Pacific Analytical, Inc.

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Pacific Analytical 05/20/92

P A Reference: 170

Hadley Industries

Samples:

INFLUENT, BETWEEN, EFFLUENT, PS #3, PS #4

Comments:

The above samples were analyzed by the CLP Volatiles method. Recoveries of the system monitoring compounds, internal standard areas and retention times were all within the specified limits for this type of analysis.

The INFLUENT sample contained methylene chloride, acetone, trichloroethene and tetrachloroethene. Methylene chloride and acetone were the only compounds present in the samples BETWEEN and EFFLUENT at concentrations below or near their reported quantitation limit. PS #3 and PS #4 contained acetone, trichloroethene, and tetrachloroethene.

Acetone was present in the shift blank at a concentration below the reported quantitation limit.

No tentatively identified compounds were present in the samples or blank.

Elana Colby
Senior Chemist

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: PACIFIC ANALYTICAL Contract:

Lab Code: PACIF Case No.: SAS No.: SDG No.:

	EPA SAMPLE NO.	SMC1 (TOL)#	SMC2 (BFB)#	SMC3 (DCE)#	OTHER	TOT OUT
01	VBLK32	97	99	99		0
02	INFLUENT	96	97	94		0
03	BETWEEN	96	94	92		0
04	EFFLUENT	102	95	89		0
05	PS#3	97	96	92		0
06	~~PS#3~~ PS#4	97	95	89		0
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MEC 5/20/92

	QC LIMITS
SMC1 (TOL) = Toluene-d8	(88-110)
SMC2 (BFB) = Bromofluorobenzene	(86-115)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM II VOA-1

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK32

Lab Name: PACIFIC ANALYTICAL Contract:

Lab Code: PACIF Case No.: SAS No.: SDG No.:

Lab File ID: RR1091 Lab Sample ID: 00000

Date Analyzed: 05/14/92 Time Analyzed: 1951

GC Column: 1%SP1000 ID: 2 (mm) Heated Purge: (Y/N) N

Instrument ID: VG#2

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	INFLUENT	17001	RR1101	2042
02	BETWEEN	17002	RR1111	2133
03	EFFLUENT	17003	RR1121	2225
04	PS#3	17004	RR1131	2316
05	~~PS#3~~ PS#4	17005	RR1141	0007
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MEC 5/20/92

COMMENTS:

FORM IV VOA

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: PACIFIC ANALYTICAL Contract:

Lab Code: PACIF Case No.: SAS No.: SDG No.:

Lab File ID: RR1011 BFB Injection Date: 05/14/92

Instrument ID: VG#2 BFB Injection Time: 1143

GC Column: 1%SP1000 ID: 2 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.1
75	30.0 - 66.0% of mass 95	41.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.1
173	Less than 2.0% of mass 174	0.7 (0.9)1
174	50.0 - 120.0% of mass 95	78.4
175	4.0 - 9.0% of mass 174	5.2 (6.7)1
176	93.0 - 101.0% of mass 174	73.3 (93.6)1
177	5.0 - 9.0% of mass 176	4.7 (6.4)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATA ANALYZED	TIME ANALYZED
01	VSTD200	00200	RR1021	05/14/92	1239
02	VSTD100	00100	RR1031	05/14/92	1330
03	VSTD020	00020	RR1041	05/14/92	1422
04	VSTD010	00010	RR1051	05/14/92	1513
05	VSTD050	00050	RR1061	05/14/92	1604
06					
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FORM V VOA

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: PACIFIC ANALYTICAL Contract:

Lab Code: PACIF Case No.: SAS No.: SDG No.:

Lab File ID: RR1071 BFB Injection Date: 05/14/92

Instrument ID: VG#2 BFB Injection Time: 1656

GC Column: 1%SP1000 ID: 2 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	21.8
75	30.0 - 66.0% of mass 95	47.5
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	0.8 (0.9)1
174	50.0 - 120.0% of mass 95	87.5
175	4.0 - 9.0% of mass 174	5.6 (6.4)1
176	93.0 - 101.0% of mass 174	83.7 (95.6)1
177	5.0 - 9.0% of mass 176	5.9 (7.1)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATA ANALYZED	TIME ANALYZED
01	VSTD0050	00050	RR1081	05/14/92	1859
02	VBLK32	00000	RR1091	05/14/92	1951
03	INFLUENT	17001	RR1101	05/14/92	2042
04	BETWEEN	17002	RR1111	05/14/92	2133
05	EFFLUENT	17003	RR1121	05/14/92	2225
06	PS#3	17004	RR1131	05/14/92	2316
07	~~PS#3~~ PS#4	17005	RR1141	05/15/92	0007
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MEC 5/20/92

FORM V VOA

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: PACIFIC ANALYTICAL Contract:

Lab Code: PACIF Case No.: SAS No.: SDG No.:

Lab File ID (Standard): RR1081 Date Analyzed: 05/14/92

Instrument ID: V9#2 Time Analyzed: 1859

GC Column: 1%SP1000 ID: 2 (mm) Heated Purge: (Y/N) N

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	13072000	11.57	71900001	22.40	67900010	28.00
	UPPER LIMIT	26144000	12.07	143800003	22.90	135800019	28.50
	LOWER LIMIT	6536000	11.07	35950001	21.90	33950005	27.50
	EPA SAMPLE NO.						
01	VBLK32	13047000	11.57	76675002	22.42	68706842	28.00
02	INFLUENT	13693000	11.58	75121002	22.38	69887002	28.07
03	BETWEEN	14110000	11.60	80498001	22.38	73302562	28.08
04	EFFLUENT	13564000	11.58	80284001	22.42	71002881	28.02
05	PS#3	13348000	11.58	74702002	22.37	68585490	28.02
06	~~PS#3~~ PS#4	14041000	11.60	77174002	22.38	72452946	28.03
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IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

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

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

INFLUENT

Lab Name: PACIFIC ANALYTICAL Contract:

Lab Code: PACIF Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 17001

Sample wt/vol: 5.0(g/mL) ML Lab File ID: RR1101

Level: (low/med) LOW Date Received: 05/07/92

% Moisture: not dec. 0 Date Analyzed: 05/14/92

GC Column: 1%SP1000 ID: 2 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	J
67-64-1	Acetone	21	
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-35-3	1,1-Dichloroethane	10	U
156-60-5	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	55	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-dichloropropene	10	U
75-25-2	Bromoform	10	U
591-78-6	4-Methyl-2-Pentanone	10	U
108-10-1	2-Hexanone	10	U
127-18-4	Tetrachloroethene	37	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

INFLUENT

Lab Name: PACIFIC ANALYTICAL Contract:

Lab Code: PACIF Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 17001

Sample wt/vol: 5.0(g/mL) ML Lab File ID: RR1101

Level: (low/med) LOW Date Received: 05/07/92

% Moisture: not dec. 0 Date Analyzed: 05/14/92

GC Column: 1%SP1000 ID: 2(mm) Dilution Factor: 1.0

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

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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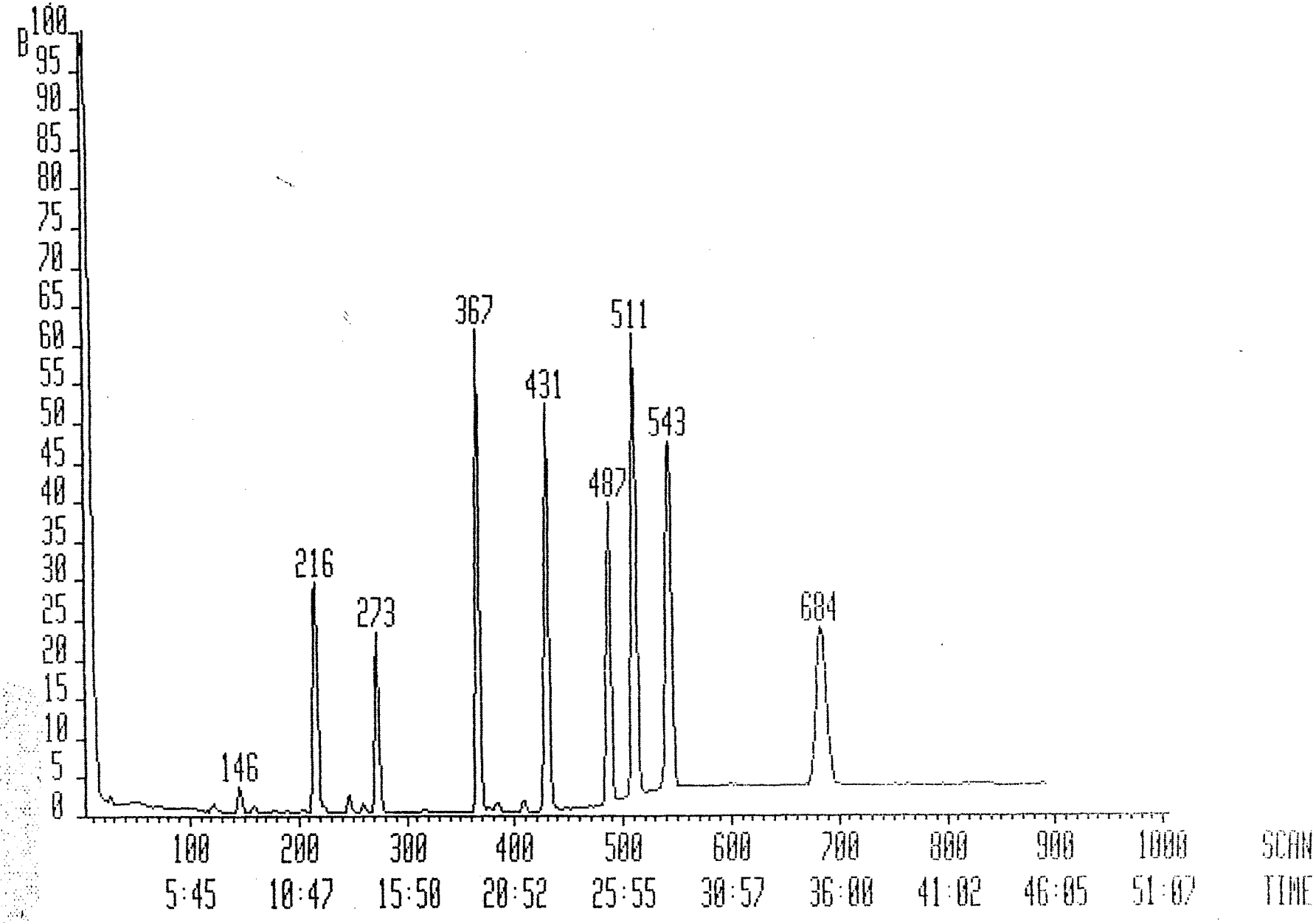
RR1101 #5-890 14-MAY-92 20:42 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 83548000

Text:INFLUENT_17001



28	---------- No Trace Found ----------						367		1	
~~29~~	~~26~~	2	46	0	4000	bb	442	442	173	Bromoform
30	90	73	98	1	69887000	bb	543	542	117	Chlorobenzene-d5
31	84	60	99	1	37963110	bv	685	684	95	4-Bromofluorobenzene
32	83	61	95	0	81993580	vv	511	511	98	Toluene-d8
~~33~~	~~50~~	16	91	1	61385	v?	449	448	43	4-Methyl-2-Pentanone
	51	15	89	6	11968	??	454			
	49	14	89	8	6323	??	456			
~~34~~	~~56~~	16	87	0	69909	??*	481	481	43	2-Hexanone
	53	17	86	-3	0	??	478			
	51	17	86	-6	3500	??	475			
35	98	84	99	0	20005000	bb	487	487	164	Tetrachloroethene
~~36~~	~~44~~	0	86	-3	403968	vb*	488	491	83	1,1,2,2-Tetrachloroeth
	44	3	88	8	0	??	499			
	43	3	89	-9	0	??	482			
~~37~~	~~58~~	14	96	1	821357	vb	516	515	91	Toluene
	40	8	79	10	1889	??	525			
	40	7	81	-11	5000	??	504			
~~38~~	~~32~~	1	74	-15	2000	??	531	546	112	Chlorobenzene
	30	1	63	10	1103	??	556			
	29	1	63	-12	3429	??	534			
~~39~~	~~33~~	7	56	-1	19000	?b	603	604	106	Ethylbenzene
	29	6	51	-5	4000	??	599			
	28	6	52	-7	4000	??	597			
~~40~~	~~37~~	4	65	0	143000	vv	727	727	104	Styrene
	34	4	63	3	59000	?v	730			
	32	3	61	-6	15000	??	721			
~~41~~	~~33~~	8	55	-1	3444	??	734	735	106	m-Xylene
	32	8	55	-3	22000	??	732			
	32	8	54	3	17000	??	738			
~~42~~	~~34~~	9	55	0	23532	??	768	768	106	o-/p-Xylene
	33	9	56	4	26936	??	772			
	32	8	55	-3	28617	b?	765			
43	---------- No Trace Found ----------						0		-	

RR1101
INFLUENT

Interim Report Sample Analysis 15-MAY-92 09:49:37

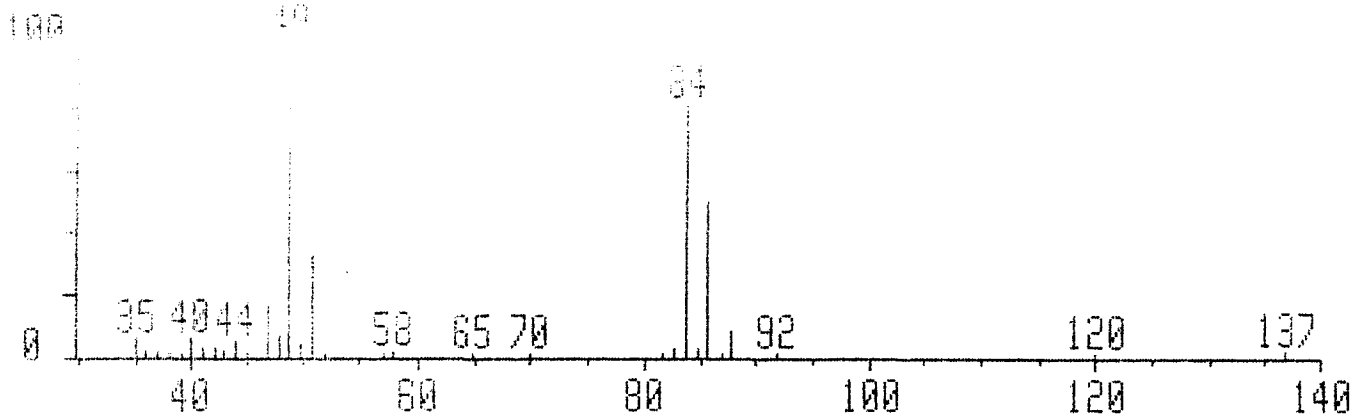
Datafile: RR1101 14-MAY-92 20:42
Database: VOA91L
Library: VOA91

Instrument: VG#2
Account:
Text: INFLUENT_17001

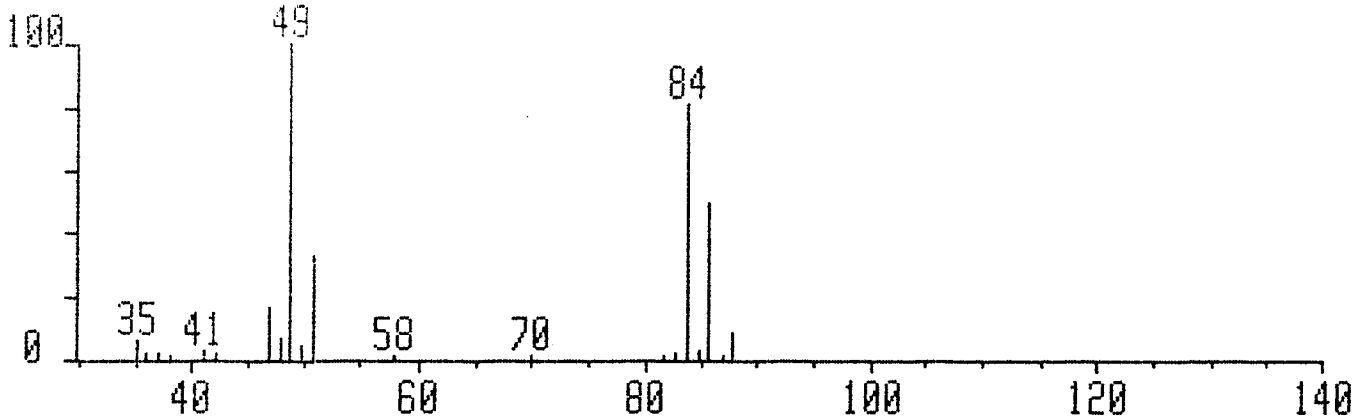
QRE
5/15/92
DM.41.

No.	Rank	Spectrum Match	Spectrum Fit	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	Quan m/z	Compound Name
1	100	92	99	1	13693000	bv	216	215	128	Bromochloromethane
2	99	87	99	0	22899000	bv	273	273	65	1,2-Dichloroethane-d4
3	53	2	99	-1	98000	bb*	24	25	50	Chloromethane
	43	0	90	9	8200	??	34			
	41	0	93	14	0	??	39			
4	52	3	94	0	73813	vv	54	54	94	Bromomethane
	39	2	80	8	5938	??	62			
	35	2	77	14	10375	??	68			
5	52	1	97	0	21000	vv	73	73	62	Vinyl Chloride
	51	0	97	-2	13000	??	71			
	47	1	94	-6	28000	??	67			
6	39	2	80	8	52000	?b	106	98	64	Chloroethane
	36	1	68	2	21000	b?	100			
	34	2	82	-18	17000	bb	80			
7	97	84	98	0	2510000	bb*	146	146	84	Methylene Chloride
8	84	63	99	-2	1387065	bv	159	161	43	Acetone
	56	14	99	6	39032	??	167			
9	85	62	99	1	894000	bv	178	177	76	Carbon Disulfide
10	82	55	99	0	212000	bb	204	204	96	1,1-Dichloroethene
11	68	28	99	0	223000	bb	232	232	63	1,1-Dichloroethane
	41	0	99	-17	149000	bv	215			
12	96	81	99	0	1752000	bb	247	247	96	1,2-Dichloroethene (to
13	94	77	99	0	1394000	bb	260	260	83	Chloroform
14	36	25	44	1	189000	bb	276	275	62	1,2-Dichloroethane
15	53	2	99	-2	240595	vv	270	272	43	2-Butanone
	53	11	97	-7	28514	??	265			
	45	1	98	-12	8973	??	260			
16	84	60	99	-1	75121000	bv	430	431	114	1,4-Difluorobenzene
17	70	31	99	0	88000	bb	303	303	97	1,1,1-Trichloroethane
18	56	18	89	-1	42000	bb	311	312	117	Carbon Tetrachloride
	34	3	68	-9	8000	bb	303			
19	---------- No Trace Found ----------							0	1	
20	38	3	68	0	8000	bb	323	323	83	Bromodichloromethane
	18	1	34	-2	3000	bb	321			
21	27	6	45	0	12000	bb	351	351	63	1,2-Dichloropropane
	20	1	47	16	92000	bb	367			
	18	2	32	2	3000	bb	353			
22	37	5	66	1	25000	bb	357	356	75	cis-1,3-Dichloropropen
	25	2	54	-13	3500	?b	343			
	24	2	51	-11	6000	bb	345			
23	96	81	99	0	38080000	bb	367	367	130	Trichloroethene
24	45	3	82	0	21000	bb	383	383	129	Dibromochloromethane
	38	2	70	2	5000	?b	385			
	23	1	45	-4	6000	bb	379			
25	75	46	94	0	472000	vb	385	385	97	1,1,2-Trichloroethane
26	82	58	96	0	863000	bb	377	377	78	Benzene
27	42	2	77	1	32000	bb	384	383	75	trans-1,3-dichloroprop
	39	2	72	-1	32000	bb	382			
	30	6	54	-5	20000	bb	378			

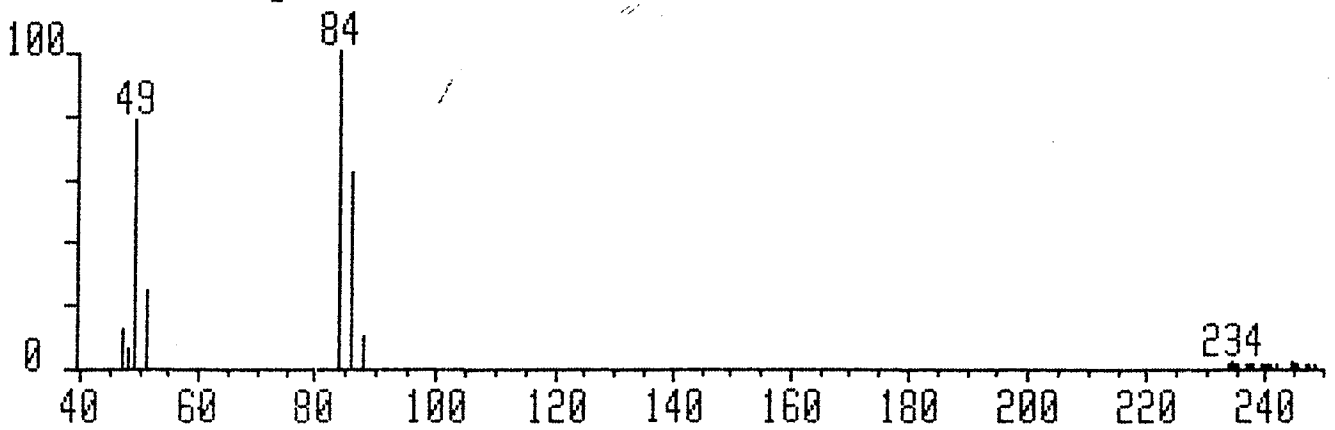
RR1101S#146 x1 Bgd=1 14-MAY-92 20:42+0:08:04 EI+
I=136mv TIC=3082000 Acnt:
Text: INFLUENT_17001_MethyLene ChLoride



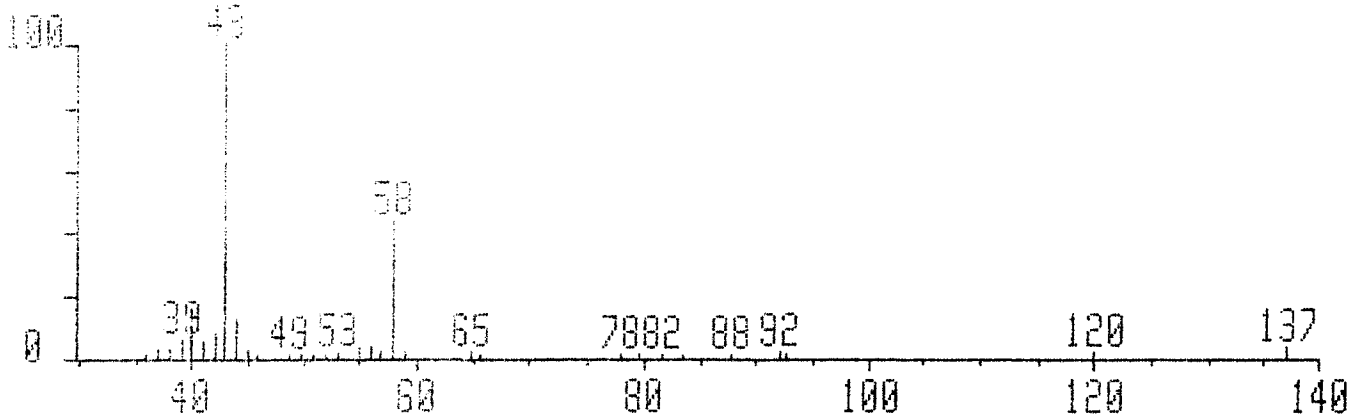
RR1101S#146 x1 Bgd=140 14-MAY-92 20:42+0:08:04 EI+
I=136mv TIC=2865000 SU Acnt:
Text: INFLUENT_17001_MethyLene ChLoride



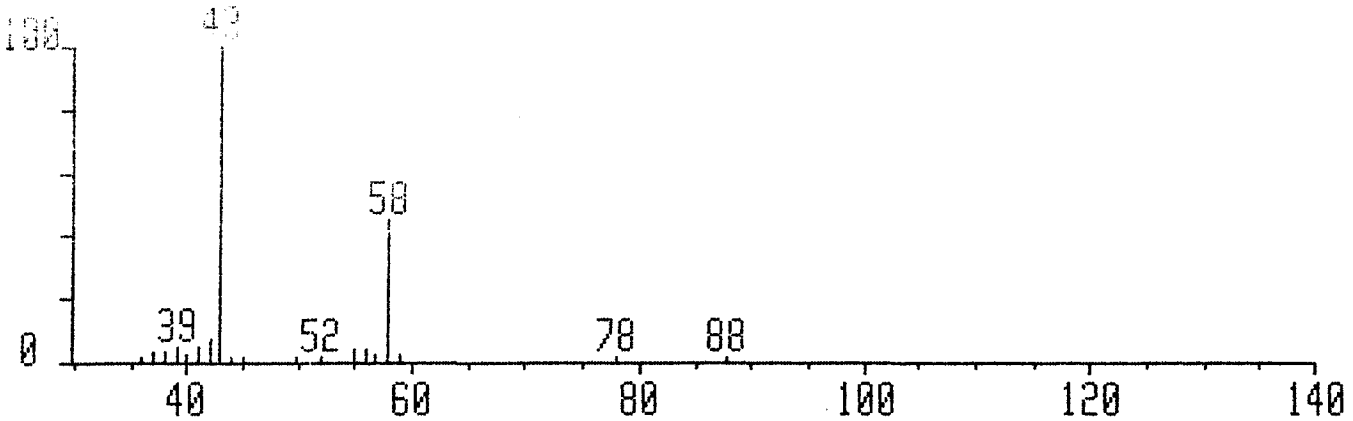
V8240#7 x1 Bgd=1 1-DEC-89 13:03+0:00:23 EI+
I=234mv TIC=10910000 Acnt:VG#2
Text: MethyLene ChLoride



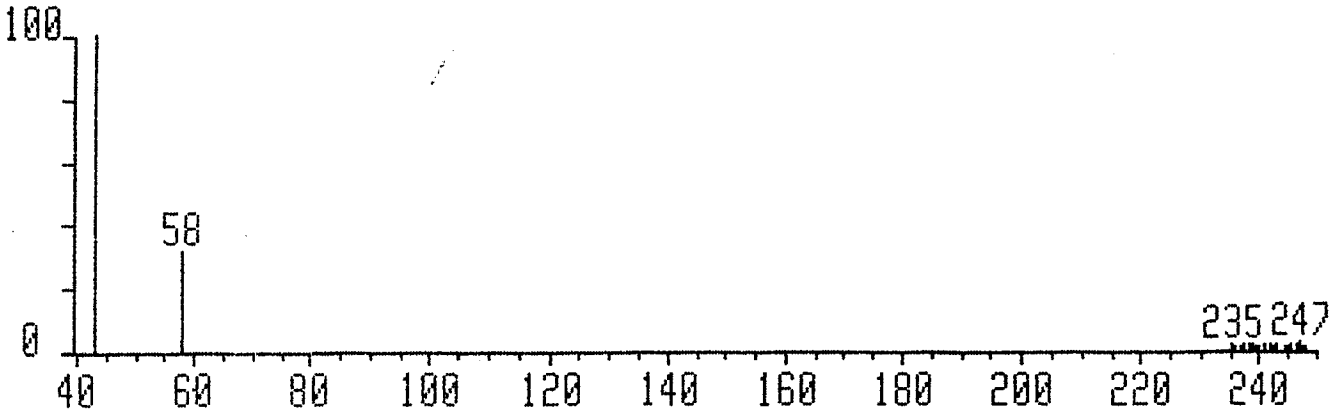
RR1101#159 x1 Bgd=1 14-MAY-92 20:42+0:08:43 EI+
I=61mv TIC=913000 Acnt:
Text INFLUENT_17001_Acetone



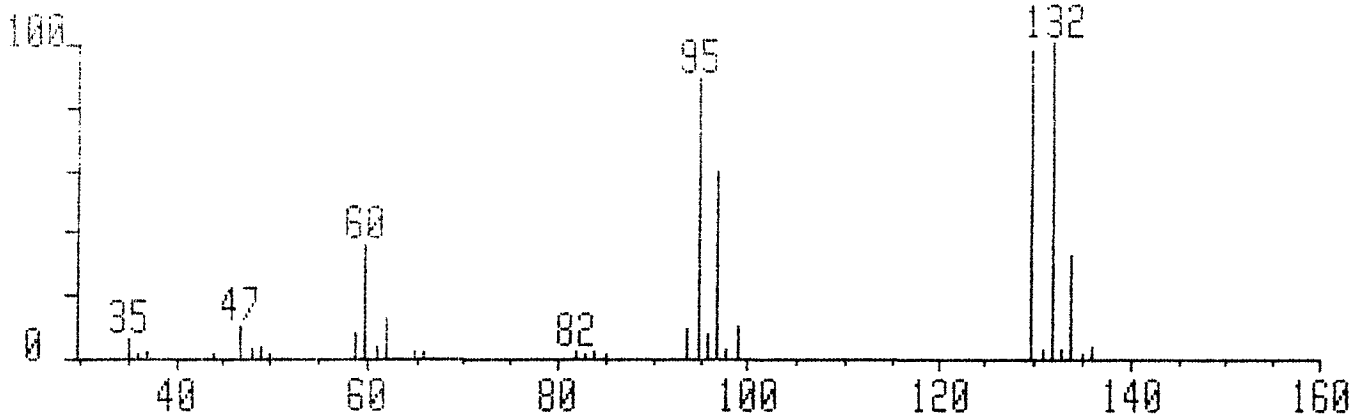
RR1101S#159 x1 Bgd=154 14-MAY-92 20:42+0:08:43 EI+
I=60mv TIC=714000 SU Acnt:
Text:INFLUENT_17001_Acetone



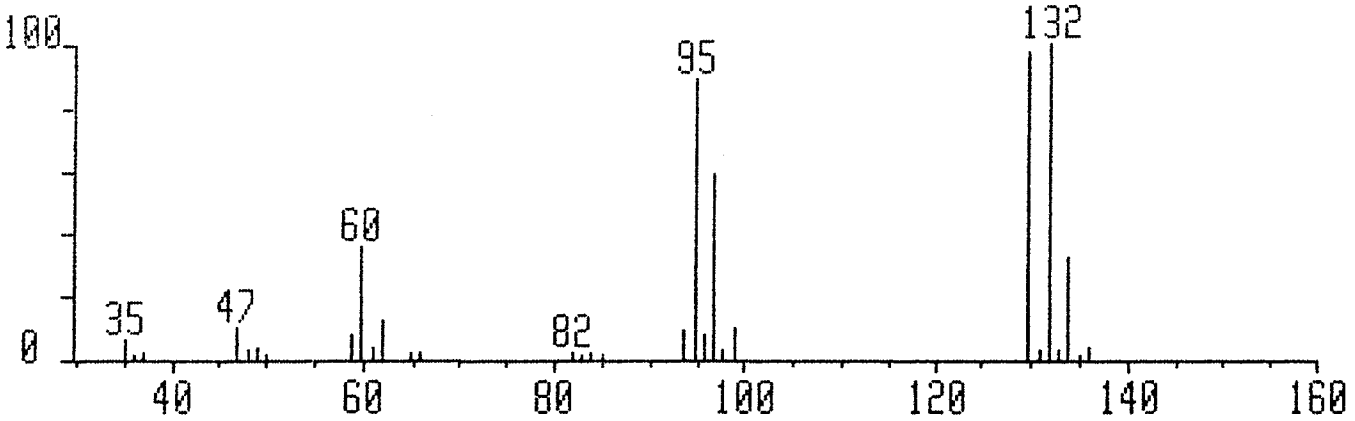
V8240#8 x1 Bgd=1 1-DEC-89 13:03+0:00:26 EI+
I=226mv TIC=11124000 Acnt:VG#2
Text:Acetone



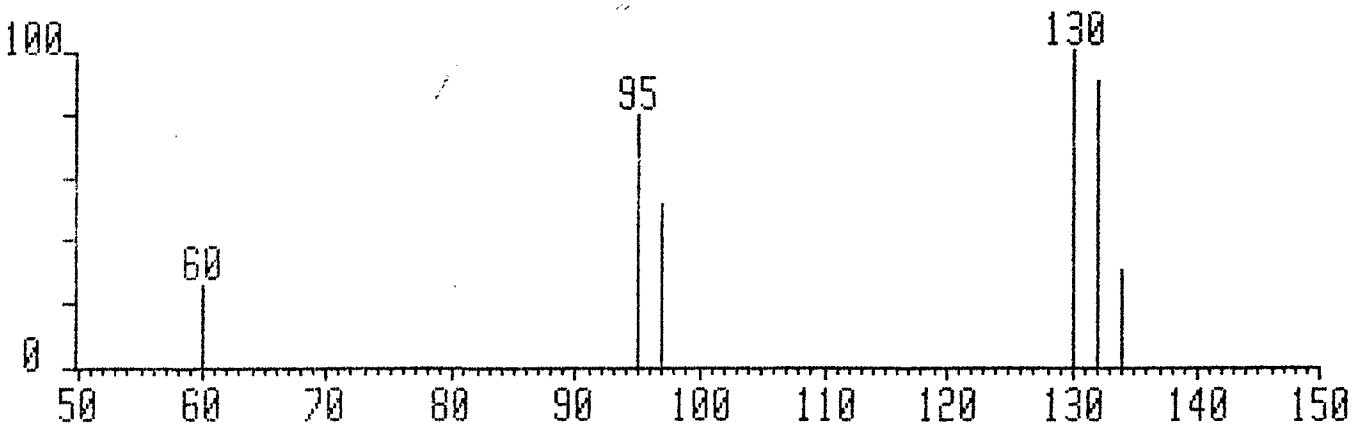
RR1101#367 x1 Bgd=359 14-MAY-92 20:42+0:19:12 EI+
I=1.6v TIC=51585000 Acnt:
Text:INFLUENT_17001_Trichloroethene



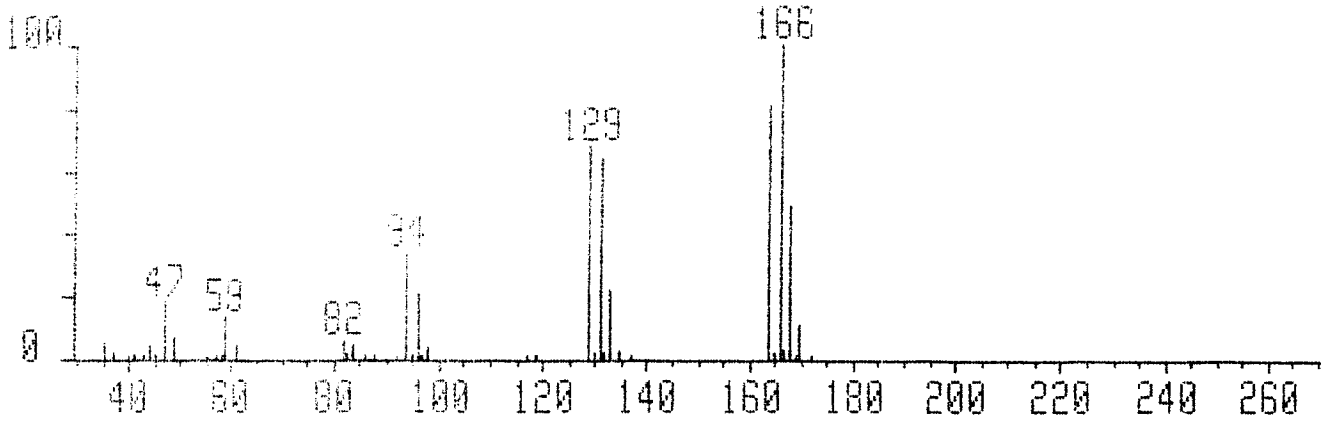
RR1101S#367 x1 Bgd=360 14-MAY-92 20:42+0:19:12 EI+
I=1.6v TIC=51549000 SU Acnt:
Text:INFLUENT_17001_Trichloroethene



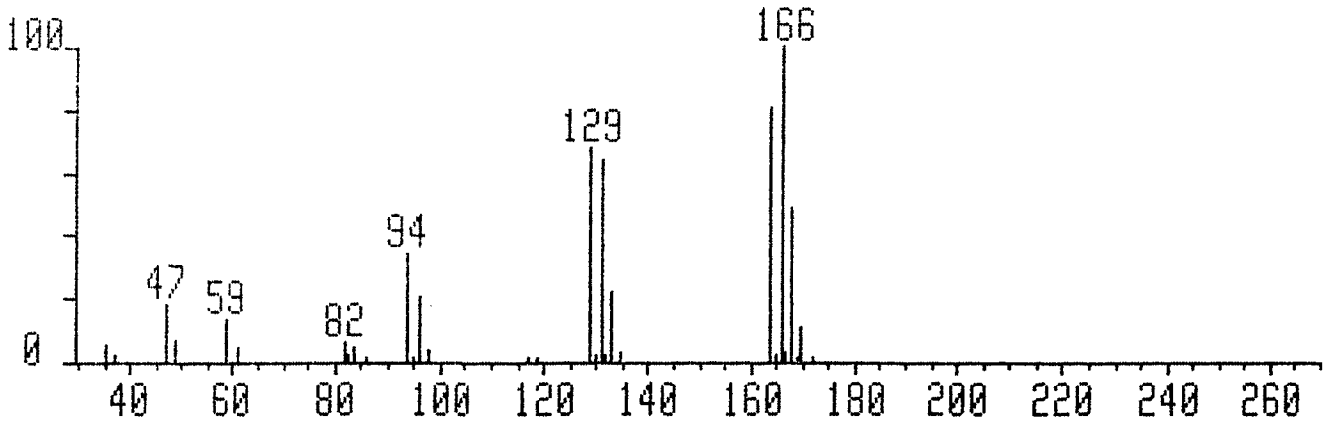
V8240#23 x1 Bgd=1 1-DEC-89 13:03+0:01:11 EI+
I=251mv TIC=11543000 Acnt:VG#2
Text:Trichloroethene



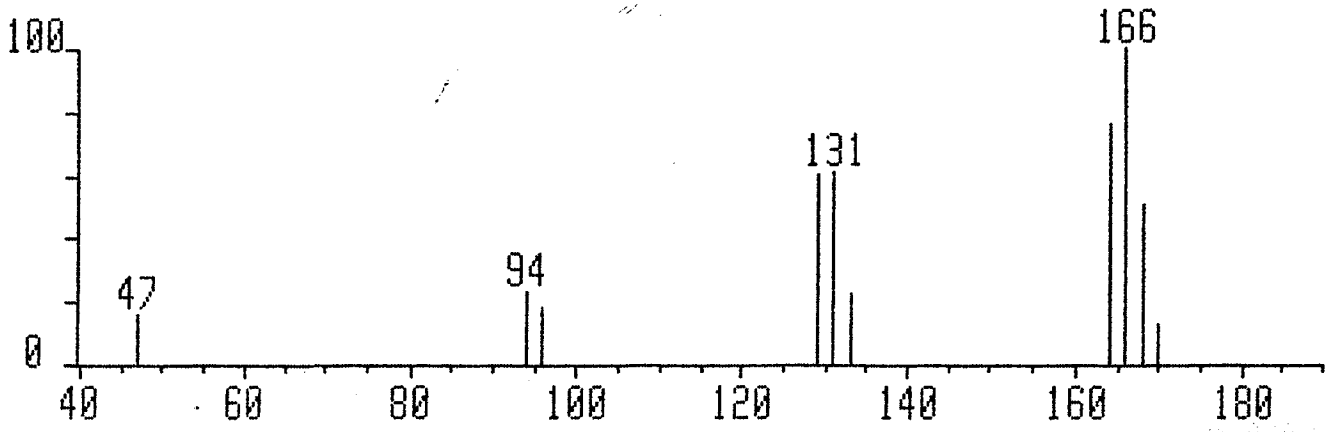
RR1101#487 x1 Bgd=471 14-MAY-92 20:42+0:25:15 EI+
I=927mv TIC=32137000 Acnt:
Text:INFLUENT_17001_Tetrachloroethene



RR1101S#487 x1 Bgd=481 14-MAY-92 20:42+0:25:15 EI+
I=927mv TIC=32137000 SU Acnt:
Text:INFLUENT_17001_Tetrachloroethene



V8240#35 x1 Bgd=1 1-DEC-89 13:03+0:01:47 EI+
I=248mv TIC=11347000 Acnt:VG#2
Text:Tetrachloroethene



ATT RESULTS RR1101 TIC 17001

Internal Standard	Scan	Area	Conc
Bromochloromethane	216	6162	50
1,4-Difluorobenzene	430	10517	50
Chlorobenzene-d5	543	13279	50

TIC Scan	BKG Scan	IS Scan	Area	Conc
~~5~~		~~216~~	~~37508~~	~~304~~

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BETWEEN

Lab Name: PACIFIC ANALYTICAL Contract:

Lab Code: PACIF Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 17002

Sample wt/vol: 5.0(g/mL) Lab File ID: RR1111

Level: (low/med) LOW Date Received: 05/07/92

% Moisture: not dec. 0 Date Analyzed: 05/14/92

GC Column: 1%SP1000 ID: 2 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	6	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-35-3	1,1-Dichloroethane	10	U
156-60-5	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-dichloropropene	10	U
75-25-2	Bromoform	10	U
591-78-6	4-Methyl-2-Pentanone	10	U
108-10-1	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BETWEEN

Lab Name: PACIFIC ANALYTICAL Contract:

Lab Code: PACIF Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 17002

Sample wt/vol: 5.0(g/mL) Lab File ID: RR1111

Level: (low/med) LOW Date Received: 05/07/92

% Moisture: not dec 0 Date Analyzed: 05/14/92

GC Column: 1%SP1000 ID: 2(mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
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26.				
27.				
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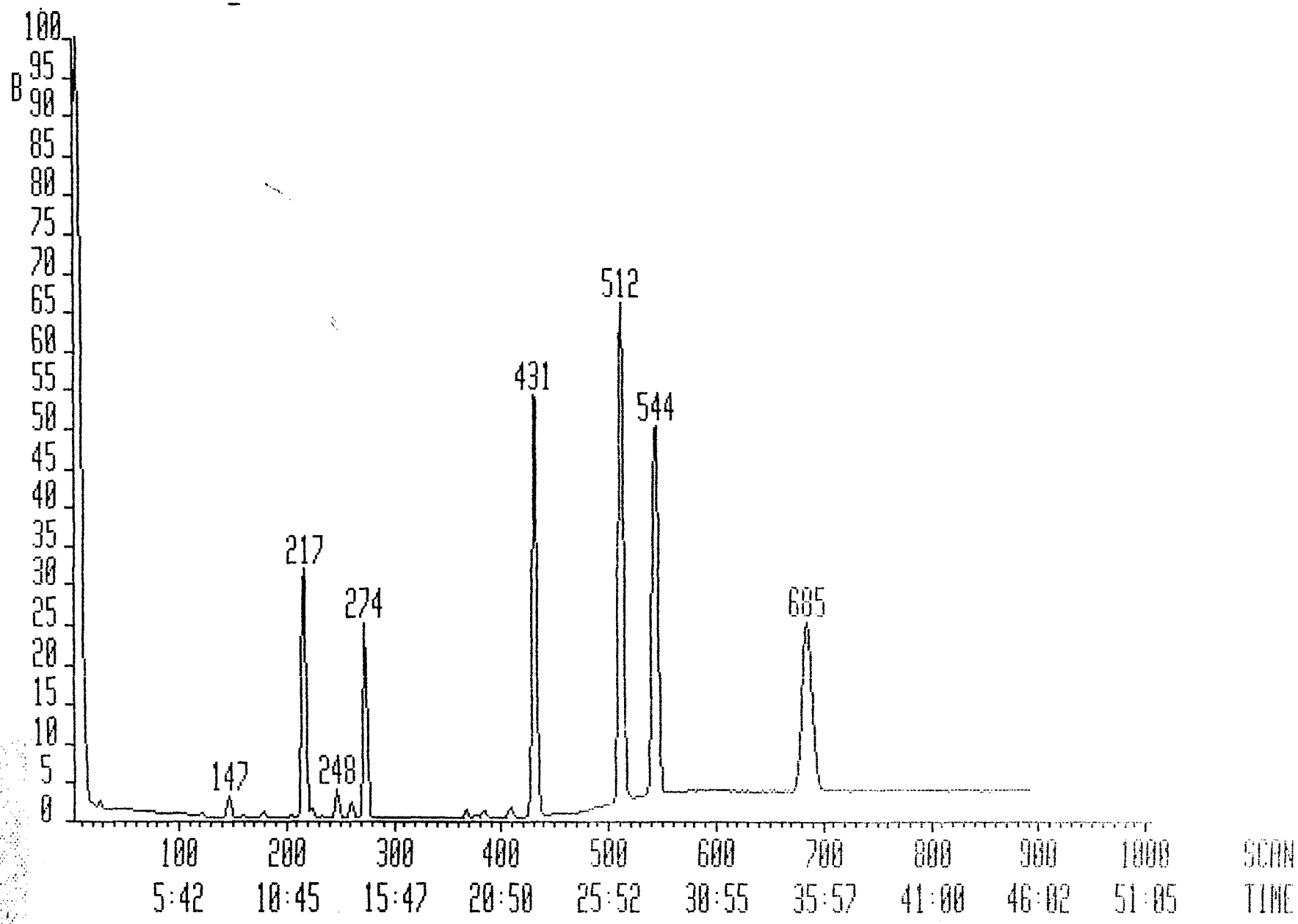
29.				
30.				

RR1111 #5-890 14-MAY-92 21:33 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 80710000

Text:BETWEEN_17002



Interim Report Sample Analysis 15-MAY-92 09:54:37

Datafile: RP1111 14-MAY-92 21:33
Database: VOA91L
Library: VOA91

Instrument: VG#2
Account:
Text: BETWEEN_17002

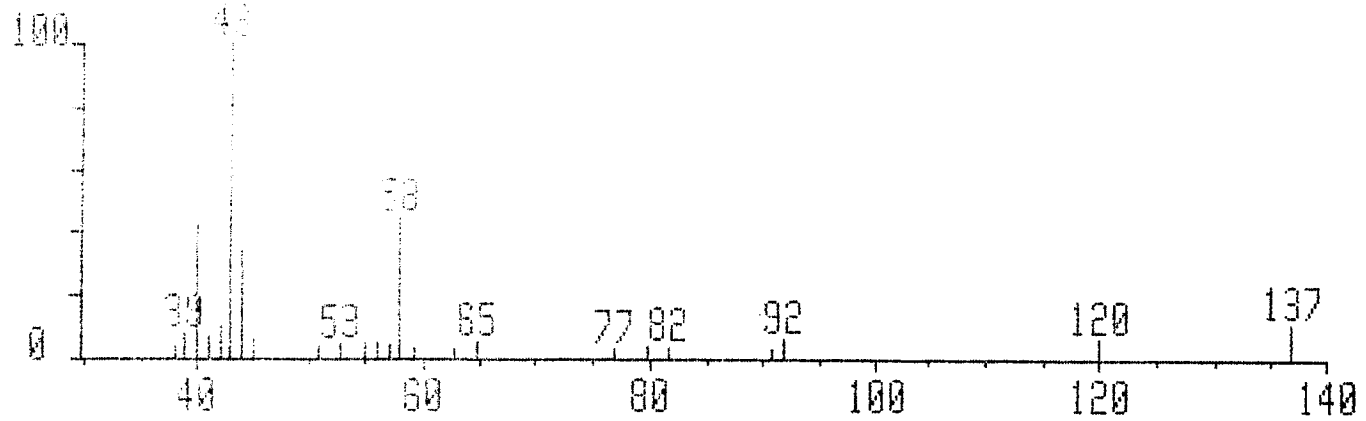
QRE
5/15/92
M.G.

No.	Rank	Spectrum Match	Spectrum Fit	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	Quan m/z	Compound Name
1	100	93	99	2	14110000	bb*	217	215	128	Bromochloromethane
2	98	87	99	1	23209000	vv	274	273	65	1,2-Dichloroethane-d4
~~3~~	~~53~~	2	98	0	60000	bb	25	25	50	Chloromethane
	47	0	95	6	3308	??	31			
	42	1	91	11	7167	??	36			
~~4~~	~~50~~	3	92	1	48000	v?	55	54	94	Bromomethane
	43	1	84	4	14000	?b	58			
	42	2	84	6	1600	??	60			
~~5~~	~~49~~	0	94	2	1828	??*	75	73	62	Vinyl Chloride
	47	1	94	6	3212	??	79			
	46	1	94	8	1686	??	81			
~~6~~	~~36~~	1	66	0	33000	bb	98	98	64	Chloroethane
	33	1	64	-3	4000	b?	95			
	32	1	63	-5	3500	?b	93			
7	96	83	98	1	2046000	bv	147	146	84	Methylene Chloride
8	76	45	99	-1	446286	vv	160	161	43	Acetone
	55	13	99	6	45600	??	167			
	53	8	99	-6	5857	??	155			
9	92	78	99	2	2318000	bv	179	177	76	Carbon Disulfide
~~10~~	~~82~~	57	99	1	259000	bb	205	204	96	1,1-Dichloroethene
~~11~~	~~71~~	36	99	1	339000	bb	233	232	63	1,1-Dichloroethane
	43	0	99	-15	168000	bv	217			
12	96	83	99	1	2578000	bb	248	247	96	1,2-Dichloroethene (to
13	94	80	99	1	2416000	bb	261	260	83	Chloroform
~~14~~	~~41~~	28	50	2	293000	bb	277	275	62	1,2-Dichloroethane
	16	2	37	17	4000	bb	292			
~~15~~	~~53~~	0	99	0	86700	vv	272	272	43	2-Butanone
	45	4	84	-4	15500	??	268			
	43	4	84	-6	6100	??	266			
16	86	61	99	0	80498000	bv	431	431	114	1,4-Difluorobenzene
~~17~~	~~71~~	39	95	1	127000	bb	304	303	97	1,1,1-Trichloroethane
~~18~~	~~39~~	7	66	0	21000	bb	312	312	117	Carbon Tetrachloride
	33	3	67	-9	20000	bb	303			
	16	1	37	-16	7000	bb	296			
19	---------- No Trace Found ----------							0	1	
~~20~~	~~43~~	4	78	1	14000	bb	324	323	83	Bromodichloromethane
~~21~~	~~33~~	3	73	15	3000	bb	366	351	63	1,2-Dichloropropane
	31	3	72	17	3000	bb	368			
	30	6	51	1	10000	?b	352			
~~22~~	~~36~~	6	62	1	26000	bb	357	356	75	cis-1,3-Dichloropropen
	33	3	62	-4	3000	bb	352			
	20	3	44	-16	3000	bb	340			
~~23~~	~~88~~	65	99	0	622000	bb	367	367	130	Trichloroethene
~~24~~	~~32~~	2	59	2	14000	bb	385	383	129	Dibromochloromethane
~~25~~	~~77~~	47	97	0	379000	bb	385	385	97	1,1,2-Trichloroethane
~~26~~	~~70~~	36	97	1	305000	vv	378	377	78	Benzene
	42	3	85	8	4000	??	385			
~~27~~	~~38~~	2	70	1	27000	bb	384	383	75	trans-1,3-dichloroprop
28	---------- No Trace Found ----------							367	1	

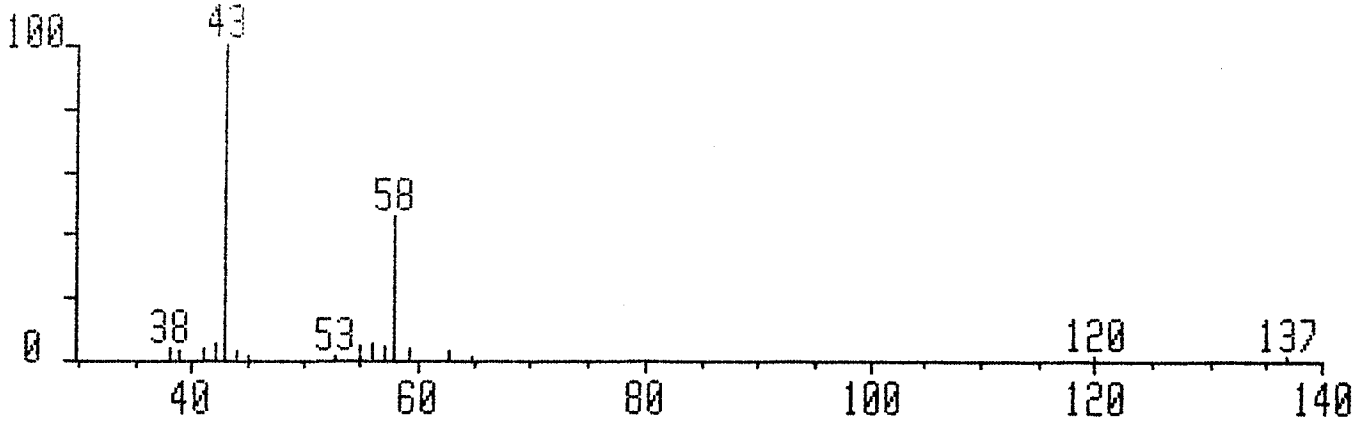
~~29~~	~~[illegible]~~	2	37	-15	4000	bb	427	442	173	Bromoform
30	80	74	98	2	73302560	bv	544	542	117	Chlorobenzene-d5
31	94	51	99	1	38756020	vv	685	684	95	4-Bromofluorobenzene
32	98	52	75	1	36732020	vv	512	511	98	Toluene-d8
~~33~~	~~54~~	15	90	0	23480	??	448	448	43	4-Methyl-2-Pentanone
	53	[illegible]	[illegible]	[illegible]	22360	??	450			
	55	14	90	-3	6039	??	445			
~~34~~	~~54~~	16	85	0	0	??	481	481	43	2-Hexanone
	52	16	86	2	13632	??	483			
	52	16	86	-2	0	??	478			
~~35~~	~~45~~	4	87	1	20000	bb	488	487	164	Tetrachloroethene
~~36~~	~~50~~	4	91	1	13595	??*	492	491	83	1,1,2,2-Tetrachloroeth
	48	4	90	4	6162	??	495			
	47	3	89	-4	3679	??	487			
~~37~~	~~37~~	14	96	2	745698	vb	517	515	91	Toluene
	41	8	81	10	1800	??	525			
	41	7	81	-10	0	??	505			
~~38~~	~~34~~	1	65	2	92951	vv	548	546	112	Chlorobenzene
	32	1	65	8	4488	??	554			
	30	1	63	-10	3273	??	536			
~~39~~	~~34~~	8	57	1	26690	??	605	604	106	Ethylbenzene
	32	7	56	3	11586	??	607			
	31	7	55	-4	24345	??	600			
~~40~~	~~33~~	3	59	1	66778	b?	728	727	104	Styrene
	32	3	59	-2	26667	b?	725			
	29	3	59	-9	15000	?b	718			
~~41~~	~~33~~	8	54	-1	9000	??	734	735	106	m-Xylene
	32	8	54	3	30111	??	738			
	31	8	53	-3	18778	b?	732			
~~42~~	~~34~~	8	55	0	14706	??	768	768	106	o-/p-Xylene
	33	8	55	2	46176	??	770			
	32	8	55	4	46176	??	772			
43	---------- No Trace Found ----------							0	-	

RR1111
BETWEEN

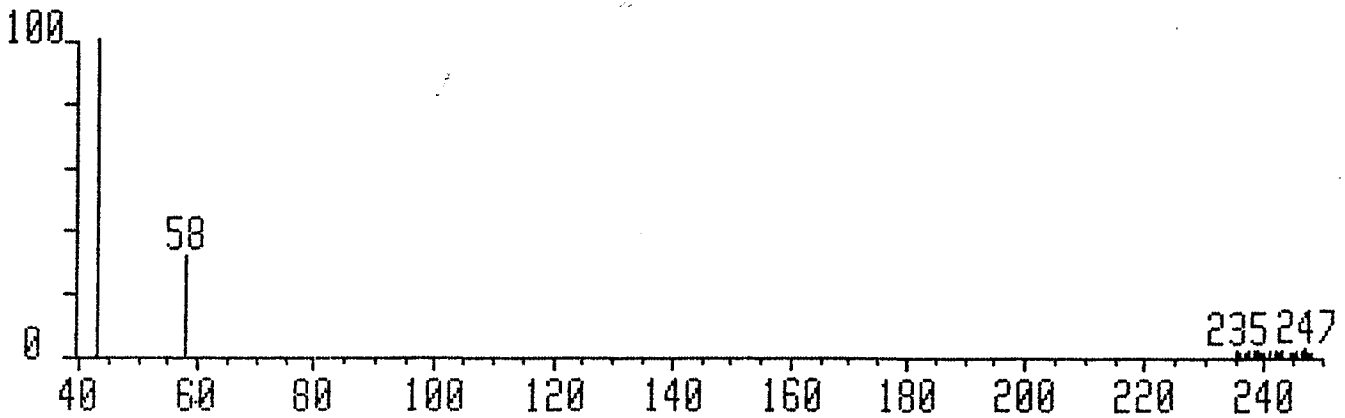
RR1111#150 x1 Bgd=1 14-MAY-92 21:33+0:08:44 EI+
I=19mv TIC=495000 Acnt:
Text:BETWEEN_17002_Acetone



RR1111S#150 x1 Bgd=156 14-MAY-92 21:33+0:08:44 EI+
I=17mv TIC=216000 SU Acnt:
Text:BETWEEN_17002_Acetone



V8240#8 x1 Bgd=1 1-DEC-89 13:03+0:00:26 EI+
I=226mv TIC=11124000 Acnt:VG#2
Text:Acetone



ATT RESULTS RR1111 TIC 17002

Internal Standard	Scan	Area	Conc
Bromochloromethane	217	6349	50
1,4-Difluorobenzene	431	11270	50
Chlorobenzene-d5	544	13927	50

TIC Scan	BKG Scan	IS Scan	Area	Conc
~~6~~		~~217~~	~~36202~~	~~285~~

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EFFLUENT

Lab Name: PACIFIC ANALYTICAL Contract:

Lab Code: PACIF Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 17003

Sample wt/vol: 5.0(g/mL) Lab File ID: RR1121

Level: (low/med) LOW Date Received: 05/07/92

% Moisture: not dec. 0 Date Analyzed: 05/14/92

GC Column: 1%SP1000 ID: 2 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	J
67-64-1	Acetone	11	
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-35-3	1,1-Dichloroethane	10	U
156-60-5	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-dichloropropene	10	U
75-25-2	Bromoform	10	U
591-78-6	4-Methyl-2-Pentanone	10	U
108-10-1	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EFFLUENT

Lab Name: PACIFIC ANALYTICAL Contract:

Lab Code: PACIF Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 17003

Sample wt/vol: 5.0(g/mL) Lab File ID: RR1121

Level: (low/med) LOW Date Received: 05/07/92

% Moisture: not dec. 0 Date Analyzed: 05/14/92

GC Column: 1%SP1000 ID: 2(mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
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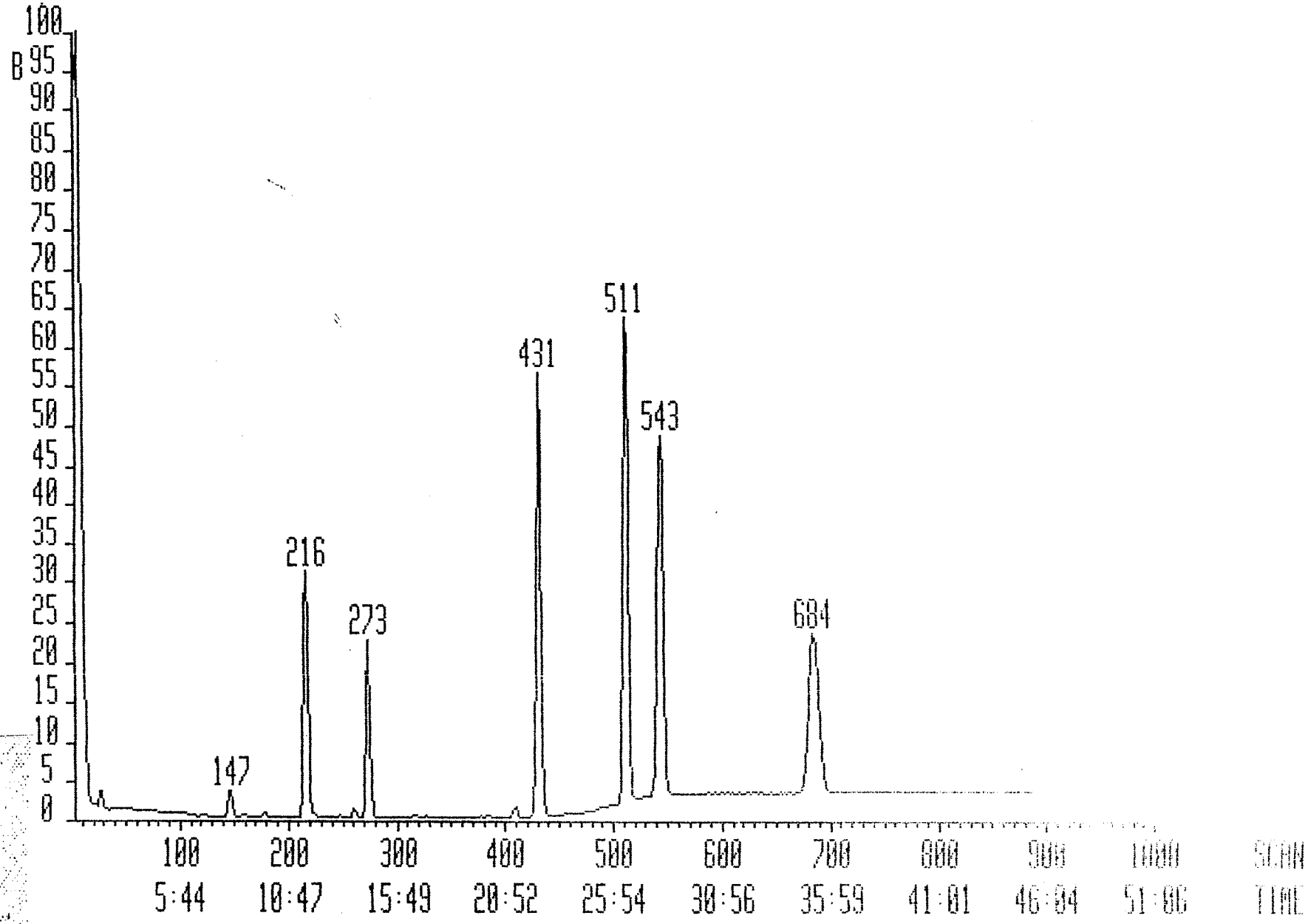
26.					
27.					
28.					
29.					
30.					

RR1121 #5-889 14-MAY-92 22:25 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 82380000

Text:EFFLUENT_17003



Data File: [illegible] [illegible]-MAY-92 22:25
Data [illegible]
Lab [illegible]

Instrument [illegible]
Analyst [illegible]
Test [illegible]

QRE
5/15/92
m.g.

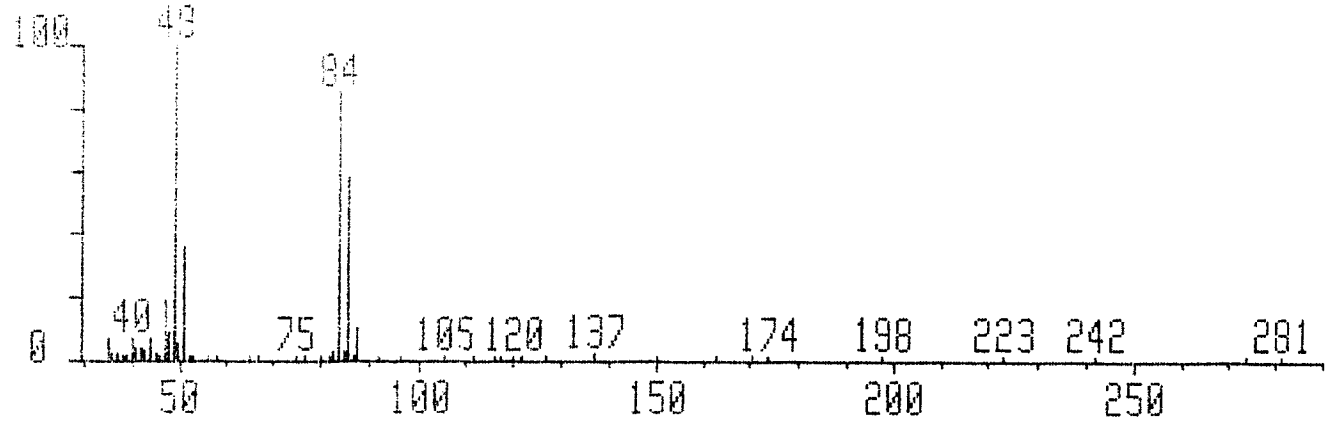
No.	Rank	Spectrum Match	Fit	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	Quan m/z	Compound Name
1	100	92	99	1	13564000	bv*	216	215	128	Bromochloromethane
2	99	87	99	0	21655410	vv	273	273	65	1,2-Dichloroethane-d4
~~3~~	~~[illegible]~~	1	90	0	67000	bb*	25	25	50	Chloromethane
	42	0	90	-9	7000	?b	16			
	41	0	86	-7	3000	bb	18			
~~4~~	~~[illegible]~~	3	99	0	35837	vv	54	54	94	Bromomethane
	45	2	86	3	35837	v?	57			
	37	0	77	-8	3429	??	46			
~~5~~	~~[illegible]~~	3	97	-1	43000	b?*	72	73	62	Vinyl Chloride
	51	0	97	1	13000	??	74			
	48	0	94	-3	43000	b?	70			
~~6~~	~~35~~	2	82	-17	14000	??	81	98	64	Chloroethane
	35	1	64	0	30000	??	98			
	33	1	63	-2	7000	b?	96			
7	96	81	98	0	2488000	bb	146	146	84	Methylene Chloride
8	81	56	99	-2	724318	vv*	159	161	43	Acetone
	56	13	99	5	44409	??	166			
	52	9	99	-8	7250	??	153			
9	93	78	99	1	2004000	bv	178	177	76	Carbon Disulfide
~~10~~	~~67~~	26	99	0	45000	bb	204	204	96	1,1-Dichloroethene
~~11~~	~~70~~	31	99	0	248000	bb	232	232	63	1,1-Dichloroethane
	43	6	91	13	110000	bb	245			
	42	0	99	-16	169000	bv	216			
~~12~~	~~86~~	62	99	0	259000	bb	247	247	96	1,2-Dichloroethene (to
13	94	76	99	0	1398000	bb	260	260	83	Chloroform
~~14~~	~~35~~	24	43	1	177000	bb	276	275	62	1,2-Dichloroethane
	15	2	31	13	3000	bb	288			
	15	2	29	9	3000	bb	284			
~~15~~	~~52~~	0	99	-1	63000	vv	271	272	43	2-Butanone
	48	6	96	9	5000	??	281			
	46	1	99	-11	13000	??	261			
16	85	60	99	0	80284000	bv	431	431	114	1,4-Difluorobenzene
~~17~~	~~70~~	32	98	0	66000	bb	303	303	97	1,1,1-Trichloroethane
~~18~~	~~33~~	3	66	-9	4000	bb	303	312	117	Carbon Tetrachloride
19	----------	No Trace Found	----------					0	1	
20	----------	No Trace Found	----------					323	83	Bromodichloromethane
~~21~~	~~22~~	4	43	-10	3000	bb	341	351	63	1,2-Dichloropropane
	13	1	24	-2	3000	bb	349			
~~22~~	~~36~~	4	63	0	15000	bb	356	356	75	cis-1,3-Dichloropropen
	35	5	63	2	15000	bb	358			
	28	2	53	-5	7000	?b	351			
~~23~~	~~64~~	21	98	0	35000	bb	367	367	130	Trichloroethene
24	----------	No Trace Found	----------					383	129	Dibromochloromethane
~~25~~	~~10~~	1	25	-19	32000	bb	366	385	97	1,1,2-Trichloroethane
	10	0	23	-17	32000	bb	368			
~~26~~	~~71~~	36	97	0	265000	bb	377	377	78	Benzene
27	40	3	73	2	14000	bb	385	383	75	trans-1,3-dichloroprop
	27	3	52	-7	4000	bb	376			
28	----------	No Trace Found	----------					367	1	

~~000032~~

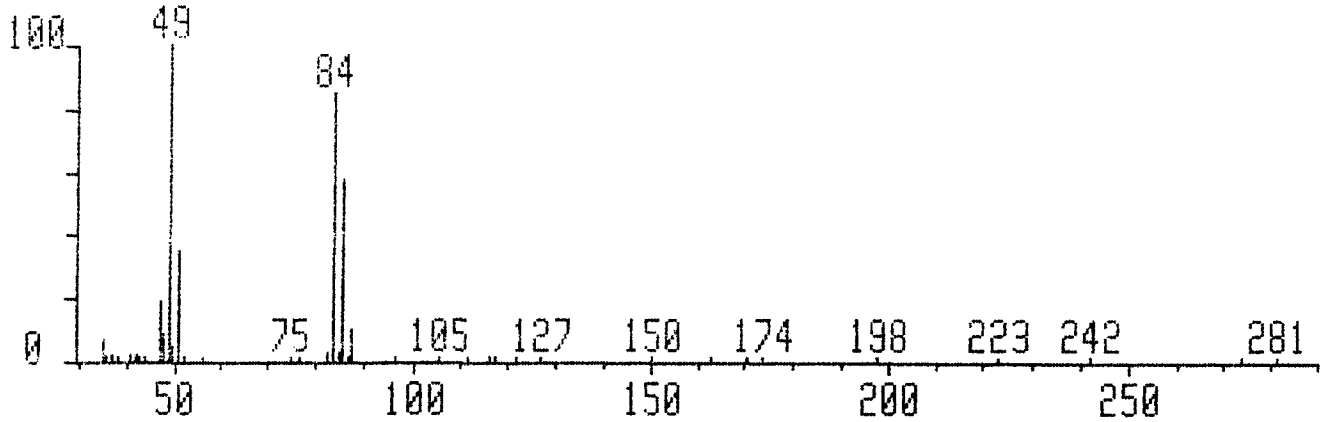
28	----------			No Trace Found		----------		442	173	Bromoform
29	90	73	99	0	71002880	bv	542	542	117	Chlorobenzene-d5
31	84	61	98	1	37737610	vy	685	684	95	4-Bromofluorobenzene
32	81	62	95	0	38587520	vv	511	511	98	Toluene-d8
33	37	16	90	2	23167	??	450	448	43	4-Methyl-2-Pentanone
	36	18	90	0	23167	??	448			
	31	15	89	6	3150	??	454			
34	38	17	85	0	13600	??	481	481	43	2-Hexanone
	34	17	86	-2	32200	??	479			
	33	17	85	2	4750	??	483			
35	1	2	92	-1	3000	bb	486	487	164	Tetrachloroethene
36	32	1	92	-3	3250	??	488	491	83	1,1,2,2-Tetrachloroeth
	33	1	88	0	250	??	491			
	37	1	87	1	1843	??	490			
37	81	15	95	2	307400	vv	517	515	91	Toluene
	43	9	81	9	27400	??	524			
	40	9	75	11	4200	??	526			
38	34	1	68	2	86000	vv	548	546	112	Chlorobenzene
	31	1	61	9	3000	??	555			
	31	1	62	7	3000	??	553			
39	33	7	74	-1	32000	b?	603	604	106	Ethylbenzene
	32	7	54	2	9000	??	606			
	30	7	53	4	29000	??	608			
40	35	3	60	-2	25000	??	725	727	104	Styrene
	33	3	59	1	22000	??	728			
	31	3	58	2	45000	??	730			
41	35	8	54	-1	27200	??	734	735	106	m-Xylene
	32	8	54	2	4667	??	737			
	31	8	54	-4	12200	??	731			
42	33	8	54	-1	17667	??	767	768	106	o-/p-Xylene
	31	8	54	-5	15000	??	763			
	31	8	52	3	16000	??	771			
43	----------			No Trace Found		----------		0	-	

RR1121
EFFLUENT

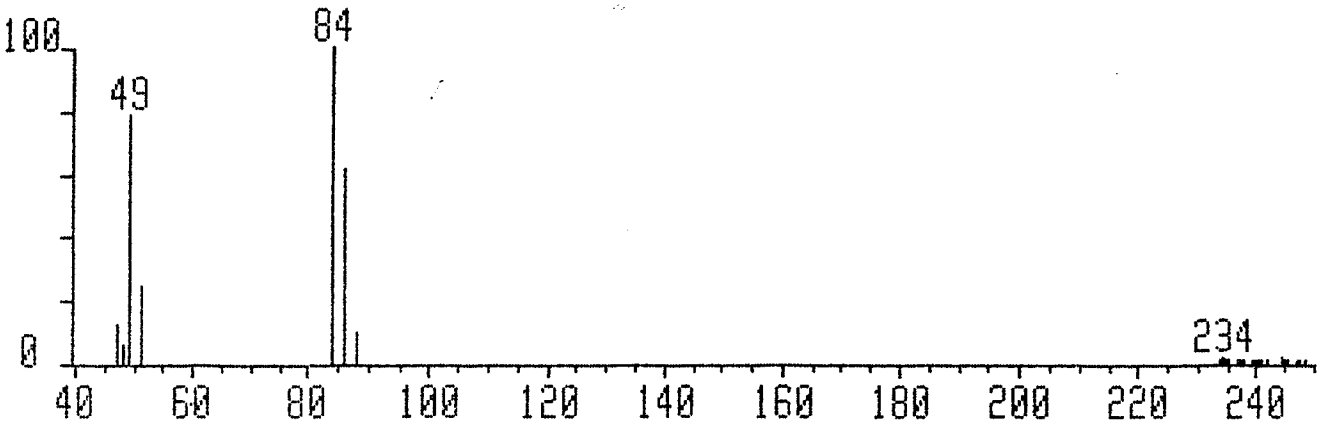
RR1121#146 x1 Bgd=1 14-MAY-92 22:25+0:08:03 EI+
I=119mv TIC=2976000 Acnt:
Text:EFFLUENT_17003_Methylene Chloride



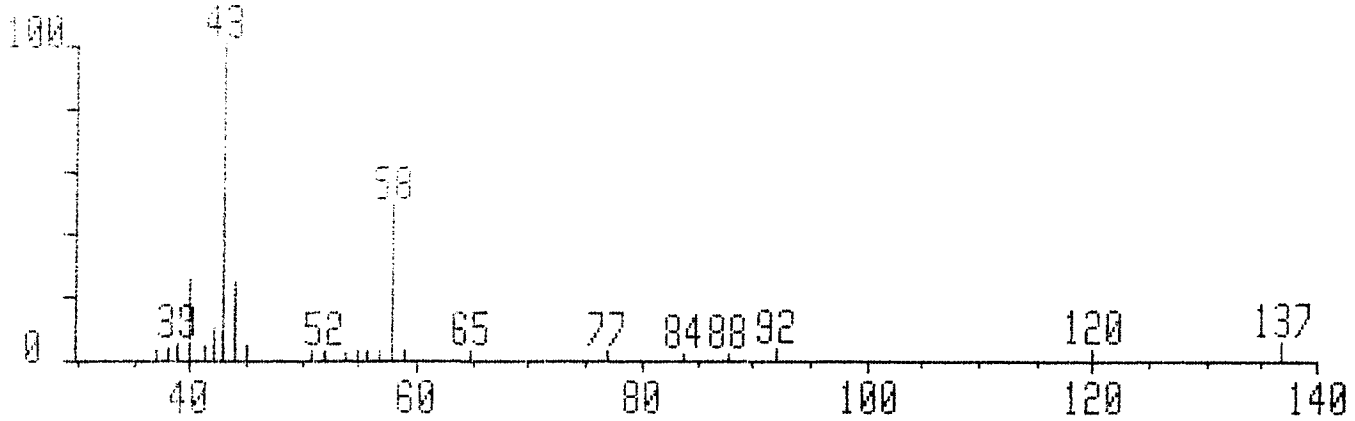
RR1121S#146 x1 Bgd=141 14-MAY-92 22:25+0:08:03 EI+
I=119mv TIC=2763000 SU Acnt:
Text:EFFLUENT_17003_Methylene Chloride



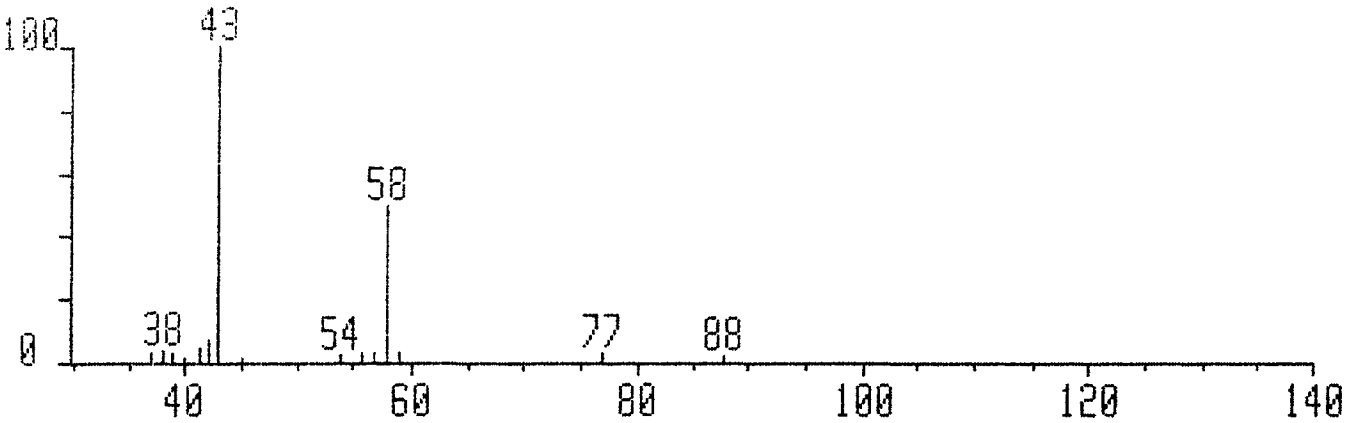
V8240#7 x1 Bgd=1 1-DEC-89 13:03+0:00:23 EI+
I=234mv TIC=10910000 Acnt:VG#2
Text:Methylene Chloride



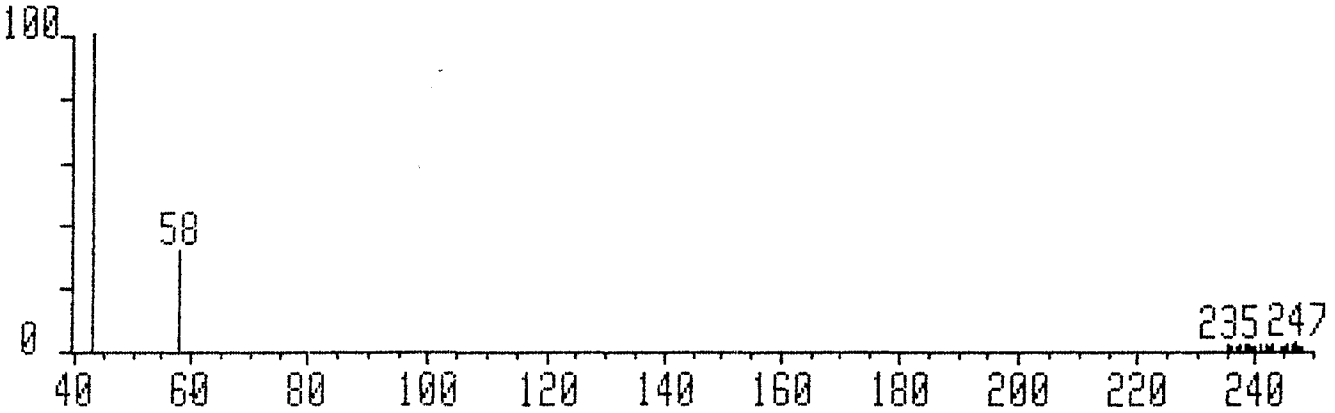
RR1121#158 x1 Bgd=1 14-MAY-92 22:25+0:08:42 EI+
I=29mv TIC=527000 Acnt:
Text:EFFLUENT_17003_Acetone



RR1121S#159 x1 Bgd=154 14-MAY-92 22:25+0:08:42 EI+
I=27mv TIC=334000 SU Acnt:
Text:EFFLUENT_17003_Acetone



V8240#8 x1 Bgd=1 1-DEC-89 13:03+0:00:26 EI+
I=226mv TIC=11124000 Acnt:VG#2
Text:Acetone



ATT RESULTS RR1121 TIC 17003

Internal Standard	Scan	Area	Conc
Bromochloromethane	216	6104	50
1,4-Difluorobenzene	431	11240	50
Chlorobenzene-d5	542	13491	50

TIC Scan	BKG Scan	IS Scan	Area	Conc

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PS#3

Lab Name: PACIFIC ANALYTICAL Contract:

Lab Code: PACIF Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 17004

Sample wt/vol: 5.0(g/mL) Lab File ID: RR1131

Level: (low/med) LOW Date Received: 05/07/92

% Moisture: not dec. 0 Date Analyzed: 05/14/92

GC Column: 1%SP1000 ID: 2 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	9	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-35-3	1,1-Dichloroethane	10	U
156-60-5	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	67	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-dichloropropene	10	U
75-25-2	Bromoform	10	U
591-78-6	4-Methyl-2-Pentanone	10	U
108-10-1	2-Hexanone	10	U
127-18-4	Tetrachloroethene	41	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

LE
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

PS#3

Lab Name: [illegible] ANALYTICAL Contract:

Lab Code: [illegible] Case No.: SAS No.: SDG No.:

Matrix: (soil/water): WATER Lab Sample ID: 17004

Sample wt/vol: [illegible] g/mL Lab File ID: RR1131

Level: (low/med): LOW Date Received: 05/07/92

% Moisture: not dec. 0 Date Analyzed: 05/14/92

GC Column: 1%SP1000 ID: 2(mm) Dilution Factor: 1.0

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

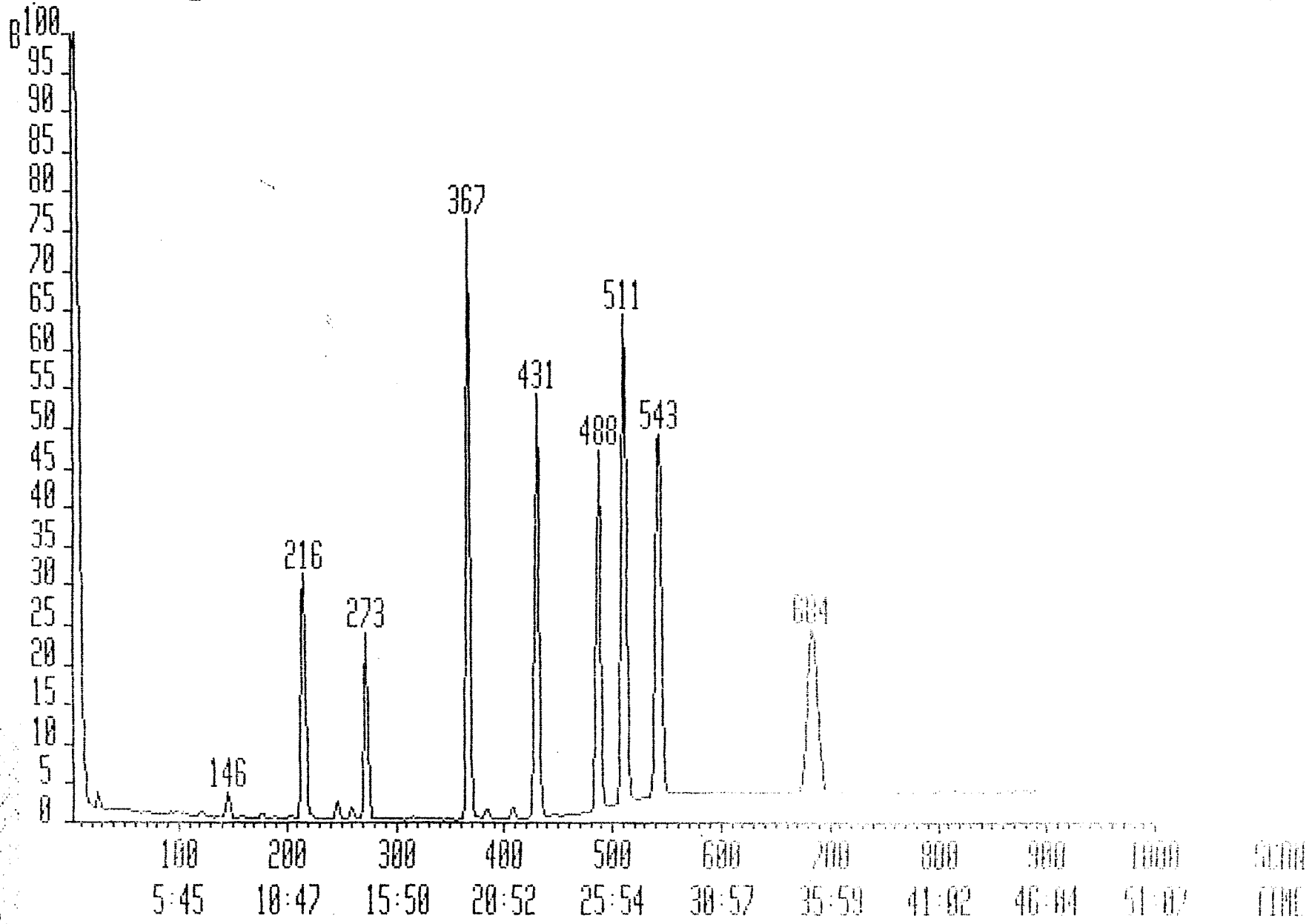
Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg)

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.				

RR1131 #5-889 14-MAY-92 23:16 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 79338800

Text:PS#3_17004



Interim Report Sample Analysis 15-MAY-92 10:04:31

Datafile 991131 14-MAY-92 22:16
Database MCA91L
Library MCA91

Instrument: 03#2
Account:
Text: PS#3_17004

QRE
5/15/92
JM. B.

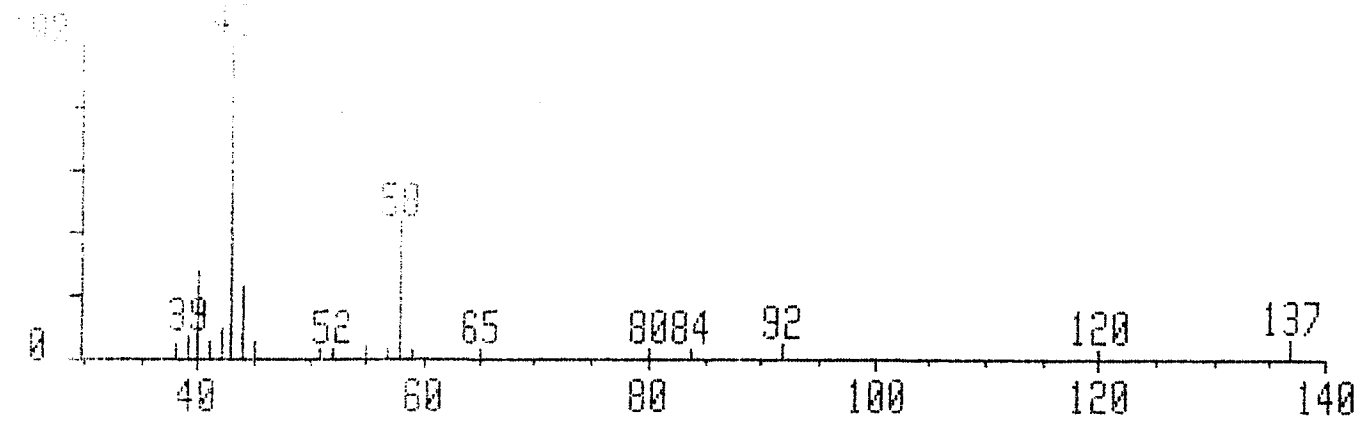
No.	Rank	Spectrum Match	Spectrum Fit	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	Quan m/z	Compound Name
1	100	92	99	1	13348000	bb*	216	215	128	Bromochloromethane
2	99	87	99	0	21813000	bv	273	273	65	1,2-Dichloroethane-d4
~~3~~	~~72~~	1	98	-1	67000	bv	24	25	50	Chloromethane
	45	0	90	5	13000	??	30			
	44	0	90	7	28000	??	32			
~~4~~	~~50~~	2	91	0	27185	vb	54	54	94	Bromomethane
	37	1	74	6	3667	??	60			
	36	1	75	8	167	??	62			
~~5~~	~~51~~	0	97	-1	13000	?b	72	73	62	Vinyl Chloride
	49	1	94	-3	17000	b?	70			
	46	0	88	2	8000	bb	75			
~~6~~	~~48~~	1	89	0	19000	bb	98	98	64	Chloroethane
	44	3	94	12	19000	v?	110			
	41	2	82	7	19000	b?	105			
7	96	81	98	0	2275000	bb	146	146	84	Methylene Chloride
8	80	55	99	-2	612875	vv	159	161	43	Acetone
	57	15	99	5	44625	??	166			
	52	12	99	9	11125	??	170			
9	92	76	99	1	2010000	bb	178	177	76	Carbon Disulfide
~~10~~	~~87~~	63	99	0	295000	bb	204	204	96	1,1-Dichloroethene
~~11~~	~~71~~	33	99	0	256000	bb	232	232	63	1,1-Dichloroethane
12	96	81	99	0	1586000	bb	247	247	96	1,2-Dichloroethene (to
13	96	80	99	0	1778000	bb	260	260	83	Chloroform
~~14~~	~~85~~	24	43	1	178000	bb	276	275	62	1,2-Dichloroethane
~~15~~	~~52~~	1	99	-2	100615	vv	270	272	43	2-Butanone
	43	4	84	-6	7462	??	266			
	42	4	84	-8	8000	??	264			
16	84	61	99	-1	74702000	bv	430	431	114	1,4-Difluorobenzene
~~17~~	~~61~~	21	94	0	51000	bb	303	303	97	1,1,1-Trichloroethane
~~18~~	~~58~~	19	90	0	35000	bb	312	312	117	Carbon Tetrachloride
	33	2	67	-9	3000	bb	303			
19	---------- No Trace Found ----------							0	1	
~~20~~	~~24~~	1	43	0	3000	bb	323	323	83	Bromodichloromethane
~~21~~	~~20~~	1	46	16	109000	bb	367	351	63	1,2-Dichloropropane
~~22~~	~~24~~	2	53	-14	3000	bb	342	356	75	cis-1,3-Dichloropropen
	14	0	33	17	3000	bb	373			
	10	0	22	9	8000	bb	365			
23	96	81	99	0	45454000	bv	367	367	130	Trichloroethene
~~24~~	~~16~~	1	37	-16	143000	bb	367	383	129	Dibromochloromethane
25	~~24~~	60	97	0	608000	vb	385	385	97	1,1,2-Trichloroethane
~~26~~	~~72~~	38	96	0	296000	bb	377	377	78	Benzene
~~27~~	~~26~~	1	48	1	4000	bb	384	383	75	trans-1,3-dichloroprop
	20	0	43	-10	3000	bb	373			
	10	0	25	-18	8000	bb	365			
28	---------- No Trace Found ----------							367	1	
29	---------- No Trace Found ----------							442	173	Bromoform
30	92	74	98	0	68585490	bv	542	542	117	Chlorobenzene-d5
31	84	61	99	1	37031020	vv	685	684	95	4-Bromofluorobenzene
32	83	61	95	0	82082660	vv	511	511	98	Toluene-d8

000042

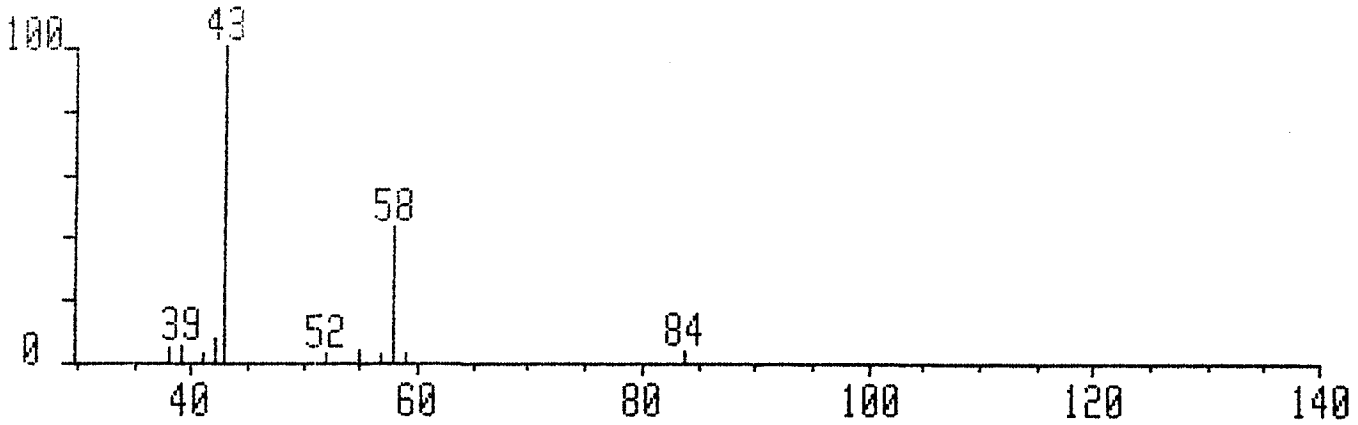
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	32	14	90	0	41290	??	448	448	43	4-Methyl-2-Pentanone
	31	4	90	1	3968	??	451			
	32	14	89	-5	1774	??	443			
[illegible]	35	[illegible]	87	1	18871	??	481	481	43	2-Hexanone
	32	[illegible]	85	-2	23742	??	479			
	32	[illegible]	85	-4	56258	??	477			
[illegible]	37	14	88	1	1e37000	bv	488	487	164	Tetrachloroethene
[illegible]	[illegible]	[illegible]	83	[illegible]	0	??*	497	491	83	1,1,2,2-Tetrachloroeth
	44	[illegible]	80	10	16776	??	501			
	47	[illegible]	85	-6	0	??	482			
[illegible]	[illegible]	[illegible]	76	1	599610	vb	516	515	91	Toluene
	46	3	81	0	9667	??	524			
	48	[illegible]	83	-12	2788	??	503			
[illegible]	[illegible]	[illegible]	66	1	50000	?v	547	546	112	Chlorobenzene
	30	[illegible]	63	9	4000	??	555			
	29	[illegible]	62	-10	2000	??	536			
39	[illegible]	[illegible]	52	1	46000	?v	605	604	106	Ethylbenzene
	30	6	51	-2	13000	??	602			
	28	6	52	-7	13000	??	597			
40	[illegible]	4	61	1	25000	??	728	727	104	Styrene
	31	3	57	-2	16000	??	725			
	31	3	59	-6	27000	??	721			
41	[illegible]	3	55	-2	18000	b?	733	735	106	m-Xylene
	32	3	54	1	18000	?b	736			
	31	3	53	3	11000	b?	738			
42	[illegible]	3	56	-1	28000	b?	767	768	106	o-/p-Xylene
	30	3	54	1	28000	??	769			
	31	3	53	3	28000	??	771			
43	---------- No Trace Found ----------							0	-	

RR1131
PS # 3_17004

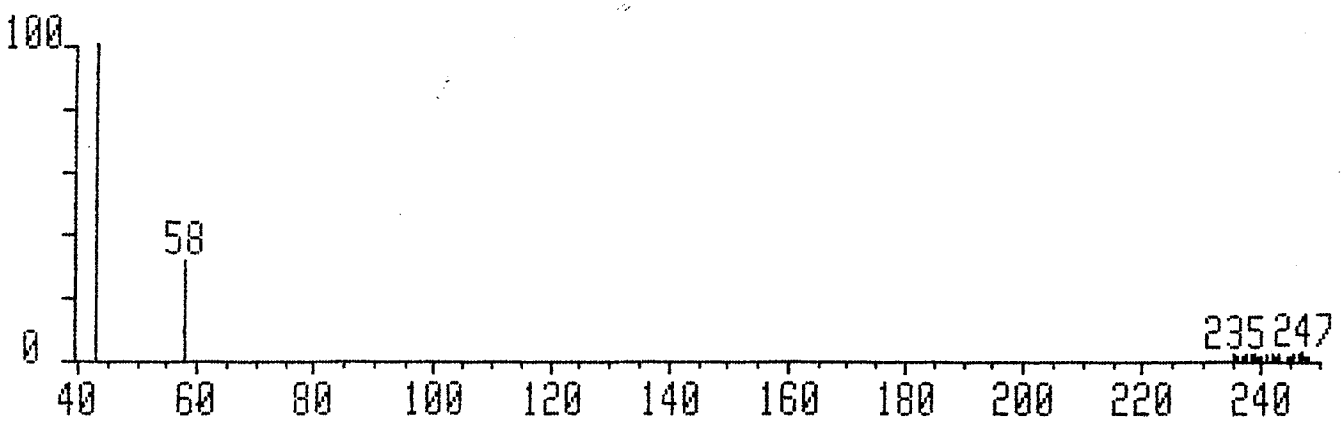
[illegible] Bgd=1 14-MAY-92 23:16+0:00:43 EI+
I=28mv TIC=456000 Acnt:
Text:PS#3_17004_Acetone



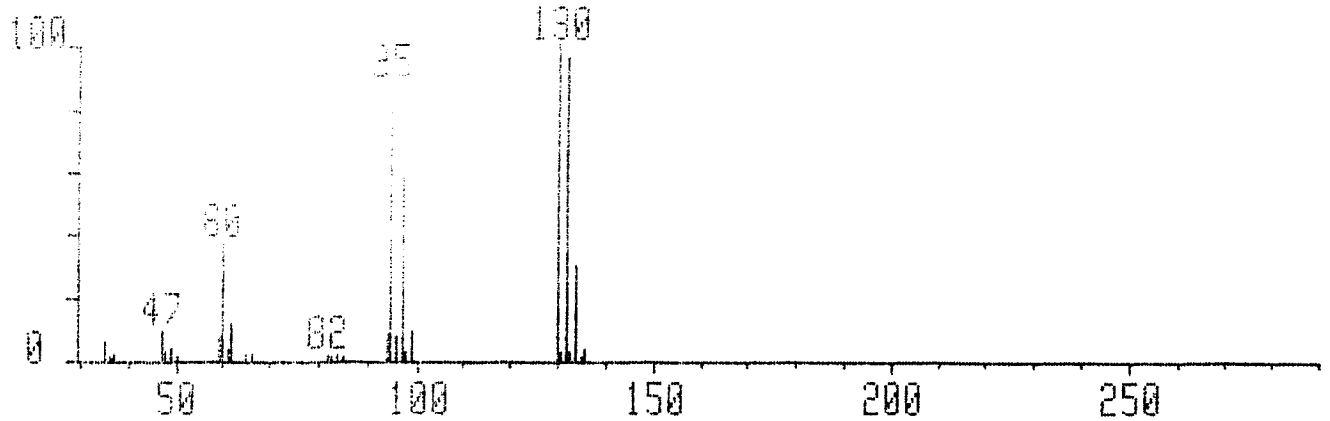
RR1131S#159 x1 Bgd=154 14-MAY-92 23:16+0:00:43 EI+
I=26mv TIC=300000 SU Acnt:
Text:PS#3_17004_Acetone



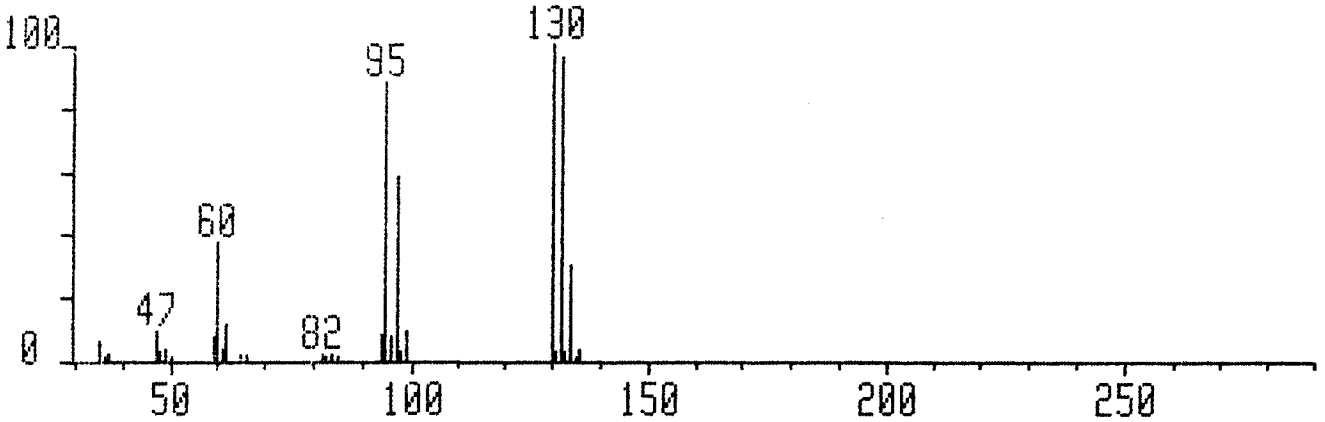
V8240#8 x1 Bgd=1 1-DEC-89 13:03+0:00:26 EI+
I=226mv TIC=11124000 Acnt:VG#2
Text:Acetone



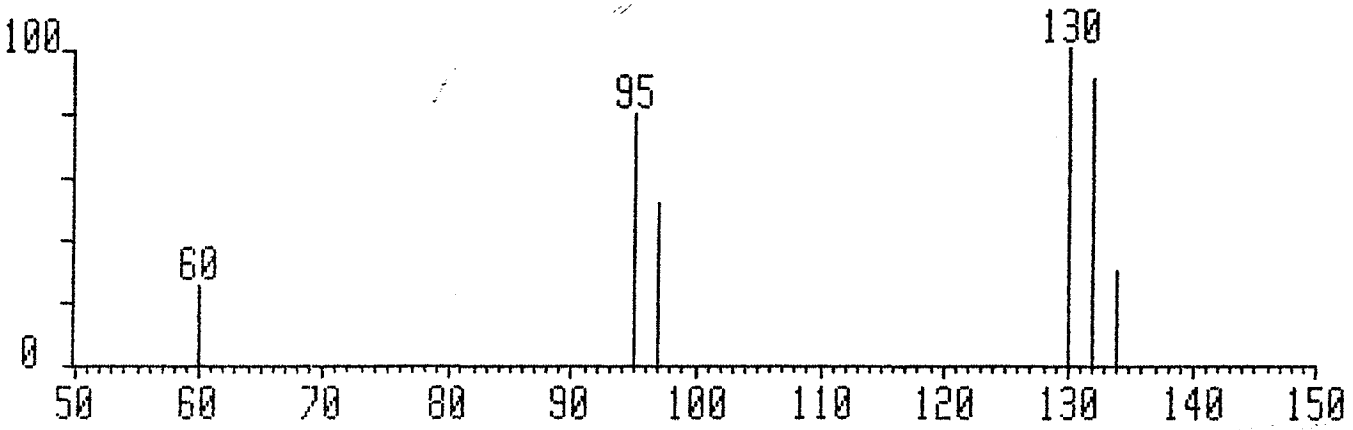
RR1131#367 x1 Bgd=360 14-MAY-92 23:16+0:19:12 EI+
I=1.9v TIC=60746000 Acnt:
Text:PS#3_17004_TrichLoroethene



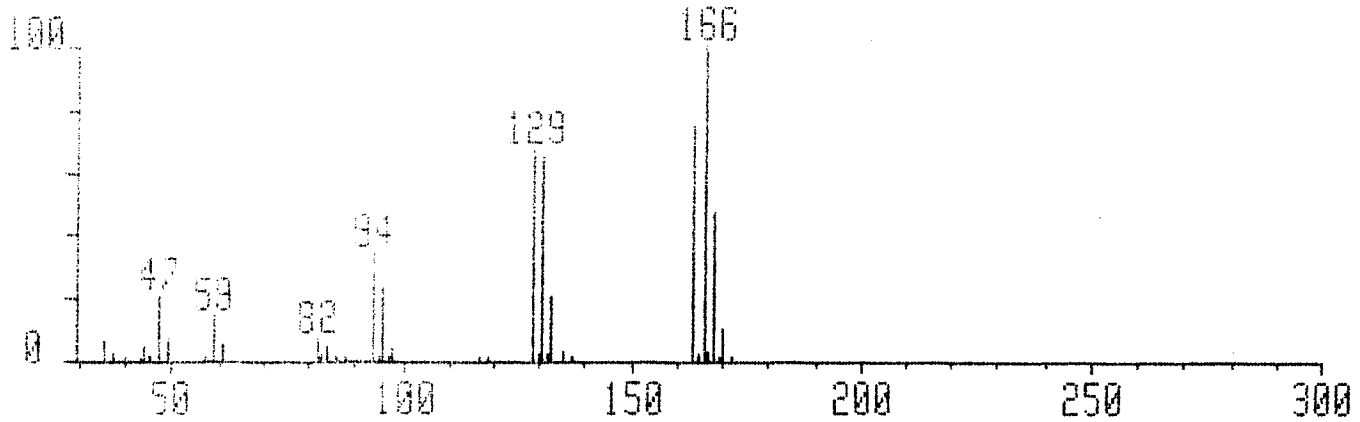
RR1131S#367 x1 Bgd=360 14-MAY-92 23:16+0:19:12 EI+
I=1.8v TIC=60640000 SU Acnt:
Text:PS#3_17004_TrichLoroethene



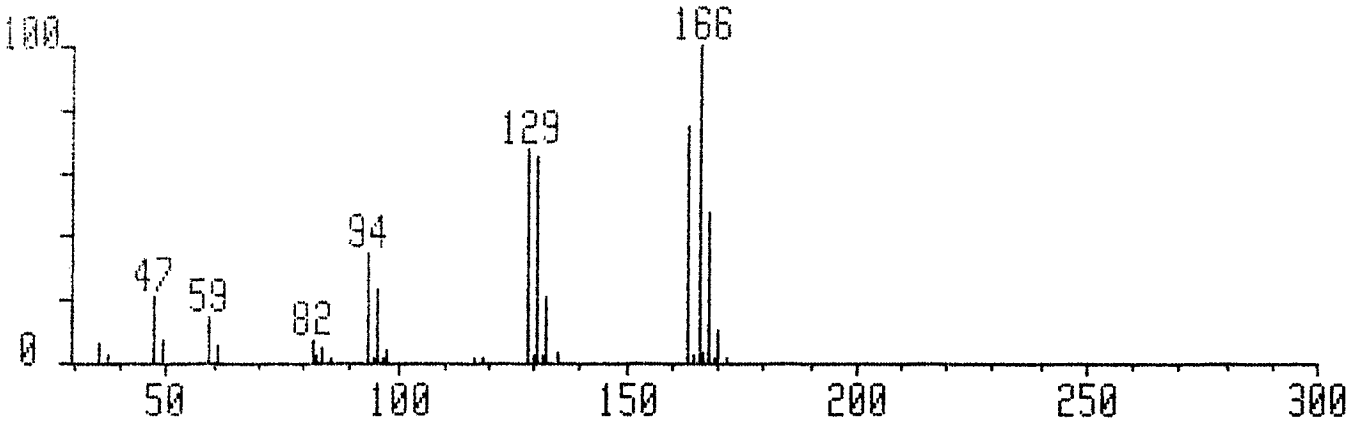
V8240#23 x1 Bgd=1 1-DEC-89 13:03+0:01:11 EI+
I=251mv TIC=11543000 Acnt:VG#2
Text:TrichLoroethene



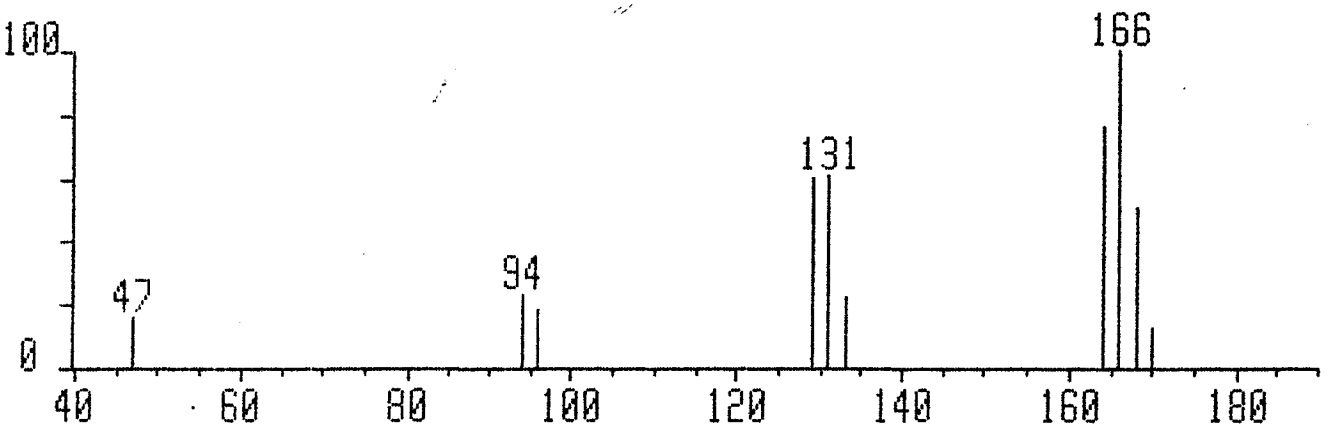
RR1[illegible]#4[illegible] x1 Bgd=475 14-MAY-92 23:16+0:25:18 EI+
I=[illegible] TIC=[illegible]25000 Acnt:
Text: PS#[illegible]_[illegible]004_Tetrachloroethene



RR1[illegible]315#48[illegible] x1 Bgd=481 14-MAY-92 23:16+0:25:18 EI+
I=1.1v TIC=36449000 SU Acnt:
Text: PS#3_17004_Tetrachloroethene



V8240#35 x1 Bgd=1 1-DEC-89 13:03+0:01:47 EI+
I=248mv TIC=11347000 Acnt:VG#2
Text: Tetrachloroethene



ATT RESULTS RR1131 TIC 17004

Internal Standard	Scan	Area	Conc
Bromochloromethane	216	6007	50
1,4-Difluorobenzene	430	10458	50
Chlorobenzene-d5	542	13031	50

TIC Scan	BKG Scan	IS Scan	Area	Conc
~~3~~		~~216~~	~~33081~~	~~275~~

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PS#4

Lab Name: PACIFIC ANALYTICAL Contract:

Lab Code PACIF Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 17005

Sample wt/vol. 5.0(g/mL) Lab File ID: RR1141

Level: (low/med) LOW Date Received: 05/07/92

% Moisture: not dec 0 Date Analyzed: 05/15/92

GC Column: 1%SP1000 ID: 2 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	9	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-35-3	1,1-Dichloroethane	10	U
156-60-5	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	36	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-dichloropropene	10	U
75-25-2	Bromoform	10	U
591-78-6	4-Methyl-2-Pentanone	10	U
108-10-1	2-Hexanone	10	U
127-18-4	Tetrachloroethene	28	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

~~PS#3~~ PS#4

Lab Name: [illegible] Contract:

Lab Code: [illegible] Case No.: SAS No.: SDG No.:

Matrix (soil/water): WATER Lab Sample ID: 17005

Sample wt/vol: 5.0(g/mL) Lab File ID: RR1141

Level: (low/med) LOW Date Received: 05/07/92

% Moisture: not dec. 0 Date Analyzed: 05/15/92

GC Column: 1%SP1000 ID: 2(mm) Dilution Factor: 1.0

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

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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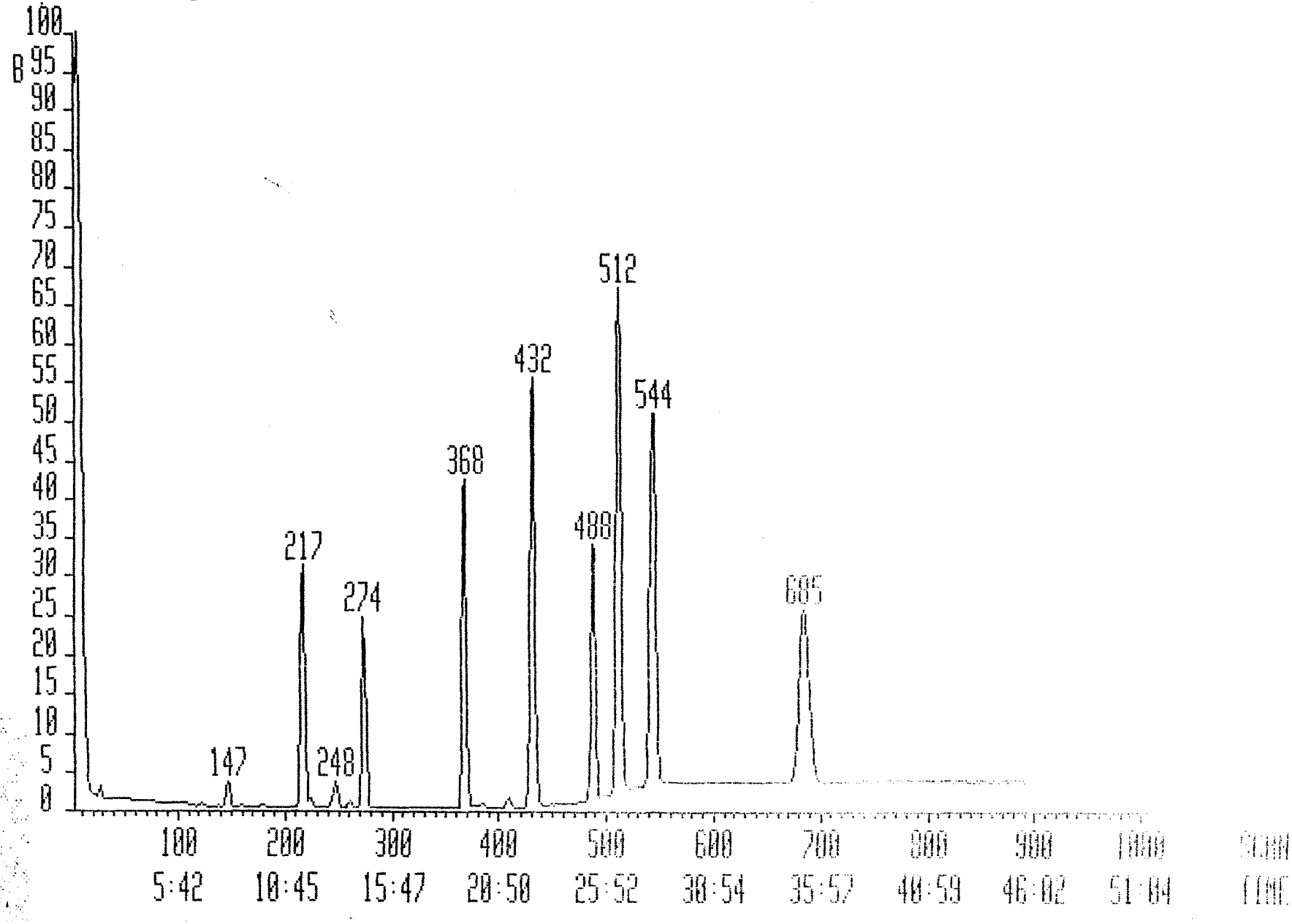
30.				

RR1141 #5-890 15-MAY-92 00:07 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 78053000

mec 5/20/92

Text: ~~PS#3~~ 17005 PS #4



Datafile: 991141 15-MAY-92 00:07
Dataset: VOA91L
Library: VOA91

Instrument: VG#2
Analyst:
Text: ~~8240~~_17005 PS#4

QRE
5/15/92
M.B.

No.	Rank	Spectrum Match	Fit	Scan Diff	Peak Area	Flgs	Scan Found	Pred	Quan m/z	Compound Name
1	99	92	99	2	14041000	bb	217	215	128	Bromochloromethane
2	98	86	99	1	22266000	bv	274	273	65	1,2-Dichloroethane-d4
~~3~~	~~55~~	1	98	0	62000	bv	25	25	50	Chloromethane
	47	0	93	4	62000	b?	29			
	46	1	93	6	16000	?b	31			
~~4~~	~~50~~	2	91	0	50000	vb	54	54	94	Bromomethane
	34	2	76	15	111	??	69			
	24	0	48	-6	4500	??	48			
~~5~~	~~50~~	0	94	-1	28500	b?*	72	73	62	Vinyl Chloride
	48	0	91	1	28500	b?	74			
	47	0	91	-3	27000	bb	70			
~~6~~	~~39~~	2	80	9	31000	??	107	98	64	Chloroethane
	33	1	63	-3	43000	b?	95			
	32	1	63	4	43000	b?	102			
7	96	84	98	1	2435000	bb	147	146	84	~~Methylene Chloride~~
8	81	54	99	-1	649846	vv*	160	161	43	Acetone
	56	14	99	6	13615	??	167			
	54	13	99	8	36923	??	169			
~~9~~	~~70~~	74	99	2	1420000	bb	179	177	~~76~~	~~Carbon Disulfide~~ NO
~~10~~	~~70~~	33	99	1	67000	bb	205	204	96	1,1-Dichloroethene
~~11~~	~~67~~	27	99	1	155000	bb*	233	232	63	1,1-Dichloroethane
	39	0	91	-15	144000	bb	217			
12	92	75	99	1	2127000	bb	248	247	96	1,2-Dichloroethene (to
~~13~~	~~90~~	71	99	1	891000	bb	261	260	83	Chloroform
~~14~~	~~38~~	26	46	2	208000	bb	277	275	62	1,2-Dichloroethane
~~15~~	~~43~~	4	84	-7	7613	??	265	272	43	2-Butanone
	41	4	84	10	5000	??	282			
	38	4	84	-15	6484	??	257			
16	85	60	99	0	77174000	bb	431	431	114	1,4-Difluorobenzene
~~17~~	~~56~~	19	88	1	53000	bb	304	303	97	1,1,1-Trichloroethane
~~18~~	~~52~~	15	82	0	33000	bb	312	312	117	Carbon Tetrachloride
19	----------	No	Trace	Found	----------			0	1	
20	----------	No	Trace	Found	----------			323	83	Bromodichloromethane
~~21~~	~~22~~	3	40	-3	4000	bb	348	351	63	1,2-Dichloropropane
	20	1	46	17	57000	bb	368			
~~22~~	~~19~~	0	36	2	3000	bb	358	356	75	cis-1,3-Dichloropropen
	16	0	36	-13	3000	bb	343			
	12	1	29	-18	1000	?b	338			
23	97	82	99	0	25609000	bb	367	367	130	Trichloroethene
~~24~~	~~24~~	1	44	1	4000	bb	384	383	129	Dibromochloromethane
	21	0	44	-7	4000	bb	376			
	15	1	34	-15	65000	bb	368			
~~25~~	~~72~~	41	95	1	204000	vb	386	385	97	1,1,2-Trichloroethane
~~26~~	~~69~~	34	97	1	295000	bb	378	377	78	Benzene
~~27~~	~~38~~	6	69	-5	5000	bb	378	383	75	trans-1,3-dichloroprop
28	----------	No	Trace	Found	----------			367	1	
29	----------	No	Trace	Found	----------			442	173	Bromoform
30	91	74	98	1	72452940	vv	543	542	117	Chlorobenzene-d5
31	84	61	99	1	38724000	vv	685	684	95	4-Bromofluorobenzene

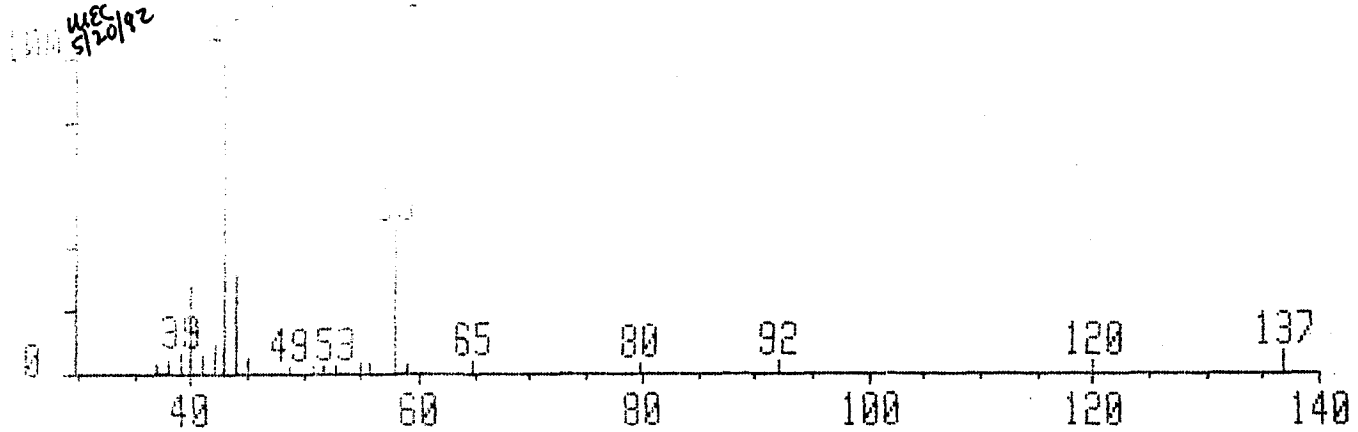
~~000056~~

32	35	11	95	1	35924270	vv	512	511	98	Toluene-d8
[illegible]	[illegible]	13	90	1	40111	??	449	448	43	4-Methyl-2-Pentanone
	93	9	90	4	19833	??	452			
	90	10	89	-1	6091	??	442			
[illegible]	[illegible]	17	85	0	40621	??*	481	481	43	2-Hexanone
	93	17	87	-8	16000	??	473			
	87	18	85	-10	0	??	471			
35	[illegible]	24	98	1	15632000	bb	488	487	164	Tetrachloroethene
[illegible]	[illegible]	[illegible]	94	3	315636	vb*	491	491	83	1,1,2,2-Tetrachloroeth
	46	3	90	[illegible]	0	??	497			
	[illegible]	9	87	-1	315636	vb	489			
[illegible]	[illegible]	[illegible]	76	2	700727	vv	517	515	91	Toluene
	92	7	81	-9	11846	??	506			
	[illegible]	9	80	11	10477	??	526			
[illegible]	[illegible]	1	63	0	110750	bb	548	546	112	Chlorobenzene
	[illegible]	1	65	4	10750	??	554			
	67	1	59	-8	1341	??	538			
[illegible]	[illegible]	7	63	0	44000	bb	604	604	106	Ethylbenzene
	31	7	53	-2	44000	bb	602			
	29	6	52	-4	4000	?b	600			
[illegible]	[illegible]	3	57	1	30000	??	728	727	104	Styrene
	32	3	58	-1	14000	??	726			
	30	3	57	-4	4000	??	723			
[illegible]	[illegible]	3	54	-3	14000	??	732	735	106	m-Xylene
	32	8	53	2	45000	??	737			
	30	8	53	-6	18000	??	729			
42	31	8	52	-3	40000	??	765	768	106	o-/p-Xylene
	31	8	53	5	25000	?b	773			
	30	8	52	-5	15000	??	763			
43	---------- No Trace Found ----------							0	-	

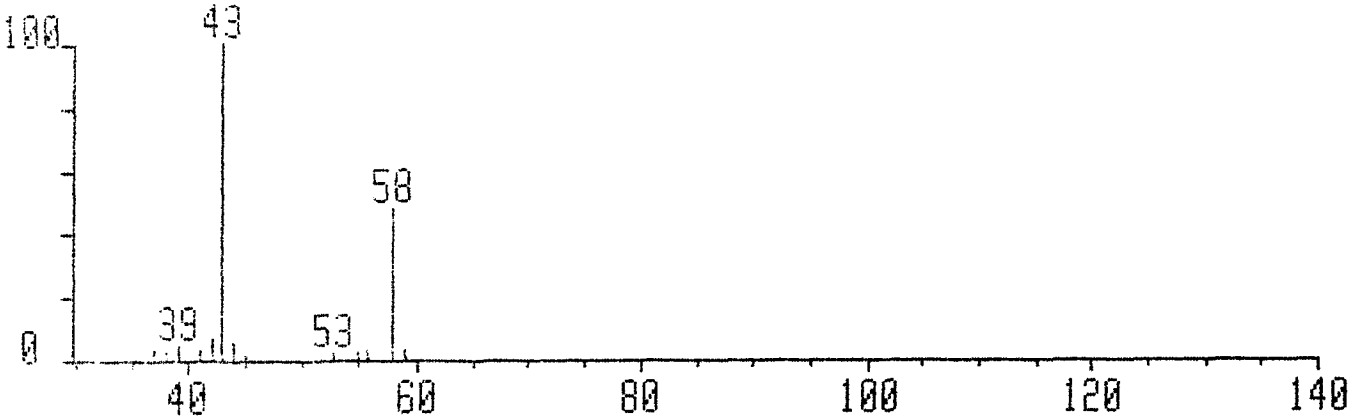
RR1141
PS#3_17005

RR1141#160 x1 Bgd=1 15-MAY-92 00:07+0:08:43 EI+
I=26mv TIC=465000 Acnt:
Text: 17005_Acetone PS#4

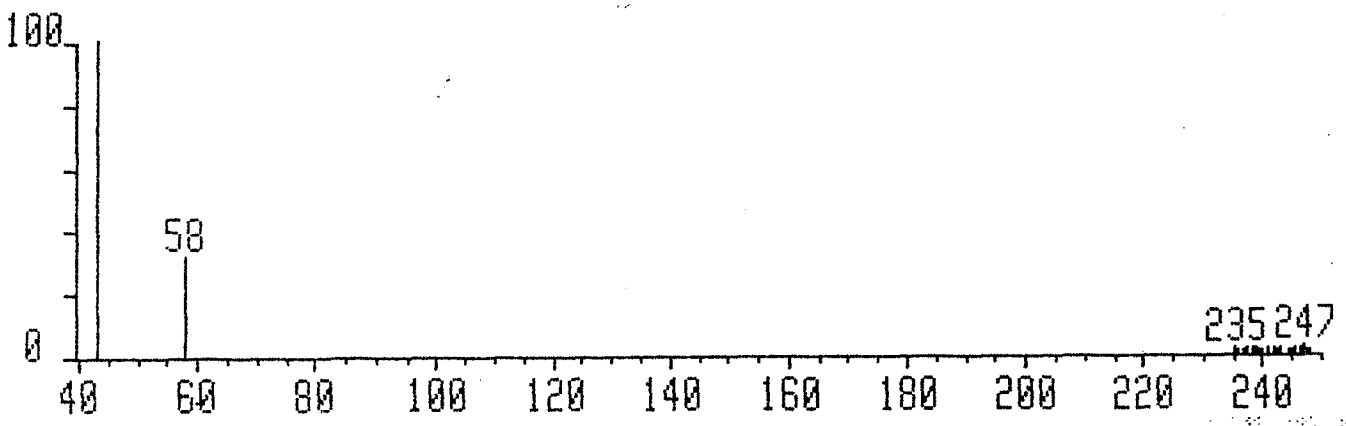
MEC 5/20/92



RR1141S#160 x1 Bgd=155 15-MAY-92 00:07+0:08:43 EI+
I=24mv TIC=290000 SU Acnt:
Text: ~~PS#3~~ 17005_Acetone PS#4

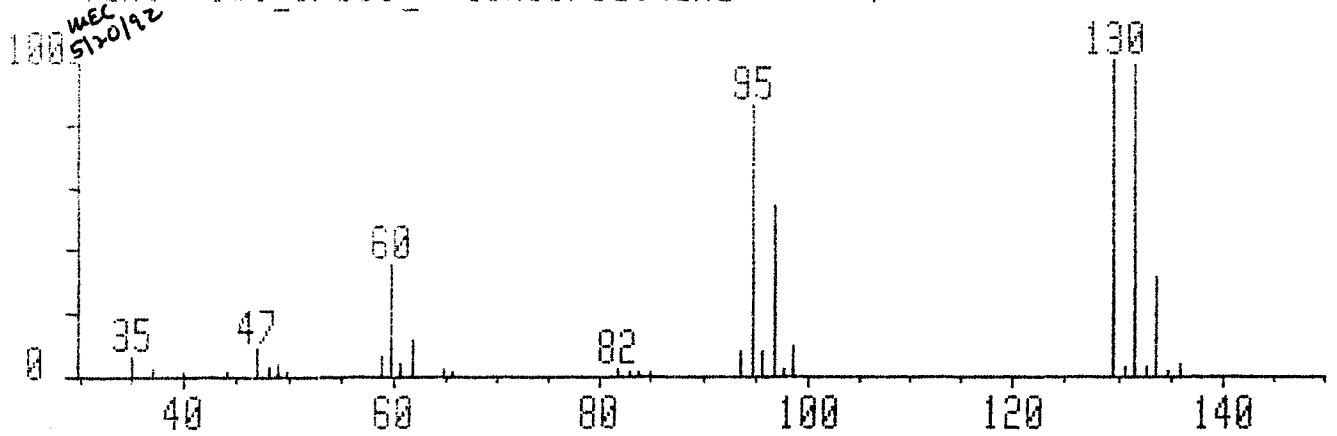


V8240#8 x1 Bgd=1 1-DEC-89 13:03+0:00:26 EI+
I=226mv TIC=11124000 Acnt:VG#2
Text:Acetone

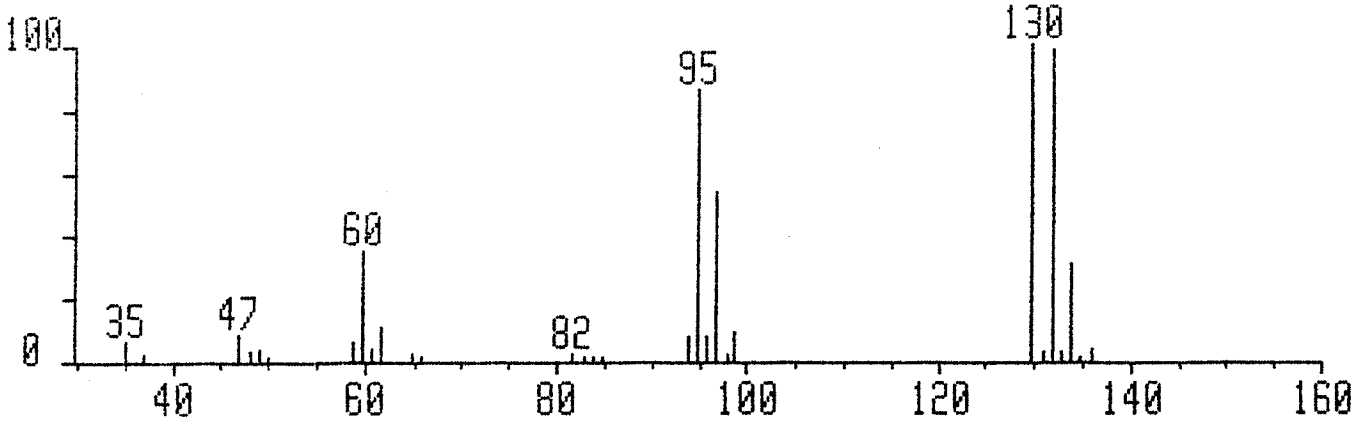


RR1141#367 x1 Bgd=356 15-MAY-92 00:07+0:19:09 EI+
I=996mv TIC=31992000 Acnt:
Text ~~PS#3~~_17005_Trichloroethene PS#4

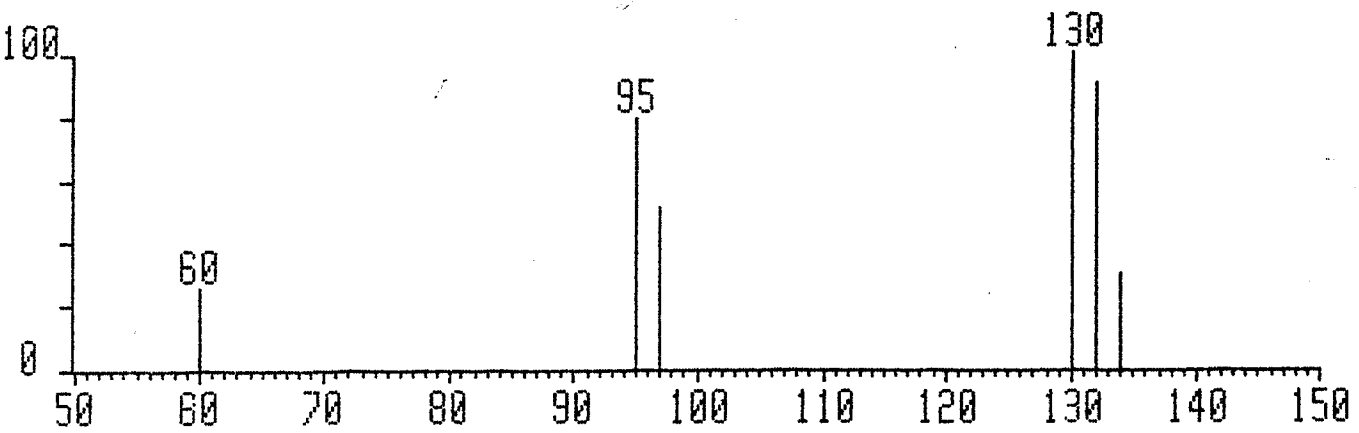
MEC 5/20/92



RR11415#367 x1 Bgd=362 15-MAY-92 00:07+0:19:09 EI+
I=996mv TIC=31873000 SU Acnt:
Text:~~PS#3~~_17005_Trichloroethene PS#4

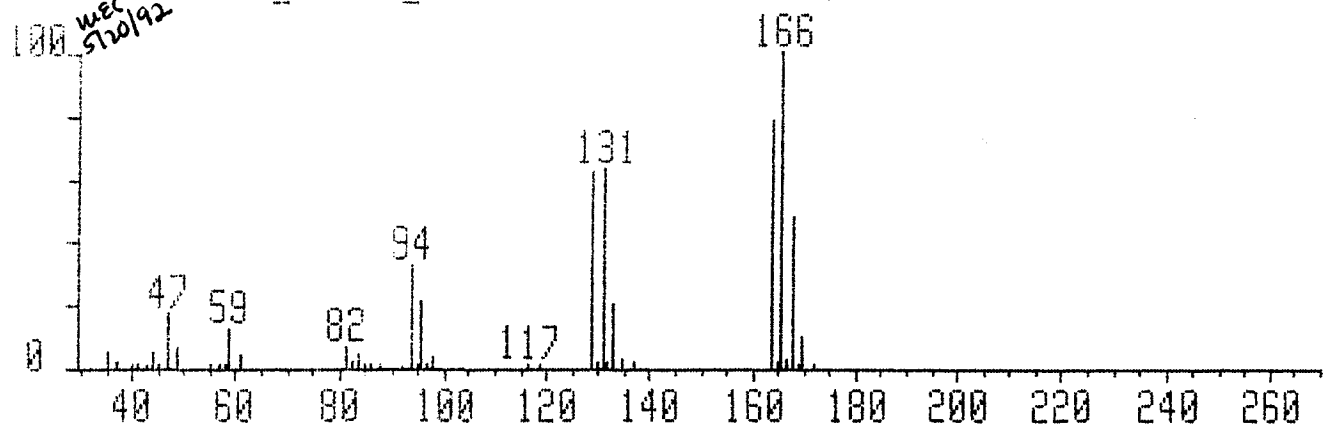


V8240#23 x1 Bgd=1 1-DEC-89 13:03+0:01:11 EI+
I=251mv TIC=11543000 Acnt:VG#2
Text:Trichloroethene

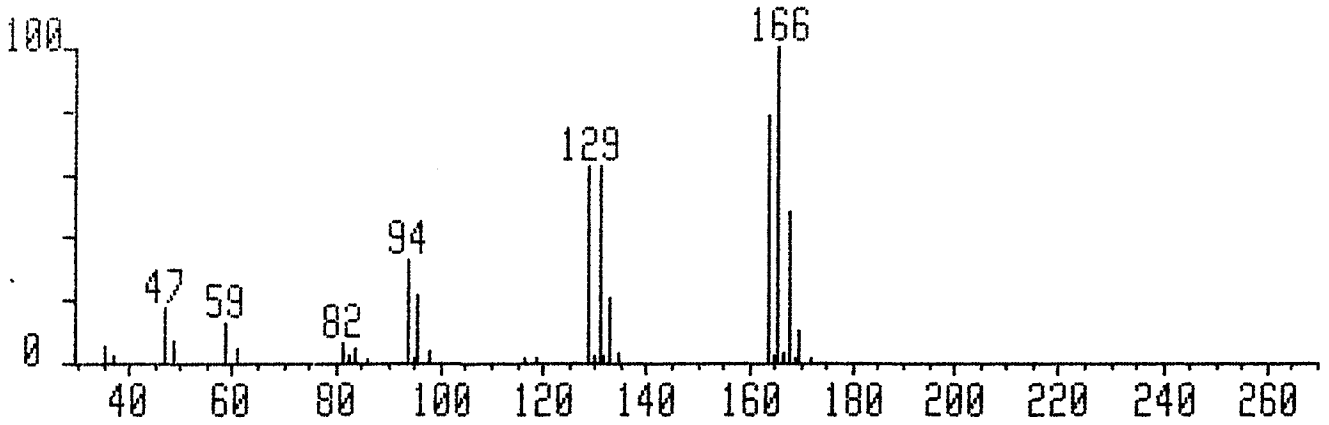


RR1141#488 x1 Bgd=467 15-MAY-92 00:07+0:25:15 EI+
I=761mv TIC=26567000 Acnt:
Text: ~~PS#3~~ 17005_Tetrachloroethene ps#4

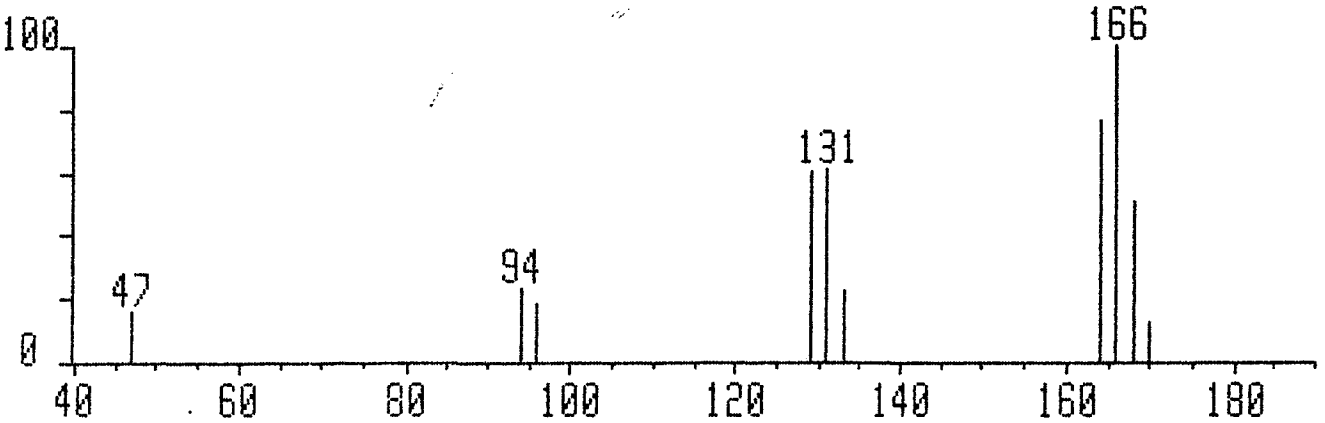
WEC 5/20/92



RR1141S#488 x1 Bgd=482 15-MAY-92 00:07+0:25:15 EI+
I=761mv TIC=25606000 SU Acnt:
Text: ~~PS#3~~ 17005_Tetrachloroethene ps#4



V8240#35 x1 Bgd=1 1-DEC-89 13:03+0:01:47 EI+
I=248mv TIC=11347000 Acnt:VG#2
Text:Tetrachloroethene



ATT RESULTS RR1141 TIC PS#4 17005

Internal Standard	Scan	Area	Conc
Bromochloromethane	217	6318	50
1,4-Difluorobenzene	431	10804	50
Chlorobenzene-d5	543	13766	50

TIC Scan	BKG Scan	IS Scan	Area	Conc

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: PACIFIC ANALYTICAL Contract:

Lab Code: PACIF Case No.: SAS No.: SGD No.:

Instrument ID: VG#2 Calibration Date(s): 05/14/92 05/14/92

Heated Purge: (Y/N) N Calibration Times: 12:39 ~~15:13~~ 16:04

mec 5/20/92

GC Column: 1%SP1000 ID: 2 (mm)

LAB FILE ID: RRF10 =RR1051 RRF20 =RR1041
RRF50=RR1061 RRF100=RR1031 RRF200=RR1021

COMPOUND	RRF10	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
Chloromethane	1.705	1.882	1.917	1.864	1.743	1.822	5.1
Bromomethane	* 0.651	0.608	0.588	0.611	0.600	0.612	3.9*
Vinyl Chloride	* 1.321	1.155	1.239	1.164	1.256	1.227	5.6*
Chloroethane	0.666	0.675	0.671	0.686	0.672	0.674	1.1
Methylene Chloride	2.287	2.005	1.979	1.781	1.697	1.950	11.7
Acetone	0.482	0.324	0.260	0.254	0.231	0.310	32.9
Carbon Disulfide	5.861	5.669	5.910	5.732	5.437	5.722	3.3
1,1-Dichloroethene	* 1.731	1.852	1.954	1.884	1.746	1.833	5.1*
1,1-Dichloroethane	* 3.335	3.638	3.849	3.745	3.585	3.630	5.3*
1,2-Dichloroethene (total)	1.882	1.903	2.031	1.979	1.766	1.912	5.3
Chloroform	* 3.189	3.450	3.633	3.539	3.200	3.402	5.9*
1,2-Dichloroethane	* 2.049	2.255	2.197	2.192	2.072	2.153	4.1*
2-Butanone	0.519	0.466	0.437	0.450	0.422	0.459	8.1
1,1,1-Trichloroethane	* 0.530	0.523	0.588	0.575	0.529	0.549	5.5*
Carbon Tetrachloride	* 0.475	0.483	0.538	0.524	0.488	0.502	5.5*
Bromodichloromethane	* 0.484	0.489	0.520	0.495	0.476	0.493	3.4*
1,2-Dichloropropane	0.326	0.340	0.357	0.373	0.371	0.353	5.7
cis-1,3-Dichloropropene	* 0.557	0.532	0.591	0.585	0.540	0.561	4.7*
Trichloroethene	* 0.414	0.415	0.451	0.417	0.395	0.418	4.8*
Dibromochloromethane	* 0.358	0.357	0.384	0.338	0.325	0.352	6.4*
1,1,2-Trichloroethane	* 0.260	0.251	0.273	0.257	0.231	0.254	6.0*
Benzene	* 1.179	1.145	1.222	1.151	1.038	1.147	5.9*
trans-1,3-dichloropropene	* 0.395	0.372	0.408	0.404	0.376	0.391	4.2*
Bromoform	* 0.214	0.216	0.232	0.222	0.209	0.219	4.0*
4-Methyl-2-Pentanone	0.233	0.204	0.215	0.216	0.195	0.213	6.7
2-Hexanone	0.162	0.133	0.149	0.139	0.133	0.143	8.6
Tetrachloroethene	* 0.362	0.377	0.394	0.368	0.361	0.372	3.7*
1,1,2,2-Tetrachloroethane	* 0.379	0.377	0.397	0.372	0.333	0.372	6.3*
Toluene	* 1.402	1.473	1.531	1.437	1.361	1.441	4.5*
Chlorobenzene	* 0.942	0.934	1.006	0.976	0.931	0.958	3.4*
Ethylbenzene	* 0.505	0.497	0.523	0.511	0.510	0.509	1.9*
Styrene	* 0.936	0.923	0.990	0.977	0.966	0.958	2.9*
Xylene (total)	* 0.575	0.596	0.619	0.617	0.602	0.602	3.0*
Toluene-d8	1.321	1.313	1.307	1.296	1.223	1.292	3.1
4-Bromofluorobenzene	* 0.581	0.596	0.589	0.581	0.555	0.580	2.7*
1,2-Dichloroethane-d4	1.886	1.999	1.840	1.886	1.753	1.873	4.8

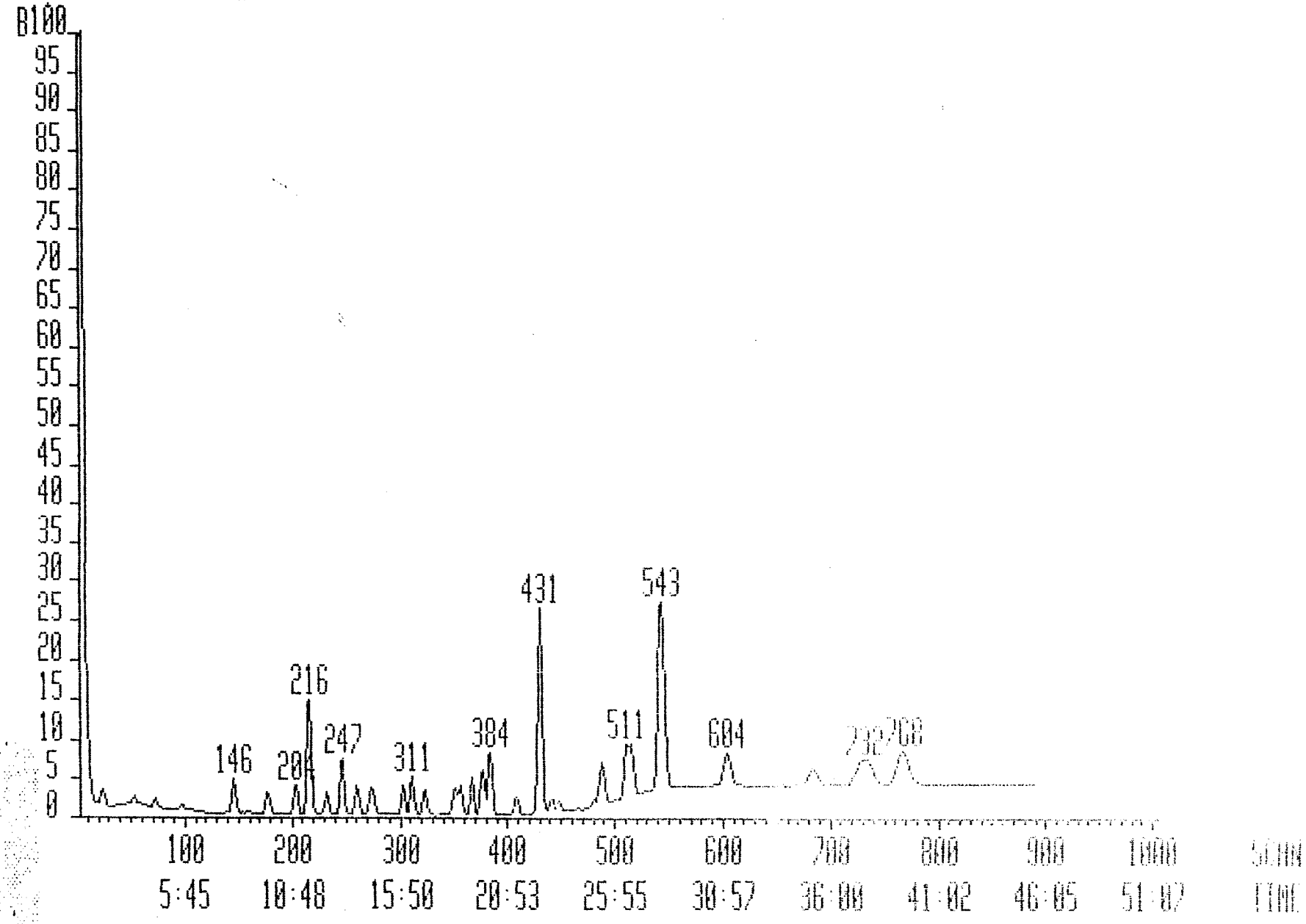
* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

FORM VI VOA

RR1051 #5-890 14-MAY-92 15:13 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 68098000

Text:VSTD010_00010



Interim Report Sample Analysis. 14-MAY-92 17:39:20

Datafile: RR1051 14-MAY-92 15:13
Database: VOA91K
Library: VOA91

Instrument: VG#2
Account:
Text: VSTD010_00010

No.	Rank	Spectrum Match	Spectrum Fit	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	Quan m/z	Compound Name
1	100	91	99	0	5646000	bb	215	215	128	Bromochloromethane
2	87	64	99	0	2130000	bv	273	273	65	1,2-Dichloroethane-d4
3	78	48	99	-1	1925579	bv	24	25	50	Chloromethane
4	70	33	99	-1	735000	bv	53	54	94	Bromomethane
5	75	43	99	-1	1492000	vb	72	73	62	Vinyl Chloride
	48	1	94	5	6000	?b	78			
	46	1	94	7	20000	b?	80			
6	70	35	98	-1	752000	bb	97	98	64	Chloroethane
	40	2	80	6	4000	?b	104			
7	96	81	98	0	2583000	bb	146	146	84	Methylene Chloride
8	78	49	99	-1	544258	bv	160	161	43	Acetone
	57	14	99	4	43129	?v	165			
	50	7	99	-9	15250	??	152			
9	99	87	99	0	6618298	bv	177	177	76	Carbon Disulfide
10	96	80	99	0	1955000	bb	204	204	96	1,1-Dichloroethene
11	90	69	99	0	3766000	bb	232	232	63	1,1-Dichloroethane
12	97	84	99	-1	4251000	bb	246	247	96	1,2-Dichloroethene (to
13	97	83	99	0	3601000	bb	260	260	83	Chloroform
14	91	75	95	0	2314000	bb	275	275	62	1,2-Dichloroethane
15	62	19	99	-1	586125	vv	271	272	43	2-Butanone
	43	1	98	-14	2042	??	258			
	43	5	84	-7	23750	??	265			
16	83	59	99	-1	30350000	bv	430	431	114	1,4-Difluorobenzene
17	97	83	99	0	3219000	bb	303	303	97	1,1,1-Trichloroethane
18	85	63	98	-1	2885000	vb	311	312	117	Carbon Tetrachloride
19	---------- No Trace Found ----------							0	1	
20	94	76	99	0	2937000	bb	323	323	83	Bromodichloromethane
21	95	79	99	0	1981000	bb	351	351	63	1,2-Dichloropropane
22	95	78	99	0	3380000	bb	356	356	75	cis-1,3-Dichloropropen
23	94	79	99	-1	2511000	bb	366	367	130	Trichloroethene
24	68	29	99	0	2176000	bb	383	383	129	Dibromochloromethane
25	76	43	99	0	1581000	bb	385	385	97	1,1,2-Trichloroethane
26	96	84	96	0	7158000	bv	377	377	78	Benzene
27	68	28	99	0	2396000	vv	383	383	75	trans-1,3-dichloroprop
28	---------- No Trace Found ----------							367	1	
29	89	67	99	0	1302000	bb	442	442	173	Bromoform
30	87	65	98	0	28056990	bv	542	542	117	Chlorobenzene-d5
31	65	25	99	-1	3261000	vv	683	684	95	4-Bromofluorobenzene
32	78	47	99	0	7414191	vb	511	511	98	Toluene-d8
33	87	65	98	0	1308378	vb	448	448	43	4-Methyl-2-Pentanone
34	77	47	97	0	911667	vv	481	481	43	2-Hexanone
	50	17	85	-7	250	??	474			
	49	18	85	-9	7368	??	472			
35	88	65	99	0	2031000	bb	487	487	164	Tetrachloroethene
36	72	35	99	0	2127857	vb	491	491	83	1,1,2,2-Tetrachloroeth
	45	4	90	8	0	??	499			
	45	3	89	-7	0	??	484			
37	83	56	99	0	7866333	vv	515	515	91	Toluene
38	66	25	99	0	5284000	vv	546	546	112	Chlorobenzene

39	76	45	98	0	2834000	vv	604	604	106	Ethylbenzene
40	70	33	98	0	3250999	bb	727	727	104	Styrene
41	70	41	95	0	3225000	bb	735	735	106	m-Xylene
42	77	10	97	0	6324941	bv	768	768	106	o-/p-Xylene
43	---------- No Trace Found ----------							0	-	

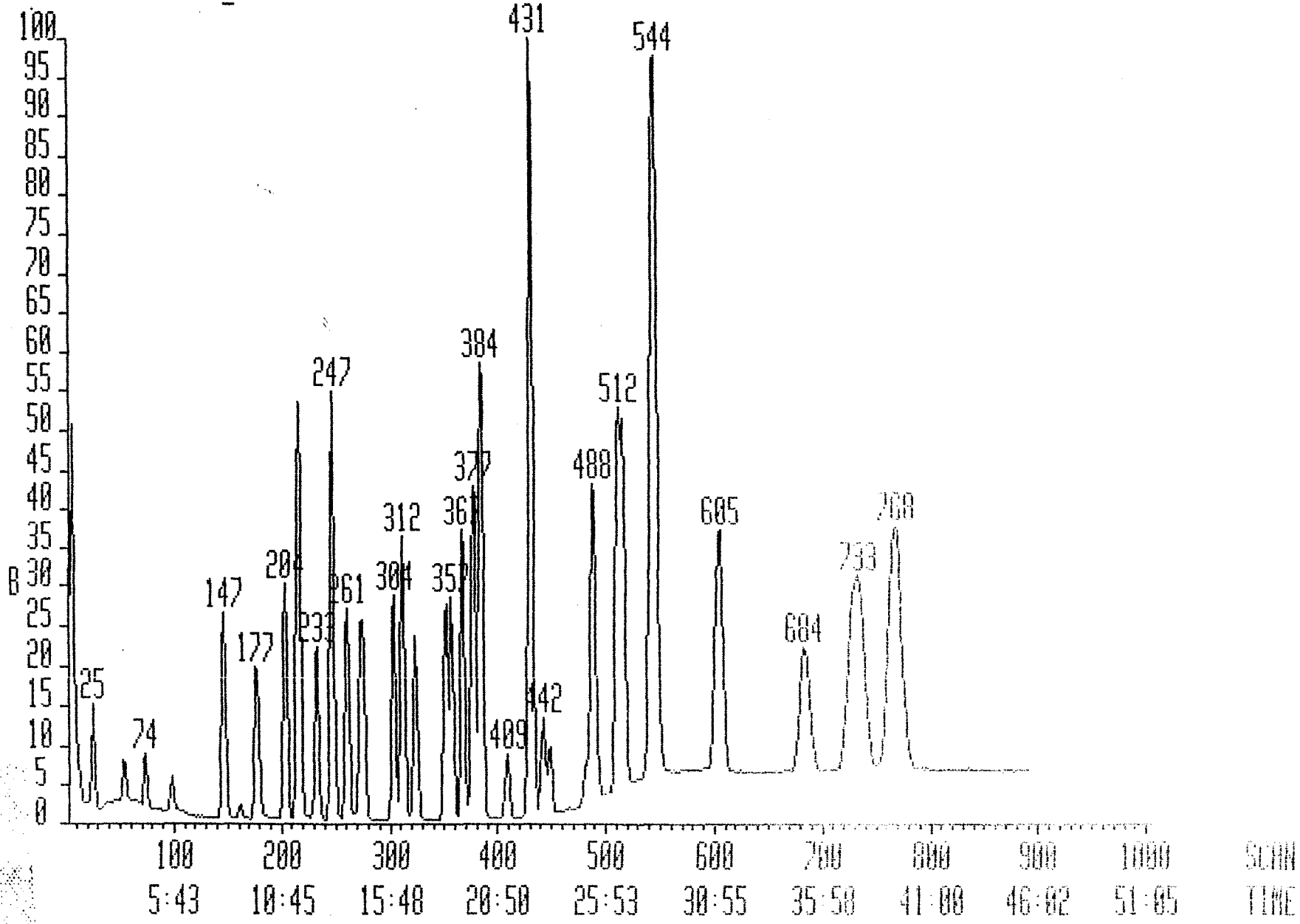
RR1051

VSTD010

RR1041 #5-890 14-MAY-92 14:22 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 41211000

Text:VSTD020_00020



Datafile: [illegible] 14-MAY-92 14:22
Database: [illegible]
Library: [illegible]

Instrument: [illegible]
Account:
Text: VST0020_00020

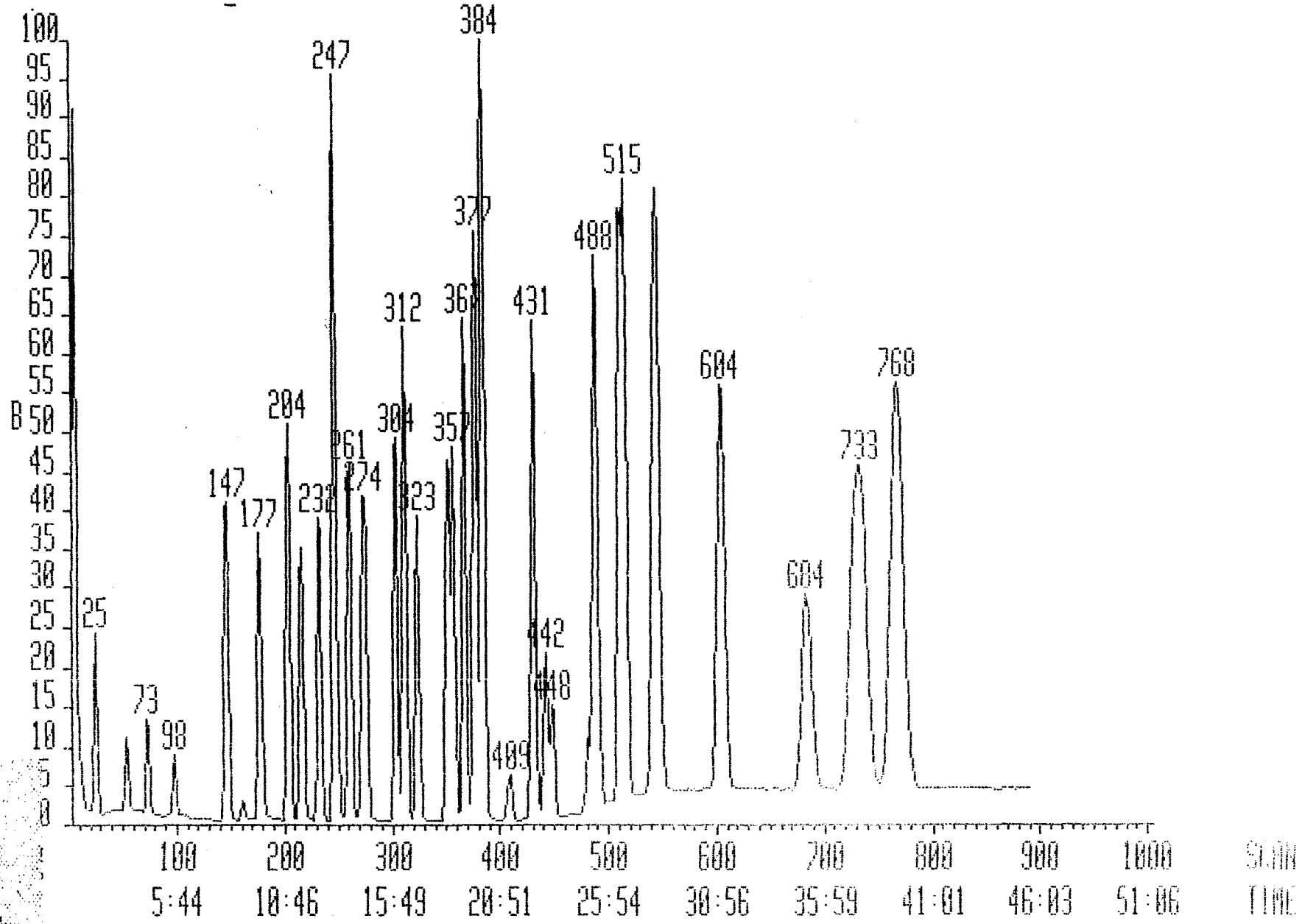
No	Rank	Spectrum Match	Fit	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	Quan m/z	Compound Name
1	100	92	99	1	11583000	bb	216	215	128	Bromochloromethane
2	90	69	99	0	9262325	bv	273	273	65	1,2-Dichloroethane-d4
3	90	70	99	0	8720000	bv	25	25	50	Chloromethane
4	86	61	99	0	2818857	vv	54	54	94	Bromomethane
5	86	63	99	1	5350001	bb*	74	73	62	Vinyl Chloride
6	87	63	99	0	3129000	bv*	98	98	64	Chloroethane
7	98	88	98	1	9291000	bv*	147	146	84	Methylene Chloride
8	87	66	99	1	1499387	bv	162	161	43	Acetone
9	100	90	99	0	26265770	bv	177	177	76	Carbon Disulfide
10	97	83	99	0	8580000	bv	204	204	96	1,1-Dichloroethene
11	90	72	99	1	16854570	bv	233	232	63	1,1-Dichloroethane
12	98	84	99	0	17632340	bv*	247	247	96	1,2-Dichloroethene (to
13	97	85	99	1	15986000	bv	261	260	83	Chloroform
14	93	81	96	1	10449000	bb	276	275	62	1,2-Dichloroethane
15	60	14	99	0	2160087	vv*	272	272	43	2-Butanone
	51	4	99	-6	14826	??	266			
	40	4	84	11	0	??	283			
16	84	59	99	0	67965000	bv	431	431	114	1,4-Difluorobenzene
17	97	84	99	1	14217000	bb	304	303	97	1,1,1-Trichloroethane
18	87	65	98	0	13118000	vv	312	312	117	Carbon Tetrachloride
19	----------		No	Trace	Found	----------		0	1	
20	93	77	99	1	13291000	bb	324	323	83	Bromodichloromethane
21	95	81	99	1	9242000	bb	352	351	63	1,2-Dichloropropane
22	93	78	99	1	14453500	bb	357	356	75	cis-1,3-Dichloropropen
23	96	80	99	0	11294000	bb	367	367	130	Trichloroethene
24	71	33	99	0	9718000	bb	383	383	129	Dibromochloromethane
25	77	46	99	1	6816000	bb	386	385	97	1,1,2-Trichloroethane
26	97	85	96	0	31128000	bv*	377	377	78	Benzene
27	67	28	99	1	10117860	vv	384	383	75	trans-1,3-dichloroprop
28	----------		No	Trace	Found	----------		367	1	
29	97	83	99	0	5881000	bb	442	442	173	Bromoform
30	86	65	98	1	60418050	bv	543	542	117	Chlorobenzene-d5
31	78	49	99	1	14395240	vv	685	684	95	4-Bromofluorobenzene
32	83	59	99	1	31740200	vv	512	511	98	Toluene-d8
33	94	81	98	1	4933575	vb	449	448	43	4-Methyl-2-Pentanone
34	89	69	98	0	3225351	vv	481	481	43	2-Hexanone
35	93	77	99	1	9122000	bb	488	487	164	Tetrachloroethene
36	78	48	99	1	9110324	vb*	492	491	83	1,1,2,2-Tetrachloroeth
37	91	73	99	1	35589200	vv	516	515	91	Toluene
38	76	45	99	1	22562190	bv	547	546	112	Chlorobenzene
39	89	67	99	0	12021000	vb	604	604	106	Ethylbenzene
40	84	59	99	0	12112300	v?	727	727	104	Styrene 22 315 150
41	85	63	98	1	14407410	vb	736	735	106	m-Xylene
42	91	72	99	0	27954500	bv	768	768	106	o-/p-Xylene ~~000069~~
43	----------		No	Trace	Found	----------		0	-	

gn. H. 5/15/92

RR1061 #5-890 14-MAY-92 16:04 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 64170000

Text:VSTD050_00050



DataFile: PR1061 14-MAY-92 16:04
Database: VOA91X
Library: VOA91

Instrument: V84E
Account:
Text: VSTD050_00050

No.	Rank	Spectrum Match	Spectrum Fit	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	Quan m/z	Compound Name
1	100	92	99	1	12065000	bb	216	215	128	Bromochloromethane
2	89	67	99	0	22196480	bv*	273	273	65	1,2-Dichloroethane-d4
3	95	77	100	0	23125790	bv*	25	25	50	Chloromethane
4	95	78	99	0	7098028	bv	54	54	94	Bromomethane
5	92	73	99	0	14946000	bb*	73	73	62	Vinyl Chloride
6	93	74	99	0	8095457	vv	98	98	64	Chloroethane
7	100	90	98	0	23881000	bv	146	146	84	Methylene Chloride
8	90	70	99	0	3135900	bv	161	161	43	Acetone
9	100	91	99	0	71307810	bv	177	177	76	Carbon Disulfide
10	98	84	99	0	23580000	bv	204	204	96	1,1-Dichloroethene
11	91	72	99	0	46439590	bv	232	232	63	1,1-Dichloroethane
12	98	85	99	0	49011590	bv	247	247	96	1,2-Dichloroethene (to
13	97	85	99	1	43838000	bv	261	260	83	Chloroform
14	95	83	97	1	26506000	bb	276	275	62	1,2-Dichloroethane
15	60	13	99	0	5277193	vv	272	272	43	2-Butanone
	48	2	99	8	32692	?b	280			
	42	2	84	-6	20115	??	266			
16	84	59	99	0	68238000	bv	431	431	114	1,4-Difluorobenzene
17	97	84	99	1	40123000	bb	304	303	97	1,1,1-Trichloroethane
18	88	66	98	0	36693000	vb	312	312	117	Carbon Tetrachloride
19	----------		No	Trace	Found	----------		0	1	
20	95	78	99	0	35484400	bv	323	323	83	Bromodichloromethane
21	96	81	99	0	24372000	bb	351	351	63	1,2-Dichloropropane
22	94	79	99	1	40355000	bb	357	356	75	cis-1,3-Dichloropropen
23	96	80	99	0	30748000	bv	367	367	130	Trichloroethene
24	70	32	99	0	26184000	bv	383	383	129	Dibromochloromethane
25	74	39	99	0	18663000	vb*	385	385	97	1,1,2-Trichloroethane
26	97	86	96	0	83394060	bv*	377	377	78	Benzene
27	67	28	99	1	27826300	vv	384	383	75	trans-1,3-dichloroprop
28	----------		No	Trace	Found	----------		367	1	
29	100	90	99	0	15806000	bb	442	442	173	Bromoform
30	86	62	98	0	61018540	bv	542	542	117	Chlorobenzene-d5
31	86	61	99	0	35947000	bb	684	684	95	4-Bromofluorobenzene
32	87	64	99	0	79760130	vv	511	511	98	Toluene-d8
33	98	85	98	0	13136500	vv*	448	448	43	4-Methyl-2-Pentanone
34	96	81	98	0	9079065	vv	481	481	43	2-Hexanone
35	93	78	99	1	24042000	bb	488	487	164	Tetrachloroethene
36	78	46	99	0	24219700	vv	491	491	83	1,1,2,2-Tetrachloroeth
37	93	78	99	1	93412790	vv	516	515	91	Toluene
38	83	56	99	0	61381610	vv	546	546	112	Chlorobenzene
39	93	74	99	0	31933000	vv	604	604	106	Ethylbenzene
40	90	69	99	0	60384350	bv	727	727	104	Styrene
41	89	71	98	1	37745600	vb	736	735	106	m-Xylene
42	96	80	99	0	43920180	?v	768	768	106	o-/p-Xylene
	93	80	99	-2	34284000	b?	766			
43	----------		No	Trace	Found	----------		0	-	

M.J. 5/15/92

72067624

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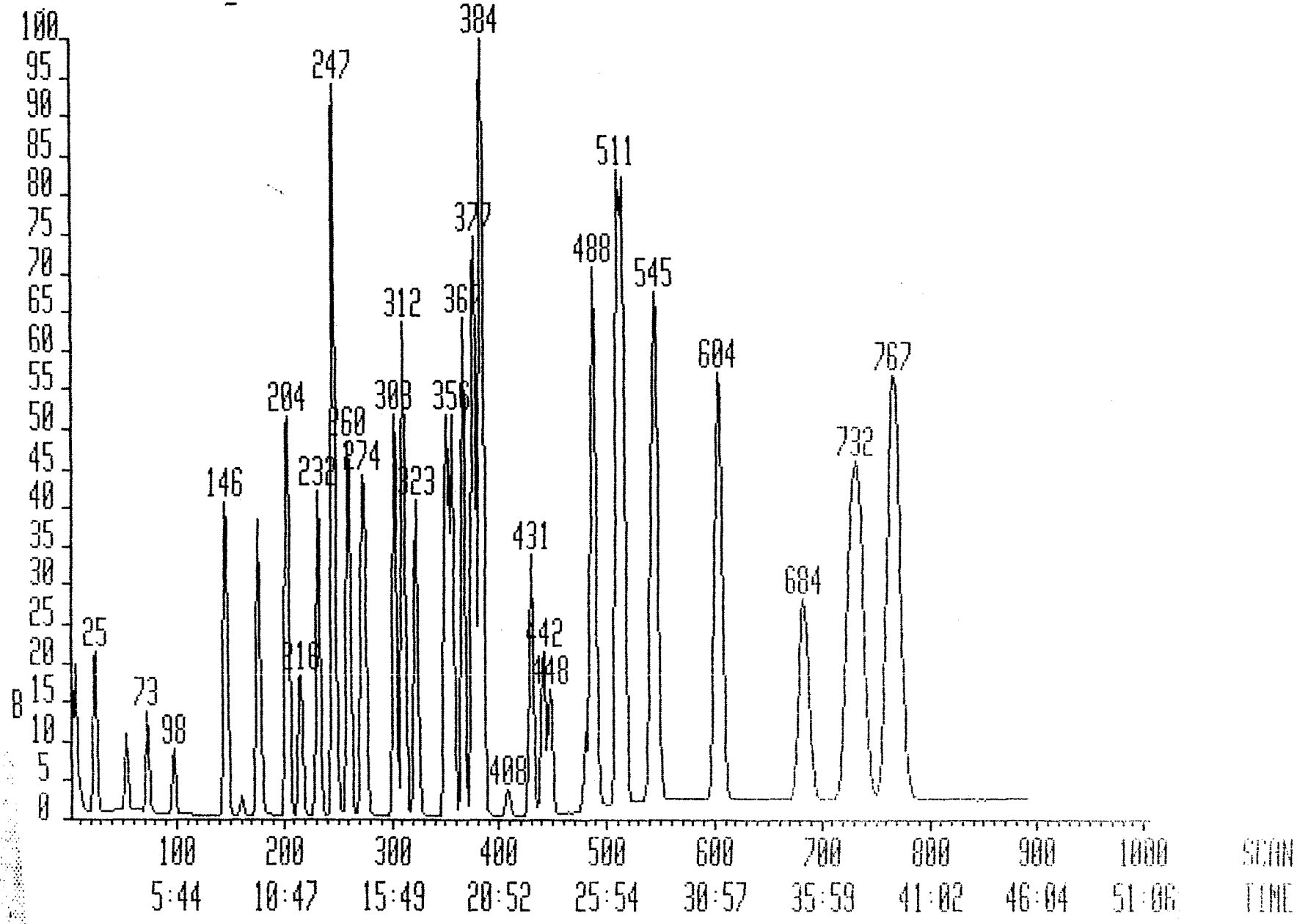
RR1031 #5-890 14-MAY-92 13:30 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 116476000

Text:VSTD100_00100



Interim Report Sample Analysis. 14-MAY-92 17:29:18

Datafile: RR1001 14-MAY-92 13:30
Database: VOA91K
Library: VOA91

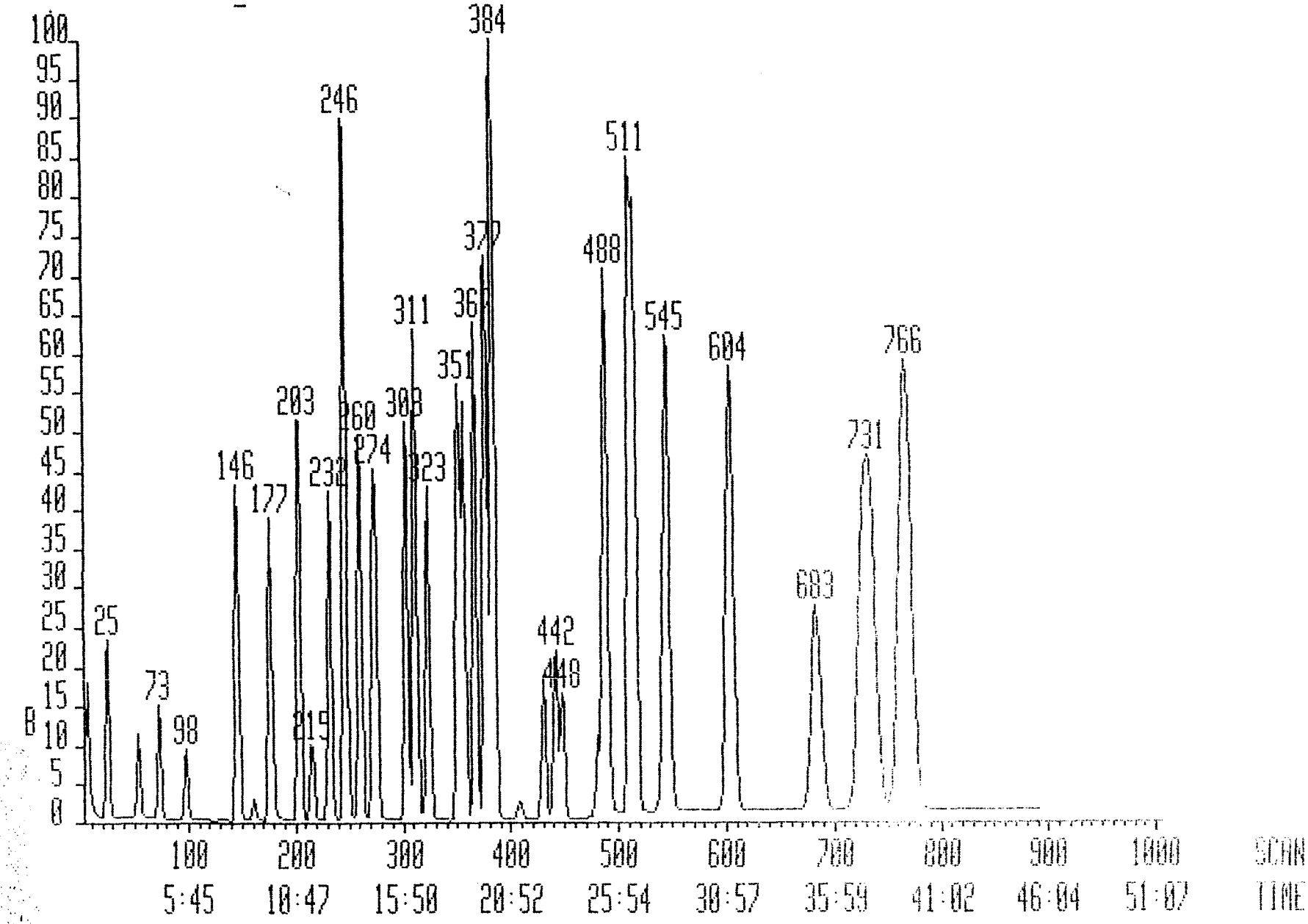
Instrument: VG#2
Account:
Text: VSTD100_00100

No.	Rank	Spectrum Match	Spectrum Fit	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	Quan m/z	Compound Name
1	100	91	99	0	11651000	bb	215	215	128	Bromochloromethane
2	89	67	99	0	43953000	vv	273	273	65	1,2-Dichloroethane-d4
3	95	79	99	0	43430000	vb*	25	25	50	Chloromethane
4	97	83	99	0	14242000	bb	54	54	94	Bromomethane
5	94	76	99	0	27134510	bv	73	73	62	Vinyl Chloride
6	95	78	99	0	15973870	bv	98	98	64	Chloroethane
7	100	89	98	0	41508000	bv	146	146	84	Methylene Chloride
8	94	77	99	0	5927363	vb	161	161	43	Acetone
9	100	91	99	0	133567000	bv	177	177	76	Carbon Disulfide
10	98	84	99	0	43911000	vv	204	204	96	1,1-Dichloroethene
11	91	72	99	0	87262140	bv*	232	232	63	1,1-Dichloroethane
12	98	84	99	0	92229650	bv*	247	247	96	1,2-Dichloroethene (to
13	98	85	99	0	82469000	bv	260	260	83	Chloroform
14	96	84	97	1	51067340	vv	276	275	62	1,2-Dichloroethane
15	63	20	99	-1	10478600	vv	271	272	43	2-Butanone
	48	4	99	10	24545	??	282			
	46	5	98	12	3909	??	284			
16	84	58	99	0	65595000	bb	431	431	114	1,4-Difluorobenzene
17	98	84	99	0	75482000	bv	303	303	97	1,1,1-Trichloroethane
18	88	66	98	0	68734000	vv	312	312	117	Carbon Tetrachloride
19	----------		No	Trace	Found	----------		0	1	
20	95	78	99	0	64922670	vv	323	323	83	Bromodichloromethane
21	97	82	99	0	48897290	vv	351	351	63	1,2-Dichloropropane
22	95	79	99	0	76796030	bb	356	356	75	cis-1,3-Dichloropropen
23	96	80	99	0	54651000	bv	367	367	130	Trichloroethene
24	68	29	99	0	44372000	bb	383	383	129	Dibromochloromethane
25	75	42	99	0	33709910	vb	385	385	97	1,1,2-Trichloroethane
26	98	86	97	0	150971200	vv*	377	377	78	Benzene
27	69	30	99	0	53019330	vv	383	383	75	trans-1,3-dichloroprop
	46	12	97	16	263	??	399			
28	----------		No	Trace	Found	----------		367	1	
29	100	90	99	0	29061000	bv	442	442	173	Bromoform
30	83	60	98	-1	59168900	bv	541	542	117	Chlorobenzene-d5
31	87	64	99	0	68793640	bv	684	684	95	4-Bromofluorobenzene
32	87	64	99	0	153399000	bv	511	511	98	Toluene-d8
33	99	87	98	0	25509800	vv	448	448	43	4-Methyl-2-Pentanone
34	97	84	98	0	16406910	vv	481	481	43	2-Hexanone
35	97	82	99	0	43499000	bv	487	487	164	Tetrachloroethene
36	80	50	99	0	44011000	vb*	491	491	83	1,1,2,2-Tetrachloroeth
37	94	76	99	0	170037300	vv	515	515	91	Toluene
38	88	66	99	0	115537700	vv	546	546	112	Chlorobenzene
39	94	77	99	0	60431260	vb	604	604	106	Ethylbenzene
40	91	72	99	0	115638800	bv	727	727	104	Styrene
	91	76	99	-2	115638800	bv	725			
41	91	73	98	0	73010500	bb	735	735	106	m-Xylene
42	97	82	99	0	139652100	bv	768	768	106	o-/p-Xylene
43	----------		No	Trace	Found	----------		0	-	

RR1021 #5-890 14-MAY-92 12:39 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 220472432

Text:VSTD200_00200



Datafile: RR1021 14-MAY-92 12:39
Database: VOA91K
Library: VOA91

Instrument: VG#2
Account:
Text: VSTD200_00800

No.	Rank	Spectrum Match	Spectrum Fit	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	Quan m/z	Compound Name
1	100	91	99	0	12135000	bb	215	215	128	Bromochloromethane
2	88	66	99	0	85100980	vb*	273	273	65	1,2-Dichloroethane-d4
3	96	80	99	0	84628190	bv	25	25	50	Chloromethane
4	99	87	99	0	29111010	vv	54	54	94	Bromomethane
5	95	79	99	0	60975840	bv	73	73	62	Vinyl Chloride
6	96	80	99	0	32601000	vv*	98	98	64	Chloroethane
7	100	89	98	0	82359000	bv	146	146	84	Methylene Chloride
8	95	79	99	0	11194440	vv	161	161	43	Acetone
9	100	91	99	0	263904800	bv	177	177	76	Carbon Disulfide
10	96	83	99	-1	84745010	vv*	203	204	96	1,1-Dichloroethene
11	91	72	99	0	174039000	bv*	232	232	63	1,1-Dichloroethane
12	97	85	99	-1	171441100	bv*	246	247	96	1,2-Dichloroethene (to
13	99	86	99	0	155351800	bv	260	260	83	Chloroform
14	96	85	96	1	100585600	vb*	276	275	62	1,2-Dichloroethane
15	62	18	99	-1	20505000	vv*	271	272	43	2-Butanone
	32	0	70	-11	102000	vv	261			
16	83	57	99	0	68181000	bv	431	431	114	1,4-Difluorobenzene
17	98	84	99	0	144158000	bv	303	303	97	1,1,1-Trichloroethane
18	87	67	98	-1	133012000	vv	311	312	117	Carbon Tetrachloride
19	---------- No Trace Found ----------							0	1	
20	95	78	99	0	129851400	vv	323	323	83	Bromodichloromethane
21	97	82	99	0	101270600	vv	351	351	63	1,2-Dichloropropane
22	95	79	99	0	147156100	bb	356	356	75	cis-1,3-Dichloropropen
23	95	81	99	-1	107629000	bv	366	367	130	Trichloroethene
24	68	29	99	0	88761000	bv	383	383	129	Dibromochloromethane
25	75	42	99	0	63090000	vv	385	385	97	1,1,2-Trichloroethane
26	98	86	97	0	283139200	vv*	377	377	78	Benzene
27	70	31	99	0	102662800	vv*	383	383	75	trans-1,3-dichloroprop
28	---------- No Trace Found ----------							367	1	
29	100	91	99	0	57132000	bv	442	442	173	Bromoform
30	79	51	98	-1	60568460	bv*	541	542	117	Chlorobenzene-d5
31	88	67	99	-1	134525500	vv	683	684	95	4-Bromofluorobenzene
32	88	65	99	0	296313900	vv	511	511	98	Toluene-d8
33	99	87	98	0	47179290	vv	448	448	43	4-Methyl-2-Pentanone
34	98	86	98	0	32186670	vb	481	481	43	2-Hexanone
35	97	83	99	0	87346000	bb*	487	487	164	Tetrachloroethene
36	80	50	99	0	80798200	vv	491	491	83	1,1,2,2-Tetrachloroeth
37	95	81	99	1	329848300	vv	516	515	91	Toluene
38	91	72	99	0	225532900	vv	546	546	112	Chlorobenzene
39	95	78	99	0	123595000	vv	604	604	106	Ethylbenzene
40	92	75	99	-1	233960600	bv	726	727	104	Styrene
41	94	77	98	0	145791100	bb	735	735	106	m-Xylene
42	97	84	99	-1	283371800	bv	767	768	106	o-/p-Xylene
43	---------- No Trace Found ----------							0	-	

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: PACIFIC ANALYTICAL Contract:

Lab Code: PACIF Case No.: SAS No.: SDG No.:

Instrument ID: VG#2 Calibration Date: 05/14/92 Time: 1859

Lab File ID: RR1081 Init. Calib. Date(s): 05/14/91 05/14/92

Heated Purge: (Y/N) N Init. Calib. Times: 12:39 ~~15:13~~ 16:04 MRC 5/20/92

GC Column: 1%SP1000 ID: 2 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chloromethane	1.822	1.895		-4.0	
Bromomethane	0.612	0.589	0.100	4.0	25.0
Vinyl Chloride	1.227	1.132	0.100	8.0	25.0
Chloroethane	0.674	0.673		0.0	
Methylene Chloride	1.950	1.935		1.0	
Acetone	0.310	0.245		21.0	
Carbon Disulfide	5.722	5.746		0.0	
1,1-Dichloroethene	1.833	1.868	0.100	-2.0	25.0
1,1-Dichloroethane	3.630	3.633	0.200	0.0	25.0
1,2-Dichloroethene (total)	1.912	2.050		-7.0	
Chloroform	3.402	3.606	0.200	-6.0	25.0
1,2-Dichloroethane	2.153	2.194	0.100	-2.0	25.0
2-Butanone	0.459	0.445		3.0	
1,1,1-Trichloroethane	0.549	0.592	0.100	-8.0	25.0
Carbon Tetrachloride	0.502	0.534	0.100	-6.0	25.0
Bromodichloromethane	0.493	0.529	0.200	-7.0	25.0
1,2-Dichloropropane	0.353	0.352		0.0	
cis-1,3-Dichloropropene	0.561	0.580	0.200	-3.0	25.0
Trichloroethene	0.418	0.457	0.300	-9.0	25.0
Dibromochloromethane	0.352	0.377	0.100	-7.0	25.0
1,1,2-Trichloroethane	0.254	0.275	0.100	-8.0	25.0
Benzene	1.147	1.208	0.500	-5.0	25.0
trans-1,3-dichloropropene	0.391	0.417	0.100	-7.0	25.0
Bromoform	0.219	0.232	0.100	-6.0	25.0
4-Methyl-2-Pentanone	0.213	0.209		2.0	
2-Hexanone	0.143	0.135		6.0	
Tetrachloroethene	0.372	0.385	0.200	-3.0	25.0
1,1,2,2-Tetrachloroethane	0.372	0.386	0.500	-4.0	25.0
Toluene	1.441	1.487	0.400	-3.0	25.0
Chlorobenzene	0.958	0.992	0.500	-4.0	25.0
Ethylbenzene	0.509	0.523	0.100	-3.0	25.0
Styrene	0.958	0.964	0.300	-1.0	25.0
Xylene (total)	0.602	0.617	0.300	-2.0	25.0
Toluene-d8	1.292	1.228		5.0	
4-Bromofluorobenzene	0.580	0.561	0.200	3.0	25.0
1,2-Dichloroethane-d4	1.873	1.784		5.0	

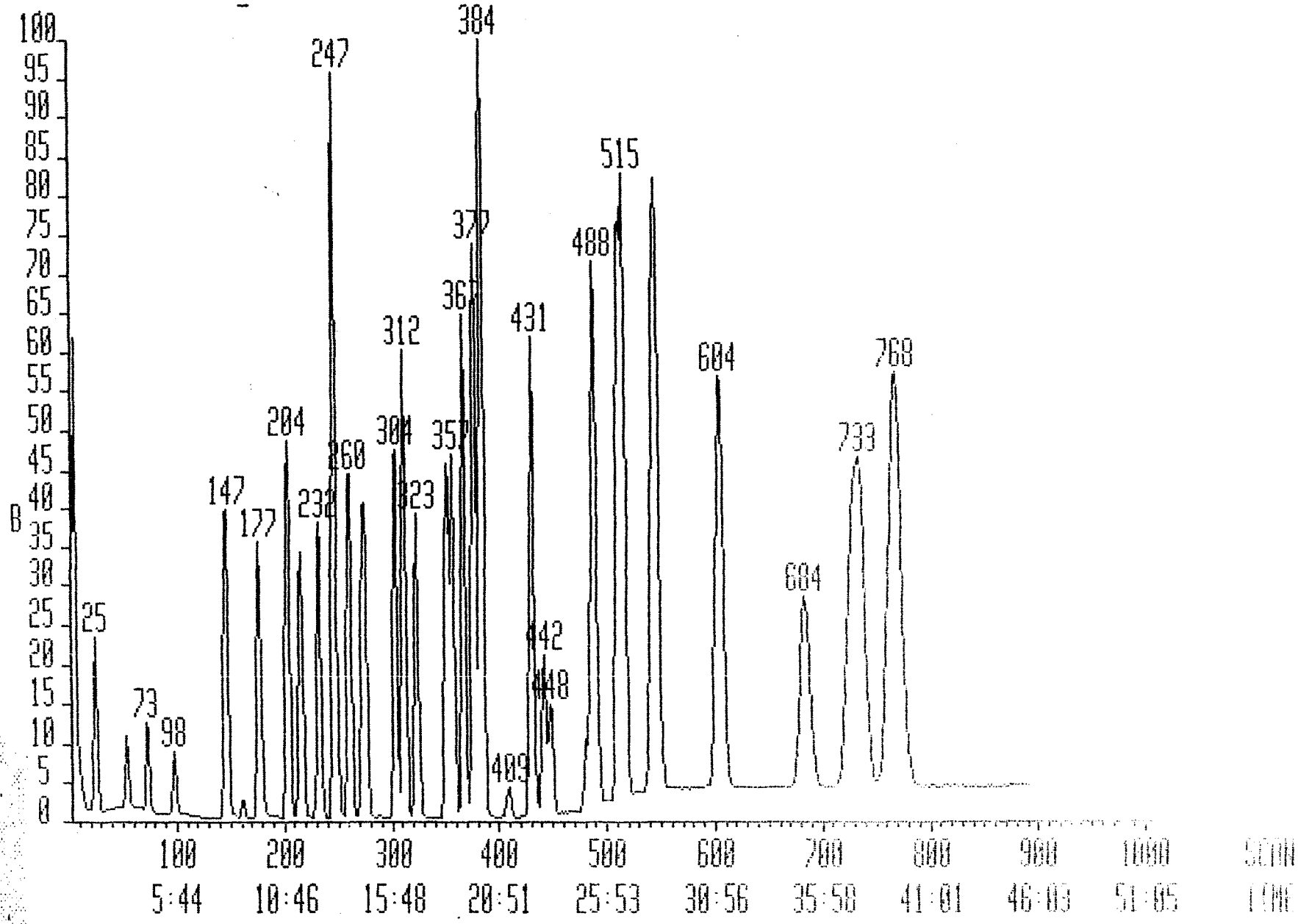
All other compounds must meet a minimum RRF of 0.010.

FORM VII VOA

RR1081 #5-890 14-MAY-92 18:59 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 69559000

Text:VSTD0050_00050



Interim Report Sample Analysis, 15-MAY-92 09:39:43

Datafile: RR1081 14-MAY-92 18:59
Database: VOA91L
Library: VOA91

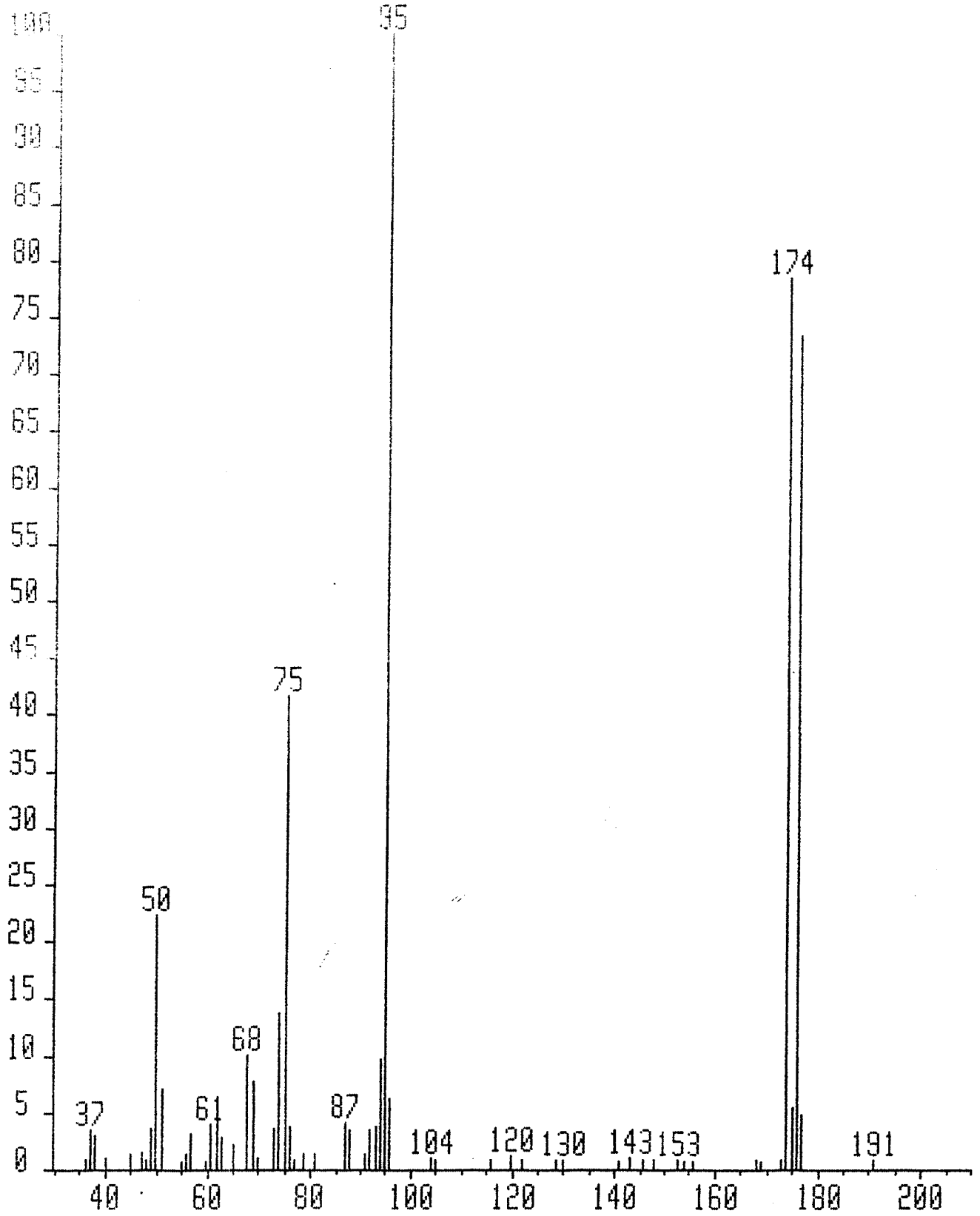
QRE
5/15/92
M.A.

Instrument: VG#2
Account:
Text: VSTD0050_CC050

No.	Rank	Spectrum Match	Spectrum Fit	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	Quan m/z	Compound Name
1	100	92	99	1	13072000	bb	216	215	128	Bromochloromethane
2	89	68	99	0	23319000	bv	273	273	65	1,2-Dichloroethane-d4
3	94	77	99	0	24773500	bb	25	25	50	Chloromethane
4	95	78	99	0	7705600	vb	54	54	94	Bromomethane
5	91	72	99	0	14791400	bv	73	73	62	Vinyl Chloride
6	93	74	99	0	8797498	bv*	98	98	64	Chloroethane
7	100	89	98	0	25296170	bv*	146	146	84	Methylene Chloride
8	91	74	99	1	3199800	vv	162	161	43	Acetone
9	100	91	99	0	75106540	bv	177	177	76	Carbon Disulfide
10	98	84	99	0	24417000	bv	204	204	96	1,1-Dichloroethene
11	91	72	99	0	47489410	bv	232	232	63	1,1-Dichloroethane
12	98	85	99	0	53594340	bv*	247	247	96	1,2-Dichloroethene (to
13	99	86	99	0	47140000	bv	260	260	83	Chloroform
14	96	84	97	1	28680000	bv*	276	275	62	1,2-Dichloroethane
15	60	13	99	0	5812295	bv*	272	272	43	2-Butanone
	49	2	97	-6	28588	b?	266			
	46	6	97	12	16471	??	284			
16	84	59	99	0	71900000	bv	431	431	114	1,4-Difluorobenzene
17	97	84	99	1	42545000	bb	304	303	97	1,1,1-Trichloroethane
18	88	66	98	0	38371000	vb	312	312	117	Carbon Tetrachloride
19	----------		No	Trace	Found	----------		0	1	
20	95	78	99	0	38035960	bv	323	323	83	Bromodichloromethane
21	96	81	99	0	25306570	bv	351	351	63	1,2-Dichloropropane
22	94	79	99	1	41725000	bb	357	356	75	cis-1,3-Dichloropropen
23	96	81	99	0	32879000	bv	367	367	130	Trichloroethene
24	70	31	99	0	27086000	bb	383	383	129	Dibromochloromethane
25	75	41	99	0	19763000	vb*	385	385	97	1,1,2-Trichloroethane
26	97	86	96	0	86841000	bv*	377	377	78	Benzene
27	67	27	99	1	29954600	vv*	384	383	75	trans-1,3-dichloroprop
28	----------		No	Trace	Found	----------		367	1	
29	100	90	99	0	16671000	bv	442	442	173	Bromoform
30	86	63	98	0	67900010	vv	542	542	117	Chlorobenzene-d5
31	86	61	99	0	38074660	bv	684	684	95	4-Bromofluorobenzene
32	87	64	99	0	83385030	vv	511	511	98	Toluene-d8
33	98	86	98	0	14167920	vv	448	448	43	4-Methyl-2-Pentanone
34	95	80	98	0	9187105	vb	481	481	43	2-Hexanone
35	97	83	99	0	26147000	bb	487	487	164	Tetrachloroethene
36	78	47	99	0	26231510	vv	491	491	83	1,1,2,2-Tetrachloroeth
37	93	78	99	1	100954000	vv	516	515	91	Toluene
38	83	56	99	0	67360000	bv	546	546	112	Chlorobenzene
39	92	75	99	1	35503530	vv	605	604	106	Ethylbenzene
40	90	69	99	0	36811430	v?	727	727	104	Styrene 65 475 832
41	90	72	98	1	41894200	vb	736	735	106	m-Xylene
42	94	80	99	-1	44988350	b?	767	768	106	o-/p-Xylene 79 493 200
	94	80	99	1	41303220	?v	769			
43	----------		No	Trace	Found	----------		0	-	

M.A.
5/15/92

BFB70MS#1 x1 Bgd=670 20-MAY-92 10:45+0:35:04 EI+
I=87mv TIC=2523000 AV SU Acnt:
Test:05/14/92 _TIME_1143_ RR1011_AVE_(682-684)-



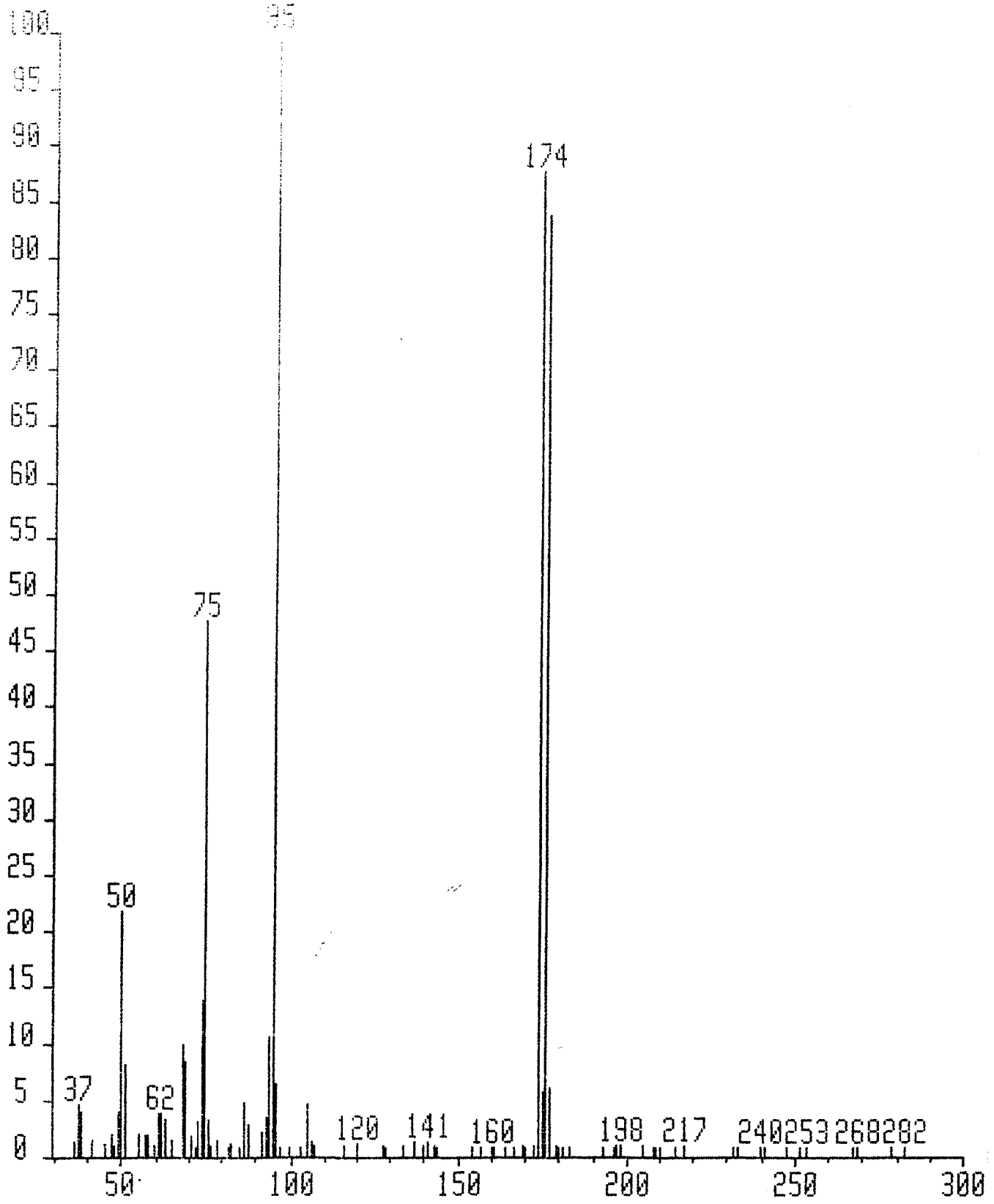
BFBTUNS#1 x1 Bgd=670 20-MAY-92 10:45+0:35:04 VG#2 EI+ 1.1
BpM=95 I=87mv Hm=207 TIC=2623000 AV SU Acnt: Sys:VOA91
Text:05/14/92 _TIME_1143 _ RR1011_AVE_(682-684)-SCPT=0 Cal:

Mass	Abs Ht	% Mass
36	4000	0.7
37	19000	3.3
38	16000	2.8
39	2000	0.3
40	5000	0.9
41	1000	0.2
42	2000	0.3
45	7000	1.2
47	8000	1.4
48	4000	0.7
49	20000	3.5
50	127000	22.1
51	40000	7.0
52	1000	0.2
55	3000	0.5
56	7000	1.2
57	17000	3.0
60	3000	0.5
61	22000	3.8
62	24000	4.2
63	15000	2.6
64	1000	0.2
65	11000	1.9
68	57000	9.9
69	44000	7.7
70	5000	0.9
72	1000	0.2
73	20000	3.5
74	78000	13.6
75	239000	41.6
76	21000	3.7
77	4000	0.7
78	2000	0.3
79	7000	1.2
81	7000	1.2
82	2000	0.3
86	1000	0.2
87	23000	4.0
88	19000	3.3
89	1000	0.2
91	7000	1.2
92	19000	3.3
93	21000	3.7
94	55000	9.6
95	574000	100.0
96	35000	6.1
98	1000	0.2
101	1000	0.2
103	1000	0.2
104	5000	0.9
105	4000	0.7
106	1000	0.2
107	1000	0.2
109	2000	0.3
115	1000	0.2
116	4000	0.7

BFBTUNS#1 x1 Bq4=670 20-MAY-92 10:45+0:35:04 VG#2 EI+ 1.2
BpM=95 I=87mv Hm=207 TIC=2623000 AV SU Acnt: Sys:VOA91
Text:05/14/92 _TIME_1140 _ RR1011_AVE_(682-684)-SCPT=0 Cal:

Mass	Abs. Ht	% Mass
117	1000	0.2
118	1000	0.2
119	1000	0.2
120	6000	1.0
121	1000	0.2
126	4000	0.7
128	1000	0.2
129	4000	0.7
130	4000	0.7
133	1000	0.2
138	2000	0.3
140	1000	0.2
141	3000	0.5
143	5000	0.9
146	4000	0.7
148	4000	0.7
151	1000	0.2
152	1000	0.2
153	4000	0.7
154	3000	0.5
155	1000	0.2
156	3000	0.5
168	4000	0.7
169	3000	0.5
173	4000	0.7
174	450000	78.4
175	30000	5.2
176	421000	73.3
177	27000	4.7
191	4000	0.7
207	2000	0.3

BFBTUNS#1 x1 Bgd=670 20-MAY-92 09:27+0:35:06 EI+
I=95mv TIC=3316000 AV SU Acnt:
Tar:05/14/92 _TIME_1656_ RR1071_AVE_(683-685)-



BFBTUNS#1 x1 Bgd=670 20-MAY-92 09:27+0:35:06 VG#2 EI+ 1.1
BpM=95 I=95mv Hm=291 TIC=3316000 AV SU Acnt: Sys:VOA91
Text:05/14/92 _TIME_1656 _ RR1071_AVE_(683-685)-SCPT=0 Cal:

Mass	Abs. Ht	% Mass
36	7000	1.1
37	28000	4.5
38	24000	3.8
39	3000	0.5
41	8000	1.3
44	2000	0.3
45	6000	1.0
47	11000	1.8
48	5000	0.8
49	24000	3.8
50	136000	21.8
51	50000	8.0
52	1000	0.2
54	1000	0.2
55	11000	1.8
57	10000	1.6
58	10000	1.6
59	2000	0.3
60	5000	0.8
61	23000	3.7
62	23000	3.7
63	20000	3.2
64	3000	0.5
65	8000	1.3
66	3000	0.5
68	61000	9.8
69	52000	8.3
70	2000	0.3
71	10000	1.6
72	4000	0.6
73	19000	3.0
74	86000	13.8
75	297000	47.5
76	20000	3.2
77	5000	0.8
78	1000	0.2
79	8000	1.3
80	3000	0.5
81	3000	0.5
82	4000	0.6
83	6000	1.0
85	4000	0.6
87	29000	4.6
88	17000	2.7
89	3000	0.5
90	2000	0.3
91	3000	0.5
92	12000	1.9
93	21000	3.4
94	66000	10.6
95	625000	100.0
96	39000	6.2
97	4000	0.6
99	1000	0.2
100	4000	0.6
103	4000	0.6

BFBTUNS#1 (1 Bgd=670 20-MAY-92 09:27+0:35:06 VG#2 EI+ 1.2
BpM=95 I=95mv Hm=291 TIC=3316000 AV SU Acnt: Sys:VOA91
Text:05/14/92 _TIME_1656 _ RR1071_AVE_(683-685)-SCPT=0 Cal:

Mass	Abs. Ht	% Mass
105	28000	4.5
106	7000	1.1
107	5000	0.8
109	1000	0.2
110	2000	0.3
111	1000	0.2
113	1000	0.2
115	2000	0.3
116	5000	0.8
117	1000	0.2
118	1000	0.2
119	3000	0.5
120	6000	1.0
121	2000	0.3
125	1000	0.2
128	5000	0.8
129	4000	0.6
132	3000	0.5
134	5000	0.8
136	1000	0.2
137	7000	1.1
139	1000	0.2
140	5000	0.8
141	7000	1.1
143	5000	0.8
144	4000	0.6
148	1000	0.2
149	2000	0.3
153	2000	0.3
154	4000	0.6
155	1000	0.2
157	4000	0.6
160	4000	0.6
161	4000	0.6
164	4000	0.6
166	3000	0.5
167	4000	0.6
168	3000	0.5
169	5000	0.8
170	4000	0.6
173	5000	0.8
174	547000	87.5
175	35000	5.6
176	523000	83.7
177	37000	5.9
178	3000	0.5
179	5000	0.8
180	4000	0.6
181	4000	0.6
183	4000	0.6
184	3000	0.5
186	3000	0.5
189	3000	0.5
192	3000	0.5
193	4000	0.6
196	4000	0.6

BFBTUNS#1 :1 Bgd=670 20-MAY-92 09:27+0:35:06 VG#2 EI+ 1.3
BpM=95 (=95mv Hm=29: TIC=3016000 AV SU Acnt: Sys:VOA91
Text:05/14/92 _TIME_1656 _ RR1071_AVE_(683-685)-SCPT=0 Cal:

Mass	Abs Int	% Mass
197	5000	0.8
198	3000	0.8
199	3000	0.5
205	5000	0.8
206	3000	0.5
207	1000	0.2
208	4000	0.6
209	4000	0.6
210	4000	0.6
213	3000	0.5
215	4000	0.6
216	3000	0.5
217	5000	0.8
225	3000	0.5
229	3000	0.5
232	4000	0.6
233	4000	0.6
240	4000	0.6
241	4000	0.6
247	4000	0.6
251	4000	0.6
253	4000	0.6

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMP

VBLK32

Lab Name: PACIFIC ANALYTICAL Contract:

Lab Code: PACIF Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 00000

Sample wt/vol: 5.0(g/mL) ML Lab File ID: RR1091

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

% Moisture: not dec. 0 Date Analyzed: 05/14/92

GC Column: 1%SP1000 ID: 2 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	8	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-35-3	1,1-Dichloroethane	10	U
156-60-5	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-dichloropropene	10	U
75-25-2	Bromoform	10	U
591-78-6	4-Methyl-2-Pentanone	10	U
108-10-1	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK32

Lab Name: PACIFIC ANALYTICAL Contract:

Lab Code: PACIF Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 00000

Sample wt/vol: 5.0(g/mL) ML Lab File ID: RR1091

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

% Moisture: not dec. 0 Date Analyzed: 05/14/92

GC Column: 1%SP1000 ID: 2(mm) Dilution Factor: 1.0

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

Number TICs Found: 0

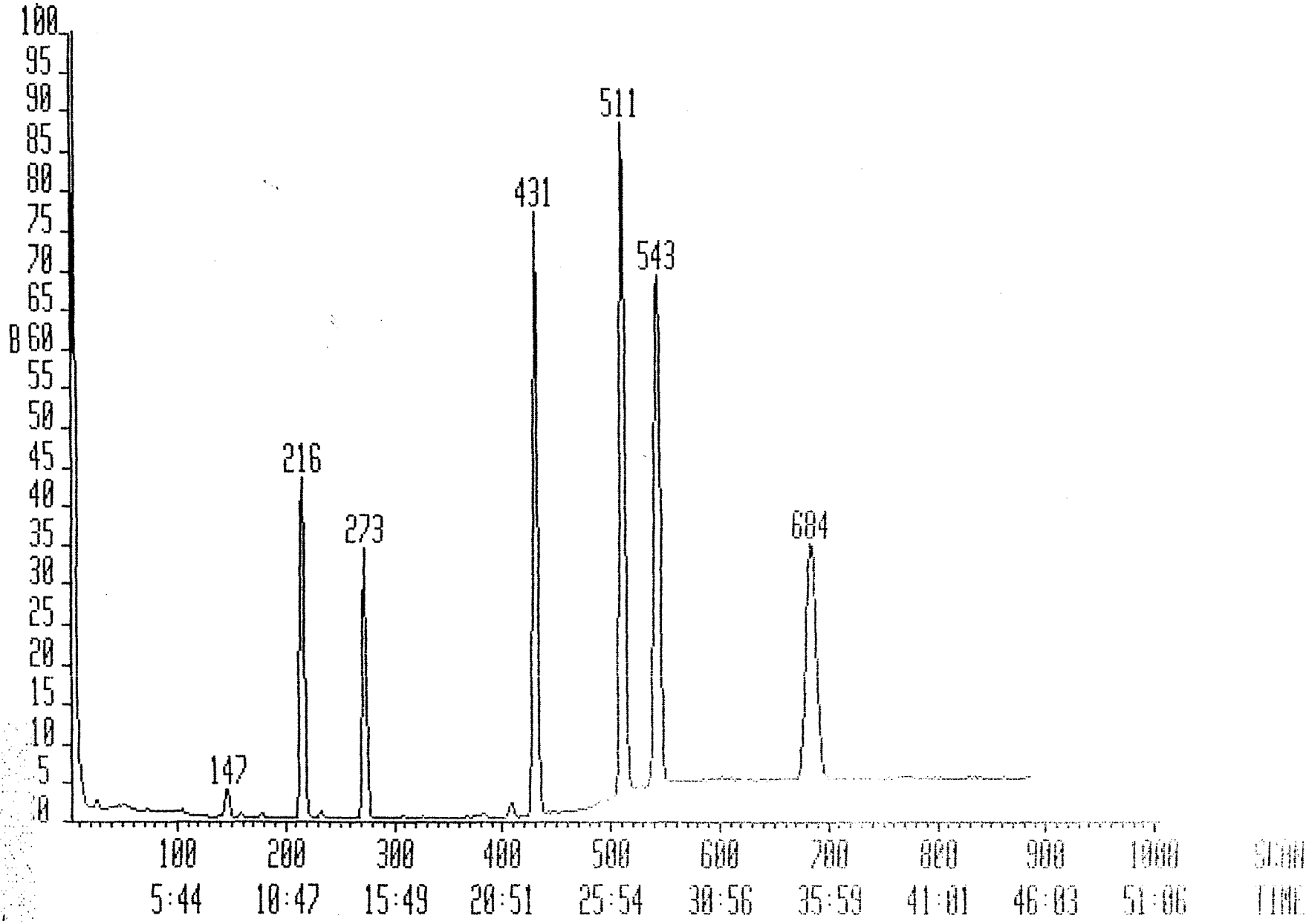
CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	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.					

RR1091 #5-890 14-MAY-92 19:51 VG#2 (EI+) Sys:VOA91 IHP

Chromatogram Identifiers : B1:35:260 B: 56856000

Text:VBLK32_00000



Interim Report Sample Analysis, 15-MAY-92 09:44:37

Datafile: RR1091 14-MAY-92 19:51
Database: VOA91L
Library: VOA91

QRE
5/15/92
m.g.

Instrument: V9#2
Account:
Text: VBLK32_00000

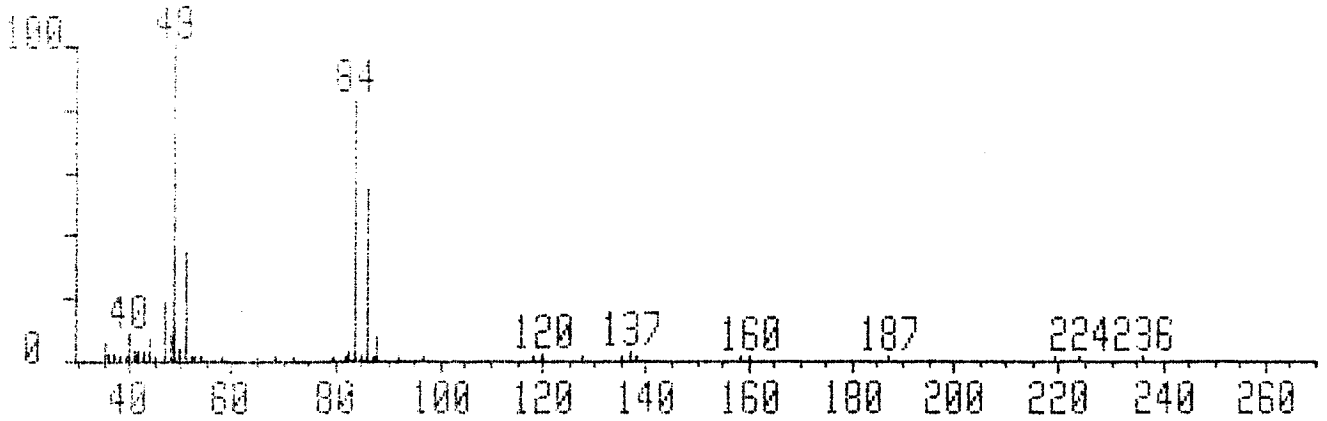
No.	Rank	Spectrum Match	Fit	Scan Diff	Peak Area	Flgs	Scan Found	Pred	Quan m/z	Compound Name
1	100	92	99	1	13047000	bb	216	215	128	Bromochloromethane
2	99	86	99	0	23055000	bv	273	273	65	1,2-Dichloroethane-d4
~~3~~	~~55~~	3	99	0	102000	bb*	25	25	50	Chloromethane
	47	1	93	5	6000	?b	30			
	47	1	95	7	18000	b?	32			
~~4~~	~~58~~	4	96	0	73125	vv	54	54	94	Bromomethane
	38	2	78	9	6250	??	63			
	37	1	77	-8	333	??	46			
~~5~~	~~52~~	1	97	1	60000	vb*	74	73	62	Vinyl Chloride
	47	1	91	-3	11000	??	70			
	46	0	95	-8	10000	??	65			
~~6~~	~~47~~	2	86	0	29000	b?	98	98	64	Chloroethane
	38	2	84	-14	14000	??	84			
	35	2	84	-18	7000	b?	80			
7	96	81	98	0	1877000	bb	146	146	84	Methylene Chloride
8	77	48	99	-2	502216	vv	159	161	43	Acetone
	50	10	99	11	9838	??	172			
	49	7	99	-10	7811	??	151			
~~9~~	~~89~~	~~67~~	99	1	~~1165000~~	bv	178	177	76	Carbon Disulfide
~~10~~	70	33	98	0	59000	bb	204	204	96	1,1-Dichloroethene
~~11~~	~~60~~	14	99	0	190000	bb	232	232	63	1,1-Dichloroethane
	42	7	91	15	58000	bb	247			
	39	0	90	-14	160000	bb	218			
~~12~~	~~79~~	49	99	0	98000	bb	247	247	~~76~~	~~1,2-Dichloroethene (to~~ NO
~~13~~	~~69~~	32	98	1	90000	bb	261	260	83	Chloroform
~~14~~	~~62~~	46	71	1	1490000	bb	276	275	62	1,2-Dichloroethane
~~15~~	~~53~~	1	99	-1	194714	vv	271	272	43	2-Butanone
	45	5	84	-5	10371	??	267			
	44	6	84	-7	11857	??	265			
16	85	60	99	0	76675000	bb	431	431	114	1,4-Difluorobenzene
~~17~~	~~67~~	30	95	0	85000	bb	303	303	97	1,1,1-Trichloroethane
~~18~~	~~49~~	12	80	0	26000	bb	312	312	117	Carbon Tetrachloride
	33	3	67	-9	10000	bb	303			
19	----------	No Trace Found	----------					0	1	
~~20~~	~~42~~	8	71	-1	29000	bb	322	323	83	Bromodichloromethane
	18	0	43	-17	4000	bb	306			
~~21~~	~~40~~	10	65	-1	28000	bb	350	351	63	1,2-Dichloropropane
	24	3	51	-13	16000	bb	338			
~~22~~	~~48~~	16	75	1	40000	bb	357	356	75	cis-1,3-Dichloropropen
~~23~~	~~71~~	33	99	0	67000	bb	367	367	130	Trichloroethene
~~24~~	~~49~~	5	87	1	26000	bb	384	383	129	Dibromochloromethane
~~25~~	~~48~~	11	79	0	23000	bb	385	385	97	1,1,2-Trichloroethane
~~26~~	~~78~~	49	96	0	393000	bb	377	377	78	Benzene
~~27~~	~~50~~	6	89	1	51000	bb	384	383	75	trans-1,3-dichloroprop
	24	4	44	-6	4000	bb	377			
28	----------	No Trace Found	----------					367	1	
~~29~~	~~36~~	4	63	0	21000	bb	442	442	173	Bromoform
30	92	74	98	0	68706840	vv	542	542	117	Chlorobenzene-d5
31	84	61	99	-1	38268160	bv	683	684	95	4-Bromofluorobenzene

000089

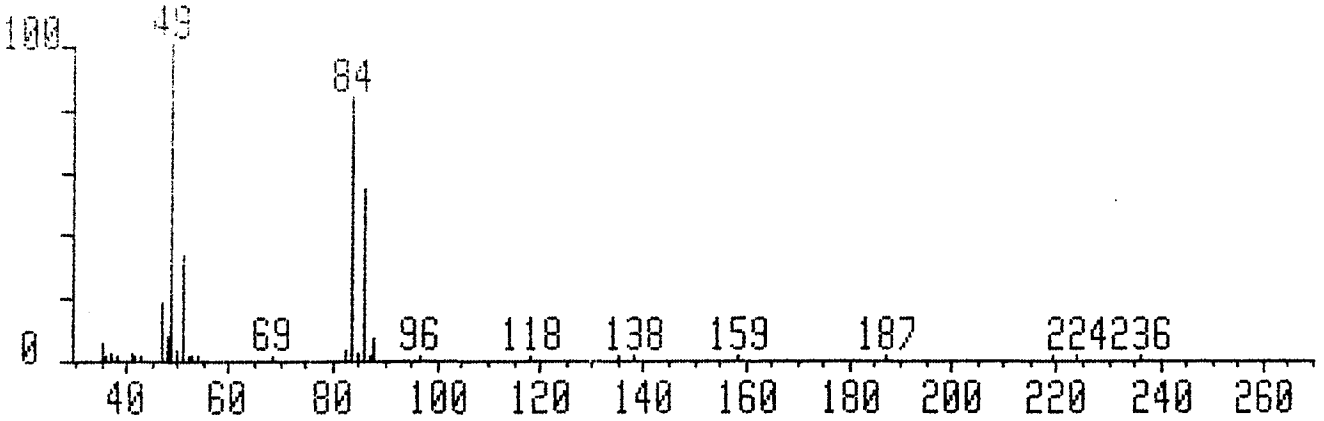
32	80	61	95	0	81931220	vv	511	511	98	Toluene-d8
~~33~~	~~54~~	~~21~~	~~91~~	~~1~~	121000	vb	449	448	43	4-Methyl-2-Pentanone
	54	14	94	-5	15120	??	440			
	52	14	92	-7	0	??	441			
~~34~~	~~55~~	17	86	0	39100	??	481	481	43	2-Hexanone
	51	16	85	-4	2000	??	477			
	50	16	84	5	0	??	486			
~~35~~	~~55~~	9	96	1	51000	bb	488	487	164	Tetrachloroethene
~~36~~	~~57~~	9	93	0	44750	v?	491	491	83	1,1,2,2-Tetrachloroeth
	46	9	90	6	3857	??	497			
	46	9	89	-5	4473	??	485			
~~37~~	~~50~~	21	98	1	1736364	vb	516	515	91	Toluene
	41	7	82	-11	8346	??	504			
	39	7	81	-14	0	??	501			
~~38~~	~~40~~	2	73	1	202000	bv	547	546	112	Chlorobenzene
	31	1	63	8	8000	??	554			
	29	1	64	-13	7000	??	533			
~~39~~	~~38~~	8	63	0	133000	bv	604	604	106	Ethylbenzene
	28	7	53	-9	5000	b?	595			
	28	7	53	-11	24000	?b	593			
~~40~~	~~40~~	5	70	1	145000	v?	728	727	104	Styrene
	36	4	68	5	35000	??	732			
	33	4	63	7	64000	?b	734			
~~41~~	~~37~~	10	59	0	91000	v?	735	735	106	m-Xylene
	35	10	58	2	91000	v?	737			
	34	9	58	-5	19000	??	730			
~~42~~	~~38~~	10	61	0	89655	?v	768	768	106	o-/p-Xylene
	37	10	61	-2	46103	??	766			
	34	9	59	-5	31759	v?	763			
43	----------		No Trace Found				----------	0	-	

RR1091
VBLK 32

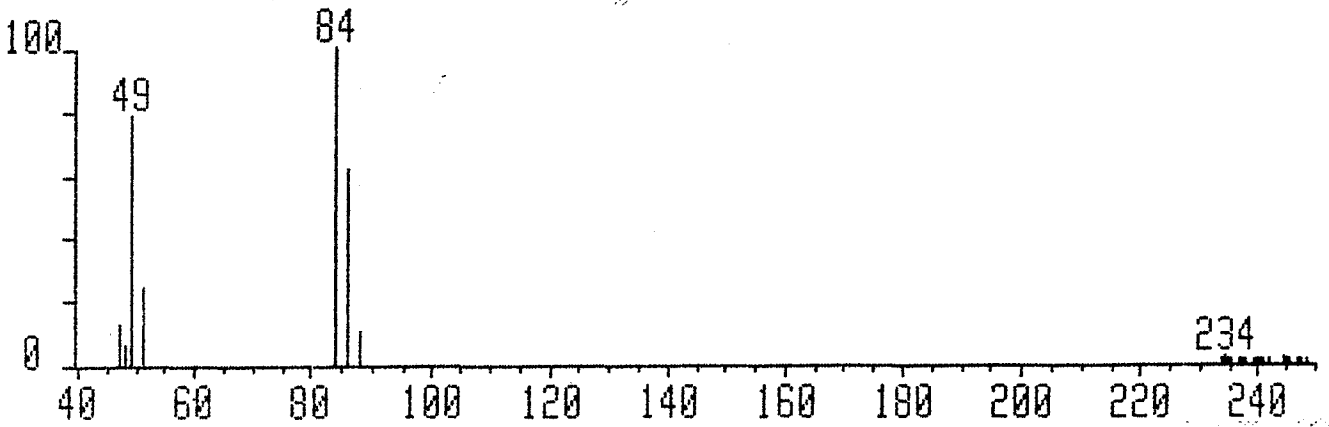
RR1091#146 x1 Bgd=3 14-MAY-92 19:51+0:08:03 EI+
I=93mv TIC=2257000 Acnt:
Text:VBLK32_00000_Methylene Chloride



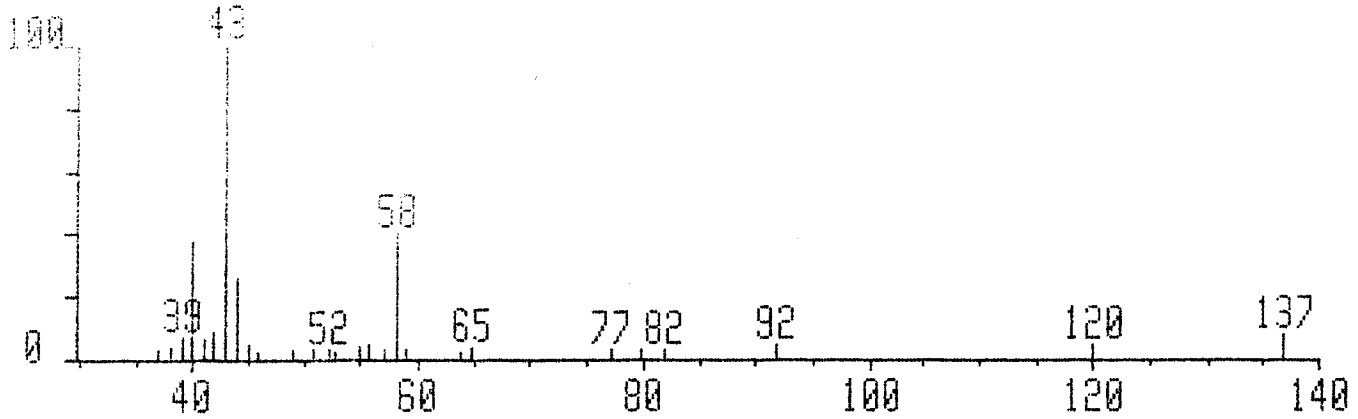
RR1091S#146 x1 Bgd=141 14-MAY-92 19:51+0:08:03 EI+
I=93mv TIC=2055000 SU Acnt:
Text:VBLK32_00000_Methylene Chloride



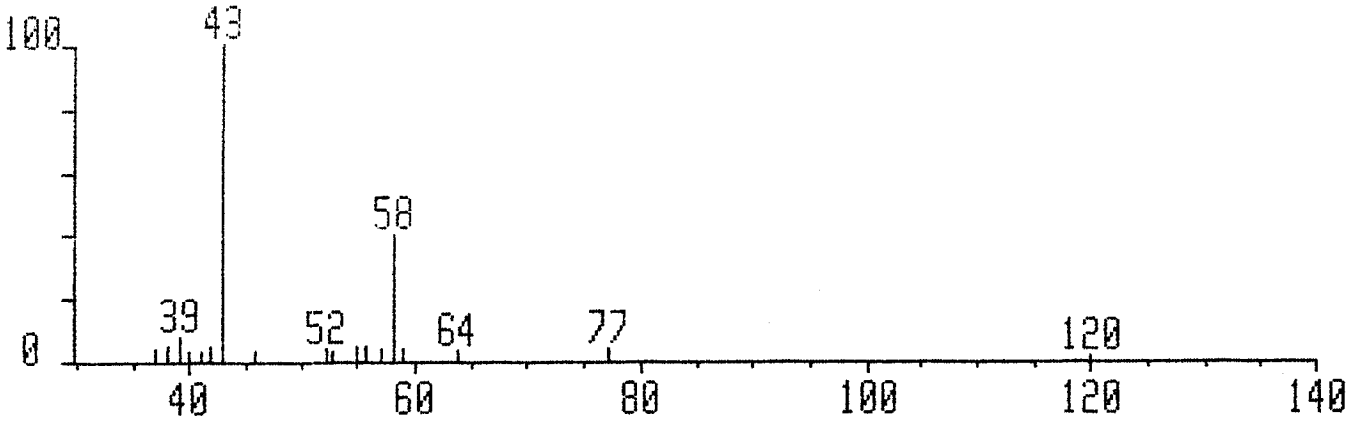
V8240#7 x1 Bgd=1 1-DEC-89 13:03+0:00:23 EI+
I=234mv TIC=10910000 Acnt:VG#2
Text:Methylene Chloride



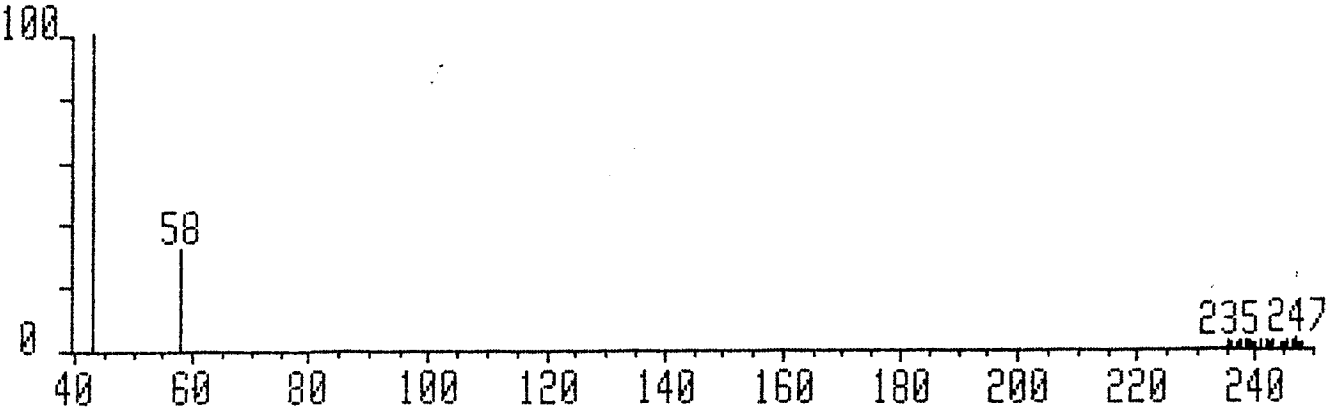
RR1091#159 x1 Bgd=3 14-MAY-92 19:51+0:08:42 EI+
I=22mv TIC=425000 Acnt:
Text:VBLK32_00000_Acetone



RR1091S#159 x1 Bgd=153 14-MAY-92 19:51+0:08:42 EI+
I=20mv TIC=258000 SU Acnt:
Text:VBLK32_00000_Acetone



V8240#8 x1 Bgd=1 1-DEC-89 13:03+0:00:26 EI+
I=226mv TIC=11124000 Acnt:VG#2
Text:Acetone



ATT RESULTS RR1091 TIC 00000

Internal Standard	Scan	Area	Conc
Bromochloromethane	216	5871	50
1,4-Difluorobenzene	431	10734	50
Chlorobenzene-d5	542	13054	50

TIC Scan	BKG Scan	IS Scan	Area	Conc
~~53~~		~~216~~	~~1335~~	~~11~~