UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: JUL 0 6 1993

Subject: Review of Region 5 Data for **H. O. D. LANDFILL (SF1187)**

From: Charles T. Elly, Director
Region 5 Central Regional Laboratory

To:

Attached are the results for: **H. O. D. LANDFILL**
CRL request number: **SF1187**
Analyzed for: VOA Organics
Results are reported for sample designations: 93ZE33S39, D39, S36, S37, D37, S38, D38; 93ZE06R60, R61, R62, R63, R65 AND R64 (13 SAMPLES)

Results Status:
(X) Acceptable for Use except those qualified data listed below.
(X) Data Qualified, but Acceptable for use. See comments below
( ) Data Unacceptable for Use

(X) Sewer Disposal Criteria Met; Exceptions: none
Comments on Data Quality by Reviewer:

In this case, the sample numbers have two different prefixes. The blanks, R60 - R65, have the prefix 93ZE06-, while the sample numbers, S36 - D39 start with 93ZE33- . Two initial calibrations were performed on May 17 and May 25, 1993 using the Hewlett-Packard MSD #4. An initial calibration was performed on May 25, 1993 using the Finnigan Incos 50 GC/MS. On May 18, 1993 a continuing calibration was performed. Outlier on this cont. calibration were acetone, bromochloromethane, trichloroethene, 1,1-dichloroethene, 1,1,2-trichloroethane, 1,1,2,2-tetrachloroethane and naphtalene; samples analyzed after this calibration were R60, R61, R65, S36. Data should be qualified as estimated 'J' for parameters mentioned above. The second cont. calibration on May 26, 1993 had two outliers 1,1,1-trichloroethane

and carbon tetrachloride; samples analyzed after this calibration were S39, D39, S39MS, S39MSD, S36, 36MS AND S36MSD. Data should be qualified as estimated 'J' for the parameters mentioned above. Samples analyzed on the Finnigan instrument were S37, D37 and D38, acrolein and 2-chloroehtyvinyl ether should be qualified on those samples. Holding time were met for all the samples.

Matrix spike and MSD were acceptable for S36 and S38, sample S39 needed a 10X dilutions, the native sample was positive for toluene, the MS and MSD exceeded the QC limits for toluene. Data are acceptable to be used.

Surrogate data were acceptable for all the samples for all the parameters.

Data are acceptable to be used with qualifiers mentioned above.

Comments by Laboratory Director or Quality Control Coordinator

Review Record for **H. O. D. LANDFILL (SF1187) VOA Organics**

Nidia Fuentes 07/01/93

Task Monitor Date (X) Reviewed ( ) Unreviewed

Chi Yang 7/2/93

Section Chief and Date (✓) Reviewed ( ) Unreviewed

James H. Adams, Jr. 7/6/93

QC Coordinator and Date ( ) Reviewed (✓) Unreviewed

Sylvia Griffin 7-6-93

Data Management Coordinator and Date Received

Date Transmitted JUL 0 6 1993

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
SL - 10C

Received by and Date

Comments:

D93000 1187 TFA 301 DAY 2

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: TOXIC SUBSTANCES

VISION/BRANCH ARCS/SUPERFUND SAMPLE DATE 5/13/93 LAB ARRIVAL DATE 5/14/93 DUE DATE 6/4/93

NUMBER TFA DATA SET NUMBER 1187 STUDY H.O.D. Landfill PRIORITY — CONTRACTOR — E&E

RL LOG NUMBER	SAMPLE DESCRIPTION	WATER VOLATILE ORGANICS SCAN UG/L TOX 17664	WATER ABN ORGANICS SCAN UG/L TOX 17674	SEDIMENTS SOLIDS VOLATILE ORGANICS SCAN MG/KG (DRY) TOX 215622	SEDIMENTS SOLIDS ABN ORGANICS SCAN MG/KG (DRY) TOX 215722	
93ZE33539	L1 + MSD	X	X			LK
↓ D39	L1D	X	X			
93ZE06R64	LFB01 5-031715 716-717	X	X			
93ZE06R65	LTB01					LK
93ZE06R64	LFB01 5-031718		X			

D93000 1187 TFA 301 DAY 2

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: TOXIC SUBSTANCES

DIVISION/BRANCH ARCS/SUPERFUND SAMPLE DATE 5/13/93 LAB ARRIVAL DATE 5/14/93 DUE DATE 6/4/93

DU NUMBER TFA DATA SET NUMBER 1187 STUDY H.O.D. Landfill PRIORITY — CONTRACTOR — E&E

CRL LOG NUMBER	SAMPLE DESCRIPTION	WATER VOLATILE ORGANICS SCAN UG/L TOX 17584	WATER ABN ORGANICS SCAN UG/L TOX 17574	SEDIMENTS SOLIDS VOLATILE ORGANICS SCAN MG/KG (DRY) TOX 215622	SEDIMENTS SOLIDS ABN ORGANICS SCAN MG/KG (DRY) TOX 215723
93ZE33S38	5-031742-3-4-5-6-7-8-9-10-11 SW1+MSD	X	X		
↓ D38	SW1D 5-031753-754-755	X	X		
93ZE06R62	SWFB01 5-031762-763-764	X	X		
93ZE06R63	SWTB01 5-148211 5-148212	X			
93ZE33S38	SW1+MSD 5-031742-3-4		X		
93ZE33D38	SW1 DUPLICATE 5-031756		X		
93ZE06R62	SWFB01 5-031765		X		

Anthony Ingletta

Shipment complete

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB BLANK #1

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.; SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 051893BLK1

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG211

Level: (low/med) LOW Date Received: 05/18/93

% Moisture: not dec. ---- Date Analyzed: 05/18/93

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	3	U
74-87-3	Chloromethane	3	U
75-01-4	Vinyl chloride	3	U
74-83-9	Bromomethane	3	U
75-00-3	Chloroethane	3	U
75-69-4	Trichlorofluoromethane	3	U
107-64-1	Acrolein	10	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	2	U
75-09-2	Methylene chloride	2	U
75-35-4	trans-1,2-Dichloroethene	2	U
107-13-1	Acrylonitrile	10	U
75-34-3	1,1-Dichloroethane	2	U
108-05-4	Vinyl acetate	10	U
594-20-7	2,2-Dichloropropane	2	U
540-59-0	cis-1,2-Dichloroethene	2	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	2	U
67-66-3	Chloroform	2	U
71-55-6	1,1,1-Trichloroethane	2	U
56-23-5	Carbon tetrachloride	2	U
563-58-6	1,1-Dichloropropene	2	U
71-43-2	Benzene	2	U
107-06-2	1,2-Dichloroethane	2	U
79-01-6	Trichloroethene	2	U
78-87-5	1,2-Dichloropropane	2	U
74-95-3	Dibromomethane	2	U
110-75-8	2-Chloroethyl vinylether	10	U
75-27-4	Bromodichloromethane	2	U
10061015	cis-1,3-Dichloropropene	2	U
108-88-3	Toluene	2	U
108-10-1	4-Methyl-2-pentanone	5	U
10061026	trans-1,3-Dichloropropene	2	U

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB BLANK#1

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 051893BLK1

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG211

Level: (low/med) LOW Date Received: 05/18/93

% Moisture: not dec. ---- Date Analyzed: 05/18/93

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
142-28-9	1,3-Dichloropropane	2	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	2	U
108-38-3	m &/or p-Xylene	2	U
95-47-6	o-Xylene	2	U
100-42-5	Styrene	2	U
75-25-2	Bromoform	2	U
98-82-8	Isopropylbenzene	2	U
108-86-1	Bromobenzene	2	U
96-18-4	1,2,3-Trichloropropane	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
103-65-1	n-Propylbenzene	2	U
95-49-8	2-Chlorotoluene	2	U
106-43-4	4-Chlorotoluene	2	U
108-67-8	1,3,5-Trimethylbenzene	2	U
98-06-6	tert-Butylbenzene	2	U
95-63-6	1,2,4-Trimethylbenzene	2	U
135-98-8	sec-Butylbenzene	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
99-87-6	p-Isopropyltoluene	2	U
95-50-1	1,2-Dichlorobenzene	2	U
104-51-8	n-Butylbenzene	2	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	1	J
91-20-3	Naphthalene	2	J
87-68-3	Hexachlorobutadiene	2	U
87-61-6	1,2,3-Trichlorobenzene	1	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

LAB BLANK

Lab Name: H. O. D. LANDFILL Contract:LOCKHEED/ESAT

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 051893BLK1

Sample wt/vol: 5 (g/mL) mL Lab File ID: >AG211

Level: (low/med) LOW Date Received: 5/18/93

% Moisture: not dec.---- Date Analyzed: 5/18/93

Column: CAP Dilution Factor: 1.00000

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.

LAB BLANK #3

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.; SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 052593BLK3

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG248

Level: (low/med) LOW Date Received: 05/25/93

% Moisture: not dec. ---- Date Analyzed: 05/25/93

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	3	U
74-87-3	Chloromethane	3	U
75-01-4	Vinyl chloride	3	U
74-83-9	Bromomethane	3	U
75-00-3	Chloroethane	3	U
75-69-4	Trichlorofluoromethane	3	U
107-64-1	Acrolein	10	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	2	U
75-09-2	Methylene chloride	2	U
75-35-4	trans-1,2-Dichloroethene	2	U
107-13-1	Acrylonitrile	10	U
75-34-3	1,1-Dichloroethane	2	U
108-05-4	Vinyl acetate	10	U
594-20-7	2,2-Dichloropropane	2	U
540-59-0	cis-1,2-Dichloroethene	2	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	2	U
67-66-3	Chloroform	2	U
71-55-6	1,1,1-Trichloroethane	2	U
56-23-5	Carbon tetrachloride	2	U
563-58-6	1,1-Dichloropropene	2	U
71-43-2	Benzene	2	U
107-06-2	1,2-Dichloroethane	2	U
79-01-6	Trichloroethene	2	U
78-87-5	1,2-Dichloropropane	2	U
74-95-3	Dibromomethane	2	U
110-75-8	2-Chloroethyl vinylether	10	U
75-27-4	Bromodichloromethane	2	U
10061015	cis-1,3-Dichloropropene	2	U
108-88-3	Toluene	2	U
108-10-1	4-Methyl-2-pentanone	5	U
10061026	trans-1,3-Dichloropropene	2	U

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB BLANK #3

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.; SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 052593BLK3

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG248

Level: (low/med) LOW Date Received: 05/25/93

% Moisture: not dec. ---- Date Analyzed: 05/25/93

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
142-28-9	1,3-Dichloropropane	2	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	2	U
108-38-3	m &/or p-Xylene	2	U
95-47-6	o-Xylene	2	U
100-42-5	Styrene	2	U
75-25-2	Bromoform	2	U
98-82-8	Isopropylbenzene	2	U
108-86-1	Bromobenzene	2	U
96-18-4	1,2,3-Trichloropropane	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
103-65-1	n-Propylbenzene	2	U
95-49-8	2-Chlorotoluene	2	U
106-43-4	4-Chlorotoluene	2	U
108-67-8	1,3,5-Trimethylbenzene	2	U
98-06-6	tert-Butylbenzene	2	U
95-63-6	1,2,4-Trimethylbenzene	2	U
135-98-8	sec-Butylbenzene	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
99-87-6	p-Isopropyltoluene	2	U
95-50-1	1,2-Dichlorobenzene	2	U
104-51-8	n-Butylbenzene	2	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	2	U
91-20-3	Naphthalene	2	U
87-68-3	Hexachlorobutadiene	2	U
87-61-6	1,2,3-Trichlorobenzene	2	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

LAB BLANK #3

Lab Name: H. O. D. LANDFILL Contract:LOCKHEED/ESAT

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 052593BLK3

Sample wt/vol: 5 (g/mL) mL Lab File ID: >AG248

Level: (low/med) LOW Date Received: 5/25/93

% Moisture: not dec.---- Date Analyzed: 5/25/93

Column: CAP Dilution Factor: 1.00000

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.

LAB BLANK #2

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 052693BLK2

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG256

Level: (low/med) LOW Date Received: 05/26/93

% Moisture: not dec. ---- Date Analyzed: 05/26/93

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	3	U
74-87-3	Chloromethane	3	U
75-01-4	Vinyl chloride	3	U
74-83-9	Bromomethane	3	U
75-00-3	Chloroethane	3	U
75-69-4	Trichlorofluoromethane	3	U
107-64-1	Acrolein	10	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	12	
75-15-0	Carbon disulfide	2	U
75-09-2	Methylene chloride	2	U
75-35-4	trans-1,2-Dichloroethene	2	U
107-13-1	Acrylonitrile	10	U
75-34-3	1,1-Dichloroethane	2	U
108-05-4	Vinyl acetate	10	U
594-20-7	2,2-Dichloropropane	2	U
540-59-0	cis-1,2-Dichloroethene	2	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	2	U
67-66-3	Chloroform	2	U
71-55-6	1,1,1-Trichloroethane	2	U
56-23-5	Carbon tetrachloride	2	U
563-58-6	1,1-Dichloropropene	2	U
71-43-2	Benzene	2	U
107-06-2	1,2-Dichloroethane	2	U
79-01-6	Trichloroethene	2	U
78-87-5	1,2-Dichloropropane	2	U
74-95-3	Dibromomethane	2	U
110-75-8	2-Chloroethyl vinylether	10	U
75-27-4	Bromodichloromethane	2	U
10061015	cis-1,3-Dichloropropene	2	U
108-88-3	Toluene	2	U
108-10-1	4-Methyl-2-pentanone	5	U
10061026	trans-1,3-Dichloropropene	2	U

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB BLANK #2

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 052693BLK2

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG256

Level: (low/med) LOW Date Received: 05/26/93

% Moisture: not dec. ---- Date Analyzed: 05/26/93

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
142-28-9	1,3-Dichloropropane	2	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	2	U
108-38-3	m &/or p-Xylene	2	U
95-47-6	o-Xylene	2	U
100-42-5	Styrene	2	U
75-25-2	Bromoform	2	U
98-82-8	Isopropylbenzene	2	U
108-86-1	Bromobenzene	2	U
96-18-4	1,2,3-Trichloropropane	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
103-65-1	n-Propylbenzene	2	U
95-49-8	2-Chlorotoluene	2	U
106-43-4	4-Chlorotoluene	2	U
108-67-8	1,3,5-Trimethylbenzene	2	U
98-06-6	tert-Butylbenzene	2	U
95-63-6	1,2,4-Trimethylbenzene	2	U
135-98-8	sec-Butylbenzene	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
99-87-6	p-Isopropyltoluene	2	U
95-50-1	1,2-Dichlorobenzene	2	U
104-51-8	n-Butylbenzene	2	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	2	U
91-20-3	Naphthalene	2	U
87-68-3	Hexachlorobutadiene	1	J
87-61-6	1,2,3-Trichlorobenzene	2	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

LAB BLANK #2

Lab Name: H. O. D. LANDFILL Contract:LOCKHEED/ESAT

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 052693BLK2

Sample wt/vol: 5 (g/mL) mL Lab File ID: >AG256

Level: (low/med) LOW Date Received: 5/26/93

% Moisture: not dec.---- Date Analyzed: 5/26/93

Column: CAP Dilution Factor: 1.00000

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.

LAB BLANK #2

Lab Name: H. O. D. LANDFILL Contract: LOCKHEED/ESAT

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 052793BLK2

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG271

Level: (low/med) LOW Date Received: 05/27/93

% Moisture: not dec. ---- Date Analyzed: 05/27/93

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	3	U
74-87-3	Chloromethane	3	U
75-01-4	Vinyl chloride	3	U
74-83-9	Bromomethane	3	U
75-00-3	Chloroethane	3	U
75-69-4	Trichlorofluoromethane	3	U
107-64-1	Acrolein	10	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	10	
75-15-0	Carbon disulfide	2	U
75-09-2	Methylene chloride	2	U
75-35-4	trans-1,2-Dichloroethene	2	U
107-13-1	Acrylonitrile	10	U
75-34-3	1,1-Dichloroethane	2	U
108-05-4	Vinyl acetate	10	U
594-20-7	2,2-Dichloropropane	2	U
540-59-0	cis-1,2-Dichloroethene	2	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	2	U
67-66-3	Chloroform	2	U
71-55-6	1,1,1-Trichloroethane	2	U
56-23-5	Carbon tetrachloride	2	U
563-58-6	1,1-Dichloropropene	2	U
71-43-2	Benzene	2	U
107-06-2	1,2-Dichloroethane	2	U
79-01-6	Trichloroethene	2	U
78-87-5	1,2-Dichloropropane	2	U
74-95-3	Dibromomethane	2	U
110-75-8	2-Chloroethyl vinylether	10	U
75-27-4	Bromodichloromethane	2	U
10061015	cis-1,3-Dichloropropene	2	U
108-88-3	Toluene	2	U
108-10-1	4-Methyl-2-pentanone	5	U
10061026	trans-1,3-Dichloropropene	2	U

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB BLANK #2

Lab Name: H. O. D. LANDFILL Contract: LOCKHEED/ESAT

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 052793BLK2

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG271

Level: (low/med) LOW Date Received: 05/27/93

% Moisture: not dec. ---- Date Analyzed: 05/27/93

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
142-28-9	1,3-Dichloropropane	2	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	2	U
108-38-3	m &/or p-Xylene	2	U
95-47-6	o-Xylene	2	U
100-42-5	Styrene	2	U
75-25-2	Bromoform	2	U
98-82-8	Isopropylbenzene	2	U
108-86-1	Bromobenzene	2	U
96-18-4	1,2,3-Trichloropropane	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
103-65-1	n-Propylbenzene	2	U
95-49-8	2-Chlorotoluene	2	U
106-43-4	4-Chlorotoluene	2	U
108-67-8	1,3,5-Trimethylbenzene	2	U
98-06-6	tert-Butylbenzene	2	U
95-63-6	1,2,4-Trimethylbenzene	2	U
135-98-8	sec-Butylbenzene	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
99-87-6	p-Isopropyltoluene	2	U
95-50-1	1,2-Dichlorobenzene	2	U
104-51-8	n-Butylbenzene	2	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	2	U
91-20-3	Naphthalene	2	U
87-68-3	Hexachlorobutadiene	2	U
87-61-6	1,2,3-Trichlorobenzene	2	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

LAB BLANK #2

Lab Name: H. O. D. LANDFILL Contract:LOCKHEED/ESAT

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 052793BLK2

Sample wt/vol: 5 (g/mL) mL Lab File ID: >AG271

Level: (low/med) LOW Date Received: 5/27/93

% Moisture: not dec.---- Date Analyzed: 5/27/93

Column: CAP Dilution Factor: 1.00000

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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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0525BLK1

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 1187 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 0525BLK1

Sample wt/vol: 20.0 (g/mL) ML Lab File ID: 0525BLK1

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/25/93

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	3	U
74-83-9	Bromomethane	3	U
75-01-4	Vinyl Chloride	3	U
75-00-3	Chloroethane	3	U
75-09-2	Methylene Chloride	1	U
67-64-1	Acetone	7	J
107-02-8	Acrolein	75	U
75-15-0	Carbon Disulfide	2	U
107-13-1	Acrylonitrile	50	U
75-35-4	1,1-Dichloroethene	1	U
75-35-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	2	U
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	Trans-1,3-Dichloropropene	1	U
110-75-8	2-Chloroethylvinylether	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-Pentanone	4	U
591-78-6	2-Hexanone	4	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	2	U
108-38-3	M-Xylene	2	U
95-47-6	O-&/or P-Xylene	2	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0525BLK1

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 1187 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 0525BLK1

Sample wt/vol: _____ (g/mL) ML Lab File ID: 0525BLK1

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

% Moisture: not dec. ____ Date Analyzed: 05/25/93

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0526BLK2

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 1187 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 0526BLK2

Sample wt/vol: 20.0 (g/mL) ML Lab File ID: 0526BLK2

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/26/93

Column: (pack/cap) PACK Dilution Factor: 1

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	3	U
74-83-9	Bromomethane	3	U
75-01-4	Vinyl Chloride	3	U
75-00-3	Chloroethane	3	U
75-09-2	Methylene Chloride	2	
67-64-1	Acetone	50	U
107-02-8	Acrolein	75	U
75-15-0	Carbon Disulfide	2	U
107-13-1	Acrylonitrile	50	U
75-35-4	1,1-Dichloroethene	1	U
75-35-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	2	U
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	Trans-1,3-Dichloropropene	1	U
110-75-8	2-Chloroethylvinylether	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-Pentanone	4	U
591-78-6	2-Hexanone	4	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	2	U
108-38-3	M-Xylene	2	U
95-47-6	O-&/or P-Xylene	2	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0526BLK2

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 1187 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 0526BLK2

Sample wt/vol: _____ (g/mL) ML Lab File ID: 0526BLK2

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

% Moisture: not dec. ____ Date Analyzed: 05/26/93

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93ZE06R60

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE06R60

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG218

Level: (low/med) LOW Date Received: 05/13/93

% Moisture: not dec. ---- Date Analyzed: 05/18/93

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	3	U
74-87-3	Chloromethane	3	U
75-01-4	Vinyl chloride	3	U
74-83-9	Bromomethane	3	U
75-00-3	Chloroethane	3	U
75-69-4	Trichlorofluoromethane	3	U
107-64-1	Acrolein	10	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	24	
75-15-0	Carbon disulfide	2	U
75-09-2	Methylene chloride	2	U
75-35-4	trans-1,2-Dichloroethene	2	U
107-13-1	Acrylonitrile	10	U
75-34-3	1,1-Dichloroethane	2	U
108-05-4	Vinyl acetate	10	U
594-20-7	2,2-Dichloropropane	2	U
540-59-0	cis-1,2-Dichloroethene	2	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	2	U
67-66-3	Chloroform	2	U
71-55-6	1,1,1-Trichloroethane	2	U
56-23-5	Carbon tetrachloride	2	U
563-58-6	1,1-Dichloropropene	2	U
71-43-2	Benzene	2	U
107-06-2	1,2-Dichloroethane	2	U
79-01-6	Trichloroethene	2	U
78-87-5	1,2-Dichloropropane	2	U
74-95-3	Dibromomethane	2	U
110-75-8	2-Chloroethyl vinylether	10	U
75-27-4	Bromodichloromethane	2	U
10061015	cis-1,3-Dichloropropene	2	U
108-88-3	Toluene	2	U
108-10-1	4-Methyl-2-pentanone	5	U
10061026	trans-1,3-Dichloropropene	2	U

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93ZE06R60

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE06R60

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG218

Level: (low/med) LOW Date Received: 05/13/93

% Moisture: not dec. ---- Date Analyzed: 05/18/93

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
142-28-9	1,3-Dichloropropane	2	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	2	U
108-38-3	m &/or p-Xylene	2	U
95-47-6	o-Xylene	2	U
100-42-5	Styrene	2	U
75-25-2	Bromoform	2	U
98-82-8	Isopropylbenzene	2	U
108-86-1	Bromobenzene	2	U
96-18-4	1,2,3-Trichloropropane	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
103-65-1	n-Propylbenzene	2	U
95-49-8	2-Chlorotoluene	2	U
106-43-4	4-Chlorotoluene	2	U
108-67-8	1,3,5-Trimethylbenzene	2	U
98-06-6	tert-Butylbenzene	2	U
95-63-6	1,2,4-Trimethylbenzene	2	U
135-98-8	sec-Butylbenzene	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
99-87-6	p-Isopropyltoluene	2	U
95-50-1	1,2-Dichlorobenzene	2	U
104-51-8	n-Butylbenzene	2	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	2	U
91-20-3	Naphthalene	2	U
87-68-3	Hexachlorobutadiene	2	U
87-61-6	1,2,3-Trichlorobenzene	2	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

93ZE06R60

Lab Name: H. O. D. LANDFILL Contract:LOCKHEED/ESAT

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE06R60

Sample wt/vol: 5 (g/mL) mL Lab File ID: >AG218

Level: (low/med) LOW Date Received: 5/13/93

% Moisture: not dec.---- Date Analyzed: 5/18/93

Column: CAP Dilution Factor: 1.00000

Number TICs found: 1

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	3.58	9	J
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93ZE06R61

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE06R61

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG219

Level: (low/med) LOW Date Received: 05/13/93

% Moisture: not dec. ---- Date Analyzed: 05/18/93

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	3	U
74-87-3	Chloromethane	3	U
75-01-4	Vinyl chloride	3	U
74-83-9	Bromomethane	3	U
75-00-3	Chloroethane	3	U
75-69-4	Trichlorofluoromethane	3	U
107-64-1	Acrolein	10	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	29	
75-15-0	Carbon disulfide	2	U
75-09-2	Methylene chloride	2	U
75-35-4	trans-1,2-Dichloroethene	2	U
107-13-1	Acrylonitrile	10	U
75-34-3	1,1-Dichloroethane	2	U
108-05-4	Vinyl acetate	10	U
594-20-7	2,2-Dichloropropane	2	U
540-59-0	cis-1,2-Dichloroethene	2	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	2	U
67-66-3	Chloroform	2	U
71-55-6	1,1,1-Trichloroethane	2	U
56-23-5	Carbon tetrachloride	2	U
563-58-6	1,1-Dichloropropene	2	U
71-43-2	Benzene	2	U
107-06-2	1,2-Dichloroethane	2	U
79-01-6	Trichloroethene	2	U
78-87-5	1,2-Dichloropropane	2	U
74-95-3	Dibromomethane	2	U
110-75-8	2-Chloroethyl vinylether	10	U
75-27-4	Bromodichloromethane	2	U
10061015	cis-1,3-Dichloropropene	2	U
108-88-3	Toluene	2	U
108-10-1	4-Methyl-2-pentanone	5	U
10061026	trans-1,3-Dichloropropene	2	U

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93ZE06R61

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE06R61

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG219

Level: (low/med) LOW Date Received: 05/13/93

% Moisture: not dec. ---- Date Analyzed: 05/18/93

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
142-28-9	1,3-Dichloropropane	2	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	2	U
108-38-3	m &/or p-Xylene	2	U
95-47-6	o-Xylene	2	U
100-42-5	Styrene	2	U
75-25-2	Bromoform	2	U
98-82-8	Isopropylbenzene	2	U
108-86-1	Bromobenzene	2	U
96-18-4	1,2,3-Trichloropropane	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
103-65-1	n-Propylbenzene	2	U
95-49-8	2-Chlorotoluene	2	U
106-43-4	4-Chlorotoluene	2	U
108-67-8	1,3,5-Trimethylbenzene	2	U
98-06-6	tert-Butylbenzene	2	U
95-63-6	1,2,4-Trimethylbenzene	2	U
135-98-8	sec-Butylbenzene	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
99-87-6	p-Isopropyltoluene	2	U
95-50-1	1,2-Dichlorobenzene	2	U
104-51-8	n-Butylbenzene	2	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	2	U
91-20-3	Naphthalene	2	U
87-68-3	Hexachlorobutadiene	2	U
87-61-6	1,2,3-Trichlorobenzene	2	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

93ZE06R61

Lab Name: H. O. D. LANDFILL Contract: LOCKHEED/ESAT

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE06R61

Sample wt/vol: 5 (g/mL) mL Lab File ID: >AG219

Level: (low/med) LOW Date Received: 5/13/93

% Moisture: not dec.---- Date Analyzed: 5/18/93

Column: CAP Dilution Factor: 1.00000

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	3.56	9	J
2.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93ZE06R62

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE06R62

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG249

Level: (low/med) LOW Date Received: 05/14/93

% Moisture: not dec. ---- Date Analyzed: 05/25/93

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	3	U
74-87-3	Chloromethane	3	U
75-01-4	Vinyl chloride	3	U
74-83-9	Bromomethane	3	U
75-00-3	Chloroethane	3	U
75-69-4	Trichlorofluoromethane	3	U
107-64-1	Acrolein	10	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	88	
75-15-0	Carbon disulfide	2	U
75-09-2	Methylene chloride	2	U
75-35-4	trans-1,2-Dichloroethene	2	U
107-13-1	Acrylonitrile	10	U
75-34-3	1,1-Dichloroethane	2	U
108-05-4	Vinyl acetate	10	U
594-20-7	2,2-Dichloropropane	2	U
540-59-0	cis-1,2-Dichloroethene	2	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	2	U
67-66-3	Chloroform	2	U
71-55-6	1,1,1-Trichloroethane	2	U
56-23-5	Carbon tetrachloride	2	U
563-58-6	1,1-Dichloropropene	2	U
71-43-2	Benzene	2	U
107-06-2	1,2-Dichloroethane	2	U
79-01-6	Trichloroethene	2	U
78-87-5	1,2-Dichloropropane	2	U
74-95-3	Dibromomethane	2	U
110-75-8	2-Chloroethyl vinylether	10	U
75-27-4	Bromodichloromethane	2	U
10061015	cis-1,3-Dichloropropene	2	U
108-88-3	Toluene	2	U
108-10-1	4-Methyl-2-pentanone	5	U
10061026	trans-1,3-Dichloropropene	2	U

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93ZE06R62

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE06R62

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG249

Level: (low/med) LOW Date Received: 05/14/93

% Moisture: not dec. ---- Date Analyzed: 05/25/93

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
142-28-9	1,3-Dichloropropane	2	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	2	U
108-38-3	m &/or p-Xylene	2	U
95-47-6	o-Xylene	2	U
100-42-5	Styrene	2	U
75-25-2	Bromoform	2	U
98-82-8	Isopropylbenzene	2	U
108-86-1	Bromobenzene	2	U
96-18-4	1,2,3-Trichloropropane	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
103-65-1	n-Propylbenzene	2	U
95-49-8	2-Chlorotoluene	2	U
106-43-4	4-Chlorotoluene	2	U
108-67-8	1,3,5-Trimethylbenzene	2	U
98-06-6	tert-Butylbenzene	2	U
95-63-6	1,2,4-Trimethylbenzene	2	U
135-98-8	sec-Butylbenzene	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
99-87-6	p-Isopropyltoluene	2	U
95-50-1	1,2-Dichlorobenzene	2	U
104-51-8	n-Butylbenzene	2	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	2	U
91-20-3	Naphthalene	2	U
87-68-3	Hexachlorobutadiene	2	U
87-61-6	1,2,3-Trichlorobenzene	2	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

93ZE06R62

Lab Name: H. O. D. LANDFILL Contract:LOCKHEED/ESAT

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE06R62

Sample wt/vol: 5 (g/mL) mL Lab File ID: >AG249

Level: (low/med) LOW Date Received: 5/14/93

% Moisture: not dec.---- Date Analyzed: 5/25/93

Column: CAP Dilution Factor: 1.00000

Number TICs found: 0

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

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

EPA SAMPLE NO.

93ZE06R63

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE06R63

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG250

Level: (low/med) LOW Date Received: 05/14/93

% Moisture: not dec. ---- Date Analyzed: 05/25/93

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	3	U
74-87-3	Chloromethane	3	U
75-01-4	Vinyl chloride	3	U
74-83-9	Bromomethane	3	U
75-00-3	Chloroethane	3	U
75-69-4	Trichlorofluoromethane	3	U
107-64-1	Acrolein	10	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	65	
75-15-0	Carbon disulfide	2	U
75-09-2	Methylene chloride	2	U
75-35-4	trans-1,2-Dichloroethene	2	U
107-13-1	Acrylonitrile	10	U
75-34-3	1,1-Dichloroethane	2	U
108-05-4	Vinyl acetate	10	U
594-20-7	2,2-Dichloropropane	2	U
540-59-0	cis-1,2-Dichloroethene	2	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	2	U
67-66-3	Chloroform	2	U
71-55-6	1,1,1-Trichloroethane	2	U
56-23-5	Carbon tetrachloride	2	U
563-58-6	1,1-Dichloropropene	2	U
71-43-2	Benzene	2	U
107-06-2	1,2-Dichloroethane	2	U
79-01-6	Trichloroethene	2	U
78-87-5	1,2-Dichloropropane	2	U
74-95-3	Dibromomethane	2	U
110-75-8	2-Chloroethyl vinylether	10	U
75-27-4	Bromodichloromethane	2	U
10061015	cis-1,3-Dichloropropene	2	U
108-88-3	Toluene	2	U
108-10-1	4-Methyl-2-pentanone	5	U
10061026	trans-1,3-Dichloropropene	2	U

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93ZE06R63

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE06R63

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG250

Level: (low/med) LOW Date Received: 05/14/93

% Moisture: not dec. ---- Date Analyzed: 05/25/93

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
142-28-9	1,3-Dichloropropane	2	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	2	U
108-38-3	m &/or p-Xylene	2	U
95-47-6	o-Xylene	2	U
100-42-5	Styrene	2	U
75-25-2	Bromoform	2	U
98-82-8	Isopropylbenzene	2	U
108-86-1	Bromobenzene	2	U
96-18-4	1,2,3-Trichloropropane	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
103-65-1	n-Propylbenzene	2	U
95-49-8	2-Chlorotoluene	2	U
106-43-4	4-Chlorotoluene	2	U
108-67-8	1,3,5-Trimethylbenzene	2	U
98-06-6	tert-Butylbenzene	2	U
95-63-6	1,2,4-Trimethylbenzene	2	U
135-98-8	sec-Butylbenzene	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
99-87-6	p-Isopropyltoluene	2	U
95-50-1	1,2-Dichlorobenzene	2	U
104-51-8	n-Butylbenzene	2	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	2	U
91-20-3	Naphthalene	2	U
87-68-3	Hexachlorobutadiene	2	U
87-61-6	1,2,3-Trichlorobenzene	2	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

93ZE06R63

Lab Name: H. O. D. LANDFILL Contract:LOCKHEED/ESAT

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE06R63

Sample wt/vol: 5 (g/mL) mL Lab File ID: >AG250

Level: (low/med) LOW Date Received: 5/14/93

% Moisture: not dec.---- Date Analyzed: 5/25/93

Column: CAP Dilution Factor: 1.00000

Number TICs found: 0

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

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

EPA SAMPLE NO.

93ZE06R64

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE06R64

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG251

Level: (low/med) LOW Date Received: 05/14/93

% Moisture: not dec. ---- Date Analyzed: 05/25/93

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	3	U
74-87-3	Chloromethane	3	U
75-01-4	Vinyl chloride	3	U
74-83-9	Bromomethane	3	U
75-00-3	Chloroethane	3	U
75-69-4	Trichlorofluoromethane	3	U
107-64-1	Acrolein	10	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	37	
75-15-0	Carbon disulfide	2	U
75-09-2	Methylene chloride	2	U
75-35-4	trans-1,2-Dichloroethene	2	U
107-13-1	Acrylonitrile	10	U
75-34-3	1,1-Dichloroethane	2	U
108-05-4	Vinyl acetate	10	U
594-20-7	2,2-Dichloropropane	2	U
540-59-0	cis-1,2-Dichloroethene	2	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	2	U
67-66-3	Chloroform	2	U
71-55-6	1,1,1-Trichloroethane	2	U
56-23-5	Carbon tetrachloride	2	U
563-58-6	1,1-Dichloropropene	2	U
71-43-2	Benzene	2	U
107-06-2	1,2-Dichloroethane	2	U
79-01-6	Trichloroethene	2	U
78-87-5	1,2-Dichloropropane	2	U
74-95-3	Dibromomethane	2	U
110-75-8	2-Chloroethyl vinylether	10	U
75-27-4	Bromodichloromethane	2	U
10061015	cis-1,3-Dichloropropene	2	U
108-88-3	Toluene	2	U
108-10-1	4-Methyl-2-pentanone	5	U
10061026	trans-1,3-Dichloropropene	2	U

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93ZE06R64

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE06R64

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG251

Level: (low/med) LOW Date Received: 05/14/93

% Moisture: not dec. ---- Date Analyzed: 05/25/93

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
142-28-9	1,3-Dichloropropane	2	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	2	U
108-38-3	m &/or p-Xylene	2	U
95-47-6	o-Xylene	2	U
100-42-5	Styrene	2	U
75-25-2	Bromoform	2	U
98-82-8	Isopropylbenzene	2	U
108-86-1	Bromobenzene	2	U
96-18-4	1,2,3-Trichloropropane	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
103-65-1	n-Propylbenzene	2	U
95-49-8	2-Chlorotoluene	2	U
106-43-4	4-Chlorotoluene	2	U
108-67-8	1,3,5-Trimethylbenzene	2	U
98-06-6	tert-Butylbenzene	2	U
95-63-6	1,2,4-Trimethylbenzene	2	U
135-98-8	sec-Butylbenzene	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
99-87-6	p-Isopropyltoluene	2	U
95-50-1	1,2-Dichlorobenzene	2	U
104-51-8	n-Butylbenzene	2	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	2	U
91-20-3	Naphthalene	2	U
87-68-3	Hexachlorobutadiene	2	U
87-61-6	1,2,3-Trichlorobenzene	2	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

93ZE06R64

Lab Name: H. O. D. LANDFILL Contract:LOCKHEED/ESAT

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE06R64

Sample wt/vol: 5 (g/mL) mL Lab File ID: >AG251

Level: (low/med) LOW Date Received: 5/14/93

% Moisture: not dec.---- Date Analyzed: 5/18/93

Column: CAP Dilution Factor: 1.00000

Number TICs found: 0

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

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

EPA SAMPLE NO.

93ZE06R65

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE06R65

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG220

Level: (low/med) LOW Date Received: 05/13/93

% Moisture: not dec. ---- Date Analyzed: 05/18/93

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	3	U
74-87-3	Chloromethane	3	U
75-01-4	Vinyl chloride	3	U
74-83-9	Bromomethane	3	U
75-00-3	Chloroethane	3	U
75-69-4	Trichlorofluoromethane	3	U
107-64-1	Acrolein	10	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	31	
75-15-0	Carbon disulfide	2	U
75-09-2	Methylene chloride	2	U
75-35-4	trans-1,2-Dichloroethene	2	U
107-13-1	Acrylonitrile	10	U
75-34-3	1,1-Dichloroethane	2	U
108-05-4	Vinyl acetate	10	U
594-20-7	2,2-Dichloropropane	2	U
540-59-0	cis-1,2-Dichloroethene	2	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	2	U
67-66-3	Chloroform	2	U
71-55-6	1,1,1-Trichloroethane	2	U
56-23-5	Carbon tetrachloride	2	U
563-58-6	1,1-Dichloropropene	2	U
71-43-2	Benzene	2	U
107-06-2	1,2-Dichloroethane	2	U
79-01-6	Trichloroethene	2	U
78-87-5	1,2-Dichloropropane	2	U
74-95-3	Dibromomethane	2	U
110-75-8	2-Chloroethyl vinylether	10	U
75-27-4	Bromodichloromethane	2	U
10061015	cis-1,3-Dichloropropene	2	U
108-88-3	Toluene	2	U
108-10-1	4-Methyl-2-pentanone	5	U
10061026	trans-1,3-Dichloropropene	2	U

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93ZE06R65

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE06R65

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG220

Level: (low/med) LOW Date Received: 05/13/93

% Moisture: not dec. ---- Date Analyzed: 05/18/93

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
142-28-9	1,3-Dichloropropane	2	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	2	U
108-38-3	m &/or p-Xylene	2	U
95-47-6	o-Xylene	2	U
100-42-5	Styrene	2	U
75-25-2	Bromoform	2	U
98-82-8	Isopropylbenzene	2	U
108-86-1	Bromobenzene	2	U
96-18-4	1,2,3-Trichloropropane	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
103-65-1	n-Propylbenzene	2	U
95-49-8	2-Chlorotoluene	2	U
106-43-4	4-Chlorotoluene	2	U
108-67-8	1,3,5-Trimethylbenzene	2	U
98-06-6	tert-Butylbenzene	2	U
95-63-6	1,2,4-Trimethylbenzene	2	U
135-98-8	sec-Butylbenzene	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
99-87-6	p-Isopropyltoluene	2	U
95-50-1	1,2-Dichlorobenzene	2	U
104-51-8	n-Butylbenzene	2	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	2	U
91-20-3	Naphthalene	2	U
87-68-3	Hexachlorobutadiene	2	U
87-61-6	1,2,3-Trichlorobenzene	2	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

93ZE06R65

Lab Name: H. O. D. LANDFILL Contract:LOCKHEED/ESAT

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE06R65

Sample wt/vol: 5 (g/mL) mL Lab File ID: >AG220

Level: (low/med) LOW Date Received: 5/13/93

% Moisture: not dec.---- Date Analyzed: 5/18/93

Column: CAP Dilution Factor: 1.00000

Number TICs found: 1

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	3.56	8	J
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93ZE33S36

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE33S36

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG263

Level: (low/med) LOW Date Received: 05/14/93

% Moisture: not dec. ---- Date Analyzed: 05/26/93

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	3	U
74-87-3	Chloromethane	3	U
75-01-4	Vinyl chloride	3	U
74-83-9	Bromomethane	3	U
75-00-3	Chloroethane	3	U
75-69-4	Trichlorofluoromethane	3	U
107-64-1	Acrolein	10	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	2	U
75-09-2	Methylene chloride	2	U
75-35-4	trans-1,2-Dichloroethene	2	U
107-13-1	Acrylonitrile	10	U
75-34-3	1,1-Dichloroethane	2	U
108-05-4	Vinyl acetate	10	U
594-20-7	2,2-Dichloropropane	2	U
540-59-0	cis-1,2-Dichloroethene	2	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	2	U
67-66-3	Chloroform	2	U
71-55-6	1,1,1-Trichloroethane	2	U
56-23-5	Carbon tetrachloride	2	U
563-58-6	1,1-Dichloropropene	2	U
71-43-2	Benzene	2	U
107-06-2	1,2-Dichloroethane	2	U
79-01-6	Trichloroethene	2	U
78-87-5	1,2-Dichloropropane	2	U
74-95-3	Dibromomethane	2	U
110-75-8	2-Chloroethyl vinylether	10	U
75-27-4	Bromodichloromethane	2	U
10061015	cis-1,3-Dichloropropene	2	U
108-88-3	Toluene	1	J
108-10-1	4-Methyl-2-pentanone	5	U
10061026	trans-1,3-Dichloropropene	2	U

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93ZE33S36

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE33S36

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG263

Level: (low/med) LOW Date Received: 05/14/93

% Moisture: not dec. ---- Date Analyzed: 05/26/93

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
142-28-9	1,3-Dichloropropane	2	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	2	U
108-38-3	m &/or p-Xylene	2	U
95-47-6	o-Xylene	2	U
100-42-5	Styrene	2	U
75-25-2	Bromoform	2	U
98-82-8	Isopropylbenzene	2	U
108-86-1	Bromobenzene	2	U
96-18-4	1,2,3-Trichloropropane	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
103-65-1	n-Propylbenzene	2	U
95-49-8	2-Chlorotoluene	2	U
106-43-4	4-Chlorotoluene	2	U
108-67-8	1,3,5-Trimethylbenzene	2	U
98-06-6	tert-Butylbenzene	2	U
95-63-6	1,2,4-Trimethylbenzene	2	U
135-98-8	sec-Butylbenzene	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
99-87-6	p-Isopropyltoluene	2	U
95-50-1	1,2-Dichlorobenzene	2	U
104-51-8	n-Butylbenzene	2	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	2	U
91-20-3	Naphthalene	2	U
87-68-3	Hexachlorobutadiene	2	U
87-61-6	1,2,3-Trichlorobenzene	2	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

93ZE06S36

Lab Name: H. O. D. LANDFILL Contract:LOCKHEED/ESAT

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE06S36

Sample wt/vol: 5 (g/mL) mL Lab File ID: >AG263

Level: (low/med) LOW Date Received: 5/14/93

% Moisture: not dec.---- Date Analyzed: 5/26/93

Column: CAP Dilution Factor: 1.00000

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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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93ZE33S37D

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 1187 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 93ZE33S37D

Sample wt/vol: 20.0 (g/mL) ML Lab File ID: 93ZE33S37D

Level: (low/med) LOW Date Received: 05/13/93

% Moisture: not dec. Date Analyzed: 05/25/93

Column: (pack/cap) PACK Dilution Factor: 20

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	60	U
74-83-9	Bromomethane	60	U
75-01-4	Vinyl Chloride	60	U
75-00-3	Chloroethane	60	U
75-09-2	Methylene Chloride	20	U
67-64-1	Acetone	93	BJ
107-02-8	Acrolein	1500	U
75-15-0	Carbon Disulfide	40	U
107-13-1	Acrylonitrile	1000	U
75-35-4	1,1-Dichloroethene	20	U
75-35-3	1,1-Dichloroethane	20	U
540-59-0	1,2-Dichloroethene (total)	20	U
67-66-3	Chloroform	20	U
107-06-2	1,2-Dichloroethane	30	U
78-93-3	2-Butanone	400	U
71-55-6	1,1,1-Trichloroethane	20	U
56-23-5	Carbon Tetrachloride	20	U
108-05-4	Vinyl acetate	200	U
75-27-4	Bromodichloromethane	20	U
78-87-5	1,2-Dichloropropane	20	U
10061-01-5	cis-1,3-Dichloropropene	20	U
79-01-6	Trichloroethene	20	U
124-48-1	Dibromochloromethane	20	U
79-00-5	1,1,2-Trichloroethane	20	U
71-43-2	Benzene	20	U
10061-02-6	Trans-1,3-Dichloropropene	20	U
110-75-8	2-Chloroethylvinylether	20	U
75-25-2	Bromoform	20	U
108-10-1	4-Methyl-2-Pentanone	80	U
591-78-6	2-Hexanone	80	U
127-18-4	Tetrachloroethene	20	U
79-34-5	1,1,2,2-Tetrachloroethane	20	U
108-88-3	Toluene	20	U
108-90-7	Chlorobenzene	20	U
100-41-4	Ethylbenzene	20	U
100-42-5	Styrene	40	U
108-38-3	M-Xylene	40	U
95-47-6	O-&/or P-Xylene	40	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

93ZE33S37D

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 1187 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 93ZE33S37D

Sample wt/vol: _____ (g/mL) ML Lab File ID: 93ZE33S37D

Level: (low/med) LOW Date Received: 05/13/93

% Moisture: not dec. ____ Date Analyzed: 05/25/93

Column (pack/cap) PACK Dilution Factor: 20

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93ZE33D37D

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 1187 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 93ZE33D37D

Sample wt/vol: 20.0 (g/mL) ML Lab File ID: 93ZE33D37D

Level: (low/med) LOW Date Received: 05/13/93

% Moisture: not dec. Date Analyzed: 05/25/93

Column: (pack/cap) PACK Dilution Factor: 20

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	60	U
74-83-9	Bromomethane	60	U
75-01-4	Vinyl Chloride	60	U
75-00-3	Chloroethane	60	U
75-09-2	Methylene Chloride	150	
67-64-1	Acetone	98	BJ
107-02-8	Acrolein	1500	U
75-15-0	Carbon Disulfide	40	U
107-13-1	Acrylonitrile	1000	U
75-35-4	1,1-Dichloroethene	20	U
75-35-3	1,1-Dichloroethane	20	U
540-59-0	1,2-Dichloroethene (total)	20	U
67-66-3	Chloroform	20	U
107-06-2	1,2-Dichloroethane	30	U
78-93-3	2-Butanone	400	U
71-55-6	1,1,1-Trichloroethane	20	U
56-23-5	Carbon Tetrachloride	20	U
108-05-4	Vinyl acetate	200	U
75-27-4	Bromodichloromethane	20	U
78-87-5	1,2-Dichloropropane	20	U
10061-01-5	cis-1,3-Dichloropropene	20	U
79-01-6	Trichloroethene	20	U
124-48-1	Dibromochloromethane	20	U
79-00-5	1,1,2-Trichloroethane	20	U
71-43-2	Benzene	20	U
10061-02-6	Trans-1,3-Dichloropropene	20	U
110-75-8	2-Chloroethylvinylether	20	U
75-25-2	Bromoform	20	U
108-10-1	4-Methyl-2-Pentanone	80	U
591-78-6	2-Hexanone	80	U
127-18-4	Tetrachloroethene	20	U
79-34-5	1,1,2,2-Tetrachloroethane	20	U
108-88-3	Toluene	20	U
108-90-7	Chlorobenzene	20	U
100-41-4	Ethylbenzene	20	U
100-42-5	Styrene	40	U
108-38-3	M-Xylene	40	U
95-47-6	O-&/or P-Xylene	40	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

93ZE33D37D

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 1187 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 93ZE33D37D

Sample wt/vol: _____ (g/mL) ML Lab File ID: 93ZE33D37D

Level: (low/med) LOW Date Received: 05/13/93

% Moisture: not dec. ____ Date Analyzed: 05/25/93

Column (pack/cap) PACK Dilution Factor: 20

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93ZE33S38

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.: SF1191 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE33S38

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG252

Level: (low/med) LOW Date Received: 05/14/93

% Moisture: not dec. ---- Date Analyzed: 05/25/93

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	3	U
74-87-3	Chloromethane	3	U
75-01-4	Vinyl chloride	3	U
74-83-9	Bromomethane	3	U
75-00-3	Chloroethane	3	U
75-69-4	Trichlorofluoromethane	3	U
107-64-1	Acrolein	10	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	17	
75-15-0	Carbon disulfide	2	U
75-09-2	Methylene chloride	2	U
75-35-4	trans-1,2-Dichloroethene	2	U
107-13-1	Acrylonitrile	10	U
75-34-3	1,1-Dichloroethane	2	U
108-05-4	Vinyl acetate	10	U
594-20-7	2,2-Dichloropropane	2	U
540-59-0	cis-1,2-Dichloroethene	2	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	2	U
67-66-3	Chloroform	2	U
71-55-6	1,1,1-Trichloroethane	2	U
56-23-5	Carbon tetrachloride	2	U
563-58-6	1,1-Dichloropropene	2	U
71-43-2	Benzene	2	U
107-06-2	1,2-Dichloroethane	2	U
79-01-6	Trichloroethene	2	U
78-87-5	1,2-Dichloropropane	2	U
74-95-3	Dibromomethane	2	U
110-75-8	2-Chloroethyl vinylether	10	U
75-27-4	Bromodichloromethane	2	U
10061015	cis-1,3-Dichloropropene	2	U
108-88-3	Toluene	2	U
108-10-1	4-Methyl-2-pentanone	5	U
10061026	trans-1,3-Dichloropropene	2	U

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93ZE33S38

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE33S38

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG252

Level: (low/med) LOW Date Received: 05/14/93

% Moisture: not dec. ---- Date Analyzed: 05/25/93

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
142-28-9	1,3-Dichloropropane	2	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	2	U
108-38-3	m &/or p-Xylene	2	U
95-47-6	o-Xylene	2	U
100-42-5	Styrene	2	U
75-25-2	Bromoform	2	U
98-82-8	Isopropylbenzene	2	U
108-86-1	Bromobenzene	2	U
96-18-4	1,2,3-Trichloropropane	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
103-65-1	n-Propylbenzene	2	U
95-49-8	2-Chlorotoluene	2	U
106-43-4	4-Chlorotoluene	2	U
108-67-8	1,3,5-Trimethylbenzene	2	U
98-06-6	tert-Butylbenzene	2	U
95-63-6	1,2,4-Trimethylbenzene	2	U
135-98-8	sec-Butylbenzene	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
99-87-6	p-Isopropyltoluene	2	U
95-50-1	1,2-Dichlorobenzene	2	U
104-51-8	n-Butylbenzene	2	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	2	U
91-20-3	Naphthalene	2	U
87-68-3	Hexachlorobutadiene	2	U
87-61-6	1,2,3-Trichlorobenzene	2	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

93ZE33S38

Lab Name: H. O. D. LANDFILL Contract:LOCKHEED/ESAT

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE33S38

Sample wt/vol: 5 (g/mL) mL Lab File ID: >AG252

Level: (low/med) LOW Date Received: 5/14/93

% Moisture: not dec.---- Date Analyzed: 5/25/93

Column: CAP Dilution Factor: 1.00000

Number TICs found: 0

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

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

EPA SAMPLE NO.

93ZE33D38

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 1187 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 93ZE33D38

Sample wt/vol: 20.0 (g/mL) ML Lab File ID: 93ZE33D38

Level: (low/med) LOW Date Received: 05/13/93

% Moisture: not dec. Date Analyzed: 05/26/93

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	3	U
74-83-9	Bromomethane	3	U
75-01-4	Vinyl Chloride	3	U
75-00-3	Chloroethane	3	U
75-09-2	Methylene Chloride	1	U
67-64-1	Acetone	1	J
107-02-8	Acrolein	75	U
75-15-0	Carbon Disulfide	2	U
107-13-1	Acrylonitrile	50	U
75-35-4	1,1-Dichloroethene	1	U
75-35-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	2	U
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	Trans-1,3-Dichloropropene	1	U
110-75-8	2-Chloroethylvinylether	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-Pentanone	4	U
591-78-6	2-Hexanone	4	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	2	U
108-38-3	M-Xylene	2	U
95-47-6	O-&/or P-Xylene	2	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

93ZE33D38

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 1187 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 93ZE33D38

Sample wt/vol: _____ (g/mL) ML Lab File ID: 93ZE33D38

Level: (low/med) LOW Date Received: 05/13/93

% Moisture: not dec. ____ Date Analyzed: 05/26/93

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93ZE33S39DL1

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE33S39DL1

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG258

Level: (low/med) LOW Date Received: 05/13/93

% Moisture: not dec. ---- Date Analyzed: 05/26/93

Column: (pack/cap) CAP Dilution Factor: 10

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	30	U
74-87-3	Chloromethane	30	U
75-01-4	Vinyl chloride	30	U
74-83-9	Bromomethane	30	U
75-00-3	Chloroethane	30	U
75-69-4	Trichlorofluoromethane	30	U
107-64-1	Acrolein	100	U
75-35-4	1,1-Dichloroethene	20	U
67-64-1	Acetone	1700	BD
75-15-0	Carbon disulfide	20	U
75-09-2	Methylene chloride	53	D
75-35-4	trans-1,2-Dichloroethene	20	U
107-13-1	Acrylonitrile	100	U
75-34-3	1,1-Dichloroethane	20	U
108-05-4	Vinyl acetate	100	U
594-20-7	2,2-Dichloropropane	20	U
540-59-0	cis-1,2-Dichloroethene	210	D
78-93-3	2-Butanone	4500	D
74-97-5	Bromochloromethane	20	U
67-66-3	Chloroform	20	U
71-55-6	1,1,1-Trichloroethane	20	U
56-23-5	Carbon tetrachloride	20	U
563-58-6	1,1-Dichloropropene	20	U
71-43-2	Benzene	23	D
107-06-2	1,2-Dichloroethane	20	U
79-01-6	Trichloroethene	23	D
78-87-5	1,2-Dichloropropane	20	U
74-95-3	Dibromomethane	20	U
110-75-8	2-Chloroethyl vinylether	100	U
75-27-4	Bromodichloromethane	20	U
10061015	cis-1,3-Dichloropropene	20	U
108-88-3	Toluene	830	D
108-10-1	4-Methyl-2-pentanone	64	D
10061026	trans-1,3-Dichloropropene	20	U

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93ZE33S39DL1

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE33S39DL1

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG258

Level: (low/med) LOW Date Received: 05/13/93

% Moisture: not dec. ---- Date Analyzed: 05/26/93

Column: (pack/cap) CAP Dilution Factor: 10

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	44	D
79-00-5	1,1,2-Trichloroethane	20	U
142-28-9	1,3-Dichloropropane	20	U
591-78-6	2-Hexanone	50	U
124-48-1	Dibromochloromethane	20	U
106-93-4	1,2-Dibromoethane	20	U
108-90-7	Chlorobenzene	11	JD
630-20-6	1,1,1,2-Tetrachloroethane	20	U
100-41-4	Ethylbenzene	130	D
108-38-3	m &/or p-Xylene	270	D
95-47-6	o-Xylene	93	D
100-42-5	Styrene	27	D
75-25-2	Bromoform	20	U
98-82-8	Isopropylbenzene	20	U
108-86-1	Bromobenzene	20	U
96-18-4	1,2,3-Trichloropropane	20	U
79-34-5	1,1,2,2-Tetrachloroethane	20	U
103-65-1	n-Propylbenzene	20	U
95-49-8	2-Chlorotoluene	20	U
106-43-4	4-Chlorotoluene	20	U
108-67-8	1,3,5-Trimethylbenzene	19	JD
98-06-6	tert-Butylbenzene	20	U
95-63-6	1,2,4-Trimethylbenzene	29	D
135-98-8	sec-Butylbenzene	20	U
541-73-1	1,3-Dichlorobenzene	20	U
106-46-7	1,4-Dichlorobenzene	29	D
99-87-6	p-Isopropyltoluene	23	D
95-50-1	1,2-Dichlorobenzene	20	U
104-51-8	n-Butylbenzene	20	U
96-12-8	1,2-Dibromo-3-chloropropane	20	U
120-82-1	1,2,4-Trichlorobenzene	20	U
91-20-3	Naphthalene	20	D
87-68-3	Hexachlorobutadiene	20	U
87-61-6	1,2,3-Trichlorobenzene	20	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

93ZE33S39DL1

Lab Name: H. O. D. LANDFILL Contract:LOCKHEED/ESAT

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE33S39DL1

Sample wt/vol: 5 (g/mL) mL Lab File ID: >AG258

Level: (low/med) LOW Date Received: 5/13/93

% Moisture: not dec.---- Date Analyzed: 5/26/93

Column: CAP Dilution Factor: 1.00000

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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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93ZE33D39DL1

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE33D39DL1

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG259

Level: (low/med) LOW Date Received: 05/14/93

% Moisture: not dec. ---- Date Analyzed: 05/26/93

Column: (pack/cap) CAP Dilution Factor: 10

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	30	U
74-87-3	Chloromethane	30	U
75-01-4	Vinyl chloride	30	U
74-83-9	Bromomethane	30	U
75-00-3	Chloroethane	30	U
75-69-4	Trichlorofluoromethane	30	U
107-64-1	Acrolein	100	U
75-35-4	1,1-Dichloroethene	20	U
67-64-1	Acetone	1900	BD
75-15-0	Carbon disulfide	20	U
75-09-2	Methylene chloride	55	D
75-35-4	trans-1,2-Dichloroethene	20	U
107-13-1	Acrylonitrile	100	U
75-34-3	1,1-Dichloroethane	20	U
108-05-4	Vinyl acetate	100	U
594-20-7	2,2-Dichloropropane	20	U
540-59-0	cis-1,2-Dichloroethene	220	D
78-93-3	2-Butanone	5000	D
74-97-5	Bromochloromethane	20	U
67-66-3	Chloroform	20	U
71-55-6	1,1,1-Trichloroethane	20	U
56-23-5	Carbon tetrachloride	20	U
563-58-6	1,1-Dichloropropene	20	U
71-43-2	Benzene	24	D
107-06-2	1,2-Dichloroethane	20	U
79-01-6	Trichloroethene	25	D
78-87-5	1,2-Dichloropropane	20	U
74-95-3	Dibromomethane	20	U
110-75-8	2-Chloroethyl vinylether	100	U
75-27-4	Bromodichloromethane	20	U
10061015	cis-1,3-Dichloropropene	20	U
108-88-3	Toluene	880	D
108-10-1	4-Methyl-2-pentanone	82	D
10061026	trans-1,3-Dichloropropene	20	U

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93ZE33D39DL1

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE33D39DL1

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG259

Level: (low/med) LOW Date Received: 05/14/93

% Moisture: not dec. ---- Date Analyzed: 05/26/93

Column: (pack/cap) CAP Dilution Factor: 10

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	44	D
79-00-5	1,1,2-Trichloroethane	20	U
142-28-9	1,3-Dichloropropane	20	U
591-78-6	2-Hexanone	50	U
124-48-1	Dibromochloromethane	20	U
106-93-4	1,2-Dibromoethane	20	U
108-90-7	Chlorobenzene	11	JD
630-20-6	1,1,1,2-Tetrachloroethane	20	U
100-41-4	Ethylbenzene	130	D
108-38-3	m &/or p-Xylene	280	D
95-47-6	o-Xylene	98	D
100-42-5	Styrene	35	D
75-25-2	Bromoform	20	U
98-82-8	Isopropylbenzene	20	U
108-86-1	Bromobenzene	20	U
96-18-4	1,2,3-Trichloropropane	20	U
79-34-5	1,1,2,2-Tetrachloroethane	20	U
103-65-1	n-Propylbenzene	20	U
95-49-8	2-Chlorotoluene	20	U
106-43-4	4-Chlorotoluene	20	U
108-67-8	1,3,5-Trimethylbenzene	20	JD
98-06-6	tert-Butylbenzene	20	U
95-63-6	1,2,4-Trimethylbenzene	27	D
135-98-8	sec-Butylbenzene	20	U
541-73-1	1,3-Dichlorobenzene	20	U
106-46-7	1,4-Dichlorobenzene	28	D
99-87-6	p-Isopropyltoluene	22	D
95-50-1	1,2-Dichlorobenzene	20	U
104-51-8	n-Butylbenzene	20	U
96-12-8	1,2-Dibromo-3-chloropropane	20	U
120-82-1	1,2,4-Trichlorobenzene	20	U
91-20-3	Naphthalene	23	D
87-68-3	Hexachlorobutadiene	20	U
87-61-6	1,2,3-Trichlorobenzene	20	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

93ZE33D39DL1

Lab Name: H. O. D. LANDFILL Contract:LOCKHEED/ESAT

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE33D39DL1

Sample wt/vol: 5 (g/mL) mL Lab File ID: >AG258

Level: (low/med) LOW Date Received: 5/14/93

% Moisture: not dec.---- Date Analyzed: 5/26/93

Column: CAP Dilution Factor: 1.00000

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
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LOCKHEED ESAT CONTRACT
DATA SET CUSTODY TRANSFER FORM

DATA SET NUMBER SF1187 CHARGE NUMBER 232-51-104

SITE NAME: H.O.D. LANDFILL TID NUMBER 05-93-05-10

PARAMETER: VOA MATRIX: Water

SF DU/ACT NO: TFA 301 Y ____ /C ____

SAMPLE NUMBERS: 93ZE06R60, -R61, -R62, -R63, -R64 and -R65.
93ZE33S36, -S37, -D37, -S38, -D38, -S39 and -D39.

NUMBER OF SAMPLES: 13

ESAT APPROVALS:

Anthony Guglotta 6/17/93
Analyst Date

Kelly M. Head 6/25/93
Task Group Leader Date

Denis Kranz 6/24/93
QA/QC Coordinator Date

Norm Miller 6-24-93
ESAT Team Manager Date

COMMENTS: ____

The above identified data set was transferred from ESAT custody to the custody of the U.S. EPA Region V Central Regional Laboratory in its entirety on the indicated date relinquished.

Kelly M. Head 6/24/93
Relinquished by Date

Nidia Fuentes 6/24/93
Received by Date

EPA APPROVALS:

Nidia Fuentes 7/1/93
EPA Task Monitor Date

[✓] Reviewed
[ ] Unreviewed
[ ] Accepted
[ ] Rejected
[ ] Returned: 7/1/93
Date

COMMENTS: Received packaged 6/24/93 at 3:30 P.M. ESAT gave back next day at 8:30 A.M. to make fotocopy and returned back around 2:30 P.M. 6/25/93.

[✓] Reviewed [ ] Unreviewed

Section Chief Date 7/2/93

ESAT DPO 7.2.93
Date

____/____/____
DATA COORDINATOR/RECD/TRANSMTD

A COPY OF THIS CUSTODY TRANSFER FORM WITH A RECEIVED BY EPA SIGNATURE IS TO BE FILED WITH THE AOC IN THE TID FILE. THE ORIGINAL CUSTODY TRANSFER ACCOMPANIES THE DATA SET TO BE APPROVED BY THE EPA AND A COMPLETED COPY RETURNED TO ESAT.

CASE NARRATIVE

Method Numbers: 624NS & 624VOC Site Name: H. O. D. Landfill

Date Generated: June 15, 1993 Charge Number: 232-51-104

Author: Ziyad A. Rajabi TID Number: 05-93-05-10

Case: **SF1187 VOA**

1. CASE DESCRIPTION

This data set consists of thirteen (13) water samples analyzed for volatiles (VOA) by GC/MS using EPA Low-Level CRL Methods 624NS and 624VOC.

In this case, the sample numbers have two different prefixes. The blanks, R60 - R65, have the prefix ***93ZE06-***, while the sample numbers (S36 - D39) start with ***93ZE33-***. Samples 93ZE06R60, -R61, -R65, 93ZE33S36, -S37, -D37, -S39, and -D39 were collected on May 13, 1993 and received at the CRL on May 14, 1993. Samples 93ZE06R62, -R63, -R64, 93ZE33S38, and -D38 were collected on May 14, 1993 and received at the CRL on May 15, 1993. Samples 93ZE06R61, -R63 and -R65 were designated as the trip blanks, and -R60, -R62 and -R64 are the field blanks. Due to time constraints and supplies availability, the samples were analyzed on the Hewlett-Packard HP MSD # 4 and the Finnigan Incos 50 GC/MS. The following samples were analyzed on the HP MSD#4: 93ZE06R60, -R61, -R62, -R63, -R64, -R65, 93ZE33S36, -S37, -D37, -S38, -D38, -S39, and -D39. Samples 93ZE33S37, -D37, and -D38 were analyzed on the Finnigan Incos 50.

The samples, method blanks, and spike samples were analyzed between May 18-27, 1993. Prior to analysis, all samples, method blanks, and matrix spikes were spiked with VOA internal standards and surrogates.

Two initial calibrations were performed on May 17 and May 25, 1993 using the Hewlett-Packard HP MSD #4. An initial calibration was performed on May 25, 1993 using the Finnigan Incos 50 GC/MS.

Samples S37 and S39 were observed to foam during the purging process. An analysis was completed on S37 (HP MSD#4 file >AG222), but no internal standards were detected, and the results were rejected. The original analysis of sample S39 was aborted during the purging process, and data were not

acquired. So, samples S37 and S39, and their duplicates, D37 and D39, were reanalyzed at 10X dilutions. The matrix spikes of sample S39 were also analyzed at 10X dilutions. No other samples required dilutions.

An unknown tentatively identified compound (TIC) at 3.6 minutes was detected in samples R60, R61 and R65. This compound coeluted with CO_2; therefore, areas from the total ion chromatogram were not used. Instead, mass chromatograms of the main ion (m/z 43) of the TIC and of the quantitation ion of the first internal standard were used to estimate the concentrations.

2. INSTRUMENT TUNING

The tuning criteria for 50 ng of BFB was met on May 17, May 18, May 25, May 26 and May 27, 1993 using the HP MSD # 4. All samples and calibration standards were injected within 12 hours of the BFB injection time. (FORM V)

The tuning criteria for 50 ng of BFB was met on May 25 and May 26, 1993 using the Finnigan Incos 50. All samples and calibration standards were injected within 12 hours of the BFB injection time. (FORM V)

3. INITIAL CALIBRATIONS

Two initial calibrations at 5, 25, 50, 100, and 150 µg/L levels were performed using the HP MSD#4. The first initial calibration was performed on May 17, 1993. All analytes met the requirements for percent relative standard deviation (%RSD < 35%) except for 1,1,2-trichloroethane (%RSD = 40.0). The second initial calibration was performed on May 25, 1993. All analytes met the requirements for percent relative standard deviation (%RSD < 35%). (FORMS VI)

An initial calibration at 5, 10, 15, 20, and 25 µg/L levels was performed on May 25, 1993 using the Finnigan Incos 50 GC/MS. All analytes met the requirements for percent relative standard deviation (%RSD < 35%) and minimum response factor (RF > 0.05) except for acrolein (RF = 0.003) and 2-chloroethyl vinyl ether (%RSD = 68.5). (FORM VI)

4. CONTINUING CALIBRATIONS

Three continuing calibrations at 50 µg/L were analyzed using the HP MSD #4. The first continuing calibration was performed

on May 18, 1993. All analytes met the requirements for percent deviation (%D < 30%) except for acetone (%D = 49.5), 1,1-dichloroethene (%D = 76.4), bromochloromethane (%D = 30.7), trichloroethene (%D = 36.7), 1,1,2-trichloroethane (%D = 34.3), 1,1,2,2-tetrachloroethane (%D = 50.4), and naphthalene (%D = 33.6). The second continuing calibration was performed on May 26, 1993. All analytes met the requirements for percent deviation (%D < 30%) except for 1,1,1-trichloroethane (%D = 38.4) and carbon tetrachloride (%D = 42.0). The third continuing calibration was performed on May 27, 1993. All analytes met the requirements for percent deviation (%D < 30%). (FORMS VII)

One continuing calibration at 15 µg/L was analyzed on May 26, 1993 using the Finnigan Incos 50 GC/MS. All analytes met the requirements for percent deviation (%D < 30%) and minimum response factor (RF > 0.05) except for acrolein (RF = 0.002 and %D = 33.3). (FORM VII)

5. QUALITY CONTROL

a. Holding Time Summary

All samples were analyzed within the fourteen-day holding time from the date of collection.

b. Analysis Summary

All standards, samples, method blanks and matrix spike samples were analyzed in a 12-hour period from the injections of BFB.

c. Surrogate Recovery Summary

All surrogate recoveries were within the QC limit. (FORM II)

d. Internal Standard Area and Retention Time Summary

All internal standard areas and retention times were within the QC limits. (FORM VIII)

e. Matrix Spike Recovery Summary

On the HP MSD#4, matrix spikes were performed on samples 93ZE33S36, S38, and S39. All recoveries and relative percent deviations (RPDs) in the MS and MSD of S36 and S38 were within QC limits. Samples S39DL, S39MS and

S39MSD were analyzed at 10X dilutions. The unspiked sample S39DL contained toluene, and the percent recovery and RPD of toluene in the MS and MSD exceeded the QC limits.

In the matrix spike and matrix spike duplicate samples, the recoveries and RPDs were within the QC limits except for high RPD reported for benzene. (FORM III)

f. Instrument Sensitivity Summary

To verify instrument sensitivity, a volatile standards at 10 µg/L were analyzed immediately after each initial calibration (files >AG192 and >AG247). The results, included in the QC section, indicate that the HP MSD #4 GC/MS is capable of detecting the VOA compounds at 10 µg/L level.

To verify instrument sensitivity, a volatile standard at 10 µg/L was analyzed (file 0525ICHK). The results, included in the QC section, indicate that the Incos 50 GC/MS is capable of detecting the VOA compounds at the 10 µg/L level.

g. Field Duplicates

Three field duplicates are included in the data set. Total ion chromatograms and analytical results of the field duplicates 93ZE33D37, -D38 and -D39DL are similar to those of the corresponding samples (93ZE33S37, -S38 and -S39DL, respectively).

6. SAMPLE RESULTS

a. Method Blank Results

The following is a summary of the results obtained for method blanks.

Blank	Number of TCLs Compounds	Number of TICs
051893BLK1 (HP)	2	0
052593BLK2 (HP)	0	0
052693BLK2 (HP)	2	0
052793BLK2 (HP)	1	0
0525BLK1 (Incos)	1	0
0526BLK2 (Incos)	1	0

b. Sample Results

The results of the samples are as follows:

Sample	Number of TCLs Compounds	Number of TICs
93ZE06R60	1	1
93ZE06R61	1	1
93ZE06R62	1	0
93ZE06R63	1	0
93ZE06R64	1	0
93ZE06R65	1	1
93ZE33S36	1	0
93ZE33S37DL	1	0
93ZE33D37DL	2	0
93ZE33S38	1	0
93ZE33D38	1	0
93ZE33S39DL1	19	0
93ZE33D39DL1	19	0

7. CONCLUSIONS

All samples, except for 93ZE33S39 and D39, reported 1 to 2 TCL compounds and none or one TICs.

LOCKHEED ENGINEERING AND SCIENCE COMPANY
REGION 5
ESAT PROJECT
536 SOUTH CLARK STREET
CHICAGO, IL 60605

RAW DATA ARCHIVING AND DATA SET RECONSTRUCTION FORM

DISK OR TAPE NUMBER: Tape 11

RUN DATE(S): 5/17, 5/18, 5/25, 5/26 and 5/27/93
INSTRUMENT NO: HP MSD #4
ANALYST(S): A. Gugliotta / ESAT

SAMPLE SUMMARY MATRIX

DATA SET NUMBER:	SF 1187				
TASK NUMBER:	0593-0510				
DU/ACTIVITY NUMBER:	301				
PARAMETER:	VOA				
MATRIX:	WATER				
NUMBER OF SAMPLES:	13				
DATE RECEIVED:	5/13+14/93				
DATE EXTRACTED:	NA				
NOTEBOOK/PAGE NO:	p. 80-90				
DATE ASSAYED:	5/18-27/93				

FILE IDENTIFICATION SUMMARY

TUNING FILE:	>AG185	>AG209	>AG239	>AG253	>AG267
BLANK FILE:	>AG211	>AG248	>AG256	>AG271	

PRIMARY COLUMN

INITIAL CALIBRATION FILE: >AG187- >AG191 and >AG240 to >AG244
CONTINUING CALIBRATION FILES: >AG210 >AG254, >AG269,
ag 6/11/93 ~~STANDARDS FILES~~: >AG218- >AG221, >AG249- >AG252, >AG258- >AG265, >AG272- >AG273
SAMPLE FILES:

ID/METHOD FILES: ID files: IDAG05, -06, -08, -09, and -10; Calib files: CBAG02, CBAG03; Method files: VOA #1 + BFB #1

SECONDARY COLUMN

N/A

INITIAL CALIBRATION FILE:
CONTINUING CALIBRATION FILES:
STANDARDS FILES:
SAMPLE FILES:

ID/METHOD FILES:

ESAT-5-018.1

LOCKHEED
ANALYTICAL LABORATORY
TIME TRACKING RECORD

Task Number: 232-51-104 Date Assigned: 5/19/93
TID Number: 0593-05-10 Date Due: 6/1/93
SF Number: 1187 Estimated Hours: 65.0 (TOTAL)
Site Name: H.O.D. LANDFILL
Assigned To: Lockheed LESAT

VOA _____ BNA _____ Pest/PCBs _____ Other _____

****

Extraction Record

Person: N/A	Date:	Hours:
Person:	Date:	Hours:
Person:	Date:	Hours:
Person:	Date:	Hours:

****

Analysis Record

Person: A. Guglietta	Date: 5/25-6/17/93	Hours: 62.0
Person:	Date:	Hours:
Person:	Date:	Hours:
Person:	Date:	Hours:
Person:	Date:	Hours:
Person:	Date:	Hours:

****

QA/QC Record

Person: [illegible]	Date: 6/18/93	Hours: 3.0
Person:	Date:	Hours:
Person:	Date:	Hours:

****

LIMS Data Entry

Person:	Date:	Hours:
Person:	Date:	Hours:

****

Comments:

****

Total Hours: _____ EMT: _____

LOCKHEED ENGINEERING & SCIENCES COMPANY

VOLATILE ORGANIC DELIVERABLES CHECK-OFF LIST

DATA SET NUMBER: 5F1187 CHARGE NUMBER: 232-51-104

PRESENT	NOT REQD	ITEM
		REPORTING INFORMATION
[✓]	[ ]	SAMPLE REPORT LOG
[✓]	[ ]	DATA SET CUSTODY TRANSFER FORM
[✓]	[ ]	NARRATIVE
[✓]	[ ]	RUN SEQUENCE
[ ]	[✓]	ABN BENCH SHEET
		AQC
[✓]	[ ]	SURROGATE RECOVERY (FORM II)
[✓]	[ ]	MATRIX SPIKE/DUP (FORM III)
[✓]	[ ]	MS/MSD RAW DATA
[✓]	[ ]	METHOD BLANK (FORM VI)
[✓]	[ ]	MASS CAL/TUNING (FORM V)
[✓]	[ ]	MASS CAL RAW DATA
[✓]	[ ]	MDL RESULTS (ICAL CHECKS)

PRESENT	NOT REQD	ITEM
		CALIBRATION DATA
[✓]	[ ]	INITIAL CAL RRF (FORM VI)
[✓]	[ ]	ICV RAW DATA
[✓]	[ ]	CONT CAL VERIFI (FORM VII)
[✓]	[ ]	CCV RAW DATA
[✓]	[ ]	INT STD AREA & RT (FORM VIII)
		SAMPLE DATA
[✓]	[ ]	ID FILE (SHORT) (HP ONLY)
[✓]	[ ]	TCL RESULTS (FORM I)
[✓]	[ ]	TIC RESULTS (FORM I-TIC)
[✓]	[ ]	SAMPLE RAW DATA
[✓]	[ ]	SAMPLE TAGS
[✓]	[ ]	ARCHIVE REFERENCE
[✓]	[ ]	QC SUMMARY PACKAGE (FORMS 2-8)

ESAT-5-007.0

To: Jay Thakkar, EPA DPO

For: Transmittal to: Nidia Fuentes, EPA Task Monitor

Thru: Dennis Miller, ESAT Team Manager

From: Ziyad A. Rajabi, ESAT Chemist ZR
Anthony Gugliotta, ESAT Chemist agg

Copies: Ira Wilson, ESAT Assistant Team Manager
Kelly Head, ESAT Organic Group Leader

Date: June 15, 1993

SUBJECT: Data Set SF1187 VOA Analysis for
H. O. D. Landfill

ESAT Work Unit Document (WUD)

REQUESTOR:	NIDIA FUENTES	DATE:	05/18/93
SITE NAME:	H.O.D. LANDFILL		
SUPERFUND ACCOUNT NUMBER:	SF1187		
TASK AREA:	I VOA Analysis		

To be completed by Task Monitor

TASK DESCRIPTION: Analysis of 8 Samples (Day 1) FOR VOA

DELIVERABLES: Complete data Package as per CRL requirements (Note: please notify task monitor in writing if completion date cannot be met)

START DATE:	05/18/93	COMPLETION DATE:	06/01/93
ESTIMATED HOURS:	40 HR. (8 VOA SAMPLES)		

To be completed by PO/RPO

WORK UNIT NUMBER:	232-51-104	TID NUMBER:	05-93-05-10
PO/RPO APPROVAL:	Jay Thulker	DATE:	5-19-93

To be completed by ESAT

COI CHECK COMPLETED?: Yes	ESAT CONTACT: (ETM or Group Leader)
ETM ACKNOWLEDGEMENT OF RECEIPT: Dennis Miller	
COMPLETION DATE:	HOURS

To be completed by PO/RPO/TM

EVALUATION	RECIEVED BY:		
TECHNICAL:	ACCEPTED		DATE:
TIMELINESS:	RETURN		DATE:
BUDGET:	*Please attach a separate page for comments.*		

REGION SPECIFIC INFORMATION

PROJECT NO:

ESAT Work Unit Document (WUD)

REQUESTOR:	NIDIA FUENTES	DATE:	5-18-93
SITE NAME:	H.O.D. LANDFILL		
SUPERFUND ACCOUNT NUMBER:	SF 1187		
TASK AREA:	I VOA ANALYSIS		

To be completed by Task Monitor

TASK DESCRIPTION:

ANALYSIS OF 5 SAMPLES FOR VOA. DAY 2

DELIVERABLES:

COMPLETE DATA PACKAGE AS PER CRL REQUIREMENTS (NOTE: PLEASE NOTIFY TASK MONITOR IN WRITING IF COMPLETION DATE CANNOT BE MET.)

START DATE:	5-18-93	COMPLETION DATE:	6-01-93
ESTIMATED HOURS:	25 HOURS		

To be completed by PO/RPO

WORK UNIT NUMBER:	232-51-104	TID NUMBER:	05-93-05-10
PO/RPO APPROVAL:	Jay Thacker	DATE:	5-19-93

To be completed by ESAT

COI CHECK COMPLETED?: Yes	ESAT CONTACT: (ETM or Group Leader)
ETM ACKNOWLEDGEMENT OF RECEIPT: Denise Miller	
COMPLETION DATE:	HOURS

To be completed by PO/RPO/TM

EVALUATION	RECIEVED BY:		
TECHNICAL:	ACCEPTED		DATE:
TIMELINESS:	RETURN		DATE:
BUDGET:	*Please attach a separate page for comments.*		

REGION SPECIFIC INFORMATION

PROJECT NO:

D93000 1187

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: TOXIC SUBSTANCES

TFA301 DAY 1

DIVISION/BRANCH ARCS/SUPERFUND SAMPLE DATE 5/12/93 LAB ARRIVAL DATE 5/13/93 DUE DATE 6/~~02~~ 3/93

DU NUMBER TFA DATA SET NUMBER 1187 STUDY H.O.D. Landfill PRIORITY — CONTRACTOR — E&E

CRL LOG NUMBER	SAMPLE DESCRIPTION	WATER VOLATILE ORGANICS SCAN UG/L TOX 17564	WATER ABN ORGANICS SCAN UG/L TOX 17574	SEDIMENTS SOLIDS VOLATILE ORGANICS SCAN MG/KG (DRY) TOX 215622	SEDIMENTS SOLIDS ABN ORGANICS SCAN MG/KG (DRY) TOX 215722
93ZE33539	5-031691 5-031637-8 L1 + MSD		X		
↓ D39	5-031704 L1D		X		
~~93ZE06R64~~	~~LFB01~~	X	X		
~~93ZE06R65~~	~~LFB01~~				
93ZE33536	W7D 5-031609 5-031612-613		X		
93ZE33537	USGD 5-031634		X		
93ZE33D37	DUSGD 5-031658		X		
93ZE06R60	MWFB01 5-031677		X		

L1

Anthony Guglielmo

D930001187

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: TOXIC SUBSTANCES

TFA301 DAY 1

DIVISION/BRANCH ARCS/SUPERFUND SAMPLE DATE 5/12/93 LAB ARRIVAL DATE 5/13/93 DUE DATE 6/~~12~~ 3/93

DU NUMBER TFA DATA SET NUMBER 1187 STUDY H.O.D. Landfill PRIORITY — CONTRACTOR — E&E

CRL LOG NUMBER	SAMPLE DESCRIPTION	WATER VOLATILE ORGANICS SCAN UG/L TOX 17564	WATER ABN ORGANICS SCAN UG/L TOX 17574	SEDIMENTS SOLIDS VOLATILE ORGANICS SCAN MG/KG (DRY) TOX 215622	SEDIMENTS SOLIDS ABN ORGANICS SCAN MG/KG (DRY) TOX 215722
93ZE33S36	W7D 5-031601-2-3-604-5-6-7-8	X			
37	US6D 5-031626-7-8	X			
D37	DUS6D 5-031650-1-2	X			
93ZE06R60	MWFB01 5-031674-6	X			
93ZE06R61	MWTB01 5-031731-2	X			
93ZE06R65	LTB01 5-031729-730	X			
93ZE33S39	LTMSD 5-031629-30-31-32-33 5-031688-89-90	X			
93ZE33D39	LID 5-031701-02-03	X			

MS10

Anthony Gerghotto

2A
WATER VOLATILE SURROGATE RECOVERY

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 1187 SAS No.: NA SDG No.: NA

	EPA SAMPLE NO.	S1 (TOL)#	S2 (BEN)#	S3 (DCE)#	OTHER	TOT OUT
01	0525ICHK	81	96	107		0
02	93ZE33D37D	88	95	95		0
03	93ZE33D38	102	98	90		0
04	93ZE33S37D	83	93	99		0
05	0525BLK1	91	92	102		0
06	0526BLK2	105	100	91		0

	QC LIMITS
S1 (TOL) = Toluene-d8	(78-134)
S2 (BEN) = Benzene-d6	(88-112)
S3 (DCE) = 1,2-Dichloroethane-d4	(75-111)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

2A
WATER VOLATILE SURROGATE RECOVERY

Lab Name: H. O. D. LANDFILL Contract: LOCKHEED/ESAT

Lab code: 5SCRL Case No.: SF1187 SAS No.: --- SDG No.: ---

	EPA SAMPLE NO.	S1 (BEN)#	S2 (BFB)#	S3 (DCB)#	S4 ( )#	TOT OUT
01	051893BLK1	100	91	90		0
02	93ZE06R60	94	91	97		0
03	93ZE06R61	101	90	97		0
04	93ZE06R65	100	91	97		0
05	052593BLK3	101	99	103		0
06	93ZE06R62	101	96	100		0
07	93ZE06R63	101	99	102		0
08	93ZE06R64	102	96	103		0
09	93ZE33S38	102	97	99		0
10	052693BLK2	102	96	102		0
11	93ZE33S39DL1	102	103	103		0
12	93ZE33D39DL1	100	101	103		0
13	93ZE33S39MS	101	103	103		0
14	93ZE33S39MSD	101	103	103		0
15	93ZE33S36	101	94	95		0
16	93ZE33S36MS	102	103	103		0
17	93ZE33S36MSD	103	103	104		0
18	052793BLK2	102	94	97		0
19	93ZE33S38MS	101	96	98		0
20	93ZE33S38MSD	104	99	101		0
21						
22						
23						
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		QC LIMITS
S1 (BEN)	= BENZENE-D6	(70-130)
S2 (BFB)	= p-BROMOFLUOROBENZENE	(70-130)
S3 (DCB)	= 1,2-DICHLOROBENZENE-D4	(70-130)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

FORM II VOA-1 1/87 Rev

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: H. O. D. LANDFILL Contract: LOCKHEED/ESAT

Lab code: 5SCRL Case No.: SF1187 SAS No.: --- SDG No.: ---

Matrix Spike - EPA Sample No.: 93ZE33S36

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	10	0	11	113	70-130
Trichloroethene	10	0	11	108	70-130
Benzene	10	0	11	113	70-130
Toluene	10	1	11	103	70-130
Chlorobenzene	10	0	11	106	70-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	10	12	118	4	25	70-130
Trichloroethene	10	11	108	0	25	70-130
Benzene	10	11	114	1	25	70-130
Toluene	10	12	108	5	25	70-130
Chlorobenzene	10	11	109	3	25	70-130

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: Unspiked: >AG263; MS: >AG264; MSD: >AG265.

3A
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: H. O. D. LANDFILL Contract: LOCKHEED/ESAT

Lab code: 5SCRL Case No.: SF1187 SAS No.: --- SDG No.: ---

Matrix Spike - EPA Sample No.: 93ZE33S38

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	10	0	13	127	70-130
Trichloroethene	10	0	12	119	70-130
Benzene	10	0	12	115	70-130
Toluene	10	0	12	119	70-130
Chlorobenzene	10	0	11	111	70-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	10	12	120	6	25	70-130
Trichloroethene	10	11	113	5	25	70-130
Benzene	10	11	112	2	25	70-130
Toluene	10	11	112	6	25	70-130
Chlorobenzene	10	11	106	4	25	70-130

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: Unspiked: >AG252; MS: >AG272; MSD: >AG273.

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: H. O. D. LANDFILL Contract: LOCKHEED/ESAT

Lab code: 5SCRL Case No.: SF1187 SAS No.: --- SDG No.: ---

Matrix Spike - EPA Sample No.; 93ZE33S39DL

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	100	0	130	129	70-130
Trichloroethene	100	23	140	122	70-130
Benzene	100	23	150	129	70-130
Toluene	100	830	1030	209 *	70-130
Chlorobenzene	100	11	130	121	70-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	100	130	127	2	25	70-130
Trichloroethene	100	150	123	1	25	70-130
Benzene	100	150	125	3	25	70-130
Toluene	100	1100	296 *	34 *	25	70-130
Chlorobenzene	100	140	124	3	25	70-130

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

* Values outside of QC limits

RPD: 1 out of 5 outside limits

Spike Recovery: 2 out of 10 outside limits

COMMENTS: Unspiked: >AG258; MS: >AG260; MSD: >AG261.
Unspiked sample, MS and MSD analyzed at 10X dilutions.

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: H. O. D. LANDFILL Contract: LOCKHEED/ESAT

Lab code: 5SCRL Case No.: SF1187 SAS No.: --- SDG No.: ---

Matrix Spike - EPA Sample No.: 93ZE33S39DL

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	10	0	13	129	70-130
Trichloroethene	10	2	14	122	70-130
Benzene	10	2	15	129	70-130
Toluene	10	83	103	209 *	70-130
Chlorobenzene	10	1	13	121	70-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	10	13	127	2	25	70-130
Trichloroethene	10	15	123	1	25	70-130
Benzene	10	15	125	3	25	70-130
Toluene	10	110	296 *	34 *	25	70-130
Chlorobenzene	10	14	124	3	25	70-130

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

* Values outside of QC limits

RPD: 1 out of 5 outside limits

Spike Recovery: 2 out of 10 outside limits

COMMENTS: Unspiked: >AG258; MS: >AG260; MSD: >AG261.
Unspiked sample, MS and MSD analyzed at 10X dilutions.

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: H. O. D. LANDFILL Contract: LOCKHEED/ESAT

Lab code: 5SCRL Case No.: SF1187 SAS No.: --- SDG No.: ---

Lab File ID: >AG211 Lab Sample ID: 051893BLK1

Date Analyzed: 05/18/93 Time Analyzed: 15:04

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

Instrument ID: HP MS#4

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
1	93ZE06R60	93ZE06R60	>AG218	20:26
2	93ZE06R61	93ZE06R61	>AG219	21:10
3	93ZE06R65	93ZE06R65	>AG220	21:53
4	93ZE06S36	93ZE06S36	>AG221	22:35
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COMMENTS: _____.
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page __ of __.

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: H. O. D. LANDFILL Contract: LOCKHEED/ESAT

Lab code: 5SCRL Case No.: SF1187 SAS No.: --- SDG No.: ---

Lab File ID: >AG248 Lab Sample ID: 052593BLK3

Date Analyzed: 05/25/93 Time Analyzed: 18:58

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

Instrument ID: HP MS#4

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
1	93ZE06R62	93ZE06R62	>AG249	19:42
2	93ZE06R63	93ZE06R63	>AG250	20:22
3	93ZE06R64	93ZE06R64	>AG251	21:02
4	93ZE06S38	93ZE06S38	>AG252	22:22
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COMMENTS: _____

page __ of __.

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: H. O. D. LANDFILL Contract: LOCKHEED/ESAT

Lab code: 5SCRL Case No.: SF1187 SAS No.: --- SDG No.: ---

Lab File ID: >AG256 Lab Sample ID: 052693BLK2

Date Analyzed: 05/26/93 Time Analyzed: 11:36

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

Instrument ID: HP MS#4

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
1	93ZE33S39DL	93ZE33S39DL1	>AG258	13:18
2	93ZE33D39DL	93ZE33D39DL1	>AG259	14:31
3	93ZE33S39MS	93ZE33S39MS	>AG260	15:11
4	93ZE33S39MD	93ZE33S39MSD	>AG261	15:52
5	93ZE33S36	93ZE33S36	>AG263	17:18
6	93ZE33S36MS	93ZE33S36MS	>AG264	17:58
7	93ZE33S36MD	93ZE33S36MSD	>AG265	18:38
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COMMENTS: _____.
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page __ of __.

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: H. O. D. LANDFILL Contract: LOCKHEED/ESAT

Lab code: 5SCRL Case No.: SF1187 SAS No.: --- SDG No.: ---

Lab File ID: >AG271 Lab Sample ID: 052793BLK2

Date Analyzed: 05/27/93 Time Analyzed: 11:51

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

Instrument ID: HP MS#4

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
1	93ZE33S38MS	93ZE33S38MS	>AG272	12:34
2	93ZE33S38MD	93ZE33S38MSD	>AG273	13:14
4				
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COMMENTS: _____.
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page __ of __.

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 1187 SAS No.: NA SDG No.: NA

Lab File ID: 0525BLK1 Lab Sample ID: 0525BLK1

Date Analyzed: 05/25/93 Time Analyzed: 1843

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

Instrument ID: INCOS1

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	0525ICHK	0525ICHK	0525ICHK	2019
02	93ZE33D37D	93ZE33D37D	93ZE33D37D	2156
03	93ZE33S37D	93ZE33S37D	93ZE33S37D	2108

COMMENTS: CLP,1187,,0525BLK1,L,W,,V,BLANK
45' (3 MIN) TO 220' @ 8'/MIN

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 1187 SAS No.: NA SDG No.: NA

Lab File ID: 0526BLK2 Lab Sample ID: 0526BLK2

Date Analyzed: 05/26/93 Time Analyzed: 1413

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

Instrument ID: INCOS1

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	93ZE33D38	93ZE33D38	93ZE33D38	1548

COMMENTS: CLP,1187,,0526BLK2,L,W,,V,BLANK
45' (3 MIN) TO 220' @ 8'/MIN

FORM IV VOA 1/87 Rev.

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: H. O. D. LANDFILL Contract:LOCKHEED/ESAT

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------- SDG No.: ------

Lab File ID: >AG185 BFB Injection Date: 5/17/93

Instrument ID: HP MS#4 BFB Injection Time: 15:39

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% OF MASS 95	26.9
75	30.0 - 60.0% OF MASS 95	58.6
95	Base peak, 100% relative abundance	100.
96	5.0 - 9.0% of mass 95	5.8
173	Less than 2.0% of mass 174	0.0(0.0)1
174	Greater than 50.0% of mass 95	65.4
175	5.0 - 9.0% of mass 174	4.9(7.5)1
176	Greater than 95.0%, but less than 101.0% of mass 174	63.0(96.4)1
177	5.0 - 9.0% of mass 176	4.3(6.9)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	5 PPB STD.	5 PPB STD.	>AG187	5/17/93	16:22
02	25 PPB STD.	25 PPB STD.	>AG188	5/17/93	17:02
03	50 PPB STD.	50 PPB STD.	>AG189	5/17/93	17:42
04	100 PPB STD.	100 PPB STD.	>AG190	5/17/93	18:21
05	150 PPB STD.	150 PPB STD.	>AG191	5/17/93	19:01
06					
07					
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FORM V VOA 1/87 Rev.

GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

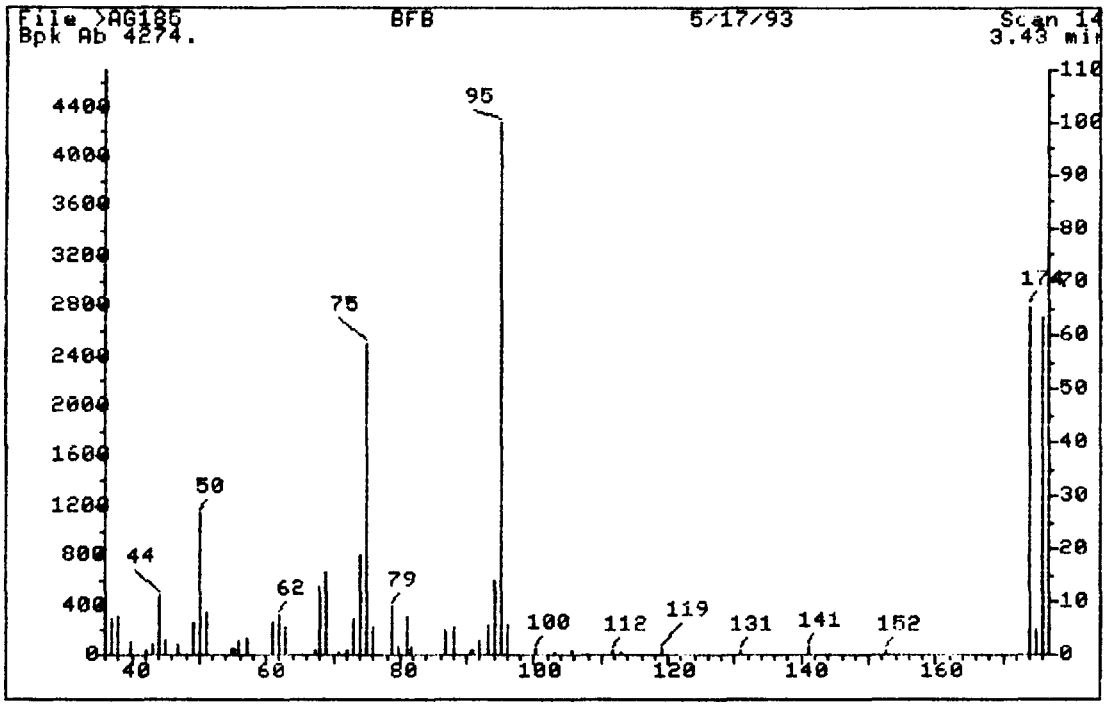
m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
50	15-40% of mass 95	26.91	26.91	Ok
75	30-60% of mass 95	58.56	58.56	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	5.76	5.76	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	65.40	65.40	Ok
175	5-9% of mass 174	4.91	7.51	Ok
176	95-101% of mass 174	63.03	96.39	Ok
177	5-9% of mass 176	4.33	6.87	Ok

Injection Date: 05/17/93
Injection Time: 15:39
Data File: >AG185
Scan: 143

MS data file header from : >NF257::D2

Sample: ED01204 93EM04S03MS Operator: BABU REG. GRP. 6/15/93 16:04
Misc : 06/15/93
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 0 Equip ID: HP MS#4
Method file: VOA#1 Tuning file: MTMSD1 No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	10.	160.	0.	0.	0.
Chromatographic times, min. :	5.0	5.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	6.0	0.0	0.0	.1	0.0



MS data file header from : >NF257::D2

Sample: EDD1204 93EM04S03MS Operator: BABU REG. GRP. 6/15/93 16:04
Misc : 06/15/93
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 0 Equip ID: HP MS#4
Method file: VOA#1 Tuning file: MTMSD1 No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	10.	160.	0.	0.	0.
Chromatographic times, min. :	5.0	5.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	6.0	0.0	0.0	.1	0.0

>AG185 BFB 5/17/93
143

File: >AG185 Scan #: 143 Retn. time: 3.43

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
35.90	66.00	50.90	343.00	70.95	24.00	87.90	216.00	111.75	30.00
37.00	297.00	54.80	46.00	72.15	32.00	90.50	35.00	112.95	27.00
38.00	302.00	55.00	49.00	72.95	287.00	91.00	44.00	118.85	53.00
39.90	110.00	55.90	115.00	73.95	807.00	92.00	114.00	130.80	29.00
41.90	28.00	57.00	138.00	74.95	2503.00	93.00	240.00	140.90	63.00
42.90	86.00	60.95	280.00	75.95	220.00	94.00	600.00	152.65	36.00
44.00	478.00	61.95	326.00	78.85	401.00	95.00	4274.00	173.95	2795.00
44.90	117.00	62.95	223.00	79.85	75.00	96.00	246.00	174.90	210.00
46.90	88.00	67.15	43.00	80.85	314.00	100.30	46.00	175.90	2694.00
49.00	257.00	67.95	544.00	81.80	77.00	102.90	24.00	176.90	185.00
50.00	1150.00	68.95	662.00	86.90	208.00	105.75	32.00		

MS data file header from : >NF257::D2

Sample: ED01204 93EM04S03MS Operator: BABU REG. GRP. 6/15/93 16:04
Misc : 06/15/93
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 0 Equip ID: HP MS#4
Method file: VOA#1 Tuning file: MTMSD1 No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	10.	160.	0.	0.	0.
Chromatographic times, min. :	5.0	5.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	6.0	0.0	0.0	.1	0.0

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: H. O. D. LANDFILL Contract: LOCKHEED/ESAT

Lab code: 5SCRL Case No.: SF1187 SAS No.: --- SDG No.: ---

Lab File ID: >AG209 BFB Injection Date: 5/18/93

Instrument ID: HP MS#4 BFB Injection Time: 13:58

Matrix: (soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.0
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 (0.0)1
174	Greater than 50% of mass 95	76.3
175	5.0 - 9.0% of mass 174	5.5 (7.2)1
176	95.0 - 101.0% of mass 174	75.3 (98.6)1
177	5.0 - 9.0% of mass 176	5.2 (6.9)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	50 PPB STD	50 PPB STD	>AG210	05/18/93	14:24
02	051893BLK1	051893BLK1	>AG211	05/18/93	15:04
03	93ZE06R60	93ZE06R60	>AG218	05/18/93	20:26
04	93ZE06R61	93ZE06R61	>AG219	05/18/93	21:10
05	93ZE06R65	93ZE06R65	>AG220	05/18/93	21:53
06	93ZE06S36	93ZE06S36	>AG221	05/18/93	22:35
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM V VOA 1/87 Rev.

GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

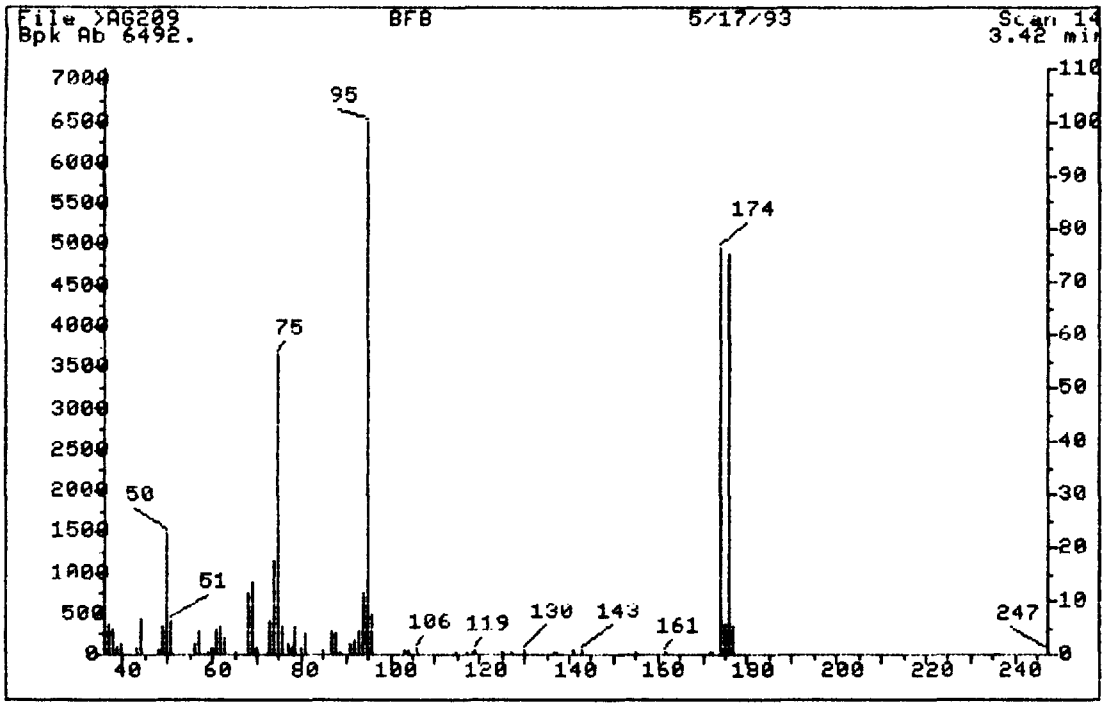
m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
50	15-40% of mass 95	23.00	23.00	Ok
75	30-60% of mass 95	56.36	56.36	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	7.46	7.46	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	76.34	76.34	Ok
175	5-9% of mass 174	5.51	7.22	Ok
176	95-101% of mass 174	75.31	98.65	Ok
177	5-9% of mass 176	5.19	6.89	Ok

Injection Date: 05/18/93
Injection Time: 13:58
Data File: >AG209
Scan: 142

MS data file header from : >NF257::D2

Sample: ED01204 93EM04S03MS Operator: BABU REG. GRP. 6/15/93 16:04
Misc : 06/15/93
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 0 Equip ID: HP MS#4
Method file: VOA#1 Tuning file: MTMSD1 No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	10.	160.	0.	0.	0.
Chromatographic times, min. :	5.0	5.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	6.0	0.0	0.0	.1	0.0



MS data file header from : >NF257::D2

Sample: EDO1204 93EM04S03MS Operator: BABU REG. GRP. 6/15/93 16:04
Misc : 06/15/93
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 0 Equip ID: HP MS#4
Method file: VOA#1 Tuning file: MTMSD1 No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	10.	160.	0.	0.	0.
Chromatographic times, min. :	5.0	5.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	6.0	0.0	0.0	.1	0.0

>AG209 BFB 5/17/93
142

File: >AG209 Scan #: 142 Retn. time: 3.42

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
35.85	33.00	60.00	92.00	77.05	128.00	95.00	6492.00	136.75	27.00
36.95	355.00	61.00	320.00	77.95	111.00	96.00	484.00	137.35	23.00
38.05	312.00	61.90	329.00	78.85	337.00	102.90	45.00	140.85	58.00
38.90	96.00	63.00	212.00	79.95	71.00	103.90	60.00	142.80	64.00
39.90	131.00	65.25	34.00	80.85	270.00	106.00	78.00	154.90	26.00
43.00	69.00	67.95	745.00	84.85	60.00	114.80	35.00	161.60	32.00
44.00	436.00	68.95	872.00	86.95	283.00	116.75	36.00	171.75	28.00
48.00	66.00	69.95	80.00	87.95	270.00	116.95	37.00	171.95	31.00
48.90	344.00	72.25	34.00	88.65	28.00	118.45	22.00	173.95	4956.00
50.00	1493.00	72.95	406.00	91.00	135.00	118.95	48.00	174.85	358.00
51.00	428.00	73.95	1139.00	91.90	180.00	125.05	27.00	175.95	4889.00
56.10	120.00	74.95	3659.00	92.90	275.00	127.05	22.00	176.85	337.00
57.00	276.00	75.95	344.00	93.90	760.00	129.85	60.00	247.50	21.00
59.00	33.00								

MS data file header from : >NF257::D2

Sample: ED01204 93EM04S03MS Operator: BABU REG. GRP. 6/15/93 16:04
Misc : 06/15/93
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 0 Equip ID: HP MS#4
Method file: VOA#1 Tuning file: MIMS01 No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	10.	160.	0.	0.	0.
Chromatographic times, min. :	5.0	5.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	6.0	0.0	0.0	.1	0.0

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: H. O. D. LANDFILL Contract: LOCKHEED/ESAT

Lab code: 5SCRL Case No.: SF1187 SAS No.: --- SDG No.: ---

Lab File ID: >AG239 BFB Injection Date: 5/25/93

Instrument ID: HP MS#4 BFB Injection Time: 13:16

Matrix: (soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.4
75	30.0 - 60.0% of mass 95	55.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50% of mass 95	82.7
175	5.0 - 9.0% of mass 174	6.6 (8.0)1
176	95.0 - 101.0% of mass 174	82.5 (99.7)1
177	5.0 - 9.0% of mass 176	5.3 (6.4)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	5 PPB STD	5 PPB STD	>AG240	05/25/93	13:43
02	25 PPB STD	25 PPB STD	>AG241	05/25/93	14:22
03	50 PPB STD	50 PPB STD	>AG242	05/25/93	15:01
04	100PPB STD	100 PPB STD	>AG243	05/25/93	15:40
05	150PPB STD	150 PPB STD	>AG244	05/25/93	16:20
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

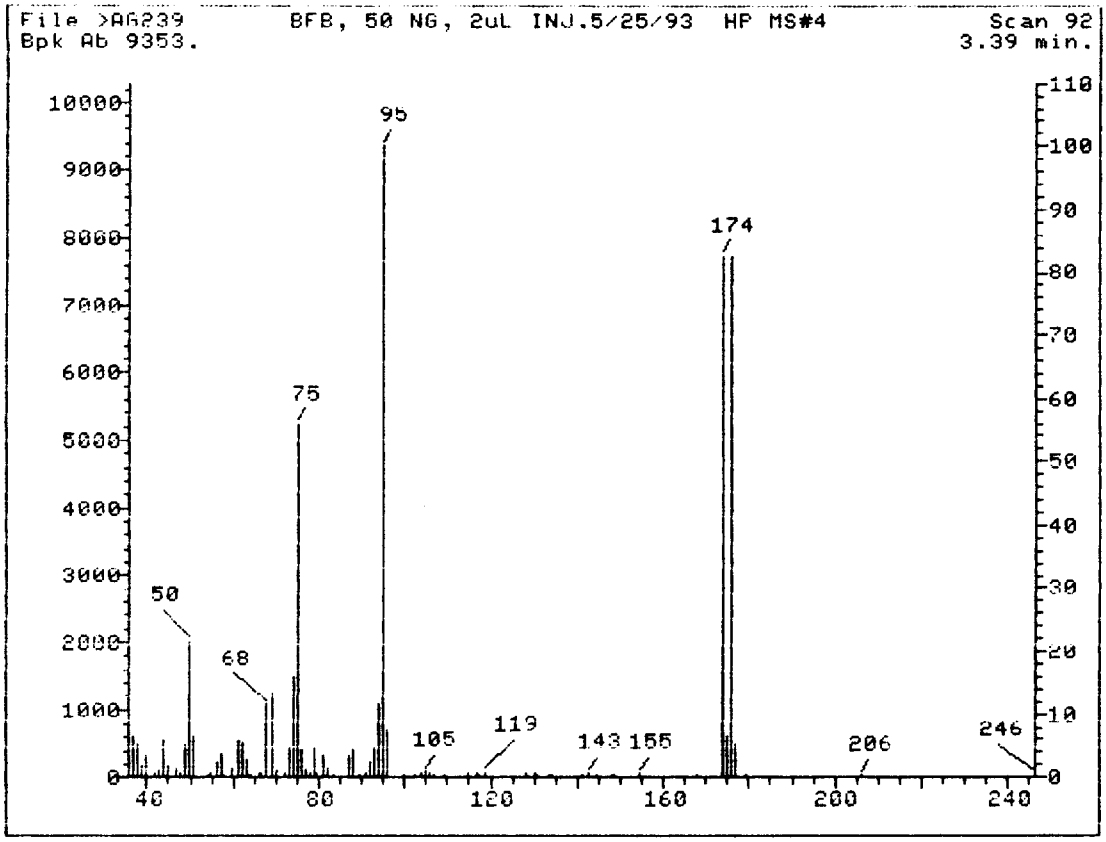
m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
50	15-40% of mass 95	21.42	21.42	Ok
75	30-60% of mass 95	55.92	55.92	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	7.57	7.57	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	82.68	82.68	Ok
175	5-9% of mass 174	6.62	8.00	Ok
176	95-101% of mass 174	82.45	99.73	Ok
177	5-9% of mass 176	5.30	6.43	Ok

Injection Date: 05/25/93
Injection Time: 13:16
Data File: >AG239
Scan: 92

MS data file header from : >AG239::D4

Sample: BFB, 50 NG, 2uL INJ. Operator: TONY REG. GRP. 5/25/93 13:16
Misc : 5/25/93 HP MS#4
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 0 Equip ID: HP MS#4
Method file: BFB#1 Tuning file: MTMSD1 No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	100.	160.	0.	0.	0.
Chromatographic times, min. :	0.0	1.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	15.0	0.0	0.0	.1	0.0



MS data file header from : >AG239::D4

Sample: BFB, 50 NG, 2uL INJ. Operator: TUNY REG. GRP. 5/25/93 13:16
Misc : 5/25/93 HP MS#4
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 0 Equip ID: HP MS#4
Method file: BFB#1 Tuning file: MTMSD1 No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	100.	160.	0.	0.	0.
Chromatographic times, min. :	0.0	1.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	15.0	0.0	0.0	.1	0.0

>AG239 BFB, 50 NG, 2uL INJ.5/25/93 HP MS#4
92

File: >AG239 Scan #: 92 Retn. time: 3.39

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
35.95	89.00	57.00	370.00	75.95	412.00	99.90	26.00	133.75	34.00
36.95	607.00	57.80	63.00	76.95	126.00	102.60	26.00	134.15	26.00
37.95	476.00	59.70	122.00	77.95	61.00	103.70	81.00	140.85	49.00
38.90	199.00	60.90	534.00	78.85	455.00	105.00	90.00	142.80	69.00
39.90	324.00	61.90	519.00	79.75	86.00	105.90	61.00	144.70	45.00
42.00	61.00	62.90	263.00	80.85	330.00	106.80	51.00	147.80	50.00
43.00	88.00	63.60	45.00	81.85	132.00	109.10	26.00	148.40	34.00
43.90	537.00	64.10	43.00	83.25	26.00	110.80	22.00	154.70	59.00
45.00	180.00	65.95	80.00	86.95	326.00	114.90	62.00	167.75	28.00
46.80	120.00	66.85	72.00	87.95	411.00	116.75	77.00	173.85	7733.00
47.70	85.00	67.85	1072.00	89.65	33.00	117.35	40.00	174.85	619.00
48.90	479.00	68.95	1246.00	91.00	82.00	118.15	23.00	175.85	7712.00
49.90	2003.00	69.95	107.00	91.80	238.00	118.85	86.00	176.85	496.00
50.90	603.00	71.95	79.00	92.90	449.00	127.95	86.00	179.15	28.00
54.20	31.00	72.85	465.00	93.90	1098.00	129.95	62.00	205.90	29.00
54.90	75.00	73.95	1501.00	94.90	9353.00	130.75	24.00	246.50	21.00
56.00	222.00	74.95	5230.00	95.90	708.00	131.55	20.00		

MS data file header from : >AG239::D4

Sample: BFB, 50 NG, 2uL INJ. Operator: TONY REG. GRP. 5/25/93 13:16
Misc : 5/25/93 HP MS#4
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 0 Equip ID: HP MS#4
Method file: BFB#1 Tuning file: MTMSD1 No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	100.	160.	0.	0.	0.
Chromatographic times, min. :	0.0	1.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	15.0	0.0	0.0	.1	0.0

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: H. O. D. LANDFILL Contract: LOCKHEED/ESAT

Lab code: 5SCRL Case No.: SF1187 SAS No.: --- SDG No.: ---

Lab File ID: >AG253 BFB Injection Date: 5/26/93

Instrument ID: HP MS#4 BFB Injection Time: 9:01

Matrix: (soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.8
75	30.0 - 60.0% of mass 95	54.2
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	.6 (.7)1
174	Greater than 50% of mass 95	85.2
175	5.0 - 9.0% of mass 174	6.4 (7.5)1
176	95.0 - 101.0% of mass 174	85.6 (100.4)1
177	5.0 - 9.0% of mass 176	5.4 (6.3)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	50 PPB STD	50 PPB STD	>AG254	05/26/93	09:30
02	LAB BLANK2	052693BLK2	>AG256	05/26/93	11:36
03	93ZE33S39DL	93ZE33S39DL1	>AG258	05/26/93	13:18
04	93ZE33D39DL	93ZE33D39DL1	>AG259	05/26/93	14:31
05	93ZE33S39MS	93ZE33S39MS	>AG260	05/26/93	15:11
06	93ZE33S39MD	93ZE33S39MSD	>AG261	05/26/93	15:52
07	93ZE33S36	93ZE33S36	>AG263	05/26/93	17:18
08	93ZE33S36MS	93ZE33S36MS	>AG264	05/26/93	17:58
09	93ZE33S36MD	93ZE33S36MSD	>AG265	05/26/93	18:38
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

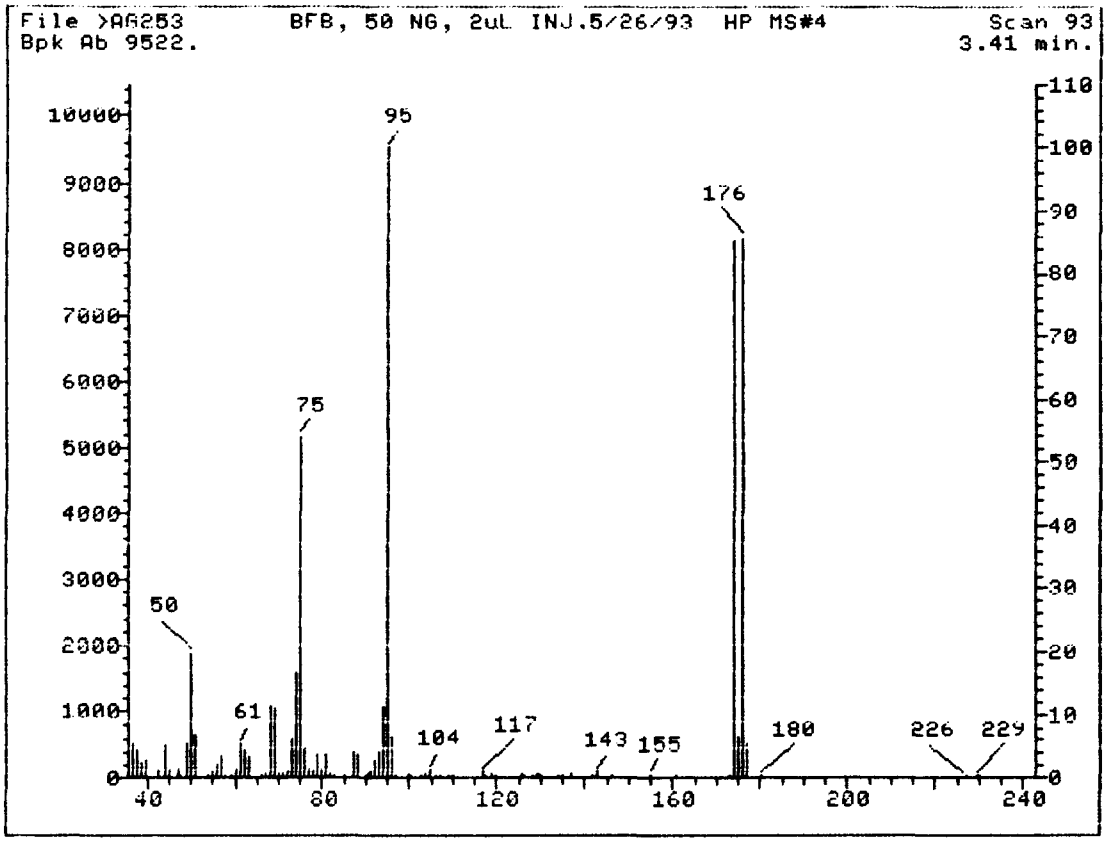
m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
50	15-40% of mass 95	19.81	19.81	Ok
75	30-60% of mass 95	54.17	54.17	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	6.65	6.65	Ok
173	Less than 2% of mass 174	.56	.65	Ok
174	Greater than 50% of mass 95	85.21	85.21	Ok
175	5-9% of mass 174	6.35	7.46	Ok
176	95-101% of mass 174	85.58	100.43	Ok
177	5-9% of mass 176	5.38	6.28	Ok

Injection Date: 05/26/93
Injection Time: 09:01
Data File: >AG253
Scan: 93

MS data file header from : >AG253::D4

Sample: BFB, 50 NG, 2uL INJ. Operator: TONY REG. GRP. 5/26/93 9:01
Misc : 5/26/93 HP MS#4
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 0 Equip ID: HP MS#4
Method file: BFB#1 Tuning file: MTMSD1 No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	100.	160.	0.	0.	0.
Chromatographic times, min. :	0.0	1.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	15.0	0.0	0.0	.1	0.0



MS data file header from : >AG253::D4

Sample: BFB, 50 NG, 2uL INJ. Operator: TONY REG. GRP. 5/26/93 9:01
Misc : 5/26/93 HP MS#4
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 0 Equip ID: HP MS#4
Method file: BFB#1 Tuning file: MTMSD1 No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	100.	160.	0.	0.	0.
Chromatographic times, min. :	0.0	1.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	15.0	0.0	0.0	.1	0.0

>AG253 BFB, 50 NG, 2uL INJ.5/26/93 HP MS#4
93

File: >AG253 Scan #: 93 Retn. time: 3.41

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
35.95	115.00	60.00	150.00	80.95	348.00	104.50	122.00	139.05	20.00
36.95	535.00	61.00	510.00	81.95	78.00	105.90	48.00	141.70	31.00
37.95	435.00	62.00	412.00	82.75	33.00	106.90	42.00	142.90	90.00
38.90	248.00	63.00	327.00	85.15	25.00	108.90	32.00	146.00	46.00
39.90	280.00	66.05	28.00	86.85	391.00	109.90	28.00	154.70	46.00
42.80	145.00	66.95	60.00	87.95	368.00	110.20	29.00	158.70	21.00
44.00	503.00	67.95	1082.00	89.85	28.00	116.75	93.00	160.90	36.00
45.00	122.00	68.95	1041.00	90.60	75.00	117.35	27.00	172.85	53.00
46.90	151.00	69.95	87.00	90.90	98.00	118.75	57.00	173.85	8114.00
47.60	56.00	70.75	64.00	91.80	251.00	119.55	26.00	174.85	605.00
49.00	529.00	71.95	100.00	92.90	397.00	125.75	62.00	175.85	8149.00
50.00	1886.00	72.85	572.00	93.90	1065.00	126.05	44.00	176.85	512.00
50.90	658.00	73.95	1601.00	95.00	9522.00	128.15	48.00	177.75	22.00
54.00	41.00	74.95	5158.00	96.00	633.00	128.95	60.00	180.45	29.00
54.90	99.00	75.95	447.00	97.00	56.00	129.65	63.00	226.35	22.00
56.00	193.00	77.05	144.00	99.60	57.00	129.95	48.00	227.25	29.00
57.00	337.00	78.05	92.00	100.30	34.00	134.15	37.00	229.45	32.00
58.00	53.00	78.85	369.00	102.70	26.00	134.85	36.00	229.95	26.00
59.10	53.00	79.85	126.00	103.70	66.00	136.95	57.00	242.95	25.00

MS data file header from : >AG253::D4

Sample: BFB, 50 NG, 2uL INJ. Operator: TONY REG. GRP. 5/26/93 9:01
Misc : 5/26/93 HP MS#4
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 0 Equip ID: HP MS#4
Method file: BFB#1 Tuning file: MTMSD1 No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	100.	160.	0.	0.	0.
Chromatographic times, min. :	0.0	1.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	15.0	0.0	0.0	.1	0.0

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: H. O. D. LANDFILL Contract: LOCKHEED/ESAT

Lab code: 5SCRL Case No.: SF1187 SAS No.: --- SDG No.: ---

Lab File ID: >AG267 BFB Injection Date: 5/27/93

Instrument ID: HP MS#4 BFB Injection Time: 9:23

Matrix: (soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.4
75	30.0 - 60.0% of mass 95	58.0
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	.6 (.7)1
174	Greater than 50% of mass 95	82.4
175	5.0 - 9.0% of mass 174	5.9 (7.1)1
176	95.0 - 101.0% of mass 174	79.9 (97.0)1
177	5.0 - 9.0% of mass 176	5.2 (6.5)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	50 PPB STD	50 PPB STD	>AG269	05/27/93	10:31
02	LAB BLANK2	052793BLK2	>AG271	05/27/93	11:51
03	93ZE33S38MS	93ZE33S38MS	>AG272	05/27/93	12:34
04	93ZE33S38MD	93ZE33S38MSD	>AG273	05/27/93	13:14
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM V VOA 1/87 Rev.

GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

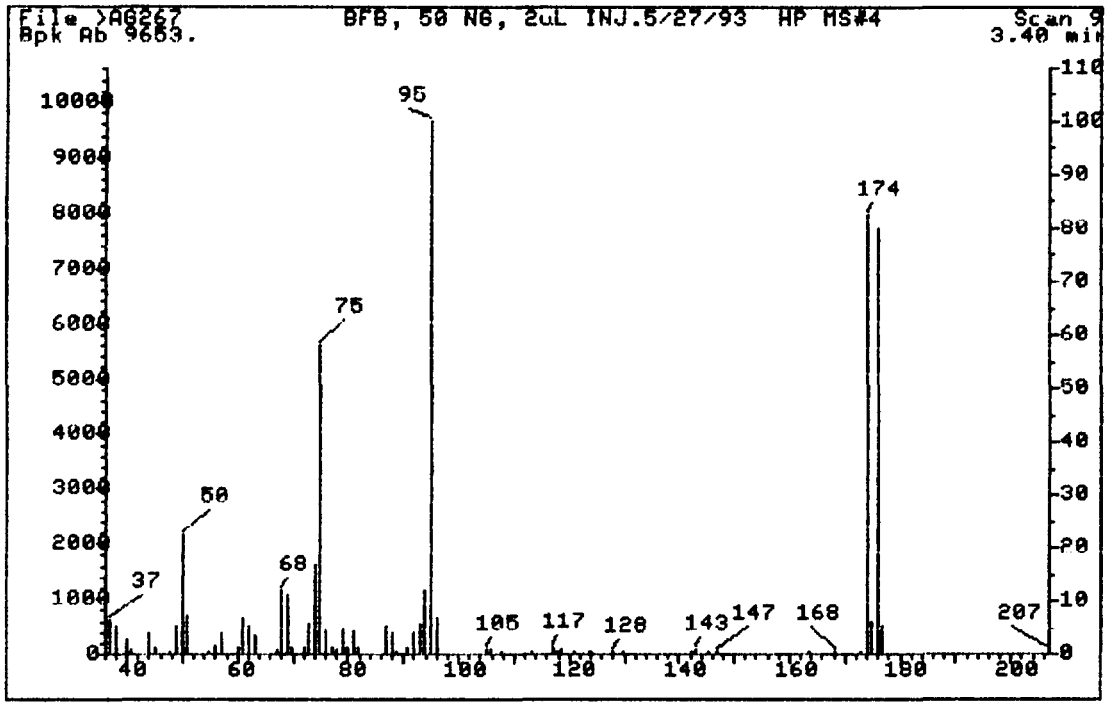
m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
50	15-40% of mass 95	22.45	22.45	Ok
75	30-60% of mass 95	58.03	58.03	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	6.63	6.63	Ok
173	Less than 2% of mass 174	.61	.74	Ok
174	Greater than 50% of mass 95	82.42	82.42	Ok
175	5-9% of mass 174	5.87	7.13	Ok
176	95-101% of mass 174	79.94	97.00	Ok
177	5-9% of mass 176	5.23	6.54	Ok

Injection Date: 05/27/93
Injection Time: 09:23
Data File: >AG267
Scan: 93

MS data file header from : >AG306::D3

Sample: 930005S01DL QB3FY93 Operator: TONY REG. GRP. 6/18/93 15:08
Misc : VIAL #28709, 2X DIL, 5uL/5mL PURGE
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 0 Equip ID: HP MS#4
Method file: VOA#1 Tuning file: MTMSD1 No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	10.	160.	0.	0.	0.
Chromatographic times, min. :	5.0	5.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	6.0	0.0	0.0	.1	0.0



MS data file header from : >AG306::D3

Sample: 930005S01DL QB3FY93 Operator: TONY REG. GRP. 6/18/93 15:08
Misc : VIAL #28709, 2X DIL, 5uL/5mL PURGE
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 0 Equip ID: HP MS#4
Method file: VOA#1 Tuning file: MTMSD1 No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	10.	160.	0.	0.	0.
Chromatographic times, min. :	5.0	5.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	6.0	0.0	0.0	.1	0.0

>AG267 BFB, 50 NG, 2uL INJ.5/27/93 HP MS#4
93

File: >AG267 Scan #: 93 Retn. time: 3.40

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
35.95	135.00	59.90	121.00	77.75	64.00	104.90	90.00	142.80	79.00
36.95	602.00	61.00	652.00	78.95	481.00	105.70	69.00	145.10	34.00
37.95	518.00	61.90	503.00	79.85	108.00	107.70	29.00	146.90	40.00
39.80	272.00	63.00	368.00	80.85	431.00	113.10	34.00	163.50	28.00
40.90	68.00	66.95	85.00	81.85	116.00	116.85	114.00	168.05	30.00
43.90	375.00	67.95	1144.00	86.85	511.00	117.85	44.00	168.25	29.00
44.90	122.00	68.85	1077.00	87.95	382.00	118.75	75.00	172.75	59.00
47.60	34.00	69.85	104.00	88.75	26.00	120.75	36.00	173.85	7956.00
49.00	486.00	71.95	109.00	90.80	120.00	123.75	34.00	174.85	567.00
49.90	2167.00	72.95	559.00	91.90	376.00	124.15	33.00	175.85	7717.00
50.90	702.00	73.95	1639.00	92.90	530.00	127.95	40.00	176.85	505.00
54.80	58.00	74.95	5602.00	93.90	1162.00	129.85	39.00	206.80	36.00
56.00	171.00	75.95	449.00	94.90	9653.00	142.30	39.00	207.00	38.00
56.90	377.00	76.95	132.00	96.00	640.00				

MS data file header from : >AG306::D3

Sample: 930005S01DL QB3FY93 Operator: TONY REG. GRP. 6/18/93 15:08
Misc : VIAL #28709, 2X DIL, 5uL/5mL PURGE
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 0 Equip ID: HP MS#4
Method file: VUA#1 Tuning file: MTMSD1 No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	10.	160.	0.	0.	0.
Chromatographic times, min. :	5.0	5.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	6.0	0.0	0.0	.1	0.0

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 1187 SAS No.: NA SDG No.:

Lab File ID: 0525BFB1 BFB Injection Date: 05/25/9

Instrument ID: INCOS V1 BFB Injection Time: 1031

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.5
75	30.0 - 60.0% of mass 95	35.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	0.2 (0.2)1
174	Greater than 50.0% of mass 95	83.5
175	5.0 - 9.0% of mass 174	7.4 (8.9)1
176	Greater than 95.0%, but less than 101.0% of mass 174	83.7 (100.2)1
177	5.0 - 9.0% of mass 176	5.4 (6.4)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	CC0525		CC0525	05/25/93	1049
02	IC050525		IC050525	05/25/93	1254
03	IC200525		IC200525	05/25/93	1429
04	IC250525		IC250525B	05/25/93	1706
05	IC100525		IC100525B	05/25/93	1754
06	0525BLK1	0525BLK1	0525BLK1	05/25/93	1843
07	0525ICHK	0525ICHK	0525ICHK	05/25/93	2019
08	93ZE33S37D	93ZE33S37D	93ZE33S37D	05/25/93	2108
09	93ZE33D37D	93ZE33D37D	93ZE33D37D	05/25/93	2156

BROMOFLUOROBENZENE

Tuning Report
05/25/93 10:31:00 + 10:54
Instrument: INCOS1
#327 -- #344
Case Number:

Data: 0525BFB1 # 327
Cali: CALI # 3
Analyst: ZAR
Laboratory:

Base m/z: 95
RIC: 47424.
Acct. No.:
Contract:

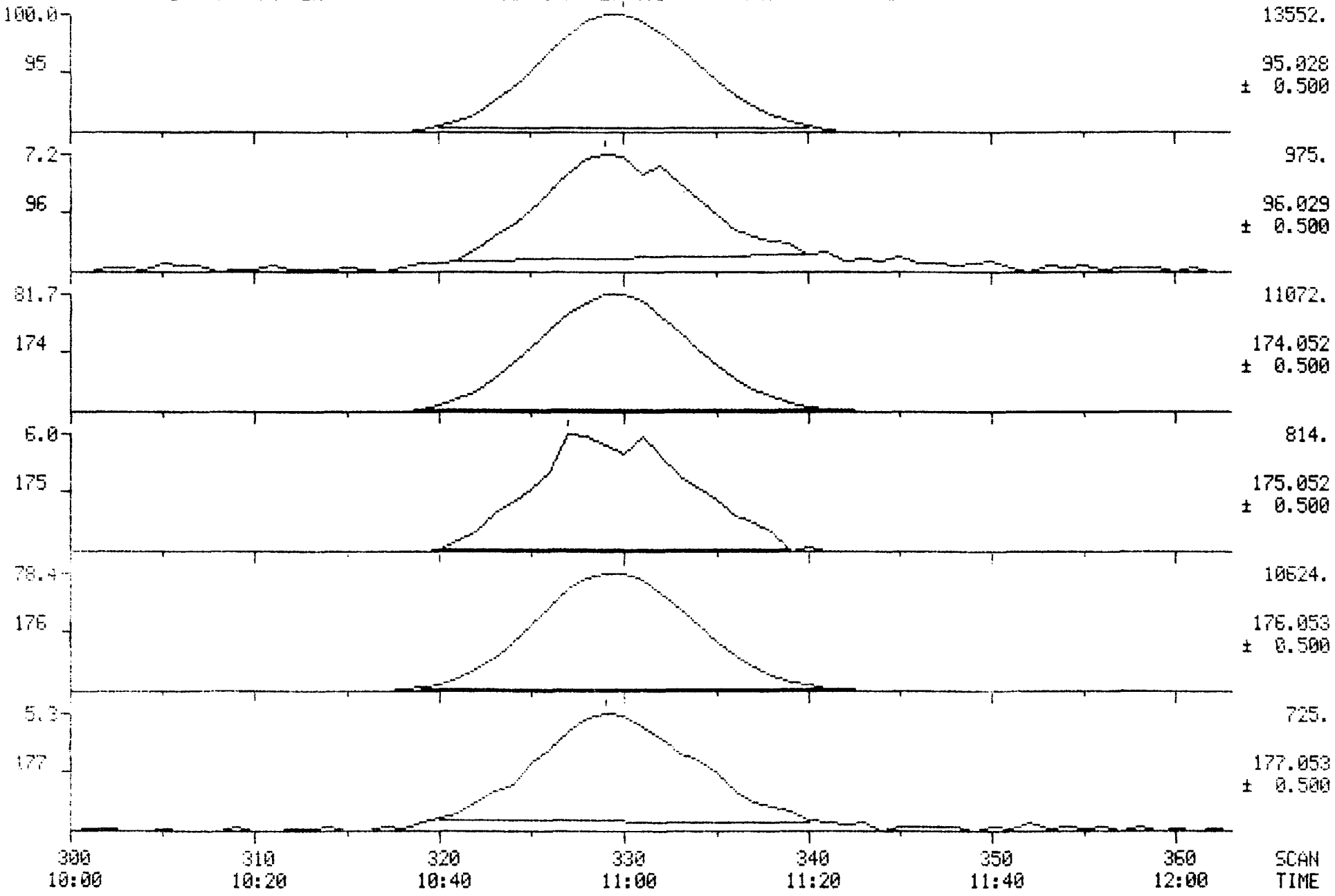
m/z	Intensity	% RA	Ion Abundance Criteria Min %	Max %	Mass	Actual	Status
50	1920.	17.5	15.0	40.0	95	17.5	PASS
75	3860	35.3	30.0	60.0	95	35.3	PASS
95	10944	100.0	100.0	---	---	100.0	PASS
96	679	6.2	5.0	9.0	95	6.2	PASS
173	16.	0.1	---	2.0	174	0.2	PASS
174	9136.	83.5	50.0	---	95	83.5	PASS
175	814.	7.4	5.0	9.0	174	8.9	PASS
176	9152.	83.6	95.0	101.0	174	100.2	PASS
177	588.	5.4	5.0	9.0	176	6.4	PASS

Mass List Data: [illegible] # 327 Base m/z: 95
05/25/93 10:31:00 + 10:54 Cali: CALI # [illegible] RIC: 47424.
Sample: BFB
Conds.:
#327 - #344

36		0.00	0.	Minima	Min	Inten:	0.
267				Maxima	#	0	
Mass		% RA	Inten.	Mass		% RA	Inten.
36?	S	1.47	161.	131	S	0.05	6.
37?		5.12	560.	141		0.16	18.
38?		4.93	539	143		0.15	16.
40?	S	0.88	96.	148		0.33	36.
41?	S	0.02	2	155		0.14	15.
43?	S	0.18	20.	169		0.25	27.
44?	S	0.07	8.	173		0.15	16.
45?	S	1.01	111.	174	S	83.48	9136.
47?	S	1.76	193.	175		7.44	814.
48?		0.77	84.	176	S	83.63	9152.
49?		2.88	315.	177	S	5.37	588.
50?	S	17.54	1920.	264	S	0.27	30.
51?	S	5.24	574	267	S	0.08	9.
52?		0.14	15.				
55?	S	0.30	33.				
56?	S	1.11	121.				
57?	S	1.28	140.				
58?	S	0.01	1.				
60?		0.48	53.				
61?	S	3.24	355.				
62?		3.07	336.				
63?		2.46	269.				
67?		0.22	24.				
68?	S	7.65	837.				
69	S	6.57	719.				
70	S	0.79	86.				
71	S	0.14	15.				
72		0.32	35.				
73	S	2.27	248.				
74	S	10.03	1098.				
75	S	35.27	3860.				
76		3.55	389.				
77		1.01	110.				
78		0.23	25.				
79	S	1.53	167.				
81	S	1.08	118.				
82	S	0.16	18.				
86	S	0.05	6.				
87	S	3.71	406				
88	S	3.06	335.				
89	S	0.01	1.				
92		1.87	205				
93		3.30	361.				
94	S	8.32	911.				
95	S	100.00	10944.				
96	S	6.20	679.				
97	S	0.01	1.				
114		0.21	23.				
117	S	0.31	34.				
119	S	0.18	20				

MASS CHROMATOGRAMS
05/25/93 10:31:00
SAMPLE: BFB
CONDS.:
RANGE: G 1, 362 LABEL: N 2, 4.0 QUAN: A 2, 4.0 J 0 BASE: U 20, 3

DATA: 0525BFB1 #327 SCANS 300 TO 363
CALI: CALI #3



5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 1187 SAS No.: NA SDG No.: NA

Lab File ID: 0526BFB1 BFB Injection Date: 05/26/93

Instrument ID: INCOS V1 BFB Injection Time: 1127

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.0
75	30.0 - 60.0% of mass 95	39.9
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	85.4
175	5.0 - 9.0% of mass 174	5.8 (6.8)1
176	Greater than 95.0%, but less than 101.0% of mass 174	82.2 (96.2)1
177	5.0 - 9.0% of mass 176	5.9 (7.2)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	CC0526B		CC0526B	05/26/93	1238
02	0526BLK2	0526BLK2	0526BLK2	05/26/93	1413
03	93ZE33D38	93ZE33D38	93ZE33D38	05/26/93	1548

BROMOFLUOROBENZENE

Tuning Report
05/26/93 11:27:00 + 11:10
Instrument: INCOS1
#329 to #341 summed - #356
Case Number:

Data: 0526BFB1 # 335
Cali: CALI # 3
Analyst: ZAR

Laboratory:

Base m/z: 95
RIC: 310784.
Acct. No.:

Contract:

m/z	Intensity	% RA	Ion Abundance Criteria Min %	Max %	Mass	Actual	Status
50	13376.	20.0	15.0	40.0	95	20.0	PASS
75	26720.	39.9	30.0	60.0	95	39.9	PASS
95	66944.	100.0	100.0	---	---	100.0	PASS
96	4176.	6.2	5.0	9.0	95	6.2	PASS
173	0.	0.0	---	2.0	174	0.0	PASS
174	57152.	85.4	50.0	---	95	85.4	PASS
175	3860.	5.8	5.0	9.0	174	6.8	PASS
176	54976.	82.1	95.0	101.0	174	96.2	PASS
177	3964.	5.9	5.0	9.0	176	7.2	PASS

Mass List
05/26/93 11:27:00 + 11:10
Sample:
Conds.: 45' (3 MIN) TO 220' @ 8'/MIN
#329 to #341 summed - #356

Data: 0526BFB1 # 335
Cali: CALI # 3

Base m/z: 95
RIC: 310784.

36 0.00 0.
281

Mass		% RA	Inten.
36?	S	1.77	1184.
37?		6.39	4280.
38?		6.37	4264.
39?		1.46	977.
41?	S	0.20	131.
44?	S	1.89	1264.
45?	S	1.27	852.
46?		0.06	38.
47?	S	1.66	1114.
48?		0.42	278.
49?		4.89	3272.
50?	S	19.98	13376.
51?		6.48	4336.
52?		0.10	69.
53?		0.02	16.
55?	S	0.24	162.
56?		2.23	1492.
57?	S	2.47	1652.
59?		0.40	268.
60?		0.23	152.
61?		3.93	2628.
62?		3.54	2368.
63?		2.50	1672.
64?		0.02	16.
65?		0.11	75.
66?		0.36	241.
67?		0.09	63.
68?		8.29	5552.
69	S	10.18	6816.
70	S	0.52	350.
71	S	0.19	128.
72		0.06	39.
73	S	3.05	2042.
74		12.38	8288.
75		39.91	26720.
76		3.71	2484.
77		0.39	261.
78		0.03	20.
79		1.85	1238.
80		0.03	20.
81	S	1.88	1260.
82		0.22	144.
83		0.26	174.
85	S	2.46	1644.
87	S	3.75	2508.
88	S	3.23	2160.
89		0.08	52.
92		1.92	1284.
93		3.57	2388.
94		8.16	5464.

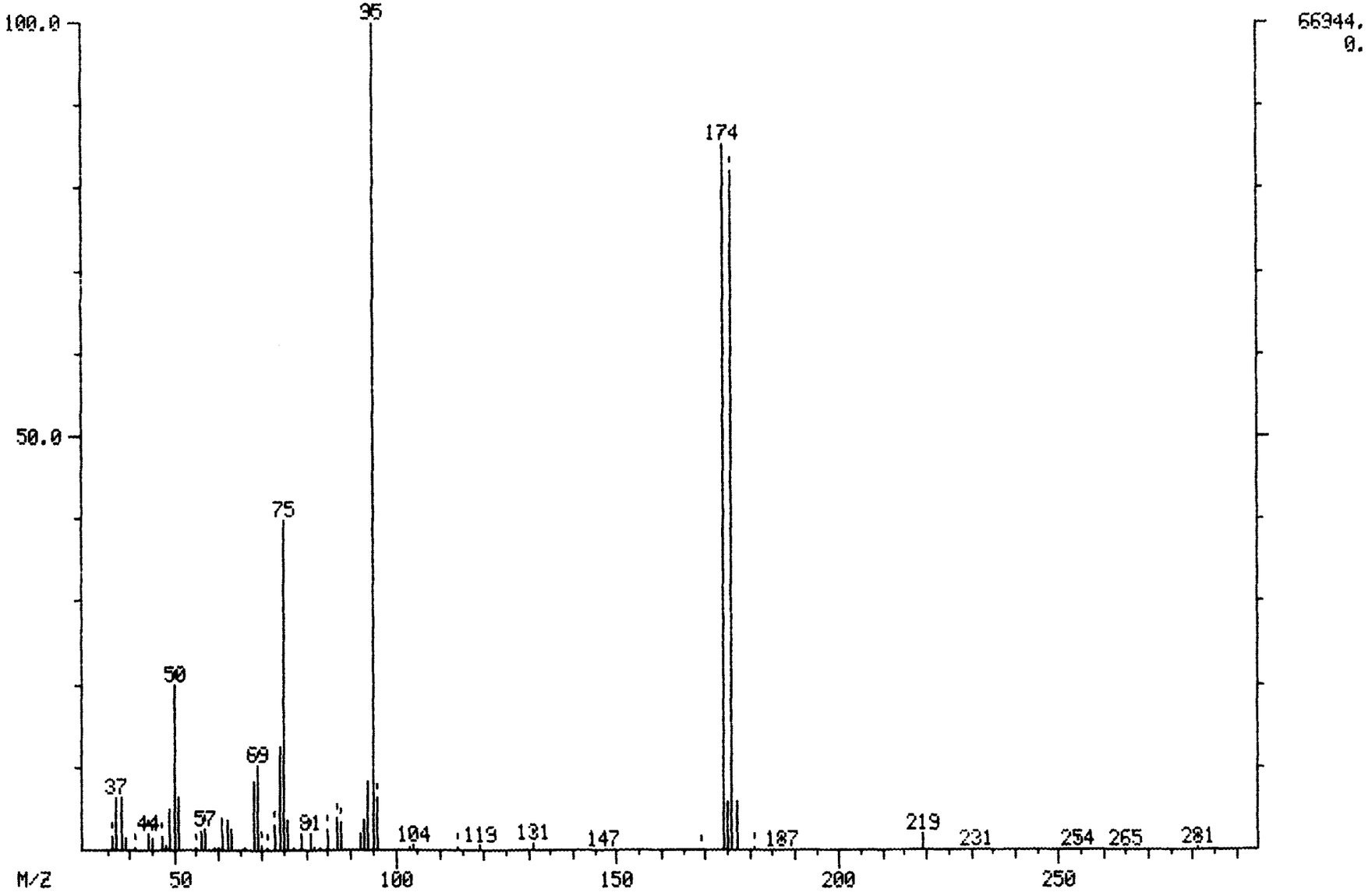
Minima Min Inten: 0.
Maxima # 0

Mass		% RA	Inten.
95	S	100.00	66944.
96	S	6.24	4176.
103		0.17	114.
104		0.53	353.
105		0.05	32.
112		0.05	34.
114	S	0.24	162.
117		0.03	20.
119	S	0.64	428.
131	S	0.93	625.
132		0.03	18.
141		0.03	18.
143		0.02	15.
147		0.03	23.
169	S	0.08	56.
174	S	85.37	57152.
175		5.77	3860.
176	S	82.12	54976.
177		5.92	3964.
181	S	0.28	189.
187	S	0.09	63.
193		0.05	31.
219	S	1.87	1254.
231		0.04	29.
238		0.10	68.
254	S	0.06	41.
265		0.03	18.
269		0.03	18.
281	S	0.24	160.

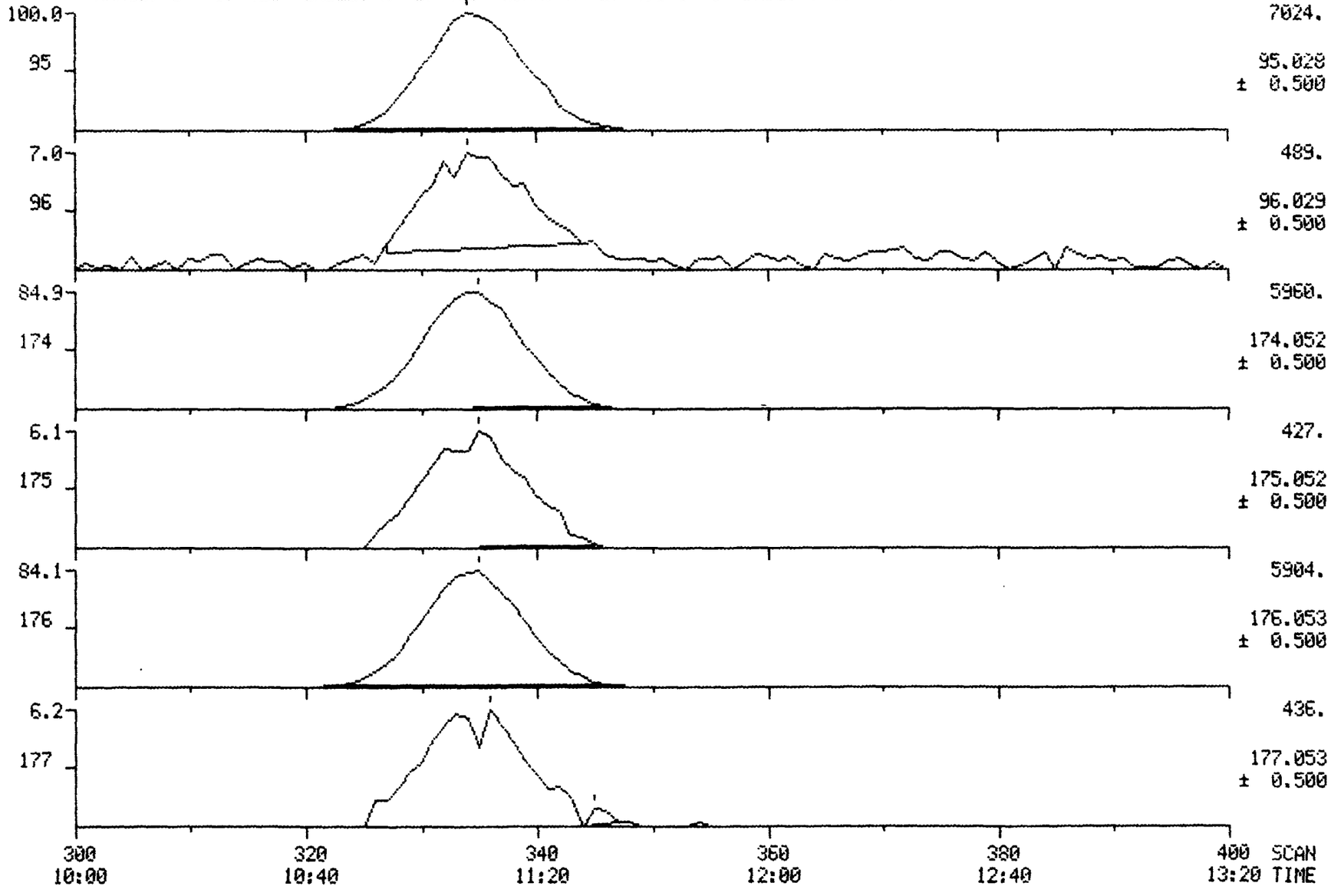
MASS SPECTRUM
05/26/93 11:27:00 + 11:10
SAMPLE:
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
TEMP: 219 DEG. C
#329 TO #341 SUMMED - #356

DATA: 0526BFB1 #335
CALI: CALI #3

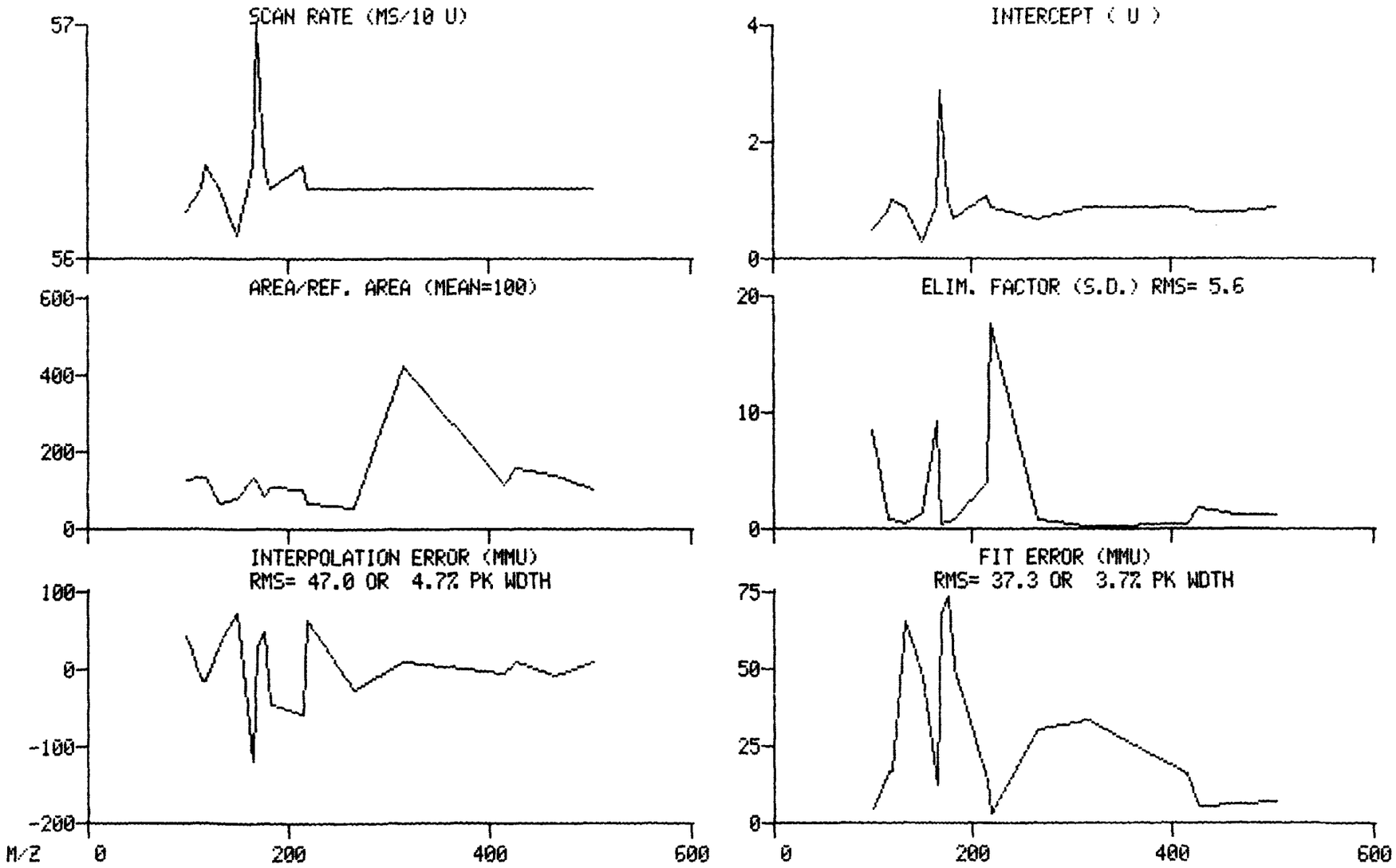
BASE M/Z: 95
RIC: 310784.



MASS CHROMATOGRAMS DATA: 0526BFB1 #329 SCANS 300 TO 400
05/26/93 11:27:00 CALI: CALI #3
SAMPLE:
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
RANGE: G 1, 426 LABEL: N 2, 4.0 QUAN: A 2, 4.0 J 0 BASE: U 20, 3



DIAGNOSTICS/FIT FITTING POINTS: 6 DATA POINTS: 17
DATA: CALI (CALI) #3 05/26/93 11:09:00 + 0:05
REFERENCE TABLE: FC43 MIN. AREA: 20
LINEAR SCAN WITH INSTRUMENT INCOS1 FROM 49 TO 650 U IN 1.7 S
SAMPLES/PEAK: 10 MILLISECONDS/SAMPLE: 0.100 PEAK WIDTH: 1000.



6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name:H. O. D. LANDFILL Contract:LOCKHEED/ESAT

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Instrument ID: HP MS#4 Calibration Date(s):05/17/93 --/--/--

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

Min $\overline{RRF}$ for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 35.0%

LAB FILE ID: RRF20 =>AG187 RRF50 =>AG188
RRF100=>AG189 RRF150=>AG190 RRF200=>AG191

COMPOUND		RRF 5	RRF 25	RRF 50	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane		.067	.125	.129	.147	.132	.120	25.7
Chloromethane	#	.094	.114	.143	.127	.115	.119	15.0#
Vinyl chloride	*	.109	.225	.224	.221	.193	.194	25.5*
Bromomethane		.095	.170	.176	.164	.140	.149	22.4
Chloroethane		.083	.119	.122	.107	.090	.104	16.5
Trichlorofluoromethane		.098	.159	.112	.098	.079	.110	27.7
Acrolein		.004	.002	.003	.003	.003	.003	20.0
1,1-Dichloroethene	*	.081	.155	.140	.133	.121	.126	22.4*
Acetone		.199	.181	.177	.175	.160	.178	7.8
Carbon disulfide		.465	.878	.935	.922	.893	.818	24.3
Methylene chloride		.121	.228	.233	.215	.181	.195	23.7
trans-1,2-Dichloroethene		.158	.309	.310	.286	.331	.279	24.9
Acrylonitrile		.065	.125	.137	.137	.126	.118	25.6
1,1-Dichloroethane	#	.088	.163	.147	.108	.106	.122	25.6#
Vinyl acetate		.083	.051	.102	.087	.081	.081	23.0
2,2-Dichloropropane		.337	.544	.595	.544	.490	.502	19.8
cis-1,2-Dichloroethene		.120	.235	.261	.257	.334	.241	32.1
2-Butanone		.102	.142	.171	.160	.149	.145	18.1
Bromochloromethane		.074	.127	.143	.144	.196	.137	32.0
Chloroform	*	.380	.582	.716	.656	.636	.594	21.7*
1,1,1-trichloroethane		.300	.654	.719	.685	.664	.604	28.5
Carbon tetrachloride		.173	.458	.521	.521	.497	.434	34.1
1,1-Dichloropropene		.248	.475	.545	.512	.500	.456	26.0
Benzene		.601	1.105	1.230	1.238	1.191	1.073	25.1
1,2-Dichloroethane	*	.357	.634	.715	.675	.623	.601	23.5*
Trichloroethene		.273	.458	.510	.500	.481	.444	22.0
1,2-Dichloropropane		.168	.317	.349	.337	.322	.299	24.7
Dibromomethane		.121	.290	.315	.307	.290	.265	30.7
2-Chloroethyl vinylether		.038	.064	.069	.069	.066	.061	21.8
Bromodichloromethane		.290	.561	.608	.603	.563	.525	25.4
cis-1,3-dichloropropene		.273	.541	.583	.581	.545	.505	25.9
Toluene	*	.325	.643	.718	.714	.694	.619	26.9*
4-Methyl-2-pentanone		.196	.343	.359	.349	.322	.314	21.4
trans-1,3-Dichloropropene		.240	.494	.544	.540	.506	.465	27.4
Tetrachloroethene		.164	.354	.387	.374	.366	.329	28.3
1,1,2-Trichloroethane		.007	.027	.028	.028	.027	.023	40.0
1,3-Dichloropropane		.251	.522	.557	.548	.517	.479	26.8

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name:H. O. D. LANDFILL Contract:LOCKHEED/ESAT

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Instrument ID: HP MS#4 Calibration Date(s):05/17/93 --/--/--

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

Min $\overline{RRF}$ for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 35.0%

LAB FILE ID: RRF20 =>AG187 RRF50 =>AG188
RRF100=>AG189 RRF150=>AG190 RRF200=>AG191

COMPOUND	RRF 5	RRF 25	RRF 50	RRF100	RRF150	$\overline{RRF}$	% RSD
2-Hexanone	.170	.248	.255	.250	.236	.232	15.3
Dibromochloromethane	.171	.388	.428	.423	.408	.364	29.9
1,2-Dibromoethane	.176	.345	.382	.387	.358	.329	26.5
Chlorobenzene #	.485	.956	1.068	1.085	1.013	.921	27.1#
1,1,1,2-Tetrachloroethane	.191	.390	.431	.439	.397	.370	27.6
Ethylbenzene *	.841	1.768	1.974	2.010	1.869	1.692	28.7*
m &/or p-Xylene	.280	.572	.645	.650	.612	.552	28.1
o-Xylene	.278	.528	.592	.600	.564	.512	26.2
Styrene	.420	.859	.998	1.034	.955	.853	29.4
Bromoform #	.144	.321	.368	.395	.352	.316	31.5#
Isopropylbenzene	.781	1.584	1.849	1.865	1.754	1.567	28.9
Bromobenzene	.227	.464	.515	.523	.487	.443	27.8
1,2,3-Trichloropropane	.248	.464	.495	.499	.435	.428	24.3
1,1,2,2-Tetrachloroethane	.177	.341	.350	.380	.299	.310	25.7
n-Propylbenzene	.181	.386	.437	.447	.420	.374	29.6
2-Chlorotoluene	.181	.354	.405	.409	.376	.345	27.3
4-Chlorotoluene	.184	.379	.421	.432	.393	.362	28.1
1,3,5-Trimethylbenzene	.711	1.416	1.598	1.625	1.507	1.371	27.6
tert-Butylbenzene	.525	1.121	1.245	1.260	1.173	1.065	28.8
1,2,4-Trimethylbenzene	.764	1.390	1.609	1.651	1.513	1.385	26.1
sec-Butylbenzene	.756	1.665	1.902	1.970	1.866	1.632	30.8
1,3-Dichlorobenzene	.427	.791	.899	.931	.845	.779	26.2
1,4-Dichlorobenzene	.450	.823	.942	.974	.865	.811	26.0
p-Isopropyltoluene	.689	1.426	1.647	1.655	1.532	1.390	29.0
1,2-Dichlorobenzene	.414	.743	.854	.886	.786	.737	25.7
n-Butylbenzene	.765	1.481	1.664	1.719	1.608	1.447	27.1
1,2-Dibromo-3-chloropropane	.060	.105	.111	.123	.093	.098	24.3
1,2,4-Trichlorobenzene	.334	.530	.583	.605	.522	.515	20.8
Naphthalene	.732	1.089	1.190	1.287	1.047	1.069	19.6
Hexachlorobutadiene	.212	.377	.397	.400	.338	.345	22.7
1,2,3-Trichlorobenzene	.325	.503	.550	.583	.488	.490	20.3
Benzene-d6	1.021	.985	.978	.946	.963	.979	2.8
p-Bromofluorobenzene	.501	.484	.487	.487	.496	.491	1.5
1,2-Dichlorobenzene	.551	.496	.500	.520	.493	.512	4.7

Calibration Report

Title: VOC 74 COMPOUNDS
Calibrated: 930615 17:35

Compound	Files: >AG187 RF 5.00	>AG188 RF 25.00	>AG189 RF 50.00	>AG190 RF 100.00	>AG191 RF 150.00	RRT	RF	% RSD	
Dichlorodifluoromethane	.06675	.12535	.12885	.14679	.13240	.194	.12003	25.728	(Conc=10.0,25.0,50.0,100.0,150.0)
Chloromethane	.09431	.11437	.14253	.12717	.11467	.224	.11861	15.021	(Conc=10.0,25.0,50.0,100.0,150.0)
Vinyl chloride	.10878	.22483	.22349	.22072	.19306	.245	.19418	25.487	(Conc=10.0,25.0,50.0,100.0,150.0)
Bromomethane	.09459	.17043	.17606	.16415	.14008	.306	.14906	22.404	(Conc=10.0,25.0,50.0,100.0,150.0)
Chloroethane	.08290	.11856	.12197	.10725	.09039	.331	.10421	16.452	(Conc=10.0,25.0,50.0,100.0,150.0)
Trichlorofluoromethane	.09823	.15942	.11221	.09808	.07936	.382	.10946	27.654	(Conc=10.0,25.0,50.0,100.0,150.0)
Acrolein	.00368	.00205	.00331	.00330	.00314	.495	.00310	19.978	(Conc=25.0,125.0,250.0,500.0,750.0
1,1-Dichloroethene	.08079	.15503	.14043	.13317	.12061	.496	.12601	22.359	
Acetone	.19887	.18073	.17722	.17522	.16003	.536	.17841	7.792	(Conc=25.0,125.0,250.0,500.0,750.0
Carbon disulfide	.46493	.87785	.93519	.92156	.89253	.517	.81841	24.304	
Methylene chloride	.12073	.22785	.23258	.21522	.18085	.608	.19545	23.746	
trans-1,2-Dichloroethene	.15781	.30944	.31029	.28625	.33062	.654	.27888	24.914	
Acrylonitrile	.06513	.12464	.13752	.13689	.12615	.666	.11807	25.561	(Conc=25.0,125.0,250.0,500.0,750.0
1,1-Dichloroethane	.08750	.16291	.14655	.10792	.10584	.730	.12214	25.648	
Vinyl acetate	.08332	.05088	.10163	.08690	.08053	.755	.08065	22.970	(Conc=10.0,50.0,100.0,200.0,300.0)
2,2-Dichloropropane	.33686	.54422	.59489	.54423	.49024	.819	.50209	19.818	
cis-1,2-Dichloroethene	.11980	.23510	.26066	.25731	.33422	.827	.24142	32.130	
2-Butanone	.10211	.14224	.17074	.16021	.14910	.842	.14488	18.122	(Conc=25.0,125.0,250.0,500.0,750.0
Bromochloromethane	.07366	.12738	.14311	.14451	.19585	.862	.13690	31.967	
Chloroform	.37972	.58174	.71637	.65557	.63601	.883	.59388	21.727	
1,1,1-Trichloroethane	.29964	.65423	.71884	.68459	.66421	.895	.60430	28.478	
Carbon tetrachloride	.17328	.45824	.52081	.52088	.49724	.918	.43409	34.100	
1,1-Dichloropropene	.24844	.47512	.54506	.51150	.50016	.922	.45605	26.039	
BENZENE-D6	1.02068	.98470	.97825	.94596	.96330	.947	.97858	2.848	(Conc=10.0,10.0,10.0,10.0,10.0)
Benzene	.60056	1.10484	1.23020	1.23764	1.19065	.952	1.07278	25.094	
1,2-Dichloroethane	.35690	.63366	.71471	.67549	.62272	.963	.60070	23.484	
Trichloroethene	.27295	.45757	.51055	.49982	.48077	.851	.44433	22.033	
1,2-Dichloropropane	.16843	.31646	.34850	.33728	.32214	.879	.29856	24.729	
Dibromomethane	.12073	.29052	.31542	.30708	.28974	.894	.26469	30.686	
2-Chloroethyl vinylether	.03751	.06401	.06892	.06884	.06633	.961	.06112	21.850	(Conc=,25.0,50.0,100.0,150.0)
Bromodichloromethane	.29021	.56138	.60840	.60319	.56250	.918	.52514	25.357	
cis-1,3-Dichloropropene	.27327	.54073	.58311	.58106	.54545	.973	.50472	25.927	(Conc=2.52,12.6,25.2,50.4,75.6)
Toluene	.32541	.64321	.71840	.71419	.69411	1.008	.61906	26.953	
4-Methyl-2-pentanone	.19634	.34299	.35853	.34935	.32218	.998	.31388	21.362	(Conc=10.0,50.0,100.0,200.0,300.0)
trans-1,3-Dichloropropene	.24029	.49391	.54370	.54039	.50564	1.044	.46478	27.397	(Conc=2.23,11.1,22.3,44.6,66.9)
Tetrachloroethene	.16406	.35390	.38693	.37364	.36641	1.073	.32899	28.259	
1,1,2-Trichloroethane	.00668	.02656	.02815	.02826	.02675	1.065	.02328	39.999	
1,3-Dichloropropane	.25092	.52162	.55681	.54756	.51743	1.084	.47887	26.838	
2-Hexanone	.16978	.24805	.25530	.25003	.23565	1.102	.23176	15.270	(Conc=10.0,50.0,100.0,200.0,300.0)

RF - Response Factor (Subscript is amount in UG/L)

RRT - Average Relative Retention Time (RT Std/RT Istd)

RF - Average Response Factor

%RSD - Percent Relative Standard Deviation

Calibration Report

Title: VOC 74 COMPOUNDS
Calibrated: 930615 17:35

Compound	Files: >AG187 RF 5.00	>AG188 RF 25.00	>AG189 RF 50.00	>AG190 RF 100.00	>AG191 RF 150.00	RRT	RF	% RSD	
Dibromochloromethane	.17140	.38786	.42813	.42253	.40807	1.111	.36360	29.858	
1,2-Dibromoethane	.17617	.34505	.38173	.38665	.35751	1.121	.32942	26.522	
Chlorobenzene	.48462	.95636	1.06793	1.08516	1.01353	1.003	.92152	27.063	
1,1,1,2-Tetrachloroethane	.19108	.38996	.43078	.43879	.39741	1.015	.36961	27.587	
Ethylbenzene	.84111	1.76795	1.97388	2.01005	1.86924	1.017	1.69245	28.671	
m &/or p-Xylene	.28012	.57247	.64553	.65044	.61232	1.031	.55218	28.117	(Conc=10.0,50.0,100.0,200.0,300.0)
o-Xylene	.27784	.52780	.59186	.60047	.56360	1.073	.51232	26.178	
Styrene	.41979	.85866	.99824	1.03389	.95490	1.076	.85310	29.416	
Bromoform	.14418	.32122	.36798	.39482	.35197	1.095	.31603	31.546	
Isopropylbenzene	.78145	1.58378	1.84947	1.86496	1.75378	1.116	1.56669	28.914	
p-BROMOFLUOROBENZENE	.50129	.48416	.48703	.48722	.49600	1.132	.49114	1.467	(Conc=10.0,10.0,10.0,10.0,10.0)
Bromobenzene	.22693	.46387	.51463	.52272	.48704	1.145	.44304	27.770	
1,2,3-Trichloropropane	.24788	.46398	.49509	.49945	.43462	1.158	.42820	24.322	
1,1,2,2-Tetrachloroethane	.17717	.34084	.35022	.38039	.29918	1.157	.30956	25.682	
n-Propylbenzene	.18065	.38645	.43699	.44725	.42044	1.163	.37435	29.574	
2-Chlorotoluene	.18145	.35391	.40468	.40915	.37572	1.169	.34498	27.288	
4-Chlorotoluene	.18368	.37904	.42097	.43175	.39312	1.182	.36171	28.125	
1,3,5-Trimethylbenzene	.71057	1.41580	1.59801	1.62466	1.50654	1.184	1.37112	27.590	
tert-Butylbenzene	.52492	1.12056	1.24513	1.26049	1.17339	1.220	1.06490	28.836	
1,2,4-Trimethylbenzene	.76380	1.38965	1.60930	1.65109	1.51263	1.226	1.38529	26.110	
sec-Butylbenzene	.75613	1.66476	1.90179	1.97002	1.86596	1.245	1.63173	30.795	
1,3-Dichlorobenzene	.42657	.79070	.89944	.93130	.84542	1.254	.77869	26.197	
1,4-Dichlorobenzene	.44993	.82327	.94209	.97411	.86453	1.265	.81079	25.958	
p-Isopropyltoluene	.68917	1.42591	1.64653	1.65483	1.53188	1.264	1.38966	28.975	
1,2-DICHLOROBENZENE-D4	.55096	.49616	.50033	.51953	.49338	1.305	.51207	4.692	(Conc=10.0,10.0,10.0,10.0,10.0)
1,2-Dichlorobenzene	.41373	.74269	.85405	.88569	.78651	1.307	.73654	25.653	
n-Butylbenzene	.76496	1.48085	1.66439	1.71878	1.60772	1.312	1.44734	27.054	
1,2-Dibromo-3-chloropropane	.06037	.10549	.11117	.12274	.09279	1.400	.09851	24.255	
1,2,4-Trichlorobenzene	.33357	.52964	.58281	.60532	.52193	1.496	.51466	20.822	
Naphthalene	.73214	1.08922	1.18975	1.28665	1.04717	1.523	1.06899	19.640	
Hexachlorobutadiene	.21204	.37694	.39657	.39987	.33756	1.518	.34460	22.676	
1,2,3-Trichlorobenzene	.32492	.50336	.54984	.58275	.48855	1.552	.48988	20.315	

RF - Response Factor (Subscript is amount in UG/L)

RRT - Average Relative Retention Time (RT Std/RT Istd)

RF - Average Response Factor

%RSD - Percent Relative Standard Deviation

FMGR : CBCAL,CBAG02,IDAG05,,A

Calib File: CBAG02::SC
Title: VOC 74 COMPOUNDS
Units: UG/L
Last Edit: 930423 08:31
Last Calib: 930615 17:35

ID File: IDAG05::QI
Title: ID FILE FOR 624 VOC METHOD
Units: ug/L
Last Edit: 930422 15:05
Last Calib: 930518 10:10

Correct Files ? Y

Calibrating...

1)	Dichlorodifluoromethane	Avg RF: .12003
2)	Chloromethane	Avg RF: .11861
3)	Vinyl chloride	Avg RF: .19418
4)	Bromomethane	Avg RF: .14906
5)	Chloroethane	Avg RF: .10421
6)	Trichlorofluoromethane	Avg RF: .10946
7)	Acrolein	Avg RF: .00310
8)	1,1-Dichloroethene	Avg RF: .12601
9)	Acetone	Avg RF: .17841
10)	Carbon disulfide	Avg RF: .81841
11)	Methylene chloride	Avg RF: .19545
12)	trans-1,2-Dichloroethene	Avg RF: .27888
13)	Acrylonitrile	Avg RF: .11807
14)	1,1-Dichloroethane	Avg RF: .12214
15)	Vinyl acetate	Avg RF: .08065
16)	2,2-Dichloropropane	Avg RF: .50209
17)	cis-1,2-Dichloroethene	Avg RF: .24142
18)	2-Butanone	Avg RF: .14488
19)	Bromochloromethane	Avg RF: .13690
20)	Chloroform	Avg RF: .59388
21)	1,1,1-Trichloroethane	Avg RF: .60430
22)	Carbon tetrachloride	Avg RF: .43409
23)	1,1-Dichloropropene	Avg RF: .45605
24)	BENZENE-D6	Avg RF: .97858
25)	Benzene	Avg RF: 1.07278
26)	1,2-Dichloroethane	Avg RF: .60070
27)	Trichloroethene	Avg RF: .44433
28)	1,2-Dichloropropane	Avg RF: .29856
29)	Dibromomethane	Avg RF: .26469
30)	2-Chloroethyl vinylether	Avg RF: .06112
31)	Bromodichloromethane	Avg RF: .52514
32)	cis-1,3-Dichloropropene	Avg RF: .50472
33)	Toluene	Avg RF: .61906
34)	4-Methyl-2-pentanone	Avg RF: .31388
35)	trans-1,3-Dichloropropene	Avg RF: .46478
36)	Tetrachloroethene	Avg RF: .32899
37)	1,1,2-Trichloroethane	Avg RF: .02328
38)	1,3-Dichloropropane	Avg RF: .47887
39)	2-Hexanone	Avg RF: .23176
40)	Dibromochloromethane	Avg RF: .36360
41)	1,2-Dibromoethane	Avg RF: .32942
42)	Chlorobenzene	Avg RF: .92152
43)	1,1,1,2-Tetrachloroethane	Avg RF: .36961
44)	Ethylbenzene	Avg RF: 1.69245
45)	m,p-Xylene	Avg RF: [illegible]

46)	o-Xylene	Avg RF: .51232
47)	Styrene	Avg RF: .85310
48)	Bromoform	Avg RF: .31603
49)	Isopropylbenzene	Avg RF: 1.56669
50)	p-BROMOFLUOROBENZENE	Avg RF: .49114
51)	Bromobenzene	Avg RF: .44304
52)	1,2,3-Trichloropropane	Avg RF: .42820
53)	1,1,2,2-Tetrachloroethane	Avg RF: .30956
54)	n-Propylbenzene	Avg RF: .37435
55)	2-Chlorotoluene	Avg RF: .34498
56)	4-Chlorotoluene	Avg RF: .36171
57)	1,3,5-Trimethylbenzene	Avg RF: 1.37112
58)	tert-Butylbenzene	Avg RF: 1.06490
59)	1,2,4-Trimethylbenzene	Avg RF: 1.38529
60)	sec-Butylbenzene	Avg RF: 1.63173
61)	1,3-Dichlorobenzene	Avg RF: .77869
62)	1,4-Dichlorobenzene	Avg RF: .81079
63)	p-Isopropyltoluene	Avg RF: 1.38966
64)	1,2-DICHLOROBENZENE-D4	Avg RF: .51207
65)	1,2-Dichlorobenzene	Avg RF: .73654
66)	n-Butylbenzene	Avg RF: 1.44734
67)	1,2-Dibromo-3-chloropropane	Avg RF: .09851
68)	1,2,4-Trichlorobenzene	Avg RF: .51466
69)	Naphthalene	Avg RF: 1.06899
70)	Hexachlorobutadiene	Avg RF: .34460
71)	1,2,3-Trichlorobenzene	Avg RF: .48988

Calibration Time Stamp Updated: 930615 17:37

Operator ID: TUNY Quant Rev: 7 Quant Time: 930517 16:55
Output File: ^AG187::D2 Injected at: 930517 16:22
Data File: >AG187::D5 Dilution Factor: 1.00000
Name: VOASTD 5PPB Instrument ID: HP MS#4
Misc: 05/17/93 #3

ID File: IDAG05::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930514 14:17 Last Qcal Time: 930514 15:17

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.03	96.0	28047	10.00	ug/L	97
2)	Dichlorodifluoromethane	2.55	85.0	1872M	3.98	ug/L	60
3)	Chloromethane	2.94	50.0	2645M	6.49	ug/L	95
4)	Vinyl chloride	3.21	62.0	3051M	4.55	ug/L	86
5)	Bromomethane	4.04	94.0	2653M	6.18	ug/L	88
6)	Chloroethane	4.37	64.0	2325M	8.33	ug/L	
7)	Trichlorofluoromethane	5.00	101.0	2755M	3.49	ug/L	93
8)	Acrolein	6.47	56.0	258M	28.16	ug/L	
9)	1,1-Dichloroethene	6.54	96.0	1133M	1.29	ug/L	
10)	Acetone	6.99	43.0	13944M	26.53	ug/L	99
11)	Carbon disulfide	6.81	76.0	6520M	4.25	ug/L	
12)	Methylene chloride	7.97	84.0	1693M	3.61	ug/L	
13)	trans-1,2-Dichloroethene	8.58	96.0	2213	2.54	ug/L	97
14)	Acrylonitrile	8.73	53.0	4567	18.51	ug/L	92
15)	1,1-Dichloroethane	9.58	63.0	1227M	.792	ug/L	
16)	Vinyl acetate	9.92	43.0	2337M	17.95	ug/L	
17)	2,2-Dichloropropane	10.74	77.0	4724M	4.42	ug/L	97
18)	cis-1,2-Dichloroethene	10.85	96.0	1680	2.21	ug/L	78
19)	2-Butanone	11.03	43.0	7160	14.25	ug/L	93
20)	Bromochloromethane	11.29	128.0	1033M	2.74	ug/L	
21)	Chloroform	11.58	83.0	5325M	3.88	ug/L	69
22)	1,1,1-Trichloroethane	11.71	97.0	4202	3.72	ug/L	94
23)	Carbon tetrachloride	12.00	117.0	2430	3.90	ug/L	81
24)	1,1-Dichloropropene	12.03	75.0	3484	3.86	ug/L	86
25)	BENZENE-D6	12.35	84.0	28627	13.98	ug/L	98
26)	Benzene	12.42	78.0	8422	3.03	ug/L	91
27)	1,2-Dichloroethane	12.57	62.0	5005M	3.32	ug/L	88
28)	*TOLUENE-D8	16.21	98.0	30233	10.00	ug/L	97
29)	Trichloroethene	13.75	95.0	4126	3.95	ug/L	85
30)	1,2-Dichloropropane	14.19	63.0	2546M	2.73	ug/L	
31)	Dibromomethane	14.45	174.0	1825M	2.23	ug/L	94
32)	2-Chloroethyl vinylether	15.60	63.0	567M	7.85	ug/L	
33)	Bromodichloromethane	14.86	83.0	4387	2.93	ug/L	98
34)	cis-1,3-Dichloropropene	15.76	75.0	2082	1.36	ug/L	78
35)	Toluene	16.35	92.0	4919	2.58	ug/L	92
36)	4-Methyl-2-pentanone	16.19	43.0	5936	6.09	ug/L	95
37)	trans-1,3-Dichloropropene	16.94	75.0	1620M	1.23	ug/L	
38)	Tetrachloroethene	17.42	166.0	2480	2.34	ug/L	96
39)	1,1,2-Trichloroethane	17.28	132.0	101M	1.30	ug/L	
40)	1,3-Dichloropropane	17.60	76.0	3793	2.78	ug/L	94

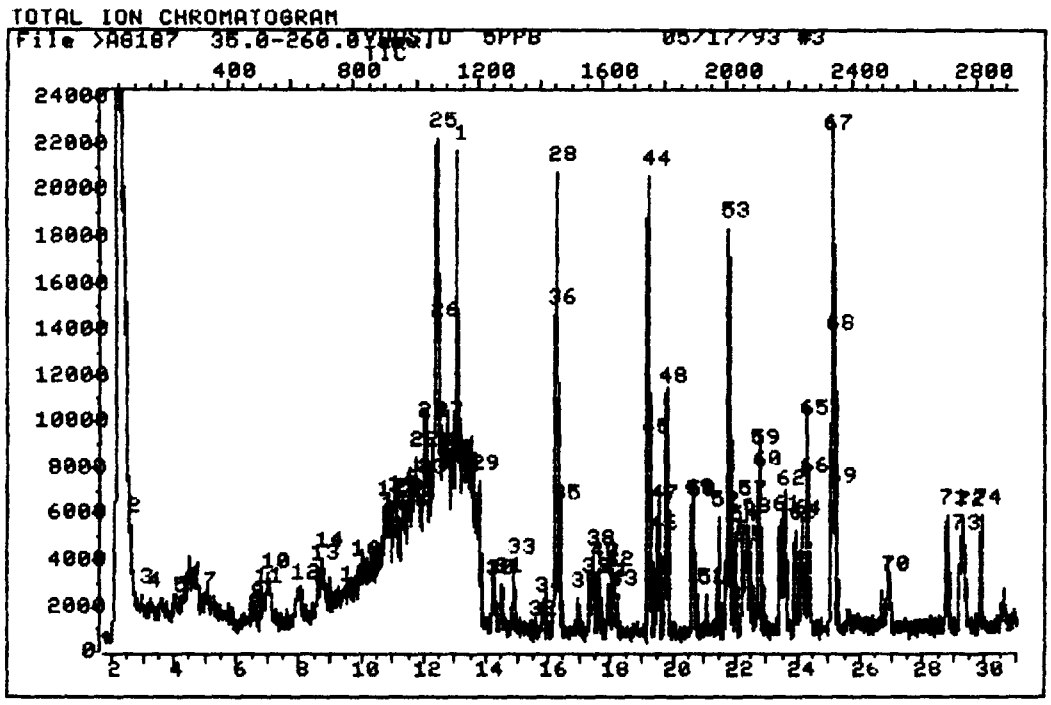
Operator ID: TONY
Output File: ^AG187::D2
Data File: >AG187::D5
Name: VOASTD 5PPB
Misc: 05/17/93 #3

Quant Rev: 7
Quant Time: 930517 16:55
Injected at: 930517 16:22
Dilution Factor: 1.00000
Instrument ID: HP MS#4

ID File: IDAG05::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930514 14:17
Last Qcal Time: 930514 15:17

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	2-Hexanone	17.91	43.0	5133M	5.75	ug/L	84
42)	Dibromochloromethane	18.05	129.0	2591	2.39	ug/L	94
43)	1,2-Dibromoethane	18.20	107.0	2663	2.79	ug/L	88
44)	*CHLOROBENZENE-D5	19.18	117.0	22430	10.00	ug/L	93
45)	Chlorobenzene	19.23	112.0	5435	2.54	ug/L	96
46)	1,1,1,2-Tetrachloroethane	19.46	131.0	2143	2.69	ug/L	82
47)	Ethylbenzene	19.51	91.0	9433	2.49	ug/L	86
48)	m &/or p-Xylene	19.77	106.0	6283	4.92	ug/L	77
49)	o-Xylene	20.61	106.0	3116	2.58	ug/L	99
50)	Styrene	20.65	104.0	4708	2.44	ug/L	84
51)	Bromoform	21.02	173.0	1617M	2.26	ug/L	
52)	Isopropylbenzene	21.42	105.0	8764	2.47	ug/L	91
53)	p-BROMOFLUOROBENZENE	21.73	174.0	11244	10.09	ug/L	97
54)	Bromobenzene	21.99	156.0	2545	2.49	ug/L	98
55)	1,2,3-Trichloropropane	22.23	75.0	2780	3.41	ug/L	85
56)	1,1,2,2-Tetrachloroethane	22.21	83.0	1987	1.92	ug/L	89
57)	n-Propylbenzene	22.32	120.0	2026	2.29	ug/L	99
58)	2-Chlorotoluene	22.45	126.0	2035	2.56	ug/L	96
59)	4-Chlorotoluene	22.71	126.0	2060	2.50	ug/L	87
60)	1,3,5-Trimethylbenzene	22.75	105.0	7969	2.64	ug/L	71
61)	tert-Butylbenzene	23.43	119.0	5887	2.35	ug/L	87
62)	1,2,4-Trimethylbenzene	23.55	105.0	8566	2.83	ug/L	81
63)	sec-Butylbenzene	23.92	105.0	8480	2.22	ug/L	92
64)	1,3-Dichlorobenzene	24.08	146.0	4784	2.69	ug/L	93
65)	1,4-Dichlorobenzene	24.31	146.0	5046	2.81	ug/L	93
66)	p-Isopropyltoluene	24.27	119.0	7729	2.47	ug/L	85
67)	1,2-DICHLOROBENZENE-D4	25.07	152.0	12358	10.80	ug/L	90
68)	1,2-Dichlorobenzene	25.11	146.0	4640	2.80	ug/L	90
69)	n-Butylbenzene	25.20	91.0	8579	2.76	ug/L	84
70)	1,2-Dibromo-3-chloropropane	26.90	157.0	677	3.03	ug/L	92
71)	1,2,4-Trichlorobenzene	28.75	180.0	3741	3.22	ug/L	94
72)	Naphthalene	29.26	128.0	8211	4.46	ug/L	100
73)	Hexachlorobutadiene	29.18	225.0	2378	2.98	ug/L	97
74)	1,2,3-Trichlorobenzene	29.82	180.0	3644	3.31	ug/L	94

* Compound is ISTD



Data File: >AG187::D5 Quant Output File: ^AG187::D2
Name: VOASTD 5PPB Instrument ID: HP MS#4
Misc: 05/17/93 #3

Id File: IDAG05::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930514 14:17 Last Qcal Time: 930514 15:17

Operator ID: TONY
Quant Time : 930517 16:55
Injected at: 930517 16:22

QUANT REPORT

Operator ID: TONY
Output File: ^AG188::D2
Data File: >AG188::D5
Name: VOASTD 25PPB
Misc: 05/17/93 #4

Quant Rev: 7
Quant Time: 930517 17:35
Injected at: 930517 17:02
Dilution Factor: 1.00000
Instrument ID: HP MS#4

ID File: IDAG05::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930514 14:17
Last Qcal Time: 930514 15:17

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.14	96.0	36873	10.00	ug/L	97
2)	Dichlorodifluoromethane	2.54	85.0	11555	18.66	ug/L	96
3)	Chloromethane	2.94	50.0	10543	19.68	ug/L	94
4)	Vinyl chloride	3.22	62.0	20725	23.49	ug/L	97
5)	Bromomethane	4.03	94.0	15711	27.83	ug/L	99
6)	Chloroethane	4.35	64.0	10929	29.80	ug/L	93
7)	Trichlorofluoromethane	5.02	101.0	14696	14.18	ug/L	96
8)	Acrolein	6.47	56.0	944M	78.37	ug/L	
9)	1,1-Dichloroethene	6.51	96.0	14291	12.36	ug/L	78
10)	Acetone	6.99	43.0	83299	120.53	ug/L	93
11)	Carbon disulfide	6.80	76.0	80922	40.14	ug/L	98
12)	Methylene chloride	7.97	84.0	21004	34.11	ug/L	91
13)	trans-1,2-Dichloroethene	8.58	96.0	28525	24.89	ug/L	93
14)	Acrylonitrile	8.72	53.0	57447	177.11	ug/L	92
15)	1,1-Dichloroethane	9.58	63.0	15017	7.37	ug/L	97
16)	Vinyl acetate	9.90	43.0	9380	54.80	ug/L	100
17)	2,2-Dichloropropane	10.75	77.0	50168	35.67	ug/L	95
18)	cis-1,2-Dichloroethene	10.86	96.0	21672	21.69	ug/L	91
19)	2-Butanone	11.04	43.0	65562	99.23	ug/L	82
20)	Bromochloromethane	11.32	128.0	11742	23.67	ug/L	95
21)	Chloroform	11.60	83.0	53626	29.75	ug/L	98
22)	1,1,1-Trichloroethane	11.76	97.0	60309	40.60	ug/L	96
23)	Carbon tetrachloride	12.06	117.0	42242	51.60	ug/L	93
24)	1,1-Dichloropropene	12.13	75.0	43798	36.94	ug/L	98
25)	BENZENE-D6	12.45	84.0	36309	13.48	ug/L	99
26)	Benzene	12.52	78.0	101847	27.85	ug/L	96
27)	1,2-Dichloroethane	12.67	62.0	58412	29.48	ug/L	99
28)	*TOLUENE-D8	16.28	98.0	35863	10.00	ug/L	95
29)	Trichloroethene	13.88	95.0	41025	33.11	ug/L	85
30)	1,2-Dichloropropane	14.32	63.0	28373	25.60	ug/L	99
31)	Dibromomethane	14.57	174.0	26047	26.85	ug/L	98
32)	2-Chloroethyl vinylether	15.64	63.0	5739	66.95	ug/L	89
33)	Bromodichloromethane	14.96	83.0	50332	28.30	ug/L	94
34)	cis-1,3-Dichloropropene	15.84	75.0	24434	13.43	ug/L	92
35)	Toluene	16.41	92.0	57669	25.48	ug/L	92
36)	4-Methyl-2-pentanone	16.23	43.0	61503	53.21	ug/L	95
37)	trans-1,3-Dichloropropene	17.00	75.0	19750	12.65	ug/L	98
38)	Tetrachloroethene	17.47	166.0	31730	25.20	ug/L	97
39)	1,1,2-Trichloroethane	17.34	132.0	2381	25.90	ug/L	99
40)	1,3-Dichloropropane	17.64	76.0	46767	28.86	ug/L	92

Operator ID: TONY
Output File: ^AG188::D2
Data File: >AG188::D5
Name: VOASTD 25PPB
Misc: 05/17/93 #4

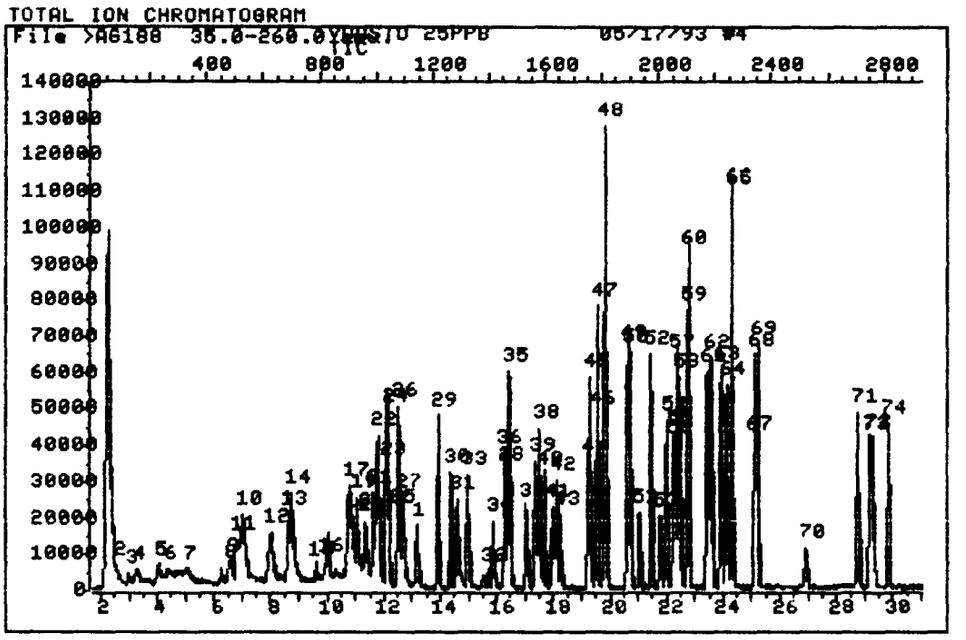
Quant Rev: 7
Quant Time: 930517 17:35
Injected at: 930517 17:02
Dilution Factor: 1.00000
Instrument ID: HP MS#4

ID File: IDAG05::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930514 14:17
Last Qcal Time: 930514 15:17

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	2-Hexanone	17.93	43.0	44479	41.99	ug/L	96
42)	Dibromochloromethane	18.09	129.0	34775	27.09	ug/L	95
43)	1,2-Dibromoethane	18.24	107.0	30936	27.35	ug/L	97
44)	*CHLOROBENZENE-D5	19.21	117.0	27179	10.00	ug/L	97
45)	Chlorobenzene	19.26	112.0	64982	25.09	ug/L	89
46)	1,1,1,2-Tetrachloroethane	19.48	131.0	26497	27.43	ug/L	94
47)	Ethylbenzene	19.53	91.0	120128	26.20	ug/L	93
48)	m &/or p-Xylene	19.79	106.0	77796	50.23	ug/L	75
49)	o-Xylene	20.61	106.0	35863	24.51	ug/L	89
50)	Styrene	20.67	104.0	58344	24.94	ug/L	86
51)	Bromoform	21.03	173.0	21826	25.21	ug/L	93
52)	Isopropylbenzene	21.43	105.0	107614	25.07	ug/L	91
53)	p-BROMOFLUOROBENZENE	21.73	174.0	13159	9.74	ug/L	97
54)	Bromobenzene	21.99	156.0	31519	25.43	ug/L	95
55)	1,2,3-Trichloropropane	22.22	75.0	31526	31.88	ug/L	89
56)	1,1,2,2-Tetrachloroethane	22.20	83.0	23159	18.50	ug/L	96
57)	n-Propylbenzene	22.31	120.0	26258	24.45	ug/L	99
58)	2-Chlorotoluene	22.44	126.0	24047	24.94	ug/L	92
59)	4-Chlorotoluene	22.69	126.0	25755	25.80	ug/L	90
60)	1,3,5-Trimethylbenzene	22.73	105.0	96200	26.28	ug/L	79
61)	tert-Butylbenzene	23.42	119.0	76139	25.10	ug/L	78
62)	1,2,4-Trimethylbenzene	23.54	105.0	94423	25.77	ug/L	85
63)	sec-Butylbenzene	23.90	105.0	113116	24.42	ug/L	94
64)	1,3-Dichlorobenzene	24.08	146.0	53726	24.96	ug/L	91
65)	1,4-Dichlorobenzene	24.29	146.0	55939	25.69	ug/L	94
66)	p-Isopropyltoluene	24.27	119.0	96887	25.59	ug/L	84
67)	1,2-DICHLOROBENZENE-D4	25.05	152.0	13485	9.72	ug/L	98
68)	1,2-Dichlorobenzene	25.09	146.0	50464	25.15	ug/L	93
69)	n-Butylbenzene	25.18	91.0	100620	26.70	ug/L	86
70)	1,2-Dibromo-3-chloropropane	26.88	157.0	7168	26.45	ug/L	94
71)	1,2,4-Trichlorobenzene	28.71	180.0	35988	25.55	ug/L	96
72)	Naphthalene	29.23	128.0	74010	33.17	ug/L	100
73)	Hexachlorobutadiene	29.14	225.0	25612	26.45	ug/L	98
74)	1,2,3-Trichlorobenzene	29.79	180.0	34202	25.67	ug/L	93

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG188::D5
Name: VOASTD 25PPB
Misc: 05/17/93 #4

Quant Output File: ^AG188::D2
Instrument ID: HP MS#4

Id File: IDAG05::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930514 14:17

Last Qcal Time: 930514 15:17

Operator ID: TONY
Quant Time : 930517 17:35
Injected at: 930517 17:02

QUANT REPORT

Operator ID: TONY
Output File: ^AG189::D2
Data File: >AG189::D5
Name: VOASTD 50PPB
Misc: 05/17/93 #5

Quant Rev: 7
Quant Time: 930517 18:15
Injected at: 930517 17:42
Dilution Factor: 1.00000
Instrument ID: HP MS#4

ID File: IDAG05::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930514 14:17
Last Qcal Time: 930514 15:17

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.15	96.0	36820	10.00	ug/L	98
2)	Dichlorodifluoromethane	2.54	85.0	23721	38.37	ug/L	98
3)	Chloromethane	2.93	50.0	26240	49.06	ug/L	89
4)	Vinyl chloride	3.22	62.0	41145	46.70	ug/L	99
5)	Bromomethane	4.00	94.0	32413	57.50	ug/L	97
6)	Chloroethane	4.35	64.0	22455	61.32	ug/L	99
7)	Trichlorofluoromethane	5.01	101.0	20657	19.96	ug/L	99
8)	Acrolein	6.49	56.0	3051M	253.65	ug/L	
9)	1,1-Dichloroethene	6.50	96.0	25853	22.39	ug/L	86
10)	Acetone	7.01	43.0	163131	236.38	ug/L	93
11)	Carbon disulfide	6.80	76.0	172168	85.53	ug/L	98
12)	Methylene chloride	7.98	84.0	42818	69.64	ug/L	91
13)	trans-1,2-Dichloroethene	8.58	96.0	57124	49.92	ug/L	93
14)	Acrylonitrile	8.73	53.0	126588	390.83	ug/L	95
15)	1,1-Dichloroethane	9.57	63.0	26980	13.26	ug/L	98
16)	Vinyl acetate	9.90	43.0	37420	218.92	ug/L	100
17)	2,2-Dichloropropane	10.75	77.0	109520	77.97	ug/L	94
18)	cis-1,2-Dichloroethene	10.85	96.0	47987	48.10	ug/L	97
19)	2-Butanone	11.04	43.0	157163	238.21	ug/L	82
20)	Bromochloromethane	11.32	128.0	26347	53.18	ug/L	96
21)	Chloroform	11.59	83.0	131884	73.27	ug/L	93
22)	1,1,1-Trichloroethane	11.75	97.0	132339	89.23	ug/L	97
23)	Carbon tetrachloride	12.06	117.0	95881	117.29	ug/L	93
24)	1,1-Dichloropropene	12.11	75.0	100345	84.76	ug/L	99
25)	BENZENE-D6	12.44	84.0	36019	13.40	ug/L	99
26)	Benzene	12.52	78.0	226480	62.02	ug/L	98
27)	1,2-Dichloroethane	12.66	62.0	131579	66.50	ug/L	98
28)	*TOLUENE-D8	16.28	98.0	36529	10.00	ug/L	92
29)	Trichloroethene	13.88	95.0	93249	73.89	ug/L	88
30)	1,2-Dichloropropane	14.31	63.0	63651	56.39	ug/L	95
31)	Dibromomethane	14.56	174.0	57609	58.31	ug/L	99
32)	2-Chloroethyl vinylether	15.65	63.0	12588	144.16	ug/L	98
33)	Bromodichloromethane	14.95	83.0	111122	61.34	ug/L	94
34)	cis-1,3-Dichloropropene	15.84	75.0	53677	28.97	ug/L	94
35)	Toluene	16.41	92.0	131213	56.92	ug/L	92
36)	4-Methyl-2-pentanone	16.23	43.0	130968	111.24	ug/L	95
37)	trans-1,3-Dichloropropene	17.00	75.0	44290	27.86	ug/L	99
38)	Tetrachloroethene	17.47	166.0	70670	55.10	ug/L	99
39)	1,1,2-Trichloroethane	17.35	132.0	5142	54.92	ug/L	86
40)	1,3-Dichloropropane	17.65	76.0	101699	61.61	ug/L	98

Operator ID: TONY
Output File: ^AG189::D2
Data File: >AG189::D5
Name: VOASTD 50PPB
Misc: 05/17/93 #5

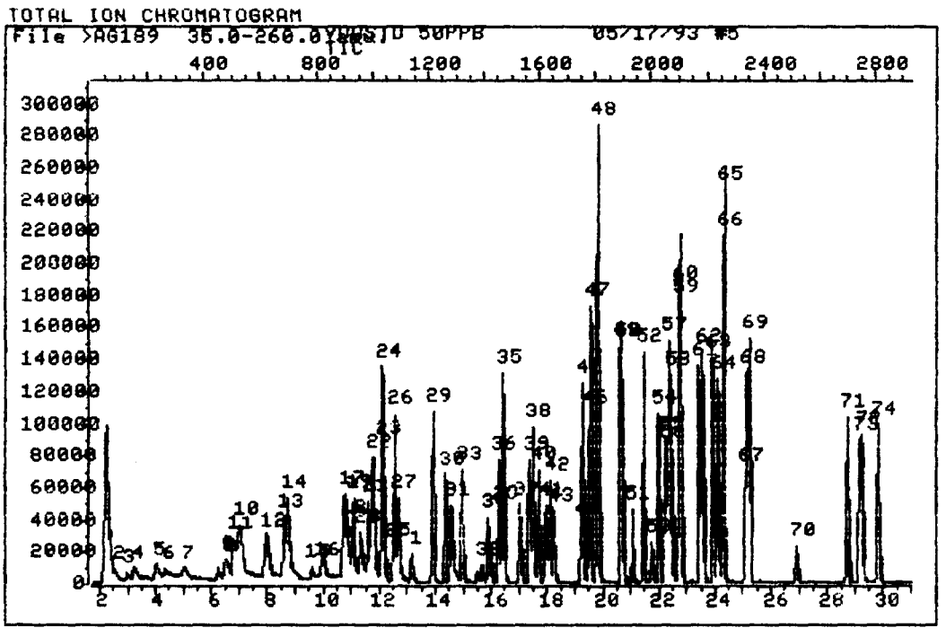
Quant Rev: 7
Quant Time: 930517 18:15
Injected at: 930517 17:42
Dilution Factor: 1.00000
Instrument ID: HP MS#4

ID File: IDAG05::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930514 14:17
Last Qcal Time: 930514 15:17

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	2-Hexanone	17.92	43.0	93257	86.44	ug/L	96
42)	Dibromochloromethane	18.08	129.0	78195	59.81	ug/L	97
43)	1,2-Dibromoethane	18.23	107.0	69721	60.53	ug/L	94
44)	*CHLOROBENZENE-D5	19.20	117.0	27674	10.00	ug/L	97
45)	Chlorobenzene	19.26	112.0	147770	56.02	ug/L	93
46)	1,1,1,2-Tetrachloroethane	19.48	131.0	59607	60.60	ug/L	95
47)	Ethylbenzene	19.53	91.0	273126	58.51	ug/L	92
48)	m &/or p-Xylene	19.79	106.0	178645	113.29	ug/L	75
49)	o-Xylene	20.61	106.0	81896	54.98	ug/L	88
50)	Styrene	20.67	104.0	138127	57.99	ug/L	88
51)	Bromoform	21.02	173.0	50918	57.75	ug/L	99
52)	Isopropylbenzene	21.42	105.0	255911	58.56	ug/L	90
53)	p-BROMOFLUOROBENZENE	21.73	174.0	13478	9.80	ug/L	98
54)	Bromobenzene	21.98	156.0	71209	56.43	ug/L	98
55)	1,2,3-Trichloropropane	22.22	75.0	68505	68.04	ug/L	89
56)	1,1,2,2-Tetrachloroethane	22.20	83.0	48460	38.01	ug/L	98
57)	n-Propylbenzene	22.32	120.0	60466	55.29	ug/L	98
58)	2-Chlorotoluene	22.44	126.0	55996	57.04	ug/L	90
59)	4-Chlorotoluene	22.69	126.0	58250	57.30	ug/L	89
60)	1,3,5-Trimethylbenzene	22.74	105.0	221117	59.33	ug/L	79
61)	tert-Butylbenzene	23.42	119.0	172288	55.79	ug/L	78
62)	1,2,4-Trimethylbenzene	23.54	105.0	222679	59.69	ug/L	84
63)	sec-Butylbenzene	23.90	105.0	263151	55.80	ug/L	93
64)	1,3-Dichlorobenzene	24.08	146.0	124455	56.78	ug/L	92
65)	1,4-Dichlorobenzene	24.29	146.0	130357	58.80	ug/L	93
66)	p-Isopropyltoluene	24.26	119.0	227830	59.09	ug/L	87
67)	1,2-DICHLOROBENZENE-D4	25.05	152.0	13846	9.80	ug/L	85
68)	1,2-Dichlorobenzene	25.09	146.0	118175	57.85	ug/L	93
69)	n-Butylbenzene	25.18	91.0	230302	60.02	ug/L	86
70)	1,2-Dibromo-3-chloropropane	26.88	157.0	15382	55.75	ug/L	98
71)	1,2,4-Trichlorobenzene	28.71	180.0	80644	56.24	ug/L	97
72)	Naphthalene	29.23	128.0	164626	72.47	ug/L	100
73)	Hexachlorobutadiene	29.15	225.0	54874	55.65	ug/L	98
74)	1,2,3-Trichlorobenzene	29.78	180.0	76082	56.09	ug/L	96

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG189::D5 Quant Output File: ^AG189::D2
Name: VOASTD 50PPB Instrument ID: HP MS#4
Misc: 05/17/93 #5

Id File: IDAG05::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930514 14:17 Last Qcal Time: 930514 15:17

Operator ID: TONY
Quant Time : 930517 18:15
Injected at: 930517 17:42

Operator ID: TONY
Output File: ^AG190::D2
Data File: >AG190::D5
Name: VOASTD 100PPB
Misc: 05/17/93 #6

Quant Rev: 7
Quant Time: 930517 18:54
Injected at: 930517 18:21
Dilution Factor: 1.00000
Instrument ID: HP MS#4

ID File: IDAG05::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930514 14:17
Last Qcal Time: 930514 15:17

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.14	96.0	42077	10.00	ug/L	97
2)	Dichlorodifluoromethane	2.53	85.0	61764	87.42	ug/L	95
3)	Chloromethane	2.93	50.0	53510	87.54	ug/L	94
4)	Vinyl chloride	3.20	62.0	92873	92.24	ug/L	97
5)	Bromomethane	4.00	94.0	69071	107.22	ug/L	96
6)	Chloroethane	4.33	64.0	45127	107.83	ug/L	95
7)	Trichlorofluoromethane	5.01	101.0	41270	34.89	ug/L	98
8)	Acrolein	6.51	56.0	6945	505.26	ug/L	92
9)	1,1-Dichloroethene	6.50	96.0	56033	42.46	ug/L	92
10)	Acetone	7.05	43.0	368645	467.44	ug/L	97
11)	Carbon disulfide	6.78	76.0	387765	168.56	ug/L	99
12)	Methylene chloride	7.97	84.0	90558	128.88	ug/L	92
13)	trans-1,2-Dichloroethene	8.57	96.0	120445	92.11	ug/L	93
14)	Acrylonitrile	8.74	53.0	287986	778.04	ug/L	92
15)	1,1-Dichloroethane	9.57	63.0	45410	19.53	ug/L	98
16)	Vinyl acetate	9.89	43.0	73132	374.39	ug/L	100
17)	2,2-Dichloropropane	10.73	77.0	228996	142.67	ug/L	94
18)	cis-1,2-Dichloroethene	10.84	96.0	108267	94.96	ug/L	94
19)	2-Butanone	11.06	43.0	337068	447.07	ug/L	81
20)	Bromochloromethane	11.33	128.0	60805	107.40	ug/L	98
21)	Chloroform	11.59	83.0	275843	134.11	ug/L	96
22)	1,1,1-Trichloroethane	11.75	97.0	288054	169.95	ug/L	96
23)	Carbon tetrachloride	12.05	117.0	219169	234.61	ug/L	91
24)	1,1-Dichloropropene	12.11	75.0	215222	159.09	ug/L	98
25)	BENZENE-D6	12.44	84.0	39803	12.95	ug/L	97
26)	Benzene	12.52	78.0	520763	124.78	ug/L	98
27)	1,2-Dichloroethane	12.66	62.0	284224	125.69	ug/L	97
28)	*TOLUENE-D8	16.28	98.0	42148	10.00	ug/L	82
29)	Trichloroethene	13.87	95.0	210663	144.67	ug/L	88
30)	1,2-Dichloropropane	14.31	63.0	142158	109.14	ug/L	93
31)	Dibromomethane	14.56	174.0	129426	113.54	ug/L	98
32)	2-Chloroethyl vinylether	15.65	63.0	29015	287.99	ug/L	94
33)	Bromodichloromethane	14.95	83.0	254233	121.64	ug/L	99
34)	cis-1,3-Dichloropropene	15.84	75.0	123433	57.74	ug/L	96
35)	Toluene	16.42	92.0	301016	113.17	ug/L	90
36)	4-Methyl-2-pentanone	16.24	43.0	294484	216.78	ug/L	94
37)	trans-1,3-Dichloropropene	17.00	75.0	101582	55.37	ug/L	98
38)	Tetrachloroethene	17.47	166.0	157481	106.41	ug/L	99
39)	1,1,2-Trichloroethane	17.35	132.0	11912	110.27	ug/L	99
40)	1,3-Dichloropropane	17.65	76.0	230786	121.17	ug/L	98

Operator ID: TONY
Output File: ^AG190::D2
Data File: >AG190::D5
Name: VOASTD 100PPB
Misc: 05/17/93 #6

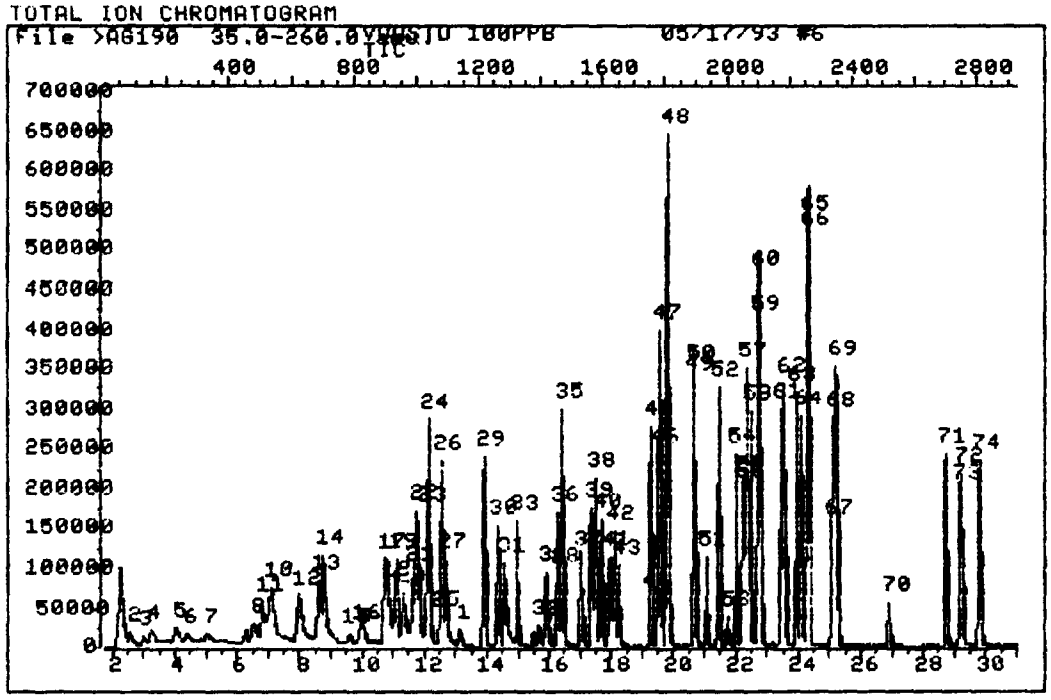
Quant Rev: 7
Quant Time: 930517 18:54
Injected at: 930517 18:21
Dilution Factor: 1.00000
Instrument ID: HP MS#4

ID File: IDAG05::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930514 14:17
Last Qcal Time: 930514 15:17

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	2-Hexanone	17.94	43.0	210764	169.31	ug/L	96
42)	Dibromochloromethane	18.09	129.0	178089	118.05	ug/L	97
43)	1,2-Dibromoethane	18.24	107.0	162967	122.61	ug/L	99
44)	*CHLOROBENZENE-D5	19.20	117.0	31386	10.00	ug/L	98
45)	Chlorobenzene	19.26	112.0	340587	113.85	ug/L	93
46)	1,1,1,2-Tetrachloroethane	19.48	131.0	137719	123.45	ug/L	95
47)	Ethylbenzene	19.53	91.0	630874	119.16	ug/L	92
48)	m &/or p-Xylene	19.80	106.0	408292	228.30	ug/L	76
49)	o-Xylene	20.61	106.0	188465	111.56	ug/L	88
50)	Styrene	20.67	104.0	324498	120.12	ug/L	90
51)	Bromoform	21.03	173.0	123917	123.93	ug/L	96
52)	Isopropylbenzene	21.43	105.0	585336	118.10	ug/L	92
53)	p-BROMOFLUOROBENZENE	21.74	174.0	15292	9.81	ug/L	92
54)	Bromobenzene	21.99	156.0	164060	114.63	ug/L	99
55)	1,2,3-Trichloropropane	22.23	75.0	156758	137.29	ug/L	87
56)	1,1,2,2-Tetrachloroethane	22.21	83.0	119388	82.57	ug/L	99
57)	n-Propylbenzene	22.33	120.0	140373	113.18	ug/L	99
58)	2-Chlorotoluene	22.45	126.0	128415	115.34	ug/L	91
59)	4-Chlorotoluene	22.70	126.0	135509	117.54	ug/L	88
60)	1,3,5-Trimethylbenzene	22.74	105.0	509916	120.63	ug/L	81
61)	tert-Butylbenzene	23.42	119.0	395617	112.95	ug/L	80
62)	1,2,4-Trimethylbenzene	23.54	105.0	518210	122.49	ug/L	83
63)	sec-Butylbenzene	23.91	105.0	618312	115.60	ug/L	90
64)	1,3-Dichlorobenzene	24.09	146.0	292299	117.58	ug/L	93
65)	1,4-Dichlorobenzene	24.30	146.0	305734	121.59	ug/L	97
66)	p-Isopropyltoluene	24.27	119.0	519386	118.78	ug/L	86
67)	1,2-DICHLOROBENZENE-D4	25.06	152.0	16306	10.18	ug/L	75
68)	1,2-Dichlorobenzene	25.09	146.0	277983	119.99	ug/L	94
69)	n-Butylbenzene	25.18	91.0	539456	123.96	ug/L	86
70)	1,2-Dibromo-3-chloropropane	26.88	157.0	38523	123.11	ug/L	99
71)	1,2,4-Trichlorobenzene	28.72	180.0	189987	116.82	ug/L	95
72)	Naphthalene	29.23	128.0	403829	156.74	ug/L	100
73)	Hexachlorobutadiene	29.14	225.0	125504	112.23	ug/L	97
74)	1,2,3-Trichlorobenzene	29.79	180.0	182903	118.88	ug/L	96

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG190::D5 Quant Output File: ^AG190::D2
Name: VOASTD 100PPB Instrument ID: HP MS#4
Misc: 05/17/93 #6

Id File: IDAG05::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930514 14:17 Last Qcal Time: 930514 15:17

Operator ID: TONY
Quant Time : 930517 18:54
Injected at: 930517 18:21

QUANT REPORT

Operator ID: TONY
Output File: ^AG191::D2
Data File: >AG191::D5
Name: VOASTD 150PPB
Misc: 05/17/93 #7

Quant Rev: 7
Quant Time: 930517 19:34
Injected at: 930517 19:01
Dilution Factor: 1.00000
Instrument ID: HP MS#4

ID File: IDAG05::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930514 14:17
Last Qcal Time: 930514 15:17

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.15	96.0	43428	10.00	ug/L	99
2)	Dichlorodifluoromethane	2.53	85.0	86246	118.28	ug/L	99
3)	Chloromethane	2.93	50.0	74697	118.41	ug/L	96
4)	Vinyl chloride	3.20	62.0	125766	121.03	ug/L	97
5)	Bromomethane	4.01	94.0	91251	137.24	ug/L	96
6)	Chloroethane	4.33	64.0	58882	136.32	ug/L	96
7)	Trichlorofluoromethane	5.02	101.0	51699	42.35	ug/L	96
8)	Acrolein	6.53	56.0	10213	719.89	ug/L	78
9)	1,1-Dichloroethene	6.49	96.0	78571	57.68	ug/L	95
10)	Acetone	7.10	43.0	521244	640.38	ug/L	96
11)	Carbon disulfide	6.76	76.0	581415	244.88	ug/L	99
12)	Methylene chloride	7.98	84.0	117812	162.45	ug/L	95
13)	trans-1,2-Dichloroethene	8.57	96.0	215372	159.58	ug/L	94
14)	Acrylonitrile	8.77	53.0	410886	1075.54	ug/L	89
15)	1,1-Dichloroethane	9.57	63.0	68947	28.73	ug/L	95
16)	Vinyl acetate	9.91	43.0	104913	520.38	ug/L	100
17)	2,2-Dichloropropane	10.73	77.0	319352	192.77	ug/L	96
18)	cis-1,2-Dichloroethene	10.85	96.0	217719	185.01	ug/L	95
19)	2-Butanone	11.07	43.0	485647	624.09	ug/L	81
20)	Bromochloromethane	11.32	128.0	127579	218.33	ug/L	97
21)	Chloroform	11.60	83.0	414310	195.16	ug/L	99
22)	1,1,1-Trichloroethane	11.75	97.0	432677	247.34	ug/L	96
23)	Carbon tetrachloride	12.05	117.0	323909	335.94	ug/L	94
24)	1,1-Dichloropropene	12.11	75.0	325812	233.34	ug/L	98
25)	BENZENE-D6	12.44	84.0	41834	13.19	ug/L	97
26)	Benzene	12.51	78.0	775613	180.07	ug/L	97
27)	1,2-Dichloroethane	12.66	62.0	405651	173.81	ug/L	98
28)	*TOLUENE-D8	16.29	98.0	42896M	10.00	ug/L	
29)	Trichloroethene	13.87	95.0	309344	208.73	ug/L	91
30)	1,2-Dichloropropane	14.33	63.0	207279	156.36	ug/L	94
31)	Dibromomethane	14.57	174.0	186428	160.70	ug/L	97
32)	2-Chloroethyl vinylether	15.65	63.0	42680	416.24	ug/L	94
33)	Bromodichloromethane	14.96	83.0	361936	170.15	ug/L	99
34)	cis-1,3-Dichloropropene	15.84	75.0	176885	81.30	ug/L	95
35)	Toluene	16.42	92.0	446619	164.98	ug/L	91
36)	4-Methyl-2-pentanone	16.25	43.0	414602	299.88	ug/L	94
37)	trans-1,3-Dichloropropene	17.00	75.0	145105	77.72	ug/L	99
38)	Tetrachloroethene	17.47	166.0	235762	156.53	ug/L	99
39)	1,1,2-Trichloroethane	17.34	132.0	17214	156.57	ug/L	90
40)	1,3-Dichloropropane	17.64	76.0	332936	171.75	ug/L	98

Operator ID: TONY
Output File: ^AG191::D2
Data File: >AG191::D5
Name: VOASTD 150PPB
Misc: 05/17/93 #7

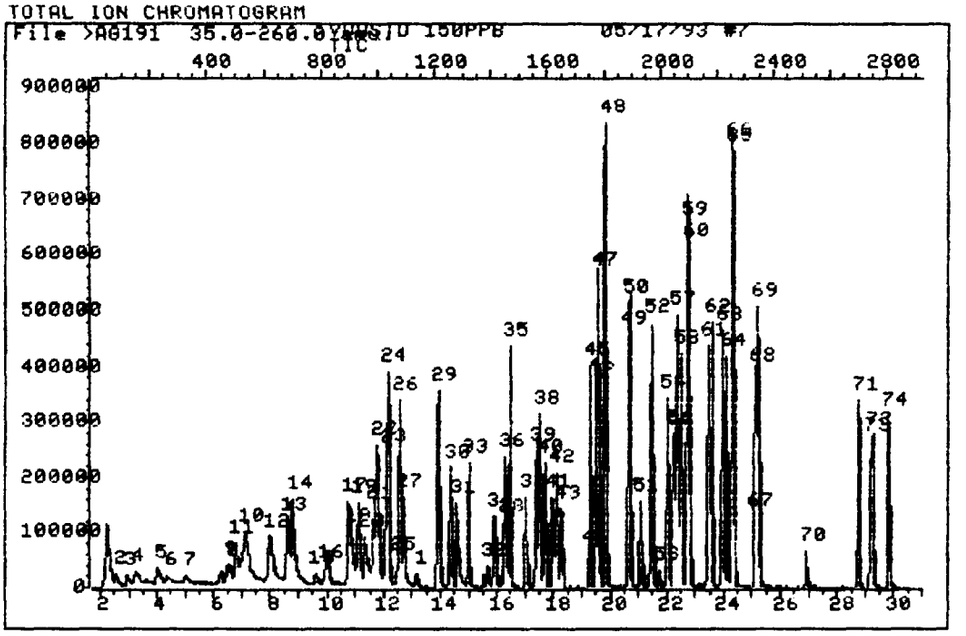
Quant Rev: 7
Quant Time: 930517 19:34
Injected at: 930517 19:01
Dilution Factor: 1.00000
Instrument ID: HP MS#4

ID File: IDAG05::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930514 14:17
Last Qcal Time: 930514 15:17

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	2-Hexanone	17.93	43.0	303258	239.37	ug/L	99
42)	Dibromochloromethane	18.08	129.0	262571	171.01	ug/L	99
43)	1,2-Dibromoethane	18.23	107.0	230035	170.06	ug/L	99
44)	*CHLOROBENZENE-D5	19.20	117.0	33137	10.00	ug/L	96
45)	Chlorobenzene	19.26	112.0	503779	159.51	ug/L	94
46)	1,1,1,2-Tetrachloroethane	19.49	131.0	197534	167.72	ug/L	96
47)	Ethylbenzene	19.54	91.0	929113	166.22	ug/L	92
48)	m &/or p-Xylene	19.80	106.0	608711	322.39	ug/L	94
49)	o-Xylene	20.61	106.0	280142	157.06	ug/L	89
50)	Styrene	20.67	104.0	474639	166.41	ug/L	91
51)	Bromoform	21.03	173.0	174949	165.72	ug/L	98
52)	Isopropylbenzene	21.43	105.0	871726	166.59	ug/L	89
53)	p-BROMOFLUOROBENZENE	21.74	174.0	16436	9.98	ug/L	94
54)	Bromobenzene	21.99	156.0	242084	160.21	ug/L	95
55)	1,2,3-Trichloropropane	22.23	75.0	216031	179.20	ug/L	89
56)	1,1,2,2-Tetrachloroethane	22.22	83.0	148709	97.42	ug/L	97
57)	n-Propylbenzene	22.33	120.0	208983	159.59	ug/L	99
58)	2-Chlorotoluene	22.45	126.0	186755	158.88	ug/L	90
59)	4-Chlorotoluene	22.71	126.0	195400	160.53	ug/L	87
60)	1,3,5-Trimethylbenzene	22.75	105.0	748835	167.79	ug/L	81
61)	tert-Butylbenzene	23.42	119.0	583239	157.72	ug/L	79
62)	1,2,4-Trimethylbenzene	23.54	105.0	751858	168.32	ug/L	83
63)	sec-Butylbenzene	23.91	105.0	927485	164.24	ug/L	90
64)	1,3-Dichlorobenzene	24.08	146.0	420218	160.10	ug/L	93
65)	1,4-Dichlorobenzene	24.30	146.0	429719	161.87	ug/L	96
66)	p-Isopropyltoluene	24.27	119.0	761427	164.93	ug/L	88
67)	1,2-DICHLOROBENZENE-D4	25.04	152.0	16349M	9.67	ug/L	
68)	1,2-Dichlorobenzene	25.08	146.0	390940	159.83	ug/L	95
69)	n-Butylbenzene	25.18	91.0	799126	173.92	ug/L	85
70)	1,2-Dibromo-3-chloropropane	26.88	157.0	46121	139.60	ug/L	98
71)	1,2,4-Trichlorobenzene	28.71	180.0	259429	151.08	ug/L	95
72)	Naphthalene	29.23	128.0	520499	191.35	ug/L	100
73)	Hexachlorobutadiene	29.14	225.0	167784	142.11	ug/L	98
74)	1,2,3-Trichlorobenzene	29.79	180.0	242834	149.50	ug/L	96

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG191::D5
Name: VOASTD 150PPB
Misc: 05/17/93 #7

Quant Output File: ^AG191::D2
Instrument ID: HP MS#4

Id File: IDAG05::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930514 14:17

Last Qcal Time: 930514 15:17

Operator ID: TONY
Quant Time : 930517 19:34
Injected at: 930517 19:01

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: H. O. D. LANDFILL Contract: LOCKHEED/ESAT

Lab Code: 5SCRL Case No.: SF1187 SAS No.: --- SDG No.: ---

Instrument ID: HP MS#4 Calibration Date(s): 05/25/93

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

Min $\overline{RRF}$ for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 35.0

LAB FILE ID: RRF005= >AG240 RRF025= >AG241
RRF050= >AG242 RRF100= >AG243 RRF150= >AG244

COMPOUND	RRF005	RRF025	RRF050	RRF100	RRF150	$\overline{RRF}$	RSD
Dichlorodifluoromethane	.459	.547	.491	.438	.366	.460	14.5
Chloromethane	.491	.535	.466	.430	.358	.456	14.6
Vinyl chloride	.422	.472	.418	.393	.321	.405	13.5
Bromomethane	.304	.329	.298	.275	.229	.287	13.1
Chloroethane	.214	.225	.194	.186	.158	.195	13.4
Trichlorofluoromethane	.584	.680	.574	.382	.276	.499	33.1
Acrolein	.002	.001	.001	.001	.001	.001	30.8
1,1-Dichloroethene	.275	.284	.282	.275	.245	.272	5.9
Acetone	.078	.047	.052	.046	.049	.054	24.9
Carbon disulfide	.780	.827	.823	.834	.757	.804	4.2
Methylene chloride	.385	.342	.342	.342	.307	.344	8.1
trans-1,2-Dichloroethene	.297	.303	.305	.305	.276	.297	4.1
Acrylonitrile	.106	.102	.104	.105	.098	.103	3.3
1,1-Dichloroethane	.546	.546	.563	.569	.514	.548	3.9
Vinyl acetate	.161	.174	.154	.153	.133	.155	9.6
2,2-Dichloropropane	.398	.395	.390	.376	.346	.381	5.6
cis-1,2-Dichloroethene	.268	.280	.291	.299	.263	.280	5.4
2-Butanone	.080	.055	.068	.065	.077	.069	14.5
Bromochloromethane	.203	.201	.198	.195	.180	.195	4.8
Chloroform	.700	.698	.724	.729	.659	.702	4.0
1,1,1-Trichloroethane	.559	.579	.597	.600	.541	.575	4.4
Carbon tetrachloride	.370	.427	.450	.442	.404	.419	7.7
1,1-Dichloropropene	.438	.448	.465	.452	.408	.442	4.9
Benzene	1.055	1.055	1.064	1.101	.989	1.053	3.9
1,2-Dichloroethane	.614	.602	.620	.639	.586	.612	3.3
Trichloroethene	.432	.401	.448	.414	.415	.422	4.3
1,2-Dichloropropane	.297	.290	.317	.299	.282	.297	4.3
Dibromomethane	.271	.262	.266	.254	.241	.259	4.5
2-Chloroethyl vinylether	++++	.016	.016	.015	.014	.015	4.6
Bromodichloromethane	.509	.520	.549	.541	.510	.526	3.5
cis-1,3-Dichloropropene	.499	.498	.538	.520	.495	.510	3.6
Toluene	.627	.624	.661	.650	.624	.637	2.7
4-Methyl-2-pentanone	.310	.259	.280	.277	.290	.283	6.6
trans-1,3-Dichloropropene	.438	.450	.496	.481	.451	.463	5.2

6A-1
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: H. O. D. LANDFILL Contract: LOCKHEED/ESAT

Lab Code: 5SCRL Case No.: SF1187 SAS No.: --- SDG No.: ---

Instrument ID: HP MS#4 Calibration Date(s): 05/25/93

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

Min $\overline{RRF}$ for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 35.0

LAB FILE ID: RRF005= >AG240 RRF025= >AG241
RRF050= >AG242 RRF100= >AG243 RRF150= >AG244

COMPOUND	RRF005	RRF025	RRF050	RRF100	RRF150	$\overline{RRF}$	RSD
Tetrachloroethene	.334	.321	.338	.313	.304	.322	4.4
1,1,2-Trichloroethane	.029	.025	.026	.023	.022	.025	10.5
1,3-Dichloropropane	.475	.471	.502	.478	.454	.476	3.7
2-Hexanone	.179	.158	.165	.165	.222	.178	14.5
Dibromochloromethane	.327	.357	.382	.373	.355	.359	5.8
1,2-Dibromoethane	.331	.325	.342	.328	.307	.327	3.8
Chlorobenzene	.915	.940	.980	.978	.867	.936	5.1
1,1,1,2-Tetrachloroethane	.368	.381	.389	.373	.334	.369	5.7
Ethylbenzene	1.624	1.691	1.779	1.740	1.473	1.661	7.2
m &/or p-Xylene	.536	.549	.568	.544	.494	.538	5.1
o-Xylene	.510	.512	.520	.503	.451	.499	5.5
Styrene	.838	.868	.893	.886	.804	.858	4.3
Bromoform	.251	.293	.302	.304	.278	.286	7.7
Isopropylbenzene	1.448	1.498	1.602	1.507	1.380	1.487	5.5
Bromobenzene	.431	.426	.435	.421	.381	.419	5.2
1,2,3-Trichloropropane	.417	.380	.392	.375	.344	.382	7.0
1,1,2,2-Tetrachloroethane	.317	.341	.328	.337	.266	.318	9.6
n-Propylbenzene	.360	.363	.387	.356	.333	.360	5.4
2-Chlorotoluene	.341	.338	.346	.327	.304	.331	5.1
4-Chlorotoluene	.371	.348	.365	.341	.311	.347	6.8
1,3,5-Trimethylbenzene	1.319	1.312	1.393	1.302	1.202	1.306	5.2
tert-Butylbenzene	.980	1.003	1.067	.964	.919	.987	5.5
1,2,4-Trimethylbenzene	1.333	1.332	1.423	1.328	1.237	1.330	5.0
sec-Butylbenzene	1.512	1.534	1.653	1.461	1.416	1.515	5.9
1,3-Dichlorobenzene	.775	.725	.746	.712	.664	.724	5.7
1,4-Dichlorobenzene	.814	.753	.773	.731	.671	.748	7.1
p-Isopropyltoluene	1.265	1.276	1.381	1.210	1.178	1.262	6.1
1,2-Dichlorobenzene	.726	.682	.710	.664	.617	.680	6.2
n-Butylbenzene	1.322	1.313	1.450	1.247	1.246	1.316	6.3
1,2-Dibromo-3-chloropropane	.088	.080	.083	.082	.066	.080	10.4
1,2,4-Trichlorobenzene	.561	.468	.489	.426	.418	.472	12.2
Naphthalene	1.233	1.033	1.112	1.061	.955	1.079	9.6
Hexachlorobutadiene	.328	.284	.292	.225	.240	.274	15.2
1,2,3-Trichlorobenzene	.539	.438	.459	.398	.391	.445	13.4

6A-2
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: H. O. D. LANDFILL Contract: LOCKHEED/ESAT

Lab Code: 5SCRL Case No.: SF1187 SAS No.: --- SDG No.: ---

Instrument ID: HP MS#4 Calibration Date(s): 05/25/93

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

Min $\overline{RRF}$ for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 35.0

LAB FILE ID: RRF005= >AG240 RRF025= >AG241
RRF050= >AG242 RRF100= >AG243 RRF150= >AG244

COMPOUND	RRF005	RRF025	RRF050	RRF100	RRF150	$\overline{RRF}$	RSD
BENZENE-D6	.967	.964	.942	.953	.928	.951	1.7
p-BROMOFLUOROBENZENE	.463	.461	.464	.466	.459	.462	.6
1,2-DICHLOROBENZENE-D4	.475	.483	.480	.488	.470	.479	1.4

Calibration Report

Title: VOC 74 COMPOUNDS
Calibrated: 930525 17:35

Compound	Files: >AG240 RF 5.00	>AG241 RF 25.00	>AG242 RF 50.00	>AG243 RF 100.00	>AG244 RF 150.00	RRT	RF	% RSD	
Dichlorodifluoromethane	.45921	.54661	.49099	.43785	.36568	.223	.46007	14.520	(Conc=10.0,25.0,50.0,100.0,150.0)
Chloromethane	.49102	.53469	.46610	.43014	.35815	.252	.45601	14.611	(Conc=10.0,25.0,50.0,100.0,150.0)
Vinyl chloride	.42198	.47158	.41775	.39281	.32143	.270	.40511	13.530	(Conc=10.0,25.0,50.0,100.0,150.0)
Bromomethane	.30356	.32895	.29786	.27461	.22946	.321	.28689	13.061	(Conc=10.0,25.0,50.0,100.0,150.0)
Chloroethane	.21402	.22532	.19431	.18580	.15797	.338	.19548	13.380	(Conc=10.0,25.0,50.0,100.0,150.0)
Trichlorofluoromethane	.58432	.67987	.57390	.38227	.27607	.380	.49929	33.051	(Conc=10.0,25.0,50.0,100.0,150.0)
Acrolein	.00218	.00117	.00134	.00106	.00140	.486	.00143	30.764	(Conc=25.0,125.0,250.0,500.0,750.0
1,1-Dichloroethene	.27469	.28450	.28202	.27529	.24470	.491	.27224	5.864	
Acetone	.07832	.04675	.05191	.04599	.04933	.531	.05446	24.860	(Conc=25.0,125.0,250.0,500.0,750.0
Carbon disulfide	.77955	.82708	.82342	.83388	.75732	.515	.80425	4.207	
Methylene chloride	.38535	.34205	.34187	.34171	.30668	.604	.34353	8.124	
trans-1,2-Dichloroethene	.29682	.30256	.30518	.30491	.27608	.649	.29711	4.116	
Acrylonitrile	.10647	.10202	.10414	.10455	.09768	.661	.10297	3.259	(Conc=25.0,125.0,250.0,500.0,750.0
1,1-Dichloroethane	.54605	.54578	.56331	.56935	.51420	.725	.54774	3.916	
Vinyl acetate	.16129	.17367	.15407	.15284	.13293	.758	.15496	9.574	(Conc=10.0,50.0,100.0,200.0,300.0)
2,2-Dichloropropane	.39751	.39544	.39044	.37630	.34588	.817	.38111	5.605	
cis-1,2-Dichloroethene	.26797	.27959	.29082	.29914	.26333	.823	.28017	5.372	
2-Butanone	.07969	.05458	.06805	.06527	.07684	.839	.06889	14.489	(Conc=25.0,125.0,250.0,500.0,750.0
Bromochloromethane	.20293	.20127	.19841	.19501	.17976	.860	.19548	4.751	
Chloroform	.69959	.69840	.72372	.72933	.65871	.881	.70195	3.973	
1,1,1-Trichloroethane	.55899	.57902	.59727	.59991	.54092	.894	.57522	4.389	
Carbon tetrachloride	.36989	.42718	.45025	.44155	.40403	.917	.41858	7.730	
1,1-Dichloropropene	.43784	.44785	.46499	.45230	.40763	.921	.44212	4.887	
BENZENE-D6	.96718	.96411	.94182	.95283	.92843	.946	.95087	1.688	(Conc=10.0,10.0,10.0,10.0,10.0)
Benzene	1.05517	1.05473	1.06360	1.10132	.98851	.952	1.05267	3.862	
1,2-Dichloroethane	.61390	.60210	.61996	.63942	.58557	.963	.61219	3.282	
Trichloroethene	.43232	.40125	.44765	.41430	.41529	.852	.42216	4.269	
1,2-Dichloropropane	.29668	.29033	.31654	.29866	.28161	.879	.29676	4.347	
Dibromomethane	.27147	.26209	.26582	.25378	.24140	.894	.25891	4.522	
2-Chloroethyl vinylether	-	.01603	.01590	.01520	.01450	.961	.01541	4.581	(Conc=,25.0,50.0,100.0,150.0)
Bromodichloromethane	.50912	.51972	.54914	.54126	.51013	.918	.52587	3.486	
cis-1,3-Dichloropropene	.49863	.49771	.53817	.51951	.49527	.973	.50986	3.645	(Conc=2.52,12.6,25.2,50.4,75.6)
Toluene	.62688	.62418	.66118	.64957	.62441	1.008	.63725	2.681	
4-Methyl-2-pentanone	.31011	.25946	.27952	.27701	.28983	.997	.28319	6.568	(Conc=10.0,50.0,100.0,200.0,300.0)
trans-1,3-Dichloropropene	.43833	.45024	.49576	.48060	.45060	1.044	.46311	5.187	(Conc=2.23,11.1,22.3,44.6,66.9)
Tetrachloroethene	.33422	.32101	.33764	.31343	.30405	1.073	.32207	4.364	
1,1,2-Trichloroethane	.02896	.02523	.02650	.02340	.02215	1.065	.02525	10.549	
1,3-Dichloropropane	.47455	.47084	.50248	.47799	.45373	1.084	.47592	3.684	
2-Hexanone	.17917	.15798	.16506	.16513	.22200	1.101	.17787	14.527	(Conc=10.0,50.0,100.0,200.0,300.0)

RF - Response Factor (Subscript is amount in UG/L)

RRT - Average Relative Retention Time (RT Std/RT Istd)

RF - Average Response Factor

%RSD - Percent Relative Standard Deviation

Calibration Report

Title: VOC 74 COMPOUNDS
Calibrated: 930525 17:35

Compound	Files: >AG240 RF 5.00	>AG241 RF 25.00	>AG242 RF 50.00	>AG243 RF 100.00	>AG244 RF 150.00	RRT	RF	% RSD	
Dibromochloromethane	.32726	.35736	.38192	.37307	.35451	1.110	.35882	5.835	
1,2-Dibromoethane	.33125	.32505	.34174	.32801	.30750	1.120	.32671	3.810	
Chlorobenzene	.91458	.94037	.97957	.97819	.86653	1.003	.93585	5.063	
1,1,1,2-Tetrachloroethane	.36781	.38066	.38897	.37320	.33414	1.015	.36895	5.700	
Ethylbenzene	1.62422	1.69060	1.77936	1.73969	1.47348	1.017	1.66147	7.222	
m &/or p-Xylene	.53632	.54930	.56807	.54402	.49365	1.031	.53827	5.120	(Conc=10.0,50.0,100.0,200.0,300.0)
o-Xylene	.51047	.51226	.52026	.50304	.45127	1.073	.49946	5.531	
Styrene	.83785	.86770	.89254	.88604	.80366	1.076	.85756	4.297	
Bromoform	.25085	.29347	.30192	.30359	.27812	1.095	.28559	7.663	
Isopropylbenzene	1.44801	1.49788	1.60158	1.50742	1.38025	1.116	1.48703	5.482	
p-BROMOFLUOROBENZENE	.46268	.46059	.46416	.46620	.45870	1.131	.46247	.636	(Conc=10.0,10.0,10.0,10.0,10.0)
Bromobenzene	.43127	.42635	.43482	.42142	.38146	1.145	.41906	5.159	
1,2,3-Trichloropropane	.41736	.37980	.39177	.37524	.34386	1.157	.38160	6.995	
1,1,2,2-Tetrachloroethane	.31742	.34145	.32755	.33729	.26558	1.156	.31786	9.647	
n-Propylbenzene	.35993	.36296	.38688	.35613	.33270	1.162	.35972	5.368	
2-Chlorotoluene	.34124	.33815	.34561	.32705	.30371	1.168	.33115	5.075	
4-Chlorotoluene	.37106	.34818	.36487	.34135	.31066	1.182	.34722	6.833	
1,3,5-Trimethylbenzene	1.31873	1.31204	1.39274	1.30198	1.20237	1.184	1.30557	5.206	
tert-Butylbenzene	.97987	1.00281	1.06732	.96410	.91937	1.219	.98669	5.516	
1,2,4-Trimethylbenzene	1.33259	1.33165	1.42328	1.32800	1.23670	1.225	1.33044	4.960	
sec-Butylbenzene	1.51245	1.53423	1.65290	1.46089	1.41589	1.244	1.51527	5.916	
1,3-Dichlorobenzene	.77450	.72454	.74554	.71209	.66417	1.253	.72417	5.667	
1,4-Dichlorobenzene	.81356	.75307	.77312	.73141	.67097	1.264	.74843	7.058	
p-Isopropyltoluene	1.26483	1.27569	1.38101	1.21003	1.17838	1.263	1.26199	6.144	
1,2-DICHLOROBENZENE-D4	.47528	.48261	.48022	.48751	.46979	1.303	.47908	1.422	(Conc=10.0,10.0,10.0,10.0,10.0)
1,2-Dichlorobenzene	.72577	.68198	.70976	.66393	.61705	1.305	.67970	6.244	
n-Butylbenzene	1.32170	1.31300	1.45010	1.24662	1.24637	1.310	1.31556	6.324	
1,2-Dibromo-3-chloropropane	.08815	.08044	.08325	.08209	.06608	1.399	.08000	10.369	
1,2,4-Trichlorobenzene	.56094	.46812	.48880	.42564	.41826	1.494	.47235	12.182	
Naphthalene	1.23316	1.03259	1.11188	1.06103	.95506	1.521	1.07874	9.576	
Hexachlorobutadiene	.32786	.28436	.29208	.22457	.23956	1.516	.27369	15.245	
1,2,3-Trichlorobenzene	.53892	.43792	.45917	.39770	.39129	1.550	.44500	13.386	

RF - Response Factor (Subscript is amount in UG/L)

RRT - Average Relative Retention Time (RT Std/RT Istd)

RF - Average Response Factor

%RSD - Percent Relative Standard Deviation

FMGR : IIDLST,IDAG08
FMGR-006
FMGR : IDLST,IDAG08

Quant ID File: IDAG08::Q1

Title: ID FILE FOR 624 VOC METHOD

Last EDIT Date: 930422 15:05 Last Calib Date: 930525 17:54
Last Qcal Date: <none> Calib File: CBAG03::SC
Qcal File: <none>

RT Window (+min -%) :	.5000	Subtraction Method :	2
Max Hits/Compound :	1	Ignore max check :	NO
Minimum Area :	1000	Auto Qdel Method :	5
Peak/Base Peak Ratio :	35.00 %	Quantitate Using :	AREA
Up Slope Sensitivity :	-.500000	Units of Conc :	ug/L
Down Slope Sensitivity:	.0000000	Bunching :	1

Number of Compounds: 74

Comp No.	Compound Name	(Type)	Retention Time Min.	(Rel)	R.F.	Conc.	
1)	*FLUOROBENZENE	(I)	13.13	(1.000)	1.00000	10.00	**
2)	Dichlorodifluoromethane	(T)	2.93	(.223)	.46007	50.00	**
3)	Chloromethane	(T)	3.31	(.252)	.45601	50.00	
4)	Vinyl chloride	(T)	3.54	(.270)	.40511	50.00	**
5)	Bromomethane	(T)	4.21	(.321)	.28689	50.00	
6)	Chloroethane	(T)	4.44	(.338)	.19548	50.00	**
7)	Trichlorofluoromethane	(T)	4.98	(.380)	.49929	50.00	
8)	Acrolein	(T)	6.38	(.486)	.00143	250.00	
9)	1,1-Dichloroethene	(M)	6.45	(.491)	.27224	50.00	
10)	Acetone	(T)	6.97	(.531)	.05446	250.00	**
11)	Carbon disulfide	(T)	6.76	(.515)	.80425	50.00	**
12)	Methylene chloride	(T)	7.92	(.604)	.34353	50.00	
13)	trans-1,2-Dichloroethene	(T)	8.52	(.649)	.29711	50.00	
14)	Acrylonitrile	(T)	8.68	(.661)	.10297	250.00	
15)	1,1-Dichloroethane	(T)	9.51	(.725)	.54774	50.00	
16)	Vinyl acetate	(T)	9.95	(.758)	.15496	100.00	
17)	2,2-Dichloropropane	(T)	10.72	(.817)	.38111	50.00	
18)	cis-1,2-Dichloroethene	(T)	10.80	(.823)	.28017	50.00	
19)	2-Butanone	(T)	11.02	(.839)	.06889	250.00	**
20)	Bromochloromethane	(T)	11.29	(.860)	.19548	50.00	**
21)	Chloroform	(T)	11.56	(.881)	.70195	50.00	**
22)	1,1,1-Trichloroethane	(T)	11.74	(.894)	.57522	50.00	**
23)	Carbon tetrachloride	(T)	12.04	(.917)	.41858	50.00	**
24)	1,1-Dichloropropene	(T)	12.09	(.921)	.44212	50.00	
25)	BENZENE-D6	(S)	12.42	(.946)	.95087	10.00	
26)	Benzene	(M)	12.50	(.952)	1.05267	50.00	
27)	1,2-Dichloroethane	(T)	12.64	(.963)	.61219	50.00	**
28)	*TOLUENE-D8	(I)	16.29	(1.000)	1.00000	10.00	**
29)	Trichloroethene	(M)	13.87	(.852)	.42216	50.00	
30)	1,2-Dichloropropane	(T)	14.32	(.879)	.29676	50.00	**
31)	Dibromomethane	(T)	14.56	(.894)	.25891	50.00	**
32)	2-Chloroethyl vinylether	(T)	15.65	(.961)	.01541	50.00	
33)	Bromodichloromethane	(T)	14.95	(.918)	.52587	50.00	
34)	cis-1,3-Dichloropropene	(T)	15.84	(.973)	.50986	25.20	**
35)	Toluene	(M)	16.42	(1.008)	.63725	50.00	
36)	4-Methyl-2-pentanone	(T)	16.24	(.997)	.28319	100.00	
37)	trans-1,3-Dichloropropene	(T)	17.01	(1.044)	.46311	22.32	
38)	Tetrachloroethene	(T)	17.47	(1.073)	.32207	50.00	
39)	1,1,2-Trichloroethane	(T)	17.34	(1.065)	[illegible]	[illegible]	

[illegible]	1,1,2-[illegible]	[illegible]	[illegible]	[illegible]	.02529	50.00	
40)	1,3-Dichloropropane	(T)	[illegible]	1.084)	.47592	50.00	
41)	2-Hexanone	(T)	17.93(	1.101)	.17287	100.00	**
42)	Dibromochloromethane	(T)	18.08(	1.110)	.35882	50.00	**
43)	1,2-Dibromoethane	(T)	18.24(	1.120)	.32671	50.00	**
44)	*CHLOROBENZENE-D5	(I)	19.20(	1.000)	1.00000	10.00	
45)	Chlorobenzene	(M)	19.26(	1.003)	.93585	50.00	
46)	1,1,1,2-Tetrachloroethane	(T)	19.48(	1.015)	.36895	50.00	**
47)	Ethylbenzene	(T)	19.53(	1.017)	1.66147	50.00	**
48)	m &/or p-Xylene	(T)	19.80(	1.031)	.53827	100.00	**
49)	o-Xylene	(T)	20.61(	1.073)	.49946	50.00	
50)	Styrene	(T)	20.67(	1.076)	.85756	50.00	
51)	Bromoform	(T)	21.02(	1.095)	.28559	50.00	**
52)	Isopropylbenzene	(T)	21.42(	1.116)	1.48703	50.00	**
53)	p-BROMOFLUOROBENZENE	(S)	21.73(	1.131)	.46247	10.00	**
54)	Bromobenzene	(T)	21.98(	1.145)	.41906	50.00	**
55)	1,2,3-Trichloropropane	(T)	22.22(	1.157)	.38160	50.00	**
56)	1,1,2,2-Tetrachloroethane	(T)	22.20(	1.156)	.31786	50.00	**
57)	n-Propylbenzene	(T)	22.32(	1.162)	.35972	50.00	**
58)	2-Chlorotoluene	(T)	22.43(	1.168)	.33115	50.00	**
59)	4-Chlorotoluene	(T)	22.69(	1.182)	.34722	50.00	**
60)	1,3,5-Trimethylbenzene	(T)	22.73(	1.184)	1.30557	50.00	
61)	tert-Butylbenzene	(T)	23.41(	1.219)	.98669	50.00	
62)	1,2,4-Trimethylbenzene	(T)	23.53(	1.225)	1.33044	50.00	
63)	sec-Butylbenzene	(T)	23.89(	1.244)	1.51527	50.00	
64)	1,3-Dichlorobenzene	(T)	24.07(	1.253)	.72417	50.00	**
65)	1,4-Dichlorobenzene	(T)	24.28(	1.264)	.74843	50.00	**
66)	p-Isopropyltoluene	(T)	24.25(	1.263)	1.26199	50.00	
67)	1,2-DICHLOROBENZENE-D4	(S)	25.03(	1.303)	.47908	10.00	**
68)	1,2-Dichlorobenzene	(T)	25.07(	1.305)	.67970	50.00	
69)	n-Butylbenzene	(T)	25.16(	1.310)	1.31556	50.00	
70)	1,2-Dibromo-3-chloropropane	(T)	26.86(	1.399)	.08000	50.00	**
71)	1,2,4-Trichlorobenzene	(T)	28.69(	1.494)	.47235	50.00	**
72)	Naphthalene	(T)	29.20(	1.521)	1.07874	50.00	
73)	Hexachlorobutadiene	(T)	29.12(	1.516)	.27369	50.00	**
74)	1,2,3-Trichlorobenzene	(T)	29.77(	1.550)	.44500	50.00	**

* Compound is ISTD
** Compound uses different Quant parameters

FMGR : CBCAL,CBAG03,IDAG08,,A

Calib File: CBAG03::SC
Title: VOC 74 COMPOUNDS
Units: UG/L
Last Edit: 930423 08:31
Last Calib: 930525 17:35

ID File: IDAG08::QT
Title: ID FILE FOR 624 VOC METHOD
Units: ug/L
Last Edit: 930422 15:05
Last Calib: 930525 17:54

Correct Files ? Y

Calibrating...

1)	Dichlorodifluoromethane	Avg RF: .46007
2)	Chloromethane	Avg RF: .45601
3)	Vinyl chloride	Avg RF: .40511
4)	Bromomethane	Avg RF: .28689
5)	Chloroethane	Avg RF: .19548
6)	Trichlorofluoromethane	Avg RF: .49929
7)	Acrolein	Avg RF: .00143
8)	1,1-Dichloroethene	Avg RF: .27224
9)	Acetone	Avg RF: .05446
10)	Carbon disulfide	Avg RF: .80425
11)	Methylene chloride	Avg RF: .34353
12)	trans-1,2-Dichloroethene	Avg RF: .29711
13)	Acrylonitrile	Avg RF: .10297
14)	1,1-Dichloroethane	Avg RF: .54774
15)	Vinyl acetate	Avg RF: .15496
16)	2,2-Dichloropropane	Avg RF: .38111
17)	cis-1,2-Dichloroethene	Avg RF: .28017
18)	2-Butanone	Avg RF: .06889
19)	Bromochloromethane	Avg RF: .19548
20)	Chloroform	Avg RF: .70195
21)	1,1,1-Trichloroethane	Avg RF: .57522
22)	Carbon tetrachloride	Avg RF: .41858
23)	1,1-Dichloropropene	Avg RF: .44212
24)	BENZENE-D6	Avg RF: .95087
25)	Benzene	Avg RF: 1.05267
26)	1,2-Dichloroethane	Avg RF: .61219
27)	Trichloroethene	Avg RF: .42216
28)	1,2-Dichloropropane	Avg RF: .29676
29)	Dibromomethane	Avg RF: .25891
30)	2-Chloroethyl vinylether	Avg RF: .01541
31)	Bromodichloromethane	Avg RF: .52587
32)	cis-1,3-Dichloropropene	Avg RF: .50986
33)	Toluene	Avg RF: .63725
34)	4-Methyl-2-pentanone	Avg RF: .28319
35)	trans-1,3-Dichloropropene	Avg RF: .46311
36)	Tetrachloroethene	Avg RF: .32207
37)	1,1,2-Trichloroethane	Avg RF: .02525
38)	1,3-Dichloropropane	Avg RF: .47592
39)	2-Hexanone	Avg RF: .17787
40)	Dibromochloromethane	Avg RF: .35882
41)	1,2-Dibromoethane	Avg RF: .32671
42)	Chlorobenzene	Avg RF: .93585
43)	1,1,1,2-Tetrachloroethane	Avg RF: .36895
44)	Ethylbenzene	Avg RF: 1.66147
45)	m &/or p-Xylene	Avg RF: .53827
46)	o-Xylene	Avg RF: .49946
47)	Styrene	Avg RF: [illegible]

48)	Bromoform	Avg RF:	.28999
49)	Isopropylbenzene	Avg RF:	1.48703
50)	p-BROMOFLUOROBENZENE	Avg RF:	.46247
51)	Bromobenzene	Avg RF:	.41906
52)	1,2,3-Trichloropropane	Avg RF:	.38160
53)	1,1,2,2-Tetrachloroethane	Avg RF:	.31786
54)	n-Propylbenzene	Avg RF:	.35972
55)	2-Chlorotoluene	Avg RF:	.33115
56)	4-Chlorotoluene	Avg RF:	.34722
57)	1,3,5-Trimethylbenzene	Avg RF:	1.30557
58)	tert-Butylbenzene	Avg RF:	.98669
59)	1,2,4-Trimethylbenzene	Avg RF:	1.33044
60)	sec-Butylbenzene	Avg RF:	1.51527
61)	1,3-Dichlorobenzene	Avg RF:	.72417
62)	1,4-Dichlorobenzene	Avg RF:	.74843
63)	p-Isopropyltoluene	Avg RF:	1.26199
64)	1,2-DICHLOROBENZENE-D4	Avg RF:	.47908
65)	1,2-Dichlorobenzene	Avg RF:	.67970
66)	n-Butylbenzene	Avg RF:	1.31556
67)	1,2-Dibromo-3-chloropropane	Avg RF:	.08000
68)	1,2,4-Trichlorobenzene	Avg RF:	.47235
69)	Naphthalene	Avg RF:	1.07874
70)	Hexachlorobutadiene	Avg RF:	.27369
71)	1,2,3-Trichlorobenzene	Avg RF:	.44500

Calibration Time Stamp Updated: 930616 09:48

QUANT REPORT

Operator ID: TONY
Output File: ^AG240::D5
Data File: >AG240::D4
Name: 5 PPB VOA STD
Misc: 5/25/93 HP#4, 5mL PURGE

Quant Rev: 7
Quant Time: 930525 14:16
Injected at: 930525 13:43
Dilution Factor: 1.00000
Instrument ID: HP MS#4

ID File: IDAG08::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930518 10:10
Last Qcal Time: 930519 11:16

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.14	96.0	94921	10.00	ug/L	96
2)	Dichlorodifluoromethane	2.93	85.0	43589M	20.78	ug/L	83
3)	Chloromethane	3.34	50.0	46608M	54.04	ug/L	
4)	Vinyl chloride	3.54	62.0	40055M	18.37	ug/L	95
5)	Bromomethane	4.21	94.0	28814	19.30	ug/L	97
6)	Chloroethane	4.49	64.0	20315M	18.80	ug/L	90
7)	Trichlorofluoromethane	5.00	101.0	55464M	66.27	ug/L	98
8)	Acrolein	6.41	56.0	517M	20.80	ug/L	
9)	1,1-Dichloroethene	6.48	96.0	13037	8.10	ug/L	96
10)	Acetone	6.95	43.0	18586	19.52	ug/L	96
11)	Carbon disulfide	6.79	76.0	36998	4.04	ug/L	98
12)	Methylene chloride	7.94	84.0	18289	8.03	ug/L	89
13)	trans-1,2-Dichloroethene	8.54	96.0	14087	6.88	ug/L	94
14)	Acrylonitrile	8.67	53.0	25266	20.78	ug/L	94
15)	1,1-Dichloroethane	9.51	63.0	25916	27.70	ug/L	97
16)	Vinyl acetate	9.98	43.0	15310M	28.12	ug/L	100
17)	2,2-Dichloropropane	10.72	77.0	18866	4.69	ug/L	86
18)	cis-1,2-Dichloroethene	10.80	96.0	12718	7.89	ug/L	83
19)	2-Butanone	11.02	43.0	18911	17.76	ug/L	78
20)	Bromochloromethane	11.30	128.0	9631	10.55	ug/L	95
21)	Chloroform	11.57	83.0	33203	13.60	ug/L	98
22)	1,1,1-Trichloroethane	11.75	97.0	26530	4.58	ug/L	97
23)	Carbon tetrachloride	12.05	117.0	17555	5.19	ug/L	99
24)	1,1-Dichloropropene	12.09	75.0	20780	4.69	ug/L	97
25)	BENZENE-D6	12.43	84.0	91806	10.16	ug/L	99
26)	Benzene	12.50	78.0	50079	4.93	ug/L	98
27)	1,2-Dichloroethane	12.64	62.0	29136	5.80	ug/L	93
28)	*TOLUENE-D8	16.28	98.0	92269	10.00	ug/L	95
29)	Trichloroethene	13.86	95.0	19945	4.35	ug/L	81
30)	1,2-Dichloropropane	14.31	63.0	13687	5.19	ug/L	94
31)	Dibromomethane	14.55	174.0	12524	5.68	ug/L	97
33)	Bromodichloromethane	14.94	83.0	23488	5.03	ug/L	99
34)	cis-1,3-Dichloropropene	15.83	75.0	11594	2.43	ug/L	92
35)	Toluene	16.41	92.0	28921	4.84	ug/L	92
36)	4-Methyl-2-pentanone	16.23	43.0	28614	9.53	ug/L	89
37)	trans-1,3-Dichloropropene	17.01	75.0	9019	1.99	ug/L	97
38)	Tetrachloroethene	17.47	166.0	15419M	5.09	ug/L	
39)	1,1,2-Trichloroethane	17.33	132.0	1336	5.45	ug/L	86
40)	1,3-Dichloropropane	17.64	76.0	21893	4.83	ug/L	99
41)	2-Hexanone	17.94	43.0	16532	8.11	ug/L	81

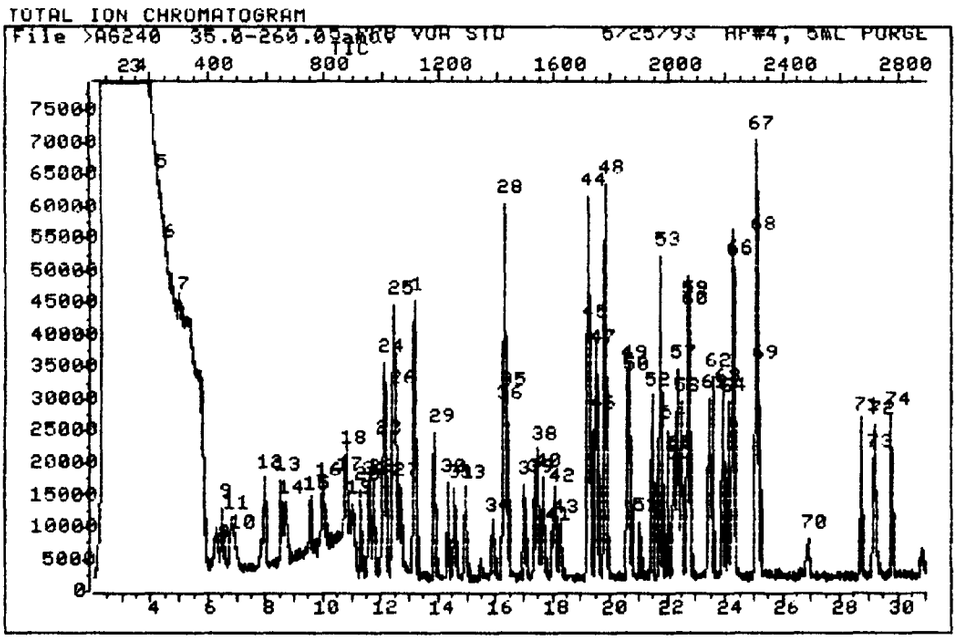
Operator ID: TONY Quant Rev: 7 Quant Time: 930525 14:16
Output File: ^AG240::D5 Injected at: 930525 13:43
Data File: >AG240::D4 Dilution Factor: 1.00000
Name: 5 PPB VOA STD Instrument ID: HP MS#4
Misc: 5/25/93 HP#4, 5mL PURGE

ID File: IDAG08::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930518 10:10 Last Qcal Time: 930519 11:16

	Compound	R.T.	Q ion	Area	Conc	Units	q
42)	Dibromochloromethane	18.08	129.0	15098	4.68	ug/L	97
43)	1,2-Dibromoethane	18.23	107.0	15282	4.75	ug/L	92
44)	*CHLOROBENZENE-D5	19.21	117.0	71287	10.00	ug/L	98
45)	Chlorobenzene	19.26	112.0	32599	4.61	ug/L	85
46)	1,1,1,2-Tetrachloroethane	19.49	131.0	13110	5.12	ug/L	99
47)	Ethylbenzene	19.54	91.0	57893	4.53	ug/L	98
48)	m &/or p-Xylene	19.79	106.0	38233	9.24	ug/L	78
49)	o-Xylene	20.61	106.0	18195	4.81	ug/L	95
50)	Styrene	20.66	104.0	29864	4.62	ug/L	91
51)	Bromoform	21.02	173.0	8941	4.61	ug/L	94
52)	Isopropylbenzene	21.42	105.0	51612	4.49	ug/L	94
53)	p-BROMOFLUOROBENZENE	21.73	174.0	32983	10.64	ug/L	99
54)	Bromobenzene	21.98	156.0	15372	5.04	ug/L	99
55)	1,2,3-Trichloropropane	22.22	75.0	14876	4.79	ug/L	82
56)	1,1,2,2-Tetrachloroethane	22.19	83.0	11314	7.20	ug/L	98
57)	n-Propylbenzene	22.31	120.0	12829	4.61	ug/L	98
58)	2-Chlorotoluene	22.43	126.0	12163	4.89	ug/L	95
59)	4-Chlorotoluene	22.69	126.0	13226	5.05	ug/L	89
60)	1,3,5-Trimethylbenzene	22.73	105.0	47004	4.65	ug/L	85
61)	tert-Butylbenzene	23.40	119.0	34926	4.56	ug/L	82
62)	1,2,4-Trimethylbenzene	23.52	105.0	47498	4.70	ug/L	87
63)	sec-Butylbenzene	23.89	105.0	53909	4.44	ug/L	92
64)	1,3-Dichlorobenzene	24.06	146.0	27606	5.11	ug/L	96
65)	1,4-Dichlorobenzene	24.28	146.0	28998	5.22	ug/L	92
66)	p-Isopropyltoluene	24.25	119.0	45083	4.46	ug/L	86
67)	1,2-DICHLOROBENZENE-D4	25.04	152.0	33881	10.21	ug/L	95
68)	1,2-Dichlorobenzene	25.07	146.0	25869	5.16	ug/L	88
69)	n-Butylbenzene	25.16	91.0	47110	4.44	ug/L	88
70)	1,2-Dibromo-3-chloropropane	26.86	157.0	3142	4.99	ug/L	89
71)	1,2,4-Trichlorobenzene	28.70	180.0	19994	5.62	ug/L	94
72)	Naphthalene	29.21	128.0	43954	4.87	ug/L	100
73)	Hexachlorobutadiene	29.12	225.0	11686	5.27	ug/L	94
74)	1,2,3-Trichlorobenzene	29.77	180.0	19209	5.65	ug/L	92

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG240::D4 Quant Output File: ^AG240::D5
Name: 5 PPB VOA STD Instrument ID: HP MS#4
Misc: 5/25/93 HP#4, 5mL PURGE

Id File: IDAG08::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930518 10:10 Last Qcal Time: 930519 11:16

Operator ID: TONY
Quant Time : 930525 14:16
Injected at: 930525 13:43

QUANT REPORT

Operator ID: TONY Quant Rev: 7 Quant Time: 930525 14:55
Output File: ^AG241::D5 Injected at: 930525 14:22
Data File: >AG241::D4 Dilution Factor: 1.00000
Name: 25 PPB VOA STD Instrument ID: HP MS#4
Misc: 5/25/93 HP#4, 5mL PURGE

ID File: IDAG08::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930518 10:10 Last Qcal Time: 930519 11:16

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.15	96.0	81580	10.00	ug/L	96
2)	Dichlorodifluoromethane	2.94	85.0	111482M	61.83	ug/L	91
3)	Chloromethane	3.32	50.0	109041M	147.09	ug/L	50
4)	Vinyl chloride	3.57	62.0	96179M	51.33	ug/L	94
5)	Bromomethane	4.23	94.0	67089	52.28	ug/L	94
6)	Chloroethane	4.43	64.0	45954M	49.49	ug/L	96
7)	Trichlorofluoromethane	4.99	101.0	138660M	192.76	ug/L	96
8)	Acrolein	6.41	56.0	1195M	55.94	ug/L	
9)	1,1-Dichloroethene	6.46	96.0	58023	41.95	ug/L	94
10)	Acetone	6.94	43.0	47677	58.26	ug/L	94
11)	Carbon disulfide	6.78	76.0	168682	21.44	ug/L	98
12)	Methylene chloride	7.93	84.0	69762	35.62	ug/L	93
13)	trans-1,2-Dichloroethene	8.53	96.0	61707	35.09	ug/L	99
14)	Acrylonitrile	8.68	53.0	104039	99.56	ug/L	89
15)	1,1-Dichloroethane	9.52	63.0	111311	138.44	ug/L	98
16)	Vinyl acetate	9.94	43.0	70838	151.38	ug/L	100
17)	2,2-Dichloropropane	10.74	77.0	80649	23.32	ug/L	95
18)	cis-1,2-Dichloroethene	10.82	96.0	57022	41.15	ug/L	91
19)	2-Butanone	11.02	43.0	55658	60.83	ug/L	77
20)	Bromochloromethane	11.30	128.0	41049	52.31	ug/L	96
21)	Chloroform	11.58	83.0	142439	67.86	ug/L	97
22)	1,1,1-Trichloroethane	11.76	97.0	118092	23.75	ug/L	98
23)	Carbon tetrachloride	12.06	117.0	87124	29.98	ug/L	94
24)	1,1-Dichloropropene	12.10	75.0	91338	23.99	ug/L	95
25)	BENZENE-D6	12.44	84.0	78652	10.13	ug/L	99
26)	Benzene	12.51	78.0	215113	24.63	ug/L	99
27)	1,2-Dichloroethane	12.65	62.0	122798	28.46	ug/L	99
28)	*TOLUENE-D8	16.28	98.0	80348	10.00	ug/L	91
29)	Trichloroethene	13.86	95.0	80600	20.20	ug/L	88
30)	1,2-Dichloropropane	14.31	63.0	58319	25.39	ug/L	96
31)	Dibromomethane	14.55	174.0	52646	27.41	ug/L	99
32)	2-Chloroethyl vinylether	15.66	63.0	3219	6.42	ug/L	81
33)	Bromodichloromethane	14.95	83.0	104397	25.66	ug/L	98
34)	cis-1,3-Dichloropropene	15.84	75.0	50387	12.13	ug/L	93
35)	Toluene	16.41	92.0	125379	24.09	ug/L	93
36)	4-Methyl-2-pentanone	16.23	43.0	104237	39.86	ug/L	91
37)	trans-1,3-Dichloropropene	17.01	75.0	40336	10.24	ug/L	96
38)	Tetrachloroethene	17.47	166.0	64482	24.47	ug/L	97
39)	1,1,2-Trichloroethane	17.34	132.0	5068	23.75	ug/L	97
40)	1,3-Dichloropropane	17.65	76.0	94578	23.98	ug/L	98

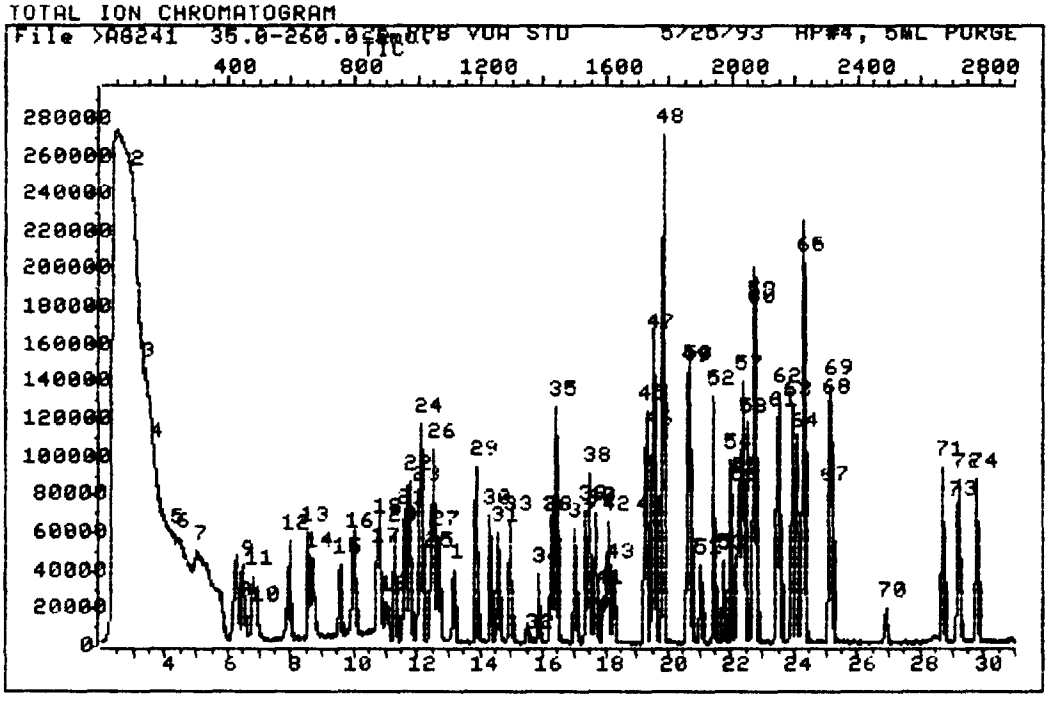
Operator ID: TONY Quant Rev: 7 Quant Time: 930525 14:55
Output File: ^AG241::D5 Injected at: 930525 14:22
Data File: >AG241::D4 Dilution Factor: 1.00000
Name: 25 PPB VOA STD Instrument ID: HP MS#4
Misc: 5/25/93 HP#4, 5mL PURGE

ID File: IDAG08::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930518 10:10 Last Qcal Time: 930519 11:16

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	2-Hexanone	17.93	43.0	63468M	35.77	ug/L	85
42)	Dibromochloromethane	18.08	129.0	71782	25.54	ug/L	97
43)	1,2-Dibromoethane	18.24	107.0	65293	23.29	ug/L	95
44)	*CHLOROBENZENE-D5	19.21	117.0	60714	10.00	ug/L	96
45)	Chlorobenzene	19.26	112.0	142734	23.70	ug/L	92
46)	1,1,1,2-Tetrachloroethane	19.49	131.0	57778	26.51	ug/L	97
47)	Ethylbenzene	19.54	91.0	256608	23.56	ug/L	93
48)	m &/or p-Xylene	19.80	106.0	166752	47.30	ug/L	76
49)	o-Xylene	20.62	106.0	77753	24.12	ug/L	90
50)	Styrene	20.67	104.0	131704	23.92	ug/L	90
51)	Bromoform	21.03	173.0	44544	26.96	ug/L	99
52)	Isopropylbenzene	21.43	105.0	227356	23.23	ug/L	91
53)	p-BROMOFLUOROBENZENE	21.74	174.0	27964	10.60	ug/L	94
54)	Bromobenzene	21.99	156.0	64713	24.93	ug/L	98
55)	1,2,3-Trichloropropane	22.22	75.0	57648	21.79	ug/L	89
56)	1,1,2,2-Tetrachloroethane	22.21	83.0	51827	38.70	ug/L	98
57)	n-Propylbenzene	22.32	120.0	55092	23.23	ug/L	99
58)	2-Chlorotoluene	22.44	126.0	51326	24.21	ug/L	91
59)	4-Chlorotoluene	22.70	126.0	52848	23.68	ug/L	87
60)	1,3,5-Trimethylbenzene	22.74	105.0	199148	23.14	ug/L	79
61)	tert-Butylbenzene	23.42	119.0	152211	23.35	ug/L	80
62)	1,2,4-Trimethylbenzene	23.53	105.0	202124	23.50	ug/L	82
63)	sec-Butylbenzene	23.90	105.0	232873	22.50	ug/L	92
64)	1,3-Dichlorobenzene	24.07	146.0	109974	23.92	ug/L	93
65)	1,4-Dichlorobenzene	24.29	146.0	114304	24.16	ug/L	95
66)	p-Isopropyltoluene	24.26	119.0	193631	22.48	ug/L	87
67)	1,2-DICHLOROBENZENE-D4	25.04	152.0	29301	10.36	ug/L	99
68)	1,2-Dichlorobenzene	25.08	146.0	103515	24.27	ug/L	93
69)	n-Butylbenzene	25.17	91.0	199293	22.05	ug/L	87
70)	1,2-Dibromo-3-chloropropane	26.86	157.0	12209	22.74	ug/L	93
71)	1,2,4-Trichlorobenzene	28.69	180.0	71053	23.46	ug/L	94
72)	Naphthalene	29.21	128.0	156732	20.40	ug/L	100
73)	Hexachlorobutadiene	29.13	225.0	43162	22.83	ug/L	98
74)	1,2,3-Trichlorobenzene	29.77	180.0	66470	22.95	ug/L	96

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG241::D4 Quant Output File: ^AG241::D5
Name: 25 PPB VOA STD Instrument ID: HP MS#4
Misc: 5/25/93 HP#4, 5mL PURGE

Id File: IDAG08::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930518 10:10 Last Qcal Time: 930519 11:16

Operator ID: TONY
Quant Time : 930525 14:55
Injected at: 930525 14:22

QUANT REPORT

Operator ID: TONY
Quant Rev: 7
Quant Time: 930525 15:34
Output File: ^AG242::D5
Injected at: 930525 15:01
Data File: >AG242::D4
Dilution Factor: 1.00000
Name: 50 PPB VOA STD
Instrument ID: HP MS#4
Misc: 5/25/93 HP#4, 5mL PURGE

ID File: IDAG08::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930518 10:10
Last Qcal Time: 930519 11:16

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.15	96.0	79026	10.00	ug/L	97
2)	Dichlorodifluoromethane	2.91	85.0	194006M	111.08	ug/L	99
3)	Chloromethane	3.30	50.0	184172M	256.47	ug/L	
4)	Vinyl chloride	3.55	62.0	165066	90.94	ug/L	98
5)	Bromomethane	4.21	94.0	117694	94.68	ug/L	98
6)	Chloroethane	4.47	64.0	76777	85.36	ug/L	91
7)	Trichlorofluoromethane	5.01	101.0	226764M	325.42	ug/L	96
8)	Acrolein	6.45	56.0	2647M	127.91	ug/L	
9)	1,1-Dichloroethene	6.47	96.0	111435	83.16	ug/L	97
10)	Acetone	6.98	43.0	102558	129.36	ug/L	96
11)	Carbon disulfide	6.78	76.0	325359	42.68	ug/L	98
12)	Methylene chloride	7.94	84.0	135084	71.21	ug/L	95
13)	trans-1,2-Dichloroethene	8.54	96.0	120586	70.79	ug/L	99
14)	Acrylonitrile	8.69	53.0	205746	203.25	ug/L	89
15)	1,1-Dichloroethane	9.54	63.0	222579	285.77	ug/L	99
16)	Vinyl acetate	9.97	43.0	121756	268.60	ug/L	100
17)	2,2-Dichloropropane	10.74	77.0	154276	46.06	ug/L	96
18)	cis-1,2-Dichloroethene	10.83	96.0	114912	85.61	ug/L	94
19)	2-Butanone	11.04	43.0	134448	151.69	ug/L	76
20)	Bromochloromethane	11.31	128.0	78399	103.13	ug/L	97
21)	Chloroform	11.59	83.0	285963	140.64	ug/L	95
22)	1,1,1-Trichloroethane	11.76	97.0	235998	48.99	ug/L	99
23)	Carbon tetrachloride	12.06	117.0	177908	63.21	ug/L	94
24)	1,1-Dichloropropene	12.12	75.0	183732	49.81	ug/L	99
25)	BENZENE-D6	12.45	84.0	74428	9.89	ug/L	99
26)	Benzene	12.52	78.0	420260	49.68	ug/L	99
27)	1,2-Dichloroethane	12.66	62.0	244964	58.62	ug/L	96
28)	*TOLUENE-D8	16.29	98.0	75061	10.00	ug/L	85
29)	Trichloroethene	13.88	95.0	168007	45.07	ug/L	84
30)	1,2-Dichloropropane	14.33	63.0	118799	55.37	ug/L	93
31)	Dibromomethane	14.57	174.0	99764	55.59	ug/L	97
32)	2-Chloroethyl vinylether	15.65	63.0	5967	12.74	ug/L	86
33)	Bromodichloromethane	14.97	83.0	206096	54.23	ug/L	98
34)	cis-1,3-Dichloropropene	15.85	75.0	101797	26.23	ug/L	94
35)	Toluene	16.42	92.0	248146	51.04	ug/L	90
36)	4-Methyl-2-pentanone	16.24	43.0	209814	85.88	ug/L	91
37)	trans-1,3-Dichloropropene	17.01	75.0	82983	22.55	ug/L	99
38)	Tetrachloroethene	17.48	166.0	126717	51.47	ug/L	95
39)	1,1,2-Trichloroethane	17.34	132.0	9944	49.89	ug/L	97
40)	1,3-Dichloropropane	17.66	76.0	188584	51.19	ug/L	95

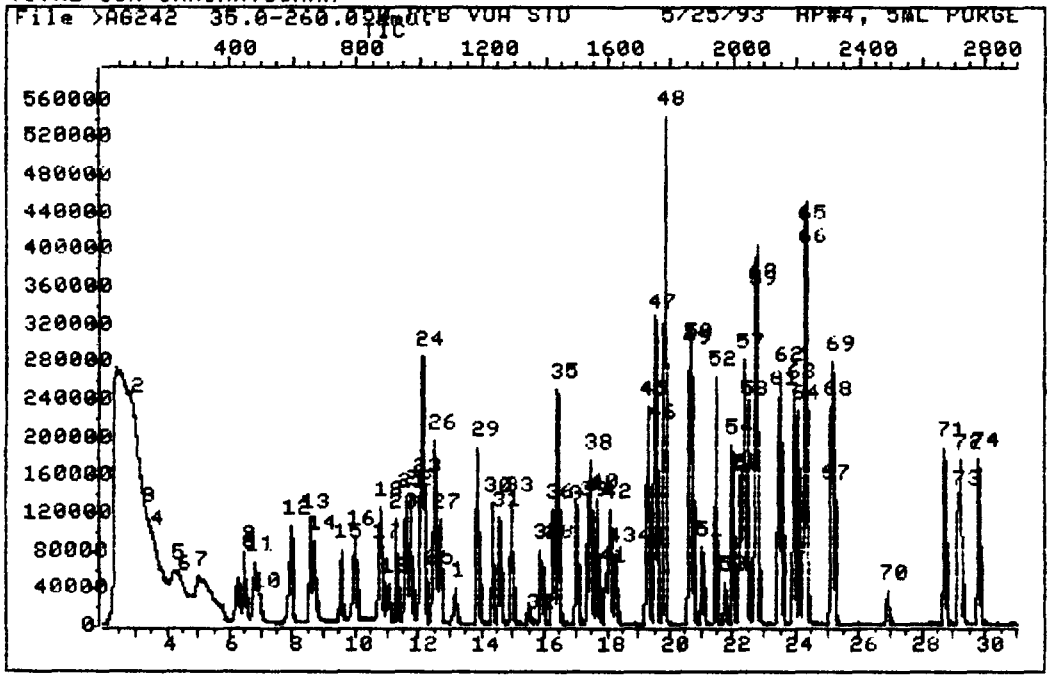
Operator ID: TONY Quant Rev: 7 Quant Time: 930525 15:34
Output File: ^AG242::D5 Injected at: 930525 15:01
Data File: >AG242::D4 Dilution Factor: 1.00000
Name: 50 PPB VOA STD Instrument ID: HP MS#4
Misc: 5/25/93 HP#4, 5mL PURGE

ID File: IDAG08::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930518 10:10 Last Qcal Time: 930519 11:16

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	2-Hexanone	17.94	43.0	123899	74.75	ug/L	89
42)	Dibromochloromethane	18.09	129.0	143338	54.59	ug/L	99
43)	1,2-Dibromoethane	18.25	107.0	128255	48.97	ug/L	96
44)	*CHLOROBENZENE-D5	19.22	117.0	58094	10.00	ug/L	96
45)	Chlorobenzene	19.28	112.0	284536	49.39	ug/L	93
46)	1,1,1,2-Tetrachloroethane	19.50	131.0	112984	54.17	ug/L	98
47)	Ethylbenzene	19.55	91.0	516852	49.59	ug/L	92
48)	m &/or p-Xylene	19.81	106.0	330013	97.83	ug/L	73
49)	o-Xylene	20.63	106.0	151120	48.99	ug/L	85
50)	Styrene	20.68	104.0	259256	49.20	ug/L	89
51)	Bromoform	21.04	173.0	87699	55.48	ug/L	96
52)	Isopropylbenzene	21.44	105.0	465212	49.68	ug/L	92
53)	p-BROMOFLUOROBENZENE	21.75	174.0	26965	10.68	ug/L	93
54)	Bromobenzene	22.00	156.0	126303	50.84	ug/L	99
55)	1,2,3-Trichloropropane	22.24	75.0	113796	44.96	ug/L	88
56)	1,1,2,2-Tetrachloroethane	22.22	83.0	95143	74.26	ug/L	96
57)	n-Propylbenzene	22.34	120.0	112377	49.52	ug/L	98
58)	2-Chlorotoluene	22.45	126.0	100388	49.50	ug/L	90
59)	4-Chlorotoluene	22.71	126.0	105984	49.63	ug/L	87
60)	1,3,5-Trimethylbenzene	22.75	105.0	404549	49.13	ug/L	81
61)	tert-Butylbenzene	23.43	119.0	310023	49.70	ug/L	77
62)	1,2,4-Trimethylbenzene	23.55	105.0	413419	50.23	ug/L	82
63)	sec-Butylbenzene	23.92	105.0	480117	48.48	ug/L	90
64)	1,3-Dichlorobenzene	24.09	146.0	216556	49.22	ug/L	90
65)	1,4-Dichlorobenzene	24.30	146.0	224569	49.60	ug/L	94
66)	p-Isopropyltoluene	24.27	119.0	401141	48.66	ug/L	87
67)	1,2-DICHLOROBENZENE-D4	25.06	152.0	27898	10.31	ug/L	90
68)	1,2-Dichlorobenzene	25.09	146.0	206165	50.51	ug/L	93
69)	n-Butylbenzene	25.18	91.0	421211	48.70	ug/L	87
70)	1,2-Dibromo-3-chloropropane	26.89	157.0	24183	47.08	ug/L	98
71)	1,2,4-Trichlorobenzene	28.72	180.0	141981	48.99	ug/L	95
72)	Naphthalene	29.24	128.0	322968	43.92	ug/L	100
73)	Hexachlorobutadiene	29.15	225.0	84841	46.91	ug/L	98
74)	1,2,3-Trichlorobenzene	29.80	180.0	133375	48.12	ug/L	96

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG242::D4 Quant Output File: ^AG242::D5
Name: 50 PPB VOA STD Instrument ID: HP MS#4
Misc: 5/25/93 HP#4, 5mL PURGE

Id File: IDAG08::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930518 10:10 Last Qcal Time: 930519 11:16

Operator ID: TONY
Quant Time : 930525 15:34
Injected at: 930525 15:01

QUANT REPORT

Operator ID: TONY
Output File: ^AG243::D5
Data File: >AG243::D4
Name: 100 PPB VOA STD
Misc: 5/25/93 HP#4, 5mL PURGE

Quant Rev: 7
Quant Time: 930525 16:14
Injected at: 930525 15:40
Dilution Factor: 1.00000
Instrument ID: HP MS#4

ID File: IDAG08::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930518 10:10
Last Qcal Time: 930519 11:16

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.16	96.0	77294	10.00	ug/L	97
2)	Dichlorodifluoromethane	2.95	85.0	338431	198.11	ug/L	97
3)	Chloromethane	3.33	50.0	332470M	473.36	ug/L	
4)	Vinyl chloride	3.59	62.0	303615	171.01	ug/L	97
5)	Bromomethane	4.26	94.0	212260	174.59	ug/L	97
6)	Chloroethane	4.45	64.0	143614	163.24	ug/L	99
7)	Trichlorofluoromethane	5.02	101.0	295471M	433.52	ug/L	98
8)	Acrolein	6.27	56.0	4088M	201.97	ug/L	86
9)	1,1-Dichloroethene	6.47	96.0	212783	162.36	ug/L	96
10)	Acetone	7.03	43.0	177744M	229.22	ug/L	98
11)	Carbon disulfide	6.78	76.0	644543	86.45	ug/L	99
12)	Methylene chloride	7.97	84.0	264125	142.35	ug/L	90
13)	trans-1,2-Dichloroethene	8.56	96.0	235677	141.45	ug/L	95
14)	Acrylonitrile	8.72	53.0	404051	408.09	ug/L	91
15)	1,1-Dichloroethane	9.55	63.0	440070	577.67	ug/L	99
16)	Vinyl acetate	10.00	43.0	236273M	532.91	ug/L	100
17)	2,2-Dichloropropane	10.76	77.0	290860	88.78	ug/L	95
18)	cis-1,2-Dichloroethene	10.84	96.0	231218	176.13	ug/L	96
19)	2-Butanone	11.06	43.0	252248	290.97	ug/L	80
20)	Bromochloromethane	11.33	128.0	150733	202.73	ug/L	98
21)	Chloroform	11.61	83.0	563725	283.46	ug/L	96
22)	1,1,1-Trichloroethane	11.78	97.0	463693	98.41	ug/L	97
23)	Carbon tetrachloride	12.08	117.0	341289	123.97	ug/L	93
24)	1,1-Dichloropropene	12.13	75.0	349597	96.91	ug/L	97
25)	BENZENE-D6	12.46	84.0	73648	10.01	ug/L	99
26)	Benzene	12.54	78.0	851251	102.89	ug/L	98
27)	1,2-Dichloroethane	12.68	62.0	494230	120.91	ug/L	96
28)	*TOLUENE-D8	16.31	98.0	76443M	10.00	ug/L	
29)	Trichloroethene	13.89	95.0	316707	83.43	ug/L	86
30)	1,2-Dichloropropane	14.34	63.0	228306	104.49	ug/L	93
31)	Dibromomethane	14.58	174.0	193994	106.14	ug/L	97
32)	2-Chloroethyl vinylether	15.68	63.0	11618	24.35	ug/L	95
33)	Bromodichloromethane	14.97	83.0	413752	106.91	ug/L	98
34)	cis-1,3-Dichloropropene	15.86	75.0	200152	50.65	ug/L	97
35)	Toluene	16.44	92.0	496548	100.28	ug/L	90
36)	4-Methyl-2-pentanone	16.26	43.0	423505	170.22	ug/L	90
37)	trans-1,3-Dichloropropene	17.03	75.0	163855	43.73	ug/L	98
38)	Tetrachloroethene	17.49	166.0	239599	95.55	ug/L	98
39)	1,1,2-Trichloroethane	17.37	132.0	17886	88.11	ug/L	93
40)	1,3-Dichloropropane	17.67	76.0	365390	97.39	ug/L	99

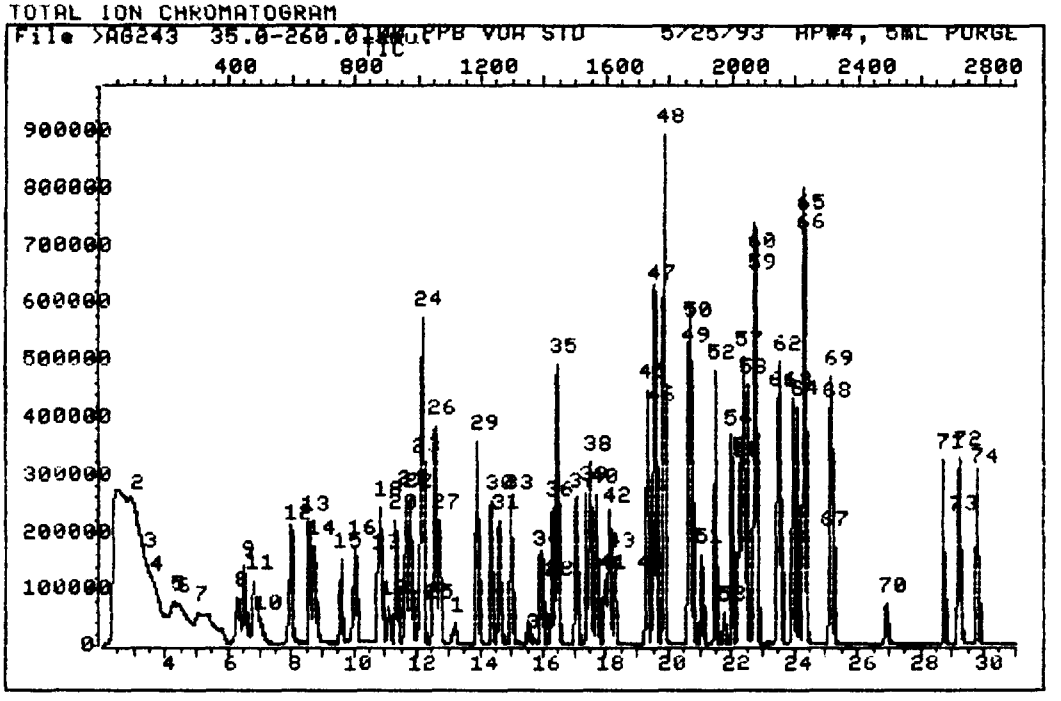
Operator ID: TONY Quant Rev: 7 Quant Time: 930525 16:14
Output File: ^AG243::D5 Injected at: 930525 15:40
Data File: >AG243::D4 Dilution Factor: 1.00000
Name: 100 PPB VOA STD Instrument ID: HP MS#4
Misc: 5/25/93 HP#4, 5mL PURGE

ID File: IDAG08::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930518 10:10 Last Qcal Time: 930519 11:16

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	2-Hexanone	17.95	43.0	252463	149.55	ug/L	91
42)	Dibromochloromethane	18.11	129.0	285185	106.65	ug/L	99
43)	1,2-Dibromoethane	18.26	107.0	250738	94.01	ug/L	98
44)	*CHLOROBENZENE-D5	19.23	117.0	58099	10.00	ug/L	98
45)	Chlorobenzene	19.28	112.0	568316	98.63	ug/L	95
46)	1,1,1,2-Tetrachloroethane	19.51	131.0	216825	103.94	ug/L	96
47)	Ethylbenzene	19.56	91.0	1010742	96.96	ug/L	91
48)	m &/or p-Xylene	19.82	106.0	632139	187.38	ug/L	95
49)	o-Xylene	20.63	106.0	292260	94.75	ug/L	87
50)	Styrene	20.69	104.0	514778	97.69	ug/L	91
51)	Bromoform	21.04	173.0	176380	111.58	ug/L	98
52)	Isopropylbenzene	21.45	105.0	875796	93.53	ug/L	90
53)	p-BROMOFLUOROBENZENE	21.75	174.0	27086	10.72	ug/L	98
54)	Bromobenzene	22.00	156.0	244839	98.55	ug/L	99
55)	1,2,3-Trichloropropane	22.24	75.0	218013	86.12	ug/L	87
56)	1,1,2,2-Tetrachloroethane	22.23	83.0	195964	152.93	ug/L	96
57)	n-Propylbenzene	22.34	120.0	206910	91.18	ug/L	98
58)	2-Chlorotoluene	22.46	126.0	190015	93.68	ug/L	88
59)	4-Chlorotoluene	22.71	126.0	198320	92.86	ug/L	84
60)	1,3,5-Trimethylbenzene	22.75	105.0	756436	91.86	ug/L	80
61)	tert-Butylbenzene	23.43	119.0	560131	89.78	ug/L	79
62)	1,2,4-Trimethylbenzene	23.55	105.0	771554	93.73	ug/L	82
63)	sec-Butylbenzene	23.91	105.0	848764	85.70	ug/L	89
64)	1,3-Dichlorobenzene	24.09	146.0	413715	94.02	ug/L	91
65)	1,4-Dichlorobenzene	24.30	146.0	424943	93.85	ug/L	94
66)	p-Isopropyltoluene	24.27	119.0	703015	85.27	ug/L	87
67)	1,2-DICHLOROBENZENE-D4	25.06	152.0	28324	10.47	ug/L	83
68)	1,2-Dichlorobenzene	25.10	146.0	385735	94.50	ug/L	92
69)	n-Butylbenzene	25.19	91.0	724276	83.73	ug/L	84
70)	1,2-Dibromo-3-chloropropane	26.89	157.0	47696	92.85	ug/L	99
71)	1,2,4-Trichlorobenzene	28.71	180.0	247290	85.32	ug/L	96
72)	Naphthalene	29.23	128.0	616449	83.83	ug/L	100
73)	Hexachlorobutadiene	29.14	225.0	130474	72.13	ug/L	97
74)	1,2,3-Trichlorobenzene	29.79	180.0	231062	83.36	ug/L	95

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG243::D4 Quant Output File: ^AG243::D5
Name: 100 PPB VOA STD Instrument ID: HP MS#4
Misc: 5/25/93 HP#4, 5mL PURGE

Id File: IDAG08::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930518 10:10 Last Qcal Time: 930519 11:16

Operator ID: TONY
Quant Time : 930525 16:14
Injected at: 930525 15:40

QUANT REPORT

Operator ID: TONY
Output File: ^AG244::D5
Data File: >AG244::D4
Name: 150 PPB VOA STD
Misc: 5/25/93 HP#4, 5mL PURGE

Quant Rev: 7
Quant Time: 930525 16:53
Injected at: 930525 16:20
Dilution Factor: 1.00000
Instrument ID: HP MS#4

ID File: IDAG08::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930518 10:10
Last Qcal Time: 930519 11:16

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.16	96.0	74196	10.00	ug/L	97
2)	Dichlorodifluoromethane	2.91	85.0	406975M	248.18	ug/L	97
3)	Chloromethane	3.25	50.0	398598M	591.21	ug/L	47
4)	Vinyl chloride	3.48	62.0	357734	209.91	ug/L	99
5)	Bromomethane	4.16	94.0	255373	218.82	ug/L	96
6)	Chloroethane	4.39	64.0	175807	208.18	ug/L	95
7)	Trichlorofluoromethane	4.95	101.0	307252M	469.63	ug/L	98
8)	Acrolein	6.43	56.0	7811M	402.02	ug/L	96
9)	1,1-Dichloroethene	6.43	96.0	272340	216.48	ug/L	98
10)	Acetone	7.00	43.0	274523	368.82	ug/L	94
11)	Carbon disulfide	6.73	76.0	842854	117.77	ug/L	99
12)	Methylene chloride	7.92	84.0	341316	191.64	ug/L	93
13)	trans-1,2-Dichloroethene	8.52	96.0	307256	192.11	ug/L	98
14)	Acrylonitrile	8.70	53.0	543542	571.90	ug/L	89
15)	1,1-Dichloroethane	9.53	63.0	572274	782.57	ug/L	98
16)	Vinyl acetate	9.97	43.0	295892	695.25	ug/L	100
17)	2,2-Dichloropropane	10.74	77.0	384946	122.41	ug/L	95
18)	cis-1,2-Dichloroethene	10.83	96.0	293073	232.57	ug/L	96
19)	2-Butanone	11.05	43.0	427592	513.83	ug/L	77
20)	Bromochloromethane	11.31	128.0	200058	280.31	ug/L	98
21)	Chloroform	11.59	83.0	733103	384.03	ug/L	96
22)	1,1,1-Trichloroethane	11.76	97.0	602017	133.10	ug/L	97
23)	Carbon tetrachloride	12.07	117.0	449658	170.15	ug/L	96
24)	1,1-Dichloropropene	12.12	75.0	453668	131.01	ug/L	98
25)	BENZENE-D6	12.45	84.0	68886	9.75	ug/L	98
26)	Benzene	12.53	78.0	1100157	138.52	ug/L	96
27)	1,2-Dichloroethane	12.67	62.0	651706	166.10	ug/L	95
28)	*TOLUENE-D8	16.31	98.0	70741	10.00	ug/L	84
29)	Trichloroethene	13.88	95.0	440667	125.45	ug/L	87
30)	1,2-Dichloropropane	14.33	63.0	298818	147.78	ug/L	94
31)	Dibromomethane	14.57	174.0	256156	151.45	ug/L	97
32)	2-Chloroethyl vinylether	15.67	63.0	15384	34.84	ug/L	99
33)	Bromodichloromethane	14.97	83.0	541307	151.14	ug/L	98
34)	cis-1,3-Dichloropropene	15.86	75.0	264869	72.43	ug/L	94
35)	Toluene	16.44	92.0	662574	144.60	ug/L	98
36)	4-Methyl-2-pentanone	16.26	43.0	615085	267.14	ug/L	90
37)	trans-1,3-Dichloropropene	17.03	75.0	213251	61.50	ug/L	98
38)	Tetrachloroethene	17.50	166.0	322633	139.04	ug/L	99
39)	1,1,2-Trichloroethane	17.36	132.0	23500	125.09	ug/L	88
40)	1,3-Dichloropropane	17.67	76.0	481459	138.67	ug/L	99

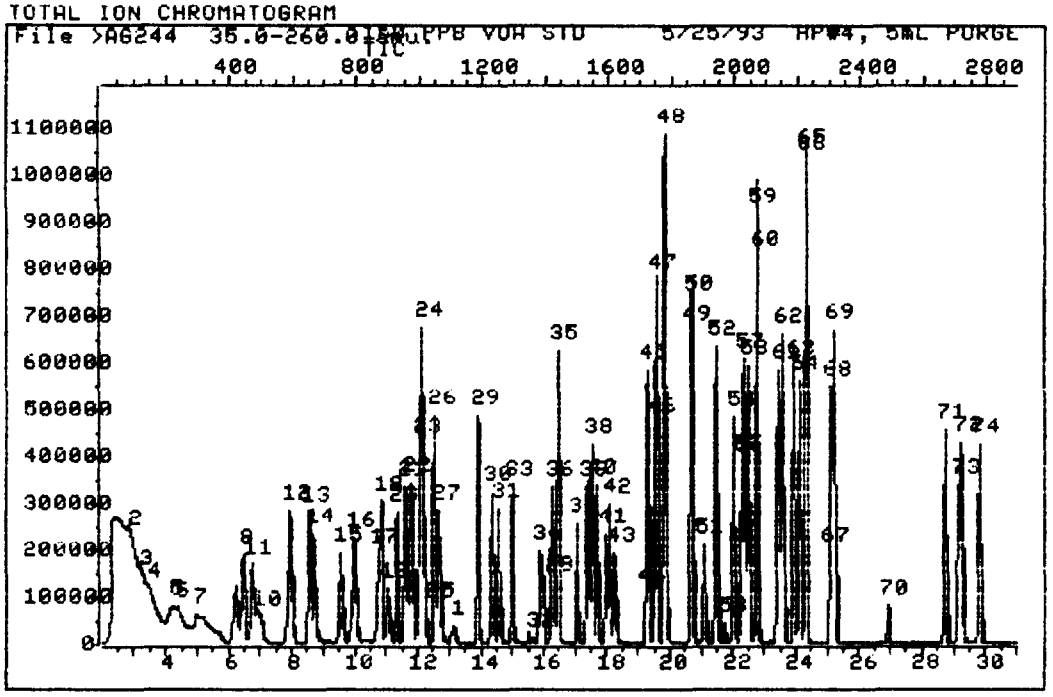
Operator ID: TONY Quant Rev: 7 Quant Time: 930525 16:53
Output File: ^AG244::D5 Injected at: 930525 16:20
Data File: >AG244::D4 Dilution Factor: 1.00000
Name: 150 PPB VOA STD Instrument ID: HP MS#4
Misc: 5/25/93 HP#4, 5mL PURGE

ID File: IDAG08::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930518 10:10 Last Qcal Time: 930519 11:16

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	2-Hexanone	17.96	43.0	471125	301.58	ug/L	90
42)	Dibromochloromethane	18.11	129.0	376177	152.02	ug/L	99
43)	1,2-Dibromoethane	18.26	107.0	326291	132.20	ug/L	99
44)	*CHLOROBENZENE-D5	19.23	117.0	56747	10.00	ug/L	98
45)	Chlorobenzene	19.29	112.0	737597	131.06	ug/L	93
46)	1,1,1,2-Tetrachloroethane	19.51	131.0	284419	139.60	ug/L	97
47)	Ethylbenzene	19.56	91.0	1254235	123.19	ug/L	99
48)	m &/or p-Xylene	19.83	106.0	840387	255.05	ug/L	84
49)	o-Xylene	20.64	106.0	384121	127.49	ug/L	86
50)	Styrene	20.70	104.0	684076	132.91	ug/L	91
51)	Bromoform	21.05	173.0	236741	153.33	ug/L	97
52)	Isopropylbenzene	21.46	105.0	1174875	128.46	ug/L	94
53)	p-BROMOFLUOROBENZENE	21.76	174.0	26030	10.55	ug/L	93
54)	Bromobenzene	22.02	156.0	324703	133.81	ug/L	98
55)	1,2,3-Trichloropropane	22.25	75.0	292692	118.37	ug/L	85
56)	1,1,2,2-Tetrachloroethane	22.24	83.0	226064	180.63	ug/L	96
57)	n-Propylbenzene	22.35	120.0	283194	127.77	ug/L	99
58)	2-Chlorotoluene	22.47	126.0	258518	130.49	ug/L	89
59)	4-Chlorotoluene	22.73	126.0	264437	126.77	ug/L	87
60)	1,3,5-Trimethylbenzene	22.77	105.0	1023460	127.24	ug/L	79
61)	tert-Butylbenzene	23.44	119.0	782575	128.43	ug/L	79
62)	1,2,4-Trimethylbenzene	23.56	105.0	1052686	130.93	ug/L	85
63)	sec-Butylbenzene	23.93	105.0	1205216	124.60	ug/L	92
64)	1,3-Dichlorobenzene	24.10	146.0	565346	131.54	ug/L	95
65)	1,4-Dichlorobenzene	24.31	146.0	571135	129.14	ug/L	95
66)	p-Isopropyltoluene	24.29	119.0	1003045	124.57	ug/L	87
67)	1,2-DICHLOROBENZENE-D4	25.06	152.0	26659	10.09	ug/L	80
68)	1,2-Dichlorobenzene	25.10	146.0	525233	131.74	ug/L	95
69)	n-Butylbenzene	25.19	91.0	1060915	125.57	ug/L	87
70)	1,2-Dibromo-3-chloropropane	26.89	157.0	56251	112.11	ug/L	99
71)	1,2,4-Trichlorobenzene	28.72	180.0	356026	125.76	ug/L	96
72)	Naphthalene	29.24	128.0	812948	113.19	ug/L	100
73)	Hexachlorobutadiene	29.16	225.0	203915	115.42	ug/L	96
74)	1,2,3-Trichlorobenzene	29.80	180.0	333067	123.02	ug/L	95

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG244::D4 Quant Output File: ^AG244::D5
Name: 150 PPB VOA STD Instrument ID: HP MS#4
Misc: 5/25/93 HP#4, 5mL PURGE

Id File: IDAG08::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930518 10:10 Last Qcal Time: 930519 11:16

Operator ID: TONY
Quant Time : 930525 16:53
Injected at: 930525 16:20

QUANT REPORT

Operator ID: TONY
Quant Rev: 7
Quant Time: 930525 18:51
Output File: ^AG247::D5
Injected at: 930525 18:18
Data File: >AG247::D4
Dilution Factor: 1.00000
Name: ICAL CHECK
Instrument ID: HP MS#4
Misc: 5/25/93 HP#4, 5mL PURGE

ID File: IDAG08::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54
Last Qcal Time: <none>

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.15	96.0	69770	10.00	ug/L	97
2)	Dichlorodifluoromethane	2.90	85.0	6329	1.97	ug/L	95
4)	Vinyl chloride	3.54	62.0	8966	3.17	ug/L	88
6)	Chloroethane	4.44	64.0	4151	3.04	ug/L	98
7)	Trichlorofluoromethane	5.01	101.0	7699	2.21	ug/L	95
9)	1,1-Dichloroethene	6.48	96.0	21403	11.27	ug/L	97
12)	Methylene chloride	7.95	84.0	35116	14.65	ug/L	98
13)	trans-1,2-Dichloroethene	8.56	96.0	22306	10.76	ug/L	99
15)	1,1-Dichloroethane	9.55	63.0	38610	10.10	ug/L	98
17)	2,2-Dichloropropane	10.74	77.0	31670	11.91	ug/L	92
18)	cis-1,2-Dichloroethene	10.83	96.0	23721	12.14	ug/L	97
20)	Bromochloromethane	11.31	128.0	12247	8.98	ug/L	90
21)	Chloroform	11.58	83.0	52853	10.79	ug/L	94
22)	1,1,1-Trichloroethane	11.75	97.0	44406	11.06	ug/L	95
23)	Carbon tetrachloride	12.06	117.0	33797	11.57	ug/L	93
24)	1,1-Dichloropropene	12.11	75.0	32007	10.38	ug/L	99
25)	BENZENE-D6	12.44	84.0	66796	10.07	ug/L	96
26)	Benzene	12.52	78.0	78635	10.71	ug/L	97
27)	1,2-Dichloroethane	12.66	62.0	44798	10.49	ug/L	98
28)	*TOLUENE-D8	16.29	98.0	66009	10.00	ug/L	98
29)	Trichloroethene	13.87	95.0	31668	11.36	ug/L	85
30)	1,2-Dichloropropane	14.32	63.0	22085	11.27	ug/L	92
31)	Dibromomethane	14.57	174.0	19089	11.17	ug/L	93
33)	Bromodichloromethane	14.97	83.0	37843	10.90	ug/L	97
34)	cis-1,3-Dichloropropene	15.85	75.0	35102	10.43	ug/L	94
35)	Toluene	16.42	92.0	45592	10.84	ug/L	90
37)	trans-1,3-Dichloropropene	17.02	75.0	36325	11.88	ug/L	98
38)	Tetrachloroethene	17.48	166.0	24291	11.43	ug/L	97
39)	1,1,2-Trichloroethane	17.36	132.0	1796	10.78	ug/L	99
40)	1,3-Dichloropropane	17.66	76.0	34693	11.04	ug/L	99
42)	Dibromochloromethane	18.10	129.0	26831	11.33	ug/L	98
43)	1,2-Dibromoethane	18.26	107.0	24607	11.41	ug/L	98
44)	*CHLOROBENZENE-D5	19.23	117.0	52924	10.00	ug/L	94
45)	Chlorobenzene	19.28	112.0	53274	10.76	ug/L	94
46)	1,1,1,2-Tetrachloroethane	19.50	131.0	21150	10.83	ug/L	95
47)	Ethylbenzene	19.55	91.0	95788	10.89	ug/L	93
48)	m &/or p-Xylene	19.81	106.0	62539	21.95	ug/L	76
49)	o-Xylene	20.63	106.0	29714	11.24	ug/L	91
50)	Styrene	20.68	104.0	53025	11.68	ug/L	89
51)	Bromoform	21.05	173.0	17091	11.31	ug/L	96

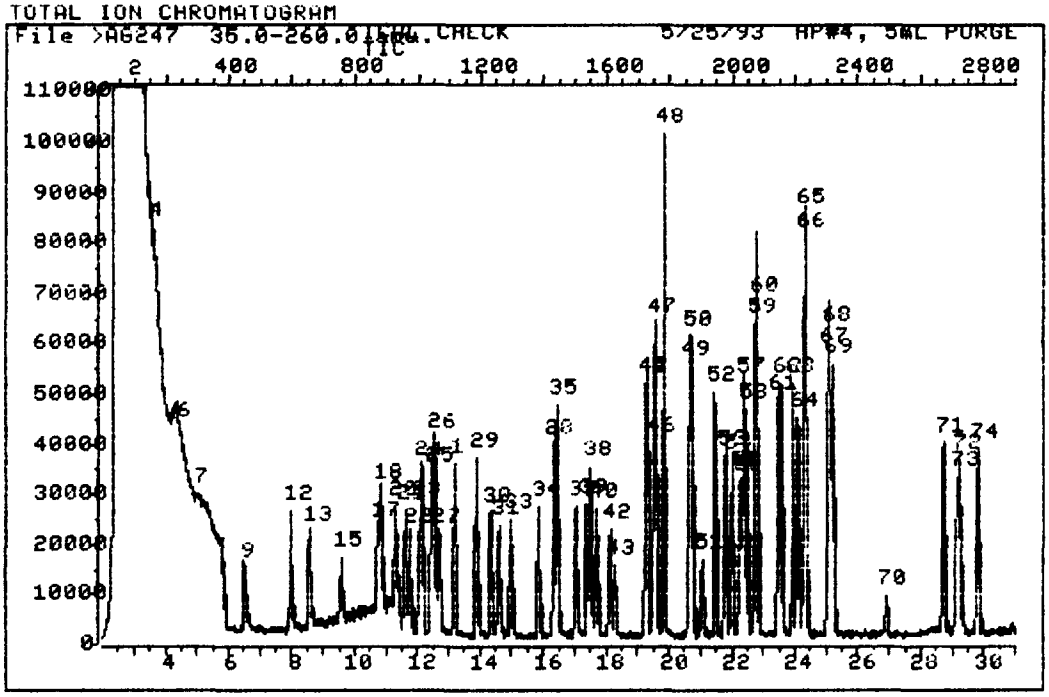
Operator ID: TONY Quant Rev: 7 Quant Time: 930525 18:51
Output File: ^AG247::D5 Injected at: 930525 18:18
Data File: >AG247::D4 Dilution Factor: 1.00000
Name: ICAL CHECK Instrument ID: HP MS#4
Misc: 5/25/93 HP#4, 5mL PURGE

ID File: IDAG08::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54 Last Qcal Time: <none>

	Compound	R.T.	Q ion	Area	Conc	Units	q
52)	Isopropylbenzene	21.45	105.0	84159	10.69	ug/L	91
53)	p-BROMOFLUOROBENZENE	21.75	174.0	24376	9.96	ug/L	98
54)	Bromobenzene	21.99	156.0	24267	10.94	ug/L	98
55)	1,2,3-Trichloropropane	22.23	75.0	22490	11.14	ug/L	86
56)	1,1,2,2-Tetrachloroethane	22.22	83.0	17884	10.63	ug/L	95
57)	n-Propylbenzene	22.34	120.0	21142	11.11	ug/L	98
58)	2-Chlorotoluene	22.45	126.0	19115	10.91	ug/L	89
59)	4-Chlorotoluene	22.70	126.0	20668	11.25	ug/L	90
60)	1,3,5-Trimethylbenzene	22.75	105.0	77258	11.18	ug/L	78
61)	tert-Butylbenzene	23.42	119.0	58534	11.21	ug/L	77
62)	1,2,4-Trimethylbenzene	23.54	105.0	78621	11.17	ug/L	81
63)	sec-Butylbenzene	23.91	105.0	94157	11.74	ug/L	91
64)	1,3-Dichlorobenzene	24.08	146.0	42192	11.01	ug/L	91
65)	1,4-Dichlorobenzene	24.29	146.0	43544	10.99	ug/L	96
66)	p-Isopropyltoluene	24.27	119.0	73693	11.03	ug/L	84
67)	1,2-DICHLOROBENZENE-D4	25.05	152.0	25005	9.86	ug/L	95
68)	1,2-Dichlorobenzene	25.09	146.0	40633	11.30	ug/L	90
69)	n-Butylbenzene	25.18	91.0	81227	11.67	ug/L	88
70)	1,2-Dibromo-3-chloropropane	26.89	157.0	5035	11.89	ug/L	97
71)	1,2,4-Trichlorobenzene	28.71	180.0	29657	11.86	ug/L	95
72)	Naphthalene	29.23	128.0	62038	10.87	ug/L	100
73)	Hexachlorobutadiene	29.15	225.0	19041	13.15	ug/L	96
74)	1,2,3-Trichlorobenzene	29.79	180.0	27835	11.82	ug/L	95

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG247::D4 Quant Output File: ^AG247::D5
Name: ICAL CHECK Instrument ID: HP MS#4
Misc: 5/25/93 HP#4, 5mL PURGE

Id File: IDAG08::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54 Last Qcal Time: <none>

Operator ID: TONY
Quant Time : 930525 18:51
Injected at: 930525 18:18

Quantitation Report File: IC050525

Data: IC050525.TI
05/25/93 12:54:00
Sample: CLP,1187,,IC050525,L,W,,V,IC05
Conds.: 45' (3 MIN) TO 220' @ 8'/MIN
Formula: Instrument: INCOS1 Weight: 0.000
Submitted by: Analyst: ZAR Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C040	CARBON DISULFIDE	
15	C043	ACRYLONITRILE	
16	C045	1,1-DICHLOROETHENE	
17	C050	1,1-DICHLOROETHANE	
18	C053	1,2-DICHLOROETHENE (TOTAL)	
19	C060	CHLOROFORM	
20	C065	1,2-DICHLOROETHANE	
21	C110	2-BUTANONE	
22	C115	1,1,1-TRICHLOROETHANE	
23	C120	CARBON TETRACHLORIDE	
24	C125	VINYL ACETATE	
25	C130	BROMODICHLOROMETHANE	
26	C140	1,2-DICHLOROPROPANE	
27	C143	CIS-1,3-DICHLOROPROPENE	
28	C150	TRICHLOROETHENE	
29	C155	DIBROMOCHLOROMETHANE	
30	C160	1,1,2-TRICHLOROETHANE	
31	C165	BENZENE	
32	C172	TRANS-1,3-DICHLOROPROPENE	
33	C175	2-CHLOROETHYLVINYL ETHER	
34	C180	BROMOFORM	
35	C205	4-METHYL-2-PENTANONE	
36	C210	2-HEXANONE	
37	C220	TETRACHLOROETHENE	
38	C225	1,1,2,2-TETRACHLOROETHANE	
39	C230	TOLUENE	
40	C235	CHLOROBENZENE	
41	C240	ETHYL BENZENE	
42	C245	STYRENE	
43	C260	M-XYLENE	
44	C270	O-&/OR P-XYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	282	9:24	1	1.000	A BB	149152.	10.000	UG/L	2.74
2	77	552	18:24	2	1.000	A BB	404887.	10.000	UG/L	2.74
3	55	672	22:24	3	1.000	A BB	244912.	10.000	UG/L	2.74
4	65	362	12:04	1	1.284	A BB	160993.	10.000	UG/L	2.74
5	84	506	16:52	2	0.917	A VB	521225.	10.000	UG/L	2.74
6	98	698	23:16	3	1.039	A BB	529980.	10.000	UG/L	2.74
7	50	51	1:42	1	0.181	A VB	108727.	10.000	UG/L	2.74
8	94	81	2:42	1	0.287	A VB	55534.	10.000	UG/L	2.74
9	62	91	3:02	1	0.323	A BB	139097.	10.000	UG/L	2.74
10	64	123	4:06	1	0.436	A BB	74425.	10.000	UG/L	2.74
11	84	187	6:14	1	0.663	A BB	86938.	5.000	UG/L	1.37
12	43	205	6:50	1	0.727	A BB	38966.	25.000	UG/L	6.85
13	56	209	6:58	1	0.741	A BB	952.	25.000	UG/L	6.85
14	76	232	7:44	1	0.823	A BB	253662.	5.000	UG/L	1.37
15	53	228	7:36	1	0.809	A BV	26586.	25.000	UG/L	6.85
16	96	268	8:56	1	0.950	A BB	115330.	5.000	UG/L	1.37
17	63	305	10:10	1	1.082	A BB	222151.	5.000	UG/L	1.37
18	96	327	10:54	1	1.160	A BB	120170.	5.000	UG/L	1.37
19	83	344	11:28	1	1.220	A BB	229156.	5.000	UG/L	1.37
20	62	366	12:12	1	1.298	A BB	96259.	5.000	UG/L	1.37
21	72	363	12:06	2	0.658	A BB	14574.	25.000	UG/L	6.85
22	97	403	13:26	2	0.730	A BB	188814.	5.000	UG/L	1.37
23	117	402	13:24	2	0.728	A BV	28280.	5.000	UG/L	1.37
24	43	420	14:00	2	0.761	A BB	30844.	10.000	UG/L	2.74
25	83	431	14:22	2	0.781	A BB	157759.	5.000	UG/L	1.37
26	63	471	15:42	2	0.853	A BB	126654.	5.000	UG/L	1.37
27	75	479	15:58	2	0.868	A BB	161749.	8.100	UG/L	2.22
28	130	495	16:30	2	0.897	A BB	194031.	5.000	UG/L	1.37
29	129	514	17:08	2	0.931	A BB	125099.	5.000	UG/L	1.37
30	97	517	17:14	2	0.937	A BB	71569.	5.000	UG/L	1.37
31	78	511	17:02	2	0.926	A BB	326410.	5.000	UG/L	1.37
32	75	517	17:14	2	0.937	A BB	92965.	1.900	UG/L	0.52
33	63	553	18:26	2	1.002	A BB	4743.	5.000	UG/L	1.37
34	173	594	19:48	2	1.076	A BB	84553.	5.000	UG/L	1.37
35	43	607	20:14	3	0.903	A BB	98292.	10.000	UG/L	2.74
36	43	654	21:48	3	0.973	A BB	57113.	10.000	UG/L	2.74
37	164	665	22:10	3	0.990	A BB	195435.	5.000	UG/L	1.37
38	83	663	22:06	3	0.987	A BB	59360.	5.000	UG/L	1.37
39	92	704	23:28	3	1.048	A BB	227768.	5.000	UG/L	1.37
40	112	738	24:36	3	1.098	A BB	312753.	5.000	UG/L	1.37
41	106	795	26:30	3	1.183	A BB	150772.	5.000	UG/L	1.37
42	104	911	30:22	3	1.356	A BB	232360.	5.000	UG/L	1.37
43	106	919	30:38	3	1.368	A BB	165109.	5.000	UG/L	1.37
44	106	947	31:34	3	1.409	A BB	152841.	5.000	UG/L	1.37

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:24	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	18:24	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	22:24	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:04	1.00	1.284	1.00	10.00	10.00	1.079	1.079	1.00
5	16:52	1.00	0.917	1.00	10.00	10.00	1.287	1.287	1.00
6	23:16	1.00	1.039	1.00	10.00	10.00	2.164	2.164	1.00
7	1:42	1.00	0.181	1.00	10.00	10.00	0.729	0.729	1.00
8	2:42	1.00	0.287	1.00	10.00	10.00	0.372	0.372	1.00
9	3:02	1.00	0.323	1.00	10.00	10.00	0.933	0.933	1.00
10	4:06	1.00	0.436	1.00	10.00	10.00	0.499	0.499	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	6:14	1.00	0.663	1.00	5.00	5.00	1.166	1.166	1.00
12	6:50	1.00	0.727	1.00	25.00	25.00	0.105	0.105	1.00
13	6:58	1.00	0.741	1.00	25.00	25.00	0.003	0.003	1.00
14	7:44	1.00	0.823	1.00	5.00	5.00	3.401	3.401	1.00
15	7:36	1.00	0.809	1.00	25.00	25.00	0.071	0.071	1.00
16	8:56	1.00	0.950	1.00	5.00	5.00	1.546	1.546	1.00
17	10:10	1.00	1.082	1.00	5.00	5.00	2.979	2.979	1.00
18	10:54	1.00	1.160	1.00	5.00	5.00	1.611	1.611	1.00
19	11:28	1.00	1.220	1.00	5.00	5.00	3.073	3.073	1.00
20	12:12	1.00	1.298	1.00	5.00	5.00	1.291	1.291	1.00
21	12:06	1.00	0.658	1.00	25.00	25.00	0.014	0.014	1.00
22	13:26	1.00	0.730	1.00	5.00	5.00	0.933	0.933	1.00
23	13:24	1.00	0.728	1.00	5.00	5.00	0.140	0.140	1.00
24	14:00	1.00	0.761	1.00	10.00	10.00	0.076	0.076	1.00
25	14:22	1.00	0.781	1.00	5.00	5.00	0.779	0.779	1.00
26	15:42	1.00	0.853	1.00	5.00	5.00	0.626	0.626	1.00
27	15:58	1.00	0.868	1.00	8.10	8.10	0.493	0.493	1.00
28	16:30	1.00	0.897	1.00	5.00	5.00	0.958	0.958	1.00
29	17:08	1.00	0.931	1.00	5.00	5.00	0.618	0.618	1.00
30	17:14	1.00	0.937	1.00	5.00	5.00	0.354	0.354	1.00
31	17:02	1.00	0.926	1.00	5.00	5.00	1.612	1.612	1.00
32	17:14	1.00	0.937	1.00	1.90	1.90	1.208	1.208	1.00
33	18:26	1.00	1.002	1.00	5.00	5.00	0.023	0.023	1.00
34	19:48	1.00	1.076	1.00	5.00	5.00	0.418	0.418	1.00
35	20:14	1.00	0.903	1.00	10.00	10.00	0.401	0.401	1.00
36	21:48	1.00	0.973	1.00	10.00	10.00	0.233	0.233	1.00
37	22:10	1.00	0.990	1.00	5.00	5.00	1.596	1.596	1.00
38	22:06	1.00	0.987	1.00	5.00	5.00	0.485	0.485	1.00
39	23:28	1.00	1.048	1.00	5.00	5.00	1.860	1.860	1.00
40	24:36	1.00	1.098	1.00	5.00	5.00	2.554	2.554	1.00
41	26:30	1.00	1.183	1.00	5.00	5.00	1.231	1.231	1.00
42	30:22	1.00	1.356	1.00	5.00	5.00	1.897	1.897	1.00
43	30:38	1.00	1.368	1.00	5.00	5.00	1.348	1.348	1.00
44	31:34	1.00	1.409	1.00	5.00	5.00	1.248	1.248	1.00

Quantitation Report File: IC100525

Data: IC100525.TI
05/25/93 13:36:00
Sample: CLP,1187,,IC100525,L,W,,V,IC10
Conds.: 45' (3 MIN) TO 220' @ 8'/MIN
Formula: Instrument: INCOS1 Weight: 0.000
Submitted by: Analyst: ZAR Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C040	CARBON DISULFIDE	
15	C043	ACRYLONITRILE	
16	C045	1,1-DICHLOROETHENE	
17	C050	1,1-DICHLOROETHANE	
18	C053	1,2-DICHLOROETHENE (TOTAL)	
19	C060	CHLOROFORM	
20	C065	1,2-DICHLOROETHANE	
21	C110	2-BUTANONE	
22	C115	1,1,1-TRICHLOROETHANE	
23	C120	CARBON TETRACHLORIDE	
24	C125	VINYL ACETATE	
25	C130	BROMODICHLOROMETHANE	
26	C140	1,2-DICHLOROPROPANE	
27	C143	CIS-1,3-DICHLOROPROPENE	
28	C150	TRICHLOROETHENE	
29	C155	DIBROMOCHLOROMETHANE	
30	C160	1,1,2-TRICHLOROETHANE	
31	C165	BENZENE	
32	C172	TRANS-1,3-DICHLOROPROPENE	
33	C175	2-CHLOROETHYLVINYL ETHER	
34	C180	BROMOFORM	
35	C205	4-METHYL-2-PENTANONE	
36	C210	2-HEXANONE	
37	C220	TETRACHLOROETHENE	
38	C225	1,1,2,2-TETRACHLOROETHANE	
39	C230	TOLUENE	
40	C235	CHLOROBENZENE	
41	C240	ETHYL BENZENE	
42	C245	STYRENE	
43	C260	M-XYLENE	
44	C270	O-&/OR P-XYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	283	9:26	1	1.000	A BB	96805.	10.000 UG/L	1.49
2	77	554	18:28	2	1.000	A BB	280927.	10.000 UG/L	1.49
3	55	674	22:28	3	1.000	A BB	168064.	10.000 UG/L	1.49
4	65	364	12:08	1	1.286	A BB	113905.	10.000 UG/L	1.49
5	84	508	16:56	2	0.917	A VB	378243.	10.000 UG/L	1.49
6	98	700	23:20	3	1.039	A BB	393382.	10.000 UG/L	1.49
7	50	52	1:44	1	0.184	A VB	166696.	20.000 UG/L	2.99
8	94	82	2:44	1	0.290	A VB	96548.	20.000 UG/L	2.99
9	62	92	3:04	1	0.325	A BB	222220.	20.000 UG/L	2.99
10	64	123	4:06	1	0.435	A BB	109778.	20.000 UG/L	2.99
11	84	188	6:16	1	0.664	A BB	58557.	10.000 UG/L	1.49
12	43	206	6:52	1	0.728	A BV	29482.	50.000 UG/L	7.46
13	56	212	7:04	1	0.749	A BV	447.	50.000 UG/L	7.46
14	76	234	7:48	1	0.827	A BB	181005.	10.000 UG/L	1.49
15	53	230	7:40	1	0.813	A BV	17239.	50.000 UG/L	7.46
16	96	269	8:58	1	0.951	A BB	84016.	10.000 UG/L	1.49
17	63	306	10:12	1	1.081	A BB	178048.	10.000 UG/L	1.49
18	96	329	10:58	1	1.163	A BB	100025.	10.000 UG/L	1.49
19	83	345	11:30	1	1.219	A BB	187405.	10.000 UG/L	1.49
20	62	367	12:14	1	1.297	A BB	75622.	10.000 UG/L	1.49
21	72	365	12:10	2	0.659	A BB	11576.	50.000 UG/L	7.46
22	97	404	13:28	2	0.729	A BB	160954.	10.000 UG/L	1.49
23	117	404	13:28	2	0.729	A BV	24626.	10.000 UG/L	1.49
24	43	422	14:04	2	0.762	A VB	22821.	20.000 UG/L	2.99
25	83	432	14:24	2	0.780	A BB	128497.	10.000 UG/L	1.49
26	63	472	15:44	2	0.852	A BB	104058.	10.000 UG/L	1.49
27	75	480	16:00	2	0.866	A BB	132181.	16.200 UG/L	2.42
28	130	497	16:34	2	0.897	A BB	167286.	10.000 UG/L	1.49
29	129	515	17:10	2	0.930	A BB	105868.	10.000 UG/L	1.49
30	97	519	17:18	2	0.937	A BB	57024.	10.000 UG/L	1.49
31	78	513	17:06	2	0.926	A BB	271108.	10.000 UG/L	1.49
32	75	519	17:18	2	0.937	A BB	77792.	3.800 UG/L	0.57
33	63	554	18:28	2	1.000	A BB	3427.	10.000 UG/L	1.49
34	173	596	19:52	2	1.076	A BB	72705.	10.000 UG/L	1.49
35	43	610	20:20	3	0.905	A BB	76391.	20.000 UG/L	2.99
36	43	657	21:54	3	0.975	A BB	51958.	20.000 UG/L	2.99
37	164	667	22:14	3	0.990	A BB	178711.	10.000 UG/L	1.49
38	83	665	22:10	3	0.987	A BB	45388.	10.000 UG/L	1.49
39	92	706	23:32	3	1.047	A BB	197894.	10.000 UG/L	1.49
40	112	740	24:40	3	1.098	A BB	265417.	10.000 UG/L	1.49
41	106	798	26:36	3	1.184	A BB	134615.	10.000 UG/L	1.49
42	104	915	30:30	3	1.358	A BB	206711.	10.000 UG/L	1.49
43	106	923	30:46	3	1.369	A BB	144328.	10.000 UG/L	1.49
44	106	952	31:44	3	1.412	A BB	130341.	10.000 UG/L	1.49

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:26	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	18:28	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	22:28	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:08	1.00	1.286	1.00	10.00	10.00	1.177	1.177	1.00
5	16:56	1.00	0.917	1.00	10.00	10.00	1.346	1.346	1.00
6	23:20	1.00	1.039	1.00	10.00	10.00	2.341	2.341	1.00
7	1:44	1.00	0.184	1.00	20.00	20.00	0.861	0.861	1.00
8	2:44	1.00	0.290	1.00	20.00	20.00	0.499	0.499	1.00
9	3:04	1.00	0.325	1.00	20.00	20.00	1.148	1.148	1.00
10	4:06	1.00	0.435	1.00	20.00	20.00	0.567	0.567	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	6:16	1.00	0.664	1.00	10.00	10.00	0.605	0.605	1.00
12	6:52	1.00	0.728	1.00	50.00	50.00	0.061	0.061	1.00
13	7:04	1.00	0.749	1.00	50.00	50.00	0.001	0.001	1.00
14	7:48	1.00	0.827	1.00	10.00	10.00	1.870	1.870	1.00
15	7:40	1.00	0.813	1.00	50.00	50.00	0.036	0.036	1.00
16	8:58	1.00	0.951	1.00	10.00	10.00	0.868	0.868	1.00
17	10:12	1.00	1.081	1.00	10.00	10.00	1.839	1.839	1.00
18	10:58	1.00	1.163	1.00	10.00	10.00	1.033	1.033	1.00
19	11:30	1.00	1.219	1.00	10.00	10.00	1.936	1.936	1.00
20	12:14	1.00	1.297	1.00	10.00	10.00	0.781	0.781	1.00
21	12:10	1.00	0.659	1.00	50.00	50.00	0.008	0.008	1.00
22	13:28	1.00	0.729	1.00	10.00	10.00	0.573	0.573	1.00
23	13:28	1.00	0.729	1.00	10.00	10.00	0.088	0.088	1.00
24	14:04	1.00	0.762	1.00	20.00	20.00	0.041	0.041	1.00
25	14:24	1.00	0.780	1.00	10.00	10.00	0.457	0.457	1.00
26	15:44	1.00	0.852	1.00	10.00	10.00	0.370	0.370	1.00
27	16:00	1.00	0.866	1.00	16.20	16.20	0.290	0.290	1.00
28	16:34	1.00	0.897	1.00	10.00	10.00	0.595	0.595	1.00
29	17:10	1.00	0.930	1.00	10.00	10.00	0.377	0.377	1.00
30	17:18	1.00	0.937	1.00	10.00	10.00	0.203	0.203	1.00
31	17:06	1.00	0.926	1.00	10.00	10.00	0.965	0.965	1.00
32	17:18	1.00	0.937	1.00	3.80	3.80	0.729	0.729	1.00
33	18:28	1.00	1.000	1.00	10.00	10.00	0.012	0.012	1.00
34	19:52	1.00	1.076	1.00	10.00	10.00	0.259	0.259	1.00
35	20:20	1.00	0.905	1.00	20.00	20.00	0.227	0.227	1.00
36	21:54	1.00	0.975	1.00	20.00	20.00	0.155	0.155	1.00
37	22:14	1.00	0.990	1.00	10.00	10.00	1.063	1.063	1.00
38	22:10	1.00	0.987	1.00	10.00	10.00	0.270	0.270	1.00
39	23:32	1.00	1.047	1.00	10.00	10.00	1.177	1.177	1.00
40	24:40	1.00	1.098	1.00	10.00	10.00	1.579	1.579	1.00
41	26:36	1.00	1.184	1.00	10.00	10.00	0.801	0.801	1.00
42	30:30	1.00	1.358	1.00	10.00	10.00	1.230	1.230	1.00
43	30:46	1.00	1.369	1.00	10.00	10.00	0.859	0.859	1.00
44	31:44	1.00	1.412	1.00	10.00	10.00	0.776	0.776	1.00

Quantitation Report File: IC200525

Data: IC200525.TI
05/25/93 14:29:00
Sample: CLP,1187,,IC200525,L,W,,V,IC20
Conds.: 45' (3 MIN) TO 220' @ 8'/MIN
Formula: Instrument: INCOS1 Weight: 0.000
Submitted by: Analyst: ZAR Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C040	CARBON DISULFIDE	
15	C043	ACRYLONITRILE	
16	C045	1,1-DICHLOROETHENE	
17	C050	1,1-DICHLOROETHANE	
18	C053	1,2-DICHLOROETHENE (TOTAL)	
19	C060	CHLOROFORM	
20	C065	1,2-DICHLOROETHANE	
21	C110	2-BUTANONE	
22	C115	1,1,1-TRICHLOROETHANE	
23	C120	CARBON TETRACHLORIDE	
24	C125	VINYL ACETATE	
25	C130	BROMODICHLOROMETHANE	
26	C140	1,2-DICHLOROPROPANE	
27	C143	CIS-1,3-DICHLOROPROPENE	
28	C150	TRICHLOROETHENE	
29	C155	DIBROMOCHLOROMETHANE	
30	C160	1,1,2-TRICHLOROETHANE	
31	C165	BENZENE	
32	C172	TRANS-1,3-DICHLOROPROPENE	
33	C175	2-CHLOROETHYLVINYL ETHER	
34	C180	BROMOFORM	
35	C205	4-METHYL-2-PENTANONE	
36	C210	2-HEXANONE	
37	C220	TETRACHLOROETHENE	
38	C225	1,1,2,2-TETRACHLOROETHANE	
39	C230	TOLUENE	
40	C235	CHLOROBENZENE	
41	C240	ETHYL BENZENE	
42	C245	STYRENE	
43	C260	M-XYLENE	
44	C270	O-&/OR P-XYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	284	9:28	1	1.000	A BB	118798.	10.000	UG/L	0.78
2	77	555	18:30	2	1.000	A BB	350525.	10.000	UG/L	0.78
3	55	675	22:30	3	1.000	A BB	213920.	10.000	UG/L	0.78
4	65	365	12:10	1	1.285	A BB	141272.	10.000	UG/L	0.78
5	84	509	16:58	2	0.917	A VB	450032.	10.000	UG/L	0.78
6	98	701	23:22	3	1.039	A BB	458027.	10.000	UG/L	0.78
7	50	52	1:44	1	0.183	A VB	286504.	40.000	UG/L	3.12
8	94	82	2:44	1	0.289	A VB	179504.	40.000	UG/L	3.13
9	62	93	3:06	1	0.327	A BB	352592.	40.000	UG/L	3.12
10	64	125	4:10	1	0.440	A BB	172959.	40.000	UG/L	3.13
11	84	189	6:18	1	0.665	A BB	242582.	20.000	UG/L	1.56
12	43	206	6:52	1	0.725	A BB	106934.	100.000	UG/L	7.81
13	56	211	7:02	1	0.743	A BV	2411.	100.000	UG/L	7.81
14	76	234	7:48	1	0.824	A BB	749892.	20.000	UG/L	1.56
15	53	229	7:38	1	0.806	A BV	90297.	100.000	UG/L	7.81
16	96	270	9:00	1	0.951	A BB	379128.	20.000	UG/L	1.56
17	63	307	10:14	1	1.081	A BB	764445.	20.000	UG/L	1.56
18	96	329	10:58	1	1.158	A BB	412445.	20.000	UG/L	1.56
19	83	346	11:32	1	1.218	A BB	792944.	20.000	UG/L	1.56
20	62	368	12:16	1	1.296	A BB	342402.	20.000	UG/L	1.56
21	72	365	12:10	2	0.658	A BB	51396.	100.000	UG/L	7.81
22	97	405	13:30	2	0.730	A BB	665511.	20.000	UG/L	1.56
23	117	405	13:30	2	0.730	A BV	103646.	20.000	UG/L	1.56
24	43	422	14:04	2	0.760	A BB	79787.	40.000	UG/L	3.12
25	83	433	14:26	2	0.780	A BB	603078.	20.000	UG/L	1.56
26	63	473	15:46	2	0.852	A BB	470110.	20.000	UG/L	1.56
27	75	481	16:02	2	0.867	A BB	628949.	32.400	UG/L	2.53
28	130	498	16:36	2	0.897	A BB	714368.	20.000	UG/L	1.56
29	129	516	17:12	2	0.930	A BB	509334.	20.000	UG/L	1.56
30	97	519	17:18	2	0.935	A BB	282195.	20.000	UG/L	1.56
31	78	513	17:06	2	0.924	A BB	1220360.	20.000	UG/L	1.56
32	75	519	17:18	2	0.935	A BB	383876.	7.600	UG/L	0.59
33	63	555	18:30	2	1.000	A BB	4531.	20.000	UG/L	1.56
34	173	596	19:52	2	1.074	A BB	363696.	20.000	UG/L	1.56
35	43	610	20:20	3	0.904	A BB	360742.	40.000	UG/L	3.13
36	43	657	21:54	3	0.973	A BB	220158.	40.000	UG/L	3.13
37	164	667	22:14	3	0.988	A BB	720354.	20.000	UG/L	1.56
38	83	666	22:12	3	0.987	A BB	235149.	20.000	UG/L	1.56
39	92	707	23:34	3	1.047	A BB	865615.	20.000	UG/L	1.56
40	112	741	24:42	3	1.098	A BB	1184750.	20.000	UG/L	1.56
41	106	798	26:36	3	1.182	A BB	583892.	20.000	UG/L	1.56
42	104	916	30:32	3	1.357	A BB	939984.	20.000	UG/L	1.56
43	106	923	30:46	3	1.367	A BB	624400.	20.000	UG/L	1.56
44	106	953	31:46	3	1.412	A BB	582960.	20.000	UG/L	1.56

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:28	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	18:30	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	22:30	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:10	1.00	1.285	1.00	10.00	10.00	1.189	1.189	1.00
5	16:58	1.00	0.917	1.00	10.00	10.00	1.284	1.284	1.00
6	23:22	1.00	1.039	1.00	10.00	10.00	2.141	2.141	1.00
7	1:44	1.00	0.183	1.00	40.00	40.00	0.603	0.603	1.00
8	2:44	1.00	0.289	1.00	40.00	40.00	0.378	0.378	1.00
9	3:06	1.00	0.327	1.00	40.00	40.00	0.742	0.742	1.00
10	4:10	1.00	0.440	1.00	40.00	40.00	0.364	0.364	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	6:18	1.00	0.665	1.00	20.00	20.00	1.021	1.021	1.00
12	6:52	1.00	0.725	1.00	100.00	100.00	0.090	0.090	1.00
13	7:02	1.00	0.743	1.00	100.00	100.00	0.002	0.002	1.00
14	7:48	1.00	0.824	1.00	20.00	20.00	3.156	3.156	1.00
15	7:38	1.00	0.806	1.00	100.00	100.00	0.076	0.076	1.00
16	9:00	1.00	0.951	1.00	20.00	20.00	1.596	1.596	1.00
17	10:14	1.00	1.081	1.00	20.00	20.00	3.217	3.217	1.00
18	10:58	1.00	1.158	1.00	20.00	20.00	1.736	1.736	1.00
19	11:32	1.00	1.218	1.00	20.00	20.00	3.337	3.337	1.00
20	12:16	1.00	1.296	1.00	20.00	20.00	1.441	1.441	1.00
21	12:10	1.00	0.658	1.00	100.00	100.00	0.015	0.015	1.00
22	13:30	1.00	0.730	1.00	20.00	20.00	0.949	0.949	1.00
23	13:30	1.00	0.730	1.00	20.00	20.00	0.148	0.148	1.00
24	14:04	1.00	0.760	1.00	40.00	40.00	0.057	0.057	1.00
25	14:26	1.00	0.780	1.00	20.00	20.00	0.860	0.860	1.00
26	15:46	1.00	0.852	1.00	20.00	20.00	0.671	0.671	1.00
27	16:02	1.00	0.867	1.00	32.40	32.40	0.554	0.554	1.00
28	16:36	1.00	0.897	1.00	20.00	20.00	1.019	1.019	1.00
29	17:12	1.00	0.930	1.00	20.00	20.00	0.727	0.727	1.00
30	17:18	1.00	0.935	1.00	20.00	20.00	0.403	0.403	1.00
31	17:06	1.00	0.924	1.00	20.00	20.00	1.741	1.741	1.00
32	17:18	1.00	0.935	1.00	7.60	7.60	1.441	1.441	1.00
33	18:30	1.00	1.000	1.00	20.00	20.00	0.006	0.006	1.00
34	19:52	1.00	1.074	1.00	20.00	20.00	0.519	0.519	1.00
35	20:20	1.00	0.904	1.00	40.00	40.00	0.422	0.422	1.00
36	21:54	1.00	0.973	1.00	40.00	40.00	0.257	0.257	1.00
37	22:14	1.00	0.988	1.00	20.00	20.00	1.684	1.684	1.00
38	22:12	1.00	0.987	1.00	20.00	20.00	0.550	0.550	1.00
39	23:34	1.00	1.047	1.00	20.00	20.00	2.023	2.023	1.00
40	24:42	1.00	1.098	1.00	20.00	20.00	2.769	2.769	1.00
41	26:36	1.00	1.182	1.00	20.00	20.00	1.365	1.365	1.00
42	30:32	1.00	1.357	1.00	20.00	20.00	2.197	2.197	1.00
43	30:46	1.00	1.367	1.00	20.00	20.00	1.459	1.459	1.00
44	31:46	1.00	1.412	1.00	20.00	20.00	1.363	1.363	1.00

Quantitation Report File: IC250525B

Data: IC250525B.TI
05/25/93 17:06:00
Sample: CLP,1187,,IC250525,L,W,,V,IC25
Conds.: 45' (3 MIN) TO 220' @ 8'/MIN
Formula: Instrument: INCOS1 Weight: 0.000
Submitted by: Analyst: ZAR Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C040	CARBON DISULFIDE	
15	C043	ACRYLONITRILE	
16	C045	1,1-DICHLOROETHENE	
17	C050	1,1-DICHLOROETHANE	
18	C053	1,2-DICHLOROETHENE (TOTAL)	
19	C060	CHLOROFORM	
20	C065	1,2-DICHLOROETHANE	
21	C110	2-BUTANONE	
22	C115	1,1,1-TRICHLOROETHANE	
23	C120	CARBON TETRACHLORIDE	
24	C125	VINYL ACETATE	
25	C130	BROMODICHLOROMETHANE	
26	C140	1,2-DICHLOROPROPANE	
27	C143	CIS-1,3-DICHLOROPROPENE	
28	C150	TRICHLOROETHENE	
29	C155	DIBROMOCHLOROMETHANE	
30	C160	1,1,2-TRICHLOROETHANE	
31	C165	BENZENE	
32	C172	TRANS-1,3-DICHLOROPROPENE	
33	C175	2-CHLOROETHYLVINYL ETHER	
34	C180	BROMOFORM	
35	C205	4-METHYL-2-PENTANONE	
36	C210	2-HEXANONE	
37	C220	TETRACHLOROETHENE	
38	C225	1,1,2,2-TETRACHLOROETHANE	
39	C230	TOLUENE	
40	C235	CHLOROBENZENE	
41	C240	ETHYL BENZENE	
42	C245	STYRENE	
43	C260	M-XYLENE	
44	C270	O-&/OR P-XYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	285	9:30	1	1.000	A BB	115469.	10.000	UG/L	0.63
2	77	556	18:32	2	1.000	A BB	366277.	10.000	UG/L	0.63
3	55	676	22:32	3	1.000	A BB	234276.	10.000	UG/L	0.63
4	65	366	12:12	1	1.284	A BB	156690.	10.000	UG/L	0.63
5	84	510	17:00	2	0.917	A VB	452531.	10.000	UG/L	0.63
6	98	702	23:24	3	1.038	A BB	481125.	10.000	UG/L	0.63
7	50	52	1:44	1	0.182	A VB	377256.	50.000	UG/L	3.15
8	94	84	2:48	1	0.295	A VB	253232.	50.000	UG/L	3.15
9	62	93	3:06	1	0.326	A BB	474719.	50.000	UG/L	3.15
10	64	126	4:12	1	0.442	A BB	232859.	50.000	UG/L	3.15
11	84	190	6:20	1	0.667	A BB	269332.	25.000	UG/L	1.58
12	43	207	6:54	1	0.726	A BB	129767.	125.000	UG/L	7.89
13	56	211	7:02	1	0.740	A BV	3038.	125.000	UG/L	7.89
14	76	235	7:50	1	0.825	A BB	867376.	25.000	UG/L	1.58
15	53	230	7:40	1	0.807	A BB	96446.	125.000	UG/L	7.89
16	96	271	9:02	1	0.951	A BB	449066.	25.000	UG/L	1.58
17	63	308	10:16	1	1.081	A BB	905140.	25.000	UG/L	1.58
18	96	330	11:00	1	1.158	A BB	484204.	25.000	UG/L	1.58
19	83	347	11:34	1	1.218	A BB	936394.	25.000	UG/L	1.58
20	62	369	12:18	1	1.295	A BB	427304.	25.000	UG/L	1.58
21	72	366	12:12	2	0.658	A BB	63336.	125.000	UG/L	7.89
22	97	406	13:32	2	0.730	A BB	808873.	25.000	UG/L	1.58
23	117	406	13:32	2	0.730	A BV	119710.	25.000	UG/L	1.58
24	43	423	14:06	2	0.761	A BB	113786.	50.000	UG/L	3.15
25	83	434	14:28	2	0.781	A BB	758203.	25.000	UG/L	1.58
26	63	474	15:48	2	0.853	A BB	541173.	25.000	UG/L	1.58
27	75	482	16:04	2	0.867	A BB	745128.	40.500	UG/L	2.56
28	130	499	16:38	2	0.897	A BB	804191.	25.000	UG/L	1.58
29	129	517	17:14	2	0.930	A BB	637166.	25.000	UG/L	1.58
30	97	520	17:20	2	0.935	A BB	334589.	25.000	UG/L	1.58
31	78	514	17:08	2	0.924	A BB	1416530.	25.000	UG/L	1.58
32	75	520	17:20	2	0.935	A BB	467418.	9.500	UG/L	0.60
33	63	556	18:32	2	1.000	A BB	4111.	25.000	UG/L	1.58
34	173	597	19:54	2	1.074	A BB	440424.	25.000	UG/L	1.58
35	43	611	20:22	3	0.904	A BB	466209.	50.000	UG/L	3.15
36	43	658	21:56	3	0.973	A BB	287258.	50.000	UG/L	3.15
37	164	668	22:16	3	0.988	A BB	839920.	25.000	UG/L	1.58
38	83	667	22:14	3	0.987	A BB	308547.	25.000	UG/L	1.58
39	92	708	23:36	3	1.047	A BB	1040660.	25.000	UG/L	1.58
40	112	742	24:44	3	1.098	A BB	1451480.	25.000	UG/L	1.58
41	106	800	26:40	3	1.183	A BB	731807.	25.000	UG/L	1.58
42	104	918	30:36	3	1.358	A BB	1202250.	25.000	UG/L	1.58
43	106	926	30:52	3	1.370	A BB	828583.	25.000	UG/L	1.58
44	106	955	31:50	3	1.413	A BB	781980.	25.000	UG/L	1.58

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:30	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	18:32	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	22:32	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:12	1.00	1.284	1.00	10.00	10.00	1.357	1.357	1.00
5	17:00	1.00	0.917	1.00	10.00	10.00	1.235	1.235	1.00
6	23:24	1.00	1.038	1.00	10.00	10.00	2.054	2.054	1.00
7	1:44	1.00	0.182	1.00	50.00	50.00	0.653	0.653	1.00
8	2:48	1.00	0.295	1.00	50.00	50.00	0.439	0.439	1.00
9	3:06	1.00	0.326	1.00	50.00	50.00	0.822	0.822	1.00
10	4:12	1.00	0.442	1.00	50.00	50.00	0.403	0.403	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	6:20	1.00	0.667	1.00	25.00	25.00	0.933	0.933	1.00
12	6:54	1.00	0.726	1.00	125.00	125.00	0.090	0.090	1.00
13	7:02	1.00	0.740	1.00	125.00	125.00	0.002	0.002	1.00
14	7:50	1.00	0.825	1.00	25.00	25.00	3.005	3.005	1.00
15	7:40	1.00	0.807	1.00	125.00	125.00	0.067	0.067	1.00
16	9:02	1.00	0.951	1.00	25.00	25.00	1.556	1.556	1.00
17	10:16	1.00	1.081	1.00	25.00	25.00	3.136	3.136	1.00
18	11:00	1.00	1.158	1.00	25.00	25.00	1.677	1.677	1.00
19	11:34	1.00	1.218	1.00	25.00	25.00	3.244	3.244	1.00
20	12:18	1.00	1.295	1.00	25.00	25.00	1.480	1.480	1.00
21	12:12	1.00	0.658	1.00	125.00	125.00	0.014	0.014	1.00
22	13:32	1.00	0.730	1.00	25.00	25.00	0.883	0.883	1.00
23	13:32	1.00	0.730	1.00	25.00	25.00	0.131	0.131	1.00
24	14:06	1.00	0.761	1.00	50.00	50.00	0.062	0.062	1.00
25	14:28	1.00	0.781	1.00	25.00	25.00	0.828	0.828	1.00
26	15:48	1.00	0.853	1.00	25.00	25.00	0.591	0.591	1.00
27	16:04	1.00	0.867	1.00	40.50	40.50	0.502	0.502	1.00
28	16:38	1.00	0.897	1.00	25.00	25.00	0.878	0.878	1.00
29	17:14	1.00	0.930	1.00	25.00	25.00	0.696	0.696	1.00
30	17:20	1.00	0.935	1.00	25.00	25.00	0.365	0.365	1.00
31	17:08	1.00	0.924	1.00	25.00	25.00	1.547	1.547	1.00
32	17:20	1.00	0.935	1.00	9.50	9.50	1.343	1.343	1.00
33	18:32	1.00	1.000	1.00	25.00	25.00	0.004	0.004	1.00
34	19:54	1.00	1.074	1.00	25.00	25.00	0.481	0.481	1.00
35	20:22	1.00	0.904	1.00	50.00	50.00	0.398	0.398	1.00
36	21:56	1.00	0.973	1.00	50.00	50.00	0.245	0.245	1.00
37	22:16	1.00	0.988	1.00	25.00	25.00	1.434	1.434	1.00
38	22:14	1.00	0.987	1.00	25.00	25.00	0.527	0.527	1.00
39	23:36	1.00	1.047	1.00	25.00	25.00	1.777	1.777	1.00
40	24:44	1.00	1.098	1.00	25.00	25.00	2.478	2.478	1.00
41	26:40	1.00	1.183	1.00	25.00	25.00	1.249	1.249	1.00
42	30:36	1.00	1.358	1.00	25.00	25.00	2.053	2.053	1.00
43	30:52	1.00	1.370	1.00	25.00	25.00	1.415	1.415	1.00
44	31:50	1.00	1.413	1.00	25.00	25.00	1.335	1.335	1.00

Quantitation Report File: IC100525B

Data: IC100525B.TI
05/25/93 17:54:00
Sample: CLP,1187,,IC100525,L,W,,V,IC10
Conds.: 45' (3 MIN) TO 220' @ 8'/MIN
Formula: Instrument: INCOS1 Weight: 0.000
Submitted by: Analyst: ZAR Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C040	CARBON DISULFIDE	
15	C043	ACRYLONITRILE	
16	C045	1,1-DICHLOROETHENE	
17	C050	1,1-DICHLOROETHANE	
18	C053	1,2-DICHLOROETHENE (TOTAL)	
19	C060	CHLOROFORM	
20	C065	1,2-DICHLOROETHANE	
21	C110	2-BUTANONE	
22	C115	1,1,1-TRICHLOROETHANE	
23	C120	CARBON TETRACHLORIDE	
24	C125	VINYL ACETATE	
25	C130	BROMODICHLOROMETHANE	
26	C140	1,2-DICHLOROPROPANE	
27	C143	CIS-1,3-DICHLOROPROPENE	
28	C150	TRICHLOROETHENE	
29	C155	DIBROMOCHLOROMETHANE	
30	C160	1,1,2-TRICHLOROETHANE	
31	C165	BENZENE	
32	C172	TRANS-1,3-DICHLOROPROPENE	
33	C175	2-CHLOROETHYLVINYL ETHER	
34	C180	BROMOFORM	
35	C205	4-METHYL-2-PENTANONE	
36	C210	2-HEXANONE	
37	C220	TETRACHLOROETHENE	
38	C225	1,1,2,2-TETRACHLOROETHANE	
39	C230	TOLUENE	
40	C235	CHLOROBENZENE	
41	C240	ETHYL BENZENE	
42	C245	STYRENE	
43	C260	M-XYLENE	
44	C270	O-&/OR P-XYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	286	9:32	1	1.000	A BB	125879.	10.000 UG/L	1.49
2	77	557	18:34	2	1.000	A BB	377408.	10.000 UG/L	1.49
3	55	676	22:32	3	1.000	A BB	250205.	10.000 UG/L	1.49
4	65	366	12:12	1	1.280	A BB	158474.	10.000 UG/L	1.49
5	84	510	17:00	2	0.916	A VB	473269.	10.000 UG/L	1.49
6	98	703	23:26	3	1.040	A BB	506188.	10.000 UG/L	1.49
7	50	54	1:48	1	0.189	A VB	215522.	20.000 UG/L	2.99
8	94	84	2:48	1	0.294	A VB	125651.	20.000 UG/L	2.99
9	62	94	3:08	1	0.329	A BB	258886.	20.000 UG/L	2.99
10	64	126	4:12	1	0.441	A BB	123415.	20.000 UG/L	2.99
11	84	191	6:22	1	0.668	A BB	107866.	10.000 UG/L	1.49
12	43	208	6:56	1	0.727	A BB	54425.	50.000 UG/L	7.46
13	56	212	7:04	1	0.741	M XX	2092.	50.000 UG/L	7.46
14	76	236	7:52	1	0.825	A BB	324468.	10.000 UG/L	1.49
15	53	232	7:44	1	0.811	A BV	41929.	50.000 UG/L	7.46
16	96	271	9:02	1	0.948	A BB	172455.	10.000 UG/L	1.49
17	63	309	10:18	1	1.080	A BB	345323.	10.000 UG/L	1.49
18	96	331	11:02	1	1.157	A BB	179929.	10.000 UG/L	1.49
19	83	347	11:34	1	1.213	A BB	367212.	10.000 UG/L	1.49
20	62	369	12:18	1	1.290	A BB	166676.	10.000 UG/L	1.49
21	72	367	12:14	2	0.659	A BB	26498.	50.000 UG/L	7.46
22	97	407	13:34	2	0.731	A BB	308711.	10.000 UG/L	1.49
23	117	407	13:34	2	0.731	A BV	44677.	10.000 UG/L	1.49
24	43	424	14:08	2	0.761	A BV	41415.	20.000 UG/L	2.99
25	83	435	14:30	2	0.781	A BB	278585.	10.000 UG/L	1.49
26	63	475	15:50	2	0.853	A BB	209833.	10.000 UG/L	1.49
27	75	482	16:04	2	0.865	A BB	281311.	16.200 UG/L	2.42
28	130	499	16:38	2	0.896	A BB	310991.	10.000 UG/L	1.49
29	129	518	17:16	2	0.930	A BB	235363.	10.000 UG/L	1.49
30	97	521	17:22	2	0.935	A BB	130655.	10.000 UG/L	1.49
31	78	515	17:10	2	0.925	A BB	541257.	10.000 UG/L	1.49
32	75	521	17:22	2	0.935	A BB	174788.	3.800 UG/L	0.57
33	63	557	18:34	2	1.000	A BB	4496.	10.000 UG/L	1.49
34	173	598	19:56	2	1.074	A BB	163522.	10.000 UG/L	1.49
35	43	612	20:24	3	0.905	A BB	179310.	20.000 UG/L	2.99
36	43	659	21:58	3	0.975	A BB	109706.	20.000 UG/L	2.99
37	164	669	22:18	3	0.990	A BB	323206.	10.000 UG/L	1.49
38	83	668	22:16	3	0.988	A BB	115298.	10.000 UG/L	1.49
39	92	709	23:38	3	1.049	A BB	397031.	10.000 UG/L	1.49
40	112	743	24:46	3	1.099	A BB	539012.	10.000 UG/L	1.49
41	106	801	26:42	3	1.185	A BB	275410.	10.000 UG/L	1.49
42	104	920	30:40	3	1.361	A BB	423680.	10.000 UG/L	1.49
43	106	928	30:56	3	1.373	A BB	292868.	10.000 UG/L	1.49
44	106	957	31:54	3	1.416	A BB	266716.	10.000 UG/L	1.49

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:32	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	18:34	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	22:32	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:12	1.00	1.280	1.00	10.00	10.00	1.259	1.259	1.00
5	17:00	1.00	0.916	1.00	10.00	10.00	1.254	1.254	1.00
6	23:26	1.00	1.040	1.00	10.00	10.00	2.023	2.023	1.00
7	1:48	1.00	0.189	1.00	20.00	20.00	0.856	0.856	1.00
8	2:48	1.00	0.294	1.00	20.00	20.00	0.499	0.499	1.00
9	3:08	1.00	0.329	1.00	20.00	20.00	1.028	1.028	1.00
10	4:12	1.00	0.441	1.00	20.00	20.00	0.490	0.490	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	6:22	1.00	0.668	1.00	10.00	10.00	0.857	0.857	1.00
12	6:56	1.00	0.727	1.00	50.00	50.00	0.086	0.086	1.00
13	7:04	1.00	0.741	1.00	50.00	50.00	0.003	0.003	1.00
14	7:52	1.00	0.825	1.00	10.00	10.00	2.578	2.578	1.00
15	7:44	1.00	0.811	1.00	50.00	50.00	0.067	0.067	1.00
16	9:02	1.00	0.948	1.00	10.00	10.00	1.370	1.370	1.00
17	10:18	1.00	1.080	1.00	10.00	10.00	2.743	2.743	1.00
18	11:02	1.00	1.157	1.00	10.00	10.00	1.429	1.429	1.00
19	11:34	1.00	1.213	1.00	10.00	10.00	2.917	2.917	1.00
20	12:18	1.00	1.290	1.00	10.00	10.00	1.324	1.324	1.00
21	12:14	1.00	0.659	1.00	50.00	50.00	0.014	0.014	1.00
22	13:34	1.00	0.731	1.00	10.00	10.00	0.818	0.818	1.00
23	13:34	1.00	0.731	1.00	10.00	10.00	0.118	0.118	1.00
24	14:08	1.00	0.761	1.00	20.00	20.00	0.055	0.055	1.00
25	14:30	1.00	0.781	1.00	10.00	10.00	0.738	0.738	1.00
26	15:50	1.00	0.853	1.00	10.00	10.00	0.556	0.556	1.00
27	16:04	1.00	0.865	1.00	16.20	16.20	0.460	0.460	1.00
28	16:38	1.00	0.896	1.00	10.00	10.00	0.824	0.824	1.00
29	17:16	1.00	0.930	1.00	10.00	10.00	0.624	0.624	1.00
30	17:22	1.00	0.935	1.00	10.00	10.00	0.346	0.346	1.00
31	17:10	1.00	0.925	1.00	10.00	10.00	1.434	1.434	1.00
32	17:22	1.00	0.935	1.00	3.80	3.80	1.219	1.219	1.00
33	18:34	1.00	1.000	1.00	10.00	10.00	0.012	0.012	1.00
34	19:56	1.00	1.074	1.00	10.00	10.00	0.433	0.433	1.00
35	20:24	1.00	0.905	1.00	20.00	20.00	0.358	0.358	1.00
36	21:58	1.00	0.975	1.00	20.00	20.00	0.219	0.219	1.00
37	22:18	1.00	0.990	1.00	10.00	10.00	1.292	1.292	1.00
38	22:16	1.00	0.988	1.00	10.00	10.00	0.461	0.461	1.00
39	23:38	1.00	1.049	1.00	10.00	10.00	1.587	1.587	1.00
40	24:46	1.00	1.099	1.00	10.00	10.00	2.154	2.154	1.00
41	26:42	1.00	1.185	1.00	10.00	10.00	1.101	1.101	1.00
42	30:40	1.00	1.361	1.00	10.00	10.00	1.693	1.693	1.00
43	30:56	1.00	1.373	1.00	10.00	10.00	1.171	1.171	1.00
44	31:54	1.00	1.416	1.00	10.00	10.00	1.066	1.066	1.00

Quantitation Report File: CC0525

Data: CC0525.TI
05/25/93 10:49:00
Sample: CLP,1187,,CC0525,L,W,,V,CC
Conds.: 45' (3 MIN) TO 220' @ 8'/MIN
Formula: Instrument: INCOS1 Weight: 0.000
Submitted by: Analyst: ZAR Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C040	CARBON DISULFIDE	
15	C043	ACRYLONITRILE	
16	C045	1,1-DICHLOROETHENE	
17	C050	1,1-DICHLOROETHANE	
18	C053	1,2-DICHLOROETHENE (TOTAL)	
19	C060	CHLOROFORM	
20	C065	1,2-DICHLOROETHANE	
21	C110	2-BUTANONE	
22	C115	1,1,1-TRICHLOROETHANE	
23	C120	CARBON TETRACHLORIDE	
24	C125	VINYL ACETATE	
25	C130	BROMODICHLOROMETHANE	
26	C140	1,2-DICHLOROPROPANE	
27	C143	CIS-1,3-DICHLOROPROPENE	
28	C150	TRICHLOROETHENE	
29	C155	DIBROMOCHLOROMETHANE	
30	C160	1,1,2-TRICHLOROETHANE	
31	C165	BENZENE	
32	C172	TRANS-1,3-DICHLOROPROPENE	
33	C175	2-CHLOROETHYLVINYL ETHER	
34	C180	BROMOFORM	
35	C205	4-METHYL-2-PENTANONE	
36	C210	2-HEXANONE	
37	C220	TETRACHLOROETHENE	
38	C225	1,1,2,2-TETRACHLOROETHANE	
39	C230	TOLUENE	
40	C235	CHLOROBENZENE	
41	C240	ETHYL BENZENE	
42	C245	STYRENE	
43	C260	M-XYLENE	
44	C270	O-&/OR P-XYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	282	9:24	1	1.000	A BB	83638.	10.000 UG/L	1.03
2	77	552	18:24	2	1.000	A BB	236704.	10.000 UG/L	1.03
3	55	672	22:24	3	1.000	A BB	126443.	10.000 UG/L	1.03
4	65	362	12:04	1	1.284	A BB	92596.	10.000 UG/L	1.03
5	84	506	16:52	2	0.917	A VB	347231.	10.000 UG/L	1.03
6	98	698	23:16	3	1.039	A BB	342741.	10.000 UG/L	1.03
7	50	50	1:40	1	0.177	A VB	253212.	30.000 UG/L	3.08
8	94	79	2:38	1	0.280	A VB	163260.	30.000 UG/L	3.08
9	62	91	3:02	1	0.323	A BV	252952.	30.000 UG/L	3.08
10	64	123	4:06	1	0.436	A BB	201294.	30.000 UG/L	3.08
11	84	187	6:14	1	0.663	A BB	171182.	15.000 UG/L	1.54
12	43	204	6:48	1	0.723	A BB	52405.	75.000 UG/L	7.69
13	56	210	7:00	1	0.745	M XX	2442.	75.000 UG/L	7.69
14	76	232	7:44	1	0.823	A BB	587536.	15.000 UG/L	1.54
15	53	228	7:36	1	0.809	A BV	40527.	75.000 UG/L	7.69
16	96	268	8:56	1	0.950	A BB	256185.	15.000 UG/L	1.54
17	63	305	10:10	1	1.082	A BB	487396.	15.000 UG/L	1.54
18	96	327	10:54	1	1.160	A BB	268850.	15.000 UG/L	1.54
19	83	344	11:28	1	1.220	A BB	481761.	15.000 UG/L	1.54
20	62	366	12:12	1	1.298	A BB	174222.	15.000 UG/L	1.54
21	72	363	12:06	2	0.658	A BB	25209.	75.000 UG/L	7.69
22	97	403	13:26	2	0.730	A BB	404031.	15.000 UG/L	1.54
23	117	403	13:26	2	0.730	A BV	61822.	15.000 UG/L	1.54
24	43	420	14:00	2	0.761	A BB	45505.	30.000 UG/L	3.08
25	83	431	14:22	2	0.781	A BB	310097.	15.000 UG/L	1.54
26	63	470	15:40	2	0.851	A BB	263361.	15.000 UG/L	1.54
27	75	478	15:56	2	0.866	A BB	311056.	24.300 UG/L	2.49
28	130	495	16:30	2	0.897	A BB	400020.	15.000 UG/L	1.54
29	129	514	17:08	2	0.931	A BB	219755.	15.000 UG/L	1.54
30	97	517	17:14	2	0.937	A BB	131061.	15.000 UG/L	1.54
31	78	511	17:02	2	0.926	A BB	714191.	15.000 UG/L	1.54
32	75	517	17:14	2	0.937	A BB	176949.	5.700 UG/L	0.58
33	63	553	18:26	2	1.002	A BB	2855.	15.000 UG/L	1.54
34	173	594	19:48	2	1.076	A BB	135859.	15.000 UG/L	1.54
35	43	608	20:16	3	0.905	A BB	159333.	30.000 UG/L	3.08
36	43	655	21:50	3	0.975	A BV	100837.	30.000 UG/L	3.08
37	164	665	22:10	3	0.990	A BB	397265.	15.000 UG/L	1.54
38	83	663	22:06	3	0.987	A BB	108709.	15.000 UG/L	1.54
39	92	704	23:28	3	1.048	A BB	496723.	15.000 UG/L	1.54
40	112	738	24:36	3	1.098	A BB	644915.	15.000 UG/L	1.54
41	106	795	26:30	3	1.183	A BB	341160.	15.000 UG/L	1.54
42	104	910	30:20	3	1.354	A BB	501139.	15.000 UG/L	1.54
43	106	918	30:36	3	1.366	A BB	366209.	15.000 UG/L	1.54
44	106	946	31:32	3	1.408	A BB	342098.	15.000 UG/L	1.54

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:24	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	18:24	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	22:24	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:04	1.00	1.284	1.00	10.00	10.00	1.107	1.107	1.00
5	16:52	1.00	0.917	1.00	10.00	10.00	1.467	1.467	1.00
6	23:16	1.00	1.039	1.00	10.00	10.00	2.711	2.711	1.00
7	1:40	1.00	0.177	1.00	30.00	30.00	1.009	1.009	1.00
8	2:38	1.00	0.280	1.00	30.00	30.00	0.651	0.651	1.00
9	3:02	1.00	0.323	1.00	30.00	30.00	1.008	1.008	1.00
10	4:06	1.00	0.436	1.00	30.00	30.00	0.802	0.802	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	6:14	1.00	0.663	1.00	15.00	15.00	1.364	1.364	1.00
12	6:48	1.00	0.723	1.00	75.00	75.00	0.084	0.084	1.00
13	7:00	1.00	0.745	1.00	75.00	75.00	0.004	0.004	1.00
14	7:44	1.00	0.823	1.00	15.00	15.00	4.683	4.683	1.00
15	7:36	1.00	0.809	1.00	75.00	75.00	0.065	0.065	1.00
16	8:56	1.00	0.950	1.00	15.00	15.00	2.042	2.042	1.00
17	10:10	1.00	1.082	1.00	15.00	15.00	3.885	3.885	1.00
18	10:54	1.00	1.160	1.00	15.00	15.00	2.143	2.143	1.00
19	11:28	1.00	1.220	1.00	15.00	15.00	3.840	3.840	1.00
20	12:12	1.00	1.298	1.00	15.00	15.00	1.389	1.389	1.00
21	12:06	1.00	0.658	1.00	75.00	75.00	0.014	0.014	1.00
22	13:26	1.00	0.730	1.00	15.00	15.00	1.138	1.138	1.00
23	13:26	1.00	0.730	1.00	15.00	15.00	0.174	0.174	1.00
24	14:00	1.00	0.761	1.00	30.00	30.00	0.064	0.064	1.00
25	14:22	1.00	0.781	1.00	15.00	15.00	0.873	0.873	1.00
26	15:40	1.00	0.851	1.00	15.00	15.00	0.742	0.742	1.00
27	15:56	1.00	0.866	1.00	24.30	24.30	0.541	0.541	1.00
28	16:30	1.00	0.897	1.00	15.00	15.00	1.127	1.127	1.00
29	17:08	1.00	0.931	1.00	15.00	15.00	0.619	0.619	1.00
30	17:14	1.00	0.937	1.00	15.00	15.00	0.369	0.369	1.00
31	17:02	1.00	0.926	1.00	15.00	15.00	2.011	2.011	1.00
32	17:14	1.00	0.937	1.00	5.70	5.70	1.311	1.311	1.00
33	18:26	1.00	1.002	1.00	15.00	15.00	0.008	0.008	1.00
34	19:48	1.00	1.076	1.00	15.00	15.00	0.383	0.383	1.00
35	20:16	1.00	0.905	1.00	30.00	30.00	0.420	0.420	1.00
36	21:50	1.00	0.975	1.00	30.00	30.00	0.266	0.266	1.00
37	22:10	1.00	0.990	1.00	15.00	15.00	2.095	2.095	1.00
38	22:06	1.00	0.987	1.00	15.00	15.00	0.573	0.573	1.00
39	23:28	1.00	1.048	1.00	15.00	15.00	2.619	2.619	1.00
40	24:36	1.00	1.098	1.00	15.00	15.00	3.400	3.400	1.00
41	26:30	1.00	1.183	1.00	15.00	15.00	1.799	1.799	1.00
42	30:20	1.00	1.354	1.00	15.00	15.00	2.642	2.642	1.00
43	30:36	1.00	1.366	1.00	15.00	15.00	1.931	1.931	1.00
44	31:32	1.00	1.408	1.00	15.00	15.00	1.804	1.804	1.00

PROCRUSTES VOA DIAGNOSTIC REPORT 5/25/93 11:34:42

DATA FILE: CC0525
REFERENCE: VP11
NAME LIST: VP INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: VP_IS

< ---- STANDARDS ----- ><				--- PLUS UNKNOWNS --- ><				- LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	3	4	80	6	6	1	67	VP_IS/VP_SURR
3	3	1	80	12	12	16	103	VP_IS/VP_CMPDS1
3	3	1	80	12	11	1	58	VP_IS/VP_CMPDS2
3	3	1	80	12	11	1	55	VP_IS/VP_CMPDS3
3	3	1	80	14	12	1	177	VP_IS/VP_CMPDS4

44 COMPOUNDS PROCESSED, 40 FOUND

< COMPOUND ><			---------- SEARCH ---------- >< SAT >< ------ CHRO ------- >										
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	VP	1	287	282	282	.	1	972	.	128	282	.	1
2	VP	2	558	553	552	-1	4	991	.	77	552	.	1
3	VP	3	677	672	672	.	1	995	.	55	672	.	1
4	VP	4	367	362	363	1	1	971	.	65	362	-1	1
5	VP	5	511	506	506	.	1	974	.	84	506	.	1
6	VP	6	704	698	698	.	1	994	.	98	698	.	1
7	VP	7	52	48	50	2	2	984	.	50	50	.	1
8	VP	8	82	78	79	1	2	998	.	94	79	.	1
9	VP	9	95	91	91	.	2	999	.	62	91	.	1
10	VP	10	127	123	123	.	1	998	.	64	123	.	1
11	VP	11	192	188	187	-1	1	976	.	84	187	.	1
12	VP	12	-210	206	204	-2	1	859	.	43	204	.	1
13	VP	13	-221	217	218	1	2	779	.	56	219	1	1
14	VP	14	237	233	232	-1	1	999	.	76	232	.	1
15	VP	15	-232	228	228	.	1	971	.	53	228	.	1
16	VP	16	272	268	268	.	1	965	.	96	268	.	1
17	VP	17	309	305	305	.	1	967	.	63	305	.	1
18	VP	18	331	327	327	.	1	958	.	96	327	.	1
19	VP	19	348	344	344	.	1	952	.	83	344	.	1
20	VP	20	370	365	365	.	1	959	.	62	366	1	1
21	VP	21	368	363	363	.	1	994	.	72	363	.	1
22	VP	22	407	402	403	1	1	947	.	97	403	.	1
23	VP	23	408	403	403	.	1	975	.	117	403	.	1
24	VP	24	-424	419	.	.	.	.	.	43	420	.	1
25	VP	25	435	430	431	1	1	970	.	83	431	.	1
26	VP	26	475	470	470	.	1	980	.	63	470	.	1
27	VP	27	483	478	478	.	1	975	.	75	478	.	1
28	VP	28	500	495	495	.	1	956	.	130	495	.	1
29	VP	29	519	514	513	-1	1	933	.	129	514	1	1
30	VP	30	522	517	517	.	1	997	.	97	517	.	1
31	VP	31	516	511	511	.	1	991	.	78	511	.	1
32	VP	32	521	516	516	.	1	929	.	75	517	1	1
33	VP	33	559	554	.	.	.	.	.	63	553	.	1
34	VP	34	599	593	594	1	1	956	.	173	594	.	1
35	VP	35	613	607	608	1	1	998	.	43	608	.	1
36	VP	36	-659	653	.	.	.	.	.	43	655	.	1
37	VP	37	670	663	665	2	1	907	.	164	665	.	1
38	VP	38	-669	663	.	.	.	.	.	83	663	.	1
39	VP	39	709	702	704	2	1	994	.	92	704	.	1
40	VP	40	744	737	738	1	1	983	.	112	738	.	1
41	VP	41	802	794	795	1	1	992	.	106	795	.	1
42	VP	42	922	913	911	-2	1	993	.	104	910	-1	1
43	VP	44	929	920	918	-2	1	997	.	106	918	.	1
44	VP	45	958	948	946	-2	1	995	.	106	946	.	1

Quantitation Report File: CC0525

Data: CC0525.TI
05/25/93 10:49:00
Sample: CLP,1187,,CC0525,L,W,,V,CC
Conds : 45' (3 MIN) TO 220' @ 8'/MIN
Formula Instrument: INCOS1 Weight: 0.000
Submitted by Analyst: ZAR Acct. No

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. Fac. From Library Entry

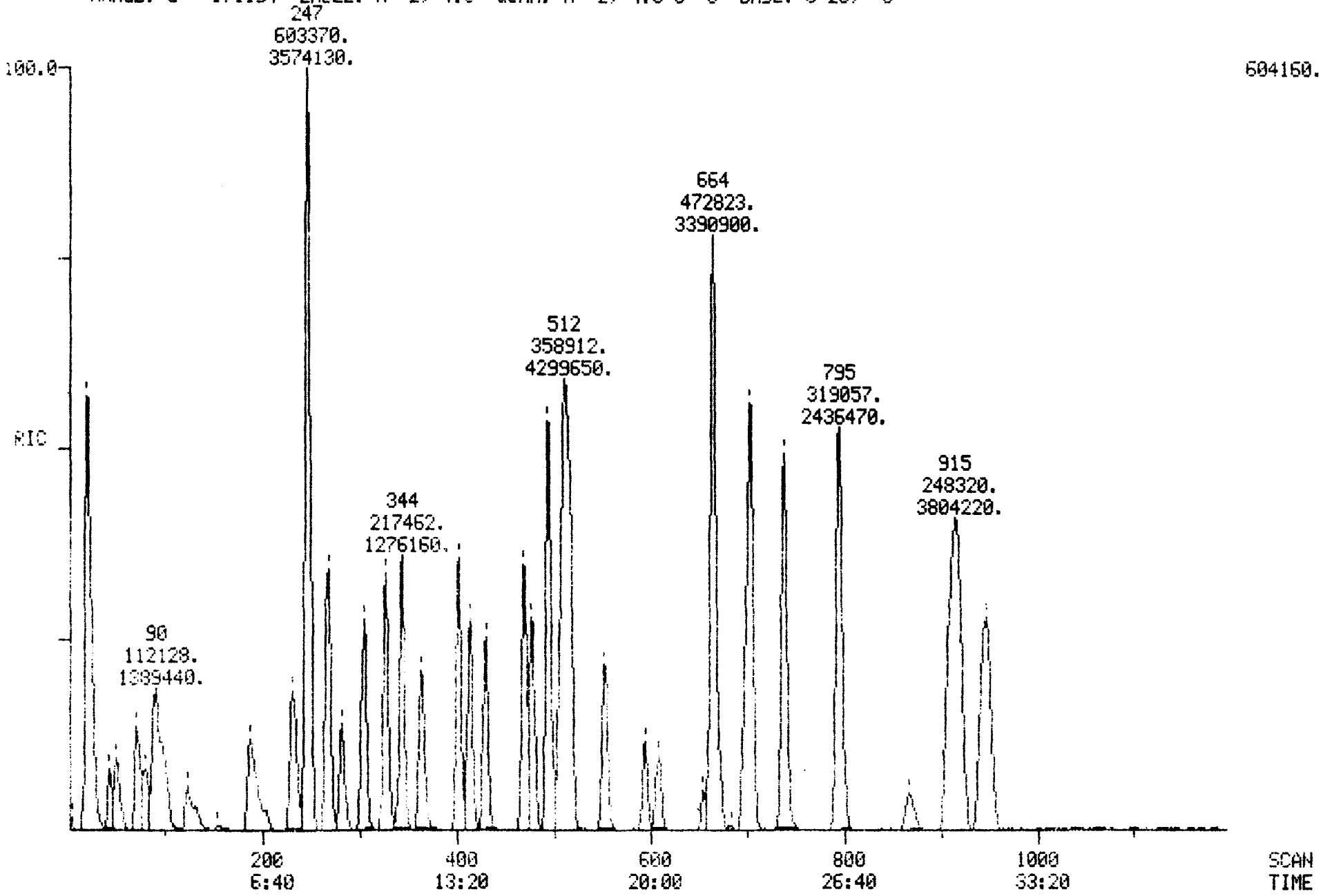
No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS20	TOLUENE-D8	*SURROGATE*
6	CS25	BROMOFLUOROBENZENE	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C040	CARBON DISULFIDE	
15	C043	ACRYLONITRILE	
16	C045	1,1-DICHLOROETHENE	
17	C050	1,1-DICHLOROETHANE	
18	C053	1,2-DICHLOROETHENE (TOTAL)	
19	C060	CHLOROFORM	
20	C065	1,2-DICHLOROETHANE	
21	C110	2-BUTANONE	
22	C115	1,1,1-TRICHLOROETHANE	
23	C120	CARBON TETRACHLORIDE	
24	C125	VINYL ACETATE	
25	C130	BROMODICHLOROMETHANE	
26	C140	1,2-DICHLOROPROPANE	
27	C143	CIS-1,3-DICHLOROPROPENE	
28	C150	TRICHLOROETHENE	
29	C155	DIBROMOCHLOROMETHANE	
30	C160	1,1,2-TRICHLOROETHANE	
31	C165	BENZENE	
32	C172	TRANS-1,3-DICHLOROPROPENE	
33	C175	2-CHLOROETHYLVINYL ETHER	
34	C180	BROMOFORM	
35	C205	4-METHYL-2-PENTANONE	
36	C210	2-HEXANONE	
37	C220	TETRACHLOROETHENE	
38	C225	1,1,2,2-TETRACHLOROETHANE	
39	C230	TOLUENE	
40	C235	CHLOROBENZENE	
41	C240	ETHYL BENZENE	
42	C245	STYRENE	
43	C260	M-XYLENE	
44	C270	O-&/OR P-XYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	282	9:24	1	1.000	A BB	83638.	10.000	UG/L	0.88
2	77	552	18:24	2	1.000	A BB	236704.	10.000	UG/L	0.88
3	55	672	22:24	3	1.000	A BB	126443.	10.000	UG/L	0.88
4	65	362	12:04	1	1.284	A BB	92596.	8.696	UG/L	0.76
5	84	506	16:52	2	0.917	A VB	347231.	11.844	UG/L	1.04
6	98	698	23:16	3	1.039	A BB	342741.	14.071	UG/L	1.24
7	50	50	1:40	1	0.177	A VB	253212.	39.666	UG/L	3.49
8	94	79	2:38	1	0.280	A VB	163260.	45.020	UG/L	3.96
9	62	91	3:02	1	0.323	A BV	252952.	37.563	UG/L	3.30
10	64	123	4:06	1	0.436	A BB	201294.	63.233	UG/L	5.56
11	84	187	6:14	1	0.663	A BB	171182.	19.362	UG/L	1.70
12	43	204	6:48	1	0.723	A BB	52405.	69.648	UG/L	6.12
13	56	219	7:18	1	0.777	A VB	736.	58.975	UG/L	5.18
14	76	232	7:44	1	0.823	A BB	587536.	26.136	UG/L	2.30
15	53	228	7:36	1	0.809	A BV	40527.	70.195	UG/L	6.17
16	96	268	8:56	1	0.950	A BB	256185.	21.520	UG/L	1.89
17	63	305	10:10	1	1.082	A BB	487396.	21.187	UG/L	1.86
18	96	327	10:54	1	1.160	A BB	268850.	21.603	UG/L	1.90
19	83	344	11:28	1	1.220	A BB	481761.	19.154	UG/L	1.68
20	62	366	12:12	1	1.298	A BB	174222.	15.020	UG/L	1.32
21	72	363	12:06	2	0.658	A BB	25209.	68.028	UG/L	5.98
22	97	403	13:26	2	0.730	A BB	404031.	19.668	UG/L	1.73
23	117	403	13:26	2	0.730	A BV	61822.	19.876	UG/L	1.75
24	43	420	14:00	2	0.761	A BB	45505.	32.922	UG/L	2.89
25	83	431	14:22	2	0.781	A BB	310097.	15.994	UG/L	1.41
26	63	470	15:40	2	0.851	A BB	263361.	19.325	UG/L	1.70
27	75	478	15:56	2	0.866	A BB	311056.	26.687	UG/L	2.35
28	130	495	16:30	2	0.897	A BB	400020.	19.185	UG/L	1.69
29	129	514	17:08	2	0.931	A BB	219755.	12.883	UG/L	1.13
30	97	517	17:14	2	0.937	A BB	131061.	14.269	UG/L	1.25
31	78	511	17:02	2	0.926	A BB	714191.	20.587	UG/L	1.81
32	75	517	17:14	2	0.937	A BB	176949.	5.597	UG/L	0.49
33	63	553	18:26	2	1.002	A BB	2855.	11.757	UG/L	1.03
34	173	594	19:48	2	1.076	A BB	135859.	11.446	UG/L	1.01
35	43	608	20:16	3	0.905	A BB	159333.	31.970	UG/L	2.81
36	43	655	21:50	3	0.975	A BV	100837.	32.481	UG/L	2.85
37	164	665	22:10	3	0.990	A BB	397265.	23.829	UG/L	2.09
38	83	663	22:06	3	0.987	A BB	108709.	16.848	UG/L	1.48
39	92	704	23:28	3	1.048	A BB	496723.	24.627	UG/L	2.16
40	112	738	24:36	3	1.098	A BB	644915.	22.942	UG/L	2.02
41	106	795	26:30	3	1.183	A BB	341160.	24.637	UG/L	2.17
42	104	910	30:20	3	1.354	A BB	501139.	21.839	UG/L	1.92
43	106	918	30:36	3	1.366	A BB	366209.	23.925	UG/L	2.10
44	106	946	31:32	3	1.408	A BB	342098.	23.609	UG/L	2.07

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:30	0.97	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	18:32	0.99	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	22:37	0.98	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:15	0.97	1.284	1.00	8.70	10.00	1.107	1.273	0.87
5	16:53	0.99	0.917	1.00	11.84	10.00	1.467	1.237	1.18
6	23:26	0.99	1.040	1.00	14.07	10.00	2.711	1.926	1.41
7	1:48	0.93	0.189	0.94	39.67	30.00	1.009	0.763	1.32
8	2:40	0.94	0.295	0.95	45.02	30.00	0.451	[illegible]	[illegible]
9	3:36	0.98	0.324	0.99	37.56	30.00	1.008	0.875	1.15
10	[illegible]	[illegible]	[illegible]	0.99	63.23	30.00	0.502	[illegible]	[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11	[illegible]	[illegible]	[illegible]	[illegible]	19.76	[illegible]	1.364	[illegible]	1.29
12	[illegible]	[illegible]	[illegible]	1.00	69.85	75.00	0.084	0.090	0.93
13	[illegible]	1.03	0.744	1.04	58.97	75.00	0.001	[illegible]	0.79
14	[illegible]	[illegible]	0.828	0.99	26.14	15.00	4.683	2.688	1.74
15	7.42	0.99	0.811	1.00	70.20	75.00	0.065	0.069	0.94
16	9.02	0.99	0.951	1.00	21.52	15.00	2.042	1.423	1.43
17	10:16	0.99	1.081	1.00	21.19	15.00	3.885	2.750	1.41
18	11:00	0.99	1.158	1.00	21.60	15.00	2.143	1.488	1.44
19	11:34	0.99	1.218	1.00	19.15	15.00	3.840	3.007	1.28
20	12:18	0.99	1.275	1.00	15.02	15.00	1.389	1.387	1.00
21	12:12	0.99	0.658	1.00	68.03	75.00	0.014	0.016	0.91
22	13:32	0.99	0.730	1.00	19.67	15.00	1.138	0.868	1.31
23	13:32	0.99	0.730	1.00	19.88	15.00	0.174	0.131	1.33
24	14:06	0.99	0.761	1.00	32.92	30.00	0.064	0.058	1.10
25	14:28	0.99	0.781	1.00	15.99	15.00	0.873	0.819	1.07
26	15:48	0.99	0.853	1.00	19.32	15.00	0.742	0.576	1.29
27	16:04	0.99	0.867	1.00	26.69	24.30	0.541	0.492	1.10
28	16:38	0.99	0.897	1.00	19.18	15.00	1.127	0.881	1.28
29	17:14	0.99	0.930	1.00	12.88	15.00	0.619	0.721	0.86
30	17:22	0.99	0.937	1.00	14.27	15.00	0.369	0.388	0.95
31	17:10	0.99	0.926	1.00	20.59	15.00	2.011	1.466	1.37
32	17:22	0.99	0.937	1.00	5.60	5.70	1.311	1.336	0.98
33	18:32	0.99	1.000	1.00	11.76	15.00	0.008	0.010	0.78
34	19:56	0.99	1.076	1.00	11.45	15.00	0.383	0.501	0.76
35	20:24	0.99	0.905	1.00	31.97	30.00	0.420	0.394	1.07
36	21:58	0.99	0.975	1.00	32.48	30.00	0.266	0.246	1.08
37	22:18	0.99	0.990	1.00	23.83	15.00	2.095	1.318	1.59
38	22:14	0.99	0.987	1.00	16.85	15.00	0.573	0.510	1.12
39	23:36	0.99	1.047	1.00	24.63	15.00	2.619	1.595	1.64
40	24:46	0.99	1.099	1.00	22.94	15.00	3.400	2.223	1.53
41	26:42	0.99	1.185	1.00	24.64	15.00	1.799	1.095	1.64
42	30:38	0.99	1.359	1.00	21.84	15.00	2.642	1.815	1.46
43	30:56	0.99	1.373	1.00	23.92	15.00	1.931	1.211	1.59
44	31:54	0.99	1.416	0.99	23.61	15.00	1.804	1.146	1.57

RIC DATA: CC0525 #1 SCANS 1 TO 1194
05/25/93 10:49:00 CALI: CC0525 #3
SAMPLE: CLP,1187,,CC0525,L,W,,V,CC
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
RANGE: G 1,1194 LABEL: N 2, 4.0 QUAN: A 2, 4.0 J 0 BASE: U 20, 3



Quantitation Report File: CC0525

Data: CC0525.TI
05/25/93 10:49:00
Sample: CLP,1187,,CC0525,L,W,,V,CC
Conds.: 45' (3 MIN) TO 220' @ 8'/MIN
Formula: Instrument: INCOS1 Weight: 0.000
Submitted by: Analyst: ZAR Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C040	CARBON DISULFIDE	
15	C043	ACRYLONITRILE	
16	C045	1,1-DICHLOROETHENE	
17	C050	1,1-DICHLOROETHANE	
18	C053	1,2-DICHLOROETHENE (TOTAL)	
19	C060	CHLOROFORM	
20	C065	1,2-DICHLOROETHANE	
21	C110	2-BUTANONE	
22	C115	1,1,1-TRICHLOROETHANE	
23	C120	CARBON TETRACHLORIDE	
24	C125	VINYL ACETATE	
25	C130	BROMODICHLOROMETHANE	
26	C140	1,2-DICHLOROPROPANE	
27	C143	CIS-1,3-DICHLOROPROPENE	
28	C150	TRICHLOROETHENE	
29	C155	DIBROMOCHLOROMETHANE	
30	C160	1,1,2-TRICHLOROETHANE	
31	C165	BENZENE	
32	C172	TRANS-1,3-DICHLOROPROPENE	
33	C175	2-CHLOROETHYLVINYL ETHER	
34	C180	BROMOFORM	
35	C205	4-METHYL-2-PENTANONE	
36	C210	2-HEXANONE	
37	C220	TETRACHLOROETHENE	
38	C225	1,1,2,2-TETRACHLOROETHANE	
39	C230	TOLUENE	
40	C235	CHLOROBENZENE	
41	C240	ETHYL BENZENE	
42	C245	STYRENE	
43	C260	M-XYLENE	
44	C270	O-&/OR P-XYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	282	9:24	1	1.000	A BB	83638.	10.000 UG/L	0.88
2	77	552	18:24	2	1.000	A BB	236704.	10.000 UG/L	0.88
3	55	672	22:24	3	1.000	A BB	126443.	10.000 UG/L	0.88
4	65	362	12:04	1	1.284	A BB	92596.	8.696 UG/L	0.76
5	84	506	16:52	2	0.917	A VB	347231.	11.844 UG/L	1.04
6	98	698	23:16	3	1.039	A BB	342741.	14.071 UG/L	1.24
7	50	50	1:40	1	0.177	A VB	253212.	39.666 UG/L	3.49
8	94	79	2:38	1	0.280	A VB	163260.	45.020 UG/L	3.96
9	62	91	3:02	1	0.323	A BV	252952.	37.563 UG/L	3.30
10	64	123	4:06	1	0.436	A BB	201294.	63.233 UG/L	5.56
11	84	187	6:14	1	0.663	A BB	171182.	19.362 UG/L	1.70
12	43	204	6:48	1	0.723	A BB	52405.	69.648 UG/L	6.12
13	56	219	7:18	1	0.777	A VB	736.	58.975 UG/L	5.18
14	76	232	7:44	1	0.823	A BB	587536.	26.136 UG/L	2.30
15	53	228	7:36	1	0.809	A BV	40527.	70.195 UG/L	6.17
16	96	268	8:56	1	0.950	A BB	256185.	21.520 UG/L	1.89
17	63	305	10:10	1	1.082	A BB	487396.	21.187 UG/L	1.86
18	96	327	10:54	1	1.160	A BB	268850.	21.603 UG/L	1.90
19	83	344	11:28	1	1.220	A BB	481761.	19.154 UG/L	1.68
20	62	366	12:12	1	1.298	A BB	174222.	15.020 UG/L	1.32
21	72	363	12:06	2	0.658	A BB	25209.	68.028 UG/L	5.98
22	97	403	13:26	2	0.730	A BB	404031.	19.668 UG/L	1.73
23	117	403	13:26	2	0.730	A BV	61822.	19.876 UG/L	1.75
24	43	420	14:00	2	0.761	A BB	45505.	32.922 UG/L	2.89
25	83	431	14:22	2	0.781	A BB	310097.	15.994 UG/L	1.41
26	63	470	15:40	2	0.851	A BB	263361.	19.325 UG/L	1.70
27	75	478	15:56	2	0.866	A BB	311056.	26.687 UG/L	2.35
28	130	495	16:30	2	0.897	A BB	400020.	19.185 UG/L	1.69
29	129	514	17:08	2	0.931	A BB	219755.	12.883 UG/L	1.13
30	97	517	17:14	2	0.937	A BB	131061.	14.269 UG/L	1.25
31	78	511	17:02	2	0.926	A BB	714191.	20.587 UG/L	1.81
32	75	517	17:14	2	0.937	A BB	176949.	5.597 UG/L	0.49
33	63	553	18:26	2	1.002	A BB	2855.	11.757 UG/L	1.03
34	173	594	19:48	2	1.076	A BB	135859.	11.446 UG/L	1.01
35	43	608	20:16	3	0.905	A BB	159333.	31.970 UG/L	2.81
36	43	655	21:50	3	0.975	A BV	100837.	32.481 UG/L	2.85
37	164	665	22:10	3	0.990	A BB	397265.	23.829 UG/L	2.09
38	83	663	22:06	3	0.987	A BB	108709.	16.848 UG/L	1.48
39	92	704	23:28	3	1.048	A BB	496723.	24.627 UG/L	2.16
40	112	738	24:36	3	1.098	A BB	644915.	22.942 UG/L	2.02
41	106	795	26:30	3	1.183	A BB	341160.	24.637 UG/L	2.17
42	104	910	30:20	3	1.354	A BB	501139.	21.839 UG/L	1.92
43	106	918	30:36	3	1.366	A BB	366209.	23.925 UG/L	2.10
44	106	946	31:32	3	1.408	A BB	342098.	23.609 UG/L	2.07

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:30	0.99	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	18:32	0.99	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	22:32	0.99	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:12	0.99	1.284	1.00	8.70	10.00	1.107	1.273	0.87
5	17:00	0.99	0.917	1.00	11.84	10.00	1.467	1.239	1.18
6	23:26	0.99	1.040	1.00	14.07	10.00	2.711	1.926	1.41
7	1:48	0.93	0.189	0.94	39.67	30.00	1.009	0.763	1.32
8	2:48	0.94	0.295	0.95	45.02	30.00	0.651	0.434	1.50
9	3:06	0.98	0.326	0.99	37.56	30.00	1.008	0.805	1.25
10	4:10	0.98	0.439	0.99	63.23	30.00	0.802	0.381	2.11

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	6:20	0.98	0.667	0.99	19.36	15.00	1.364	1.057	1.29
12	6:54	0.99	0.726	1.00	69.65	75.00	0.084	0.090	0.93
13	7:04	1.03	0.744	1.04	58.97	75.00	0.001	0.001	0.79
14	7:52	0.98	0.828	0.99	26.14	15.00	4.683	2.688	1.74
15	7:42	0.99	0.811	1.00	70.20	75.00	0.065	0.069	0.94
16	9:02	0.99	0.951	1.00	21.52	15.00	2.042	1.423	1.43
17	10:16	0.99	1.081	1.00	21.19	15.00	3.885	2.750	1.41
18	11:00	0.99	1.158	1.00	21.60	15.00	2.143	1.488	1.44
19	11:34	0.99	1.218	1.00	19.15	15.00	3.840	3.007	1.28
20	12:18	0.99	1.295	1.00	15.02	15.00	1.389	1.387	1.00
21	12:12	0.99	0.658	1.00	68.03	75.00	0.014	0.016	0.91
22	13:32	0.99	0.730	1.00	19.67	15.00	1.138	0.868	1.31
23	13:32	0.99	0.730	1.00	19.88	15.00	0.174	0.131	1.33
24	14:06	0.99	0.761	1.00	32.92	30.00	0.064	0.058	1.10
25	14:28	0.99	0.781	1.00	15.99	15.00	0.873	0.819	1.07
26	15:48	0.99	0.853	1.00	19.32	15.00	0.742	0.576	1.29
27	16:04	0.99	0.867	1.00	26.69	24.30	0.541	0.492	1.10
28	16:38	0.99	0.897	1.00	19.18	15.00	1.127	0.881	1.28
29	17:14	0.99	0.930	1.00	12.88	15.00	0.619	0.721	0.86
30	17:22	0.99	0.937	1.00	14.27	15.00	0.369	0.388	0.95
31	17:10	0.99	0.926	1.00	20.59	15.00	2.011	1.466	1.37
32	17:22	0.99	0.937	1.00	5.60	5.70	1.311	1.336	0.98
33	18:32	0.99	1.000	1.00	11.76	15.00	0.008	0.010	0.78
34	19:56	0.99	1.076	1.00	11.45	15.00	0.383	0.501	0.76
35	20:24	0.99	0.905	1.00	31.97	30.00	0.420	0.394	1.07
36	21:58	0.99	0.975	1.00	32.48	30.00	0.266	0.246	1.08
37	22:18	0.99	0.990	1.00	23.83	15.00	2.095	1.318	1.59
38	22:14	0.99	0.987	1.00	16.85	15.00	0.573	0.510	1.12
39	23:36	0.99	1.047	1.00	24.63	15.00	2.619	1.595	1.64
40	24:46	0.99	1.099	1.00	22.94	15.00	3.400	2.223	1.53
41	26:42	0.99	1.185	1.00	24.64	15.00	1.799	1.095	1.64
42	30:38	0.99	1.359	1.00	21.84	15.00	2.642	1.815	1.46
43	30:56	0.99	1.373	1.00	23.92	15.00	1.931	1.211	1.59
44	31:54	0.99	1.416	0.99	23.61	15.00	1.804	1.146	1.57

PROCEDURE: TCA DIAGNOSTIC REPORT 5/25/93 13:42:30
DATA FILE: IC050525
REFERENCE: VP11
NAME LIST: VP INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: VP_IS

< ---- STANDARDS ----- ><				--- PLUS UNKNOWNS --- ><				- LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	3	2	0	6	6	1	0	VP_IS/VP_SURR
3	3	1	0	12	11	12	74	VP_IS/VP_CMPDS1
3	3	1	0	12	11	1	52	VP_IS/VP_CMPDS2
3	3	1	0	12	11	1	55	VP_IS/VP_CMPDS3
3	3	1	0	14	13	1	52	VP_IS/VP_CMPDS4

44 COMPOUNDS PROCESSED, 40 FOUND

< COMPOUND ><			---------- SEARCH ---------- >< SAT >< ------ CHRO ------- >										
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	VP	1	283	282	282	.	1	971	.	128	282	.	1
2	VP	2	553	552	552	.	2	991	.	77	552	.	1
3	VP	3	672	671	671	.	1	992	.	55	672	1	1
4	VP	4	363	362	362	.	1	990	.	65	362	.	1
5	VP	5	507	506	506	.	1	971	.	84	506	.	1
6	VP	6	699	698	698	.	1	994	.	98	698	.	1
7	VP	7	52	51	51	.	2	988	.	50	51	.	1
8	VP	8	82	81	81	.	2	1000	.	94	81	.	1
9	VP	9	92	91	91	.	1	995	.	62	91	.	1
10	VP	10	124	123	123	.	1	1000	.	64	123	.	1
11	VP	11	188	187	187	.	1	980	.	84	187	.	1
12	VP	12	206	205	.	.	.	.	.	43	205	.	1
13	VP	13	209	208	207	-1	3	677	.	56	209	2	1
14	VP	14	233	232	232	.	1	1000	.	76	232	.	1
15	VP	15	229	228	230	2	1	953	.	53	228	-2	1
16	VP	16	268	267	268	1	1	969	.	96	268	.	1
17	VP	17	306	305	305	.	1	967	.	63	305	.	1
18	VP	18	328	327	327	.	1	960	.	96	327	.	1
19	VP	19	344	343	344	1	1	955	.	83	344	.	1
20	VP	20	366	365	365	.	1	938	.	62	366	1	1
21	VP	21	364	363	363	.	1	996	.	72	363	.	1
22	VP	22	403	402	403	1	1	950	.	97	403	.	1
23	VP	23	403	402	403	1	1	984	.	117	402	-1	1
24	VP	24	421	420	.	.	.	.	.	43	420	.	1
25	VP	25	431	431	431	.	1	972	.	83	431	.	1
26	VP	26	471	471	471	.	1	985	.	63	471	.	1
27	VP	27	479	479	479	.	1	976	.	75	479	.	1
28	VP	28	496	496	496	.	1	953	.	130	495	-1	1
29	VP	29	514	514	514	.	1	963	.	129	514	.	1
30	VP	30	518	518	517	-1	1	993	.	97	517	.	1
31	VP	31	511	511	511	.	1	990	.	78	511	.	1
32	VP	32	517	517	516	-1	1	938	.	75	517	1	1
33	VP	33	-555	554	.	.	.	.	.	63	553	.	1
34	VP	34	594	594	594	.	1	957	.	173	594	.	1
35	VP	35	608	608	608	.	1	996	.	43	607	-1	1
36	VP	36	-653	653	.	.	.	.	.	43	654	.	1
37	VP	37	-665	665	665	.	1	905	.	164	665	.	1
38	VP	38	664	664	664	.	1	803	.	83	663	-1	1
39	VP	39	704	704	704	.	1	996	.	92	704	.	1
40	VP	40	739	739	738	-1	1	962	.	112	738	.	1
41	VP	41	795	795	795	.	1	997	.	106	795	.	1
42	VP	42	911	912	912	.	1	996	.	104	911	-1	1
43	VP	44	918	919	919	.	1	998	.	106	919	.	1
44	VP	45	946	947	947	.	1	996	.	106	947	.	1

Quantitation Report [illegible]

Data: [illegible]
05/25/93 12:54:00
Sample: CLP,1187,,IC050525,L,W,,V,IC05
Conds: 45' (3 MIN) TO 220' @ 8'/MIN
Formula: Instrument: INCOS1 Weight: 0.000
Submitted by: Analyst: ZAR Arct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C040	CARBON DISULFIDE	
15	C043	ACRYLONITRILE	
16	C045	1,1-DICHLOROETHENE	
17	C050	1,1-DICHLOROETHANE	
18	C053	1,2-DICHLOROETHENE (TOTAL)	
19	C060	CHLOROFORM	
20	C065	1,2-DICHLOROETHANE	
21	C110	2-BUTANONE	
22	C115	1,1,1-TRICHLOROETHANE	
23	C120	CARBON TETRACHLORIDE	
24	C125	VINYL ACETATE	
25	C130	BROMODICHLOROMETHANE	
26	C140	1,2-DICHLOROPROPANE	
27	C143	CIS-1,3-DICHLOROPROPENE	
28	C150	TRICHLOROETHENE	
29	C155	DIBROMOCHLOROMETHANE	
30	C160	1,1,2-TRICHLOROETHANE	
31	C165	BENZENE	
32	C172	TRANS-1,3-DICHLOROPROPENE	
33	C175	2-CHLOROETHYLVINYL ETHER	
34	C180	BROMOFORM	
35	C205	4-METHYL-2-PENTANONE	
36	C210	2-HEXANONE	
37	C220	TETRACHLOROETHENE	
38	C225	1,1,2,2-TETRACHLOROETHANE	
39	C230	TOLUENE	
40	C235	CHLOROBENZENE	
41	C240	ETHYL BENZENE	
42	C245	STYRENE	
43	C260	M-XYLENE	
44	C270	O-&/OR P-XYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	282	9:24	1	1.000	A BB	149152.	10.000 UG/L	2.47
2	77	552	18:24	2	1.000	A BB	404887.	10.000 UG/L	2.47
3	55	672	22:24	3	1.000	A BB	244912.	10.000 UG/L	2.47
4	65	362	12:04	1	1.284	A BB	160993.	8.478 UG/L	2.10
5	84	506	16:52	2	0.917	A VB	521225.	10.394 UG/L	2.57
6	98	698	23:16	3	1.039	A BB	529980.	11.233 UG/L	2.78
7	50	51	1:42	1	0.181	A VB	108727.	9.551 UG/L	2.36
8	94	81	2:42	1	0.287	A VB	55534.	8.587 UG/L	2.12
9	62	91	3:02	1	0.323	A BB	139097.	11.583 UG/L	2.86
10	64	123	4:06	1	0.436	A BB	74425.	13.110 UG/L	3.24
11	84	187	6:14	1	0.663	A BB	86938.	5.514 UG/L	1.36
12	43	205	6:50	1	0.727	A BB	38966.	29.040 UG/L	7.18
13	56	209	6:58	1	0.741	A BB	952.	42.808 UG/L	10.58
14	76	232	7:44	1	0.823	A BB	253662.	6.328 UG/L	1.56
15	53	228	7:36	1	0.809	A BV	26586.	25.822 UG/L	6.38
16	96	268	8:56	1	0.950	A BB	115330.	5.432 UG/L	1.34
17	63	305	10:10	1	1.082	A BB	222151.	5.415 UG/L	1.34
18	96	327	10:54	1	1.160	A BB	120170.	5.415 UG/L	1.34
19	83	344	11:28	1	1.220	A BB	229156.	5.109 UG/L	1.26
20	62	366	12:12	1	1.298	A BB	96259.	4.654 UG/L	1.15
21	72	363	12:06	2	0.658	A BB	14574.	22.993 UG/L	5.68
22	97	403	13:26	2	0.730	A BB	188814.	5.374 UG/L	1.33
23	117	402	13:24	2	0.728	A BV	28280.	5.315 UG/L	1.31
24	43	420	14:00	2	0.761	A BB	30844.	13.046 UG/L	3.23
25	83	431	14:22	2	0.781	A BB	157759.	4.757 UG/L	1.18
26	63	471	15:42	2	0.853	A BB	126654.	5.433 UG/L	1.34
27	75	479	15:58	2	0.868	A BB	161749.	8.113 UG/L	2.01
28	130	495	16:30	2	0.897	A BB	194031.	5.440 UG/L	1.34
29	129	514	17:08	2	0.931	A BB	125099.	4.288 UG/L	1.06
30	97	517	17:14	2	0.937	A BB	71569.	4.555 UG/L	1.13
31	78	511	17:02	2	0.926	A BB	326410.	5.501 UG/L	1.36
32	75	517	17:14	2	0.937	A BB	92965.	1.719 UG/L	0.43
33	63	553	18:26	2	1.002	A BB	4743.	11.420 UG/L	2.82
34	173	594	19:48	2	1.076	A BB	84553.	4.165 UG/L	1.03
35	43	607	20:14	3	0.903	A BB	98292.	10.182 UG/L	2.52
36	43	654	21:48	3	0.973	A BB	57113.	9.498 UG/L	2.35
37	164	665	22:10	3	0.990	A BB	195435.	6.052 UG/L	1.50
38	83	663	22:06	3	0.987	A BB	59360.	4.750 UG/L	1.17
39	91	704	23:28	3	1.048	A BB	227768.	5.830 UG/L	1.44
40	110	738	24:36	3	1.098	A BB	312753.	5.744 UG/L	1.42
41	106	795	26:30	3	1.183	A BB	150772.	5.621 UG/L	1.39
42	104	911	30:22	3	1.356	A BB	232360.	5.228 UG/L	1.29
43	106	919	30:38	3	1.368	A BB	165109.	5.569 UG/L	1.38
44	106	947	31:34	3	1.409	A BB	152841.	5.446 UG/L	1.35

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:30	0.99	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	18:32	0.99	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	22:32	0.99	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:12	0.99	1.284	1.00	8.48	10.00	1.079	1.273	0.85
5	17:00	0.99	0.917	1.00	10.39	10.00	1.287	1.239	1.04
6	23:26	0.99	1.040	1.00	11.23	10.00	2.164	1.926	1.12
7	1:48	0.94	0.189	0.95	9.55	30.00	0.243	0.763	0.32
8	2:48	0.96	0.295	0.97	8.59	30.00	0.124	0.434	0.29
9	3:06	0.98	0.326	0.99	11.58	30.00	0.311	0.805	0.39
10	4:10	0.98	0.439	0.99	13.11	30.00	0.166	0.381	0.44

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	6:20	0.98	0.667	0.99	5.51	15.00	0.389	1.057	0.37
12	6:54	0.99	0.726	1.00	29.04	75.00	0.035	0.090	0.39
13	7:04	0.99	0.744	1.00	42.81	75.00	0.001	0.001	0.57
14	7:52	0.98	0.828	0.99	6.33	15.00	1.134	2.688	0.42
15	7:42	0.99	0.811	1.00	25.82	75.00	0.024	0.069	0.34
16	9:02	0.99	0.951	1.00	5.43	15.00	0.515	1.423	0.36
17	10:16	0.99	1.081	1.00	5.42	15.00	0.993	2.750	0.36
18	11:00	0.99	1.158	1.00	5.41	15.00	0.537	1.488	0.36
19	11:34	0.99	1.218	1.00	5.11	15.00	1.024	3.007	0.34
20	12:18	0.99	1.295	1.00	4.65	15.00	0.430	1.387	0.31
21	12:12	0.99	0.658	1.00	22.99	75.00	0.005	0.016	0.31
22	13:32	0.99	0.730	1.00	5.37	15.00	0.311	0.868	0.36
23	13:32	0.99	0.730	1.00	5.32	15.00	0.047	0.131	0.35
24	14:06	0.99	0.761	1.00	13.05	30.00	0.025	0.058	0.43
25	14:28	0.99	0.781	1.00	4.76	15.00	0.260	0.819	0.32
26	15:48	0.99	0.853	1.00	5.43	15.00	0.209	0.576	0.36
27	16:04	0.99	0.867	1.00	8.11	24.30	0.164	0.492	0.33
28	16:38	0.99	0.897	1.00	5.44	15.00	0.319	0.881	0.36
29	17:14	0.99	0.930	1.00	4.29	15.00	0.206	0.721	0.29
30	17:22	0.99	0.937	1.00	4.56	15.00	0.118	0.388	0.30
31	17:10	0.99	0.926	1.00	5.50	15.00	0.537	1.466	0.37
32	17:22	0.99	0.937	1.00	1.72	5.70	0.403	1.336	0.30
33	18:32	0.99	1.000	1.00	11.42	15.00	0.008	0.010	0.76
34	19:56	0.99	1.076	1.00	4.16	15.00	0.139	0.501	0.28
35	20:24	0.99	0.905	1.00	10.18	30.00	0.134	0.394	0.34
36	21:58	0.99	0.975	1.00	9.50	30.00	0.078	0.246	0.32
37	22:18	0.99	0.990	1.00	6.05	15.00	0.532	1.318	0.40
38	22:14	0.99	0.987	1.00	4.75	15.00	0.162	0.510	0.32
39	23:36	0.99	1.047	1.00	5.83	15.00	0.620	1.595	0.39
40	24:46	0.99	1.099	1.00	5.74	15.00	0.851	2.223	0.38
41	26:42	0.99	1.185	1.00	5.62	15.00	0.410	1.095	0.37
42	30:38	0.99	1.359	1.00	5.23	15.00	0.632	1.815	0.35
43	30:56	0.99	1.373	1.00	5.57	15.00	0.449	1.211	0.37
44	31:54	0.99	1.416	1.00	5.45	15.00	0.416	1.146	0.36

PROCEDURE: TCA DIAGNOSTIC REPORT 5/25/93 14:21:04
DATA FILE: IC100525
REFERENCE: VP11
NAME LIST: VP INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: VP_IS

< ---- STANDARDS ----- >				< --- PLUS UNKNOWNS --- >				< - LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	3	1	31	6	6	1	47	VP_IS/VP_SURR
3	3	1	31	12	11	4	133	VP_IS/VP_CMPDS1
3	3	1	31	12	11	1	49	VP_IS/VP_CMPDS2
3	3	1	31	12	11	1	49	VP_IS/VP_CMPDS3
3	3	1	31	14	11	1	40	VP_IS/VP_CMPDS4

44 COMPOUNDS PROCESSED, 38 FOUND

< COMPOUND >			< ---------- SEARCH ---------- >					< SAT >		< ------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	VP	1	282	283	283	.	1	975	.	128	283	.	1
2	VP	2	552	554	554	.	1	994	.	77	554	.	1
3	VP	3	671	674	674	.	1	992	.	55	674	.	1
4	VP	4	362	364	364	.	1	986	.	65	364	.	1
5	VP	5	506	508	508	.	1	975	.	84	508	.	1
6	VP	6	698	701	700	-1	1	995	.	98	700	.	1
7	VP	7	51	52	52	.	2	988	.	50	52	.	1
8	VP	8	81	82	82	.	2	999	.	94	82	.	1
9	VP	9	91	92	92	.	1	997	.	62	92	.	1
10	VP	10	123	124	124	.	1	996	.	64	123	-1	1
11	VP	11	187	188	188	.	1	983	.	84	188	.	1
12	VP	12	-205	207	.	.	.	.	.	43	206	.	1
13	VP	13	207	209	212	3	1	601	.	56	212	.	1
14	VP	14	232	234	234	.	1	999	.	76	234	.	1
15	VP	15	230	232	230	-2	1	979	.	53	230	.	1
16	VP	16	268	269	269	.	1	966	.	96	269	.	1
17	VP	17	305	306	306	.	1	966	.	63	306	.	1
18	VP	18	327	328	329	1	1	960	.	96	329	.	1
19	VP	19	344	345	345	.	1	953	.	83	345	.	1
20	VP	20	365	366	367	1	1	954	.	62	367	.	1
21	VP	21	363	364	365	1	1	999	.	72	365	.	1
22	VP	22	403	405	404	-1	1	950	.	97	404	.	1
23	VP	23	403	405	404	-1	1	975	.	117	404	.	1
24	VP	24	-420	422	.	.	.	.	.	43	422	.	1
25	VP	25	431	432	432	.	1	971	.	83	432	.	1
26	VP	26	471	472	472	.	1	982	.	63	472	.	1
27	VP	27	479	480	480	.	1	973	.	75	480	.	1
28	VP	28	496	498	497	-1	1	954	.	130	497	.	1
29	VP	29	514	516	515	-1	1	950	.	129	515	.	1
30	VP	30	517	519	519	.	1	996	.	97	519	.	1
31	VP	31	511	513	513	.	1	992	.	78	513	.	1
32	VP	32	516	518	518	.	1	933	.	75	519	1	1
33	VP	33	-554	556	.	.	.	.	.	63	554	.	1
34	VP	34	594	596	596	.	1	953	.	173	596	.	1
35	VP	35	608	610	610	.	1	998	.	43	610	.	1
36	VP	36	-653	655	.	.	.	.	.	43	657	.	1
37	VP	37	665	667	.	.	.	.	.	164	667	.	1
38	VP	38	664	666	.	.	.	.	.	83	665	.	1
39	VP	39	704	707	706	-1	1	995	.	92	706	.	1
40	VP	40	738	741	741	.	1	987	.	112	740	-1	1
41	VP	41	795	798	798	.	1	996	.	106	798	.	1
42	VP	42	912	916	916	.	1	995	.	104	915	-1	1
43	VP	44	919	923	922	-1	1	996	.	106	923	1	1
44	VP	45	947	951	951	.	1	995	.	106	952	1	1

Quantitation Report File: IC100525

Data: IC100525.TI
05/25/93 13:36:00
Sample: CLP,1187,,IC100525,L,W,,V,IC10
Conds.: 45' (3 MIN) TO 220' @ 8'/MIN
Formula: Instrument: INCOS1 Weight: 0.000
Submitted by: Analyst: ZAR Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C040	CARBON DISULFIDE	
15	C043	ACRYLONITRILE	
16	C045	1,1-DICHLOROETHENE	
17	C050	1,1-DICHLOROETHANE	
18	C053	1,2-DICHLOROETHENE (TOTAL)	
19	C060	CHLOROFORM	
20	C065	1,2-DICHLOROETHANE	
21	C110	2-BUTANONE	
22	C115	1,1,1-TRICHLOROETHANE	
23	C120	CARBON TETRACHLORIDE	
24	C125	VINYL ACETATE	
25	C130	BROMODICHLOROMETHANE	
26	C140	1,2-DICHLOROPROPANE	
27	C143	CIS-1,3-DICHLOROPROPENE	
28	C150	TRICHLOROETHENE	
29	C155	DIBROMOCHLOROMETHANE	
30	C160	1,1,2-TRICHLOROETHANE	
31	C165	BENZENE	
32	C172	TRANS-1,3-DICHLOROPROPENE	
33	C175	2-CHLOROETHYLVINYL ETHER	
34	C180	BROMOFORM	
35	C205	4-METHYL-2-PENTANONE	
36	C210	2-HEXANONE	
37	C220	TETRACHLOROETHENE	
38	C225	1,1,2,2-TETRACHLOROETHANE	
39	C230	TOLUENE	
40	C235	CHLOROBENZENE	
41	C240	ETHYL BENZENE	
42	C245	STYRENE	
43	C260	M-XYLENE	
44	C270	O-&/OR P-XYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	283	9:26	1	1.000	A BB	96805.	10.000	UG/L	2.27
2	77	554	18:28	2	1.000	A BB	280927.	10.000	UG/L	2.27
3	55	674	22:28	3	1.000	A BB	168064.	10.000	UG/L	2.27
4	65	364	12:08	1	1.286	A BB	113905.	10.628	UG/L	2.42
5	84	508	16:56	2	0.917	A VB	378243.	9.178	UG/L	2.09
6	98	700	23:20	3	1.039	A BB	393382.	8.635	UG/L	1.96
7	50	52	1:44	1	0.184	A VB	166696.	17.063	UG/L	3.88
8	94	82	2:44	1	0.290	A VB	96548.	15.328	UG/L	3.49
9	62	92	3:04	1	0.325	A BB	222220.	22.770	UG/L	5.18
10	64	123	4:06	1	0.435	A BB	109778.	14.136	UG/L	3.22
11	84	188	6:16	1	0.664	A BB	58557.	4.433	UG/L	1.01
12	43	206	6:52	1	0.728	A BV	29482.	36.455	UG/L	8.29
13	56	212	7:04	1	0.749	A BV	447.	39.364	UG/L	8.95
14	76	234	7:48	1	0.827	A BB	181005.	3.993	UG/L	0.91
15	53	230	7:40	1	0.813	A BV	17239.	27.563	UG/L	6.27
16	96	269	8:58	1	0.951	A BB	84016.	4.250	UG/L	0.97
17	63	306	10:12	1	1.081	A BB	178048.	4.734	UG/L	1.08
18	96	329	10:58	1	1.163	A BB	100025.	4.822	UG/L	1.10
19	83	345	11:30	1	1.219	A BB	187405.	5.041	UG/L	1.15
20	62	367	12:14	1	1.297	A BB	75622.	5.625	UG/L	1.28
21	72	365	12:10	2	0.659	A BB	11576.	29.020	UG/L	6.60
22	97	404	13:28	2	0.729	A BB	160954.	5.035	UG/L	1.15
23	117	404	13:28	2	0.729	A BV	24626.	5.034	UG/L	1.15
24	43	422	14:04	2	0.762	A VB	22821.	12.677	UG/L	2.88
25	83	432	14:24	2	0.780	A BB	128497.	5.237	UG/L	1.19
26	63	472	15:44	2	0.852	A BB	104058.	4.994	UG/L	1.14
27	75	480	16:00	2	0.866	A BB	132181.	8.701	UG/L	1.98
28	130	497	16:34	2	0.897	A BB	167286.	5.285	UG/L	1.20
29	129	515	17:10	2	0.930	A BB	105868.	6.089	UG/L	1.38
30	97	519	17:18	2	0.937	A BB	57024.	5.499	UG/L	1.25
31	78	513	17:06	2	0.926	A BB	271108.	4.798	UG/L	1.09
32	75	519	17:18	2	0.937	A BB	77792.	2.111	UG/L	0.48
33	63	554	18:28	2	1.000	A BB	3427.	15.172	UG/L	3.45
34	173	596	19:52	2	1.076	A BB	72705.	6.764	UG/L	1.54
35	43	610	20:20	3	0.905	A BB	76391.	10.821	UG/L	2.46
36	43	657	21:54	3	0.975	A BB	51958.	11.630	UG/L	2.65
37	164	667	22:14	3	0.990	A BB	178711.	5.077	UG/L	1.15
38	83	665	22:10	3	0.987	A BB	45388.	4.712	UG/L	1.07
39	92	706	23:32	3	1.047	A BB	197894.	4.496	UG/L	1.02
40	112	740	24:40	3	1.098	A BB	265417.	4.645	UG/L	1.06
41	106	798	26:36	3	1.184	A BB	134615.	4.453	UG/L	1.01
42	104	915	30:30	3	1.358	A BB	206711.	4.655	UG/L	1.06
43	106	923	30:46	3	1.369	A BB	144328.	4.448	UG/L	1.01
44	106	952	31:44	3	1.412	A BB	130341.	4.300	UG/L	0.98

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:24	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	18:24	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	22:24	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:04	1.01	1.284	1.00	10.63	10.00	1.177	1.107	1.06
5	16:52	1.00	0.917	1.00	9.18	10.00	1.346	1.467	0.92
6	23:16	1.00	1.039	1.00	8.64	10.00	2.341	2.711	0.86
7	1:40	1.04	0.177	1.04	17.06	30.00	0.574	1.009	0.57
8	2:38	1.04	0.280	1.03	15.33	30.00	0.332	0.651	0.51
9	3:02	1.01	0.323	1.01	22.77	30.00	0.765	1.008	0.76
10	4:06	1.00	0.436	1.00	14.14	30.00	0.378	0.802	0.47

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	6:14	1.01	0.663	1.00	4.43	15.00	0.403	1.364	0.30
12	6:48	1.01	0.723	1.01	36.45	75.00	0.041	0.084	0.49
13	7:18	0.97	0.777	0.96	39.36	75.00	0.001	0.001	0.52
14	7:44	1.01	0.823	1.01	3.99	15.00	1.247	4.683	0.27
15	7:36	1.01	0.809	1.01	27.56	75.00	0.024	0.065	0.37
16	8:56	1.00	0.950	1.00	4.25	15.00	0.579	2.042	0.28
17	10:10	1.00	1.082	1.00	4.73	15.00	1.226	3.885	0.32
18	10:54	1.01	1.160	1.00	4.82	15.00	0.689	2.143	0.32
19	11:28	1.00	1.220	1.00	5.04	15.00	1.291	3.840	0.34
20	12:12	1.00	1.298	1.00	5.63	15.00	0.521	1.389	0.38
21	12:06	1.01	0.658	1.00	29.02	75.00	0.005	0.014	0.39
22	13:26	1.00	0.730	1.00	5.03	15.00	0.382	1.138	0.34
23	13:26	1.00	0.730	1.00	5.03	15.00	0.058	0.174	0.34
24	14:00	1.00	0.761	1.00	12.68	30.00	0.027	0.064	0.42
25	14:22	1.00	0.781	1.00	5.24	15.00	0.305	0.873	0.35
26	15:40	1.00	0.851	1.00	4.99	15.00	0.247	0.742	0.33
27	15:56	1.00	0.866	1.00	8.70	24.30	0.194	0.541	0.36
28	16:30	1.00	0.897	1.00	5.29	15.00	0.397	1.127	0.35
29	17:08	1.00	0.931	1.00	6.09	15.00	0.251	0.619	0.41
30	17:14	1.00	0.937	1.00	5.50	15.00	0.135	0.369	0.37
31	17:02	1.00	0.926	1.00	4.80	15.00	0.643	2.011	0.32
32	17:14	1.00	0.937	1.00	2.11	5.70	0.486	1.311	0.37
33	18:26	1.00	1.002	1.00	15.17	15.00	0.008	0.008	1.01
34	19:48	1.00	1.076	1.00	6.76	15.00	0.173	0.383	0.45
35	20:16	1.00	0.905	1.00	10.82	30.00	0.152	0.420	0.36
36	21:50	1.00	0.975	1.00	11.63	30.00	0.103	0.266	0.39
37	22:10	1.00	0.990	1.00	5.08	15.00	0.709	2.095	0.34
38	22:06	1.00	0.987	1.00	4.71	15.00	0.180	0.573	0.31
39	23:28	1.00	1.048	1.00	4.50	15.00	0.785	2.619	0.30
40	24:36	1.00	1.098	1.00	4.64	15.00	1.053	3.400	0.31
41	26:30	1.00	1.183	1.00	4.45	15.00	0.534	1.799	0.30
42	30:20	1.01	1.354	1.00	4.65	15.00	0.820	2.642	0.31
43	30:36	1.01	1.366	1.00	4.45	15.00	0.573	1.931	0.30
44	31:32	1.01	1.408	1.00	4.30	15.00	0.517	1.804	0.29

TCA FINISHED, 38 FOUND
FINISHED AT: 5/25/93 14:27:07

PROCEDURE: TCA DIAGNOSTIC REPORT 5/25/93 15:14:53
DATA FILE: IC200525
REFERENCE: VP11
NAME LIST: VP INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: VP_IS

< ---- STANDARDS ----- >				< --- PLUS UNKNOWNS --- >				< - LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	3	3	0	6	6	1	0	VP_IS/VP_SURR
3	3	1	0	12	12	4	122	VP_IS/VP_CMPDS1
3	3	1	0	12	12	1	47	VP_IS/VP_CMPDS2
3	3	1	0	12	12	1	47	VP_IS/VP_CMPDS3
3	3	1	0	14	13	1	80	VP_IS/VP_CMPDS4

44 COMPOUNDS PROCESSED, 43 FOUND

< COMPOUND >			< ---------- SEARCH ---------- >					< SAT >		< ------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	VP	1	283	284	284	.	1	972	.	128	284	.	1
2	VP	2	554	555	555	.	3	995	.	77	555	.	1
3	VP	3	674	675	675	.	1	995	.	55	675	.	1
4	VP	4	364	365	365	.	1	974	.	65	365	.	1
5	VP	5	508	509	509	.	1	979	.	84	509	.	1
6	VP	6	700	701	701	.	1	997	.	98	701	.	1
7	VP	7	52	52	52	.	2	988	.	50	52	.	1
8	VP	8	82	82	83	1	1	1000	.	94	82	-1	1
9	VP	9	92	92	92	.	2	996	.	62	93	1	1
10	VP	10	124	124	125	1	1	998	.	64	125	.	1
11	VP	11	188	188	189	1	1	984	.	84	189	.	1
12	VP	12	-207	207	206	-1	1	939	.	43	206	.	1
13	VP	13	212	212	209	-3	1	637	.	56	211	2	1
14	VP	14	234	234	234	.	1	999	.	76	234	.	1
15	VP	15	230	230	230	.	1	993	.	53	229	-1	1
16	VP	16	269	270	270	.	1	968	.	96	270	.	1
17	VP	17	306	307	307	.	1	964	.	63	307	.	1
18	VP	18	329	330	329	-1	1	958	.	96	329	.	1
19	VP	19	345	346	346	.	1	959	.	83	346	.	1
20	VP	20	367	368	368	.	1	967	.	62	368	.	1
21	VP	21	365	366	365	-1	1	999	.	72	365	.	1
22	VP	22	404	405	405	.	1	950	.	97	405	.	1
23	VP	23	404	405	405	.	1	977	.	117	405	.	1
24	VP	24	-422	423	422	-1	1	932	.	43	422	.	1
25	VP	25	432	433	433	.	1	971	.	83	433	.	1
26	VP	26	472	473	473	.	1	980	.	63	473	.	1
27	VP	27	480	481	481	.	1	977	.	75	481	.	1
28	VP	28	497	498	498	.	1	952	.	130	498	.	1
29	VP	29	515	516	516	.	1	961	.	129	516	.	1
30	VP	30	519	520	519	-1	1	996	.	97	519	.	1
31	VP	31	513	514	513	-1	1	991	.	78	513	.	1
32	VP	32	518	519	519	.	1	931	.	75	519	.	1
33	VP	33	-556	557	556	-1	1	929	.	63	555	-1	1
34	VP	34	596	597	596	-1	1	952	.	173	596	.	1
35	VP	35	610	611	610	-1	1	988	.	43	610	.	1
36	VP	36	-655	656	657	1	1	834	.	43	657	.	1
37	VP	37	-667	668	667	-1	1	901	.	164	667	.	1
38	VP	38	-666	667	.	.	.	.	.	83	666	.	1
39	VP	39	706	707	707	.	1	995	.	92	707	.	1
40	VP	40	741	742	741	-1	1	985	.	112	741	.	1
41	VP	41	798	799	798	-1	1	995	.	106	798	.	1
42	VP	42	916	917	917	.	1	995	.	104	916	-1	1
43	VP	44	922	923	924	1	1	995	.	106	923	-1	1
44	VP	45	951	952	953	1	1	997	.	106	953	.	1

Quantitation Report File: IC200525

Data: IC200525.TI
05/25/93 14:29:00
Sample: CLP,1187,,IC200525,L,W,,V,IC20
Conds.: 45' (3 MIN) TO 220' @ 8'/MIN
Formula: Instrument: INCOS1 Weight: 0.000
Submitted by: Analyst: ZAR Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C040	CARBON DISULFIDE	
15	C043	ACRYLONITRILE	
16	C045	1,1-DICHLOROETHENE	
17	C050	1,1-DICHLOROETHANE	
18	C053	1,2-DICHLOROETHENE (TOTAL)	
19	C060	CHLOROFORM	
20	C065	1,2-DICHLOROETHANE	
21	C110	2-BUTANONE	
22	C115	1,1,1-TRICHLOROETHANE	
23	C120	CARBON TETRACHLORIDE	
24	C125	VINYL ACETATE	
25	C130	BROMODICHLOROMETHANE	
26	C140	1,2-DICHLOROPROPANE	
27	C143	CIS-1,3-DICHLOROPROPENE	
28	C150	TRICHLOROETHENE	
29	C155	DIBROMOCHLOROMETHANE	
30	C160	1,1,2-TRICHLOROETHANE	
31	C165	BENZENE	
32	C172	TRANS-1,3-DICHLOROPROPENE	
33	C175	2-CHLOROETHYLVINYL ETHER	
34	C180	BROMOFORM	
35	C205	4-METHYL-2-PENTANONE	
36	C210	2-HEXANONE	
37	C220	TETRACHLOROETHENE	
38	C225	1,1,2,2-TETRACHLOROETHANE	
39	C230	TOLUENE	
40	C235	CHLOROBENZENE	
41	C240	ETHYL BENZENE	
42	C245	STYRENE	
43	C260	M-XYLENE	
44	C270	O-&/OR P-XYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	284	9:28	1	1.000	A BB	118798.	10.000	UG/L	0.48
2	77	555	18:30	2	1.000	A BB	350525.	10.000	UG/L	0.48
3	55	675	22:30	3	1.000	A BB	213920.	10.000	UG/L	0.48
4	65	365	12:10	1	1.285	A BB	141272.	10.106	UG/L	0.49
5	84	509	16:58	2	0.917	A VB	450032.	9.536	UG/L	0.46
6	98	701	23:22	3	1.039	A BB	458027.	9.147	UG/L	0.44
7	50	52	1:44	1	0.183	A VB	286504.	28.011	UG/L	1.36
8	94	82	2:44	1	0.289	A VB	179504.	30.300	UG/L	1.47
9	62	93	3:06	1	0.327	A BB	352592.	25.859	UG/L	1.25
10	64	125	4.10	1	0.440	A BB	172959.	25.677	UG/L	1.24
11	84	189	6:18	1	0.665	A BB	242582.	33.757	UG/L	1.63
12	43	206	6:52	1	0.725	A BB	106934.	147.780	UG/L	7.15
13	56	211	7:02	1	0.743	A BV	2411.	219.737	UG/L	10.64
14	76	234	7:48	1	0.824	A BB	749892.	33.760	UG/L	1.63
15	53	229	7:38	1	0.806	A BV	90297.	213.418	UG/L	10.33
16	96	270	9:00	1	0.951	A BB	379128.	36.772	UG/L	1.78
17	63	307	10:14	1	1.081	A BB	764445.	34.986	UG/L	1.69
18	96	329	10:58	1	1.158	A BB	412445.	33.601	UG/L	1.63
19	83	346	11:32	1	1.218	A BB	792944.	34.479	UG/L	1.67
20	62	368	12:16	1	1.296	A BB	342402.	36.896	UG/L	1.79
21	72	365	12:10	2	0.658	A BB	51396.	177.909	UG/L	8.61
22	97	405	13.30	2	0.730	A BB	665511.	33.138	UG/L	1.60
23	117	405	13:30	2	0.730	A BV	103646.	33.731	UG/L	1.63
24	43	422	14:04	2	0.760	A BB	79787.	56.040	UG/L	2.71
25	83	433	14:26	2	0.780	A BB	603078.	37.615	UG/L	1.82
26	63	473	15:46	2	0.852	A BB	470110.	36.208	UG/L	1.75
27	75	481	16:02	2	0.867	A BB	628949.	61.778	UG/L	2.99
28	130	498	16:36	2	0.897	A BB	714368.	34.224	UG/L	1.66
29	129	516	17:12	2	0.930	A BB	509334.	38.558	UG/L	1.87
30	97	519	17:18	2	0.935	A BB	282195.	39.661	UG/L	1.92
31	78	513	17:06	2	0.924	A BB	1220360.	36.076	UG/L	1.75
32	75	519	17:18	2	0.935	A BB	383876.	15.029	UG/L	0.73
33	63	555	18:30	2	1.000	A BB	4531.	10.596	UG/L	0.51
34	173	596	19:52	2	1.074	A BB	363696.	40.091	UG/L	1.94
35	43	610	20.20	3	0.904	A BB	360742.	74.200	UG/L	3.59
36	43	657	21:54	3	0.973	A BB	220158.	66.578	UG/L	3.22
37	164	667	22:14	3	0.988	A BB	720354.	31.668	UG/L	1.53
38	83	666	22:12	3	0.987	A BB	235149.	40.703	UG/L	1.97
39	92	707	23:34	3	1.047	A BB	865615.	34.365	UG/L	1.66
40	112	741	24:42	3	1.098	A BB	1184750.	35.069	UG/L	1.70
41	106	798	26:36	3	1.182	A BB	583892.	34.077	UG/L	1.65
42	104	916	30:32	3	1.357	A BB	937984.	35.726	UG/L	1.73
43	106	923	30:46	3	1.367	A BB	624400.	33.989	UG/L	1.65
44	106	953	31:46	3	1.412	A BB	582960.	35.138	UG/L	1.70

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:26	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	18.28	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	22:28	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12.08	1.00	1.286	1.00	10.11	10.00	1.189	1.177	1.01
5	16:56	1.00	0.917	1.00	9.54	10.00	1.284	1.346	0.95
6	23:20	1.00	1.039	1.00	9.15	10.00	2.141	2.341	0.91
7	1:44	1.00	0.184	1.00	28.01	20.00	1.206	0.861	1.40
8	2.44	1.00	0.290	1.00	30.30	20.00	0.756	0.499	1.52
9	3:04	1.01	0.325	1.01	25.86	20.00	1.484	1.148	1.29
10	4.06	1.02	0.435	1.01	25.68	20.00	0.728	0.567	1.28

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	6:16	1.01	0.664	1.00	33.76	10.00	2.042	0.605	3.38
12	6:52	1.00	0.728	1.00	147.78	50.00	0.180	0.061	2.96
13	7:04	1.00	0.749	0.99	219.74	50.00	0.004	0.001	4.39
14	7:48	1.00	0.827	1.00	33.76	10.00	6.312	1.870	3.38
15	7:40	1.00	0.813	0.99	213.42	50.00	0.152	0.036	4.27
16	8:58	1.00	0.951	1.00	36.77	10.00	3.191	0.868	3.68
17	10:12	1.00	1.081	1.00	34.99	10.00	6.435	1.839	3.50
18	10:58	1.00	1.163	1.00	33.60	10.00	3.472	1.033	3.36
19	11:30	1.00	1.219	1.00	34.48	10.00	6.675	1.936	3.45
20	12:14	1.00	1.297	1.00	36.90	10.00	2.882	0.781	3.69
21	12:10	1.00	0.659	1.00	177.91	50.00	0.029	0.008	3.56
22	13:28	1.00	0.729	1.00	33.14	10.00	1.899	0.573	3.31
23	13:28	1.00	0.729	1.00	33.73	10.00	0.296	0.088	3.37
24	14:04	1.00	0.762	1.00	56.04	20.00	0.114	0.041	2.80
25	14:24	1.00	0.780	1.00	37.61	10.00	1.720	0.457	3.76
26	15:44	1.00	0.852	1.00	36.21	10.00	1.341	0.370	3.62
27	16:00	1.00	0.866	1.00	61.78	16.20	1.108	0.290	3.81
28	16:34	1.00	0.897	1.00	34.22	10.00	2.038	0.595	3.42
29	17:10	1.00	0.930	1.00	38.56	10.00	1.453	0.377	3.86
30	17:18	1.00	0.937	1.00	39.66	10.00	0.805	0.203	3.97
31	17:06	1.00	0.926	1.00	36.08	10.00	3.482	0.965	3.61
32	17:18	1.00	0.937	1.00	15.03	3.80	2.882	0.729	3.95
33	18:28	1.00	1.000	1.00	10.60	10.00	0.013	0.012	1.06
34	19:52	1.00	1.076	1.00	40.09	10.00	1.038	0.259	4.01
35	20:20	1.00	0.905	1.00	74.20	20.00	0.843	0.227	3.71
36	21:54	1.00	0.975	1.00	66.58	20.00	0.515	0.155	3.33
37	22:14	1.00	0.990	1.00	31.67	10.00	3.367	1.063	3.17
38	22:10	1.00	0.987	1.00	40.70	10.00	1.099	0.270	4.07
39	23:32	1.00	1.047	1.00	34.36	10.00	4.046	1.177	3.44
40	24.40	1.00	1.098	1.00	35.07	10.00	5.538	1.579	3.51
41	26:36	1.00	1.184	1.00	34.08	10.00	2.729	0.801	3.41
42	30.30	1.00	1.358	1.00	35.73	10.00	4.394	1.230	3.57
43	30:46	1.00	1.369	1.00	33.99	10.00	2.919	0.859	3.40
44	31.44	1.00	1.412	1.00	35.14	10.00	2.725	0.776	3.51

TCA FINISHED, 43 FOUND
FINISHED AT: 5/25/93 15:21:07

PROCEDURE: TCA DIAGNOSTIC REPORT 5/25/93 16:56:54
DATA FILE: IC250525
REFERENCE: VP11
NAME LIST: VP INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: VP_IS

< ---- STANDARDS ----- >				< --- PLUS UNKNOWNS --- >				< - LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	3	3	24	6	6	1	33	VP_IS/VP_SURR
3	3	1	24	12	11	2	341	VP_IS/VP_CMPDS1
3	3	1	24	12	12	1	29	VP_IS/VP_CMPDS2
3	3	1	24	12	12	1	43	VP_IS/VP_CMPDS3
3	3	1	24	14	14	1	46	VP_IS/VP_CMPDS4

44 COMPOUNDS PROCESSED, 43 FOUND

< COMPOUND >			< ---------- SEARCH ---------- >					< SAT >		< ------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	VP	1	284	286	286	.	1	976	.	128	285	-1	1
2	VP	2	555	556	556	.	3	995	.	77	556	.	1
3	VP	3	675	676	676	.	1	995	.	55	676	.	1
4	VP	4	365	366	366	.	1	979	.	65	366	.	1
5	VP	5	509	510	510	.	1	981	.	84	510	.	1
6	VP	6	701	702	702	.	1	1000	.	98	702	.	1
7	VP	7	52	55	.	.	.	.	.	50	.	.	.
8	VP	8	83	86	84	-2	1	998	.	94	84	.	1
9	VP	9	92	95	94	-1	2	999	.	62	94	.	1
10	VP	10	125	128	126	-2	1	1000	.	64	126	.	1
11	VP	11	189	191	190	-1	1	986	.	84	190	.	1
12	VP	12	206	208	208	.	1	948	.	43	208	.	1
13	VP	13	209	211	221	10	1	714	.	56	.	.	.
14	VP	14	234	236	235	-1	1	1000	.	76	235	.	1
15	VP	15	230	232	231	-1	1	995	.	53	230	-1	1
16	VP	16	270	271	271	.	1	971	.	96	271	.	1
17	VP	17	307	308	308	.	1	964	.	63	308	.	1
18	VP	18	329	330	330	.	1	962	.	96	330	.	1
19	VP	19	346	347	347	.	1	959	.	83	347	.	1
20	VP	20	368	369	369	.	1	962	.	62	369	.	1
21	VP	21	365	366	366	.	1	996	.	72	366		1
22	VP	22	405	406	406	.	1	955	.	97	406	.	1
23	VP	23	405	406	406	.	1	984	.	117	406	.	1
24	VP	24	422	423	423	.	1	953	.	43	423		1
25	VP	25	433	434	434		1	972	.	83	434	.	1
26	VP	26	473	474	474	.	1	986	.	63	474	.	1
27	VP	27	481	482	482	.	1	975	.	75	482	.	1
28	VP	28	498	499	499	.	1	957	.	130	499	.	1
29	VP	29	516	517	517	.	1	954	.	129	517	.	1
30	VP	30	519	520	521	1	1	996	.	97	521	.	1
31	VP	31	513	514	515	1	1	989	.	78	514	-1	1
32	VP	32	519	520	520	.	1	938	.	75	521	1	1
33	VP	33	556	557	557		1	928	.	63	557	.	1
34	VP	34	596	597	598	1	1	962	.	173	598	.	1
35	VP	35	610	611	612	1	1	995	.	43	612		1
36	VP	36	657	658	658		1	951	.	43	658	.	1
37	VP	37	667	668	669	1	1	910	.	164	669	.	1
38	VP	38	-667	668	668	.	1	020		83	667	-1	1
39	VP	39	707	708	708	.	1	997	.	92	708	.	1
40	VP	40	741	742	742	.	1	984	.	112	742	.	1
41	VP	41	798	799	800	1	1	997		106	800	.	1
42	VP	42	917	918	918	.	1	997	.	104	917	-1	1
43	VP	44	924	925	925	.	1	996	.	106	925		1
44	VP	45	953	954	954		1	1000	.	106	954	.	1

Quantitation Report File: IC250525

Data: IC250525.TI
05/25/93 16:05:00
Sample: CLP,1187,,IC250525,L,W.,V,IC25
Conds.. 45' (3 MIN) TO 220' @ 8'/MIN
Formula: Instrument: INCOS1 Weight: 0.000
Submitted by: Analyst: ZAR Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C040	CARBON DISULFIDE	
15	C043	ACRYLONITRILE	
16	C045	1,1-DICHLOROETHENE	
17	C050	1,1-DICHLOROETHANE	
18	C053	1,2-DICHLOROETHENE (TOTAL)	
19	C060	CHLOROFORM	
20	C065	1,2-DICHLOROETHANE	
21	C110	2-BUTANONE	
22	C115	1,1,1-TRICHLOROETHANE	
23	C120	CARBON TETRACHLORIDE	
24	C125	VINYL ACETATE	
25	C130	BROMODICHLOROMETHANE	
26	C140	1,2-DICHLOROPROPANE	
27	C143	CIS-1,3-DICHLOROPROPENE	
28	C150	TRICHLOROETHENE	
29	C155	DIBROMOCHLOROMETHANE	
30	C160	1,1,2-TRICHLOROETHANE	
31	C165	BENZENE	
32	C172	TRANS-1,3-DICHLOROPROPENE	
33	C175	2-CHLOROETHYLVINYL ETHER	
34	C180	BROMOFORM	
35	C205	4-METHYL-2-PENTANONE	
36	C210	2-HEXANONE	
37	C220	TETRACHLOROETHENE	
38	C225	1,1,2,2-TETRACHLOROETHANE	
39	C230	TOLUENE	
40	C235	CHLOROBENZENE	
41	C240	ETHYL BENZENE	
42	C245	STYRENE	
43	C260	M-XYLENE	
44	C270	O-&/OR P-XYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	285	9:30	1	1.000	A BB	125812.	10.000	UG/L	0.83
2	77	556	18:32	2	1.000	A BB	385084.	10.000	UG/L	0.83
3	55	676	22:32	3	1.000	A BB	249366.	10.000	UG/L	0.83
4	65	366	12:12	1	1.284	A BB	161701.	10.808	UG/L	0.90
5	84	510	17:00	2	0.917	A VB	479009.	9.689	UG/L	0.80
6	98	702	23:24	3	1.038	A BB	503237.	9.425	UG/L	0.78
7	NOT	FOUND								
8	94	84	2:48	1	0.295	A VB	267176.	56.217	UG/L	4.66
9	62	94	3:08	1	0.330	A BB	542004.	58.060	UG/L	4.81
10	64	126	4:12	1	0.442	A BB	276992.	60.488	UG/L	5.01
11	84	190	6:20	1	0.667	A BB	269824.	21.006	UG/L	1.74
12	43	208	6:56	1	0.730	A BB	126251.	111.481	UG/L	9.23
13	NOT	FOUND								
14	76	235	7:50	1	0.825	A BB	810658.	20.415	UG/L	1.69
15	53	230	7:40	1	0.807	A BV	102076.	106.742	UG/L	8.84
16	96	271	9:02	1	0.951	A BB	396496.	19.750	UG/L	1.64
17	63	308	10:16	1	1.081	A BB	799248.	19.745	UG/L	1.64
18	96	330	11:00	1	1.158	A BB	423284.	19.381	UG/L	1.61
19	83	347	11:34	1	1.218	A BB	859842.	20.478	UG/L	1.70
20	62	369	12:18	1	1.295	A BB	388186.	21.410	UG/L	1.77
21	72	366	12:12	2	0.658	A BB	57512.	101.858	UG/L	8.44
22	97	406	13:32	2	0.730	A BB	725237.	19.839	UG/L	1.64
23	117	406	13:32	2	0.730	A BV	105643.	18.556	UG/L	1.54
24	43	423	14:06	2	0.761	A BB	107948.	49.261	UG/L	4.08
25	83	434	14:28	2	0.781	A BB	666559.	20.121	UG/L	1.67
26	63	474	15:48	2	0.853	A BB	503781.	19.509	UG/L	1.62
27	75	482	16:04	2	0.867	A BB	672850.	31.551	UG/L	2.61
28	130	499	16:38	2	0.897	A BB	723735.	18.444	UG/L	1.53
29	129	517	17:14	2	0.930	A BB	551819.	19.724	UG/L	1.63
30	97	521	17:22	2	0.937	A BB	311399.	20.089	UG/L	1.66
31	78	514	17:08	2	0.924	A BB	1286770.	19.196	UG/L	1.59
32	75	521	17:22	2	0.937	A BB	421238.	7.591	UG/L	0.63
33	63	557	18:34	2	1.002	A BB	4472.	17.970	UG/L	1.49
34	173	598	19:56	2	1.076	A BB	389901.	19.517	UG/L	1.62
35	43	612	20:24	3	0.905	A BB	418699.	39.827	UG/L	3.30
36	43	658	21:56	3	0.973	A BB	254949.	39.737	UG/L	3.29
37	164	669	22:18	3	0.990	A BB	726459.	17.302	UG/L	1.43
38	83	667	22:14	3	0.987	A BB	274275.	20.012	UG/L	1.66
39	92	708	23:36	3	1.047	A BB	926681.	18.367	UG/L	1.52
40	112	742	24:44	3	1.098	A BB	1256080.	18.190	UG/L	1.51
41	106	800	26:40	3	1.183	A BB	641076.	18.837	UG/L	1.56
42	104	917	30:34	3	1.357	A BB	1004480.	18.334	UG/L	1.52
43	106	925	30:50	3	1.368	A BB	699583.	19.223	UG/L	1.59
44	106	954	31:48	3	1.411	A BB	648293.	19.080	UG/L	1.58

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:28	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	18:30	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	22:30	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:10	1.00	1.285	1.00	10.81	10.00	1.285	1.189	1.08
5	16:58	1.00	0.917	1.00	9.69	10.00	1.244	1.284	0.97
6	23:22	1.00	1.039	1.00	9.43	10.00	2.018	2.141	0.94
7	1:44		0.183						
8	2:44	1.02	0.289	1.02	56.22	40.00	0.531	0.378	1.41
9	3:06	1.01	0.327	1.01	58.06	40.00	1.077	0.742	1.45
10	4:10	1.01	0.440	1.00	60.49	40.00	0.550	0.364	1.51

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
11	6:18	1.01	0.665	1.00	21.01	20.00	1.072	1.021	1.05
12	6:52	1.01	0.725	1.01	111.48	100.00	0.100	0.090	1.11
13	7:02		0.743						
14	7:48	1.00	0.824	1.00	20.42	20.00	3.222	3.156	1.02
15	7:38	1.00	0.806	1.00	106.74	100.00	0.081	0.076	1.07
16	9:00	1.00	0.951	1.00	19.75	20.00	1.576	1.596	0.99
17	10:14	1.00	1.081	1.00	19.74	20.00	3.176	3.217	0.99
18	10:58	1.00	1.158	1.00	19.38	20.00	1.682	1.736	0.97
19	11:32	1.00	1.218	1.00	20.48	20.00	3.417	3.337	1.02
20	12:16	1.00	1.296	1.00	21.41	20.00	1.543	1.441	1.07
21	12:10	1.00	0.658	1.00	101.86	100.00	0.015	0.015	1.02
22	13:30	1.00	0.730	1.00	19.84	20.00	0.942	0.949	0.99
23	13:30	1.00	0.730	1.00	18.56	20.00	0.137	0.148	0.93
24	14:04	1.00	0.760	1.00	49.26	40.00	0.070	0.057	1.23
25	14:26	1.00	0.780	1.00	20.12	20.00	0.865	0.860	1.01
26	15:46	1.00	0.852	1.00	19.51	20.00	0.654	0.671	0.98
27	16:02	1.00	0.867	1.00	31.55	32.40	0.539	0.554	0.97
28	16:36	1.00	0.897	1.00	18.44	20.00	0.940	1.019	0.92
29	17:12	1.00	0.930	1.00	19.72	20.00	0.716	0.727	0.99
30	17:18	1.00	0.935	1.00	20.09	20.00	0.404	0.403	1.00
31	17:06	1.00	0.924	1.00	19.20	20.00	1.671	1.741	0.96
32	17:18	1.00	0.935	1.00	7.59	7.60	1.439	1.441	1.00
33	18:30	1.00	1.000	1.00	17.97	20.00	0.006	0.006	0.90
34	19:52	1.00	1.074	1.00	19.52	20.00	0.506	0.519	0.98
35	20:20	1.00	0.904	1.00	39.83	40.00	0.420	0.422	1.00
36	21:54	1.00	0.973	1.00	39.74	40.00	0.256	0.257	0.99
37	22:14	1.00	0.988	1.00	17.30	20.00	1.457	1.684	0.87
38	22:12	1.00	0.987	1.00	20.01	20.00	0.550	0.550	1.00
39	23:34	1.00	1.047	1.00	18.37	20.00	1.858	2.023	0.92
40	24:42	1.00	1.098	1.00	18.19	20.00	2.519	2.769	0.91
41	26:36	1.00	1.182	1.00	18.84	20.00	1.285	1.365	0.94
42	30:32	1.00	1.357	1.00	18.33	20.00	2.014	2.197	0.92
43	30:46	1.00	1.367	1.00	19.22	20.00	1.403	1.459	0.96
44	31:46	1.00	1.412	1.00	19.08	20.00	1.300	1.363	0.95

TCA FINISHED, 43 FOUND
FINISHED AT: 5/25/93 17:04:07

PROCEDURE: TCA DIAGNOSTIC REPORT 5/25/93 17:47:52
DATA FILE: IC250525B
REFERENCE: VP11
NAME LIST: VP INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: VP_IS

< ---- STANDARDS ----- ><				--- PLUS UNKNOWNS --- ><				- LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	3	4	25	6	6	1	33	VP_IS/VP_SURR
3	3	1	25	12	12	8	292	VP_IS/VP_CMPDS1
3	3	1	25	12	12	1	29	VP_IS/VP_CMPDS2
3	3	1	25	12	12	1	55	VP_IS/VP_CMPDS3
3	3	1	25	14	14	1	46	VP_IS/VP_CMPDS4

44 COMPOUNDS PROCESSED, 44 FOUND

< COMPOUND ><			---------- SEARCH ---------- >< SAT >< ------ CHRO ------- >										
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	VP	1	286	285	285	.	1	979	.	128	285	.	1
2	VP	2	556	556	556	.	4	999	.	77	556	.	1
3	VP	3	676	676	676	.	1	992	.	55	676	.	1
4	VP	4	366	366	366	.	1	967	.	65	366	.	1
5	VP	5	510	510	510	.	1	981	.	84	510	.	1
6	VP	6	702	702	702	.	1	995	.	98	702	.	1
7	VP	7	-55	53	53	.	2	991	.	50	52	-1	1
8	VP	8	84	82	84	2	2	998	.	94	84	.	1
9	VP	9	94	92	93	1	2	999	.	62	93	.	1
10	VP	10	126	124	126	2	1	998	.	64	126	.	1
11	VP	11	190	189	190	1	1	986	.	84	190	.	1
12	VP	12	208	207	207	.	1	955	.	43	207	.	1
13	VP	13	221	220	211	-9	1	645	.	56	211	.	1
14	VP	14	235	234	235	1	1	997	.	76	235	.	1
15	VP	15	231	230	230	.	1	1000	.	53	230	.	1
16	VP	16	271	271	271	.	1	972	.	96	271	.	1
17	VP	17	308	308	308	.	1	967	.	63	308	.	1
18	VP	18	330	330	330	.	1	962	.	96	330	.	1
19	VP	19	347	347	347	.	1	958	.	83	347	.	1
20	VP	20	369	369	369	.	1	965	.	62	369	.	1
21	VP	21	366	366	366	.	1	997	.	72	366	.	1
22	VP	22	406	406	406	.	1	951	.	97	406	.	1
23	VP	23	406	406	406	.	1	988	.	117	406	.	1
24	VP	24	423	423	423	.	1	959	.	43	423	.	1
25	VP	25	434	434	434	.	1	973	.	83	434	.	1
26	VP	26	474	474	474	.	1	986	.	63	474	.	1
27	VP	27	482	482	482	.	1	981	.	75	482	.	1
28	VP	28	499	499	499	.	1	962	.	130	499	.	1
29	VP	29	517	517	517	.	1	959	.	129	517	.	1
30	VP	30	521	521	520	-1	1	995	.	97	520	.	1
31	VP	31	515	515	514	-1	1	990	.	78	514	.	1
32	VP	32	520	520	520	.	1	936	.	75	520	.	1
33	VP	33	557	557	558	1	1	927	.	63	556	-2	1
34	VP	34	598	598	597	-1	1	961	.	173	597	.	1
35	VP	35	612	612	611	-1	1	994	.	43	611	.	1
36	VP	36	658	658	658	.	1	863	.	43	658	.	1
37	VP	37	669	669	668	-1	1	906	.	164	668	.	1
38	VP	38	668	668	668	.	1	811	.	83	667	-1	1
39	VP	39	708	708	708	.	1	998	1	92	708	.	1
40	VP	40	742	742	742	.	1	987	.	112	742	.	1
41	VP	41	800	800	800	.	1	996	1	106	800	.	1
42	VP	42	918	918	918	.	1	995	.	104	918	.	1
43	VP	44	925	926	926	.	1	998	.	106	926	.	1
44	VP	45	954	955	955	.	1	994	.	106	955	.	1

Quantitation Report File: IC250525B

Data: IC250525B.TI
05/25/93 17:06:00
Sample: CLP,1187,,IC250525,L,W,,V,IC25
Conds.: 45' (3 MIN) TO 220' @ 8'/MIN
Formula: Instrument: INCOS1 Weight: 0.000
Submitted by: Analyst: ZAR Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C040	CARBON DISULFIDE	
15	C043	ACRYLONITRILE	
16	C045	1,1-DICHLOROETHENE	
17	C050	1,1-DICHLOROETHANE	
18	C053	1,2-DICHLOROETHENE (TOTAL)	
19	C060	CHLOROFORM	
20	C065	1,2-DICHLOROETHANE	
21	C110	2-BUTANONE	
22	C115	1,1,1-TRICHLOROETHANE	
23	C120	CARBON TETRACHLORIDE	
24	C125	VINYL ACETATE	
25	C130	BROMODICHLOROMETHANE	
26	C140	1,2-DICHLOROPROPANE	
27	C143	CIS-1,3-DICHLOROPROPENE	
28	C150	TRICHLOROETHENE	
29	C155	DIBROMOCHLOROMETHANE	
30	C160	1,1,2-TRICHLOROETHANE	
31	C165	BENZENE	
32	C172	TRANS-1,3-DICHLOROPROPENE	
33	C175	2-CHLOROETHYLVINYL ETHER	
34	C180	BROMOFORM	
35	C205	4-METHYL-2-PENTANONE	
36	C210	2-HEXANONE	
37	C220	TETRACHLOROETHENE	
38	C225	1,1,2,2-TETRACHLOROETHANE	
39	C230	TOLUENE	
40	C235	CHLOROBENZENE	
41	C240	ETHYL BENZENE	
42	C245	STYRENE	
43	C260	M-XYLENE	
44	C270	O-&/OR P-XYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	285	9:30	1	1.000	A BB	115469.	10.000	UG/L	0.65
2	77	556	18:32	2	1.000	A BB	366277.	10.000	UG/L	0.65
3	55	676	22:32	3	1.000	A BB	234276.	10.000	UG/L	0.65
4	65	366	12:12	1	1.284	A BB	156690.	11.411	UG/L	0.74
5	84	510	17:00	2	0.917	A VB	452531.	9.623	UG/L	0.63
6	98	702	23:24	3	1.038	A BB	481125.	9.592	UG/L	0.62
7	50	52	1:44	1	0.182	A VB	377256.	54.188	UG/L	3.52
8	94	84	2:48	1	0.295	A VB	253232.	58.056	UG/L	3.78
9	62	93	3:06	1	0.326	A BB	474719.	55.407	UG/L	3.60
10	64	126	4:12	1	0.442	A BB	232859.	55.405	UG/L	3.60
11	84	190	6:20	1	0.667	A BB	269332.	22.845	UG/L	1.49
12	43	207	6:54	1	0.726	A BB	129767.	124.850	UG/L	8.12
13	56	211	7:02	1	0.740	A BV	3038.	129.651	UG/L	8.43
14	76	235	7:50	1	0.825	A BB	867376.	23.800	UG/L	1.55
15	53	230	7:40	1	0.807	A BB	96446.	109.888	UG/L	7.15
16	96	271	9:02	1	0.951	A BB	449066.	24.372	UG/L	1.59
17	63	308	10:16	1	1.081	A BB	905140.	24.363	UG/L	1.58
18	96	330	11:00	1	1.158	A BB	484204.	24.156	UG/L	1.57
19	83	347	11:34	1	1.218	A BB	936394.	24.299	UG/L	1.58
20	62	369	12:18	1	1.295	A BB	427304.	25.679	UG/L	1.67
21	72	366	12:12	2	0.658	A BB	63336.	117.933	UG/L	7.67
22	97	406	13:32	2	0.730	A BB	808873.	23.263	UG/L	1.51
23	117	406	13:32	2	0.730	A BV	119710.	22.106	UG/L	1.44
24	43	423	14:06	2	0.761	A BB	113786.	54.592	UG/L	3.55
25	83	434	14:28	2	0.781	A BB	758203.	24.063	UG/L	1.57
26	63	474	15:48	2	0.853	A BB	541173.	22.033	UG/L	1.43
27	75	482	16:04	2	0.867	A BB	745128.	36.734	UG/L	2.39
28	130	499	16:38	2	0.897	A BB	804191.	21.547	UG/L	1.40
29	129	517	17:14	2	0.930	A BB	637166.	23.943	UG/L	1.56
30	97	520	17:20	2	0.935	A BB	334589.	22.693	UG/L	1.48
31	78	514	17:08	2	0.924	A BB	1416530.	22.217	UG/L	1.44
32	75	520	17:20	2	0.935	A BB	467418.	8.856	UG/L	0.58
33	63	556	18:32	2	1.000	A BB	4111.	17.366	UG/L	1.13
34	173	597	19:54	2	1.074	A BB	440424.	23.178	UG/L	1.51
35	43	611	20:22	3	0.904	A BB	466209.	47.203	UG/L	3.07
36	43	658	21:56	3	0.973	A BB	287258.	47.657	UG/L	3.10
37	164	668	22:16	3	0.988	A BB	839920.	21.293	UG/L	1.38
38	83	667	22:14	3	0.987	A BB	308547.	23.963	UG/L	1.56
39	92	708	23:36	3	1.047	A BB	1040660.	21.955	UG/L	1.43
40	112	742	24:44	3	1.098	A BB	1451480.	22.374	UG/L	1.46
41	106	800	26:40	3	1.183	A BB	731807.	22.889	UG/L	1.49
42	104	918	30:36	3	1.358	A BB	1202250.	23.358	UG/L	1.52
43	106	926	30:52	3	1.370	A BB	828583.	24.234	UG/L	1.58
44	106	955	31:50	3	1.413	A BB	781980.	24.497	UG/L	1.59

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:28	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	18:30	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	22:30	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:10	1.00	1.285	1.00	11.41	10.00	1.357	1.189	1.14
5	16:58	1.00	0.917	1.00	9.62	10.00	1.235	1.284	0.96
6	23:22	1.00	1.039	1.00	9.59	10.00	2.054	2.141	0.96
7	1:44	1.00	0.183	1.00	54.19	40.00	0.817	0.603	1.35
8	2:44	1.02	0.289	1.02	58.06	40.00	0.548	0.378	1.45
9	3:06	1.00	0.327	1.00	55.41	40.00	1.028	0.742	1.39
10	4:10	1.01	0.440	1.00	55.41	40.00	0.504	0.364	1.39

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	6:18	1.01	0.665	1.00	22.85	20.00	1.166	1.021	1.14
12	6:52	1.00	0.725	1.00	124.85	100.00	0.112	0.090	1.25
13	7:02	1.00	0.743	1.00	129.65	100.00	0.003	0.002	1.30
14	7:48	1.00	0.824	1.00	23.80	20.00	3.756	3.156	1.19
15	7:38	1.00	0.806	1.00	109.89	100.00	0.084	0.076	1.10
16	9:00	1.00	0.951	1.00	24.37	20.00	1.945	1.596	1.22
17	10:14	1.00	1.081	1.00	24.36	20.00	3.919	3.217	1.22
18	10:58	1.00	1.158	1.00	24.16	20.00	2.097	1.736	1.21
19	11:32	1.00	1.218	1.00	24.30	20.00	4.055	3.337	1.21
20	12:16	1.00	1.296	1.00	25.68	20.00	1.850	1.441	1.28
21	12:10	1.00	0.658	1.00	117.93	100.00	0.017	0.015	1.18
22	13:30	1.00	0.730	1.00	23.26	20.00	1.104	0.949	1.16
23	13:30	1.00	0.730	1.00	22.11	20.00	0.163	0.148	1.11
24	14:04	1.00	0.760	1.00	54.59	40.00	0.078	0.057	1.36
25	14:26	1.00	0.780	1.00	24.06	20.00	1.035	0.860	1.20
26	15:46	1.00	0.852	1.00	22.03	20.00	0.739	0.671	1.10
27	16:02	1.00	0.867	1.00	36.73	32.40	0.628	0.554	1.13
28	16:36	1.00	0.897	1.00	21.55	20.00	1.098	1.019	1.08
29	17:12	1.00	0.930	1.00	23.94	20.00	0.870	0.727	1.20
30	17:18	1.00	0.935	1.00	22.69	20.00	0.457	0.403	1.13
31	17:06	1.00	0.924	1.00	22.22	20.00	1.934	1.741	1.11
32	17:18	1.00	0.935	1.00	8.86	7.60	1.679	1.441	1.17
33	18:30	1.00	1.000	1.00	17.37	20.00	0.006	0.006	0.87
34	19:52	1.00	1.074	1.00	23.18	20.00	0.601	0.519	1.16
35	20:20	1.00	0.904	1.00	47.20	40.00	0.498	0.422	1.18
36	21:54	1.00	0.973	1.00	47.66	40.00	0.307	0.257	1.19
37	22:14	1.00	0.988	1.00	21.29	20.00	1.793	1.684	1.06
38	22:12	1.00	0.987	1.00	23.96	20.00	0.659	0.550	1.20
39	23:34	1.00	1.047	1.00	21.96	20.00	2.221	2.023	1.10
40	24:42	1.00	1.098	1.00	22.37	20.00	3.098	2.769	1.12
41	26:36	1.00	1.182	1.00	22.89	20.00	1.562	1.365	1.14
42	30:32	1.00	1.357	1.00	23.36	20.00	2.566	2.197	1.17
43	30:46	1.00	1.367	1.00	24.23	20.00	1.768	1.459	1.21
44	31:46	1.00	1.412	1.00	24.50	20.00	1.669	1.363	1.22

TCA FINISHED, 44 FOUND
FINISHED AT: 5/25/93 17:54:11

PROCEDURE: TCA DIAGNOSTIC REPORT 5/25/93 18:36:56
DATA FILE: IC100525B
REFERENCE: VP11
NAME LIST: VP INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: VP_IS

< ---- STANDARDS ----- ><				--- PLUS UNKNOWNS --- ><				- LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	3	2	55	6	6	1	58	VP_IS/VP_SURR
3	3	1	55	12	12	4	60	VP_IS/VP_CMPDS1
3	3	1	55	12	11	1	48	VP_IS/VP_CMPDS2
3	3	1	55	12	12	1	61	VP_IS/VP_CMPDS3
3	3	1	55	14	13	1	69	VP_IS/VP_CMPDS4

44 COMPOUNDS PROCESSED, 42 FOUND

< COMPOUND ><			---------- SEARCH ---------- >< SAT >< ------ CHRO ------- >										
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	VP	1	285	286	286	.	1	981	.	128	286	.	1
2	VP	2	556	557	557	.	2	995	.	77	557	.	1
3	VP	3	676	676	676	.	1	992	.	55	676	.	1
4	VP	4	366	367	366	-1	1	990	.	65	366	.	1
5	VP	5	510	511	511	.	1	979	.	84	510	-1	1
6	VP	6	702	703	703	.	1	997	.	98	703	.	1
7	VP	7	53	54	54	.	1	988	.	50	54	.	1
8	VP	8	84	85	84	-1	1	998	.	94	84	.	1
9	VP	9	93	94	94	.	2	997	.	62	94	.	1
10	VP	10	126	127	126	-1	1	996	.	64	126	.	1
11	VP	11	190	191	191	.	1	984	.	84	191	.	1
12	VP	12	207	208	208	.	1	859	.	43	208	.	1
13	VP	13	211	212	212	.	2	666	.	56	212	.	1
14	VP	14	235	236	236	.	1	1000	.	76	236	.	1
15	VP	15	230	231	232	1	1	987	.	53	232	.	1
16	VP	16	271	272	271	-1	1	971	.	96	271	.	1
17	VP	17	308	309	309	.	1	971	.	63	309	.	1
18	VP	18	330	331	331	.	1	963	.	96	331	.	1
19	VP	19	347	348	348	.	1	959	.	83	347	-1	1
20	VP	20	369	370	369	-1	1	961	.	62	369	.	1
21	VP	21	366	367	367	.	1	996	.	72	367	.	1
22	VP	22	406	407	407	.	1	956	.	97	407	.	1
23	VP	23	406	407	407	.	1	988	.	117	407	.	1
24	VP	24	423	424	.	.	.	.	.	43	424	.	1
25	VP	25	434	435	435	.	1	970	.	83	435	.	1
26	VP	26	474	475	475	.	1	987	.	63	475	.	1
27	VP	27	482	483	483	.	1	978	.	75	482	-1	1
28	VP	28	499	500	500	.	1	958	.	130	499	-1	1
29	VP	29	517	518	518	.	1	961	.	129	518	.	1
30	VP	30	520	521	521	.	1	992	.	97	521	.	1
31	VP	31	514	515	515	.	1	987	.	78	515	.	1
32	VP	32	520	521	520	-1	1	944	.	75	521	1	1
33	VP	33	558	558	557	-1	1	920	.	63	557	.	1
34	VP	34	597	598	598	.	1	959	.	173	598	.	1
35	VP	35	611	612	612	.	1	995	.	43	612	.	1
36	VP	36	658	659	.	.	.	.	.	43	659	.	1
37	VP	37	668	669	669	.	1	906	.	164	669	.	1
38	VP	38	668	669	668	-1	1	843	.	83	668	.	1
39	VP	39	708	709	709	.	1	994	.	92	709	.	1
40	VP	40	742	743	743	.	1	990	.	112	743	.	1
41	VP	41	800	801	801	.	1	994	.	106	801	.	1
42	VP	42	918	920	921	1	1	993	.	104	920	-1	1
43	VP	44	926	928	928	.	1	997	.	106	928	.	1
44	VP	45	955	957	957	.	1	997	.	106	957	.	1

Quantitation Report File: IC100525B

Data: IC100525B.TI
05/25/93 17:54:00
Sample: CLP,1187,,IC100525,L,W,,V,IC10
Conds.: 45' (3 MIN) TO 220' @ 8'/MIN
Formula: Instrument: INCOS1 Weight: 0.000
Submitted by: Analyst: ZAR Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C040	CARBON DISULFIDE	
15	C043	ACRYLONITRILE	
16	C045	1,1-DICHLOROETHENE	
17	C050	1,1-DICHLOROETHANE	
18	C053	1,2-DICHLOROETHENE (TOTAL)	
19	C060	CHLOROFORM	
20	C065	1,2-DICHLOROETHANE	
21	C110	2-BUTANONE	
22	C115	1,1,1-TRICHLOROETHANE	
23	C120	CARBON TETRACHLORIDE	
24	C125	VINYL ACETATE	
25	C130	BROMODICHLOROMETHANE	
26	C140	1,2-DICHLOROPROPANE	
27	C143	CIS-1,3-DICHLOROPROPENE	
28	C150	TRICHLOROETHENE	
29	C155	DIBROMOCHLOROMETHANE	
30	C160	1,1,2-TRICHLOROETHANE	
31	C165	BENZENE	
32	C172	TRANS-1,3-DICHLOROPROPENE	
33	C175	2-CHLOROETHYLVINYL ETHER	
34	C180	BROMOFORM	
35	C205	4-METHYL-2-PENTANONE	
36	C210	2-HEXANONE	
37	C220	TETRACHLOROETHENE	
38	C225	1,1,2,2-TETRACHLOROETHANE	
39	C230	TOLUENE	
40	C235	CHLOROBENZENE	
41	C240	ETHYL BENZENE	
42	C245	STYRENE	
43	C260	M-XYLENE	
44	C270	O-&/OR P-XYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	286	9:32	1	1.000	A BB	125879.	10.000	UG/L	1.60
2	77	557	18:34	2	1.000	A BB	377408.	10.000	UG/L	1.60
3	55	676	22:32	3	1.000	A BB	250205.	10.000	UG/L	1.60
4	65	366	12:12	1	1.280	A BB	158474.	10.587	UG/L	1.69
5	84	510	17:00	2	0.916	A VB	473269.	9.767	UG/L	1.56
6	98	703	23:26	3	1.040	A BB	506188.	9.449	UG/L	1.51
7	50	54	1:48	1	0.189	A VB	215522.	28.397	UG/L	4.53
8	94	84	2:48	1	0.294	A VB	125651.	26.424	UG/L	4.22
9	62	94	3:08	1	0.329	A BB	258886.	27.717	UG/L	4.42
10	64	126	4:12	1	0.441	A BB	123415.	26.936	UG/L	4.30
11	84	191	6:22	1	0.668	A BB	107866.	8.393	UG/L	1.34
12	43	208	6:56	1	0.727	A BB	54425.	48.033	UG/L	7.67
13	56	212	7:04	1	0.741	A BV	778.	30.465	UG/L	4.86
14	76	236	7:52	1	0.825	A BB	324468.	8.167	UG/L	1.30
15	53	232	7:44	1	0.811	A BV	41929.	43.822	UG/L	7.00
16	96	271	9:02	1	0.948	A BB	172455.	8.586	UG/L	1.37
17	63	309	10:18	1	1.080	A BB	345323.	8.526	UG/L	1.36
18	96	331	11:02	1	1.157	A BB	179929.	8.234	UG/L	1.31
19	83	347	11:34	1	1.213	A BB	367212.	8.741	UG/L	1.40
20	62	369	12:18	1	1.290	A BB	166676.	9.188	UG/L	1.47
21	72	367	12:14	2	0.659	A BB	26498.	47.884	UG/L	7.64
22	97	407	13:34	2	0.731	A BB	308711.	8.617	UG/L	1.38
23	117	407	13:34	2	0.731	A BV	44677.	8.007	UG/L	1.28
24	43	424	14:08	2	0.761	A BV	41415.	19.284	UG/L	3.08
25	83	435	14:30	2	0.781	A BB	278585.	8.581	UG/L	1.37
26	63	475	15:50	2	0.853	A BB	209833.	8.291	UG/L	1.32
27	75	482	16:04	2	0.865	A BB	281311.	13.459	UG/L	2.15
28	130	499	16:38	2	0.896	A BB	310991.	8.087	UG/L	1.29
29	129	518	17:16	2	0.930	A BB	235363.	8.584	UG/L	1.37
30	97	521	17:22	2	0.935	A BB	130655.	8.600	UG/L	1.37
31	78	515	17:10	2	0.925	A BB	541257.	8.239	UG/L	1.32
32	75	521	17:22	2	0.935	A BB	174788.	3.214	UG/L	0.51
33	63	557	18:34	2	1.000	A BB	4496.	18.433	UG/L	2.94
34	173	598	19:56	2	1.074	A BB	163522.	8.352	UG/L	1.33
35	43	612	20:24	3	0.905	A BB	179310.	16.999	UG/L	2.71
36	43	659	21:58	3	0.975	A BB	109706.	17.042	UG/L	2.72
37	164	669	22:18	3	0.990	A BB	323206.	7.672	UG/L	1.22
38	83	668	22:16	3	0.988	A BB	115298.	8.384	UG/L	1.34
39	92	709	23:38	3	1.049	A BB	397031.	7.843	UG/L	1.25
40	112	743	24:46	3	1.099	A BB	539012.	7.780	UG/L	1.24
41	106	801	26:42	3	1.185	A BB	275410.	8.066	UG/L	1.29
42	104	920	30:40	3	1.361	A BB	423680.	7.707	UG/L	1.23
43	106	928	30:56	3	1.373	A BB	292868.	8.020	UG/L	1.28
44	106	957	31:54	3	1.416	A BB	266716.	7.823	UG/L	1.25

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:28	1.01	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	18:30	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	22:30	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:10	1.00	1.285	1.00	10.59	10.00	1.259	1.189	1.06
5	16:58	1.00	0.917	1.00	9.77	10.00	1.254	1.284	0.98
6	23:22	1.00	1.039	1.00	9.45	10.00	2.023	2.141	0.94
7	1:44	1.04	0.183	1.03	28.40	40.00	0.428	0.603	0.71
8	2:44	1.02	0.289	1.02	26.42	40.00	0.250	0.378	0.66
9	3:06	1.01	0.327	1.00	27.72	40.00	0.514	0.742	0.69
10	4:10	1.01	0.440	1.00	26.94	40.00	0.245	0.364	0.67

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	6:18	1.01	0.665	1.00	8.39	20.00	0.428	1.021	0.42
12	6:52	1.01	0.725	1.00	48.03	100.00	0.043	0.090	0.48
13	7:02	1.00	0.743	1.00	30.46	100.00	0.001	0.002	0.30
14	7:48	1.01	0.824	1.00	8.17	20.00	1.289	3.156	0.41
15	7:38	1.01	0.806	1.01	43.82	100.00	0.033	0.076	0.44
16	9:00	1.00	0.951	1.00	8.59	20.00	0.685	1.596	0.43
17	10:14	1.01	1.081	1.00	8.53	20.00	1.372	3.217	0.43
18	10:58	1.01	1.158	1.00	8.23	20.00	0.715	1.736	0.41
19	11:32	1.00	1.218	1.00	8.74	20.00	1.459	3.337	0.44
20	12:16	1.00	1.296	1.00	9.19	20.00	0.662	1.441	0.46
21	12:10	1.01	0.658	1.00	47.88	100.00	0.007	0.015	0.48
22	13:30	1.00	0.730	1.00	8.62	20.00	0.409	0.949	0.43
23	13:30	1.00	0.730	1.00	8.01	20.00	0.059	0.148	0.40
24	14:04	1.00	0.760	1.00	19.28	40.00	0.027	0.057	0.48
25	14:26	1.00	0.780	1.00	8.58	20.00	0.369	0.860	0.43
26	15:46	1.00	0.852	1.00	8.29	20.00	0.278	0.671	0.41
27	16:02	1.00	0.867	1.00	13.46	32.40	0.230	0.554	0.42
28	16:36	1.00	0.897	1.00	8.09	20.00	0.412	1.019	0.40
29	17:12	1.00	0.930	1.00	8.58	20.00	0.312	0.727	0.43
30	17:18	1.00	0.935	1.00	8.60	20.00	0.173	0.403	0.43
31	17:06	1.00	0.924	1.00	8.24	20.00	0.717	1.741	0.41
32	17:18	1.00	0.935	1.00	3.21	7.60	0.609	1.441	0.42
33	18:30	1.00	1.000	1.00	18.43	20.00	0.006	0.006	0.92
34	19:52	1.00	1.074	1.00	8.35	20.00	0.217	0.519	0.42
35	20:20	1.00	0.904	1.00	17.00	40.00	0.179	0.422	0.42
36	21:54	1.00	0.973	1.00	17.04	40.00	0.110	0.257	0.43
37	22:14	1.00	0.988	1.00	7.67	20.00	0.646	1.684	0.38
38	22:12	1.00	0.987	1.00	8.38	20.00	0.230	0.550	0.42
39	23:34	1.00	1.047	1.00	7.84	20.00	0.793	2.023	0.39
40	24:42	1.00	1.098	1.00	7.78	20.00	1.077	2.769	0.39
41	26:36	1.00	1.182	1.00	8.07	20.00	0.550	1.365	0.40
42	30:32	1.00	1.357	1.00	7.71	20.00	0.847	2.197	0.39
43	30:46	1.01	1.367	1.00	8.02	20.00	0.585	1.459	0.40
44	31:46	1.00	1.412	1.00	7.82	20.00	0.533	1.363	0.39

TCA FINISHED, 42 FOUND
FINISHED AT: 5/25/93 18:43:09

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:H. O. D. LANDFILL Contract:LOCKHEED/ESAT

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Instrument ID: HP MS #4 Calibration Date: 5/18/93 Time: 14:24

Lab File ID: >AG210 Init. Calib. Date(s):05/17/93 05/18/93

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 30.0%

COMPOUND		RRF	RRF50	%D	
Dichlorodifluoromethane		.120	.104	13.5	
Chloromethane	#	.119	.144	21.4	#
Vinyl chloride	*	.194	.221	13.7	*
Bromomethane		.149	.157	5.1	
Chloroethane		.104	.111	6.3	
Trichlorofluoromethane		.110	.099	9.7	
Acrolein		.003	.002	25.5	
1,1-Dichloroethene	*	.126	.147	17.0	*
Acetone		.178	.090	49.5	
Carbon disulfide		.818	.924	12.9	
Methylene chloride		.195	.217	11.3	
trans-1,2-Dichloroethene		.279	.241	13.5	
Acrylonitrile		.118	.121	2.5	
1,1-Dichloroethane	#	.122	.215	76.4	#
Vinyl acetate		.081	.088	8.9	
2,2-Dichloropropane		.502	.562	11.9	
cis-1,2-Dichloroethene		.241	.209	13.4	
2-Butanone		.145	.100	30.7	
Bromochloromethane		.137	.116	15.1	
Chloroform	*	.594	.479	19.3	*
1,1,1-trichloroethane		.604	.714	18.1	
Carbon tetrachloride		.434	.432	.4	
1,1-Dichloropropene		.456	.543	18.9	
Benzene		1.073	1.241	15.7	
1,2-Dichloroethane	*	.601	.614	2.2	*
Trichloroethene		.444	.607	36.7	
1,2-Dichloropropane		.299	.323	8.1	
Dibromomethane		.265	.289	9.2	
2-Chloroethyl vinylether		.061	.065	6.4	
Bromodichloromethane		.525	.586	11.5	
cis-1,3-dichloropropene		.505	.576	14.1	
Toluene	*	.619	.719	16.1	*
4-Methyl-2-pentanone		.314	.307	2.1	
trans-1,3-Dichloropropene		.465	.546	17.4	
Tetrachloroethene		.329	.390	18.4	
1,1,2-Trichloroethane		.023	.031	34.3	
1,3-Dichloropropane		.479	.546	14.0	

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:H. O. D. LANDFILL Contract:LOCKHEED/ESAT

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Instrument ID: HP MS #4 Calibration Date: 5/18/93 Time: 14:24

Lab File ID: >AG210 Init. Calib. Date(s):05/17/93 05/18/93

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 30.0%

COMPOUND		RRF	RRF50	%D	
2-Hexanone		.232	.190	18.2	
Dibromochloromethane		.364	.409	12.5	
1,2-Dibromoethane		.329	.380	15.4	
Chlorobenzene	#	.921	1.131	22.8	#
1,1,1,2-Tetrachloroethane		.370	.442	19.6	
Ethylbenzene	*	1.692	2.046	20.9	*
m &/or p-Xylene		.552	.678	22.8	
o-Xylene		.512	.615	20.0	
Styrene		.853	1.070	25.5	
Bromoform	#	.316	.346	9.4	#
Isopropylbenzene		1.567	1.897	21.1	
Bromobenzene		.443	.541	22.1	
1,2,3-Trichloropropane		.428	.503	17.4	
1,1,2,2-Tetrachloroethane		.310	.154	50.4	
n-Propylbenzene		.374	.464	24.0	
2-Chlorotoluene		.345	.429	24.2	
4-Chlorotoluene		.362	.448	23.8	
1,3,5-Trimethylbenzene		1.371	1.688	23.1	
tert-Butylbenzene		1.065	1.276	19.8	
1,2,4-Trimethylbenzene		1.385	1.724	24.4	
sec-Butylbenzene		1.632	2.028	24.3	
1,3-Dichlorobenzene		.779	.939	20.5	
1,4-Dichlorobenzene		.811	.981	21.0	
p-Isopropyltoluene		1.390	1.666	19.9	
1,2-Dichlorobenzene		.737	.891	21.0	
n-Butylbenzene		1.447	1.754	21.2	
1,2-Dibromo-3-chloropropane		.098	.094	4.8	
1,2,4-Trichlorobenzene		.515	.643	24.9	
Naphthalene		1.069	1.428	33.6	
Hexachlorobutadiene		.345	.409	18.7	
1,2,3-Trichlorobenzene		.490	.610	24.6	
Benzene-d6		.979	.947	3.2	
p-Bromofluorobenzene		.491	.486	1.0	
1,2-Dichlorobenzene-d4		.512	.485	5.2	

Calibration Check Report

Title: VOC 74 COMPOUNDS
Calibrated: 930518 09:19

Check Standard Data File: >AG210
Injection Time: 930518 14:24

Compound	RF	RF	%Diff	Calib Meth	
Dichlorodifluoromethane	.12003	.10376	13.55	Average	
Chloromethane	.11861	.14397	21.38	Average	
Vinyl chloride	.19418	.22089	13.76	Average	
Bromomethane	.14906	.15666	5.10	Average	
Chloroethane	.10421	.11078	6.30	Average	
Trichlorofluoromethane	.10946	.09887	9.67	Average	
Acrolein	.00310	.00231	25.45	Average	(Conc=250.00)
1,1-Dichloroethene	.12601	.14744	17.01	Average	
Acetone	.17841	.09010	49.50	Average ✓	(Conc=250.00)
Carbon disulfide	.81841	.92366	12.86	Average	
Methylene chloride	.19545	.21741	11.24	Average	
trans-1,2-Dichloroethene	.27888	.24125	13.49	Average	
Acrylonitrile	.11807	.12108	2.55	Average	(Conc=250.00)
1,1-Dichloroethane	.12214	.21544	76.39	Average ✓	
Vinyl acetate	.08065	.08791	9.00	Average	(Conc=100.00)
2,2-Dichloropropane	.50209	.56168	11.87	Average	
cis-1,2-Dichloroethene	.24142	.20905	13.41	Average	
2-Butanone	.14488	.10036	30.73	Average	(Conc=250.00)
Bromochloromethane	.13690	.11626	15.08	Average	
Chloroform	.59388	.47927	19.30	Average	
1,1,1-Trichloroethane	.60430	.71352	18.07	Average	
Carbon tetrachloride	.43409	.43233	.41	Average	
1,1-Dichloropropene	.45605	.54251	18.96	Average	
BENZENE-D6	.97858	.94697	3.23	Average	(Conc=10.00)
Benzene	1.07278	1.24094	15.68	Average	
1,2-Dichloroethane	.60070	.61398	2.21	Average	
Trichloroethene	.44433	.60714	36.64	Average ✓	
1,2-Dichloropropane	.29856	.32269	8.08	Average	
Dibromomethane	.26469	.28904	9.20	Average	
2-Chloroethyl vinylether	.06112	.06498	6.32	Average	
Bromodichloromethane	.52514	.58574	11.54	Average	
cis-1,3-Dichloropropene	.50472	.57577	14.08	Average	(Conc=25.20)
Toluene	.61906	.71883	16.12	Average	
4-Methyl-2-pentanone	.31388	.30736	2.08	Average	(Conc=100.00)
trans-1,3-Dichloropropene	.46478	.54619	17.52	Average	(Conc=22.30)
Tetrachloroethene	.32899	.38956	18.41	Average	
1,1,2-Trichloroethane	.02328	.03130	34.45	Average ✓	
1,3-Dichloropropane	.47887	.54613	14.05	Average	
2-Hexanone	.23176	.18950	18.24	Average	(Conc=100.00)
Dibromochloromethane	.36360	.40889	12.46	Average	

RF - Response Factor from daily standard file at 50.00 UG/L

RF - Average Response Factor from Initial Calibration

%Diff - % Difference from original average or curve

Calibration Check Report

Title: VOC 74 COMPOUNDS
Calibrated: 930518 09:19

Check Standard Data File: >AG210
Injection Time: 930518 14:24

Compound	RF	RF	%Diff	Calib Meth	
1,2-Dibromoethane	.32942	.38019	15.41	Average	
Chlorobenzene	.92152	1.13145	22.78	Average	
1,1,1,2-Tetrachloroethane	.36961	.44220	19.64	Average	
Ethylbenzene	1.69245	2.04626	20.91	Average	
m &/or p-Xylene	.55218	.67790	22.77	Average	(Conc=100.00)
o-Xylene	.51232	.61472	19.99	Average	
Styrene	.85310	1.07047	25.48	Average	
Bromoform	.31603	.34565	9.37	Average	
Isopropylbenzene	1.56669	1.89735	21.11	Average	
p-BROMOFLUOROBENZENE	.49114	.48604	1.04	Average	(Conc=10.00)
Bromobenzene	.44304	.54076	22.06	Average	
1,2,3-Trichloropropane	.42820	.50280	17.42	Average	
1,1,2,2-Tetrachloroethane	.30956	.15355	50.40	Average ✓	
n-Propylbenzene	.37435	.46435	24.04	Average	
2-Chlorotoluene	.34498	.42861	24.24	Average	
4-Chlorotoluene	.36171	.44761	23.75	Average	
1,3,5-Trimethylbenzene	1.37112	1.68807	23.12	Average	
tert-Butylbenzene	1.06490	1.27606	19.83	Average	
1,2,4-Trimethylbenzene	1.38529	1.72392	24.44	Average	
sec-Butylbenzene	1.63173	2.02841	24.31	Average	
1,3-Dichlorobenzene	.77869	.93870	20.55	Average	
1,4-Dichlorobenzene	.81079	.98111	21.01	Average	
p-Isopropyltoluene	1.38966	1.66600	19.88	Average	
1,2-DICHLOROBENZENE-D4	.51207	.48534	5.22	Average	(Conc=10.00)
1,2-Dichlorobenzene	.73654	.89114	20.99	Average	
n-Butylbenzene	1.44734	1.75441	21.22	Average	
1,2-Dibromo-3-chloropropane	.09851	.09374	4.84	Average	
1,2,4-Trichlorobenzene	.51466	.64261	24.86	Average	
Naphthalene	1.06899	1.42785	33.57	Average ✓	
Hexachlorobutadiene	.34460	.40897	18.68	Average	
1,2,3-Trichlorobenzene	.48988	.61036	24.59	Average	

RF - Response Factor from daily standard file at 50.00 UG/L

RF - Average Response Factor from Initial Calibration

%Diff - % Difference from original average or curve

```
FMGR :
FMGR : QCAL,^AG210,IDAG05,C

 Quant Output File: ^AG210::D2
      From ID File: IDAG05::QT
        Quant Time: 930518 14:57

     Quant ID File: IDAG05::QT
             Title: ID FILE FOR 624 VOC METHOD


Clearing previous calibration...
Recalibrating.....

  1) FLUOROBENZENE                    RT: 13.13 Scan: 1137 (ISTD)
  2) Dichlorodifluoromethane          RT:  2.54 Scan:   81 (New Rf = .10376)
  3) Chloromethane                    RT:  2.93 Scan:  120 (New Rf = .14397)
  4) Vinyl chloride                   RT:  3.19 Scan:  146 (New Rf = .22089)
  5) Bromomethane                     RT:  4.00 Scan:  227 (New Rf = .15666)
  6) Chloroethane                     RT:  4.32 Scan:  259 (New Rf = .11078)
  7) Trichlorofluoromethane           RT:  5.01 Scan:  328 (New Rf = .09887)
  8) Acrolein                         RT:  6.44 Scan:  470 (New Rf = .00231)
  9) 1,1-Dichloroethene               RT:  6.50 Scan:  476 (New Rf = .14744)
 10) Acetone                          RT:  7.00 Scan:  526 (New Rf = .09010)
 11) Carbon disulfide                 RT:  6.78 Scan:  504 (New Rf = .92366)
 12) Methylene chloride               RT:  7.95 Scan:  621 (New Rf = .21741)
 13) trans-1,2-Dichloroethene         RT:  8.55 Scan:  681 (New Rf = .24125)
 14) Acrylonitrile                    RT:  8.70 Scan:  696 (New Rf = .12108)
 15) 1,1-Dichloroethane               RT:  9.52 Scan:  778 (New Rf = .21544)
 16) Vinyl acetate                    RT:  9.87 Scan:  812 (New Rf = .08791)
 17) 2,2-Dichloropropane              RT: 10.71 Scan:  896 (New Rf = .56168)
 18) cis-1,2-Dichloroethene           RT: 10.81 Scan:  906 (New Rf = .20905)
 19) 2-Butanone                       RT: 11.02 Scan:  926 (New Rf = .10036)
 20) Bromochloromethane               RT: 11.31 Scan:  955 (New Rf = .11626)
 21) Chloroform                       RT: 11.58 Scan:  982 (New Rf = .47927)
 22) 1,1,1-Trichloroethane            RT: 11.74 Scan:  998 (New Rf = .71352)
 23) Carbon tetrachloride             RT: 12.04 Scan: 1028 (New Rf = .43233)
 24) 1,1-Dichloropropene              RT: 12.09 Scan: 1033 (New Rf = .54251)
 25) BENZENE-D6                       RT: 12.42 Scan: 1066 (New Rf = .94697)
 26) Benzene                          RT: 12.50 Scan: 1074 (New Rf =1.24094)
 27) 1,2-Dichloroethane               RT: 12.64 Scan: 1088 (New Rf = .61398)
 28) TOLUENE-D8                       RT: 16.26 Scan: 1451 (ISTD)
 29) Trichloroethene                  RT: 13.84 Scan: 1209 (New Rf = .60714)
 30) 1,2-Dichloropropane              RT: 14.29 Scan: 1254 (New Rf = .32269)
 31) Dibromomethane                   RT: 14.53 Scan: 1278 (New Rf = .28904)
 32) 2-Chloroethyl vinylether         RT: 15.63 Scan: 1388 (New Rf = .06498)
 33) Bromodichloromethane             RT: 14.93 Scan: 1318 (New Rf = .58574)
 34) cis-1,3-Dichloropropene          RT: 15.81 Scan: 1406 (New Rf = .57577)
 35) Toluene                          RT: 16.39 Scan: 1464 (New Rf = .71883)
 36) 4-Methyl-2-pentanone             RT: 16.20 Scan: 1445 (New Rf = .30736)
 37) trans-1,3-Dichloropropene        RT: 16.97 Scan: 1522 (New Rf = .54570)
 38) Tetrachloroethene                RT: 17.44 Scan: 1569 (New Rf = .38956)
 39) 1,1,2-Trichloroethane            RT: 17.31 Scan: 1556 (New Rf = .03130)
 40) 1,3-Dichloropropane              RT: 17.62 Scan: 1587 (New Rf = .54613)
 41) 2-Hexanone                       RT: 17.90 Scan: 1615 (New Rf = .18950)
 42) Dibromochloromethane             RT: 18.05 Scan: 1630 (New Rf = .40889)
 43) 1,2-Dibromoethane                RT: 18.21 Scan: 1646 (New Rf = .38019)
 44) CHLOROBENZENE-D5                 RT: 19.17 Scan: 1742 (ISTD)
 45) Chlorobenzene                    RT: 19.23 Scan: 1748 (New Rf =1.13145)
 46) 1,1,1,2-Tetrachloroethane        RT: 19.46 Scan: 1771 (New Rf = .44220)
 47) Ethylbenzene                     RT: 19.51 Scan: 1776 (New Rf =2.04626)
 48) m &/or p-Xylene                  RT: 19.77 Scan: 1802 (New Rf = .67790)
 49) o-Xylene                         RT: 20.58 Scan: 1883 (New Rf = .61472)
 50) Styrene                          RT: 20.64 Scan: 1889 (New Rf =1.07047)
 51) Bromoform                        RT: 21.00 Scan: [illegible] (New Rf [illegible])
```

51)	Bromoform	RT: [illegible]	Scan:	1929	(New Rf	[illegible])
52)	Isopropylbenzene	RT: 21.48	Scan:	1965	(New Rf	=1.89735)
53)	p-BROMOFLUOROBENZENE	RT: 21.71	Scan:	1996	(New Rf	= .48604)
54)	Bromobenzene	RT: 21.96	Scan:	2021	(New Rf	= .54076)
55)	1,2,3-Trichloropropane	RT: 22.20	Scan:	2045	(New Rf	= .50280)
56)	1,1,2,2-Tetrachloroethane	RT: 22.18	Scan:	2043	(New Rf	= .15355)
57)	n-Propylbenzene	RT: 22.30	Scan:	2055	(New Rf	= .46435)
58)	2-Chlorotoluene	RT: 22.42	Scan:	2067	(New Rf	= .42861)
59)	4-Chlorotoluene	RT: 22.67	Scan:	2092	(New Rf	= .44761)
60)	1,3,5-Trimethylbenzene	RT: 22.71	Scan:	2096	(New Rf	=1.68807)
61)	tert-Butylbenzene	RT: 23.39	Scan:	2164	(New Rf	=1.27606)
62)	1,2,4-Trimethylbenzene	RT: 23.51	Scan:	2176	(New Rf	=1.72392)
63)	sec-Butylbenzene	RT: 23.88	Scan:	2213	(New Rf	=2.02841)
64)	1,3-Dichlorobenzene	RT: 24.05	Scan:	2230	(New Rf	= .93870)
65)	1,4-Dichlorobenzene	RT: 24.26	Scan:	2251	(New Rf	= .98111)
66)	p-Isopropyltoluene	RT: 24.24	Scan:	2249	(New Rf	=1.66600)
67)	1,2-DICHLOROBENZENE-D4	RT: 25.02	Scan:	2327	(New Rf	= .48534)
68)	1,2-Dichlorobenzene	RT: 25.06	Scan:	2331	(New Rf	= .89114)
69)	n-Butylbenzene	RT: 25.15	Scan:	2340	(New Rf	=1.75441)
70)	1,2-Dibromo-3-chloropropane	RT: 26.86	Scan:	2511	(New Rf	= .09374)
71)	1,2,4-Trichlorobenzene	RT: 28.68	Scan:	2694	(New Rf	= .64261)
72)	Naphthalene	RT: 29.20	Scan:	2746	(New Rf	=1.42785)
73)	Hexachlorobutadiene	RT: 29.11	Scan:	2737	(New Rf	= .40897)
74)	1,2,3-Trichlorobenzene	RT: 29.75	Scan:	2801	(New Rf	= .61036)

Done

FMGR : IDLST,IDAG05

Quant ID File: IDAG05::QT

Title: ID FILE FOR 624 VOC METHOD

Last EDIT Date: 930422 15:05 Last Calib Date: 930518 10:10
Last Qcal Date: 930518 14:24 Calib File: CBAG02::SC
Qcal File: ^AG210:14906:D2

RT Window (+min -%)	: .5000	Subtraction Method	: 2
Max Hits/Compound	: 1	Ignore max check	: NO
Minimum Area	: 1000	Auto Qdel Method	: 5
Peak/Base Peak Ratio	: 35.00 %	Quantitate Using	: AREA
Up Slope Sensitivity	: -.500000	Units of Conc	: ug/L
Down Slope Sensitivity	: .0000000	Bunching	: 1

Number of Compounds: 74

Comp No.	Compound Name	(Type)	Retention Time Min.	(Rel)	R.F.	Conc.	
1)	*FLUOROBENZENE	(I)	13.13(	1.000)	1.00000	10.00	**
2)	Dichlorodifluoromethane	(T)	2.54(	.194)	.10376	50.00	**
3)	Chloromethane	(T)	2.93(	.223)	.14397	50.00	
4)	Vinyl chloride	(T)	3.19(	.243)	.22089	50.00	**
5)	Bromomethane	(T)	4.00(	.305)	.15666	50.00	
6)	Chloroethane	(T)	4.32(	.329)	.11078	50.00	**
7)	Trichlorofluoromethane	(T)	5.01(	.382)	.09887	50.00	
8)	Acrolein	(T)	6.44(	.490)	.00231	250.00	
9)	1,1-Dichloroethene	(M)	6.50(	.495)	.14744	50.00	
10)	Acetone	(T)	7.00(	.533)	.09010	250.00	**
11)	Carbon disulfide	(T)	6.78(	.516)	.92366	50.00	**
12)	Methylene chloride	(T)	7.95(	.606)	.21741	50.00	
13)	trans-1,2-Dichloroethene	(T)	8.55(	.651)	.24125	50.00	
14)	Acrylonitrile	(T)	8.70(	.663)	.12108	250.00	
15)	1,1-Dichloroethane	(T)	9.52(	.726)	.21544	50.00	
16)	Vinyl acetate	(T)	9.87(	.752)	.08791	100.00	
17)	2,2-Dichloropropane	(T)	10.71(	.816)	.56168	50.00	
18)	cis-1,2-Dichloroethene	(T)	10.81(	.824)	.20905	50.00	
19)	2-Butanone	(T)	11.02(	.839)	.10036	250.00	**
20)	Bromochloromethane	(T)	11.31(	.861)	.11626	50.00	**
21)	Chloroform	(T)	11.58(	.882)	.47927	50.00	**
22)	1,1,1-Trichloroethane	(T)	11.74(	.894)	.71352	50.00	**
23)	Carbon tetrachloride	(T)	12.04(	.917)	.43233	50.00	**
24)	1,1-Dichloropropene	(T)	12.09(	.921)	.54251	50.00	
25)	BENZENE-D6	(S)	12.42(	.946)	.94697	10.00	
26)	Benzene	(M)	12.50(	.952)	1.24094	50.00	
27)	1,2-Dichloroethane	(T)	12.64(	.963)	.61398	50.00	**
28)	*TOLUENE-D8	(I)	16.26(	1.000)	1.00000	10.00	**
29)	Trichloroethene	(M)	13.84(	.851)	.60714	50.00	
30)	1,2-Dichloropropane	(T)	14.29(	.879)	.32269	50.00	**
31)	Dibromomethane	(T)	14.53(	.894)	.28904	50.00	**
32)	2-Chloroethyl vinylether	(T)	15.63(	.961)	.06498	50.00	
33)	Bromodichloromethane	(T)	14.93(	.918)	.58574	50.00	
34)	cis-1,3-Dichloropropene	(T)	15.81(	.972)	.57577	25.20	**
35)	Toluene	(M)	16.39(	1.008)	.71883	50.00	
36)	4-Methyl-2-pentanone	(T)	16.20(	.996)	.30736	100.00	
37)	trans-1,3-Dichloropropene	(T)	16.97(	1.044)	.54570	22.32	
38)	Tetrachloroethene	(T)	17.44(	1.073)	.38956	50.00	
39)	1,1,2-Trichloroethane	(T)	17.31(	1.065)	.03130	50.00	
40)	1,3-Dichloropropane	(T)	17.62(	1.084)	.54613	50.00	
41)	2-Hexanone	(T)	17.90(	1.101)	.18950	100.00	**
42)	Dibromochloromethane	(T)	18.05(	1.110)	.40889	50.00	**
43)	1,2-Dibromoethane	(T)	18.21(	1.120)	.30010	50.00	**

43)	1,2-Dibromoethane	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
44)	*CHLOROBENZENE-D5	(I)	19.17(	1.000)	1.00000	10.00	
45)	Chlorobenzene	(M)	19.23(	1.003)	1.13145	50.00	
46)	1,1,1,2-Tetrachloroethane	(T)	19.46(	1.015)	.44220	50.00	**
47)	Ethylbenzene	(T)	19.51(	1.018)	2.04626	50.00	**
48)	m &/or p-Xylene	(T)	19.77(	1.031)	.67790	100.00	**
49)	o-Xylene	(T)	20.58(	1.074)	.61472	50.00	
50)	Styrene	(T)	20.64(	1.077)	1.07047	50.00	
51)	Bromoform	(T)	21.00(	1.095)	.34565	50.00	**
52)	Isopropylbenzene	(T)	21.40(	1.116)	1.89735	50.00	**
53)	p-BROMOFLUOROBENZENE	(S)	21.71(	1.132)	.48604	10.00	**
54)	Bromobenzene	(T)	21.96(	1.145)	.54076	50.00	**
55)	1,2,3-Trichloropropane	(T)	22.20(	1.158)	.50280	50.00	**
56)	1,1,2,2-Tetrachloroethane	(T)	22.18(	1.157)	.15355	50.00	**
57)	n-Propylbenzene	(T)	22.30(	1.163)	.46435	50.00	**
58)	2-Chlorotoluene	(T)	22.42(	1.170)	.42861	50.00	**
59)	4-Chlorotoluene	(T)	22.67(	1.183)	.44761	50.00	**
60)	1,3,5-Trimethylbenzene	(T)	22.71(	1.185)	1.68807	50.00	
61)	tert-Butylbenzene	(T)	23.39(	1.220)	1.27606	50.00	
62)	1,2,4-Trimethylbenzene	(T)	23.51(	1.226)	1.72392	50.00	
63)	sec-Butylbenzene	(T)	23.88(	1.246)	2.02841	50.00	
64)	1,3-Dichlorobenzene	(T)	24.05(	1.255)	.93870	50.00	**
65)	1,4-Dichlorobenzene	(T)	24.26(	1.266)	.98111	50.00	**
66)	p-Isopropyltoluene	(T)	24.24(	1.264)	1.66600	50.00	
67)	1,2-DICHLOROBENZENE-D4	(S)	25.02(	1.305)	.48534	10.00	**
68)	1,2-Dichlorobenzene	(T)	25.06(	1.307)	.89114	50.00	
69)	n-Butylbenzene	(T)	25.15(	1.312)	1.75441	50.00	
70)	1,2-Dibromo-3-chloropropane	(T)	26.86(	1.401)	.09374	50.00	**
71)	1,2,4-Trichlorobenzene	(T)	28.68(	1.496)	.64261	50.00	**
72)	Naphthalene	(T)	29.20(	1.524)	1.42785	50.00	
73)	Hexachlorobutadiene	(T)	29.11(	1.519)	.40897	50.00	**
74)	1,2,3-Trichlorobenzene	(T)	29.75(	1.552)	.61036	50.00	**

* Compound is ISTD
** Compound uses different Quant parameters

QUANT REPORT

Operator ID: TONY
Output File: ^AG210::D2
Data File: >AG210::D5
Name: VOASTD 50PPB
Misc: 05/18/93 #3

Quant Rev: 7
Quant Time: 930518 14:57
Injected at: 930518 14:24
Dilution Factor: 1.00000
Instrument ID: HP MS#4

ID File: IDAG05::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930518 10:10
Last Qcal Time: <none>

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.13	96.0	66966	10.00	ug/L	99
2)	Dichlorodifluoromethane	2.54	85.0	34742	43.22	ug/L	99
3)	Chloromethane	2.93	50.0	48205	60.69	ug/L	99
4)	Vinyl chloride	3.19	62.0	73961	56.88	ug/L	94
5)	Bromomethane	4.00	94.0	52456	52.55	ug/L	97
6)	Chloroethane	4.32	64.0	37092	53.15	ug/L	98
7)	Trichlorofluoromethane	5.01	101.0	33106	45.16	ug/L	96
8)	Acrolein	6.44	56.0	3864M	186.39	ug/L	
9)	1,1-Dichloroethene	6.50	96.0	49369	58.51	ug/L	98
10)	Acetone	7.00	43.0	150836M	126.25	ug/L	95
11)	Carbon disulfide	6.78	76.0	309268	56.43	ug/L	98
12)	Methylene chloride	7.95	84.0	72797	55.62	ug/L	93
13)	trans-1,2-Dichloroethene	8.55	96.0	80778	43.25	ug/L	96
14)	Acrylonitrile	8.70	53.0	202709	256.39	ug/L	91
15)	1,1-Dichloroethane	9.52	63.0	72137M	88.19	ug/L	97
16)	Vinyl acetate	9.87	43.0	58871	109.00	ug/L	100
17)	2,2-Dichloropropane	10.71	77.0	188067	55.93	ug/L	96
18)	cis-1,2-Dichloroethene	10.81	96.0	69996	43.30	ug/L	95
19)	2-Butanone	11.02	43.0	168013	173.17	ug/L	81
20)	Bromochloromethane	11.31	128.0	38927	42.46	ug/L	94
21)	Chloroform	11.58	83.0	160474M	40.35	ug/L	96
22)	1,1,1-Trichloroethane	11.74	97.0	238907	59.04	ug/L	97
23)	Carbon tetrachloride	12.04	117.0	144756	49.80	ug/L	96
24)	1,1-Dichloropropene	12.09	75.0	181647	59.48	ug/L	97
25)	BENZENE-D6	12.42	84.0	63415	9.68	ug/L	99
26)	Benzene	12.50	78.0	415505	57.84	ug/L	99
27)	1,2-Dichloroethane	12.64	62.0	205579M	51.11	ug/L	98
28)	*TOLUENE-D8	16.26	98.0	67588	10.00	ug/L	93
29)	Trichloroethene	13.84	95.0	205178	68.32	ug/L	92
30)	1,2-Dichloropropane	14.29	63.0	109049	54.04	ug/L	96
31)	Dibromomethane	14.53	174.0	97678	54.60	ug/L	97
32)	2-Chloroethyl vinylether	15.63	63.0	21961	53.16	ug/L	97
33)	Bromodichloromethane	14.93	83.0	197945	55.77	ug/L	98
34)	cis-1,3-Dichloropropene	15.81	75.0	98067	28.75	ug/L	95
35)	Toluene	16.39	92.0	242922	58.06	ug/L	90
36)	4-Methyl-2-pentanone	16.20	43.0	207739	97.92	ug/L	93
37)	trans-1,3-Dichloropropene	16.97	75.0	82323	26.21	ug/L	99
38)	Tetrachloroethene	17.44	166.0	131649	59.21	ug/L	99
39)	1,1,2-Trichloroethane	17.31	132.0	10578	67.22	ug/L	96
40)	1,3-Dichloropropane	17.62	76.0	184559	57.02	ug/L	99

Operator ID: TONY
Output File: ^AG210::D2
Data File: >AG210::D5
Name: VOASTD 50PPB
Misc: 05/18/93 #3

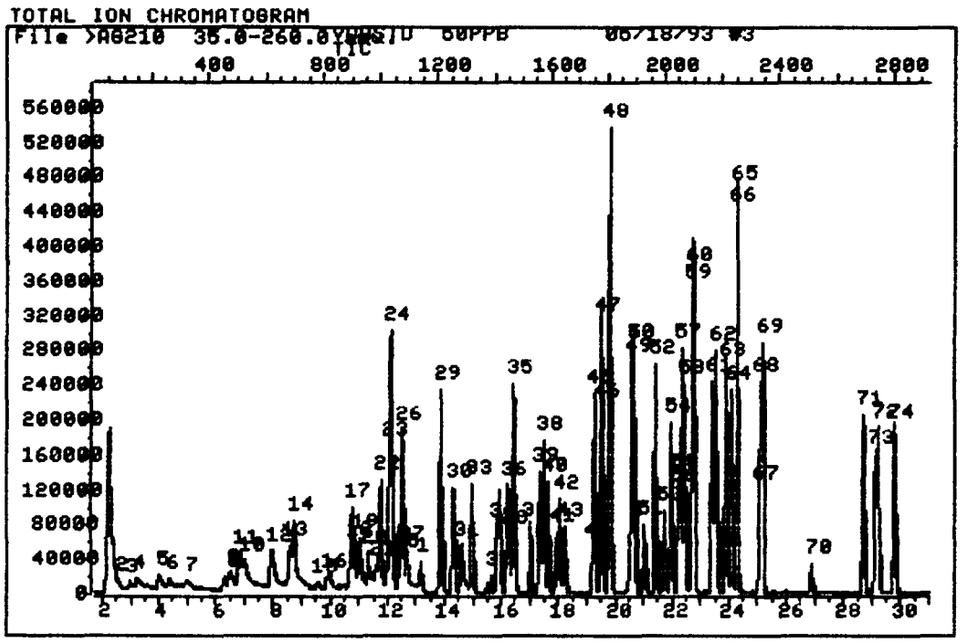
Quant Rev: 7
Quant Time: 930518 14:57
Injected at: 930518 14:24
Dilution Factor: 1.00000
Instrument ID: HP MS#4

ID File: IDAG05::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930518 10:10
Last Qcal Time: <none>

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	2-Hexanone	17.90	43.0	128076	81.76	ug/L	97
42)	Dibromochloromethane	18.05	129.0	138181	56.23	ug/L	96
43)	1,2-Dibromoethane	18.21	107.0	128482	57.71	ug/L	99
44)	*CHLOROBENZENE-D5	19.17	117.0	50033	10.00	ug/L	99
45)	Chlorobenzene	19.23	112.0	283049	61.39	ug/L	95
46)	1,1,1,2-Tetrachloroethane	19.46	131.0	110623	59.82	ug/L	95
47)	Ethylbenzene	19.51	91.0	511903	60.45	ug/L	92
48)	m &/or p-Xylene	19.77	106.0	339172	122.77	ug/L	74
49)	o-Xylene	20.58	106.0	153781	59.99	ug/L	87
50)	Styrene	20.64	104.0	267795	62.74	ug/L	89
51)	Bromoform	21.00	173.0	86469	54.69	ug/L	98
52)	Isopropylbenzene	21.40	105.0	474651	60.55	ug/L	92
53)	p-BROMOFLUOROBENZENE	21.71	174.0	24318	9.90	ug/L	96
54)	Bromobenzene	21.96	156.0	135278	61.03	ug/L	98
55)	1,2,3-Trichloropropane	22.20	75.0	125784	58.71	ug/L	85
56)	1,1,2,2-Tetrachloroethane	22.18	83.0	38413	24.80	ug/L	96
57)	n-Propylbenzene	22.30	120.0	116163	62.02	ug/L	99
58)	2-Chlorotoluene	22.42	126.0	107222	62.12	ug/L	92
59)	4-Chlorotoluene	22.67	126.0	111976	61.87	ug/L	87
60)	1,3,5-Trimethylbenzene	22.71	105.0	422297	61.56	ug/L	82
61)	tert-Butylbenzene	23.39	119.0	319225	59.91	ug/L	82
62)	1,2,4-Trimethylbenzene	23.51	105.0	431265	62.22	ug/L	83
63)	sec-Butylbenzene	23.88	105.0	507437	62.16	ug/L	91
64)	1,3-Dichlorobenzene	24.05	146.0	234830	60.27	ug/L	93
65)	1,4-Dichlorobenzene	24.26	146.0	245439	60.50	ug/L	96
66)	p-Isopropyltoluene	24.24	119.0	416774	59.94	ug/L	88
67)	1,2-DICHLOROBENZENE-D4	25.02	152.0	24283	9.48	ug/L	88
68)	1,2-Dichlorobenzene	25.06	146.0	222931	60.50	ug/L	93
69)	n-Butylbenzene	25.15	91.0	438892	60.61	ug/L	86
70)	1,2-Dibromo-3-chloropropane	26.86	157.0	23451	47.58	ug/L	98
71)	1,2,4-Trichlorobenzene	28.68	180.0	160759	62.43	ug/L	97
72)	Naphthalene	29.20	128.0	357198	66.79	ug/L	100
73)	Hexachlorobutadiene	29.11	225.0	102310	59.34	ug/L	98
74)	1,2,3-Trichlorobenzene	29.75	180.0	152690	62.30	ug/L	97

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG210::D5
Name: VOASTD 50PPB
Misc: 05/18/93 #3

Quant Output File: ^AG210::D2
Instrument ID: HP MS#4

Id File: IDAG05::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930518 10:10

Last Qcal Time: <none>

Operator ID: TONY
Quant Time : 930518 14:57
Injected at: 930518 14:24

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:H.O.D. LANDFILL Contract:LOCKHEED/ESAT

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Instrument ID: HP MS#4 Calibration Date: 5/26/93 Time: 9:30

Lab File ID: >AG254 Init. Calib. Date(s):05/25/93 --/--/--

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 30.0%

COMPOUND		RRF	RRF50	%D	
Dichlorodifluoromethane		.460	.496	7.7	
Chloromethane	#	.456	.442	3.1	#
Vinyl chloride	*	.405	.449	10.7	*
Bromomethane		.287	.284	1.1	
Chloroethane		.195	.212	8.7	
Trichlorofluoromethane		.499	.525	5.1	
Acrolein		.001	.001	5.0	
1,1-Dichloroethene	*	.272	.276	1.5	*
Acetone		.054	.066	20.7	
Carbon disulfide		.804	.830	3.1	
Methylene chloride		.344	.335	2.6	
trans-1,2-Dichloroethene		.297	.301	1.3	
Acrylonitrile		.103	.123	19.2	
1,1-Dichloroethane	#	.548	.540	1.4	#
Vinyl acetate		.155	.152	1.7	
2,2-Dichloropropane		.381	.342	10.3	
cis-1,2-Dichloroethene		.280	.265	5.4	
2-Butanone		.069	.081	18.3	
Bromochloromethane		.195	.139	29.0	
Chloroform	*	.702	.515	26.6	*
1,1,1-trichloroethane		.575	.354	38.4✓	
Carbon tetrachloride		.419	.243	42.0✓	
1,1-Dichloropropene		.442	.332	24.8	
Benzene		1.053	1.029	2.3	
1,2-Dichloroethane	*	.612	.601	1.8	*
Trichloroethene		.422	.414	2.1	
1,2-Dichloropropane		.297	.307	3.4	
Dibromomethane		.259	.271	4.7	
2-Chloroethyl vinylether		.015	.015	3.8	
Bromodichloromethane		.526	.532	1.2	
cis-1,3-dichloropropene		.510	.530	3.9	
Toluene	*	.637	.640	.4	*
4-Methyl-2-pentanone		.283	.344	21.6	
trans-1,3-Dichloropropene		.463	.492	6.3	
Tetrachloroethene		.322	.335	3.9	
1,1,2-Trichloroethane		.025	.028	10.4	
1,3-Dichloropropane		.476	.503	5.6	

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:H.O.D. LANDFILL Contract:LOCKHEED/ESAT

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Instrument ID: HP MS#4 Calibration Date: 5/26/93 Time: 9:30

Lab File ID: >AG254 Init. Calib. Date(s):05/25/93 --/--/--

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 30.0%

COMPOUND		$\overline{RRF}$	RRF50	%D	
2-Hexanone		.178	.204	14.5	
Dibromochloromethane		.359	.376	4.7	
1,2-Dibromoethane		.327	.351	7.3	
Chlorobenzene	#	.936	.932	.4	#
1,1,1,2-Tetrachloroethane		.369	.373	1.2	
Ethylbenzene	*	1.661	1.704	2.5	*
m &/or p-Xylene		.538	.553	2.7	
o-Xylene		.499	.507	1.5	
Styrene		.858	.872	1.6	
Bromoform	#	.286	.317	11.0	#
Isopropylbenzene		1.487	1.535	3.2	
Bromobenzene		.419	.428	2.1	
1,2,3-Trichloropropane		.382	.425	11.3	
1,1,2,2-Tetrachloroethane		.318	.368	15.6	
n-Propylbenzene		.360	.371	3.2	
2-Chlorotoluene		.331	.340	2.6	
4-Chlorotoluene		.347	.350	.9	
1,3,5-Trimethylbenzene		1.306	1.368	4.8	
tert-Butylbenzene		.987	1.015	2.8	
1,2,4-Trimethylbenzene		1.330	1.364	2.5	
sec-Butylbenzene		1.515	1.629	7.5	
1,3-Dichlorobenzene		.724	.739	2.1	
1,4-Dichlorobenzene		.748	.767	2.5	
p-Isopropyltoluene		1.262	1.333	5.6	
1,2-Dichlorobenzene		.680	.692	1.8	
n-Butylbenzene		1.316	1.413	7.4	
1,2-Dibromo-3-chloropropane		.080	.096	20.4	
1,2,4-Trichlorobenzene		.472	.484	2.5	
Naphthalene		1.079	1.191	10.4	
Hexachlorobutadiene		.274	.286	4.4	
1,2,3-Trichlorobenzene		.445	.465	4.4	
Benzene-d6		.951	.954	.4	
p-Bromofluorobenzene		.462	.462	.0	
1,2-Dichlorobenzene-d4		.479	.488	1.8	

FMGR : QCAL,^AG254,IDAG09,C

Quant Output File: ^AG254::D5
From ID File: IDAG09
Quant Time: 930526 10:03

Quant ID File: IDAG09::QT
Title: ID FILE FOR 624 VOC METHOD

Clearing previous calibration...
Recalibrating.....

1)	FLUOROBENZENE	RT: 13.13	Scan: 1107	(ISTD)	
2)	Dichlorodifluoromethane	RT: 2.97	Scan: 96	(New Rf =	.49553)
3)	Chloromethane	RT: 3.39	Scan: 138	(New Rf =	.44195)
4)	Vinyl chloride	RT: 3.63	Scan: 162	(New Rf =	.44864)
5)	Bromomethane	RT: 4.27	Scan: 226	(New Rf =	.28382)
6)	Chloroethane	RT: 4.46	Scan: 245	(New Rf =	.21247)
7)	Trichlorofluoromethane	RT: 5.18	Scan: 317	(New Rf =	.52476)
8)	Acrolein	RT: 6.26	Scan: 424	(New Rf =	.00133)
9)	1,1-Dichloroethene	RT: 6.51	Scan: 449	(New Rf =	.27641)
10)	Acetone	RT: 7.02	Scan: 500	(New Rf =	.06576)
11)	Carbon disulfide	RT: 6.88	Scan: 486	(New Rf =	.82956)
12)	Methylene chloride	RT: 7.97	Scan: 595	(New Rf =	.33470)
13)	trans-1,2-Dichloroethene	RT: 8.57	Scan: 655	(New Rf =	.30094)
14)	Acrylonitrile	RT: 8.71	Scan: 669	(New Rf =	.12279)
15)	1,1-Dichloroethane	RT: 9.56	Scan: 753	(New Rf =	.54014)
16)	Vinyl acetate	RT: 9.99	Scan: 796	(New Rf =	.15232)
17)	2,2-Dichloropropane	RT: 10.75	Scan: 871	(New Rf =	.34181)
18)	cis-1,2-Dichloroethene	RT: 10.83	Scan: 879	(New Rf =	.26517)
19)	2-Butanone	RT: 11.03	Scan: 899	(New Rf =	.08148)
20)	Bromochloromethane	RT: 11.29	Scan: 925	(New Rf =	.13886)
21)	Chloroform	RT: 11.57	Scan: 952	(New Rf =	.51495)
22)	1,1,1-Trichloroethane	RT: 11.73	Scan: 968	(New Rf =	.35437)
23)	Carbon tetrachloride	RT: 12.02	Scan: 997	(New Rf =	.24258)
24)	1,1-Dichloropropene	RT: 12.08	Scan: 1003	(New Rf =	.33244)
25)	BENZENE-D6	RT: 12.42	Scan: 1036	(New Rf =	.95436)
26)	Benzene	RT: 12.49	Scan: 1043	(New Rf =	1.02853)
27)	1,2-Dichloroethane	RT: 12.64	Scan: 1058	(New Rf =	.60115)
28)	TOLUENE-D8	RT: 16.29	Scan: 1424	(ISTD)	
29)	Trichloroethene	RT: 13.86	Scan: 1180	(New Rf =	.41351)
30)	1,2-Dichloropropane	RT: 14.31	Scan: 1225	(New Rf =	.30679)
31)	Dibromomethane	RT: 14.55	Scan: 1249	(New Rf =	.27118)
32)	2-Chloroethyl vinylether	RT: 15.66	Scan: 1361	(New Rf =	.01481)
33)	Bromodichloromethane	RT: 14.95	Scan: 1290	(New Rf =	.53236)
34)	cis-1,3-Dichloropropene	RT: 15.84	Scan: 1379	(New Rf =	.52986)
35)	Toluene	RT: 16.42	Scan: 1437	(New Rf =	.63960)
36)	4-Methyl-2-pentanone	RT: 16.24	Scan: 1419	(New Rf =	.34440)
37)	trans-1,3-Dichloropropene	RT: 17.01	Scan: 1496	(New Rf =	.49227)
38)	Tetrachloroethene	RT: 17.48	Scan: 1543	(New Rf =	.33458)
39)	1,1,2-Trichloroethane	RT: 17.36	Scan: 1531	(New Rf =	.02782)
40)	1,3-Dichloropropane	RT: 17.66	Scan: 1561	(New Rf =	.50278)
41)	2-Hexanone	RT: 17.95	Scan: 1590	(New Rf =	.20364)
42)	Dibromochloromethane	RT: 18.10	Scan: 1605	(New Rf =	.37551)
43)	1,2-Dibromoethane	RT: 18.25	Scan: 1620	(New Rf =	.35069)
44)	CHLOROBENZENE-D5	RT: 19.23	Scan: 1718	(ISTD)	
45)	Chlorobenzene	RT: 19.28	Scan: 1723	(New Rf =	.93180)
46)	1,1,1,2-Tetrachloroethane	RT: 19.51	Scan: 1746	(New Rf =	.32330)

46) 1,1,2,2-Tetrachloroethane RT: 19.91 Scan: 1746 (New Rf =.57990)
47) Ethylbenzene RT: 19.56 Scan: 1751 (New Rf =1.70380)
48) m &/or p-Xylene RT: 19.82 Scan: 1777 (New Rf = .55269)
49) o-Xylene RT: 20.64 Scan: 1859 (New Rf = .50705)
50) Styrene RT: 20.69 Scan: 1864 (New Rf = .87173)
51) Bromoform RT: 21.05 Scan: 1900 (New Rf = .31699)
52) Isopropylbenzene RT: 21.45 Scan: 1940 (New Rf =1.53459)
53) p-BROMOFLUOROBENZENE RT: 21.77 Scan: 1972 (New Rf = .46236)
54) Bromobenzene RT: 22.02 Scan: 1997 (New Rf = .42778)
55) 1,2,3-Trichloropropane RT: 22.25 Scan: 2020 (New Rf = .42474)
56) 1,1,2,2-Tetrachloroethane RT: 22.24 Scan: 2019 (New Rf = .36751)
57) n-Propylbenzene RT: 22.35 Scan: 2030 (New Rf = .37134)
58) 2-Chlorotoluene RT: 22.47 Scan: 2042 (New Rf = .33996)
59) 4-Chlorotoluene RT: 22.73 Scan: 2068 (New Rf = .35020)
60) 1,3,5-Trimethylbenzene RT: 22.76 Scan: 2071 (New Rf =1.36827)
61) tert-Butylbenzene RT: 23.44 Scan: 2139 (New Rf =1.01480)
62) 1,2,4-Trimethylbenzene RT: 23.56 Scan: 2151 (New Rf =1.36375)
63) sec-Butylbenzene RT: 23.93 Scan: 2188 (New Rf =1.62897)
64) 1,3-Dichlorobenzene RT: 24.10 Scan: 2205 (New Rf = .73922)
65) 1,4-Dichlorobenzene RT: 24.31 Scan: 2226 (New Rf = .76712)
66) p-Isopropyltoluene RT: 24.29 Scan: 2224 (New Rf =1.33275)
67) 1,2-DICHLOROBENZENE-D4 RT: 25.07 Scan: 2302 (New Rf = .48790)
68) 1,2-Dichlorobenzene RT: 25.11 Scan: 2306 (New Rf = .69227)
69) n-Butylbenzene RT: 25.20 Scan: 2314 (New Rf =1.41280)
70) 1,2-Dibromo-3-chloropropane RT: 26.90 Scan: 2485 (New Rf = .09634)
71) 1,2,4-Trichlorobenzene RT: 28.73 Scan: 2668 (New Rf = .48417)
72) Naphthalene RT: 29.24 Scan: 2719 (New Rf =1.19083)
73) Hexachlorobutadiene RT: 29.17 Scan: 2712 (New Rf = .28564)
74) 1,2,3-Trichlorobenzene RT: 29.81 Scan: 2776 (New Rf = .46456)

Done

Calibration Check Report

Title: VOC 74 COMPOUNDS
Calibrated: 930525 17:35

Check Standard Data File: >AG254
Injection Time: 930526 09:30

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
Dichlorodifluoromethane	.46007	.49553	7.71	Average	
Chloromethane	.45601	.44195	3.08	Average	
Vinyl chloride	.40511	.44864	10.75	Average	
Bromomethane	.28689	.28382	1.07	Average	
Chloroethane	.19548	.21247	8.69	Average	
Trichlorofluoromethane	.49929	.52476	5.10	Average	
Acrolein	.00143	.00133	6.82	Average	(Conc=250.00)
1,1-Dichloroethene	.27224	.27641	1.53	Average	
Acetone	.05446	.06576	20.75	Average	(Conc=250.00)
Carbon disulfide	.80425	.82956	3.15	Average	
Methylene chloride	.34353	.33470	2.57	Average	
trans-1,2-Dichloroethene	.29711	.30094	1.29	Average	
Acrylonitrile	.10297	.12279	19.24	Average	(Conc=250.00)
1,1-Dichloroethane	.54774	.54014	1.39	Average	
Vinyl acetate	.15496	.15232	1.71	Average	(Conc=100.00)
2,2-Dichloropropane	.38111	.34181	10.31	Average	
cis-1,2-Dichloroethene	.28017	.26517	5.35	Average	
2-Butanone	.06889	.08148	18.29	Average	(Conc=250.00)
Bromochloromethane	.19548	.13886	28.96	Average	
Chloroform	.70195	.51495	26.64	Average	
1,1,1-Trichloroethane	.57522	.35437	38.39	Average	
Carbon tetrachloride	.41858	.24258	42.05	Average	
1,1-Dichloropropene	.44212	.33244	24.81	Average	
BENZENE-D6	.95087	.95436	.37	Average	(Conc=10.00)
Benzene	1.05267	1.02853	2.29	Average	
1,2-Dichloroethane	.61219	.60115	1.80	Average	
Trichloroethene	.42216	.41351	2.05	Average	
1,2-Dichloropropane	.29676	.30679	3.38	Average	
Dibromomethane	.25891	.27118	4.74	Average	
2-Chloroethyl vinylether	.01541	.01481	3.86	Average	
Bromodichloromethane	.52587	.53236	1.23	Average	
cis-1,3-Dichloropropene	.50986	.52986	3.92	Average	(Conc=25.20)
Toluene	.63725	.63960	.37	Average	
4-Methyl-2-pentanone	.28319	.34440	21.62	Average	(Conc=100.00)
trans-1,3-Dichloropropene	.46311	.49271	6.39	Average	(Conc=22.30)
Tetrachloroethene	.32207	.33458	3.88	Average	
1,1,2-Trichloroethane	.02525	.02782	10.22	Average	
1,3-Dichloropropane	.47592	.50278	5.64	Average	
2-Hexanone	.17787	.20364	14.49	Average	(Conc=100.00)
Dibromochloromethane	.35882	.37551	4.65	Average	

RF - Response Factor from daily standard file at 50.00 UG/L

$\overline{RF}$ - Average Response Factor from Initial Calibration

%Diff - % Difference from original average or curve

Calibration Check Report

Title: VOC 74 COMPOUNDS
Calibrated: 930525 17:35

Check Standard Data File: >AG254
Injection Time: 930526 09:30

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
1,2-Dibromoethane	.32671	.35069	7.34	Average	
Chlorobenzene	.93585	.93180	.43	Average	
1,1,1,2-Tetrachloroethane	.36895	.37330	1.18	Average	
Ethylbenzene	1.66147	1.70380	2.55	Average	
m &/or p-Xylene	.53827	.55269	2.68	Average	(Conc=100.00)
o-Xylene	.49946	.50705	1.52	Average	
Styrene	.85756	.87173	1.65	Average	
Bromoform	.28559	.31699	10.99	Average	
Isopropylbenzene	1.48703	1.53459	3.20	Average	
p-BROMOFLUOROBENZENE	.46247	.46236	.02	Average	(Conc=10.00)
Bromobenzene	.41906	.42778	2.08	Average	
1,2,3-Trichloropropane	.38160	.42474	11.30	Average	
1,1,2,2-Tetrachloroethane	.31786	.36751	15.62	Average	
n-Propylbenzene	.35972	.37134	3.23	Average	
2-Chlorotoluene	.33115	.33996	2.66	Average	
4-Chlorotoluene	.34722	.35020	.86	Average	
1,3,5-Trimethylbenzene	1.30557	1.36827	4.80	Average	
tert-Butylbenzene	.98669	1.01480	2.85	Average	
1,2,4-Trimethylbenzene	1.33044	1.36375	2.50	Average	
sec-Butylbenzene	1.51527	1.62897	7.50	Average	
1,3-Dichlorobenzene	.72417	.73922	2.08	Average	
1,4-Dichlorobenzene	.74843	.76712	2.50	Average	
p-Isopropyltoluene	1.26199	1.33275	5.61	Average	
1,2-DICHLOROBENZENE-D4	.47908	.48790	1.84	Average	(Conc=10.00)
1,2-Dichlorobenzene	.67970	.69227	1.85	Average	
n-Butylbenzene	1.31556	1.41280	7.39	Average	
1,2-Dibromo-3-chloropropane	.08000	.09634	20.41	Average	
1,2,4-Trichlorobenzene	.47235	.48417	2.50	Average	
Naphthalene	1.07874	1.19083	10.39	Average	
Hexachlorobutadiene	.27369	.28564	4.37	Average	
1,2,3-Trichlorobenzene	.44500	.46456	4.40	Average	

RF - Response Factor from daily standard file at 50.00 UG/L

$\overline{RF}$ - Average Response Factor from Initial Calibration

%Diff - % Difference from original average or curve

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H. O. D. LANDFILL Contract:LOCKHEED/ESAT

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Instrument ID: HP MS#4 Calibration Date: 5/27/93 Time: 10:31

Lab File ID: >AG269 Init. Calib. Date(s):05/25/93 --/--/--

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 30.0%

COMPOUND		RRF	RRF50	%D	
Dichlorodifluoromethane		.460	.426	7.3	
Chloromethane	#	.456	.416	8.9	#
Vinyl chloride	*	.405	.378	6.8	*
Bromomethane		.287	.275	4.0	
Chloroethane		.195	.175	10.4	
Trichlorofluoromethane		.499	.568	13.7	
Acrolein		.001	.002	13.6	
1,1-Dichloroethene	*	.272	.268	1.6	*
Acetone		.054	.047	13.2	
Carbon disulfide		.804	.791	1.6	
Methylene chloride		.344	.331	3.5	
trans-1,2-Dichloroethene		.297	.290	2.3	
Acrylonitrile		.103	.089	14.0	
1,1-Dichloroethane	#	.548	.531	3.1	#
Vinyl acetate		.155	.145	6.7	
2,2-Dichloropropane		.381	.382	.2	
cis-1,2-Dichloroethene		.280	.282	.7	
2-Butanone		.069	.064	7.5	
Bromochloromethane		.195	.193	1.3	
Chloroform	*	.702	.704	.3	*
1,1,1-trichloroethane		.575	.576	.2	
Carbon tetrachloride		.419	.427	1.9	
1,1-Dichloropropene		.442	.442	.0	
Benzene		1.053	1.057	.4	
1,2-Dichloroethane	*	.612	.595	2.9	*
Trichloroethene		.422	.391	7.4	
1,2-Dichloropropane		.297	.290	2.3	
Dibromomethane		.259	.264	2.1	
2-Chloroethyl vinylether		.015	.013	18.0	
Bromodichloromethane		.526	.526	.1	
cis-1,3-dichloropropene		.510	.497	2.6	
Toluene	*	.637	.623	2.2	*
4-Methyl-2-pentanone		.283	.235	17.0	
trans-1,3-Dichloropropene		.463	.438	5.5	
Tetrachloroethene		.322	.344	6.9	
1,1,2-Trichloroethane		.025	.025	.8	
1,3-Dichloropropane		.476	.456	4.1	

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H. O. D. LANDFILL Contract:LOCKHEED/ESAT

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Instrument ID: HP MS#4 Calibration Date: 5/27/93 Time: 10:31

Lab File ID: >AG269 Init. Calib. Date(s):05/25/93 --/--/--

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 30.0%

COMPOUND	RRF	RRF50	%D
2-Hexanone	.178	.153	14.0
Dibromochloromethane	.359	.361	.7
1,2-Dibromoethane	.327	.310	5.2
Chlorobenzene #	.936	.935	.1 #
1,1,1,2-Tetrachloroethane	.369	.389	5.3
Ethylbenzene *	1.661	1.706	2.7 *
m &/or p-Xylene	.538	.563	4.6
o-Xylene	.499	.519	3.8
Styrene	.858	.878	2.4
Bromoform #	.286	.307	7.6 #
Isopropylbenzene	1.487	1.570	5.6
Bromobenzene	.419	.437	4.3
1,2,3-Trichloropropane	.382	.351	8.1
1,1,2,2-Tetrachloroethane	.318	.350	10.0
n-Propylbenzene	.360	.372	3.5
2-Chlorotoluene	.331	.345	4.1
4-Chlorotoluene	.347	.359	3.5
1,3,5-Trimethylbenzene	1.306	1.379	5.6
tert-Butylbenzene	.987	1.041	5.5
1,2,4-Trimethylbenzene	1.330	1.397	5.0
sec-Butylbenzene	1.515	1.644	8.5
1,3-Dichlorobenzene	.724	.744	2.8
1,4-Dichlorobenzene	.748	.780	4.2
p-Isopropyltoluene	1.262	1.348	6.8
1,2-Dichlorobenzene	.680	.704	3.5
n-Butylbenzene	1.316	1.393	5.9
1,2-Dibromo-3-chloropropane	.080	.076	5.6
1,2,4-Trichlorobenzene	.472	.514	8.8
Naphthalene	1.079	1.018	5.6
Hexachlorobutadiene	.274	.323	18.0
1,2,3-Trichlorobenzene	.445	.475	6.6
Benzene-d6	.951	.952	.1
p-Bromofluorobenzene	.462	.494	6.9
1,2-Dichlorobenzene-d4	.479	.499	4.2

Calibration Check Report

Title: VOC 74 COMPOUNDS
Calibrated: 930525 17:35

Check Standard Data File: >AG269
Injection Time: 930527 10:31

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
Dichlorodifluoromethane	.46007	.42635	7.33	Average	
Chloromethane	.45601	.41553	8.88	Average	
Vinyl chloride	.40511	.37768	6.77	Average	
Bromomethane	.28689	.27545	3.99	Average	
Chloroethane	.19548	.17518	10.39	Average	
Trichlorofluoromethane	.49929	.56762	13.69	Average	
Acrolein	.00143	.00159	11.14	Average	(Conc=250.00)
1,1-Dichloroethene	.27224	.26780	1.63	Average	
Acetone	.05446	.04730	13.15	Average	(Conc=250.00)
Carbon disulfide	.80425	.79139	1.60	Average	
Methylene chloride	.34353	.33139	3.54	Average	
trans-1,2-Dichloroethene	.29711	.29033	2.28	Average	
Acrylonitrile	.10297	.08853	14.02	Average	(Conc=250.00)
1,1-Dichloroethane	.54774	.53078	3.10	Average	
Vinyl acetate	.15496	.14459	6.69	Average	(Conc=100.00)
2,2-Dichloropropane	.38111	.38202	.24	Average	
cis-1,2-Dichloroethene	.28017	.28226	.75	Average	
2-Butanone	.06889	.06375	7.45	Average	(Conc=250.00)
Bromochloromethane	.19548	.19292	1.31	Average	
Chloroform	.70195	.70397	.29	Average	
1,1,1-Trichloroethane	.57522	.57637	.20	Average	
Carbon tetrachloride	.41858	.42659	1.91	Average	
1,1-Dichloropropene	.44212	.44194	.04	Average	
BENZENE-D6	.95087	.95219	.14	Average	(Conc=10.00)
Benzene	1.05267	1.05679	.39	Average	
1,2-Dichloroethane	.61219	.59458	2.88	Average	
Trichloroethene	.42216	.39090	7.41	Average	
1,2-Dichloropropane	.29676	.28989	2.32	Average	
Dibromomethane	.25891	.26422	2.05	Average	
2-Chloroethyl vinylether	.01541	.01263	18.00	Average	
Bromodichloromethane	.52587	.52618	.06	Average	
cis-1,3-Dichloropropene	.50986	.49653	2.61	Average	(Conc=25.20)
Toluene	.63725	.62287	2.26	Average	
4-Methyl-2-pentanone	.28319	.23508	16.99	Average	(Conc=100.00)
trans-1,3-Dichloropropene	.46311	.43796	5.43	Average	(Conc=22.30)
Tetrachloroethene	.32207	.34437	6.92	Average	
1,1,2-Trichloroethane	.02525	.02541	.66	Average	
1,3-Dichloropropane	.47592	.45644	4.09	Average	
2-Hexanone	.17787	.15294	14.01	Average	(Conc=100.00)
Dibromochloromethane	.35882	.36136	.71	Average	

RF - Response Factor from daily standard file at 50.00 UG/L

$\overline{RF}$ - Average Response Factor from Initial Calibration

%Diff - % Difference from original average or curve

Calibration Check Report

Title: VOC 74 COMPOUNDS
Calibrated: 930525 17:35

Check Standard Data File: >AG269
Injection Time: 930527 10:31

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
1,2-Dibromoethane	.32671	.30972	5.20	Average	
Chlorobenzene	.93585	.93469	.12	Average	
1,1,1,2-Tetrachloroethane	.36895	.38861	5.33	Average	
Ethylbenzene	1.66147	1.70576	2.67	Average	
m &/or p-Xylene	.53827	.56326	4.64	Average	(Conc=100.00)
o-Xylene	.49946	.51867	3.85	Average	
Styrene	.85756	.87787	2.37	Average	
Bromoform	.28559	.30742	7.64	Average	
Isopropylbenzene	1.48703	1.57049	5.61	Average	
p-BROMOFLUOROBENZENE	.46247	.49434	6.89	Average	(Conc=10.00)
Bromobenzene	.41906	.43701	4.28	Average	
1,2,3-Trichloropropane	.38160	.35083	8.07	Average	
1,1,2,2-Tetrachloroethane	.31786	.34981	10.05	Average	
n-Propylbenzene	.35972	.37244	3.54	Average	
2-Chlorotoluene	.33115	.34486	4.14	Average	
4-Chlorotoluene	.34722	.35924	3.46	Average	
1,3,5-Trimethylbenzene	1.30557	1.37925	5.64	Average	
tert-Butylbenzene	.98669	1.04130	5.53	Average	
1,2,4-Trimethylbenzene	1.33044	1.39665	4.98	Average	
sec-Butylbenzene	1.51527	1.64445	8.52	Average	
1,3-Dichlorobenzene	.72417	.74421	2.77	Average	
1,4-Dichlorobenzene	.74843	.77978	4.19	Average	
p-Isopropyltoluene	1.26199	1.34838	6.85	Average	
1,2-DICHLOROBENZENE-D4	.47908	.49904	4.17	Average	(Conc=10.00)
1,2-Dichlorobenzene	.67970	.70380	3.55	Average	
n-Butylbenzene	1.31556	1.39322	5.90	Average	
1,2-Dibromo-3-chloropropane	.08000	.07554	5.58	Average	
1,2,4-Trichlorobenzene	.47235	.51392	8.80	Average	
Naphthalene	1.07874	1.01832	5.60	Average	
Hexachlorobutadiene	.27369	.32299	18.01	Average	
1,2,3-Trichlorobenzene	.44500	.47452	6.63	Average	

RF - Response Factor from daily standard file at 50.00 UG/L

$\overline{RF}$ - Average Response Factor from Initial Calibration

%Diff - % Difference from original average or curve

```
FMGR : QCAL,^AG269,IDAG10,C

 Quant Output File: ^AG269::D5
      From ID File: IDAG10::QT
        Quant Time: 930527 11:04

     Quant ID File: IDAG10::QT
             Title: ID FILE FOR 624 VOC METHOD


Clearing previous calibration...
Recalibrating.....

  1) FLUOROBENZENE                    RT: 13.12 Scan: 1109 (ISTD)
  2) Dichlorodifluoromethane          RT:  2.88 Scan:   87 (New Rf = .42635)
  3) Chloromethane                    RT:  3.27 Scan:  126 (New Rf = .41553)
  4) Vinyl chloride                   RT:  3.48 Scan:  147 (New Rf = .37768)
  5) Bromomethane                     RT:  4.19 Scan:  218 (New Rf = .27545)
  6) Chloroethane                     RT:  4.38 Scan:  237 (New Rf = .17518)
  7) Trichlorofluoromethane           RT:  4.93 Scan:  292 (New Rf = .56762)
  8) Acrolein                         RT:  6.38 Scan:  437 (New Rf = .00159)
  9) 1,1-Dichloroethene               RT:  6.41 Scan:  440 (New Rf = .26780)
 10) Acetone                          RT:  6.90 Scan:  489 (New Rf = .04730)
 11) Carbon disulfide                 RT:  6.72 Scan:  471 (New Rf = .79139)
 12) Methylene chloride               RT:  7.89 Scan:  587 (New Rf = .33139)
 13) trans-1,2-Dichloroethene         RT:  8.50 Scan:  648 (New Rf = .29033)
 14) Acrylonitrile                    RT:  8.64 Scan:  662 (New Rf = .08853)
 15) 1,1-Dichloroethane               RT:  9.49 Scan:  747 (New Rf = .53078)
 16) Vinyl acetate                    RT:  9.92 Scan:  790 (New Rf = .14459)
 17) 2,2-Dichloropropane              RT: 10.71 Scan:  868 (New Rf = .38202)
 18) cis-1,2-Dichloroethene           RT: 10.79 Scan:  876 (New Rf = .28226)
 19) 2-Butanone                       RT: 11.00 Scan:  897 (New Rf = .06375)
 20) Bromochloromethane               RT: 11.27 Scan:  924 (New Rf = .19292)
 21) Chloroform                       RT: 11.56 Scan:  953 (New Rf = .70397)
 22) 1,1,1-Trichloroethane            RT: 11.73 Scan:  970 (New Rf = .57637)
 23) Carbon tetrachloride             RT: 12.04 Scan: 1001 (New Rf = .42659)
 24) 1,1-Dichloropropene              RT: 12.09 Scan: 1006 (New Rf = .44194)
 25) BENZENE-D6                       RT: 12.41 Scan: 1038 (New Rf = .95219)
 26) Benzene                          RT: 12.49 Scan: 1046 (New Rf =1.05679)
 27) 1,2-Dichloroethane               RT: 12.63 Scan: 1060 (New Rf = .59458)
 28) TOLUENE-D8                       RT: 16.27 Scan: 1424 (ISTD)
 29) Trichloroethene                  RT: 13.85 Scan: 1182 (New Rf = .39090)
 30) 1,2-Dichloropropane              RT: 14.30 Scan: 1227 (New Rf = .28989)
 31) Dibromomethane                   RT: 14.54 Scan: 1251 (New Rf = .26422)
 32) 2-Chloroethyl vinylether         RT: 15.64 Scan: 1361 (New Rf = .01263)
 33) Bromodichloromethane             RT: 14.94 Scan: 1291 (New Rf = .52618)
 34) cis-1,3-Dichloropropene          RT: 15.82 Scan: 1379 (New Rf = .49653)
 35) Toluene                          RT: 16.40 Scan: 1437 (New Rf = .62287)
 36) 4-Methyl-2-pentanone             RT: 16.22 Scan: 1419 (New Rf = .23508)
 37) trans-1,3-Dichloropropene        RT: 17.00 Scan: 1497 (New Rf = .43757)
 38) Tetrachloroethene                RT: 17.46 Scan: 1543 (New Rf = .34437)
 39) 1,1,2-Trichloroethane            RT: 17.32 Scan: 1529 (New Rf = .02541)
 40) 1,3-Dichloropropane              RT: 17.63 Scan: 1560 (New Rf = .45644)
 41) 2-Hexanone                       RT: 17.92 Scan: 1589 (New Rf = .15294)
 42) Dibromochloromethane             RT: 18.07 Scan: 1604 (New Rf = .36136)
 43) 1,2-Dibromoethane                RT: 18.22 Scan: 1619 (New Rf = .30972)
 44) CHLOROBENZENE-D5                 RT: 19.20 Scan: 1717 (ISTD)
 45) Chlorobenzene                    RT: 19.25 Scan: 1722 (New Rf = .93469)
 46) 1,1,1,2-Tetrachloroethane        RT: 19.48 Scan: 1745 (New Rf = .38861)
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46)	1,1,1,2-Tetrachloroethane	RT:	19.53	Scan:	1750	(New Rf =1.20576)
47)	Ethylbenzene	RT:	19.59	Scan:	1756	(New Rf =1.20576)
48)	m &/or p-Xylene	RT:	19.79	Scan:	1776	(New Rf = .56326)
49)	o-Xylene	RT:	20.60	Scan:	1857	(New Rf = .51867)
50)	Styrene	RT:	20.66	Scan:	1863	(New Rf = .87787)
51)	Bromoform	RT:	21.01	Scan:	1898	(New Rf = .30742)
52)	Isopropylbenzene	RT:	21.42	Scan:	1939	(New Rf =1.57049)
53)	p-BROMOFLUOROBENZENE	RT:	21.72	Scan:	1969	(New Rf = .49434)
54)	Bromobenzene	RT:	21.97	Scan:	1994	(New Rf = .43701)
55)	1,2,3-Trichloropropane	RT:	22.21	Scan:	2018	(New Rf = .35083)
56)	1,1,2,2-Tetrachloroethane	RT:	22.20	Scan:	2017	(New Rf = .34981)
57)	n-Propylbenzene	RT:	22.31	Scan:	2028	(New Rf = .37244)
58)	2-Chlorotoluene	RT:	22.43	Scan:	2040	(New Rf = .34486)
59)	4-Chlorotoluene	RT:	22.68	Scan:	2065	(New Rf = .35924)
60)	1,3,5-Trimethylbenzene	RT:	22.73	Scan:	2070	(New Rf =1.37925)
61)	tert-Butylbenzene	RT:	23.40	Scan:	2137	(New Rf =1.04130)
62)	1,2,4-Trimethylbenzene	RT:	23.52	Scan:	2149	(New Rf =1.39665)
63)	sec-Butylbenzene	RT:	23.89	Scan:	2186	(New Rf =1.64445)
64)	1,3-Dichlorobenzene	RT:	24.06	Scan:	2203	(New Rf = .74421)
65)	1,4-Dichlorobenzene	RT:	24.27	Scan:	2224	(New Rf = .77978)
66)	p-Isopropyltoluene	RT:	24.25	Scan:	2222	(New Rf =1.34838)
67)	1,2-DICHLOROBENZENE-D4	RT:	25.03	Scan:	2300	(New Rf = .49904)
68)	1,2-Dichlorobenzene	RT:	25.06	Scan:	2303	(New Rf = .70380)
69)	n-Butylbenzene	RT:	25.16	Scan:	2313	(New Rf =1.39322)
70)	1,2-Dibromo-3-chloropropane	RT:	26.85	Scan:	2482	(New Rf = .07554)
71)	1,2,4-Trichlorobenzene	RT:	28.69	Scan:	2666	(New Rf = .51392)
72)	Naphthalene	RT:	29.20	Scan:	2717	(New Rf =1.01832)
73)	Hexachlorobutadiene	RT:	29.12	Scan:	2709	(New Rf = .32299)
74)	1,2,3-Trichlorobenzene	RT:	29.76	Scan:	2773	(New Rf = .47452)

Done

QUANT REPORT

Operator ID: TONY Quant Rev: 7 Quant Time: 930527 11:04
Output File: ^AG269::D5 Injected at: 930527 10:31
Data File: >AG269::D4 Dilution Factor: 1.00000
Name: 50 PPB CC STD. Instrument ID: HP MS#4
Misc: 5/27/93, HP MS#4, 5mL PURGE

ID File: IDAG10::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54 Last Qcal Time: 930527 09:51

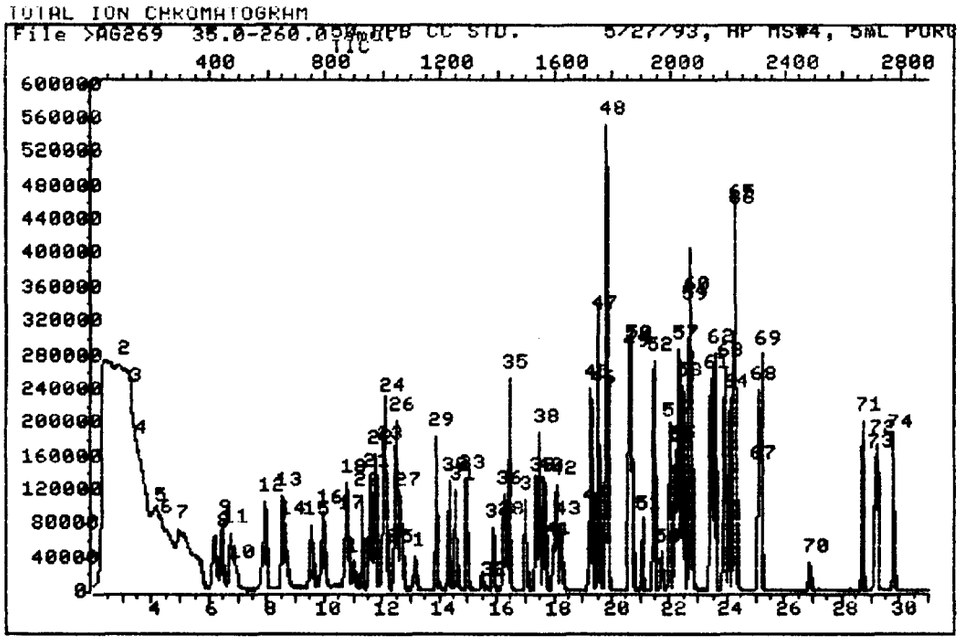
	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.12	96.0	82761	10.00	ug/L	94
2)	Dichlorodifluoromethane	2.88	85.0	176427M	47.59	ug/L	97
3)	Chloromethane	3.27	50.0	171948M	48.68	ug/L	
4)	Vinyl chloride	3.48	62.0	156286M	46.77	ug/L	94
5)	Bromomethane	4.19	94.0	113981M	48.45	ug/L	99
6)	Chloroethane	4.38	64.0	72490	46.55	ug/L	95
7)	Trichlorofluoromethane	4.93	101.0	234885	48.89	ug/L	98
8)	Acrolein	6.38	56.0	3289M	298.63	ug/L	
9)	1,1-Dichloroethene	6.41	96.0	110818	48.82	ug/L	98
10)	Acetone	6.90	43.0	97861M	225.42	ug/L	94
11)	Carbon disulfide	6.72	76.0	327483	48.41	ug/L	99
12)	Methylene chloride	7.89	84.0	137130	49.53	ug/L	92
13)	trans-1,2-Dichloroethene	8.50	96.0	120138	48.60	ug/L	93
14)	Acrylonitrile	8.64	53.0	183176	237.53	ug/L	92
15)	1,1-Dichloroethane	9.49	63.0	219640	49.80	ug/L	99
16)	Vinyl acetate	9.92	43.0	119664	115.54	ug/L	100
17)	2,2-Dichloropropane	10.71	77.0	158080	50.55	ug/L	93
18)	cis-1,2-Dichloroethene	10.79	96.0	116801	50.46	ug/L	99
19)	2-Butanone	11.00	43.0	131906	255.93	ug/L	78
20)	Bromochloromethane	11.27	128.0	79831	56.17	ug/L	99
21)	Chloroform	11.56	83.0	291305	49.93	ug/L	98
22)	1,1,1-Trichloroethane	11.73	97.0	238506	49.38	ug/L	96
23)	Carbon tetrachloride	12.04	117.0	176524	49.60	ug/L	94
24)	1,1-Dichloropropene	12.09	75.0	182876	49.94	ug/L	98
25)	BENZENE-D6	12.41	84.0	78804	10.01	ug/L	99
26)	Benzene	12.49	78.0	437306	49.34	ug/L	98
27)	1,2-Dichloroethane	12.63	62.0	246040	49.76	ug/L	96
28)	*TOLUENE-D8	16.27	98.0	81740	10.00	ug/L	89
29)	Trichloroethene	13.85	95.0	159761	49.11	ug/L	90
30)	1,2-Dichloropropane	14.30	63.0	118479	50.46	ug/L	97
31)	Dibromomethane	14.54	174.0	107985	49.87	ug/L	96
32)	2-Chloroethyl vinylether	15.64	63.0	5163	49.58	ug/L	92
33)	Bromodichloromethane	14.94	83.0	215051	49.74	ug/L	98
34)	cis-1,3-Dichloropropene	15.82	75.0	102277	24.97	ug/L	94
35)	Toluene	16.40	92.0	254569	48.79	ug/L	91
36)	4-Methyl-2-pentanone	16.22	43.0	192158	95.37	ug/L	90
37)	trans-1,3-Dichloropropene	17.00	75.0	79832	21.91	ug/L	99
38)	Tetrachloroethene	17.46	166.0	140743	49.59	ug/L	98
39)	1,1,2-Trichloroethane	17.32	132.0	10386	50.84	ug/L	92
40)	1,3-Dichloropropane	17.63	76.0	186548	49.28	ug/L	99

Operator ID: TONY Quant Rev: 7 Quant Time: 930527 11:04
Output File: ^AG269::D5 Injected at: 930527 10:31
Data File: >AG269::D4 Dilution Factor: 1.00000
Name: 50 PPB CC STD. Instrument ID: HP MS#4
Misc: 5/27/93, HP MS#4, 5mL PURGE

ID File: IDAG10::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54 Last Qcal Time: 930527 09:51

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	2-Hexanone	17.92	43.0	125015	108.47	ug/L	91
42)	Dibromochloromethane	18.07	129.0	147689	50.20	ug/L	98
43)	1,2-Dibromoethane	18.22	107.0	126583	48.57	ug/L	99
44)	*CHLOROBENZENE-D5	19.20	117.0	62356	10.00	ug/L	97
45)	Chlorobenzene	19.25	112.0	291418	49.18	ug/L	94
46)	1,1,1,2-Tetrachloroethane	19.48	131.0	121162	49.77	ug/L	95
47)	Ethylbenzene	19.53	91.0	531821	49.93	ug/L	93
48)	m &/or p-Xylene	19.79	106.0	351226	99.80	ug/L	74
49)	o-Xylene	20.60	106.0	161711	49.34	ug/L	90
50)	Styrene	20.66	104.0	273701	49.32	ug/L	90
51)	Bromoform	21.01	173.0	95846	50.66	ug/L	98
52)	Isopropylbenzene	21.42	105.0	489648	49.22	ug/L	90
53)	p-BROMOFLUOROBENZENE	21.72	174.0	30825	9.88	ug/L	98
54)	Bromobenzene	21.97	156.0	136250	49.54	ug/L	98
55)	1,2,3-Trichloropropane	22.21	75.0	109381	49.22	ug/L	88
56)	1,1,2,2-Tetrachloroethane	22.20	83.0	109065	53.93	ug/L	97
57)	n-Propylbenzene	22.31	120.0	116118	49.35	ug/L	98
58)	2-Chlorotoluene	22.43	126.0	107521	49.65	ug/L	92
59)	4-Chlorotoluene	22.68	126.0	112003	49.77	ug/L	89
60)	1,3,5-Trimethylbenzene	22.73	105.0	430024	50.06	ug/L	77
61)	tert-Butylbenzene	23.40	119.0	324655	49.36	ug/L	79
62)	1,2,4-Trimethylbenzene	23.52	105.0	435449	49.36	ug/L	81
63)	sec-Butylbenzene	23.89	105.0	512706	49.19	ug/L	90
64)	1,3-Dichlorobenzene	24.06	146.0	232029	48.97	ug/L	90
65)	1,4-Dichlorobenzene	24.27	146.0	243119	49.38	ug/L	96
66)	p-Isopropyltoluene	24.25	119.0	420398	49.35	ug/L	88
67)	1,2-DICHLOROBENZENE-D4	25.03	152.0	31118	9.93	ug/L	92
68)	1,2-Dichlorobenzene	25.06	146.0	219431	49.63	ug/L	96
69)	n-Butylbenzene	25.16	91.0	434378	49.34	ug/L	87
70)	1,2-Dibromo-3-chloropropane	26.85	157.0	23553	49.58	ug/L	96
71)	1,2,4-Trichlorobenzene	28.69	180.0	160231	49.84	ug/L	97
72)	Naphthalene	29.20	128.0	317491	48.89	ug/L	100
73)	Hexachlorobutadiene	29.12	225.0	100702	50.07	ug/L	99
74)	1,2,3-Trichlorobenzene	29.76	180.0	147945	49.34	ug/L	94

* Compound is ISTD



Data File: >AG269::D4 Quant Output File: ^AG269::D5
Name: 50 PPB CC STD. Instrument ID: HP MS#4
Misc: 5/27/93, HP MS#4, 5mL PURGE

Id File: IDAG10::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54 Last Qcal Time: 930527 09:51

Operator ID: TONY
Quant Time : 930527 11:04
Injected at: 930527 10:31

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 1187 SAS No.: NA SDG No.: NA

Instrument ID: INCOS1 Calibration date: 05/26/93 Time: 1238

Lab File ID: CC0526B Init. Calib. Date(s): 05/25/93 05/25/93

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

Min RRF15 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 35.0%

COMPOUND		$\overline{RRF}$	RRF15	%D	
Chloromethane	#	0.770	0.552	28.3	#
Bromomethane		0.468	0.379	19.0	
Vinyl Chloride	*	0.907	0.766	15.6	*
Chloroethane		0.512	0.385	24.8	
Methylene Chloride		1.068	1.056	1.1	
Acetone		0.091	0.104	-14.3	
Acrolein		0.003	0.002	33.3	✓
Carbon Disulfide		3.365	3.360	0.1	
Acrylonitrile		0.069	0.082	-18.8	
1,1-Dichloroethene	*	1.622	1.586	2.2	*
1,1-Dichloroethane	#	3.192	3.107	2.7	#
1,2-Dichloroethene (total)		1.719	1.722	-0.2	
Chloroform	*	3.282	3.279	0.1	*
1,2-Dichloroethane		1.385	1.415	-2.2	
2-Butanone		0.014	0.017	-21.4	
1,1,1-Trichloroethane		0.944	0.965	-2.2	
Carbon Tetrachloride		0.142	0.150	-5.6	
Vinyl acetate		0.063	0.080	-27.0	
Bromodichloromethane		0.816	0.934	-14.5	
1,2-Dichloropropane	*	0.637	0.688	-8.0	*
cis-1,3-Dichloropropene		0.510	0.561	-10.0	
Trichloroethene		0.961	1.012	-5.3	
Dibromochloromethane		0.657	0.792	-20.6	
1,1,2-Trichloroethane		0.367	0.439	-19.6	
Benzene		1.669	1.701	-1.9	
Trans-1,3-Dichloropropene		1.304	1.461	-12.0	
2-Chloroethylvinylether		0.011	0.008	27.3	
Bromoform	#	0.447	0.576	-28.9	#
4-Methyl-2-Pentanone		0.400	0.444	-11.0	
2-Hexanone		0.244	0.296	-21.3	
Tetrachloroethene		1.620	1.625	-0.3	
1,1,2,2-Tetrachloroethane	#	0.519	0.600	-15.6	#
Toluene	*	1.973	1.926	2.4	*
Chlorobenzene	#	2.671	2.719	-1.8	#
Ethylbenzene	*	1.349	1.312	2.7	*
Styrene		2.096	2.194	-4.7	
M-Xylene		1.465	1.404	4.2	
O-&/or P-Xylene		1.363	1.366	-0.2	
Toluene-d8		2.219	2.033	8.4	
Benzene-d6		1.305	1.239	5.1	
1,2-Dichloroethane-d4		1.198	1.116	6.8	

PROCEDURE: TCA DIAGNOSTIC REPORT 5/26/93 13:19:40
DATA FILE: CC0526B
REFERENCE: VP11
NAME LIST: VP INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: VP_IS

< ---- STANDARDS ----- >				< --- PLUS UNKNOWNS --- >				< - LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	3	4	24	6	6	1	27	VP_IS/VP_SURR
3	3	1	24	12	12	8	69	VP_IS/VP_CMPDS1
3	3	1	24	12	12	1	43	VP_IS/VP_CMPDS2
3	3	1	24	12	12	1	38	VP_IS/VP_CMPDS3
3	3	1	24	14	14	1	51	VP_IS/VP_CMPDS4

44 COMPOUNDS PROCESSED, 44 FOUND

< COMPOUND >			< ---------- SEARCH ---------- >					< SAT >		< ------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	VP	1	285	283	283	.	1	971	.	128	283	.	1
2	VP	2	554	553	553	.	4	995	.	77	553	.	1
3	VP	3	673	672	672	.	1	996	.	55	672	.	1
4	VP	4	365	363	363	.	1	978	.	65	363	.	1
5	VP	5	508	507	507	.	1	973	.	84	507	.	1
6	VP	6	700	699	699	.	1	995	.	98	699	.	1
7	VP	7	54	52	53	1	2	990	.	50	53	.	1
8	VP	8	85	83	83	.	1	998	.	94	82	-1	1
9	VP	9	93	91	92	1	2	998	.	62	92	.	1
10	VP	10	125	123	124	1	1	998	.	64	124	.	1
11	VP	11	190	188	188	.	1	977	.	84	188	.	1
12	VP	12	208	206	205	-1	1	934	.	43	205	.	1
13	VP	13	213	211	212	1	2	678	.	56	212	.	1
14	VP	14	235	233	233	.	1	998	.	76	233	.	1
15	VP	15	231	229	229	.	1	994	.	53	228	-1	1
16	VP	16	270	268	268	.	1	964	.	96	268	.	1
17	VP	17	307	305	305	.	1	958	.	63	305	.	1
18	VP	18	329	327	328	1	1	959	.	96	328	.	1
19	VP	19	346	344	344	.	1	951	.	83	344	.	1
20	VP	20	367	365	366	1	1	958	.	62	366	.	1
21	VP	21	365	363	363	.	1	997	.	72	364	1	1
22	VP	22	405	403	403	.	1	943	.	97	403	.	1
23	VP	23	405	403	403	.	1	976	.	117	403	.	1
24	VP	24	422	420	420	.	1	936	.	43	421	1	1
25	VP	25	433	432	431	-1	1	967	.	83	431	.	1
26	VP	26	472	471	471	.	1	984	.	63	471	.	1
27	VP	27	480	479	479	.	1	973	.	75	479	.	1
28	VP	28	497	496	496	.	1	952	.	130	496	.	1
29	VP	29	515	514	514	.	1	964	.	129	514	.	1
30	VP	30	518	517	517	.	1	994	.	97	517	.	1
31	VP	31	513	512	511	-1	1	989	.	78	511	.	1
32	VP	32	518	517	517	.	1	928	.	75	517	.	1
33	VP	33	555	554	554	.	1	913	.	63	553	-1	1
34	VP	34	595	594	594	.	1	948	.	173	594	.	1
35	VP	35	609	608	608	.	1	995	.	43	608	.	1
36	VP	36	656	655	655	.	1	816	.	43	655	.	1
37	VP	37	666	665	665	.	1	901	.	164	665	.	1
38	VP	38	665	664	664	.	1	836	.	83	663	-1	1
39	VP	39	705	704	704	.	1	999	.	92	704	.	1
40	VP	40	740	739	738	-1	1	987	.	112	738	.	1
41	VP	41	797	796	795	-1	1	994	.	106	795	.	1
42	VP	42	913	912	911	-1	1	994	.	104	911	.	1
43	VP	44	920	919	918	-1	1	993	.	106	919	1	1
44	VP	45	948	947	947	.	1	1000	.	106	947	.	1

Quantitation Report File: CC0526B

Data: CC0526B.TI
05/26/93 12:38:00
Sample: CLP,1187,,CC0526B,L,W,,V,CC
Conds.: 45' (3 MIN) TO 220' @ 8'/MIN
Formula: Instrument: INCOS1 Weight: 0.000
Submitted by: Analyst: ZAR Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C040	CARBON DISULFIDE	
15	C043	ACRYLONITRILE	
16	C045	1,1-DICHLOROETHENE	
17	C050	1,1-DICHLOROETHANE	
18	C053	1,2-DICHLOROETHENE (TOTAL)	
19	C060	CHLOROFORM	
20	C065	1,2-DICHLOROETHANE	
21	C110	2-BUTANONE	
22	C115	1,1,1-TRICHLOROETHANE	
23	C120	CARBON TETRACHLORIDE	
24	C125	VINYL ACETATE	
25	C130	BROMODICHLOROMETHANE	
26	C140	1,2-DICHLOROPROPANE	
27	C143	CIS-1,3-DICHLOROPROPENE	
28	C150	TRICHLOROETHENE	
29	C155	DIBROMOCHLOROMETHANE	
30	C160	1,1,2-TRICHLOROETHANE	
31	C165	BENZENE	
32	C172	TRANS-1,3-DICHLOROPROPENE	
33	C175	2-CHLOROETHYLVINYL ETHER	
34	C180	BROMOFORM	
35	C205	4-METHYL-2-PENTANONE	
36	C210	2-HEXANONE	
37	C220	TETRACHLOROETHENE	
38	C225	1,1,2,2-TETRACHLOROETHANE	
39	C230	TOLUENE	
40	C235	CHLOROBENZENE	
41	C240	ETHYL BENZENE	
42	C245	STYRENE	
43	C260	M-XYLENE	
44	C270	O-&/OR P-XYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	283	9:26	1	1.000	A BB	120684.	10.000	UG/L	1.01
2	77	553	18:26	2	1.000	A BB	334450.	10.000	UG/L	1.01
3	55	672	22:24	3	1.000	A BB	213668.	10.000	UG/L	1.01
4	65	363	12:06	1	1.283	A BB	134658.	9.311	UG/L	0.94
5	84	507	16:54	2	0.917	A BB	414518.	9.493	UG/L	0.96
6	98	699	23:18	3	1.040	A BB	434316.	9.162	UG/L	0.93
7	50	53	1:46	1	0.187	A VB	199732.	21.490	UG/L	2.17
8	94	82	2:44	1	0.290	A VB	137161.	24.301	UG/L	2.46
9	62	92	3:04	1	0.325	A BB	277294.	25.342	UG/L	2.56
10	64	124	4:08	1	0.438	A BB	139292.	22.554	UG/L	2.28
11	84	188	6:16	1	0.664	A BB	191107.	14.824	UG/L	1.50
12	43	205	6:50	1	0.724	A BB	94546.	86.198	UG/L	8.72
13	56	212	7:04	1	0.749	A BV	1401.	41.742	UG/L	4.22
14	76	233	7:46	1	0.823	A BB	608230.	14.979	UG/L	1.52
15	53	228	7:36	1	0.806	A BV	74515.	89.392	UG/L	9.04
16	96	268	8:56	1	0.947	A BB	287092.	14.667	UG/L	1.48
17	63	305	10:10	1	1.078	A BB	562377.	14.599	UG/L	1.48
18	96	328	10:56	1	1.159	A BB	311815.	15.027	UG/L	1.52
19	83	344	11:28	1	1.216	A BB	593585.	14.985	UG/L	1.52
20	62	366	12:12	1	1.293	A BB	256214.	15.329	UG/L	1.55
21	72	364	12:08	2	0.658	A BB	42964.	90.292	UG/L	9.14
22	97	403	13:26	2	0.729	A BB	484108.	15.329	UG/L	1.55
23	117	403	13:26	2	0.729	A BV	75105.	15.797	UG/L	1.60
24	43	421	14:02	2	0.761	A VB	80617.	38.363	UG/L	3.88
25	83	431	14:22	2	0.779	A BB	468544.	17.172	UG/L	1.74
26	63	471	15:42	2	0.852	A BB	345071.	16.197	UG/L	1.64
27	75	479	15:58	2	0.866	A BB	455856.	26.723	UG/L	2.70
28	130	496	16:32	2	0.897	A BB	507768.	15.794	UG/L	1.60
29	129	514	17:08	2	0.929	A BB	397251.	18.090	UG/L	1.83
30	97	517	17:14	2	0.935	A BB	220418.	17.940	UG/L	1.82
31	78	511	17:02	2	0.924	A BB	853165.	15.283	UG/L	1.55
32	75	517	17:14	2	0.935	A BB	278558.	6.384	UG/L	0.65
33	63	553	18:26	2	1.000	A BB	3830.	10.538	UG/L	1.07
34	173	594	19:48	2	1.074	A BB	288917.	19.340	UG/L	1.96
35	43	608	20:16	3	0.905	A BB	284706.	33.324	UG/L	3.37
36	43	655	21:50	3	0.975	A BV	189875.	36.397	UG/L	3.68
37	164	665	22:10	3	0.990	A BB	520766.	15.045	UG/L	1.52
38	83	663	22:06	3	0.987	A BB	192291.	17.339	UG/L	1.75
39	92	704	23:28	3	1.048	A BB	617406.	14.644	UG/L	1.48
40	112	738	24:36	3	1.098	A BB	871487.	15.269	UG/L	1.54
41	106	795	26:30	3	1.183	A BB	420499.	14.589	UG/L	1.48
42	104	911	30:22	3	1.356	A BB	703252.	15.699	UG/L	1.59
43	106	919	30:38	3	1.368	A BB	449860.	14.374	UG/L	1.45
44	106	947	31:34	3	1.409	A BB	437768.	15.031	UG/L	1.52

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:30	0.99	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	18:32	0.99	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	22:32	0.99	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:12	0.99	1.284	1.00	9.31	10.00	1.116	1.198	0.93
5	17:00	0.99	0.917	1.00	9.49	10.00	1.239	1.306	0.95
6	23:24	1.00	1.038	1.00	9.16	10.00	2.033	2.218	0.92
7	1:44	1.02	0.182	1.03	21.49	30.00	0.552	0.770	0.72
8	2:48	0.98	0.295	0.98	24.30	30.00	0.379	0.468	0.81
9	3:06	0.99	0.326	1.00	25.34	30.00	0.766	0.907	0.84
10	4:12	0.98	0.442	0.99	22.55	30.00	0.385	0.512	0.75

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	6:20	0.99	0.667	1.00	14.82	15.00	1.056	1.068	0.99
12	6:54	0.99	0.726	1.00	86.20	75.00	0.104	0.091	1.15
13	7:02	1.00	0.740	1.01	41.74	75.00	0.002	0.003	0.56
14	7:50	0.99	0.825	1.00	14.98	15.00	3.360	3.365	1.00
15	7:40	0.99	0.807	1.00	89.39	75.00	0.082	0.069	1.19
16	9:02	0.99	0.951	1.00	14.67	15.00	1.586	1.622	0.98
17	10:16	0.99	1.081	1.00	14.60	15.00	3.107	3.192	0.97
18	11:00	0.99	1.158	1.00	15.03	15.00	1.722	1.719	1.00
19	11:34	0.99	1.218	1.00	14.99	15.00	3.279	3.282	1.00
20	12:18	0.99	1.295	1.00	15.33	15.00	1.415	1.385	1.02
21	12:12	0.99	0.658	1.00	90.29	75.00	0.017	0.014	1.20
22	13:32	0.99	0.730	1.00	15.33	15.00	0.965	0.944	1.02
23	13:32	0.99	0.730	1.00	15.80	15.00	0.150	0.142	1.05
24	14:06	1.00	0.761	1.00	38.36	30.00	0.080	0.063	1.28
25	14:28	0.99	0.781	1.00	17.17	15.00	0.934	0.816	1.14
26	15:48	0.99	0.853	1.00	16.20	15.00	0.688	0.637	1.08
27	16:04	0.99	0.867	1.00	26.72	24.30	0.561	0.510	1.10
28	16:38	0.99	0.897	1.00	15.79	15.00	1.012	0.961	1.05
29	17:14	0.99	0.930	1.00	18.09	15.00	0.792	0.657	1.21
30	17:20	0.99	0.935	1.00	17.94	15.00	0.439	0.367	1.20
31	17:08	0.99	0.924	1.00	15.28	15.00	1.701	1.669	1.02
32	17:20	0.99	0.935	1.00	6.38	5.70	1.461	1.305	1.12
33	18:32	0.99	1.000	1.00	10.54	15.00	0.008	0.011	0.70
34	19:54	0.99	1.074	1.00	19.34	15.00	0.576	0.447	1.29
35	20:22	1.00	0.904	1.00	33.32	30.00	0.444	0.400	1.11
36	21:56	1.00	0.973	1.00	36.40	30.00	0.296	0.244	1.21
37	22:16	1.00	0.988	1.00	15.04	15.00	1.625	1.620	1.00
38	22:14	0.99	0.987	1.00	17.34	15.00	0.600	0.519	1.16
39	23:36	0.99	1.047	1.00	14.64	15.00	1.926	1.973	0.98
40	24:44	0.99	1.098	1.00	15.27	15.00	2.719	2.671	1.02
41	26:40	0.99	1.183	1.00	14.59	15.00	1.312	1.349	0.97
42	30:36	0.99	1.358	1.00	15.70	15.00	2.194	2.097	1.05
43	30:52	0.99	1.370	1.00	14.37	15.00	1.404	1.465	0.96
44	31:50	0.99	1.413	1.00	15.03	15.00	1.366	1.363	1.00

TCA FINISHED, 44 FOUND
FINISHED AT: 5/26/93 13:25:50

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0525ICHK

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 1187 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 0525ICHK

Sample wt/vol: 20.0 (g/mL) ML Lab File ID: 0525ICHK

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/25/93

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	8	
74-83-9	Bromomethane	7	
75-01-4	Vinyl Chloride	8	
75-00-3	Chloroethane	6	
75-09-2	Methylene Chloride	12	
67-64-1	Acetone	22	BJ
107-02-8	Acrolein	2	J
75-15-0	Carbon Disulfide	10	
107-13-1	Acrylonitrile	50	U
75-35-4	1,1-Dichloroethene	8	
75-35-3	1,1-Dichloroethane	8	
540-59-0	1,2-Dichloroethene (total)	17	
67-66-3	Chloroform	8	
107-06-2	1,2-Dichloroethane	9	
78-93-3	2-Butanone	13	J
71-55-6	1,1,1-Trichloroethane	9	
56-23-5	Carbon Tetrachloride	9	
108-05-4	Vinyl acetate	45	
75-27-4	Bromodichloromethane	10	
78-87-5	1,2-Dichloropropane	8	
10061-01-5	cis-1,3-Dichloropropene	16	
79-01-6	Trichloroethene	8	
124-48-1	Dibromochloromethane	10	
79-00-5	1,1,2-Trichloroethane	10	
71-43-2	Benzene	9	
10061-02-6	Trans-1,3-Dichloropropene	4	
110-75-8	2-Chloroethylvinylether	12	
75-25-2	Bromoform	10	
108-10-1	4-Methyl-2-Pentanone	11	
591-78-6	2-Hexanone	15	
127-18-4	Tetrachloroethene	7	
79-34-5	1,1,2,2-Tetrachloroethane	8	
108-88-3	Toluene	7	
108-90-7	Chlorobenzene	8	
100-41-4	Ethylbenzene	7	
100-42-5	Styrene	8	
108-38-3	M-Xylene	7	
95-47-6	O-&/or P-Xylene	17	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0525ICHK

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 1187 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 0525ICHK

Sample wt/vol: _____ (g/mL) ML Lab File ID: 0525ICHK

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

% Moisture: not dec. ____ Date Analyzed: 05/25/93

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

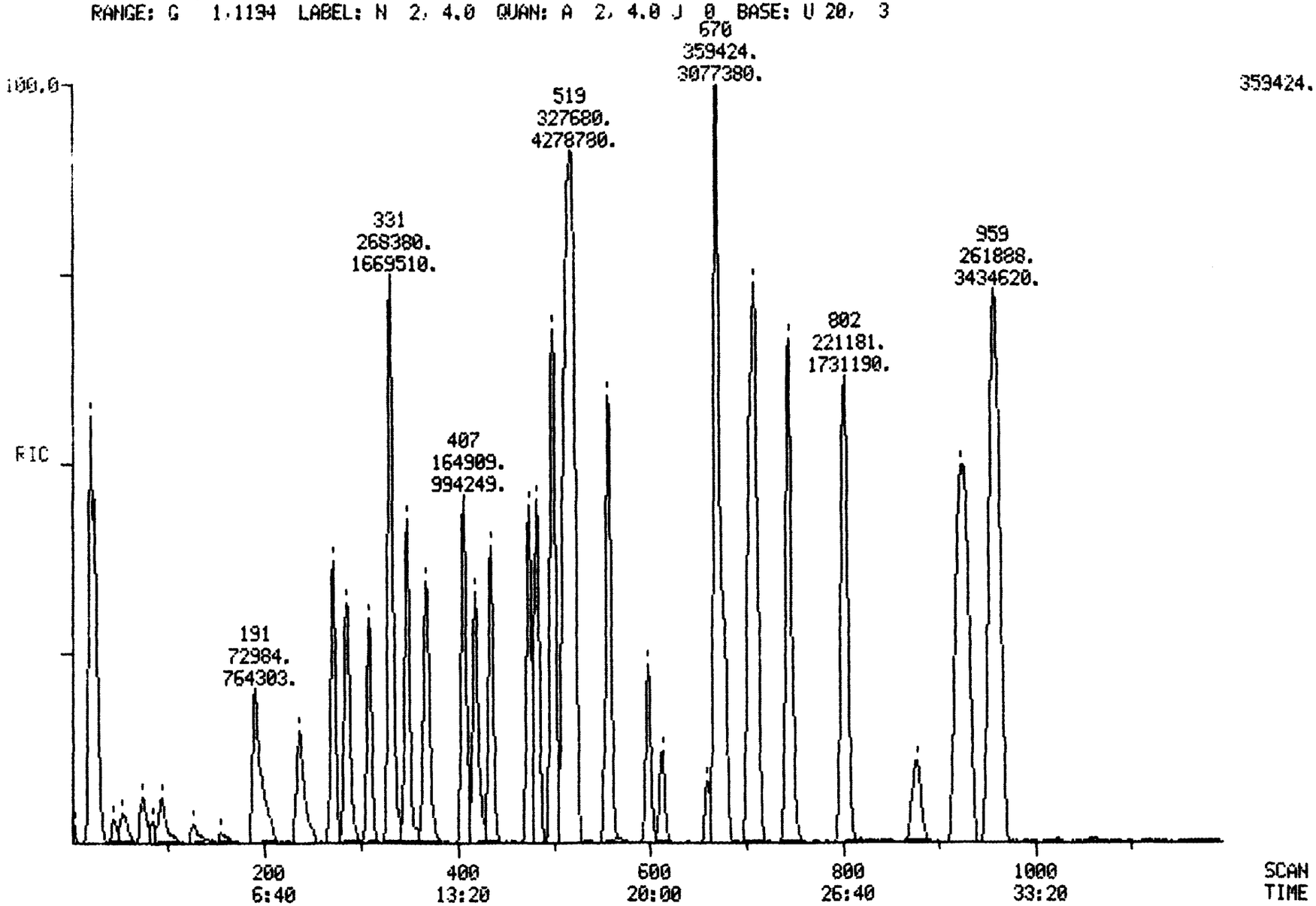
PROCEDURE: TCA DIAGNOSTIC REPORT 5/25/93 21:01:24
DATA FILE: 0525ICHK
REFERENCE: VP11
NAME LIST: VP INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: VP_IS

< ---- STANDARDS ----- ><				--- PLUS UNKNOWNS --- ><				- LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	3	2	55	6	6	1	61	VP_IS/VP_SURR
3	3	1	55	12	9	2	50	VP_IS/VP_CMPDS1
3	3	1	55	12	12	1	52	VP_IS/VP_CMPDS2
3	3	1	55	12	12	1	40	VP_IS/VP_CMPDS3
3	3	1	55	14	13	1	67	VP_IS/VP_CMPDS4

44 COMPOUNDS PROCESSED, 40 FOUND

< COMPOUND ><			---------- SEARCH ----------					>< SAT ><		------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	VP	1	287	286	286	.	1	976	.	128	286	.	1
2	VP	2	558	557	557	.	2	997	.	77	557	.	1
3	VP	3	677	677	677	.	1	991	.	55	677	.	1
4	VP	4	367	366	367	1	1	988	.	65	367	.	1
5	VP	5	511	510	511	1	1	977	.	84	511	.	1
6	VP	6	704	704	703	-1	1	1000	.	98	703	.	1
7	VP	7	-56	54	54	.	2	993	.	50	54	.	1
8	VP	8	-86	84	85	1	1	993	.	94	85	.	1
9	VP	9	-96	94	94	.	1	994	.	62	94	.	1
10	VP	10	-128	126	126	.	1	997	.	64	126	.	1
11	VP	11	192	191	191	.	1	984	.	84	191	.	1
12	VP	12	-210	209	.	.	.	.	.	43	208	.	1
13	VP	13	-214	213	.	.	.	.	.	56	215	.	1
14	VP	14	239	238	237	-1	1	997	.	76	237	.	1
15	VP	15	-234	233	.	.	.	.	.	53	.	.	.
16	VP	16	-272	271	272	1	1	969	.	96	272	.	1
17	VP	17	-310	309	309	.	1	966	.	63	309	.	1
18	VP	18	-332	331	331	.	1	973	.	96	331	.	1
19	VP	19	-349	348	348	.	1	960	.	83	348	.	1
20	VP	20	-370	369	369	.	1	960	.	62	370	1	1
21	VP	21	369	368	367	-1	1	994	.	72	367	.	1
22	VP	22	-408	407	407	.	1	951	.	97	407	.	1
23	VP	23	-408	407	407	.	1	988	.	117	407	.	1
24	VP	24	-425	424	424	.	1	959	.	43	425	1	1
25	VP	25	-436	435	435	.	1	976	.	83	435	.	1
26	VP	26	-476	475	475	.	1	988	.	63	475	.	1
27	VP	27	-484	483	483	.	1	976	.	75	483	.	1
28	VP	28	501	500	500	.	1	957	.	130	500	.	1
29	VP	29	-519	518	518	.	1	961	.	129	518	.	1
30	VP	30	-522	521	521	.	1	993	.	97	521	.	1
31	VP	31	-516	515	515	.	1	990	.	78	515	.	1
32	VP	32	-521	520	521	1	1	936	.	75	521	.	1
33	VP	33	-558	557	558	1	1	925	.	63	557	-1	1
34	VP	34	-600	599	599	.	1	963	.	173	599	.	1
35	VP	35	-614	613	613	.	1	997	.	43	613	.	1
36	VP	36	-661	660	.	.	.	.	.	43	659	.	1
37	VP	37	-671	670	670	.	1	908	.	164	670	.	1
38	VP	38	-670	669	669	.	1	831	.	83	668	-1	1
39	VP	39	-711	710	709	-1	1	999	.	92	709	.	1
40	VP	40	-745	744	744	.	1	987	.	112	744	.	1
41	VP	41	-802	801	802	1	1	994	.	106	802	.	1
42	VP	42	924	923	922	-1	1	995	.	104	921	-1	1
43	VP	44	930	929	929	.	1	995	.	106	930	1	1
44	VP	45	959	958	959	1	1	1000	.	106	959	.	1

RIC DATA: 0525ICHK #1 SCANS 1 TO 1194
05/25/93 20:19:00 CALI: 0525ICHK #3
SAMPLE: CLP,1187,,0525ICHK,L,W,,V,EPA
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
RANGE: G 1,1194 LABEL: N 2, 4.0 QUAN: A 2, 4.0 J 0 BASE: U 20, 3



359424.

Quantitation Report File: 0525ICHK

Data: 0525ICHK.TI
05/25/93 20:19:00
Sample: CLP,1187,,0525ICHK,L,W,,V,EPA
Conds.: 45' (3 MIN) TO 220' @ 8'/MIN
Formula: Instrument: INCOS1 Weight: 0.000
Submitted by: Analyst: ZAR Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C040	CARBON DISULFIDE	
15	C043	ACRYLONITRILE	
16	C045	1,1-DICHLOROETHENE	
17	C050	1,1-DICHLOROETHANE	
18	C053	1,2-DICHLOROETHENE (TOTAL)	
19	C060	CHLOROFORM	
20	C065	1,2-DICHLOROETHANE	
21	C110	2-BUTANONE	
22	C115	1,1,1-TRICHLOROETHANE	
23	C120	CARBON TETRACHLORIDE	
24	C125	VINYL ACETATE	
25	C130	BROMODICHLOROMETHANE	
26	C140	1,2-DICHLOROPROPANE	
27	C143	CIS-1,3-DICHLOROPROPENE	
28	C150	TRICHLOROETHENE	
29	C155	DIBROMOCHLOROMETHANE	
30	C160	1,1,2-TRICHLOROETHANE	
31	C165	BENZENE	
32	C172	TRANS-1,3-DICHLOROPROPENE	
33	C175	2-CHLOROETHYLVINYL ETHER	
34	C180	BROMOFORM	
35	C205	4-METHYL-2-PENTANONE	
36	C210	2-HEXANONE	
37	C220	TETRACHLOROETHENE	
38	C225	1,1,2,2-TETRACHLOROETHANE	
39	C230	TOLUENE	
40	C235	CHLOROBENZENE	
41	C240	ETHYL BENZENE	
42	C245	STYRENE	
43	C260	M-XYLENE	
44	C270	O-&/OR P-XYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	286	9:32	1	1.000	A BB	119691.	10.000 UG/L	2.21
2	77	557	18:34	2	1.000	A BB	360793.	10.000 UG/L	2.21
3	55	677	22:34	3	1.000	A BB	251214.	10.000 UG/L	2.21
4	65	367	12:14	1	1.283	A BB	152781.	10.652 UG/L	2.35
5	84	511	17:02	2	0.917	A VB	450846.	9.572 UG/L	2.12
6	98	703	23:26	3	1.038	A BB	449899.	8.073 UG/L	1.78
7	50	54	1:48	1	0.189	A VB	70385.	7.636 UG/L	1.69
8	94	85	2:50	1	0.297	A VB	39989.	7.144 UG/L	1.58
9	62	94	3:08	1	0.329	A BB	81963.	7.553 UG/L	1.67
10	64	126	4:12	1	0.441	A BB	39007.	6.368 UG/L	1.41
11	84	191	6:22	1	0.668	A BB	156693.	12.255 UG/L	2.71
12	43	208	6:56	1	0.727	A BB	24403.	22.433 UG/L	4.96
13	56	215	7:10	1	0.752	A BB	55.	1.652 UG/L	0.37
14	76	237	7:54	1	0.829	A BB	387617.	9.625 UG/L	2.13
15	NOT FOUND								
16	96	272	9:04	1	0.951	A BB	164864.	8.492 UG/L	1.88
17	63	309	10:18	1	1.080	A BB	302129.	7.908 UG/L	1.75
18	96	331	11:02	1	1.157	A BB	353042.	17.155 UG/L	3.79
19	83	348	11:36	1	1.217	A BB	321721.	8.189 UG/L	1.81
20	62	370	12:20	1	1.294	A BB	154653.	9.329 UG/L	2.06
21	72	367	12:14	2	0.659	A BB	6808.	13.264 UG/L	2.93
22	97	407	13:34	2	0.731	A BB	301468.	8.849 UG/L	1.96
23	117	407	13:34	2	0.731	A BV	46255.	9.019 UG/L	1.99
24	43	425	14:10	2	0.763	A BB	101198.	44.640 UG/L	9.87
25	83	435	14:30	2	0.781	A BB	280003.	9.513 UG/L	2.10
26	63	475	15:50	2	0.853	A BB	188820.	8.216 UG/L	1.82
27	75	483	16:06	2	0.867	A BB	293731.	15.962 UG/L	3.53
28	130	500	16:40	2	0.898	A BB	293934.	8.475 UG/L	1.87
29	129	518	17:16	2	0.930	A BB	247393.	10.444 UG/L	2.31
30	97	521	17:22	2	0.935	A BB	132248.	9.978 UG/L	2.21
31	78	515	17:10	2	0.925	A BB	535086.	8.885 UG/L	1.96
32	75	521	17:22	2	0.935	A BB	187141.	3.976 UG/L	0.88
33	63	557	18:34	2	1.000	A BB	4655.	11.873 UG/L	2.62
34	173	599	19:58	2	1.075	A BB	165932.	10.296 UG/L	2.28
35	43	613	20:26	3	0.905	A BB	114660.	11.415 UG/L	2.52
36	43	659	21:58	3	0.973	A BB	89960.	14.667 UG/L	3.24
37	164	670	22:20	3	0.990	A BB	290472.	7.137 UG/L	1.58
38	83	668	22:16	3	0.987	A BB	107166.	8.219 UG/L	1.82
39	92	709	23:38	3	1.047	A BB	363359.	7.330 UG/L	1.62
40	112	744	24:48	3	1.099	A BB	526018.	7.839 UG/L	1.73
41	106	802	26:44	3	1.185	A BB	235313.	6.944 UG/L	1.53
42	104	921	30:42	3	1.360	A BB	424196.	8.054 UG/L	1.78
43	106	930	31:00	3	1.374	A BB	241980.	6.576 UG/L	1.45
44	106	959	31:58	3	1.417	A BB	574036.	16.763 UG/L	3.71

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:30	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	18:32	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	22:32	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:12	1.00	1.284	1.00	10.65	10.00	1.276	1.198	1.07
5	17:00	1.00	0.917	1.00	9.57	10.00	1.250	1.306	0.96
6	23:24	1.00	1.038	1.00	8.07	10.00	1.791	2.218	0.81
7	1:44	1.04	0.182	1.03	7.64	30.00	0.196	0.770	0.25
8	2:48	1.01	0.295	1.01	7.14	30.00	0.111	0.468	0.24
9	3:06	1.01	0.326	1.01	7.55	30.00	0.228	0.907	0.25
10	4:12	1.00	0.442	1.00	6.37	30.00	0.109	0.512	0.21

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
11	6:20	1.01	0.667	1.00	12.26	15.00	0.873	1.068	0.82
12	6:54	1.00	0.726	1.00	22.43	75.00	0.027	0.091	0.30
13	7:02	1.02	0.740	1.02	1.65	75.00	0.000	0.003	0.02
14	7:50	1.01	0.825	1.00	9.63	15.00	2.159	3.365	0.64
15	7:40		0.807						
16	9:02	1.00	0.951	1.00	8.49	15.00	0.918	1.622	0.57
17	10:16	1.00	1.081	1.00	7.91	15.00	1.683	3.192	0.53
18	11:00	1.00	1.158	1.00	17.15	15.00	1.966	1.719	1.14
19	11:34	1.00	1.218	1.00	8.19	15.00	1.792	3.282	0.55
20	12:18	1.00	1.295	1.00	9.33	15.00	0.861	1.385	0.62
21	12:12	1.00	0.658	1.00	13.26	75.00	0.003	0.014	0.18
22	13:32	1.00	0.730	1.00	8.85	15.00	0.557	0.944	0.59
23	13:32	1.00	0.730	1.00	9.02	15.00	0.085	0.142	0.60
24	14:06	1.00	0.761	1.00	44.64	30.00	0.093	0.063	1.49
25	14:28	1.00	0.781	1.00	9.51	15.00	0.517	0.816	0.63
26	15:48	1.00	0.853	1.00	8.22	15.00	0.349	0.637	0.55
27	16:04	1.00	0.867	1.00	15.96	24.30	0.335	0.510	0.66
28	16:38	1.00	0.897	1.00	8.48	15.00	0.543	0.961	0.57
29	17:14	1.00	0.930	1.00	10.44	15.00	0.457	0.657	0.70
30	17:20	1.00	0.935	1.00	9.98	15.00	0.244	0.367	0.67
31	17:08	1.00	0.924	1.00	8.89	15.00	0.989	1.669	0.59
32	17:20	1.00	0.935	1.00	3.98	5.70	0.910	1.305	0.70
33	18:32	1.00	1.000	1.00	11.87	15.00	0.009	0.011	0.79
34	19:54	1.00	1.074	1.00	10.30	15.00	0.307	0.447	0.69
35	20:22	1.00	0.904	1.00	11.41	30.00	0.152	0.400	0.38
36	21:56	1.00	0.973	1.00	14.67	30.00	0.119	0.244	0.49
37	22:16	1.00	0.988	1.00	7.14	15.00	0.771	1.620	0.48
38	22:14	1.00	0.987	1.00	8.22	15.00	0.284	0.519	0.55
39	23:36	1.00	1.047	1.00	7.33	15.00	0.964	1.973	0.49
40	24:44	1.00	1.098	1.00	7.84	15.00	1.396	2.671	0.52
41	26:40	1.00	1.183	1.00	6.94	15.00	0.624	1.349	0.46
42	30:36	1.00	1.358	1.00	8.05	15.00	1.126	2.097	0.54
43	30:52	1.00	1.370	1.00	6.58	15.00	0.642	1.465	0.44
44	31:50	1.00	1.413	1.00	16.76	15.00	1.523	1.363	1.12

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

IC CHECK 51793

Lab Name: H. O. D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: IC CHECK 51793

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG192

Level: (low/med) LOW Date Received: 05/17/93

% Moisture: not dec. ---- Date Analyzed: 05/17/93

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	6	
74-87-3	Chloromethane	7	
75-01-4	Vinyl chloride	7	
74-83-9	Bromomethane	8	
75-00-3	Chloroethane	9	
75-69-4	Trichlorofluoromethane	8	
107-64-1	Acrolein	10	U
75-35-4	1,1-Dichloroethene	6	
67-64-1	Acetone	8	J
75-15-0	Carbon disulfide	2	U
75-09-2	Methylene chloride	8	
75-35-4	trans-1,2-Dichloroethene	7	
107-13-1	Acrylonitrile	3	J
75-34-3	1,1-Dichloroethane	11	
108-05-4	Vinyl acetate	10	U
594-20-7	2,2-Dichloropropane	7	
540-59-0	cis-1,2-Dichloroethene	7	
78-93-3	2-Butanone	8	J
74-97-5	Bromochloromethane	8	
67-66-3	Chloroform	8	
71-55-6	1,1,1-Trichloroethane	7	
56-23-5	Carbon tetrachloride	6	
563-58-6	1,1-Dichloropropene	7	
71-43-2	Benzene	7	
107-06-2	1,2-Dichloroethane	7	
79-01-6	Trichloroethene	8	
78-87-5	1,2-Dichloropropane	8	
74-95-3	Dibromomethane	8	
110-75-8	2-Chloroethyl vinylether	10	U
75-27-4	Bromodichloromethane	8	
10061015	cis-1,3-Dichloropropene	7	
108-88-3	Toluene	8	
108-10-1	4-Methyl-2-pentanone	3	J
10061026	trans-1,3-Dichloropropene	8	

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

IC CHECK 51793

Lab Name: H. O. D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: IC CHECK 51793

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG192

Level: (low/med) LOW Date Received: 05/17/93

% Moisture: not dec. ---- Date Analyzed: 05/17/93

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	8	
79-00-5	1,1,2-Trichloroethane	8	
142-28-9	1,3-Dichloropropane	8	
591-78-6	2-Hexanone	4	J
124-48-1	Dibromochloromethane	8	
106-93-4	1,2-Dibromoethane	8	
108-90-7	Chlorobenzene	8	
630-20-6	1,1,1,2-Tetrachloroethane	8	
100-41-4	Ethylbenzene	8	
108-38-3	m &/or p-Xylene	15	
95-47-6	o-Xylene	8	
100-42-5	Styrene	9	
75-25-2	Bromoform	7	
98-82-8	Isopropylbenzene	7	
108-86-1	Bromobenzene	8	
96-18-4	1,2,3-Trichloropropane	9	
79-34-5	1,1,2,2-Tetrachloroethane	8	
103-65-1	n-Propylbenzene	7	
95-49-8	2-Chlorotoluene	8	
106-43-4	4-Chlorotoluene	8	
108-67-8	1,3,5-Trimethylbenzene	8	
98-06-6	tert-Butylbenzene	7	
95-63-6	1,2,4-Trimethylbenzene	7	
135-98-8	sec-Butylbenzene	7	
541-73-1	1,3-Dichlorobenzene	8	
106-46-7	1,4-Dichlorobenzene	8	
99-87-6	p-Isopropyltoluene	7	
95-50-1	1,2-Dichlorobenzene	8	
104-51-8	n-Butylbenzene	7	
96-12-8	1,2-Dibromo-3-chloropropane	9	
120-82-1	1,2,4-Trichlorobenzene	9	
91-20-3	Naphthalene	10	
87-68-3	Hexachlorobutadiene	8	
87-61-6	1,2,3-Trichlorobenzene	10	

QUANT REPORT

Operator ID: TONY
Output File: ^AG192::D2
Data File: >AG192::D5
Name: VOASTD CALCHKECK
Misc: 05/17/93 #8

Quant Rev: 7
Quant Time: 930616 10:06
Injected at: 930517 19:41
Dilution Factor: 1.00000
Instrument ID: HP MS#4

ID File: IDAG05::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930615 17:37

Last Qcal Time: <none>

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.14	96.0	42719	10.00	ug/L	92
2)	Dichlorodifluoromethane	2.54	85.0	3094	6.03	ug/L	87
3)	Chloromethane	2.95	50.0	3430	6.77	ug/L	97
4)	Vinyl chloride	3.24	62.0	5695M	6.87	ug/L	94
5)	Bromomethane	4.02	94.0	5252M	8.25	ug/L	90
6)	Chloroethane	4.34	64.0	3953M	8.88	ug/L	99
7)	Trichlorofluoromethane	5.05	101.0	3720M	7.96	ug/L	
9)	1,1-Dichloroethene	6.54	96.0	3333	6.19	ug/L	89
10)	Acetone	6.99	43.0	5905	7.75	ug/L	88
12)	Methylene chloride	7.97	84.0	7087	8.49	ug/L	99
13)	trans-1,2-Dichloroethene	8.58	96.0	8477	7.12	ug/L	95
14)	Acrylonitrile	8.73	53.0	1740	3.45	ug/L	96
15)	1,1-Dichloroethane	9.56	63.0	5952	11.41	ug/L	89
17)	2,2-Dichloropropane	10.74	77.0	15558	7.25	ug/L	97
18)	cis-1,2-Dichloroethene	10.84	96.0	7333	7.11	ug/L	96
19)	2-Butanone	11.05	43.0	4727	7.64	ug/L	87
20)	Bromochloromethane	11.31	128.0	4657	7.96	ug/L	96
21)	Chloroform	11.59	83.0	19604	7.73	ug/L	98
22)	1,1,1-Trichloroethane	11.76	97.0	18557	7.19	ug/L	95
23)	Carbon tetrachloride	12.04	117.0	11958	6.45	ug/L	91
24)	1,1-Dichloropropene	12.10	75.0	13414	6.89	ug/L	94
25)	BENZENE-D6	12.44	84.0	41997	10.05	ug/L	91
26)	Benzene	12.52	78.0	34148	7.45	ug/L	99
27)	1,2-Dichloroethane	12.66	62.0	18910	7.37	ug/L	95
28)	*TOLUENE-D8	16.28	98.0	40832	10.00	ug/L	97
29)	Trichloroethene	13.87	95.0	14771	8.14	ug/L	87
30)	1,2-Dichloropropane	14.32	63.0	10246	8.40	ug/L	98
31)	Dibromomethane	14.56	174.0	8821	8.16	ug/L	97
33)	Bromodichloromethane	14.94	83.0	16466	7.68	ug/L	96
34)	cis-1,3-Dichloropropene	15.83	75.0	15410	7.48	ug/L	92
35)	Toluene	16.41	92.0	19565	7.74	ug/L	92
36)	4-Methyl-2-pentanone	16.25	43.0	4192	3.27	ug/L	92
37)	trans-1,3-Dichloropropene	17.00	75.0	15525	8.18	ug/L	96
38)	Tetrachloroethene	17.47	166.0	10252	7.63	ug/L	98
39)	1,1,2-Trichloroethane	17.34	132.0	795M	8.36	ug/L	
40)	1,3-Dichloropropane	17.63	76.0	16102	8.23	ug/L	98
41)	2-Hexanone	17.94	43.0	3849	4.07	ug/L	89
42)	Dibromochloromethane	18.07	129.0	11753	7.92	ug/L	96
43)	1,2-Dibromoethane	18.23	107.0	11095	8.25	ug/L	98
44)	*CHLOROBENZENE-D5	19.20	117.0	31135	10.00	ug/L	97

Operator ID: TONY
Output File: ^AG192::D2
Data File: >AG192::D5
Name: VOASTD CALCHKECK
Misc: 05/17/93 #8

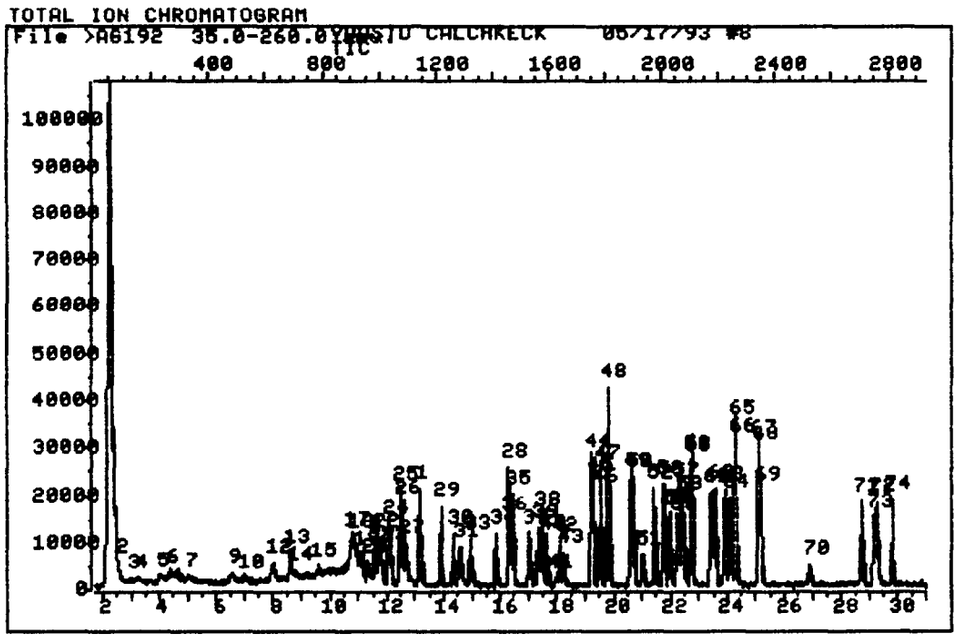
Quant Rev: 7
Quant Time: 930616 10:06
Injected at: 930517 19:41
Dilution Factor: 1.00000
Instrument ID: HP MS#4

ID File: IDAG05::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930615 17:37
Last Qcal Time: <none>

	Compound	R.T.	Q ion	Area	Conc	Units	q
45)	Chlorobenzene	19.26	112.0	22917	7.99	ug/L	90
46)	1,1,1,2-Tetrachloroethane	19.49	131.0	9129	7.93	ug/L	82
47)	Ethylbenzene	19.53	91.0	40125	7.61	ug/L	95
48)	m &/or p-Xylene	19.79	106.0	25869	15.05	ug/L	79
49)	o-Xylene	20.60	106.0	12669	7.94	ug/L	93
50)	Styrene	20.66	104.0	22790	8.58	ug/L	88
51)	Bromoform	21.01	173.0	7027	7.14	ug/L	98
52)	Isopropylbenzene	21.42	105.0	34605	7.09	ug/L	95
53)	p-BROMOFLUOROBENZENE	21.73	174.0	14590	9.54	ug/L	96
54)	Bromobenzene	21.99	156.0	11027	7.99	ug/L	93
55)	1,2,3-Trichloropropane	22.22	75.0	11908	8.93	ug/L	87
56)	1,1,2,2-Tetrachloroethane	22.21	83.0	7314	7.59	ug/L	97
57)	n-Propylbenzene	22.32	120.0	8517	7.31	ug/L	94
58)	2-Chlorotoluene	22.43	126.0	8206	7.64	ug/L	92
59)	4-Chlorotoluene	22.69	126.0	8958	7.95	ug/L	90
60)	1,3,5-Trimethylbenzene	22.74	105.0	32051	7.51	ug/L	83
61)	tert-Butylbenzene	23.42	119.0	24622	7.43	ug/L	77
62)	1,2,4-Trimethylbenzene	23.54	105.0	32071	7.44	ug/L	81
63)	sec-Butylbenzene	23.89	105.0	36594	7.20	ug/L	94
64)	1,3-Dichlorobenzene	24.07	146.0	18766	7.74	ug/L	88
65)	1,4-Dichlorobenzene	24.28	146.0	19605	7.77	ug/L	96
66)	p-Isopropyltoluene	24.25	119.0	29844	6.90	ug/L	85
67)	1,2-DICHLOROBENZENE-D4	25.04	152.0	14992	9.40	ug/L	90
68)	1,2-Dichlorobenzene	25.08	146.0	18544	8.09	ug/L	94
69)	n-Butylbenzene	25.17	91.0	30331	6.73	ug/L	90
70)	1,2-Dibromo-3-chloropropane	26.88	157.0	2789	9.09	ug/L	84
71)	1,2,4-Trichlorobenzene	28.70	180.0	14108	8.80	ug/L	95
72)	Naphthalene	29.22	128.0	32614	9.80	ug/L	100
73)	Hexachlorobutadiene	29.14	225.0	9107	8.49	ug/L	97
74)	1,2,3-Trichlorobenzene	29.79	180.0	14774	9.69	ug/L	91

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG192::D5 Quant Output File: ^AG192::D2
Name: VOASTD CALCHKECK Instrument ID: HP MS#4
Misc: 05/17/93 #8

Id File: IDAG05::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930615 17:37 Last Qcal Time: <none>

Operator ID: TONY
Quant Time : 930616 10:06
Injected at: 930517 19:41

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ICAL CHECK

Lab Name: H. O. D. LANDFILL Contract: LOCKHEED/ESAT

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: ICAL CHECK

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG247

Level: (low/med) LOW Date Received: 05/25/93

% Moisture: not dec. ---- Date Analyzed: 05/25/93

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	2	J
74-87-3	Chloromethane	3	U
75-01-4	Vinyl chloride	3	
74-83-9	Bromomethane	3	U
75-00-3	Chloroethane	3	
75-69-4	Trichlorofluoromethane	2	J
107-64-1	Acrolein	10	U
75-35-4	1,1-Dichloroethene	11	
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	2	U
75-09-2	Methylene chloride	15	
75-35-4	trans-1,2-Dichloroethene	11	
107-13-1	Acrylonitrile	10	U
75-34-3	1,1-Dichloroethane	10	
108-05-4	Vinyl acetate	10	U
594-20-7	2,2-Dichloropropane	12	
540-59-0	cis-1,2-Dichloroethene	12	
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	9	
67-66-3	Chloroform	11	
71-55-6	1,1,1-Trichloroethane	11	
56-23-5	Carbon tetrachloride	12	
563-58-6	1,1-Dichloropropene	10	
71-43-2	Benzene	11	
107-06-2	1,2-Dichloroethane	11	
79-01-6	Trichloroethene	11	
78-87-5	1,2-Dichloropropane	11	
74-95-3	Dibromomethane	11	
110-75-8	2-Chloroethyl vinylether	10	U
75-27-4	Bromodichloromethane	11	
10061015	cis-1,3-Dichloropropene	10	
108-88-3	Toluene	11	
108-10-1	4-Methyl-2-pentanone	5	U
10061026	trans-1,3-Dichloropropene	12	

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ICAL CHECK

Lab Name: H. O. D. LANDFILL Contract: LOCKHEED/ESAT

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: ICAL CHECK

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG247

Level: (low/med) LOW Date Received: 05/25/93

% Moisture: not dec. ---- Date Analyzed: 05/25/93

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	11	
79-00-5	1,1,2-Trichloroethane	11	
142-28-9	1,3-Dichloropropane	11	
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	11	
106-93-4	1,2-Dibromoethane	11	
108-90-7	Chlorobenzene	11	
630-20-6	1,1,1,2-Tetrachloroethane	11	
100-41-4	Ethylbenzene	11	
108-38-3	m &/or p-Xylene	22	
95-47-6	o-Xylene	11	
100-42-5	Styrene	12	
75-25-2	Bromoform	11	
98-82-8	Isopropylbenzene	11	
108-86-1	Bromobenzene	11	
96-18-4	1,2,3-Trichloropropane	11	
79-34-5	1,1,2,2-Tetrachloroethane	11	
103-65-1	n-Propylbenzene	11	
95-49-8	2-Chlorotoluene	11	
106-43-4	4-Chlorotoluene	11	
108-67-8	1,3,5-Trimethylbenzene	11	
98-06-6	tert-Butylbenzene	11	
95-63-6	1,2,4-Trimethylbenzene	11	
135-98-8	sec-Butylbenzene	12	
541-73-1	1,3-Dichlorobenzene	11	
106-46-7	1,4-Dichlorobenzene	11	
99-87-6	p-Isopropyltoluene	11	
95-50-1	1,2-Dichlorobenzene	11	
104-51-8	n-Butylbenzene	12	
96-12-8	1,2-Dibromo-3-chloropropane	12	
120-82-1	1,2,4-Trichlorobenzene	12	
91-20-3	Naphthalene	11	
87-68-3	Hexachlorobutadiene	13	
87-61-6	1,2,3-Trichlorobenzene	12	

QUANT REPORT

Operator ID: TONY
Output File: ^AG247::D5
Data File: >AG247::D4
Name: ICAL CHECK
Misc: 5/25/93 HP#4, 5mL PURGE

Quant Rev: 7
Quant Time: 930525 18:51
Injected at: 930525 18:18
Dilution Factor: 1.00000
Instrument ID: HP MS#4

ID File: IDAG08::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54

Last Qcal Time: <none>

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.15	96.0	69770	10.00	ug/L	97
2)	Dichlorodifluoromethane	2.90	85.0	6329	1.97	ug/L	95
4)	Vinyl chloride	3.54	62.0	8966	3.17	ug/L	88
6)	Chloroethane	4.44	64.0	4151	3.04	ug/L	98
7)	Trichlorofluoromethane	5.01	101.0	7699	2.21	ug/L	95
9)	1,1-Dichloroethene	6.48	96.0	21403	11.27	ug/L	97
12)	Methylene chloride	7.95	84.0	35116	14.65	ug/L	98
13)	trans-1,2-Dichloroethene	8.56	96.0	22306	10.76	ug/L	99
15)	1,1-Dichloroethane	9.55	63.0	38610	10.10	ug/L	98
17)	2,2-Dichloropropane	10.74	77.0	31670	11.91	ug/L	92
18)	cis-1,2-Dichloroethene	10.83	96.0	23721	12.14	ug/L	97
20)	Bromochloromethane	11.31	128.0	12247	8.98	ug/L	90
21)	Chloroform	11.58	83.0	52853	10.79	ug/L	94
22)	1,1,1-Trichloroethane	11.75	97.0	44406	11.06	ug/L	95
23)	Carbon tetrachloride	12.06	117.0	33797	11.57	ug/L	93
24)	1,1-Dichloropropene	12.11	75.0	32007	10.38	ug/L	99
25)	BENZENE-D6	12.44	84.0	66796	10.07	ug/L	96
26)	Benzene	12.52	78.0	78635	10.71	ug/L	97
27)	1,2-Dichloroethane	12.66	62.0	44798	10.49	ug/L	98
28)	*TOLUENE-D8	16.29	98.0	66009	10.00	ug/L	98
29)	Trichloroethene	13.87	95.0	31668	11.36	ug/L	85
30)	1,2-Dichloropropane	14.32	63.0	22085	11.27	ug/L	92
31)	Dibromomethane	14.57	174.0	19089	11.17	ug/L	93
33)	Bromodichloromethane	14.97	83.0	37843	10.90	ug/L	97
34)	cis-1,3-Dichloropropene	15.85	75.0	35102	10.43	ug/L	94
35)	Toluene	16.42	92.0	45592	10.84	ug/L	90
37)	trans-1,3-Dichloropropene	17.02	75.0	36325	11.88	ug/L	98
38)	Tetrachloroethene	17.48	166.0	24291	11.43	ug/L	97
39)	1,1,2-Trichloroethane	17.36	132.0	1796	10.78	ug/L	99
40)	1,3-Dichloropropane	17.66	76.0	34693	11.04	ug/L	99
42)	Dibromochloromethane	18.10	129.0	26831	11.33	ug/L	98
43)	1,2-Dibromoethane	18.26	107.0	24607	11.41	ug/L	98
44)	*CHLOROBENZENE-D5	19.23	117.0	52924	10.00	ug/L	94
45)	Chlorobenzene	19.28	112.0	53274	10.76	ug/L	94
46)	1,1,1,2-Tetrachloroethane	19.50	131.0	21150	10.83	ug/L	95
47)	Ethylbenzene	19.55	91.0	95788	10.89	ug/L	93
48)	m &/or p-Xylene	19.81	106.0	62539	21.95	ug/L	76
49)	o-Xylene	20.63	106.0	29714	11.24	ug/L	91
50)	Styrene	20.68	104.0	53025	11.68	ug/L	89
51)	Bromoform	21.05	173.0	17091	11.31	ug/L	96

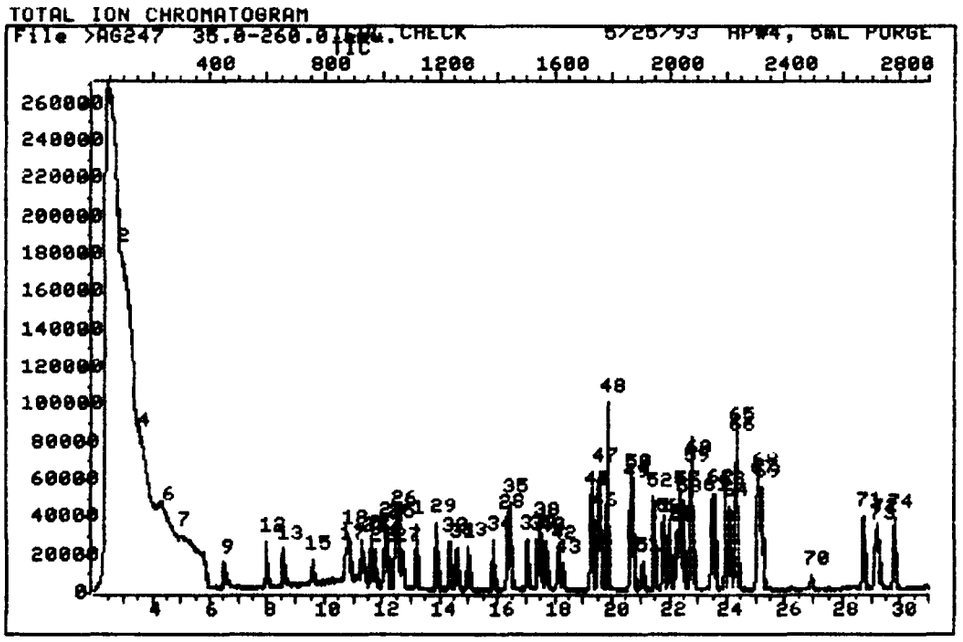
Operator ID: TONY Quant Rev: 7 Quant Time: 930525 18:51
Output File: ^AG247::D5 Injected at: 930525 18:18
Data File: >AG247::D4 Dilution Factor: 1.00000
Name: ICAL CHECK Instrument ID: HP MS#4
Misc: 5/25/93 HP#4, 5mL PURGE

ID File: IDAG08::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54 Last Qcal Time: <none>

	Compound	R.T.	Q ion	Area	Conc	Units	q
52)	Isopropylbenzene	21.45	105.0	84159	10.69	ug/L	91
53)	p-BROMOFLUOROBENZENE	21.75	174.0	24376	9.96	ug/L	98
54)	Bromobenzene	21.99	156.0	24267	10.94	ug/L	98
55)	1,2,3-Trichloropropane	22.23	75.0	22490	11.14	ug/L	86
56)	1,1,2,2-Tetrachloroethane	22.22	83.0	17884	10.63	ug/L	95
57)	n-Propylbenzene	22.34	120.0	21142	11.11	ug/L	98
58)	2-Chlorotoluene	22.45	126.0	19115	10.91	ug/L	89
59)	4-Chlorotoluene	22.70	126.0	20668	11.25	ug/L	90
60)	1,3,5-Trimethylbenzene	22.75	105.0	77258	11.18	ug/L	78
61)	tert-Butylbenzene	23.42	119.0	58534	11.21	ug/L	77
62)	1,2,4-Trimethylbenzene	23.54	105.0	78621	11.17	ug/L	81
63)	sec-Butylbenzene	23.91	105.0	94157	11.74	ug/L	91
64)	1,3-Dichlorobenzene	24.08	146.0	42192	11.01	ug/L	91
65)	1,4-Dichlorobenzene	24.29	146.0	43544	10.99	ug/L	96
66)	p-Isopropyltoluene	24.27	119.0	73693	11.03	ug/L	84
67)	1,2-DICHLOROBENZENE-D4	25.05	152.0	25005	9.86	ug/L	95
68)	1,2-Dichlorobenzene	25.09	146.0	40633	11.30	ug/L	90
69)	n-Butylbenzene	25.18	91.0	81227	11.67	ug/L	88
70)	1,2-Dibromo-3-chloropropane	26.89	157.0	5035	11.89	ug/L	97
71)	1,2,4-Trichlorobenzene	28.71	180.0	29657	11.86	ug/L	95
72)	Naphthalene	29.23	128.0	62038	10.87	ug/L	100
73)	Hexachlorobutadiene	29.15	225.0	19041	13.15	ug/L	96
74)	1,2,3-Trichlorobenzene	29.79	180.0	27835	11.82	ug/L	95

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG247::D4 Quant Output File: ^AG247::D5
Name: ICAL CHECK Instrument ID: HP MS#4
Misc: 5/25/93 HP#4, 5mL PURGE

Id File: IDAG08::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54 Last Qcal Time: <none>

Operator ID: TONY
Quant Time : 930525 18:51
Injected at: 930525 18:18

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: H. O. D. LANDFILL Contract: LOCKHEED/ESAT

Lab code: 5SCRL Case No.: SF1187 SAS No.: --- SDG No.: ---

Lab File ID (Standard): >AG210 Date Analyzed: 05/18/93

Instrument ID: HP MS#4 Time Analyzed: 14:24

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

		IS1(FBZ) AREA #	RT	IS2(TOL) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	66966	13.13	67588	16.26	50033	19.17
	UPPER LIMIT	133932	13.63	135176	16.76	100066	19.67
	LOWER LIMIT	33483	12.63	33794	15.76	25016	18.67
	EPA SAMPLE NO.						
1	LAB BLANK1	52906	13.11	50076	16.26	38360	19.19
2	93ZE06R60	57550	13.08	55630	16.25	43581	19.19
3	93ZE06R61	62787	13.15	59278	16.28	46271	19.19
4	93ZE06R65	66245	13.15	61362	16.28	48365	19.19
5	93ZE06S36	67106	13.15	63503	16.28	49638	19.19
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IS1 (FBZ) = FLUOROBENZENE
IS2 (TOL) = TOLUENE-D8
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

page __ of __.

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: H. O. D. LANDFILL Contract: LOCKHEED/ESAT

Lab code: 5SCRL Case No.: SF1187 SAS No.: --- SDG No.: ---

Lab File ID (Standard): >AG242 Date Analyzed: 05/25/93

Instrument ID: HP MS#4 Time Analyzed: 15:01

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

		IS1(FBZ) AREA #	RT	IS2(TOL) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	79026	13.15	75061	16.29	58094	19.22
	UPPER LIMIT	158052	13.65	150122	16.79	116188	19.72
	LOWER LIMIT	39513	12.65	37530	15.79	29047	18.72
	EPA SAMPLE NO.						
1	LAB BLANK3	68509	13.15	64682	16.29	51848	19.23
2	93ZE06R62	65504	13.13	60468	16.29	49885	19.22
3	93ZE06R63	59843	13.15	56995	16.30	45032	19.23
4	93ZE06R64	58038	13.13	55035	16.29	43379	19.22
5	93ZE06S38	55141	13.13	53077	16.30	42940	19.22
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IS1 (FBZ) = FLUOROBENZENE
IS2 (TOL) = TOLUENE-D8
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

page __ of __.

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: H. O. D. LANDFILL Contract: LOCKHEED/ESAT

Lab code: 5SCRL Case No,: SF1187 SAS No.: --- SDG No.: ---

Lab File ID (Standard): >AG254 Date Analyzed: 05/26/93

Instrument ID: HP MS#4 Time Analyzed: 09:30

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

		IS1(FBZ) AREA #	RT	IS2(TOL) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	85478	13.13	81467	16.29	63829	19.23
	UPPER LIMIT	170956	13.63	162934	16.79	127658	19.73
	LOWER LIMIT	42739	12.63	40734	15.79	31914	18.73
	EPA SAMPLE NO.						
1	LAB BLANK2	68043	13.14	65029	16.30	53469	19.23
2	93ZE33S39DL1	68388	13.15	68897	16.29	53434	19.21
3	93ZE33D39DL1	67340	13.12	66303	16.28	51697	19.20
4	93ZE33S39MS	72252	13.13	71913	16.28	56595	19.21
5	93ZE33S39MSD	61976	13.10	60002	16.27	45768	19.21
6	93ZE33S36	65773	13.13	62701	16.29	49579	19.20
7	93ZE33S36MS	61616	13.12	60629	16.28	47438	19.20
8	93ZE33S36MSD	58396	13.12	56894	16.28	44943	19.21
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IS1 (FBZ) = FLUOROBENZENE
IS2 (TOL) = TOLUENE-D8
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

page __ of __.

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: H. O. D. LANDFILL Contract: LOCKHEED/ESAT

Lab code: 5SCRL Case No.: SF1187 SAS No.: --- SDG No.: ---

Lab File ID (Standard): >AG269 Date Analyzed: 05/27/93

Instrument ID: HP MS#4 Time Analyzed: 10:31

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

		IS1(FBZ) AREA #	RT	IS2(TOL) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	82761	13.12	81740	16.27	62356	19.20
	UPPER LIMIT	165522	13.62	163480	16.77	124712	19.70
	LOWER LIMIT	41380	12.62	40870	15.77	31178	18.70
	EPA SAMPLE NO.						
1	LAB BLANK2	81312	13.12	79146	16.28	62977	19.20
2	93ZE33S38MS	72665	13.13	69666	16.27	55564	19.19
3	93ZE33S38MSD	69842	13.13	68077	16.26	53709	19.19
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IS1 (FBZ) = FLUOROBENZENE
IS2 (TOL) = TOLUENE-D8
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

page __ of __.

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 1187 SAS No.: NA SDG No.: NA

Lab File ID (Standard): IC0525AVE Date Analyzed: 05/25/93

Instrument ID: INCOS1 Time Analyzed: 1754

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

		IS1(BCM) AREA #	RT	IS2(BCP) AREA #	RT	IS3(DCB) AREA #	RT
	12 HOUR STD	118520	9.47	347200	18.49	213800	22.47
	UPPER LIMIT	237040	9.97	694400	18.99	427600	22.97
	LOWER LIMIT	59260	8.97	173600	17.99	106900	21.97
	EPA SAMPLE NO.						
01	0525ICHK	120000	9.54	361000	18.57	251000	22.57
02	93ZE33D37D	130000	9.54	349000	18.57	235000	22.57
03	93ZE33S37D	131000	9.57	371000	18.60	252000	22.60
04	0525BLK1	124000	9.54	357000	18.57	240000	22.57

IS1 BCM Bromochloromethane
IS2 BCP 2-Bromo-1-Chloropropane
IS3 DCB 1,4Dichlorobutane

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: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 1187 SAS No.: NA SDG No.: NA

Lab File ID (Standard): CC0526B Date Analyzed: 05/26/93

Instrument ID: INCOS1 Time Analyzed: 1238

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

		IS1(BCM) AREA #	RT	IS2(BCP) AREA #	RT	IS3(DCB) AREA #	RT
	12 HOUR STD	121000	9.44	334000	18.44	214000	22.40
	UPPER LIMIT	242000	9.94	668000	18.94	428000	22.90
	LOWER LIMIT	60500	8.94	167000	17.94	107000	21.90
	EPA SAMPLE NO.						
01	93ZE33D38	97900	9.44	249000	18.44	156000	22.44
02	0526BLK2	134000	9.44	351000	18.44	208000	22.40

IS1 BCM Bromochloromethane
IS2 BCP 2-Bromo-1-Chloropropane
IS3 DCB 1,4Dichlorobutane

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

FORM VIII VOA 1/87 Rev.

D=Diluted Sample; X = Result rejected for failing mass spectral confirmation; E = Concentration exceeded calibration range; B_ = Contaminant found in laboratory method blank; ARE THERE TICs ? (Circle) YES/NO

QUANT REPORT

Operator ID: TONY
Output File: ^AG211::D2
Data File: >AG211::D5
Name: LAB BLANK
Misc: 05/18/93 #4

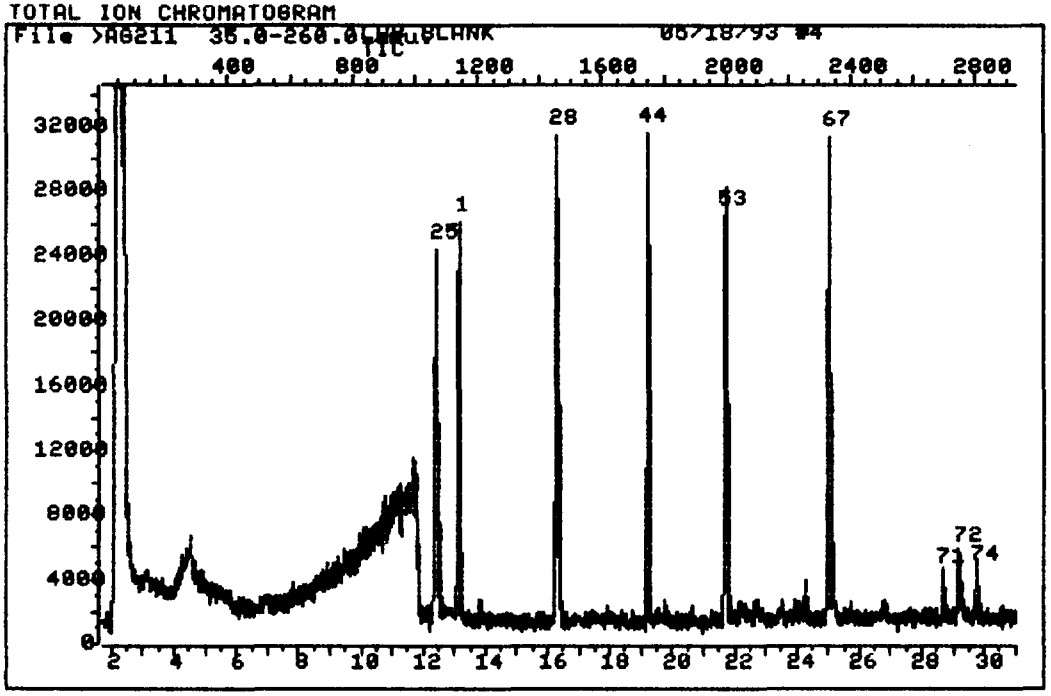
Quant Rev: 7
Quant Time: 930615 16:26
Injected at: 930518 15:04
Dilution Factor: 1.00000
Instrument ID: HP MS#4

ID File: IDAG05::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930518 10:10
Last Qcal Time: 930518 14:24

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.11	96.0	52906	10.00	ug/L	97
25)	BENZENE-D6	12.41	84.0	51681	10.32	ug/L	95
28)	*TOLUENE-D8	16.26	98.0	50076	10.00	ug/L	96
44)	*CHLOROBENZENE-D5	19.19	117.0	38360	10.00	ug/L	95
53)	p-BROMOFLUOROBENZENE	21.71	174.0	17190	9.22	ug/L	95
67)	1,2-DICHLOROBENZENE-D4	25.02	152.0	17770	9.54	ug/L	93
71)	1,2,4-Trichlorobenzene	28.67	180.0	2796	1.13	ug/L	87
72)	Naphthalene	29.21	128.0	8427	1.54	ug/L	100
74)	1,2,3-Trichlorobenzene	29.77	180.0	2910M	1.24	ug/L	

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG211::D5
Name: LAB BLANK
Misc: 05/18/93 #4

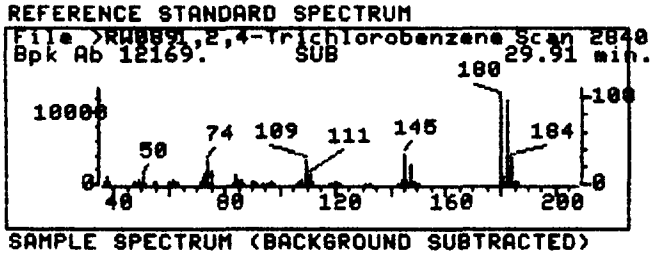
Quant Output File: ^AG211::D2
Instrument ID: HP MS#4

Id File: IDAG05::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930518 10:10

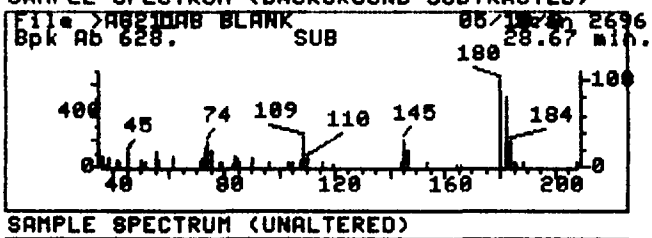
Last Qcal Time: 930518 14:24

Operator ID: TONY
Quant Time : 930615 16:26
Injected at: 930518 15:04

REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



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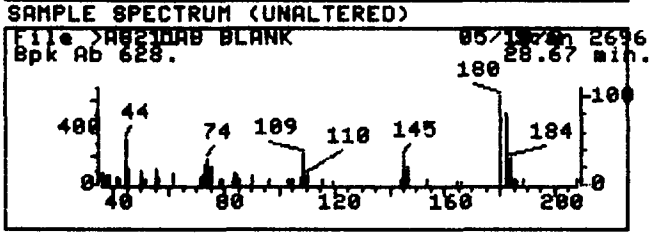
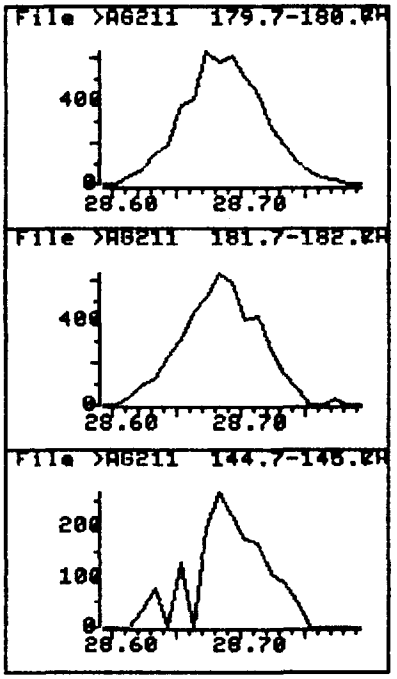


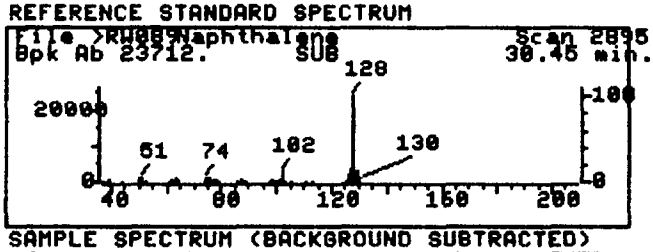


Data File: >AG211::D5
Name: LAB BLANK
Misc: 05/18/93 #4
Quant Time: 930615 16:26
Injected at: 930518 15:04
Last Qcal Time: 930518 14:24

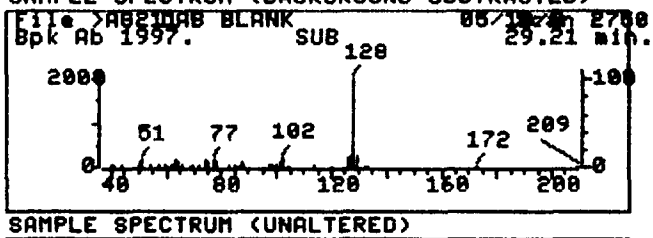
Quant Output File: ^AG211::D2
Instrument ID: HP MS#4
Quant ID File: IDAG05::QT
Last Calibration: 930518 10:10

Compound No : 71
Compound Name : 1,2,4-Trichlorobenzene
Scan Number : 2696
Retention Time: 28.67 min.
Quant Ion : 180.0
Area : 2796
Concentration : 1.13 ug/L
q-value : 87

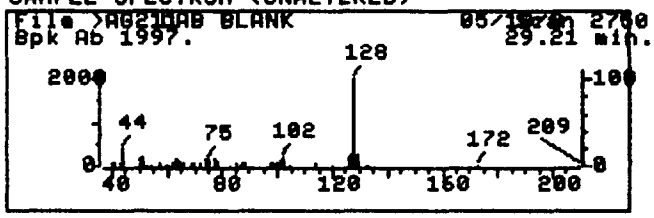
REFERENCE STANDARD SPECTRUM

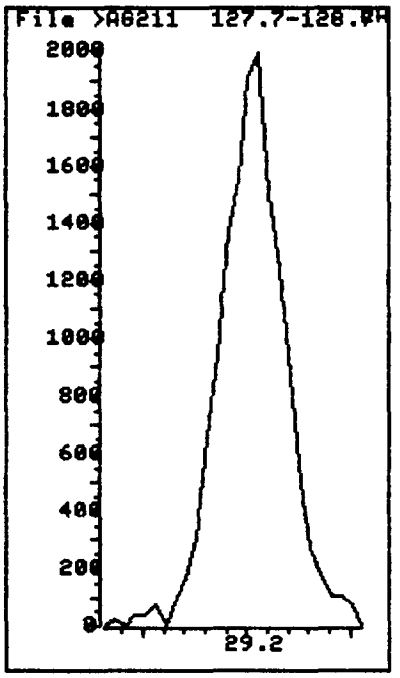


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



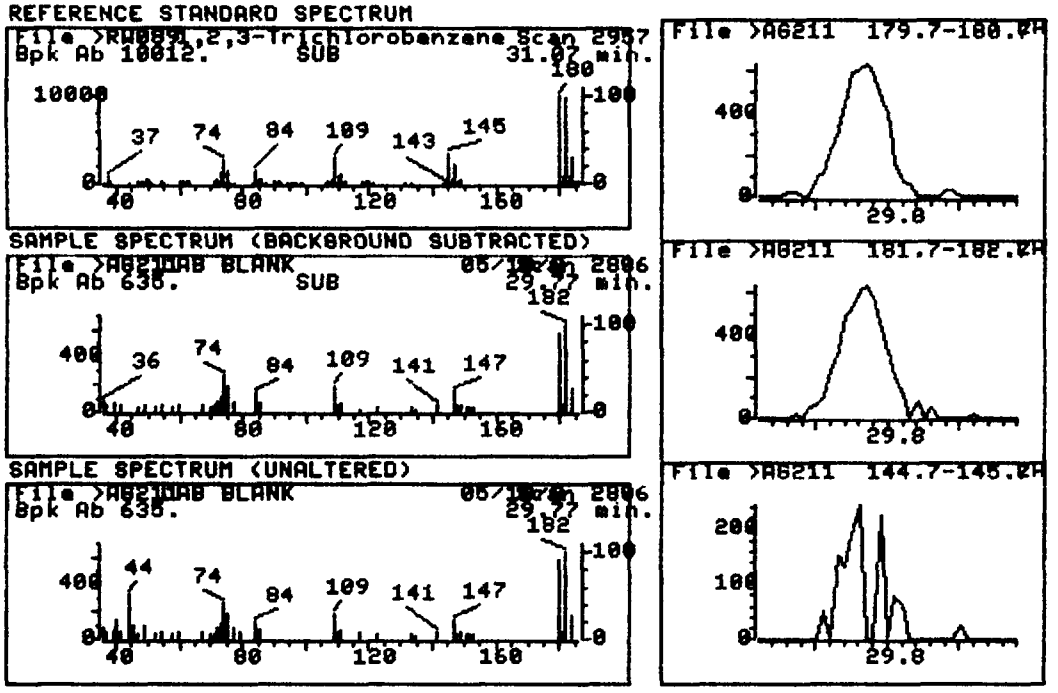


Data File: >AG211::D5
Name: LAB BLANK
Misc: 05/18/93 #4
Quant Time: 930615 16:26
Injected at: 930518 15:04
Last Qcal Time: 930518 14:24

Quant Output File: ^AG211::D2
Instrument ID: HP MS#4

Quant ID File: IDAG05::QT
Last Calibration: 930518 10:10

Compound No : 72
Compound Name : Naphthalene
Scan Number : 2750
Retention Time: 29.21 min.
Quant Ion : 128.0
Area : 8427
Concentration : 1.54 ug/L
q-value : 100



Data File: >AG211::D5
Name: LAB BLANK
Misc: 05/18/93 #4
Quant Time: 930615 16:26
Injected at: 930518 15:04
Last Qcal Time: 930518 14:24

Quant Output File: ^AG211::D2
Instrument ID: HP MS#4
Quant ID File: IDAG05::QT
Last Calibration: 930518 10:10

Compound No : 74
Compound Name : 1,2,3-Trichlorobenzene
Scan Number : 2806
Retention Time: 29.77 min.
Quant Ion : 180.0
Area : 2910M
Concentration : 1.24 ug/L

MS data file header from : >AG211::D5

Sample: LAB BLANK Operator: TONY REG. GRP. 5/18/93 15:04
Misc : 05/18/93 #4
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 0 Equip ID: HP MS#4
Method file: VOA#1 Tuning file: MTMSD1 No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	10.	160.	0.	0.	0.
Chromatographic times, min. :	5.0	5.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	6.0	0.0	0.0	.1	0.0

>AG211 LAB BLANK 05/18/93 #4
35.01 260.0 CLP TIC
Upslope: .2000 Area Reject: 12607. Max Peaks: 2 Bunch: -1 Valley >100 %
Dnslope: 0.0000 Results File IAG211 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	28.68	2689	2697	2707	3360	31376	15852	83.52	45.511
2	29.76	2794	2805	2814	4125	33313	18979	100.00	54.489

Sum of corrected areas: 34831.

BBL

ag 6/16/93

Summary of Unknowns PBM Library Search and Quantitation

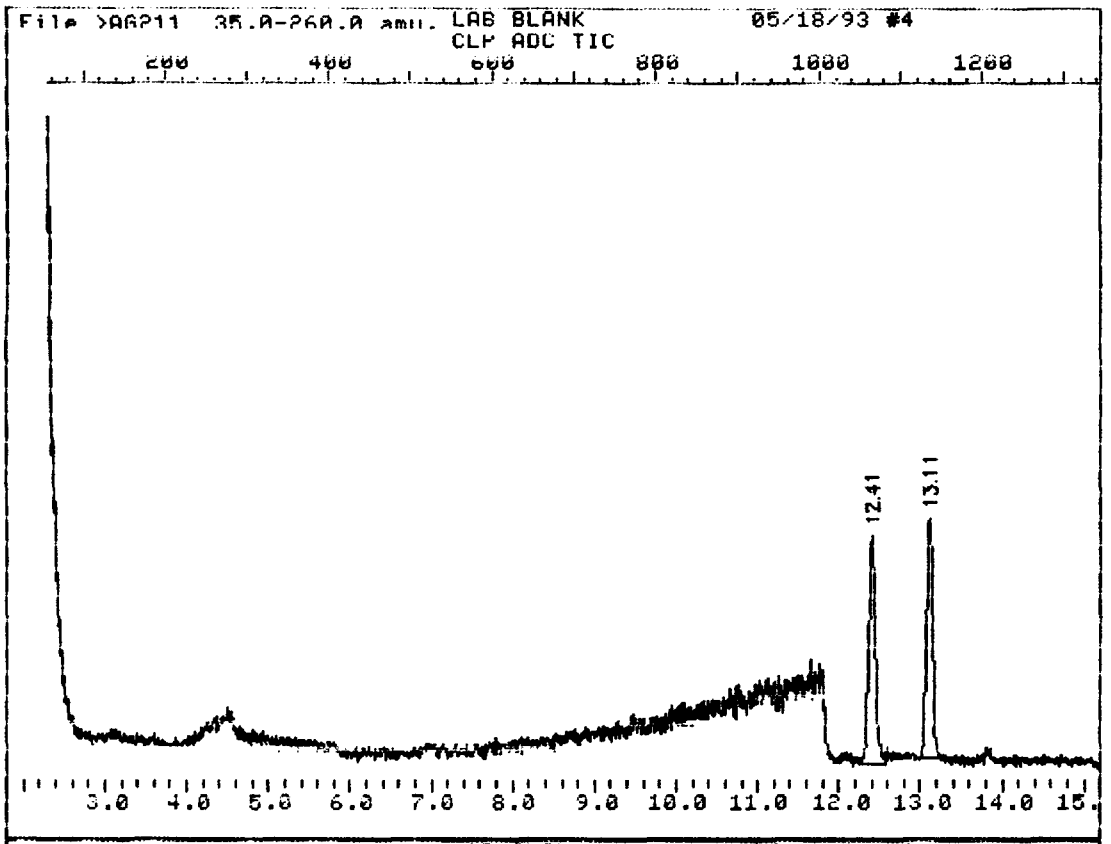
Standard	Concentration	Area	Retention Time	Unknown Window
1	10.0	126073.	13.11	2.50 - 14.69
2	10.0	143864.	16.26	14.69 - 17.73
3	10.0	143414.	19.19	17.73 - 31.04

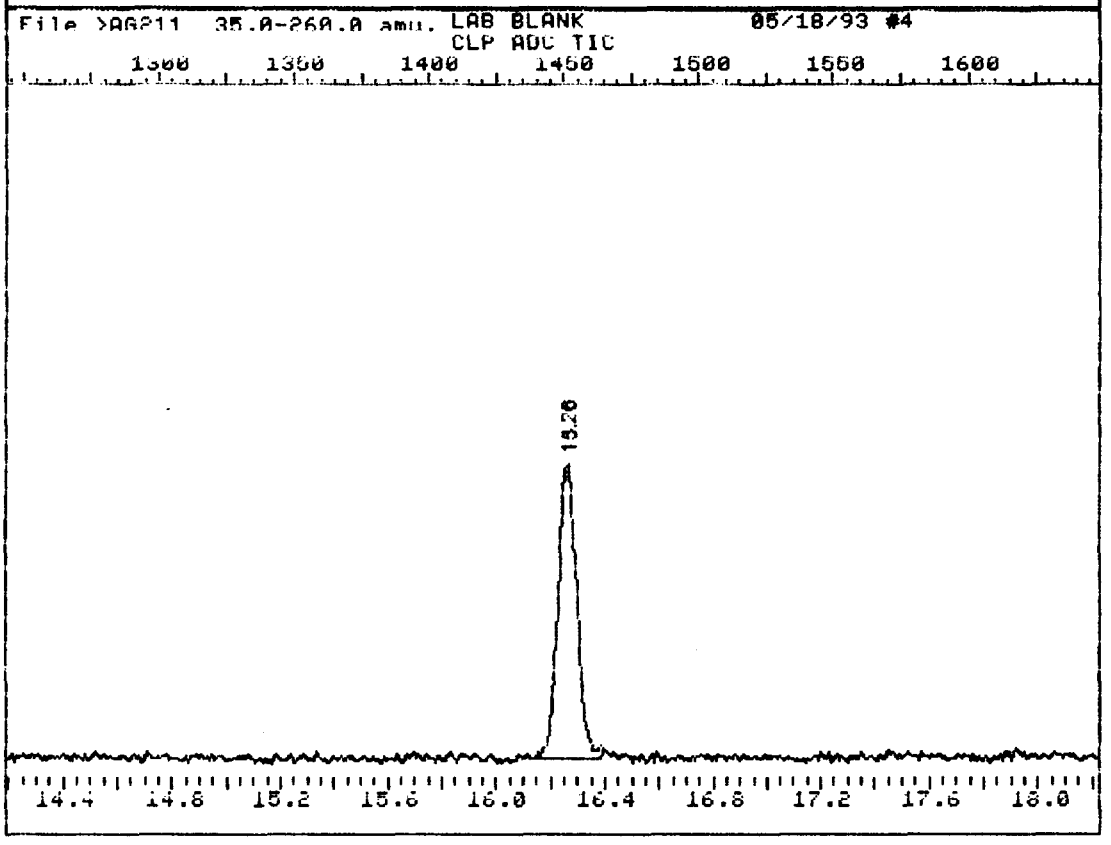
Dilution Factor = 1.00 This sample was 5.00000 g or mL

Correction Factor = 1.00

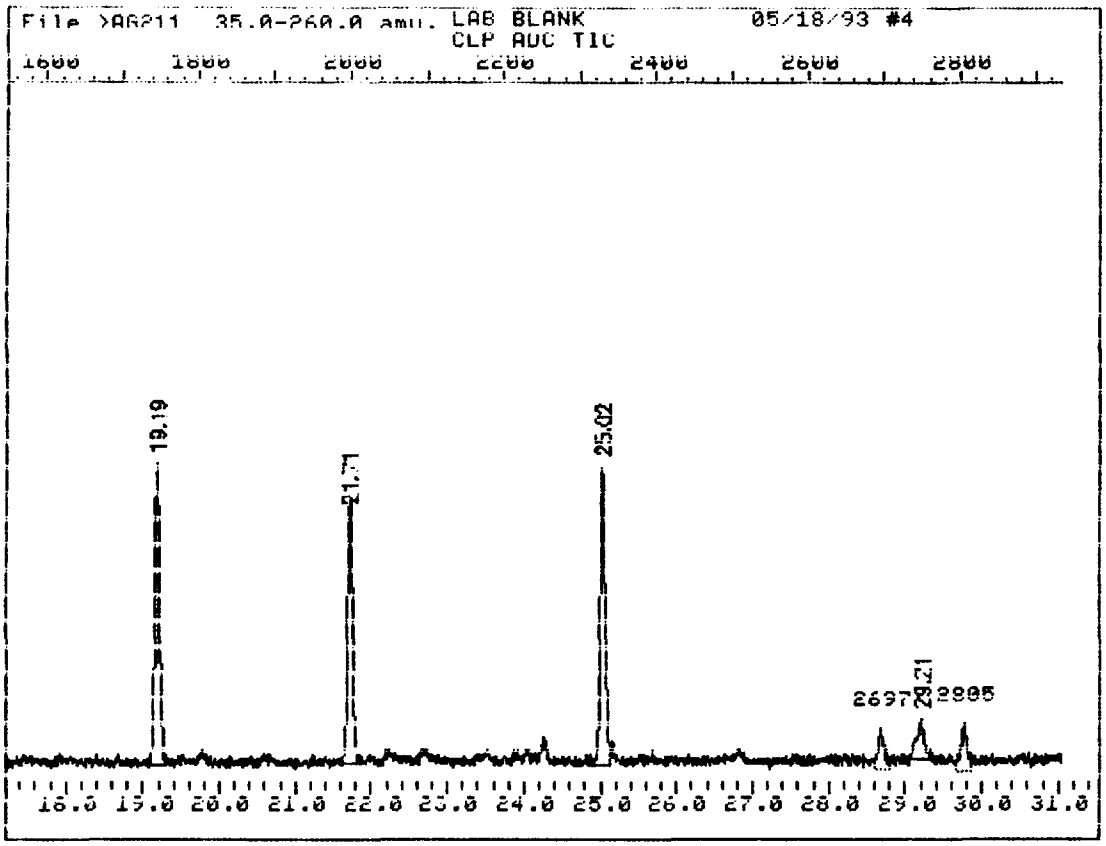
$$\text{Unknown Concentration} = \frac{\text{Conc Int Std} * \text{Area Unknown}}{\text{Area Int Std}} * \text{Correction Factor}$$

5:07 PM MON., 14 JUNE, 1993

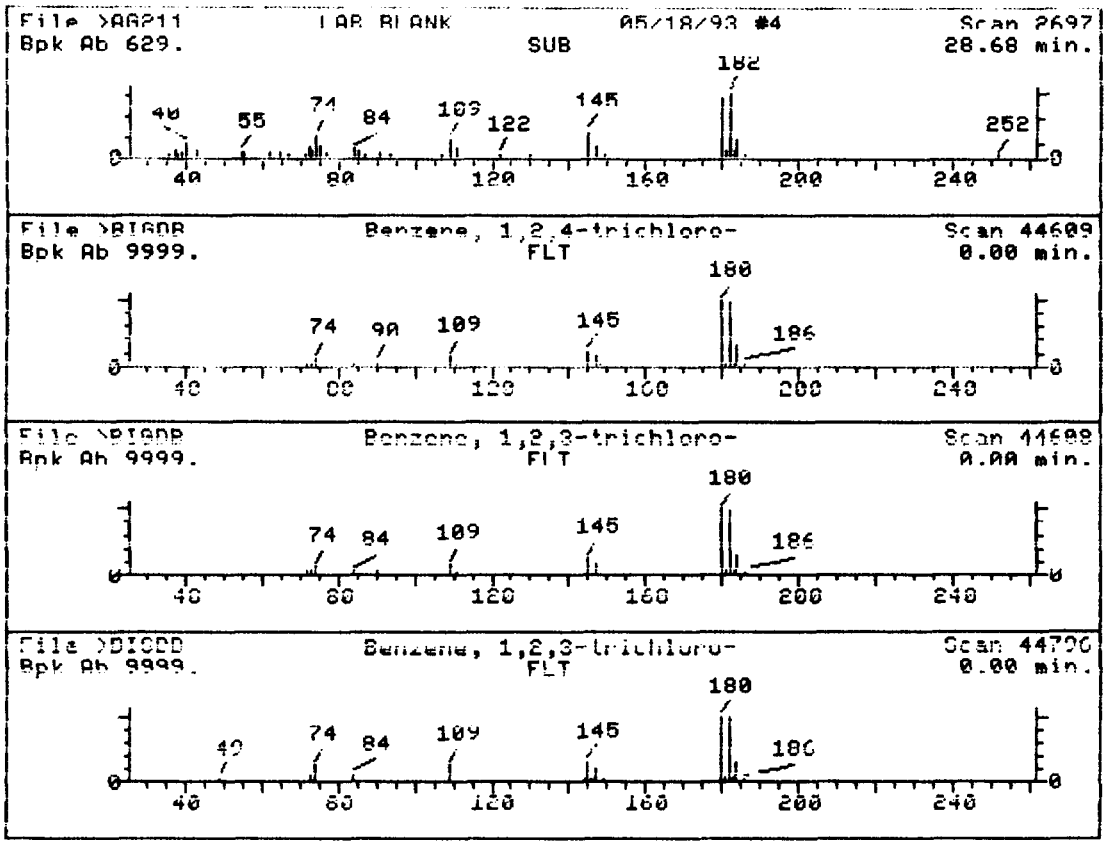




Instrument ID: HP MS# Analyzed on: 5/18/93 15:04



Instrument ID: HP MS# Analyzed on: 5/18/93 15:04



BQL

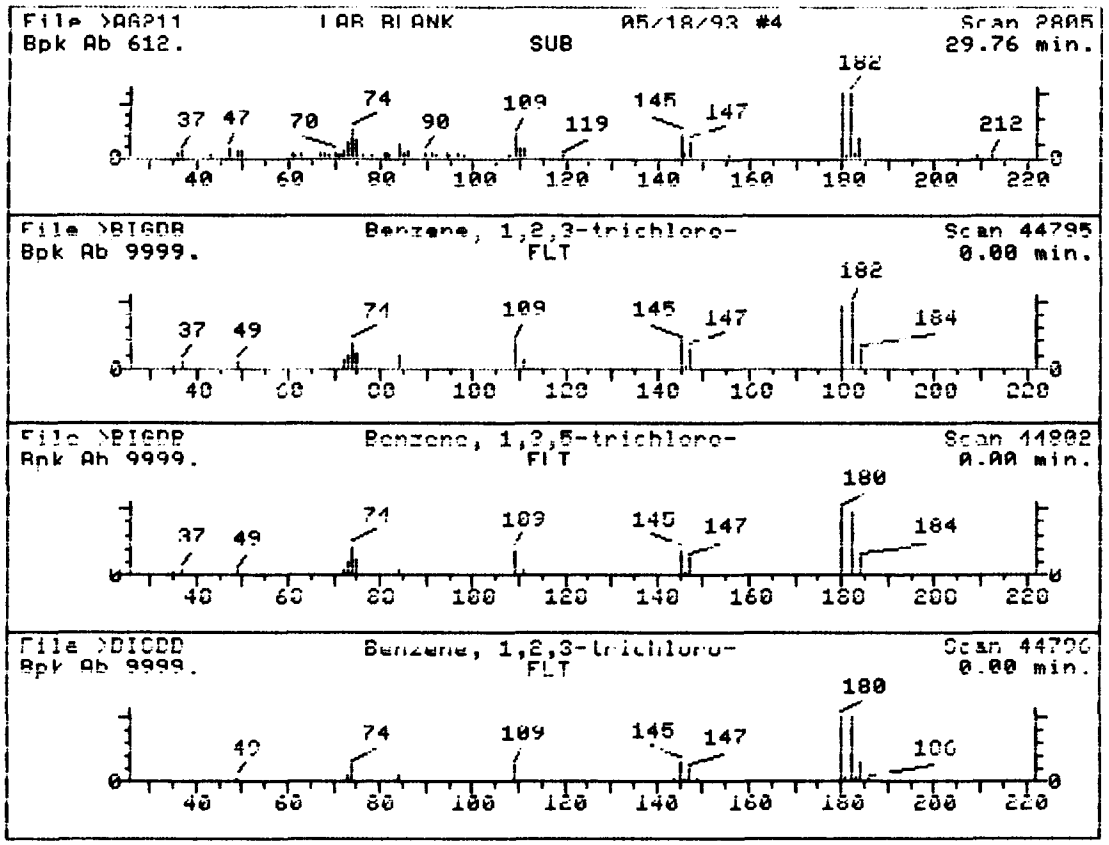
ag 6/18/93

Instrument ID: HP MS# Analyzed on: 5/18/93 15:04
Result 1 in PBM results file: LAG211
Retention Time: 28.68 Area: 15852 Tentative Conc: 1.00
The unknown area is 11.05% of the nearest internal standard

1. Benzene, 1,2,4-trichloro- 180 C6H3Cl3
2. Benzene, 1,2,3-trichloro- 180 C6H3Cl3
3. Benzene, 1,2,3-trichloro- 180 C6H3Cl3
4. Benzene, 1,2,4-trichloro- 180 C6H3Cl3
5. Benzene, 1,3,5-trichloro- 180 C6H3Cl3
6. Benzene, 1,3,5-trichloro- 180 C6H3Cl3

Sample file: >AG211 Spectrum #: 2697
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C I	R IV
1.	86*	120821	44609	"BIGDB	68	47	0	0	86	20	50	83
2.	86*	87616	44608	"BIGDB	67	47	0	0	85	20	50	80
3.	81*	87616	44796	"BIGDB	96	28	2	0	88	20	45	74
4.	81*	120821	44798	"BIGDB	93	28	2	0	85	20	45	72
5.	77*	108703	44610	"BIGDB	60	55	0	0	84	23	41	73
6.	66*	108703	44801	"BIGDB	84	36	3	0	91	20	31	49



BQL

Instrument ID: HP MS# Analyzed on: 5/18/93 15:04
Result 2 in PBM results file: LAG211
Retention Time: 29.76 Area: 18979 Tentative Conc: 1.00
The unknown area is 13.23% of the nearest internal standard

1. Benzene, 1,2,3-trichloro-	180	C6H3Cl3
2. Benzene, 1,3,5-trichloro-	180	C6H3Cl3
3. Benzene, 1,2,3-trichloro-	180	C6H3Cl3
4. Benzene, 1,3,5-trichloro-	180	C6H3Cl3
5. Benzene, 1,2,4-trichloro-	180	C6H3Cl3
6. Benzene, 1,2,4-trichloro-	180	C6H3Cl3

Sample file: >AG211 Spectrum #: 2805
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IV
1.	99*	87616	44795	"BIGDB	151	8	0	0	85	4	72		99	
2.	99*	108703	44802	"BIGDB	114	21	0	0	98	4	72		99	
3.	83*	87616	44796	"BIGDB	66	58	0	0	89	11	51		78	
4.	81*	108703	44800	"BIGDB	58	63	0	0	95	20	45		71	
5.	81*	120821	44797	"BIGDB	73	44	1	0	99	17	45		72	
6.	79*	120821	44798	"BIGDB	70	51	1	0	99	12	43		69	

QUANT REPORT

Operator ID: TONY
Output File: ^AG248::D5
Data File: >AG248::D4
Name: LAB BLANK #3
Misc: 5/25/93 HP#4, 5mL PURGE

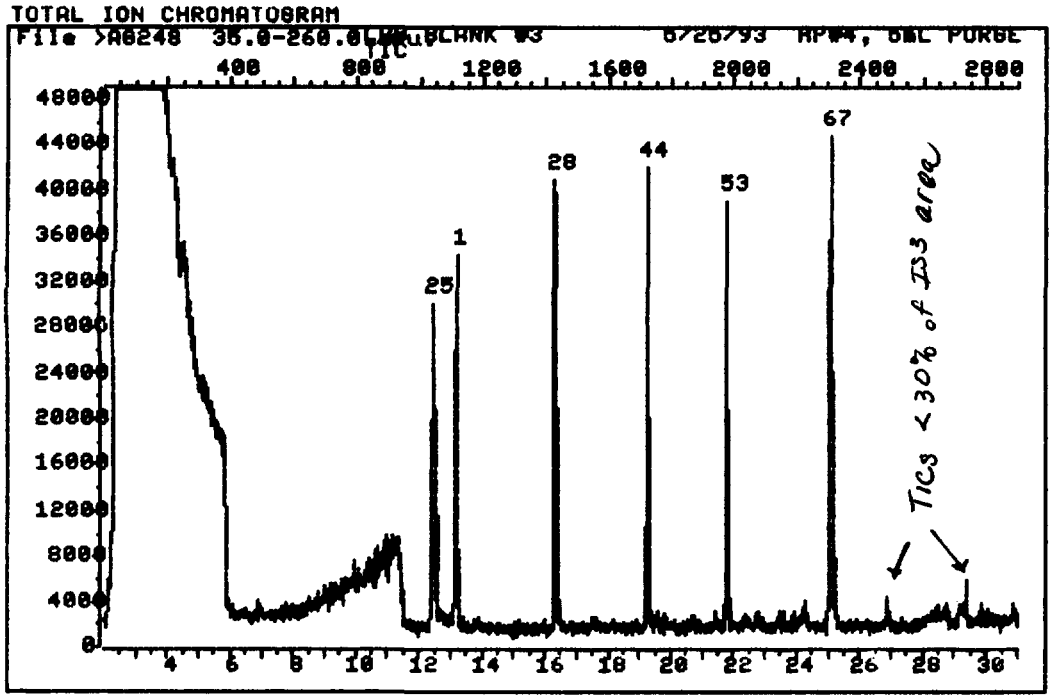
Quant Rev: 7
Quant Time: 930525 19:31
Injected at: 930525 18:58
Dilution Factor: 1.00000
Instrument ID: HP MS#4

ID File: IDAG08::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54
Last Qcal Time: <none>

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.15	96.0	68509	10.00	ug/L	96
25)	BENZENE-D6	12.43	84.0	65731	10.09	ug/L	99
28)	*TOLUENE-D8	16.29	98.0	64682	10.00	ug/L	97
44)	*CHLOROBENZENE-D5	19.23	117.0	51848	10.00	ug/L	98
53)	p-BROMOFLUOROBENZENE	21.75	174.0	23678	9.87	ug/L	99
67)	1,2-DICHLOROBENZENE-D4	25.05	152.0	25572	10.29	ug/L	92

* Compound is ISTD

TOTAL ION CHROMATOGRAM



ag
6/16/93

Data File: >AG248::D4 Quant Output File: ^AG248::D5
Name: LAB BLANK #3 Instrument ID: HP MS#4
Misc: 5/25/93 HP#4, 5mL PURGE

Id File: IDAG08::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54 Last Qcal Time: <none>

Operator ID: TONY
Quant Time : 930525 19:31
Injected at: 930525 18:58

QUANT REPORT

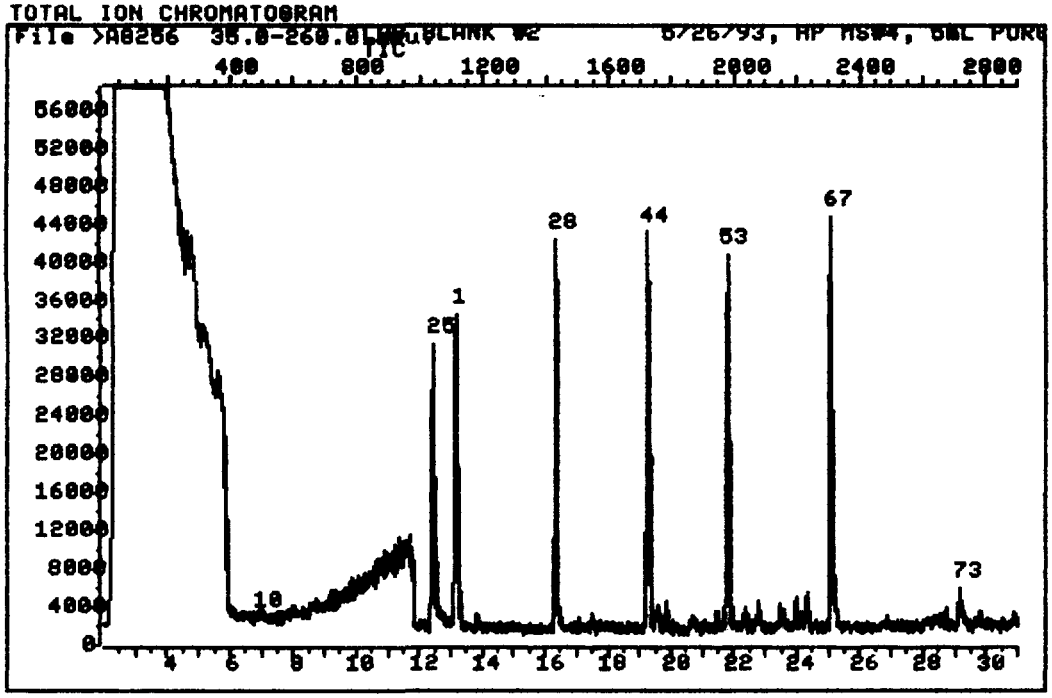
Operator ID: TONY
Quant Rev: 7
Quant Time: 930526 12:25
Output File: ^AG256::D5
Injected at: 930526 11:36
Data File: >AG256::D4
Dilution Factor: 1.00000
Name: LAB BLANK #2
Instrument ID: HP MS#4
Misc: 5/26/93, HP MS#4, 5mL PURGE

ID File: IDAG09::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54
Last Qcal Time: 930526 09:30

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.14	96.0	68043	10.00	ug/L	97
10)	Acetone	6.98	43.0	5203	11.63	ug/L	84
25)	BENZENE-D6	12.43	84.0	66538	10.25	ug/L	98
28)	*TOLUENE-D8	16.30	98.0	65029	10.00	ug/L	97
44)	*CHLOROBENZENE-D5	19.23	117.0	53469	10.00	ug/L	99
53)	p-BROMOFLUOROBENZENE	21.76	174.0	23653	9.57	ug/L	96
67)	1,2-DICHLOROBENZENE-D4	25.07	152.0	26487	10.15	ug/L	91
73)	Hexachlorobutadiene	29.15	225.0	2224	1.46	ug/L	98

* Compound is ISTD

TOTAL ION CHROMATOGRAM

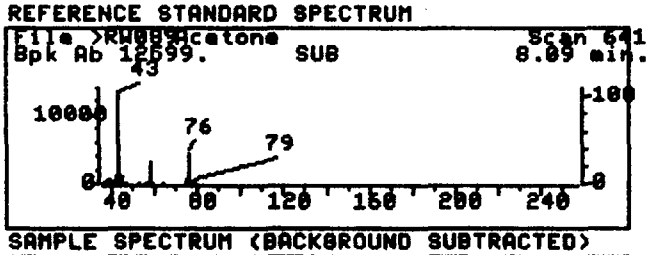


Data File: >AG256::D4 Quant Output File: ^AG256::D5
Name: LAB BLANK #2 Instrument ID: HP MS#4
Misc: 5/26/93, HP MS#4, 5mL PURGE

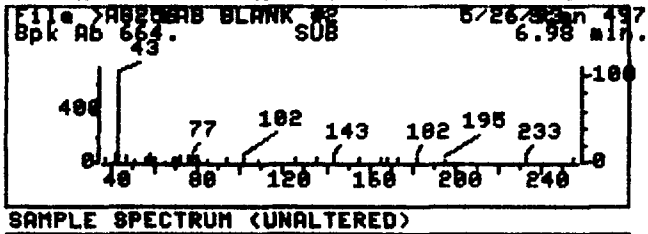
Id File: IDAG09::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54 Last Qcal Time: 930526 09:30

Operator ID: TONY
Quant Time : 930526 12:25
Injected at: 930526 11:36

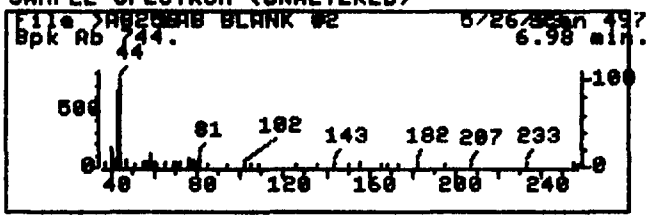
REFERENCE STANDARD SPECTRUM

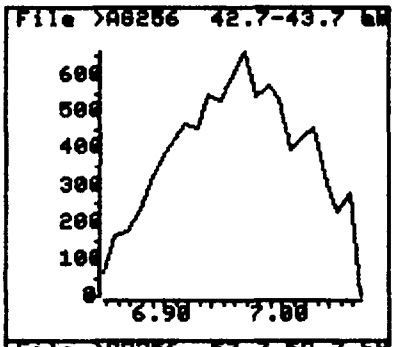


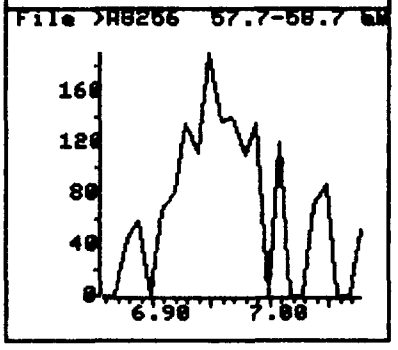
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



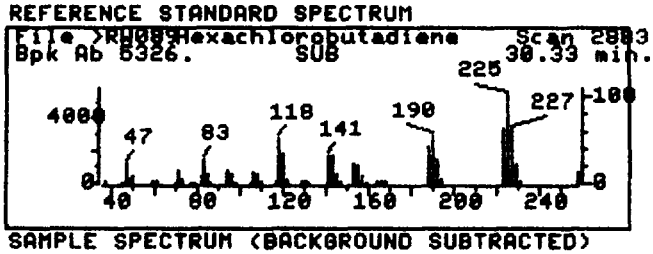


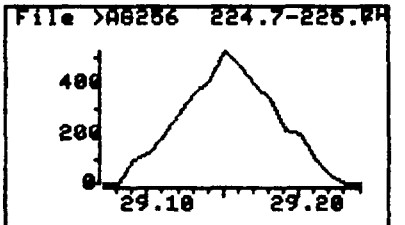


Data File: >AG256::D4 Quant Output File: ^AG256::D5
Name: LAB BLANK #2 Instrument ID: HP MS#4
Misc: 5/26/93, HP MS#4, 5mL PURGE
Quant Time: 930526 12:25 Quant ID File: IDAG09::QT
Injected at: 930526 11:36 Last Calibration: 930525 17:54
Last Qcal Time: 930526 09:30

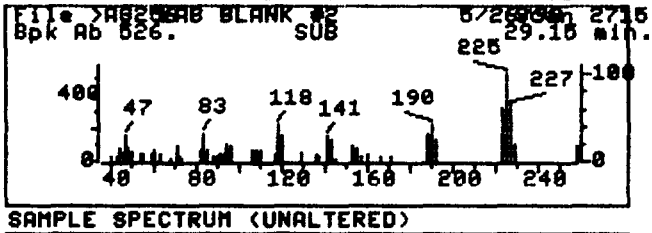
Compound No : 10
Compound Name : Acetone
Scan Number : 497
Retention Time: 6.98 min.
Quant Ion : 43.0
Area : 5203
Concentration : 11.63 ug/L
q-value : 84

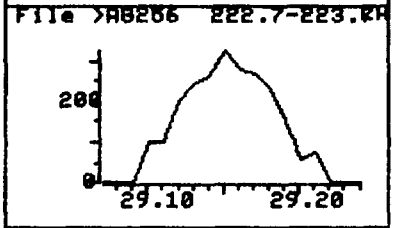
REFERENCE STANDARD SPECTRUM



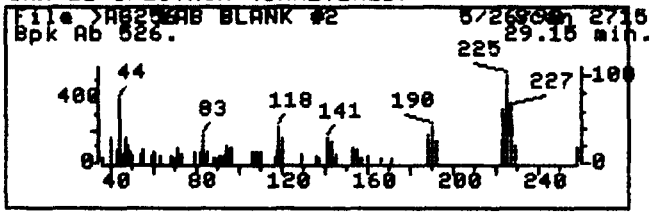


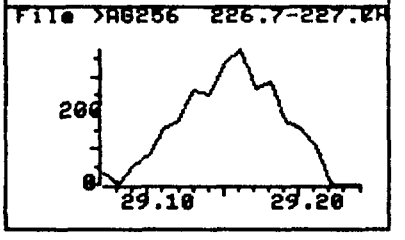
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)





SAMPLE SPECTRUM (UNALTERED)





Data File: >AG256::D4 Quant Output File: ^AG256::D5
Name: LAB BLANK #2 Instrument ID: HP MS#4
Misc: 5/26/93, HP MS#4, 5mL PURGE
Quant Time: 930526 12:25 Quant ID File: IDAG09::QT
Injected at: 930526 11:36 Last Calibration: 930525 17:54
Last Qcal Time: 930526 09:30

Compound No : 73
Compound Name : Hexachlorobutadiene
Scan Number : 2715
Retention Time: 29.15 min.
Quant Ion : 225.0
Area : 2224
Concentration : 1.46 ug/L
q-value : 98

MS data file header from : >AG256::D4

Sample: LAB BLANK #2 Operator: TONY REG. GRP. 5/26/93 11:36
Misc : 5/26/93, HP MS#4, 5mL PURGE
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 0 Equip ID: HP MS#4
Method file: VOA#1 Tuning file: MTMSD1 No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	10.	160.	0.	0.	0.
Chromatographic times, min. :	5.0	5.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	6.0	0.0	0.0	.1	0.0

>AG256 LAB BLANK #2 5/26/93, HP MS#4, 5mL PURGE
35.01 260.0 CLP TIC
Upslope: .2000 Area Reject: 16501. Max Peaks: 3 Bunch: -1 Valley >100 %
Dnslope: 0.0000 Results File IAG256 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	2.44	31	43	45	114559	2139784	806870	100.00	94.698
2	23.93	2181	2192	2200	3551	37632	19485	2.41	2.287
3	24.28	2220	2227	2241	4287	43351	25693	3.18	3.015

Sum of corrected areas: 852048.

Summary of Unknowns PBM Library Search and Quantitation

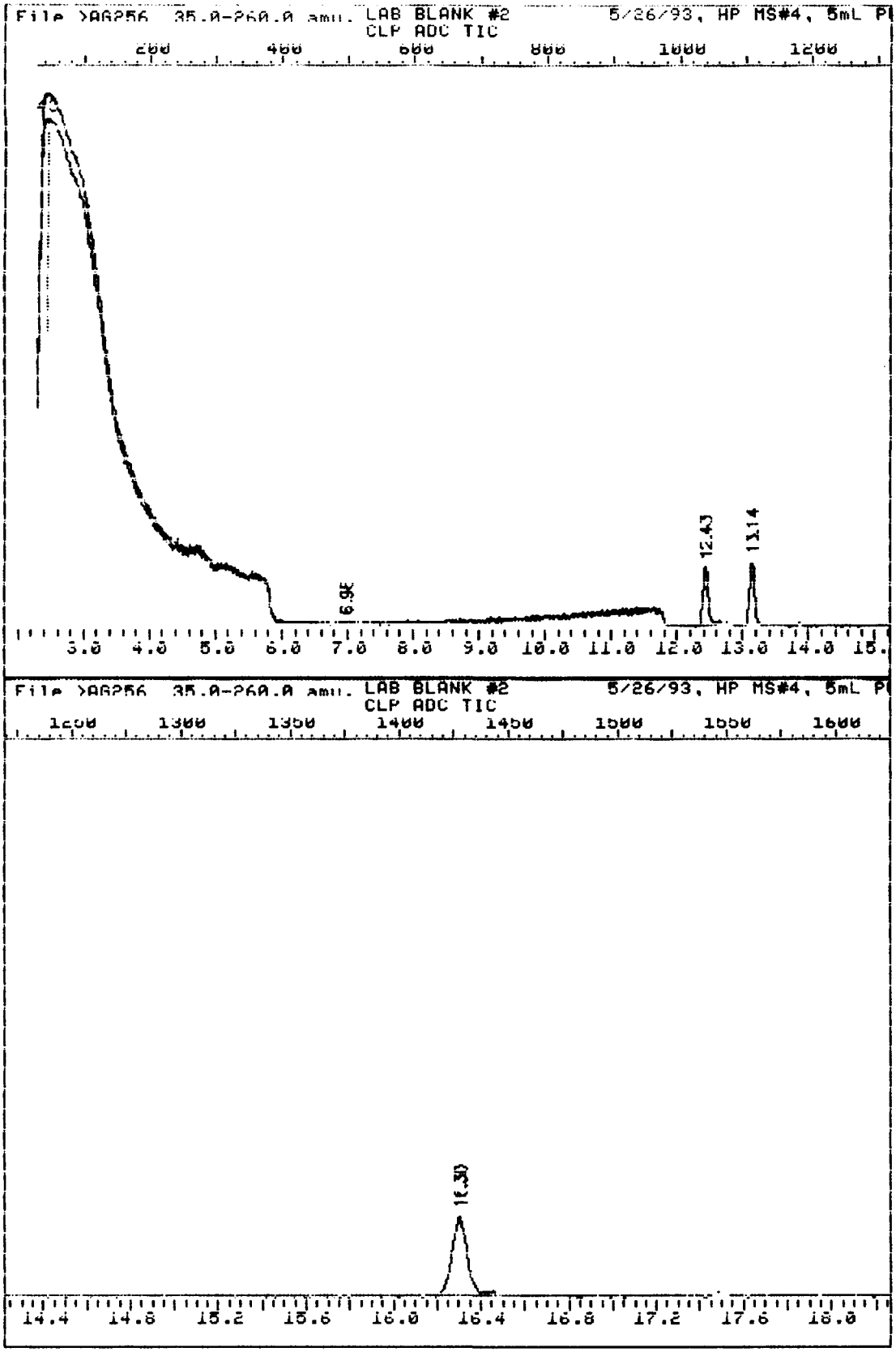
Standard	Concentration	Area	Retention Time	Unknown Window
1	10.0	165013.	13.14	2.30 - 14.72
2	10.0	194061.	16.30	14.72 - 17.77
3	10.0	191318.	19.23	17.77 - 31.02

Dilution Factor = 1.00 This sample was 5.00000 g or mL

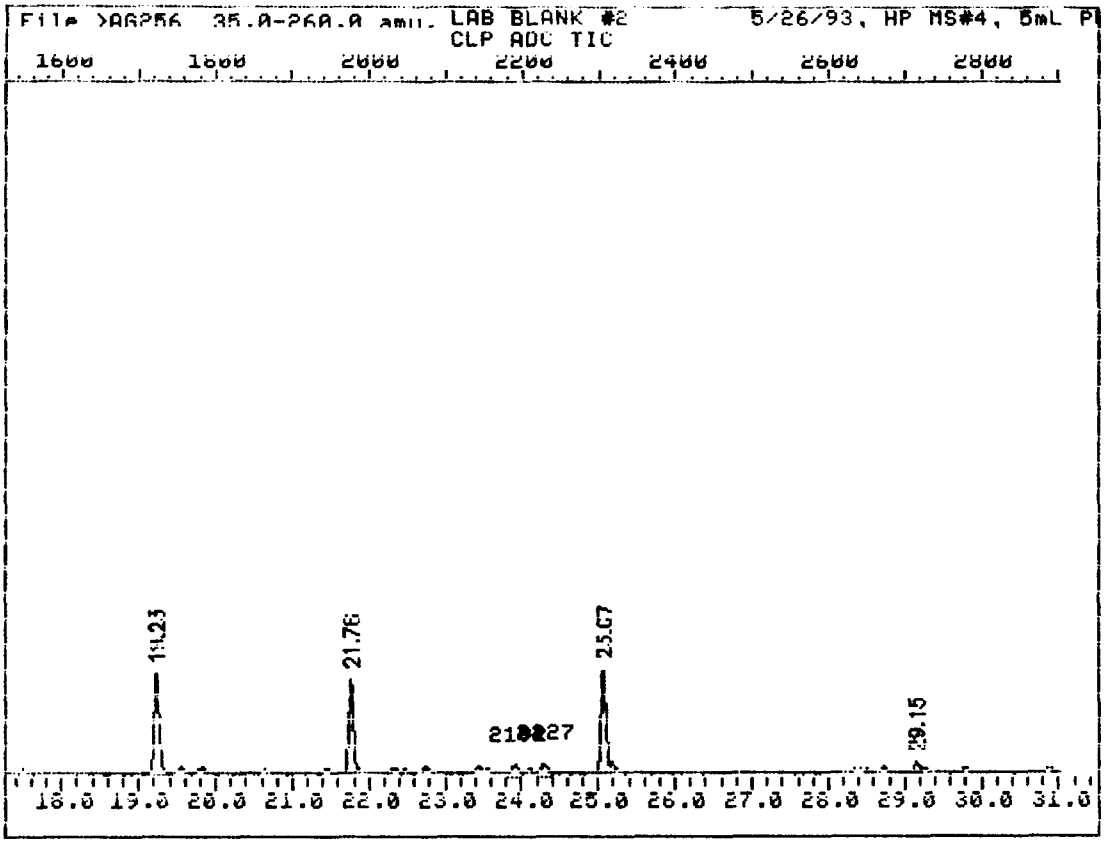
Correction Factor = 1.00

$$\text{Unknown Concentration} = \frac{\text{Conc Int Std} * \text{Area Unknown}}{\text{Area Int Std}} * \text{Correction Factor}$$

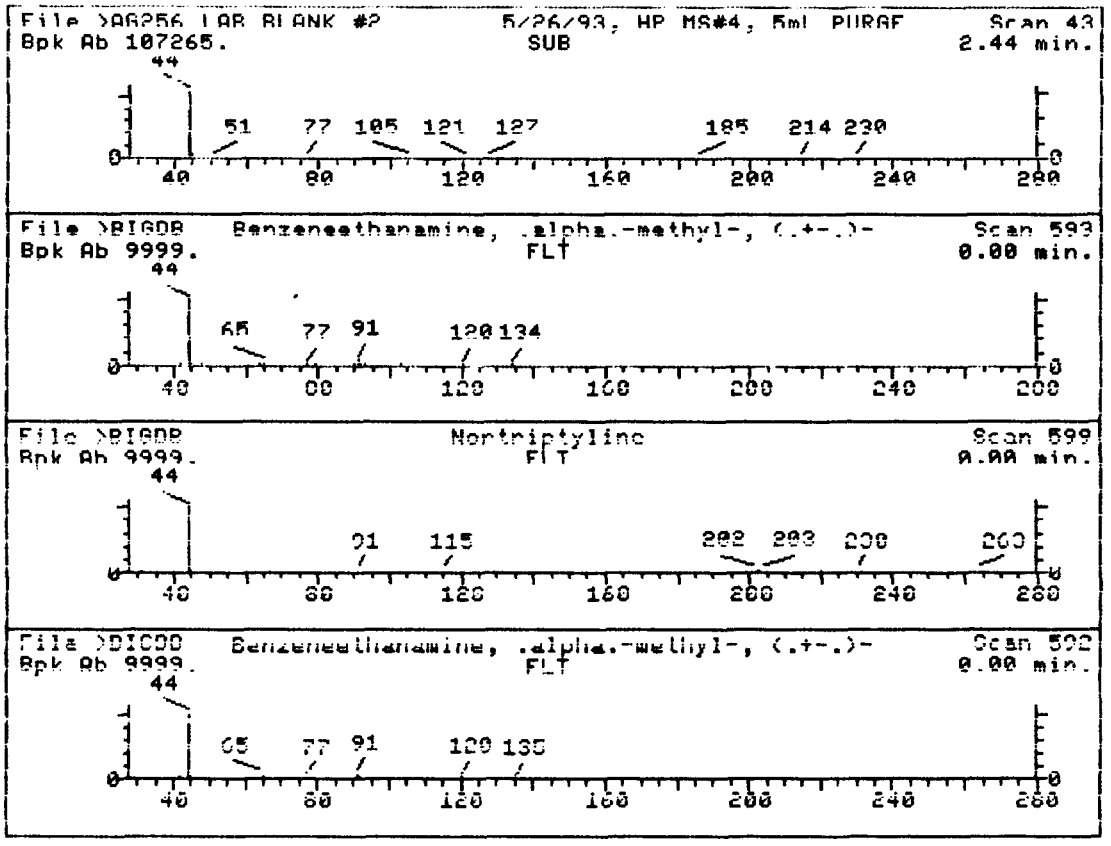
11:16 AM WED., 16 JUNE, 1993



Instrument ID: HP MS# Analyzed on: 5/26/93 11:36



Instrument ID: HP MS# Analyzed on: 5/26/93 11:36



Instrument ID: HP MS# Analyzed on: 5/26/93 11:36

Result 1 in PBM results file: LAG256

Retention Time: 2.44 Area: 806870 Tentative Conc: 49.00

The unknown area is 488.97% of the nearest internal standard

1. Benzeneethanamine, .alpha.-methyl-, (.+-.)- 135 C9H13N
2. Nortriptyline 263 C19H21N
3. Benzeneethanamine, .alpha.-methyl-, (.+-.)- 135 C9H13N

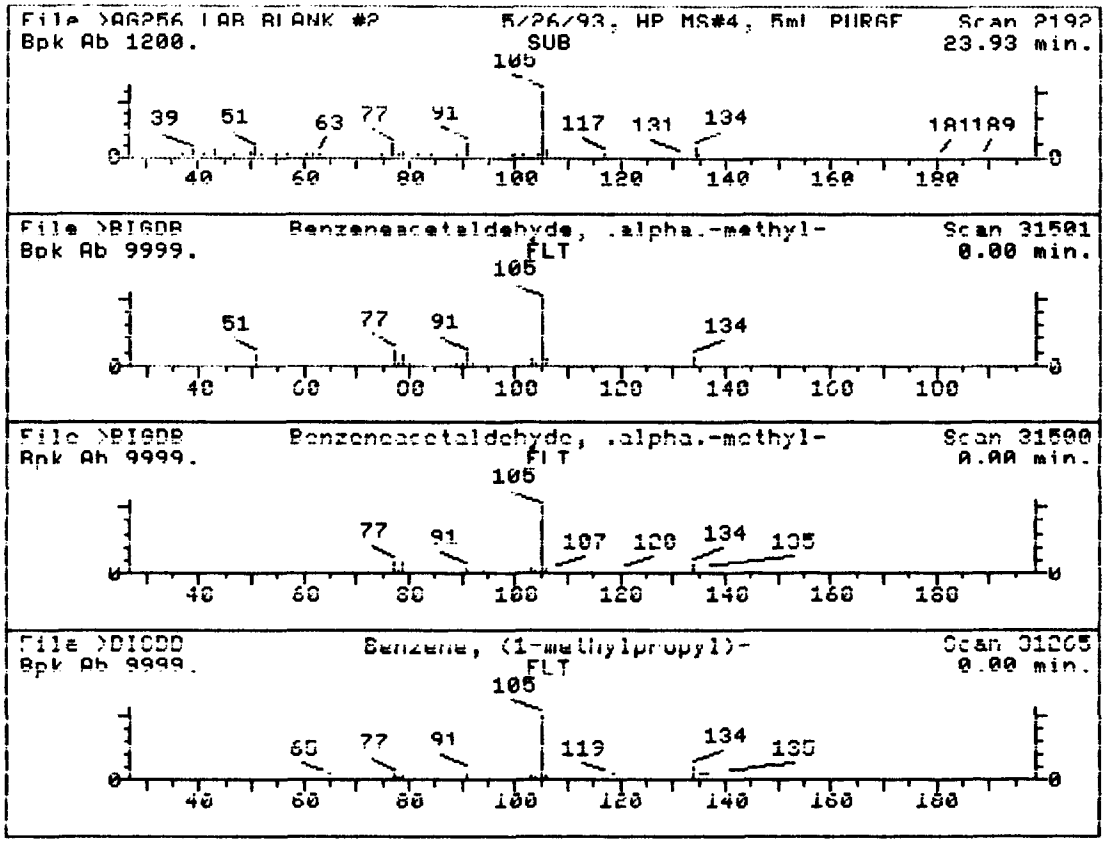
CO_2

aq 6/16/93

Sample file: >AG256 Spectrum #: 43

Search speed: 1 Tilting option: N No. of ion ranges searched: 31

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IV
1.	48	300629	593	"BIGDB	51	25	1	0	99	21		17		19
2.	43*	72695	599	"BIGDB	22	79	1	0	100	21		17		14
3.	15*	300629	592	"BIGDB	25	50	1	0	56	60		3		14



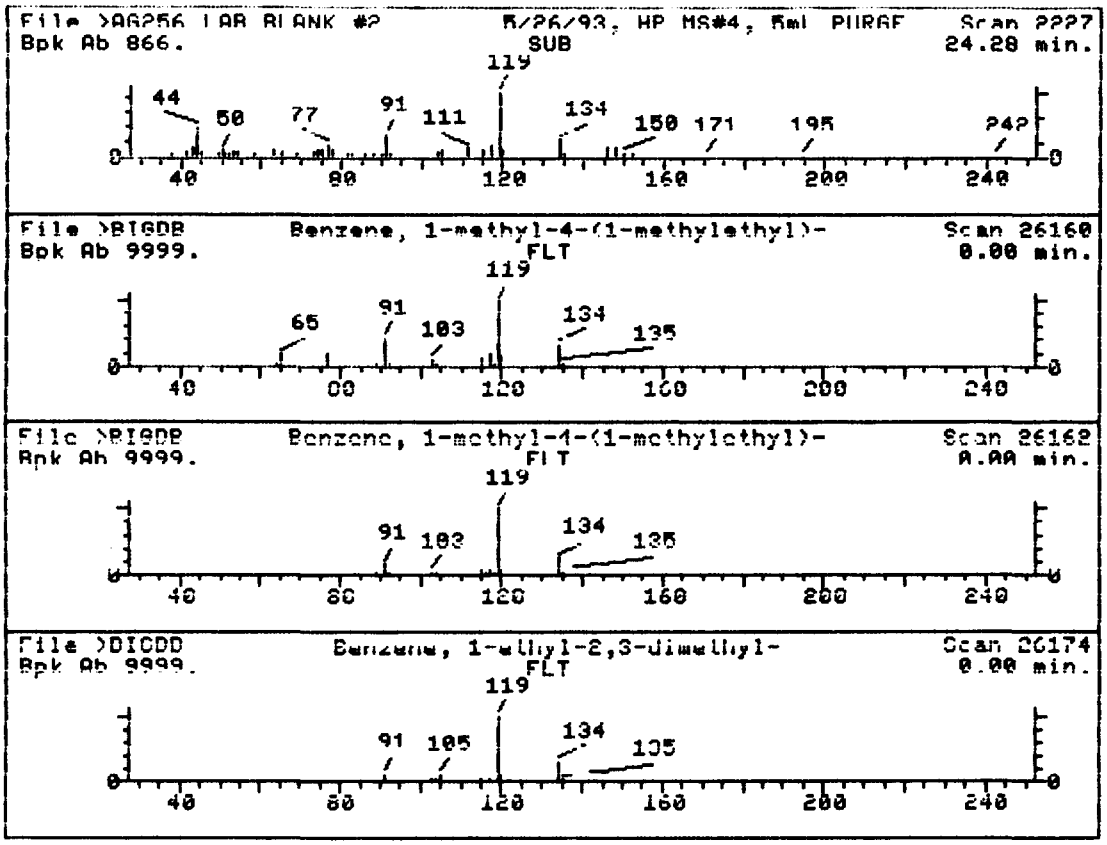
BQL

Instrument ID: HP MS# Analyzed on: 5/26/93 11:36
Result 2 in PBM results file: LAG256
Retention Time: 23.93 Area: 19485 Tentative Conc: 1.00
The unknown area is 10.18% of the nearest internal standard

1.	Benzeneacetaldehyde, .alpha.-methyl-	134	C9H10O
2.	Benzeneacetaldehyde, .alpha.-methyl-	134	C9H10O
3.	Benzene, (1-methylpropyl)-	134	C10H14
4.	Benzene, (1-methylpropyl)-	134	C10H14
5.	Benzene, 1-methyl-2-propyl-	134	C10H14
6.	Benzene, (1-methylpropyl)-	134	C10H14

Sample file: >AG256 Spectrum #: 2192
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IV
1.	59*	93538	31501	"BIGDB	52	42	2	0	87	24	27		32	
2.	51*	93538	31500	"BIGDB	43	45	2	0	98	24	22		23	
3.	51*	135988	31265	"BIGDB	40	43	1	0	73	25	22		23	
4.	50*	135988	31509	"BIGDB	39	47	1	0	86	25	22		22	
5.	49*	1074175	31511	"BIGDB	41	44	2	0	77	24	22		21	
6.	48*	135988	31508	"BIGDB	40	45	2	0	71	25	17		19	



BQL

Instrument ID: HP MS# Analyzed on: 5/26/93 11:36
Result 3 in PBM results file: LAG256
Retention Time: 24.28 Area: 25693 Tentative Conc: 1.00
The unknown area is 13.43% of the nearest internal standard

1. Benzene, 1-methyl-4-(1-methylethyl)- 134 C10H14
2. Benzene, 1-methyl-4-(1-methylethyl)- 134 C10H14
3. Benzene, 1-ethyl-2,3-dimethyl- 134 C10H14
4. Benzene, 1-ethyl-3,5-dimethyl- 134 C10H14
5. Benzene, 2-ethyl-1,4-dimethyl- 134 C10H14
6. Benzene, 1-methyl-4-(1-methylethyl)- 134 C10H14

Sample file: >AG256 Spectrum #: 2227
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IV
1.	49*	99876	26160	"BIGDB	71	34	2	0	74	44	17		52	
2.	41*	99876	26162	"BIGDB	35	54	0	0	100	44	14		36	
3.	41*	933982	26174	"BIGDB	36	55	0	0	88	44	14		38	
4.	41*	934747	26176	"BIGDB	35	54	0	0	77	44	14		36	
5.	41*	1758889	25741	"BIGDB	37	57	0	0	81	44	14		35	
6.	41*	99876	26161	"BIGDB	36	56	0	0	95	44	14		37	

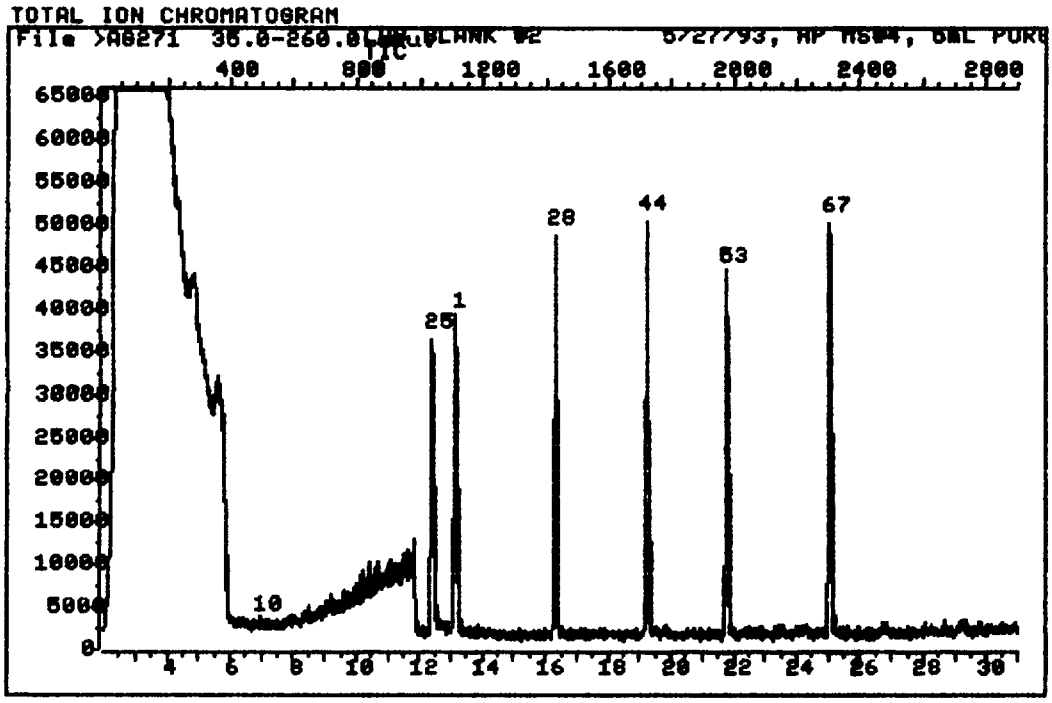
QUANT REPORT

Operator ID: TONY
Quant Rev: 7
Quant Time: 930527 12:24
Output File: ^AG271::D5
Injected at: 930527 11:51
Data File: >AG271::D4
Dilution Factor: 1.00000
Name: LAB BLANK #2
Instrument ID: HP MS#4
Misc: 5/27/93, HP MS#4, 5mL PURGE

ID File: IDAG10::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54
Last Qcal Time: 930527 10:31

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.12	96.0	81312	10.00	ug/L	95
10)	Acetone	6.93	43.0	3946	10.26	ug/L	99
25)	BENZENE-D6	12.41	84.0	79283	10.24	ug/L	99
28)	*TOLUENE-D8	16.28	98.0	79146	10.00	ug/L	99
44)	*CHLOROBENZENE-D5	19.20	117.0	62977	10.00	ug/L	98
53)	p-BROMOFLUOROBENZENE	21.74	174.0	29118	9.35	ug/L	97
67)	1,2-DICHLOROBENZENE-D4	25.04	152.0	30592	9.73	ug/L	95

* Compound is ISTD

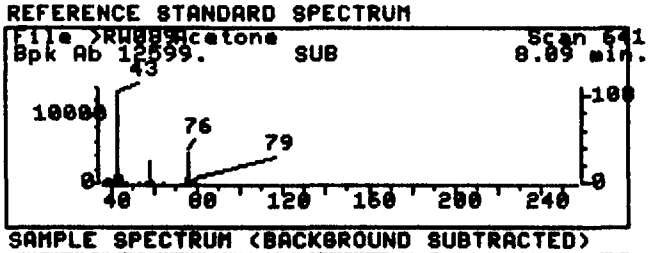


Data File: >AG271::D4 Quant Output File: ^AG271::D5
Name: LAB BLANK #2 Instrument ID: HP MS#4
Misc: 5/27/93, HP MS#4, 5mL PURGE

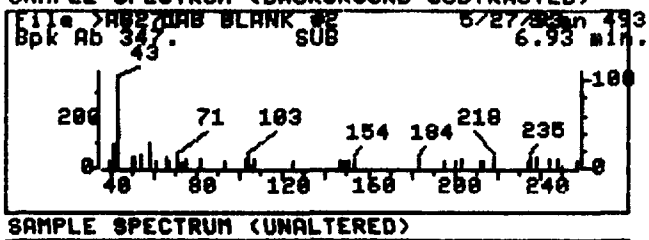
Id File: IDAG10::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54 Last Qcal Time: 930527 10:31

Operator ID: TONY
Quant Time : 930527 12:24
Injected at: 930527 11:51

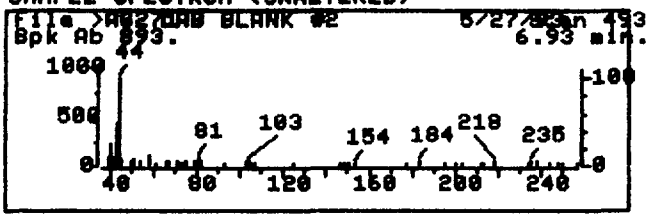
REFERENCE STANDARD SPECTRUM

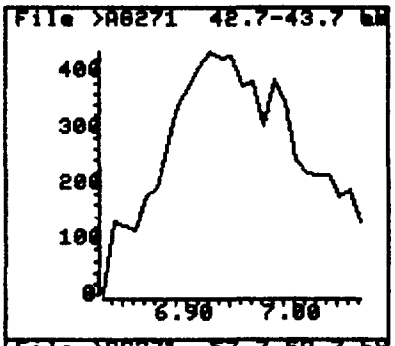


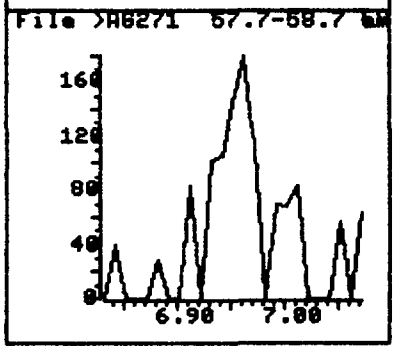
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







Data File: >AG271::D4 Quant Output File: ^AG271::D5
Name: LAB BLANK #2 Instrument ID: HP MS#4
Misc: 5/27/93, HP MS#4, 5mL PURGE
Quant Time: 930527 12:24 Quant ID File: IDAG10::QT
Injected at: 930527 11:51 Last Calibration: 930525 17:54
Last Qcal Time: 930527 10:31

Compound No : 10
Compound Name : Acetone
Scan Number : 493
Retention Time: 6.93 min.
Quant Ion : 43.0
Area : 3946
Concentration : 10.26 ug/L
q-value : 99

PROCEDURE: TCA DIAGNOSTIC REPORT 5/25/93 19:24:51
DATA FILE: 0525BLK1
REFERENCE: VP11
NAME LIST: VP INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: VP_IS

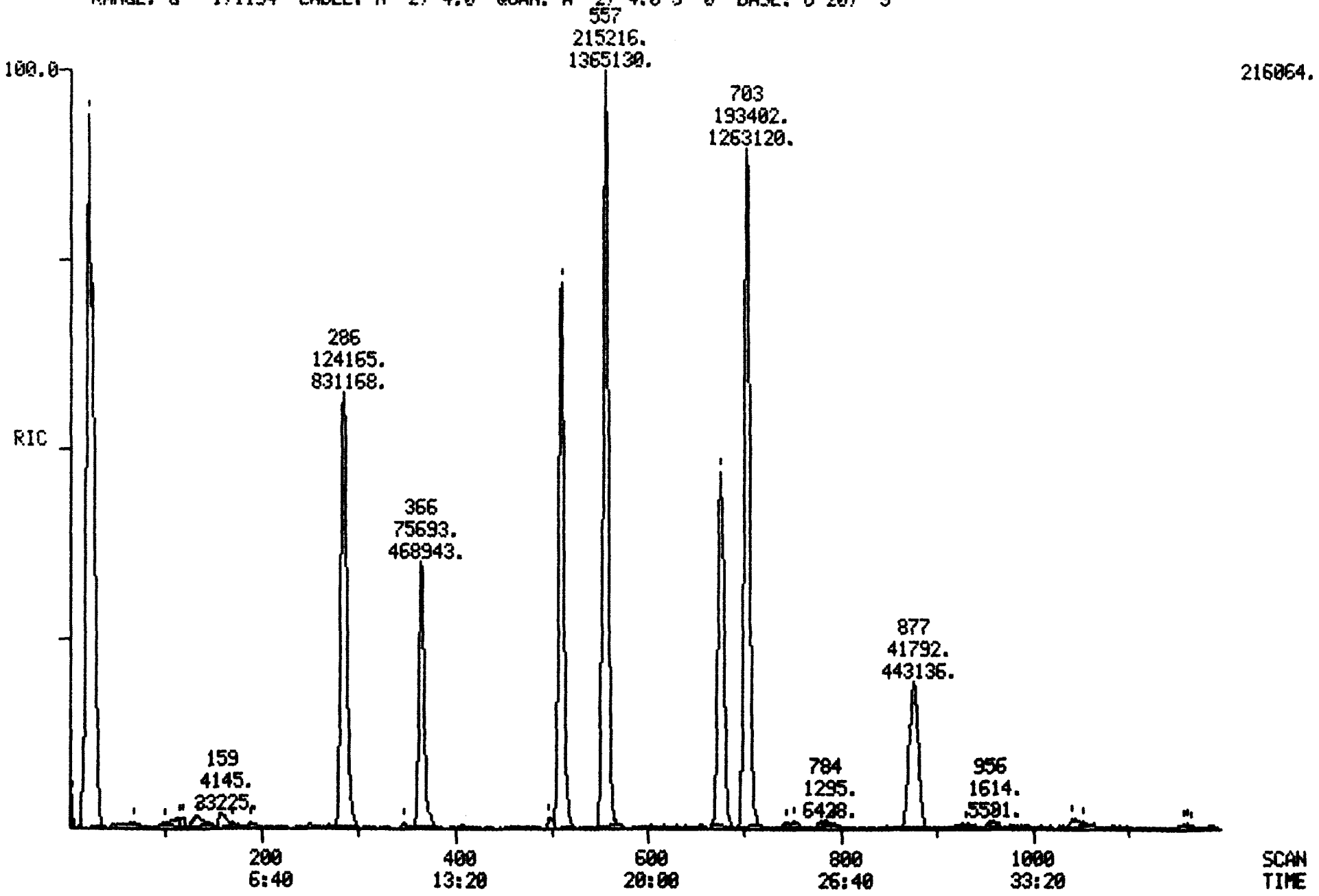
< ---- STANDARDS ----- ><				--- PLUS UNKNOWNS --- ><				- LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	3	3	55	6	6	1	40	VP_IS/VP_SURR
3	3	1	55	12	5	1	34	VP_IS/VP_CMPDS1
3	3	1	55	12	4	1	67	VP_IS/VP_CMPDS2
3	3	1	55	12	4	1	47	VP_IS/VP_CMPDS3
3	3	1	55	14	8	4	82	VP_IS/VP_CMPDS4

44 COMPOUNDS PROCESSED, 15 FOUND

< COMPOUND ><			---------- SEARCH ---------- >< SAT ><							------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	VP	1	286	286	286	.	1	975	.	128	286	.	1
2	VP	2	557	557	557	.	3	997	.	77	557	.	1
3	VP	3	676	677	677	.	1	991	.	55	677	.	1
4	VP	4	366	366	366	.	1	989	.	65	366	.	1
5	VP	5	511	511	511	.	1	972	.	84	511	.	1
6	VP	6	703	703	703	.	1	997	.	98	703	.	1
7	VP	7	54	54	.	.	.	.	.	50	.	.	.
8	VP	8	84	84	.	.	.	.	.	94	.	.	.
9	VP	9	94	94	.	.	.	.	.	62	.	.	.
10	VP	10	126	126	.	.	.	.	.	64	.	.	.
11	VP	11	191	191	191	.	1	942	.	84	190	-1	1
12	VP	12	208	208	.	.	.	.	.	43	209	.	1
13	VP	13	212	212	.	.	.	.	.	56	.	.	.
14	VP	14	236	236	236	.	1	915	.	76	236	.	1
15	VP	15	232	232	.	.		.	.	53	.	.	.
16	VP	16	271	271	.	.	.	.	.	96	271	.	1
17	VP	17	309	309	.	.	.	.	.	63	308	.	1
18	VP	18	331	331	.	.	.	.	.	96	332	.	1
19	VP	19	348	348	.	.	.	.	.	83	348	.	1
20	VP	20	369	369	.	.	.	.	.	62	370	.	1
21	VP	21	367	367	368	1	1	984	.	72	368	.	1
22	VP	22	407	407	.	.	.	.	.	97	407	.	1
23	VP	23	407	407	.	.	.	.	.	117	.	.	
24	VP	24	-424	424	.	.	.	.	.	43	425	.	1
25	VP	25	435	435	.	.	.		.	83	434	.	1
26	VP	26	475	475	.	.	.	.	.	63	474	.	1
27	VP	27	483	483	.	.	.	.	.	75	483	.	1
28	VP	28	500	500	.	.	.	.	.	130	500	.	1
29	VP	29	518	518	.	.	.	.		129	517	.	1
30	VP	30	521	521	.	.	.	.	.	97	521	.	1
31	VP	31	515	515	.	.	.	.	.	78	.	.	.
32	VP	32	520	520	.	.	.	.	.	75	522	.	1
33	VP	33	557	557	557	.	1	906	.	63	557	.	1
34	VP	34	598	599	.	.	.	.	.	173	599		1
35	VP	35	612	613	613	.	1	928	.	43	612	-1	1
36	VP	36	-659	660	.	.	.	.	.	43	659	.	1
37	VP	37	669	670	.	.	.	.	.	164	669	.	1
38	VP	38	668	669	.	.	.	.	.	83	668	.	1
39	VP	39	709	710	.	.	.		.	92	709	.	1
40	VP	40	743	744	.	.	.	.	.	112	743	.	1
41	VP	41	801	802	801	-1	1	912	.	106	801		1
42	VP	42	921	922	923	1	2	952	.	104	.	.	.
43	VP	44	928	929	928	-1	2	950	.	106	926	-2	1
44	VP	45	957	958	959	1	1	943	.	106	959	.	1

RIC
05/25/93 18:43:00
SAMPLE: CLP,1187,,0525BLK1,L,W,,V,BLANK
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
RANGE: G 1,1194 LABEL: N 2, 4.0 QUAN: A 2, 4.0 J 0 BASE: U 20, 3

DATA: 0525BLK1 #1
CALI: 0525BLK1 #3
SCANS 1 TO 1194



Quantitation Report File: 0525BLK1

Data: 0525BLK1.TI
05/25/93 18:43:00
Sample: CLP,1187,,0525BLK1,L,W,,V,BLANK
Conds.: 45' (3 MIN) TO 220' @ 8'/MIN
Formula: Instrument: INCOS1 Weight: 0.000
Submitted by: Analyst: ZAR Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C040	CARBON DISULFIDE	
15	C043	ACRYLONITRILE	
16	C045	1,1-DICHLOROETHENE	
17	C050	1,1-DICHLOROETHANE	
18	C053	1,2-DICHLOROETHENE (TOTAL)	
19	C060	CHLOROFORM	
20	C065	1,2-DICHLOROETHANE	
21	C110	2-BUTANONE	
22	C115	1,1,1-TRICHLOROETHANE	
23	C120	CARBON TETRACHLORIDE	
24	C125	VINYL ACETATE	
25	C130	BROMODICHLOROMETHANE	
26	C140	1,2-DICHLOROPROPANE	
27	C143	CIS-1,3-DICHLOROPROPENE	
28	C150	TRICHLOROETHENE	
29	C155	DIBROMOCHLOROMETHANE	
30	C160	1,1,2-TRICHLOROETHANE	
31	C165	BENZENE	
32	C172	TRANS-1,3-DICHLOROPROPENE	
33	C175	2-CHLOROETHYLVINYL ETHER	
34	C180	BROMOFORM	
35	C205	4-METHYL-2-PENTANONE	
36	C210	2-HEXANONE	
37	C220	TETRACHLOROETHENE	
38	C225	1,1,2,2-TETRACHLOROETHANE	
39	C230	TOLUENE	
40	C235	CHLOROBENZENE	
41	C240	ETHYL BENZENE	
42	C245	STYRENE	
43	C260	M-XYLENE	
44	C270	O-&/OR P-XYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	286	9:32	1	1.000	A BB	124317.	10.000	UG/L	12.54
2	77	557	18:34	2	1.000	A BB	356679.	10.000	UG/L	12.54
3	55	677	22:34	3	1.000	A BB	239772.	10.000	UG/L	12.54
4	65	366	12:12	1	1.280	A BB	151231.	10.152	UG/L	12.73
5	84	511	17:02	2	0.917	A BB	428218.	9.196	UG/L	11.53
6	98	703	23:26	3	1.038	A BB	484137.	9.101	UG/L	11.41
7	NOT FOUND									
8	NOT FOUND									
9	NOT FOUND									
10	NOT FOUND									
11	84	190	6:20	1	0.664	A BB	2984.	0.225	UG/L	0.28
12	43	209	6:58	1	0.731	A BB	7405.	6.554	UG/L	8.22
13	NOT FOUND									
14	76	236	7:52	1	0.825	A BV	1271.	0.030	UG/L	0.04
15	NOT FOUND									
16	96	271	9:02	1	0.948	A BB	736.	0.037	UG/L	0.05
17	63	308	10:16	1	1.077	A BB	70.	0.002	UG/L	0.00
18	96	332	11:04	1	1.161	A BB	154.	0.007	UG/L	0.01
19	83	348	11:36	1	1.217	A BB	1583.	0.039	UG/L	0.05
20	62	370	12:20	1	1.294	A BB	239.	0.014	UG/L	0.02
21	72	368	12:16	2	0.661	A BB	675.	1.330	UG/L	1.67
22	97	407	13:34	2	0.731	A BB	954.	0.028	UG/L	0.04
23	NOT FOUND									
24	43	425	14:10	2	0.763	A BB	1161.	0.518	UG/L	0.65
25	83	434	14:28	2	0.779	A BB	75.	0.003	UG/L	0.00
26	63	474	15:48	2	0.851	A BB	53.	0.002	UG/L	0.00
27	75	483	16:06	2	0.867	A BB	99.	0.005	UG/L	0.01
28	130	500	16:40	2	0.898	A BB	4288.	0.125	UG/L	0.16
29	129	517	17:14	2	0.928	A BB	163.	0.007	UG/L	0.01
30	97	521	17:22	2	0.935	A BB	363.	0.028	UG/L	0.03
31	NOT FOUND									
32	75	522	17:24	2	0.937	A BB	232.	0.005	UG/L	0.01
~~33~~	~~63~~	~~557~~	~~18:34~~	~~2~~	~~1.000~~	~~A BB~~	~~4276.~~	~~11.032~~	~~UG/L~~	~~13.83~~
34	173	599	19:58	2	1.075	A BB	560.	0.035	UG/L	0.04
35	43	612	20:24	3	0.904	A BB	3761.	0.392	UG/L	0.49
36	43	659	21:58	3	0.973	A BB	3592.	0.614	UG/L	0.77
37	164	669	22:18	3	0.988	A BB	1088.	0.028	UG/L	0.04
38	83	668	22:16	3	0.987	A BV	1212.	0.097	UG/L	0.12
39	92	709	23:38	3	1.047	A BB	2420.	0.051	UG/L	0.06
40	112	743	24:46	3	1.097	A BB	1725.	0.027	UG/L	0.03
41	106	801	26:42	3	1.183	A BB	1011.	0.031	UG/L	0.04
42	NOT FOUND									
43	106	926	30:52	3	1.368	A BB	1503.	0.043	UG/L	0.05
44	106	959	31:58	3	1.417	A VB	728.	0.022	UG/L	0.03

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:30	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	18:32	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	22:32	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:12	1.00	1.284	1.00	10.15	10.00	1.216	1.198	1.02
5	17:00	1.00	0.917	1.00	9.20	10.00	1.201	1.306	0.92
6	23:24	1.00	1.038	1.00	9.10	10.00	2.019	2.218	0.91
7	1:44		0.182						
8	2:48		0.295						
9	3:06		0.326						
10	4:12		0.442						

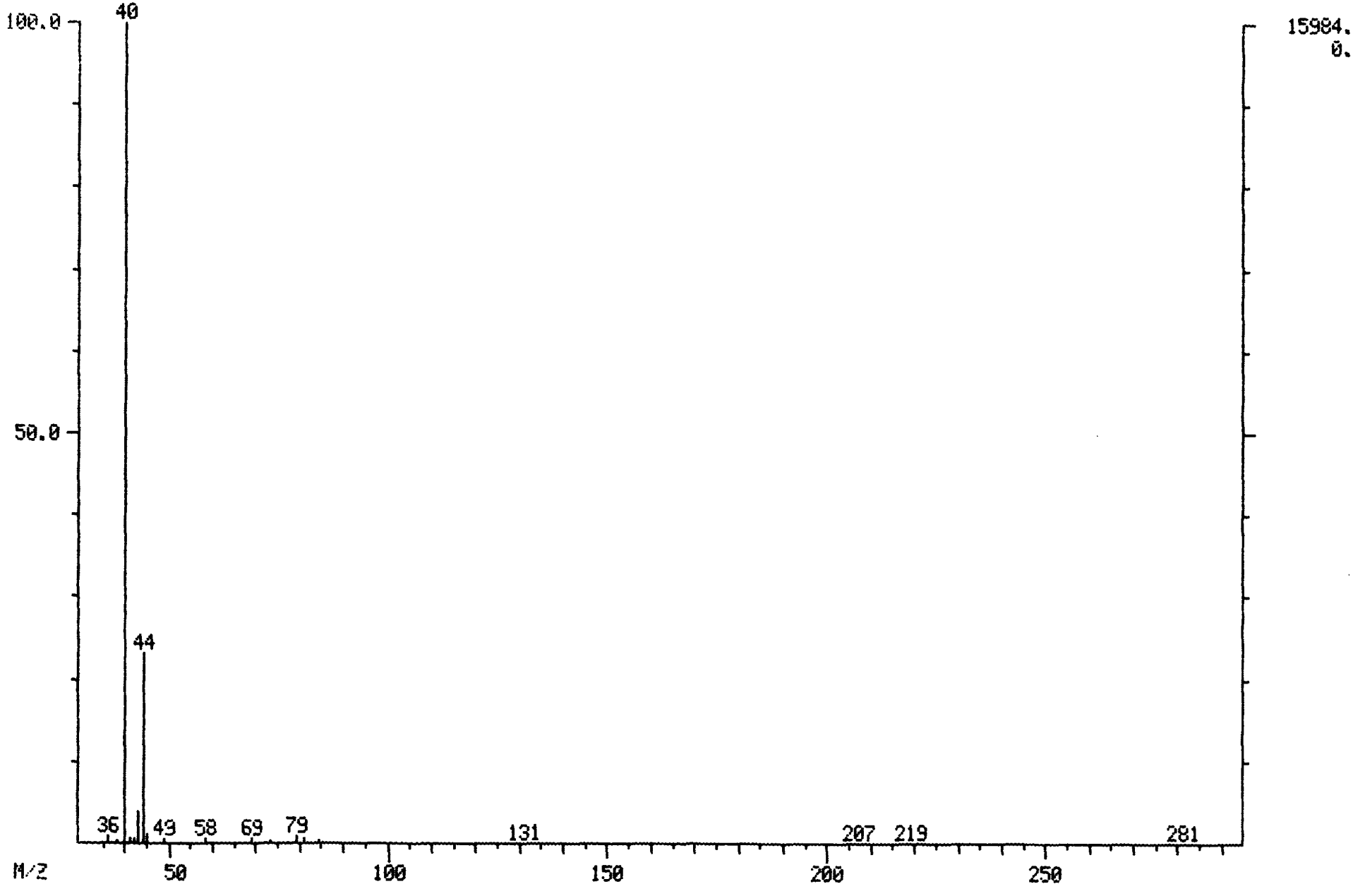
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	6:20	1.00	0.667	1.00	0.22	15.00	0.016	1.068	0.01
12	6:54	1.01	0.726	1.01	6.55	75.00	0.008	0.091	0.09
13	7:02		0.740						
14	7:50	1.00	0.825	1.00	0.03	15.00	0.007	3.365	0.00
15	7:40		0.807						
16	9:02	1.00	0.951	1.00	0.04	15.00	0.004	1.622	0.00
17	10:16	1.00	1.081	1.00	0.00	15.00	0.000	3.192	0.00
18	11:00	1.01	1.158	1.00	0.01	15.00	0.001	1.719	0.00
19	11:34	1.00	1.218	1.00	0.04	15.00	0.008	3.282	0.00
20	12:18	1.00	1.295	1.00	0.01	15.00	0.001	1.385	0.00
21	12:12	1.01	0.658	1.00	1.33	75.00	0.000	0.014	0.02
22	13:32	1.00	0.730	1.00	0.03	15.00	0.002	0.944	0.00
23	13:32		0.730						
24	14:06	1.00	0.761	1.00	0.52	30.00	0.001	0.063	0.02
25	14:28	1.00	0.781	1.00	0.00	15.00	0.000	0.816	0.00
26	15:48	1.00	0.853	1.00	0.00	15.00	0.000	0.637	0.00
27	16:04	1.00	0.867	1.00	0.01	24.30	0.000	0.510	0.00
28	16:38	1.00	0.897	1.00	0.13	15.00	0.008	0.961	0.01
29	17:14	1.00	0.930	1.00	0.01	15.00	0.000	0.657	0.00
30	17:20	1.00	0.935	1.00	0.03	15.00	0.001	0.367	0.00
31	17:08		0.924						
32	17:20	1.00	0.935	1.00	0.00	5.70	0.001	1.305	0.00
33	18:32	1.00	1.000	1.00	11.03	15.00	0.008	0.011	0.74
34	19:54	1.00	1.074	1.00	0.04	15.00	0.001	0.447	0.00
35	20:22	1.00	0.904	1.00	0.39	30.00	0.005	0.400	0.01
36	21:56	1.00	0.973	1.00	0.61	30.00	0.005	0.244	0.02
37	22:16	1.00	0.988	1.00	0.03	15.00	0.003	1.620	0.00
38	22:14	1.00	0.987	1.00	0.10	15.00	0.003	0.519	0.01
39	23:36	1.00	1.047	1.00	0.05	15.00	0.007	1.973	0.00
40	24:44	1.00	1.098	1.00	0.03	15.00	0.005	2.671	0.00
41	26:40	1.00	1.183	1.00	0.03	15.00	0.003	1.349	0.00
42	30:36		1.358						
43	30:52	1.00	1.370	1.00	0.04	15.00	0.004	1.465	0.00
44	31:50	1.00	1.413	1.00	0.02	15.00	0.002	1.363	0.00

MASS SPECTRUM
05/25/93 18:43:00 + 6:58
SAMPLE: CLP,1187,,0525BLK1,L,W,,V,BLANK
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
TEMP: 76 DEG. C

DATA: 0525BLK1 #209
CALI: 0525BLK1 #3

BASE M/Z: 40
RIC: 21664.

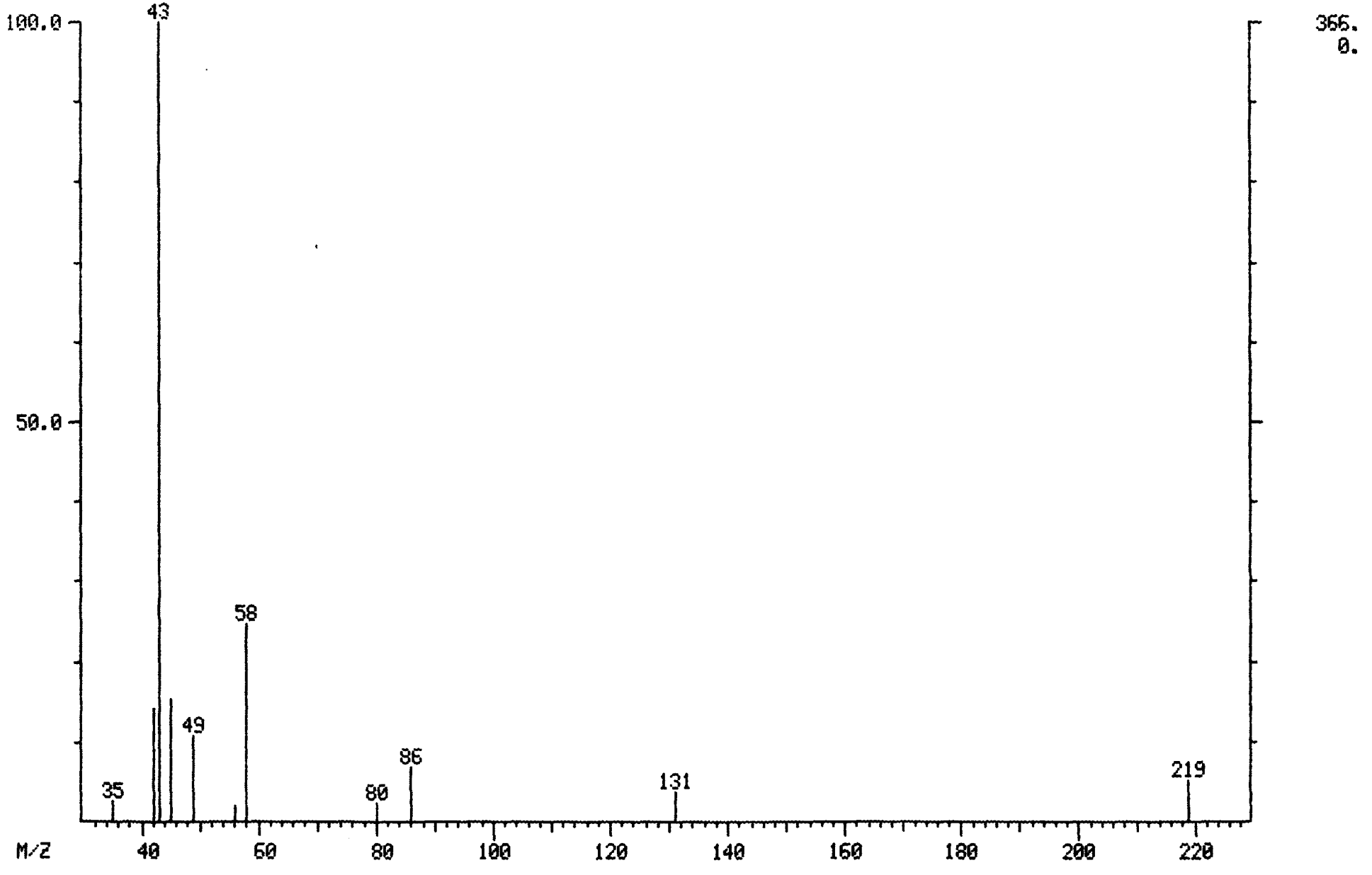
NAME: C035 ACETONE



MASS SPECTRUM
05/25/93 18:43:00 + 6:58
SAMPLE: CLP,1187,,0525BLK1,L,W,,V,BLANK
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
TEMP: 76 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C035 ACETONE

DATA: 0525BLK1 #209
CALI: 0525BLK1 #3

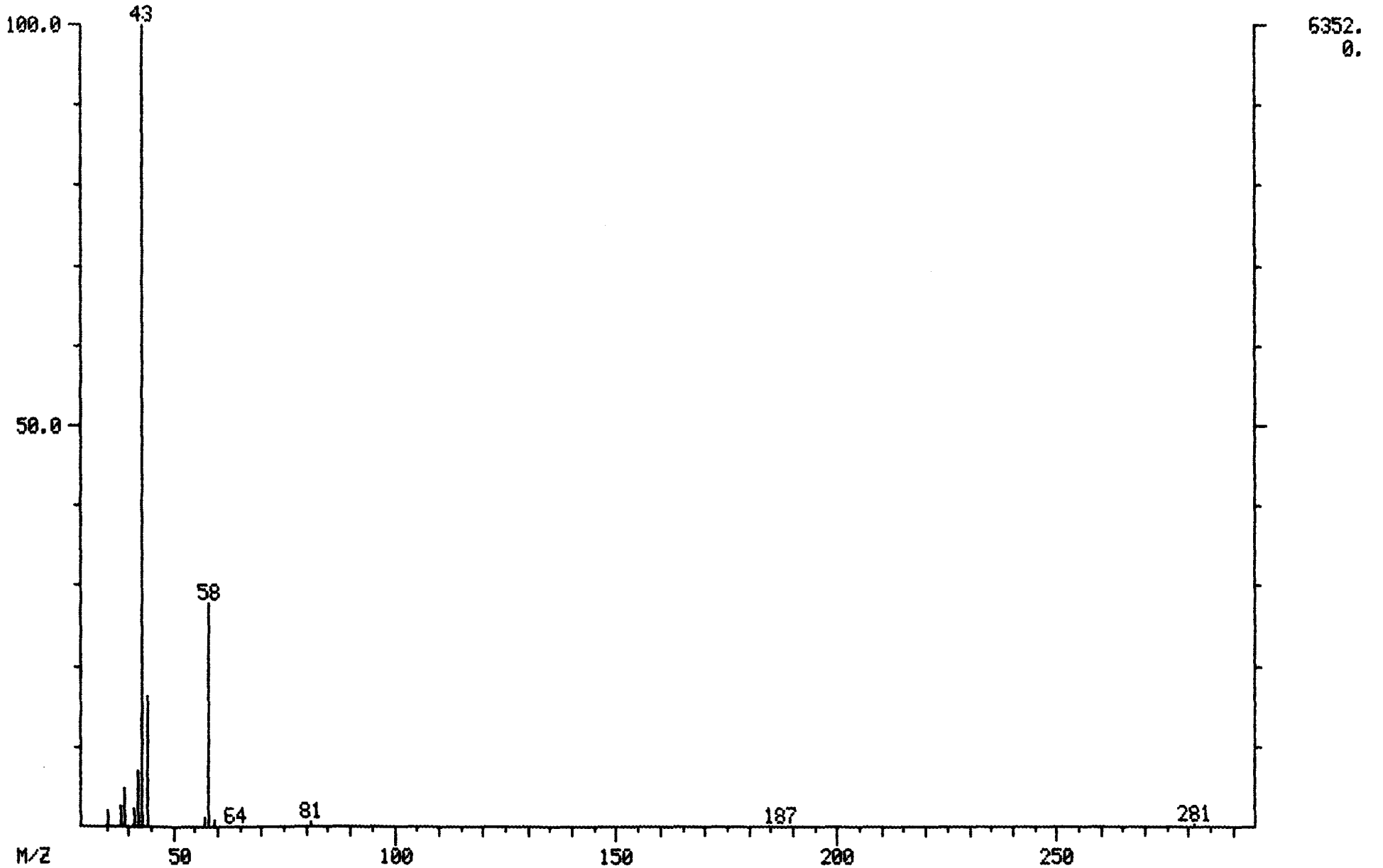
BASE M/Z: 43
RIC: 685.



MASS SPECTRUM
05/25/93 10:49:00 + 6:48
SAMPLE: CLP,1187,,CC0525,L,W,,V,CC
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
TEMP: 74 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C035 ACETONE

DATA: CC0525 #204
CALI: CC0525 #3

BASE M/Z: 43
RIC: 10528.



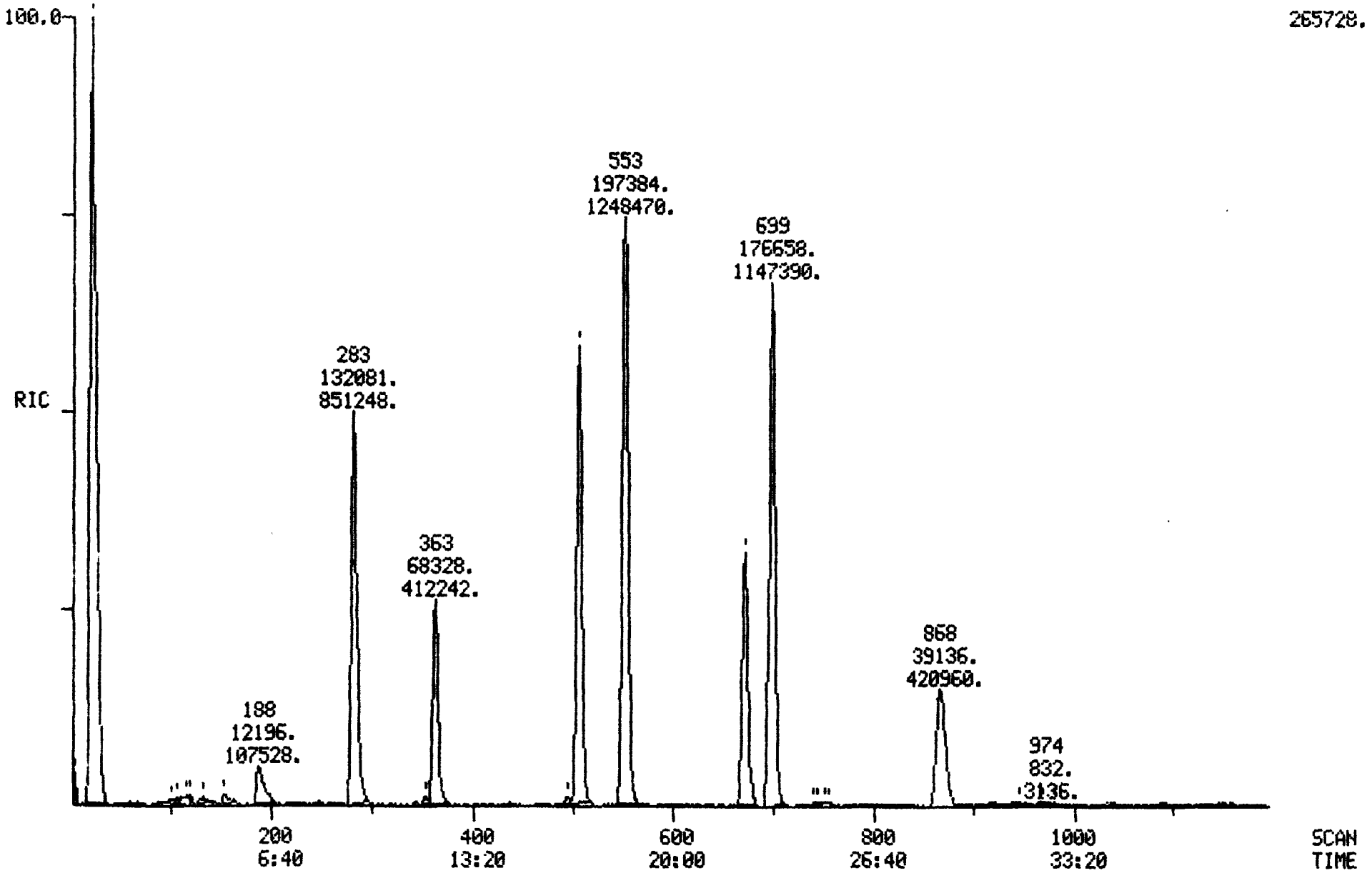
PROCEDURE: TCA DIAGNOSTIC REPORT 5/26/93 14:55:07
DATA FILE: 0526BLK2
REFERENCE: VP11
NAME LIST: VP INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: VP_IS

< ---- STANDARDS ----- ><				--- PLUS UNKNOWNS --- ><				- LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	3	2	0	6	6	1	41	VP_IS/VP_SURR
3	3	1	0	12	5	2	44	VP_IS/VP_CMPDS1
3	3	1	0	12	4	1	56	VP_IS/VP_CMPDS2
3	3	1	0	12	4	1	61	VP_IS/VP_CMPDS3
3	3	1	0	14	6	2	59	VP_IS/VP_CMPDS4

44 COMPOUNDS PROCESSED, 13 FOUND

< COMPOUND ><			---------- SEARCH	----------			>< SAT ><			------ CHRO			------- >
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	VP	1	282	283	283	.	1	974	.	128	283	.	1
2	VP	2	552	553	553	.	2	994	.	77	553	.	1
3	VP	3	671	672	672	.	1	995	.	55	672	.	1
4	VP	4	363	364	363	-1	1	985	.	65	363	.	1
5	VP	5	506	507	507	.	1	971	.	84	507	.	1
6	VP	6	698	699	699	.	1	997		98	699	.	1
7	VP	7	-54	54	.	.	.	.	.	50	53	.	1
8	VP	8	-83	83	.	.	.	.	.	94	.	.	.
9	VP	9	-92	92	.	.	.	.	.	62	90	.	1
10	VP	10	-124	125	.	.	.	.	.	64	.	.	.
11	VP	11	188	189	188	-1	1	977	.	84	188	.	1
12	VP	12	-205	206	.		.	.	.	43	.	.	.
13	VP	13	-212	213	.	.	.	.	.	56	.	.	.
14	VP	14	234	235	235	.	2	933	.	76	235	.	1
15	VP	15	-229	230	.	.	.	.	.	53	.	.	.
16	VP	16	-267	268	.	.	.	.	.	96	267	.	1
17	VP	17	-304	305	.	.	.	.	.	63		.	.
18	VP	18	-327	328	.	.	.	.	.	96	.	.	.
19	VP	19	-343	344	.	.	.	.	.	83	345	.	1
20	VP	20	-365	366	.	.	.	.	.	62	.	.	.
21	VP	21	363	364	365	1	1	982	.	72	365	.	1
22	VP	22	-402	403	.	.	.	.	.	97	404	.	1
23	VP	23	-402	403	.	.	.	.	.	117	.	.	.
24	VP	24	-419	420	.	.	.	.	.	43	.	.	.
25	VP	25	-430	431	.	.	.	.	.	83	.	.	.
26	VP	26	-470	471	.	.	.	.	.	63	.	.	.
27	VP	27	-478	479	.	.	.	.	.	75	.	.	.
28	VP	28	496	497	.	.	.	.	.	130	496	.	1
29	VP	29	-513	514	.	.	.	.	.	129	.	.	.
30	VP	30	-516	517	.	.	.	.	.	97	.	.	.
31	VP	31	-510	511	.	.	.	.	.	78	.	.	.
32	VP	32	-516	517	.	.		.	.	75	.	.	.
33	VP	33	552	553	554	1	1	905	.	63	553	-1	1
34	VP	34	-593	594	.	.	.	.	.	173	.	.	.
35	VP	35	609	610	.	.	.	.	.	43	608	.	1
36	VP	36	-654	654	.	.	.	.	.	43	655	.	1
37	VP	37	-664	664	.	.	.	.	.	164	665	.	1
38	VP	38	-663	663	.	.	.	.	.	83	664	.	1
39	VP	39	704	704	704	.	1	934	.	92	704	.	1
40	VP	40	-738	738	.	.	.	.	.	112	740	.	1
41	VP	41	-795	795	.	.	.	.	.	106	794	.	1
42	VP	42	910	910	.	.	.	.	.	104	912	.	1
43	VP	44	918	918	917	-1	1	969	.	106	917	.	1
44	VP	45	946	946	946	.	2	955	.	106	944	-2	1

RIC DATA: 0526BLK2 #1 SCANS 1 TO 1194
05/26/93 14:13:00 CALI: 0526BLK2 #3
SAMPLE: CLP,1187,,0526BLK2,L,W,,V,BLANK
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
RANGE: G 1,1194 LABEL: N 2, 4.0 QUAN: A 2, 4.0 J 0 BASE: U 20, 3



Quantitation Report File: 0526BLK2

Data: 0526BLK2.TI
05/26/93 14:13:00
Sample: CLP,1187,,0526BLK2,L,W,,V,BLANK
Conds.: 45' (3 MIN) TO 220' @ 8'/MIN
Formula: Instrument: INCOS1 Weight: 0.000
Submitted by: Analyst: ZAR Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C040	CARBON DISULFIDE	
15	C043	ACRYLONITRILE	
16	C045	1,1-DICHLOROETHENE	
17	C050	1,1-DICHLOROETHANE	
18	C053	1,2-DICHLOROETHENE (TOTAL)	
19	C060	CHLOROFORM	
20	C065	1,2-DICHLOROETHANE	
21	C110	2-BUTANONE	
22	C115	1,1,1-TRICHLOROETHANE	
23	C120	CARBON TETRACHLORIDE	
24	C125	VINYL ACETATE	
25	C130	BROMODICHLOROMETHANE	
26	C140	1,2-DICHLOROPROPANE	
27	C143	CIS-1,3-DICHLOROPROPENE	
28	C150	TRICHLOROETHENE	
29	C155	DIBROMOCHLOROMETHANE	
30	C160	1,1,2-TRICHLOROETHANE	
31	C165	BENZENE	
32	C172	TRANS-1,3-DICHLOROPROPENE	
33	C175	2-CHLOROETHYLVINYL ETHER	
34	C180	BROMOFORM	
35	C205	4-METHYL-2-PENTANONE	
36	C210	2-HEXANONE	
37	C220	TETRACHLOROETHENE	
38	C225	1,1,2,2-TETRACHLOROETHANE	
39	C230	TOLUENE	
40	C235	CHLOROBENZENE	
41	C240	ETHYL BENZENE	
42	C245	STYRENE	
43	C260	M-XYLENE	
44	C270	O-&/OR P-XYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	283	9:26	1	1.000	A BB	134087.	10.000 UG/L	12.99
2	77	553	18:26	2	1.000	A BB	350807.	10.000 UG/L	12.99
3	55	672	22:24	3	1.000	A BB	208247.	10.000 UG/L	12.99
4	65	363	12:06	1	1.283	A BB	135883.	9.082 UG/L	11.79
5	84	507	16:54	2	0.917	A BB	435717.	10.021 UG/L	13.01
6	98	699	23:18	3	1.040	A BB	444587.	10.503 UG/L	13.64
7	50	53	1:46	1	0.187	A VB	429.	0.058 UG/L	0.08
8	NOT FOUND								
9	62	90	3:00	1	0.318	A BB	77.	0.007 UG/L	0.01
10	NOT FOUND								
11	84	188	6:16	1	0.664	A BB	28673.	2.026 UG/L	2.63
12	NOT FOUND								
13	NOT FOUND								
14	76	235	7:50	1	0.830	A BB	119.	0.003 UG/L	0.00
15	NOT FOUND								
16	96	267	8:54	1	0.943	A BB	329.	0.015 UG/L	0.02
17	NOT FOUND								
18	NOT FOUND								
19	83	345	11:30	1	1.219	A BB	1469.	0.033 UG/L	0.04
20	NOT FOUND								
21	72	365	12:10	2	0.660	A BB	77.	0.128 UG/L	0.17
22	97	404	13:28	2	0.731	A BB	700.	0.021 UG/L	0.03
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	130	496	16:32	2	0.897	A BB	3563.	0.100 UG/L	0.13
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
~~33~~	~~63~~	~~553~~	~~18:26~~	~~2~~	~~1.000~~	~~A BB~~	~~3895.~~	~~14.543 UG/L~~	~~18.89~~ ZR 6-14-93
34	NOT FOUND								
35	43	608	20:16	3	0.905	A BB	1175.	0.127 UG/L	0.16
36	43	655	21:50	3	0.975	A BV	1544.	0.250 UG/L	0.33
37	164	665	22:10	3	0.990	A BB	183.	0.005 UG/L	0.01
38	83	664	22:08	3	0.988	A BB	33.	0.003 UG/L	0.00
39	92	704	23:28	3	1.048	A BB	3616.	0.090 UG/L	0.12
40	112	740	24:40	3	1.101	A BB	259.	0.005 UG/L	0.01
41	106	794	26:28	3	1.182	A BB	164.	0.006 UG/L	0.01
42	104	912	30:24	3	1.357	A VB	694.	0.015 UG/L	0.02
43	106	917	30:34	3	1.365	A BB	375.	0.013 UG/L	0.02
44	106	944	31:28	3	1.405	A BB	137.	0.005 UG/L	0.01

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:26	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	18:26	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	22:24	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:06	1.00	1.283	1.00	9.08	10.00	1.013	1.116	0.91
5	16:54	1.00	0.917	1.00	10.02	10.00	1.242	1.239	1.00
6	23:18	1.00	1.040	1.00	10.50	10.00	2.135	2.033	1.05
7	1:46	1.00	0.187	1.00	0.06	30.00	0.001	0.552	0.00
8	2:44		0.290						
9	3:04	0.98	0.325	0.98	0.01	30.00	0.000	0.766	0.00
10	4:08		0.438						

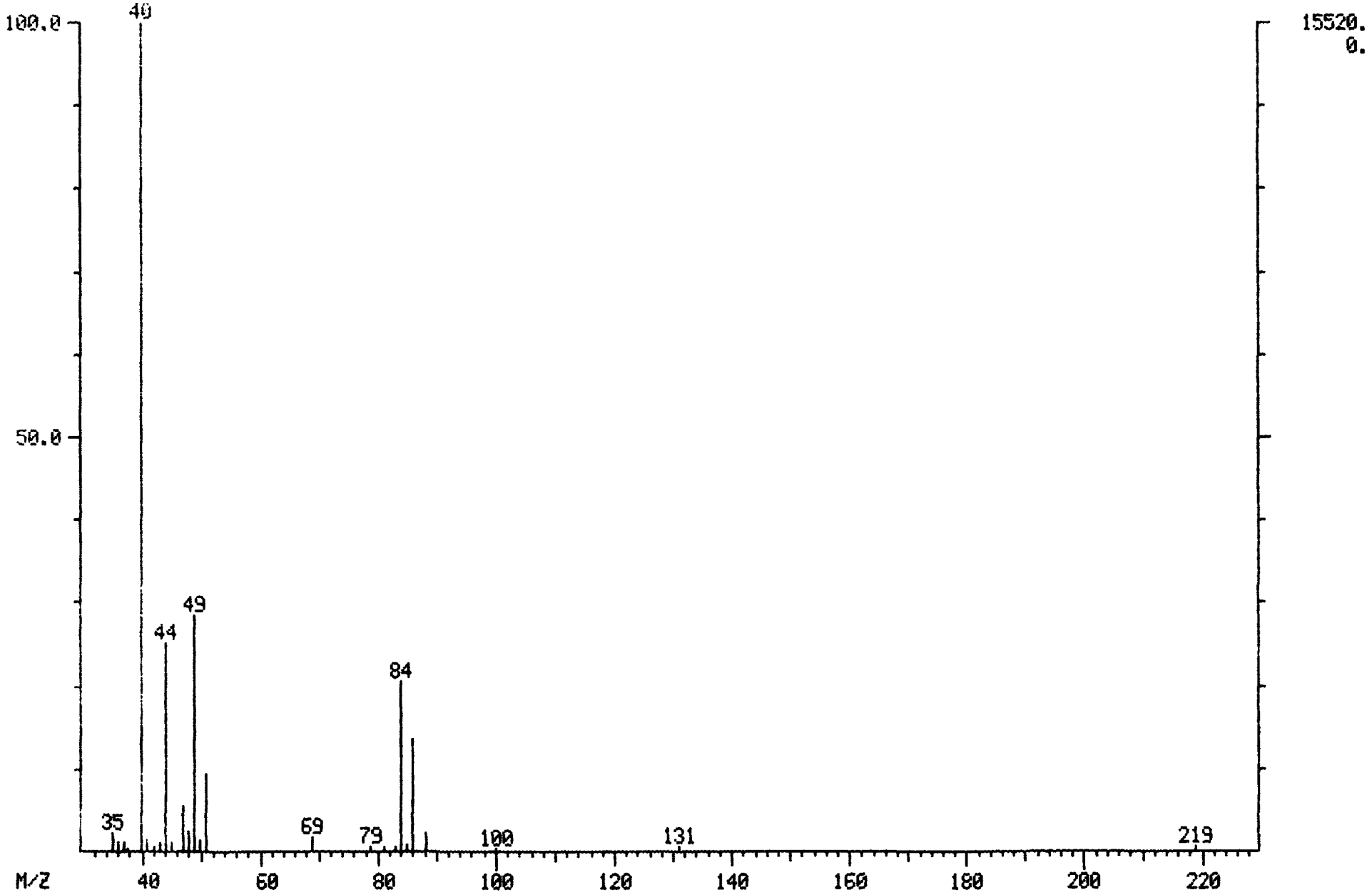
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	6:16	1.00	0.664	1.00	2.03	15.00	0.143	1.056	0.14
12	6:50		0.724						
13	7:04		0.749						
14	7:46	1.01	0.823	1.01	0.00	15.00	0.001	3.360	0.00
15	7:36		0.806						
16	8:56	1.00	0.947	1.00	0.02	15.00	0.002	1.586	0.00
17	10:10		1.078						
18	10:56		1.159						
19	11:28	1.00	1.216	1.00	0.03	15.00	0.007	3.279	0.00
20	12:12		1.293						
21	12:08	1.00	0.658	1.00	0.13	75.00	0.000	0.017	0.00
22	13:26	1.00	0.729	1.00	0.02	15.00	0.001	0.965	0.00
23	13:26		0.729						
24	14:02		0.761						
25	14:22		0.779						
26	15:42		0.852						
27	15:58		0.866						
28	16:32	1.00	0.897	1.00	0.10	15.00	0.007	1.012	0.01
29	17:08		0.929						
30	17:14		0.935						
31	17:02		0.924						
32	17:14		0.935						
33	18:26	1.00	1.000	1.00	14.54	15.00	0.007	0.008	0.97
34	19:48		1.074						
35	20:16	1.00	0.905	1.00	0.13	30.00	0.002	0.444	0.00
36	21:50	1.00	0.975	1.00	0.25	30.00	0.002	0.296	0.01
37	22:10	1.00	0.990	1.00	0.01	15.00	0.001	1.625	0.00
38	22:06	1.00	0.987	1.00	0.00	15.00	0.000	0.600	0.00
39	23:28	1.00	1.048	1.00	0.09	15.00	0.012	1.926	0.01
40	24:36	1.00	1.098	1.00	0.00	15.00	0.001	2.719	0.00
41	26:30	1.00	1.183	1.00	0.01	15.00	0.001	1.312	0.00
42	30:22	1.00	1.356	1.00	0.02	15.00	0.002	2.194	0.00
43	30:38	1.00	1.368	1.00	0.01	15.00	0.001	1.404	0.00
44	31:34	1.00	1.409	1.00	0.00	15.00	0.000	1.366	0.00

MASS SPECTRUM
05/26/93 14:13:00 + 6:16
SAMPLE: CLP,1187,,0526BLK2,L,W,,V,BLANK
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
TEMP: 70 DEG. C

DATA: 0526BLK2 #188
CALI: 0526BLK2 #3

BASE M/Z: 40
RIC: 34688.

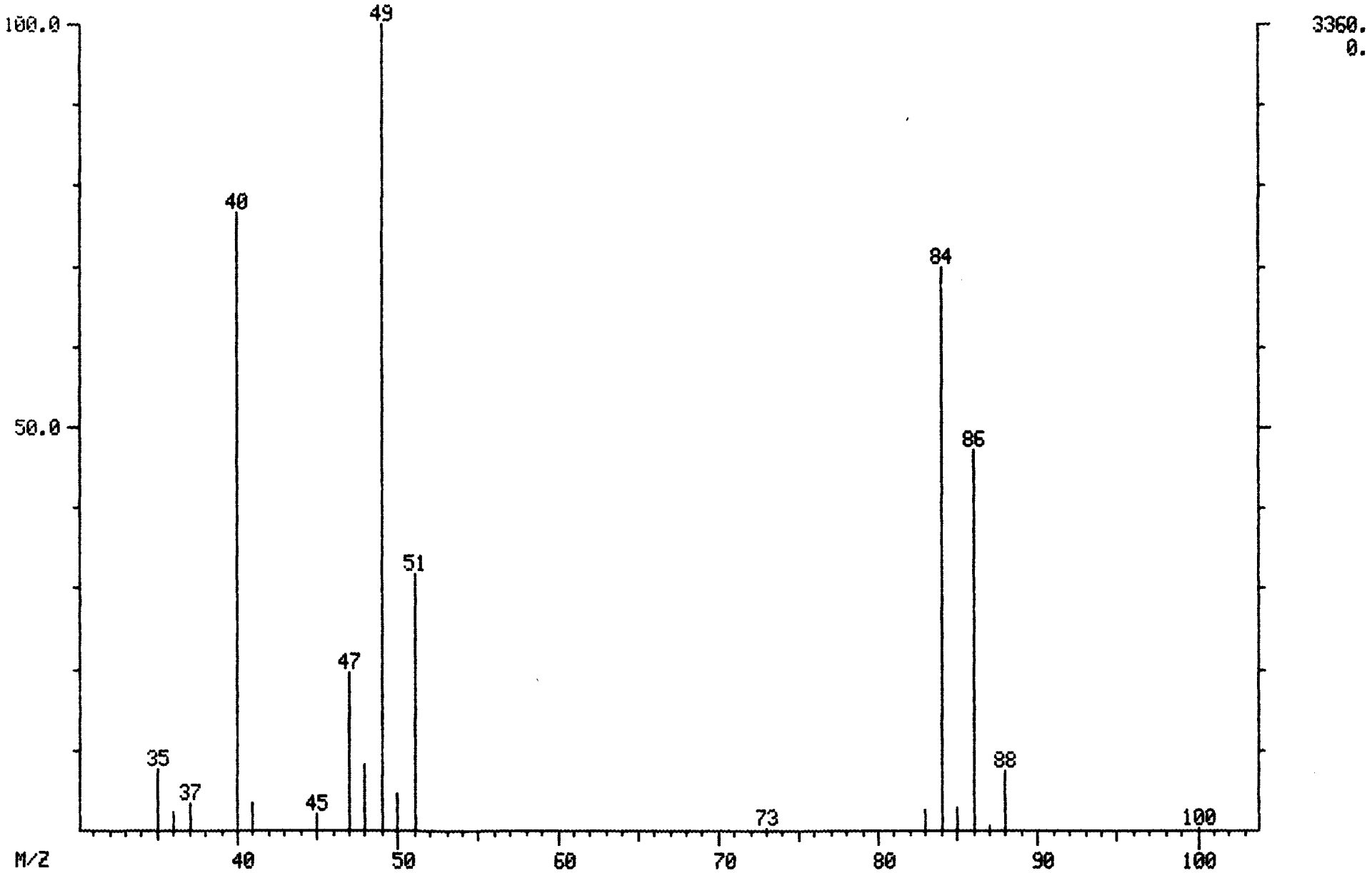
NAME: C030 METHYLENE CHLORIDE



MASS SPECTRUM
05/26/93 14:13:00 + 6:16
SAMPLE: CLP,1187,,0526BLK2,L,W,,V,BLANK
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
TEMP: 70 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C030 METHYLENE CHLORIDE

DATA: 0526BLK2 #188
CALI: 0526BLK2 #3

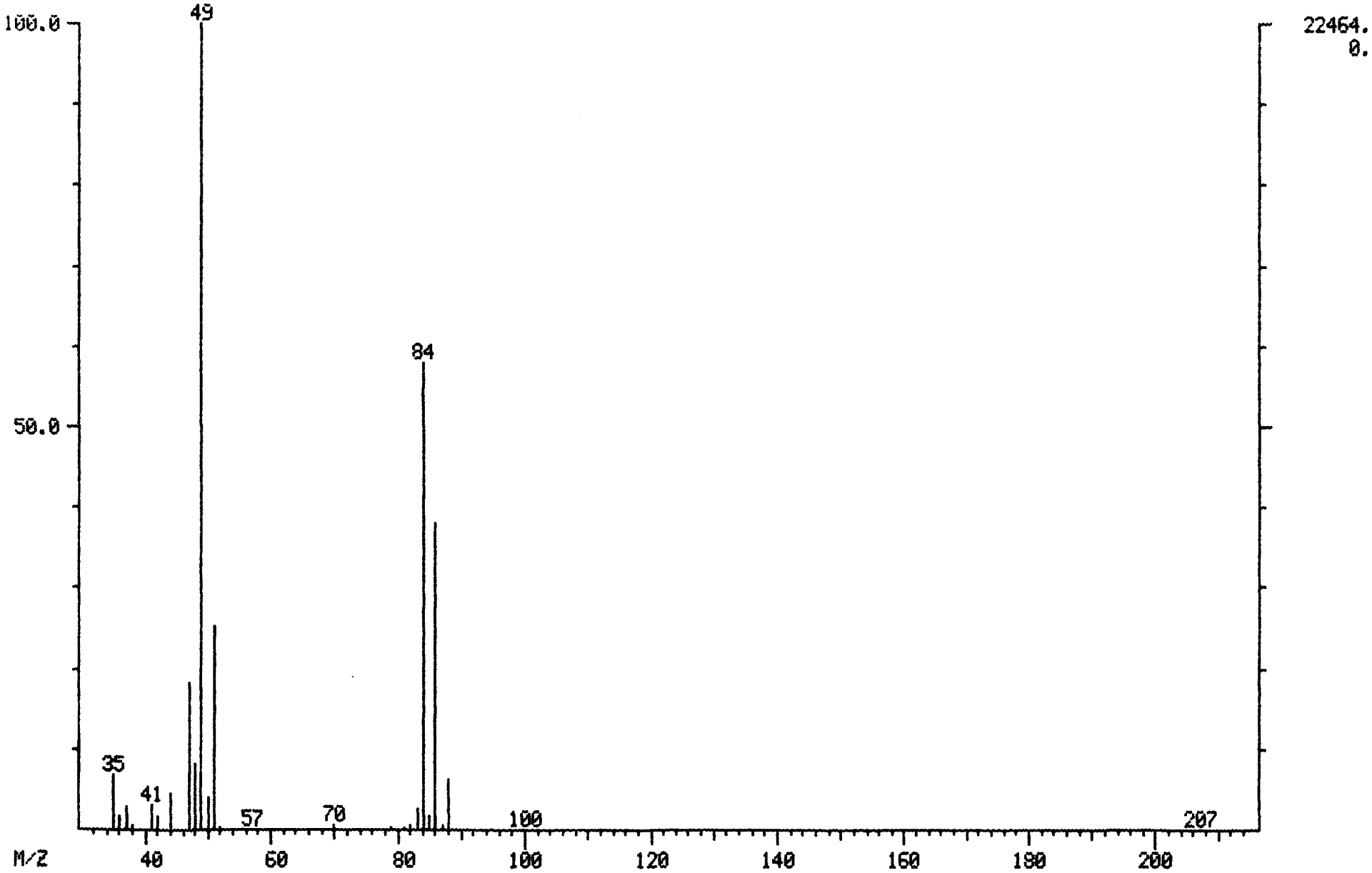
BASE M/Z: 49
RIC: 13152.



MASS SPECTRUM
05/26/93 12:38:00 + 6:16
SAMPLE: CLP,1187,,CC0526B,L,W,,V,CC
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
TEMP: 70 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C030 METHYLENE CHLORIDE

DATA: CC0526B #188
CALI: CC0526B #3

BASE M/Z: 49
RIC: 64448.



QUANT REPORT

Operator ID: TONY
Output File: ^AG218::D2
Data File: >AG218::D3
Name: 93ZE06R60 SF1187
Misc: 05/18/93 #10

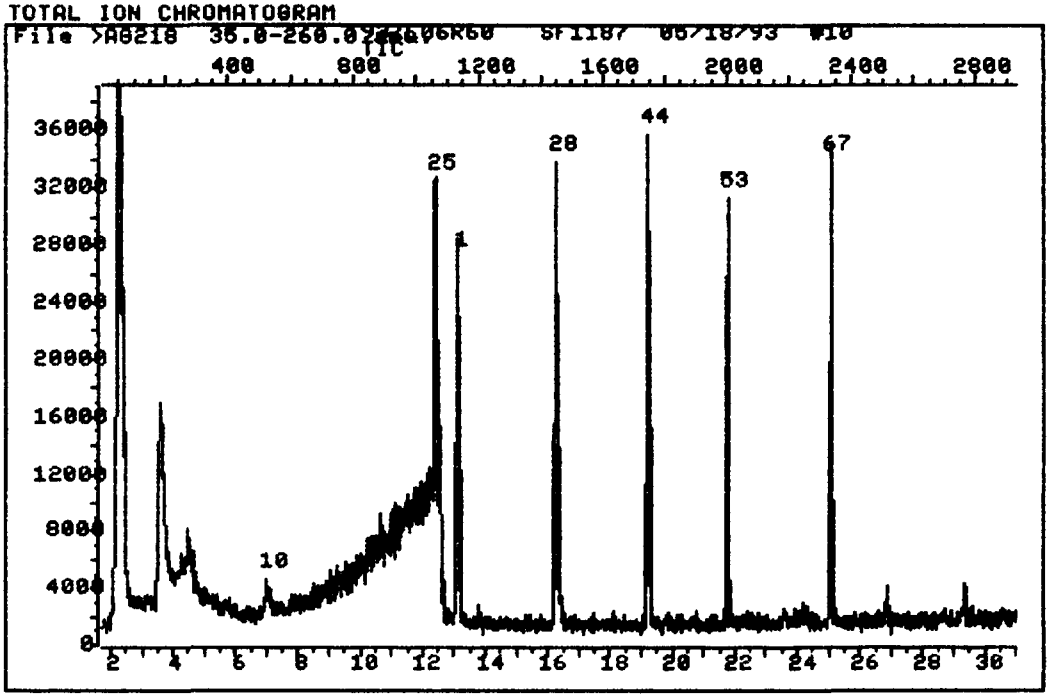
Quant Rev: 7
Quant Time: 930615 16:10
Injected at: 930518 20:26
Dilution Factor: 1.00000
Instrument ID: HP MS#4

ID File: IDAG05::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930518 10:10
Last Qcal Time: 930518 14:24

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.08	96.0	57550	10.00	ug/L	96
10)	Acetone	6.99	43.0	12334	23.79	ug/L	93
25)	BENZENE-D6	12.38	84.0	51443	9.44	ug/L	99
28)	*TOLUENE-D8	16.25	98.0	55630	10.00	ug/L	95
44)	*CHLOROBENZENE-D5	19.19	117.0	43581	10.00	ug/L	97
53)	p-BROMOFLUOROBENZENE	21.74	174.0	19208	9.07	ug/L	99
67)	1,2-DICHLOROBENZENE-D4	25.04	152.0	20584	9.73	ug/L	90

* Compound is ISTD

TOTAL ION CHROMATOGRAM

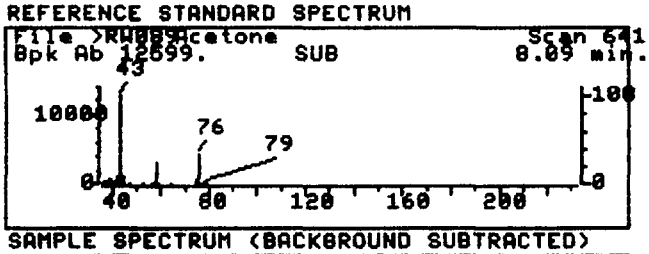


Data File: >AG218::D3 Quant Output File: ^AG218::D2
Name: 93ZE06R60 SF1187 Instrument ID: HP MS#4
Misc: 05/18/93 #10

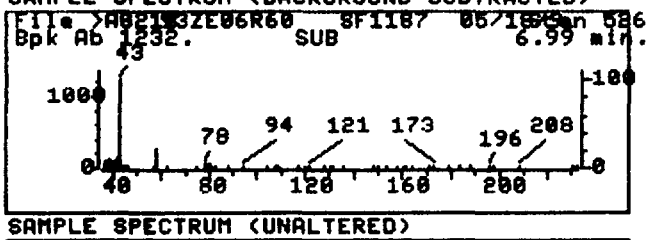
Id File: IDAG05::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930518 10:10 Last Qcal Time: 930518 14:24

Operator ID: TONY
Quant Time : 930615 16:10
Injected at: 930518 20:26

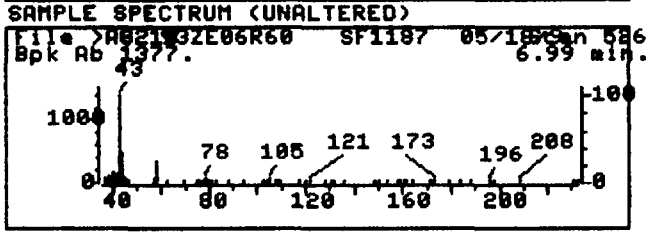
REFERENCE STANDARD SPECTRUM

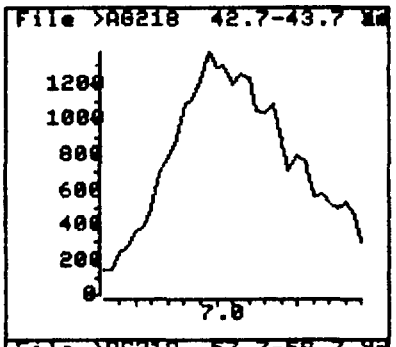


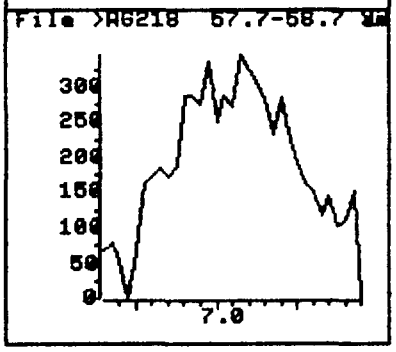
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







Data File: >AG218::D3
Name: 93ZE06R60 SF1187
Misc: 05/18/93 #10
Quant Time: 930615 16:10
Injected at: 930518 20:26
Last Qcal Time: 930518 14:24

Quant Output File: ^AG218::D2
Instrument ID: HP MS#4

Quant ID File: IDAG05::QT
Last Calibration: 930518 10:10

Compound No : 10
Compound Name : Acetone
Scan Number : 526
Retention Time: 6.99 min.
Quant Ion : 43.0
Area : 12334
Concentration : 23.79 ug/L
q-value : 93

MS data file header from : >AG218::D3

Sample: 93ZE06R60 SF1187 Operator: TUNY REG. GRP. 5/18/93 20:26
Misc : 05/18/93 #10
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 0 Equip ID: HP MS#4
Method file: VOA#1 Tuning file: MTMSD1 No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	10.	160.	0.	0.	0.
Chromatographic times, min. :	5.0	5.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	6.0	0.0	0.0	.1	0.0

>AG218 93ZE06R60 SF1187 05/18/93 #10
35.01 260.0 CLP TIC
Upslope: .2000 Area Reject: 13817. Max Peaks: 1 Bunch: -1 Valley >100 %
Dnslope: 0.0000 Results File IAG218 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	3.58	170	185	213	14033	234262	159421	100.00	100.000

Sum of corrected areas: 159421.

Summary of Unknowns PBM Library Search and Quantitation

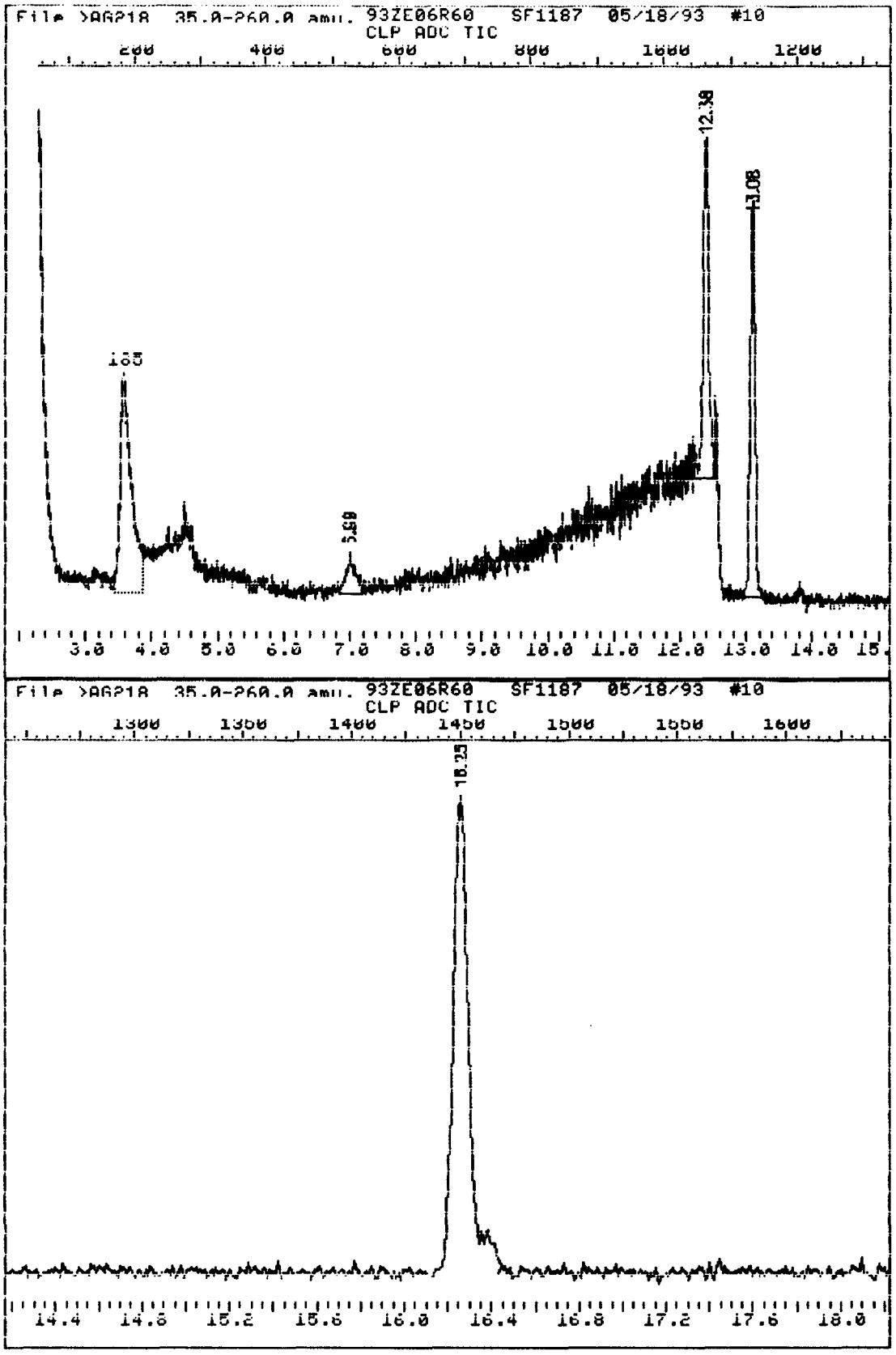
Standard	Concentration	Area	Retention Time	Unknown Window
1	10.0	138168.	13.08	2.30 - 14.67
2	10.0	155023.	16.25	14.67 - 17.72
3	10.0	151936.	19.19	17.72 - 31.01

Dilution Factor = 1.00 This sample was 5.00000 g or mL

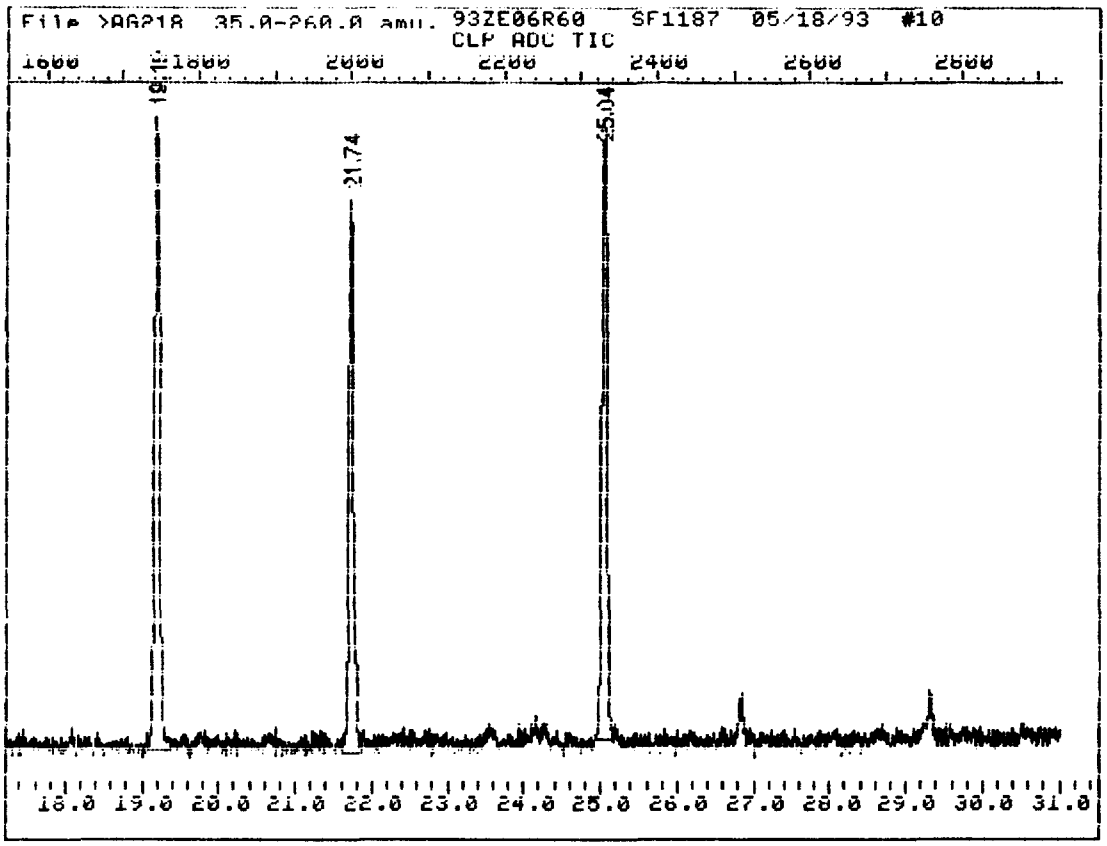
Correction Factor = 1.00

$$\text{Unknown Concentration} = \frac{\text{Conc Int Std} * \text{Area Unknown}}{\text{Area Int Std}} * \text{Correction Factor}$$

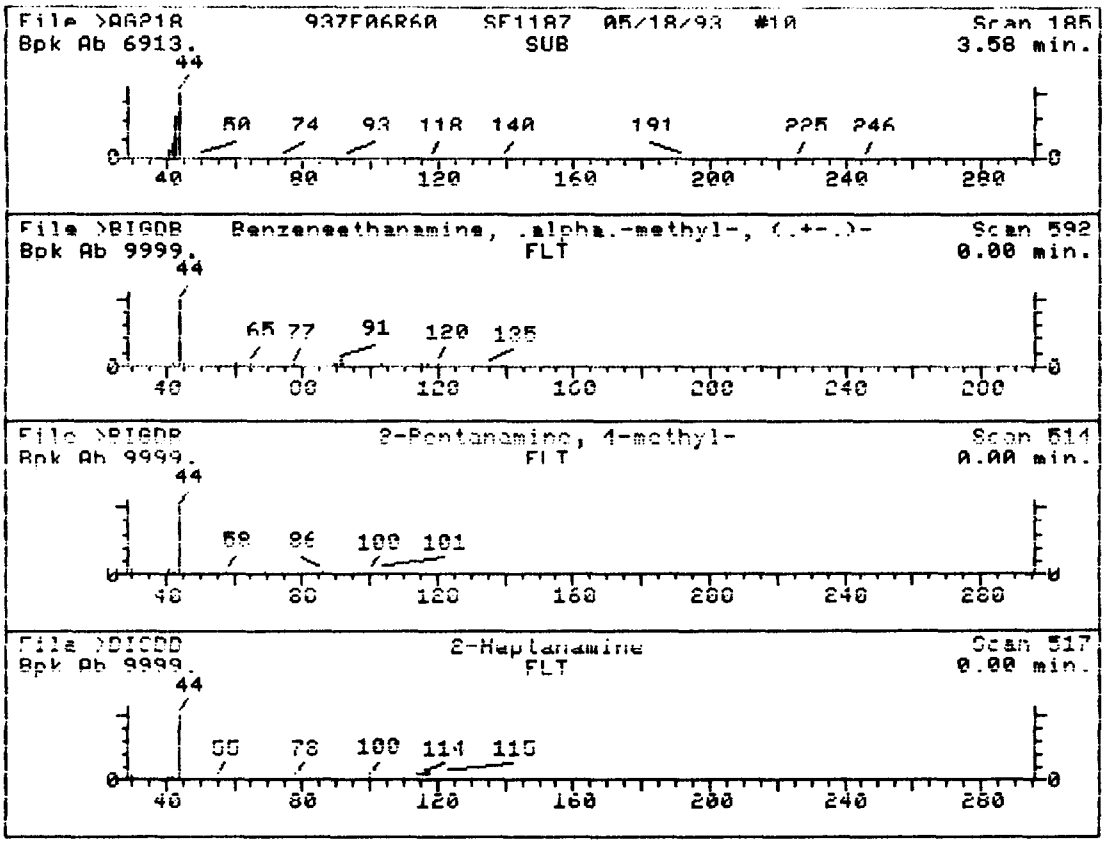
11:31 AM WED., 16 JUNE, 1993



Instrument ID: HP MS# Analyzed on: 5/18/93 20:26



Instrument ID: HP MS# Analyzed on: 5/18/93 20:26



Instrument ID: HP MS# Analyzed on: 5/18/93 20:26
Result 1 in PBM results file: LAG218
Retention Time: 3.58 Area: 159421 Tentative Conc: 12.00
The unknown area is 115.38% of the nearest internal standard

1.	Benzeneethanamine, .alpha.-methyl-, (.+-.)-	135	C9H13N
2.	2-Pentanamine, 4-methyl-	101	C6H15N
3.	2-Heptanamine	115	C7H17N
4.	2-Hexanamine	101	C6H15N
5.	Nortriptyline	263	C19H21N
6.	Dodecanoic acid, 11-amino-, methyl ester	229	C13H27NO2

Unknown

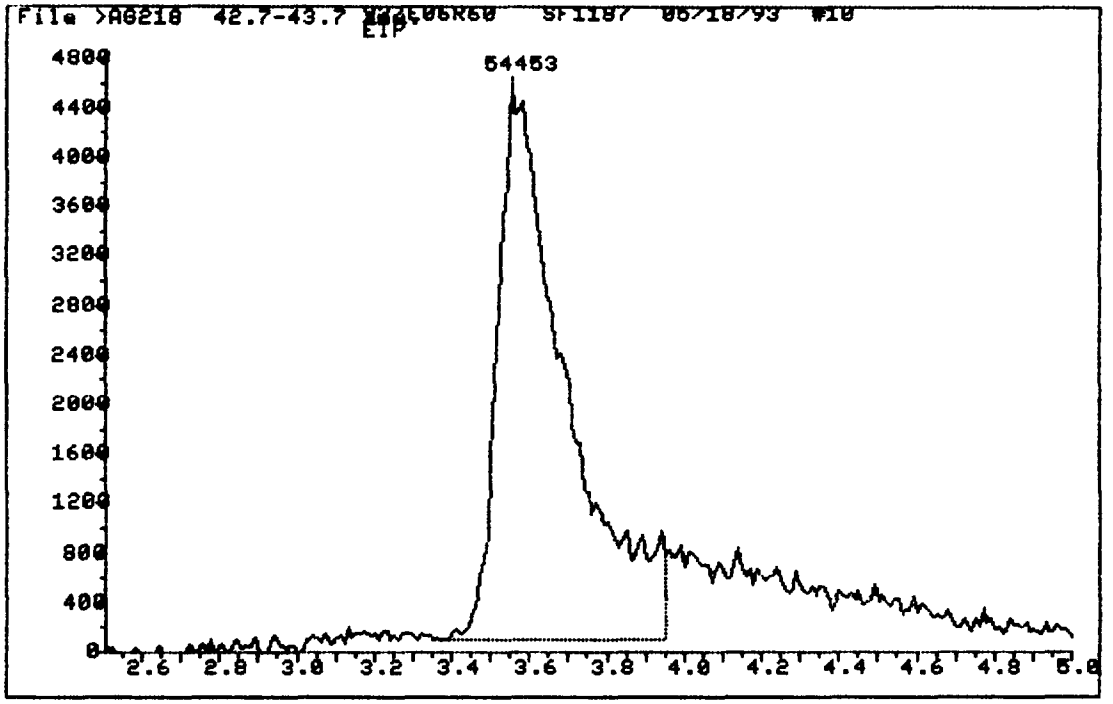
TIC #1 coeluted with CO_2.

See attached page ag 6/16/

Sample file: >AG218 Spectrum #: 185
Search speed: 1 Tilting option: N No. of ion ranges searched: 33

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IV
1.	55*	300629	592	"BIGDB	45	30	1	0	68	21	22		27	
2.	48*	108098	514	"BIGDB	37	32	1	0	95	21	17		19	
3.	48*	123820	517	"BIGDB	36	31	1	0	96	21	17		19	
4.	46*	5329793	511	"BIGDB	32	38	1	0	95	21	17		17	
5.	46*	72695	599	"BIGDB	31	70	1	0	79	21	17		17	
6.	45*	56817926	538	"BIGDB	29	50	1	0	96	21	17		16	

TIC #1



FMGR : INT,,,-2

>AG218 93ZE06R60 SF1187 05/18/93 #10
42.71 43.7 EIP
Upslope: .2000 Area Reject: 5.00 % Max Peaks: 1 Bunch: 1 Valley >100 %
Dnslope: 0.0000 Results File VDIR75 Sorted by Area/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	3.55	169	182	183	4492	15650	14360	100.00	100.000

Sum of corrected areas: 14360. See below

FMGR : INT,,,,-2

>AG218 93ZE06R60 SF1187 05/18/93 #10
42.71 43.7 EIP
Upslope: .2000 Area Reject: 5.00 % Max Peaks: 1 Bunch: -2 Valley >100 %
Dnslope: 0.0000 Results File VDIR75 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	3.55	166	182	222	4540	58006	54453	100.00	100.000

Sum of corrected areas: 54453.

Estimated conc of TIC #1 $= \frac{\text{Area of m/z 43 of TIC \#1}}{\text{Area of quant ion of IS 1}} \times \frac{\text{Conc IS 1}}{1} = \frac{54453}{57550} \times 10 = 9.46$ µg/L

Ag 6/16/93

QUANT REPORT

Operator ID: TONY
Output File: ^AG219::D2
Data File: >AG219::D3
Name: 93ZE06R61 SF1187
Misc: 05/18/93 #11

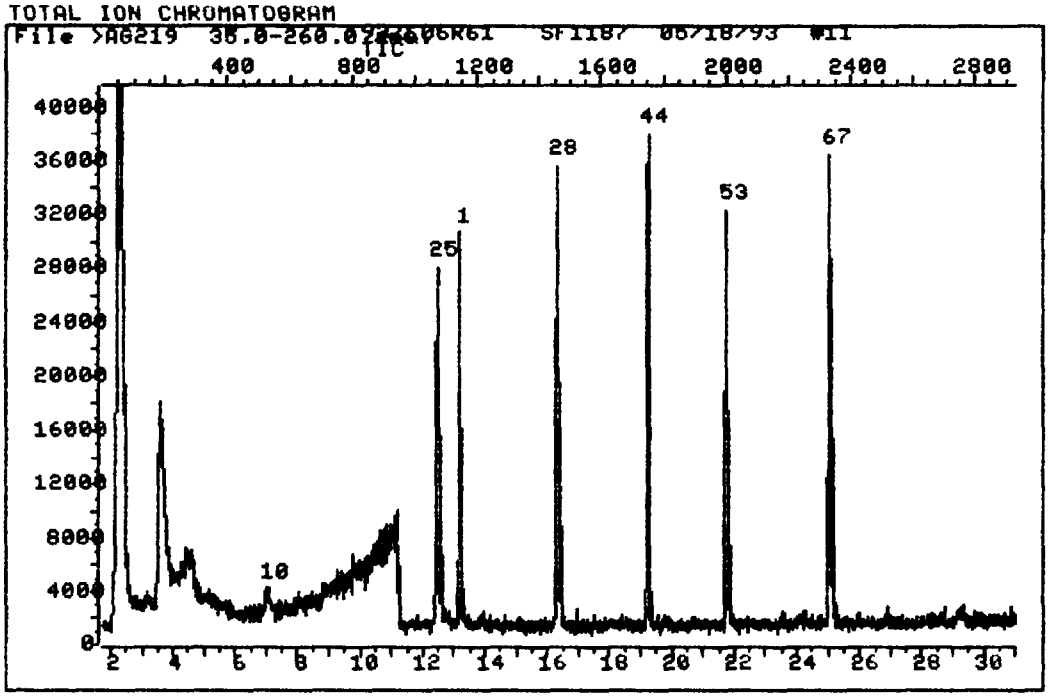
Quant Rev: 7
Quant Time: 930615 16:13
Injected at: 930518 21:10
Dilution Factor: 1.00000
Instrument ID: HP MS#4

ID File: IDAG05::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930518 10:10
Last Qcal Time: 930518 14:24

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.15	96.0	62787	10.00	ug/L	95
10)	Acetone	7.02	43.0	16456M	29.09	ug/L	95
25)	BENZENE-D6	12.44	84.0	60159	10.12	ug/L	98
28)	*TOLUENE-D8	16.28	98.0	59278	10.00	ug/L	96
44)	*CHLOROBENZENE-D5	19.19	117.0	46271	10.00	ug/L	97
53)	p-BROMOFLUOROBENZENE	21.73	174.0	20177	8.97	ug/L	94
67)	1,2-DICHLOROBENZENE-D4	25.04	152.0	21773	9.70	ug/L	94

* Compound is ISTD

TOTAL ION CHROMATOGRAM

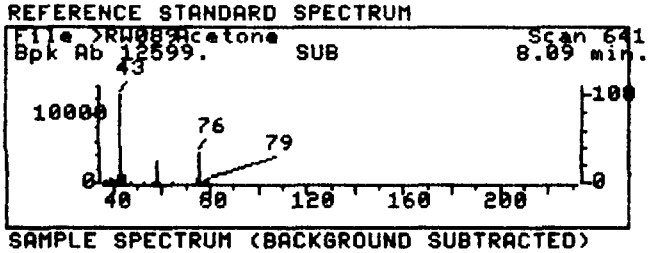


Data File: >AG219::D3 Quant Output File: ^AG219::D2
Name: 93ZE06R61 SF1187 Instrument ID: HP MS#4
Misc: 05/18/93 #11

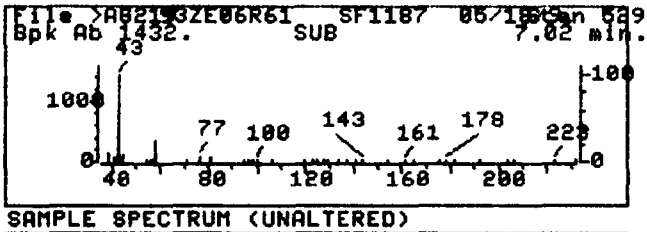
Id File: IDAG05::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930518 10:10 Last Qcal Time: 930518 14:24

Operator ID: TONY
Quant Time : 930615 16:13
Injected at: 930518 21:10

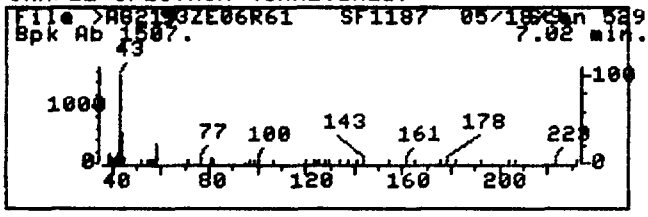
REFERENCE STANDARD SPECTRUM

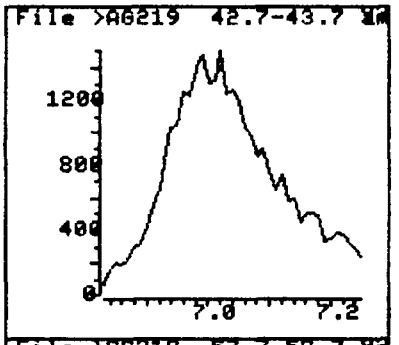


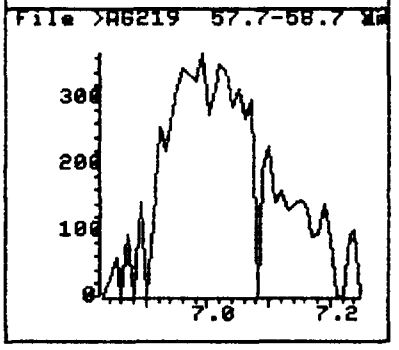
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







Data File: >AG219::D3
Name: 93ZE06R61 SF1187
Misc: 05/18/93 #11
Quant Time: 930615 16:13
Injected at: 930518 21:10
Last Qcal Time: 930518 14:24

Quant Output File: ^AG219::D2
Instrument ID: HP MS#4

Quant ID File: IDAG05::QT
Last Calibration: 930518 10:10

Compound No : 10
Compound Name : Acetone
Scan Number : 529
Retention Time: 7.02 min.
Quant Ion : 43.0
Area : 16456M
Concentration : 29.09 ug/L
q-value : 95

MS data file header from : >AG219::D3

Sample: 93ZE06R61 SF1187 Operator: TUNY REG. GRP. 5/18/93 21:10
Misc : 05/18/93 #11
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 0 Equip ID: HP MS#4
Method file: VOA#1 Tuning file: MTMSD1 No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	10.	160.	0.	0.	0.
Chromatographic times, min. :	5.0	5.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	6.0	0.0	0.0	.1	0.0

>AG219 93ZE06R61 SF1187 05/18/93 #11
35.01 260.0 CLP TIC
Upslope: .2000 Area Reject: 14568. Max Peaks: 1 Bunch: -1 Valley >100 %
Onslope: 0.0000 Results File IAG219 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	3.56	169	183	208	15500	240756	175978	100.00	100.000

Sum of corrected areas: 175978.

Summary of Unknowns PBM Library Search and Quantitation

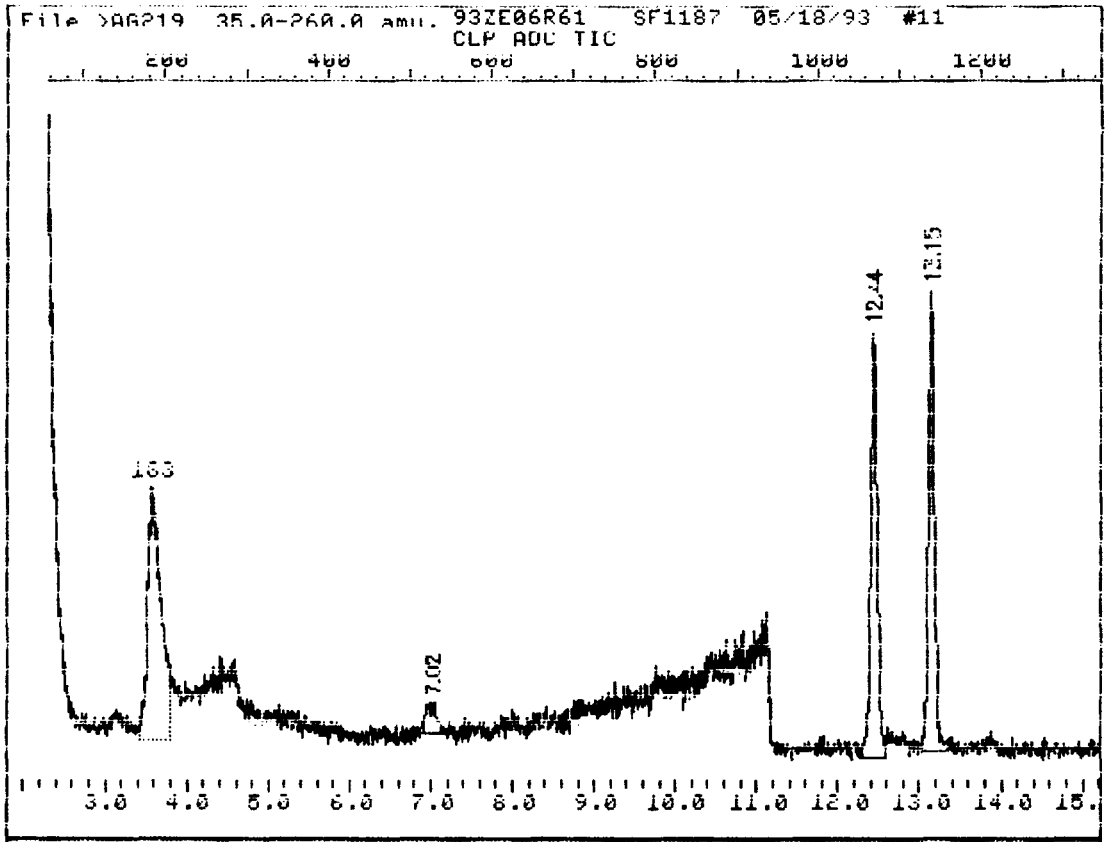
Standard	Concentration	Area	Retention Time	Unknown Window
1	10.0	145683.	13.15	2.30 - 14.72
2	10.0	161699.	16.28	14.72 - 17.74
3	10.0	162305.	19.19	17.74 - 31.01

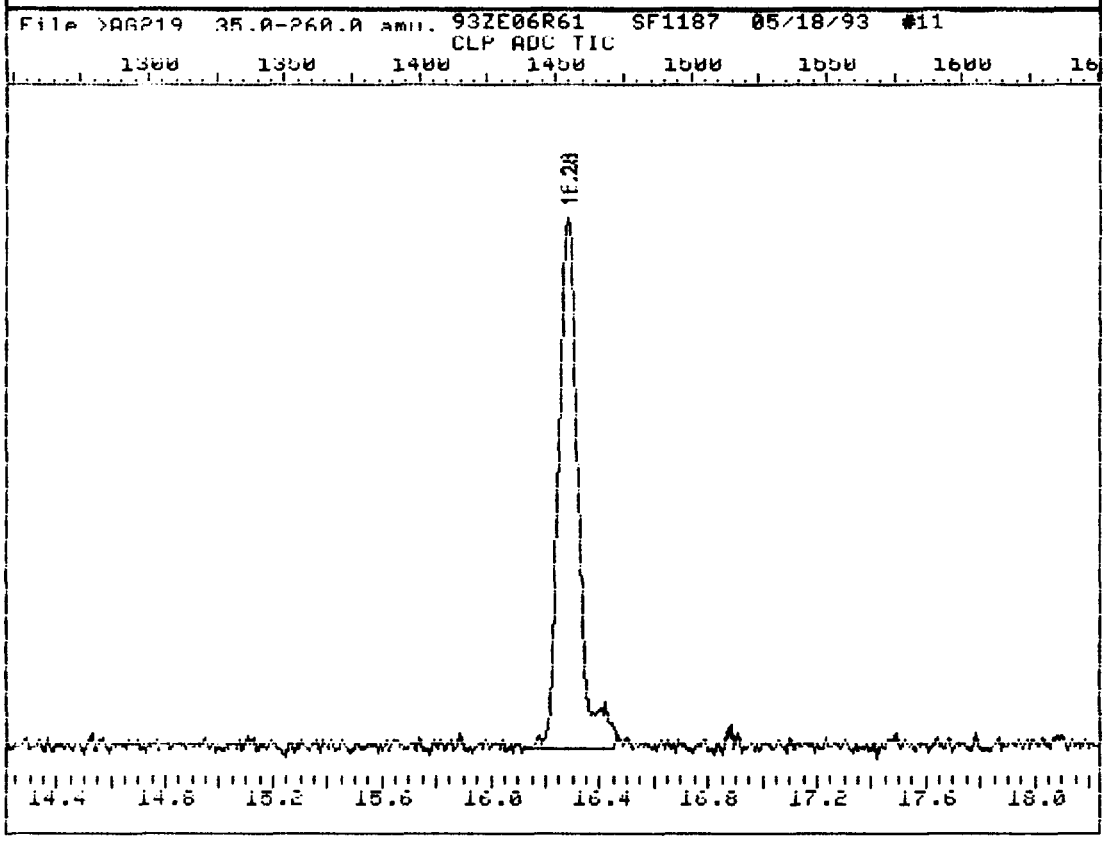
Dilution Factor = 1.00 This sample was 5.00000 g or mL

Correction Factor = 1.00

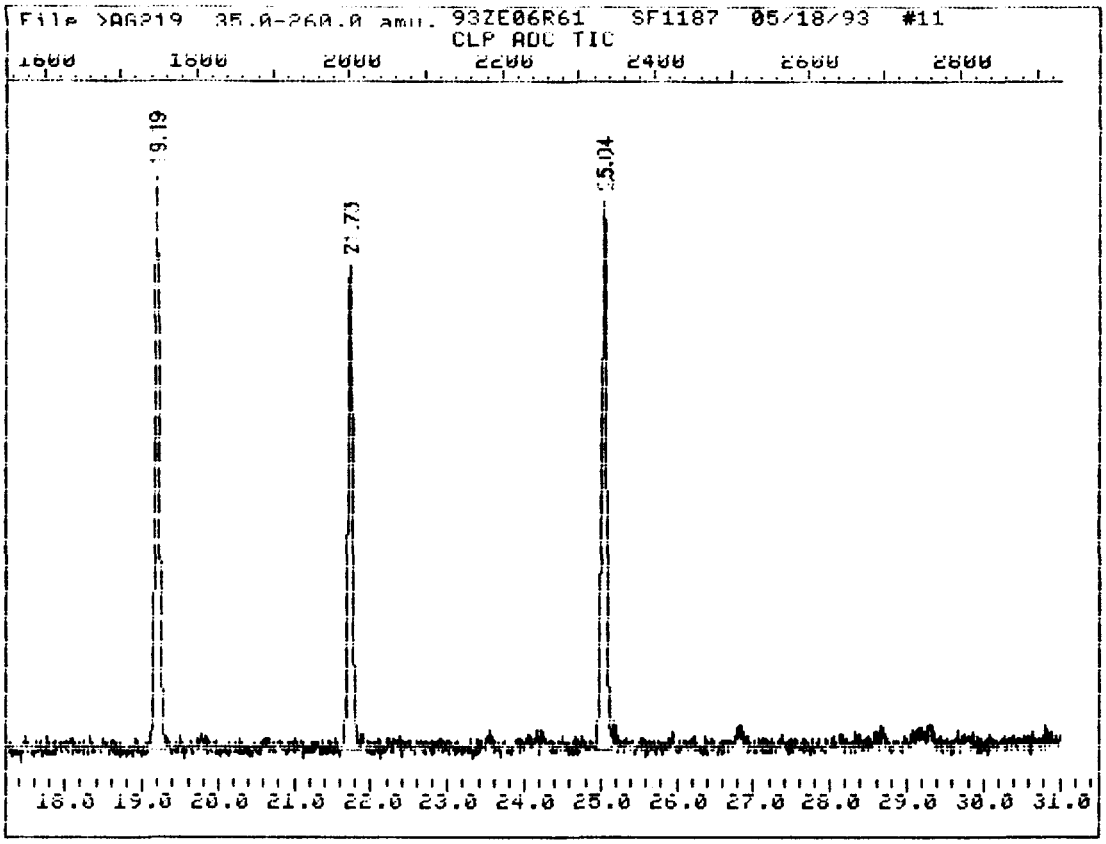
$$\text{Unknown Concentration} = \frac{\text{Conc Int Std} * \text{Area Unknown}}{\text{Area Int Std}} * \text{Correction Factor}$$

11:40 AM WED., 16 JUNE, 1993

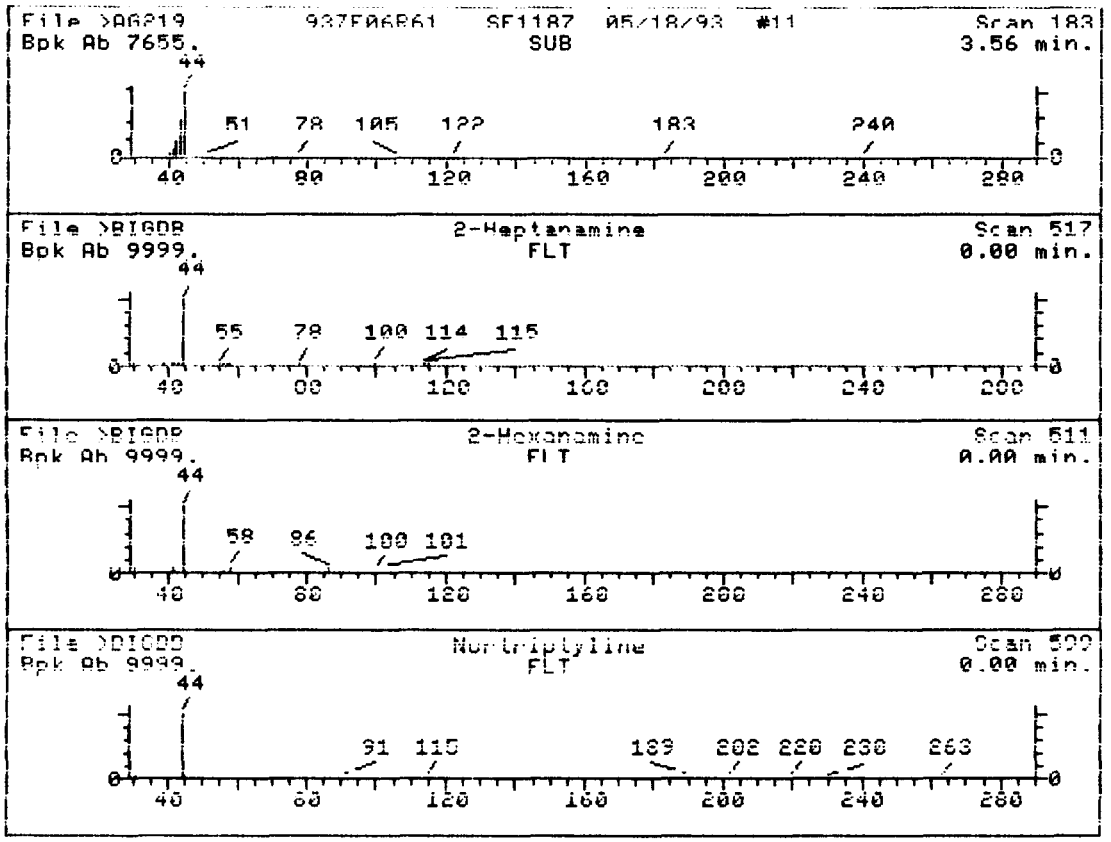




Instrument ID: HP MS# Analyzed on: 5/18/93 21:10



Instrument ID: HP MS# Analyzed on: 5/18/93 21:10



Instrument ID: HP MS# Analyzed on: 5/18/93 21:10
Result 1 in PBM results file: LAG219
Retention Time: 3.56 Area: 175978 Tentative Conc: 12~~0~~
The unknown area is 120.80% of the nearest internal standard

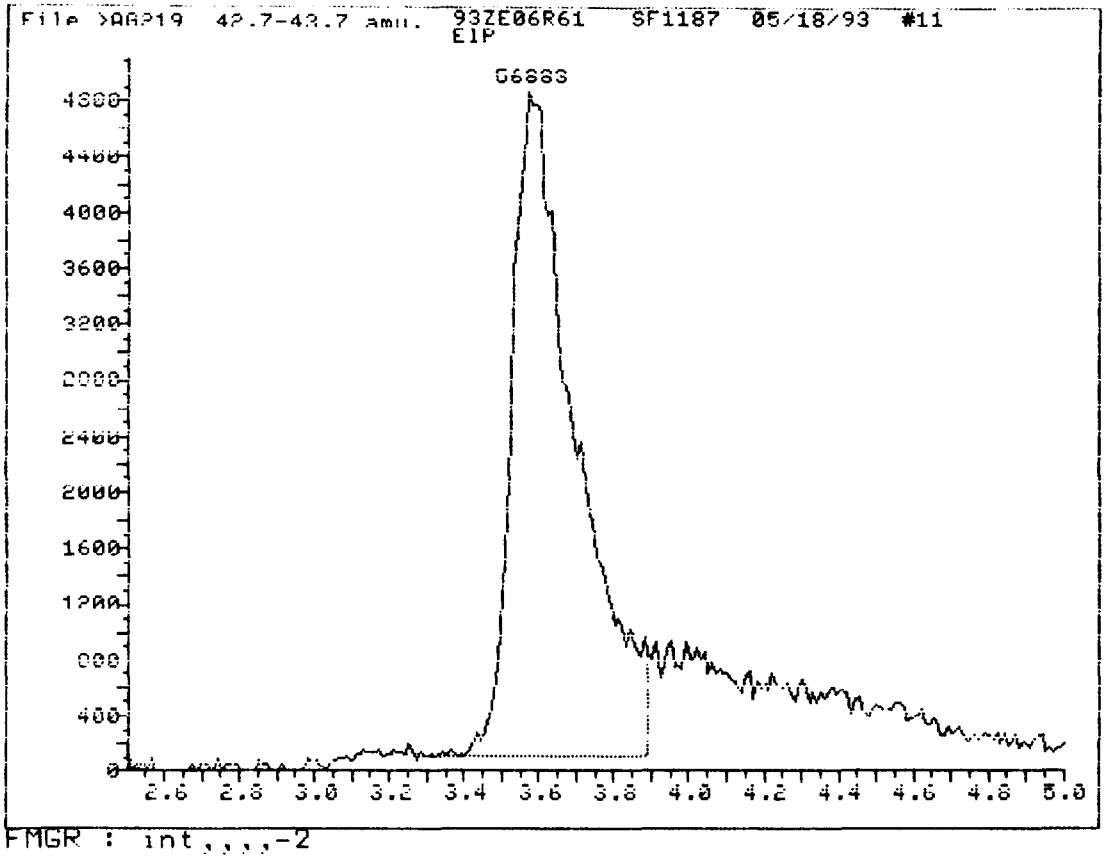
1.	2-Heptanamine	115	C7H17N
2.	2-Hexanamine	101	C6H15N
3.	Nortriptyline	263	C19H21N
4.	2-Hexanamine, 4-methyl-	115	C7H17N
5.	Benzeneethanamine, N-methyl-	135	C9H13N
6.	1,2-Propanediamine	74	C3H10N2

Unknown

TIC #1 coeluted with CO_2 - Used mass chromatogram of m/z 43 for quantitation

Sample file: >AG219 Spectrum #: 183 Ag 6/16/93
Search speed: 1 Tilting option: N No. of ion ranges searched: 33

	Prob.	CAS #	CON #	ROOT	K	DK	#+LG	TILT	%	CON	C	I	R	IV
1.	51*	123820	517	"BIGDB	40	27	1	0	80	21	22		23	
2.	44*	5329793	511	"BIGDB	28	42	1	0	70	21	17		15	
3.	44*	72695	599	"BIGDB	27	74	1	0	100	21	17		15	
4.	43*	105419	516	"BIGDB	23	45	1	0	83	21	17		14	
5.	42*	589082	524	"BIGDB	23	43	2	0	100	21	17		13	
6.	42*	78900	570	"BIGDB	22	46	2	0	100	21	17		13	



>AG219 93ZE06R61 SF1187 05/18/93 #11
42.71 43.7 EIP
Upslope: .2000 Area Reject: 5.00 % Max Peaks: 1 Bunch: -2 Valley >100 %
Dnslope: 0.0000 Results File VDIR70 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	3.57	156	184	216	4756	60942	56883	100.00	100.000

Sum of corrected areas: 56883.

Estimated concentration of TIC #1

$$= \frac{\text{Area m/z 43 TIC\#1}}{\text{Area quant. ion IS1}} \times \frac{\text{Conc. IS1}}{1} = \frac{\cancel{6278}}{\cancel{5883}} \; \frac{56883}{62787} \times \frac{10}{1} = 9.06$$

→ report 9J µg/L

Rg 6/16/93

QUANT REPORT

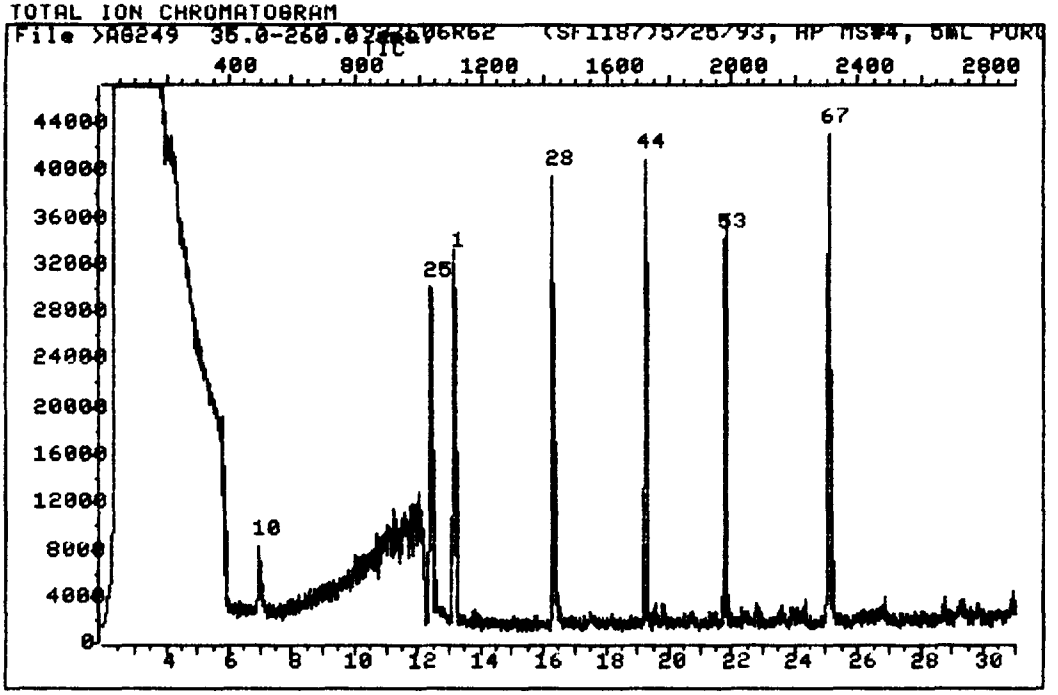
Operator ID: TONY
Quant Rev: 7
Quant Time: 930525 20:15
Output File: ^AG249::D5
Injected at: 930525 19:42
Data File: >AG249::D4
Dilution Factor: 1.00000
Name: 93ZE06R62 (SF1187)
Instrument ID: HP MS#4
Misc: 5/25/93, HP MS#4, 5mL PURGE

ID File: IDAG08::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54
Last Qcal Time: <none>

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.13	96.0	65504	10.00	ug/L	98
10)	Acetone	6.96	43.0	31478	88.24	ug/L	99
25)	BENZENE-D6	12.42	84.0	62778	10.08	ug/L	98
28)	*TOLUENE-D8	16.29	98.0	60468	10.00	ug/L	96
44)	*CHLOROBENZENE-D5	19.22	117.0	49885	10.00	ug/L	97
53)	p-BROMOFLUOROBENZENE	21.75	174.0	22039	9.55	ug/L	97
67)	1,2-DICHLOROBENZENE-D4	25.06	152.0	23979	10.03	ug/L	95

* Compound is ISTD

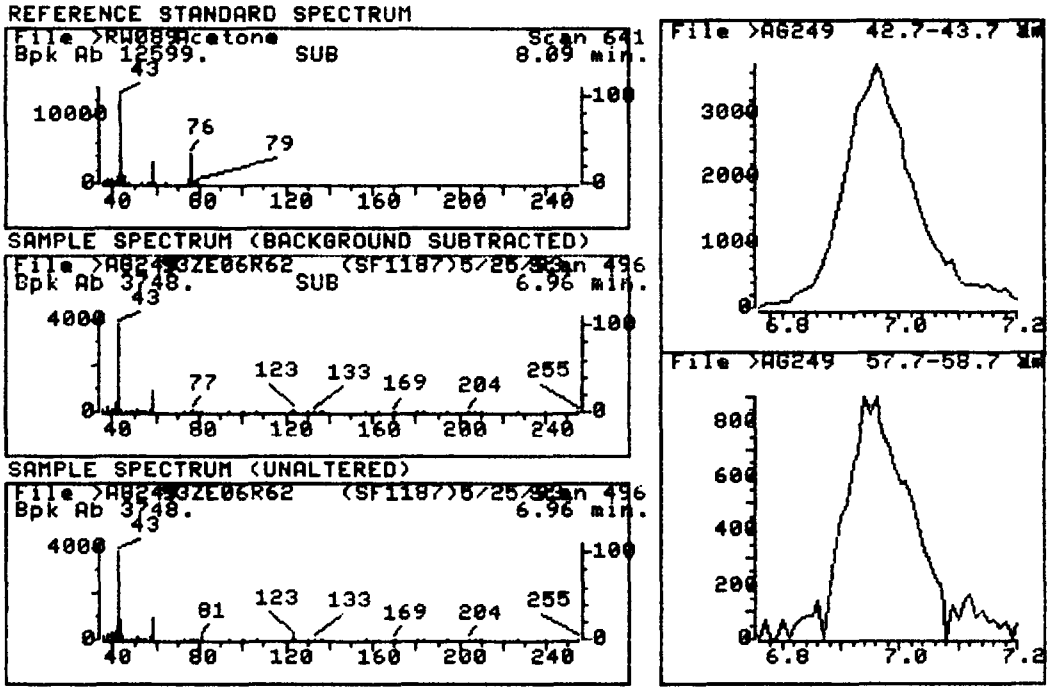
TOTAL ION CHROMATOGRAM



Data File: >AG249::D4 Quant Output File: ^AG249::D5
Name: 93ZE06R62 (SF1187) Instrument ID: HP MS#4
Misc: 5/25/93, HP MS#4, 5mL PURGE

Id File: IDAG08::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54 Last Qcal Time: <none>

Operator ID: TONY
Quant Time : 930525 20:15
Injected at: 930525 19:42



Data File: >AG249::D4 Quant Output File: ^AG249::D5
Name: 93ZE06R62 (SF1187) Instrument ID: HP MS#4
Misc: 5/25/93, HP MS#4, 5mL PURGE
Quant Time: 930525 20:15 Quant ID File: IDAGU8::QT
Injected at: 930525 19:42 Last Calibration: 930525 17:54
Last Qcal Time: <none>

Compound No : 10
Compound Name : Acetone
Scan Number : 496
Retention Time: 6.96 min.
Quant Ion : 43.0
Area : 31478
Concentration : 88.24 ug/L
q-value : 99

QUANT REPORT

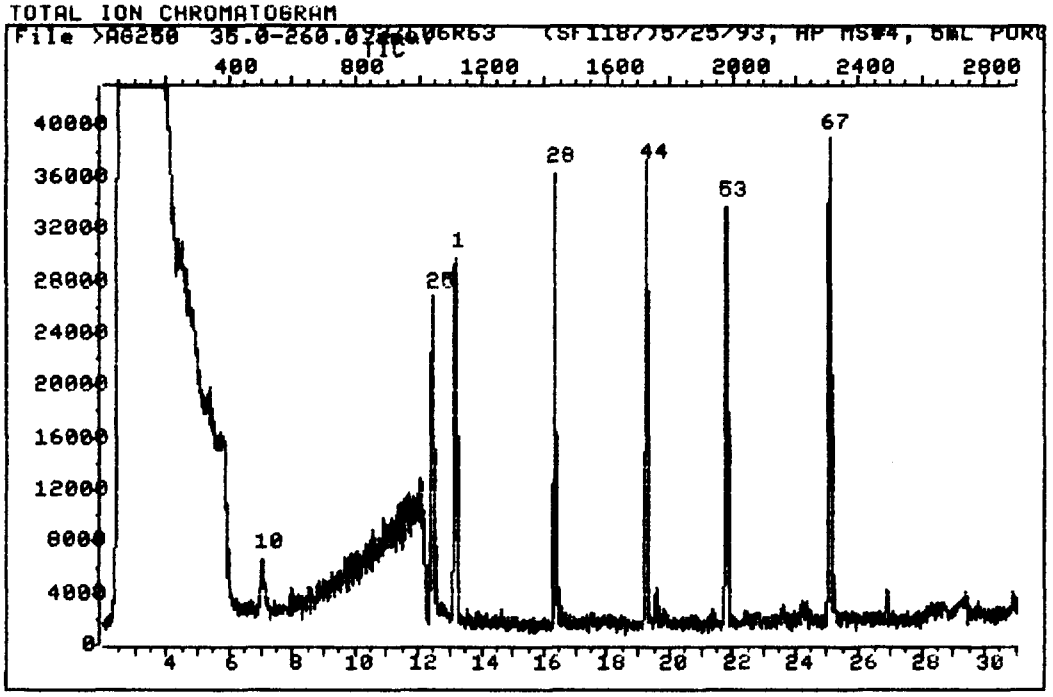
Operator ID: TONY
Quant Rev: 7
Quant Time: 930525 20:55
Output File: ^AG250::D5
Injected at: 930525 20:22
Data File: >AG250::D4
Dilution Factor: 1.00000
Name: 93ZE06R63 (SF1187)
Instrument ID: HP MS#4
Misc: 5/25/93, HP MS#4, 5mL PURGE

ID File: IDAG08::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54
Last Qcal Time: <none>

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.15	96.0	59843	10.00	ug/L	98
10)	Acetone	7.05	43.0	21213	65.09	ug/L	91
25)	BENZENE-D6	12.45	84.0	57492	10.10	ug/L	99
28)	*TOLUENE-D8	16.30	98.0	56995	10.00	ug/L	98
44)	*CHLOROBENZENE-D5	19.23	117.0	45032	10.00	ug/L	96
53)	p-BROMOFLUOROBENZENE	21.76	174.0	20689	9.93	ug/L	99
67)	1,2-DICHLOROBENZENE-D4	25.07	152.0	22093	10.24	ug/L	90

* Compound is ISTD

TOTAL ION CHROMATOGRAM

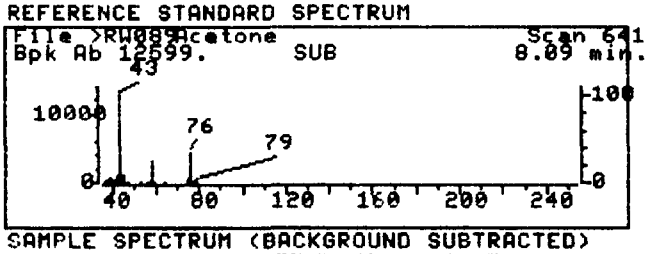


Data File: >AG250::D4 Quant Output File: ^AG250::D5
Name: 93ZE06R63 (SF1187) Instrument ID: HP MS#4
Misc: 5/25/93, HP MS#4, 5mL PURGE

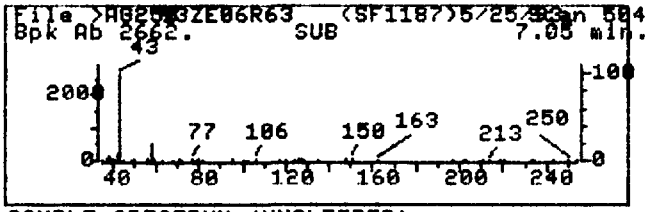
Id File: IDAG08::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54 Last Qcal Time: <none>

Operator ID: TONY
Quant Time : 930525 20:55
Injected at: 930525 20:22

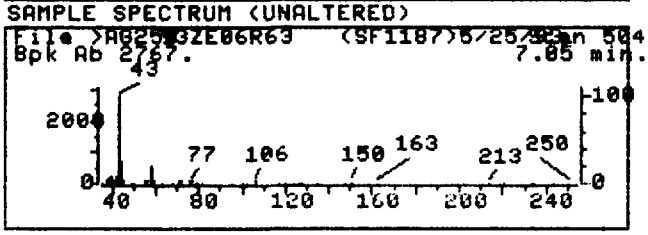
REFERENCE STANDARD SPECTRUM

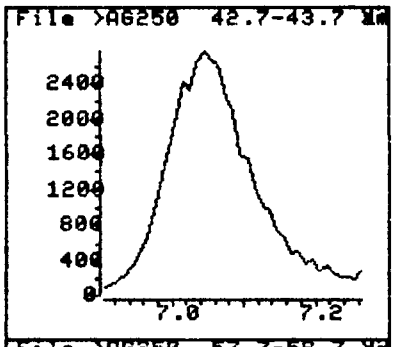


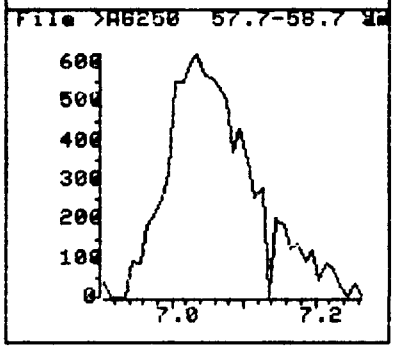
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







Data File: >AG250::D4 Quant Output File: ^AG250::D5
Name: 93ZE06R63 (SF1187) Instrument ID: HP MS#4
Misc: 5/25/93, HP MS#4, 5mL PURGE
Quant Time: 930525 20:55 Quant ID File: IDAG08::QT
Injected at: 930525 20:22 Last Calibration: 930525 17:54
Last Qcal Time: <none>

Compound No : 10
Compound Name : Acetone
Scan Number : 504
Retention Time: 7.05 min.
Quant Ion : 43.0
Area : 21213
Concentration : 65.09 ug/L
q-value : 91

QUANT REPORT

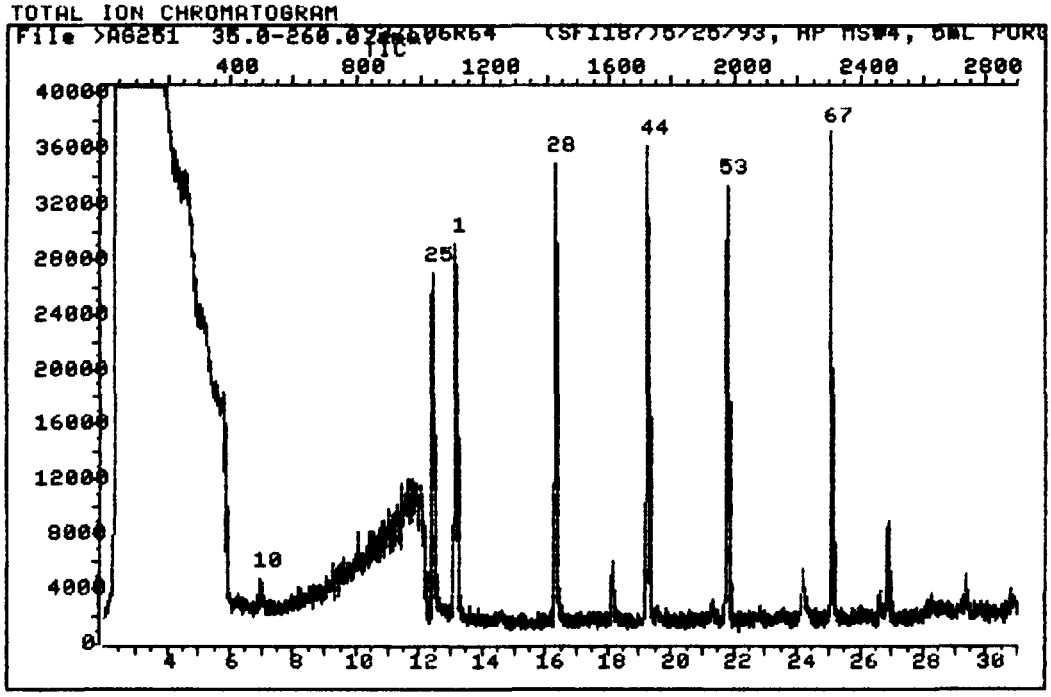
Operator ID: TONY
Quant Rev: 7
Quant Time: 930525 21:35
Output File: ^AG251::D5
Injected at: 930525 21:02
Data File: >AG251::D4
Dilution Factor: 1.00000
Name: 93ZE06R64 (SF1187)
Instrument ID: HP MS#4
Misc: 5/25/93, HP MS#4, 5mL PURGE

ID File: IDAG08::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54
Last Qcal Time: <none>

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.13	96.0	58038	10.00	ug/L	95
10)	Acetone	6.96	43.0	11751	37.18	ug/L	87
25)	BENZENE-D6	12.42	84.0	56148	10.17	ug/L	97
28)	*TOLUENE-D8	16.29	98.0	55035	10.00	ug/L	98
44)	*CHLOROBENZENE-D5	19.22	117.0	43379	10.00	ug/L	95
53)	p-BROMOFLUOROBENZENE	21.76	174.0	19298	9.62	ug/L	95
67)	1,2-DICHLOROBENZENE-D4	25.07	152.0	21405	10.30	ug/L	95

* Compound is ISTD

TOTAL ION CHROMATOGRAM

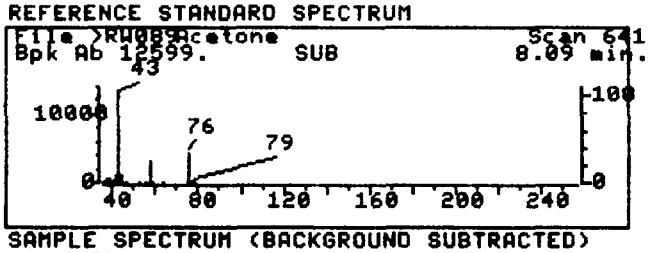


Data File: >AG251::D4 Quant Output File: ^AG251::D5
Name: 93ZE06R64 (SF1187) Instrument ID: HP MS#4
Misc: 5/25/93, HP MS#4, 5mL PURGE

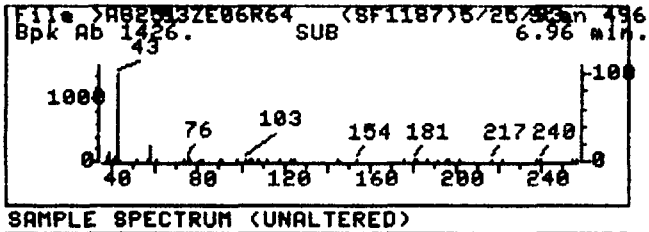
Id File: IDAG08::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54 Last Qcal Time: <none>

Operator ID: TONY
Quant Time : 930525 21:35
Injected at: 930525 21:02

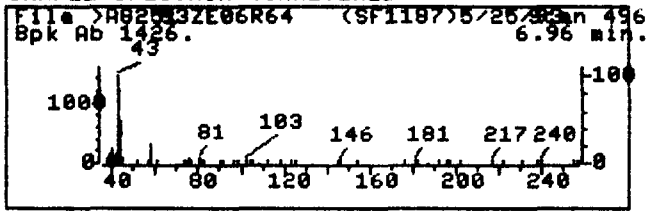
REFERENCE STANDARD SPECTRUM

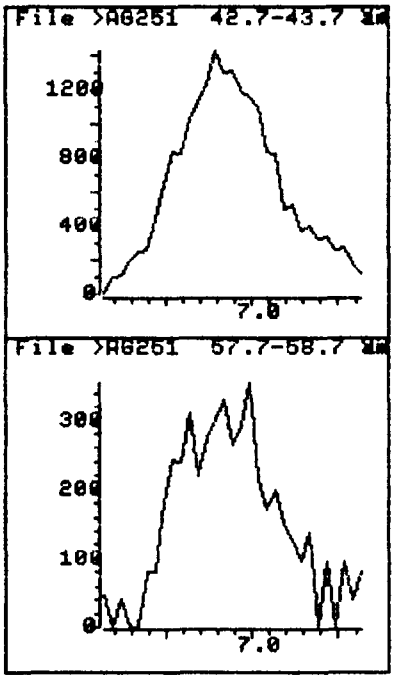


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)





Data File: >AG251::D4 Quant Output File: ^AG251::D5
Name: 93ZE06R64 (SF1187) Instrument ID: HP MS#4
Misc: 5/25/93, HP MS#4, 5mL PURGE
Quant Time: 930525 21:35 Quant ID File: IDAG08::QT
Injected at: 930525 21:02 Last Calibration: 930525 17:54
Last Qcal Time: <none>

Compound No : 10
Compound Name : Acetone
Scan Number : 496
Retention Time: 6.96 min.
Quant Ion : 43.0
Area : 11751
Concentration : 37.18 ug/L
q-value : 87

MS data file header from : >AG251::D4

Sample: 932E06R64 (SF1187) Operator: TUNY REG. GRP. 5/25/93 21:02
Misc : 5/25/93, HP MS#4, 5mL PURGE
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 0 Equip ID: HP MS#4
Method file: VUA#1 Tuning file: MTMSD1 No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	10.	160.	0.	0.	0.
Chromatographic times, min. :	5.0	5.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	6.0	0.0	0.0	.1	0.0

>AG251 932E06R64 (SF1187)5/25/93, HP MS#4, 5mL PURGE
35.01 260.0 CLP TIC
Upslope: .2000 Area Reject: 14014. Max Peaks: 4 Bunch: -1 Valley >100 %
Dnslope: 0.0000 Results File IAG251 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	12.03	993	1000	1017	9655	121903	94677	100.00	55.312
2	18.13	1603	1611	1621	4695	37177	22736	24.01	13.283
3	24.19	2207	2218	2225	3783	37210	18139	19.16	10.597
4	26.85	2476	2485	2497	7418	54378	35618	37.62	20.809

Sum of corrected areas: 171170.

No TICs found

Summary of Unknowns PBM Library Search and Quantitation

ag 6/16/93

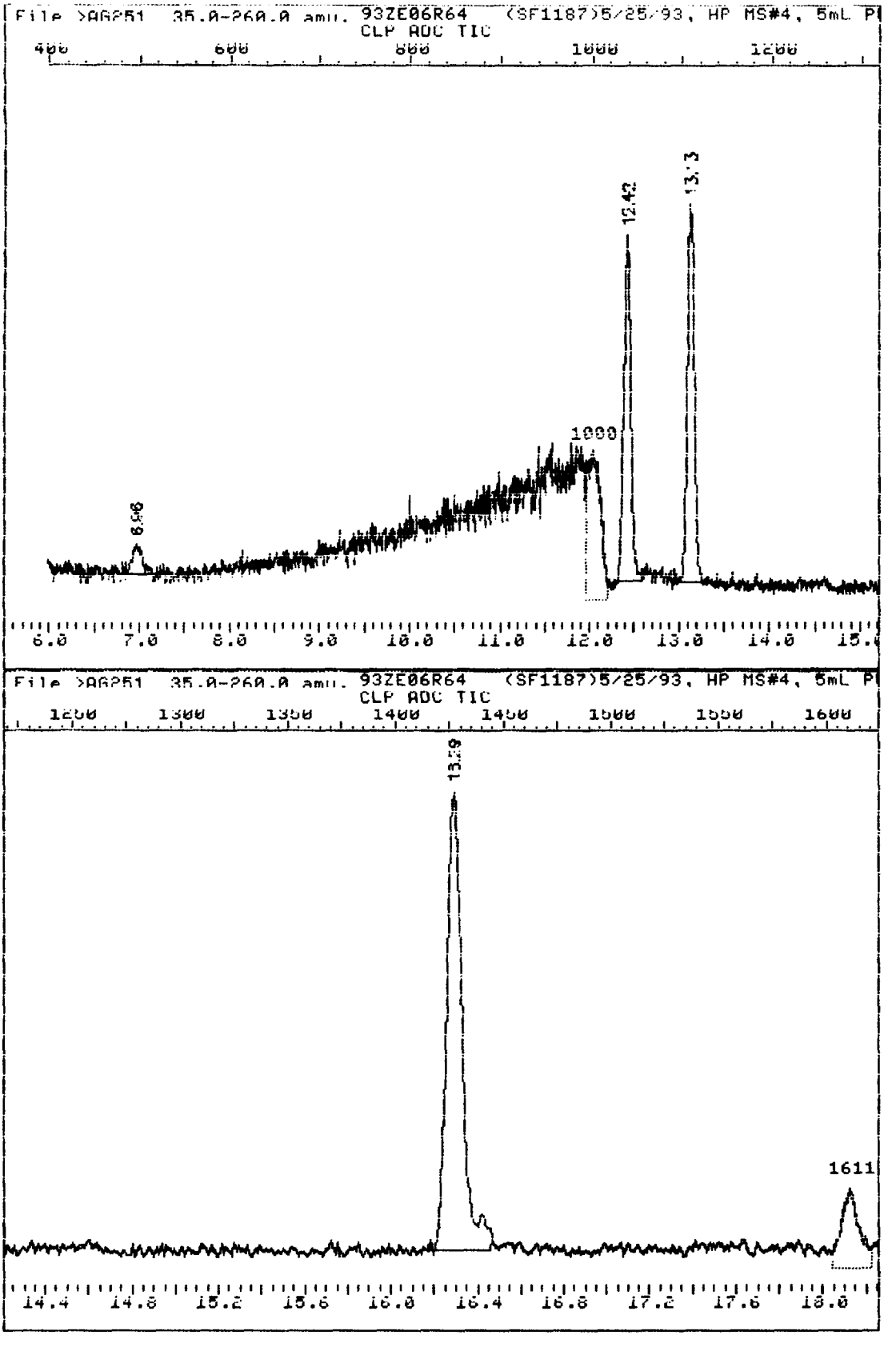
Standard	Concentration	Area	Retention Time	Unknown Window
1	10.0	140142.	13.13	6.00 - 14.71
2	10.0	159524.	16.29	14.71 - 17.76
3	10.0	153361.	19.22	17.76 - 31.01

Dilution Factor = 1.00 This sample was 5.00000 g or mL

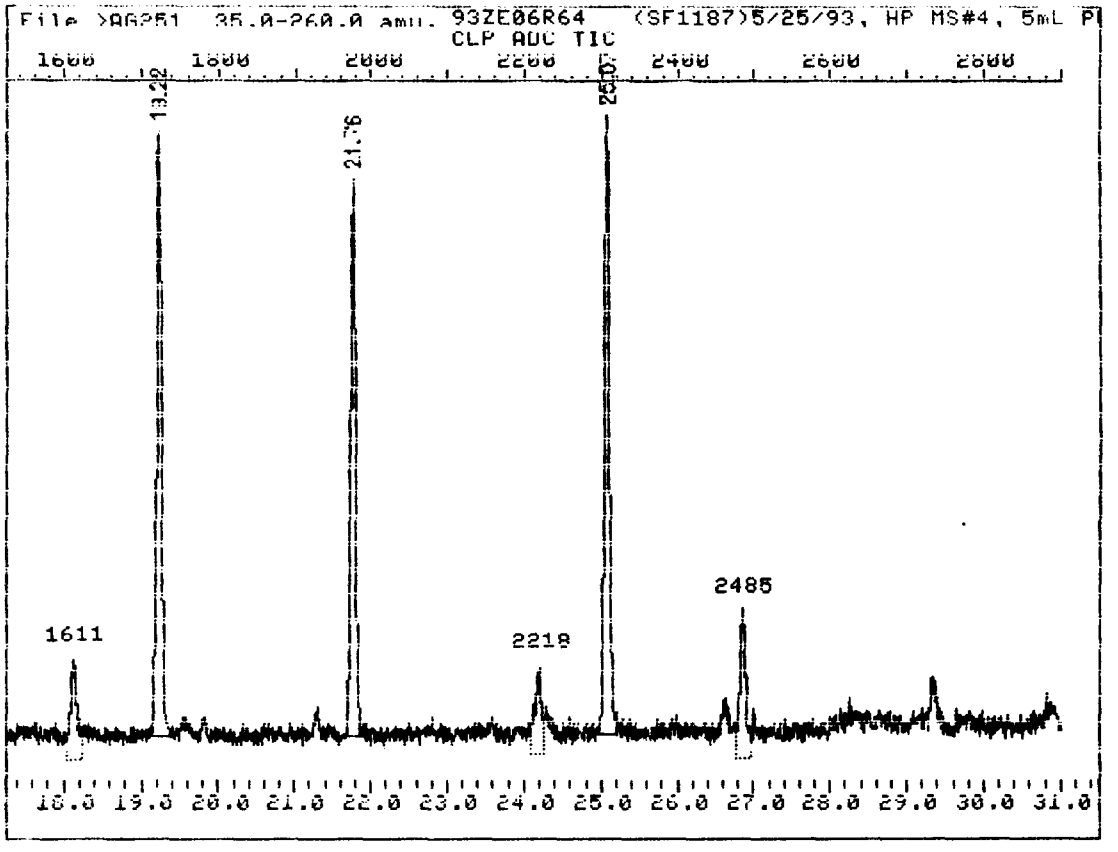
Correction Factor = 1.00

$$\text{Unknown Concentration} = \frac{\text{Conc Int Std} * \text{Area Unknown}}{\text{Area Int Std}} * \text{Correction Factor}$$

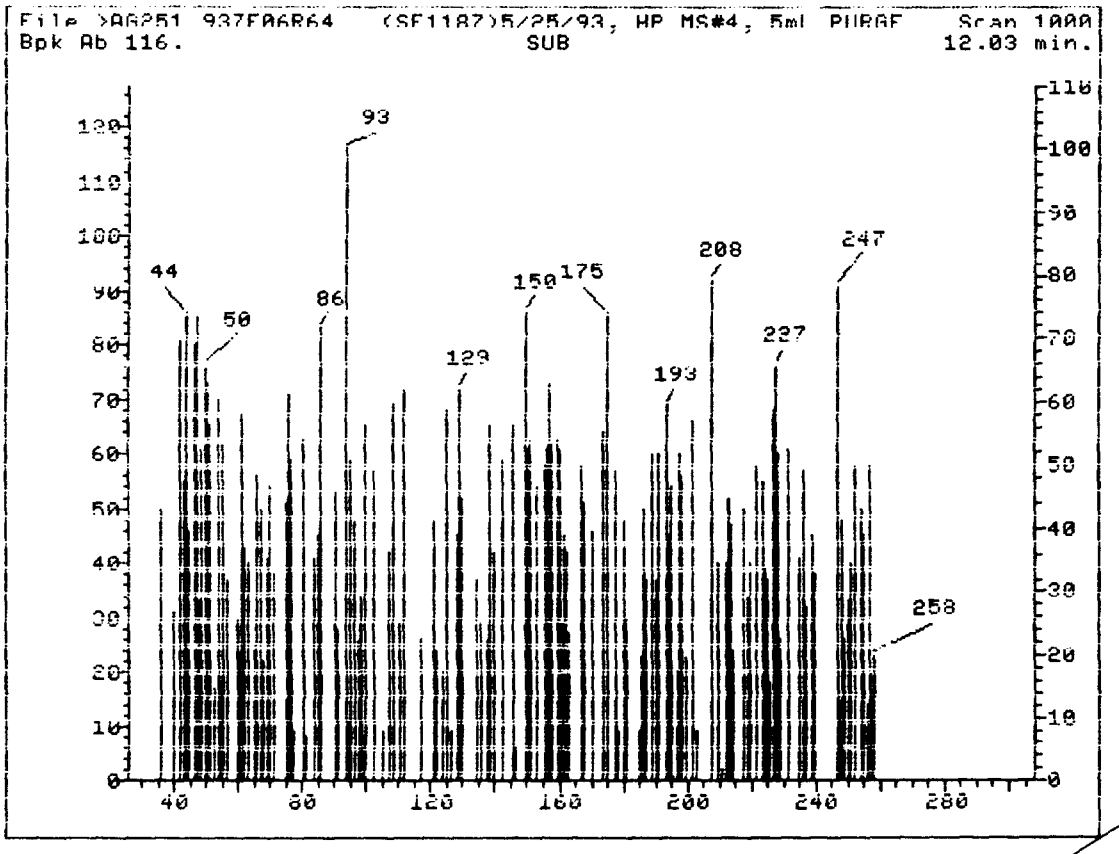
2:33 PM WED., 16 JUNE, 1993



Instrument ID: HP MS# Analyzed on: 5/25/93 21:02



Instrument ID: HP MS# Analyzed on: 5/25/93 21:02

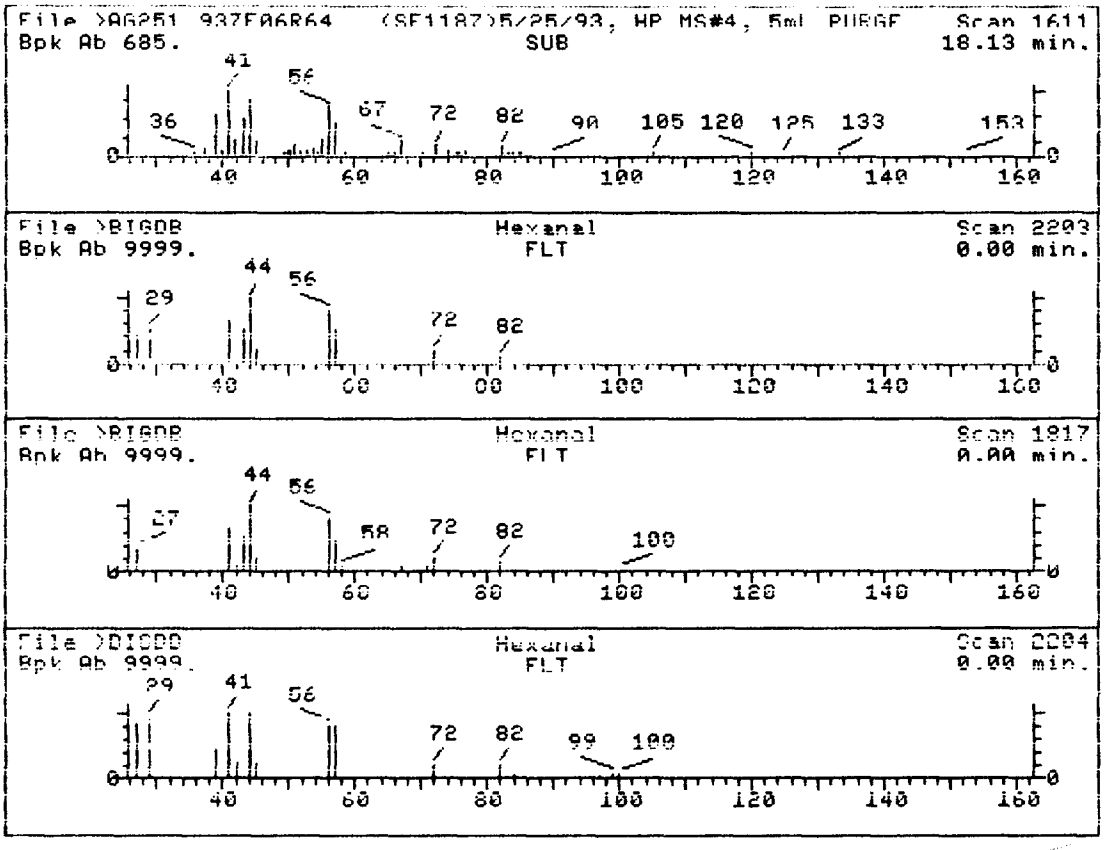


Instrument ID: HP MS# Analyzed on: 5/25/93 21:02
Result 1 in PBM results file: LAG251
Retention Time: 12.03 Area: 94677 Tentative Conc: 7.00
The unknown area is 67.56% of the nearest internal standard

Sample file: >AG251 Spectrum #: 1000

No data base entries were retrieved.

Baseline drift
Not a TIC
ag 6/16/93



BQL

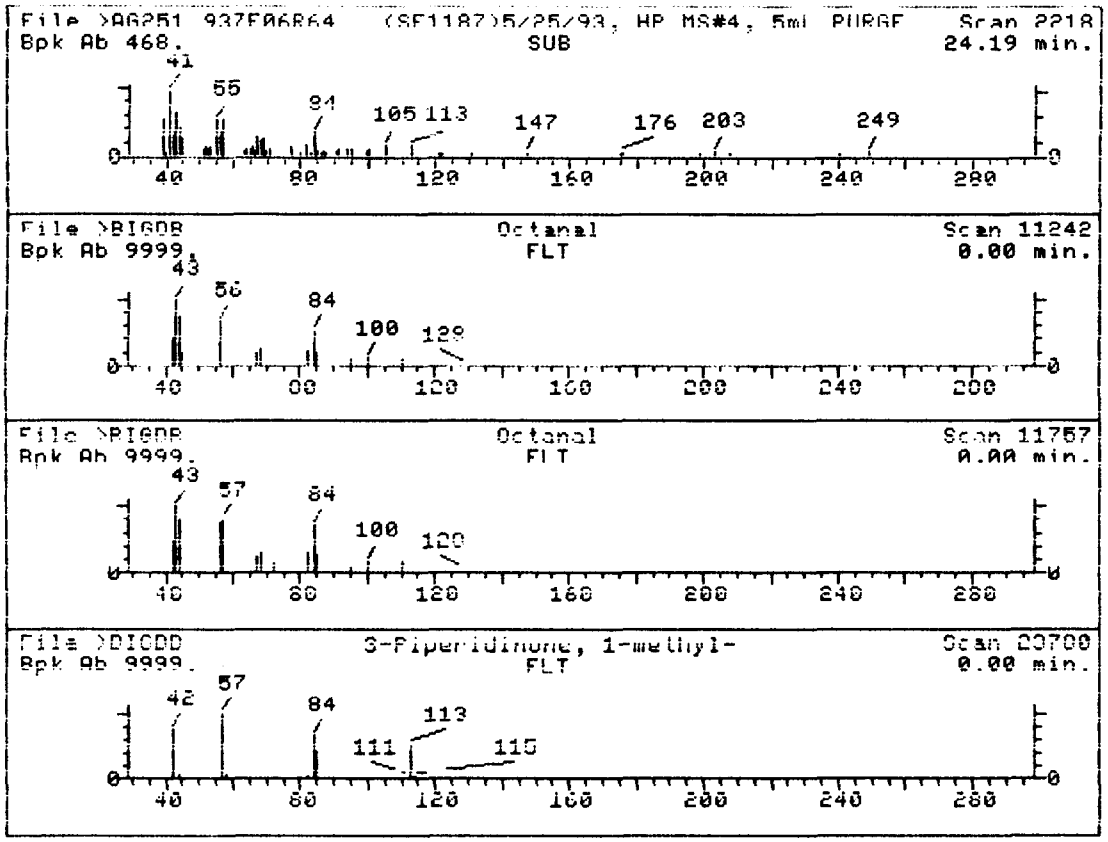
ag 6/16/93

Instrument ID: HP MS# Analyzed on: 5/25/93 21:02
Result 2 in PBM results file: LAG251
Retention Time: 18.13 Area: 22736 Tentative Conc: 1.00
The unknown area is 14.83% of the nearest internal standard

1. Hexanal 100 C6H12O
2. Hexanal 100 C6H12O
3. Hexanal 100 C6H12O
4. Hexanal 100 C6H12O
5. Hexanal 100 C6H12O
6. Hexanal 100 C6H12O

Sample file: >AG251 Spectrum #: 1611
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

	Prob.	CAS #	CON #	RUOT	K	DK	#FLG	TILT	%	CUN	C	I	R	IV
1.	63	66251	2203	"BIGDB	53	22	0	0	84	20	30			31
2.	52	66251	1817	"BIGDB	54	47	1	0	84	18	20			15
3.	48	66251	2204	"BIGDB	48	68	0	0	64	24	17			19
4.	45	66251	2201	"BIGDB	42	61	0	0	71	22	17			16
5.	45	66251	2199	"BIGDB	35	61	0	0	71	21	17			16
6.	42	66251	2202	"BIGDB	52	54	1	0	67	22	17			13



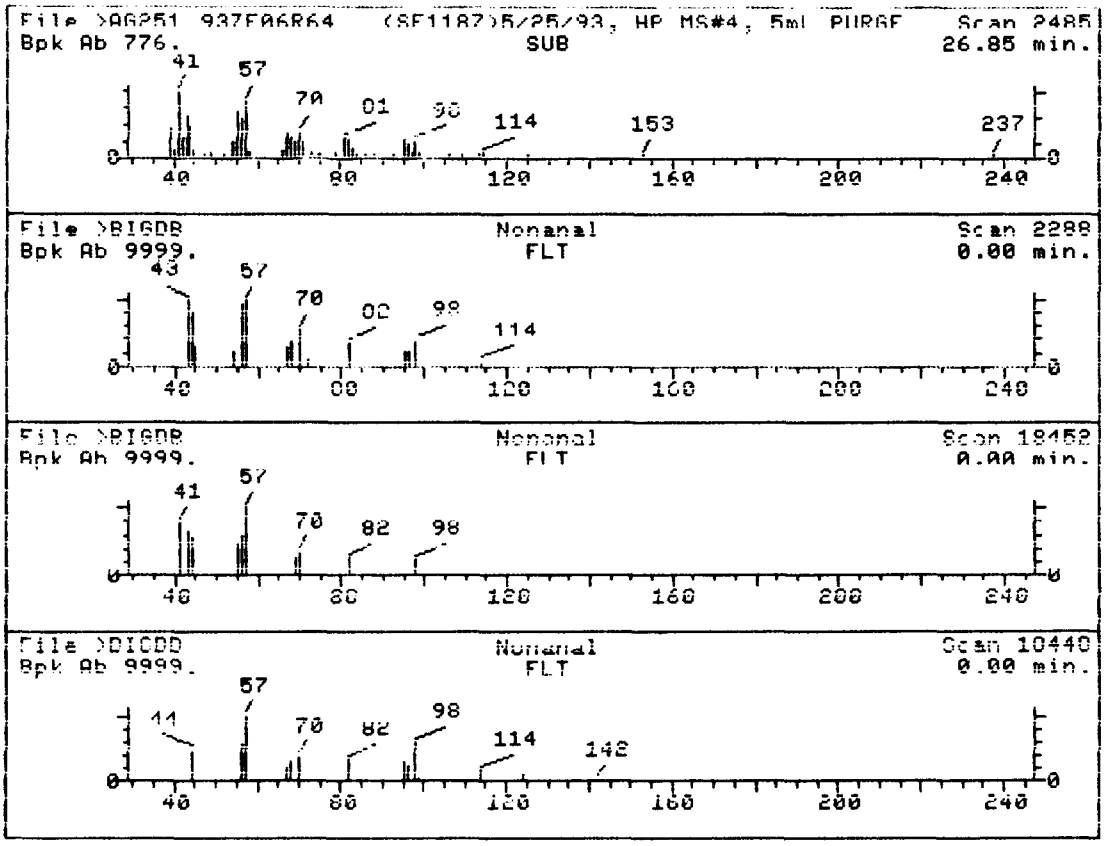
Instrument ID: HP MS# Analyzed on: 5/25/93 21:02
Result 3 in PBM results file: LAG251
Retention Time: 24.19 Area: 18139 Tentative Conc: 1.00
The unknown area is 11.83% of the nearest internal standard

BQL
ag 6/16/93

1. Octanal	128	C8H16O
2. Octanal	128	C8H16O
3. 3-Piperidinone, 1-methyl-	113	C6H11NO
4. 3-Piperidinol, 1-acetyl-6-propyl-, (3R-trans)-	185	C10H19NO2
5. Octanal	128	C8H16O
6. Decane, 5,6-dimethyl-	170	C12H26

Sample file: >AG251 Spectrum #: 2218
Search speed: 1 Tilting option: N No. of ion ranges searched: 44

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CUN	C	I	R	IV
1.	21*	124130	11242	"BIGDB	57	58	2	0	59	58		5		34
2.	15*	124130	11757	"BIGDB	52	69	3	0	53	58		3		15
3.	15*	5519506	23780	"BIGDB	23	55	1	0	34	58		3		14
4.	15*	54751927	11462	"BIGDB	27	102	3	0	68	58		3		13
5.	12*	124130	11754	"BIGDB	50	61	2	0	54	65		2		23
6.	11*	1636437	11415	"BIGDB	27	70	3	0	126	65		2		13



BQL
ag 6/16/93

Instrument ID: HP MS# Analyzed on: 5/25/93 21:02
Result 4 in PBM results file: LAG251
Retention Time: 26.85 Area: 35618 Tentative Conc: 2.00
The unknown area is 23.22% of the nearest internal standard

1.	Nonanal	142	C9H18O
2.	Nonanal	142	C9H18O
3.	Nonanal	142	C9H18O
4.	2-Propen-1-amine, N-2-propenyl-	97	C6H11N
5.	Nonanal	142	C9H18O
6.	Cyclohexanol, 4-methyl-	114	C7H14O

Sample file: >AG251 Spectrum #: 2485
Search speed: 1 Tilting option: N No. of ion ranges searched: 52

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IV
1.	47	124196	2288	"BIGDB	74	50	2	0	57	23	17		18	
2.	35	124196	18452	"BIGDB	60	14	0	0	84	46	11		37	
3.	35	124196	18448	"BIGDB	72	47	3	0	84	30	14		12	
4.	30*	124027	7134	"BIGDB	43	55	2	0	93	43	8		18	
5.	25	124196	18447	"BIGDB	53	61	1	0	74	50	7		12	
6.	25*	589913	17093	"BIGDB	36	67	3	0	171	50	7		13	

QUANT REPORT

Operator ID: TONY
Output File: ^AG220::D2
Data File: >AG220::D3
Name: 93ZE06R65 SF1187
Misc: 05/18/93 #12

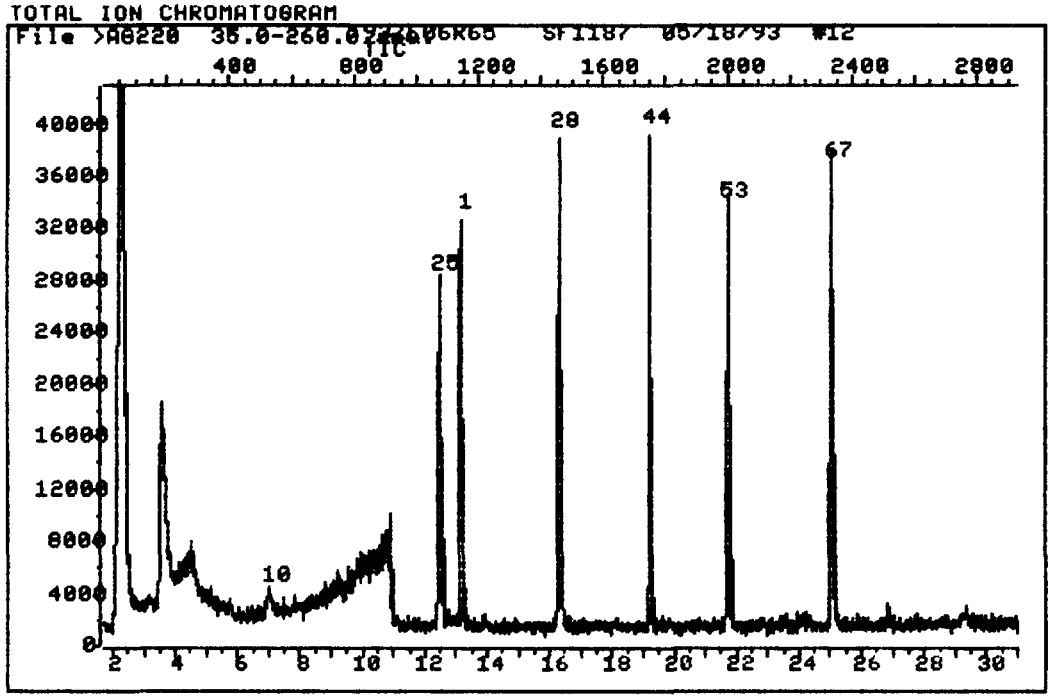
Quant Rev: 7
Quant Time: 930615 16:20
Injected at: 930518 21:53
Dilution Factor: 1.00000
Instrument ID: HP MS#4

ID File: IDAG05::QT
Title: ID FILE FOR 624 VUC METHOD
Last Calibration: 930518 10:10
Last Qcal Time: 930518 14:24

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.15	96.0	66245	10.00	ug/L	93
10)	Acetone	6.98	43.0	18476	30.96	ug/L	89
25)	BENZENE-D6	12.44	84.0	62920	10.03	ug/L	96
28)	*TOLUENE-D8	16.28	98.0	61362	10.00	ug/L	97
44)	*CHLOROBENZENE-D5	19.19	117.0	48365	10.00	ug/L	97
53)	p-BROMOFLUOROBENZENE	21.72	174.0	21350	9.08	ug/L	98
67)	1,2-DICHLOROBENZENE-D4	25.03	152.0	22750	9.69	ug/L	88

* Compound is ISTD

TOTAL ION CHROMATOGRAM

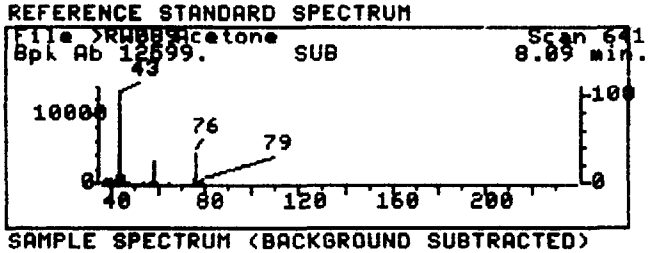


Data File: >AG220::D3 Quant Output File: ^AG220::D2
Name: 93ZE06R65 SF1187 Instrument ID: HP MS#4
Misc: 05/18/93 #12

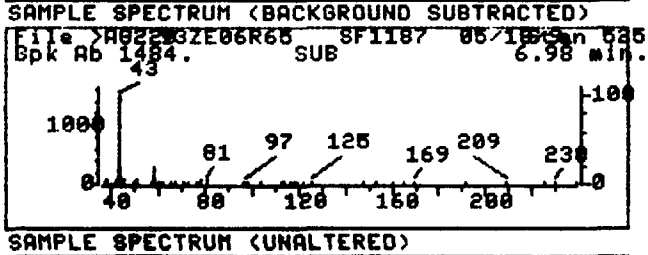
Id File: IDAG05::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930518 10:10 Last Qcal Time: 930518 14:24

Operator ID: TONY
Quant Time : 930615 16:20
Injected at: 930518 21:53

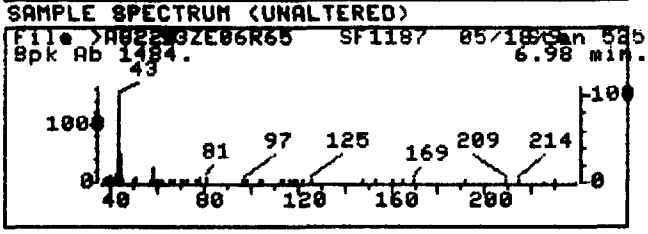
REFERENCE STANDARD SPECTRUM

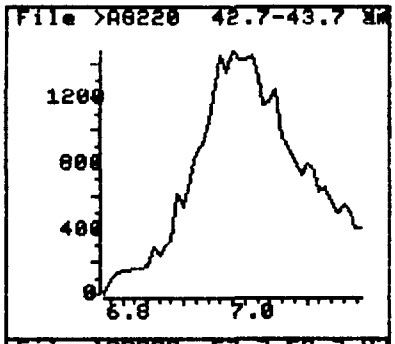


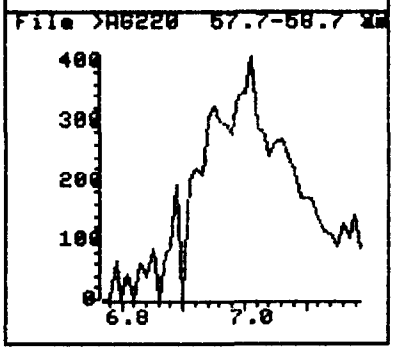
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







Data File: >AG220::D3
Name: 93ZE06R65 SF1187
Misc: 05/18/93 #12
Quant Time: 930615 16:20
Injected at: 930518 21:53
Last Qcal Time: 930518 14:24

Quant Output File: ^AG220::D2
Instrument ID: HP MS#4

Quant ID File: IDAG05::QT
Last Calibration: 930518 10:10

Compound No : 10
Compound Name : Acetone
Scan Number : 525
Retention Time: 6.98 min.
Quant Ion : 43.0
Area : 18476
Concentration : 30.96 ug/L
q-value : 89

MS data file header from : >AG220::D3

Sample: 93ZE06R65 SF1187 Operator: TONY REG. GRP. 5/18/93 21:53
Misc : 05/18/93 #12
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 0 Equip ID: HP MS#4
Method file: VOA#1 Tuning file: MTMSD1 No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	10.	160.	0.	0.	0.
Chromatographic times, min. :	5.0	5.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	6.0	0.0	0.0	.1	0.0

>AG220 93ZE06R65 SF1187 05/18/93 #12
35.01 260.0 CLP TIC
Upslope: .2000 Area Reject: 15705. Max Peaks: 2 Bunch: -1 Valley >100 %
Dnslope: 0.0000 Results File IAG220 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	3.56	171	183	207	15455	236542	166941	100.00	90.081
2	10.88	912	914	922	8422	28936	18382	11.01	~~9.919~~ RCL

Sum of corrected areas: 185323.

ag 6/16/93

Summary of Unknowns PBM Library Search and Quantitation

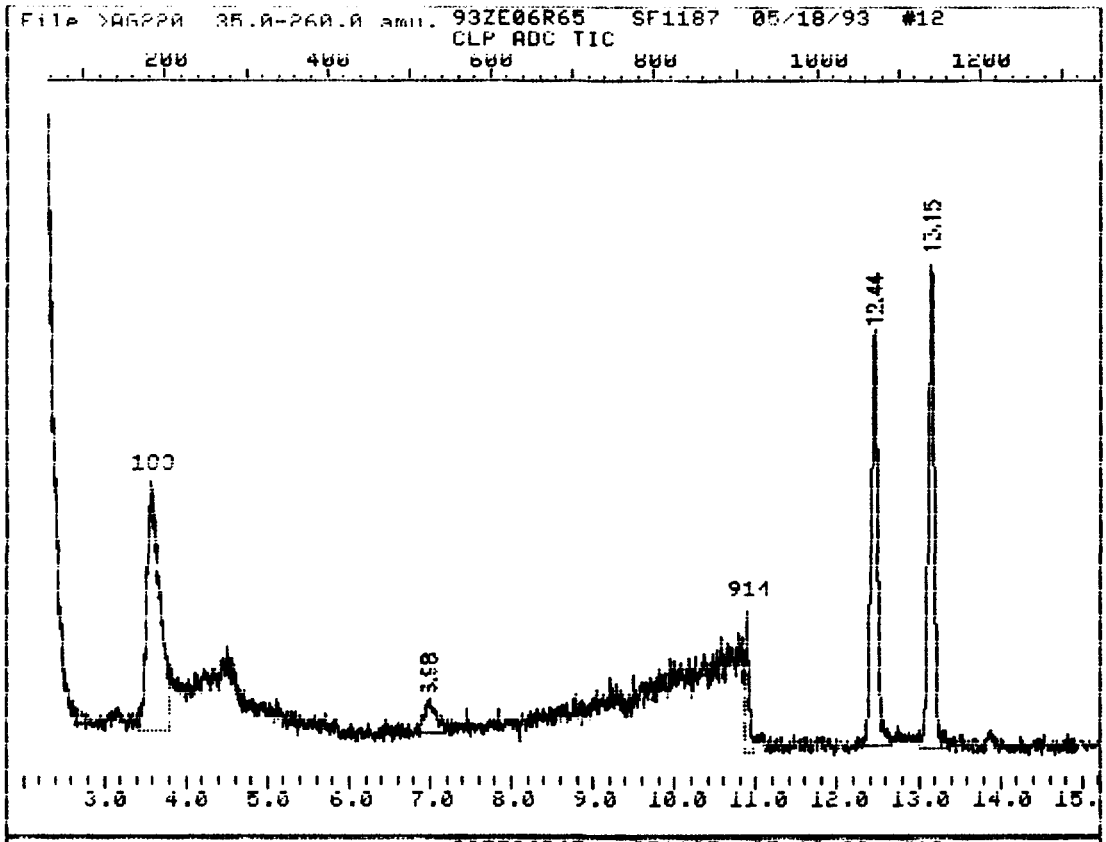
Standard	Concentration	Area	Retention Time	Unknown Window
1	10.0	157051.	13.15	2.30 - 14.71
2	10.0	166438.	16.28	14.71 - 17.74
3	10.0	170396.	19.19	17.74 - 31.02

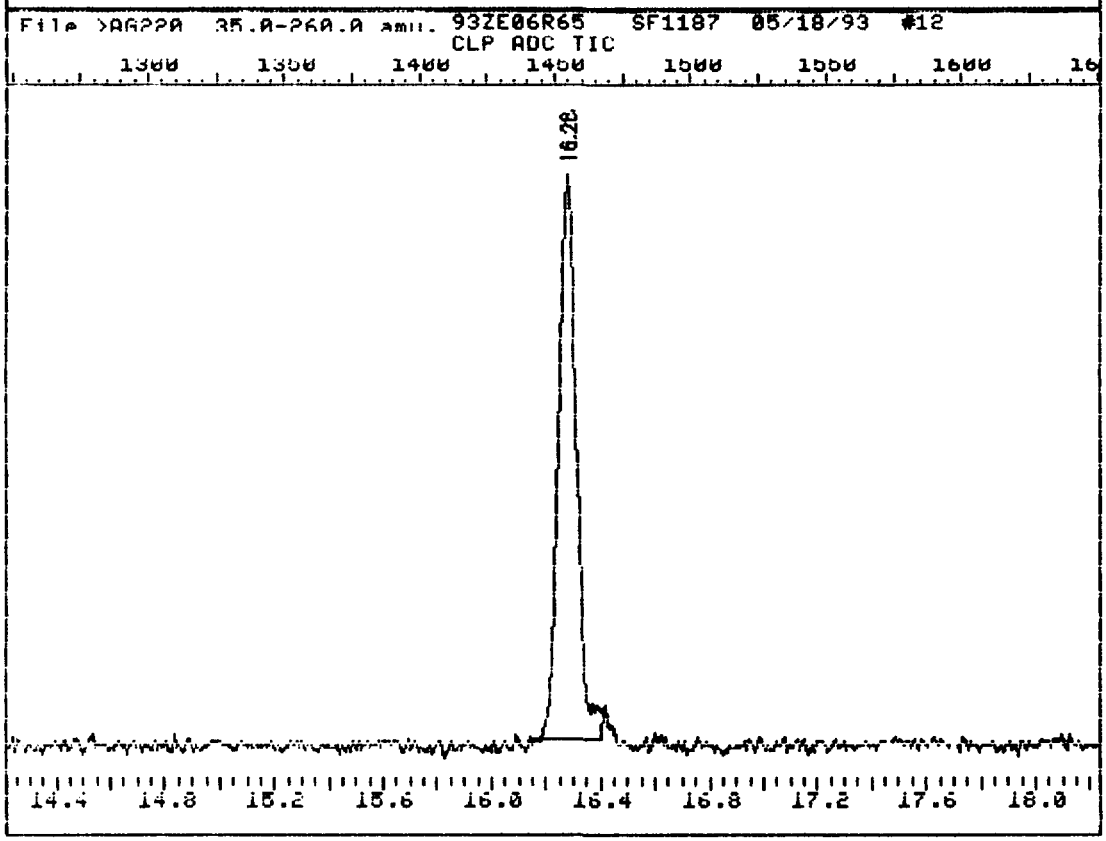
Dilution Factor = 1.00 This sample was 5.00000 g or mL

Correction Factor = 1.00

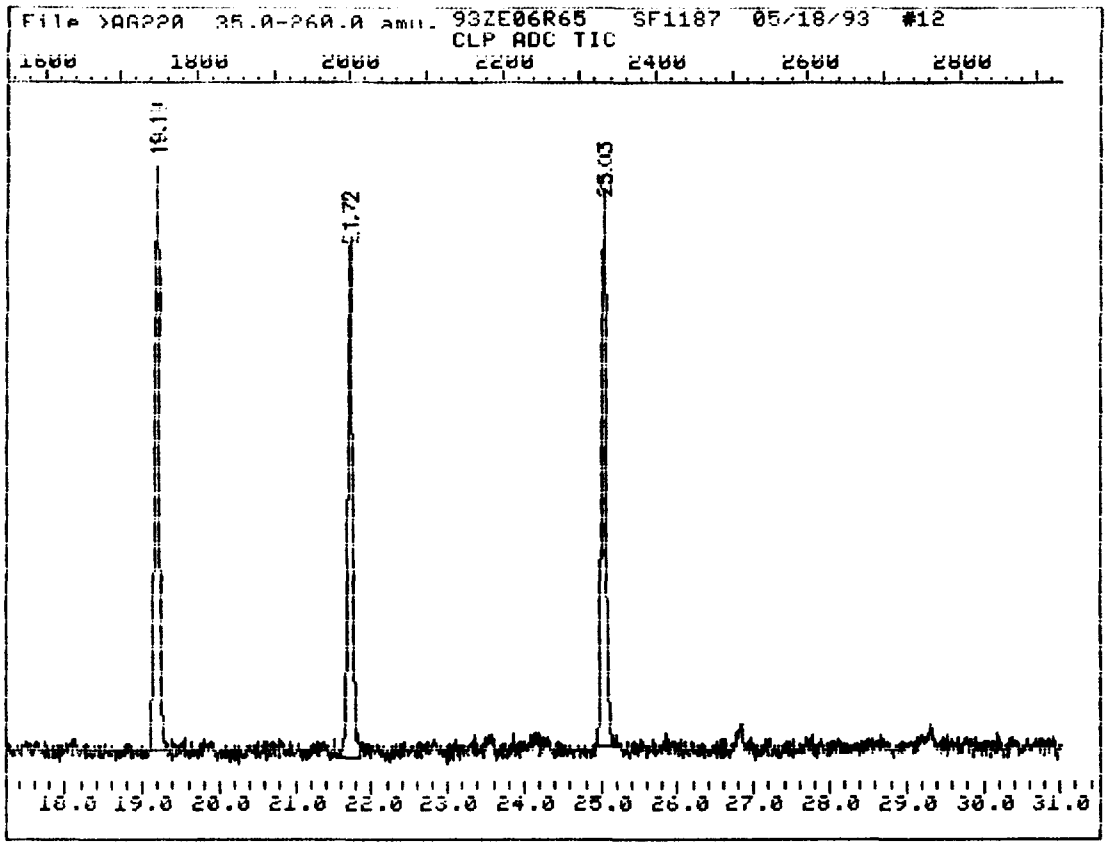
$$\text{Unknown Concentration} = \frac{\text{Conc Int Std} * \text{Area Unknown}}{\text{Area Int Std}} * \text{Correction Factor}$$

11:50 AM WED., 16 JUNE, 1993

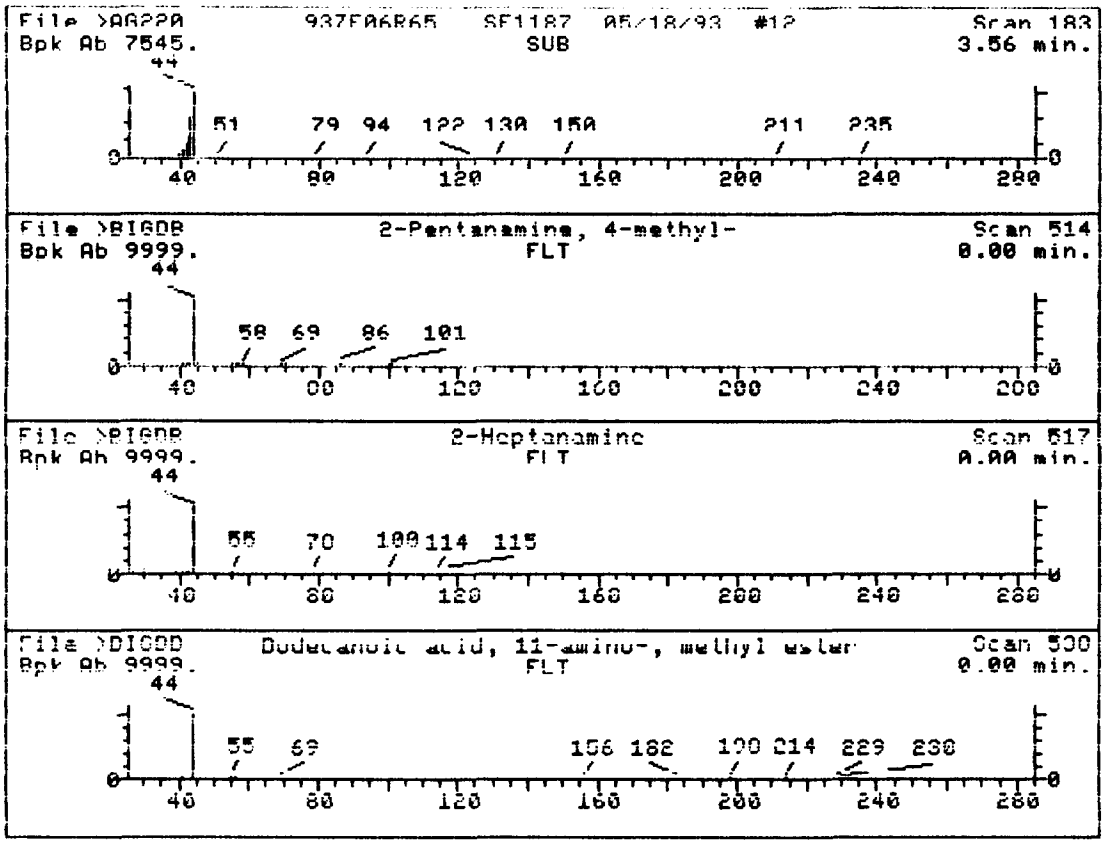




Instrument ID: HP MS# Analyzed on: 5/18/93 21:53



Instrument ID: HP MS# Analyzed on: 5/18/93 21:53



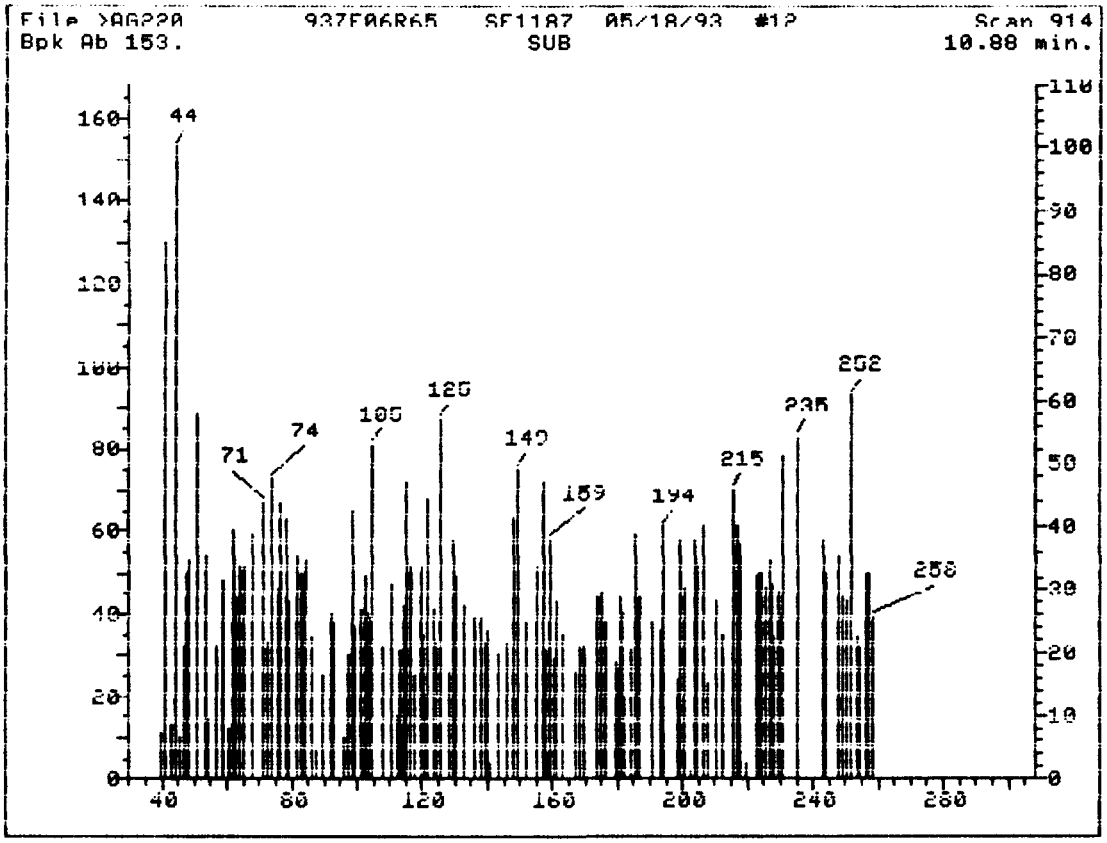
Instrument ID: HP MS# Analyzed on: 5/18/93 21:53
Result 1 in PBM results file: LAG220
Retention Time: 3.56 Area: 166941 Tentative Conc: 11.00
The unknown area is 106.30% of the nearest internal standard

1.	2-Pentanamine, 4-methyl-	101	C6H15N
2.	2-Heptanamine	115	C7H17N
3.	Dodecanoic acid, 11-amino-, methyl ester	229	C13H27NO2
4.	Methanesulfinic acid, trifluoro-, trimethylsilyl est	206	C4H9F3O2SSi
5.	Nortriptyline	263	C19H21N
6.	Benzeneethanamine, N-methyl-	135	C9H13N

Unknown

Sample file: >AG220 Spectrum #: 183
Search speed: 1 Tilting option: N No. of ion ranges searched: 29

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IV
1.	51*	108098	514	"BIGDB	41	28	1	0	67	21	22			23
2.	48*	123820	517	"BIGDB	36	31	1	0	91	21	17			19
3.	47*	56817926	538	"BIGDB	33	46	1	0	67	21	17			18
4.	46*	51735752	535	"BIGDB	31	34	1	0	72	21	17			17
5.	46*	72695	599	"BIGDB	32	69	1	0	90	21	17			17
6.	43*	589082	524	"BIGDB	23	43	1	0	71	21	17			14

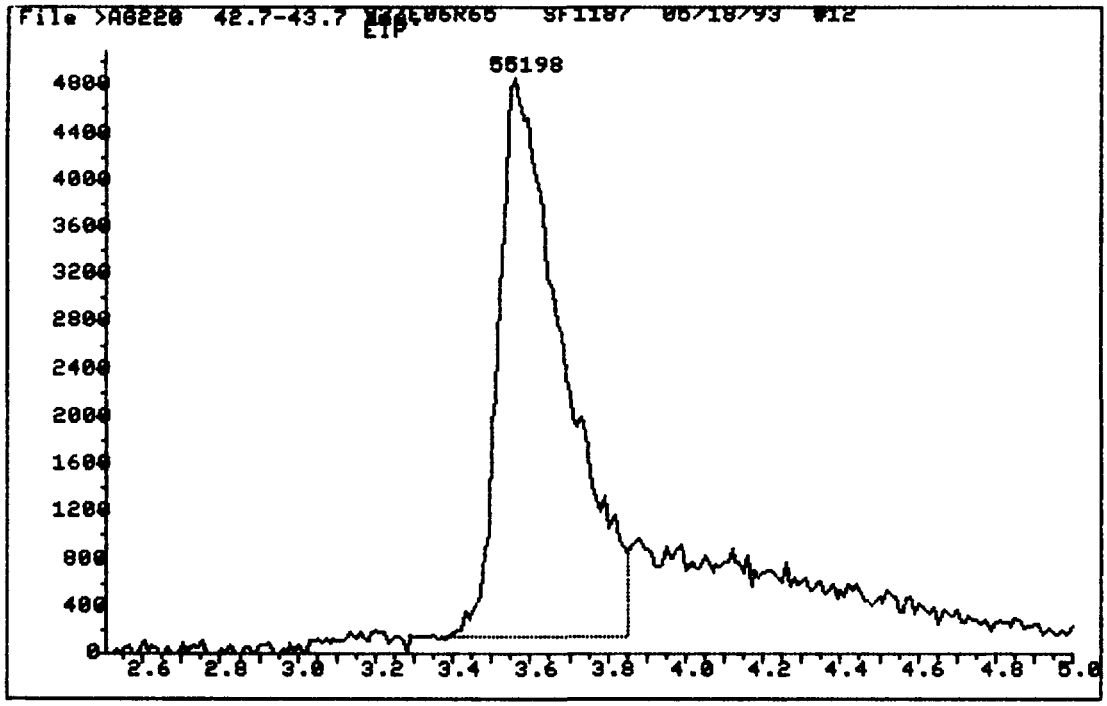


Instrument ID: HP MS# Analyzed on: 5/18/93 21:53
Result 2 in PBM results file: LAG220
Retention Time: 10.88 Area: 18382 Tentative Conc: 1.00
The unknown area is 11.70% of the nearest internal standard

Sample file: >AG220 Spectrum #: 914

No data base entries were retrieved.

BQL dg 6/16/93



FMGR : INT,,,,-2

>AG220 93ZE06R65 SF1187 05/18/93 #12
42.71 43.7 EIP
Upslope: .2000 Area Reject: 5.00 % Max Peaks: 1 Bunch: -2 Valley >100 %
Dnslope: 0.0000 Results File VDIR75 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	3.56	164	183	212	4707	59366	55198	100.00	100.000

Sum of corrected areas: 55198.

Est. Conc. of TIC #1 =

$$\frac{\text{Area TIC\#1 (m/z 43)}}{\text{Area IS 1 (Quant ion)}} \times \frac{\text{Conc IS1}}{1} = \frac{55198}{66245} \times \frac{10}{1} = 8.3$$

report 8 J µg/L

QUANT REPORT

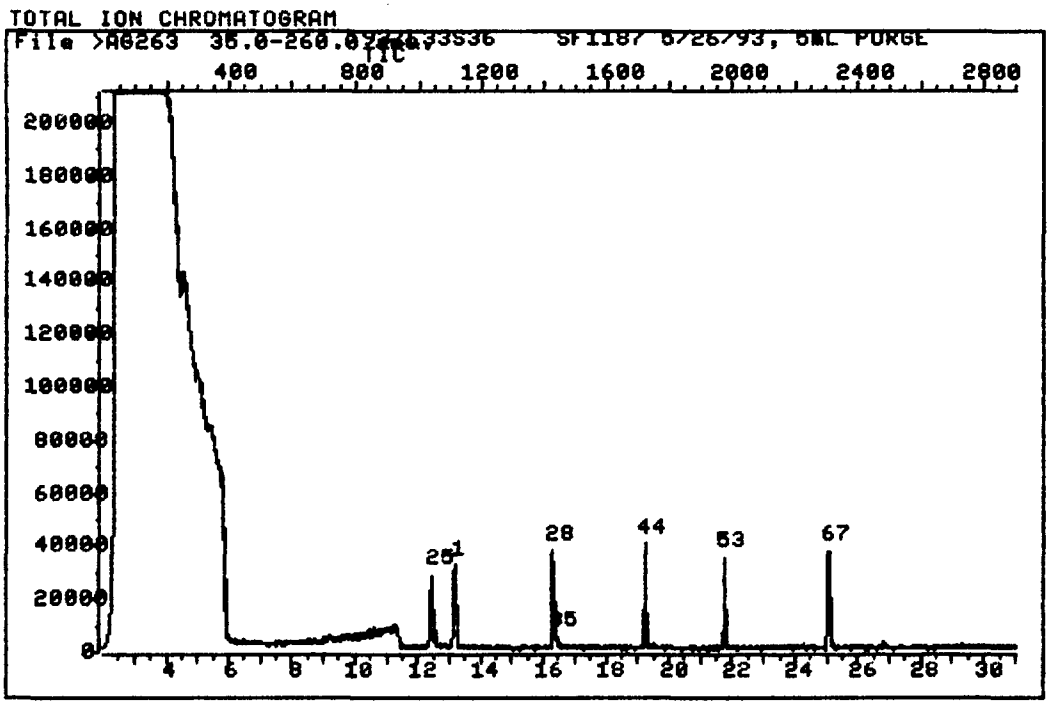
Operator ID: TONY
Output File: ^AG263::D5
Data File: >AG263::D4
Name: 93ZE33S36 SF1187
Misc: 5/26/93, 5mL PURGE

Quant Rev: 7
Quant Time: 930526 17:51
Injected at: 930526 17:18
Dilution Factor: 1.00000
Instrument ID: HP MS#4

ID File: IDAG09::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54
Last Qcal Time: 930526 09:30

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.13	1111	65773	10.00	ug/L	94
25)	BENZENE-D6	12.43	1041	63111	10.05	ug/L	99
28)	*TOLUENE-D8	16.29	1428	62701	10.00	ug/L	97
35)	Toluene	16.40	1439	4392	1.10	ug/L	88
44)	*CHLOROBENZENE-D5	19.20	1720	49579	10.00	ug/L	98
53)	p-BROMOFLUOROBENZENE	21.74	1974	21501	9.38	ug/L	95
67)	1,2-DICHLOROBENZENE-D4	25.03	2304	22978	9.50	ug/L	91

* Compound is ISTD

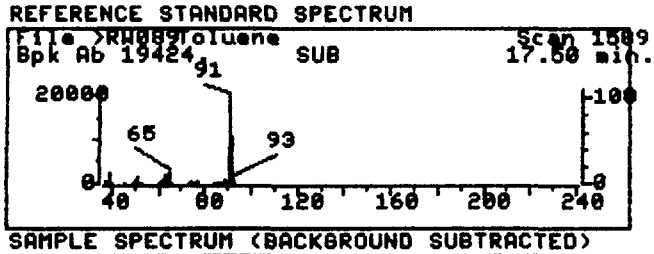


Data File: >AG263::D4 Quant Output File: ^AG263::D5
Name: 93ZE33S36 SF1187 Instrument ID: HP MS#4
Misc: 5/26/93, 5mL PURGE

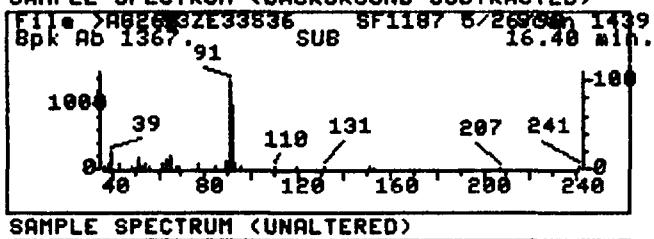
Id File: IDAG09::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54 Last Qcal Time: 930526 09:30

Operator ID: TONY
Quant Time : 930526 17:51
Injected at: 930526 17:18

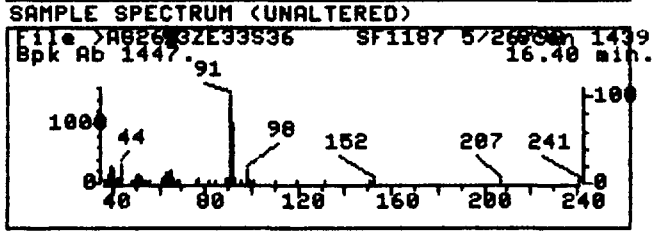
REFERENCE STANDARD SPECTRUM

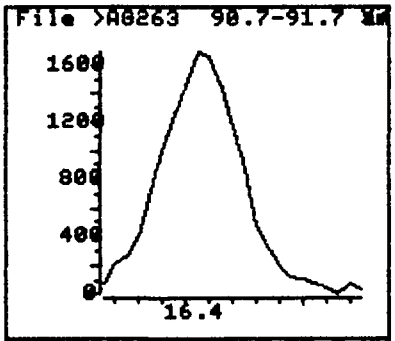


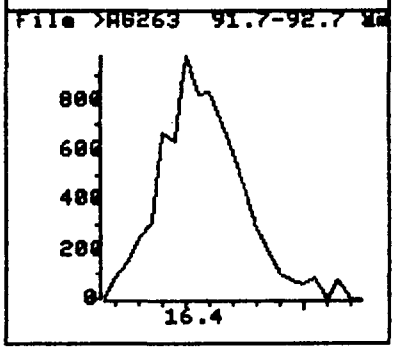
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







Data File: >AG263::D4
Name: 93ZE33S36 SF1187
Misc: 5/26/93, 5mL PURGE
Quant Time: 930526 17:51
Injected at: 930526 17:18
Last Qcal Time: 930526 09:30

Quant Output File: ^AG263::D5
Instrument ID: HP MS#4

Quant ID File: IDAG09::QT
Last Calibration: 930525 17:54

Compound No : 35
Compound Name : Toluene
Scan Number : 1439
Retention Time: 16.40 min.
Quant Ion : 92.0
Area : 4392
Concentration : 1.10 ug/L
q-value : 88

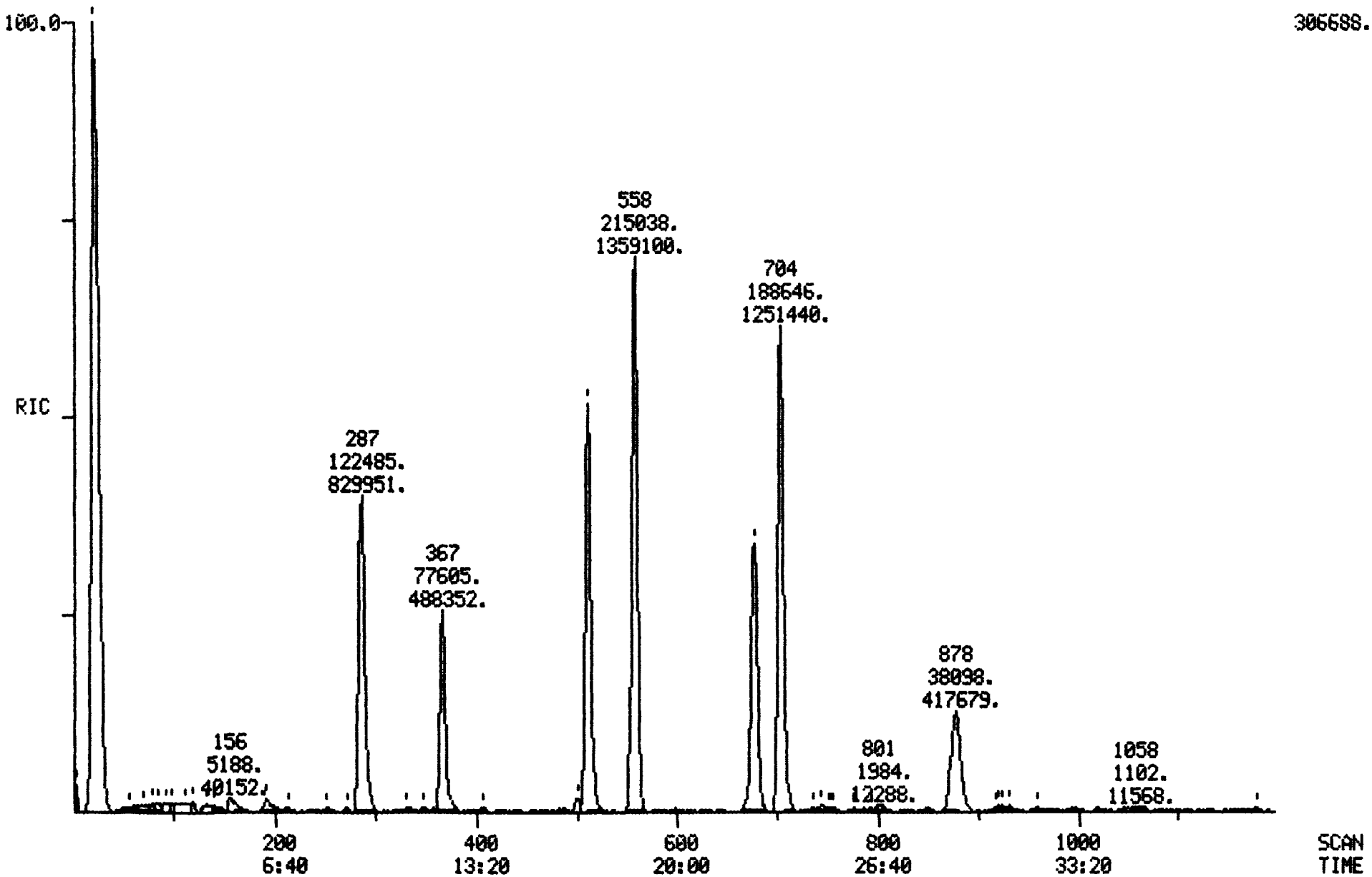
PROCEDURE: TCA DIAGNOSTIC REPORT 5/25/93 21:49:53
DATA FILE: 93ZE33S37D
REFERENCE: VP11
NAME LIST: VP INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: VP_IS

< ---- STANDARDS ----- ><				--- PLUS UNKNOWNS --- ><				- LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	3	2	0	6	6	1	41	VP_IS/VP_SURR
3	3	1	0	12	5	1	142	VP_IS/VP_CMPDS1
3	3	1	0	12	4	1	0	VP_IS/VP_CMPDS2
3	3	1	0	12	4	1	0	VP_IS/VP_CMPDS3
3	3	1	0	14	9	4	64	VP_IS/VP_CMPDS4

44 COMPOUNDS PROCESSED, 16 FOUND

< COMPOUND ><			---------- SEARCH ---------- >< SAT ><							------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	VP	1	286	287	287	.	1	979	.	128	287	.	1
2	VP	2	557	558	558	.	2	997	.	77	558	.	1
3	VP	3	677	678	678	.	1	992	.	55	678	.	1
4	VP	4	367	368	367	-1	1	995	.	65	367	.	1
5	VP	5	511	512	512	.	1	974	.	84	512	.	1
6	VP	6	703	704	704	.	1	995	.	98	704	.	1
7	VP	7	54	56	.	.	.	.	.	50	.	.	.
8	VP	8	85	87	.	.	.	.	.	94	.	.	.
9	VP	9	94	96	.	.	.	.	.	62	.	.	.
10	VP	10	126	128	.	.	.	.	.	64	.	.	.
11	VP	11	191	193	192	-1	1	978	.	84	192	.	1
12	VP	12	-209	211	.	.	.	.	.	43	211	.	1
13	VP	13	-213	215	.	.	.	.	.	56	215	.	2
14	VP	14	237	239	241	2	1	993	.	76	239	-2	1
15	VP	15	-233	235	.	.	.	.	.	53	.	.	.
16	VP	16	272	273	.	.	.	.	.	96	273	.	1
17	VP	17	309	310	.	.	.	.	.	63	310	.	1
18	VP	18	331	332	.	.	.	.	.	96	332	.	1
19	VP	19	348	349	.	.	.	.	.	83	348	.	1
20	VP	20	369	370	.	.	.	.	.	62	369	.	1
21	VP	21	367	368	368	.	1	988	.	72	368	.	1
22	VP	22	407	408	.	.	.	.	.	97	407	.	1
23	VP	23	407	408	.	.	.	.	.	117	407	.	1
24	VP	24	424	425	.	.	.	.	.	43	424	.	1
25	VP	25	435	436	.	.	.	.	.	83	435	.	1
26	VP	26	475	476	.	.	.	.	.	63	477	.	1
27	VP	27	483	484	.	.	.	.	.	75	484	.	1
28	VP	28	500	501	501	.	1	939	.	130	501	.	1
29	VP	29	518	519	.	.	.	.	.	129	518	.	1
30	VP	30	521	522	.	.	.	.	.	97	523	.	1
31	VP	31	515	516	.	.	.	.	.	78	.	.	.
32	VP	32	521	522	.	.	.	.	.	75	524	.	1
33	VP	33	558	559	.	.	.	.	.	63	558	.	1
34	VP	34	599	600	.	.	.	.	.	173	599	.	1
35	VP	35	613	614	.	.	.	.	.	43	613	.	1
36	VP	36	-660	661	.	.	.	.	.	43	660	.	1
37	VP	37	670	671	.	.	.	.	.	164	670	.	1
38	VP	38	669	670	.	.	.	.	.	83	669	.	1
39	VP	39	709	710	710	.	1	979	.	92	710	.	1
40	VP	40	744	745	745	.	1	921	.	112	745	.	1
41	VP	41	802	803	802	-1	1	971	.	106	802	.	1
42	VP	42	922	923	922	-1	2	991	.	104	923	1	1
43	VP	44	929	930	931	1	2	986	.	106	931	.	1
44	VP	45	959	960	960	.	1	988	.	106	960	.	1

RIC DATA: 93ZE33537D #1 SCANS 1 TO 1194
05/25/93 21:08:00 CALI: 93ZE33537D #3
SAMPLE: CLP,1187,,93ZE33537D,L,W,V,EPA 1:20
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
RANGE: G 1,1194 LABEL: N 2, 4.0 QUAN: A 2, 4.0 J 0 BASE: U 20, 3



Quantitation Report File: 93ZE33S37D

Data: 93ZE33S37D.TI
05/25/93 21:08:00
Sample: CLP,1187,,93ZE33S37D,L,W,V,EPA 1:20
Conds.: 45' (3 MIN) TO 220' @ 8'/MIN
Formula: Instrument: INCOS1 Weight: 0.000
Submitted by: Analyst: ZAR Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C040	CARBON DISULFIDE	
15	C043	ACRYLONITRILE	
16	C045	1,1-DICHLOROETHENE	
17	C050	1,1-DICHLOROETHANE	
18	C053	1,2-DICHLOROETHENE (TOTAL)	
19	C060	CHLOROFORM	
20	C065	1,2-DICHLOROETHANE	
21	C110	2-BUTANONE	
22	C115	1,1,1-TRICHLOROETHANE	
23	C120	CARBON TETRACHLORIDE	
24	C125	VINYL ACETATE	
25	C130	BROMODICHLOROMETHANE	
26	C140	1,2-DICHLOROPROPANE	
27	C143	CIS-1,3-DICHLOROPROPENE	
28	C150	TRICHLOROETHENE	
29	C155	DIBROMOCHLOROMETHANE	
30	C160	1,1,2-TRICHLOROETHANE	
31	C165	BENZENE	
32	C172	TRANS-1,3-DICHLOROPROPENE	
33	C175	2-CHLOROETHYLVINYL ETHER	
34	C180	BROMOFORM	
35	C205	4-METHYL-2-PENTANONE	
36	C210	2-HEXANONE	
37	C220	TETRACHLOROETHENE	
38	C225	1,1,2,2-TETRACHLOROETHANE	
39	C230	TOLUENE	
40	C235	CHLOROBENZENE	
41	C240	ETHYL BENZENE	
42	C245	STYRENE	
43	C260	M-XYLENE	
44	C270	O-&/OR P-XYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	287	9:34	1	1.000	A BB	130547.	10.000	UG/L	12.15
2	77	558	18:36	2	1.000	A BB	371383.	10.000	UG/L	12.15
3	55	678	22:36	3	1.000	A BB	252239.	10.000	UG/L	12.15
4	65	367	12:14	1	1.279	A BB	154995.	9.908	UG/L	12.04
5	84	512	17:04	2	0.918	A BB	448485.	9.250	UG/L	11.24
6	98	704	23:28	3	1.038	A BB	463040.	8.275	UG/L	10.05
7	NOT	FOUND								
8	NOT	FOUND								
9	NOT	FOUND								
10	NOT	FOUND								
11	84	192	6:24	1	0.669	A BB	10164.	0.729	UG/L	0.89
12	43	211	7:02	1	0.735	A BV	5496.	4.632	UG/L	5.63
~~13~~	~~56~~	~~215~~	~~7:10~~	~~1~~	~~0.749~~	~~A BB~~	~~152.~~	~~4.187~~	~~UG/L~~	~~5.09~~ BDL
14	76	239	7:58	1	0.833	A BB	4133.	0.094	UG/L	0.11
15	NOT	FOUND								
16	96	273	9:06	1	0.951	A BB	1752.	0.083	UG/L	0.10
17	63	310	10:20	1	1.080	A BB	786.	0.019	UG/L	0.02
18	96	332	11:04	1	1.157	A BB	1781.	0.079	UG/L	0.10
19	83	348	11:36	1	1.213	A BB	2165.	0.051	UG/L	0.06
20	62	369	12:18	1	1.286	A BB	694.	0.038	UG/L	0.05
21	72	368	12:16	2	0.659	A BB	393.	0.744	UG/L	0.90
22	97	407	13:34	2	0.729	A BB	2017.	0.058	UG/L	0.07
23	117	407	13:34	2	0.729	A BB	100.	0.019	UG/L	0.02
24	43	424	14:08	2	0.760	A BV	2148.	0.921	UG/L	1.12
25	83	435	14:30	2	0.780	A BB	726.	0.024	UG/L	0.03
26	63	477	15:54	2	0.855	A BB	525.	0.022	UG/L	0.03
27	75	484	16:08	2	0.867	A BB	1168.	0.062	UG/L	0.07
28	130	501	16:42	2	0.898	A BB	6481.	0.182	UG/L	0.22
29	129	518	17:16	2	0.928	A BB	677.	0.028	UG/L	0.03
30	97	523	17:26	2	0.937	A BB	660.	0.048	UG/L	0.06
31	NOT	FOUND								
32	75	524	17:28	2	0.939	A VB	989.	0.020	UG/L	0.02
~~33~~	~~69~~	~~558~~	~~18:36~~	~~2~~	~~1.000~~	~~A BB~~	~~4222.~~	~~10.461~~	~~UG/L~~	~~12.71~~ ZR 6493
34	173	599	19:58	2	1.073	A BB	885.	0.053	UG/L	0.06
35	43	613	20:26	3	0.904	A VV	6356.	0.630	UG/L	0.77
36	43	660	22:00	3	0.973	A VV	5648.	0.917	UG/L	1.11
37	164	670	22:20	3	0.988	A BB	4114.	0.101	UG/L	0.12
38	83	669	22:18	3	0.987	A BB	1451.	0.111	UG/L	0.13
39	92	710	23:40	3	1.047	A BB	6651.	0.134	UG/L	0.16
40	112	745	24:50	3	1.099	A BB	4836.	0.072	UG/L	0.09
41	106	802	26:44	3	1.183	A BB	2853.	0.084	UG/L	0.10
42	104	923	30:46	3	1.361	A BB	5334.	0.101	UG/L	0.12
43	106	931	31:02	3	1.373	A BB	2933.	0.079	UG/L	0.10
44	106	960	32:00	3	1.416	A BB	3716.	0.108	UG/L	0.13

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:30	1.01	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	18:32	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	22:32	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:12	1.00	1.284	1.00	9.91	10.00	1.187	1.198	0.99
5	17:00	1.00	0.917	1.00	9.25	10.00	1.208	1.306	0.92
6	23:24	1.00	1.038	1.00	8.27	10.00	1.836	2.218	0.83
7	1:44		0.182						
8	2:48		0.295						
9	3:06		0.326						
10	4:12		0.442						

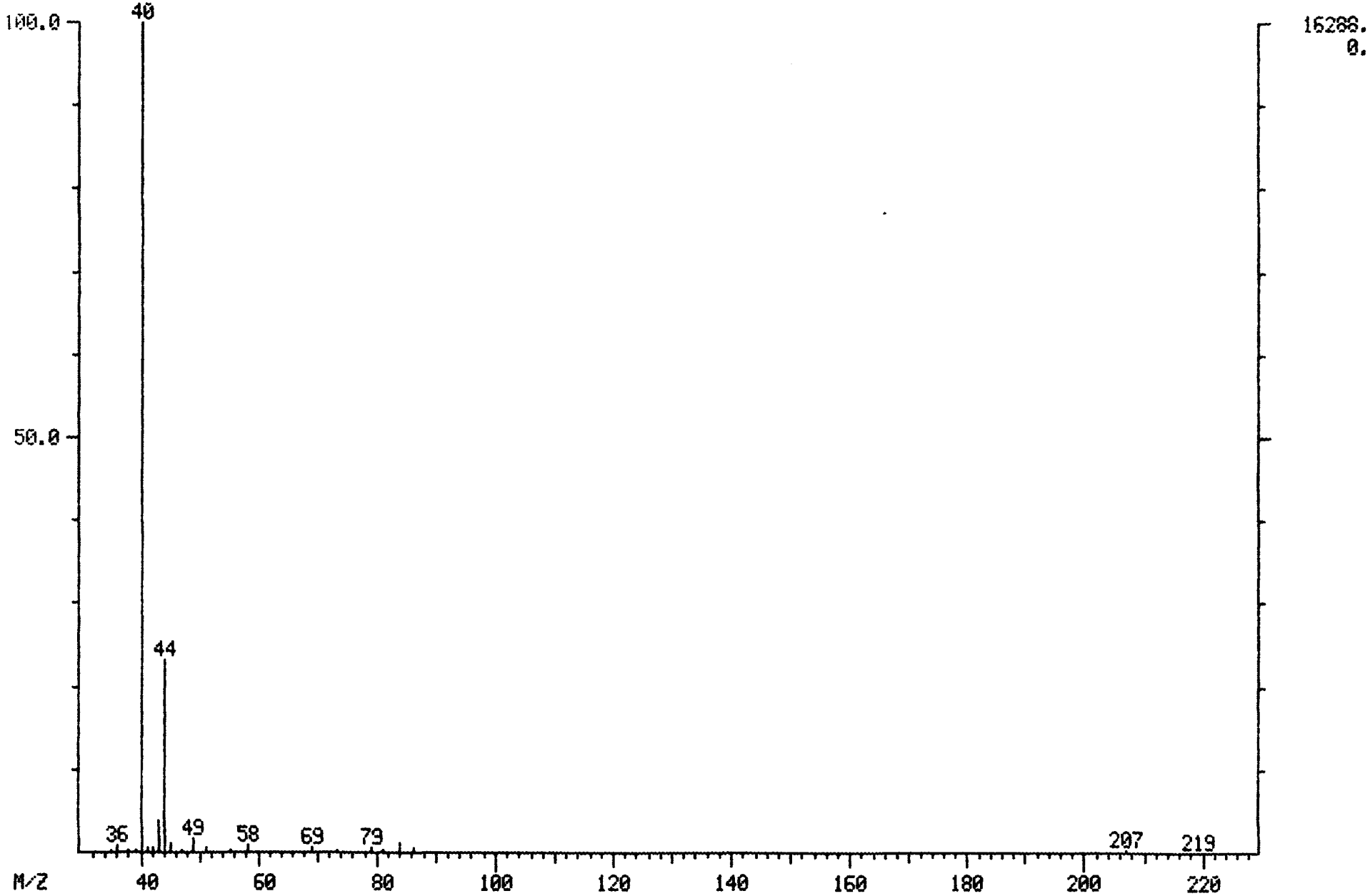
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	6:20	1.01	0.667	1.00	0.73	15.00	0.052	1.068	0.05
12	6:54	1.02	0.726	1.01	4.63	75.00	0.006	0.091	0.06
13	7:02	1.02	0.740	1.01	4.19	75.00	0.000	0.003	0.06
14	7:50	1.02	0.825	1.01	0.09	15.00	0.021	3.365	0.01
15	7:40		0.807						
16	9:02	1.01	0.951	1.00	0.08	15.00	0.009	1.622	0.01
17	10:16	1.01	1.081	1.00	0.02	15.00	0.004	3.192	0.00
18	11:00	1.01	1.158	1.00	0.08	15.00	0.009	1.719	0.01
19	11:34	1.00	1.218	1.00	0.05	15.00	0.011	3.282	0.00
20	12:18	1.00	1.295	0.99	0.04	15.00	0.004	1.385	0.00
21	12:12	1.01	0.658	1.00	0.74	75.00	0.000	0.014	0.01
22	13:32	1.00	0.730	1.00	0.06	15.00	0.004	0.944	0.00
23	13:32	1.00	0.730	1.00	0.02	15.00	0.000	0.142	0.00
24	14:06	1.00	0.761	1.00	0.92	30.00	0.002	0.063	0.03
25	14:28	1.00	0.781	1.00	0.02	15.00	0.001	0.816	0.00
26	15:48	1.01	0.853	1.00	0.02	15.00	0.001	0.637	0.00
27	16:04	1.00	0.867	1.00	0.06	24.30	0.001	0.510	0.00
28	16:38	1.00	0.897	1.00	0.18	15.00	0.012	0.961	0.01
29	17:14	1.00	0.930	1.00	0.03	15.00	0.001	0.657	0.00
30	17:20	1.01	0.935	1.00	0.05	15.00	0.001	0.367	0.00
31	17:08		0.924						
32	17:20	1.01	0.935	1.00	0.02	5.70	0.005	1.305	0.00
33	18:32	1.00	1.000	1.00	10.46	15.00	0.008	0.011	0.70
34	19:54	1.00	1.074	1.00	0.05	15.00	0.002	0.447	0.00
35	20:22	1.00	0.904	1.00	0.63	30.00	0.008	0.400	0.02
36	21:56	1.00	0.973	1.00	0.92	30.00	0.007	0.244	0.03
37	22:16	1.00	0.988	1.00	0.10	15.00	0.011	1.620	0.01
38	22:14	1.00	0.987	1.00	0.11	15.00	0.004	0.519	0.01
39	23:36	1.00	1.047	1.00	0.13	15.00	0.018	1.973	0.01
40	24:44	1.00	1.098	1.00	0.07	15.00	0.013	2.671	0.00
41	26:40	1.00	1.183	1.00	0.08	15.00	0.008	1.349	0.01
42	30:36	1.01	1.358	1.00	0.10	15.00	0.014	2.097	0.01
43	30:52	1.01	1.370	1.00	0.08	15.00	0.008	1.465	0.01
44	31:50	1.01	1.413	1.00	0.11	15.00	0.010	1.363	0.01

MASS SPECTRUM
05/25/93 21:08:00 + 7:02
SAMPLE: CLP,1187,,93ZE33S37D,L,W,V,EPA 1:20
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
TEMP: 76 DEG. C

DATA: 93ZE33S37D #211
CALI: 93ZE33S37D #3

BASE M/Z: 40
RIC: 22400.

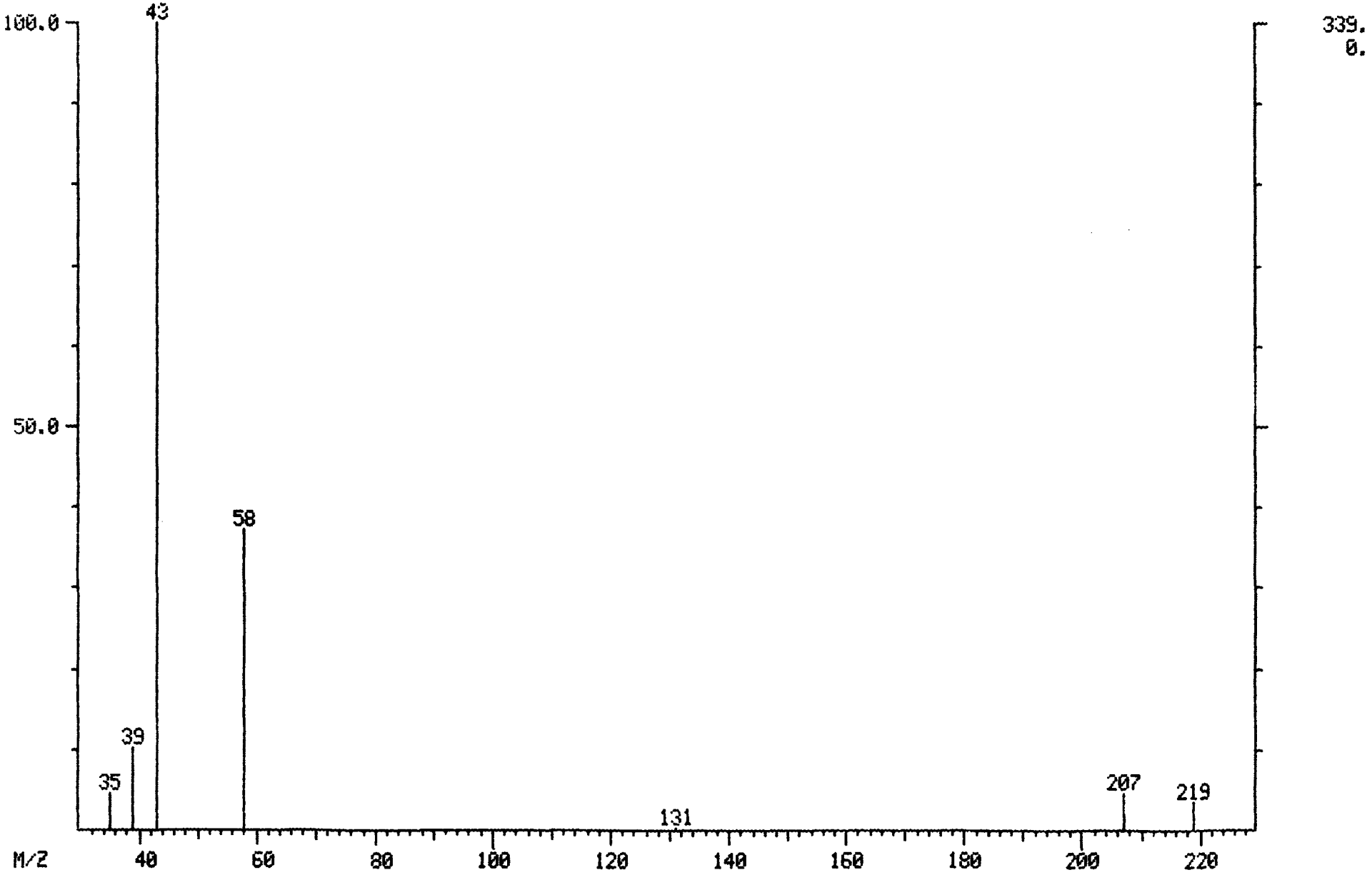
NAME: C035 ACETONE



MASS SPECTRUM
05/25/93 21:08:00 + 7:02
SAMPLE: CLP,1187,,93ZE33S37D,L,W,V,EPA 1:20
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
TEMP: 76 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C035 ACETONE

DATA: 93ZE33S37D #211
CALI: 93ZE33S37D #3

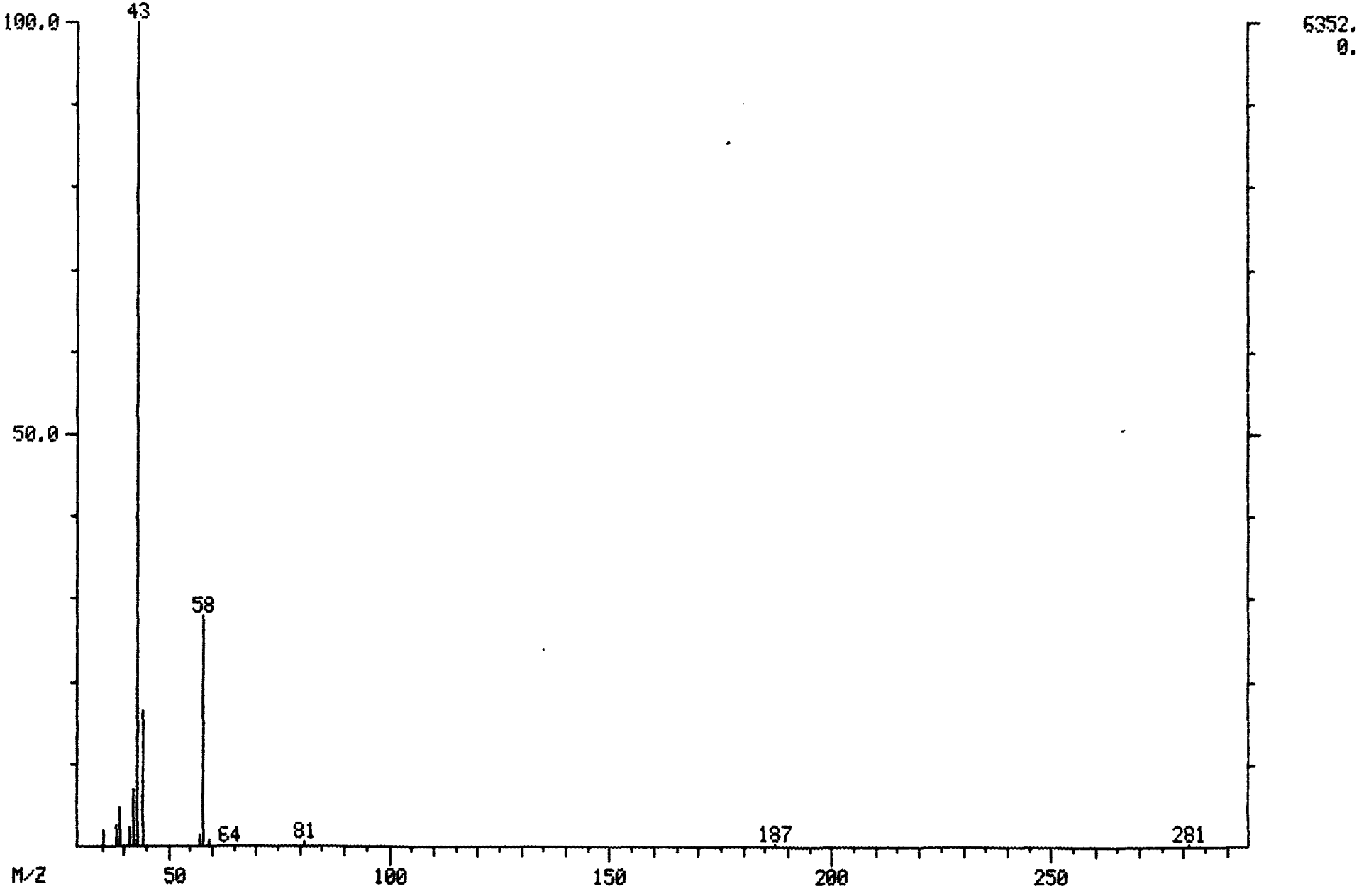
BASE M/Z: 43
RIC: 543.



MASS SPECTRUM
05/25/93 10:49:00 + 6:48
SAMPLE: CLP,1187,,CC0525,L,W,,V,CC
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
TEMP: 74 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: CC0525 #204
CALI: CC0525 #3

BASE M/Z: 43
RIC: 10528.



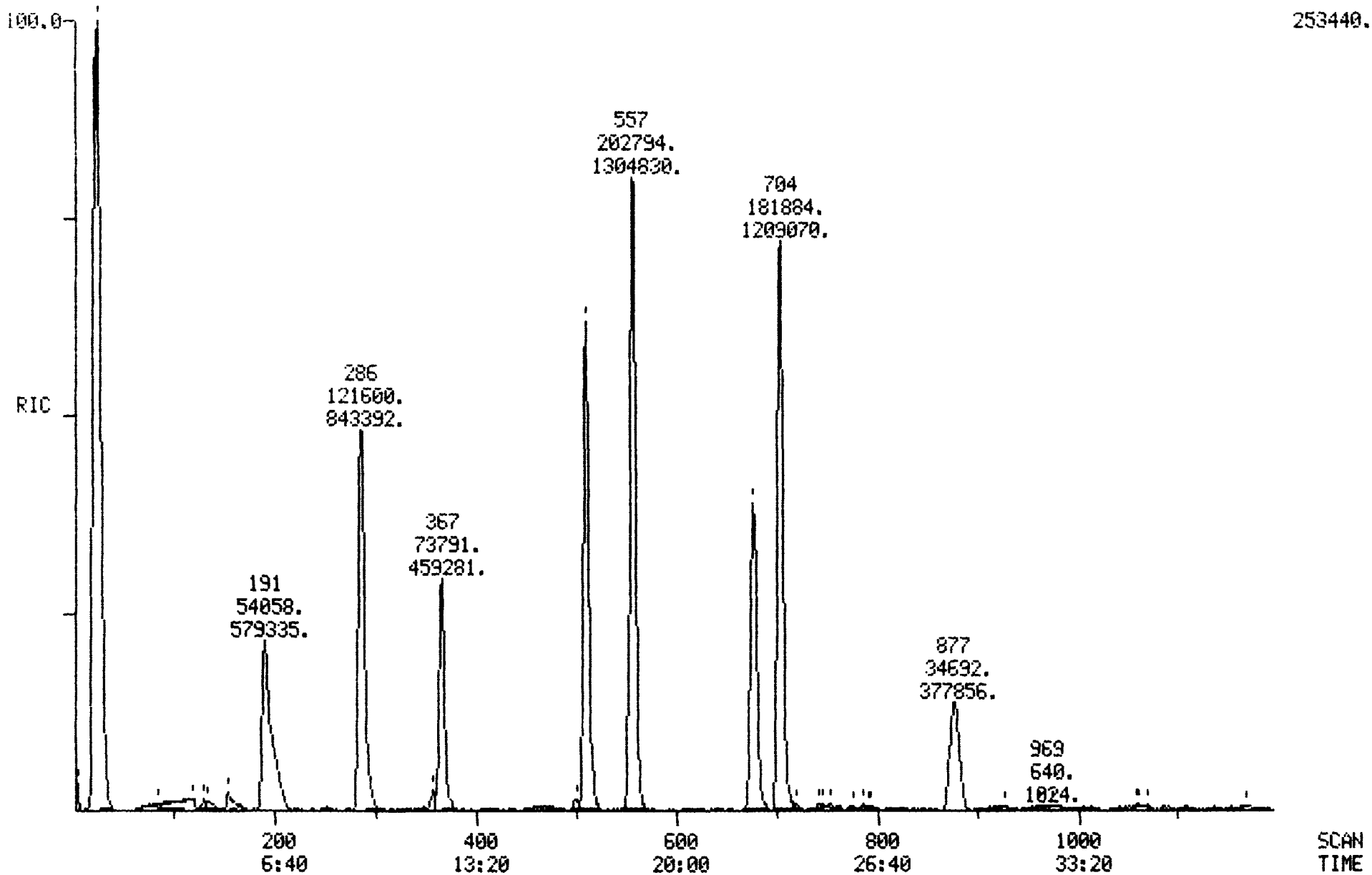
PROCEDURE: TCA DIAGNOSTIC REPORT 5/25/93 22:38:13
DATA FILE: 93ZE33D37D
REFERENCE: VP11
NAME LIST: VP INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: VP_IS

< ---- STANDARDS ----- >				< --- PLUS UNKNOWNS --- >				< - LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	3	2	0	6	6	1	58	VP_IS/VP_SURR
3	3	1	0	12	5	2	47	VP_IS/VP_CMPDS1
3	3	1	0	12	4	1	56	VP_IS/VP_CMPDS2
3	3	1	0	12	4	1	0	VP_IS/VP_CMPDS3
3	3	1	0	14	7	8	74	VP_IS/VP_CMPDS4

44 COMPOUNDS PROCESSED, 14 FOUND

< COMPOUND >			< ---------- SEARCH ---------- >					< SAT >		< ------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	VP	1	287	286	286	.	1	975	.	128	286	.	1
2	VP	2	558	557	557	.	2	999	.	77	557	.	1
3	VP	3	678	677	677	.	1	994	.	55	677	.	1
4	VP	4	367	366	367	1	1	989	.	65	367	.	1
5	VP	5	512	511	511	.	1	972	.	84	511	.	1
6	VP	6	704	703	704	1	1	997	.	98	704	.	1
7	VP	7	-56	55	.	.	.	.	.	50	56	.	1
8	VP	8	-87	86	.	.	.	.	.	94	.	.	.
9	VP	9	-96	95	.	.	.	.	.	62	.	.	.
10	VP	10	-128	127	.	.	.	.	.	64	.	.	.
11	VP	11	192	191	191	.	1	984	.	84	191	.	1
12	VP	12	-211	210	.	.	.	.	.	43	209	.	1
13	VP	13	-215	214	.	.	.	.	.	56	213	.	1
14	VP	14	241	240	239	-1	2	915	.	76	239	.	1
15	VP	15	-235	234	.	.	.	.	.	53	.	.	.
16	VP	16	-273	272	.	.	.	.	.	96	272	.	1
17	VP	17	-310	309	.	.	.	.	.	63	.	.	.
18	VP	18	-332	331	.	.	.	.	.	96	333	.	1
19	VP	19	-349	348	.	.	.	.	.	83	348	.	1
20	VP	20	-370	369	.	.	.	.	.	62	369	.	1
21	VP	21	368	367	368	1	1	965	.	72	367	-1	1
22	VP	22	-408	407	.	.	.	.	.	97	407	.	1
23	VP	23	-408	407	.	.	.	.	.	117	.	.	.
24	VP	24	-425	424	.	.	.	.	.	43	424	.	1
25	VP	25	-436	435	.	.	.	.	.	83	434	.	1
26	VP	26	-476	475	.	.	.	.	.	63	476	.	1
27	VP	27	-484	483	.	.	.	.	.	75	484	.	1
28	VP	28	501	500	500	.	1	922	.	130	500	.	1
29	VP	29	-519	518	.	.	.	.	.	129	519	.	1
30	VP	30	-522	521	.	.	.	.	.	97	520	.	1
31	VP	31	-516	515	.	.	.	.	.	78	.	.	.
32	VP	32	-522	521	.	.	.	.	.	75	522	.	1
33	VP	33	-559	558	.	.	.	.	.	63	558	.	1
34	VP	34	-600	598	.	.	.	.	.	173	598	.	1
35	VP	35	-614	612	611	-1	1	922	.	43	611	.	1
36	VP	36	-661	659	.	.	.	.	.	43	657	.	2
37	VP	37	-671	669	.	.	.	.	.	164	670	.	1
38	VP	38	-670	668	.	.	.	.	.	83	669	.	1
39	VP	39	710	708	.	.	.	.	.	92	710	.	1
40	VP	40	745	743	.	.	.	.	.	112	744	.	1
41	VP	41	802	800	.	.	.	.	.	106	802	.	1
42	VP	42	922	920	920	.	2	963	.	104	922	2	1
43	VP	44	931	929	929	.	2	935	.	106	931	2	1
44	VP	45	960	958	958	.	2	960	.	106	957	-1	1

RIC DATA: 93ZE33D37D #1 SCANS 1 TO 1194
05/25/93 21:56:00 CALI: 93ZE33D37D #3
SAMPLE: CLP,1187,,93ZE33D37D,L,W,V,EPA 1:20
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
RANGE: G 1,1194 LABEL: N 2, 4.0 QUAN: A 2, 4.0 J 0 BASE: U 20, 3



Quantitation Report File: 93ZE33D37D

Data: 93ZE33D37D.TI
05/25/93 21:56:00
Sample: CLP,1187,,93ZE33D37D,L,W,V,EPA 1:20
Conds.: 45' (3 MIN) TO 220' @ 8'/MIN
Formula: Instrument: INCOS1 Weight: 0.000
Submitted by: Analyst: ZAR Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C040	CARBON DISULFIDE	
15	C043	ACRYLONITRILE	
16	C045	1,1-DICHLOROETHENE	
17	C050	1,1-DICHLOROETHANE	
18	C053	1,2-DICHLOROETHENE (TOTAL)	
19	C060	CHLOROFORM	
20	C065	1,2-DICHLOROETHANE	
21	C110	2-BUTANONE	
22	C115	1,1,1-TRICHLOROETHANE	
23	C120	CARBON TETRACHLORIDE	
24	C125	VINYL ACETATE	
25	C130	BROMODICHLOROMETHANE	
26	C140	1,2-DICHLOROPROPANE	
27	C143	CIS-1,3-DICHLOROPROPENE	
28	C150	TRICHLOROETHENE	
29	C155	DIBROMOCHLOROMETHANE	
30	C160	1,1,2-TRICHLOROETHANE	
31	C165	BENZENE	
32	C172	TRANS-1,3-DICHLOROPROPENE	
33	C175	2-CHLOROETHYLVINYL ETHER	
34	C180	BROMOFORM	
35	C205	4-METHYL-2-PENTANONE	
36	C210	2-HEXANONE	
37	C220	TETRACHLOROETHENE	
38	C225	1,1,2,2-TETRACHLOROETHANE	
39	C230	TOLUENE	
40	C235	CHLOROBENZENE	
41	C240	ETHYL BENZENE	
42	C245	STYRENE	
43	C260	M-XYLENE	
44	C270	O-&/OR P-XYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	286	9:32	1	1.000	A BB	129527.	10.000 UG/L	11.79
2	77	557	18:34	2	1.000	A BB	349133.	10.000 UG/L	11.79
3	55	677	22:34	3	1.000	A BB	235457.	10.000 UG/L	11.79
4	65	367	12:14	1	1.283	A BB	147803.	9.523 UG/L	11.23
5	84	511	17:02	2	0.917	A BB	431200.	9.460 UG/L	11.15
6	98	704	23:28	3	1.040	A BB	460700.	8.820 UG/L	10.40
7	50	56	1:52	1	0.196	A BB	52.	0.005 UG/L	0.01
8	NOT	FOUND							
9	NOT	FOUND							
10	NOT	FOUND							
11	84	191	6:22	1	0.668	A BB	105731.	7.642 UG/L	9.01
12	43	209	6:58	1	0.731	A BV	5791.	4.919 UG/L	5.80
13	56	213	7:06	1	0.745	A BB	35.	0.972 UG/L	1.15
14	76	239	7:58	1	0.836	A BB	1484.	0.034 UG/L	0.04
15	NOT	FOUND							
16	96	272	9:04	1	0.951	A BB	431.	0.021 UG/L	0.02
17	NOT	FOUND							
18	96	333	11:06	1	1.164	A BB	253.	0.011 UG/L	0.01
19	83	348	11:36	1	1.217	A BB	1297.	0.031 UG/L	0.04
20	62	369	12:18	1	1.290	A BB	396.	0.022 UG/L	0.03
21	72	367	12:14	2	0.659	A BB	338.	0.680 UG/L	0.80
22	97	407	13:34	2	0.731	A BB	741.	0.022 UG/L	0.03
23	NOT	FOUND							
24	43	424	14:08	2	0.761	A VB	221.	0.101 UG/L	0.12
25	83	434	14:28	2	0.779	A BB	352.	0.012 UG/L	0.01
26	63	476	15:52	2	0.855	A BB	83.	0.004 UG/L	0.00
27	75	484	16:08	2	0.869	A BB	257.	0.014 UG/L	0.02
28	130	500	16:40	2	0.898	A BB	4883.	0.145 UG/L	0.17
29	129	519	17:18	2	0.932	A BB	400.	0.017 UG/L	0.02
30	97	520	17:20	2	0.934	A BB	77.	0.006 UG/L	0.01
31	NOT	FOUND							
32	75	522	17:24	2	0.937	A BB	348.	0.008 UG/L	0.01
~~33~~	~~63~~	~~558~~	~~18:36~~	~~2~~	~~1.002~~	~~A BB~~	~~4302.~~	~~11.339 UG/L~~	~~13.37~~
34	173	598	19:56	2	1.074	A BB	288.	0.018 UG/L	0.02
35	43	611	20:22	3	0.903	A BB	2702.	0.287 UG/L	0.34
36	43	657	21:54	3	0.970	A*BB	3117.	0.542 UG/L	0.64
37	164	670	22:20	3	0.990	A BB	707.	0.019 UG/L	0.02
38	83	669	22:18	3	0.988	A BB	489.	0.040 UG/L	0.05
39	92	710	23:40	3	1.049	A BB	2015.	0.043 UG/L	0.05
40	112	744	24:48	3	1.099	A BB	905.	0.014 UG/L	0.02
41	106	802	26:44	3	1.185	A BB	348.	0.011 UG/L	0.01
42	104	922	30:44	3	1.362	A BV	1052.	0.021 UG/L	0.03
43	106	931	31:02	3	1.375	A VB	408.	0.012 UG/L	0.01
44	106	957	31:54	3	1.414	A BV	336.	0.010 UG/L	0.01

ZR 6-14-93

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:30	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	18:32	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	22:32	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:12	1.00	1.284	1.00	9.52	10.00	1.141	1.198	0.95
5	17:00	1.00	0.917	1.00	9.46	10.00	1.235	1.306	0.95
6	23:24	1.00	1.038	1.00	8.82	10.00	1.957	2.218	0.88
7	1:44	1.08	0.182	1.07	0.01	30.00	0.000	0.770	0.00
8	2:48		0.295						
9	3:06		0.326						
10	4:12		0.442						

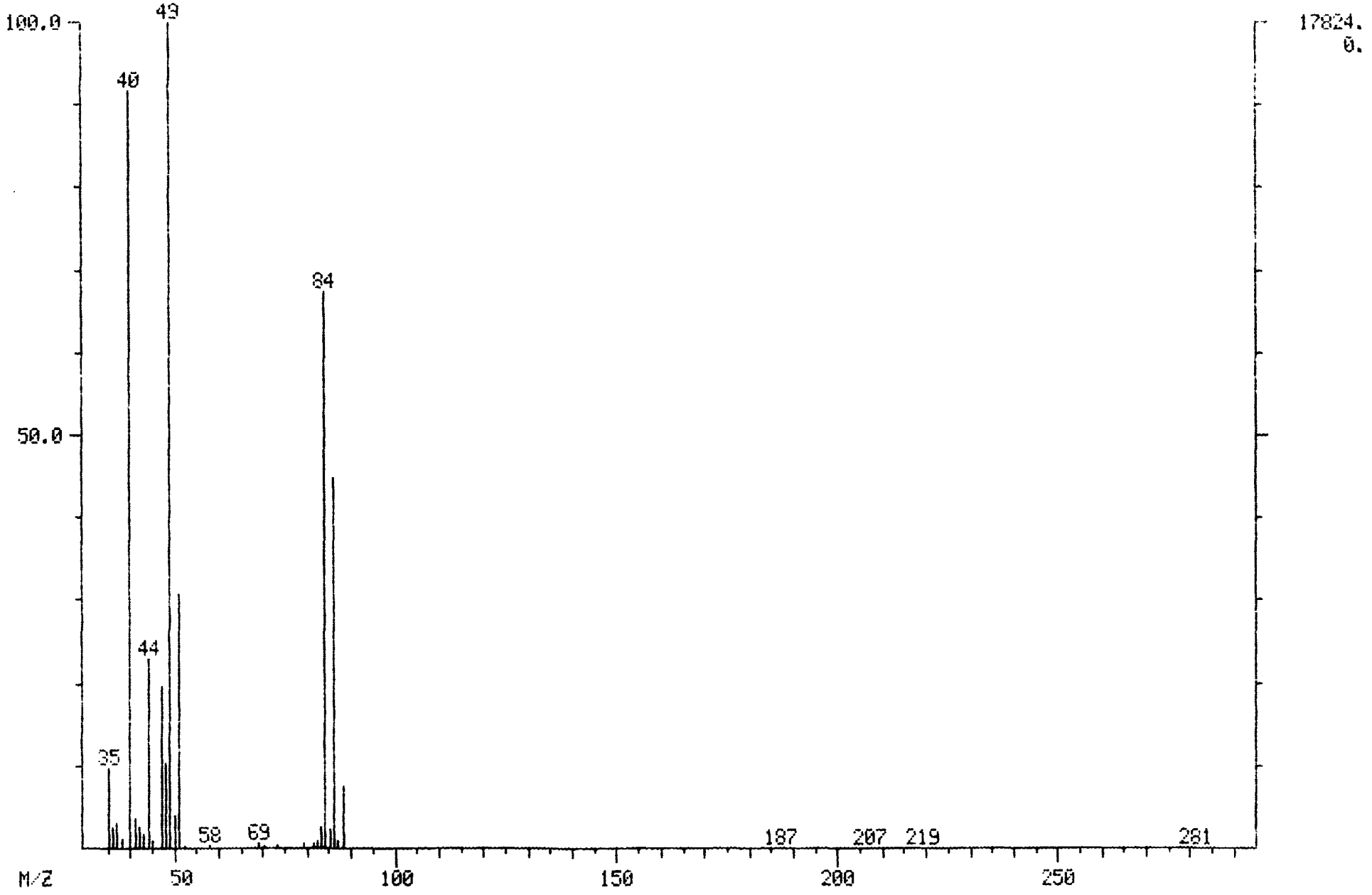
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	6:20	1.01	0.667	1.00	7.64	15.00	0.544	1.068	0.51
12	6:54	1.01	0.726	1.01	4.92	75.00	0.006	0.091	0.07
13	7:02	1.01	0.740	1.01	0.97	75.00	0.000	0.003	0.01
14	7:50	1.02	0.825	1.01	0.03	15.00	0.008	3.365	0.00
15	7:40		0.807						
16	9:02	1.00	0.951	1.00	0.02	15.00	0.002	1.622	0.00
17	10:16		1.081						
18	11:00	1.01	1.158	1.01	0.01	15.00	0.001	1.719	0.00
19	11:34	1.00	1.218	1.00	0.03	15.00	0.007	3.282	0.00
20	12:18	1.00	1.295	1.00	0.02	15.00	0.002	1.385	0.00
21	12:12	1.00	0.658	1.00	0.68	75.00	0.000	0.014	0.01
22	13:32	1.00	0.730	1.00	0.02	15.00	0.001	0.944	0.00
23	13:32		0.730						
24	14:06	1.00	0.761	1.00	0.10	30.00	0.000	0.063	0.00
25	14:28	1.00	0.781	1.00	0.01	15.00	0.001	0.816	0.00
26	15:48	1.00	0.853	1.00	0.00	15.00	0.000	0.637	0.00
27	16:04	1.00	0.867	1.00	0.01	24.30	0.000	0.510	0.00
28	16:38	1.00	0.897	1.00	0.15	15.00	0.009	0.961	0.01
29	17:14	1.00	0.930	1.00	0.02	15.00	0.001	0.657	0.00
30	17:20	1.00	0.935	1.00	0.01	15.00	0.000	0.367	0.00
31	17:08		0.924						
32	17:20	1.00	0.935	1.00	0.01	5.70	0.002	1.305	0.00
33	18:32	1.00	1.000	1.00	11.34	15.00	0.008	0.011	0.76
34	19:54	1.00	1.074	1.00	0.02	15.00	0.001	0.447	0.00
35	20:22	1.00	0.904	1.00	0.29	30.00	0.004	0.400	0.01
36	21:56	1.00	0.973	1.00	0.54	30.00	0.004	0.244	0.02
37	22:16	1.00	0.988	1.00	0.02	15.00	0.002	1.620	0.00
38	22:14	1.00	0.987	1.00	0.04	15.00	0.001	0.519	0.00
39	23:36	1.00	1.047	1.00	0.04	15.00	0.006	1.973	0.00
40	24:44	1.00	1.098	1.00	0.01	15.00	0.003	2.671	0.00
41	26:40	1.00	1.183	1.00	0.01	15.00	0.001	1.349	0.00
42	30:36	1.00	1.358	1.00	0.02	15.00	0.003	2.097	0.00
43	30:52	1.01	1.370	1.00	0.01	15.00	0.001	1.465	0.00
44	31:50	1.00	1.413	1.00	0.01	15.00	0.001	1.363	0.00

MASS SPECTRUM
05/25/93 21:56:00 + 6:22
SAMPLE: CLP,1187,,93ZE33D37D,L,W,V,EPA 1:20
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
TEMP: 71 DEG. C

DATA: 93ZE33D37D #191
CALI: 93ZE33D37D #3

BASE M/Z: 49
RIC: 77056.

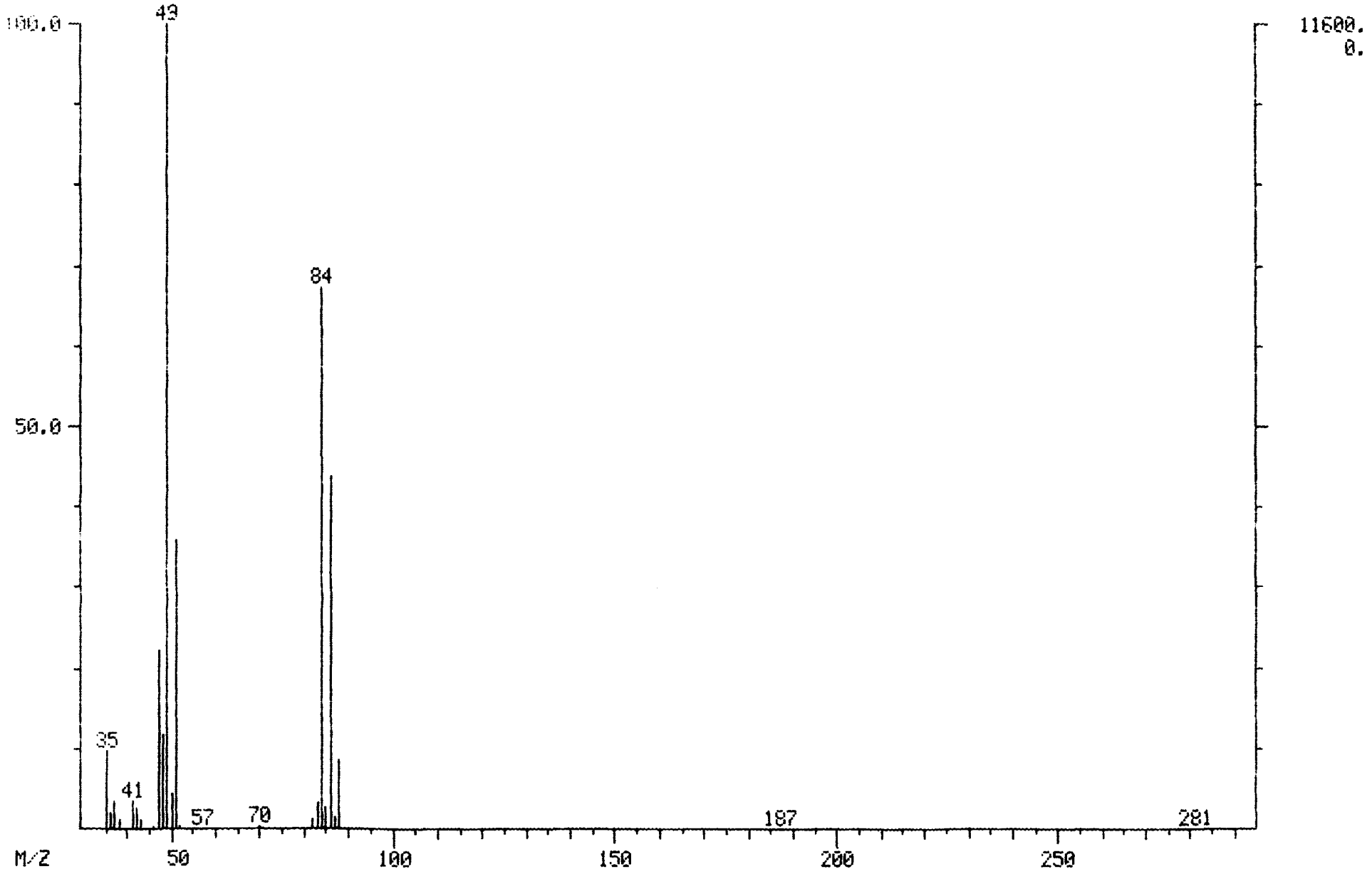
NAME: C030 METHYLENE CHLORIDE



MASS SPECTRUM
05/25/93 21:56:00 + 6:22
SAMPLE: CLP,1187,,93ZE33D37D,L,W,V,EPA 1:20
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
TEMP: 71 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C030 METHYLENE CHLORIDE

DATA: 93ZE33D37D #191
CALI: 93ZE33D37D #3

BASE M/Z: 49
RIC: 37888.

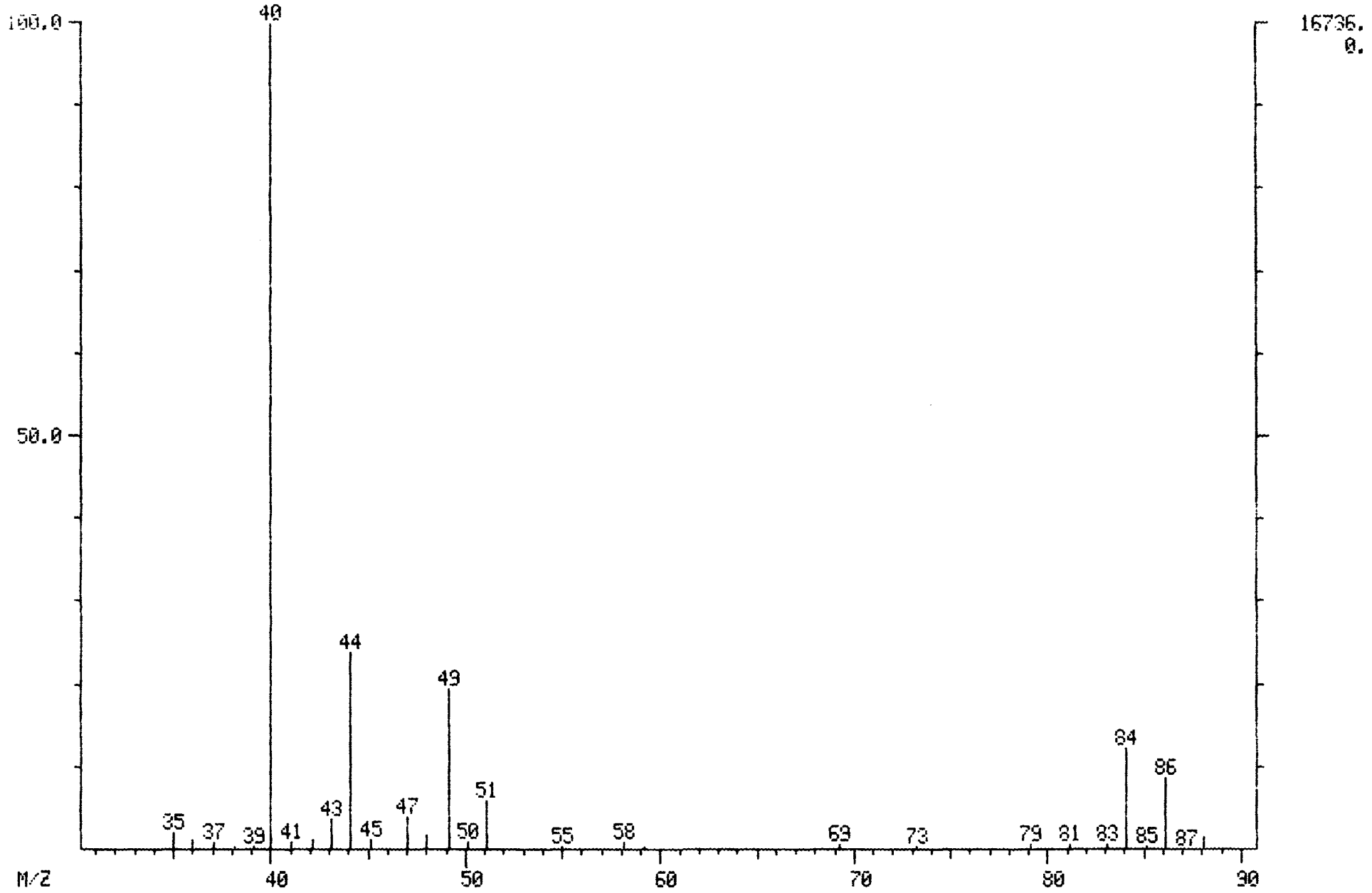


MASS SPECTRUM
05/25/93 21:56:00 + 6:58
SAMPLE: CLP,1187,,93ZE33D37D,L,W,V,EPA 1:20
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
TEMP: 76 DEG. C

DATA: 93ZE33D37D #209
CALI: 93ZE33D37D #3

BASE M/Z: 40
RIC: 32192.

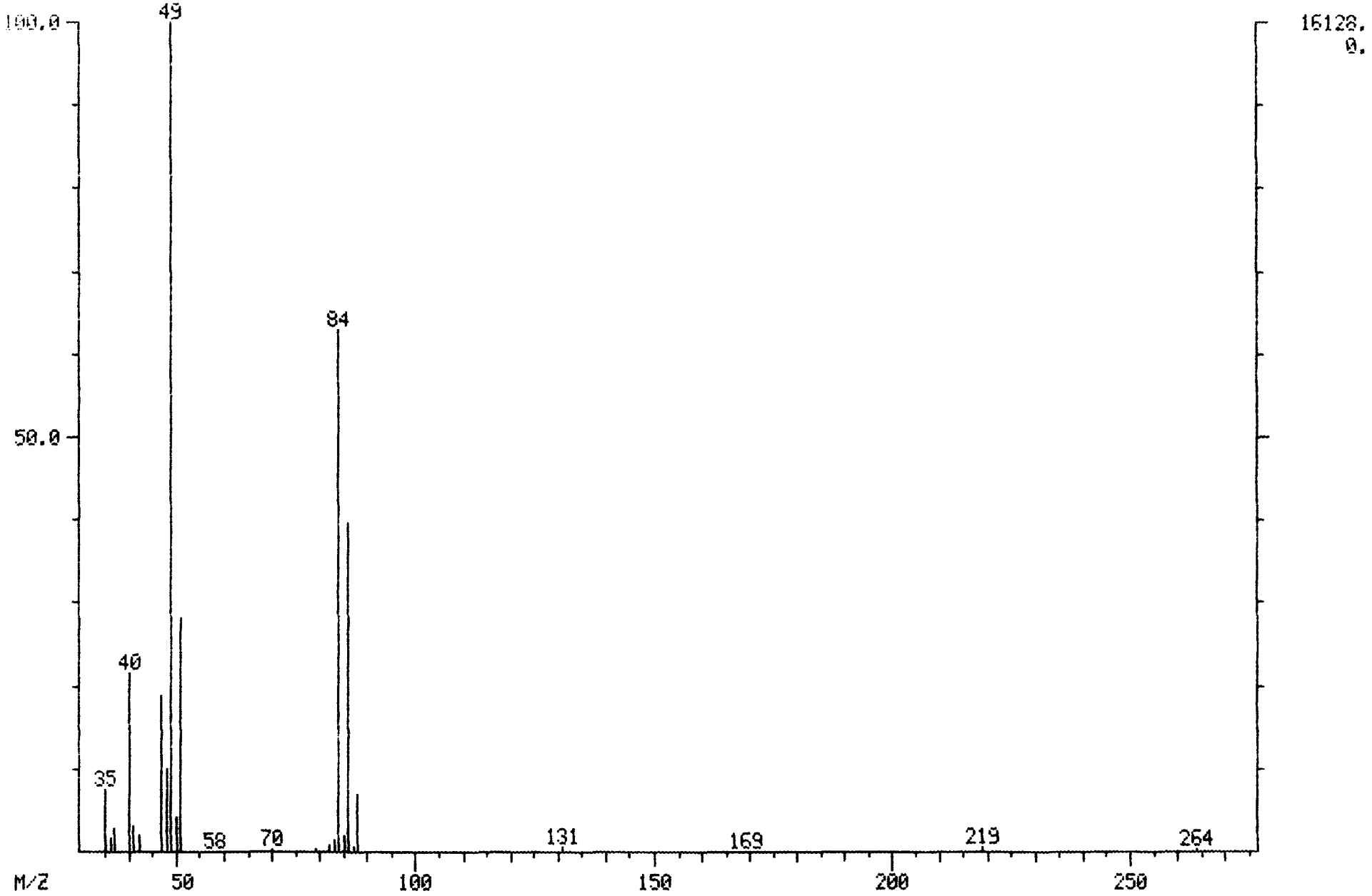
NAME: C035 ACETONE



MASS SPECTRUM
05/25/93 10:49:00 + 6:14
SAMPLE: CLP,1187,,CC0525,L,W,,V,CC
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
TEMP: 70 DEG. C
ENHANCED (S 156 2N 0T)

DATA: CC0525 #187
CALI: CC0525 #3

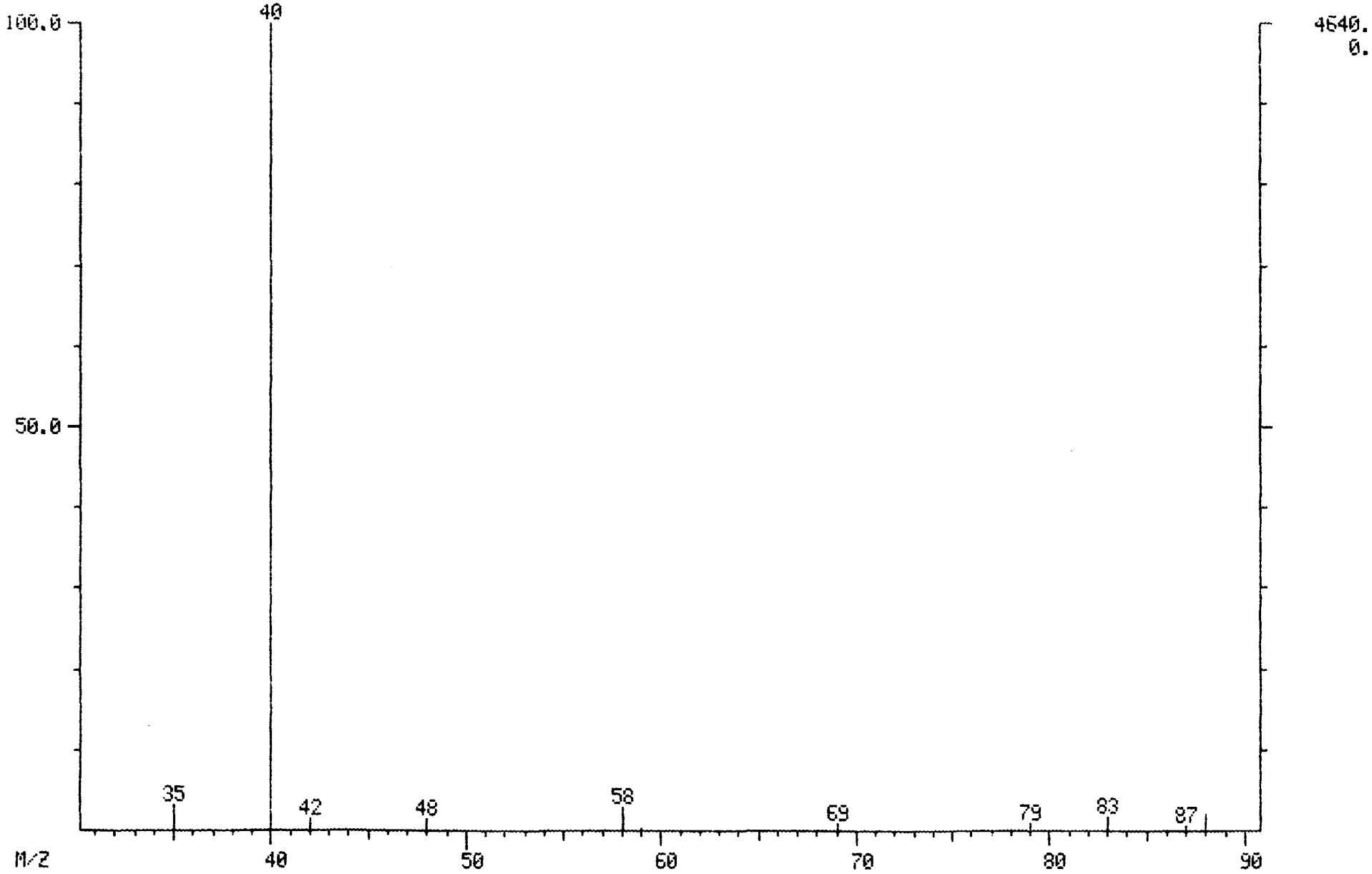
BASE M/Z: 49
RIC: 51008.



MASS SPECTRUM
05/25/93 21:56:00 + 6:58
SAMPLE: CLP,1187,,93ZE33D37D,L,W,V,EPA 1:20
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
TEMP: 76 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C035 ACETONE

DATA: 93ZE33D37D #209
CALI: 93ZE33D37D #3

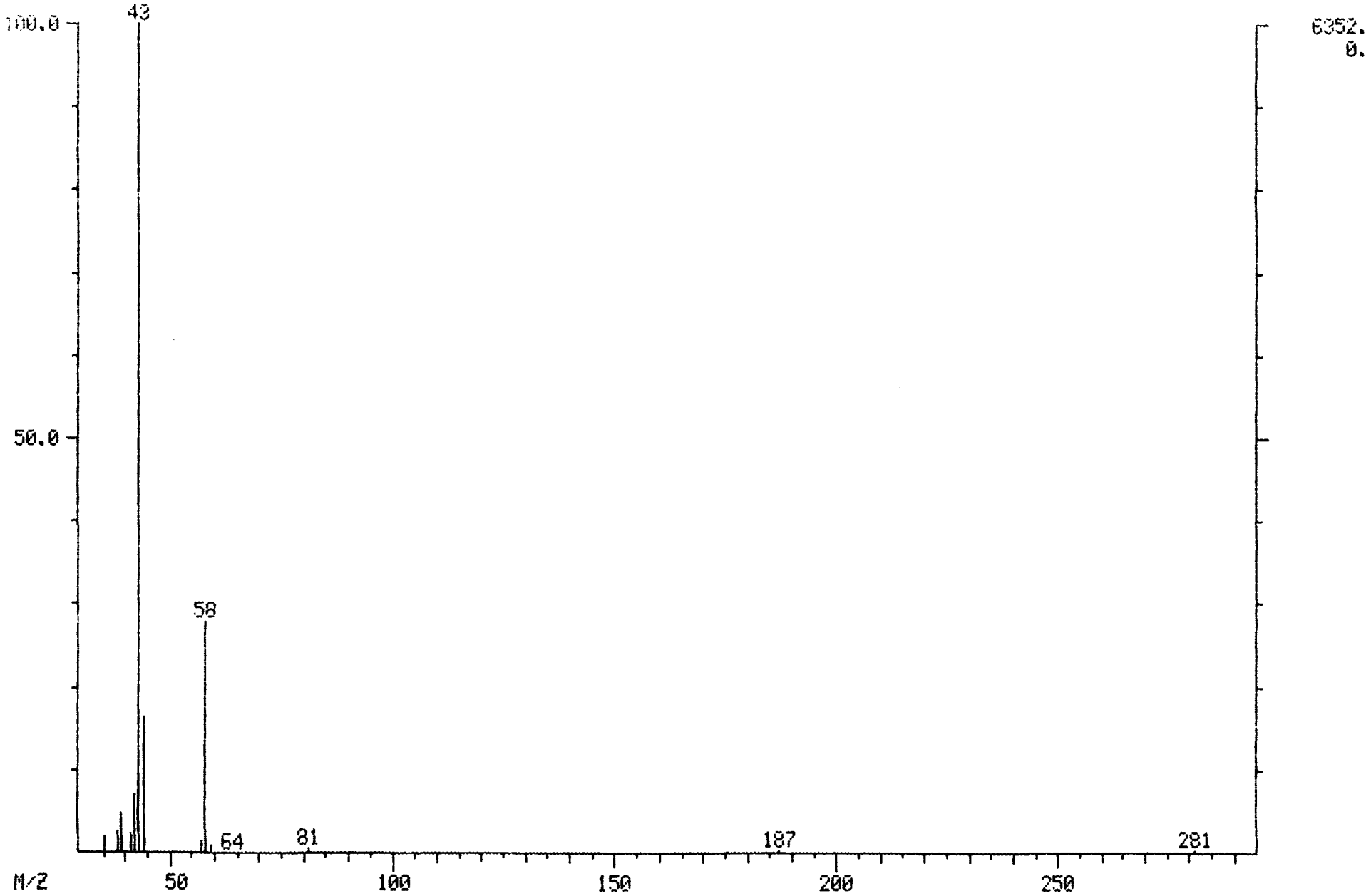
BASE M/Z: 40
RIC: 5360.



MASS SPECTRUM
05/25/93 10:49:00 + 6:48
SAMPLE: CLP,1187,,CC0525,L,W,,V,CC
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
TEMP: 74 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: CC0525 #204
CALI: CC0525 #3

BASE M/Z: 43
RIC: 10528.



QUANT REPORT

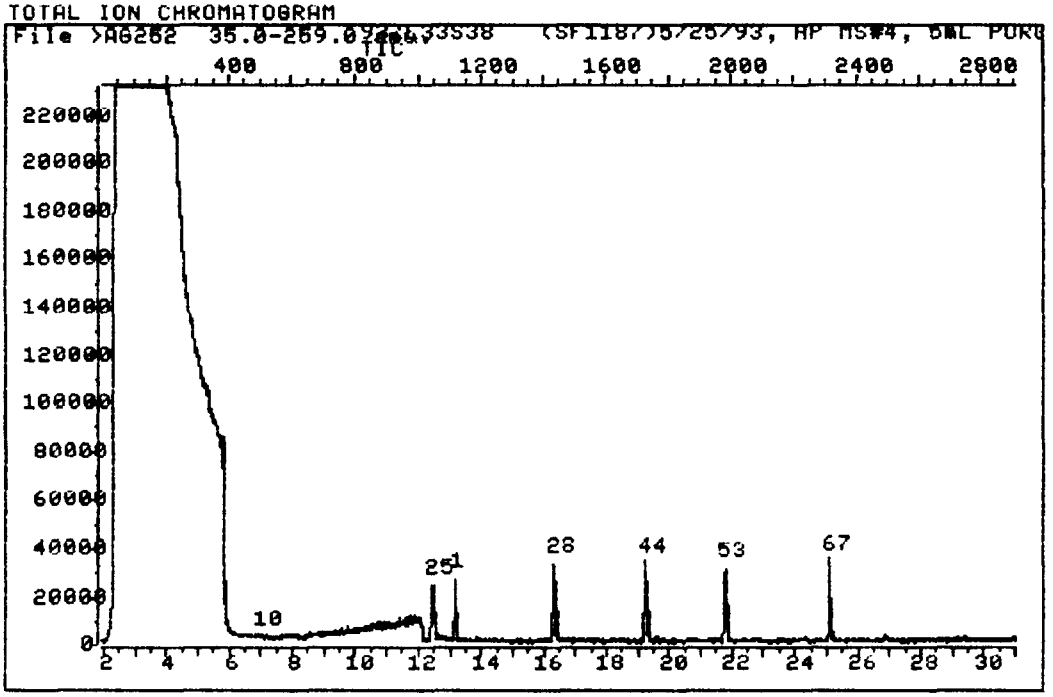
Operator ID: TONY
Quant Rev: 7
Quant Time: 930526 08:33
Output File: ^AG252::D5
Injected at: 930525 22:22
Data File: >AG252::D4
Dilution Factor: 1.00000
Name: 93ZE33S38 (SF1187)
Instrument ID: HP MS#4
Misc: 5/25/93, HP MS#4, 5mL PURGE

ID File: IDAG08::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54
Last Qcal Time: <none>

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.13	96.0	55141	10.00	ug/L	98
10)	Acetone	6.97	43.0	5137	17.11	ug/L	87
25)	BENZENE-D6	12.42	84.0	53707	10.24	ug/L	99
28)	*TOLUENE-D8	16.30	98.0	53077	10.00	ug/L	94
44)	*CHLOROBENZENE-D5	19.22	117.0	42940	10.00	ug/L	96
53)	p-BROMOFLUOROBENZENE	21.77	174.0	19301	9.72	ug/L	92
67)	1,2-DICHLOROBENZENE-D4	25.06	152.0	20385	9.91	ug/L	92

* Compound is ISTD

TOTAL ION CHROMATOGRAM

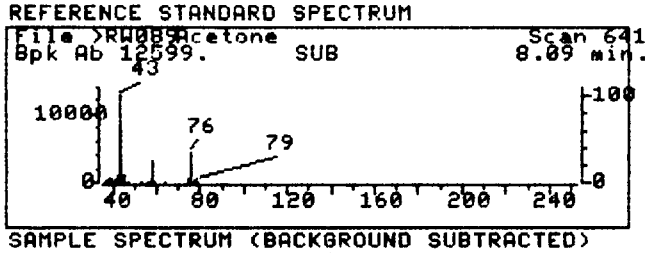


Data File: >AG252::D4 Quant Output File: ^AG252::D5
Name: 93ZE33S38 (SF1187) Instrument ID: HP MS#4
Misc: 5/25/93, HP MS#4, 5mL PURGE

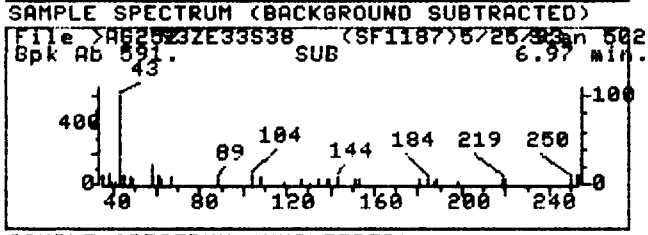
Id File: IDAG08::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54 Last Qcal Time: <none>

Operator ID: TONY
Quant Time : 930526 08:33
Injected at: 930525 22:22

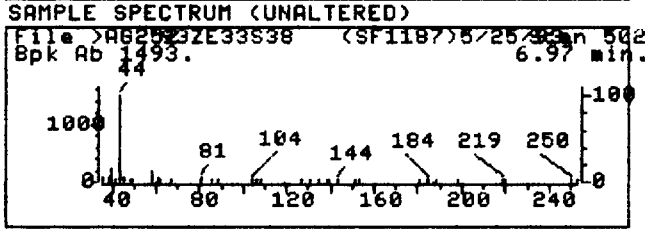
REFERENCE STANDARD SPECTRUM

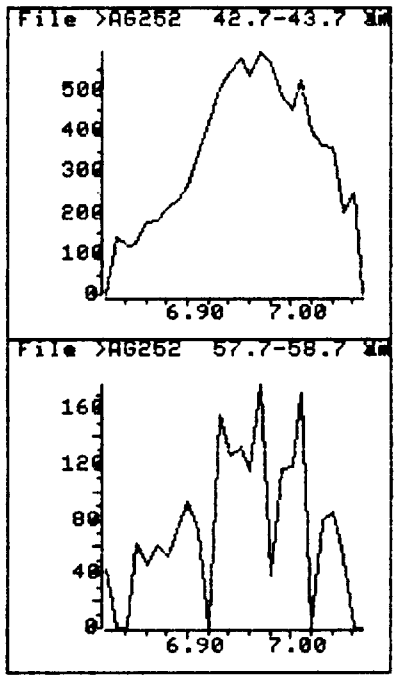


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)





Data File: >AG252::D4 Quant Output File: ^AG252::D5
Name: 93ZE33S38 (SF1187) Instrument ID: HP MS#4
Misc: 5/25/93, HP MS#4, 5mL PURGE
Quant Time: 930526 08:33 Quant ID File: IDAG08::QT
Injected at: 930525 22:22 Last Calibration: 930525 17:54
Last Qcal Time: <none>

Compound No : 10
Compound Name : Acetone
Scan Number : 502
Retention Time: 6.97 min.
Quant Ion : 43.0
Area : 5137
Concentration : 17.11 ug/L
q-value : 87

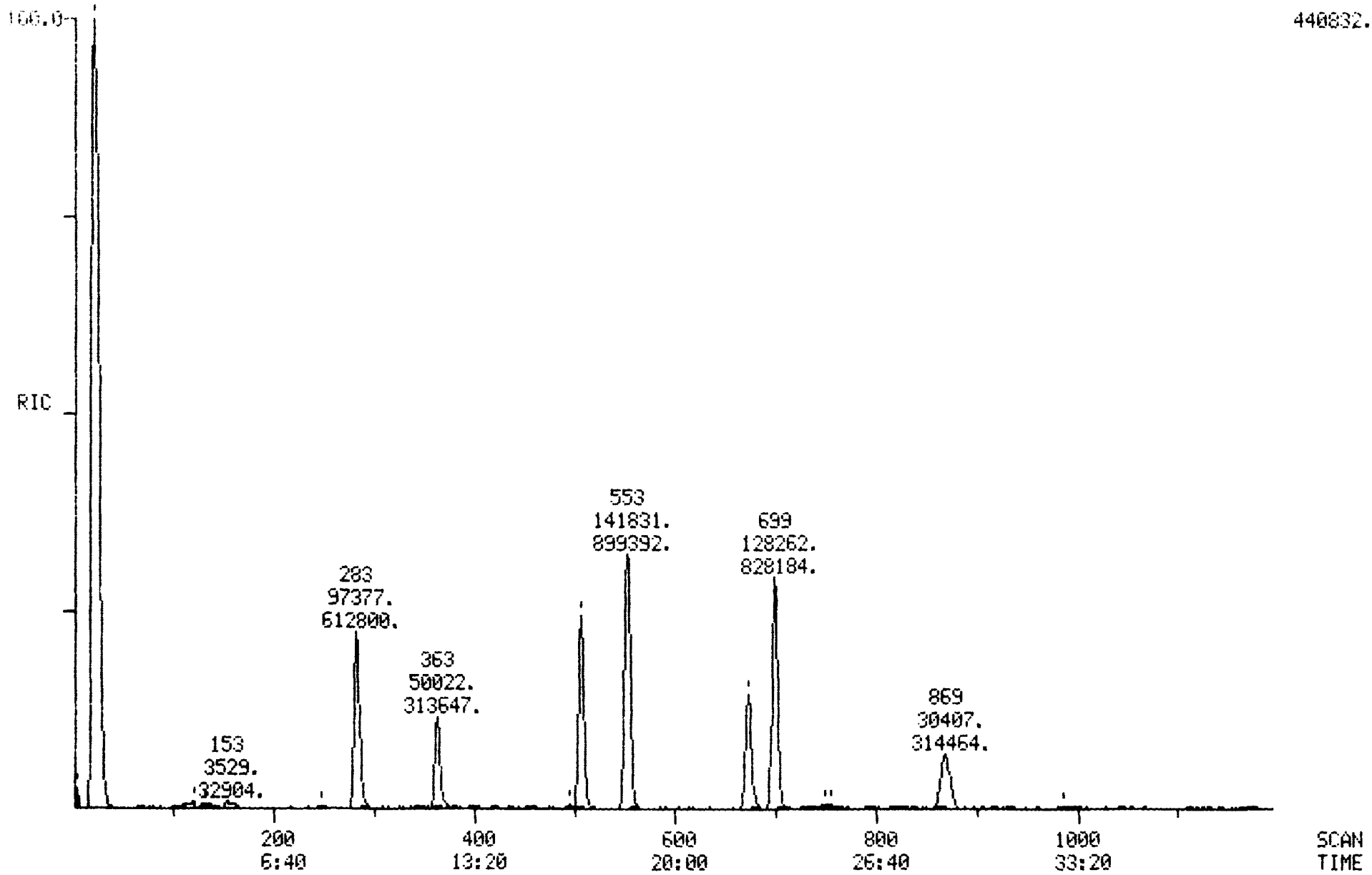
PROCEDURE: TCA DIAGNOSTIC REPORT 5/26/93 16:30:00
DATA FILE: 93ZE33D38
REFERENCE: VP11
NAME LIST: VP INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: VP_IS

< ---- STANDARDS ----- >				< --- PLUS UNKNOWNS --- >				< - LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	3	1	0	6	6	1	0	VP_IS/VP_SURR
3	3	1	0	12	4	1	0	VP_IS/VP_CMPDS1
3	3	1	0	12	3	1	0	VP_IS/VP_CMPDS2
3	3	1	0	12	3	1	0	VP_IS/VP_CMPDS3
3	3	1	0	14	3	1	0	VP_IS/VP_CMPDS4

44 COMPOUNDS PROCESSED, 7 FOUND

< COMPOUND >			< ---------- SEARCH ---------- >					< SAT >		< ------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	VP	1	282	283	283	.	1	972	.	128	283	.	1
2	VP	2	552	553	553	.	1	996	.	77	553	.	1
3	VP	3	672	673	673	.	1	995	.	55	673	.	1
4	VP	4	362	363	363	.	1	969	.	65	363	.	1
5	VP	5	506	507	507	.	1	972	.	84	507	.	1
6	VP	6	698	699	699	.	1	994	.	98	699	.	1
7	VP	7	-52	53	.	.	.	.	.	50	.	.	.
8	VP	8	-81	82	.	.	.	.	.	94	.	.	.
9	VP	9	-90	91	.	.	.	.	.	62	.	.	.
10	VP	10	-123	124	.	.	.	.	.	64	.	.	.
11	VP	11	-186	187	.	.	.	.	.	84	189	.	1
12	VP	12	-204	205	.	.	.	.	.	43	207	.	1
13	VP	13	-211	212	.	.	.	.	.	56	.	.	.
14	VP	14	233	234	234	.	1	915	.	76	234	.	1
15	VP	15	-228	229	.	.	.	.	.	53	.	.	.
16	VP	16	-266	267	.	.	.	.	.	96	268	.	1
17	VP	17	-303	304	.	.	.	.	.	63	.	.	.
18	VP	18	-327	328	.	.	.	.	.	96	.	.	.
19	VP	19	-343	344	.	.	.	.	.	83	345	.	1
20	VP	20	-365	366	.	.	.	.	.	62	.	.	.
21	VP	21	363	364	.	.	.	.	.	72	.	.	.
22	VP	22	-402	403	.	.	.	.	.	97	403	.	1
23	VP	23	-402	403	.	.	.	.	.	117	.	.	.
24	VP	24	-419	420	.	.	.	.	.	43	419	.	1
25	VP	25	-430	431	.	.	.	.	.	83	.	.	.
26	VP	26	-470	471	.	.	.	.	.	63	.	.	.
27	VP	27	-478	479	.	.	.	.	.	75	.	.	.
28	VP	28	-496	497	.	.	.	.	.	130	496	.	1
29	VP	29	-513	514	.	.	.	.	.	129	.	.	.
30	VP	30	-516	517	.	.	.	.	.	97	.	.	.
31	VP	31	-510	511	.	.	.	.	.	78	.	.	.
32	VP	32	-516	517	.	.	.	.	.	75	.	.	.
33	VP	33	-553	554	.	.	.	.	.	63	553	.	1
34	VP	34	-593	594	.	.	.	.	.	173	.	.	.
35	VP	35	609	610	.	.	.	.	.	43	.	.	.
36	VP	36	-653	654	.	.	.	.	.	43	655	.	1
37	VP	37	-663	664	.	.	.	.	.	164	.	.	.
38	VP	38	-662	663	.	.	.	.	.	83	.	.	.
39	VP	39	703	704	.	.	.	.	.	92	705	.	1
40	VP	40	-737	738	.	.	.	.	.	112	.	.	.
41	VP	41	-794	795	.	.	.	.	.	106	.	.	.
42	VP	42	-909	910	.	.	.	.	.	104	912	.	2
43	VP	44	917	918	.	.	.	.	.	106	.	.	.
44	VP	45	944	945	.	.	.	.	.	106	.	.	.

RIC DATA: 93ZE33D38 #1 SCANS 1 TO 1194
05/26/93 15:48:00 CALI: 93ZE33D38 #3
SAMPLE: CLP,1187,,93ZE33D38,L,W,,V,EPA
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
RANGE: G 1,1194 LABEL: N 2, 4.0 QUAN: A 2, 4.0 J 0 BASE: U 20, 3



Quantitation Report File: 93ZE33D38

Data: 93ZE33D38.TI
05/26/93 15:48:00
Sample: CLP,1187,,93ZE33D38,L,W,,V,EPA
Conds.: 45' (3 MIN) TO 220' @ 8'/MIN
Formula: Instrument: INCOS1 Weight: 0.000
Submitted by: Analyst: ZAR Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C040	CARBON DISULFIDE	
15	C043	ACRYLONITRILE	
16	C045	1,1-DICHLOROETHENE	
17	C050	1,1-DICHLOROETHANE	
18	C053	1,2-DICHLOROETHENE (TOTAL)	
19	C060	CHLOROFORM	
20	C065	1,2-DICHLOROETHANE	
21	C110	2-BUTANONE	
22	C115	1,1,1-TRICHLOROETHANE	
23	C120	CARBON TETRACHLORIDE	
24	C125	VINYL ACETATE	
25	C130	BROMODICHLOROMETHANE	
26	C140	1,2-DICHLOROPROPANE	
27	C143	CIS-1,3-DICHLOROPROPENE	
28	C150	TRICHLOROETHENE	
29	C155	DIBROMOCHLOROMETHANE	
30	C160	1,1,2-TRICHLOROETHANE	
31	C165	BENZENE	
32	C172	TRANS-1,3-DICHLOROPROPENE	
33	C175	2-CHLOROETHYLVINYL ETHER	
34	C180	BROMOFORM	
35	C205	4-METHYL-2-PENTANONE	
36	C210	2-HEXANONE	
37	C220	TETRACHLOROETHENE	
38	C225	1,1,2,2-TETRACHLOROETHANE	
39	C230	TOLUENE	
40	C235	CHLOROBENZENE	
41	C240	ETHYL BENZENE	
42	C245	STYRENE	
43	C260	M-XYLENE	
44	C270	O-&/OR P-XYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	283	9:26	1	1.000	A BB	97853.	10.000 UG/L	13.22
2	77	553	18:26	2	1.000	A BB	249046.	10.000 UG/L	13.22
3	55	673	22:26	3	1.000	A BB	155901	10.000 UG/L	13.22
4	65	363	12:06	1	1.283	A BB	97865.	8.963 UG/L	11.85
5	84	507	16:54	2	0.917	A BB	303548.	9.834 UG/L	13.00
6	98	699	23:18	3	1.039	A BB	323783.	10.217 UG/L	13.51
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	84	189	6:18	1	0.668	A BB	306.	0.030 UG/L	0.04
12	43	207	6:54	1	0.731	A VB	1314.	1.286 UG/L	1.70
13	NOT FOUND								
14	76	234	7:48	1	0.827	A BB	90.	0.003 UG/L	0.00
15	NOT FOUND								
16	96	268	8:56	1	0.947	A BB	60.	0.004 UG/L	0.01
17	NOT FOUND								
18	NOT FOUND								
19	83	345	11:30	1	1.219	A BB	245.	0.008 UG/L	0.01
20	NOT FOUND								
21	NOT FOUND								
22	97	403	13:26	2	0.729	A BB	621.	0.026 UG/L	0.03
23	NOT FOUND								
24	43	419	13:58	2	0.758	A BV	732.	0.366 UG/L	0.48
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	130	496	16:32	2	0.897	A BB	2329.	0.092 UG/L	0.12
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
~~33~~	~~63~~	~~553~~	~~18:26~~	~~2~~	~~1.000~~	~~A BB~~	~~2790.~~	~~14.674 UG/L~~	~~19.40~~
34	NOT FOUND								
35	NOT FOUND								
36	43	655	21:50	3	0.973	A VB	474.	0.103 UG/L	0.14
37	NOT FOUND								
38	NOT FOUND								
39	92	705	23:30	3	1.048	A BB	2909.	0.097 UG/L	0.13
40	NOT FOUND								
41	NOT FOUND								
42	104	912	30:24	3	1.355	A*BB	111.	0.003 UG/L	0.00
43	NOT FOUND								
44	NOT FOUND								

ZR 6-14-93

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:26	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	18:26	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	22:24	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:06	1.00	1.283	1.00	8.96	10.00	1.000	1.116	0.90
5	16:54	1.00	0.917	1.00	9.83	10.00	1.219	1.239	0.98
6	23:18	1.00	1.040	1.00	10.22	10.00	2.077	2.033	1.02
7	1:46		0.187						
8	2:44		0.290						
9	3:04		0.325						
10	4:08		0.438						

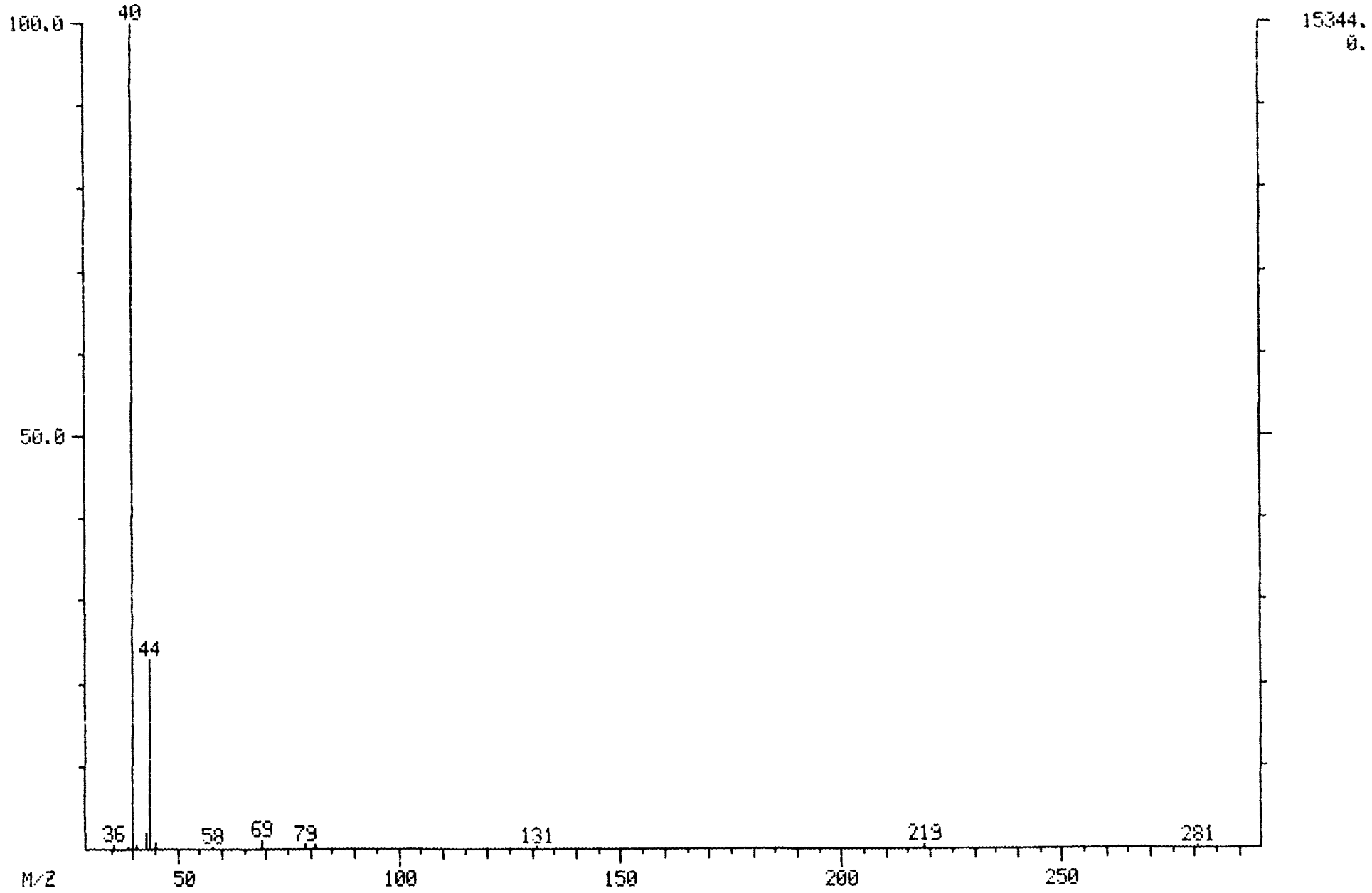
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	6:16	1.01	0.664	1.01	0.03	15.00	0.002	1.056	0.00
12	6:50	1.01	0.724	1.01	1.29	75.00	0.002	0.104	0.02
13	7:04		0.749						
14	7:46	1.00	0.823	1.00	0.00	15.00	0.001	3.360	0.00
15	7:36		0.806						
16	8:56	1.00	0.947	1.00	0.00	15.00	0.000	1.586	0.00
17	10:10		1.078						
18	10:56		1.159						
19	11:28	1.00	1.216	1.00	0.01	15.00	0.002	3.279	0.00
20	12:12		1.293						
21	12:08		0.658						
22	13:26	1.00	0.729	1.00	0.03	15.00	0.002	0.965	0.00
23	13:26		0.729						
24	14:02	1.00	0.761	1.00	0.37	30.00	0.001	0.080	0.01
25	14:22		0.779						
26	15:42		0.852						
27	15:58		0.866						
28	16:32	1.00	0.897	1.00	0.09	15.00	0.006	1.012	0.01
29	17:08		0.929						
30	17:14		0.935						
31	17:02		0.924						
32	17:14		0.935						
33	18:26	1.00	1.000	1.00	14.67	15.00	0.007	0.008	0.98
34	19:48		1.074						
35	20:16		0.905						
36	21:50	1.00	0.975	1.00	0.10	30.00	0.001	0.296	0.00
37	22:10		0.990						
38	22:06		0.987						
39	23:28	1.00	1.048	1.00	0.10	15.00	0.012	1.926	0.01
40	24:36		1.098						
41	26:30		1.183						
42	30:22	1.00	1.356	1.00	0.00	15.00	0.000	2.194	0.00
43	30:38		1.368						
44	31:34		1.409						

MASS SPECTRUM
05/26/93 15:48:00 + 6:54
SAMPLE: CLP,1187,,93ZE33D38,L,W,,V,EPA
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
TEMP: 75 DEG. C

DATA: 93ZE33D38 #207
CALI: 93ZE33D38 #3

BASE M/Z: 40
RIC: 20064.

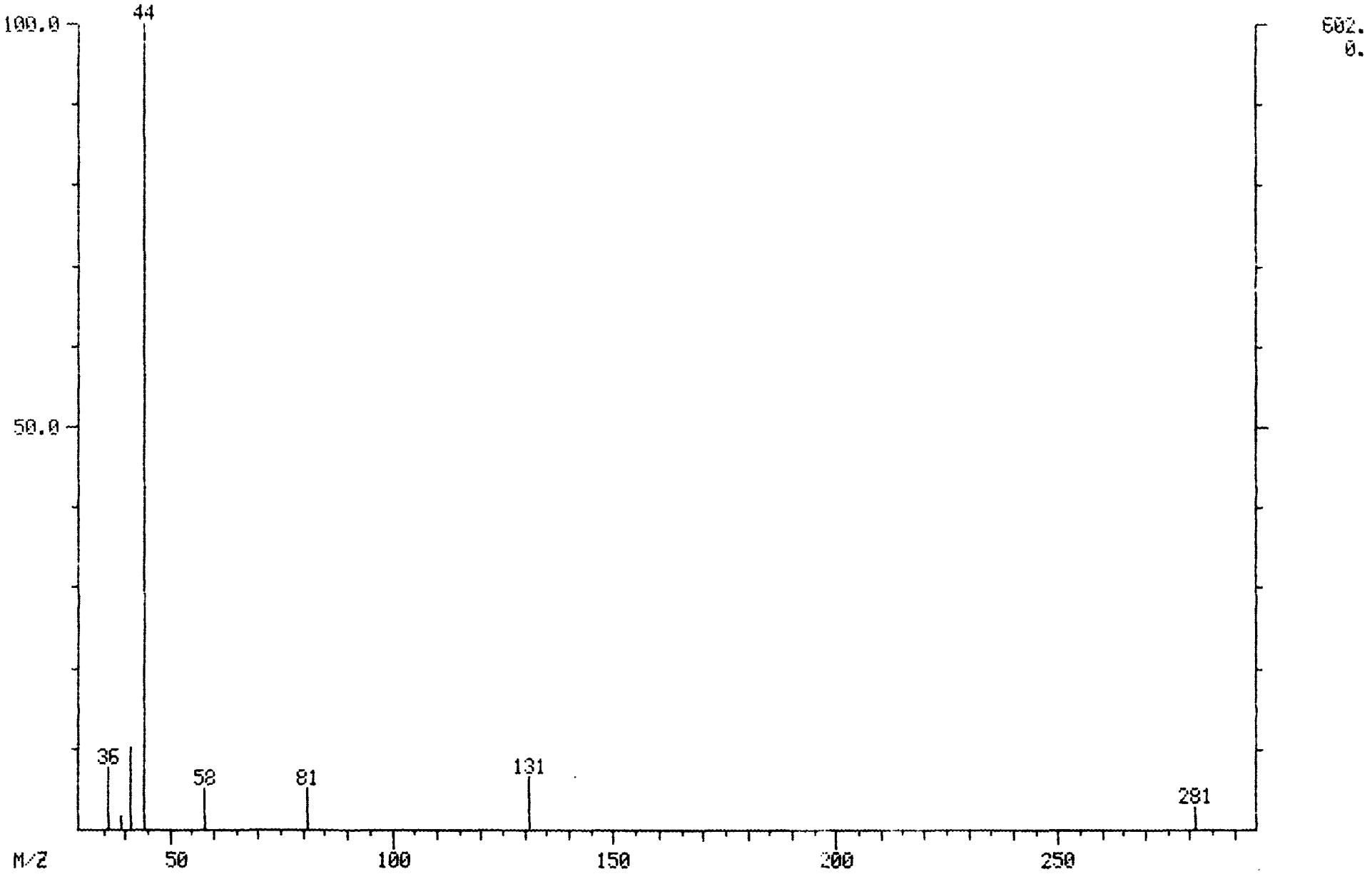
NAME: C035 ACETONE



MASS SPECTRUM
05/26/93 15:48:00 + 6:54
SAMPLE: CLP,1187,,93ZE33D38,L,W,,V,EPA
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
TEMP: 75 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C035 ACETONE

DATA: 93ZE33D38 #207
CALI: 93ZE33D38 #3

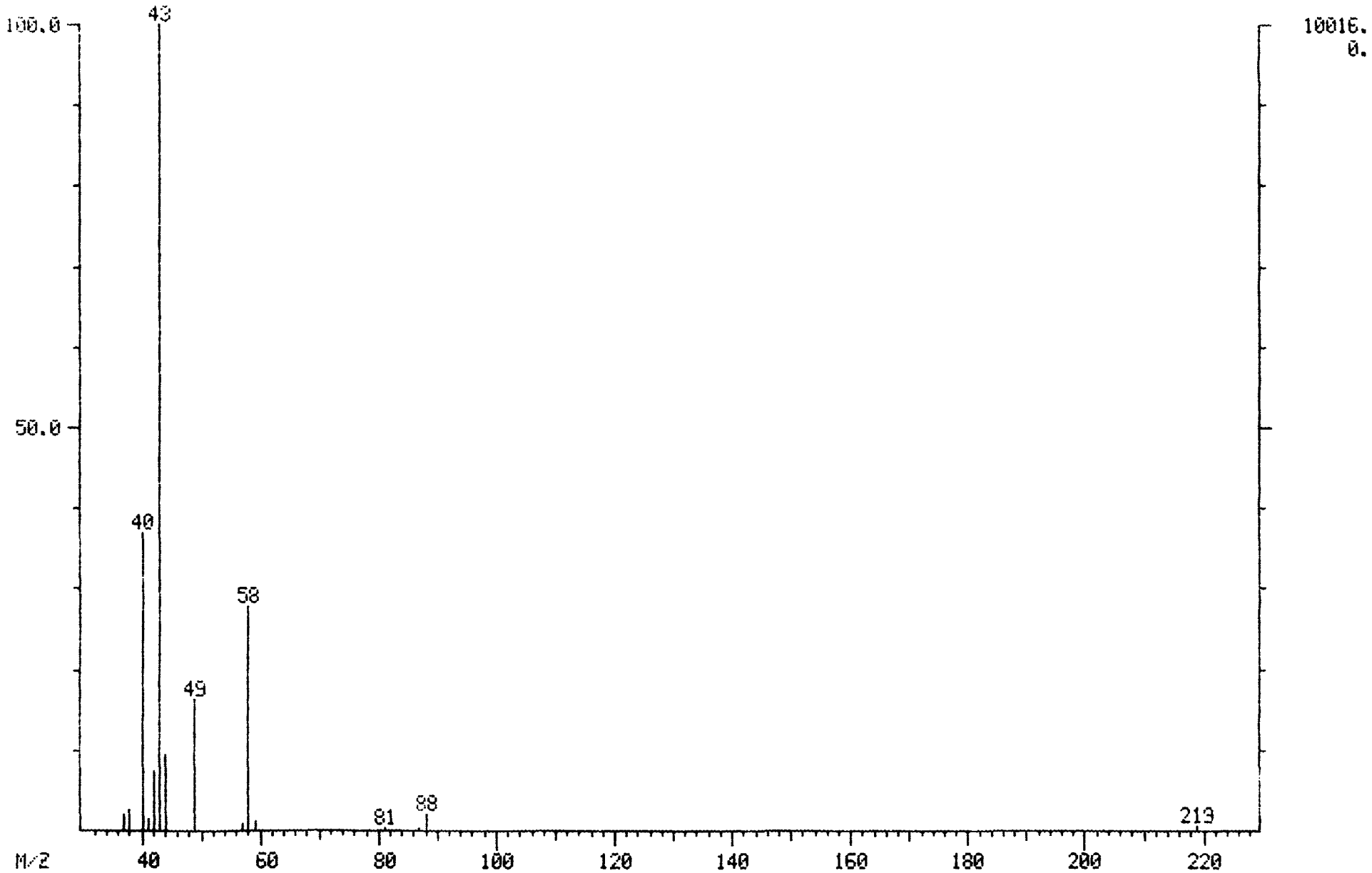
BASE M/Z: 44
RIC: 839.



MASS SPECTRUM
05/26/93 12:38:00 + 6:50
SAMPLE: CLP.1187,,CC0526B,L,W,,V,CC
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
TEMP: 74 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C035 ACETONE

DATA: CC0526B #205
CALI: CC0526B #3

BASE M/Z: 43
RIC: 20960.



QUANT REPORT

Quant Rev: 7

Quant Time: 930526 13:51
Injected at: 930526 13:18
Dilution Factor: 1.00000
Instrument ID: HP MS#4

Operator ID: TONY
Output File: ^AG258::D5
Data File: >AG258::D4
Name: 93ZE33S39DL1 10X DIL
Misc: 5/26/93, HP MS#4, 500uL/5mL PURGE

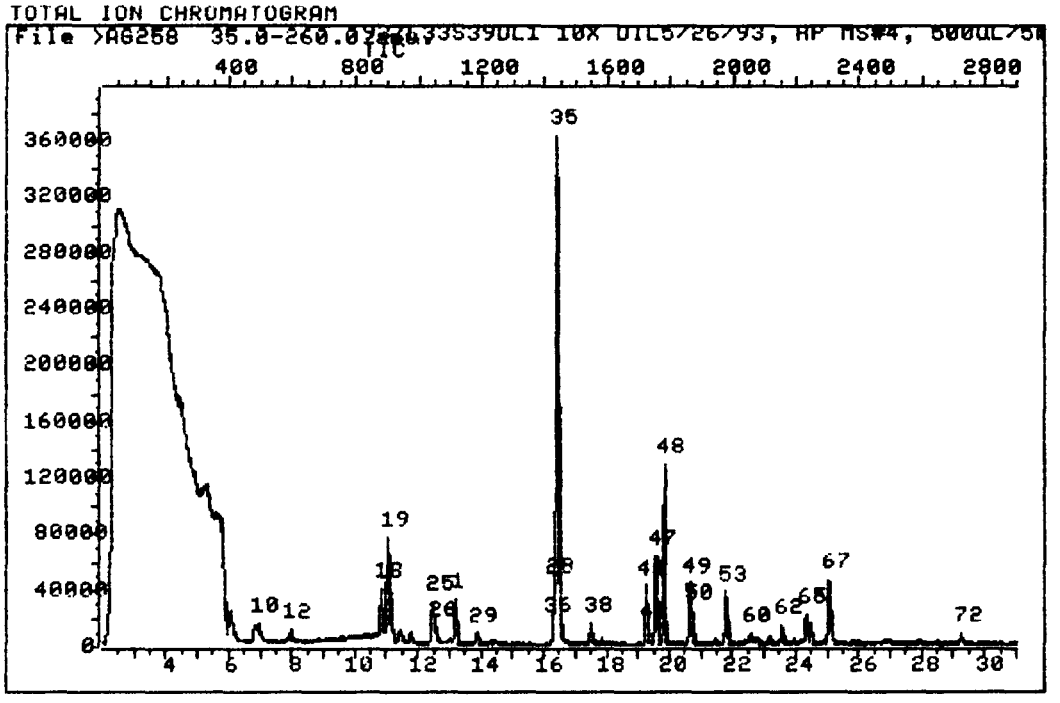
ID File: IDAG09::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54

Last Qcal Time: 930526 09:30

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.15	96.0	68388	10.00	ug/L	98
10)	Acetone	6.93	43.0	75680	168.28	ug/L	98
12)	Methylene chloride	7.93	84.0	12019	5.25	ug/L	88
18)	cis-1,2-Dichloroethene	10.82	96.0	37324	20.58	ug/L	91
19)	2-Butanone	11.01	43.0	249563	447.85	ug/L	77
25)	BENZENE-D6	12.44	84.0	66791	10.23	ug/L	99
26)	Benzene	12.51	78.0	16127	2.29	ug/L	96
28)	*TOLUENE-D8	16.29	98.0	68897	10.00	ug/L	97
29)	Trichloroethene	13.86	95.0	6481	2.27	ug/L	80
35)	Toluene	16.42	92.0	363599	82.51	ug/L	90
36)	4-Methyl-2-pentanone	16.23	43.0	15227	6.42	ug/L	85
38)	Tetrachloroethene	17.47	166.0	10066	4.37	ug/L	96
44)	*CHLOROBENZENE-D5	19.21	117.0	53434	10.00	ug/L	98
45)	Chlorobenzene	19.28	112.0	5514	1.11	ug/L	93
47)	Ethylbenzene	19.54	91.0	115214	12.66	ug/L	92
48)	m &/or p-Xylene	19.80	106.0	80094	27.12	ug/L	77
49)	o-Xylene	20.61	106.0	25134	9.28	ug/L	88
50)	Styrene	20.66	104.0	12634	2.71	ug/L	80
53)	p-BROMOFLUOROBENZENE	21.75	174.0	25336	10.26	ug/L	94
60)	1,3,5-Trimethylbenzene	22.55	105.0	14254	1.95	ug/L	58
62)	1,2,4-Trimethylbenzene	23.54	105.0	20936	2.87	ug/L	85
65)	1,4-Dichlorobenzene	24.29	146.0	11706	2.86	ug/L	94
66)	p-Isopropyltoluene	24.28	119.0	16046	2.25	ug/L	86
67)	1,2-DICHLOROBENZENE-D4	25.05	152.0	26820	10.29	ug/L	98
72)	Naphthalene	29.22	128.0	12899	2.03	ug/L	100

* Compound is ISTD

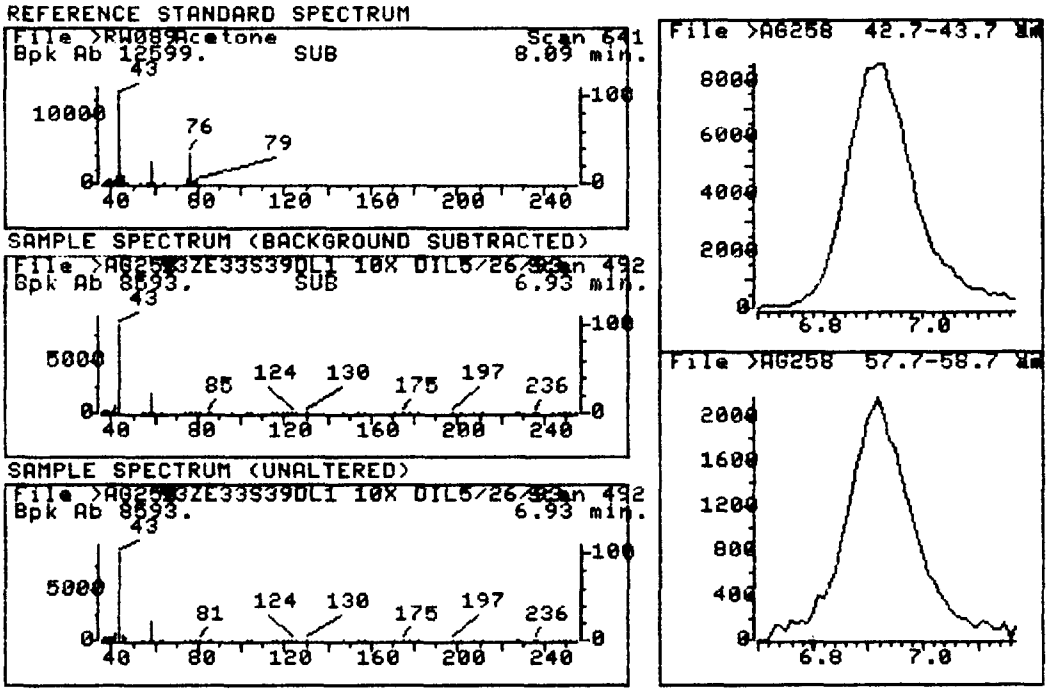
TOTAL ION CHROMATOGRAM



Data File: >AG258::D4 Quant Output File: ^AG258::D5
Name: 93ZE33S39DL1 10X DIL Instrument ID: HP MS#4
Misc: 5/26/93, HP MS#4, 500uL/5mL PURGE

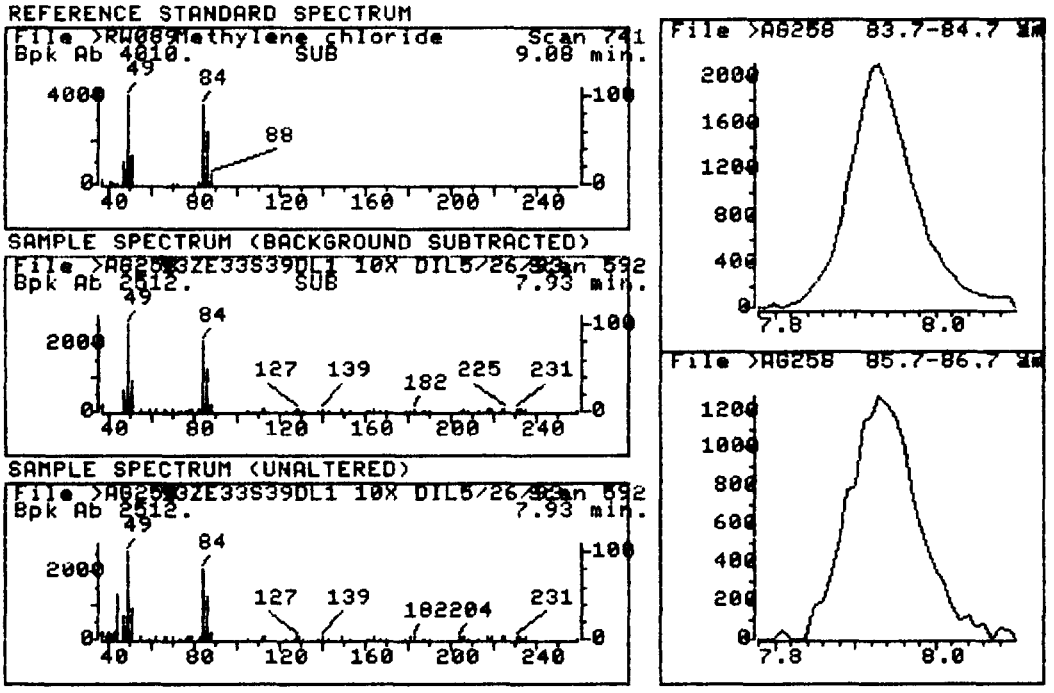
Id File: IDAG09::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54 Last Qcal Time: 930526 09:30

Operator ID: TONY
Quant Time : 930526 13:51
Injected at: 930526 13:18



Data File: >AG258::D4 Quant Output File: ^AG258::D5
Name: 93ZE33S39DL1 10X DIL Instrument ID: HP MS#4
Misc: 5/26/93, HP MS#4, 500uL/5mL PURGE
Quant Time: 930526 13:51 Quant ID File: IDAG09::QT
Injected at: 930526 13:18 Last Calibration: 930525 17:54
Last Qcal Time: 930526 09:30

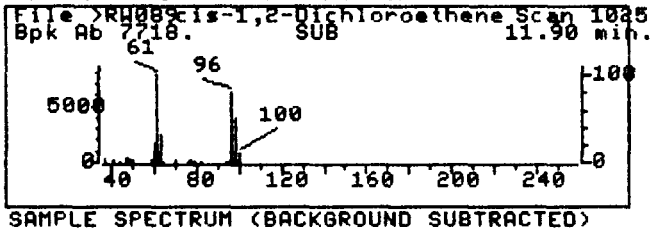
Compound No : 10
Compound Name : Acetone
Scan Number : 492
Retention Time: 6.93 min.
Quant Ion : 43.0
Area : 75680
Concentration : 168.28 ug/L
q-value : 98



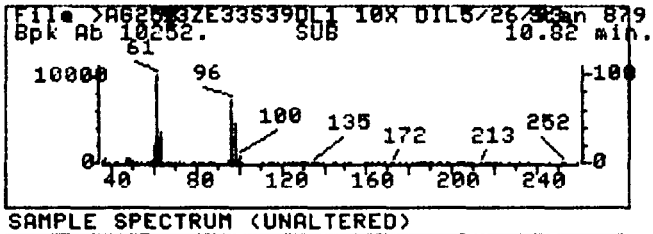
Data File: >AG258::D4 Quant Output File: ^AG258::D5
Name: 93ZE33S39DL1 10X DIL Instrument ID: HP MS#4
Misc: 5/26/93, HP MS#4, 500uL/5mL PURGE
Quant Time: 930526 13:51 Quant ID File: IDAG09::QT
Injected at: 930526 13:18 Last Calibration: 930525 17:54
Last Qcal Time: 930526 09:30

Compound No : 12
Compound Name : Methylene chloride
Scan Number : 592
Retention Time: 7.93 min.
Quant Ion : 84.0
Area : 12019
Concentration : 5.25 ug/L
q-value : 88

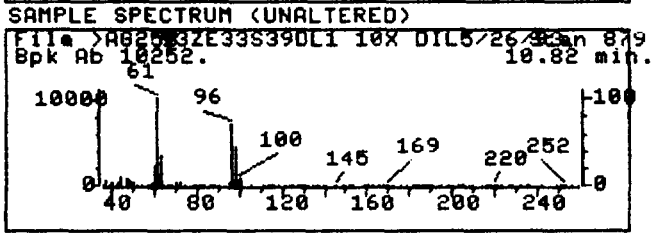
REFERENCE STANDARD SPECTRUM

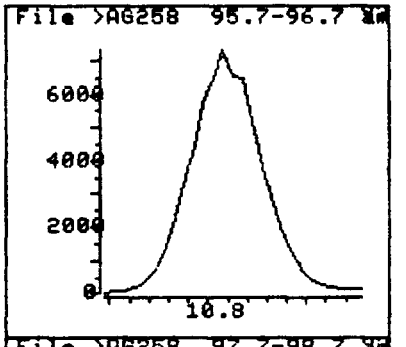


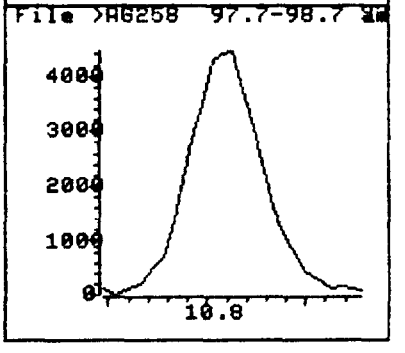
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



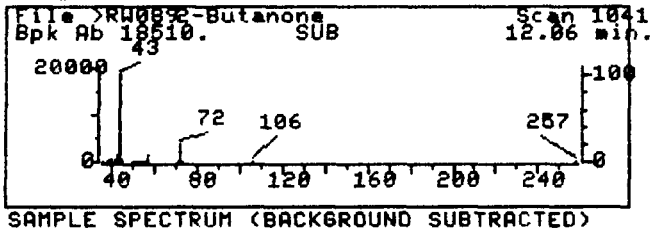




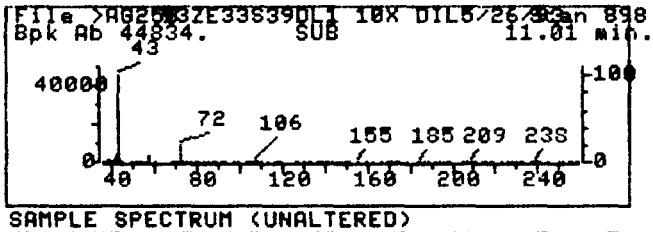
Data File: >AG258::D4 Quant Output File: ^AG258::D5
Name: 93ZE33S39DL1 10X DIL Instrument ID: HP MS#4
Misc: 5/26/93, HP MS#4, 500uL/5mL PURGE
Quant Time: 930526 13:51 Quant ID File: IDAG09::QT
Injected at: 930526 13:18 Last Calibration: 930525 17:54
Last Qcal Time: 930526 09:30

Compound No : 18
Compound Name : cis-1,2-Dichloroethene
Scan Number : 879
Retention Time: 10.82 min.
Quant Ion : 96.0
Area : 37324
Concentration : 20.58 ug/L
q-value : 91

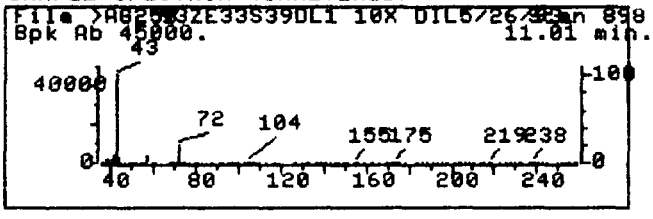
REFERENCE STANDARD SPECTRUM

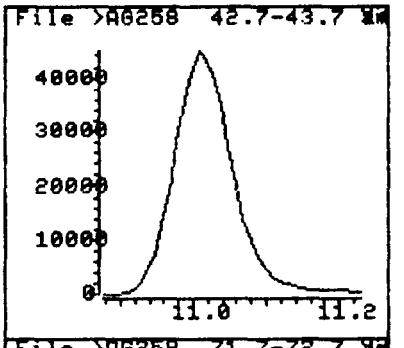


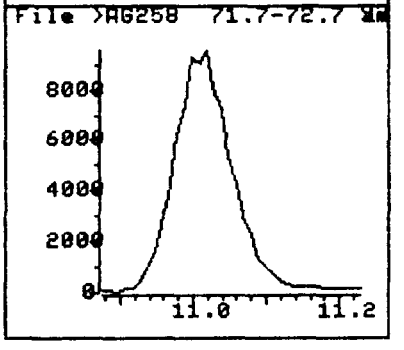
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



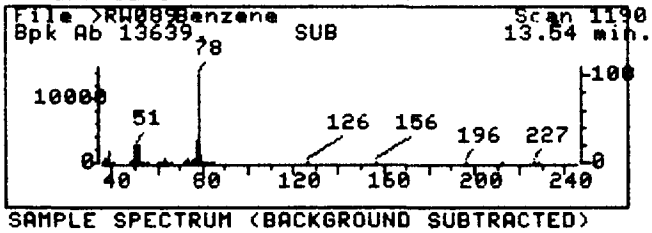




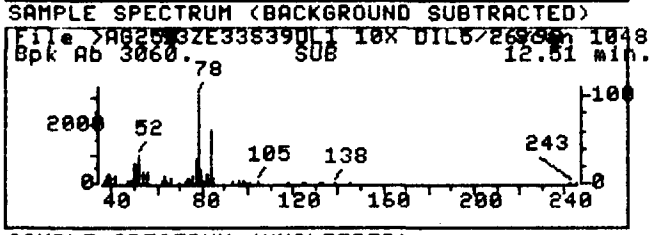
Data File: >AG258::D4 Quant Output File: ^AG258::D5
Name: 93ZE33S39DL1 10X DIL Instrument ID: HP MS#4
Misc: 5/26/93, HP MS#4, 500uL/5mL PURGE
Quant Time: 930526 13:51 Quant ID File: IDAGU9::QT
Injected at: 930526 13:18 Last Calibration: 930525 17:54
Last Qcal Time: 930526 09:30

Compound No : 19
Compound Name : 2-Butanone
Scan Number : 898
Retention Time: 11.01 min.
Quant Ion : 43.0
Area : 249563
Concentration : 447.85 ug/L
q-value : 77

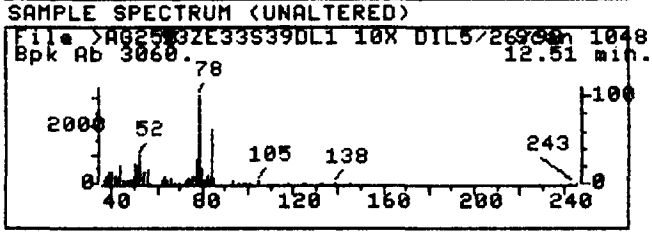
REFERENCE STANDARD SPECTRUM

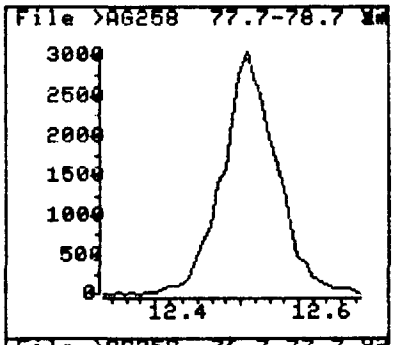


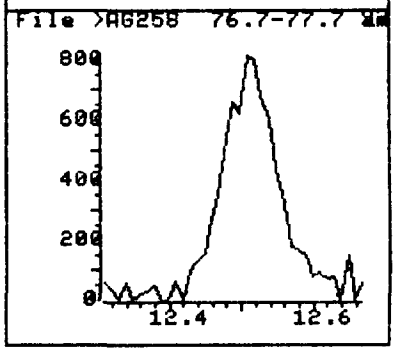
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



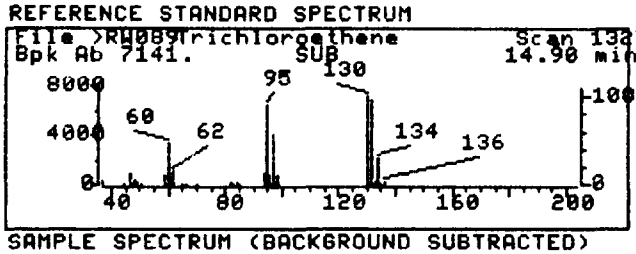


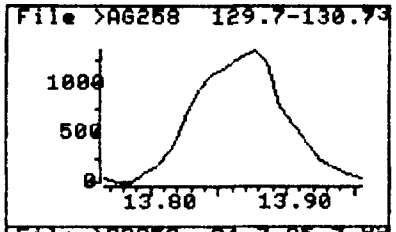


Data File: >AG258::D4 Quant Output File: ^AG258::D5
Name: 93ZE33S39DL1 10X DIL Instrument ID: HP MS#4
Misc: 5/26/93, HP MS#4, 500uL/5mL PURGE
Quant Time: 930526 13:51 Quant ID File: IDAG09::QT
Injected at: 930526 13:18 Last Calibration: 930525 17:54
Last Qcal Time: 930526 09:30

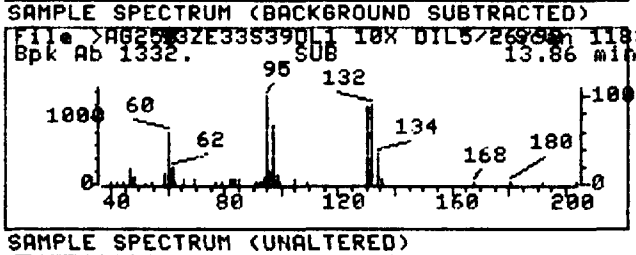
Compound No : 26
Compound Name : Benzene
Scan Number : 1048
Retention Time: 12.51 min.
Quant Ion : 78.0
Area : 16127
Concentration : 2.29 ug/L
q-value : 96

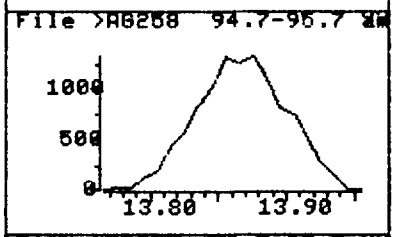
REFERENCE STANDARD SPECTRUM



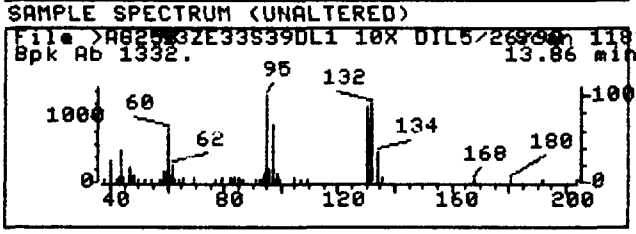


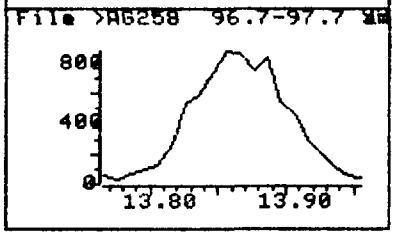
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)





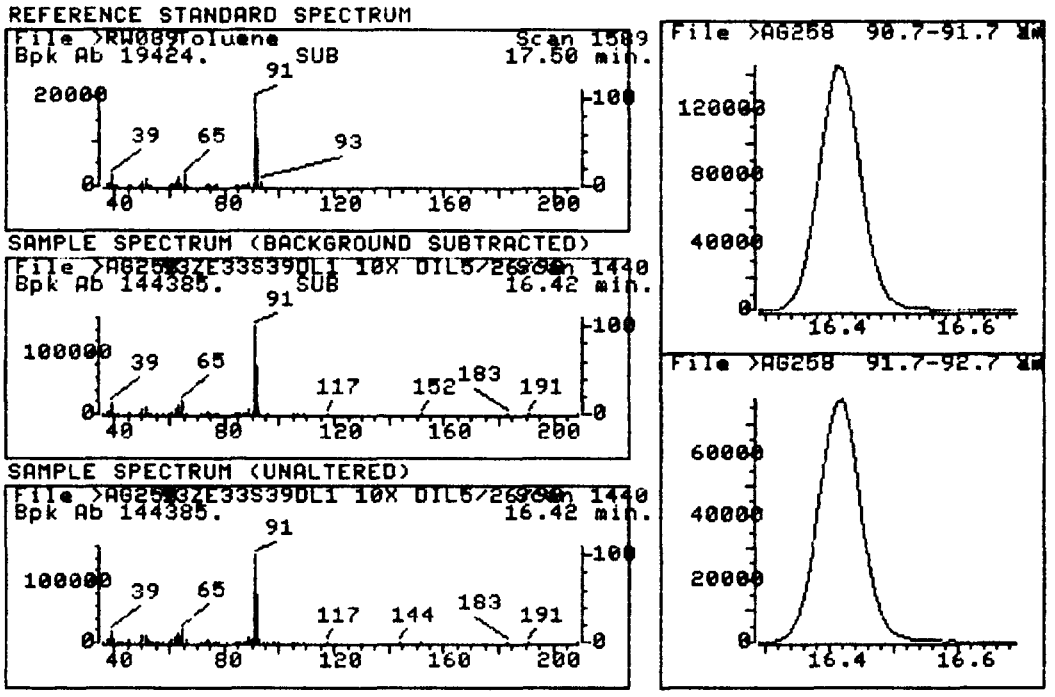
SAMPLE SPECTRUM (UNALTERED)





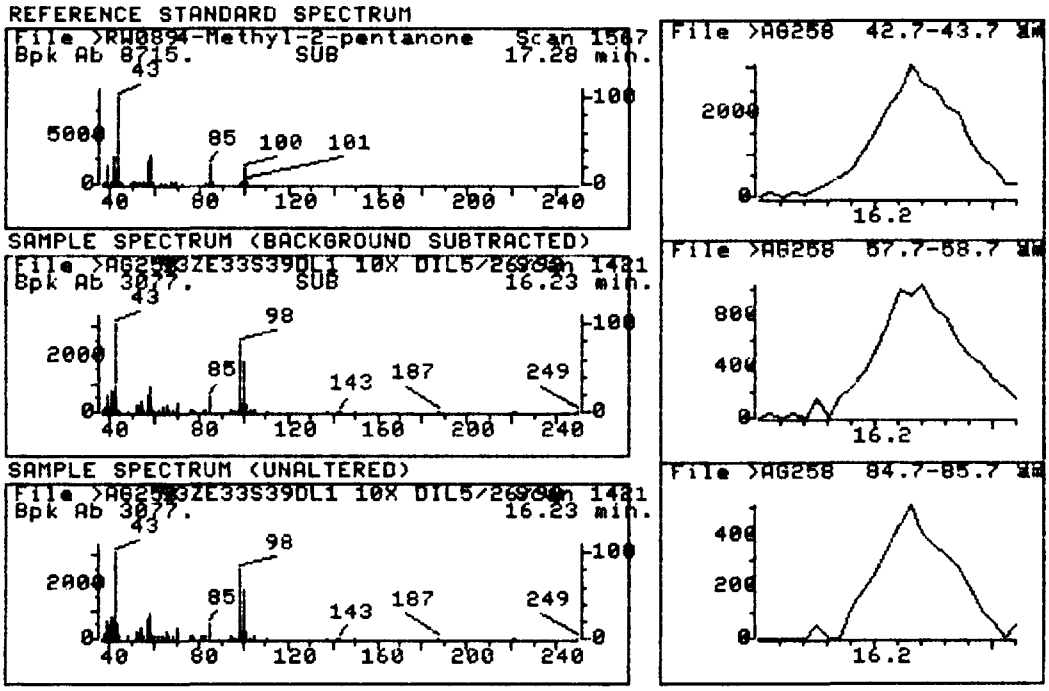
Data File: >AG258::D4 Quant Output File: ^AG258::D5
Name: 93ZE33S39DL1 10X DIL Instrument ID: HP MS#4
Misc: 5/26/93, HP MS#4, 500uL/5mL PURGE
Quant Time: 930526 13:51 Quant ID File: IDAG09::QT
Injected at: 930526 13:18 Last Calibration: 930525 17:54
Last Qcal Time: 930526 09:30

Compound No : 29
Compound Name : Trichloroethene
Scan Number : 1183
Retention Time: 13.86 min.
Quant Ion : 95.0
Area : 6481
Concentration : 2.27 ug/L
q-value : 80



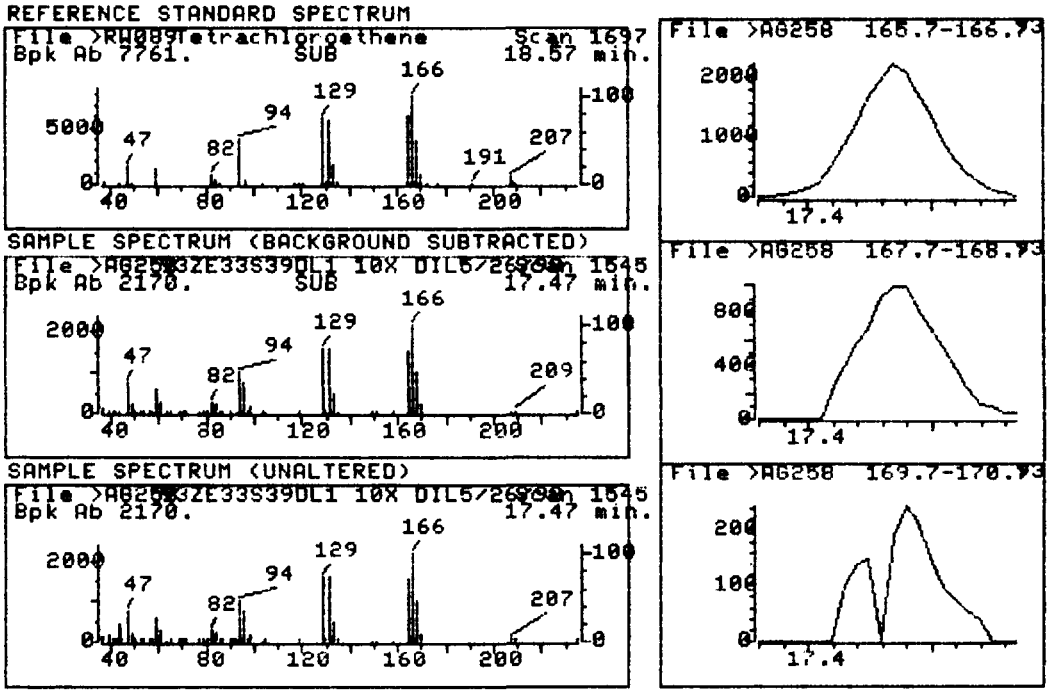
Data File: >AG258::D4 Quant Output File: ^AG258::D5
Name: 93ZE33S39DL1 10X DIL Instrument ID: HP MS#4
Misc: 5/26/93, HP MS#4, 500uL/5mL PURGE
Quant Time: 930526 13:51 Quant ID File: IDAGU9::QT
Injected at: 930526 13:18 Last Calibration: 930525 17:54
Last Qcal Time: 930526 09:30

Compound No : 35
Compound Name : Toluene
Scan Number : 1440
Retention Time: 16.42 min.
Quant Ion : 92.0
Area : 363599
Concentration : 82.51 ug/L
q-value : 90



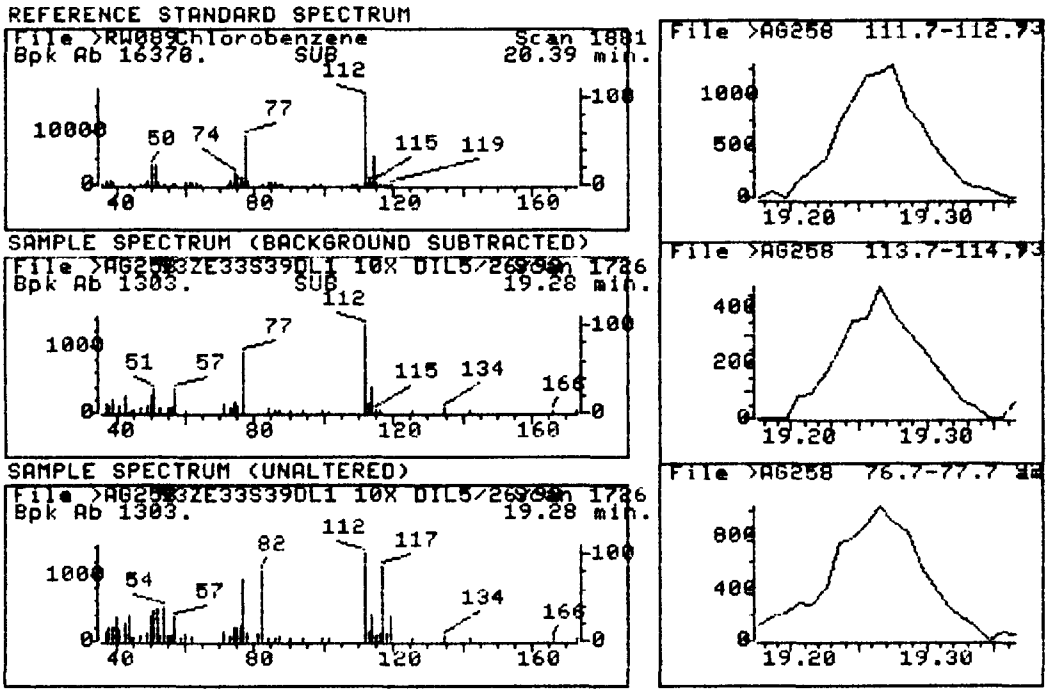
Data File: >AG258::D4 Quant Output File: ^AG258::D4
Name: 93ZE33S39DL1 10X DIL Instrument ID: HP MS#4
Misc: 5/26/93, HP MS#4, 500uL/5mL PURGE
Quant Time: 930526 13:51 Quant ID File: IDAG09::QT
Injected at: 930526 13:18 Last Calibration: 930525 17:54
Last Qcal Time: 930526 09:30

Compound No : 36
Compound Name : 4-Methyl-2-pentanone
Scan Number : 1421
Retention Time: 16.23 min.
Quant Ion : 43.0
Area : 15227
Concentration : 6.42 ug/L
q-value : 85



Data File: >AG258::D4 Quant Output File: ^AG258::D5
Name: 93ZE33S39DL1 10X DIL Instrument ID: HP MS#4
Misc: 5/26/93, HP MS#4, 500uL/5mL PURGE
Quant Time: 930526 13:51 Quant ID File: IDAG09::QT
Injected at: 930526 13:18 Last Calibration: 930525 17:54
Last Qcal Time: 930526 09:30

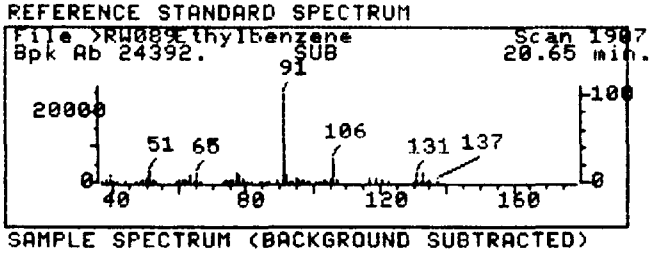
Compound No : 38
Compound Name : Tetrachloroethene
Scan Number : 1545
Retention Time: 17.47 min.
Quant Ion : 166.0
Area : 10066
Concentration : 4.37 ug/L
q-value : 96



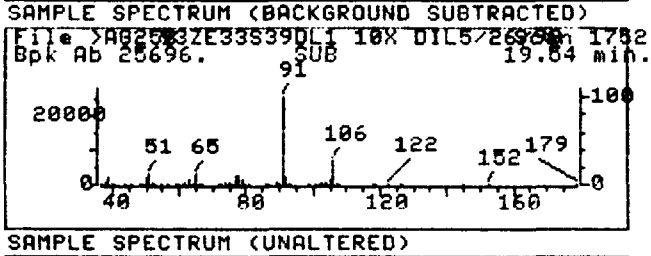
Data File: >AG258::D4 Quant Output File: ^AG258::D5
Name: 93ZE33S39DL1 10X DIL Instrument ID: HP MS#4
Misc: 5/26/93, HP MS#4, 500uL/5mL PURGE
Quant Time: 930526 13:51 Quant ID File: IDAGU9::QT
Injected at: 930526 13:18 Last Calibration: 930525 17:54
Last Qcal Time: 930526 09:30

Compound No : 45
Compound Name : Chlorobenzene
Scan Number : 1726
Retention Time: 19.28 min.
Quant Ion : 112.0
Area : 5514
Concentration : 1.11 ug/L
q-value : 93

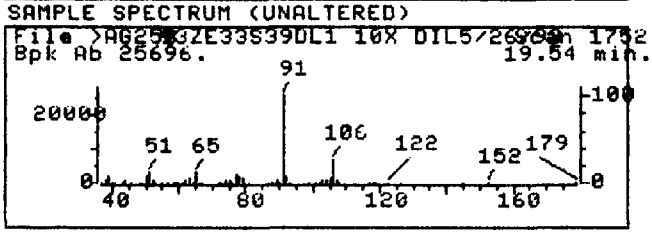
REFERENCE STANDARD SPECTRUM

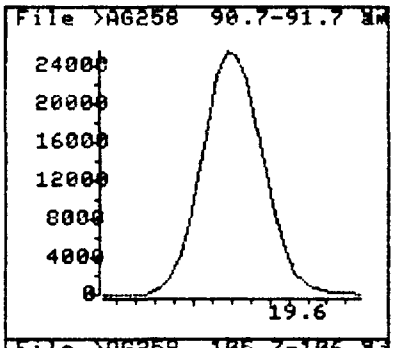


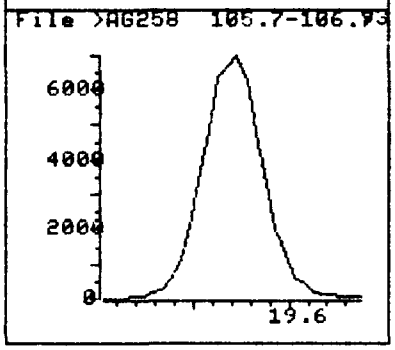
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

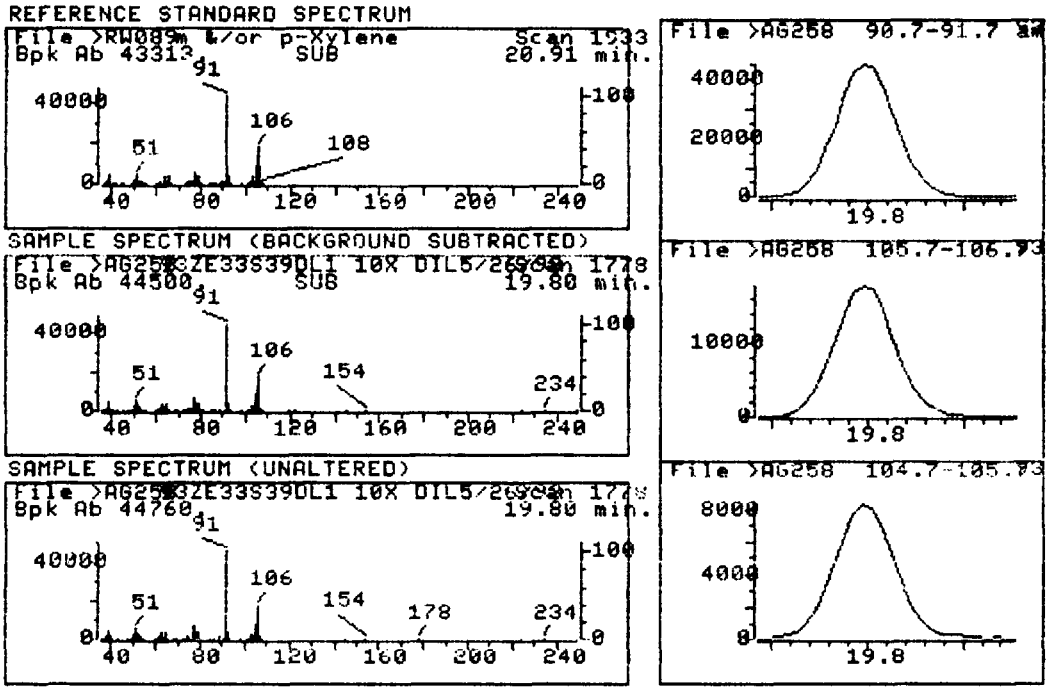






Data File: >AG258::D4 Quant Output File: ^AG258::D5
Name: 93ZE33S39DL1 10X DIL Instrument ID: HP MS#4
Misc: 5/26/93, HP MS#4, 500uL/5mL PURGE
Quant Time: 930526 13:51 Quant ID File: IDAG09::QT
Injected at: 930526 13:18 Last Calibration: 930525 17:54
Last Qcal Time: 930526 09:30

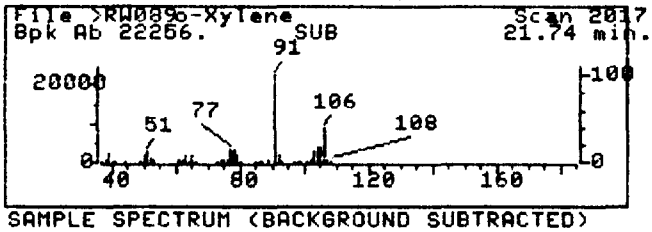
Compound No : 47
Compound Name : Ethylbenzene
Scan Number : 1752
Retention Time: 19.54 min.
Quant Ion : 91.0
Area : 115214
Concentration : 12.66 ug/L
q-value : 92



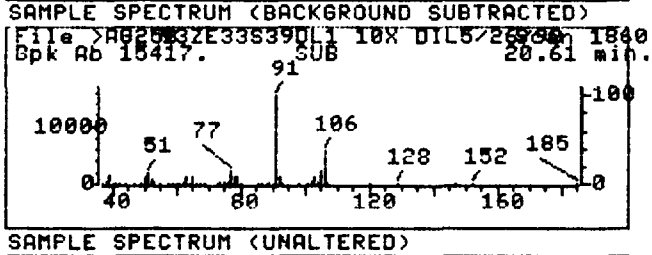
Data File: >AG258::D4 Quant Output File: ^AG258::D5
Name: 93ZE33S39DL1 10X DIL Instrument ID: HP MS#4
Misc: 5/26/93, HP MS#4, 500uL/5mL PURGE
Quant Time: 930526 13:51 Quant ID File: IDAG09::QT
Injected at: 930526 13:18 Last Calibration: 930525 17:54
Last Qcal Time: 930526 09:30

Compound No : 48
Compound Name : m &/or p-Xylene
Scan Number : 1778
Retention Time: 19.80 min.
Quant Ion : 106.0
Area : 80094
Concentration : 27.12 ug/L
q-value : 77

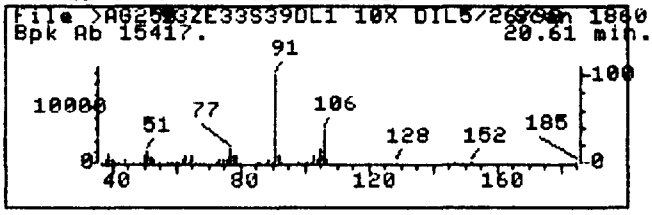
REFERENCE STANDARD SPECTRUM

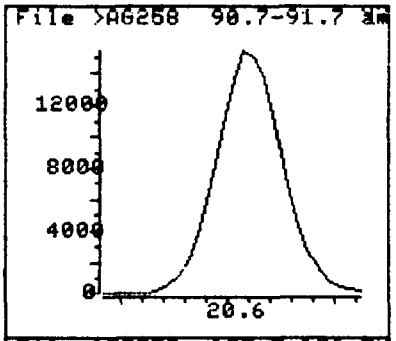


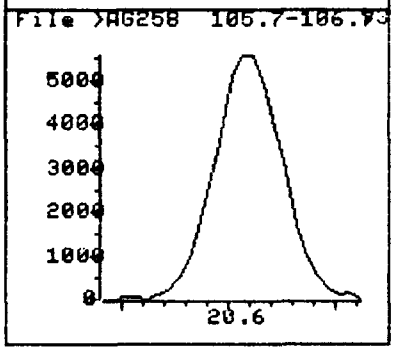
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

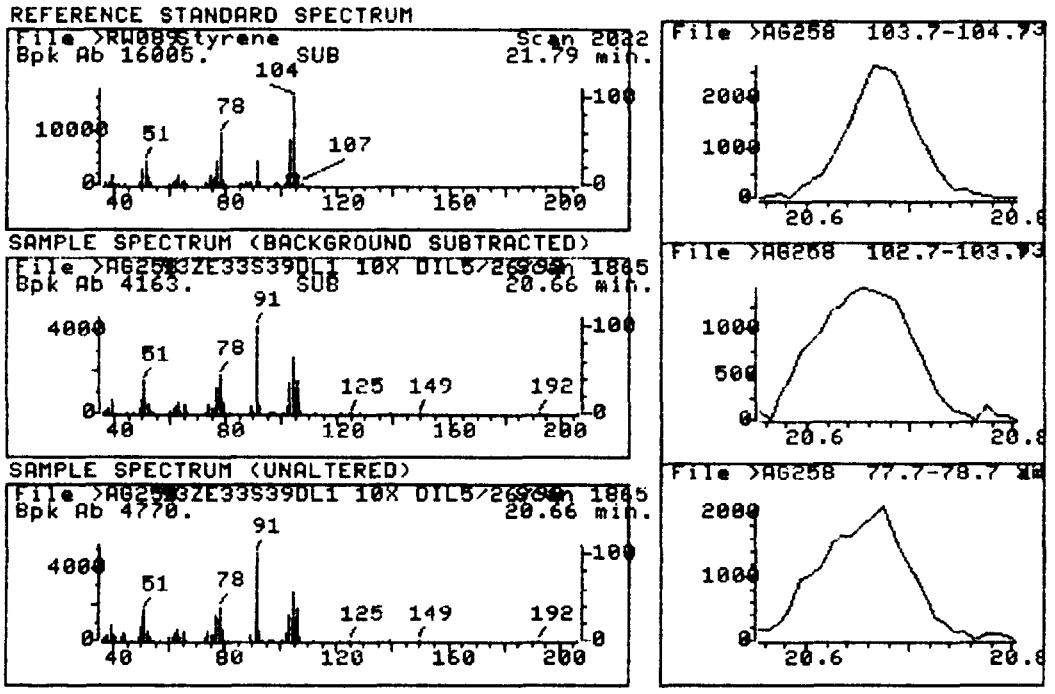






Data File: >AG258::D4 Quant Output File: ^AG258::D5
Name: 93ZE33S39DL1 10X DIL Instrument ID: HP MS#4
Misc: 5/26/93, HP MS#4, 500uL/5mL PURGE
Quant Time: 930526 13:51 Quant ID File: IDAG09::QT
Injected at: 930526 13:18 Last Calibration: 930525 17:54
Last Qcal Time: 930526 09:30

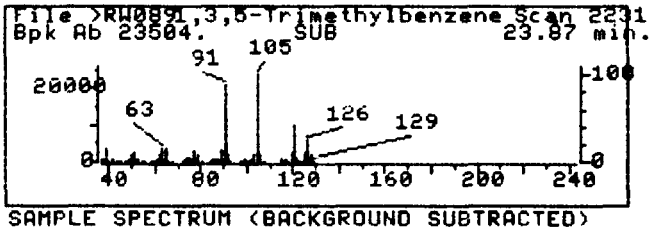
Compound No : 49
Compound Name : o-Xylene
Scan Number : 1860
Retention Time: 20.61 min.
Quant Ion : 106.0
Area : 25134
Concentration : 9.28 ug/L
q-value : 88



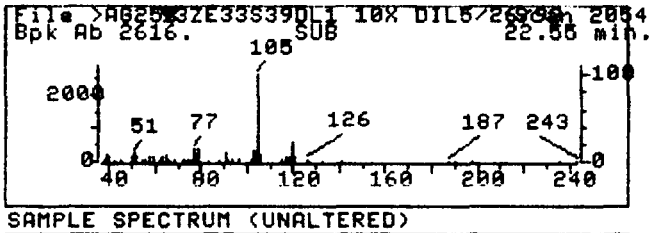
Data File: >AG258::D4 Quant Output File: ^AG258::D5
Name: 93ZE33S39DL1 10X DIL Instrument ID: HP MS#4
Misc: 5/26/93, HP MS#4, 500uL/5mL PURGE
Quant Time: 930526 13:51 Quant ID File: IDAG09::QT
Injected at: 930526 13:18 Last Calibration: 930525 17:54
Last Qcal Time: 930526 09:30

Compound No : 50
Compound Name : Styrene
Scan Number : 1865
Retention Time: 20.66 min.
Quant Ion : 104.0
Area : 12634
Concentration : 2.71 ug/L
q-value : 80

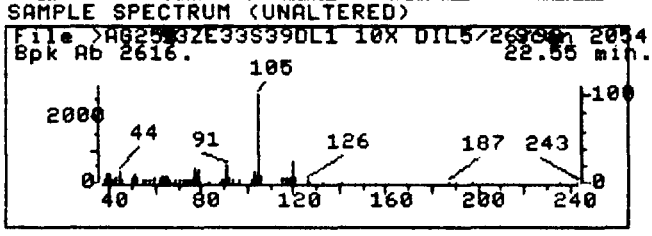
REFERENCE STANDARD SPECTRUM

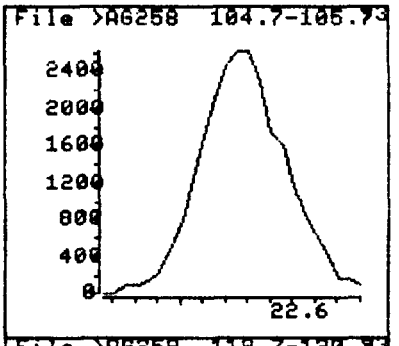


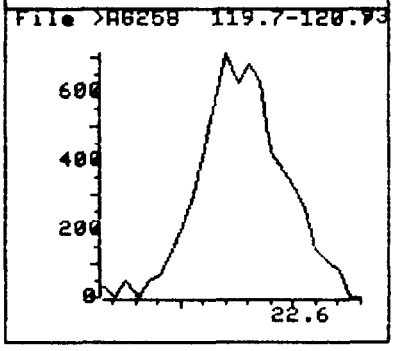
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



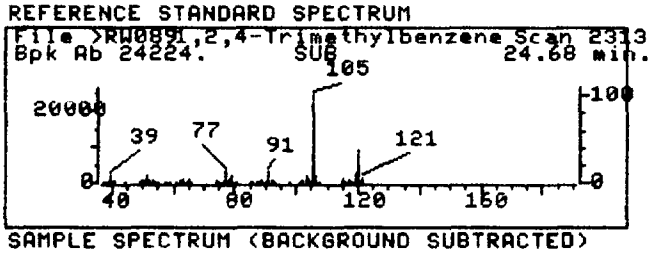




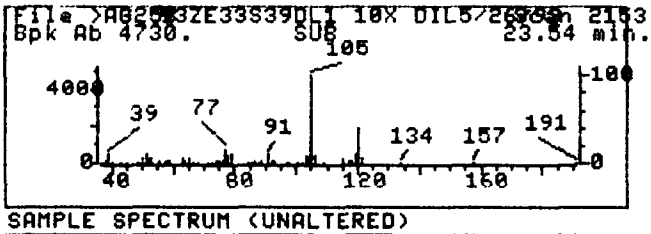
Data File: >AG258::D4 Quant Output File: ^AG258::D5
Name: 93ZE33S39DL1 10X DIL Instrument ID: HP MS#4
Misc: 5/26/93, HP MS#4, 500uL/5mL PURGE
Quant Time: 930526 13:51 Quant ID File: IDAG09::QT
Injected at: 930526 13:18 Last Calibration: 930525 17:54
Last Qcal Time: 930526 09:30

Compound No : 60
Compound Name : 1,3,5-Trimethylbenzene
Scan Number : 2054
Retention Time: 22.55 min.
Quant Ion : 105.0
Area : 14254
Concentration : 1.95 ug/L
q-value : 58

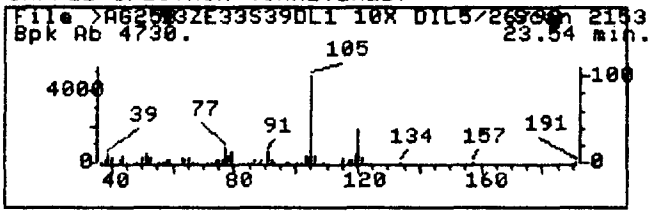
REFERENCE STANDARD SPECTRUM

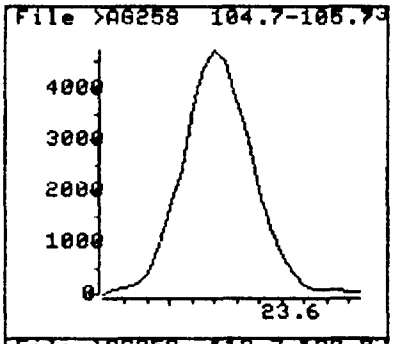


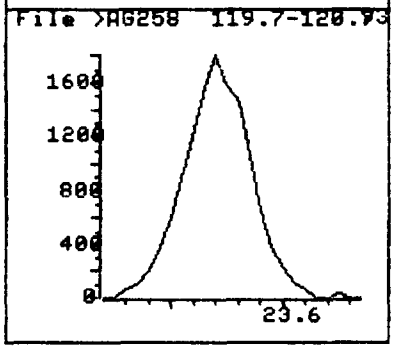
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

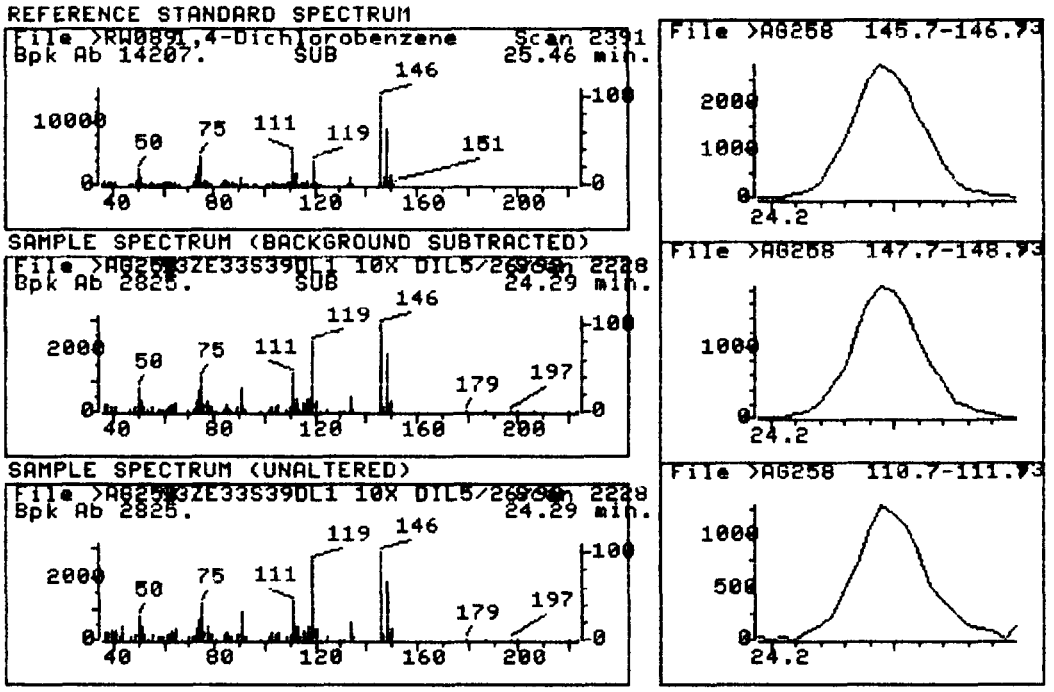






Data File: >AG258::D4 Quant Output File: ^AG258::D5
Name: 93ZE33S39DL1 10X DIL Instrument ID: HP MS#4
Misc: 5/26/93, HP MS#4, 500uL/5mL PURGE
Quant Time: 930526 13:51 Quant ID File: IDAG09::QT
Injected at: 930526 13:18 Last Calibration: 930525 17:54
Last Qcal Time: 930526 09:30

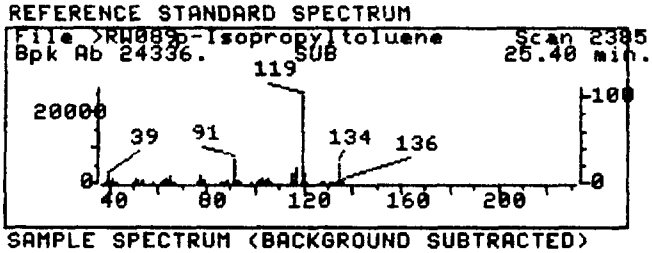
Compound No : 62
Compound Name : 1,2,4-Trimethylbenzene
Scan Number : 2153
Retention Time: 23.54 min.
Quant Ion : 105.0
Area : 20936
Concentration : 2.87 ug/L
q-value : 85

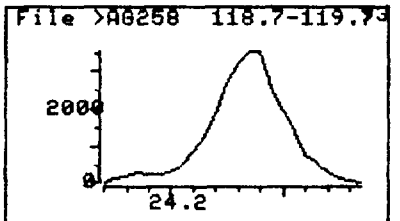


Data File: >AG258::D4 Quant Output File: ^AG258::D5
Name: 93ZE33S39DL1 10X DIL Instrument ID: HP MS#4
Misc: 5/26/93, HP MS#4, 500uL/5mL PURGE
Quant Time: 930526 13:51 Quant ID File: IDAG09::QT
Injected at: 930526 13:18 Last Calibration: 930525 17:54
Last Qcal Time: 930526 09:30

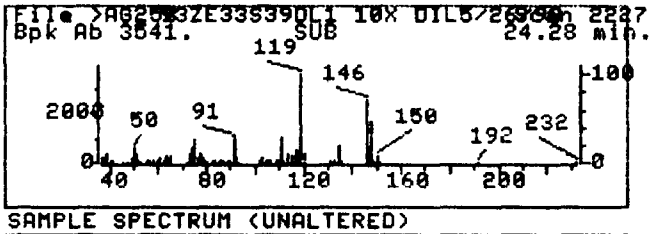
Compound No : 65
Compound Name : 1,4-Dichlorobenzene
Scan Number : 2228
Retention Time: 24.29 min.
Quant Ion : 146.0
Area : 11706
Concentration : 2.86 ug/L
q-value : 94

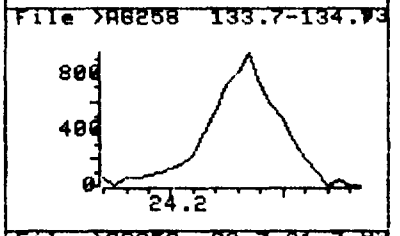
REFERENCE STANDARD SPECTRUM



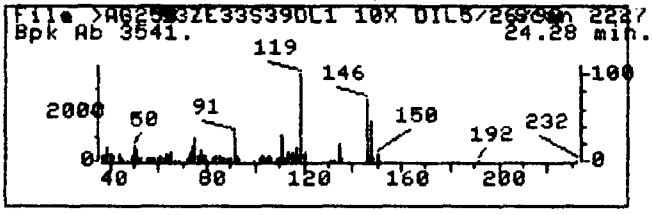


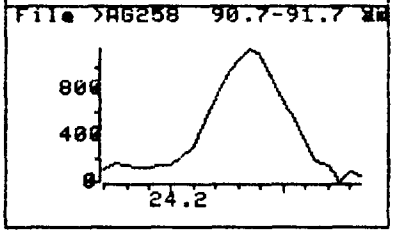
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)





SAMPLE SPECTRUM (UNALTERED)

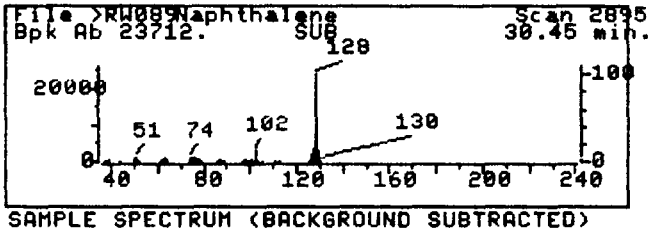




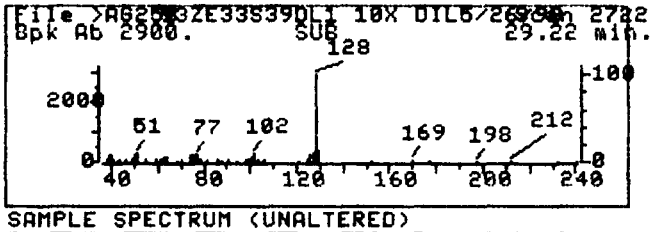
Data File: >AG258::D4 Quant Output File: ^AG258::D5
Name: 93ZE33S39DL1 10X DIL Instrument ID: HP MS#4
Misc: 5/26/93, HP MS#4, 500uL/5mL PURGE
Quant Time: 930526 13:51 Quant ID File: IDAG09::QT
Injected at: 930526 13:18 Last Calibration: 930525 17:54
Last Qcal Time: 930526 09:30

Compound No : 66
Compound Name : p-Isopropyltoluene
Scan Number : 2227
Retention Time: 24.28 min.
Quant Ion : 119.0
Area : 16046
Concentration : 2.25 ug/L
q-value : 86

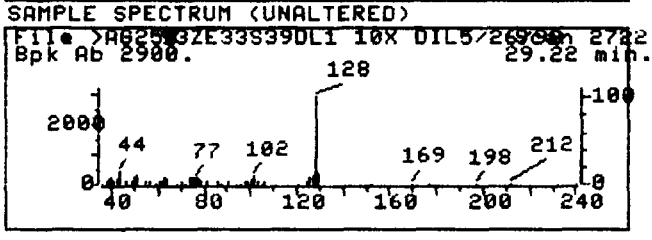
REFERENCE STANDARD SPECTRUM

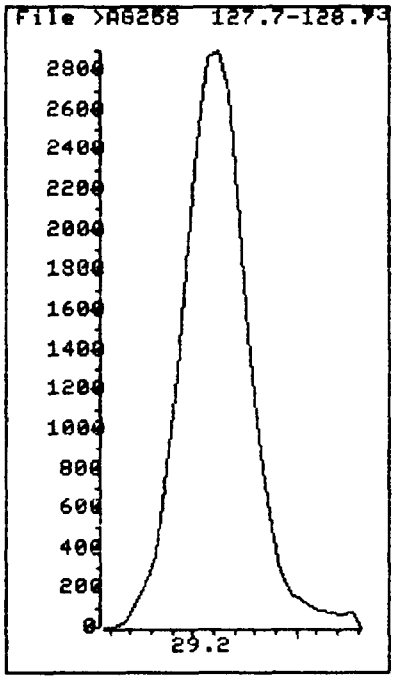


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)





Data File: >AG258::D4 Quant Output File: ^AG258::D5
Name: 93ZE33S39DL1 10X DIL Instrument ID: HP MS#4
Misc: 5/26/93, HP MS#4, 500uL/5mL PURGE
Quant Time: 930526 13:51 Quant ID File: IDAG09::QT
Injected at: 930526 13:18 Last Calibration: 930525 17:54
Last Qcal Time: 930526 09:30

Compound No : 72
Compound Name : Naphthalene
Scan Number : 2722
Retention Time: 29.22 min.
Quant Ion : 128.0
Area : 12899
Concentration : 2.03 ug/L
q-value : 100

QUANT REPORT

Operator ID: TONY
Output File: ^AG259::D5
Data File: >AG259::D4
Name: 93ZE33D39DL1 10X DIL
Misc: 5/26/93, 500uL/5mL PURGE

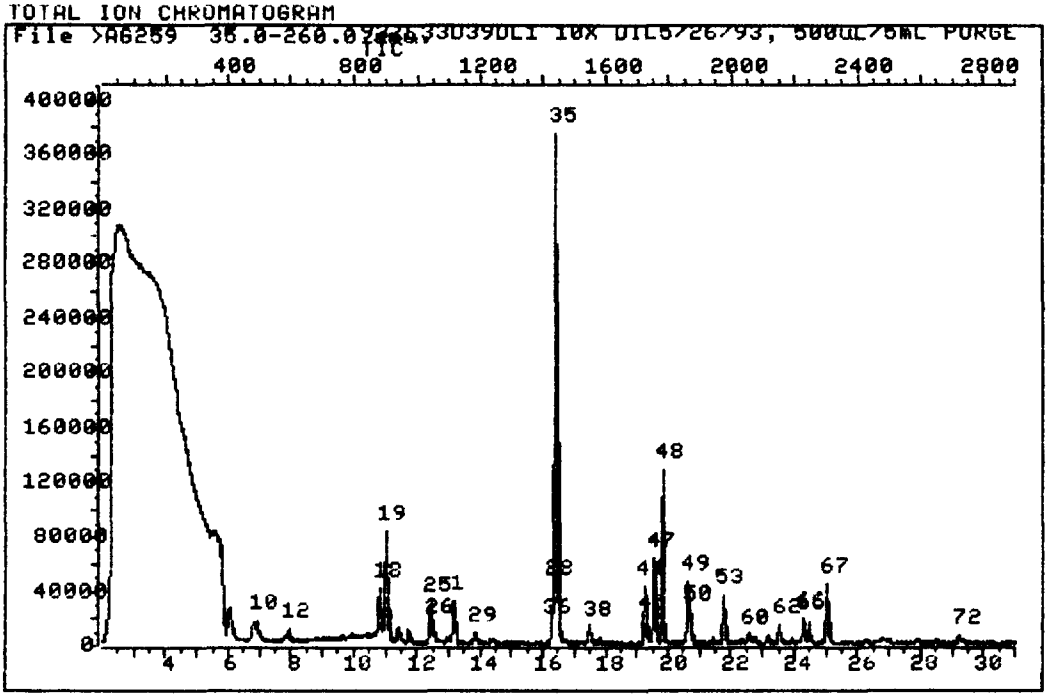
Quant Rev: 7
Quant Time: 930526 15:04
Injected at: 930526 14:31
Dilution Factor: 1.00000
Instrument ID: HP MS#4

ID File: IDAG09::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54
Last Qcal Time: 930526 09:30

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.12	96.0	67340	10.00	ug/L	98
10)	Acetone	6.91	43.0	82122	185.44	ug/L	98
12)	Methylene chloride	7.92	84.0	12312	5.46	ug/L	98
18)	cis-1,2-Dichloroethene	10.80	96.0	38554	21.59	ug/L	94
19)	2-Butanone	11.00	43.0	275762	502.56	ug/L	78
25)	BENZENE-D6	12.42	84.0	64069	9.97	ug/L	96
26)	Benzene	12.48	78.0	16419	2.37	ug/L	94
28)	*TOLUENE-D8	16.28	98.0	66303	10.00	ug/L	97
29)	Trichloroethene	13.84	95.0	6875	2.51	ug/L	91
35)	Toluene	16.41	92.0	373697	88.12	ug/L	89
36)	4-Methyl-2-pentanone	16.22	43.0	18798	8.23	ug/L	90
38)	Tetrachloroethene	17.46	166.0	9809	4.42	ug/L	96
44)	*CHLOROBENZENE-D5	19.20	117.0	51697	10.00	ug/L	96
45)	Chlorobenzene	19.25	112.0	5323	1.11	ug/L	91
47)	Ethylbenzene	19.53	91.0	112870	12.81	ug/L	97
48)	m &/or p-Xylene	19.79	106.0	80995	28.35	ug/L	77
49)	o-Xylene	20.61	106.0	25761	9.83	ug/L	91
50)	Styrene	20.66	104.0	15695	3.48	ug/L	83
53)	p-BROMOFLUOROBENZENE	21.73	174.0	24207	10.13	ug/L	98
60)	1,3,5-Trimethylbenzene	22.53	105.0	14009	1.98	ug/L	60
62)	1,2,4-Trimethylbenzene	23.53	105.0	19375	2.75	ug/L	79
65)	1,4-Dichlorobenzene	24.28	146.0	11295	2.85	ug/L	97
66)	p-Isopropyltoluene	24.26	119.0	15235	2.21	ug/L	87
67)	1,2-DICHLOROBENZENE-D4	25.03	152.0	25915	10.27	ug/L	84
72)	Naphthalene	29.21	128.0	13876	2.25	ug/L	100

* Compound is ISTD

TOTAL ION CHROMATOGRAM

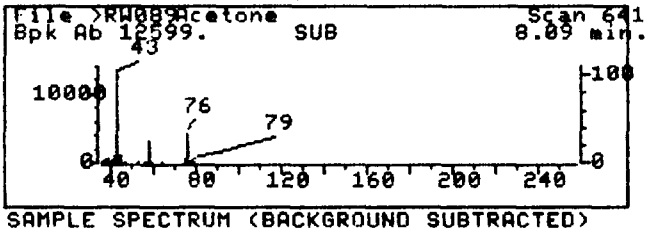


Data File: >AG259::D4 Quant Output File: ^AG259::D5
Name: 93ZE33D39DL1 10X DIL Instrument ID: HP MS#4
Misc: 5/26/93, 500uL/5mL PURGE

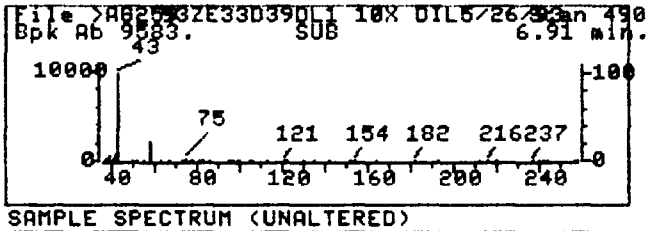
Id File: IDAG09::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54 Last Qcal Time: 930526 09:30

Operator ID: TONY
Quant Time : 930526 15:04
Injected at: 930526 14:31

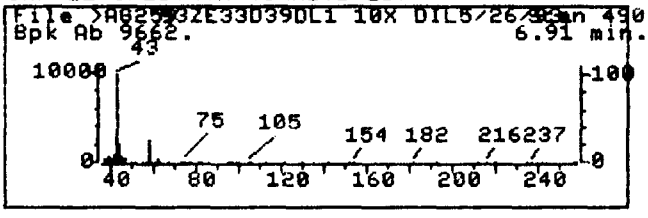
REFERENCE STANDARD SPECTRUM

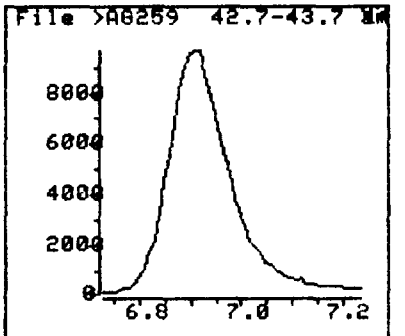


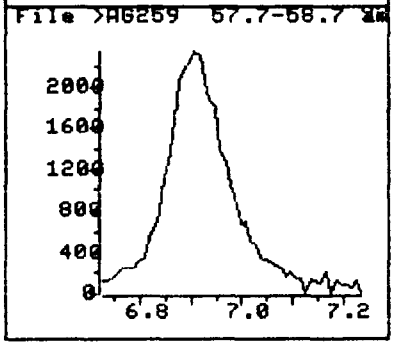
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







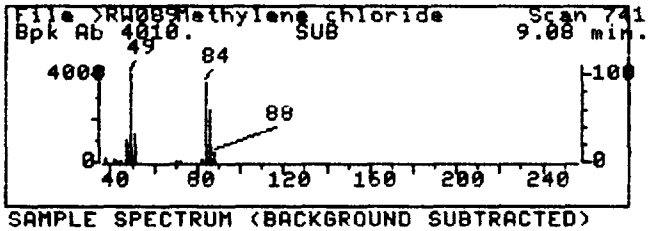
Data File: >AG259::D4
Name: 93ZE33D39DL1 10X DIL
Misc: 5/26/93, 500uL/5mL PURGE
Quant Time: 930526 15:04
Injected at: 930526 14:31
Last Qcal Time: 930526 09:30

Quant Output File: ^AG259::D5
Instrument ID: HP MS#4

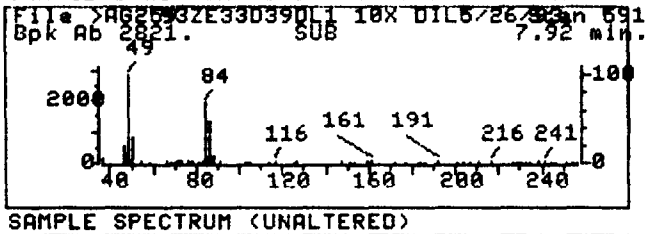
Quant ID File: IDAG09::QT
Last Calibration: 930525 17:54

Compound No : 10
Compound Name : Acetone
Scan Number : 490
Retention Time: 6.91 min.
Quant Ion : 43.0
Area : 82122
Concentration : 185.44 ug/L
q-value : 98

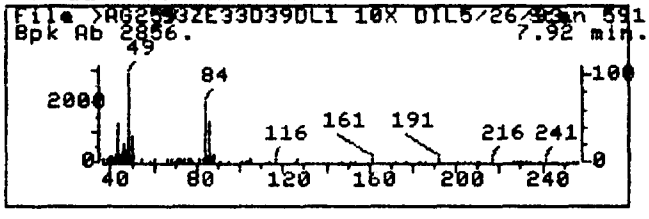
REFERENCE STANDARD SPECTRUM

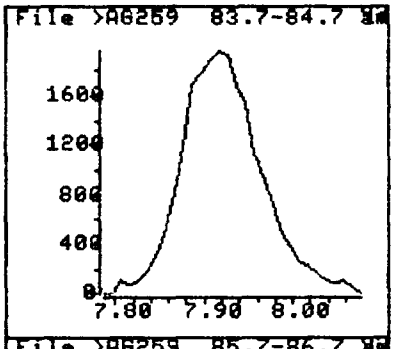


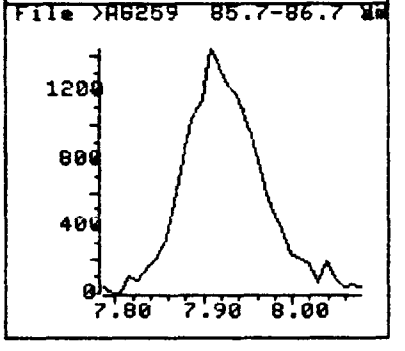
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)





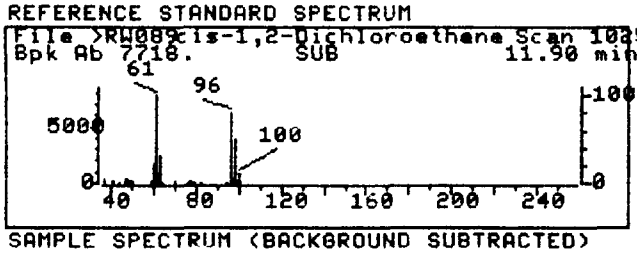


Data File: >AG259::D4
Name: 93ZE33D39DL1 10X DIL
Misc: 5/26/93, 500uL/5mL PURGE
Quant Time: 930526 15:04
Injected at: 930526 14:31
Last Qcal Time: 930526 09:30

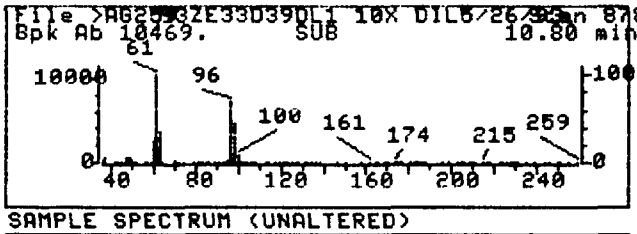
Quant Output File: ^AG259::D5
Instrument ID: HP MS#4
Quant ID File: IDAG09::QT
Last Calibration: 930525 17:54

Compound No : 12
Compound Name : Methylene chloride
Scan Number : 591
Retention Time: 7.92 min.
Quant Ion : 84.0
Area : 12312
Concentration : 5.46 ug/L
q-value : 98

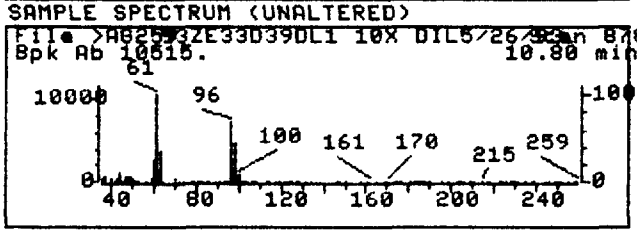
REFERENCE STANDARD SPECTRUM

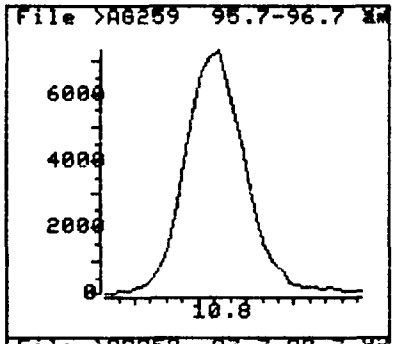


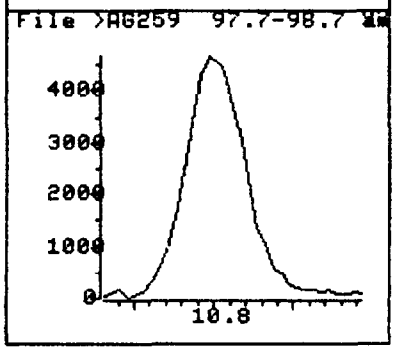
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)





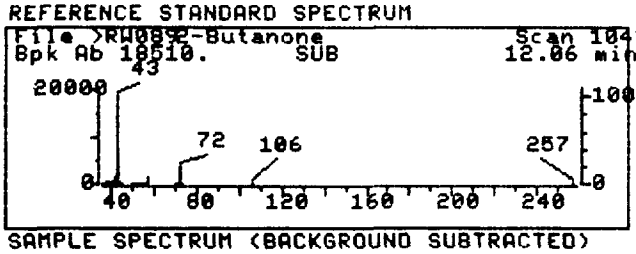


Data File: >AG259::D4
Name: 93ZE33D39DL1 10X DIL
Misc: 5/26/93, 500uL/5mL PURGE
Quant Time: 930526 15:04
Injected at: 930526 14:31
Last Qcal Time: 930526 09:30

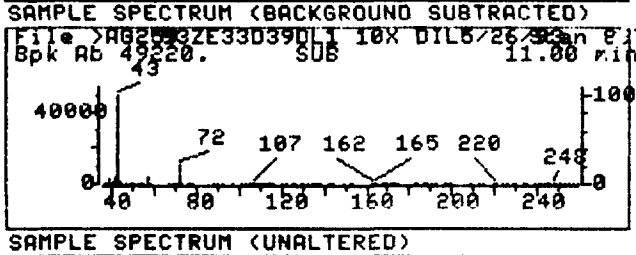
Quant Output File: ^AG259::D5
Instrument ID: HP MS#4
Quant ID File: IDAG09::QT
Last Calibration: 930525 17:54

Compound No : 18
Compound Name : cis-1,2-Dichloroethene
Scan Number : 878
Retention Time: 10.80 min.
Quant Ion : 96.0
Area : 38554
Concentration : 21.59 ug/L
q-value : 94

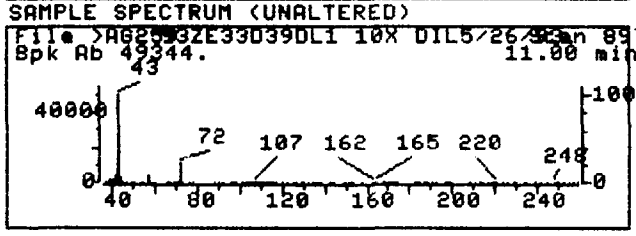
REFERENCE STANDARD SPECTRUM

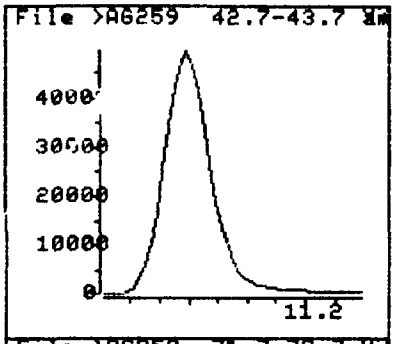


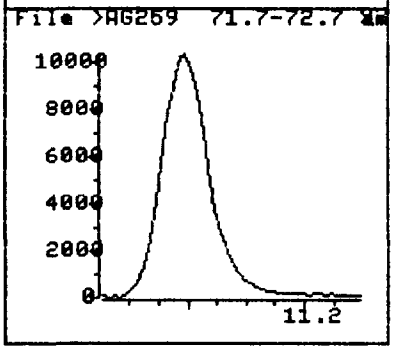
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







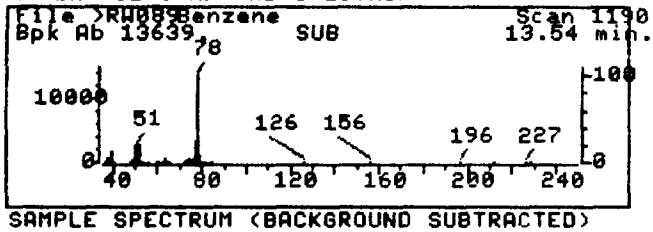
Data File: >AG259::D4
Name: 93ZE33D39DL1 10X DIL
Misc: 5/26/93, 500uL/5mL PURGE
Quant Time: 930526 15:04
Injected at: 930526 14:31
Last Qcal Time: 930526 09:30

Quant Output File: ^AG259::D5
Instrument ID: HP MS#4

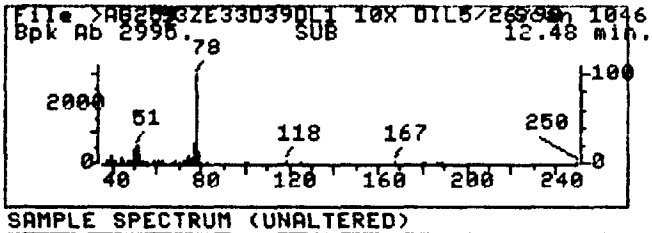
Quant ID File: IDAG09::WT
Last Calibration: 930525 17:54

Compound No : 19
Compound Name : 2-Butanone
Scan Number : 897
Retention Time: 11.00 min.
Quant Ion : 43.0
Area : 275762
Concentration : 502.56 ug/L
q-value : 78

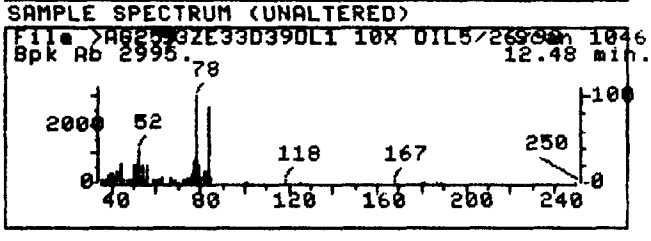
REFERENCE STANDARD SPECTRUM

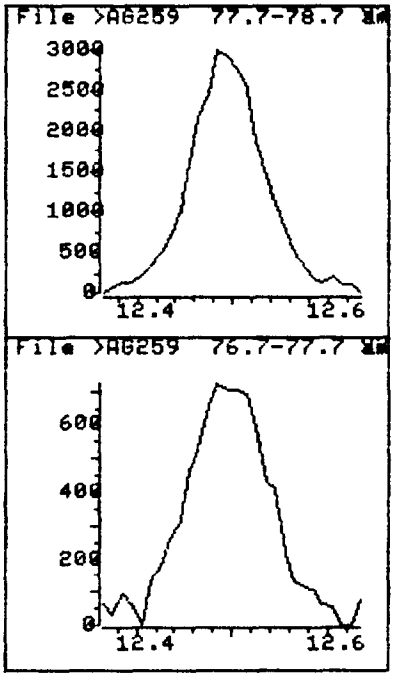


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)





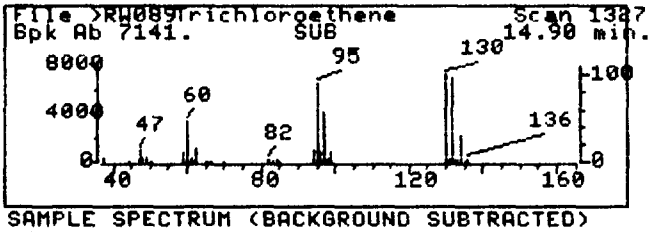
Data File: >AG259::D4
Name: 93ZE33D39DL1 10X DIL
Misc: 5/26/93, 500uL/5mL PURGE
Quant Time: 930526 15:04
Injected at: 930526 14:31
Last Qcal Time: 930526 09:30

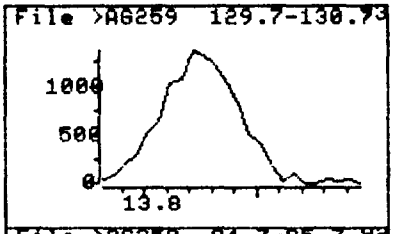
Quant Output File: ^AG259::D5
Instrument ID: HP MS#4

Quant ID File: IDAG09::QT
Last Calibration: 930525 17:54

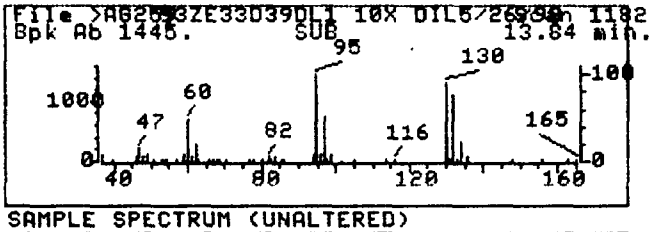
Compound No : 26
Compound Name : Benzene
Scan Number : 1046
Retention Time: 12.48 min.
Quant Ion : 78.0
Area : 16419
Concentration : 2.37 ug/L
q-value : 94

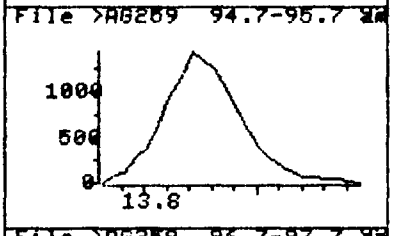
REFERENCE STANDARD SPECTRUM



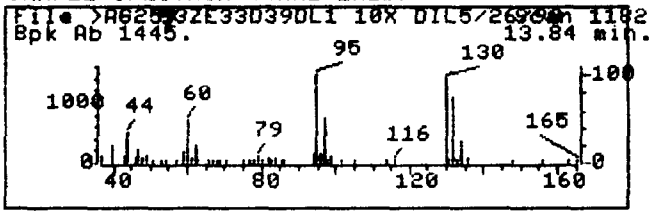


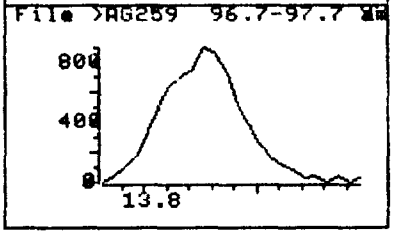
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)





SAMPLE SPECTRUM (UNALTERED)





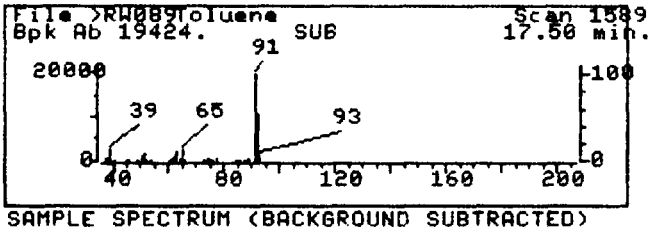
Data File: >AG259::D4
Name: 93ZE33D39DL1 10X DIL
Misc: 5/26/93, 500uL/5mL PURGE
Quant Time: 930526 15:04
Injected at: 930526 14:31
Last Qcal Time: 930526 09:30

Quant Output File: ^AG259::D5
Instrument ID: HP MS#4

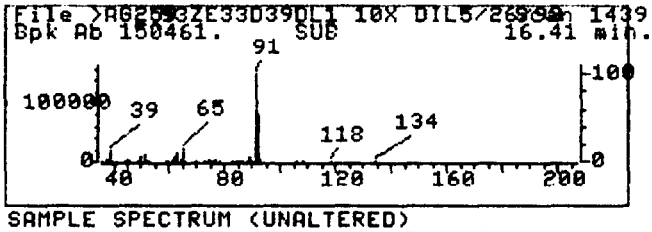
Quant ID File: IDAG09::QT
Last Calibration: 930525 17:54

Compound No : 29
Compound Name : Trichloroethene
Scan Number : 1182
Retention Time: 13.84 min.
Quant Ion : 95.0
Area : 6875
Concentration : 2.51 ug/L
q-value : 91

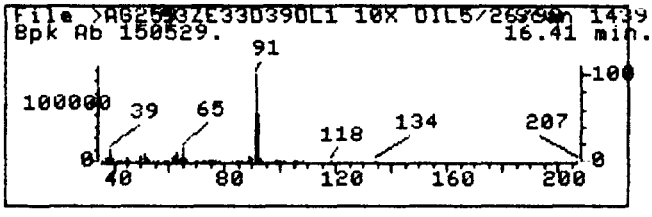
REFERENCE STANDARD SPECTRUM

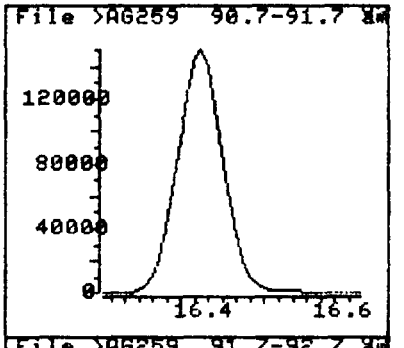


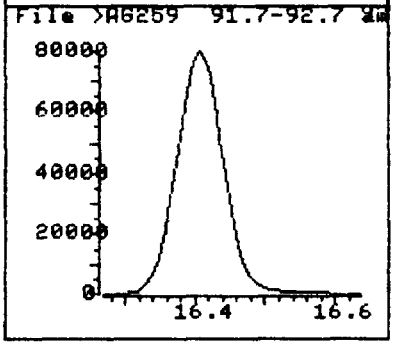
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







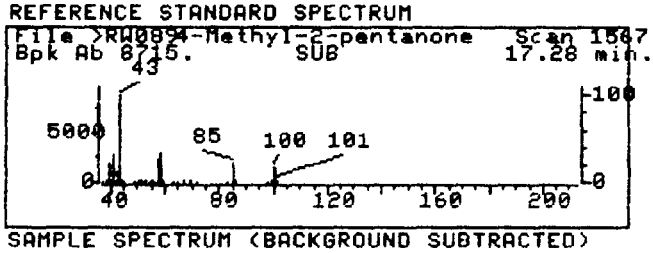
Data File: >AG259::D4
Name: 93ZE33D39DL1 10X DIL
Misc: 5/26/93, 500uL/5mL PURGE
Quant Time: 930526 15:04
Injected at: 930526 14:31
Last Qcal Time: 930526 09:30

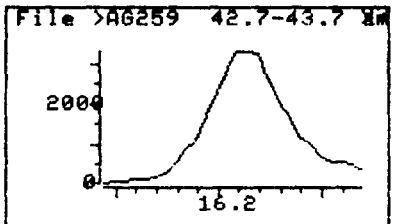
Quant Output File: ^AG259::D5
Instrument ID: HP MS#4

Quant ID File: IDAG09::QT
Last Calibration: 930525 17:54

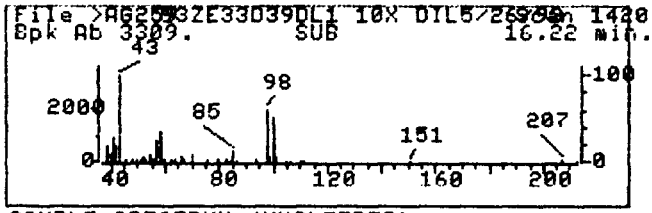
Compound No : 35
Compound Name : Toluene
Scan Number : 1439
Retention Time: 16.41 min.
Quant Ion : 92.0
Area : 373697
Concentration : 88.12 ug/L
q-value : 89

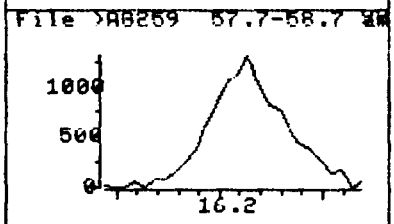
REFERENCE STANDARD SPECTRUM



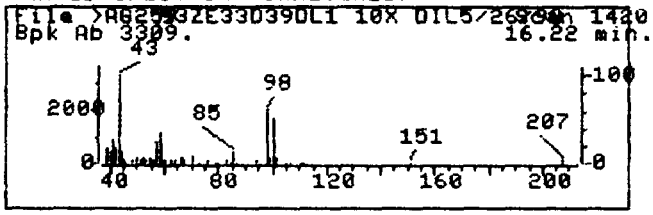


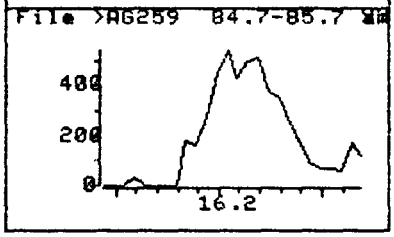
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)





SAMPLE SPECTRUM (UNALTERED)





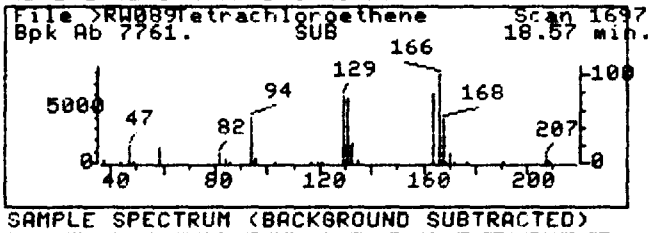
Data File: >AG259::D4
Name: 93ZE33D39DL1 10X DIL
Misc: 5/26/93, 500uL/5mL PURGE
Quant Time: 930526 15:04
Injected at: 930526 14:31
Last Qcal Time: 930526 09:30

Quant Output File: ^AG259::D5
Instrument ID: HP MS#4

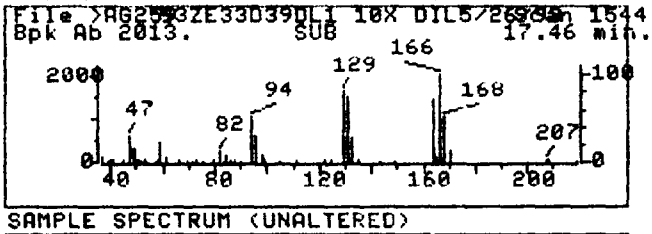
Quant ID File: IDAG09::QT
Last Calibration: 930525 17:54

Compound No : 36
Compound Name : 4-Methyl-2-pentanone
Scan Number : 1420
Retention Time: 16.22 min.
Quant Ion : 43.0
Area : 18798
Concentration : 8.23 ug/L
q-value : 90

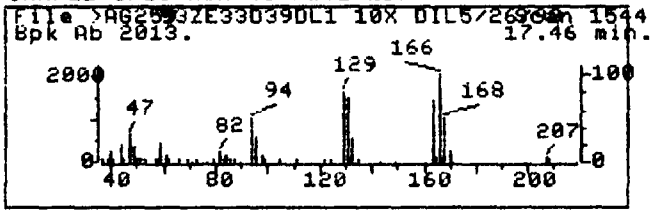
REFERENCE STANDARD SPECTRUM

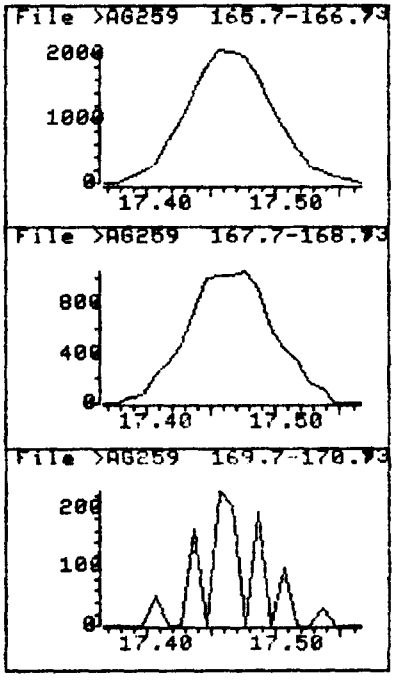


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)





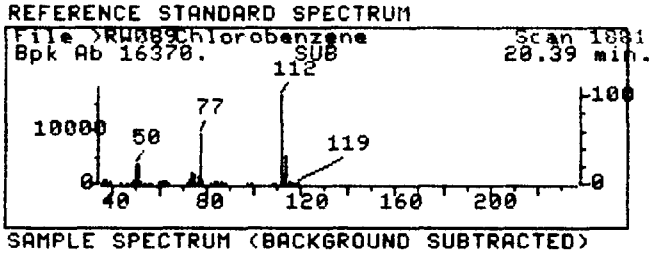
Data File: >AG259::D4
Name: 93ZE33D39DL1 10X DIL
Misc: 5/26/93, 500uL/5mL PURGE
Quant Time: 930526 15:04
Injected at: 930526 14:31
Last Qcal Time: 930526 09:30

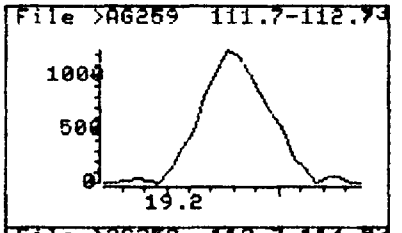
Quant Output File: ^AG259::D5
Instrument ID: HP MS#4

Quant ID File: IDAG09::QT
Last Calibration: 930525 17:54

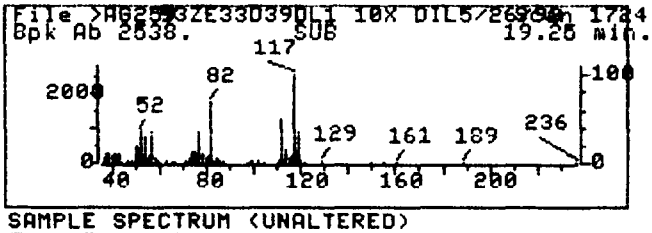
Compound No : 38
Compound Name : Tetrachloroethene
Scan Number : 1544
Retention Time: 17.46 min.
Quant Ion : 166.0
Area : 9809
Concentration : 4.42 ug/L
q-value : 96

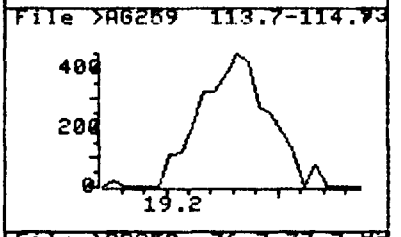
REFERENCE STANDARD SPECTRUM



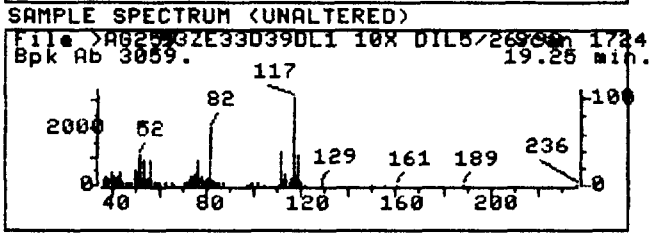


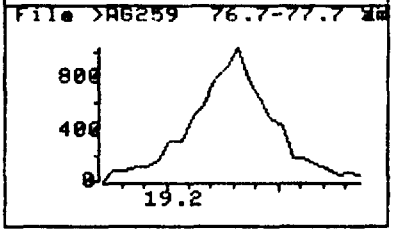
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)





SAMPLE SPECTRUM (UNALTERED)





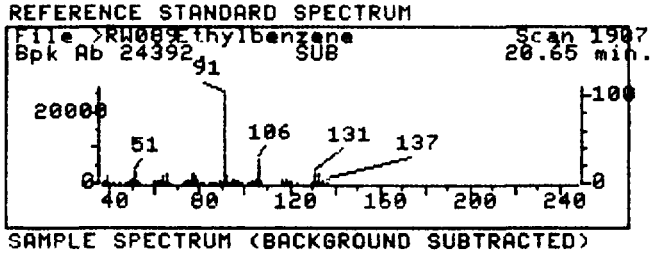
Data File: >AG259::D4
Name: 93ZE33D39DL1 10X DIL
Misc: 5/26/93, 500uL/5mL PURGE
Quant Time: 930526 15:04
Injected at: 930526 14:31
Last Qcal Time: 930526 09:30

Quant Output File: ^AG259::D5
Instrument ID: HP MS#4

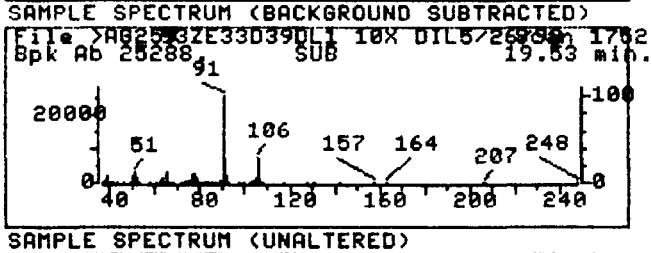
Quant ID File: IDAG09::QT
Last Calibration: 930525 17:54

Compound No : 45
Compound Name : Chlorobenzene
Scan Number : 1724
Retention Time: 19.25 min.
Quant Ion : 112.0
Area : 5323
Concentration : 1.11 ug/L
q-value : 91

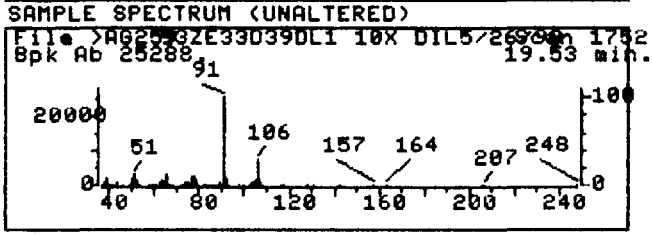
REFERENCE STANDARD SPECTRUM

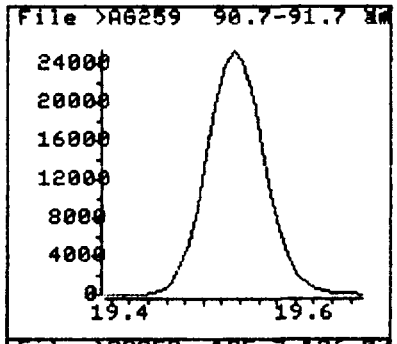


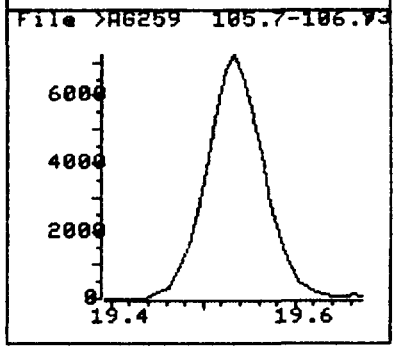
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)





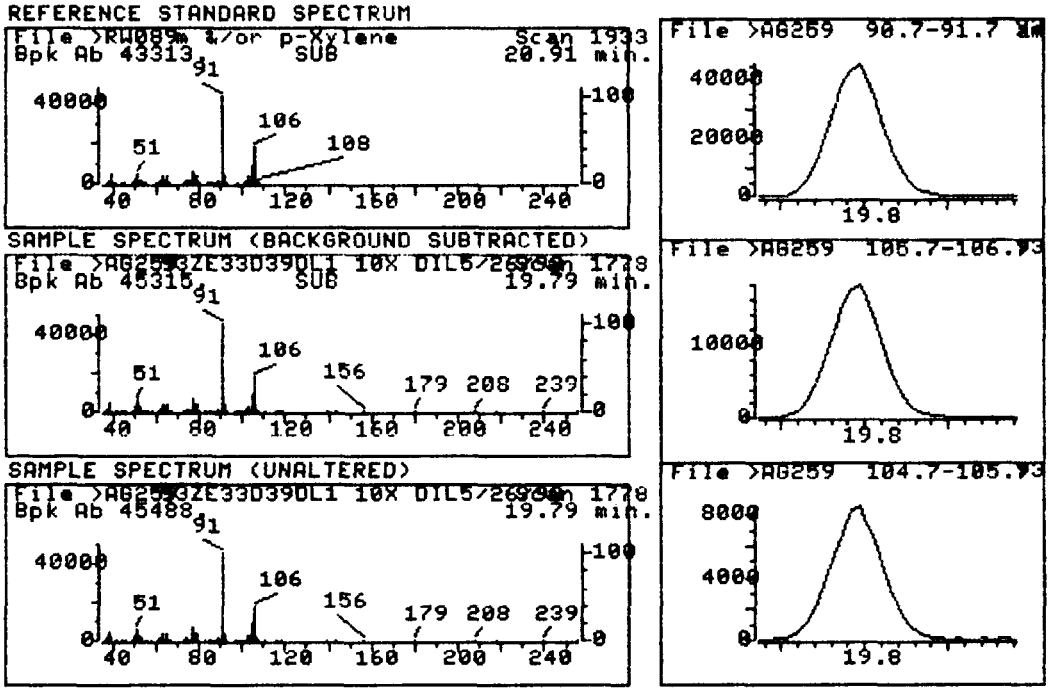


Data File: >AG259::D4
Name: 93ZE33D39DL1 10X DIL
Misc: 5/26/93, 500uL/5mL PURGE
Quant Time: 930526 15:04
Injected at: 930526 14:31
Last Qcal Time: 930526 09:30

Quant Output File: ^AG259::D5
Instrument ID: HP MS#4

Quant ID File: IDAGU9::QT
Last Calibration: 930525 17:54

Compound No : 47
Compound Name : Ethylbenzene
Scan Number : 1752
Retention Time: 19.53 min.
Quant Ion : 91.0
Area : 112870
Concentration : 12.81 ug/L
q-value : 97



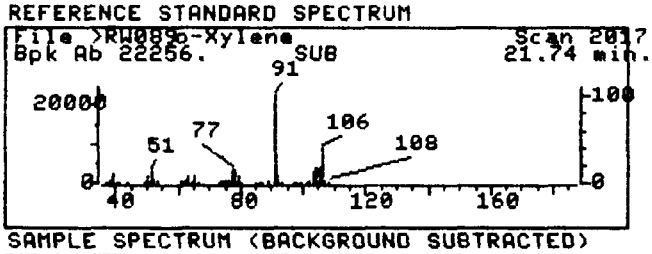
Data File: >AG259::D4
Name: 93ZE33D39DL1 10X DIL
Misc: 5/26/93, 500uL/5mL PURGE
Quant Time: 930526 15:04
Injected at: 930526 14:31
Last Qcal Time: 930526 09:30

Quant Output File: ^AG259::D5
Instrument ID: HP MS#4

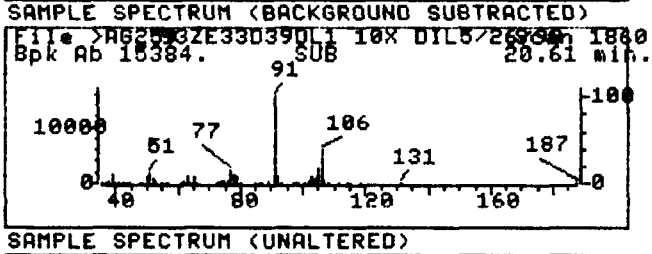
Quant ID File: IDAG09::QT
Last Calibration: 930525 17:54

Compound No : 48
Compound Name : m &/or p-Xylene
Scan Number : 1778
Retention Time: 19.79 min.
Quant Ion : 106.0
Area : 80995
Concentration : 28.35 ug/L
q-value : 77

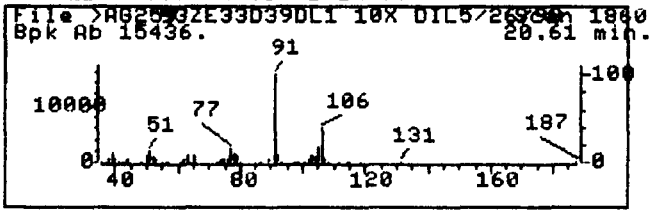
REFERENCE STANDARD SPECTRUM

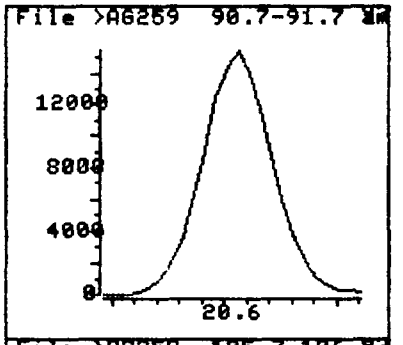


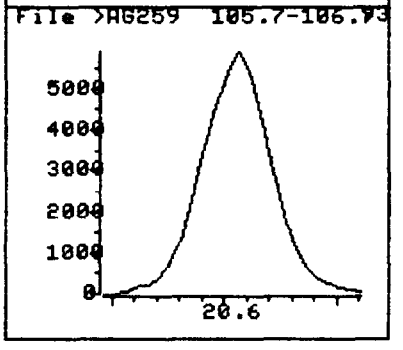
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







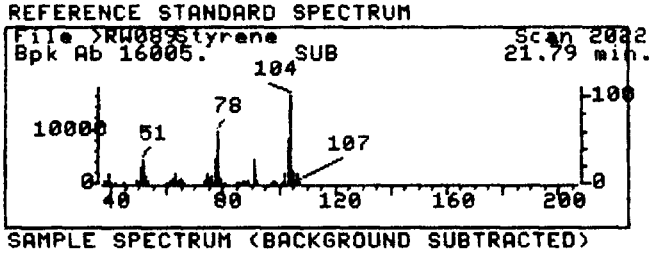
Data File: >AG259::D4
Name: 93ZE33D39DL1 10X DIL
Misc: 5/26/93, 500uL/5mL PURGE
Quant Time: 930526 15:04
Injected at: 930526 14:31
Last Qcal Time: 930526 09:30

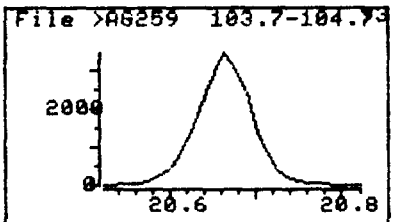
Quant Output File: ^AG259::D5
Instrument ID: HP MS#4

Quant ID File: IDAGU9::QT
Last Calibration: 930525 17:54

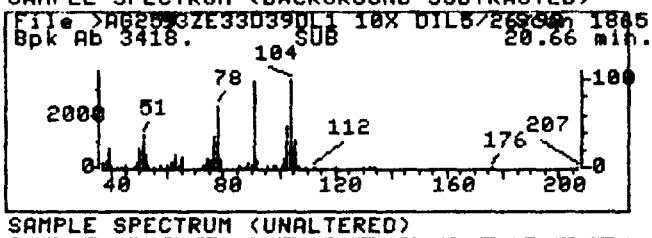
Compound No : 49
Compound Name : o-Xylene
Scan Number : 1860
Retention Time: 20.61 min.
Quant Ion : 106.0
Area : 25761
Concentration : 9.83 ug/L
q-value : 91

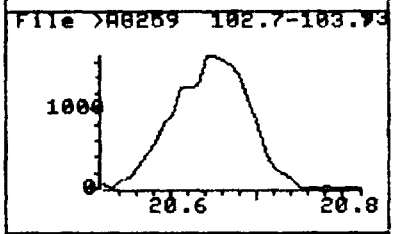
REFERENCE STANDARD SPECTRUM



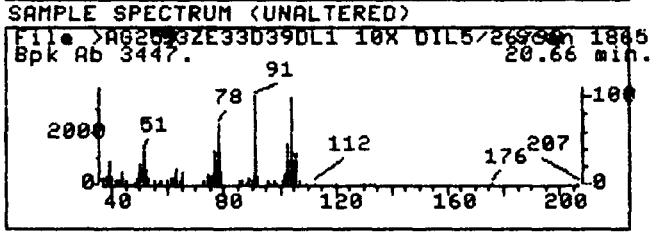


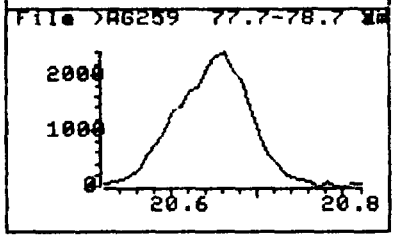
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)





SAMPLE SPECTRUM (UNALTERED)



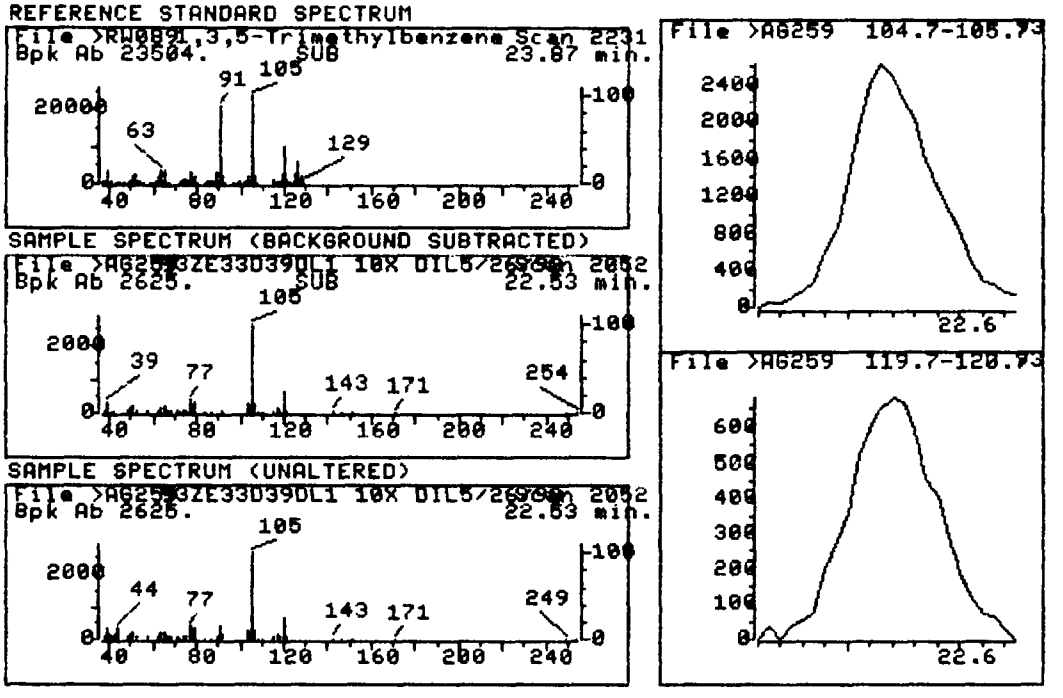


Data File: >AG259::D4
Name: 93ZE33D39DL1 10X DIL
Misc: 5/26/93, 500uL/5mL PURGE
Quant Time: 930526 15:04
Injected at: 930526 14:31
Last Qcal Time: 930526 09:30

Quant Output File: ^AG259::D5
Instrument ID: HP MS#4

Quant ID File: IDAG09::QT
Last Calibration: 930525 17:54

Compound No : 50
Compound Name : Styrene
Scan Number : 1865
Retention Time: 20.66 min.
Quant Ion : 104.0
Area : 15695
Concentration : 3.48 ug/L
q-value : 83

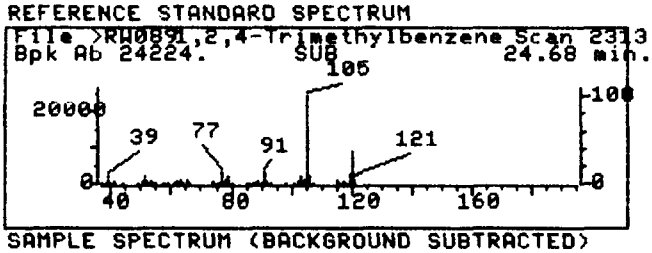


Data File: >AG259::D4
Name: 93ZE33D39DL1 10X DIL
Misc: 5/26/93, 500uL/5mL PURGE
Quant Time: 930526 15:04
Injected at: 930526 14:31
Last Qcal Time: 930526 09:30

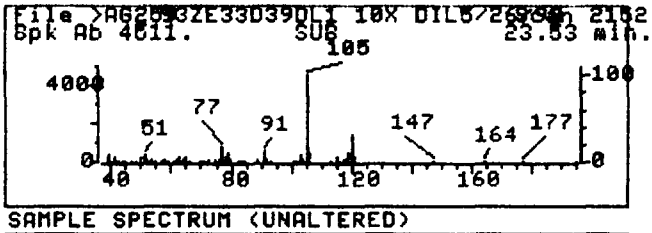
Quant Output File: ^AG259::D5
Instrument ID: HP MS#4
Quant ID File: IDAG09::QT
Last Calibration: 930525 17:54

Compound No : 60
Compound Name : 1,3,5-Trimethylbenzene
Scan Number : 2052
Retention Time: 22.53 min.
Quant Ion : 105.0
Area : 14009
Concentration : 1.98 ug/L
q-value : 60

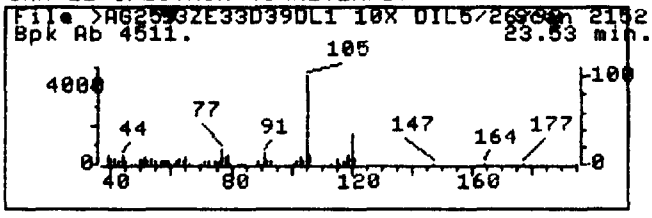
REFERENCE STANDARD SPECTRUM

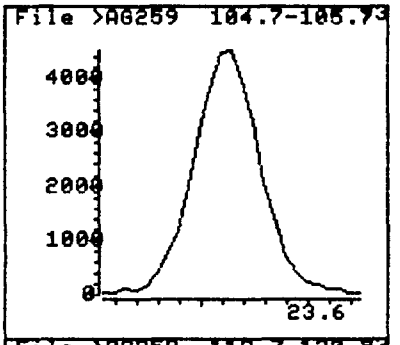


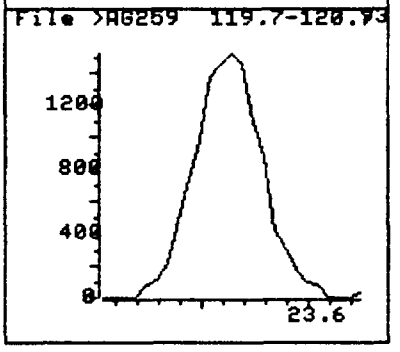
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



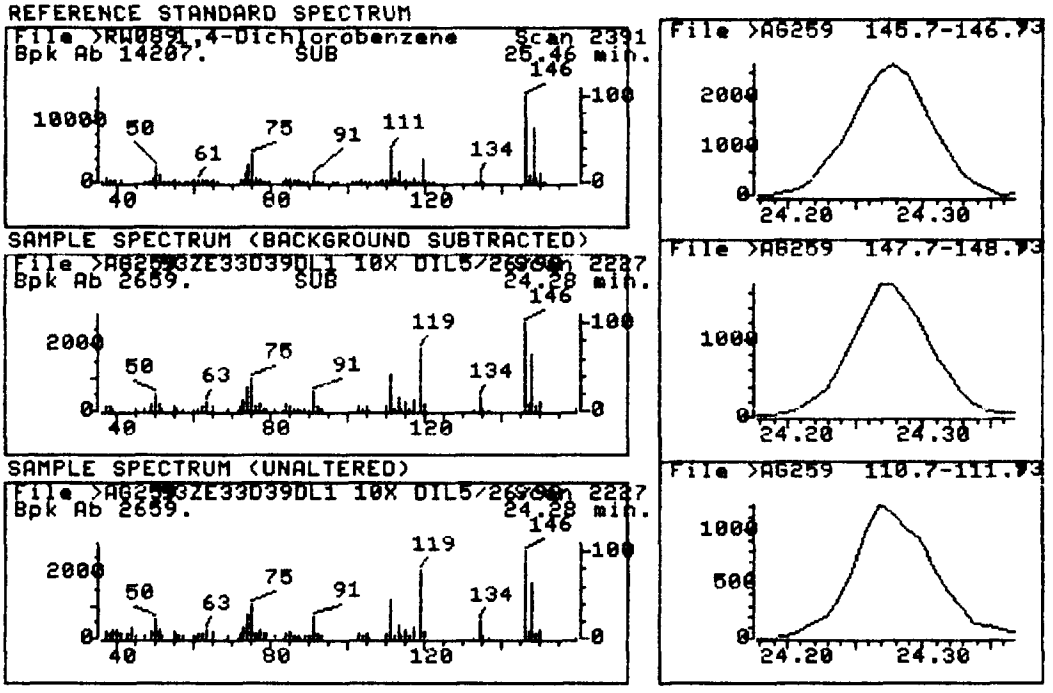




Data File: >AG259::D4
Name: 93ZE33D39DL1 10X DIL
Misc: 5/26/93, 500uL/5mL PURGE
Quant Time: 930526 15:04
Injected at: 930526 14:31
Last Qcal Time: 930526 09:30

Quant Output File: ^AG259::D5
Instrument ID: HP MS#4
Quant ID File: IDAGU9::QT
Last Calibration: 930525 17:54

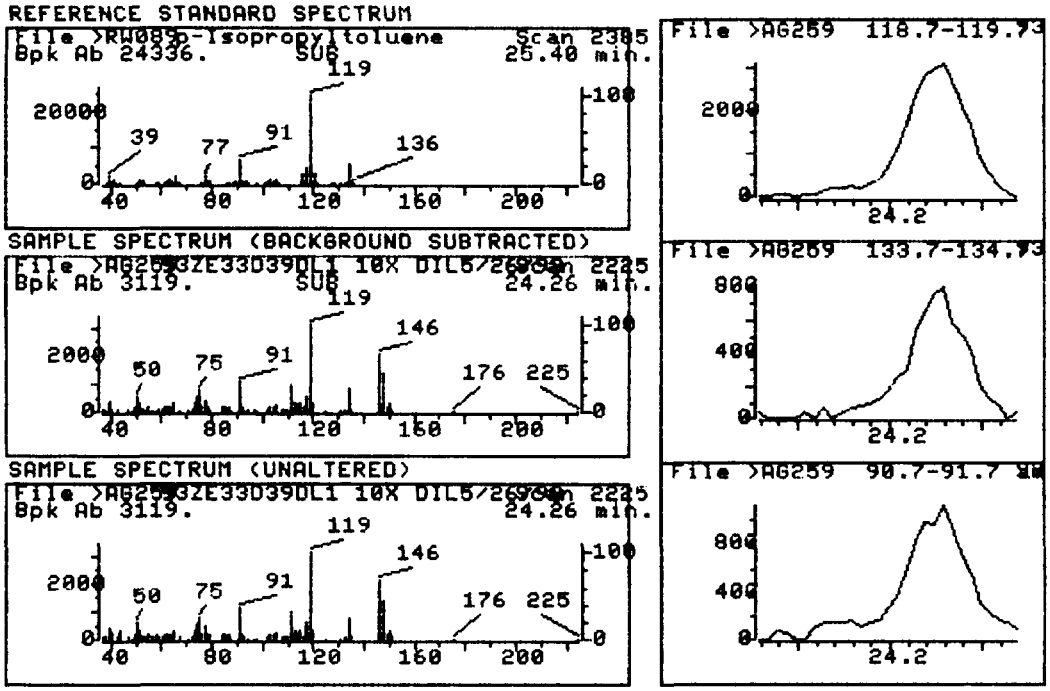
Compound No : 62
Compound Name : 1,2,4-Trimethylbenzene
Scan Number : 2152
Retention Time: 23.53 min.
Quant Ion : 105.0
Area : 19375
Concentration : 2.75 ug/L
q-value : 79



Data File: >AG259::D4
Name: 93ZE33D39DL1 10X DIL
Misc: 5/26/93, 500uL/5mL PURGE
Quant Time: 930526 15:04
Injected at: 930526 14:31
Last Qcal Time: 930526 09:30

Quant Output File: ^AG259::D5
Instrument ID: HP MS#4
Quant ID File: IDAGU9::QT
Last Calibration: 930525 17:54

Compound No : 65
Compound Name : 1,4-Dichlorobenzene
Scan Number : 2227
Retention Time: 24.28 min.
Quant Ion : 146.0
Area : 11295
Concentration : 2.85 ug/L
q-value : 97

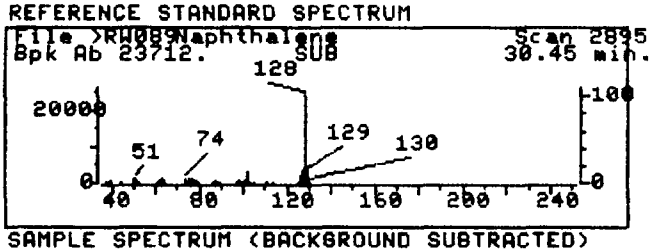


Data File: >AG259::D4
Name: 93ZE33D39DL1 10X DIL
Misc: 5/26/93, 500uL/5mL PURGE
Quant Time: 930526 15:04
Injected at: 930526 14:31
Last Qcal Time: 930526 09:30

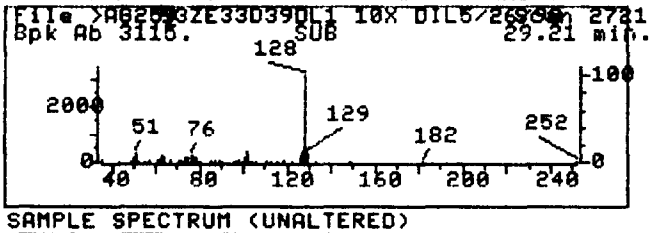
Quant Output File: ^AG259::D5
Instrument ID: HP MS#4
Quant ID File: IDAGU9::QT
Last Calibration: 930525 17:54

Compound No : 66
Compound Name : p-Isopropyltoluene
Scan Number : 2225
Retention Time: 24.26 min.
Quant Ion : 119.0
Area : 15235
Concentration : 2.21 ug/L
q-value : 87

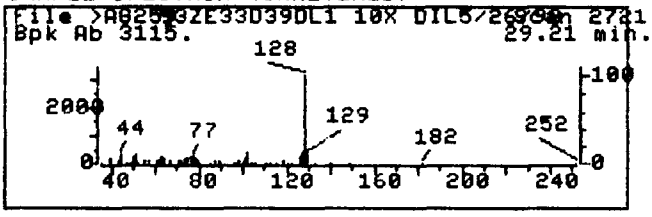
REFERENCE STANDARD SPECTRUM

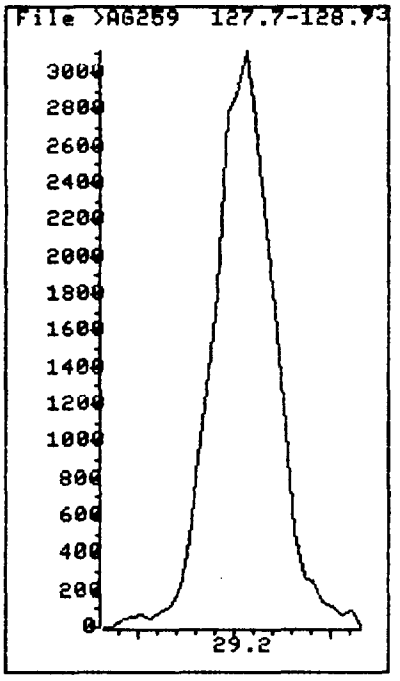


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)





Data File: >AG259::D4
Name: 93ZE33D39DL1 10X DIL
Misc: 5/26/93, 500uL/5mL PURGE
Quant Time: 930526 15:04
Injected at: 930526 14:31
Last Qcal Time: 930526 09:30

Quant Output File: ^AG259::D5
Instrument ID: HP MS#4

Quant ID File: IDAG09::QT
Last Calibration: 930525 17:54

Compound No : 72
Compound Name : Naphthalene
Scan Number : 2721
Retention Time: 29.21 min.
Quant Ion : 128.0
Area : 13876
Concentration : 2.25 ug/L
q-value : 100

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93ZE33S36MS

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE33S36MS

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG264

Level: (low/med) LOW Date Received: 05/14/93

% Moisture: not dec. ---- Date Analyzed: 05/26/93

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	2	J
74-87-3	Chloromethane	1	J
75-01-4	Vinyl chloride	4	
74-83-9	Bromomethane	4	
75-00-3	Chloroethane	3	
75-69-4	Trichlorofluoromethane	4	
107-64-1	Acrolein	10	U
75-35-4	1,1-Dichloroethene	11	
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	2	U
75-09-2	Methylene chloride	11	
75-35-4	trans-1,2-Dichloroethene	11	
107-13-1	Acrylonitrile	10	U
75-34-3	1,1-Dichloroethane	10	
108-05-4	Vinyl acetate	10	U
594-20-7	2,2-Dichloropropane	14	
540-59-0	cis-1,2-Dichloroethene	13	
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	14	
67-66-3	Chloroform	15	
71-55-6	1,1,1-Trichloroethane	19	
56-23-5	Carbon tetrachloride	20	
563-58-6	1,1-Dichloropropene	13	
71-43-2	Benzene	11	
107-06-2	1,2-Dichloroethane	11	
79-01-6	Trichloroethene	11	
78-87-5	1,2-Dichloropropane	11	
74-95-3	Dibromomethane	11	
110-75-8	2-Chloroethyl vinylether	10	U
75-27-4	Bromodichloromethane	10	
10061015	cis-1,3-Dichloropropene	10	
108-88-3	Toluene	11	
108-10-1	4-Methyl-2-pentanone	5	U
10061026	trans-1,3-Dichloropropene	10	

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93ZE33S36MS

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE33S36MS

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG264

Level: (low/med) LOW Date Received: 05/14/93

% Moisture: not dec. ---- Date Analyzed: 05/26/93

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	11	
79-00-5	1,1,2-Trichloroethane	9	
142-28-9	1,3-Dichloropropane	10	
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	11	
106-93-4	1,2-Dibromoethane	10	
108-90-7	Chlorobenzene	11	
630-20-6	1,1,1,2-Tetrachloroethane	11	
100-41-4	Ethylbenzene	10	
108-38-3	m &/or p-Xylene	22	
95-47-6	o-Xylene	11	
100-42-5	Styrene	11	
75-25-2	Bromoform	10	
98-82-8	Isopropylbenzene	10	
108-86-1	Bromobenzene	11	
96-18-4	1,2,3-Trichloropropane	9	
79-34-5	1,1,2,2-Tetrachloroethane	9	
103-65-1	n-Propylbenzene	11	
95-49-8	2-Chlorotoluene	11	
106-43-4	4-Chlorotoluene	11	
108-67-8	1,3,5-Trimethylbenzene	11	
98-06-6	tert-Butylbenzene	11	
95-63-6	1,2,4-Trimethylbenzene	11	
135-98-8	sec-Butylbenzene	11	
541-73-1	1,3-Dichlorobenzene	11	
106-46-7	1,4-Dichlorobenzene	11	
99-87-6	p-Isopropyltoluene	10	
95-50-1	1,2-Dichlorobenzene	11	
104-51-8	n-Butylbenzene	10	
96-12-8	1,2-Dibromo-3-chloropropane	9	
120-82-1	1,2,4-Trichlorobenzene	11	
91-20-3	Naphthalene	9	
87-68-3	Hexachlorobutadiene	12	
87-61-6	1,2,3-Trichlorobenzene	11	

QUANT REPORT

Operator ID: TONY
Output File: ^AG264::D5
Data File: >AG264::D4
Name: 93ZE33S36MS SF1187
Misc: 5/26/93, 5mL PURGE

Quant Rev: 7
Quant Time: 930526 18:31
Injected at: 930526 17:58
Dilution Factor: 1.00000
Instrument ID: HP MS#4

ID File: IDAG09::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54
Last Qcal Time: 930526 09:30

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.12	96.0	61616	10.00	ug/L	98
2)	Dichlorodifluoromethane	2.89	85.0	6122	2.01	ug/L	94
3)	Chloromethane	3.22	50.0	3785	1.39	ug/L	91
4)	Vinyl chloride	3.48	62.0	10060	3.64	ug/L	93
5)	Bromomethane	4.17	94.0	6223	3.56	ug/L	95
6)	Chloroethane	4.41	64.0	4512	3.45	ug/L	98
7)	Trichlorofluoromethane	4.99	101.0	14263	4.41	ug/L	94
9)	1,1-Dichloroethene	6.46	96.0	19233	11.29	ug/L	92
12)	Methylene chloride	7.92	84.0	22810	11.06	ug/L	97
13)	trans-1,2-Dichloroethene	8.52	96.0	19676	10.61	ug/L	99
15)	1,1-Dichloroethane	9.51	63.0	33643	10.11	ug/L	99
17)	2,2-Dichloropropane	10.72	77.0	28599	13.58	ug/L	98
18)	cis-1,2-Dichloroethene	10.80	96.0	21520	13.17	ug/L	87
20)	Bromochloromethane	11.26	128.0	12161	14.21	ug/L	96
21)	Chloroform	11.54	83.0	47013	14.82	ug/L	96
22)	1,1,1-Trichloroethane	11.73	97.0	40814	18.69	ug/L	96
23)	Carbon tetrachloride	12.02	117.0	29682	19.86	ug/L	95
24)	1,1-Dichloropropene	12.08	75.0	27322	13.34	ug/L	93
25)	BENZENE-D6	12.41	84.0	59727	10.16	ug/L	98
26)	Benzene	12.49	78.0	71764	11.32	ug/L	99
27)	1,2-Dichloroethane	12.63	62.0	39722	10.72	ug/L	96
28)	*TOLUENE-D8	16.28	98.0	60629	10.00	ug/L	95
29)	Trichloroethene	13.85	95.0	27016	10.78	ug/L	82
30)	1,2-Dichloropropane	14.31	63.0	20156	10.84	ug/L	98
31)	Dibromomethane	14.54	174.0	17674	10.75	ug/L	95
33)	Bromodichloromethane	14.94	83.0	32949	10.21	ug/L	92
34)	cis-1,3-Dichloropropene	15.83	75.0	31155	9.70	ug/L	94
35)	Toluene	16.41	92.0	44075	11.37	ug/L	89
37)	trans-1,3-Dichloropropene	17.00	75.0	30461	10.21	ug/L	95
38)	Tetrachloroethene	17.46	166.0	22409	11.05	ug/L	96
39)	1,1,2-Trichloroethane	17.34	132.0	1576	9.34	ug/L	97
40)	1,3-Dichloropropane	17.64	76.0	30231	9.92	ug/L	98
42)	Dibromochloromethane	18.08	129.0	24467	10.75	ug/L	99
43)	1,2-Dibromoethane	18.23	107.0	20893	9.83	ug/L	94
44)	*CHLOROBENZENE-D5	19.20	117.0	47438	10.00	ug/L	99
45)	Chlorobenzene	19.25	112.0	46899	10.61	ug/L	93
46)	1,1,1,2-Tetrachloroethane	19.48	131.0	19582	11.06	ug/L	91
47)	Ethylbenzene	19.53	91.0	83109	10.28	ug/L	92
48)	m &/or p-Xylene	19.79	106.0	57010	21.74	ug/L	77
49)	o-Xylene	20.61	106.0	26242	10.91	ug/L	88

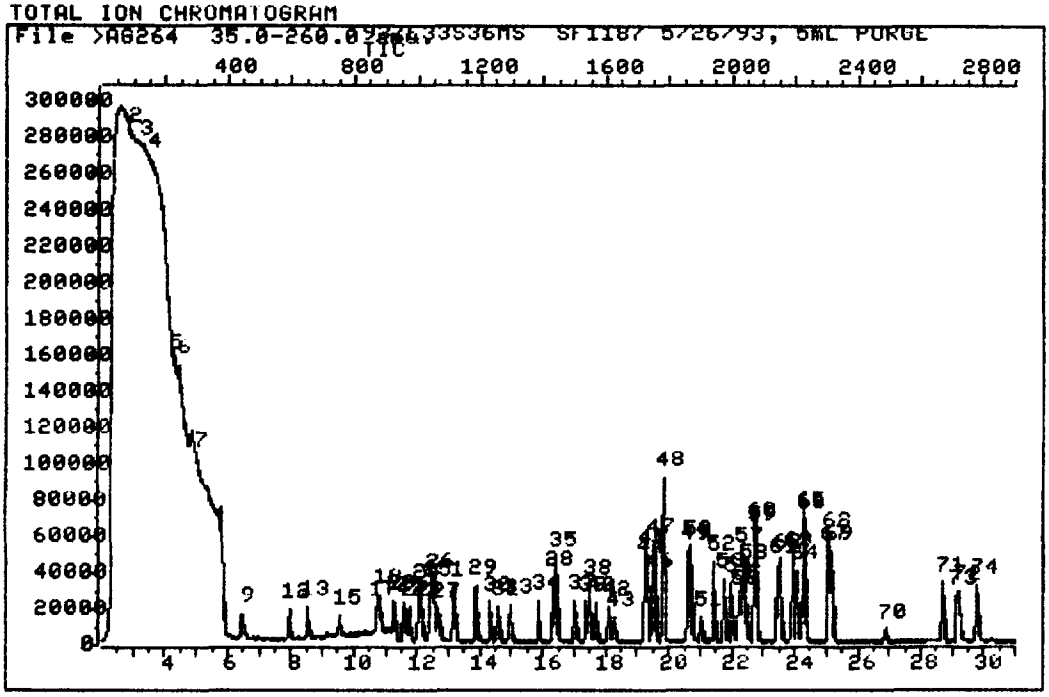
Operator ID: TONY Quant Rev: 7 Quant Time: 930526 18:31
Output File: ^AG264::D5 Injected at: 930526 17:58
Data File: >AG264::D4 Dilution Factor: 1.00000
Name: 93ZE33S36MS SF1187 Instrument ID: HP MS#4
Misc: 5/26/93, 5mL PURGE

ID File: IDAG09::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54 Last Qcal Time: 930526 09:30

	Compound	R.T.	Q ion	Area	Conc	Units	q
50)	Styrene	20.66	104.0	47490	11.48	ug/L	89
51)	Bromoform	21.02	173.0	14736	9.80	ug/L	95
52)	Isopropylbenzene	21.42	105.0	74018	10.17	ug/L	92
53)	p-BROMOFLUOROBENZENE	21.73	174.0	22559	10.29	ug/L	95
54)	Bromobenzene	21.98	156.0	21531	10.61	ug/L	98
55)	1,2,3-Trichloropropane	22.21	75.0	19063	9.46	ug/L	88
56)	1,1,2,2-Tetrachloroethane	22.20	83.0	16113	9.24	ug/L	95
57)	n-Propylbenzene	22.31	120.0	19149	10.87	ug/L	99
58)	2-Chlorotoluene	22.43	126.0	17246	10.69	ug/L	93
59)	4-Chlorotoluene	22.69	126.0	18489	11.13	ug/L	88
60)	1,3,5-Trimethylbenzene	22.73	105.0	69238	10.67	ug/L	85
61)	tert-Butylbenzene	23.41	119.0	52205	10.84	ug/L	76
62)	1,2,4-Trimethylbenzene	23.52	105.0	70212	10.85	ug/L	84
63)	sec-Butylbenzene	23.89	105.0	83118	10.76	ug/L	92
64)	1,3-Dichlorobenzene	24.07	146.0	37812	10.78	ug/L	92
65)	1,4-Dichlorobenzene	24.28	146.0	38556	10.60	ug/L	96
66)	p-Isopropyltoluene	24.25	119.0	64612	10.22	ug/L	86
67)	1,2-DICHLOROBENZENE-D4	25.02	152.0	23808	10.29	ug/L	97
68)	1,2-Dichlorobenzene	25.06	146.0	36252	11.04	ug/L	91
69)	n-Butylbenzene	25.15	91.0	70032	10.45	ug/L	88
70)	1,2-Dibromo-3-chloropropane	26.85	157.0	4144	9.07	ug/L	89
71)	1,2,4-Trichlorobenzene	28.68	180.0	25104	10.93	ug/L	94
72)	Naphthalene	29.21	128.0	49663	8.79	ug/L	100
73)	Hexachlorobutadiene	29.12	225.0	16664	12.30	ug/L	97
74)	1,2,3-Trichlorobenzene	29.77	180.0	23806	10.80	ug/L	93

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG264::D4 Quant Output File: ^AG264::D5
Name: 93ZE33S36MS SF1187 Instrument ID: HP MS#4
Misc: 5/26/93, 5mL PURGE

Id File: IDAG09::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54 Last Qcal Time: 930526 09:30

Operator ID: TONY
Quant Time : 930526 18:31
Injected at: 930526 17:58

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93ZE33S36MSD

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE33S36MSD

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG265

Level: (low/med) LOW Date Received: 05/14/93

% Moisture: not dec. ---- Date Analyzed: 05/26/93

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	2	J
74-87-3	Chloromethane	3	U
75-01-4	Vinyl chloride	2	J
74-83-9	Bromomethane	3	
75-00-3	Chloroethane	3	J
75-69-4	Trichlorofluoromethane	5	
107-64-1	Acrolein	10	U
75-35-4	1,1-Dichloroethene	12	
67-64-1	Acetone	6	J
75-15-0	Carbon disulfide	2	U
75-09-2	Methylene chloride	11	
75-35-4	trans-1,2-Dichloroethene	11	
107-13-1	Acrylonitrile	10	U
75-34-3	1,1-Dichloroethane	11	
108-05-4	Vinyl acetate	10	U
594-20-7	2,2-Dichloropropane	14	
540-59-0	cis-1,2-Dichloroethene	13	
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	14	
67-66-3	Chloroform	16	
71-55-6	1,1,1-Trichloroethane	19	
56-23-5	Carbon tetrachloride	20	
563-58-6	1,1-Dichloropropene	14	
71-43-2	Benzene	11	
107-06-2	1,2-Dichloroethane	11	
79-01-6	Trichloroethene	11	
78-87-5	1,2-Dichloropropane	11	
74-95-3	Dibromomethane	11	
110-75-8	2-Chloroethyl vinylether	10	U
75-27-4	Bromodichloromethane	11	
10061015	cis-1,3-Dichloropropene	10	
108-88-3	Toluene	12	
108-10-1	4-Methyl-2-pentanone	5	U
10061026	trans-1,3-Dichloropropene	11	

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93ZE33S36MSD

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE33S36MSD

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG265

Level: (low/med) LOW Date Received: 05/14/93

% Moisture: not dec. ---- Date Analyzed: 05/26/93

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	11	
79-00-5	1,1,2-Trichloroethane	10	
142-28-9	1,3-Dichloropropane	11	
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	11	
106-93-4	1,2-Dibromoethane	11	
108-90-7	Chlorobenzene	11	
630-20-6	1,1,1,2-Tetrachloroethane	11	
100-41-4	Ethylbenzene	11	
108-38-3	m &/or p-Xylene	22	
95-47-6	o-Xylene	11	
100-42-5	Styrene	12	
75-25-2	Bromoform	11	
98-82-8	Isopropylbenzene	11	
108-86-1	Bromobenzene	11	
96-18-4	1,2,3-Trichloropropane	10	
79-34-5	1,1,2,2-Tetrachloroethane	12	
103-65-1	n-Propylbenzene	11	
95-49-8	2-Chlorotoluene	11	
106-43-4	4-Chlorotoluene	12	
108-67-8	1,3,5-Trimethylbenzene	11	
98-06-6	tert-Butylbenzene	11	
95-63-6	1,2,4-Trimethylbenzene	11	
135-98-8	sec-Butylbenzene	11	
541-73-1	1,3-Dichlorobenzene	11	
106-46-7	1,4-Dichlorobenzene	11	
99-87-6	p-Isopropyltoluene	10	
95-50-1	1,2-Dichlorobenzene	11	
104-51-8	n-Butylbenzene	10	
96-12-8	1,2-Dibromo-3-chloropropane	10	
120-82-1	1,2,4-Trichlorobenzene	11	
91-20-3	Naphthalene	10	
87-68-3	Hexachlorobutadiene	10	
87-61-6	1,2,3-Trichlorobenzene	11	

QUANT REPORT

Operator ID: TONY
Output File: ^AG265::D5
Data File: >AG265::D4
Name: 93ZE33S36MSD SF1187
Misc: 5/26/93, 5mL PURGE

Quant Rev: 7
Quant Time: 930526 19:11
Injected at: 930526 18:38
Dilution Factor: 1.00000
Instrument ID: HP MS#4

ID File: IDAG09::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54
Last Qcal Time: 930526 09:30

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.12	96.0	58396	10.00	ug/L	97
2)	Dichlorodifluoromethane	2.89	85.0	6341	2.19	ug/L	95
4)	Vinyl chloride	3.45	62.0	5005	1.91	ug/L	92
5)	Bromomethane	4.16	94.0	5098	3.08	ug/L	89
6)	Chloroethane	4.40	64.0	3530	2.85	ug/L	95
7)	Trichlorofluoromethane	4.98	101.0	16156	5.27	ug/L	96
9)	1,1-Dichloroethene	6.45	96.0	19004	11.77	ug/L	88
10)	Acetone	6.90	43.0	2242	5.84	ug/L	68
12)	Methylene chloride	7.91	84.0	21852	11.18	ug/L	87
13)	trans-1,2-Dichloroethene	8.53	96.0	19380	11.03	ug/L	92
15)	1,1-Dichloroethane	9.52	63.0	33426	10.60	ug/L	96
17)	2,2-Dichloropropane	10.73	77.0	27270	13.66	ug/L	92
18)	cis-1,2-Dichloroethene	10.80	96.0	20800	13.43	ug/L	92
20)	Bromochloromethane	11.27	128.0	11757	14.50	ug/L	95
21)	Chloroform	11.55	83.0	46957	15.62	ug/L	97
22)	1,1,1-Trichloroethane	11.72	97.0	38996	18.84	ug/L	95
23)	Carbon tetrachloride	12.04	117.0	28467	20.10	ug/L	94
24)	1,1-Dichloropropene	12.09	75.0	26900	13.86	ug/L	97
25)	BENZENE-D6	12.41	84.0	57206	10.26	ug/L	93
26)	Benzene	12.48	78.0	68538	11.41	ug/L	99
27)	1,2-Dichloroethane	12.63	62.0	39954	11.38	ug/L	99
28)	*TOLUENE-D8	16.28	98.0	56894	10.00	ug/L	98
29)	Trichloroethene	13.85	95.0	25374	10.79	ug/L	86
30)	1,2-Dichloropropane	14.30	63.0	19192	11.00	ug/L	95
31)	Dibromomethane	14.54	174.0	17115	11.09	ug/L	96
33)	Bromodichloromethane	14.94	83.0	31855	10.52	ug/L	97
34)	cis-1,3-Dichloropropene	15.83	75.0	30431	10.09	ug/L	95
35)	Toluene	16.41	92.0	43406	11.93	ug/L	93
37)	trans-1,3-Dichloropropene	16.99	75.0	30801	11.00	ug/L	99
38)	Tetrachloroethene	17.47	166.0	21526	11.31	ug/L	97
39)	1,1,2-Trichloroethane	17.35	132.0	1598	10.09	ug/L	89
40)	1,3-Dichloropropane	17.64	76.0	30129	10.53	ug/L	99
42)	Dibromochloromethane	18.07	129.0	24335	11.39	ug/L	92
43)	1,2-Dibromoethane	18.23	107.0	21063	10.56	ug/L	99
44)	*CHLOROBENZENE-D5	19.21	117.0	44943	10.00	ug/L	99
45)	Chlorobenzene	19.27	112.0	45738	10.92	ug/L	91
46)	1,1,1,2-Tetrachloroethane	19.49	131.0	19264	11.48	ug/L	94
47)	Ethylbenzene	19.53	91.0	81434	10.63	ug/L	93
48)	m &/or p-Xylene	19.79	106.0	55041	22.16	ug/L	78
49)	o-Xylene	20.62	106.0	25834	11.34	ug/L	93

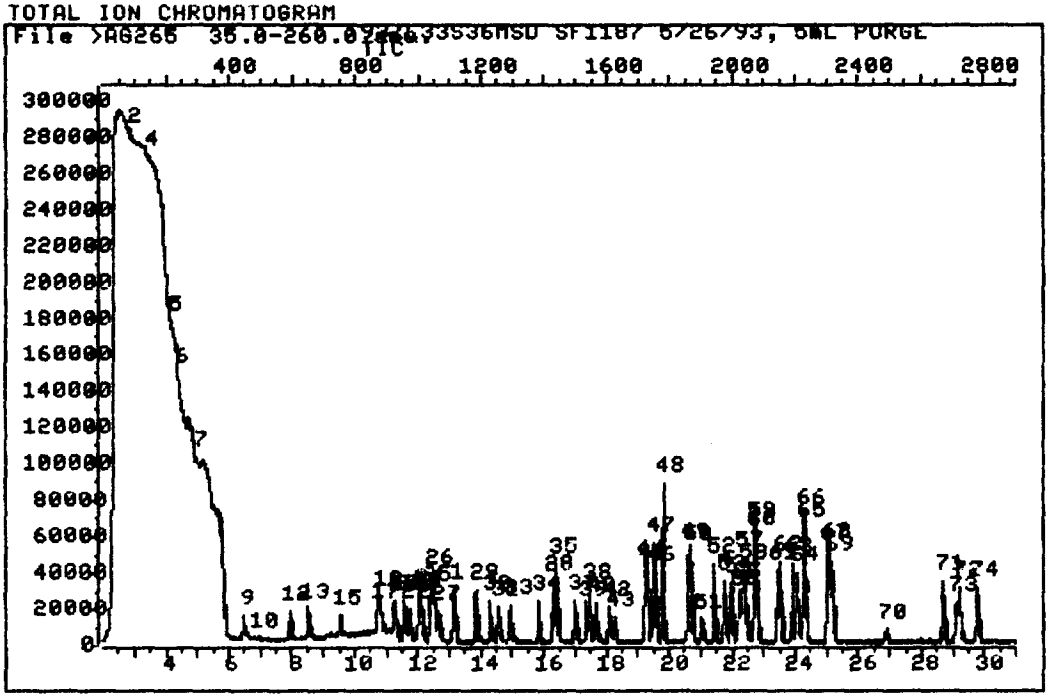
Operator ID: TONY Quant Rev: 7 Quant Time: 930526 19:11
Output File: ^AG265::D5 Injected at: 930526 18:38
Data File: >AG265::D4 Dilution Factor: 1.00000
Name: 93ZE33S36MSD SF1187 Instrument ID: HP MS#4
Misc: 5/26/93, 5mL PURGE

ID File: IDAG09::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54 Last Qcal Time: 930526 09:30

	Compound	R.T.	Q ion	Area	Conc	Units	q
50)	Styrene	20.67	104.0	46368	11.84	ug/L	89
51)	Bromoform	21.02	173.0	15205	10.67	ug/L	90
52)	Isopropylbenzene	21.43	105.0	72595	10.53	ug/L	90
53)	p-BROMOFLUOROBENZENE	21.74	174.0	21365	10.28	ug/L	96
54)	Bromobenzene	21.99	156.0	20745	10.79	ug/L	96
55)	1,2,3-Trichloropropane	22.22	75.0	19666	10.30	ug/L	86
56)	1,1,2,2-Tetrachloroethane	22.20	83.0	19352	11.72	ug/L	91
57)	n-Propylbenzene	22.32	120.0	18539	11.11	ug/L	94
58)	2-Chlorotoluene	22.44	126.0	17103	11.19	ug/L	92
59)	4-Chlorotoluene	22.70	126.0	18206	11.57	ug/L	90
60)	1,3,5-Trimethylbenzene	22.74	105.0	67994	11.06	ug/L	78
61)	tert-Butylbenzene	23.41	119.0	49838	10.93	ug/L	78
62)	1,2,4-Trimethylbenzene	23.53	105.0	67932	11.08	ug/L	85
63)	sec-Butylbenzene	23.89	105.0	78774	10.76	ug/L	90
64)	1,3-Dichlorobenzene	24.06	146.0	36906	11.11	ug/L	89
65)	1,4-Dichlorobenzene	24.29	146.0	37398	10.85	ug/L	95
66)	p-Isopropyltoluene	24.26	119.0	61394	10.25	ug/L	86
67)	1,2-DICHLOROBENZENE-D4	25.03	152.0	22718	10.36	ug/L	99
68)	1,2-Dichlorobenzene	25.07	146.0	35075	11.27	ug/L	90
69)	n-Butylbenzene	25.16	91.0	64636	10.18	ug/L	90
70)	1,2-Dibromo-3-chloropropane	26.87	157.0	4192	9.68	ug/L	84
71)	1,2,4-Trichlorobenzene	28.69	180.0	24628	11.32	ug/L	95
72)	Naphthalene	29.21	128.0	52691	9.85	ug/L	100
73)	Hexachlorobutadiene	29.13	225.0	13151	10.24	ug/L	94
74)	1,2,3-Trichlorobenzene	29.77	180.0	23102	11.06	ug/L	94

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG265::D4 Quant Output File: ^AG265::D5
Name: 93ZE33S36MSD SF1187 Instrument ID: HP MS#4
Misc: 5/26/93, 5mL PURGE

Id File: IDAG09::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54 Last Qcal Time: 930526 09:30

Operator ID: TONY
Quant Time : 930526 19:11
Injected at: 930526 18:38

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93ZE33S38MS

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE33S38MS

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG272

Level: (low/med) LOW Date Received: 05/14/93

% Moisture: not dec. ---- Date Analyzed: 05/27/93

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	3	U
74-87-3	Chloromethane	3	U
75-01-4	Vinyl chloride	4	
74-83-9	Bromomethane	4	
75-00-3	Chloroethane	7	
75-69-4	Trichlorofluoromethane	6	
107-64-1	Acrolein	10	U
75-35-4	1,1-Dichloroethene	13	
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	2	U
75-09-2	Methylene chloride	12	
75-35-4	trans-1,2-Dichloroethene	11	
107-13-1	Acrylonitrile	10	U
75-34-3	1,1-Dichloroethane	11	
108-05-4	Vinyl acetate	10	U
594-20-7	2,2-Dichloropropane	13	
540-59-0	cis-1,2-Dichloroethene	12	
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	12	
67-66-3	Chloroform	11	
71-55-6	1,1,1-Trichloroethane	12	
56-23-5	Carbon tetrachloride	12	
563-58-6	1,1-Dichloropropene	11	
71-43-2	Benzene	12	
107-06-2	1,2-Dichloroethane	11	
79-01-6	Trichloroethene	12	
78-87-5	1,2-Dichloropropane	12	
74-95-3	Dibromomethane	11	
110-75-8	2-Chloroethyl vinylether	10	U
75-27-4	Bromodichloromethane	11	
10061015	cis-1,3-Dichloropropene	11	
108-88-3	Toluene	12	
108-10-1	4-Methyl-2-pentanone	5	U
10061026	trans-1,3-Dichloropropene	12	

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93ZE33S38MS

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE33S38MS

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG272

Level: (low/med) LOW Date Received: 05/14/93

% Moisture: not dec. ---- Date Analyzed: 05/27/93

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	12	
79-00-5	1,1,2-Trichloroethane	11	
142-28-9	1,3-Dichloropropane	11	
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	11	
106-93-4	1,2-Dibromoethane	11	
108-90-7	Chlorobenzene	11	
630-20-6	1,1,1,2-Tetrachloroethane	11	
100-41-4	Ethylbenzene	11	
108-38-3	m &/or p-Xylene	22	
95-47-6	o-Xylene	11	
100-42-5	Styrene	12	
75-25-2	Bromoform	10	
98-82-8	Isopropylbenzene	11	
108-86-1	Bromobenzene	11	
96-18-4	1,2,3-Trichloropropane	10	
79-34-5	1,1,2,2-Tetrachloroethane	9	
103-65-1	n-Propylbenzene	11	
95-49-8	2-Chlorotoluene	11	
106-43-4	4-Chlorotoluene	11	
108-67-8	1,3,5-Trimethylbenzene	11	
98-06-6	tert-Butylbenzene	11	
95-63-6	1,2,4-Trimethylbenzene	11	
135-98-8	sec-Butylbenzene	12	
541-73-1	1,3-Dichlorobenzene	11	
106-46-7	1,4-Dichlorobenzene	11	
99-87-6	p-Isopropyltoluene	11	
95-50-1	1,2-Dichlorobenzene	11	
104-51-8	n-Butylbenzene	11	
96-12-8	1,2-Dibromo-3-chloropropane	7	
120-82-1	1,2,4-Trichlorobenzene	11	
91-20-3	Naphthalene	9	
87-68-3	Hexachlorobutadiene	12	
87-61-6	1,2,3-Trichlorobenzene	11	

QUANT REPORT

Operator ID: TONY
Quant Rev: 7
Quant Time: 930527 13:07
Output File: ^AG272::D5
Injected at: 930527 12:34
Data File: >AG272::D4
Dilution Factor: 1.00000
Name: 93ZE33S38MS SF1187
Instrument ID: HP MS#4
Misc: 5/27/93, HP MS#4, 5mL PURGE

ID File: IDAG10::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54
Last Qcal Time: 930527 10:31

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.13	96.0	72665	10.00	ug/L	99
4)	Vinyl chloride	3.46	62.0	10138	3.69	ug/L	78
5)	Bromomethane	4.16	94.0	8016	4.00	ug/L	96
6)	Chloroethane	4.45	64.0	9183	7.21	ug/L	93
7)	Trichlorofluoromethane	4.99	101.0	26273	6.37	ug/L	87
9)	1,1-Dichloroethene	6.47	96.0	24766	12.73	ug/L	91
12)	Methylene chloride	7.92	84.0	28478	11.83	ug/L	92
13)	trans-1,2-Dichloroethene	8.53	96.0	23895	11.33	ug/L	94
15)	1,1-Dichloroethane	9.51	63.0	41622	10.79	ug/L	96
17)	2,2-Dichloropropane	10.73	77.0	35284	12.71	ug/L	98
18)	cis-1,2-Dichloroethene	10.81	96.0	25324	12.35	ug/L	93
20)	Bromochloromethane	11.28	128.0	16589	11.83	ug/L	97
21)	Chloroform	11.57	83.0	57843	11.31	ug/L	97
22)	1,1,1-Trichloroethane	11.75	97.0	49016	11.70	ug/L	97
23)	Carbon tetrachloride	12.05	117.0	36241	11.69	ug/L	93
24)	1,1-Dichloropropene	12.10	75.0	34156	10.64	ug/L	98
25)	BENZENE-D6	12.43	84.0	70132	10.14	ug/L	99
26)	Benzene	12.50	78.0	88461	11.52	ug/L	97
27)	1,2-Dichloroethane	12.64	62.0	47445	10.98	ug/L	98
28)	*TOLUENE-D8	16.27	98.0	69666	10.00	ug/L	96
29)	Trichloroethene	13.86	95.0	32281	11.85	ug/L	84
30)	1,2-Dichloropropane	14.30	63.0	24803	12.28	ug/L	98
31)	Dibromomethane	14.55	174.0	20793	11.30	ug/L	94
33)	Bromodichloromethane	14.94	83.0	39955	10.90	ug/L	98
34)	cis-1,3-Dichloropropene	15.83	75.0	36840	10.65	ug/L	96
35)	Toluene	16.39	92.0	51443	11.86	ug/L	93
37)	trans-1,3-Dichloropropene	16.99	75.0	35368	11.60	ug/L	99
38)	Tetrachloroethene	17.45	166.0	28356	11.82	ug/L	99
39)	1,1,2-Trichloroethane	17.32	132.0	1891	10.68	ug/L	89
40)	1,3-Dichloropropane	17.63	76.0	35692	11.22	ug/L	99
42)	Dibromochloromethane	18.06	129.0	28910	11.48	ug/L	96
43)	1,2-Dibromoethane	18.22	107.0	22831	10.58	ug/L	92
44)	*CHLOROBENZENE-D5	19.19	117.0	55564	10.00	ug/L	99
45)	Chlorobenzene	19.25	112.0	57454	11.06	ug/L	93
46)	1,1,1,2-Tetrachloroethane	19.46	131.0	23724	10.99	ug/L	91
47)	Ethylbenzene	19.52	91.0	103175	10.89	ug/L	96
48)	m &/or p-Xylene	19.78	106.0	69442	22.19	ug/L	77
49)	o-Xylene	20.60	106.0	32973	11.44	ug/L	93
50)	Styrene	20.65	104.0	59065	12.11	ug/L	89
51)	Bromoform	21.01	173.0	16773	9.82	ug/L	95

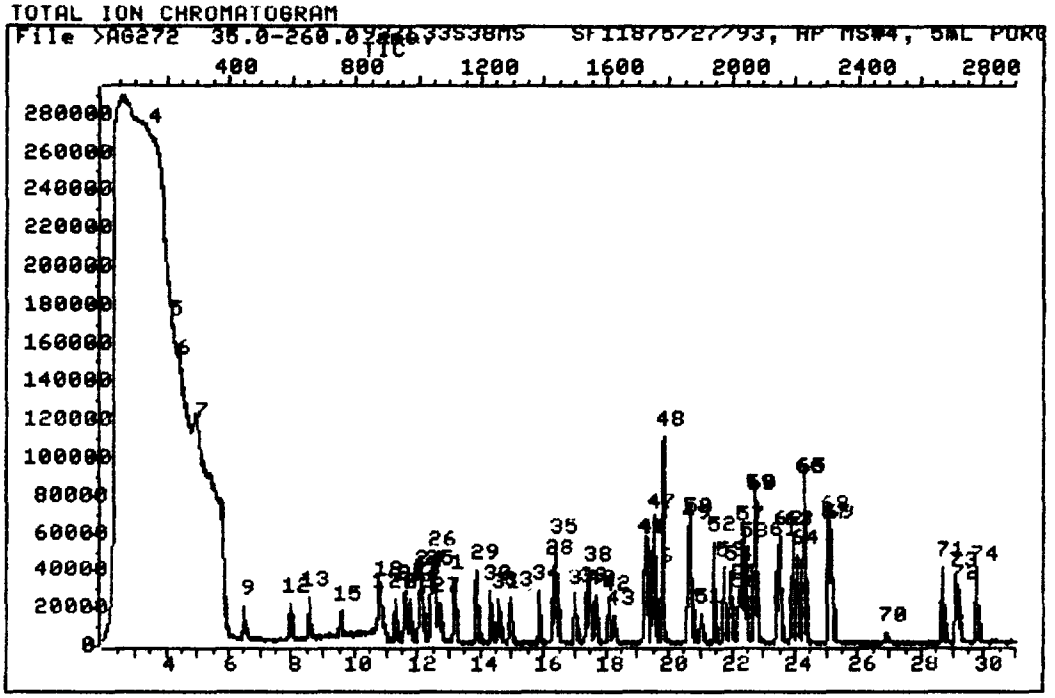
Operator ID: TONY Quant Rev: 7 Quant Time: 930527 13:07
Output File: ^AG272::D5 Injected at: 930527 12:34
Data File: >AG272::D4 Dilution Factor: 1.00000
Name: 93ZE33S38MS SF1187 Instrument ID: HP MS#4
Misc: 5/27/93, HP MS#4, 5mL PURGE

ID File: IDAG10::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54 Last Qcal Time: 930527 10:31

	Compound	R.T.	Q ion	Area	Conc	Units	q
52)	Isopropylbenzene	21.41	105.0	91942	10.54	ug/L	92
53)	p-BROMOFLUOROBENZENE	21.72	174.0	26340	9.59	ug/L	92
54)	Bromobenzene	21.97	156.0	26878	11.07	ug/L	99
55)	1,2,3-Trichloropropane	22.20	75.0	20084	10.30	ug/L	82
56)	1,1,2,2-Tetrachloroethane	22.18	83.0	17262	8.88	ug/L	93
57)	n-Propylbenzene	22.30	120.0	22790	11.01	ug/L	98
58)	2-Chlorotoluene	22.43	126.0	21337	11.14	ug/L	92
59)	4-Chlorotoluene	22.68	126.0	22717	11.38	ug/L	90
60)	1,3,5-Trimethylbenzene	22.72	105.0	87125	11.37	ug/L	80
61)	tert-Butylbenzene	23.39	119.0	65202	11.27	ug/L	80
62)	1,2,4-Trimethylbenzene	23.51	105.0	87335	11.25	ug/L	80
63)	sec-Butylbenzene	23.88	105.0	105312	11.53	ug/L	91
64)	1,3-Dichlorobenzene	24.06	146.0	46564	11.26	ug/L	92
65)	1,4-Dichlorobenzene	24.27	146.0	47349	10.93	ug/L	94
66)	p-Isopropyltoluene	24.24	119.0	79492	10.61	ug/L	87
67)	1,2-DICHLOROBENZENE-D4	25.02	152.0	27308	9.85	ug/L	96
68)	1,2-Dichlorobenzene	25.06	146.0	44232	11.31	ug/L	91
69)	n-Butylbenzene	25.15	91.0	86884	11.22	ug/L	86
70)	1,2-Dibromo-3-chloropropane	26.85	157.0	3041	7.24	ug/L	90
71)	1,2,4-Trichlorobenzene	28.67	180.0	30546	10.70	ug/L	96
72)	Naphthalene	29.19	128.0	48801	8.62	ug/L	100
73)	Hexachlorobutadiene	29.11	225.0	21076	11.74	ug/L	95
74)	1,2,3-Trichlorobenzene	29.76	180.0	28597	10.85	ug/L	93

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG272::D4 Quant Output File: ^AG272::D5
Name: 93ZE33S38MS SF1187 Instrument ID: HP MS#4
Misc: 5/27/93, HP MS#4, 5mL PURGE

Id File: IDAG10::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54 Last Qcal Time: 930527 10:31

Operator ID: TONY
Quant Time : 930527 13:07
Injected at: 930527 12:34

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93ZE33S38MSD

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE33S38MSD

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG273

Level: (low/med) LOW Date Received: 05/14/93

% Moisture: not dec. ---- Date Analyzed: 05/27/93

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	2	J
74-87-3	Chloromethane	3	U
75-01-4	Vinyl chloride	3	
74-83-9	Bromomethane	7	
75-00-3	Chloroethane	2	J
75-69-4	Trichlorofluoromethane	5	
107-64-1	Acrolein	10	U
75-35-4	1,1-Dichloroethene	12	
67-64-1	Acetone	8	J
75-15-0	Carbon disulfide	2	U
75-09-2	Methylene chloride	11	
75-35-4	trans-1,2-Dichloroethene	11	
107-13-1	Acrylonitrile	10	U
75-34-3	1,1-Dichloroethane	10	
108-05-4	Vinyl acetate	10	U
594-20-7	2,2-Dichloropropane	13	
540-59-0	cis-1,2-Dichloroethene	12	
78-93-3	2-Butanone	4	J
74-97-5	Bromochloromethane	12	
67-66-3	Chloroform	11	
71-55-6	1,1,1-Trichloroethane	11	
56-23-5	Carbon tetrachloride	11	
563-58-6	1,1-Dichloropropene	10	
71-43-2	Benzene	11	
107-06-2	1,2-Dichloroethane	11	
79-01-6	Trichloroethene	11	
78-87-5	1,2-Dichloropropane	11	
74-95-3	Dibromomethane	11	
110-75-8	2-Chloroethyl vinylether	10	U
75-27-4	Bromodichloromethane	11	
10061015	cis-1,3-Dichloropropene	11	
108-88-3	Toluene	11	
108-10-1	4-Methyl-2-pentanone	5	U
10061026	trans-1,3-Dichloropropene	11	

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93ZE33S38MSD

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE33S38MSD

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG273

Level: (low/med) LOW Date Received: 05/14/93

% Moisture: not dec. ---- Date Analyzed: 05/27/93

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	11	
79-00-5	1,1,2-Trichloroethane	11	
142-28-9	1,3-Dichloropropane	11	
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	11	
106-93-4	1,2-Dibromoethane	11	
108-90-7	Chlorobenzene	11	
630-20-6	1,1,1,2-Tetrachloroethane	11	
100-41-4	Ethylbenzene	11	
108-38-3	m &/or p-Xylene	21	
95-47-6	o-Xylene	11	
100-42-5	Styrene	12	
75-25-2	Bromoform	10	
98-82-8	Isopropylbenzene	10	
108-86-1	Bromobenzene	11	
96-18-4	1,2,3-Trichloropropane	11	
79-34-5	1,1,2,2-Tetrachloroethane	10	
103-65-1	n-Propylbenzene	11	
95-49-8	2-Chlorotoluene	11	
106-43-4	4-Chlorotoluene	11	
108-67-8	1,3,5-Trimethylbenzene	11	
98-06-6	tert-Butylbenzene	11	
95-63-6	1,2,4-Trimethylbenzene	11	
135-98-8	sec-Butylbenzene	11	
541-73-1	1,3-Dichlorobenzene	11	
106-46-7	1,4-Dichlorobenzene	11	
99-87-6	p-Isopropyltoluene	10	
95-50-1	1,2-Dichlorobenzene	11	
104-51-8	n-Butylbenzene	11	
96-12-8	1,2-Dibromo-3-chloropropane	10	
120-82-1	1,2,4-Trichlorobenzene	11	
91-20-3	Naphthalene	10	
87-68-3	Hexachlorobutadiene	11	
87-61-6	1,2,3-Trichlorobenzene	11	

QUANT REPORT

Operator ID: TONY Quant Rev: 7 Quant Time: 930527 13:47
Output File: ^AG273::D5 Injected at: 930527 13:14
Data File: >AG273::D4 Dilution Factor: 1.00000
Name: 93ZE33S38MSD SF1187 Instrument ID: HP MS#4
Misc: 5/27/93, HP MS#4, 5mL PURGE

ID File: IDAG10::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54 Last Qcal Time: 930527 10:31

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.13	96.0	69842	10.00	ug/L	99
2)	Dichlorodifluoromethane	2.86	85.0	5308	1.78	ug/L	79
4)	Vinyl chloride	3.42	62.0	8728	3.31	ug/L	92
5)	Bromomethane	4.17	94.0	12544	6.52	ug/L	82
6)	Chloroethane	4.36	64.0	3012	2.46	ug/L	93
7)	Trichlorofluoromethane	5.02	101.0	18393	4.64	ug/L	79
9)	1,1-Dichloroethene	6.44	96.0	22459	12.01	ug/L	90
10)	Acetone	6.92	43.0	2704	8.19	ug/L	94
12)	Methylene chloride	7.91	84.0	24858	10.74	ug/L	91
13)	trans-1,2-Dichloroethene	8.51	96.0	22353	11.02	ug/L	95
15)	1,1-Dichloroethane	9.50	63.0	38665	10.43	ug/L	93
17)	2,2-Dichloropropane	10.72	77.0	33399	12.52	ug/L	99
18)	cis-1,2-Dichloroethene	10.79	96.0	23561	11.95	ug/L	95
19)	2-Butanone	11.00	43.0	1841	4.13	ug/L	85
20)	Bromochloromethane	11.28	128.0	15709	11.66	ug/L	92
21)	Chloroform	11.56	83.0	53745	10.93	ug/L	97
22)	1,1,1-Trichloroethane	11.74	97.0	45715	11.36	ug/L	96
23)	Carbon tetrachloride	12.05	117.0	32858	11.03	ug/L	92
24)	1,1-Dichloropropene	12.09	75.0	31610	10.24	ug/L	94
25)	BENZENE-D6	12.42	84.0	68985	10.37	ug/L	96
26)	Benzene	12.50	78.0	82993	11.24	ug/L	99
27)	1,2-Dichloroethane	12.64	62.0	44897	10.81	ug/L	98
28)	*TOLUENE-D8	16.26	98.0	68077	10.00	ug/L	98
29)	Trichloroethene	13.85	95.0	30064	11.30	ug/L	88
30)	1,2-Dichloropropane	14.29	63.0	22583	11.44	ug/L	99
31)	Dibromomethane	14.54	174.0	20056	11.15	ug/L	98
33)	Bromodichloromethane	14.94	83.0	37525	10.48	ug/L	98
34)	cis-1,3-Dichloropropene	15.81	75.0	35386	10.47	ug/L	90
35)	Toluene	16.39	92.0	47400	11.18	ug/L	93
37)	trans-1,3-Dichloropropene	16.99	75.0	33833	11.36	ug/L	96
38)	Tetrachloroethene	17.45	166.0	25886	11.04	ug/L	96
39)	1,1,2-Trichloroethane	17.33	132.0	1923	11.12	ug/L	84
40)	1,3-Dichloropropane	17.63	76.0	33761	10.86	ug/L	95
42)	Dibromochloromethane	18.06	129.0	26733	10.87	ug/L	99
43)	1,2-Dibromoethane	18.21	107.0	22790	10.81	ug/L	96
44)	*CHLOROBENZENE-D5	19.19	117.0	53709	10.00	ug/L	98
45)	Chlorobenzene	19.25	112.0	53306	10.62	ug/L	90
46)	1,1,1,2-Tetrachloroethane	19.47	131.0	21923	10.50	ug/L	94
47)	Ethylbenzene	19.52	91.0	95966	10.47	ug/L	94
48)	m &/or p-Xylene	19.78	106.0	63554	21.01	ug/L	76

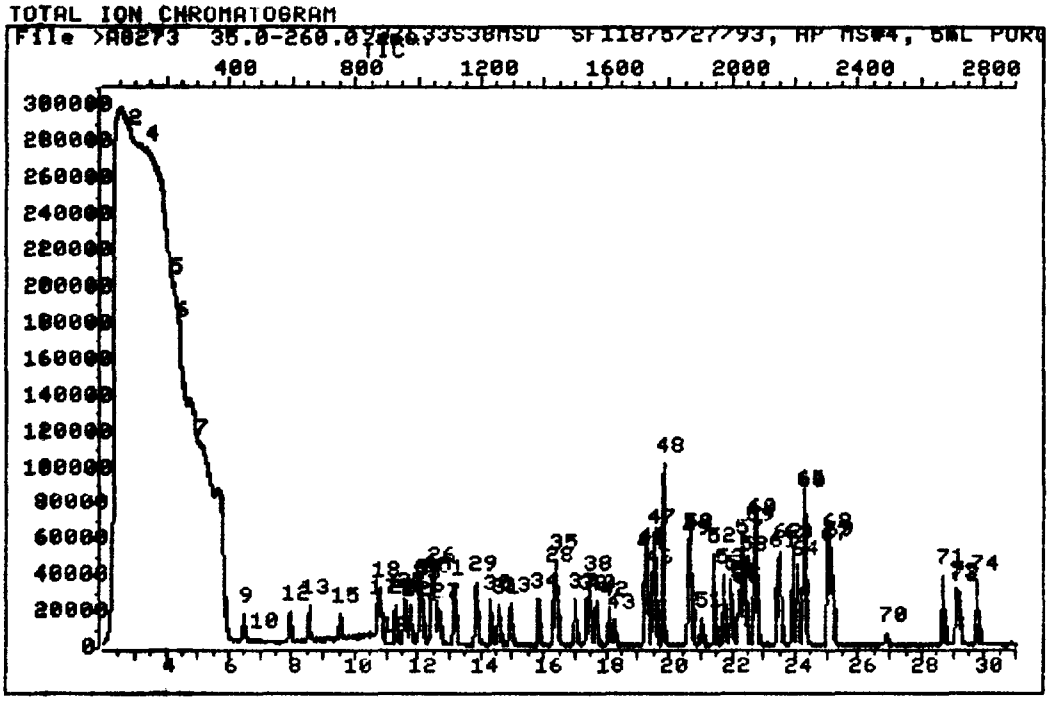
Operator ID: TONY Quant Rev: 7 Quant Time: 930527 13:47
Output File: ^AG273::D5 Injected at: 930527 13:14
Data File: >AG273::D4 Dilution Factor: 1.00000
Name: 93ZE33S38MSD SF1187 Instrument ID: HP MS#4
Misc: 5/27/93, HP MS#4, 5mL PURGE

ID File: IDAG10::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54 Last Qcal Time: 930527 10:31

	Compound	R.T.	Q ion	Area	Conc	Units	q
49)	o-Xylene	20.60	106.0	30698	11.02	ug/L	89
50)	Styrene	20.66	104.0	55139	11.69	ug/L	87
51)	Bromoform	21.02	173.0	16852	10.21	ug/L	97
52)	Isopropylbenzene	21.42	105.0	84523	10.02	ug/L	92
53)	p-BROMOFLUOROBENZENE	21.73	174.0	26322	9.91	ug/L	92
54)	Bromobenzene	21.97	156.0	25092	10.69	ug/L	99
55)	1,2,3-Trichloropropane	22.22	75.0	20382	10.82	ug/L	85
56)	1,1,2,2-Tetrachloroethane	22.20	83.0	18561	9.88	ug/L	94
57)	n-Propylbenzene	22.31	120.0	21554	10.78	ug/L	97
58)	2-Chlorotoluene	22.43	126.0	19758	10.67	ug/L	90
59)	4-Chlorotoluene	22.68	126.0	21467	11.13	ug/L	92
60)	1,3,5-Trimethylbenzene	22.73	105.0	79731	10.76	ug/L	79
61)	tert-Butylbenzene	23.39	119.0	58753	10.51	ug/L	79
62)	1,2,4-Trimethylbenzene	23.51	105.0	79633	10.62	ug/L	81
63)	sec-Butylbenzene	23.88	105.0	95612	10.83	ug/L	92
64)	1,3-Dichlorobenzene	24.06	146.0	44266	11.07	ug/L	93
65)	1,4-Dichlorobenzene	24.26	146.0	44912	10.72	ug/L	92
66)	p-Isopropyltoluene	24.24	119.0	73272	10.12	ug/L	86
67)	1,2-DICHLOROBENZENE-D4	25.01	152.0	27156	10.13	ug/L	94
68)	1,2-Dichlorobenzene	25.06	146.0	41844	11.07	ug/L	95
69)	n-Butylbenzene	25.14	91.0	79811	10.67	ug/L	86
70)	1,2-Dibromo-3-chloropropane	26.85	157.0	4160	10.25	ug/L	91
71)	1,2,4-Trichlorobenzene	28.68	180.0	29730	10.77	ug/L	97
72)	Naphthalene	29.19	128.0	53830	9.84	ug/L	100
73)	Hexachlorobutadiene	29.11	225.0	19251	11.10	ug/L	98
74)	1,2,3-Trichlorobenzene	29.76	180.0	27766	10.89	ug/L	94

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG273::D4 Quant Output File: ^AG273::D5
Name: 93ZE33S38MSD SF1187 Instrument ID: HP MS#4
Misc: 5/27/93, HP MS#4, 5mL PURGE

Id File: IDAG10::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54 Last Qcal Time: 930527 10:31

Operator ID: TONY
Quant Time : 930527 13:47
Injected at: 930527 13:14

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93ZE33S39MS

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE33S39MS

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG260

Level: (low/med) LOW Date Received: 05/14/93

% Moisture: not dec. ---- Date Analyzed: 05/26/93

Column: (pack/cap) CAP Dilution Factor: 10

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	22	J
74-87-3	Chloromethane	30	U
75-01-4	Vinyl chloride	29	J
74-83-9	Bromomethane	30	U
75-00-3	Chloroethane	30	U
75-69-4	Trichlorofluoromethane	63	
107-64-1	Acrolein	100	U
75-35-4	1,1-Dichloroethene	130	
67-64-1	Acetone	1700	
75-15-0	Carbon disulfide	20	U
75-09-2	Methylene chloride	180	
75-35-4	trans-1,2-Dichloroethene	120	
107-13-1	Acrylonitrile	100	U
75-34-3	1,1-Dichloroethane	120	
108-05-4	Vinyl acetate	100	U
594-20-7	2,2-Dichloropropane	150	
540-59-0	cis-1,2-Dichloroethene	360	
78-93-3	2-Butanone	4500	
74-97-5	Bromochloromethane	180	
67-66-3	Chloroform	170	
71-55-6	1,1,1-Trichloroethane	210	
56-23-5	Carbon tetrachloride	220	
563-58-6	1,1-Dichloropropene	150	
71-43-2	Benzene	150	
107-06-2	1,2-Dichloroethane	120	
79-01-6	Trichloroethene	140	
78-87-5	1,2-Dichloropropane	130	
74-95-3	Dibromomethane	120	
110-75-8	2-Chloroethyl vinylether	100	U
75-27-4	Bromodichloromethane	120	
10061015	cis-1,3-Dichloropropene	107	
108-88-3	Toluene	1030	
108-10-1	4-Methyl-2-pentanone	74	
10061026	trans-1,3-Dichloropropene	120	

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93ZE33S39MS

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE33S39M

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG260

Level: (low/med) LOW Date Received: 05/14/93

% Moisture: not dec. ---- Date Analyzed: 05/26/93

Column: (pack/cap) CAP Dilution Factor: 10

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	180	
79-00-5	1,1,2-Trichloroethane	120	
142-28-9	1,3-Dichloropropane	109	
591-78-6	2-Hexanone	50	U
124-48-1	Dibromochloromethane	120	
106-93-4	1,2-Dibromoethane	109	
108-90-7	Chlorobenzene	130	
630-20-6	1,1,1,2-Tetrachloroethane	120	
100-41-4	Ethylbenzene	250	
108-38-3	m &/or p-Xylene	530	
95-47-6	o-Xylene	230	
100-42-5	Styrene	160	
75-25-2	Bromoform	110	
98-82-8	Isopropylbenzene	130	
108-86-1	Bromobenzene	120	
96-18-4	1,2,3-Trichloropropane	101	
79-34-5	1,1,2,2-Tetrachloroethane	105	
103-65-1	n-Propylbenzene	130	
95-49-8	2-Chlorotoluene	120	
106-43-4	4-Chlorotoluene	130	
108-67-8	1,3,5-Trimethylbenzene	130	
98-06-6	tert-Butylbenzene	120	
95-63-6	1,2,4-Trimethylbenzene	150	
135-98-8	sec-Butylbenzene	120	
541-73-1	1,3-Dichlorobenzene	120	
106-46-7	1,4-Dichlorobenzene	150	
99-87-6	p-Isopropyltoluene	140	
95-50-1	1,2-Dichlorobenzene	130	
104-51-8	n-Butylbenzene	120	
96-12-8	1,2-Dibromo-3-chloropropane	93	
120-82-1	1,2,4-Trichlorobenzene	130	
91-20-3	Naphthalene	130	
87-68-3	Hexachlorobutadiene	140	
87-61-6	1,2,3-Trichlorobenzene	120	

QUANT REPORT

Operator ID: TONY
Quant Rev: 7
Quant Time: 930526 15:44
Output File: ^AG260::D5
Injected at: 930526 15:11
Data File: >AG260::D4
Dilution Factor: 1.00000
Name: 93ZE33S39MS 10X DIL
Instrument ID: HP MS#4
Misc: 5/26/93, 500uL/5mL PURGE

ID File: IDAG09::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54
Last Qcal Time: 930526 09:30

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.13	96.0	72252	10.00	ug/L	97
2)	Dichlorodifluoromethane	2.90	85.0	7912	2.21	ug/L	92
4)	Vinyl chloride	3.47	62.0	9511	2.93	ug/L	90
7)	Trichlorofluoromethane	5.02	101.0	23946	6.32	ug/L	91
9)	1,1-Dichloroethene	6.48	96.0	25796	12.92	ug/L	94
10)	Acetone	6.92	43.0	79154	166.59	ug/L	97
12)	Methylene chloride	7.93	84.0	43256	17.89	ug/L	91
13)	trans-1,2-Dichloroethene	8.54	96.0	25879	11.90	ug/L	99
15)	1,1-Dichloroethane	9.52	63.0	46844	12.00	ug/L	94
17)	2,2-Dichloropropane	10.73	77.0	37555	15.21	ug/L	92
18)	cis-1,2-Dichloroethene	10.81	96.0	68267	35.63	ug/L	95
19)	2-Butanone	11.01	43.0	265937	451.71	ug/L	77
20)	Bromochloromethane	11.28	128.0	17651	17.59	ug/L	95
21)	Chloroform	11.56	83.0	62836	16.89	ug/L	97
22)	1,1,1-Trichloroethane	11.75	97.0	53355	20.84	ug/L	96
23)	Carbon tetrachloride	12.03	117.0	38934	22.21	ug/L	91
24)	1,1-Dichloropropene	12.10	75.0	37168	15.47	ug/L	99
25)	BENZENE-D6	12.43	84.0	69454	10.07	ug/L	97
26)	Benzene	12.50	78.0	112681	15.16	ug/L	98
27)	1,2-Dichloroethane	12.65	62.0	52387	12.06	ug/L	96
28)	*TOLUENE-D8	16.28	98.0	71913	10.00	ug/L	95
29)	Trichloroethene	13.85	95.0	42953	14.44	ug/L	84
30)	1,2-Dichloropropane	14.29	63.0	28015	12.70	ug/L	93
31)	Dibromomethane	14.55	174.0	23632	12.12	ug/L	98
33)	Bromodichloromethane	14.94	83.0	44320	11.58	ug/L	97
34)	cis-1,3-Dichloropropene	15.83	75.0	40893	10.73	ug/L	96
35)	Toluene	16.41	92.0	475596	103.40	ug/L	90
36)	4-Methyl-2-pentanone	16.23	43.0	18210	7.35	ug/L	86
37)	trans-1,3-Dichloropropene	17.01	75.0	41163	11.63	ug/L	99
38)	Tetrachloroethene	17.47	166.0	43090	17.91	ug/L	97
39)	1,1,2-Trichloroethane	17.34	132.0	2401	12.00	ug/L	78
40)	1,3-Dichloropropane	17.64	76.0	39383	10.89	ug/L	96
42)	Dibromochloromethane	18.08	129.0	32587	12.07	ug/L	95
43)	1,2-Dibromoethane	18.22	107.0	27437	10.88	ug/L	93
44)	*CHLOROBENZENE-D5	19.21	117.0	56595	10.00	ug/L	95
45)	Chlorobenzene	19.26	112.0	69422	13.16	ug/L	94
46)	1,1,1,2-Tetrachloroethane	19.49	131.0	25766	12.20	ug/L	94
47)	Ethylbenzene	19.54	91.0	244990	25.41	ug/L	92
48)	m &/or p-Xylene	19.79	106.0	166219	53.14	ug/L	76
49)	o-Xylene	20.61	106.0	66583	23.20	ug/L	91

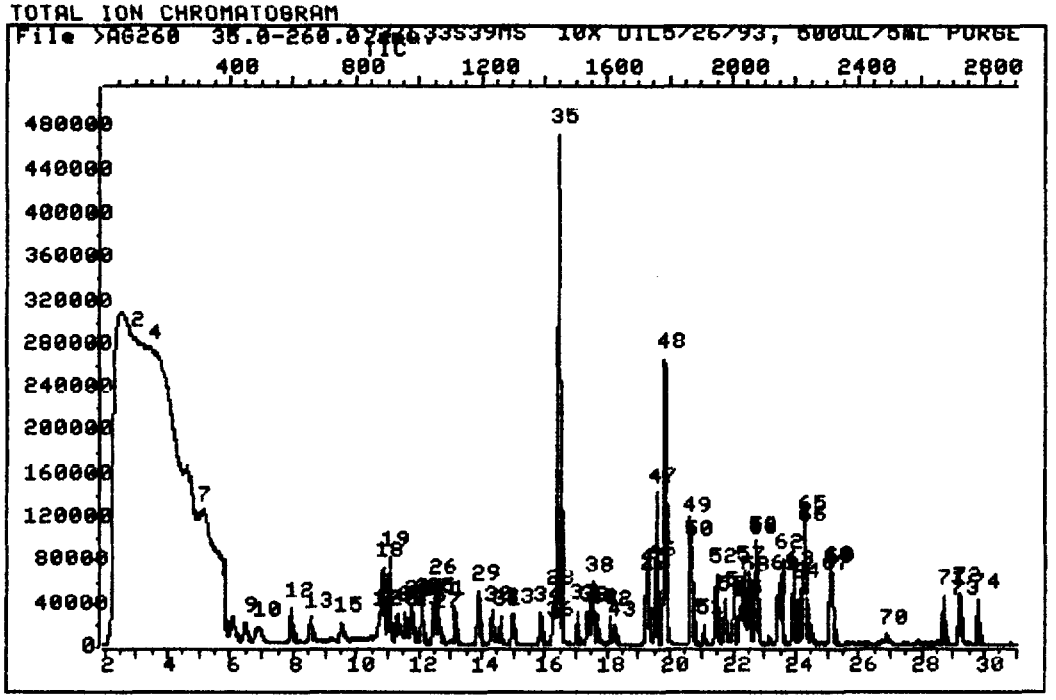
Operator ID: TONY Quant Rev: 7 Quant Time: 930526 15:44
Output File: ^AG260::D5 Injected at: 930526 15:11
Data File: >AG260::D4 Dilution Factor: 1.00000
Name: 93ZE33S39MS 10X DIL Instrument ID: HP MS#4
Misc: 5/26/93, 500uL/5mL PURGE

ID File: IDAG09::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54 Last Qcal Time: 930526 09:30

	Compound	R.T.	Q ion	Area	Conc	Units	q
50)	Styrene	20.67	104.0	80038	16.22	ug/L	88
51)	Bromoform	21.02	173.0	20071	11.19	ug/L	96
52)	Isopropylbenzene	21.43	105.0	109207	12.57	ug/L	94
53)	p-BROMOFLUOROBENZENE	21.73	174.0	27000	10.32	ug/L	98
54)	Bromobenzene	21.98	156.0	29604	12.23	ug/L	98
55)	1,2,3-Trichloropropane	22.22	75.0	24244	10.09	ug/L	91
56)	1,1,2,2-Tetrachloroethane	22.20	83.0	21782	10.47	ug/L	97
57)	n-Propylbenzene	22.32	120.0	26297	12.51	ug/L	96
58)	2-Chlorotoluene	22.44	126.0	23651	12.29	ug/L	92
59)	4-Chlorotoluene	22.70	126.0	25466	12.85	ug/L	89
60)	1,3,5-Trimethylbenzene	22.73	105.0	99696	12.87	ug/L	81
61)	tert-Butylbenzene	23.41	119.0	71098	12.38	ug/L	79
62)	1,2,4-Trimethylbenzene	23.53	105.0	115335	14.94	ug/L	85
63)	sec-Butylbenzene	23.90	105.0	113611	12.32	ug/L	90
64)	1,3-Dichlorobenzene	24.07	146.0	50709	12.12	ug/L	94
65)	1,4-Dichlorobenzene	24.28	146.0	63059	14.52	ug/L	94
66)	p-Isopropyltoluene	24.25	119.0	102697	13.62	ug/L	86
67)	1,2-DICHLOROBENZENE-D4	25.03	152.0	28382	10.28	ug/L	96
68)	1,2-Dichlorobenzene	25.08	146.0	49376	12.60	ug/L	92
69)	n-Butylbenzene	25.16	91.0	94872	11.87	ug/L	88
70)	1,2-Dibromo-3-chloropropane	26.88	157.0	5048	9.26	ug/L	91
71)	1,2,4-Trichlorobenzene	28.70	180.0	34695	12.66	ug/L	93
72)	Naphthalene	29.21	128.0	84917	12.60	ug/L	100
73)	Hexachlorobutadiene	29.13	225.0	22134	13.69	ug/L	92
74)	1,2,3-Trichlorobenzene	29.78	180.0	32420	12.33	ug/L	94

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG260::D4 Quant Output File: ^AG260::D5
Name: 93ZE33S39MS 10X DIL Instrument ID: HP MS#4
Misc: 5/26/93, 500uL/5mL PURGE

Id File: IDAG09::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54 Last Qcal Time: 930526 09:30

Operator ID: TONY
Quant Time : 930526 15:44
Injected at: 930526 15:11

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93ZE33S39MSD

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE33S39MSD

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG261

Level: (low/med) LOW Date Received: 05/14/93

% Moisture: not dec. ---- Date Analyzed: 05/26/93

Column: (pack/cap) CAP Dilution Factor: 10

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	24	J
74-87-3	Chloromethane	30	U
75-01-4	Vinyl chloride	40	
74-83-9	Bromomethane	58	
75-00-3	Chloroethane	48	
75-69-4	Trichlorofluoromethane	53	
107-64-1	Acrolein	100	U
75-35-4	1,1-Dichloroethene	130	
67-64-1	Acetone	1800	
75-15-0	Carbon disulfide	20	U
75-09-2	Methylene chloride	180	
75-35-4	trans-1,2-Dichloroethene	120	
107-13-1	Acrylonitrile	100	U
75-34-3	1,1-Dichloroethane	120	
108-05-4	Vinyl acetate	100	U
594-20-7	2,2-Dichloropropane	150	
540-59-0	cis-1,2-Dichloroethene	360	
78-93-3	2-Butanone	4900	
74-97-5	Bromochloromethane	140	
67-66-3	Chloroform	130	
71-55-6	1,1,1-Trichloroethane	150	
56-23-5	Carbon tetrachloride	150	
563-58-6	1,1-Dichloropropene	120	
71-43-2	Benzene	150	
107-06-2	1,2-Dichloroethane	120	
79-01-6	Trichloroethene	150	
78-87-5	1,2-Dichloropropane	130	
74-95-3	Dibromomethane	120	
110-75-8	2-Chloroethyl vinylether	100	U
75-27-4	Bromodichloromethane	120	
10061015	cis-1,3-Dichloropropene	110	
108-88-3	Toluene	1100	
108-10-1	4-Methyl-2-pentanone	90	
10061026	trans-1,3-Dichloropropene	120	

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93ZE33S39MSD

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE33S39MSD

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG261

Level: (low/med) LOW Date Received: 05/14/93

% Moisture: not dec. ---- Date Analyzed: 05/26/93

Column: (pack/cap) CAP Dilution Factor: 10

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	180	
79-00-5	1,1,2-Trichloroethane	110	
142-28-9	1,3-Dichloropropane	120	
591-78-6	2-Hexanone	50	U
124-48-1	Dibromochloromethane	120	
106-93-4	1,2-Dibromoethane	110	
108-90-7	Chlorobenzene	140	
630-20-6	1,1,1,2-Tetrachloroethane	120	
100-41-4	Ethylbenzene	280	
108-38-3	m &/or p-Xylene	570	
95-47-6	o-Xylene	240	
100-42-5	Styrene	170	
75-25-2	Bromoform	110	
98-82-8	Isopropylbenzene	130	
108-86-1	Bromobenzene	120	
96-18-4	1,2,3-Trichloropropane	107	
79-34-5	1,1,2,2-Tetrachloroethane	110	
103-65-1	n-Propylbenzene	130	
95-49-8	2-Chlorotoluene	130	
106-43-4	4-Chlorotoluene	130	
108-67-8	1,3,5-Trimethylbenzene	130	
98-06-6	tert-Butylbenzene	130	
95-63-6	1,2,4-Trimethylbenzene	160	
135-98-8	sec-Butylbenzene	130	
541-73-1	1,3-Dichlorobenzene	120	
106-46-7	1,4-Dichlorobenzene	150	
99-87-6	p-Isopropyltoluene	140	
95-50-1	1,2-Dichlorobenzene	130	
104-51-8	n-Butylbenzene	120	
96-12-8	1,2-Dibromo-3-chloropropane	100	
120-82-1	1,2,4-Trichlorobenzene	130	
91-20-3	Naphthalene	140	
87-68-3	Hexachlorobutadiene	120	
87-61-6	1,2,3-Trichlorobenzene	120	

QUANT REPORT

Operator ID: TONY
Quant Rev: 7
Quant Time: 930526 16:25
Output File: ^AG261::D5
Injected at: 930526 15:52
Data File: >AG261::D4
Dilution Factor: 1.00000
Name: 93ZE33S39MSD 10X DIL
Instrument ID: HP MS#4
Misc: 5/26/93, 500uL/5mL PURGE

ID File: IDAG09::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54
Last Qcal Time: 930526 09:30

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.10	96.0	61976	10.00	ug/L	98
2)	Dichlorodifluoromethane	2.88	85.0	7287	2.37	ug/L	99
4)	Vinyl chloride	3.50	62.0	11125	4.00	ug/L	93
5)	Bromomethane	4.19	94.0	10126	5.76	ug/L	87
6)	Chloroethane	4.43	64.0	6282	4.77	ug/L	99
7)	Trichlorofluoromethane	5.04	101.0	17202	5.29	ug/L	94
9)	1,1-Dichloroethene	6.48	96.0	21684	12.66	ug/L	98
10)	Acetone	6.94	43.0	73616	180.62	ug/L	96
12)	Methylene chloride	7.95	84.0	36572	17.63	ug/L	98
13)	trans-1,2-Dichloroethene	8.55	96.0	22280	11.95	ug/L	96
15)	1,1-Dichloroethane	9.54	63.0	39032	11.66	ug/L	99
17)	2,2-Dichloropropane	10.72	77.0	31634	14.93	ug/L	98
18)	cis-1,2-Dichloroethene	10.80	96.0	59650	36.30	ug/L	97
19)	2-Butanone	10.99	43.0	249382	493.82	ug/L	77
20)	Bromochloromethane	11.27	128.0	12043	13.99	ug/L	97
21)	Chloroform	11.54	83.0	40628	12.73	ug/L	96
22)	1,1,1-Trichloroethane	11.72	97.0	32589	14.84	ug/L	94
23)	Carbon tetrachloride	12.01	117.0	22424	14.92	ug/L	87
24)	1,1-Dichloropropene	12.06	75.0	25449	12.35	ug/L	96
25)	BENZENE-D6	12.39	84.0	59844	10.12	ug/L	98
26)	Benzene	12.46	78.0	94593	14.84	ug/L	99
27)	1,2-Dichloroethane	12.61	62.0	45975	12.34	ug/L	98
28)	*TOLUENE-D8	16.27	98.0	60002	10.00	ug/L	96
29)	Trichloroethene	13.83	95.0	36144	14.57	ug/L	86
30)	1,2-Dichloropropane	14.28	63.0	24491	13.30	ug/L	99
31)	Dibromomethane	14.53	174.0	19187	11.79	ug/L	96
33)	Bromodichloromethane	14.93	83.0	36981	11.58	ug/L	98
34)	cis-1,3-Dichloropropene	15.82	75.0	34965	11.00	ug/L	95
35)	Toluene	16.40	92.0	430155	112.09	ug/L	90
36)	4-Methyl-2-pentanone	16.23	43.0	18521	8.96	ug/L	88
37)	trans-1,3-Dichloropropene	17.00	75.0	35539	12.03	ug/L	98
38)	Tetrachloroethene	17.46	166.0	37028	18.44	ug/L	95
39)	1,1,2-Trichloroethane	17.33	132.0	1855	11.11	ug/L	97
40)	1,3-Dichloropropane	17.64	76.0	34916	11.57	ug/L	98
42)	Dibromochloromethane	18.08	129.0	27473	12.19	ug/L	99
43)	1,2-Dibromoethane	18.23	107.0	23782	11.30	ug/L	98
44)	*CHLOROBENZENE-D5	19.21	117.0	45768	10.00	ug/L	96
45)	Chlorobenzene	19.27	112.0	57690	13.53	ug/L	92
46)	1,1,1,2-Tetrachloroethane	19.49	131.0	20800	12.17	ug/L	93
47)	Ethylbenzene	19.54	91.0	214910	27.56	ug/L	94

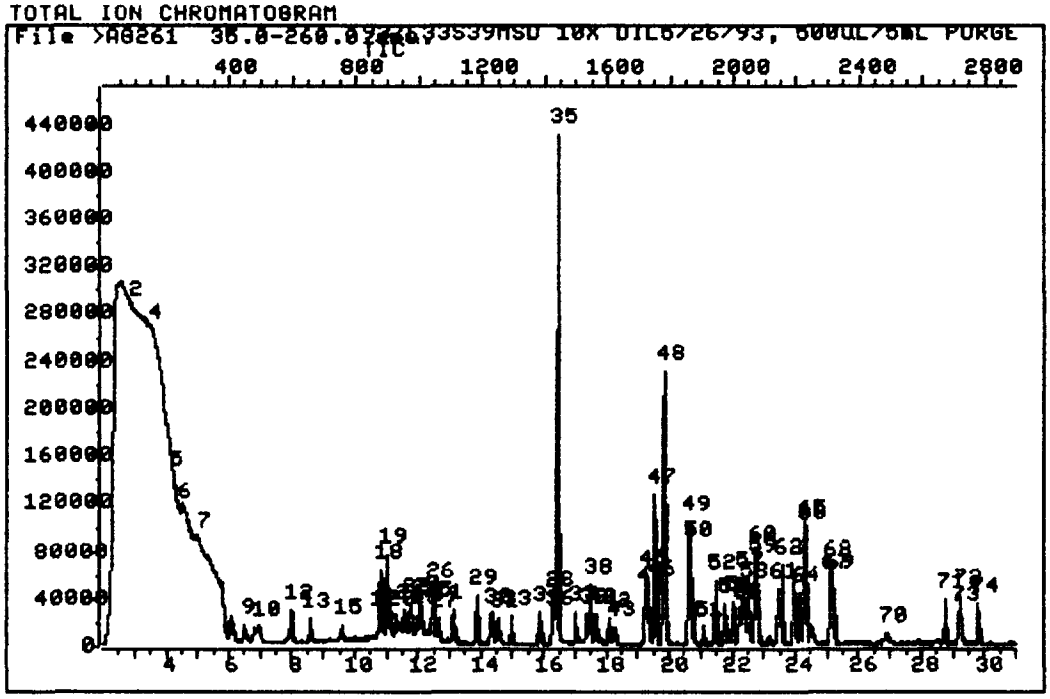
Operator ID: TONY Quant Rev: 7 Quant Time: 930526 16:25
Output File: ^AG261::D5 Injected at: 930526 15:52
Data File: >AG261::D4 Dilution Factor: 1.00000
Name: 93ZE33S39MSD 10X DIL Instrument ID: HP MS#4
Misc: 5/26/93, 500uL/5mL PURGE

ID File: IDAG09::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54 Last Qcal Time: 930526 09:30

	Compound	R.T.	Q ion	Area	Conc	Units	q
48)	m &/or p-Xylene	19.80	106.0	144079	56.96	ug/L	74
49)	o-Xylene	20.63	106.0	56505	24.35	ug/L	89
50)	Styrene	20.68	104.0	68787	17.24	ug/L	90
51)	Bromoform	21.03	173.0	16094	11.09	ug/L	94
52)	Isopropylbenzene	21.44	105.0	89613	12.76	ug/L	92
53)	p-BROMOFLUOROBENZENE	21.76	174.0	21740	10.27	ug/L	91
54)	Bromobenzene	22.00	156.0	23967	12.24	ug/L	97
55)	1,2,3-Trichloropropane	22.25	75.0	20880	10.74	ug/L	88
56)	1,1,2,2-Tetrachloroethane	22.23	83.0	18470	10.98	ug/L	91
57)	n-Propylbenzene	22.34	120.0	22061	12.98	ug/L	99
58)	2-Chlorotoluene	22.46	126.0	19788	12.72	ug/L	92
59)	4-Chlorotoluene	22.71	126.0	20952	13.07	ug/L	90
60)	1,3,5-Trimethylbenzene	22.75	105.0	83392	13.32	ug/L	82
61)	tert-Butylbenzene	23.43	119.0	58875	12.68	ug/L	76
62)	1,2,4-Trimethylbenzene	23.55	105.0	100193	16.05	ug/L	80
63)	sec-Butylbenzene	23.55	105.0	100193	13.44	ug/L	55
64)	1,3-Dichlorobenzene	24.09	146.0	41775	12.35	ug/L	97
65)	1,4-Dichlorobenzene	24.30	146.0	53392	15.21	ug/L	94
66)	p-Isopropyltoluene	24.28	119.0	85786	14.06	ug/L	87
67)	1,2-DICHLOROBENZENE-D4	25.06	152.0	23107	10.35	ug/L	94
68)	1,2-Dichlorobenzene	25.09	146.0	41327	13.04	ug/L	90
69)	n-Butylbenzene	25.19	91.0	78069	12.07	ug/L	87
70)	1,2-Dibromo-3-chloropropane	26.88	157.0	4422	10.03	ug/L	92
71)	1,2,4-Trichlorobenzene	28.71	180.0	28071	12.67	ug/L	96
72)	Naphthalene	29.23	128.0	75004	13.76	ug/L	100
73)	Hexachlorobutadiene	29.14	225.0	16042	12.27	ug/L	99
74)	1,2,3-Trichlorobenzene	29.79	180.0	25285	11.89	ug/L	95

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG261::D4 Quant Output File: ^AG261::D5
Name: 93ZE33S39MSD 10X DIL Instrument ID: HP MS#4
Misc: 5/26/93, 500uL/5mL PURGE

Id File: IDAG09::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54 Last Qcal Time: 930526 09:30

Operator ID: TONY
Quant Time : 930526 16:25
Injected at: 930526 15:52

DATE/ INITIALS	FILE	SAMPLE	COMMENTS
5/13/93 ag	>AG156	BFB, 50ng	-failed. Reran autotune. Checked axis/width calibration
5/14/93 ag/NF	>AG157	BFB, 50ng	
	>AG158	BFB, 50ng	-lower EM to 1950 V
	>AG159	BFB, 50ng	NOT USED
	>AG160	5PPB	
	>AG161	25PPB	
	>AG162	50PPB	
	>AG163	100PPB	
	>AG164	150PPB	
	>AG165	VOA STD CAL CHECK	
	~~>AG166~~	~~LAB BLANK~~	~~051493BLK1~~ — ag 5/14/93
	>AG166	BFB, 50ng	
5/17/93	AG185	BFB	Change Tekmar trap
	>AG187	5PPB	ID AG05, CB AG02, FG A187
	AG188	25PPB	
	AG189	50PPB	
	AG190	100PPB	

DATE/ INITIALS	FILE	SAMPLE	
5/17/93	AG191	150PPB	
	AG192	CAI Check	
	AG193	Lab Blank	
	AG194	93CD21505	EDO1190
	AG195	93CD21R07	
	AG196	93CD21505MS	
	AG197	93CD21505MS	~~93CD21505MS~~
	AG198	~~93CD21505MS~~	~~93CD10501 100dil~~ ~~CDO1189~~
	AG199	93CD10~~502~~	100dil 501 100dil CDO1189
	AG200	93CD10R04	
	AG201	93CD10R01	
5/18/93	AG202	93CD~~10~~501	1:5 dil screening run
	AG203	502	1:5 dil
	AG204	BFB	
	AG205	50PPB	
	AG206	Lab Blank	
	AG207	93CD10501	250ul dil screening
	AG209	93CD10502	~~250ul dil screening~~
	AG~~210~~ 209	BFB	
	AG210	50PPB	ID AG06, CBAG02
	AG211	Lab Blank	CDO1189
	AG212	93CD21501	
	AG213	93CD21502	
	AG214	94CD21501	MS
	AG215	94CD21501	MS
	AG216	94CD21501	MS
	AG217	94CD21R01	
	AG218	93ZE06R60	SF1187

DATE/ INITIALS	FILE	SAMPLE	COMMENTS	
5/18/93	>AG219	93ZE06R61	SF1187	
	>AG220	93ZE06R65		
	>AG221	93ZE06S36		
5/19/93	>AG225	BFB		
	>AG226	50 PPB		
	>AG227	50 PPB	CBAG02 IDAG07	F8A227 - for 93CD21S02 F8B227 - for SF1180 ~~F8A227~~
	>AG228	LAB BLANK		051993BLK1
	>AG229	LAB BLANK2		051993BLK2 F2A229
	>AG230	93ZG05R01	SF1180	AGRUNG, [illegible]
	>AG231	93ZG05R02	SF1180	
	~~>AG232~~	~~93CD21S02 DL~~	~~20x dil (250 µl/5 ml)~~	
	>AG233	93ZG05S02	SF1180	
	>AG234	93ZG05S03	SF1180	
	>AG235	93ZG05S04	SF1180	
	>AG236	93ZG05S05	SF1180	
				SEQU
				Decau
5/21/93	>ZR001			
	>ZR002			
	>ZR003			
	>ZR004			
	>ZR005		not used	
	>ZR006			
	>ZR007			
	>ZR008			
	>ZR009			
	>ZR010			
	>ZR011			

DATE/ INITIALS	FILE	SAMPLE	COMMENTS
6/25/93	>AG237	50 PPB CC STD	Tune file : MTMSD1
agg		↳ ran with new trap and new set of standards	Repeller = 10.2 V ; Ion focus = 48.8
		(see notes on p.85)	Ent lens = 29 mV/amu ; X-ray = 29.6 V
			Amu gain = 159 ; Amu Offset = 57
		Response factors of lighter cpds are much higher	Mass axis gain = -128 ; Axis offset = 10
			Methods BFB#1 and VOA #1 :
	>AG238	duplicate of >AG237.	EM = 1937 V
			# of A/D samples = 4 (2^2)
			GC Peak threshold = 2 x 10^4 counts
			Threshold = 20 counts
			EM lowered to 1900 V in Methods
			BFB#1 + VOA#1.
	>AG239	BFB, 50 ng (see note)	INJ TIME = 13.16 passed, scan 92, saved $AG239 LAB TEMP = 24°
	>AG240	5 PPB VOA STD	SEQ: BAAG19 — IS/SS 5 µl, ABD 2.5, C 5.0 in 25 ml
	>AG241	25 PPB VOA STD	~~CBAG03~~ — 2.5, 2.5 in 5 ml
	>AG242	50 PPB VOA STD	IDAG08 — 5.0, 5.0
	>AG243	100 PPB VOA STD	10.0, 10.0
	>AG244	150 PPB VOA STD	15.0, 15.0
	>AG245	LAB BLANK #1	acetone = 24, MIBK = 3 J, cpds 70-74 : 1-3 ppb; 2-but = 19, 2-hex = 5 - not used
	>AG246	LAB BLANK #2	acetone = 9 J, CH_2Cl_2 = 3 - not used
	>AG247	ICAL CHECK	1 µl ICAL CHECK (see p.85) / 5 ml
	>AG248	LAB BLANK #3	- used as Method BLANK F4A248 $F1187
	>AG249	93ZE06 R62	SEQ: BAAG20
	>AG250	93ZE06 R63	
	>AG251	93ZE06 R64	
	>AG252	93ZE33 S38	

DATE/ INITIALS	FILE	SAMPLE	COMMENTS
5/26/93	>AG253	BFB, 50ng	SAVED $AG253
agg	>AG254	50 PPB CC STD.	passed, scan 92 inj time = 9:02 LAB TEMP = 27°C; SEQ: BAAG21 - see table, p.85 IDAG09 CBAG03
	>AG255	LAB BLANK 1	acetone: 21.5 ppb; 2-but = TJ - not used
	>AG256	LAB BLANK 2	acetone = 16.6; Hexachlorobutadiene = 1.5 - used as METHOD BLK
	>AG257	LAB BLANK 3	SEQ: BAAG22 - AGRUN2 { acetone = 15, naphthalene = 1.5, hexachlorobutadiene = 1.1
	>AG258	93ZE33S39DL1	10X dil, 500µl/5ml SF1187
	>AG259	93ZE33D39DL1	10X dil, 500µl/5ml
	>AG260	93ZE33S39MS	10X dil, 500µl + 1µl ICAL CHK soln (see p.85)/5ml
	>AG261	93ZE33S39MSD	10X dil, as above (>AG260)
	>AG262	BLANK	not used
	>AG263	93ZE33S36	
	>AG264	93ZE33S36MS	1.0µl ICAL CHECK soln (p.85)/5ml
	>AG265	93ZE33S36MSD	as above (>AG264)
	>AG266	93ZE33S36MSR	as above (>AG264) inj time = 19:19 - not used
5/27/93	>AG267	BFB, 50ng	SAVED $AG267
agg	>AG268	50 PPB CC STD.	passed, scan 93 inj. time = 09:23 F5A267 (SF1187) F5B267 (SF1191); SEQ: BAAG24, IDAG10 good, but CBAB03 - not used; LAB TEMP.: 23.5°C
	>AG269	50 PPB CC STD.	- used for calibr - see table, p.85 F8A269 (SF1187) F8B269 (SF1191)
	>AG270	LAB BLANK 1	- not used
	>AG271	LAB BLANK 2	F4A271 (SF1187); F4B271 (SF1191); 052793b
	>AG272	93ZE33S38MS	SEQ: BAAG25, SF1187 { matrix spk soln: 1µl ICAL CHK (p.85)/5ml; AGRUN3
	>AG273	93ZE33S38MSD	
	>AG274	93ZE33S38MSR	
	>AG275	93ZF53R01	SEQ: BAAG26 [SF1191] AGRUN4
	>AG276	93ZF53R02	
	>AG277	93ZF53R03	
	>AG278	93ZF53R04	
	>AG279	93ZF53S02	
	>AG280	93ZF53S03	

DATE/ INITIALS	FILE	SAMPLE	COMMENTS
5/27/93	>AG281	93ZF53 S11	Areas of IS1 + IS2 too low!
ag	>AG282	93ZF53 S12	
	>AG283	93ZF53 S13	
	>XX284	Bakeout	
5/28/93	>AG285	BFB, 50ng	passed Scan 84, inj. time = 08:47, SAVED $AG285
ZR/ag	>AG286	50 PPB CC STD.	
	>AG287	50 PPB CC STD.	F7A286, F8A286
	>AG288	Method Blank 1	0528 BLK1
	>AG289	Method Blank 2	0528 BLK2 - not used
	>AG290	93ZF53S11RE	original: >AG281
	>AG291	93ZF53S11MS	MS soln: 1µl ICAL CHK
	>AG292	93ZF53S11MSD	
	>AG293	93ZF53S03MS	
	>AG294	93ZF53S03MSD	
	>AG295	93ZF53D02	
	>AG296	93ZF53D13	
	>AG297	Bakeout	
6/1/93			See Maintenance note on p. 89 →
6/1-2/93			See Acetone Contamination note on p. 89 →
ag			Acetone area
	>AGT01	Blank tube (#4)	1066
	>AGT02	5µl IS/SS in tube	∅
	>AGT03	Water Alk, No IS	10927
	>AGT04	Water + MeOH, No IS	6429
	>AGT05	unpurge Water, No IS	∅
	>AGT06	purged Water, No IS	2630
6/3/93	>AGT07	VOA BLANK	1833

FMGR : BLIST,BAAG16

Sequence File: BAAG16::SC

Tune File: MTMSD1

CR List: D3,D4,D5,D2
CR Cut-off: 2500 blocks.

Number of samples: 14

Samp No.	Data File / Method File	Sample Name / Misc Data	Sample Bottle	Report Data Archive / Quant Size / ID Archive / Output Archive	Quant ID / Quant Output
001)	>AG212	CDO1189 93CDS01	0	3 Y M N N N	IDAG06
	VOA#1	05/18/93 #4 250UL		Dil=1.00000	^AG212::D2
	REPRT OPTIONS: Label Meth:4, B option, Qion replaces Scan#				
002)	>AG213	CDO1189 93CD21S02	0	3 Y M N N N	IDAG06::QT
	VOA#1	05/18/93 #5 250UL		Dil=1.00000	^AG213::D2
	REPRT OPTIONS: Label Meth:4, B option, Qion replaces Scan#				
003)	>AG214	CDO1189 93CD21S01MS	0	3 Y M N N N	IDAG06::QT
	VOA#1	05/18/93 #6 250UL		Dil=1.00000	^AG214::D2
	REPRT OPTIONS: Label Meth:4, B option, Qion replaces Scan#				
004)	>AG215	CDO1189 93CD21S01MS	0	3 Y M N N N	IDAG06::QT
	VOA#1	05/18/93 #7 250UL		Dil=1.00000	^AG215::D2
	REPRT OPTIONS: Label Meth:4, B option, Qion replaces Scan#				
005)	>AG216	CDO1189 93CD21S01MS	0	3 Y M N N N	IDAG06::QT
	VOA#1	05/18/93 #8 250UL		Dil=1.00000	^AG216::D2
	REPRT OPTIONS: Label Meth:4, B option, Qion replaces Scan#				
006)	>AG217	CDO1189 93CD21R01	0	3 Y M N N N	IDAG06::QT
	VOA#1	05/18/93 #9		Dil=1.00000	^AG217::D2
	REPRT OPTIONS: Label Meth:4, B option, Qion replaces Scan#				
007)	>AG218	93ZE06R60 SF1187	0	3 Y M N N N	IDAG06::QT
	VOA#1	05/18/93 #10		Dil=1.00000	^AG218::D2
	REPRT OPTIONS: Label Meth:4, B option, Qion replaces Scan#				
008)	>AG219	93ZE06R61 SF1187	0	3 Y M N N N	IDAG06::QT
	VOA#1	05/18/93 #11		Dil=1.00000	^AG219::D2
	REPRT OPTIONS: Label Meth:4, B option, Qion replaces Scan#				
009)	>AG220	93ZE06R65 SF1187	0	3 Y M N N N	IDAG06::QT
	VOA#1	05/18/93 #12		Dil=1.00000	^AG220::D2
	REPRT OPTIONS: Label Meth:4, B option, Qion replaces Scan#				
010)	>AG221	93ZE06S36 SF1187	0	3 Y M N N N	IDAG06::QT
	VOA#1	05/18/93 #13		Dil=1.00000	^AG221::D2
	REPRT OPTIONS: Label Meth:4, B option, Qion replaces Scan#				
011)	>AG222	93ZE06S37 SF1187	0	3 Y M N N N	IDAG06::QT
	VOA#1	05/18/93 #14		Dil=1.00000	^AG222::D2
	REPRT OPTIONS: Label Meth:4, B option, Qion replaces Scan#				
012)	>AG223	93ZE06D37 SF1187	0	3 Y M N N N	IDAG06::QT
	VOA#1	05/18/93 #15		Dil=1.00000	^AG223::D2
	REPRT OPTIONS: Label Meth:4, B option, Qion replaces Scan#				
013)	>AG224	93ZE06S39 SF1187	0	3 Y M N N N	IDAG06::QT
	VOA#1	05/18/93 #16		Dil=1.00000	^AG224::D2
	REPRT OPTIONS: Label Meth:4, B option, Qion replaces Scan#				
014)	>AG225	BAKE	0	3 N M N N N	IDAG06::QT
	BO#1	05/18/93 #16		Dil=1.00000	
	REPRT OPTIONS: Label Meth:4, B option, Qion replaces Scan#				

End of sequence file.

```
FMGR : BLIST,BAAG19

 Sequence File: BAAG19::SC
 ------------------------------------------

 Tune File: MTMSD1

 CR List: D4,D3,D2,D1
 CR Cut-off:  2000 blocks.
                                                    Report Data Archive
                                                   Quant | | ID Archive
 Number of samples:  10                   Sample Size | | | | Output Archive
                                         Bottle      | | | | | |
 Samp Data File     Sample Name                |      | | | | | |     Quant ID
  No. Method File   Misc Data                  |      | | | | | |     Quant Output
 ---- ------------ ------------------------ -------------------  ------------
 001) >AG240        5 PPB VOA STD              0      3 Y M N N N     IDAG08::QT
      VOA#1         5/25/93  HP#4, 5mL PURGE        Dil=1.00000     ^AG240::D5
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.200
      REPRT OPTIONS: Qion replaces Scan#, Omit types:I-S
 002) >AG241        25 PPB VOA STD             0      3 Y M N N N     IDAG08::QT
      VOA#1         5/25/93  HP#4, 5mL PURGE        Dil=1.00000     ^AG241::D5
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.200
      REPRT OPTIONS: Qion replaces Scan#, Omit types:I-S
 003) >AG242        50 PPB VOA STD             0      3 Y M N N N     IDAG08::QT
      VOA#1         5/25/93  HP#4, 5mL PURGE        Dil=1.00000     ^AG242::D5
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.200
      REPRT OPTIONS: Qion replaces Scan#, Omit types:I-S
 004) >AG243        100 PPB VOA STD            0      3 Y M N N N     IDAG08::QT
      VOA#1         5/25/93  HP#4, 5mL PURGE        Dil=1.00000     ^AG243::D5
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.200
      REPRT OPTIONS: Qion replaces Scan#, Omit types:I-S
 005) >AG244        150 PPB VOA STD            0      3 Y M N N N     IDAG08::QT
      VOA#1         5/25/93  HP#4, 5mL PURGE        Dil=1.00000     ^AG244::D5
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.200
      REPRT OPTIONS: Qion replaces Scan#, Omit types:I-S
 006) >AG245        LAB BLANK #1               0      3 Y M N N N     IDAG08::QT
      VOA#1         5/25/93  HP#4, 5mL PURGE        Dil=1.00000     ^AG245::D5
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.200
      REPRT OPTIONS: Qion replaces Scan#, Omit types:I-S
 007) >AG246        LAB BLANK #2               0      3 Y M N N N     IDAG08::QT
      VOA#1         5/25/93  HP#4, 5mL PURGE        Dil=1.00000     ^AG246::D5
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.200
      REPRT OPTIONS: Qion replaces Scan#, Omit types:I-S
 008) >AG247        ICAL CHECK                 0      3 Y M N N N     IDAG08::QT
      VOA#1         5/25/93  HP#4, 5mL PURGE        Dil=1.00000     ^AG247::D5
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.200
      REPRT OPTIONS: Qion replaces Scan#, Omit types:I-S
 009) >AG248        LAB BLANK #3               0      3 Y M N N N     IDAG08::QT
      VOA#1         5/25/93  HP#4, 5mL PURGE        Dil=1.00000     ^AG248::D5
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.200
      REPRT OPTIONS: Qion replaces Scan#, Omit types:I-S
 010) >XX249        BAKEOUT                    0      3 N N N N N     IDAG08::QT
      BO#1          5/25/93  HP#4, 5mL PURGE        Dil=1.00000
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.200
      REPRT OPTIONS: Qion replaces Scan#, Omit types:I-S

 End of sequence file.
```

FMGR : BLIST,BAAG20

Sequence File: BAAG20::SC

Tune File: MTMSD1

CR List: D4,D3,D3,D1
CR Cut-off: 2000 blocks.

Number of samples: 7

Samp No.	Data File / Method File	Sample Name / Misc Data	Sample Size / Bottle	Report Data Archive / Quant ID Archive / Output Archive	Quant ID / Quant Output
001)	>AG249	93ZE06R62 (SF1187)	0	3 Y M N N N	IDAG08::QT
	VOA#1	5/25/93, HP MS#4, 5mL PU		Dil=1.00000	^AG249::D5
	REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.100				
	REPRT OPTIONS: Qion replaces Scan#, Omit types:I-S				
002)	>AG250	93ZE06R63 (SF1187)	0	3 Y M N N N	IDAG08::QT
	VOA#1	5/25/93, HP MS#4, 5mL PU		Dil=1.00000	^AG250::D5
	REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.100				
	REPRT OPTIONS: Qion replaces Scan#, Omit types:I-S				
003)	>AG251	93ZE06R64 (SF1187)	0	3 Y M N N N	IDAG08::QT
	VOA#1	5/25/93, HP MS#4, 5mL PU		Dil=1.00000	^AG251::D5
	REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.100				
	REPRT OPTIONS: Qion replaces Scan#, Omit types:I-S				
004)	>AG252	93ZE33S38 (SF1187)	0	3 Y M N N N	IDAG08::QT
	VOA#1	5/25/93, HP MS#4, 5mL PU		Dil=1.00000	^AG252::D5
	REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.100				
	REPRT OPTIONS: Qion replaces Scan#, Omit types:I-S				
005)	>AG253	93ZE33S39DL1(SF1187)	0	3 Y M N N N	IDAG08::QT
	VOA#1	100X DIL, 50uL/5mL PURGE		Dil=1.00000	^AG253::D5
	REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.100				
	REPRT OPTIONS: Qion replaces Scan#, Omit types:I-S				
006)	>AG254	93ZE33S39DL2(SF1187)	0	3 Y M N N N	IDAG08::QT
	VOA#1	50X DIL, 100uL/5mL PURGE		Dil=1.00000	^AG254::D5
	REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.100				
	REPRT OPTIONS: Qion replaces Scan#, Omit types:I-S				
007)	>XX255	BAKEOUT	0	3 N N N N N	IDAG08::QT
	BO#1			Dil=1.00000	
	REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.100				
	REPRT OPTIONS: Qion replaces Scan#, Omit types:I-S				

End of sequence file.

Files were not acquired -
Autorun aborted

ag 5/26/93

```
FMGR : BLIST,BAAG22

 Sequence File: BAAG22::SC
 ------------------------------------------

 Tune File: M1MSD1

 CR List: D4,D3,D2,D1
 CR Cut-off:  2000 blocks.
                                                        Report Data Archive
                                                       Quant | | ID Archive
 Number of samples:   3                     Sample Size | | | | Output Archive
                                           Bottle      | | | | | | |
 Samp Data File     Sample Name                |      | | | | | | |     Quant ID
  No. Method File   Misc Data                   |      | | | | | | |     Quant Output
 ---- ------------ ------------------------ -------------------  ------------
 001) >AG257       LAB BLANK #3               0      3 Y M N N N     IDAG09::QT
      VOA#1        5/26/93, HP MS#4, 5mL PU        Dil=1.00000     ^AG257::D5
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.100
      REPRT OPTIONS: Qion replaces Scan#, Omit types:I-S
 002) >AG258       93ZE33S39DL1 10X DIL       0      3 Y M N N N     IDAG09::QT
      VOA#1        5/26/93, HP MS#4, 500uL/        Dil=1.00000     ^AG258::D5
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.100
      REPRT OPTIONS: Qion replaces Scan#, Omit types:I-S
 003) >XX259       BAKEOUT                    0      3 N N N N N     IDAG09::QT
      BO#1         5/26/93, HP MS#4, 500uL/        Dil=1.00000
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.100
      REPRT OPTIONS: Qion replaces Scan#, Omit types:I-S

 End of sequence file.
```

```
FMGR : BLIST,BAAG23

 Sequence File: BAAG23::SC
 ------------------------------------------

 Tune File: MTMSD1

 CR List: D4,D3,D2,D1
 CR Cut-off:  2000 blocks.
                                                   Report Data Archive
                                                  Quant | | ID Archive
 Number of samples:   9                   Sample Size | | | | Output Archive
                                         Bottle       | | | | | |
 Samp Data File     Sample Name                |      | | | | | |     Quant ID
  No. Method File   Misc Data                   |      | | | | | |     Quant Output
 ---- ------------- ------------------------ -------------------  ------------
 001) >AG259        93ZE33D39DL1 10X DIL       0      3 Y M N N N     IDAG09::QT
      VOA#1         5/26/93, 500uL/5mL PURGE         Dil=1.00000     ^AG259::D5
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.100
      REPRT OPTIONS: Qion replaces Scan#, Omit types:I-S
 002) >AG260        93ZE33S39MS  10X DIL       0      3 Y M N N N     IDAG09::QT
      VOA#1         5/26/93, 500uL/5mL PURGE         Dil=1.00000     ^AG260::D5
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.100
      REPRT OPTIONS: Qion replaces Scan#, Omit types:I-S
 003) >AG261        93ZE33S39MSD 10X DIL       0      3 Y M N N N     IDAG09::QT
      VOA#1         5/26/93, 500uL/5mL PURGE         Dil=1.00000     ^AG261::D5
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.100
      REPRT OPTIONS: Qion replaces Scan#, Omit types:I-S
 004) >AG262        BLANK                      0      3 Y M N N N     IDAG09::QT
      VOA#1         5/26/93, 5mL PURGE               Dil=1.00000     ^AG262::D5
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.100
      REPRT OPTIONS: Qion replaces Scan#, Omit types:I-S
 005) >AG263        93ZE33S36    SF1187        0      3 Y M N N N     IDAG09::QT
      VOA#1         5/26/93, 5mL PURGE               Dil=1.00000     ^AG263::D5
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.100
      REPRT OPTIONS: Qion replaces Scan#, Omit types:I-S
 006) >AG264        93ZE33S36MS  SF1187        0      3 Y M N N N     IDAG09::QT
      VOA#1         5/26/93, 5mL PURGE               Dil=1.00000     ^AG264::D5
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.100
      REPRT OPTIONS: Qion replaces Scan#, Omit types:I-S
 007) >AG265        93ZE33S36MSD SF1187        0      3 Y M N N N     IDAG09::QT
      VOA#1         5/26/93, 5mL PURGE               Dil=1.00000     ^AG265::D5
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.100
      REPRT OPTIONS: Qion replaces Scan#, Omit types:I-S
 008) >AG266        93ZE33S36MSR SF1187        0      3 Y M N N N     IDAG09::QT
      VOA#1         5/26/93, 5mL PURGE               Dil=1.00000     ^AG266::D5
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.100
      REPRT OPTIONS: Qion replaces Scan#, Omit types:I-S
 009) >XX267        BAKEOUT                    0      3 N N N N N     IDAG09::QT
      VOA#1         5/26/93, 5mL PURGE               Dil=1.00000
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.100
      REPRT OPTIONS: Qion replaces Scan#, Omit types:I-S

 End of sequence file.
```

```
FMGR : BLIST,BAAG24

 Sequence File: BAAG24::SC
 ------------------------------------------

 Tune File: MTMSD1

 CR List: D4,D3,D2,D1
 CR Cut-off:  2000 blocks.
                                                   Report Data Archive
                                                  Quant | | ID Archive
 Number of samples:   5                   Sample Size | | | | Output Archive
                                         Bottle     | | | | | | |
 Samp Data File     Sample Name              |     | | | | | | |    Quant ID
  No. Method File   Misc Data                 |     | | | | | | |    Quant Output
 ---- ------------ ------------------------ ------------------- ------------
 001) >AG268       50 PPB CC STD.           0     3 Y M N N N    IDAG10::QT
      VOA#1        5/27/93, HP MS#4, 5mL PU       Dil=1.00000    ^AG268::D5
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.100
      REPRT OPTIONS: Qion replaces Scan#, Omit types:I-S
 002) >AG269       50 PPB CC STD.           0     3 Y M N N N    IDAG10::QT
      VOA#1        5/27/93, HP MS#4, 5mL PU       Dil=1.00000    ^AG269::D5
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.100
      REPRT OPTIONS: Qion replaces Scan#, Omit types:I-S
 003) >AG270       LAB BLANK #1             0     3 Y M N N N    IDAG10::QT
      VOA#1        5/27/93, HP MS#4, 5mL PU       Dil=1.00000    ^AG270::D5
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.100
      REPRT OPTIONS: Qion replaces Scan#, Omit types:I-S
 004) >AG271       LAB BLANK #2             0     3 Y M N N N    IDAG10::QT
      VOA#1        5/27/93, HP MS#4, 5mL PU       Dil=1.00000    ^AG271::D5
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.100
      REPRT OPTIONS: Qion replaces Scan#, Omit types:I-S
 005) >XX272       bakeout                  0     3 N N N N N    IDAG10::QT
      BO#1         5/27/93, HP MS#4, 5mL PU       Dil=1.00000
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.100
      REPRT OPTIONS: Qion replaces Scan#, Omit types:I-S

 End of sequence file.
```

```
FMGR : BLIST,BAAG25

 Sequence File: BAAG25::SC
 ------------------------------------------

 Tune File: MIMSD1

 CR List: D4,D3,D2,D1
 CR Cut-off:  2000 blocks.
                                                   Report Data Archive
                                                  Quant | | ID Archive
 Number of samples:   4                   Sample Size | | | | Output Archive
                                         Bottle      | | | | | |
 Samp Data File     Sample Name                |      | | | | | |     Quant ID
  No. Method File   Misc Data                   |      | | | | | |     Quant Output
 ---- ------------ ------------------------ -------------------  ------------
 001) >AG272        93ZE33S38MS   SF1187     0      3 Y M N N N     IDAG10::QT
      VOA#1         5/27/93, HP MS#4, 5mL PU        Dil=1.00000     ^AG272::D5
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.100
      REPRT OPTIONS: Qion replaces Scan#, Omit types:I-S
 002) >AG273        93ZE33S38MSD  SF1187     0      3 Y M N N N     IDAG10::QT
      VOA#1         5/27/93, HP MS#4, 5mL PU        Dil=1.00000     ^AG273::D5
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.100
      REPRT OPTIONS: Qion replaces Scan#, Omit types:I-S
 003) >AG274        93ZE33S38MSR  SF1187     0      3 Y M N N N     IDAG10::QT
      VOA#1         5/27/93, HP MS#4, 5mL PU        Dil=1.00000     ^AG274::D5
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.100
      REPRT OPTIONS: Qion replaces Scan#, Omit types:I-S
 004) >XX275        BAKEOUT                   0      3 N N N N N     IDAG10::QT
      BO#1          5/27/93, HP MS#4, 5mL PU        Dil=1.00000
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.100
      REPRT OPTIONS: Qion replaces Scan#, Omit types:I-S

 End of sequence file.
```

ASK DESC:VO NUMBER OF ENTRIES: 10 CURRENT INDEX: 1 25 MAY 93

1

NO.	VIAL	FILE	SAMPLE
1	7	IC250525B	CLP,1187,,IC250525,L,W,,V,IC25 **
2	8	IC100525B	CLP,1187,,IC100525,L,W,,V,IC10
3	9	0525BLK1	CLP,1187,,0525BLK1,L,W,,V,BLANK
4	10	0525BLK2	CLP,1187,,0525BLK1,L,W,,V,BLANK
5	11	0525ICHK	CLP,1187,,0525ICHK,L,W,,V,EPA
6	12	93ZE33S37D	CLP,1187,,93ZE33S37D,L,W,V,EPA 1:20
7	13	93ZE33D37D	CLP,1187,,93ZE33D37D,L,W,V,EPA 1:20
8	14	93ZE33S39D1	CLP,1187,,93ZE33S39D1,L,W,,V,EPA 1:100
9	15	93ZE33S39D2	CLP,1187,,93ZE33S39D2,L,W,,V,EPA 1:20
10	16	JUNK	

```
ASK     DESC:VO   NUMBER OF ENTRIES: 10 CURRENT INDEX:  1                                                    25 MAY 93
ENTRY NO.:  1                    FILE NAME:   IC250525B  **
SAMPLE: CLP,1187,,IC250525,L,W,,V,IC25
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
FORMULA:                         ANALYST : ZAR              WEIGHT:   0.000
SUBMITTED BY:                    ACCT. NO:                  PROC:DOTCA
AS-DESC: VO   GC-DESC: VO   SEQ-DESC: VO    VIAL NO:  7
ENTRY NO.:  2                    FILE NAME:   IC100525B
SAMPLE: CLP,1187,,IC100525,L,W,,V,IC10
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
FORMULA:                         ANALYST : ZAR              WEIGHT:   0.000
SUBMITTED BY:                    ACCT. NO:                  PROC:DOTCA
AS-DESC: VO   GC-DESC: VO   SEQ-DESC: VO    VIAL NO:  8
ENTRY NO.:  3                    FILE NAME:   0525BLK1
SAMPLE: CLP,1187,,0525BLK1,L,W,,V,BLANK
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
FORMULA:                         ANALYST : ZAR              WEIGHT:   0.000
SUBMITTED BY:                    ACCT. NO:                  PROC:DOTCA
AS-DESC: VO   GC-DESC: VO   SEQ-DESC: VO    VIAL NO:  9
ENTRY NO.:  4                    FILE NAME:   0525BLK2
SAMPLE: CLP,1187,,0525BLK1,L,W,,V,BLANK
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
FORMULA:                         ANALYST : ZAR              WEIGHT:   0.000
SUBMITTED BY:                    ACCT. NO:                  PROC:DOTCA
AS-DESC: VO   GC-DESC: VO   SEQ-DESC: VO    VIAL NO: 10
ENTRY NO.:  5                    FILE NAME:   0525ICHK
SAMPLE: CLP,1187,,0525ICHK,L,W,,V,EPA
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
FORMULA:                         ANALYST : ZAR              WEIGHT:   0.000
SUBMITTED BY:                    ACCT. NO:                  PROC:DOTCA
AS-DESC: VO   GC-DESC: VO   SEQ-DESC: VO    VIAL NO: 11
ENTRY NO.:  6                    FILE NAME:   93ZE33S37D
SAMPLE: CLP,1187,,93ZE33S37D,L,W,V,EPA 1:20
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
FORMULA:                         ANALYST : ZAR              WEIGHT:   0.000
SUBMITTED BY:                    ACCT. NO:                  PROC:DOTCA
AS-DESC: VO   GC-DESC: VO   SEQ-DESC: VO    VIAL NO: 12


MORE TO COME, TYPE <CR> TO CONTINUE...
```

ASK DESC:VO NUMBER OF ENTRIES: 10 CURRENT INDEX: 1 25 MAY 93

1

ENTRY NO.: 7 FILE NAME: 93ZE33D37D
SAMPLE: CLP,1187,,93ZE33D37D,L,W,V,EPA 1:20
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
FORMULA: ANALYST : ZAR WEIGHT: 0.000
SUBMITTED BY: ACCT. NO: PROC:DOTCA
AS-DESC: VO GC-DESC: VO SEQ-DESC: VO VIAL NO: 13

ENTRY NO.: 8 FILE NAME: 93ZE33S39D1
SAMPLE: CLP,1187,,93ZE33S39D1,L,W,,V,EPA 1:100
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
FORMULA: ANALYST : ZAR WEIGHT: 0.000
SUBMITTED BY: ACCT. NO: PROC:DOTCA
AS-DESC: VO GC-DESC: VO SEQ-DESC: VO VIAL NO: 14

ENTRY NO.: 9 FILE NAME: 93ZE33S39D2
SAMPLE: CLP,1187,,93ZE33S39D2,L,W,,V,EPA 1:20
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
FORMULA: ANALYST : ZAR WEIGHT: 0.000
SUBMITTED BY: ACCT. NO: PROC:DOTCA
AS-DESC: VO GC-DESC: VO SEQ-DESC: VO VIAL NO: 15

ENTRY NO.: 10 FILE NAME: JUNK
SAMPLE:
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
FORMULA: ANALYST : ZAR WEIGHT: 0.000
SUBMITTED BY: ACCT. NO: PROC:DOTCA
AS-DESC: VO GC-DESC: BK SEQ-DESC: VO VIAL NO: 16

ASK DESC:VO NUMBER OF ENTRIES: 17 CURRENT INDEX: 6 26 MAY 93

NO.	VIAL	FILE	SAMPLE
1	1	CC0526	CLP,1187,,CC0526,L,W,,V,CC **
2	2	CC0526B	CLP,1187,,CC0526B,L,W,,V,CC **
3	3	0526BLK1	CLP,1187,,0526BLK1,L,W,,V,BLANK **
4	4	0526BLK2	CLP,1187,,0526BLK2,L,W,,V,BLANK **
5	5	93ZE33S38	CLP,1187,,93ZE33S38,L,W,,V,EPA **
6	6	93ZE33D38	CLP,1187,,93ZE33D38,L,W,,V,EPA **
7	7	93ZE33S38MS	CLP,1187,,93ZE33S38MS,L,W,,V,MS
8	8	93ZE33S38MSD	CLP,1187,,93ZE33S38MSD,L,W,,V,MSD
9	9	93ZE33S38MSR	CLP,1187,,93ZE33S38MSR,L,W,,V,MS
10	10	93ZE33S39D	CLP,1187,,93ZE33S39D,L,W,,V,EPA 1:50
11	11	93ZE33D39D	CLP,1187,,93ZE33D39D,L,W,,V,EPA 1:50
12	12	93ZE33S39MS	CLP,1187,,93ZE33S39MS,L,W,,V,MS 1:50
13	13	93ZE33S39MSD	CLP,1187,,93ZE33S39MSD,L,W,,V,MSD 1:50
14	14	93ZE33S39MSR	CLP,1187,,93ZE33S39MSR,L,W,,V,MSR 1:50
15	15	93ZE33S39DR	CLP,1187,,93ZE33S39DR,L,W,,V,EPA 1:10
16	16	93ZE33D39DR	CLP,1187,,93ZESSD39DR,L,W,,V,EPA 1:10
17	17	JUNK	

ASK DESC:VO NUMBER OF ENTRIES: 17 CURRENT INDEX: 6 26 MAY 93

ENTRY NO.: 1 FILE NAME: CC0526 **
SAMPLE: CLP,1187,,CC0526,L,W,,V,CC
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
FORMULA: ANALYST : ZAR WEIGHT: 0.000
SUBMITTED BY: ACCT. NO: PROC:DOTCA
AS-DESC: VO GC-DESC: VO SEQ-DESC: VO VIAL NO: 1

ENTRY NO.: 2 FILE NAME: CC0526B **
SAMPLE: CLP,1187,,CC0526B,L,W,,V,CC
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
FORMULA: ANALYST : ZAR WEIGHT: 0.000
SUBMITTED BY: ACCT. NO: PROC:DOTCA
AS-DESC: VO GC-DESC: VO SEQ-DESC: VO VIAL NO: 2

ENTRY NO.: 3 FILE NAME: 0526BLK1 **
SAMPLE: CLP,1187,,0526BLK1,L,W,,V,BLANK
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
FORMULA: ANALYST : ZAR WEIGHT: 0.000
SUBMITTED BY: ACCT. NO: PROC:DOTCA
AS-DESC: VO GC-DESC: VO SEQ-DESC: VO VIAL NO: 3

ENTRY NO.: 4 FILE NAME: 0526BLK2 **
SAMPLE: CLP,1187,,0526BLK2,L,W,,V,BLANK
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
FORMULA: ANALYST : ZAR WEIGHT: 0.000
SUBMITTED BY: ACCT. NO: PROC:DOTCA
AS-DESC: VO GC-DESC: VO SEQ-DESC: VO VIAL NO: 4

ENTRY NO.: 5 FILE NAME: 93ZE33S38 **
SAMPLE: CLP,1187,,93ZE33S38,L,W,,V,EPA
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
FORMULA: ANALYST : ZAR WEIGHT: 0.000
SUBMITTED BY: ACCT. NO: PROC:DOTCA
AS-DESC: VO GC-DESC: VO SEQ-DESC: VO VIAL NO: 5

ENTRY NO.: 6 FILE NAME: 93ZE33D38 **
SAMPLE: CLP,1187,,93ZE33D38,L,W,,V,EPA
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
FORMULA: ANALYST : ZAR WEIGHT: 0.000
SUBMITTED BY: ACCT. NO: PROC:DOTCA
AS-DESC: VO GC-DESC: VO SEQ-DESC: VO VIAL NO: 6

MORE TO COME, TYPE <CR> TO CONTINUE...

ASK DESC:VO NUMBER OF ENTRIES: 17 CURRENT INDEX: 6 26 MAY 93

ENTRY NO.: 7 FILE NAME: 93ZE33S38MS
SAMPLE: CLP,1187,,93ZE33S38MS,L,W,,V,MS
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
FORMULA: ANALYST : ZAR WEIGHT: 0.000
SUBMITTED BY: ACCT. NO: PROC:DOTCA
AS-DESC: VO GC-DESC: VO SEQ-DESC: VO VIAL NO: 7

ENTRY NO.: 8 FILE NAME: 93ZE33S38MSD
SAMPLE: CLP,1187,,93ZE33S38MSD,L,W,,V,MSD
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
FORMULA: ANALYST : ZAR WEIGHT: 0.000
SUBMITTED BY: ACCT. NO: PROC:DOTCA
AS-DESC: VO GC-DESC: VO SEQ-DESC: VO VIAL NO: 8

ENTRY NO.: 9 FILE NAME: 93ZE33S38MSR
SAMPLE: CLP,1187,,93ZE33S38MSR,L,W,,V,MS
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
FORMULA: ANALYST : ZAR WEIGHT: 0.000
SUBMITTED BY: ACCT. NO: PROC:DOTCA
AS-DESC: VO GC-DESC: VO SEQ-DESC: VO VIAL NO: 9

ENTRY NO.: 10 FILE NAME: 93ZE33S39D
SAMPLE: CLP,1187,,93ZE33S39D,L,W,,V,EPA 1:50
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
FORMULA: ANALYST : ZAR WEIGHT: 0.000
SUBMITTED BY: ACCT. NO: PROC:DOTCA
AS-DESC: VO GC-DESC: VO SEQ-DESC: VO VIAL NO: 10

ENTRY NO.: 11 FILE NAME: 93ZE33D39D
SAMPLE: CLP,1187,,93ZE33D39D,L,W,,V,EPA 1:50
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
FORMULA: ANALYST : ZAR WEIGHT: 0.000
SUBMITTED BY: ACCT. NO: PROC:DOTCA
AS-DESC: VO GC-DESC: VO SEQ-DESC: VO VIAL NO: 11

ENTRY NO.: 12 FILE NAME: 93ZE33S39MS
SAMPLE: CLP,1187,,93ZE33S39MS,L,W,,V,MS 1:50
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
FORMULA: ANALYST : ZAR WEIGHT: 0.000
SUBMITTED BY: ACCT. NO: PROC:DOTCA
AS-DESC: VO GC-DESC: VO SEQ-DESC: VO VIAL NO: 12

MORE TO COME, TYPE <CR> TO CONTINUE...

ASK DESC:VO NUMBER OF ENTRIES: 17 CURRENT INDEX: 6 26 MAY 93

ENTRY NO.: 13 FILE NAME: 93ZE33S39MSD
SAMPLE: CLP,1187,,93ZE33S39MSD,L,W,,V,MSD 1:50
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
FORMULA: ANALYST : ZAR WEIGHT: 0.000
SUBMITTED BY: ACCT. NO: PROC:DOTCA
AS-DESC: VO GC-DESC: VO SEQ-DESC: VO VIAL NO: 13

ENTRY NO.: 14 FILE NAME: 93ZE33S39MSR
SAMPLE: CLP,1187,,93ZE33S39MSR,L,W,,V,MSR 1:50
CONDS.: 45' (3 MIN) TO 220' @ 8'/MIN
FORMULA: ANALYST : ZAR WEIGHT: 0.000
SUBMITTED BY: ACCT. NO: PROC:DOTCA
AS-DESC: VO GC-DESC: VO SEQ-DESC: VO VIAL NO: 14

ENTRY NO.: 15 FILE NAME: 93ZE33S39DR
SAMPLE: CLP,1187,,93ZE33S39DR,L,W,,V,EPA 1:10
CONDS.: 10
FORMULA: ANALYST : ZAR WEIGHT: 0.000
SUBMITTED BY: ACCT. NO: PROC:DOTCA
AS-DESC: VO GC-DESC: VO SEQ-DESC: VO VIAL NO: 15

ENTRY NO.: 16 FILE NAME: 93ZE33D39DR
SAMPLE: CLP,1187,,93ZESSD39DR,L,W,,V,EPA 1:10
CONDS.: 10
FORMULA: ANALYST : ZAR WEIGHT: 0.000
SUBMITTED BY: ACCT. NO: PROC:DOTCA
AS-DESC: VO GC-DESC: VO SEQ-DESC: VO VIAL NO: 16

ENTRY NO.: 17 FILE NAME: JUNK
SAMPLE:
CONDS.:
FORMULA: ANALYST : ZAR WEIGHT: 0.000
SUBMITTED BY: ACCT. NO: PROC:DOTCA
AS-DESC: VO GC-DESC: BK SEQ-DESC: VO VIAL NO: 17

QUANT REPORT

Operator ID: TONY
Output File: ^AG222::D2
Data File: >AG222::D3
Name: 93ZE06S37 SF1187
Misc: 05/18/93 #14

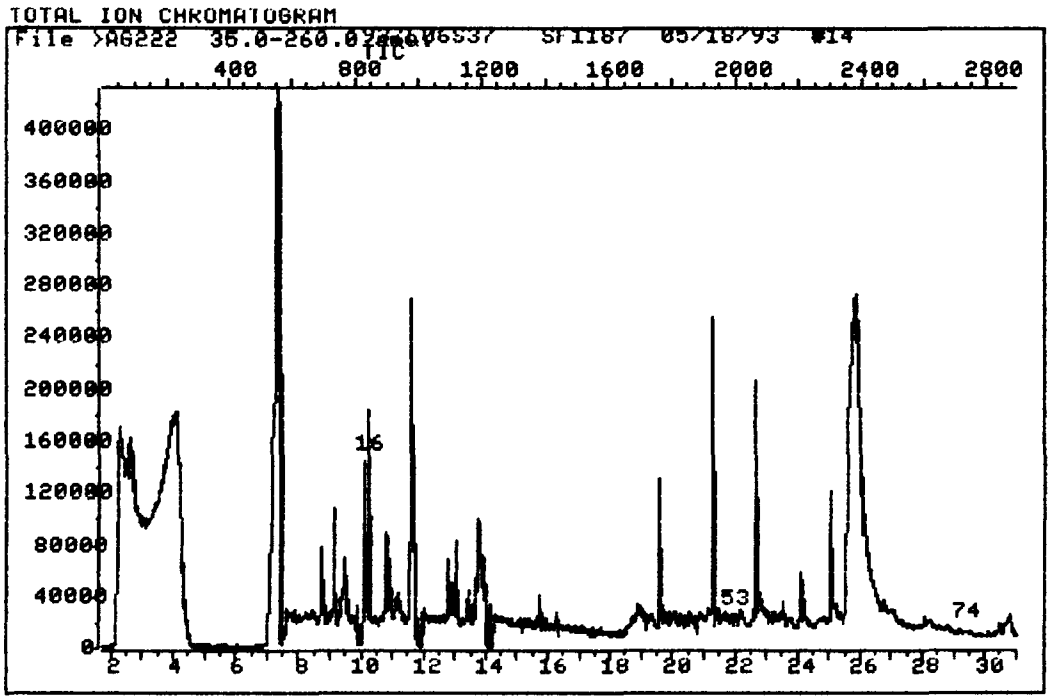
Quant Rev: 7
Quant Time: 930519 08:10
Injected at: 930519 07:37
Dilution Factor: 1.00000
Instrument ID: HP MS#4

ID File: IDAG06::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930518 10:10
Last Qcal Time: <none>

	Compound	R.T.	Q ion	Area	Conc	Units	q
16)	Vinyl acetate	10.06	43.0	3287	3287.00	COUNTS	100
53)	p-BROMOFLUOROBENZENE	21.73	174.0	298	298.00	COUNTS	95
74)	1,2,3-Trichlorobenzene	29.18	180.0	1705	1705.00	COUNTS	71

Data not used

TOTAL ION CHROMATOGRAM



Data File: >AG222::D3 Quant Output File: ^AG222::D2
Name: 93ZE06S37 SF1187 Instrument ID: HP MS#4
Misc: 05/18/93 #14

Id File: IDAG06::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930518 10:10 Last Qcal Time: <none>

Operator ID: TONY
Quant Time : 930519 08:10
Injected at: 930519 07:37

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93ZE06S36

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE06S36

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG221

Level: (low/med) LOW Date Received: 05/13/93

% Moisture: not dec. ---- Date Analyzed: 05/18/93

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	3	U
74-87-3	Chloromethane	3	U
75-01-4	Vinyl chloride	3	U
74-83-9	Bromomethane	3	U
75-00-3	Chloroethane	3	U
75-69-4	Trichlorofluoromethane	3	U
107-64-1	Acrolein	10	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	15	
75-15-0	Carbon disulfide	2	U
75-09-2	Methylene chloride	2	U
75-35-4	trans-1,2-Dichloroethene	2	U
107-13-1	Acrylonitrile	10	U
75-34-3	1,1-Dichloroethane	2	U
108-05-4	Vinyl acetate	10	U
594-20-7	2,2-Dichloropropane	2	U
540-59-0	cis-1,2-Dichloroethene	2	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	2	U
67-66-3	Chloroform	2	U
71-55-6	1,1,1-Trichloroethane	2	U
56-23-5	Carbon tetrachloride	2	U
563-58-6	1,1-Dichloropropene	2	U
71-43-2	Benzene	2	U
107-06-2	1,2-Dichloroethane	2	U
79-01-6	Trichloroethene	2	U
78-87-5	1,2-Dichloropropane	2	U
74-95-3	Dibromomethane	2	U
110-75-8	2-Chloroethyl vinylether	10	U
75-27-4	Bromodichloromethane	2	U
10061015	cis-1,3-Dichloropropene	2	U
108-88-3	Toluene	2	U
108-10-1	4-Methyl-2-pentanone	5	U
10061026	trans-1,3-Dichloropropene	2	U

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93ZE06S36

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE06S36

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG221

Level: (low/med) LOW Date Received: 05/13/93

% Moisture: not dec. ---- Date Analyzed: 05/18/93

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
142-28-9	1,3-Dichloropropane	2	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	2	U
108-38-3	m &/or p-Xylene	2	U
95-47-6	o-Xylene	2	U
100-42-5	Styrene	2	U
75-25-2	Bromoform	2	U
98-82-8	Isopropylbenzene	2	U
108-86-1	Bromobenzene	2	U
96-18-4	1,2,3-Trichloropropane	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
103-65-1	n-Propylbenzene	2	U
95-49-8	2-Chlorotoluene	2	U
106-43-4	4-Chlorotoluene	2	U
108-67-8	1,3,5-Trimethylbenzene	2	U
98-06-6	tert-Butylbenzene	2	U
95-63-6	1,2,4-Trimethylbenzene	2	U
135-98-8	sec-Butylbenzene	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
99-87-6	p-Isopropyltoluene	2	U
95-50-1	1,2-Dichlorobenzene	2	U
104-51-8	n-Butylbenzene	2	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	2	U
91-20-3	Naphthalene	2	U
87-68-3	Hexachlorobutadiene	2	U
87-61-6	1,2,3-Trichlorobenzene	2	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

93ZE06S36

Lab Name: H. O. D. LANDFILL Contract:LOCKHEED/ESAT

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 93ZE06S36

Sample wt/vol: 5 (g/mL) mL Lab File ID: >AG221

Level: (low/med) LOW Date Received: 5/13/93

% Moisture: not dec.---- Date Analyzed: 5/18/93

Column: CAP Dilution Factor: 1.00000

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

QUANT REPORT

Operator ID: TONY
Output File: ^AG221::D2
Data File: >AG221::D3
Name: 93ZE06S36 SF1187
Misc: 05/18/93 #13

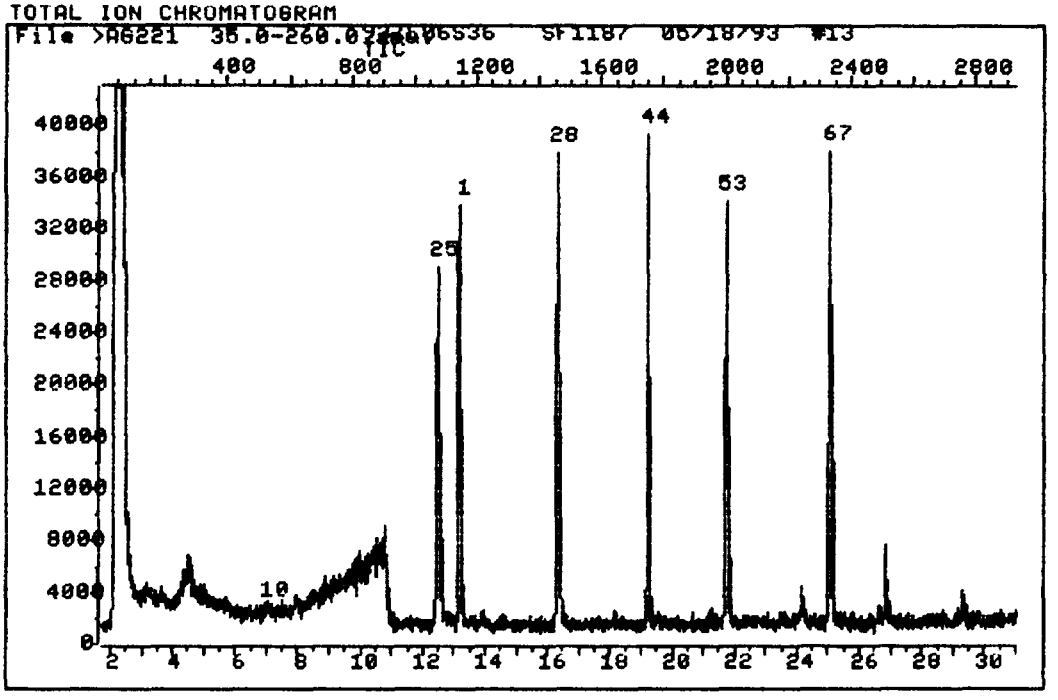
Quant Rev: 7
Quant Time: 930615 16:23
Injected at: 930518 22:35
Dilution Factor: 1.00000
Instrument ID: HP MS#4

ID File: IDAG05::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930518 10:10
Last Qcal Time: 930518 14:24

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.15	96.0	67106	10.00	ug/L	96
10)	Acetone	7.01	43.0	9180M	15.18	ug/L	98
25)	BENZENE-D6	12.45	84.0	62713	9.87	ug/L	98
28)	*TOLUENE-D8	16.28	98.0	63503	10.00	ug/L	98
44)	*CHLOROBENZENE-D5	19.19	117.0	49638	10.00	ug/L	96
53)	p-BROMOFLUOROBENZENE	21.72	174.0	21831	9.05	ug/L	94
67)	1,2-DICHLOROBENZENE-D4	25.03	152.0	22864	9.49	ug/L	93

* Compound is ISTD

TOTAL ION CHROMATOGRAM

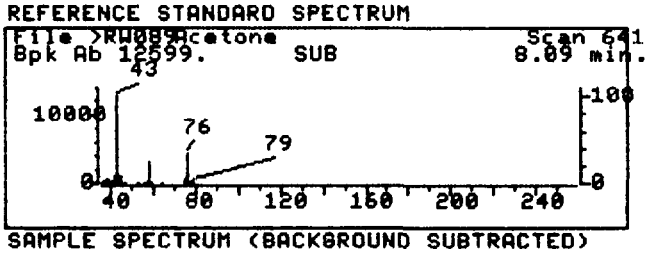


Data File: >AG221::D3 Quant Output File: ^AG221::D2
Name: 93ZE06S36 SF1187 Instrument ID: HP MS#4
Misc: 05/18/93 #13

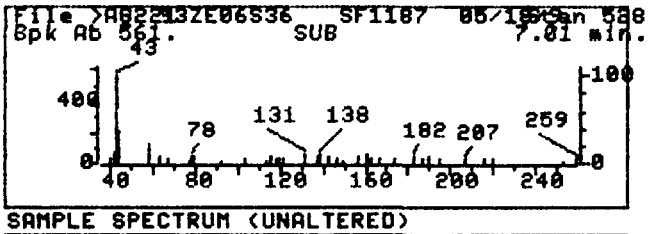
Id File: IDAG05::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930518 10:10 Last Qcal Time: 930518 14:24

Operator ID: TONY
Quant Time : 930615 16:23
Injected at: 930518 22:35

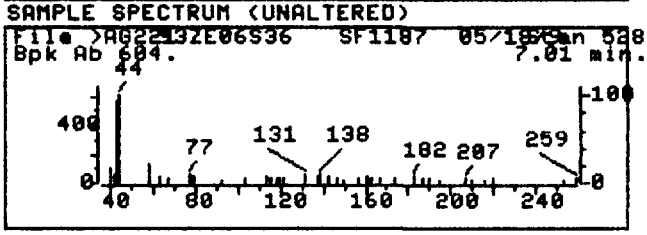
REFERENCE STANDARD SPECTRUM

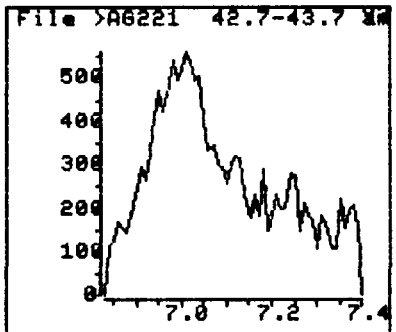


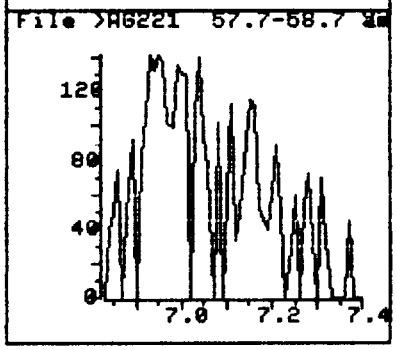
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







Data File: >AG221::D3
Name: 93ZE06S36 SF1187
Misc: 05/18/93 #13
Quant Time: 930615 16:23
Injected at: 930518 22:35
Last Qcal Time: 930518 14:24

Quant Output File: ^AG221::D2
Instrument ID: HP MS#4

Quant ID File: IDAG05::QT
Last Calibration: 930518 10:10

Compound No : 10
Compound Name : Acetone
Scan Number : 528
Retention Time: 7.01 min.
Quant Ion : 43.0
Area : 9180M
Concentration : 15.18 ug/L
q-value : 98

MS data file header from : >AG221::D3

Sample: 93ZE06S36 SF1187 Operator: TONY REG. GRP. 5/18/93 22:35
Misc : 05/18/93 #13
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 0 Equip ID: HP MS#4
Method file: VOA#1 Tuning file: MTMSD1 No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	10.	160.	0.	0.	0.
Chromatographic times, min. :	5.0	5.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	6.0	0.0	0.0	.1	0.0

>AG221 93ZE06S36 SF1187 05/18/93 #13
35.01 260.0 CLP TIC
Upslope: .2000 Area Reject: 16454. Max Peaks: 1 Bunch: -1 Valley >100 %
Dnslope: 0.0000 Results File IAG221 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	26.81	2502	2511	2523	6178	47251	28471	~~100.00~~	~~100.~~000

Sum of corrected areas: 28471.

BQL

Summary of Unknowns PBM Library Search and Quantitation

eg 6/16/93

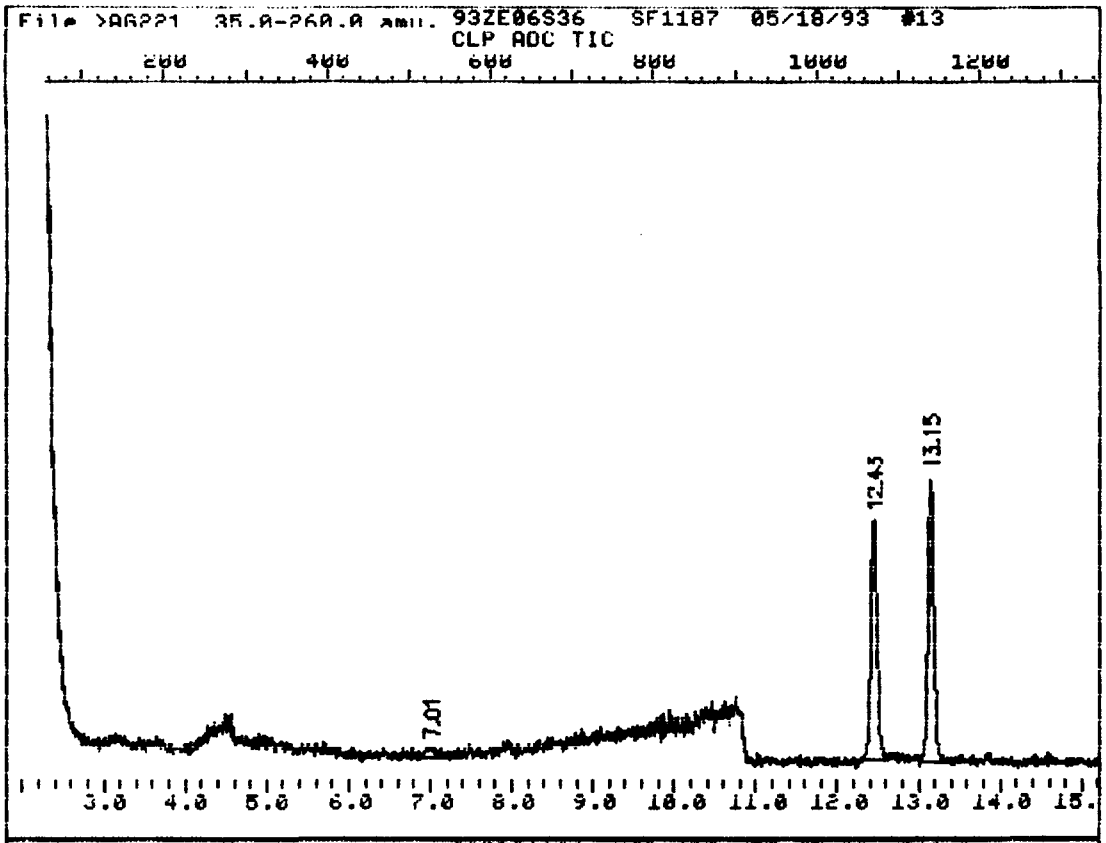
Standard	Concentration	Area	Retention Time	Unknown Window
1	10.0	164539.	13.15	2.30 - 14.71
2	10.0	176130.	16.28	14.71 - 17.74
3	10.0	170264.	19.19	17.74 - 31.02

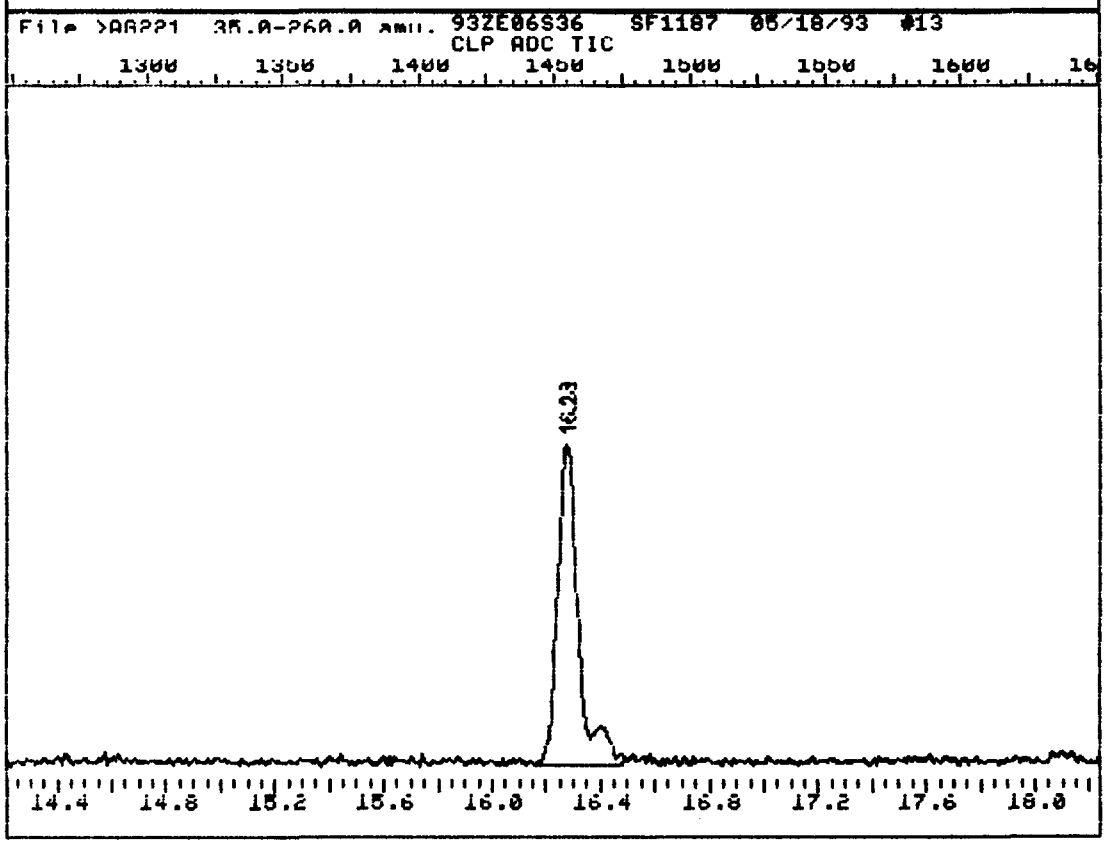
Dilution Factor = 1.00 This sample was 5.00000 g or mL

Correction Factor = 1.00

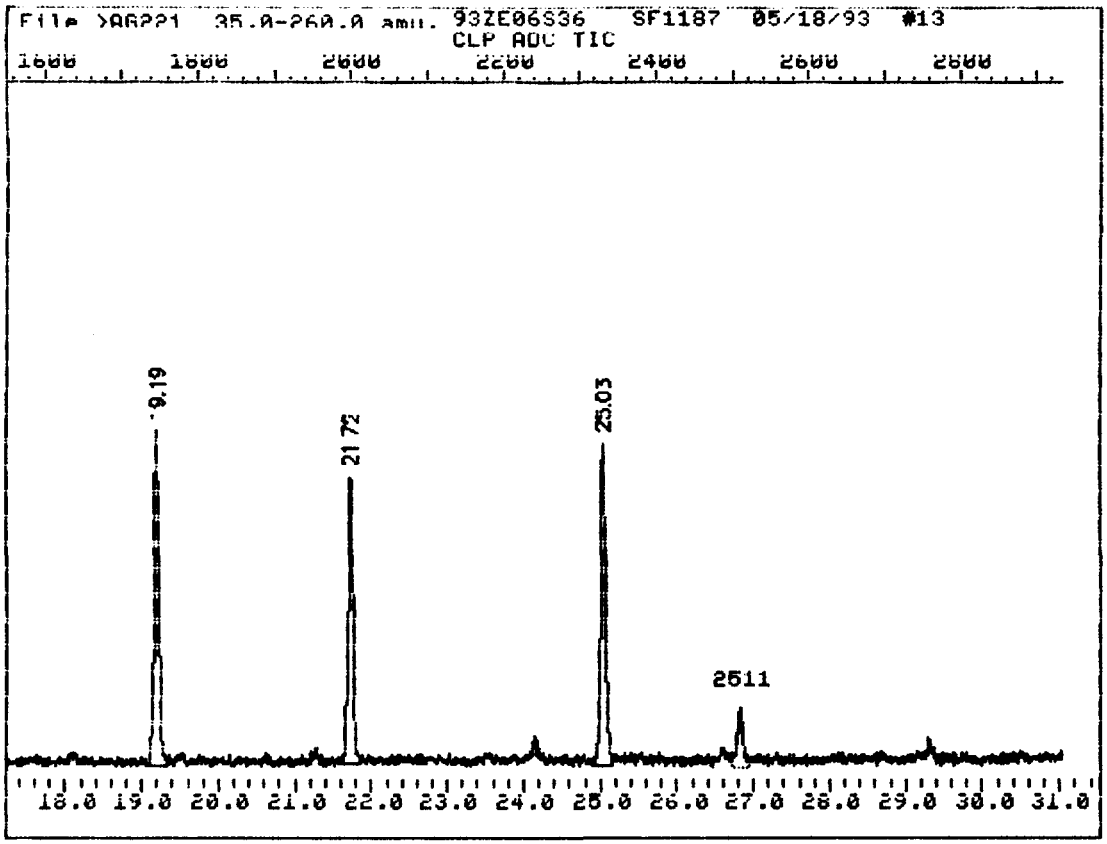
$$\text{Unknown Concentration} = \frac{\text{Conc Int Std} * \text{Area Unknown}}{\text{Area Int Std}} * \text{Correction Factor}$$

12:04 PM WED., 16 JUNE, 1993

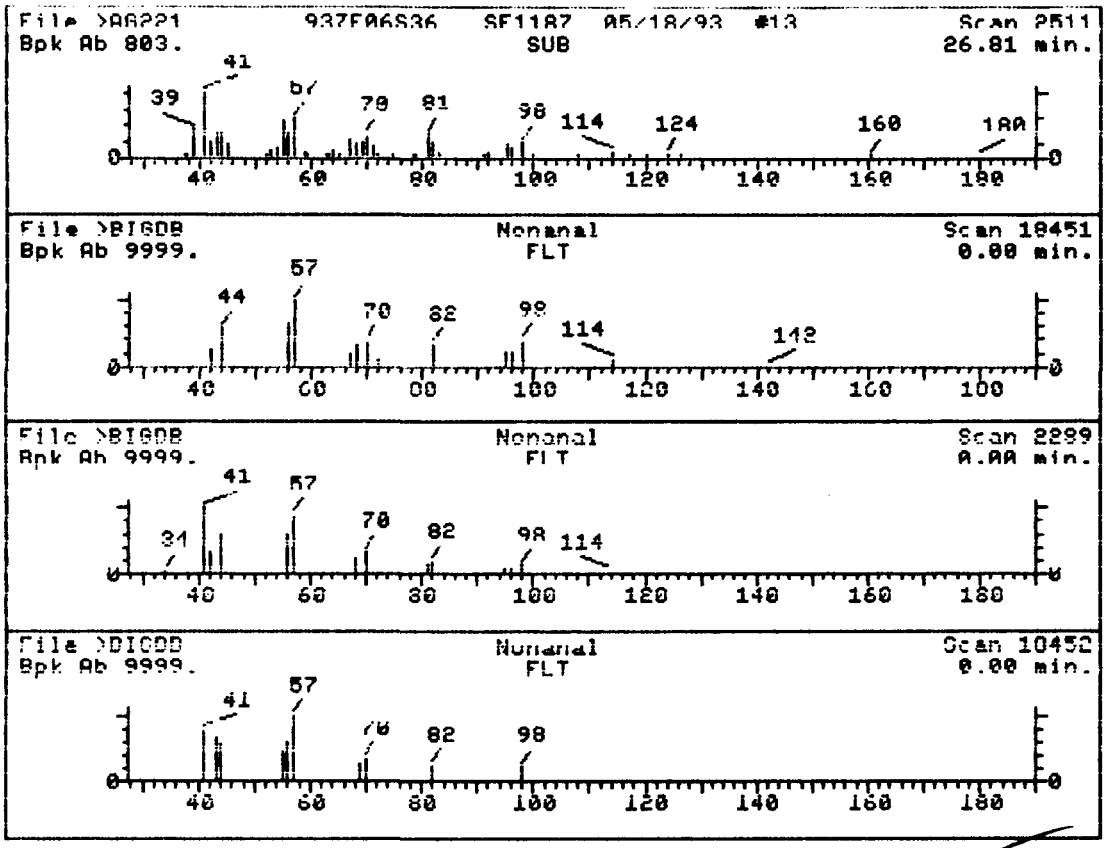




Instrument ID: HP MS# Analyzed on: 5/18/93 22:35



Instrument ID: HP MS# Analyzed on: 5/18/93 22:35



Instrument ID: HP MS# Analyzed on: 5/18/93 22:35
Result 1 in PBM results file: LAG221
Retention Time: 26.81 Area: 28471 Tentative Conc: 2.00
The unknown area is 16.72% of the nearest internal standard

1. Nonanal	142	C9H18O
2. Nonanal	142	C9H18O
3. Nonanal	142	C9H18O
4. Cyclobutanone, 2-ethyl-	98	C6H10O
5. 1-Heptanol	116	C7H16O
6. 1-Heptanol	116	C7H16O

BQL

ag 6/16/93

Sample file: >AG221 Spectrum #: 2511
Search speed: 1 Tilting option: N No. of ion ranges searched: 57

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IV
1.	58	124196	18451	"BIGDB	73	47	1	0	59	16	25		28	
2.	32	124196	2289	"BIGDB	39	72	0	0	62	35	12		15	
3.	25	124196	18452	"BIGDB	29	45	0	0	59	46	7		15	
4.	25*	10374148	17977	"BIGDB	23	76	3	0	58	46	7		12	
5.	20	111706	7172	"BIGDB	35	56	1	0	36	55	5		12	
6.	20	111706	7174	"BIGDB	35	58	0	0	34	55	5		17	

QUANT REPORT

Operator ID: TONY
Quant Rev: 7
Quant Time: 930527 14:28
Output File: ^AG274::D5
Injected at: 930527 13:55
Data File: >AG274::D4
Dilution Factor: 1.00000
Name: 93ZE33S38MSR SF1187
Instrument ID: HP MS#4
Misc: 5/27/93, HP MS#4, 5mL PURGE

ID File: IDAG10::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54
Last Qcal Time: 930527 10:31

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.12	96.0	65642	10.00	ug/L	97
2)	Dichlorodifluoromethane	2.84	85.0	2455	.877	ug/L	78
3)	Chloromethane	3.18	50.0	2462	.903	ug/L	48
4)	Vinyl chloride	3.47	62.0	6132	2.47	ug/L	88
5)	Bromomethane	4.14	94.0	4276	2.36	ug/L	90
6)	Chloroethane	4.39	64.0	4022	3.50	ug/L	92
7)	Trichlorofluoromethane	4.97	101.0	12803	3.44	ug/L	93
9)	1,1-Dichloroethene	6.43	96.0	16636	9.46	ug/L	94
10)	Acetone	6.91	43.0	1562	5.03	ug/L	89
12)	Methylene chloride	7.91	84.0	19866	9.13	ug/L	94
13)	trans-1,2-Dichloroethene	8.51	96.0	17057	8.95	ug/L	99
15)	1,1-Dichloroethane	9.51	63.0	28708	8.24	ug/L	97
17)	2,2-Dichloropropane	10.70	77.0	22922	9.14	ug/L	88
18)	cis-1,2-Dichloroethene	10.80	96.0	17977	9.70	ug/L	96
20)	Bromochloromethane	11.26	128.0	12350	9.75	ug/L	95
21)	Chloroform	11.56	83.0	39813	8.62	ug/L	94
22)	1,1,1-Trichloroethane	11.72	97.0	34259	9.06	ug/L	98
23)	Carbon tetrachloride	12.04	117.0	23929	8.55	ug/L	97
24)	1,1-Dichloropropene	12.09	75.0	23853	8.22	ug/L	98
25)	BENZENE-D6	12.42	84.0	63300	10.13	ug/L	99
26)	Benzene	12.49	78.0	60917	8.78	ug/L	99
27)	1,2-Dichloroethane	12.63	62.0	34547	8.85	ug/L	97
28)	*TOLUENE-D8	16.28	98.0	63520	10.00	ug/L	98
29)	Trichloroethene	13.85	95.0	22189	8.94	ug/L	86
30)	1,2-Dichloropropane	14.31	63.0	16882	9.17	ug/L	86
31)	Dibromomethane	14.54	174.0	15553	9.27	ug/L	95
33)	Bromodichloromethane	14.93	83.0	28672	8.58	ug/L	96
34)	cis-1,3-Dichloropropene	15.83	75.0	25740	8.16	ug/L	94
35)	Toluene	16.40	92.0	35631	9.01	ug/L	92
37)	trans-1,3-Dichloropropene	16.99	75.0	25761	9.27	ug/L	98
38)	Tetrachloroethene	17.45	166.0	19513	8.92	ug/L	97
39)	1,1,2-Trichloroethane	17.33	132.0	1630	10.10	ug/L	99
40)	1,3-Dichloropropane	17.63	76.0	26251	9.05	ug/L	98
42)	Dibromochloromethane	18.06	129.0	21385	9.32	ug/L	99
43)	1,2-Dibromoethane	18.22	107.0	17682	8.99	ug/L	99
44)	*CHLOROBENZENE-D5	19.19	117.0	50504	10.00	ug/L	98
45)	Chlorobenzene	19.24	112.0	39524	8.37	ug/L	94
46)	1,1,1,2-Tetrachloroethane	19.42	131.0	16410	8.36	ug/L	95
47)	Ethylbenzene	19.52	91.0	70415	8.17	ug/L	93
48)	m &/or p-Xylene	19.77	106.0	46635	16.39	ug/L	77

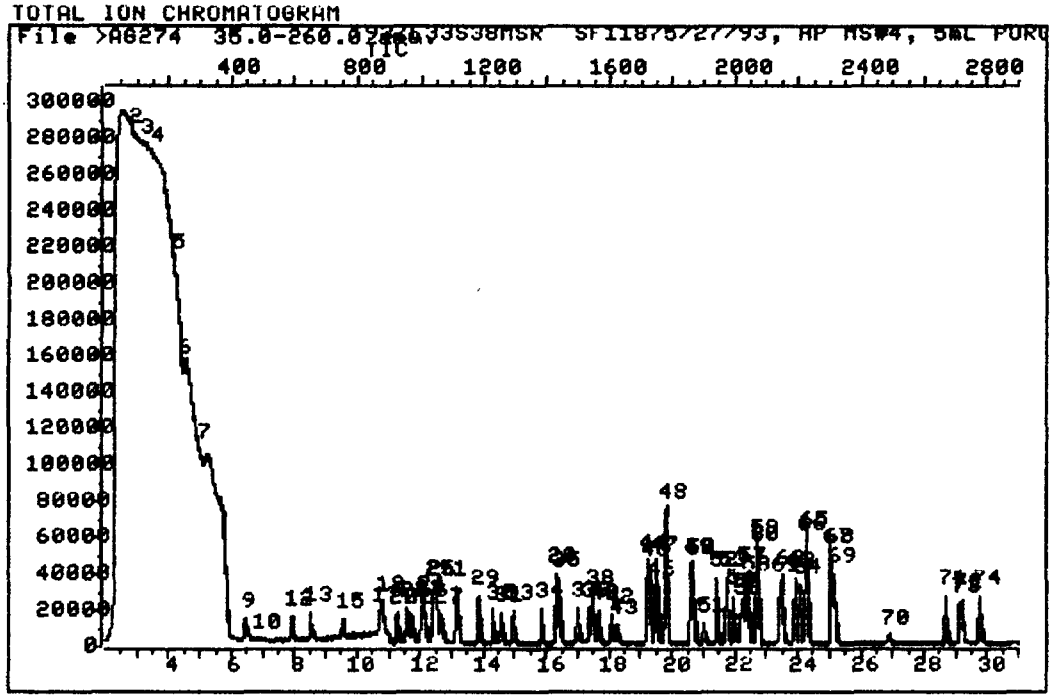
Operator ID: TONY Quant Rev: 7 Quant Time: 930527 14:28
Output File: ^AG274::D5 Injected at: 930527 13:55
Data File: >AG274::D4 Dilution Factor: 1.00000
Name: 93ZE33S38MSR SF1187 Instrument ID: HP MS#4
Misc: 5/27/93, HP MS#4, 5mL PURGE

ID File: IDAG10::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54 Last Qcal Time: 930527 10:31

	Compound	R.T.	Q ion	Area	Conc	Units	q
49)	o-Xylene	20.60	106.0	22520	8.60	ug/L	90
50)	Styrene	20.65	104.0	39669	8.95	ug/L	86
51)	Bromoform	21.00	173.0	12940	8.33	ug/L	93
52)	Isopropylbenzene	21.41	105.0	60386	7.61	ug/L	92
53)	p-BROMOFLUOROBENZENE	21.72	174.0	24231	9.71	ug/L	97
54)	Bromobenzene	21.97	156.0	18830	8.53	ug/L	96
55)	1,2,3-Trichloropropane	22.20	75.0	15931	8.99	ug/L	87
56)	1,1,2,2-Tetrachloroethane	22.18	83.0	15281	8.65	ug/L	92
57)	n-Propylbenzene	22.30	120.0	15727	8.36	ug/L	95
58)	2-Chlorotoluene	22.43	126.0	14986	8.60	ug/L	95
59)	4-Chlorotoluene	22.68	126.0	15700	8.65	ug/L	90
60)	1,3,5-Trimethylbenzene	22.72	105.0	56810	8.16	ug/L	81
61)	tert-Butylbenzene	23.39	119.0	43567	8.28	ug/L	83
62)	1,2,4-Trimethylbenzene	23.51	105.0	57345	8.13	ug/L	80
63)	sec-Butylbenzene	23.88	105.0	68072	8.20	ug/L	93
64)	1,3-Dichlorobenzene	24.05	146.0	32070	8.53	ug/L	91
65)	1,4-Dichlorobenzene	24.27	146.0	33362	8.47	ug/L	93
66)	p-Isopropyltoluene	24.24	119.0	52126	7.65	ug/L	85
67)	1,2-DICHLOROBENZENE-D4	25.02	152.0	25092	9.96	ug/L	97
68)	1,2-Dichlorobenzene	25.06	146.0	31221	8.78	ug/L	94
69)	n-Butylbenzene	25.15	91.0	57538	8.18	ug/L	89
70)	1,2-Dibromo-3-chloropropane	26.84	157.0	3435	9.00	ug/L	98
71)	1,2,4-Trichlorobenzene	28.68	180.0	21261	8.19	ug/L	95
72)	Naphthalene	29.19	128.0	42810	8.32	ug/L	100
73)	Hexachlorobutadiene	29.11	225.0	13358	8.19	ug/L	95
74)	1,2,3-Trichlorobenzene	29.76	180.0	20209	8.43	ug/L	94

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG274::D4 Quant Output File: ^AG274::D5
Name: 93ZE33S38MSR SF1187 Instrument ID: HP MS#4
Misc: 5/27/93, HP MS#4, 5mL PURGE

Id File: IDAG10::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54 Last Qcal Time: 930527 10:31

Operator ID: TONY
Quant Time : 930527 14:28
Injected at: 930527 13:55

QUANT REPORT

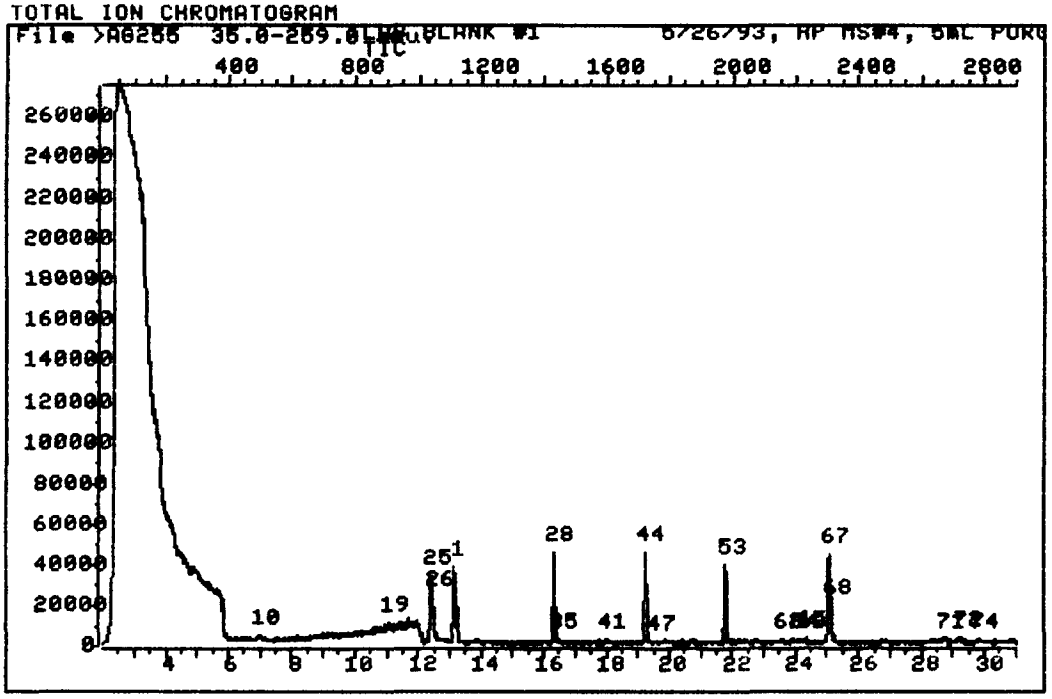
Operator ID: TONY
Quant Rev: 7
Quant Time: 930526 11:52
Output File: ^AG255::D5
Injected at: 930526 10:56
Data File: >AG255::D6
Dilution Factor: 1.00000
Name: LAB BLANK #1
Instrument ID: HP MS#4
Misc: 5/26/93, HP MS#4, 5mL PURGE

ID File: IDAG09::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54
Last Qcal Time: 930526 09:30

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.13	96.0	76838	10.00	ug/L	94
10)	Acetone	6.97	43.0	10864	21.50	ug/L	99
19)	2-Butanone	11.03	43.0	4635	7.40	ug/L	94
25)	BENZENE-D6	12.41	84.0	73671	10.05	ug/L	98
26)	Benzene	12.45	78.0	1855	.235	ug/L	68
28)	*TOLUENE-D8	16.29	98.0	72290	10.00	ug/L	95
35)	Toluene	16.42	92.0	1012	.219	ug/L	99
41)	2-Hexanone	17.97	43.0	2369	1.61	ug/L	86
44)	*CHLOROBENZENE-D5	19.22	117.0	56286	10.00	ug/L	97
47)	Ethylbenzene	19.55	91.0	1711	.178	ug/L	95
53)	p-BROMOFLUOROBENZENE	21.75	174.0	24983	9.60	ug/L	91
62)	1,2,4-Trimethylbenzene	23.56	105.0	2035	.265	ug/L	79
64)	1,3-Dichlorobenzene	24.09	146.0	1324	.318	ug/L	93
65)	1,4-Dichlorobenzene	24.30	146.0	1489	.345	ug/L	89
66)	p-Isopropyltoluene	24.27	119.0	1487	.198	ug/L	92
67)	1,2-DICHLOROBENZENE-D4	25.06	152.0	26334	9.59	ug/L	95
68)	1,2-Dichlorobenzene	25.10	146.0	1219	.313	ug/L	79
71)	1,2,4-Trichlorobenzene	28.71	180.0	1013	.372	ug/L	91
72)	Naphthalene	29.24	128.0	4800	.716	ug/L	100
74)	1,2,3-Trichlorobenzene	29.81	180.0	1638	.626	ug/L	78

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG255::D6 Quant Output File: ^AG255::D5
Name: LAB BLANK #1 Instrument ID: HP MS#4
Misc: 5/26/93, HP MS#4, 5mL PURGE

Id File: IDAG09::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54 Last Qcal Time: 930526 09:30

Operator ID: TONY
Quant Time : 930526 11:52
Injected at: 930526 10:56

QUANT REPORT

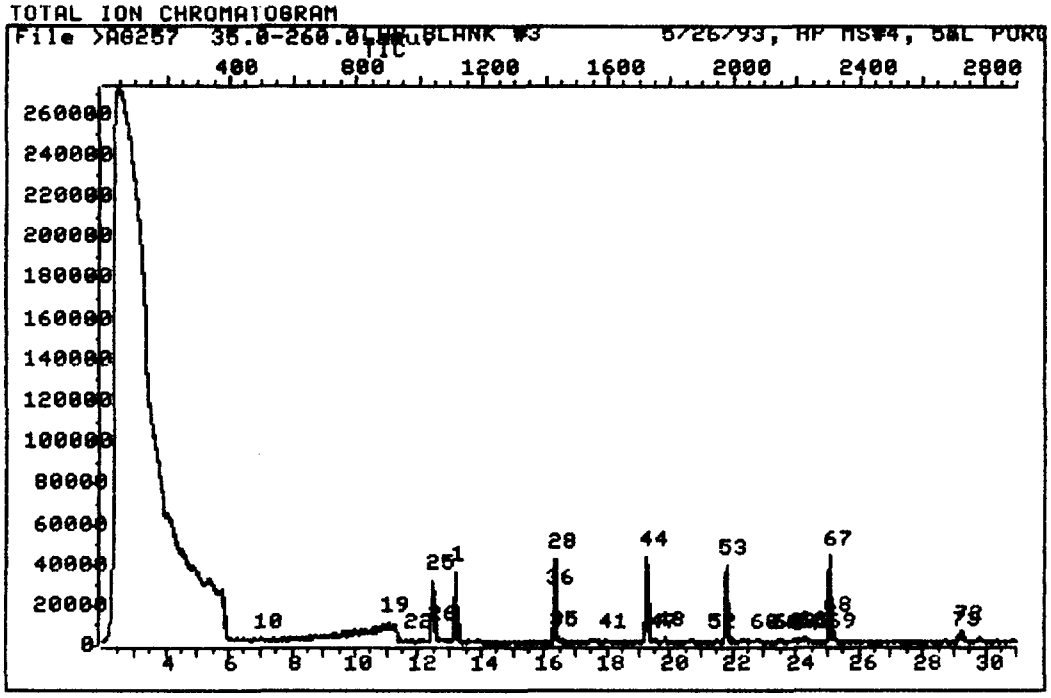
Operator ID: TONY
Quant Rev: 7
Quant Time: 930526 13:11
Output File: ^AG257::D5
Injected at: 930526 12:38
Data File: >AG257::D4
Dilution Factor: 1.00000
Name: LAB BLANK #3
Instrument ID: HP MS#4
Misc: 5/26/93, HP MS#4, 5mL PURGE

ID File: IDAG09::QT
Title: ID FILE FOR 624 VUC METHOD
Last Calibration: 930525 17:54
Last Qcal Time: 930526 09:30

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.15	96.0	71430	10.00	ug/L	97
10)	Acetone	6.99	43.0	7177	15.28	ug/L	98
19)	2-Butanone	11.03	43.0	2420	4.16	ug/L	67
22)	1,1,1-Trichloroethane	11.74	97.0	1405	.555	ug/L	83
25)	BENZENE-D6	12.44	84.0	69225	10.15	ug/L	97
26)	Benzene	12.52	78.0	3251	.443	ug/L	99
28)	*TOLUENE-D8	16.29	98.0	68054	10.00	ug/L	97
35)	Toluene	16.41	92.0	1545	.355	ug/L	95
36)	4-Methyl-2-pentanone	16.26	43.0	2195	.937	ug/L	83
41)	2-Hexanone	17.95	43.0	1853	1.34	ug/L	77
44)	*CHLOROBENZENE-D5	19.22	117.0	53942	10.00	ug/L	96
47)	Ethylbenzene	19.55	91.0	2431	.265	ug/L	89
48)	m &/or p-Xylene	19.81	106.0	1378	.462	ug/L	82
52)	Isopropylbenzene	21.43	105.0	2384	.288	ug/L	90
53)	p-BROMOFLUOROBENZENE	21.75	174.0	25188	10.10	ug/L	96
60)	1,3,5-Trimethylbenzene	22.75	105.0	2253	.305	ug/L	89
61)	tert-Butylbenzene	23.44	119.0	1910	.349	ug/L	66
62)	1,2,4-Trimethylbenzene	23.55	105.0	2367	.322	ug/L	71
63)	sec-Butylbenzene	23.92	105.0	3440	.391	ug/L	81
64)	1,3-Dichlorobenzene	24.08	146.0	1103	.277	ug/L	85
65)	1,4-Dichlorobenzene	24.31	146.0	1106	.267	ug/L	88
66)	p-Isopropyltoluene	24.28	119.0	2369	.330	ug/L	72
67)	1,2-DICHLOROBENZENE-D4	25.05	152.0	26919	10.23	ug/L	94
68)	1,2-Dichlorobenzene	25.11	146.0	1113	.298	ug/L	91
69)	n-Butylbenzene	25.19	91.0	3092	.406	ug/L	79
72)	Naphthalene	29.22	128.0	9590	1.49	ug/L	100
73)	Hexachlorobutadiene	29.15	225.0	1755	1.14	ug/L	95

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG257::D4 Quant Output File: ^AG257::D5
Name: LAB BLANK #3 Instrument ID: HP MS#4
Misc: 5/26/93, HP MS#4, 5mL PURGE

Id File: IDAG09::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54 Last Qcal Time: 930526 09:30

Operator ID: TONY
Quant Time : 930526 13:11
Injected at: 930526 12:38

QUANT REPORT

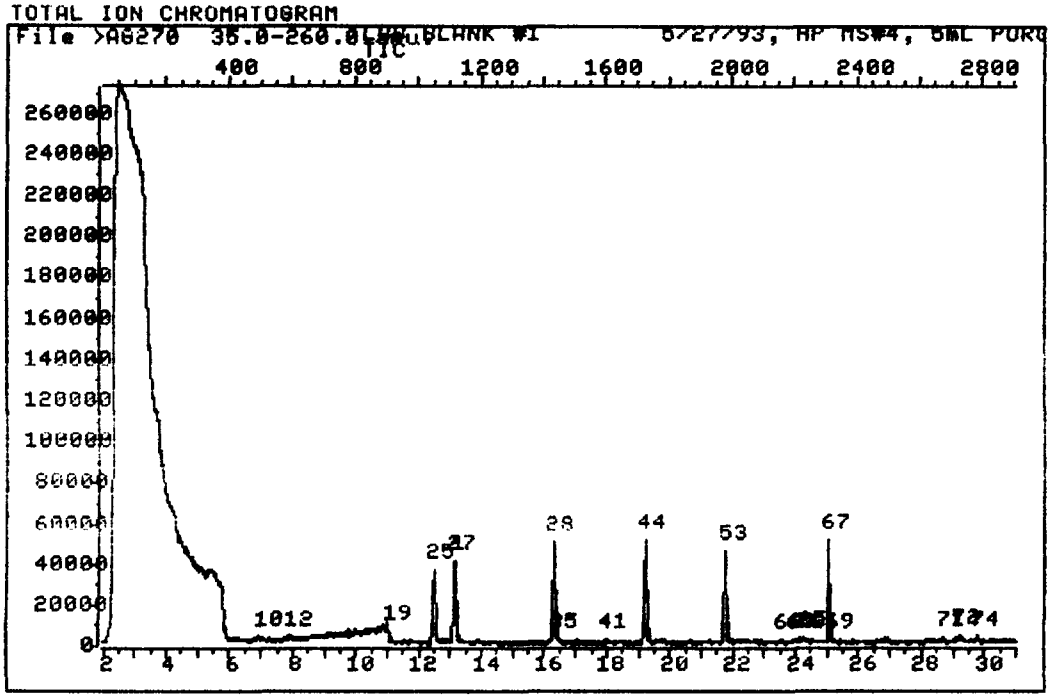
Operator ID: TONY
Quant Rev: 7
Quant Time: 930527 11:44
Output File: ^AG270::D5
Injected at: 930527 11:11
Data File: >AG270::D4
Dilution Factor: 1.00000
Name: LAB BLANK #1
Instrument ID: HP MS#4
Misc: 5/27/93, HP MS#4, 5mL PURGE

ID File: IDAG10::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54
Last Qcal Time: 930527 10:31

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.13	96.0	88025	10.00	ug/L	99
10)	Acetone	6.97	43.0	11670	28.03	ug/L	98
12)	Methylene chloride	7.93	84.0	1174	.402	ug/L	81
19)	2-Butanone	11.04	43.0	5412	9.64	ug/L	66
25)	BENZENE-D6	12.43	84.0	82877	9.89	ug/L	96
27)	1,2-Dichloroethane	13.14	62.0	1901	.363	ug/L	86
28)	*TOLUENE-D8	16.28	98.0	84099	10.00	ug/L	99
35)	Toluene	16.40	92.0	1276	.244	ug/L	84
41)	2-Hexanone	17.95	43.0	2712	2.11	ug/L	88
44)	*CHLOROBENZENE-D5	19.20	117.0	65350	10.00	ug/L	99
53)	p-BROMOFLUOROBENZENE	21.73	174.0	31091	9.62	ug/L	97
62)	1,2,4-Trimethylbenzene	23.54	105.0	2218	.243	ug/L	81
63)	sec-Butylbenzene	23.91	105.0	1073	.0998	ug/L	82
64)	1,3-Dichlorobenzene	24.06	146.0	1369	.281	ug/L	82
65)	1,4-Dichlorobenzene	24.27	146.0	1204	.236	ug/L	93
66)	p-Isopropyltoluene	24.24	119.0	1126	.128	ug/L	78
67)	1,2-DICHLOROBENZENE-D4	25.03	152.0	31834	9.76	ug/L	94
69)	n-Butylbenzene	25.16	91.0	1972	.217	ug/L	82
71)	1,2,4-Trichlorobenzene	28.68	180.0	1952	.581	ug/L	82
72)	Naphthalene	29.21	128.0	6453	.970	ug/L	100
74)	1,2,3-Trichlorobenzene	29.77	180.0	2285	.737	ug/L	83

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG270::D4 Quant Output File: ^AG270::D5
Name: LAB BLANK #1 Instrument ID: HP MS#4
Misc: 5/27/93, HP MS#4, 5mL PURGE

Id File: IDAG10::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54 Last Qcal Time: 930527 10:31

Operator ID: TONY
Quant Time : 930527 11:44
Injected at: 930527 11:11

Calibration Check Report

Title: VOC 74 COMPOUNDS
Calibrated: 930525 17:35

Check Standard Data File: >AG268
Injection Time: 930527 09:51

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
Dichlorodifluoromethane	.46007	.44797	2.63	Average	
Chloromethane	.45601	.42676	6.41	Average	
Vinyl chloride	.40511	.40374	.34	Average	
Bromomethane	.28689	.28427	.91	Average	
Chloroethane	.19548	.18818	3.74	Average	
Trichlorofluoromethane	.49929	.58052	16.27	Average	
Acrolein	.00143	.00133	6.96	Average	(Conc=250.00)
1,1-Dichloroethene	.27224	.27430	.76	Average	
Acetone	.05446	.05246	3.68	Average	(Conc=250.00)
Carbon disulfide	.80425	.81743	1.64	Average	
Methylene chloride	.34353	.33454	2.62	Average	
trans-1,2-Dichloroethene	.29711	.29868	.53	Average	
Acrylonitrile	.10297	.09318	9.51	Average	(Conc=250.00)
1,1-Dichloroethane	.54774	.53294	2.70	Average	
Vinyl acetate	.15496	.12514	19.24	Average	(Conc=100.00)
2,2-Dichloropropane	.38111	.37789	.85	Average	
cis-1,2-Dichloroethene	.28017	.27968	.17	Average	
2-Butanone	.06889	.06228	9.60	Average	(Conc=250.00)
Bromochloromethane	.19548	.17173	12.15	Average	
Chloroform	.70195	.70492	.42	Average	
1,1,1-Trichloroethane	.57522	.58360	1.46	Average	
Carbon tetrachloride	.41858	.43002	2.73	Average	
1,1-Dichloropropene	.44212	.44245	.07	Average	
BENZENE-D6	.95087	.95118	.03	Average	(Conc=10.00)
Benzene	1.05267	1.07101	1.74	Average	
1,2-Dichloroethane	.61219	.59741	2.41	Average	
Trichloroethene	.42216	.39796	5.73	Average	
1,2-Dichloropropane	.29676	.28724	3.21	Average	
Dibromomethane	.25891	.26488	2.31	Average	
2-Chloroethyl vinylether	.01541	.01274	17.30	Average	
Bromodichloromethane	.52587	.52897	.59	Average	
cis-1,3-Dichloropropene	.50986	.50111	1.72	Average	(Conc=25.20)
Toluene	.63725	.63830	.17	Average	
4-Methyl-2-pentanone	.28319	.24650	12.95	Average	(Conc=100.00)
trans-1,3-Dichloropropene	.46311	.44616	3.66	Average	(Conc=22.30)
Tetrachloroethene	.32207	.34719	7.80	Average	
1,1,2-Trichloroethane	.02525	.02499	1.00	Average	
1,3-Dichloropropane	.47592	.46312	2.69	Average	
2-Hexanone	.17787	.14099	20.73	Average	(Conc=100.00)
Dibromochloromethane	.35882	.35991	.30	Average	

RF - Response Factor from daily standard file at 50.00 UG/L

$\overline{RF}$ - Average Response Factor from Initial Calibration

%Diff - % Difference from original average or curve

Calibration Check Report

Title: VOC 74 COMPOUNDS
Calibrated: 930525 17:35

Check Standard Data File: >AG268
Injection Time: 930527 09:51

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
1,2-Dibromoethane	.32671	.31885	2.40	Average	
Chlorobenzene	.93585	.95031	1.55	Average	
1,1,1,2-Tetrachloroethane	.36895	.39042	5.82	Average	
Ethylbenzene	1.66147	1.70823	2.81	Average	
m &/or p-Xylene	.53827	.56439	4.85	Average	(Conc=100.00)
o-Xylene	.49946	.52557	5.23	Average	
Styrene	.85756	.88990	3.77	Average	
Bromoform	.28559	.30343	6.25	Average	
Isopropylbenzene	1.48703	1.59536	7.28	Average	
p-BROMOFLUOROBENZENE	.46247	.50040	8.20	Average	(Conc=10.00)
Bromobenzene	.41906	.44103	5.24	Average	
1,2,3-Trichloropropane	.38160	.35639	6.61	Average	
1,1,2,2-Tetrachloroethane	.31786	.32430	2.03	Average	
n-Propylbenzene	.35972	.37736	4.90	Average	
2-Chlorotoluene	.33115	.34729	4.87	Average	
4-Chlorotoluene	.34722	.36090	3.94	Average	
1,3,5-Trimethylbenzene	1.30557	1.37768	5.52	Average	
tert-Butylbenzene	.98669	1.05473	6.90	Average	
1,2,4-Trimethylbenzene	1.33044	1.41484	6.34	Average	
sec-Butylbenzene	1.51527	1.67150	10.31	Average	
1,3-Dichlorobenzene	.72417	.75978	4.92	Average	
1,4-Dichlorobenzene	.74843	.78951	5.49	Average	
p-Isopropyltoluene	1.26199	1.36608	8.25	Average	
1,2-DICHLOROBENZENE-D4	.47908	.50238	4.86	Average	(Conc=10.00)
1,2-Dichlorobenzene	.67970	.70907	4.32	Average	
n-Butylbenzene	1.31556	1.41184	7.32	Average	
1,2-Dibromo-3-chloropropane	.08000	.07619	4.77	Average	
1,2,4-Trichlorobenzene	.47235	.51559	9.15	Average	
Naphthalene	1.07874	1.04140	3.46	Average	
Hexachlorobutadiene	.27369	.32256	17.86	Average	
1,2,3-Trichlorobenzene	.44500	.48084	8.05	Average	

RF - Response Factor from daily standard file at 50.00 UG/L

$\overline{RF}$ - Average Response Factor from Initial Calibration

%Diff - % Difference from original average or curve

FMGR : QCAL,^AG268,IDAG10,C

Quant Output File: ^AG268::D5
From ID File: IDAG10::QT
Quant Time: 930527 10:24

Quant ID File: IDAG10::QT
Title: ID FILE FOR 624 VOC METHOD

Clearing previous calibration...
Recalibrating.....

1)	FLUOROBENZENE	RT:	13.13	Scan:	1109	(ISTD)
2)	Dichlorodifluoromethane	RT:	2.95	Scan:	95	(New Rf = .44797)
3)	Chloromethane	RT:	3.31	Scan:	131	(New Rf = .42676)
4)	Vinyl chloride	RT:	3.55	Scan:	155	(New Rf = .40374)
5)	Bromomethane	RT:	4.23	Scan:	223	(New Rf = .28427)
6)	Chloroethane	RT:	4.43	Scan:	243	(New Rf = .18818)
7)	Trichlorofluoromethane	RT:	4.98	Scan:	297	(New Rf = .58052)
8)	Acrolein	RT:	6.42	Scan:	441	(New Rf = .00133)
9)	1,1-Dichloroethene	RT:	6.46	Scan:	445	(New Rf = .27430)
10)	Acetone	RT:	6.95	Scan:	494	(New Rf = .05246)
11)	Carbon disulfide	RT:	6.76	Scan:	475	(New Rf = .81743)
12)	Methylene chloride	RT:	7.92	Scan:	591	(New Rf = .33454)
13)	trans-1,2-Dichloroethene	RT:	8.52	Scan:	651	(New Rf = .29868)
14)	Acrylonitrile	RT:	8.67	Scan:	665	(New Rf = .09318)
15)	1,1-Dichloroethane	RT:	9.52	Scan:	750	(New Rf = .53294)
16)	Vinyl acetate	RT:	9.95	Scan:	793	(New Rf = .12514)
17)	2,2-Dichloropropane	RT:	10.72	Scan:	869	(New Rf = .37789)
18)	cis-1,2-Dichloroethene	RT:	10.80	Scan:	877	(New Rf = .27968)
19)	2-Butanone	RT:	11.01	Scan:	898	(New Rf = .06228)
20)	Bromochloromethane	RT:	11.28	Scan:	925	(New Rf = .17173)
21)	Chloroform	RT:	11.56	Scan:	952	(New Rf = .70492)
22)	1,1,1-Trichloroethane	RT:	11.74	Scan:	970	(New Rf = .58360)
23)	Carbon tetrachloride	RT:	12.05	Scan:	1001	(New Rf = .43002)
24)	1,1-Dichloropropene	RT:	12.10	Scan:	1006	(New Rf = .44245)
25)	BENZENE-D6	RT:	12.43	Scan:	1039	(New Rf = .95118)
26)	Benzene	RT:	12.50	Scan:	1046	(New Rf =1.07101)
27)	1,2-Dichloroethane	RT:	12.64	Scan:	1060	(New Rf = .59741)
28)	TOLUENE-D8	RT:	16.27	Scan:	1424	(ISTD)
29)	Trichloroethene	RT:	13.85	Scan:	1182	(New Rf = .39796)
30)	1,2-Dichloropropane	RT:	14.30	Scan:	1227	(New Rf = .28724)
31)	Dibromomethane	RT:	14.54	Scan:	1251	(New Rf = .26488)
32)	2-Chloroethyl vinylether	RT:	15.65	Scan:	1362	(New Rf = .01274)
33)	Bromodichloromethane	RT:	14.94	Scan:	1291	(New Rf = .52897)
34)	cis-1,3-Dichloropropene	RT:	15.82	Scan:	1379	(New Rf = .50111)
35)	Toluene	RT:	16.40	Scan:	1437	(New Rf = .63830)
36)	4-Methyl-2-pentanone	RT:	16.22	Scan:	1419	(New Rf = .24650)
37)	trans-1,3-Dichloropropene	RT:	16.99	Scan:	1496	(New Rf = .44576)
38)	Tetrachloroethene	RT:	17.46	Scan:	1543	(New Rf = .34719)
39)	1,1,2-Trichloroethane	RT:	17.32	Scan:	1529	(New Rf = .02499)
40)	1,3-Dichloropropane	RT:	17.63	Scan:	1560	(New Rf = .46312)
41)	2-Hexanone	RT:	17.92	Scan:	1589	(New Rf = .14099)
42)	Dibromochloromethane	RT:	18.07	Scan:	1604	(New Rf = .35991)
43)	1,2-Dibromoethane	RT:	18.22	Scan:	1619	(New Rf = .31885)
44)	CHLOROBENZENE-D5	RT:	19.19	Scan:	1716	(ISTD)
45)	Chlorobenzene	RT:	19.25	Scan:	1722	(New Rf = .95031)
46)	1,1,1,2-Tetrachloroethane	RT:	18.48	Scan:	1645	(New Rf = .49142)

[illegible]	RT:	19.53	Scan:	1750	(New Rf	=1.70823)
48) m &/or p-Xylene	RT:	19.78	Scan:	1775	(New Rf	= .56439)
49) o-Xylene	RT:	20.60	Scan:	1857	(New Rf	= .52557)
50) Styrene	RT:	20.66	Scan:	1863	(New Rf	= .88990)
51) Bromoform	RT:	21.01	Scan:	1898	(New Rf	= .30343)
52) Isopropylbenzene	RT:	21.42	Scan:	1939	(New Rf	=1.59536)
53) p-BROMOFLUOROBENZENE	RT:	21.73	Scan:	1970	(New Rf	= .50040)
54) Bromobenzene	RT:	21.97	Scan:	1994	(New Rf	= .44103)
55) 1,2,3-Trichloropropane	RT:	22.21	Scan:	2018	(New Rf	= .35639)
56) 1,1,2,2-Tetrachloroethane	RT:	22.20	Scan:	2017	(New Rf	= .32430)
57) n-Propylbenzene	RT:	22.31	Scan:	2028	(New Rf	= .37736)
58) 2-Chlorotoluene	RT:	22.43	Scan:	2040	(New Rf	= .34729)
59) 4-Chlorotoluene	RT:	22.68	Scan:	2065	(New Rf	= .36090)
60) 1,3,5-Trimethylbenzene	RT:	22.72	Scan:	2069	(New Rf	=1.37768)
61) tert-Butylbenzene	RT:	23.40	Scan:	2137	(New Rf	=1.05473)
62) 1,2,4-Trimethylbenzene	RT:	23.52	Scan:	2149	(New Rf	=1.41484)
63) sec-Butylbenzene	RT:	23.88	Scan:	2185	(New Rf	=1.67150)
64) 1,3-Dichlorobenzene	RT:	24.06	Scan:	2203	(New Rf	= .75978)
65) 1,4-Dichlorobenzene	RT:	24.27	Scan:	2224	(New Rf	= .78951)
66) p-Isopropyltoluene	RT:	24.24	Scan:	2221	(New Rf	=1.36608)
67) 1,2-DICHLOROBENZENE-D4	RT:	25.02	Scan:	2299	(New Rf	= .50238)
68) 1,2-Dichlorobenzene	RT:	25.06	Scan:	2303	(New Rf	= .70907)
69) n-Butylbenzene	RT:	25.15	Scan:	2312	(New Rf	=1.41184)
70) 1,2-Dibromo-3-chloropropane	RT:	26.85	Scan:	2482	(New Rf	= .07619)
71) 1,2,4-Trichlorobenzene	RT:	28.68	Scan:	2665	(New Rf	= .51559)
72) Naphthalene	RT:	29.20	Scan:	2717	(New Rf	=1.04140)
73) Hexachlorobutadiene	RT:	29.12	Scan:	2709	(New Rf	= .32256)
74) 1,2,3-Trichlorobenzene	RT:	29.76	Scan:	2773	(New Rf	= .48084)

Done

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BLANK

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

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

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG262

Level: (low/med) LOW Date Received: 05/26/93

% Moisture: not dec. ---- Date Analyzed: 05/26/93

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	3	U
74-87-3	Chloromethane	3	U
75-01-4	Vinyl chloride	3	U
74-83-9	Bromomethane	3	U
75-00-3	Chloroethane	3	U
75-69-4	Trichlorofluoromethane	3	U
107-64-1	Acrolein	10	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	2	U
75-09-2	Methylene chloride	2	U
75-35-4	trans-1,2-Dichloroethene	2	U
107-13-1	Acrylonitrile	10	U
75-34-3	1,1-Dichloroethane	2	U
108-05-4	Vinyl acetate	10	U
594-20-7	2,2-Dichloropropane	2	U
540-59-0	cis-1,2-Dichloroethene	2	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	2	U
67-66-3	Chloroform	2	U
71-55-6	1,1,1-Trichloroethane	2	U
56-23-5	Carbon tetrachloride	2	U
563-58-6	1,1-Dichloropropene	2	U
71-43-2	Benzene	2	U
107-06-2	1,2-Dichloroethane	2	U
79-01-6	Trichloroethene	2	U
78-87-5	1,2-Dichloropropane	2	U
74-95-3	Dibromomethane	2	U
110-75-8	2-Chloroethyl vinylether	10	U
75-27-4	Bromodichloromethane	2	U
10061015	cis-1,3-Dichloropropene	2	U
108-88-3	Toluene	2	U
108-10-1	4-Methyl-2-pentanone	5	U
10061026	trans-1,3-Dichloropropene	2	U

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BLANK

Lab Name: H.O.D. LANDFILL Contract: LOCKHEED/ESA

Lab Code: 5SCRL Case No.: SF1187 SAS No.: ------ SDG No.: ------

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

Sample wt/vol: 5 (g/ml) mL Lab File ID: >AG262

Level: (low/med) LOW Date Received: 05/26/93

% Moisture: not dec. ---- Date Analyzed: 05/26/93

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
142-28-9	1,3-Dichloropropane	2	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	2	U
108-38-3	m &/or p-Xylene	2	U
95-47-6	o-Xylene	2	U
100-42-5	Styrene	2	U
75-25-2	Bromoform	2	U
98-82-8	Isopropylbenzene	2	U
108-86-1	Bromobenzene	2	U
96-18-4	1,2,3-Trichloropropane	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
103-65-1	n-Propylbenzene	2	U
95-49-8	2-Chlorotoluene	2	U
106-43-4	4-Chlorotoluene	2	U
108-67-8	1,3,5-Trimethylbenzene	2	U
98-06-6	tert-Butylbenzene	2	U
95-63-6	1,2,4-Trimethylbenzene	2	U
135-98-8	sec-Butylbenzene	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
99-87-6	p-Isopropyltoluene	2	U
95-50-1	1,2-Dichlorobenzene	2	U
104-51-8	n-Butylbenzene	2	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	2	U
91-20-3	Naphthalene	2	U
87-68-3	Hexachlorobutadiene	2	U
87-61-6	1,2,3-Trichlorobenzene	2	U

QUANT REPORT

Operator ID: TONY
Output File: ^AG262::D5
Data File: >AG262::D4
Name: BLANK
Misc: 5/26/93, 5mL PURGE

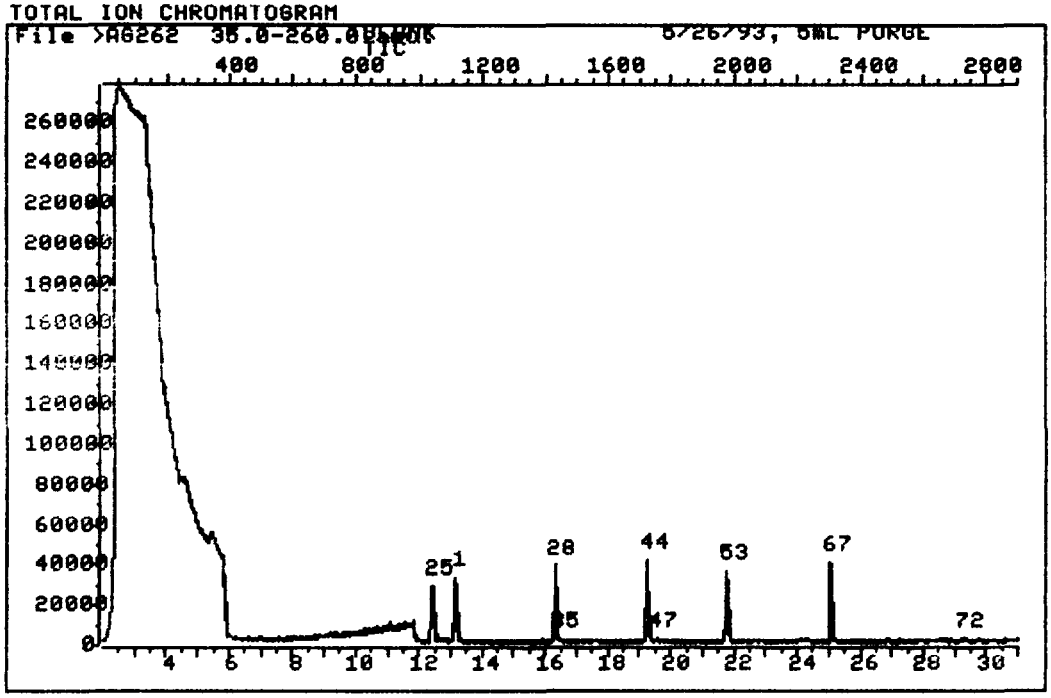
Quant Rev: 7
Quant Time: 930526 17:11
Injected at: 930526 16:36
Dilution Factor: 1.00000
Instrument ID: HP MS#4

ID File: IDAG09::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54
Last Qcal Time: 930526 09:30

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.13	96.0	66898	10.00	ug/L	98
25)	BENZENE-D6	12.41	84.0	66012	10.34	ug/L	99
28)	*TOLUENE-D8	16.28	98.0	63580	10.00	ug/L	97
35)	Toluene	16.42	92.0	1502	.369	ug/L	56
44)	*CHLOROBENZENE-D5	19.22	117.0	51276	10.00	ug/L	97
47)	Ethylbenzene	19.55	91.0	1136	.130	ug/L	96
53)	p-BROMOFLUOROBENZENE	21.75	174.0	22400	9.45	ug/L	97
67)	1,2-DICHLOROBENZENE-D4	25.05	152.0	24072	9.62	ug/L	94
72)	Naphthalene	29.25	128.0	2122	.348	ug/L	100

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG262::D4 Quant Output File: ^AG262::D5
Name: BLANK Instrument ID: HP MS#4
Misc: 5/26/93, 5mL PURGE

Id File: IDAG09::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54 Last Qcal Time: 930526 09:30

Operator ID: TONY
Quant Time : 930526 17:11
Injected at: 930526 16:36

QUANT REPORT

Operator ID: TONY
Output File: ^AG266::D5
Data File: >AG266::D4
Name: 93ZE33S36MSR SF1187
Misc: 5/26/93, 5mL PURGE

Quant Rev: 7
Quant Time: 930526 19:52
Injected at: 930526 19:19
Dilution Factor: 1.00000
Instrument ID: HP MS#4

ID File: IDAG09::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54
Last Qcal Time: 930526 09:30

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.12	96.0	64145	10.00	ug/L	98
2)	Dichlorodifluoromethane	2.87	85.0	5332	1.68	ug/L	96
4)	Vinyl chloride	3.50	62.0	8660	3.01	ug/L	91
5)	Bromomethane	4.19	94.0	8982	4.93	ug/L	94
6)	Chloroethane	4.39	64.0	3634	2.67	ug/L	88
9)	1,1-Dichloroethene	6.46	96.0	21207	11.96	ug/L	95
10)	Acetone	6.92	43.0	2246	5.32	ug/L	89
12)	Methylene chloride	7.92	84.0	25271	11.77	ug/L	96
13)	trans-1,2-Dichloroethene	8.53	96.0	21364	11.07	ug/L	93
15)	1,1-Dichloroethane	9.52	63.0	37299	10.77	ug/L	98
17)	2,2-Dichloropropane	10.72	77.0	30075	13.72	ug/L	94
18)	cis-1,2-Dichloroethene	10.80	96.0	23309	13.70	ug/L	93
20)	Bromochloromethane	11.28	128.0	12778	14.35	ug/L	97
21)	Chloroform	11.56	83.0	53046	16.06	ug/L	98
22)	1,1,1-Trichloroethane	11.73	97.0	45305	19.93	ug/L	98
23)	Carbon tetrachloride	12.03	117.0	32965	21.19	ug/L	96
24)	1,1-Dichloropropene	12.08	75.0	30100	14.12	ug/L	96
25)	BENZENE-D6	12.42	84.0	62356	10.19	ug/L	95
26)	Benzene	12.49	78.0	79387	12.03	ug/L	97
27)	1,2-Dichloroethane	12.63	62.0	45807	11.88	ug/L	96
28)	*TOLUENE-D8	16.28	98.0	62167	10.00	ug/L	95
29)	Trichloroethene	13.84	95.0	28888	11.24	ug/L	83
30)	1,2-Dichloropropane	14.29	63.0	21609	11.33	ug/L	93
31)	Dibromomethane	14.54	174.0	19670	11.67	ug/L	96
33)	Bromodichloromethane	14.94	83.0	37082	11.20	ug/L	97
34)	cis-1,3-Dichloropropene	15.83	75.0	34182	10.38	ug/L	94
35)	Toluene	16.41	92.0	47226	11.88	ug/L	93
37)	trans-1,3-Dichloropropene	16.99	75.0	34798	11.37	ug/L	96
38)	Tetrachloroethene	17.46	166.0	24259	11.66	ug/L	95
39)	1,1,2-Trichloroethane	17.33	132.0	1920	11.10	ug/L	86
40)	1,3-Dichloropropane	17.63	76.0	34301	10.97	ug/L	99
42)	Dibromochloromethane	18.08	129.0	28104	12.04	ug/L	96
43)	1,2-Dibromoethane	18.23	107.0	24437	11.21	ug/L	99
44)	*CHLOROBENZENE-D5	19.20	117.0	49735	10.00	ug/L	98
45)	Chlorobenzene	19.26	112.0	52484	11.33	ug/L	91
46)	1,1,1,2-Tetrachloroethane	19.48	131.0	21676	11.68	ug/L	93
47)	Ethylbenzene	19.54	91.0	93303	11.01	ug/L	92
48)	m &/or p-Xylene	19.79	106.0	61514	22.38	ug/L	77
49)	o-Xylene	20.61	106.0	29182	11.57	ug/L	89
50)	Styrene	20.67	104.0	53169	12.26	ug/L	88

Operator ID: TONY
Output File: ^AG266::D5
Data File: >AG266::D4
Name: 93ZE33S36MSR SF1187
Misc: 5/26/93, 5mL PURGE

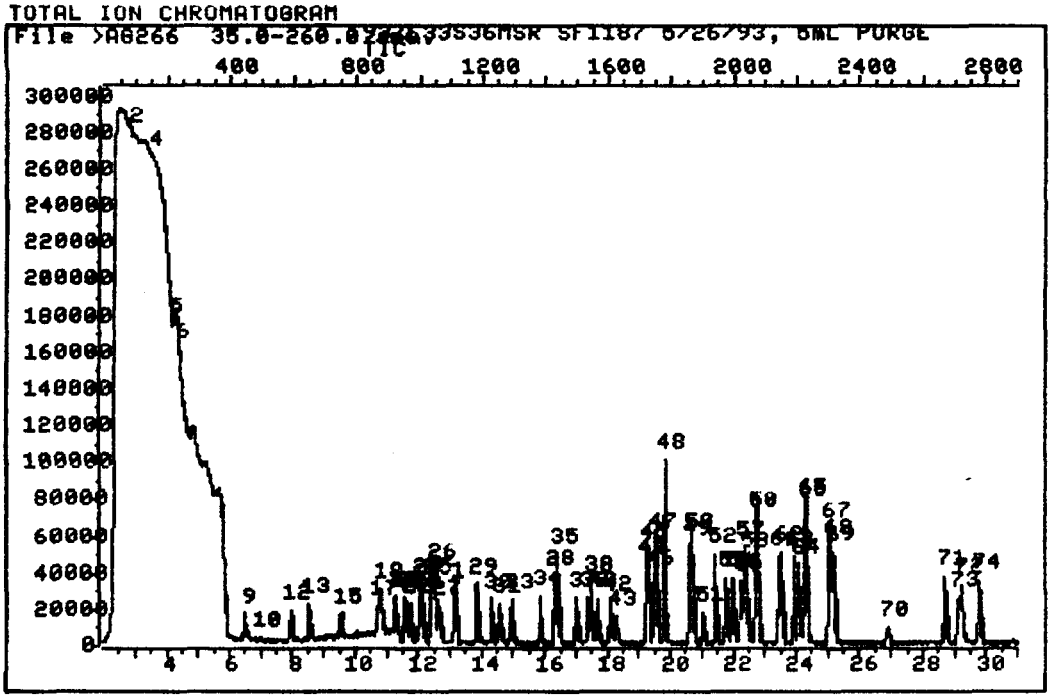
Quant Rev: 7
Quant Time: 930526 19:52
Injected at: 930526 19:19
Dilution Factor: 1.00000
Instrument ID: HP MS#4

ID File: IDAG09::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54
Last Qcal Time: 930526 09:30

	Compound	R.T.	Q ion	Area	Conc	Units	q
51)	Bromoform	21.03	173.0	17159	10.88	ug/L	99
52)	Isopropylbenzene	21.43	105.0	80563	10.56	ug/L	90
53)	p-BROMOFLUOROBENZENE	21.74	174.0	23086	10.04	ug/L	98
54)	Bromobenzene	21.99	156.0	24092	11.32	ug/L	97
55)	1,2,3-Trichloropropane	22.22	75.0	22419	10.61	ug/L	90
56)	1,1,2,2-Tetrachloroethane	22.21	83.0	21519	11.77	ug/L	98
57)	n-Propylbenzene	22.32	120.0	19733	10.68	ug/L	98
58)	2-Chlorotoluene	22.45	126.0	18949	11.21	ug/L	91
59)	4-Chlorotoluene	22.70	126.0	20938	12.02	ug/L	90
60)	1,3,5-Trimethylbenzene	22.74	105.0	76821	11.29	ug/L	78
61)	tert-Butylbenzene	23.42	119.0	56297	11.15	ug/L	77
62)	1,2,4-Trimethylbenzene	23.53	105.0	76862	11.33	ug/L	81
63)	sec-Butylbenzene	23.90	105.0	88769	10.96	ug/L	91
64)	1,3-Dichlorobenzene	24.07	146.0	42108	11.45	ug/L	92
65)	1,4-Dichlorobenzene	24.29	146.0	41385	10.85	ug/L	94
66)	p-Isopropyltoluene	24.26	119.0	69240	10.45	ug/L	88
67)	1,2-DICHLOROBENZENE-D4	25.04	152.0	25406	10.47	ug/L	97
68)	1,2-Dichlorobenzene	25.08	146.0	40431	11.74	ug/L	92
69)	n-Butylbenzene	25.16	91.0	74055	10.54	ug/L	87
70)	1,2-Dibromo-3-chloropropane	26.86	157.0	4886	10.20	ug/L	87
71)	1,2,4-Trichlorobenzene	28.69	180.0	26797	11.13	ug/L	89
72)	Naphthalene	29.21	128.0	59344	10.02	ug/L	100
73)	Hexachlorobutadiene	29.13	225.0	15273	10.75	ug/L	97
74)	1,2,3-Trichlorobenzene	29.77	180.0	26180	11.33	ug/L	93

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG266::D4
Name: 93ZE33S36MSR SF1187
Misc: 5/26/93, 5mL PURGE

Quant Output File: ^AG266::D5
Instrument ID: HP MS#4

Id File: IDAG09::QT
Title: ID FILE FOR 624 VOC METHOD
Last Calibration: 930525 17:54

Last Qcal Time: 930526 09:30

Operator ID: TONY
Quant Time : 930526 19:52
Injected at: 930526 19:19