		32	BENZENE
33	NOT FOUND									33	TRANS-1,3-DICHLOROPROPENE
34	NOT FOUND									34	2-CHLOROETHYLVINYLETHER
35	NOT FOUND									35	BROMOFORM
37	NOT FOUND									37	4-METHYL-2-PENTANONE
38	43	417	20:51	36	0.895	A BB	350.	0.542 PPB		38	2-HEXANONE
39	NOT FOUND									39	1,1,2,2-TETRACHLOROETHANE
40	NOT FOUND									40	TETRACHLOROETHENE
41	NOT FOUND									41	BUTYL ACETATE
43	92	448	22:24	36	0.961	A BB	519.	0.511 PPB		43	TOLUENE
44	NOT FOUND									44	CHLOROBENZENE
45	106	505	25:15	36	1.084	A BB	409.	0.856 PPB		45	ETHYLBENZENE
47	NOT FOUND									47	STYRENE
48	NOT FOUND									48	M-XYLENE
49	NOT FOUND									49	O- & P-XYLENE
50	NOT FOUND									50	O-DICHLOROBENZENE
51	NOT FOUND									51	CYCLOPENTANE
52	NOT FOUND									52	XYLENE (TOTAL)
53	NOT FOUND									53	2-PROPANOL

C114819V 3

Sample: L#114819 CLI#6,-4 05/15/90@1530 ETR#21422 3.10G
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114819 Client ID: 6,-4 ETR Number: 21422 Submitted by: ADIENV
Weight: 3.100 g

05/22/90 1209
OWAC -- CMP

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	0:54		0.112							2	CHLOROMETHANE
3	1:33	-30*	0.194	1.34	0.17	55.00	0.003	0.979	0.00	3	BROMOMETHANE
4	2:00		0.250							4	VINYL CHLORIDE
5	2:45	-15	0.344	1.10	0.77	55.00	0.009	0.657	0.01	5	CHLOROETHANE
6	4:36	3	0.575	1.00	5.20	50.00	0.131	1.260	0.10	6	METHYLENE CHLORIDE
7	5:36	3	0.700	1.00	59.82	50.00	0.464	0.388	1.20	7	ACETONE
8	5:42		0.713							8	ACROLEIN
9	6:21		0.794							9	ACRYLONITRILE
10	6:15	0	0.781	1.01	0.20	50.00	0.012	2.915	0.00	10	CARBON DISULFIDE
11	6:42		0.837							11	TRICHLOROFLUOROMETHANE
12	7:36		0.950							12	1,1-DICHLOROETHENE
14	8:48		1.100							14	1,1-DICHLOROETHANE
15	9:00		1.125							15	TETRAHYDROFURAN
16	9:42		1.212							16	1,2-DICHLOROETHENE (TOTAL)
17	10:06		1.262							17	CHLOROFORM
18	10:57		1.369							18	1,2-DICHLOROETHANE
20	11:09	0	1.394	1.01	5.12	50.00	0.014	0.132	0.10	20	2-BUTANONE
21	10:27		0.563							21	FREON TF
22	12:03		0.650							22	1,1,1-TRICHLOROETHANE
23	12:27		0.671							23	CARBON TETRACHLORIDE
24	13:03		0.704							24	VINYL ACETATE
25	13:06		0.706							25	BROMODICHLOROMETHANE
26	14:30		0.782							26	1,2-DICHLOROPROPANE
27	14:48		0.798							27	CIS-1,3-DICHLOROPROPENE
28	15:24		0.830							28	TRICHLOROETHENE
29	15:48		0.852							29	DIBROMOCHLOROMETHANE
30	18:12		0.981							30	METHYLCYCLOHEXANE
31	15:57		0.860							31	1,1,2-TRICHLOROETHANE
32	15:57	-3	0.860	1.01	0.07	50.00	0.001	0.948	0.00	32	BENZENE
33	16:06		0.868							33	TRANS-1,3-DICHLOROPROPENE
34	17:15		0.930							34	2-CHLOROETHYLVINYLETHER
35	18:27		0.995							35	BROMOFORM
37	19:12		0.822							37	4-METHYL-2-PENTANONE
38	20:48	-3	0.891	1.00	0.54	50.00	0.005	0.481	0.01	38	2-HEXANONE
39	20:45		0.889							39	1,1,2,2-TETRACHLOROETHANE
40	21:00		0.899							40	TETRACHLOROETHENE
41	21:54		0.938							41	BUTYL ACETATE
43	22:24	0	0.959	1.00	0.51	50.00	0.008	0.757	0.01	43	TOLUENE
44	23:27		1.004							44	CHLOROBENZENE
45	25:18	-3	1.084	1.00	0.86	50.00	0.006	0.356	0.02	45	ETHYLBENZENE
47	28:27		1.218							47	STYRENE
48	28:45		1.231							48	M-XYLENE
49	29:24		1.259							49	O- & P-XYLENE
50	32:42		1.400							50	O-DICHLOROBENZENE
51	8:03		1.006							51	CYCLOPENTANE
52	28:45		1.231							52	XYLENE (TOTAL)
53	7:03		0.881							53	2-PROPANOL

C114819V$_{27}$

Sample: L#114819 CLI#6,-4 05/15/90@1530 ETR#21422 3.10G
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114819 Client ID: 6,-4 ETR Number: 21422 Submitted by: ADIENV
Weight: 3.100 g

05/22/90 1209
OWAC -- CMP

Summary of Tentatively Identified Compounds

Rank	Scan	Dec. Time	En.RIC Height	Est. Amount	Ref	Name
~~1~~	~~6~~	~~0.30~~	~~91391.~~	~~152.1~~	~~1~~	~~UNKNOWN~~
4	22	1.10	4823.	8.0	1	UNKNOWN
13	39	1.95	3419.	5.7	1	UNKNOWN
11	45	2.25	3495.	5.8	1	UNKNOWN
10	49	2.45	3515.	5.8	1	UNKNOWN
5	53	2.65	4167.	6.9	1	UNKNOWN
7	57	2.85	4043.	6.7	1	UNKNOWN
12	60	3.00	3475.	5.8	1	UNKNOWN
8	68	3.40	3903.	6.5	1	UNKNOWN
6	71	3.55	4083.	6.8	1	UNKNOWN
9	74	3.70	3639.	6.1	1	UNKNOWN
~~3~~	~~82~~	~~4.10~~	~~5591.~~	~~9.3~~	~~1~~	~~UNKNOWN~~
ISTD	158	7.90	30048.	50.0	1	BROMOCHLOROMETHANE
ISTD	370	18.50	38400.	50.0	13	1,4-DIFLUOROBENZENE
~~2~~	~~444~~	~~22.20~~	~~52415.~~	~~60.9~~	~~36~~	~~UNKNOWN~~ SS#42
ISTD	466	23.30	43012.	50.0	36	CHLOROBENZENE-D5

background noise

Ø TICs for reporting
cip

Aquatec, Inc. (CIP) 13-JUN-90 07:34

PROCEDURE: TCA DIAGNOSTIC REPORT 5/22/90 12:32.16
DATA FILE: C114819V
REFERENCE: UTAB11
NME LIST: UM INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: UMRET1

STANDARDS PROC	STANDARDS USED	STANDARDS POSS	STANDARDS RMS	PLUS UNKNOWNS PROC	PLUS UNKNOWNS USED	PLUS UNKNOWNS POSS	PLUS UNKNOWNS RMS	LIST NAMES STANDARD/UNKNOWN
1	1	1	0	[illegible]	[illegible]	2	974	UMRET1/UMUNK1
2	2	1	0	[illegible]	[illegible]	2	79	UMRET2/UMUNK2
2	2	1	0	[illegible]	[illegible]	1	0	UMRET2/UMUNK3
2	2	1	0	[illegible]	[illegible]	1	0	UMRET3/UMUNK4
1	1	1	0	[illegible]	[illegible]	2	126	UMRET4/UMUNK5

52 COMPOUNDS PROCESSED, 18 FOUND

COMPOUND NO	LIB	ENTRY	REF	PRED	SEARCH RT	SEARCH DELTA	SEARCH PEAKS	SAT FIT	SAT PEAKS	CHRO M/Z	CHRO TOP	CHRO DELTA	CHRO PEAKS
1	UM	1	-158	158	158		1	977		128	158		1
2	UM	2	-18	18	41	-9	1	987		50			
3	UM	3	-30	30						94	41		1
4	UM	4	-40	40	70	18	1	976		62			
5	UM	5	-55	55	60	-1	2	979		64	60		1
6	UM	6	-89	89	91	-4	1	980		84	91		1
7	UM	7	-113	116	111	-5	1	992		43	111		1
8	UM	8	-112	116						56			
9	UM	9	-125	126						53			
10	UM	10	-122	124	125	1	1	1000		76	125		1
11	UM	11	-134	134						101			
12	UM	12	-151	149						96			
13	UM	53	-144	143						45			
14	UM	13	-371	370	370		1	997		114	370		1
15	UM	51	-160	160						55			
16	UM	14	-176	175						63			
17	UM	15	-180	179						71			
18	UM	16	-193	192						96			
19	UM	17	-202	201						83			
20	UM	18	-219	218	217	-1	1	910		62			
21	UM	19	-217	216	216		1	998		65	216		1
22	UM	20	-224	223	223		2	942		72	223		2
23	UM	21	-210	209						101			
24	UM	22	-242	241						97			
25	UM	23	-250	249						117			
26	UM	24	-262	261						43			
27	UM	25	-262	261						83			
28	UM	26	-291	290						63			
29	UM	27	-297	296						75			
30	UM	28	-309	308						130			
31	UM	29	-316	315						129			
32	UM	30	-365	364						98			
33	UM	31	-320	319						97			
34	UM	32	-320	319						78	320		1
35	UM	33	-322	321						75			
36	UM	34	-345	344						63			
37	UM	35	-369	368						173			
38	UM	36	-467	466	466		1	984		117	466		1
39	UM	37	-384	383						43			
40	UM	38	-416	415						43	417		1
41	UM	39	-415	414						83			
42	UM	40	-421	420						164			
43	UM	41	-438	437						56			
44	UM	42	-444	443	443		1	989		98	443		1
45	UM	43	-448	447	447		1	982		92	448	1	1
46	UM	44	-469	468						112			
47	UM	45	-506	505	505		1	900		106	505		1
48	UM	46	-545	544	544		1	993		95	544		1
49	UM	47	-569	568	568	-2	2	219		104			
50	UM	48	-575	574	575	1	1	929		106			
51	UM	49	-589	588						106			
52	UM	50	-653	652						146			

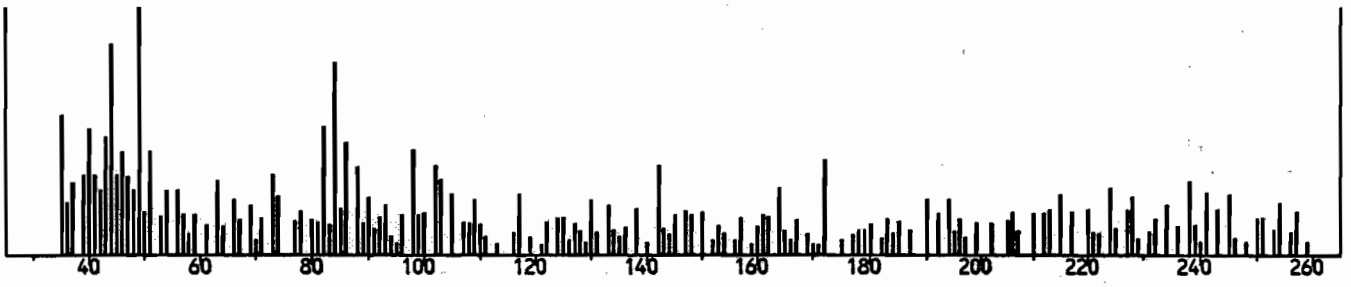
C114819V 6

Sample: L#114819 CLI#6,-4 05/15/9001530 ETR#21422 3.10G
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114819 Client ID: 6,-4 ETR Number: 21422 Submitted by: ADIENV
Weight: 3.100 g

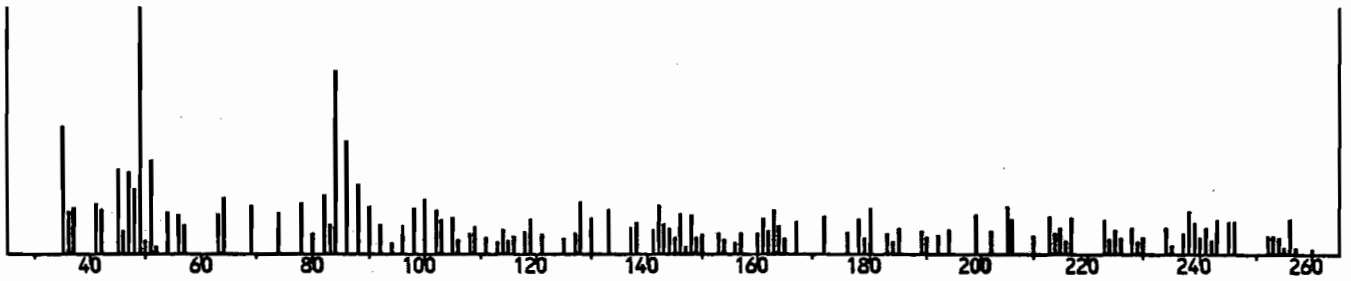
05/22/90 1209
OWAC -- CMP

LIBRARYUM#6 METHYLENE CHLORIDE

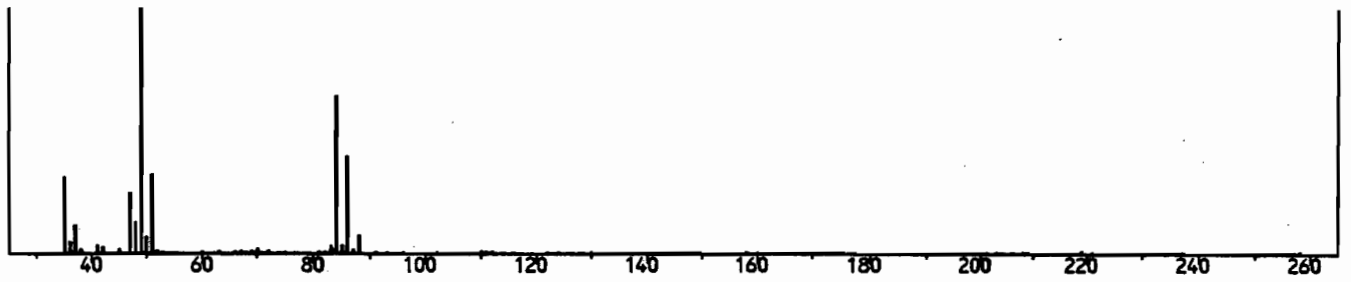
Unenhanced spectrum -- Scan # 91 Base m/z: 49 --- RIC: 22400. Max intensity: 776



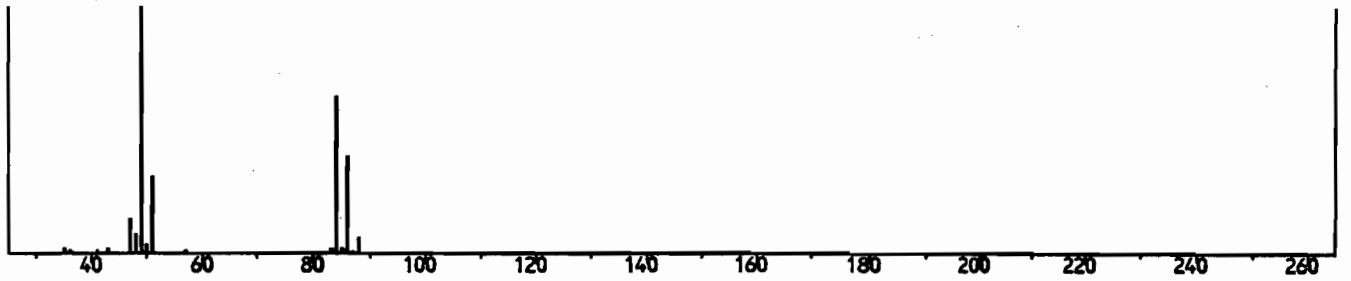
Enhanced (S 15B 2N 0T) -- Scan # 91 Base m/z: 49 --- RIC: 11520. Max intensity: 684



Enhanced CKT050BHV -- Scan # 92 Base m/z: 49 --- RIC: 52416. Max intensity: 12880



LIBRARYUM#6 CAS: 75-09-2 METHANE, DICHLORO- (CH2Cl2)



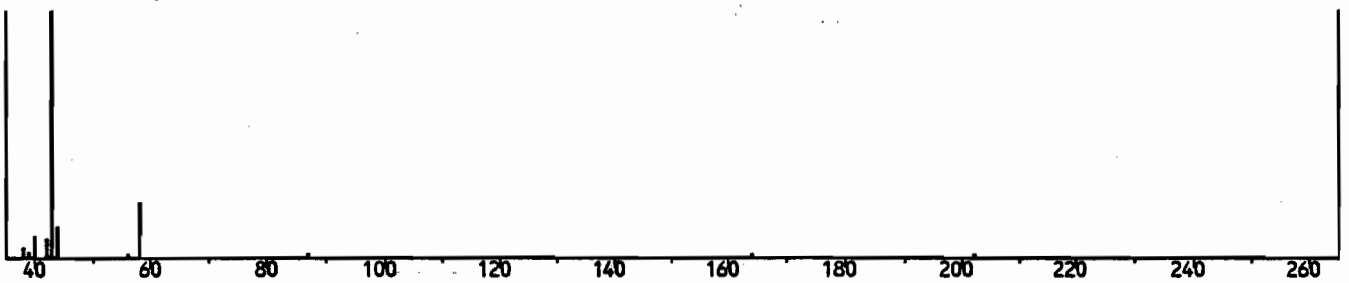
C114819V 7

Sample: L#114819 CLI#6,-4 05/15/90@1530 ETR#21422 3.10G
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114819 Client ID: 6,-4 ETR Number: 21422 Submitted by: ADIENV
Weight: 3.100 g

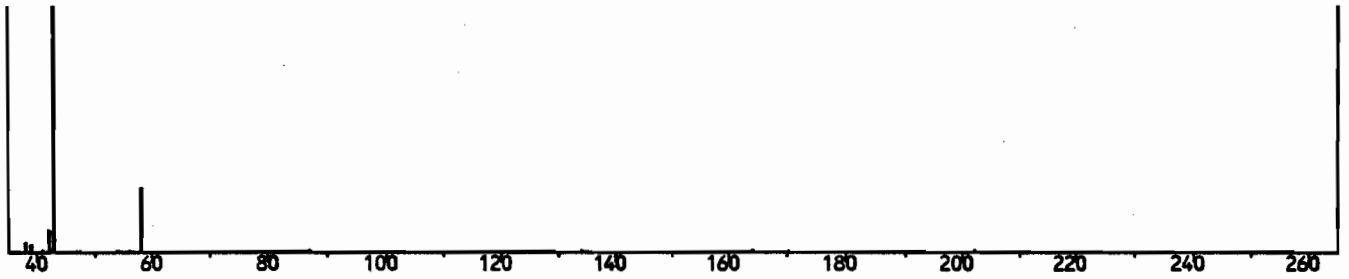
05/22/90 1209
OWAC -- CMP

LIBRARYUM#7 ACETONE

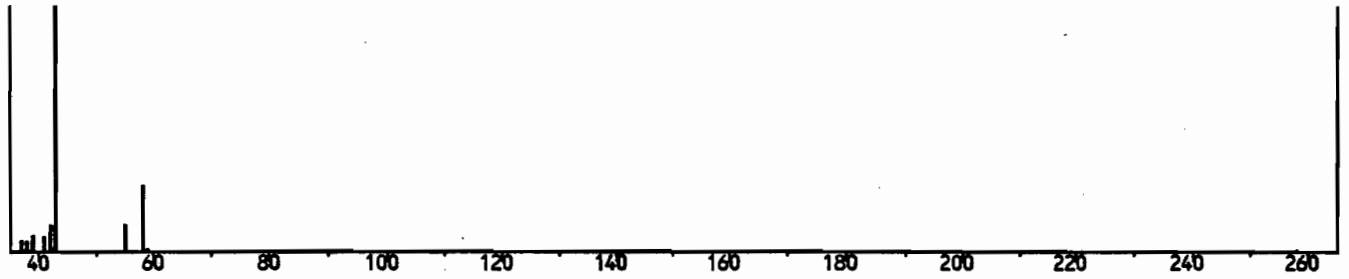
Unenhanced spectrum -- Scan # 111 Base m/z: 43 --- RIC: 3824. Max intensity: 2344



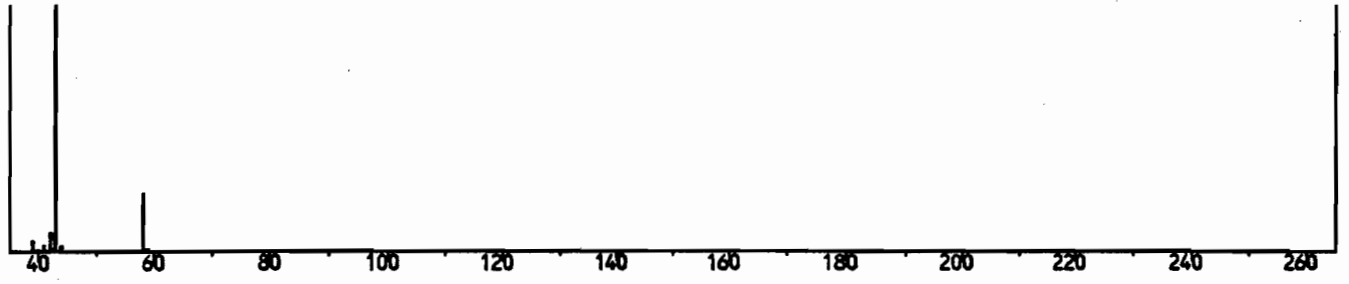
Enhanced (S 15B 2N 0T) -- Scan # 111 Base m/z: 43 --- RIC: 3252. Max intensity: 2180



Enhanced CKT050BHV -- Scan # 112 Base m/z: 43 --- RIC: 4496. Max intensity: 2592



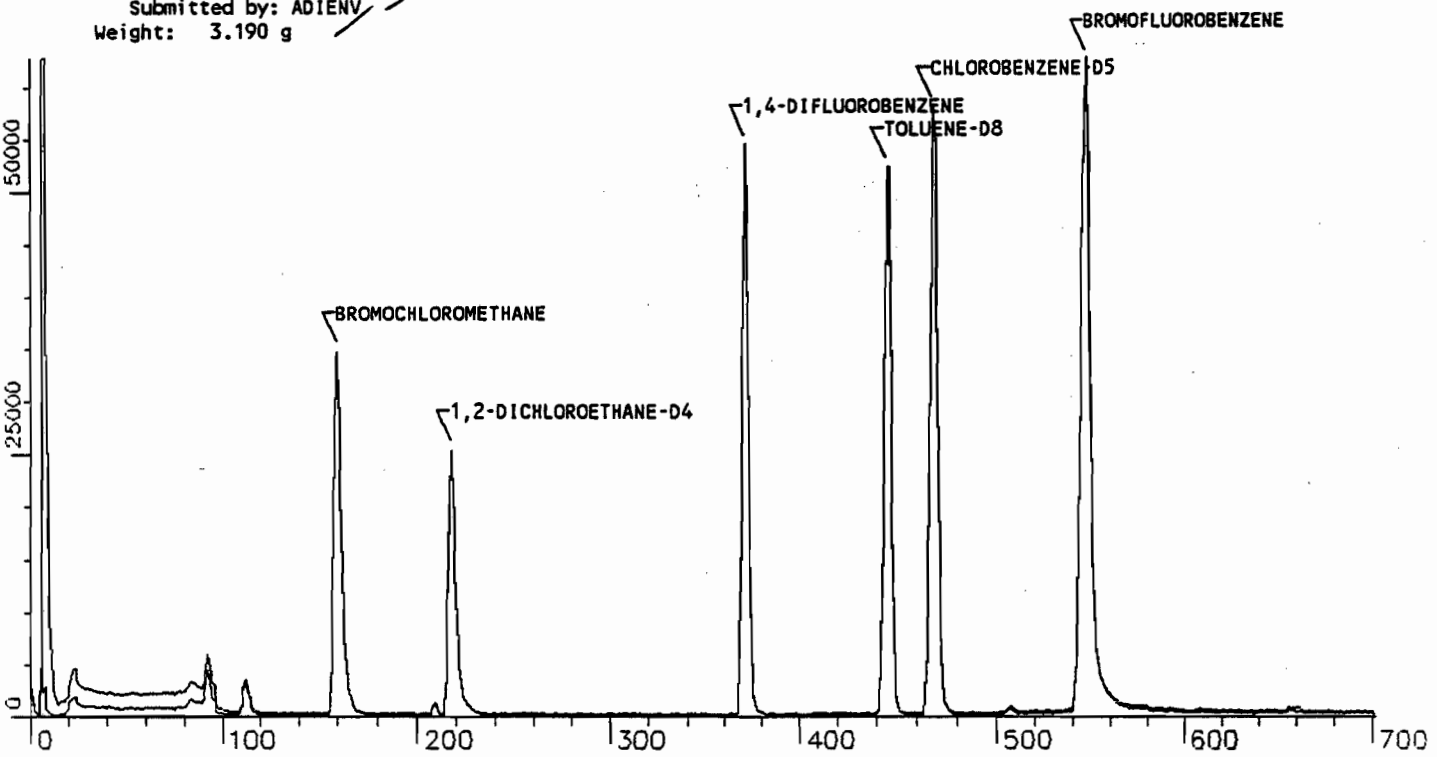
LIBRARYUM#7 CAS: 67-64-1 2-PROPANONE (C3H6O)



C114820I2V 1

Sample: L#114820 CLI#7,-3,05/15/90@1500 ETR#21422
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114820 Client ID: 7,-3,05/15/90@1500 ETR Number: 21422
Submitted by: ADIENV
Weight: 3.190 g

05/24/90 0703
OWAC -- KLK



No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
1	128	160	8:00	1	1.000	A BB	18245.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	371	18:33	13	1.000	A BB	84706	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	468	23:24	36	1.000	A BB	65705.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	218	10:54	1	1.362	A BB	40458.	50.247 PPB	100.5	19	1,2-DICHLOROETHANE-D4
42	98	445	22:15	36	0.951	A BB	74885.	52.376 PPB	104.8	42	TOLUENE-D8
46	95	547	27:21	36	1.169	A BB	53220.	47.179 PPB	94.4	46	BROMOFLUOROBENZENE

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
1	8:00	0	1.000	1.00	50.00	50.00	1.000	1.000	1.00	1	BROMOCHLOROMETHANE
13	18:36	3	1.000	1.00	50.00	50.00	1.000	1.000	1.00	13	1,4-DIFLUOROBENZENE
36	23:24	0	1.000	1.00	50.00	50.00	1.000	1.000	1.00	36	CHLOROBENZENE-D5
19	10:54	0	1.362	1.00	50.25	50.00	2.217	2.207	1.00	19	1,2-DICHLOROETHANE-D4
42	22:18	3	0.953	1.00	52.38	50.00	1.140	1.088	1.05	42	TOLUENE-D8
46	27:21	0	1.169	1.00	47.18	50.00	0.810	0.858	0.94	46	BROMOFLUOROBENZENE

CKV050AHV (05/24/90 4:51) RFs loaded on OWAC 5/24/90 5:47:24

C114820I2V 2

Sample: L#114820 CLI#7,-3,05/15/90@1500 ETR#21422 05/24/90 0703
Conditions: GC/MS OWAC OWAC -- KLK
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114820 Client ID: 7,-3,05/15/90@1500 ETR Number: 21422
Submitted by: ADIENV
Weight: 3.190 g

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
2	NOT FOUND									2	CHLOROMETHANE
3	NOT FOUND									3	BROMOMETHANE
4	NOT FOUND									4	VINYL CHLORIDE
5	NOT FOUND									5	CHLOROETHANE
6	84	92	4:36	1	0.575	A BB	1836.	2.746 PPB		6	METHYLENE CHLORIDE
7	43	112	5:36	1	0.700	A BB	9394.	55.808 PPB		7	ACETONE
8	NOT FOUND									8	ACROLEIN
9	NOT FOUND									9	ACRYLONITRILE
10	NOT FOUND									10	CARBON DISULFIDE
11	NOT FOUND									11	TRICHLOROFLUOROMETHANE
12	NOT FOUND									12	1,1-DICHLOROETHENE
14	NOT FOUND									14	1,1-DICHLOROETHANE
15	NOT FOUND									15	TETRAHYDROFURAN
16	NOT FOUND									16	1,2-DICHLOROETHENE (TOTAL)
17	NOT FOUND									17	CHLOROFORM
18	NOT FOUND									18	1,2-DICHLOROETHANE
20	NOT FOUND									20	2-BUTANONE
~~21~~	~~101~~	~~209~~	~~10:27~~	~~13~~	~~0.563~~	~~A BB~~	~~882.~~	~~1.227 PPB~~	Cp	21	FREON TF
22	NOT FOUND									22	1,1,1-TRICHLOROETHANE
23	NOT FOUND									23	CARBON TETRACHLORIDE
24	NOT FOUND									24	VINYL ACETATE
25	NOT FOUND									25	BROMODICHLOROMETHANE
26	NOT FOUND									26	1,2-DICHLOROPROPANE
27	NOT FOUND									27	CIS-1,3-DICHLOROPROPENE
28	NOT FOUND									28	TRICHLOROETHENE
29	NOT FOUND									29	DIBROMOCHLOROMETHANE
30	NOT FOUND									30	METHYLCYCLOHEXANE
31	NOT FOUND									31	1,1,2-TRICHLOROETHANE
32	NOT FOUND									32	BENZENE
33	NOT FOUND									33	TRANS-1,3-DICHLOROPROPENE
34	NOT FOUND									34	2-CHLOROETHYLVINYLETHER
35	NOT FOUND									35	BROMOFORM
37	NOT FOUND									37	4-METHYL-2-PENTANONE
38	NOT FOUND									38	2-HEXANONE
39	83	~~417~~	~~20:51~~	~~36~~	~~0.891~~	~~A BB~~	~~135.~~	~~0.128 PPB~~		39	1,1,2,2-TETRACHLOROETHANE
40	NOT FOUND									40	TETRACHLOROETHENE
41	NOT FOUND									41	BUTYL ACETATE
43	92	~~449~~	~~22:27~~	~~36~~	~~0.959~~	~~A BB~~	~~205.~~	~~0.250 PPB~~		43	TOLUENE
44	112	~~470~~	~~23:38~~	~~36~~	~~1.004~~	~~A BB~~	~~125.~~	~~0.100 PPB~~		44	CHLOROBENZENE
45	NOT FOUND									45	ETHYLBENZENE
47	104	~~573~~	~~28:39~~	~~36~~	~~1.224~~	~~A BB~~	~~83.~~	~~0.074 PPB~~		47	STYRENE
48	NOT FOUND									48	M-XYLENE
49	NOT FOUND									49	O- & P-XYLENE
~~50~~	~~146~~	~~657~~	~~32:51~~	~~36~~	~~1.404~~	~~A BB~~	~~1212.~~	~~1.000 PPB~~	Cp	50	O-DICHLOROBENZENE
51	NOT FOUND									51	CYCLOPENTANE
52	NOT FOUND									52	XYLENE (TOTAL)
53	NOT FOUND									53	2-PROPANOL

Sample: L#114820 CLI#7,-3,05/15/90@1500 ETR#21422 05/24/90 0703
Conditions: GC/MS OWAC OWAC -- KLK
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114820 Client ID: 7,-3,05/15/90@1500 ETR Number: 21422
Submitted by: ADIENV
Weight: 3.190 g

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	0:57		0.119							2	CHLOROMETHANE
3	1:33		0.194							3	BROMOMETHANE
4	2:03		0.256							4	VINYL CHLORIDE
5	2:45		0.344							5	CHLOROETHANE
6	4:33	-3	0.569	1.01	2.75	50.00	0.101	1.832	0.05	6	METHYLENE CHLORIDE
7	5:36	0	0.700	1.00	55.81	50.00	0.515	0.461	1.12	7	ACETONE
8	5:39		0.706							8	ACROLEIN
9	6:18		0.788							9	ACRYLONITRILE
10	6:15		0.781							10	CARBON DISULFIDE
11	6:45		0.844							11	TRICHLOROFLUOROMETHANE
12	7:36		0.950							12	1,1-DICHLOROETHENE
14	8:51		1.106							14	1,1-DICHLOROETHANE
15	9:03		1.131							15	TETRAHYDROFURAN
16	9:45		1.219							16	1,2-DICHLOROETHENE (TOTAL)
17	10:09		1.269							17	CHLOROFORM
18	11:00		1.375							18	1,2-DICHLOROETHANE
20	11:15		1.406							20	2-BUTANONE
21	10:30	3	0.565	1.00	1.23	50.00	0.010	0.424	0.02	21	FREON TF
22	12:09		0.653							22	1,1,1-TRICHLOROETHANE
23	12:30		0.672							23	CARBON TETRACHLORIDE
24	13:06		0.704							24	VINYL ACETATE
25	13:09		0.707							25	BROMODICHLOROMETHANE
26	14:33		0.782							26	1,2-DICHLOROPROPANE
27	14:54		0.801							27	CIS-1,3-DICHLOROPROPENE
28	15:30		0.833							28	TRICHLOROETHENE
29	15:51		0.852							29	DIBROMOCHLOROMETHANE
30	18:18		0.984							30	METHYLCYCLOHEXANE
31	16:03		0.863							31	1,1,2-TRICHLOROETHANE
32	16:03		0.863							32	BENZENE
33	16:09		0.868							33	TRANS-1,3-DICHLOROPROPENE
34	17:18		0.930							34	2-CHLOROETHYLVINYLETHER
35	18:30		0.995							35	BROMOFORM
37	19:15		0.823							37	4-METHYL-2-PENTANONE
38	20:51		0.891							38	2-HEXANONE
39	~~20:48~~	~~-3~~	~~0.889~~	~~1.00~~	~~0.13~~	~~50.00~~	~~0.002~~	~~0.801~~	~~0.00~~	39	1,1,2,2-TETRACHLOROETHANE
40	21:03		0.900							40	TETRACHLOROETHENE
41	21:57		0.938							41	BUTYL ACETATE
43	~~22:30~~	~~-3~~	~~0.962~~	~~1.00~~	~~0.25~~	~~50.00~~	~~0.003~~	~~0.625~~	~~0.00~~	43	TOLUENE
44	~~23:33~~	~~-3~~	~~1.006~~	~~1.00~~	~~0.10~~	~~50.00~~	~~0.002~~	~~0.955~~	~~0.00~~	44	CHLOROBENZENE
45	25:21		1.083							45	ETHYLBENZENE
47	~~28:36~~	~~-3~~	~~1.222~~	~~1.00~~	~~0.07~~	~~50.00~~	~~0.001~~	~~0.851~~	~~0.00~~	47	STYRENE
48	28:51		1.233							48	M-XYLENE
49	29:33		1.263							49	O- & P-XYLENE
50	32:51	0	1.404	1.00	1.00	50.00	0.018	0.922	0.02	50	O-DICHLOROBENZENE
51	8:03		1.006							51	CYCLOPENTANE
52	28:51		1.233							52	XYLENE (TOTAL)
53	7:03		0.881							53	2-PROPANOL

C114820I2V15

Sample: L#114820 CLI#7,-3,05/15/90@1500 ETR#21422
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114820 Client ID: 7,-3,05/15/90@1500 ETR Number: 21422
Submitted by: ADIENV
Weight: 3.190 g

05/24/90 0703
OWAC -- KLK

Summary of Tentatively Identified Compounds

Rank	Scan	Dec. Time	En.RIC Height	Est. Amount	Ref	Name
ISTD	160	8.00	29440.	50.0	1	BROMOCHLOROMETHANE
ISTD	371	18.55	38528.	50.0	13	1,4-DIFLUOROBENZENE
ISTD	468	23.40	44928.	50.0	36	CHLOROBENZENE-D5

ØTIC's for reporting
cjp

PROCEDURE: TCA DIAGNOSTIC REPORT 3/24/90 7:39:56
DATA FILE: C114820I2V
REFERENCE: JTAB11
NAME LIST: UM INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: UMRET1

STANDARDS PROC	STANDARDS USED	STANDARDS POSS	STANDARDS RMS	PLUS UNKNOWNS PROC	PLUS UNKNOWNS USED	PLUS UNKNOWNS POSS	PLUS UNKNOWNS RMS	LIST NAMES STANDARD/UNKNOWN
1	1	1	0	13	6	1	294	UMRET1/UMUNK1
2	2	1	0	14	6	1	142	UMRET2/UMUNK2
2	2	1	0	14	6	1	0	UMRET2/UMUNK3
2	2	1	0	8	6	1	19	UMRET3/UMUNK4
1	1	1	0	8	6	1	5	UMRET4/UMUNK5

52 COMPOUNDS PROCESSED 10 FOUND

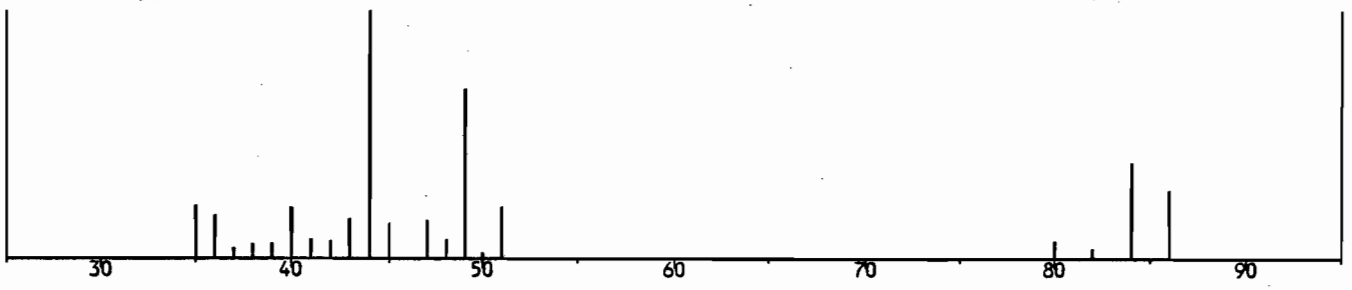
COMPOUND NO	LIB	ENTRY	REF	PRED	SEARCH DELTA	PEAKS	FIT	SAT PEAKS	CHRO M/Z	CHRO TOP	CHRO DELTA	CHRO PEAKS
1	UM	1	-158	160	160	1	978		128	160		1
2	UM	2	-18	20					50			
3	UM	3	-30	32					94			
4	UM	4	-40	42					62			
5	UM	5	-55	57					64			
6	UM	6	-89	90	92	2	1	990	84	92		1
7	UM	7	-113	114	112	-2	1	991	43	112		1
8	UM	8	-112	113					56			
9	UM	9	-125	126					53			
10	UM	10	-122	123					76			
11	UM	11	-134	135					101			
12	UM	12	-151	152					96			
13	UM	53	-144	145					45			
14	UM	13	-371	371	371	1	993		114	371		1
15	UM	51	-160	161					55			
16	UM	14	-176	177					63			
17	UM	15	-180	181					71			
18	UM	16	-193	194					96			
19	UM	17	-202	203					83			
20	UM	18	-219	220					62			
21	UM	19	-217	218	218	1	996		65	218		1
22	UM	20	-224	225					72			
23	UM	21	-210	211	209	-2	1	991	101	209		1
24	UM	22	-242	242					97			
25	UM	23	-250	250					117			
26	UM	24	-262	262					43			
27	UM	25	-262	263					83			
28	UM	26	-291	292					63			
29	UM	27	-297	298					75			
30	UM	28	-309	310					130			
31	UM	29	-316	317					129			
32	UM	30	-365	365					98			
33	UM	31	-320	320					97			
34	UM	32	-320	320					78			
35	UM	33	-322	322					75			
36	UM	34	-345	345					63			
37	UM	35	-369	369					173			
38	UM	36	-467	468	468	1	994		117	468		1
39	UM	37	-384	384					43			
40	UM	38	-416	417					43			
41	UM	39	-415	416					83	417		1
42	UM	40	-421	422					164			
43	UM	41	-438	439					56			
44	UM	42	-444	445	445	1	993		98	445		1
45	UM	43	-448	449					92	449		1
46	UM	44	-469	471					112	470		1
47	UM	45	-506	508					106			
48	UM	46	-545	547	547	1	996		95	547		1
49	UM	47	-569	571	571	1	351		104	573	2	1
50	UM	48	-575	577					106			
51	UM	49	-589	591					106			
52	UM	50	-653	655					146	657		1

Sample: L#114820 CLI#7,-3,05/15/90@1500 ETR#21422
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114820 Client ID: 7,-3,05/15/90@1500 ETR Number: 21422
Submitted by: ADIENV
Weight: 3.190 g

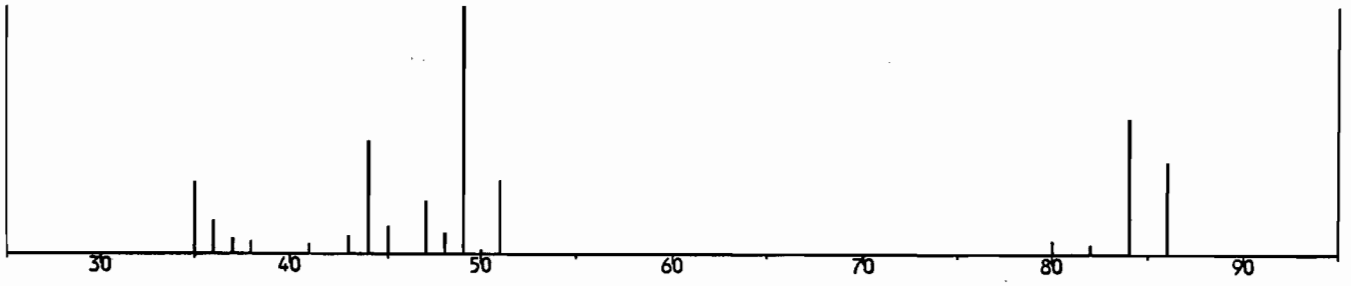
05/24/90 0703
OWAC -- KLK

LIBRARYUM#6 METHYLENE CHLORIDE

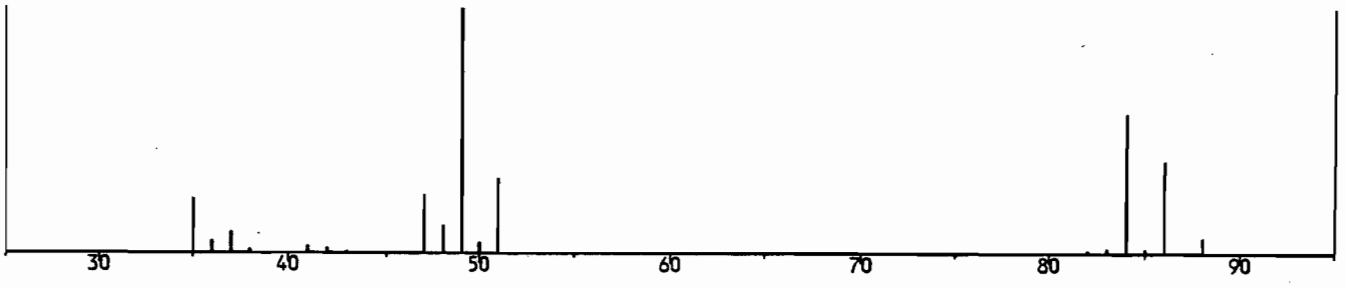
Unenhanced spectrum -- Scan # 92 ase m/z: 44 --- RIC: 5944. Max intensity: 1436



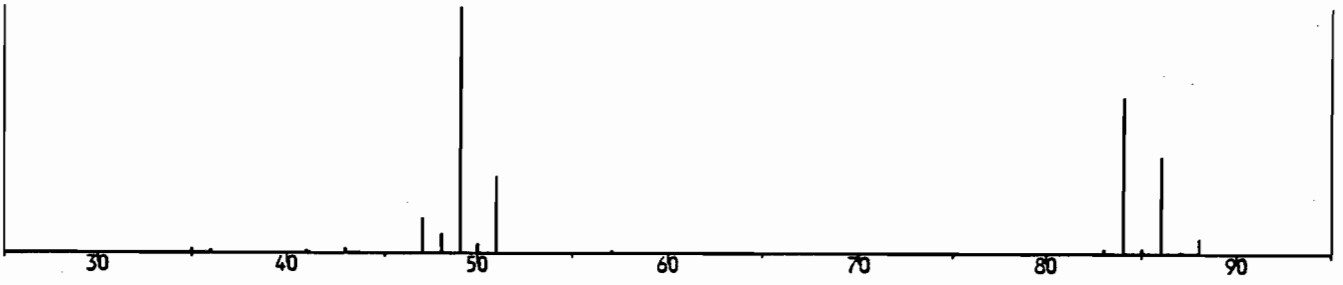
Enhanced (S 15B 2N 0T) -- Scan # 92 ase m/z: 49 --- RIC: 3748. Max intensity: 975



Enhanced CKV050AHV -- Scan # 91 Base m/z: 49 --- RIC: 57152. Max intensity: 17760



LIBRARYUM#6 CAS: 75-09-2 METHANE, DICHLORO- (CH2Cl2)

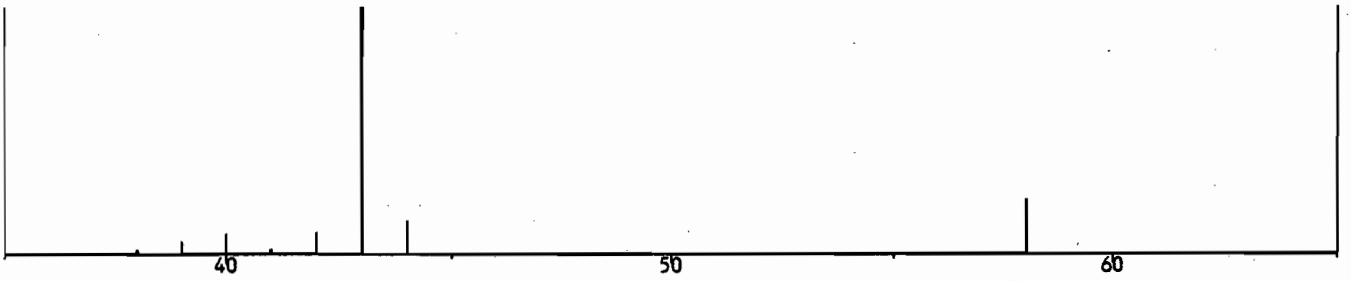


Sample: L#114820 CLI#7,-3,05/15/90@1500 ETR#21422
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114820 Client ID: 7,-3,05/15/90@1500 ETR Number: 21422
Submitted by: ADIENV
Weight: 3.190 g

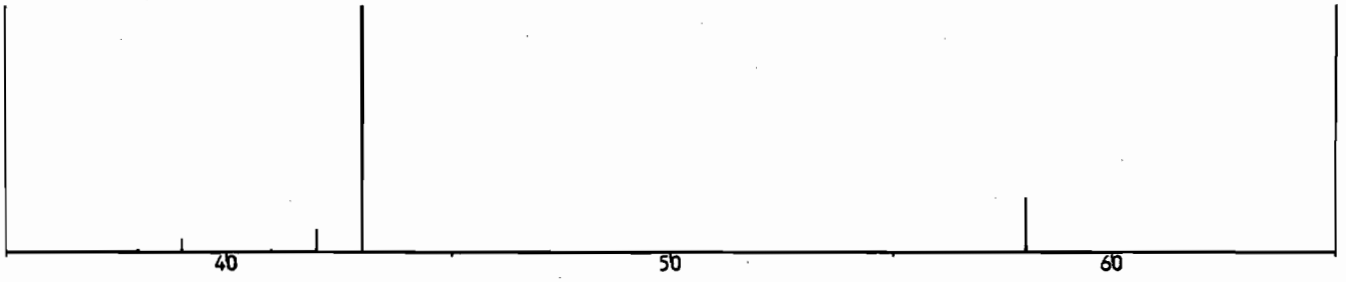
05/24/90 0703
OWAC -- KLK

LIBRARYUM#7 ACETONE

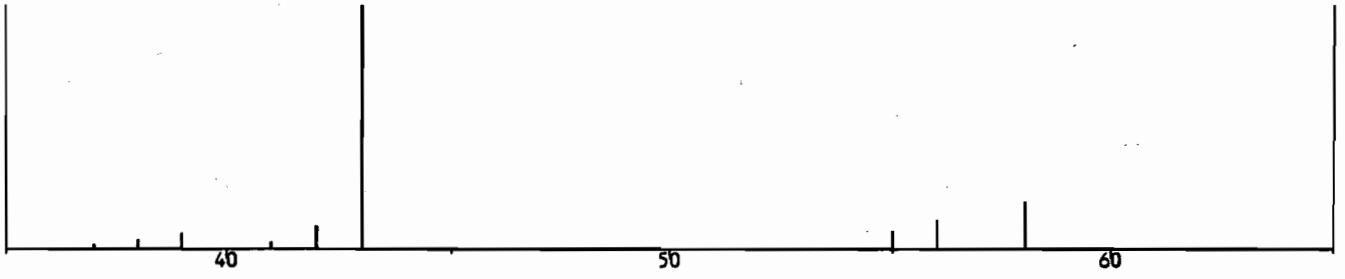
Unenhanced spectrum -- Scan # 112 ase m/z: 43 --- RIC: 3640. Max intensity: 2252



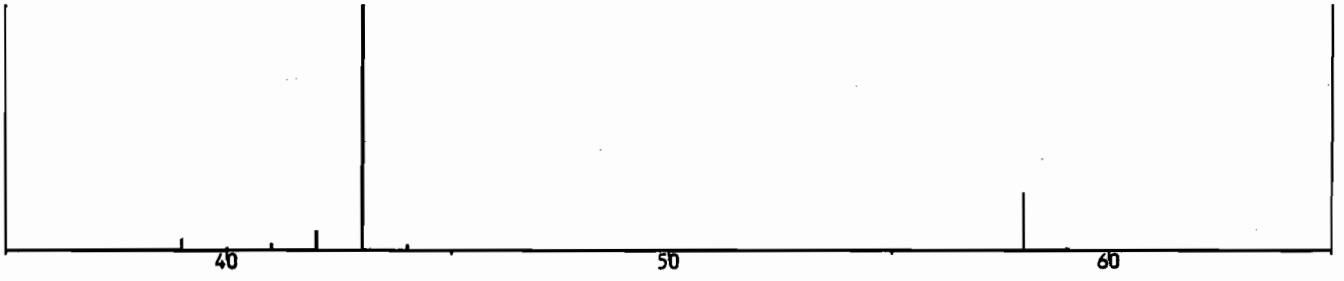
Enhanced (S 15B 2N 0T) -- Scan # 112 ase m/z: 43 --- RIC: 3016. Max intensity: 2184



Enhanced CKV050AHV -- Scan # 112 Base m/z: 43 --- RIC: 4272. Max intensity: 2604



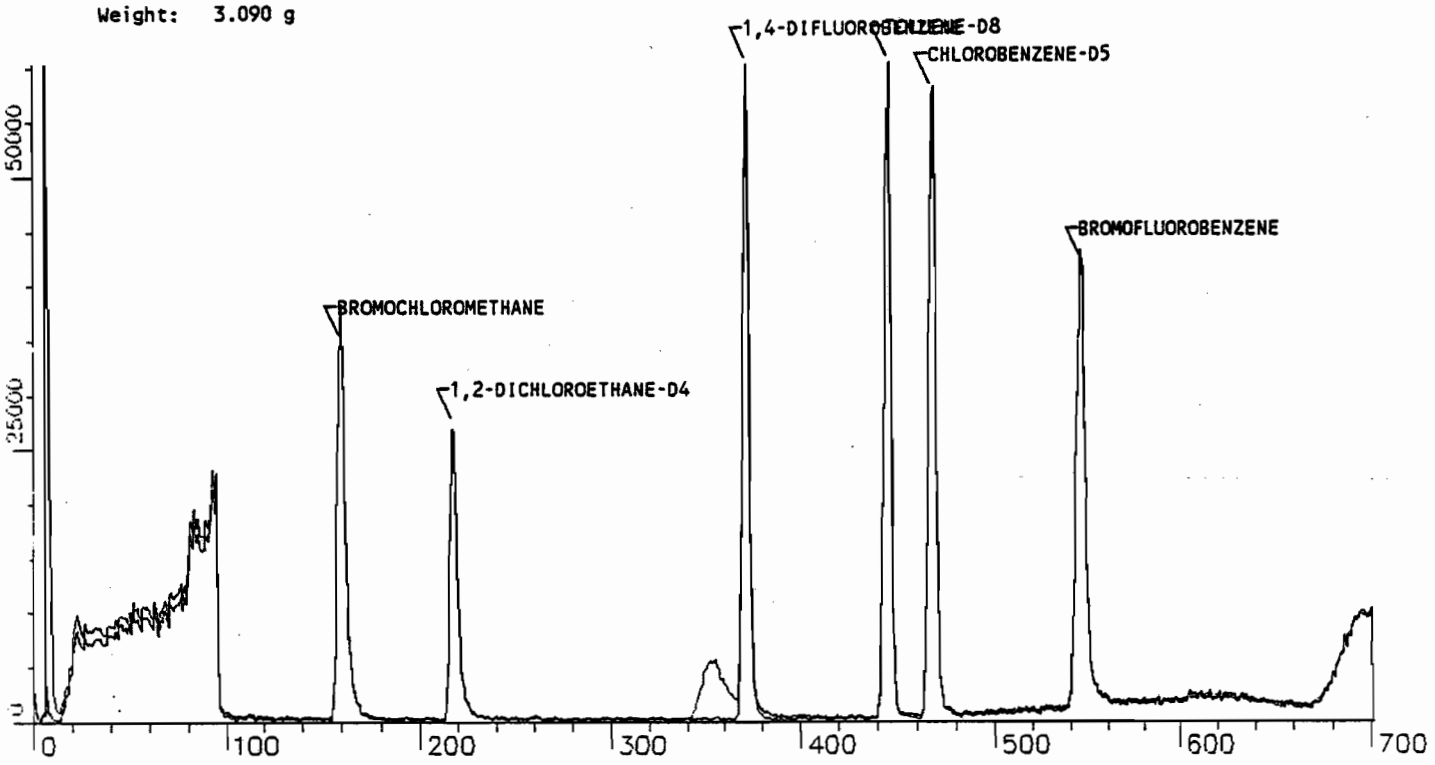
LIBRARYUM#7 CAS: 67-64-1 2-PROPANONE (C3H6O)



C114821V 1

05/22/90 1431
OWAC -- CMP

Sample: L#114821 CLI#MW-11,5.5'-7.5' ETR#21422 3.09GRAMS
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114821 Client ID: MW-11,5.5'-7.5' ETR Number: 21422 Submitted by: ADIEN
Weight: 3.090 g



No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
1	128	159	7:57	1	1.000	A BB	21498.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	371	18:33	13	1.000	A BB	95087.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	467	23:21	36	1.000	A BB	69335.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	217	10:51	1	1.365	A BB	37645.	45.585 PPB	91.2	19	1,2-DICHLOROETHANE-D4
42	98	445	22:15	36	0.953	A BB	78973.	47.971 PPB	95.9	42	TOLUENE-D8
46	95	546	27:18	36	1.169	A BB	35701.	46.871 PPB	93.7	46	BROMOFLUOROBENZENE

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
1	8:00	3	1.000	1.00	50.00	50.00	1.000	1.000	1.00	1	BROMOCHLOROMETHANE
13	18:33	0	1.000	1.00	50.00	50.00	1.000	1.000	1.00	13	1,4-DIFLUOROBENZENE
36	23:21	0	1.000	1.00	50.00	50.00	1.000	1.000	1.00	36	CHLOROBENZENE-D5
19	10:51	0	1.356	1.01	45.58	50.00	1.751	1.921	0.91	19	1,2-DICHLOROETHANE-D4
42	22:12	-3	0.951	1.00	47.97	50.00	1.139	1.187	0.96	42	TOLUENE-D8
46	27:15	-3	1.167	1.00	46.87	50.00	0.515	0.549	0.94	46	BROMOFLUOROBENZENE

CKT050BHV (05/22/90 6:26) RFs loaded on OWAC 5/22/90 8:11:40

C114821V 2

Sample: L#114821 CLI#MW-11,5.5'-7.5' ETR#21422 3.09GRAMS
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114821 Client ID: MW-11,5.5'-7.5' ETR Number: 21422 Submitted by: ADIENV
Weight: 3.090 g

05/22/90 1431
OWAC -- CMP

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
2	NOT FOUND									2	CHLOROMETHANE
3	94	48	2:24	1	0.302	A BB	85.	0.202 PPB		3	BROMOMETHANE
4	62	60	3:08	1	0.377	A BB	344.	0.943 PPB		4	VINYL CHLORIDE
5	NOT FOUND									5	CHLOROETHANE
6	84	92	4:36	1	0.579	A BB	2461.	4.544 PPB		6	METHYLENE CHLORIDE
7	NOT FOUND									7	ACETONE
8	NOT FOUND									8	ACROLEIN
9	NOT FOUND									9	ACRYLONITRILE
10	NOT FOUND									10	CARBON DISULFIDE
11	NOT FOUND									11	TRICHLOROFLUOROMETHANE
12	NOT FOUND									12	1,1-DICHLOROETHENE
14	NOT FOUND									14	1,1-DICHLOROETHANE
15	NOT FOUND									15	TETRAHYDROFURAN
16	NOT FOUND									16	1,2-DICHLOROETHENE (TOTAL)
17	NOT FOUND									17	CHLOROFORM
18	NOT FOUND									18	1,2-DICHLOROETHANE
20	NOT FOUND									20	2-BUTANONE
21	NOT FOUND									21	FREON TF
22	NOT FOUND									22	1,1,1-TRICHLOROETHANE
23	NOT FOUND									23	CARBON TETRACHLORIDE
24	NOT FOUND									24	VINYL ACETATE
25	NOT FOUND									25	BROMODICHLOROMETHANE
26	NOT FOUND									26	1,2-DICHLOROPROPANE
27	NOT FOUND									27	CIS-1,3-DICHLOROPROPENE
28	NOT FOUND									28	TRICHLOROETHENE
29	NOT FOUND									29	DIBROMOCHLOROMETHANE
30	NOT FOUND									30	METHYLCYCLOHEXANE
31	NOT FOUND									31	1,1,2-TRICHLOROETHANE
32	NOT FOUND									32	BENZENE
33	NOT FOUND									33	TRANS-1,3-DICHLOROPROPENE
34	NOT FOUND									34	2-CHLOROETHYLVINYLETHER
35	NOT FOUND									35	BROMOFORM
37	NOT FOUND									37	4-METHYL-2-PENTANONE
38	NOT FOUND									38	2-HEXANONE
39	NOT FOUND									39	1,1,2,2-TETRACHLOROETHANE
40	NOT FOUND									40	TETRACHLOROETHENE
41	NOT FOUND									41	BUTYL ACETATE
43	92	450	22:30	36	0.964	A BB	65.	0.062 PPB		43	TOLUENE
44	NOT FOUND									44	CHLOROBENZENE
45	NOT FOUND									45	ETHYLBENZENE
47	NOT FOUND									47	STYRENE
48	NOT FOUND									48	M-XYLENE
49	NOT FOUND									49	O- & P-XYLENE
50	NOT FOUND									50	O-DICHLOROBENZENE
51	NOT FOUND									51	CYCLOPENTANE
52	NOT FOUND									52	XYLENE (TOTAL)
53	NOT FOUND									53	2-PROPANOL

C114821V 3

Sample: L#114821 CLI#MW-11,5.5'-7.5' ETR#21422 3.09GRAMS
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114821 Client ID: MW-11,5.5'-7.5' ETR Number: 21422 Submitted by: ADIENV
Weight: 3.090 g

05/22/90 1431
OWAC -- CMP

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	0:54		0.112							2	CHLOROMETHANE
3	1:33	-51*	0.194	1.56	0.20	55.00	0.004	0.979	0.00	3	BROMOMETHANE
4	2:00	-60*	0.250	1.51	0.94	50.00	0.016	0.850	0.02	4	VINYL CHLORIDE
5	2:45		0.344							5	CHLOROETHANE
6	4:36	0	0.575	1.01	4.54	50.00	0.114	1.260	0.09	6	METHYLENE CHLORIDE
7	5:36		0.700							7	ACETONE
8	5:42		0.713							8	ACROLEIN
9	6:21		0.794							9	ACRYLONITRILE
10	6:15		0.781							10	CARBON DISULFIDE
11	6:42		0.837							11	TRICHLOROFLUOROMETHANE
12	7:36		0.950							12	1,1-DICHLOROETHENE
14	8:48		1.100							14	1,1-DICHLOROETHANE
15	9:00		1.125							15	TETRAHYDROFURAN
16	9:42		1.212							16	1,2-DICHLOROETHENE (TOTAL)
17	10:06		1.262							17	CHLOROFORM
18	10:57		1.369							18	1,2-DICHLOROETHANE
20	11:09		1.394							20	2-BUTANONE
21	10:27		0.563							21	FREON TF
22	12:03		0.650							22	1,1,1-TRICHLOROETHANE
23	12:27		0.671							23	CARBON TETRACHLORIDE
24	13:03		0.704							24	VINYL ACETATE
25	13:06		0.706							25	BROMODICHLOROMETHANE
26	14:30		0.782							26	1,2-DICHLOROPROPANE
27	14:48		0.798							27	CIS-1,3-DICHLOROPROPENE
28	15:24		0.830							28	TRICHLOROETHENE
29	15:48		0.852							29	DIBROMOCHLOROMETHANE
30	18:12		0.981							30	METHYLCYCLOHEXANE
31	15:57		0.860							31	1,1,2-TRICHLOROETHANE
32	15:57		0.860							32	BENZENE
33	16:06		0.868							33	TRANS-1,3-DICHLOROPROPENE
34	17:15		0.930							34	2-CHLOROETHYLVINYLETHER
35	18:27		0.995							35	BROMOFORM
37	19:12		0.822							37	4-METHYL-2-PENTANONE
38	20:48		0.891							38	2-HEXANONE
39	20:45		0.889							39	1,1,2,2-TETRACHLOROETHANE
40	21:00		0.899							40	TETRACHLOROETHENE
41	21:54		0.938							41	BUTYL ACETATE
43	22:24	-6	0.959	1.00	0.06	50.00	0.001	0.757	0.00	43	TOLUENE
44	23:27		1.004							44	CHLOROBENZENE
45	25:18		1.084							45	ETHYLBENZENE
47	28:27		1.218							47	STYRENE
48	28:45		1.231							48	M-XYLENE
49	29:24		1.259							49	O- & P-XYLENE
50	32:42		1.400							50	O-DICHLOROBENZENE
51	8:03		1.006							51	CYCLOPENTANE
52	28:45		1.231							52	XYLENE (TOTAL)
53	7:03		0.881							53	2-PROPANOL

C114821V$_{26}$

Sample: L#114821 CLI#MW-11,5.5'-7.5' ETR#21422 3.09GRAMS
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114821 Client ID: MW-11,5.5'-7.5' ETR Number: 21422 Submitted by: ADIENV
Weight: 3.090 g

05/22/90 1431
OWAC -- CMP

Summary of Tentatively Identified Compounds

Rank	Scan	Dec. Time	En.RIC Height	Est. Amount	Ref	Name
~~1~~	7	0.35	64191.	101.8	1	UNKNOWN
6	23	1.15	4383.	6.9	1	UNKNOWN
13	46	2.30	3479.	5.5	1	UNKNOWN
8	52	2.60	4043.	6.4	1	UNKNOWN
9	59	2.95	3871.	6.1	1	UNKNOWN
10	63	3.15	3795.	6.0	1	UNKNOWN
7	68	3.40	4255.	6.7	1	UNKNOWN
11	71	3.55	3719.	5.9	1	UNKNOWN
12	76	3.80	3691.	5.9	1	UNKNOWN
5	83	4.15	5839.	9.3	1	UNKNOWN
~~4~~	~~93~~	~~4.65~~	~~9407.~~	~~14.9~~	~~1~~	~~UNKNOWN~~ TCL#6
ISTD	160	8.00	31541.	50.0	1	BROMOCHLOROMETHANE
ISTD	371	18.55	41024.	50.0	13	1,4-DIFLUOROBENZENE
ISTD	467	23.35	42904.	50.0	36	CHLOROBENZENE-D5
~~2~~	~~468~~	~~23.40~~	~~53503.~~	~~62.4~~	~~36~~	~~UNKNOWN~~ ISTD#36
~~3~~	~~545~~	~~27.25~~	~~37695.~~	~~43.9~~	~~36~~	~~UNKNOWN~~ SS#46

background noise

6 TIC's for reporting

CP

PROCEDURE: TCA DIAGNOSTIC REPORT 5/22/90 15:12:43
DATA FILE: C114821V
REFERENCE: JTAB11
NAME LIST: UM INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: UMRET1

--- STANDARDS ---				--- PLUS UNKNOWNS ---				- LIST NAMES -
PROD	USED	POSS	RMS	PROD	USED	POSS	RMS	STANDARD/UNKNOWN
1	1	1	0	113	1	72	452	UMRET1/UMUNK1
2	2	1	0	113	1	1	35	UMRET2/UMUNK2
2	2	1	0	113	1	1	0	UMRET2/UMUNK3
2	2	1	0	113	1	1	78	UMRET3/UMUNK4
1	1	1	0	8	1	1	209	UMRET4/UMUNK5

52 COMPOUNDS PROCESSED. 11 FOUND

COMPOUND			SEARCH					SAT		CHRO			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/I	TOP	DELTA	PEAKS
1	UM	1	-138	138	138		1	979		128	159	-1	1
2	UM	2	-18	18	17	1	4	987		50			
3	UM	3	-30	48						94	48		1
4	UM	4	-40	58	60	3	3	1000		62	60		1
5	UM	5	-55	70	69	-1	6	989		54			
6	UM	6	-89	98	92	-6	1	983		84	92		1
7	UM	7	-113	113						43			
8	UM	8	-112	118						56			
9	UM	9	-125	125						53			
10	UM	10	-122	126						76			
11	UM	11	-134	137						101			
12	UM	12	-151	151						96			
53	UM	53	-144	145						45			
13	UM	13	-371	371	371		1	1000		114	371		1
51	UM	51	-160	160						55			
14	UM	14	-176	176						53			
15	UM	15	-180	182						71			
16	UM	16	-193	194						96			
17	UM	17	-202	203						83			
18	UM	18	-219	220						62			
19	UM	19	-217	218	218		1	1000		65	217	-1	1
20	UM	20	-224	225						72			
21	UM	21	-210	211						101			
22	UM	22	-242	243						97			
23	UM	23	-250	250						117			
24	UM	24	-262	263						43			
25	UM	25	-262	263						83			
26	UM	26	-291	291						63			
27	UM	27	-297	298						75			
28	UM	28	-309	310						130			
29	UM	29	-316	317						129			
30	UM	30	-365	365						98			
31	UM	31	-320	320						97			
32	UM	32	-320	320						78			
33	UM	33	-322	322						75			
34	UM	34	-345	345						63			
35	UM	35	-369	369						173			
36	UM	36	-467	467	467		1	994		117	467		1
37	UM	37	-384	384						43			
38	UM	38	-416	416						43			
39	UM	39	-415	415						83			
40	UM	40	-421	421						164			
41	UM	41	-438	438						56			
42	UM	42	-444	444	445	1	1	990		98	445		1
43	UM	43	-448	448						92	450		1
44	UM	44	-469	470						112			
45	UM	45	-506	507						106			
46	UM	46	-545	547	545	-2	1	990		95	546	1	1
47	UM	47	-569	571	572	1	1	507		104			
48	UM	48	-575	577						106			
49	UM	49	-589	591						106			
50	UM	50	-653	655						146			

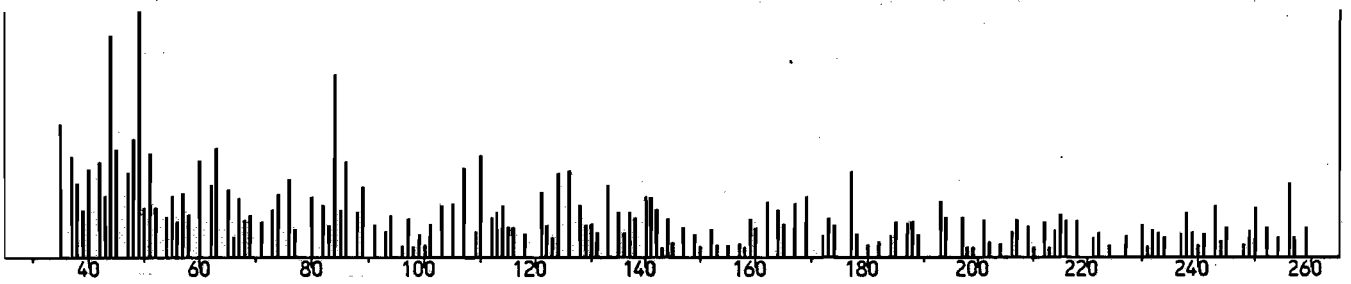
C114821V 7

Sample: L#114821 CLI#MW-11,5.5'-7.5' ETR#21422 3.09GRAMS
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114821 Client ID: MW-11,5.5'-7.5' ETR Number: 21422 Submitted by: ADIENV
Weight: 3.090 g

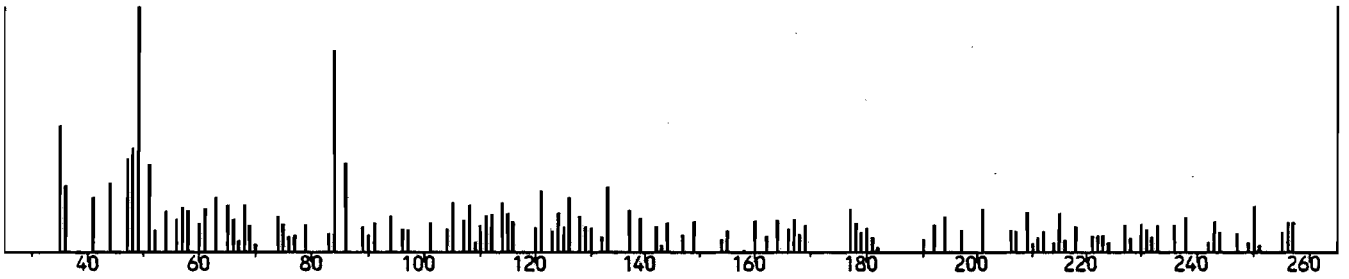
05/22/90 1431
OWAC -- CMP

LIBRARYUM#6 METHYLENE CHLORIDE

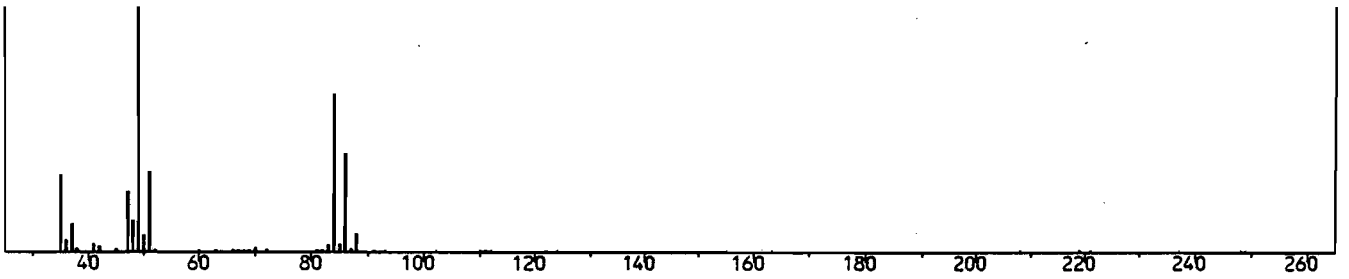
Unenhanced spectrum -- Scan # 92 Base m/z: 49 --- RIC: 21312. Max intensity: 762



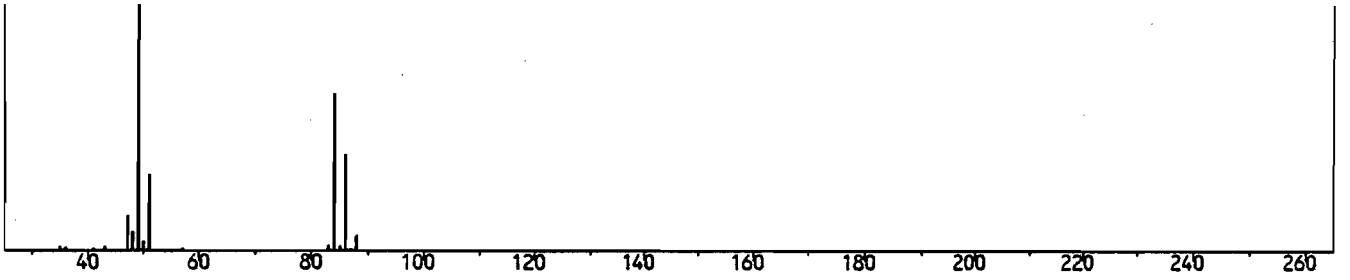
Enhanced (S 15B 2N OT) -- Scan # 92 Base m/z: 49 --- RIC: 10656. Max intensity: 640



Enhanced CKT050BHV -- Scan # 92 Base m/z: 49 --- RIC: 52416. Max intensity: 12880

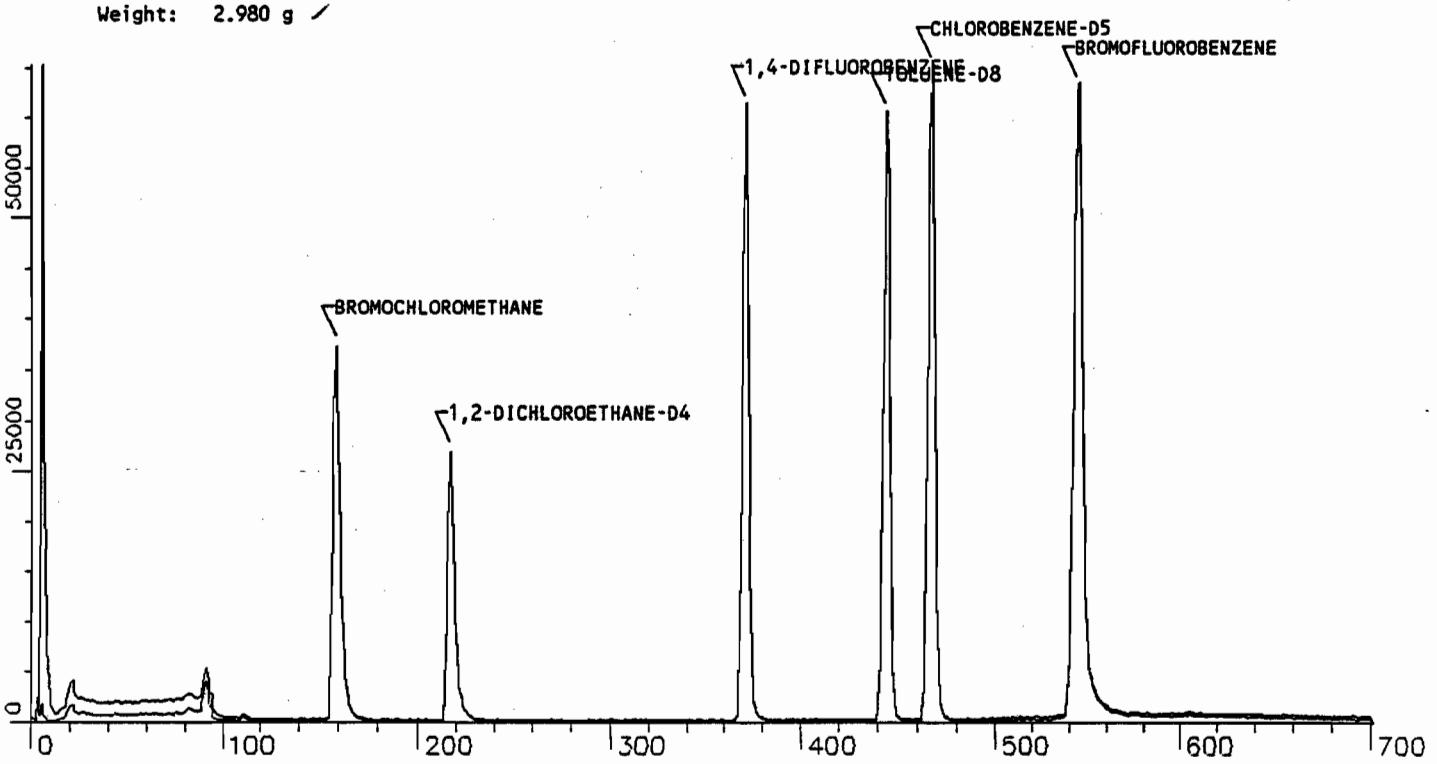


LIBRARYUM#6 CAS: 75-09-2 METHANE, DICHLORO- (CH2Cl2)



C114822V 1

Sample: L#114822 CLI#MW-11 18'-20': 05/15/90 @ 0825 ETR#21422 2.98G
05/24/90 0852
Conditions: GC/MS OWAC
OWAC -- SPS
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114822 Client ID: MW-11 ETR Number: 21422 Submitted by: ADIENV
Weight: 2.980 g



No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
1	128	159	7:57	1	1.000	A BB	19697.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	371	18:33	13	1.000	A BB	92832	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	467	23:21	36	1.000	A BB	70295	50.000 PPB		36	CHLOROBENZENE-D5
19	65	217	10:51	1	1.365	A BB	43136.	49.624 PPB	99.2	19	1,2-DICHLOROETHANE-D4
42	98	444	22:12	36	0.951	A BB	80625.	52.709 PPB	105.4	42	TOLUENE-D8
46	95	544	27:12	36	1.165	A BB	55219.	45.755 PPB	91.5	46	BROMOFLUOROBENZENE

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
1	8:00	3	1.000	1.00	50.00	50.00	1.000	1.000	1.00	1	BROMOCHLOROMETHANE
13	18:36	3	1.000	1.00	50.00	50.00	1.000	1.000	1.00	13	1,4-DIFLUOROBENZENE
36	23:24	3	1.000	1.00	50.00	50.00	1.000	1.000	1.00	36	CHLOROBENZENE-D5
19	10:54	3	1.362	1.00	49.62	50.00	2.190	2.207	0.99	19	1,2-DICHLOROETHANE-D4
42	22:18	6	0.953	1.00	52.71	50.00	1.147	1.088	1.05	42	TOLUENE-D8
46	27:21	9	1.169	1.00	45.75	50.00	0.786	0.858	0.92	46	BROMOFLUOROBENZENE

CKV050AHV (05/24/90 4:51) RFs loaded on OWAC 5/24/90 5:47:24

C114822V 2

Sample: L#114822 CLI#MW-11 18'-20': 05/15/90 @ 0825 ETR#21422 2.98G
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114822 Client ID: MW-11 ETR Number: 21422 Submitted by: ADIENV
Weight: 2.980 g

05/24/90 0852
OWAC -- SPS

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
2	NOT FOUND									2	CHLOROMETHANE
3	NOT FOUND									3	BROMOMETHANE
4	NOT FOUND									4	VINYL CHLORIDE
5	NOT FOUND									5	CHLOROETHANE
6	84	91	4:33	1	0.572	A BB	1766.	2.447 PPB		6	METHYLENE CHLORIDE
7	NOT FOUND									7	ACETONE
8	NOT FOUND									8	ACROLEIN
9	NOT FOUND									9	ACRYLONITRILE
10	NOT FOUND									10	CARBON DISULFIDE
11	NOT FOUND									11	TRICHLOROFLUOROMETHANE
12	NOT FOUND									12	1,1-DICHLOROETHENE
14	NOT FOUND									14	1,1-DICHLOROETHANE
15	NOT FOUND									15	TETRAHYDROFURAN
16	NOT FOUND									16	1,2-DICHLOROETHENE (TOTAL)
17	NOT FOUND									17	CHLOROFORM
18	NOT FOUND									18	1,2-DICHLOROETHANE
20	NOT FOUND									20	2-BUTANONE
21	NOT FOUND									21	FREON TF
22	NOT FOUND									22	1,1,1-TRICHLOROETHANE
23	NOT FOUND									23	CARBON TETRACHLORIDE
24	NOT FOUND									24	VINYL ACETATE
25	NOT FOUND									25	BROMODICHLOROMETHANE
26	NOT FOUND									26	1,2-DICHLOROPROPANE
27	NOT FOUND									27	CIS-1,3-DICHLOROPROPENE
28	NOT FOUND									28	TRICHLOROETHENE
29	NOT FOUND									29	DIBROMOCHLOROMETHANE
30	NOT FOUND									30	METHYLCYCLOHEXANE
31	NOT FOUND									31	1,1,2-TRICHLOROETHANE
32	NOT FOUND									32	BENZENE
33	NOT FOUND									33	TRANS-1,3-DICHLOROPROPENE
34	NOT FOUND									34	2-CHLOROETHYLVINYLETHER
35	NOT FOUND									35	BROMOFORM
37	NOT FOUND									37	4-METHYL-2-PENTANONE
38	NOT FOUND									38	2-HEXANONE
39	NOT FOUND									39	1,1,2,2-TETRACHLOROETHANE
40	NOT FOUND									40	TETRACHLOROETHENE
41	NOT FOUND									41	BUTYL ACETATE
~~43~~	~~92~~	~~448~~	~~22:24~~	~~36~~	~~0.959~~	~~A BB~~	~~375.~~	~~0.427 PPB~~		43	TOLUENE
~~44~~	~~112~~	~~468~~	~~23:24~~	~~36~~	~~1.002~~	~~A BB~~	~~172.~~	~~0.128 PPB~~		44	CHLOROBENZENE
45	NOT FOUND									45	ETHYLBENZENE
47	NOT FOUND									47	STYRENE
48	NOT FOUND									48	M-XYLENE
49	NOT FOUND									49	O- & P-XYLENE
50	NOT FOUND									50	O-DICHLOROBENZENE
51	NOT FOUND									51	CYCLOPENTANE
52	NOT FOUND									52	XYLENE (TOTAL)
53	NOT FOUND									53	2-PROPANOL

C114822V 3

Sample: L#114822 CLI#MW-11 18'-20': 05/15/90 @ 0825 ETR#21422 2.98G
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114822 Client ID: MW-11 ETR Number: 21422 Submitted by: ADIENV
Weight: 2.980 g

05/24/90 0852
OWAC -- SPS

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	0:57		0.119							2	CHLOROMETHANE
3	1:33		0.194							3	BROMOMETHANE
4	2:03		0.256							4	VINYL CHLORIDE
5	2:45		0.344							5	CHLOROETHANE
6	4:33	0	0.569	1.01	2.45	50.00	0.090	1.832	0.05	6	METHYLENE CHLORIDE
7	5:36		0.700							7	ACETONE
8	5:39		0.706							8	ACROLEIN
9	6:18		0.788							9	ACRYLONITRILE
10	6:15		0.781							10	CARBON DISULFIDE
11	6:45		0.844							11	TRICHLOROFLUOROMETHANE
12	7:36		0.950							12	1,1-DICHLOROETHENE
14	8:51		1.106							14	1,1-DICHLOROETHANE
15	9:03		1.131							15	TETRAHYDROFURAN
16	9:45		1.219							16	1,2-DICHLOROETHENE (TOTAL)
17	10:09		1.269							17	CHLOROFORM
18	11:00		1.375							18	1,2-DICHLOROETHANE
20	11:15		1.406							20	2-BUTANONE
21	10:30		0.565							21	FREON TF
22	12:09		0.653							22	1,1,1-TRICHLOROETHANE
23	12:30		0.672							23	CARBON TETRACHLORIDE
24	13:06		0.704							24	VINYL ACETATE
25	13:09		0.707							25	BROMODICHLOROMETHANE
26	14:33		0.782							26	1,2-DICHLOROPROPANE
27	14:54		0.801							27	CIS-1,3-DICHLOROPROPENE
28	15:30		0.833							28	TRICHLOROETHENE
29	15:51		0.852							29	DIBROMOCHLOROMETHANE
30	18:18		0.984							30	METHYLCYCLOHEXANE
31	16:03		0.863							31	1,1,2-TRICHLOROETHANE
32	16:03		0.863							32	BENZENE
33	16:09		0.868							33	TRANS-1,3-DICHLOROPROPENE
34	17:18		0.930							34	2-CHLOROETHYLVINYLETHER
35	18:30		0.995							35	BROMOFORM
37	19:15		0.823							37	4-METHYL-2-PENTANONE
38	20:51		0.891							38	2-HEXANONE
39	20:48		0.889							39	1,1,2,2-TETRACHLOROETHANE
40	21:03		0.900							40	TETRACHLOROETHENE
41	21:57		0.938							41	BUTYL ACETATE
43	22:30	6	0.962	1.00	0.43	50.00	0.085	0.625	0.01	43	TOLUENE
44	23:33	9	1.006	1.00	0.13	50.00	0.002	0.955	0.00	44	CHLOROBENZENE
45	25:21		1.083							45	ETHYLBENZENE
47	28:36		1.222							47	STYRENE
48	28:51		1.233							48	M-XYLENE
49	29:33		1.263							49	O- & P-XYLENE
50	32:51		1.404							50	O-DICHLOROBENZENE
51	8:03		1.006							51	CYCLOPENTANE
52	28:51		1.233							52	XYLENE (TOTAL)
53	7:03		0.881							53	2-PROPANOL

C114822V$_{13}$

Sample: L#114822 CLI#MW-11 18'-20': 05/15/90 @ 0825 ETR#21422 2.98G
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114822 Client ID: MW-11 ETR Number: 21422 Submitted by: ADIENV
Weight: 2.980 g

05/24/90 0852
OWAC -- SPS

Summary of Tentatively Identified Compounds

Rank	Scan	Dec. Time	En.RIC Height	Est. Amount	Ref	Name
ISTD	159	7.95	31712.	50.0	1	BROMOCHLOROMETHANE
ISTD	371	18.55	42432.	50.0	13	1,4-DIFLUOROBENZENE
ISTD	467	23.35	49928.	50.0	36	CHLOROBENZENE-D5
~~1~~	~~545~~	~~27.25~~	~~57151.~~	~~57.2~~	~~36~~	~~UNKNOWN~~ SS#46

ØTICs for reporting
Cap

PROCEDURE: TCA DIAGNOSTIC REPORT 5/24/90 9:32:04
DATA FILE: C114822V
REFERENCE: JTA811
NAME LIST: UM INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: UMRET1

--- STANDARDS ---				--- PLUS UNKNOWNS ---				- LIST NAMES -
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
1	1	1	0	1	1	1	0	UMRET1/UMUNK1
2	2	1	0	1	2	1	57	UMRET2/UMUNK2
2	2	1	0	1	2	1	0	UMRET2/UMUNK3
2	1	1	0	1	1	1	0	UMRET3/UMUNK4
1	1	1	0	1	1	1	0	UMRET4/UMUNK5

52 COMPOUNDS PROCESSED: 6 FOUND

COMPOUND			SEARCH				SAT	CHRO			
NO	LIB	ENTRY	REF	PRED	SET	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	UM	1	-158	159	159		1	978		128	159		1
2	UM	2	-18	21						50			
3	UM	3	-30	33						94			
4	UM	4	-40	43						62			
5	UM	5	-55	57						64			
6	UM	6	-89	91	91		1	995		84	91		1
7	UM	7	-113	115						43			
8	UM	8	-112	114						56			
9	UM	9	-125	126						53			
10	UM	10	-122	124						76			
11	UM	11	-134	135						101			
12	UM	12	-151	150						96			
13	UM	53	-144	146						45			
14	UM	13	-371	371	371		1	995		114	371		1
15	UM	51	-160	161						55			
16	UM	14	-176	177						63			
17	UM	15	-180	181						71			
18	UM	16	-193	194						96			
19	UM	17	-202	203						83			
20	UM	18	-219	219						62			
21	UM	19	-217	217	217		1	996		65	217		1
22	UM	20	-224	224						72			
23	UM	21	-210	210						101			
24	UM	22	-242	242						97			
25	UM	23	-250	250						117			
26	UM	24	-262	262						43			
27	UM	25	-262	263						83			
28	UM	26	-291	291						63			
29	UM	27	-297	297						75			
30	UM	28	-309	309						130			
31	UM	29	-316	316						129			
32	UM	30	-365	365						98			
33	UM	31	-320	320						97			
34	UM	32	-320	320						78			
35	UM	33	-322	322						75			
36	UM	34	-345	345						63			
37	UM	35	-369	369						173			
38	UM	36	-467	467						117	467		1
39	UM	37	-384	384						43			
40	UM	38	-416	416						43			
41	UM	39	-415	415						83			
42	UM	40	-421	421						164			
43	UM	41	-438	438						56			
44	UM	42	-444	444	444		1	993		98	444		1
45	UM	43	-448	448						92	448		1
46	UM	44	-469	468						112	468		1
47	UM	45	-506	505						106			
48	UM	46	-545	544	544		1	997		95	544		1
49	UM	47	-569	568						104			
50	UM	48	-575	574						106			
51	UM	49	-589	588						106			
52	UM	50	-653	652						146			

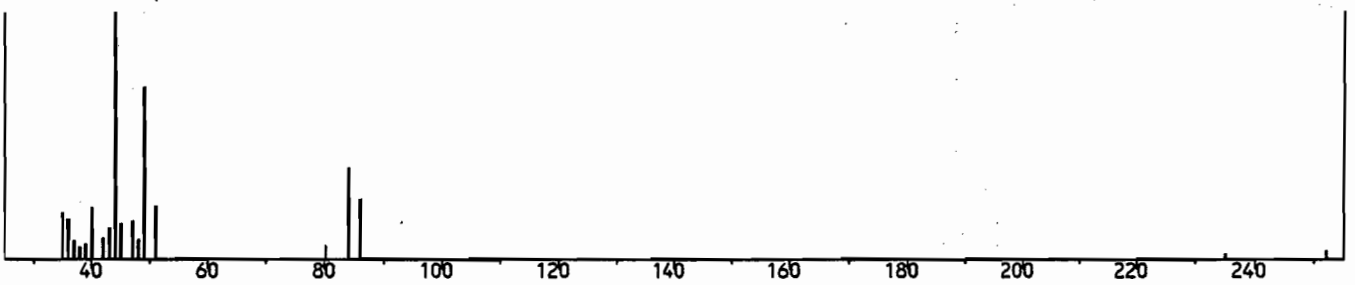
C114822V 6

Sample: L#114822 CLI#MW-11 18'-20': 05/15/90 @ 0825 ETR#21422 2.98G
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114822 Client ID: MW-11 ETR Number: 21422 Submitted by: ADIENV
Weight: 2.980 g

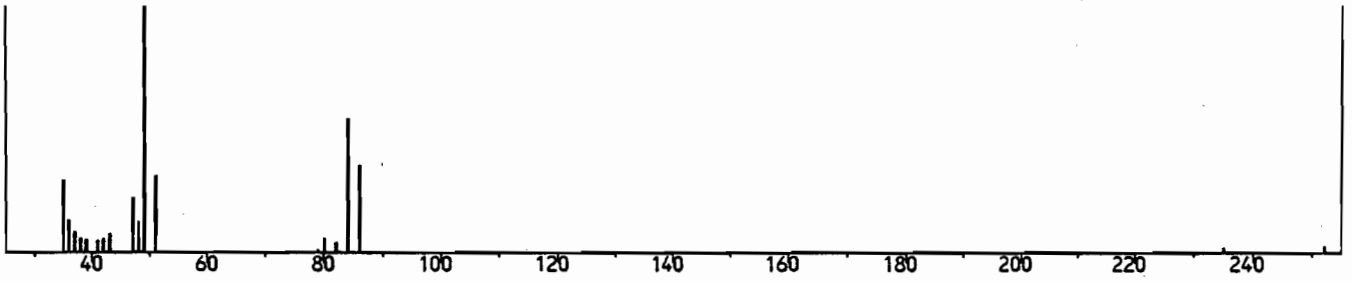
05/24/90 0852
OWAC -- SPS

LIBRARYUM#6 METHYLENE CHLORIDE

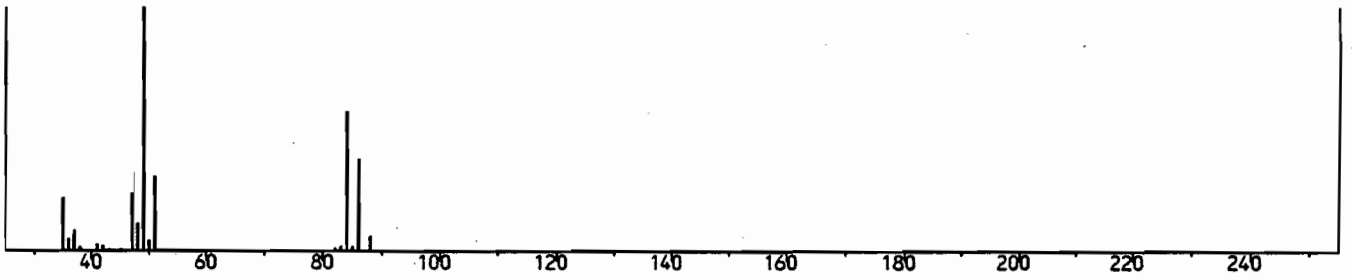
Unenhanced spectrum -- Scan # 91 Base m/z: 44 --- RIC: 5496. Max intensity: 1380



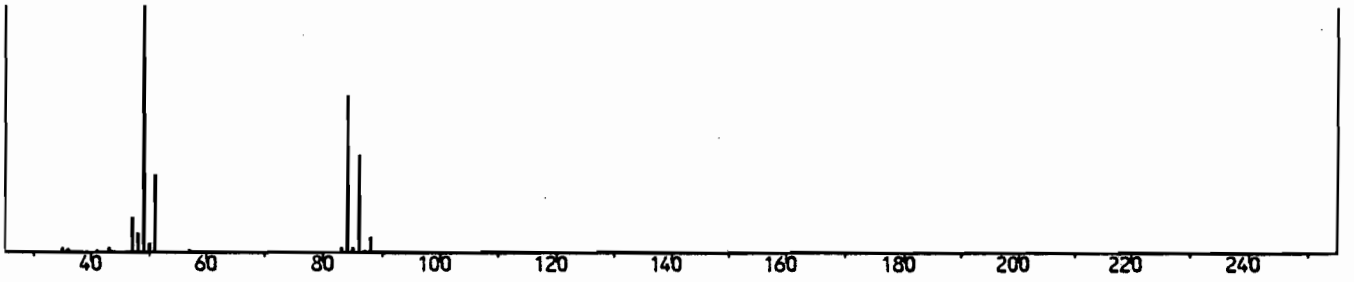
Enhanced (S 15B 2N 0T) -- Scan # 91 Base m/z: 49 --- RIC: 3216. Max intensity: 919



Enhanced CKV050AHV -- Scan # 91 Base m/z: 49 --- RIC: 57152. Max intensity: 17760

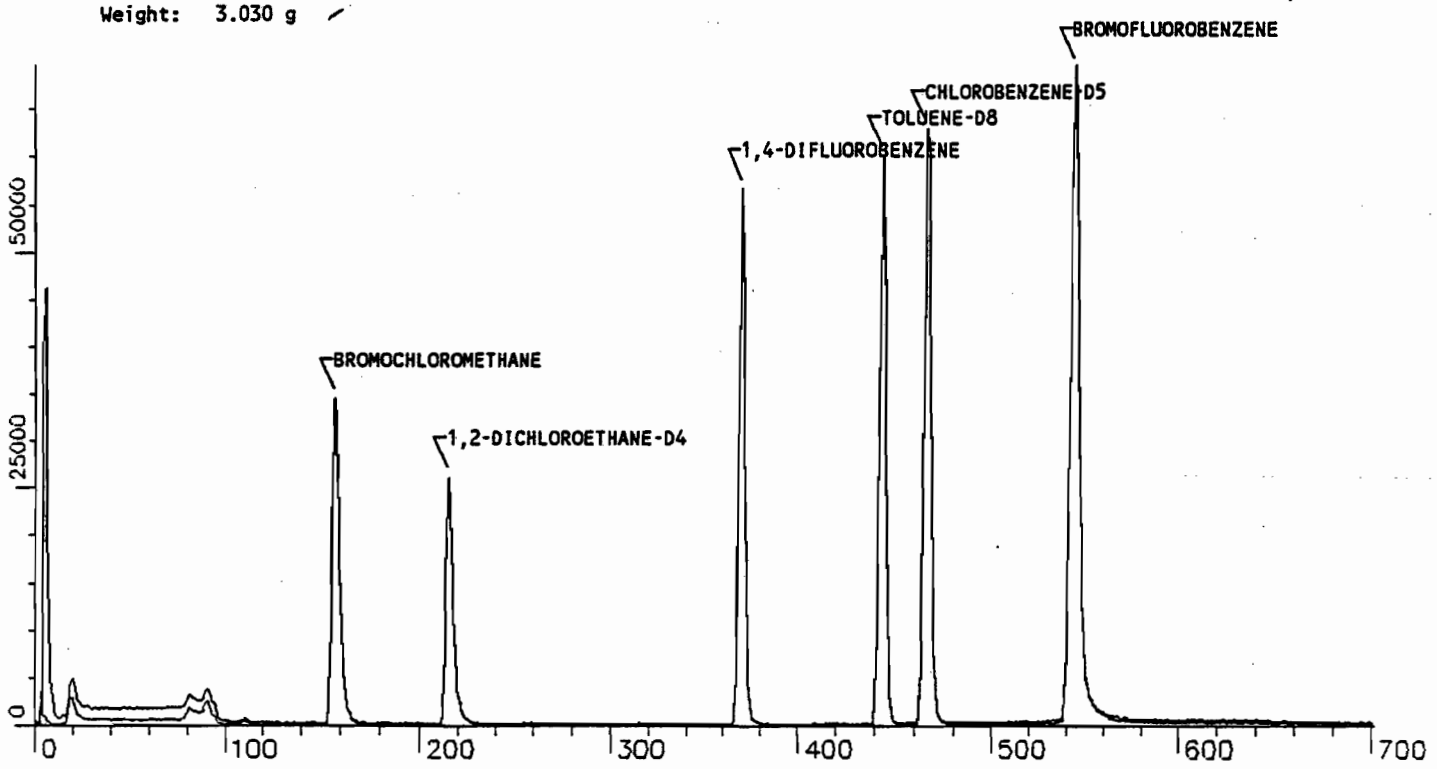


LIBRARYUM#6 CAS: 75-09-2 METHANE, DICHLORO- (CH2Cl2)



C114877V 1

Sample: L#114877 CLI#MW-12 5.5'-7.5' ETR#21436 3.03G
05/24/90 1045
Conditions: GC/MS OWAC
OWAC -- SPS
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114877 Client ID: MW-12 ETR Number: 21436 Submitted by: ADIENV
Weight: 3.030 g



No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
1	128	157	7:51	1	1.000	A BB	17826.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	370	18:30	13	1.000	A BB	84502.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	466	23:18	36	1.000	A BB	68970.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	215	10:45	1	1.369	A BB	41840.	53.185 PPB	106.4	19	1,2-DICHLOROETHANE-D4
42	98	444	22:12	36	0.953	A BB	79938.	53.263 PPB	106.5	42	TOLUENE-D8
46	95	544	27:12	36	1.167	A BB	61371.	51.829 PPB	103.7	46	BROMOFLUOROBENZENE

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
1	8:00	9	1.000	1.00	50.00	50.00	1.000	1.000	1.00	1	BROMOCHLOROMETHANE
13	18:36	6	1.000	1.00	50.00	50.00	1.000	1.000	1.00	13	1,4-DIFLUOROBENZENE
36	23:24	6	1.000	1.00	50.00	50.00	1.000	1.000	1.00	36	CHLOROBENZENE-D5
19	10:54	9	1.362	1.01	53.19	50.00	2.347	2.207	1.06	19	1,2-DICHLOROETHANE-D4
42	22:18	6	0.953	1.00	53.26	50.00	1.159	1.088	1.07	42	TOLUENE-D8
46	27:21	9	1.169	1.00	51.83	50.00	0.890	0.858	1.04	46	BROMOFLUOROBENZENE

CKV050AHV (05/24/90 4:51) RFs loaded on OWAC 5/24/90 5:47:24

C114877V 2

05/24/90 1045
OWAC -- SPS

Sample: L#114877 CLI#MW-12 5.5'-7.5' ETR#21436 3.03G
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114877 Client ID: MW-12 ETR Number: 21436 Submitted by: ADIENV
Weight: 3.030 g

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
~~2~~	~~50~~	~~19~~	~~0:57~~	~~1~~	~~0.121~~	~~A BB~~	~~215.~~	~~0.644 PPB~~		2	CHLOROMETHANE
3	NOT FOUND									3	BROMOMETHANE
4	NOT FOUND									4	VINYL CHLORIDE
5	NOT FOUND									5	CHLOROETHANE
6	84	90	4:30	1	0.573	A BB	958.	1.467 PPB		6	METHYLENE CHLORIDE
~~7~~	~~43~~	~~111~~	~~5:33~~	~~1~~	~~0.707~~	~~A BB~~	~~1217.~~	~~7.400 PPB~~		7	ACETONE
8	NOT FOUND									8	ACROLEIN
9	NOT FOUND									9	ACRYLONITRILE
10	NOT FOUND									10	CARBON DISULFIDE
11	NOT FOUND									11	TRICHLOROFLUOROMETHANE
12	NOT FOUND									12	1,1-DICHLOROETHENE
14	NOT FOUND									14	1,1-DICHLOROETHANE
15	NOT FOUND									15	TETRAHYDROFURAN
16	NOT FOUND									16	1,2-DICHLOROETHENE (TOTAL)
17	NOT FOUND									17	CHLOROFORM
18	NOT FOUND									18	1,2-DICHLOROETHANE
20	NOT FOUND									20	2-BUTANONE
21	NOT FOUND									21	FREON TF
22	NOT FOUND									22	1,1,1-TRICHLOROETHANE
23	NOT FOUND									23	CARBON TETRACHLORIDE
24	NOT FOUND									24	VINYL ACETATE
25	NOT FOUND									25	BROMODICHLOROMETHANE
26	NOT FOUND									26	1,2-DICHLOROPROPANE
27	NOT FOUND									27	CIS-1,3-DICHLOROPROPENE
28	NOT FOUND									28	TRICHLOROETHENE
29	NOT FOUND									29	DIBROMOCHLOROMETHANE
30	NOT FOUND									30	METHYLCYCLOHEXANE
31	NOT FOUND									31	1,1,2-TRICHLOROETHANE
32	NOT FOUND									32	BENZENE
33	NOT FOUND									33	TRANS-1,3-DICHLOROPROPENE
34	NOT FOUND									34	2-CHLOROETHYLVINYLETHER
35	NOT FOUND									35	BROMOFORM
37	NOT FOUND									37	4-METHYL-2-PENTANONE
38	NOT FOUND									38	2-HEXANONE
39	NOT FOUND									39	1,1,2,2-TETRACHLOROETHANE
40	NOT FOUND									40	TETRACHLOROETHENE
41	NOT FOUND									41	BUTYL ACETATE
~~43~~	~~92~~	~~447~~	~~22:21~~	~~36~~	~~0.959~~	~~A BB~~	~~223.~~	~~0.259 PPB~~		43	TOLUENE
~~44~~	~~112~~	~~468~~	~~23:24~~	~~36~~	~~1.004~~	~~A BB~~	~~178.~~	~~0.135 PPB~~		44	CHLOROBENZENE
45	NOT FOUND									45	ETHYLBENZENE
47	NOT FOUND									47	STYRENE
48	NOT FOUND									48	M-XYLENE
49	NOT FOUND									49	O- & P-XYLENE
50	NOT FOUND									50	O-DICHLOROBENZENE
51	NOT FOUND									51	CYCLOPENTANE
52	NOT FOUND									52	XYLENE (TOTAL)
53	NOT FOUND									53	2-PROPANOL

C114877V 3

Sample: L#114877 CLI#MW-12 5.5'-7.5' ETR#21436 3.03G
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114877 Client ID: MW-12 ETR Number: 21436 Submitted by: ADIENV
Weight: 3.030 g

05/24/90 1045
OWAC -- SPS

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	0:57	0	0.119	1.02	0.64	55.00	0.011	0.936	0.01	2	CHLOROMETHANE
3	1:33		0.194							3	BROMOMETHANE
4	2:03		0.256							4	VINYL CHLORIDE
5	2:45		0.344							5	CHLOROETHANE
6	4:33	3	0.569	1.01	1.47	50.00	0.054	1.832	0.03	6	METHYLENE CHLORIDE
7	5:36	3	0.700	1.01	7.40	50.00	0.068	0.461	0.15	7	ACETONE
8	5:39		0.706							8	ACROLEIN
9	6:18		0.788							9	ACRYLONITRILE
10	6:15		0.781							10	CARBON DISULFIDE
11	6:45		0.844							11	TRICHLOROFLUOROMETHANE
12	7:36		0.950							12	1,1-DICHLOROETHENE
14	8:51		1.106							14	1,1-DICHLOROETHANE
15	9:03		1.131							15	TETRAHYDROFURAN
16	9:45		1.219							16	1,2-DICHLOROETHENE (TOTAL)
17	10:09		1.269							17	CHLOROFORM
18	11:00		1.375							18	1,2-DICHLOROETHANE
20	11:15		1.406							20	2-BUTANONE
21	10:30		0.565							21	FREON TF
22	12:09		0.653							22	1,1,1-TRICHLOROETHANE
23	12:30		0.672							23	CARBON TETRACHLORIDE
24	13:06		0.704							24	VINYL ACETATE
25	13:09		0.707							25	BROMODICHLOROMETHANE
26	14:33		0.782							26	1,2-DICHLOROPROPANE
27	14:54		0.801							27	CIS-1,3-DICHLOROPROPENE
28	15:30		0.833							28	TRICHLOROETHENE
29	15:51		0.852							29	DIBROMOCHLOROMETHANE
30	18:18		0.984							30	METHYLCYCLOHEXANE
31	16:03		0.863							31	1,1,2-TRICHLOROETHANE
32	16:03		0.863							32	BENZENE
33	16:09		0.868							33	TRANS-1,3-DICHLOROPROPENE
34	17:18		0.930							34	2-CHLOROETHYLVINYLETHER
35	18:30		0.995							35	BROMOFORM
37	19:15		0.823							37	4-METHYL-2-PENTANONE
38	20:51		0.891							38	2-HEXANONE
39	20:48		0.889							39	1,1,2,2-TETRACHLOROETHANE
40	21:03		0.900							40	TETRACHLOROETHENE
41	21:57		0.938							41	BUTYL ACETATE
43	22:30	9	0.962	1.00	0.26	50.00	0.003	0.625	0.01	43	TOLUENE
44	23:33	9	1.006	1.00	0.14	50.00	0.003	0.955	0.00	44	CHLOROBENZENE
45	25:21		1.083							45	ETHYLBENZENE
47	28:36		1.222							47	STYRENE
48	28:51		1.233							48	M-XYLENE
49	29:33		1.263							49	O- & P-XYLENE
50	32:51		1.404							50	O-DICHLOROBENZENE
51	8:03		1.006							51	CYCLOPENTANE
52	28:51		1.233							52	XYLENE (TOTAL)
53	7:03		0.881							53	2-PROPANOL

C114877V$_{13}$

Sample: L#114877 CLI#MW-12 5.5'-7.5' ETR#21436 3.03G
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114877 Client ID: MW-12 ETR Number: 21436 Submitted by: ADIENV
Weight: 3.030 g

05/24/90 1045
OWAC -- SPS

Summary of Tentatively Identified Compounds

Rank	Scan	Dec. Time	En.RIC Height	Est. Amount	Ref	Name
ISTD	157	7.85	29248.	50.0	1	BROMOCHLOROMETHANE
ISTD	370	18.50	39744.	50.0	13	1,4-DIFLUOROBENZENE
ISTD	466	23.30	47935.	50.0	36	CHLOROBENZENE-D5

ØNCLs for reporting
Cup

PROCEDURE: TCA DIAGNOSTIC REPORT 5/24/90 11:19:23
DATA FILE: C114877V
REFERENCE: JTAB11
NAME LIST: UM INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: UMRET1

STANDARDS PROC	STANDARDS USED	STANDARDS POSS	STANDARDS RMS	PLUS UNKNOWNS PROC	PLUS UNKNOWNS USED	PLUS UNKNOWNS POSS	PLUS UNKNOWNS RMS	LIST NAMES - STANDARD/UNKNOWN
1	1	1	0	[illegible]	[illegible]	1	0	UMRET1/UMUNK1
2	2	1	0	[illegible]	[illegible]	1	79	UMRET2/UMUNK2
2	2	1	0	[illegible]	[illegible]	1	0	UMRET2/UMUNK3
2	1	1	0	[illegible]	[illegible]	1	78	UMRET3/UMUNK4
1	1	1	0	[illegible]	[illegible]	1	0	UMRET4/UMUNK5

52 COMPOUNDS PROCESSED. 5 FOUND

COMPOUND ID	LIB	ENTRY	REF	PRED	SEARCH SEL	SEARCH DELTA	SEARCH PEAKS	SAT FIT	SAT PEAKS	CHRO M/Z	CHRO TOP	CHRO DELTA	CHRO PEAKS
1	UM	1	-158	157			1	981		128	157		1
2	UM	2	-18	21						50	19		1
3	UM	3	-30	33						94			
4	UM	4	-40	42						62			
5	UM	5	-55	57						64			
6	UM	6	-89	90	90		1	994		84	90		1
7	UM	7	-113	113						43	111		1
8	UM	8	-112	112						56			
9	UM	9	-125	125						53			
10	UM	10	-122	122						76			
11	UM	11	-134	134						101			
12	UM	12	-151	150						96			
13	UM	53	-144	143						45			
14	UM	13	-371	370	370		1	997		114	370		1
15	UM	51	-160	159						55			
16	UM	14	-176	175						63			
17	UM	15	-180	179						71			
18	UM	16	-193	192						96			
19	UM	17	-202	201						83			
20	UM	18	-219	218						62			
21	UM	19	-217	216	215	-1	1	996		65	215		1
22	UM	20	-224	223						72			
23	UM	21	-210	209						101			
24	UM	22	-242	241						97			
25	UM	23	-250	249						117			
26	UM	24	-262	261						43			
27	UM	25	-262	261						83			
28	UM	26	-291	290						63			
29	UM	27	-297	296						75			
30	UM	28	-309	308						130			
31	UM	29	-316	315						129			
32	UM	30	-365	364						98			
33	UM	31	-320	319						97			
34	UM	32	-320	319						78			
35	UM	33	-322	321						75			
36	UM	34	-345	344						63			
37	UM	35	-369	368						173			
38	UM	36	-467	466						117	466		1
39	UM	37	-384	383						43			
40	UM	38	-416	415						43			
41	UM	39	-415	414						83			
42	UM	40	-421	420						164			
43	UM	41	-438	437						56			
44	UM	42	-444	443	444	1	1	996		98	444		1
45	UM	43	-448	447						92	447		1
46	UM	44	-469	468						112	468		1
47	UM	45	-506	505						106			
48	UM	46	-545	544	544		1	995		95	544		1
49	UM	47	-569	568						104			
50	UM	48	-575	574						106			
51	UM	49	-589	588						106			
52	UM	50	-653	652						146			

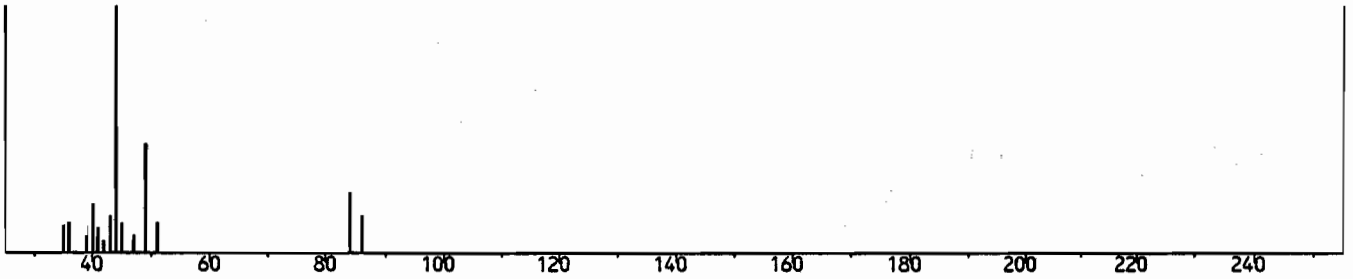
C114877V 6

Sample: L#114877 CLI#MW-12 5.5'-7.5' ETR#21436 3.03G
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114877 Client ID: MW-12 ETR Number: 21436 Submitted by: ADIENV
Weight: 3.030 g

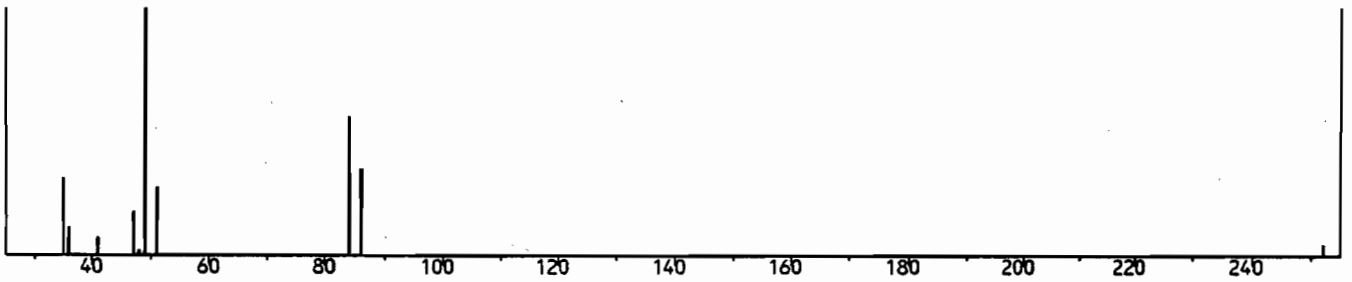
05/24/90 1045
OWAC -- SPS

LIBRARYUM#6 METHYLENE CHLORIDE

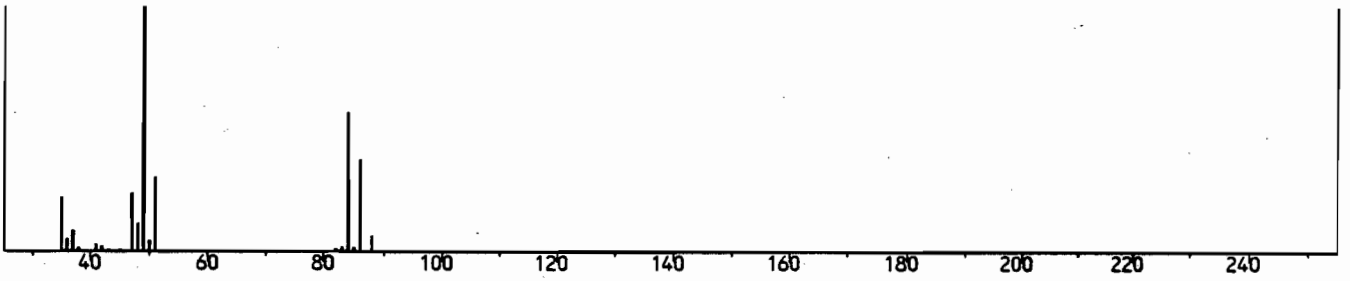
Unenhanced spectrum -- Scan # 90 Base m/z: 44 --- RIC: 3868. Max intensity: 1316



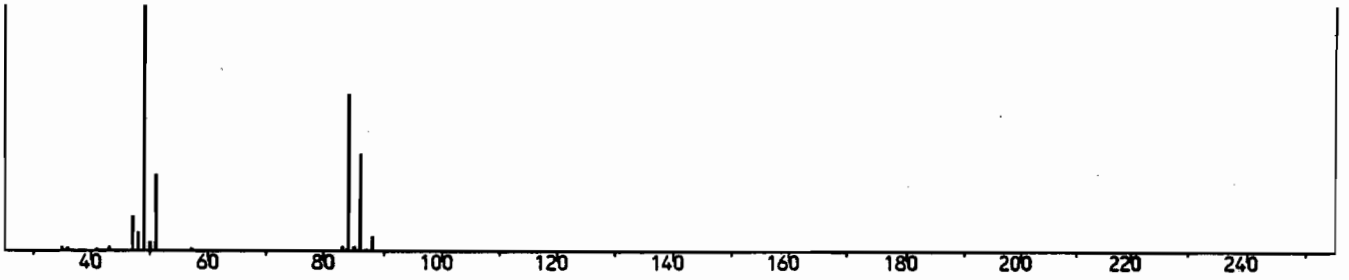
Enhanced (S 15B 2N 0T) -- Scan # 90 Base m/z: 49 --- RIC: 1614. Max intensity: 554



Enhanced CKV050AHV -- Scan # 91 Base m/z: 49 --- RIC: 57152. Max intensity: 17760

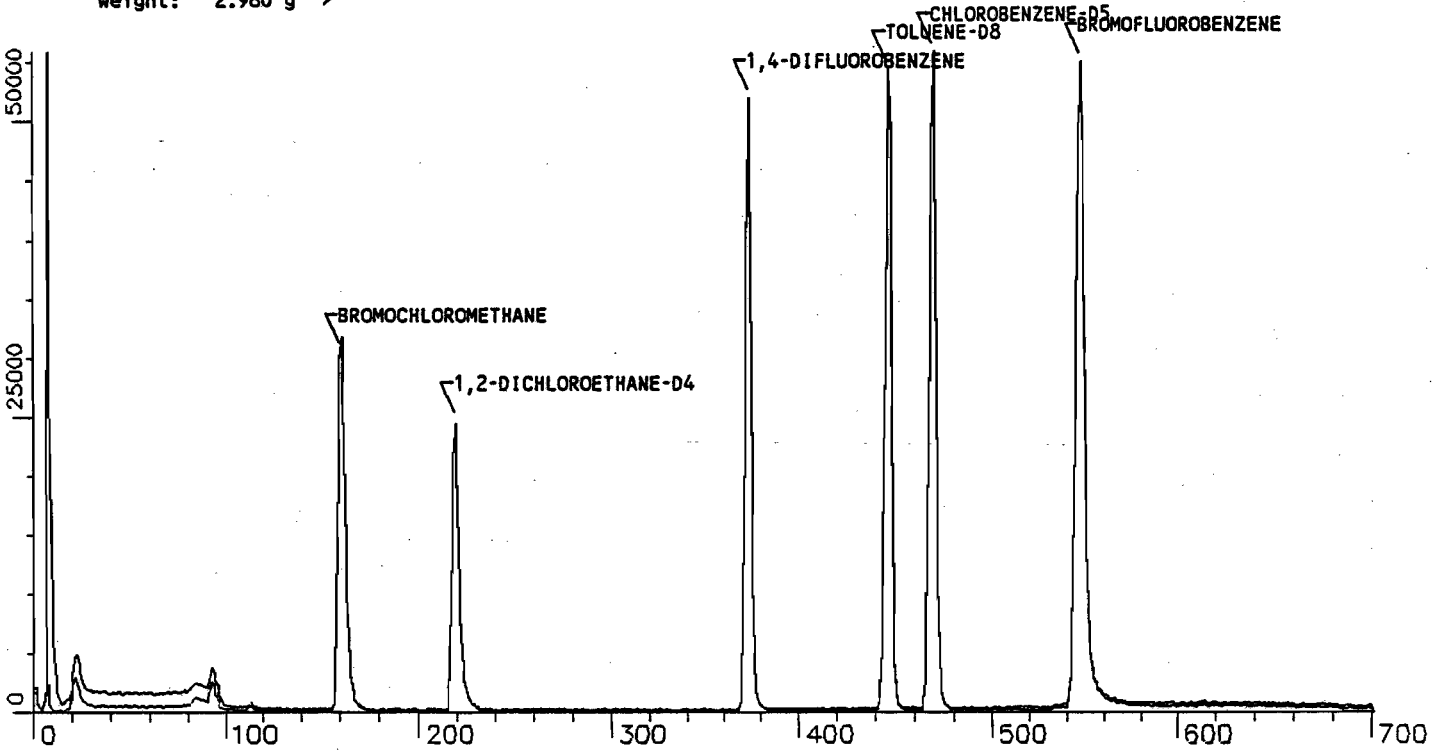


LIBRARYUM#6 CAS: 75-09-2 METHANE, DICHLORO- (CH2Cl2)



C114878V 1

Sample: L#114878 CLI#MW-12 18'-20' ETR#21436 2.98G
05/24/90 1134
Conditions: GC/MS OWAC
OWAC -- SPS
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114878 Client ID: MW-12 ETR Number: 21436 Submitted by: ADIENV
Weight: 2.980 g



No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
1	128	160	8:00	1	1.000	A BB	16615.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	373	18:39	13	1.000	A BB	78161.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	469	23:27	36	1.000	A BB	60485.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	219	10:57	1	1.369	A BB	38984.	53.166 PPB	106.3	19	1,2-DICHLOROETHANE-D4
42	98	446	22:18	36	0.951	A BB	72376.	54.990 PPB	110.0	42	TOLUENE-D8
46	95	547	27:21	36	1.166	A BB	48149.	46.367 PPB	92.7	46	BROMOFLUOROBENZENE

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
1	8:00	0	1.000	1.00	50.00	50.00	1.000	1.000	1.00	1	BROMOCHLOROMETHANE
13	18:36	-3	1.000	1.00	50.00	50.00	1.000	1.000	1.00	13	1,4-DIFLUOROBENZENE
36	23:24	-3	1.000	1.00	50.00	50.00	1.000	1.000	1.00	36	CHLOROBENZENE-D5
19	10:54	-3	1.362	1.00	53.17	50.00	2.346	2.207	1.06	19	1,2-DICHLOROETHANE-D4
42	22:18	0	0.953	1.00	54.99	50.00	1.197	1.088	1.10	42	TOLUENE-D8
46	27:21	0	1.169	1.00	46.37	50.00	0.796	0.858	0.93	46	BROMOFLUOROBENZENE

CKV050AHV (05/24/90 4:51) RFs loaded on OWAC 5/24/90 5:47:24

Sample: L#114878 CLI#MW-12 18'-20' ETR#21436 2.98G
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114878 Client ID: MW-12 ETR Number: 21436 Submitted by: ADIENV
Weight: 2.980 g

05/24/90 1134
OWAC -- SPS

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
2	NOT FOUND									2	CHLOROMETHANE
3	NOT FOUND									3	BROMOMETHANE
4	NOT FOUND									4	VINYL CHLORIDE
5	NOT FOUND									5	CHLOROETHANE
6	84	93	4:39	1	0.581	A BB	1038.	1.705 PPB		6	METHYLENE CHLORIDE
7	NOT FOUND									7	ACETONE
8	NOT FOUND									8	ACROLEIN
9	NOT FOUND									9	ACRYLONITRILE
10	NOT FOUND									10	CARBON DISULFIDE
11	NOT FOUND									11	TRICHLOROFLUOROMETHANE
12	NOT FOUND									12	1,1-DICHLOROETHENE
14	NOT FOUND									14	1,1-DICHLOROETHANE
15	NOT FOUND									15	TETRAHYDROFURAN
16	NOT FOUND									16	1,2-DICHLOROETHENE (TOTAL)
17	NOT FOUND									17	CHLOROFORM
18	NOT FOUND									18	1,2-DICHLOROETHANE
20	NOT FOUND									20	2-BUTANONE
21	NOT FOUND									21	FREON TF
22	NOT FOUND									22	1,1,1-TRICHLOROETHANE
23	NOT FOUND									23	CARBON TETRACHLORIDE
24	NOT FOUND									24	VINYL ACETATE
25	NOT FOUND									25	BROMODICHLOROMETHANE
26	NOT FOUND									26	1,2-DICHLOROPROPANE
27	NOT FOUND									27	CIS-1,3-DICHLOROPROPENE
28	NOT FOUND									28	TRICHLOROETHENE
29	NOT FOUND									29	DIBROMOCHLOROMETHANE
30	NOT FOUND									30	METHYLCYCLOHEXANE
31	NOT FOUND									31	1,1,2-TRICHLOROETHANE
32	NOT FOUND									32	BENZENE
33	NOT FOUND									33	TRANS-1,3-DICHLOROPROPENE
34	NOT FOUND									34	2-CHLOROETHYLVINYLETHER
35	NOT FOUND									35	BROMOFORM
37	NOT FOUND									37	4-METHYL-2-PENTANONE
38	NOT FOUND									38	2-HEXANONE
39	NOT FOUND									39	1,1,2,2-TETRACHLOROETHANE
40	NOT FOUND									40	TETRACHLOROETHENE
41	NOT FOUND									41	BUTYL ACETATE
43	NOT FOUND									43	TOLUENE
44	NOT FOUND									44	CHLOROBENZENE
45	NOT FOUND									45	ETHYLBENZENE
47	NOT FOUND									47	STYRENE
48	NOT FOUND									48	M-XYLENE
49	NOT FOUND									49	O- & P-XYLENE
50	NOT FOUND									50	O-DICHLOROBENZENE
51	NOT FOUND									51	CYCLOPENTANE
52	NOT FOUND									52	XYLENE (TOTAL)
53	NOT FOUND									53	2-PROPANOL

C114878V 3

Sample: L#114878 CLI#MW-12 18'-20' ETR#21436 2.98G
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114878 Client ID: MW-12 ETR Number: 21436 Submitted by: ADIENV
Weight: 2.980 g

05/24/90 1134
OWAC -- SPS

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	0:57		0.119							2	CHLOROMETHANE
3	1:33		0.194							3	BROMOMETHANE
4	2:03		0.256							4	VINYL CHLORIDE
5	2:45		0.344							5	CHLOROETHANE
6	4:33	-6	0.569	1.02	1.70	50.00	0.062	1.832	0.03	6	METHYLENE CHLORIDE
7	5:36		0.700							7	ACETONE
8	5:39		0.706							8	ACROLEIN
9	6:18		0.788							9	ACRYLONITRILE
10	6:15		0.781							10	CARBON DISULFIDE
11	6:45		0.844							11	TRICHLOROFLUOROMETHANE
12	7:36		0.950							12	1,1-DICHLOROETHENE
14	8:51		1.106							14	1,1-DICHLOROETHANE
15	9:03		1.131							15	TETRAHYDROFURAN
16	9:45		1.219							16	1,2-DICHLOROETHENE (TOTAL)
17	10:09		1.269							17	CHLOROFORM
18	11:00		1.375							18	1,2-DICHLOROETHANE
20	11:15		1.406							20	2-BUTANONE
21	10:30		0.565							21	FREON TF
22	12:09		0.653							22	1,1,1-TRICHLOROETHANE
23	12:30		0.672							23	CARBON TETRACHLORIDE
24	13:06		0.704							24	VINYL ACETATE
25	13:09		0.707							25	BROMODICHLOROMETHANE
26	14:33		0.782							26	1,2-DICHLOROPROPANE
27	14:54		0.801							27	CIS-1,3-DICHLOROPROPENE
28	15:30		0.833							28	TRICHLOROETHENE
29	15:51		0.852							29	DIBROMOCHLOROMETHANE
30	18:18		0.984							30	METHYLCYCLOHEXANE
31	16:03		0.863							31	1,1,2-TRICHLOROETHANE
32	16:03		0.863							32	BENZENE
33	16:09		0.868							33	TRANS-1,3-DICHLOROPROPENE
34	17:18		0.930							34	2-CHLOROETHYLVINYLETHER
35	18:30		0.995							35	BROMOFORM
37	19:15		0.823							37	4-METHYL-2-PENTANONE
38	20:51		0.891							38	2-HEXANONE
39	20:48		0.889							39	1,1,2,2-TETRACHLOROETHANE
40	21:03		0.900							40	TETRACHLOROETHENE
41	21:57		0.938							41	BUTYL ACETATE
43	22:30		0.962							43	TOLUENE
44	23:33		1.006							44	CHLOROBENZENE
45	25:21		1.083							45	ETHYLBENZENE
47	28:36		1.222							47	STYRENE
48	28:51		1.233							48	M-XYLENE
49	29:33		1.263							49	O- & P-XYLENE
50	32:51		1.404							50	O-DICHLOROBENZENE
51	8:03		1.006							51	CYCLOPENTANE
52	28:51		1.233							52	XYLENE (TOTAL)
53	7:03		0.881							53	2-PROPANOL

C114878V$_{14}$

Sample: L#114878 CLI#MW-12 18'-20' ETR#21436 2.98G
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114878 Client ID: MW-12 ETR Number: 21436 Submitted by: ADIENV
Weight: 2.980 g

05/24/90 1134
OWAC -- SPS

Summary of Tentatively Identified Compounds

Rank	Scan	Dec. Time	En.RIC Height	Est. Amount	Ref	Name
~~1~~	~~8~~	~~0.40~~	~~55359.~~	~~104.0~~	~~1~~	~~UNKNOWN~~ CO_2
~~2~~	~~22~~	~~1.10~~	~~3335.~~	~~6.3~~	~~1~~	~~UNKNOWN~~ $CO_2 + CH Cl_2 F_2$ <10%
ISTD	161	8.05	26624.	50.0	1	BROMOCHLOROMETHANE
ISTD	373	18.65	36352.	50.0	13	1,4-DIFLUOROBENZENE
ISTD	469	23.45	42427.	50.0	36	CHLOROBENZENE-D5

Ø TIC's for reporting
cip

PROCEDURE: TCA DIAGNOSTIC REPORT 5/24/90 12:12:25
DATA FILE: C114878V
REFERENCE: JTA811
NAME LIST: UM INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: UMRET1

PROC	STANDARDS USED	POSS	RMS	PROC	PLUS UNKNOWNS USED	POSS	RMS	LIST NAMES - STANDARD/UNKNOWN
1	1	1	0	1	1	1	202	UMRET1/UMUNK1
2	2	1	0	1	1	1	57	UMRET2/UMUNK2
2	2	1	0	1	1	1	0	UMRET2/UMUNK3
3	1	1	0	3	1	1	59	UMRET3/UMUNK4
4	1	1	0	4	1	1	0	UMRET4/UMUNK5

52 COMPOUNDS PROCESSED, 7 FOUND

COMPOUND NO	LIB	ENTRY	REF	PRED	SEARCH SEL	DELTA	PEAKS	FIT	SAT PEAKS	CHRO M/Z	TOP	DELTA	PEAKS
1	UM	1	-158	161	161	.	1	980	.	128	160	-1	1
2	UM	2	-18	24	.	.	.	.	.	50	.	.	.
3	UM	3	-30	36	.	.	.	.	.	94	.	.	.
4	UM	4	-40	46	.	.	.	.	.	62	.	.	.
5	UM	5	-55	60	.	.	.	.	.	64	.	.	.
6	UM	6	-89	94	93	-1	1	992	.	84	93	.	1
7	UM	7	-113	117	.	.	.	.	.	43	.	.	.
8	UM	8	-112	117	.	.	.	.	.	56	.	.	.
9	UM	9	-125	129	.	.	.	.	.	53	.	.	.
10	UM	10	-122	126	123	2	1	1000	.	76	.	.	.
11	UM	11	-134	138	.	.	.	.	.	101	.	.	.
12	UM	12	-151	155	.	.	.	.	.	96	.	.	.
13	UM	53	-144	148	.	.	.	.	.	45	.	.	.
14	UM	13	-371	375	373	.	1	996	.	114	373	.	1
15	UM	51	-160	165	.	.	.	.	.	55	.	.	.
16	UM	14	-176	179	.	.	.	.	.	63	.	.	.
17	UM	15	-180	183	.	.	.	.	.	71	.	.	.
18	UM	16	-193	196	.	.	.	.	.	96	.	.	.
19	UM	17	-202	205	.	.	.	.	.	83	.	.	.
20	UM	18	-219	221	.	.	.	.	.	62	.	.	.
21	UM	19	-217	219	219	.	1	996	.	65	219	.	1
22	UM	20	-224	226	.	.	.	.	.	72	.	.	.
23	UM	21	-210	212	.	.	.	.	.	101	.	.	.
24	UM	22	-242	244	.	.	.	.	.	97	.	.	.
25	UM	23	-250	252	.	.	.	.	.	117	.	.	.
26	UM	24	-262	264	.	.	.	.	.	43	.	.	.
27	UM	25	-262	265	.	.	.	.	.	83	.	.	.
28	UM	26	-291	293	.	.	.	.	.	63	.	.	.
29	UM	27	-297	299	.	.	.	.	.	75	.	.	.
30	UM	28	-309	311	.	.	.	.	.	130	.	.	.
31	UM	29	-316	318	.	.	.	.	.	129	.	.	.
32	UM	30	-365	367	.	.	.	.	.	98	.	.	.
33	UM	31	-320	322	.	.	.	.	.	97	.	.	.
34	UM	32	-320	322	.	.	.	.	.	78	.	.	.
35	UM	33	-322	324	.	.	.	.	.	75	.	.	.
36	UM	34	-345	347	.	.	.	.	.	63	.	.	.
37	UM	35	-369	371	.	.	.	.	.	173	.	.	.
38	UM	36	-467	470	.	.	.	.	.	117	469	.	1
39	UM	37	-384	386	.	.	.	.	.	43	.	.	.
40	UM	38	-416	418	.	.	.	.	.	43	.	.	.
41	UM	39	-415	417	.	.	.	.	.	83	.	.	.
42	UM	40	-421	423	.	.	.	.	.	164	.	.	.
43	UM	41	-438	440	.	.	.	.	.	56	.	.	.
44	UM	42	-444	446	446	.	1	995	.	98	446	.	1
45	UM	43	-448	450	.	.	.	.	.	92	.	.	.
46	UM	44	-469	471	.	.	.	.	.	112	.	.	.
47	UM	45	-506	508	.	.	.	.	.	106	.	.	.
48	UM	46	-545	547	547	.	1	998	.	95	547	.	1
49	UM	47	-569	571	.	.	.	.	.	104	.	.	.
50	UM	48	-575	577	.	.	.	.	.	106	.	.	.
51	UM	49	-589	591	.	.	.	.	.	106	.	.	.
52	UM	50	-653	655	.	.	.	.	.	146	.	.	.

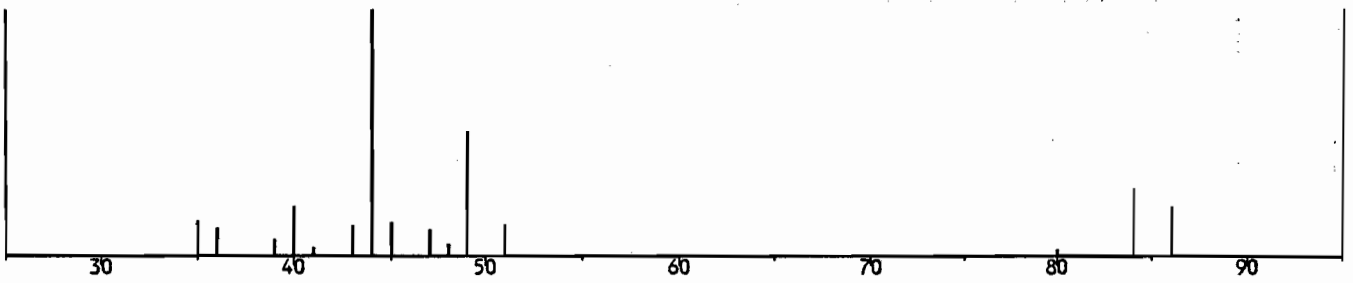
C114878V 6

Sample: L#114878 CLI#MW-12 18'-20' ETR#21436 2.98G
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114878 Client ID: MW-12 ETR Number: 21436 Submitted by: ADIENV
Weight: 2.980 g

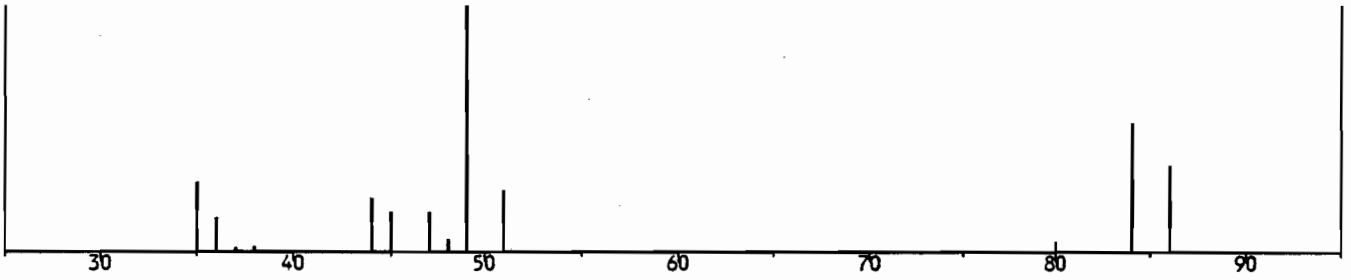
05/24/90 1134
OWAC -- SPS

LIBRARYUM#6 METHYLENE CHLORIDE

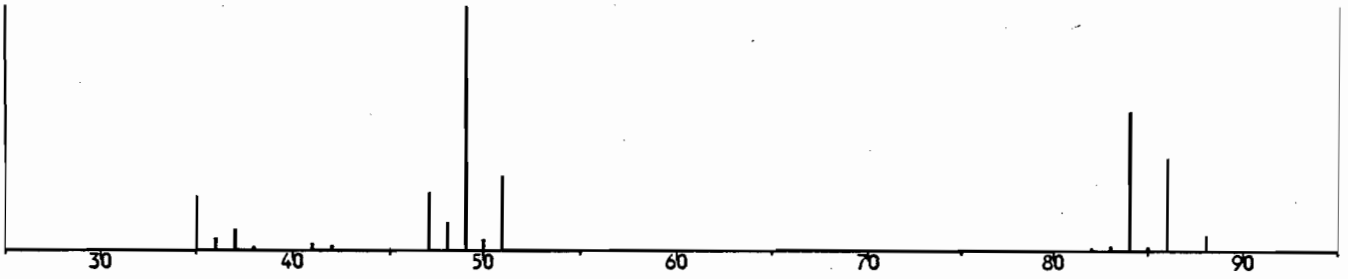
Unenhanced spectrum -- Scan # 93 Base m/z: 44 --- RIC: 3752. Max intensity: 1206



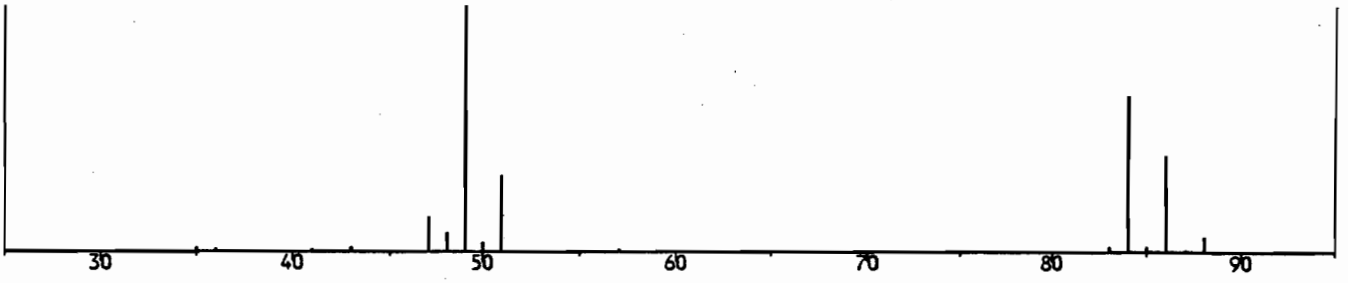
Enhanced (S 15B 2N 0T) -- Scan # 93 Base m/z: 49 --- RIC: 1934. Max intensity: 604



Enhanced CKV050AHV -- Scan # 91 Base m/z: 49 --- RIC: 57152. Max intensity: 17760



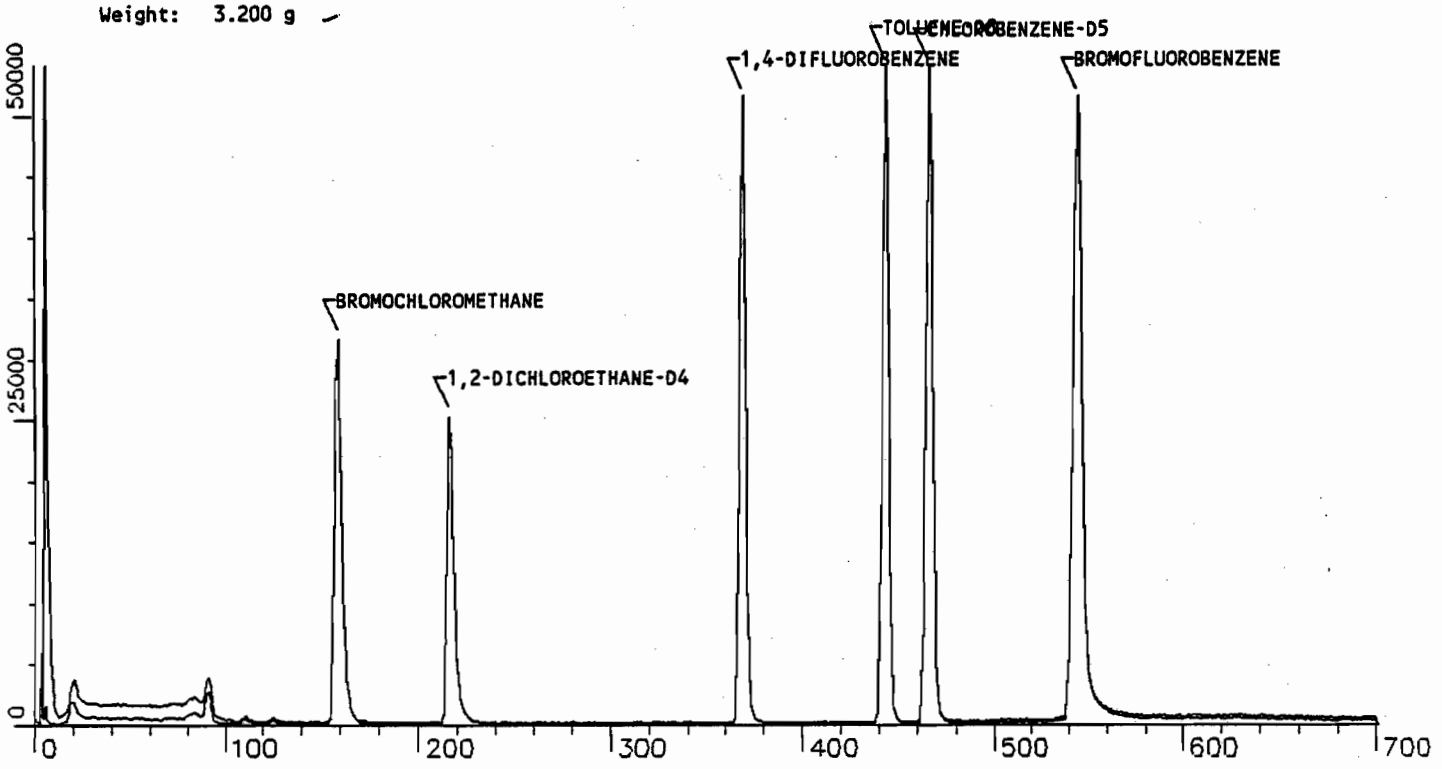
LIBRARYUM#6 CAS: 75-09-2 METHANE, DICHLORO- (CH2Cl2)



C114879V 1

Sample: L#114879 CLI#MW-13,34-34.5 ETR#21436 3.20GRAMS
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114879 Client ID: MW-13,34-34.5 ETR Number: 21436 Submitted by: ADIENV
Weight: 3.200 g

05/24/90 1238
OWAC -- CMP



No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
1	128	159	7:57	1	1.000	A BB	16400.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	369	18:27	13	1.000	A BB	76503.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	466	23:18	36	1.000	A BB	57255.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	216	10:48	1	1.358	A BB	39640.	54.770 PPB	109.5	19	1,2-DICHLOROETHANE-D4
42	98	443	22:09	36	0.951	A BB	72845.	58.469 PPB	116.9	42	TOLUENE-D8
46	95	544	27:12	36	1.167	A BB	43727.	44.485 PPB	89.0	46	BROMOFLUOROBENZENE

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
1	8:00	3	1.000	1.00	50.00	50.00	1.000	1.000	1.00	1	BROMOCHLOROMETHANE
13	18:36	9	1.000	1.00	50.00	50.00	1.000	1.000	1.00	13	1,4-DIFLUOROBENZENE
36	23:24	6	1.000	1.00	50.00	50.00	1.000	1.000	1.00	36	CHLOROBENZENE-D5
19	10:54	6	1.362	1.00	54.77	50.00	2.417	2.207	1.10	19	1,2-DICHLOROETHANE-D4
42	22:18	9	0.953	1.00	58.47	50.00	1.272	1.088	1.17	42	TOLUENE-D8
46	27:21	9	1.169	1.00	44.48	50.00	0.764	0.858	0.89	46	BROMOFLUOROBENZENE

CKV050AHV (05/24/90 4:51) RFs loaded on OWAC 5/24/90 5:47:24

C114879V 2

05/24/90 1238
OWAC -- CMP

Sample: L#114879 CLI#MW-13,34-34.5 ETR#21436 3.20GRAMS
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114879 Client ID: MW-13,34-34.5 ETR Number: 21436 Submitted by: ADIENV
Weight: 3.200 g

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
2	NOT FOUND									2	CHLOROMETHANE
3	NOT FOUND									3	BROMOMETHANE
4	NOT FOUND									4	VINYL CHLORIDE
5	NOT FOUND									5	CHLOROETHANE
6	84	90	4:30	1	0.566	A BB	1106.	1.840 PPB		6	METHYLENE CHLORIDE
7	NOT FOUND									7	ACETONE
8	NOT FOUND									8	ACROLEIN
9	NOT FOUND									9	ACRYLONITRILE
~~10~~	~~76~~	~~125~~	~~6:15~~	~~1~~	~~0.786~~	~~A BB~~	~~784.~~	~~1.028 PPB~~		10	CARBON DISULFIDE
11	NOT FOUND									11	TRICHLOROFLUOROMETHANE
12	NOT FOUND									12	1,1-DICHLOROETHENE
14	NOT FOUND									14	1,1-DICHLOROETHANE
15	NOT FOUND									15	TETRAHYDROFURAN
16	NOT FOUND									16	1,2-DICHLOROETHENE (TOTAL)
17	NOT FOUND									17	CHLOROFORM
18	NOT FOUND									18	1,2-DICHLOROETHANE
20	NOT FOUND									20	2-BUTANONE
21	NOT FOUND									21	FREON TF
22	NOT FOUND									22	1,1,1-TRICHLOROETHANE
23	NOT FOUND									23	CARBON TETRACHLORIDE
24	NOT FOUND									24	VINYL ACETATE
25	NOT FOUND									25	BROMODICHLOROMETHANE
26	NOT FOUND									26	1,2-DICHLOROPROPANE
27	NOT FOUND									27	CIS-1,3-DICHLOROPROPENE
28	NOT FOUND									28	TRICHLOROETHENE
29	NOT FOUND									29	DIBROMOCHLOROMETHANE
30	NOT FOUND									30	METHYLCYCLOHEXANE
31	NOT FOUND									31	1,1,2-TRICHLOROETHANE
32	NOT FOUND									32	BENZENE
33	NOT FOUND									33	TRANS-1,3-DICHLOROPROPENE
34	NOT FOUND									34	2-CHLOROETHYLVINYLETHER
35	NOT FOUND									35	BROMOFORM
37	NOT FOUND									37	4-METHYL-2-PENTANONE
38	NOT FOUND									38	2-HEXANONE
39	NOT FOUND									39	1,1,2,2-TETRACHLOROETHANE
40	NOT FOUND									40	TETRACHLOROETHENE
41	NOT FOUND									41	BUTYL ACETATE
43	NOT FOUND									43	TOLUENE
44	NOT FOUND									44	CHLOROBENZENE
45	NOT FOUND									45	ETHYLBENZENE
47	NOT FOUND									47	STYRENE
48	NOT FOUND									48	M-XYLENE
49	NOT FOUND									49	O- & P-XYLENE
50	NOT FOUND									50	O-DICHLOROBENZENE
51	NOT FOUND									51	CYCLOPENTANE
52	NOT FOUND									52	XYLENE (TOTAL)
53	NOT FOUND									53	2-PROPANOL

C114879V 3

05/24/90 1238
OWAC -- CMP

Sample: L#114879 CLI#MW-13,34-34.5 ETR#21436 3.20GRAMS
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114879 Client ID: MW-13,34-34.5 ETR Number: 21436 Submitted by: ADIENV
Weight: 3.200 g

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	0:57		0.119							2	CHLOROMETHANE
3	1:33		0.194							3	BROMOMETHANE
4	2:03		0.256							4	VINYL CHLORIDE
5	2:45		0.344							5	CHLOROETHANE
6	4:33	3	0.569	1.00	1.84	50.00	0.067	1.832	0.04	6	METHYLENE CHLORIDE
7	5:36		0.700							7	ACETONE
8	5:39		0.706							8	ACROLEIN
9	6:18		0.788							9	ACRYLONITRILE
10	6:15	0	0.781	1.01	1.03	50.00	0.048	2.326	0.02	10	CARBON DISULFIDE
11	6:45		0.844							11	TRICHLOROFLUOROMETHANE
12	7:36		0.950							12	1,1-DICHLOROETHENE
14	8:51		1.106							14	1,1-DICHLOROETHANE
15	9:03		1.131							15	TETRAHYDROFURAN
16	9:45		1.219							16	1,2-DICHLOROETHENE (TOTAL)
17	10:09		1.269							17	CHLOROFORM
18	11:00		1.375							18	1,2-DICHLOROETHANE
20	11:15		1.406							20	2-BUTANONE
21	10:30		0.565							21	FREON TF
22	12:09		0.653							22	1,1,1-TRICHLOROETHANE
23	12:30		0.672							23	CARBON TETRACHLORIDE
24	13:06		0.704							24	VINYL ACETATE
25	13:09		0.707							25	BROMODICHLOROMETHANE
26	14:33		0.782							26	1,2-DICHLOROPROPANE
27	14:54		0.801							27	CIS-1,3-DICHLOROPROPENE
28	15:30		0.833							28	TRICHLOROETHENE
29	15:51		0.852							29	DIBROMOCHLOROMETHANE
30	18:18		0.984							30	METHYLCYCLOHEXANE
31	16:03		0.863							31	1,1,2-TRICHLOROETHANE
32	16:03		0.863							32	BENZENE
33	16:09		0.868							33	TRANS-1,3-DICHLOROPROPENE
34	17:18		0.930							34	2-CHLOROETHYLVINYLETHER
35	18:30		0.995							35	BROMOFORM
37	19:15		0.823							37	4-METHYL-2-PENTANONE
38	20:51		0.891							38	2-HEXANONE
39	20:48		0.889							39	1,1,2,2-TETRACHLOROETHANE
40	21:03		0.900							40	TETRACHLOROETHENE
41	21:57		0.938							41	BUTYL ACETATE
43	22:30		0.962							43	TOLUENE
44	23:33		1.006							44	CHLOROBENZENE
45	25:21		1.083							45	ETHYLBENZENE
47	28:36		1.222							47	STYRENE
48	28:51		1.233							48	M-XYLENE
49	29:33		1.263							49	O- & P-XYLENE
50	32:51		1.404							50	O-DICHLOROBENZENE
51	8:03		1.006							51	CYCLOPENTANE
52	28:51		1.233							52	XYLENE (TOTAL)
53	7:03		0.881							53	2-PROPANOL

C114879V$_{13}$

Sample: L#114879 CLI#MW-13,34-34.5 ETR#21436 3.20GRAMS
05/24/90 1238
Conditions: GC/MS OWAC
OWAC -- CMP
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114879 Client ID: MW-13,34-34.5 ETR Number: 21436 Submitted by: ADIENV
Weight: 3.200 g

Summary of Tentatively Identified Compounds

Rank	Scan	Dec. Time	En.RIC Height	Est. Amount	Ref	Name
ISTD	159	7.95	26688.	50.0	1	BROMOCHLOROMETHANE
ISTD	369	18.45	35840.	50.0	13	1,4-DIFLUOROBENZENE
ISTD	466	23.30	41609.	50.0	36	CHLOROBENZENE-D5

ϕ TIC's for reporting
cp

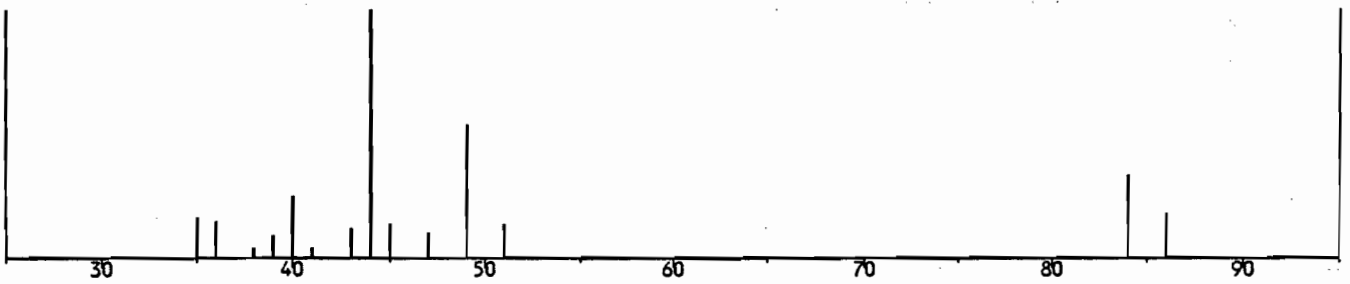
C114879V 6

Sample: L#114879 CLI#MW-13,34-34.5 ETR#21436 3.20GRAMS
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114879 Client ID: MW-13,34-34.5 ETR Number: 21436 Submitted by: ADIENV
Weight: 3.200 g

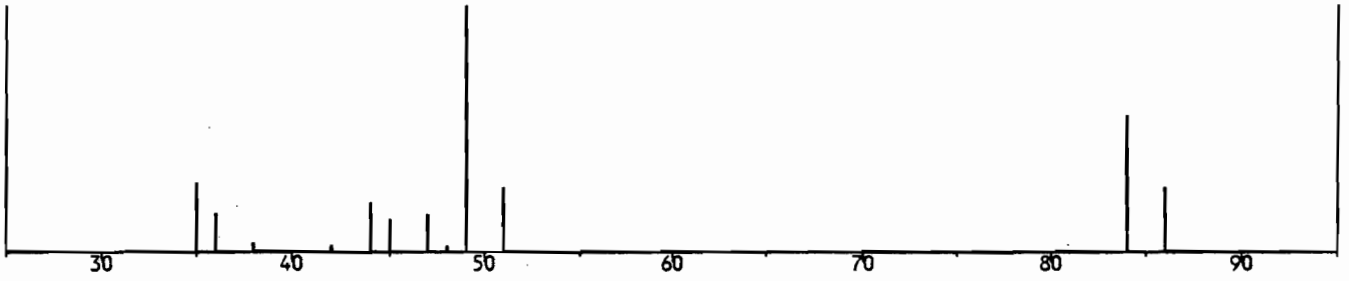
05/24/90 1238
OWAC -- CMP

LIBRARYUM#6 METHYLENE CHLORIDE

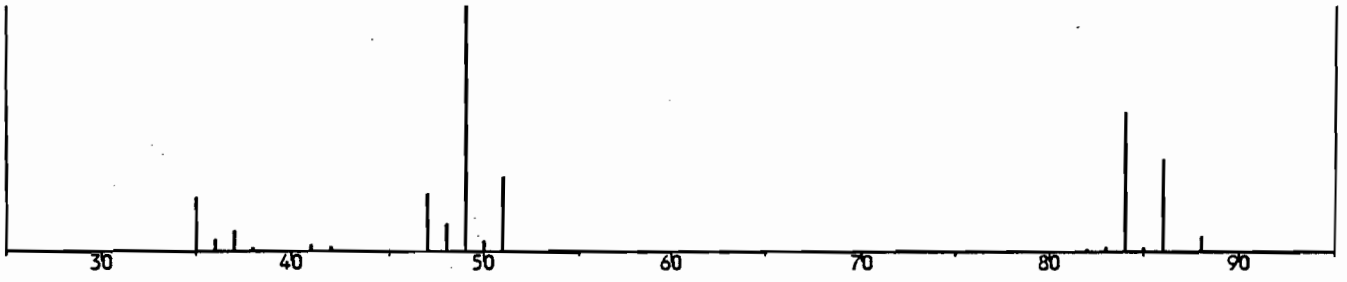
Unenhanced spectrum -- Scan # 90 Base m/z: 44 --- RIC: 3744. Max intensity: 1148



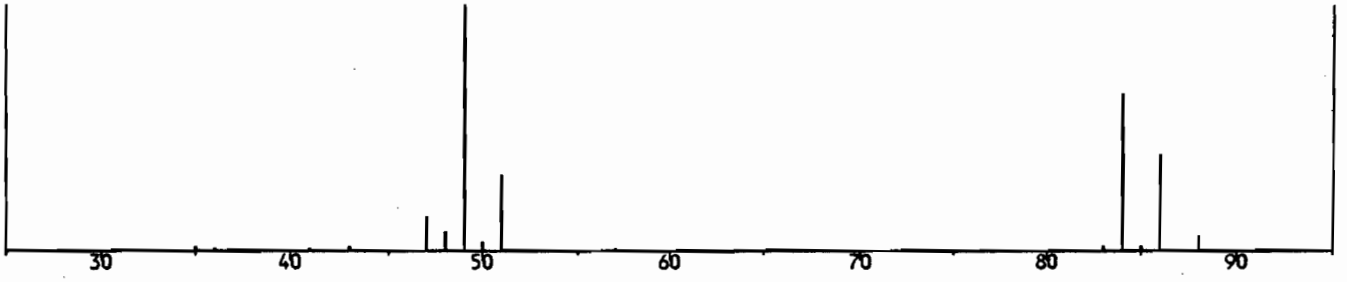
Enhanced (S 15B 2N 0T) -- Scan # 90 Base m/z: 49 --- RIC: 1932. Max intensity: 623



Enhanced CKV050AHV -- Scan # 91 Base m/z: 49 --- RIC: 57152. Max intensity: 17760



LIBRARYUM#6 CAS: 75-09-2 METHANE, DICHLORO- (CH2Cl2)



PROCEDURE: TCA DIAGNOSTIC REPORT 5/24/90 13:14:38
DATA FILE: C114879V
REFERENCE: JTAB11
NAME LIST: UM INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: UMRET1

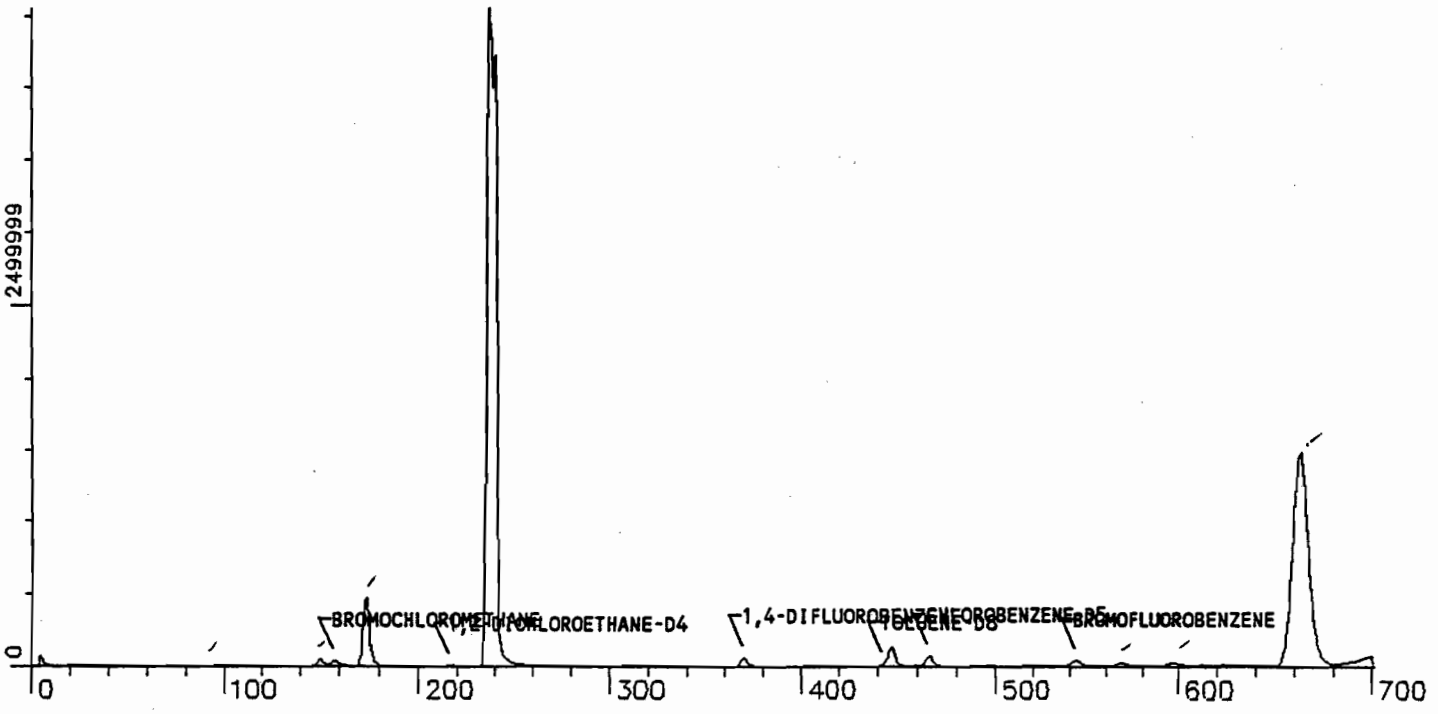
STANDARDS PROC	STANDARDS USED	STANDARDS POSS	STANDARDS RMS	PLUS UNKNOWNS PROC	PLUS UNKNOWNS USED	PLUS UNKNOWNS POSS	PLUS UNKNOWNS RMS	LIST NAMES STANDARD/UNKNOWN
1	1	1	0	1	1	1	121	UMRET1/UMUNK1
2	2	1	0	1	1	1	92	UMRET2/UMUNK2
2	2	1	0	1	1	1	0	UMRET2/UMUNK3
2	2	1	0	1	1	1	19	UMRET3/UMUNK4
1	1	1	0	1	1	1	0	UMRET4/UMUNK5

52 COMPOUNDS PROCESSED: 8 FOUND

COMPOUND NO	COMPOUND LIB	COMPOUND ENTRY	SEARCH REF	SEARCH PRED	SEARCH SEL	SEARCH DELTA	SEARCH PEAKS	SAT FIT	SAT PEAKS	CHRO M/Z	CHRO TOP	CHRO DELTA	CHRO PEAKS
1	UM	1	-158	158	158		1	978		128	159		1
2	UM	2	-18	20						50			
3	UM	3	-30	33						94			
4	UM	4	-40	40						62			
5	UM	5	-55	56						64			
6	UM	6	-89	90	91	-1	1	996		84	90	-1	1
7	UM	7	-113	115						43			
8	UM	8	-112	114						56			
9	UM	9	-125	127						53			
10	UM	10	-122	124	125	1	1	1000		76	125		1
11	UM	11	-134	136						101			
12	UM	12	-151	153						96			
13	UM	53	-144	146						45			
14	UM	13	-371	369	369		1	993		114	369		1
15	UM	51	-160	160						55			
16	UM	14	-176	176						63			
17	UM	15	-180	180						71			
18	UM	16	-193	193						96			
19	UM	17	-202	203						83			
20	UM	18	-219	219						62			
21	UM	19	-217	217	216	-1	1	998		65	216		1
22	UM	20	-224	224						72			
23	UM	21	-210	210						101			
24	UM	22	-242	241						97			
25	UM	23	-250	249						117			
26	UM	24	-262	261						43			
27	UM	25	-262	265						83			
28	UM	26	-291	290						63			
29	UM	27	-297	296						75			
30	UM	28	-309	308						130			
31	UM	29	-316	316						129			
32	UM	30	-365	362						98			
33	UM	31	-320	319						97			
34	UM	32	-320	319						78			
35	UM	33	-322	321						75			
36	UM	34	-345	343						63			
37	UM	35	-369	367						173			
38	UM	36	-467	466	466		1	989		117	466		1
39	UM	37	-384	382						43			
40	UM	38	-416	415						43			
41	UM	39	-415	414						83			
42	UM	40	-421	420						164			
43	UM	41	-438	437						56			
44	UM	42	-444	443	443		1	993		98	443		1
45	UM	43	-448	447						92			
46	UM	44	-469	468						112			
47	UM	45	-506	505						106			
48	UM	46	-545	544	544		1	995		95	544		1
49	UM	47	-569	568						104			
50	UM	48	-575	574						106			
51	UM	49	-589	588						106			
52	UM	50	-653	652						146			

C114880EV 1

Sample: L#114880 CLI#SEPTIC_SLUDGE ETR#21436 4.17G/10ML->25UL/5ML 05/24/90 2243
Conditions: GC/MS OWAC OWAC -- CMS
Method: 8240-4 Matrix: MED SOIL Lab ID: 114880 Client ID: SEPTIC_SLUDGE ETR Number: 21436 Submitted by: ADIENV
Weight: 4.170 g



No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
1	128	157	7:51	1	1.000	A BB	19799.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	370	18:30	13	1.000	A BB	89143.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	466	23:18	36	1.000	A BB	76393.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	216	10:48	1	1.376	A BB	9811.	11.606 PPB	23.2	19	1,2-DICHLOROETHANE-D4
42	98	443	22:09	36	0.951	A BB	18692.	11.461 PPB	22.9	42	TOLUENE-D8
46	95	544	27:12	36	1.167	A VB	17254.	13.321 PPB	26.6	46	BROMOFLUOROBENZENE

~~ppb~~ x4
92.8
91.6
106.~~4~~6

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
1	8:00	9	1.000	1.00	50.00	50.00	1.000	1.000	1.00	1	BROMOCHLOROMETHANE
13	18:33	3	1.000	1.00	50.00	50.00	1.000	1.000	1.00	13	1,4-DIFLUOROBENZENE
36	23:21	3	1.000	1.00	50.00	50.00	1.000	1.000	1.00	36	CHLOROBENZENE-D5
19	10:51	3	1.356	1.01	11.61	50.00	0.496	2.135	~~0.25~~	19	1,2-DICHLOROETHANE-D4
42	22:15	6	0.953	1.00	11.46	50.00	0.245	1.067	~~0.25~~	42	TOLUENE-D8
46	27:15	3	1.167	1.00	13.32	50.00	0.226	0.848	~~0.27~~	46	BROMOFLUOROBENZENE

93
92
~~107~~ 107 cip
cip

CKV050BHV (05/24/90 18:52) RFs loaded on MSDP1 6/05/90 14:24:57

C114880EV 2

Sample: L#114880 CLI#SEPTIC_SLUDGE ETR#21436 4.17G/10ML->25UL/5ML
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: MED SOIL Lab ID: 114880 Client ID: SEPTIC_SLUDGE ETR Number: 21436 Submitted by: ADIENV
Weight: 4.170 g

05/24/90 2243
OWAC -- CMS

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
2	NOT FOUND									2	CHLOROMETHANE
3	NOT FOUND									3	BROMOMETHANE
4	NOT FOUND									4	VINYL CHLORIDE
5	NOT FOUND									5	CHLOROETHANE
6	84	90	4:30	1	0.573	A BB	2235.	3.035 PPB		6	METHYLENE CHLORIDE
~~7~~	~~43~~	~~111~~	~~5:33~~	~~1~~	~~0.707~~	~~A BB~~	~~1093.~~	~~7.972 PPB~~		7	ACETONE
8	NOT FOUND									8	ACROLEIN
9	NOT FOUND									9	ACRYLONITRILE
10	NOT FOUND									10	CARBON DISULFIDE
11	NOT FOUND									11	TRICHLOROFLUOROMETHANE
12	96	150	7:30	1	0.955	A BB	31807.	90.869 PPB		12	1,1-DICHLOROETHENE
14	63	174	8:42	1	1.108	A BB	762351.	850.356 PPB		14	1,1-DICHLOROETHANE
15	NOT FOUND									15	TETRAHYDROFURAN
16	NOT FOUND									16	1,2-DICHLOROETHENE (TOTAL)
~~17~~	~~83~~	~~173~~	~~8:39~~	~~1~~	~~1.102~~	~~A BB~~	~~103265.~~	~~93.596 PPB~~		17	CHLOROFORM
~~18~~	~~62~~	~~219~~	~~10:57~~	~~1~~	~~1.395~~	~~A BB~~	~~823.~~	~~0.946 PPB~~		18	1,2-DICHLOROETHANE
20	NOT FOUND									20	2-BUTANONE
21	NOT FOUND									21	FREON TF
22	97	240	12:00	13	0.649	A BB	6100760.	7228.640 PPB		22	1,1,1-TRICHLOROETHANE JS
~~23~~	~~117~~	~~238~~	~~11:54~~	~~13~~	~~0.643~~	~~A BB~~	~~1298660.~~	~~1446.080 PPB~~		23	CARBON TETRACHLORIDE
24	NOT FOUND									24	VINYL ACETATE
25	NOT FOUND									25	BROMODICHLOROMETHANE
26	63	~~297~~	~~14:51~~	~~13~~	~~0.803~~	~~A BB~~	~~80.~~	~~0.129 PPB~~		26	1,2-DICHLOROPROPANE
27	75	~~321~~	~~16:03~~	~~13~~	~~0.868~~	~~A BB~~	~~191.~~	~~0.271 PPB~~		27	CIS-1,3-DICHLOROPROPENE
28	NOT FOUND									28	TRICHLOROETHENE
29	NOT FOUND									29	DIBROMOCHLOROMETHANE
30	NOT FOUND									30	METHYLCYCLOHEXANE
~~31~~	~~97~~	~~321~~	~~16:03~~	~~13~~	~~0.868~~	~~A BB~~	~~2255.~~	~~3.793 PPB~~		31	1,1,2-TRICHLOROETHANE
32	NOT FOUND									32	BENZENE
33	NOT FOUND									33	TRANS-1,3-DICHLOROPROPENE
34	NOT FOUND									34	2-CHLOROETHYLVINYLETHER
35	NOT FOUND									35	BROMOFORM
37	NOT FOUND									37	4-METHYL-2-PENTANONE
~~38~~	~~43~~	~~420~~	~~21:00~~	~~36~~	~~0.901~~	~~A BB~~	~~920.~~	~~1.124 PPB~~		38	2-HEXANONE
39	NOT FOUND									39	1,1,2,2-TETRACHLOROETHANE
40	NOT FOUND									40	TETRACHLOROETHENE
41	NOT FOUND									41	BUTYL ACETATE
43	92	447	22:21	36	0.959	A BB	98669.	100.418 PPB		43	TOLUENE
44	NOT FOUND									44	CHLOROBENZENE
45	NOT FOUND									45	ETHYLBENZENE
47	NOT FOUND									47	STYRENE
~~48~~	~~106~~	~~574~~	~~28:42~~	~~36~~	~~1.232~~	~~A BB~~	~~1148.~~	~~1.348 PPB~~		48	M-XYLENE
~~49~~	~~106~~	~~588~~	~~29:24~~	~~36~~	~~1.262~~	~~A BB~~	~~1267.~~	~~1.678 PPB~~		49	O- & P-XYLENE
~~50~~	~~146~~	~~663~~	~~33:09~~	~~36~~	~~1.423~~	~~A BB~~	~~2048380.~~	~~1907.040 PPB~~		50	O-DICHLOROBENZENE See TIC Summary
51	NOT FOUND									51	CYCLOPENTANE
~~52~~	~~106~~	~~574~~	~~28:42~~	~~36~~	~~1.232~~	~~A*BB~~	~~2415.~~	~~2.836 PPB~~		52	XYLENE (TOTAL)
53	NOT FOUND									53	2-PROPANOL

Sample: L#114880 CLI#SEPTIC_SLUDGE ETR#21436 4.17G/10ML->25UL/5ML
05/24/90 2243
Conditions: GC/MS OWAC
OWAC -- CMS
Method: 8240-4 Matrix: MED SOIL Lab ID: 114880 Client ID: SEPTIC_SLUDGE ETR Number: 21436 Submitted by: ADIENV
Weight: 4.170 g

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	1:03		0.131							2	CHLOROMETHANE
3	1:36		0.200							3	BROMOMETHANE
4	2:03		0.256							4	VINYL CHLORIDE
5	2:45		0.344							5	CHLOROETHANE
6	4:36	6	0.575	1.00	3.04	50.00	0.113	1.860	0.06	6	METHYLENE CHLORIDE
7	5:36	3	0.700	1.01	7.97	50.00	0.055	0.346	0.16	7	ACETONE
8	5:42		0.713							8	ACROLEIN
9	6:21		0.794							9	ACRYLONITRILE
10	6:24		0.800							10	CARBON DISULFIDE
11	6:48		0.850							11	TRICHLOROFLUOROMETHANE
12	7:36	6	0.950	1.01	90.87	50.00	1.606	0.884	1.82	12	1,1-DICHLOROETHENE
14	8:48	6	1.100	1.01	850.36	50.00	38.504	2.264	17.01	14	1,1-DICHLOROETHANE
15	9:00		1.125							15	TETRAHYDROFURAN
16	9:42		1.212							16	1,2-DICHLOROETHENE (TOTAL)
17	10:06	87*	1.262	0.87	93.60	50.00	5.216	2.786	1.87	17	CHLOROFORM
18	10:57	0	1.369	1.02	0.95	50.00	0.042	2.197	0.02	18	1,2-DICHLOROETHANE
20	11:12		1.400							20	2-BUTANONE
21	10:27		0.563							21	FREON TF
22	12:06	6	0.652	0.99	7228.65	50.00	68.438	0.473	144.57	22	1,1,1-TRICHLOROETHANE
23	12:27	33*	0.671	0.96	1446.09	50.00	14.568	0.504	28.92	23	CARBON TETRACHLORIDE
24	13:03		0.704							24	VINYL ACETATE
25	13:06		0.706							25	BROMODICHLOROMETHANE
26	14:30	21	0.782	1.03	0.13	50.00	0.001	0.347	0.00	26	1,2-DICHLOROPROPANE
27	14:51	72*	0.801	1.08	0.27	50.00	0.002	0.396	0.01	27	CIS-1,3-DICHLOROPROPENE
28	15:27		0.833							28	TRICHLOROETHENE
29	15:51		0.854							29	DIBROMOCHLOROMETHANE
30	18:15		0.984							30	METHYLCYCLOHEXANE
31	16:00	-3	0.863	1.01	3.79	50.00	0.025	0.334	0.08	31	1,1,2-TRICHLOROETHANE
32	16:00		0.863							32	BENZENE
33	16:06		0.868							33	TRANS-1,3-DICHLOROPROPENE
34	17:15		0.930							34	2-CHLOROETHYLVINYLETHER
35	18:27		0.995							35	BROMOFORM
37	19:12		0.822							37	4-METHYL-2-PENTANONE
38	20:48	-12	0.891	1.01	1.12	50.00	0.012	0.536	0.02	38	2-HEXANONE
39	20:45		0.889							39	1,1,2,2-TETRACHLOROETHANE
40	21:00		0.899							40	TETRACHLOROETHENE
41	21:54		0.938							41	BUTYL ACETATE
43	22:27	6	0.961	1.00	100.42	50.00	1.292	0.643	2.01	43	TOLUENE
44	23:30		1.006							44	CHLOROBENZENE
45	25:18		1.084							45	ETHYLBENZENE
47	28:30		1.221							47	STYRENE
48	28:48	6	1.233	1.00	1.35	50.00	0.015	0.557	0.03	48	M-XYLENE
49	29:30	6	1.263	1.00	1.68	30.00	0.028	0.494	0.06	49	O- & P-XYLENE
50	32:45	-24	1.403	1.01	1987.05	50.00	37.286	0.938	39.74	50	O-DICHLOROBENZENE
51	8:03		1.006							51	CYCLOPENTANE
52	28:48	6	1.233	1.00	2.84	50.00	0.032	0.557	0.06	52	XYLENE (TOTAL)
53	7:03		0.881							53	2-PROPANOL

C114880EV$_{31}$

Sample: L#114880 CLI#SEPTIC_SLUDGE ETR#21436 4.17G/10ML->25UL/5ML
05/24/90 2243
Conditions: GC/MS OWAC
OWAC -- CMS
Method: 8240-4 Matrix: MED SOIL Lab ID: 114880 Client ID: SEPTIC_SLUDGE ETR Number: 21436 Submitted by: ADIENV
Weight: 4.170 g

$QF = \frac{10.0}{4.2} \times \frac{5.0}{0.025} = 47.19048$

as received basis

cp

Summary of Tentatively Identified Compounds

Rank	Scan	Dec. Time	En.RIC Height	Est. Amount	Ref	Name
~~5~~	~~4~~	~~0.20~~	~~3183.~~	~~5.3~~	~~1~~	~~UNKNOWN~~ CO_2 related
ISTD	157	7.85	30295.	50.0	1	BROMOCHLOROMETHANE
~~1~~	~~237~~	~~11.85~~	~~4481020.~~	~~7395.6~~	~~1~~	~~UNKNOWN~~ TCL#22
~~2~~	~~241~~	~~12.05~~	~~2871290.~~	~~4738.9~~	~~1~~	~~UNKNOWN~~ TCL#22
ISTD	370	18.50	40512.	50.0	13	1,4-DIFLUOROBENZENE
ISTD	466	23.30	54885.	50.0	36	CHLOROBENZENE-D5
3	568	28.40	16607.	15.1	36	~~UNKNOWN~~ propylcyclohexane 7200 J
4	597	29.85	15167.	13.8	36	~~UNKNOWN~~ Cyclic hydrocarbon 6600 J
	663	33.15	1183740	1078.4	36	unknown dichlorobenzene 510,000 J

3 TIC's for reporting

cp

PROCEDURE: TCA DIAGNOSTIC REPORT 5/25/90 9:34:10
DATA FILE: C114880EV
REFERENCE: JTAR11
NAME LIST: UM INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: UMRET1

STANDARDS PROC	STANDARDS USED	STANDARDS POSS	STANDARDS RMS	PLUS UNKNOWNS PROC	PLUS UNKNOWNS USED	PLUS UNKNOWNS POSS	PLUS UNKNOWNS RMS	LIST NAMES STANDARD/UNKNOWN
1	1	1	0	13	3	1	15	UMRET1/UMUNK1
2	2	1	0	14	8	4	1014	UMRET2/UMUNK2
2	2	1	0	13	4	1	1487	UMRET2/UMUNK3
2	2	1	0	9	5	1	253	UMRET3/UMUNK4
1	1	1	0	8	6	4	436	UMRET4/UMUNK5

52 COMPOUNDS PROCESSED, 21 FOUND

COMPOUND NO	COMPOUND LIB	COMPOUND ENTRY	SEARCH REF	SEARCH PRED	SEARCH SEL	SEARCH DELTA	SEARCH PEAKS	SAT FIT	SAT PEAKS	CHRO M/Z	CHRO TOP	CHRO DELTA	CHRO PEAKS
1	UM	1	-158	157	157	.	1	978	.	128	157	.	1
2	UM	2	-18	21	.	.	.	.	.	50	.	.	.
3	UM	3	-30	33	.	.	.	.	.	94	.	.	.
4	UM	4	-40	42	.	.	.	.	.	62	.	.	.
5	UM	5	-55	57	.	.	.	.	.	64	.	.	.
6	UM	6	-89	90	90	.	1	997	.	84	90	.	1
7	UM	7	-113	113	.	.	.	.	.	43	111	.	1
8	UM	8	-112	112	.	.	.	.	.	56	.	.	.
9	UM	9	-125	125	.	.	.	.	.	53	.	.	.
10	UM	10	-122	122	.	.	.	.	.	76	.	.	.
11	UM	11	-134	134	.	.	.	.	.	101	.	.	.
12	UM	12	-151	150	150	.	1	997	.	96	150	.	1
13	UM	53	-144	143	.	.	.	.	.	45	.	.	.
14	UM	13	-371	370	370	.	1	995	.	114	370	.	1
15	UM	51	-160	152	.	.	.	.	.	55	.	.	.
16	UM	14	-176	169	174	5	2	1000	.	63	174	.	1
17	UM	15	-180	173	.	.	.	.	.	71	.	.	.
18	UM	16	-193	186	.	.	.	.	.	96	.	.	.
19	UM	17	-202	195	174	-21	1	943	.	83	173	-1	1
20	UM	18	-219	212	217	5	1	959	.	62	219	2	1
21	UM	19	-217	210	216	6	1	998	.	65	216	.	1
22	UM	20	-224	217	.	.	.	.	.	72	.	.	.
23	UM	21	-210	203	.	.	.	.	.	101	.	.	.
24	UM	22	-242	236	237	1	2	993	-3	97	.	.	.
25	UM	23	-250	244	238	-6	1	968	.	117	238	.	1
26	UM	24	-262	256	.	.	.	.	.	43	.	.	.
27	UM	25	-262	267	.	.	.	.	.	83	.	.	.
28	UM	26	-291	297	.	.	.	.	.	63	297	.	1
29	UM	27	-297	303	321	18	1	1000	.	75	321	.	1
30	UM	28	-309	315	.	.	.	.	.	130	.	.	.
31	UM	29	-316	322	.	.	.	.	.	129	.	.	.
32	UM	30	-365	372	.	.	.	.	.	98	.	.	.
33	UM	31	-320	326	321	-5	1	952	.	97	321	.	1
34	UM	32	-320	326	.	.	.	.	.	78	.	.	.
35	UM	33	-322	328	.	.	.	.	.	75	.	.	.
36	UM	34	-345	352	.	.	.	.	.	63	.	.	.
37	UM	35	-369	376	.	.	.	.	.	173	.	.	.
38	UM	36	-467	466	466	.	1	991	.	117	466	.	1
39	UM	37	-384	385	.	.	.	.	.	43	.	.	.
40	UM	38	-416	416	420	4	1	927	.	43	420	.	1
41	UM	39	-415	415	.	.	.	.	.	83	.	.	.
42	UM	40	-421	421	.	.	.	.	.	164	.	.	.
43	UM	41	-438	438	.	.	.	.	.	56	.	.	.

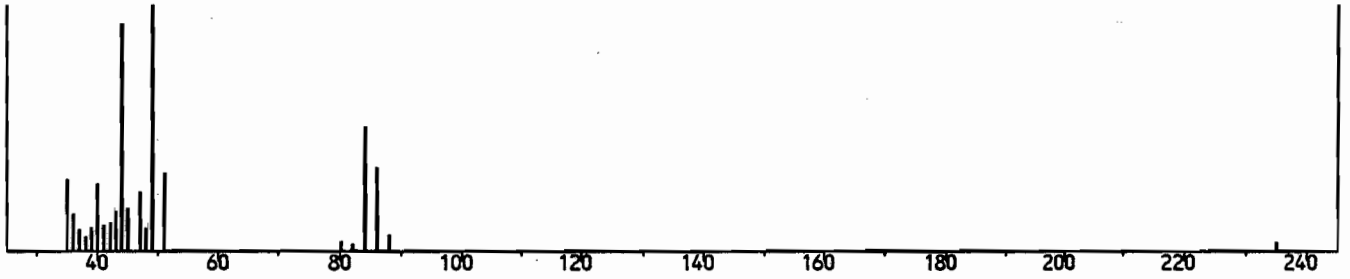
47	UM	45	-538	537	.	.	.	.	.	103	.	.	.
48	UM	46	-545	546	544	-2	1	994	.	95	544	.	1
49	UM	47	-569	571	569	-2	2	406	.	104	.	.	.
50	UM	48	-575	577	575	-2	1	994	.	106	574	-1	1
51	UM	49	-589	591	588	-3	2	994	.	106	588	.	1
52	UM	50	-653	656	663	7	1	992	.	146	663	.	1

Sample: L#114880 CLI#SEPTIC_SLUDGE ETR#21436 4.17G/10ML->25UL/5ML
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: MED SOIL Lab ID: 114880 Client ID: SEPTIC_SLUDGE ETR Number: 21436 Submitted by: ADIENV
Weight: 4.170 g

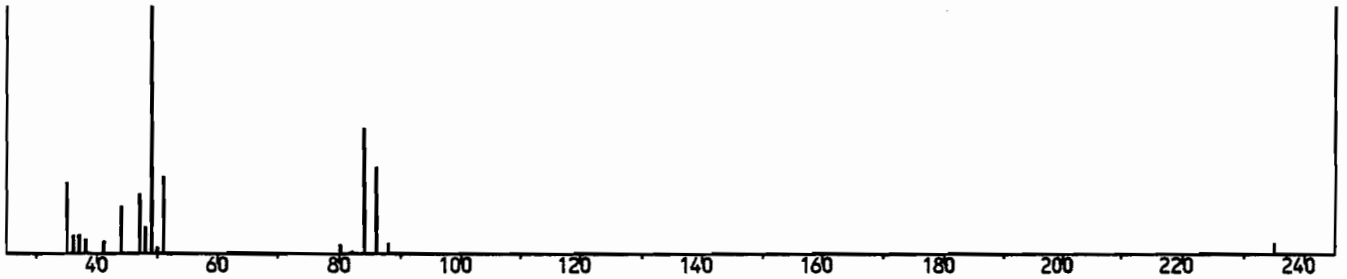
05/24/90 2243
OWAC -- CMS

LIBRARYUM#6 METHYLENE CHLORIDE

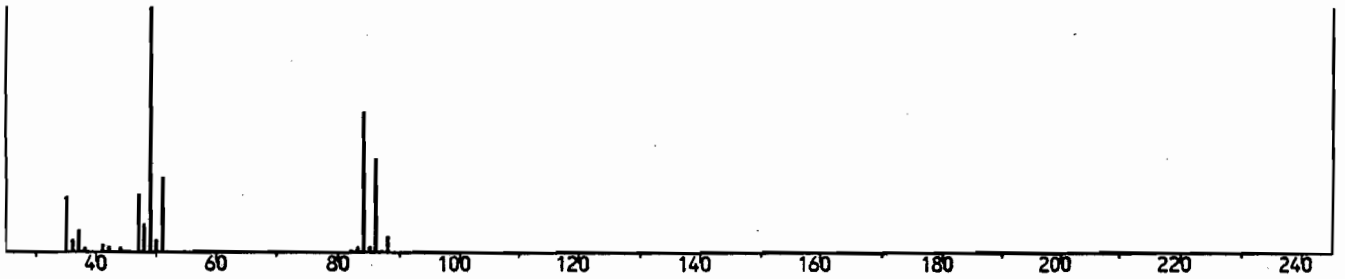
Unenhanced spectrum -- Scan # 90 Base m/z: 49 --- RIC: 6064. Max intensity: 1188



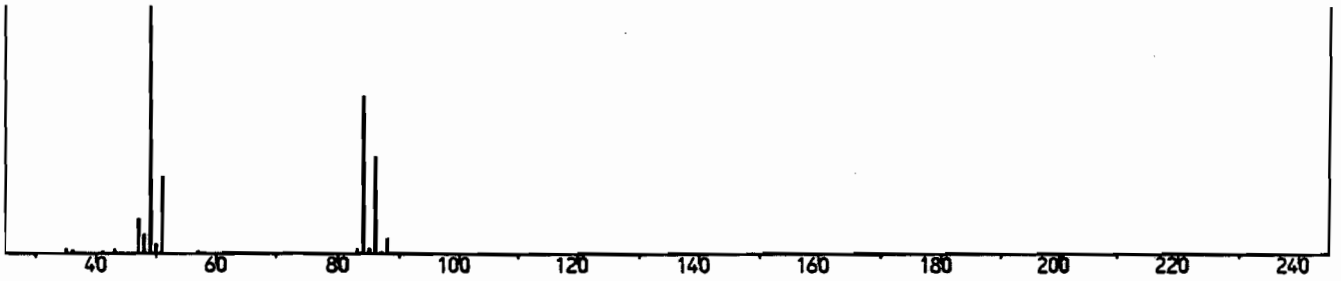
Enhanced (S 15B 2N 0T) -- Scan # 90 Base m/z: 49 --- RIC: 3944. Max intensity: 1154



Enhanced CKV050BHV -- Scan # 92 Base m/z: 49 --- RIC: 58944. Max intensity: 17856



LIBRARYUM#6 CAS: 75-09-2 METHANE, DICHLORO- (CH2Cl2)

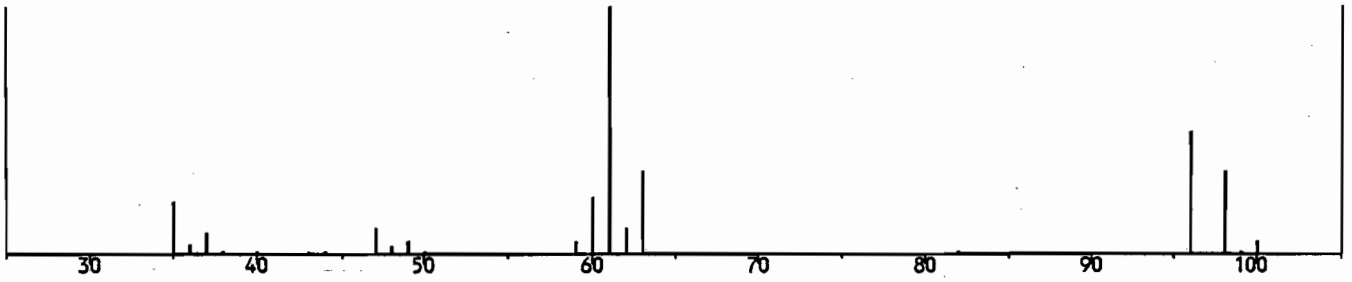


Sample: L#114880 CLI#SEPTIC_SLUDGE ETR#21436 4.17G/10ML->25UL/5ML
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: MED SOIL Lab ID: 114880 Client ID: SEPTIC_SLUDGE ETR Number: 21436 Submitted by: ADIENV
Weight: 4.170 g

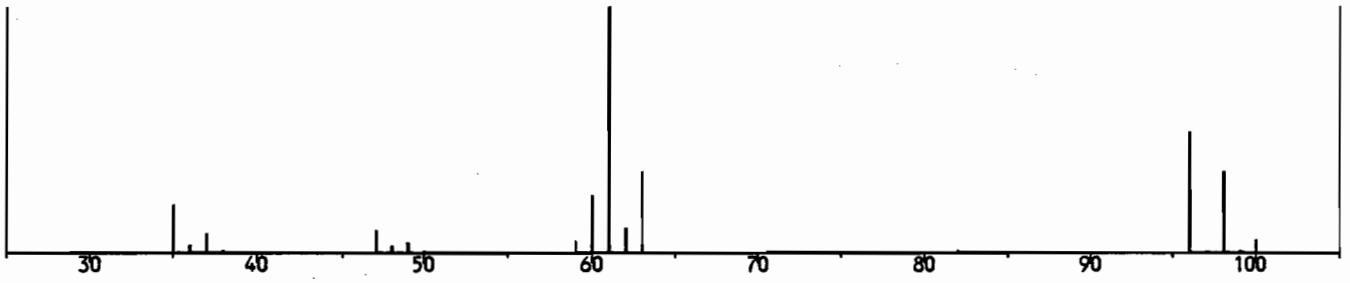
05/24/90 2243
OWAC -- CMS

LIBRARYUM#12 1,1-DICHLOROETHENE

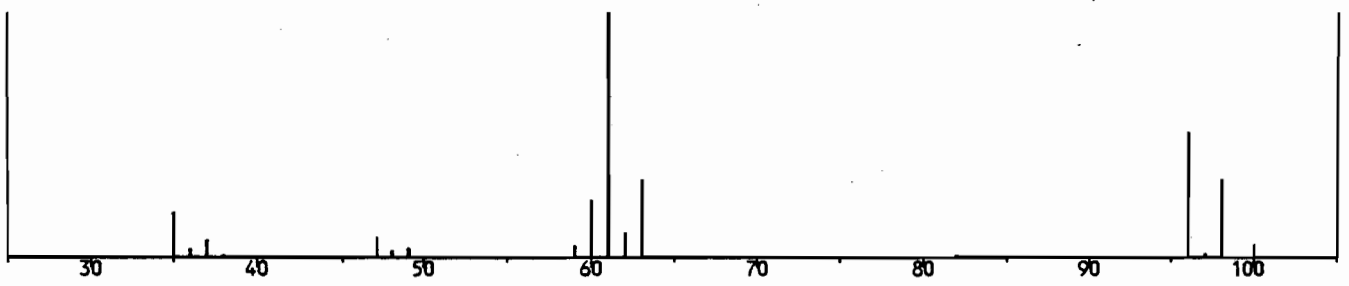
Unenhanced spectrum -- Scan # 150 Base m/z: 61 --- RIC: 49600. Max intensity: 15504



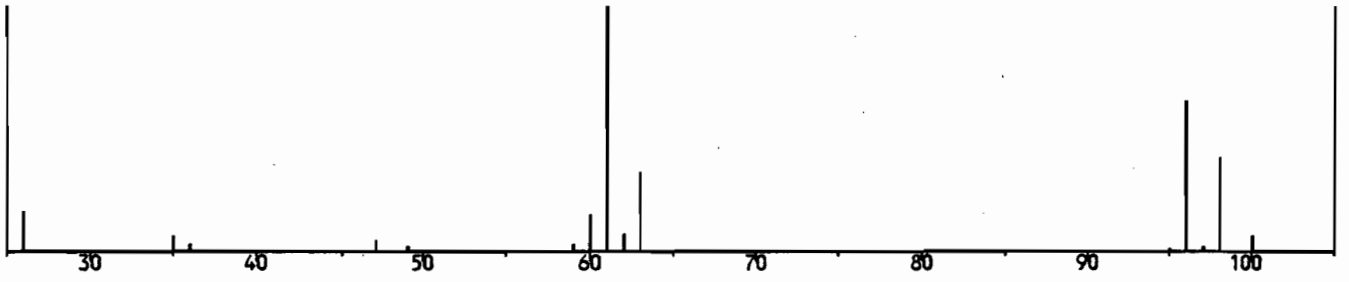
Enhanced (S 15B 2N 0T) -- Scan # 150 Base m/z: 61 --- RIC: 45952. Max intensity: 14896



Enhanced CKV050BHV -- Scan # 152 Base m/z: 61 --- RIC: 25824. Max intensity: 8336



LIBRARYUM#12 CAS: 75-35-4 ETHENE, 1,1-DICHLORO- (C2H2Cl2)

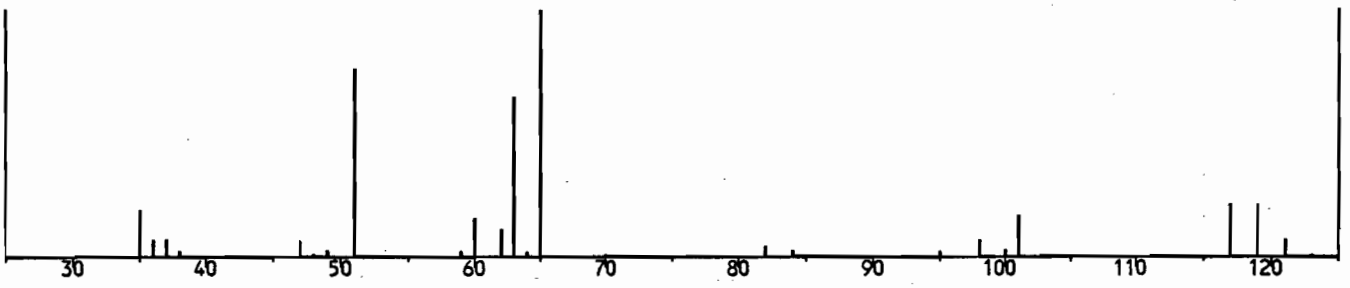


Sample: L#114880 CLI#SEPTIC_SLUDGE ETR#21436 4.17G/10ML->25UL/5ML
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: MED SOIL Lab ID: 114880 Client ID: SEPTIC_SLUDGE ETR Number: 21436 Submitted by: ADIENV
Weight: 4.170 g

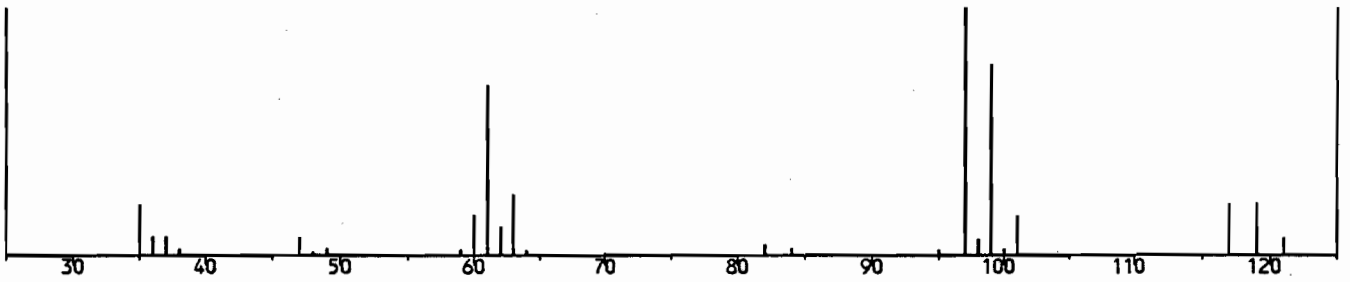
05/24/90 2243
OWAC -- CMS

LIBRARYUM#22 1,1,1-TRICHLOROETHANE

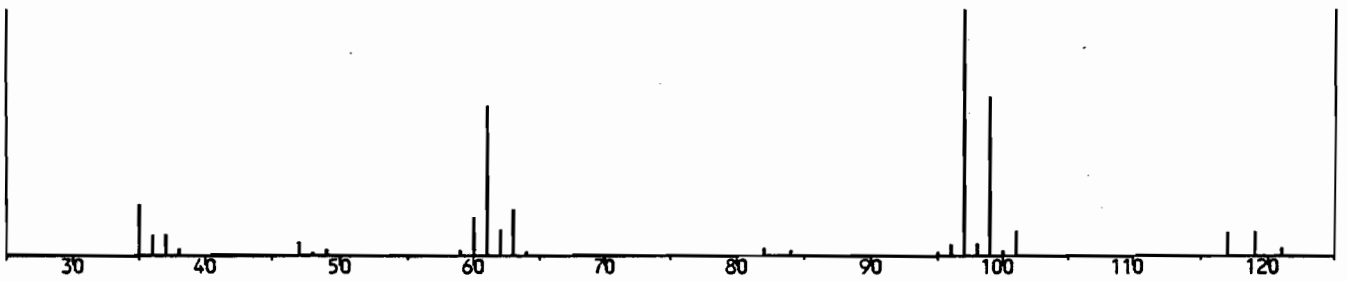
Unenhanced spectrum -- Scan # 240 Base m/z: 97 --- RIC: 4218870. Max intensity: 974848



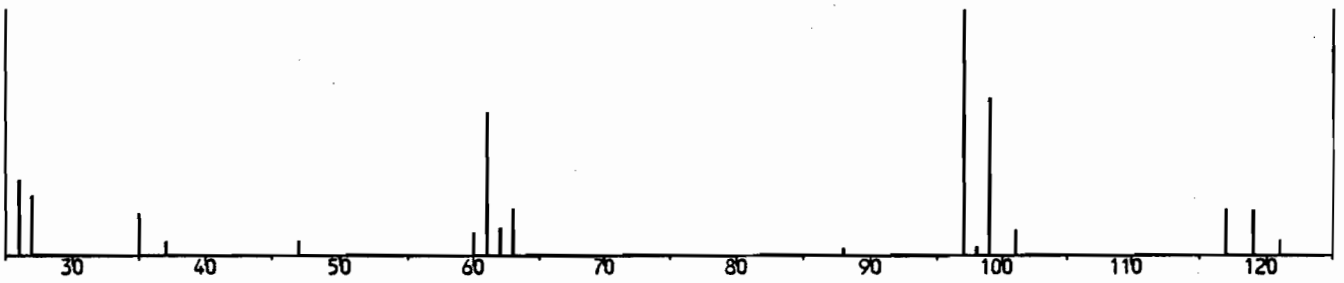
Enhanced (S 15B 2N 0T) -- Scan # 240 Base m/z: 97 --- RIC: 4276220. Max intensity: 964608



Enhanced CKV050BHV -- Scan # 242 Base m/z: 97 --- RIC: 44416. Max intensity: 11584



LIBRARYUM#22 CAS: 71-55-6 ETHANE, 1,1,1-TRICHLORO- ($C_2H_3Cl_3$)

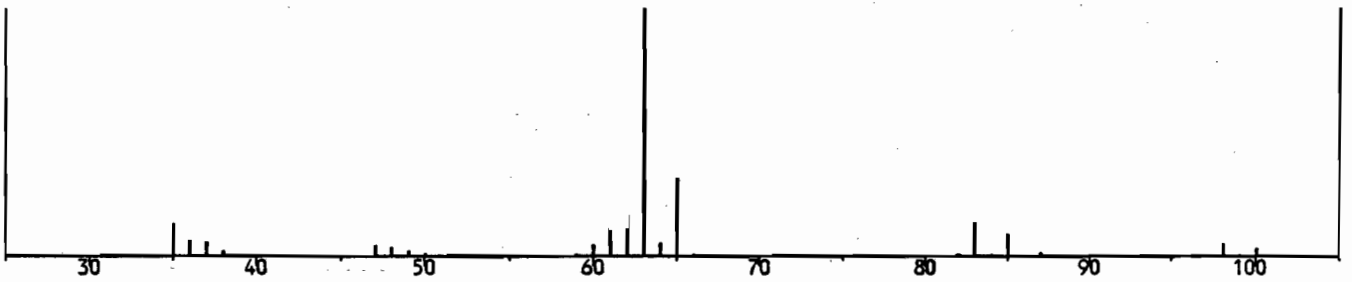


Sample: L#114880 CLI#SEPTIC_SLUDGE ETR#21436 4.17G/10ML->25UL/5ML
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: MED SOIL Lab ID: 114880 Client ID: SEPTIC_SLUDGE ETR Number: 21436 Submitted by: ADIENV
Weight: 4.170 g

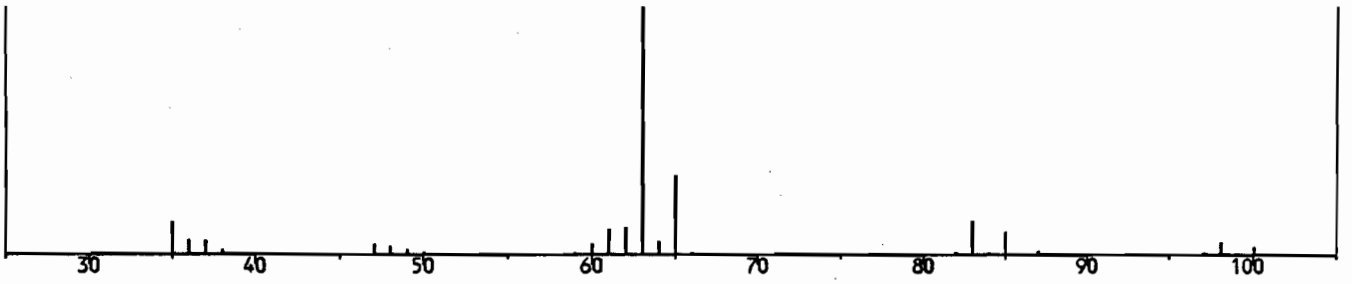
05/24/90 2243
OWAC -- CMS

LIBRARYUM#14 1,1-DICHLOROETHANE

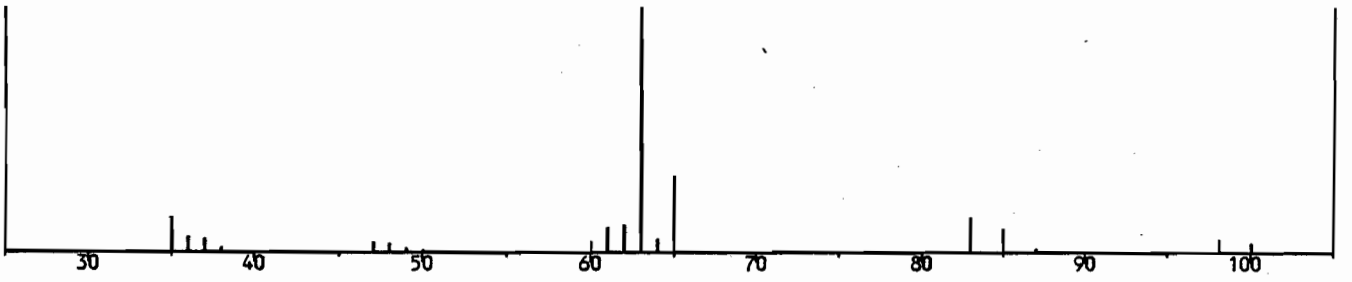
Unenhanced spectrum -- Scan # 174 Base m/z: 63 --- RIC: 468992. Max intensity: 196608



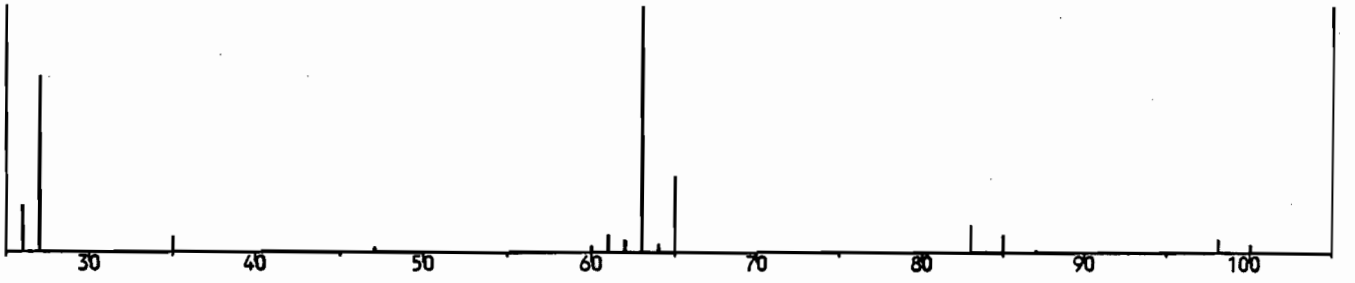
Enhanced (S 15B 2N 0T) -- Scan # 174 Base m/z: 63 --- RIC: 450560. Max intensity: 188672



Enhanced CKV050BHV -- Scan # 176 Base m/z: 63 --- RIC: 27392. Max intensity: 11488



LIBRARYUM#14 CAS: 75-34-3 ETHANE, 1,1-DICHLORO- (C2H4Cl2)

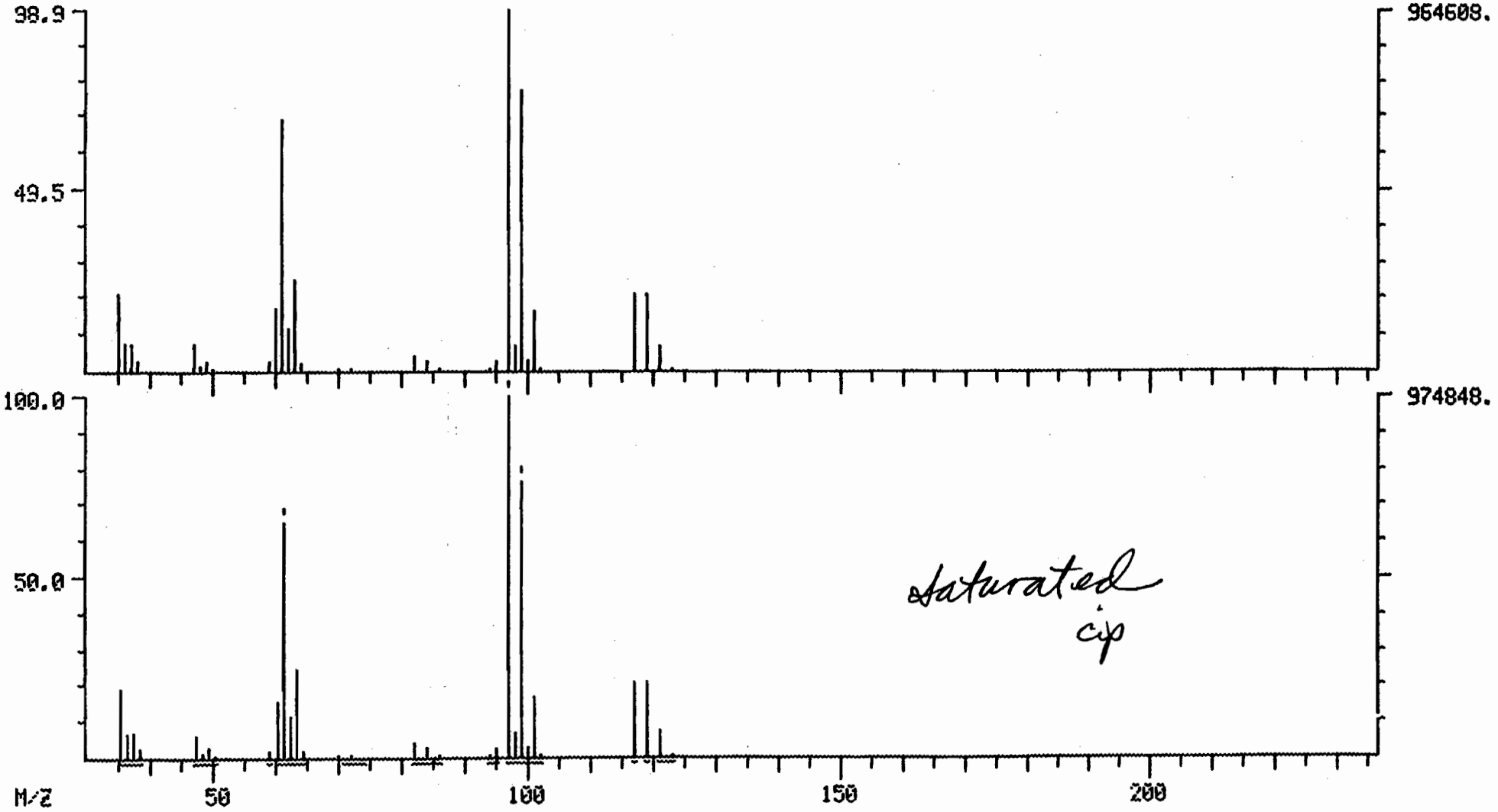


000163

DUAL MASS SPECTRUM
05/24/90 22:43:00 + 12:00
SAMPLE: L#114880 CLI#SEPTIC_SLUDGE ETR#21436 4.17G/10ML->25UL/5ML
CONDS.: GC/MS OWAC
ENHANCED (S 15B 2N 0T)

DATA: C114880EV #240
CALI: C114880EV #2

BASE M/Z: 97/ 97
RIC: 4276220./ 4218870.



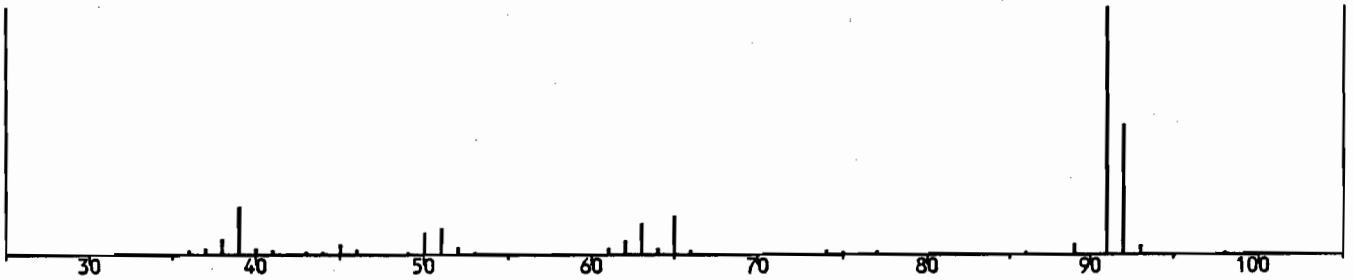
saturated
cp

Sample: L#114880 CLI#SEPTIC_SLUDGE ETR#21436 4.17G/10ML->25UL/5ML
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: MED SOIL Lab ID: 114880 Client ID: SEPTIC_SLUDGE ETR Number: 21436 Submitted by: ADIENV
Weight: 4.170 g

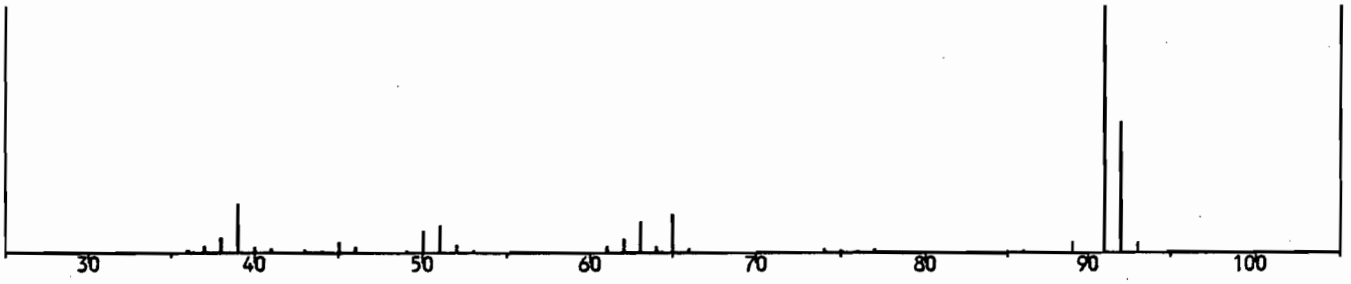
05/24/90 2243
OWAC -- CMS

LIBRARYUM#43 TOLUENE

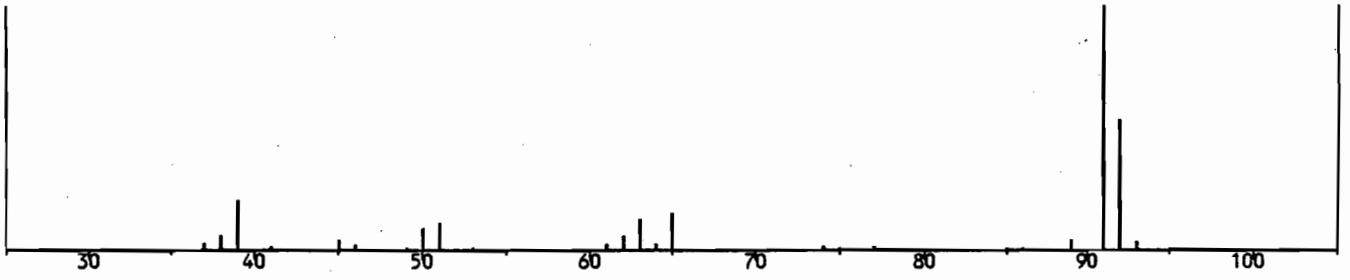
Unenhanced spectrum -- Scan # 447 Base m/z: 91 --- RIC: 135424. Max intensity: 48576



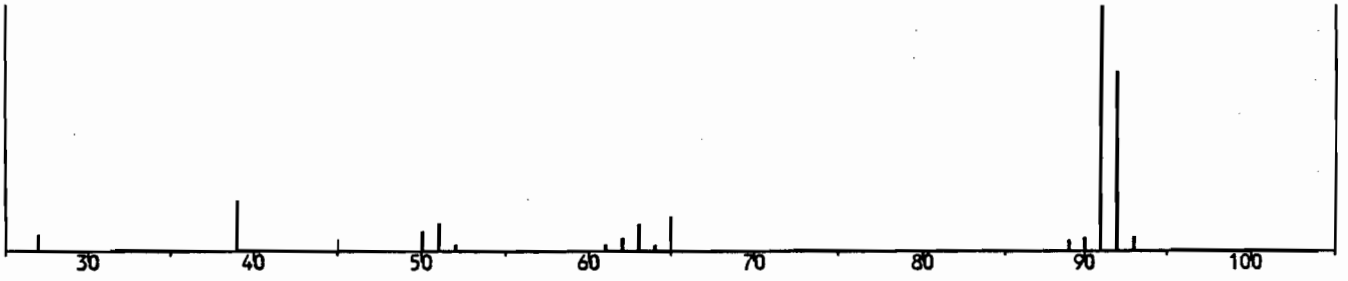
Enhanced (S 15B 2N 0T) -- Scan # 447 Base m/z: 91 --- RIC: 128512. Max intensity: 46400



Enhanced CKV050BHV -- Scan # 449 Base m/z: 91 --- RIC: 66432. Max intensity: 24640



LIBRARYUM#43 CAS: 108-88-3 BENZENE, METHYL- (C7H8)

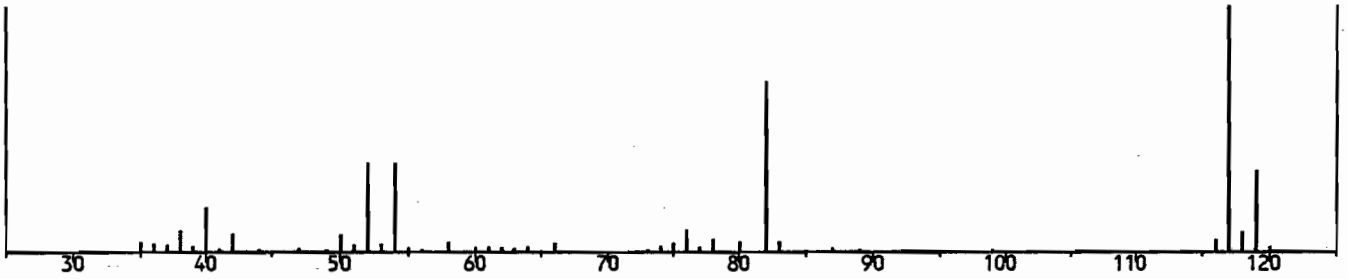


Sample: L#114880 CLI#SEPTIC_SLUDGE ETR#21436 4.17G/10ML->25UL/5ML
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: MED SOIL Lab ID: 114880 Client ID: SEPTIC_SLUDGE ETR Number: 21436 Submitted by: ADIENV
Weight: 4.170 g

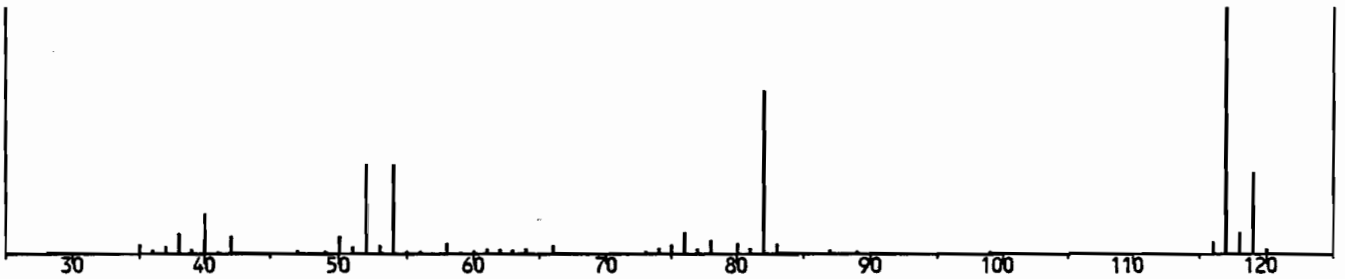
05/24/90 2243
OWAC -- CMS

LIBRARYUM#36 CHLOROBENZENE-D5

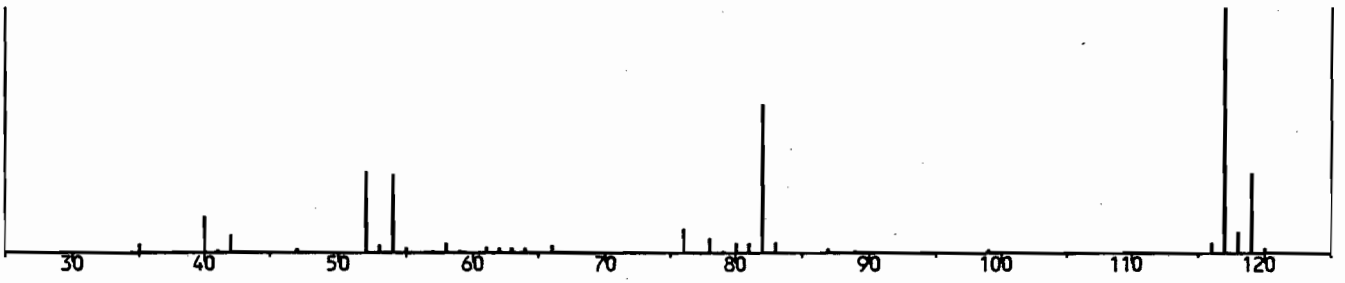
Unenhanced spectrum -- Scan # 466 Base m/z: 117 --- RIC: 73472. Max intensity: 17824



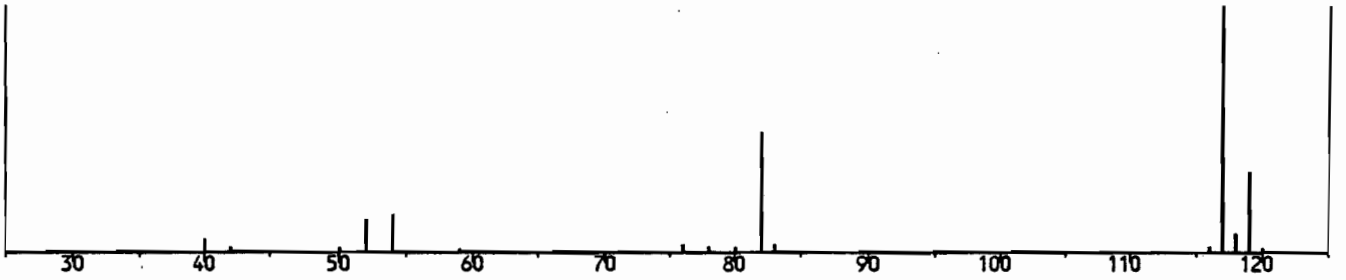
Enhanced (S 15B 2N 0T) -- Scan # 466 Base m/z: 117 --- RIC: 69376. Max intensity: 17248



Enhanced CKV050BHV -- Scan # 467 Base m/z: 117 --- RIC: 73088. Max intensity: 20288



LIBRARYUM#36 CAS: 79-00-5 (IS) CHLOROBENZENE-D5 (C6ClD5)

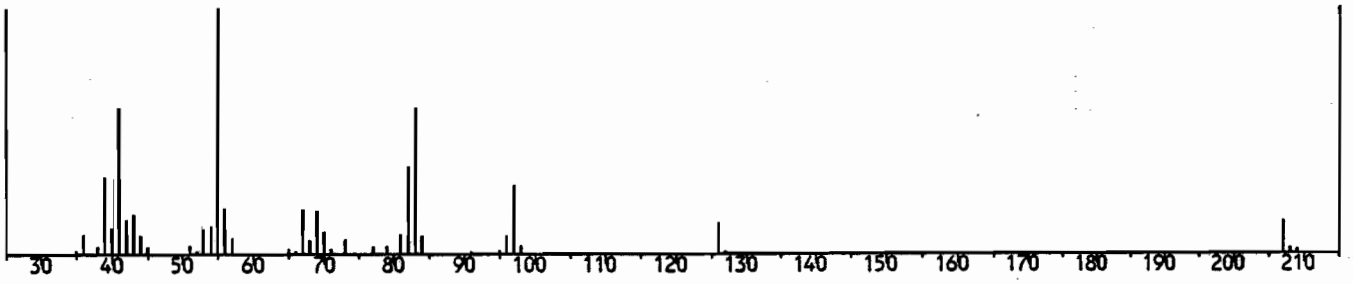


C114880EV$_{28}$

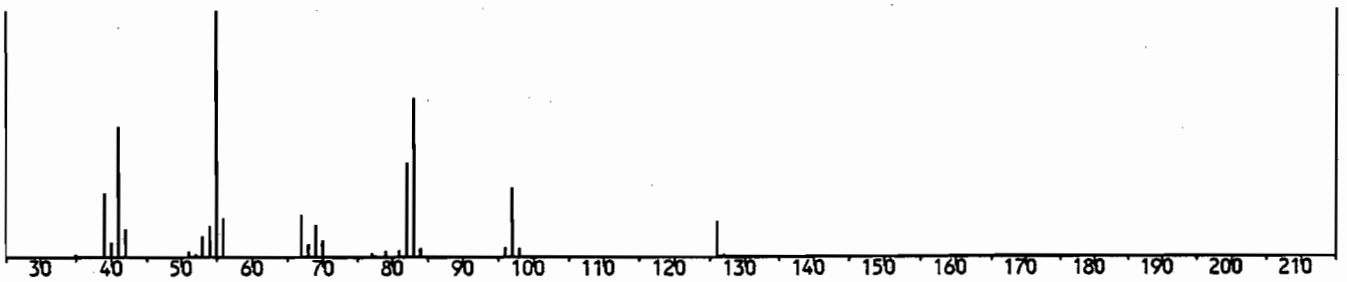
Sample: L#114880 CLI#SEPTIC_SLUDGE ETR#21436 4.17G/10ML->25UL/5ML
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: MED SOIL Lab ID: 114880 Client ID: SEPTIC_SLUDGE ETR Number: 21436 Submitted by: ADIENV
Weight: 4.170 g

05/24/90 2243
OWAC -- CMS

Unenhanced spectrum -- Scan # 568 Base m/z: 55 --- RIC: 24288. Max intensity: 4440

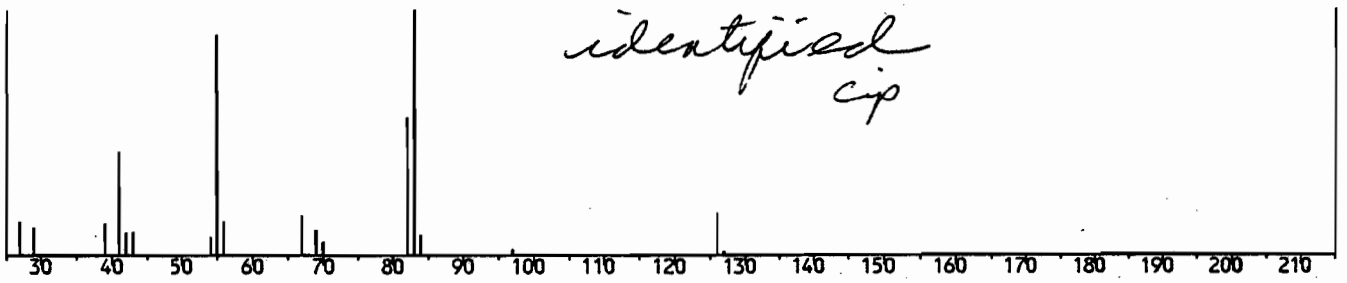


Enhanced (S 15B 2N 0T) -- Scan # 568 Base m/z: 55 --- RIC: 16607 Max intensity: 3780

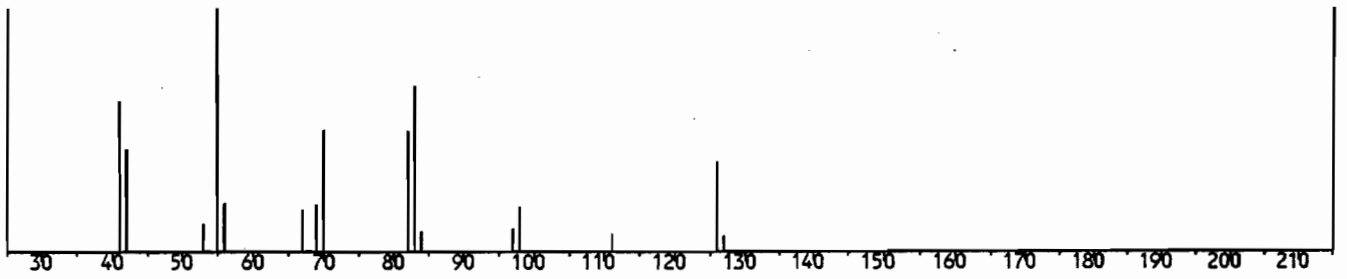


NB# 3746 CAS: 1678-92-8 CYCLOHEXANE, PROPYL- (C9H18) PURITY:832 FIT:907 RFIT:843

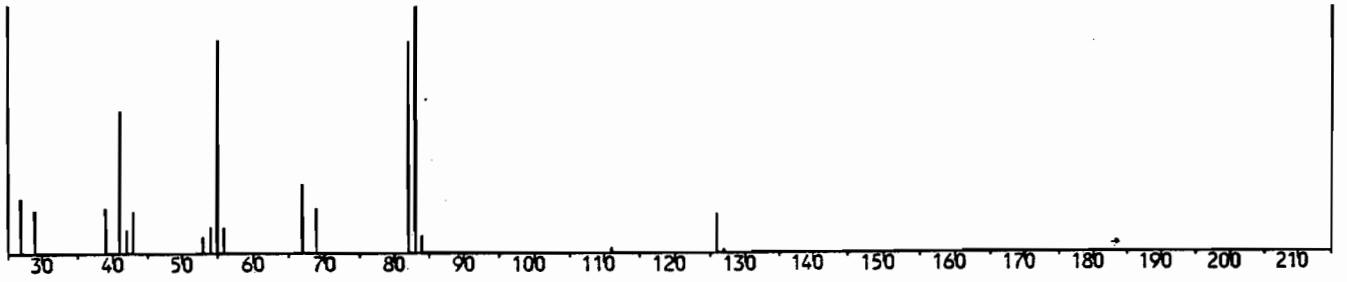
identified cp



NB# 3699 CAS:13395-76-1 CYCLOHEXANONE, 2,3-DIMETHYL- (C8H14O) PURITY:775 FIT:876 RFIT:792



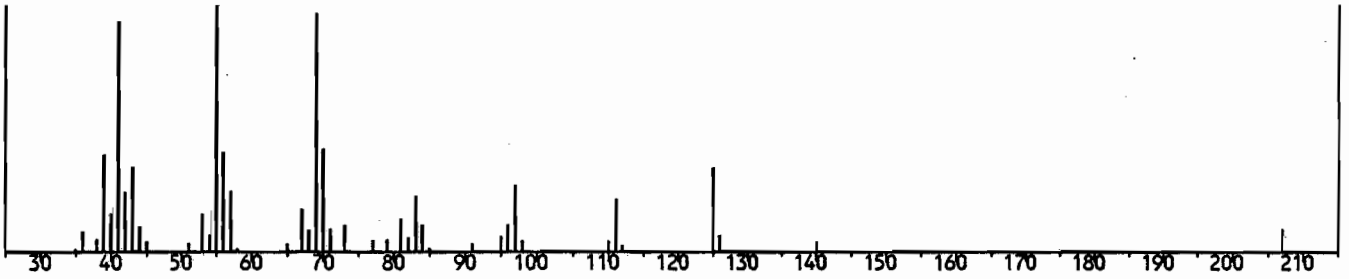
NB# 3744 CAS: 696-29-7 CYCLOHEXANE, (1-METHYLETHYL)- (C9H18) PURITY:771 FIT:937 RFIT:794



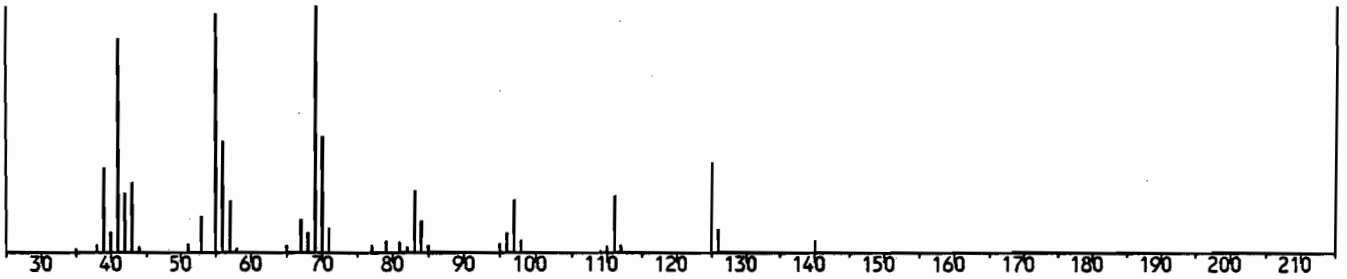
C114880EV$_{29}$

Sample: L#114880 CLI#SEPTIC_SLUDGE ETR#21436 4.17G/10ML->25UL/5ML
05/24/90 2243
Conditions: GC/MS OWAC
OWAC -- CMS
Method: 8240-4 Matrix: MED SOIL Lab ID: 114880 Client ID: SEPTIC_SLUDGE ETR Number: 21436 Submitted by: ADIENV
Weight: 4.170 g

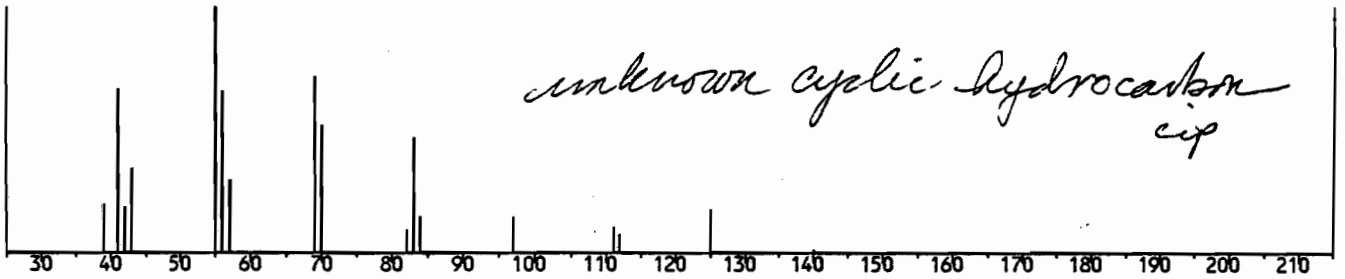
Unenhanced spectrum -- Scan # 597 Base m/z: 55 --- RIC: 24416. Max intensity: 3040



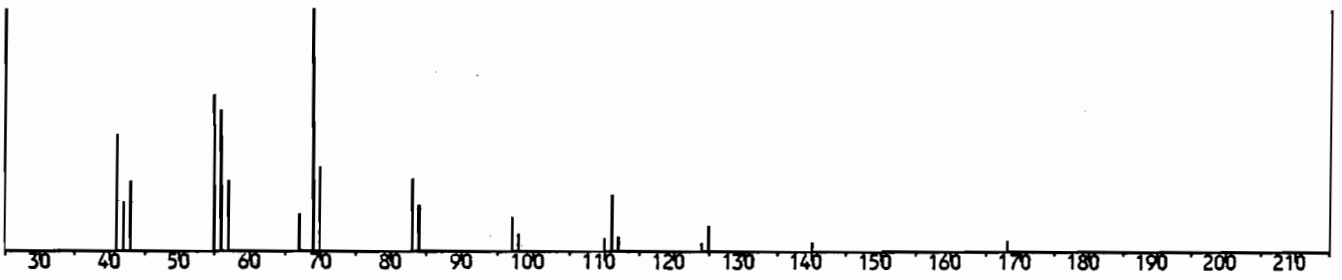
Enhanced (S 15B 2N 0T) -- Scan # 597 Base m/z: 69 --- RIC: 15167 Max intensity: 2160



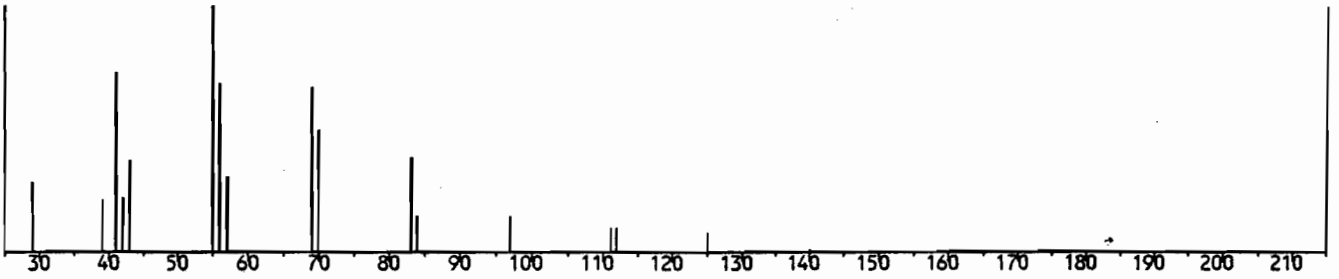
NB# 5690 CAS:13151-98-9 CYCLOOCTANE, 1,4-DIMETHYL-, TRANS- (C10H20) PURITY:789 FIT:935 RFIT:805



NB#11053 CAS:62199-50-2 CYCLOPENTANE, 1-BUTYL-2-PROPYL- (C12H24) PURITY:789 FIT:926 RFIT:815



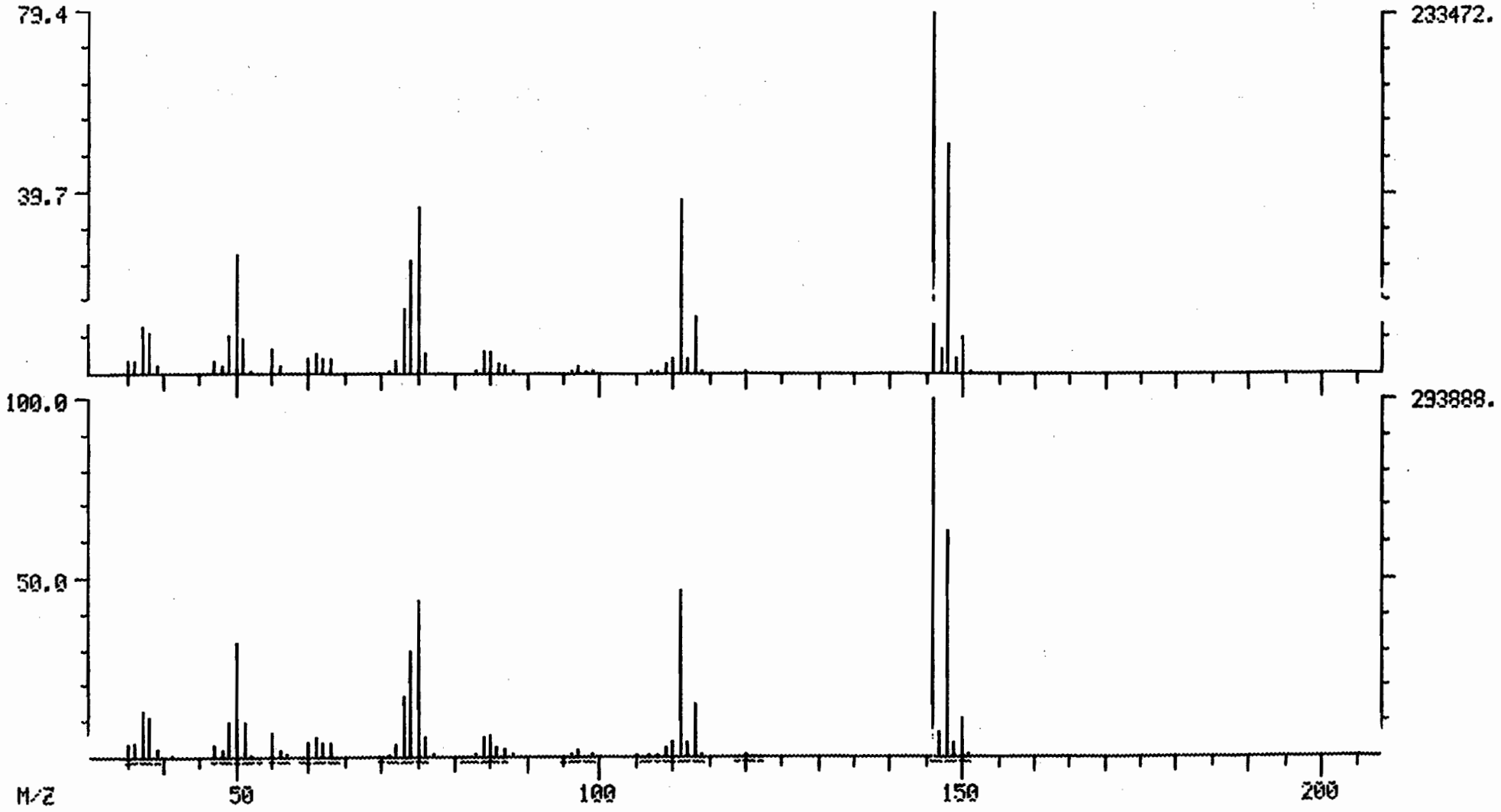
NB# 5691 CAS:13151-99-0 CYCLOOCTANE, 1,4-DIMETHYL-, CIS- (C10H20) PURITY:786 FIT:931 RFIT:786



DUAL MASS SPECTRUM
05/24/90 22:43:00 + 33:09
SAMPLE: L#114880 CLI#SEPTIC_SLUDGE ETR#21436 4.17G/10ML->25UL/5ML
CONDS.: GC/MS OWAC
ENHANCED (S 15B 2N 0T)

DATA: C114880EV #663
CALI: C114880EV #2

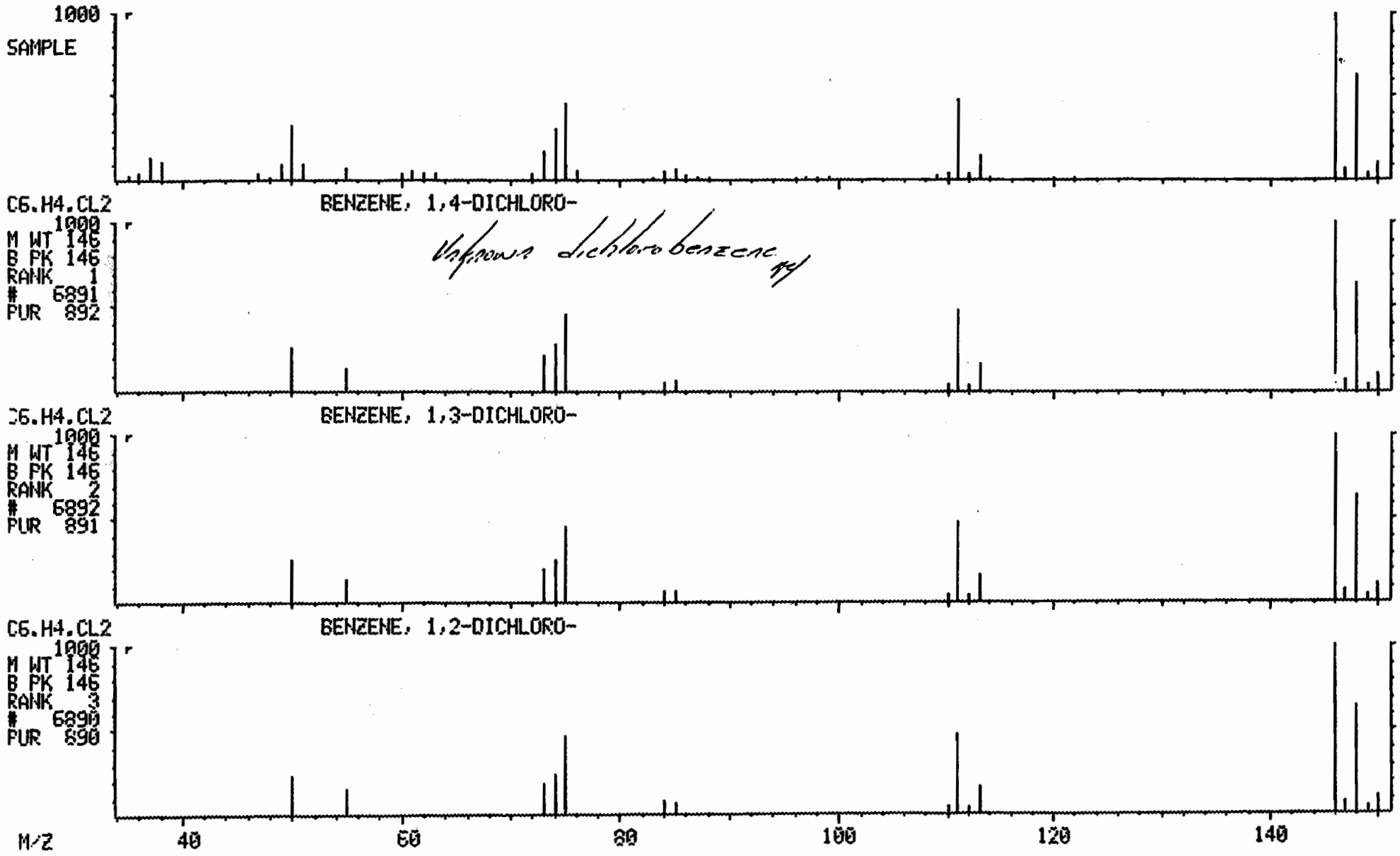
BASE M/Z: 146/ 146
RIC: 1183740./ 1478650.



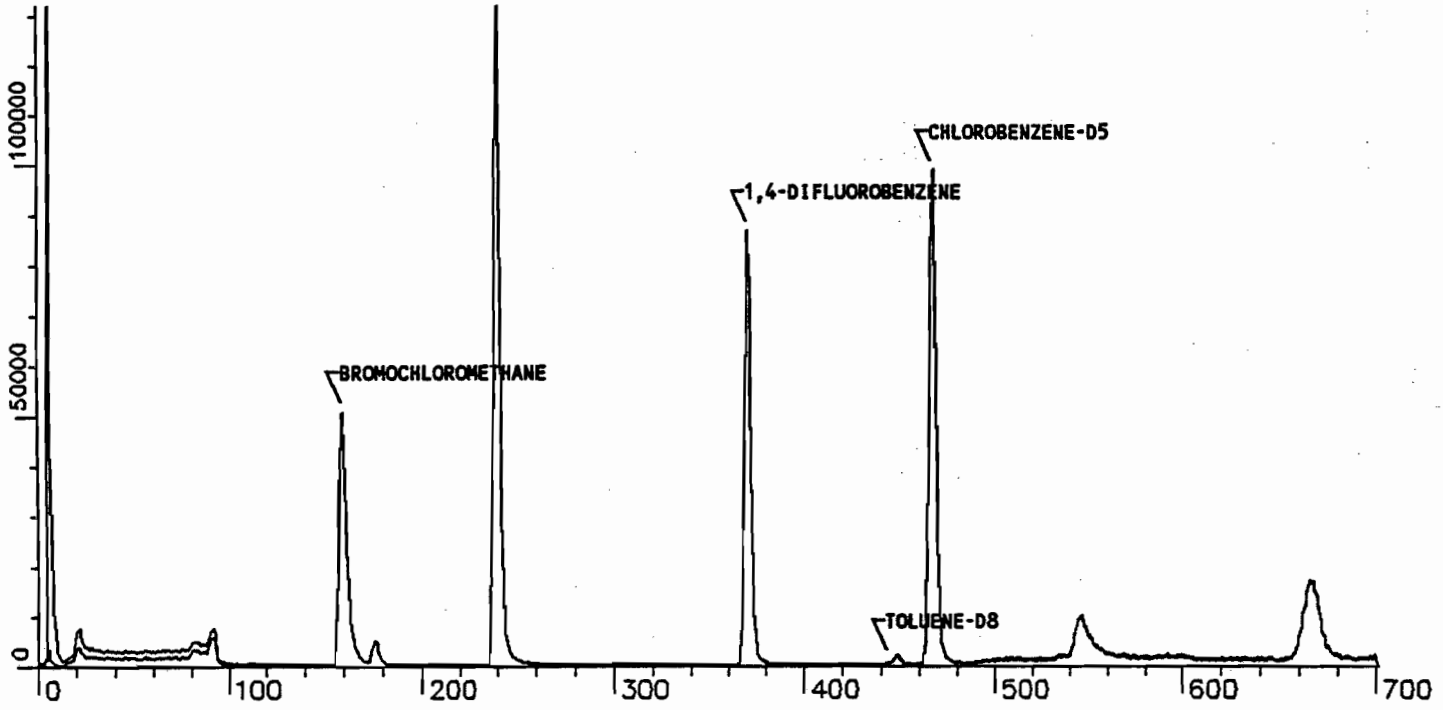
LIBRARY SEARCH
05/24/90 22:43:00 + 33:09
SAMPLE: L#114880 CLI#SEPTIC_SLUDGE ETR#21436 4.17G/10ML->25UL/5ML
CONDS.: GC/MS OWAC
ENHANCED (S 15B 2N 0T)

DATA: C114880EV # 663
CALI: C114880EV # 2

BASE M/Z: 146
RIC: 1161210.



Sample: L#114880D1 CLI#SEPTIC-SLUDGEDL ETR#21436 4.17G/10ML->0.35UL/5ML ✓ 05/30/90 1336
Conditions: GC/MS OWAC OWAC -- CMP
Method: 8240-4 Matrix: MED SOIL Lab ID: 114880D Client ID: SEPTIC-SLUDGEDL ETR Number: 21436
Submitted by: ADIENV
Weight: 4.170 g



No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
1	128	159	7:57	1	1.000	A BB	33700. ✓	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	370	18:30	13	1.000	A BB	146094. ✓	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	467	23:21	36	1.000	A BB	123505. ✓	50.000 PPB		36	CHLOROBENZENE-D5
19	NOT FOUND								0.0	19	1,2-DICHLOROETHANE-D4
42	~~98~~	~~444~~	~~22:12~~	~~36~~	~~0.951~~	~~A BB~~	~~278.~~	~~0.092 PPB~~	0.2	42	TOLUENE-D8
46	NOT FOUND								0.0	46	BROMOFLUOROBENZENE

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
1	7:57	0	1.000	1.00	50.00	50.00	1.000	1.000	1.00	1	BROMOCHLOROMETHANE
13	18:36	6	1.000	1.00	50.00	50.00	1.000	1.000	1.00	13	1,4-DIFLUOROBENZENE
36	23:24	3	1.000	1.00	50.00	50.00	1.000	1.000	1.00	36	CHLOROBENZENE-D5
19	10:51		1.365							19	1,2-DICHLOROETHANE-D4
42	~~22:15~~	~~3~~	~~0.951~~	~~1.00~~	~~0.09~~	~~50.00~~	~~0.002~~	~~1.224~~	0.00	42	TOLUENE-D8
46	27:18		1.167							46	BROMOFLUOROBENZENE

CKW050BHV (05/30/90 8:41) RFs loaded on OWAC 5/30/90 9:43:24

Sample: L#114880D1 CLI#SEPTIC-SLUDGEDL ETR#21436 4.17G/10ML->0.35UL/5ML 05/30/90 1336
Conditions: GC/MS OWAC OWAC -- CMP
Method: 8240-4 Matrix: MED SOIL Lab ID: 114880D Client ID: SEPTIC-SLUDGEDL ETR Number: 21436
Submitted by: ADIENV
Weight: 4.170 g

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
2	NOT FOUND									2	CHLOROMETHANE
3	NOT FOUND									3	BROMOMETHANE
4	NOT FOUND									4	VINYL CHLORIDE
5	NOT FOUND									5	CHLOROETHANE
6	84	91	4:33	1	0.572	A BB	2467.	1.873 PPB		6	METHYLENE CHLORIDE
7	NOT FOUND									7	ACETONE
8	NOT FOUND									8	ACROLEIN
9	NOT FOUND									9	ACRYLONITRILE
10	NOT FOUND									10	CARBON DISULFIDE
11	NOT FOUND									11	TRICHLOROFLUOROMETHANE
12	NOT FOUND									12	1,1-DICHLOROETHENE
14	63	176	8:48	1	1.107	A BB	9749.	7.260 PPB		14	1,1-DICHLOROETHANE
15	NOT FOUND									15	TETRAHYDROFURAN
16	NOT FOUND									16	1,2-DICHLOROETHENE (TOTAL)
17	83	~~176~~	~~8:48~~	~~1~~	~~1.107~~	~~A BB~~	~~1173.~~	~~0.713 PPB~~		17	CHLOROFORM
18	NOT FOUND									18	1,2-DICHLOROETHANE
20	NOT FOUND									20	2-BUTANONE
21	NOT FOUND									21	FREON TF
22	97	240	12:00	13	0.649	A BB	137688.	109.628 PPB		22	1,1,1-TRICHLOROETHANE
~~23~~	~~117~~	~~240~~	~~12:00~~	~~13~~	~~0.649~~	~~A BB~~	~~19847.~~	~~14.894 PPB~~		23	CARBON TETRACHLORIDE
24	NOT FOUND									24	VINYL ACETATE
25	NOT FOUND									25	BROMODICHLOROMETHANE
26	NOT FOUND									26	1,2-DICHLOROPROPANE
27	NOT FOUND									27	CIS-1,3-DICHLOROPROPENE
28	NOT FOUND									28	TRICHLOROETHENE
29	NOT FOUND									29	DIBROMOCHLOROMETHANE
30	NOT FOUND									30	METHYLCYCLOHEXANE
31	NOT FOUND									31	1,1,2-TRICHLOROETHANE
32	NOT FOUND									32	BENZENE
33	NOT FOUND									33	TRANS-1,3-DICHLOROPROPENE
34	NOT FOUND									34	2-CHLOROETHYLVINYLETHER
35	NOT FOUND									35	BROMOFORM
37	NOT FOUND									37	4-METHYL-2-PENTANONE
38	NOT FOUND									38	2-HEXANONE
39	NOT FOUND									39	1,1,2,2-TETRACHLOROETHANE
40	NOT FOUND									40	TETRACHLOROETHENE
41	NOT FOUND									41	BUTYL ACETATE
43	92	448	22:24	36	0.959	A BB	1848.	1.069 PPB		43	TOLUENE
44	NOT FOUND									44	CHLOROBENZENE
45	NOT FOUND									45	ETHYLBENZENE
47	NOT FOUND									47	STYRENE
48	NOT FOUND									48	M-XYLENE
49	NOT FOUND									49	O- & P-XYLENE
50	NOT FOUND									50	O-DICHLOROBENZENE
51	NOT FOUND									51	CYCLOPENTANE
52	NOT FOUND									52	XYLENE (TOTAL)
53	NOT FOUND									53	2-PROPANOL

Sample: L#114880D1 CLI#SEPTIC-SLUDGEDL ETR#21436 4.17G/10ML->25UL/5ML 05/30/90 1336
Conditions: GC/MS OWAC OWAC -- CMP
Method: 8240-4 Matrix: MED SOIL Lab ID: 114880D Client ID: SEPTIC-SLUDGEDL ETR Number: 21436
Submitted by: ADIENV
Weight: 4.170 g

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	0:54		0.113							2	CHLOROMETHANE
3	1:30		0.189							3	BROMOMETHANE
4	2:03		0.258							4	VINYL CHLORIDE
5	2:45		0.346							5	CHLOROETHANE
6	4:33	0	0.572	1.00	1.87	50.00	0.073	1.955	0.04	6	METHYLENE CHLORIDE
7	5:36		0.704							7	ACETONE
8	5:39		0.711							8	ACROLEIN
9	6:18		0.792							9	ACRYLONITRILE
10	6:12		0.780							10	CARBON DISULFIDE
11	6:45		0.849							11	TRICHLOROFLUOROMETHANE
12	7:33		0.950							12	1,1-DICHLOROETHENE
14	8:48	0	1.107	1.00	7.26	50.00	0.289	1.992	0.15	14	1,1-DICHLOROETHANE
15	9:00		1.132							15	TETRAHYDROFURAN
16	9:42		1.220							16	1,2-DICHLOROETHENE (TOTAL)
17	10:06	78*	1.270	0.87	0.71	50.00	0.035	2.440	0.01	17	CHLOROFORM
18	10:57		1.377							18	1,2-DICHLOROETHANE
20	11:15		1.415							20	2-BUTANONE
21	10:27		0.562							21	FREON TF
22	12:06	6	0.651	1.00	109.63	50.00	0.942	0.430	2.19	22	1,1,1-TRICHLOROETHANE
23	12:30	30*	0.672	0.97	14.89	50.00	0.136	0.456	0.30	23	CARBON TETRACHLORIDE
24	13:06		0.704							24	VINYL ACETATE
25	13:06		0.704							25	BROMODICHLOROMETHANE
26	14:30		0.780							26	1,2-DICHLOROPROPANE
27	14:51		0.798							27	CIS-1,3-DICHLOROPROPENE
28	15:24		0.828							28	TRICHLOROETHENE
29	15:48		0.849							29	DIBROMOCHLOROMETHANE
30	18:15		0.981							30	METHYLCYCLOHEXANE
31	16:00		0.860							31	1,1,2-TRICHLOROETHANE
32	16:00		0.860							32	BENZENE
33	16:06		0.866							33	TRANS-1,3-DICHLOROPROPENE
34	17:15		0.927							34	2-CHLOROETHYLVINYLETHER
35	18:27		0.992							35	BROMOFORM
37	19:12		0.821							37	4-METHYL-2-PENTANONE
38	20:48		0.889							38	2-HEXANONE
39	20:45		0.887							39	1,1,2,2-TETRACHLOROETHANE
40	21:03		0.900							40	TETRACHLOROETHENE
41	21:54		0.936							41	BUTYL ACETATE
43	22:27	3	0.959	1.00	1.07	50.00	0.015	0.700	0.02	43	TOLUENE
44	23:30		1.004							44	CHLOROBENZENE
45	25:21		1.083							45	ETHYLBENZENE
47	28:33		1.220							47	STYRENE
48	28:51		1.233							48	M-XYLENE
49	29:33		1.263							49	O- & P-XYLENE
50	32:51		1.404							50	O-DICHLOROBENZENE
51	8:00		1.006							51	CYCLOPENTANE
52	28:51		1.233							52	XYLENE (TOTAL)
53	7:00		0.881							53	2-PROPANOL

C114880E7V$_{16}$

Sample: L#114880D1 CLI#SEPTIC-SLUDGEDL ETR#21436 4.17G/10ML->0.35UL/5ML 05/30/90 1336
Conditions: GC/MS OWAC OWAC -- CMP
Method: 8240-4 Matrix: MED SOIL Lab ID: 114880D Client ID: SEPTIC-SLUDGEDL ETR Number: 21436
Submitted by: ADIENV
Weight: 4.170 g

$QF = \frac{10.0}{4.2} \times \frac{5.0}{0.00035} = 34013.60544$ ug/kg as received cjp

Summary of Tentatively Identified Compounds

Rank	Scan	Dec. Time	En.RIC Height	Est. Amount	Ref	Name
3	92	4.60	4751.	5.5	1	UNKNOWN TCL#6
ISTD	159	7.95	43520.	50.0	1	BROMOCHLOROMETHANE
1	241	12.05	102143.	117.4	1	UNKNOWN TCL#22
ISTD	370	18.50	60800.	50.0	13	1,4-DIFLUOROBENZENE
ISTD	467	23.35	76493.	50.0	36	CHLOROBENZENE-D5
2	665	33.25	11135.	7.3	36	UNKNOWN dichlorobenzene 250000 J

ITIC for reporting cjp

PROCEDURE: TCA DIAGNOSTIC REPORT 5/30/90 14:11:56
DATA FILE: C114880E7V
REFERENCE: JTAB11
NAME LIST: UM INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: UMRET1

STANDARDS PROC	STANDARDS USED	STANDARDS POSS	STANDARDS RMS	PLUS UNKNOWNS PROC	PLUS UNKNOWNS USED	PLUS UNKNOWNS POSS	PLUS UNKNOWNS RMS	LIST NAMES STANDARD/UNKNOWN
1	1	1	0	13	2	1	0	UMRET1/UMUNK1
2	2	1	0	14	6	1	1157	UMRET2/UMUNK2
2	2	1	0	13	2	1	0	UMRET2/UMUNK3
2	1	1	0	9	3	1	77	UMRET3/UMUNK4
1	1	1	0	8	2	2	130	UMRET4/UMUNK5

52 COMPOUNDS PROCESSED, 9 FOUND

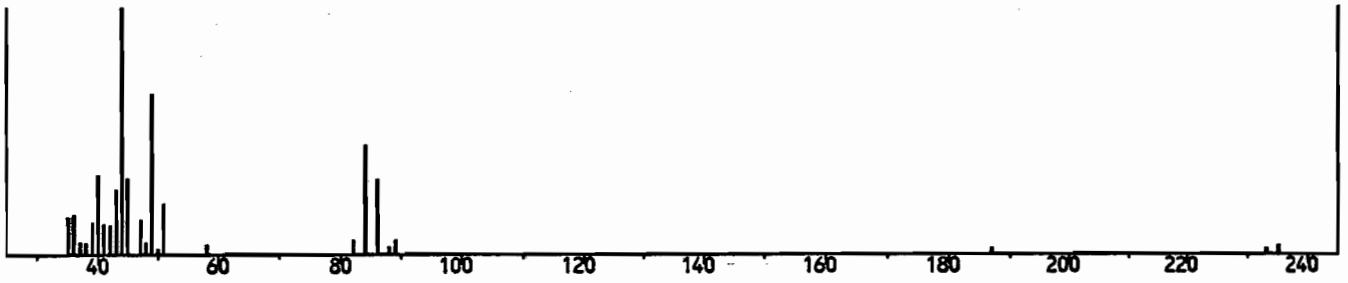
COMPOUND NO	LIB	ENTRY	SEARCH REF	SEARCH PRED	SEARCH SEL	SEARCH DELTA	SEARCH PEAKS	SAT FIT	SAT PEAKS	CHRO M/Z	CHRO TOP	CHRO DELTA	CHRO PEAKS
1	UM	1	-158	159	159	.	1	987	.	128	159	.	1
2	UM	2	-18	21	.	.	.	.	.	50	.	.	.
3	UM	3	-30	33	.	.	.	.	.	94	.	.	.
4	UM	4	-40	43	.	.	.	.	.	62	.	.	.
5	UM	5	-55	57	.	.	.	.	.	64	.	.	.
6	UM	6	-89	91	91	.	1	982	.	84	91	.	1
7	UM	7	-113	115	.	.	.	.	.	43	.	.	.
8	UM	8	-112	114	.	.	.	.	.	56	.	.	.
9	UM	9	-125	126	.	.	.	.	.	53	.	.	.
10	UM	10	-122	124	.	.	.	.	.	76	.	.	.
11	UM	11	-134	135	.	.	.	.	.	101	.	.	.
12	UM	12	-151	152	.	.	.	.	.	96	.	.	.
13	UM	53	-144	145	.	.	.	.	.	45	.	.	.
14	UM	13	-371	370	370	.	1	1000	.	114	370	.	1
15	UM	51	-160	153	.	.	.	.	.	55	.	.	.
16	UM	14	-176	169	176	7	1	996	.	63	176	.	1
17	UM	15	-180	173	.	.	.	.	.	71	.	.	.
18	UM	16	-193	186	.	.	.	.	.	96	.	.	.
19	UM	17	-202	195	176	-19	1	916	.	83	176	.	1
20	UM	18	-219	212	.	.	.	.	.	62	.	.	.
21	UM	19	-217	210	.	.	.	.	.	65	.	.	.
22	UM	20	-224	218	.	.	.	.	.	72	.	.	.
23	UM	21	-210	203	.	.	.	.	.	101	.	.	.
24	UM	22	-242	236	240	4	1	996	.	97	240	.	1
25	UM	23	-250	244	240	-4	1	957	.	117	240	.	1
26	UM	24	-262	256	.	.	.	.	.	43	.	.	.
27	UM	25	-262	262	.	.	.	.	.	83	.	.	.
28	UM	26	-291	291	.	.	.	.	.	63	.	.	.
29	UM	27	-297	297	.	.	.	.	.	75	.	.	.
30	UM	28	-309	309	.	.	.	.	.	130	.	.	.
31	UM	29	-316	316	.	.	.	.	.	129	.	.	.
32	UM	30	-365	364	.	.	.	.	.	98	.	.	.
33	UM	31	-320	319	.	.	.	.	.	97	.	.	.
34	UM	32	-320	319	.	.	.	.	.	78	.	.	.
35	UM	33	-322	321	.	.	.	.	.	75	.	.	.
36	UM	34	-345	344	.	.	.	.	.	63	.	.	.
37	UM	35	-369	368	.	.	.	.	.	173	.	.	.
38	UM	36	-467	466	.	.	.	.	.	117	467	.	1
39	UM	37	-384	383	.	.	.	.	.	43	.	.	.
40	UM	38	-416	415	.	.	.	.	.	43	.	.	.
41	UM	39	-415	414	.	.	.	.	.	83	.	.	.
42	UM	40	-421	420	.	.	.	.	.	164	.	.	.
43	UM	41	-438	437	.	.	.	.	.	56	.	.	.
44	UM	42	-444	443	.	.	.	.	.	98	444	.	1
45	UM	43	-448	447	448	1	1	996	.	92	448	.	1
46	UM	44	-469	451	.	.	.	.	.	112	.	.	.
47	UM	45	-506	487	.	.	.	.	.	106	.	.	.
48	UM	46	-545	524	.	.	.	.	.	95	.	.	.
49	UM	47	-569	547	547	.	2	168	.	104	.	.	.
50	UM	48	-575	553	.	.	.	.	.	106	.	.	.
51	UM	49	-589	567	.	.	.	.	.	106	.	.	.
52	UM	50	-653	628	.	.	.	.	.	146	.	.	.

C114880E7V 6

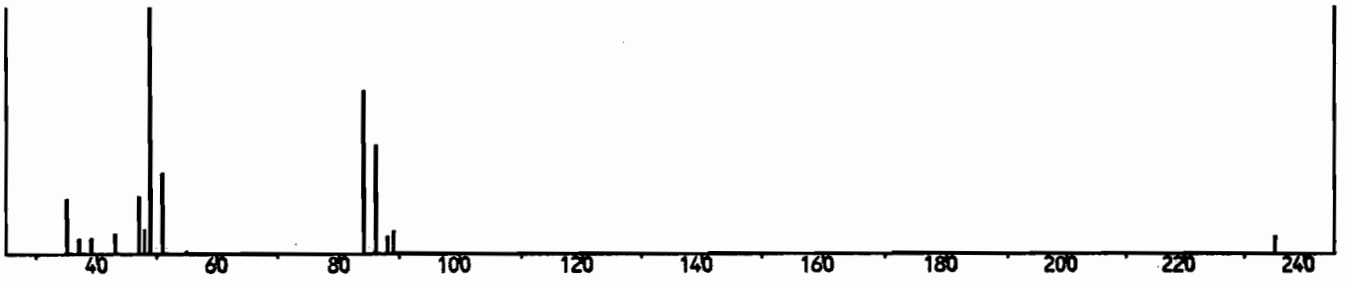
Sample: L#114880D1 CLI#SEPTIC-SLUDGEDL ETR#21436 4.17G/10ML->0.35UL/5ML 05/30/90 1336
Conditions: GC/MS OWAC OWAC -- CMP
Method: 8240-4 Matrix: MED SOIL Lab ID: 114880D Client ID: SEPTIC-SLUDGEDL ETR Number: 21436
Submitted by: ADIENV
Weight: 4.170 g

LIBRARYUM#6 METHYLENE CHLORIDE

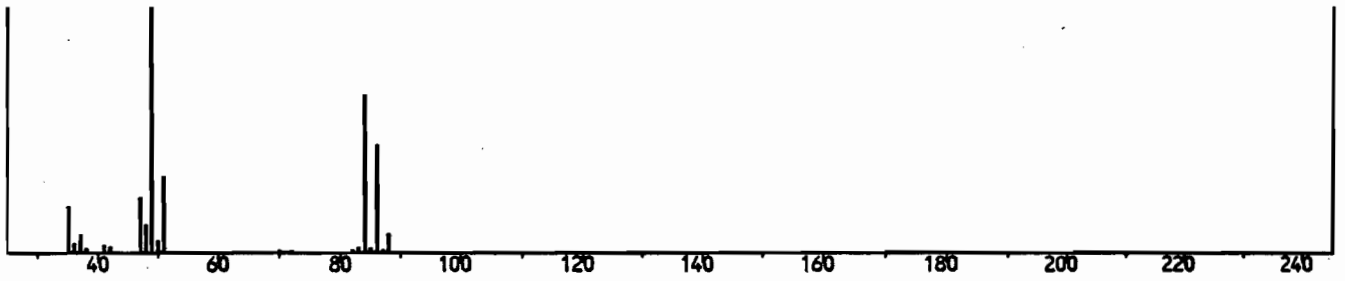
Unenhanced spectrum -- Scan # 91 ase m/z: 44 --- RIC: 7360. Max intensity: 1560



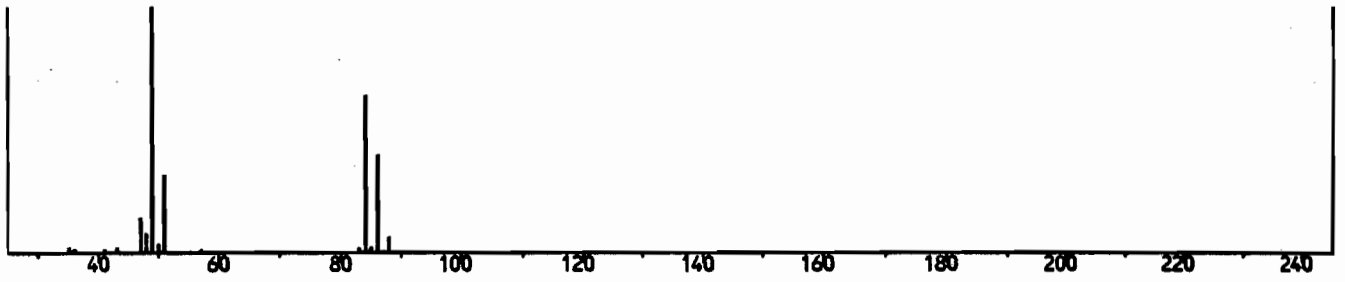
Enhanced (S 15B 2N 0T) -- Scan # 91 ase m/z: 49 --- RIC: 3332. Max intensity: 976



Enhanced CKW050BHV -- Scan # 91 Base m/z: 49 --- RIC: 89216. Max intensity: 26752



LIBRARYUM#6 CAS: 75-09-2 METHANE, DICHLORO- (CH2Cl2)

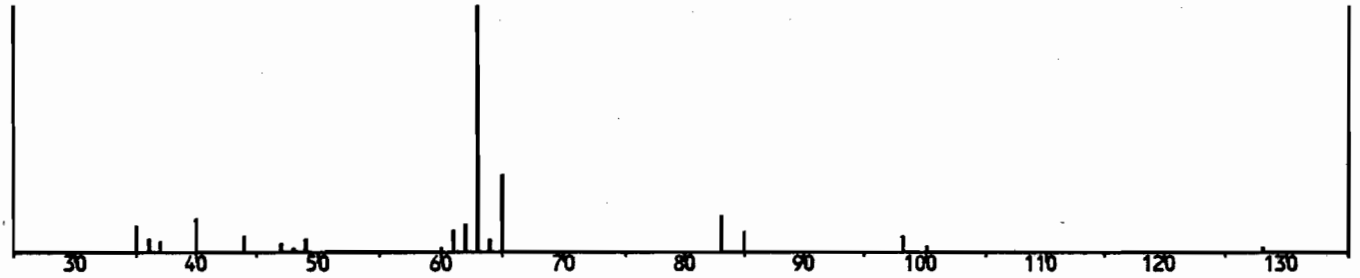


Sample: L#11488001 CLI#SEPTIC-SLUDGEDL ETR#21436 4.17G/10ML->0.35UL/5ML
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: MED SOIL Lab ID: 114880D Client ID: SEPTIC-SLUDGEDL ETR Number: 21436
Submitted by: ADIENV
Weight: 4.170 g

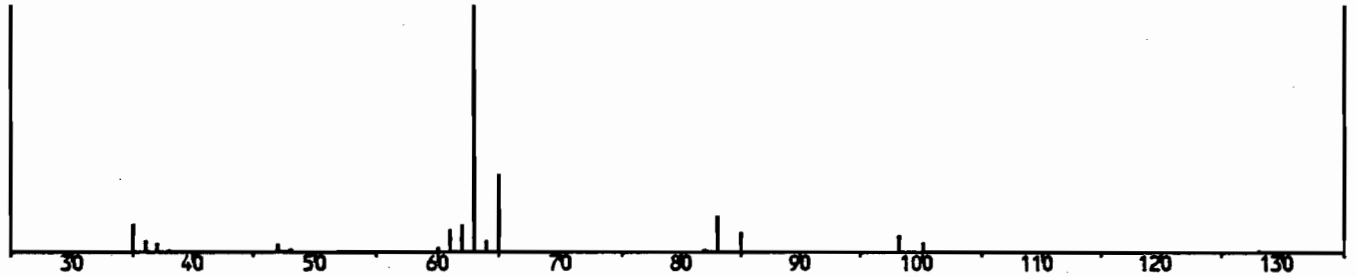
05/30/90 1336
OWAC -- CMP

LIBRARYUM#14 1,1-DICHLOROETHANE

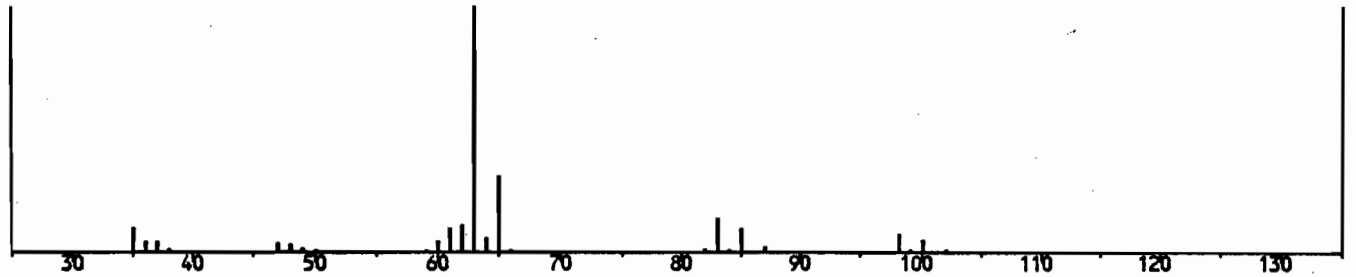
Unenhanced spectrum -- Scan # 176 ase m/z: 63 --- RIC: 5096. Max intensity: 2120



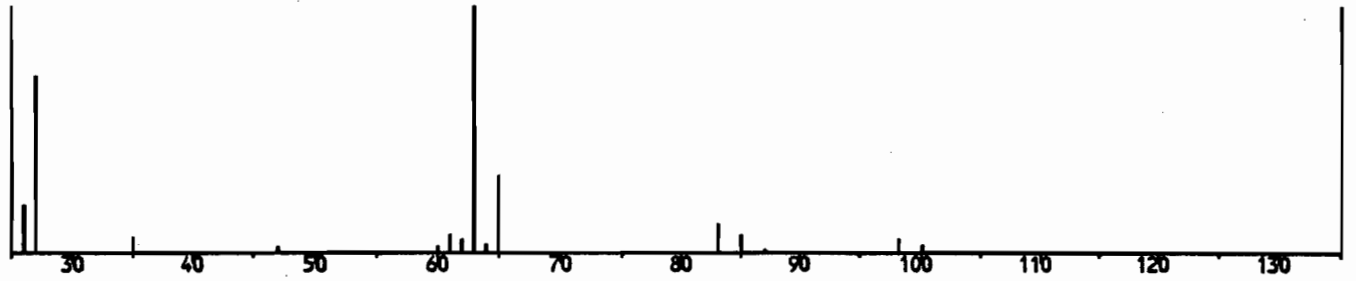
Enhanced (S 15B 2N 0T) -- Scan # 176 ase m/z: 63 --- RIC: 4480. Max intensity: 2100



Enhanced CKW050BHV -- Scan # 176 Base m/z: 63 --- RIC: 37504. Max intensity: 16064



LIBRARYUM#14 CAS: 75-34-3 ETHANE, 1,1-DICHLORO- (C2H4Cl2)



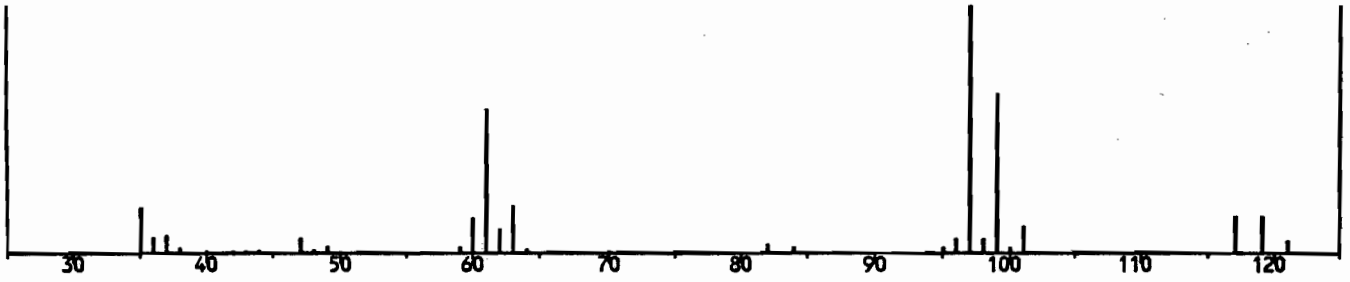
C114880E7V 9

Sample: L#1148800 CLI#SEPTIC-SLUDGEDL ETR#21436 4.17G/10ML->0.35UL/5ML
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: MED SOIL Lab ID: 1148800 Client ID: SEPTIC-SLUDGEDL ETR Number: 21436
Submitted by: ADIENV
Weight: 4.170 g

05/30/90 1336
OWAC -- CMP

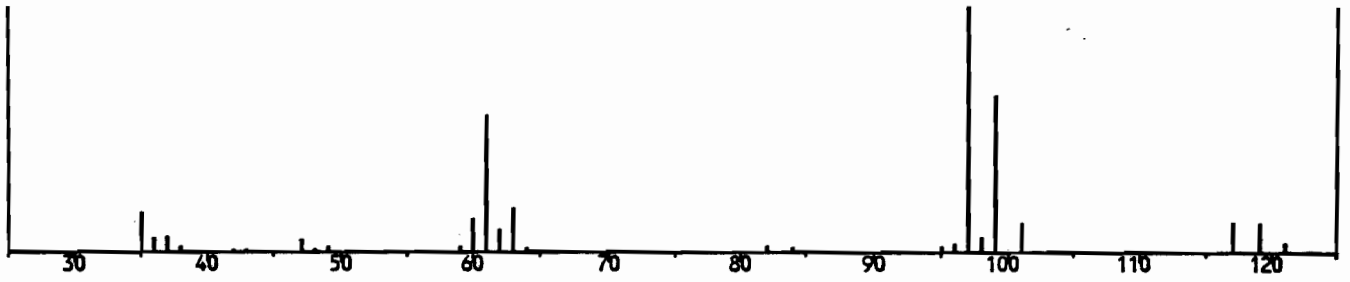
LIBRARYUM#22 1,1,1-TRICHLOROETHANE

Unenhanced spectrum -- Scan # 240 ase m/z: 97 --- RIC: 132352. Max intensity: 34496

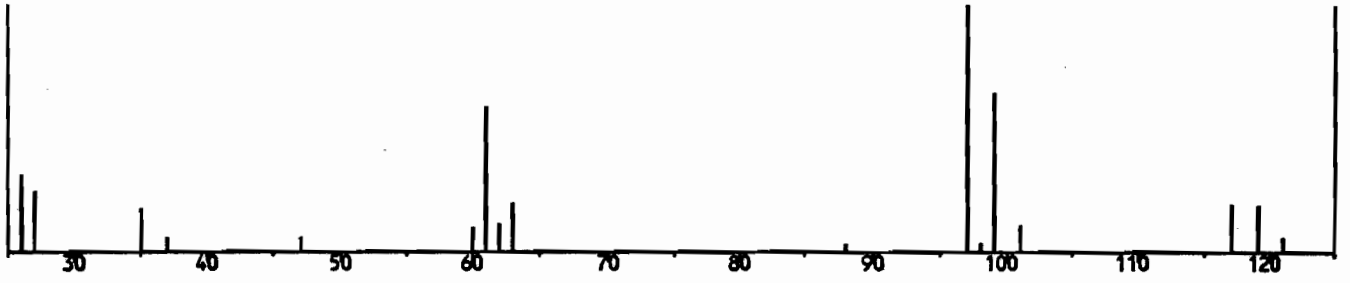


Enhanced (S 15B 2N 0T) -- Scan # 240 ase m/z: 97 --- RIC: 124928. Max intensity: 32544

Enhanced CKW050BHV -- Scan # 242 Base m/z: 97 --- RIC: 61696. Max intensity: 17056



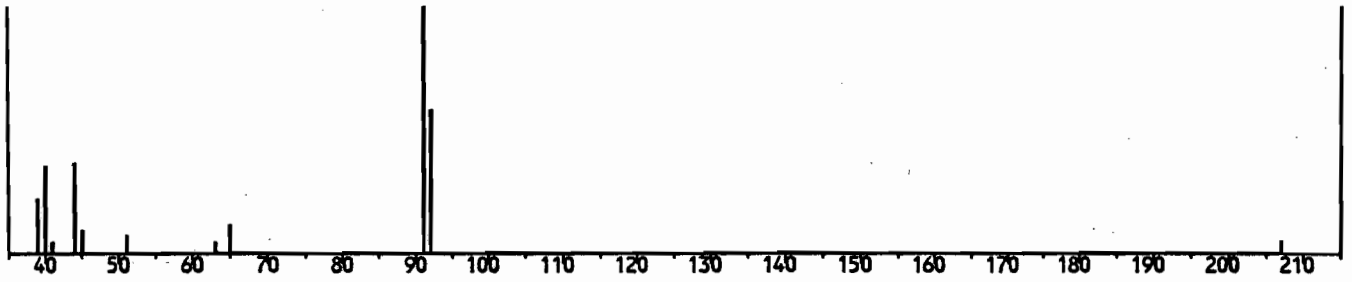
LIBRARYUM#22 CAS: 71-55-6 ETHANE, 1,1,1-TRICHLORO- (C2H3Cl3)



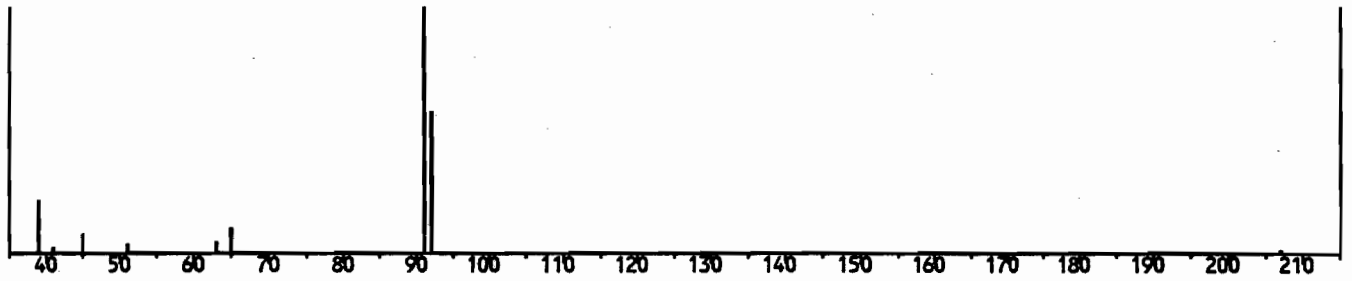
Sample: L#114880D1 CLI#SEPTIC-SLUDGEDL ETR#21436 4.17G/10ML->0.35UL/5ML 05/30/90 1336
Conditions: GC/MS OWAC OWAC -- CMP
Method: 8240-4 Matrix: MED SOIL Lab ID: 114880D Client ID: SEPTIC-SLUDGEDL ETR Number: 21436
Submitted by: ADIENV
Weight: 4.170 g

LIBRARYUM#43 TOLUENE

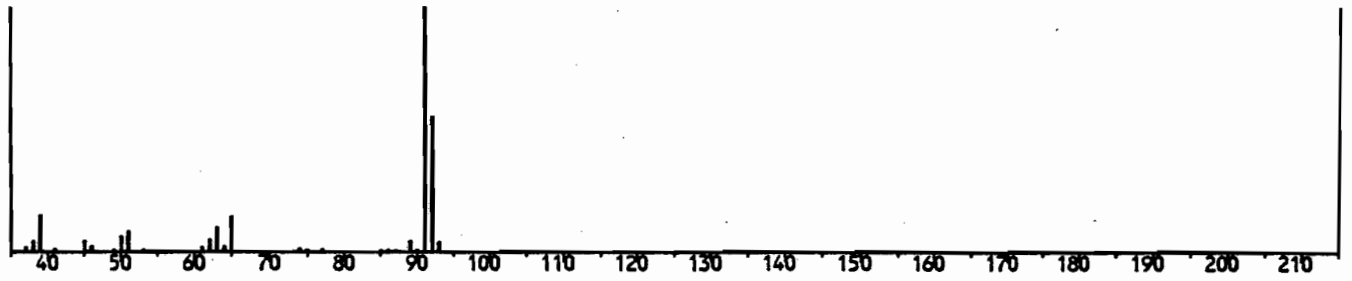
Unenhanced spectrum -- Scan # 448 ase m/z: 91 --- RIC: 2240. Max intensity: 769



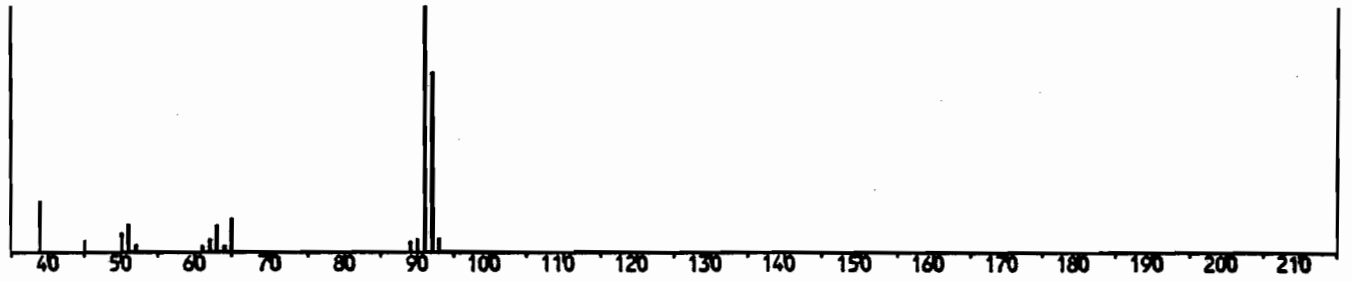
Enhanced (S 15B 2N 0T) -- Scan # 448 ase m/z: 91 --- RIC: 1566. Max intensity: 755



Enhanced CKW050BHV -- Scan # 449 Base m/z: 91 --- RIC: 101760. Max intensity: 40832



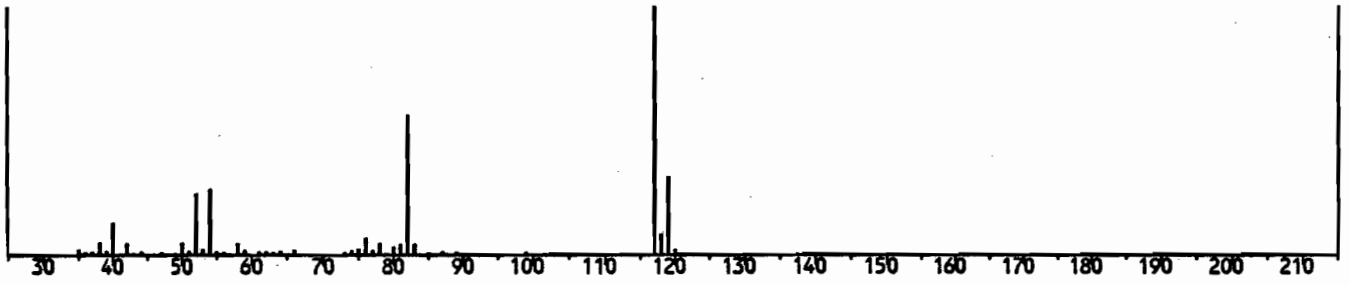
LIBRARYUM#43 CAS: 108-88-3 BENZENE, METHYL- (C7H8)



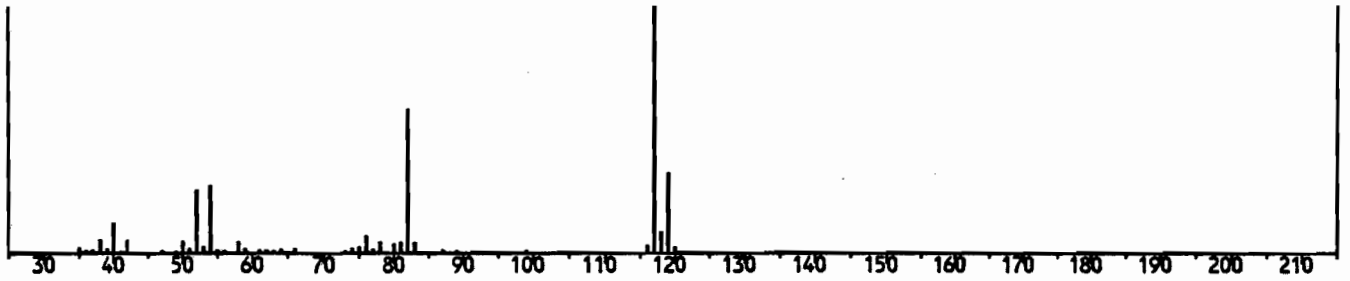
Sample: L#114880D1 CLI#SEPTIC-SLUDGEDL ETR#21436 4.17G/10ML->0.35UL/5ML 05/30/90 1336
Conditions: GC/MS OWAC OWAC -- CMP
Method: 8240-4 Matrix: MED SOIL Lab ID: 114880D Client ID: SEPTIC-SLUDGEDL ETR Number: 21436
Submitted by: ADIENV
Weight: 4.170 g

LIBRARYUM#36 CHLOROBENZENE-D5

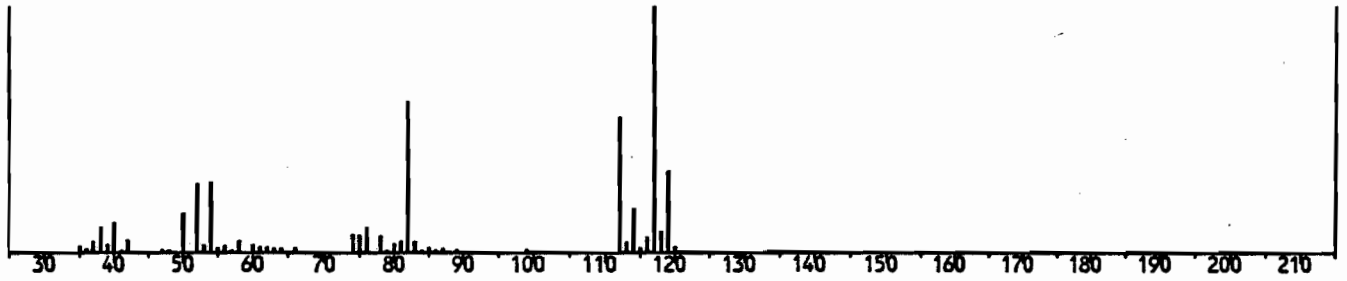
Unenhanced spectrum -- Scan # 467 ase m/z: 117 --- RIC: 99328. Max intensity: 29696



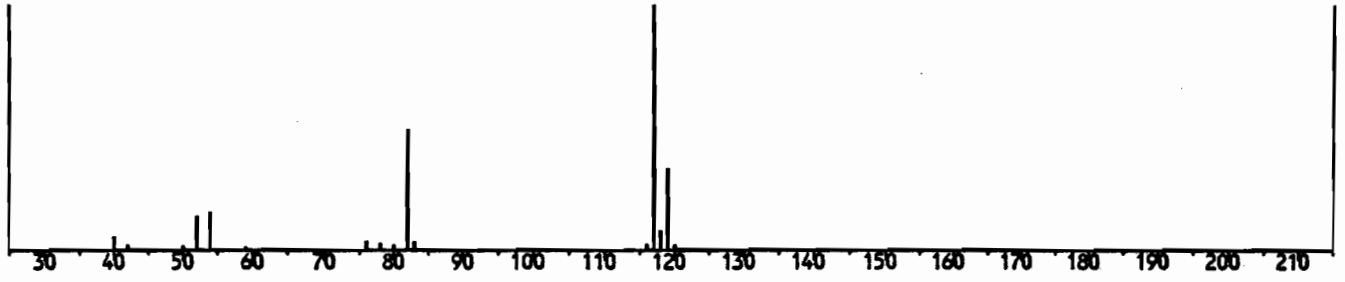
Enhanced (S 15B 2N 0T) -- Scan # 467 ase m/z: 117 --- RIC: 95872. Max intensity: 27872



Enhanced CKW050BHV -- Scan # 468 Base m/z: 117 --- RIC: 146688. Max intensity: 30304



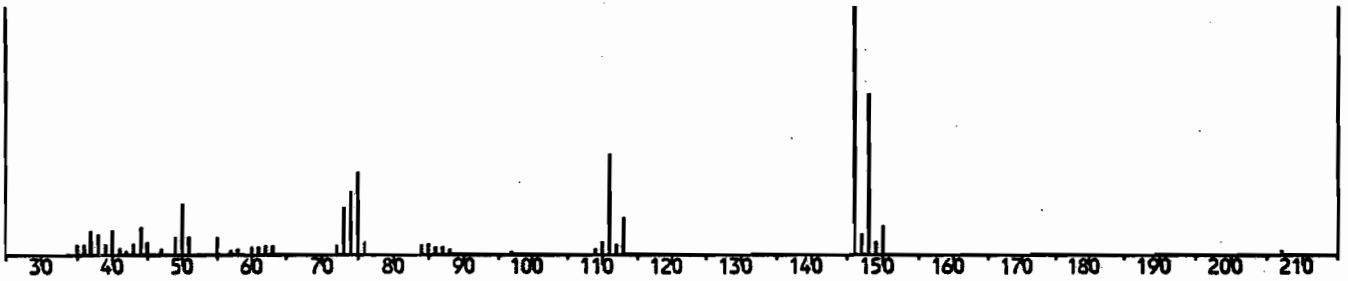
LIBRARYUM#36 CAS: 56-23-5 (IS) CHLOROBENZENE-D5 (C6ClD5)



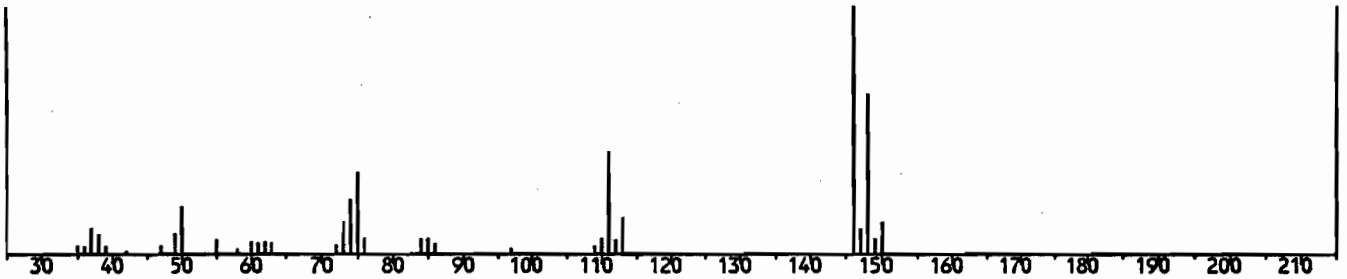
C114880E7V15

Sample: L#1148800D1 CLI#SEPTIC-SLUDGEDL ETR#21436 4.17G/10ML->0.35UL/5ML 05/30/90 1336
Conditions: GC/MS OWAC OWAC -- CMP
Method: 8240-4 Matrix: MED SOIL Lab ID: 1148800 Client ID: SEPTIC-SLUDGEDL ETR Number: 21436
Submitted by: ADIENV
Weight: 4.170 g

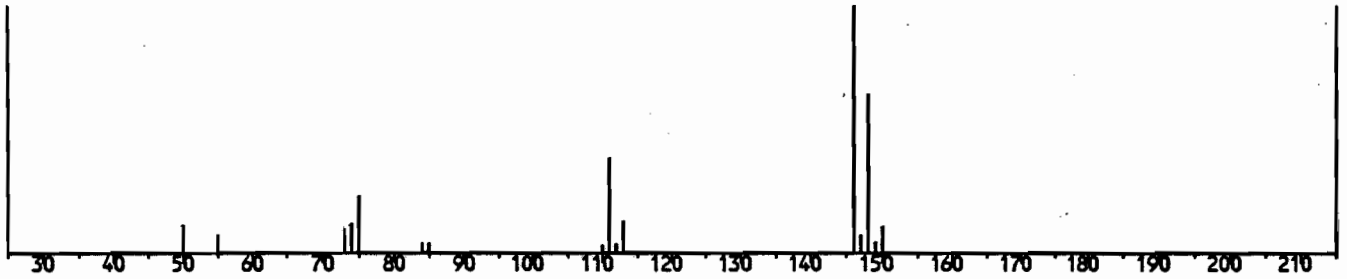
Unenhanced spectrum -- Scan # 665 ase m/z: 146 --- RIC: 17216. Max intensity: 3512



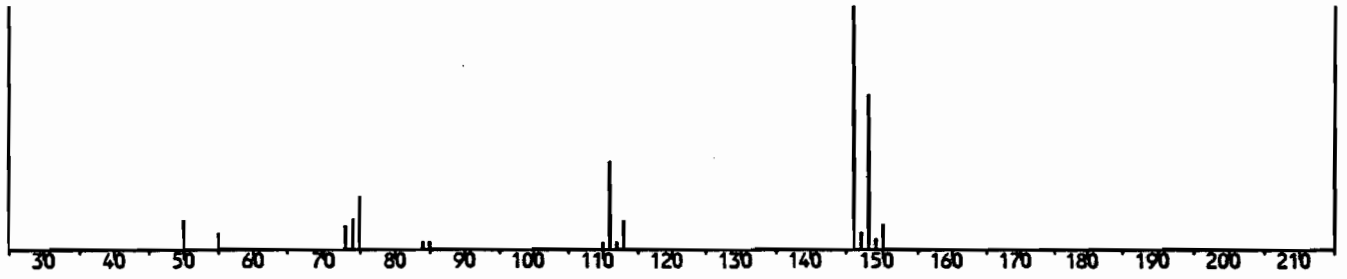
Enhanced (S 15B 2N 0T) -- Scan # 665 ase m/z: 146 --- RIC: 11135 Max intensity: 2520



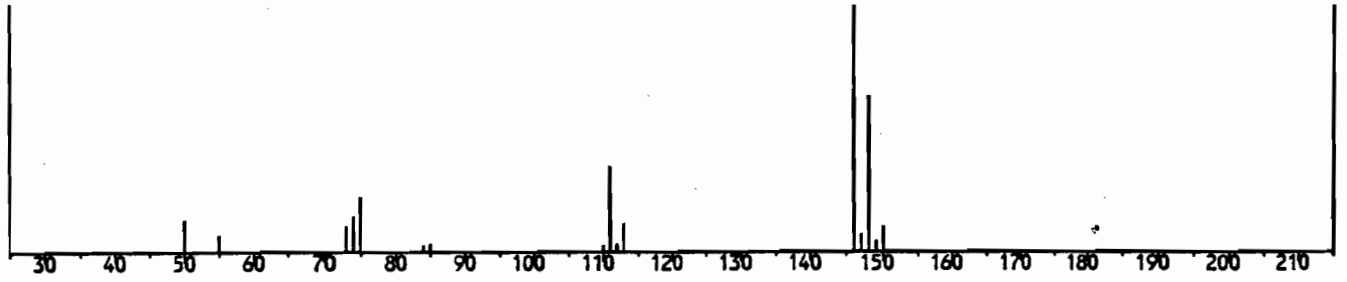
NB# 6890 CAS: 95-50-1 BENZENE, 1,2-DICHLORO- (C6H4Cl2) PURITY:901 FIT:991 RFIT:901



NB# 6892 CAS: 541-73-1 BENZENE, 1,3-DICHLORO- (C6H4Cl2) PURITY:900 FIT:991 RFIT:900



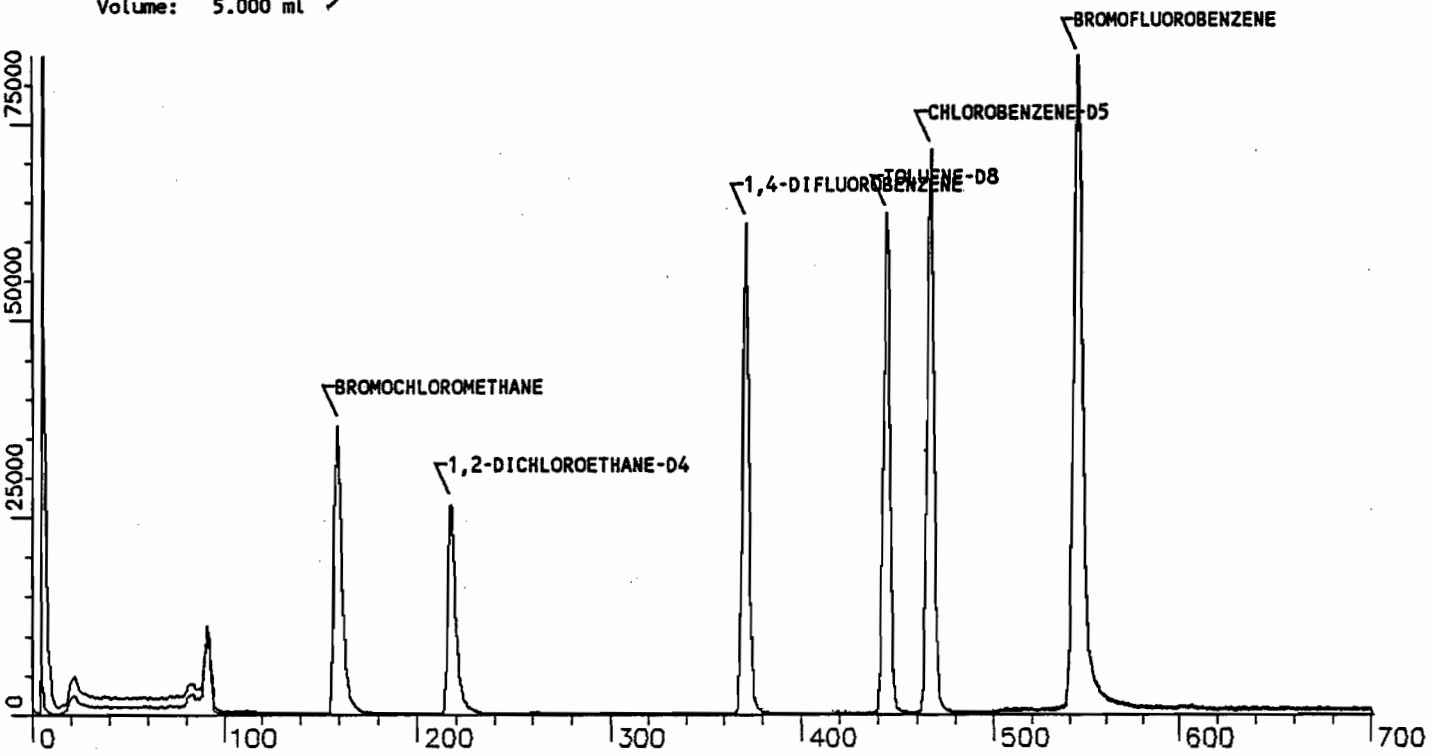
NB# 6891 CAS: 106-46-7 BENZENE, 1,4-DICHLORO- (C6H4Cl2) PURITY:900 FIT:990 RFIT:900



C114944V 1

Sample: L#114944 CLI#TRIP_BLANK ETR#21455 100%
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: WATER Lab ID: 114944 Client ID: TRIP_BLANK ETR Number: 21455 Submitted by: ADIENV
Volume: 5.000 ml

05/24/90 2054
OWAC -- CMS



No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
1	128	159	7:57	1	1.000	A BB	19981.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	371	18:33	13	1.000	A BB	92431.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	467	23:21	36	1.000	A BB	76281.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	217	10:51	1	1.365	A BB	43382.	50.852 PPB	101.7	19	1,2-DICHLOROETHANE-D4
42	98	444	22:12	36	0.951	A BB	84003.	51.580 PPB	103.2	42	TOLUENE-D8
46	95	544	27:12	36	1.165	A BB	65671.	50.774 PPB	101.5	46	BROMOFLUOROBENZENE

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
1	8:00	3	1.000	1.00	50.00	50.00	1.000	1.000	1.00	1	BROMOCHLOROMETHANE
13	18:33	0	1.000	1.00	50.00	50.00	1.000	1.000	1.00	13	1,4-DIFLUOROBENZENE
36	23:21	0	1.000	1.00	50.00	50.00	1.000	1.000	1.00	36	CHLOROBENZENE-D5
19	10:51	0	1.356	1.01	50.85	50.00	2.171	2.135	1.02	19	1,2-DICHLOROETHANE-D4
42	22:15	3	0.953	1.00	51.58	50.00	1.101	1.067	1.03	42	TOLUENE-D8
46	27:15	3	1.167	1.00	50.77	50.00	0.861	0.848	1.02	46	BROMOFLUOROBENZENE

CKV050BHV (05/24/90 18:52) RFs loaded on OWAC 5/25/90 9:30:22

C114944V 2

Sample: L#114944 CLI#TRIP_BLANK ETR#21455 100%
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: WATER Lab ID: 114944 Client ID: TRIP_BLANK ETR Number: 21455 Submitted by: ADIENV
Volume: 5.000 ml

05/24/90 2054
OWAC -- CMS

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
2	NOT FOUND									2	CHLOROMETHANE
3	NOT FOUND									3	BROMOMETHANE
4	NOT FOUND									4	VINYL CHLORIDE
5	NOT FOUND									5	CHLOROETHANE
6	84	91	4:33	1	0.572	A BB	5271.	7.093 PPB		6	METHYLENE CHLORIDE
7	NOT FOUND									7	ACETONE
8	NOT FOUND									8	ACROLEIN
9	NOT FOUND									9	ACRYLONITRILE
10	NOT FOUND									10	CARBON DISULFIDE
11	NOT FOUND									11	TRICHLOROFLUOROMETHANE
12	NOT FOUND									12	1,1-DICHLOROETHENE
14	NOT FOUND									14	1,1-DICHLOROETHANE
15	NOT FOUND									15	TETRAHYDROFURAN
16	NOT FOUND									16	1,2-DICHLOROETHENE (TOTAL)
17	NOT FOUND									17	CHLOROFORM
18	NOT FOUND									18	1,2-DICHLOROETHANE
20	NOT FOUND									20	2-BUTANONE
21	NOT FOUND									21	FREON TF
22	NOT FOUND									22	1,1,1-TRICHLOROETHANE
23	NOT FOUND									23	CARBON TETRACHLORIDE
24	NOT FOUND									24	VINYL ACETATE
25	NOT FOUND									25	BROMODICHLOROMETHANE
26	NOT FOUND									26	1,2-DICHLOROPROPANE
27	NOT FOUND									27	CIS-1,3-DICHLOROPROPENE
28	NOT FOUND									28	TRICHLOROETHENE
29	NOT FOUND									29	DIBROMOCHLOROMETHANE
30	NOT FOUND									30	METHYLCYCLOHEXANE
31	NOT FOUND									31	1,1,2-TRICHLOROETHANE
32	NOT FOUND									32	BENZENE
33	NOT FOUND									33	TRANS-1,3-DICHLOROPROPENE
34	NOT FOUND									34	2-CHLOROETHYLVINYLETHER
35	NOT FOUND									35	BROMOFORM
37	NOT FOUND									37	4-METHYL-2-PENTANONE
38	43	~~418~~	~~20:54~~	~~36~~	~~0.895~~	~~A BB~~	~~121.~~	~~0.148 PPB~~		38	2-HEXANONE
39	NOT FOUND									39	1,1,2,2-TETRACHLOROETHANE
40	NOT FOUND									40	TETRACHLOROETHENE
41	NOT FOUND									41	BUTYL ACETATE
43	NOT FOUND									43	TOLUENE
44	NOT FOUND									44	CHLOROBENZENE
45	NOT FOUND									45	ETHYLBENZENE
47	NOT FOUND									47	STYRENE
48	NOT FOUND									48	M-XYLENE
49	NOT FOUND									49	O- & P-XYLENE
50	146	~~653~~	~~32:39~~	~~36~~	~~1.398~~	~~A BB~~	~~72.~~	~~0.050 PPB~~		50	O-DICHLOROBENZENE
51	NOT FOUND									51	CYCLOPENTANE
52	NOT FOUND									52	XYLENE (TOTAL)
53	NOT FOUND									53	2-PROPANOL

C114944V 3

Sample: L#114944 CLI#TRIP_BLANK ETR#21455 100%
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: WATER Lab ID: 114944 Client ID: TRIP_BLANK ETR Number: 21455 Submitted by: ADIENV
Volume: 5.000 ml

05/24/90 2054
OWAC -- CMS

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	1:03		0.131							2	CHLOROMETHANE
3	1:36		0.200							3	BROMOMETHANE
4	2:03		0.256							4	VINYL CHLORIDE
5	2:45		0.344							5	CHLOROETHANE
6	4:36	3	0.575	1.00	7.09	50.00	0.264	1.860	0.14	6	METHYLENE CHLORIDE
7	5:36		0.700							7	ACETONE
8	5:42		0.713							8	ACROLEIN
9	6:21		0.794							9	ACRYLONITRILE
10	6:24		0.800							10	CARBON DISULFIDE
11	6:48		0.850							11	TRICHLOROFLUOROMETHANE
12	7:36		0.950							12	1,1-DICHLOROETHENE
14	8:48		1.100							14	1,1-DICHLOROETHANE
15	9:00		1.125							15	TETRAHYDROFURAN
16	9:42		1.212							16	1,2-DICHLOROETHENE (TOTAL)
17	10:06		1.262							17	CHLOROFORM
18	10:57		1.369							18	1,2-DICHLOROETHANE
20	11:12		1.400							20	2-BUTANONE
21	10:27		0.563							21	FREON TF
22	12:06		0.652							22	1,1,1-TRICHLOROETHANE
23	12:27		0.671							23	CARBON TETRACHLORIDE
24	13:03		0.704							24	VINYL ACETATE
25	13:06		0.706							25	BROMODICHLOROMETHANE
26	14:30		0.782							26	1,2-DICHLOROPROPANE
27	14:51		0.801							27	CIS-1,3-DICHLOROPROPENE
28	15:27		0.833							28	TRICHLOROETHENE
29	15:51		0.854							29	DIBROMOCHLOROMETHANE
30	18:15		0.984							30	METHYLCYCLOHEXANE
31	16:00		0.863							31	1,1,2-TRICHLOROETHANE
32	16:00		0.863							32	BENZENE
33	16:06		0.868							33	TRANS-1,3-DICHLOROPROPENE
34	17:15		0.930							34	2-CHLOROETHYLVINYLETHER
35	18:27		0.995							35	BROMOFORM
37	19:12		0.822							37	4-METHYL-2-PENTANONE
~~38~~	~~20:48~~	~~6~~	~~0.891~~	~~1.00~~	~~0.15~~	~~50.00~~	~~0.002~~	~~0.536~~	~~0.00~~	38	2-HEXANONE
39	20:45		0.889							39	1,1,2,2-TETRACHLOROETHANE
40	21:00		0.899							40	TETRACHLOROETHENE
41	21:54		0.938							41	BUTYL ACETATE
43	22:27		0.961							43	TOLUENE
44	23:30		1.006							44	CHLOROBENZENE
45	25:18		1.084							45	ETHYLBENZENE
47	28:30		1.221							47	STYRENE
48	28:48		1.233							48	M-XYLENE
49	29:30		1.263							49	O- & P-XYLENE
~~50~~	~~32:45~~	~~6~~	~~1.403~~	~~1.00~~	~~0.05~~	~~50.00~~	~~0.001~~	~~0.938~~	~~0.00~~	50	O-DICHLOROBENZENE
51	8:03		1.006							51	CYCLOPENTANE
52	28:48		1.233							52	XYLENE (TOTAL)
53	7:03		0.881							53	2-PROPANOL

C114944V$_{12}$

Sample: L#114944 CLI#TRIP_BLANK ETR#21455 100%
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: WATER Lab ID: 114944 Client ID: TRIP_BLANK ETR Number: 21455 Submitted by: ADIENV
Volume: 5.000 ml

05/24/90 2054
OWAC -- CMS

Summary of Tentatively Identified Compounds

Rank	Scan	Dec. Time	En.RIC Height	Est. Amount	Ref	Name
ISTD	159	7.95	31168.	50.0	1	BROMOCHLOROMETHANE
ISTD	371	18.55	42432.	50.0	13	1,4-DIFLUOROBENZENE
ISTD	467	23.35	52953.	50.0	36	CHLOROBENZENE-D5

Ø TICs for reporting
cp

PROCEDURE: TCA DIAGNOSTIC REPORT 5/24/90 21:32:47
DATA FILE: C114944V
REFERENCE: JTAB11
NAME LIST: UM INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: UMRET1

STANDARDS PROC	STANDARDS USED	STANDARDS POSS	STANDARDS RMS	PLUS UNKNOWNS PROC	PLUS UNKNOWNS USED	PLUS UNKNOWNS POSS	PLUS UNKNOWNS RMS	LIST NAMES STANDARD/UNKNOWN
1	1	1	0	1	1	1	0	UMRET1/UMUNK1
2	2	1	0	1	1	1	57	UMRET2/UMUNK2
2	2	1	0	1	1	1	0	UMRET2/UMUNK3
2	1	1	0	1	1	1	0	UMRET3/UMUNK4
1	1	1	0	1	1	1	0	UMRET4/UMUNK5

52 COMPOUNDS PROCESSED. 5 FOUND

COMPOUND NO	LIB	ENTRY	REF	PRED	SEARCH SRC	DELTA	PEAKS	SAT FIT	PEAKS	CHRO M/Z	TOP	DELTA	PEAKS
1	UM	1	-158	158	158	.	1	979	.	128	159	.	1
2	UM	2	-13	21	.	.	.	.	.	50	.	.	.
3	UM	3	-30	30	.	.	.	.	.	94	.	.	.
4	UM	4	-40	40	.	.	.	.	.	62	.	.	.
5	UM	5	-55	55	.	.	.	.	.	64	.	.	.
6	UM	6	-89	91	91	.	1	991	.	84	91	.	1
7	UM	7	-113	115	.	.	.	.	.	43	.	.	.
8	UM	8	-112	114	.	.	.	.	.	56	.	.	.
9	UM	9	-125	126	.	.	.	.	.	53	.	.	.
10	UM	10	-122	124	.	.	.	.	.	76	.	.	.
11	UM	11	-134	135	.	.	.	.	.	101	.	.	.
12	UM	12	-151	152	.	.	.	.	.	96	.	.	.
13	UM	53	-144	145	.	.	.	.	.	46	.	.	.
14	UM	13	-371	371	371	.	1	995	.	114	371	.	1
15	UM	51	-160	161	.	.	.	.	.	55	.	.	.
16	UM	14	-176	177	.	.	.	.	.	53	.	.	.
17	UM	15	-180	181	.	.	.	.	.	71	.	.	.
18	UM	16	-193	194	.	.	.	.	.	96	.	.	.
19	UM	17	-202	203	.	.	.	.	.	83	.	.	.
20	UM	18	-219	219	.	.	.	.	.	62	.	.	.
21	UM	19	-217	217	217	.	1	996	.	65	217	.	1
22	UM	20	-224	224	.	.	.	.	.	72	.	.	.
23	UM	21	-210	210	.	.	.	.	.	101	.	.	.
24	UM	22	-242	242	.	.	.	.	.	97	.	.	.
25	UM	23	-250	250	.	.	.	.	.	117	.	.	.
26	UM	24	-262	262	.	.	.	.	.	43	.	.	.
27	UM	25	-262	262	.	.	.	.	.	83	.	.	.
28	UM	26	-291	291	.	.	.	.	.	93	.	.	.
29	UM	27	-297	297	.	.	.	.	.	75	.	.	.
30	UM	28	-309	309	.	.	.	.	.	130	.	.	.
31	UM	29	-316	316	.	.	.	.	.	129	.	.	.
32	UM	30	-365	365	.	.	.	.	.	98	.	.	.
33	UM	31	-320	320	.	.	.	.	.	97	.	.	.
34	UM	32	-320	320	.	.	.	.	.	78	.	.	.
35	UM	33	-322	322	.	.	.	.	.	75	.	.	.
36	UM	34	-345	345	.	.	.	.	.	63	.	.	.
37	UM	35	-369	369	.	.	.	.	.	173	.	.	.
38	UM	36	-467	467	.	.	.	.	.	117	467	.	1
39	UM	37	-384	384	.	.	.	.	.	43	.	.	.
40	UM	38	-416	416	.	.	.	.	.	43	418	.	1
41	UM	39	-415	415	.	.	.	.	.	83	.	.	.
42	UM	40	-421	421	.	.	.	.	.	164	.	.	.
43	UM	41	-438	438	.	.	.	.	.	56	.	.	.
44	UM	42	-444	444	444	.	1	993	.	98	444	.	1
45	UM	43	-448	448	.	.	.	.	.	92	.	.	.
46	UM	44	-469	468	.	.	.	.	.	112	.	.	.
47	UM	45	-506	506	.	.	.	.	.	106	.	.	.
48	UM	46	-545	544	544	.	1	994	.	95	544	.	1
49	UM	47	-569	568	.	.	.	.	.	104	.	.	.
50	UM	48	-575	574	.	.	.	.	.	106	.	.	.
51	UM	49	-589	588	.	.	.	.	.	106	.	.	.
52	UM	50	-653	652	.	.	.	.	.	146	653	.	1

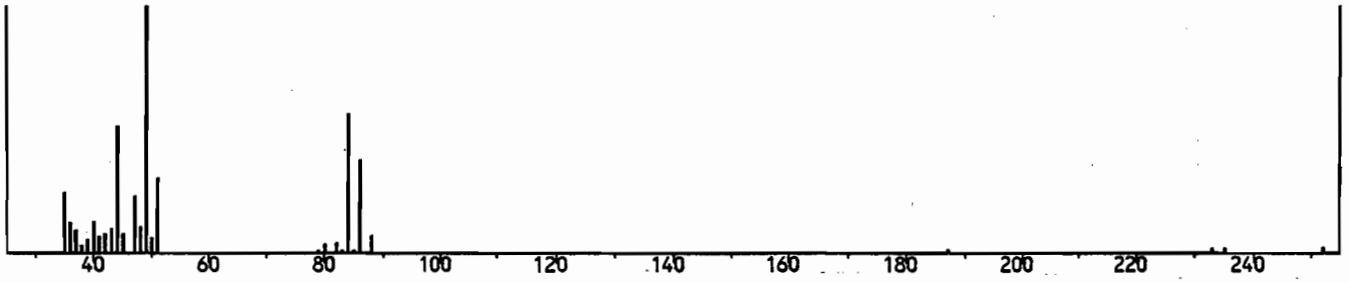
C114944V 6

Sample: L#114944 CLI#TRIP_BLANK ETR#21455 100%
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: WATER Lab ID: 114944 Client ID: TRIP_BLANK ETR Number: 21455 Submitted by: ADIENV
Volume: 5.000 ml

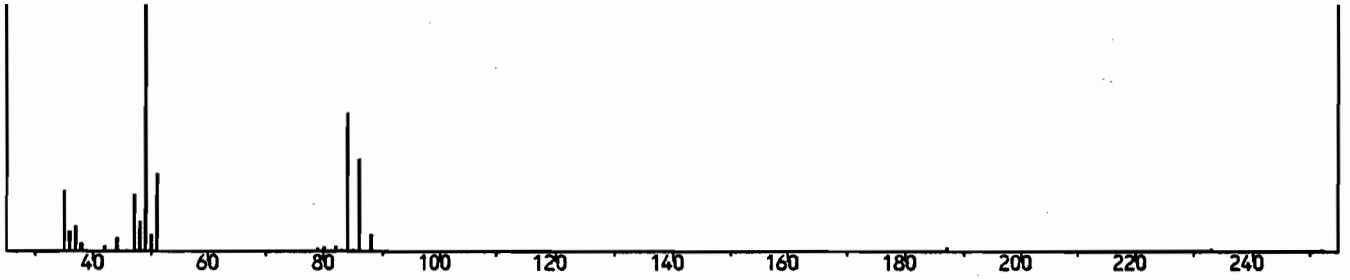
05/24/90 2054
OWAC -- CMS

LIBRARYUM#6 METHYLENE CHLORIDE

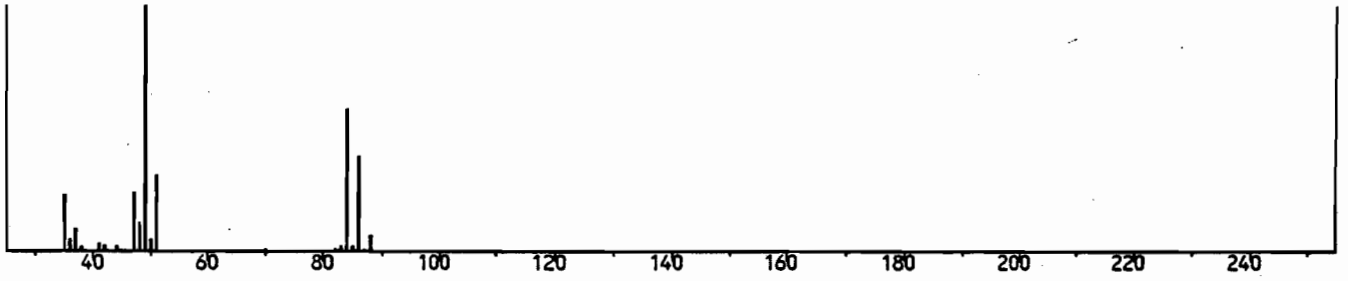
Unenhanced spectrum -- Scan # 91 Base m/z: 49 --- RIC: 11440. Max intensity: 2584



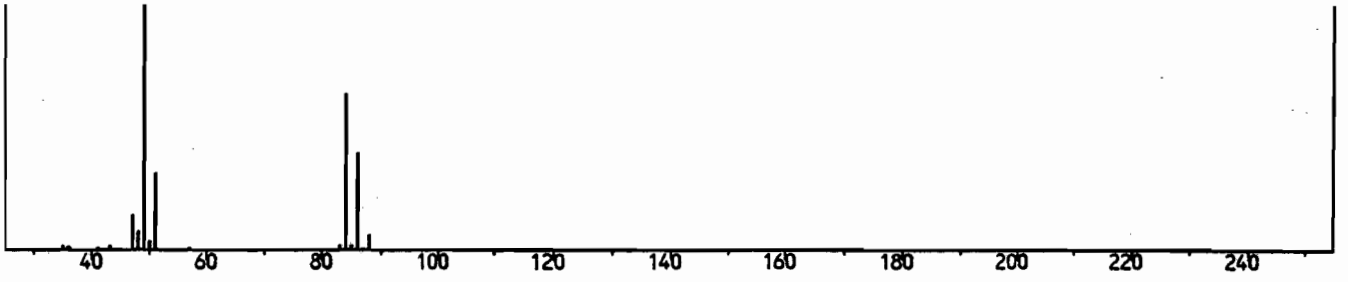
Enhanced (S 15B 2N 0T) -- Scan # 91 Base m/z: 49 --- RIC: 8320. Max intensity: 2484



Enhanced CKV050BHV -- Scan # 92 Base m/z: 49 --- RIC: 58944. Max intensity: 17856

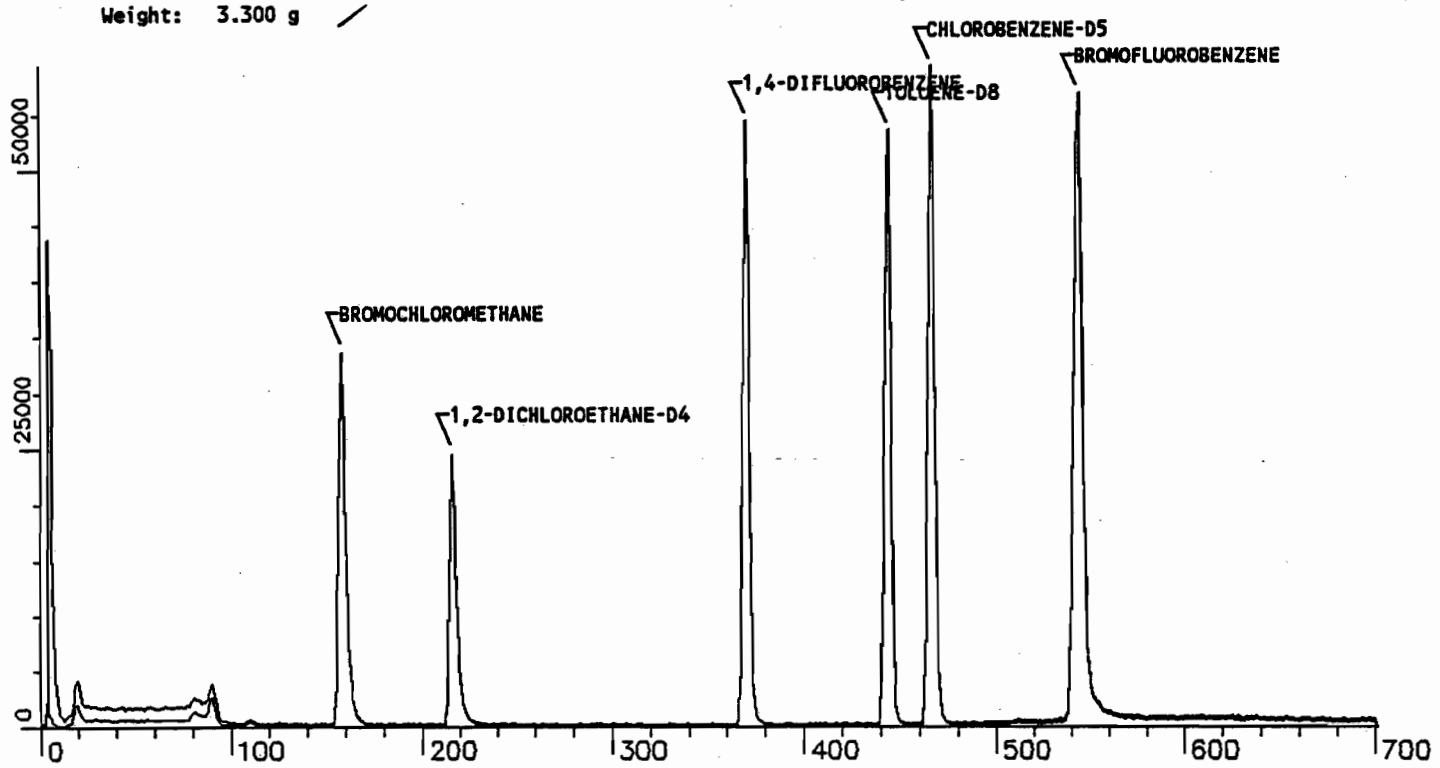


LIBRARYUM#6 CAS: 75-09-2 METHANE, DICHLORO- (CH2Cl2)



C114945V 1

Sample: L#114945 CLI#MW-12,18'20'DUP ETR#21455 3.30GRAMS
05/24/90 1333
Conditions: GC/MS OWAC
OWAC -- CMP
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114945 Client ID: MW-12,18'20'DUP ETR Number: 21455 Submitted by: ADIENV
Weight: 3.300 g



No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
1	128	158	7:54	1	1.000	A BB	16859.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	370	18:30	13	1.000	A BB	79252.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	466	23:18	36	1.000	A BB	62430.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	216	10:48	1	1.367	A BB	38852.	52.220 PPB	104.4	19	1,2-DICHLOROETHANE-D4
42	98	444	22:12	36	0.953	A BB	72630.	53.464 PPB	106.9	42	TOLUENE-D8
46	95	544	27:12	36	1.167	A BB	49915.	46.570 PPB	93.1	46	BROMOFLUOROBENZENE

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
1	8:00	6	1.000	1.00	50.00	50.00	1.000	1.000	1.00	1	BROMOCHLOROMETHANE
13	18:36	6	1.000	1.00	50.00	50.00	1.000	1.000	1.00	13	1,4-DIFLUOROBENZENE
36	23:24	6	1.000	1.00	50.00	50.00	1.000	1.000	1.00	36	CHLOROBENZENE-D5
19	10:54	6	1.362	1.00	52.22	50.00	2.305	2.207	1.04	19	1,2-DICHLOROETHANE-D4
42	22:18	6	0.953	1.00	53.46	50.00	1.163	1.088	1.07	42	TOLUENE-D8
46	27:21	9	1.169	1.00	46.57	50.00	0.800	0.858	0.93	46	BROMOFLUOROBENZENE

CKV050AHV (05/24/90 4:51) RFs loaded on OWAC 5/24/90 5:47:24

C114945V 2

Sample: L#114945 CLI#MW-12,18'20'DUP ETR#21455 3.30GRAMS 05/24/90 1333
Conditions: GC/MS OWAC OWAC -- CMP
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114945 Client ID: MW-12,18'20'DUP ETR Number: 21455 Submitted by: ADIENV
Weight: 3.300 g

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
2	NOT FOUND									2	CHLOROMETHANE
3	NOT FOUND									3	BROMOMETHANE
4	NOT FOUND									4	VINYL CHLORIDE
5	NOT FOUND									5	CHLOROETHANE
6	84	90	4:30	1	0.570	A BB	1046.	1.693 PPB		6	METHYLENE CHLORIDE
7	NOT FOUND									7	ACETONE
8	NOT FOUND									8	ACROLEIN
9	NOT FOUND									9	ACRYLONITRILE
10	76	125	6:15	1	0.791	A BB	78.	0.099 PPB		10	CARBON DISULFIDE
11	NOT FOUND									11	TRICHLOROFLUOROMETHANE
12	NOT FOUND									12	1,1-DICHLOROETHENE
14	NOT FOUND									14	1,1-DICHLOROETHANE
15	NOT FOUND									15	TETRAHYDROFURAN
16	NOT FOUND									16	1,2-DICHLOROETHENE (TOTAL)
17	NOT FOUND									17	CHLOROFORM
18	NOT FOUND									18	1,2-DICHLOROETHANE
20	NOT FOUND									20	2-BUTANONE
21	NOT FOUND									21	FREON TF
22	NOT FOUND									22	1,1,1-TRICHLOROETHANE
23	NOT FOUND									23	CARBON TETRACHLORIDE
24	NOT FOUND									24	VINYL ACETATE
25	NOT FOUND									25	BROMODICHLOROMETHANE
26	NOT FOUND									26	1,2-DICHLOROPROPANE
27	NOT FOUND									27	CIS-1,3-DICHLOROPROPENE
28	NOT FOUND									28	TRICHLOROETHENE
29	NOT FOUND									29	DIBROMOCHLOROMETHANE
30	NOT FOUND									30	METHYLCYCLOHEXANE
31	NOT FOUND									31	1,1,2-TRICHLOROETHANE
32	NOT FOUND									32	BENZENE
33	NOT FOUND									33	TRANS-1,3-DICHLOROPROPENE
34	NOT FOUND									34	2-CHLOROETHYLVINYLETHER
35	NOT FOUND									35	BROMOFORM
37	NOT FOUND									37	4-METHYL-2-PENTANONE
38	NOT FOUND									38	2-HEXANONE
39	NOT FOUND									39	1,1,2,2-TETRACHLOROETHANE
40	NOT FOUND									40	TETRACHLOROETHENE
41	NOT FOUND									41	BUTYL ACETATE
43	92	447	22:21	36	0.959	A BB	138.	0.177 PPB		43	TOLUENE
44	NOT FOUND									44	CHLOROBENZENE
45	NOT FOUND									45	ETHYLBENZENE
47	NOT FOUND									47	STYRENE
48	NOT FOUND									48	M-XYLENE
49	NOT FOUND									49	O- & P-XYLENE
50	NOT FOUND									50	O-DICHLOROBENZENE
51	NOT FOUND									51	CYCLOPENTANE
52	NOT FOUND									52	XYLENE (TOTAL)
53	NOT FOUND									53	2-PROPANOL

C114945V 3

Sample: L#114945 CLI#MW-12,18'20'DUP ETR#21455 3.30GRAMS
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114945 Client ID: MW-12,18'20'DUP ETR Number: 21455 Submitted by: ADIENV
Weight: 3.300 g

05/24/90 1333
OWAC -- CMP

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	0:57		0.119							2	CHLOROMETHANE
3	1:33		0.194							3	BROMOMETHANE
4	2:03		0.256							4	VINYL CHLORIDE
5	2:45		0.344							5	CHLOROETHANE
6	4:33	3	0.569	1.00	1.69	50.00	0.062	1.832	0.03	6	METHYLENE CHLORIDE
7	5:36		0.700							7	ACETONE
8	5:39		0.706							8	ACROLEIN
9	6:18		0.788							9	ACRYLONITRILE
10	6:15	0	0.781	1.01	0.10	50.00	0.005	2.326	0.00	10	CARBON DISULFIDE
11	6:45		0.844							11	TRICHLOROFLUOROMETHANE
12	7:36		0.950							12	1,1-DICHLOROETHENE
14	8:51		1.106							14	1,1-DICHLOROETHANE
15	9:03		1.131							15	TETRAHYDROFURAN
16	9:45		1.219							16	1,2-DICHLOROETHENE (TOTAL)
17	10:09		1.269							17	CHLOROFORM
18	11:00		1.375							18	1,2-DICHLOROETHANE
20	11:15		1.406							20	2-BUTANONE
21	10:30		0.565							21	FREON TF
22	12:09		0.653							22	1,1,1-TRICHLOROETHANE
23	12:30		0.672							23	CARBON TETRACHLORIDE
24	13:06		0.704							24	VINYL ACETATE
25	13:09		0.707							25	BROMODICHLOROMETHANE
26	14:33		0.782							26	1,2-DICHLOROPROPANE
27	14:54		0.801							27	CIS-1,3-DICHLOROPROPENE
28	15:30		0.833							28	TRICHLOROETHENE
29	15:51		0.852							29	DIBROMOCHLOROMETHANE
30	18:18		0.984							30	METHYLCYCLOHEXANE
31	16:03		0.863							31	1,1,2-TRICHLOROETHANE
32	16:03		0.863							32	BENZENE
33	16:09		0.868							33	TRANS-1,3-DICHLOROPROPENE
34	17:18		0.930							34	2-CHLOROETHYLVINYLETHER
35	18:30		0.995							35	BROMOFORM
37	19:15		0.823							37	4-METHYL-2-PENTANONE
38	20:51		0.891							38	2-HEXANONE
39	20:48		0.889							39	1,1,2,2-TETRACHLOROETHANE
40	21:03		0.900							40	TETRACHLOROETHENE
41	21:57		0.938							41	BUTYL ACETATE
43	22:30	9	0.962	1.00	0.18	50.00	0.002	0.625	0.00	43	TOLUENE
44	23:33		1.006							44	CHLOROBENZENE
45	25:21		1.083							45	ETHYLBENZENE
47	28:36		1.222							47	STYRENE
48	28:51		1.233							48	M-XYLENE
49	29:33		1.263							49	O- & P-XYLENE
50	32:51		1.404							50	O-DICHLOROBENZENE
51	8:03		1.006							51	CYCLOPENTANE
52	28:51		1.233							52	XYLENE (TOTAL)
53	7:03		0.881							53	2-PROPANOL

C114945V12

Sample: L#114945 CLI#MW-12,18'20'DUP ETR#21455 3.30GRAMS
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114945 Client ID: MW-12,18'20'DUP ETR Number: 21455 Submitted by: ADIENV
Weight: 3.300 g

05/24/90 1333
OWAC -- CMP

Summary of Tentatively Identified Compounds

Rank	Scan	Dec. Time	En.RIC Height	Est. Amount	Ref	Name
ISTD	158	7.90	28352.	50.0	1	BROMOCHLOROMETHANE
ISTD	370	18.50	37568.	50.0	13	1,4-DIFLUOROBENZENE
ISTD	466	23.30	45263.	50.0	36	CHLOROBENZENE-D5

ØTICS for reporting?
Cip

PROCEDURE: TCA DIAGNOSTIC REPORT 5/24/90 14:08:03
DATA FILE: C114945V
REFERENCE: JTAR11
NAME LIST: UM INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: UMRET1

STANDARDS PROD	STANDARDS USED	STANDARDS POSS	STANDARDS RMS	PLUS UNKNOWNS PROD	PLUS UNKNOWNS USED	PLUS UNKNOWNS POSS	PLUS UNKNOWNS RMS	LIST NAMES STANDARD/UNKNOWN
1	1	1	0	[illegible]	[illegible]	1	202	UMRET1/UMUNK1
2	2	1	0	[illegible]	[illegible]	1	57	UMRET2/UMUNK2
2	2	1	0	[illegible]	[illegible]	1	0	UMRET2/UMUNK3
2	1	1	0	[illegible]	[illegible]	1	78	UMRET3/UMUNK4
1	1	1	0	[illegible]	[illegible]	1	0	UMRET4/UMUNK5

52 COMPOUNDS PROCESSED, 7 FOUND

COMPOUND NO	LIB	ENTRY	REF	PRED	SEARCH SEL	SEARCH DELTA	SEARCH PEAKS	SAT FIT	SAT PEAKS	CHRO M/Z	CHRO TOP	CHRO DELTA	CHRO PEAKS
1	UM	1	-158	158	158	.	1	979	.	128	158	.	1
2	UM	2	-18	21	.	.	.	.	.	50	.	.	.
3	UM	3	-30	33	.	.	.	.	.	94	.	.	.
4	UM	4	-40	43	.	.	.	.	.	62	.	.	.
5	UM	5	-55	57	.	.	.	.	.	64	.	.	.
6	UM	6	-89	91	90	-1	1	990	.	84	90	.	1
7	UM	7	-113	114	.	.	.	.	.	43	.	.	.
8	UM	8	-112	114	.	.	.	.	.	56	.	.	.
9	UM	9	-125	126	.	.	.	.	.	53	.	.	.
10	UM	10	-122	123	125	2	1	1000	.	76	125	.	1
11	UM	11	-134	135	.	.	.	.	.	101	.	.	.
12	UM	12	-151	152	.	.	.	.	.	96	.	.	.
13	UM	53	-144	145	.	.	.	.	.	45	.	.	.
14	UM	13	-371	370	370	.	1	997	.	114	370	.	1
15	UM	51	-160	160	.	.	.	.	.	55	.	.	.
16	UM	14	-176	176	.	.	.	.	.	63	.	.	.
17	UM	15	-180	180	.	.	.	.	.	71	.	.	.
18	UM	16	-193	193	.	.	.	.	.	96	.	.	.
19	UM	17	-202	202	.	.	.	.	.	83	.	.	.
20	UM	18	-219	218	.	.	.	.	.	62	.	.	.
21	UM	19	-217	216	216	.	1	997	.	65	216	.	1
22	UM	20	-224	223	.	.	.	.	.	72	.	.	.
23	UM	21	-210	209	.	.	.	.	.	101	.	.	.
24	UM	22	-242	241	.	.	.	.	.	97	.	.	.
25	UM	23	-250	249	.	.	.	.	.	117	.	.	.
26	UM	24	-262	261	.	.	.	.	.	43	.	.	.
27	UM	25	-262	262	.	.	.	.	.	83	.	.	.
28	UM	26	-291	290	.	.	.	.	.	63	.	.	.
29	UM	27	-297	296	.	.	.	.	.	75	.	.	.
30	UM	28	-309	308	.	.	.	.	.	130	.	.	.
31	UM	29	-316	315	.	.	.	.	.	129	.	.	.
32	UM	30	-365	364	.	.	.	.	.	98	.	.	.
33	UM	31	-320	319	.	.	.	.	.	97	.	.	.
34	UM	32	-320	319	.	.	.	.	.	78	.	.	.
35	UM	33	-322	321	.	.	.	.	.	75	.	.	.
36	UM	34	-345	344	.	.	.	.	.	63	.	.	.
37	UM	35	-369	368	.	.	.	.	.	173	.	.	.
38	UM	36	-467	466	.	.	.	.	.	117	466	.	1
39	UM	37	-384	383	.	.	.	.	.	43	.	.	.
40	UM	38	-416	415	.	.	.	.	.	43	.	.	.
41	UM	39	-415	414	.	.	.	.	.	83	.	.	.
42	UM	40	-421	420	.	.	.	.	.	164	.	.	.
43	UM	41	-438	437	.	.	.	.	.	56	.	.	.
44	UM	42	-444	443	444	1	1	995	.	98	444	.	1
45	UM	43	-448	447	.	.	.	.	.	92	447	.	1
46	UM	44	-469	468	.	.	.	.	.	112	.	.	.
47	UM	45	-506	505	.	.	.	.	.	106	.	.	.
48	UM	46	-545	544	544	.	1	994	.	95	544	.	1
49	UM	47	-569	568	.	.	.	.	.	104	.	.	.
50	UM	48	-575	574	.	.	.	.	.	106	.	.	.
51	UM	49	-589	588	.	.	.	.	.	106	.	.	.
52	UM	50	-653	652	.	.	.	.	.	146	.	.	.

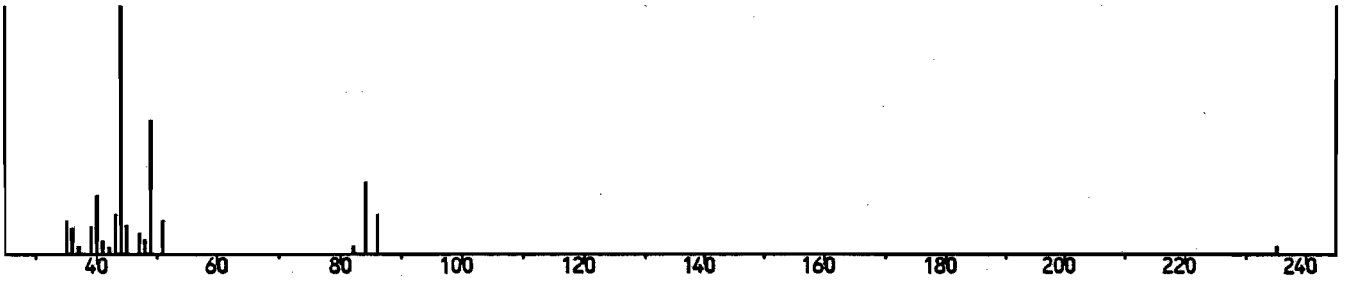
C114945V 6

Sample: L#114945 CLI#MW-12,18'20'DUP ETR#21455 3.30GRAMS
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114945 Client ID: MW-12,18'20'DUP ETR Number: 21455 Submitted by: ADIENV
Weight: 3.300 g

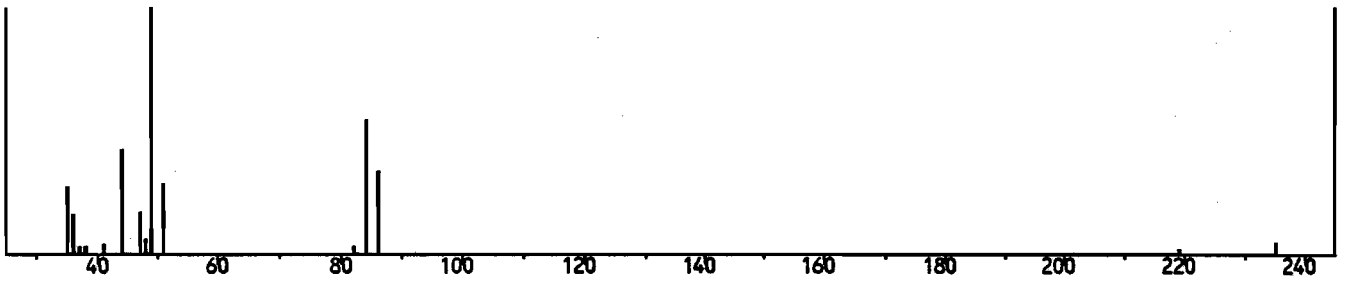
05/24/90 1333
OWAC -- CMP

LIBRARYUM#6 METHYLENE CHLORIDE

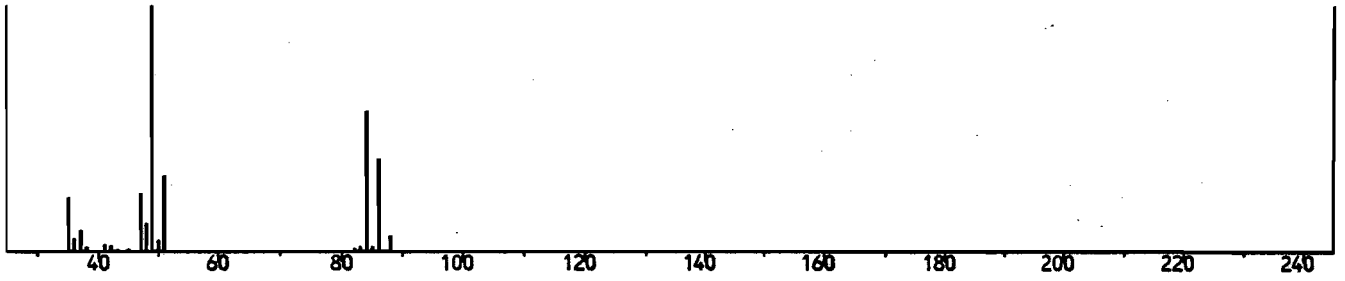
Unenhanced spectrum -- Scan # 90 Base m/z: 44 --- RIC: 3920. Max intensity: 1196



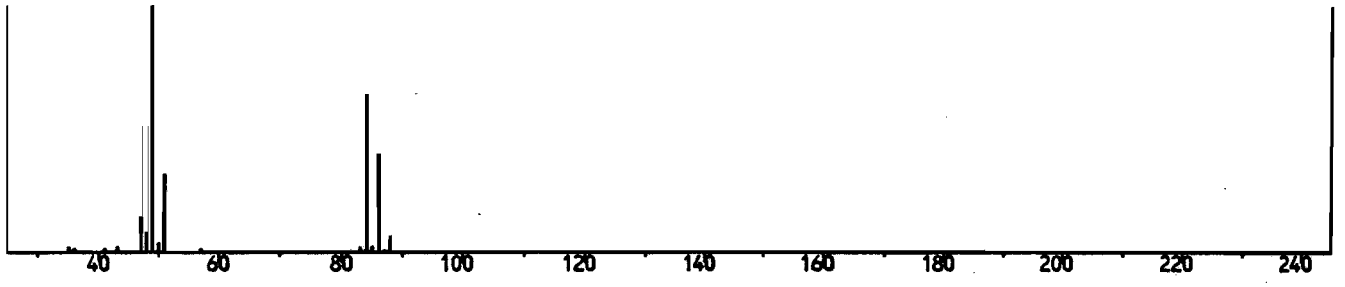
Enhanced (S 15B 2N OT) -- Scan # 90 Base m/z: 49 --- RIC: 2014. Max intensity: 587



Enhanced CKV050AHV -- Scan # 91 Base m/z: 49 --- RIC: 57152. Max intensity: 17760



LIBRARYUM#6 CAS: 75-09-2 METHANE, DICHLORO- (CH2Cl2)



VOLATILE ORGANIC ANALYSIS

STANDARDS DATA PACKAGE

aquatec
ENVIRONMENTAL SERVICES
75 Green Mountain Drive, So. Burlington, VT 05403
TEL. 802/658-1074

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name:AQUATEC, INC. Contract:90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Instrument ID: OWAC Calibration Date(s): 05/15/90 05/15/90

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) PACK

Min $\overline{RRF}$ for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 =CKQ020HV RRF50 =CKQ050HV
RRF100=CKQ100HV RRF150=CKQ150HV RRF200=CKQ200HV

COMPOUND	RRF20	RRF50	RRF100	RRF150	RRF200	$\overline{RRF}$	% RSD
Chloromethane	#1.346	1.286	1.321	1.413	1.527	1.379	6.9#
Bromomethane	1.261	1.220	1.227	1.359	1.379	1.289	5.8
Vinyl Chloride	*1.202	1.192	1.245	1.357	1.280	1.255	5.3*
Chloroethane	.792	.758	.784	.799	.810	.789	2.5
Methylene Chloride	2.396	1.744	1.729	1.637	1.616	1.824	17.8
Acetone	1.266	.764	.731	.766	.629	.831	30.0
Carbon Disulfide	3.459	4.035	4.368	4.490	4.698	4.210	11.5
1,1-Dichloroethene	*1.114	1.257	1.331	1.408	1.407	1.303	9.4*
1,1-Dichloroethane	#2.701	2.840	2.898	2.955	2.986	2.876	3.9#
1,2-Dichloroethene (total)	1.431	1.631	1.640	1.651	1.649	1.600	5.9
Chloroform	*3.280	3.470	3.572	3.583	3.669	3.515	4.2*
1,2-Dichloroethane	2.523	2.611	2.591	2.717	2.793	2.647	4.1
2-Butanone	.218	.205	.190	.196	.173	.196	8.5
1,1,1-Trichloroethane	.427	.517	.528	.571	.533	.515	10.3
Carbon Tetrachloride	.421	.515	.537	.591	.563	.525	12.4
Vinyl Acetate	.486	.570	.599	.702	.665	.604	13.9
Bromodichloromethane	.596	.677	.708	.758	.741	.696	9.2
1,2-Dichloropropane	* .376	.411	.405	.437	.419	.410	5.5*
cis-1,3-Dichloropropene	.444	.543	.564	.616	.593	.552	12.0
Trichloroethene	.399	.454	.458	.483	.460	.451	6.9
Dibromochloromethane	.474	.576	.601	.653	.641	.589	12.1
1,1,2-Trichloroethane	.393	.415	.408	.436	.415	.413	3.7
Benzene	.955	1.038	1.041	1.086	1.055	1.035	4.7
trans-1,3-Dichloropropene	.384	.456	.499	.554	.552	.489	14.6
Bromoform	# .380	.455	.469	.522	.498	.465	11.6#
4-Methyl-2-Pentanone	.747	.731	.688	.788	.735	.738	4.8
2-Hexanone	.648	.617	.602	.694	.635	.639	5.5
Tetrachloroethene	.465	.520	.508	.506	.499	.500	4.1
1,1,2,2-Tetrachloroethane	# .982	.997	.955	1.039	.985	.991	3.1#
Toluene	* .732	.774	.749	.770	.741	.753	2.4*
Chlorobenzene	#1.008	1.074	1.031	1.055	1.018	1.037	2.6#
Ethylbenzene	* .448	.472	.455	.463	.449	.457	2.3*
Styrene	.882	.946	.927	.948	.917	.924	2.9
Xylene (total)	.571	.599	.585	.583	.569	.582	2.1
Toluene-d8	1.113	1.127	1.098	1.129	1.145	1.122	1.6
Bromofluorobenzene	.813	.787	.760	.786	.785	.786	2.4
1,2-Dichloroethane-d4	2.383	2.407	2.458	2.578	2.618	2.489	4.2

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name:AQUATEC, INC. Contract:90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Instrument ID: OWAC Calibration Date(s): 05/21/90 05/21/90

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) PACK

Min $\overline{RRF}$ for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 =CKT020HV RRF50 =CKQ050LHV
RRF100=CKT100HV RRF150=CKT150HV RRF200=CKT200HI2V

COMPOUND	RRF20	RRF50	RRF100	RRF150	RRF200	$\overline{RRF}$	% RSD
Chloromethane	# .887	1.044	.819	.828	.766	.869	12.3#
Bromomethane	1.106	.854	.926	.910	.907	.941	10.3
Vinyl Chloride	* .819	.891	.838	.852	.759	.832	5.9*
Chloroethane	.673	.676	.580	.580	.580	.618	8.4
Methylene Chloride	1.336	1.244	1.121	1.121	1.175	1.199	7.7
Acetone	.525	.306	.322	.279	.318	.350	28.4
Carbon Disulfide	2.555	2.907	2.911	2.972	3.108	2.891	7.1
1,1-Dichloroethene	* .908	.976	.931	.932	.945	.938	2.6*
1,1-Dichloroethane	#2.163	2.208	2.077	2.120	2.312	2.176	4.2#
1,2-Dichloroethene (total)	1.149	1.255	1.189	1.195	1.269	1.212	4.1
Chloroform	*2.622	2.729	2.600	2.654	2.906	2.702	4.6*
1,2-Dichloroethane	1.891	1.890	1.790	1.852	2.045	1.894	5.0
2-Butanone	.102	.121	.113	.098	.124	.112	10.1
1,1,1-Trichloroethane	.435	.467	.477	.489	.520	.478	6.5
Carbon Tetrachloride	.434	.481	.503	.510	.540	.494	8.0
Vinyl Acetate	.450	.489	.521	.535	.652	.529	14.4
Bromodichloromethane	.514	.577	.596	.598	.700	.597	11.2
1,2-Dichloropropane	* .360	.345	.339	.344	.383	.354	5.1*
cis-1,3-Dichloropropene	.422	.485	.476	.501	.562	.489	10.3
Trichloroethene	.424	.438	.420	.428	.463	.434	4.0
Dibromochloromethane	.502	.542	.593	.604	.690	.586	12.2
1,1,2-Trichloroethane	.337	.357	.348	.365	.415	.364	8.3
Benzene	.846	.896	.862	.889	.995	.898	6.5
trans-1,3-Dichloropropene	.373	.414	.425	.463	.525	.440	13.0
Bromoform	# .333	.345	.400	.410	.479	.393	14.9#
4-Methyl-2-Pentanone	.538	.538	.531	.530	.630	.553	7.8
2-Hexanone	.439	.401	.454	.445	.521	.452	9.6
Tetrachloroethene	.488	.515	.479	.467	.465	.483	4.2
1,1,2,2-Tetrachloroethane	# .886	.530	.623	.636	.720	.679	19.7#
Toluene	* .684	.722	.687	.693	.728	.703	2.9*
Chlorobenzene	# .968	.994	.957	.948	1.022	.978	3.1#
Ethylbenzene	* .375	.351	.370	.371	.398	.373	4.5*
Styrene	.797	.695	.734	.738	.802	.753	6.0
Xylene (total)	.523	.449	.464	.464	.491	.478	6.1
Toluene-d8	1.043	1.047	.998	1.068	1.108	1.053	3.8
Bromofluorobenzene	.745	.583	.588	.617	.652	.637	10.4
1,2-Dichloroethane-d4	1.909	1.734	1.753	1.842	2.030	1.854	6.5

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name:AQUATEC, INC. Contract:90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Instrument ID: OWAC Calibration Date(s): 05/23/90 05/24/90

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) PACK

Min $\overline{RRF}$ for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 =CKV020HV RRF50 =CKV050HV
RRF100=CKV100HV RRF150=CKV150HV RRF200=CKV200HI2V

COMPOUND	RRF20	RRF50	RRF100	RRF150	RRF200	$\overline{RRF}$	% RSD
Chloromethane	#1.137	1.056	1.001	.955	.814	.993	12.2#
Bromomethane	1.599	1.456	1.442	1.295	1.191	1.397	11.3
Vinyl Chloride	*1.289	1.239	1.232	1.209	1.027	1.199	8.4*
Chloroethane	.847	.757	.766	.729	.647	.749	9.6
Methylene Chloride	2.335	2.008	1.882	1.800	1.662	1.937	13.2
Acetone	.683	.494	.456	.404	.370	.481	25.5
Carbon Disulfide	2.278	2.475	2.602	2.614	2.561	2.506	5.5
1,1-Dichloroethene	* .841	.860	.893	.884	.847	.865	2.6*
1,1-Dichloroethane	#2.342	2.383	2.344	2.298	2.312	2.336	1.4#
1,2-Dichloroethene (total)	1.084	1.114	1.148	1.129	1.120	1.119	2.1
Chloroform	*2.872	2.901	2.894	2.862	2.886	2.883	.6*
1,2-Dichloroethane	2.351	2.336	2.311	2.296	2.303	2.320	1.0
2-Butanone	.087	.104	.125	.116	.112	.109	13.2
1,1,1-Trichloroethane	.488	.501	.509	.521	.489	.501	2.8
Carbon Tetrachloride	.483	.511	.600	.549	.517	.532	8.4
Vinyl Acetate	.549	.553	.556	.585	.596	.568	3.8
Bromodichloromethane	.525	.552	.577	.591	.593	.567	5.1
1,2-Dichloropropane	* .356	.355	.349	.348	.353	.352	1.0*
cis-1,3-Dichloropropene	.411	.428	.443	.447	.453	.436	3.9
Trichloroethene	.411	.399	.403	.408	.398	.404	1.5
Dibromochloromethane	.485	.540	.569	.606	.614	.563	9.4
1,1,2-Trichloroethane	.338	.342	.343	.359	.371	.351	4.0
Benzene	.810	.795	.810	.832	.864	.822	3.3
trans-1,3-Dichloropropene	.379	.409	.421	.460	.476	.429	9.1
Bromoform	# .392	.434	.445	.477	.473	.444	7.8#
4-Methyl-2-Pentanone	.793	.679	.638	.641	.637	.678	9.9
2-Hexanone	.698	.558	.539	.546	.554	.579	11.5
Tetrachloroethene	.568	.523	.529	.525	.499	.529	4.7
1,1,2,2-Tetrachloroethane	# .887	.827	.803	.824	.839	.836	3.8#
Toluene	* .683	.643	.643	.655	.657	.656	2.5*
Chlorobenzene	#1.091	.987	.967	.970	.969	.997	5.3#
Ethylbenzene	* .460	.427	.426	.432	.425	.434	3.4*
Styrene	.967	.884	.857	.873	.864	.889	5.0
Xylene (total)	.616	.570	.560	.569	.559	.575	4.1
Toluene-d8	1.128	1.049	1.065	1.092	1.102	1.087	2.9
Bromofluorobenzene	1.005	.859	.834	.847	.845	.878	8.2
1,2-Dichloroethane-d4	2.169	2.214	2.203	2.200	2.235	2.204	1.1

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name:AQUATEC, INC. Contract:90000

Lab Code: AQUAI Case No.: 21422 SAS No.: _____ SDG No.: 11481

Instrument ID: OWAC Calibration Date(s): 05/29/90 05/29/90

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) PACK

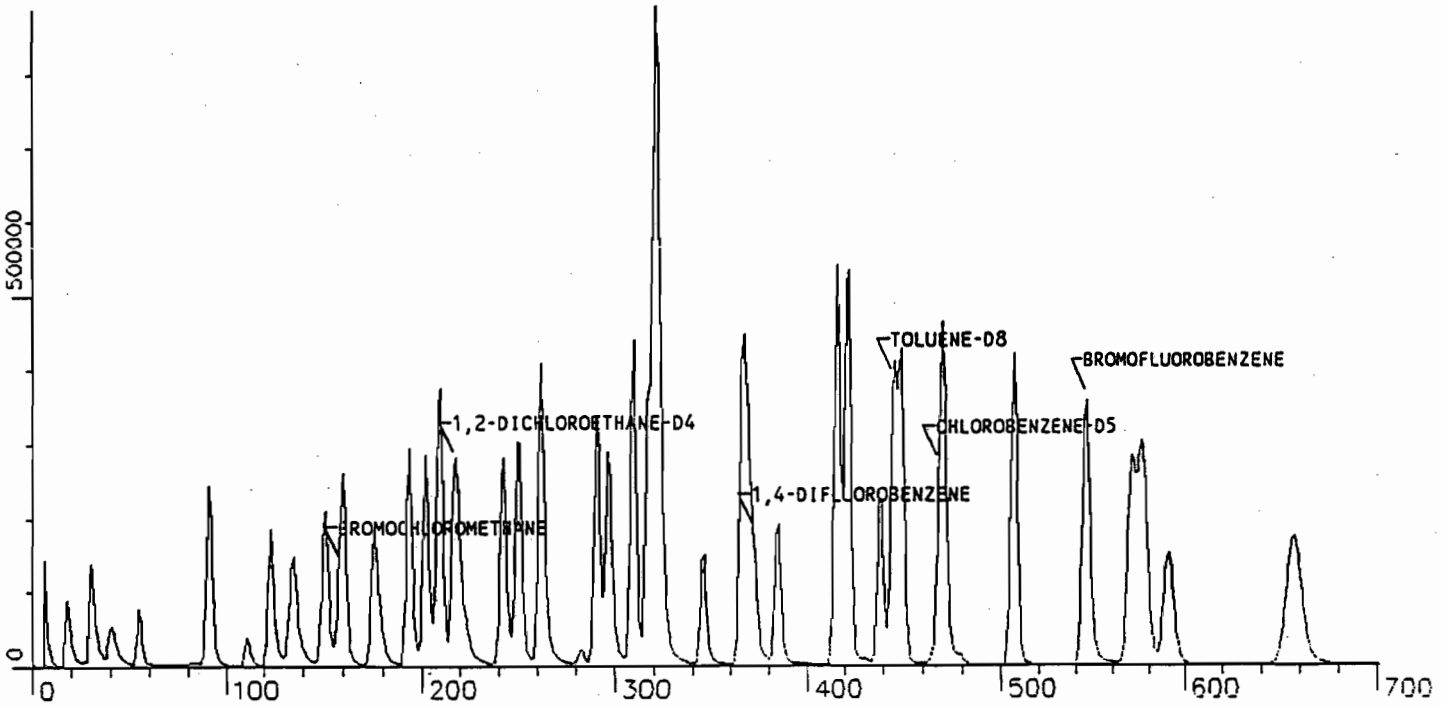
Min $\overline{RRF}$ for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 =CKW020HV RRF50 =CKV050FHV
RRF100=CKW100HV RRF150=CKW150HV RRF200=CKW200HV

COMPOUND	RRF20	RRF50	RRF100	RRF150	RRF200	$\overline{RRF}$	% RSD
Chloromethane	#1.330	1.259	1.473	1.179	1.142	1.276	10.3#
Bromomethane	1.855	1.752	1.862	1.771	1.347	1.717	12.4
Vinyl Chloride	*1.617	1.458	1.697	1.615	1.420	1.561	7.5*
Chloroethane	.968	.887	1.018	.965	.830	.934	8.0
Methylene Chloride	2.247	2.059	2.115	1.864	1.776	2.012	9.5
Acetone	.454	.313	.264	.253	.184	.294	34.3
Carbon Disulfide	9.543	9.447	11.24	9.482	10.08	9.960	7.7
1,1-Dichloroethene	*1.100	1.081	1.092	1.048	1.017	1.068	3.2*
1,1-Dichloroethane	#2.398	2.374	2.408	2.295	2.205	2.336	3.7#
1,2-Dichloroethene (total)	1.395	1.332	1.394	1.272	1.292	1.337	4.2
Chloroform	*2.797	2.761	2.950	2.657	2.659	2.765	4.4*
1,2-Dichloroethane	2.079	2.036	2.161	2.030	1.957	2.053	3.6
2-Butanone	.137	.100	.107	.078	.073	.099	25.9
1,1,1-Trichloroethane	.526	.505	.554	.532	.521	.528	3.4
Carbon Tetrachloride	.525	.522	.589	.579	.635	.570	8.3
Vinyl Acetate	.676	.618	.699	.645	.687	.665	5.0
Bromodichloromethane	.564	.562	.614	.586	.600	.585	3.9
1,2-Dichloropropane	* .395	.380	.376	.386	.376	.383	2.1*
cis-1,3-Dichloropropene	.479	.452	.512	.522	.496	.492	5.6
Trichloroethene	.474	.455	.475	.463	.451	.464	2.3
Dibromochloromethane	.561	.540	.634	.645	.629	.602	7.9
1,1,2-Trichloroethane	.414	.388	.403	.398	.391	.399	2.5
Benzene	.940	.920	.983	.955	.963	.952	2.5
trans-1,3-Dichloropropene	.409	.402	.483	.490	.493	.455	10.0
Bromoform	# .485	.412	.500	.533	.484	.483	9.2#
4-Methyl-2-Pentanone	.853	.631	.692	.615	.605	.679	15.1
2-Hexanone	.713	.480	.617	.568	.502	.576	16.3
Tetrachloroethene	.575	.540	.563	.554	.523	.551	3.7
1,1,2,2-Tetrachloroethane	#1.079	.869	.951	.918	.878	.939	9.0#
Toluene	* .774	.736	.780	.752	.714	.751	3.7*
Chlorobenzene	#1.179	1.071	1.116	1.066	1.012	1.089	5.7#
Ethylbenzene	* .514	.467	.491	.473	.447	.478	5.3*
Styrene	1.052	.916	.980	.933	.892	.955	6.6
Xylene (total)	.668	.914	.615	.596	.569	.672	20.8
Toluene-d8	1.279	1.151	1.202	1.183	1.008	1.165	8.5
Bromofluorobenzene	.956	.796	.838	.816	.677	.816	12.2
1,2-Dichloroethane-d4	2.002	1.864	2.034	1.878	1.666	1.889	7.7

CKQ200HV 1
05/15/90 1258
OWAC -- SPS

Sample: VSTD200 CRV#CKQ
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKQ Submitted by: AQUTEC
Volume: 5.000 ml



No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
1	128	158	7:54	1	1.000	A BB	23770.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	372	18:36	13	1.000	A BB	122195.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	468	23:24	36	1.000	A BB	102966.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	217	10:51	1	1.373	A BB	248906.	200.000 PPB	400.0	19	1,2-DICHLOROETHANE-D4
42	98	445	22:15	36	0.951	A BB	471445.	200.000 PPB	400.0	42	TOLUENE-D8
46	95	546	27:18	36	1.167	A BV	323394.	200.000 PPB	400.0	46	BROMOFLUOROBENZENE

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
1	7:54	0	1.000	1.00	50.00	50.00	1.000	1.000	1.00	1	BROMOCHLOROMETHANE
13	18:36	0	1.000	1.00	50.00	50.00	1.000	1.000	1.00	13	1,4-DIFLUOROBENZENE
36	23:24	0	1.000	1.00	50.00	50.00	1.000	1.000	1.00	36	CHLOROBENZENE-D5
19	10:51	0	1.373	1.00	200.00	200.00	2.618	2.618	1.00	19	1,2-DICHLOROETHANE-D4
42	22:15	0	0.951	1.00	200.00	200.00	1.145	1.145	1.00	42	TOLUENE-D8
46	27:18	0	1.167	1.00	200.00	200.00	0.785	0.785	1.00	46	BROMOFLUOROBENZENE

CKQ200HV (05/15/90 12:58) RFs loaded on OWAC 5/16/90 8:12:24

CKQ200HV 2

05/15/90 1258
OWAC -- SPS

Sample: VSTD200 CRV#CKQ
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKQ Submitted by: AQUTEC
Volume: 5.000 ml

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
2	50	18	0:54	1	0.114	A BB	159676.	220.000 PPB		2	CHLOROMETHANE
3	94	30	1:30	1	0.190	A BB	144254.	220.000 PPB		3	BROMOMETHANE
4	62	41	2:03	1	0.259	A BV	121658.	200.000 PPB		4	VINYL CHLORIDE
5	64	55	2:45	1	0.348	A VB	84722.	220.000 PPB		5	CHLOROETHANE
6	84	91	4:33	1	0.576	A BB	153668.	200.000 PPB		6	METHYLENE CHLORIDE
7	43	111	5:33	1	0.703	A BV	59795.	200.000 PPB		7	ACETONE
8	56	111	5:33	1	0.703	A BB	21718.	200.000 PPB		8	ACROLEIN
9	53	124	6:12	1	0.785	A BB	46434.	200.000 PPB		9	ACRYLONITRILE
10	76	123	6:09	1	0.778	A BB	446673.	200.000 PPB		10	CARBON DISULFIDE
11	101	135	6:45	1	0.854	A BV	255798.	200.000 PPB		11	TRICHLOROFLUOROMETHANE
12	96	151	7:33	1	0.956	A BB	133795.	200.000 PPB		12	1,1-DICHLOROETHENE
14	63	176	8:48	1	1.114	A BV	283912.	200.000 PPB		14	1,1-DICHLOROETHANE
15	71	179	8:57	1	1.133	A BB	18746.	200.000 PPB		15	TETRAHYDROFURAN
16	96	193	9:39	1	1.222	A BV	156822.	200.000 PPB		16	1,2-DICHLOROETHENE (TOTAL)
17	83	202	10:06	1	1.278	A BB	348888.	200.000 PPB		17	CHLOROFORM
18	62	219	10:57	1	1.386	A BB	265597.	200.000 PPB		18	1,2-DICHLOROETHANE
20	72	224	11:12	1	1.418	A BB	16434.	200.000 PPB		20	2-BUTANONE
21	101	210	10:30	13	0.565	A BB	284326.	200.000 PPB		21	FREON TF
22	97	243	12:09	13	0.653	A BB	260452.	200.000 PPB		22	1,1,1-TRICHLOROETHANE
23	117	250	12:30	13	0.672	A VB	275295.	200.000 PPB		23	CARBON TETRACHLORIDE
24	43	262	13:06	13	0.704	A BB	325084.	200.000 PPB		24	VINYL ACETATE
25	83	262	13:06	13	0.704	A BB	362006.	200.000 PPB		25	BROMODICHLOROMETHANE
26	63	291	14:33	13	0.782	A BV	204891.	200.000 PPB		26	1,2-DICHLOROPROPANE
27	75	297	14:51	13	0.798	A BB	289903.	200.000 PPB		27	CIS-1,3-DICHLOROPROPENE
28	130	310	15:30	13	0.833	A BB	224879.	200.000 PPB		28	TRICHLOROETHENE
29	129	317	15:51	13	0.852	A BV	313367.	200.000 PPB		29	DIBROMOCHLOROMETHANE
30	98	366	18:18	13	0.984	A BB	115899.	200.000 PPB		30	METHYLCYCLOHEXANE
31	97	321	16:03	13	0.863	A VB	202767.	200.000 PPB		31	1,1,2-TRICHLOROETHANE
32	78	321	16:03	13	0.863	A BB	515498.	200.000 PPB		32	BENZENE
33	75	323	16:09	13	0.868	A BB	269811.	200.000 PPB		33	TRANS-1,3-DICHLOROPROPENE
34	63	346	17:18	13	0.930	A BB	109620.	200.000 PPB		34	2-CHLOROETHYLVINYLETHER
35	173	369	18:27	13	0.992	A BB	243289.	200.000 PPB		35	BROMOFORM
37	43	385	19:15	36	0.823	A BB	302565.	200.000 PPB		37	4-METHYL-2-PENTANONE
38	43	416	20:48	36	0.889	A BB	261381.	200.000 PPB		38	2-HEXANONE
39	83	416	20:48	36	0.889	A BB	405546.	200.000 PPB		39	1,1,2,2-TETRACHLOROETHANE
40	164	421	21:03	36	0.900	A BB	205637.	200.000 PPB		40	TETRACHLOROETHENE
41	56	438	21:54	36	0.936	A BB	144832.	200.000 PPB		41	BUTYL ACETATE
43	92	449	22:27	36	0.959	A BB	305317.	200.000 PPB		43	TOLUENE
44	112	470	23:30	36	1.004	A BB	419349.	200.000 PPB		44	CHLOROBENZENE
45	106	507	25:21	36	1.083	A BB	184767.	200.000 PPB		45	ETHYLBENZENE
47	104	571	28:33	36	1.220	A BV	377555.	200.000 PPB		47	STYRENE
48	106	577	28:51	36	1.233	A BV	234545.	200.000 PPB		48	M-XYLENE
49	106	591	29:33	36	1.263	A VB	129363.	120.000 PPB		49	O- & P-XYLENE
50	146	657	32:51	36	1.404	A BB	325025.	200.000 PPB		50	O-DICHLOROBENZENE
51	55	160	8:00	1	1.013	A BB	118612.	200.000 PPB		51	CYCLOPENTANE
52	106	577	28:51	36	1.233	A BV	234545.	200.000 PPB		52	XYLENE (TOTAL)
53	45	140	7:00	1	0.886	A BB	5583.	200.000 PPB		53	2-PROPANOL