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. 802/658-1074

NARRATIVE

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

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 McKeen

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

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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

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Aquatec Project No. 90000

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

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4 SERVICES (Check only one box)

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11	[X] YOUR PACKAGING	51	[ ]
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3	[ ]	DELIVER SATURDAY (Extra charge) (Not available to all locations)
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9	[ ]	SATURDAY PICK-UP (Extra charge)
10	[ ]	
11	[ ]	DESCRIPTION
12	[ ]	HOLIDAY DELIVERY (If offered) (Extra charge)

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	1			
Total	Total	Total		

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Date/Time Received / FedEx Employee Number

5 Release Signature: ____
Date/Time

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Total Charges

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

014

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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: 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

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: 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

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

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

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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

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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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

1E

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
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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
1.					
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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
1.					
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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
1.					
2.					
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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
1.					
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3.					
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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.					
2.					
3.					
4.					
5.					
6.					
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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

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) 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

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: 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. 802/656-1074

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
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	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									
13									
14									
15									
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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

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: _____

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.: MW-10 20'-22 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	89	0	115	129		59-172
Trichloroethene	89	0	86	97		62-137
Benzene	89	0	84	95		66-142
Toluene	89	0	96	109		59-139
Chlorobenzene	89	0	89	100		60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	#	% RPD	#	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	89	135	152		16		22	59-172
Trichloroethene	89	103	116		18		24	62-137
Benzene	89	103	116		20		21	66-142
Toluene	89	104	118		8		21	59-139
Chlorobenzene	89	100	113		12		21	60-133

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

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 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				
13				
14				
15				
16				
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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				
10				
11				
12				
13				
14				
15				
16				
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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: CKTB001BV Lab Sample ID: CKTB001BV

Date Analyzed: 05/22/90 Time Analyzed: 0827

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 10'-12	114816	C114816V	0957
02	MW-10 5.5'-7	114817	C114817V	1113
03	6,-4 05/15/9	114819	C114819V	1209
04	MW-11 5.5'-7	114821	C114821V	1431
05	MW-10 20'-22	114818	C114818V	1546
06	MW-10 20'-22	114818MS	C114818MSV	1651
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: 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				
11				
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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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26				
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28				
29				
30				

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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30				

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				
12				
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29				
30				

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					
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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					
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: 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					
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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					
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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					
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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					
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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					
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22					

VOLATILE ORGANIC ANALYSIS

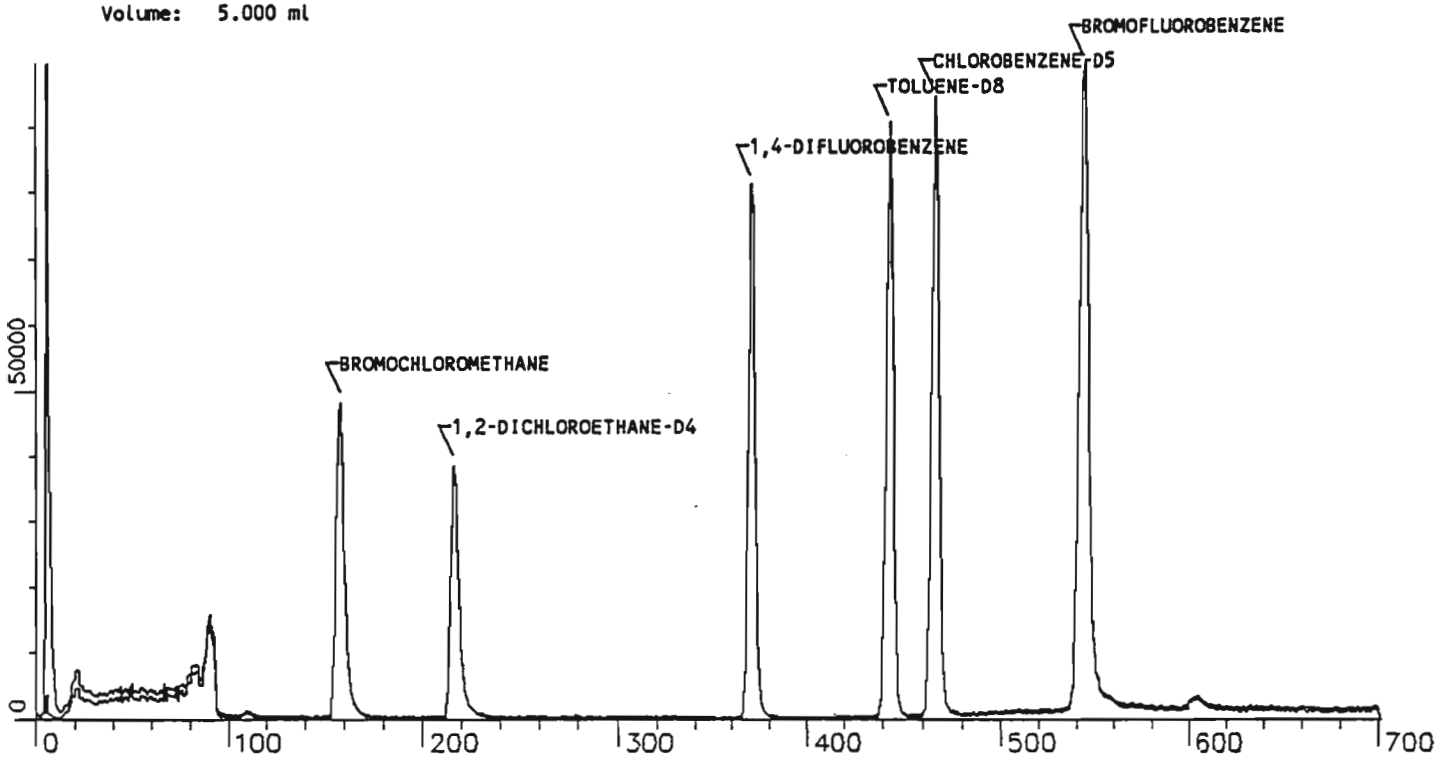
SUPPORTIVE DOCUMENTATION

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

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					
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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					
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09					
10					
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12					
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19					
20					
21					
22					

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

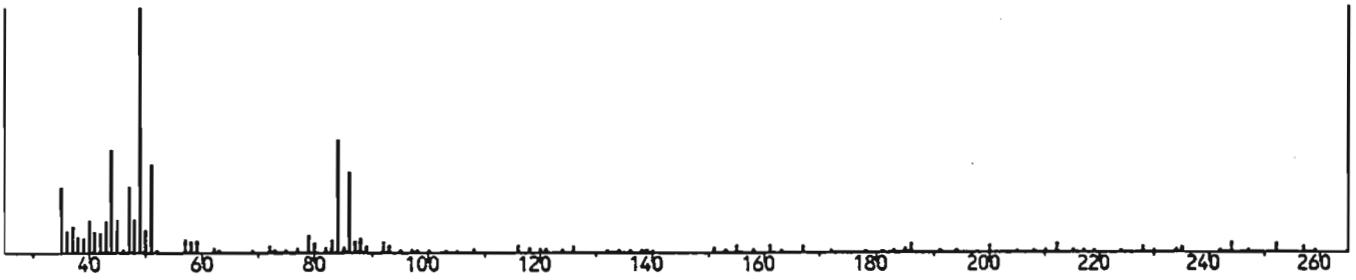
COMPOUND NO	COMPOUND LIB	COMPOUND ENTRY	SEARCH REF	SEARCH PRED	SEARCH SEL	SEARCH DELTA	SEARCH PEAKS	SAT FIT	SAT PEAKS	CHRO M/Z	CHRO TOP	CHRO DELTA	CHRO PEAKS
1	UM	1	-157	158	158	.	1	979	.	128	158	.	1
2	UM	2	-17	25	20	-5	1	993	.	50	20	.	1
3	UM	3	-29	37	.	.	.	.	.	94	39	.	1
4	UM	4	-39	46	55	9	1	991	.	62	.	.	.
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

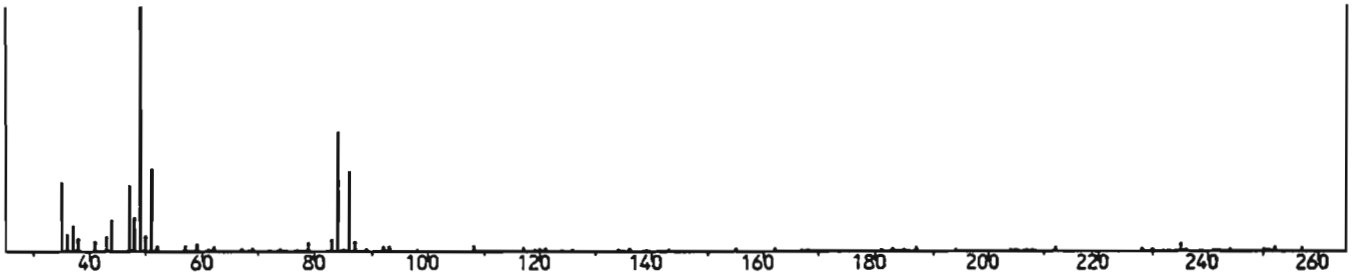
05/18/90 1137
OWAC -- SPS

LIBRARYUM#6 METHYLENE CHLORIDE

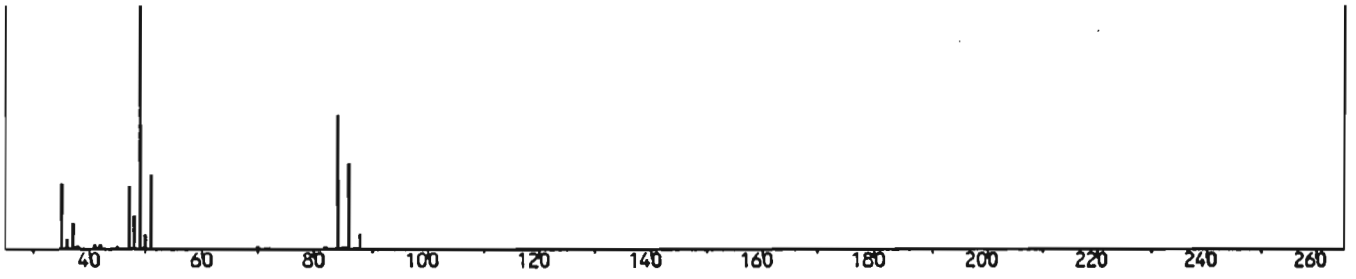
Unenhanced spectrum -- Scan # 90 Base m/z: 49 --- RIC: 15936. Max intensity: 2684



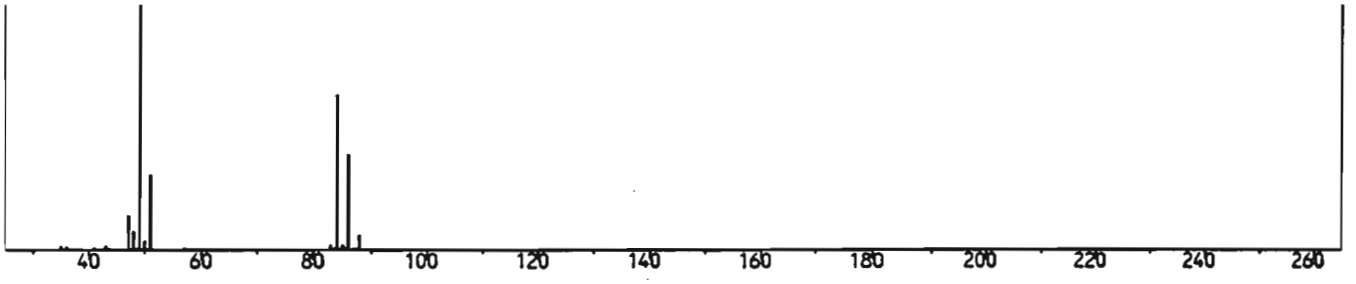
Enhanced (S 15B 2N 0T) -- Scan # 90 Base m/z: 49 --- RIC: 11456. Max intensity: 2600



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



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



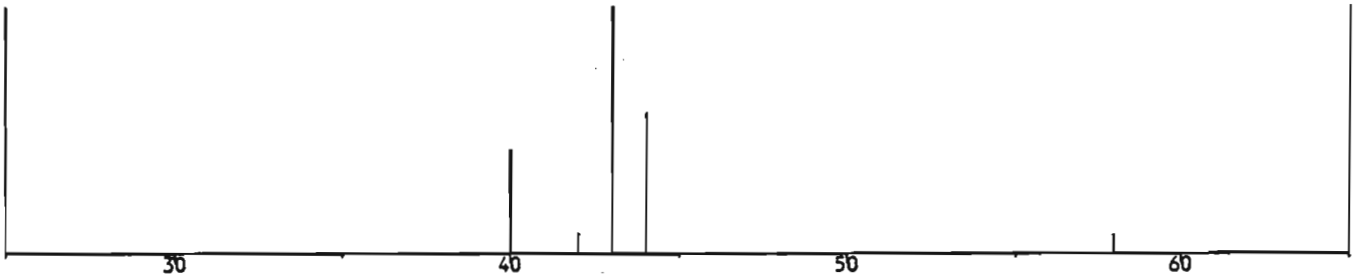
C114814V 7

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

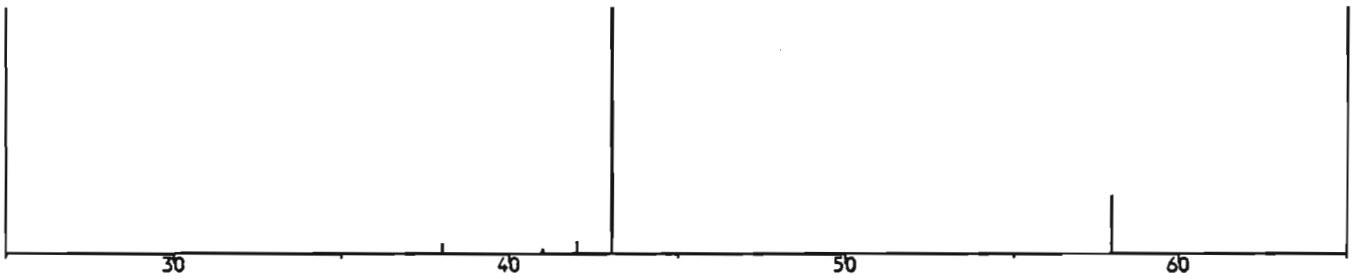
05/18/90 1137
OWAC -- SPS

LIBRARYUM#7 ACETONE

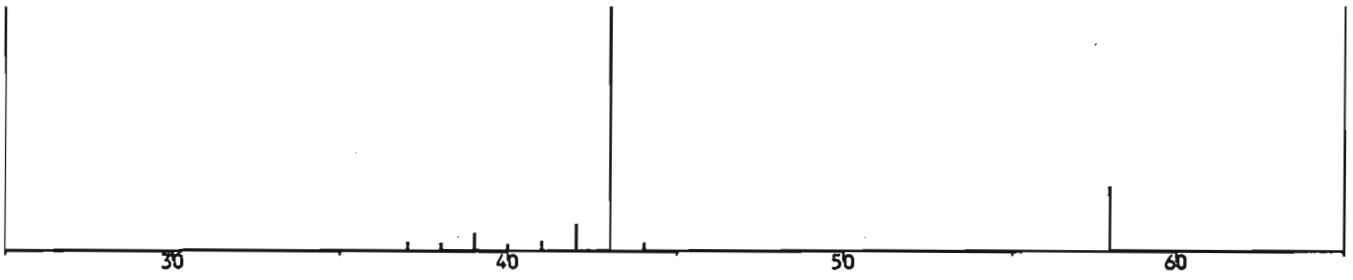
Unenhanced spectrum -- Scan # 109 Base m/z: 43 --- RIC: 1280. Max intensity: 596



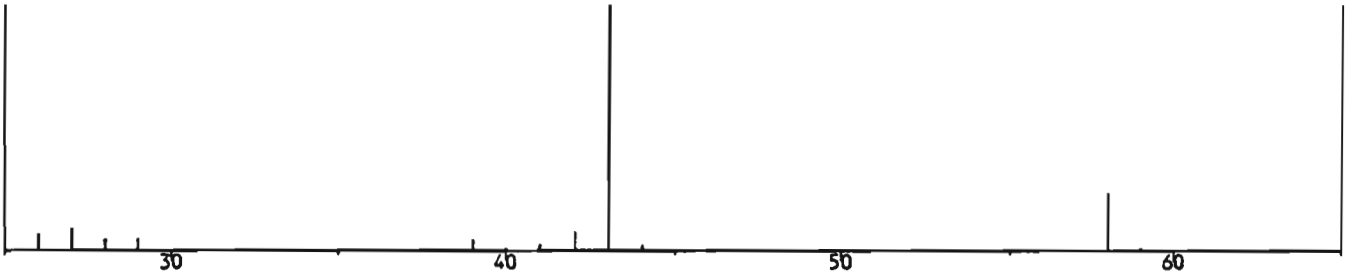
Enhanced (S 15B 2N 0T) -- Scan # 109 Base m/z: 43 --- RIC: 662. Max intensity: 493



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



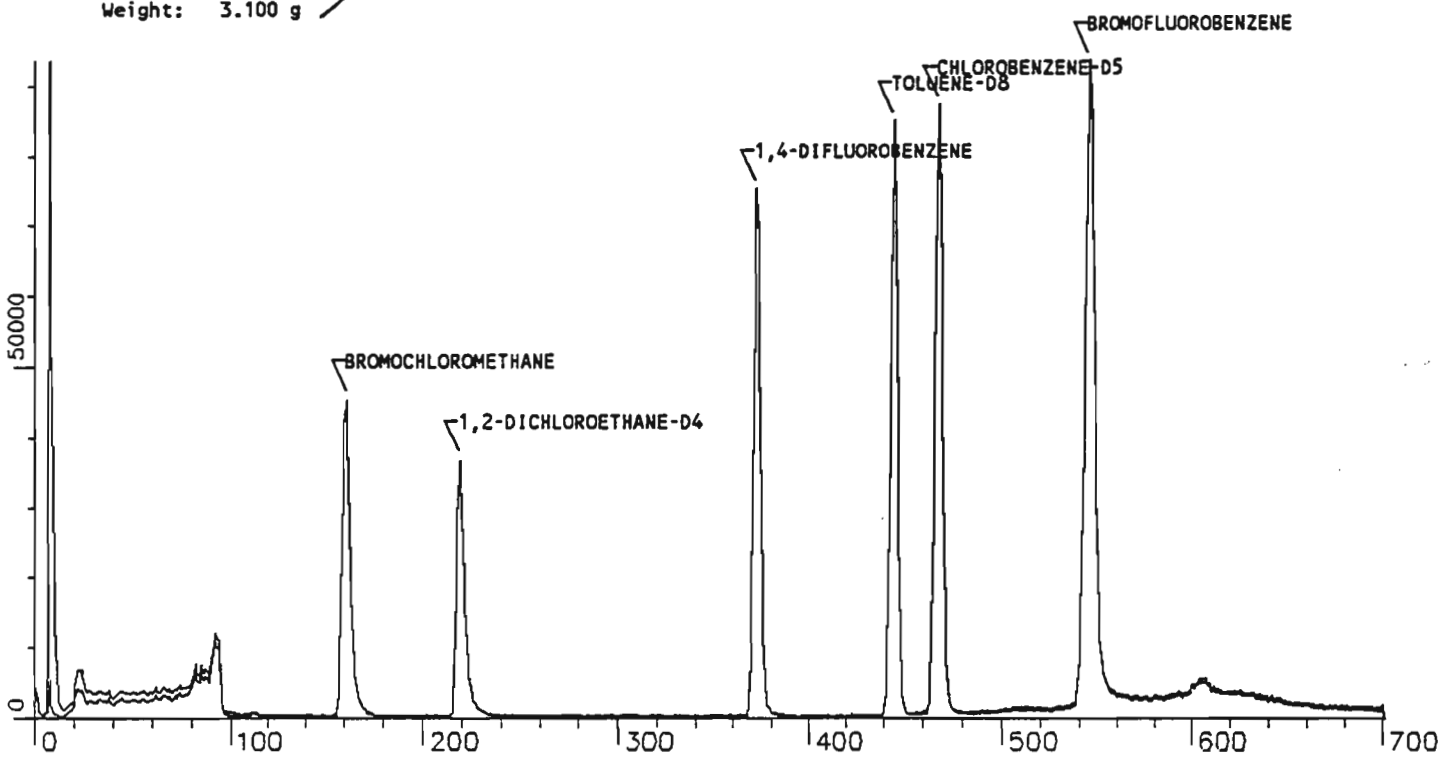
LIBRARYUM#7 CAS: 67-64-1 2-PROPANONE (C3H6O)



C114815V 1

Sample: L#114815 CLI#MW-9 5.5'-7.5' ETR#21422 3.10G
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
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
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	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

C114815V$_{16}$

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 TIC's for reporting

Cip

PROCEDURE: TCA DIAGNOSTIC REPORT 5/18/90 13:06:05
DATA FILE: C114815V
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	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	142	.	.	.	.	.	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	468	.	.	.	.	.	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	.	.	.

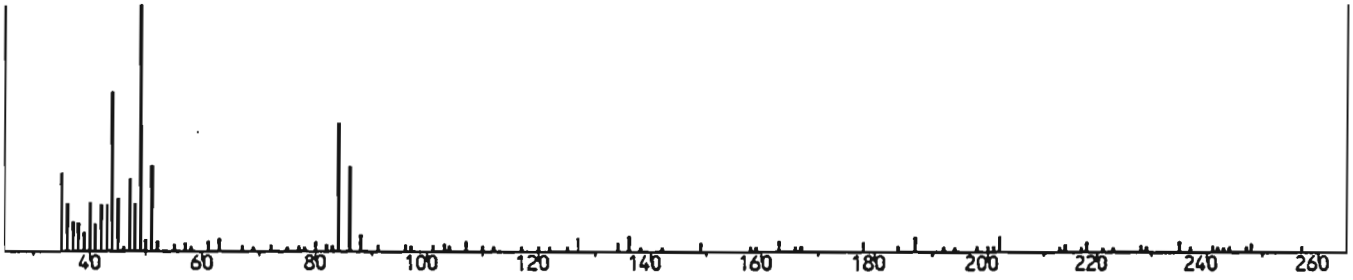
C114815V 6

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

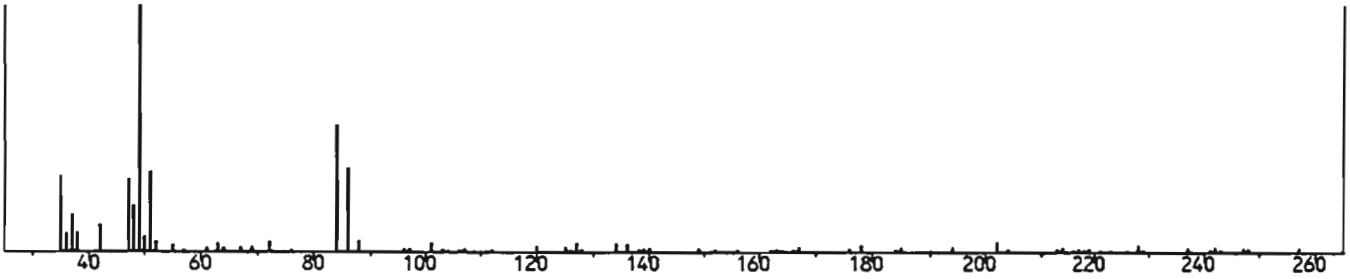
05/18/90 1228
OWAC -- SPS

LIBRARYUM#6 METHYLENE CHLORIDE

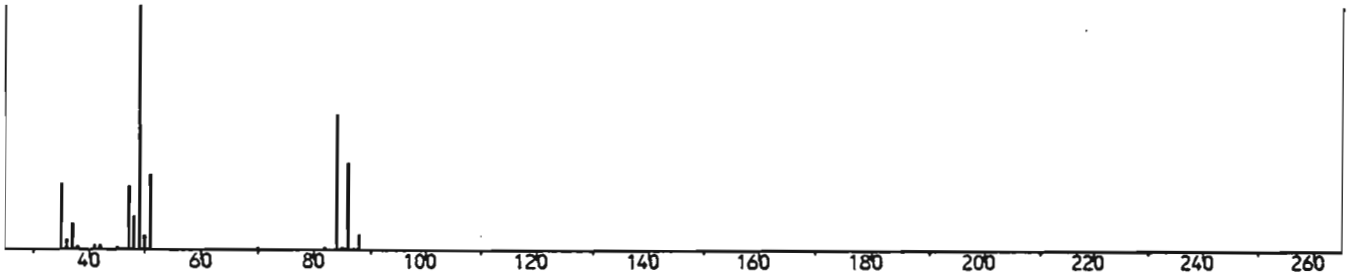
Unenhanced spectrum -- Scan # 92 Base m/z: 49 --- RIC: 12304. Max intensity: 1734



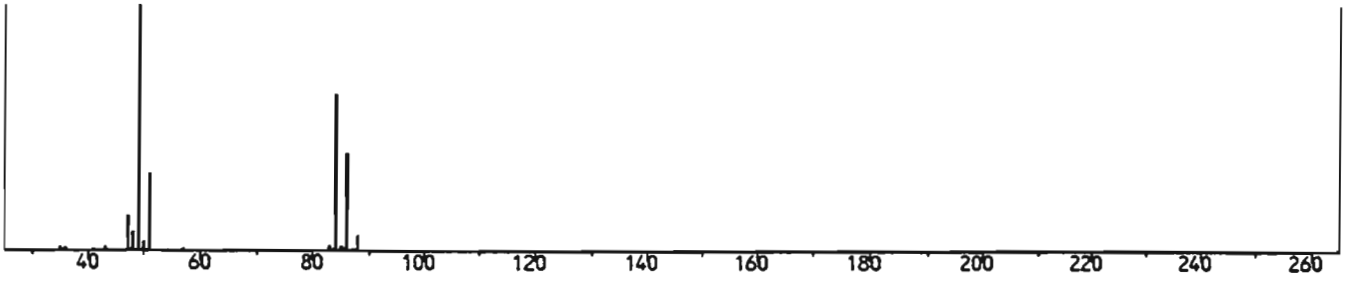
Enhanced (S 15B 2N 0T) -- Scan # 92 Base m/z: 49 --- RIC: 7768. Max intensity: 1668



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



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

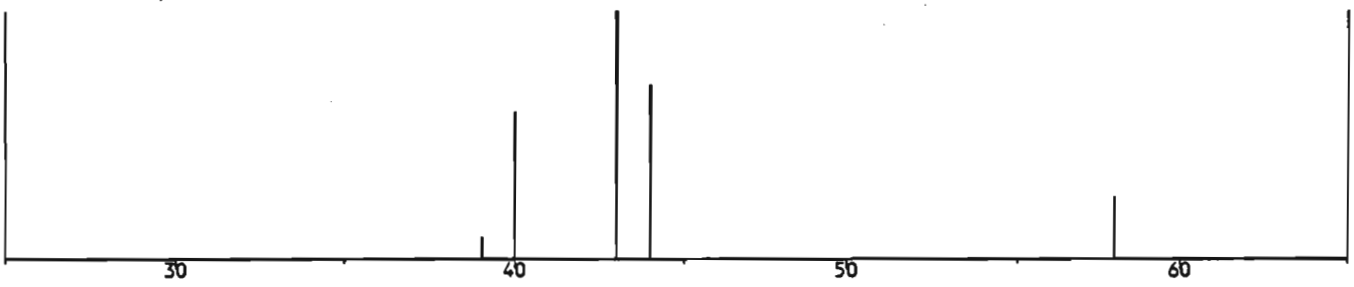


Sample: L#114815 CLI#MW-9 5.5'-7.5' ETR#21422 3.10G
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114815 Client ID: MW-9 ETR Number: 21422 Submitted by: ADIENV
Weight: 3.100 g

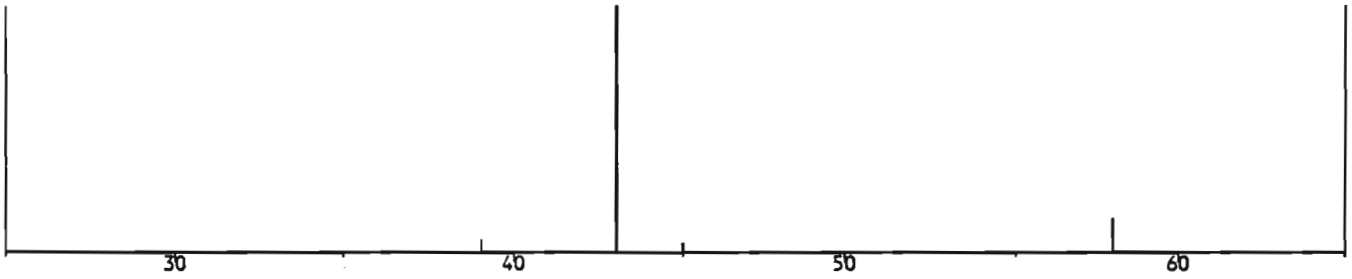
05/18/90 1228
OWAC -- SPS

LIBRARYUM#7 ACETONE

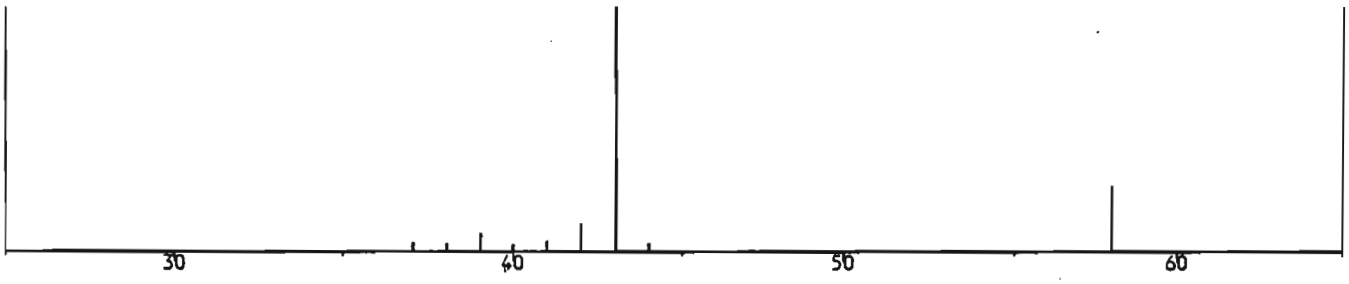
Unenhanced spectrum -- Scan # 112 Base m/z: 43 --- RIC: 949. Max intensity: 361



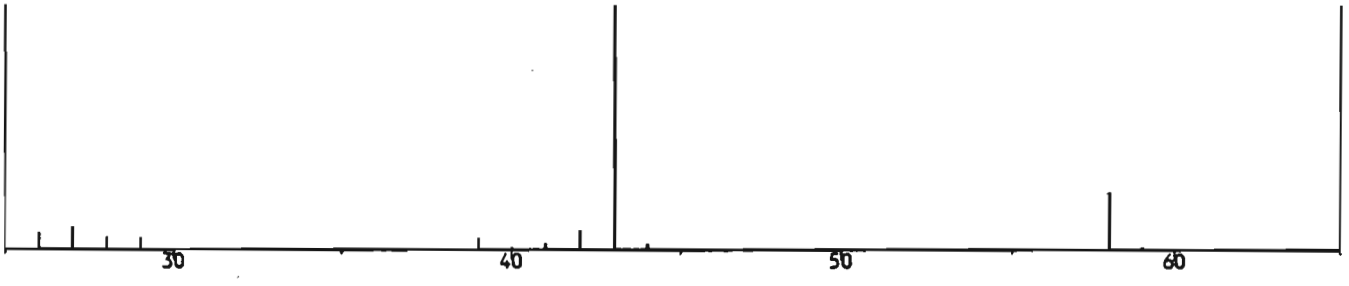
Enhanced (S 15B 2N 0T) -- Scan # 112 Base m/z: 43 --- RIC: 404. Max intensity: 331



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



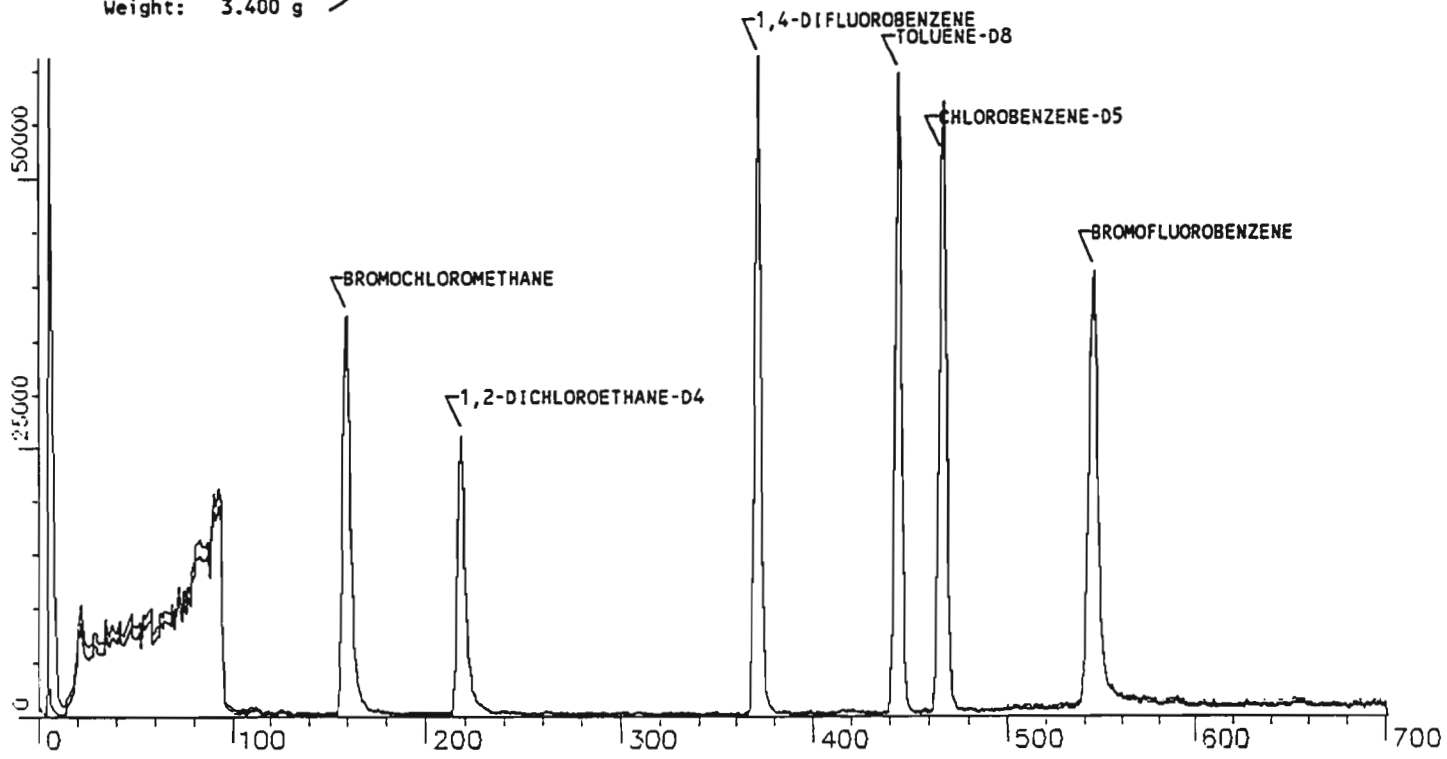
LIBRARYUM#7 CAS: 67-64-1 2-PROPANONE (C3H6O)



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

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

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~~ IS-TD#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 10:34:33
DATA FILE: C1148165V
REFERENCE: UTAB11
NAME LIST: UM INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: UMRET1

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

42 COMPOUNDS PROCESSED, 17 FOUND

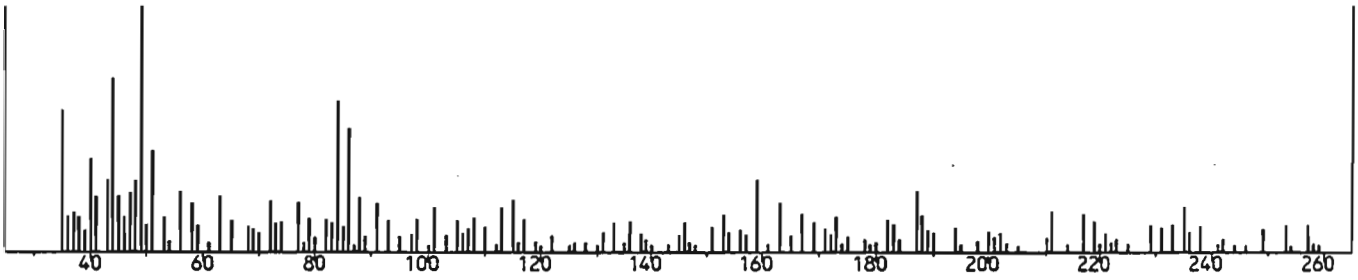
COMPOUND NO	LIB	ENTRY	REF	PRED	SEARCH DELTA	PEAKS	FIT	SAT PEAKS	CHRO M/Z	TOP	DELTA	PEAKS
1	UM	1	-158	158		1	979		128	159		1
2	UM	2	-18	41	4	1	985		50	41		1
3	UM	3	-30	47					94	48		1
4	UM	4	-40	58		5	990		62			
5	UM	5	-55	68	-1	3	986		64	65	-2	1
6	UM	6	-89	97	-1	3	977		84	91	-1	1
7	UM	7	-113	117	-5	1	994		43	112		1
8	UM	8	-112	116					56			
9	UM	9	-125	127					93			
10	UM	10	-122	124	2	1	1000		76	126		1
11	UM	11	-134	134					101			
12	UM	12	-151	148					96			
13	UM	13	-144	143					45			
14	UM	14	-371	371		1	997		114	371		1
15	UM	15	-160	161					55			
16	UM	16	-176	176					90			
17	UM	17	-180	181					71			
18	UM	18	-193	194					96			
19	UM	19	-202	203					80			
20	UM	20	-219	220					62			
21	UM	21	-217	218	218	1	1000		65	218		1
22	UM	22	-224	225					72			
23	UM	23	-210	211					101			
24	UM	24	-242	243					97	242		1
25	UM	25	-250	251					117			
26	UM	26	-262	263					40			
27	UM	27	-262	263					80			
28	UM	28	-291	292					69			
29	UM	29	-297	298					75			
30	UM	30	-309	309					130			
31	UM	31	-316	316					109			
32	UM	32	-365	366					98			
33	UM	33	-320	320					97			
34	UM	34	-320	320					78			
35	UM	35	-322	322					75			
36	UM	36	-345	345					63			
37	UM	37	-369	369					173			
38	UM	38	-467	467	467	1	994		117	466	-1	1
39	UM	39	-384	384					43	385		1
40	UM	40	-416	416					43	417		1
41	UM	41	-415	415	415	1	1	842	80	415	-1	1
42	UM	42	-421	421					164			
43	UM	43	-438	438					56			
44	UM	44	-444	444	444		1	992	98	444		1
45	UM	45	-448	448	448		1	997	90	449	1	1
46	UM	46	-469	469					112			
47	UM	47	-506	506					106	504		1
48	UM	48	-545	546	544	-1	1	992	98	545	1	1
49	UM	49	-569	569	571	-3	3	349	104	572		1
50	UM	50	-575	576	573	-3	3	990	106	573		1
51	UM	52	-589	589	590	1	1	991	106	591	1	1
52	UM	50	-653	653					146	652		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

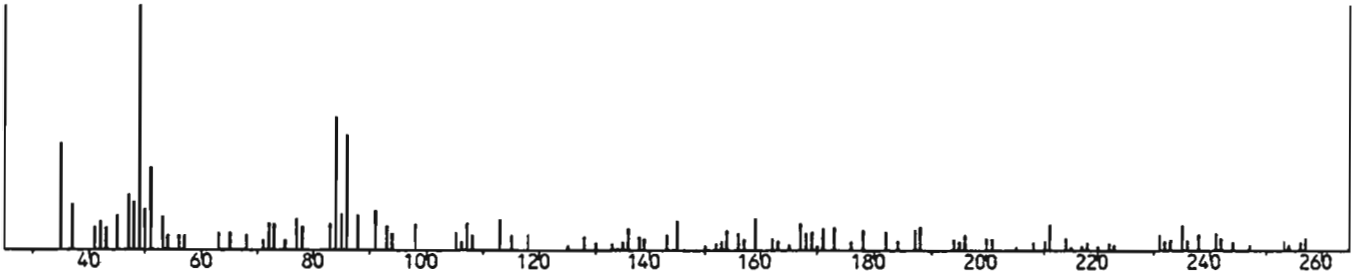
05/22/90 0957
OWAC -- CMP

LIBRARYUM#6 METHYLENE CHLORIDE

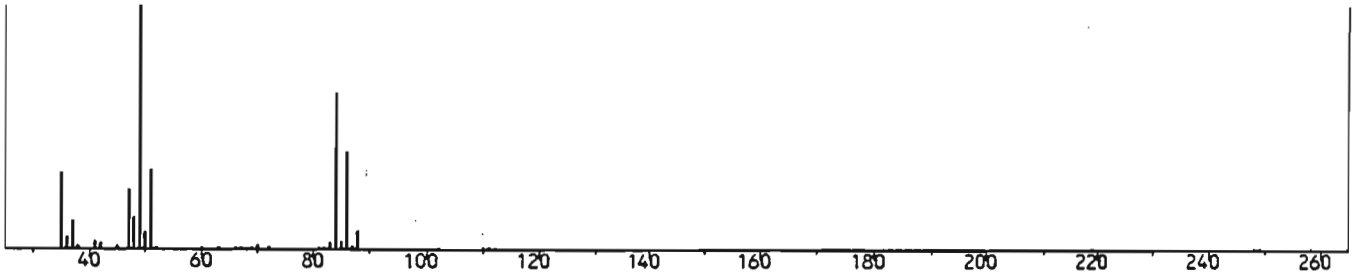
Unenhanced spectrum -- Scan # 91 Base m/z: 49 --- RIC: 19456. Max intensity: 1082



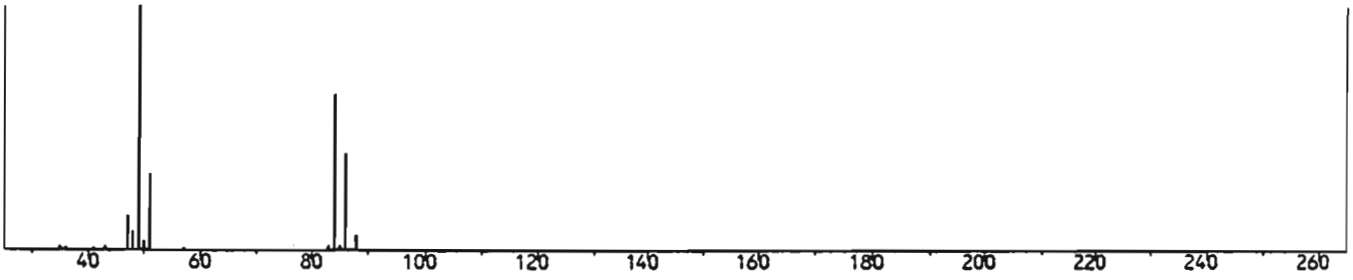
Enhanced (S 15B 2N 0T) -- Scan # 91 Base m/z: 49 --- RIC: 11296. Max intensity: 1164



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



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

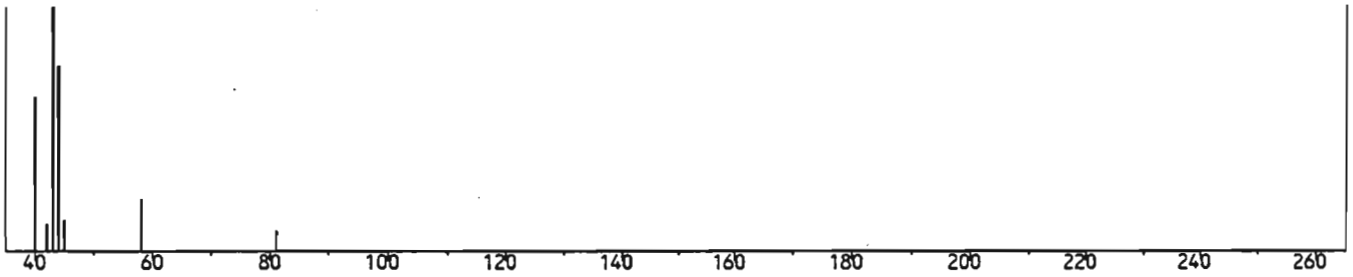


Sample: L#114816 CLI#MW-9,10'-12' ETR#21422 3.40GRAMS
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114816 Client ID: MW-9,10'-12' ETR Number: 21422 Submitted by: ADIENV
Weight: 3.400 g

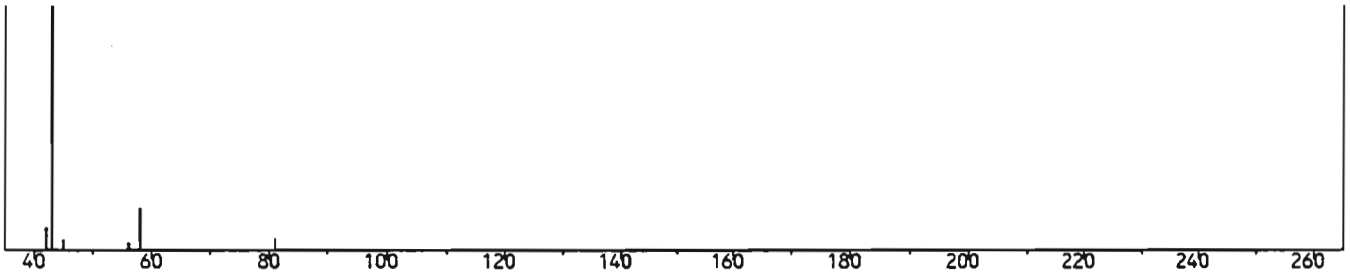
05/22/90 0957
OWAC -- CMP

LIBRARYUM#7 ACETONE

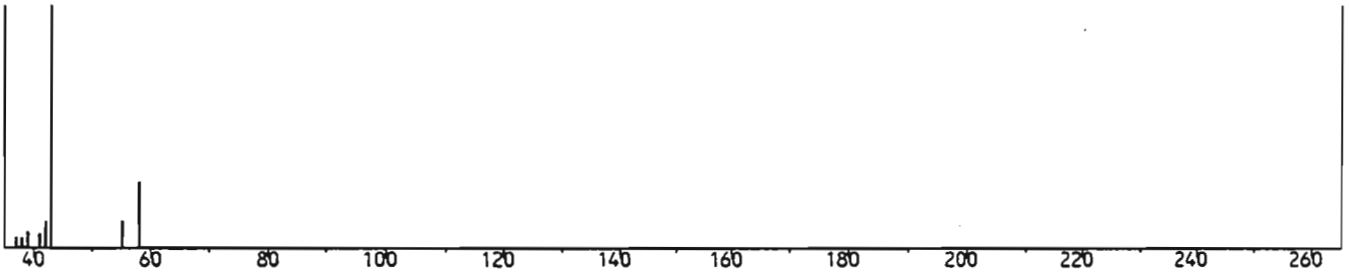
Unenhanced spectrum -- Scan # 112 Base m/z: 43 --- RIC: 1132. Max intensity: 388



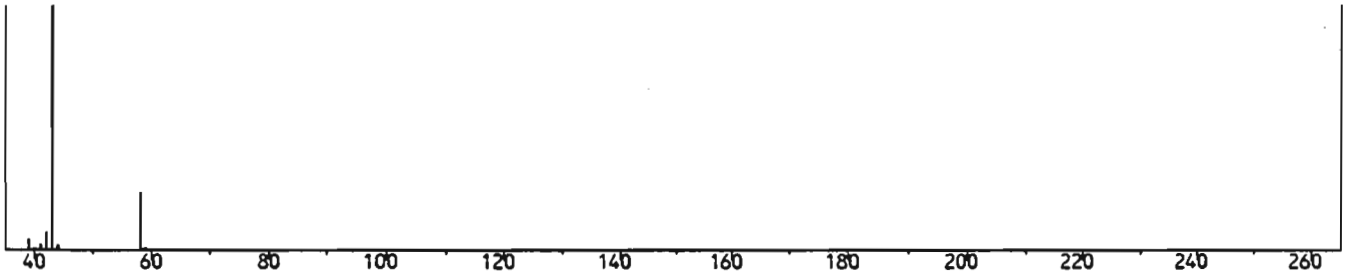
Enhanced (S 15B 2N 0T) -- Scan # 112 Base m/z: 43 --- RIC: 498. Max intensity: 363



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



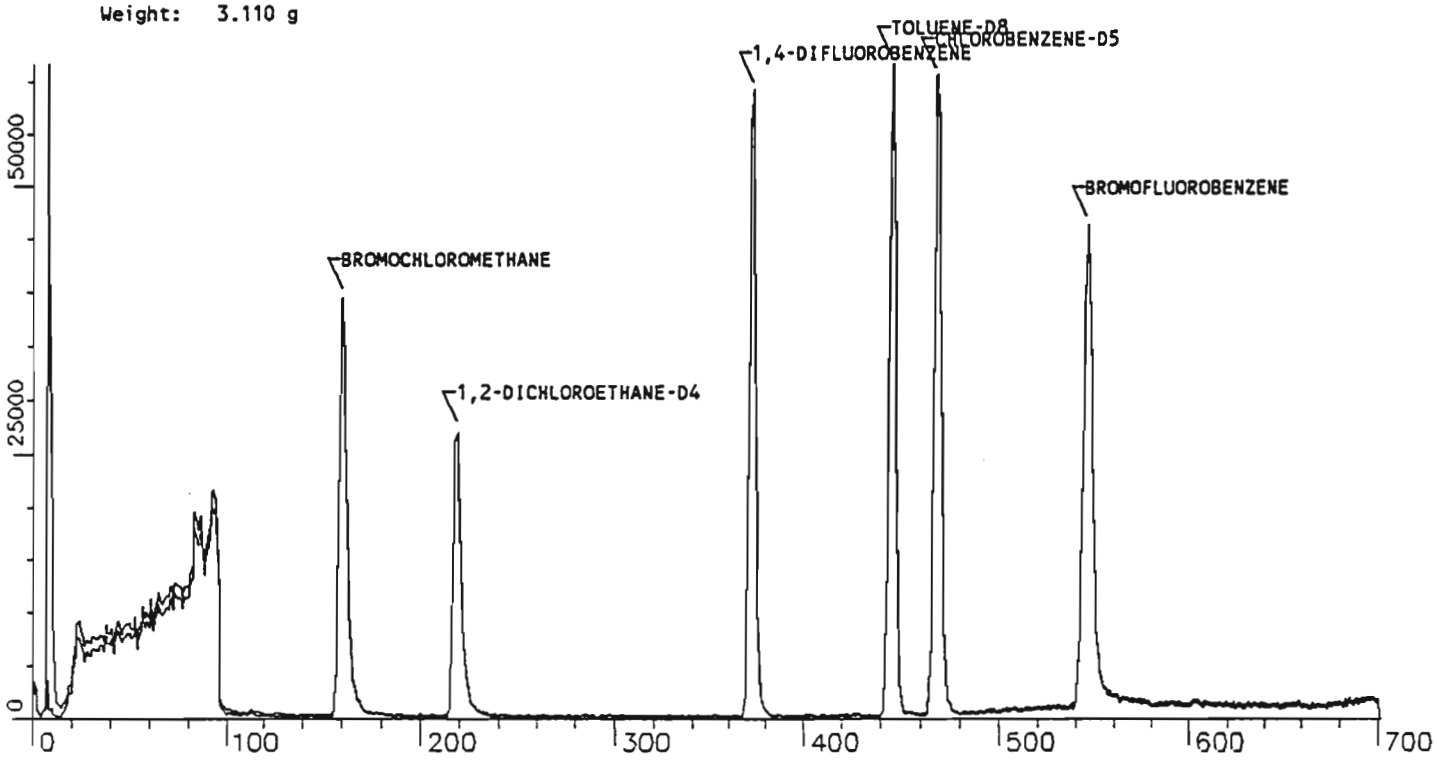
LIBRARYUM#7 CAS: 67-64-1 2-PROPANONE (C3H6O)



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

CKT050BHV (05/22/90 6:26) RFs loaded on MSDP1 6/13/90 7:37:04

C114817V 2

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	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	0.980	A BB	66.	2.412 PPB		53	2-PROPANOL

Sample: L#114817 CLI#MW-10,5.5'-7.5' ETR#21422 3.11GRAMS 05/22/90 1113
Conditions: GC/MS OWAC OWAC -- CMP
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	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	0.38	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*	0.250	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	3325.	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: C1148171
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	1	8	650	UMRET1/UMUNK1
2	2	1	0	2	2	1	0	UMRET2/UMUNK2
3	2	1	0	3	3	1	0	UMRET2/UMUNK3
4	1	1	0	4	4	1	59	UMRET3/UMUNK4
5	1	1	0	5	5	5	543	UMRET4/UMUNK5

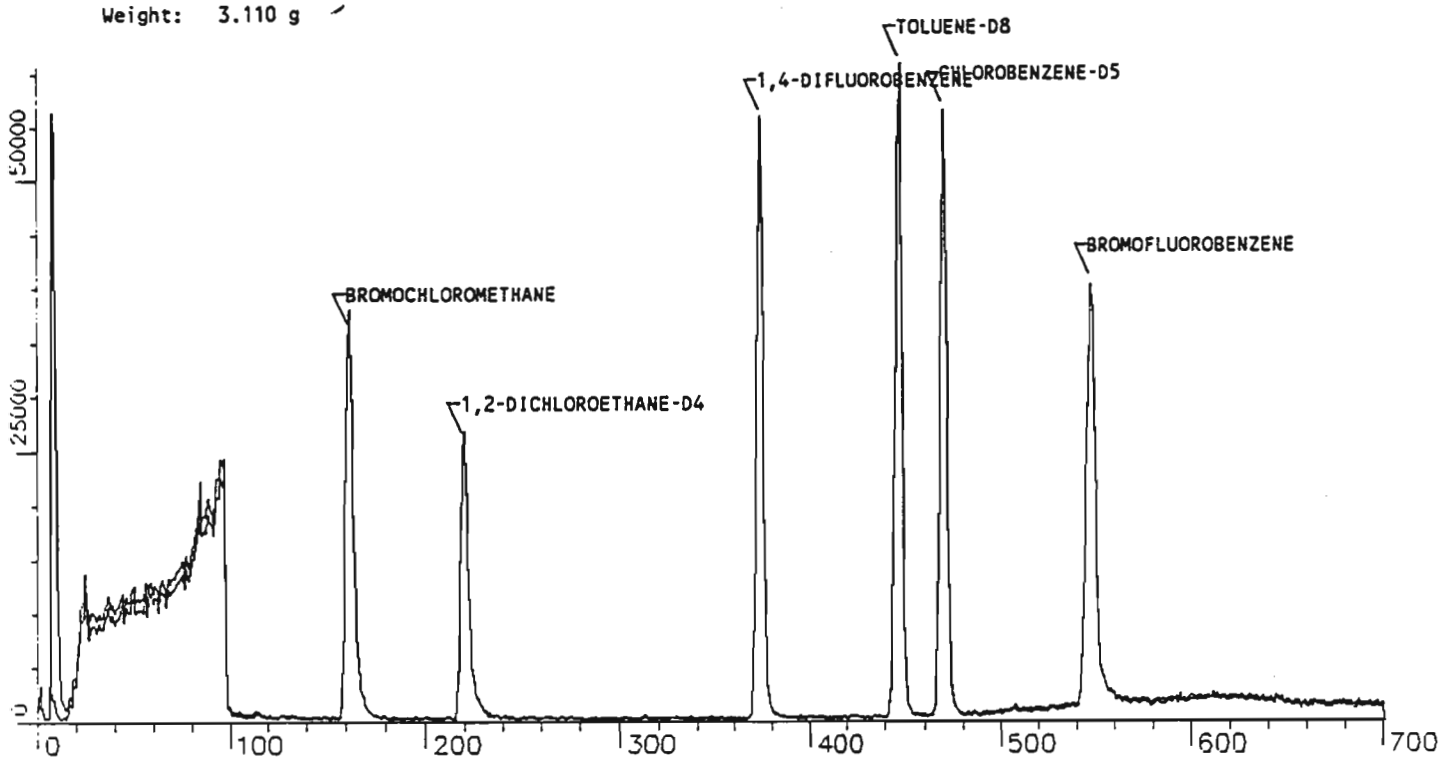
32 COMPOUNDS PROCESSED, 12 FOUND

COMPOUND NO	LIB	ENTRY	REF	PRED	SEARCH SEC	SEARCH DELTA	SEARCH PEAKS	SEARCH FIT	BAT PEAKS	CHRO M/Z	CHRO TOP	CHRO DELTA	CHRO PEAKS
1	UM	1	-158	160	160		1	977	.	128	160	.	1
2	UM	2	-118	40	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	126	127	-1	1	1000	.	76	127	.	1
11	UM	11	-134	137					.	101			
12	UM	12	-151	151					.	96			
13	UM	53	-144	144					.	45	144	.	1
14	UM	13	-371	377	373		1	992	.	114	373	.	1
15	UM	51	-160	160					.	55			
16	UM	14	-176	178					.	63			
17	UM	15	-180	182					.	71			
18	UM	16	-193	196					.	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					.	139			
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	472					.	112			
47	UM	45	-506	511					.	106			
48	UM	46	-545	552	546	-6	1	990	.	95	546	.	1
49	UM	47	-569	577	578	1	5	955	.	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

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



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

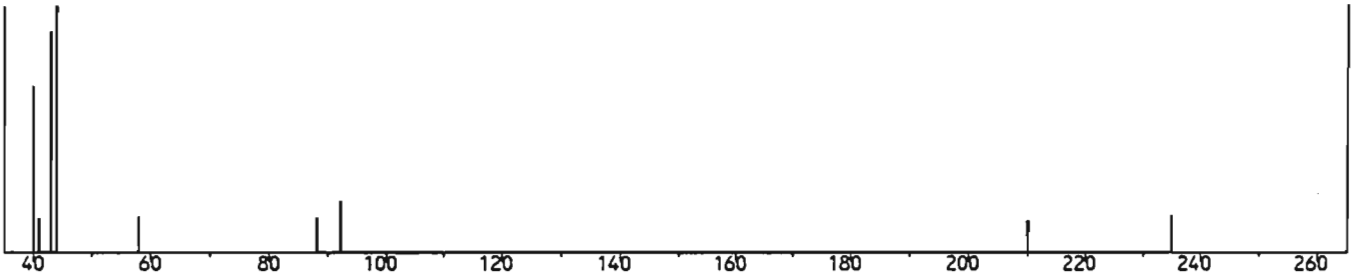
C114817V 7

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

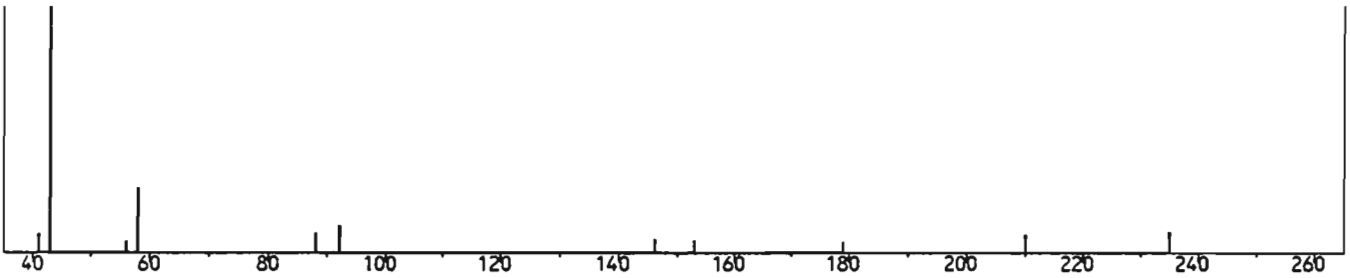
05/22/90 1113
OWAC -- CMP

LIBRARYUM#7 ACETONE

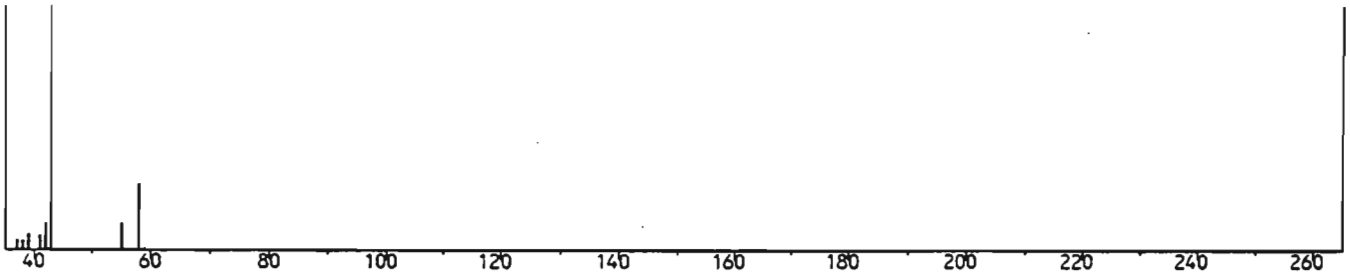
Unenhanced spectrum -- Scan # 113 Base m/z: 44 --- RIC: 905. Max intensity: 260



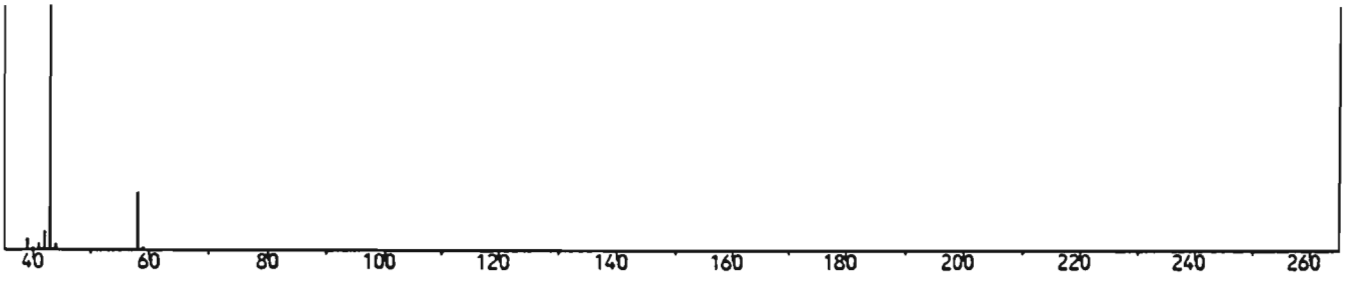
Enhanced (S 15B 2N 0T) -- Scan # 113 Base m/z: 43 --- RIC: 455. Max intensity: 244



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



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



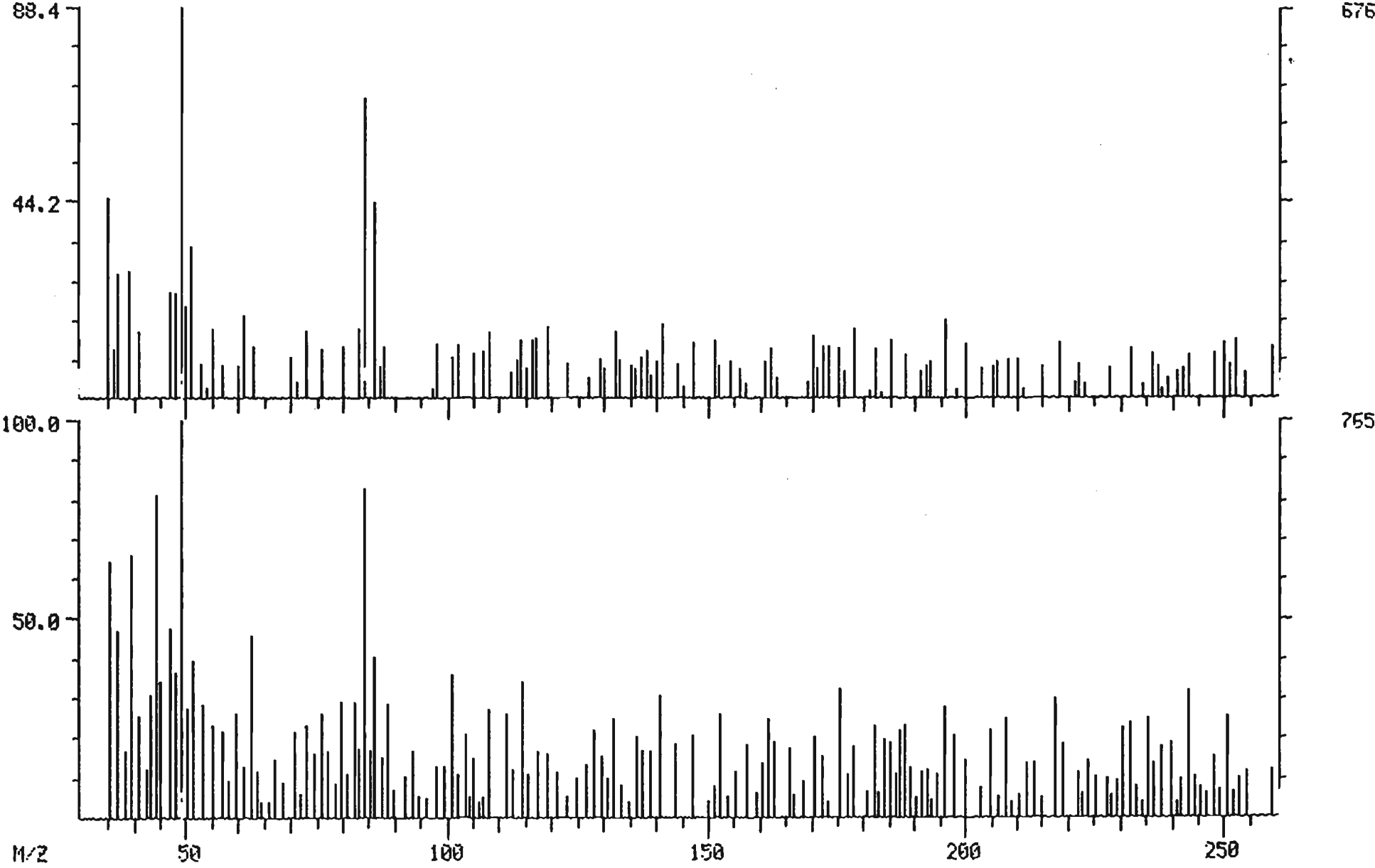
660000

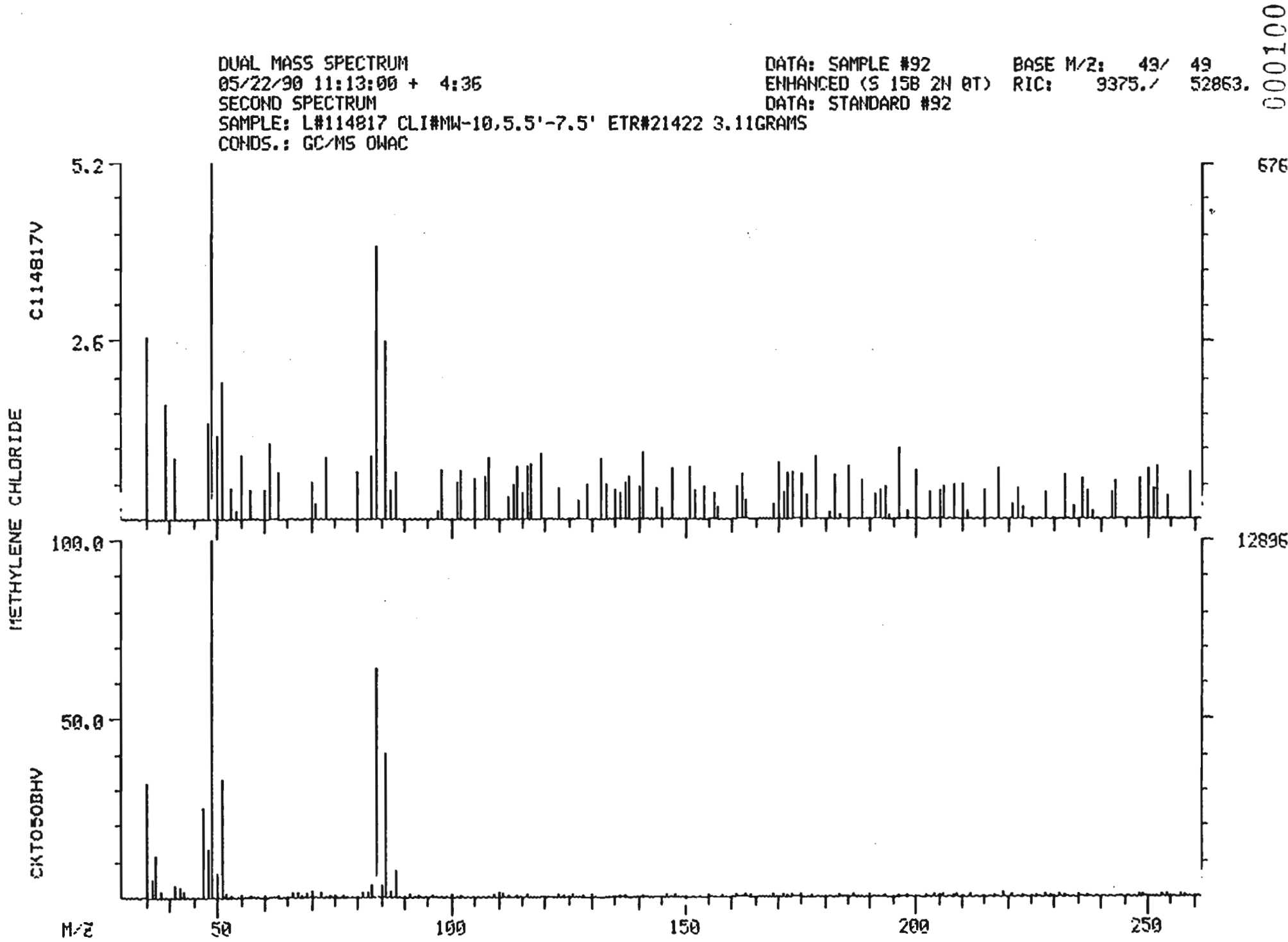
DUAL MASS SPECTRUM
05/22/90 11:13:00 + 4:36
SAMPLE: L#114817 CLI#MW-10,5.5'-7.5' ETR#21422 3.11GRAMS
CONDS.: GC/MS OWAC
ENHANCED (S 15B 2N 0T)

DATA: C114817V #92
CALI: C114817V #2

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

PRECONFIRMATION SPECTRUM OF METHYLENE CHLORIDE
C114817V




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.
000100
METHYLENE CHLORIDE
C114817V
CKTO50BHV
5.2
2.6
100.0
50.0
676
12896
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

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 05/22/90 1546
Conditions: GC/MS OWAC OWAC -- CMS
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

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~~ TCL#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
cip

PROCEDURE: TCA DIAGNOSTIC REPORT 5/22/90 16:24:56
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
1	1	1	0	1	4	3	78	UMRET3/UMUNK4
				1	4	3	316	UMRET4/UMUNK5

52 COMPOUNDS PROCESSED, 14 FOUND

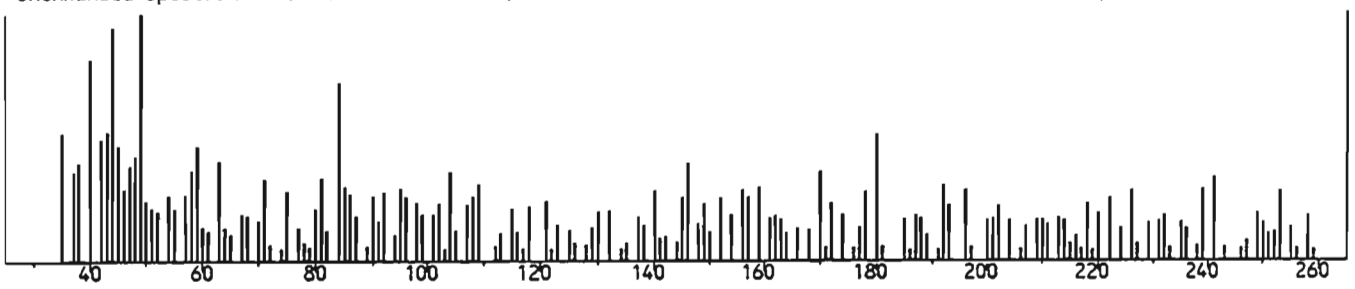
COMPOUND				SEARCH				SAT	CHRO			
NO	LIB	ENTRY	REF	PRED	REF	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	UM	1	-158	160	160		1	975		128	161	-1	1
2	UM	2	-18	37	40	3	2	1000		50	40		1
3	UM	3	-30	41						94	49		1
4	UM	4	-40	56	55	-1	4	1000		62	57	2	1
5	UM	5	-55	69	70	1	4	987		64	69	-1	1
6	UM	6	-89	98	93	-5	1	985		84	93		1
7	UM	7	-113	119	114	-5	1	997		43	114		1
8	UM	8	-112	118						56			
9	UM	9	-125	129						53			
10	UM	10	-122	127	128	1	1	1000		76	128		1
11	UM	11	-134	137						101			
12	UM	12	-151	152						96			
13	UM	13	-144	145						45			
14	UM	14	-371	372	373		1	998		114	373		1
15	UM	15	-160	164						58			
16	UM	16	-176	180						93			
17	UM	17	-180	184						71			
18	UM	18	-193	196						96			
19	UM	19	-202	205						80			
20	UM	20	-219	222						62			
21	UM	21	-217	220	220		1	995		65	219	-1	1
22	UM	22	-224	227						72			
23	UM	23	-210	213						101			
24	UM	24	-242	246						97			
25	UM	25	-250	253						117			
26	UM	26	-262	266						40			
27	UM	27	-291	294						80			
28	UM	28	-297	300						93			
29	UM	29	-309	312						75			
30	UM	30	-316	316						100			
31	UM	31	-365	367						98			
32	UM	32	-320	322						97			
33	UM	33	-322	324						78	323		1
34	UM	34	-345	347						75			
35	UM	35	-369	371						63			
36	UM	36	-467	469	469		1	988		173			
37	UM	37	-384	386						117	469		1
38	UM	38	-416	418						40			
39	UM	39	-415	417						43			
40	UM	40	-421	423						83			
41	UM	41	-438	440						164			
42	UM	42	-444	446	447	1	1	991		56			
43	UM	43	-448	450						98	447		1
44	UM	44	-469	472						92	449		1
45	UM	45	-506	510						110			
46	UM	46	-545	546	547	-2	1	987		106			
47	UM	47	-569	570	570	-1	3	353		95	547		1
48	UM	48	-575	576	580	4	1	900		104			
49	UM	49	-589	594						106			
50	UM	50	-653	658						106			
										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

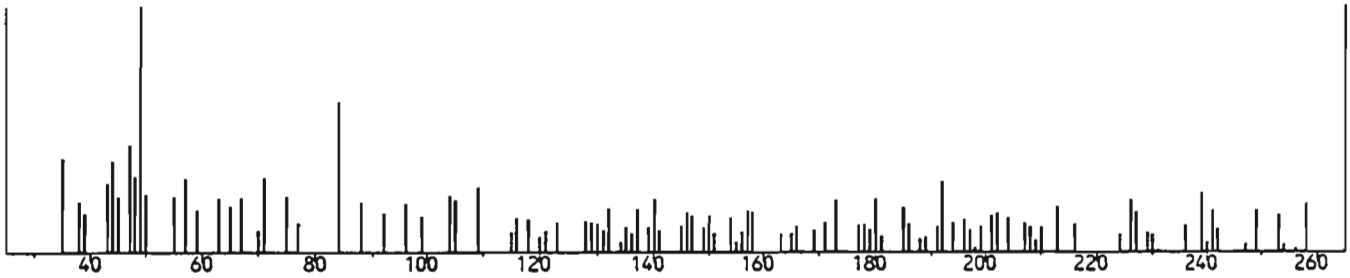
05/22/90 1546
OWAC -- CMS

LIBRARYUM#6 METHYLENE CHLORIDE

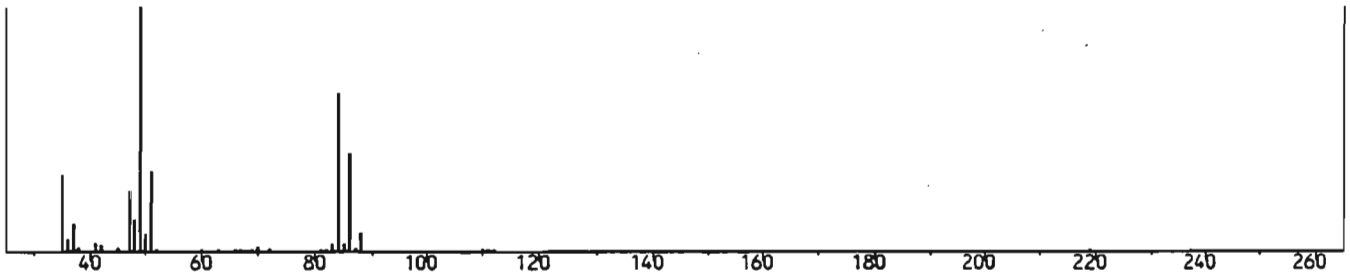
Unenhanced spectrum -- Scan # 93 Base m/z: 49 --- RIC: 22656. Max intensity: 688



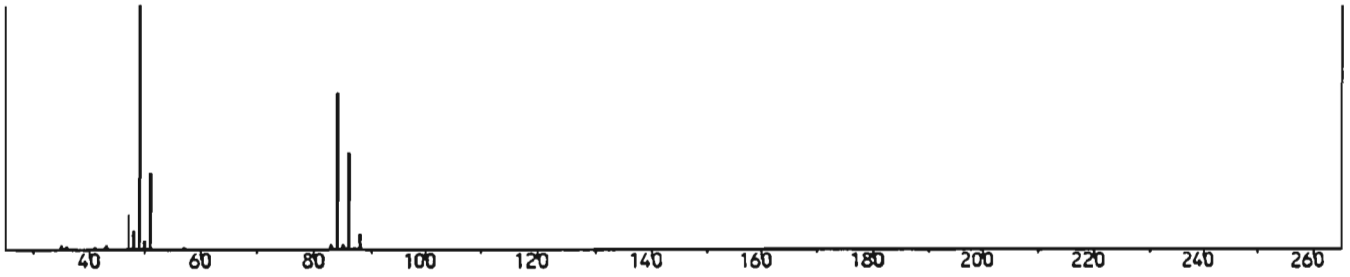
Enhanced (S 158 2N 0T) -- Scan # 93 Base m/z: 49 --- RIC: 9296. Max intensity: 561



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



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



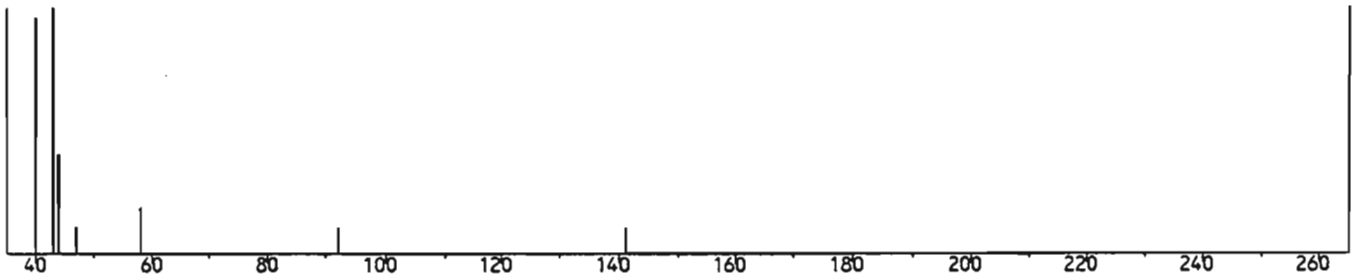
C114818V$_{10}$

05/22/90 1546
OWAC -- CMS

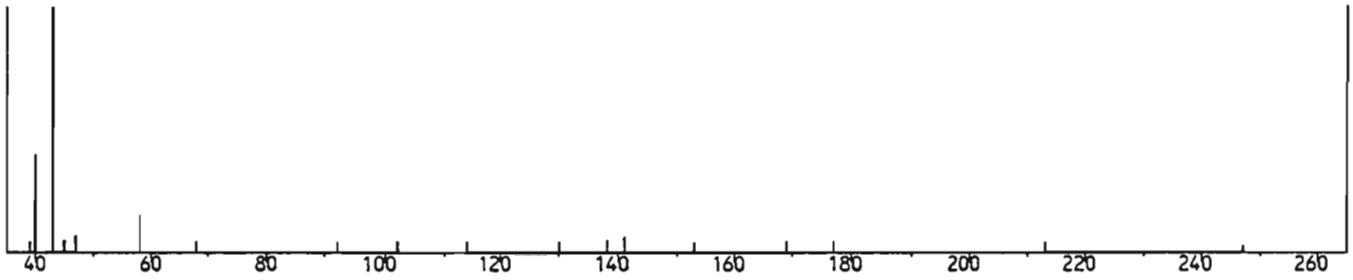
Sample: L#114818 CLI#MW-10,20-22' ETR#21422 3.11G
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114818 Client ID: MW-10,20-22' ETR Number: 21422 Submitted by: ADIENV
Weight: 3.110 g

LIBRARYUM#7 ACETONE

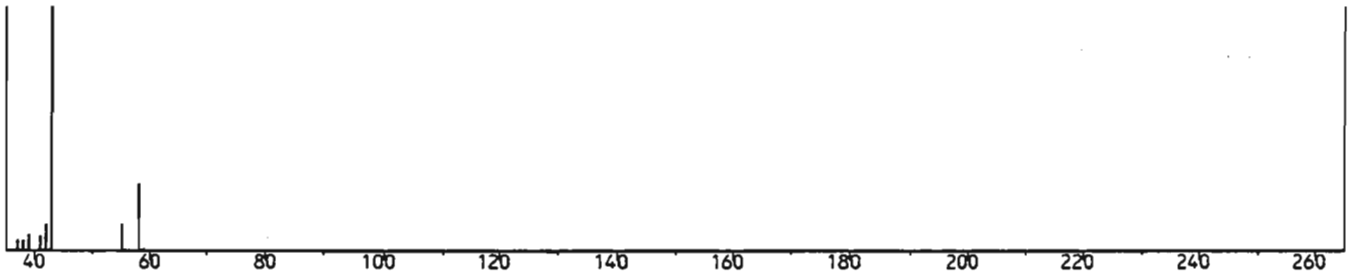
Unenhanced spectrum -- Scan # 114 Base m/z: 43 --- RIC: 898. Max intensity: 314



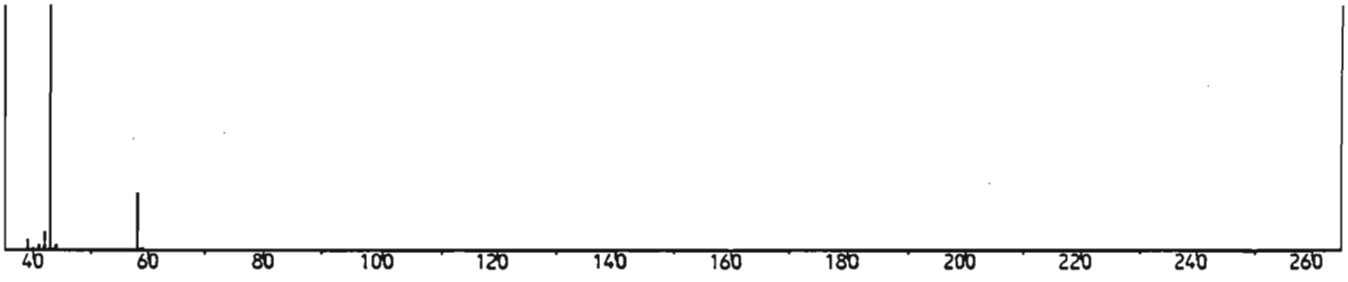
Enhanced (S 15B 2N 0T) -- Scan # 114 Base m/z: 43 --- RIC: 563. Max intensity: 254



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



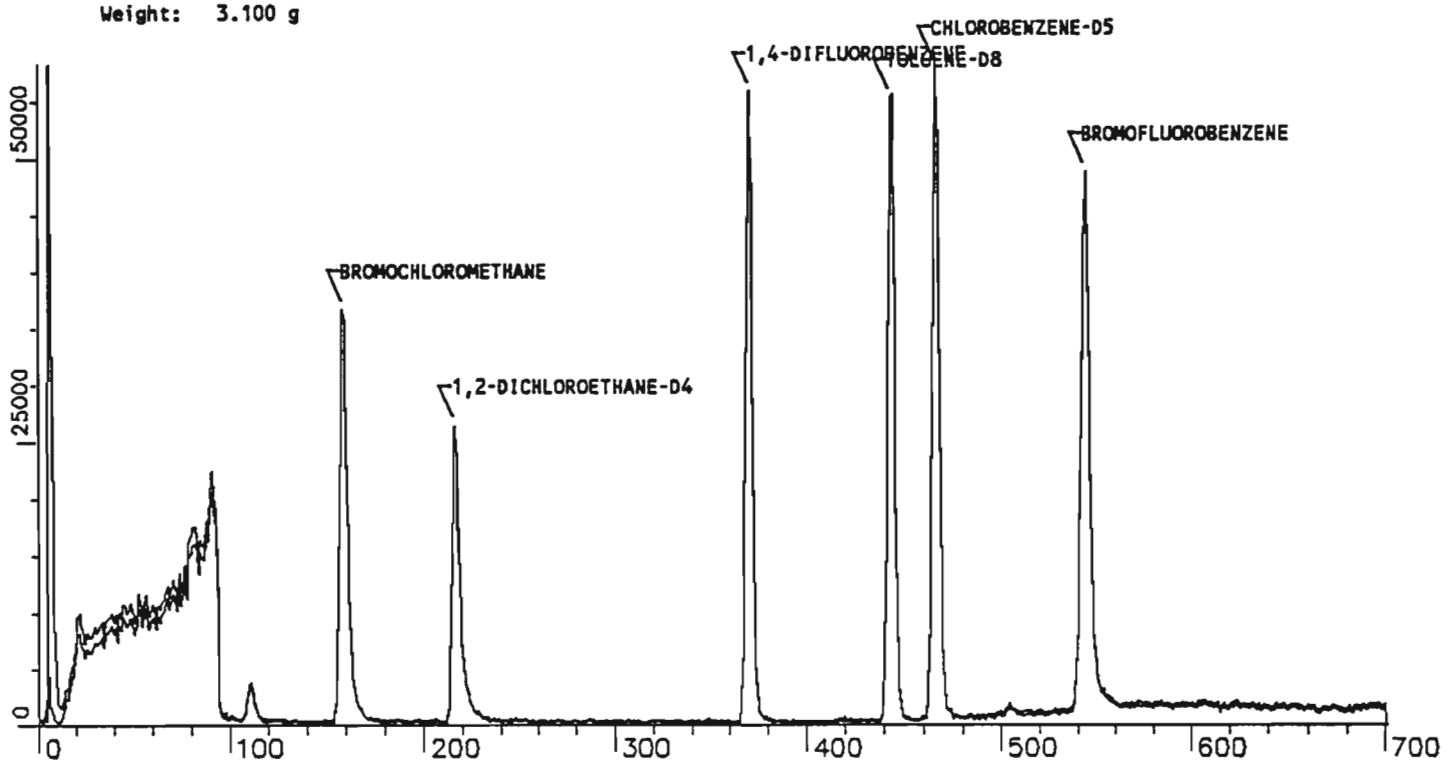
LIBRARYUM#7 CAS: 67-64-1 2-PROPANONE (C3H6O)



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		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~~	~~91591.~~	~~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

PROCEDURE: TOA DIAGNOSTIC REPORT 5/22/90 12:32:15
DATA FILE: C114818V
REFERENCE: JTAB11
AMS 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	[illegible]	7	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			SEARCH				BAT	CHRO			
NO	LIB	ENTRY	REF	PRED	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
[illegible]	UM	1	-158	[illegible]		1	977		128	158		1
[illegible]	UM	2	-118	[illegible]	-3	1	987		50			
[illegible]	UM	3	-30	[illegible]					94	41		1
[illegible]	UM	4	-40	[illegible]	19	1	976		62			
[illegible]	UM	5	-55	[illegible]	-1	2	979		64	60		1
[illegible]	UM	6	-89	[illegible]	-4	1	980		84	91		1
[illegible]	UM	7	-113	116	-5	1	992		43	111		1
[illegible]	UM	8	-112	116					56			
[illegible]	UM	9	-126	126					53			
[illegible]	UM	10	-122	124	125	1	1000		76	125		1
[illegible]	UM	11	-134	134					101			
[illegible]	UM	12	-151	149					95			
[illegible]	UM	53	-144	143					45			
[illegible]	UM	13	-371	370	370		1	997	114	370		1
[illegible]	UM	51	-160	159					58			
[illegible]	UM	14	-176	175					63			
[illegible]	UM	15	-180	179					71			
[illegible]	UM	16	-193	192					96			
[illegible]	UM	17	-202	201					83			
[illegible]	UM	18	-219	218	217	-1	1	910	62			
[illegible]	UM	19	-217	218	[illegible]		1	998	65	216		1
[illegible]	UM	20	-224	223	223		2	942	72	223		2
[illegible]	UM	21	-210	209					101			
[illegible]	UM	22	-242	241					97			
[illegible]	UM	23	-250	249					117			
[illegible]	UM	24	-262	261					43			
[illegible]	UM	25	-262	261					80			
[illegible]	UM	26	-291	290					63			
[illegible]	UM	27	-297	296					75			
[illegible]	UM	28	-309	308					130			
[illegible]	UM	29	-316	314					129			
[illegible]	UM	30	-365	364					98			
[illegible]	UM	31	-320	319					97			
[illegible]	UM	32	-320	319					78	320		1
[illegible]	UM	33	-322	321					75			
[illegible]	UM	34	-345	344					63			
[illegible]	UM	35	-369	368					173			
[illegible]	UM	36	-467	466	466		1	984	117	466		1
[illegible]	UM	37	-384	383					43			
[illegible]	UM	38	-416	415					43	417		1
[illegible]	UM	39	-415	414					83			
[illegible]	UM	40	-421	420					164			
[illegible]	UM	41	-438	437					56			
[illegible]	UM	42	-444	443	443		1	989	98	443		1
[illegible]	UM	43	-448	447	447		1	982	92	448	1	1
[illegible]	UM	44	-469	468					112			
[illegible]	UM	45	-506	505	505		1	900	106	505		1
[illegible]	UM	46	-545	544	544		1	993	95	544		1
[illegible]	UM	47	-569	568	568	-2	2	219	104			
[illegible]	UM	48	-575	574	575	1	1	929	106			
[illegible]	UM	49	-589	588					106			
[illegible]	UM	50	-633	632					146			

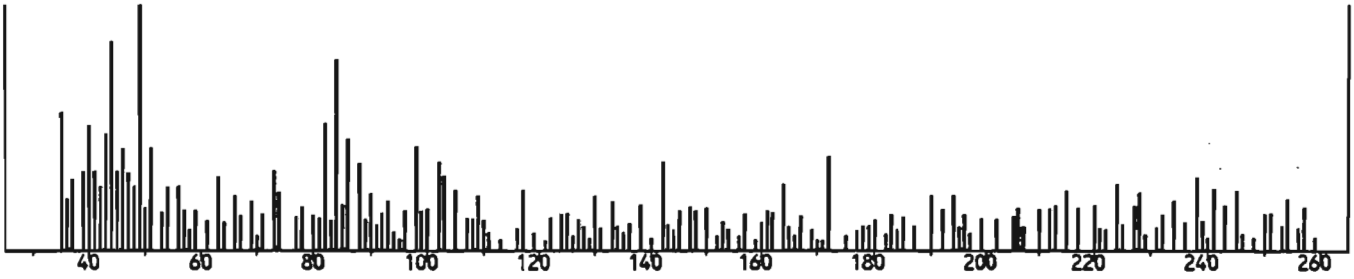
C114819V 6

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

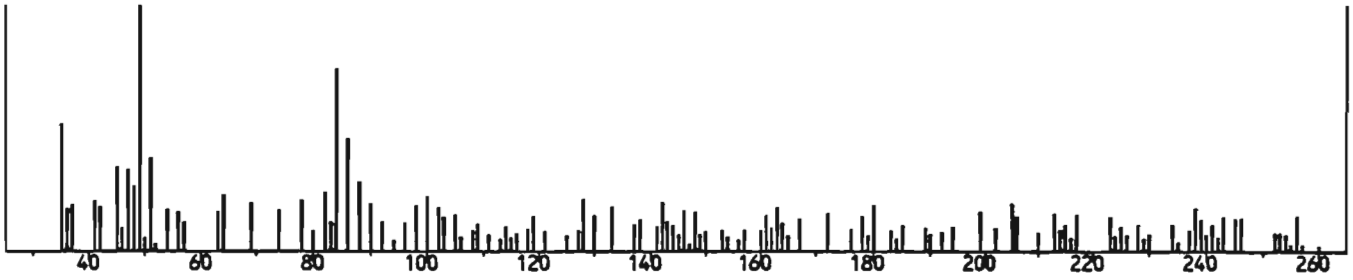
05/22/90 1209
OWAC -- CMP

LIBRARYUM#6 METHYLENE CHLORIDE

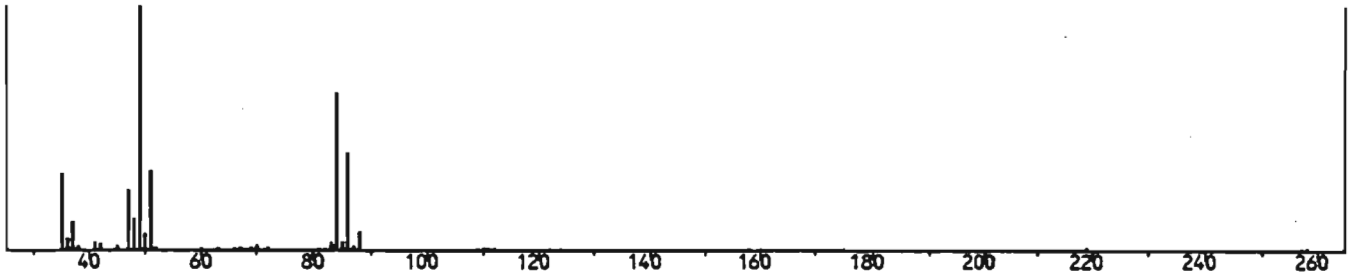
Unenhanced spectrum -- Scan # 91 Base m/z: 49 --- RIC: 22400. Max intensity: 776



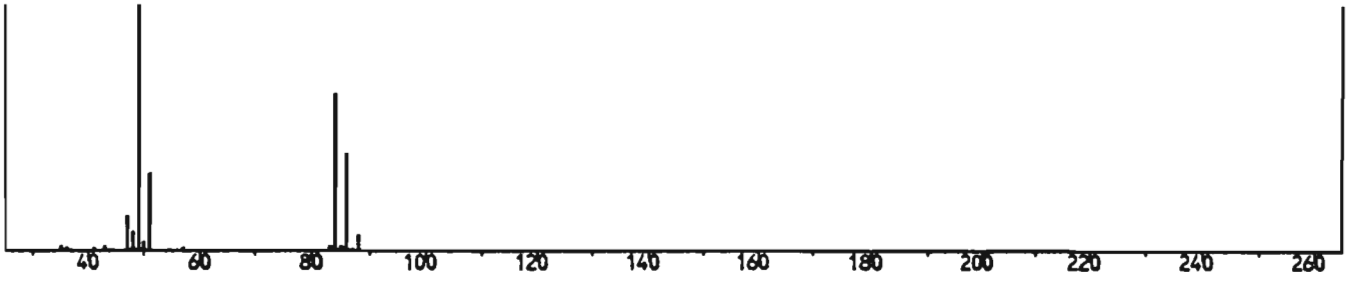
Enhanced (S 15B 2N 0T) -- Scan # 91 Base m/z: 49 --- RIC: 11520. Max intensity: 684



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



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



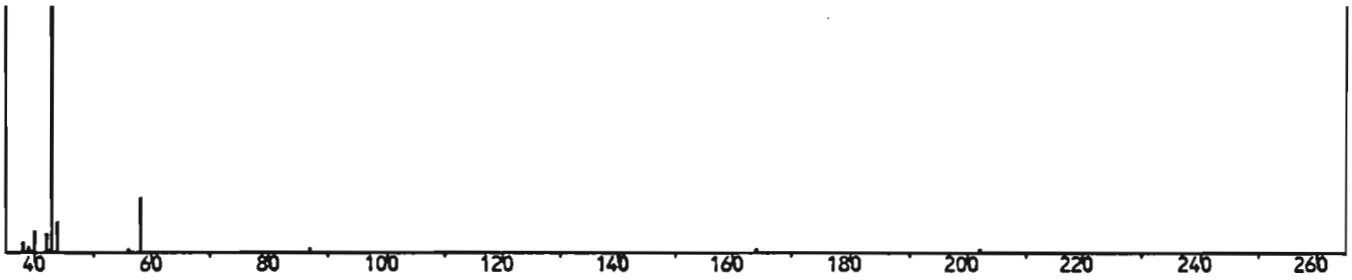
C114819V 7

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

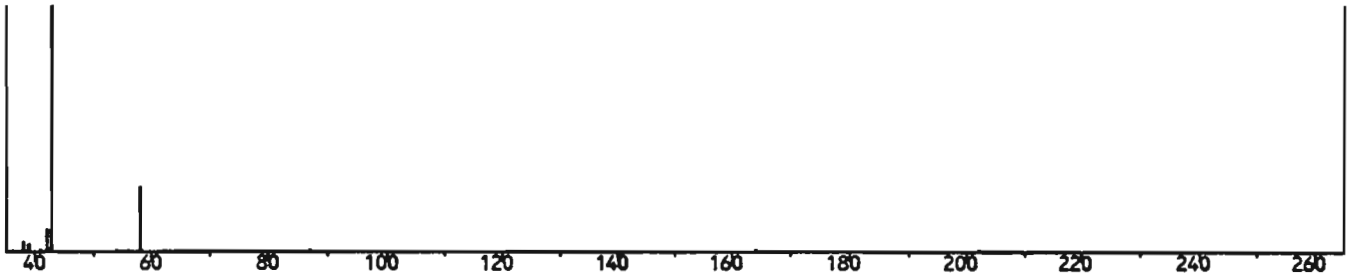
05/22/90 1209
OWAC -- CMP

LIBRARYUM#7 ACETONE

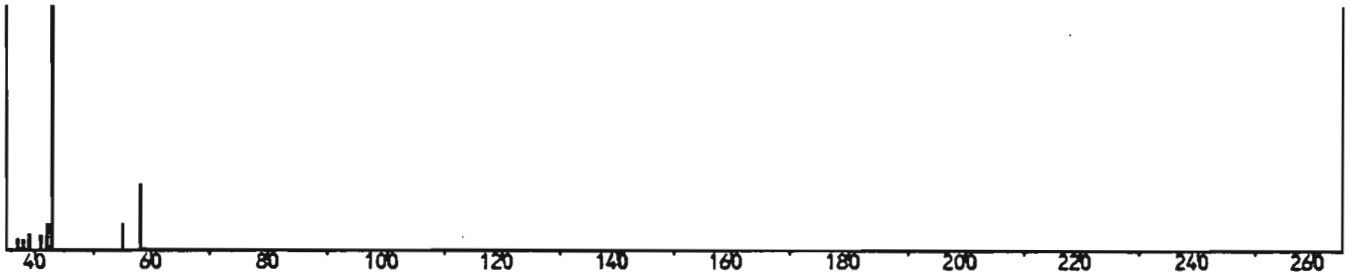
Unenhanced spectrum -- Scan # 111 Base m/z: 43 --- RIC: 3824. Max intensity: 2344



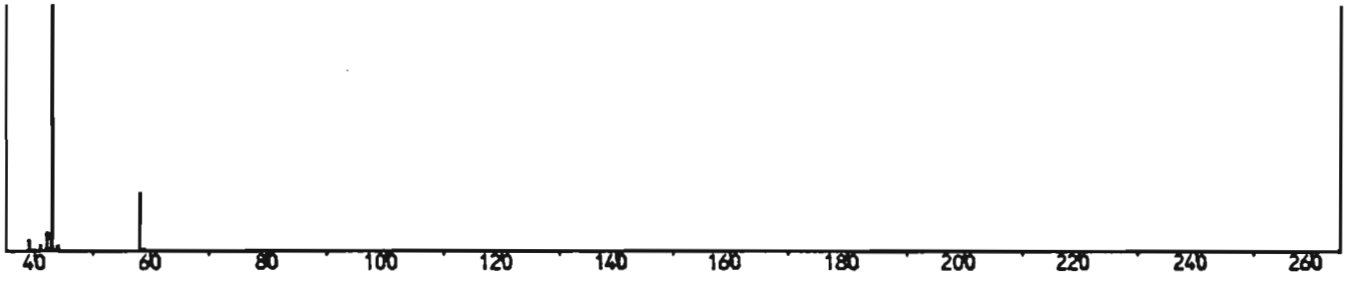
Enhanced (S 15B 2N 0T) -- Scan # 111 Base m/z: 43 --- RIC: 3252. Max intensity: 2180



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



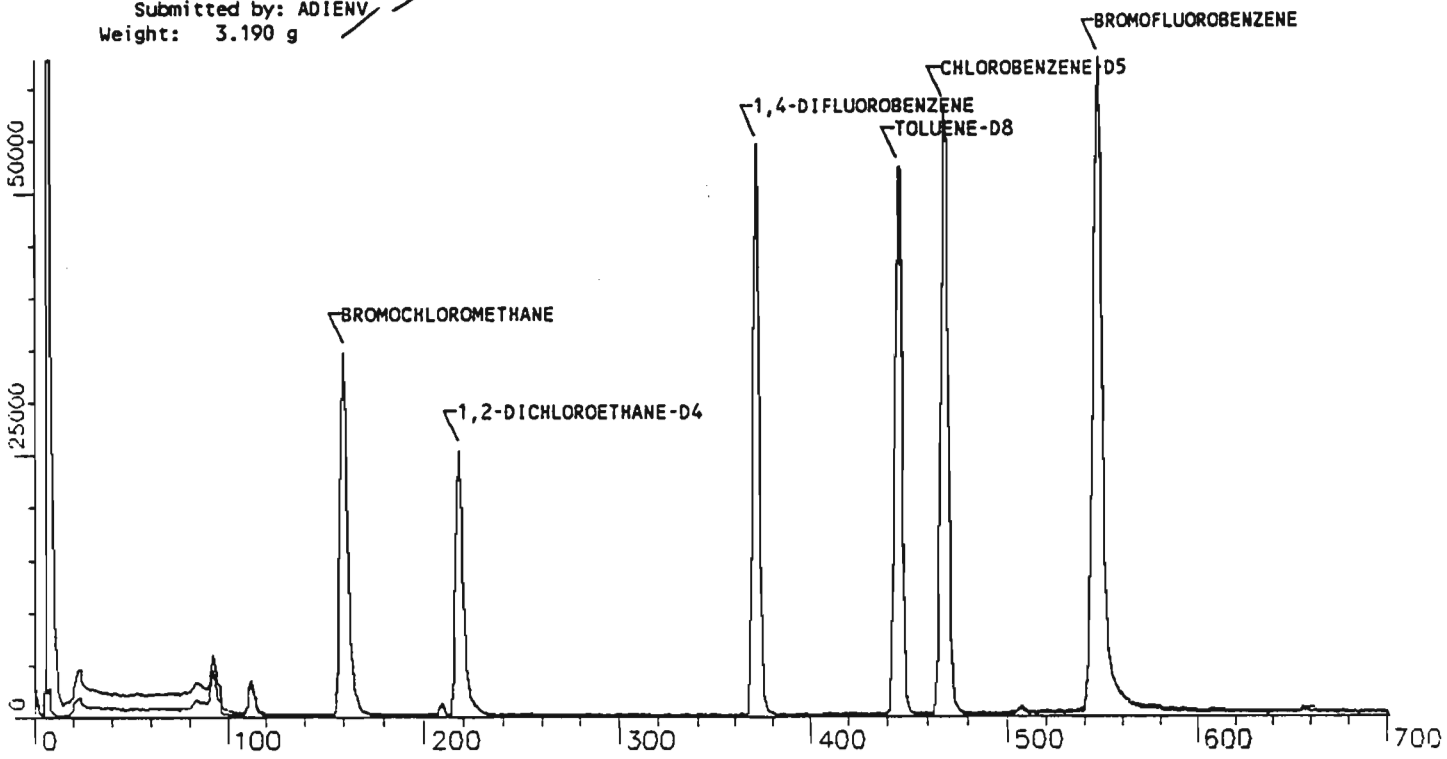
LIBRARYUM#7 CAS: 67-64-1 2-PROPANONE (C3H6O)



C1148201 2V 1

05/24/90 0703
OWAC -- KLK

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



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

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~~	~~23.30~~	~~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

C114820I2V 3

05/24/90 0703
OWAC -- KLK

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

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 5/24/90 7:39:56
DATA FILE: C114820I2V
REFERENCE: JTAB11
NAME LIST: UM INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: UMRET1

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

52 COMPOUNDS PROCESSED 10 FOUND

COMPOUND NO	LIB	ENTRY	SEARCH REF	PRED	SEL	DELTA	PEAKS	SAT FIT	PEAKS	CHRO M/Z	TOP	DELTA	PEAKS
1	UM	1	-158	160	160		1	978		128	160		1
2	UM	2	-13	30						30			
3	UM	3	-30	30						94			
4	UM	4	-40	40						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	293						63			
29	UM	27	-297	298						75			
30	UM	28	-309	310						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	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

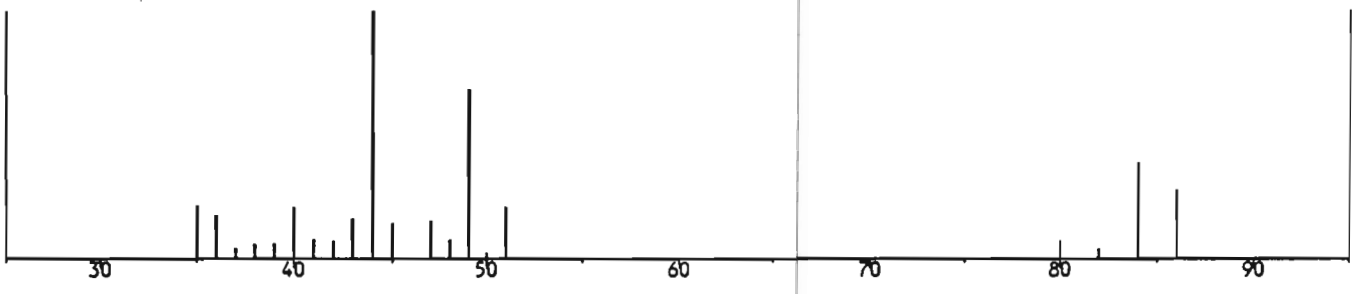
C114820I2V 6

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

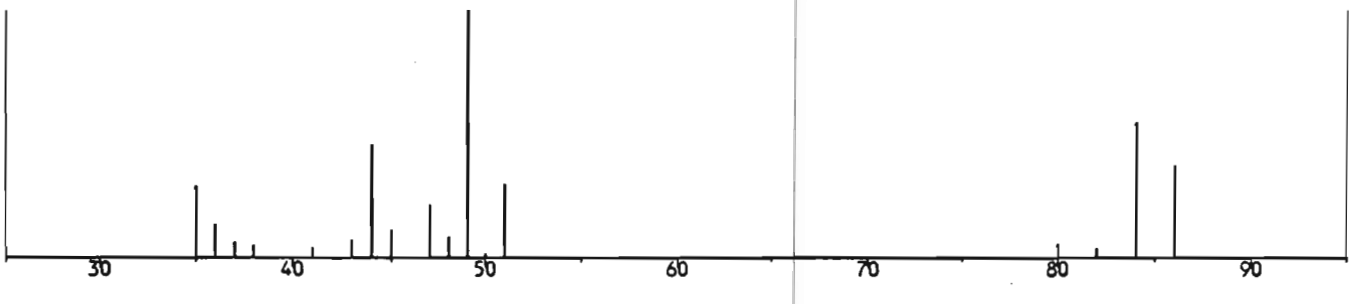
05/24/90 0703
OWAC -- KLK

LIBRARYUM#6 METHYLENE CHLORIDE

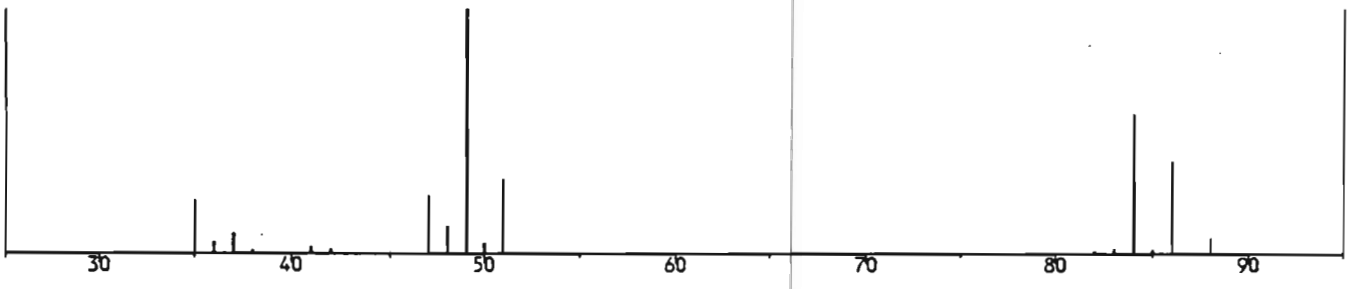
Unenhanced spectrum -- Scan # 92 ase m/z: 44 --- RIC: 5944. Max intensity: 1436



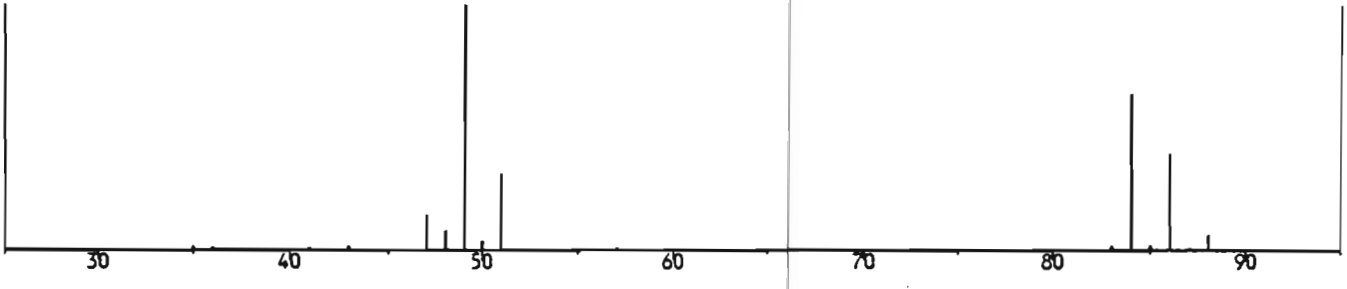
Enhanced (S 15B 2N 0T) -- Scan # 92 ase m/z: 49 --- RIC: 3748. Max intensity: 975



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



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



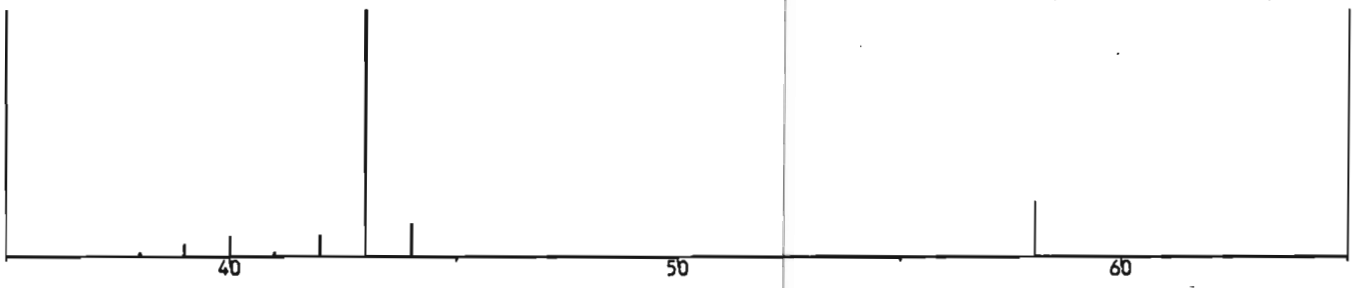
C114820I2V 7

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

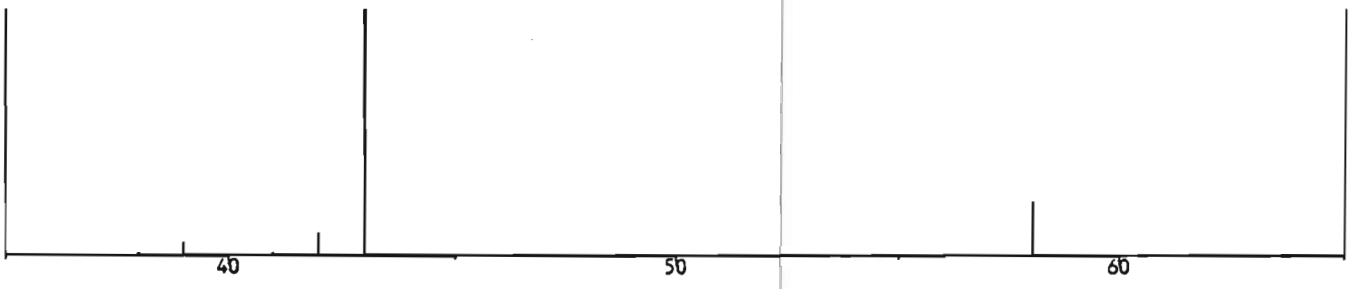
05/24/90 0703
OWAC -- KLK

LIBRARYUM#7 ACETONE

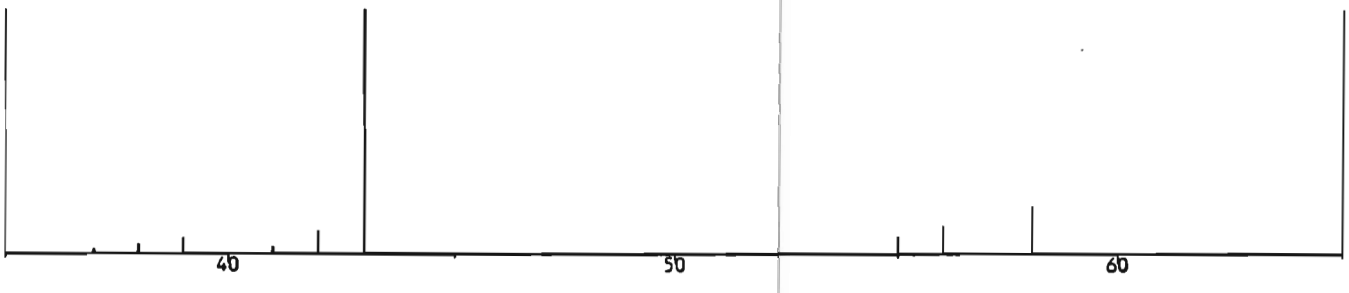
Unenhanced spectrum -- Scan # 112 ase m/z: 43 --- RIC: 3640. Max intensity: 2252



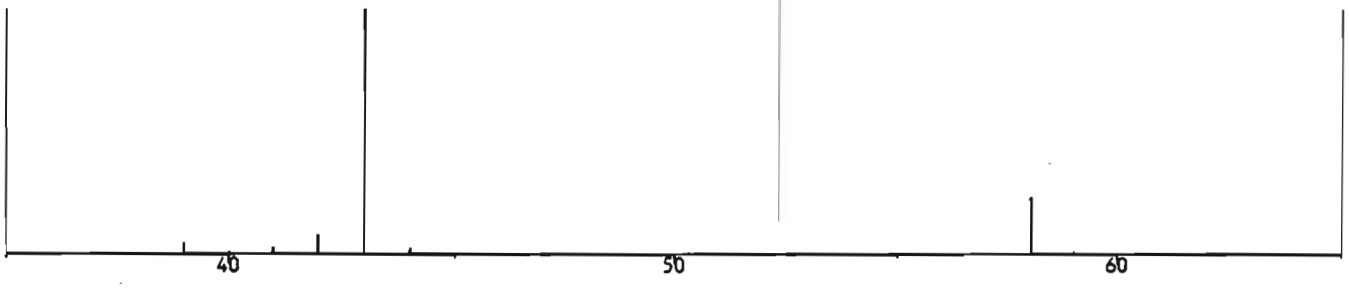
Enhanced (S 15B 2N 0T) -- Scan # 112 ase m/z: 43 --- RIC: 3016. Max intensity: 2184



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

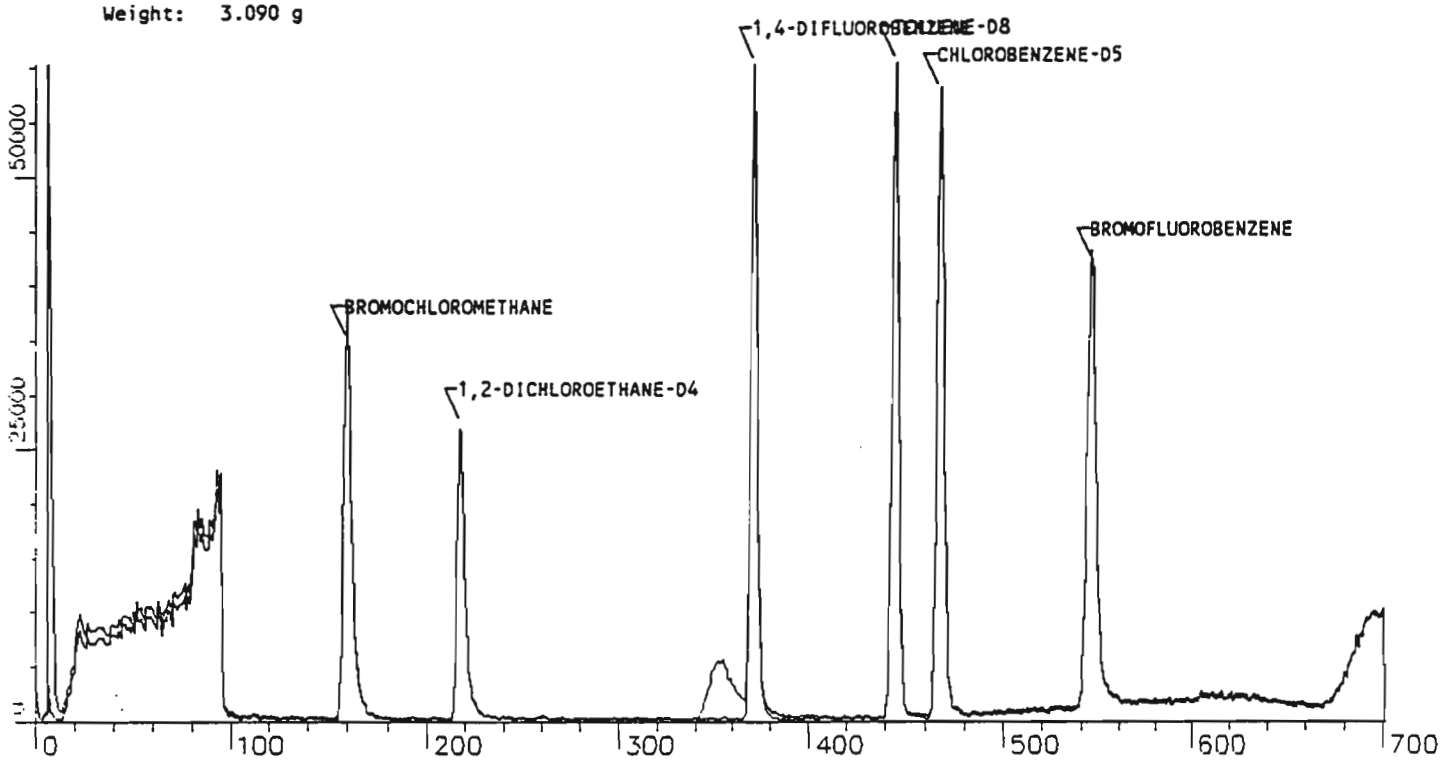


LIBRARYUM#7 CAS: 67-64-1 2-PROPANONE (C3H6O)



C114821V 1

Sample: L#114821 CLI#MW-11,5.5'-7.5' ETR#21422 3.09GRAMS
05/22/90 1431
Conditions: GC/MS OWAC
OWAC -- CMP
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	3.00	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 05/22/90 1431
Conditions: GC/MS OWAC OWAC -- CMP
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

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#4/6

background noise

6 TIC's for reporting

cip

PROCEDURE: TCA DIAGNOSTIC REPORT 5/22/90 15:12:47
DATA FILE: C114821V
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	72	452	UMRET1/UMUNK1
2	2	1	0	1	1	1	35	UMRET2/UMUNK2
2	2	1	0	1	1	1	0	UMRET2/UMUNK3
2	2	1	0	1	1	1	78	UMRET3/UMUNK4
1	1	1	0	1	1	1	209	UMRET4/UMUNK5

52 COMPOUNDS PROCESSED. 11 FOUND

COMPOUND			SEARCH				SAT	CHRO			
NO	LIB	ENTRY	REF	PRED	SRL	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		60			
3	UM	3	-30	30						94	48		1
4	UM	4	-40	37	60	3	3	1000		62	60		1
5	UM	5	-55	55	54	-1	6	989		54			
6	UM	6	-89	90	92	-6	1	983		84	92		1
7	UM	7	-113	113						43			
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	151						96			
13	UM	53	-144	144						45			
14	UM	13	-371	371	371		1	1000		114	371		1
15	UM	51	-160	160						55			
16	UM	14	-176	176						60			
17	UM	15	-180	180						71			
18	UM	16	-193	193						96			
19	UM	17	-202	202						83			
20	UM	18	-219	220						62			
21	UM	19	-217	218	218		1	1000		65	217	-1	1
22	UM	20	-224	225						72			
23	UM	21	-210	211						101			
24	UM	22	-242	243						97			
25	UM	23	-250	250						117			
26	UM	24	-262	263						43			
27	UM	25	-262	263						80			
28	UM	26	-291	292						60			
29	UM	27	-297	298						75			
30	UM	28	-309	310						130			
31	UM	29	-316	317						129			
32	UM	30	-365	366						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	467		1	994		117	467		1
39	UM	37	-384	384						43			
40	UM	38	-416	416						43			
41	UM	39	-415	415						80			
42	UM	40	-421	421						164			
43	UM	41	-438	438						56			
44	UM	42	-444	444	445	1	1	990		98	445		1
45	UM	43	-448	448						92	450		1
46	UM	44	-469	470						112			
47	UM	45	-506	507						106			
48	UM	46	-545	547	545	-2	1	990		95	546	1	1
49	UM	47	-569	571	572	1	1	507		104			
50	UM	48	-575	577						106			
51	UM	49	-589	591						106			
52	UM	50	-653	656						146			

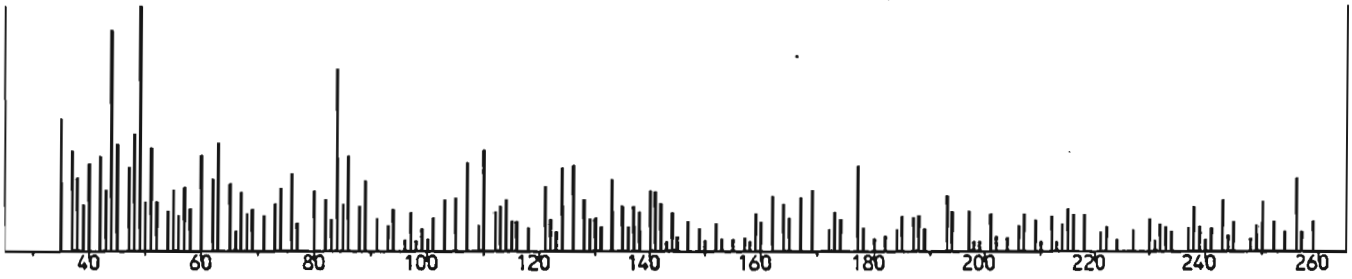
C114821V 7

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

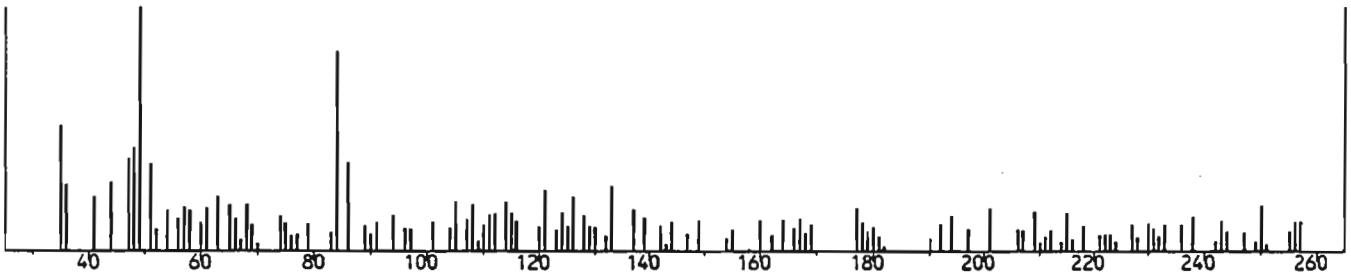
05/22/90 1431
OWAC -- CMP

LIBRARYUM#6 METHYLENE CHLORIDE

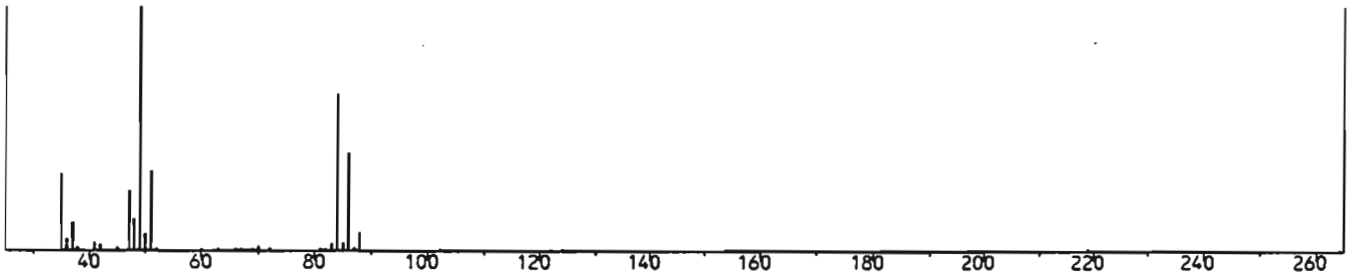
Unenhanced spectrum -- Scan # 92 Base m/z: 49 --- RIC: 21312. Max intensity: 762



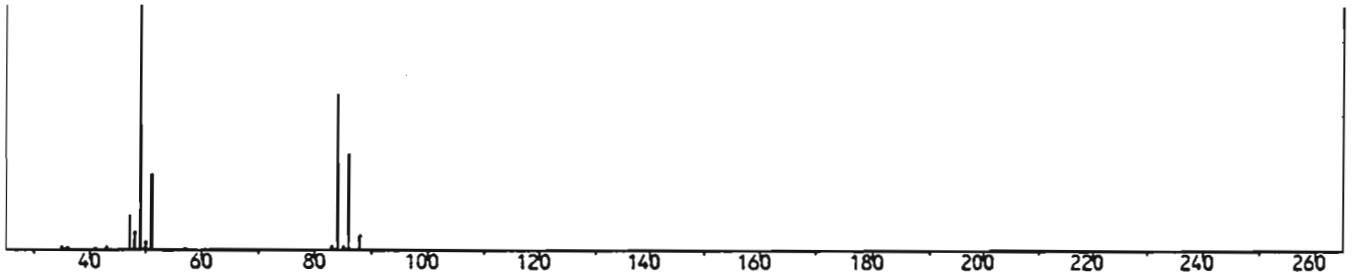
Enhanced (S 15B 2N 0T) -- Scan # 92 Base m/z: 49 --- RIC: 10656. Max intensity: 640



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

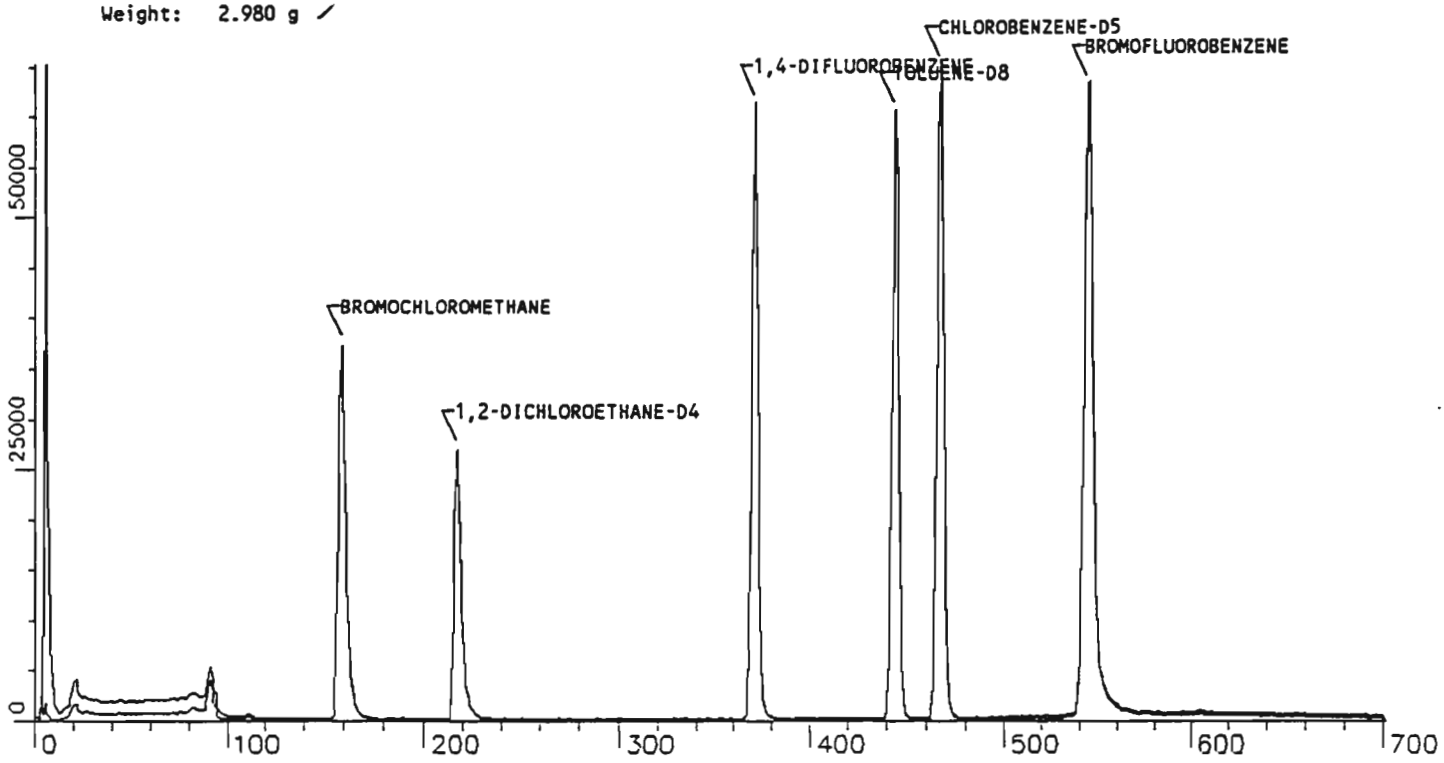


LIBRARYUM#6 CAS: 75-09-2 METHANE, DICHLORO- (CH2Cl2)



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

05/24/90 0852
OWAC -- SPS

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

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	0.005	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: C1148232V
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	2	2	1	57	UMRET2/UMUNK2
2	2	1	0	3	3	1	0	UMRET2/UMUNK3
2	1	1	0	4	2	1	0	UMRET3/UMUNK4
1	1	1	0	5	2	1	0	UMRET4/UMUNK5

52 COMPOUNDS PROCESSED: 6 FOUND

COMPOUND ><			- SEARCH					>< SAT ><		- CHRO			
NO	LIB	ENTRY	REF	PRED	SEL	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	145						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			

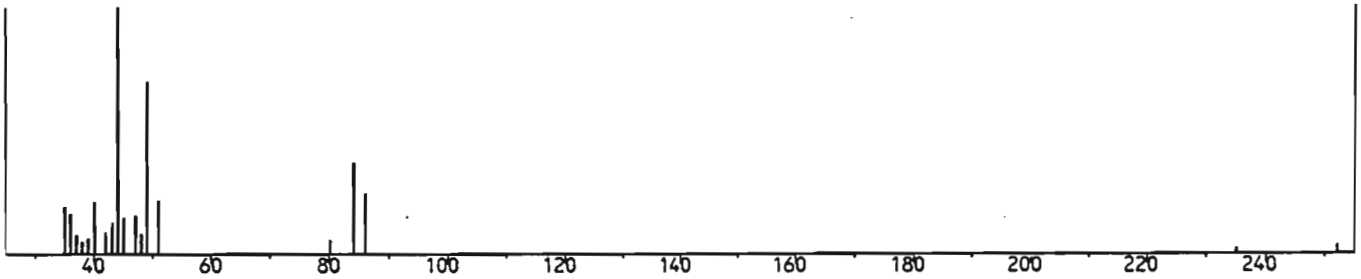
C114822V 6

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

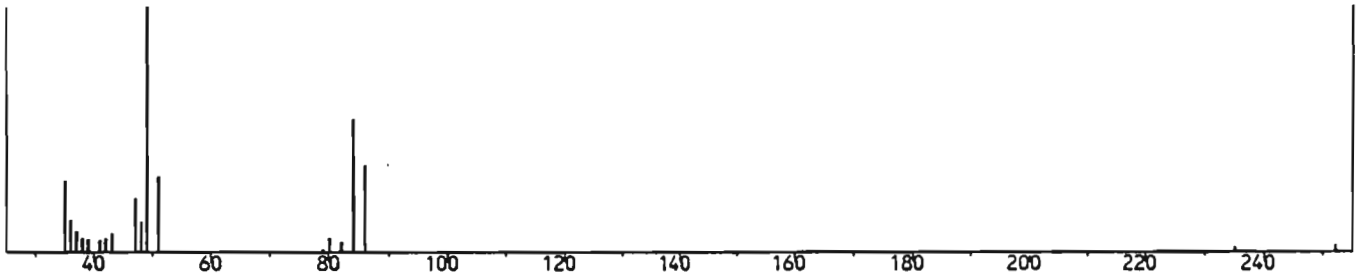
05/24/90 0852
OWAC -- SPS

LIBRARYUM#6 METHYLENE CHLORIDE

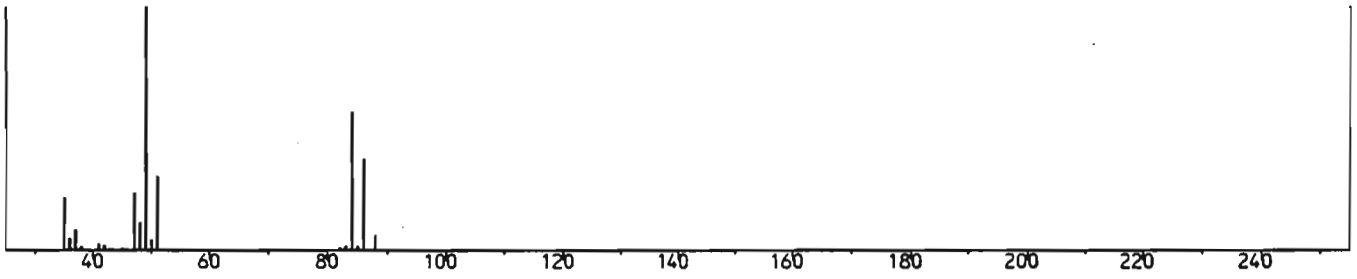
Unenhanced spectrum -- Scan # 91 Base m/z: 44 --- RIC: 5496. Max intensity: 1380



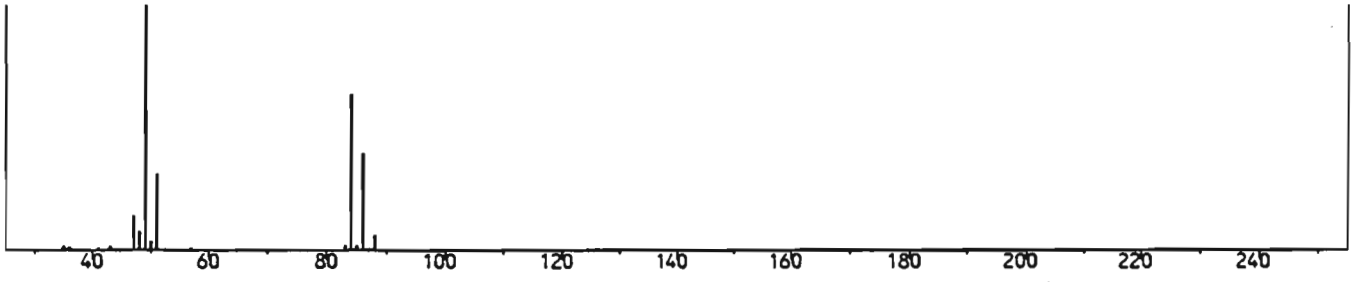
Enhanced (S 15B 2N 0T) -- Scan # 91 Base m/z: 49 --- RIC: 3216. Max intensity: 919



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

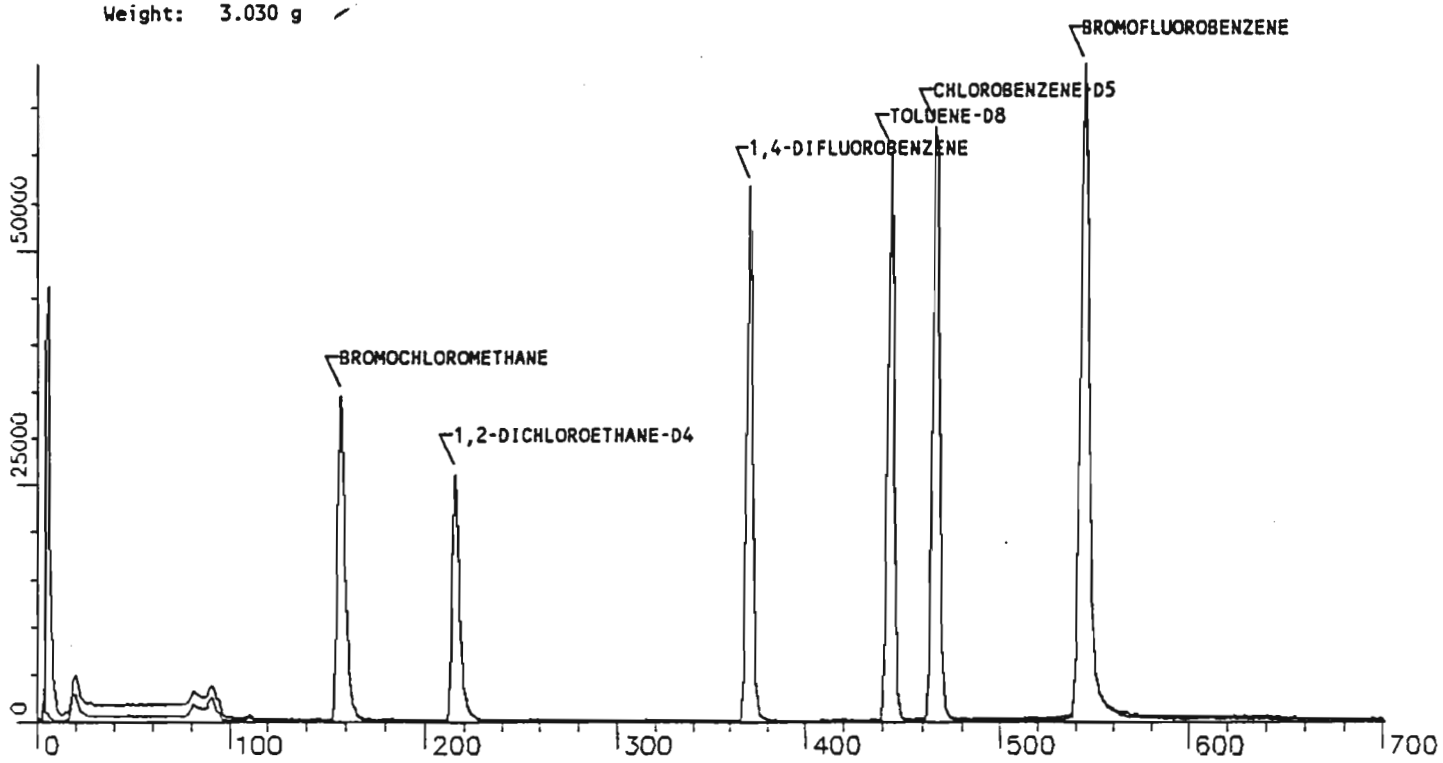


LIBRARYUM#6 CAS: 75-09-2 METHANE, DICHLORO- (CH2Cl2)



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

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	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	0.629	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

ØNDs for reporting
Cyp

PROCEDURE: TCA DIAGNOSTIC REPORT 5/24/90 11:19:33
DATA FILE: C114877V
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	13	[illegible]	1	0	UMRET1/UMUNK1
2	2	1	0	14	[illegible]	1	79	UMRET2/UMUNK2
2	2	1	0	13	[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, 6 FOUND

COMPOUND			><	----------	SEARCH	----------			>< SAT ><	------	CHRO	------- >
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	UM	1	-153	157	157		1	981	.	128	157	.	1
2	UM	2	-18	[illegible]		.	.	.	.	50	19	.	1
3	UM	3	-30	[illegible]		.	.	.	.	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		.	.	.	.	49	.	.	.
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	462		.	.	.	.	112	463	.	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	.	.	.

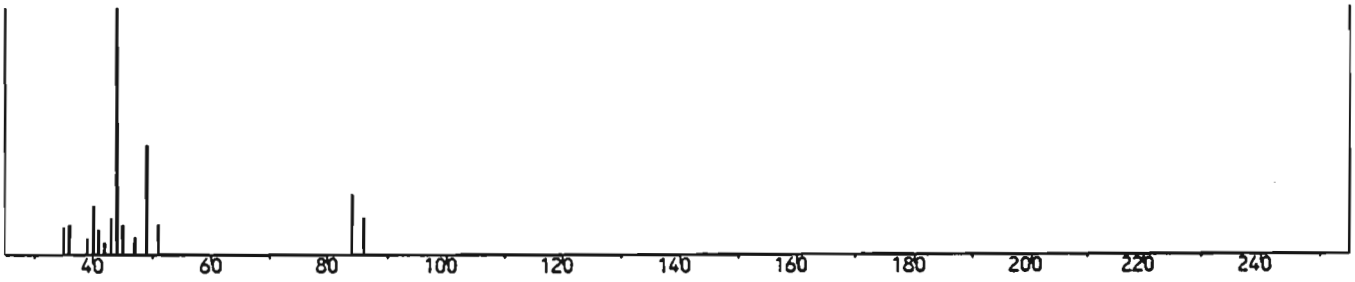
C114877V 6

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

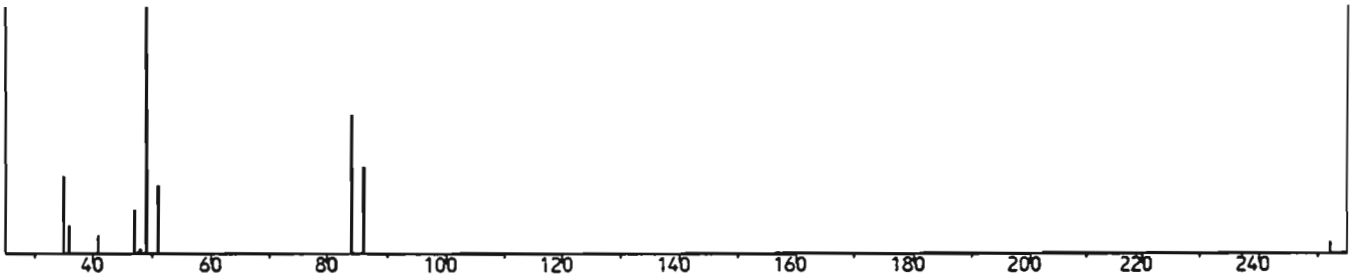
05/24/90 1045
OWAC -- SPS

LIBRARYUM#6 METHYLENE CHLORIDE

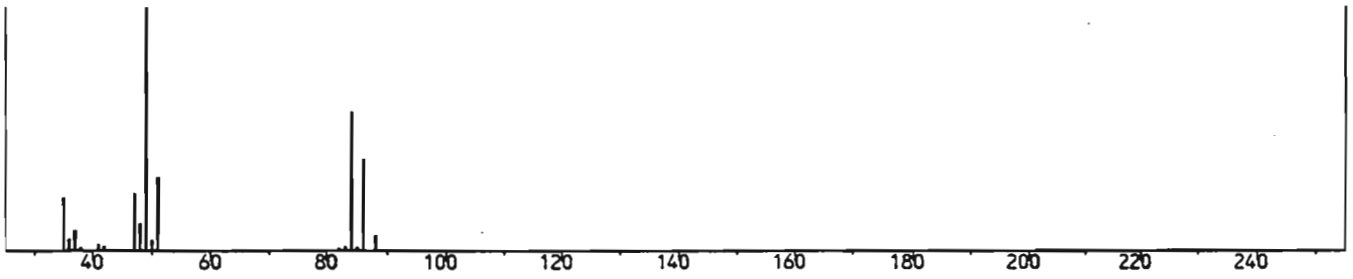
Unenhanced spectrum -- Scan # 90 Base m/z: 44 --- RIC: 3868. Max intensity: 1316



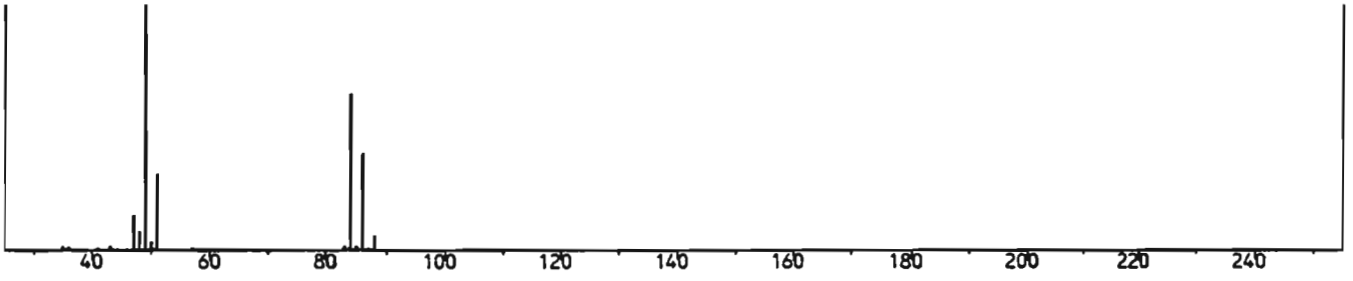
Enhanced (S 15B 2N 0T) -- Scan # 90 Base m/z: 49 --- RIC: 1614. Max intensity: 554



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



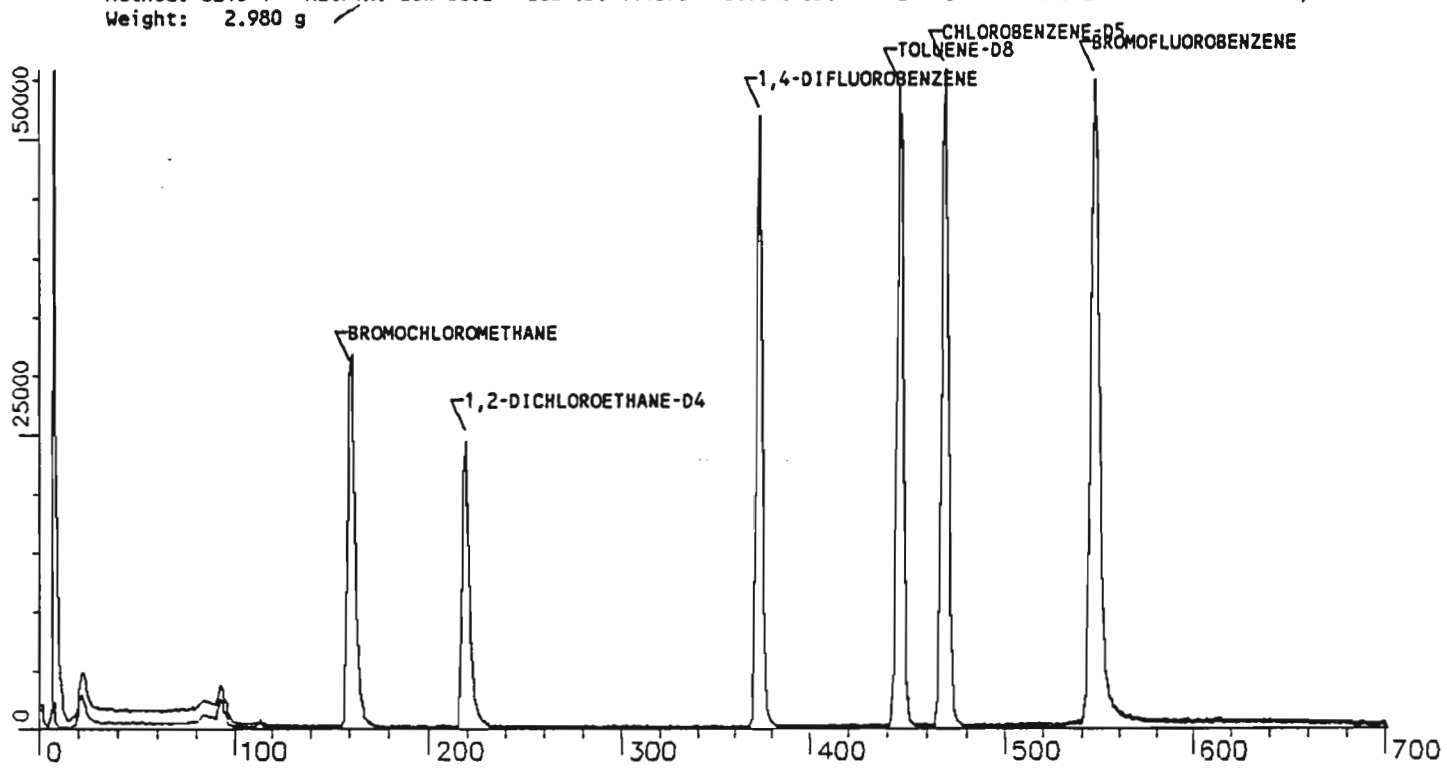
LIBRARYUM#6 CAS: 75-09-2 METHANE, DICHLORO- (CH2Cl2)



C114878V 1

Sample: L#114878 CLI#MW-12 18'-20' ETR#21436 2.98G
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
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: C1148789
REFERENCE: JTAB11
NAME LIST: UM INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: UMRET1

STANDARDS PROC	USED	POSS	RMS	PLUS UNKNOWNS PROC	USED	POSS	RMS	LIST NAMES - STANDARD/UNKNOWN
1	1	1	0	1	1	1	202	UMRET1/UMUNK1
2	2	1	0	2	2	1	37	UMRET2/UMUNK2
2	2	1	0	2	2	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	M/Z	CHRO TOP	DELTA	PEAKS
1	UM	1	-158	161	161	.	1	980	.	128	160	-1	1
2	UM	2	-18	20	.	.	.	.	.	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	.	.	.
53	UM	53	-144	148	.	.	.	.	.	45	.	.	.
13	UM	13	-371	375	373	.	1	996	.	114	373	.	1
51	UM	51	-160	163	.	.	.	.	.	55	.	.	.
14	UM	14	-176	179	.	.	.	.	.	63	.	.	.
15	UM	15	-180	183	.	.	.	.	.	71	.	.	.
16	UM	16	-193	196	.	.	.	.	.	96	.	.	.
17	UM	17	-202	205	.	.	.	.	.	83	.	.	.
18	UM	18	-219	221	.	.	.	.	.	62	.	.	.
19	UM	19	-217	219	219	.	1	996	.	65	219	.	1
20	UM	20	-224	226	.	.	.	.	.	72	.	.	.
21	UM	21	-210	213	.	.	.	.	.	101	.	.	.
22	UM	22	-242	244	.	.	.	.	.	97	.	.	.
23	UM	23	-250	251	.	.	.	.	.	117	.	.	.
24	UM	24	-262	264	.	.	.	.	.	43	.	.	.
25	UM	25	-262	266	.	.	.	.	.	83	.	.	.
26	UM	26	-291	293	.	.	.	.	.	63	.	.	.
27	UM	27	-297	299	.	.	.	.	.	75	.	.	.
28	UM	28	-309	311	.	.	.	.	.	130	.	.	.
29	UM	29	-316	318	.	.	.	.	.	129	.	.	.
30	UM	30	-365	367	.	.	.	.	.	98	.	.	.
31	UM	31	-320	321	.	.	.	.	.	97	.	.	.
32	UM	32	-320	322	.	.	.	.	.	78	.	.	.
33	UM	33	-322	324	.	.	.	.	.	75	.	.	.
34	UM	34	-345	347	.	.	.	.	.	63	.	.	.
35	UM	35	-369	371	.	.	.	.	.	173	.	.	.
36	UM	36	-467	470	.	.	.	.	.	117	469	.	1
37	UM	37	-384	386	.	.	.	.	.	43	.	.	.
38	UM	38	-416	418	.	.	.	.	.	43	.	.	.
39	UM	39	-415	417	.	.	.	.	.	83	.	.	.
40	UM	40	-421	423	.	.	.	.	.	164	.	.	.
41	UM	41	-438	440	.	.	.	.	.	56	.	.	.
42	UM	42	-444	446	446	.	1	995	.	98	446	.	1
43	UM	43	-448	450	.	.	.	.	.	92	.	.	.
44	UM	44	-469	471	.	.	.	.	.	112	.	.	.
45	UM	45	-506	508	.	.	.	.	.	106	.	.	.
46	UM	46	-545	547	547	.	1	998	.	95	547	.	1
47	UM	47	-569	571	.	.	.	.	.	104	.	.	.
48	UM	48	-575	577	.	.	.	.	.	106	.	.	.
49	UM	49	-589	591	.	.	.	.	.	106	.	.	.
50	UM	50	-653	655	.	.	.	.	.	146	.	.	.

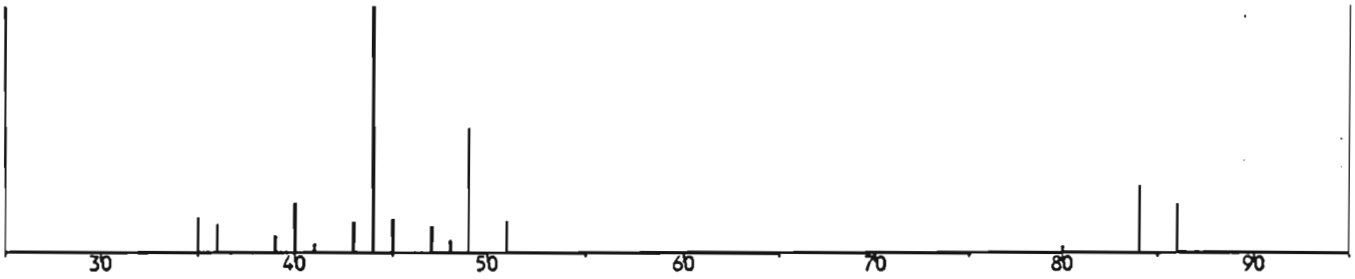
C114878V 6

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

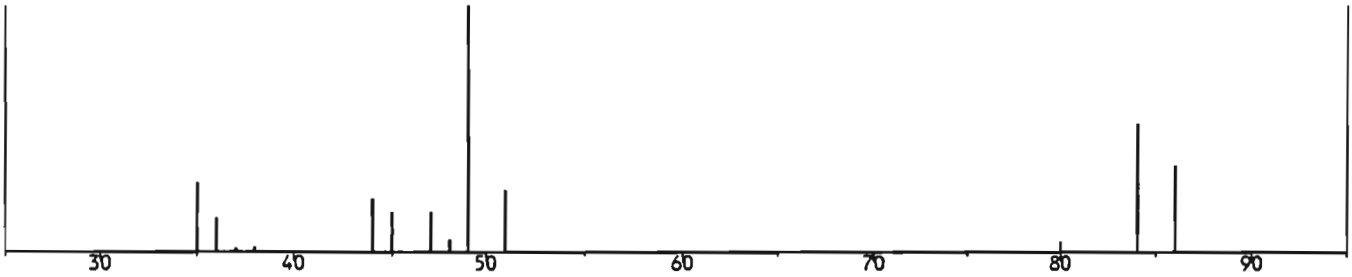
05/24/90 1134
OWAC -- SPS

LIBRARYUM#6 METHYLENE CHLORIDE

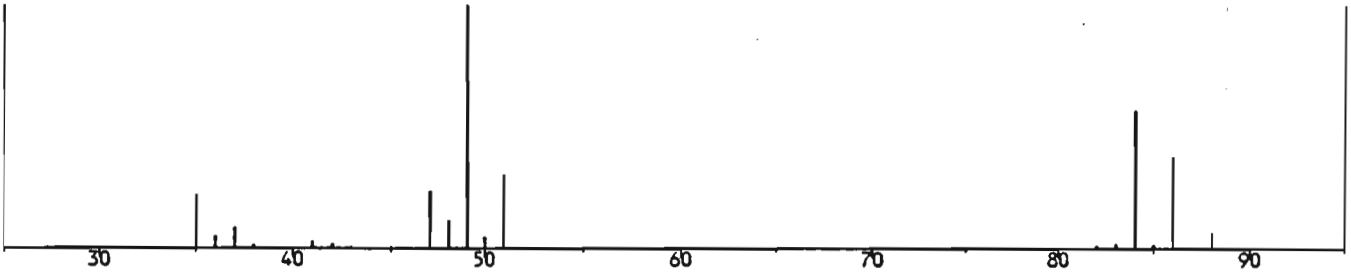
Unenhanced spectrum -- Scan # 93 Base m/z: 44 --- RIC: 3752. Max intensity: 1206



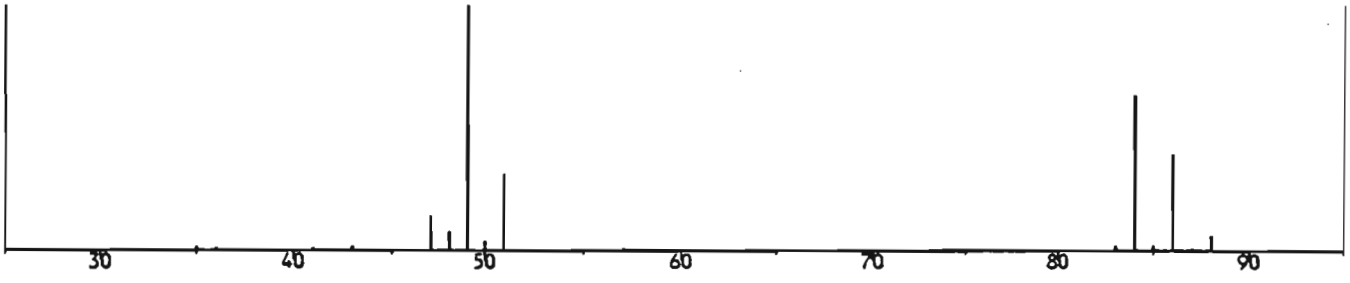
Enhanced (S 15B 2N 0T) -- Scan # 93 Base m/z: 49 --- RIC: 1934. Max intensity: 604



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



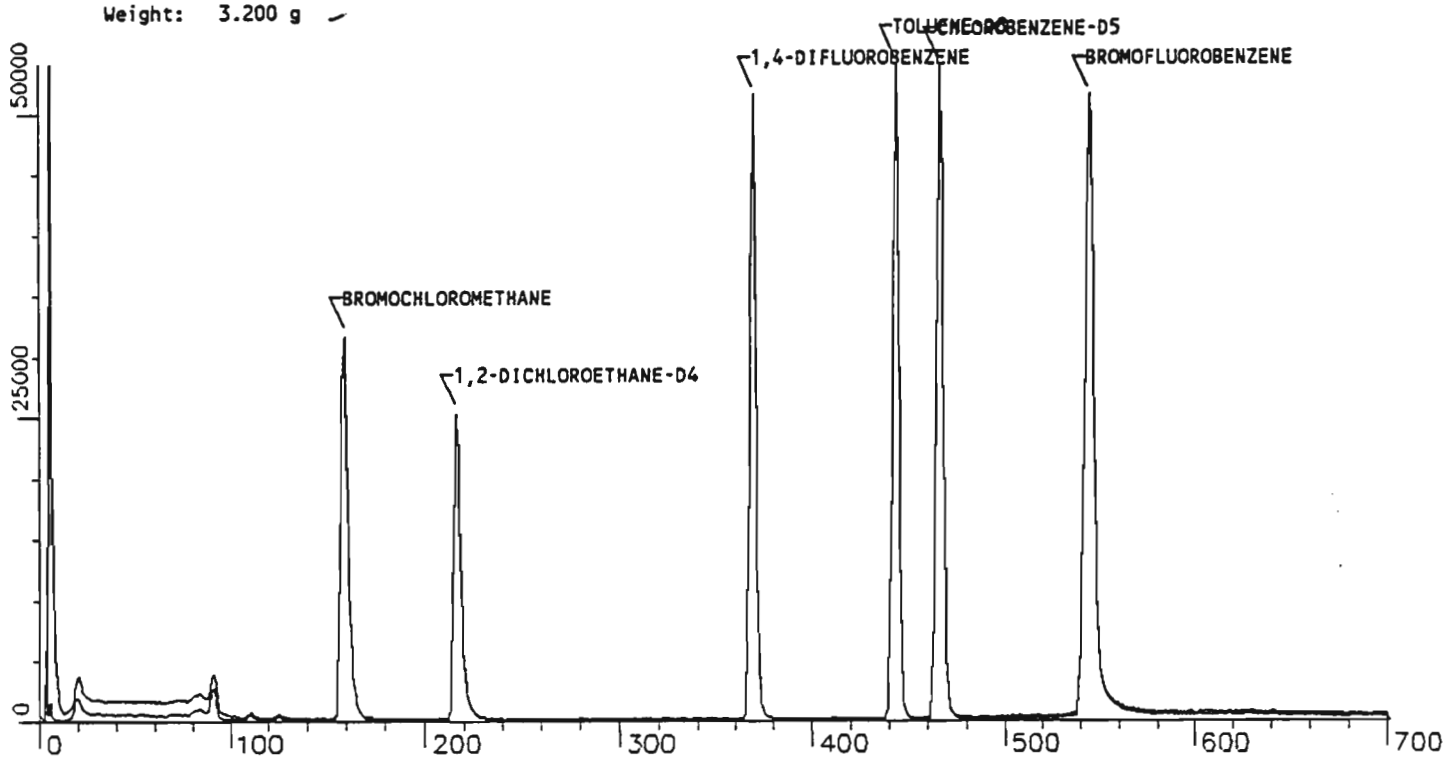
LIBRARYUM#6 CAS: 75-09-2 METHANE, DICHLORO- (CH2Cl2)



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
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

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

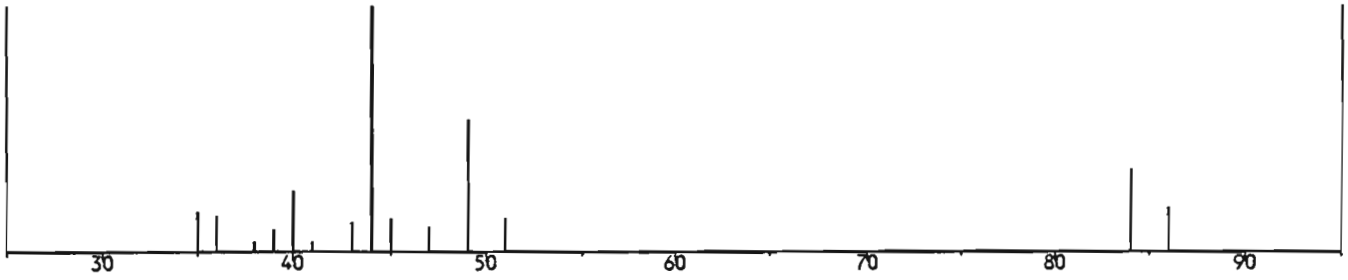
C114879V 6

05/24/90 1238
OWAC -- CMP

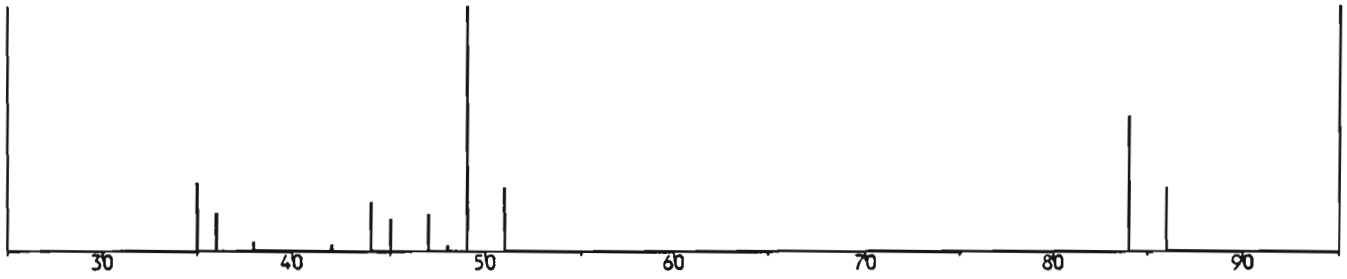
Sample: L#114879 CLI#MW-13,34-34.5 ETR#21436 3.20GRAMS
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114879 Client ID: MW-13,34-34.5 ETR Number: 21436 Submitted by: ADIENV
Weight: 3.200 g

LIBRARYUM#6 METHYLENE CHLORIDE

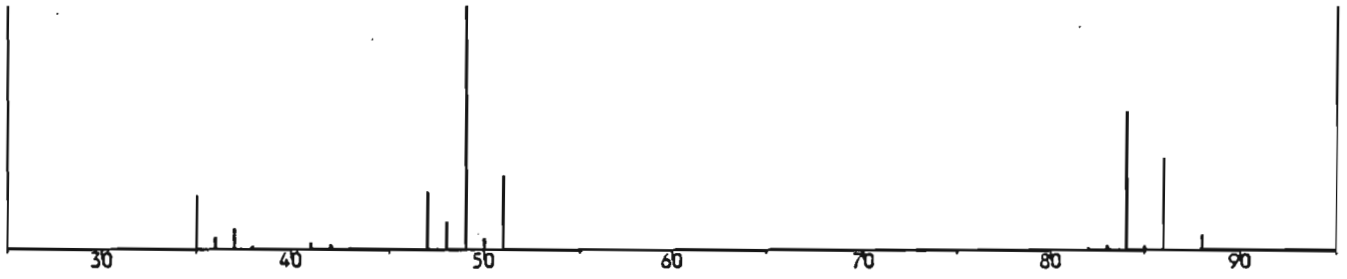
Unenhanced spectrum -- Scan # 90 Base m/z: 44 --- RIC: 3744. Max intensity: 1148



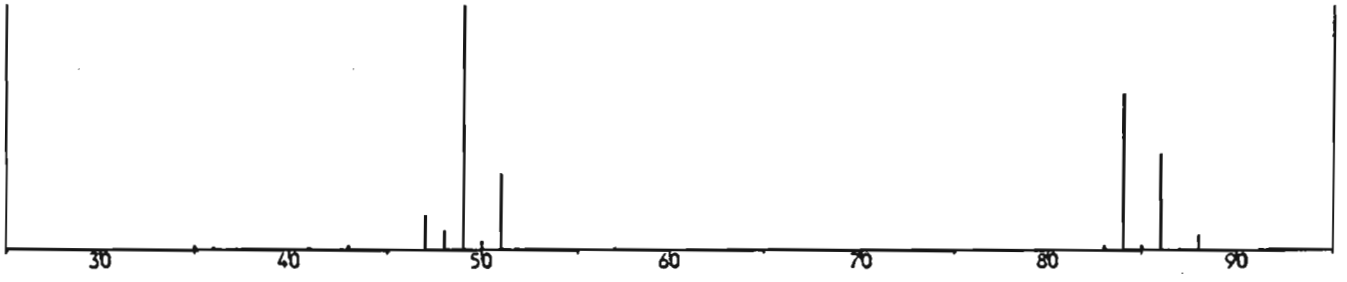
Enhanced (S 158 2N 0T) -- Scan # 90 Base m/z: 49 --- RIC: 1932. Max intensity: 623



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: C11487PV
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	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

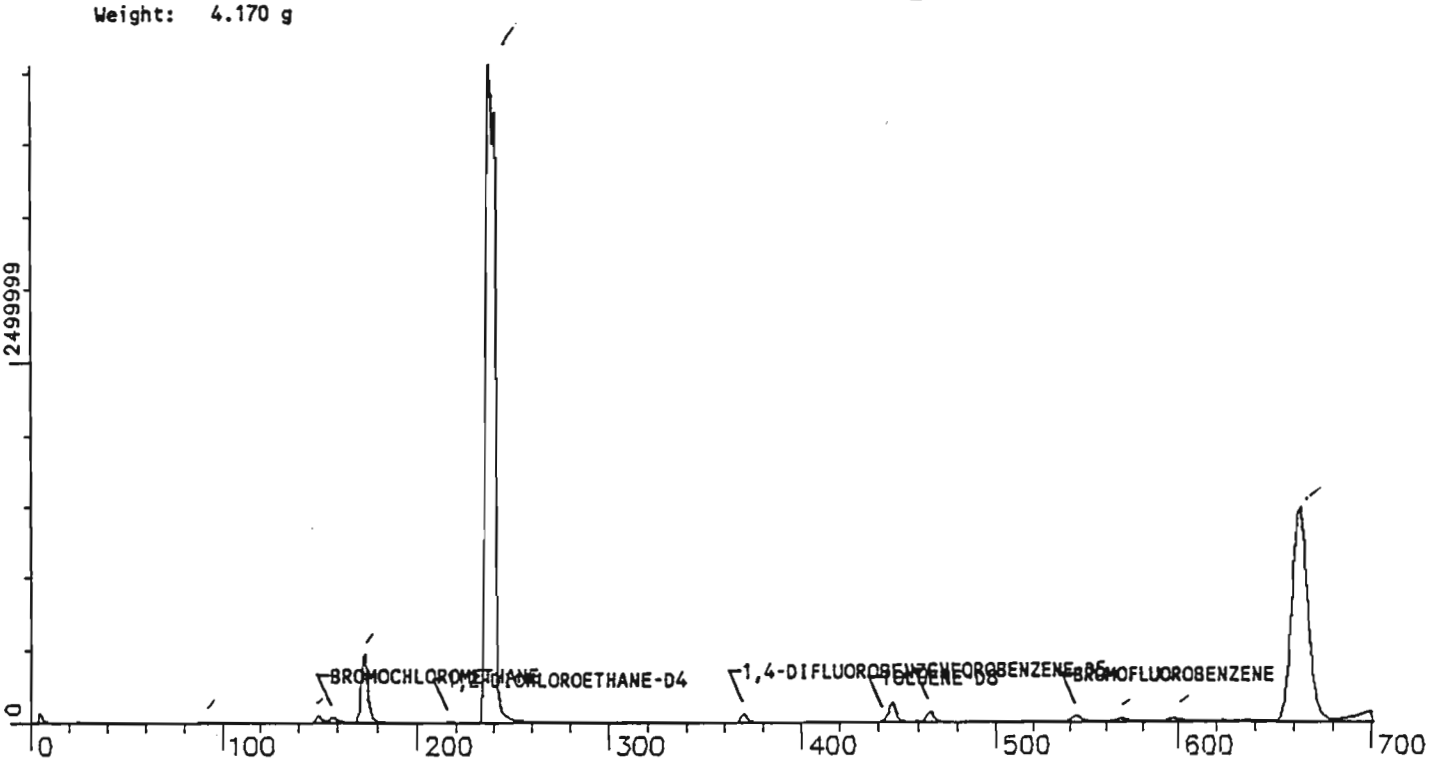
52 COMPOUNDS PROCESSED: 8 FOUND

COMPOUND			SEARCH					SAT	CHRO			
NO	LIB	ENTRY	RFF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	UM	1	-158	158	158		1	978		128	159		1
2	UM	2	-18	18						50			
3	UM	3	-30	30						94			
4	UM	4	-40	40						62			
5	UM	5	-55	55						64			
6	UM	6	-89	90	91	-1	1	996		84	90	-1	1
7	UM	7	-113	113						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	134						101			
12	UM	12	-151	150						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						93			
17	UM	15	-180	180						71			
18	UM	16	-193	193						96			
19	UM	17	-202	202						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	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						88			
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
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
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
106.46

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

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~~	~~2040380.~~	~~1987.040 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
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	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	1.00	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 needed sig fig

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	1103740	1078.4	36	unknown dichlorobenzene 510,000 J

3 TIC's for reporting

cp

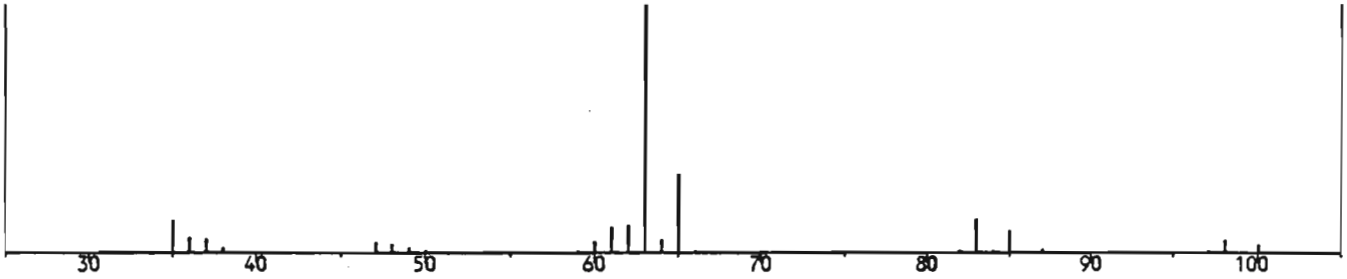
C114880EV$_{10}$

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

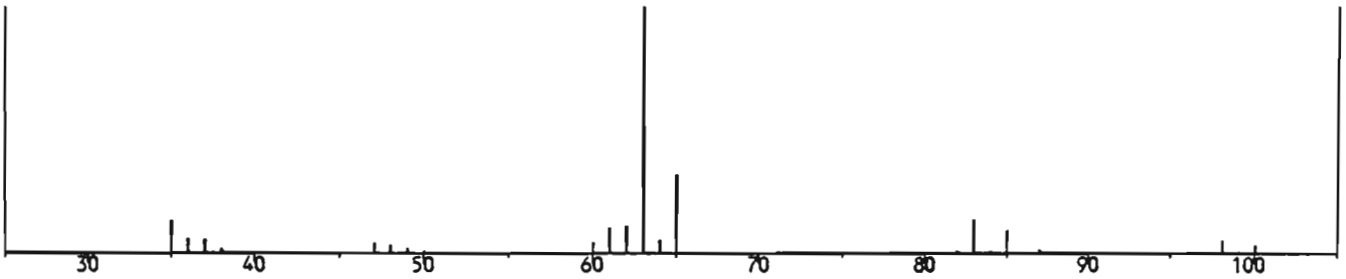
05/24/90 2243
OWAC -- CMS

LIBRARYUM#14 1,1-DICHLOROETHANE

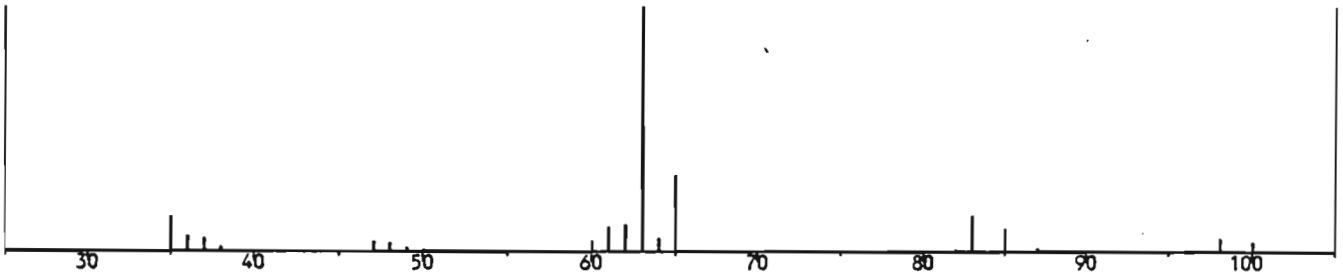
Unenhanced spectrum -- Scan # 174 Base m/z: 63 --- RIC: 468992. Max intensity: 196608



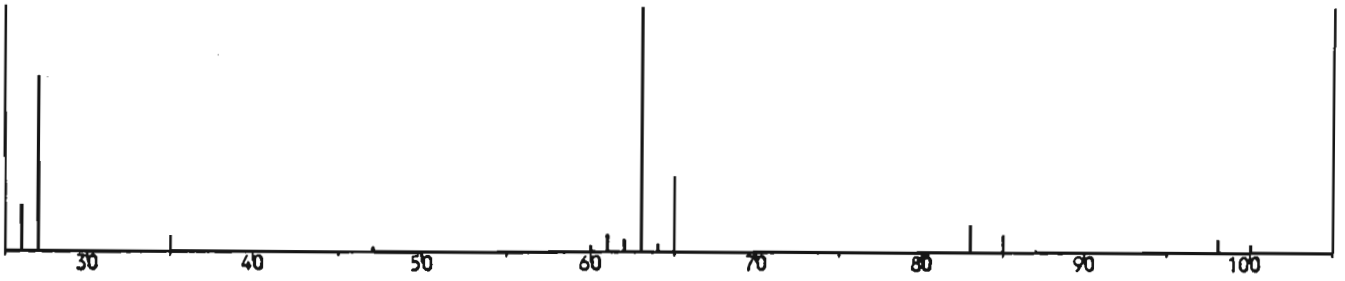
Enhanced (S 15B 2N 0T) -- Scan # 174 Base m/z: 63 --- RIC: 450560. Max intensity: 188672



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



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

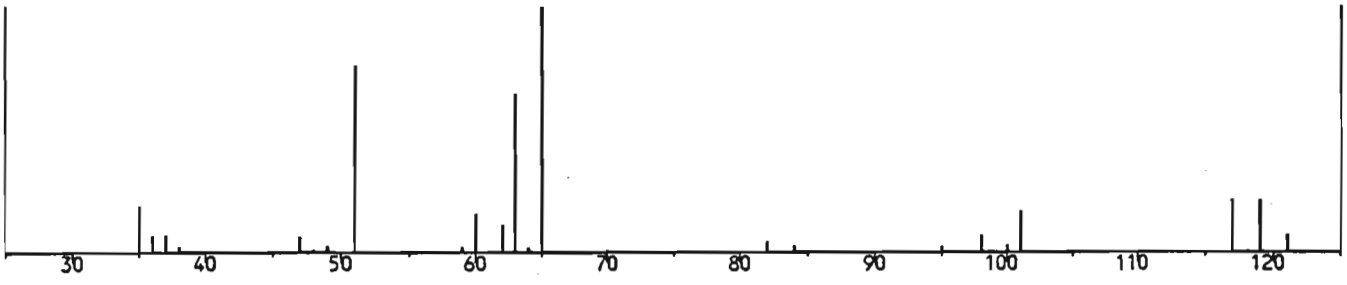


Sample: L#114880 CLI#SEPTIC_SLUDGE ETR#21436 4.17G/10ML->25UL/5ML
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: MED SOIL Lab ID: 114880 Client ID: SEPTIC_SLUDGE ETR Number: 21436 Submitted by: ADIENV
Weight: 4.170 g

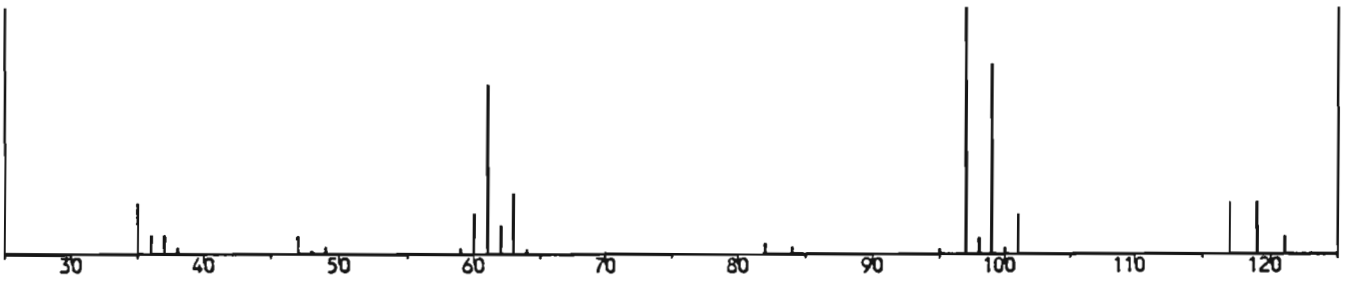
05/24/90 2243
OWAC -- CMS

LIBRARYUM#22 1,1,1-TRICHLOROETHANE

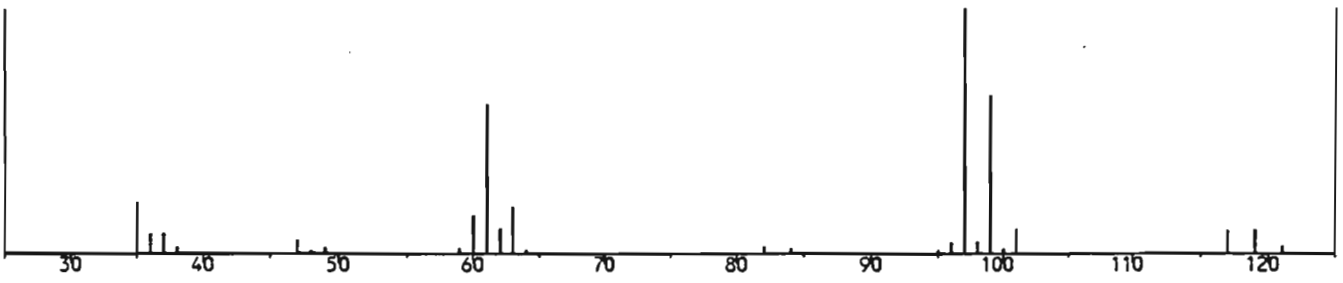
Unenhanced spectrum -- Scan # 240 Base m/z: 97 --- RIC: 4218870. Max intensity: 974848



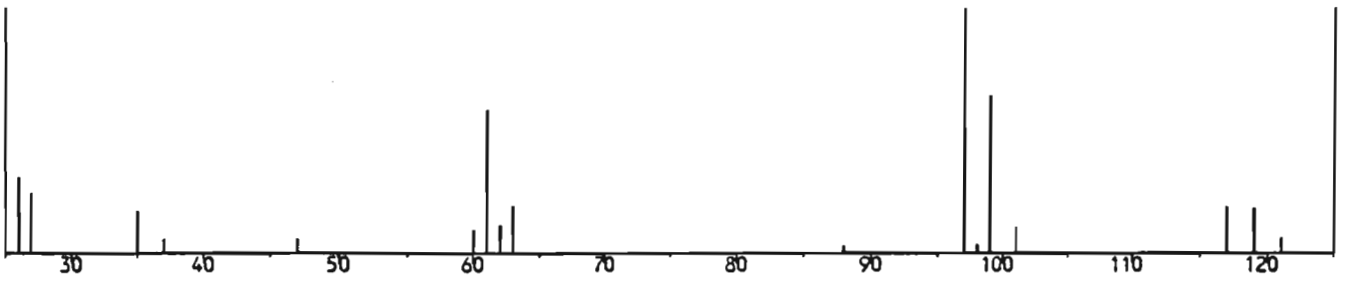
Enhanced (S 15B 2N 0T) -- Scan # 240 Base m/z: 97 --- RIC: 4276220. Max intensity: 964608



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



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

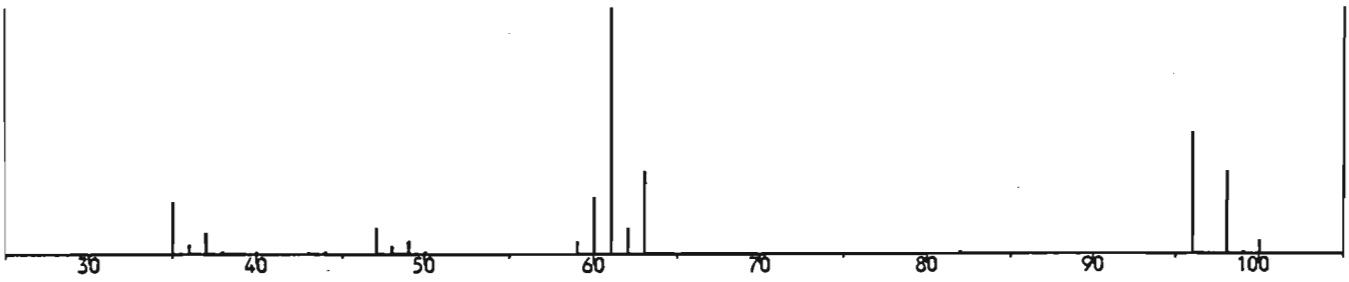


Sample: L#114880 CLI#SEPTIC_SLUDGE ETR#21436 4.17G/10ML->25UL/5ML
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: MED SOIL Lab ID: 114880 Client ID: SEPTIC_SLUDGE ETR Number: 21436 Submitted by: ADIENV
Weight: 4.170 g

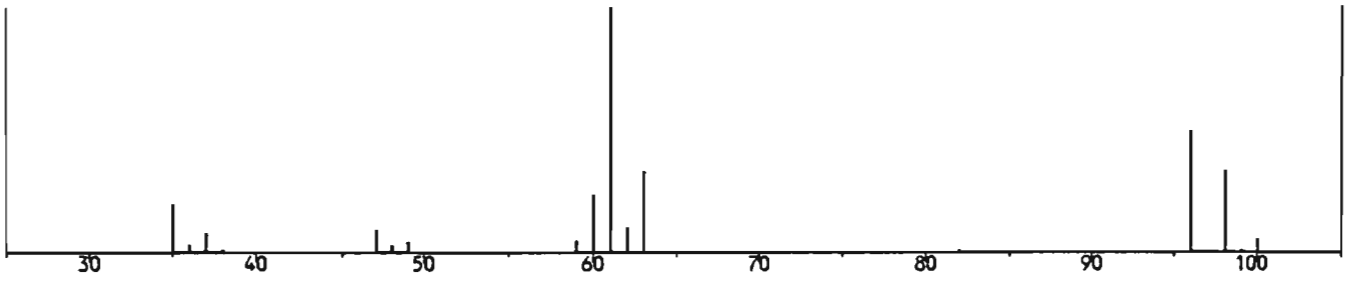
05/24/90 2243
OWAC -- CMS

LIBRARYUM#12 1,1-DICHLOROETHENE

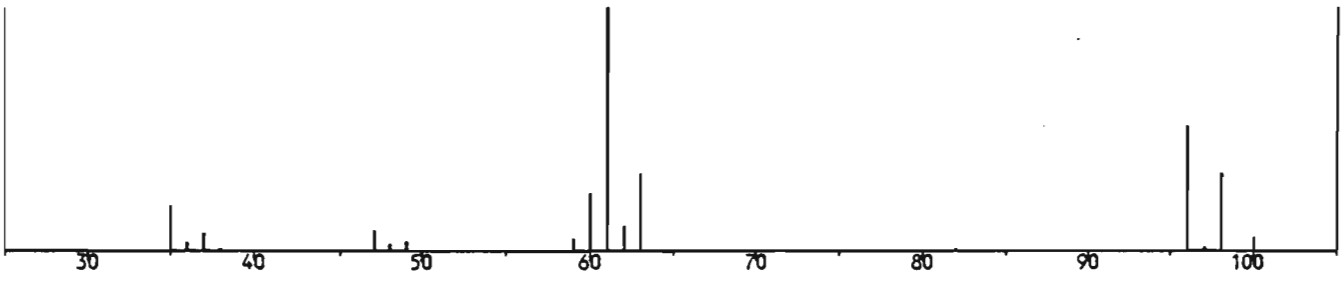
Unenhanced spectrum -- Scan # 150 Base m/z: 61 --- RIC: 49600. Max intensity: 15504



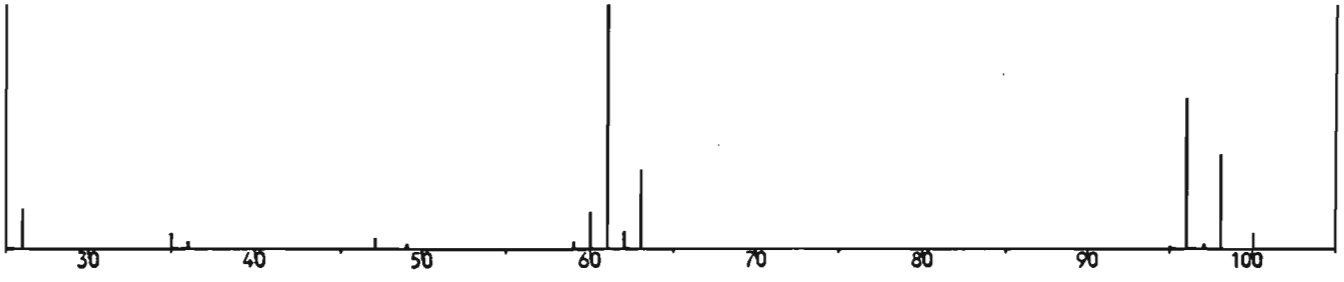
Enhanced (S 15B 2N 0T) -- Scan # 150 Base m/z: 61 --- RIC: 45952. Max intensity: 14896



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



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

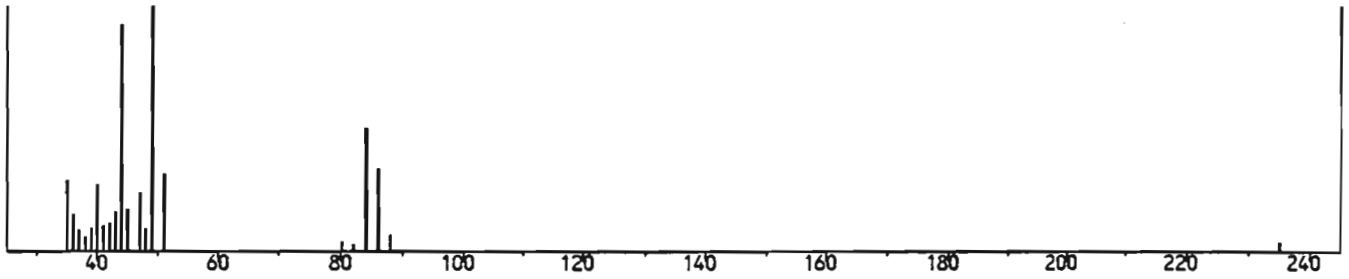


Sample: L#114880 CLI#SEPTIC_SLUDGE ETR#21436 4.17G/10ML->25UL/5ML
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: MED SOIL Lab ID: 114880 Client ID: SEPTIC_SLUDGE ETR Number: 21436 Submitted by: ADIENV
Weight: 4.170 g

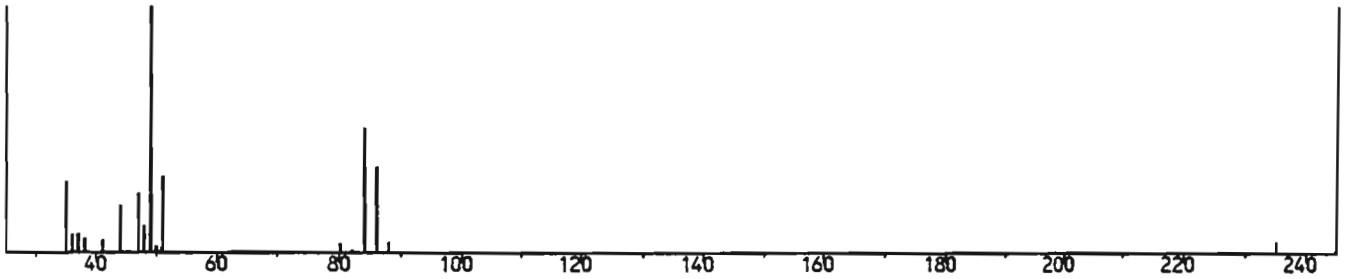
05/24/90 2243
OWAC -- CMS

LIBRARYUM#6 METHYLENE CHLORIDE

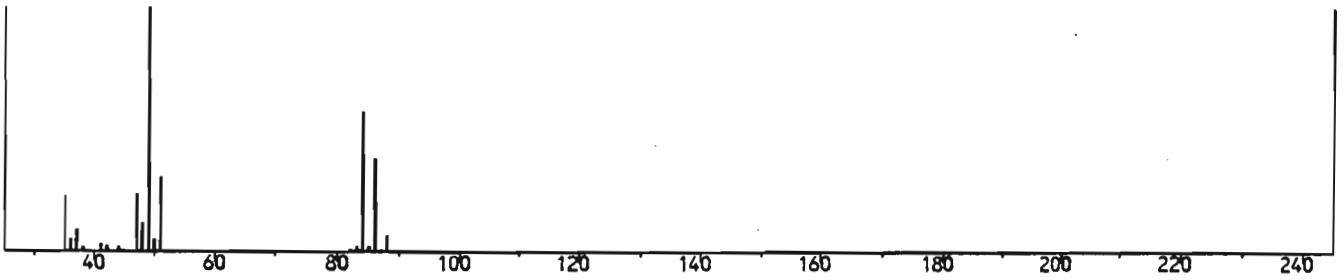
Unenhanced spectrum -- Scan # 90 Base m/z: 49 --- RIC: 6064. Max intensity: 1188



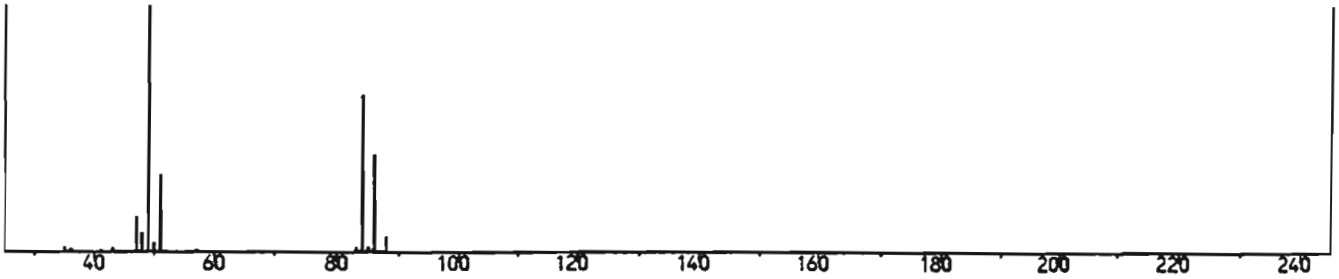
Enhanced (S 15B 2N 0T) -- Scan # 90 Base m/z: 49 --- RIC: 3944. Max intensity: 1154



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



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



47	UM	45	-535	537	.	.	.	.	.	105	.	.	.
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

PROCEDURE: TCA DIAGNOSTIC REPORT 5/25/90 9:34:10
DATA FILE: C114880EV
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	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			SEARCH					SAT		CHRO			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	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	.	.	.
44	UM	42	-444	444	443	-1	1	995	.	98	443	.	1

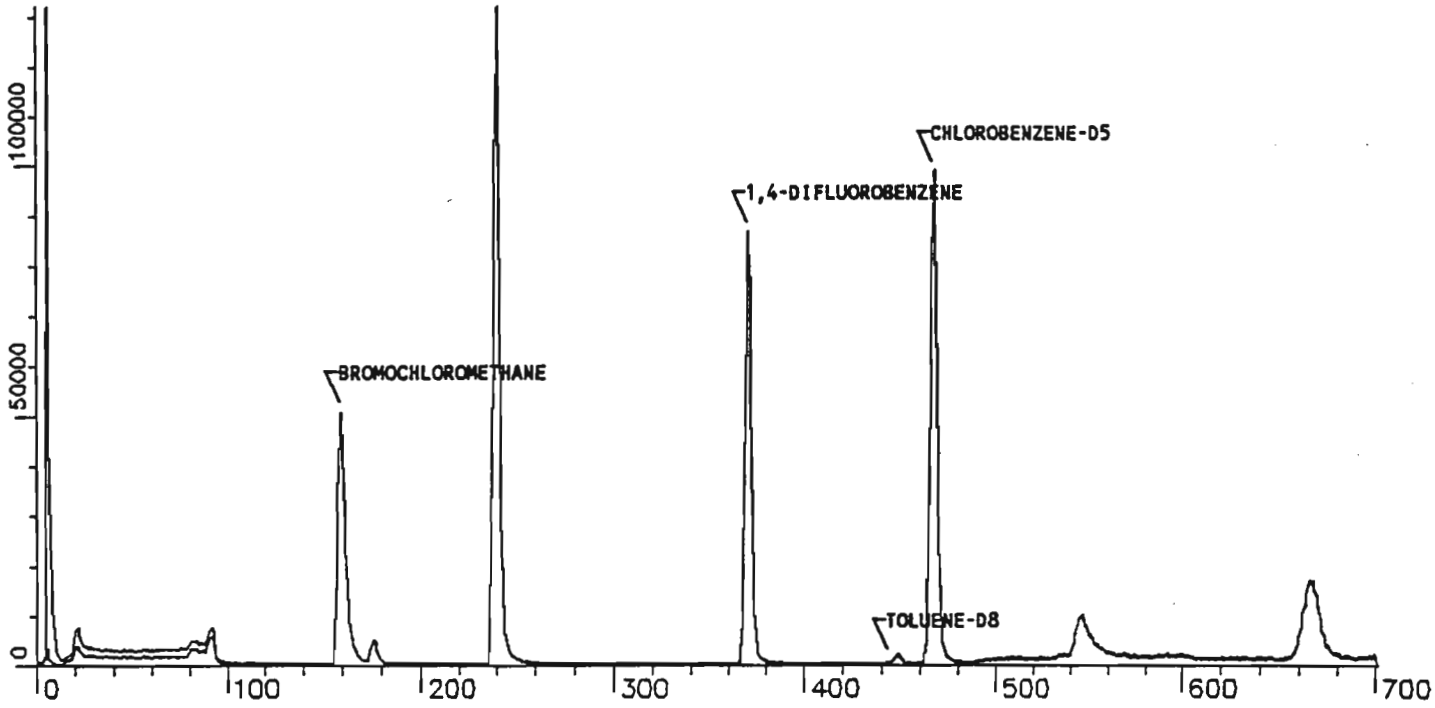
C114880E7V 2

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: 1148800 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

C114880E7V 1

Sample: L#11488001 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

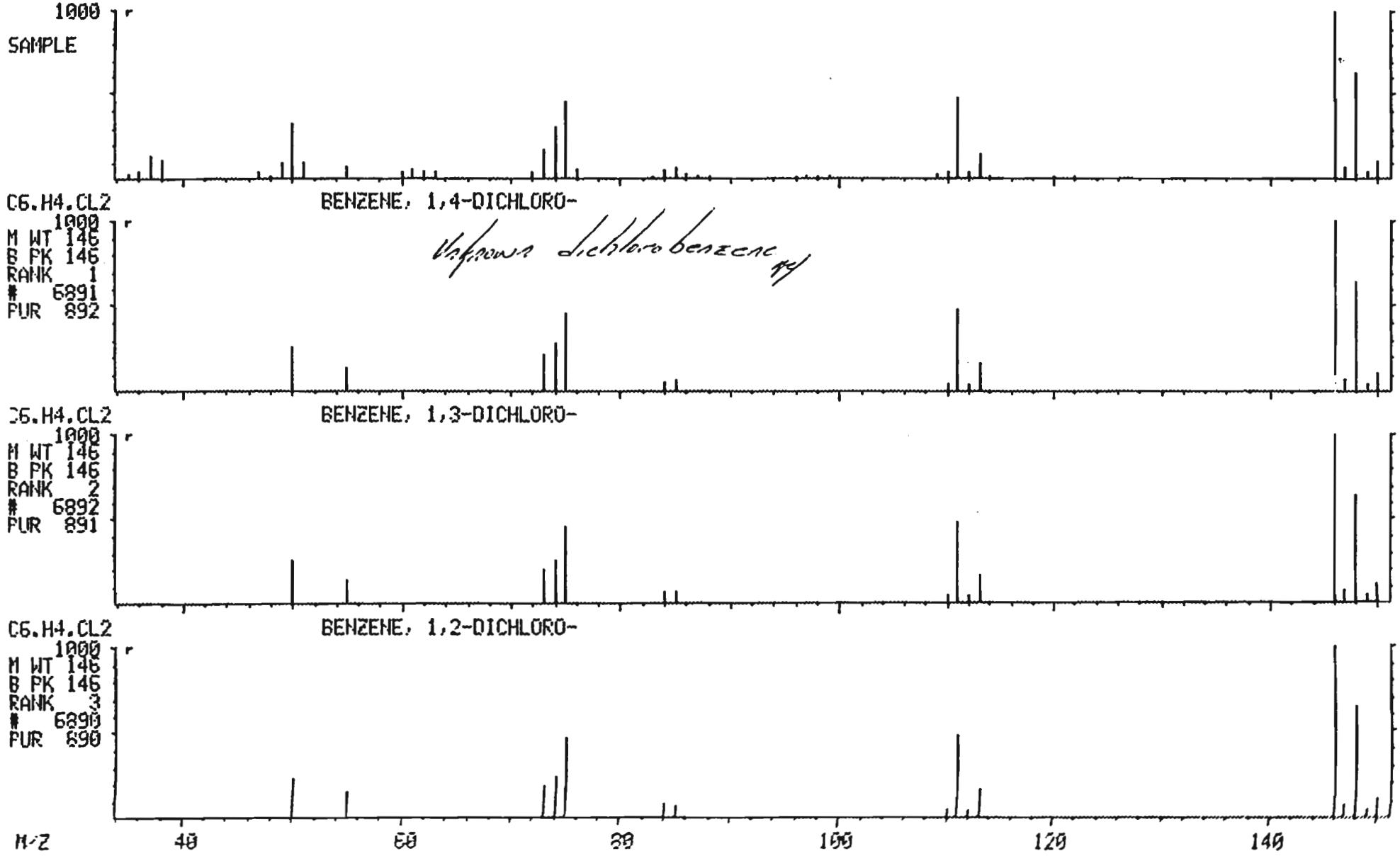
No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
1	7:57	0	1.000	1.00	50.00	50.00	1.000	1.000	1.00	1	BROMOCHLOROMETHANE
13	18:36	6	1.000	1.00	50.00	50.00	1.000	1.000	1.00	13	1,4-DIFLUOROBENZENE
36	23:24	3	1.000	1.00	50.00	50.00	1.000	1.000	1.00	36	CHLOROBENZENE-D5
19	10:51		1.365							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

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

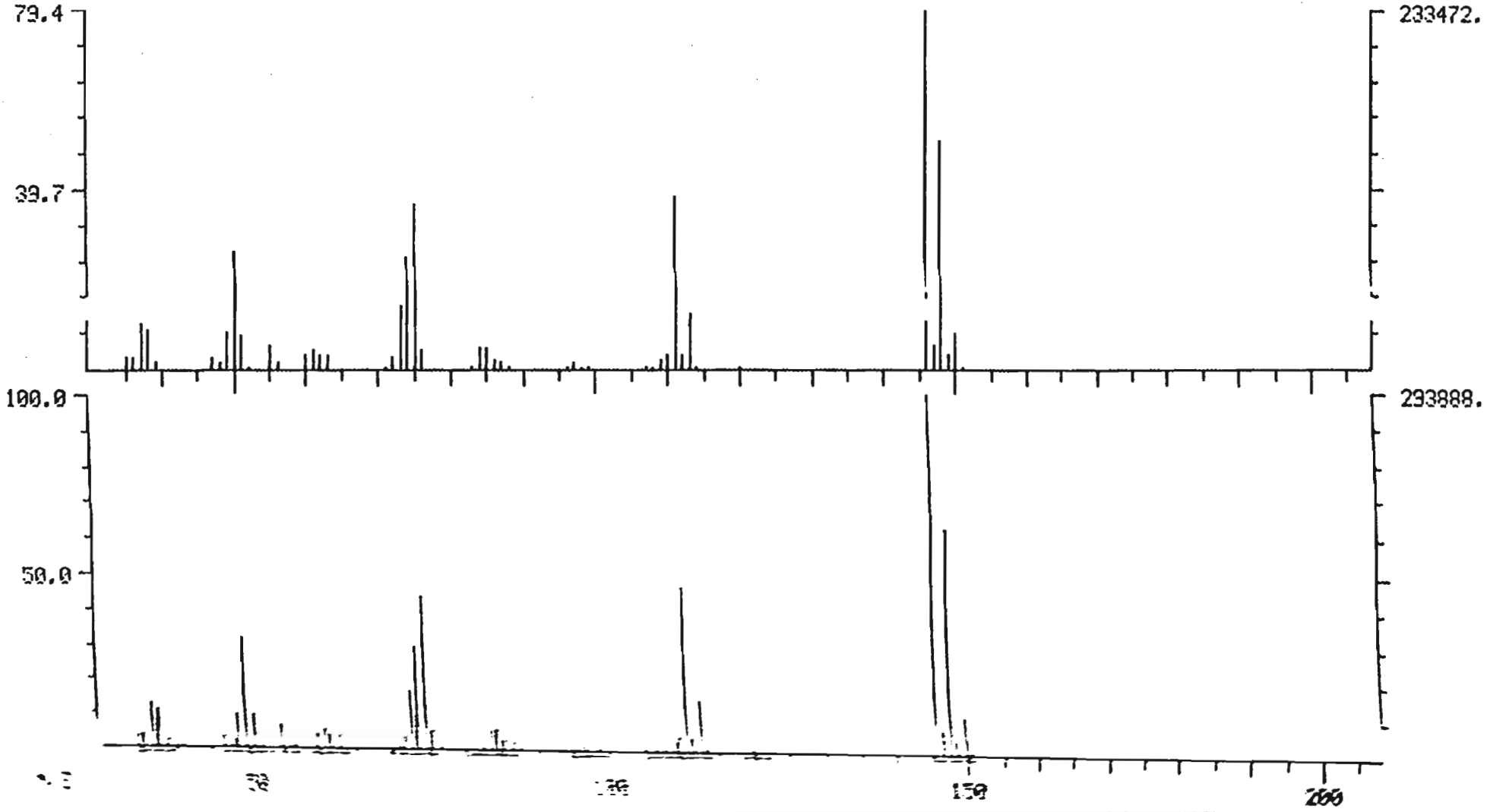
BASE M/Z: 146
RIC: 1161210.



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 QWAC
ENHANCED (S 15B 2N 0T)

DATA: C114880EV #663
CALI: C114880EV #2

BASE M/Z: 146/ 146
RIC: 1183740./ 1478650.

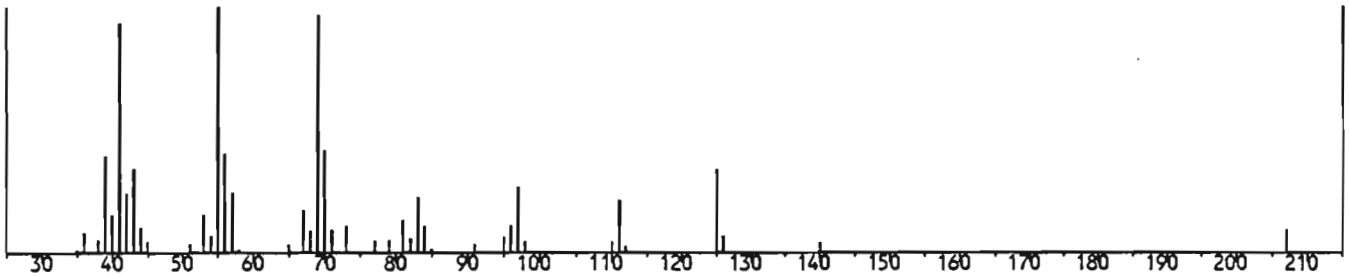


C114880EV$_{29}$

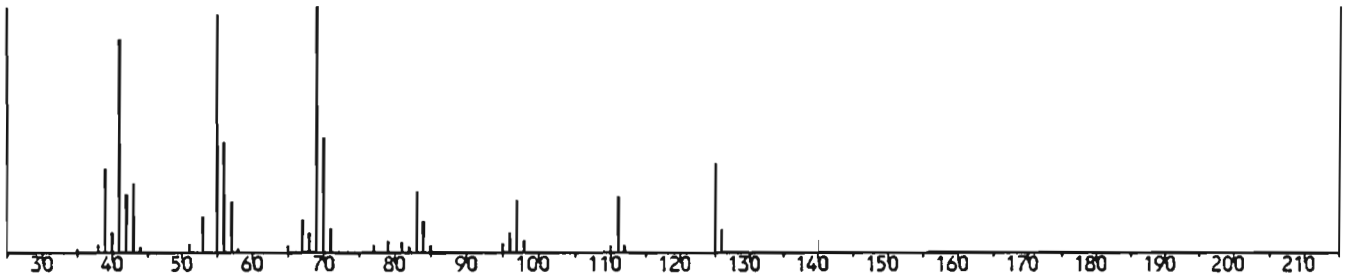
Sample: L#114880 CLI#SEPTIC_SLUDGE ETR#21436 4.17G/10ML->25UL/5ML
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: MED SOIL Lab ID: 114880 Client ID: SEPTIC_SLUDGE ETR Number: 21436 Submitted by: ADIENV
Weight: 4.170 g

05/24/90 2243
OWAC -- CMS

Unenhanced spectrum -- Scan # 597 Base m/z: 55 --- RIC: 24416. Max intensity: 3040

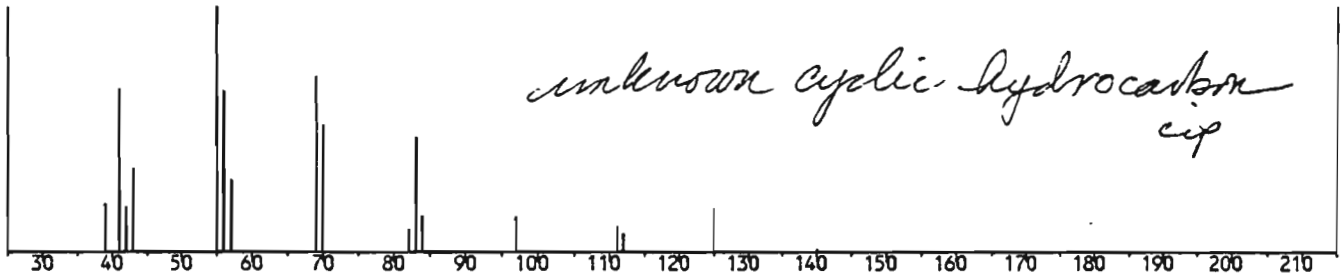


Enhanced (S 15B 2N 0T) -- Scan # 597 Base m/z: 69 --- RIC: 15167 Max intensity: 2160

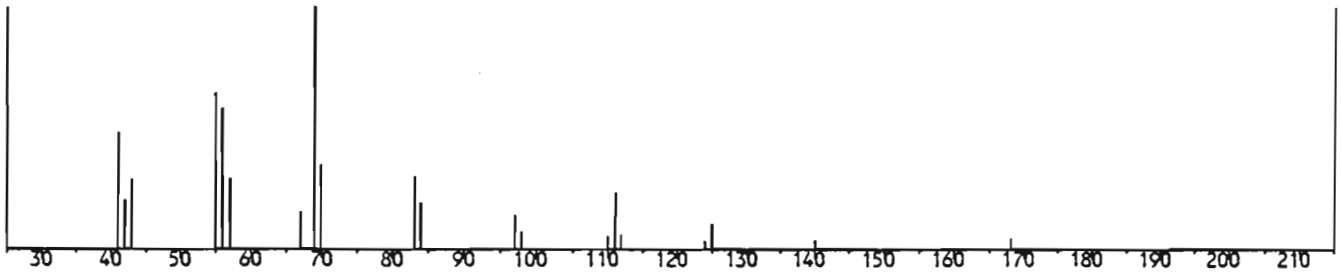


NB# 5690 CAS:13151-98-9 CYCLOOCTANE, 1,4-DIMETHYL-, TRANS- (C10H20) PURITY:789 FIT:935 RFIT:805

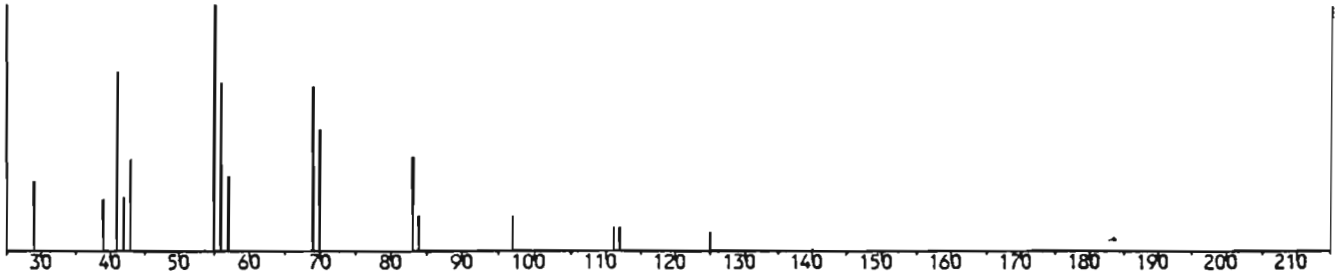
unknown cyclic hydrocarbon
cyp



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

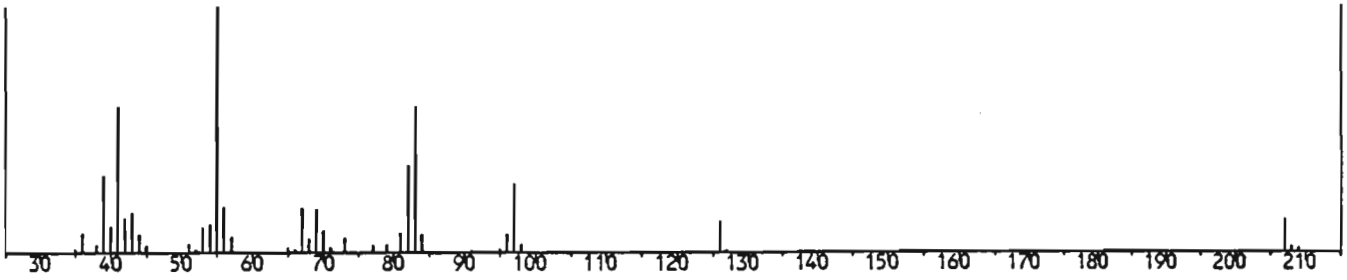


C114880EV$_{28}$

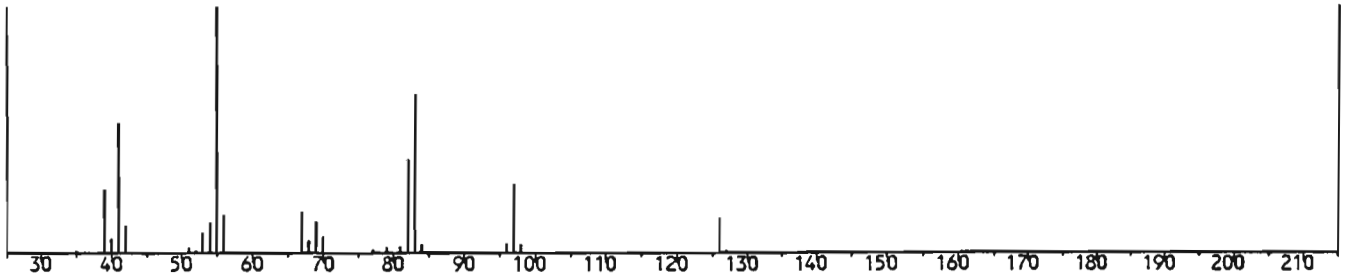
Sample: L#114880 CLI#SEPTIC_SLUDGE ETR#21436 4.17G/10ML->25UL/5ML
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: MED SOIL Lab ID: 114880 Client ID: SEPTIC_SLUDGE ETR Number: 21436 Submitted by: ADIENV
Weight: 4.170 g

05/24/90 2243
OWAC -- CMS

Unenhanced spectrum -- Scan # 568 Base m/z: 55 --- RIC: 24288. Max intensity: 4440

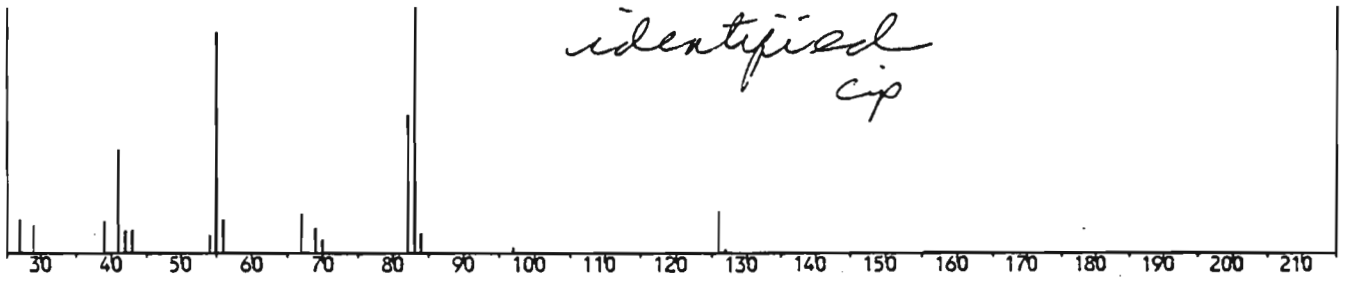


Enhanced (S 158 2N 0T) -- Scan # 568 Base m/z: 55 --- RIC: 16607 Max intensity: 3780

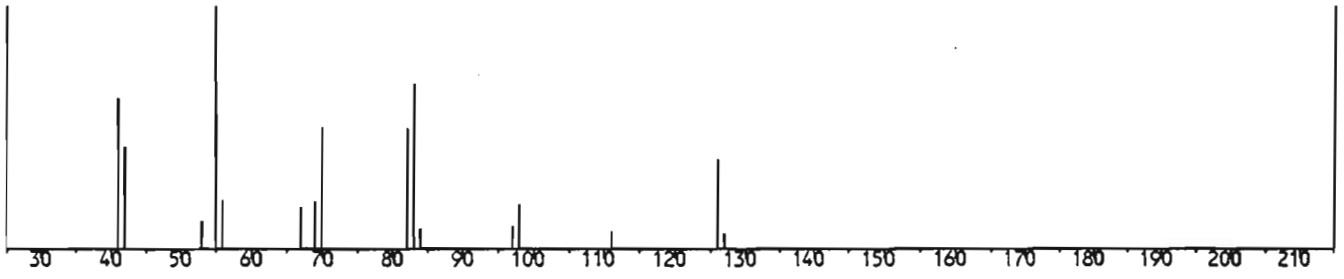


NB# 3746 CAS: 1678-92-8 CYCLOHEXANE, PROPYL- (C9H18) PURITY:832 FIT:907 RFIT:843

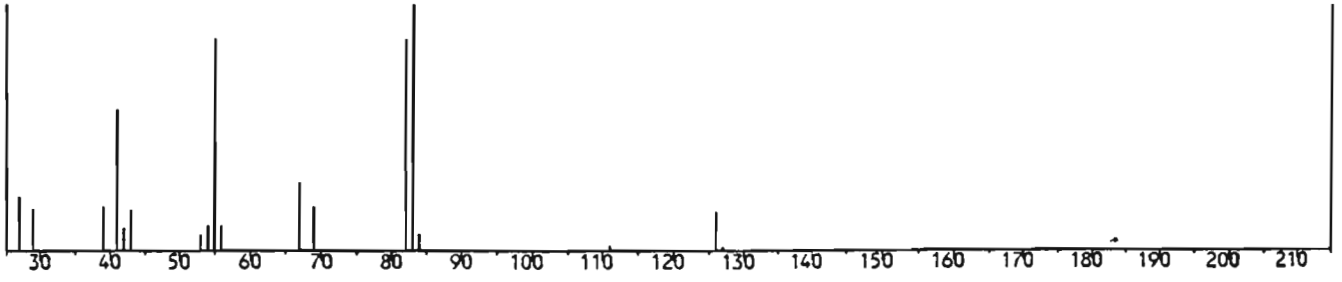
identified cp



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

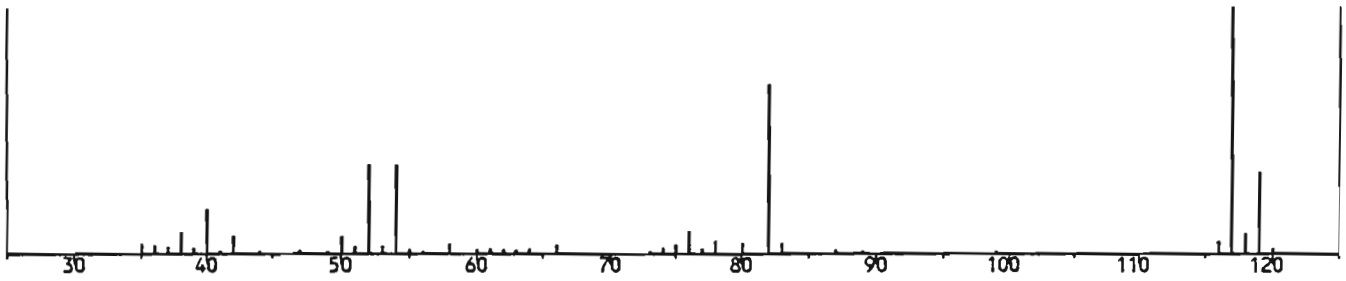


Sample: L#114880 CLI#SEPTIC_SLUDGE ETR#21436 4.17G/10ML->25UL/5ML
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: MED SOIL Lab ID: 114880 Client ID: SEPTIC_SLUDGE ETR Number: 21436 Submitted by: ADIENV
Weight: 4.170 g

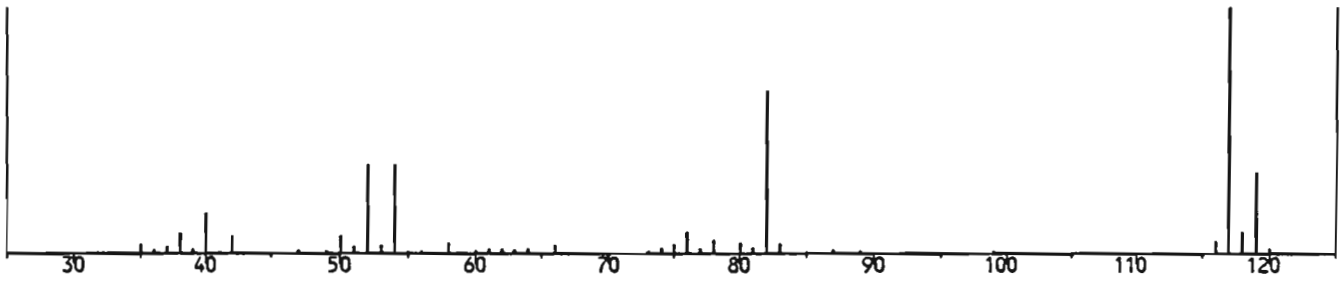
05/24/90 2243
OWAC -- CMS

LIBRARYUM#36 CHLOROBENZENE-D5

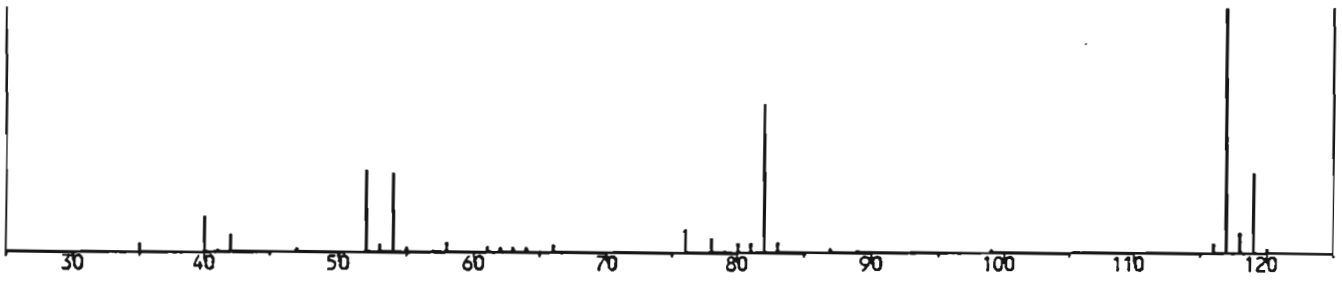
Unenhanced spectrum -- Scan # 466 Base m/z: 117 --- RIC: 73472. Max intensity: 17824



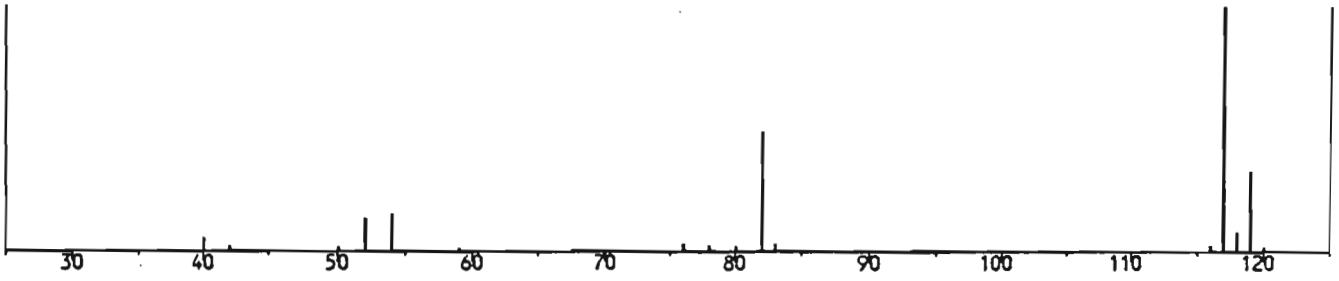
Enhanced (S 158 2N 0T) -- Scan # 466 Base m/z: 117 --- RIC: 69376. Max intensity: 17248



Enhanced CKV050BHV -- Scan # 467 Base m/z: 117 --- RIC: 73088. Max intensity: 20288



LIBRARYUM#36 CAS: 79-00-5 (IS) CHLOROBENZENE-D5 (C6ClD5)



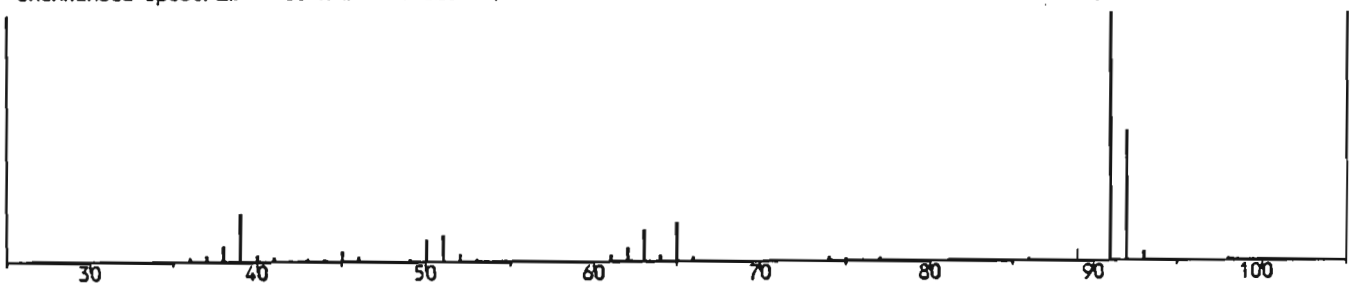
C114880EV$_{19}$

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

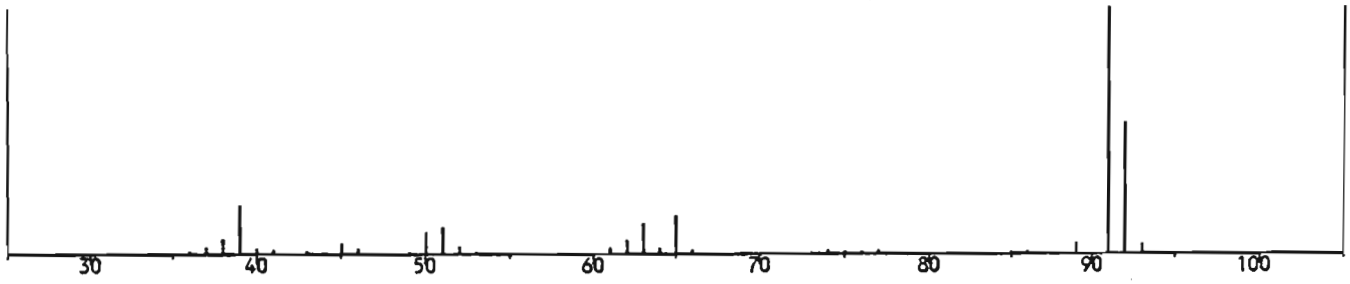
05/24/90 2243
OWAC -- CMS

LIBRARYUM#43 TOLUENE

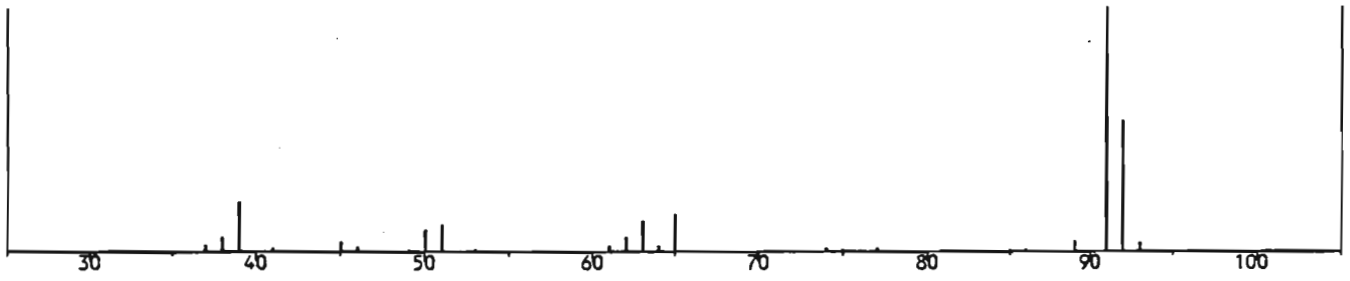
Unenhanced spectrum -- Scan # 447 Base m/z: 91 --- RIC: 135424. Max intensity: 48576



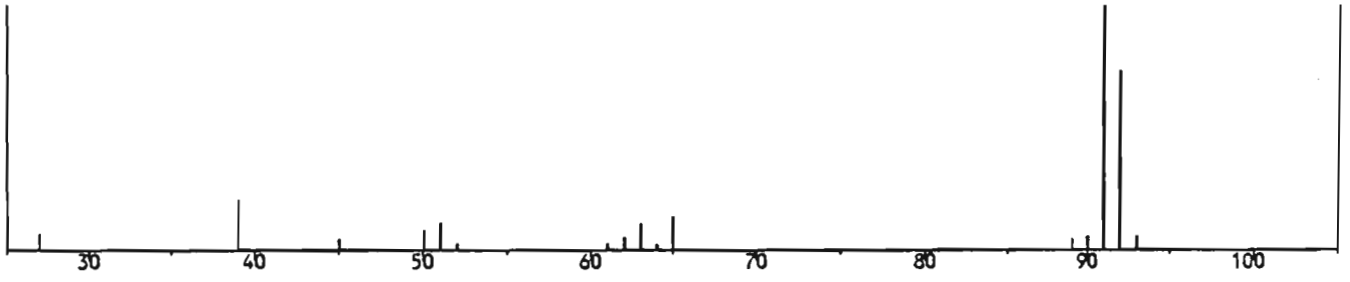
Enhanced (S 15B 2N 0T) -- Scan # 447 Base m/z: 91 --- RIC: 128512. Max intensity: 46400



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



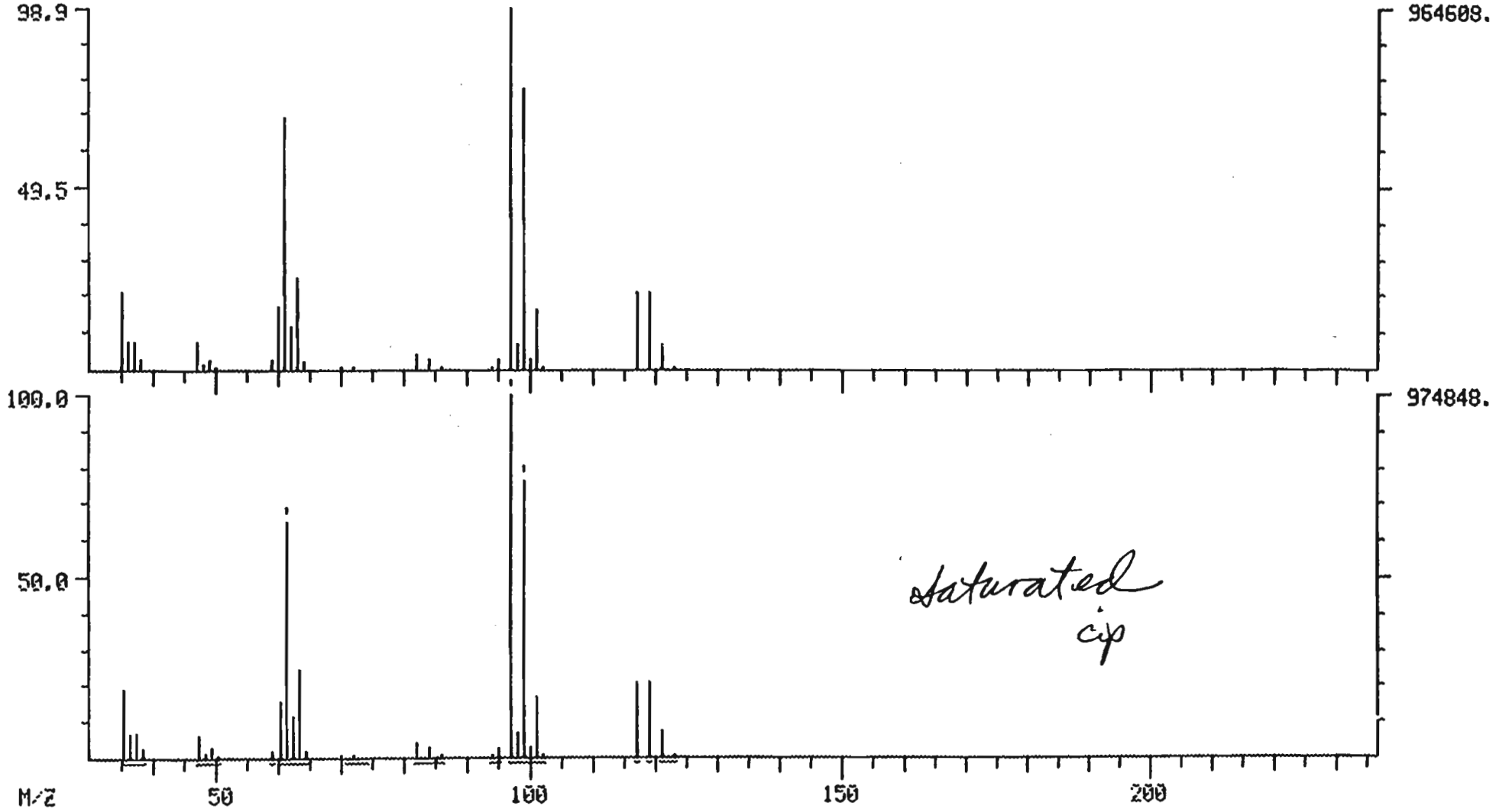
LIBRARYUM#43 CAS: 108-88-3 BENZENE, METHYL- (C7H8)



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#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

C114880E7V16

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

$QF = \frac{10.0}{4.2} \times \frac{5.0}{0.00035} = 34013.60544$ 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

ITC 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				PLUS UNKNOWNS				LIST NAMES
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	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

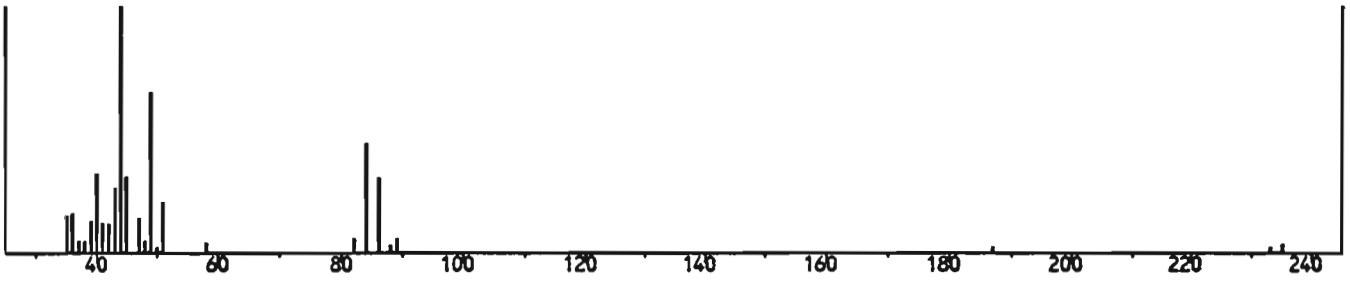
COMPOUND			SEARCH					SAT	CHRO			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	UM	1	-158	159	159	.	1	987	.	128	159	.	1
2	UM	2	-18	21	.	.	.	.	.	50	.	.	.
3	UM	3	-30	33	.	.	.	.	.	94	.	.	.
4	UM	4	-40	43	.	.	.	.	.	62	.	.	.
5	UM	5	-55	57	.	.	.	.	.	64	.	.	.
6	UM	6	-89	91	91	.	1	982	.	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

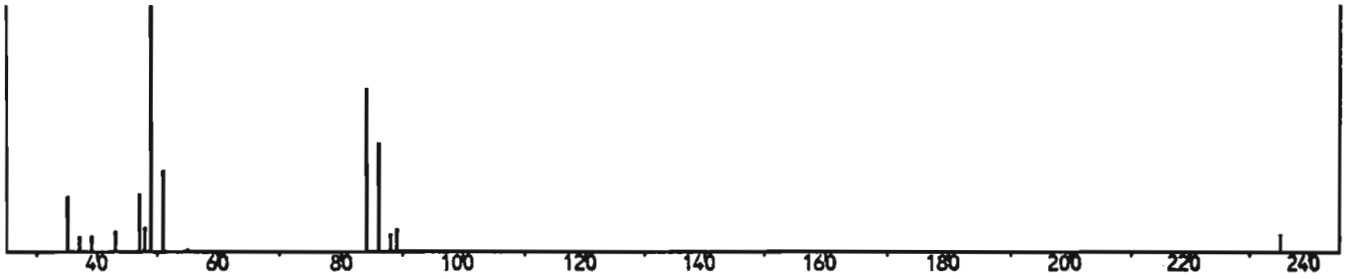
Sample: L#114880D1 CLI#SEPTIC-SLUDGEDL ETR#21436 4.17G/10ML->0.35UL/5ML 05/30/90 1336
Conditions: GC/MS OWAC OWAC -- CMP
Method: 8240-4 Matrix: MED SOIL Lab ID: 114880D Client ID: SEPTIC-SLUDGEDL ETR Number: 21436
Submitted by: ADIENV
Weight: 4.170 g

LIBRARYUM#6 METHYLENE CHLORIDE

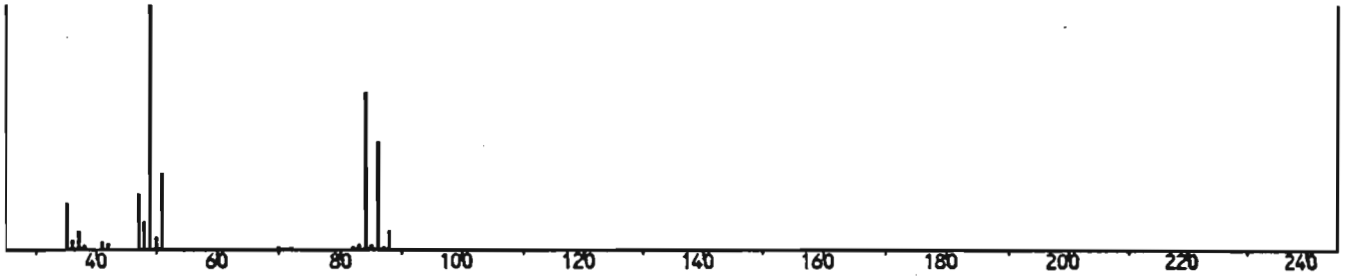
Unenhanced spectrum -- Scan # 91 ase m/z: 44 --- RIC: 7360. Max intensity: 1560



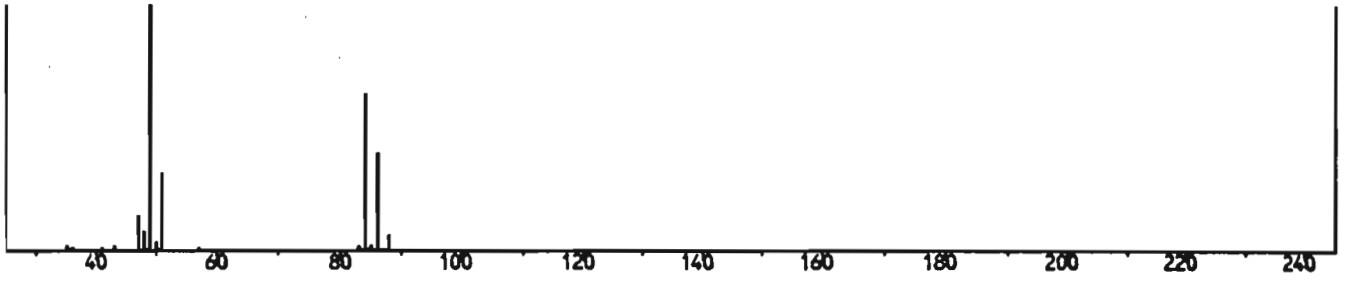
Enhanced (S 15B 2N 0T) -- Scan # 91 ase m/z: 49 --- RIC: 3332. Max intensity: 976



Enhanced CKW050BHV -- Scan # 91 Base m/z: 49 --- RIC: 89216. Max intensity: 26752



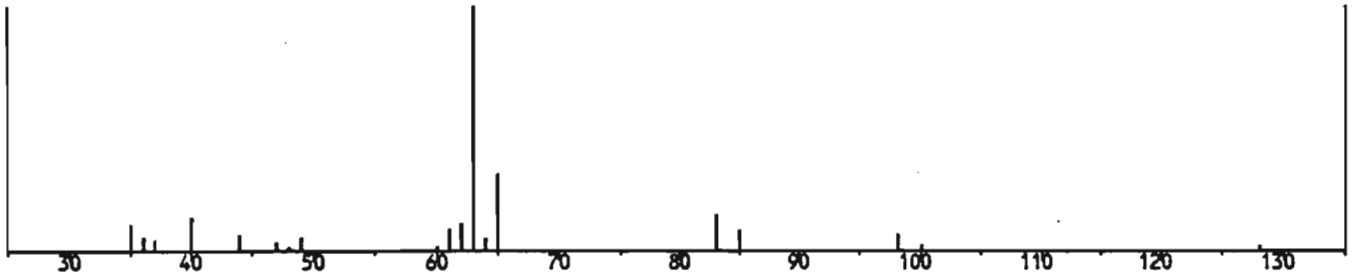
LIBRARYUM#6 CAS: 75-09-2 METHANE, DICHLORO- (CH2Cl2)



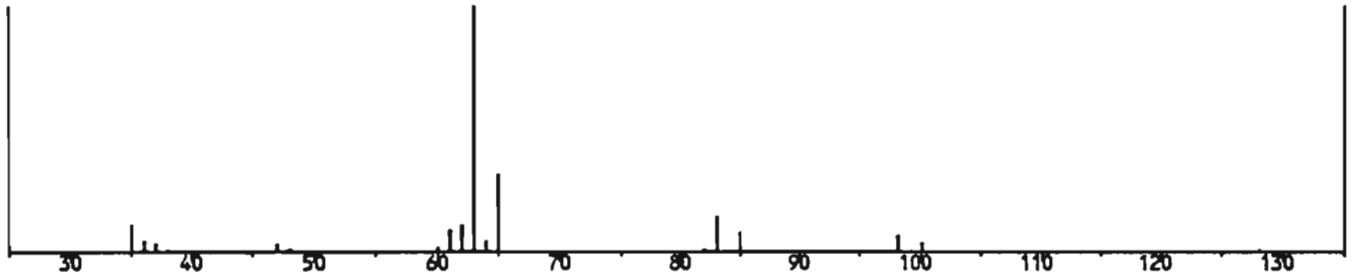
Sample: L#1148800D1 CLI#SEPTIC-SLUDGEDL ETR#21436 4.17G/10ML->0.35UL/5ML
05/30/90 1336
Conditions: GC/MS OWAC
OWAC -- CMP
Method: 8240-4 Matrix: MED SOIL Lab ID: 1148800 Client ID: SEPTIC-SLUDGEDL ETR Number: 21436
Submitted by: ADIENV
Weight: 4.170 g

LIBRARYUM#14 1,1-DICHLOROETHANE

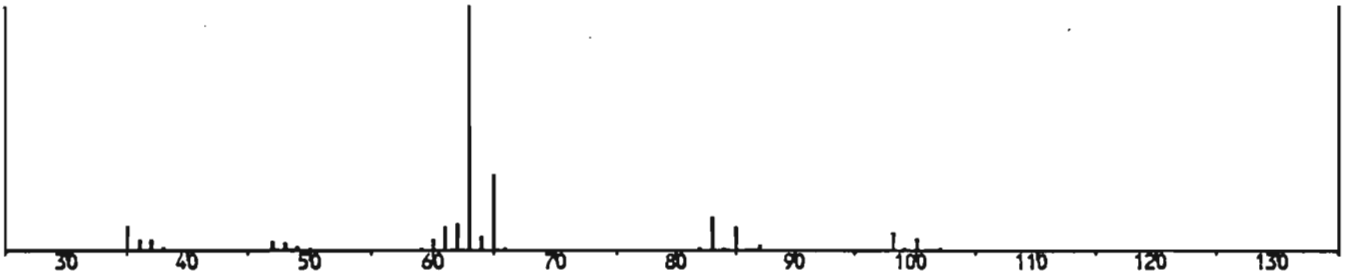
Unenhanced spectrum -- Scan # 176 ase m/z: 63 --- RIC: 5096. Max intensity: 2120



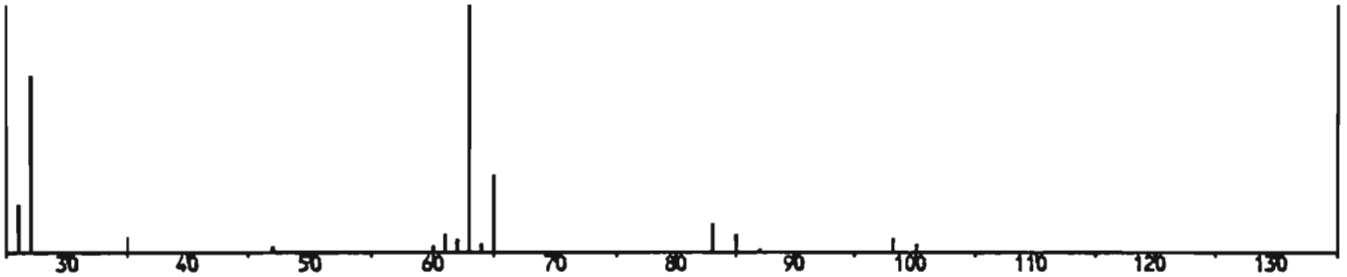
Enhanced (S 15B 2N 0T) -- Scan # 176 ase m/z: 63 --- RIC: 4480. Max intensity: 2100



Enhanced CKW050BHV -- Scan # 176 Base m/z: 63 --- RIC: 37504. Max intensity: 16064



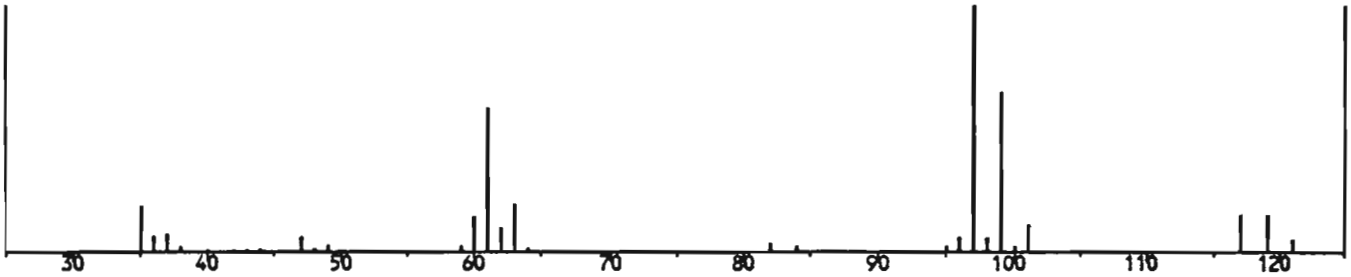
LIBRARYUM#14 CAS: 75-34-3 ETHANE, 1,1-DICHLORO- (C2H4Cl2)



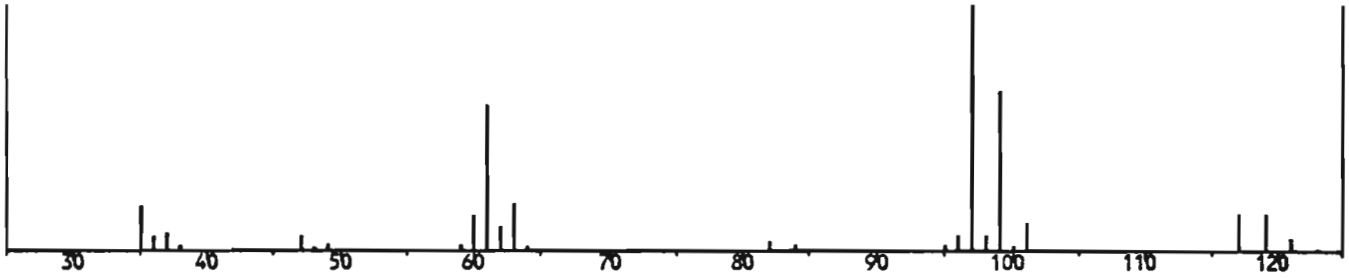
Sample: L#114880D1 CLI#SEPTIC-SLUDGEDL ETR#21436 4.17G/10ML->0.35UL/5ML 05/30/90 1336
Conditions: GC/MS OWAC OWAC -- CMP
Method: 8240-4 Matrix: MED SOIL Lab ID: 114880D Client ID: SEPTIC-SLUDGEDL ETR Number: 21436
Submitted by: ADIENV
Weight: 4.170 g

LIBRARYUM#22 1,1,1-TRICHLOROETHANE

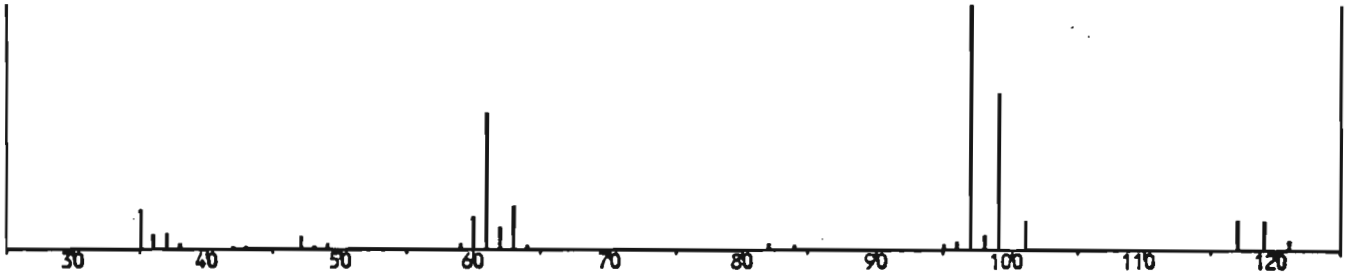
Unenhanced spectrum -- Scan # 240 ase m/z: 97 --- RIC: 132352. Max intensity: 34496



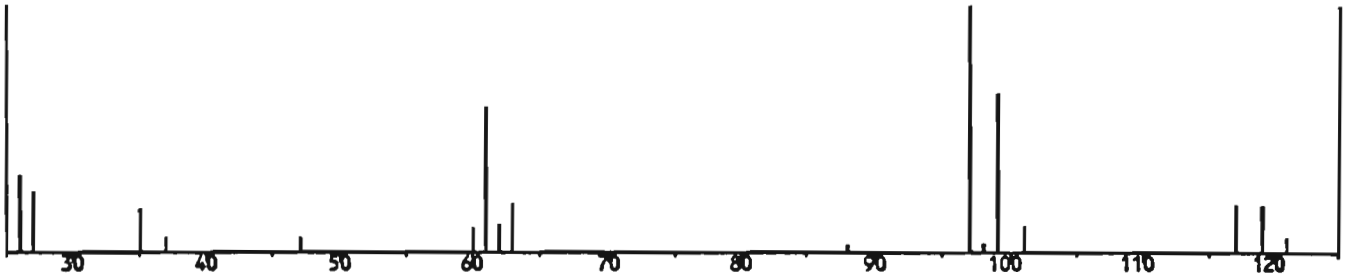
Enhanced (S 15B 2N 0T) -- Scan # 240 ase m/z: 97 --- RIC: 124928. Max intensity: 32544



Enhanced CKW050BHV -- Scan # 242 Base m/z: 97 --- RIC: 61696. Max intensity: 17056



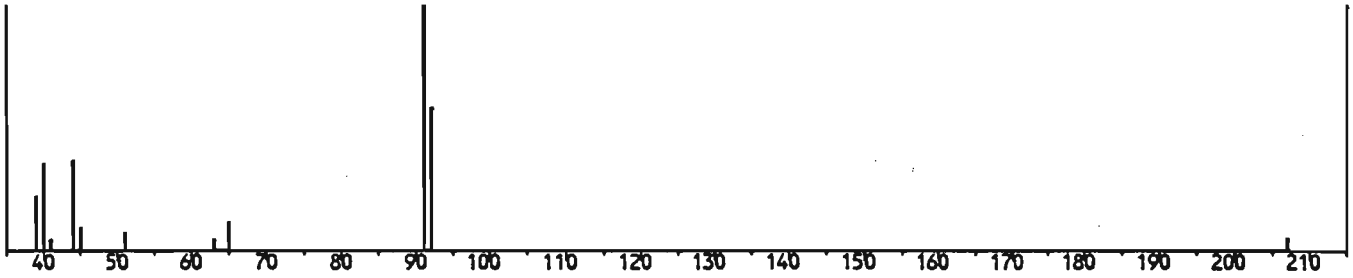
LIBRARYUM#22 CAS: 71-55-6 ETHANE, 1,1,1-TRICHLORO- (C2H3Cl3)



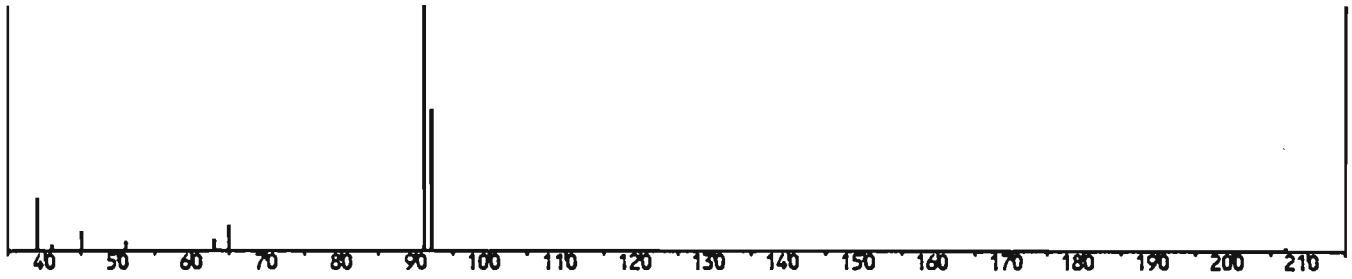
Sample: L#1148800D1 CLI#SEPTIC-SLUDGEDL ETR#21436 4.17G/10ML->0.35UL/5ML 05/30/90 1336
Conditions: GC/MS OWAC OWAC -- CMP
Method: 8240-4 Matrix: MED SOIL Lab ID: 1148800 Client ID: SEPTIC-SLUDGEDL ETR Number: 21436
Submitted by: ADIENV
Weight: 4.170 g

LIBRARYUM#43 TOLUENE

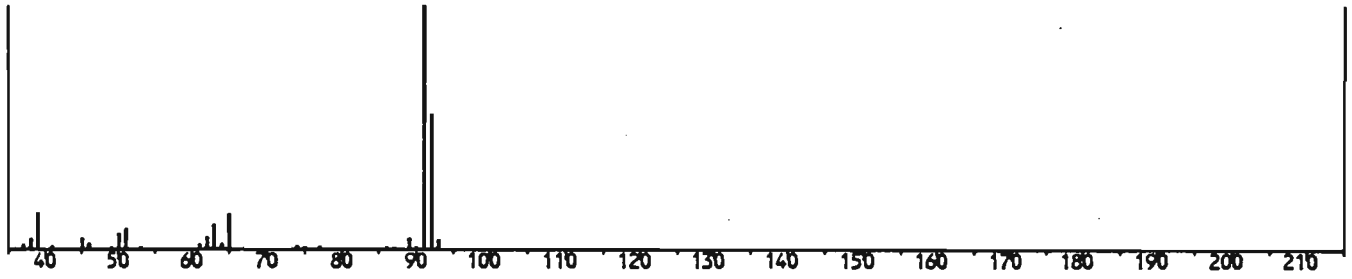
Unenhanced spectrum -- Scan # 448 ase m/z: 91 --- RIC: 2240. Max intensity: 769



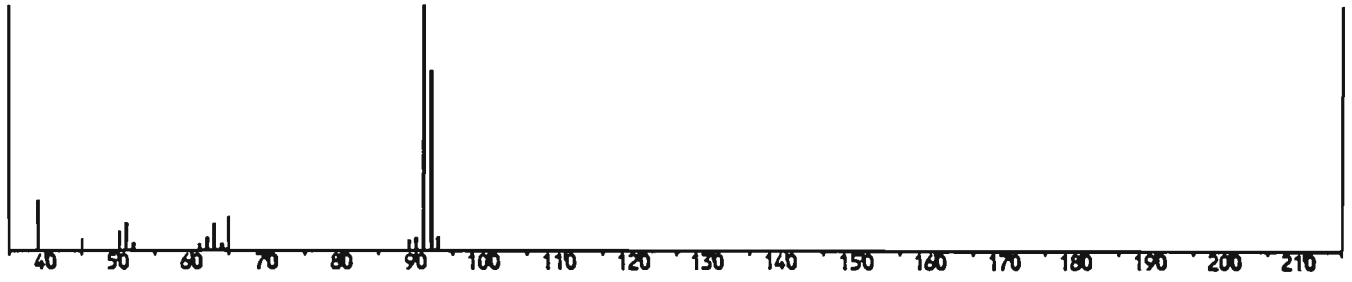
Enhanced (S 15B 2N 0T) -- Scan # 448 ase m/z: 91 --- RIC: 1566. Max intensity: 755



Enhanced CKW050BHV -- Scan # 449 Base m/z: 91 --- RIC: 101760. Max intensity: 40832



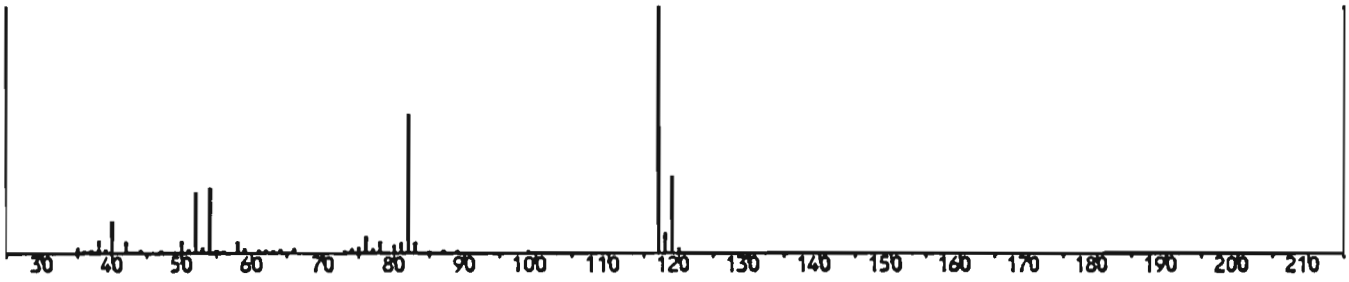
LIBRARYUM#43 CAS: 108-88-3 BENZENE, METHYL- (C7H8)



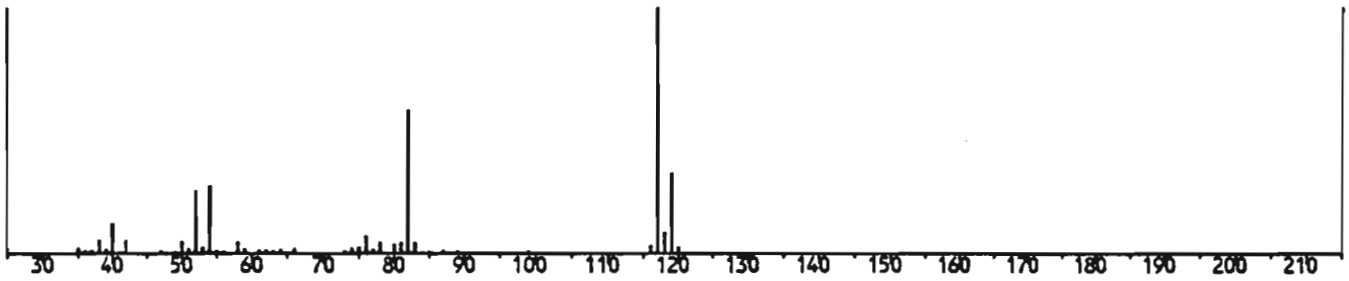
Sample: L#114880D1 CLI#SEPTIC-SLUDGEDL ETR#21436 4.17G/10ML->0.35UL/5ML 05/30/90 1336
Conditions: GC/MS OWAC OWAC -- CMP
Method: 8240-4 Matrix: MED SOIL Lab ID: 114880D Client ID: SEPTIC-SLUDGEDL ETR Number: 21436
Submitted by: ADIENV
Weight: 4.170 g

LIBRARYUM#36 CHLOROBENZENE-D5

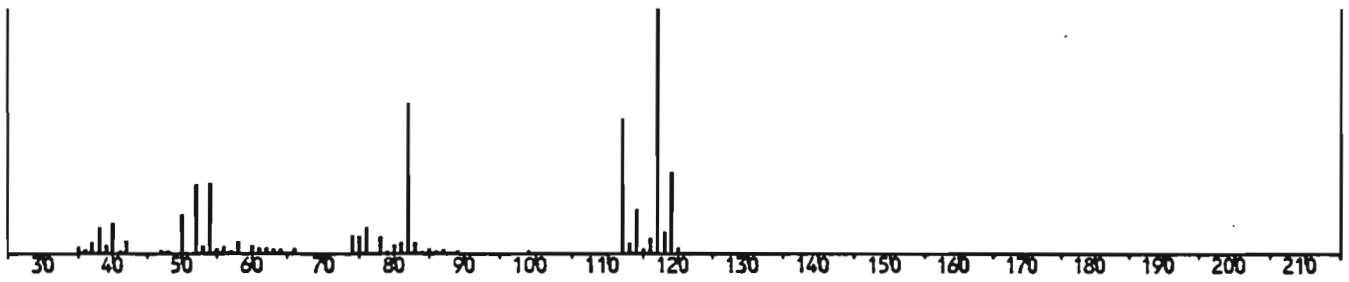
Unenhanced spectrum -- Scan # 467 ase m/z: 117 --- RIC: 99328. Max intensity: 29696



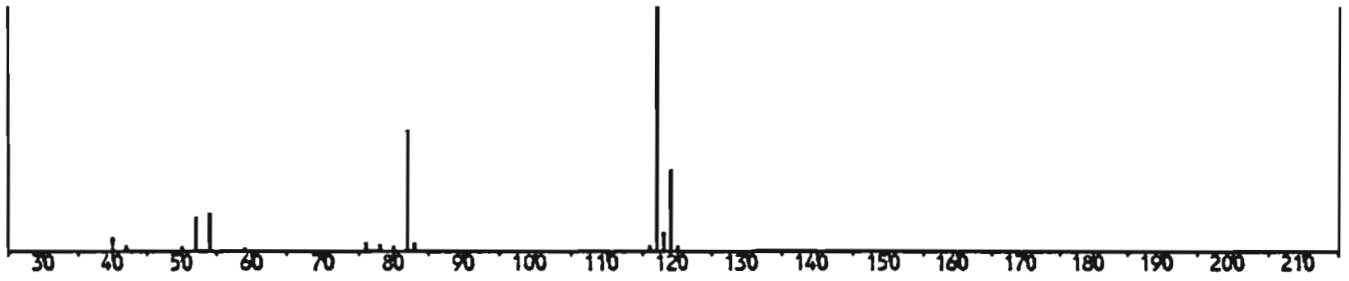
Enhanced (S 15B 2N 0T) -- Scan # 467 ase m/z: 117 --- RIC: 95872. Max intensity: 27872



Enhanced CKW050BHV -- Scan # 468 Base m/z: 117 --- RIC: 146688. Max intensity: 30304

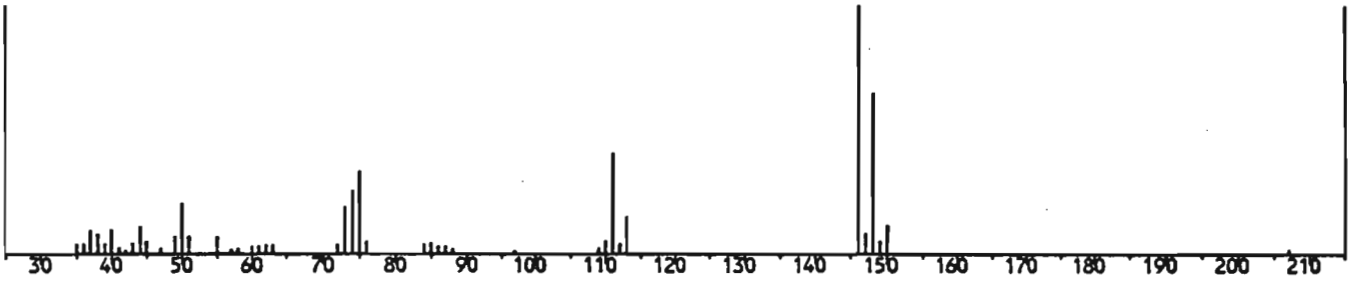


LIBRARYUM#36 CAS: 56-23-5 (IS) CHLOROBENZENE-D5 (C6ClD5)

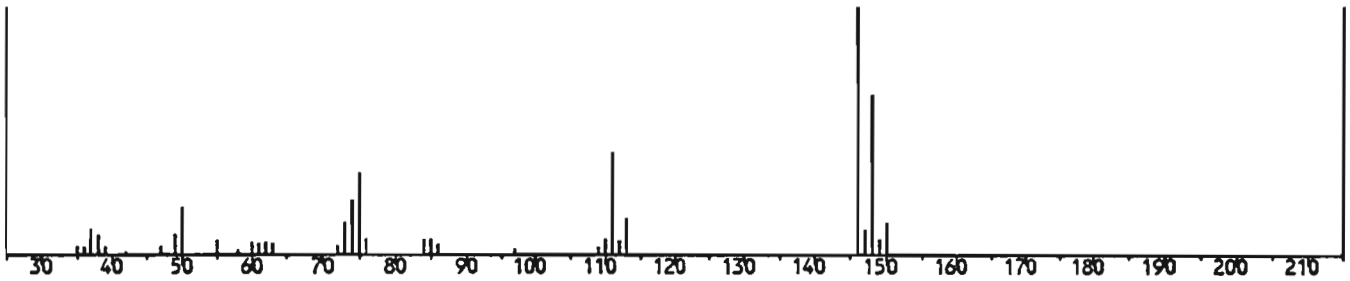


Sample: L#1148800D1 CLI#SEPTIC-SLUDGEDL ETR#21436 4.17G/10ML->0.35UL/5ML 05/30/90 1336
Conditions: GC/MS OWAC OWAC -- CMP
Method: 8240-4 Matrix: MED SOIL Lab ID: 1148800 Client ID: SEPTIC-SLUDGEDL ETR Number: 21436
Submitted by: ADIENV
Weight: 4.170 g

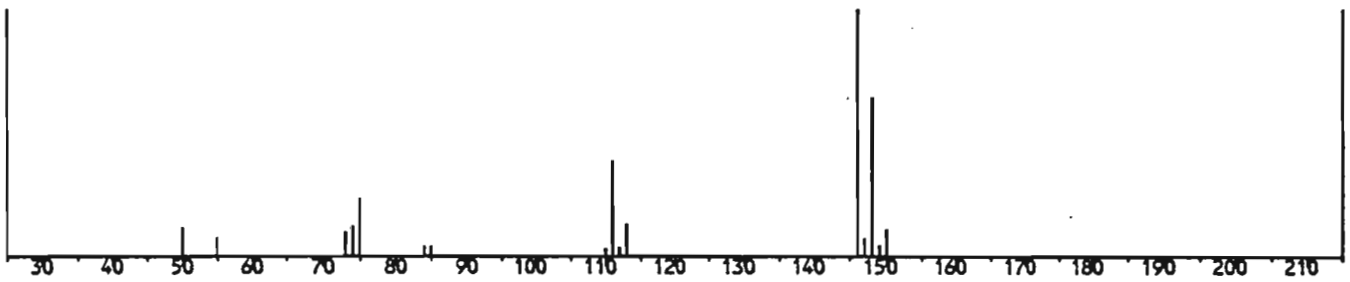
Unenhanced spectrum -- Scan # 665 ase m/z: 146 --- RIC: 17216. Max intensity: 3512



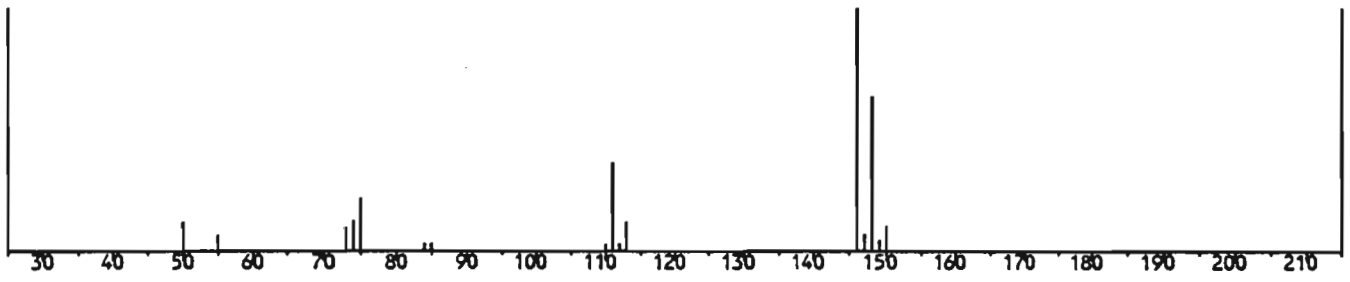
Enhanced (S 15B 2N 0T) -- Scan # 665 ase m/z: 146 --- RIC: 11135 Max intensity: 2520



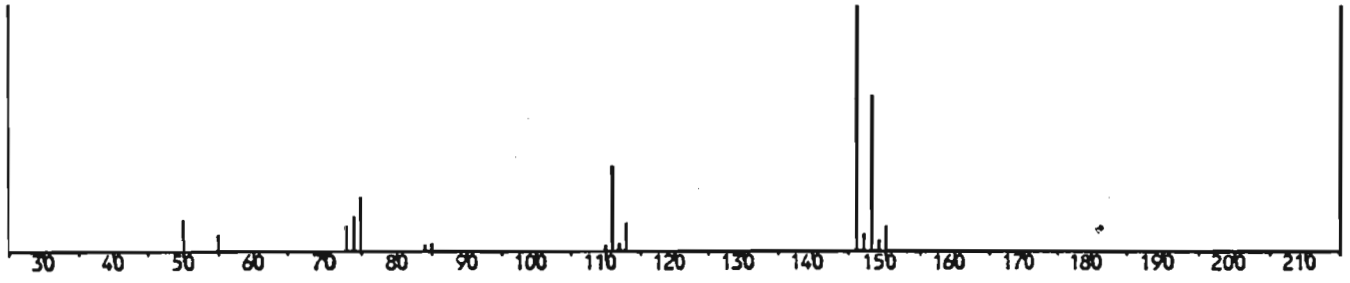
NB# 6890 CAS: 95-50-1 BENZENE, 1,2-DICHLORO- (C6H4Cl2) PURITY:901 FIT:991 RFIT:901



NB# 6892 CAS: 541-73-1 BENZENE, 1,3-DICHLORO- (C6H4Cl2) PURITY:900 FIT:991 RFIT:900



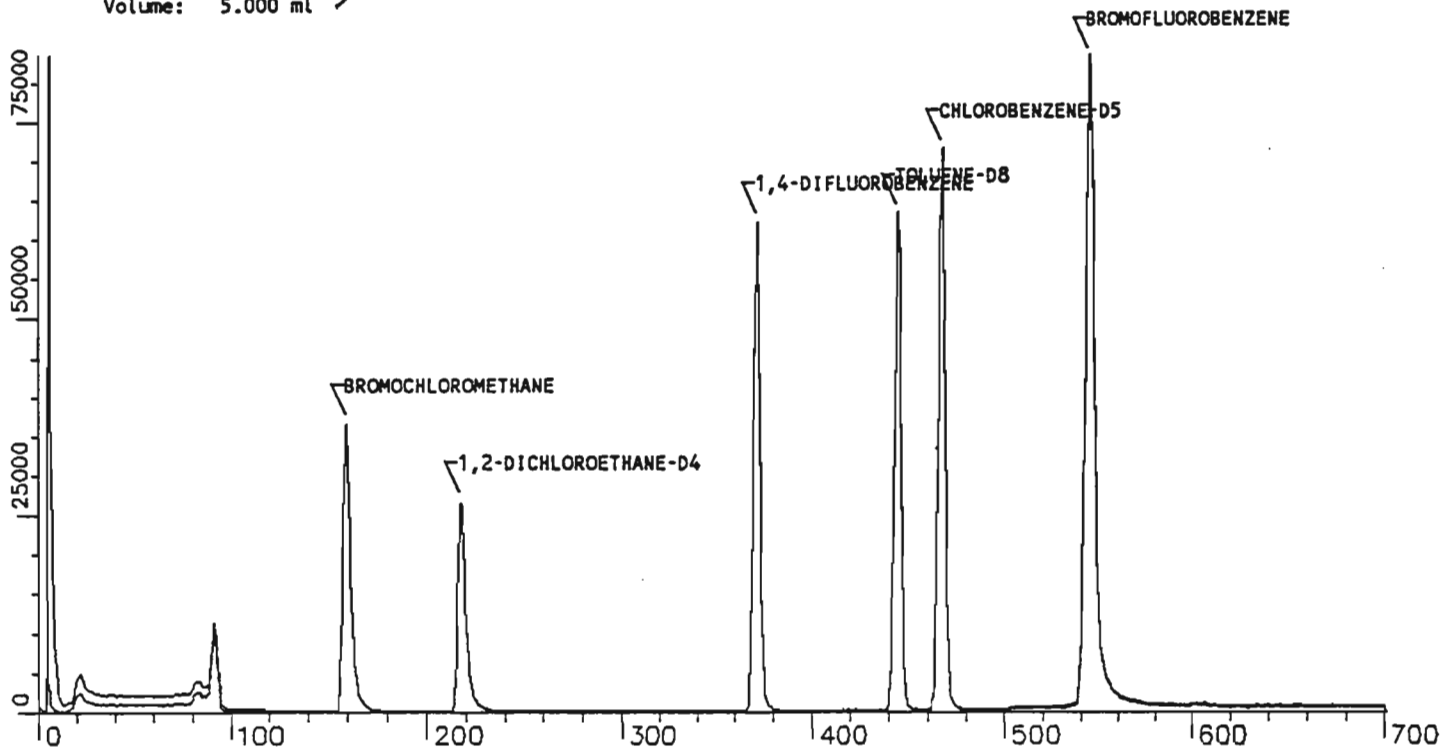
NB# 6891 CAS: 106-46-7 BENZENE, 1,4-DICHLORO- (C6H4Cl2) PURITY:900 FIT:990 RFIT:900



C114944V 1

05/24/90 2054
OWAC -- CMS

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



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

C114944V12

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
cjp

PROCEDURE: TCA DIAGNOSTIC REPORT 5/24/90 21:32:49
DATA FILE: C114944V
REFERENCE: UTAB11
NAME LIST: UM INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: UMRET1

PROC	STANDARDS USED	POSS	RMS	PLUS UNKNOWNS PROC	USED	POSS	RMS	LIST NAMES - STANDARD/UNKNOWN
1	1	1	0	1	0	1	0	UMRET1/UMUNK1
2	2	1	0	2	1	1	57	UMRET2/UMUNK2
3	2	1	0	3	1	1	0	UMRET2/UMUNK3
4	1	1	0	4	1	1	0	UMRET3/UMUNK4
5	1	1	0	5	1	1	0	UMRET4/UMUNK5

52 COMPOUNDS PROCESSED. 6 FOUND

COMPOUND NO	LIB	ENTRY	REF	PRED	SEARCH DEL	DELTA	PEAKS	FIT	SAT PEAKS	M/Z	CHRO TOP	DELTA	PEAKS
1	UM	1	-158	158	158	.	1	979	.	128	159	.	1
2	UM	2	-18	18	.	.	.	.	.	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	113	.	.	.	.	.	43	.	.	
8	UM	8	-112	114	.	.	.	.	.	56	.	.	
9	UM	9	-125	126	.	.	.	.	.	53	.	.	
10	UM	10	-122	122	.	.	.	.	.	76	.	.	
11	UM	11	-134	134	.	.	.	.	.	101	.	.	
12	UM	12	-151	152	.	.	.	.	.	96	.	.	
13	UM	53	-144	144	.	.	.	.	.	46	.	.	
14	UM	13	-371	371	371	.	1	995	.	114	371	.	1
15	UM	51	-160	161	.	.	.	.	.	55	.	.	
16	UM	14	-176	176	.	.	.	.	.	93	.	.	
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	-315	315	.	.	.	.	.	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	469	.	.	.	.	.	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

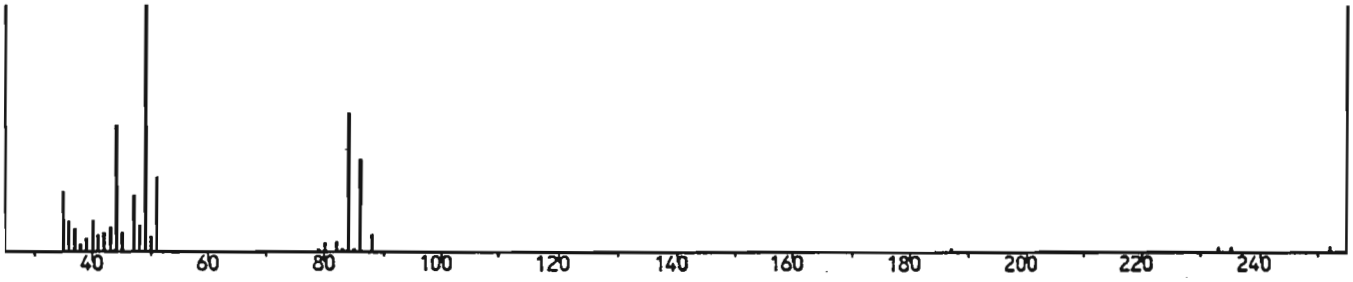
C114944V 6

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

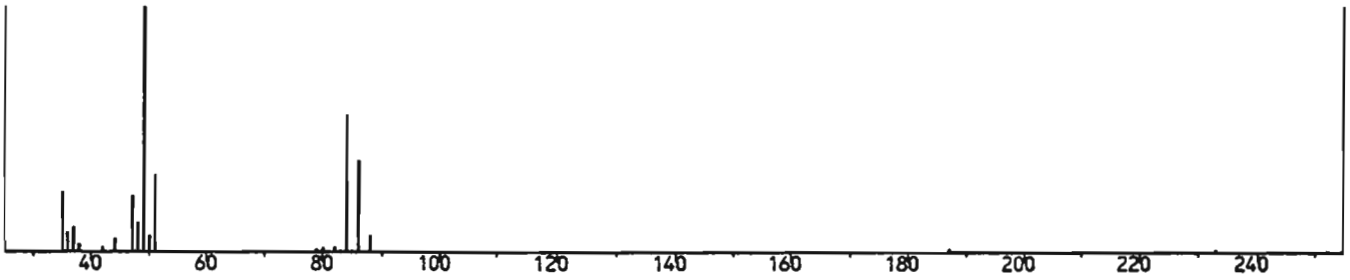
05/24/90 2054
OWAC -- CMS

LIBRARYUM#6 METHYLENE CHLORIDE

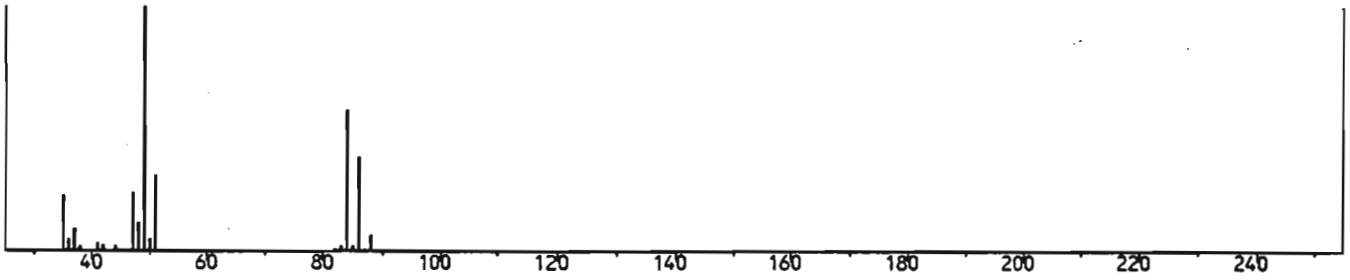
Unenhanced spectrum -- Scan # 91 Base m/z: 49 --- RIC: 11440. Max intensity: 2584



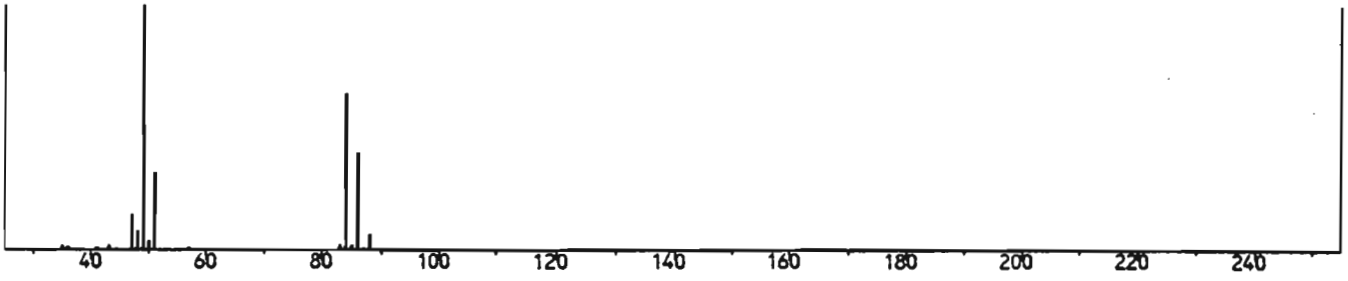
Enhanced (S 15B 2N 0T) -- Scan # 91 Base m/z: 49 --- RIC: 8320. Max intensity: 2484



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

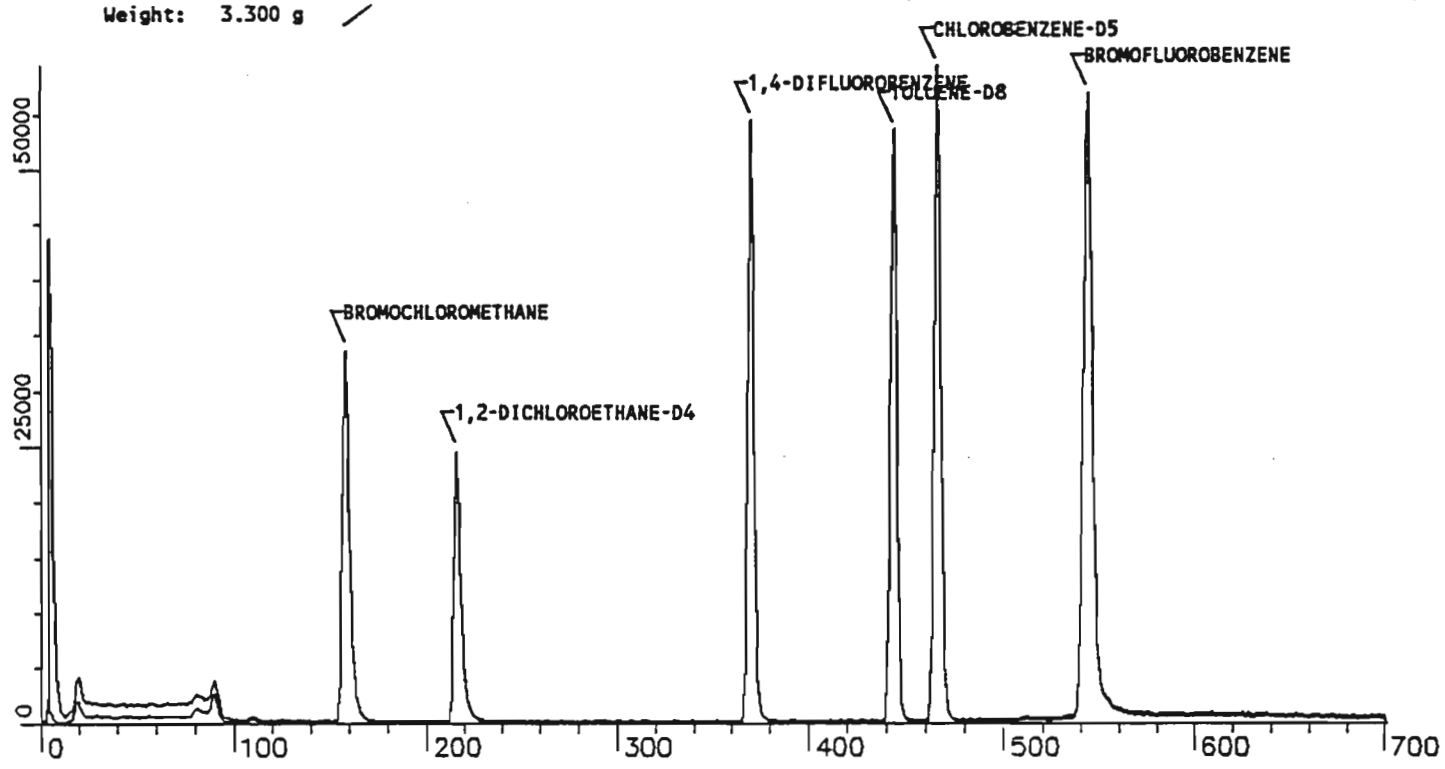


LIBRARYUM#6 CAS: 75-09-2 METHANE, DICHLORO- (CH2Cl2)



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 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	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

C114945V$_{12}$

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

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 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	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 HIT	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	2[illegible]	.	.	.	.	.	50	.	.	.
3	UM	3	-30	3[illegible]	.	.	.	.	.	94	.	.	.
4	UM	4	-40	4[illegible]	.	.	.	.	.	62	.	.	.
5	UM	5	-55	5[illegible]	.	.	.	.	.	64	.	.	.
6	UM	6	-89	9[illegible]	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	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	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	.	.	.

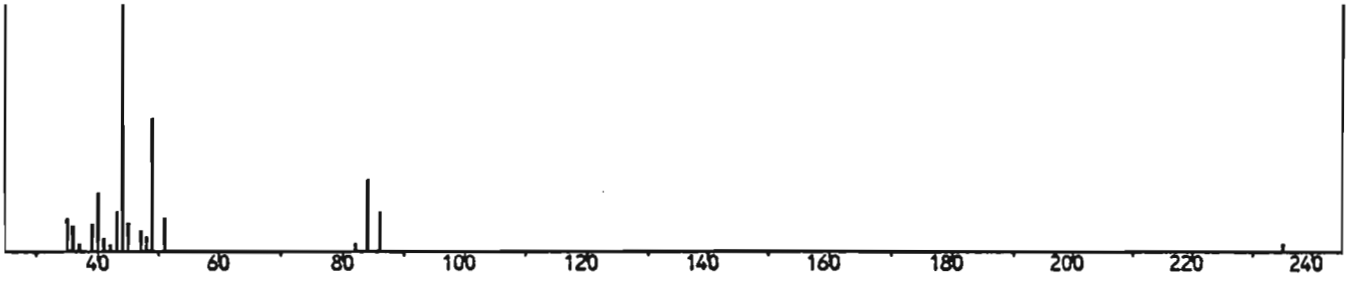
C114945V 6

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

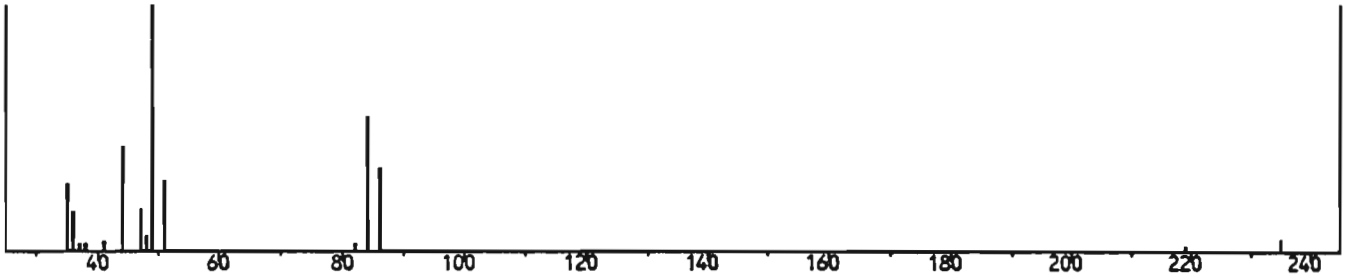
05/24/90 1333
OWAC -- CMP

LIBRARYUM#6 METHYLENE CHLORIDE

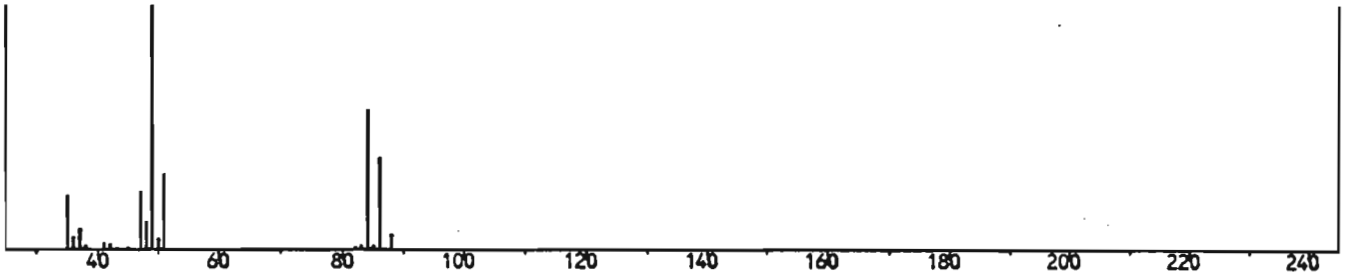
Unenhanced spectrum -- Scan # 90 Base m/z: 44 --- RIC: 3920. Max intensity: 1196



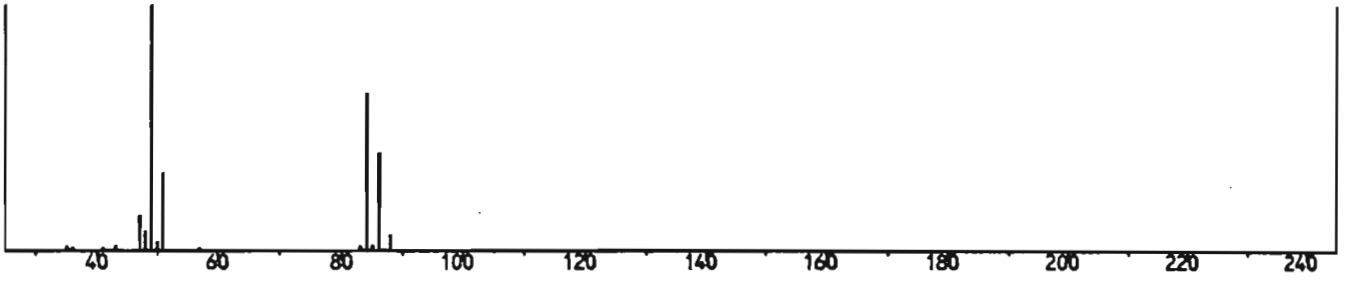
Enhanced (S 15B 2N 0T) -- Scan # 90 Base m/z: 49 --- RIC: 2014. Max intensity: 587



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%

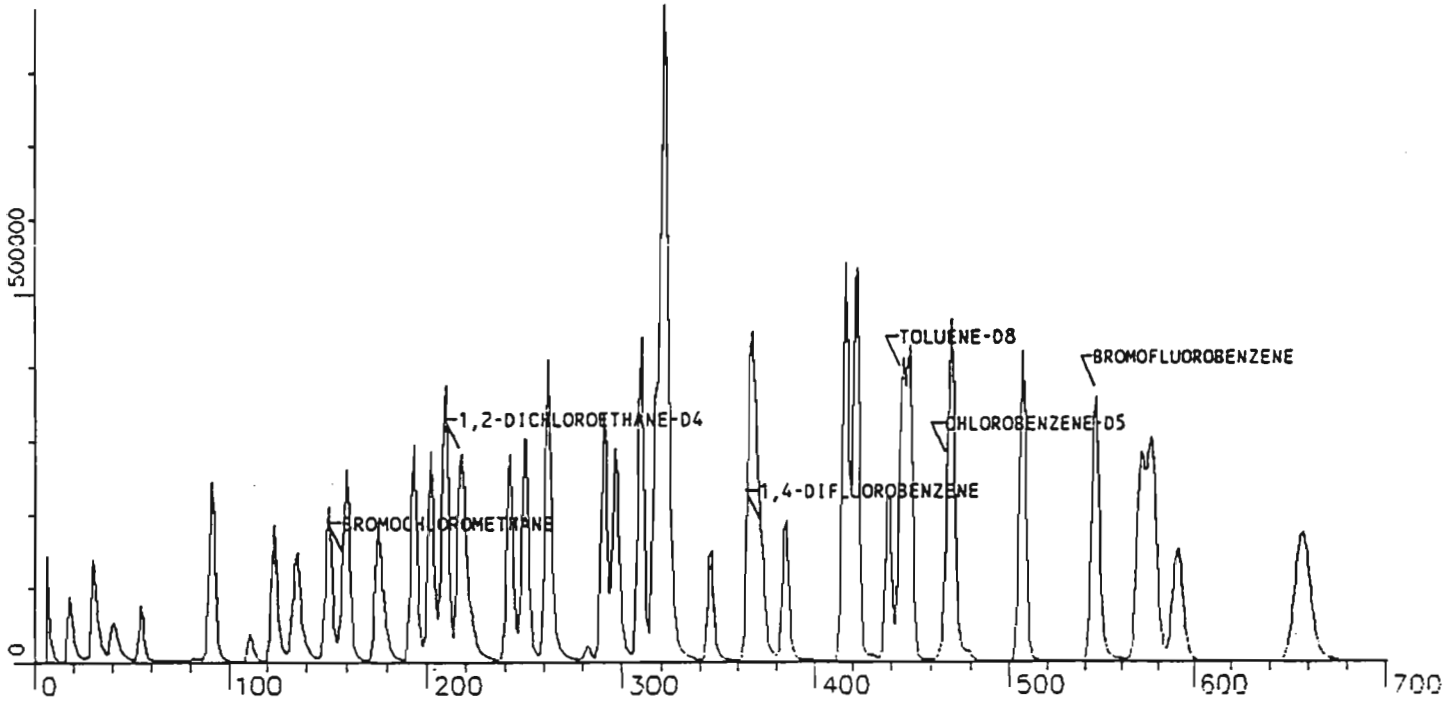
LAB FILE ID: RRF20 =CKW020HV RRF50 =CKV050FHV
RRF100=CKW100HV RRF150=CKW150HV RRF200=CKW200HV

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

Sample: VSTD200 CRV#CKQ
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKQ Submitted by: AQUTEC
Volume: 5.000 ml

05/15/90 1258
OWAC -- SPS

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	0:54	0	0.114	1.00	220.00	220.00	1.527	1.527	1.00	2	CHLOROMETHANE
3	1:30	0	0.190	1.00	220.00	220.00	1.379	1.379	1.00	3	BROMOMETHANE
4	2:03	0	0.259	1.00	200.00	200.00	1.280	1.280	1.00	4	VINYL CHLORIDE
5	2:45	0	0.348	1.00	220.00	220.00	0.810	0.810	1.00	5	CHLOROETHANE
6	4:33	0	0.576	1.00	200.00	200.00	1.616	1.616	1.00	6	METHYLENE CHLORIDE
7	5:33	0	0.703	1.00	200.00	200.00	0.629	0.629	1.00	7	ACETONE
8	5:33	0	0.703	1.00	200.00	200.00	0.228	0.228	1.00	8	ACROLEIN
9	6:12	0	0.785	1.00	200.00	200.00	0.488	0.488	1.00	9	ACRYLONITRILE
10	6:09	0	0.778	1.00	200.00	200.00	4.698	4.698	1.00	10	CARBON DISULFIDE
11	6:45	0	0.854	1.00	200.00	200.00	2.690	2.690	1.00	11	TRICHLOROFLUOROMETHANE
12	7:33	0	0.956	1.00	200.00	200.00	1.407	1.407	1.00	12	1,1-DICHLOROETHENE
14	8:48	0	1.114	1.00	200.00	200.00	2.986	2.986	1.00	14	1,1-DICHLOROETHANE
15	8:57	0	1.133	1.00	200.00	200.00	0.197	0.197	1.00	15	TETRAHYDROFURAN
16	9:39	0	1.222	1.00	200.00	200.00	1.649	1.649	1.00	16	1,2-DICHLOROETHENE (TOTAL)
17	10:06	0	1.278	1.00	200.00	200.00	3.669	3.669	1.00	17	CHLOROFORM
18	10:57	0	1.386	1.00	200.00	200.00	2.793	2.793	1.00	18	1,2-DICHLOROETHANE
20	11:12	0	1.418	1.00	200.00	200.00	0.173	0.173	1.00	20	2-BUTANONE
21	10:30	0	0.565	1.00	200.00	200.00	0.582	0.582	1.00	21	FREON TF
22	12:09	0	0.653	1.00	200.00	200.00	0.533	0.533	1.00	22	1,1,1-TRICHLOROETHANE
23	12:30	0	0.672	1.00	200.00	200.00	0.563	0.563	1.00	23	CARBON TETRACHLORIDE
24	13:06	0	0.704	1.00	200.00	200.00	0.665	0.665	1.00	24	VINYL ACETATE
25	13:06	0	0.704	1.00	200.00	200.00	0.741	0.741	1.00	25	BROMODICHLOROMETHANE
26	14:33	0	0.782	1.00	200.00	200.00	0.419	0.419	1.00	26	1,2-DICHLOROPROPANE
27	14:51	0	0.798	1.00	200.00	200.00	0.593	0.593	1.00	27	CIS-1,3-DICHLOROPROPENE
28	15:30	0	0.833	1.00	200.00	200.00	0.460	0.460	1.00	28	TRICHLOROETHENE
29	15:51	0	0.852	1.00	200.00	200.00	0.641	0.641	1.00	29	DIBROMOCHLOROMETHANE
30	18:18	0	0.984	1.00	200.00	200.00	0.237	0.237	1.00	30	METHYLCYCLOHEXANE
31	16:03	0	0.863	1.00	200.00	200.00	0.415	0.415	1.00	31	1,1,2-TRICHLOROETHANE
32	16:03	0	0.863	1.00	200.00	200.00	1.055	1.055	1.00	32	BENZENE
33	16:09	0	0.868	1.00	200.00	200.00	0.552	0.552	1.00	33	TRANS-1,3-DICHLOROPROPENE
34	17:18	0	0.930	1.00	200.00	200.00	0.224	0.224	1.00	34	2-CHLOROETHYLVINYLETHER
35	18:27	0	0.992	1.00	200.00	200.00	0.498	0.498	1.00	35	BROMOFORM
37	19:15	0	0.823	1.00	200.00	200.00	0.735	0.735	1.00	37	4-METHYL-2-PENTANONE
38	20:48	0	0.889	1.00	200.00	200.00	0.635	0.635	1.00	38	2-HEXANONE
39	20:48	0	0.889	1.00	200.00	200.00	0.985	0.985	1.00	39	1,1,2,2-TETRACHLOROETHANE
40	21:03	0	0.900	1.00	200.00	200.00	0.499	0.499	1.00	40	TETRACHLOROETHENE
41	21:54	0	0.936	1.00	200.00	200.00	0.352	0.352	1.00	41	BUTYL ACETATE
43	22:27	0	0.959	1.00	200.00	200.00	0.741	0.741	1.00	43	TOLUENE
44	23:30	0	1.004	1.00	200.00	200.00	1.018	1.018	1.00	44	CHLOROBENZENE
45	25:21	0	1.083	1.00	200.00	200.00	0.449	0.449	1.00	45	ETHYLBENZENE
47	28:33	0	1.220	1.00	200.00	200.00	0.917	0.917	1.00	47	STYRENE
48	28:51	0	1.233	1.00	200.00	200.00	0.569	0.569	1.00	48	M-XYLENE
49	29:33	0	1.263	1.00	120.00	120.00	0.523	0.523	1.00	49	O- & P-XYLENE
50	32:51	0	1.404	1.00	200.00	200.00	0.789	0.789	1.00	50	O-DICHLOROBENZENE
51	8:00	0	1.013	1.00	200.00	200.00	1.247	1.247	1.00	51	CYCLOPENTANE
52	28:51	0	1.233	1.00	200.00	200.00	0.569	0.569	1.00	52	XYLENE (TOTAL)
53	7:00	0	0.886	1.00	200.00	200.00	0.059	0.059	1.00	53	2-PROPANOL

PROCEDURE: TCA DIAGNOSTIC REPORT 5/15/90 13:36:15
DATA FILE: CKQ200HV
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	13	10	12	64	UMRET1/UMUNK1
2	2	1	0	14	13	24	59	UMRET2/UMUNK2
2	2	1	0	13	13	4	83	UMRET2/UMUNK3
2	2	1	0	9	9	2	61	UMRET3/UMUNK4
1	1	1	0	8	8	8	54	UMRET4/UMUNK5

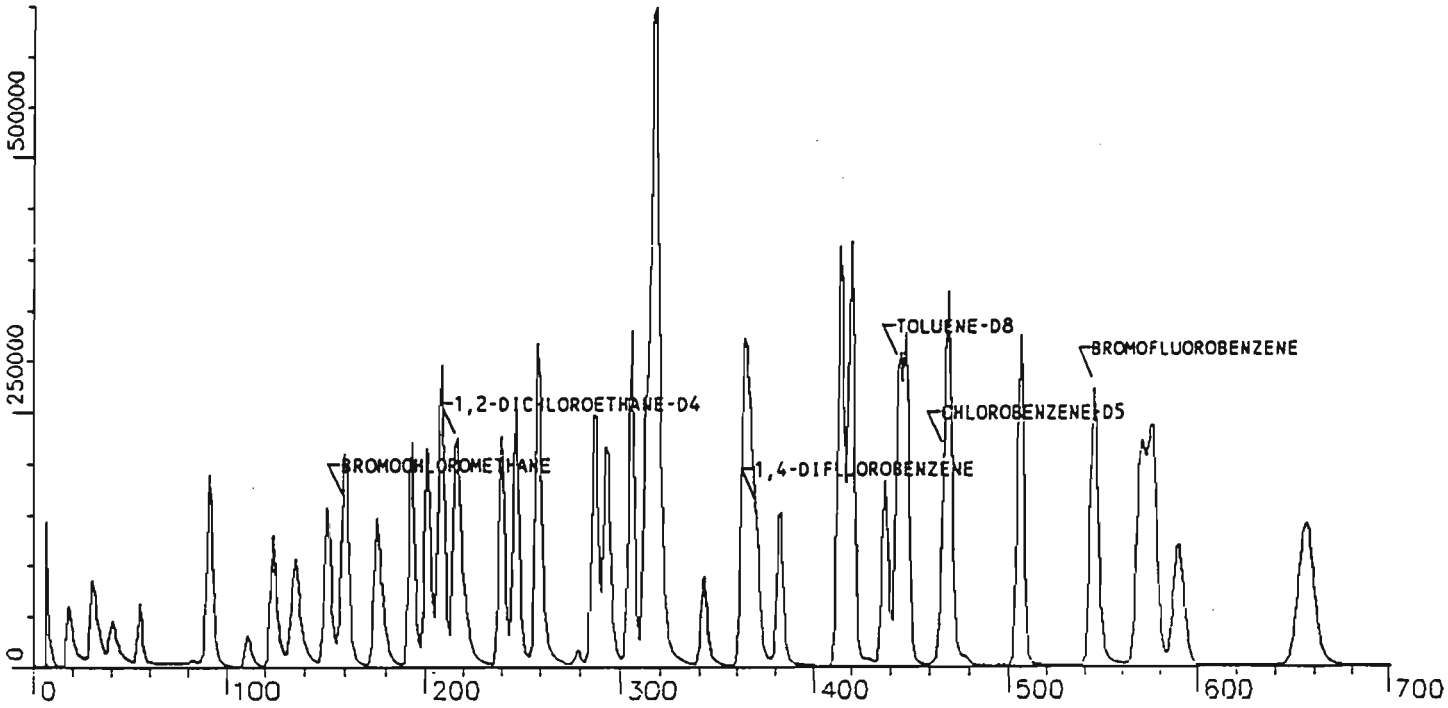
52 COMPOUNDS PROCESSED, 48 FOUND

COMPOUND			SEARCH					SAT	CHRO			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	UM	1	-157	159	159	.	1	983	.	128	158	-1	1
2	UM	2	-17	19	18	-1	2	988	.	50	18	.	1
3	UM	3	-29	31	.	.	.	.	.	94	30	.	1
4	UM	4	-39	41	41	.	2	999	.	62	41	.	1
5	UM	5	-53	55	55	.	3	993	.	64	55	.	1
6	UM	6	-90	92	91	-1	1	993	.	84	91	.	1
7	UM	7	-108	110	111	1	1	986	.	43	111	.	1
8	UM	8	-109	111	111	.	1	998	.	56	111	.	1
9	UM	9	-123	125	.	.	.	.	.	53	124	.	1
10	UM	10	-122	124	123	-1	1	999	.	76	123	.	1
11	UM	11	-133	135	135	.	1	990	.	101	135	.	1
12	UM	12	-149	151	151	.	1	994	.	96	151	.	1
13	UM	53	-138	140	.	.	.	.	.	45	140	.	1
14	UM	13	-368	373	373	.	1	993	.	114	372	-1	1
15	UM	51	-158	160	160	.	1	993	.	55	160	.	1
16	UM	14	-174	176	176	.	1	998	.	63	176	.	1
17	UM	15	-177	179	.	.	.	.	.	71	179	.	1
18	UM	16	-191	193	193	.	3	996	.	96	193	.	1
19	UM	17	-201	203	202	-1	2	997	.	83	202	.	1
20	UM	18	-217	220	219	-1	1	979	.	62	219	.	1
21	UM	19	-215	218	217	-1	1	997	.	65	217	.	1
22	UM	20	-220	223	223	.	2	997		72	224	1	1
23	UM	21	-207	209	210	1	1	998	.	101	210	.	1
24	UM	22	-240	243	243	.	1	996		97	243	.	1
25	UM	23	-247	250	250	.	2	993	.	117	250	.	1
26	UM	24	-258	261	262	1	1	1000	.	43	262	.	1
27	UM	25	-260	263	262	-1	1	988		83	262	.	1
28	UM	26	-288	291	291	.	1	981		63	291	.	1
29	UM	27	-294	297	297	.	2	983	.	75	297	.	1
30	UM	28	-306	309	310	1	1	994		130	310	.	1
31	UM	29	-315	318	317	-1	1	1000	.	129	317	.	1
32	UM	30	-362	366	366	.	1	992		98	366	.	1
33	UM	31	-318	321	321	.	1	994	.	97	321	.	1
34	UM	32	-317	320	321	1	1	997		78	321	.	1
35	UM	33	-320	323	322	-1	2	993	.	75	323	1	1
36	UM	34	-342	346	346	.	1	988		63	346	.	1
37	UM	35	-366	370	369	-1	1	987	.	173	369	.	1
38	UM	36	-464	468	468	.	1	989	.	117	468	.	1
39	UM	37	-381	385	385	.	1	989	.	43	385	.	1
40	UM	38	-412	416	416	.	1	958		43	416	.	1
41	UM	39	-413	417	416	-1	2	994	.	83	416	.	1
42	UM	40	-418	422	421	-1	1	982		164	421	.	1
43	UM	41	-435	439	439	.	1	995	.	56	438	-1	1
44	UM	42	-441	445	445		1	993		98	445		1

000200

48	UN	46	-541	547	546	-1	1	994	.	95	546	.	1
49	UN	47	-565	571	571	.	2	1000	.	104	571	.	1
50	UN	48	-571	577	577	.	2	998	.	106	577	.	1
51	UN	49	-584	590	591	1	2	992	.	106	591	.	1
52	UN	50	-650	657	657	.	1	992	.	146	657	.	1

Sample: VSTD150 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	159	7:57	1	1.000	A BB	25060.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	370	18:30	13	1.000	A BB	122151.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	467	23:21	36	1.000	A BB	105007.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	216	10:48	1	1.358	A BB	193797.	150.000 PPB	300.0	19	1,2-DICHLOROETHANE-D4
42	98	444	22:12	36	0.951	A BB	355754.	150.000 PPB	300.0	42	TOLUENE-D8
46	95	545	27:15	36	1.167	A BB	247550.	150.000 PPB	300.0	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	18:30	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	10:48	0	1.358	1.00	150.00	150.00	2.578	2.578	1.00	19	1,2-DICHLOROETHANE-D4
42	22:12	0	0.951	1.00	150.00	150.00	1.129	1.129	1.00	42	TOLUENE-D8
46	27:15	0	1.167	1.00	150.00	150.00	0.786	0.786	1.00	46	BROMOFLUOROBENZENE

CKQ150HV (05/15/90 13:52) RFs loaded on OWAC 5/16/90 8:15:47

05/15/90 1352
OWAC -- SPS

Sample: VSTD150 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	0.113	A BB	116886.	165.000 PPB		2	CHLOROMETHANE
3	94	30	1:30	1	0.189	A BB	112359.	165.000 PPB		3	BROMOMETHANE
4	62	41	2:03	1	0.258	A BB	101982.	150.000 PPB		4	VINYL CHLORIDE
5	64	55	2:45	1	0.346	A VB	66090.	165.000 PPB		5	CHLOROETHANE
6	84	91	4:33	1	0.572	A BB	123085.	150.000 PPB		6	METHYLENE CHLORIDE
7	43	111	5:33	1	0.698	A BV	57565.	150.000 PPB		7	ACETONE
8	56	112	5:36	1	0.704	A BB	16385.	150.000 PPB		8	ACROLEIN
9	53	124	6:12	1	0.780	A BV	36876.	150.000 PPB		9	ACRYLONITRILE
10	76	124	6:12	1	0.780	A BB	337566.	150.000 PPB		10	CARBON DISULFIDE
11	101	135	6:45	1	0.849	A BV	198430.	150.000 PPB		11	TRICHLOROFLUOROMETHANE
12	96	151	7:33	1	0.950	A BB	105822.	150.000 PPB		12	1,1-DICHLOROETHENE
14	63	176	8:48	1	1.107	A BV	222184.	150.000 PPB		14	1,1-DICHLOROETHANE
15	71	179	8:57	1	1.126	A BV	15792.	150.000 PPB		15	TETRAHYDROFURAN
16	96	193	9:39	1	1.214	A BB	124092.	150.000 PPB		16	1,2-DICHLOROETHENE (TOTAL)
17	83	201	10:03	1	1.264	A BB	269371.	150.000 PPB		17	CHLOROFORM
18	62	218	10:54	1	1.371	A BB	204286.	150.000 PPB		18	1,2-DICHLOROETHANE
20	72	222	11:06	1	1.396	A BB	14751.	150.000 PPB		20	2-BUTANONE
21	101	209	10:27	13	0.565	A BB	219036.	150.000 PPB		21	FREON TF
22	97	240	12:00	13	0.649	A BB	209321.	150.000 PPB		22	1,1,1-TRICHLOROETHANE
23	117	248	12:24	13	0.670	A VB	216654.	150.000 PPB		23	CARBON TETRACHLORIDE
24	43	259	12:57	13	0.700	A BV	257108.	150.000 PPB		24	VINYL ACETATE
25	83	259	12:57	13	0.700	A BB	277622.	150.000 PPB		25	BROMODICHLOROMETHANE
26	63	287	14:21	13	0.776	A BB	160156.	150.000 PPB		26	1,2-DICHLOROPROPANE
27	75	293	14:39	13	0.792	A BB	225620.	150.000 PPB		27	CIS-1,3-DICHLOROPROPENE
28	130	306	15:18	13	0.827	A BB	176991.	150.000 PPB		28	TRICHLOROETHENE
29	129	313	15:39	13	0.846	A BB	239276.	150.000 PPB		29	DIBROMOCHLOROMETHANE
30	98	364	18:12	13	0.984	A BB	90574.	150.000 PPB		30	METHYLCYCLOHEXANE
31	97	317	15:51	13	0.857	A VB	159696.	150.000 PPB		31	1,1,2-TRICHLOROETHANE
32	78	317	15:51	13	0.857	A BB	398002.	150.000 PPB		32	BENZENE
33	75	319	15:57	13	0.862	A BB	202855.	150.000 PPB		33	TRANS-1,3-DICHLOROPROPENE
34	63	343	17:09	13	0.927	A BB	69446.	150.000 PPB		34	2-CHLOROETHYLVINYLETHER
35	173	367	18:21	13	0.992	A BB	191366.	150.000 PPB		35	BROMOFORM
37	43	383	19:09	36	0.820	A BB	248121.	150.000 PPB		37	4-METHYL-2-PENTANONE
38	43	415	20:45	36	0.889	A BB	218661.	150.000 PPB		38	2-HEXANONE
39	83	414	20:42	36	0.887	A BV	327153.	150.000 PPB		39	1,1,2,2-TETRACHLOROETHANE
40	164	420	21:00	36	0.899	A BB	159532.	150.000 PPB		40	TETRACHLOROETHENE
41	56	437	21:51	36	0.936	A BB	119088.	150.000 PPB		41	BUTYL ACETATE
43	92	448	22:24	36	0.959	A BB	242444.	150.000 PPB		43	TOLUENE
44	112	469	23:27	36	1.004	A BB	332253.	150.000 PPB		44	CHLOROBENZENE
45	106	506	25:18	36	1.084	A BB	145974.	150.000 PPB		45	ETHYLBENZENE
47	104	570	28:30	36	1.221	A BV	298549.	150.000 PPB		47	STYRENE
48	106	576	28:48	36	1.233	A BV	183689.	150.000 PPB		48	M-XYLENE
49	106	589	29:27	36	1.261	A VB	100572.	90.000 PPB		49	O- & P-XYLENE
50	146	656	32:48	36	1.405	A BB	260673.	150.000 PPB		50	O-DICHLOROBENZENE
51	55	160	8:00	1	1.006	A BB	93460.	150.000 PPB		51	CYCLOPENTANE
52	106	576	28:48	36	1.233	A BV	183689.	150.000 PPB		52	XYLENE (TOTAL)
53	45	141	7:03	1	0.887	A BB	5111.	150.000 PPB		53	2-PROPANOL

CKQ150HV 3

05/15/90 1352
OWAC -- SPS

Sample: VSTD150 CRV#CKQ
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKQ Submitted by: AQUTEC
Volume: 5.000 ml

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	0:54	0	0.113	1.00	165.00	165.00	1.413	1.413	1.00	2	CHLOROMETHANE
3	1:30	0	0.189	1.00	165.00	165.00	1.359	1.359	1.00	3	BROMOMETHANE
4	2:03	0	0.258	1.00	150.00	150.00	1.357	1.357	1.00	4	VINYL CHLORIDE
5	2:45	0	0.346	1.00	165.00	165.00	0.799	0.799	1.00	5	CHLOROETHANE
6	4:33	0	0.572	1.00	150.00	150.00	1.637	1.637	1.00	6	METHYLENE CHLORIDE
7	5:33	0	0.698	1.00	150.00	150.00	0.766	0.766	1.00	7	ACETONE
8	5:36	0	0.704	1.00	150.00	150.00	0.218	0.218	1.00	8	ACROLEIN
9	6:12	0	0.780	1.00	150.00	150.00	0.490	0.490	1.00	9	ACRYLONITRILE
10	6:12	0	0.780	1.00	150.00	150.00	4.490	4.490	1.00	10	CARBON DISULFIDE
11	6:45	0	0.849	1.00	150.00	150.00	2.639	2.639	1.00	11	TRICHLOROFLUOROMETHANE
12	7:33	0	0.950	1.00	150.00	150.00	1.408	1.408	1.00	12	1,1-DICHLOROETHENE
14	8:48	0	1.107	1.00	150.00	150.00	2.955	2.955	1.00	14	1,1-DICHLOROETHANE
15	8:57	0	1.126	1.00	150.00	150.00	0.210	0.210	1.00	15	TETRAHYDROFURAN
16	9:39	0	1.214	1.00	150.00	150.00	1.651	1.651	1.00	16	1,2-DICHLOROETHENE (TOTAL)
17	10:03	0	1.264	1.00	150.00	150.00	3.583	3.583	1.00	17	CHLOROFORM
18	10:54	0	1.371	1.00	150.00	150.00	2.717	2.717	1.00	18	1,2-DICHLOROETHANE
20	11:06	0	1.396	1.00	150.00	150.00	0.196	0.196	1.00	20	2-BUTANONE
21	10:27	0	0.565	1.00	150.00	150.00	0.598	0.598	1.00	21	FREON TF
22	12:00	0	0.649	1.00	150.00	150.00	0.571	0.571	1.00	22	1,1,1-TRICHLOROETHANE
23	12:24	0	0.670	1.00	150.00	150.00	0.591	0.591	1.00	23	CARBON TETRACHLORIDE
24	12:57	0	0.700	1.00	150.00	150.00	0.702	0.702	1.00	24	VINYL ACETATE
25	12:57	0	0.700	1.00	150.00	150.00	0.758	0.758	1.00	25	BROMODICHLOROMETHANE
26	14:21	0	0.776	1.00	150.00	150.00	0.437	0.437	1.00	26	1,2-DICHLOROPROPANE
27	14:39	0	0.792	1.00	150.00	150.00	0.616	0.616	1.00	27	CIS-1,3-DICHLOROPROPENE
28	15:18	0	0.827	1.00	150.00	150.00	0.483	0.483	1.00	28	TRICHLOROETHENE
29	15:39	0	0.846	1.00	150.00	150.00	0.653	0.653	1.00	29	DIBROMOCHLOROMETHANE
30	18:12	0	0.984	1.00	150.00	150.00	0.247	0.247	1.00	30	METHYLCYCLOHEXANE
31	15:51	0	0.857	1.00	150.00	150.00	0.436	0.436	1.00	31	1,1,2-TRICHLOROETHANE
32	15:51	0	0.857	1.00	150.00	150.00	1.086	1.086	1.00	32	BENZENE
33	15:57	0	0.862	1.00	150.00	150.00	0.554	0.554	1.00	33	TRANS-1,3-DICHLOROPROPENE
34	17:09	0	0.927	1.00	150.00	150.00	0.190	0.190	1.00	34	2-CHLOROETHYLVINYLETHER
35	18:21	0	0.992	1.00	150.00	150.00	0.522	0.522	1.00	35	BROMOFORM
37	19:09	0	0.820	1.00	150.00	150.00	0.788	0.788	1.00	37	4-METHYL-2-PENTANONE
38	20:45	0	0.889	1.00	150.00	150.00	0.694	0.694	1.00	38	2-HEXANONE
39	20:42	0	0.887	1.00	150.00	150.00	1.039	1.039	1.00	39	1,1,2,2-TETRACHLOROETHANE
40	21:00	0	0.899	1.00	150.00	150.00	0.506	0.506	1.00	40	TETRACHLOROETHENE
41	21:51	0	0.936	1.00	150.00	150.00	0.378	0.378	1.00	41	BUTYL ACETATE
43	22:24	0	0.959	1.00	150.00	150.00	0.770	0.770	1.00	43	TOLUENE
44	23:27	0	1.004	1.00	150.00	150.00	1.055	1.055	1.00	44	CHLOROBENZENE
45	25:18	0	1.084	1.00	150.00	150.00	0.463	0.463	1.00	45	ETHYLBENZENE
47	28:30	0	1.221	1.00	150.00	150.00	0.948	0.948	1.00	47	STYRENE
48	28:48	0	1.233	1.00	150.00	150.00	0.583	0.583	1.00	48	M-XYLENE
49	29:27	0	1.261	1.00	90.00	90.00	0.532	0.532	1.00	49	O- & P-XYLENE
50	32:48	0	1.405	1.00	150.00	150.00	0.827	0.827	1.00	50	O-DICHLOROBENZENE
51	8:00	0	1.006	1.00	150.00	150.00	1.243	1.243	1.00	51	CYCLOPENTANE
52	28:48	0	1.233	1.00	150.00	150.00	0.583	0.583	1.00	52	XYLENE (TOTAL)
53	7:03	0	0.887	1.00	150.00	150.00	0.068	0.068	1.00	53	2-PROPANOL

PROCEDURE: TCA DIAGNOSTIC REPORT 5/15/90 14:29:25
ATA FILE: CKQ150HV
EFERENCE: 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	10	12	65	UMRET1/UMUNK1
2	2	1	0	14	13	24	80	UMRET2/UMUNK2
2	2	1	0	13	13	4	133	UMRET2/UMUNK3
2	2	1	0	4	0	2	65	UMRET3/UMUNK4
1	1	1	0	8	8	4	38	UMRET4/UMUNK5

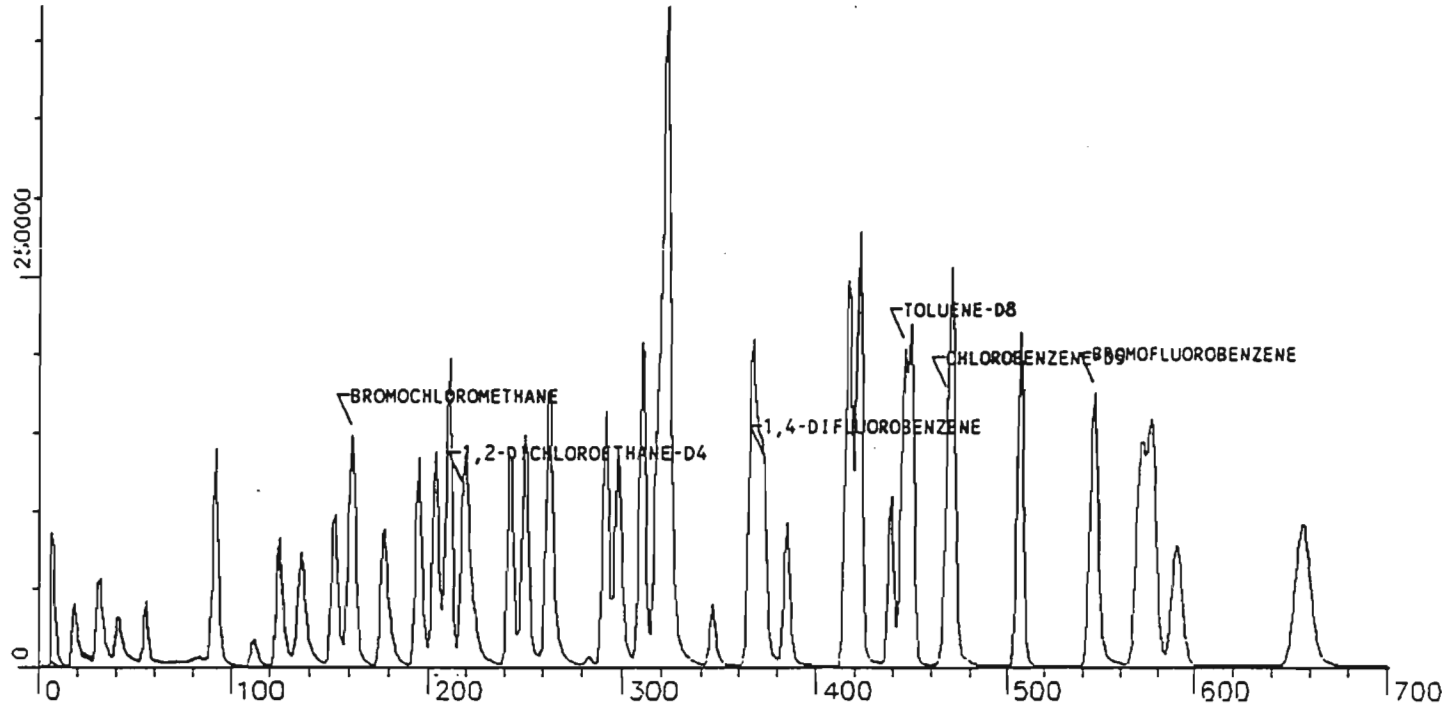
52 COMPOUNDS PROCESSED: 48 FOUND

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	159	159	.	1	985	.	128	159	.	1
2	UM	2	-17	19	18	-1	2	989	.	50	18	.	1
3	UM	3	-29	31	.	.	.	.	.	94	30	.	1
4	UM	4	-39	41	41	.	3	1000	.	82	41	.	1
5	UM	5	-53	55	55	.	1	993	.	64	55	.	1
6	UM	6	-90	92	91	-1	1	993	.	84	91	.	1
7	UM	7	-108	110	111	1	2	987	.	43	111	.	1
8	UM	8	-109	111	112	1	1	999	.	56	112	.	1
9	UM	9	-123	125	.	.	.	.	.	53	124	.	1
10	UM	10	-122	124	124	.	1	998	.	76	124	.	1
11	UM	11	-133	135	135	.	1	989	.	101	135	.	1
12	UM	12	-149	151	151	.	1	990	.	96	151	.	1
13	UM	53	-138	140	.	.	.	.	.	45	141	.	1
14	UM	13	-368	370	370	.	1	996	.	114	370	.	1
15	UM	51	-158	159	160	1	1	993	.	55	160	.	1
16	UM	14	-174	175	176	1	1	995	.	63	176	.	1
17	UM	15	-177	178	.	.	.	.	.	71	179	.	1
18	UM	16	-191	192	193	1	2	996	.	96	193	.	1
19	UM	17	-201	202	201	-1	2	996	.	83	201	.	1
20	UM	18	-217	218	218	.	1	976	.	62	218	.	1
21	UM	19	-215	216	216	.	1	1000	.	65	216	.	1
22	UM	20	-220	221	222	1	3	998	.	72	222	.	1
23	UM	21	-207	208	209	1	1	997	.	101	209	.	1
24	UM	22	-240	241	240	-1	1	996	.	97	240	.	1
25	UM	23	-247	248	248	.	2	992	.	117	248	.	1
26	UM	24	-258	259	259	.	1	1000	.	43	259	.	1
27	UM	25	-260	260	259	-1	1	989	.	83	259	.	1
28	UM	26	-288	288	287	-1	1	979	.	63	287	.	1
29	UM	27	-294	294	293	-1	2	974	.	75	293	.	1
30	UM	28	-306	306	306	.	1	997	.	130	306	.	1
31	UM	29	-315	315	314	-1	1	1000	.	129	313	-1	1
32	UM	30	-362	360	364	2	1	995	.	98	364	.	1
33	UM	31	-318	318	317	-1	1	989	.	97	317	.	1
34	UM	32	-317	317	317	.	1	994	.	78	317	.	1
35	UM	33	-320	320	319	-1	2	995	.	75	319	.	1
36	UM	34	-342	342	343	1	1	987	.	63	343	.	1
37	UM	35	-366	366	367	1	1	985	.	172	367	.	1
38	UM	36	-464	467	467	.	1	992	.	117	467	.	1
39	UM	37	-381	383	383	.	2	989	.	43	383	.	1
40	UM	38	-412	414	415	1	1	956	.	43	415	.	1
41	UM	39	-413	415	414	-1	1	997	.	83	414	.	1
42	UM	40	-418	420	420	.	1	977	.	164	420	.	1
43	UM	41	-435	438	437	-1	1	995	.	56	437	.	1
44	UM	42	-441	444	444	.	1	993	.	98	444	.	1
45	UM	43	-445	448	448	.	1	991	.	92	448	.	1
46	UM	44	-466	470	469	-1	1	997	.	112	469	.	1
47	UM	45	-502	506	506	.	1	995	.	106	506	.	1
48	UM	46	-541	545	545	.	1	997	.	95	545	.	1
49	UM	47	-565	570	570	.	2	1000	.	104	570	.	1
50	UM	48	-571	576	576	.	1	994	.	106	576	.	1
51	UM	49	-584	589	589	.	2	987	.	106	589	.	1
52	UM	50	-650	656	656	.	1	992	.	146	656	.	1

CKQ100HV 1

05/15/90 1538
OWAC -- CMP

Sample: VSTD100 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	161	8:03	1	1.000	A BB	24935.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	373	18:39	13	1.000	A BB	125717.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	468	23:24	36	1.000	A BB	104763.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	218	10:54	1	1.354	A BV	122582.	100.000 PPB	200.0	19	1,2-DICHLOROETHANE-D4
42	98	446	22:18	36	0.953	A BB	229971.	100.000 PPB	200.0	42	TOLUENE-D8
46	95	546	27:18	36	1.167	A BB	159146.	100.000 PPB	200.0	46	BROMOFLUOROBENZENE

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
1	8:03	0	1.000	1.00	50.00	50.00	1.000	1.000	1.00	1	BROMOCHLOROMETHANE
13	18:39	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	10:54	0	1.354	1.00	100.00	100.00	2.458	2.458	1.00	19	1,2-DICHLOROETHANE-D4
42	22:18	0	0.953	1.00	100.00	100.00	1.098	1.098	1.00	42	TOLUENE-D8
46	27:18	0	1.167	1.00	100.00	100.00	0.760	0.760	1.00	46	BROMOFLUOROBENZENE

CKQ100HV (05/15/90 15:38) RFs loaded on OWAC 5/16/90 8:20:02

CKQ100HV 2
05/15/90 1538
OWAC -- CMP

Sample: VSTD100 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	19	0:57	1	0.118	A BV	72489.	110.000 PPB		2	CHLOROMETHANE
3	94	32	1:36	1	0.199	A BB	67331.	110.000 PPB		3	BROMOMETHANE
4	62	41	2:03	1	0.255	A BV	62107.	100.000 PPB		4	VINYL CHLORIDE
5	64	56	2:48	1	0.348	A VB	42982.	110.000 PPB		5	CHLOROETHANE
6	84	92	4:36	1	0.571	A BB	86201.	100.000 PPB		6	METHYLENE CHLORIDE
7	43	112	5:36	1	0.696	A BV	36450.	100.000 PPB		7	ACETONE
8	56	113	5:39	1	0.702	A BB	9496.	100.000 PPB		8	ACROLEIN
9	53	126	6:18	1	0.783	A BB	21007.	100.000 PPB		9	ACRYLONITRILE
10	76	125	6:15	1	0.776	A BB	217842.	100.000 PPB		10	CARBON DISULFIDE
11	101	136	6:48	1	0.845	A BV	126921.	100.000 PPB		11	TRICHLOROFLUOROMETHANE
12	96	153	7:39	1	0.950	A BB	66362.	100.000 PPB		12	1,1-DICHLOROETHENE
14	63	178	8:54	1	1.106	A BB	144520.	100.000 PPB		14	1,1-DICHLOROETHANE
15	71	181	9:03	1	1.124	A BB	8796.	100.000 PPB		15	TETRAHYDROFURAN
16	96	195	9:45	1	1.211	A BB	81805.	100.000 PPB		16	1,2-DICHLOROETHENE (TOTAL)
17	83	204	10:12	1	1.267	A BB	178132.	100.000 PPB		17	CHLOROFORM
18	62	220	11:00	1	1.366	A BB	129192.	100.000 PPB		18	1,2-DICHLOROETHANE
20	72	224	11:12	1	1.391	A BB	9500.	100.000 PPB		20	2-BUTANONE
21	101	211	10:33	13	0.566	A BB	142798.	100.000 PPB		21	FREON TF
22	97	243	12:09	13	0.651	A BB	132640.	100.000 PPB		22	1,1,1-TRICHLOROETHANE
23	117	251	12:33	13	0.673	A VV	134932.	100.000 PPB		23	CARBON TETRACHLORIDE
24	43	263	13:09	13	0.705	A BB	150605.	100.000 PPB		24	VINYL ACETATE
25	83	264	13:12	13	0.708	A BB	178046.	100.000 PPB		25	BROMODICHLOROMETHANE
26	63	292	14:36	13	0.783	A BB	101882.	100.000 PPB		26	1,2-DICHLOROPROPANE
27	75	298	14:54	13	0.799	A BB	141706.	100.000 PPB		27	CIS-1,3-DICHLOROPROPENE
28	130	310	15:30	13	0.831	A BB	115057.	100.000 PPB		28	TRICHLOROETHENE
29	129	318	15:54	13	0.853	A BB	151049.	100.000 PPB		29	DIBROMOCHLOROMETHANE
30	98	366	18:18	13	0.981	A BB	59066.	100.000 PPB		30	METHYLCYCLOHEXANE
31	97	321	16:03	13	0.861	A VB	102693.	100.000 PPB		31	1,1,2-TRICHLOROETHANE
32	78	322	16:06	13	0.863	A BB	261837.	100.000 PPB		32	BENZENE
33	75	323	16:09	13	0.866	A BB	125445.	100.000 PPB		33	TRANS-1,3-DICHLOROPROPENE
34	63	346	17:18	13	0.928	A BB	27161.	100.000 PPB		34	2-CHLOROETHYLVINYLETHER
35	173	370	18:30	13	0.992	A BB	117884.	100.000 PPB		35	BROMOFORM
37	43	385	19:15	36	0.823	A BB	144130.	100.000 PPB		37	4-METHYL-2-PENTANONE
38	43	417	20:51	36	0.891	A BB	126071.	100.000 PPB		38	2-HEXANONE
39	83	416	20:48	36	0.889	A BB	199996.	100.000 PPB		39	1,1,2,2-TETRACHLOROETHANE
40	164	422	21:06	36	0.902	A BB	106437.	100.000 PPB		40	TETRACHLOROETHENE
41	56	439	21:57	36	0.938	A BB	71915.	100.000 PPB		41	BUTYL ACETATE
43	92	449	22:27	36	0.959	A BB	156899.	100.000 PPB		43	TOLUENE
44	112	470	23:30	36	1.004	A BB	216062.	100.000 PPB		44	CHLOROBENZENE
45	106	507	25:21	36	1.083	A BB	95340.	100.000 PPB		45	ETHYLBENZENE
47	104	571	28:33	36	1.220	A BV	194255.	100.000 PPB		47	STYRENE
48	106	576	28:48	36	1.231	A BV	122572.	100.000 PPB		48	M-XYLENE
49	106	590	29:30	36	1.261	A VB	66248.	60.000 PPB		49	O- & P-XYLENE
50	146	656	32:48	36	1.402	A BB	168787.	100.000 PPB		50	O-DICHLOROBENZENE
51	55	162	8:06	1	1.006	A BB	59998.	100.000 PPB		51	CYCLOPENTANE
52	106	576	28:48	36	1.231	A BV	122572.	100.000 PPB		52	XYLENE (TOTAL)
53	45	142	7:06	1	0.882	A BB	2583.	100.000 PPB		53	2-PROPANOL

Sample: VSTD100 CRV#CKQ
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKQ Submitted by: AQUTEC
Volume: 5.000 ml

05/15/90 1538
OWAC -- CMP

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	0:57	0	0.118	1.00	110.00	110.00	1.321	1.321	1.00	2	CHLOROMETHANE
3	1:36	0	0.199	1.00	110.00	110.00	1.227	1.227	1.00	3	BROMOMETHANE
4	2:03	0	0.255	1.00	100.00	100.00	1.245	1.245	1.00	4	VINYL CHLORIDE
5	2:48	0	0.348	1.00	110.00	110.00	0.784	0.784	1.00	5	CHLOROETHANE
6	4:36	0	0.571	1.00	100.00	100.00	1.729	1.729	1.00	6	METHYLENE CHLORIDE
7	5:36	0	0.696	1.00	100.00	100.00	0.731	0.731	1.00	7	ACETONE
8	5:39	0	0.702	1.00	100.00	100.00	0.190	0.190	1.00	8	ACROLEIN
9	6:18	0	0.783	1.00	100.00	100.00	0.421	0.421	1.00	9	ACRYLONITRILE
10	6:15	0	0.776	1.00	100.00	100.00	4.368	4.368	1.00	10	CARBON DISULFIDE
11	6:48	0	0.845	1.00	100.00	100.00	2.545	2.545	1.00	11	TRICHLOROFLUOROMETHANE
12	7:39	0	0.950	1.00	100.00	100.00	1.331	1.331	1.00	12	1,1-DICHLOROETHENE
14	8:54	0	1.106	1.00	100.00	100.00	2.898	2.898	1.00	14	1,1-DICHLOROETHANE
15	9:03	0	1.124	1.00	100.00	100.00	0.176	0.176	1.00	15	TETRAHYDROFURAN
16	9:45	0	1.211	1.00	100.00	100.00	1.640	1.640	1.00	16	1,2-DICHLOROETHENE (TOTAL)
17	10:12	0	1.267	1.00	100.00	100.00	3.572	3.572	1.00	17	CHLOROFORM
18	11:00	0	1.366	1.00	100.00	100.00	2.591	2.591	1.00	18	1,2-DICHLOROETHANE
20	11:12	0	1.391	1.00	100.00	100.00	0.190	0.190	1.00	20	2-BUTANONE
21	10:33	0	0.566	1.00	100.00	100.00	0.568	0.568	1.00	21	FREON TF
22	12:09	0	0.651	1.00	100.00	100.00	0.528	0.528	1.00	22	1,1,1-TRICHLOROETHANE
23	12:33	0	0.673	1.00	100.00	100.00	0.537	0.537	1.00	23	CARBON TETRACHLORIDE
24	13:09	0	0.705	1.00	100.00	100.00	0.599	0.599	1.00	24	VINYL ACETATE
25	13:12	0	0.708	1.00	100.00	100.00	0.708	0.708	1.00	25	BROMODICHLOROMETHANE
26	14:36	0	0.783	1.00	100.00	100.00	0.405	0.405	1.00	26	1,2-DICHLOROPROPANE
27	14:54	0	0.799	1.00	100.00	100.00	0.564	0.564	1.00	27	CIS-1,3-DICHLOROPROPENE
28	15:30	0	0.831	1.00	100.00	100.00	0.458	0.458	1.00	28	TRICHLOROETHENE
29	15:54	0	0.853	1.00	100.00	100.00	0.601	0.601	1.00	29	DIBROMOCHLOROMETHANE
30	18:18	0	0.981	1.00	100.00	100.00	0.235	0.235	1.00	30	METHYLCYCLOHEXANE
31	16:03	0	0.861	1.00	100.00	100.00	0.408	0.408	1.00	31	1,1,2-TRICHLOROETHANE
32	16:06	0	0.863	1.00	100.00	100.00	1.041	1.041	1.00	32	BENZENE
33	16:09	0	0.866	1.00	100.00	100.00	0.499	0.499	1.00	33	TRANS-1,3-DICHLOROPROPENE
34	17:18	0	0.928	1.00	100.00	100.00	0.108	0.108	1.00	34	2-CHLOROETHYLVINYLETHER
35	18:30	0	0.992	1.00	100.00	100.00	0.469	0.469	1.00	35	BROMOFORM
37	19:15	0	0.823	1.00	100.00	100.00	0.688	0.688	1.00	37	4-METHYL-2-PENTANONE
38	20:51	0	0.891	1.00	100.00	100.00	0.602	0.602	1.00	38	2-HEXANONE
39	20:48	0	0.889	1.00	100.00	100.00	0.955	0.955	1.00	39	1,1,2,2-TETRACHLOROETHANE
40	21:06	0	0.902	1.00	100.00	100.00	0.508	0.508	1.00	40	TETRACHLOROETHENE
41	21:57	0	0.938	1.00	100.00	100.00	0.343	0.343	1.00	41	BUTYL ACETATE
43	22:27	0	0.959	1.00	100.00	100.00	0.749	0.749	1.00	43	TOLUENE
44	23:30	0	1.004	1.00	100.00	100.00	1.031	1.031	1.00	44	CHLOROBENZENE
45	25:21	0	1.083	1.00	100.00	100.00	0.455	0.455	1.00	45	ETHYLBENZENE
47	28:33	0	1.220	1.00	100.00	100.00	0.927	0.927	1.00	47	STYRENE
48	28:48	0	1.231	1.00	100.00	100.00	0.585	0.585	1.00	48	M-XYLENE
49	29:30	0	1.261	1.00	60.00	60.00	0.527	0.527	1.00	49	O- & P-XYLENE
50	32:48	0	1.402	1.00	100.00	100.00	0.806	0.806	1.00	50	O-DICHLOROBENZENE
51	8:06	0	1.006	1.00	100.00	100.00	1.203	1.203	1.00	51	CYCLOPENTANE
52	28:48	0	1.231	1.00	100.00	100.00	0.585	0.585	1.00	52	XYLENE (TOTAL)
53	7:06	0	0.882	1.00	100.00	100.00	0.052	0.052	1.00	53	2-PROPANOL

PROCEDURE: TCA DIAGNOSTIC REPORT 5/15/90 16:15:07
DATA FILE: CKG100HV
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	13	10	4	55	UMRET1/UMUNK1
2	2	1	0	14	13	24	73	UMRET2/UMUNK2
2	2	1	0	13	13	4	65	UMRET2/UMUNK3
2	2	1	0	9	9	2	70	UMRET3/UMUNK4
1	1	1	0	8	8	4	46	UMRET4/UMUNK5

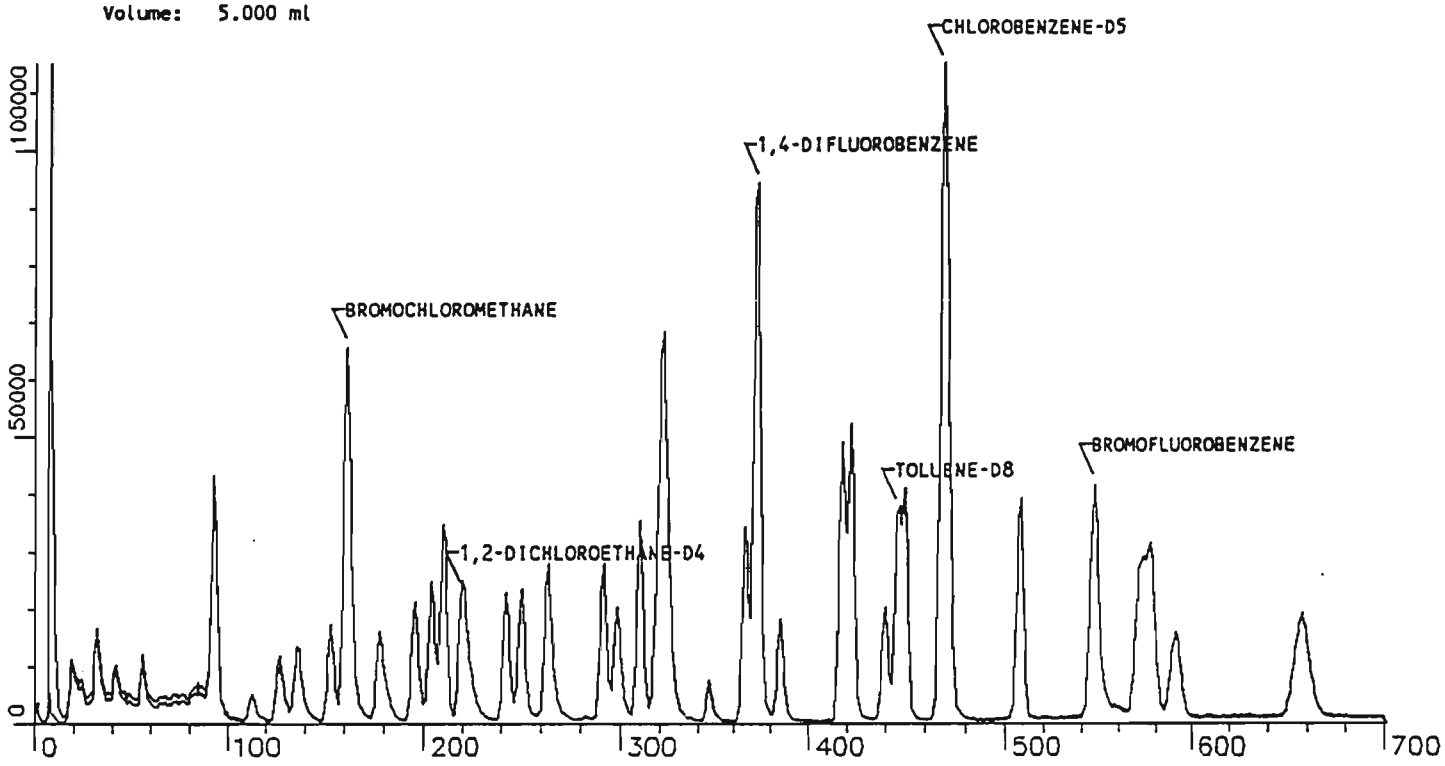
52 COMPOUNDS PROCESSED, 48 FOUND

COMPOUND			SEARCH					SAT	CHRO			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	UM	1	-157	161	161	.	1	987	.	128	161	.	1
2	UM	2	-17	19	19	.	2	994	.	50	19	.	1
3	UM	3	-29	31	.	.	.	.	.	94	32	.	1
4	UM	4	-39	41	41	.	2	1000	.	62	41	.	1
5	UM	5	-53	55	56	1	1	996	.	64	56	.	1
6	UM	6	-90	93	92	-1	1	995	.	84	92	.	1
7	UM	7	-108	111	111	.	1	983	.	43	112	1	1
8	UM	8	-109	112	113	1	1	996	.	56	113	.	1
9	UM	9	-123	126	.	.	.	.	.	53	126	.	1
10	UM	10	-122	125	125	.	1	1000	.	76	125	.	1
11	UM	11	-133	136	136	.	1	994	.	101	136	.	1
12	UM	12	-149	153	153	.	1	993	.	96	153	.	1
13	UM	53	-138	142	.	.	.	.	.	45	142	.	1
14	UM	13	-368	373	373	.	1	994	.	114	373	.	1
15	UM	51	-158	162	162	.	1	994	.	55	162	.	1
16	UM	14	-174	178	178	.	1	999	.	63	178	.	1
17	UM	15	-177	181	.	.	.	.	.	71	181	.	1
18	UM	16	-191	195	195	.	2	997	.	96	195	.	1
19	UM	17	-201	205	204	-1	2	998	.	83	204	.	1
20	UM	18	-217	221	220	-1	1	975	.	62	220	.	1
21	UM	19	-215	219	218	-1	1	998	.	65	218	.	1
22	UM	20	-220	224	225	1	3	997	.	72	224	-1	1
23	UM	21	-207	211	211	.	1	999	.	101	211	.	1
24	UM	22	-240	244	243	-1	1	997	.	97	243	.	1
25	UM	23	-247	251	251	.	2	994	.	117	251	.	1
26	UM	24	-258	262	263	1	1	997	.	43	263	.	1
27	UM	25	-260	264	264	.	1	989	.	83	264	.	1
28	UM	26	-288	292	292	.	1	982	.	63	292	.	1
29	UM	27	-294	298	298	.	2	982	.	75	298	.	1
30	UM	28	-306	310	310	.	1	993	.	130	310	.	1
31	UM	29	-315	319	318	-1	1	999	.	129	318	.	1
32	UM	30	-362	366	367	1	1	993	.	98	366	-1	1
33	UM	31	-318	322	322	.	1	994	.	97	321	-1	1
34	UM	32	-317	321	322	1	1	994	.	78	322	.	1
35	UM	33	-320	324	323	-1	2	991	.	75	323	.	1
36	UM	34	-342	346	346	.	1	984	.	63	346	.	1
37	UM	35	-366	370	370	.	1	988	.	173	370	.	1
38	UM	36	-464	468	468	.	1	990	.	117	468	.	1
39	UM	37	-381	385	385	.	2	987	.	43	385	.	1
40	UM	38	-412	416	417	1	1	959	.	43	417	.	1
41	UM	39	-413	417	416	-1	1	995	.	83	416	.	1
42	UM	40	-418	422	422	.	1	974	.	164	422	.	1
43	UM	41	-435	439	439	.	1	993	.	56	439	.	1
44	UM	42	-441	445	446	1	1	993	.	98	446	.	1
45	UM	43	-445	449	449	.	1	992	.	98	449	.	1
46	UM	44	-466	471	470	-1	1	995	.	112	470	.	1
47	UM	45	-502	507	507	.	1	996	.	106	507	.	1
48	UM	46	-541	546	546	.	1	995	.	95	546	.	1
49	UM	47	-565	571	571	.	1	999	.	104	571	.	1
50	UM	48	-571	577	576	.	1	998	.	106	576	-1	1
51	UM	49	-584	590	590	.	2	991	.	106	590	.	1
52	UM	50	-650	656	656	.	1	992	.	146	656	.	1

CKQ020HV 1

05/15/90 1444
OWAC -- SPS

Sample: VSTD020 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	161	8:03	1	1.000	A BB	25042.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	373	18:39	13	1.000	A BB	123337.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	469	23:27	36	1.000	A BB	102835.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	219	10:57	1	1.360	A BB	23868.	20.000 PPB	40.0	19	1,2-DICHLOROETHANE-D4
42	98	446	22:18	36	0.951	A BB	45798.	20.000 PPB	40.0	42	TOLUENE-D8
46	95	547	27:21	36	1.166	A BB	33454.	20.000 PPB	40.0	46	BROMOFLUOROBENZENE

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
1	8:03	0	1.000	1.00	50.00	50.00	1.000	1.000	1.00	1	BROMOCHLOROMETHANE
13	18:39	0	1.000	1.00	50.00	50.00	1.000	1.000	1.00	13	1,4-DIFLUOROBENZENE
36	23:27	0	1.000	1.00	50.00	50.00	1.000	1.000	1.00	36	CHLOROBENZENE-D5
19	10:57	0	1.360	1.00	20.00	20.00	2.383	2.383	1.00	19	1,2-DICHLOROETHANE-D4
42	22:18	0	0.951	1.00	20.00	20.00	1.113	1.113	1.00	42	TOLUENE-D8
46	27:21	0	1.166	1.00	20.00	20.00	0.813	0.813	1.00	46	BROMOFLUOROBENZENE

CKQ020HV (05/15/90 14:44) RFs loaded on OWAC 5/16/90 8:34:27

CKQ020HV 2

05/15/90 1444
OWAC -- SPS

Sample: VSTD020 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	19	0:57	1	0.118	A BB	14835.	22.000 PPB		2	CHLOROMETHANE
3	94	32	1:36	1	0.199	A BB	13894.	22.000 PPB		3	BROMOMETHANE
4	62	42	2:06	1	0.261	A BB	12041.	20.000 PPB		4	VINYL CHLORIDE
5	64	56	2:48	1	0.348	A BB	8728.	22.000 PPB		5	CHLOROETHANE
6	84	93	4:39	1	0.578	A BB	24003.	20.000 PPB		6	METHYLENE CHLORIDE
7	43	113	5:39	1	0.702	A BB	12680.	20.000 PPB		7	ACETONE
8	56	115	5:45	1	0.714	A BB	1682.	20.000 PPB		8	ACROLEIN
9	53	129	6:27	1	0.801	A BB	4417.	20.000 PPB		9	ACRYLONITRILE
10	76	127	6:21	1	0.789	A BB	34649.	20.000 PPB		10	CARBON DISULFIDE
11	101	136	6:48	1	0.845	A BB	22836.	20.000 PPB		11	TRICHLOROFLUOROMETHANE
12	96	153	7:39	1	0.950	A BB	11163.	20.000 PPB		12	1,1-DICHLOROETHENE
14	63	178	8:54	1	1.106	A BB	27058.	20.000 PPB		14	1,1-DICHLOROETHANE
15	71	182	9:06	1	1.130	A BB	1708.	20.000 PPB		15	TETRAHYDROFURAN
16	96	196	9:48	1	1.217	A BB	14332.	20.000 PPB		16	1,2-DICHLOROETHENE (TOTAL)
17	83	204	10:12	1	1.267	A BB	32855.	20.000 PPB		17	CHLOROFORM
18	62	221	11:03	1	1.373	A BB	25270.	20.000 PPB		18	1,2-DICHLOROETHANE
20	72	225	11:15	1	1.398	A BB	2180.	20.000 PPB		20	2-BUTANONE
21	101	210	10:30	13	0.563	A BB	24854.	20.000 PPB		21	FREON TF
22	97	243	12:09	13	0.651	A BB	21070.	20.000 PPB		22	1,1,1-TRICHLOROETHANE
23	117	251	12:33	13	0.673	A VB	20767.	20.000 PPB		23	CARBON TETRACHLORIDE
24	43	263	13:09	13	0.705	A BB	23970.	20.000 PPB		24	VINYL ACETATE
25	83	264	13:12	13	0.708	A BB	29412.	20.000 PPB		25	BROMODICHLOROMETHANE
26	63	292	14:36	13	0.783	A BB	18541.	20.000 PPB		26	1,2-DICHLOROPROPANE
27	75	299	14:57	13	0.802	A BB	21921.	20.000 PPB		27	CIS-1,3-DICHLOROPROPENE
28	130	310	15:30	13	0.831	A BB	19687.	20.000 PPB		28	TRICHLOROETHENE
29	129	318	15:54	13	0.853	A BB	23383.	20.000 PPB		29	DIBROMOCHLOROMETHANE
30	98	366	18:18	13	0.981	A BB	9866.	20.000 PPB		30	METHYLCYCLOHEXANE
31	97	322	16:06	13	0.863	A BB	19403.	20.000 PPB		31	1,1,2-TRICHLOROETHANE
32	78	321	16:03	13	0.861	A BB	47092.	20.000 PPB		32	BENZENE
33	75	325	16:15	13	0.871	A BB	18955.	20.000 PPB		33	TRANS-1,3-DICHLOROPROPENE
34	63	346	17:18	13	0.928	A BB	6017.	20.000 PPB		34	2-CHLOROETHYLVINYLETHER
35	173	371	18:33	13	0.995	A BB	18754.	20.000 PPB		35	BROMOFORM
37	43	385	19:15	36	0.821	A BB	30714.	20.000 PPB		37	4-METHYL-2-PENTANONE
38	43	417	20:51	36	0.889	A BB	26662.	20.000 PPB		38	2-HEXANONE
39	83	417	20:51	36	0.889	A BB	40385.	20.000 PPB		39	1,1,2,2-TETRACHLOROETHANE
40	164	422	21:06	36	0.900	A BB	19143.	20.000 PPB		40	TETRACHLOROETHENE
41	56	440	22:00	36	0.938	A BB	14968.	20.000 PPB		41	BUTYL ACETATE
43	92	450	22:30	36	0.959	A BB	30096.	20.000 PPB		43	TOLUENE
44	112	471	23:33	36	1.004	A BB	41451.	20.000 PPB		44	CHLOROBENZENE
45	106	508	25:24	36	1.083	A BB	18429.	20.000 PPB		45	ETHYLBENZENE
47	104	572	28:36	36	1.220	A BB	36277.	20.000 PPB		47	STYRENE
48	106	577	28:51	36	1.230	A BV	23486.	20.000 PPB		48	M-XYLENE
49	106	591	29:33	36	1.260	A VB	13140.	12.000 PPB		49	O- & P-XYLENE
50	146	656	32:48	36	1.399	A BB	33674.	20.000 PPB		50	O-DICHLOROBENZENE
51	55	162	8:06	1	1.006	A BB	10451.	20.000 PPB		51	CYCLOPENTANE
52	106	577	28:51	36	1.230	A BV	23486.	20.000 PPB		52	XYLENE (TOTAL)
53	45	142	7:06	1	0.882	A BB	656.	20.000 PPB		53	2-PROPANOL

Sample: VSTD020 CRV#CKQ
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKQ Submitted by: AQUTEC
Volume: 5.000 ml

05/15/90 1444
OWAC -- SPS

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	0:57	0	0.118	1.00	22.00	22.00	1.346	1.346	1.00	2	CHLOROMETHANE
3	1:36	0	0.199	1.00	22.00	22.00	1.261	1.261	1.00	3	BROMOMETHANE
4	2:06	0	0.261	1.00	20.00	20.00	1.202	1.202	1.00	4	VINYL CHLORIDE
5	2:48	0	0.348	1.00	22.00	22.00	0.792	0.792	1.00	5	CHLOROETHANE
6	4:39	0	0.578	1.00	20.00	20.00	2.396	2.396	1.00	6	METHYLENE CHLORIDE
7	5:39	0	0.702	1.00	20.00	20.00	1.266	1.266	1.00	7	ACETONE
8	5:45	0	0.714	1.00	20.00	20.00	0.168	0.168	1.00	8	ACROLEIN
9	6:27	0	0.801	1.00	20.00	20.00	0.441	0.441	1.00	9	ACRYLONITRILE
10	6:21	0	0.789	1.00	20.00	20.00	3.459	3.459	1.00	10	CARBON DISULFIDE
11	6:48	0	0.845	1.00	20.00	20.00	2.280	2.280	1.00	11	TRICHLOROFLUOROMETHANE
12	7:39	0	0.950	1.00	20.00	20.00	1.114	1.114	1.00	12	1,1-DICHLOROETHENE
14	8:54	0	1.106	1.00	20.00	20.00	2.701	2.701	1.00	14	1,1-DICHLOROETHANE
15	9:06	0	1.130	1.00	20.00	20.00	0.171	0.171	1.00	15	TETRAHYDROFURAN
16	9:48	0	1.217	1.00	20.00	20.00	1.431	1.431	1.00	16	1,2-DICHLOROETHENE (TOTAL)
17	10:12	0	1.267	1.00	20.00	20.00	3.280	3.280	1.00	17	CHLOROFORM
18	11:03	0	1.373	1.00	20.00	20.00	2.523	2.523	1.00	18	1,2-DICHLOROETHANE
20	11:15	0	1.398	1.00	20.00	20.00	0.218	0.218	1.00	20	2-BUTANONE
21	10:30	0	0.563	1.00	20.00	20.00	0.504	0.504	1.00	21	FREON TF
22	12:09	0	0.651	1.00	20.00	20.00	0.427	0.427	1.00	22	1,1,1-TRICHLOROETHANE
23	12:33	0	0.673	1.00	20.00	20.00	0.421	0.421	1.00	23	CARBON TETRACHLORIDE
24	13:09	0	0.705	1.00	20.00	20.00	0.486	0.486	1.00	24	VINYL ACETATE
25	13:12	0	0.708	1.00	20.00	20.00	0.596	0.596	1.00	25	BROMODICHLOROMETHANE
26	14:36	0	0.783	1.00	20.00	20.00	0.376	0.376	1.00	26	1,2-DICHLOROPROPANE
27	14:57	0	0.802	1.00	20.00	20.00	0.444	0.444	1.00	27	CIS-1,3-DICHLOROPROPENE
28	15:30	0	0.831	1.00	20.00	20.00	0.399	0.399	1.00	28	TRICHLOROETHENE
29	15:54	0	0.853	1.00	20.00	20.00	0.474	0.474	1.00	29	DIBROMOCHLOROMETHANE
30	18:18	0	0.981	1.00	20.00	20.00	0.200	0.200	1.00	30	METHYLCYCLOHEXANE
31	16:06	0	0.863	1.00	20.00	20.00	0.393	0.393	1.00	31	1,1,2-TRICHLOROETHANE
32	16:03	0	0.861	1.00	20.00	20.00	0.955	0.955	1.00	32	BENZENE
33	16:15	0	0.871	1.00	20.00	20.00	0.384	0.384	1.00	33	TRANS-1,3-DICHLOROPROPENE
34	17:18	0	0.928	1.00	20.00	20.00	0.122	0.122	1.00	34	2-CHLOROETHYLVINYLETHER
35	18:33	0	0.995	1.00	20.00	20.00	0.380	0.380	1.00	35	BROMOFORM
37	19:15	0	0.821	1.00	20.00	20.00	0.747	0.747	1.00	37	4-METHYL-2-PENTANONE
38	20:51	0	0.889	1.00	20.00	20.00	0.648	0.648	1.00	38	2-HEXANONE
39	20:51	0	0.889	1.00	20.00	20.00	0.982	0.982	1.00	39	1,1,2,2-TETRACHLOROETHANE
40	21:06	0	0.900	1.00	20.00	20.00	0.465	0.465	1.00	40	TETRACHLOROETHENE
41	22:00	0	0.938	1.00	20.00	20.00	0.364	0.364	1.00	41	BUTYL ACETATE
43	22:30	0	0.959	1.00	20.00	20.00	0.732	0.732	1.00	43	TOLUENE
44	23:33	0	1.004	1.00	20.00	20.00	1.008	1.008	1.00	44	CHLOROBENZENE
45	25:24	0	1.083	1.00	20.00	20.00	0.448	0.448	1.00	45	ETHYLBENZENE
47	28:36	0	1.220	1.00	20.00	20.00	0.882	0.882	1.00	47	STYRENE
48	28:51	0	1.230	1.00	20.00	20.00	0.571	0.571	1.00	48	M-XYLENE
49	29:33	0	1.260	1.00	12.00	12.00	0.532	0.532	1.00	49	O- & P-XYLENE
50	32:48	0	1.399	1.00	20.00	20.00	0.819	0.819	1.00	50	O-DICHLOROBENZENE
51	8:06	0	1.006	1.00	20.00	20.00	1.043	1.043	1.00	51	CYCLOPENTANE
52	28:51	0	1.230	1.00	20.00	20.00	0.571	0.571	1.00	52	XYLENE (TOTAL)
53	7:06	0	0.882	1.00	20.00	20.00	0.065	0.065	1.00	53	2-PROPANOL

PROCEDURE: TCA DIAGNOSTIC REPORT 5/15/90 15:20:50
DATA FILE: CKQ020HV
REFERENCE: JTAB11
NAME LIST: UM INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: UMRET1

STANDARDS PROC	USED	POSS	RMS	PLUS UNKNOWNS PROC	USED	POSS	RMS	LIST NAMES - STANDARD/UNKNOWN
1	1	1	0	1	1	4	108	UMRET1/UMUNK1
2	2	1	0	1	1	4	75	UMRET2/UMUNK2
2	2	1	0	1	1	4	43	UMRET2/UMUNK3
3	2	1	0	3	3	4	49	UMRET3/UMUNK4
4	1	1	0	8	8	4	47	UMRET4/UMUNK5

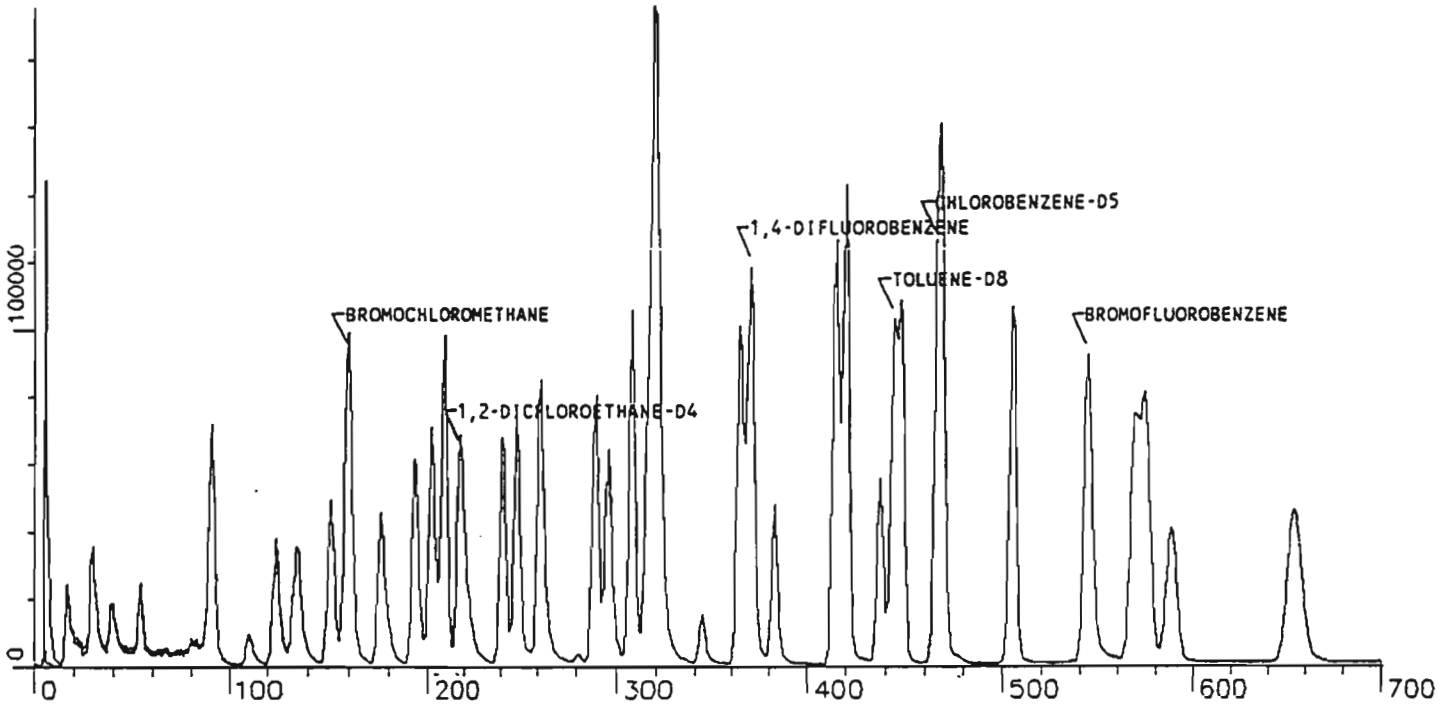
50 COMPOUNDS PROCESSED: 48 FOUND

COMPOUND NO	LIB	ENTRY	REF	PRED	SEARCH SCI	DELTA	PEAKS	FIT	SAT PEAKS	CHRO M/Z	TOP	DELTA	PEAKS
1	UM	1	-157	1	1		1	986		128	161		1
2	UM	2	-17	0	1	-1	1	989		50	19		1
3	UM	3	-29	3	3					94	32		1
4	UM	4	-39	4	4		1	999		62	42		1
5	UM	5	-53	5	5		2	992		64	56		1
6	UM	6	-90	94	94	-1	1	993		84	93		1
7	UM	7	-108	112	112	1	1	989		43	113		1
8	UM	8	-109	113	113	2	1	990		56	115		1
9	UM	9	-123	127	127					53	129		1
10	UM	10	-122	126	127	1	2	1000		76	127		1
11	UM	11	-133	136	136	-1	1	991		101	136		1
12	UM	12	-149	154	153	-1	1	996		96	153		1
53	UM	53	-138	142	142					45	142		1
13	UM	13	-368	373	373		1	997		114	373		1
51	UM	51	-158	162	162		1	989		55	162		1
14	UM	14	-174	178	178		1	997		63	178		1
15	UM	15	-177	181	181					71	182		1
16	UM	16	-191	196	196	1	1	992		96	196		1
17	UM	17	-201	205	205	-1	2	999		83	204		1
18	UM	18	-217	221	221		1	979		62	221		1
19	UM	19	-215	219	219		1	1000		65	219		1
20	UM	20	-220	224	224	1	2	996		72	225		1
21	UM	21	-207	211	211	-1	1	1000		101	210		1
22	UM	22	-240	244	244	-1	1	996		97	243		1
23	UM	23	-247	251	251		1	991		117	251		1
24	UM	24	-256	264	264	1	1	988		43	263		1
25	UM	25	-260	264	264		1	993		83	264		1
26	UM	26	-288	293	293		1	984		63	292		1
27	UM	27	-294	297	297	1	2	988		75	296		1
28	UM	28	-306	310	310		1	997		130	310		1
29	UM	29	-315	318	318		1	998		129	318	-1	1
30	UM	30	-362	366	366		1	994		98	366		1
31	UM	31	-318	322	322		1	989		97	322		1
32	UM	32	-317	321	321		1	993		78	321		1
33	UM	33	-320	324	324		2	993		75	325	1	1
34	UM	34	-342	346	346		1	985		63	346		1
35	UM	35	-366	370	370	1	1	955		173	371		1
36	UM	36	-464	469	469		1	993		117	469		1
37	UM	37	-381	385	385		1	986		43	385		1
38	UM	38	-412	417	417		1	964		43	417		1
39	UM	39	-413	417	417		1	998		63	417		1
40	UM	40	-418	422	422	-1	1	988		164	422		1
41	UM	41	-439	443	443		1	999		56	440		1
42	UM	42	-441	445	445		1	999		98	445		1
43	UM	43	-446	450	450		1	999		98	450		1
44	UM	44	-466	470	470	-1	1	994		112	470		1
45	UM	45	-502	506	506		1	994		106	506		1
46	UM	46	-541	545	545		1	997		95	545		1
47	UM	47	-565	569	569	1	1	996		104	572		1
48	UM	48	-571	575	575		1	994		106	575		1
49	UM	49	-584	588	588		1	987		106	591		1
50	UM	50	-850	855	855		1	986		146	856	-1	1

CKQ050HV 1

05/15/90 1628
OWAC -- CMS

Sample: VSTD050 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	159	7:57	1	1.000	A BB	25811.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	370	18:30	13	1.000	A BB	125067.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	466	23:18	36	1.000	A BB	104462.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	217	10:51	1	1.365	A BB	62120.	50.000 PPB	100.0	19	1,2-DICHLOROETHANE-D4
42	98	444	22:12	36	0.953	A BB	117778.	50.000 PPB	100.0	42	TOLUENE-D8
46	95	544	27:12	36	1.167	A BB	82232.	50.000 PPB	100.0	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	18:30	0	1.000	1.00	50.00	50.00	1.000	1.000	1.00	13	1,4-DIFLUOROBENZENE
36	23:18	0	1.000	1.00	50.00	50.00	1.000	1.000	1.00	36	CHLOROBENZENE-D5
19	10:51	0	1.365	1.00	50.00	50.00	2.407	2.407	1.00	19	1,2-DICHLOROETHANE-D4
42	22:12	0	0.953	1.00	50.00	50.00	1.127	1.127	1.00	42	TOLUENE-D8
46	27:12	0	1.167	1.00	50.00	50.00	0.787	0.787	1.00	46	BROMOFLUOROBENZENE

CKQ050HV (05/15/90 16:28) RFs loaded on OWAC 5/16/90 8:23:25

CKQ050HV 2

05/15/90 1628
OWAC -- CMS

Sample: VSTD050 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	17	0:51	1	0.107	A BB	36502.	55.000 PPB		2	CHLOROMETHANE
3	94	30	1:30	1	0.189	A BB	34640.	55.000 PPB		3	BROMOMETHANE
4	62	39	1:57	1	0.245	A BV	30773.	50.000 PPB		4	VINYL CHLORIDE
5	64	54	2:42	1	0.340	A BB	21534.	55.000 PPB		5	CHLOROETHANE
6	84	90	4:30	1	0.566	A BB	45022.	50.000 PPB		6	METHYLENE CHLORIDE
7	43	110	5:30	1	0.692	A BV	19715.	50.000 PPB		7	ACETONE
8	56	112	5:36	1	0.704	A BB	5136.	50.000 PPB		8	ACROLEIN
9	53	125	6:15	1	0.786	A BB	10958.	50.000 PPB		9	ACRYLONITRILE
10	76	124	6:12	1	0.780	A BB	104138.	50.000 PPB		10	CARBON DISULFIDE
11	101	134	6:42	1	0.843	A BB	62624.	50.000 PPB		11	TRICHLOROFLUOROMETHANE
12	96	151	7:33	1	0.950	A BB	32454.	50.000 PPB		12	1,1-DICHLOROETHENE
14	63	176	8:48	1	1.107	A BV	73307.	50.000 PPB		14	1,1-DICHLOROETHANE
15	71	179	8:57	1	1.126	A BB	4132.	50.000 PPB		15	TETRAHYDROFURAN
16	96	194	9:42	1	1.220	A BB	42097.	50.000 PPB		16	1,2-DICHLOROETHENE (TOTAL)
17	83	202	10:06	1	1.270	A BB	89563.	50.000 PPB		17	CHLOROFORM
18	62	219	10:57	1	1.377	A BB	67382.	50.000 PPB		18	1,2-DICHLOROETHANE
20	72	223	11:09	1	1.403	A BB	5288.	50.000 PPB		20	2-BUTANONE
21	101	209	10:27	13	0.565	A BB	70319.	50.000 PPB		21	FREON TF
22	97	241	12:03	13	0.651	A BB	64694.	50.000 PPB		22	1,1,1-TRICHLOROETHANE
23	117	249	12:27	13	0.673	A VB	64359.	50.000 PPB		23	CARBON TETRACHLORIDE
24	43	261	13:03	13	0.705	A BB	71274.	50.000 PPB		24	VINYL ACETATE
25	83	262	13:06	13	0.708	A BB	84662.	50.000 PPB		25	BROMODICHLOROMETHANE
26	63	290	14:30	13	0.784	A BB	51355.	50.000 PPB		26	1,2-DICHLOROPROPANE
27	75	296	14:48	13	0.800	A BB	67908.	50.000 PPB		27	CIS-1,3-DICHLOROPROPENE
28	130	308	15:24	13	0.832	A BB	56831.	50.000 PPB		28	TRICHLOROETHENE
29	129	316	15:48	13	0.854	A BB	72065.	50.000 PPB		29	DIBROMOCHLOROMETHANE
30	98	364	18:12	13	0.984	A BB	30107.	50.000 PPB		30	METHYLCYCLOHEXANE
31	97	320	16:00	13	0.865	A VB	51854.	50.000 PPB		31	1,1,2-TRICHLOROETHANE
32	78	319	15:57	13	0.862	A BV	129841.	50.000 PPB		32	BENZENE
33	75	321	16:03	13	0.868	A BB	56983.	50.000 PPB		33	TRANS-1,3-DICHLOROPROPENE
34	63	344	17:12	13	0.930	A BB	11458.	50.000 PPB		34	2-CHLOROETHYLVINYLETHER
35	173	368	18:24	13	0.995	A BB	56876.	50.000 PPB		35	BROMOFORM
37	43	383	19:09	36	0.822	A BB	76377.	50.000 PPB		37	4-METHYL-2-PENTANONE
38	43	415	20:45	36	0.891	A BB	64471.	50.000 PPB		38	2-HEXANONE
39	83	415	20:45	36	0.891	A BB	104129.	50.000 PPB		39	1,1,2,2-TETRACHLOROETHANE
40	164	420	21:00	36	0.901	A BB	54318.	50.000 PPB		40	TETRACHLOROETHENE
41	56	437	21:51	36	0.938	A BB	36848.	50.000 PPB		41	BUTYL ACETATE
43	92	448	22:24	36	0.961	A BB	80836.	50.000 PPB		43	TOLUENE
44	112	469	23:27	36	1.006	A BB	112161.	50.000 PPB		44	CHLOROBENZENE
45	106	505	25:15	36	1.084	A BB	49353.	50.000 PPB		45	ETHYLBENZENE
47	104	569	28:27	36	1.221	A BV	98866.	50.000 PPB		47	STYRENE
48	106	574	28:42	36	1.232	A BV	62587.	50.000 PPB		48	M-XYLENE
49	106	588	29:24	36	1.262	A VB	34555.	30.000 PPB		49	O- & P-XYLENE
50	146	654	32:42	36	1.403	A BB	84329.	50.000 PPB		50	O-DICHLOROBENZENE
51	55	160	8:00	1	1.006	A BB	29303.	50.000 PPB		51	CYCLOPENTANE
52	106	574	28:42	36	1.232	A BV	62587.	50.000 PPB		52	XYLENE (TOTAL)
53	45	140	7:00	1	0.881	A BB	1322.	50.000 PPB		53	2-PROPANOL

05/15/90 1628
OWAC -- CMS

Sample: VSTD050 CRV#CKQ
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKQ Submitted by: AQUTEC
Volume: 5.000 ml

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	0:51	0	0.107	1.00	55.00	55.00	1.286	1.286	1.00	2	CHLOROMETHANE
3	1:30	0	0.189	1.00	55.00	55.00	1.220	1.220	1.00	3	BROMOMETHANE
4	1:57	0	0.245	1.00	50.00	50.00	1.192	1.192	1.00	4	VINYL CHLORIDE
5	2:42	0	0.340	1.00	55.00	55.00	0.758	0.758	1.00	5	CHLOROETHANE
6	4:30	0	0.566	1.00	50.00	50.00	1.744	1.744	1.00	6	METHYLENE CHLORIDE
7	5:30	0	0.692	1.00	50.00	50.00	0.764	0.764	1.00	7	ACETONE
8	5:36	0	0.704	1.00	50.00	50.00	0.199	0.199	1.00	8	ACROLEIN
9	6:15	0	0.786	1.00	50.00	50.00	0.425	0.425	1.00	9	ACRYLONITRILE
10	6:12	0	0.780	1.00	50.00	50.00	4.035	4.035	1.00	10	CARBON DISULFIDE
11	6:42	0	0.843	1.00	50.00	50.00	2.426	2.426	1.00	11	TRICHLOROFLUOROMETHANE
12	7:33	0	0.950	1.00	50.00	50.00	1.257	1.257	1.00	12	1,1-DICHLOROETHENE
14	8:48	0	1.107	1.00	50.00	50.00	2.840	2.840	1.00	14	1,1-DICHLOROETHANE
15	8:57	0	1.126	1.00	50.00	50.00	0.160	0.160	1.00	15	TETRAHYDROFURAN
16	9:42	0	1.220	1.00	50.00	50.00	1.631	1.631	1.00	16	1,2-DICHLOROETHENE (TOTAL)
17	10:06	0	1.270	1.00	50.00	50.00	3.470	3.470	1.00	17	CHLOROFORM
18	10:57	0	1.377	1.00	50.00	50.00	2.611	2.611	1.00	18	1,2-DICHLOROETHANE
20	11:09	0	1.403	1.00	50.00	50.00	0.205	0.205	1.00	20	2-BUTANONE
21	10:27	0	0.565	1.00	50.00	50.00	0.562	0.562	1.00	21	FREON TF
22	12:03	0	0.651	1.00	50.00	50.00	0.517	0.517	1.00	22	1,1,1-TRICHLOROETHANE
23	12:27	0	0.673	1.00	50.00	50.00	0.515	0.515	1.00	23	CARBON TETRACHLORIDE
24	13:03	0	0.705	1.00	50.00	50.00	0.570	0.570	1.00	24	VINYL ACETATE
25	13:06	0	0.708	1.00	50.00	50.00	0.677	0.677	1.00	25	BROMODICHLOROMETHANE
26	14:30	0	0.784	1.00	50.00	50.00	0.411	0.411	1.00	26	1,2-DICHLOROPROPANE
27	14:48	0	0.800	1.00	50.00	50.00	0.543	0.543	1.00	27	CIS-1,3-DICHLOROPROPENE
28	15:24	0	0.832	1.00	50.00	50.00	0.454	0.454	1.00	28	TRICHLOROETHENE
29	15:48	0	0.854	1.00	50.00	50.00	0.576	0.576	1.00	29	DIBROMOCHLOROMETHANE
30	18:12	0	0.984	1.00	50.00	50.00	0.241	0.241	1.00	30	METHYLCYCLOHEXANE
31	16:00	0	0.865	1.00	50.00	50.00	0.415	0.415	1.00	31	1,1,2-TRICHLOROETHANE
32	15:57	0	0.862	1.00	50.00	50.00	1.038	1.038	1.00	32	BENZENE
33	16:03	0	0.868	1.00	50.00	50.00	0.456	0.456	1.00	33	TRANS-1,3-DICHLOROPROPENE
34	17:12	0	0.930	1.00	50.00	50.00	0.092	0.092	1.00	34	2-CHLOROETHYLVINYLETHER
35	18:24	0	0.995	1.00	50.00	50.00	0.455	0.455	1.00	35	BROMOFORM
37	19:09	0	0.822	1.00	50.00	50.00	0.731	0.731	1.00	37	4-METHYL-2-PENTANONE
38	20:45	0	0.891	1.00	50.00	50.00	0.617	0.617	1.00	38	2-HEXANONE
39	20:45	0	0.891	1.00	50.00	50.00	0.997	0.997	1.00	39	1,1,2,2-TETRACHLOROETHANE
40	21:00	0	0.901	1.00	50.00	50.00	0.520	0.520	1.00	40	TETRACHLOROETHENE
41	21:51	0	0.938	1.00	50.00	50.00	0.353	0.353	1.00	41	BUTYL ACETATE
43	22:24	0	0.961	1.00	50.00	50.00	0.774	0.774	1.00	43	TOLUENE
44	23:27	0	1.006	1.00	50.00	50.00	1.074	1.074	1.00	44	CHLOROBENZENE
45	25:15	0	1.084	1.00	50.00	50.00	0.472	0.472	1.00	45	ETHYLBENZENE
47	28:27	0	1.221	1.00	50.00	50.00	0.946	0.946	1.00	47	STYRENE
48	28:42	0	1.232	1.00	50.00	50.00	0.599	0.599	1.00	48	M-XYLENE
49	29:24	0	1.262	1.00	30.00	30.00	0.551	0.551	1.00	49	O- & P-XYLENE
50	32:42	0	1.403	1.00	50.00	50.00	0.807	0.807	1.00	50	O-DICHLOROBENZENE
51	8:00	0	1.006	1.00	50.00	50.00	1.135	1.135	1.00	51	CYCLOPENTANE
52	28:42	0	1.232	1.00	50.00	50.00	0.599	0.599	1.00	52	XYLENE (TOTAL)
53	7:00	0	0.881	1.00	50.00	50.00	0.051	0.051	1.00	53	2-PROPANOL

PROCEDURE: TCA DIAGNOSTIC REPORT 5/15/90 17:05:59
DATA FILE: CK0050HV
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	11	24	63	UMRET1/UMUNK1
2	2	1	0	14	13	32	67	UMRET2/UMUNK2
2	2	1	0	13	13	4	51	UMRET2/UMUNK3
2	2	1	0	9	9	2	56	UMRET3/UMUNK4
1	1	1	0	8	8	4	35	UMRET4/UMUNK5

52 COMPOUNDS PROCESSED, 49 FOUND

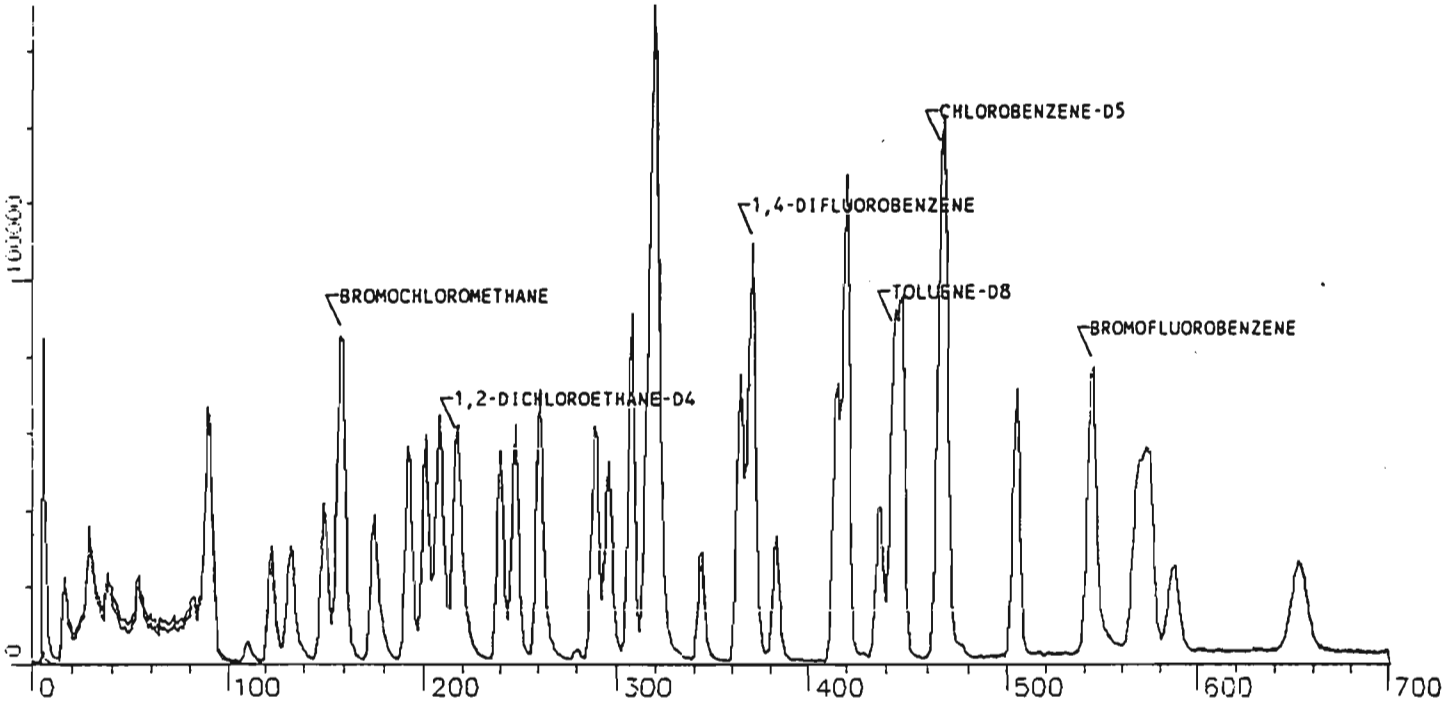
COMPOUND NO	COMPOUND LID	COMPOUND ENTRY	SEARCH REF	SEARCH PRED	SEARCH SEL	SEARCH DELTA	SEARCH PEAKS	SAT FIT	SAT PEAKS	CHRO M/Z	CHRO TOP	CHRO DELTA	CHRO PEAKS
1	UM	1	-157	159	159	.	1	984	.	128	159	.	1
2	UM	2	-17	18	17	-1	3	995	.	50	17	.	1
3	UM	3	-29	30	30	.	1	964	.	94	30	.	1
4	UM	4	-39	40	40	.	2	998	.	62	39	-1	1
5	UM	5	-53	54	54	.	2	995	.	64	54	.	1
6	UM	6	-90	91	91	.	1	995	.	84	90	-1	1
7	UM	7	-108	110	110	.	1	980	.	43	110	.	1
8	UM	8	-109	111	112	1	1	1000	.	56	112	.	1
9	UM	9	-123	125	.	.	.	.	.	53	125	.	1
10	UM	10	-122	124	124	.	2	1000	.	76	124	.	1
11	UM	11	-133	135	134	-1	1	989	.	101	134	.	1
12	UM	12	-149	151	151	.	1	991	.	96	151	.	1
13	UM	53	-138	140	.	.	.	.	.	45	140	.	1
14	UM	13	-368	371	371	.	1	993	.	114	370	-1	1
15	UM	51	-158	160	160	.	1	993	.	55	160	.	1
16	UM	14	-174	176	176	.	1	1000	.	63	176	.	1
17	UM	15	-177	179	.	.	.	.	.	71	179	.	1
18	UM	16	-191	193	194	1	2	995	.	96	194	.	1
19	UM	17	-201	203	202	-1	2	995	.	83	202	.	1
20	UM	18	-217	219	219	.	1	979	.	62	219	.	1
21	UM	19	-215	217	217	.	1	999	.	65	217	.	1
22	UM	20	-220	222	223	1	4	998	.	72	223	.	1
23	UM	21	-207	209	209	.	1	998	.	101	209	.	1
24	UM	22	-240	242	241	-1	1	996	.	97	241	.	1
25	UM	23	-247	249	249	.	2	990	.	117	249	.	1
26	UM	24	-258	260	261	1	1	997	.	43	261	.	1
27	UM	25	-260	262	262	.	1	990	.	83	262	.	1
28	UM	26	-288	290	290	.	1	981	.	63	290	.	1
29	UM	27	-294	296	296	.	2	985	.	75	296	.	1
30	UM	28	-306	308	308	.	1	997	.	130	308	.	1
31	UM	29	-315	317	316	-1	1	996	.	129	316	.	1
32	UM	30	-362	364	364	.	1	992	.	98	364	.	1
33	UM	31	-318	320	320	.	1	996	.	97	320	.	1
34	UM	32	-317	319	319	.	1	993	.	78	319	.	1
35	UM	33	-320	322	321	-1	2	990	.	75	321	.	1
36	UM	34	-342	344	344	.	1	979	.	63	344	.	1
37	UM	35	-366	368	368	.	1	986	.	173	368	.	1
38	UM	36	-464	466	466	.	1	998	.	117	466	.	1
39	UM	37	-381	384	383	-1	1	988	.	43	383	.	1
40	UM	38	-412	414	415	1	1	958	.	43	415	.	1
41	UM	39	-413	415	415	.	2	997	.	83	415	.	1
42	UM	40	-418	420	420	.	1	977	.	164	420	.	1
43	UM	41	-435	437	437	.	1	995	.	56	437	.	1
44	UM	42	-441	443	444	1	1	994	.	88	444	.	1

48	UN	46	-541	545	544	-1	1	997	.	95	544	.	1
49	UN	47	-565	569	569	.	1	997	.	104	569	.	1
50	UN	48	-571	575	575	.	2	997	.	106	574	-1	1
51	UN	49	-584	588	588	.	2	991	.	106	588	.	1
52	UN	50	-650	654	654	.	1	995	.	146	654	.	1

CKQ050LHV 1

05/21/90 1108
OWAC -- CMP

Sample: VSTD050 CRV#CKT
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKT 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	30389.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	370	18:30	13	1.000	A BB	130096.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	466	23:18	36	1.000	A BB	104768.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	216	10:48	1	1.367	A BB	52706.	50.000 PPB	100.0	19	1,2-DICHLOROETHANE-D4
42	98	443	22:09	36	0.951	A BB	109698.	50.000 PPB	100.0	42	TOLUENE-D8
46	95	544	27:12	36	1.167	A BB	61030.	50.000 PPB	100.0	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	18:30	0	1.000	1.00	50.00	50.00	1.000	1.000	1.00	13	1,4-DIFLUOROBENZENE
36	23:18	0	1.000	1.00	50.00	50.00	1.000	1.000	1.00	36	CHLOROBENZENE-D5
19	10:48	0	1.367	1.00	50.00	50.00	1.734	1.734	1.00	19	1,2-DICHLOROETHANE-D4
42	22:09	0	0.951	1.00	50.00	50.00	1.047	1.047	1.00	42	TOLUENE-D8
46	27:12	0	1.167	1.00	50.00	50.00	0.583	0.583	1.00	46	BROMOFLUOROBENZENE

CKQ050LHV (05/21/90 11: 8) RFs loaded on OWAC 5/21/90 12:02:16

CKQ050LHV 2

05/21/90 1108
OWAC -- CMP

Sample: VSTD050 CRV#CKT
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKT Submitted by: AQUTEC
Volume: 5.000 ml

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
2	50	17	0:51	1	0.108	A BB	34891.	55.000 PPB		2	CHLOROMETHANE
3	94	29	1:27	1	0.184	A BB	28549.	55.000 PPB		3	BROMOMETHANE
4	62	38	1:54	1	0.241	A BV	27085.	50.000 PPB		4	VINYL CHLORIDE
5	64	54	2:42	1	0.342	A BB	22612.	55.000 PPB		5	CHLOROETHANE
6	84	89	4:27	1	0.563	A BB	37811.	50.000 PPB		6	METHYLENE CHLORIDE
7	43	110	5:30	1	0.696	A BB	9293.	50.000 PPB		7	ACETONE
8	56	111	5:33	1	0.703	A BB	3998.	50.000 PPB		8	ACROLEIN
9	53	124	6:12	1	0.785	A BB	10017.	50.000 PPB		9	ACRYLONITRILE
10	76	123	6:09	1	0.778	A BB	88331.	50.000 PPB		10	CARBON DISULFIDE
11	101	133	6:39	1	0.842	A BB	55926.	50.000 PPB		11	TRICHLOROFLUOROMETHANE
12	96	150	7:30	1	0.949	A BB	29659.	50.000 PPB		12	1,1-DICHLOROETHENE
14	63	175	8:45	1	1.108	A BV	67111.	50.000 PPB		14	1,1-DICHLOROETHANE
15	71	179	8:57	1	1.133	A BB	3844.	50.000 PPB		15	TETRAHYDROFURAN
16	96	193	9:39	1	1.222	A BB	38131.	50.000 PPB		16	1,2-DICHLOROETHENE (TOTAL)
17	83	201	10:03	1	1.272	A BB	82938.	50.000 PPB		17	CHLOROFORM
18	62	218	10:54	1	1.380	A BB	57444.	50.000 PPB		18	1,2-DICHLOROETHANE
20	72	223	11:09	1	1.411	A BB	3669.	50.000 PPB		20	2-BUTANONE
21	101	208	10:24	13	0.562	A BB	60461.	50.000 PPB		21	FREON TF
22	97	240	12:00	13	0.649	A BB	60708.	50.000 PPB		22	1,1,1-TRICHLOROETHANE
23	117	248	12:24	13	0.670	A VB	62610.	50.000 PPB		23	CARBON TETRACHLORIDE
24	43	260	13:00	13	0.703	A BB	63586.	50.000 PPB		24	VINYL ACETATE
25	83	261	13:03	13	0.705	A BB	75061.	50.000 PPB		25	BROMODICHLOROMETHANE
26	63	289	14:27	13	0.781	A BB	44893.	50.000 PPB		26	1,2-DICHLOROPROPANE
27	75	296	14:48	13	0.800	A BB	63109.	50.000 PPB		27	CIS-1,3-DICHLOROPROPENE
28	130	308	15:24	13	0.832	A BB	56922.	50.000 PPB		28	TRICHLOROETHENE
29	129	316	15:48	13	0.854	A BB	70551.	50.000 PPB		29	DIBROMOCHLOROMETHANE
30	98	364	18:12	13	0.984	A BB	26685.	50.000 PPB		30	METHYLCYCLOHEXANE
31	97	319	15:57	13	0.862	A VB	46468.	50.000 PPB		31	1,1,2-TRICHLOROETHANE
32	78	319	15:57	13	0.862	A BB	116622.	50.000 PPB		32	BENZENE
33	75	321	16:03	13	0.868	A BB	53824.	50.000 PPB		33	TRANS-1,3-DICHLOROPROPENE
34	63	344	17:12	13	0.930	A BB	25442.	50.000 PPB		34	2-CHLORCETHYLVINYLETHER
35	173	368	18:24	13	0.995	A BB	44838.	50.000 PPB		35	BROMOFORM
37	43	383	19:09	36	0.822	A BV	56382.	50.000 PPB		37	4-METHYL-2-PENTANONE
38	43	415	20:45	36	0.891	A BB	42042.	50.000 PPB		38	2-HEXANONE
39	83	414	20:42	36	0.888	A BB	55504.	50.000 PPB		39	1,1,2,2-TETRACHLOROETHANE
40	164	419	20:57	36	0.899	A BB	53909.	50.000 PPB		40	TETRACHLOROETHENE
41	56	436	21:48	36	0.936	A BB	32954.	50.000 PPB		41	BUTYL ACETATE
43	92	447	22:21	36	0.959	A BB	75621.	50.000 PPB		43	TOLUENE
44	112	468	23:24	36	1.004	A BB	104125.	50.000 PPB		44	CHLOROBENZENE
45	106	505	25:15	36	1.084	A BB	36782.	50.000 PPB		45	ETHYLBENZENE
47	104	568	28:24	36	1.219	A BB	72815.	50.000 PPB		47	STYRENE
48	106	574	28:42	36	1.232	A BV	47007.	50.000 PPB		48	M-XYLENE
49	106	586	29:18	36	1.258	A VB	21944.	30.000 PPB		49	O- & P-XYLENE
50	146	652	32:36	36	1.399	A BB	48414.	50.000 PPB		50	O-DICHLOROBENZENE
51	55	159	7:57	1	1.006	A BB	24703.	50.000 PPB		51	CYCLOPENTANE
52	106	574	28:42	36	1.232	A BV	47007.	50.000 PPB		52	XYLENE (TOTAL)
53	45	141	7:03	1	0.892	A BB	823.	50.000 PPB		53	2-PROPANOL

CKQ050LHV 3

05/21/90 1108
OWAC -- CMP

Sample: VSTD050 CRV#CKT
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKT Submitted by: AQUTEC
Volume: 5.000 ml

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	0:51	0	0.108	1.00	55.00	55.00	1.044	1.044	1.00	2	CHLOROMETHANE
3	1:27	0	0.184	1.00	55.00	55.00	0.854	0.854	1.00	3	BROMOMETHANE
4	1:54	0	0.241	1.00	50.00	50.00	0.891	0.891	1.00	4	VINYL CHLORIDE
5	2:42	0	0.342	1.00	55.00	55.00	0.676	0.676	1.00	5	CHLOROETHANE
6	4:27	0	0.563	1.00	50.00	50.00	1.244	1.244	1.00	6	METHYLENE CHLORIDE
7	5:30	0	0.696	1.00	50.00	50.00	0.306	0.306	1.00	7	ACETONE
8	5:33	0	0.703	1.00	50.00	50.00	0.132	0.132	1.00	8	ACROLEIN
9	6:12	0	0.785	1.00	50.00	50.00	0.330	0.330	1.00	9	ACRYLONITRILE
10	6:09	0	0.778	1.00	50.00	50.00	2.907	2.907	1.00	10	CARBON DISULFIDE
11	6:39	0	0.842	1.00	50.00	50.00	1.840	1.840	1.00	11	TRICHLOROFLUOROMETHANE
12	7:30	0	0.949	1.00	50.00	50.00	0.976	0.976	1.00	12	1,1-DICHLOROETHENE
14	8:45	0	1.108	1.00	50.00	50.00	2.208	2.208	1.00	14	1,1-DICHLOROETHANE
15	8:57	0	1.133	1.00	50.00	50.00	0.126	0.126	1.00	15	TETRAHYDROFURAN
16	9:39	0	1.222	1.00	50.00	50.00	1.255	1.255	1.00	16	1,2-DICHLOROETHENE (TOTAL)
17	10:03	0	1.272	1.00	50.00	50.00	2.729	2.729	1.00	17	CHLOROFORM
18	10:54	0	1.380	1.00	50.00	50.00	1.890	1.890	1.00	18	1,2-DICHLOROETHANE
20	11:09	0	1.411	1.00	50.00	50.00	0.121	0.121	1.00	20	2-BUTANONE
21	10:24	0	0.562	1.00	50.00	50.00	0.465	0.465	1.00	21	FREON TF
22	12:00	0	0.649	1.00	50.00	50.00	0.467	0.467	1.00	22	1,1,1-TRICHLOROETHANE
23	12:24	0	0.670	1.00	50.00	50.00	0.481	0.481	1.00	23	CARBON TETRACHLORIDE
24	13:00	0	0.703	1.00	50.00	50.00	0.489	0.489	1.00	24	VINYL ACETATE
25	13:03	0	0.705	1.00	50.00	50.00	0.577	0.577	1.00	25	BROMODICHLOROMETHANE
26	14:27	0	0.781	1.00	50.00	50.00	0.345	0.345	1.00	26	1,2-DICHLOROPROPANE
27	14:48	0	0.800	1.00	50.00	50.00	0.485	0.485	1.00	27	CIS-1,3-DICHLOROPROPENE
28	15:24	0	0.832	1.00	50.00	50.00	0.438	0.438	1.00	28	TRICHLOROETHENE
29	15:48	0	0.854	1.00	50.00	50.00	0.542	0.542	1.00	29	DIBROMOCHLOROMETHANE
30	18:12	0	0.984	1.00	50.00	50.00	0.205	0.205	1.00	30	METHYLCYCLOHEXANE
31	15:57	0	0.862	1.00	50.00	50.00	0.357	0.357	1.00	31	1,1,2-TRICHLOROETHANE
32	15:57	0	0.862	1.00	50.00	50.00	0.896	0.896	1.00	32	BENZENE
33	16:03	0	0.868	1.00	50.00	50.00	0.414	0.414	1.00	33	TRANS-1,3-DICHLOROPROPENE
34	17:12	0	0.930	1.00	50.00	50.00	0.196	0.196	1.00	34	2-CHLOROETHYLVINYLETHER
35	18:24	0	0.995	1.00	50.00	50.00	0.345	0.345	1.00	35	BROMOFORM
37	19:09	0	0.822	1.00	50.00	50.00	0.538	0.538	1.00	37	4-METHYL-2-PENTANONE
38	20:45	0	0.891	1.00	50.00	50.00	0.401	0.401	1.00	38	2-HEXANONE
39	20:42	0	0.888	1.00	50.00	50.00	0.530	0.530	1.00	39	1,1,2,2-TETRACHLOROETHANE
40	20:57	0	0.899	1.00	50.00	50.00	0.515	0.515	1.00	40	TETRACHLOROETHENE
41	21:48	0	0.936	1.00	50.00	50.00	0.315	0.315	1.00	41	BUTYL ACETATE
43	22:21	0	0.959	1.00	50.00	50.00	0.722	0.722	1.00	43	TOLUENE
44	23:24	0	1.004	1.00	50.00	50.00	0.994	0.994	1.00	44	CHLOROBENZENE
45	25:15	0	1.084	1.00	50.00	50.00	0.351	0.351	1.00	45	ETHYLBENZENE
47	28:24	0	1.219	1.00	50.00	50.00	0.695	0.695	1.00	47	STYRENE
48	28:42	0	1.232	1.00	50.00	50.00	0.449	0.449	1.00	48	M-XYLENE
49	29:18	0	1.258	1.00	30.00	30.00	0.349	0.349	1.00	49	O- & P-XYLENE
50	32:36	0	1.399	1.00	50.00	50.00	0.462	0.462	1.00	50	O-DICHLOROBENZENE
51	7:57	0	1.006	1.00	50.00	50.00	0.813	0.813	1.00	51	CYCLOPENTANE
52	28:42	0	1.232	1.00	50.00	50.00	0.449	0.449	1.00	52	XYLENE (TOTAL)
53	7:03	0	0.892	1.00	50.00	50.00	0.027	0.027	1.00	53	2-PROPANOL

PROCEDURE: TCA DIAGNOSTIC REPORT 5/21/90 11:50:07
DATA FILE: CKQ05DLHV
REFERENCE: UTABLE
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	13	10	12	112	UMRET1/UMUNK1
2	2	1	0	14	13	24	59	UMRET2/UMUNK2
2	2	1	0	13	13	6	48	UMRET2/UMUNK3
2	1	1	0	9	9	1	36	UMRET3/UMUNK4
1	1	1	0	8	2	8	49	UMRET4/UMUNK5

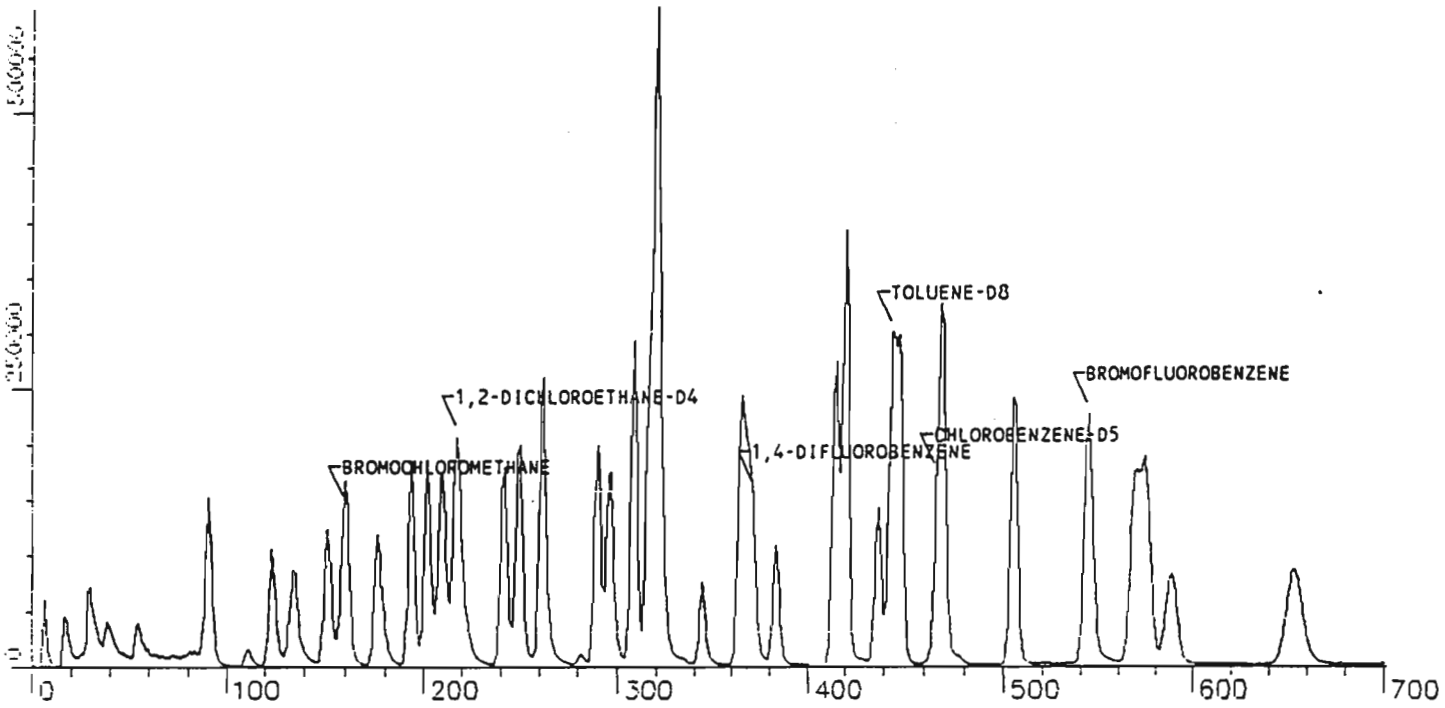
52 COMPOUNDS PROCESSED, 47 FOUND

COMPOUND			SEARCH					SAT	CHRO			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	UM	1	-158	158	158	.	1	977	.	128	158	.	1
2	UM	2	-18	17	17	.	3	996	.	50	17	.	1
3	UM	3	-30	29	.	.	.	.	.	94	29	.	1
4	UM	4	-40	39	38	-1	2	998	.	62	38	.	1
5	UM	5	-55	54	54	.	1	994	.	64	54	.	1
6	UM	6	-89	88	89	1	1	992	.	84	89	.	1
7	UM	7	-113	112	110	-2	1	981	.	43	110	.	1
8	UM	8	-112	111	111	.	2	999	.	56	111	.	1
9	UM	9	-125	124	.	.	.	.	.	53	124	.	1
10	UM	10	-122	121	123	2	1	1000	.	76	123	.	1
11	UM	11	-134	133	133	.	1	992	.	101	133	.	1
12	UM	12	-151	150	150	.	1	993	.	96	150	.	1
13	UM	53	-144	143	.	.	.	.	.	45	141	.	1
14	UM	13	-371	370	370	.	1	999	.	114	370	.	1
15	UM	51	-160	159	159	.	1	993	.	55	159	.	1
16	UM	14	-176	175	175	.	1	996	.	63	175	.	1
17	UM	15	-180	179	.	.	.	.	.	71	179	.	1
18	UM	16	-193	192	192	.	1	994	.	96	193	1	1
19	UM	17	-202	201	201	.	2	994	.	83	201	.	1
20	UM	18	-219	218	218	.	2	975	.	62	218	.	1
21	UM	19	-217	216	216	.	1	993	.	65	216	.	1
22	UM	20	-224	223	223	.	3	995	.	72	223	.	1
23	UM	21	-210	209	208	-1	1	998	.	101	208	.	1
24	UM	22	-242	241	240	-1	1	993	.	97	240	.	1
25	UM	23	-250	249	248	-1	2	993	.	117	248	.	1
26	UM	24	-262	261	260	-1	1	995	.	43	260	.	1
27	UM	25	-262	261	261	.	1	985	.	83	261	.	1
28	UM	26	-291	290	289	-1	1	975	.	83	289	.	1
29	UM	27	-297	296	296	.	3	1000	.	75	296	.	1
30	UM	28	-309	308	308	.	1	995	.	130	308	.	1
31	UM	29	-316	315	316	1	1	994	.	129	316	.	1
32	UM	30	-365	364	364	.	1	996	.	98	364	.	1
33	UM	31	-320	319	319	.	1	992	.	97	319	.	1
34	UM	32	-320	319	319	.	1	993	.	78	319	.	1
35	UM	33	-322	321	321	.	2	993	.	75	321	.	1
36	UM	34	-345	344	344	.	1	989	.	63	344	.	1
37	UM	35	-369	368	368	.	1	984	.	173	368	.	1
38	UM	36	-467	466	.	.	.	.	.	117	466	.	1
39	UM	37	-384	383	383	.	1	987	.	43	383	.	1
40	UM	38	-416	415	415	.	1	953	.	43	415	.	1
41	UM	39	-415	414	414	.	1	999	.	83	414	.	1
42	UM	40	-421	420	419	-1	1	983	.	164	419	.	1
43	UM	41	-438	437	437	.	1	993	.	56	436	-1	1
44	UM	42	-444	443	443	.	1	992	.	98	443	.	1
45	UM	43	-448	447	447	.	1	991	.	92	447	.	1
46	UM	44	-469	468	468	.	1	996	.	112	468	.	1
47	UM	45	-506	505	505	.	1	994	.	106	505	.	1
48	UM	46	-545	544	543	-1	1	995	.	95	544	1	1
49	UM	47	-569	568	568	.	2	994	.	104	568	.	1
50	UM	48	-575	574	574	.	2	997	.	106	574	.	1
51	UM	49	-589	588	587	-1	2	990	.	106	586	-1	1
52	UM	50	-653	652	652	.	1	970	.	146	652	.	1

CKT150HV 1

05/21/90 1313
OWAC -- CMP

Sample: VSTD150 CRV#CKT
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKT Submitted by: AQUTEC
Volume: 5.000 ml



No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
1	128	159	7:57	1	1.000	A BB	31275.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	371	18:33	13	1.000	A BB	136700.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	466	23:18	36	1.000	A BB	113713.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	217	10:51	1	1.365	A BB	172835.	150.000 PPB	300.0	19	1,2-DICHLOROETHANE-D4
42	98	444	22:12	36	0.953	A BB	364275.	150.000 PPB	300.0	42	TOLUENE-D8
46	95	544	27:12	36	1.167	A BB	210610.	150.000 PPB	300.0	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	18:33	0	1.000	1.00	50.00	50.00	1.000	1.000	1.00	13	1,4-DIFLUOROBENZENE
36	23:18	0	1.000	1.00	50.00	50.00	1.000	1.000	1.00	36	CHLOROBENZENE-D5
19	10:51	0	1.365	1.00	150.00	150.00	1.842	1.842	1.00	19	1,2-DICHLOROETHANE-D4
42	22:12	0	0.953	1.00	150.00	150.00	1.068	1.068	1.00	42	TOLUENE-D8
46	27:12	0	1.167	1.00	150.00	150.00	0.617	0.617	1.00	46	BROMOFLUOROBENZENE

CKT150HV (05/21/90 13:13) RFs loaded on OWAC 5/21/90 14:19:41

Sample: VSTD150 CRV#CKT
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKT Submitted by: AQUTEC
Volume: 5.000 ml

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
2	50	17	0:51	1	0.107	A BB	85483.	165.000 PPB		2	CHLOROMETHANE
3	94	30	1:30	1	0.189	A BB	93873.	165.000 PPB		3	BROMOMETHANE
4	62	39	1:57	1	0.245	A BB	79974.	150.000 PPB		4	VINYL CHLORIDE
5	64	55	2:45	1	0.346	A BB	59809.	165.000 PPB		5	CHLOROETHANE
6	84	90	4:30	1	0.566	A BB	105197.	150.000 PPB		6	METHYLENE CHLORIDE
7	43	111	5:33	1	0.698	A BV	26184.	150.000 PPB		7	ACETONE
8	56	111	5:33	1	0.698	A BB	13983.	150.000 PPB		8	ACROLEIN
9	53	124	6:12	1	0.780	A BB	30101.	150.000 PPB		9	ACRYLONITRILE
10	76	123	6:09	1	0.774	A BB	278868.	150.000 PPB		10	CARBON DISULFIDE
11	101	134	6:42	1	0.843	A BB	170808.	150.000 PPB		11	TRICHLOROFLUOROMETHANE
12	96	151	7:33	1	0.950	A BB	87424.	150.000 PPB		12	1,1-DICHLOROETHENE
14	63	176	8:48	1	1.107	A BV	198889.	150.000 PPB		14	1,1-DICHLOROETHANE
15	71	179	8:57	1	1.126	A BV	11978.	150.000 PPB		15	TETRAHYDROFURAN
16	96	193	9:39	1	1.214	A BB	112129.	150.000 PPB		16	1,2-DICHLOROETHENE (TOTAL)
17	83	202	10:06	1	1.270	A BB	248967.	150.000 PPB		17	CHLOROFORM
18	62	219	10:57	1	1.377	A BV	173788.	150.000 PPB		18	1,2-DICHLOROETHANE
20	72	223	11:09	1	1.403	A BB	9190.	150.000 PPB		20	2-BUTANONE
21	101	210	10:30	13	0.566	A BB	178016.	150.000 PPB		21	FREON TF
22	97	242	12:06	13	0.652	A BB	200498.	150.000 PPB		22	1,1,1-TRICHLOROETHANE
23	117	250	12:30	13	0.674	A VV	209008.	150.000 PPB		23	CARBON TETRACHLORIDE
24	43	261	13:03	13	0.704	A BV	219579.	150.000 PPB		24	VINYL ACETATE
25	83	262	13:06	13	0.706	A BB	245207.	150.000 PPB		25	BROMODICHLOROMETHANE
26	63	290	14:30	13	0.782	A BV	140915.	150.000 PPB		26	1,2-DICHLOROPROPANE
27	75	296	14:48	13	0.798	A BB	205655.	150.000 PPB		27	CIS-1,3-DICHLOROPROPENE
28	130	309	15:27	13	0.833	A BB	175359.	150.000 PPB		28	TRICHLOROETHENE
29	129	316	15:48	13	0.852	A BB	247728.	150.000 PPB		29	DIBROMOCHLOROMETHANE
30	98	365	18:15	13	0.984	A BB	81154.	150.000 PPB		30	METHYLCYCLOHEXANE
31	97	320	16:00	13	0.863	A VB	149674.	150.000 PPB		31	1,1,2-TRICHLOROETHANE
32	78	320	16:00	13	0.863	A BB	364694.	150.000 PPB		32	BENZENE
33	75	322	16:06	13	0.868	A BB	189762.	150.000 PPB		33	TRANS-1,3-DICHLOROPROPENE
34	63	344	17:12	13	0.927	A BB	62178.	150.000 PPB		34	2-CHLOROETHYLVINYLETHER
35	173	368	18:24	13	0.992	A BV	167979.	150.000 PPB		35	BROMOFORM
37	43	383	19:09	36	0.822	A BB	180680.	150.000 PPB		37	4-METHYL-2-PENTANONE
38	43	415	20:45	36	0.891	A BB	151898.	150.000 PPB		38	2-HEXANONE
39	83	415	20:45	36	0.891	A BB	217121.	150.000 PPB		39	1,1,2,2-TETRACHLOROETHANE
40	164	420	21:00	36	0.901	A BB	159206.	150.000 PPB		40	TETRACHLOROETHENE
41	56	437	21:51	36	0.938	A BB	106510.	150.000 PPB		41	BUTYL ACETATE
43	92	448	22:24	36	0.961	A BB	236517.	150.000 PPB		43	TOLUENE
44	112	469	23:27	36	1.006	A BB	323512.	150.000 PPB		44	CHLOROBENZENE
45	106	505	25:15	36	1.084	A BB	126469.	150.000 PPB		45	ETHYLBENZENE
47	104	569	28:27	36	1.221	A BV	251861.	150.000 PPB		47	STYRENE
48	106	574	28:42	36	1.232	A BV	158270.	150.000 PPB		48	M-XYLENE
49	106	588	29:24	36	1.262	A VB	77678.	90.000 PPB		49	O- & P-XYLENE
50	146	653	32:39	36	1.401	A BB	176176.	150.000 PPB		50	O-DICHLOROBENZENE
51	55	160	8:00	1	1.006	A BB	71391.	150.000 PPB		51	CYCLOPENTANE
52	106	574	28:42	36	1.232	A BV	158270.	150.000 PPB		52	XYLENE (TOTAL)
53	45	141	7:03	1	0.887	A BB	3729.	150.000 PPB		53	2-PROPANOL

CKT150HV 3

05/21/90 1313
OWAC -- CMP

Sample: VSTD150 CRV#CKT
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKT Submitted by: AQUTEC
Volume: 5.000 ml

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	0:51	0	0.107	1.00	165.00	165.00	0.828	0.828	1.00	2	CHLOROMETHANE
3	1:30	0	0.189	1.00	165.00	165.00	0.910	0.910	1.00	3	BROMOMETHANE
4	1:57	0	0.245	1.00	150.00	150.00	0.852	0.852	1.00	4	VINYL CHLORIDE
5	2:45	0	0.346	1.00	165.00	165.00	0.580	0.580	1.00	5	CHLOROETHANE
6	4:30	0	0.566	1.00	150.00	150.00	1.121	1.121	1.00	6	METHYLENE CHLORIDE
7	5:33	0	0.698	1.00	150.00	150.00	0.279	0.279	1.00	7	ACETONE
8	5:33	0	0.698	1.00	150.00	150.00	0.149	0.149	1.00	8	ACROLEIN
9	6:12	0	0.780	1.00	150.00	150.00	0.321	0.321	1.00	9	ACRYLONITRILE
10	6:09	0	0.774	1.00	150.00	150.00	2.972	2.972	1.00	10	CARBON DISULFIDE
11	6:42	0	0.843	1.00	150.00	150.00	1.820	1.820	1.00	11	TRICHLOROFLUOROMETHANE
12	7:33	0	0.950	1.00	150.00	150.00	0.932	0.932	1.00	12	1,1-DICHLOROETHENE
14	8:48	0	1.107	1.00	150.00	150.00	2.120	2.120	1.00	14	1,1-DICHLOROETHANE
15	8:57	0	1.126	1.00	150.00	150.00	0.128	0.128	1.00	15	TETRAHYDROFURAN
16	9:39	0	1.214	1.00	150.00	150.00	1.195	1.195	1.00	16	1,2-DICHLOROETHENE (TOTAL)
17	10:06	0	1.270	1.00	150.00	150.00	2.654	2.654	1.00	17	CHLOROFORM
18	10:57	0	1.377	1.00	150.00	150.00	1.852	1.852	1.00	18	1,2-DICHLOROETHANE
20	11:09	0	1.403	1.00	150.00	150.00	0.098	0.098	1.00	20	2-BUTANONE
21	10:30	0	0.566	1.00	150.00	150.00	0.434	0.434	1.00	21	FREON TF
22	12:06	0	0.652	1.00	150.00	150.00	0.489	0.489	1.00	22	1,1,1-TRICHLOROETHANE
23	12:30	0	0.674	1.00	150.00	150.00	0.510	0.510	1.00	23	CARBON TETRACHLORIDE
24	13:03	0	0.704	1.00	150.00	150.00	0.535	0.535	1.00	24	VINYL ACETATE
25	13:06	0	0.706	1.00	150.00	150.00	0.598	0.598	1.00	25	BROMODICHLOROMETHANE
26	14:30	0	0.782	1.00	150.00	150.00	0.344	0.344	1.00	26	1,2-DICHLOROPROPANE
27	14:48	0	0.798	1.00	150.00	150.00	0.501	0.501	1.00	27	CIS-1,3-DICHLOROPROPENE
28	15:27	0	0.833	1.00	150.00	150.00	0.428	0.428	1.00	28	TRICHLOROETHENE
29	15:48	0	0.852	1.00	150.00	150.00	0.604	0.604	1.00	29	DIBROMOCHLOROMETHANE
30	18:15	0	0.984	1.00	150.00	150.00	0.198	0.198	1.00	30	METHYLCYCLOHEXANE
31	16:00	0	0.863	1.00	150.00	150.00	0.365	0.365	1.00	31	1,1,2-TRICHLOROETHANE
32	16:00	0	0.863	1.00	150.00	150.00	0.889	0.889	1.00	32	BENZENE
33	16:06	0	0.868	1.00	150.00	150.00	0.463	0.463	1.00	33	TRANS-1,3-DICHLOROPROPENE
34	17:12	0	0.927	1.00	150.00	150.00	0.152	0.152	1.00	34	2-CHLOROETHYLVINYLETHER
35	18:24	0	0.992	1.00	150.00	150.00	0.410	0.410	1.00	35	BROMOFORM
37	19:09	0	0.822	1.00	150.00	150.00	0.530	0.530	1.00	37	4-METHYL-2-PENTANONE
38	20:45	0	0.891	1.00	150.00	150.00	0.445	0.445	1.00	38	2-HEXANONE
39	20:45	0	0.891	1.00	150.00	150.00	0.636	0.636	1.00	39	1,1,2,2-TETRACHLOROETHANE
40	21:00	0	0.901	1.00	150.00	150.00	0.467	0.467	1.00	40	TETRACHLOROETHENE
41	21:51	0	0.938	1.00	150.00	150.00	0.312	0.312	1.00	41	BUTYL ACETATE
43	22:24	0	0.961	1.00	150.00	150.00	0.693	0.693	1.00	43	TOLUENE
44	23:27	0	1.006	1.00	150.00	150.00	0.948	0.948	1.00	44	CHLOROBENZENE
45	25:15	0	1.084	1.00	150.00	150.00	0.371	0.371	1.00	45	ETHYLBENZENE
47	28:27	0	1.221	1.00	150.00	150.00	0.738	0.738	1.00	47	STYRENE
48	28:42	0	1.232	1.00	150.00	150.00	0.464	0.464	1.00	48	M-XYLENE
49	29:24	0	1.262	1.00	90.00	90.00	0.380	0.380	1.00	49	O- & P-XYLENE
50	32:39	0	1.401	1.00	150.00	150.00	0.516	0.516	1.00	50	O-DICHLOROBENZENE
51	8:00	0	1.006	1.00	150.00	150.00	0.761	0.761	1.00	51	CYCLOPENTANE
52	28:42	0	1.232	1.00	150.00	150.00	0.464	0.464	1.00	52	XYLENE (TOTAL)
53	7:03	0	0.887	1.00	150.00	150.00	0.040	0.040	1.00	53	2-PROPANOL

PROCEDURE TCA DIAGNOSTIC REPORT 5/21/90 13:51:09
DATA FILE: CK1150HV
REFERENCE: UTAB1I
NAME 1 IST UM INITIALIZATION OPTION 2 PROCESSING OPTION 3
REPORT: UMRET1

STANDARDS PROC	USED	POSS	RMS	PLUS UNKNOWNS PROC	USED	POSS	RMS	LIST NAMES - STANDARD/UNKNOWN
1	1	1	0	13	10	12	101	UMRET1/UMUNK1
2	2	1	0	14	13	48	39	UMRET2/UMUNK2
2	2	1	0	13	13	4	56	UMRET2/UMUNK3
2	2	1	0	9	9	1	56	UMRET3/UMUNK4
1	1	1	0	8	8	4	55	UMRET4/UMUNK5

52 COMPOUNDS PROCESSED. 45 FOUND

COMPOUND NO	LIB	ENTRY	SEARCH REF	PRED	SEL	DELTA	PEAKS	FIT	SAT PEAKS	CHRO M/Z	TOP	DELTA	PEAKS
1	UM	1	-158	159	159	.	1	984	.	128	159	.	1
2	UM	2	-18	17	17	.	3	994	.	50	17	.	1
3	UM	3	-30	29	.	.	.	.	.	94	30	.	1
4	UM	4	-40	39	39	.	1	995	.	62	39	.	1
5	UM	5	-55	54	55	1	2	997	.	64	55	.	1
6	UM	6	-89	89	90	1	1	987	.	84	90	.	1
7	UM	7	-113	113	111	-2	2	991	.	43	111	.	1
8	UM	8	-112	112	111	-1	1	1000	.	56	111	.	1
9	UM	9	-125	125	.	.	.	.	.	53	124	.	1
10	UM	10	-122	122	123	1	1	998	.	76	123	.	1
11	UM	11	-134	134	134	.	1	997	.	101	134	.	1
12	UM	12	-151	151	151	.	1	990	.	96	151	.	1
13	UM	53	-144	144	.	.	.	.	.	45	.	.	.
14	UM	13	-371	371	371	.	1	997	.	114	371	.	1
15	UM	51	-160	160	160	.	1	992	.	55	160	.	1
16	UM	14	-176	176	176	.	1	998	.	63	176	.	1
17	UM	15	-180	180	.	.	.	.	.	71	179	.	1
18	UM	16	-193	193	193	.	2	993	.	96	193	.	1
19	UM	17	-202	202	202	.	2	995	.	83	202	.	1
20	UM	18	-219	219	219	.	1	973	.	62	219	.	1
21	UM	19	-217	217	217	.	2	995	.	65	217	.	1
22	UM	20	-224	224	224	.	3	997	.	72	223	-1	1
23	UM	21	-210	210	210	.	1	997	.	101	210	.	1
24	UM	22	-242	242	242	.	1	996	.	97	242	.	1
25	UM	23	-250	250	250	.	2	992	.	117	250	.	1
26	UM	24	-262	262	261	-1	1	997	.	43	261	.	1
27	UM	25	-262	262	262	.	1	983	.	83	262	.	1
28	UM	26	-291	291	290	-1	1	974	.	63	290	.	1
29	UM	27	-297	297	296	-1	2	977	.	75	296	.	1
30	UM	28	-309	309	309	.	1	996	.	130	309	.	1
31	UM	29	-316	316	316	.	1	995	.	129	316	.	1
32	UM	30	-365	364	365	1	1	994	.	98	365	.	1
33	UM	31	-320	320	320	.	1	994	.	97	320	.	1
34	UM	32	-320	320	320	.	1	993	.	78	320	.	1
35	UM	33	-322	322	321	-1	2	990	.	75	322	1	1
36	UM	34	-345	344	344	.	1	990	.	63	344	.	1
37	UM	35	-369	368	368	.	1	990	.	173	368	.	1
38	UM	36	-467	466	466	.	1	988	.	117	466	.	1
39	UM	37	-384	384	383	-1	1	984	.	43	383	.	1
40	UM	38	-416	416	415	.	1	955	.	43	415	.	1
41	UM	39	-415	414	415	1	1	997	.	83	415	.	1
42	UM	40	-421	420	420	.	1	980	.	164	420	.	1
43	UM	41	-438	437	437	.	1	989	.	56	437	.	1
44	UM	42	-444	443	444	1	1	991	.	98	444	.	1
45	UM	43	-448	447	448	1	1	991	.	92	448	.	1
46	UM	44	-469	469	469	.	1	995	.	112	469	.	1
47	UM	45	-506	506	505	-1	1	992	.	106	505	.	1
48	UM	46	-545	544	544	.	1	998	.	95	544	.	1
49	UM	47	-569	568	569	1	1	995	.	104	569	.	1
50	UM	48	-575	574	574	.	2	996	.	106	574	.	1
51	UM	49	-589	588	588	.	2	990	.	106	588	.	1
52	UM	50	-653	652	653	1	1	989	.	146	653	.	1

CKT020HV 1

05/21/90 1404

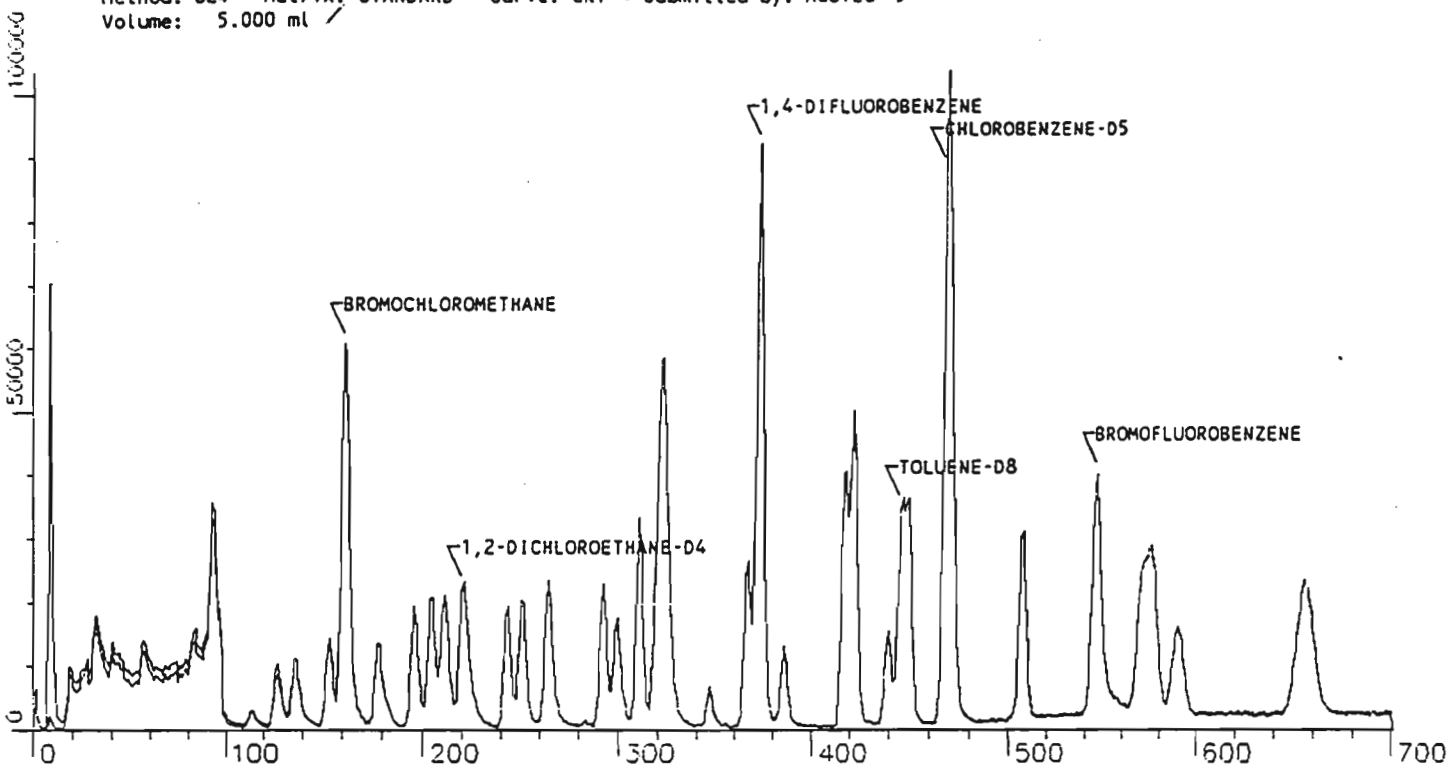
OWAC -- CMP

Sample: VSTD020 CRV#CKT

Conditions: GC/MS OWAC

Method: 624 Matrix: STANDARD Curve: CKT Submitted by: AQUTEC

Volume: 5.000 ml



No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
1	128	161	8:03	1	1.000	A BB	29142.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	373	18:39	13	1.000	A BB	124196.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	468	23:24	36	1.000	A BB	104736.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	220	11:00	1	1.366	A BB	22257.	20.000 PPB	40.0	19	1,2-DICHLOROETHANE-D4
42	98	446	22:18	36	0.953	A BB	43714.	20.000 PPB	40.0	42	TOLUENE-D8
46	95	547	27:21	36	1.169	A BB	31226.	20.000 PPB	40.0	46	BROMOFLUOROBENZENE

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
1	8:03	0	1.000	1.00	50.00	50.00	1.000	1.000	1.00	1	BROMOCHLOROMETHANE
13	18:39	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	11:00	0	1.366	1.00	20.00	20.00	1.909	1.909	1.00	19	1,2-DICHLOROETHANE-D4
42	22:18	0	0.953	1.00	20.00	20.00	1.043	1.043	1.00	42	TOLUENE-D8
46	27:21	0	1.169	1.00	20.00	20.00	0.745	0.745	1.00	46	BROMOFLUOROBENZENE

CKT020HV (05/21/90 14: 4) RFs loaded on OWAC 5/21/90 14:55:21

CKT020HV 2
05/21/90 1404
OWAC -- CMP

Sample: VSTD020 CRV#CKT
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKT Submitted by: AQUTEC
Volume: 5.000 ml

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
2	50	19	0:57	1	0.118	A BB	11375.	22.000 PPB		2	CHLOROMETHANE
3	94	32	1:36	1	0.199	A BB	14186.	22.000 PPB		3	BROMOMETHANE
4	62	41	2:03	1	0.255	A BV	9543.	20.000 PPB		4	VINYL CHLORIDE
5	64	57	2:51	1	0.354	A BB	8630.	22.000 PPB		5	CHLOROETHANE
6	84	93	4:39	1	0.578	A BB	15579.	20.000 PPB		6	METHYLENE CHLORIDE
7	43	113	5:39	1	0.702	A BB	6121.	20.000 PPB		7	ACETONE
8	56	116	5:48	1	0.720	A BB	1385.	20.000 PPB		8	ACROLEIN
9	53	128	6:24	1	0.795	A BB	3700.	20.000 PPB		9	ACRYLONITRILE
10	76	127	6:21	1	0.789	A BB	29786.	20.000 PPB		10	CARBON DISULFIDE
11	101	136	6:48	1	0.845	A BB	19298.	20.000 PPB		11	TRICHLOROFLUOROMETHANE
12	96	153	7:39	1	0.950	A BB	10587.	20.000 PPB		12	1,1-DICHLOROETHENE
14	63	178	8:54	1	1.106	A BB	25208.	20.000 PPB		14	1,1-DICHLOROETHANE
15	71	182	9:06	1	1.130	A BB	1259.	20.000 PPB		15	TETRAHYDROFURAN
16	96	196	9:48	1	1.217	A BB	13394.	20.000 PPB		16	1,2-DICHLOROETHENE (TOTAL)
17	83	205	10:15	1	1.273	A BB	30567.	20.000 PPB		17	CHLOROFORM
18	62	222	11:06	1	1.379	A BV	22044.	20.000 PPB		18	1,2-DICHLOROETHANE
20	72	227	11:21	1	1.410	A BB	1194.	20.000 PPB		20	2-BUTANONE
21	101	211	10:33	13	0.566	A BB	20340.	20.000 PPB		21	FREON TF
22	97	244	12:12	13	0.654	A BB	21625.	20.000 PPB		22	1,1,1-TRICHLOROETHANE
23	117	251	12:33	13	0.673	A VB	21575.	20.000 PPB		23	CARBON TETRACHLORIDE
24	43	264	13:12	13	0.708	A BV	22338.	20.000 PPB		24	VINYL ACETATE
25	83	265	13:15	13	0.710	A BB	25543.	20.000 PPB		25	BROMODICHLOROMETHANE
26	63	293	14:39	13	0.786	A BB	17873.	20.000 PPB		26	1,2-DICHLOROPROPANE
27	75	300	15:00	13	0.804	A BB	20947.	20.000 PPB		27	CIS-1,3-DICHLOROPROPENE
28	130	311	15:33	13	0.834	A BB	21051.	20.000 PPB		28	TRICHLOROETHENE
29	129	320	16:00	13	0.858	A BB	24920.	20.000 PPB		29	DIBROMOCHLOROMETHANE
30	98	366	18:18	13	0.981	A BB	9139.	20.000 PPB		30	METHYLCYCLOHEXANE
31	97	322	16:06	13	0.863	A BB	16738.	20.000 PPB		31	1,1,2-TRICHLOROETHANE
32	78	322	16:06	13	0.863	A BB	42045.	20.000 PPB		32	BENZENE
33	75	326	16:18	13	0.874	A BB	18549.	20.000 PPB		33	TRANS-1,3-DICHLOROPROPENE
34	63	347	17:21	13	0.930	A BB	5907.	20.000 PPB		34	2-CHLOROETHYLVINYLETHER
35	173	372	18:36	13	0.997	A BB	16532.	20.000 PPB		35	BROMOFORM
37	43	386	19:18	36	0.825	A BV	22552.	20.000 PPB		37	4-METHYL-2-PENTANONE
38	43	418	20:54	36	0.893	A BB	18409.	20.000 PPB		38	2-HEXANONE
39	83	417	20:51	36	0.891	A BB	37124.	20.000 PPB		39	1,1,2,2-TETRACHLOROETHANE
40	164	422	21:06	36	0.902	A BB	20458.	20.000 PPB		40	TETRACHLOROETHENE
41	56	439	21:57	36	0.938	A BB	12807.	20.000 PPB		41	BUTYL ACETATE
43	92	450	22:30	36	0.962	A BB	28660.	20.000 PPB		43	TOLUENE
44	112	471	23:33	36	1.006	A BB	40566.	20.000 PPB		44	CHLOROBENZENE
45	106	507	25:21	36	1.083	A BB	15726.	20.000 PPB		45	ETHYLBENZENE
47	104	571	28:33	36	1.220	A BB	33380.	20.000 PPB		47	STYRENE
48	106	576	28:48	36	1.231	A BV	21896.	20.000 PPB		48	M-XYLENE
49	106	591	29:33	36	1.263	A VB	13869.	12.000 PPB		49	O- & P-XYLENE
50	146	656	32:48	36	1.402	A BB	42777.	20.000 PPB		50	O-DICHLOROBENZENE
51	55	162	8:06	1	1.006	A BB	8490.	20.000 PPB		51	CYCLOPENTANE
52	106	576	28:48	36	1.231	A BV	21896.	20.000 PPB		52	XYLENE (TOTAL)
53	45	143	7:09	1	0.888	A BB	882.	20.000 PPB		53	2-PROPANOL

CKT020HV 3

05/21/90 1404
OWAC -- CMP

Sample: VSTD020 CRV#CKT
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKT Submitted by: AQUTEC
Volume: 5.000 ml

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	0:57	0	0.118	1.00	22.00	22.00	0.887	0.887	1.00	2	CHLOROMETHANE
3	1:36	0	0.199	1.00	22.00	22.00	1.106	1.106	1.00	3	BROMOMETHANE
4	2:03	0	0.255	1.00	20.00	20.00	0.819	0.819	1.00	4	VINYL CHLORIDE
5	2:51	0	0.354	1.00	22.00	22.00	0.673	0.673	1.00	5	CHLOROETHANE
6	4:39	0	0.578	1.00	20.00	20.00	1.336	1.336	1.00	6	METHYLENE CHLORIDE
7	5:39	0	0.702	1.00	20.00	20.00	0.525	0.525	1.00	7	ACETONE
8	5:48	0	0.720	1.00	20.00	20.00	0.119	0.119	1.00	8	ACROLEIN
9	6:24	0	0.795	1.00	20.00	20.00	0.317	0.317	1.00	9	ACRYLONITRILE
10	6:21	0	0.789	1.00	20.00	20.00	2.555	2.555	1.00	10	CARBON DISULFIDE
11	6:48	0	0.845	1.00	20.00	20.00	1.656	1.656	1.00	11	TRICHLOROFLUOROMETHANE
12	7:39	0	0.950	1.00	20.00	20.00	0.908	0.908	1.00	12	1,1-DICHLOROETHENE
14	8:54	0	1.106	1.00	20.00	20.00	2.162	2.162	1.00	14	1,1-DICHLOROETHANE
15	9:06	0	1.130	1.00	20.00	20.00	0.108	0.108	1.00	15	TETRAHYDROFURAN
16	9:48	0	1.217	1.00	20.00	20.00	1.149	1.149	1.00	16	1,2-DICHLOROETHENE (TOTAL)
17	10:15	0	1.273	1.00	20.00	20.00	2.622	2.622	1.00	17	CHLOROFORM
18	11:06	0	1.379	1.00	20.00	20.00	1.891	1.891	1.00	18	1,2-DICHLOROETHANE
20	11:21	0	1.410	1.00	20.00	20.00	0.102	0.102	1.00	20	2-BUTANONE
21	10:33	0	0.566	1.00	20.00	20.00	0.409	0.409	1.00	21	FREON TF
22	12:12	0	0.654	1.00	20.00	20.00	0.435	0.435	1.00	22	1,1,1-TRICHLOROETHANE
23	12:33	0	0.673	1.00	20.00	20.00	0.434	0.434	1.00	23	CARBON TETRACHLORIDE
24	13:12	0	0.708	1.00	20.00	20.00	0.450	0.450	1.00	24	VINYL ACETATE
25	13:15	0	0.710	1.00	20.00	20.00	0.514	0.514	1.00	25	BROMODICHLOROMETHANE
26	14:39	0	0.786	1.00	20.00	20.00	0.360	0.360	1.00	26	1,2-DICHLOROPROPANE
27	15:00	0	0.804	1.00	20.00	20.00	0.422	0.422	1.00	27	CIS-1,3-DICHLOROPROPENE
28	15:33	0	0.834	1.00	20.00	20.00	0.424	0.424	1.00	28	TRICHLOROETHENE
29	16:00	0	0.858	1.00	20.00	20.00	0.502	0.502	1.00	29	DIBROMOCHLOROMETHANE
30	18:18	0	0.981	1.00	20.00	20.00	0.184	0.184	1.00	30	METHYLCYCLOHEXANE
31	16:06	0	0.863	1.00	20.00	20.00	0.337	0.337	1.00	31	1,1,2-TRICHLOROETHANE
32	16:06	0	0.863	1.00	20.00	20.00	0.846	0.846	1.00	32	BENZENE
33	16:18	0	0.874	1.00	20.00	20.00	0.373	0.373	1.00	33	TRANS-1,3-DICHLOROPROPENE
34	17:21	0	0.930	1.00	20.00	20.00	0.119	0.119	1.00	34	2-CHLOROETHYLVINYLETHER
35	18:36	0	0.997	1.00	20.00	20.00	0.333	0.333	1.00	35	BROMOFORM
37	19:18	0	0.825	1.00	20.00	20.00	0.538	0.538	1.00	37	4-METHYL-2-PENTANONE
38	20:54	0	0.893	1.00	20.00	20.00	0.439	0.439	1.00	38	2-HEXANONE
39	20:51	0	0.891	1.00	20.00	20.00	0.886	0.886	1.00	39	1,1,2,2-TETRACHLOROETHANE
40	21:06	0	0.902	1.00	20.00	20.00	0.488	0.488	1.00	40	TETRACHLOROETHENE
41	21:57	0	0.938	1.00	20.00	20.00	0.306	0.306	1.00	41	BUTYL ACETATE
43	22:30	0	0.962	1.00	20.00	20.00	0.684	0.684	1.00	43	TOLUENE
44	23:33	0	1.006	1.00	20.00	20.00	0.968	0.968	1.00	44	CHLOROBENZENE
45	25:21	0	1.083	1.00	20.00	20.00	0.375	0.375	1.00	45	ETHYLBENZENE
47	28:33	0	1.220	1.00	20.00	20.00	0.797	0.797	1.00	47	STYRENE
48	28:48	0	1.231	1.00	20.00	20.00	0.523	0.523	1.00	48	M-XYLENE
49	29:33	0	1.263	1.00	12.00	12.00	0.552	0.552	1.00	49	O- & P-XYLENE
50	32:48	0	1.402	1.00	20.00	20.00	1.021	1.021	1.00	50	O-DICHLOROBENZENE
51	8:06	0	1.006	1.00	20.00	20.00	0.728	0.728	1.00	51	CYCLOPENTANE
52	28:48	0	1.231	1.00	20.00	20.00	0.523	0.523	1.00	52	XYLENE (TOTAL)
53	7:09	0	0.888	1.00	20.00	20.00	0.076	0.076	1.00	53	2-PROPANOL

PROCEDURE: TCA DIAGNOSTIC REPORT 5/21/90 14:38:48
DATA FILE: CKT020HV
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	13	10	8	151	UMRET1/UMUNK1
2	2	1	0	14	13	16	76	UMRET2/UMUNK2
2	2	1	0	13	13	4	76	UMRET2/UMUNK3
2	2	1	0	9	9	2	36	UMRET3/UMUNK4
1	1	1	0	8	8	6	77	UMRET4/UMUNK5

52 COMPOUNDS PROCESSED, 48 FOUND

COMPOUND			SEARCH					SAT		CHRO			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	UM	1	-158	161	161	.	1	980	.	128	161	.	1
2	UM	2	-18	19	19	.	1	991	.	50	19	.	1
3	UM	3	-30	31	.	.	.	.	.	94	32	.	1
4	UM	4	-40	42	41	-1	2	994	.	62	41	.	1
5	UM	5	-55	57	57	.	4	997	.	64	57	.	1
6	UM	6	-89	91	93	2	1	987	.	84	93	.	1
7	UM	7	-113	116	113	-3	1	971	.	43	113	.	1
8	UM	8	-112	115	116	1	1	998	.	56	116	.	1
9	UM	9	-125	128	.	.	.	.	.	53	128	.	1
10	UM	10	-122	125	127	2	1	999	.	76	127	.	1
11	UM	11	-134	137	136	-1	1	993	.	101	136	.	1
12	UM	12	-151	154	154	.	1	994	.	96	153	-1	1
13	UM	53	-144	147	.	.	.	.	.	45	149	.	1
14	UM	13	-371	373	373	.	1	998	.	114	373	.	1
15	UM	51	-160	163	162	-1	1	992	.	55	162	.	1
16	UM	14	-176	178	178	.	1	996	.	63	178	.	1
17	UM	15	-180	182	.	.	.	.	.	71	182	.	1
18	UM	16	-193	195	196	1	1	990	.	96	196	.	1
19	UM	17	-202	204	205	1	2	993	.	83	205	.	1
20	UM	18	-219	221	222	1	2	980	.	62	222	.	1
21	UM	19	-217	219	220	1	1	998	.	65	220	.	1
22	UM	20	-224	226	227	1	2	996	.	72	227	.	1
23	UM	21	-210	212	211	-1	1	997	.	101	211	.	1
24	UM	22	-242	244	244	.	1	995	.	97	244	.	1
25	UM	23	-250	252	251	-1	2	995	.	117	251	.	1
26	UM	24	-262	264	264	.	1	990	.	43	264	.	1
27	UM	25	-262	265	265	.	1	981	.	83	265	.	1
28	UM	26	-291	294	293	-1	1	974	.	63	293	.	1
29	UM	27	-297	300	300	.	2	969	.	75	300	.	1
30	UM	28	-309	312	311	-1	1	994	.	130	311	.	1
31	UM	29	-316	319	320	1	1	994	.	129	320	.	1
32	UM	30	-365	368	367	-1	1	992	.	98	366	-1	1
33	UM	31	-320	323	323	.	1	989	.	97	322	-1	1
34	UM	32	-320	323	322	-1	1	990	.	78	322	.	1
35	UM	33	-322	325	326	1	2	996	.	75	326	.	1
36	UM	34	-345	348	347	-1	1	984	.	63	347	.	1
37	UM	35	-369	372	372	.	1	927	.	173	372	.	1
38	UM	36	-467	469	469	.	1	999	.	117	468	-1	1
39	UM	37	-384	386	386	.	1	981	.	43	386	.	1
40	UM	38	-416	418	418	.	1	958	.	43	418	.	1
41	UM	39	-415	417	417	.	2	997	.	83	417	.	1
42	UM	40	-421	423	422	-1	1	981	.	164	422	.	1
43	UM	41	-438	440	440	.	1	990	.	56	439	-1	1
44	UM	42	-444	446	446	.	1	988	.	98	446	.	1

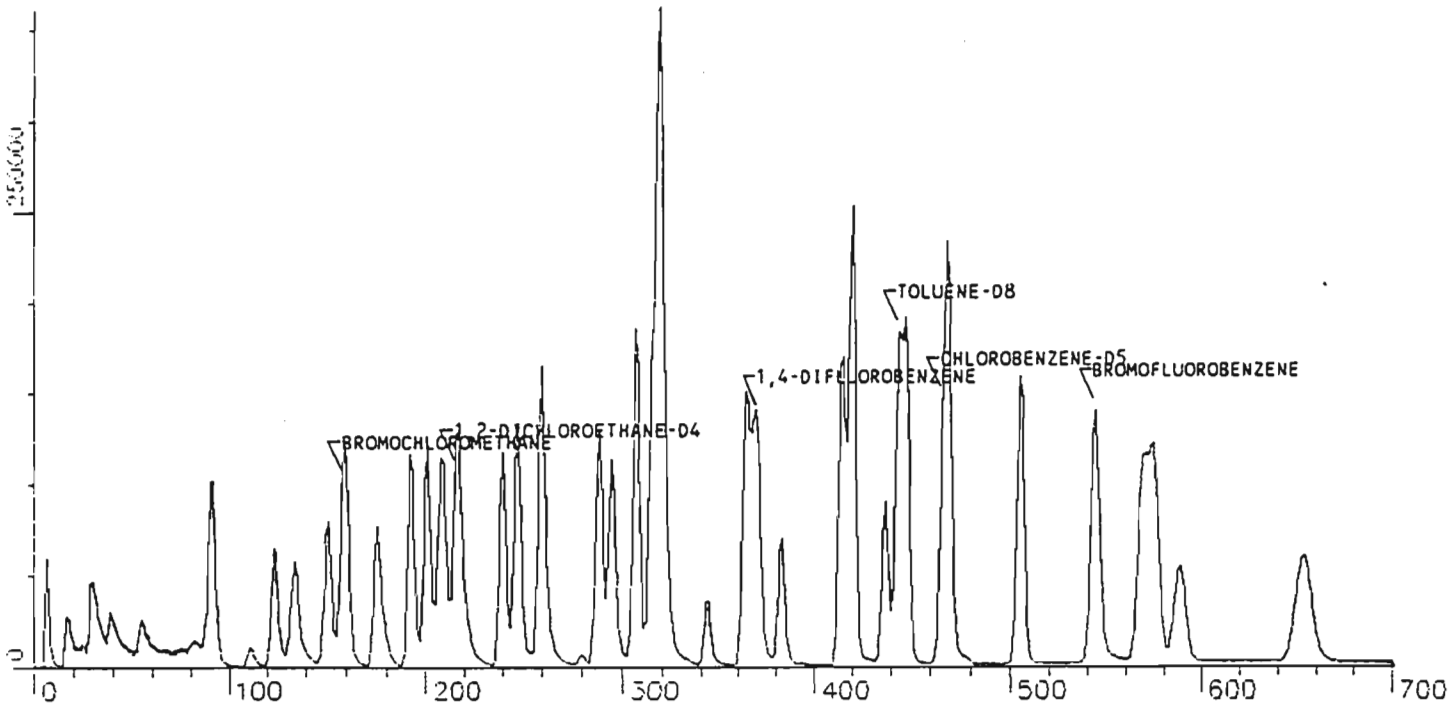
000230

48	UM	46	-545	547	546	-1	1	994	.	95	547	1	1
49	UM	47	-569	571	572	1	3	998	.	104	571	-1	1
50	UM	48	-575	577	576	-1	2	998	.	106	576	.	1
51	UM	49	-589	591	590	-1	1	991	.	106	591	1	1
52	UM	50	-653	654	655	1	1	986	.	146	656	1	1

CKT100HV 1

05/21/90 1501
OWAC -- CMP

Sample: VSTD100 CRV#CKT
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKT 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	30839.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	370	18:30	13	1.000	A BB	134618.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	466	23:18	36	1.000	A BB	110528.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	215	10:45	1	1.361	A BB	108129.	100.000 PPB	200.0	19	1,2-DICHLOROETHANE-D4
42	98	444	22:12	36	0.953	A BB	220717.	100.000 PPB	200.0	42	TOLUENE-D8
46	95	544	27:12	36	1.167	A BB	130003.	100.000 PPB	200.0	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	18:30	0	1.000	1.00	50.00	50.00	1.000	1.000	1.00	13	1,4-DIFLUOROBENZENE
36	23:18	0	1.000	1.00	50.00	50.00	1.000	1.000	1.00	36	CHLOROBENZENE-D5
19	10:45	0	1.361	1.00	100.00	100.00	1.753	1.753	1.00	19	1,2-DICHLOROETHANE-D4
42	22:12	0	0.953	1.00	100.00	100.00	0.998	0.998	1.00	42	TOLUENE-D8
46	27:12	0	1.167	1.00	100.00	100.00	0.588	0.588	1.00	46	BROMOFLUOROBENZENE

CKT100HV (05/21/90 15: 1) RFs loaded on OWAC 5/22/90 7:50:13

05/21/90 1501
OWAC -- CMP

Sample: VSTD100 CRV#CKT
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKT Submitted by: AQUTEC
Volume: 5.000 ml

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
2	50	17	0:51	1	0.108	A BV	55543.	110.000 PPB		2	CHLOROMETHANE
3	94	29	1:27	1	0.184	A BB	62815.	110.000 PPB		3	BROMOMETHANE
4	62	39	1:57	1	0.247	A BB	51684.	100.000 PPB		4	VINYL CHLORIDE
5	64	55	2:45	1	0.348	A BB	39356.	110.000 PPB		5	CHLOROETHANE
6	84	90	4:30	1	0.570	A BB	69130.	100.000 PPB		6	METHYLENE CHLORIDE
7	43	111	5:33	1	0.703	A BV	19850.	100.000 PPB		7	ACETONE
8	56	112	5:36	1	0.709	A BB	8703.	100.000 PPB		8	ACROLEIN
9	53	124	6:12	1	0.785	A BB	19762.	100.000 PPB		9	ACRYLONITRILE
10	76	123	6:09	1	0.778	A BB	179575.	100.000 PPB		10	CARBON DISULFIDE
11	101	134	6:42	1	0.848	A BV	109274.	100.000 PPB		11	TRICHLOROFLUOROMETHANE
12	96	151	7:33	1	0.956	A BB	57445.	100.000 PPB		12	1,1-DICHLOROETHENE
14	63	175	8:45	1	1.108	A BV	128087.	100.000 PPB		14	1,1-DICHLOROETHANE
15	71	179	8:57	1	1.133	A BB	7672.	100.000 PPB		15	TETRAHYDROFURAN
16	96	192	9:36	1	1.215	A BV	73360.	100.000 PPB		16	1,2-DICHLOROETHENE (TOTAL)
17	83	201	10:03	1	1.272	A BV	160385.	100.000 PPB		17	CHLOROFORM
18	62	217	10:51	1	1.373	A BB	110385.	100.000 PPB		18	1,2-DICHLOROETHANE
20	72	222	11:06	1	1.405	A BB	6998.	100.000 PPB		20	2-BUTANONE
21	101	208	10:24	13	0.562	A BB	116605.	100.000 PPB		21	FREON TF
22	97	240	12:00	13	0.649	A BB	128398.	100.000 PPB		22	1,1,1-TRICHLOROETHANE
23	117	248	12:24	13	0.670	A VB	135453.	100.000 PPB		23	CARBON TETRACHLORIDE
24	43	260	13:00	13	0.703	A BV	140222.	100.000 PPB		24	VINYL ACETATE
25	83	260	13:00	13	0.703	A BB	160394.	100.000 PPB		25	BROMODICHLOROMETHANE
26	63	289	14:27	13	0.781	A BB	91274.	100.000 PPB		26	1,2-DICHLOROPROPANE
27	75	295	14:45	13	0.797	A BB	128071.	100.000 PPB		27	CIS-1,3-DICHLOROPROPENE
28	130	307	15:21	13	0.830	A BB	112995.	100.000 PPB		28	TRICHLOROETHENE
29	129	315	15:45	13	0.851	A BB	159551.	100.000 PPB		29	DIBROMOCHLOROMETHANE
30	98	364	18:12	13	0.984	A BB	51194.	100.000 PPB		30	METHYLCYCLOHEXANE
31	97	318	15:54	13	0.859	A VB	93652.	100.000 PPB		31	1,1,2-TRICHLOROETHANE
32	78	318	15:54	13	0.859	A BV	232183.	100.000 PPB		32	BENZENE
33	75	320	16:00	13	0.865	A BB	114469.	100.000 PPB		33	TRANS-1,3-DICHLOROPROPENE
34	63	343	17:09	13	0.927	A BB	28851.	100.000 PPB		34	2-CHLOROETHYLVINYLETHER
35	173	368	18:24	13	0.995	A BB	107724.	100.000 PPB		35	BROMOFORM
37	43	383	19:09	36	0.822	A BB	117324.	100.000 PPB		37	4-METHYL-2-PENTANONE
38	43	415	20:45	36	0.891	A BB	100456.	100.000 PPB		38	2-HEXANONE
39	83	414	20:42	36	0.888	A BB	137702.	100.000 PPB		39	1,1,2,2-TETRACHLOROETHANE
40	164	420	21:00	36	0.901	A BB	105871.	100.000 PPB		40	TETRACHLOROETHENE
41	56	437	21:51	36	0.938	A BB	68248.	100.000 PPB		41	BUTYL ACETATE
43	92	447	22:21	36	0.959	A BB	151943.	100.000 PPB		43	TOLUENE
44	112	469	23:27	36	1.006	A BB	211449.	100.000 PPB		44	CHLOROBENZENE
45	106	505	25:15	36	1.084	A BB	81797.	100.000 PPB		45	ETHYLBENZENE
47	104	568	28:24	36	1.219	A BB	162174.	100.000 PPB		47	STYRENE
48	106	574	28:42	36	1.232	A BV	102585.	100.000 PPB		48	M-XYLENE
49	106	588	29:24	36	1.262	A VB	48657.	60.000 PPB		49	O- & P-XYLENE
50	146	652	32:36	36	1.399	A BB	119751.	100.000 PPB		50	O-DICHLOROBENZENE
51	55	160	8:00	1	1.013	A BB	47286.	100.000 PPB		51	CYCLOPENTANE
52	106	574	28:42	36	1.232	A BV	102585.	100.000 PPB		52	XYLENE (TOTAL)
53	45	140	7:00	1	0.886	A BB	2156.	100.000 PPB		53	2-PROPANOL

Sample: VSTD100 CRV#CKT
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKT Submitted by: AQUTEC
Volume: 5.000 ml

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	0:51	0	0.108	1.00	110.00	110.00	0.819	0.819	1.00	2	CHLOROMETHANE
3	1:27	0	0.184	1.00	110.00	110.00	0.926	0.926	1.00	3	BROMOMETHANE
4	1:57	0	0.247	1.00	100.00	100.00	0.838	0.838	1.00	4	VINYL CHLORIDE
5	2:45	0	0.348	1.00	110.00	110.00	0.580	0.580	1.00	5	CHLOROETHANE
6	4:30	0	0.570	1.00	100.00	100.00	1.121	1.121	1.00	6	METHYLENE CHLORIDE
7	5:33	0	0.703	1.00	100.00	100.00	0.322	0.322	1.00	7	ACETONE
8	5:36	0	0.709	1.00	100.00	100.00	0.141	0.141	1.00	8	ACROLEIN
9	6:12	0	0.785	1.00	100.00	100.00	0.320	0.320	1.00	9	ACRYLONITRILE
10	6:09	0	0.778	1.00	100.00	100.00	2.911	2.911	1.00	10	CARBON DISULFIDE
11	6:42	0	0.848	1.00	100.00	100.00	1.772	1.772	1.00	11	TRICHLOROFLUOROMETHANE
12	7:33	0	0.956	1.00	100.00	100.00	0.931	0.931	1.00	12	1,1-DICHLOROETHENE
14	8:45	0	1.108	1.00	100.00	100.00	2.077	2.077	1.00	14	1,1-DICHLOROETHANE
15	8:57	0	1.133	1.00	100.00	100.00	0.124	0.124	1.00	15	TETRAHYDROFURAN
16	9:36	0	1.215	1.00	100.00	100.00	1.189	1.189	1.00	16	1,2-DICHLOROETHENE (TOTAL)
17	10:03	0	1.272	1.00	100.00	100.00	2.600	2.600	1.00	17	CHLOROFORM
18	10:51	0	1.373	1.00	100.00	100.00	1.790	1.790	1.00	18	1,2-DICHLOROETHANE
20	11:06	0	1.405	1.00	100.00	100.00	0.113	0.113	1.00	20	2-BUTANONE
21	10:24	0	0.562	1.00	100.00	100.00	0.433	0.433	1.00	21	FREON TF
22	12:00	0	0.649	1.00	100.00	100.00	0.477	0.477	1.00	22	1,1,1-TRICHLOROETHANE
23	12:24	0	0.670	1.00	100.00	100.00	0.503	0.503	1.00	23	CARBON TETRACHLORIDE
24	13:00	0	0.703	1.00	100.00	100.00	0.521	0.521	1.00	24	VINYL ACETATE
25	13:00	0	0.703	1.00	100.00	100.00	0.596	0.596	1.00	25	BROMODICHLOROMETHANE
26	14:27	0	0.781	1.00	100.00	100.00	0.339	0.339	1.00	26	1,2-DICHLOROPROPANE
27	14:45	0	0.797	1.00	100.00	100.00	0.476	0.476	1.00	27	CIS-1,3-DICHLOROPROPENE
28	15:21	0	0.830	1.00	100.00	100.00	0.420	0.420	1.00	28	TRICHLOROETHENE
29	15:45	0	0.851	1.00	100.00	100.00	0.593	0.593	1.00	29	DIBROMOCHLOROMETHANE
30	18:12	0	0.984	1.00	100.00	100.00	0.190	0.190	1.00	30	METHYLCYCLOHEXANE
31	15:54	0	0.859	1.00	100.00	100.00	0.348	0.348	1.00	31	1,1,2-TRICHLOROETHANE
32	15:54	0	0.859	1.00	100.00	100.00	0.862	0.862	1.00	32	BENZENE
33	16:00	0	0.865	1.00	100.00	100.00	0.425	0.425	1.00	33	TRANS-1,3-DICHLOROPROPENE
34	17:09	0	0.927	1.00	100.00	100.00	0.107	0.107	1.00	34	2-CHLOROETHYLVINYLETHER
35	18:24	0	0.995	1.00	100.00	100.00	0.400	0.400	1.00	35	BROMOFORM
37	19:09	0	0.822	1.00	100.00	100.00	0.531	0.531	1.00	37	4-METHYL-2-PENTANONE
38	20:45	0	0.891	1.00	100.00	100.00	0.454	0.454	1.00	38	2-HEXANONE
39	20:42	0	0.888	1.00	100.00	100.00	0.623	0.623	1.00	39	1,1,2,2-TETRACHLOROETHANE
40	21:00	0	0.901	1.00	100.00	100.00	0.479	0.479	1.00	40	TETRACHLOROETHENE
41	21:51	0	0.938	1.00	100.00	100.00	0.309	0.309	1.00	41	BUTYL ACETATE
43	22:21	0	0.959	1.00	100.00	100.00	0.687	0.687	1.00	43	TOLUENE
44	23:27	0	1.006	1.00	100.00	100.00	0.957	0.957	1.00	44	CHLOROBENZENE
45	25:15	0	1.084	1.00	100.00	100.00	0.370	0.370	1.00	45	ETHYLBENZENE
47	28:24	0	1.219	1.00	100.00	100.00	0.734	0.734	1.00	47	STYRENE
48	28:42	0	1.232	1.00	100.00	100.00	0.464	0.464	1.00	48	M-XYLENE
49	29:24	0	1.262	1.00	60.00	60.00	0.367	0.367	1.00	49	O- & P-XYLENE
50	32:36	0	1.399	1.00	100.00	100.00	0.542	0.542	1.00	50	O-DICHLOROBENZENE
51	8:00	0	1.013	1.00	100.00	100.00	0.767	0.767	1.00	51	CYCLOPENTANE
52	28:42	0	1.232	1.00	100.00	100.00	0.464	0.464	1.00	52	XYLENE (TOTAL)
53	7:00	0	0.886	1.00	100.00	100.00	0.035	0.035	1.00	53	2-PROPANOL

PROCEDURE: TCA DIAGNOSTIC REPORT 5/21/90 15:48:35
DATA FILE: CKT10CHV
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	11	144	88	UMRET1/UMUNK1
2	2	1	0	14	13	12	72	UMRET2/UMUNK2
2	2	1	0	13	13	6	66	UMRET2/UMUNK3
2	2	1	0	9	9	1	43	UMRET3/UMUNK4
1	1	1	0	8	8	4	50	UMRET4/UMUNK5

52 COMPOUNDS PROCESSED, 49 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	158	158	.	1	985	.	128	158	.	1
2	UM	2	-18	17	17	.	2	988	.	50	17	.	1
3	UM	3	-30	29	29	.	1	967	.	94	29	.	1
4	UM	4	-40	39	39	.	3	1000	.	62	39	.	1
5	UM	5	-55	54	55	1	4	997	.	64	55	.	1
6	UM	6	-89	89	90	1	3	987	.	84	90	.	1
7	UM	7	-113	113	111	-2	2	994	.	43	111	.	1
8	UM	8	-112	112	112	.	1	999	.	56	112	.	1
9	UM	9	-125	125	.	.	.	.	.	53	124	.	1
10	UM	10	-122	122	123	1	1	998	.	76	123	.	1
11	UM	11	-134	134	134	.	1	992	.	101	134	.	1
12	UM	12	-151	151	151	.	1	992	.	96	151	.	1
13	UM	53	-144	144	.	.	.	.	.	45	.	.	.
14	UM	13	-371	370	370	.	1	997	.	114	370	.	1
15	UM	51	-160	159	160	1	1	994	.	55	160	.	1
16	UM	14	-176	175	175	.	1	997	.	63	175	.	1
17	UM	15	-180	179	.	.	.	.	.	71	179	.	1
18	UM	16	-193	192	192	.	1	991	.	96	192	.	1
19	UM	17	-202	201	201	.	2	994	.	83	201	.	1
20	UM	18	-219	218	217	-1	1	974	.	62	217	.	1
21	UM	19	-217	216	216	.	1	996	.	65	215	-1	1
22	UM	20	-224	223	222	-1	3	998	.	72	222	.	1
23	UM	21	-210	209	208	-1	1	1000	.	101	208	.	1
24	UM	22	-242	241	240	-1	1	995	.	97	240	.	1
25	UM	23	-250	249	248	-1	2	995	.	117	248	.	1
26	UM	24	-262	260	260	.	1	995	.	43	260	.	1
27	UM	25	-262	261	260	-1	1	979	.	83	260	.	1
28	UM	26	-291	290	289	-1	1	972	.	63	289	.	1
29	UM	27	-297	296	295	-1	3	981	.	75	295	.	1
30	UM	28	-309	308	307	-1	1	995	.	130	307	.	1
31	UM	29	-316	315	315	.	1	994	.	129	315	.	1
32	UM	30	-365	363	364	1	1	999	.	98	364	.	1
33	UM	31	-320	319	319	.	1	993	.	97	318	-1	1
34	UM	32	-320	319	318	-1	1	992	.	78	318	.	1
35	UM	33	-322	321	320	-1	2	989	.	75	320	.	1
36	UM	34	-345	343	343	.	1	989	.	63	343	.	1
37	UM	35	-369	367	368	1	1	984	.	173	368	.	1
38	UM	36	-467	466	466	.	1	982	.	117	466	.	1
39	UM	37	-384	383	383	.	1	984	.	43	383	.	1
40	UM	38	-416	415	415	.	1	951	.	43	415	.	1
41	UM	39	-415	414	414	.	1	998	.	83	414	.	1
42	UM	40	-421	420	420	.	1	981	.	164	420	.	1
43	UM	41	-438	437	437	.	1	992	.	56	437	.	1
44	UM	42	-444	443	444	1	1	990	.	88	444	.	1

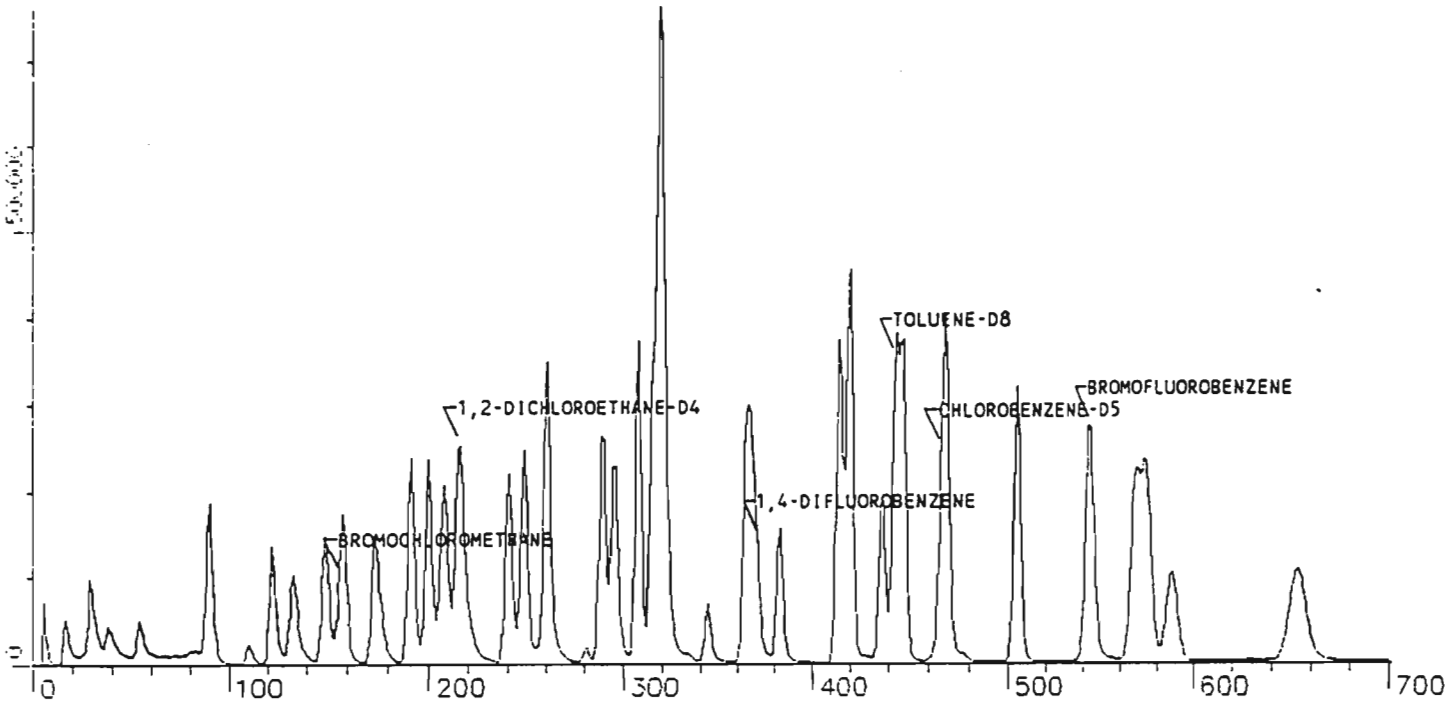
000235

48	UM	46	-545	544	544	.	1	997	.	95	544	.	1
49	UM	47	-569	568	569	1	2	998	.	104	568	-1	1
50	UM	48	-575	574	574	.	1	995	.	106	574	.	1
51	UM	49	-589	588	588	.	2	989	.	106	588	.	1
52	UM	50	-653	652	652	.	1	986	.	146	652	.	1

CKT200HI2V 1

05/21/90 1630
OWAC -- CMS

Sample: VSTD200 CRV#CKT
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKT Submitted by: AQUTEC
Volume: 5.000 ml



No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
1	128	156	7:48	1	1.000	A BB	27062.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	371	18:33	13	1.000	A BV	117647.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	466	23:18	36	1.000	A BB	100168.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	215	10:45	1	1.378	A BV	219705.	200.000 PPB	400.0	19	1,2-DICHLOROETHANE-D4
42	98	443	22:09	36	0.951	A BV	444114.	200.000 PPB	400.0	42	TOLUENE-D8
46	95	544	27:12	36	1.167	A BB	261115.	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	7:48	0	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	23:18	0	1.000	1.00	50.00	50.00	1.000	1.000	1.00	36	CHLOROBENZENE-D5
19	10:45	0	1.378	1.00	200.00	200.00	2.030	2.030	1.00	19	1,2-DICHLOROETHANE-D4
42	22:09	0	0.951	1.00	200.00	200.00	1.108	1.108	1.00	42	TOLUENE-D8
46	27:12	0	1.167	1.00	200.00	200.00	0.652	0.652	1.00	46	BROMOFLUOROBENZENE

CKT200HI2V (05/21/90 16:30) RFs loaded on OWAC 5/21/90 17:22:50

CKT200HI2V 2

05/21/90 1630
OWAC -- CMS

Sample: VSTD200 CRV#CKT
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKT Submitted by: AQUTEC
Volume: 5.000 ml

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
2	50	17	0:51	1	0.109	A BV	91227.	220.000 PPB		2	CHLOROMETHANE
3	94	29	1:27	1	0.186	A BB	107983.	220.000 PPB		3	BROMOMETHANE
4	62	38	1:54	1	0.244	A BV	82108.	200.000 PPB		4	VINYL CHLORIDE
5	64	54	2:42	1	0.346	A BB	69092.	220.000 PPB		5	CHLOROETHANE
6	84	90	4:30	1	0.577	A BB	127157.	200.000 PPB		6	METHYLENE CHLORIDE
7	43	110	5:30	1	0.705	A BV	34417.	200.000 PPB		7	ACETONE
8	56	110	5:30	1	0.705	A BB	18430.	200.000 PPB		8	ACROLEIN
9	53	123	6:09	1	0.788	A BB	43155.	200.000 PPB		9	ACRYLONITRILE
10	76	122	6:06	1	0.782	A BB	336460.	200.000 PPB		10	CARBON DISULFIDE
11	101	133	6:39	1	0.853	A BB	188520.	200.000 PPB		11	TRICHLOROFLUOROMETHANE
12	96	149	7:27	1	0.955	A BB	102295.	200.000 PPB		12	1,1-DICHLOROETHENE
14	63	174	8:42	1	1.115	A BV	250259.	200.000 PPB		14	1,1-DICHLOROETHANE
15	71	177	8:51	1	1.135	A BB	18554.	200.000 PPB		15	TETRAHYDROFURAN
16	96	191	9:33	1	1.224	A BB	137406.	200.000 PPB		16	1,2-DICHLOROETHENE (TOTAL)
17	83	200	10:00	1	1.282	A BB	314554.	200.000 PPB		17	CHLOROFORM
18	62	217	10:51	1	1.391	A VB	221373.	200.000 PPB		18	1,2-DICHLOROETHANE
20	72	222	11:06	1	1.423	A BB	13398.	200.000 PPB		20	2-BUTANONE
21	101	208	10:24	13	0.561	A BB	201005.	200.000 PPB		21	FREON TF
22	97	241	12:03	13	0.650	A BV	244794.	200.000 PPB		22	1,1,1-TRICHLOROETHANE
23	117	249	12:27	13	0.671	A VB	254101.	200.000 PPB		23	CARBON TETRACHLORIDE
24	43	260	13:00	13	0.701	A BB	306693.	200.000 PPB		24	VINYL ACETATE
25	83	261	13:03	13	0.704	A BB	329531.	200.000 PPB		25	BROMODICHLOROMETHANE
26	63	289	14:27	13	0.779	A BV	180458.	200.000 PPB		26	1,2-DICHLOROPROPANE
27	75	296	14:48	13	0.798	A BB	264455.	200.000 PPB		27	CIS-1,3-DICHLOROPROPENE
28	130	308	15:24	13	0.830	A BB	217732.	200.000 PPB		28	TRICHLOROETHENE
29	129	315	15:45	13	0.849	A BB	324922.	200.000 PPB		29	DIBROMOCHLOROMETHANE
30	98	364	18:12	13	0.981	A BB	89569.	200.000 PPB		30	METHYLCYCLOHEXANE
31	97	319	15:57	13	0.860	A VB	195189.	200.000 PPB		31	1,1,2-TRICHLOROETHANE
32	78	319	15:57	13	0.860	A BB	468405.	200.000 PPB		32	BENZENE
33	75	321	16:03	13	0.865	A BB	247275.	200.000 PPB		33	TRANS-1,3-DICHLOROPROPENE
34	63	344	17:12	13	0.927	A BB	53184.	200.000 PPB		34	2-CHLOROETHYLVINYLETHER
35	173	368	18:24	13	0.992	A BB	225491.	200.000 PPB		35	BROMOFORM
37	43	383	19:09	36	0.822	A BB	252365.	200.000 PPB		37	4-METHYL-2-PENTANONE
38	43	414	20:42	36	0.888	A BB	208609.	200.000 PPB		38	2-HEXANONE
39	83	414	20:42	36	0.888	A BV	288525.	200.000 PPB		39	1,1,2,2-TETRACHLOROETHANE
40	164	419	20:57	36	0.899	A BB	186154.	200.000 PPB		40	TETRACHLOROETHENE
41	56	437	21:51	36	0.938	A BB	141482.	200.000 PPB		41	BUTYL ACETATE
43	92	447	22:21	36	0.959	A BB	291845.	200.000 PPB		43	TOLUENE
44	112	468	23:24	36	1.004	A BB	409335.	200.000 PPB		44	CHLOROBENZENE
45	106	505	25:15	36	1.084	A BB	159391.	200.000 PPB		45	ETHYLBENZENE
47	104	568	28:24	36	1.219	A BB	321360.	200.000 PPB		47	STYRENE
48	106	574	28:42	36	1.232	A BV	196908.	200.000 PPB		48	M-XYLENE
49	106	587	29:21	36	1.260	A VB	96179.	120.000 PPB		49	O- & P-XYLENE
50	146	653	32:39	36	1.401	A BB	216602.	200.000 PPB		50	O-DICHLOROBENZENE
51	55	158	7:54	1	1.013	A BB	76929.	200.000 PPB		51	CYCLOPENTANE
52	106	574	28:42	36	1.232	A BV	196908.	200.000 PPB		52	XYLENE (TOTAL)
53	45	139	6:57	1	0.891	A BB	5229.	200.000 PPB		53	2-PROPANOL

CKT200HI2V 3

05/21/90 1630
OWAC -- CMS

Sample: VSTD200 CRV#CKT
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKT Submitted by: AQUTEC
Volume: 5.000 ml

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	0:51	0	0.109	1.00	220.00	220.00	0.766	0.766	1.00	2	CHLOROMETHANE
3	1:27	0	0.186	1.00	220.00	220.00	0.907	0.907	1.00	3	BROMOMETHANE
4	1:54	0	0.244	1.00	200.00	200.00	0.759	0.759	1.00	4	VINYL CHLORIDE
5	2:42	0	0.346	1.00	220.00	220.00	0.580	0.580	1.00	5	CHLOROETHANE
6	4:30	0	0.577	1.00	200.00	200.00	1.175	1.175	1.00	6	METHYLENE CHLORIDE
7	5:30	0	0.705	1.00	200.00	200.00	0.318	0.318	1.00	7	ACETONE
8	5:30	0	0.705	1.00	200.00	200.00	0.170	0.170	1.00	8	ACROLEIN
9	6:09	0	0.788	1.00	200.00	200.00	0.399	0.399	1.00	9	ACRYLONITRILE
10	6:06	0	0.782	1.00	200.00	200.00	3.108	3.108	1.00	10	CARBON DISULFIDE
11	6:39	0	0.853	1.00	200.00	200.00	1.742	1.742	1.00	11	TRICHLOROFLUOROMETHANE
12	7:27	0	0.955	1.00	200.00	200.00	0.945	0.945	1.00	12	1,1-DICHLOROETHENE
14	8:42	0	1.115	1.00	200.00	200.00	2.312	2.312	1.00	14	1,1-DICHLOROETHANE
15	8:51	0	1.135	1.00	200.00	200.00	0.171	0.171	1.00	15	TETRAHYDROFURAN
16	9:33	0	1.224	1.00	200.00	200.00	1.269	1.269	1.00	16	1,2-DICHLOROETHENE (TOTAL)
17	10:00	0	1.282	1.00	200.00	200.00	2.906	2.906	1.00	17	CHLOROFORM
18	10:51	0	1.391	1.00	200.00	200.00	2.045	2.045	1.00	18	1,2-DICHLOROETHANE
20	11:06	0	1.423	1.00	200.00	200.00	0.124	0.124	1.00	20	2-BUTANONE
21	10:24	0	0.561	1.00	200.00	200.00	0.427	0.427	1.00	21	FREON TF
22	12:03	0	0.650	1.00	200.00	200.00	0.520	0.520	1.00	22	1,1,1-TRICHLOROETHANE
23	12:27	0	0.671	1.00	200.00	200.00	0.540	0.540	1.00	23	CARBON TETRACHLORIDE
24	13:00	0	0.701	1.00	200.00	200.00	0.652	0.652	1.00	24	VINYL ACETATE
25	13:03	0	0.704	1.00	200.00	200.00	0.700	0.700	1.00	25	BROMODICHLOROMETHANE
26	14:27	0	0.779	1.00	200.00	200.00	0.383	0.383	1.00	26	1,2-DICHLOROPROPANE
27	14:48	0	0.798	1.00	200.00	200.00	0.562	0.562	1.00	27	CIS-1,3-DICHLOROPROPENE
28	15:24	0	0.830	1.00	200.00	200.00	0.463	0.463	1.00	28	TRICHLOROETHENE
29	15:45	0	0.849	1.00	200.00	200.00	0.690	0.690	1.00	29	DIBROMOCHLOROMETHANE
30	18:12	0	0.981	1.00	200.00	200.00	0.190	0.190	1.00	30	METHYLCYCLOHEXANE
31	15:57	0	0.860	1.00	200.00	200.00	0.415	0.415	1.00	31	1,1,2-TRICHLOROETHANE
32	15:57	0	0.860	1.00	200.00	200.00	0.995	0.995	1.00	32	BENZENE
33	16:03	0	0.865	1.00	200.00	200.00	0.525	0.525	1.00	33	TRANS-1,3-DICHLOROPROPENE
34	17:12	0	0.927	1.00	200.00	200.00	0.113	0.113	1.00	34	2-CHLOROETHYLVINYLETHER
35	18:24	0	0.992	1.00	200.00	200.00	0.479	0.479	1.00	35	BROMOFORM
37	19:09	0	0.822	1.00	200.00	200.00	0.630	0.630	1.00	37	4-METHYL-2-PENTANONE
38	20:42	0	0.888	1.00	200.00	200.00	0.521	0.521	1.00	38	2-HEXANONE
39	20:42	0	0.888	1.00	200.00	200.00	0.720	0.720	1.00	39	1,1,2,2-TETRACHLOROETHANE
40	20:57	0	0.899	1.00	200.00	200.00	0.465	0.465	1.00	40	TETRACHLOROETHENE
41	21:51	0	0.938	1.00	200.00	200.00	0.353	0.353	1.00	41	BUTYL ACETATE
43	22:21	0	0.959	1.00	200.00	200.00	0.728	0.728	1.00	43	TOLUENE
44	23:24	0	1.004	1.00	200.00	200.00	1.022	1.022	1.00	44	CHLOROBENZENE
45	25:15	0	1.084	1.00	200.00	200.00	0.398	0.398	1.00	45	ETHYLBENZENE
47	28:24	0	1.219	1.00	200.00	200.00	0.802	0.802	1.00	47	STYRENE
48	28:42	0	1.232	1.00	200.00	200.00	0.491	0.491	1.00	48	M-XYLENE
49	29:21	0	1.260	1.00	120.00	120.00	0.400	0.400	1.00	49	O- & P-XYLENE
50	32:39	0	1.401	1.00	200.00	200.00	0.541	0.541	1.00	50	O-DICHLOROBENZENE
51	7:54	0	1.013	1.00	200.00	200.00	0.711	0.711	1.00	51	CYCLOPENTANE
52	28:42	0	1.232	1.00	200.00	200.00	0.491	0.491	1.00	52	XYLENE (TOTAL)
53	6:57	0	0.891	1.00	200.00	200.00	0.048	0.048	1.00	53	2-PROPANOL

PROCEDURE: TCA DIAGNOSTIC REPORT 5/21/90 17:07:32
DATA FILE: CKT200HI2V
REFERENCE: JTAB11
NAME LIST: UM INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: UMRET1

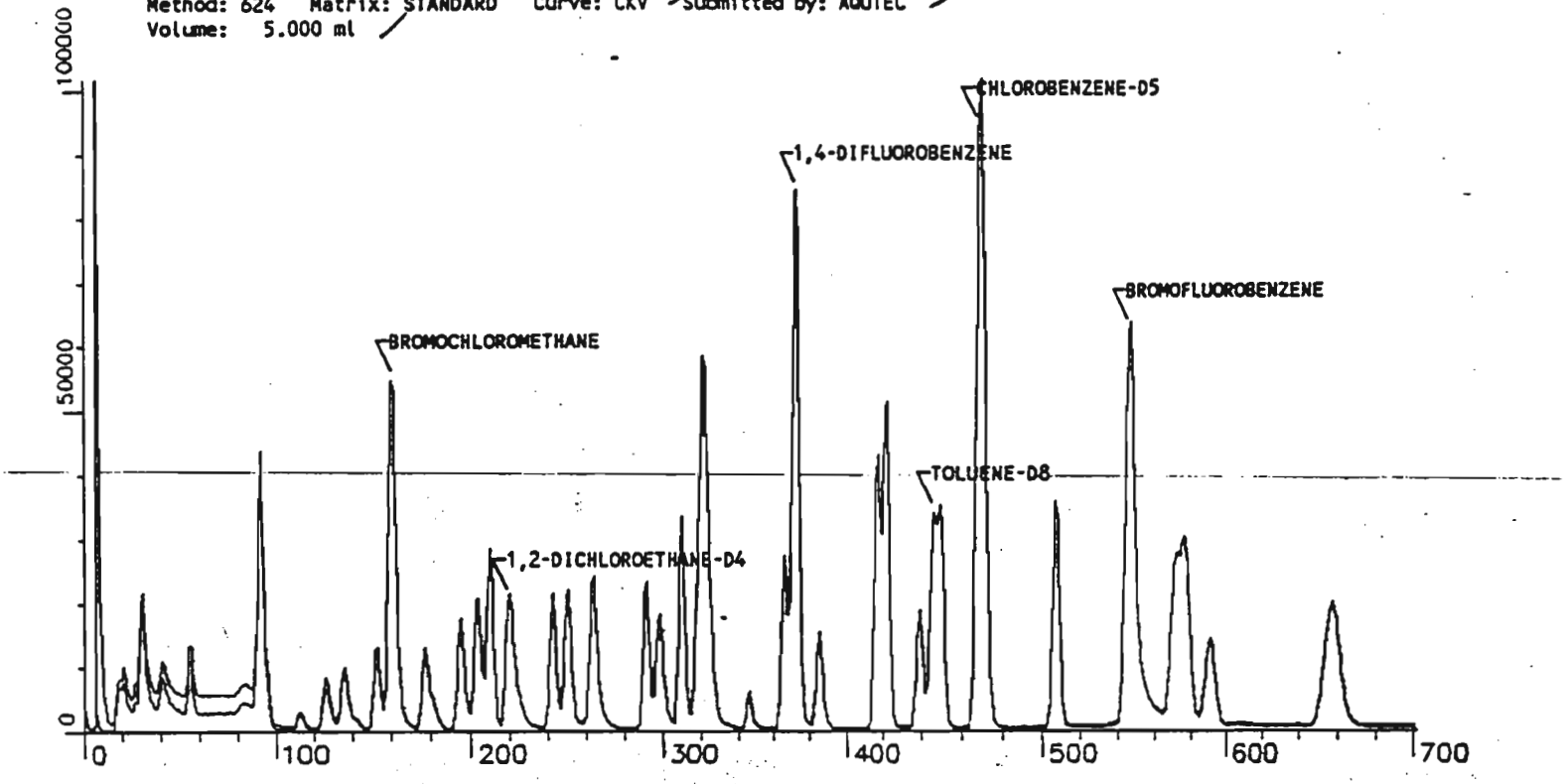
STANDARDS PROC	STANDARDS USED	STANDARDS POSS	STANDARDS RMS	PLUS UNKNOWNS PROC	PLUS UNKNOWNS USED	PLUS UNKNOWNS POSS	PLUS UNKNOWNS RMS	LIST NAMES STANDARD/UNKNOWN
1	1	1	0	13	10	12	120	UMRET1/UMUNK1
2	2	1	0	14	13	48	51	UMRET2/UMUNK2
2	2	1	0	13	13	4	41	UMRET2/UMUNK3
2	2	1	0	9	9	8	61	UMRET3/UMUNK4
1	1	1	0	8	8	2	51	UMRET4/UMUNK5

52 COMPOUNDS PROCESSED, 48 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	979	.	128	156	-1	1
2	UM	2	-18	17	17	.	3	990	.	50	17	.	1
3	UM	3	-30	29	.	.	.	.	.	94	29	.	1
4	UM	4	-40	39	38	-1	2	997	.	62	38	.	1
5	UM	5	-55	54	54	.	1	992	.	64	54	.	1
6	UM	6	-89	88	90	2	1	990	.	84	90	.	1
7	UM	7	-113	112	110	-2	1	975	.	43	110	.	1
8	UM	8	-112	111	110	-1	1	1000	.	56	110	.	1
9	UM	9	-125	124	.	.	.	.	.	53	123	.	1
10	UM	10	-122	121	122	1	2	998	.	76	122	.	1
11	UM	11	-134	133	133	.	1	995	.	101	133	.	1
12	UM	12	-151	150	149	-1	1	991	.	96	149	.	1
13	UM	53	-144	143	.	.	.	.	.	45	.	.	.
14	UM	13	-371	371	371	.	1	995	.	114	371	.	1
15	UM	51	-160	158	158	.	1	994	.	55	158	.	1
16	UM	14	-176	174	174	.	1	999	.	63	174	.	1
17	UM	15	-180	178	.	.	.	.	.	71	177	.	1
18	UM	16	-193	191	191	.	2	994	.	96	191	.	1
19	UM	17	-202	200	200	.	2	995	.	83	200	.	1
20	UM	18	-219	217	217	.	2	971	.	62	217	.	1
21	UM	19	-217	215	215	.	1	999	.	65	215	.	1
22	UM	20	-224	222	222	.	3	998	.	72	222	.	1
23	UM	21	-210	208	208	.	1	998	.	101	208	.	1
24	UM	22	-242	241	241	.	1	991	.	97	241	.	1
25	UM	23	-250	249	249	.	2	996	.	117	249	.	1
26	UM	24	-262	261	260	-1	1	997	.	43	260	.	1
27	UM	25	-262	261	261	.	1	981	.	83	261	.	1
28	UM	26	-291	290	289	-1	1	974	.	63	289	.	1
29	UM	27	-297	296	296	.	2	970	.	75	296	.	1
30	UM	28	-309	308	308	.	1	998	.	130	308	.	1
31	UM	29	-316	315	315	.	1	994	.	129	315	.	1
32	UM	30	-365	364	364	.	1	995	.	98	364	.	1
33	UM	31	-320	319	319	.	1	993	.	97	319	.	1
34	UM	32	-320	319	319	.	1	993	.	78	319	.	1
35	UM	33	-322	321	321	.	2	995	.	75	321	.	1
36	UM	34	-345	344	344	.	1	990	.	63	344	.	1
37	UM	35	-369	368	368	.	1	981	.	173	368	.	1
38	UM	36	-467	466	466	.	1	983	.	117	466	.	1
39	UM	37	-384	383	383	.	2	991	.	43	383	.	1
40	UM	38	-416	415	414	-1	2	981	.	43	414	.	1
41	UM	39	-415	414	414	.	1	998	.	83	414	.	1
42	UM	40	-421	420	419	-1	1	977	.	164	419	.	1
43	UM	41	-438	437	437	.	1	993	.	56	437	.	1
44	UM	42	-444	443	443	.	2	989	.	98	443	.	1
45	UM	43	-448	447	447	.	1	990	.	92	447	.	1
46	UM	44	-469	468	468	.	1	996	.	112	468	.	1
47	UM	45	-506	505	505	.	1	994	.	106	505	.	1
48	UM	46	-545	544	543	-1	1	997	.	95	544	1	1
49	UM	47	-569	568	568	.	1	998	.	104	568	.	1
50	UM	48	-575	574	574	.	1	997	.	106	574	.	1
51	UM	49	-589	588	588	.	2	991	.	106	587	-1	1
52	UM	50	-653	652	653	1	1	991	.	146	653	.	1

CKV020HV 1
05/23/90 2238
OWAC -- CMS

Sample: VSTD020 CRV#CKV
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKV Submitted by: AQUTEC
Volume: 5.000 ml



No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Rec	No	Name
1	128	160	8:00	1	1.000	A BB	25427.	50.000	PPB		1	BROMOCHLOROMETHANE
13	114	372	18:36	13	1.000	A BB	117491.	50.000	PPB		13	1,4-DIFLUOROBENZENE
36	117	468	23:24	36	1.000	A BB	93806.	50.000	PPB		36	CHLOROBENZENE-D5
19	65	219	10:57	1	1.369	A BB	22062.	20.000	PPB	40.0	19	1,2-DICHLOROETHANE-D4
42	98	446	22:18	36	0.953	A BB	42335.	20.000	PPB	40.0	42	TOLUENE-D8
46	95	546	27:18	36	1.167	A BB	37721.	20.000	PPB	40.0	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	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	10:57	0	1.369	1.00	20.00	20.00	2.169	2.169	1.00	19	1,2-DICHLOROETHANE-D4
42	22:18	0	0.953	1.00	20.00	20.00	1.128	1.128	1.00	42	TOLUENE-D8
46	27:18	0	1.167	1.00	20.00	20.00	1.005	1.005	1.00	46	BROMOFLUOROBENZENE

CKV020HV (05/23/90 22:38) RFs loaded on OWAC 5/23/90 23:31:34

CKV020HV 2
05/23/90 2238
OWAC -- CMS

Sample: VSTD020 CRV#CKV
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKV 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	0.112	A BB	12724.	22.000 PPB		2	CHLOROMETHANE
3	94	31	1:33	1	0.194	A BB	17888.	22.000 PPB		3	BROMOMETHANE
4	62	41	2:03	1	0.256	A BB	13112.	20.000 PPB		4	VINYL CHLORIDE
5	64	55	2:45	1	0.344	A BB	9471.	22.000 PPB		5	CHLOROETHANE
6	84	92	4:36	1	0.575	A BB	23750.	20.000 PPB		6	METHYLENE CHLORIDE
7	43	112	5:36	1	0.700	A BB	6949.	20.000 PPB		7	ACETONE
8	56	114	5:42	1	0.713	A BB	668.	20.000 PPB		8	ACROLEIN
9	53	128	6:24	1	0.800	A BB	2923.	20.000 PPB		9	ACRYLONITRILE
10	76	126	6:18	1	0.788	A BB	23173.	20.000 PPB		10	CARBON DISULFIDE
11	101	136	6:48	1	0.850	A BB	19296.	20.000 PPB		11	TRICHLOROFLUOROMETHANE
12	96	152	7:36	1	0.950	A BB	8558.	20.000 PPB		12	1,1-DICHLOROETHENE
14	63	177	8:51	1	1.106	A BB	23817.	20.000 PPB		14	1,1-DICHLOROETHANE
15	71	181	9:03	1	1.131	A BB	1199.	20.000 PPB		15	TETRAHYDROFURAN
16	96	195	9:45	1	1.219	A BB	11023.	20.000 PPB		16	1,2-DICHLOROETHENE (TOTAL)
17	83	203	10:09	1	1.269	A BB	29210.	20.000 PPB		17	CHLOROFORM
18	62	221	11:03	1	1.381	A BB	23916.	20.000 PPB		18	1,2-DICHLOROETHANE
20	72	225	11:15	1	1.406	A BB	883.	20.000 PPB		20	2-BUTANONE
21	101	210	10:30	13	0.565	A BB	20230.	20.000 PPB		21	FREON TF
22	97	243	12:09	13	0.653	A BB	22919.	20.000 PPB		22	1,1,1-TRICHLOROETHANE
23	117	251	12:33	13	0.675	A VB	22716.	20.000 PPB		23	CARBON TETRACHLORIDE
24	43	263	13:09	13	0.707	A BB	25779.	20.000 PPB		24	VINYL ACETATE
25	83	264	13:12	13	0.710	A BB	24665.	20.000 PPB		25	BROMODICHLOROMETHANE
26	63	292	14:36	13	0.785	A BB	16735.	20.000 PPB		26	1,2-DICHLOROPROPANE
27	75	299	14:57	13	0.804	A BB	19309.	20.000 PPB		27	CIS-1,3-DICHLOROPROPENE
28	130	310	15:30	13	0.833	A BB	19326.	20.000 PPB		28	TRICHLOROETHENE
29	129	318	15:54	13	0.855	A BB	22793.	20.000 PPB		29	DIBROMOCHLOROMETHANE
30	98	366	18:18	13	0.984	A BB	6390.	20.000 PPB		30	METHYLCYCLOHEXANE
31	97	322	16:06	13	0.866	A VB	15907.	20.000 PPB		31	1,1,2-TRICHLOROETHANE
32	78	321	16:03	13	0.863	A BB	38069.	20.000 PPB		32	BENZENE
33	75	324	16:12	13	0.871	A BB	17832.	20.000 PPB		33	TRANS-1,3-DICHLOROPROPENE
34	63	346	17:18	13	0.930	A BB	5153.	20.000 PPB		34	2-CHLOROETHYLVINYLETHER
35	173	370	18:30	13	0.995	A BB	18409.	20.000 PPB		35	BROMOFORM
37	43	385	19:15	36	0.823	A BB	29770.	20.000 PPB		37	4-METHYL-2-PENTANONE
38	43	417	20:51	36	0.891	A BB	26186.	20.000 PPB		38	2-HEXANONE
39	83	417	20:51	36	0.891	A BB	33295.	20.000 PPB		39	1,1,2,2-TETRACHLOROETHANE
40	164	421	21:03	36	0.900	A BB	21319.	20.000 PPB		40	TETRACHLOROETHENE
41	56	439	21:57	36	0.938	A BB	11323.	20.000 PPB		41	BUTYL ACETATE
43	92	449	22:27	36	0.959	A BB	25625.	20.000 PPB		43	TOLUENE
44	112	471	23:33	36	1.006	A BB	40940.	20.000 PPB		44	CHLOROBENZENE
45	106	507	25:21	36	1.083	A BB	17265.	20.000 PPB		45	ETHYLBENZENE
47	104	572	28:36	36	1.222	A BB	36297.	20.000 PPB		47	STYRENE
48	106	577	28:51	36	1.233	A BV	23129.	20.000 PPB		48	M-XYLENE
49	106	590	29:30	36	1.261	A VB	12285.	12.000 PPB		49	O- & P-XYLENE
50	146	657	32:51	36	1.404	A BB	42903.	20.000 PPB		50	O-DICHLOROBENZENE
51	55	161	8:03	1	1.006	A BB	7197.	20.000 PPB		51	CYCLOPENTANE
52	106	577	28:51	36	1.233	A BV	23129.	20.000 PPB		52	XYLENE (TOTAL)
53	45	142	7:06	1	0.887	A BB	1511.	20.000 PPB		53	2-PROPANOL

CKV020HV 3

Sample: VSTD020 CRV#CKV
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKV Submitted by: AQUTEC
Volume: 5.000 ml

05/23/90 2238
OWAC -- CMS

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	0:54	0	0.112	1.00	22.00	22.00	1.137	1.137	1.00	2	CHLOROMETHANE
3	1:33	0	0.194	1.00	22.00	22.00	1.599	1.599	1.00	3	BROMOMETHANE
4	2:03	0	0.256	1.00	20.00	20.00	1.289	1.289	1.00	4	VINYL CHLORIDE
5	2:45	0	0.344	1.00	22.00	22.00	0.847	0.847	1.00	5	CHLOROETHANE
6	4:36	0	0.575	1.00	20.00	20.00	2.335	2.335	1.00	6	METHYLENE CHLORIDE
7	5:36	0	0.700	1.00	20.00	20.00	0.683	0.683	1.00	7	ACETONE
8	5:42	0	0.713	1.00	20.00	20.00	0.066	0.066	1.00	8	ACROLEIN
9	6:24	0	0.800	1.00	20.00	20.00	0.287	0.287	1.00	9	ACRYLONITRILE
10	6:18	0	0.788	1.00	20.00	20.00	2.278	2.278	1.00	10	CARBON DISULFIDE
11	6:48	0	0.850	1.00	20.00	20.00	1.897	1.897	1.00	11	TRICHLOROFLUOROMETHANE
12	7:36	0	0.950	1.00	20.00	20.00	0.841	0.841	1.00	12	1,1-DICHLOROETHENE
14	8:51	0	1.106	1.00	20.00	20.00	2.342	2.342	1.00	14	1,1-DICHLOROETHANE
15	9:03	0	1.131	1.00	20.00	20.00	0.118	0.118	1.00	15	TETRAHYDROFURAN
16	9:45	0	1.219	1.00	20.00	20.00	1.084	1.084	1.00	16	1,2-DICHLOROETHENE (TOTAL)
17	10:09	0	1.269	1.00	20.00	20.00	2.872	2.872	1.00	17	CHLOROFORM
18	11:03	0	1.381	1.00	20.00	20.00	2.351	2.351	1.00	18	1,2-DICHLOROETHANE
20	11:15	0	1.406	1.00	20.00	20.00	0.087	0.087	1.00	20	2-BUTANONE
21	10:30	0	0.565	1.00	20.00	20.00	0.430	0.430	1.00	21	FREON TF
22	12:09	0	0.653	1.00	20.00	20.00	0.488	0.488	1.00	22	1,1,1-TRICHLOROETHANE
23	12:33	0	0.675	1.00	20.00	20.00	0.483	0.483	1.00	23	CARBON TETRACHLORIDE
24	13:09	0	0.707	1.00	20.00	20.00	0.549	0.549	1.00	24	VINYL ACETATE
25	13:12	0	0.710	1.00	20.00	20.00	0.525	0.525	1.00	25	BROMODICHLOROMETHANE
26	14:36	0	0.785	1.00	20.00	20.00	0.356	0.356	1.00	26	1,2-DICHLOROPROPANE
27	14:57	0	0.804	1.00	20.00	20.00	0.411	0.411	1.00	27	CIS-1,3-DICHLOROPROPENE
28	15:30	0	0.833	1.00	20.00	20.00	0.411	0.411	1.00	28	TRICHLOROETHENE
29	15:54	0	0.855	1.00	20.00	20.00	0.485	0.485	1.00	29	DIBROMOCHLOROMETHANE
30	18:18	0	0.984	1.00	20.00	20.00	0.136	0.136	1.00	30	METHYLCYCLOHEXANE
31	16:06	0	0.866	1.00	20.00	20.00	0.338	0.338	1.00	31	1,1,2-TRICHLOROETHANE
32	16:03	0	0.863	1.00	20.00	20.00	0.810	0.810	1.00	32	BENZENE
33	16:12	0	0.871	1.00	20.00	20.00	0.379	0.379	1.00	33	TRANS-1,3-DICHLOROPROPENE
34	17:18	0	0.930	1.00	20.00	20.00	0.110	0.110	1.00	34	2-CHLOROETHYLVINYLETHER
35	18:30	0	0.995	1.00	20.00	20.00	0.392	0.392	1.00	35	BROMOFORM
37	19:15	0	0.823	1.00	20.00	20.00	0.793	0.793	1.00	37	4-METHYL-2-PENTANONE
38	20:51	0	0.891	1.00	20.00	20.00	0.698	0.698	1.00	38	2-HEXANONE
39	20:51	0	0.891	1.00	20.00	20.00	0.887	0.887	1.00	39	1,1,2,2-TETRACHLOROETHANE
40	21:03	0	0.900	1.00	20.00	20.00	0.568	0.568	1.00	40	TETRACHLOROETHENE
41	21:57	0	0.938	1.00	20.00	20.00	0.302	0.302	1.00	41	BUTYL ACETATE
43	22:27	0	0.959	1.00	20.00	20.00	0.683	0.683	1.00	43	TOLUENE
44	23:33	0	1.006	1.00	20.00	20.00	1.091	1.091	1.00	44	CHLOROBENZENE
45	25:21	0	1.083	1.00	20.00	20.00	0.460	0.460	1.00	45	ETHYLBENZENE
47	28:36	0	1.222	1.00	20.00	20.00	0.967	0.967	1.00	47	STYRENE
48	28:51	0	1.233	1.00	20.00	20.00	0.616	0.616	1.00	48	M-XYLENE
49	29:30	0	1.261	1.00	12.00	12.00	0.546	0.546	1.00	49	O- & P-XYLENE
50	32:51	0	1.404	1.00	20.00	20.00	1.143	1.143	1.00	50	O-DICHLOROBENZENE
51	8:03	0	1.006	1.00	20.00	20.00	0.708	0.708	1.00	51	CYCLOPENTANE
52	28:51	0	1.233	1.00	20.00	20.00	0.616	0.616	1.00	52	XYLENE (TOTAL)
53	7:06	0	0.887	1.00	20.00	20.00	0.149	0.149	1.00	53	2-PROPANOL

PROCEDURE: TCA DIAGNOSTIC REPORT 5/23/90 23:19:24
DATA FILE: CKV020HV
REFERENCE: JTAB11
NAME LIST: UM INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: UMRET1

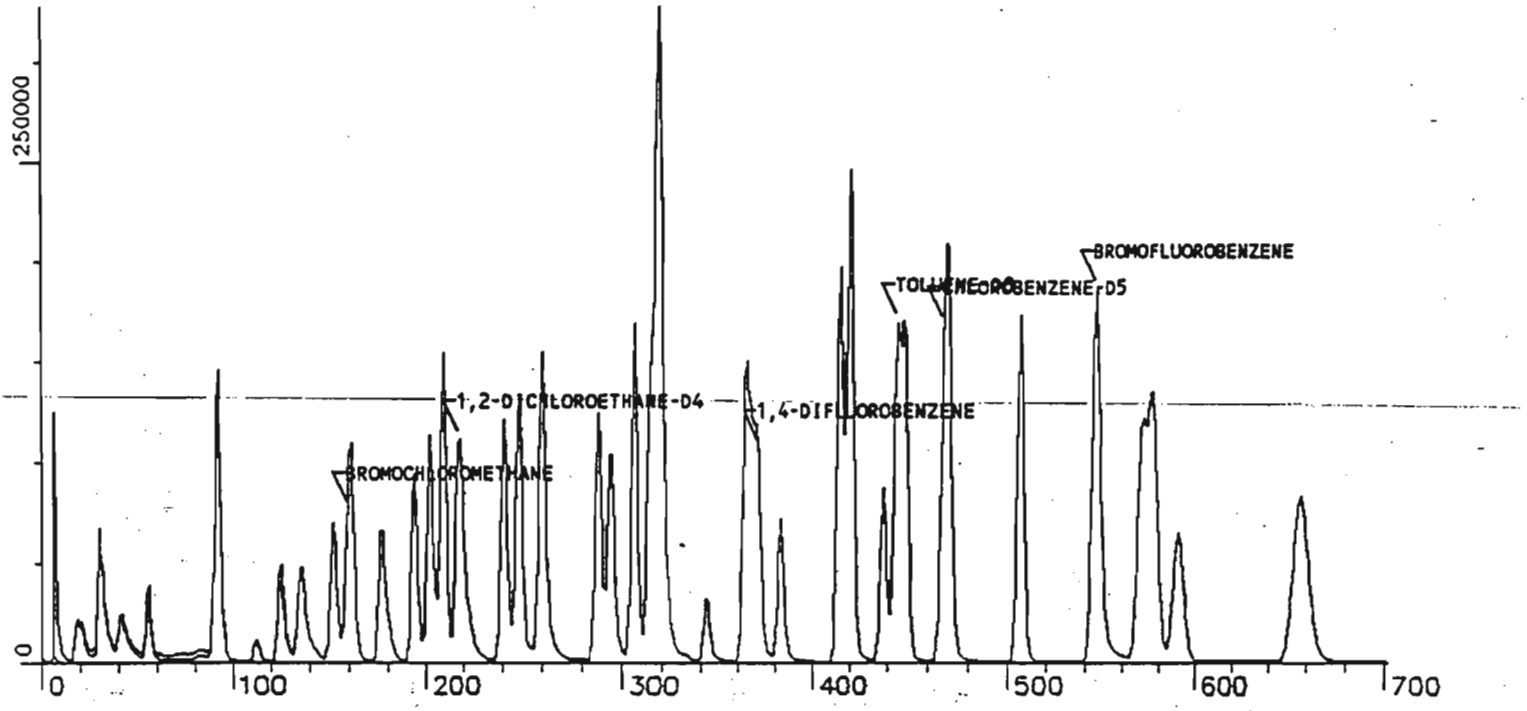
--- STANDARDS ---				PLUS UNKNOWNS ---				LIST NAMES
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
1	1	1	0	10	10	1	131	UMRET1/UMUNK1
2	2	1	0	14	13	4	64	UMRET2/UMUNK2
2	2	1	0	10	10	4	50	UMRET2/UMUNK3
2	1	1	0	9	9	1	51	UMRET3/UMUNK4
1	1	1	0	8	8	2	108	UMRET4/UMUNK5

52 COMPOUNDS PROCESSED, 49 FOUND

COMPOUND			SEARCH					SAT	CHRO			
NO	LIB	ENTRY	REF	PRED	SPEC	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	UM	1	-158	160	160	.	1	983	.	128	160	.	1
2	UM	2	-18	18	18	.	1	991	.	50	18	.	1
3	UM	3	-30	31	31	.	1	973	.	94	31	.	1
4	UM	4	-40	41	41	.	1	999	.	62	41	.	1
5	UM	5	-55	56	55	-1	1	1000	.	64	55	.	1
6	UM	6	-89	90	92	2	1	996	.	84	92	.	1
7	UM	7	-113	115	112	-3	1	996	.	43	112	.	1
8	UM	8	-112	114	114	.	1	1000	.	56	114	.	1
9	UM	9	-125	127	128	1	1	951	.	53	128	.	1
10	UM	10	-122	124	126	2	1	998	.	76	126	.	1
11	UM	11	-134	136	136	.	1	995	.	101	136	.	1
12	UM	12	-151	153	153	.	1	995	.	96	152	-1	1
13	UM	53	-144	146	.	.	.	.	.	45	.	.	.
14	UM	13	-371	372	372	.	1	1000	.	114	372	.	1
15	UM	51	-160	161	161	.	1	983	.	55	161	.	1
16	UM	14	-176	177	177	.	1	1000	.	63	177	.	1
17	UM	15	-180	181	.	.	.	.	.	71	181	.	1
18	UM	16	-193	194	195	1	1	997	.	96	195	.	1
19	UM	17	-202	203	204	1	2	997	.	83	203	-1	1
20	UM	18	-219	220	221	1	1	992	.	62	221	.	1
21	UM	19	-217	218	219	1	1	997	.	65	219	.	1
22	UM	20	-224	225	225	.	1	986	.	72	225	.	1
23	UM	21	-210	211	210	-1	1	994	.	101	210	.	1
24	UM	22	-242	243	243	.	1	993	.	97	243	.	1
25	UM	23	-250	251	251	.	2	995	.	117	251	.	1
26	UM	24	-262	263	263	.	1	992	.	43	263	.	1
27	UM	25	-262	264	264	.	1	991	.	83	264	.	1
28	UM	26	-291	293	292	-1	1	989	.	63	292	.	1
29	UM	27	-297	299	299	.	2	978	.	75	299	.	1
30	UM	28	-309	311	310	-1	1	997	.	130	310	.	1
31	UM	29	-316	318	318	.	1	998	.	129	318	.	1
32	UM	30	-365	366	366	.	1	986	.	98	366	.	1
33	UM	31	-320	322	322	.	1	994	.	97	322	.	1
34	UM	32	-320	322	321	-1	1	994	.	78	321	.	1
35	UM	33	-322	323	324	1	2	997	.	75	324	.	1
36	UM	34	-345	346	346	.	1	985	.	63	346	.	1
37	UM	35	-369	370	371	1	1	944	.	173	370	-1	1
38	UM	36	-467	468	.	.	.	.	.	117	468	.	1
39	UM	37	-384	385	385	.	1	992	.	43	385	.	1
40	UM	38	-416	417	417	.	1	958	.	43	417	.	1
41	UM	39	-415	416	417	1	1	996	.	83	417	.	1
42	UM	40	-421	422	422	.	1	977	.	164	421	-1	1
43	UM	41	-438	439	439	.	1	998	.	56	439	.	1
44	UM	42	-444	445	446	1	1	997	.	98	446	.	1
45	UM	43	-448	449	450	1	1	995	.	92	449	-1	1
46	UM	44	-469	471	470	-1	1	992	.	112	471	1	1
47	UM	45	-506	508	507	-1	1	996	.	106	507	.	1
48	UM	46	-545	547	546	-1	1	997	.	95	546	.	1
49	UM	47	-569	571	572	1	1	999	.	104	572	.	1
50	UM	48	-575	577	577	.	2	998	.	106	577	.	1
51	UM	49	-589	591	591	.	1	984	.	106	590	-1	1
52	UM	50	-653	655	657	2	1	995	.	146	657	.	1

CKV100HV 1
05/23/90 2336
OWAC -- CMS

Sample: VSTD100 CRV#CKV
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKV Submitted by: AQUTEC
Volume: 5.000 ml



No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
1	128	159	7:57	1	1.000	A BB	24303.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	371	18:33	13	1.000	A BB	118886.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	468	23:24	36	1.000	A BB	95960.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	217	10:51	1	1.365	A BV	107063.	100.000 PPB	200.0	19	1,2-DICHLOROETHANE-D4
42	98	445	22:15	36	0.951	A BB	204353.	100.000 PPB	200.0	42	TOLUENE-D8
46	95	546	27:18	36	1.167	A BB	160000.	100.000 PPB	200.0	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	18:33	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	1.365	1.00	100.00	100.00	2.203	2.203	1.00	19	1,2-DICHLOROETHANE-D4
42	22:15	0	0.951	1.00	100.00	100.00	1.065	1.065	1.00	42	TOLUENE-D8
46	27:18	0	1.167	1.00	100.00	100.00	0.834	0.834	1.00	46	BROMOFLUOROBENZENE

CKV100HV (05/23/90 23:36) RFs loaded on OWAC 5/24/90 2:09:35

CKV100HV 2

05/23/90 2336
OWAC -- CMS

Sample: VSTD100 CRV#CKV
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKV Submitted by: AQUTEC
Volume: 5.000 ml

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
2	50	19	0:57	1	0.119	A BB	53531.	110.000 PPB		2	CHLOROMETHANE
3	94	30	1:30	1	0.189	A BB	77122.	110.000 PPB		3	BROMOMETHANE
4	62	41	2:03	1	0.258	A BB	59872.	100.000 PPB		4	VINYL CHLORIDE
5	64	56	2:48	1	0.352	A VB	40938.	110.000 PPB		5	CHLOROETHANE
6	84	92	4:36	1	0.579	A BB	91459.	100.000 PPB		6	METHYLENE CHLORIDE
7	43	112	5:36	1	0.704	A BB	22177.	100.000 PPB		7	ACETONE
8	56	113	5:39	1	0.711	A BB	5519.	100.000 PPB		8	ACROLEIN
9	53	126	6:18	1	0.792	A BB	13961.	100.000 PPB		9	ACRYLONITRILE
10	76	125	6:15	1	0.786	A BB	126468.	100.000 PPB		10	CARBON DISULFIDE
11	101	135	6:45	1	0.849	A BB	99942.	100.000 PPB		11	TRICHLOROFLUOROMETHANE
12	96	152	7:36	1	0.956	A BB	43429.	100.000 PPB		12	1,1-DICHLOROETHENE
14	63	176	8:48	1	1.107	A BV	113922.	100.000 PPB		14	1,1-DICHLOROETHANE
15	71	180	9:00	1	1.132	A BB	5823.	100.000 PPB		15	TETRAHYDROFURAN
16	96	194	9:42	1	1.220	A BB	55809.	100.000 PPB		16	1,2-DICHLOROETHENE (TOTAL)
17	83	202	10:06	1	1.270	A BB	140664.	100.000 PPB		17	CHLOROFORM
18	62	219	10:57	1	1.377	A BB	112322.	100.000 PPB		18	1,2-DICHLOROETHANE
20	72	223	11:09	1	1.403	A BB	6081.	100.000 PPB		20	2-BUTANONE
21	101	209	10:27	13	0.563	A BB	106789.	100.000 PPB		21	FREON TF
22	97	241	12:03	13	0.650	A BB	120971.	100.000 PPB		22	1,1,1-TRICHLOROETHANE
23	117	248	12:24	13	0.668	A BB	142600.	100.000 PPB		23	CARBON TETRACHLORIDE
24	43	260	13:00	13	0.701	A BV	132191.	100.000 PPB		24	VINYL ACETATE
25	83	260	13:00	13	0.701	A BB	137203.	100.000 PPB		25	BROMODICHLOROMETHANE
26	63	288	14:24	13	0.776	A BB	82926.	100.000 PPB		26	1,2-DICHLOROPROPANE
27	75	294	14:42	13	0.792	A BB	105259.	100.000 PPB		27	CIS-1,3-DICHLOROPROPENE
28	130	307	15:21	13	0.827	A BB	95832.	100.000 PPB		28	TRICHLOROETHENE
29	129	314	15:42	13	0.846	A BB	135256.	100.000 PPB		29	DIBROMOCHLOROMETHANE
30	98	364	18:12	13	0.981	A BB	34618.	100.000 PPB		30	METHYLCYCLOHEXANE
31	97	318	15:54	13	0.857	A VB	81563.	100.000 PPB		31	1,1,2-TRICHLOROETHANE
32	78	318	15:54	13	0.857	A BB	192656.	100.000 PPB		32	BENZENE
33	75	320	16:00	13	0.863	A BB	100196.	100.000 PPB		33	TRANS-1,3-DICHLOROPROPENE
34	63	343	17:09	13	0.925	A BB	26369.	100.000 PPB		34	2-CHLOROETHYLVINYLETHER
35	173	368	18:24	13	0.992	A BB	105865.	100.000 PPB		35	BROMOFORM
37	43	383	19:09	36	0.818	A BB	122486.	100.000 PPB		37	4-METHYL-2-PENTANONE
38	43	415	20:45	36	0.887	A BB	103500.	100.000 PPB		38	2-HEXANONE
39	83	415	20:45	36	0.887	A BB	154063.	100.000 PPB		39	1,1,2,2-TETRACHLOROETHANE
40	164	420	21:00	36	0.897	A BB	101507.	100.000 PPB		40	TETRACHLOROETHENE
41	56	438	21:54	36	0.936	A BB	53039.	100.000 PPB		41	BUTYL ACETATE
43	92	449	22:27	36	0.959	A BB	123475.	100.000 PPB		43	TOLUENE
44	112	470	23:30	36	1.004	A BB	185644.	100.000 PPB		44	CHLOROBENZENE
45	106	507	25:21	36	1.083	A BB	81741.	100.000 PPB		45	ETHYLBENZENE
47	104	571	28:33	36	1.220	A BB	164459.	100.000 PPB		47	STYRENE
48	106	577	28:51	36	1.233	A BV	107517.	100.000 PPB		48	M-XYLENE
49	106	591	29:33	36	1.263	A VB	56493.	60.000 PPB		49	O- & P-XYLENE
50	146	657	32:51	36	1.404	A BB	169285.	100.000 PPB		50	O-DICHLOROBENZENE
51	55	161	8:03	1	1.013	A BB	38545.	100.000 PPB		51	CYCLOPENTANE
52	106	577	28:51	36	1.233	A BV	107517.	100.000 PPB		52	XYLENE (TOTAL)
53	45	142	7:06	1	0.893	A BB	2260.	100.000 PPB		53	2-PROPANOL

CKV100HV 3

05/23/90 2336
OWAC -- CMS

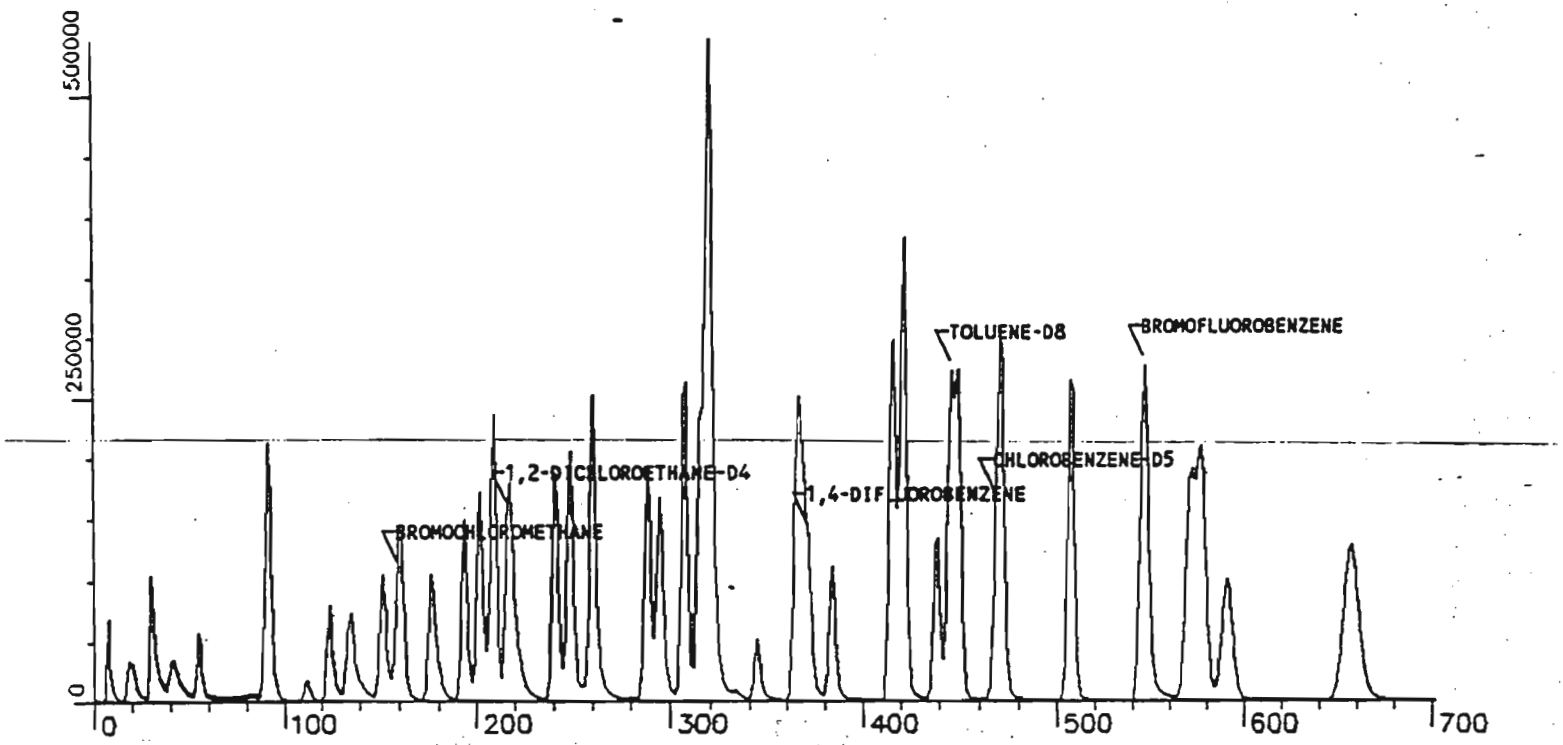
Sample: VSTD100 CRV#CKV
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKV Submitted by: AQUTEC
Volume: 5.000 ml

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	0:57	0	0.119	1.00	110.00	110.00	1.001	1.001	1.00	2	CHLOROMETHANE
3	1:30	0	0.189	1.00	110.00	110.00	1.442	1.442	1.00	3	BROMOMETHANE
4	2:03	0	0.258	1.00	100.00	100.00	1.232	1.232	1.00	4	VINYL CHLORIDE
5	2:48	0	0.352	1.00	110.00	110.00	0.766	0.766	1.00	5	CHLOROETHANE
6	4:36	0	0.579	1.00	100.00	100.00	1.882	1.882	1.00	6	METHYLENE CHLORIDE
7	5:36	0	0.704	1.00	100.00	100.00	0.456	0.456	1.00	7	ACETONE
8	5:39	0	0.711	1.00	100.00	100.00	0.114	0.114	1.00	8	ACROLEIN
9	6:18	0	0.792	1.00	100.00	100.00	0.287	0.287	1.00	9	ACRYLONITRILE
10	6:15	0	0.786	1.00	100.00	100.00	2.602	2.602	1.00	10	CARBON DISULFIDE
11	6:45	0	0.849	1.00	100.00	100.00	2.056	2.056	1.00	11	TRICHLOROFLUOROMETHANE
12	7:36	0	0.956	1.00	100.00	100.00	0.893	0.893	1.00	12	1,1-DICHLOROETHENE
14	8:48	0	1.107	1.00	100.00	100.00	2.344	2.344	1.00	14	1,1-DICHLOROETHANE
15	9:00	0	1.132	1.00	100.00	100.00	0.120	0.120	1.00	15	TETRAHYDROFURAN
16	9:42	0	1.220	1.00	100.00	100.00	1.148	1.148	1.00	16	1,2-DICHLOROETHENE (TOTAL)
17	10:06	0	1.270	1.00	100.00	100.00	2.894	2.894	1.00	17	CHLOROFORM
18	10:57	0	1.377	1.00	100.00	100.00	2.311	2.311	1.00	18	1,2-DICHLOROETHANE
20	11:09	0	1.403	1.00	100.00	100.00	0.125	0.125	1.00	20	2-BUTANONE
21	10:27	0	0.563	1.00	100.00	100.00	0.449	0.449	1.00	21	FREON TF
22	12:03	0	0.650	1.00	100.00	100.00	0.509	0.509	1.00	22	1,1,1-TRICHLOROETHANE
23	12:24	0	0.668	1.00	100.00	100.00	0.600	0.600	1.00	23	CARBON TETRACHLORIDE
24	13:00	0	0.701	1.00	100.00	100.00	0.556	0.556	1.00	24	VINYL ACETATE
25	13:00	0	0.701	1.00	100.00	100.00	0.577	0.577	1.00	25	BROMODICHLOROMETHANE
26	14:24	0	0.776	1.00	100.00	100.00	0.349	0.349	1.00	26	1,2-DICHLOROPROPANE
27	14:42	0	0.792	1.00	100.00	100.00	0.443	0.443	1.00	27	CIS-1,3-DICHLOROPROPENE
28	15:21	0	0.827	1.00	100.00	100.00	0.403	0.403	1.00	28	TRICHLOROETHENE
29	15:42	0	0.846	1.00	100.00	100.00	0.569	0.569	1.00	29	DIBROMOCHLOROMETHANE
30	18:12	0	0.981	1.00	100.00	100.00	0.146	0.146	1.00	30	METHYLCYCLOHEXANE
31	15:54	0	0.857	1.00	100.00	100.00	0.343	0.343	1.00	31	1,1,2-TRICHLOROETHANE
32	15:54	0	0.857	1.00	100.00	100.00	0.810	0.810	1.00	32	BENZENE
33	16:00	0	0.863	1.00	100.00	100.00	0.421	0.421	1.00	33	TRANS-1,3-DICHLOROPROPENE
34	17:09	0	0.925	1.00	100.00	100.00	0.111	0.111	1.00	34	2-CHLOROETHYLVINYLETHER
35	18:24	0	0.992	1.00	100.00	100.00	0.445	0.445	1.00	35	BROMOFORM
37	19:09	0	0.818	1.00	100.00	100.00	0.638	0.638	1.00	37	4-METHYL-2-PENTANONE
38	20:45	0	0.887	1.00	100.00	100.00	0.539	0.539	1.00	38	2-HEXANONE
39	20:45	0	0.887	1.00	100.00	100.00	0.803	0.803	1.00	39	1,1,2,2-TETRACHLOROETHANE
40	21:00	0	0.897	1.00	100.00	100.00	0.529	0.529	1.00	40	TETRACHLOROETHENE
41	21:54	0	0.936	1.00	100.00	100.00	0.276	0.276	1.00	41	BUTYL ACETATE
43	22:27	0	0.959	1.00	100.00	100.00	0.643	0.643	1.00	43	TOLUENE
44	23:30	0	1.004	1.00	100.00	100.00	0.967	0.967	1.00	44	CHLOROBENZENE
45	25:21	0	1.083	1.00	100.00	100.00	0.426	0.426	1.00	45	ETHYLBENZENE
47	28:33	0	1.220	1.00	100.00	100.00	0.857	0.857	1.00	47	STYRENE
48	28:51	0	1.233	1.00	100.00	100.00	0.560	0.560	1.00	48	M-XYLENE
49	29:33	0	1.263	1.00	60.00	60.00	0.491	0.491	1.00	49	O- & P-XYLENE
50	32:51	0	1.404	1.00	100.00	100.00	0.882	0.882	1.00	50	O-DICHLOROBENZENE
51	8:03	0	1.013	1.00	100.00	100.00	0.793	0.793	1.00	51	CYCLOPENTANE
52	28:51	0	1.233	1.00	100.00	100.00	0.560	0.560	1.00	52	XYLENE (TOTAL)
53	7:06	0	0.893	1.00	100.00	100.00	0.046	0.046	1.00	53	2-PROPANOL

CKV150HV 1

05/24/90 0023
OWAC -- KLK

Sample: VSTD150 CRV#CKV
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKV Submitted by: AQUTEC
Volume: 5.000 ml



No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
1	128	159	7:57	1	1.000	A BB	24758.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	371	18:33	13	1.000	A BB	120484.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	468	23:24	36	1.000	A BB	98026.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	216	10:48	1	1.358	A BB	163385.	150.000 PPB	300.0	19	1,2-DICHLOROETHANE-D4
42	98	446	22:18	36	0.953	A BB	321167.	150.000 PPB	300.0	42	TOLUENE-D8
46	95	546	27:18	36	1.167	A BB	249033.	150.000 PPB	300.0	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	18:33	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	10:48	0	1.358	1.00	150.00	150.00	2.200	2.200	1.00	19	1,2-DICHLOROETHANE-D4
42	22:18	0	0.953	1.00	150.00	150.00	1.092	1.092	1.00	42	TOLUENE-D8
46	27:18	0	1.167	1.00	150.00	150.00	0.847	0.847	1.00	46	BROMOFLUOROBENZENE

CKV150HV (05/24/90 0:23) RFs loaded on OWAC 5/24/90 2:04:05

CKV150HV 2

05/24/90 0023
OWAC -- KLK

Sample: VSTD150 CRV#CKV
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKV Submitted by: AQUTEC
Volume: 5.000 ml

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
2	50	19	0:57	1	0.119	A BB	78061.	165.000 PPB		2	CHLOROMETHANE
3	94	30	1:30	1	0.189	A BB	105788.	165.000 PPB		3	BROMOMETHANE
4	62	41	2:03	1	0.258	A BB	89821.	150.000 PPB		4	VINYL CHLORIDE
5	64	55	2:45	1	0.346	A VB	59527.	165.000 PPB		5	CHLOROETHANE
6	84	91	4:33	1	0.572	A BB	133657.	150.000 PPB		6	METHYLENE CHLORIDE
7	43	111	5:33	1	0.698	A BV	29977.	150.000 PPB		7	ACETONE
8	56	112	5:36	1	0.704	A BB	8792.	150.000 PPB		8	ACROLEIN
9	53	125	6:15	1	0.786	A BB	22087.	150.000 PPB		9	ACRYLONITRILE
10	76	124	6:12	1	0.780	A BB	194143.	150.000 PPB		10	CARBON DISULFIDE
11	101	135	6:45	1	0.849	A BB	147570.	150.000 PPB		11	TRICHLOROFLUOROMETHANE
12	96	151	7:33	1	0.950	A BB	65656.	150.000 PPB		12	1,1-DICHLOROETHENE
14	63	176	8:48	1	1.107	A BV	170658.	150.000 PPB		14	1,1-DICHLOROETHANE
15	71	179	8:57	1	1.126	A BB	9312.	150.000 PPB		15	TETRAHYDROFURAN
16	96	193	9:39	1	1.214	A BV	83832.	150.000 PPB		16	1,2-DICHLOROETHENE (TOTAL)
17	83	202	10:06	1	1.270	A BB	212600.	150.000 PPB		17	CHLOROFORM
18	62	218	10:54	1	1.371	A BB	170508.	150.000 PPB		18	1,2-DICHLOROETHANE
20	72	223	11:09	1	1.403	A BB	8597.	150.000 PPB		20	2-BUTANONE
21	101	209	10:27	13	0.563	A BB	162488.	150.000 PPB		21	FREON TF
22	97	241	12:03	13	0.650	A BB	188154.	150.000 PPB		22	1,1,1-TRICHLOROETHANE
23	117	249	12:27	13	0.671	A VB	198415.	150.000 PPB		23	CARBON TETRACHLORIDE
24	43	260	13:00	13	0.701	A BV	211595.	150.000 PPB		24	VINYL ACETATE
25	83	260	13:00	13	0.701	A BV	213478.	150.000 PPB		25	BROMODICHLOROMETHANE
26	63	289	14:27	13	0.779	A BV	125946.	150.000 PPB		26	1,2-DICHLOROPROPANE
27	75	295	14:45	13	0.795	A BB	161684.	150.000 PPB		27	CIS-1,3-DICHLOROPROPENE
28	130	307	15:21	13	0.827	A BB	147581.	150.000 PPB		28	TRICHLOROETHENE
29	129	315	15:45	13	0.849	A BB	219127.	150.000 PPB		29	DIBROMOCHLOROMETHANE
30	98	365	18:15	13	0.984	A BB	53288.	150.000 PPB		30	METHYLCYCLOHEXANE
31	97	319	15:57	13	0.860	A VB	129939.	150.000 PPB		31	1,1,2-TRICHLOROETHANE
32	78	319	15:57	13	0.860	A BB	300876.	150.000 PPB		32	BENZENE
33	75	320	16:00	13	0.863	A BB	166096.	150.000 PPB		33	TRANS-1,3-DICHLOROPROPENE
34	63	344	17:12	13	0.927	A BB	39780.	150.000 PPB		34	2-CHLOROETHYLVINYLETHER
35	173	368	18:24	13	0.992	A BB	172419.	150.000 PPB		35	BROMOFORM
37	43	384	19:12	36	0.821	A BB	188568.	150.000 PPB		37	4-METHYL-2-PENTANONE
38	43	416	20:48	36	0.889	A BB	160442.	150.000 PPB		38	2-HEXANONE
39	83	415	20:45	36	0.887	A BB	242410.	150.000 PPB		39	1,1,2,2-TETRACHLOROETHANE
40	164	421	21:03	36	0.900	A BB	154396.	150.000 PPB		40	TETRACHLOROETHENE
41	56	439	21:57	36	0.938	A BB	82391.	150.000 PPB		41	BUTYL ACETATE
43	92	449	22:27	36	0.959	A BB	192505.	150.000 PPB		43	TOLUENE
44	112	470	23:30	36	1.004	A BB	285315.	150.000 PPB		44	CHLOROBENZENE
45	106	507	25:21	36	1.083	A BB	126922.	150.000 PPB		45	ETHYLBENZENE
47	104	571	28:33	36	1.220	A BV	256709.	150.000 PPB		47	STYRENE
48	106	577	28:51	36	1.233	A BV	167201.	150.000 PPB		48	M-XYLENE
49	106	591	29:33	36	1.263	A VB	89281.	90.000 PPB		49	O- & P-XYLENE
50	146	657	32:51	36	1.404	A BB	262708.	150.000 PPB		50	O-DICHLOROBENZENE
51	55	161	8:03	1	1.013	A BB	57009.	150.000 PPB		51	CYCLOPENTANE
52	106	577	28:51	36	1.233	A BV	167201.	150.000 PPB		52	XYLENE (TOTAL)
53	45	141	7:03	1	0.887	A BB	4294.	150.000 PPB		53	2-PROPANOL

CKV150HV 3

05/24/90 0023
OWAC -- KLK

Sample: VSTD150 CRV#CKV
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKV Submitted by: AQUTEC
Volume: 5.000 ml

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	0:57	0	0.119	1.00	165.00	165.00	0.955	0.955	1.00	2	CHLOROMETHANE
3	1:30	0	0.189	1.00	165.00	165.00	1.295	1.295	1.00	3	BROMOMETHANE
4	2:03	0	0.258	1.00	150.00	150.00	1.209	1.209	1.00	4	VINYL CHLORIDE
5	2:45	0	0.346	1.00	165.00	165.00	0.729	0.729	1.00	5	CHLOROETHANE
6	4:33	0	0.572	1.00	150.00	150.00	1.800	1.800	1.00	6	METHYLENE CHLORIDE
7	5:33	0	0.698	1.00	150.00	150.00	0.404	0.404	1.00	7	ACETONE
8	5:36	0	0.704	1.00	150.00	150.00	0.118	0.118	1.00	8	ACROLEIN
9	6:15	0	0.786	1.00	150.00	150.00	0.297	0.297	1.00	9	ACRYLONITRILE
10	6:12	0	0.780	1.00	150.00	150.00	2.614	2.614	1.00	10	CARBON DISULFIDE
11	6:45	0	0.849	1.00	150.00	150.00	1.987	1.987	1.00	11	TRICHLOROFLUOROMETHANE
12	7:33	0	0.950	1.00	150.00	150.00	0.884	0.884	1.00	12	1,1-DICHLOROETHENE
14	8:48	0	1.107	1.00	150.00	150.00	2.298	2.298	1.00	14	1,1-DICHLOROETHANE
15	8:57	0	1.126	1.00	150.00	150.00	0.125	0.125	1.00	15	TETRAHYDROFURAN
16	9:39	0	1.214	1.00	150.00	150.00	1.129	1.129	1.00	16	1,2-DICHLOROETHENE (TOTAL)
17	10:06	0	1.270	1.00	150.00	150.00	2.862	2.862	1.00	17	CHLOROFORM
18	10:54	0	1.371	1.00	150.00	150.00	2.296	2.296	1.00	18	1,2-DICHLOROETHANE
20	11:09	0	1.403	1.00	150.00	150.00	0.116	0.116	1.00	20	2-BUTANONE
21	10:27	0	0.563	1.00	150.00	150.00	0.450	0.450	1.00	21	FREON TF
22	12:03	0	0.650	1.00	150.00	150.00	0.521	0.521	1.00	22	1,1,1-TRICHLOROETHANE
23	12:27	0	0.671	1.00	150.00	150.00	0.549	0.549	1.00	23	CARBON TETRACHLORIDE
24	13:00	0	0.701	1.00	150.00	150.00	0.585	0.585	1.00	24	VINYL ACETATE
25	13:00	0	0.701	1.00	150.00	150.00	0.591	0.591	1.00	25	BROMODICHLOROMETHANE
26	14:27	0	0.779	1.00	150.00	150.00	0.348	0.348	1.00	26	1,2-DICHLOROPROPANE
27	14:45	0	0.795	1.00	150.00	150.00	0.447	0.447	1.00	27	CIS-1,3-DICHLOROPROPENE
28	15:21	0	0.827	1.00	150.00	150.00	0.408	0.408	1.00	28	TRICHLOROETHENE
29	15:45	0	0.849	1.00	150.00	150.00	0.606	0.606	1.00	29	DIBROMOCHLOROMETHANE
30	18:15	0	0.984	1.00	150.00	150.00	0.147	0.147	1.00	30	METHYLCYCLOHEXANE
31	15:57	0	0.860	1.00	150.00	150.00	0.359	0.359	1.00	31	1,1,2-TRICHLOROETHANE
32	15:57	0	0.860	1.00	150.00	150.00	0.832	0.832	1.00	32	BENZENE
33	16:00	0	0.863	1.00	150.00	150.00	0.460	0.460	1.00	33	TRANS-1,3-DICHLOROPROPENE
34	17:12	0	0.927	1.00	150.00	150.00	0.110	0.110	1.00	34	2-CHLOROETHYLVINYLETHER
35	18:24	0	0.992	1.00	150.00	150.00	0.477	0.477	1.00	35	BROMOFORM
37	19:12	0	0.821	1.00	150.00	150.00	0.641	0.641	1.00	37	4-METHYL-2-PENTANONE
38	20:48	0	0.889	1.00	150.00	150.00	0.546	0.546	1.00	38	2-HEXANONE
39	20:45	0	0.887	1.00	150.00	150.00	0.824	0.824	1.00	39	1,1,2,2-TETRACHLOROETHANE
40	21:03	0	0.900	1.00	150.00	150.00	0.525	0.525	1.00	40	TETRACHLOROETHENE
41	21:57	0	0.938	1.00	150.00	150.00	0.280	0.280	1.00	41	BUTYL ACETATE
43	22:27	0	0.959	1.00	150.00	150.00	0.655	0.655	1.00	43	TOLUENE
44	23:30	0	1.004	1.00	150.00	150.00	0.970	0.970	1.00	44	CHLOROBENZENE
45	25:21	0	1.083	1.00	150.00	150.00	0.432	0.432	1.00	45	ETHYLBENZENE
47	28:33	0	1.220	1.00	150.00	150.00	0.873	0.873	1.00	47	STYRENE
48	28:51	0	1.233	1.00	150.00	150.00	0.569	0.569	1.00	48	M-XYLENE
49	29:33	0	1.263	1.00	90.00	90.00	0.506	0.506	1.00	49	O- & P-XYLENE
50	32:51	0	1.404	1.00	150.00	150.00	0.893	0.893	1.00	50	O-DICHLOROBENZENE
51	8:03	0	1.013	1.00	150.00	150.00	0.768	0.768	1.00	51	CYCLOPENTANE
52	28:51	0	1.233	1.00	150.00	150.00	0.569	0.569	1.00	52	XYLENE (TOTAL)
53	7:03	0	0.887	1.00	150.00	150.00	0.058	0.058	1.00	53	2-PROPANOL

PROCEDURE: TCA DIAGNOSTIC REPORT 5/24/90 0:59:53
DATA FILE: CKV150HV
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	11	2	118	UMRET1/UMUNK1
2	2	1	0	14	13	48	99	UMRET2/UMUNK2
2	2	1	0	13	13	4	108	UMRET2/UMUNK3
2	2	1	0	9	9	1	68	UMRET3/UMUNK4
1	1	1	0	8	8	2	63	UMRET4/UMUNK5

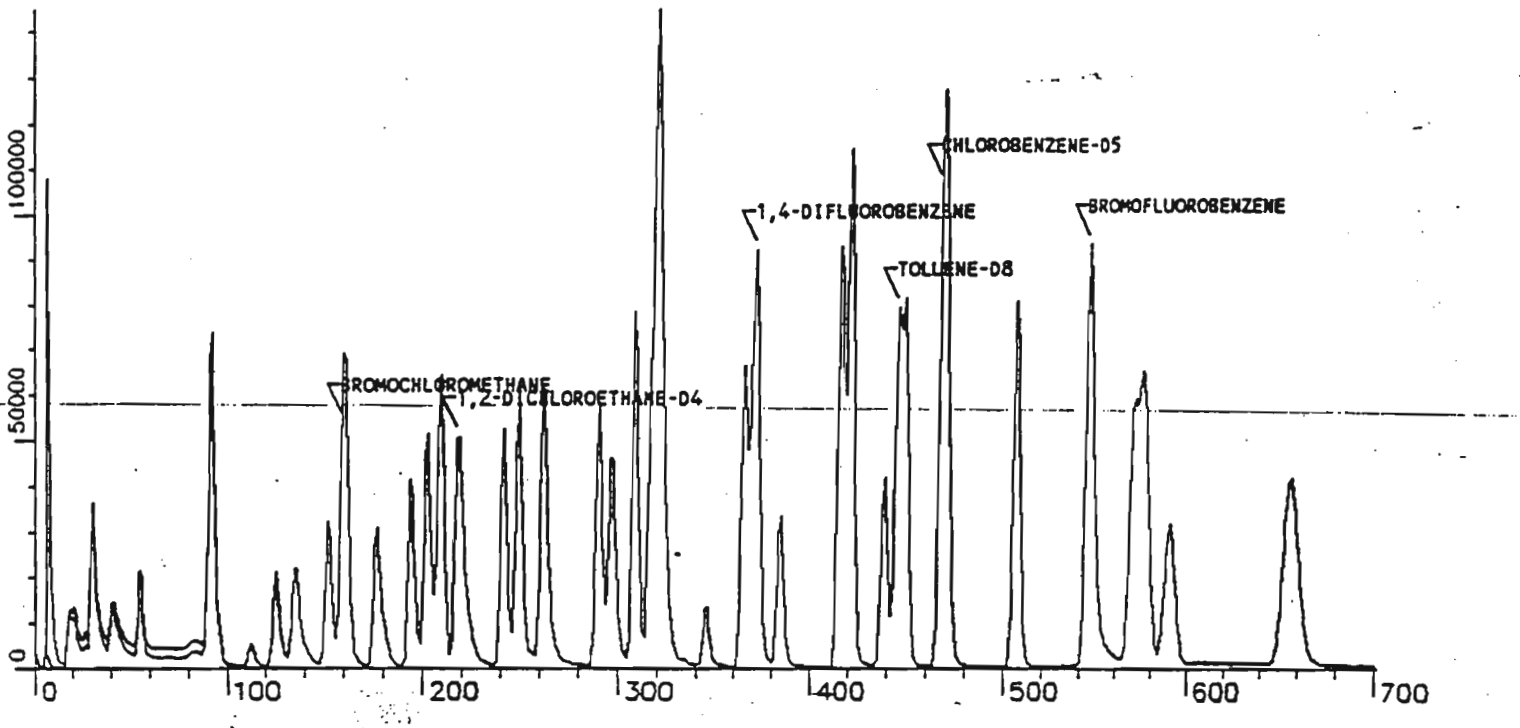
52 COMPOUNDS PROCESSED. 49 FOUND

COMPOUND NO	LIB	ENTRY	SEARCH REF	SEARCH PRED	SEARCH SET	SEARCH DELTA	SEARCH PEAKS	SAT FIT	SAT PEAKS	CHRO M/Z	CHRO TOP	CHRO DELTA	CHRO PEAKS
1	UM	1	-158	159	159	.	1	985	.	128	159	.	1
2	UM	2	-18	18	19	1	2	994	.	50	19	.	1
3	UM	3	-30	31	30	-1	1	984	.	94	30	.	1
4	UM	4	-40	41	41	.	1	997	.	62	41	.	1
5	UM	5	-55	56	55	-1	1	994	.	64	55	.	1
6	UM	6	-89	90	91	1	1	992	.	84	91	.	1
7	UM	7	-113	114	111	-3	1	993	.	43	111	.	1
8	UM	8	-112	113	112	-1	1	999	.	56	112	.	1
9	UM	9	-125	126	.	.	.	.	.	53	125	.	1
10	UM	10	-122	123	124	1	1	999	.	76	124	.	1
11	UM	11	-134	135	135	.	1	994	.	101	135	.	1
12	UM	12	-151	152	152	.	1	993	.	96	151	-1	1
13	UM	53	-144	145	.	.	.	.	.	45	.	.	.
14	UM	13	-371	372	372	.	1	996	.	114	371	-1	1
15	UM	51	-160	160	161	1	1	985	.	55	161	.	1
16	UM	14	-176	176	176	.	1	1000	.	63	176	.	1
17	UM	15	-180	180	.	.	.	.	.	71	179	.	1
18	UM	16	-193	193	193	.	2	996	.	96	193	.	1
19	UM	17	-202	202	202	.	2	996	.	83	202	.	1
20	UM	18	-219	219	218	-1	1	988	.	62	218	.	1
21	UM	19	-217	217	216	-1	1	997	.	65	216	.	1
22	UM	20	-224	224	223	-1	3	994	.	72	223	.	1
23	UM	21	-210	210	209	-1	1	998	.	101	209	.	1
24	UM	22	-242	242	241	-1	1	994	.	97	241	.	1
25	UM	23	-250	250	249	-1	2	992	.	117	249	.	1
26	UM	24	-262	262	260	-2	2	995	.	43	260	.	1
27	UM	25	-262	261	260	-1	1	991	.	83	260	.	1
28	UM	26	-291	290	289	-1	1	985	.	63	289	.	1
29	UM	27	-297	296	295	-1	2	983	.	75	295	.	1
30	UM	28	-309	308	308	.	1	997	.	130	307	-1	1
31	UM	29	-316	315	315	.	1	997	.	129	315	.	1
32	UM	30	-365	364	365	1	1	990	.	98	365	.	1
33	UM	31	-320	319	319	.	1	993	.	97	319	.	1
34	UM	32	-320	319	319	.	1	996	.	78	319	.	1
35	UM	33	-322	321	320	-1	2	997	.	75	320	.	1
36	UM	34	-345	344	344	.	1	987	.	63	344	.	1
37	UM	35	-369	368	368	.	1	994	.	173	368	.	1
38	UM	36	-467	468	468	.	1	993	.	117	468	.	1
39	UM	37	-384	384	384	.	1	990	.	43	384	.	1
40	UM	38	-416	417	416	-1	1	958	.	43	416	.	1
41	UM	39	-415	416	415	-1	1	997	.	83	415	.	1
42	UM	40	-421	422	421	-1	1	982	.	164	421	.	1
43	UM	41	-438	439	439	.	1	1000	.	56	439	.	1
44	UM	42	-444	445	446	1	1	994	.	98	446	.	1
45	UM	43	-448	449	449	.	1	994	.	92	449	.	1
46	UM	44	-469	470	470	.	1	999	.	112	470	.	1
47	UM	45	-506	507	507	.	1	994	.	106	507	.	1
48	UM	46	-545	547	546	-1	1	994	.	95	546	.	1
49	UM	47	-569	571	571	.	1	999	.	104	571	.	1
50	UM	48	-575	577	577	.	1	995	.	106	577	.	1
51	UM	49	-589	591	591	.	2	987	.	106	591	.	1
52	UM	50	-653	656	657	1	1	997	.	146	657	.	1

CKV050HV 1

05/24/90 0112
OWAC -- KLK

Sample: VSTD050 CRV#CKV
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKV Submitted by: AQUTEC
Volume: 5.000 ml



No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
1	128	159	7:57	1	1.000	A BB	22977.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	372	18:36	13	1.000	A BB	109918.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	468	23:24	36	1.000	A BB	89464.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	218	10:54	1	1.371	A BB	50863.	50.000 PPB	100.0	19	1,2-DICHLOROETHANE-D4
42	98	446	22:18	36	0.953	A BB	93812.	50.000 PPB	100.0	42	TOLUENE-D8
46	95	546	27:18	36	1.167	A BB	76826.	50.000 PPB	100.0	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	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	10:54	0	1.371	1.00	50.00	50.00	2.214	2.214	1.00	19	1,2-DICHLOROETHANE-D4
42	22:18	0	0.953	1.00	50.00	50.00	1.049	1.049	1.00	42	TOLUENE-D8
46	27:18	0	1.167	1.00	50.00	50.00	0.859	0.859	1.00	46	BROMOFLUOROBENZENE

CKV050HV (05/24/90 1:12) RFs loaded on OWAC 5/24/90 2:16:36

CKV050HV 2

05/24/90 0112
OWAC -- KLK

Sample: VSTD050 CRV#CKV
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKV Submitted by: AQUTEC
Volume: 5.000 ml

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
2	50	19	0:57	1	0.119	A BB	26685.	55.000 PPB		2	CHLOROMETHANE
3	94	31	1:33	1	0.195	A BB	36788.	55.000 PPB		3	BROMOMETHANE
4	62	41	2:03	1	0.258	A BB	28477.	50.000 PPB		4	VINYL CHLORIDE
5	64	55	2:45	1	0.346	A VB	19142.	55.000 PPB		5	CHLOROETHANE
6	84	91	4:33	1	0.572	A BB	46134.	50.000 PPB		6	METHYLENE CHLORIDE
7	43	112	5:36	1	0.704	A BB	11351.	50.000 PPB		7	ACETONE
8	56	113	5:39	1	0.711	A BB	2386.	50.000 PPB		8	ACROLEIN
9	53	127	6:21	1	0.799	A BB	6563.	50.000 PPB		9	ACRYLONITRILE
10	76	125	6:15	1	0.786	A BB	56873.	50.000 PPB		10	CARBON DISULFIDE
11	101	135	6:45	1	0.849	A BB	44738.	50.000 PPB		11	TRICHLOROFLUOROMETHANE
12	96	152	7:36	1	0.956	A BB	19755.	50.000 PPB		12	1,1-DICHLOROETHENE
14	63	177	8:51	1	1.113	A BB	54754.	50.000 PPB		14	1,1-DICHLOROETHANE
15	71	181	9:03	1	1.138	A BB	2539.	50.000 PPB		15	TETRAHYDROFURAN
16	96	194	9:42	1	1.220	A BB	25601.	50.000 PPB		16	1,2-DICHLOROETHENE (TOTAL)
17	83	203	10:09	1	1.277	A BB	66660.	50.000 PPB		17	CHLOROFORM
18	62	220	11:00	1	1.384	A BB	53685.	50.000 PPB		18	1,2-DICHLOROETHANE
20	72	224	11:12	1	1.409	A BB	2400.	50.000 PPB		20	2-BUTANONE
21	101	210	10:30	13	0.565	A BB	47079.	50.000 PPB		21	FREON TF
22	97	242	12:06	13	0.651	A BB	55092.	50.000 PPB		22	1,1,1-TRICHLOROETHANE
23	117	250	12:30	13	0.672	A VB	56219.	50.000 PPB		23	CARBON TETRACHLORIDE
24	43	262	13:06	13	0.704	A BV	60802.	50.000 PPB		24	VINYL ACETATE
25	83	263	13:09	13	0.707	A BB	60659.	50.000 PPB		25	BROMODICHLOROMETHANE
26	63	291	14:33	13	0.782	A BB	39066.	50.000 PPB		26	1,2-DICHLOROPROPANE
27	75	298	14:54	13	0.801	A BB	47021.	50.000 PPB		27	CIS-1,3-DICHLOROPROPENE
28	130	309	15:27	13	0.831	A BB	43805.	50.000 PPB		28	TRICHLOROETHENE
29	129	317	15:51	13	0.852	A BB	59373.	50.000 PPB		29	DIBROMOCHLOROMETHANE
30	98	366	18:18	13	0.984	A BB	15128.	50.000 PPB		30	METHYLCYCLOHEXANE
31	97	320	16:00	13	0.860	A VB	37559.	50.000 PPB		31	1,1,2-TRICHLOROETHANE
32	78	320	16:00	13	0.860	A BB	87345.	50.000 PPB		32	BENZENE
33	75	323	16:09	13	0.868	A BB	44956.	50.000 PPB		33	TRANS-1,3-DICHLOROPROPENE
34	63	345	17:15	13	0.927	A BB	11260.	50.000 PPB		34	2-CHLOROETHYLVINYLETHER
35	173	370	18:30	13	0.995	A BB	47741.	50.000 PPB		35	BROMOFORM
37	43	385	19:15	36	0.823	A BB	60738.	50.000 PPB		37	4-METHYL-2-PENTANONE
38	43	417	20:51	36	0.891	A BB	49916.	50.000 PPB		38	2-HEXANONE
39	83	416	20:48	36	0.889	A BB	74014.	50.000 PPB		39	1,1,2,2-TETRACHLOROETHANE
40	164	421	21:03	36	0.900	A BB	46786.	50.000 PPB		40	TETRACHLOROETHENE
41	56	439	21:57	36	0.938	A BB	25359.	50.000 PPB		41	BUTYL ACETATE
43	92	449	22:27	36	0.959	A BB	57570.	50.000 PPB		43	TOLUENE
44	112	470	23:30	36	1.004	A BB	88333.	50.000 PPB		44	CHLOROBENZENE
45	106	507	25:21	36	1.083	A BB	38224.	50.000 PPB		45	ETHYLBENZENE
47	104	571	28:33	36	1.220	A BB	79096.	50.000 PPB		47	STYRENE
48	106	577	28:51	36	1.233	A BV	50950.	50.000 PPB		48	M-XYLENE
49	106	591	29:33	36	1.263	A VB	27335.	30.000 PPB		49	O- & P-XYLENE
50	146	657	32:51	36	1.404	A BB	85697.	50.000 PPB		50	O-DICHLOROBENZENE
51	55	161	8:03	1	1.013	A BB	17320.	50.000 PPB		51	CYCLOPENTANE
52	106	577	28:51	36	1.233	A BV	50950.	50.000 PPB		52	XYLENE (TOTAL)
53	45	142	7:06	1	0.893	A BB	1143.	50.000 PPB		53	2-PROPANOL

CKV050HV 3

05/24/90 0112
OWAC -- KLK

Sample: VSTD050 CRV#CKV
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKV Submitted by: AQUTEC
Volume: 5.000 ml

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	0:57	0	0.119	1.00	55.00	55.00	1.056	1.056	1.00	2	CHLOROMETHANE
3	1:33	0	0.195	1.00	55.00	55.00	1.456	1.456	1.00	3	BROMOMETHANE
4	2:03	0	0.258	1.00	50.00	50.00	1.239	1.239	1.00	4	VINYL CHLORIDE
5	2:45	0	0.346	1.00	55.00	55.00	0.757	0.757	1.00	5	CHLOROETHANE
6	4:33	0	0.572	1.00	50.00	50.00	2.008	2.008	1.00	6	METHYLENE CHLORIDE
7	5:36	0	0.704	1.00	50.00	50.00	0.494	0.494	1.00	7	ACETONE
8	5:39	0	0.711	1.00	50.00	50.00	0.104	0.104	1.00	8	ACROLEIN
9	6:21	0	0.799	1.00	50.00	50.00	0.286	0.286	1.00	9	ACRYLONITRILE
10	6:15	0	0.786	1.00	50.00	50.00	2.475	2.475	1.00	10	CARBON DISULFIDE
11	6:45	0	0.849	1.00	50.00	50.00	1.947	1.947	1.00	11	TRICHLOROFLUOROMETHANE
12	7:36	0	0.956	1.00	50.00	50.00	0.860	0.860	1.00	12	1,1-DICHLOROETHENE
14	8:51	0	1.113	1.00	50.00	50.00	2.383	2.383	1.00	14	1,1-DICHLOROETHANE
15	9:03	0	1.138	1.00	50.00	50.00	0.111	0.111	1.00	15	TETRAHYDROFURAN
16	9:42	0	1.220	1.00	50.00	50.00	1.114	1.114	1.00	16	1,2-DICHLOROETHENE (TOTAL)
17	10:09	0	1.277	1.00	50.00	50.00	2.901	2.901	1.00	17	CHLOROFORM
18	11:00	0	1.384	1.00	50.00	50.00	2.336	2.336	1.00	18	1,2-DICHLOROETHANE
20	11:12	0	1.409	1.00	50.00	50.00	0.104	0.104	1.00	20	2-BUTANONE
21	10:30	0	0.565	1.00	50.00	50.00	0.428	0.428	1.00	21	FREON TF
22	12:06	0	0.651	1.00	50.00	50.00	0.501	0.501	1.00	22	1,1,1-TRICHLOROETHANE
23	12:30	0	0.672	1.00	50.00	50.00	0.511	0.511	1.00	23	CARBON TETRACHLORIDE
24	13:06	0	0.704	1.00	50.00	50.00	0.553	0.553	1.00	24	VINYL ACETATE
25	13:09	0	0.707	1.00	50.00	50.00	0.552	0.552	1.00	25	BROMODICHLOROMETHANE
26	14:33	0	0.782	1.00	50.00	50.00	0.355	0.355	1.00	26	1,2-DICHLOROPROPANE
27	14:54	0	0.801	1.00	50.00	50.00	0.428	0.428	1.00	27	CIS-1,3-DICHLOROPROPENE
28	15:27	0	0.831	1.00	50.00	50.00	0.399	0.399	1.00	28	TRICHLOROETHENE
29	15:51	0	0.852	1.00	50.00	50.00	0.540	0.540	1.00	29	DIBROMOCHLOROMETHANE
30	18:18	0	0.984	1.00	50.00	50.00	0.138	0.138	1.00	30	METHYLCYCLOHEXANE
31	16:00	0	0.860	1.00	50.00	50.00	0.342	0.342	1.00	31	1,1,2-TRICHLOROETHANE
32	16:00	0	0.860	1.00	50.00	50.00	0.795	0.795	1.00	32	BENZENE
33	16:09	0	0.868	1.00	50.00	50.00	0.409	0.409	1.00	33	TRANS-1,3-DICHLOROPROPENE
34	17:15	0	0.927	1.00	50.00	50.00	0.102	0.102	1.00	34	2-CHLOROETHYLVINYLETHER
35	18:30	0	0.995	1.00	50.00	50.00	0.434	0.434	1.00	35	BROMOFORM
37	19:15	0	0.823	1.00	50.00	50.00	0.679	0.679	1.00	37	4-METHYL-2-PENTANONE
38	20:51	0	0.891	1.00	50.00	50.00	0.558	0.558	1.00	38	2-HEXANONE
39	20:48	0	0.889	1.00	50.00	50.00	0.827	0.827	1.00	39	1,1,2,2-TETRACHLOROETHANE
40	21:03	0	0.900	1.00	50.00	50.00	0.523	0.523	1.00	40	TETRACHLOROETHENE
41	21:57	0	0.938	1.00	50.00	50.00	0.283	0.283	1.00	41	BUTYL ACETATE
43	22:27	0	0.959	1.00	50.00	50.00	0.643	0.643	1.00	43	TOLUENE
44	23:30	0	1.004	1.00	50.00	50.00	0.987	0.987	1.00	44	CHLOROBENZENE
45	25:21	0	1.083	1.00	50.00	50.00	0.427	0.427	1.00	45	ETHYLBENZENE
47	28:33	0	1.220	1.00	50.00	50.00	0.884	0.884	1.00	47	STYRENE
48	28:51	0	1.233	1.00	50.00	50.00	0.570	0.570	1.00	48	M-XYLENE
49	29:33	0	1.263	1.00	30.00	30.00	0.509	0.509	1.00	49	O- & P-XYLENE
50	32:51	0	1.404	1.00	50.00	50.00	0.958	0.958	1.00	50	O-DICHLOROBENZENE
51	8:03	0	1.013	1.00	50.00	50.00	0.754	0.754	1.00	51	CYCLOPENTANE
52	28:51	0	1.233	1.00	50.00	50.00	0.570	0.570	1.00	52	XYLENE (TOTAL)
53	7:06	0	0.893	1.00	50.00	50.00	0.050	0.050	1.00	53	2-PROPANOL

PROCEDURE: TCA DIAGNOSTIC REPORT 5/24/90 1:48:13
DATA FILE: CKV050HV
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]	11	1	121	UMRET1/UMUNK1
2	2	1	0	[illegible]	14	8	74	UMRET2/UMUNK2
2	2	1	0	[illegible]	13	4	59	UMRET2/UMUNK3
2	1	1	0	[illegible]	[illegible]	1	53	UMRET3/UMUNK4
1	1	1	0	[illegible]	8	4	87	UMRET4/UMUNK5

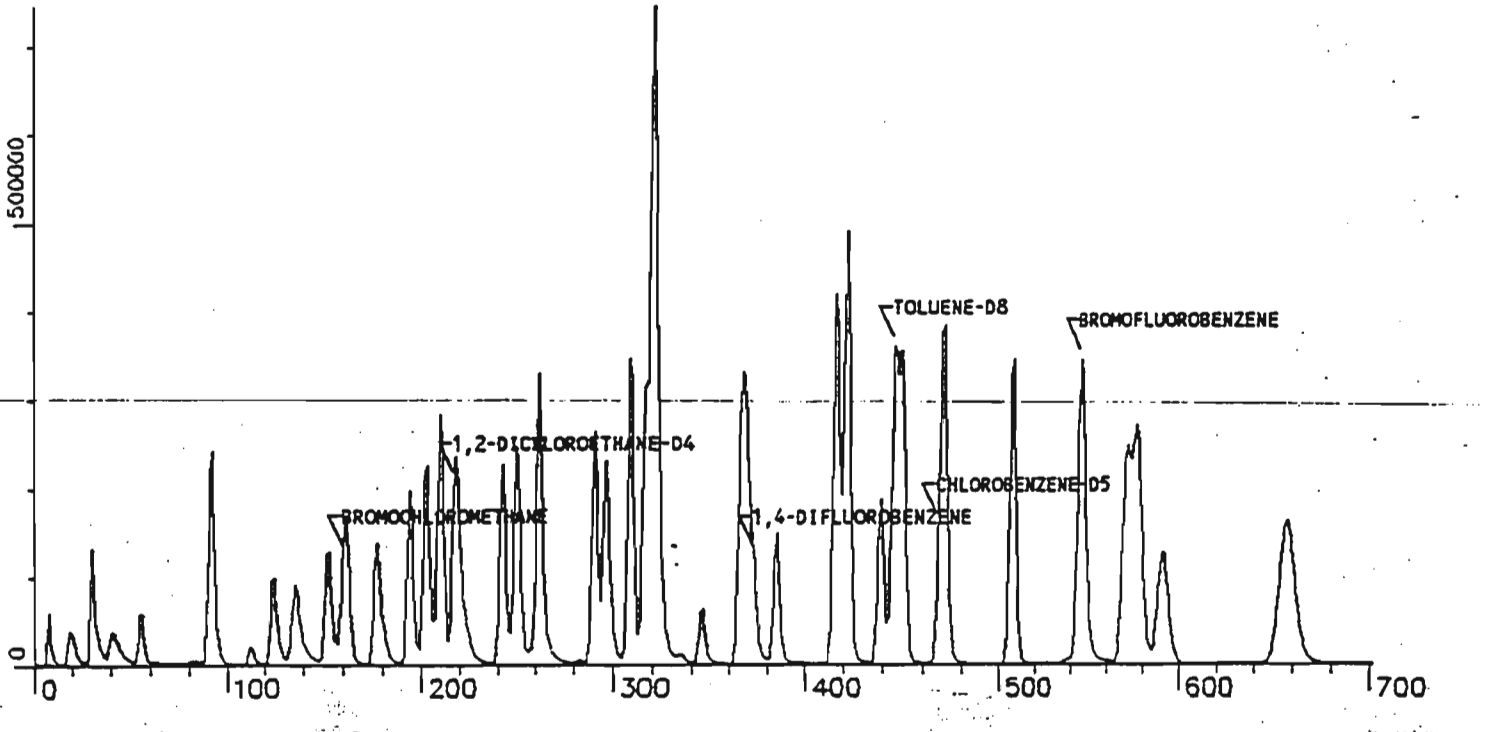
52 COMPOUNDS PROCESSED, 49 FOUND

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	979	.	129	159	-1	1
2	UM	2	-18	19	19	.	1	993	.	50	19	.	1
3	UM	3	-30	31	31	.	1	977	.	94	31	.	1
4	UM	4	-40	41	41	.	1	998	.	62	41	.	1
5	UM	5	-55	56	56	-1	1	997	.	64	55	.	1
6	UM	6	-89	90	90	2	1	995	.	84	91	-1	1
7	UM	7	-113	114	114	-2	1	995	.	43	112	.	1
8	UM	8	-112	113	113	.	1	998	.	56	113	.	1
9	UM	9	-125	126	.	.	.	.	.	53	127	.	1
10	UM	10	-122	123	125	2	1	999	.	76	125	.	1
11	UM	11	-134	135	135	.	1	994	.	101	135	.	1
12	UM	12	-151	152	152	.	1	997	.	96	152	.	1
13	UM	53	-144	145	.	.	.	.	.	45	.	.	.
14	UM	13	-371	372	372	.	1	997	.	114	372	.	1
15	UM	51	-160	161	161	.	1	987	.	55	161	.	1
16	UM	14	-176	177	177	.	1	998	.	63	177	.	1
17	UM	15	-180	181	181	.	1	983	.	71	181	.	1
18	UM	16	-193	194	194	.	1	996	.	96	194	.	1
19	UM	17	-202	203	203	.	2	998	.	83	203	.	1
20	UM	18	-219	220	220	.	1	992	.	62	220	.	1
21	UM	19	-217	218	218	.	1	999	.	65	218	.	1
22	UM	20	-224	225	224	-1	2	995	.	72	224	.	1
23	UM	21	-210	211	209	-2	1	998	.	101	210	1	1
24	UM	22	-242	243	242	-1	1	993	.	97	242	.	1
25	UM	23	-250	251	250	-1	2	993	.	117	250	.	1
26	UM	24	-262	262	262	.	1	998	.	43	262	.	1
27	UM	25	-262	263	263	.	1	988	.	83	263	.	1
28	UM	26	-291	292	291	-1	1	987	.	63	291	.	1
29	UM	27	-297	298	297	-1	2	990	.	75	298	1	1
30	UM	28	-309	310	309	-1	1	996	.	130	309	.	1
31	UM	29	-316	317	317	.	1	997	.	129	317	.	1
32	UM	30	-365	366	366	.	1	983	.	98	366	.	1
33	UM	31	-320	321	321	.	1	995	.	97	320	-1	1
34	UM	32	-320	321	320	-1	1	993	.	78	320	.	1
35	UM	33	-322	323	323	.	2	995	.	75	323	.	1
36	UM	34	-345	346	346	.	1	984	.	63	345	-1	1
37	UM	35	-369	370	370	.	1	988	.	173	370	.	1
38	UM	36	-467	468	.	.	.	.	.	117	468	.	1
39	UM	37	-384	385	385	.	1	992	.	43	385	.	1
40	UM	38	-416	417	417	.	1	956	.	43	417	.	1
41	UM	39	-415	416	416	.	1	994	.	83	416	.	1
42	UM	40	-421	422	421	-1	1	985	.	164	421	.	1
43	UM	41	-438	439	439	.	1	997	.	56	439	.	1
44	UM	42	-444	445	445	1	1	995	.	98	446	.	1
45	UM	43	-448	449	449	.	1	994	.	92	449	.	1
46	UM	44	-469	471	470	-1	1	998	.	112	470	.	1
47	UM	45	-506	508	507	-1	1	996	.	106	507	.	1
48	UM	46	-545	547	546	-1	1	995	.	95	546	.	1
49	UM	47	-569	571	571	.	1	1000	.	104	571	.	1
50	UM	48	-575	577	577	.	2	997	.	106	577	.	1
51	UM	49	-589	591	591	.	2	991	.	106	591	.	1
52	UM	50	-653	655	657	2	1	990	.	146	657	.	1

CKV200HI2V 1

05/24/90 0235
OWAC -- KLK

Sample: VSTD200 CRV#CKV
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKV Submitted by: AQUTEC
Volume: 5.000 ml



No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
1	128	160	8:00	1	1.000	A BB	24211.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	373	18:39	13	1.000	A BB	117883.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	468	23:24	36	1.000	A BB	96530.	50.000 PPB		36	CHLOROBENZENE-D5.
19	65	217	10:51	1	1.356	A BB	216488.	200.000 PPB	400.0	19	1,2-DICHLOROETHANE-D4
42	98	446	22:18	36	0.953	A BB	425378.	200.000 PPB	400.0	42	TOLUENE-D8
46	95	546	27:18	36	1.167	A BB	326373.	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	8:00	0	1.000	1.00	50.00	50.00	1.000	1.000	1.00	1	BROMOCHLOROMETHANE
13	18:39	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	1.356	1.00	200.00	200.00	2.235	2.235	1.00	19	1,2-DICHLOROETHANE-D4
42	22:18	0	0.953	1.00	200.00	200.00	1.102	1.102	1.00	42	TOLUENE-D8
46	27:18	0	1.167	1.00	200.00	200.00	0.845	0.845	1.00	46	BROMOFLUOROBENZENE

CKV200HI2V (05/24/90 2:35) RFs loaded on OWAC 5/24/90 4:13:09

CKV200HI2V 2

05/24/90 0235
OWAC -- KLK

Sample: VSTD200 CRV#CKV
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKV Submitted by: AQUTEC
Volume: 5.000 ml

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
2	50	19	0:57	1	0.119	A BB	86706.	220.000 PPB		2	CHLOROMETHANE
3	94	31	1:33	1	0.194	A BB	126861.	220.000 PPB		3	BROMOMETHANE
4	62	41	2:03	1	0.256	A BB	99474.	200.000 PPB		4	VINYL CHLORIDE
5	64	55	2:45	1	0.344	A VB	68969.	220.000 PPB		5	CHLOROETHANE
6	84	92	4:36	1	0.575	A BB	160935.	200.000 PPB		6	METHYLENE CHLORIDE
7	43	112	5:36	1	0.700	A BB	35793.	200.000 PPB		7	ACETONE
8	56	113	5:39	1	0.706	A BB	11607.	200.000 PPB		8	ACROLEIN
9	53	126	6:18	1	0.788	A BB	29223.	200.000 PPB		9	ACRYLONITRILE
10	76	124	6:12	1	0.775	A BB	247978.	200.000 PPB		10	CARBON DISULFIDE
11	101	136	6:48	1	0.850	A BB	178935.	200.000 PPB		11	TRICHLOROFLUOROMETHANE
12	96	152	7:36	1	0.950	A BB	82053.	200.000 PPB		12	1,1-DICHLOROETHENE
14	63	177	8:51	1	1.106	A BV	223898.	200.000 PPB		14	1,1-DICHLOROETHANE
15	71	180	9:00	1	1.125	A BB	12035.	200.000 PPB		15	TETRAHYDROFURAN
16	96	194	9:42	1	1.212	A BV	108418.	200.000 PPB		16	1,2-DICHLOROETHENE (TOTAL)
17	83	203	10:09	1	1.269	A BB	279528.	200.000 PPB		17	CHLOROFORM
18	62	219	10:57	1	1.369	A BB	223044.	200.000 PPB		18	1,2-DICHLOROETHANE
20	72	224	11:12	1	1.400	A BB	10806.	200.000 PPB		20	2-BUTANONE
21	101	210	10:30	13	0.563	A BB	197838.	200.000 PPB		21	FREON TF
22	97	243	12:09	13	0.651	A BB	230596.	200.000 PPB		22	1,1,1-TRICHLOROETHANE
23	117	250	12:30	13	0.670	A VB	243548.	200.000 PPB		23	CARBON TETRACHLORIDE
24	43	262	13:06	13	0.702	A BV	280913.	200.000 PPB		24	VINYL ACETATE
25	83	262	13:06	13	0.702	A BB	279389.	200.000 PPB		25	BROMODICHLOROMETHANE
26	63	291	14:33	13	0.780	A BV	166272.	200.000 PPB		26	1,2-DICHLOROPROPANE
27	75	297	14:51	13	0.796	A BB	213804.	200.000 PPB		27	CIS-1,3-DICHLOROPROPENE
28	130	309	15:27	13	0.828	A BB	187457.	200.000 PPB		28	TRICHLOROETHENE
29	129	317	15:51	13	0.850	A BB	289653.	200.000 PPB		29	DIBROMOCHLOROMETHANE
30	98	366	18:18	13	0.981	A BB	66696.	200.000 PPB		30	METHYLCYCLOHEXANE
31	97	320	16:00	13	0.858	A VV	175083.	200.000 PPB		31	1,1,2-TRICHLOROETHANE
32	78	321	16:03	13	0.861	A BB	407240.	200.000 PPB		32	BENZENE
33	75	322	16:06	13	0.863	A BB	224471.	200.000 PPB		33	TRANS-1,3-DICHLOROPROPENE
34	63	346	17:18	13	0.928	A BB	48045.	200.000 PPB		34	2-CHLOROETHYLVINYLETHER
35	173	369	18:27	13	0.989	A BB	222938.	200.000 PPB		35	BROMOFORM
37	43	385	19:15	36	0.823	A BB	246091.	200.000 PPB		37	4-METHYL-2-PENTANONE
38	43	417	20:51	36	0.891	A BB	214088.	200.000 PPB		38	2-HEXANONE
39	83	416	20:48	36	0.889	A BB	323987.	200.000 PPB		39	1,1,2,2-TETRACHLOROETHANE
40	164	422	21:06	36	0.902	A BB	192650.	200.000 PPB		40	TETRACHLOROETHENE
41	56	439	21:57	36	0.938	A BB	107823.	200.000 PPB		41	BUTYL ACETATE
43	92	450	22:30	36	0.962	A BB	253869.	200.000 PPB		43	TOLUENE
44	112	471	23:33	36	1.006	A BB	373970.	200.000 PPB		44	CHLOROBENZENE
45	106	507	25:21	36	1.083	A BB	164155.	200.000 PPB		45	ETHYLBENZENE
47	104	571	28:33	36	1.220	A BV	333696.	200.000 PPB		47	STYRENE
48	106	577	28:51	36	1.233	A BV	215976.	200.000 PPB		48	M-XYLENE
49	106	591	29:33	36	1.263	A VB	115367.	120.000 PPB		49	O- & P-XYLENE
50	146	657	32:51	36	1.404	A BB	334906.	200.000 PPB		50	O-DICHLOROBENZENE
51	55	162	8:06	1	1.012	A BB	70242.	200.000 PPB		51	CYCLOPENTANE
52	106	577	28:51	36	1.233	A BV	215976.	200.000 PPB		52	XYLENE (TOTAL)
53	45	143	7:09	1	0.894	A BB	4664.	200.000 PPB		53	2-PROPANOL

CKV200HI2V 3

05/24/90 0235
OWAC -- KLK

Sample: VSTD200 CRV#CKV
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKV Submitted by: AQUTEC
Volume: 5.000 ml

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	0:57	0	0.119	1.00	220.00	220.00	0.814	0.814	1.00	2	CHLOROMETHANE
3	1:33	0	0.194	1.00	220.00	220.00	1.191	1.191	1.00	3	BROMOMETHANE
4	2:03	0	0.256	1.00	200.00	200.00	1.027	1.027	1.00	4	VINYL CHLORIDE
5	2:45	0	0.344	1.00	220.00	220.00	0.647	0.647	1.00	5	CHLOROETHANE
6	4:36	0	0.575	1.00	200.00	200.00	1.662	1.662	1.00	6	METHYLENE CHLORIDE
7	5:36	0	0.700	1.00	200.00	200.00	0.370	0.370	1.00	7	ACETONE
8	5:39	0	0.706	1.00	200.00	200.00	0.120	0.120	1.00	8	ACROLEIN
9	6:18	0	0.788	1.00	200.00	200.00	0.302	0.302	1.00	9	ACRYLONITRILE
10	6:12	0	0.775	1.00	200.00	200.00	2.561	2.561	1.00	10	CARBON DISULFIDE
11	6:48	0	0.850	1.00	200.00	200.00	1.848	1.848	1.00	11	TRICHLOROFLUOROMETHANE
12	7:36	0	0.950	1.00	200.00	200.00	0.847	0.847	1.00	12	1,1-DICHLOROETHENE
14	8:51	0	1.106	1.00	200.00	200.00	2.312	2.312	1.00	14	1,1-DICHLOROETHANE
15	9:00	0	1.125	1.00	200.00	200.00	0.124	0.124	1.00	15	TETRAHYDROFURAN
16	9:42	0	1.212	1.00	200.00	200.00	1.120	1.120	1.00	16	1,2-DICHLOROETHENE (TOTAL)
17	10:09	0	1.269	1.00	200.00	200.00	2.886	2.886	1.00	17	CHLOROFORM
18	10:57	0	1.369	1.00	200.00	200.00	2.303	2.303	1.00	18	1,2-DICHLOROETHANE
20	11:12	0	1.400	1.00	200.00	200.00	0.112	0.112	1.00	20	2-BUTANONE
21	10:30	0	0.563	1.00	200.00	200.00	0.420	0.420	1.00	21	FREON TF
22	12:09	0	0.651	1.00	200.00	200.00	0.489	0.489	1.00	22	1,1,1-TRICHLOROETHANE
23	12:30	0	0.670	1.00	200.00	200.00	0.517	0.517	1.00	23	CARBON TETRACHLORIDE
24	13:06	0	0.702	1.00	200.00	200.00	0.596	0.596	1.00	24	VINYL ACETATE
25	13:06	0	0.702	1.00	200.00	200.00	0.593	0.593	1.00	25	BROMODICHLOROMETHANE
26	14:33	0	0.780	1.00	200.00	200.00	0.353	0.353	1.00	26	1,2-DICHLOROPROPANE
27	14:51	0	0.796	1.00	200.00	200.00	0.453	0.453	1.00	27	CIS-1,3-DICHLOROPROPENE
28	15:27	0	0.828	1.00	200.00	200.00	0.398	0.398	1.00	28	TRICHLOROETHENE
29	15:51	0	0.850	1.00	200.00	200.00	0.614	0.614	1.00	29	DIBROMOCHLOROMETHANE
30	18:18	0	0.981	1.00	200.00	200.00	0.141	0.141	1.00	30	METHYLCYCLOHEXANE
31	16:00	0	0.858	1.00	200.00	200.00	0.371	0.371	1.00	31	1,1,2-TRICHLOROETHANE
32	16:03	0	0.861	1.00	200.00	200.00	0.864	0.864	1.00	32	BENZENE
33	16:06	0	0.863	1.00	200.00	200.00	0.476	0.476	1.00	33	TRANS-1,3-DICHLOROPROPENE
34	17:18	0	0.928	1.00	200.00	200.00	0.102	0.102	1.00	34	2-CHLOROETHYLVINYLETHER
35	18:27	0	0.989	1.00	200.00	200.00	0.473	0.473	1.00	35	BROMOFORM
37	19:15	0	0.823	1.00	200.00	200.00	0.637	0.637	1.00	37	4-METHYL-2-PENTANONE
38	20:51	0	0.891	1.00	200.00	200.00	0.554	0.554	1.00	38	2-HEXANONE
39	20:48	0	0.889	1.00	200.00	200.00	0.839	0.839	1.00	39	1,1,2,2-TETRACHLOROETHANE
40	21:06	0	0.902	1.00	200.00	200.00	0.499	0.499	1.00	40	TETRACHLOROETHENE
41	21:57	0	0.938	1.00	200.00	200.00	0.279	0.279	1.00	41	BUTYL ACETATE
43	22:30	0	0.962	1.00	200.00	200.00	0.657	0.657	1.00	43	TOLUENE
44	23:33	0	1.006	1.00	200.00	200.00	0.969	0.969	1.00	44	CHLOROBENZENE
45	25:21	0	1.083	1.00	200.00	200.00	0.425	0.425	1.00	45	ETHYLBENZENE
47	28:33	0	1.220	1.00	200.00	200.00	0.864	0.864	1.00	47	STYRENE
48	28:51	0	1.233	1.00	200.00	200.00	0.559	0.559	1.00	48	M-XYLENE
49	29:33	0	1.263	1.00	120.00	120.00	0.498	0.498	1.00	49	O- & P-XYLENE
50	32:51	0	1.404	1.00	200.00	200.00	0.867	0.867	1.00	50	O-DICHLOROBENZENE
51	8:06	0	1.012	1.00	200.00	200.00	0.725	0.725	1.00	51	CYCLOPENTANE
52	28:51	0	1.233	1.00	200.00	200.00	0.559	0.559	1.00	52	XYLENE (TOTAL)
53	7:09	0	0.894	1.00	200.00	200.00	0.048	0.048	1.00	53	2-PROPANOL

PROCEDURE: TCA DIAGNOSTIC REPORT 5/24/90 3:14:52
DATA FILE: CKV200HI2V
REFERENCE: UTAB11
NAME LIST: UM INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: UMRET1

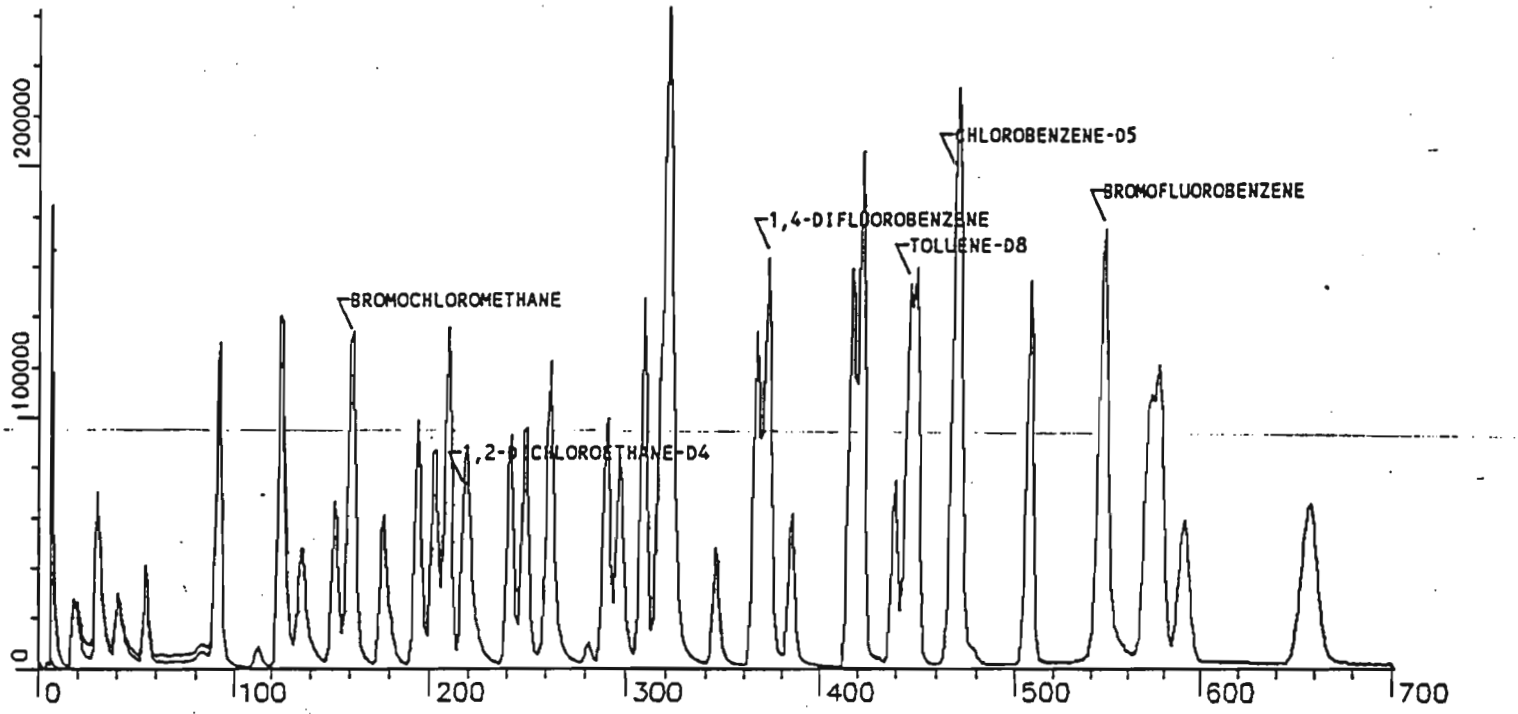
STANDARDS PROC	STANDARDS USED	STANDARDS POSS	STANDARDS RMS	PLUS UNKNOWNS PROC	PLUS UNKNOWNS USED	PLUS UNKNOWNS POSS	PLUS UNKNOWNS RMS	LIST NAMES STANDARD/UNKNOWN
1	1	1	0	13	11	1	111	UMRET1/UMUNK1
2	2	1	0	14	13	24	87	UMRET2/UMUNK2
2	2	1	0	13	13	4	79	UMRET2/UMUNK3
2	2	1	0	9	9	1	54	UMRET3/UMUNK4
1	1	1	0	8	8	2	76	UMRET4/UMUNK5

52 COMPOUNDS PROCESSED. 49 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	983	.	128	160	.	1
2	UM	2	-18	19	19	.	1	992	.	50	19	.	1
3	UM	3	-30	31	31	.	1	980	.	94	31	.	1
4	UM	4	-40	41	41	.	1	999	.	62	41	.	1
5	UM	5	-55	56	55	-1	1	998	.	64	55	.	1
6	UM	6	-89	90	92	2	1	993	.	84	92	.	1
7	UM	7	-113	114	112	-2	1	992	.	43	112	.	1
8	UM	8	-112	113	113	.	1	998	.	56	113	.	1
9	UM	9	-125	126	.	.	.	.	.	53	126	.	1
10	UM	10	-122	123	124	1	1	1000	.	76	124	.	1
11	UM	11	-134	135	136	1	1	993	.	101	136	.	1
12	UM	12	-151	152	152	.	1	995	.	96	152	.	1
13	UM	53	-144	145	.	.	.	.	.	45	143	.	1
14	UM	13	-371	373	373	.	1	996	.	114	373	.	1
15	UM	51	-160	161	162	1	1	986	.	55	162	.	1
16	UM	14	-176	177	177	.	1	997	.	63	177	.	1
17	UM	15	-180	181	.	.	.	.	.	71	180	.	1
18	UM	16	-193	194	194	.	2	998	.	96	194	.	1
19	UM	17	-202	203	203	.	2	997	.	83	203	.	1
20	UM	18	-219	220	219	-1	1	991	.	62	219	.	1
21	UM	19	-217	218	217	-1	1	996	.	65	217	.	1
22	UM	20	-224	225	224	-1	3	996	.	72	224	.	1
23	UM	21	-210	211	210	-1	1	998	.	101	210	.	1
24	UM	22	-242	243	243	.	1	995	.	97	243	.	1
25	UM	23	-250	251	250	-1	2	992	.	117	250	.	1
26	UM	24	-262	263	262	-1	1	998	.	43	262	.	1
27	UM	25	-262	263	262	-1	1	989	.	83	262	.	1
28	UM	26	-291	292	291	-1	1	988	.	63	291	.	1
29	UM	27	-297	298	297	-1	2	980	.	75	297	.	1
30	UM	28	-309	310	309	-1	1	997	.	130	309	.	1
31	UM	29	-316	317	317	.	1	997	.	129	317	.	1
32	UM	30	-365	365	366	1	1	988	.	98	366	.	1
33	UM	31	-320	321	320	-1	1	992	.	97	320	.	1
34	UM	32	-320	321	321	.	1	997	.	78	321	.	1
35	UM	33	-322	323	322	-1	2	995	.	75	322	.	1
36	UM	34	-345	346	346	.	1	983	.	63	346	.	1
37	UM	35	-369	369	369	.	1	993	.	173	369	.	1
38	UM	36	-467	469	469	.	1	989	.	117	468	-1	1
39	UM	37	-384	385	385	.	1	991	.	43	385	.	1
40	UM	38	-416	417	417	.	1	956	.	43	417	.	1
41	UM	39	-415	416	416	.	1	995	.	83	416	.	1
42	UM	40	-421	422	422	.	1	972	.	164	422	.	1
43	UM	41	-438	440	439	-1	1	996	.	56	439	.	1
44	UM	42	-444	446	446	.	1	992	.	98	446	.	1
45	UM	43	-448	450	450	.	1	994	.	92	450	.	1
46	UM	44	-469	471	471	.	1	996	.	112	471	.	1
47	UM	45	-506	508	508	.	1	997	.	106	507	-1	1
48	UM	46	-545	547	546	-1	1	997	.	95	546	.	1
49	UM	47	-569	571	572	1	1	998	.	104	571	-1	1
50	UM	48	-575	577	577	.	1	996	.	106	577	.	1
51	UM	49	-589	592	591	-1	2	993	.	106	591	.	1
52	UM	50	-653	656	657	1	1	995	.	146	657	.	1

CKV050FHV 1
05/29/90 1113
OWAC -- SPS

Sample: VSTD050 CRV#CKV-F
Conditions: GC/MS OWAC
Method: 8240 Matrix: STANDARD Curve: CKV Submitted by: AQUTEC
Volume: 5.000 ml



No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
1	128	160	8:00	1	1.000	A BB	45600.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	372	18:36	13	1.000	A BB	202177.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	468	23:24	36	1.000	A BB	166393.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	217	10:51	1	1.356	A BB	84983.	50.000 PPB	100.0	19	1,2-DICHLOROETHANE-D4
42	98	446	22:18	36	0.953	A BB	191563.	50.000 PPB	100.0	42	TOLUENE-D8
46	95	546	27:18	36	1.167	A BB	132496.	50.000 PPB	100.0	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	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	1.356	1.00	50.00	50.00	1.864	1.864	1.00	19	1,2-DICHLOROETHANE-D4
42	22:18	0	0.953	1.00	50.00	50.00	1.151	1.151	1.00	42	TOLUENE-D8
46	27:18	0	1.167	1.00	50.00	50.00	0.796	0.796	1.00	46	BROMOFLUOROBENZENE

CKV050FHV (05/29/90 11:13) RFs loaded on MSDP1 5/30/90 10:26:58

CKV050FHV 2

05/29/90 1113
OWAC -- SPS

Sample: VSTD050 CRV#CKV-F
Conditions: GC/MS OWAC
Method: 8240 Matrix: STANDARD Curve: CKV 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	0.112	A BB	63134.	55.000 PPB		2	CHLOROMETHANE
3	94	30	1:30	1	0.188	A BB	87865.	55.000 PPB		3	BROMOMETHANE
4	62	41	2:03	1	0.256	A BB	66476.	50.000 PPB		4	VINYL CHLORIDE
5	64	55	2:45	1	0.344	A VB	44500.	55.000 PPB		5	CHLOROETHANE
6	84	92	4:36	1	0.575	A BB	93905.	50.000 PPB		6	METHYLENE CHLORIDE
7	43	112	5:36	1	0.700	A BV	14260.	50.000 PPB		7	ACETONE
8	56	113	5:39	1	0.706	A BB	7019.	50.000 PPB		8	ACROLEIN
9	53	126	6:18	1	0.788	A BB	16549.	50.000 PPB		9	ACRYLONITRILE
10	76	124	6:12	1	0.775	A BB	430791.	50.000 PPB		10	CARBON DISULFIDE
11	101	135	6:45	1	0.844	A BV	95470.	50.000 PPB		11	TRICHLOROFLUOROMETHANE
12	96	152	7:36	1	0.950	A BB	49279.	50.000 PPB		12	1,1-DICHLOROETHENE
14	63	177	8:51	1	1.106	A BV	108263.	50.000 PPB		14	1,1-DICHLOROETHANE
15	71	180	9:00	1	1.125	A BB	6766.	50.000 PPB		15	TETRAHYDROFURAN
16	96	194	9:42	1	1.212	A BB	60738.	50.000 PPB		16	1,2-DICHLOROETHENE (TOTAL)
17	83	202	10:06	1	1.262	A BB	125904.	50.000 PPB		17	CHLOROFORM
18	62	220	11:00	1	1.375	A BV	92835.	50.000 PPB		18	1,2-DICHLOROETHANE
20	72	225	11:15	1	1.406	A BB	4549.	50.000 PPB		20	2-BUTANONE
21	101	209	10:27	13	0.562	A BB	104215.	50.000 PPB		21	FREON TF
22	97	242	12:06	13	0.651	A BB	102024.	50.000 PPB		22	1,1,1-TRICHLOROETHANE
23	117	249	12:27	13	0.669	A VV	105559.	50.000 PPB		23	CARBON TETRACHLORIDE
24	43	262	13:06	13	0.704	A BV	124921.	50.000 PPB		24	VINYL ACETATE
25	83	262	13:06	13	0.704	A BB	113597.	50.000 PPB		25	BROMODICHLOROMETHANE
26	63	291	14:33	13	0.782	A BB	76834.	50.000 PPB		26	1,2-DICHLOROPROPANE
27	75	297	14:51	13	0.798	A BB	91405.	50.000 PPB		27	CIS-1,3-DICHLOROPROPENE
28	130	309	15:27	13	0.831	A BB	92045.	50.000 PPB		28	TRICHLOROETHENE
29	129	317	15:51	13	0.852	A BB	109269.	50.000 PPB		29	DIBROMODCHLOROMETHANE
30	98	366	18:18	13	0.984	A BB	39421.	50.000 PPB		30	METHYLCYCLOHEXANE
31	97	320	16:00	13	0.860	A VB	78474.	50.000 PPB		31	1,1,2-TRICHLOROETHANE
32	78	320	16:00	13	0.860	A BB	185992.	50.000 PPB		32	BENZENE
33	75	323	16:09	13	0.868	A BB	81251.	50.000 PPB		33	TRANS-1,3-DICHLOROPROPENE
34	63	345	17:15	13	0.927	A BB	40475.	50.000 PPB		34	2-CHLOROETHYLVINYLETHER
35	173	370	18:30	13	0.995	A BB	83230.	50.000 PPB		35	BROMOFORM
37	43	385	19:15	36	0.823	A BB	104939.	50.000 PPB		37	4-METHYL-2-PENTANONE
38	43	417	20:51	36	0.891	A BB	79801.	50.000 PPB		38	2-HEXANONE
39	83	416	20:48	36	0.889	A BV	144580.	50.000 PPB		39	1,1,2,2-TETRACHLOROETHANE
40	164	421	21:03	36	0.900	A BB	89784.	50.000 PPB		40	TETRACHLOROETHENE
41	56	439	21:57	36	0.938	A BB	49062.	50.000 PPB		41	BUTYL ACETATE
43	92	449	22:27	36	0.959	A BB	122393.	50.000 PPB		43	TOLUENE
44	112	470	23:30	36	1.004	A BB	178240.	50.000 PPB		44	CHLOROBENZENE
45	106	507	25:21	36	1.083	A BB	77703.	50.000 PPB		45	ETHYLBENZENE
47	104	571	28:33	36	1.220	A BV	152464.	50.000 PPB		47	STYRENE
48	106	577	28:51	36	1.233	A BV	98168.	50.000 PPB		48	M-XYLENE
49	106	591	29:33	36	1.263	A VB	53893.	30.000 PPB		49	O- & P-XYLENE
50	146	657	32:51	36	1.404	A BB	136413.	50.000 PPB		50	O-DICHLOROBENZENE
51	55	161	8:03	1	1.006	A BB	40042.	50.000 PPB		51	CYCLOPENTANE
52	106	577	28:51	36	1.233	A BV	98168.	50.000 PPB		52	XYLENE (TOTAL)
53	45	141	7:03	1	0.881	A BB	4350.	50.000 PPB		53	2-PROPANOL

CKV050FHV 3

05/29/90 1113
OWAC -- SPS

Sample: VSTD050 CRV#CKV-F
Conditions: GC/MS OWAC
Method: 8240 Matrix: STANDARD Curve: CKV Submitted by: AQUTEC
Volume: 5.000 ml

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	0:54	0	0.112	1.00	55.00	55.00	1.259	1.259	1.00	2	CHLOROMETHANE
3	1:30	0	0.187	1.00	55.00	55.00	1.752	1.752	1.00	3	BROMOMETHANE
4	2:03	0	0.256	1.00	50.00	50.00	1.458	1.458	1.00	4	VINYL CHLORIDE
5	2:45	0	0.344	1.00	55.00	55.00	0.887	0.887	1.00	5	CHLOROETHANE
6	4:36	0	0.575	1.00	50.00	50.00	2.059	2.059	1.00	6	METHYLENE CHLORIDE
7	5:36	0	0.700	1.00	50.00	50.00	0.313	0.313	1.00	7	ACETONE
8	5:39	0	0.706	1.00	50.00	50.00	0.154	0.154	1.00	8	ACROLEIN
9	6:18	0	0.788	1.00	50.00	50.00	0.363	0.363	1.00	9	ACRYLONITRILE
10	6:12	0	0.775	1.00	50.00	50.00	9.447	9.447	1.00	10	CARBON DISULFIDE
11	6:45	0	0.844	1.00	50.00	50.00	2.094	2.094	1.00	11	TRICHLOROFLUOROMETHANE
12	7:36	0	0.950	1.00	50.00	50.00	1.081	1.081	1.00	12	1,1-DICHLOROETHENE
14	8:51	0	1.106	1.00	50.00	50.00	2.374	2.374	1.00	14	1,1-DICHLOROETHANE
15	9:00	0	1.125	1.00	50.00	50.00	0.148	0.148	1.00	15	TETRAHYDROFURAN
16	9:42	0	1.212	1.00	50.00	50.00	1.332	1.332	1.00	16	1,2-DICHLOROETHENE (TOTAL)
17	10:06	0	1.262	1.00	50.00	50.00	2.761	2.761	1.00	17	CHLOROFORM
18	11:00	0	1.375	1.00	50.00	50.00	2.036	2.036	1.00	18	1,2-DICHLOROETHANE
20	11:15	0	1.406	1.00	50.00	50.00	0.100	0.100	1.00	20	2-BUTANONE
21	10:27	0	0.562	1.00	50.00	50.00	0.515	0.515	1.00	21	FREON TF
22	12:06	0	0.651	1.00	50.00	50.00	0.505	0.505	1.00	22	1,1,1-TRICHLOROETHANE
23	12:27	0	0.669	1.00	50.00	50.00	0.522	0.522	1.00	23	CARBON TETRACHLORIDE
24	13:06	0	0.704	1.00	50.00	50.00	0.618	0.618	1.00	24	VINYL ACETATE
25	13:06	0	0.704	1.00	50.00	50.00	0.562	0.562	1.00	25	BROMODICHLOROMETHANE
26	14:33	0	0.782	1.00	50.00	50.00	0.380	0.380	1.00	26	1,2-DICHLOROPROPANE
27	14:51	0	0.798	1.00	50.00	50.00	0.452	0.452	1.00	27	CIS-1,3-DICHLOROPROPENE
28	15:27	0	0.831	1.00	50.00	50.00	0.455	0.455	1.00	28	TRICHLOROETHENE
29	15:51	0	0.852	1.00	50.00	50.00	0.540	0.540	1.00	29	DIBROMOCHLOROMETHANE
30	18:18	0	0.984	1.00	50.00	50.00	0.195	0.195	1.00	30	METHYLCYCLOHEXANE
31	16:00	0	0.860	1.00	50.00	50.00	0.388	0.388	1.00	31	1,1,2-TRICHLOROETHANE
32	16:00	0	0.860	1.00	50.00	50.00	0.920	0.920	1.00	32	BENZENE
33	16:09	0	0.868	1.00	50.00	50.00	0.402	0.402	1.00	33	TRANS-1,3-DICHLOROPROPENE
34	17:15	0	0.927	1.00	50.00	50.00	0.200	0.200	1.00	34	2-CHLOROETHYLVINYLETHER
35	18:30	0	0.995	1.00	50.00	50.00	0.412	0.412	1.00	35	BROMOFORM
37	19:15	0	0.823	1.00	50.00	50.00	0.631	0.631	1.00	37	4-METHYL-2-PENTANONE
38	20:51	0	0.891	1.00	50.00	50.00	0.480	0.480	1.00	38	2-HEXANONE
39	20:48	0	0.889	1.00	50.00	50.00	0.869	0.869	1.00	39	1,1,2,2-TETRACHLOROETHANE
40	21:03	0	0.900	1.00	50.00	50.00	0.540	0.540	1.00	40	TETRACHLOROETHENE
41	21:57	0	0.938	1.00	50.00	50.00	0.295	0.295	1.00	41	BUTYL ACETATE
43	22:27	0	0.959	1.00	50.00	50.00	0.736	0.736	1.00	43	TOLUENE
44	23:30	0	1.004	1.00	50.00	50.00	1.071	1.071	1.00	44	CHLOROBENZENE
45	25:21	0	1.083	1.00	50.00	50.00	0.467	0.467	1.00	45	ETHYLBENZENE
47	28:33	0	1.220	1.00	50.00	50.00	0.916	0.916	1.00	47	STYRENE
48	28:51	0	1.233	1.00	50.00	50.00	0.590	0.590	1.00	48	M-XYLENE
49	29:33	0	1.263	1.00	30.00	30.00	0.540	0.540	1.00	49	O- & P-XYLENE
50	32:51	0	1.404	1.00	50.00	50.00	0.820	0.820	1.00	50	O-DICHLOROBENZENE
51	8:03	0	1.006	1.00	50.00	50.00	0.878	0.878	1.00	51	CYCLOPENTANE
52	28:51	0	1.233	1.00	50.00	50.00	0.590	0.590	1.00	52	XYLENE (TOTAL)
53	7:03	0	0.881	1.00	50.00	50.00	0.095	0.095	1.00	53	2-PROPANOL

PROCEDURE: TCA DIAGNOSTIC REPORT 5/29/90 11:58:15
DATA FILE: CKV050FHV
REFERENCE: JTAB11
NAME LIST: UM INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: UMRET1

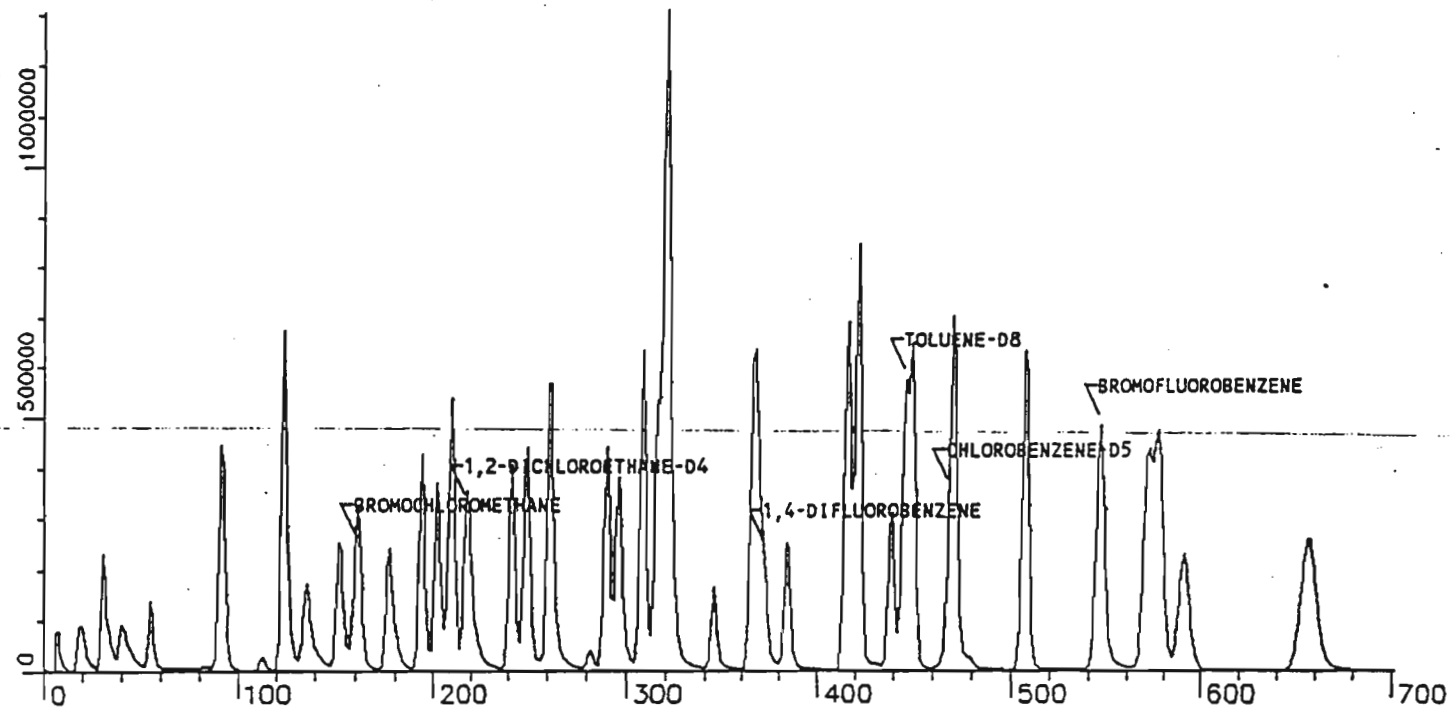
STANDARDS PROC	STANDARDS USED	STANDARDS POSS	STANDARDS RMS	PLUS UNKNOWNS PROC	PLUS UNKNOWNS USED	PLUS UNKNOWNS POSS	PLUS UNKNOWNS RMS	LIST NAMES STANDARD/UNKNOWN
1	1	1	0	13	11	1	110	UMRET1/UMUNK1
2	2	1	0	14	13	12	79	UMRET2/UMUNK2
2	2	1	0	13	13	4	66	UMRET2/UMUNK3
2	2	1	0	9	9	1	53	UMRET3/UMUNK4
1	1	1	0	8	8	2	86	UMRET4/UMUNK5

52 COMPOUNDS PROCESSED, 49 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	988	.	128	160	.	1
2	UM	2	-18	18	18	.	1	993	.	50	18	.	1
3	UM	3	-30	30	30	.	1	991	.	94	30	.	1
4	UM	4	-40	40	41	1	1	998	.	62	41	.	1
5	UM	5	-55	55	55	-1	1	996	.	64	55	.	1
6	UM	6	-89	90	92	2	1	988	.	84	92	.	1
7	UM	7	-113	114	112	-2	1	983	.	43	112	.	1
8	UM	8	-112	113	113	.	1	998	.	56	113	.	1
9	UM	9	-125	126	.	.	.	.	.	53	126	.	1
10	UM	10	-122	123	124	1	1	999	.	76	124	.	1
11	UM	11	-134	135	135	.	1	994	.	101	135	.	1
12	UM	12	-151	152	152	.	1	992	.	96	152	.	1
13	UM	53	-144	145	.	.	.	.	.	45	.	.	.
14	UM	13	-371	372	372	.	1	999	.	114	372	.	1
15	UM	51	-160	161	161	.	1	994	.	55	161	.	1
16	UM	14	-176	177	177	.	1	991	.	63	177	.	1
17	UM	15	-180	181	.	.	.	.	.	71	180	.	1
18	UM	16	-193	194	194	.	1	996	.	96	194	.	1
19	UM	17	-202	203	203	.	2	996	.	83	202	-1	1
20	UM	18	-219	220	219	-1	1	978	.	62	220	1	1
21	UM	19	-217	218	217	-1	1	998	.	65	217	.	1
22	UM	20	-224	225	225	.	3	998	.	72	225	.	1
23	UM	21	-210	211	209	-2	1	1000	.	101	209	.	1
24	UM	22	-242	242	242	.	1	993	.	97	242	.	1
25	UM	23	-250	250	250	.	2	987	.	117	249	-1	1
26	UM	24	-262	262	262	.	1	996	.	43	262	.	1
27	UM	25	-262	263	262	-1	1	992	.	83	262	.	1
28	UM	26	-291	292	291	-1	1	980	.	63	291	.	1
29	UM	27	-297	298	297	-1	2	971	.	75	297	.	1
30	UM	28	-309	309	309	.	1	996	.	130	309	.	1
31	UM	29	-316	316	317	1	1	997	.	129	317	.	1
32	UM	30	-365	365	366	1	1	995	.	98	366	.	1
33	UM	31	-320	320	320	.	1	983	.	97	320	.	1
34	UM	32	-320	320	320	.	1	990	.	78	320	.	1
35	UM	33	-322	322	322	.	2	994	.	75	323	1	1
36	UM	34	-345	345	345	.	1	989	.	63	345	.	1
37	UM	35	-369	369	370	1	1	993	.	173	370	.	1
38	UM	36	-467	468	468	.	1	982	.	117	468	.	1
39	UM	37	-384	385	385	.	1	989	.	43	385	.	1
40	UM	38	-416	417	417	.	1	956	.	43	417	.	1
41	UM	39	-415	416	416	.	1	997	.	83	416	.	1
42	UM	40	-421	422	421	-1	1	987	.	164	421	.	1
43	UM	41	-438	439	439	.	1	996	.	56	439	.	1
44	UM	42	-444	445	446	1	1	992	.	98	446	.	1
45	UM	43	-448	449	449	.	1	985	.	92	449	.	1
46	UM	44	-469	470	470	.	1	991	.	112	470	.	1
47	UM	45	-506	507	507	.	1	989	.	106	507	.	1
48	UM	46	-545	547	546	-1	1	995	.	95	546	.	1
49	UM	47	-569	571	571	.	1	995	.	104	571	.	1
50	UM	48	-575	577	577	.	1	993	.	106	577	.	1
51	UM	49	-589	591	590	-1	2	987	.	106	591	1	1
52	UM	50	-653	655	657	2	1	992	.	146	657	.	1

CKW200HV 1
05/29/90 1232
OWAC -- SPS

Sample: VSTD200 CRV#CKW
Conditions: GC/MS OWAC
Method: 8240 Matrix: STANDARD Curve: CKW Submitted by: AQUTEC
Volume: 5.000 ml



No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
1	128	160	8:00	1	1.000	A BB	46276.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	372	18:36	13	1.000	A BB	207202.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	468	23:24	36	1.000	A BB	174255.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	217	10:51	1	1.356	A BB	308316.	200.000 PPB	400.0	19	1,2-DICHLOROETHANE-D4
42	98	446	22:18	36	0.953	A BV	702780.	200.000 PPB	400.0	42	TOLUENE-D8
46	95	546	27:18	36	1.167	A BB	471663.	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	8:00	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	1.356	1.00	200.00	200.00	1.666	1.666	1.00	19	1,2-DICHLOROETHANE-D4
42	22:18	0	0.953	1.00	200.00	200.00	1.008	1.008	1.00	42	TOLUENE-D8
46	27:18	0	1.167	1.00	200.00	200.00	0.677	0.677	1.00	46	BROMOFLUOROBENZENE

CKW200HV (05/29/90 12:32) RFs loaded on MSDP1 5/30/90 10:30:14

CKW200HV 2

05/29/90 1232
OWAC -- SPS

Sample: VSTD200 CRV#CKW
Conditions: GC/MS OWAC
Method: 8240 Matrix: STANDARD Curve: CKW Submitted by: AQUTEC
Volume: 5.000 ml

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
2	50	19	0:57	1	0.119	A BV	232455.	220.000 PPB		2	CHLOROMETHANE
3	94	31	1:33	1	0.194	A BB	274248.	220.000 PPB		3	BROMOMETHANE
4	62	41	2:03	1	0.256	A BB	262927.	200.000 PPB		4	VINYL CHLORIDE
5	64	55	2:45	1	0.344	A VB	168963.	220.000 PPB		5	CHLOROETHANE
6	84	91	4:33	1	0.569	A BB	328655.	200.000 PPB		6	METHYLENE CHLORIDE
7	43	112	5:36	1	0.700	A BB	34137.	200.000 PPB		7	ACETONE
8	56	112	5:36	1	0.700	A BB	27492.	200.000 PPB		8	ACROLEIN
9	53	125	6:15	1	0.781	A BB	61886.	200.000 PPB		9	ACRYLONITRILE
10	76	124	6:12	1	0.775	A BB	1867440.	200.000 PPB		10	CARBON DISULFIDE
11	101	136	6:48	1	0.850	A BB	358830.	200.000 PPB		11	TRICHLOROFLUOROMETHANE
12	96	152	7:36	1	0.950	A BV	188170.	200.000 PPB		12	1,1-DICHLOROETHENE
14	63	177	8:51	1	1.106	A BV	408065.	200.000 PPB		14	1,1-DICHLOROETHANE
15	71	180	9:00	1	1.125	A BB	25743.	200.000 PPB		15	TETRAHYDROFURAN
16	96	194	9:42	1	1.212	A BV	239101.	200.000 PPB		16	1,2-DICHLOROETHENE (TOTAL)
17	83	202	10:06	1	1.262	A BB	492167.	200.000 PPB		17	CHLOROFORM
18	62	219	10:57	1	1.369	A BV	362319.	200.000 PPB		18	1,2-DICHLOROETHANE
20	72	224	11:12	1	1.400	A BB	13543.	200.000 PPB		20	2-BUTANONE
21	101	210	10:30	13	0.565	A BB	406764.	200.000 PPB		21	FREON TF
22	97	242	12:06	13	0.651	A BB	432184.	200.000 PPB		22	1,1,1-TRICHLOROETHANE
23	117	250	12:30	13	0.672	A BB	526064.	200.000 PPB		23	CARBON TETRACHLORIDE
24	43	261	13:03	13	0.702	A BB	569759.	200.000 PPB		24	VINYL ACETATE
25	83	262	13:06	13	0.704	A BB	497614.	200.000 PPB		25	BROMODICHLOROMETHANE
26	63	290	14:30	13	0.780	A BV	311802.	200.000 PPB		26	1,2-DICHLOROPROPANE
27	75	296	14:48	13	0.796	A BB	411407.	200.000 PPB		27	CIS-1,3-DICHLOROPROPENE
28	130	309	15:27	13	0.831	A BB	373914.	200.000 PPB		28	TRICHLOROETHENE
29	129	316	15:48	13	0.849	A BB	521333.	200.000 PPB		29	DIBROMOCHLOROMETHANE
30	98	366	18:18	13	0.984	A BB	153989.	200.000 PPB		30	METHYLCYCLOHEXANE
31	97	320	16:00	13	0.860	A VB	324461.	200.000 PPB		31	1,1,2-TRICHLOROETHANE
32	78	320	16:00	13	0.860	A BV	797928.	200.000 PPB		32	BENZENE
33	75	321	16:03	13	0.863	A BB	408927.	200.000 PPB		33	TRANS-1,3-DICHLOROPROPENE
34	63	345	17:15	13	0.927	A BB	128410.	200.000 PPB		34	2-CHLOROETHYLVINYLETHER
35	173	369	18:27	13	0.992	A BB	401291.	200.000 PPB		35	BROMOFORM
37	43	384	19:12	36	0.821	A BB	421792.	200.000 PPB		37	4-METHYL-2-PENTANONE
38	43	416	20:48	36	0.889	A BB	349852.	200.000 PPB		38	2-HEXANONE
39	83	415	20:45	36	0.887	A BB	612014.	200.000 PPB		39	1,1,2,2-TETRACHLOROETHANE
40	164	421	21:03	36	0.900	A BB	364297.	200.000 PPB		40	TETRACHLOROETHENE
41	56	439	21:57	36	0.938	A BB	198746.	200.000 PPB		41	BUTYL ACETATE
43	92	449	22:27	36	0.959	A BB	497445.	200.000 PPB		43	TOLUENE
44	112	470	23:30	36	1.004	A BB	705217.	200.000 PPB		44	CHLOROBENZENE
45	106	507	25:21	36	1.083	A BB	311698.	200.000 PPB		45	ETHYLBENZENE
47	104	571	28:33	36	1.220	A BV	622041.	200.000 PPB		47	STYRENE
48	106	577	28:51	36	1.233	A BV	396393.	200.000 PPB		48	M-XYLENE
49	106	591	29:33	36	1.263	A VB	210716.	120.000 PPB		49	O- & P-XYLENE
50	146	656	32:48	36	1.402	A BB	543236.	200.000 PPB		50	O-DICHLOROBENZENE
51	55	161	8:03	1	1.006	A BB	148729.	200.000 PPB		51	CYCLOPENTANE
52	106	577	28:51	36	1.233	A BV	396393.	200.000 PPB		52	XYLENE (TOTAL)
53	45	142	7:06	1	0.887	A BV	11749.	200.000 PPB		53	2-PROPANOL

CKW200HV 3

05/29/90 1232
OWAC -- SPS

Sample: VSTD200 CRV#CKW
Conditions: GC/MS OWAC
Method: 8240 Matrix: STANDARD Curve: CKW Submitted by: AQUTEC
Volume: 5.000 ml

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	0:57	0	0.119	1.00	220.00	220.00	1.142	1.142	1.00	2	CHLOROMETHANE
3	1:33	0	0.194	1.00	220.00	220.00	1.347	1.347	1.00	3	BROMOMETHANE
4	2:03	0	0.256	1.00	200.00	200.00	1.420	1.420	1.00	4	VINYL CHLORIDE
5	2:45	0	0.344	1.00	220.00	220.00	0.830	0.830	1.00	5	CHLOROETHANE
6	4:33	0	0.569	1.00	200.00	200.00	1.776	1.776	1.00	6	METHYLENE CHLORIDE
7	5:36	0	0.700	1.00	200.00	200.00	0.184	0.184	1.00	7	ACETONE
8	5:36	0	0.700	1.00	200.00	200.00	0.149	0.149	1.00	8	ACROLEIN
9	6:15	0	0.781	1.00	200.00	200.00	0.334	0.334	1.00	9	ACRYLONITRILE
10	6:12	0	0.775	1.00	200.00	200.00	10.089	10.089	1.00	10	CARBON DISULFIDE
11	6:48	0	0.850	1.00	200.00	200.00	1.939	1.939	1.00	11	TRICHLOROFLUOROMETHANE
12	7:36	0	0.950	1.00	200.00	200.00	1.017	1.017	1.00	12	1,1-DICHLOROETHENE
14	8:51	0	1.106	1.00	200.00	200.00	2.205	2.205	1.00	14	1,1-DICHLOROETHANE
15	9:00	0	1.125	1.00	200.00	200.00	0.139	0.139	1.00	15	TETRAHYDROFURAN
16	9:42	0	1.212	1.00	200.00	200.00	1.292	1.292	1.00	16	1,2-DICHLOROETHENE (TOTAL)
17	10:06	0	1.262	1.00	200.00	200.00	2.659	2.659	1.00	17	CHLOROFORM
18	10:57	0	1.369	1.00	200.00	200.00	1.957	1.957	1.00	18	1,2-DICHLOROETHANE
20	11:12	0	1.400	1.00	200.00	200.00	0.073	0.073	1.00	20	2-BUTANONE
21	10:30	0	0.565	1.00	200.00	200.00	0.491	0.491	1.00	21	FREON TF
22	12:06	0	0.651	1.00	200.00	200.00	0.521	0.521	1.00	22	1,1,1-TRICHLOROETHANE
23	12:30	0	0.672	1.00	200.00	200.00	0.635	0.635	1.00	23	CARBON TETRACHLORIDE
24	13:03	0	0.702	1.00	200.00	200.00	0.687	0.687	1.00	24	VINYL ACETATE
25	13:06	0	0.704	1.00	200.00	200.00	0.600	0.600	1.00	25	BROMODICHLOROMETHANE
26	14:30	0	0.780	1.00	200.00	200.00	0.376	0.376	1.00	26	1,2-DICHLOROPROPANE
27	14:48	0	0.796	1.00	200.00	200.00	0.496	0.496	1.00	27	CIS-1,3-DICHLOROPROPENE
28	15:27	0	0.831	1.00	200.00	200.00	0.451	0.451	1.00	28	TRICHLOROETHENE
29	15:48	0	0.849	1.00	200.00	200.00	0.629	0.629	1.00	29	DIBROMOCHLOROMETHANE
30	18:18	0	0.984	1.00	200.00	200.00	0.186	0.186	1.00	30	METHYLCYCLOHEXANE
31	16:00	0	0.860	1.00	200.00	200.00	0.391	0.391	1.00	31	1,1,2-TRICHLOROETHANE
32	16:00	0	0.860	1.00	200.00	200.00	0.963	0.963	1.00	32	BENZENE
33	16:03	0	0.863	1.00	200.00	200.00	0.493	0.493	1.00	33	TRANS-1,3-DICHLOROPROPENE
34	17:15	0	0.927	1.00	200.00	200.00	0.155	0.155	1.00	34	2-CHLOROETHYLVINYLETHER
35	18:27	0	0.992	1.00	200.00	200.00	0.484	0.484	1.00	35	BROMOFORM
37	19:12	0	0.821	1.00	200.00	200.00	0.605	0.605	1.00	37	4-METHYL-2-PENTANONE
38	20:48	0	0.889	1.00	200.00	200.00	0.502	0.502	1.00	38	2-HEXANONE
39	20:45	0	0.887	1.00	200.00	200.00	0.878	0.878	1.00	39	1,1,2,2-TETRACHLOROETHANE
40	21:03	0	0.900	1.00	200.00	200.00	0.523	0.523	1.00	40	TETRACHLOROETHENE
41	21:57	0	0.938	1.00	200.00	200.00	0.285	0.285	1.00	41	BUTYL ACETATE
43	22:27	0	0.959	1.00	200.00	200.00	0.714	0.714	1.00	43	TOLUENE
44	23:30	0	1.004	1.00	200.00	200.00	1.012	1.012	1.00	44	CHLOROBENZENE
45	25:21	0	1.083	1.00	200.00	200.00	0.447	0.447	1.00	45	ETHYLBENZENE
47	28:33	0	1.220	1.00	200.00	200.00	0.892	0.892	1.00	47	STYRENE
48	28:51	0	1.233	1.00	200.00	200.00	0.569	0.569	1.00	48	M-XYLENE
49	29:33	0	1.263	1.00	120.00	120.00	0.504	0.504	1.00	49	O- & P-XYLENE
50	32:48	0	1.402	1.00	200.00	200.00	0.779	0.779	1.00	50	O-DICHLOROBENZENE
51	8:03	0	1.006	1.00	200.00	200.00	0.803	0.803	1.00	51	CYCLOPENTANE
52	28:51	0	1.233	1.00	200.00	200.00	0.569	0.569	1.00	52	XYLENE (TOTAL)
53	7:06	0	0.887	1.00	200.00	200.00	0.063	0.063	1.00	53	2-PROPANOL

PROCEDURE: TCA DIAGNOSTIC REPORT 5/29/90 13:13:48
DATA FILE: CKW200HV
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	12	2	137	UMRET1/UMUNK1
2	2	1	0	14	13	48	76	UMRET2/UMUNK2
2	2	1	0	13	13	4	86	UMRET2/UMUNK3
2	2	1	0	9	9	2	68	UMRET3/UMUNK4
1	1	1	0	8	8	2	46	UMRET4/UMUNK5

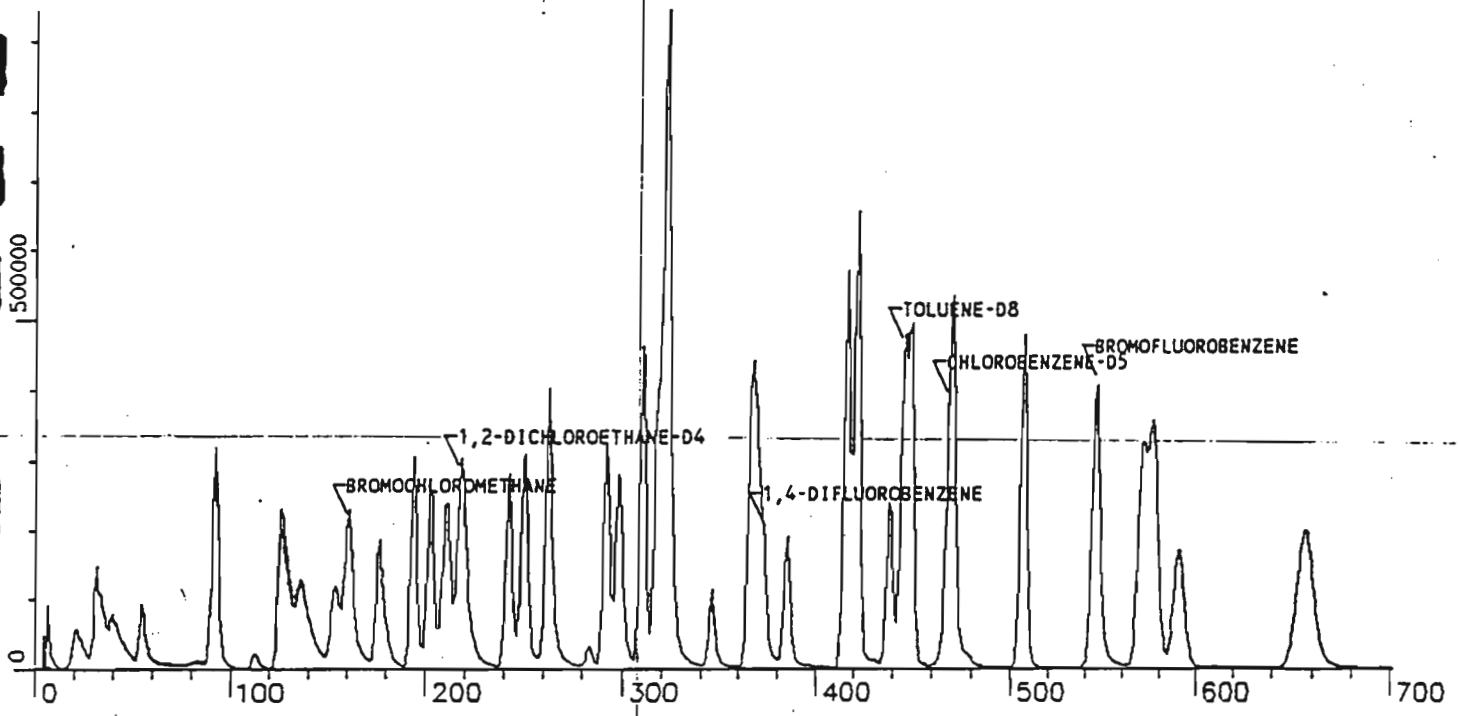
52 COMPOUNDS PROCESSED, 50 FOUND

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	986	.	128	160	.	
2	UM	2	-18	19	19	.	2	992	.	50	19	.	
3	UM	3	-30	31	31	.	1	986	.	94	31	.	
4	UM	4	-40	41	40	-1	1	998	.	62	41	1	
5	UM	5	-55	56	55	-1	1	996	.	64	55	.	
6	UM	6	-89	90	91	1	1	988	.	84	91	.	
7	UM	7	-113	114	112	-2	1	983	.	43	112	.	
8	UM	8	-112	113	112	-1	1	1000	.	56	112	.	
9	UM	9	-125	126	.	.	.	.	.	53	125	.	
10	UM	10	-122	123	124	1	1	999	.	76	124	.	
11	UM	11	-134	135	136	1	1	997	.	101	136	.	
12	UM	12	-151	152	152	.	1	990	.	96	152	.	
13	UM	53	-144	145	142	-3	1	916	.	45	142	.	
14	UM	13	-371	372	372	.	1	997	.	114	372	.	
15	UM	51	-160	161	161	.	1	994	.	55	161	.	
16	UM	14	-176	177	177	.	2	995	.	63	177	.	
17	UM	15	-180	181	.	.	.	.	.	71	180	.	
18	UM	16	-193	194	194	.	2	994	.	96	194	.	
19	UM	17	-202	202	202	.	2	992	.	83	202	.	
20	UM	18	-219	219	219	.	1	982	.	62	219	.	
21	UM	19	-217	217	217	.	1	998	.	65	217	.	
22	UM	20	-224	224	224	.	3	1000	.	72	224	.	
23	UM	21	-210	210	210	.	1	997	.	101	210	.	
24	UM	22	-242	242	242	.	1	994	.	97	242	.	
25	UM	23	-250	250	250	.	2	985	.	117	250	.	
26	UM	24	-262	262	261	-1	1	997	.	43	261	.	
27	UM	25	-262	262	262	.	1	990	.	83	262	.	
28	UM	26	-291	291	290	-1	1	978	.	63	290	.	
29	UM	27	-297	297	296	-1	2	978	.	75	296	.	
30	UM	28	-309	309	309	.	1	996	.	130	309	.	
31	UM	29	-316	316	316	.	1	991	.	129	316	.	
32	UM	30	-365	365	366	1	1	998	.	98	366	.	
33	UM	31	-320	320	320	.	1	993	.	97	320	.	
34	UM	32	-320	320	320	.	1	993	.	78	320	.	
35	UM	33	-322	322	321	-1	2	993	.	75	321	.	
36	UM	34	-345	345	345	.	1	990	.	63	345	.	
37	UM	35	-369	369	369	.	1	995	.	173	369	.	
38	UM	36	-467	468	468	.	1	997	.	117	468	.	
39	UM	37	-384	384	384	.	2	994	.	43	384	.	
40	UM	38	-416	417	416	-1	1	953	.	43	416	.	
41	UM	39	-415	416	415	-1	1	996	.	83	415	.	
42	UM	40	-421	422	421	-1	1	986	.	164	421	.	
43	UM	41	-438	439	439	.	1	996	.	56	439	.	
44	UM	42	-444	445	446	1	1	989	.	98	446	.	
45	UM	43	-448	449	449	.	1	988	.	92	449	.	
46	UM	44	-469	470	470	.	1	990	.	112	470	.	
47	UM	45	-506	507	507	.	1	990	.	106	507	.	
48	UM	46	-545	547	546	-1	1	997	.	95	546	.	
49	UM	47	-569	571	571	.	1	996	.	104	571	.	
50	UM	48	-575	577	577	.	1	994	.	106	577	.	
51	UM	49	-589	591	591	.	2	989	.	106	591	.	
52	UM	50	-653	655	656	1	1	995	.	146	656	.	1

CKW150HV 1

05/29/90 1338
OWAC -- SPS

Sample: VSTD150 CRV#CKW
Conditions: GC/MS OWAC
Method: 8240 Matrix: STANDARD Curve: CKW Submitted by: AQUTEC
Volume: 5.000 ml



No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
1	128	160	8:00	1	1.000	A BB	45236.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	373	18:39	13	1.000	A BB	200037.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	468	23:24	36	1.000	A BB	166449.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	217	10:51	1	1.356	A BB	254844.	150.000 PPB	300.0	19	1,2-DICHLOROETHANE-D4
42	98	445	22:15	36	0.951	A BB	590557.	150.000 PPB	300.0	42	TOLUENE-D8
46	95	546	27:18	36	1.167	A BB	407479.	150.000 PPB	300.0	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	18:39	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	1.356	1.00	150.00	150.00	1.878	1.878	1.00	19	1,2-DICHLOROETHANE-D4
42	22:15	0	0.951	1.00	150.00	150.00	1.183	1.183	1.00	42	TOLUENE-D8
46	27:18	0	1.167	1.00	150.00	150.00	0.816	0.816	1.00	46	BROMOFLUOROBENZENE

CKW150HV (05/29/90 13:38) RFs loaded on OWAC 5/29/90 14:33:14

CKW150HV 2
05/29/90 1338
OWAC -- SPS

Sample: VSTD150 CRV#CKW
Conditions: GC/MS OWAC
Method: 8240 Matrix: STANDARD Curve: CKW Submitted by: AQUTEC
Volume: 5.000 ml

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
2	50	21	1:03	1	0.131	A BB	175999.	165.000 PPB		2	CHLOROMETHANE
3	94	32	1:36	1	0.200	A BB	264407.	165.000 PPB		3	BROMOMETHANE
4	62	40	2:00	1	0.250	A BB	219187.	150.000 PPB		4	VINYL CHLORIDE
5	64	55	2:45	1	0.344	A VB	144059.	165.000 PPB		5	CHLOROETHANE
6	84	92	4:36	1	0.575	A BB	253021.	150.000 PPB		6	METHYLENE CHLORIDE
7	43	112	5:36	1	0.700	A BB	34275.	150.000 PPB		7	ACETONE
8	56	113	5:39	1	0.706	A BB	19088.	150.000 PPB		8	ACROLEIN
9	53	126	6:18	1	0.788	A BB	46781.	150.000 PPB		9	ACRYLONITRILE
10	76	126	6:18	1	0.788	A BB	1286750.	150.000 PPB		10	CARBON DISULFIDE
11	101	137	6:51	1	0.856	A BB	270260.	150.000 PPB		11	TRICHLOROFLUOROMETHANE
12	96	153	7:39	1	0.956	A BB	142270.	150.000 PPB		12	1,1-DICHLOROETHENE
14	63	177	8:51	1	1.106	A VV	311449.	150.000 PPB		14	1,1-DICHLOROETHANE
15	71	180	9:00	1	1.125	A BB	20248.	150.000 PPB		15	TETRAHYDROFURAN
16	96	194	9:42	1	1.212	A BV	172686.	150.000 PPB		16	1,2-DICHLOROETHENE (TOTAL)
17	83	202	10:06	1	1.262	A BB	360601.	150.000 PPB		17	CHLOROFORM
18	62	219	10:57	1	1.369	A BB	275448.	150.000 PPB		18	1,2-DICHLOROETHANE
20	72	225	11:15	1	1.406	A BB	10649.	150.000 PPB		20	2-BUTANONE
21	101	211	10:33	13	0.566	A BB	271018.	150.000 PPB		21	FREON TF
22	97	242	12:06	13	0.649	A BB	319188.	150.000 PPB		22	1,1,1-TRICHLOROETHANE
23	117	250	12:30	13	0.670	A VB	347755.	150.000 PPB		23	CARBON TETRACHLORIDE
24	43	263	13:09	13	0.705	A BV	387171.	150.000 PPB		24	VINYL ACETATE
25	83	263	13:09	13	0.705	A BB	351877.	150.000 PPB		25	BROMODICHLOROMETHANE
26	63	292	14:36	13	0.783	A BV	231627.	150.000 PPB		26	1,2-DICHLOROPROPANE
27	75	298	14:54	13	0.799	A BB	313516.	150.000 PPB		27	CIS-1,3-DICHLOROPROPENE
28	130	310	15:30	13	0.831	A BB	278042.	150.000 PPB		28	TRICHLOROETHENE
29	129	318	15:54	13	0.853	A BB	386992.	150.000 PPB		29	DIBROMOCHLOROMETHANE
30	98	366	18:18	13	0.981	A BB	114348.	150.000 PPB		30	METHYLCYCLOHEXANE
31	97	321	16:03	13	0.861	A VB	238819.	150.000 PPB		31	1,1,2-TRICHLOROETHANE
32	78	322	16:06	13	0.863	A BV	573119.	150.000 PPB		32	BENZENE
33	75	323	16:09	13	0.866	A BB	293919.	150.000 PPB		33	TRANS-1,3-DICHLOROPROPENE
34	63	346	17:18	13	0.928	A BB	87835.	150.000 PPB		34	2-CHLOROETHYLVINYLETHER
35	173	369	18:27	13	0.989	A BB	319638.	150.000 PPB		35	BROMOFORM
37	43	385	19:15	36	0.823	A BB	307278.	150.000 PPB		37	4-METHYL-2-PENTANONE
38	43	416	20:48	36	0.889	A BB	283661.	150.000 PPB		38	2-HEXANONE
39	83	416	20:48	36	0.889	A BV	458191.	150.000 PPB		39	1,1,2,2-TETRACHLOROETHANE
40	164	421	21:03	36	0.900	A BB	276702.	150.000 PPB		40	TETRACHLOROETHENE
41	56	438	21:54	36	0.936	A BB	149897.	150.000 PPB		41	BUTYL ACETATE
43	92	449	22:27	36	0.959	A BB	375644.	150.000 PPB		43	TOLUENE
44	112	470	23:30	36	1.004	A BV	532413.	150.000 PPB		44	CHLOROBENZENE
45	106	507	25:21	36	1.083	A BB	236341.	150.000 PPB		45	ETHYLBENZENE
47	104	571	28:33	36	1.220	A BV	466130.	150.000 PPB		47	STYRENE
48	106	577	28:51	36	1.233	A BV	297607.	150.000 PPB		48	M-XYLENE
49	106	590	29:30	36	1.261	A VB	159471.	90.000 PPB		49	O- & P-XYLENE
50	146	656	32:48	36	1.402	A BB	422781.	150.000 PPB		50	O-DICHLOROBENZENE
51	55	161	8:03	1	1.006	A BB	111163.	150.000 PPB		51	CYCLOPENTANE
52	106	577	28:51	36	1.233	A BV	297607.	150.000 PPB		52	XYLENE (TOTAL)
53	45	142	7:06	1	0.887	A VV	10875.	150.000 PPB		53	2-PROPANOL

CKW150HV 3

05/29/90 1338
OWAC -- SPS

Sample: VSTD150 CRV#CKW
Conditions: GC/MS OWAC
Method: 8240 Matrix: STANDARD Curve: CKW Submitted by: AQUTEC
Volume: 5.000 ml

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	1:03	0	0.131	1.00	165.00	165.00	1.179	1.179	1.00	2	CHLOROMETHANE
3	1:36	0	0.200	1.00	165.00	165.00	1.771	1.771	1.00	3	BROMOMETHANE
4	2:00	0	0.250	1.00	150.00	150.00	1.615	1.615	1.00	4	VINYL CHLORIDE
5	2:45	0	0.344	1.00	165.00	165.00	0.965	0.965	1.00	5	CHLOROETHANE
6	4:36	0	0.575	1.00	150.00	150.00	1.864	1.864	1.00	6	METHYLENE CHLORIDE
7	5:36	0	0.700	1.00	150.00	150.00	0.253	0.253	1.00	7	ACETONE
8	5:39	0	0.706	1.00	150.00	150.00	0.141	0.141	1.00	8	ACROLEIN
9	6:18	0	0.788	1.00	150.00	150.00	0.345	0.345	1.00	9	ACRYLONITRILE
10	6:18	0	0.788	1.00	150.00	150.00	9.482	9.482	1.00	10	CARBON DISULFIDE
11	6:51	0	0.856	1.00	150.00	150.00	1.991	1.991	1.00	11	TRICHLOROFLUOROMETHANE
12	7:39	0	0.956	1.00	150.00	150.00	1.048	1.048	1.00	12	1,1-DICHLOROETHENE
14	8:51	0	1.106	1.00	150.00	150.00	2.295	2.295	1.00	14	1,1-DICHLOROETHANE
15	9:00	0	1.125	1.00	150.00	150.00	0.149	0.149	1.00	15	TETRAHYDROFURAN
16	9:42	0	1.212	1.00	150.00	150.00	1.272	1.272	1.00	16	1,2-DICHLOROETHENE (TOTAL)
17	10:06	0	1.262	1.00	150.00	150.00	2.657	2.657	1.00	17	CHLOROFORM
18	10:57	0	1.369	1.00	150.00	150.00	2.030	2.030	1.00	18	1,2-DICHLOROETHANE
20	11:15	0	1.406	1.00	150.00	150.00	0.078	0.078	1.00	20	2-BUTANONE
21	10:33	0	0.566	1.00	150.00	150.00	0.452	0.452	1.00	21	FREON TF
22	12:06	0	0.649	1.00	150.00	150.00	0.532	0.532	1.00	22	1,1,1-TRICHLOROETHANE
23	12:30	0	0.670	1.00	150.00	150.00	0.579	0.579	1.00	23	CARBON TETRACHLORIDE
24	13:09	0	0.705	1.00	150.00	150.00	0.645	0.645	1.00	24	VINYL ACETATE
25	13:09	0	0.705	1.00	150.00	150.00	0.586	0.586	1.00	25	BROMODICHLOROMETHANE
26	14:36	0	0.783	1.00	150.00	150.00	0.386	0.386	1.00	26	1,2-DICHLOROPROPANE
27	14:54	0	0.799	1.00	150.00	150.00	0.522	0.522	1.00	27	CIS-1,3-DICHLOROPROPENE
28	15:30	0	0.831	1.00	150.00	150.00	0.463	0.463	1.00	28	TRICHLOROETHENE
29	15:54	0	0.853	1.00	150.00	150.00	0.645	0.645	1.00	29	DIBROMOCHLOROMETHANE
30	18:18	0	0.981	1.00	150.00	150.00	0.191	0.191	1.00	30	METHYLCYCLOHEXANE
31	16:03	0	0.861	1.00	150.00	150.00	0.398	0.398	1.00	31	1,1,2-TRICHLOROETHANE
32	16:06	0	0.863	1.00	150.00	150.00	0.955	0.955	1.00	32	BENZENE
33	16:09	0	0.866	1.00	150.00	150.00	0.490	0.490	1.00	33	TRANS-1,3-DICHLOROPROPENE
34	17:18	0	0.928	1.00	150.00	150.00	0.146	0.146	1.00	34	2-CHLOROETHYLVINYLETHER
35	18:27	0	0.989	1.00	150.00	150.00	0.533	0.533	1.00	35	BROMOFORM
37	19:15	0	0.823	1.00	150.00	150.00	0.615	0.615	1.00	37	4-METHYL-2-PENTANONE
38	20:48	0	0.889	1.00	150.00	150.00	0.568	0.568	1.00	38	2-HEXANONE
39	20:48	0	0.889	1.00	150.00	150.00	0.918	0.918	1.00	39	1,1,2,2-TETRACHLOROETHANE
40	21:03	0	0.900	1.00	150.00	150.00	0.554	0.554	1.00	40	TETRACHLOROETHENE
41	21:54	0	0.936	1.00	150.00	150.00	0.300	0.300	1.00	41	BUTYL ACETATE
43	22:27	0	0.959	1.00	150.00	150.00	0.752	0.752	1.00	43	TOLUENE
44	23:30	0	1.004	1.00	150.00	150.00	1.066	1.066	1.00	44	CHLOROBENZENE
45	25:21	0	1.083	1.00	150.00	150.00	0.473	0.473	1.00	45	ETHYLBENZENE
47	28:33	0	1.220	1.00	150.00	150.00	0.933	0.933	1.00	47	STYRENE
48	28:51	0	1.233	1.00	150.00	150.00	0.596	0.596	1.00	48	M-XYLENE
49	29:30	0	1.261	1.00	90.00	90.00	0.532	0.532	1.00	49	O- & P-XYLENE
50	32:48	0	1.402	1.00	150.00	150.00	0.847	0.847	1.00	50	O-DICHLOROBENZENE
51	8:03	0	1.006	1.00	150.00	150.00	0.819	0.819	1.00	51	CYCLOPENTANE
52	28:51	0	1.233	1.00	150.00	150.00	0.596	0.596	1.00	52	XYLENE (TOTAL)
53	7:06	0	0.887	1.00	150.00	150.00	0.080	0.080	1.00	53	2-PROPANOL

PROCEDURE: TCA DIAGNOSTIC REPORT 5/29/90 14:18:13
DATA FILE: CKW150HV
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	13	11	1	164	UMRET1/UMUNK1
2	2	1	0	14	13	48	69	UMRET2/UMUNK2
2	2	1	0	13	13	4	59	UMRET2/UMUNK3
2	2	1	0	9	9	2	67	UMRET3/UMUNK4
1	1	1	0	8	8	4	58	UMRET4/UMUNK5

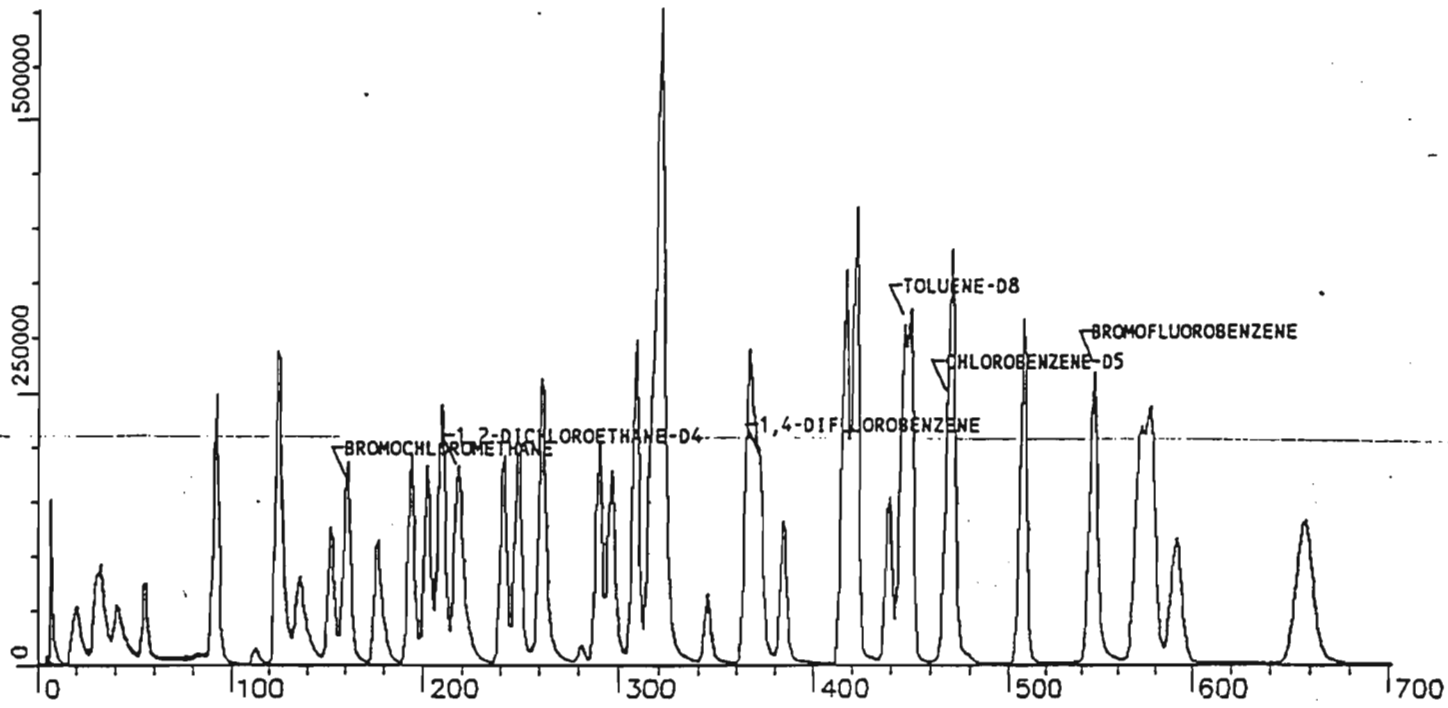
52 COMPOUNDS PROCESSED. 49 FOUND

COMPOUND			SEARCH				SAT	CHRO			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	UM	1	-158	160	160	.	1	989	.	128	160	.	1
2	UM	2	-18	19	21	2	1	989	.	50	21	.	1
3	UM	3	-30	31	32	1	1	992	.	94	32	.	1
4	UM	4	-40	41	40	-1	1	995	.	62	40	.	1
5	UM	5	-55	57	55	-2	1	998	.	64	55	.	1
6	UM	6	-89	91	92	1	1	989	.	84	92	.	1
7	UM	7	-113	115	112	-3	1	986	.	43	112	.	1
8	UM	8	-112	114	113	-1	1	1000	.	56	113	.	1
9	UM	9	-125	127	.	.	.	.	.	53	126	.	1
10	UM	10	-122	124	126	2	1	998	.	76	126	.	1
11	UM	11	-134	136	137	1	1	994	.	101	137	.	1
12	UM	12	-151	153	154	1	1	994	.	96	153	-1	1
13	UM	53	-144	146	.	.	.	.	.	45	.	.	.
14	UM	13	-371	373	373	.	1	996	.	114	373	.	1
15	UM	51	-160	161	161	.	1	992	.	55	161	.	1
16	UM	14	-176	177	177	.	2	993	.	63	177	.	1
17	UM	15	-180	181	.	.	.	.	.	71	180	.	1
18	UM	16	-193	194	194	.	2	994	.	96	194	.	1
19	UM	17	-202	203	202	-1	2	989	.	83	202	.	1
20	UM	18	-219	220	219	-1	1	980	.	62	219	.	1
21	UM	19	-217	218	217	-1	1	997	.	65	217	.	1
22	UM	20	-224	225	225	.	3	1000	.	72	225	.	1
23	UM	21	-210	211	210	-1	1	998	.	101	211	1	1
24	UM	22	-242	243	243	.	1	993	.	97	242	-1	1
25	UM	23	-250	251	251	.	2	987	.	117	250	-1	1
26	UM	24	-262	263	263	.	1	997	.	43	263	.	1
27	UM	25	-262	263	263	.	1	988	.	83	263	.	1
28	UM	26	-291	292	292	.	1	982	.	63	292	.	1
29	UM	27	-297	298	298	.	2	971	.	75	298	.	1
30	UM	28	-309	310	310	.	1	995	.	130	310	.	1
31	UM	29	-316	317	318	1	1	993	.	129	318	.	1
32	UM	30	-365	366	366	.	1	993	.	98	366	.	1
33	UM	31	-320	321	321	.	1	985	.	97	321	.	1
34	UM	32	-320	321	322	1	1	993	.	78	322	.	1
35	UM	33	-322	323	323	.	2	993	.	75	323	.	1
36	UM	34	-345	346	346	.	1	991	.	63	346	.	1
37	UM	35	-369	370	369	-1	1	999	.	173	369	.	1
38	UM	36	-467	468	468	.	1	996	.	117	468	.	1
39	UM	37	-384	385	385	.	2	996	.	43	385	.	1
40	UM	38	-416	417	416	-1	1	951	.	43	416	.	1
41	UM	39	-415	416	416	.	1	997	.	83	416	.	1
42	UM	40	-421	422	421	-1	1	985	.	164	421	.	1
43	UM	41	-438	439	438	-1	1	995	.	56	438	.	1
44	UM	42	-444	445	445	.	1	989	.	98	445	.	1
45	UM	43	-448	449	449	.	1	990	.	92	449	.	1
46	UM	44	-469	470	470	.	1	994	.	112	470	.	1
47	UM	45	-506	507	507	.	1	992	.	106	507	.	1
48	UM	46	-545	547	546	-1	1	997	.	95	546	.	1
49	UM	47	-569	571	571	.	1	995	.	104	571	.	1
50	UM	48	-575	577	577	.	2	999	.	106	577	.	1
51	UM	49	-589	591	590	-1	2	989	.	106	590	.	1
52	UM	50	-653	655	656	1	1	996	.	146	656	.	1

000272

CKW100HV 1
05/29/90 1441
OWAC -- SPS

Sample: VSTD100 CRV#CKW
Conditions: GC/MS OWAC
Method: 8240 Matrix: STANDARD Curve: CKW Submitted by: AQUTEC
Volume: 5.000 ml



No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
1	128	160	8:00	1	1.000	A BB	42140.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	372	18:36	13	1.000	A BB	196396.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	468	23:24	36	1.000	A BB	160806.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	217	10:51	1	1.356	A BB	171464.	100.000 PPB	200.0	19	1,2-DICHLOROETHANE-D4
42	98	446	22:18	36	0.953	A BB	386491.	100.000 PPB	200.0	42	TOLUENE-D8
46	95	546	27:18	36	1.167	A BB	269449.	100.000 PPB	200.0	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	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	1.356	1.00	100.00	100.00	2.034	2.034	1.00	19	1,2-DICHLOROETHANE-D4
42	22:18	0	0.953	1.00	100.00	100.00	1.202	1.202	1.00	42	TOLUENE-D8
46	27:18	0	1.167	1.00	100.00	100.00	0.838	0.838	1.00	46	BROMOFLUOROBENZENE

CKW100HV (05/29/90 14:41) RFs loaded on OWAC 5/29/90 15:31:53

CKW100HV 2

05/29/90 1441
OWAC -- SPS

Sample: VSTD100 CRV#CKW
Conditions: GC/MS OWAC
Method: 8240 Matrix: STANDARD Curve: CKW Submitted by: AQUTEC
Volume: 5.000 ml

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
2	50	20	1:00	1	0.125	A BB	136545.	110.000 PPB		2	CHLOROMETHANE
3	94	33	1:39	1	0.206	A BB	172635.	110.000 PPB		3	BROMOMETHANE
4	62	41	2:03	1	0.256	A BB	143022.	100.000 PPB		4	VINYL CHLORIDE
5	64	55	2:45	1	0.344	A VB	94404.	110.000 PPB		5	CHLOROETHANE
6	84	92	4:36	1	0.575	A BB	178240.	100.000 PPB		6	METHYLENE CHLORIDE
7	43	112	5:36	1	0.700	A BV	22281.	100.000 PPB		7	ACETONE
8	56	113	5:39	1	0.706	A BB	14047.	100.000 PPB		8	ACROLEIN
9	53	125	6:15	1	0.781	A BB	31789.	100.000 PPB		9	ACRYLONITRILE
10	76	124	6:12	1	0.775	A BB	947436.	100.000 PPB		10	CARBON DISULFIDE
11	101	136	6:48	1	0.850	A BB	185914.	100.000 PPB		11	TRICHLOROFLUOROMETHANE
12	96	152	7:36	1	0.950	A BB	92062.	100.000 PPB		12	1,1-DICHLOROETHENE
14	63	177	8:51	1	1.106	A BV	202916.	100.000 PPB		14	1,1-DICHLOROETHANE
15	71	180	9:00	1	1.125	A BB	12253.	100.000 PPB		15	TETRAHYDROFURAN
16	96	194	9:42	1	1.212	A BV	117495.	100.000 PPB		16	1,2-DICHLOROETHENE (TOTAL)
17	83	202	10:06	1	1.262	A BB	248613.	100.000 PPB		17	CHLOROFORM
18	62	219	10:57	1	1.369	A BB	182161.	100.000 PPB		18	1,2-DICHLOROETHANE
20	72	224	11:12	1	1.400	A BB	9012.	100.000 PPB		20	2-BUTANONE
21	101	210	10:30	13	0.565	A BB	205853.	100.000 PPB		21	FREON TF
22	97	242	12:06	13	0.651	A BV	217486.	100.000 PPB		22	1,1,1-TRICHLOROETHANE
23	117	249	12:27	13	0.669	A VB	231220.	100.000 PPB		23	CARBON TETRACHLORIDE
24	43	261	13:03	13	0.702	A BV	274552.	100.000 PPB		24	VINYL ACETATE
25	83	261	13:03	13	0.702	A BB	241040.	100.000 PPB		25	BROMODICHLOROMETHANE
26	63	290	14:30	13	0.780	A BV	147677.	100.000 PPB		26	1,2-DICHLOROPROPANE
27	75	296	14:48	13	0.796	A BB	201019.	100.000 PPB		27	CIS-1,3-DICHLOROPROPENE
28	130	308	15:24	13	0.828	A BV	186383.	100.000 PPB		28	TRICHLOROETHENE
29	129	316	15:48	13	0.849	A BB	249109.	100.000 PPB		29	DIBROMOCHLOROMETHANE
30	98	365	18:15	13	0.981	A BB	79463.	100.000 PPB		30	METHYLCYCLOHEXANE
31	97	320	16:00	13	0.860	A VB	158239.	100.000 PPB		31	1,1,2-TRICHLOROETHANE
32	78	320	16:00	13	0.860	A BV	385929.	100.000 PPB		32	BENZENE
33	75	322	16:06	13	0.866	A BB	189674.	100.000 PPB		33	TRANS-1,3-DICHLOROPROPENE
34	63	345	17:15	13	0.927	A BB	51723.	100.000 PPB		34	2-CHLOROETHYLVINYLETHER
35	173	369	18:27	13	0.992	A BB	196438.	100.000 PPB		35	BROMOFORM
37	43	384	19:12	36	0.821	A BB	222409.	100.000 PPB		37	4-METHYL-2-PENTANONE
38	43	416	20:48	36	0.889	A BB	198464.	100.000 PPB		38	2-HEXANONE
39	83	416	20:48	36	0.889	A BV	305839.	100.000 PPB		39	1,1,2,2-TETRACHLOROETHANE
40	166	421	21:03	36	0.900	A BB	181107.	100.000 PPB		40	TETRACHLOROETHENE
41	56	439	21:57	36	0.938	A BB	103504.	100.000 PPB		41	BUTYL ACETATE
43	92	449	22:27	36	0.959	A BB	250875.	100.000 PPB		43	TOLUENE
44	112	470	23:30	36	1.004	A BB	358871.	100.000 PPB		44	CHLOROBENZENE
45	106	507	25:21	36	1.083	A BB	157909.	100.000 PPB		45	ETHYLBENZENE
47	104	571	28:33	36	1.220	A BV	315168.	100.000 PPB		47	STYRENE
48	106	577	28:51	36	1.233	A BV	197919.	100.000 PPB		48	M-XYLENE
49	106	591	29:33	36	1.263	A VB	107769.	60.000 PPB		49	O- & P-XYLENE
50	146	657	32:51	36	1.404	A BB	283674.	100.000 PPB		50	O-DICHLOROBENZENE
51	55	161	8:03	1	1.006	A BB	73143.	100.000 PPB		51	CYCLOPENTANE
52	106	577	28:51	36	1.233	A BV	197919.	100.000 PPB		52	XYLENE (TOTAL)
53	45	161	7:03	1	0.881	A BV	5522.	100.000 PPB		53	2-PROPANOL

CKW100HV 3

05/29/90 1441
OWAC -- SPS

Sample: VSTD100 CRV#CKW
Conditions: GC/MS OWAC
Method: 8240 Matrix: STANDARD Curve: CKW Submitted by: AQUTEC
Volume: 5.000 ml

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	1:00	0	0.125	1.00	110.00	110.00	1.473	1.473	1.00	2	CHLOROMETHANE
3	1:39	0	0.206	1.00	110.00	110.00	1.862	1.862	1.00	3	BROMOMETHANE
4	2:03	0	0.256	1.00	100.00	100.00	1.697	1.697	1.00	4	VINYL CHLORIDE
5	2:45	0	0.344	1.00	110.00	110.00	1.018	1.018	1.00	5	CHLOROETHANE
6	4:36	0	0.575	1.00	100.00	100.00	2.115	2.115	1.00	6	METHYLENE CHLORIDE
7	5:36	0	0.700	1.00	100.00	100.00	0.264	0.264	1.00	7	ACETONE
8	5:39	0	0.706	1.00	100.00	100.00	0.167	0.167	1.00	8	ACROLEIN
9	6:15	0	0.781	1.00	100.00	100.00	0.377	0.377	1.00	9	ACRYLONITRILE
10	6:12	0	0.775	1.00	100.00	100.00	11.242	11.242	1.00	10	CARBON DISULFIDE
11	6:48	0	0.850	1.00	100.00	100.00	2.206	2.206	1.00	11	TRICHLOROFLUOROMETHANE
12	7:36	0	0.950	1.00	100.00	100.00	1.092	1.092	1.00	12	1,1-DICHLOROETHENE
14	8:51	0	1.106	1.00	100.00	100.00	2.408	2.408	1.00	14	1,1-DICHLOROETHANE
15	9:00	0	1.125	1.00	100.00	100.00	0.145	0.145	1.00	15	TETRAHYDROFURAN
16	9:42	0	1.212	1.00	100.00	100.00	1.394	1.394	1.00	16	1,2-DICHLOROETHENE (TOTAL)
17	10:06	0	1.262	1.00	100.00	100.00	2.950	2.950	1.00	17	CHLOROFORM
18	10:57	0	1.369	1.00	100.00	100.00	2.161	2.161	1.00	18	1,2-DICHLOROETHANE
20	11:12	0	1.400	1.00	100.00	100.00	0.107	0.107	1.00	20	2-BUTANONE
21	10:30	0	0.565	1.00	100.00	100.00	0.524	0.524	1.00	21	FREON TF
22	12:06	0	0.651	1.00	100.00	100.00	0.554	0.554	1.00	22	1,1,1-TRICHLOROETHANE
23	12:27	0	0.669	1.00	100.00	100.00	0.589	0.589	1.00	23	CARBON TETRACHLORIDE
24	13:03	0	0.702	1.00	100.00	100.00	0.699	0.699	1.00	24	VINYL ACETATE
25	13:03	0	0.702	1.00	100.00	100.00	0.614	0.614	1.00	25	BROMODICHLOROMETHANE
26	14:30	0	0.780	1.00	100.00	100.00	0.376	0.376	1.00	26	1,2-DICHLOROPROPANE
27	14:48	0	0.796	1.00	100.00	100.00	0.512	0.512	1.00	27	CIS-1,3-DICHLOROPROPENE
28	15:24	0	0.828	1.00	100.00	100.00	0.475	0.475	1.00	28	TRICHLOROETHENE
29	15:48	0	0.849	1.00	100.00	100.00	0.634	0.634	1.00	29	DIBROMOCHLOROMETHANE
30	18:15	0	0.981	1.00	100.00	100.00	0.202	0.202	1.00	30	METHYLCYCLOHEXANE
31	16:00	0	0.860	1.00	100.00	100.00	0.403	0.403	1.00	31	1,1,2-TRICHLOROETHANE
32	16:00	0	0.860	1.00	100.00	100.00	0.983	0.983	1.00	32	BENZENE
33	16:06	0	0.866	1.00	100.00	100.00	0.483	0.483	1.00	33	TRANS-1,3-DICHLOROPROPENE
34	17:15	0	0.927	1.00	100.00	100.00	0.132	0.132	1.00	34	2-CHLOROETHYLVINYLETHER
35	18:27	0	0.992	1.00	100.00	100.00	0.500	0.500	1.00	35	BROMOFORM
37	19:12	0	0.821	1.00	100.00	100.00	0.692	0.692	1.00	37	4-METHYL-2-PENTANONE
38	20:48	0	0.889	1.00	100.00	100.00	0.617	0.617	1.00	38	2-HEXANONE
39	20:48	0	0.889	1.00	100.00	100.00	0.951	0.951	1.00	39	1,1,2,2-TETRACHLOROETHANE
40	21:03	0	0.900	1.00	100.00	100.00	0.563	0.563	1.00	40	TETRACHLOROETHENE
41	21:57	0	0.938	1.00	100.00	100.00	0.322	0.322	1.00	41	BUTYL ACETATE
43	22:27	0	0.959	1.00	100.00	100.00	0.780	0.780	1.00	43	TOLUENE
44	23:30	0	1.004	1.00	100.00	100.00	1.116	1.116	1.00	44	CHLOROBENZENE
45	25:21	0	1.083	1.00	100.00	100.00	0.491	0.491	1.00	45	ETHYLBENZENE
47	28:33	0	1.220	1.00	100.00	100.00	0.980	0.980	1.00	47	STYRENE
48	28:51	0	1.233	1.00	100.00	100.00	0.615	0.615	1.00	48	M-XYLENE
49	29:33	0	1.263	1.00	60.00	60.00	0.558	0.558	1.00	49	O- & P-XYLENE
50	32:51	0	1.404	1.00	100.00	100.00	0.882	0.882	1.00	50	O-DICHLOROBENZENE
51	8:03	0	1.006	1.00	100.00	100.00	0.868	0.868	1.00	51	CYCLOPENTANE
52	28:51	0	1.233	1.00	100.00	100.00	0.615	0.615	1.00	52	XYLENE (TOTAL)
53	7:03	0	0.881	1.00	100.00	100.00	0.066	0.066	1.00	53	2-PROPANOL

PROCEDURE: TCA DIAGNOSTIC REPORT 5/29/90 15:16:05
DATA FILE: CKW100HV
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	11	1	127	UMRET1/UMUNK1
2	2	1	0	14	13	24	93	UMRET2/UMUNK2
2	2	1	0	13	13	4	80	UMRET2/UMUNK3
2	2	1	0	9	9	2	65	UMRET3/UMUNK4
1	1	1	0	8	8	2	74	UMRET4/UMUNK5

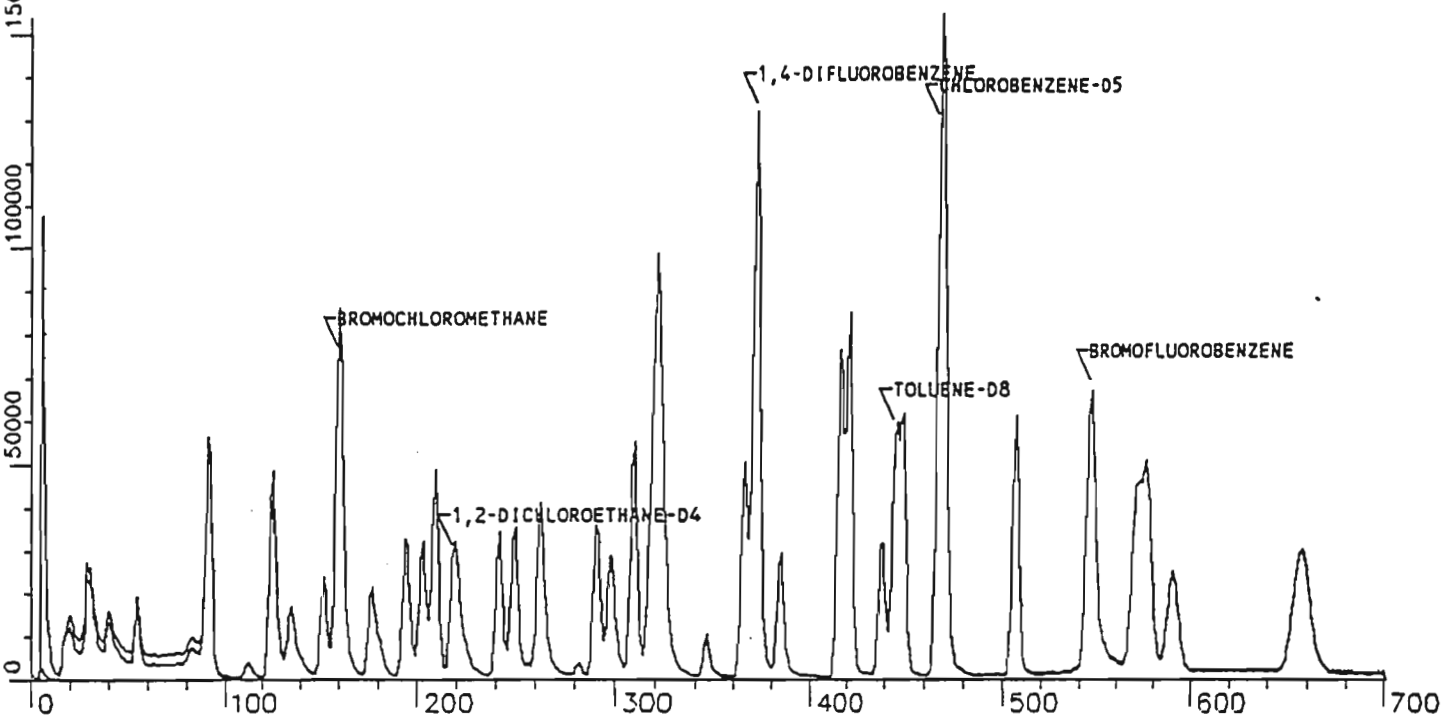
52 COMPOUNDS PROCESSED. 49 FOUND

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	990	.	128	160	.	1
2	UM	2	-18	20	20	.	1	989	.	50	20	.	1
3	UM	3	-30	32	33	1	1	988	.	94	33	.	1
4	UM	4	-40	42	41	-1	1	998	.	62	41	.	1
5	UM	5	-55	57	55	-2	1	995	.	64	55	.	1
6	UM	6	-89	90	92	2	1	991	.	84	92	.	1
7	UM	7	-113	114	112	-2	1	981	.	43	112	.	1
8	UM	8	-112	113	113	.	1	999	.	56	113	.	1
9	UM	9	-125	126	.	.	.	.	.	53	125	.	1
10	UM	10	-122	123	124	1	1	997	.	76	124	.	1
11	UM	11	-134	135	136	1	1	994	.	101	136	.	1
12	UM	12	-151	152	152	.	1	991	.	96	152	.	1
13	UM	53	-144	145	.	.	.	.	.	45	.	.	.
14	UM	13	-371	372	372	.	1	998	.	114	372	.	1
15	UM	51	-160	161	161	.	1	994	.	55	161	.	1
16	UM	14	-176	176	177	1	1	996	.	63	177	.	1
17	UM	15	-180	180	.	.	.	.	.	71	180	.	1
18	UM	16	-193	193	194	1	2	994	.	96	194	.	1
19	UM	17	-202	202	202	.	2	994	.	83	202	.	1
20	UM	18	-219	219	219	.	1	981	.	62	219	.	1
21	UM	19	-217	217	217	.	1	998	.	65	217	.	1
22	UM	20	-224	224	224	.	3	997	.	72	224	.	1
23	UM	21	-210	210	209	-1	1	996	.	101	210	1	1
24	UM	22	-242	242	242	.	1	993	.	97	242	.	1
25	UM	23	-250	250	249	-1	2	984	.	117	249	.	1
26	UM	24	-262	262	261	-1	1	1000	.	43	261	.	1
27	UM	25	-262	262	262	.	1	989	.	83	261	-1	1
28	UM	26	-291	291	290	-1	1	982	.	63	290	.	1
29	UM	27	-297	297	296	-1	2	981	.	75	296	.	1
30	UM	28	-309	309	309	.	1	996	.	130	308	-1	1
31	UM	29	-316	316	316	.	1	992	.	129	316	.	1
32	UM	30	-365	365	366	1	1	995	.	98	365	-1	1
33	UM	31	-320	320	320	.	1	994	.	97	320	.	1
34	UM	32	-320	320	320	.	1	992	.	78	320	.	1
35	UM	33	-322	322	322	.	2	994	.	75	322	.	1
36	UM	34	-345	345	345	.	1	990	.	63	345	.	1
37	UM	35	-369	369	369	.	1	993	.	173	369	.	1
38	UM	36	-467	468	468	.	1	995	.	117	468	.	1
39	UM	37	-384	384	384	.	2	994	.	43	384	.	1
40	UM	38	-416	417	416	-1	1	953	.	43	416	.	1
41	UM	39	-415	416	416	.	1	1000	.	83	416	.	1
42	UM	40	-421	422	421	-1	1	984	.	164	421	.	1
43	UM	41	-438	439	439	.	1	994	.	56	439	.	1
44	UM	42	-444	445	446	1	1	990	.	98	446	.	1
45	UM	43	-448	449	449	.	1	986	.	92	449	.	1
46	UM	44	-469	470	470	.	1	990	.	112	470	.	1
47	UM	45	-506	508	507	-1	1	990	.	106	507	.	1
48	UM	46	-545	547	546	-1	1	997	.	95	546	.	1
49	UM	47	-569	571	571	.	1	996	.	104	571	.	1
50	UM	48	-575	577	577	.	1	995	.	106	577	.	1
51	UM	49	-589	591	591	.	2	989	.	106	591	.	1
52	UM	50	653	656	657	1	1	993	.	146	657	.	1

CKW020HV 1

05/29/90 1539
OWAC -- SPS

Sample: VSTD020 CRV#CKW
Conditions: GC/MS OWAC
Method: 8240 Matrix: STANDARD Curve: CKW Submitted by: AQUTEC
Volume: 5.000 ml



No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
1	128	159	7:57	1	1.000	A BB	41130.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	372	18:36	13	1.000	A BB	185669.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	467	23:21	36	1.000	A BB	152806.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	218	10:54	1	1.371	A BB	32940.	20.000 PPB	40.0	19	1,2-DICHLOROETHANE-D4
42	98	445	22:15	36	0.953	A BB	78160.	20.000 PPB	40.0	42	TOLUENE-D8
46	95	546	27:18	36	1.169	A BB	58407.	20.000 PPB	40.0	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	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	10:54	0	1.371	1.00	20.00	20.00	2.002	2.002	1.00	19	1,2-DICHLOROETHANE-D4
42	22:15	0	0.953	1.00	20.00	20.00	1.279	1.279	1.00	42	TOLUENE-D8
46	27:18	0	1.169	1.00	20.00	20.00	0.956	0.956	1.00	46	BROMOFLUOROBENZENE

CKW020HV (05/29/90 15:39) RFs loaded on OWAC 5/29/90 16:29:10

CKW020HV 2

05/29/90 1539
OWAC -- SPS

Sample: VSTD020 CRV#CKW
Conditions: GC/MS OWAC
Method: 8240 Matrix: STANDARD Curve: CKW 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	0.113	A BB	24063.	22.000 PPB		2	CHLOROMETHANE
3	94	29	1:27	1	0.182	A BB	33567.	22.000 PPB		3	BROMOMETHANE
4	62	40	2:00	1	0.252	A BB	26600.	20.000 PPB		4	VINYL CHLORIDE
5	64	55	2:45	1	0.346	A VB	17527.	22.000 PPB		5	CHLOROETHANE
6	84	91	4:33	1	0.572	A BB	36972.	20.000 PPB		6	METHYLENE CHLORIDE
7	43	112	5:36	1	0.704	A BB	7468.	20.000 PPB		7	ACETONE
8	56	114	5:42	1	0.717	A BB	2813.	20.000 PPB		8	ACROLEIN
9	53	127	6:21	1	0.799	A BB	6872.	20.000 PPB		9	ACRYLONITRILE
10	76	125	6:15	1	0.786	A BB	157008.	20.000 PPB		10	CARBON DISULFIDE
11	101	135	6:45	1	0.849	A BB	35171.	20.000 PPB		11	TRICHLOROFLUOROMETHANE
12	96	152	7:36	1	0.956	A BB	18092.	20.000 PPB		12	1,1-DICHLOROETHENE
14	63	177	8:51	1	1.113	A BB	39456.	20.000 PPB		14	1,1-DICHLOROETHANE
15	71	181	9:03	1	1.138	A BB	3165.	20.000 PPB		15	TETRAHYDROFURAN
16	96	194	9:42	1	1.220	A BB	22943.	20.000 PPB		16	1,2-DICHLOROETHENE (TOTAL)
17	83	203	10:09	1	1.277	A BB	46011.	20.000 PPB		17	CHLOROFORM
18	62	220	11:00	1	1.384	A BB	34196.	20.000 PPB		18	1,2-DICHLOROETHANE
20	72	225	11:15	1	1.415	A BB	2262.	20.000 PPB		20	2-BUTANONE
21	101	209	10:27	13	0.562	A BB	38458.	20.000 PPB		21	FREON TF
22	97	242	12:06	13	0.651	A BB	39081.	20.000 PPB		22	1,1,1-TRICHLOROETHANE
23	117	250	12:30	13	0.672	A VB	38987.	20.000 PPB		23	CARBON TETRACHLORIDE
24	43	262	13:06	13	0.704	A BV	50175.	20.000 PPB		24	VINYL ACETATE
25	83	263	13:09	13	0.707	A BB	41885.	20.000 PPB		25	BROMODICHLOROMETHANE
26	63	291	14:33	13	0.782	A BB	29334.	20.000 PPB		26	1,2-DICHLOROPROPANE
27	75	298	14:54	13	0.801	A BB	35583.	20.000 PPB		27	CIS-1,3-DICHLOROPROPENE
28	130	310	15:30	13	0.833	A BB	35234.	20.000 PPB		28	TRICHLOROETHENE
29	129	318	15:54	13	0.855	A BB	41655.	20.000 PPB		29	DIBROMOCHLOROMETHANE
30	98	366	18:18	13	0.984	A BB	15291.	20.000 PPB		30	METHYLCYCLOHEXANE
31	97	321	16:03	13	0.863	A VB	30722.	20.000 PPB		31	1,1,2-TRICHLOROETHANE
32	78	321	16:03	13	0.863	A BB	69806.	20.000 PPB		32	BENZENE
33	75	324	16:12	13	0.871	A BB	30412.	20.000 PPB		33	TRANS-1,3-DICHLOROPROPENE
34	63	346	17:18	13	0.930	A BB	8417.	20.000 PPB		34	2-CHLOROETHYLVINYLETHER
35	173	370	18:30	13	0.995	A BB	36020.	20.000 PPB		35	BROMOFORM
37	43	385	19:15	36	0.824	A BB	52130.	20.000 PPB		37	4-METHYL-2-PENTANONE
38	43	417	20:51	36	0.893	A BB	43589.	20.000 PPB		38	2-HEXANONE
39	83	416	20:48	36	0.891	A BB	65929.	20.000 PPB		39	1,1,2,2-TETRACHLOROETHANE
40	164	421	21:03	36	0.901	A BB	35166.	20.000 PPB		40	TETRACHLOROETHENE
41	56	438	21:54	36	0.938	A BB	21799.	20.000 PPB		41	BUTYL ACETATE
43	92	449	22:27	36	0.961	A BB	47336.	20.000 PPB		43	TOLUENE
44	112	470	23:30	36	1.006	A BB	72075.	20.000 PPB		44	CHLOROBENZENE
45	106	507	25:21	36	1.086	A BB	31391.	20.000 PPB		45	ETHYLBENZENE
47	104	571	28:33	36	1.223	A BB	64322.	20.000 PPB		47	STYRENE
48	106	577	28:51	36	1.236	A BV	40848.	20.000 PPB		48	M-XYLENE
49	106	590	29:30	36	1.263	A VB	22283.	12.000 PPB		49	O- & P-XYLENE
50	146	657	32:51	36	1.407	A BB	63539.	20.000 PPB		50	O-DICHLOROBENZENE
51	55	161	8:03	1	1.013	A BB	14671.	20.000 PPB		51	CYCLOPENTANE
52	106	577	28:51	36	1.236	A BV	40848.	20.000 PPB		52	XYLENE (TOTAL)
53	45	141	7:03	1	0.887	A BB	2863.	20.000 PPB		53	2-PROPANOL

Sample: VSTD020 CRV#CKW
Conditions: GC/MS OWAC
Method: 8240 Matrix: STANDARD Curve: CKW Submitted by: AQUTEC
Volume: 5.000 ml

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	0:54	0	0.113	1.00	22.00	22.00	1.330	1.330	1.00	2	CHLOROMETHANE
3	1:27	0	0.182	1.00	22.00	22.00	1.855	1.855	1.00	3	BROMOMETHANE
4	2:00	0	0.252	1.00	20.00	20.00	1.617	1.617	1.00	4	VINYL CHLORIDE
5	2:45	0	0.346	1.00	22.00	22.00	0.968	0.968	1.00	5	CHLOROETHANE
6	4:33	0	0.572	1.00	20.00	20.00	2.247	2.247	1.00	6	METHYLENE CHLORIDE
7	5:36	0	0.704	1.00	20.00	20.00	0.454	0.454	1.00	7	ACETONE
8	5:42	0	0.717	1.00	20.00	20.00	0.171	0.171	1.00	8	ACROLEIN
9	6:21	0	0.799	1.00	20.00	20.00	0.418	0.418	1.00	9	ACRYLONITRILE
10	6:15	0	0.786	1.00	20.00	20.00	9.543	9.543	1.00	10	CARBON DISULFIDE
11	6:45	0	0.849	1.00	20.00	20.00	2.138	2.138	1.00	11	TRICHLOROFLUOROMETHANE
12	7:36	0	0.956	1.00	20.00	20.00	1.100	1.100	1.00	12	1,1-DICHLOROETHENE
14	8:51	0	1.113	1.00	20.00	20.00	2.398	2.398	1.00	14	1,1-DICHLOROETHANE
15	9:03	0	1.138	1.00	20.00	20.00	0.192	0.192	1.00	15	TETRAHYDROFURAN
16	9:42	0	1.220	1.00	20.00	20.00	1.395	1.395	1.00	16	1,2-DICHLOROETHENE (TOTAL)
17	10:09	0	1.277	1.00	20.00	20.00	2.797	2.797	1.00	17	CHLOROFORM
18	11:00	0	1.384	1.00	20.00	20.00	2.079	2.079	1.00	18	1,2-DICHLOROETHANE
20	11:15	0	1.415	1.00	20.00	20.00	0.137	0.137	1.00	20	2-BUTANONE
21	10:27	0	0.562	1.00	20.00	20.00	0.518	0.518	1.00	21	FREON TF
22	12:06	0	0.651	1.00	20.00	20.00	0.526	0.526	1.00	22	1,1,1-TRICHLOROETHANE
23	12:30	0	0.672	1.00	20.00	20.00	0.525	0.525	1.00	23	CARBON TETRACHLORIDE
24	13:06	0	0.704	1.00	20.00	20.00	0.676	0.676	1.00	24	VINYL ACETATE
25	13:09	0	0.707	1.00	20.00	20.00	0.564	0.564	1.00	25	BROMODICHLOROMETHANE
26	14:33	0	0.782	1.00	20.00	20.00	0.395	0.395	1.00	26	1,2-DICHLOROPROPANE
27	14:54	0	0.801	1.00	20.00	20.00	0.479	0.479	1.00	27	CIS-1,3-DICHLOROPROPENE
28	15:30	0	0.833	1.00	20.00	20.00	0.474	0.474	1.00	28	TRICHLOROETHENE
29	15:54	0	0.855	1.00	20.00	20.00	0.561	0.561	1.00	29	DIBROMOCHLOROMETHANE
30	18:18	0	0.984	1.00	20.00	20.00	0.206	0.206	1.00	30	METHYLCYCLOHEXANE
31	16:03	0	0.863	1.00	20.00	20.00	0.414	0.414	1.00	31	1,1,2-TRICHLOROETHANE
32	16:03	0	0.863	1.00	20.00	20.00	0.940	0.940	1.00	32	BENZENE
33	16:12	0	0.871	1.00	20.00	20.00	0.409	0.409	1.00	33	TRANS-1,3-DICHLOROPROPENE
34	17:18	0	0.930	1.00	20.00	20.00	0.113	0.113	1.00	34	2-CHLOROETHYLVINYLETHER
35	18:30	0	0.995	1.00	20.00	20.00	0.485	0.485	1.00	35	BROMOFORM
37	19:15	0	0.824	1.00	20.00	20.00	0.853	0.853	1.00	37	4-METHYL-2-PENTANONE
38	20:51	0	0.893	1.00	20.00	20.00	0.713	0.713	1.00	38	2-HEXANONE
39	20:48	0	0.891	1.00	20.00	20.00	1.079	1.079	1.00	39	1,1,2,2-TETRACHLOROETHANE
40	21:03	0	0.901	1.00	20.00	20.00	0.575	0.575	1.00	40	TETRACHLOROETHENE
41	21:54	0	0.938	1.00	20.00	20.00	0.357	0.357	1.00	41	BUTYL ACETATE
43	22:27	0	0.961	1.00	20.00	20.00	0.774	0.774	1.00	43	TOLUENE
44	23:30	0	1.006	1.00	20.00	20.00	1.179	1.179	1.00	44	CHLOROBENZENE
45	25:21	0	1.086	1.00	20.00	20.00	0.514	0.514	1.00	45	ETHYLBENZENE
47	28:33	0	1.223	1.00	20.00	20.00	1.052	1.052	1.00	47	STYRENE
48	28:51	0	1.236	1.00	20.00	20.00	0.668	0.668	1.00	48	M-XYLENE
49	29:30	0	1.263	1.00	12.00	12.00	0.608	0.608	1.00	49	O- & P-XYLENE
50	32:51	0	1.407	1.00	20.00	20.00	1.040	1.040	1.00	50	O-DICHLOROBENZENE
51	8:03	0	1.013	1.00	20.00	20.00	0.892	0.892	1.00	51	CYCLOPENTANE
52	28:51	0	1.236	1.00	20.00	20.00	0.668	0.668	1.00	52	XYLENE (TOTAL)
53	7:03	0	0.887	1.00	20.00	20.00	0.174	0.174	1.00	53	2-PROPANOL

PROCEDURE: TCA DIAGNOSTIC REPORT 5/29/90 16:15:19
DATA FILE: CKW020HV
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	13	11	1	113	UMRET1/UMUNK1
2	2	1	0	14	13	12	83	UMRET2/UMUNK2
2	2	1	0	13	13	4	55	UMRET2/UMUNK3
2	2	1	0	9	9	1	36	UMRET3/UMUNK4
1	1	1	0	8	8	8	97	UMRET4/UMUNK5

52 COMPOUNDS PROCESSED. 49 FOUND

COMPOUND NO	LIB	ENTRY	SEARCH REF	SEARCH PRED	SEARCH OBS	SEARCH DELTA	SEARCH PEAKS	SAT FIT	SAT PEAKS	CHRO M/Z	CHRO TOP	CHRO DELTA	CHRO PEAKS
1	UM	1	-158	160	159	.	1	984	.	128	159	-1	1
2	UM	2	-18	18	18	.	1	988	.	50	18	.	1
3	UM	3	-30	30	29	-1	1	991	.	94	29	.	1
4	UM	4	-40	40	40	.	1	996	.	62	40	.	1
5	UM	5	-55	55	55	.	1	997	.	64	55	.	1
6	UM	6	-89	90	91	1	1	984	.	84	91	.	1
7	UM	7	-113	114	112	-2	1	982	.	43	112	.	1
8	UM	8	-112	113	114	1	1	999	.	56	114	.	1
9	UM	9	-125	126	.	.	.	.	.	53	127	.	1
10	UM	10	-122	123	125	2	1	996	.	76	125	.	1
11	UM	11	-134	135	135	.	1	997	.	101	135	.	1
12	UM	12	-151	153	152	-1	1	991	.	96	152	.	1
13	UM	53	-144	146	.	.	.	.	.	45	.	.	.
14	UM	13	-371	372	372	.	1	998	.	114	372	.	1
15	UM	51	-160	161	161	.	1	994	.	55	161	.	1
16	UM	14	-176	177	177	.	1	995	.	63	177	.	1
17	UM	15	-180	181	.	.	.	.	.	71	181	.	1
18	UM	16	-193	194	195	1	1	994	.	96	194	-1	1
19	UM	17	-202	203	203	.	2	996	.	83	203	.	1
20	UM	18	-219	220	220	.	1	976	.	62	220	.	1
21	UM	19	-217	218	218	.	1	994	.	65	218	.	1
22	UM	20	-224	225	225	.	3	998	.	72	225	.	1
23	UM	21	-210	211	209	-2	1	998	.	101	209	.	1
24	UM	22	-242	243	242	-1	1	993	.	97	242	.	1
25	UM	23	-250	251	250	-1	2	986	.	117	250	.	1
26	UM	24	-262	263	262	-1	1	995	.	43	262	.	1
27	UM	25	-262	263	263	.	1	987	.	83	263	.	1
28	UM	26	-291	292	291	-1	1	977	.	63	291	.	1
29	UM	27	-297	298	298	.	2	963	.	75	298	.	1
30	UM	28	-309	310	310	.	1	996	.	130	310	.	1
31	UM	29	-316	317	318	1	1	995	.	129	318	.	1
32	UM	30	-365	366	366	.	1	993	.	98	366	.	1
33	UM	31	-320	321	321	.	1	983	.	97	321	.	1
34	UM	32	-320	321	321	.	1	991	.	78	321	.	1
35	UM	33	-322	323	324	1	2	993	.	75	324	.	1
36	UM	34	-345	346	346	.	1	990	.	63	346	.	1
37	UM	35	-369	370	370	.	1	982	.	173	370	.	1
38	UM	36	-467	468	468	.	1	997	.	117	467	-1	1
39	UM	37	-384	385	385	.	1	990	.	43	385	.	1
40	UM	38	-416	417	417	.	1	957	.	43	417	.	1
41	UM	39	-415	416	416	.	1	996	.	83	416	.	1
42	UM	40	-421	422	421	-1	1	981	.	164	421	.	1
43	UM	41	-438	439	439	.	1	995	.	56	438	-1	1
44	UM	42	-444	445	445	.	1	989	.	98	445	.	1
45	UM	43	-448	449	449	.	1	985	.	92	449	.	1
46	UM	44	-469	470	470	.	1	996	.	112	470	.	1
47	UM	45	-506	508	507	-1	1	990	.	106	507	.	1
48	UM	46	-545	547	546	-1	1	993	.	95	546	.	1
49	UM	47	-569	571	571	.	2	991	.	104	571	.	1
50	UM	48	-575	577	577	.	2	996	.	106	577	.	1
51	UM	49	-589	591	590	-1	2	991	.	106	590	.	1
52	UM	50	-653	655	657	2	1	993	.	146	657	.	1

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:AQUATEC, INC. Contract:90000

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

Instrument ID: OWAC Calibration Date: 05/18/90 Time: 0840

Lab File ID: CKQ050IHV Init. Calib. Date(s): 05/15/90 05/15/90

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

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D	
Chloromethane	#1.379	1.458	5.7	#
Bromomethane	1.289	1.393	8.0	
Vinyl Chloride	*1.255	1.387	10.5	*
Chloroethane	.789	.868	10.1	
Methylene Chloride	1.824	1.578	13.5	
Acetone	.831	.724	12.9	
Carbon Disulfide	4.210	3.498	16.9	
1,1-Dichloroethene	*1.303	1.111	14.7	*
1,1-Dichloroethane	#2.876	2.619	9.0	#
1,2-Dichloroethene (total)	1.600	1.360	15.0	
Chloroform	*3.515	3.260	7.3	*
1,2-Dichloroethane	2.647	2.377	10.2	
2-Butanone	.196	.183	6.9	
1,1,1-Trichloroethane	.515	.536	4.0	
Carbon Tetrachloride	.525	.524	.3	
Vinyl Acetate	.604	.662	9.6	
Bromodichloromethane	.696	.668	4.0	
1,2-Dichloropropane	* .410	.397	3.1	*
cis-1,3-Dichloropropene	.552	.537	2.6	
Trichloroethene	.451	.451	.1	
Dibromochloromethane	.589	.617	4.8	
1,1,2-Trichloroethane	.413	.416	.6	
Benzene	1.035	1.052	1.7	
trans-1,3-Dichloropropene	.489	.489	.1	
Bromoform	# .465	.506	8.9	#
4-Methyl-2-Pentanone	.738	.752	2.0	
2-Hexanone	.639	.645	.9	
Tetrachloroethene	.500	.553	10.6	
1,1,2,2-Tetrachloroethane	# .991	.964	2.7	#
Toluene	* .753	.777	3.2	*
Chlorobenzene	#1.037	1.037	.0	#
Ethylbenzene	* .457	.457	.1	*
Styrene	.924	.896	3.1	
Xylene (total)	.582	.603	3.8	
Toluene-d8	1.122	1.132	.8	
Bromofluorobenzene	.786	.774	1.5	
1,2-Dichloroethane-d4	2.489	2.232	10.3	

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:AQUATEC, INC. Contract:90000

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

Instrument ID: OWAC Calibration Date: 05/22/90 Time: 0626

Lab File ID: CKT050BHV Init. Calib. Date(s): 05/21/90 05/21/90

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

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND		RRF	RRF50	%D	
Chloromethane	#	.869	.853	1.9	#
Bromomethane		.941	.979	4.0	
Vinyl Chloride	*	.832	.850	2.2	*
Chloroethane		.618	.657	6.3	
Methylene Chloride		1.199	1.260	5.0	
Acetone		.350	.388	10.9	
Carbon Disulfide		2.891	2.915	.8	
1,1-Dichloroethene	*	.938	.962	2.5	*
1,1-Dichloroethane	#	2.176	2.328	7.0	#
1,2-Dichloroethene (total)		1.212	1.287	6.2	
Chloroform	*	2.702	2.689	.5	*
1,2-Dichloroethane		1.894	1.934	2.1	
2-Butanone		.112	.132	18.2	
1,1,1-Trichloroethane		.478	.503	5.3	
Carbon Tetrachloride		.494	.500	1.4	
Vinyl Acetate		.529	.539	1.9	
Bromodichloromethane		.597	.626	4.9	
1,2-Dichloropropane	*	.354	.384	8.4	*
cis-1,3-Dichloropropene		.489	.493	.7	
Trichloroethene		.434	.453	4.3	
Dibromochloromethane		.586	.571	2.5	
1,1,2-Trichloroethane		.364	.365	.1	
Benzene		.898	.948	5.5	
trans-1,3-Dichloropropene		.440	.413	6.1	
Bromoform	#	.393	.308	21.7	#
4-Methyl-2-Pentanone		.553	.594	7.3	
2-Hexanone		.452	.481	6.4	
Tetrachloroethene		.483	.527	9.3	
1,1,2,2-Tetrachloroethane	#	.679	.503	26.0	#
Toluene	*	.703	.757	7.7	*
Chlorobenzene	#	.978	.985	.7	#
Ethylbenzene	*	.373	.356	4.5	*
Styrene		.753	.649	13.8	
Xylene (total)		.478	.443	7.3	
Toluene-d8		1.053	1.187	12.7	
Bromofluorobenzene		.637	.549	13.8	
1,2-Dichloroethane-d4		1.854	1.921	3.6	

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:AQUATEC, INC. Contract:90000

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

Instrument ID: OWAC Calibration Date: 05/24/90 Time: 0451

Lab File ID: CKV050AHV Init. Calib. Date(s): 05/23/90 05/24/90

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

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND		RRF	RRF50	%D	
Chloromethane	#	.993	.936	5.7	#
Bromomethane		1.397	1.344	3.8	
Vinyl Chloride	*	1.199	1.101	8.2	*
Chloroethane		.749	.692	7.7	
Methylene Chloride		1.937	1.832	5.4	
Acetone		.481	.461	4.2	
Carbon Disulfide		2.506	2.326	7.2	
1,1-Dichloroethene	*	.865	.827	4.4	*
1,1-Dichloroethane	#	2.336	2.280	2.4	#
1,2-Dichloroethene (total)		1.119	1.076	3.9	
Chloroform	*	2.883	2.796	3.0	*
1,2-Dichloroethane		2.320	2.289	1.3	
2-Butanone		.109	.099	8.9	
1,1,1-Trichloroethane		.501	.468	6.7	
Carbon Tetrachloride		.532	.477	10.3	
Vinyl Acetate		.568	.531	6.5	
Bromodichloromethane		.567	.530	6.7	
1,2-Dichloropropane	*	.352	.338	4.0	*
cis-1,3-Dichloropropene		.436	.412	5.6	
Trichloroethene		.404	.381	5.6	
Dibromochloromethane		.563	.505	10.3	
1,1,2-Trichloroethane		.351	.324	7.5	
Benzene		.322	.768	6.6	
trans-1,3-Dichloropropene		.429	.390	9.1	
Bromoform	#	.444	.392	11.8	#
4-Methyl-2-Pentanone		.678	.670	1.1	
2-Hexanone		.579	.543	6.3	
Tetrachloroethene		.529	.505	4.6	
1,1,2,2-Tetrachloroethane	#	.836	.801	4.2	#
Toluene	*	.656	.625	4.8	*
Chlorobenzene	#	.997	.955	4.2	#
Ethylbenzene	*	.434	.414	4.5	*
Styrene		.889	.851	4.3	
Xylene (total)		.575	.553	3.8	
Toluene-d8		1.087	1.088	.1	
Bromofluorobenzene		.878	.858	2.2	
1,2-Dichloroethane-d4		2.204	2.207	.1	

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:AQUATEC, INC. Contract:90000

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

Instrument ID: OWAC Calibration Date: 05/24/90 Time: 1852

Lab File ID: CKV050BHV Init. Calib. Date(s): 05/23/90 05/24/90

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

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND		RRF	RRF50	%D	
Chloromethane	#	.993	1.299	30.9	#
Bromomethane		1.397	1.568	12.3	
Vinyl Chloride	*	1.199	1.345	12.1	*
Chloroethane		.749	.858	14.6	
Methylene Chloride		1.937	1.860	4.0	
Acetone		.481	.346	28.1	
Carbon Disulfide		2.506	1.979	21.0	
1,1-Dichloroethene	*	.865	.884	2.2	*
1,1-Dichloroethane	#	2.336	2.264	3.1	#
1,2-Dichloroethene (total)		1.119	1.107	1.0	
Chloroform	*	2.883	2.786	3.4	*
1,2-Dichloroethane		2.320	2.197	5.3	
2-Butanone		.109	.079	27.1	
1,1,1-Trichloroethane		.501	.473	5.6	
Carbon Tetrachloride		.532	.504	5.3	
Vinyl Acetate		.568	.481	15.3	
Bromodichloromethane		.567	.515	9.2	
1,2-Dichloropropane	*	.352	.347	1.5	*
cis-1,3-Dichloropropene		.436	.396	9.3	
Trichloroethene		.404	.396	1.9	
Dibromochloromethane		.563	.475	15.5	
1,1,2-Trichloroethane		.351	.334	4.9	
Benzene		.822	.805	2.1	
trans-1,3-Dichloropropene		.429	.364	15.1	
Bromoform	#	.444	.385	13.3	#
4-Methyl-2-Pentanone		.678	.628	7.3	
2-Hexanone		.579	.536	7.5	
Tetrachloroethene		.529	.565	6.8	
1,1,2,2-Tetrachloroethane	#	.836	.756	9.5	#
Toluene	*	.656	.643	2.0	*
Chlorobenzene	#	.997	.965	3.2	#
Ethylbenzene	*	.434	.421	2.9	*
Styrene		.889	.831	6.5	
Xylene (total)		.575	.557	3.0	
Toluene-d8		1.087	1.067	1.8	
Bromofluorobenzene		.878	.848	3.4	
1,2-Dichloroethane-d4		2.204	2.135	3.1	

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:AQUATEC, INC. Contract:90000

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

Instrument ID: OWAC Calibration Date: 05/30/90 Time: 0841

Lab File ID: CKW050BHV Init. Calib. Date(s): 05/29/90 05/29/90

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

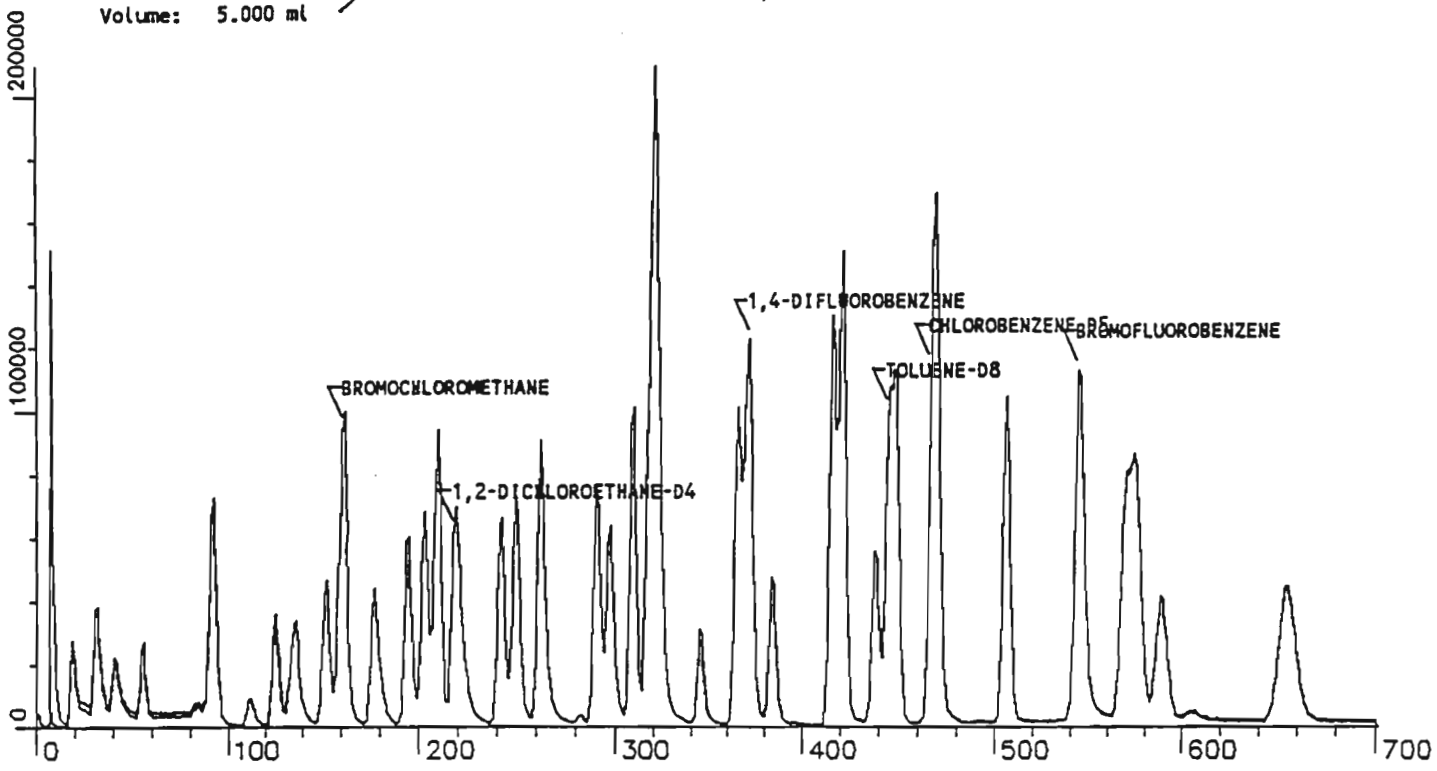
Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D	
Chloromethane	#1.276	1.311	2.7	#
Bromomethane	1.717	1.580	8.0	
Vinyl Chloride	*1.561	1.469	5.9	*
Chloroethane	.934	.910	2.5	
Methylene Chloride	2.012	1.955	2.9	
Acetone	.294	.279	5.1	
Carbon Disulfide	9.960	8.646	13.2	
1,1-Dichloroethene	*1.068	.969	9.2	*
1,1-Dichloroethane	#2.336	1.992	14.7	#
1,2-Dichloroethene (total)	1.337	1.231	7.9	
Chloroform	*2.765	2.440	11.7	*
1,2-Dichloroethane	2.053	1.762	14.2	
2-Butanone	.099	.087	11.9	
1,1,1-Trichloroethane	.528	.430	18.5	
Carbon Tetrachloride	.570	.456	20.0	
Vinyl Acetate	.665	.464	30.2	
Bromodichloromethane	.585	.468	20.0	
1,2-Dichloropropane	* .383	.322	15.9	*
cis-1,3-Dichloropropene	.492	.388	21.3	
Trichloroethene	.464	.389	16.0	
Dibromochloromethane	.602	.480	20.2	
1,1,2-Trichloroethane	.399	.335	15.9	
Benzene	.952	.806	15.3	
trans-1,3-Dichloropropene	.455	.339	25.6	
Bromoform	# .483	.372	22.9	#
4-Methyl-2-Pentanone	.679	.568	16.3	
2-Hexanone	.576	.476	17.3	
Tetrachloroethene	.551	.509	7.5	
1,1,2,2-Tetrachloroethane	# .939	.795	15.3	#
Toluene	* .751	.700	6.9	*
Chlorobenzene	#1.089	1.015	6.8	#
Ethylbenzene	* .478	.442	7.5	*
Styrene	.955	.819	14.2	
Xylene (total)	.672	.529	21.4	
Toluene-d8	1.165	1.224	5.1	
Bromofluorobenzene	.816	.850	4.1	
1,2-Dichloroethane-d4	1.889	1.809	4.2	

CKQ050IHV 1

05/18/90 0840
OWAC -- SPS

Sample: VSTD050 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	160	8:00	1	1.000	A BB	28983.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	372	18:36	13	1.000	A BB	133918.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	467	23:21	36	1.000	A BB	114280.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	218	10:54	1	1.362	A BB	64681.	50.000 PPB	100.0	19	1,2-DICHLOROETHANE-D4
42	98	445	22:15	36	0.953	A BB	129355.	50.000 PPB	100.0	42	TOLUENE-D8
46	95	545	27:15	36	1.167	A BB	88459.	50.000 PPB	100.0	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	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	10:54	0	1.362	1.00	50.00	50.00	2.232	2.232	1.00	19	1,2-DICHLOROETHANE-D4
42	22:15	0	0.953	1.00	50.00	50.00	1.132	1.132	1.00	42	TOLUENE-D8
46	27:15	0	1.167	1.00	50.00	50.00	0.774	0.774	1.00	46	BROMOFLUOROBENZENE

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

CKQ050IHV 2

05/18/90 0840
OWAC -- SPS

Sample: VSTD050 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	19	0:57	1	0.119	A BB	46470.	55.000 PPB		2	CHLOROMETHANE
3	94	32	1:36	1	0.200	A BB	44398.	55.000 PPB		3	BROMOMETHANE
4	62	41	2:03	1	0.256	A BV	40185.	50.000 PPB		4	VINYL CHLORIDE
5	64	56	2:48	1	0.350	A BB	27681.	55.000 PPB		5	CHLOROETHANE
6	84	91	4:33	1	0.569	A BB	45728.	50.000 PPB		6	METHYLENE CHLORIDE
7	43	111	5:33	1	0.694	A BB	20982.	50.000 PPB		7	ACETONE
8	56	113	5:39	1	0.706	A BB	4827.	50.000 PPB		8	ACROLEIN
9	53	126	6:18	1	0.788	A BV	11291.	50.000 PPB		9	ACRYLONITRILE
10	76	125	6:15	1	0.781	A BV	101370.	50.000 PPB		10	CARBON DISULFIDE
11	101	136	6:48	1	0.850	A BB	65630.	50.000 PPB		11	TRICHLOROFLUOROMETHANE
12	96	152	7:36	1	0.950	A BB	32208.	50.000 PPB		12	1,1-DICHLOROETHENE
14	63	177	8:51	1	1.106	A BV	75896.	50.000 PPB		14	1,1-DICHLOROETHANE
15	71	181	9:03	1	1.131	A BB	4910.	50.000 PPB		15	TETRAHYDROFURAN
16	96	194	9:42	1	1.212	A BB	39415.	50.000 PPB		16	1,2-DICHLOROETHENE (TOTAL)
17	83	203	10:09	1	1.269	A BB	94473.	50.000 PPB		17	CHLOROFORM
18	62	220	11:00	1	1.375	A BB	68901.	50.000 PPB		18	1,2-DICHLOROETHANE
20	72	224	11:12	1	1.400	A BB	5298.	50.000 PPB		20	2-BUTANONE
21	101	210	10:30	13	0.565	A BB	73200.	50.000 PPB		21	FREON TF
22	97	242	12:06	13	0.651	A BB	71781.	50.000 PPB		22	1,1,1-TRICHLOROETHANE
23	117	250	12:30	13	0.672	A VB	70171.	50.000 PPB		23	CARBON TETRACHLORIDE
24	43	262	13:06	13	0.704	A BV	88664.	50.000 PPB		24	VINYL ACETATE
25	83	263	13:09	13	0.707	A BB	89485.	50.000 PPB		25	BROMODICHLOROMETHANE
26	63	291	14:33	13	0.782	A BB	53143.	50.000 PPB		26	1,2-DICHLOROPROPANE
27	75	298	14:54	13	0.801	A BB	71970.	50.000 PPB		27	CIS-1,3-DICHLOROPROPENE
28	130	309	15:27	13	0.831	A BB	60334.	50.000 PPB		28	TRICHLOROETHENE
29	129	318	15:54	13	0.855	A BB	82652.	50.000 PPB		29	DIBROMOCHLOROMETHANE
30	98	365	18:15	13	0.981	A BB	31543.	50.000 PPB		30	METHYLCYCLOHEXANE
31	97	321	16:03	13	0.863	A VB	55695.	50.000 PPB		31	1,1,2-TRICHLOROETHANE
32	78	321	16:03	13	0.863	A BB	140947.	50.000 PPB		32	BENZENE
33	75	323	16:09	13	0.868	A BB	65547.	50.000 PPB		33	TRANS-1,3-DICHLOROPROPENE
34	63	345	17:15	13	0.927	A BB	25941.	50.000 PPB		34	2-CHLOROETHYLVINYLETHER
35	173	370	18:30	13	0.995	A BB	67754.	50.000 PPB		35	BROMOFORM
37	43	384	19:12	36	0.822	A BB	85995.	50.000 PPB		37	4-METHYL-2-PENTANONE
38	43	416	20:48	36	0.891	A BB	73718.	50.000 PPB		38	2-HEXANONE
39	83	416	20:48	36	0.891	A BB	110219.	50.000 PPB		39	1,1,2,2-TETRACHLOROETHANE
40	164	421	21:03	36	0.901	A BB	63157.	50.000 PPB		40	TETRACHLOROETHENE
41	56	438	21:54	36	0.938	A BB	41496.	50.000 PPB		41	BUTYL ACETATE
43	92	449	22:27	36	0.961	A BB	88776.	50.000 PPB		43	TOLUENE
44	112	470	23:30	36	1.006	A BB	118490.	50.000 PPB		44	CHLOROBENZENE
45	106	507	25:21	36	1.086	A BB	52217.	50.000 PPB		45	ETHYLBENZENE
47	104	570	28:30	36	1.221	A BB	102343.	50.000 PPB		47	STYRENE
48	106	576	28:48	36	1.233	A BV	68959.	50.000 PPB		48	M-XYLENE
49	106	589	29:27	36	1.261	A VB	37161.	30.000 PPB		49	O- & P-XYLENE
50	146	655	32:45	36	1.403	A BB	92523.	50.000 PPB		50	O-DICHLOROBENZENE
51	55	161	8:03	1	1.006	A BB	29860.	50.000 PPB		51	CYCLOPENTANE
52	106	576	28:48	36	1.233	A BV	68959.	50.000 PPB		52	XYLENE (TOTAL)
53	45	141	7:03	1	0.881	A BB	1817.	50.000 PPB		53	2-PROPANOL

000287

CKQ050IHV 3

05/18/90 0840
OWAC -- SPS

Sample: VSTD050 CRV#CKQ
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKQ Submitted by: AQUTEC
Volume: 5.000 ml

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	0:57	0	0.119	1.00	55.00	55.00	1.458	1.458	1.00	2	CHLOROMETHANE
3	1:36	0	0.200	1.00	55.00	55.00	1.393	1.393	1.00	3	BROMOMETHANE
4	2:03	0	0.256	1.00	50.00	50.00	1.387	1.387	1.00	4	VINYL CHLORIDE
5	2:48	0	0.350	1.00	55.00	55.00	0.868	0.868	1.00	5	CHLOROETHANE
6	4:33	0	0.569	1.00	50.00	50.00	1.578	1.578	1.00	6	METHYLENE CHLORIDE
7	5:33	0	0.694	1.00	50.00	50.00	0.724	0.724	1.00	7	ACETONE
8	5:39	0	0.706	1.00	50.00	50.00	0.167	0.167	1.00	8	ACROLEIN
9	6:18	0	0.788	1.00	50.00	50.00	0.390	0.390	1.00	9	ACRYLONITRILE
10	6:15	0	0.781	1.00	50.00	50.00	3.498	3.498	1.00	10	CARBON DISULFIDE
11	6:48	0	0.850	1.00	50.00	50.00	2.264	2.264	1.00	11	TRICHLOROFLUOROMETHANE
12	7:36	0	0.950	1.00	50.00	50.00	1.111	1.111	1.00	12	1,1-DICHLOROETHENE
14	8:51	0	1.106	1.00	50.00	50.00	2.619	2.619	1.00	14	1,1-DICHLOROETHANE
15	9:03	0	1.131	1.00	50.00	50.00	0.169	0.169	1.00	15	TETRAHYDROFURAN
16	9:42	0	1.212	1.00	50.00	50.00	1.360	1.360	1.00	16	1,2-DICHLOROETHENE (TOTAL)
17	10:09	0	1.269	1.00	50.00	50.00	3.260	3.260	1.00	17	CHLOROFORM
18	11:00	0	1.375	1.00	50.00	50.00	2.377	2.377	1.00	18	1,2-DICHLOROETHANE
20	11:12	0	1.400	1.00	50.00	50.00	0.183	0.183	1.00	20	2-BUTANONE
21	10:30	0	0.565	1.00	50.00	50.00	0.547	0.547	1.00	21	FREON TF
22	12:06	0	0.651	1.00	50.00	50.00	0.536	0.536	1.00	22	1,1,1-TRICHLOROETHANE
23	12:30	0	0.672	1.00	50.00	50.00	0.524	0.524	1.00	23	CARBON TETRACHLORIDE
24	13:06	0	0.704	1.00	50.00	50.00	0.662	0.662	1.00	24	VINYL ACETATE
25	13:09	0	0.707	1.00	50.00	50.00	0.668	0.668	1.00	25	BROMODICHLOROMETHANE
26	14:33	0	0.782	1.00	50.00	50.00	0.397	0.397	1.00	26	1,2-DICHLOROPROPANE
27	14:54	0	0.801	1.00	50.00	50.00	0.537	0.537	1.00	27	CIS-1,3-DICHLOROPROPENE
28	15:27	0	0.831	1.00	50.00	50.00	0.451	0.451	1.00	28	TRICHLOROETHENE
29	15:54	0	0.855	1.00	50.00	50.00	0.617	0.617	1.00	29	DIBROMOCHLOROMETHANE
30	18:15	0	0.981	1.00	50.00	50.00	0.236	0.236	1.00	30	METHYLCYCLOHEXANE
31	16:03	0	0.863	1.00	50.00	50.00	0.416	0.416	1.00	31	1,1,2-TRICHLOROETHANE
32	16:03	0	0.863	1.00	50.00	50.00	1.052	1.052	1.00	32	BENZENE
33	16:09	0	0.868	1.00	50.00	50.00	0.489	0.489	1.00	33	TRANS-1,3-DICHLOROPROPENE
34	17:15	0	0.927	1.00	50.00	50.00	0.194	0.194	1.00	34	2-CHLOROETHYLVINYLETHER
35	18:30	0	0.995	1.00	50.00	50.00	0.506	0.506	1.00	35	BROMOFORM
37	19:12	0	0.822	1.00	50.00	50.00	0.752	0.752	1.00	37	4-METHYL-2-PENTANONE
38	20:48	0	0.891	1.00	50.00	50.00	0.645	0.645	1.00	38	2-HEXANONE
39	20:48	0	0.891	1.00	50.00	50.00	0.964	0.964	1.00	39	1,1,2,2-TETRACHLOROETHANE
40	21:03	0	0.901	1.00	50.00	50.00	0.553	0.553	1.00	40	TETRACHLOROETHENE
41	21:54	0	0.938	1.00	50.00	50.00	0.363	0.363	1.00	41	BUTYL ACETATE
43	22:27	0	0.961	1.00	50.00	50.00	0.777	0.777	1.00	43	TOLUENE
44	23:30	0	1.006	1.00	50.00	50.00	1.037	1.037	1.00	44	CHLOROBENZENE
45	25:21	0	1.086	1.00	50.00	50.00	0.457	0.457	1.00	45	ETHYLBENZENE
47	28:30	0	1.221	1.00	50.00	50.00	0.896	0.896	1.00	47	STYRENE
48	28:48	0	1.233	1.00	50.00	50.00	0.603	0.603	1.00	48	M-XYLENE
49	29:27	0	1.261	1.00	30.00	30.00	0.542	0.542	1.00	49	O- & P-XYLENE
50	32:45	0	1.403	1.00	50.00	50.00	0.810	0.810	1.00	50	O-DICHLOROBENZENE
51	8:03	0	1.006	1.00	50.00	50.00	1.030	1.030	1.00	51	CYCLOPENTANE
52	28:48	0	1.233	1.00	50.00	50.00	0.603	0.603	1.00	52	XYLENE (TOTAL)
53	7:03	0	0.881	1.00	50.00	50.00	0.063	0.063	1.00	53	2-PROPANOL

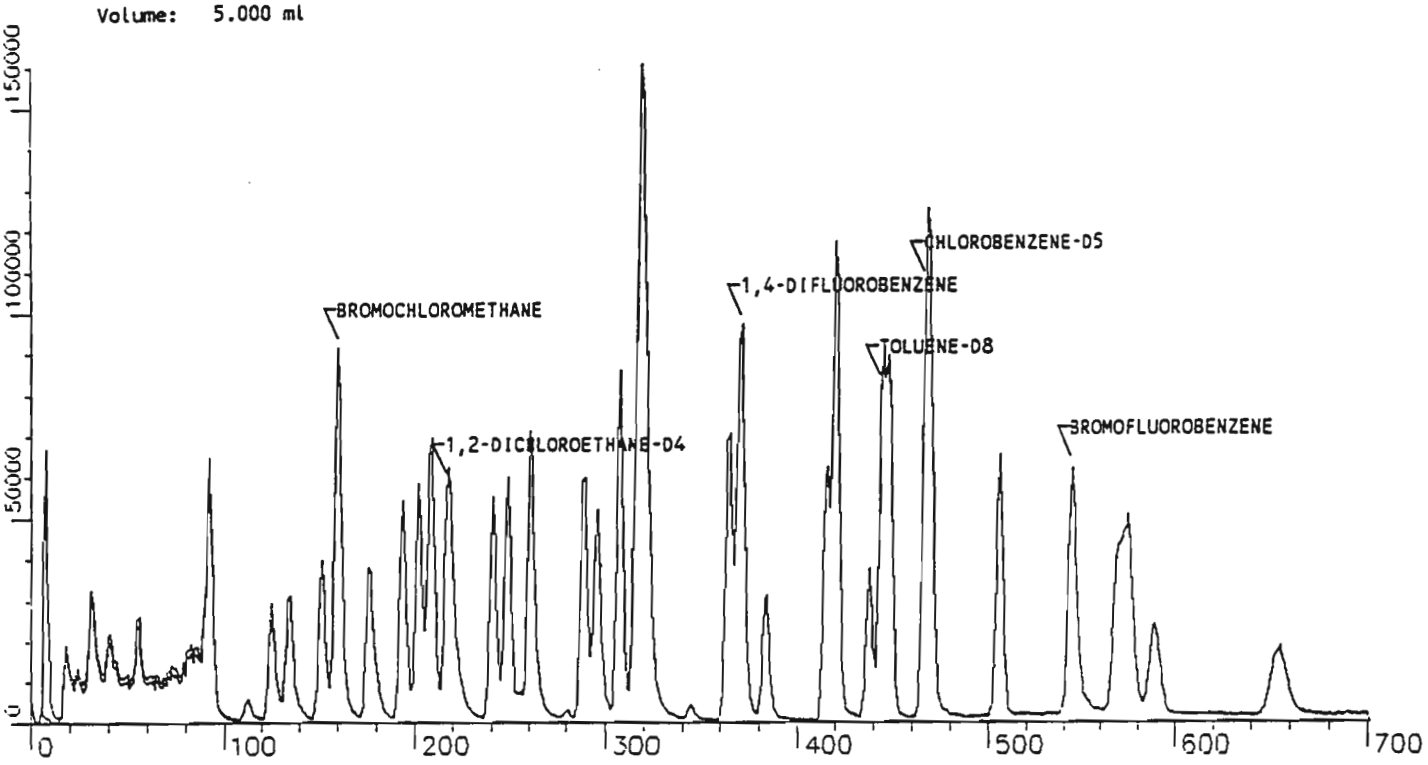
PROCEDURE: TCA DIAGNOSTIC REPORT 5/18/90 9:25:06
DATA FILE: CKQ050IHV
REFERENCE: JTAB11
NAME LIST: UM INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: UMRET1

STANDARDS PROC	USED	POSS	RMS	PLUS UNKNOWNS PROC	USED	POSS	RMS	LIST NAMES STANDARD/UNKNOWN
1	1	1	0	13	11	1	64	UMRET1/UMUNK1
2	2	1	0	14	13	16	56	UMRET2/UMUNK2
2	2	1	0	13	13	4	48	UMRET2/UMUNK3
2	2	1	0	9	9	1	55	UMRET3/UMUNK4
1	1	1	0	8	8	2	58	UMRET4/UMUNK5

52 COMPOUNDS PROCESSED: 49 FOUND

COMPOUND NO	LIB	ENTRY	SEARCH REF	PRED	SEL	DELTA	PEAKS	SAT FIT	PEAKS	CHRO M/Z	TOP	DELTA	PEAKS
1	UM	1	-157	160	160	.	1	985	.	128	160	.	1
2	UM	2	-17	19	19	.	1	988	.	50	19	.	1
3	UM	3	-29	31	32	1	1	961	.	94	32	.	1
4	UM	4	-39	42	41	-1	1	1000	.	62	41	.	1
5	UM	5	-53	56	56	.	1	995	.	64	56	.	1
6	UM	6	-90	93	92	-1	1	997	.	84	91	-1	1
7	UM	7	-108	111	111	.	1	981	.	43	111	.	1
8	UM	8	-109	112	113	1	1	998	.	56	113	.	1
9	UM	9	-123	126	.	.	.	.	.	53	126	.	1
10	UM	10	-122	125	125	.	1	998	.	76	125	.	1
11	UM	11	-133	136	135	-1	1	993	.	101	136	1	1
12	UM	12	-149	152	152	.	1	994	.	96	152	.	1
13	UM	53	-138	141	.	.	.	.	.	45	141	.	1
14	UM	13	-368	372	372	.	1	994	.	114	372	.	1
15	UM	51	-158	161	161	.	1	990	.	55	161	.	1
16	UM	14	-174	177	177	.	1	999	.	63	177	.	1
17	UM	15	-177	180	.	.	.	.	.	71	181	.	1
18	UM	16	-191	194	195	1	1	997	.	96	194	-1	1
19	UM	17	-201	204	203	-1	2	997	.	83	203	.	1
20	UM	18	-217	220	220	.	1	977	.	62	220	.	1
21	UM	19	-215	218	218	.	1	999	.	65	218	.	1
22	UM	20	-220	223	224	1	4	996	.	72	224	.	1
23	UM	21	-207	210	210	.	1	999	.	101	210	.	1
24	UM	22	-240	243	243	.	1	997	.	97	242	-1	1
25	UM	23	-247	250	250	.	2	992	.	117	250	.	1
26	UM	24	-258	261	262	1	1	997	.	43	262	.	1
27	UM	25	-260	263	263	.	1	986	.	83	263	.	1
28	UM	26	-288	291	291	.	1	981	.	63	291	.	1
29	UM	27	-294	297	298	1	2	976	.	75	298	.	1
30	UM	28	-306	309	310	1	1	996	.	130	309	-1	1
31	UM	29	-315	318	318	.	1	1000	.	129	318	.	1
32	UM	30	-362	366	366	.	1	990	.	98	365	-1	1
33	UM	31	-318	322	321	-1	1	997	.	97	321	.	1
34	UM	32	-317	320	321	1	1	993	.	78	321	.	1
35	UM	33	-320	324	323	-1	2	994	.	75	323	.	1
36	UM	34	-342	346	345	-1	1	990	.	63	345	.	1
37	UM	35	-366	370	370	.	1	985	.	173	370	.	1
38	UM	36	-464	468	468	.	1	993	.	117	467	-1	1
39	UM	37	-381	384	384	.	1	984	.	43	384	.	1
40	UM	38	-412	416	416	.	1	957	.	43	416	.	1
41	UM	39	-413	417	416	-1	1	999	.	83	416	.	1
42	UM	40	-418	422	421	-1	1	982	.	164	421	.	1
43	UM	41	-435	439	438	-1	1	991	.	56	438	.	1
44	UM	42	-441	445	445	.	1	993	.	98	445	.	1
45	UM	43	-445	449	449	.	1	993	.	92	449	.	1
46	UM	44	-466	470	470	.	1	1000	.	112	470	.	1
47	UM	45	-502	506	507	1	1	994	.	106	507	.	1
48	UM	46	-541	545	545	.	1	994	.	95	545	.	1
49	UM	47	-565	570	570	.	1	997	.	104	570	.	1
50	UM	48	-571	576	576	.	2	997	.	106	576	.	1
51	UM	49	-584	589	589	.	1	988	.	106	589	.	1
52	UM	50	-650	655	654	-1	1	994	.	146	655	1	1

Sample: VSTD050 CRV#CKT-B
Conditions: GC/MS OWAC
Method: CLP.VOL Matrix: STANDARD Curve: CKT Submitted by: AQUTEC
Volume: 5.000 ml



No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
1	128	160	8:00	1	1.000	A BB	28436.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	371	18:33	13	1.000	A BB	115331.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	467	23:21	36	1.000	A BB	90357.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	217	10:51	1	1.356	A BV	54617.	50.000 PPB	100.0	19	1,2-DICHLOROETHANE-D4
42	98	444	22:12	36	0.951	A BB	107271.	50.000 PPB	100.0	42	TOLUENE-D8
46	95	545	27:15	36	1.167	A BB	49631.	50.000 PPB	100.0	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	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	1.00	50.00	50.00	1.921	1.921	1.00	19	1,2-DICHLOROETHANE-D4
42	22:12	0	0.951	1.00	50.00	50.00	1.187	1.187	1.00	42	TOLUENE-D8
46	27:15	0	1.167	1.00	50.00	50.00	0.549	0.549	1.00	46	BROMOFLUOROBENZENE

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

CKT050BHV 2

05/22/90 0626
OWAC -- KLK

Sample: VSTD050 CRV#CKT-B
Conditions: GC/MS OWAC
Method: CLP.VOL Matrix: STANDARD Curve: CKT 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	0.112	A BB	26671.	55.000 PPB		2	CHLOROMETHANE
3	94	31	1:33	1	0.194	A BB	30610.	55.000 PPB		3	BROMOMETHANE
4	62	40	2:00	1	0.250	A BV	24171.	50.000 PPB		4	VINYL CHLORIDE
5	64	55	2:45	1	0.344	A BB	20544.	55.000 PPB		5	CHLOROETHANE
6	84	92	4:36	1	0.575	A BB	35819.	50.000 PPB		6	METHYLENE CHLORIDE
7	43	112	5:36	1	0.700	A BB	11038.	50.000 PPB		7	ACETONE
10	76	125	6:15	1	0.781	A BV	82897.	50.000 PPB		10	CARBON DISULFIDE
12	96	152	7:36	1	0.950	A BB	27361.	50.000 PPB		12	1,1-DICHLOROETHENE
14	63	176	8:48	1	1.100	A BB	66200.	50.000 PPB		14	1,1-DICHLOROETHANE
16	96	194	9:42	1	1.212	A BB	36598.	50.000 PPB		16	1,2-DICHLOROETHENE (TOTAL)
17	83	202	10:06	1	1.262	A BB	76462.	50.000 PPB		17	CHLOROFORM
18	62	219	10:57	1	1.369	A BB	54993.	50.000 PPB		18	1,2-DICHLOROETHANE
20	72	223	11:09	1	1.394	A BB	3753.	50.000 PPB		20	2-BUTANONE
22	97	241	12:03	13	0.650	A BB	58008.	50.000 PPB		22	1,1,1-TRICHLOROETHANE
23	117	249	12:27	13	0.671	A VB	57723.	50.000 PPB		23	CARBON TETRACHLORIDE
24	43	261	13:03	13	0.704	A BB	62193.	50.000 PPB		24	VINYL ACETATE
25	83	262	13:06	13	0.706	A BB	72228.	50.000 PPB		25	BROMODICHLOROMETHANE
26	63	290	14:30	13	0.782	A BV	44271.	50.000 PPB		26	1,2-DICHLOROPROPANE
27	75	296	14:48	13	0.798	A BB	56813.	50.000 PPB		27	CIS-1,3-DICHLOROPROPENE
28	130	308	15:24	13	0.830	A BB	52246.	50.000 PPB		28	TRICHLOROETHENE
29	129	316	15:48	13	0.852	A BB	65885.	50.000 PPB		29	DIBROMOCHLOROMETHANE
31	97	319	15:57	13	0.860	A VB	42068.	50.000 PPB		31	1,1,2-TRICHLOROETHANE
32	78	319	15:57	13	0.860	A BB	109293.	50.000 PPB		32	BENZENE
33	75	322	16:06	13	0.868	A BB	47635.	50.000 PPB		33	TRANS-1,3-DICHLOROPROPENE
34	63	345	17:15	13	0.930	A BB	2566.	50.000 PPB		34	2-CHLOROETHYLVINYLETHER
35	173	369	18:27	13	0.995	A BB	35504.	50.000 PPB		35	BROMOFORM
37	43	384	19:12	36	0.822	A BV	53662.	50.000 PPB		37	4-METHYL-2-PENTANONE
38	43	416	20:48	36	0.891	A BB	43465.	50.000 PPB		38	2-HEXANONE
39	83	415	20:45	36	0.889	A BB	45427.	50.000 PPB		39	1,1,2,2-TETRACHLOROETHANE
40	164	420	21:00	36	0.899	A BB	47658.	50.000 PPB		40	TETRACHLOROETHENE
43	92	448	22:24	36	0.959	A BB	68380.	50.000 PPB		43	TOLUENE
44	112	469	23:27	36	1.004	A BB	88988.	50.000 PPB		44	CHLOROBENZENE
45	106	506	25:18	36	1.084	A BB	32188.	50.000 PPB		45	ETHYLBENZENE
47	104	569	28:27	36	1.218	A BB	58629.	50.000 PPB		47	STYRENE
48	106	575	28:45	36	1.231	A BV	40064.	50.000 PPB		48	M-XYLENE
49	106	588	29:24	36	1.259	A VB	21115.	30.000 PPB		49	O- & P-XYLENE
52	106	575	28:45	36	1.231	A BV	40064.	50.000 PPB		52	XYLENE (TOTAL)

CKT050BHV 3

05/22/90 0626
OWAC -- KLK

Sample: VSTD050 CRV#CKT-B
Conditions: GC/MS OWAC
Method: CLP.VOL Matrix: STANDARD Curve: CKT Submitted by: AQUTEC
Volume: 5.000 ml

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	0:54	0	0.112	1.00	55.00	55.00	0.853	0.853	1.00	2	CHLOROMETHANE
3	1:33	0	0.194	1.00	55.00	55.00	0.979	0.979	1.00	3	BROMOMETHANE
4	2:00	0	0.250	1.00	50.00	50.00	0.850	0.850	1.00	4	VINYL CHLORIDE
5	2:45	0	0.344	1.00	55.00	55.00	0.657	0.657	1.00	5	CHLOROETHANE
6	4:36	0	0.575	1.00	50.00	50.00	1.260	1.260	1.00	6	METHYLENE CHLORIDE
7	5:36	0	0.700	1.00	50.00	50.00	0.388	0.388	1.00	7	ACETONE
10	6:15	0	0.781	1.00	50.00	50.00	2.915	2.915	1.00	10	CARBON DISULFIDE
12	7:36	0	0.950	1.00	50.00	50.00	0.962	0.962	1.00	12	1,1-DICHLOROETHENE
14	8:48	0	1.100	1.00	50.00	50.00	2.328	2.328	1.00	14	1,1-DICHLOROETHANE
16	9:42	0	1.212	1.00	50.00	50.00	1.287	1.287	1.00	16	1,2-DICHLOROETHENE (TOTAL)
17	10:06	0	1.262	1.00	50.00	50.00	2.689	2.689	1.00	17	CHLOROFORM
18	10:57	0	1.369	1.00	50.00	50.00	1.934	1.934	1.00	18	1,2-DICHLOROETHANE
20	11:09	0	1.394	1.00	50.00	50.00	0.132	0.132	1.00	20	2-BUTANONE
22	12:03	0	0.650	1.00	50.00	50.00	0.503	0.503	1.00	22	1,1,1-TRICHLOROETHANE
23	12:27	0	0.671	1.00	50.00	50.00	0.500	0.500	1.00	23	CARBON TETRACHLORIDE
24	13:03	0	0.704	1.00	50.00	50.00	0.539	0.539	1.00	24	VINYL ACETATE
25	13:06	0	0.706	1.00	50.00	50.00	0.626	0.626	1.00	25	BROMODICHLOROMETHANE
26	14:30	0	0.782	1.00	50.00	50.00	0.384	0.384	1.00	26	1,2-DICHLOROPROPANE
27	14:48	0	0.798	1.00	50.00	50.00	0.493	0.493	1.00	27	CIS-1,3-DICHLOROPROPENE
28	15:24	0	0.830	1.00	50.00	50.00	0.453	0.453	1.00	28	TRICHLOROETHENE
29	15:48	0	0.852	1.00	50.00	50.00	0.571	0.571	1.00	29	DIBROMOCHLOROMETHANE
31	15:57	0	0.860	1.00	50.00	50.00	0.365	0.365	1.00	31	1,1,2-TRICHLOROETHANE
32	15:57	0	0.860	1.00	50.00	50.00	0.948	0.948	1.00	32	BENZENE
33	16:06	0	0.868	1.00	50.00	50.00	0.413	0.413	1.00	33	TRANS-1,3-DICHLOROPROPENE
34	17:15	0	0.930	1.00	50.00	50.00	0.022	0.022	1.00	34	2-CHLOROETHYLVINYLETHER
35	18:27	0	0.995	1.00	50.00	50.00	0.308	0.308	1.00	35	BROMOFORM
37	19:12	0	0.822	1.00	50.00	50.00	0.594	0.594	1.00	37	4-METHYL-2-PENTANONE
38	20:48	0	0.891	1.00	50.00	50.00	0.481	0.481	1.00	38	2-HEXANONE
39	20:45	0	0.889	1.00	50.00	50.00	0.503	0.503	1.00	39	1,1,2,2-TETRACHLOROETHANE
40	21:00	0	0.899	1.00	50.00	50.00	0.527	0.527	1.00	40	TETRACHLOROETHENE
43	22:24	0	0.959	1.00	50.00	50.00	0.757	0.757	1.00	43	TOLUENE
44	23:27	0	1.004	1.00	50.00	50.00	0.985	0.985	1.00	44	CHLOROBENZENE
45	25:18	0	1.084	1.00	50.00	50.00	0.356	0.356	1.00	45	ETHYLBENZENE
47	28:27	0	1.218	1.00	50.00	50.00	0.649	0.649	1.00	47	STYRENE
48	28:45	0	1.231	1.00	50.00	50.00	0.443	0.443	1.00	48	M-XYLENE
49	29:24	0	1.259	1.00	30.00	30.00	0.389	0.389	1.00	49	O- & P-XYLENE
52	28:45	0	1.231	1.00	50.00	50.00	0.443	0.443	1.00	52	XYLENE (TOTAL)

PROCEDURE: TCA DIAGNOSTIC REPORT 5/22/90 7:04:28
DATA FILE: CKTO50BHV
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	13	12	60	120	UMRET1/UMUNK1
2	2	1	0	14	13	120	88	UMRET2/UMUNK2
2	2	1	0	13	13	4	79	UMRET2/UMUNK3
2	2	1	0	9	9	4	36	UMRET3/UMUNK4
1	1	1	0	8	8	8	91	UMRET4/UMUNK5

52 COMPOUNDS PROCESSED, 50 FOUND

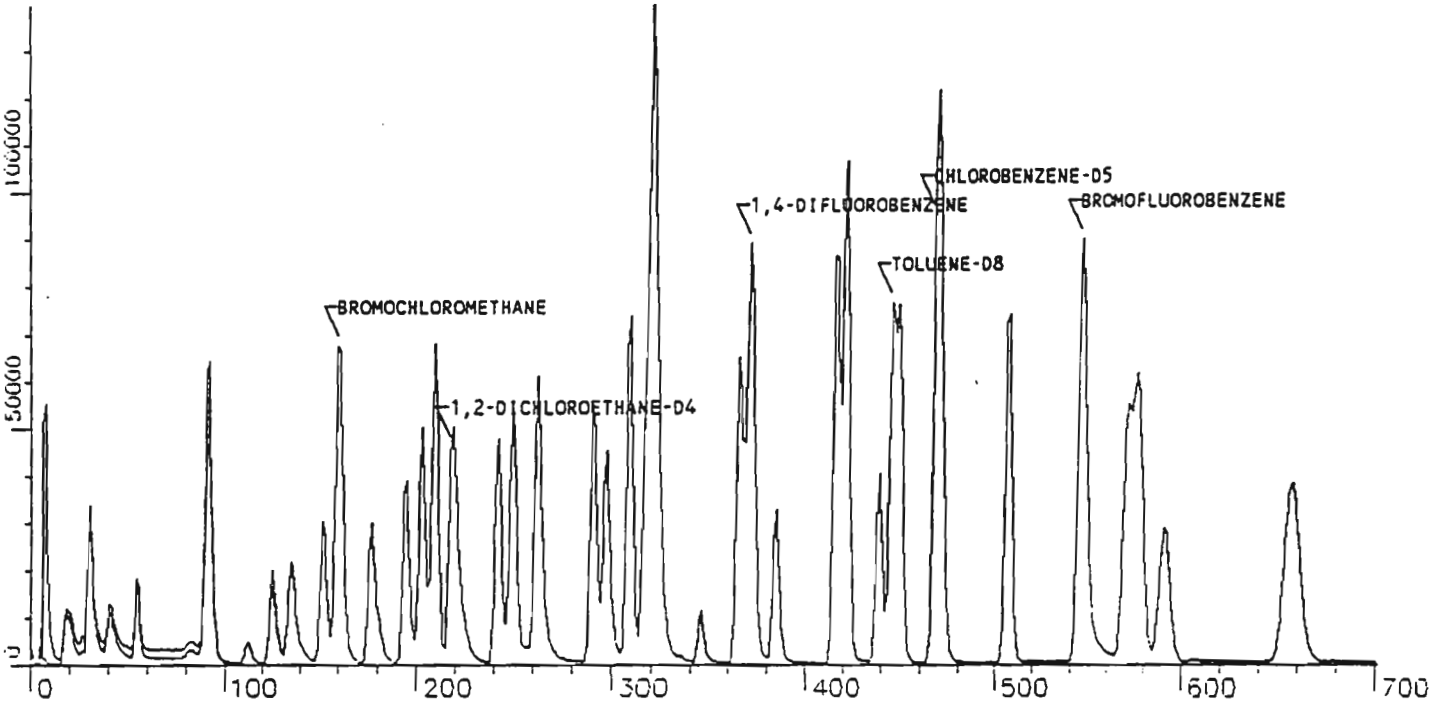
COMPOUND			SEARCH					SAT		CHRO			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	UM	1	-158	160	160	.	1	985	.	128	160	.	1
2	UM	2	-18	18	18	.	3	995	.	50	18	.	1
3	UM	3	-30	30	31	1	1	974	.	94	31	.	1
4	UM	4	-40	41	40	-1	2	999	.	62	40	.	1
5	UM	5	-55	56	55	-1	5	995	.	64	55	.	1
6	UM	6	-89	90	92	2	1	987	.	84	92	.	1
7	UM	7	-113	114	112	-2	2	995	.	43	112	.	1
8	UM	8	-112	113	114	1	1	994	.	56	114	.	1
9	UM	9	-125	126	127	1	1	953	.	53	127	.	1
10	UM	10	-122	123	125	2	1	1000	.	76	125	.	1
11	UM	11	-134	136	135	-1	1	994	.	101	134	-1	1
12	UM	12	-151	153	152	-1	1	997	.	96	152	.	1
13	UM	53	-144	146	.	.	.	.	.	45	.	.	.
14	UM	13	-371	371	371	.	1	996	.	114	371	.	1
15	UM	51	-160	160	161	1	1	995	.	55	161	.	1
16	UM	14	-176	176	176	.	1	999	.	63	176	.	1
17	UM	15	-180	180	.	.	.	.	.	71	180	.	1
18	UM	16	-193	193	194	1	2	992	.	96	194	.	1
19	UM	17	-202	202	202	.	2	995	.	83	202	.	1
20	UM	18	-219	219	219	.	1	967	.	62	219	.	1
21	UM	19	-217	217	217	.	3	996	.	65	217	.	1
22	UM	20	-224	224	223	-1	5	996	.	72	223	.	1
23	UM	21	-210	210	209	-1	1	1000	.	101	209	.	1
24	UM	22	-242	242	241	-1	1	996	.	97	241	.	1
25	UM	23	-250	250	249	-1	2	998	.	117	249	.	1
26	UM	24	-262	262	261	-1	1	996	.	43	261	.	1
27	UM	25	-262	262	261	-1	1	977	.	83	262	1	1
28	UM	26	-291	291	290	-1	1	976	.	63	290	.	1
29	UM	27	-297	297	296	-1	2	985	.	75	296	.	1
30	UM	28	-309	309	308	-1	1	996	.	130	308	.	1
31	UM	29	-316	316	316	.	1	995	.	129	316	.	1
32	UM	30	-365	364	365	1	1	995	.	98	364	-1	1
33	UM	31	-320	320	320	.	1	994	.	97	319	-1	1
34	UM	32	-320	320	319	-1	1	992	.	78	319	.	1
35	UM	33	-322	322	322	.	2	993	.	75	322	.	1
36	UM	34	-345	345	345	.	1	972	.	63	345	.	1
37	UM	35	-369	368	369	1	1	978	.	173	369	.	1
38	UM	36	-467	467	467	.	1	987	.	117	467	.	1
39	UM	37	-384	384	384	.	1	984	.	43	384	.	1
40	UM	38	-416	416	416	.	1	955	.	43	416	.	1
41	UM	39	-415	415	415	.	2	997	.	83	415	.	1
42	UM	40	-421	421	420	-1	1	984	.	164	420	.	1
43	UM	41	-438	438	438	.	2	991	.	56	438	.	1
44	UM	42	-444	444	444	.	1	992	.	98	444	.	1

48	UM	46	-545	545	545	.	1	994	.	95	545	.	1
49	UM	47	-569	569	570	1	2	996	.	104	569	-1	1
50	UM	48	-575	575	575	.	2	996	.	106	575	.	1
51	UM	49	-589	589	588	-1	2	986	.	106	588	.	1
52	UM	50	-653	654	655	1	1	989	.	146	654	-1	1

CKV050AHV 1

05/24/90 0451
OWAC -- KLK

Sample: VSTD050 CRV#CKV
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKV Submitted by: AQUTEC
Volume: 5.000 ml



No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
1	128	160	8:00	1	1.000	A BB	22675.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	372	18:36	13	1.000	A BB	108949.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	468	23:24	36	1.000	A BB	87212.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	218	10:54	1	1.362	A BB	50034.	50.000 PPB	100.0	19	1,2-DICHLOROETHANE-D4
42	98	446	22:18	36	0.953	A BB	94888.	50.000 PPB	100.0	42	TOLUENE-D8
46	95	547	27:21	36	1.169	A BB	74864.	50.000 PPB	100.0	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	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	10:54	0	1.362	1.00	50.00	50.00	2.207	2.207	1.00	19	1,2-DICHLOROETHANE-D4
42	22:18	0	0.953	1.00	50.00	50.00	1.088	1.088	1.00	42	TOLUENE-D8
46	27:21	0	1.169	1.00	50.00	50.00	0.858	0.858	1.00	46	BROMOFLUOROBENZENE

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

CKV050AHV 2

05/24/90 0451
OWAC -- KLK

Sample: VSTD050 CRV#CKV
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKV Submitted by: AQUTEC
Volume: 5.000 ml

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
2	50	19	0:57	1	0.119	A BB	23341.	55.000 PPB		2	CHLOROMETHANE
3	94	31	1:33	1	0.194	A BB	33518.	55.000 PPB		3	BROMOMETHANE
4	62	41	2:03	1	0.256	A BB	24965.	50.000 PPB		4	VINYL CHLORIDE
5	64	55	2:45	1	0.344	A BB	17254.	55.000 PPB		5	CHLOROETHANE
6	84	91	4:33	1	0.569	A BB	41543.	50.000 PPB		6	METHYLENE CHLORIDE
7	43	112	5:36	1	0.700	A BB	10460.	50.000 PPB		7	ACETONE
8	56	113	5:39	1	0.706	A BB	2254.	50.000 PPB		8	ACROLEIN
9	53	126	6:18	1	0.788	A BB	6201.	50.000 PPB		9	ACRYLONITRILE
10	76	125	6:15	1	0.781	A BB	52735.	50.000 PPB		10	CARBON DISULFIDE
11	101	135	6:45	1	0.844	A BB	42836.	50.000 PPB		11	TRICHLOROFLUOROMETHANE
12	96	152	7:36	1	0.950	A BB	18758.	50.000 PPB		12	1,1-DICHLOROETHENE
14	63	177	8:51	1	1.106	A BB	51689.	50.000 PPB		14	1,1-DICHLOROETHANE
15	71	181	9:03	1	1.131	A BB	2479.	50.000 PPB		15	TETRAHYDROFURAN
16	96	195	9:45	1	1.219	A BB	24388.	50.000 PPB		16	1,2-DICHLOROETHENE (TOTAL)
17	83	203	10:09	1	1.269	A BB	63403.	50.000 PPB		17	CHLOROFORM
18	62	220	11:00	1	1.375	A BB	51910.	50.000 PPB		18	1,2-DICHLOROETHANE
20	72	225	11:15	1	1.406	A BB	2246.	50.000 PPB		20	2-BUTANONE
21	101	210	10:30	13	0.565	A BB	46242.	50.000 PPB		21	FREON TF
22	97	243	12:09	13	0.653	A BB	50959.	50.000 PPB		22	1,1,1-TRICHLOROETHANE
23	117	250	12:30	13	0.672	A VB	51968.	50.000 PPB		23	CARBON TETRACHLORIDE
24	43	262	13:06	13	0.704	A BB	57858.	50.000 PPB		24	VINYL ACETATE
25	83	263	13:09	13	0.707	A BB	57703.	50.000 PPB		25	BROMODICHLOROMETHANE
26	63	291	14:33	13	0.782	A BB	36847.	50.000 PPB		26	1,2-DICHLOROPROPANE
27	75	298	14:54	13	0.801	A BB	44886.	50.000 PPB		27	CIS-1,3-DICHLOROPROPENE
28	130	310	15:30	13	0.833	A BB	41508.	50.000 PPB		28	TRICHLOROETHENE
29	129	317	15:51	13	0.852	A BB	55032.	50.000 PPB		29	DIBROMOCHLOROMETHANE
30	98	366	18:18	13	0.984	A BB	14974.	50.000 PPB		30	METHYLCYCLOHEXANE
31	97	321	16:03	13	0.863	A VB	35350.	50.000 PPB		31	1,1,2-TRICHLOROETHANE
32	78	321	16:03	13	0.863	A BB	83684.	50.000 PPB		32	BENZENE
33	75	323	16:09	13	0.868	A BB	42471.	50.000 PPB		33	TRANS-1,3-DICHLOROPROPENE
34	63	346	17:18	13	0.930	A BB	8676.	50.000 PPB		34	2-CHLOROETHYLVINYLETHER
35	173	370	18:30	13	0.995	A BB	42701.	50.000 PPB		35	BROMOFORM
37	43	385	19:15	36	0.823	A BB	58473.	50.000 PPB		37	4-METHYL-2-PENTANONE
38	43	417	20:51	36	0.891	A BB	47328.	50.000 PPB		38	2-HEXANONE
39	83	416	20:48	36	0.889	A BB	69893.	50.000 PPB		39	1,1,2,2-TETRACHLOROETHANE
40	164	421	21:03	36	0.900	A BB	44011.	50.000 PPB		40	TETRACHLOROETHENE
41	56	439	21:57	36	0.938	A BB	24159.	50.000 PPB		41	BUTYL ACETATE
43	92	450	22:30	36	0.962	A BB	54489.	50.000 PPB		43	TOLUENE
44	112	471	23:33	36	1.006	A BB	83267.	50.000 PPB		44	CHLOROBENZENE
45	106	507	25:21	36	1.083	A BB	36137.	50.000 PPB		45	ETHYLBENZENE
47	104	572	28:36	36	1.222	A BB	74237.	50.000 PPB		47	STYRENE
48	106	577	28:51	36	1.233	A BV	48223.	50.000 PPB		48	M-XYLENE
49	106	591	29:33	36	1.263	A VB	26046.	30.000 PPB		49	O- & P-XYLENE
50	146	657	32:51	36	1.404	A BB	80415.	50.000 PPB		50	O-DICHLOROBENZENE
51	55	161	8:03	1	1.006	A BB	16488.	50.000 PPB		51	CYCLOPENTANE
52	106	577	28:51	36	1.233	A BV	48223.	50.000 PPB		52	XYLENE (TOTAL)
53	45	141	7:03	1	0.881	A BB	1138.	50.000 PPB		53	2-PROPANOL

CKV050AHV 3

05/24/90 0451
OWAC -- KLK

Sample: VSTD050 CRV#CKV
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKV Submitted by: AQUTEC
Volume: 5.000 ml

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	0:57	0	0.119	1.00	55.00	55.00	0.936	0.936	1.00	2	CHLOROMETHANE
3	1:33	0	0.194	1.00	55.00	55.00	1.344	1.344	1.00	3	BROMOMETHANE
4	2:03	0	0.256	1.00	50.00	50.00	1.101	1.101	1.00	4	VINYL CHLORIDE
5	2:45	0	0.344	1.00	55.00	55.00	0.692	0.692	1.00	5	CHLOROETHANE
6	4:33	0	0.569	1.00	50.00	50.00	1.832	1.832	1.00	6	METHYLENE CHLORIDE
7	5:36	0	0.700	1.00	50.00	50.00	0.461	0.461	1.00	7	ACETONE
8	5:39	0	0.706	1.00	50.00	50.00	0.099	0.099	1.00	8	ACROLEIN
9	6:18	0	0.788	1.00	50.00	50.00	0.273	0.273	1.00	9	ACRYLONITRILE
10	6:15	0	0.781	1.00	50.00	50.00	2.326	2.326	1.00	10	CARBON DISULFIDE
11	6:45	0	0.844	1.00	50.00	50.00	1.889	1.889	1.00	11	TRICHLOROFLUOROMETHANE
12	7:36	0	0.950	1.00	50.00	50.00	0.827	0.827	1.00	12	1,1-DICHLOROETHENE
14	8:51	0	1.106	1.00	50.00	50.00	2.280	2.280	1.00	14	1,1-DICHLOROETHANE
15	9:03	0	1.131	1.00	50.00	50.00	0.109	0.109	1.00	15	TETRAHYDROFURAN
16	9:45	0	1.219	1.00	50.00	50.00	1.076	1.076	1.00	16	1,2-DICHLOROETHENE (TOTAL)
17	10:09	0	1.269	1.00	50.00	50.00	2.796	2.796	1.00	17	CHLOROFORM
18	11:00	0	1.375	1.00	50.00	50.00	2.289	2.289	1.00	18	1,2-DICHLOROETHANE
20	11:15	0	1.406	1.00	50.00	50.00	0.099	0.099	1.00	20	2-BUTANONE
21	10:30	0	0.565	1.00	50.00	50.00	0.424	0.424	1.00	21	FREON TF
22	12:09	0	0.653	1.00	50.00	50.00	0.468	0.468	1.00	22	1,1,1-TRICHLOROETHANE
23	12:30	0	0.672	1.00	50.00	50.00	0.477	0.477	1.00	23	CARBON TETRACHLORIDE
24	13:06	0	0.704	1.00	50.00	50.00	0.531	0.531	1.00	24	VINYL ACETATE
25	13:09	0	0.707	1.00	50.00	50.00	0.530	0.530	1.00	25	BROMODICHLOROMETHANE
26	14:33	0	0.782	1.00	50.00	50.00	0.338	0.338	1.00	26	1,2-DICHLOROPROPANE
27	14:54	0	0.801	1.00	50.00	50.00	0.412	0.412	1.00	27	CIS-1,3-DICHLOROPROPENE
28	15:30	0	0.833	1.00	50.00	50.00	0.381	0.381	1.00	28	TRICHLOROETHENE
29	15:51	0	0.852	1.00	50.00	50.00	0.505	0.505	1.00	29	DIBROMOCHLOROMETHANE
30	18:18	0	0.984	1.00	50.00	50.00	0.137	0.137	1.00	30	METHYLCYCLOHEXANE
31	16:03	0	0.863	1.00	50.00	50.00	0.324	0.324	1.00	31	1,1,2-TRICHLOROETHANE
32	16:03	0	0.863	1.00	50.00	50.00	0.768	0.768	1.00	32	BENZENE
33	16:09	0	0.868	1.00	50.00	50.00	0.390	0.390	1.00	33	TRANS-1,3-DICHLOROPROPENE
34	17:18	0	0.930	1.00	50.00	50.00	0.080	0.080	1.00	34	2-CHLOROETHYLVINYLETHER
35	18:30	0	0.995	1.00	50.00	50.00	0.392	0.392	1.00	35	BROMOFORM
37	19:15	0	0.823	1.00	50.00	50.00	0.670	0.670	1.00	37	4-METHYL-2-PENTANONE
38	20:51	0	0.891	1.00	50.00	50.00	0.543	0.543	1.00	38	2-HEXANONE
39	20:48	0	0.889	1.00	50.00	50.00	0.801	0.801	1.00	39	1,1,2,2-TETRACHLOROETHANE
40	21:03	0	0.900	1.00	50.00	50.00	0.505	0.505	1.00	40	TETRACHLOROETHENE
41	21:57	0	0.938	1.00	50.00	50.00	0.277	0.277	1.00	41	BUTYL ACETATE
43	22:30	0	0.962	1.00	50.00	50.00	0.625	0.625	1.00	43	TOLUENE
44	23:33	0	1.006	1.00	50.00	50.00	0.955	0.955	1.00	44	CHLOROBENZENE
45	25:21	0	1.083	1.00	50.00	50.00	0.414	0.414	1.00	45	ETHYLBENZENE
47	28:36	0	1.222	1.00	50.00	50.00	0.851	0.851	1.00	47	STYRENE
48	28:51	0	1.233	1.00	50.00	50.00	0.553	0.553	1.00	48	M-XYLENE
49	29:33	0	1.263	1.00	30.00	30.00	0.498	0.498	1.00	49	O- & P-XYLENE
50	32:51	0	1.404	1.00	50.00	50.00	0.922	0.922	1.00	50	O-DICHLOROBENZENE
51	8:03	0	1.006	1.00	50.00	50.00	0.727	0.727	1.00	51	CYCLOPENTANE
52	28:51	0	1.233	1.00	50.00	50.00	0.553	0.553	1.00	52	XYLENE (TOTAL)
53	7:03	0	0.881	1.00	50.00	50.00	0.050	0.050	1.00	53	2-PROPANOL

PROCEDURE: TCA DIAGNOSTIC REPORT 5/24/90 5:25:37
DATA FILE: CKVOSOAHV
REFERENCE: UTAB11
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	122	UMRET1/UMUNK1
2	2	1	0	2	2	2	60	UMRET2/UMUNK2
2	2	1	0	2	2	2	48	UMRET2/UMUNK3
3	1	1	0	3	3	1	43	UMRET3/UMUNK4
4	1	1	0	4	4	1	81	UMRET4/UMUNK5

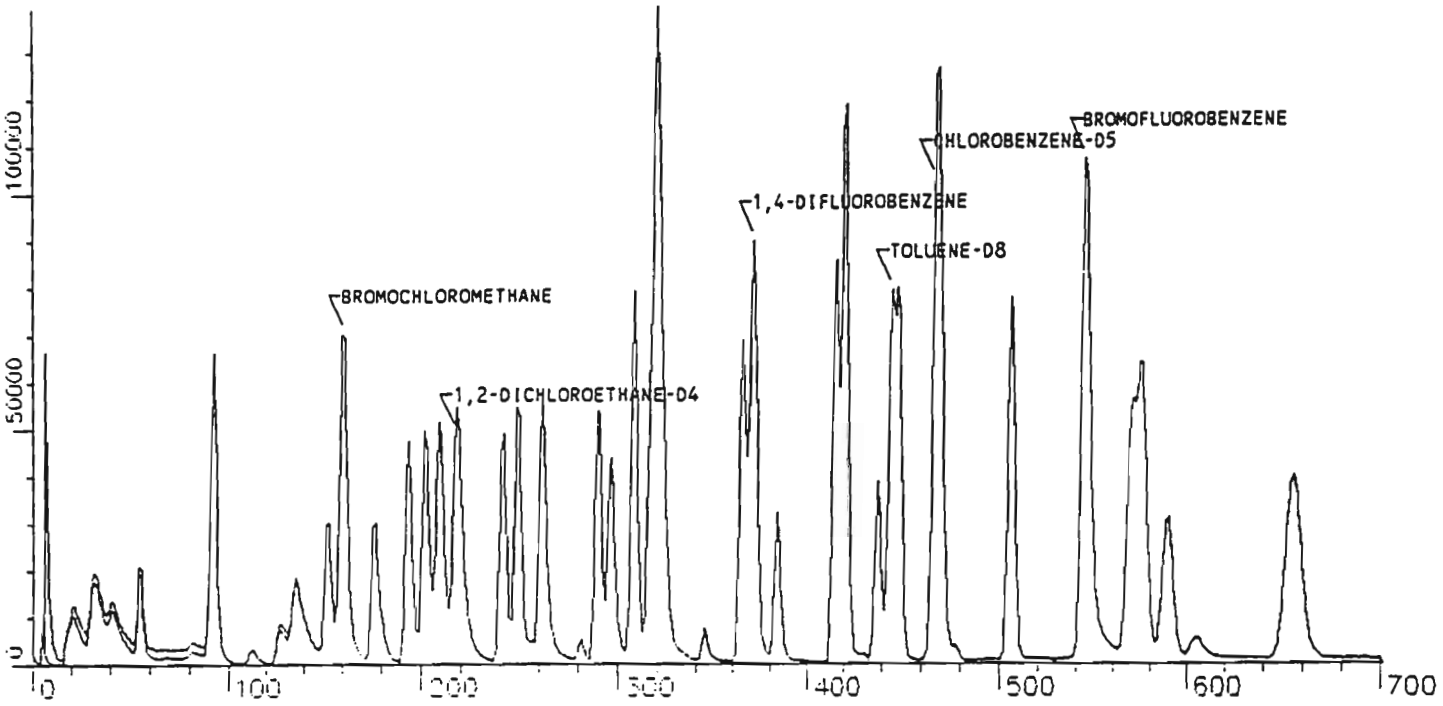
52 COMPOUNDS PROCESSED. 48 FOUND

COMPOUND			SEARCH				SAT		CHRO			
NO	LIB	ENTRY	REF	POSS	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	UM	1	-158	158	158		1	985		128	160		
2	UM	2	-18	18	18		1	991		50	19		
3	UM	3	-30	30	30		1	980		94	31		
4	UM	4	-40	40	40		1	990		62	41		
5	UM	5	-85	85	86	-1	1	997		64	86		
6	UM	6	-89	90	90	-2	1	993		84	90	-1	
7	UM	7	-113	113	113	-2	1	994		43	115		
8	UM	8	-112	113	113	1	1	999		56	114	-1	
9	UM	9	-125	126						53	126		
10	UM	10	-122	122	122	2	1	997		76	122		
11	UM	11	-124	124	124	2	1	993		101	124		
12	UM	12	-151	150	151	-1	1	993		96	152		
53	UM	53	-144	146						45			
13	UM	13	-371	371			1	999		114	372		
51	UM	51	-160	160			1	987		85	161		
14	UM	14	-176	176			1	1000		63	177		
15	UM	15	-180	181			1	981		71	181		
16	UM	16	-193	194		1	1	1000		96	196		
17	UM	17	-202	202			2	997		83	203		
18	UM	18	-219	220			1	996		62	220		
19	UM	19	-217	218			1	997		65	218		
20	UM	20	-224	225			1	998		72	225		
21	UM	21	-210	211		-1	1	995		101	212		
22	UM	22	-242	243			1	995		97	243		
23	UM	23	-250	251		-1	2	994		117	250		
24	UM	24	-262	263		-1	1	994		80	262		
25	UM	25	-262	263			1	991		83	263		
26	UM	26	-291	292		-1	1	990		80	291		
27	UM	27	-297	298			2	982		75	298		
28	UM	28	-309	309			1	997		130	311		
29	UM	29	-316	317		1	1	1000		129	317	-1	
30	UM	30	-365	366			1	985		98	366		
31	UM	31	-320	321			1	992		97	321		
32	UM	32	-320	321			1	997		78	321		
33	UM	33	-322	323			2	995		75	323		
34	UM	34	-345	346			1	982		63	346		
35	UM	35	-369	370			1	987		173	370		
36	UM	36	-467	468						117	468		
37	UM	37	-384	385			1	990		80	385		
38	UM	38	-416	417			1	960		43	417		
39	UM	39	-415	416			1	996		83	416		
40	UM	40	-421	422			1	978		164	421	-1	
41	UM	41	-438	439			1	997		56	439		
42	UM	42	-444	445		1	1	994		98	446		
43	UM	43	-448	449		1	1	994		92	450		
44	UM	44	-469	470			1	997		112	471		
45	UM	45	-506	506			1	996		106	507	-1	
46	UM	46	-545	546		-1	1	996		95	547	1	
47	UM	47	-569	571		1	1	998		104	572		
48	UM	48	-575	577			2	997		106	577		
49	UM	49	-589	591			2	994		106	591		
50	UM	50	-653	656		1	1	994		146	657		

CKV050BHV 1

05/24/90 1852
OWAC -- CMS

Sample: VSTD050 CRV#CKV-8
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKV Submitted by: AQUTEC
Volume: 5.000 ml



No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
1	128	160	8:00	1	1.000	A BB	22907.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	371	18:33	13	1.000	A BB	106745.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	467	23:21	36	1.000	A BB	87207.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	217	10:51	1	1.356	A BB	48902.	50.000 PPB	100.0	19	1,2-DICHLOROETHANE-D4
42	98	445	22:15	36	0.953	A BB	93093.	50.000 PPB	100.0	42	TOLUENE-D8
46	95	545	27:15	36	1.167	A BB	73933.	50.000 PPB	100.0	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	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	1.00	50.00	50.00	2.135	2.135	1.00	19	1,2-DICHLOROETHANE-D4
42	22:15	0	0.953	1.00	50.00	50.00	1.067	1.067	1.00	42	TOLUENE-D8
46	27:15	0	1.167	1.00	50.00	50.00	0.848	0.848	1.00	46	BROMOFLUOROBENZENE

CKV050BHV (05/24/90 18:52) RFs loaded on OWAC 5/24/90 19:49:57

CKV050BHV 2

05/24/90 1852
OWAC -- CMS

Sample: VSTD050 CRV#CKV-B
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKV Submitted by: AQUTEC
Volume: 5.000 ml

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
2	50	21	1:03	1	0.131	A BB	32741.	55.000 PPB		2	CHLOROMETHANE
3	94	32	1:36	1	0.200	A BB	39512.	55.000 PPB		3	BROMOMETHANE
4	62	41	2:03	1	0.256	A BB	30807.	50.000 PPB		4	VINYL CHLORIDE
5	64	55	2:45	1	0.344	A VB	21629.	55.000 PPB		5	CHLOROETHANE
6	84	92	4:36	1	0.575	A BB	42597.	50.000 PPB		6	METHYLENE CHLORIDE
7	43	112	5:36	1	0.700	A BB	7931.	50.000 PPB		7	ACETONE
8	56	114	5:42	1	0.713	A BB	1807.	50.000 PPB		8	ACROLEIN
9	53	127	6:21	1	0.794	A BB	6068.	50.000 PPB		9	ACRYLONITRILE
10	76	128	6:24	1	0.800	A BB	45342.	50.000 PPB		10	CARBON DISULFIDE
11	101	136	6:48	1	0.850	A BB	46442.	50.000 PPB		11	TRICHLOROFLUOROMETHANE
12	96	152	7:36	1	0.950	A BB	20249.	50.000 PPB		12	1,1-DICHLOROETHENE
14	63	176	8:48	1	1.100	A BB	51862.	50.000 PPB		14	1,1-DICHLOROETHANE
15	71	180	9:00	1	1.125	A BB	2589.	50.000 PPB		15	TETRAHYDROFURAN
16	96	194	9:42	1	1.212	A BB	25368.	50.000 PPB		16	1,2-DICHLOROETHENE (TOTAL)
17	83	202	10:06	1	1.262	A BV	63825.	50.000 PPB		17	CHLOROFORM
18	62	219	10:57	1	1.369	A BB	50337.	50.000 PPB		18	1,2-DICHLOROETHANE
20	72	224	11:12	1	1.400	A BB	1815.	50.000 PPB		20	2-BUTANONE
21	101	209	10:27	13	0.563	A BB	47168.	50.000 PPB		21	FREON TF
22	97	242	12:06	13	0.652	A BB	50531.	50.000 PPB		22	1,1,1-TRICHLOROETHANE
23	117	249	12:27	13	0.671	A VB	53769.	50.000 PPB		23	CARBON TETRACHLORIDE
24	43	261	13:03	13	0.704	A BB	51346.	50.000 PPB		24	VINYL ACETATE
25	83	262	13:06	13	0.706	A BB	54974.	50.000 PPB		25	BROMODICHLOROMETHANE
26	63	290	14:30	13	0.782	A BB	37028.	50.000 PPB		26	1,2-DICHLOROPROPANE
27	75	297	14:51	13	0.801	A BB	42247.	50.000 PPB		27	CIS-1,3-DICHLOROPROPENE
28	130	309	15:27	13	0.833	A BB	42267.	50.000 PPB		28	TRICHLOROETHENE
29	129	317	15:51	13	0.854	A BB	50748.	50.000 PPB		29	DIBROMOCHLOROMETHANE
30	98	365	18:15	13	0.984	A BB	15694.	50.000 PPB		30	METHYLCYCLOHEXANE
31	97	320	16:00	13	0.863	A VB	35604.	50.000 PPB		31	1,1,2-TRICHLOROETHANE
32	78	320	16:00	13	0.863	A BB	85915.	50.000 PPB		32	BENZENE
33	75	322	16:06	13	0.868	A BB	38904.	50.000 PPB		33	TRANS-1,3-DICHLOROPROPENE
34	63	345	17:15	13	0.930	A BB	5331.	50.000 PPB		34	2-CHLOROETHYLVINYLETHER
35	173	369	18:27	13	0.995	A BB	41097.	50.000 PPB		35	BROMOFORM
37	43	384	19:12	36	0.822	A BB	54783.	50.000 PPB		37	4-METHYL-2-PENTANONE
38	43	416	20:48	36	0.891	A BB	46712.	50.000 PPB		38	2-HEXANONE
39	83	415	20:45	36	0.889	A BB	65971.	50.000 PPB		39	1,1,2,2-TETRACHLOROETHANE
40	164	420	21:00	36	0.899	A BB	49269.	50.000 PPB		40	TETRACHLOROETHENE
41	56	438	21:54	36	0.938	A BB	23431.	50.000 PPB		41	BUTYL ACETATE
43	92	449	22:27	36	0.961	A BB	56084.	50.000 PPB		43	TOLUENE
44	112	470	23:30	36	1.006	A BB	84170.	50.000 PPB		44	CHLOROBENZENE
45	106	506	25:18	36	1.084	A BB	36737.	50.000 PPB		45	ETHYLBENZENE
47	104	570	28:30	36	1.221	A BB	72504.	50.000 PPB		47	STYRENE
48	106	576	28:48	36	1.233	A BV	48612.	50.000 PPB		48	M-XYLENE
49	106	590	29:30	36	1.263	A VB	25856.	30.000 PPB		49	O- & P-XYLENE
50	146	655	32:45	36	1.403	A BB	81820.	50.000 PPB		50	O-DICHLOROBENZENE
51	55	161	8:03	1	1.006	A BB	17499.	50.000 PPB		51	CYCLOPENTANE
52	106	576	28:48	36	1.233	A BV	48612.	50.000 PPB		52	XYLENE (TOTAL)
53	45	141	7:03	1	0.881	A BB	945.	50.000 PPB		53	2-PROPANOL

CKV050BHV 3

05/24/90 1852
OWAC -- CMS

Sample: VSTD050 CRV#CKV-B
Conditions: GC/MS OWAC
Method: 624 Matrix: STANDARD Curve: CKV Submitted by: AQUTEC
Volume: 5.000 ml

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	1:03	0	0.131	1.00	55.00	55.00	1.299	1.299	1.00	2	CHLOROMETHANE
3	1:36	0	0.200	1.00	55.00	55.00	1.568	1.568	1.00	3	BROMOMETHANE
4	2:03	0	0.256	1.00	50.00	50.00	1.345	1.345	1.00	4	VINYL CHLORIDE
5	2:45	0	0.344	1.00	55.00	55.00	0.858	0.858	1.00	5	CHLOROETHANE
6	4:36	0	0.575	1.00	50.00	50.00	1.860	1.860	1.00	6	METHYLENE CHLORIDE
7	5:36	0	0.700	1.00	50.00	50.00	0.346	0.346	1.00	7	ACETONE
8	5:42	0	0.713	1.00	50.00	50.00	0.079	0.079	1.00	8	ACROLEIN
9	6:21	0	0.794	1.00	50.00	50.00	0.265	0.265	1.00	9	ACRYLONITRILE
10	6:24	0	0.800	1.00	50.00	50.00	1.979	1.979	1.00	10	CARBON DISULFIDE
11	6:48	0	0.850	1.00	50.00	50.00	2.027	2.027	1.00	11	TRICHLOROFLUOROMETHANE
12	7:36	0	0.950	1.00	50.00	50.00	0.884	0.884	1.00	12	1,1-DICHLOROETHENE
14	8:48	0	1.100	1.00	50.00	50.00	2.264	2.264	1.00	14	1,1-DICHLOROETHANE
15	9:00	0	1.125	1.00	50.00	50.00	0.113	0.113	1.00	15	TETRAHYDROFURAN
16	9:42	0	1.212	1.00	50.00	50.00	1.107	1.107	1.00	16	1,2-DICHLOROETHENE (TOTAL)
17	10:06	0	1.262	1.00	50.00	50.00	2.786	2.786	1.00	17	CHLOROFORM
18	10:57	0	1.369	1.00	50.00	50.00	2.197	2.197	1.00	18	1,2-DICHLOROETHANE
20	11:12	0	1.400	1.00	50.00	50.00	0.079	0.079	1.00	20	2-BUTANONE
21	10:27	0	0.563	1.00	50.00	50.00	0.442	0.442	1.00	21	FREON TF
22	12:06	0	0.652	1.00	50.00	50.00	0.473	0.473	1.00	22	1,1,1-TRICHLOROETHANE
23	12:27	0	0.671	1.00	50.00	50.00	0.504	0.504	1.00	23	CARBON TETRACHLORIDE
24	13:03	0	0.704	1.00	50.00	50.00	0.481	0.481	1.00	24	VINYL ACETATE
25	13:06	0	0.706	1.00	50.00	50.00	0.515	0.515	1.00	25	BROMODICHLOROMETHANE
26	14:30	0	0.782	1.00	50.00	50.00	0.347	0.347	1.00	26	1,2-DICHLOROPROPANE
27	14:51	0	0.801	1.00	50.00	50.00	0.396	0.396	1.00	27	CIS-1,3-DICHLOROPROPENE
28	15:27	0	0.833	1.00	50.00	50.00	0.396	0.396	1.00	28	TRICHLOROETHENE
29	15:51	0	0.854	1.00	50.00	50.00	0.475	0.475	1.00	29	DIBROMOCHLOROMETHANE
30	18:15	0	0.984	1.00	50.00	50.00	0.147	0.147	1.00	30	METHYLCYCLOHEXANE
31	16:00	0	0.863	1.00	50.00	50.00	0.334	0.334	1.00	31	1,1,2-TRICHLOROETHANE
32	16:00	0	0.863	1.00	50.00	50.00	0.805	0.805	1.00	32	BENZENE
33	16:06	0	0.868	1.00	50.00	50.00	0.364	0.364	1.00	33	TRANS-1,3-DICHLOROPROPENE
34	17:15	0	0.930	1.00	50.00	50.00	0.050	0.050	1.00	34	2-CHLOROETHYLVINYLETHER
35	18:27	0	0.995	1.00	50.00	50.00	0.385	0.385	1.00	35	BROMOFORM
37	19:12	0	0.822	1.00	50.00	50.00	0.628	0.628	1.00	37	4-METHYL-2-PENTANONE
38	20:48	0	0.891	1.00	50.00	50.00	0.536	0.536	1.00	38	2-HEXANONE
39	20:45	0	0.889	1.00	50.00	50.00	0.756	0.756	1.00	39	1,1,2,2-TETRACHLOROETHANE
40	21:00	0	0.899	1.00	50.00	50.00	0.565	0.565	1.00	40	TETRACHLOROETHENE
41	21:54	0	0.938	1.00	50.00	50.00	0.269	0.269	1.00	41	BUTYL ACETATE
43	22:27	0	0.961	1.00	50.00	50.00	0.643	0.643	1.00	43	TOLUENE
44	23:30	0	1.006	1.00	50.00	50.00	0.965	0.965	1.00	44	CHLOROBENZENE
45	25:18	0	1.084	1.00	50.00	50.00	0.421	0.421	1.00	45	ETHYLBENZENE
47	28:30	0	1.221	1.00	50.00	50.00	0.831	0.831	1.00	47	STYRENE
48	28:48	0	1.233	1.00	50.00	50.00	0.557	0.557	1.00	48	M-XYLENE
49	29:30	0	1.263	1.00	30.00	30.00	0.494	0.494	1.00	49	O- & P-XYLENE
50	32:45	0	1.403	1.00	50.00	50.00	0.938	0.938	1.00	50	O-DICHLOROBENZENE
51	8:03	0	1.006	1.00	50.00	50.00	0.764	0.764	1.00	51	CYCLOPENTANE
52	28:48	0	1.233	1.00	50.00	50.00	0.557	0.557	1.00	52	XYLENE (TOTAL)
53	7:03	0	0.881	1.00	50.00	50.00	0.041	0.041	1.00	53	2-PROPANOL

PROCEDURE: TCA DIAGNOSTIC REPORT 5/24/90 19:29 15
DATA FILE: CKV050BHV
REFERENCE: UTA811
NAME LIST: UM INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: UMRET1

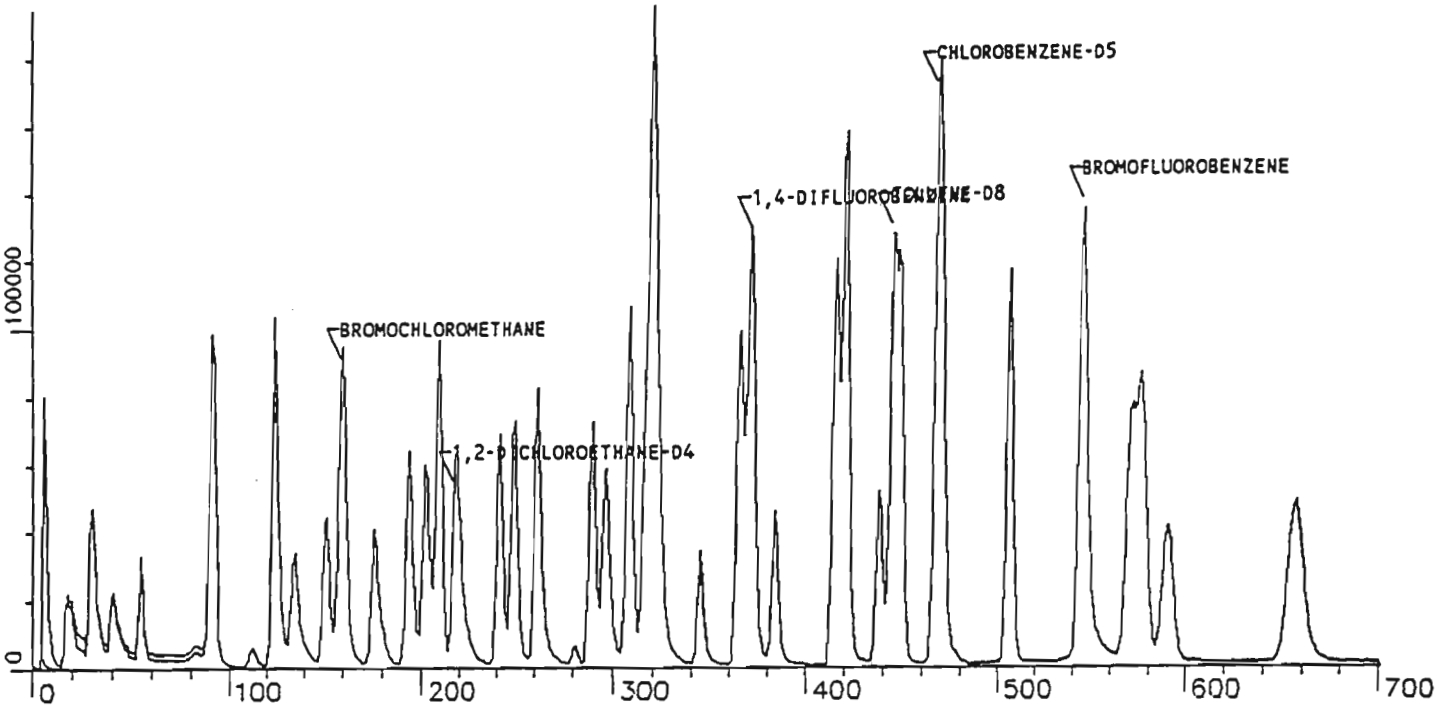
STANDARDS				PURE UNKNOWNS				LIST NAMES
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
1	1	1	0			1	187	UMRET1/UMUNK1
2	3	1	0			16	79	UMRET2/UMUNK2
3	3	1	0			4	67	UMRET2/UMUNK3
4	2	1	0			1	43	UMRET3/UMUNK4
5	1	1	0			4	69	UMRET4/UMUNK5

52 COMPOUNDS PROCESSED 50 FOUND

COMPOUND					CORRELATION			SAT	CHRO		
NO	LIB	ENTRY	REF	FREQ	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA PEAKS
	UM		-158	158			980		128	158	
	UM		-138	138			991		108	138	
	UM		-80	80			979		94	80	
	UM		-110	110			998		66	110	-1
	UM		-155	155			997		125	155	
	UM		-89	89			993		88	89	-1
	UM		-113	113			988		44	113	
	UM		-112	112			999		55	112	
	UM	8	-125	125			980		109	125	
	UM	10	-102	102		4	998		76	102	
	UM	11	-104	104			996		101	104	
	UM	12	-151	151		-1	995		80	151	
	UM	50	-144	144					46	144	
	UM	13	-371	371			996		114	371	
	UM	51	-160	160			986		30	160	
	UM	14	-176	176			996		63	176	
	UM	15	-180	180					71	180	
	UM	16	-193	193		1	997		95	193	
	UM	17	-202	202			995		83	202	
	UM	18	-219	219			989		60	219	
	UM	19	-217	217			997		65	217	
	UM	20	-224	224			995		72	224	
	UM	21	-210	210		-1	992		101	210	
	UM	22	-242	242			994		97	242	
	UM	23	-250	250		-1	995		117	250	
	UM	24	-262	262		-1	996		43	262	
	UM	25	-266	266		-1	985		80	266	
	UM	26	-291	291		-1	989		75	291	
	UM	27	-297	297			985		60	297	
	UM	28	-309	309			997		130	309	
	UM	29	-316	316		1	1000		117	316	
	UM	30	-365	365			986		98	365	
	UM	31	-320	320			992		97	320	
	UM	32	-320	320			995		78	320	
	UM	33	-322	322			995		78	322	
	UM	34	-345	345			976		63	345	
	UM	35	-369	369			990		173	369	
	UM	36	-467	467			994		117	467	
	UM	37	-384	384			992		43	384	
	UM	38	-416	416			957		43	416	
	UM	39	-415	415			997		83	415	
	UM	40	-421	421			975		164	421	-1
	UM	41	-438	438			1000		56	438	
	UM	42	-444	444		1	993		83	444	
	UM	43	-448	448		1	992		83	448	
	UM	44	-469	469			997		117	469	
	UM	45	-506	506		-1	994		106	506	
	UM	46	-545	545		-1	993		95	545	
	UM	47	-569	569			997		104	569	
	UM	48	-575	575			997		106	575	
	UM	49	-589	590			990		106	590	
	UM	50	-653	654		1	991		146	654	

CKW050BHV 1
05/30/90 0841
OWAC -- SPS

Sample: VSTD050 CRV#CKW-8
Conditions: GC/MS OWAC
Method: 8240 Matrix: STANDARD Curve: CKW Submitted by: AQUTEC
Volume: 5.000 mL



No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
1	128	159	7:57	1	1.000	A BB	35312.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	372	18:36	13	1.000	A BB	170082.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	468	23:24	36	1.000	A BB	136711.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	217	10:51	1	1.365	A BB	63889.	50.000 PPB	100.0	19	1,2-DICHLOROETHANE-D4
42	98	445	22:15	36	0.951	A BB	167395.	50.000 PPB	100.0	42	TOLUENE-D8
46	95	546	27:18	36	1.167	A BB	116181.	50.000 PPB	100.0	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	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	1.365	1.00	50.00	50.00	1.809	1.809	1.00	19	1,2-DICHLOROETHANE-D4
42	22:15	0	0.951	1.00	50.00	50.00	1.224	1.224	1.00	42	TOLUENE-D8
46	27:18	0	1.167	1.00	50.00	50.00	0.850	0.850	1.00	46	BROMOFLUOROBENZENE

CKW050BHV (05/30/90 8:41) RFs loaded on OWAC 5/30/90 9:43:24

CKW050BHV 2

05/30/90 0841
OWAC -- SPS

Sample: VSTD050 CRV#CKW-8
Conditions: GC/MS OWAC
Method: 8240 Matrix: STANDARD Curve: CKW 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	0.113	A BB	50925.	55.000 PPB		2	CHLOROMETHANE
3	94	30	1:30	1	0.189	A BB	61381.	55.000 PPB		3	BROMOMETHANE
4	62	41	2:03	1	0.258	A BB	51873.	50.000 PPB		4	VINYL CHLORIDE
5	64	55	2:45	1	0.346	A VB	35349.	55.000 PPB		5	CHLOROETHANE
6	84	91	4:33	1	0.572	A BB	69024.	50.000 PPB		6	METHYLENE CHLORIDE
7	43	112	5:36	1	0.704	A BB	9844.	50.000 PPB		7	ACETONE
8	56	113	5:39	1	0.711	A BB	5206.	50.000 PPB		8	ACROLEIN
9	53	126	6:18	1	0.792	A BB	10389.	50.000 PPB		9	ACRYLONITRILE
10	76	124	6:12	1	0.780	A BB	305304.	50.000 PPB		10	CARBON DISULFIDE
11	101	135	6:45	1	0.849	A BB	66668.	50.000 PPB		11	TRICHLOROFLUOROMETHANE
12	96	151	7:33	1	0.950	A BB	34219.	50.000 PPB		12	1,1-DICHLOROETHENE
14	63	176	8:48	1	1.107	A BB	70353.	50.000 PPB		14	1,1-DICHLOROETHANE
15	71	180	9:00	1	1.132	A BB	4179.	50.000 PPB		15	TETRAHYDROFURAN
16	96	194	9:42	1	1.220	A BB	43476.	50.000 PPB		16	1,2-DICHLOROETHENE (TOTAL)
17	83	202	10:06	1	1.270	A BB	86178.	50.000 PPB		17	CHLOROFORM
18	62	219	10:57	1	1.377	A BB	62207.	50.000 PPB		18	1,2-DICHLOROETHANE
20	72	225	11:15	1	1.415	A BB	3084.	50.000 PPB		20	2-BUTANONE
21	101	209	10:27	13	0.562	A BB	72887.	50.000 PPB		21	FREON TF
22	97	242	12:06	13	0.651	A BB	73109.	50.000 PPB		22	1,1,1-TRICHLOROETHANE
23	117	250	12:30	13	0.672	A VB	77566.	50.000 PPB		23	CARBON TETRACHLORIDE
24	43	262	13:06	13	0.704	A BV	78910.	50.000 PPB		24	VINYL ACETATE
25	83	262	13:06	13	0.704	A BB	79638.	50.000 PPB		25	BROMODICHLOROMETHANE
26	63	290	14:30	13	0.780	A BB	54707.	50.000 PPB		26	1,2-DICHLOROPROPANE
27	75	297	14:51	13	0.798	A BB	65927.	50.000 PPB		27	CIS-1,3-DICHLOROPROPENE
28	130	308	15:24	13	0.828	A BB	66246.	50.000 PPB		28	TRICHLOROETHENE
29	129	316	15:48	13	0.849	A BB	81654.	50.000 PPB		29	DIBROMOCHLOROMETHANE
30	98	365	18:15	13	0.981	A BB	30683.	50.000 PPB		30	METHYLCYCLOHEXANE
31	97	320	16:00	13	0.860	A VB	57018.	50.000 PPB		31	1,1,2-TRICHLOROETHANE
32	78	320	16:00	13	0.860	A BB	137121.	50.000 PPB		32	BENZENE
33	75	322	16:06	13	0.866	A BB	57614.	50.000 PPB		33	TRANS-1,3-DICHLOROPROPENE
34	63	345	17:15	13	0.927	A BB	29379.	50.000 PPB		34	2-CHLOROETHYLVINYLETHER
35	173	369	18:27	13	0.992	A BB	63290.	50.000 PPB		35	BROMOFORM
37	43	384	19:12	36	0.821	A BB	77684.	50.000 PPB		37	4-METHYL-2-PENTANONE
38	43	416	20:48	36	0.889	A BB	65130.	50.000 PPB		38	2-HEXANONE
39	83	415	20:45	36	0.887	A BB	108648.	50.000 PPB		39	1,1,2,2-TETRACHLOROETHANE
40	164	421	21:03	36	0.900	A BB	69640.	50.000 PPB		40	TETRACHLOROETHENE
41	56	438	21:54	36	0.936	A BB	35464.	50.000 PPB		41	BUTYL ACETATE
43	92	449	22:27	36	0.959	A BB	95642.	50.000 PPB		43	TOLUENE
44	112	470	23:30	36	1.004	A BB	138740.	50.000 PPB		44	CHLOROBENZENE
45	106	507	25:21	36	1.083	A BB	60471.	50.000 PPB		45	ETHYLBENZENE
47	104	571	28:33	36	1.220	A BV	112002.	50.000 PPB		47	STYRENE
48	106	577	28:51	36	1.233	A BV	72257.	50.000 PPB		48	M-XYLENE
49	106	591	29:33	36	1.263	A VB	38933.	30.000 PPB		49	O- & P-XYLENE
50	146	657	32:51	36	1.404	A BB	105308.	50.000 PPB		50	O-DICHLOROBENZENE
51	55	160	8:00	1	1.006	A BB	26771.	50.000 PPB		51	CYCLOPENTANE
52	106	577	28:51	36	1.233	A BV	72257.	50.000 PPB		52	XYLENE (TOTAL)
53	45	140	7:00	1	0.881	A BB	2707.	50.000 PPB		53	2-PROPANOL

Sample: VSTD050 CRV#CKW-B
Conditions: GC/MS OWAC
Method: 8240 Matrix: STANDARD Curve: CKW Submitted by: AQUTEC
Volume: 5.000 ml

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	0:54	0	0.113	1.00	55.00	55.00	1.311	1.311	1.00	2	CHLOROMETHANE
3	1:30	0	0.189	1.00	55.00	55.00	1.580	1.580	1.00	3	BROMOMETHANE
4	2:03	0	0.258	1.00	50.00	50.00	1.469	1.469	1.00	4	VINYL CHLORIDE
5	2:45	0	0.346	1.00	55.00	55.00	0.910	0.910	1.00	5	CHLOROETHANE
6	4:33	0	0.572	1.00	50.00	50.00	1.955	1.955	1.00	6	METHYLENE CHLORIDE
7	5:36	0	0.704	1.00	50.00	50.00	0.279	0.279	1.00	7	ACETONE
8	5:39	0	0.711	1.00	50.00	50.00	0.147	0.147	1.00	8	ACROLEIN
9	6:18	0	0.792	1.00	50.00	50.00	0.294	0.294	1.00	9	ACRYLONITRILE
10	6:12	0	0.780	1.00	50.00	50.00	8.646	8.646	1.00	10	CARBON DISULFIDE
11	6:45	0	0.849	1.00	50.00	50.00	1.888	1.888	1.00	11	TRICHLOROFLUOROMETHANE
12	7:33	0	0.950	1.00	50.00	50.00	0.969	0.969	1.00	12	1,1-DICHLOROETHENE
14	8:48	0	1.107	1.00	50.00	50.00	1.992	1.992	1.00	14	1,1-DICHLOROETHANE
15	9:00	0	1.132	1.00	50.00	50.00	0.118	0.118	1.00	15	TETRAHYDROFURAN
16	9:42	0	1.220	1.00	50.00	50.00	1.231	1.231	1.00	16	1,2-DICHLOROETHENE (TOTAL)
17	10:06	0	1.270	1.00	50.00	50.00	2.440	2.440	1.00	17	CHLOROFORM
18	10:57	0	1.377	1.00	50.00	50.00	1.762	1.762	1.00	18	1,2-DICHLOROETHANE
20	11:15	0	1.415	1.00	50.00	50.00	0.087	0.087	1.00	20	2-BUTANONE
21	10:27	0	0.562	1.00	50.00	50.00	0.429	0.429	1.00	21	FREON TF
22	12:06	0	0.651	1.00	50.00	50.00	0.430	0.430	1.00	22	1,1,1-TRICHLOROETHANE
23	12:30	0	0.672	1.00	50.00	50.00	0.456	0.456	1.00	23	CARBON TETRACHLORIDE
24	13:06	0	0.704	1.00	50.00	50.00	0.464	0.464	1.00	24	VINYL ACETATE
25	13:06	0	0.704	1.00	50.00	50.00	0.468	0.468	1.00	25	BROMODICHLOROMETHANE
26	14:30	0	0.780	1.00	50.00	50.00	0.322	0.322	1.00	26	1,2-DICHLOROPROPANE
27	14:51	0	0.798	1.00	50.00	50.00	0.388	0.388	1.00	27	CIS-1,3-DICHLOROPROPENE
28	15:24	0	0.828	1.00	50.00	50.00	0.389	0.389	1.00	28	TRICHLOROETHENE
29	15:48	0	0.849	1.00	50.00	50.00	0.480	0.480	1.00	29	DIBROMOCHLOROMETHANE
30	18:15	0	0.981	1.00	50.00	50.00	0.180	0.180	1.00	30	METHYLCYCLOHEXANE
31	16:00	0	0.860	1.00	50.00	50.00	0.335	0.335	1.00	31	1,1,2-TRICHLOROETHANE
32	16:00	0	0.860	1.00	50.00	50.00	0.806	0.806	1.00	32	BENZENE
33	16:06	0	0.866	1.00	50.00	50.00	0.339	0.339	1.00	33	TRANS-1,3-DICHLOROPROPENE
34	17:15	0	0.927	1.00	50.00	50.00	0.173	0.173	1.00	34	2-CHLOROETHYLVINYLETHER
35	18:27	0	0.992	1.00	50.00	50.00	0.372	0.372	1.00	35	BROMOFORM
37	19:12	0	0.821	1.00	50.00	50.00	0.568	0.568	1.00	37	4-METHYL-2-PENTANONE
38	20:48	0	0.889	1.00	50.00	50.00	0.476	0.476	1.00	38	2-HEXANONE
39	20:45	0	0.887	1.00	50.00	50.00	0.795	0.795	1.00	39	1,1,2,2-TETRACHLOROETHANE
40	21:03	0	0.900	1.00	50.00	50.00	0.509	0.509	1.00	40	TETRACHLOROETHENE
41	21:54	0	0.936	1.00	50.00	50.00	0.259	0.259	1.00	41	BUTYL ACETATE
43	22:27	0	0.959	1.00	50.00	50.00	0.700	0.700	1.00	43	TOLUENE
44	23:30	0	1.004	1.00	50.00	50.00	1.015	1.015	1.00	44	CHLOROBENZENE
45	25:21	0	1.083	1.00	50.00	50.00	0.442	0.442	1.00	45	ETHYLBENZENE
47	28:33	0	1.220	1.00	50.00	50.00	0.819	0.819	1.00	47	STYRENE
48	28:51	0	1.233	1.00	50.00	50.00	0.529	0.529	1.00	48	M-XYLENE
49	29:33	0	1.263	1.00	30.00	30.00	0.475	0.475	1.00	49	O- & P-XYLENE
50	32:51	0	1.404	1.00	50.00	50.00	0.770	0.770	1.00	50	O-DICHLOROBENZENE
51	8:00	0	1.006	1.00	50.00	50.00	0.758	0.758	1.00	51	CYCLOPENTANE
52	28:51	0	1.233	1.00	50.00	50.00	0.529	0.529	1.00	52	XYLENE (TOTAL)
53	7:00	0	0.881	1.00	50.00	50.00	0.077	0.077	1.00	53	2-PROPANOL

PROCEDURE: TCA DIAGNOSTIC REPORT 5/30/90 9:24:29
DATA FILE: CKW050BHV
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	11	1	95	UMRET1/UMUNK1
2	2	1	0	14	13	12	65	UMRET2/UMUNK2
2	2	1	0	13	13	4	57	UMRET2/UMUNK3
2	2	1	0	9	9	1	54	UMRET3/UMUNK4
1	1	1	0	8	8	4	97	UMRET4/UMUNK5

52 COMPOUNDS PROCESSED, 49 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	159	159	.	1	983	.	128	159	.	1
2	UM	2	-18	18	18	.	1	989	.	50	18	.	1
3	UM	3	-30	30	30	.	1	988	.	94	30	.	1
4	UM	4	-40	40	41	1	1	997	.	62	41	.	1
5	UM	5	-55	55	55	.	1	995	.	64	55	.	1
6	UM	6	-89	90	91	1	1	993	.	84	91	.	1
7	UM	7	-113	114	112	-2	1	984	.	43	112	.	1
8	UM	8	-112	113	113	.	1	998	.	56	113	.	1
9	UM	9	-125	126	.	.	.	.	.	53	126	.	1
10	UM	10	-122	123	124	1	1	996	.	76	124	.	1
11	UM	11	-134	135	135	.	1	992	.	101	135	.	1
12	UM	12	-151	152	151	-1	1	987	.	96	151	.	1
13	UM	53	-144	145	.	.	.	.	.	45	146	.	1
14	UM	13	-371	372	372	.	1	995	.	114	372	.	1
15	UM	51	-160	160	160	.	1	993	.	55	160	.	1
16	UM	14	-176	176	176	.	1	996	.	63	176	.	1
17	UM	15	-180	180	.	.	.	.	.	71	180	.	1
18	UM	16	-193	193	194	1	1	993	.	96	194	.	1
19	UM	17	-202	202	202	.	2	992	.	83	202	.	1
20	UM	18	-219	219	219	.	1	980	.	62	219	.	1
21	UM	19	-217	217	218	1	1	996	.	65	217	-1	1
22	UM	20	-224	224	225	1	3	999	.	72	225	.	1
23	UM	21	-210	210	209	-1	1	997	.	101	209	.	1
24	UM	22	-242	242	242	.	1	993	.	97	242	.	1
25	UM	23	-250	250	250	.	2	990	.	117	250	.	1
26	UM	24	-262	262	262	.	1	994	.	43	262	.	1
27	UM	25	-262	262	262	.	1	988	.	83	262	.	1
28	UM	26	-291	291	290	-1	1	977	.	63	290	.	1
29	UM	27	-297	297	297	.	2	971	.	75	297	.	1
30	UM	28	-309	309	309	.	1	993	.	130	308	-1	1
31	UM	29	-316	316	317	1	1	990	.	129	316	-1	1
32	UM	30	-365	365	365	.	1	998	.	98	365	.	1
33	UM	31	-320	320	320	.	1	985	.	97	320	.	1
34	UM	32	-320	320	320	.	1	992	.	78	320	.	1
35	UM	33	-322	322	322	.	2	991	.	75	322	.	1
36	UM	34	-345	345	345	.	1	994	.	63	345	.	1
37	UM	35	-369	369	369	.	1	993	.	173	369	.	1
38	UM	36	-467	466	466	.	1	996	.	117	468	.	1
39	UM	37	-384	384	384	.	1	989	.	43	384	.	1
40	UM	38	-416	416	416	.	1	991	.	43	416	.	1
41	UM	39	-415	415	415	.	1	996	.	83	415	.	1
42	UM	40	-421	421	421	.	1	985	.	164	421	.	1
43	UM	41	-438	438	437	-1	1	996	.	56	438	.	1
44	UM	42	-444	444	444	.	1	996	.	96	443	.	1
45	UM	43	-448	448	448	.	1	985	.	82	449	.	1
46	UM	44	-469	470	470	.	1	994	.	112	470	.	1
47	UM	45	-506	506	507	-1	1	990	.	106	507	.	1
48	UM	46	-545	547	546	-1	1	998	.	95	546	.	1
49	UM	47	-569	571	571	.	1	994	.	104	571	.	1
50	UM	48	-575	577	577	.	1	996	.	106	577	.	1
51	UM	49	-589	591	590	-1	2	987	.	106	591	1	1
52	UM	50	-653	656	657	2	1	994	.	146	657	.	1

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: AQUATEC, INC. Contract: 90000

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

Lab File ID (Standard): CKQ050IHV Date Analyzed: 05/18/90

Instrument ID: OWAC Time Analyzed: 0840

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

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	28983	8.00	133918	18.60	114280	23.35
	UPPER LIMIT	57966		267836		228560	
	LOWER LIMIT	14492		66959		57140	
	EPA SAMPLE NO.						
01	VBLKP1	26882_	7.80	118547_	18.40	99973_	23.20
02	VBLKP2	26184_	7.95	118025_	18.55	100812_	23.35
03	TRIP BLANK	26420_	7.90	120521_	18.50	101684_	23.30
04	MW-9 5.5'-7	23793_	8.05	112296_	18.60	97613_	23.40
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: AQUATEC, INC. Contract: 90000

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

Lab File ID (Standard): CKT050BHV Date Analyzed: 05/22/90

Instrument ID: OWAC Time Analyzed: 0626

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

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	28436	8.00	115331	18.55	90357	23.35
	UPPER LIMIT	56872		230662		180714	
	LOWER LIMIT	14218		57666		45179	
	EPA SAMPLE NO.						
01	VBLKQ1	23420_	8.00	97548_	18.55	70518_	23.35
02	MW-9 10'-12	21136_	7.95	91466_	18.55	66053_	23.30
03	MW-10 5.5'-7	22568_	8.00	94996_	18.65	72522_	23.40
04	6,-4 05/15/9	20421_	7.90	88191_	18.50	67084_	23.30
05	MW-11 5.5'-7	21498_	7.95	95087_	18.55	69335_	23.35
06	MW-10 20'-22	20972_	8.05	89015_	18.65	64784_	23.45
07	MW-10 20'-22	20018_	8.00	84859_	18.55	61979_	23.40
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: AQUATEC, INC. Contract: 90000

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

Lab File ID (Standard): CKV050AHV Date Analyzed: 05/24/90

Instrument ID: OWAC Time Analyzed: 0451

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

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	22675	8.00	108949	18.60	87212	23.40
	UPPER LIMIT	45350		217898		174424	
	LOWER LIMIT	11338		54475		43606	
	EPA SAMPLE NO.						
01	VBLKQ3	20431_	7.90	92170_	18.50	77529_	23.35
02	7,-3 05/15/9	18245_	8.00	84706_	18.55	65705_	23.40
03	MW-10 20'-22	17572_	7.90	81199_	18.55	67734_	23.35
04	MW-11 18'-20	19697_	7.95	92832_	18.55	70295_	23.35
05	VMBLK	18539_	7.95	85510_	18.60	73531_	23.40
06	MW-12 5.5'-7	17826_	7.85	84502_	18.50	68970_	23.30
07	MW-12 18'-20	16615_	8.00	78161_	18.65	60485_	23.45
08	MW-13 34-34	16400_	7.95	76503_	18.45	57255_	23.30
09	MW-12 18'-20	16859_	7.90	79252_	18.50	62430_	23.30
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name:AQUATEC, INC. Contract:90000

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

Lab File ID (Standard): CKV050BHV Date Analyzed: 05/24/90

Instrument ID: OWAC Time Analyzed: 1852

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

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	22907	8.00	106745	18.55	87207	23.35
	UPPER LIMIT	45814		213490		174414	
	LOWER LIMIT	11454		53373		43604	
	EPA SAMPLE NO.						
01	VBLKQ5	20296_	7.95	92156_	18.55	74879_	23.30
02	TRIP BLANK	19981_	7.95	92431_	18.55	76281_	23.35
03	SEPTIC SLUDG	19799_	7.85	89143_	18.50	76393_	23.30
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name:AQUATEC, INC. Contract:90000

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

Lab File ID (Standard): CKW050BHV Date Analyzed: 05/30/90

Instrument ID: OWAC Time Analyzed: 0841

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

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	35312	7.95	170082	18.60	136711	23.40
	UPPER LIMIT	70624		340164		273422	
	LOWER LIMIT	17656		85041		68356	
	EPA SAMPLE NO.						
01	VBLKQ9	34869_	8.00	165484_	18.65	125831_	23.40
02	SEPTIC SLUDG	33700_	7.95	146094_	18.50	123505_	23.35
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

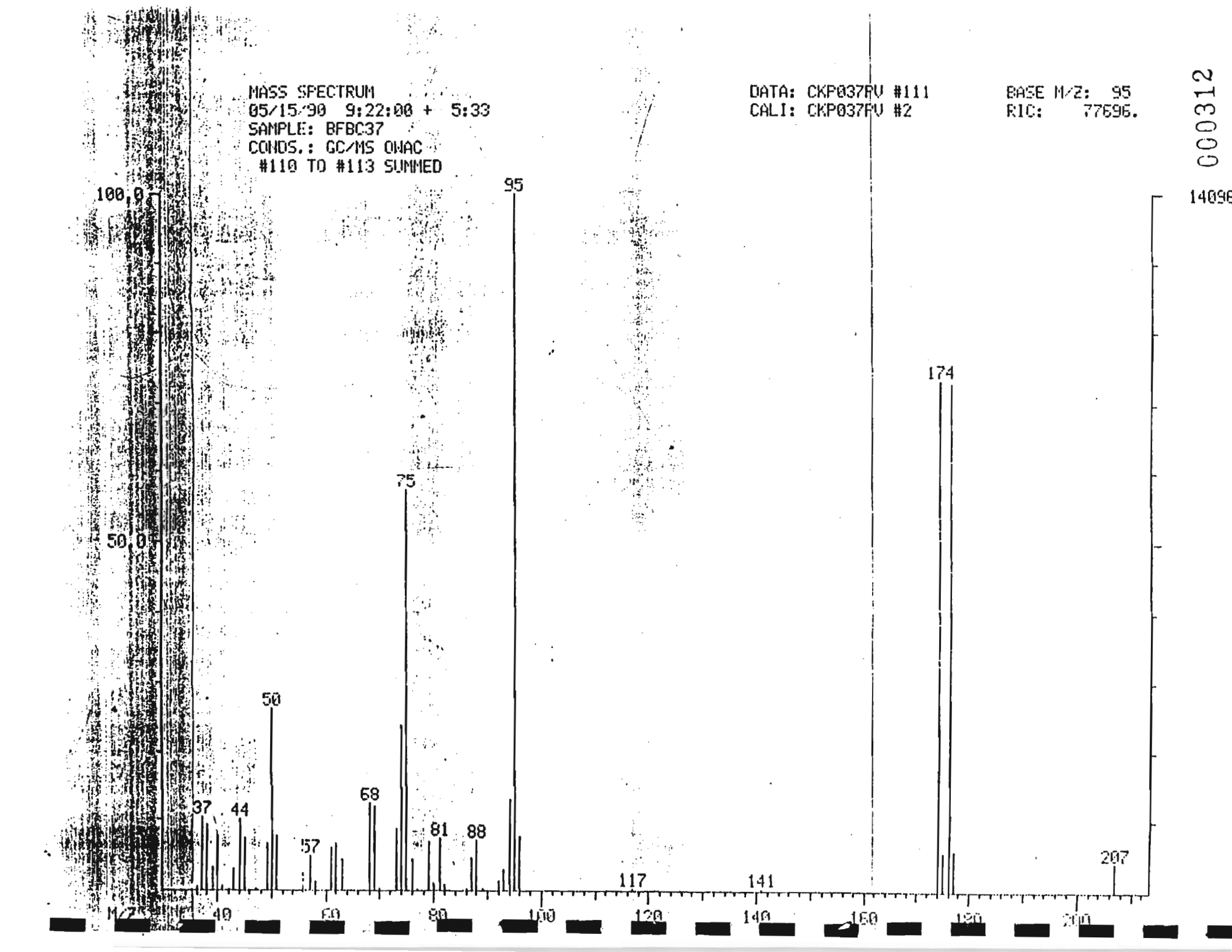
UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

VOLATILE ORGANIC ANALYSIS

RAW QC DATA PACKAGE

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


MASS SPECTRUM
05/15/90 9:22:00 + 5:33
SAMPLE: BFBC37
CONDS.: GC/MS OWAC
#110 TO #113 SUMMED
DATA: CKP037FV #111
CALI: CKP037FV #2
BASE M/Z: 95
RIC: 77696.
000312
14096
100.0
50.0
95
75
174
50
68
37
44
57
81
88
117
141
207
M/Z
40
60
80
100
120
140
160
180
200

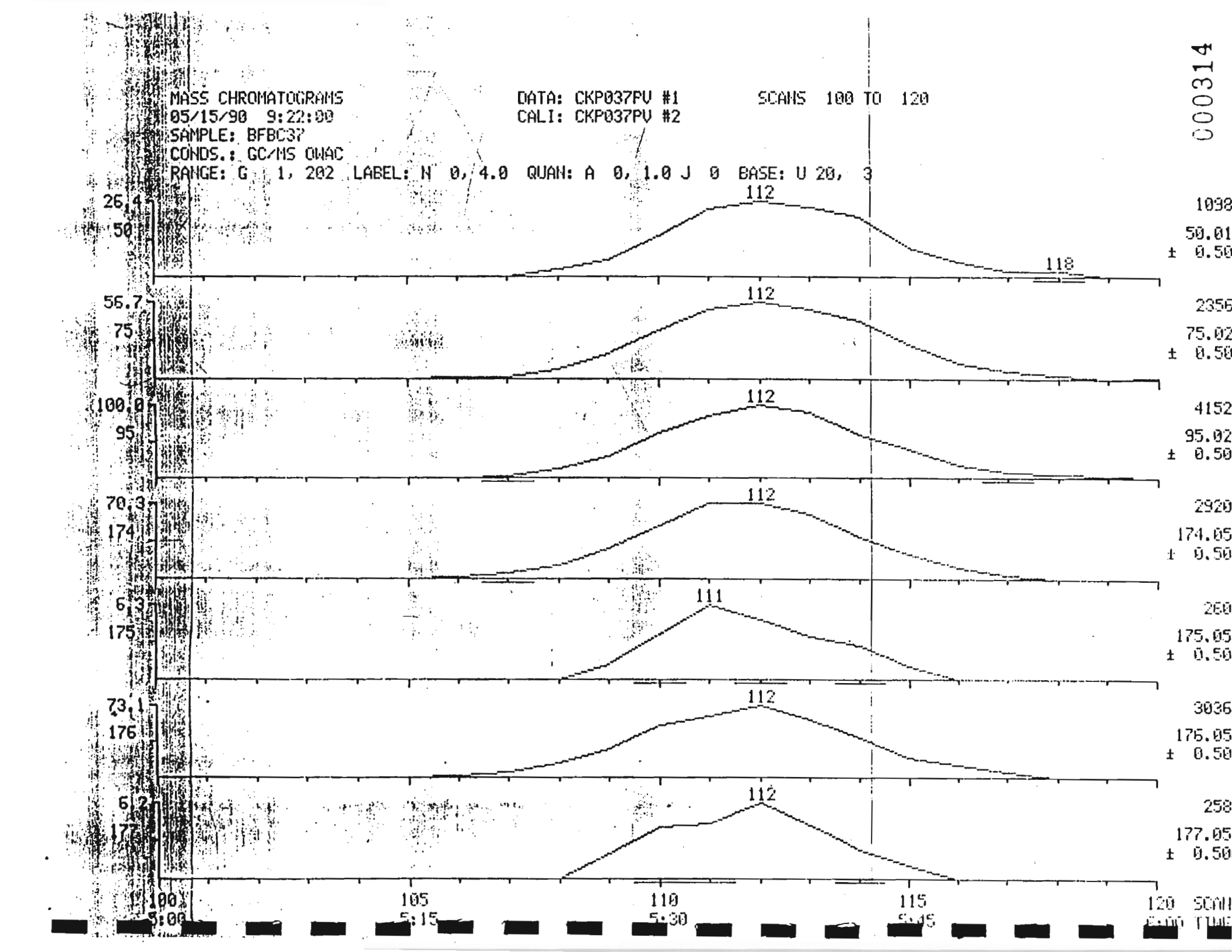
Mass List
5/15/90 9:22:00 + 5:33
Sample: BFBC37
Conds: GC/MS,DWAC
#110 to #113 Summed

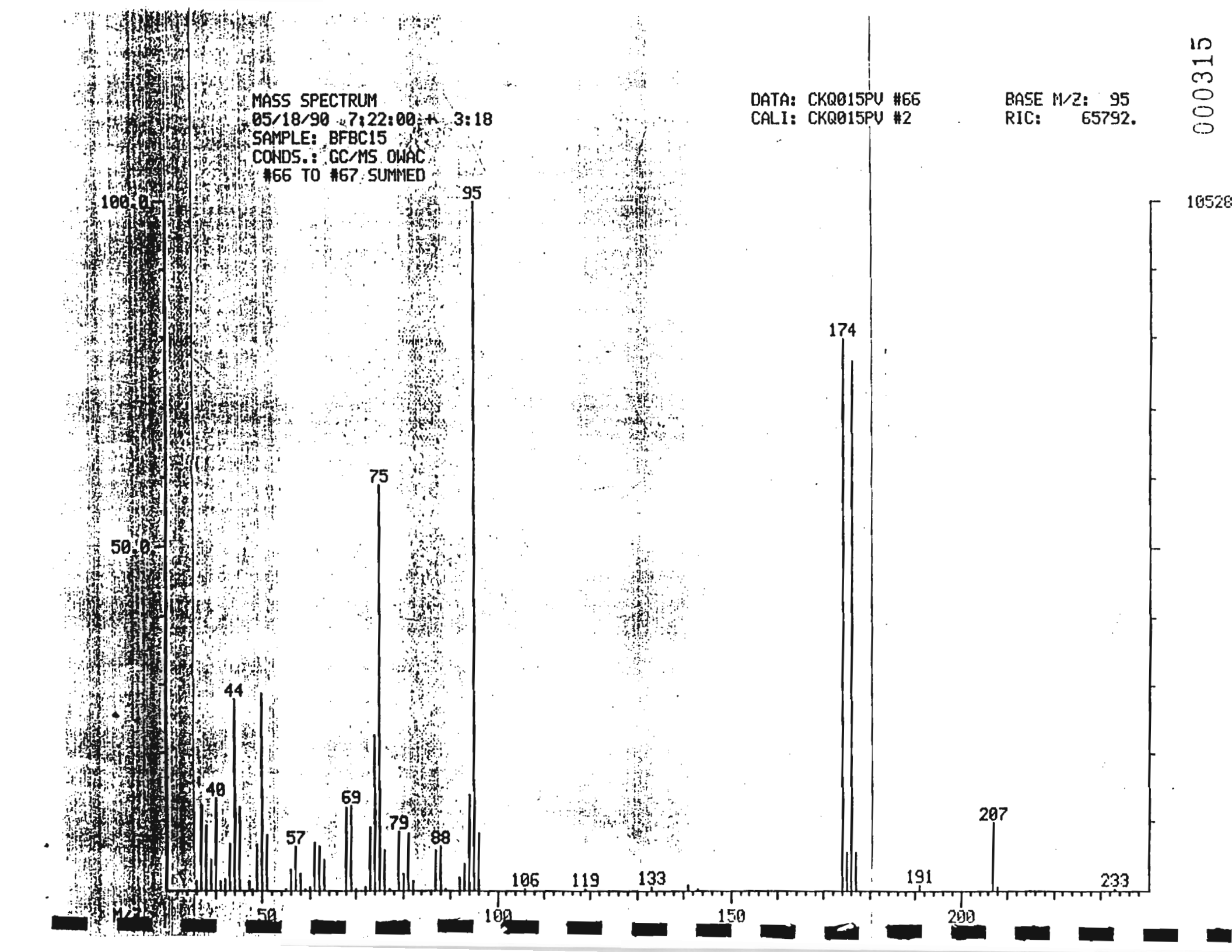
Data: CKP037PV # 111
Cali: CKP037PV # 2

Base m/z: 95
RIC: 77696.

36 0.00 Minima Min inten: 0.
207 # 0 Maxima

Mass	% RA
36.0	0.62
37.0	10.09
38.0	9.19
39.0	3.23
40.0	7.53
41.0	0.82
42.0	0.26
43.0	2.99
44.0	10.06
45.0	7.19
47.0	0.36
49.0	6.43
50.0	26.28
51.0	7.58
56.0	2.52
57.0	4.71
58.0	1.34
61.0	5.88
62.0	6.35
63.0	4.30
68.0	12.32
69.0	11.80
70.0	0.23
73.0	8.48
74.0	23.89
75.0	57.21
76.0	4.24
77.0	0.30
79.0	6.70
80.0	1.08
81.0	7.32
82.0	0.92
86.0	0.26
87.0	4.50
88.0	6.86
89.0	0.27
92.0	1.24
93.0	3.08
94.0	12.93
95.0	100.00
96.0	7.51
117.0	0.23
141.0	0.33
174.0	73.33
175.0	5.48
176.0	72.76
177.0	5.70
207.0	4.02

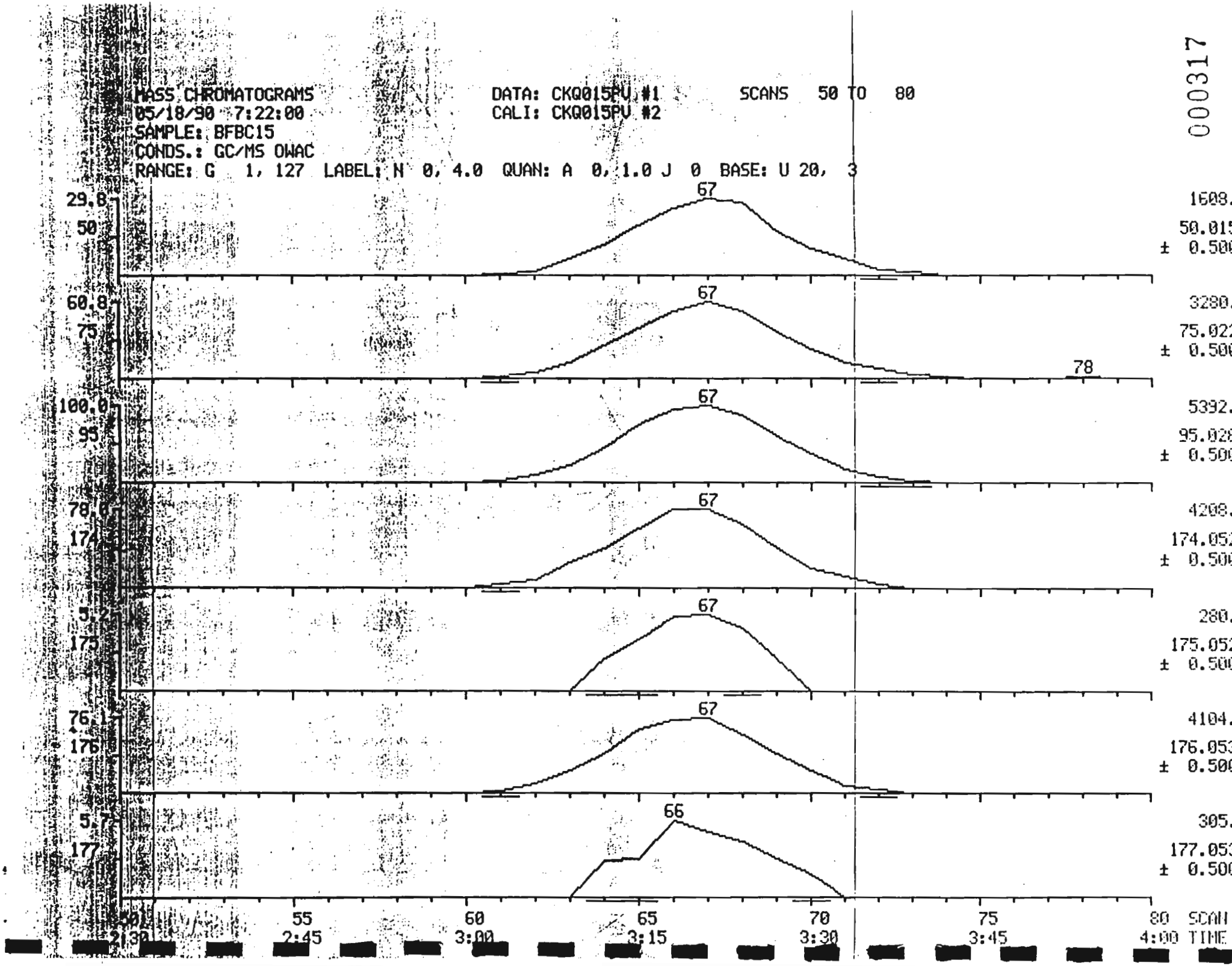

MASS CHROMATOGRAMS
05/15/90 9:22:00
SAMPLE: BFBC37
CONDS.: GC/MS QWAC
RANGE: G 1, 202 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: CKP037PV #1
CALI: CKP037PV #2
SCANS 100 TO 120
C00314
26.4
50
112
118
1098
50.01
± 0.50
56.7
75
112
2356
75.02
± 0.50
100.0
95
112
4152
95.02
± 0.50
70.3
174
112
2920
174.05
± 0.50
6.3
175
111
260
175.05
± 0.50
73.1
176
112
3036
176.05
± 0.50
6.2
177
112
258
177.05
± 0.50
100
105
110
115
120
SCAN
5:00
5:15
5:30
5:45
6:00 TIME

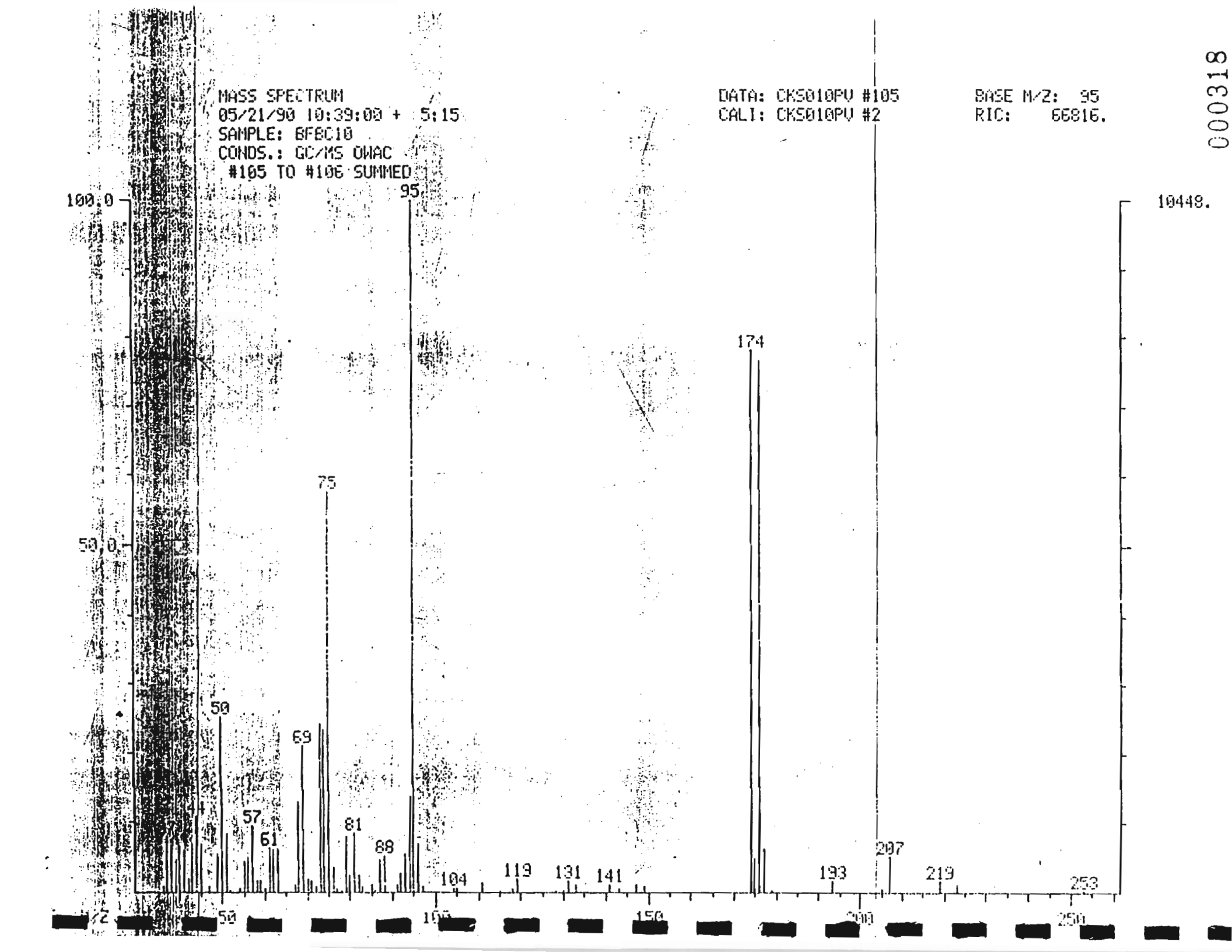

MASS SPECTRUM
05/18/90 7:22:00 + 3:18
SAMPLE: BFBC15
CONDS.: GC/MS OWAC
#66 TO #67 SUMMED
DATA: CKQ015PV #66
CALI: CKQ015PV #2
BASE M/Z: 95
RIC: 65792.
000315
10528
100.0
50.0
95
174
75
44
40
69
57
79
88
106
119
133
191
207
233
M/Z
50
100
150
200

Mass List — Data: CKQ015PV # 66 — Base m/z: 95
5/18/90 7:22:00 + 3:18 — Cali: CKQ015PVL# 2 — RIC: 65792
Sample: BFBC15
Conds: GC/MS,DWAC
#66 to #67 Summed

36 0.00 Minima — Min inten. 0
233 # 0 Maxima

Mass	% RA	Mass	% RA
36.0	1.37	174.0	79.94
37.0	12.22	175.0	5.27
38.0	9.07	176.0	76.67
39.0	4.31	177.0	5.34
40.0	13.16	191.0	0.79
41.0	1.37	207.0	9.59
42.0	1.66	208.0	0.46
43.0	6.53	233.0	0.34
44.0	28.00		
45.0	11.91		
47.0	1.35		
48.0	0.39		
49.0	6.49		
50.0	28.80		
51.0	7.70		
55.0	0.36		
56.0	2.95		
57.0	6.08		
58.0	2.39		
59.0	0.32		
60.0	0.41		
61.0	6.59		
62.0	6.32		
63.0	4.32		
68.0	11.93		
69.0	12.01		
70.0	0.36		
72.0	0.53		
73.0	8.87		
74.0	22.61		
75.0	58.81		
76.0	5.60		
77.0	0.30		
79.0	8.22		
80.0	2.39		
81.0	7.96		
82.0	1.42		
87.0	5.73		
88.0	6.24		
89.0	0.37		
92.0	1.82		
93.0	3.76		
94.0	13.81		
95.0	100.00		
96.0	8.00		
106.0	0.29		
119.0	0.29		
133.0	0.66		
141.0	0.77		
143.0	0.34		


MASS CHROMATOGRAMS
05/18/90 7:22:00
SAMPLE: BFBC15
CONDS.: GC/MS OWAC
RANGE: G 1, 127 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: CKQ015PV #1
CALI: CKQ015PV #2
SCANS 50 TO 80
000317
29.8
50
67
1608.
50.015
± 0.500
60.8
75
67
78
3280.
75.022
± 0.500
100.0
95
67
5392.
95.028
± 0.500
78.0
174
67
4208.
174.052
± 0.500
5.2
175
67
280.
175.052
± 0.500
76.1
176
67
4104.
176.053
± 0.500
5.7
177
66
305.
177.053
± 0.500
50
2:30
55
2:45
60
3:00
65
3:15
70
3:30
75
3:45
80
4:00
SCAN
TIME


MASS SPECTRUM
05/21/90 10:39:00 + 5:15
SAMPLE: BFBC10
CONDS.: GC/MS OWAC
#105 TO #106 SUMMED
DATA: CKS010PV #105
CALI: CKS010PV #2
BASE M/Z: 95
RIC: 66816.
100.0
50.0
10448.
95
174
75
50
69
57
61
81
88
104
119
131
141
193
207
219
253
50
100
150
200
250
000318

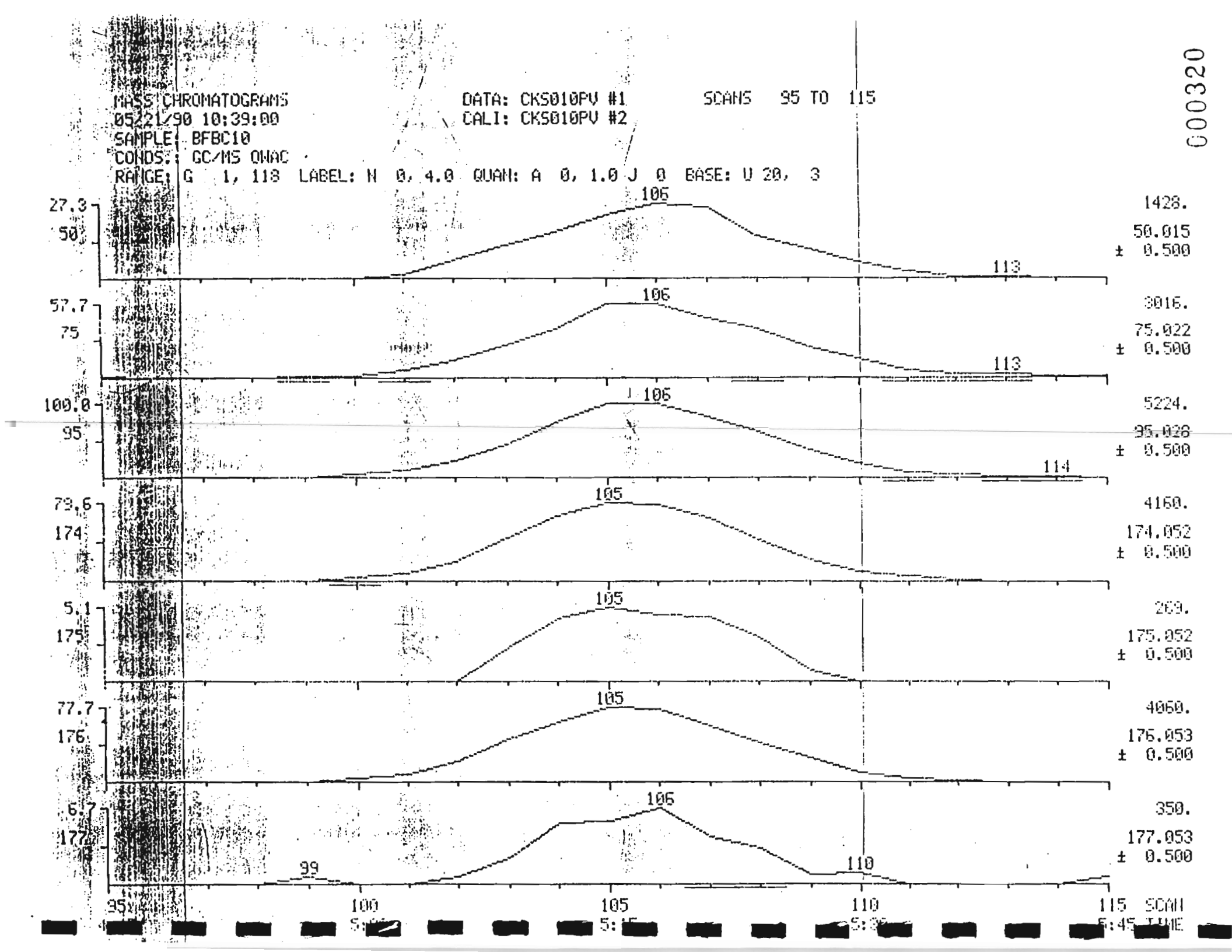
Mass List
5/21/90 10:39:00 + 5.15
Sample: BFBC10
Conds.: GC/MS OWAC ▸
#105 to #106 Summed

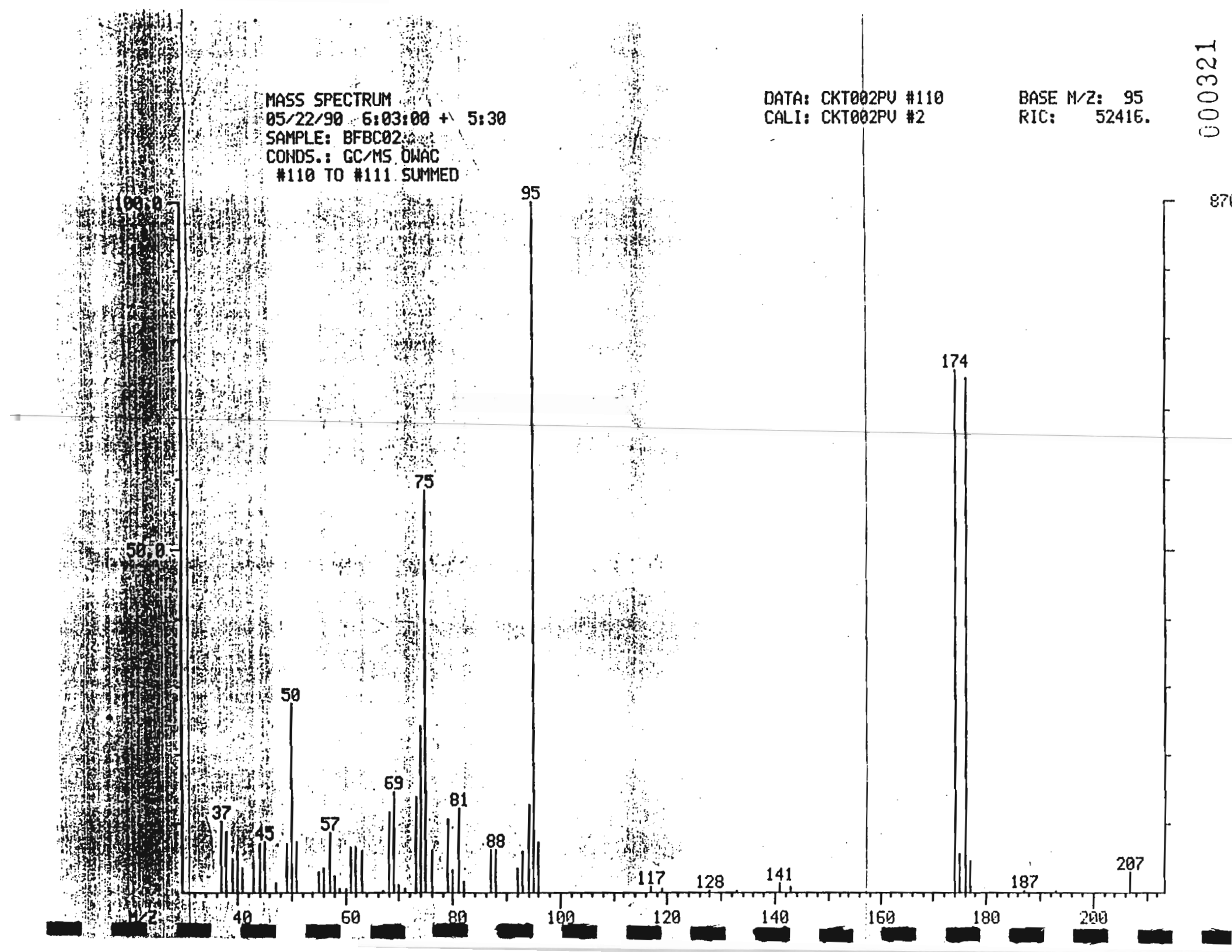
Data: CKS010PV # 105
Cali: CKS010PV # 2

Base m/z: 95
RIC: 66816.

36 # 0.00 Minima
253 # 0 Maxima

Mass	% RA	Mass	% RA
36.0	0.79	95.0	100.00
37.0	7.88	96.0	6.64
38.0	6.55	97.0	0.92
39.0	4.20	104.0	0.64
40.0	6.34	105.0	0.52
41.0	5.67	111.0	1.29
42.0	1.80	115.0	0.33
43.0	6.84	119.0	0.52
44.0	10.72	119.0	1.97
45.0	6.64	128.0	0.32
47.0	0.77	130.0	0.30
49.0	5.37	131.0	1.61
50.0	25.31	133.0	0.98
51.0	8.06	141.0	1.00
52.0	0.35	143.0	0.61
54.0	0.48	147.0	1.19
55.0	4.17	149.0	0.70
56.0	4.83	174.0	78.25
57.0	9.33	175.0	4.90
58.0	1.73	176.0	76.72
59.0	1.62	177.0	6.08
60.0	0.42	179.0	0.38
61.0	6.31	193.0	1.58
62.0	5.98	205.0	0.67
63.0	5.98	207.0	5.08
67.0	1.09	219.0	1.53
68.0	12.98	223.0	1.10
69.0	20.90	253.0	0.30
70.0	1.98		
71.0	1.52		
72.0	0.89		
73.0	24.08		
74.0	23.51		
75.0	57.50		
76.0	3.54		
77.0	0.49		
78.0	0.33		
79.0	7.71		
80.0	2.50		
81.0	8.38		
82.0	2.33		
83.0	0.85		
85.0	1.05		
86.0	0.34		
87.0	4.58		
88.0	5.10		
91.0	1.12		
92.0	2.68		
93.0	5.31		
94.0	13.80		

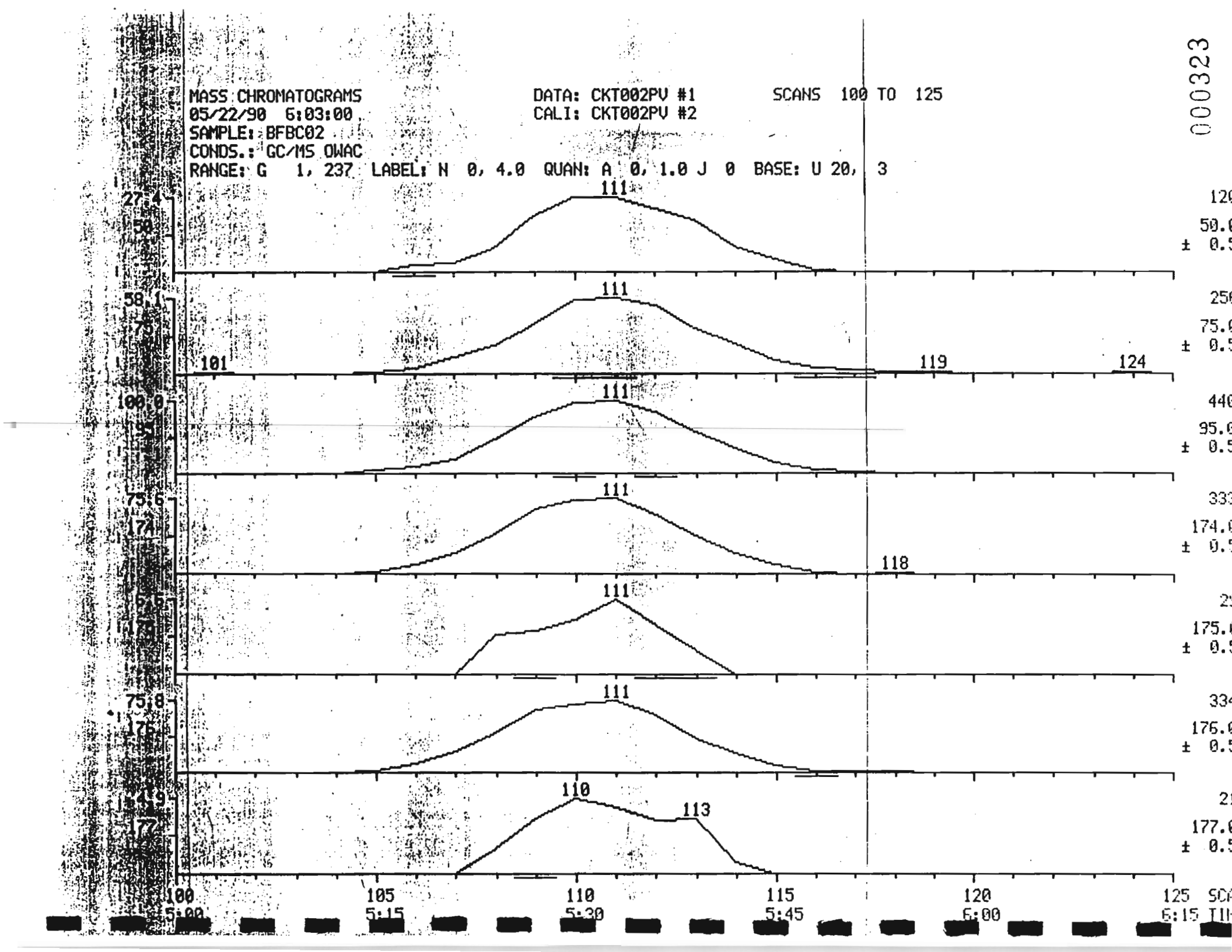

MASS CHROMATOGRAMS
05/21/90 10:39:00
SAMPLE: BFBC10
CONDS: GC/MS QWAC
RANGE: G 1, 118 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: CKS010PV #1
CALI: CKS010PV #2
SCANS 95 TO 115
000320
27.3
50
106
113
1428.
50.015
± 0.500
57.7
75
106
113
3016.
75.022
± 0.500
100.0
95
106
114
5224.
95.028
± 0.500
79.6
174
105
4160.
174.052
± 0.500
5.1
175
105
269.
175.052
± 0.500
77.7
176
105
4060.
176.053
± 0.500
6.7
177
106
99
110
350.
177.053
± 0.500
95
100
105
110
115 SCAN
5:
5:45 TIME

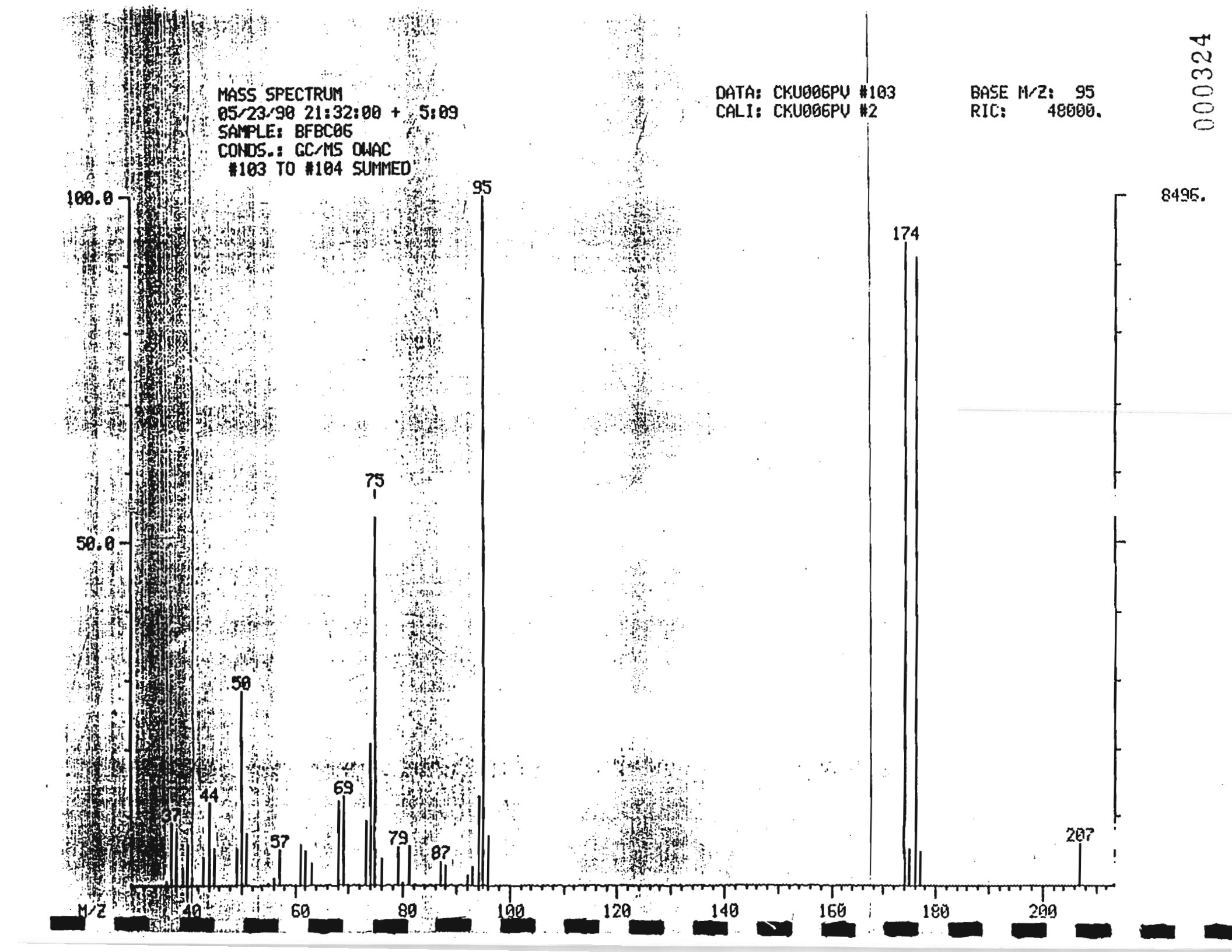

MASS SPECTRUM
05/22/90 6:03:00 + 5:30
SAMPLE: BFBC02
CONDS.: GC/MS OWAC
#110 TO #111 SUMMED
DATA: CKT002PV #110
CALI: CKT002PV #2
BASE M/Z: 95
RIC: 52416.
000321
100.0
50.0
95
174
75
50
69
81
37
45
57
88
117
128
141
187
207
M/Z
40
60
80
100
120
140
160
180
200

Mass List Data: CKT002PV # 110 Base m/z: 95
5/22/90 6:03:00 PM 5:30 Cal: CKT002PV # 2 RIC: 52416
Sample: BFBCO2
Conds.: QC/MS DWAC
#110 to #111 Summed

37 0.00 Minima Min inten: 0.
207 # 0 Maxima

Mass	% RA	Mass	% RA
37.0	10.17	177.0	4.70
38.0	8.63	187.0	0.40
39.0	4.73	193.0	0.37
40.0	5.84	207.0	2.92
41.0	3.52		
43.0	4.18		
44.0	7.11		
45.0	7.39		
47.0	1.31		
49.0	6.94		
50.0	27.62		
51.0	7.22		
55.0	2.87		
56.0	3.56		
57.0	8.51		
58.0	2.30		
59.0	0.65		
60.0	0.48		
61.0	6.42		
62.0	6.41		
63.0	5.85		
67.0	0.39		
68.0	11.59		
69.0	14.48		
70.0	1.18		
71.0	0.43		
73.0	13.65		
74.0	24.22		
75.0	58.36		
76.0	5.79		
79.0	10.57		
80.0	3.32		
81.0	11.99		
82.0	1.71		
87.0	6.17		
88.0	6.19		
92.0	3.49		
93.0	5.94		
94.0	12.73		
95.0	100.00		
96.0	7.32		
117.0	0.86		
119.0	0.45		
128.0	0.37		
133.0	0.40		
141.0	1.34		
143.0	0.85		
174.0	75.64		
175.0	5.78		
176.0	74.45		

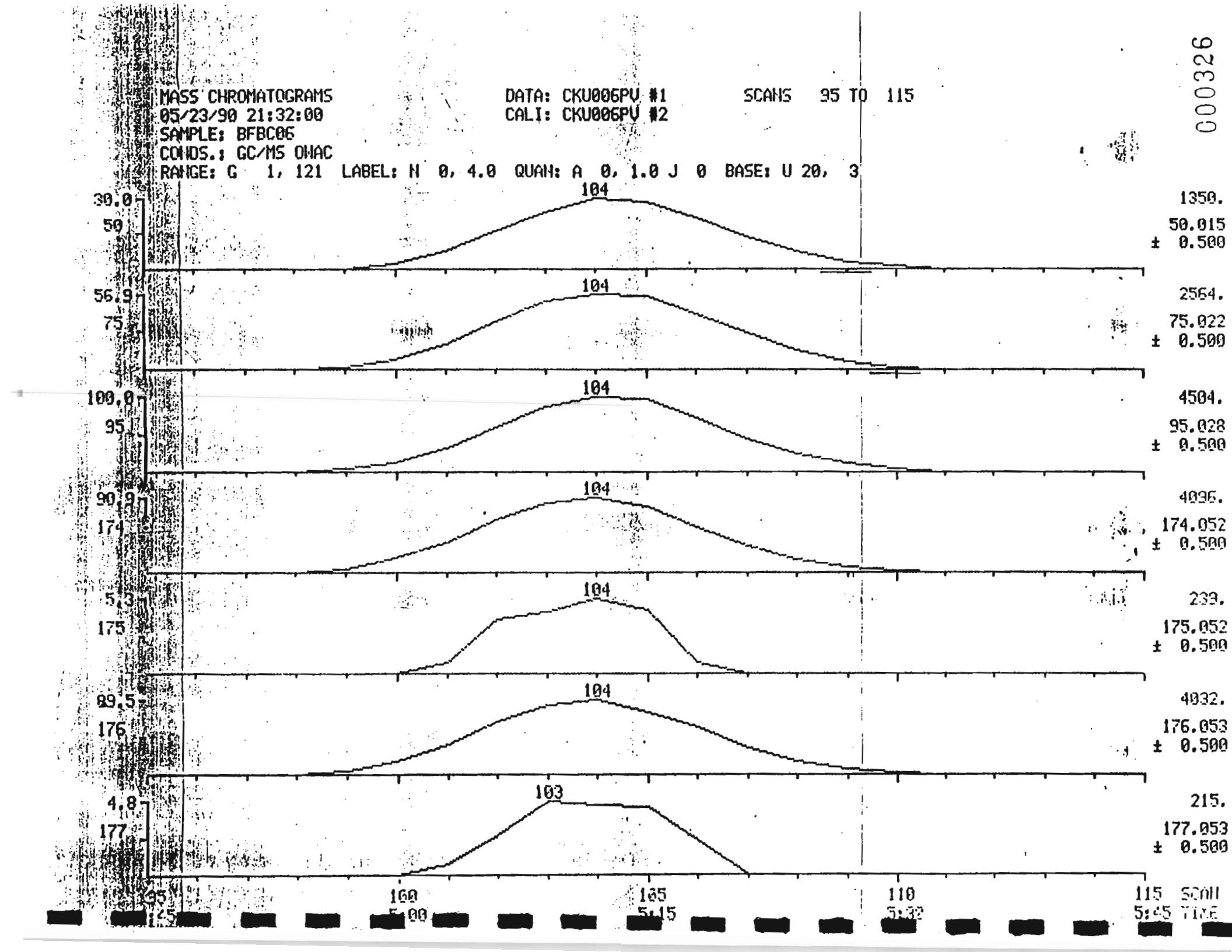

MASS CHROMATOGRAMS
05/22/90 6:03:00
SAMPLE: BFBC02
CONDS.: GC/MS OWAC
RANGE: G 1, 237 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: CKT002PV #1
CALI: CKT002PV #2
SCANS 100 TO 125
000323
111
101
119
124
110
113
100
105
110
115
120
125
5:00
5:15
5:30
5:45
6:00
6:15

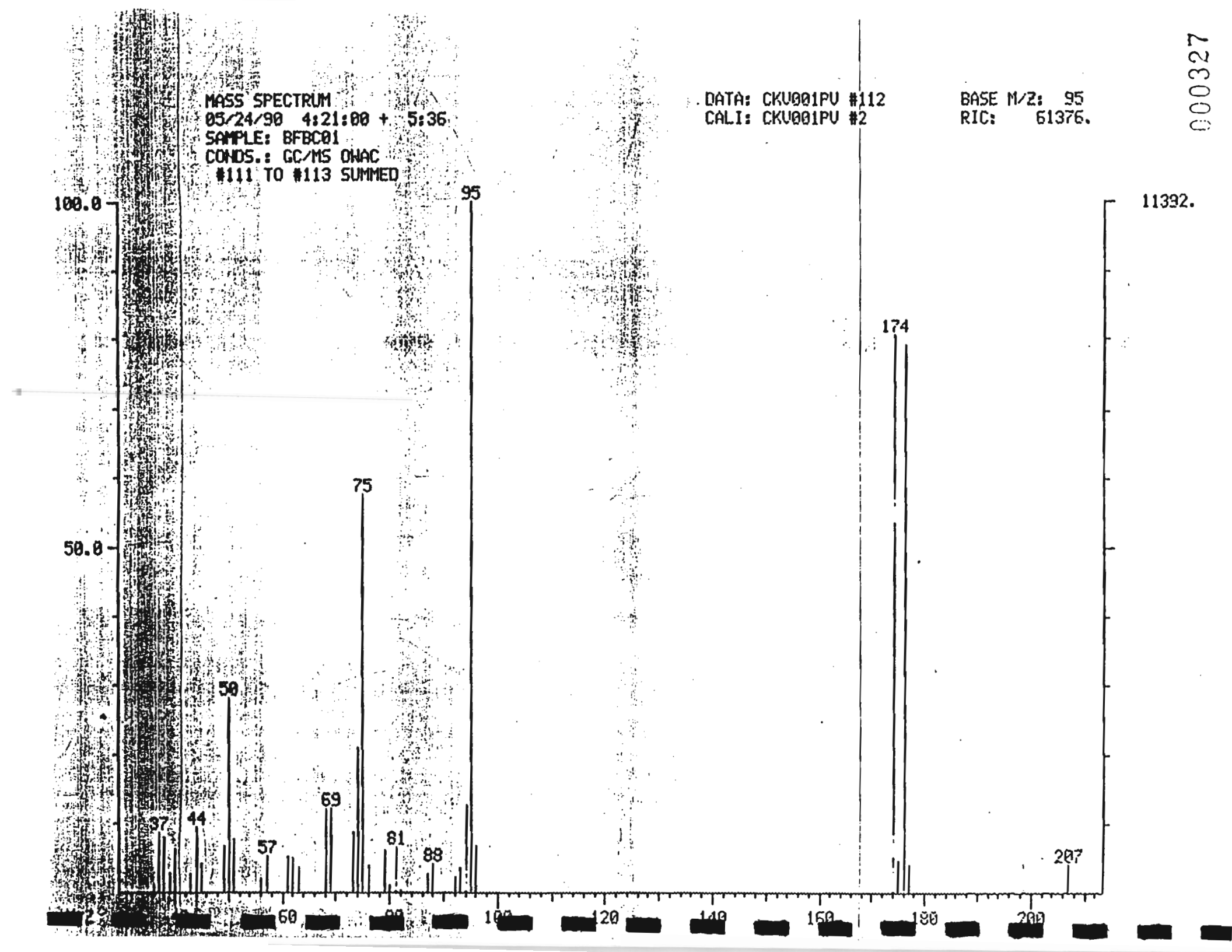

MASS SPECTRUM
05/23/90 21:32:00 + 5:09
SAMPLE: BFBC06
CONDS.: GC/MS OWAC
#103 TO #104 SUMMED
DATA: CKU006PV #103
CALI: CKU006PV #2
BASE M/Z: 95
RIC: 48000.
000324
100.0
50.0
8496.
95
174
75
50
69
44
37
57
79
87
207
M/Z
40
60
80
100
120
140
160
180
200

Mass List Data: CKU006PV # 103 Base m/z: 95
05/23/90 21:32:00 ↔ 5:09 Calc: CKU006PV # 2 RIC: 48000
Sample: SBF8C06-FF
Cmpds: GC/MS DWAC
#103 to #104 Summed

36 0.00 Minima Min Inten 0
207 # 0 Maxima

Mass	% RA
36.0	0.41
37.0	8.75
38.0	7.42
39.0	2.52
40.0	5.77
41.0	1.15
43.0	3.90
44.0	11.84
45.0	5.21
49.0	5.07
50.0	28.48
51.0	7.16
55.0	0.36
56.0	0.84
57.0	4.76
61.0	5.54
62.0	4.85
63.0	2.84
68.0	12.04
69.0	12.83
73.0	9.04
74.0	20.67
75.0	57.63
76.0	3.73
79.0	5.50
80.0	0.36
81.0	5.27
87.0	3.28
88.0	2.81
92.0	1.42
93.0	2.34
94.0	12.85
95.0	100.00
96.0	7.09
174.0	93.31
175.0	5.16
176.0	91.15
177.0	4.94
207.0	5.96

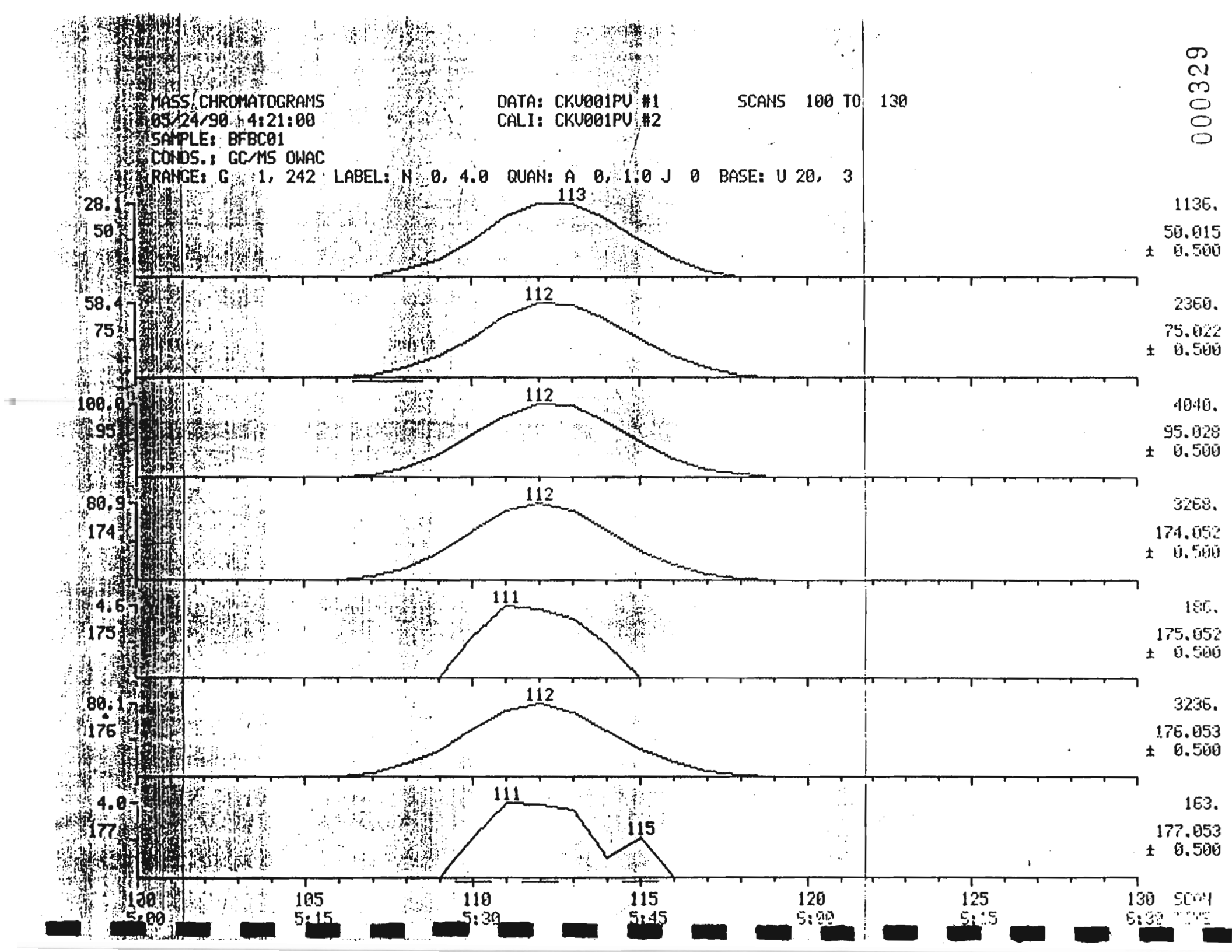

MASS CHROMATOGRAMS
05/23/90 21:32:00
SAMPLE: BFBC06
CONDS.: GC/MS ONAC
RANGE: G 1, 121 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: CKU006PV #1
CALI: CKU006PV #2
SCANS 95 TO 115
000326
104
30.0
50
1350.
50.015
± 0.500
104
56.9
75
2564.
75.022
± 0.500
104
100.0
95
4504.
95.028
± 0.500
104
90.9
174
4096.
174.052
± 0.500
104
5.3
175
239.
175.052
± 0.500
104
89.5
176
4032.
176.053
± 0.500
103
4.8
177
215.
177.053
± 0.500
100
5:00
105
5:15
110
5:30
115
5:45
SCAN
TIME

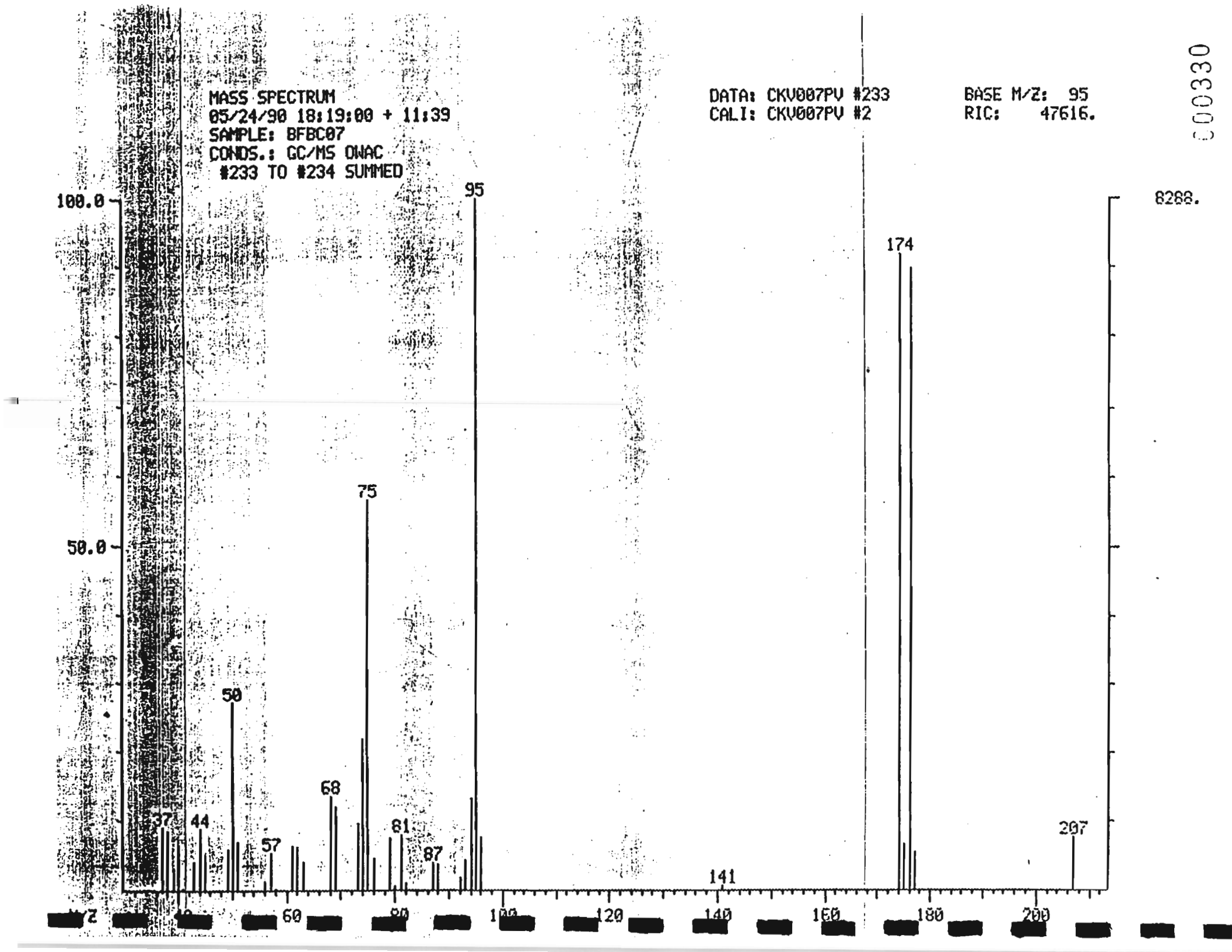

MASS SPECTRUM
05/24/90 4:21:00 + 5:36
SAMPLE: BFBC01
CONDS.: GC/MS OWAC
#111 TO #113 SUMMED
DATA: CKV001PV #112
CALI: CKV001PV #2
BASE M/Z: 95
RIC: 61376.
000327
100.0
50.0
11392.
95
174
75
50
69
37
44
57
81
88
207
60
120
140
160
180
200

Mass List Data: CKV001PV # 112 Base m/z: 95
03/24/90 4:21:00 t: 5:36 Cali: CKV001PV # 2 RIC: 61376
Sample: BFBC01M
Conds: GC/MS DWAC
#111 to #113 Summed

36 0.00 Minima Min Inten: 0
207 # 0 Maxima

Mass	% RA
36.0	0.95
37.0	8.63
38.0	7.77
39.0	2.77
40.0	6.12
43.0	2.77
44.0	9.36
45.0	4.03
49.0	6.34
50.0	28.20
51.0	7.53
56.0	1.76
57.0	5.03
61.0	4.99
62.0	4.72
63.0	3.44
68.0	12.15
69.0	12.22
73.0	8.65
74.0	21.07
75.0	57.65
76.0	3.80
79.0	5.93
80.0	1.08
81.0	6.39
82.0	0.31
87.0	2.78
88.0	3.93
92.0	2.21
93.0	3.54
94.0	12.73
95.0	100.00
96.0	6.84
174.0	80.62
175.0	4.52
176.0	79.07
177.0	4.12
207.0	3.99

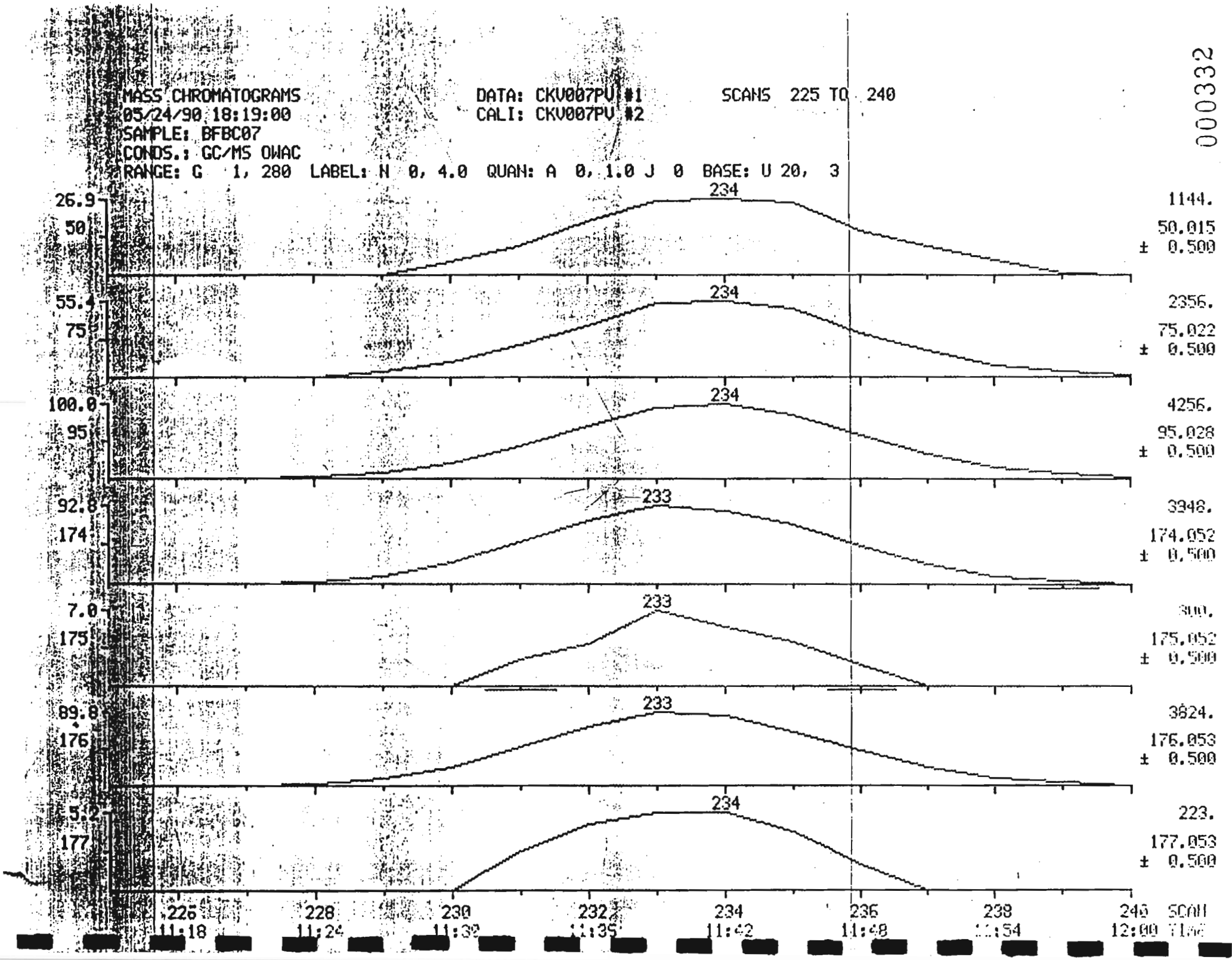

MASS CHROMATOGRAMS
05/24/90 14:21:00
SAMPLE: BFBC01
CONDS.: GC/MS OWAC
RANGE: G 1, 242 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: CKV001PV #1
CALI: CKV001PV #2
SCANS 100 TO 130
000329
28.1
50
113
1136.
50.015
± 0.500
58.4
75
112
2360.
75.022
± 0.500
100.0
95
112
4040.
95.028
± 0.500
80.9
174
112
3268.
174.052
± 0.500
4.6
175
111
186.
175.052
± 0.500
80.1
176
112
3236.
176.053
± 0.500
4.0
177
111
115
163.
177.053
± 0.500
100
105
110
115
120
125
130
5:00
5:15
5:30
5:45
5:00
5:15
5:30

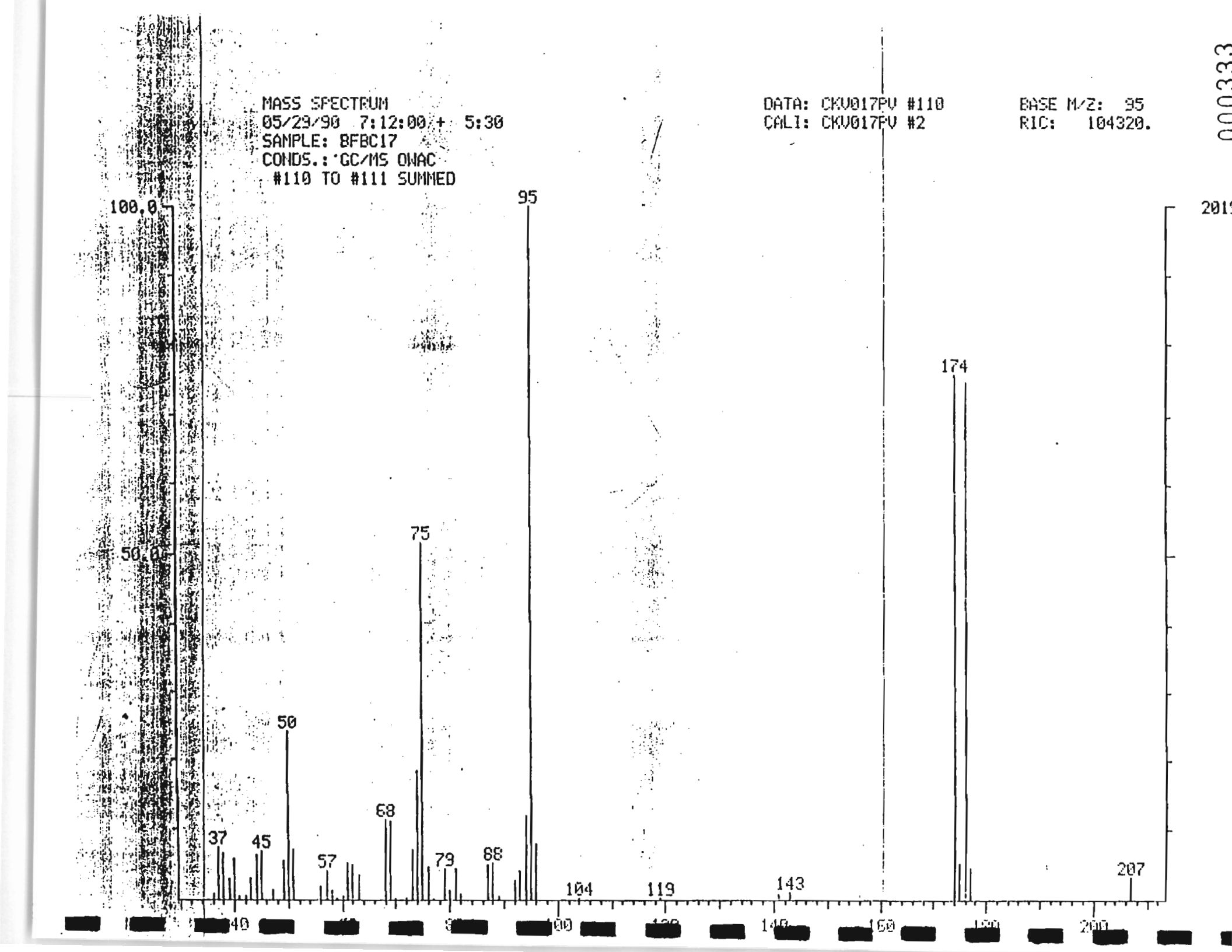

MASS SPECTRUM
05/24/90 18:19:00 + 11:39
SAMPLE: BFBC07
CONDS.: GC/MS OWAC
#233 TO #234 SUMMED
DATA: CKV007PV #233
CALI: CKV007PV #2
BASE M/Z: 95
RIC: 47616.
100.0
50.0
8288.
95
174
75
50
68
37
44
57
81
87
141
207
M/Z
60
80
100
120
140
160
180
200

Masslist Data: CKV007PV # 233 Base m/z: 95
05/24/90 18:19:00 + 11:39 Cali: CKV007PV # 2 RIC: 47616.
Sample: BFBC07
Cond: CC7MS,DWAC
#234 Summed

37. 0.00 Minima Min inten: 0.
207. # 0 Maxima

Mass	% RA
37.0	8.76
38.0	8.42
39.0	2.93
40.0	6.25
41.0	0.40
43.0	3.82
44.0	8.54
45.0	4.91
49.0	5.68
50.0	27.22
51.0	6.84
56.0	1.04
57.0	5.14
58.0	0.39
61.0	6.17
62.0	5.91
63.0	3.64
68.0	13.32
69.0	11.78
73.0	9.30
74.0	21.89
75.0	56.37
76.0	4.31
79.0	7.38
80.0	0.45
81.0	7.77
82.0	0.75
87.0	3.69
88.0	3.46
92.0	1.65
93.0	3.96
94.0	13.18
95.0	100.00
96.0	7.54
141.0	0.57
174.0	91.99
175.0	6.43
176.0	89.86
177.0	5.38
207.0	7.57

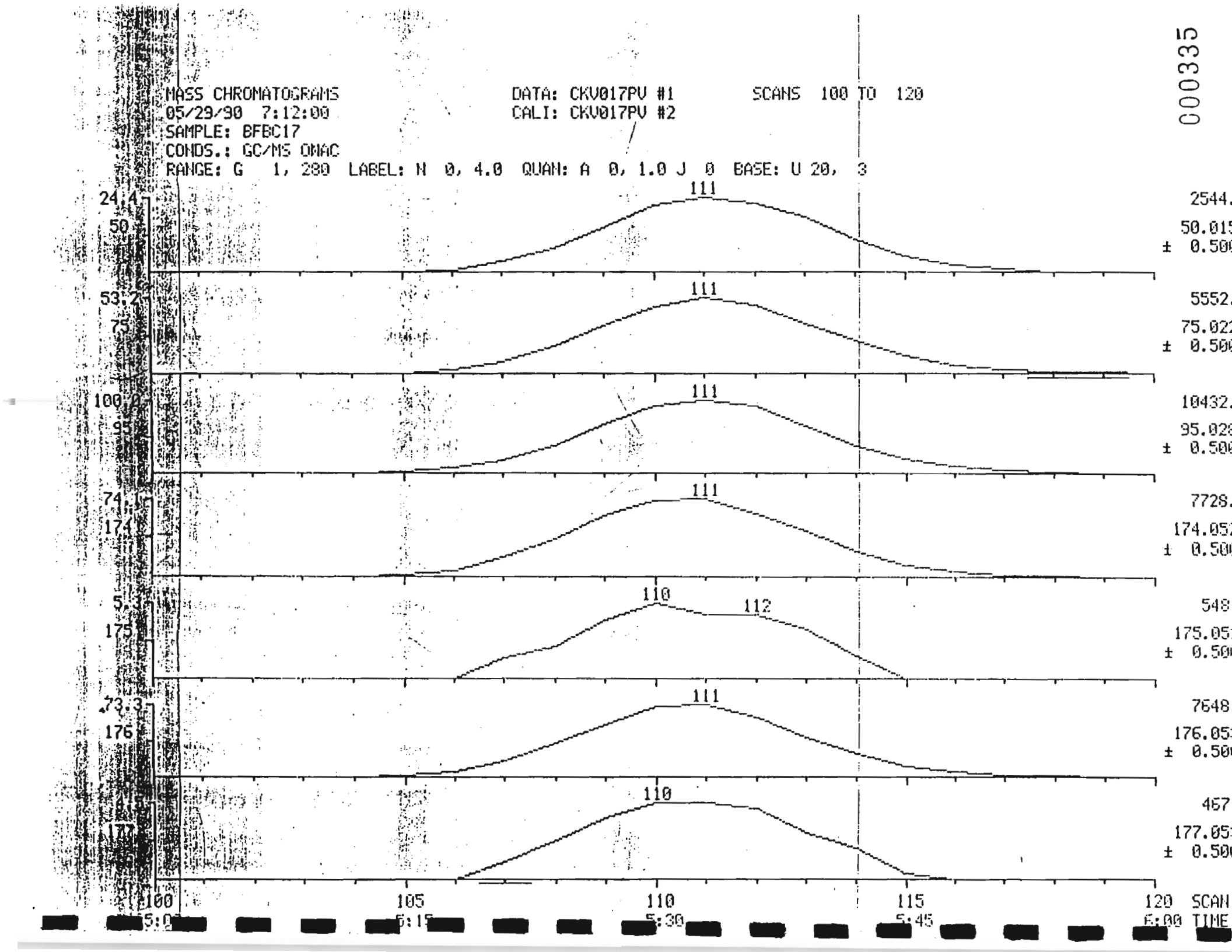

MASS CHROMATOGRAMS
05/24/90 18:19:00
SAMPLE: BFBC07
CONDS.: GC/MS OWAC
RANGE: G 1, 280 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: CKV007PV #1
CALI: CKV007PV #2
SCANS 225 TO 240
0003332
26.9
50
234
1144.
50.015
± 0.500
55.4
75
234
2356.
75.022
± 0.500
100.0
95
234
4256.
95.028
± 0.500
92.8
174
233
3348.
174.052
± 0.500
7.0
175
233
300.
175.052
± 0.500
89.8
176
233
3824.
176.053
± 0.500
5.2
177
234
223.
177.053
± 0.500
226
11:18
228
11:24
230
11:30
232
11:36
234
11:42
236
11:48
238
11:54
240 SCAN
12:00 Time

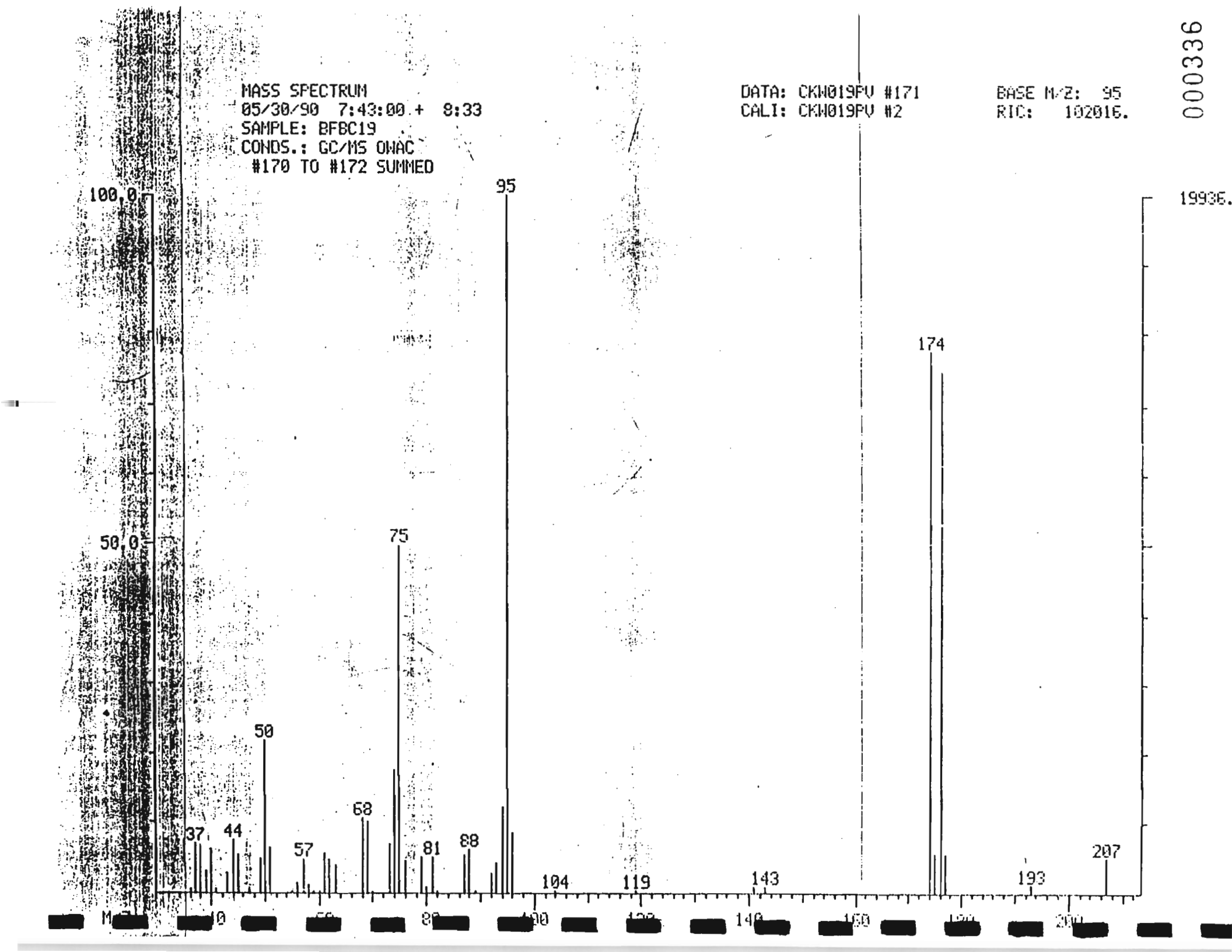

MASS SPECTRUM
05/29/90 7:12:00 + 5:30
SAMPLE: BFBC17
CONDS.: GC/MS OWAC
#110 TO #111 SUMMED
DATA: CKV017PV #110
CALI: CKV017PV #2
BASE M/Z: 95
RIC: 104320.
100.0
50.0
95
174
75
50
68
37
45
57
79
88
104
119
143
207
40
100
160
200

Mass List — Data: CKV017PV # 110 — Base m/z: 95.
5/29/90 7:12:00 + 5:30 — Cali: CKV017PV # 2 — RIC: 104320.
Sample: BFBC17
Conds: GC/MS DWAC
#110 to #111 Summed

36 0.00 Minima — Min. inten: 0.
207 # 0 Maxima

Mass	% RA	Maxima Mass	% RA
36.0	0.91	177.0	4.62
37.0	7.24	207.0	3.26
38.0	6.33		
39.0	3.07		
40.0	5.56		
41.0	0.42		
42.0	0.46		
43.0	2.97		
44.0	6.14		
45.0	6.70		
47.0	1.28		
49.0	5.37		
50.0	24.09		
51.0	6.89		
56.0	1.99		
57.0	4.10		
58.0	1.37		
59.0	0.20		
60.0	0.59		
61.0	5.21		
62.0	4.94		
63.0	3.53		
68.0	11.33		
69.0	10.90		
70.0	0.19		
72.0	0.22		
73.0	6.99		
74.0	18.15		
75.0	51.51		
76.0	4.59		
77.0	0.20		
79.0	4.31		
80.0	1.25		
81.0	4.28		
82.0	0.86		
87.0	4.81		
88.0	5.08		
89.0	0.51		
92.0	2.70		
93.0	4.01		
94.0	11.71		
95.0	100.00		
96.0	7.71		
104.0	0.15		
119.0	0.21		
141.0	0.77		
143.0	0.97		
174.0	75.83		
175.0	4.99		
176.0	74.64		


MASS CHROMATOGRAMS
05/29/90 7:12:00
SAMPLE: BFBC17
CONDS.: GC/MS OMAC
DATA: CKV017PV #1
CALI: CKV017PV #2
SCANS 100 TO 120
RANGE: G 1, 280 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
000335
24.4
50
111
2544.
50.015
± 0.500
53.2
75
111
5552.
75.022
± 0.500
100.0
95
111
10432.
95.028
± 0.500
74.1
174
111
7728.
174.057
± 0.500
5.3
175
110
112
548
175.05
± 0.500
73.3
176
111
7648
176.05
± 0.500
110
457
177.05
± 0.500
100
105
110
115
120 SCAN
5:00
5:15
5:30
5:45
6:00 TIME


MASS SPECTRUM
05/30/90 7:43:00.+ 8:33
SAMPLE: BFBC19
CONDS.: GC/MS OWAC
#170 TO #172 SUMMED
DATA: CKW019PV #171
CALI: CKW019PV #2
BASE M/Z: 95
RIC: 102016.
000336
19936.
100.0
50.0
95
174
75
50
68
37
44
57
81
88
104
119
143
193
207

Mass List
5/30/90 7:43:00 + 8:33
Sample: BFBC19
Conds: GC/MS CWAC
#170 to #172 Summed

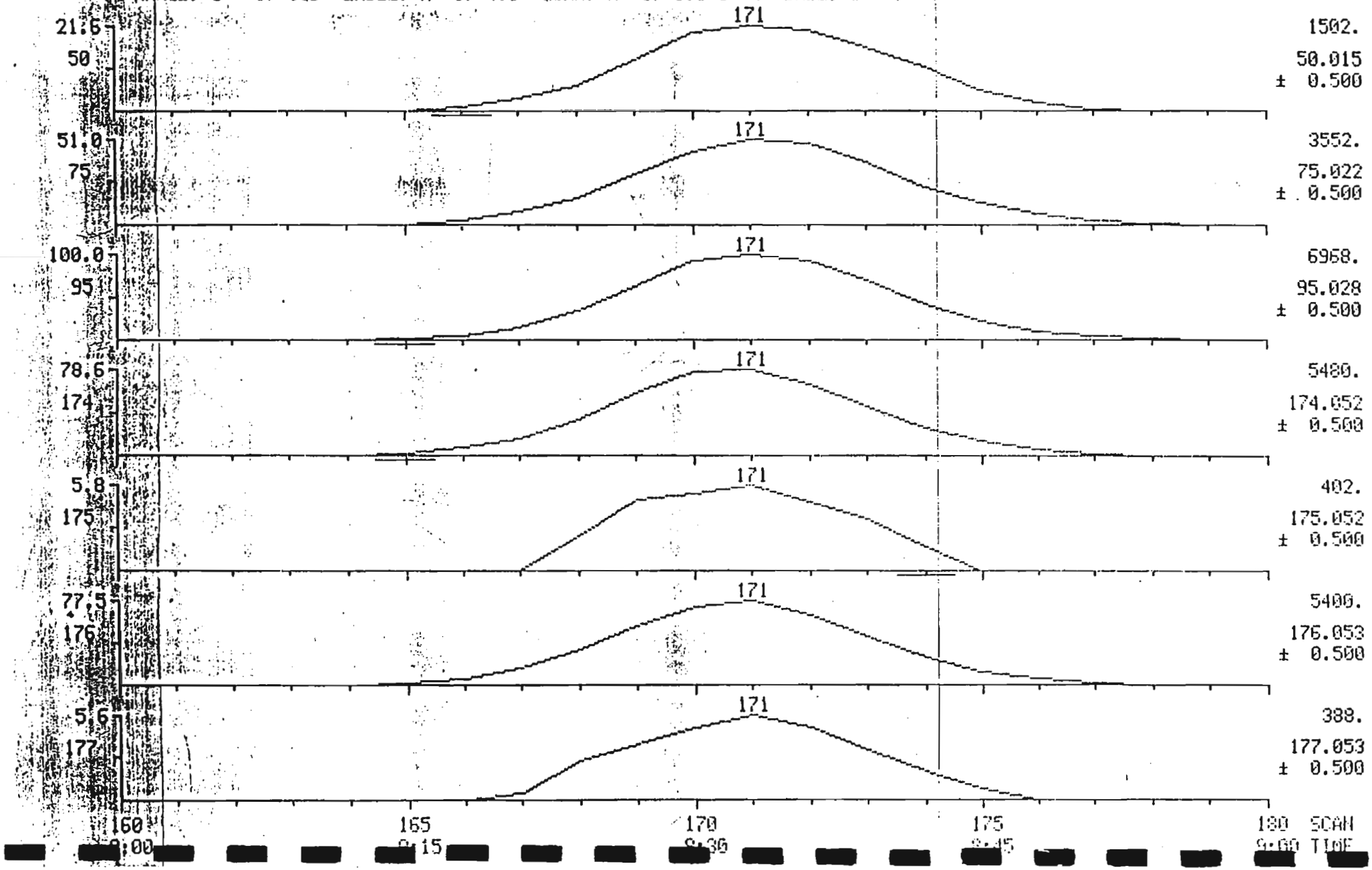
Data: CKW019PV # 171
Cali: CKW019PV # 2

Base m/z: 95
RIC: 102016.

36 0.00 Minima Min inten: 0.
207 # 0 Maxima

Mass	% RA	Mass	% RA
36.0	0.66	207.0	4.95
37.0	6.77		
38.0	6.33		
39.0	3.00		
40.0	5.85		
41.0	0.63		
43.0	2.81		
44.0	7.25		
45.0	5.23		
47.0	0.51		
49.0	4.71		
50.0	21.79		
51.0	6.25		
55.0	0.60		
56.0	1.47		
57.0	4.45		
58.0	0.98		
59.0	0.28		
60.0	0.19		
61.0	5.45		
62.0	4.59		
63.0	3.81		
68.0	10.37		
69.0	10.00		
70.0	0.16		
73.0	6.85		
74.0	17.50		
75.0	49.84		
76.0	4.37		
79.0	4.85		
80.0	0.77		
81.0	4.96		
82.0	0.31		
87.0	5.21		
88.0	5.83		
89.0	0.35		
92.0	2.57		
93.0	4.13		
94.0	12.18		
95.0	100.00		
96.0	8.38		
104.0	0.20		
119.0	0.31		
141.0	0.74		
143.0	0.77		
174.0	77.29		
175.0	5.45		
176.0	74.64		
177.0	5.27		
193.0	1.03		

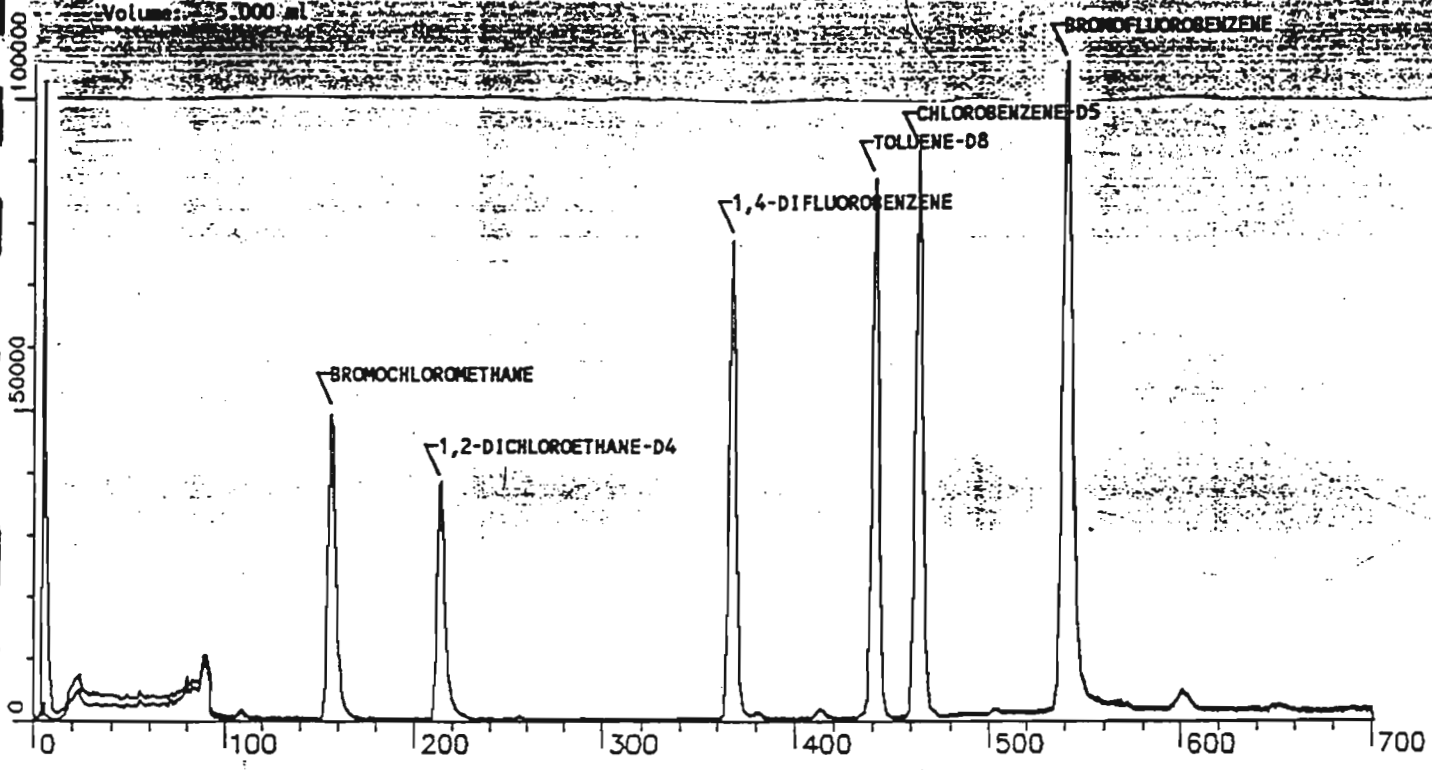
MASS CHROMATOGRAMS
05/30/90 7:43:00
SAMPLE: BFBC19
CONDS.: GC/MS DWAC
DATA: CKW019PV #1
CALI: CKW019PV #2
SCANS 160 TO 180
RANGE: G 1, 189 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



CKQB001IV 1

Sample: BLANK SMOFVBLKP1
Conditions: GC/MS OWAC
Method: CLP_VOL Matrix: WATER BLANK Submitted by: AQUTEC
Volume: 5.000 ml

05/18/90 0950
OWAC -- SPS



No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
1	128	156	7:48	1	1.000	A BB	26882	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	368	18:24	13	1.000	A BB	118547	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	464	23:12	36	1.000	A BB	99973	50.000 PPB		36	CHLOROBENZENE-D5
19	65	213	10:39	1	1.365	A BB	61562.	51.308 PPB	102.6	19	1,2-DICHLOROETHANE-D4
42	98	441	22:03	36	0.950	A BB	124457.	54.991 PPB	110.0	42	TOLUENE-D8
46	95	542	27:06	36	1.168	A BB	84506.	54.601 PPB	109.2	46	BROMOFLUOROBENZENE

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
1	8:00	12	1.000	1.00	50.00	50.00	1.000	1.000	1.00	1	BROMOCHLOROMETHANE
13	18:36	12	1.000	1.00	50.00	50.00	1.000	1.000	1.00	13	1,4-DIFLUOROBENZENE
36	23:21	9	1.000	1.00	50.00	50.00	1.000	1.000	1.00	36	CHLOROBENZENE-D5
19	10:54	15	1.362	1.00	51.31	50.00	2.290	2.232	1.03	19	1,2-DICHLOROETHANE-D4
42	22:15	12	0.953	1.00	54.99	50.00	1.245	1.132	1.10	42	TOLUENE-D8
46	27:15	9	1.167	1.00	54.60	50.00	0.845	0.774	1.09	46	BROMOFLUOROBENZENE

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

CKQB001IV 2

05/18/90 0950
OWAC -- SPS

Sample: BLANK SHO#VBLKP1
Conditions: GC/MS OWAC
Method: CLP_VOL Matrix: WATER BLANK Submitted by: AQUTEC
Volume: 5.000 ml

No	M/Z	Scan	Time	Ref	RRT	Meth	Area(Rght)	Amount	%Rec	No	Name
2	NOT FOUND									2	CHLOROMETHANE
3	94	27	1:21	1	0.173	A BB	62.	0.083 PPB		3	BROMOMETHANE
4	62	38	1:54	1	0.244	A BB	79.	0.106 PPB		4	VINYL CHLORIDE
5	NOT FOUND									5	CHLOROETHANE
6	84	89	4:27	1	0.571	A BB	2461.	2.901 PPB		6	METHYLENE CHLORIDE
7	43	109	5:27	1	0.699	A BB	3276.	8.417 PPB		7	ACETONE
10	NOT FOUND									10	CARBON DISULFIDE
12	NOT FOUND									12	1,1-DICHLOROETHENE
14	NOT FOUND									14	1,1-DICHLOROETHANE
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
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
31	NOT FOUND									31	1,1,2-TRICHLOROETHANE
32	78	317	15:51	13	0.861	A BB	159.	0.064 PPB		32	BENZENE
33	NOT FOUND									33	TRANS-1,3-DICHLOROPROPENE
34	NOT FOUND									34	2-CHLOROETHYLVINYLETHER
35	173	367	18:21	13	0.997	A BB	186.	0.155 PPB		35	BROMOFORM
37	43	380	19:00	36	0.819	A BB	2698.	1.793 PPB	Cup	37	4-METHYL-2-PENTANONE
38	43	413	20:39	36	0.890	A BB	2172.	1.684 PPB	Cup	38	2-HEXANONE
39	83	413	20:39	36	0.890	A BB	1651.	0.856 PPB		39	1,1,2,2-TETRACHLOROETHANE
40	NOT FOUND									40	TETRACHLOROETHENE
43	92	446	22:18	36	0.961	A BB	470.	0.383 PPB		43	TOLUENE
44	112	466	23:18	36	1.004	A BB	838.	0.404 PPB		44	CHLOROBENZENE
45	106	504	25:12	36	1.086	A BB	244.	0.267 PPB		45	ETHYLBENZENE
47	104	567	28:21	36	1.222	A BB	994.	0.555 PPB		47	STYRENE
48	106	572	28:36	36	1.233	A BB	168.	0.139 PPB		48	M-XYLENE
49	106	588	29:24	36	1.267	A BB	70.	0.065 PPB		49	O- & P-XYLENE
52	106	572	28:36	36	1.233	A*BB	238.	0.197 PPB		52	XYLENE (TOTAL)

CKQB001IV 3

05/18/90 0950
OWAC -- SPS

Sample: BLANK SNOPVBLKP1
Conditions: GC/MS OWAC
Method: CLP_VOL Matrix: WATER BLANK Submitted by: AQUTEC
Volume: 5.000 ml

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	15	0.200	0.87	0.08	55.00	0.002	1.393	0.00	3	BROMOMETHANE
4	2:03	9	0.256	0.95	0.11	50.00	0.003	1.387	0.00	4	VINYL CHLORIDE
5	2:48		0.350							5	CHLOROETHANE
6	4:33	6	0.569	1.00	2.90	50.00	0.092	1.578	0.06	6	METHYLENE CHLORIDE
7	5:33	6	0.694	1.01	8.42	50.00	0.122	0.724	0.17	7	ACETONE
10	6:15		0.781							10	CARBON DISULFIDE
12	7:36		0.950							12	1,1-DICHLOROETHENE
14	8:51		1.106							14	1,1-DICHLOROETHANE
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
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
31	16:03		0.863							31	1,1,2-TRICHLOROETHANE
32	16:03	12	0.863	1.00	0.06	50.00	0.001	1.052	0.00	32	BENZENE
33	16:09		0.868							33	TRANS-1,3-DICHLOROPROPENE
34	17:15		0.927							34	2-CHLOROETHYLVINYLETHER
35	18:30	9	0.995	1.00	0.16	50.00	0.002	0.506	0.00	35	BROMOFORM
37	19:12	12	0.822	1.00	1.79	50.00	0.027	0.752	0.04	37	4-METHYL-2-PENTANONE
38	20:48	9	0.891	1.00	1.68	50.00	0.022	0.645	0.03	38	2-HEXANONE
39	20:48	9	0.891	1.00	0.86	50.00	0.017	0.964	0.02	39	1,1,2,2-TETRACHLOROETHANE
40	21:03		0.901							40	TETRACHLOROETHENE
43	22:27	9	0.961	1.00	0.30	50.00	0.005	0.777	0.01	43	TOLUENE
44	23:30	12	1.006	1.00	0.40	50.00	0.008	1.037	0.01	44	CHLOROBENZENE
45	25:21	9	1.086	1.00	0.27	50.00	0.002	0.457	0.01	45	ETHYLBENZENE
47	28:30	9	1.221	1.00	0.56	50.00	0.010	0.896	0.01	47	STYRENE
48	28:48	12	1.233	1.00	0.14	50.00	0.002	0.603	0.00	48	M-XYLENE
49	29:27	3	1.261	1.00	0.06	30.00	0.001	0.542	0.00	49	O- & P-XYLENE
52	28:48	12	1.233	1.00	0.20	50.00	0.002	0.603	0.00	52	XYLENE (TOTAL)

CKQB001IV$_{16}$

05/18/90 0950
OWAC -- SPS

Sample: BLANK SMO#VBLKP1
Conditions: GC/MS OWAC
Method: CLP.VOL Matrix: WATER BLANK Submitted by: AQUTEC
Volume: 5.000 ml

Summary of Tentatively Identified Compounds

Rank	Scan	Dec. Time	En.RIC Height	Est. Amount	Ref	Name
ISTD	156	7.80	40832.	50.0	1	BROMOCHLOROMETHANE
~~1~~	~~214~~	~~10.70~~	~~36543.~~	~~44.7~~	~~1~~	~~UNKNOWN~~ SS #19
ISTD	368	18.40	51840.	50.0	13	1,4-DIFLUOROBENZENE
ISTD	464	23.20	67357.	50.0	36	CHLOROBENZENE-D5

6 TIC's for reporting

cjp

PROCEDURE: TCA DIAGNOSTIC REPORT 5/18/90 10:28:31
DATA FILE: CKGB001IV
REFERENCE FILE: JTAB11
NAME LIST NUM = 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	13	3	1	158	UMRET1/UMUNK1
2	2	1	0	14	3	2	101	UMRET2/UMUNK2
2	2	1	0	13	2	1	0	UMRET2/UMUNK3
2	1	1	0	9	5	1	80	UMRET3/UMUNK4
1	1	1	0	8	4	2	55	UMRET4/UMUNK5

52 COMPOUNDS PROCESSED, 11 FOUND

COMPOUND			SEARCH					SAT	CHRO			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	UM	1	-157	156	156	.	1	983	.	128	156	.	1
2	UM	2	-17	18	.	.	.	.	.	50	.	.	.
3	UM	3	-29	29	.	.	.	.	.	94	27	.	1
4	UM	4	-39	39	.	.	.	.	.	62	38	.	1
5	UM	5	-53	53	.	.	.	.	.	64	.	.	.
6	UM	6	-90	90	89	-1	1	986	.	84	89	.	1
7	UM	7	-108	108	109	1	1	991	.	43	109	.	1
8	UM	8	-109	109	.	.	.	.	.	56	.	.	.
9	UM	9	-123	123	.	.	.	.	.	53	.	.	.
10	UM	10	-122	122	.	.	.	.	.	76	.	.	.
11	UM	11	-133	133	.	.	.	.	.	101	.	.	.
12	UM	12	-149	148	.	.	.	.	.	96	.	.	.
13	UM	53	-138	137	.	.	.	.	.	45	138	.	1
14	UM	13	-368	368	368	.	1	993	.	114	368	.	1
15	UM	51	-158	156	.	.	.	.	.	55	.	.	.
16	UM	14	-174	173	.	.	.	.	.	63	.	.	.
17	UM	15	-177	176	.	.	.	.	.	71	.	.	.
18	UM	16	-191	190	.	.	.	.	.	96	.	.	.
19	UM	17	-201	200	.	.	.	.	.	83	.	.	.
20	UM	18	-217	216	.	.	.	.	.	62	.	.	.
21	UM	19	-215	214	213	-1	2	997	.	65	213	.	1
22	UM	20	-220	219	.	.	.	.	.	72	.	.	.
23	UM	21	-207	206	.	.	.	.	.	101	.	.	.
24	UM	22	-240	239	.	.	.	.	.	97	.	.	.
25	UM	23	-247	246	.	.	.	.	.	117	.	.	.
26	UM	24	-258	257	.	.	.	.	.	43	.	.	.
27	UM	25	-260	259	.	.	.	.	.	83	.	.	.
28	UM	26	-288	288	.	.	.	.	.	63	.	.	.
29	UM	27	-294	294	.	.	.	.	.	75	.	.	.
30	UM	28	-306	306	.	.	.	.	.	130	.	.	.
31	UM	29	-315	315	.	.	.	.	.	129	.	.	.
32	UM	30	-362	362	.	.	.	.	.	98	.	.	.
33	UM	31	-318	318	.	.	.	.	.	97	.	.	.
34	UM	32	-317	317	.	.	.	.	.	78	317	.	1
35	UM	33	-320	320	.	.	.	.	.	75	.	.	.
36	UM	34	-342	342	.	.	.	.	.	63	.	.	.
37	UM	35	-366	366	.	.	.	.	.	173	367	.	1
38	UM	36	-464	464	.	.	.	.	.	117	464	.	1
39	UM	37	-381	381	.	.	.	.	.	43	380	.	1
40	UM	38	-412	412	.	.	.	.	.	43	413	.	1
41	UM	39	-413	413	412	-1	1	929	.	83	413	1	1
42	UM	40	-418	418	.	.	.	.	.	164	.	.	.
43	UM	41	-435	435	436	1	1	997	.	56	.	.	.
44	UM	42	-441	441	441	.	1	994	.	98	441	.	1
45	UM	43	-445	445	.	.	.	.	.	92	446	.	1
46	UM	44	-466	466	.	.	.	.	.	112	466	.	1
47	UM	45	-502	503	.	.	.	.	.	106	504	.	1
48	UM	46	-541	542	542	.	1	994	.	95	542	.	1
49	UM	47	-565	566	567	1	2	958	.	104	567	.	1
50	UM	48	-571	572	572	.	1	900	.	106	572	.	1
51	UM	49	-584	586	.	.	.	.	.	106	588	.	1
52	UM	50	-650	652	.	.	.	.	.	146	653	.	1

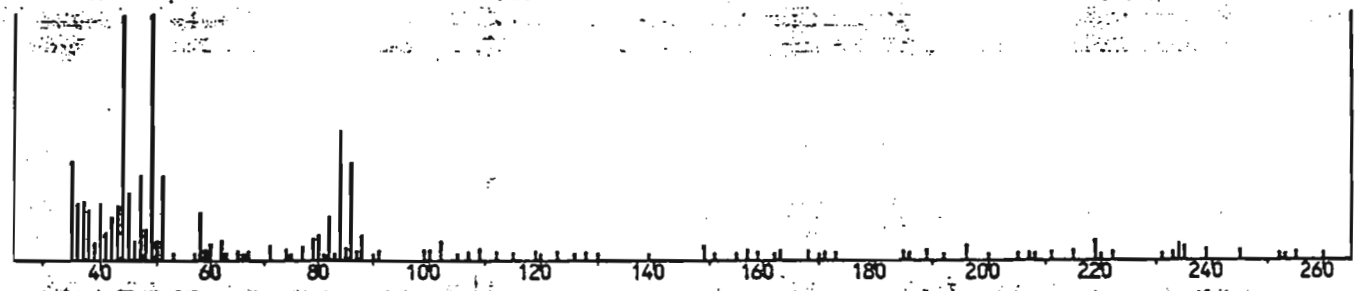
CKQB001IV 6

05/18/90 0950
OWAC -- SPS

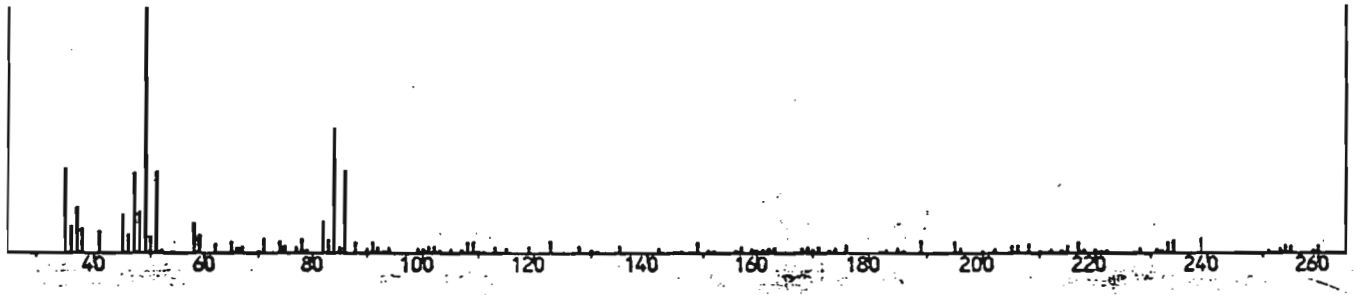
Sample: BLANK SHO#VBLKP1
Conditions: GC/MS OWAC
Method: CLP_VOL Matrix: WATER BLANK Submitted by: AQUTEC
Volume: 5.000 ml

LIBRARYUM#6 ——— METHYLENE CHLORIDE

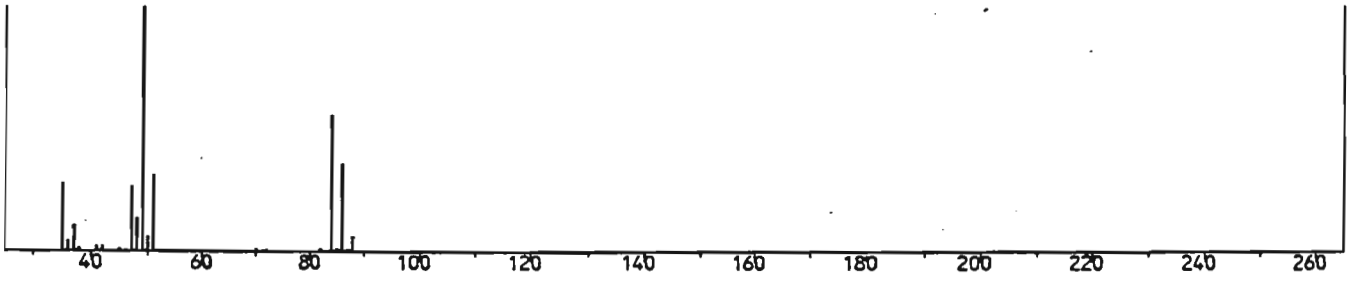
Unenhanced spectrum -- Scan # 89 Base m/z: 49 --- RIC: 10768. Max intensity: 1120



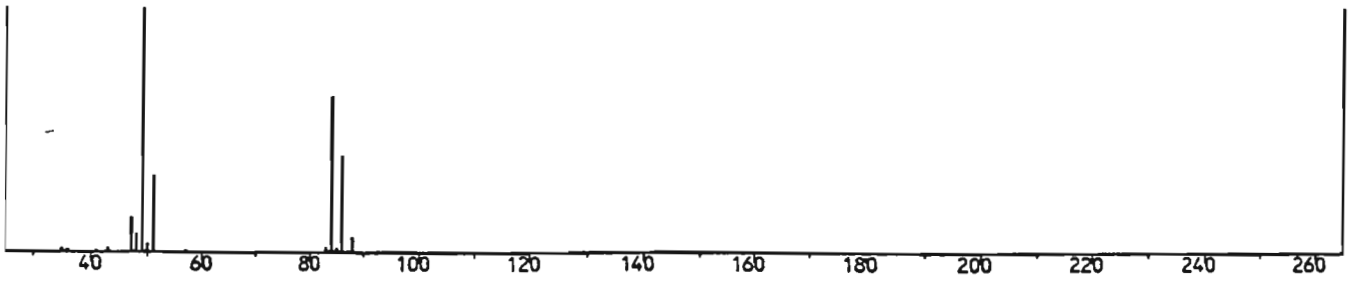
Enhanced (S 15B 2N 0T) -- Scan # 89 Base m/z: 49 --- RIC: 6976. Max intensity: 1078



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



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



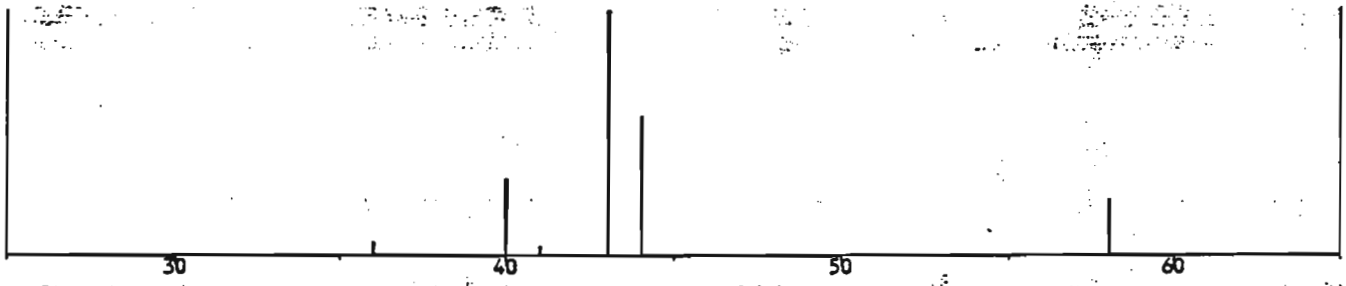
CKQB001IV 7

05/18/90 0950
OWAC -- SPS

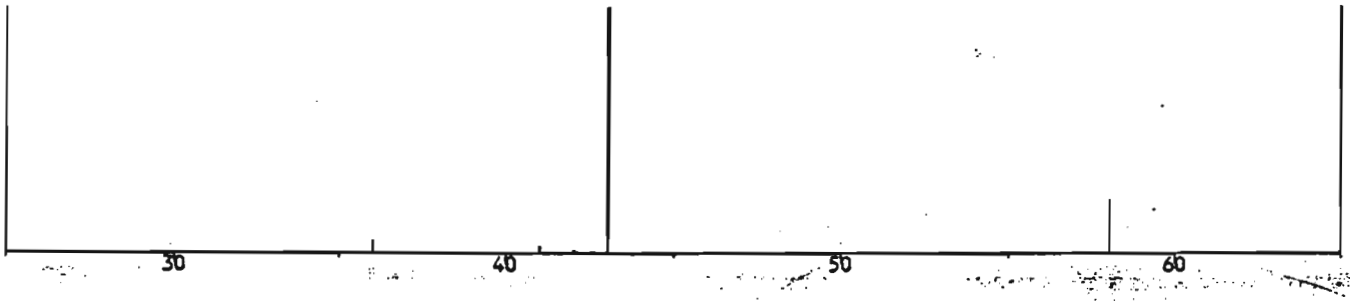
Sample: BLANK SNOPVBLKP1
Conditions: GC/MS OWAC
Method: CLP_VOL Matrix: WATER BLANK Submitted by: AQUTEC
Volume: 5.000 ml

LIBRARYUM#7 ACETONE

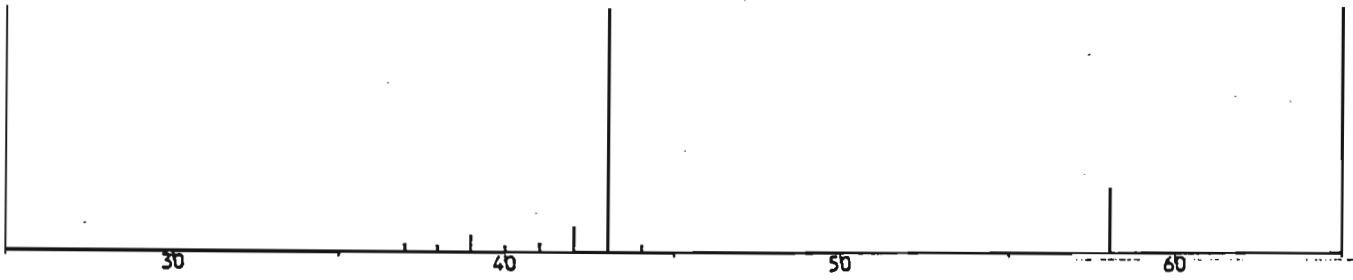
Unenhanced spectrum -- Scan # 109 Base m/z: 43 --- RIC: 1774. Max intensity: 808



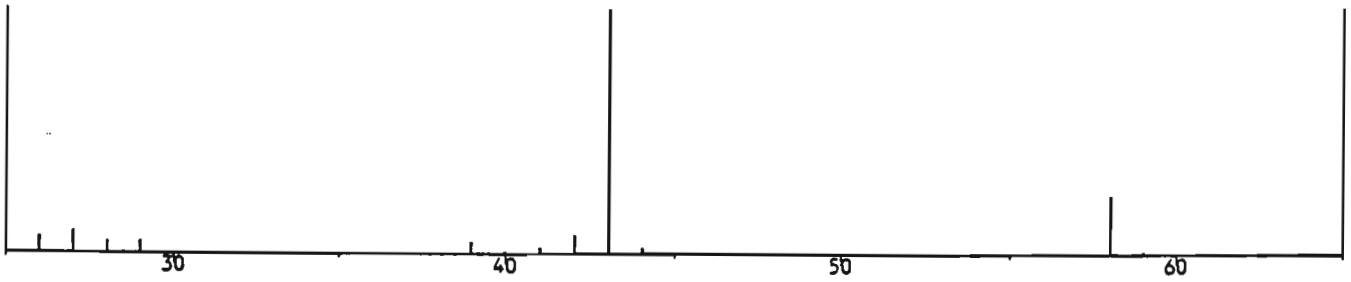
Enhanced (S 15B 2N 0T) -- Scan # 109 Base m/z: 43 --- RIC: 1042. Max intensity: 796



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

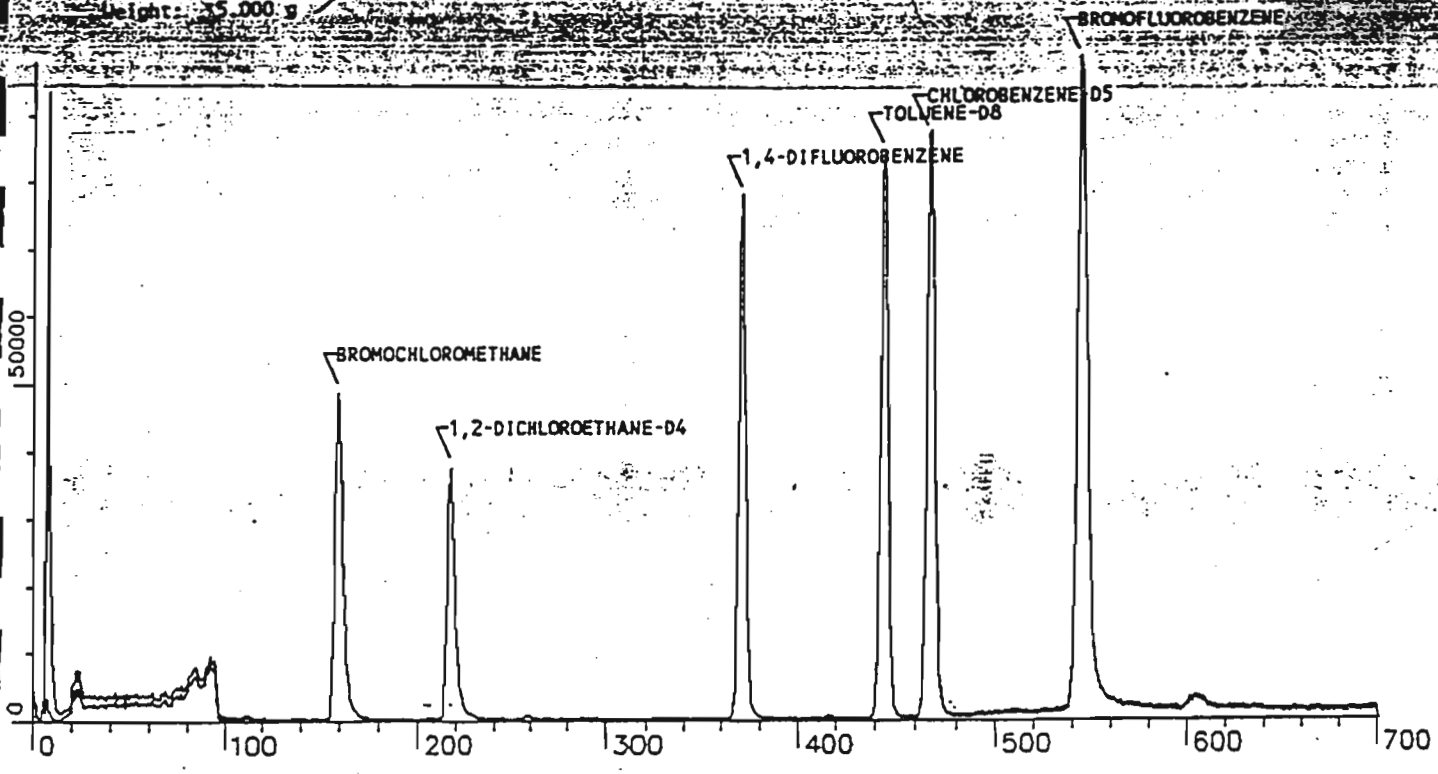


LIBRARYUM#7 CAS: 67-64-1 2-PROPANONE (C3H6O)



CKQB002IV 1
05/18/90 1045
OWAC -- SPS

Sample: BLANK SHO#VBLKP2 + 2.98G ARTIFICIAL SOIL
Conditions: GC/MS OWAC
Method: CLP.VOL Matrix: SOIL BLANK Submitted by: AQUTEC
Weight: 35.000 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	26184.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	371	18:33	13	1.000	A BB	118025	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	467	23:21	36	1.000	A BB	100812	50.000 PPB		36	CHLOROBENZENE-D5
19	65	217	10:51	1	1.365	A BB	60834.	52.053 PPB	104.1	19	1,2-DICHLOROETHANE-D4
42	98	445	22:15	36	0.953	A BB	121097.	53.061 PPB	106.1	42	TOLUENE-D8
46	95	545	27:15	36	1.167	A BB	81145.	51.993 PPB	104.0	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	3	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	10:54	3	1.362	1.00	52.05	50.00	2.323	2.232	1.04	19	1,2-DICHLOROETHANE-D4
42	22:15	0	0.953	1.00	53.06	50.00	1.201	1.132	1.06	42	TOLUENE-D8
46	27:15	0	1.167	1.00	51.99	50.00	0.805	0.774	1.04	46	BROMOFLUOROBENZENE

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

CKQB002IV 2

05/18/90 1045
OWAC -- SPS

Sample: BLANK SMO#VBLKP2 + 2.98G ARTIFICIAL SOIL
Conditions: GC/MS OWAC
Method: CLP.VOL Matrix: SOIL BLANK Submitted by: AQUTEC
Weight: 5.000 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	0.579	A BB	2300.	2.784 PPB			6	METHYLENE CHLORIDE
7	43	111	5:33	1	0.698	A BB	1571.	4.144 PPB			7	ACETONE
10	NOT FOUND										10	CARBON DISULFIDE
12	NOT FOUND										12	1,1-DICHLOROETHENE
14	NOT FOUND										14	1,1-DICHLOROETHANE
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
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
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	384	19:12	36	0.822	A BB	146.	0.096 PPB			37	4-METHYL-2-PENTANONE
38	43	416	20:48	36	0.891	A BV	650.	0.500 PPB			38	2-HEXANONE
39	NOT FOUND										39	1,1,2,2-TETRACHLOROETHANE
40	NOT FOUND										40	TETRACHLOROETHENE
43	92	448	22:24	36	0.959	A BB	162.	0.103 PPB			43	TOLUENE
44	112	471	23:33	36	1.009	A BB	203.	0.097 PPB			44	CHLOROBENZENE
45	NOT FOUND										45	ETHYLBENZENE
47	104	570	28:30	36	1.221	A BB	164.	0.091 PPB			47	STYRENE
48	NOT FOUND										48	M-XYLENE
49	NOT FOUND										49	O- & P-XYLENE
52	NOT FOUND										52	XYLENE (TOTAL)

CKQB002IV 3

Sample: BLANK SMO#VBLKP2 + 2.98G ARTIFICIAL SOIL
Conditions: GC/MS OWAC
Method: CLP.VOL Matrix: SOIL BLANK Submitted by: AQUTEC
Weight: 5.000 g

05/18/90 1045
OWAC -- SPS

No	Ret(L)	Diff	RRT(L)	Ratio	Amt	Amt(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		0.256							4	VINYL CHLORIDE
5	2:48		0.350							5	CHLOROETHANE
6	4:33	-3	0.569	1.02	2.78	50.00	0.088	1.578	0.06	6	METHYLENE CHLORIDE
7	5:33	0	0.694	1.01	4.14	50.00	0.060	0.724	0.08	7	ACETONE
10	6:15		0.781							10	CARBON DISULFIDE
12	7:36		0.950							12	1,1-DICHLOROETHENE
14	8:51		1.106							14	1,1-DICHLOROETHANE
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
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
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	0.822	1.00	0.10	50.00	0.001	0.752	0.00	37	4-METHYL-2-PENTANONE
38	20:48	0	0.891	1.00	0.50	50.00	0.006	0.645	0.01	38	2-HEXANONE
39	20:48		0.891							39	1,1,2,2-TETRACHLOROETHANE
40	21:03		0.901							40	TETRACHLOROETHENE
43	22:27	3	0.961	1.00	0.10	50.00	0.002	0.777	0.00	43	TOLUENE
44	23:30	3	1.006	1.00	0.10	50.00	0.002	1.037	0.00	44	CHLOROBENZENE
45	25:21		1.086							45	ETHYLBENZENE
47	28:30	0	1.221	1.00	0.09	50.00	0.002	0.896	0.00	47	STYRENE
48	28:48		1.233							48	M-XYLENE
49	29:27		1.261							49	O- & P-XYLENE
52	28:48		1.233							52	XYLENE (TOTAL)

CKQB002IV$_{14}$
05/18/90 1045
OWAC -- SPS

Sample: BLANK SHO#VBLKP2 + 2.98G ARTIFICIAL SOIL
Conditions: GC/MS OWAC
Method: CLP.VOL Matrix: SOIL BLANK Submitted by: AQUTEC
Weight: 5.000 g

Summary of Tentatively Identified Compounds

Rank	Scan	Dec. Time	En.RIC Height	Est. Amount	Ref	Name
ISTD	159	7.95	40127.	50.0	1	BROMOCHLOROMETHANE
ISTD	371	18.55	51968.	50.0	13	1,4-DIFLUOROBENZENE
ISTD	467	23.35	66084.	50.0	36	CHLOROBENZENE-D5
~~1~~	~~468~~	~~23.40~~	~~80255.~~	~~60.7~~	~~36~~	~~UNKNOWN~~ ISTD #36

Ø TIC's for reporting

Cp

PROCEDURE: JCA DIAGNOSTIC REPORT 5/18/90 11:21:43
DATA FILE: CKQB002IV
REFERENCE: UTAB11
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	13	4	2	504	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	4	1	100	UMRET3/UMUNK4
1	1	1	0	8	3	2	58	UMRET4/UMUNK5

52 COMPOUNDS PROCESSED, 11 FOUND

COMPOUND			SEARCH					SAT	CHRO			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	UM	1	-157	159	159	.	1	978	.	128	159	.	1
2	UM	2	-17	34	37	3	1	967	.	50	.	.	.
3	UM	3	-29	44	.	.	.	.	.	94	.	.	.
4	UM	4	-39	53	.	.	.	.	.	62	.	.	.
5	UM	5	-53	65	.	.	.	.	.	64	.	.	.
6	UM	6	-90	97	92	-5	1	986	.	84	92	.	1
7	UM	7	-108	113	112	-1	2	996	.	43	111	-1	1
8	UM	8	-109	114	.	.	.	.	.	56	.	.	.
9	UM	9	-123	126	.	.	.	.	.	53	.	.	.
10	UM	10	-122	125	.	.	.	.	.	76	.	.	.
11	UM	11	-133	135	.	.	.	.	.	101	.	.	.
12	UM	12	-149	149	.	.	.	.	.	96	.	.	.
13	UM	53	-138	139	.	.	.	.	.	45	.	.	.
14	UM	13	-368	371	371	.	1	993	.	114	371	.	1
15	UM	51	-158	160	.	.	.	.	.	55	.	.	.
16	UM	14	-174	176	.	.	.	.	.	63	.	.	.
17	UM	15	-177	179	.	.	.	.	.	71	.	.	.
18	UM	16	-191	193	.	.	.	.	.	96	.	.	.
19	UM	17	-201	203	.	.	.	.	.	83	.	.	.
20	UM	18	-217	219	.	.	.	.	.	62	.	.	.
21	UM	19	-215	217	217	.	1	1000	.	65	217	.	1
22	UM	20	-220	222	.	.	.	.	.	72	.	.	.
23	UM	21	-207	209	.	.	.	.	.	101	.	.	.
24	UM	22	-240	242	.	.	.	.	.	97	.	.	.
25	UM	23	-247	249	.	.	.	.	.	117	.	.	.
26	UM	24	-258	260	.	.	.	.	.	43	.	.	.
27	UM	25	-260	262	.	.	.	.	.	83	.	.	.
28	UM	26	-288	291	.	.	.	.	.	63	.	.	.
29	UM	27	-294	297	.	.	.	.	.	75	.	.	.
30	UM	28	-306	309	.	.	.	.	.	130	.	.	.
31	UM	29	-315	318	.	.	.	.	.	129	.	.	.
32	UM	30	-362	365	.	.	.	.	.	98	.	.	.
33	UM	31	-318	321	.	.	.	.	.	97	.	.	.
34	UM	32	-317	320	.	.	.	.	.	78	.	.	.
35	UM	33	-320	323	.	.	.	.	.	75	.	.	.
36	UM	34	-342	345	.	.	.	.	.	63	.	.	.
37	UM	35	-366	369	.	.	.	.	.	173	.	.	.
38	UM	36	-464	467	467	.	1	992	.	117	467	.	1
39	UM	37	-381	384	.	.	.	.	.	43	384	.	1
40	UM	38	-412	415	.	.	.	.	.	43	416	.	1
41	UM	39	-413	416	.	.	.	.	.	83	.	.	.
42	UM	40	-418	421	.	.	.	.	.	164	.	.	.
43	UM	41	-435	438	.	.	.	.	.	56	.	.	.
44	UM	42	-441	444	445	1	1	992	.	98	445	.	1
45	UM	43	-445	448	447	-1	1	910	.	92	448	1	1
46	UM	44	-466	470	.	.	.	.	.	112	471	.	1
47	UM	45	-502	506	.	.	.	.	.	106	.	.	.
48	UM	46	-541	545	545	.	1	994	.	95	545	.	1
49	UM	47	-565	570	570	.	2	550	.	104	570	.	1
50	UM	48	-571	576	.	.	.	.	.	106	.	.	.
51	UM	49	-584	589	.	.	.	.	.	106	.	.	.
52	UM	50	-650	655	.	.	.	.	.	146	657	.	1

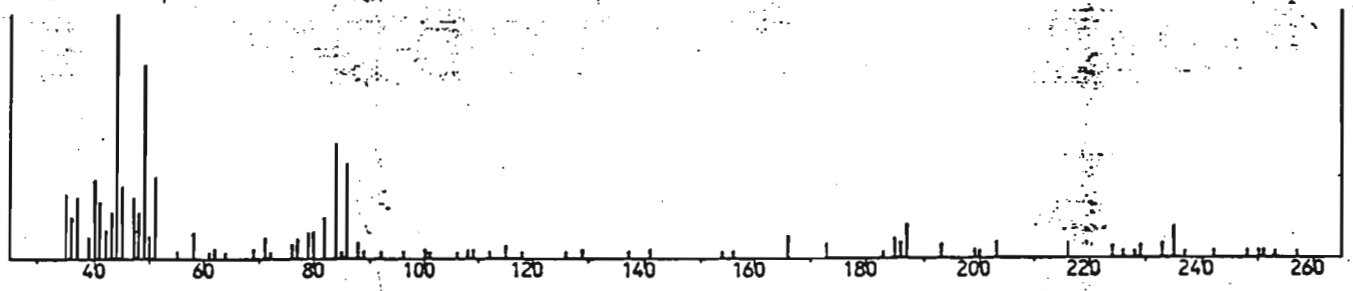
CKQB002IV 6

05/18/90 1045
OWAC -- SPS

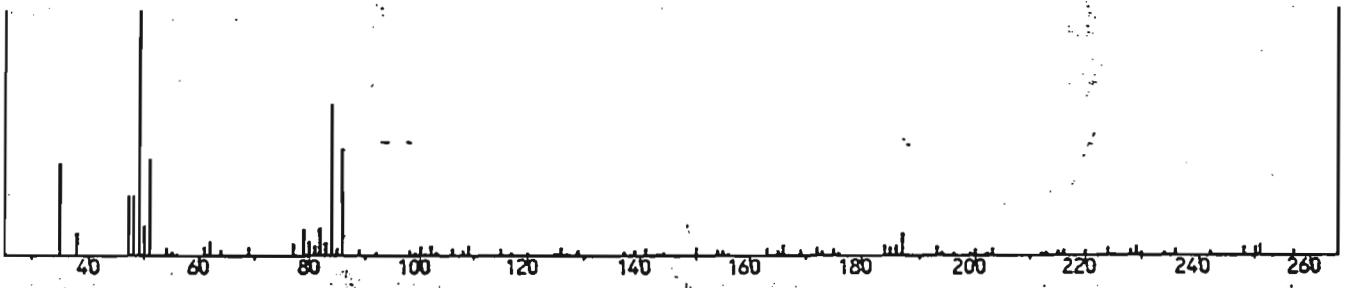
Sample: BLANK SMO#VBLKP2 + 2.98G ARTIFICIAL SOIL
Conditions: GC/MS OWAC
Method: CLP.VOL Matrix: SOIL BLANK Submitted by: AQUTEC
Weight: 5.000 g

LIBRARYUM#6 METHYLENE CHLORIDE

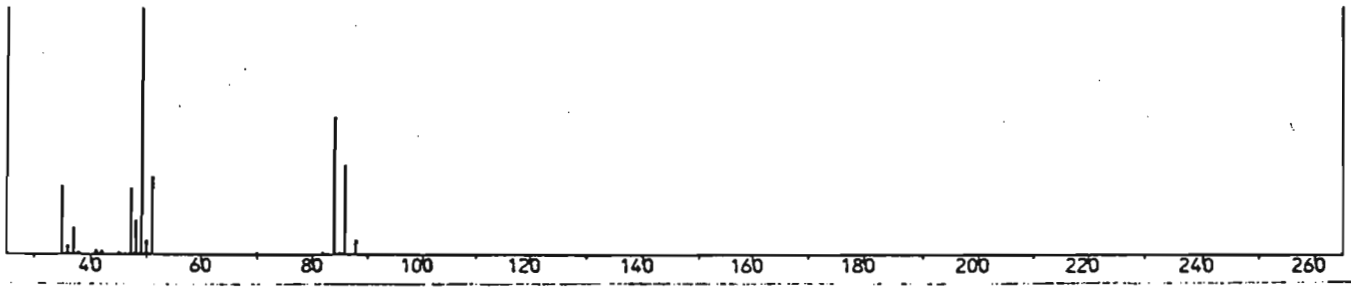
Unenhanced spectrum -- Scan # 92 Base m/z: 44 --- RIC: 9728. Max intensity: 1176



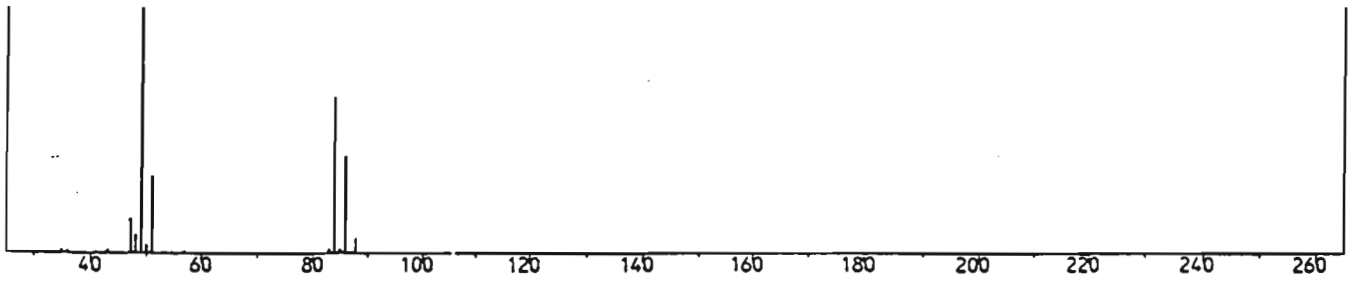
Enhanced (S 15B 2N 0T) -- Scan # 92 Base m/z: 49 --- RIC: 4936. Max intensity: 856



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



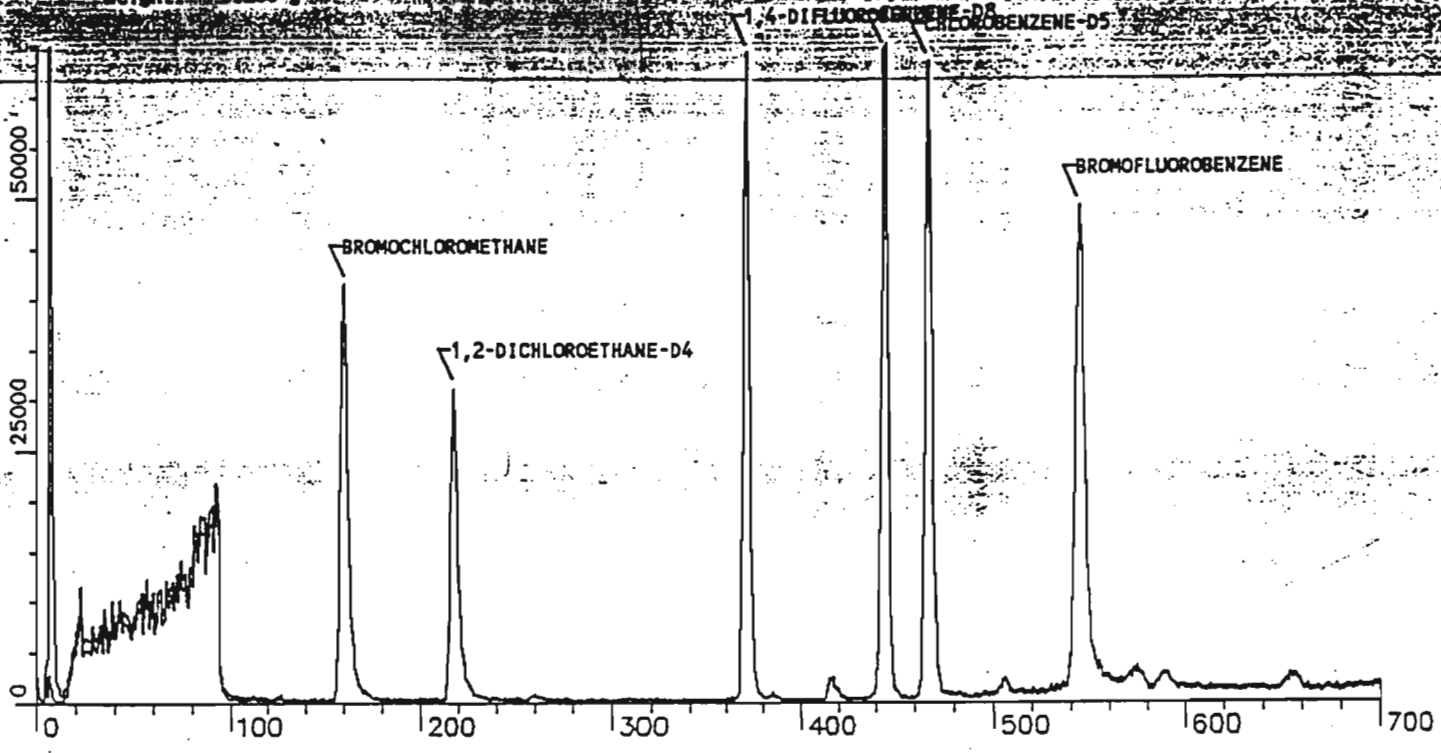
LIBRARYUM#6 CAS: 75-09-2 METHANE, DICHLORO- (CH2Cl2)



CKTB001BV 1

05/22/90 0827
OWAC -- CMP

Sample: BLANK SMOSVBLK01 + 3.20GRAMS ARTIFICIAL SOIL
Conditions: GC/MS OWAC
Method: CLP.VOL Matrix: SOIL BLANK Submitted by: AQUTEC
Weight: 3.200 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	23420.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	371	18:33	13	1.000	A BB	97548.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	467	23:21	36	1.000	A BB	70518.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	217	10:51	1	1.356	A BB	44828.	49.828 PPB	99.7	19	1,2-DICHLOROETHANE-D4
42	98	444	22:12	36	0.951	A BB	87994.	52.554 PPB	105.1	42	TOLUENE-D8
46	95	545	27:15	36	1.167	A BB	38193.	49.302 PPB	98.6	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	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	1.00	49.83	50.00	1.914	1.921	1.00	19	1,2-DICHLOROETHANE-D4
42	22:12	0	0.951	1.00	52.55	50.00	1.248	1.187	1.05	42	TOLUENE-D8
46	27:15	0	1.167	1.00	49.30	50.00	0.542	0.549	0.99	46	BROMOFLUOROBENZENE

CKT050BHV (05/22/90 6:26) RFs loaded on MSDP1 6/07/90 14:16:45

CKTB001BV 2

05/22/90 0827
OWAC -- CMP

Sample: BLANK SMO#VBLK01 + 3.20GRAMS ARTIFICIAL SOIL
Conditions: GC/MS OWAC
Method: CLP.VOL Matrix: SOIL BLANK Submitted by: AQUTEC
Weight: 5.200 g

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
2	50	35	1:45	1	0.219	A BB	508.	1.330 PPB		2	CHLOROMETHANE
3	94	45	2:15	1	0.281	A BB	377.	0.748 PPB		3	BROMOMETHANE
4	NOT FOUND									4	VINYL CHLORIDE
5	NOT FOUND									5	CHLOROETHANE
6	84	92	4:36	1	0.575	A BB	1744.	2.956 PPB		6	METHYLENE CHLORIDE
7	43	112	5:36	1	0.700	A BB	661.	3.635 PPB		7	ACETONE
10	76	127	6:21	1	0.794	A BB	842.	0.617 PPB		10	CARBON DISULFIDE
12	NOT FOUND									12	1,1-DICHLOROETHENE
14	NOT FOUND									14	1,1-DICHLOROETHANE
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
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	130	309	15:27	13	0.833	A BB	178.	0.201 PPB		28	TRICHLOROETHENE
29	NOT FOUND									29	DIBROMOCHLOROMETHANE
31	NOT FOUND									31	1,1,2-TRICHLOROETHANE
32	78	322	16:06	13	0.868	A BB	183.	0.099 PPB		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	0.824	A BB	1047.	1.250 PPB		37	4-METHYL-2-PENTANONE
38	43	416	20:48	36	0.891	A BB	1610.	2.373 PPB		38	2-HEXANONE
39	83	417	20:51	36	0.893	A BB	2576.	3.633 PPB		39	1,1,2,2-TETRACHLOROETHANE
40	164	420	21:00	36	0.899	A BB	132.	0.177 PPB		40	TETRACHLOROETHENE
43	92	447	22:21	36	0.957	A BB	265.	0.248 PPB		43	TOLUENE
44	112	478	23:30	36	1.006	A BB	871.	0.627 PPB		44	CHLOROBENZENE
45	106	505	25:15	36	1.081	A BB	900.	1.791 PPB		45	ETHYLBENZENE
47	104	570	28:30	36	1.221	A BB	1456.	1.591 PPB		47	STYRENE
48	106	575	28:45	36	1.231	A BB	1705.	2.726 PPB		48	M-XYLENE
49	106	591	29:33	36	1.266	A BB	1687.	3.071 PPB		49	O- & P-XYLENE
52	106	591	29:33	36	1.266	A*BB	3392.	5.424 PPB		52	XYLENE (TOTAL)

CP

CKTB001BV 3

05/22/90 0827
OWAC -- CMP

Sample: BLANK SMO#VBLK01 + 3.20GRAMS ARTIFICIAL SOIL
Conditions: GC/MS OWAC
Method: CLP.VOL Matrix: SOIL BLANK Submitted by: AQUTEC
Weight: 3.200 g

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	0:54	-51*	0.112	1.94	1.33	57.50	0.019	0.816	0.02	2	CHLOROMETHANE
3	1:33	-42*	0.194	1.45	0.75	50.00	0.016	1.076	0.01	3	BROMOMETHANE
4	2:00		0.250							4	VINYL CHLORIDE
5	2:45		0.344							5	CHLOROETHANE
6	4:36	0	0.575	1.00	2.96	50.00	0.074	1.260	0.06	6	METHYLENE CHLORIDE
7	5:36	0	0.700	1.00	3.64	50.00	0.028	0.388	0.07	7	ACETONE
10	6:15	-6	0.781	1.02	0.62	50.00	0.036	2.915	0.01	10	CARBON DISULFIDE
12	7:36		0.950							12	1,1-DICHLOROETHENE
14	8:48		1.100							14	1,1-DICHLOROETHANE
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
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	3	0.830	1.00	0.20	50.00	0.002	0.453	0.00	28	TRICHLOROETHENE
29	15:48		0.852							29	DIBROMOCHLOROMETHANE
31	15:57		0.860							31	1,1,2-TRICHLOROETHANE
32	15:57	-9	0.860	1.01	0.10	50.00	0.002	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	-3	0.822	1.00	1.25	50.00	0.015	0.594	0.03	37	4-METHYL-2-PENTANONE
38	20:48	0	0.891	1.00	2.37	50.00	0.023	0.481	0.05	38	2-HEXANONE
39	20:45	-6	0.889	1.00	3.63	50.00	0.037	0.503	0.07	39	1,1,2,2-TETRACHLOROETHANE
40	21:00	0	0.899	1.00	0.18	50.00	0.002	0.527	0.00	40	TETRACHLOROETHENE
43	22:24	3	0.959	1.00	0.25	50.00	0.004	0.757	0.00	43	TOLUENE
44	23:27	-3	1.004	1.00	0.63	50.00	0.012	0.985	0.01	44	CHLOROBENZENE
45	25:18	3	1.084	1.00	1.79	50.00	0.013	0.356	0.04	45	ETHYLBENZENE
47	28:27	-3	1.218	1.00	1.59	50.00	0.021	0.649	0.03	47	STYRENE
48	28:45	0	1.231	1.00	2.73	50.00	0.024	0.443	0.05	48	M-XYLENE
49	29:24	-9	1.259	1.01	3.07	30.00	0.040	0.389	0.10	49	O- & P-XYLENE
52	28:45	-48*	1.231	1.03	5.42	50.00	0.048	0.443	0.11	52	XYLENE (TOTAL)

CKTB001BV$_{33}$
05/22/90 0827
OWAC -- CMP

Sample: BLANK SMOMVBLK01 + 3.20GRAMS ARTIFICIAL SOIL
Conditions: GC/MS OWAC
Method: CLP.VOL Matrix: SOIL BLANK Submitted by: AQUTEC
Weight: 3.200 g

Summary of Tentatively Identified Compounds

Rank	Scan	Dec. Time	En.RIC Height	Est. Amount	Ref	Name
2	23	1.15	4815.	7.1	1	UNKNOWN
7	43	2.15	3863.	5.7	1	UNKNOWN
10	54	2.70	3479.	5.1	1	UNKNOWN
5	57	2.85	4087.	6.0	1	UNKNOWN
9	63	3.15	3687.	5.4	1	UNKNOWN
8	67	3.35	3763.	5.5	1	UNKNOWN
6	74	3.70	3963.	5.8	1	UNKNOWN
3	81	4.05	4663.	6.9	1	UNKNOWN
~~4~~	~~86~~	~~4.30~~	~~4279.~~	~~6.3~~	~~1~~	~~UNKNOWN~~ TCL #6
ISTD	160	8.00	34028.	50.0	1	BROMOCHLOROMETHANE
ISTD	371	18.55	42816.	50.0	13	1,4-DIFLUOROBENZENE
~~1~~	~~445~~	~~22.25~~	~~61439.~~	~~67.4~~	~~36~~	~~UNKNOWN~~ SS #4 2
ISTD	467	23.35	45597.	50.0	36	CHLOROBENZENE-D5

background noise

ϕ TIC's for reporting

Cip

PROCEDURE: TCA[illegible] DIAGNOSTIC REPORT 5/22/90 9:09:19
DATA FILE: CKTB0018V
REFERENCE: JTAB11
NAME LIST: UM INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: UMRET[illegible]

STANDARDS				PLUS UNKNOWNS				LIST NAMES
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
1	1	1	0	13	6	90	344	UMRET1/UMUNK1
2	2	1	0	14	3	1	114	UMRET2/UMUNK2
2	2	1	0	13	2	1	0	UMRET2/UMUNK3
2	1	1	0	9	6	1	61	UMRET3/UMUNK4
1	1	1	0	8	6	16	86	UMRET4/UMUNK5

52 COMPOUNDS PROCESSED, 17 FOUND

COMPOUND			SEARCH					SAT	CHRO			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	UM	1	-158	160	160	.	1	981	.	128	160	.	1
2	UM	2	-18	34	36	2	2	984	.	50	35	-1	1
3	UM	3	-30	44	.	.	.	.	.	94	45	.	1
4	UM	4	-40	53	52	-1	5	1000	.	62	.	.	.
5	UM	5	-55	66	67	1	3	986	.	64	.	.	.
6	UM	6	-89	96	.	.	.	.	.	84	.	.	.
7	UM	7	-113	118	112	-6	1	996	.	43	112	.	1
8	UM	8	-112	117	.	.	.	.	.	56	.	.	.
9	UM	9	-125	128	.	.	.	.	.	53	.	.	.
10	UM	10	-122	126	127	1	3	1000	.	76	127	.	1
11	UM	11	-134	136	.	.	.	.	.	101	.	.	.
12	UM	12	-151	151	.	.	.	.	.	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	217	-1	1	996	.	65	217	.	1
22	UM	20	-224	225	.	.	.	.	.	72	.	.	.
23	UM	21	-210	211	.	.	.	.	.	101	.	.	.
24	UM	22	-242	243	.	.	.	.	.	97	.	.	.
25	UM	23	-250	251	.	.	.	.	.	117	.	.	.
26	UM	24	-262	263	.	.	.	.	.	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	309	.	1
31	UM	29	-316	317	.	.	.	.	.	129	.	.	.
32	UM	30	-365	365	.	.	.	.	.	98	.	.	.
33	UM	31	-320	320	.	.	.	.	.	97	.	.	.
34	UM	32	-320	320	.	.	.	.	.	78	322	.	1
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	385	.	.	.	.	.	43	385	.	1
40	UM	38	-416	417	417	.	1	971	.	43	416	-1	1
41	UM	39	-415	416	416	.	1	996	.	83	417	1	1
42	UM	40	-421	422	.	.	.	.	.	164	420	.	1
43	UM	41	-438	438	439	1	1	998	.	56	.	.	.
44	UM	42	-444	444	444	.	1	987	.	98	444	.	1
45	UM	43	-448	448	.	.	.	.	.	92	447	.	1
46	UM	44	-469	469	.	.	.	.	.	112	470	.	1
47	UM	45	-506	507	506	-1	1	978	.	106	505	-1	1
48	UM	46	-545	546	545	-1	1	994	.	95	545	.	1
49	UM	47	-569	570	571	1	4	995	.	104	570	-1	1
50	UM	48	-575	576	575	-1	2	983	.	106	575	.	1
51	UM	49	-589	590	590	.	2	987	.	106	591	1	1
52	UM	50	-653	654	.	.	.	.	.	146	654	.	1

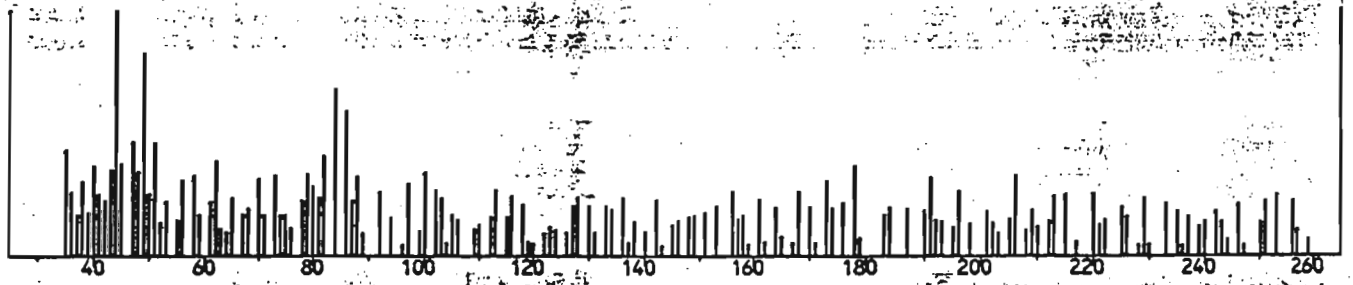
CKTB001BV 7

05/22/90 0827
OWAC -- CMP

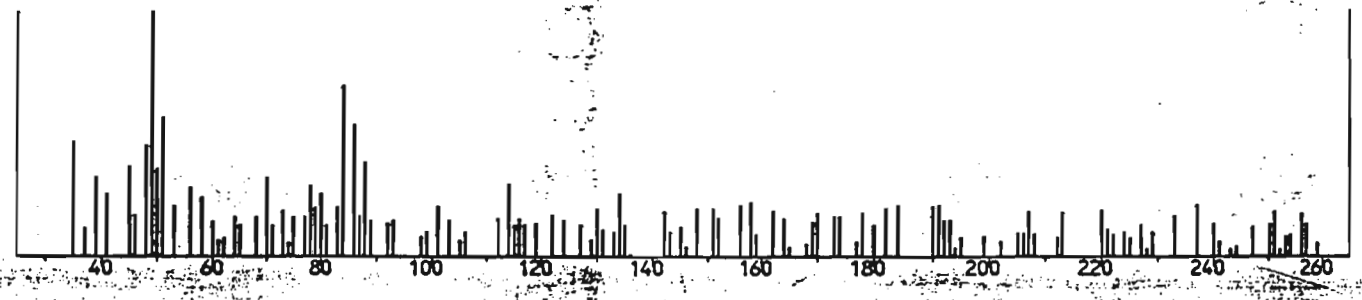
Sample: BLANK SMO#VBLK01 + 3.20GRAMS ARTIFICIAL SOIL
Conditions: GC/MS OWAC
Method: CLP.VOL Matrix: SOIL BLANK Submitted by: AQUTEC
Weight: 3.200 g

LIBRARYUM#6 METHYLENE CHLORIDE

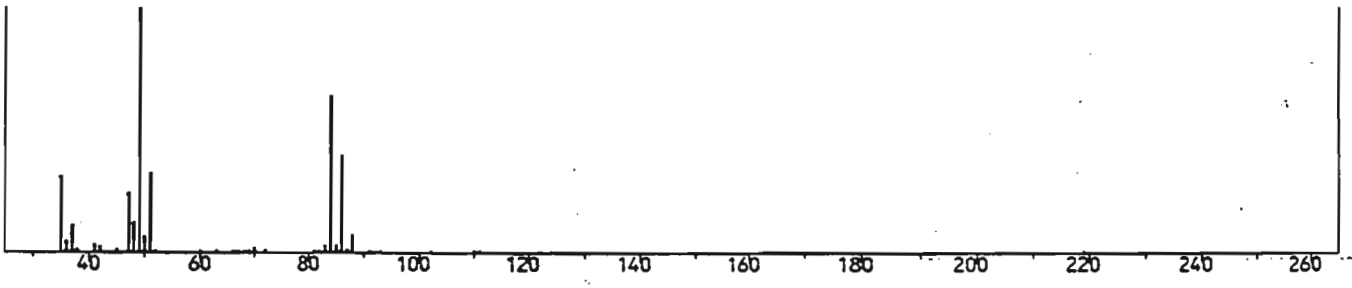
Unenhanced spectrum -- Scan # 92 Base m/z: 44 --- RIC: 21760. Max intensity: 693



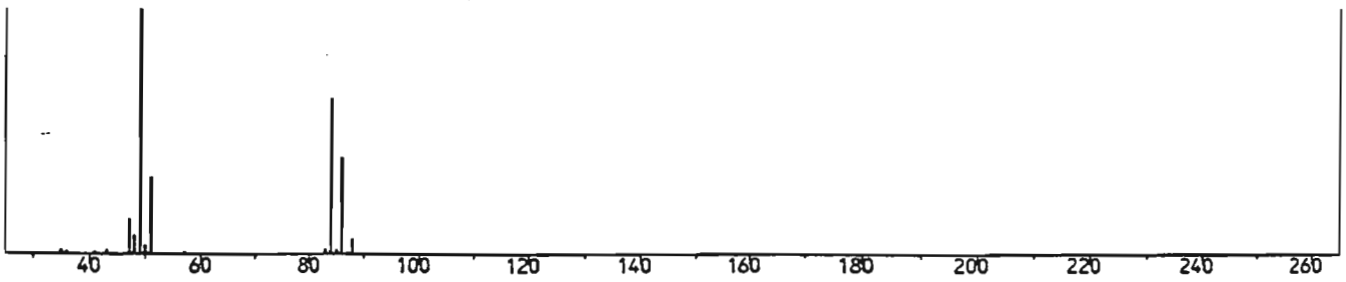
Enhanced (S 15B 2N 0T) -- Scan # 92 Base m/z: 49 --- RIC: 10144. Max intensity: 493



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



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



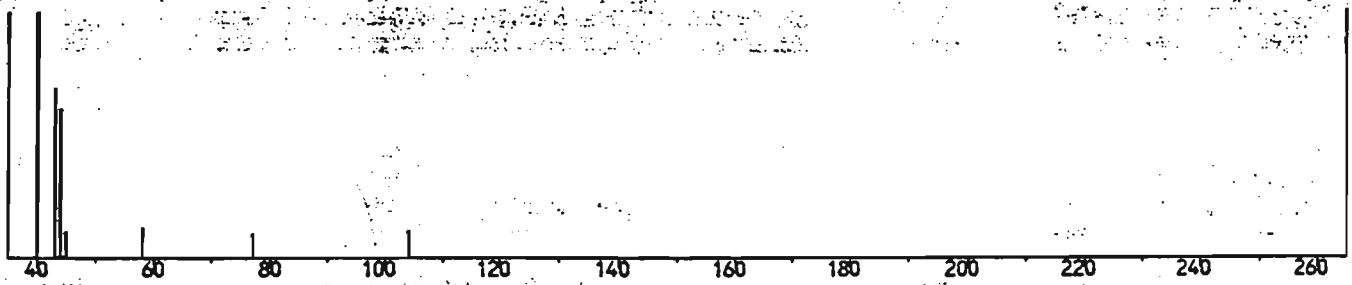
CKTB001BV 8

05/22/90 0827
OWAC -- CMP

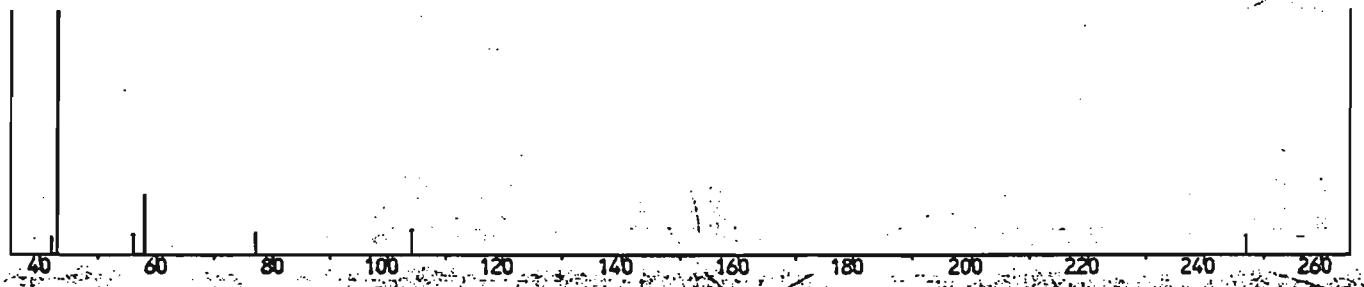
Sample: BLANK SMO#VBLKQ1 + 3.20GRAMS ARTIFICIAL SOIL
Conditions: GC/MS OWAC
Method: CLP_VOL Matrix: SOIL_BLANK Submitted by: AQUTEC
Weight: 3.200 g

LIBRARYUM#7 ACETONE

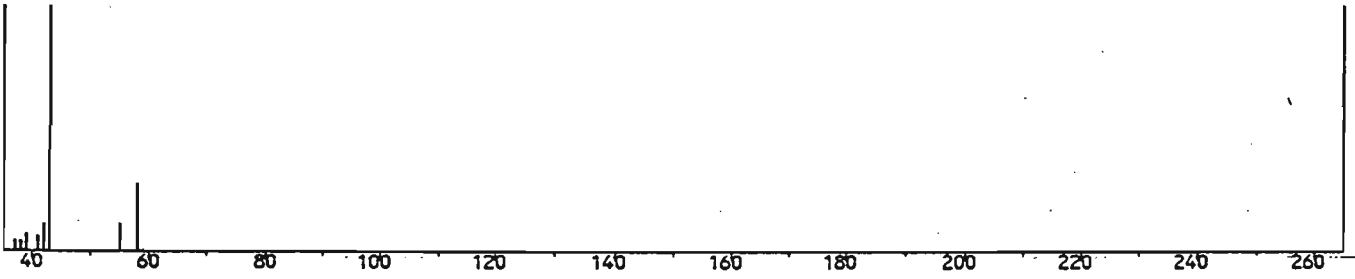
Unenhanced spectrum -- Scan # 112 Base m/z: 40 --- RIC: 865. Max intensity: 317



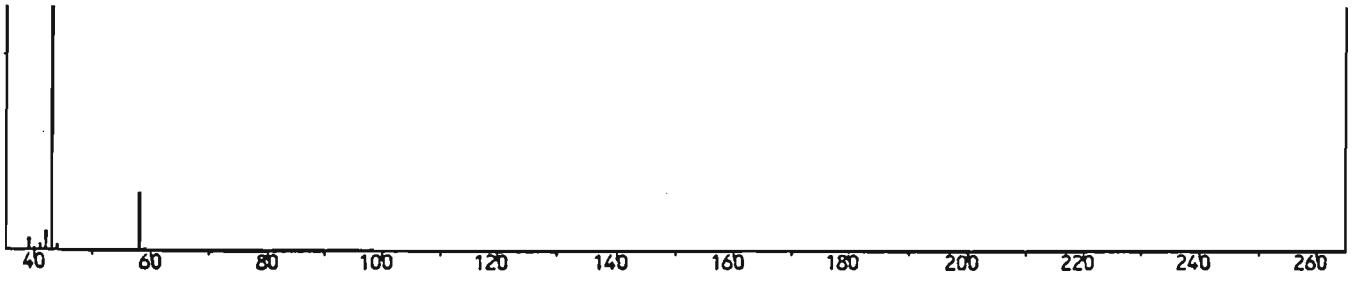
Enhanced (S 15B 2N 0T) -- Scan # 112 Base m/z: 43 --- RIC: 282. Max intensity: 170



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

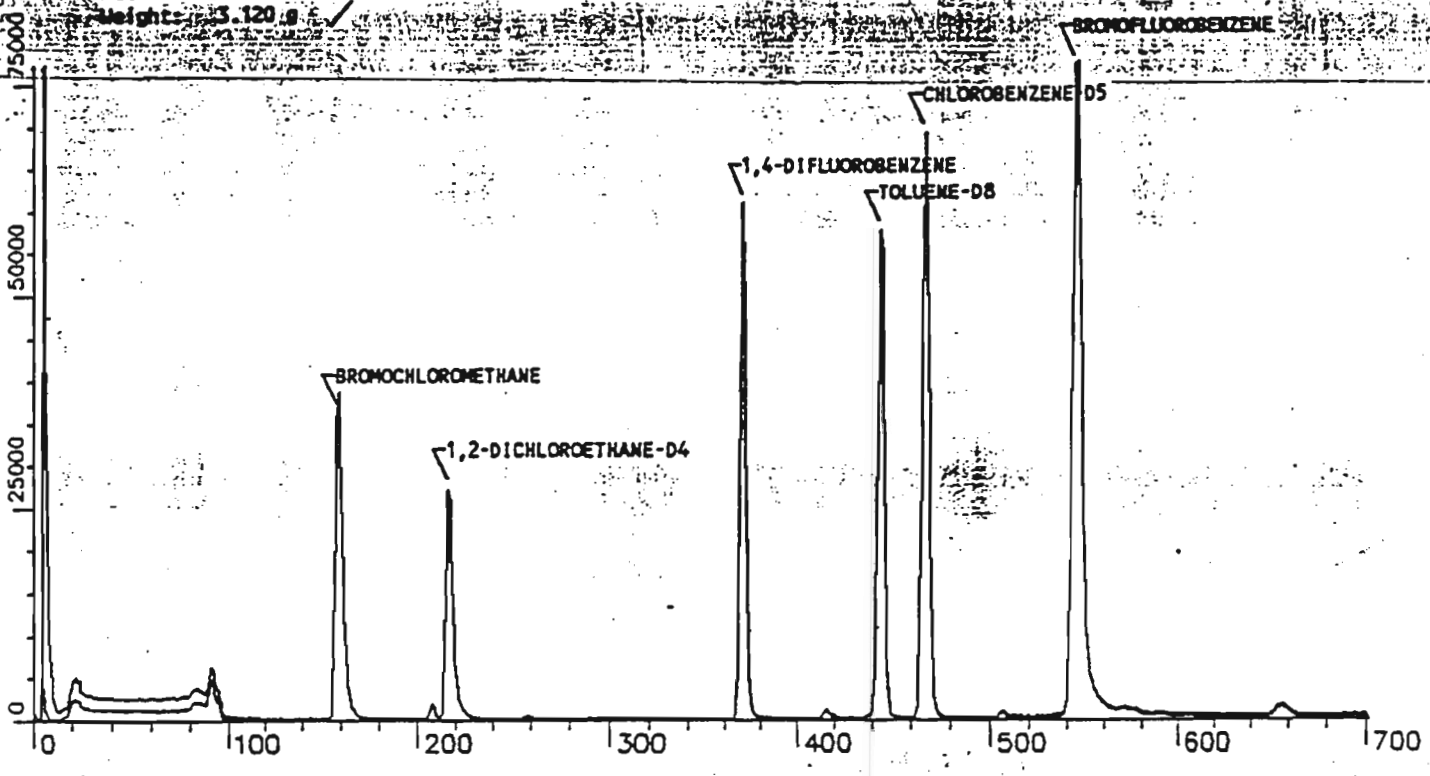


LIBRARYUM#7 CAS: 67-64-1 2-PROPANONE (C3H6O)



CKVB001AV ,
05/24/90 0601
OWAC -- KLK

Sample: BLANK SMOMVBLK03
Conditions: GC/MS OWAC
Method: 624 Matrix: SOIL BLANK Submitted by: AQUTEC
Purgeweight: 5.120 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	20431.	50.000	PPB		1	BROMOCHLOROMETHANE
13	114	370	18:30	13	1.000	A BB	92170.	50.000	PPB		13	1,4-DIFLUOROBENZENE
36	117	467	23:21	36	1.000	A BB	77529.	50.000	PPB		36	CHLOROBENZENE-D5
19	65	216	10:48	1	1.367	A BB	44146.	48.961	PPB	97.9	19	1,2-DICHLOROETHANE-D4
42	98	444	22:12	36	0.951	A BB	80073.	47.463	PPB	94.9	42	TOLUENE-D8
46	95	545	27:15	36	1.167	A BB	65002.	48.836	PPB	97.7	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	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	48.96	50.00	2.161	2.207	0.98	19	1,2-DICHLOROETHANE-D4
42	22:18	6	0.953	1.00	47.46	50.00	1.033	1.088	0.95	42	TOLUENE-D8
46	27:21	6	1.169	1.00	48.84	50.00	0.858	0.858	0.98	46	BROMOFLUOROBENZENE

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

CKVB001AV 2

05/24/90 0601
OWAC -- KLK

Sample: BLANK SHO#VBLK03
Conditions: GC/MS OWAC
Method: 624 Matrix: SOIL BLANK Submitted by: AQUTEC
Weight: 5.120 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	0.576	A BB	1932.	2.581 PPB		6	METHYLENE CHLORIDE
7	NOT FOUND									7	ACETONE ϕ Cip
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~~	~~208~~	~~10:24~~	~~13~~	~~0.562~~	~~A BB~~	~~1497.~~	~~1.913 PPB~~ Cip		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~~	~~383~~	~~19:09~~	~~36~~	~~0.820~~	~~A BB~~	~~315.~~	~~0.383 PPB~~ Cip		37	4-METHYL-2-PENTANONE
~~38~~	~~43~~	~~416~~	~~20:48~~	~~36~~	~~0.891~~	~~A BB~~	~~1024.~~	~~1.217 PPB~~ Cip		38	2-HEXANONE
~~39~~	~~83~~	~~415~~	~~20:45~~	~~36~~	~~0.889~~	~~A BB~~	~~1237.~~	~~0.995 PPB~~ Cip		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~~	~~257.~~	~~0.265 PPB~~		43	TOLUENE
~~44~~	~~112~~	~~469~~	~~23:27~~	~~36~~	~~1.004~~	~~A BB~~	~~952.~~	~~0.643 PPB~~		44	CHLOROBENZENE
~~45~~	~~106~~	~~506~~	~~25:18~~	~~36~~	~~1.084~~	~~A BB~~	~~219.~~	~~0.341 PPB~~		45	ETHYLBENZENE
~~47~~	~~104~~	~~571~~	~~28:33~~	~~36~~	~~1.223~~	~~A BB~~	~~1151.~~	~~0.872 PPB~~		47	STYRENE
~~48~~	~~106~~	~~577~~	~~28:51~~	~~36~~	~~1.236~~	~~A BB~~	~~233.~~	~~0.272 PPB~~		48	M-XYLENE
49	NOT FOUND									49	O- & P-XYLENE
~~50~~	~~146~~	~~657~~	~~32:51~~	~~36~~	~~1.407~~	~~A BB~~	~~3848.~~	~~2.691 PPB~~ Cip		50	O-DICHLOROBENZENE
51	NOT FOUND									51	CYCLOPENTANE
52	~~106~~	~~577~~	~~28:51~~	~~36~~	~~1.236~~	~~A BB~~	~~233.~~	~~0.272 PPB~~		52	XYLENE (TOTAL)
53	NOT FOUND									53	2-PROPANOL

CKVB001AV 3

05/24/90 0601
OWAC -- KLK

Sample: BLANK SMOMVBLK03
Conditions: GC/MS OWAC
Method: 624 Matrix: SOIL BLANK Submitted by: AQUTEC
Weight: 5.120 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	0	0.569	1.01	2.58	50.00	0.095	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	6	0.565	1.00	1.91	50.00	0.016	0.424	0.04	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	6	0.823	1.00	0.30	50.00	0.004	0.670	0.01	37	4-METHYL-2-PENTANONE
38	20:51	3	0.891	1.00	1.22	50.00	0.013	0.543	0.02	38	2-HEXANONE
39	20:48	3	0.889	1.00	1.00	50.00	0.016	0.801	0.02	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	0.27	50.00	0.003	0.625	0.01	43	TOLUENE
44	23:33	6	1.006	1.00	0.64	50.00	0.012	0.955	0.01	44	CHLOROBENZENE
45	25:21	3	1.083	1.00	0.34	50.00	0.003	0.414	0.01	45	ETHYLBENZENE
47	28:36	3	1.222	1.00	0.87	50.00	0.015	0.851	0.02	47	STYRENE
48	28:51	0	1.233	1.00	0.27	50.00	0.003	0.553	0.01	48	M-XYLENE
49	29:33		1.263							49	O- & P-XYLENE
50	32:51	0	1.404	1.00	2.69	50.00	0.050	0.922	0.05	50	O-DICHLOROBENZENE
51	8:03		1.006							51	CYCLOPENTANE
52	28:51	0	1.233	1.00	0.27	50.00	0.003	0.553	0.01	52	XYLENE (TOTAL)
53	7:03		0.881							53	2-PROPANOL

CKVB001AV$_{17}$
05/24/90 0601
OWAC -- KLK

Sample: BLANK SMO#VBLK03 ▸
Conditions: GC/MS OWAC
Method: 8624 Matrix: SOIL BLANK Submitted by: AQUTEC
Weight: 5.0g %: 120%

Summary of Tentatively Identified Compounds

Rank	Scan	Dec. Time	En.RIC Height	Est. Amount	Ref	Name
ISTD	159	7.95	32416.	50.0	1	BROMOCHLOROMETHANE
ISTD	370	18.50	42112.	50.0	13	1,4-DIFLUOROBENZENE
ISTD	467	23.35	52481.	50.0	36	CHLOROBENZENE-D5
~~1~~	~~546~~	~~27.30~~	~~70143.~~	~~66.8~~	~~36~~	~~UNKNOWN~~ SS#46

ø TICs for reporting

cjp

PROCEDURE: TCA DIAGNOSTIC REPORT 3/24/90 6:41:28
DATA FILE: CKVB001AV
REFERENCE: JTAB11
NAME LIST: UM INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: UMRET1

STANDARDS PROC	USED	POSS	RMS	PLUS UNKNOWNS PROC	USED	POSS	RMS	LIST NAMES STANDARD/UNKNOWN
1	1	1	0	13	2	1	0	UMRET1/UMUNK1
2	2	1	0	14	4	1	142	UMRET2/UMUNK2
2	2	1	0	13	2	1	0	UMRET2/UMUNK3
2	1	1	0	9	4	1	70	UMRET3/UMUNK4
1	1	1	0	8	4	1	153	UMRET4/UMUNK5

52 COMPOUNDS PROCESSED, 10 FOUND

COMPOUND NO	LIB	ENTRY	SEARCH REF	PRED	SEL	DELTA	PEAKS	SAT FIT	PEAKS	CHRO M/Z	TOP	DELTA	PEAKS
1	UM	1	-158	159	159	.	1	981	.	128	158	-1	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	152	.	.	.	.	.	96	.	.	.
13	UM	53	-144	145	.	.	.	.	.	45	.	.	.
14	UM	13	-371	370	370	.	1	992	.	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	192	.	.	.	.	.	96	.	.	.
19	UM	17	-202	201	.	.	.	.	.	83	.	.	.
20	UM	18	-219	218	.	.	.	.	.	62	.	.	.
21	UM	19	-217	216	216	.	1	995	.	65	216	.	1
22	UM	20	-224	223	.	.	.	.	.	72	.	.	.
23	UM	21	-210	209	208	-1	1	992	.	101	208	.	1
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	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	383	.	1
40	UM	38	-416	415	.	.	.	.	.	43	416	.	1
41	UM	39	-415	414	415	1	1	930	.	83	415	.	1
42	UM	40	-421	420	.	.	.	.	.	164	.	.	.
43	UM	41	-438	438	.	.	.	.	.	56	.	.	.
44	UM	42	-444	444	444	.	1	992	.	98	444	.	1
45	UM	43	-448	448	.	.	.	.	.	92	448	.	1
46	UM	44	-469	470	.	.	.	.	.	112	469	.	1
47	UM	45	-506	507	.	.	.	.	.	106	506	.	1
48	UM	46	-545	547	545	-2	1	994	.	95	545	.	1
49	UM	47	-569	571	571	.	1	893	.	104	571	.	1
50	UM	48	-575	577	.	.	.	.	.	106	577	.	1
51	UM	49	-589	591	.	.	.	.	.	106	.	.	.
52	UM	50	-653	656	657	1	1	905	.	146	657	.	1

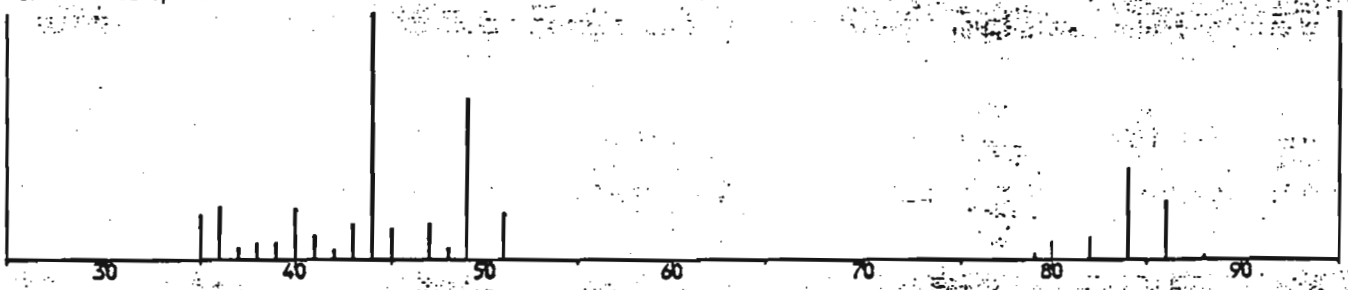
CKVB001AV 6

Sample: BLANK SHO#VBLK03
Conditions: GC/MS OWAC
Method: 624 Matrix: SOIL BLANK Submitted by: AQUTEC
Weights: 5.120 g

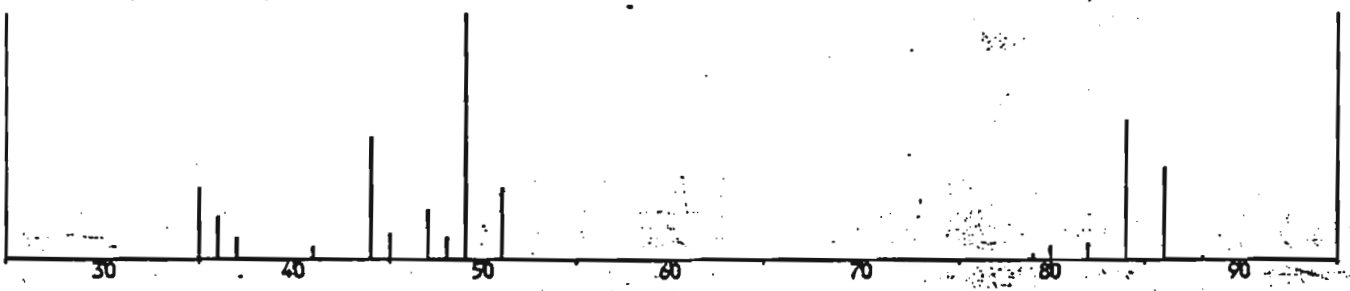
05/24/90 0601
OWAC -- KLK

LIBRARYUM#6 METHYLENE CHLORIDE

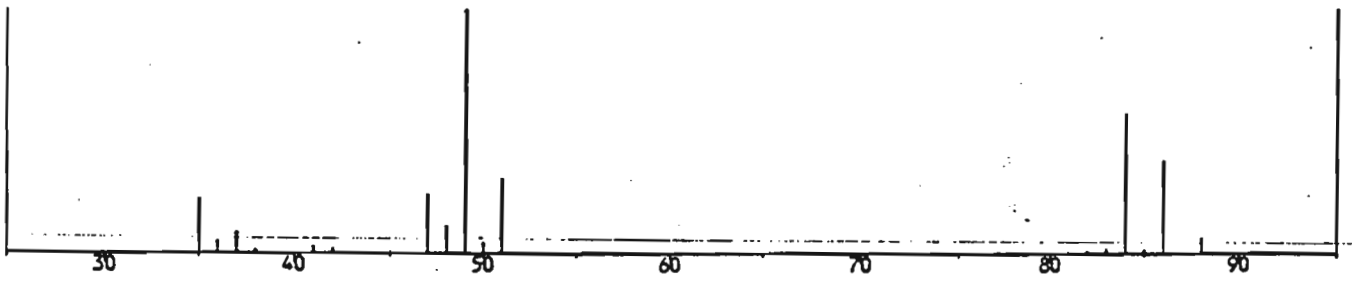
Unenhanced spectrum -- Scan # 91 Base m/z: 44 --- RIC: 6408. Max intensity: 1568



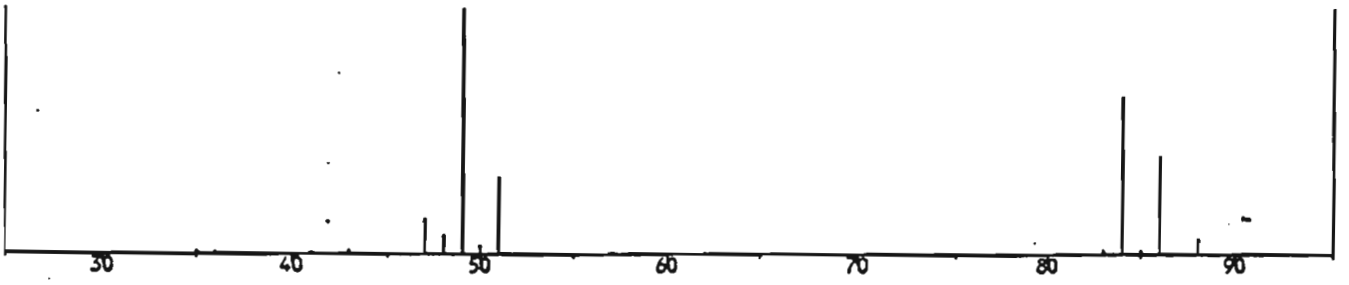
Enhanced (S 15B 2N 0T) -- Scan # 91 Base m/z: 49 --- RIC: 3820. Max intensity: 983



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



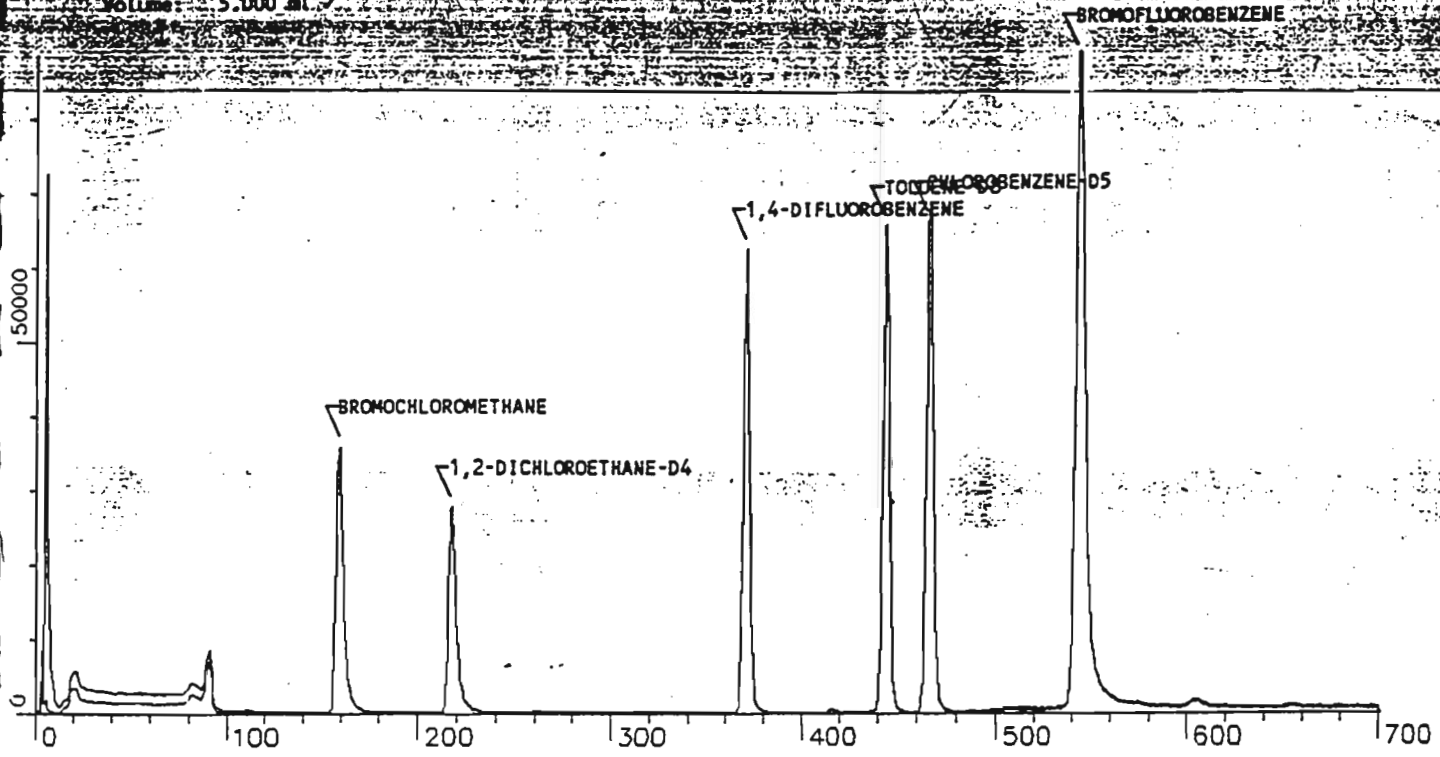
LIBRARYUM#6 CAS: 75-09-2 METHANE, DICHLORO- (CH2Cl2)



CKVB001BV 1

05/24/90 1956
OWAC -- CMS

Sample: BLANK SMO#VBLK05
Conditions: GC/MS OWAC
Method: 624 Matrix: WATER BLANK Submitted by: AQUTEC
Volume: 5.000 ml



No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Rec	No	Name
1	128	159	7:57	1	1.000	A BB	20296.	50.000	PPB		1	BROMOCHLOROMETHANE
13	114	371	18:33	13	1.000	A BB	92156.	50.000	PPB		13	1,4-DIFLUOROBENZENE
36	117	466	23:18	36	1.000	A BB	74879.	50.000	PPB		36	CHLOROBENZENE-D5
19	65	217	10:51	1	1.365	A BB	44138.	50.935	PPB	101.9	19	1,2-DICHLOROETHANE-D4
42	98	444	22:12	36	0.953	A BB	85242.	53.321	PPB	106.6	42	TOLUENE-D8
46	95	544	27:12	36	1.167	A BB	66699.	52.534	PPB	105.1	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	0	1.356	1.01	50.93	50.00	2.175	2.135	1.02	19	1,2-DICHLOROETHANE-D4
42	22:15	3	0.953	1.00	53.32	50.00	1.138	1.067	1.07	42	TOLUENE-D8
46	27:15	3	1.167	1.00	52.53	50.00	0.891	0.848	1.05	46	BROMOFLUOROBENZENE

CKV050BHV (05/24/90 18:52) RFs loaded on OWAC 5/24/90 19:49:57

CKVB001BV 2

05/24/90 1956
OWAC -- CMS

Sample: BLANK SHO#VBLK05
Conditions: GC/MS OWAC
Method: 624 Matrix: WATER BLANK Submitted by: AQUTEC
Volume: 5.000ml

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
2	50	19	0:57	1	0.119	A BB	109.	0.207 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	0.566	A BB	3427.	4.540 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	43	385	19:15	36	0.826	A BB	244.	0.259 PPB		37	4-METHYL-2-PENTANONE
38	43	416	20:48	36	0.893	A BB	727.	0.906 PPB	Cup	38	2-HEXANONE
39	83	415	20:45	36	0.891	A BB	371.	0.327 PPB		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	275.	0.286 PPB		43	TOLUENE
44	112	469	23:27	36	1.006	A BB	210.	0.145 PPB		44	CHLOROBENZENE
45	NOT FOUND									45	ETHYLBENZENE
47	104	569	28:27	36	1.221	A BB	166.	0.133 PPB		47	STYRENE
48	NOT FOUND									48	M-XYLENE
49	NOT FOUND									49	O- & P-XYLENE
50	146	654	32:42	36	1.403	A BB	1013.	0.721 PPB		50	O-DICHLOROBENZENE
51	NOT FOUND									51	CYCLOPENTANE
52	NOT FOUND									52	XYLENE (TOTAL)
53	NOT FOUND									53	2-PROPANOL

CKVB001BV 3

05/24/90 1956
OWAC -- CMS

Sample: BLANK SMO#VBLK05
Conditions: GC/MS OWAC
Method: 624 Matrix: WATER BLANK Submitted by: AQUTEC
Volume: 5.000 ml

No	Ret(L)	Diff	RRT(L)	Ratio	Amt	Amt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	1:03	6	0.131	0.91	0.21	55.00	0.005	1.299	0.00	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	0.98	4.54	50.00	0.169	1.860	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	6:24		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	3	0.822	1.00	0.26	50.00	0.003	0.628	0.01	37	4-METHYL-2-PENTANONE
38	20:48	0	0.891	1.00	0.91	50.00	0.010	0.536	0.02	38	2-HEXANONE
39	20:45	0	0.889	1.00	0.33	50.00	0.005	0.756	0.01	39	1,1,2,2-TETRACHLOROETHANE
40	21:00		0.899							40	TETRACHLOROETHENE
41	21:54		0.938							41	BUTYL ACETATE
43	22:27	3	0.961	1.00	0.29	50.00	0.004	0.643	0.01	43	TOLUENE
44	23:30	3	1.006	1.00	0.15	50.00	0.003	0.965	0.00	44	CHLOROBENZENE
45	25:18		1.084							45	ETHYLBENZENE
47	28:30	3	1.221	1.00	0.13	50.00	0.002	0.831	0.00	47	STYRENE
48	28:48		1.233							48	M-XYLENE
49	29:30		1.263							49	O- & P-XYLENE
50	32:45	3	1.403	1.00	0.72	50.00	0.014	0.938	0.01	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

CKVB001BV16

05/24/90 1956
OWAC -- CMS

Sample: BLANK SMO#VBLKQ5
Conditions: GC/MS OWAC
Method: 624 Matrix: WATER BLANK Submitted by: AQUTEC
Volume: 5.000 ml

Summary of Tentatively Identified Compounds

Rank	Scan	Dec. Time	En.RIC Height	Est. Amount	Ref	Name
~~3~~	~~20~~	~~1.00~~	~~3263.~~	~~5.4~~	~~1~~	~~UNKNOWN~~ CO_2 related
~~2~~	~~91~~	~~4.55~~	~~5815.~~	~~9.7~~	~~1~~	~~UNKNOWN~~ TCL #6
ISTD	159	7.95	30048.	50.0	1	BROMOCHLOROMETHANE
ISTD	371	18.55	41920.	50.0	13	1,4-DIFLUOROBENZENE
~~1~~	~~443~~	~~22.15~~	~~49791.~~	~~49.2~~	~~36~~	~~UNKNOWN~~ SS #42
ISTD	467	23.35	50643.	50.0	36	CHLOROBENZENE-D5

Ø TIC's for reporting
Cp

PROCEDURE: TCA DIAGNOSTIC REPORT 5/24/90 20:33:10
DATA FILE: CKVB001BV
REFERENCE: UTAB11
NAME LIST: UM INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: UMRET

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	3	1	57	UMRET2/UMUNK2
2	2	1	0	13	2	1	0	UMRET2/UMUNK3
2	3	1	0	9	4	1	61	UMRET3/UMUNK4
1	1	1	0	8	4	2	59	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	976	.	128	159	.	1
2	UM	2	-18	19	.	.	.	.	.	50	19	.	1
3	UM	3	-30	31	.	.	.	.	.	94	.	.	.
4	UM	4	-40	41	.	.	.	.	.	62	.	.	.
5	UM	5	-55	56	.	.	.	.	.	64	.	.	.
6	UM	6	-89	90	90	.	1	992	.	84	90	.	1
7	UM	7	-113	114	.	.	.	.	.	43	.	.	.
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	994	.	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	995	.	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	466	.	1
39	UM	37	-384	384	.	.	.	.	.	43	385	.	1
40	UM	38	-416	416	.	.	.	.	.	43	416	.	1
41	UM	39	-415	415	416	1	1	851	.	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	.	.	.	.	.	92	448	.	1
46	UM	44	-469	469	.	.	.	.	.	112	469	.	1
47	UM	45	-506	505	.	.	.	.	.	106	.	.	.
48	UM	46	-545	544	544	.	1	993	.	95	544	.	1
49	UM	47	-569	568	569	1	2	397	.	104	569	.	1
50	UM	48	-575	574	574	.	1	981	.	106	.	.	.
51	UM	49	-589	588	.	.	.	.	.	106	.	.	.
52	UM	50	-653	652	.	.	.	.	.	146	654	.	1

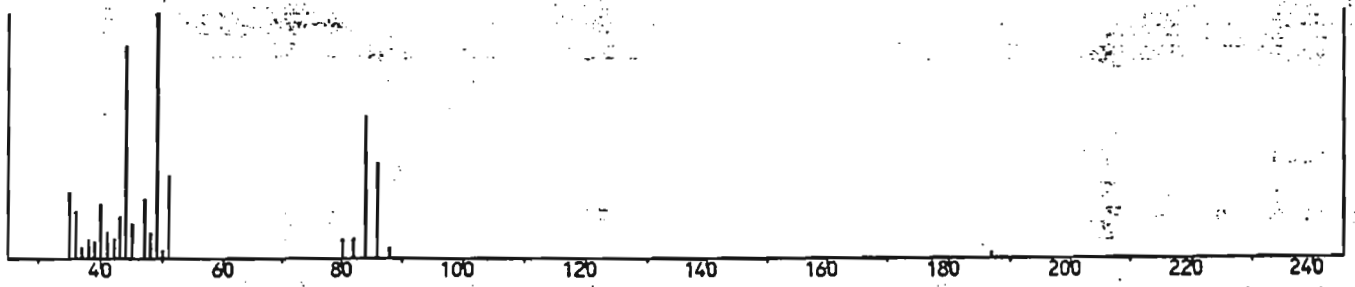
CKVB001BV 6

05/24/90 1956
OWAC -- CMS

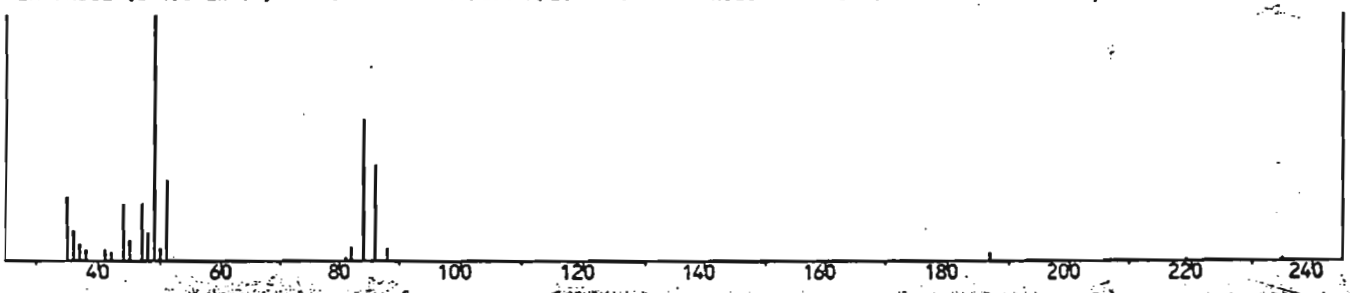
Sample: BLANK SHO#VBLK05
Conditions: GC/MS OWAC
Method: 624 Matrix: WATER BLANK Submitted by: AQUTEC
Volume: 5.000 ml

LIBRARYUM#6 METHYLENE CHLORIDE

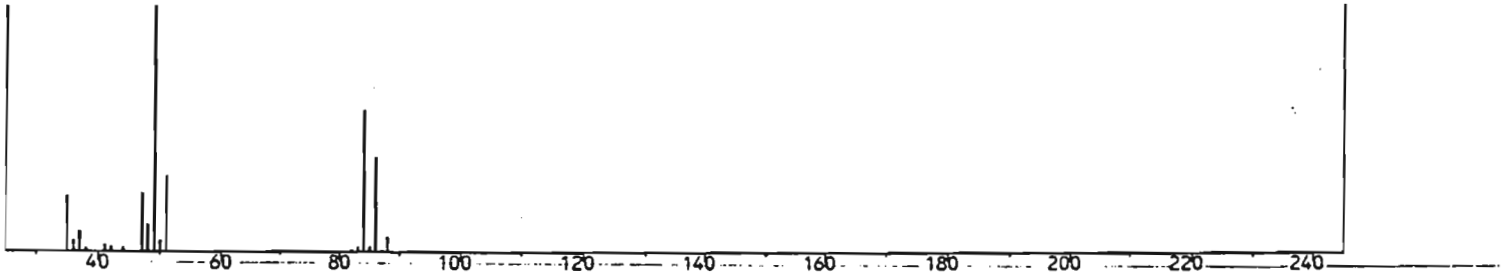
Unenhanced spectrum -- Scan # 90 Base m/z: 49 --- RIC: 8152. Max intensity: 1576



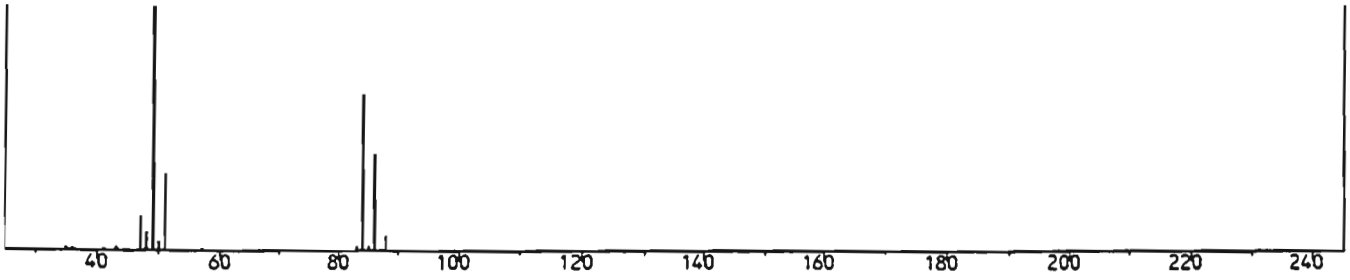
Enhanced (S 15B 2N 0T) -- Scan # 90 Base m/z: 49 --- RIC: 5848. Max intensity: 1554



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



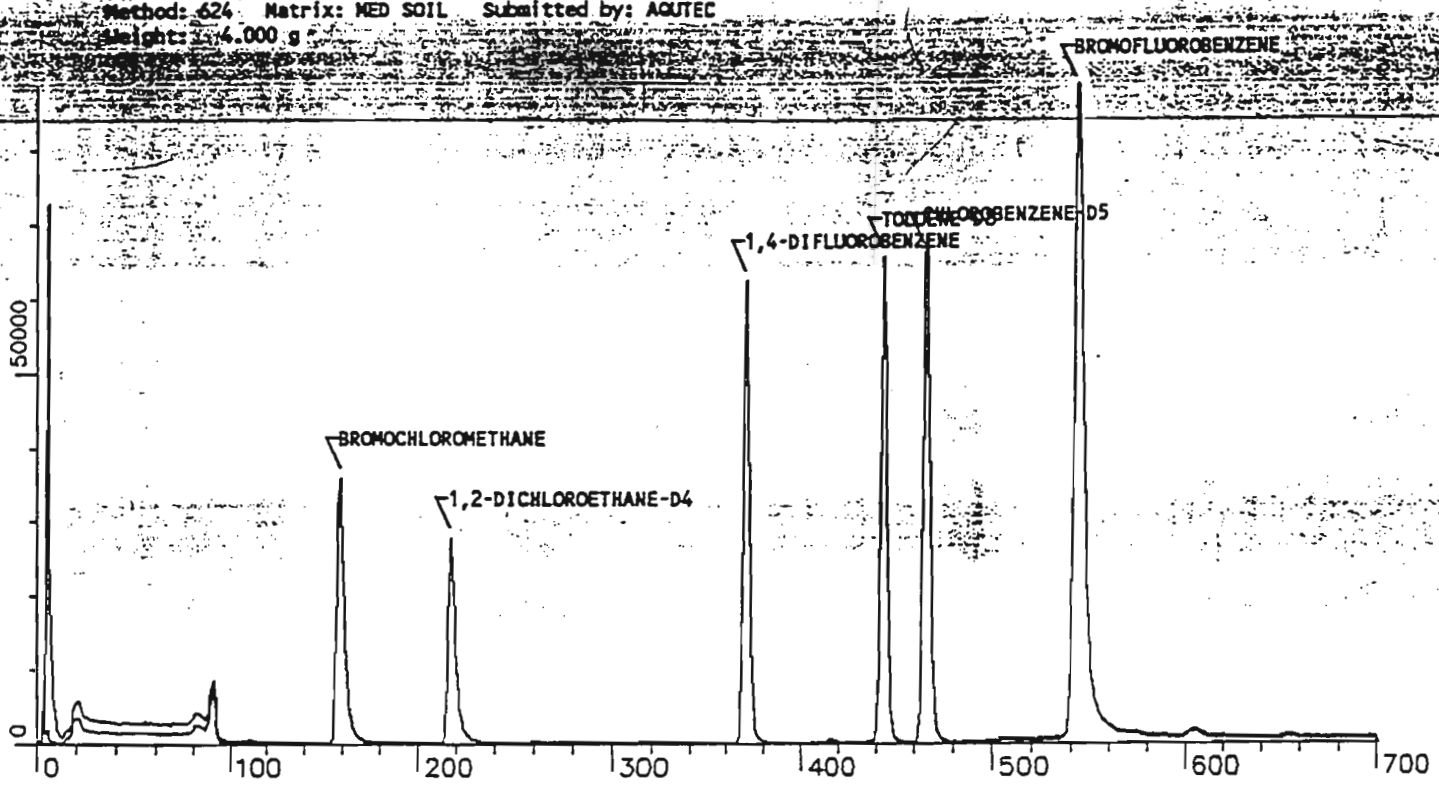
LIBRARYUM#6 CAS: 75-09-2 METHANE, DICHLORO- (CH2Cl2)



CKVB001BV 1

05/24/90 1956
OWAC -- CMS

Sample: BLANK SMO#VBLK05
Conditions: GC/MS OWAC
Method: 624 Matrix: MED SOIL Submitted by: AQUTEC
Weight: 4.000 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	20296.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	371	18:33	13	1.000	A BB	92156.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	466	23:18	36	1.000	A BB	74879	50.000 PPB		36	CHLOROBENZENE-D5
19	65	217	10:51	1	1.365	A BB	44138.	50.935 PPB	101.9	19	1,2-DICHLOROETHANE-D4
42	98	444	22:12	36	0.953	A BB	85242.	53.321 PPB	106.6	42	TOLUENE-D8
46	95	544	27:12	36	1.167	A BB	66699.	52.534 PPB	105.1	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	0	1.356	1.01	50.93	50.00	2.175	2.135	1.02	19	1,2-DICHLOROETHANE-D4
42	22:15	3	0.953	1.00	53.32	50.00	1.138	1.067	1.07	42	TOLUENE-D8
46	27:15	3	1.167	1.00	52.53	50.00	0.891	0.848	1.05	46	BROMOFLUOROBENZENE

CKV050BHV (05/24/90 18:52) RFs loaded on OWAC 5/24/90 19:49:57

CKVB001BV 2

05/24/90 1956
OWAC -- CMS

Sample: BLANK SMO#VBLK05
Conditions: GC/MS OWAC
Method: 624 Matrix: MED SOIL Submitted by: AQUTEC
Weight: 4.000 g

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
2	50	19	0.57	1	0.119	A BB	109.	0.207 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	0.566	A BB	3427.	4.540 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	43	385	19:15	36	0.826	A BB	244.	0.259 PPB		37	4-METHYL-2-PENTANONE
38	43	416	20:48	36	0.893	A BB	727.	0.906 PPB		38	2-HEXANONE
39	83	415	20:45	36	0.891	A BB	371.	0.327 PPB		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	275.	0.286 PPB		43	TOLUENE
44	112	469	23:27	36	1.006	A BB	210.	0.145 PPB		44	CHLOROBENZENE
45	NOT FOUND									45	ETHYLBENZENE
47	104	569	28:27	36	1.221	A BB	166.	0.133 PPB		47	STYRENE
48	NOT FOUND									48	M-XYLENE
49	NOT FOUND									49	O- & P-XYLENE
50	146	654	32:42	36	1.403	A BB	1013.	0.721 PPB		50	O-DICHLOROBENZENE
51	NOT FOUND									51	CYCLOPENTANE
52	NOT FOUND									52	XYLENE (TOTAL)
53	NOT FOUND									53	2-PROPANOL

CKVB001BV 3

05/24/90 1956
OMAC -- CMS

Sample: BLANK SMOMVBLK05
Conditions: GC/MS OMAC
Method: 624 Matrix: MED SOIL Submitted by: AQUTEC
Weight: 4.000 g

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	1:03	6	0.131	0.91	0.21	55.00	0.005	1.299	0.00	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	0.98	4.54	50.00	0.169	1.860	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	6:24		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	3	0.822	1.00	0.26	50.00	0.003	0.628	0.01	37	4-METHYL-2-PENTANONE
38	20:48	0	0.891	1.00	0.91	50.00	0.010	0.536	0.02	38	2-HEXANONE
39	20:45	0	0.889	1.00	0.33	50.00	0.005	0.756	0.01	39	1,1,2,2-TETRACHLOROETHANE
40	21:00		0.899							40	TETRACHLOROETHENE
41	21:54		0.938							41	BUTYL ACETATE
43	22:27	3	0.961	1.00	0.29	50.00	0.004	0.643	0.01	43	TOLUENE
44	23:30	3	1.006	1.00	0.15	50.00	0.003	0.965	0.00	44	CHLOROBENZENE
45	25:18		1.084							45	ETHYLBENZENE
47	28:30	3	1.221	1.00	0.13	50.00	0.002	0.831	0.00	47	STYRENE
48	28:48		1.233							48	M-XYLENE
49	29:30		1.263							49	O- & P-XYLENE
50	32:45	3	1.403	1.00	0.72	50.00	0.014	0.938	0.01	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

CKVB001BV16

05/24/90 1956
OMAC -- CMS

Sample: BLANK SMO#VBLK05
Conditions: GC/MS OMAC
Method: 626 Matrix: MED SOIL Submitted by: AQUTEC
Weight: 5.000 g

Summary of Tentatively Identified Compounds

Rank	Scan	Dec. Time	En.RIC Height	Est. Amount	Ref	Name
~~5~~	~~28~~	~~1.00~~	~~3263.~~	~~5.4~~	~~1~~	~~UNKNOWN~~ CO_2 related
~~2~~	~~91~~	~~4.55~~	~~5815.~~	~~9.7~~	~~1~~	~~UNKNOWN~~ TCL #6
ISTD	159	7.95	30048.	50.0	1	BROMOCHLOROMETHANE
ISTD	371	18.55	41920.	50.0	13	1,4-DIFLUOROBENZENE
~~1~~	~~443~~	~~22.15~~	~~49791.~~	~~49.2~~	~~36~~	~~UNKNOWN~~ SB #42
ISTD	467	23.35	50643.	50.0	36	CHLOROBENZENE-D5

Ø TICs for reporting
CIP

PROCEDURE: TCA DIAGNOSTIC REPORT 5/24/90 20:33:10
DATA FILE: CKVB001BV
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	13	2	1	0	UMRET1/UMUNK1
2	2	1	0	14	3	1	57	UMRET2/UMUNK2
2	2	1	0	13	2	1	0	UMRET2/UMUNK3
2	1	1	0	9	4	1	61	UMRET3/UMUNK4
1	1	1	0	8	4	2	59	UMRET4/UMUNK5

52 COMPOUNDS PROCESSED, 9 FOUND

COMPOUND			SEARCH					SAT		CHRO			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	UM	1	-158	159	159	.	1	976	.	128	159	.	1
2	UM	2	-18	19	.	.	.	.	.	50	19	.	1
3	UM	3	-30	31	.	.	.	.	.	94	.	.	.
4	UM	4	-40	41	.	.	.	.	.	62	.	.	.
5	UM	5	-55	56	.	.	.	.	.	64	.	.	.
6	UM	6	-89	90	90	.	1	992	.	84	90	.	1
7	UM	7	-113	114	.	.	.	.	.	43	.	.	.
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	994	.	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	995	.	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	466	.	1
39	UM	37	-384	384	.	.	.	.	.	43	385	.	1
40	UM	38	-416	416	.	.	.	.	.	43	416	.	1
41	UM	39	-415	415	416	1	1	851	.	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

48	UM	46	-545	544	544	.	1	993	.	95	544	.	1
49	UM	47	-569	568	569	1	2	397	.	104	569	.	1
50	UM	48	-575	574	574	.	1	981	.	106	.	.	.
51	UM	49	-589	588	.	.	.	.	.	106	.	.	.
52	UM	50	-653	652	.	.	.	.	.	146	654	.	1

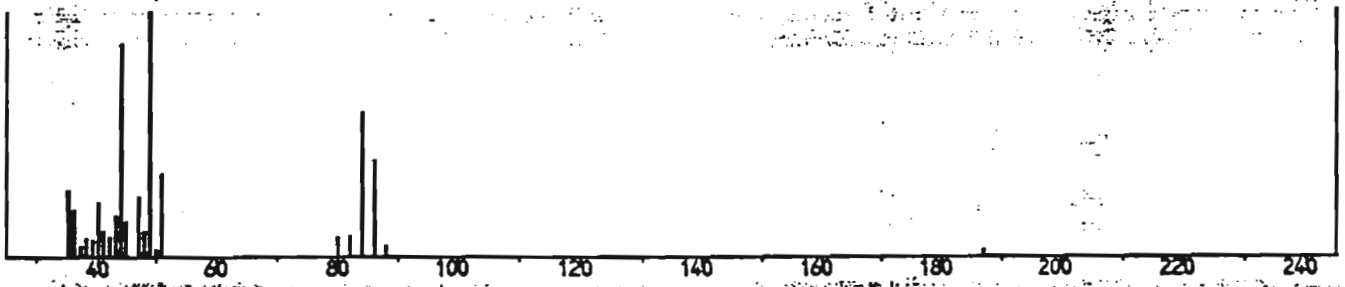
CKVB001BV 6

05/24/90 1956
OWAC -- CMS

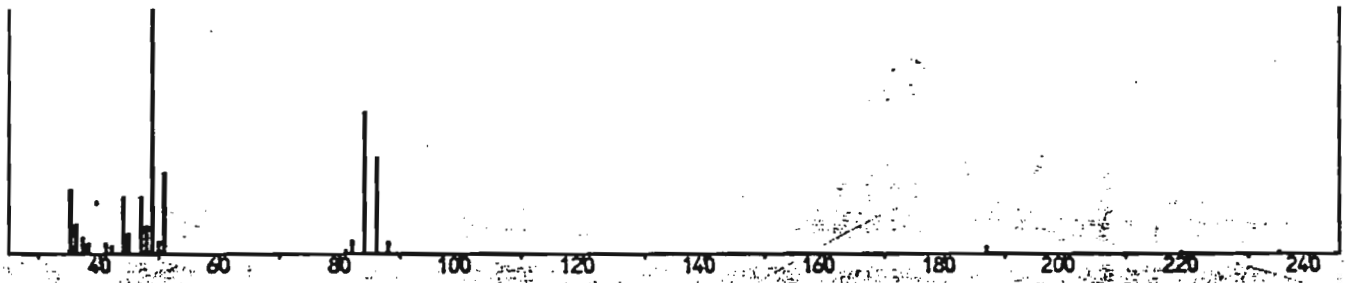
Sample: BLANK SMOBVBLK05
Conditions: GC/MS OWAC +
Method: 624 Matrix: MED SOIL Submitted by: AQUTEC
Weight: 4.000 g

LIBRARYUM#6 METHYLENE CHLORIDE

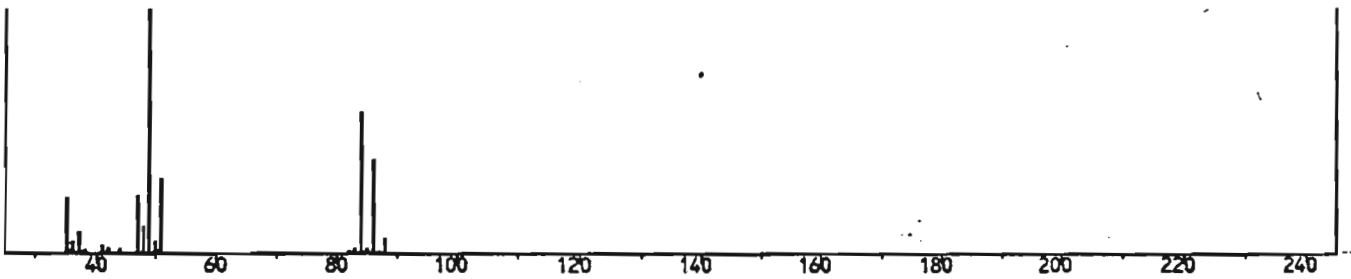
Unenhanced spectrum -- Scan # 90 Base m/z: 49 --- RIC: 8152. Max intensity: 1576



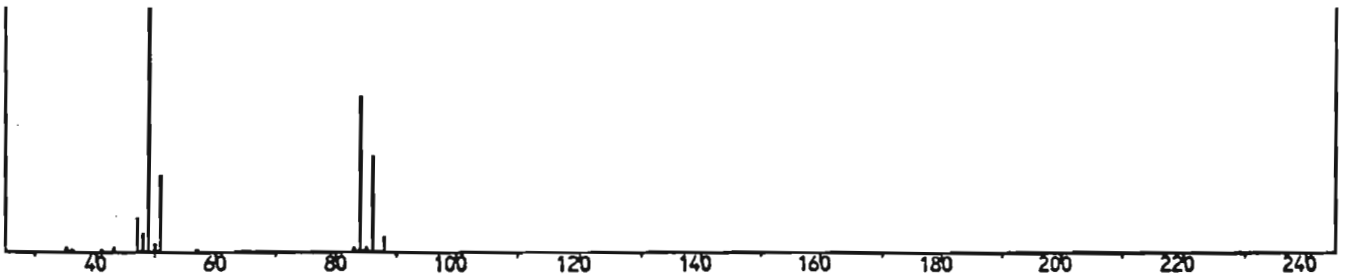
Enhanced (S 15B 2N 0T) -- Scan # 90 Base m/z: 49 --- RIC: 5848. Max intensity: 1554



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



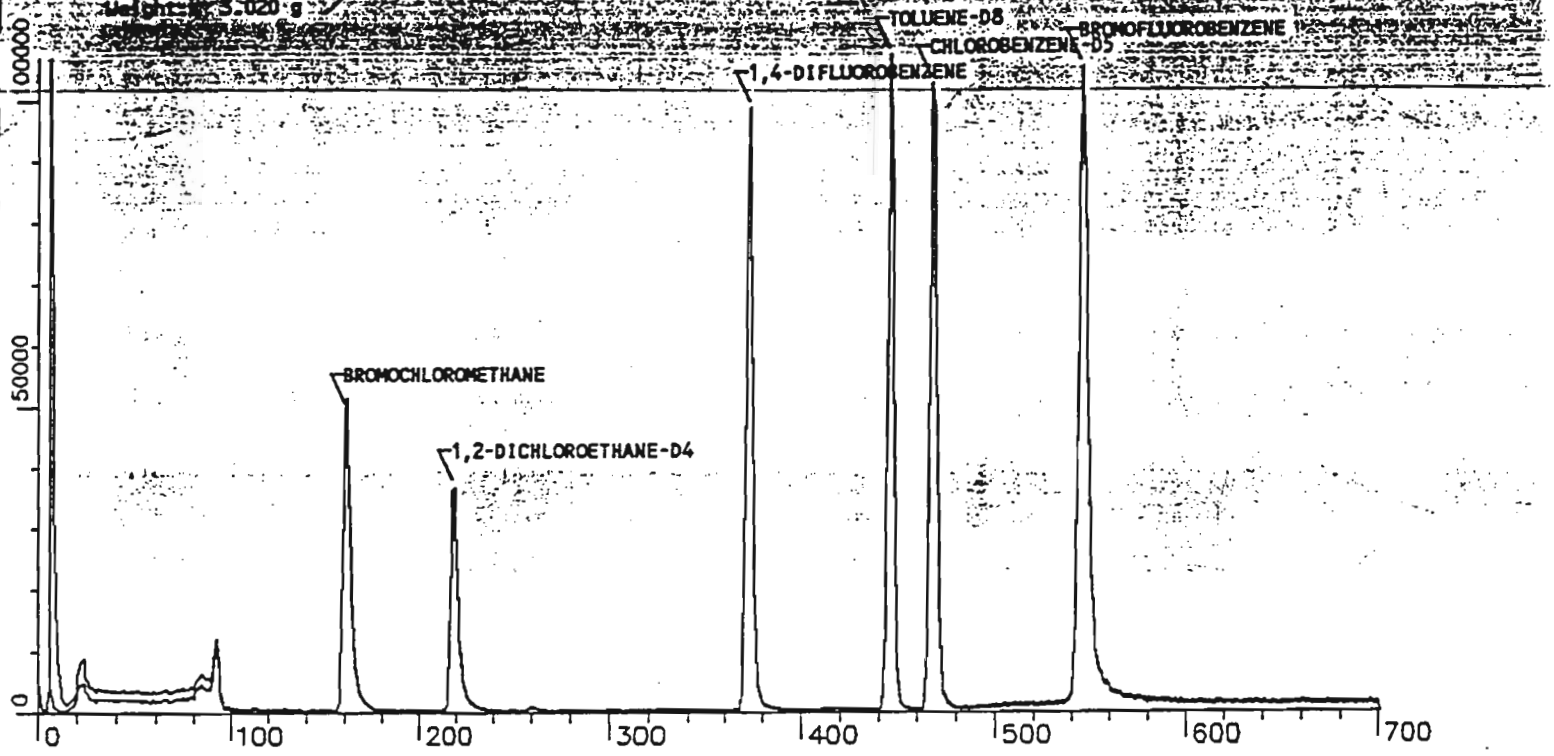
LIBRARYUM#6 CAS: 75-09-2 METHANE, DICHLORO- (CH2Cl2)



CKWB002BV 1

05/30/90 1053
OWAC -- CMP

Sample: BLANK SMOMVBLK09 + 3.02GRAMS ARTIFICIAL SOIL
Conditions: GC/MS OWAC
Method: CLP.VOL Matrix: SOIL BLANK Submitted by: AQUTEC
Weight: 5.020 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	34869.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	373	18:39	13	1.000	A BB	165484.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	468	23:24	36	1.000	A BB	125831.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	218	10:54	1	1.362	A BB	61648.	48.859 PPB	97.7	19	1,2-DICHLOROETHANE-D4
42	98	446	22:18	36	0.953	A BB	150251.	48.760 PPB	97.5	42	TOLUENE-D8
46	95	546	27:18	36	1.167	A BB	101267.	47.350 PPB	94.7	46	BROMOFLUOROBENZENE

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
1	7:57	-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	0	1.000	1.00	50.00	50.00	1.000	1.000	1.00	36	CHLOROBENZENE-D5
19	10:51	-3	1.365	1.00	48.86	50.00	1.768	1.809	0.98	19	1,2-DICHLOROETHANE-D4
42	22:15	-3	0.951	1.00	48.76	50.00	1.194	1.224	0.98	42	TOLUENE-D8
46	27:18	0	1.167	1.00	47.35	50.00	0.805	0.850	0.95	46	BROMOFLUOROBENZENE

CKW050BHV (05/30/90 8:41) RFs loaded on OWAC 5/30/90 9:43:24

Sample: BLANK SMOMVBLK09 + 3.02GRAMS ARTIFICIAL SOIL
Conditions: GC/MS OWAC
Method: CLP_VOL Matrix: SOIL BLANK Submitted by: AQUTEC
Weight: 3.020 g

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
2	50	21	1.03	1	0.131	A BB	193.	0.211 PPB		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	4808.	3.527 PPB		6	METHYLENE CHLORIDE
7	43	112	5:36	1	0.700	A BB	923.	4.748 PPB		7	ACETONE
10	76	128	6.24	1	0.800	A BB	563.	0.093 PPB		10	CARBON DISULFIDE
12	NOT FOUND									12	1,1-DICHLOROETHENE
14	NOT FOUND									14	1,1-DICHLOROETHANE
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
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
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	388	19.24	36	0.829	A BB	171.	0.120 PPB		37	4-METHYL-2-PENTANONE
38	NOT FOUND									38	2-HEXANONE
39	83	419	20.57	36	0.895	A BB	214.	0.107 PPB		39	1,1,2,2-TETRACHLOROETHANE
40	NOT FOUND									40	TETRACHLOROETHENE
43	NOT FOUND									43	TOLUENE
44	112	471	23.33	36	1.006	A BB	99.	0.039 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
52	NOT FOUND									52	XYLENE (TOTAL)

CKWB002BV 3

Sample: BLANK SMO#VBLK09 + 3.02GRAMS ARTIFICIAL SOIL — 05/30/90 1053
Conditions: GC/MS OWAC — OWAC -- CMP
Method: CLP_VOL Matrix: SOIL BLANK Submitted by: AQUTEC
Weight: 5.020 g

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	0:54	-9	0.113	1.16	0.21	55.00	0.005	1.311	0.00	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	-3	0.572	1.00	3.53	50.00	0.138	1.955	0.07	6	METHYLENE CHLORIDE
7	5:36	0	0.704	0.99	4.75	50.00	0.026	0.279	0.09	7	ACETONE
10	6:12	-12	0.780	1.03	0.09	50.00	0.016	0.646	0.00	10	CARBON DISULFIDE
12	7:33		0.950							12	1,1-DICHLOROETHENE
14	8:48		1.107							14	1,1-DICHLOROETHANE
16	9:42		1.220							16	1,2-DICHLOROETHENE (TOTAL)
17	10:06		1.270							17	CHLOROFORM
18	10:57		1.377							18	1,2-DICHLOROETHANE
20	11:15		1.415							20	2-BUTANONE
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	13:06		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
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	-12	0.821	1.01	0.12	50.00	0.001	0.568	0.00	37	4-METHYL-2-PENTANONE
38	20:48		0.889							38	2-HEXANONE
39	20:45	-12	0.887	1.01	0.11	50.00	0.002	0.795	0.00	39	1,1,2,2-TETRACHLOROETHANE
40	21:03		0.900							40	TETRACHLOROETHENE
43	22:27		0.959							43	TOLUENE
44	23:30	-3	1.004	1.00	0.04	50.00	0.001	1.015	0.00	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
52	28:51		1.233							52	XYLENE (TOTAL)

CKWB002BV$_{17}$

Sample: BLANK SMO#VBLK09 + 3.02GRAMS ARTIFICIAL SOIL
Conditions: GC/MS OWAC
Method: CLP.VOL Matrix: SOIL BLANK Submitted by: AQUTEC
Weight: 3.020 g

05/30/90 1053
OWAC -- CMP

Summary of Tentatively Identified Compounds

Rank	Scan	Dec. Time	En.RIC Height	Est. Amount	Ref	Name
~~1~~	~~7~~	~~0.35~~	~~91007.~~	~~104.3~~	~~1~~	~~UNKNOWN~~ CO_2
~~4~~	~~24~~	~~1.20~~	~~4791.~~	~~5.5~~	~~1~~	~~UNKNOWN~~ CO_2 related
~~3~~	~~93~~	~~4.65~~	~~7775.~~	~~8.9~~	~~1~~	~~UNKNOWN~~ TCL #6
ISTD	161	8.05	43645.	50.0	1	BROMOCHLOROMETHANE
~~2~~	~~219~~	~~10.95~~	~~34431.~~	~~39.4~~	~~1~~	~~UNKNOWN~~ SS #19
ISTD	373	18.65	70016.	50.0	13	1,4-DIFLUOROBENZENE
ISTD	468	23.40	80325.	50.0	36	CHLOROBENZENE-D5

0 TICs for reporting
cp

PROCEDURE: TCA DIAGNOSTIC REPORT 5/30/90 11:27:48

DATA FILE: CKWB002BV

REFERENCE: JTAB11

NAME LIST: UM INITIALIZATION OPTION: 2 PROCESSING OPTIONS: 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	306	UMRET1/UMUNK1
2	2	1	0	14	3	1	57	UMRET2/UMUNK2
2	2	1	0	13	2	1	0	UMRET2/UMUNK3
2	1	1	0	9	4	1	115	UMRET3/UMUNK4
1	1	1	0	8	3	2	63	UMRET4/UMUNK5

52 COMPOUNDS PROCESSED, 10 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	161	161	.	1	985	.	128	160	-1	1
2	UM	2	-18	21	.	.	.	.	.	50	21	.	1
3	UM	3	-30	33	.	.	.	.	.	94	.	.	.
4	UM	4	-40	43	.	.	.	.	.	62	.	.	.
5	UM	5	-55	58	.	.	.	.	.	64	.	.	.
6	UM	6	-89	92	93	1	1	986	.	84	92	-1	1
7	UM	7	-113	116	113	-3	1	996	.	43	112	-1	1
8	UM	8	-112	115	.	.	.	.	.	56	.	.	.
9	UM	9	-125	128	.	.	.	.	.	53	.	.	.
10	UM	10	-122	125	128	3	1	1000	.	76	128	.	1
11	UM	11	-134	137	.	.	.	.	.	101	.	.	.
12	UM	12	-151	154	.	.	.	.	.	96	.	.	.
13	UM	53	-144	147	.	.	.	.	.	45	.	.	.
14	UM	13	-371	373	373	.	1	996	.	114	373	.	1
15	UM	51	-160	163	.	.	.	.	.	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	993	.	65	218	-1	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	468	.	1
39	UM	37	-384	387	.	.	.	.	.	43	388	.	1
40	UM	38	-416	419	.	.	.	.	.	43	.	.	.
41	UM	39	-415	418	419	1	1	845	.	83	419	.	1
42	UM	40	-421	424	.	.	.	.	.	164	.	.	.
43	UM	41	-438	441	.	.	.	.	.	56	.	.	.
44	UM	42	-444	447	446	-1	1	987	.	98	446	.	1
45	UM	43	-448	451	.	.	.	.	.	92	.	.	.
46	UM	44	-469	470	.	.	.	.	.	112	471	.	1
47	UM	45	-506	507	.	.	.	.	.	106	.	.	.
48	UM	46	-545	546	546	.	1	995	.	95	546	.	1
49	UM	47	-569	569	569	.	2	333	.	104	.	.	.
50	UM	48	-575	575	.	.	.	.	.	106	.	.	.
51	UM	49	-589	589	.	.	.	.	.	106	.	.	.
52	UM	50	-653	653	.	.	.	.	.	146	.	.	.

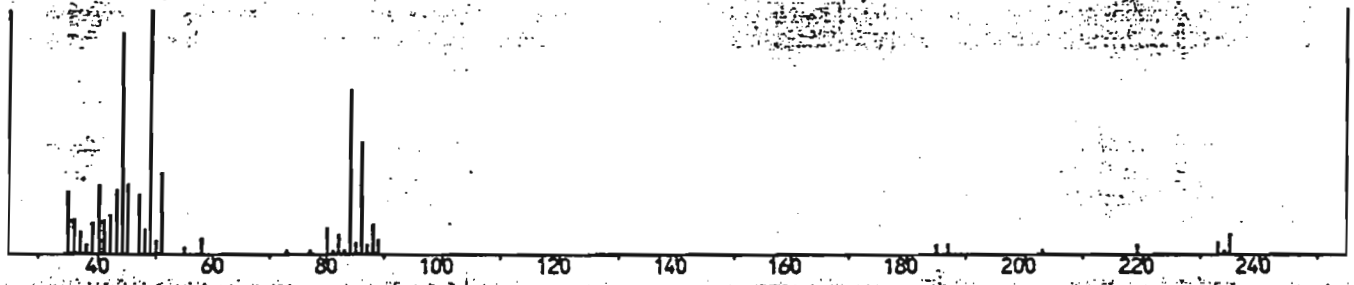
CKWB002BV 6

05/30/90 1053
OWAC -- CMP

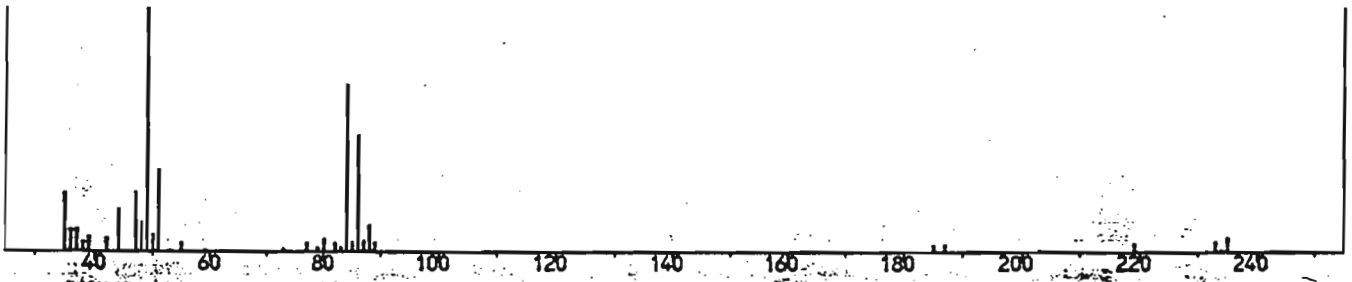
Sample: BLANK SMOMVBLK09 + 3.02GRAMS ARTIFICIAL SOIL
Conditions: GC/MS OWAC
Method: CLP.VOL Matrix: SOIL BLANK Submitted by: AQUTEC
Weight: 3.020 g

LIBRARYUM#6 METHYLENE CHLORIDE

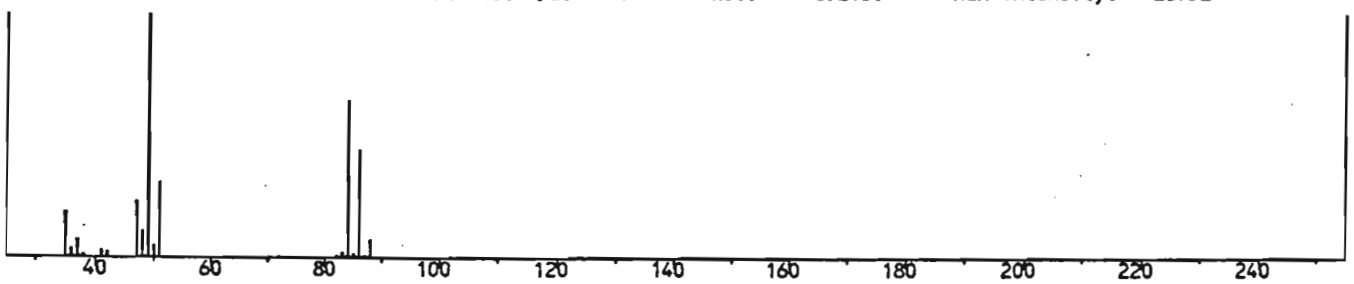
Unenhanced spectrum -- Scan # 92 Base m/z: 49 --- RIC: 12080. Max intensity: 1864



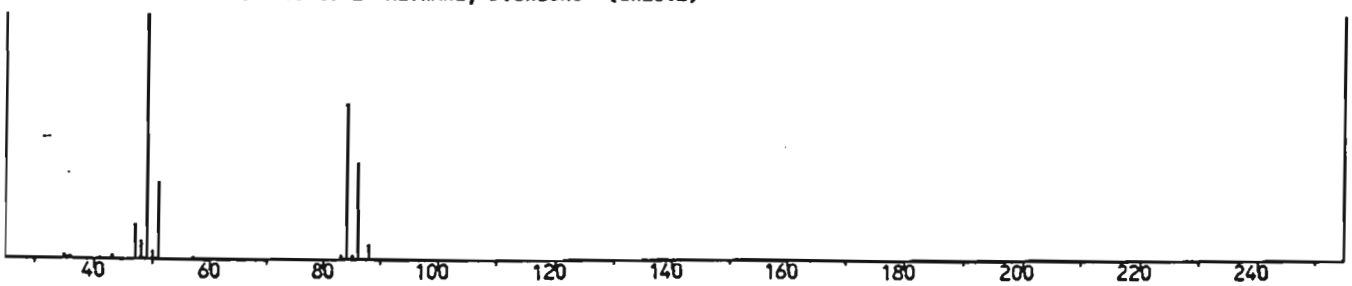
Enhanced (S 15B 2N 0T) -- Scan # 92 Base m/z: 49 --- RIC: 7728. Max intensity: 1762



Enhanced CKW050BHV -- Scan # 91 Base m/z: 49 --- RIC: 89216. Max intensity: 26752



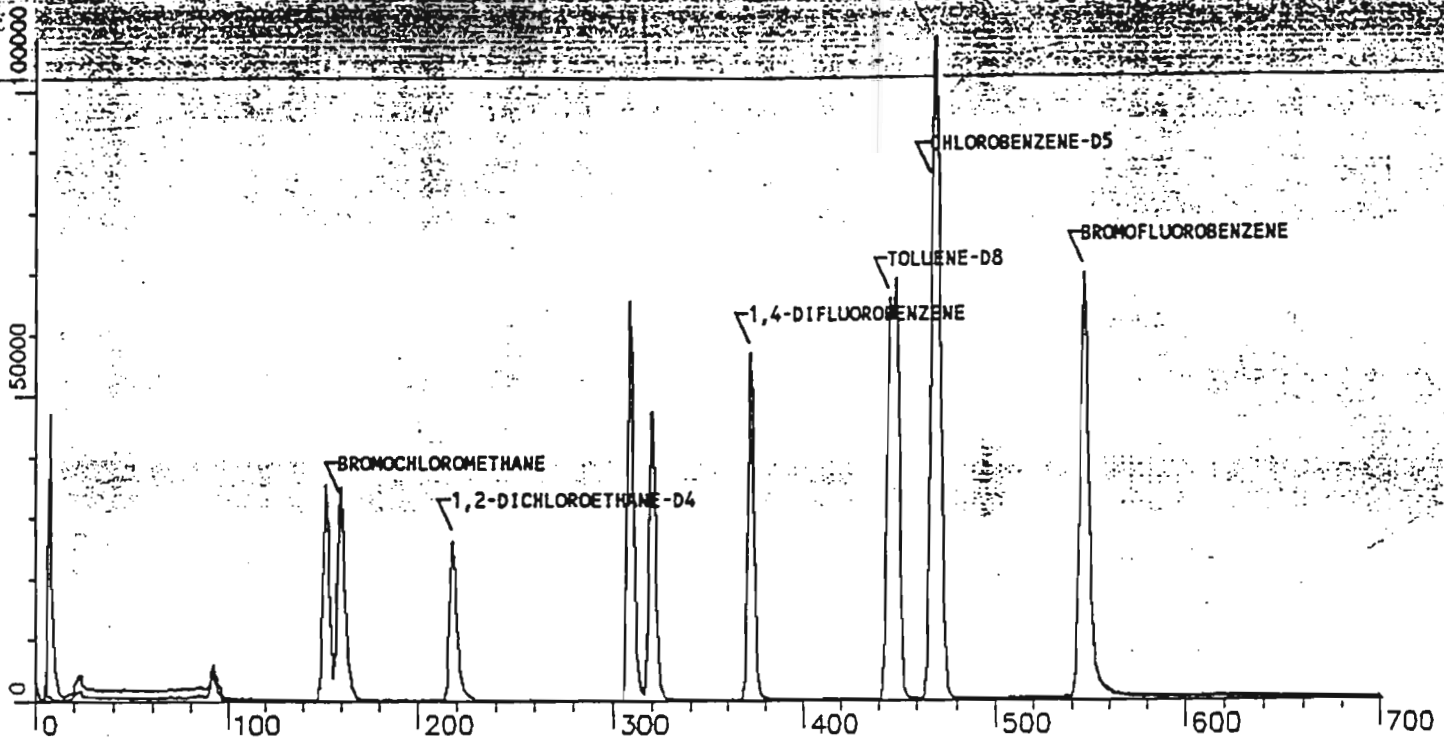
LIBRARYUM#6 CAS: 75-09-2 METHANE, DICHLORO- (CH2Cl2)



CKVB002MSAV 1

05/24/90 0947
OWAC -- SPS

Sample: BLANK VMBLK + 2.5UL 100PPM MATRIX STD.
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: WATER Submitted by: ADIENV
Volume: 5.000 ml



No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
1	128	159	7:57	1	1.000	A BB	18539.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	372	18:36	13	1.000	A BB	85510.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	468	23:24	36	1.000	A BB	73531.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	218	10:54	1	1.371	A BB	42332.	51.741 PPB	103.5	19	1,2-DICHLOROETHANE-D4
42	98	446	22:18	36	0.953	A BB	80495.	50.308 PPB	100.6	42	TOLUENE-D8
46	95	547	27:21	36	1.169	A BB	61858.	49.000 PPB	98.0	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	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	10:54	0	1.362	1.01	51.74	50.00	2.283	2.207	1.03	19	1,2-DICHLOROETHANE-D4
42	22:18	0	0.953	1.00	50.31	50.00	1.095	1.088	1.01	42	TOLUENE-D8
46	27:21	0	1.169	1.00	49.00	50.00	0.841	0.858	0.98	46	BROMOFLUOROBENZENE

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

CKVB002MSAV 2

05/24/90 0947
OWAC -- SPS

Sample: BLANK VMBLK + 2.5UL 100PPM MATRIX STD.
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: WATER Submitted by: ADIENV
Volume: 5.000 ml

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	0.579	A BB	2269.	3.340 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	96	152	7:36	1	0.956	A BB	22112.	72.090 PPB		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~~	~~75~~	~~320~~	~~16:00~~	~~13~~	~~0.860~~	~~A BB~~	~~998.~~	~~1.416 PPB~~		27	CIS-1,3-DICHLOROPROPENE
28	130	309	15:27	13	0.831	A BB	36293.	55.702 PPB		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	0.860	A BB	72845.	55.454 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	450	22:30	36	0.962	A BB	50297.	54.741 PPB		43	TOLUENE
44	112	470	23:30	36	1.004	A BB	74391.	52.981 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

CKVB002MSAV 3

05/24/90 0947
OWAC -- SPS

Sample: BLANK VMBLK + 2.5UL 100PPM MATRIX STD.
Conditions: GC/MS OWAC
Method: 8240-6 Matrix: WATER Submitted by: ADIENV
Volume: 5.000 ml

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	1.02	3.34	50.00	0.122	1.832	0.07	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	0.950	1.01	72.09	50.00	1.193	0.827	1.44	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	-66*	0.801	1.07	1.42	50.00	0.012	0.412	0.03	27	CIS-1,3-DICHLOROPROPENE
28	15:30	3	0.833	1.00	55.70	50.00	0.424	0.381	1.11	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	3	0.863	1.00	55.45	50.00	0.852	0.768	1.11	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	0.962	1.00	54.74	50.00	0.684	0.625	1.09	43	TOLUENE
44	23:33	3	1.006	1.00	52.98	50.00	1.012	0.955	1.06	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

PROCEDURE: TCA DIAGNOSTIC REPORT 5/24/90 10:32:57
DATA FILE: CKVB002MSAV
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	82	UMRET1/UMUNK1
2	2	1	0	14	3	1	57	UMRET2/UMUNK2
2	2	1	0	13	5	1	1153	UMRET2/UMUNK3
2	1	1	0	9	4	1	66	UMRET3/UMUNK4
1	1	1	0	8	3	1	18	UMRET4/UMUNK5

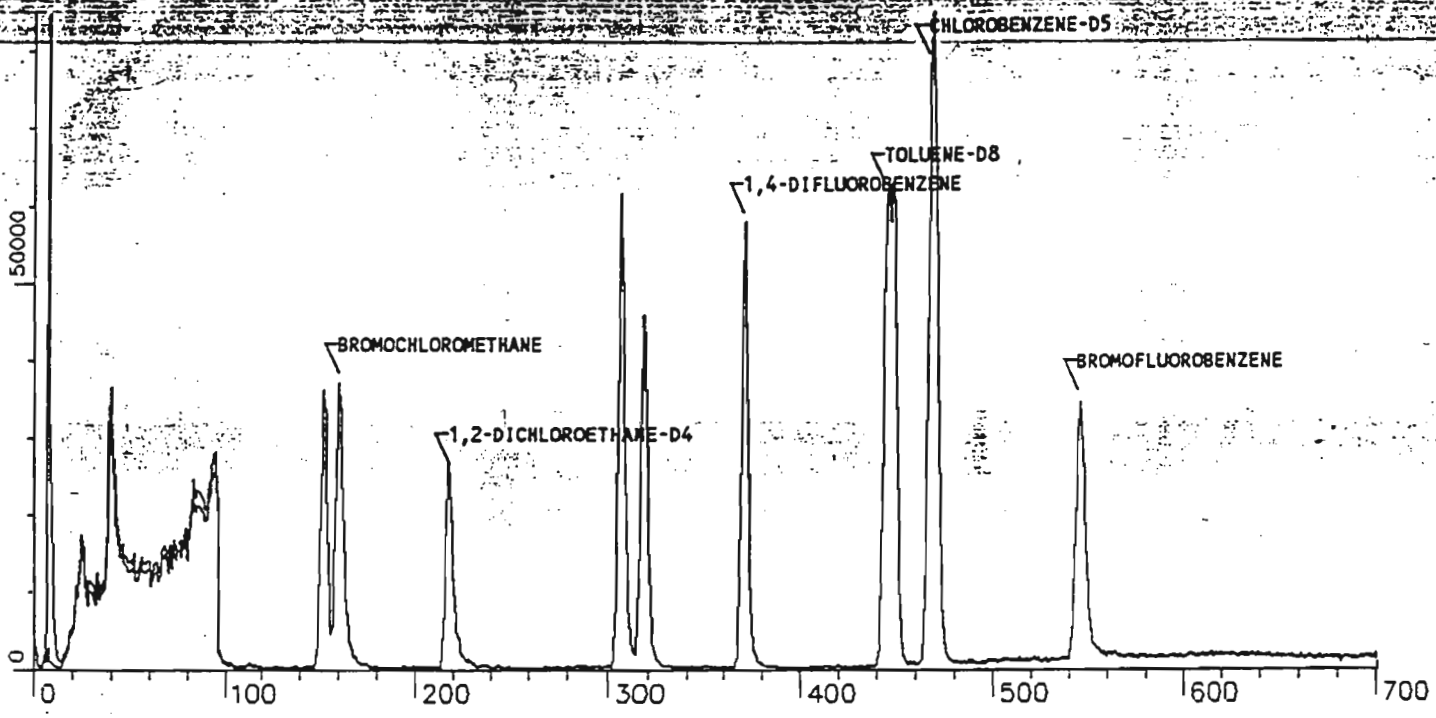
52 COMPOUNDS PROCESSED, 12 FOUND

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	982	.	128	159	-1	1
2	UM	2	-18	22	.	.	.	.	.	50	.	.	.
3	UM	3	-30	34	.	.	.	.	.	94	.	.	.
4	UM	4	-40	44	.	.	.	.	.	62	.	.	.
5	UM	5	-55	59	.	.	.	.	.	64	.	.	.
6	UM	6	-89	92	92	.	1	993	.	84	92	.	1
7	UM	7	-113	115	.	.	.	.	.	43	.	.	.
8	UM	8	-112	114	.	.	.	.	.	56	.	.	.
9	UM	9	-125	127	.	.	.	.	.	53	.	.	.
10	UM	10	-122	124	.	.	.	.	.	76	.	.	.
11	UM	11	-134	136	.	.	.	.	.	101	.	.	.
12	UM	12	-151	153	152	-1	1	996	.	96	152	.	1
13	UM	53	-144	146	.	.	.	.	.	45	.	.	.
14	UM	13	-371	372	372	.	1	997	.	114	372	.	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	220	.	.	.	.	.	62	.	.	.
21	UM	19	-217	218	218	.	1	996	.	65	218	.	1
22	UM	20	-224	225	.	.	.	.	.	72	.	.	.
23	UM	21	-210	211	.	.	.	.	.	101	.	.	.
24	UM	22	-242	243	.	.	.	.	.	97	.	.	.
25	UM	23	-250	251	.	.	.	.	.	117	.	.	.
26	UM	24	-262	263	.	.	.	.	.	43	.	.	.
27	UM	25	-262	267	.	.	.	.	.	83	.	.	.
28	UM	26	-291	296	.	.	.	.	.	63	.	.	.
29	UM	27	-297	302	320	18	1	939	.	75	320	.	1
30	UM	28	-309	314	309	-5	1	994	.	130	309	.	1
31	UM	29	-316	321	.	.	.	.	.	129	.	.	.
32	UM	30	-365	370	.	.	.	.	.	98	.	.	.
33	UM	31	-320	325	.	.	.	.	.	97	.	.	.
34	UM	32	-320	325	320	-5	1	996	.	78	320	.	1
35	UM	33	-322	327	.	.	.	.	.	75	.	.	.
36	UM	34	-345	350	.	.	.	.	.	63	.	.	.
37	UM	35	-369	374	.	.	.	.	.	173	.	.	.
38	UM	36	-467	468	.	.	.	.	.	117	468	.	1
39	UM	37	-384	385	.	.	.	.	.	43	.	.	.
40	UM	38	-416	417	.	.	.	.	.	43	.	.	.
41	UM	39	-415	416	.	.	.	.	.	83	.	.	.
42	UM	40	-421	422	.	.	.	.	.	164	.	.	.
43	UM	41	-438	440	.	.	.	.	.	56	.	.	.
44	UM	42	-444	446	446	.	1	994	.	98	446	.	1
45	UM	43	-448	450	450	.	1	996	.	92	450	.	1
46	UM	44	-469	471	471	.	1	999	.	112	470	-1	1
47	UM	45	-506	508	.	.	.	.	.	106	.	.	.
48	UM	46	-545	547	547	.	1	995	.	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	.	.	.

C114818MSV 1

05/22/90 1651
OWAC -- CMS

Sample: L#114818MS CLI#MW-10,20'-22'MS ETR#21422 3.11G
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: J14818M Client ID: MW-10,20'-22'MS ETR Number: 21422
Submitted by: ADIENV
Weight: 5.110 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	20018.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	371	18:33	13	1.000	A BB	84859.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	468	23:24	36	1.000	A BB	61979.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	218	10:54	1	1.362	A BB	35862.	46.637 PPB	93.3	19	1,2-DICHLOROETHANE-D4
42	98	445	22:15	36	0.951	A BB	75282.	51.156 PPB	102.3	42	TOLUENE-D8
46	95	546	27:18	36	1.167	A BB	29148.	42.810 PPB	85.6	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	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	1.00	46.64	50.00	1.792	1.921	0.93	19	1,2-DICHLOROETHANE-D4
42	22:12	-3	0.951	1.00	51.16	50.00	1.215	1.187	1.02	42	TOLUENE-D8
46	27:15	-3	1.167	1.00	42.81	50.00	0.470	0.549	0.86	46	BROMOFLUOROBENZENE

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

C114818MSV 2

05/22/90 1651
OWAC -- CMS

Sample: L#114818MS CLI#MW-10,20'-22'MS ETR#21422 3.11G
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114818M Client ID: MW-10,20'-22'MS ETR Number: 21422
Submitted by: ADIENV
Weight: 5.0 Vol ID: 3

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
2	NOT FOUND									2	CHLOROMETHANE
3	94	30	1:30	1	0.188	A BB	217.	0.554 PPB		3	BROMOMETHANE
4	NOT FOUND									4	VINYL CHLORIDE
5	NOT FOUND									5	CHLOROETHANE
6	84	94	4:42	1	0.588	A VB	2401.	4.761 PPB		6	METHYLENE CHLORIDE
7	43	113	5:39	1	0.706	A BB	1170.	7.528 PPB		7	ACETONE
8	NOT FOUND									8	ACROLEIN
9	NOT FOUND									9	ACRYLONITRILE
10	76	128	6:24	1	0.800	A BB	149.	0.128 PPB		10	CARBON DISULFIDE
11	NOT FOUND									11	TRICHLOROFLUOROMETHANE
12	96	152	7:36	1	0.950	A BB	24891.	64.614 PPB		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	75	319	15:57	13	0.860	A BB	1282.	1.533 PPB	C9	27	CIS-1,3-DICHLOROPROPENE
28	130	307	15:21	13	0.827	A BB	37213.	48.402 PPB		28	TRICHLOROETHENE
29	NOT FOUND									29	DIBROMOCHLOROMETHANE
30	NOT FOUND									30	METHYLCYCLOHEXANE
31	NOT FOUND									31	1,1,2-TRICHLOROETHANE
32	78	318	15:54	13	0.857	A BB	76530.	47.584 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	416	20:48	36	0.889	A BB	162.	0.272 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	449	22:27	36	0.959	A BB	50988.	54.353 PPB		43	TOLUENE
44	112	470	23:30	36	1.004	A BB	61200.	50.131 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

C114818MSV 3

Sample: L#114818MS CLI#MW-10,20'-22'MS ETR#21422 3.11G
05/22/90 1651
Conditions: GC/MS OWAC
OWAC -- CMS
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114818M Client ID: MW-10,20'-22'MS ETR Number: 21422
Submitted by: ADIENV
Weight: 5.110 g

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	-3	0.194	0.97	0.55	55.00	0.010	0.979	0.01	3	BROMOMETHANE
4	2:00		0.250							4	VINYL CHLORIDE
5	2:45		0.344							5	CHLOROETHANE
6	4:36	-6	0.575	1.02	4.76	50.00	0.120	1.260	0.10	6	METHYLENE CHLORIDE
7	5:36	-3	0.700	1.01	7.53	50.00	0.058	0.388	0.15	7	ACETONE
8	5:42		0.713							8	ACROLEIN
9	6:21		0.794							9	ACRYLONITRILE
10	6:15	-9	0.781	1.02	0.13	50.00	0.007	2.915	0.00	10	CARBON DISULFIDE
11	6:42		0.837							11	TRICHLOROFLUOROMETHANE
12	7:36	0	0.950	1.00	64.61	50.00	1.243	0.962	1.29	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	-69*	0.798	1.08	1.53	50.00	0.015	0.493	0.03	27	CIS-1,3-DICHLOROPROPENE
28	15:24	3	0.830	1.00	48.40	50.00	0.439	0.453	0.97	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	1.00	47.58	50.00	0.902	0.948	0.95	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	0.891	1.00	0.27	50.00	0.003	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	-3	0.959	1.00	54.35	50.00	0.823	0.757	1.09	43	TOLUENE
44	23:27	-3	1.004	1.00	50.13	50.00	0.987	0.985	1.00	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

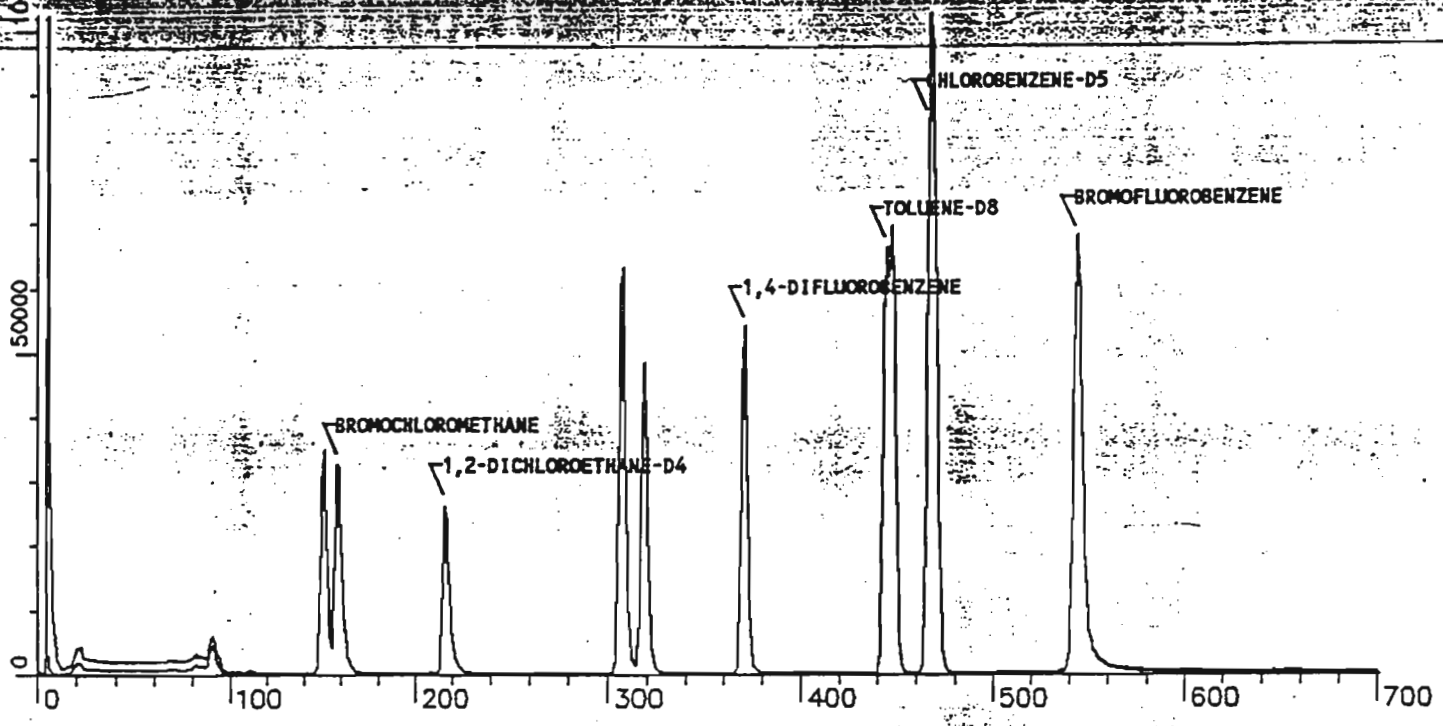
PROCEDURE: TCA DIAGNOSTIC REPORT 5/22/90 17:33:11
DATA FILE: C114818MSV
REFERENCE: JTAB11
NAME LIST: UMS INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: UMRET

STANDARDS PROC	USED	POSS	RMS	PLUS UNKNOWNS PROC	USED	POSS	RMS	LIST NAMES STANDARD/UNKNOWN
1	1	1	0	13	8	30	339	UMRET1/UMUNK1
2	2	1	0	14	3	2	114	UMRET2/UMUNK2
2	2	1	0	13	5	1	1175	UMRET2/UMUNK3
2	1	1	0	9	4	1	66	UMRET3/UMUNK4
1	1	1	0	8	4	4	65	UMRET4/UMUNK5

52 COMPOUNDS PROCESSED, 18 FOUND

COMPOUND NO	LIB	ENTRY	SEARCH REF	PRED	SEL	DELTA	PEAKS	SAT FIT	PEAKS	CHRO M/Z	TOP	DELTA	PEAKS
1	UM	1	-158	160	160	.	1	981	.	128	160	.	1
2	UM	2	-18	19	20	1	1	960	.	50	.	.	.
3	UM	3	-30	32	.	.	.	.	.	94	30	.	1
4	UM	4	-40	42	44	2	5	1000	.	62	.	.	.
5	UM	5	-55	57	51	-6	3	995	.	64	.	.	.
6	UM	6	-89	91	94	3	2	967	.	84	94	.	1
7	UM	7	-113	115	113	-2	1	988	.	43	113	.	1
8	UM	8	-112	114	.	.	.	.	.	56	.	.	.
9	UM	9	-125	127	.	.	.	.	.	53	.	.	.
10	UM	10	-122	124	128	4	1	1000	.	76	128	.	1
11	UM	11	-134	136	.	.	.	.	.	101	.	.	.
12	UM	12	-151	153	152	-1	1	990	.	96	152	.	1
13	UM	53	-144	146	.	.	.	.	.	45	.	.	.
14	UM	13	-371	371	371	.	1	997	.	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	217	-1	2	995	.	65	218	.	1
22	UM	20	-224	225	.	.	.	.	.	72	.	.	.
23	UM	21	-210	211	.	.	.	.	.	101	.	.	.
24	UM	22	-242	243	.	.	.	.	.	97	.	.	.
25	UM	23	-250	251	.	.	.	.	.	117	.	.	.
26	UM	24	-262	263	.	.	.	.	.	43	.	.	.
27	UM	25	-262	266	.	.	.	.	.	83	.	.	.
28	UM	26	-291	295	.	.	.	.	.	63	.	.	.
29	UM	27	-297	301	319	18	1	936	.	75	319	.	1
30	UM	28	-309	313	307	-6	1	996	.	130	307	.	1
31	UM	29	-316	320	.	.	.	.	.	129	.	.	.
32	UM	30	-365	368	.	.	.	.	.	98	.	.	.
33	UM	31	-320	324	.	.	.	.	.	97	.	.	.
34	UM	32	-320	324	318	-6	1	990	.	78	318	.	1
35	UM	33	-322	326	.	.	.	.	.	75	.	.	.
36	UM	34	-345	349	.	.	.	.	.	63	.	.	.
37	UM	35	-369	372	.	.	.	.	.	173	.	.	.
38	UM	36	-467	467	.	.	.	.	.	117	468	.	1
39	UM	37	-384	384	.	.	.	.	.	43	.	.	.
40	UM	38	-416	416	.	.	.	.	.	43	416	.	1
41	UM	39	-415	415	.	.	.	.	.	83	.	.	.
42	UM	40	-421	421	.	.	.	.	.	164	.	.	.
43	UM	41	-438	439	.	.	.	.	.	56	.	.	.
44	UM	42	-444	445	445	.	1	990	.	98	445	.	1
45	UM	43	-448	449	449	.	1	993	.	92	449	.	1
46	UM	44	-469	470	470	.	1	993	.	112	470	.	1
47	UM	45	-506	507	.	.	.	.	.	106	.	.	.
48	UM	46	-545	546	546	.	1	995	.	95	546	.	1
49	UM	47	-569	570	569	-1	4	352	.	104	.	.	.
50	UM	48	-575	576	.	.	.	.	.	106	.	.	.
51	UM	49	-589	590	.	.	.	.	.	106	.	.	.
52	UM	50	-653	654	.	.	.	.	.	146	.	.	.

Sample: L#114818MD CLI#MW10 20'-22': 05/15/90 @1555MSD ETR#21422
05/24/90 0800
Conditions: GC/MS OWAC
OWAC -- SPS
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114818M Client ID: MW10 ETR Number: 21422 Submitted by: ADIENV
Weight: 5.100 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	17572.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	371	18:33	13	1.000	A BB	81199.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	467	23:21	36	1.000	A BB	67734.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	216	10:48	1	1.367	A BB	42239.	54.468 PPB	108.9	19	1,2-DICHLOROETHANE-D4
42	98	445	22:15	36	0.953	A BB	81724.	55.447 PPB	110.9	42	TOLUENE-D8
46	95	545	27:15	36	1.167	A BB	58307.	50.140 PPB	100.3	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	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	6	1.362	1.00	54.47	50.00	2.404	2.207	1.09	19	1,2-DICHLOROETHANE-D4
42	22:18	3	0.953	1.00	55.45	50.00	1.207	1.088	1.11	42	TOLUENE-D8
46	27:21	6	1.169	1.00	50.14	50.00	0.861	0.858	1.00	46	BROMOFLUOROBENZENE

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

C114818MDI2 2

Sample: L#114818MD CLI#MW10 20'-22': 05/15/90 @1555MSD ETR#21422 — 05/24/90 0800
Conditions: GC/MS OWAC — OWAC -- SPS
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114818M Client ID: MW10 ETR Number: 21422 Submitted by: ADIENV
Weight: 3.100 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	0.576	A BB	2233.	3.468 PPB		6	METHYLENE CHLORIDE
7	43	111	5:33	1	0.703	A BB	1012.	6.242 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	151	7:33	1	0.956	A BB	22155.	76.205 PPB		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~~	~~208~~	~~10:24~~	~~13~~	~~0.561~~	~~A BB~~	~~251.~~	~~0.364 PPB~~		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~~	~~75~~	~~319~~	~~15:57~~	~~13~~	~~0.860~~	~~A BB~~	~~1161.~~	~~1.735 PPB~~		27	CIS-1,3-DICHLOROPROPENE
28	130	307	15:21	13	0.827	A BB	36035.	58.242 PPB		28	TRICHLOROETHENE
29	NOT FOUND									29	DIBROMOCHLOROMETHANE
30	NOT FOUND									30	METHYLCYCLOHEXANE
31	NOT FOUND									31	1,1,2-TRICHLOROETHANE
32	78	319	15:57	13	0.860	A BB	72401.	58.042 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	448	22:24	36	0.959	A BB	49808.	58.848 PPB		43	TOLUENE
44	112	469	23:27	36	1.004	A BB	73279.	56.656 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

C114818MDI2 3

Sample: L#114818MD CLI#MW10 20'-22': 05/15/90 @1555MSD ETR#21422 — 05/24/90 0800
Conditions: GC/MS OWAC — OWAC -- SPS
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114818M Client ID: MW10 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	1:33		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	3.47	50.00	0.127	1.832	0.07	6	METHYLENE CHLORIDE
7	5:36	3	0.700	1.00	6.24	50.00	0.058	0.461	0.12	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	3	0.950	1.01	76.20	50.00	1.261	0.827	1.52	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	6	0.565	0.99	0.36	50.00	0.003	0.424	0.01	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	-63*	0.801	1.07	1.74	50.00	0.014	0.412	0.03	27	CIS-1,3-DICHLOROPROPENE
28	15:30	9	0.833	0.99	58.24	50.00	0.444	0.381	1.16	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	6	0.863	1.00	58.04	50.00	0.892	0.768	1.16	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	58.85	50.00	0.735	0.625	1.18	43	TOLUENE
44	23:33	6	1.006	1.00	56.66	50.00	1.082	0.955	1.13	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

PROCEDURE: TCA DIAGNOSTIC REPORT 5/24/90 8:35:45
DATA FILE: C114818MDI2
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	5	1	216	UMRET1/UMUNK1
2	2	1	0	14	3	1	79	UMRET2/UMUNK2
2	2	1	0	13	5	1	1178	UMRET2/UMUNK3
2	1	1	0	9	4	1	60	UMRET3/UMUNK4
1	1	1	0	8	4	1	16	UMRET4/UMUNK5

52 COMPOUNDS PROCESSED, 15 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	158	158	.	1	979	.	128	158	.	1
2	UM	2	-18	21	.	.	.	.	.	50	.	.	.
3	UM	3	-30	32	.	.	.	.	.	94	.	.	.
4	UM	4	-40	42	.	.	.	.	.	62	.	.	.
5	UM	5	-55	57	.	.	.	.	.	64	.	.	.
6	UM	6	-89	90	91	1	1	990	.	84	91	.	1
7	UM	7	-113	114	111	-3	1	997	.	43	111	.	1
8	UM	8	-112	113	.	.	.	.	.	56	.	.	.
9	UM	9	-125	126	.	.	.	.	.	53	.	.	.
10	UM	10	-122	123	125	2	1	1000	.	76	.	.	.
11	UM	11	-134	134	.	.	.	.	.	101	.	.	.
12	UM	12	-151	151	151	.	1	996	.	96	151	.	1
13	UM	53	-144	144	.	.	.	.	.	45	.	.	.
14	UM	13	-371	371	371	.	1	997	.	114	371	.	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	219	.	.	.	.	.	62	.	.	.
21	UM	19	-217	217	216	-1	1	996	.	65	216	.	1
22	UM	20	-224	224	.	.	.	.	.	72	.	.	.
23	UM	21	-210	210	.	.	.	.	.	101	208	.	1
24	UM	22	-242	242	.	.	.	.	.	97	.	.	.
25	UM	23	-250	250	.	.	.	.	.	117	.	.	.
26	UM	24	-262	262	.	.	.	.	.	43	.	.	.
27	UM	25	-262	266	.	.	.	.	.	83	.	.	.
28	UM	26	-291	295	.	.	.	.	.	63	.	.	.
29	UM	27	-297	301	319	18	1	937	.	75	319	.	1
30	UM	28	-309	313	307	-6	1	998	.	130	307	.	1
31	UM	29	-316	320	.	.	.	.	.	129	.	.	.
32	UM	30	-365	369	.	.	.	.	.	98	.	.	.
33	UM	31	-320	324	.	.	.	.	.	97	.	.	.
34	UM	32	-320	324	319	-5	1	997	.	78	319	.	1
35	UM	33	-322	326	.	.	.	.	.	75	.	.	.
36	UM	34	-345	349	.	.	.	.	.	63	.	.	.
37	UM	35	-369	373	.	.	.	.	.	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	445	1	1	994	.	98	445	.	1
45	UM	43	-448	448	448	.	1	994	.	92	448	.	1
46	UM	44	-469	469	469	.	1	999	.	112	469	.	1
47	UM	45	-506	506	.	.	.	.	.	106	.	.	.
48	UM	46	-545	545	545	.	1	998	.	95	545	.	1
49	UM	47	-569	569	569	.	1	333	.	104	.	.	.
50	UM	48	-575	575	.	.	.	.	.	106	.	.	.
51	UM	49	-589	589	.	.	.	.	.	106	.	.	.
52	UM	50	-653	653	.	.	.	.	.	146	.	.	.

SAMPLE PREPARATION PACKAGE

aquatec

ENVIRONMENTAL SERVICES

75 Green Mountain Drive, So. Burlington, VT 05403
TEL. 802/655-1074

VOLATILE ORGANICS ANALYSIS
SUMMARY OF PERCENT MOISTURE IN SOIL SAMPLES

Lab Name: AQUATEC, INC. Contract: ADIENV

Case ETR SPS No.: 21422 SAS No.: _____ SDG No.: 114814

SMO#	LAB#	Wt. of dish	Wt. of wet smpl.+dish	Wt. of dry smpl.+dish	%MOIST.	%SOLID
	114815	1.49	8.04	7.37	10.23	89.77
	114816	1.48	9.81	9.18	7.56	92.44
	114817	1.51	8.92	8.35	7.69	92.31
	114818	1.49	11.52	10.66	8.57	91.43
	114819	1.48	6.89	5.47	26.25	73.75
	114820	1.49	10.16	8.19	22.72	77.28
	114821	1.49	10.28	9.54	8.42	91.58
	114822	1.48	10.49	9.90	6.55	93.45
	~~RQA~~ SPS					

ANALYST: SPS DATE: / / . CHECKED BY: SCM 05/20/90

VOLATILE ORGANICS ANALYSIS
SUMMARY OF PERCENT MOISTURE IN SOIL SAMPLES

Lab Name: AQUATEC, INC. Contract: ADIENV

~~CASE~~ ETR SRS No.: 21436 SAS No.: _____ SDG No.: 114814

SMO#	LAB#	Wt. of dish	Wt. of wet smpl.+dish	Wt. of dry smpl.+dish	%MOIST.	%SOLID
	114877	1.49	9.74	8.69	12.73	87.27
	114878	1.50	8.30	7.79	7.50	92.5
	114879	1.47	8.01	7.35	10.09	89.91
	114880	1.49	9.43	3.03	80.60	19.40

ANALYST: SPS DATE: 5/22/90. CHECKED BY: [illegible] 6/5/90.

VOLATILE ORGANICS ANALYSIS
SUMMARY OF PERCENT MOISTURE IN SOIL SAMPLES

Lab Name: AQUATEC, INC. Contract: ADIENV

SPS ~~CASE~~ ETR No.: 21455 SAS No.: _____ SDG No.: 114814

SMO#	LAB#	Wt. of dish	Wt. of wet smpl.+dish	Wt. of dry smpl.+dish	%MOIST.	%SOLID
	~~114944~~ SPS					
	114945	1.48	7.31	6.77	9.26	90.74

ANALYST: SPS DATE: 5/22/90 CHECKED BY: CP 6/4/90

VOA Extraction Log

5/15/90 USEPA SPS

	MeOH Blank		
ETR # 21394	114728	1.03g	
	114729	0.98g	
	114730	0.97g	

5/20/90	ETR # 21017	MeOH Blank	CMP
		113591	8ml MeOH + 1ml SS (25ppm)
		113592	8ml MeOH + 1ml SS (25ppm)
		113593	1.00g corn oil

5/23/90	LAW MAT	MEOH BLANK 5/23/90	CMP
		114806	4.04g + 9ml MeOH + 1ml Surr
	ETR # 21419	114806 MS	4.07g + 8ml MeOH + 1ml SS + 1ml MS
		114806 MSD	4.09g + 8ml MeOH + 1ml Surr + 1ml MS

5/24/90	AIDENV	MEOH BLANK	CMP
		114880	4.17g + 9ml MeOH + 1ml Surr
		114880 MS	4.04g + 8ml MeOH + 1ml Surr + 1ml MS
		114880 MSD	4.25g + 8ml MeOH + 1ml Surr + 1ml MS

5/31/90	ETR # 21451	BAL ENV		SPS
		MeOH Blank		
		114936	4.03g	

6/4/90	ETR # 21498	GEBURL		SPS
		MeOH Blank		
		115112	4.06g	

CWA C VOA Runlog

Time	Filename	Description	Analyst
	05/14/96		
12 17	C114446V	L#114446 CLI# IS-24-1 ETR#21309 3.16g	CMP
13 19	C114677V	L#114677 CLI# 9006-B203-58 ETR# 21372 3.12g	CMP
1438	C114681V	L#114681 CLI#9006-II45D-53 ETR#21372 3.10g	CMP
1545	C114682V	L#114682 CLI# 9006-II45D-51B ETR# 21372 3.03g	CMP
1641	C114676V	L#114676 CLI#9006-B202-59 ETR#21372 3.05g	CMP
1731	C114682I2V	L#114682 CLI#9006-II45D-51B ETR#21372 1.30	CMP
1905	CKP035PV	BFBC35 S# 111-112 A= 24K	CMP
1928	CKP050NHV	VSTD050 CRV#CKP-N oven @ 220c	CMP
2010	CKP050DHV	VSTD050 CRV#CKP-D	CMP
2117	CKP050PHV	VSTD050 CRV#CKP-P	CMP
	CKP1300.1PV	Blank + 2.5 µl 100ppm CS2 std.	
	CKP03.6PV	BFBC36 SPS BFBC36	SPS
1927	CKP037PV	BFBC37 S# 110-113 A=	SPS
	CKPBL02PV	Blank + 2.5µl 100ppm Trichlorofluoromethane	SPS
	CKPB003FV		CMP
250	CKQ200RV	VSTD200 CRV# CKQ SPS	SPS
	CKQ150PHV	VSTD150 CRV# CKQ SPS	
258	CKQ200HV	VSTD200 CRV#CKQ	SPS
1352	CKQ150HV	VSTD150 CRV#CKQ	SPS
1444	CKQ020HV	VSTD020 CRV#CKQ	CMP
1538	CKQ100HV	VSTD100 CRV#CKQ	CMP
1628	CKQ050HV	VSTD050 CRV#CKQ	CMP
1752	CKQ001PV	BFBC01	CMP
1808	CKQ002PV	BFBC02	CMP
1921	CKQ003PV	BFBC03 S# 110-113 A= 29K	CMP
1905	CKQ050AHV	VSTD050 CRV#CKQ-A	CMP
2010	CKQB001AV	Blank + 3.02g act. soil SPIKE LENS	CMP
2115	C114445V	L#114445 CLI# IS-23-8 ETR#21309 3.00g	CMP
2211	C114449V	L#114449 CLI# IS-24-4 ETR#21309 3.01g	CMP
0003	C114521V	L#114521 CLI# IS-7-1 ETR#21325 3.01g	CMP
0001	C114524V	L#114524 CLI# IS-7-4 ETR#21325 3.22g	KZK
0054	C114529V	L#114529 CLI#RB-11-4 ETR#21325 3.27g	KZK
0144	C114531V	L#114531 CLI#RB-11-6 ETR#21325 3.15g	KZK
0253	C114533V	L#114533 CLI#RB-13-2 ETR#21326 3.26g	KZK
0346	C114535V	L#114535 CLI#RB-13-4 ETR#21326 3.17g	KZK

OU A C VOA Runlog

05/17/90

Time	Filename	Description	
1522	CH14644V	L# 114644 CLI# GW-5 soil Comp ETR# 21363 3.26g	CHM
1624	CH14651V	L# 114651 CLI# BS-7-4 ETR# 21366 3.04g	CHM
1721	CH14657V	L# 114657 CLI# BS-7-10 ETR# 21364 5.03g	CHM
	CKQ011PV	BFBC11	CHM
1733	CKQ012PV	BFBC12 S# 110-113 A=28k	CHM
1848	CKQ050HV	VSTD050 CRV# CKQ-G	CHM
0001	CKQB001GV	Blank SMO# UBIKN9 + 2.03g alt. soil	CHM
2112	CH14657IV	L# 114657 CLI# BS-7-10 ETR# 21366 3.02g	CHM
2215	CH14748V	L# 114748 CLI# RE-69383-D12 ETR# 21399 3.02g	CHM
2313	CH14749V	L# 114749 CLI# RE-69383-D13 ETR# 21399 3.16g	CHM
	5-18-90		
0016	CH14750V	L# 114750 CLI# RE-69383-D14 ETR# 21399 3.02g	KJK
0051	CH14751V	L# 114751 CLI# RE-69383-D15 ETR# 21399 3.02g	KJK
0340	CH14749IV	L# 114749 CLI# RE-69383-D13 ETR# 21399 3.16g	KJK
0521	CH14697V	L# 114697 CLI# SWAA-7,10-18 ETR# 21383 3.06g	KJK
0653	CKQ013PV	BFBC13 u=25k	KJK
	CKQ014PV	BFBC14	KJK
	CKQ015PV	BFBC15 S60-67 A=30k	SPS
0722	CKQ050HHV	VSTD050 CRV# CKQ-H	SPS
0810	CKQ050GHV SRL	VSTD050 CRV# CKQ-G	SPS
0950	CKQB001IV	Blank 56sps SMO# UBIKP1	SPS
1045	CKQB002IV	Blank SMO# UBIKP2 + 2.98g artificial soil	SPS
1137	CH14814V	L# 114814 CLI# TVP Blank ETR# 21422 100%	SPS

SPS 5/18/90

OWA C VOA Runlog

Time	Filename	Description		Analyst
	05/21/90			
	CA	FC43		cmp
	CKS008PV	BFBC08	30K	cmp
0939	CKS010PV	BFBC10 S#105-106	A=	cmp
11:08	CKQ050LHV	VSTD050 CRV#CKT		cmp
12 16	CKT200HV	VSTD200 CRV#CKT		cmp
13 13	CKT150HV	VSTD150 CRV#CKT		cmp
14 04	CKT020HV	VSTD020 CRV#CKT		cmp
15 01	CKT100HV	VSTD100 CRV#CKT		cmp
1630	CKT200H12V	VSTD100 CRV#CKT		cmp
1750	CKT001PV	BFBC01 S#159-160	A=25K	cmp
1816	CKT050AHV	VSTD050 CRV#CKT		cmp
1824	CKTB001AV	Blank		cmp
1916	CKTB002AV	Blank SMO#UBLKP8		cmp
1925	C114674V	L#114674 CLI#TRIP BLANK ETR#21371	100%	cmp
1923	C114675V	L#114675 CLI#DW-1 ETR#21371	100%	cmp
2345	CKTB003AV	Blank SMO#UBLKP9 +3.11g art.soil		cmp
	5-22-90			
0056	C114802V	L#114802 CLI"GWAA-8, 18-20' ETR#21419	3.09g	KMC
0121	C114804V	L#114804 CLI"GWAA-8, 25-30' ETR#21419	3.25g	KMC
0401	CKTB004AV	Blank		KMC
0903	CKT002PV	BFBC02 S#110-111	A=24.7K	KMC
0926	CKT050BHV	VSTD050 CRV#CKT-B		KMC
	CKTB001BV	BLANK SMO#UBLKQ1 +3.20g artificial soil		cmp

OWA CVOA Runlog

Time	Filename	Description				Analysis
	05/22/90					
0957	C114816V	L#114816	CLI#MW-9 10'-12'	ETR#21422	3.40g	cmp
1113	C114817V	L#114817	CLI#MW-10 5.5'-7.5'	ETR#21422	3.11g	cmp
1209	C114819V	L#114819	CLI# 6,-4	ETR#21422	3.10g	cmp
1336	C114820V	L#114820	CLI# 7,-3	ETR# 21422	3.22g	cmp
1431	C114821V	L#114821V	CLI#MW-11 5.5'-7.5'	ETR# 21422	3.-	cmp
1546	C114818V	L#114818	CLI# MW-10, 20'-22'	ETR# 21422	3.11g	cmp
1651	C114818MSV	L#114818MS	CLI# MW-10, 20'-22'MS	ETR# 21422	3.11g	cmp
1743	C114818MDV	L#114818MD	CLI# MW-10, 20'-22'MSD	ETR#21422	3.09g	GES
1812	CKT003PV	BFBC03				GES
1900	CKT004PV	BFBC04	S, 3.37 - S, 2.8V			GES
1910	CKT005PV	BFBC05				GES
1933	CKT006PV	BFBC06				GES
2002	CKT007AV	BFBC07	S#256-25K	A=		GES
2131	CKT050CHV	VSTD050	CRV#CKT-C			CMP
2200	CKT050DHV	VSTD050	CRV#CKT-D			CMP
2304	CKT008PV	BFBC08		A-14k		CMP
2324	CKT009PV	BFBC09				
2334	CALTAB	FC4-3				HZC
2339	CKT010PV	BFBC10				KZMC
2350	CKT011PV	BFBC11		A=24.7k		KZC
	5-23-90					
0025	CKT012PV	BFBC12				KZMC
	CKT013PV	BFBC13				
	CKT014PV	BFBC14				SPS
	CKT018PV	BFBC18PV				SPS
1101	CKT050EHV	VSTD050	CRV#CKT-E			SPS
1226	CKU200HV	VSTD200	CRV#CKU			SPS
1321	CKU150HV	VSTD150	CRV#CKU			SPS
1415	CKU100HV	VSTD100	CRV#CKU			SPS
1516	CKU020HV	VSTD020	CRV#CKU			SPS
1605	CKU050HV	VSTD050	CRV#CKU			SPS
1725	CKU200H12V	VSTD200	CRV#CKU			SPS
1900	CKU200H13V	VSTD200	CRV#CKU			CMP
2015	CKU001PV	BFBC01				CMP

OWAC VOA RUNLOG

Time	Filename	Description
1137	C114814V	L# 114814 CLI# Trip Blank ETR# 21422 100%
1228	C114815V	L#114815 CLI# MW-9 5S'-7.5' ETR# 21422 3.10g
1329	C114715V	L#114715 CLI# BS-3-1 ETR# 21391 3.07g
1427	C114716V	L#114716 CLI# BS-3-2 ETR# 21391 3.06g
1527	C114718V	L# 114718 CLI# BS-12-2 ETR# 21391 1.05g
1621	C114720V	L# 114720 CLI# BS-12-4 ETR# 21391 3.00g
1713	C114723V	L# 114723 CLI# BS-13-2 ETR# 21391 2.60g
1801	C113718I2V	L# 113718 CLI# BS-12-2 ETR# 21391 3.13g
1853	C113716I2V	L# 113716 CLI# BS-3-2 ETR# 21391 3.20g
1954	CKQ016IV	BEBC16
2012	CKQ017PV	BEBC17 S# 113-114, 117, 118-100-103 A=39 K
2027	CKQ050SHV	VSTD050 CRV# CKQ-J
2144	CKQ050KHV	VSTD050 CRV# CKQ-K
2250	CKQB001KV	~~VSTD050~~ BLANK J=3.12g ARTIFICIAL SOIL
5/19/10 0:04	C114723I2V	L#114723 CLI# BS-13-2 ETR# 21391 2.07g
1:46	C114725V	L#114725 CLI# BS-13-4 ETR# 21392 3.02g
2:44	C114725I2V	L#114725 CLI# BS-13-4 ETR# 21392 3.27g
3:48	C114601V	L#114601 CLI# Drum 112 ETR# 21353 3.69g Bad ISTD
7:55	C114601I2V	L#114601 CLI# DRUM 112 ETR# 21353 3.22g
9:17	CKQB002KV	Blank
1308	CKR002PV	BEB
	CKR200HV	VSTD200 CRV# CKR + 100 ul MeOH
1811	CKR200HI2V	VSTD200 CRV# CKR + 100 ul MeOH
Cup 0000 2133	CKR003PV	BEBC03 S# 240-263
5/20 0035	CKS200HV	VSTD200 CRV# CKS + 100 ul MeOH
5/20 0135	CKS020HV	VSTD020 CRV# CKS + 100 ul MeOH
0238	CKS150HV	VSTD150 CRV# CKS + 100 ul MeOH
0328	CKS100HV	VSTD100 CRV# CKS + 100 ul MeOH
0421	CKS050HV	VSTD050 CRV# CKS + 100 ul MeOH
0530	CKS200HI2V	VSTD200 CRV# CKS + 100 ul MeOH
0643	CKS001PV	BEBC01
0659	CKS002PV	BEBC02 S# 111-112 A=46 K
0726	CKS050AHV	VSTD050 CRV# CKS + 100 ul MeOH
0837	CKSB001AV	~~VBLK~~ SMOKE BLANK P2

OWAC VOA RUNLOG

Time	Filename 5/23/90	Description	Cal	Comm.
34	CKU002PV	BFBC02	CMP	
	CKU003PV	BFBC03	CMP	
01	CKU004PV	BFBC04	CMP	
	CKU005PV	BFBC05	CMP	
32	CKU006PV	BFBC06 ST 103-104 A=.25K	CMP	
0145	CKV200HV	VSTD200 CRV# CKV	CMP	
38	CKV020HV	VSTD020 CRV# CKV	CMP	
36	CKV100HV	VSTD100 CRV# CKV	CMP	
	5-24-90			
23	CKV150HV	VSTD150 CRV# CKV	KAP	
112	CKV050HV	VSTD050 CRV# CKV	KAP	
35	CKV200HI2V	VSTD200 CRV# CKV	KAP	
421	CKV001PV	BFBC01 S# 111-113 A=22k.	KAP	
51	CKV050AHV	VSTD050 CRV# CKV-A	KAP	
601	CKVB001AV	Blank SMO# VBLKQ3, + 3.12g Artificial	KAP	Sc. 1
03	C114820I2V	L# 114820 CLI# 7,-3:05 5/15/90 @ 1500 ETR# 21422	KAP	3.19g
000	C114818MDI2V	L# 114818 CLI# MW-1020'-22'; 05/15/90 @ 1555 ETR# 21422	SPS	3.10g
352	C114822V	L# 114822 CLI# MW-11 18'-20'; 05/15/90 @ 0825 ETR# 21422	SPS	2.98g
47	CKVB002MBAV	Blank SMO# VBIKQ4 + 2.5μl 100ppm Matrix Std	SPS	
045	C114877V	L# 114877 CLI# MW-12 5.5'-7.5' ETR# 21436	SPS	3.03g
34	C114878V	L# 114878 CLI# MW-12 18'-70' ETR# 21436	SPS	2.95g
238	C114879V	L# 114879 CLI# MW-13, 34-34.5' ETR# 21436	CMP	3.20g
233	C114945V	L# 114945 CLI# MW-12-18'-20' Duplicate ETR# 21455	CMP	3.30g
	~~C114604V~~	~~L# 114604 CLI~~ CMP		3.28g

200404

CWA C VOA Runlog

05/25/90 cont

me	Filename	Description				Analyst
14:45	C114710V	L# 114710	CLI# WG001	ETR# 21389	3.08g	CMP
15:42	C114711V	L# 114711	CLI# WG002	ETR# 21389	3.22g	CMP
16:34	C114712V	L# 114712	CLI# WG003	ETR# 21385	3.03g	BES
17:23	C114779V	L# 114779	CLI# WG004	ETR# 21407	3.07g	BES
18:35	C114780V	L# 114780	CLI# WG005	ETR# 21407	3.02g	BES
19:34	C114781V	L# 114781	CLI# WG006	ETR# 21407	3.12g	BES
20:22	CKV012PV	BFBC12	3,121 → 120			BES
20:36	CKV013PV	BFBC13	S# 113-115	A = 26k		BES
20:58	CKV050HV	VSTD050	CRV# CKV-D			BES
22:05	CKV600IDV	BLANK	3.03g	AIR	SOIL	BES
3:11	CKV6002DV	BLANK	(WATER BLANK)			BES
	C114786I2V	L# 114786	CLI# WG005	ETR 21407	3.27g	JKC
1:21	C114780I3V	"	"		3.47g	JKC
2:29	C114782V	L# 114782	CLI# WG008	ETR 21407	3.39g	JKC
3:33	C114783V	L# 114783	CLI# WB009	ETR 21407	3.60g	JKC
5:21	C114896V	L# 114896	CLI# WG016	ETR# 21442	3.09g	ISH. LOW A
6:38	C114896I2V	L# 114896	CLI# WG016	ETR# 21442	3.13g	JKC
7:41	CH4897V	# 114897	CLI# WG017	ETR# 21442	3.03g	CMP
8:41	CKVB003DV	Blank	100%			CMP
9:15	CKVB004DV	Blank	100%			CMP
10:12	C114731V	L# 114731	CLI# AS-IN	ETR# 21395	100%	JMCO CMP
11:00	C114732V	L# 114732	CLI# AS-OUT	ETR# 21395	100%	CMP
11:50	C114733V	L# 114733	CLI# Sewer	ETR# 21395	100%	CMP
	5/29/90					
28	CKV014PV	BFBC14			A = 69.5k	KZK
0638	CKV015PV	BFBC15			A = 63k	KZK
02	CKV016PV	BFBC16			A = 56.7k	KZK
07 12	CKV017PV	BFBC17			A = 58K	KZK
0734	CKV050EHV	VSTD050	CRV# CKV-E			SPS
13	CKV050FHV	VSTD050	CRV# CKV-F			SPS
1232	CKW200HV	VSTD200	CRV# CKW			SPS
1338	CKW150HV	VSTD150	CRV# CKW			SPS
1441	CKW100HV	VSTD100	CRV# CKW			SPS
39	CKW020HV	VSTD020	CRV# CKW			SPS
1645	CKV018PV	BFBC18	S# 115-117	A = 45K		CMP
1700	CKW050AHV	VSTD050	CRV# CKW-A			CMP

000406

OWAC VOA RUNLOG

TIME	FILENAME	DESCRIPTION	ANALYST
	5/29/90		
	~~CKWB002AV~~		
1802	CKWB001AV	Blank	CMP
1920	CKWB002AV	Blank SMO# VBLKQ7 + 3.00 g artificial soil	CMP
2015	C114074V	L# 114074 CLI# 1A-3-5 ETR# 21190 3.02g	CMP
2118	C114075V	L# 114075 CLI# 1A-3-6 ETR# 21190 3.01g	CMP
2215	C114084V	L# 114084 CLI# 1S-15-2 ETR# 21190 3.03g	CMP
2311	C114086V	L# 114086 CLI# 1S-15-4 ETR# 21190 3.09g	CMP
	5-30-90		
0022	C114092V	L# 114092 CLI# FS-16-6 ETR# 21190 3.21g	KKK
0112	C114894V	L# 114894 CLI# RE69383-D19 ETR# 21441 3.29g	KKK
0203	C114895V	L# 114895 CLI# RE69383-D20 ETR# 21441 3.20g	KKK
0314	C114935V	L# 114935 CLI# MW-2, S-3 ETR# 21451 3.15g	KKK
0408	C114880E3V	L# 114880 CLI# Septic Sludge ETR# 21436 0.42/5-1.4.17g/ml	KKK
1-43	CKWD019BV	BFBC19 S-170-172 A=39K	SPS
1-47	CKWGS08HV	YSTDES0 CRV# CKW-B	SPS
0955	CKWB001BV	Blank SMO# VBIKQ8	SPS
0953	CKWB002BV	Blank SMO# VBLKQ9 + 3.02g artificial soil	CMP

000407

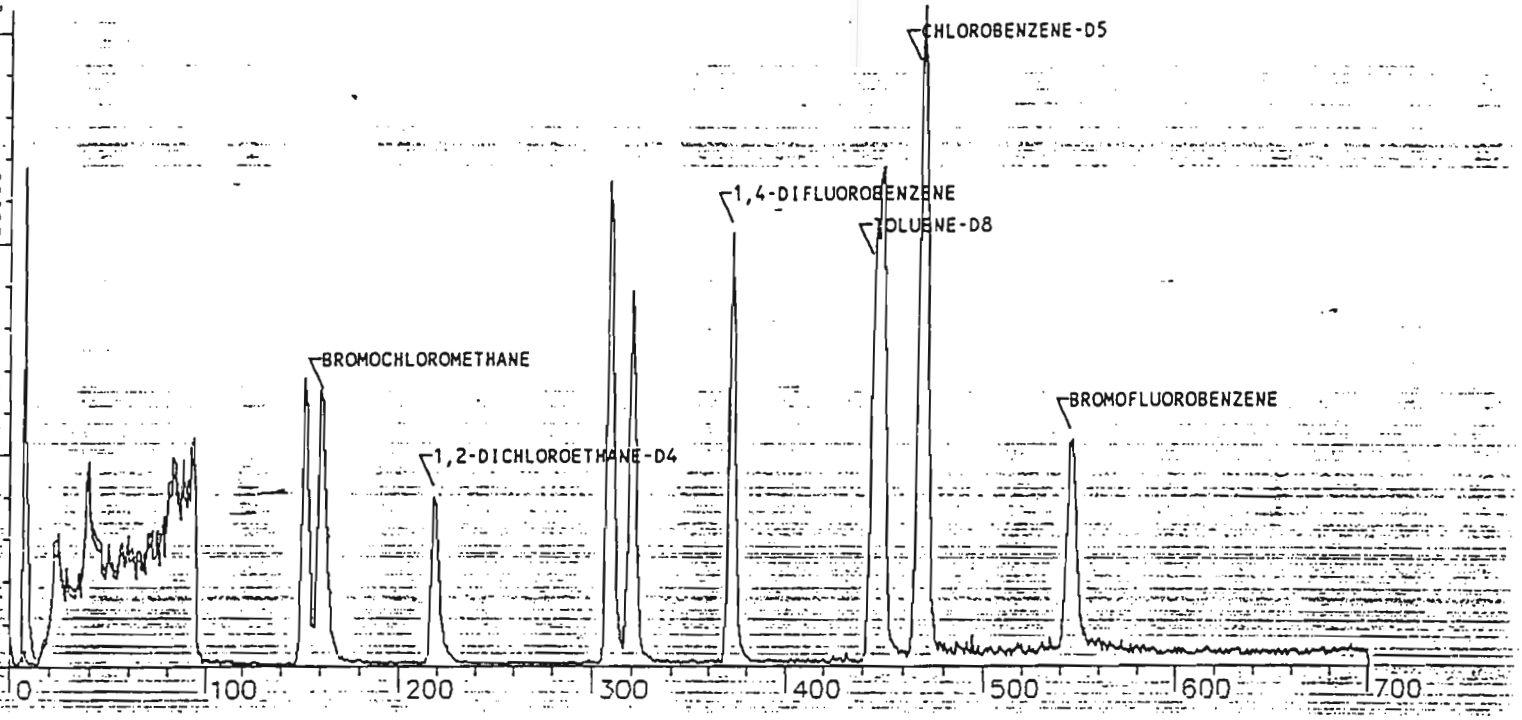
OWA C VOA Runlog

Time	Filename	Description	Analyst
05/30/96 cont			
1 46	C114880E5V	L#114880 CLI# septic sludge CTR# 21436 4.17g/10mL → 0.15ul/5ml	CMP
2 47	C114880E6V	L#114880 CLI# septic sludge CTR# 21436 4.17g/10mL cmp.H → 1.3ul/5ml	CMP
3 36	C114880E7V	L#114880 CLI# septic sludge CTR# 21436 4.17g/10mL → 0.35ul/5ml	CMP

C114818MDV

05/22/90 1743
OWAC -- BES

Sample: L#114818MD CLI#MW-10,20-22'MSD ETR#21422 3.04G
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114818M Client ID: MW-10,20-22'MSD ETR Number: 21422
Submitted by: ADIENV
Weight: 3.040 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	18447.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	372	18:36	13	1.000	A BB	77600.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	468	23:24	36	1.000	A BV	55633.	50.000 PPB		36	CHLOROBENZENE-D5
19	65	218	10:54	1	1.354	A BV	28619.	40.387 PPB	80.8	19	1,2-DICHLOROETHANE-D4
42	98	445	22:15	36	0.951	A BB	57856.	43.799 PPB	87.6	42	TOLUENE-D8
46	95	546	27:18	36	1.167	A BB	21394.	35.006 PPB	70.0	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	-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	1.00	40.39	50.00	1.551	1.921	0.81	19	1,2-DICHLOROETHANE-D4
42	22:12	-3	0.951	1.00	43.80	50.00	1.040	1.187	0.88	42	TOLUENE-D8
46	27:15	-3	1.167	1.00	35.01	50.00	0.385	0.549	0.70	46	BROMOFLUOROBENZENE

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

05/22/90 1743
OWAC -- BES

Sample: L#114818MD CLI#MW-10,20-22'MSD ETR#21422 3.04G
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114818M Client ID: MW-10,20-22'MSD ETR Number: 21422
Submitted by: ADIENV
Weight: 3.040 g

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
~~2~~	~~50~~	~~40~~	~~2.00~~	~~1~~	~~0.248~~	~~A BV~~	~~5959.~~	~~18.943 PPB~~		2	CHLOROMETHANE
3	NOT FOUND									3	BROMOMETHANE
~~4~~	~~62~~	~~59~~	~~2:57~~	~~1~~	~~0.368~~	~~A VB~~	~~391.~~	~~1.247 PPB~~		4	VINYL CHLORIDE
~~5~~	~~64~~	~~70~~	~~3:30~~	~~1~~	~~0.435~~	~~A BB~~	~~546.~~	~~1.428 PPB~~		5	CHLOROETHANE
6	84	93	4:39	1	0.578	A VB	2906.	6.253 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	96	152	7:36	1	0.944	A BB	22367.	63.007 PPB		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~~	~~75~~	~~321~~	~~16:03~~	~~13~~	~~0.863~~	~~A BB~~	~~1340.~~	~~1.753 PPB~~		27	CIS-1,3-DICHLOROPROPENE
28	130	309	15:27	13	0.831	A BB	34592.	49.201 PPB		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	0.860	A BB	72206.	49.095 PPB		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~~	~~92.~~	~~0.139 PPB~~		37	4-METHYL-2-PENTANONE
~~38~~	~~43~~	~~419~~	~~20.57~~	~~36~~	~~0.895~~	~~A BB~~	~~171.~~	~~0.319 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	449	22:27	36	0.959	A BB	45461.	53.989 PPB		43	TOLUENE
44	112	470	23:30	36	1.004	A BB	54430.	49.671 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

C114818MDV 3

05/22/90 1743
OWAC -- BES

Sample: L#114818MD CLI#MW-10,20-22'MSD ETR#21422 3.04G
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114818M Client ID: MW-10,20-22'MSD ETR Number: 21422
Submitted by: ADIENV
Weight: 3.040 g

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	18.94	55.00	0.294	0.853	0.34	2	CHLOROMETHANE
3	1:33		0.194							3	BROMOMETHANE
4	2:00	-57*	0.250	1.47	1.25	50.00	0.021	0.850	0.02	4	VINYL CHLORIDE
5	2:45	-45*	0.344	1.26	1.43	55.00	0.017	0.657	0.03	5	CHLOROETHANE
6	4:36	-3	0.575	1.00	6.25	50.00	0.158	1.260	0.13	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	0.950	0.99	63.01	50.00	1.212	0.962	1.26	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	-75*	0.798	1.08	1.75	50.00	0.017	0.493	0.04	27	CIS-1,3-DICHLOROPROPENE
28	15:24	-3	0.830	1.00	49.20	50.00	0.446	0.453	0.98	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	1.00	49.09	50.00	0.930	0.948	0.98	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	-9	0.822	1.01	0.14	50.00	0.002	0.594	0.00	37	4-METHYL-2-PENTANONE
38	20:48	-9	0.891	1.01	0.32	50.00	0.003	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	-3	0.959	1.00	53.99	50.00	0.817	0.757	1.08	43	TOLUENE
44	23:27	-3	1.004	1.00	49.67	50.00	0.978	0.985	0.99	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

PROCEDURE: TCA DIAGNOSTIC REPORT 5/22/90 18:18:42
DATA FILE: C114818MDV
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	13	7	16	306	UMRET1/UMUNK1
2	2	1	0	14	5	1	343	UMRET2/UMUNK2
2	2	1	0	13	5	1	1204	UMRET2/UMUNK3
2	2	1	0	9	4	1	0	UMRET3/UMUNK4
1	1	1	0	8	4	3	0	UMRET4/UMUNK5

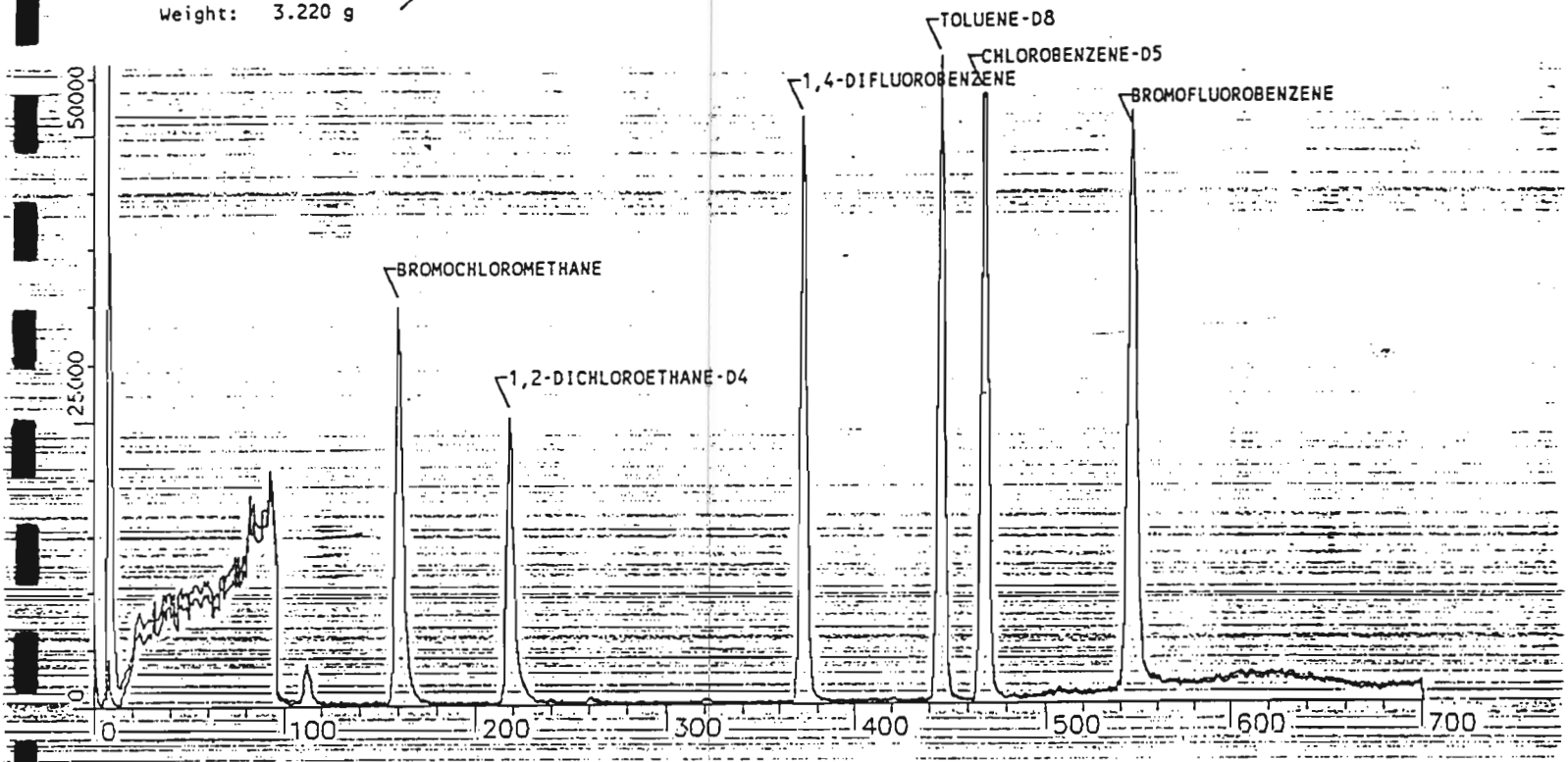
52 COMPOUNDS PROCESSED, 20 FOUND

COMPOUND			SEARCH					SAT	CHRO		
NO	LIB	ENTRY	REF	PRED	SRL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	UM	1	-158	160	160		1	971		128	161	1	1
2	UM	2	-18	39	40	1	4	996		50	40		1
3	UM	3	-30	49						94			
4	UM	4	-40	57	59	2	4	1000		62	59		1
5	UM	5	-55	70	70		1	966		64	70		1
6	UM	6	-89	99	93	-6	1	966		84	93		1
7	UM	7	-113	119						43			
8	UM	8	-112	118						56			
9	UM	9	-125	129						53			
10	UM	10	-122	127	126	-1	1	1000		76			
11	UM	11	-134	137						101			
12	UM	12	-151	151	152	1	1	992		96	152		1
13	UM	53	-144	145						45			
14	UM	13	-371	372	372		1	996		114	372		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	218	-3	1	933		62			
21	UM	19	-217	219	218	-1	1	997		45	218		1
22	UM	20	-224	226	231	5	1	909		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	267						83			
28	UM	26	-291	296						63			
29	UM	27	-297	302	321	19	1	954		75	321		1
30	UM	28	-309	314	309	-5	1	996		130	309		1
31	UM	29	-316	321						129			
32	UM	30	-365	370						98			
33	UM	31	-320	325						97			
34	UM	32	-320	325	320	-5	1	987		78	320		1
35	UM	33	-322	327						75			
36	UM	34	-345	350						63			
37	UM	35	-369	374						173			
38	UM	36	-467	468	468		1	993		117	468		1
39	UM	37	-384	385						43	387		1
40	UM	38	-416	417						43	419		1
41	UM	39	-415	416						83			
42	UM	40	-421	422						164			
43	UM	41	-438	439						56			
44	UM	42	-444	445	445		1	992		98	445		1
45	UM	43	-448	449	449		1	990		92	449		1
46	UM	44	-469	470	470		1	996		112	470		1
47	UM	45	-506	507						106			
48	UM	46	-545	546	546		1	996		95	546		1
49	UM	47	-569	570	570		3	184		104			
50	UM	48	-575	576						106			
51	UM	49	-589	590						106			
52	UM	50	-653	654						146			

C114820V 1

05/22/90 1336
OWAC -- CMP

Sample: L#114820 CLI#7,-3 ETR#21422 3.22GRAMS
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114820 Client ID: 7,-3 ETR Number: 21422 Submitted by: ADIENV
Weight: 3.220 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	19386.	50.000 PPB		1	BROMOCHLOROMETHANE
13	114	372	18:36	13	1.000	A BB	80593.	50.000 PPB		13	1,4-DIFLUOROBENZENE
36	117	468	23:24	36	1.000	A BB	64089	50.000 PPB		36	CHLOROBENZENE-D5
19	65	218	10:54	1	1.362	A BB	35291.	47.390 PPB	94.8	19	1,2-DICHLOROETHANE-D4
42	98	446	22:18	36	0.953	A BB	74357.	48.864 PPB	97.7	42	TOLUENE-D8
46	95	547	27:21	36	1.169	A BB	43375.	61.608 PPB	123.2	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	-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	1.00	47.39	50.00	1.820	1.921	0.95	19	1,2-DICHLOROETHANE-D4
42	22:12	-6	0.951	1.00	48.86	50.00	1.160	1.187	0.98	42	TOLUENE-D8
46	27:15	-6	1.167	1.00	61.61	50.00	0.677	0.549	1.23	46	BROMOFLUOROBENZENE

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

C114820V 2

05/22/90 1336
OWAC -- CMP

Sample: L#114820 CL1#7,-3 ETR#21422 3.22GRAMS
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114820 Client ID: 7,-3 ETR Number: 21422 Submitted by: ADIENV
Weight: 3.220 g

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Rec	No	Name
2	50	22	1.06	1	0.138	A BB	80.	0.242 PPB		2	CHLOROMETHANE
3	94	32	1.36	1	0.200	A BB	80.	0.232 PPB		3	BROMOMETHANE
4	62	44	2:12	1	0.275	A BB	435.	1.320 PPB		4	VINYL CHLORIDE
5	64	53	2.39	1	0.331	A VB	255.	1.001 PPB		5	CHLOROETHANE
6	84	92	4:36	1	0.575	A BB	3149.	6.448 PPB		6	METHYLENE CHLORIDE
7	43	112	5:36	1	0.700	A BB	9320.	61.926 PPB		7	ACETONE
8	NOT FOUND									8	ACROLEIN
9	NOT FOUND									9	ACRYLONITRILE
10	76	127	6.21	1	0.794	A BB	131.	0.116 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	62	219	10.57	1	1.369	A BB	82.	0.109 PPB		18	1,2-DICHLOROETHANE
20	72	226	11.18	1	1.413	A BB	254.	4.964 PPB		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	321	16.03	13	0.863	A BB	887.	0.581 PPB		32	BENZENE
33	NOT FOUND									33	TRANS-1,3-DICHLOROPROPENE
34	NOT FOUND									34	2-CHLOROETHYLVINYLETHER
35	NOT FOUND									35	BROMOFORM
37	43	386	19.18	36	0.825	A BB	67.	0.088 PPB		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	0.959	A BB	502.	0.518 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	146	653	32.39	36	1.395	A BB	151.	0.309 PPB		50	O-DICHLOROBENZENE
51	NOT FOUND									51	CYCLOPENTANE
52	NOT FOUND									52	XYLENE (TOTAL)
53	NOT FOUND									53	2-PROPANOL

C114820V 3

05/22/90 1336
OWAC -- CMP

Sample: L#114820 CL1#7,-3 ETR#21422 3.22GRAMS
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114820 Client ID: 7,-3 ETR Number: 21422 Submitted by: ADIENV
Weight: 3.220 g

No	Ret(L)	Diff	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio	No	Name
2	0:54	-12	0.112	1.22	0.24	55.00	0.004	0.853	0.00	2	CHLOROMETHANE
3	1:33	-3	0.194	1.03	0.23	55.00	0.004	0.979	0.00	3	BROMOMETHANE
4	2:00	-12	0.250	1.10	1.32	50.00	0.022	0.850	0.03	4	VINYL CHLORIDE
5	2:45	6	0.344	0.96	1.00	55.00	0.012	0.657	0.02	5	CHLOROETHANE
6	4:36	0	0.575	1.00	6.45	50.00	0.162	1.260	0.13	6	METHYLENE CHLORIDE
7	5:36	0	0.700	1.00	61.93	50.00	0.481	0.388	1.24	7	ACETONE
8	5:42		0.713							8	ACROLEIN
9	6:21		0.794							9	ACRYLONITRILE
10	6:15	6	0.781	1.02	0.12	50.00	0.007	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	0	1.369	1.00	0.11	50.00	0.004	1.934	0.00	18	1,2-DICHLOROETHANE
20	11:09	-9	1.394	1.01	4.96	50.00	0.013	0.132	0.10	20	2-BUTANONE
21	10:27		0.565							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	6	0.860	1.00	0.50	50.00	0.011	0.940	0.01	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	6	0.822	1.00	0.09	50.00	0.001	0.594	0.00	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	0.52	50.00	0.008	0.757	0.01	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	-3	1.400	1.00	0.31	50.00	0.002	0.382	0.01	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

C114820V$_{27}$

05/22/90 1336
OWAC -- CMP --

Sample: L#114820 CLI#7,-3 ETR#21422 3.22GRAMS
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114820 Client ID: 7,-3 ETR Number: 21422 Submitted by: ADIENV
Weight: 3.220 g

Summary of Tentatively Identified Compounds

Rank	Scan	Dec. Time	En.RIC Height	Est. Amount	Ref	Name
~~1~~	~~8~~	~~0.40~~	~~84095.~~	~~146.5~~	~~1~~	~~UNKNOWN~~ CO_2
9	24	1.20	3483.	6.1	1	UNKNOWN
11	32	1.60	2955.	5.1	1	UNKNOWN
6	40	2.00	3675.	6.4	1	UNKNOWN
8	46	2.30	3535.	6.2	1	UNKNOWN
10	60	3.00	3415.	6.0	1	UNKNOWN
5	68	3.40	4175.	7.3	1	UNKNOWN
7	76	3.80	3543.	6.2	1	UNKNOWN
4	82	4.10	5727.	10.0	1	UNKNOWN
~~3~~	~~93~~	~~4.65~~	~~9215.~~	~~16.1~~	~~1~~	~~UNKNOWN~~ Cl#6
ISTD	160	8.00	28695.	50.0	1	BROMOCHLOROMETHANE
ISTD	372	18.60	35584.	50.0	13	1,4-DIFLUOROBENZENE
ISTD	468	23.40	39227.	50.0	36	CHLOROBENZENE-D5
~~2~~	~~546~~	~~27.30~~	~~46079.~~	~~58.7~~	~~36~~	~~UNKNOWN~~ SS#4

Background noise

PROCEDURE: TCA DIAGNOSTIC REPORT 5/22/90 14:12:10
DATA FILE: C114820V
REFERENCE: UTAB11
NAME LIST: UM INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: UMRET1

STANDARDS PROC	USED	POSS	RMS	PLUS UNKNOWNS PROC	USED	POSS	RMS	LIST NAMES STANDARD/UNKNOWN
1	1	1	0	13	7	24	325	UMRET1/UMUNK1
2	2	1	0	14	4	1	48	UMRET2/UMUNK2
2	2	1	0	13	2	1	0	UMRET2/UMUNK3
2	2	1	0	9	3	1	78	UMRET3/UMUNK4
1	1	1	0	8	3	4	204	UMRET4/UMUNK5

52 COMPOUNDS PROCESSED, 14 FOUND

COMPOUND NO	LIB	ENTRY	SEARCH REF	PRED	SEL	DELTA	PEAKS	SAT FIT	PEAKS	M/Z	CHRO TOP	DELTA	PEAKS
1	UM	1	-158	160	160		1	982		128	160		1
2	UM	2	-18	21	24	3	2	996		50	22	-2	1
3	UM	3	-30	33						94	32		1
4	UM	4	-40	43	44	1	3	981		62	44		1
5	UM	5	-55	58	53	-5	4	990		64	53		1
6	UM	6	-89	92	93	1	1	983		84	92	-1	1
7	UM	7	-113	115	112	-3	1	977		43	112		1
8	UM	8	-112	114						56			
9	UM	9	-125	127						53			
10	UM	10	-122	124	127	3	1	1000		76	127		1
11	UM	11	-134	136						101			
12	UM	12	-151	153						96			
13	UM	53	-144	146						45			
14	UM	13	-371	372	372		1	998		114	372		1
15	UM	51	-160	162						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	219		1
21	UM	19	-217	218	218		1	998		65	218		1
22	UM	20	-224	225	225		1	942		72	226	1	1
23	UM	21	-210	211						101			
24	UM	22	-242	243						97			
25	UM	23	-250	251						117			
26	UM	24	-262	263						43			
27	UM	25	-262	264						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	366						98			
33	UM	31	-320	321						97			
34	UM	32	-320	321						78	321		1
35	UM	33	-322	323						75			
36	UM	34	-345	346						63			
37	UM	35	-369	370						173			
38	UM	36	-467	468	468		1	985		117	468		1
39	UM	37	-384	385						43	386		1
40	UM	38	-416	417						43			
41	UM	39	-415	416						83			
42	UM	40	-421	422						164			
43	UM	41	-438	439						56			
44	UM	42	-444	445	446	1	1	992		98	446		1
45	UM	43	-448	449						92	449		1
46	UM	44	-469	469						112			
47	UM	45	-506	506						106			
48	UM	46	-545	545	546	1	1	992		95	547	1	1
49	UM	47	-569	568	567	-1	4	353		104			
50	UM	48	-575	574						106			
51	UM	49	-589	588						106			
52	UM	50	-653	652						146	653		1

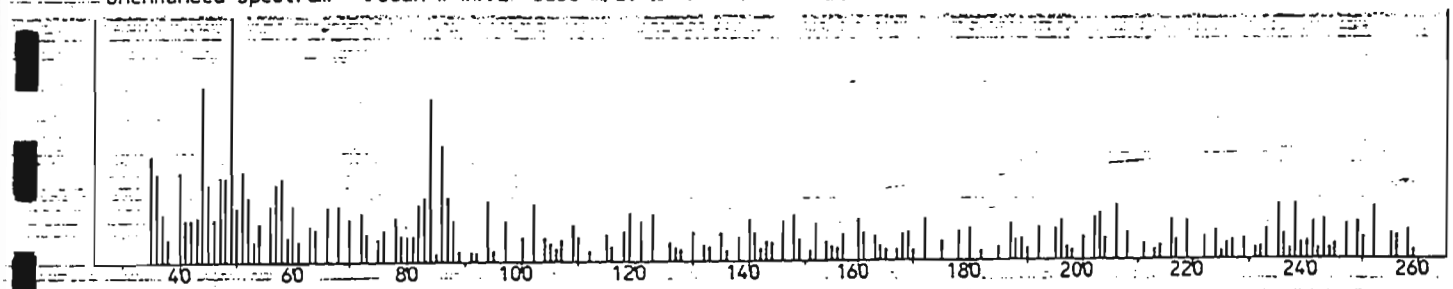
C114820V 8

05/22/90 1336
OWAC -- CMP

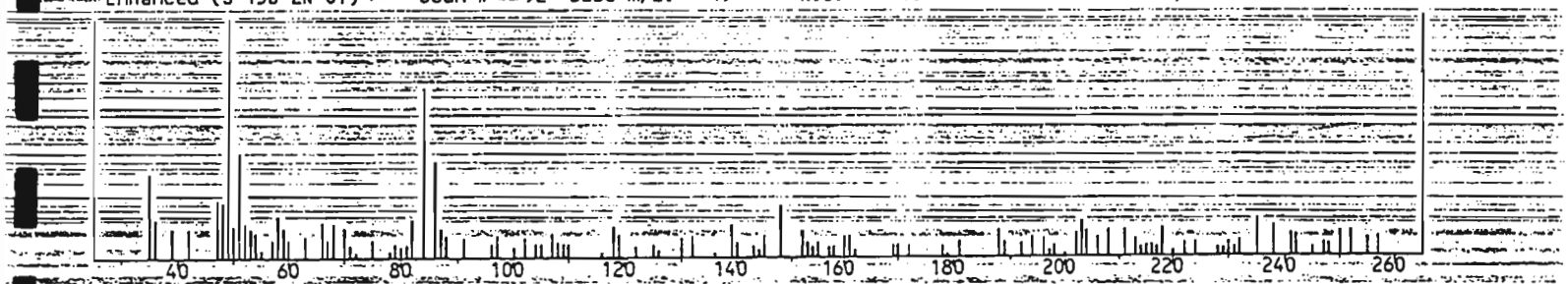
Sample: L#114820 CLI#7,-3 ETR#21422 3.22GRAMS
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114820 Client ID: 7,-3 ETR Number: 21422 Submitted by: ADIENV
Weight: 3.220 g

LIBRARYUM#6 -- METHYLENE CHLORIDE

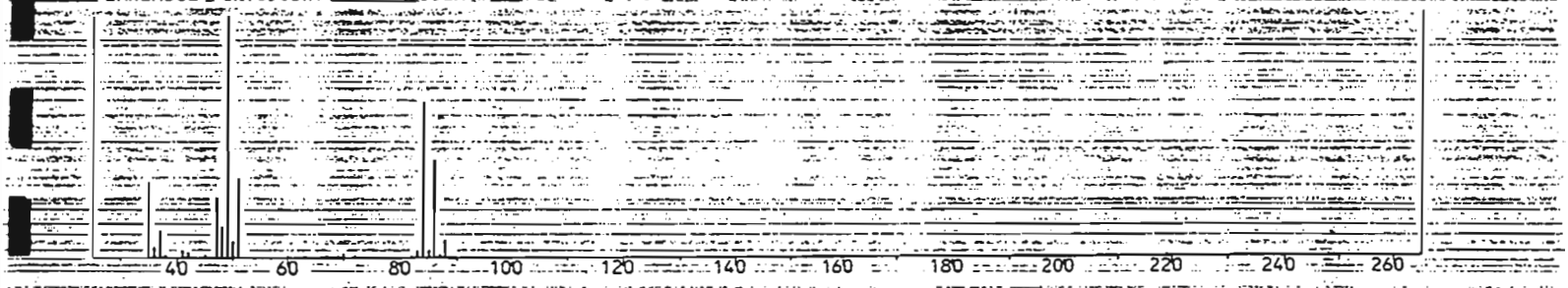
Unenhanced spectrum -- Scan # 92 Base m/z: 49 --- RIC: 19488. Max intensity: 871



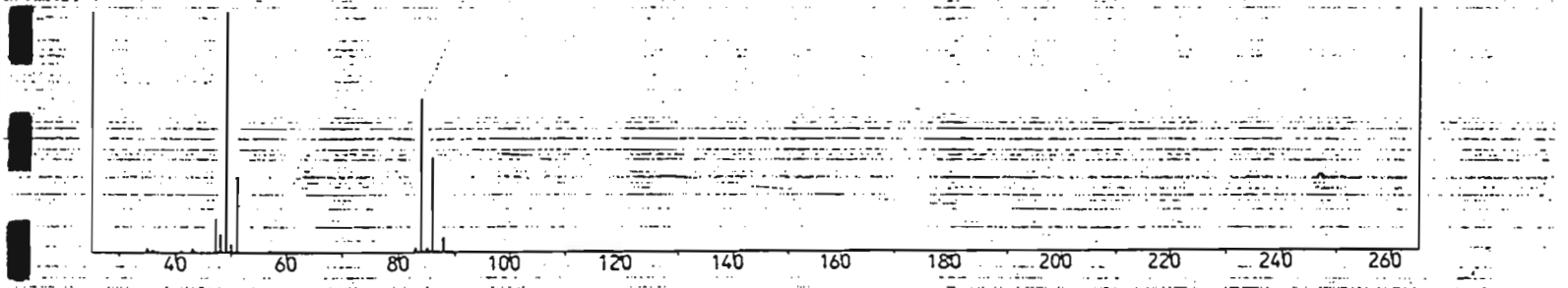
Enhanced (S 15B 2N 0T) -- Scan # 92 Base m/z: 49 --- RIC: 10176. Max intensity: 866



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



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



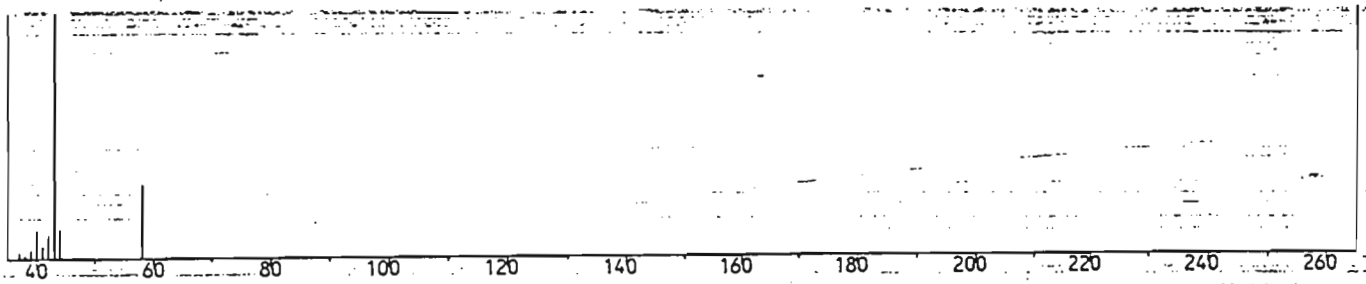
C114820V 9

05/22/90 1336
OWAC -- CMP

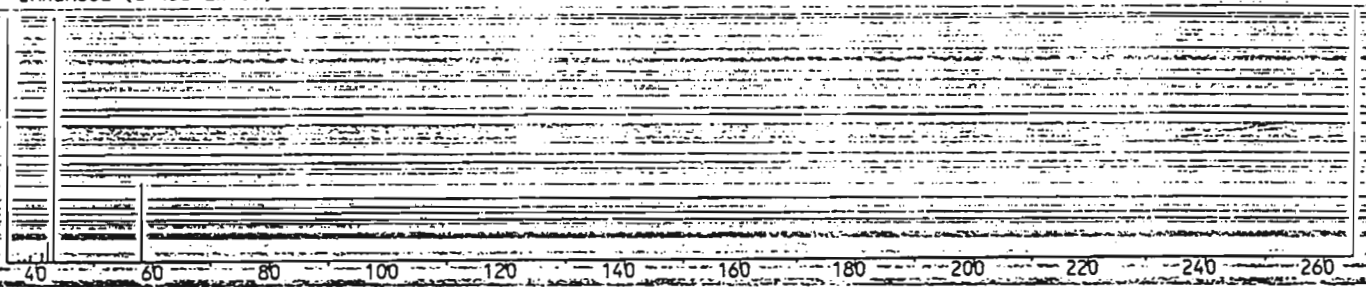
Sample: L#114820 CLI#7,-3 ETR#21422 3.22GRAMS
Conditions: GC/MS OWAC
Method: 8240-4 Matrix: LOW SOIL Lab ID: 114820 Client ID: 7,-3 ETR Number: 21422 Submitted by: ADIENV
Weight: 3.220 g

LIBRARYUM#7 ACETONE

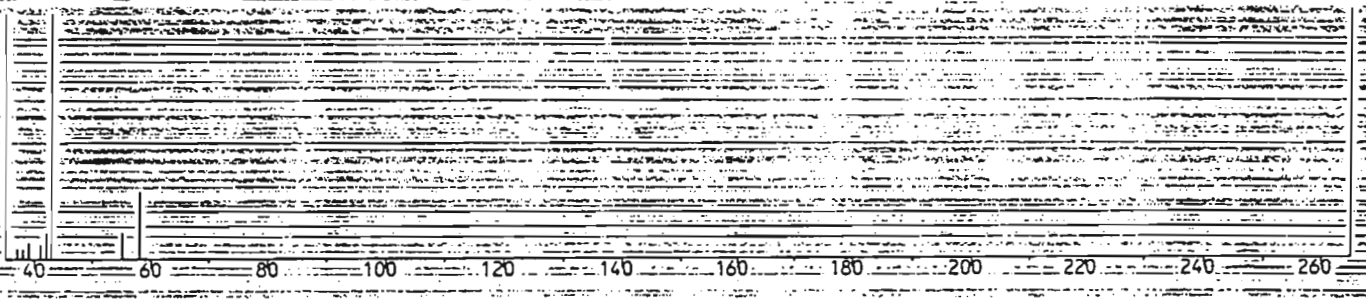
Unenhanced spectrum -- Scan # 112 Base m/z: 43 --- RIC: 3736. Max intensity: 2112



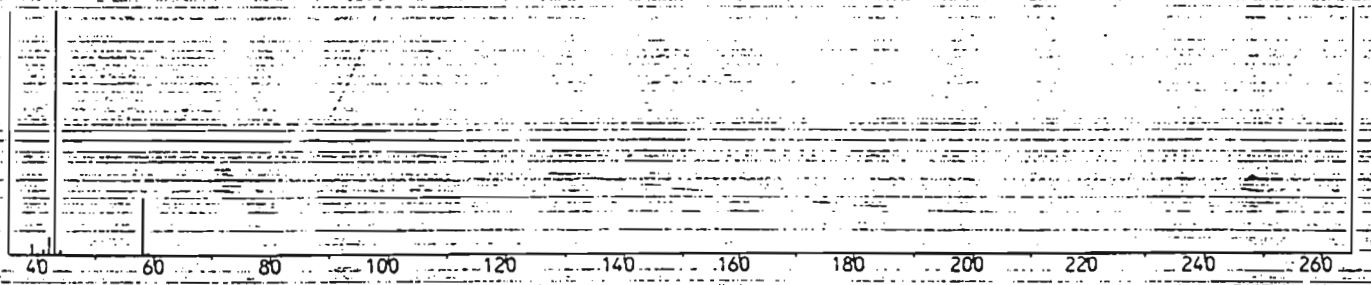
Enhanced (S 15B 2N 0T) -- Scan # 112 Base m/z: 43 --- RIC: 3036. Max intensity: 1940



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



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



SAMPLE HANDLING

aquatec

ENVIRONMENTAL SERVICES

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

F - 0058

CHAIN OF CUSTODY RECORD

Page 1 of 1

000420

Aquatec, Inc.
Green Mountain Drive
Burlington, VT 05403
(802) 658-1074

Client: Adirondack Environmental Project Name: Pole-Lite Sampler(s): (Signature) John Humphrey

Address: 63 Bridge St Project No.:

Plattsburgh, NY Quote No.:

Comments: (518) 563-5726 Collection Date: 5/16/90
Contact - John Humphrey

Lab No.	Collection Time	Comp.	Grab	Matrix	Sample Description	Containers No.	Type/Size	Analysis / Remarks
V-12			V	soil	Duplicate Sample #2 18'-20'	1	125ml	8240
					Trip Blank			

Relinquished	Company	Date/Time Relinquished	Signature	Company	Date/Time Received
John Humphrey	AEA	5/16/90 Polelite 1. AEA shop refrig	1 Chuck Outlaw	Aquatec	5/18/90 1215
Robert M Defore	AEA	5/16/90 AEA to Aquatec	2.		
			3		

(Created July '88)

F - 0058

CHAIN OF CUSTODY RECORD

Page 1 of 1

000421

Aquatec, Inc.
Green Mountain Drive
Burlington, VT 05403
(802) 658-1074

Client: Adirondack Environmental Associates, Inc
Address: 63 Bridge ST
Plattsburgh, New York
Comments: (518) 563-5726
Contact: John Humphrey

Project Name: Pole-Lite
Project No.:
Quote No.:
Collection Date: 5/16/90 - MW-12
5/17/90 - MW-3

Sampler(s): (Signature) John A. Humphrey

Lab No.	Collection Time	Comp.	Grab	Matrix	Sample Description	Containers No.	Type/Size	Analysis / Remarks
W-12			✓	soil	Sample #1 · 5.5' - 7.5'	1	125 ml	Method 8240
J-12			✓	soil	Sample #2 18' - 20'			
W-12	10:50 AM		✓	Soil	Sample #1 · 5.5' - 7.5'	1	125 ml	Method 8240
J-12	11:35 AM		✓	Soil	Sample #2 18' - 20'	1	125 ml	Method 8240
J-13	9:15 AM		✓	Soil	Sample #1 34 - 34.5	1	125 ml	Method 8240
tic	12:00 PM		✓	soil	Sample #1 Septic Tank bottom Sludge	1	125 ml	Method 8240

Relinquished By	Company	Date/Time Relinquished	Signature	Company	Date/Time Received
John A. Humphrey	AEA	5/16/90 Pole-Lite To AEA Shop - Lock Re Gr.	1		
John A. Humphrey	AEA	5/17/90 AEA Shop To Pole Lite To Steve Lar	2	LAG	12:00 PM 5/17/90
	LAG	5/17/90 / 2:40 pm	3		5/17/90 1440

(Created July '88)

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CHAIN OF CUSTODY RECORD

Page 1 of 1

000122

Aquatec, Inc.
Green Mountain Drive
South Burlington, VT 05403
(802) 658-1074

Client: Adirondack Environmental Associates
Address: 63 Bridge Street
Plattsburgh, NY 12901
Comments: Phone 518-563-5226

Project Name: Pole-Lite
Project No.:
Quote No.:
Collection Date: 5/15/90

Sampler(s): (Signature) John W Humphrey

Lab No.	Collection Time	Comp.	Grab	Matrix	Sample Description	Containers No.	Type/Size	Analysis / Remarks
W-9	10:40 AM		✓	soil	Sample 1 5.5' - 7.5'	1	125ml	8240 method
W-9	10:45 AM		✓	soil	Sample 2 10' - 12'	1	125m	8240
J-10	1:35 PM		✓	soil	Sample #1 5.5' - 7.5'	1	125ml	8240
J-10	3:55 PM		✓	soil	Sample #2 20' - 22'	1	125ml	8240
-4	3:30 pm		✓	soil	Grid point 6, -4	1	125ml	8240
7,-3	3 00 pm		✓	soil	Grid point 7, -3	1	125ml	8240
J-11	7:52 AM		✓	soil	Sample #1 5.5 - 7.5'	1	125ml	8240 } collected 5/16/90
J-11	8:25 AM		✓	soil	sample #2 18' - 20'	1	125ml	8240 }

Name	Company	Date/Time Relinquished	Signature	Company	Date/Time Received
John W Humphrey	AEA	5-15-90 - Pole Lite To AEA Shop refrig-loc	1.		
Robert M Duffy	AEA	Pole-Lite To Aquatec 5/16/90	2. J L Banks	Aquatec	5/16/90 1215hrs
			3.		

(Created July '88)

F-0168

AQUATEC, INC. SAMPLE RECEIPT SHEET (SRS)

PROJECT NO. 90000 CASE NO. — ETR NO. 21455 SDG NO. 114814

00423

CIRCLE THE APPROPRIATE RESPONSE

1. Custody Seals on cooler — present/absent (No cooler rec'd) intact/not intact
2. Chain-of-Custody — present/~~absent~~
3. Sample Tags — ~~present~~/absent
   Sample Tag Numbers — listed/not listed on chain-of-custody
4. Client Forms — ~~present~~/absent

DOCUMENT CONTROL NO. —

AIRBILL NO. — (hand delivered)

DATE RECEIVED 5/15/90 @ 1215

SAMPLE CUSTODIAN SIGNATURE Christopher C. Quarles

Date Received (Mo/Day/Yr)	Time (Rec'd)	Chain of Custody Number	Client Sample Number	Sample Tag Number	Assigned Aquatec Lab Number	No. of Vials	No. of Vials w/Air	Information on Custody Records, Traffic Reports, Sample Tags, Agrees	Remarks, Condition of Sample Shipment
5/15/90	1215	N/A	Trip Blank	N/A	114944	1	—	Yes agree	Samples rec'd directly from Client
"	"	"	MW-12 18'-20' Duplicate	"	114945	—	-	X 5/15/90	

AQUATEC, INC. SAMPLE RECEIPT SHEET (SRS)

000124

OJECT NO. 90000 CASE NO. — ETR NO. 21436 SDG NO. 114814

RCLE THE APPROPRIATE RESPONSE

DOCUMENT CONTROL NO. —

Custody Seals on cooler ~~present~~/absent ~~intact/not intact~~

AIRBILL NO. Hand delivered

Chain-of-Custody ~~present~~/absent

Sample Tags ~~present~~/absent
Sample Tag Numbers ~~listed/not listed on chain-of-custody~~

DATE RECEIVED 5/17/90 @ 1440

Client Information Sheets ~~present~~/absent

SAMPLE CUSTODIAN SIGNATURE Cheryl C. Oates

Date eceived (Day/Yr)	Time (Rec'd)	Chain of Custody Number	Client Sample Number	Sample Tag Number	Assigned Aquatec Lab Number	No. of Vials	No. of Vials w/Air	Information on Custody Records, Traffic Reports, Sample Tags, Agrees	Remarks, Condition of Sample Shipment
17/90	1440	002	MW-13 5.5'-7.5'	—	114877	—	—	All agree, except	All samples
"	"	"	MW-13 18'-20'	—	114878	—	—	C-O&G-C states sample	rec'd intact
"	"	"	MW-13 34-34.5	—	114879	—	—	#1 Septic Tank Bottom Sludge while	inside cooler
"	"	"	5/17/90 MW Septic Sludge	—	114880	1	—	label states septic	with ice. Cooler
								sludge. C-O&G-C also	arrived intact with
								states 125ml 8-oz	no custody seals
								Septic Tank bottom sludge	present on outside
								and a 40ml vial was	of cooler. Chain
								rec'd for this sample	of custody was
								(#114880) C-O&G-C states	present
								collection date 5/17/90	
								MW-7, white label	
								states MW-13 and	
								C-O&G-C states sample	
								number MW-13 also	

F-0168

000425

AQUATEC, INC. SAMPLE RECEIPT SHEET (SRS)

OJECT NO. 90000 CASE NO. ——— ETR NO. 21422 SDC NO. 114814

RCLE THE APPROPRIATE RESPONSE

DOCUMENT CONTROL NO. ———

Custody Seals on cooler — present/~~absent~~ ~~intact/not intact~~ N/A

AIRBILL NO. N/A (Cooler was dropped off)

Chain-of-Custody — (present)/absent

Sample Tags — present/~~absent~~

Sample Tag Numbers — ~~listed/not listed on chain-of-custody~~ N/A

DATE RECEIVED 5/16/90 @ 1215

Client Information Sheets — present/~~absent~~

SAMPLE CUSTODIAN SIGNATURE Maureen L. Henry

Date Received (Mo/Day/Yr)	Time (Rec'd)	Chain of Custody Number	Client Sample Number	Sample Tag Number	Assigned Aquatec Lab Number	No. of Vials	No. of Vials w/Air	Information on Custody Records, Traffic Reports, Sample Tags, Agrees	Remarks, Condition of Sample Shipment
5-16-90	1215	None	Trip Blank	N/A	114814	2	1	Please See Attached	Samples were rec'd intact inside cooler upon arrival. Samples were hand-delivered. Chain-of-custody was present. No sample tags were present
"	"	"	MW-9 5.5'-7.5'	"	114815	0	N/A		
"	"	"	MW-9 10'-12'	"	114816	0	"		
"	"	"	MW-10 5.5'-7.5	"	114817	0	"		
"	"	"	MW-10 20'-22'	"	114818	0	"		
"	"	"	6,-4	"	114819	0	"		
"	"	"	7,-3	"	114820	0	"		
"	"	"	MW-11 5.5'-7.5'	"	114821	0	"		
"	"	"	MW-11 18'-20'	"	114822	0	"		

Discrepencies:

Trip Blank is not listed on c of c

Jars Say	C of C Says:
MW 9 5.5' 7.5' Sample 1	MW 9 5.5' 7.5' Sample 1
MW 9 10-12	MW 9 10' 12' Sample 2
MW 10 5.5 7.5 Sample 1	MW 10 5.5' 7.5' Sample #1
MW 10 20-22'	MW 10 20' 22' Sample #2
Sample 6, 4	G 6, 4 Grid Point 6, 4
Sample 7, 3	G 7, 3 Grid Point 7, 3
MW 11 5.5 7.5' Sample #1	MW 11 5.5 7.5' Sample #1
MW 11 18' 20' Sample #2	MW 11 18' 20' Sample #2

Project Name listed on c of c as Pole Lite, one jar says Pole Lite Industry, some say Pole Lite, some say nothing, don't say either

FRN 5-16-

000126

SAMPLE CON[illegible] LCORD

AQUATEC, INC.

[illegible]ults Transmitted: _____

[illegible]osal Date: _____

Adirondack Environmental

ETR Number: 21422

Project No.: 90000

Case Number: _____

Document Control No.: _____

114814-22

LABORATORY SAMPLE NUMBER	REMOVED BY	DATE AND TIME REMOVED	REASON	DATE AND TIME RETURNED
Samples #	114814-22 placed in fridge on 5/16/90 @ 1600 hrs by MRH.			
4814-22 (4 SPS, 5 SPS)	SPS	5/17/90 1300	VOA screening / 9 SPS	5/17/90 1700
4814-22	SPS	5/18/90 11:20	VOA	5/18/90 1700
116-22	CMP	05/22/90 1000	VOA Analysis	05/22/90 2300

000427

SAMPLE CON[illegible] LCORD

AQUATEC, INC.

ETK Number: 21436

Project No.: 90000

Case Number: –

Document Control No.: –

:ults Transmitted: _____

:osal Date: _____

000425

114877-80

LABORATORY SAMPLE NUMBER	REMOVED BY	DATE AND TIME REMOVED	REASON	DATE AND TIME RETURNED
Samples placed in refrigerator on 5/17/90 @1500 by C. Mulgh & C. Dalton				
4877-880	SB	5/22/90 8:45	VOA Screening 1965	5/22/90 ~~08~~ SPP 10:50
~~4822, 20, 18~~	~~CMM~~	~~5/23/90 @ 2100~~	~~VOA Analysis~~	SPP
4877-880	~~SPB~~	5/24/90 @ 10:00	VOA analysis	05/24/90 1500 -

SAMPLE CON[illegible] LCORD

AQUATEC, INC.

[illegible]lts Transmitted: _____

[illegible]osal Date: _____

ETK Number: 21455

Project No.: 80000

Case Number: _____

Document Control No.: _____

114944-5

LABORATORY SAMPLE NUMBER	REMOVED BY	DATE AND TIME REMOVED	REASON	DATE AND TIME RETURNED
Samples placed in refrigerator in 5/18/90 @ 1500 by Charlie A-Dattilo				
114945	SPS	5/22/90 8:45	VOA Screen 10/6 S	5/22/90 10:50

000429