

**POOR LEGIBILITY**

**ONE OR MORE PAGES IN THIS DOCUMENT ARE DIFFICULT TO READ  
DUE TO THE QUALITY OF THE ORIGINAL**



*MW-1UB*

GCMS - RESULTS

AR0570

ATI I.D. : 80609601

TEST : VOLATILE ORGANICS (EPA 624)

CLIENT	: MONTGOMERY & ASSOCIATES	DATE SAMPLED	: 06/14/88
PROJECT #	: 661D	DATE RECEIVED	: 06/17/88
PROJECT NAME	: HASSAYAMPA	DATE EXTRACTED	: N/A
CLIENT I.D.	: 014425	DATE ANALYZED	: 06/27/88
SAMPLE MATRIX	: AQUEOUS	UNITS	: UG/L
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
CHLOROMETHANE	<10
BROMOMETHANE	<10
VINYL CHLORIDE	<1
CHLOROETHANE	<1
METHYLENE CHLORIDE	<5
ACETONE	<10
CARBON DISULFIDE	<1
1,1-DICHLOROETHENE	<1
1,1-DICHLOROETHANE	<1
1,2-DICHLOROETHENE (TOTAL)	<1
CHLOROFORM	<1
1,2-DICHLOROETHANE	<1
2-BUTANONE (MEK)	<10
1,1,1-TRICHLOROETHANE	<1
CARBON TETRACHLORIDE	<1
VINYL ACETATE	<10
BROMODICHLOROMETHANE	<1
1,1,2,2-TETRACHLOROETHANE	<1
1,2-DICHLOROPROPANE	<1
TRANS-1,3-DICHLOROPROPENE	<1
TRICHLOROETHENE	<1
DIBROMOCHLOROMETHANE	<1
1,1,2-TRICHLOROETHANE	<1
BENZENE	<1
CIS-1,3-DICHLOROPROPENE	<1
2-CHLOROETHYLVINYLETHER	<10
BROMOFORM	<5
2-HEXANONE (MBK)	<10
4-METHYL-2-PENTANONE (MIBK)	<10
TETRACHLOROETHENE	<1
TOLUENE	1
CHLOROBENZENE	<1
ETHYL BENZENE	<1
STYRENE	<1
TOTAL XYLENES	<1

*Organic data - Results  
for MW-1UB (014425) +  
MW-3UB (014426)  
1) DSS's  
2) Chromatograms  
3) Integration reports  
4) FID data for mass spec*

SURROGATE PERCENT RECOVERIES

1,2-DICHLOROETHANE-D4 (%)	96 ✓
BFB (%)	90 ✓
TOLUENE-D8 (%)	104 ✓

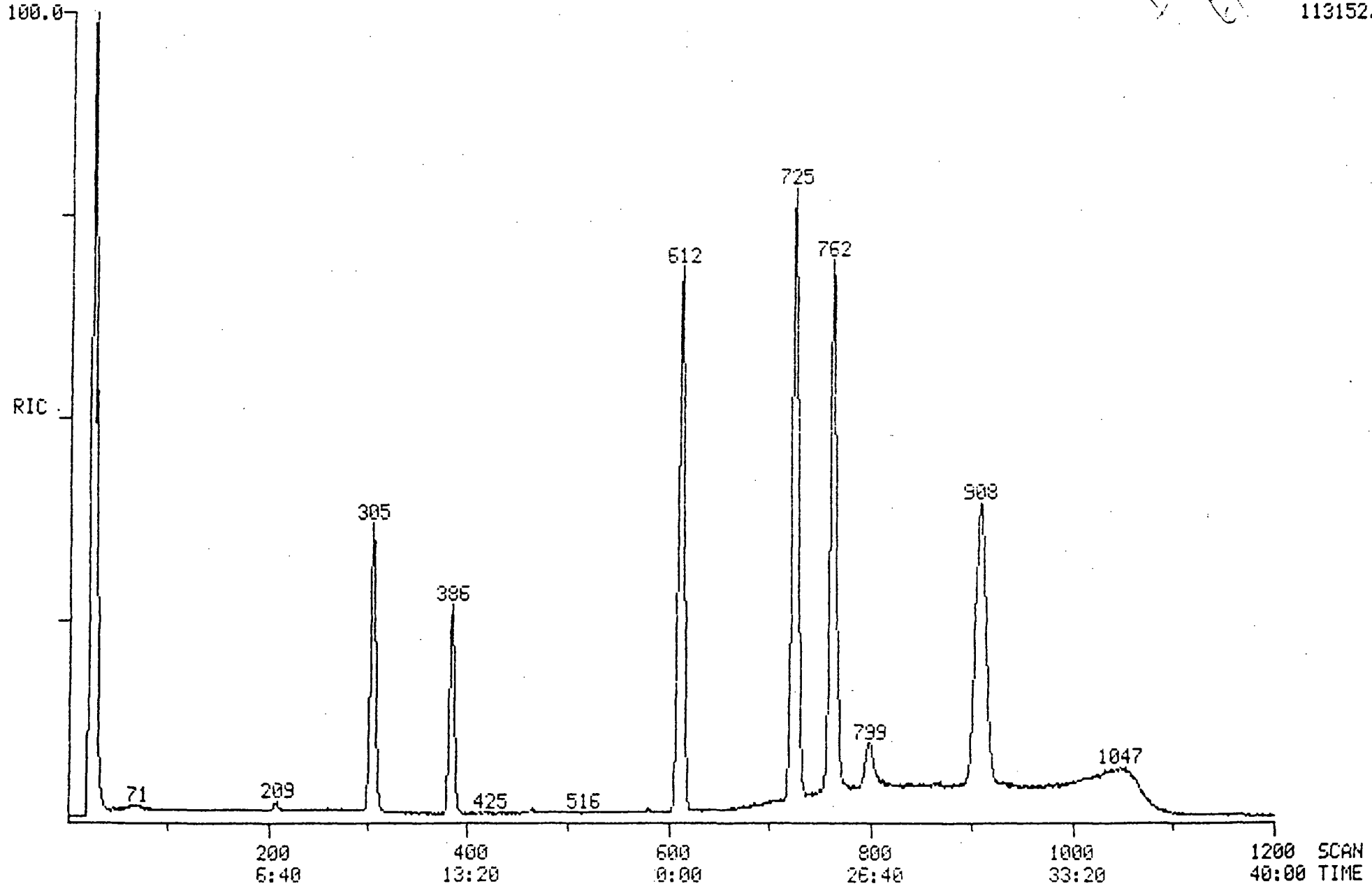
624 - mw-1473

RIC DATA: 8060961 #1 SCANS 1 TO 1200  
06/27/88 14:06:00 CALI: 8060961 #2  
SAMPLE: JOB 806096-1 014425 5ML  
CONDS.: GC4  
RANGE: G 1,1200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

*Done*  
*6/20/88*

113152.

TCA FINISHED, 7 FOUND  
FINISHED AT: 6/27/88 14:52:22



PROCEDURE: TCA  
 DATA FILE: 8060961  
 REFERENCE: 8060961  
 NAME LIST: VGN  
 REPORT: VQSTDS

DIAGNOSTIC REPORT

6/27/88 14:47:20

INITIALIZATION OPTION: 2 PROCESSING OPTION: 3

< ---- STANDARDS ---- >				>< --- PLUS UNKNOWN --- ><				>< - LIST NAMES - >	
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN	
6	6	1	118	18	7	1	109	VQSTDS/VQ1	
6	6	1	118	18	6	1	118	VQSTDS/VQ2	
6	6	1	118	18	6	1	118	VQSTDS/VQ3	

42 COMPOUNDS PROCESSED, 7 FOUND

< COMPOUND >		----- SEARCH -----						>< SAT ><		----- CHRD ----- >			
NO	LIB ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS	
1	VQ	1	-307	305	305	.	1	980	128	305	.	1	
2	VQ	2	-616	612	612	.	1	923	114	612	.	1	
3	VQ	3	-766	761	762	1	1	995	117	762	.	1	
4	VQ	4	-389	387	386	-1	1	1000	65	386	.	1	
5	VQ	5	-729	724	725	1	1	996	98	725	.	1	
6	VQ	6	-916	910	908	-2	1	978	95	908	.	1	
7	VQ	7	-56	56	.	.	.	.	50	.	.	.	
8	VQ	8	-89	88	.	.	.	.	94	.	.	.	
9	VQ	9	-112	111	.	.	.	.	62	.	.	.	
10	VQ	10	-144	143	.	.	.	.	64	.	.	.	
11	VQ	11	-211	210	209	-1	1	887	84	207	-2	1	
12	VQ	12	-229	227	.	.	.	.	43	.	.	.	
13	VQ	13	-258	256	.	.	.	.	76	.	.	.	
14	VQ	14	-293	291	.	.	.	.	96	.	.	.	
15	VQ	15	-332	330	.	.	.	.	63	.	.	.	
16	VQ	16	-353	351	.	.	.	.	96	.	.	.	
17	VQ	17	-370	367	.	.	.	.	83	.	.	.	
18	VQ	18	-392	389	.	.	.	.	62	.	.	.	
19	VQ	19	-390	388	.	.	.	.	72	.	.	.	
20	VQ	20	-431	428	.	.	.	.	97	.	.	.	
21	VQ	21	-443	440	.	.	.	.	117	.	.	.	
22	VQ	22	-446	443	.	.	.	.	43	.	.	.	
23	VQ	23	-458	455	.	.	.	.	83	.	.	.	
24	VQ	24	-694	689	.	.	.	.	83	.	.	.	
25	VQ	25	-499	496	.	.	.	.	63	.	.	.	
26	VQ	26	-506	503	.	.	.	.	75	.	.	.	
27	VQ	27	-523	520	.	.	.	.	130	.	.	.	
28	VQ	28	-542	538	.	.	.	.	129	.	.	.	
29	VQ	29	-545	541	.	.	.	.	97	.	.	.	
30	VQ	30	-538	534	.	.	.	.	78	.	.	.	
31	VQ	31	-545	541	.	.	.	.	75	.	.	.	
32	VQ	32	-578	574	.	.	.	.	63	.	.	.	
33	VQ	33	-624	620	.	.	.	.	173	.	.	.	
34	VQ	34	-639	635	.	.	.	.	43	.	.	.	
35	VQ	35	-687	682	.	.	.	.	43	683	.	1	
36	VQ	36	-695	690	.	.	.	.	164	.	.	.	
37	VQ	37	-735	730	.	.	.	.	92	731	.	1	
38	VQ	38	-770	765	.	.	.	.	112	.	.	.	
39	VQ	39	-835	829	.	.	.	.	106	.	.	.	
40	VQ	40	-964	957	.	.	.	.	104	.	.	.	
41	VQ	41	-1006	999	.	.	.	.	106	.	.	.	
42	VQ	42	-973	966	.	.	.	.	106	.	.	.	

Data: 8060961.TI

06/27/88 14:06:00

Sample: JOB 806096-1 014425 5ML

Conditions: GC4

Formula:

Instrument: 1050

Weight: 0.003

Submitted by:

Analyst: MGB

Acct. No.:

AMOUNT=AREA \* REF AMNT/(REF AREA \* RESP FACT)

Resp. fac. from Library Entry

No	Name
1	IS1 BROMOCHLOROMETHANE
2	IS2 1,4-DIFLUOROBENZENE
3	IS3 CHLOROBENZENE-D5
4	SS1 DICHLOROETHANE-D4 ← <i>sp</i>
5	SS2 TOLUENE-DB
6	SS3 BROMOFLUOROBENZENE
7	45V CHLOROMETHANE
8	46V BROMOMETHANE
9	88V VINYL CHLORIDE
10	16V CHLOROETHANE
11	44V METHYLENE CHLORIDE
12	13H ACETONE
13	15H CARBON DISULFIDE
14	29V 1,1-DICHLOROETHENE
15	13V 1,1-DICHLOROETHANE
16	30V TRANS-1,2-DICHLOROETHENE
17	23V CHLOROFORM
3	10V 1,2-DICHLOROETHANE
19	14H 2-BUTANONE
20	11V 1,1,1-TRICHLOROETHANE
21	6V CARBON TETRACHLORIDE
22	19H VINYL ACETATE
23	48V BROMODICHLOROMETHANE
24	15V 1,1,2,2-TETRACHLOROETHANE
25	32V 1,2-DICHLOROPROPANE
26	33VT TRANS-1,3-DICHLOROPROPANE
27	87V TRICHLOROETHENE
28	51V DIBROMOCHLOROMETHANE
29	14V 1,1,2-TRICHLOROETHANE
30	4V BENZENE
31	33VC CIS-1,3-DICHLOROPROPENE
32	19V 2-CHLOROETHYL VINYL ETHER
33	47V BROMOFORM
34	17H 4-METHYL-2-PENTANONE
35	16H 2-HEXANONE
36	85V TETRACHLOROETHENE
37	86V TOLUENE
38	7V CHLOROBENZENE
39	38V ETHYLBENZENE
40	18H STYRENE
41	20H TOTAL XYLENES
42	XYLENES

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	305	10:10	1	1.000	A BB	36865.	50.000 UG/L	11.27
2	114	612	20:24	2	1.000	A BB	226872.	50.000 UG/L	11.27
3	117	762	25:24	3	1.000	A BB	179952.	50.000 UG/L	11.27
4	65	386	12:52	1	1.266	A BB	64811.	96.018 %	21.65 ✓
5	98	725	24:10	3	0.951	A BB	232357.	104.131 %	23.48 ✓
6	95	908	30:16	3	1.192	A BB	115620.	90.114 %	20.32 ✓
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	84	207	6:54	1	0.679	A BB	1808.	1.418 UG/L	0.32 ✓
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	NOT FOUND								
34	NOT FOUND								
35	43	683	22:46	3	0.896	A BB	495.	0.672 UG/L	0.15 ✓
36	NOT FOUND								
37	92	731	24:22	3	0.959	A BB	3766.	1.173 UG/L	0.26 ✓
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								



GCMS - RESULTS

ATI I.D. : 80609601

TEST : SEMI-VOLATILE ORGANICS (EPA 625)

CLIENT : MONTGOMERY & ASSOCIATES
PROJECT # : 661D
PROJECT NAME : HASSAYAMPA
CLIENT I.D. : 014425
SAMPLE MATRIX : AQUEOUS

DATE SAMPLED : 06/14/88
DATE RECEIVED : 06/17/88
DATE EXTRACTED : 6/20/88
DATE ANALYZED : 07/20/88
UNITS : UG/L
DILUTION FACTOR : 1

Table with 2 columns: COMPOUNDS and RESULTS. Lists various chemical compounds and their corresponding results, mostly showing values less than 10 or 50.

## GCMS - RESULTS

ATI I.D. : 80609601

TEST : SEMI-VOLATILE ORGANICS (EPA 625)

COMPOUNDS	RESULTS
DIETHYLPHTHALATE	<10
4-CHLOROPHENYL-PHENYLEETHER	<10
FLUORENE	<10
4-NITROANILINE	<50
4,6-DINITRO-2-METHYLPHENOL	<50
N-NITROSODIPHENYLAMINE	<10
4-BROMOPHENYL-PHENYLEETHER	<10
HEXACHLOROBENZENE	<10
PENTACHLOROPHENOL	<50
PHENANTHRENE	<10
ANTHRACENE	<10
DI-N-BUTYLPHTHALATE	<10
FLUORANTHENE	<10
BENZIDINE	<100
PYRENE	<10
BUTYLBENZYLPHTHALATE	<10
3,3'-DICHLOROBENZIDINE	<20
BENZO (a) ANTHRACENE	<10
BIS (2-ETHYLHEXYL) PHTHALATE	<10
CHRYSENE	<10
DI-N-ETHYLPHTHALATE	<10
BENZO (b) FLUORANTHENE	<10
BENZO (k) FLUORANTHENE	<10
BENZO (a) PYRENE	<10
INDENO (1,2,3-cd) PYRENE	<10
DIBENZO (a,h) ANTHRACENE	<10
BENZO (g,h,i) PERYLENE	<10

## SURROGATE PERCENT RECOVERIES

NITROBENZENE-D5 (%)	53
2-FLUOROBIPHENYL (%)	60
TERPHENYL (%)	70
PHENOL-D5 (%)	41
2-FLUOROPHENOL (%)	72
2,4,6-TRIBROMOPHENOL (%)	32





Analytical Technologies, Inc

MW-1UB

ADDITIONAL MAJOR COMPOUNDS

ATI I.D. : 80609601

-----  
ADDITIONAL MAJOR COMPOUNDS

-----  
RESULTS

-----  
BRANCHED HYDROCARBON

-----  
20

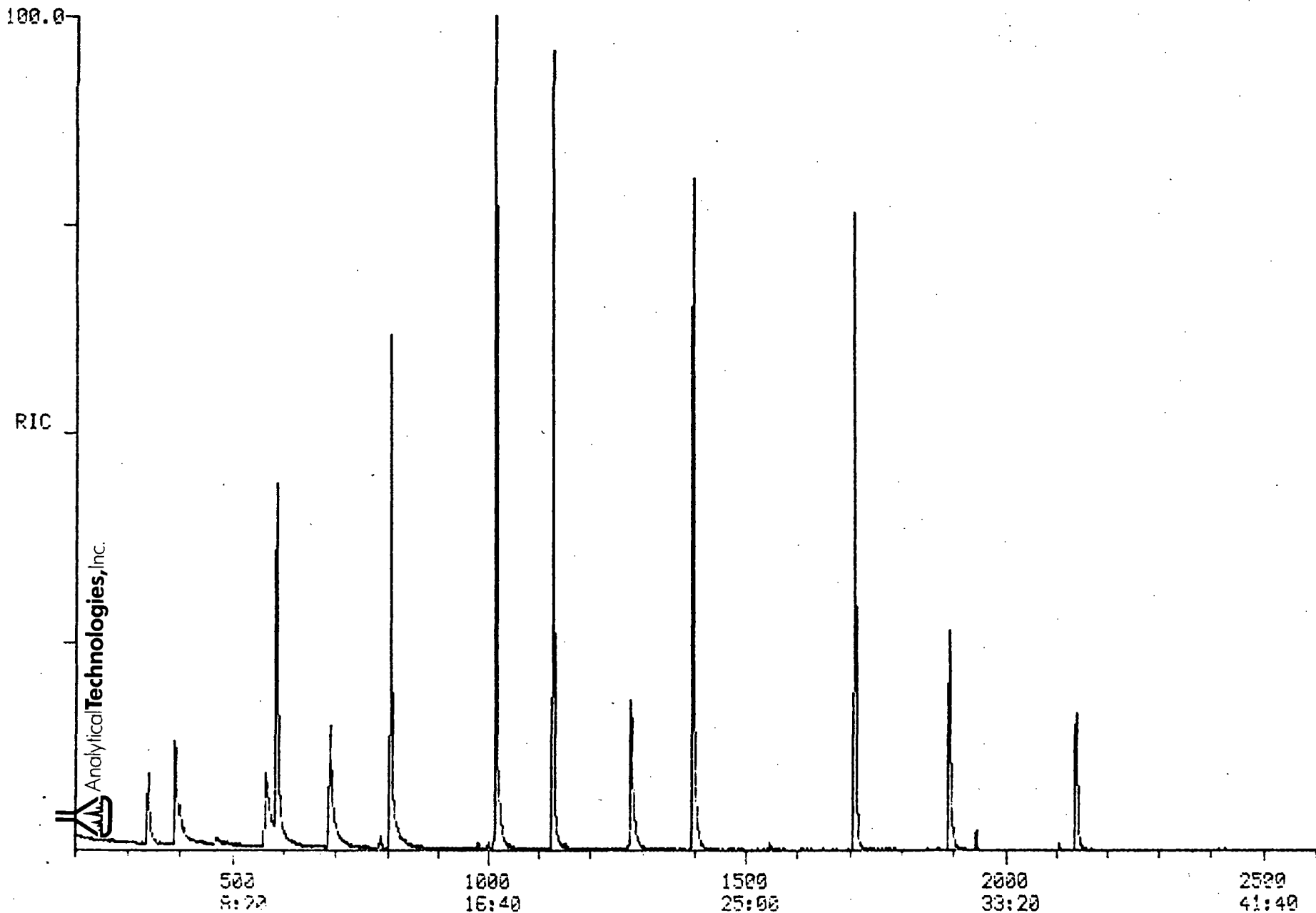
806096-1

EPA 625

MW-1UB

RIC DATA: 88M3B2347 #1 SCANS 200 TO 2600  
07/20/88 22:17:00 CALI: 88M3B2347 #2  
SAMPLE: ~~803205-2~~ 806096-1  
CONDS.: 1UL 1L->2X1ML  
RANGE: G 1.2600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

322048.




SCAN  
TIME

STANDARDS				PLUS UNKNOWN				LIST NAMES	
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN	
2	2	2	249	11	2	1	0	X1/Z1	
2	2	1	0	9	4	6	239	X1/Z4	
2	2	3	208	9	2	1	0	X2/Z2	
2	2	1	0	9	3	1	15	X2/Z8	
2	2	2	33	12	2	1	0	X3/Z3	
2	2	1	0	12	4	1	28	X3/ZC	
2	2	2	63	11	3	1	80	X4/Z4	
2	2	1	0	10	4	1	53	X5/Z5	
1	4	0	0	7	0	1	0	X6/Z6	

80 COMPOUNDS PROCESSED, 14 FOUND

COMPOUND		SEARCH							SAT	CHRO			
NO	LIB ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS	
1	SV	1	-591	587	585	-2	2	987	152	585	.	1	
2	SV	2	-811	806	807	1	1	989	136	807	.	1	
3	SV	14	-205	195	.	.	.	.	42	.	.	.	
4	SV	15	-573	567	.	.	.	.	94	.	.	.	
5	SV	16	-558	552	.	.	.	.	93	.	.	.	
6	SV	17	-567	561	.	.	.	.	93	.	.	.	
7	SV	18	-568	562	.	.	.	.	128	.	.	.	
8	SV	19	-584	578	.	.	.	.	146	.	.	.	
9	SV	20	-594	588	.	.	.	.	146	.	.	.	
10	SV	21	-642	636	.	.	.	.	108	.	.	.	
11	SV	22	-624	618	.	.	.	.	146	.	.	.	
12	SV	7	-571	562	563	1	2	997	99	563	.	1	
13	SV	8	-405	392	390	-2	3	976	112	390	.	1	
14	SV	23	-668	662	.	.	.	.	108	.	.	.	
15	SV	24	-659	652	.	.	.	.	45	.	.	.	
16	SV	25	-697	691	.	.	.	.	108	.	.	.	
17	SV	26	-683	677	.	.	.	.	70	.	.	.	
18	SV	27	-675	669	.	.	.	.	117	.	.	.	
19	SV	3	-1130	1127	1128	1	3	993	164	1128	.	1	
20	SV	28	-696	691	.	.	.	.	77	.	.	.	
21	SV	29	-741	737	.	.	.	.	82	.	.	.	
22	SV	30	-753	749	.	.	.	.	139	.	.	.	
23	SV	31	-781	777	.	.	.	.	122	.	.	.	
24	SV	32	-820	816	.	.	.	.	122	.	.	.	
25	SV	33	-792	788	.	.	.	.	93	.	.	.	
26	SV	34	-804	800	.	.	.	.	162	.	.	.	
27	SV	9	-694	689	689	.	1	987	82	689	.	1	
28	SV	35	-807	803	.	.	.	.	180	.	.	.	
29	SV	36	-814	810	.	.	.	.	128	.	.	.	
30	SV	37	-851	847	.	.	.	.	127	.	.	.	
31	SV	38	-855	851	.	.	.	.	225	.	.	.	
32	SV	39	-945	942	.	.	.	.	107	.	.	.	
33	SV	40	-940	937	.	.	.	.	142	.	.	.	
34	SV	4	-1400	1397	1397	.	2	984	188	1397	.	1	
35	SV	41	-984	983	.	.	.	.	237	.	.	.	
36	SV	42	-1005	1003	.	.	.	.	196	.	.	.	
37	SV	43	-1021	1019	.	.	.	.	196	.	.	.	
38	SV	44	-1026	1024	.	.	.	.	162	.	.	.	
39	SV	45	-1068	1066	.	.	.	.	65	.	.	.	
40	SV	46	-1108	1106	.	.	.	.	163	.	.	.	
41	SV	47	-1100	1098	.	.	.	.	152	.	.	.	
42	SV	48	-1066	1064	.	.	.	.	138	.	.	.	

46	SV	11	-1280	1277	1277	.	.	1	993	.	330	1277	.	.	1
47	SV	51	-1214	1211	.	.	.	.	.	.	139	.	.	.	.
48	SV	52	-1167	1165	.	.	.	.	.	.	168	.	.	.	.
49	SV	53	-1167	1165	.	.	.	.	.	.	89	.	.	.	.
50	SV	54	-1116	1114	.	.	.	.	.	.	165	.	.	.	.
51	SV	55	-1241	1238	.	.	.	.	.	.	149	.	.	.	.
52	SV	56	-1240	1237	.	.	.	.	.	.	204	.	.	.	.
53	SV	57	-1229	1226	.	.	.	.	.	.	166	.	.	.	.
54	SV	58	-1279	1276	.	.	.	.	.	.	138	.	.	.	.
55	SV	5	-1896	1893	1893	.	.	2	929	.	240	1892	-1	.	1
56	SV	59	-1260	1258	.	.	.	.	.	.	198	.	.	.	.
57	SV	60	-1266	1264	.	.	.	.	.	.	169	.	.	.	.
58	SV	61	-1328	1325	.	.	.	.	.	.	248	.	.	.	.
59	SV	62	-1346	1343	.	.	.	.	.	.	284	.	.	.	.
60	SV	63	-1387	1384	.	.	.	.	.	.	266	.	.	.	.
61	SV	64	-1404	1401	.	.	.	.	.	.	178	.	.	.	.
62	SV	65	-1412	1409	.	.	.	.	.	.	178	.	.	.	.
63	SV	66	-1549	1546	1547	1	.	1	990	.	149	1547	.	.	1
64	SV	67	-1626	1623	.	.	.	.	.	.	202	.	.	.	.
65	SV	6	-2144	2140	2140	.	.	1	980	.	264	2140	.	.	1
66	SV	12	-1713	1711	1711	.	.	1	985	.	244	1710	-1	.	1
67	SV	68	-1713	1711	.	.	.	.	.	.	184	.	.	.	.
68	SV	69	-1664	1662	.	.	.	.	.	.	202	.	.	.	.
69	SV	70	-1824	1821	.	.	.	.	.	.	149	.	.	.	.
70	SV	71	-1910	1907	.	.	.	.	.	.	252	.	.	.	.
71	SV	72	-1894	1891	.	.	.	.	.	.	228	.	.	.	.
72	SV	73	-1948	1945	1944	-1	.	1	990	.	149	1944	.	.	1
73	SV	74	-1901	1898	.	.	.	.	.	.	228	.	.	.	.
74	SV	75	-2057	2057	.	.	.	.	.	.	149	.	.	.	.
75	SV	76	-2084	2084	.	.	.	.	.	.	252	.	.	.	.
76	SV	77	-2088	2088	.	.	.	.	.	.	252	.	.	.	.
77	SV	78	-2135	2135	.	.	.	.	.	.	252	.	.	.	.
78	SV	79	-2307	2307	.	.	.	.	.	.	276	.	.	.	.
79	SV	80	-2313	2313	.	.	.	.	.	.	278	.	.	.	.
80	SV	81	-2348	2348	.	.	.	.	.	.	276	.	.	.	.


 Analytical Technologies, Inc.

Data: 88M3B2347.TI  
 07/20/88 Analytical Technologies, Inc.  
 Sample: 809208-2  
 Conds.: IUL 1L->2X1ML  
 Standard ID: 2-BNA-4-1C  
 Sensitivity ID: 2343

88M3B2347

Instrument: 5100  
 Analyst: RJT Inst Cali:

AMOUNT=AREA \* REF AMNT/(REF AREA \* RESP FACT)

Resp. fac. from Library Entry

NO	NAME
1	IS1 1,4-DICHLOROBENZENE-D4 (SV#1)
2	IS2 NAPHTHALENE-D8 (SV#2)
3	IS3 ACENAPHTHENE-D10 (SV#3)
4	IS4 PHENANTHRENE-D10 (SV#4)
5	IS5 CHRYSENE-D12 (SV#5)
6	IS6 PERYLENE-D12 (SV#6)
7	SS2 PHENOL-D5 (SV#7)
8	SS1 2-FLUOROPHENOL (SV#8)
9	SS3 NITROBENZENE-D5 (SV#9)
10	SS4 2-FLUOROBIPHENYL (SV#10)
11	SS5 2,4,6-TRIBROMOPHENOL (SV#11)
12	SS6 TERPHENYL-D14 (SV#12)
13	68B DI-N-BUTYL PHTHALATE (SV#66)
14	66B BIS(2-ETHYLHEXYL)PHTHALATE (SV#73)
15	METHANE, DICHLORO-
16	UNKNOWN
17	UNKNOWN
18	UNKNOWN
19	CYCLOPENTASILOXANE, DECAMETHYL-
20	UNKNOWN
21	D4-1,4-DICHLOROBENZENE (INT. STD.)
22	D8-NAPHTHALENE (INT. STD.)
23	D10-ACENAPHTHENE (INT. STD.)
24	D10-PHENANTHRENE (INT. STD.)
25	D12-CHRYSENE (INT. STD.)
26	D12-PERYLENE (INT. STD.)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	585	9:45	1	1.000	A BB	93852.	40.000 NG/UL	4.86
2	136	807	13:27	2	1.000	A BB	302371.	40.000 NG/UL	4.86
3	164	1128	18:48	3	1.000	A BB	214745.	40.000 NG/UL	4.86
4	188	1397	23:17	4	1.000	A BB	314127.	40.000 NG/UL	4.86
5	240	1892	31:32	5	1.000	A BB	141019.	40.000 NG/UL	4.86
6	264	2140	35:40	6	1.000	A BB	92402.	40.000 NG/UL	4.86
7	99	563	9:23	1	0.962	A BV	96478.	40.750 NG/UL	4.95
8	112	390	6:30	1	0.667	A BB	66507.	72.468 NG/UL	8.80
9	82	689	11:29	2	0.854	A BB	109733.	53.240 NG/UL	6.47
10	172	1015	16:55	3	0.900	A BB	282271.	59.922 NG/UL	7.28
11	330	1277	21:17	3	1.132	A BB	33678.	31.555 NG/UL	3.83
12	244	1710	28:30	5	0.904	A BB	240540.	69.594 NG/UL	8.45
13	149	1547	25:47	4	1.107	A BB	8748.	<del>1.149</del> NG/UL	0.14
14	149	1944	32:24	5	1.027	A BB	6326.	<del>2.451</del> NG/UL	0.30
15	RIC	174	2:54	23	0.154	A BB	118561.	<del>12.257</del>	1.49
16	RIC	338	5:38	23	0.300	A BB	130557.	<del>13.497</del>	1.64
17	RIC	398	6:38	23	0.353	A VB	77360.	7.998	0.97
18	RIC	471	7:51	23	0.418	A BB	24508.	2.534	0.31
19	RIC	789	13:09	23	0.699	A BB	16547.	1.711	0.21
20	RIC	2107	35:07	23	1.868	A BB	7519.	0.777	0.09
21	RIC	585	9:45	21	1.000	A VB	658656.	40.000 UG/L	4.86
22	RIC	807	13:27	22	1.000	A BB	723064.	40.000 UG/L	4.86
23	RIC	1128	18:48	23	1.000	A BB	967275.	40.000 UG/L	4.86
24	RIC	1397	23:17	24	1.000	A BB	948880.	40.000 UG/L	4.86

4.14  
↓

## GCMS - RESULTS

ATI I.D. : 80609602

TEST : VOLATILE ORGANICS (EPA 624)

CLIENT	: MONTGOMERY & ASSOCIATES	DATE SAMPLED	: 06/16/88
PROJECT #	: 661D	DATE RECEIVED	: 06/17/88
PROJECT NAME	: HASSAYAMPA	DATE EXTRACTED	: N/A
CLIENT I.D.	: 014426	DATE ANALYZED	: 06/27/88
SAMPLE MATRIX	: AQUEOUS	UNITS	: UG/L
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
CHLOROMETHANE	<10
BROMOMETHANE	<10
VINYL CHLORIDE	<1
CHLOROETHANE	<1
METHYLENE CHLORIDE	<5
ACETONE	<10
CARBON DISULFIDE	<1
1,1-DICHLOROETHENE	<1
1,1-DICHLOROETHANE	<1
1,2-DICHLOROETHENE (TOTAL)	<1
CHLOROFORM	<1
1,2-DICHLOROETHANE	<1
2-BUTANONE (MEK)	<10
1,1,1-TRICHLOROETHANE	<1
CARBON TETRACHLORIDE	<1
VINYL ACETATE	<10
BROMODICHLOROMETHANE	<1
1,1,2,2-TETRACHLOROETHANE	<1
1,2-DICHLOROPROPANE	<1
TRANS-1,3-DICHLOROPROPENE	<1
TRICHLOROETHENE	<1
DIBROMOCHLOROMETHANE	<1
1,1,2-TRICHLOROETHANE	<1
BENZENE	<1
CIS-1,3-DICHLOROPROPENE	<1
2-CHLOROETHYLVINYLEETHER	<10
BROMOFORM	<5
2-HEXANONE (MBK)	<10
4-METHYL-2-PENTANONE (MIBK)	<10
TETRACHLOROETHENE	<1
TOLUENE	<1
CHLOROBENZENE	<1
ETHYL BENZENE	<1
STYRENE	<1
TOTAL XYLENES	<1

## SURROGATE PERCENT RECOVERIES

1,2-DICHLOROETHANE-D4 (%)	94
BFB (%)	101
TOLUENE-D8 (%)	97

624 MW3UB

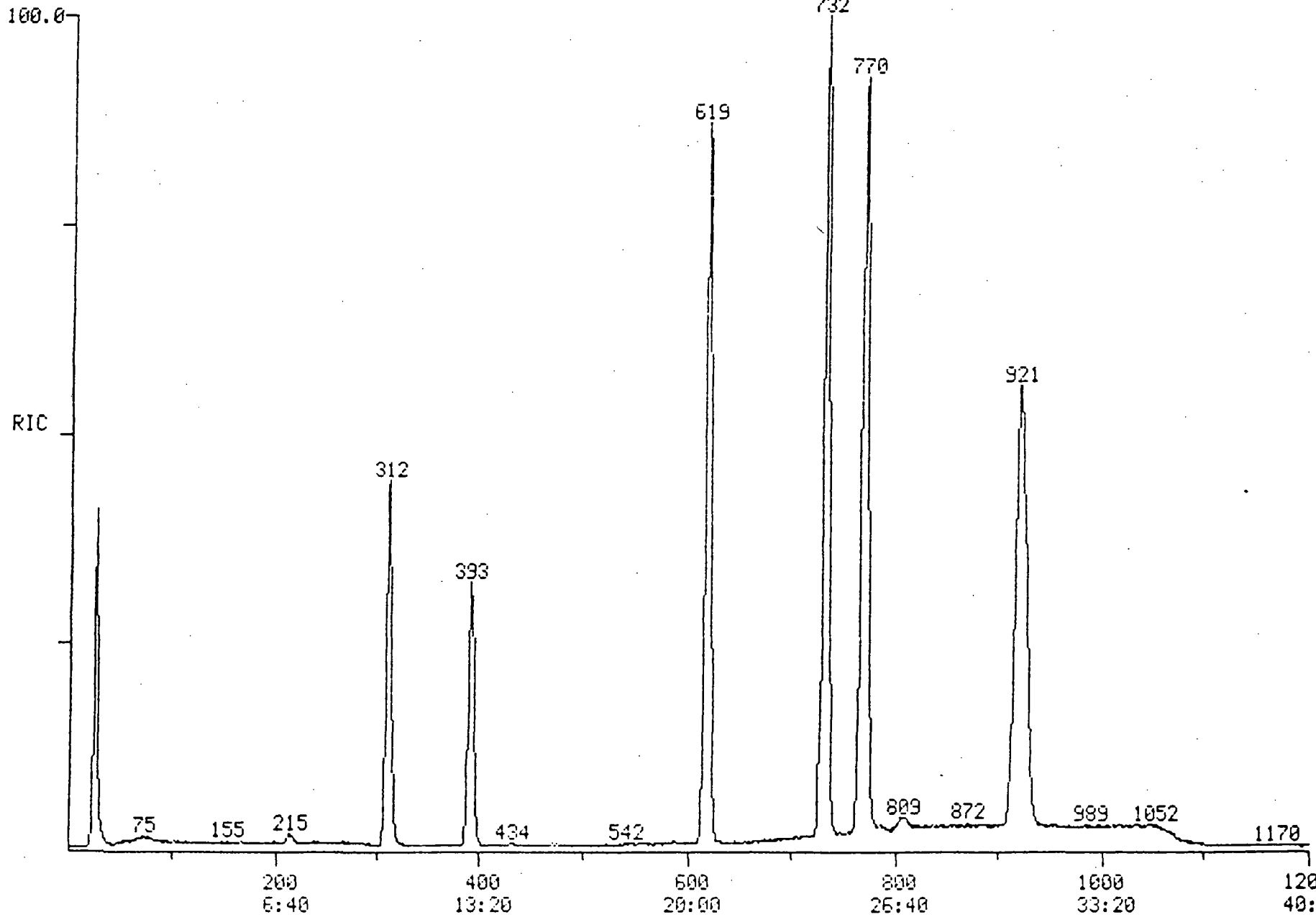
RIC  
06/27/88 14:55:00  
SAMPLE: JOB 806096-2 014426 5ML  
CONDS.: GC4  
RANGE: G 1.1200 LABEL: N 0. 4.0

DATA: 8060962 #1  
CALI: 8060962 #2

SCANS 1 TO 1200

QUAN: A 0. 1.0 J 0 BASE: U 20. 3

146944



ICA FINISHED, 7 FOUND  
FINISHED AT: 6/27/88 15:40:47

1200 SCAN  
40:00 TIME

PROCEDURE: TCA  
 DATA FILE: 8060962  
 REFERENCE: 8060962  
 NAME LIST: VQN  
 REPORT: VQSTDS

DIAGNOSTIC REPORT

6/27/88 15:35:43

INITIALIZATION OPTION: 2    PROCESSING OPTION: 3

< ---- STANDARDS ---- >				>< --- PLUS UNKNOWN --- ><				>< - LIST NAMES - >	
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN	
6	6	1	99	18	7	1	89	VQSTDS/VQ1	
6	6	1	99	18	6	1	99	VQSTDS/VQ2	
6	6	1	99	18	6	1	99	VQSTDS/VQ3	

42 COMPOUNDS PROCESSED, 7 FOUND

< COMPOUND >		----- SEARCH -----							>< SAT ><		----- CHRD -----		
NO	LIB ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS	
1	VQ	1	-307	311	312	1	1	972	128	311	-1	1	
2	VQ	2	-616	620	619	-1	1	925	114	619		1	
3	VQ	3	-766	770	770		1	997	117	770		1	
4	VQ	4	-389	393	393		1	1000	65	393		1	
5	VQ	5	-729	733	732	-1	1	997	98	732		1	
6	VQ	6	-916	920	921	1	1	980	95	921		1	
7	VQ	7	-56	60					50				
8	VQ	8	-89	93					94				
9	VQ	9	-112	116					62				
10	VQ	10	-144	148					64				
11	VQ	11	-211	215	215		1	887	84	215		1	
12	VQ	12	-229	233					43				
13	VQ	13	-258	262					76				
14	VQ	14	-293	297					96				
15	VQ	15	-332	336					63				
16	VQ	16	-353	357					96				
17	VQ	17	-370	374					83				
18	VQ	18	-392	396					62				
19	VQ	19	-390	394					72				
20	VQ	20	-431	435					97				
21	VQ	21	-443	447					117				
22	VQ	22	-446	450					43				
23	VQ	23	-458	462					83				
24	VQ	24	-694	698					83				
25	VQ	25	-499	503					63				
26	VQ	26	-506	510					75				
27	VQ	27	-523	527					130				
28	VQ	28	-542	546					129				
29	VQ	29	-545	549					97				
30	VQ	30	-538	542					78	543		1	
31	VQ	31	-545	549					75				
32	VQ	32	-578	582					63				
33	VQ	33	-624	628					173				
34	VQ	34	-639	643					43				
35	VQ	35	-687	691					43	693		2	
36	VQ	36	-695	699					164				
37	VQ	37	-735	739					92	738		1	
38	VQ	38	-770	774					112				
39	VQ	39	-835	839					106				
0	VQ	40	-964	968					104				
+1	VQ	41	-1006	1010					106				
42	VQ	42	-973	977					106				



Data: 8060962.TI

06/27/88 14:55:00

Sample: JOB 806096-2 014426 SML

Conds.: GC4

Formula:

Instrument: 1050

Weight: 0.003

Submitted by:

Analyst: MGB

Acct. No.:

AMOUNT=AREA \* REF AMNT/(REF AREA \* RESP FACT)

Resp. fac. from Library Entry

No	Name
1	IS1 BROMOCHLOROMETHANE
2	IS2 1,4-DIFLUOROBENZENE
3	IS3 CHLOROBENZENE-D5
4	SS1 DICHLOROETHANE-D4
5	SS2 TOLUENE-D8
6	SS3 BROMOFLUOROBENZENE
7	45V CHLOROMETHANE
8	46V BROMOMETHANE
9	88V VINYL CHLORIDE
10	16V CHLOROETHANE
11	44V METHYLENE CHLORIDE
12	13H ACETONE
13	15H CARBON DISULFIDE
14	29V 1,1-DICHLOROETHENE
15	13V 1,1-DICHLOROETHANE
16	30V TRANS-1,2-DICHLOROETHENE
17	23V CHLOROFORM
18	10V 1,2-DICHLOROETHANE
19	14H 2-BUTANONE
20	11V 1,1,1-TRICHLOROETHANE
21	6V CARBON TETRACHLORIDE
22	19H VINYL ACETATE
23	48V BROMODICHLOROMETHANE
24	15V 1,1,2,2-TETRACHLOROETHANE
25	32V 1,2-DICHLOROPROPANE
26	33VT TRANS-1,3-DICHLOROPROPANE
27	87V TRICHLOROETHENE
28	51V DIBROMOCHLOROMETHANE
29	14V 1,1,2-TRICHLOROETHANE
30	4V BENZENE
31	33VC CIS-1,3-DICHLOROPROPENE
32	19V 2-CHLOROETHYL VINYL ETHER
33	47V BROMOFORM
34	17H 4-METHYL-2-PENTANONE
35	16H 2-HEXANONE
36	85V TETRACHLOROETHENE
37	86V TOLUENE
38	7V CHLOROBENZENE
39	38V ETHYLBENZENE
40	18H STYRENE
41	20H TOTAL XYLENES
42	XYLENES

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	311	10:22	1	1.000	A BB	58848.	50.000 UG/L	11.23
2	114	619	20:38	2	1.000	A BB	372353.	50.000 UG/L	11.23
3	117	770	25:40	3	1.000	A BB	326940.	50.000 UG/L	11.23
4	65	393	13:06	1	1.264	A BB	101408.	94.115 %	21.15
5	98	732	24:24	3	0.951	A BB	392510.	96.820 %	21.76
6	95	921	30:42	3	1.196	A BB	235960.	101.225 %	22.75
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	84	215	7:10	1	0.691	A BB	2578.	1.267 UG/L	0.28
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	78	543	18:06	2	0.877	A BB	489.	0.066 UG/L	0.01
31	NOT FOUND								
32	NOT FOUND								
33	NOT FOUND								
34	NOT FOUND								
35	43	693	23:06	3	0.900	A*BV	1575.	1.177 UG/L	0.26
36	NOT FOUND								
37	92	738	24:36	3	0.958	A BB	2340.	0.401 UG/L	0.09
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								

## GCMS - RESULTS

ATI I.D. : 80609602

TEST : SEMI-VOLATILE ORGANICS (EPA 625)

CLIENT : MONTGOMERY & ASSOCIATES  
PROJECT # : 661D  
PROJECT NAME : HASSAYAMPA  
CLIENT I.D. : 014426  
SAMPLE MATRIX : AQUEOUS

DATE SAMPLED : 06/16/88  
DATE RECEIVED : 06/17/88  
DATE EXTRACTED : 6/20/88  
DATE ANALYZED : 07/20/88  
UNITS : UG/L  
DILUTION FACTOR : 1

COMPOUNDS	RESULTS
N-NITROSODIMETHYLAMINE	<10
PHENOL	<10
ANILINE	<10
BIS (2-CHLOROETHYL) ETHER	<10
2-CHLOROPHENOL	<10
1,3-DICHLOROBENZENE	<10
1,4-DICHLOROBENZENE	<10
BENZYL ALCOHOL	<10
1,2-DICHLOROBENZENE	<10
2-METHYLPHENOL	<10
BIS (2-CHLOROISOPROPYL) ETHER	<10
4-METHYLPHENOL	<10
N-NITROSO-DI-N-PROPYLAMINE	<10
HEXACHLOROETHANE	<10
NITROBENZENE	<10
ISOPHORONE	<10
2-NITROPHENOL	<10
2,4-DIMETHYLPHENOL	<10
BENZOIC ACID	<50
BIS (2-CHLOROETHOXY) METHANE	<10
2,4-DICHLOROPHENOL	<10
1,2,4-TRICHLOROBENZENE	<10
NAPHTHALENE	<10
4-CHLOROANILINE	<10
HEXACHLOROBUTADIENE	<10
4-CHLORO-3-METHYLPHENOL	<10
2-METHYLNAPHTHALENE	<10
HEXACHLOROCYCLOPENTADIENE	<10
2,4,6-TRICHLOROPHENOL	<10
2,4,5-TRICHLOROPHENOL	<50
2-CHLORONAPHTHALENE	<10
2-NITROANILINE	<50
DIMETHYLPHTHALATE	<10
ACENAPHTHYLENE	<10
3-NITROANILINE	<50
ACENAPHTHENE	<10
2,4-DINITROPHENOL	<50
4-NITROPHENOL	<50
DIBENZOFURAN	<10
2,4-DINITROTOLUENE	<10
2,6-DINITROTOLUENE	<10



## GCMS - RESULTS

ATI I.D. : 80609602

TEST : SEMI-VOLATILE ORGANICS (EPA 625)

COMPOUNDS	RESULTS
DIETHYLPHTHALATE	<10
4-CHLOROPHENYL-PHENYLEETHER	<10
FLUORENE	<10
4-NITROANILINE	<50
4,6-DINITRO-2-METHYLPHENOL	<50
N-NITROSODIPHENYLAMINE	<10
4-BROMOPHENYL-PHENYLEETHER	<10
HEXACHLOROBENZENE	<10
PENTACHLOROPHENOL	<50
PHENANTHRENE	<10
ANTHRACENE	<10
DI-N-BUTYLPHTHALATE	<10
FLUORANTHENE	<10
BENZIDINE	<100
PYRENE	<10
BUTYLBENZYLPHTHALATE	<10
3,3'-DICHLOROBENZIDINE	<20
BENZO (a) ANTHRACENE	<10
BIS (2-ETHYLHEXYL) PHTHALATE	<10
CHRYSENE	<10
DI-N-ETHYLPHTHALATE	<10
BENZO (b) FLUORANTHENE	<10
BENZO (k) FLUORANTHENE	<10
BENZO (a) PYRENE	<10
INDENO (1,2,3-cd) PYRENE	<10
DIBENZO (a,h) ANTHRACENE	<10
BENZO (g,h,i) PERYLENE	<10

## SURROGATE PERCENT RECOVERIES

NITROBENZENE-D5 (%)	58
2-FLUOROBIPHENYL (%)	62
TERPHENYL (%)	95
PHENOL-D5 (%)	35
2-FLUOROPHENOL (%)	76
2,4,6-TRIBROMOPHENOL (%)	34

625 - mw - 3uB

RIC  
07/20/88 23:14:00

DATA: 88M3B2348 #1  
CALI: 88M3B2348 #2

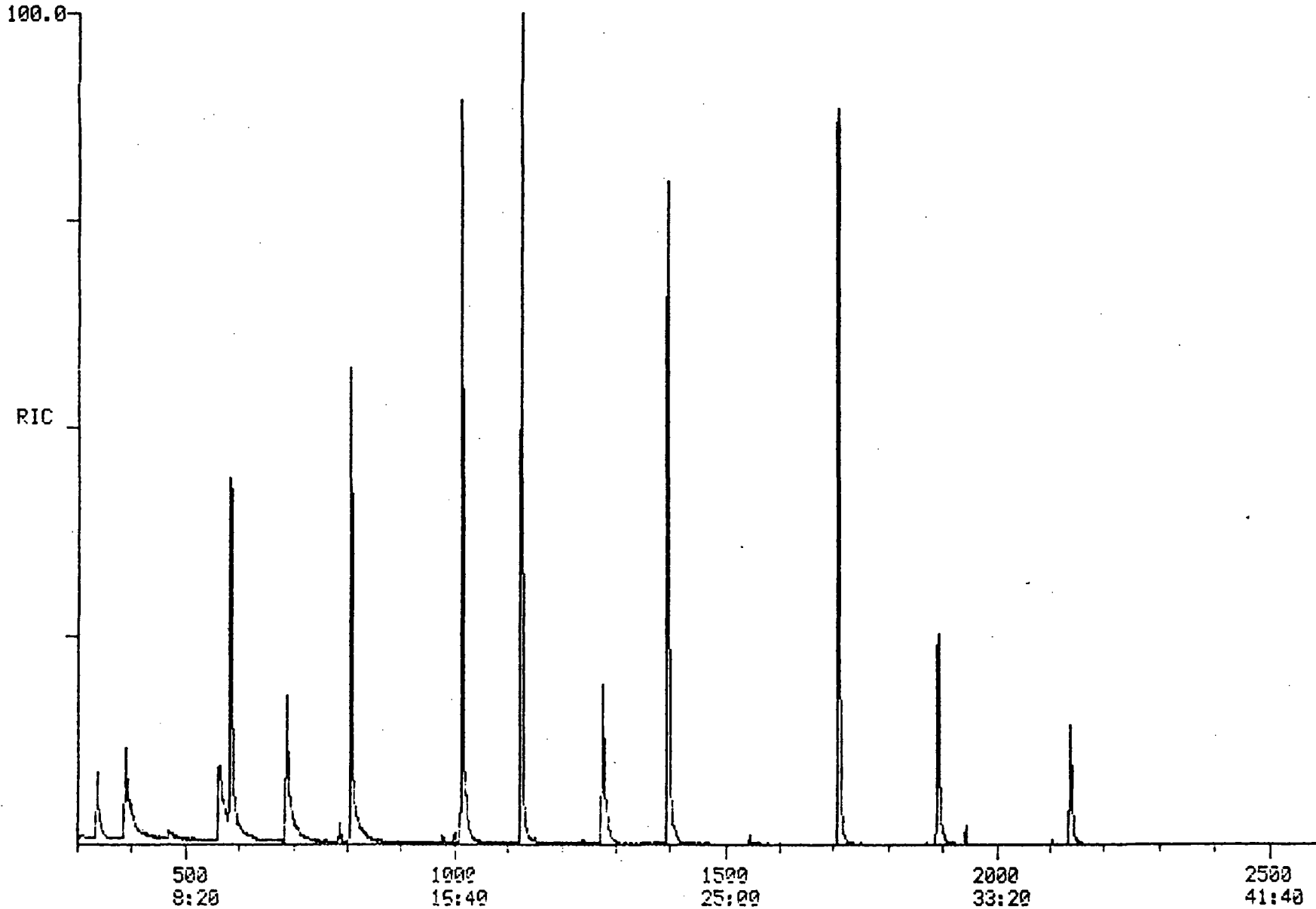
SCANS 300 TO 2600

SAMPLE: ~~807208-3~~ 806096-2

CONDS.: 1UL 1L-2X1ML

RANGE: G 1,2500 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

329728.



MTCA FINISHED, 15 FOUND  
FINISHED AT: 7/21/88 0:07:31

SCAN  
TIME

Data: 88M3B2348.TI

07/20/88 23:14:00

Sample: 807208-3

Conds.: IUL 1L->2X1ML

Standard ID: 2-BNA-4-1C

Instrument: 5100

Sensitivity ID: 2343

Analyst: RJT Inst Cali:

AMOUNT=AREA \* REF AMNT/(REF AREA \* RESP FACT)

Resp. fac. from Library Entry

- NO NAME
- 1 IS1 1,4-DICHLOROBENZENE-D4 (SV#1)
- 2 IS2 NAPHTHALENE-D8 (SV#2)
- 3 IS3 ACENAPHTHENE-D10 (SV#3)
- 4 IS4 PHENANTHRENE-D10 (SV#4)
- 5 IS5 CHRYSENE-D12 (SV#5)
- 6 IS6 PERYLENE-D12 (SV#6)
- 7 SS2 PHENOL-D5 (SV#7)
- 8 SS1 2-FLUOROPHENOL (SV#8)
- 9 SS3 NITROBENZENE-D5 (SV#9)
- 10 SS4 2-FLUOROBIPHENYL (SV#10)
- 11 SS5 2,4,6-TRIBROMOPHENOL (SV#11)
- 12 SS6 TERPHENYL-D14 (SV#12)
- 13 62B N-NITROSODIPHENYLAMINE (SV#60)
- 14 68B DI-N-BUTYL PHTHALATE (SV#66)
- 15 66B BIS(2-ETHYLHEXYL)PHTHALATE (SV#73)
- 16 METHANE, DICHLORO-
- 17 UNKNOWN H.C.
- 18 UNKNOWN
- 19 CYCLOPENTASILOXANE, DECAMETHYL-
- 20 UNKNOWN
- 21 D4-1,4-DICHLOROBENZENE (INT. STD.)
- 22 D8-NAPHTHALENE (INT. STD.)
- 23 D10-ACENAPHTHENE (INT. STD.)
- 24 D10-PHENANTHRENE (INT. STD.)
- 25 D12-CHRYSENE (INT. STD.)
- 26 D12-PERYLENE (INT. STD.)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	584	9:44	1	1.000	A BB	100166.	40.000 NG/UL	4.74
2	136	806	13:26	2	1.000	A BB	303378.	40.000 NG/UL	4.74
3	164	1127	18:47	3	1.000	A BB	216834.	40.000 NG/UL	4.74
4	188	1396	23:16	4	1.000	A BB	326054.	40.000 NG/UL	4.74
5	240	1892	31:32	5	1.000	A BB	129133.	40.000 NG/UL	4.74
6	264	2139	35:39	6	1.000	A BB	82381.	40.000 NG/UL	4.74
7	99	562	9:22	1	0.962	A BB	87872.	34.776 NG/UL	4.12
8	112	389	6:29	1	0.666	A BB	74650.	76.214 NG/UL	9.03
9	82	688	11:28	2	0.854	A BB	120108.	58.080 NG/UL	6.88
10	172	1014	16:54	3	0.900	A BB	293033.	61.607 NG/UL	7.30
11	330	1276	21:16	3	1.132	A BB	36140.	33.536 NG/UL	3.97
12	244	1709	28:29	5	0.903	A BB	301295.	95.195 NG/UL	11.28
13	169	1277	21:17	4	0.915	A BB	2412.	1.452 NG/UL	0.17
14	149	1545	25:45	4	1.107	A BB	9559.	1.210 NG/UL	0.14
15	149	1943	32:23	5	1.027	A BB	6126.	2.592 NG/UL	0.31
16	RIC	174	2:54	23	0.154	A BB	113186.	11.434	1.35
17	RIC	338	5:38	23	0.300	A BB	124875.	12.615	1.49
18	RIC	470	7:50	23	0.417	A BB	31228.	3.155	0.37
19	RIC	788	13:08	23	0.699	A BB	21917.	2.214	0.26
20	RIC	1001	16:41	23	0.888	A BB	7735.	0.781	0.09
21	RIC	584	9:44	21	1.000	A BB	648199.	40.000 UG/L	4.74
22	RIC	307	13:27	22	1.000	A BB	722412.	40.000 UG/L	4.74
23	RIC	1127	18:47	23	1.000	A BB	989928.	40.000 UG/L	4.74
24	RIC	1396	23:16	24	1.000	A BB	982236.	40.000 UG/L	4.74
25	RIC	1892	31:32	25	1.000	A BB	396353.	40.000 UG/L	4.74
26	RIC	2139	35:39	26	1.000	A BB	243873.	40.000 UG/L	4.74

PROCEDURE: TCA  
 DATA FILE: 88M3B2348  
 REFERENCE: 88M3B2348  
 NAME LIST: K1  
 REPORT: X1

DIAGNOSTIC REPORT

7/20/88 23:58:52

INITIALIZATION OPTION: 2 PROCESSING OPTION: 3

< ----- STANDARDS ----- >				--- PLUS UNKNOWN --- >				< -- LIST NAMES -- >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
2	2	2	271	11	2	1	0	X1/Z1
2	2	1	0	9	4	2	239	X1/ZA
2	2	2	231	9	2	1	0	X2/Z2
2	2	1	0	9	3	1	15	X2/ZB
2	2	1	0	12	2	1	0	X3/Z3
2	2	1	0	12	4	1	28	X3/ZC
2	2	1	0	11	4	1	703	X4/Z4
2	2	1	0	10	4	1	44	X5/Z5
1	4	0	0	7	0	1	0	X6/Z6

80 COMPOUNDS PROCESSED, 15 FOUND

< COMPOUND >			----- SEARCH ----- >					> SAT <		----- CHRO ----- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	SV	1	-591	586	584	-2	2	986	.	152	584	.	1
2	SV	2	-811	804	806	2	1	985	.	136	806	.	1
3	SV	14	-205	194	.	.	.	.	.	42	.	.	.
4	SV	15	-573	566	.	.	.	.	.	94	.	.	.
5	SV	16	-558	551	.	.	.	.	.	93	.	.	.
6	SV	17	-567	560	.	.	.	.	.	93	.	.	.
7	SV	18	-568	561	.	.	.	.	.	128	.	.	.
8	SV	19	-584	577	.	.	.	.	.	146	.	.	.
9	SV	20	-594	587	.	.	.	.	.	146	.	.	.
10	SV	21	-642	635	.	.	.	.	.	108	.	.	.
11	SV	22	-624	617	.	.	.	.	.	146	.	.	.
12	SV	7	-571	561	562	1	1	996	.	99	562	.	1
13	SV	8	-405	391	389	-2	2	977	.	112	389	.	1
14	SV	23	-668	661	.	.	.	.	.	108	.	.	.
15	SV	24	-659	651	.	.	.	.	.	45	.	.	.
16	SV	25	-697	690	.	.	.	.	.	108	.	.	.
17	SV	26	-683	676	.	.	.	.	.	70	.	.	.
18	SV	27	-675	668	.	.	.	.	.	117	.	.	.
19	SV	3	-1130	1126	1127	1	2	997	.	164	1127	.	1
20	SV	28	-696	690	.	.	.	.	.	77	.	.	.
21	SV	29	-741	736	.	.	.	.	.	82	.	.	.
22	SV	30	-753	748	.	.	.	.	.	139	.	.	.
23	SV	31	-781	776	.	.	.	.	.	122	.	.	.
24	SV	32	-820	815	.	.	.	.	.	122	.	.	.
25	SV	33	-792	787	.	.	.	.	.	93	.	.	.
26	SV	34	-804	799	.	.	.	.	.	162	.	.	.
27	SV	9	-694	688	688	.	1	982	.	82	688	.	1
28	SV	35	-807	802	.	.	.	.	.	180	.	.	.
29	SV	36	-814	809	.	.	.	.	.	128	.	.	.
30	SV	37	-851	846	.	.	.	.	.	127	.	.	.
31	SV	38	-855	850	.	.	.	.	.	225	.	.	.
32	SV	39	-945	941	.	.	.	.	.	107	.	.	.
33	SV	40	-940	936	.	.	.	.	.	142	.	.	.
34	SV	4	-1400	1396	1396	.	1	974	.	188	1396	.	1
35	SV	41	-984	982	.	.	.	.	.	237	.	.	.
36	SV	42	-1005	1002	.	.	.	.	.	196	.	.	.
37	SV	43	-1021	1018	.	.	.	.	.	196	.	.	.
38	SV	44	-1026	1023	.	.	.	.	.	162	.	.	.
39	SV	45	-1068	1065	.	.	.	.	.	65	.	.	.
40	SV	46	-1108	1105	.	.	.	.	.	163	.	.	.
41	SV	47	-1100	1097	.	.	.	.	.	152	.	.	.
42	SV	48	-1066	1063	.	.	.	.	.	138	.	.	.
43	SV	49	-1135	1132	.	.	.	.	.	153	.	.	.
44	SV	50	-1163	1160	.	.	.	.	.	184	.	.	.
45	SV	10	-1017	1014	1014	.	1	997	.	172	1014	.	1

45	SV	10	-1017	1014	1014	.	1	997	.	172	1014	.	1
46	SV	11	-1280	1276	1276	.	1	989	.	330	1276	.	1
47	SV	51	-1214	1210	.	.	.	.	.	139	.	.	.
48	SV	52	-1167	1164	.	.	.	.	.	168	.	.	.
49	SV	53	-1187	1184	.	.	.	.	.	89	.	.	.
50	SV	54	-1116	1113	.	.	.	.	.	165	.	.	.
51	SV	55	-1241	1237	.	.	.	.	.	149	.	.	.
52	SV	56	-1240	1236	.	.	.	.	.	204	.	.	.
53	SV	57	-1229	1225	.	.	.	.	.	166	.	.	.
54	SV	58	-1279	1275	.	.	.	.	.	138	.	.	.
55	SV	5	-1896	1892	1892	.	1	849	.	240	1892	.	1
56	SV	59	-1260	1265	.	.	.	.	.	198	.	.	.
57	SV	60	-1266	1270	1277	7	1	749	.	169	1277	.	1
58	SV	61	-1328	1331	.	.	.	.	.	248	.	.	.
59	SV	62	-1346	1349	.	.	.	.	.	284	.	.	.
60	SV	63	-1387	1389	.	.	.	.	.	266	.	.	.
61	SV	64	-1404	1406	.	.	.	.	.	178	.	.	.
62	SV	65	-1412	1414	.	.	.	.	.	178	.	.	.
63	SV	66	-1549	1548	1545	-3	1	995	.	149	1545	.	1
64	SV	67	-1626	1624	.	.	.	.	.	202	.	.	.
65	SV	6	-2144	2139	2139	.	1	982	.	264	2139	.	1
66	SV	12	-1713	1709	1709	.	1	987	.	244	1709	.	1
67	SV	68	-1713	1709	.	.	.	.	.	184	.	.	.
68	SV	69	-1664	1660	.	.	.	.	.	202	.	.	.
69	SV	70	-1824	1820	.	.	.	.	.	149	.	.	.
70	SV	71	-1910	1906	.	.	.	.	.	252	.	.	.
71	SV	72	-1894	1890	.	.	.	.	.	228	.	.	.
72	SV	73	-1948	1943	1943	.	1	993	.	149	1943	.	1
73	SV	74	-1901	1897	.	.	.	.	.	228	.	.	.
74	SV	75	-2057	2057	.	.	.	.	.	149	.	.	.
75	SV	76	-2084	2084	.	.	.	.	.	252	.	.	.
76	SV	77	-2088	2088	.	.	.	.	.	252	.	.	.
77	SV	78	-2135	2135	.	.	.	.	.	252	.	.	.
78	SV	79	-2307	2307	.	.	.	.	.	276	.	.	.
79	SV	80	-2313	2313	.	.	.	.	.	278	.	.	.
80	SV	81	-2348	2348	.	.	.	.	.	276	.	.	.





GAS CHROMATOGRAPHY - RESULTS

ATI I.D. : 80609602

TEST : ORGANOCHLORINE PESTICIDES AND PCB'S (EPA 608)

CLIENT	: MONTGOMERY & ASSOCIATES	DATE SAMPLED	: 06/16/88
PROJECT #	: 661D	DATE RECEIVED	: 06/17/88
PROJECT NAME	: HASSAYAMPA	DATE EXTRACTED	: 6/20/88
CLIENT I.D.	: <u>014426</u>	DATE ANALYZED	: 07/07/88
SAMPLE MATRIX	: AQUEOUS	UNITS	: UG/L
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
ALDRIN	<0.05
ALPHA BHC	<0.05
BETA BHC	<0.05
GAMMA BHC (LINDANE)	<0.05
DELTA BHC	<0.05
CHLORDANE	<0.5
4,4'-DDD	<0.1
4,4'-DDE	<0.1
4,4'-DDT	<0.1
DIELDRIN	<0.1
ENDOSULFAN I	<0.05
ENDOSULFAN II	<0.1
ENDOSULFAN SULFATE	<0.1
ENDRIN	<0.1
ENDRIN ALDEHYDE	<0.1
HEPTACHLOR	<0.05
HEPTACHLOR EPOXIDE	<0.05
METHOXYCHLOR	<0.5
TOXAPHENE	<1.0
AROCLOR 1016	<0.5
AROCLOR 1221	<0.5
AROCLOR 1232	<0.5
AROCLOR 1242	<0.5
AROCLOR 1248	<0.5
AROCLOR 1254	<1.0
AROCLOR 1260	<1.0

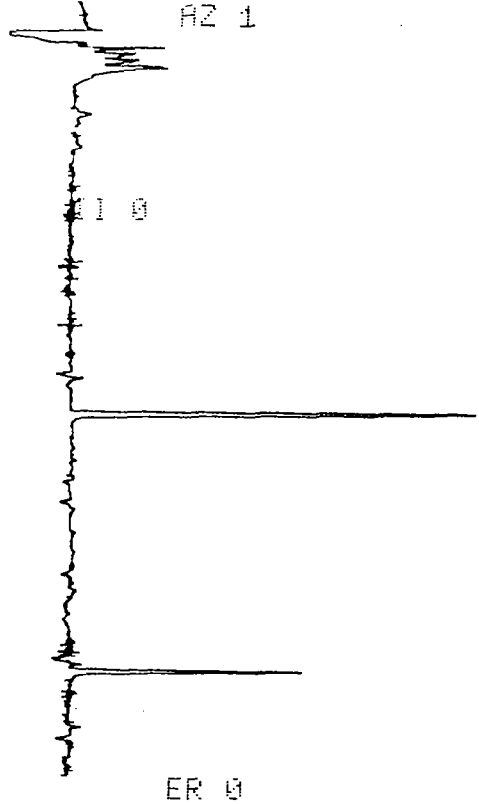
SURROGATE PERCENT RECOVERIES

ISODRIN %

94

24	0.	19.72	7299	02
25	0.	19.83	1598	03
TOTALS	14.626		129730	

ANNEL A INJECT 07-07-88 20:26:52



*MW-3UB*

*806096-2  
12:10mL*

608/8080 07-07-88 20:27:52 CH="A" PS= 1.

FILE 2. METHOD 5. RUN 48 INDEX 38

NAME	CONC	RT	AREA	BC	RF
HEPT	0.003	8.68	1650	02	503140.
HEPT-EPOX	0.338	9.03	1897	02	5620.
3	0.	9.17	2252	02	
4	0.	9.31	1671	02	
5	0.	9.52	1992	02	
ENDO-I	0.006	9.72	2765	03	442140.
DIELD/DDE	6.332	10.64	✓ 9707	03	7850.
ENDOII	0.177	12.04	1746	02	9900.
ENDALD	0.672	12.51	1755	02	2610.
10	0.	12.68	3153	02	
DIELDRIN	0.007	13.12	2361	03	337540.
DDT	0.017	16.28	4269	02	250730.
13	0.	16.67	3247	02	
14	0.	16.83	2283	02	
END KETO	0.012	17.14	3619	02	304090.
16	0.	17.32	27830	02	
METHOXYCHL	0.056	17.58	2637	03	47025.
17	0.	18.76	2309	02	
19	0.	18.93	2513	02	
20	0.	19.17	5663	02	
21	0.	19.49	1789	03	
TOTALS	7.62		127108		

*clean  
94070*

038



MW-1UB  
and  
MW-3UB

QUALITY CONTROL DATA

TEST : VOLATILE ORGANICS (EPA 624)

ATI I.D. : 806096

CLIENT : MONTGOMERY & ASSOCIATES  
PROJECT # : 661D  
PROJECT NAME : HASSAYAMPA

REF. I.D. : 80609602  
DATE ANALYZED : 06/27/88  
SAMPLE MATRIX : AQUEOUS  
UNITS : UG/L

COMPOUNDS	SAMPLE RESULT	CONC. SPIKED	SPIKED SAMPLE	% SPIKED REC.	DUP. SAMPLE	DUP. % SPIKED REC.	RPD
1,1-DICHLOROETHENE	ND	50	50	100	50	100	0
TRICHLOROETHENE	ND	50	50	100	51	102	2
CHLOROBENZENE	ND	50	50	100	49	98	2
TOLUENE	ND	50	50	100	58	116	16
BENZENE	ND	50	49	98	51	102	4

Original Quality Control Data  
for MW-1UB (014425) +  
MW-3UB (014426)  
1) DSS's  
2) Chromatograms  
3) Integration reports  
4) Fit data for mass spec  
Info. for 1) ms/msp  
2) LCS  
3) STD mix

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

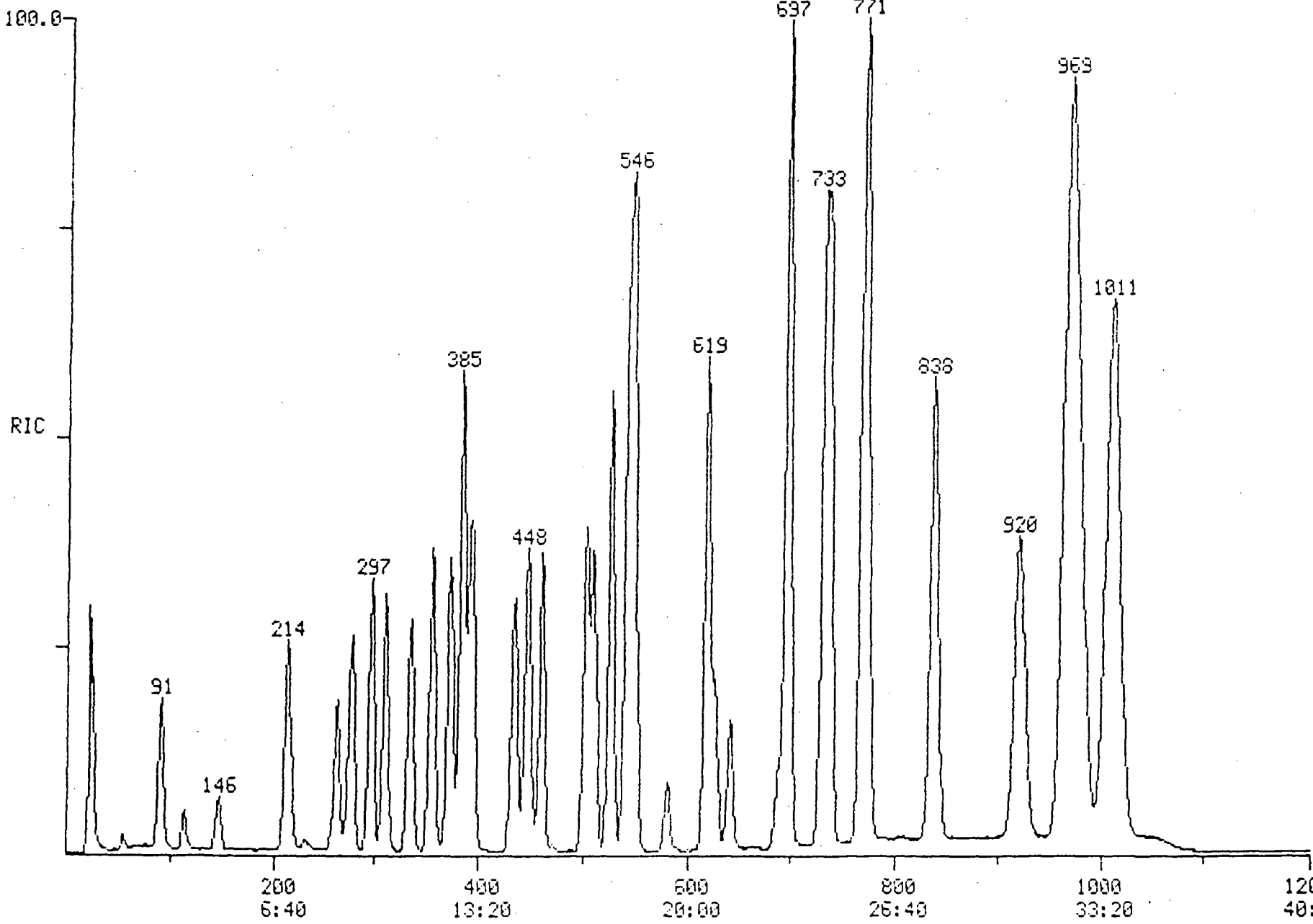
$$\text{RPD (Relative \% Difference)} = \frac{(\text{Spiked Sample Result} - \text{Duplicate Spike Sample Result})}{\text{Average of Spiked Sample}} \times 100$$

TR - Compound detected at an unquantifiable trace level

624 mw-1UB  
mw-3UB

RIC DATA: 8060962MS #1 SCANS 1 TO 1200  
05/27/88 16:04:00 CALI: 8060962MS #2  
SAMPLE: JOB 806096-2 MS W/ STD MIX 250NG 5ML  
CONDS.: GC4  
RANGE: G 1.1200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

217600



TCA FINISHED, 40 FOUND  
FINISHED AT 6/27/88 16:50:58

1200 SCAN  
40:00 TIME

PROCEDURE: TCA  
 DATA FILE: 8060962MS  
 REFERENCE: 8060962MS  
 NAME LIST: VGN  
 REPORT: VGSTDS

DIAGNOSTIC REPORT

6/27/88 16:45:21

INITIALIZATION OPTION: 2    PROCESSING OPTION: 3

< ---- STANDARDS ---- >				>< --- PLUS UNKNOWN --- ><				>< - LIST NAMES - >	
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN	
6	6	1	58	18	17	1	82	VGSTDS/VQ1	
6	6	1	58	18	17	2	50	VGSTDS/VQ2	
6	6	1	58	18	18	2	87	VGSTDS/VQ3	

42 COMPOUNDS PROCESSED, 40 FOUND

< COMPOUND ><			----- SEARCH -----					>< SAT ><		----- CHRO ----- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	VQ	1	-307	310	311	1	1	968	.	128	311	.	1
2	VQ	2	-616	619	619	.	1	948	.	114	619	.	1
3	VQ	3	-766	769	769	.	1	993	.	117	769	.	1
4	VQ	4	-389	392	392	.	1	997	.	65	392	.	1
5	VQ	5	-729	732	732	.	1	997	.	98	732	.	1
6	VQ	6	-916	919	920	1	1	976	.	95	920	.	1
7	VQ	7	-56	59	57	-2	1	939	.	50	57	.	1
8	VQ	8	-89	92	91	-1	1	933	.	94	91	.	1
9	VQ	9	-112	115	114	-1	1	858	.	62	114	.	1
10	VQ	10	-144	147	146	-1	1	942	.	64	146	.	1
11	VQ	11	-211	214	214	.	1	991	.	84	214	.	1
12	VQ	12	-229	232	.	.	.	.	.	43	232	.	1
13	VQ	13	-258	261	262	1	1	952	.	76	262	.	1
14	VQ	14	-293	296	297	1	1	995	.	96	297	.	1
15	VQ	15	-332	335	336	1	1	997	.	63	336	.	1
16	VQ	16	-353	356	356	.	1	991	.	96	356	.	1
17	VQ	17	-370	373	374	1	1	953	.	83	374	.	1
18	VQ	18	-392	395	395	.	1	999	.	62	396	1	1
19	VQ	19	-390	393	394	1	1	919	.	72	393	-1	1
20	VQ	20	-431	434	434	.	1	994	.	97	435	1	1
21	VQ	21	-443	446	446	.	2	938	.	117	446	.	1
22	VQ	22	-446	449	449	.	1	993	.	43	449	.	1
23	VQ	23	-458	461	461	.	1	996	.	83	461	.	1
24	VQ	24	-694	697	696	-1	1	999	.	83	696	.	1
25	VQ	25	-499	502	502	.	1	923	.	63	502	.	1
26	VQ	26	-506	509	.	.	.	.	.	75	510	.	1
27	VQ	27	-523	526	526	.	1	999	.	130	526	.	1
28	VQ	28	-542	545	545	.	1	998	.	129	545	.	1
29	VQ	29	-545	548	548	.	1	998	.	97	548	.	1
30	VQ	30	-538	541	541	.	1	993	.	78	541	.	1
31	VQ	31	-545	548	548	.	1	999	.	75	548	.	1
32	VQ	32	-578	581	581	.	1	984	.	63	580	-1	1
33	VQ	33	-624	627	626	-1	1	996	.	173	627	1	1
34	VQ	34	-639	642	642	.	1	992	.	43	642	.	1
35	VQ	35	-687	690	689	-1	1	986	.	43	689	.	1
36	VQ	36	-695	698	698	.	1	995	.	164	698	.	1
37	VQ	37	-735	738	737	-1	1	908	.	92	738	1	1
38	VQ	38	-770	773	772	-1	1	993	.	112	773	1	1
39	VQ	39	-835	838	838	.	1	937	.	106	838	.	1
40	VQ	40	-964	968	968	.	1	1000	.	104	968	.	1
41	VQ	41	-1006	1010	1011	1	1	907	.	106	1011	.	1
42	VQ	42	-973	977	978	1	2	907	.	106	978	.	1

Data: 8060962MS.TI

06/27/88 16:04:00

Sample: JOB 806096-2 MS W/ STD MIX 250NG 5ML

Standards: GC4

Formula:

Instrument: 1050

Weight: 0.003

Submitted by:

Analyst: MGB

Acct. No.:

AMOUNT=AREA \* REF AMNT/(REF AREA \* RESP FACT)

Resp. fac. from Library Entry

No	Name
1	IS1 BROMOCHLOROMETHANE
2	IS2 1,4-DIFLUOROBENZENE
3	IS3 CHLOROBENZENE-D5
4	SS1 DICHLOROETHANE-D4
5	SS2 TOLUENE-D8
6	SS3 BROMOFLUOROBENZENE
7	45V CHLOROMETHANE
8	46V BROMOMETHANE
9	88V VINYL CHLORIDE
10	16V CHLOROETHANE
11	44V METHYLENE CHLORIDE
12	13H ACETONE
13	15H CARBON DISULFIDE
14	29V 1,1-DICHLOROETHENE
15	13V 1,1-DICHLOROETHANE
16	30V TRANS-1,2-DICHLOROETHENE
17	23V CHLOROFORM
3	10V 1,2-DICHLOROETHANE
19	14H 2-BUTANONE
20	11V 1,1,1-TRICHLOROETHANE
21	6V CARBON TETRACHLORIDE
22	19H VINYL ACETATE
23	48V BROMODICHLOROMETHANE
24	15V 1,1,2,2-TETRACHLOROETHANE
25	32V 1,2-DICHLOROPROPANE
26	33VT TRANS-1,3-DICHLOROPROPANE
27	87V TRICHLOROETHENE
28	51V DIBROMOCHLOROMETHANE
29	14V 1,1,2-TRICHLOROETHANE
30	4V BENZENE
31	33VC CIS-1,3-DICHLOROPROPENE
32	19V 2-CHLOROETHYL VINYL ETHER
33	47V BROMOFORM
34	17H 4-METHYL-2-PENTANONE
35	16H 2-HEXANONE
36	85V TETRACHLOROETHENE
37	86V TOLUENE
38	7V CHLOROBENZENE
39	38V ETHYLBENZENE
40	18H STYRENE
41	20H TOTAL XYLENES
42	XYLENES

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	311	10:22	1	1.000	A BB	62446.	50.000 UG/L	2.03
2	114	619	20:38	2	1.000	A BB	379929.	50.000 UG/L	2.03
3	117	769	25:38	3	1.000	A BB	328188.	50.000 UG/L	2.03
4	65	392	13:04	1	1.260	A BB	108099.	94.544 %	3.83
5	98	732	24:24	3	0.952	A BB	392239.	96.385 %	3.91
6	95	920	30:40	3	1.196	A BB	231030.	98.733 %	4.00
7	50	57	1:54	1	0.183	A BB	12548.	31.192 UG/L	1.26
8	94	91	3:02	1	0.293	A BB	93817.	49.420 UG/L	2.00
9	62	114	3:48	1	0.367	A BB	39821.	144.643 UG/L	5.86
10	64	146	4:52	1	0.469	A BB	52047.	52.009 UG/L	2.11
11	84	214	7:08	1	0.688	A BB	99850.	46.232 UG/L	1.87
12	43	232	7:44	1	0.746	A BB	14860.	30.368 UG/L	1.23
13	76	262	8:44	1	0.842	A BB	209853.	63.284 UG/L	2.57
14	96	297	9:54	1	0.955	A BB	98665.	49.611 UG/L	2.01
15	63	336	11:12	1	1.080	A BB	164970.	47.697 UG/L	1.93
16	96	356	11:52	1	1.145	A BB	107265.	49.896 UG/L	2.02
17	83	374	12:28	1	1.203	A BB	204515.	49.197 UG/L	1.99
18	62	396	13:12	1	1.273	A BB	125623.	48.209 UG/L	1.95
19	72	393	13:06	2	0.635	A BB	6726.	40.442 UG/L	1.64
20	97	435	14:30	2	0.703	A BB	110862.	51.275 UG/L	2.08
21	117	446	14:52	2	0.721	A VB	109880.	52.140 UG/L	2.11
22	43	449	14:58	2	0.725	A BB	183172.	57.715 UG/L	2.34
23	83	461	15:22	2	0.745	A BB	187354.	52.427 UG/L	2.13
24	83	696	23:12	2	1.124	A BB	197528.	49.264 UG/L	2.00
25	63	502	16:44	2	0.811	A BB	144027.	48.499 UG/L	1.97
26	75	510	17:00	2	0.824	A BB	212447.	51.029 UG/L	2.07
27	130	526	17:32	2	0.850	A BB	144355.	50.470 UG/L	2.05
8	129	545	18:10	2	0.880	A BB	136456.	53.590 UG/L	2.17
29	97	548	18:16	2	0.885	A BB	124984.	49.123 UG/L	1.99
30	78	541	18:02	2	0.874	A BB	367156.	48.774 UG/L	1.98
31	75	548	18:16	2	0.885	A BB	68590.	49.997 UG/L	2.03
32	63	580	19:20	2	0.937	A BB	30195.	40.391 UG/L	1.64
33	173	627	20:54	2	1.013	A BB	77854.	54.576 UG/L	2.21
34	43	642	21:24	3	0.835	A BB	100431.	48.741 UG/L	1.98
35	43	689	22:58	3	0.896	A BB	67438.	50.216 UG/L	2.04
36	164	698	23:16	3	0.908	A BB	133609.	49.299 UG/L	2.00
37	92	738	24:36	3	0.960	A BB	292551.	49.976 UG/L	2.03
38	112	773	25:46	3	1.005	A BB	332425.	50.254 UG/L	2.04
39	106	838	27:56	3	1.090	A BB	152014.	49.359 UG/L	2.00
40	104	968	32:16	3	1.259	A BB	648016.	146.413 UG/L	5.94
41	106	1011	33:42	3	1.315	A BB	316112.	114.877 UG/L	4.66
42	106	978	32:36	3	1.272	A BB	169311.	56.536 UG/L	2.29

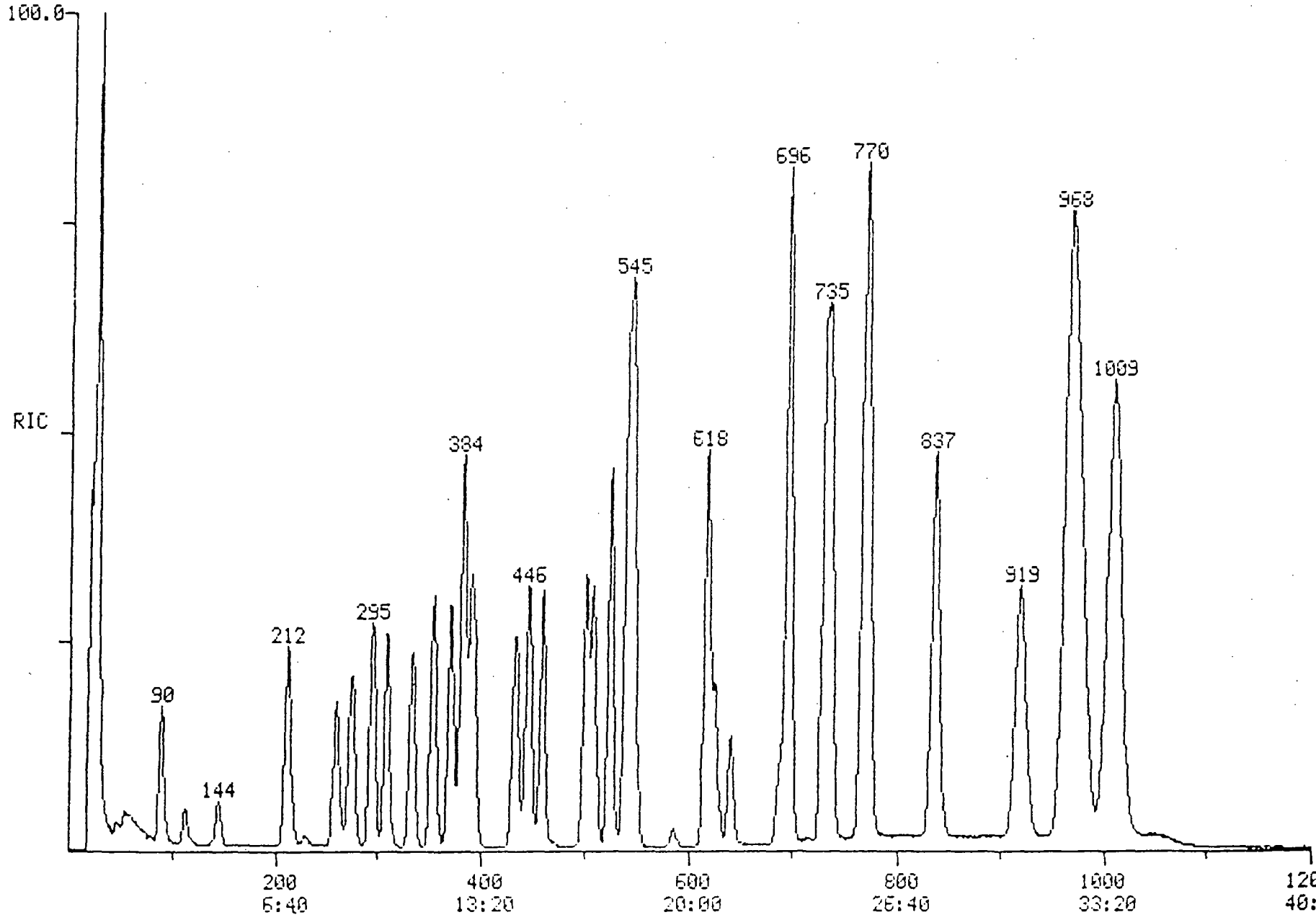
624 MW-1UB  
MW-3UB

RIC  
06/27/88 16:58:00  
SAMPLE: JOB 806096-2 MSD  
CONDS.: GC4  
RANGE: G 1.1200 LABEL: N 0. 4.0 QUAN: A 0. 1.0 J 0 BASE: U 20. 3

DATA: 8060962MSD #1 SCANS 1 TO 1200  
CALI: 8060962MSD #2

275456

TCA FINISHED, 40 FOUND  
FINISHED AT: 6/27/88 17:44:19



1200 SCAN  
40:00 TIME



PROCEDURE: TCA  
 DATA FILE: 8060962MSD  
 REFERENCE: 8060962MSD  
 NAME LIST: VQN  
 REPORT: VQSTDS

DIAGNOSTIC REPORT

6/27/88 17:38:44

INITIALIZATION OPTION: 2 PROCESSING OPTION: 3

< ---- STANDARDS ---- >				>< --- PLUS UNKNOWN --- ><				>< - LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
6	6	1	58	18	18	1	68	VQSTDS/VQ1
6	6	1	58	18	17	2	44	VQSTDS/VQ2
6	6	1	58	18	17	2	83	VQSTDS/VQ3

42 COMPOUNDS PROCESSED, 40 FOUND

< COMPOUND ><		----- SEARCH -----							>< SAT ><		----- CHRO ----- >		
NO	LIB ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS	
1	VQ	1	-307	309	310	1	1	969	128	309	-1	1	
2	VQ	2	-616	618	618	.	1	950	114	618	.	1	
3	VQ	3	-766	768	768	.	1	993	117	768	.	1	
4	VQ	4	-389	391	391	.	1	996	65	391	.	1	
5	VQ	5	-729	731	731	.	1	993	98	731	.	1	
6	VQ	6	-916	918	919	1	1	978	95	919	.	1	
7	VQ	7	-56	57	56	-1	1	962	50	56	.	1	
8	VQ	8	-89	90	90	.	1	995	94	90	.	1	
9	VQ	9	-112	113	112	-1	1	894	62	112	.	1	
10	VQ	10	-144	145	144	-1	1	996	64	144	.	1	
11	VQ	11	-211	212	212	.	1	991	84	212	.	1	
12	VQ	12	-229	230	230	.	1	906	43	231	1	1	
13	VQ	13	-258	259	260	1	1	954	76	260	.	1	
14	VQ	14	-293	294	295	1	1	998	96	295	.	1	
15	VQ	15	-332	334	334	.	1	993	63	334	.	1	
16	VQ	16	-353	355	355	.	1	997	96	355	.	1	
17	VQ	17	-370	372	372	.	1	953	83	372	.	1	
18	VQ	18	-392	394	394	.	1	997	62	394	.	1	
19	VQ	19	-390	392	392	.	1	920	72	392	.	1	
20	VQ	20	-431	433	433	.	1	990	97	434	1	1	
21	VQ	21	-443	445	445	.	2	940	117	445	.	1	
22	VQ	22	-446	448	448	.	1	997	43	448	.	1	
23	VQ	23	-458	460	460	.	1	998	83	460	.	1	
24	VQ	24	-694	696	695	-1	1	999	83	695	.	1	
25	VQ	25	-499	501	501	.	1	922	63	501	.	1	
26	VQ	26	-506	508	.	.	.	.	75	508	.	1	
27	VQ	27	-523	525	525	.	1	999	130	525	.	1	
28	VQ	28	-542	544	544	.	1	1000	129	544	.	1	
29	VQ	29	-545	547	547	.	1	997	97	547	.	1	
30	VQ	30	-538	540	540	.	1	991	78	540	.	1	
31	VQ	31	-545	547	547	.	1	1000	75	547	.	1	
32	VQ	32	-578	580	.	.	.	.	63	.	.	.	
33	VQ	33	-624	626	625	-1	1	998	173	625	.	1	
34	VQ	34	-639	641	641	.	1	991	43	641	.	1	
35	VQ	35	-687	689	688	-1	1	991	43	688	.	1	
36	VQ	36	-695	697	697	.	1	996	164	697	.	1	
37	VQ	37	-735	737	736	-1	1	908	92	737	1	1	
38	VQ	38	-770	772	771	-1	1	994	112	772	1	1	
39	VQ	39	-835	837	837	.	1	935	106	837	.	1	
0	VQ	40	-964	966	967	1	1	1000	104	967	.	1	
41	VQ	41	-1006	1009	1009	.	1	906	106	1010	1	1	
42	VQ	42	-973	975	977	2	2	907	106	977	.	1	

Data: 8060962MSD.TI

06/27/88 16:58:00

Sample: JOB 806096-2 MSD

Conds.: GC4

Formula:

Instrument: 1050

Weight: 0.003

Submitted by:

Analyst: MGB

Acct. No.:

AMOUNT=AREA \* REF AMNT/(REF AREA \* RESP FACT)

Resp. fac. from Library Entry

No	Name
1	IS1 BROMOCHLOROMETHANE
2	IS2 1,4-DIFLUOROBENZENE
3	IS3 CHLOROBENZENE-D5
4	SS1 DICHLOROETHANE-D4
5	SS2 TOLUENE-D8
6	SS3 BROMOFLUOROBENZENE
7	45V CHLOROMETHANE
8	46V BROMOMETHANE
9	88V VINYL CHLORIDE
10	16V CHLOROETHANE
11	44V METHYLENE CHLORIDE
12	13H ACETONE
13	15H CARBON DISULFIDE
14	29V 1,1-DICHLOROETHENE
15	13V 1,1-DICHLOROETHANE
16	30V TRANS-1,2-DICHLOROETHENE
17	23V CHLOROFORM
18	10V 1,2-DICHLOROETHANE
19	14H 2-BUTANONE
20	11V 1,1,1-TRICHLOROETHANE
21	6V CARBON TETRACHLORIDE
22	19H VINYL ACETATE
23	48V BROMODICHLOROMETHANE
24	15V 1,1,2,2-TETRACHLOROETHANE
25	32V 1,2-DICHLOROPROPANE
26	33VT TRANS-1,3-DICHLOROPROPANE
27	87V TRICHLOROETHENE
28	51V DIBROMOCHLOROMETHANE
29	14V 1,1,2-TRICHLOROETHANE
30	4V BENZENE
31	33VC CIS-1,3-DICHLOROPROPENE
32	19V 2-CHLOROETHYL VINYL ETHER
33	47V BROMOFORM
34	17H 4-METHYL-2-PENTANONE
35	16H 2-HEXANONE
36	85V TETRACHLOROETHENE
37	86V TOLUENE
38	7V CHLOROBENZENE
39	38V ETHYLBENZENE
40	18H STYRENE
41	20H TOTAL XYLENES
42	XYLENES

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	309	10:18	1	1.000	A BB	65555.	50.000 UG/L	1.97
2	114	618	20:36	2	1.000	A BB	383693.	50.000 UG/L	1.97
3	117	768	25:36	3	1.000	A BB	342075.	50.000 UG/L	1.97
4	65	391	13:02	1	1.265	A BB	111117.	92.574 %	3.64
5	98	731	24:22	3	0.952	A BB	410993.	96.894 %	3.81
6	95	919	30:38	3	1.197	A BB	240436.	98.582 %	3.88
7	50	56	1:52	1	0.181	A BB	14250.	33.742 UG/L	1.33
8	94	90	3:00	1	0.291	A BB	98476.	49.414 UG/L	1.94
9	62	112	3:44	1	0.362	A BB	46128.	159.606 UG/L	6.28
10	64	144	4:48	1	0.466	A BB	52238.	49.724 UG/L	1.96
11	84	212	7:04	1	0.686	A BB	117578.	51.858 UG/L	2.04
12	43	231	7:42	1	0.748	A BB	17771.	34.595 UG/L	1.36
13	76	260	8:40	1	0.841	A BB	262026.	75.270 UG/L	2.96
14	96	295	9:50	1	0.955	A BB	104680.	50.140 UG/L	1.97
15	63	334	11:08	1	1.081	A BB	184124.	50.710 UG/L	2.00
16	96	355	11:50	1	1.149	A BB	113713.	50.397 UG/L	1.98
17	83	372	12:24	1	1.204	A BB	218911.	50.163 UG/L	1.97
18	62	394	13:08	1	1.275	A BB	127985.	46.786 UG/L	1.84
19	72	392	13:04	2	0.634	A BB	7777.	46.302 UG/L	1.82
20	97	434	14:28	2	0.702	A BB	119431.	54.697 UG/L	2.15
21	117	445	14:50	2	0.720	A VB	121996.	57.322 UG/L	2.26
22	43	448	14:56	2	0.725	A BB	197627.	61.658 UG/L	2.43
23	83	460	15:20	2	0.744	A BB	205885.	57.047 UG/L	2.24
24	83	695	23:10	2	1.125	A BB	217812.	53.790 UG/L	2.12
25	63	501	16:42	2	0.811	A BB	152876.	50.974 UG/L	2.01
26	75	508	16:56	2	0.822	A BB	226941.	53.976 UG/L	2.12
27	130	525	17:30	2	0.850	A BV	148312.	51.345 UG/L	2.02
28	129	544	18:08	2	0.880	A BB	154168.	59.952 UG/L	2.36
29	97	547	18:14	2	0.885	A BB	127466.	49.607 UG/L	1.95
30	78	540	18:00	2	0.874	A BB	384090.	50.523 UG/L	1.99
31	75	547	18:14	2	0.885	A BB	73849.	53.302 UG/L	2.10
32	NOT FOUND								
33	173	625	20:50	2	1.011	A BB	95708.	66.434 UG/L	2.61
34	43	641	21:22	3	0.835	A BB	111153.	51.755 UG/L	2.04
35	43	688	22:56	3	0.896	A BV	73642.	52.610 UG/L	2.07
36	164	697	23:14	3	0.908	A BB	136579.	48.349 UG/L	1.90
37	92	737	24:34	3	0.960	A BB	356190.	58.378 UG/L	2.30
38	112	772	25:44	3	1.005	A BB	334896.	48.572 UG/L	1.91
39	106	837	27:54	3	1.090	A BB	162061.	50.485 UG/L	1.99
40	104	967	32:14	3	1.259	A BB	686128.	148.731 UG/L	5.85
41	106	1010	33:40	3	1.315	A BB	337360.	117.622 UG/L	4.63
42	106	977	32:34	3	1.272	A BB	178976.	57.338 UG/L	2.26



Analytical Technologies, Inc

MW-1UB  
and  
MW-3UB

ACCESSION: 806096

QUALITY CONTROL DATA: 188  
METHOD 624 & 8240

CLIENT: MONTGOMERY & ASSOCIATES  
UNITS: ug/l  
DATE ANALYZED: 6/27/88

	FOUND	ACTUAL	% Recovery
11 METHYLENE CHLORIDE	57.5	52.7	109
14 1,1-DICHLOROETHENE	47.8	50.8	94
17 CHLOROFORM	59.4	54.5	109
20 1,1,1-TRICHLOROETHANE	53.9	50.9	106
23 BROMODICHLOROMETHANE	57.9	59.2	98
24 TRICHLOROETHENE	53.5	52.3	102
30 TETRACHLOROETHENE	54.8	54.3	101
38 CHLOROBENZENE	51.9	50.2	103
30 BENZENE	51.2	49.8	103
37 TOLUENE	57.2	51.6	111

% SURROGATE RECOVERIES

97% 1,2-DICHLOROETHANE-D4  
96% BROMOFLUOROBENZENE (BFB)  
97% TOLUENE - D8

PROJECT MANAGER:

*RW.*

DATE: 8/2/88

624 MW-1UB  
MW-3UB

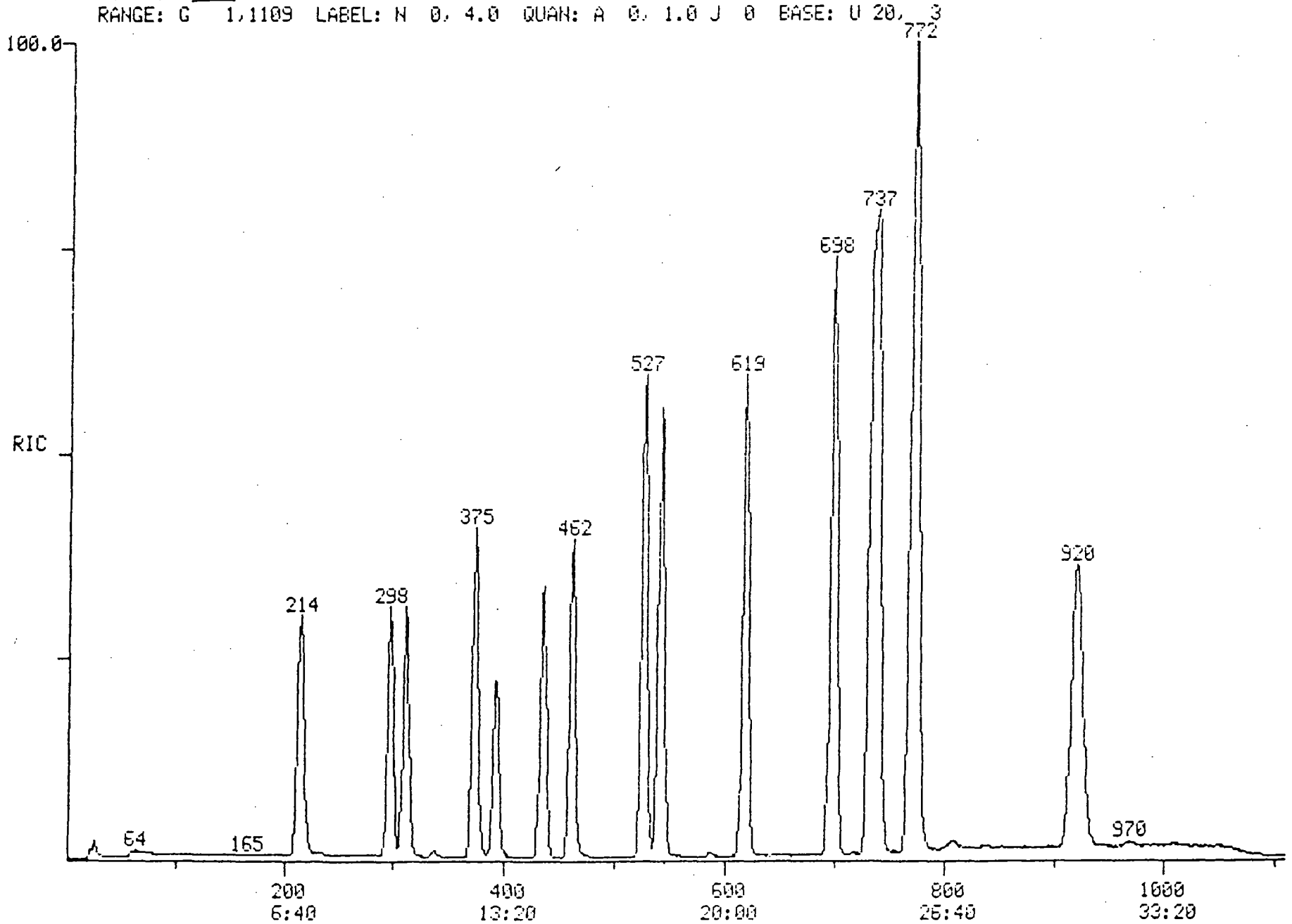
RIC  
06/27/88 9:40:00  
SAMPLE: QC 188 12.5UL  
CONDS.: GC4  
RANGE: G 1,1109 LABEL: N 0. 4.0 QUAN: A 0. 1.0 J 0 BASE: U 20. 3

DATA: QC627 #1  
CALI: QC627. #2

SCANS 1 TO 1109

217088.

TCA FINISHED, 19 FOUND  
FINISHED AT: 6/27/88 10:23:42



SCAN  
TIME

PROCEDURE: TCA  
 DATA FILE: QC627  
 REFERENCE: QC627  
 NAME LIST: VQN  
 REPORT: VQSTDS

DIAGNOSTIC REPORT

6/27/88 10:18:28

INITIALIZATION OPTION: 2 PROCESSING OPTION: 3

< ---- STANDARDS ---- >				>< --- PLUS UNKNOWN --- ><				>< - LIST NAMES - >	
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN	
6	6	1	74	18	9	1	87	VQSTDS/VQ1	
6	6	1	74	18	12	1	336	VQSTDS/VQ2	
6	6	1	74	18	10	3	78	VQSTDS/VQ3	

42 COMPOUNDS PROCESSED, 19 FOUND

< COMPOUND >		----- SEARCH -----							>< SAT ><		----- CHRO ----- >		
NO	LIB ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS	
1	VQ	1	-307	311	312	1	1	968	128	312	.	1	
2	VQ	2	-616	620	619	-1	1	923	114	619	.	1	
3	VQ	3	-766	770	770	.	1	996	117	769	-1	1	
4	VQ	4	-389	393	393	.	1	995	65	393	.	1	
5	VQ	5	-729	733	732	-1	1	996	98	732	.	1	
6	VQ	6	-916	919	920	1	1	979	95	921	1	1	
7	VQ	7	-56	61	.	.	.	.	50	.	.	.	
8	VQ	8	-89	93	.	.	.	.	94	.	.	.	
9	VQ	9	-112	116	.	.	.	.	62	.	.	.	
10	VQ	10	-144	148	.	.	.	.	64	.	.	.	
11	VQ	11	-211	215	214	-1	1	992	84	214	.	1	
12	VQ	12	-229	233	.	.	.	.	43	233	.	1	
13	VQ	13	-258	262	.	.	.	.	76	.	.	.	
14	VQ	14	-293	297	298	1	1	999	96	298	.	1	
15	VQ	15	-332	336	.	.	.	.	63	.	.	.	
16	VQ	16	-353	357	.	.	.	.	96	.	.	.	
17	VQ	17	-370	374	375	1	1	951	83	375	.	1	
18	VQ	18	-392	396	.	.	.	.	62	.	.	.	
19	VQ	19	-390	393	.	.	.	.	72	.	.	.	
20	VQ	20	-431	434	436	2	1	990	97	436	.	1	
21	VQ	21	-443	446	436	-10	1	934	117	436	.	1	
22	VQ	22	-446	449	.	.	.	.	43	.	.	.	
23	VQ	23	-458	461	462	1	1	998	83	462	.	1	
24	VQ	24	-694	697	697	.	1	931	83	699	2	2	
25	VQ	25	-499	502	.	.	.	.	63	.	.	.	
26	VQ	26	-506	509	.	.	.	.	75	.	.	.	
27	VQ	27	-523	526	527	1	1	1000	130	527	.	1	
28	VQ	28	-542	545	.	.	.	.	129	.	.	.	
29	VQ	29	-545	548	.	.	.	.	97	.	.	.	
30	VQ	30	-538	541	542	1	1	988	78	542	.	1	
31	VQ	31	-545	549	.	.	.	.	75	.	.	.	
32	VQ	32	-578	582	.	.	.	.	63	.	.	.	
33	VQ	33	-624	627	.	.	.	.	173	.	.	.	
34	VQ	34	-639	642	.	.	.	.	43	.	.	.	
35	VQ	35	-687	690	.	.	.	.	43	.	.	.	
36	VQ	36	-695	698	698	.	1	996	164	698	.	1	
37	VQ	37	-735	738	738	.	1	908	92	739	1	1	
38	VQ	38	-770	773	772	-1	1	987	112	773	1	1	
39	VQ	39	-835	838	.	.	.	.	106	.	.	.	
40	VQ	40	-964	967	966	-1	3	940	104	967	1	1	
41	VQ	41	-1006	1008	.	.	.	.	106	.	.	.	
42	VQ	42	-973	975	.	.	.	.	106	.	.	.	

Data: QC627.T1  
06/27/88 9:40:00  
Sample: GC 188 12.5UL

Conds.: GC4

Formula:

Submitted by:

Instrument: 1050

Analyst: MGB

Weight: 0.003

Acct. No.:

AMOUNT=AREA \* REF AMNT/(REF AREA \* RESP FACT)

Resp. fac. from Library Entry

No	Name
1	IS1 BROMOCHLOROMETHANE
2	IS2 1,4-DIFLUOROBENZENE
3	IS3 CHLOROBENZENE-D5
4	SS1 DICHLOROETHANE-D4
5	SS2 TOLUENE-D8
6	SS3 BROMOFLUOROBENZENE
7	45V CHLOROMETHANE
8	46V BROMOMETHANE
9	88V VINYL CHLORIDE
10	16V CHLOROETHANE
11	44V METHYLENE CHLORIDE
12	13H ACETONE
13	15H CARBON DISULFIDE
14	29V 1,1-DICHLOROETHENE
15	13V 1,1-DICHLOROETHANE
16	30V TRANS-1,2-DICHLOROETHENE
17	23V CHLOROFORM
18	10V 1,2-DICHLOROETHANE
19	14H 2-BUTANONE
20	11V 1,1,1-TRICHLOROETHANE
21	6V CARBON TETRACHLORIDE
22	19H VINYL ACETATE
23	48V BROMODICHLOROMETHANE
24	15V 1,1,2,2-TETRACHLOROETHANE
25	32V 1,2-DICHLOROPROPANE
26	33VT TRANS-1,3-DICHLOROPROPANE
27	87V TRICHLOROETHENE
28	51V DIBROMOCHLOROMETHANE
29	14V 1,1,2-TRICHLOROETHANE
30	4V BENZENE
31	33VC CIS-1,3-DICHLOROPROPENE
32	19V 2-CHLOROETHYL VINYL ETHER
33	47V BROMOFORM
34	17H 4-METHYL-2-PENTANONE
35	16H 2-HEXANONE
36	85V TETRACHLOROETHENE
37	86V TOLUENE
38	7V CHLOROBENZENE
39	38V ETHYLBENZENE
40	18H STYRENE
41	20H TOTAL XYLENES
42	XYLENES

Found

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	312	10:24	1	1.000	A BB	58222.	50.000 UG/L	4.98
2	114	619	20:38	2	1.000	A BB	367854.	50.000 UG/L	4.98
3	117	769	25:38	3	1.000	A BB	316800.	50.000 UG/L	4.98
4	65	393	13:06	1	1.260	A BB	102910.	96.535 %	9.62
5	98	732	24:24	3	0.952	A BB	380359.	96.826 %	9.65
6	95	921	30:42	3	1.198	A BB	216212.	95.722 %	9.54
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	84	214	7:08	1	0.686	A BB	115775.	57.494 UG/L	5.73 ✓
12	43	233	7:46	1	0.747	A BB	4178.	9.158 UG/L	0.91
13	NOT FOUND								
14	96	298	9:56	1	0.955	A BB	88554.	47.758 UG/L	4.76 ✓
15	NOT FOUND								
16	NOT FOUND								
17	83	375	12:30	1	1.202	A BB	230238.	59.403 UG/L	5.92 ✓
18	NOT FOUND								
19	NOT FOUND								
20	97	436	14:32	2	0.704	A BB	112890.	53.927 UG/L	5.37 ✓
21	117	436	14:32	2	0.704	A BB	18006.	8.825 UG/L	0.88
22	NOT FOUND								
23	83	462	15:24	2	0.746	A BB	200391.	57.916 UG/L	5.77 ✓
24	83	699	23:18	2	1.129	A*BB	3842.	0.990 UG/L	0.10
25	NOT FOUND								
26	NOT FOUND								
27	130	527	17:34	2	0.851	A BB	148022.	53.451 UG/L	5.33 ✓
28	NOT FOUND								
29	NOT FOUND								
30	78	542	18:04	2	0.876	A BB	373517.	51.248 UG/L	5.11 ✓
31	NOT FOUND								
32	NOT FOUND								
33	NOT FOUND								
34	NOT FOUND								
35	NOT FOUND								
36	164	698	23:16	3	0.908	A BB	143407.	54.816 UG/L	5.46 ✓
37	92	739	24:38	3	0.961	A BB	323164.	57.191 UG/L	5.70 ✓
38	112	773	25:46	3	1.005	A BB	331474.	51.911 UG/L	5.17 ✓
39	NOT FOUND								
40	104	967	32:14	3	1.257	A BV	2664.	0.624 UG/L	0.06
41	NOT FOUND								
42	NOT FOUND								

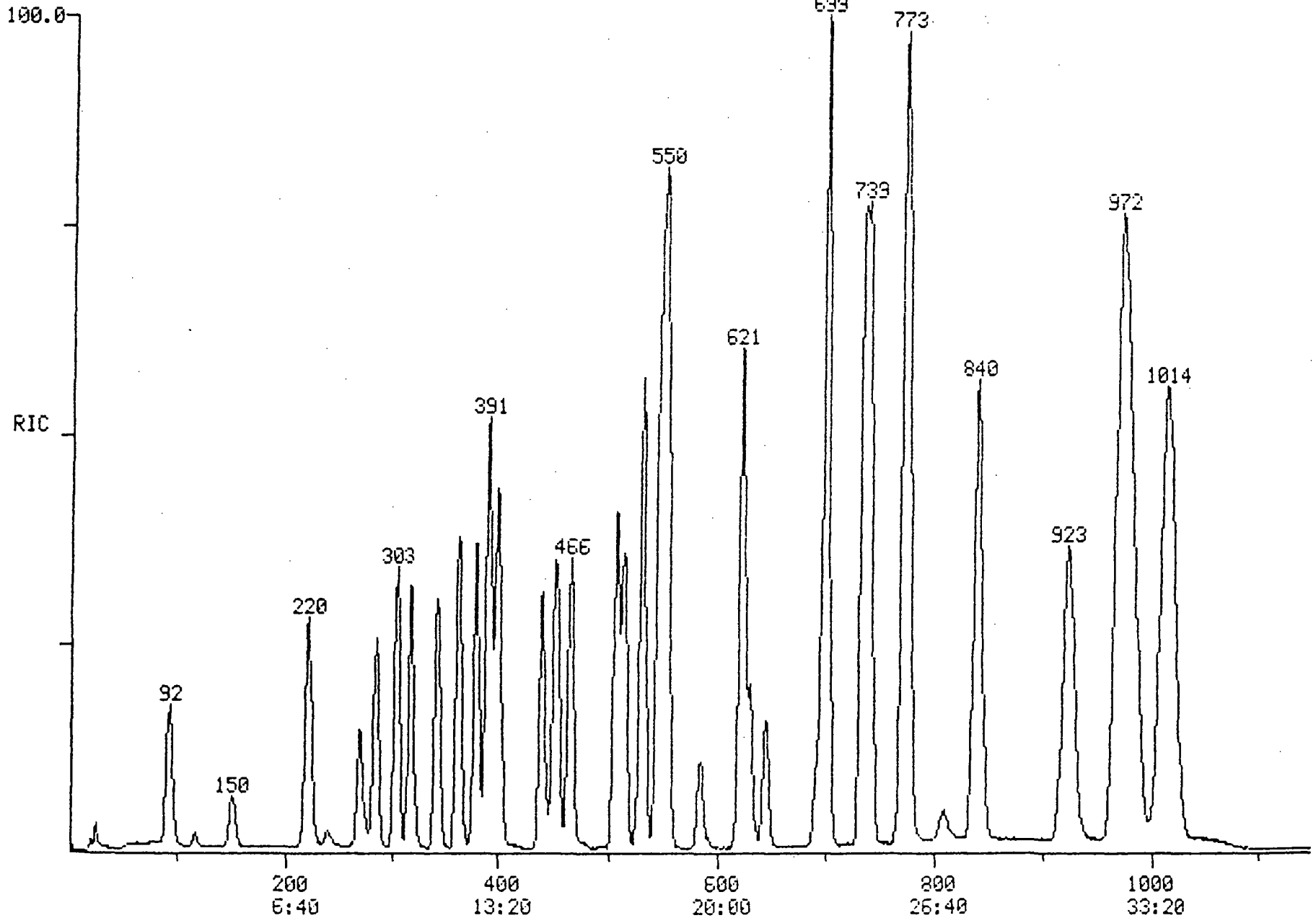


624 MW-1UB  
MW-3UB

RIC DATA: STD627 #1 SCANS 1 TO 1147  
06/27/88 8:45:00 CALI: STD627 #2  
SAMPLE: STD MIX 250NG (6/27/88)  
CONDS.: GC4  
RANGE: G 1.1147 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

221184.

TCA FINISHED, 40 FOUND  
FINISHED AT: 6/27/88 9:30:05



SCAN  
TIME

PROCEDURE: TCA  
 DATA FILE: STD627  
 REFERENCE: STD627  
 NAME LIST: VQN  
 REPORT: VQSTDS

DIAGNOSTIC REPORT

6/27/88 9:24:37

INITIALIZATION OPTION: 2 PROCESSING OPTION: 3

< ---- STANDARDS ---- >				>< ---- PLUS UNKNOWNNS ---- ><				>< - LIST NAMES - >	
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN	
6	6	1	112	18	17	1	245	VQSTDS/VQ1	
6	6	1	112	18	17	2	84	VQSTDS/VQ2	
6	6	1	112	18	18	4	170	VQSTDS/VQ3	

42 COMPOUNDS PROCESSED, 40 FOUND

< COMPOUND ><			----- SEARCH -----					>< SAT ><	----- CHRO ----- >				
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	VQ	1	-307	316	317	1	1	968		128	317		1
2	VQ	2	-616	623	622	-1	1	945		114	621	-1	1
3	VQ	3	-766	772	771	-1	1	994		117	771		1
4	VQ	4	-389	398	398		1	993		65	398		1
5	VQ	5	-729	735	734	-1	1	996		98	734		1
6	VQ	6	-916	920	922	2	1	979		95	923	1	1
7	VQ	7	-56	64						50			
8	VQ	8	-89	97	92	-5	1	996		94	92		1
9	VQ	9	-112	120	116	-4	1	870		62	116		1
10	VQ	10	-144	152	150	-2	1	993		64	150		1
11	VQ	11	-211	219	220	1	1	991		84	219	-1	1
12	VQ	12	-229	237	239	2	1	909		43	238	-1	1
13	VQ	13	-258	266	268	2	1	955		76	268		1
14	VQ	14	-293	301	303	2	1	994		96	303		1
15	VQ	15	-332	340	342	2	1	997		63	342		1
16	VQ	16	-353	361	362	1	1	1000		96	362		1
17	VQ	17	-370	378	379	1	1	954		83	379		1
18	VQ	18	-392	400	401	1	1	995		62	401		1
19	VQ	19	-390	399	399		1	955		72	399		1
20	VQ	20	-431	439	440	1	1	993		97	440		1
21	VQ	21	-443	451	451		2	939		117	451		1
22	VQ	22	-446	454	454		1	996		43	454		1
23	VQ	23	-458	466	466		1	1000		83	466		1
24	VQ	24	-694	700	699	-1	1	997		83	699		1
25	VQ	25	-499	507	507		1	921		63	506	-1	1
26	VQ	26	-506	513						75	514		1
27	VQ	27	-523	530	530		1	1000		130	529	-1	1
28	VQ	28	-542	549	548	-1	1	1000		129	548		1
29	VQ	29	-545	552	551	-1	1	995		97	551		1
30	VQ	30	-538	545	545		1	993		78	545		1
31	VQ	31	-545	551	551		1	1000		75	551		1
32	VQ	32	-578	584	584		1	985		63	584		1
33	VQ	33	-624	630	629	-1	1	997		173	629		1
34	VQ	34	-639	645	644	-1	1	994		43	644		1
35	VQ	35	-687	693	691	-2	1	990		43	691		1
36	VQ	36	-695	701	700	-1	1	998		164	700		1
37	VQ	37	-735	741	740	-1	1	909		92			
38	VQ	38	-770	776	774	-2	1	995		112	775	1	1
39	VQ	39	-835	841	840	-1	1	937		106	840		1
40	VQ	40	-964	970	971	1	1	1000		104	971		1
41	VQ	41	-1006	1011	1014	3	2	911		106	1014		1
42	VQ	42	-973	978	981	3	2	911		106	981		1

Data: STD627.TI

06/27/88 8:45:00

Sample: STD MIX 250NG (6/27/88)

Conds.: GC4

Formula:

Instrument: 1050

Weight: 0.003

Submitted by:

Analyst: MGB

Acct. No.:

AMOUNT=AREA \* REF AMNT/(REF AREA \* RESP FACT)

Resp. fac. from Library Entry

No	Name
1	IS1 BROMOCHLOROMETHANE
2	IS2 1,4-DIFLUOROBENZENE
3	IS3 CHLOROBENZENE-D5
4	SS1 DICHLOROETHANE-D4
5	SS2 TOLUENE-D8
6	SS3 BROMOFLUOROBENZENE
7	45V CHLOROMETHANE
8	46V BROMOMETHANE
9	88V VINYL CHLORIDE
10	16V CHLOROETHANE
11	44V METHYLENE CHLORIDE
12	13H ACETONE
13	15H CARBON DISULFIDE
14	29V 1,1-DICHLOROETHENE
15	13V 1,1-DICHLOROETHANE
16	30V TRANS-1,2-DICHLOROETHENE
17	23V CHLOROFORM
18	10V 1,2-DICHLOROETHANE
19	14H 2-BUTANONE
20	11V 1,1,1-TRICHLOROETHANE
21	6V CARBON TETRACHLORIDE
22	19H VINYL ACETATE
23	48V BROMODICHLOROMETHANE
24	15V 1,1,2,2-TETRACHLOROETHANE
25	32V 1,2-DICHLOROPROPANE
26	33VT TRANS-1,3-DICHLOROPROPANE
27	87V TRICHLOROETHENE
28	51V DIBROMOCHLOROMETHANE
29	14V 1,1,2-TRICHLOROETHANE
30	4V BENZENE
31	33VC CIS-1,3-DICHLOROPROPENE
32	19V 2-CHLOROETHYL VINYL ETHER
33	47V BROMOFORM
34	17H 4-METHYL-2-PENTANONE
35	16H 2-HEXANONE
36	85V TETRACHLOROETHENE
37	86V TOLUENE
38	7V CHLOROBENZENE
39	38V ETHYLBENZENE
40	18H STYRENE
41	20H TOTAL XYLENES
42	XYLENES

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	317	10:34	1	1.000	A BB	62667.	50.000 UG/L	2.54
2	114	621	20:42	2	1.000	A BB	380036.	50.000 UG/L	2.54
3	117	771	25:42	3	1.000	A BB	316291.	50.000 UG/L	2.54
4	65	398	13:16	1	1.256	A BB	114742.	107.518 %	5.46
5	98	734	24:28	3	0.952	A BB	392198.	99.086 %	5.03
6	95	923	30:46	3	1.197	A BB	225512.	89.618 %	4.55
7	NOT FOUND								
8	94	92	3:04	1	0.290	A BB	95255.	60.893 UG/L	3.09
9	62	116	3:52	1	0.366	A BB	13814.	14.051 UG/L	0.71
10	64	150	5:00	1	0.473	A BB	50214.	57.210 UG/L	2.91
11	84	219	7:18	1	0.691	A BB	108371.	50.608 UG/L	2.57
12	43	238	7:56	1	0.751	A BB	24553.	38.781 UG/L	1.97
13	76	268	8:56	1	0.845	A BB	166389.	30.768 UG/L	1.56
14	96	303	10:06	1	0.956	A BB	99790.	53.197 UG/L	2.70
15	63	342	11:24	1	1.079	A BB	173548.	45.142 UG/L	2.29
16	96	362	12:04	1	1.142	A BB	107868.	52.328 UG/L	2.66
17	83	379	12:38	1	1.196	A BB	208587.	47.898 UG/L	2.43
18	62	401	13:22	1	1.265	A BB	130751.	53.101 UG/L	2.70
19	72	399	13:18	2	0.643	A BB	8318.	39.758 UG/L	2.02
20	97	440	14:40	2	0.709	A BB	108135.	35.338 UG/L	1.79
21	117	451	15:02	2	0.726	A VB	105399.	36.152 UG/L	1.84
22	43	454	15:08	2	0.731	A BB	158732.	29.444 UG/L	1.50
23	83	466	15:32	2	0.750	A BB	178732.	40.302 UG/L	2.05
24	83	699	23:18	2	1.126	A BB	200534.	47.083 UG/L	2.39
25	63	506	16:52	2	0.815	A BB	148525.	42.899 UG/L	2.18
26	75	514	17:08	2	0.828	A BB	208222.	37.937 UG/L	1.93
27	130	529	17:38	2	0.852	A BB	143051.	47.889 UG/L	2.43
28	129	548	18:16	2	0.882	A BB	127350.	37.177 UG/L	1.89
29	97	551	18:22	2	0.887	A BB	127252.	47.298 UG/L	2.40
30	78	545	18:10	2	0.878	A BB	376488.	49.469 UG/L	2.51
31	75	551	18:22	2	0.887	A BB	68614.	35.773 UG/L	1.82
32	63	584	19:28	2	0.940	A BB	37389.	48.010 UG/L	2.44
33	173	629	20:58	2	1.013	A BB	71346.	37.004 UG/L	1.88
34	43	644	21:28	3	0.835	A BB	99290.	34.606 UG/L	1.76
35	43	691	23:02	3	0.896	A BB	64714.	32.828 UG/L	1.67
36	164	700	23:20	3	0.908	A BB	130598.	52.645 UG/L	2.67
37	NOT FOUND								
38	112	775	25:50	3	1.005	A BB	318758.	49.305 UG/L	2.50
39	106	840	28:00	3	1.089	A BB	148407.	47.024 UG/L	2.39
40	104	971	32:22	3	1.259	A BB	533188.	87.829 UG/L	4.46
41	106	1014	33:48	3	1.315	A BB	265200.	67.286 UG/L	3.42
42	106	981	32:42	3	1.272	A BB	144308.	35.516 UG/L	1.80

Data: STD627.TI  
06/27/88 8:45:00  
Sample: STD MIX 250NG (6/27/88)  
Conditions: GC4

Formula: Instrument: 1050 Weight: 0.003  
Submitted by: Analyst: MGB Acct. No.:

AMOUNT=AREA \* REF AMNT/(REF AREA \* RESP FACT)  
Resp. fac. from Library Entry

No	Name
1	IS1 BROMOCHLOROMETHANE
2	IS2 1,4-DIFLUOROBENZENE
3	IS3 CHLOROBENZENE-D5
4	SS1 DICHLOROETHANE-D4
5	SS2 TOLUENE-DB
6	SS3 BROMOFLUOROBENZENE
7	46V BROMOMETHANE
8	88V VINYL CHLORIDE
9	16V CHLOROETHANE
10	44V METHYLENE CHLORIDE
11	13H ACETONE
12	15H CARBON DISULFIDE
13	29V 1,1-DICHLOROETHENE
14	13V 1,1-DICHLOROETHANE
15	30V TRANS-1,2-DICHLOROETHENE
16	23V CHLOROFORM
17	10V 1,2-DICHLOROETHANE
18	14H 2-BUTANONE
19	11V 1,1,1-TRICHLOROETHANE
20	6V CARBON TETRACHLORIDE
21	19H VINYL ACETATE
22	48V BROMODICHLOROMETHANE
23	15V 1,1,2,2-TETRACHLOROETHANE
24	32V 1,2-DICHLOROPROPANE
25	33VT TRANS-1,3-DICHLOROPROPANE
26	87V TRICHLOROETHENE
27	51V DIBROMOCHLOROMETHANE
28	14V 1,1,2-TRICHLOROETHANE
29	4V BENZENE
30	33VC CIS-1,3-DICHLOROPROPENE
31	19V 2-CHLOROETHYL VINYL ETHER
32	47V BROMOFORM
33	17H 4-METHYL-2-PENTANONE
34	16H 2-HEXANONE
35	85V TETRACHLOROETHENE
36	86V TOLUENE
37	7V CHLOROBENZENE
38	38V ETHYLBENZENE
39	18H STYRENE
40	20H TOTAL XYLENES
41	XYLENES

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	317	10:34	1	1.000	A BB	62667.	50.000 UG/L	2.15
2	114	621	20:42	2	1.000	A BB	380036.	50.000 UG/L	2.15
3	117	771	25:42	3	1.000	A BB	316291.	50.000 UG/L	2.15
4	65	398	13:16	1	1.256	A BB	114742.	100.000 %	4.30
5	98	734	24:28	3	0.952	A BB	392198.	100.000 %	4.30
6	95	923	30:46	3	1.197	A BB	225512.	100.000 %	4.30
7	94	92	3:04	1	0.290	A BB	95255.	50.000 UG/L	2.15
8	62	116	3:52	1	0.366	A BB	13814.	50.000 UG/L	2.15
9	64	150	5:00	1	0.473	A BB	50214.	50.000 UG/L	2.15
10	84	219	7:18	1	0.691	A BB	108371.	50.000 UG/L	2.15
11	43	238	7:56	1	0.751	A BB	24553.	50.000 UG/L	2.15
12	76	268	8:56	1	0.845	A BB	166389.	50.000 UG/L	2.15
13	96	303	10:06	1	0.956	A BB	99790.	50.000 UG/L	2.15
14	63	342	11:24	1	1.079	A BB	173548.	50.000 UG/L	2.15
15	96	362	12:04	1	1.142	A BB	107868.	50.000 UG/L	2.15
16	83	379	12:38	1	1.196	A BB	208587.	50.000 UG/L	2.15
17	62	401	13:22	1	1.265	A BB	130751.	50.000 UG/L	2.15
18	72	399	13:18	2	0.643	A BB	8318.	50.000 UG/L	2.15
19	97	440	14:40	2	0.709	A BB	108135.	50.000 UG/L	2.15
20	117	451	15:02	2	0.726	A VB	105399.	50.000 UG/L	2.15
21	43	454	15:08	2	0.731	A BB	158732.	50.000 UG/L	2.15
22	83	466	15:32	2	0.750	A BB	178732.	50.000 UG/L	2.15
23	83	699	23:18	2	1.126	A BB	200534.	50.000 UG/L	2.15
24	63	506	16:52	2	0.815	A BB	148525.	50.000 UG/L	2.15
25	75	514	17:08	2	0.828	A BB	208222.	50.000 UG/L	2.15
26	130	529	17:38	2	0.852	A BB	143051.	50.000 UG/L	2.15
27	129	548	18:16	2	0.882	A BB	127350.	50.000 UG/L	2.15
28	97	551	18:22	2	0.887	A BB	127252.	50.000 UG/L	2.15
29	78	545	18:10	2	0.878	A BB	376488.	50.000 UG/L	2.15
30	75	551	18:22	2	0.887	A BB	68614.	50.000 UG/L	2.15
31	63	584	19:28	2	0.940	A BB	37389.	50.000 UG/L	2.15
32	173	629	20:58	2	1.013	A BB	71346.	50.000 UG/L	2.15
33	43	644	21:28	3	0.835	A BB	99290.	50.000 UG/L	2.15
34	43	691	23:02	3	0.896	A BB	64714.	50.000 UG/L	2.15
35	164	700	23:20	3	0.908	A BB	130598.	50.000 UG/L	2.15
36	92	737	24:34	3	0.956	M XX	282079.	50.000 UG/L	2.15
37	112	775	25:50	3	1.005	A BB	318758.	50.000 UG/L	2.15
38	106	840	28:00	3	1.089	A BB	148407.	50.000 UG/L	2.15
39	104	971	32:22	3	1.259	A BB	533188.	125.000 UG/L	5.38
40	106	1014	33:48	3	1.315	A BB	265200.	100.000 UG/L	4.30
41	106	981	32:42	3	1.272	A BB	144308.	50.000 UG/L	2.15

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	10:34	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	20:42	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	25:42	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	13:16	1.00	1.256	1.00	100.00	100.00	0.915	0.915	1.00
5	24:28	1.00	0.952	1.00	100.00	100.00	0.620	0.620	1.00
6	30:46	1.00	1.197	1.00	100.00	100.00	0.356	0.356	1.00
7	3:04	1.00	0.290	1.00	50.00	50.00	1.520	1.520	1.00
8	3:52	1.00	0.366	1.00	50.00	50.00	0.220	0.220	1.00
9	5:00	1.00	0.473	1.00	50.00	50.00	0.801	0.801	1.00
10	7:18	1.00	0.691	1.00	50.00	50.00	1.729	1.729	1.00
11	7:56	1.00	0.751	1.00	50.00	50.00	0.392	0.392	1.00
12	8:56	1.00	0.845	1.00	50.00	50.00	2.655	2.655	1.00
13	10:06	1.00	0.956	1.00	50.00	50.00	1.592	1.592	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
14	11:24	1.00	1.079	1.00	50.00	50.00	2.769	2.769	1.00
15	12:04	1.00	1.142	1.00	50.00	50.00	1.721	1.721	1.00
6	12:38	1.00	1.196	1.00	50.00	50.00	3.328	3.328	1.00
17	13:22	1.00	1.265	1.00	50.00	50.00	2.086	2.086	1.00
18	13:18	1.00	0.643	1.00	50.00	50.00	0.022	0.022	1.00
19	14:40	1.00	0.709	1.00	50.00	50.00	0.285	0.285	1.00
20	15:02	1.00	0.726	1.00	50.00	50.00	0.277	0.277	1.00
21	15:08	1.00	0.731	1.00	50.00	50.00	0.418	0.418	1.00
22	15:32	1.00	0.750	1.00	50.00	50.00	0.470	0.470	1.00
23	23:18	1.00	1.126	1.00	50.00	50.00	0.528	0.528	1.00
24	16:52	1.00	0.815	1.00	50.00	50.00	0.391	0.391	1.00
25	17:08	1.00	0.828	1.00	50.00	50.00	0.548	0.548	1.00
26	17:38	1.00	0.852	1.00	50.00	50.00	0.376	0.376	1.00
27	18:16	1.00	0.882	1.00	50.00	50.00	0.335	0.335	1.00
28	18:22	1.00	0.887	1.00	50.00	50.00	0.335	0.335	1.00
29	18:10	1.00	0.878	1.00	50.00	50.00	0.991	0.991	1.00
30	18:22	1.00	0.887	1.00	50.00	50.00	0.181	0.181	1.00
31	19:28	1.00	0.940	1.00	50.00	50.00	0.098	0.098	1.00
32	20:58	1.00	1.013	1.00	50.00	50.00	0.188	0.188	1.00
33	21:28	1.00	0.835	1.00	50.00	50.00	0.314	0.314	1.00
34	23:02	1.00	0.896	1.00	50.00	50.00	0.205	0.205	1.00
35	23:20	1.00	0.908	1.00	50.00	50.00	0.413	0.413	1.00
36	24:34	1.00	0.956	1.00	50.00	50.00	0.892	0.892	1.00
37	25:50	1.00	1.005	1.00	50.00	50.00	1.008	1.008	1.00
38	28:00	1.00	1.089	1.00	50.00	50.00	0.469	0.469	1.00
39	32:22	1.00	1.259	1.00	125.00	125.00	0.674	0.674	1.00
40	33:48	1.00	1.315	1.00	100.00	100.00	0.419	0.419	1.00
41	32:42	1.00	1.272	1.00	50.00	50.00	0.456	0.456	1.00

## QUALITY CONTROL DATA

TEST : SEMI-VOLATILE ORGANICS (EPA 625)

ATI I.D. : 806096

 CLIENT : MONTGOMERY & ASSOCIATES  
 PROJECT # : 661D  
 PROJECT NAME : HASSAYAMPA

 REF. I.D. : 80605301  
 DATE ANALYZED : 06/23/88  
 SAMPLE MATRIX : AQUEOUS  
 UNITS : UG/L

COMPOUNDS	SAMPLE RESULT	CONC. SPIKED	SPIKED SAMPLE	DUP.		RPD
				% REC.	% SPIKED REC.	
1,2,4-TRICHLOROBENZENE	ND	100	170	170	131	26
ACENAPHTHENE	ND	100	85	85	100	16
2,4-DINITROTOLUENE	ND	100	52	52	65	22
PYRENE	ND	100	91	91	113	22
N-NITROSO-DI-N-PROPYLAMINE	ND	100	66	66	75	13
1,4-DICHLOROBENZENE	ND	100	47	47	52	10
PENTACHLOROPHENOL	ND	100	56	56	51	9
PHENOL	ND	100	64	64	49	27
2-CHLOROPHENOL	ND	100	70	70	53	28
4-CHLORO-3-METHYLPHENOL	ND	100	58	58	43	30
4-NITROPHENOL	ND	100	<100	NA	<100	NA

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Spiked Sample Result} - \text{Duplicate Spike Sample Result})}{\text{Average of Spiked Sample}} \times 100$$



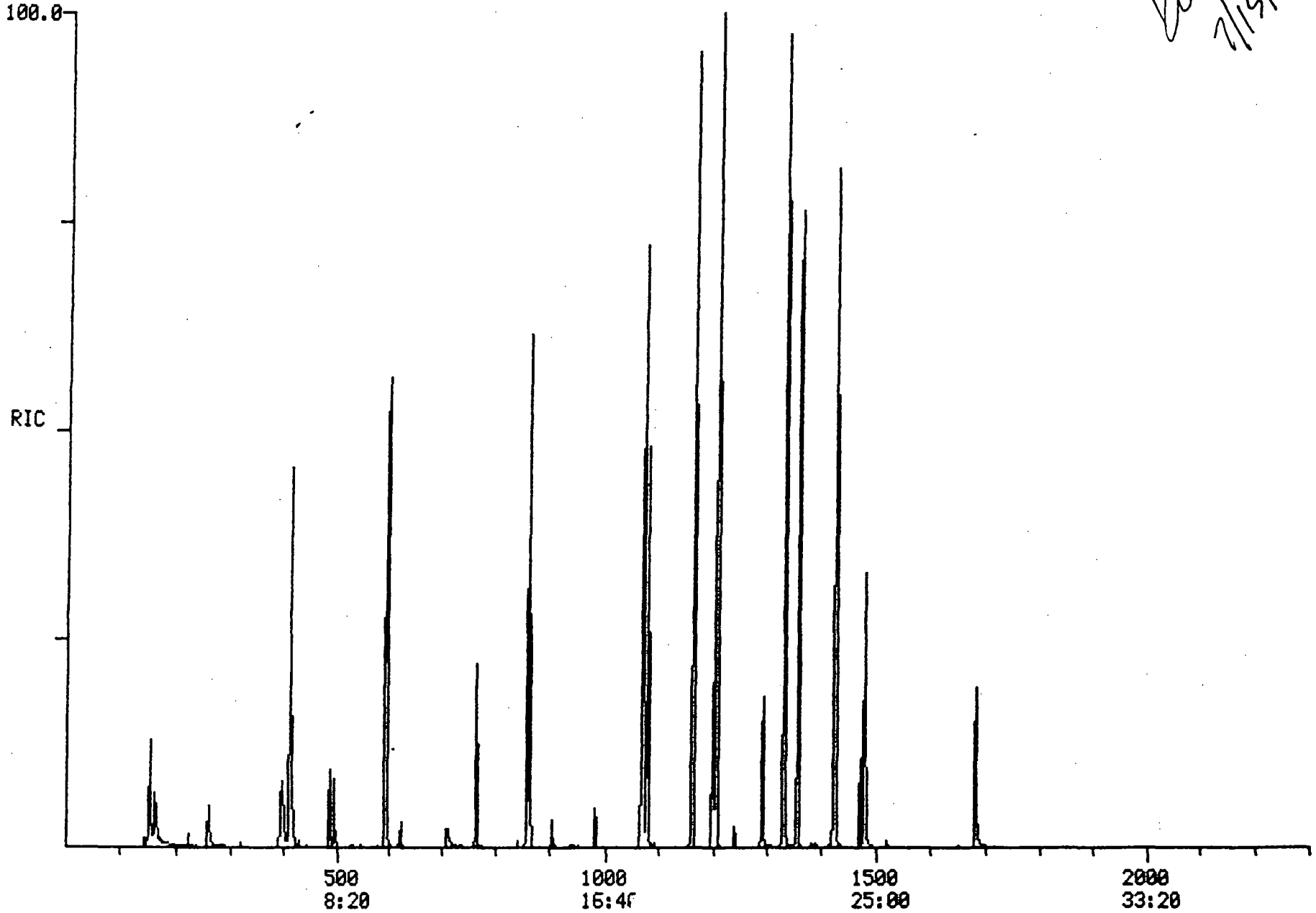
625 MW-1UB  
mw-3UB

RIC DATA: 806053MS #1 SCANS 1 TO 2300  
06/23/88 15:21:00 CALI: 806053MS #2  
SAMPLE: JOB 806053-1 MS R BN/A 6/16/88  
CONDS.: GC5  
RANGE: G 1,2300 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

*Done*  
7/15/88

612352.

TCA FINISHED, 26 FOUND  
FINISHED AT: 6/23/88 16:11:58



SCAN  
TIME



Quantitation Report File: 806053MS

Data: 806053MS.TI

06/23/88 15:21:00

Sample: JOB 806053-1 MS R BN/A 6/16/88

Conds.: GC5

Formula:

Instrument: 1050

Weight: 50.000

Submitted by:

Analyst: MGB

Acct. No.:

AMOUNT=AREA \* REF AMNT/(REF AREA \* RESP FACT)  
 Resp. fac. from Library Entry

No	Name
51	70B DIETHYL PHTHALATE (SV#55)
52	40B 4-CHLOROPHENYLPHENYL ETHER (SV#56)
53	80B FLUORENE (SV#57)
54	12H 4-NITROANILINE (SV#58)
55	IS5 CHRYSENE-D12 (SV#5)
56	60A 2-METHYL-4,6-DINITROPHENOL (SV#59)
57	62B N-NITROSODIPHENYLAMINE (SV#60)
58	41B 4-BROMOPHENYLPHENYL ETHER (SV#61)
59	9B HEXACHLOROBENZENE (SV#62)
60	64A PENTACHLOROPHENOL (SV#63)
61	81B PHENANTHRENE (SV#64)
62	78B ANTHRACENE (SV#65)
63	68B DI-N-BUTYL PHTHALATE (SV#66)
64	39B FLUORANTHENE (SV#67)
65	IS6 PERYLENE-D12 (SV#6)
66	SS6 TERPHENYL-D14 (SV#12)
67	5B BENZIDINE (SV#68)
68	84B PYRENE (SV#69)
69	67B BUTYL BENZYL PHTHALATE (SV#70)
70	28B 3,3'-DICHLOROBENZIDINE (SV#71)
71	72B BENZO(A)ANTHRACENE (SV#72)
72	66B BIS(2-ETHYLHEXYL)PHTHALATE (SV#73)
73	76B CHRYSENE (SV#74)
74	69B DI-N-OCTYL PHTHALATE (SV#75)
75	74B BENZO(B)FLUORANTHENE (SV#76)
76	74B BENZO(K)FLUORANTHENE (SV#77)
77	73B BENZO(A)PYRENE (SV#78)
78	83B INDENO(1,2,3-CD)PYRENE (SV#79)
79	82B DIBENZO(A,H)ANTHRACENE (SV#80)
80	79B BENZO(G,H,I)PERYLENE (SV#81)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	NOT FOUND								
52	NOT FOUND								
53	NOT FOUND								
54	NOT FOUND								
55	240	1481	24:41	55	1.000	A VB	171390.	100.000 NG/UL	7.75
56	NOT FOUND								
57	NOT FOUND								
58	NOT FOUND								
59	NOT FOUND								
60	266	1070	17:50	34	0.991	A BB	7058.	27.968 NG/UL	2.17
61	NOT FOUND								
62	NOT FOUND								
63	149	1200	20:00	34	1.111	A BV	133905.	39.125 NG/UL	3.03

No Name  
 48 BH DIBENZOFURAN (SV#52)  
 49 35B 2,4-DINITROTOLUENE (SV#53)  
 0 36B 2,6-DINITROTOLUENE (SV#54)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	411	6:51	1	1.000	A BB	137277.	100.000 NG/UL	7.75
2	136	596	9:56	2	1.000	A BB	372772.	100.000 NG/UL	7.75
3	NOT FOUND								
4	94	397	6:37	1	0.966	A BB	45584.	32.157 NG/UL	2.49
5	NOT FOUND								
6	NOT FOUND								
7	128	393	6:33	1	0.956	A BB	42465.	35.139 NG/UL	2.72
8	146	413	6:53	1	1.005	A BB	47209.	26.310 NG/UL	2.04
9	146	413	6:53	1	1.005	A BB	47209.	23.343 NG/UL	1.81
10	NOT FOUND								
11	146	413	6:53	1	1.005	A BB	47209.	26.751 NG/UL	2.07
12	99	396	6:36	1	0.964	A BV	46772.	34.167 NG/UL	2.65
13	112	261	4:21	1	0.635	A BB	42002.	39.912 NG/UL	3.09
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	70	487	8:07	1	1.185	A BV	34677.	32.910 NG/UL	2.55
18	NOT FOUND								
19	164	860	14:20	19	1.000	A BB	232982.	100.000 NG/UL	7.75
20	NOT FOUND								
21	82	538	8:58	2	0.903	A BB	477.	0.171 NG/UL	0.01
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	82	496	8:16	2	0.832	A BB	45340.	39.713 NG/UL	3.08
28	180	592	9:52	2	0.993	A BB	97901.	85.335 NG/UL	6.61
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	107	713	11:53	2	1.196	A BB	30818.	28.955 NG/UL	2.24
33	NOT FOUND								
34	188	1080	18:00	34	1.000	A BB	324848.	100.000 NG/UL	7.75
35	NOT FOUND								
36	NOT FOUND								
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	153	864	14:24	19	1.005	A BB	95166.	42.499 NG/UL	3.29
44	NOT FOUND								
45	172	767	12:47	19	0.892	A BB	102585.	45.139 NG/UL	3.50
46	330	982	16:22	19	1.142	A BB	8848.	35.274 NG/UL	2.73
47	NOT FOUND								
48	NOT FOUND								
49	NOT FOUND								
50	165	904	15:04	19	1.051	A BB	12382.	25.856 NG/UL	2.00

Data: 806053MS.TI

06/23/88 15:21:00

Sample: JOB 806053-1 MS R BN/A 6/16/88

Conds.: GC5

Formula:

Instrument: 1050

Weight: 50.000

Submitted by:

Analyst: MGB

Acct. No.:

AMOUNT=AREA \* REF AMNT/(REF AREA \* RESP FACT)

Resp. fac. from Library Entry

No	Name
1	IS1 1,4-DICHLOROBENZENE-D4 (SV#1)
2	IS2 NAPHTHALENE-D8 (SV#2)
3	61B N-NITROSODIMETHYLAMINE (SV#14)
4	65A PHENOL (SV#15)
5	5H ANILINE (SV#16)
6	18B BIS(2-CHLOROETHYL)ETHER (SV#17)
7	24A 2-CHLOROPHENOL (SV#18)
8	26B 1,3-DICHLOROBENZENE (SV#19)
9	27B 1,4-DICHLOROBENZENE (SV#20)
10	6H BENZYL ALCOHOL (SV#21)
11	25B 1,2-DICHLOROBENZENE (SV#22)
12	SS2 PHENOL-D5 (SV#7)
13	SS1 2-FLUOROPHENOL (SV#8)
14	2H 2-METHYLPHENOL (SV#23)
15	42B BIS(2-CHLOROISOPROPYL)ETHER (SV#24)
16	4H 4-METHYLPHENOL (SV#25)
17	63B N-NITROSO-DI-N-PROPYLAMINE (SV#26)
18	12B HEXACHLOROETHANE (SV#27)
19	IS3 ACENAPHTHENE-D10 (SV#3)
20	56B NITROBENZENE (SV#28)
21	54B ISOPHORONE (SV#29)
22	57A 2-NITROPHENOL (SV#30)
23	34A 2,4-DIMETHYLPHENOL (SV#31)
24	1H BENZOIC ACID (SV#32)
25	43B BIS(2-CHLOROETHOXY)METHANE (SV#33)
26	31A 2,4-DICHLOROPHENOL (SV#34)
27	SS3 NITROBENZENE-D5 (SV#9)
28	8B 1,2,4-TRICHLOROBENZENE (SV#35)
29	55B NAPHTHALENE (SV#36)
30	7H 4-CHLOROANILINE (SV#37)
31	52B HEXACHLORO BUTADIENE (SV#38)
32	22A 4-CHLORO-3-METHYLPHENOL (SV#39)
33	9H 2-METHYLNAPHTHALENE (SV#40)
34	184 PHENANTHRENE-D10 (SV#4)
35	53B HEXACHLOROCYCLOPENTADIENE (SV#41)
36	21A 2,4,6-TRICHLOROPHENOL (SV#42)
37	4H 2,4,5-TRICHLOROPHENOL (SV#43)
38	20B 2-CHLORONAPHTHALENE (SV#44)
39	10H 2-NITROANILINE (SV#45)
40	71B DIMETHYL PHTHALATE (SV#46)
41	77B ACENAPHTHYLENE (SV#47)
42	11H 3-NITROANILINE (SV#48)
43	1B ACENAPHTHENE (SV#49)
44	59A 2,4-DINITROPHENOL (SV#50)
45	SS4 2-FLUOROBIPHENYL (SV#10)
46	SS5 2,4,6-TRIBROMOPHENOL (SV#11)
47	58A 4-NITROPHENOL (SV#51)

44	SV	50	-883	884				184			
45	SV	10	-766	767	767	1	994	172	767		1
46	SV	11	-981	982	982	1	994	330	982		1
47	SV	51	-927	928				139			
48	SV	52	-888	889				168			
49	SV	53	-848	849				89			
50	SV	54	-904	905	905	1	909	165	904	-1	1
51	SV	55	-950	951				149			
52	SV	56	-948	949				204			
53	SV	57	-940	941				166			
54	SV	58	-964	965				138			
55	SV	5	-1480	1481	1481	1	979	240	1481		1
56	SV	59	-964	966				198			
57	SV	60	-970	972				169			
58	SV	61	-1020	1021				248			
59	SV	62	-1034	1035				284			
60	SV	63	-1069	1070	1070	1	997	266	1070		1
61	SV	64	-1082	1083				178			
62	SV	65	-1088	1089				178			
63	SV	66	-1199	1200	1200	1	986	149	1200		1
64	SV	67	-1261	1262				202			
65	SV	6	-1684	1684	1684	1	950	264	1684		1
66	SV	12	-1332	1333	1333	1	987	244	1333		1
67	SV	68	-1763	1763				184			
68	SV	69	-1292	1293	1293	1	996	202	1293		1
69	SV	70	-1421	1422				149			
70	SV	71	-2007	2007				252			
71	SV	72	-1478	1479				228	1481		1
72	SV	73	-1520	1521	1521	1	942	149	1521		1
73	SV	74	-1483	1484				228			
74	SV	75	-1609	1609				149			
75	SV	76	-1636	1636				252			
76	SV	77	-1636	1636				252			
77	SV	78	-1674	1674				252			
78	SV	79	-1863	1863				276			
79	SV	80	-1872	1872				278			
80	SV	81	-1914	1914				276			

PROCEDURE: TCA  
 DATA FILE: 806053MS  
 REFERENCE: 806053MS  
 NAME LIST: K1  
 REPORT: X1

DIAGNOSTIC REPORT

6/23/88 16:00:01

< ---- STANDARDS ---- >				--- PLUS UNKNOWN --- >				< - LIST NAMES - >	
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN	
2	2	1	0	11	7	2	1158	X1/Z1	
2	2	1	0	9	5	2	72	X1/ZA	
2	2	1	0	9	2	1	0	X2/Z2	
2	2	1	0	9	5	1	113	X2/ZB	
2	2	1	0	12	3	1	1	X3/Z3	
2	2	1	0	12	5	1	34	X3/ZC	
2	2	1	0	11	4	1	55	X4/Z4	
2	2	1	0	10	5	1	32	X5/Z5	
1	5	0	0	7	0	1	0	X6/Z6	

80 COMPOUNDS PROCESSED, 26 FOUND

< COMPOUND >		----- SEARCH -----						> SAT <		----- CHRO ----- >			
NO	LIB ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS	
1	SV	1	-411	411	411	.	1	998	152	411	.	1	
2	SV	2	-595	596	596	.	1	991	-1	136	596	.	1
3	SV	14	-263	262	.	.	.	.	42	.	.	.	.
4	SV	15	-398	396	397	1	2	997	.	94	397	.	1
5	SV	16	-621	618	.	.	.	.	93	.	.	.	.
6	SV	17	-389	387	.	.	.	.	93	.	.	.	.
7	SV	18	-393	391	393	2	1	998	.	128	393	.	1
8	SV	19	-404	402	413	11	1	996	.	146	413	.	1
9	SV	20	-413	411	413	2	1	998	.	146	413	.	1
10	SV	21	-446	444	.	.	.	.	108	.	.	.	.
11	SV	22	-438	436	413	-23	1	998	.	146	413	.	1
12	SV	7	-396	396	396	.	2	995	.	99	396	.	1
13	SV	8	-262	261	261	.	1	989	.	112	261	.	1
14	SV	23	-477	477	.	.	.	.	108	.	.	.	.
15	SV	24	-467	467	.	.	.	.	45	.	.	.	.
16	SV	25	-502	502	.	.	.	.	108	.	.	.	.
17	SV	26	-488	488	487	-1	1	964	.	70	487	.	1
18	SV	27	-480	480	.	.	.	.	117	.	.	.	.
19	SV	3	-859	860	860	.	1	932	.	164	860	.	1
20	SV	28	-498	499	.	.	.	.	77	.	.	.	.
21	SV	29	-537	538	.	.	.	.	82	538	.	1	
22	SV	30	-545	546	.	.	.	.	139	.	.	.	.
23	SV	31	-572	573	.	.	.	.	122	.	.	.	.
24	SV	32	-610	611	.	.	.	.	122	.	.	.	.
25	SV	33	-579	580	.	.	.	.	93	.	.	.	.
26	SV	34	-591	592	.	.	.	.	162	.	.	.	.
27	SV	9	-496	497	496	-1	1	986	.	82	496	.	1
28	SV	35	-591	592	592	.	1	990	.	180	592	.	1
29	SV	36	-597	598	.	.	.	.	128	.	.	.	.
30	SV	37	-624	625	.	.	.	.	127	.	.	.	.
31	SV	38	-631	632	.	.	.	.	225	.	.	.	.
32	SV	39	-709	710	712	2	1	984	.	107	713	1	1
33	SV	40	-702	703	.	.	.	.	142	.	.	.	.
34	SV	4	-1079	1081	1081	.	1	995	.	188	1080	-1	1
35	SV	41	-739	739	.	.	.	.	237	.	.	.	.
36	SV	42	-756	757	.	.	.	.	196	.	.	.	.
37	SV	43	-768	769	.	.	.	.	196	.	.	.	.
38	SV	44	-773	774	.	.	.	.	162	.	.	.	.
39	SV	45	-804	805	.	.	.	.	65	.	.	.	.
40	SV	46	-841	842	.	.	.	.	163	.	.	.	.

625 MW-1UB  
MW-3UB

RIC

06/23/88 16:23:00

SAMPLE: JOB 806053-1 MSD

CONDS.: GC5

RANGE: G 1.2300 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 806053MSD #1

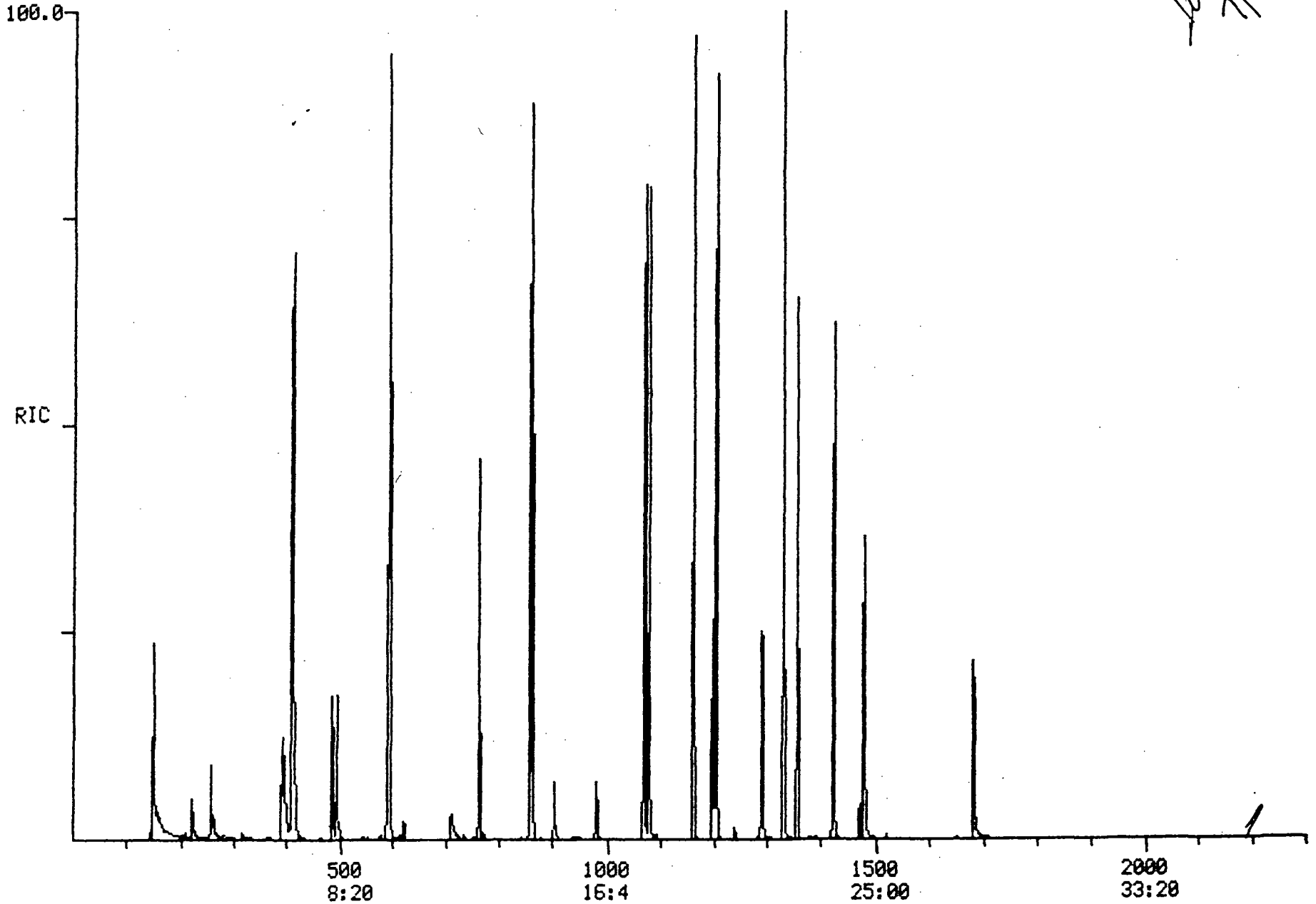
SCANS 1 TO 2300

CALI: 806053MSD #2

*Done*  
*7/15/88*

390144.

TCA FINISHED, 26 FOUND  
FINISHED AT: 6/23/88 17:13:57



SCAN  
TIME



No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
64	NOT	FOUND							
45	264	1683	28:03	65	1.000	A BB	106528.	100.000 NG/UL	7.69
6	244	1332	22:12	55	0.900	A BB	84266.	56.767 NG/UL	4.36
67	NOT	FOUND							
68	202	1292	21:32	55	0.873	A BB	118061.	56.752 NG/UL	4.36
69	NOT	FOUND							
70	NOT	FOUND							
71	NOT	FOUND							
72	149	1521	25:21	55	1.028	A BB	1156.	0.871 NG/UL	0.07
73	NOT	FOUND							
74	NOT	FOUND							
75	NOT	FOUND							
76	NOT	FOUND							
77	NOT	FOUND							
78	NOT	FOUND							
79	NOT	FOUND							
80	NOT	FOUND							

Quantitation Report File: 806053MSD

Data: 806053MSD.TI

06/23/88 16:23:00

Sample: JOB 806053-1 MSD

Conds.: GC5

Formula:

Instrument: 1050

Weight: 50.000

Submitted by:

Analyst: MGB

Acct. No.:

AMOUNT=AREA \* REF AMNT/(REF AREA \* RESP FACT)

Resp. fac. from Library Entry

No	Name
51	70B DIETHYL PHTHALATE (SV#55)
52	40B 4-CHLOROPHENYLPHENYL ETHER (SV#56)
53	80B FLUORENE (SV#57)
54	12H 4-NITROANILINE (SV#58)
55	IS5 CHRYSENE-D12 (SV#5)
56	60A 2-METHYL-4,6-DINITROPHENOL (SV#59)
57	62B N-NITROSODIPHENYLAMINE (SV#60)
58	41B 4-BROMOPHENYLPHENYL ETHER (SV#61)
59	9B HEXACHLOROBENZENE (SV#62)
60	64A PENTACHLOROPHENOL (SV#63)
61	81B PHENANTHRENE (SV#64)
62	78B ANTHRACENE (SV#65)
63	68B DI-N-BUTYL PHTHALATE (SV#66)
64	39B FLUORANTHENE (SV#67)
65	IS6 PERYLENE-D12 (SV#6)
66	SS6 TERPHENYL-D14 (SV#12)
67	5B BENZIDINE (SV#68)
68	84B PYRENE (SV#69)
69	67B BUTYL BENZYL PHTHALATE (SV#70)
70	28B 3,3'-DICHLOROBENZIDINE (SV#71)
71	72B BENZO(A)ANTHRACENE (SV#72)
72	66B BIS(2-ETHYLHEXYL)PHTHALATE (SV#73)
73	76B CHRYSENE (SV#74)
74	69B DI-N-OCTYL PHTHALATE (SV#75)
75	74B BENZO(B)FLUORANTHENE (SV#76)
76	74B BENZO(K)FLUORANTHENE (SV#77)
77	73B BENZO(A)PYRENE (SV#78)
78	83B INDENO(1,2,3-CD)PYRENE (SV#79)
79	82B DIBENZO(A,H)ANTHRACENE (SV#80)
80	79B BENZO(G,H,I)PERYLENE (SV#81)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	NOT FOUND								
52	NOT FOUND								
53	NOT FOUND								
54	NOT FOUND								
55	240	1480	24:40	55	1.000	A BB	133482.	100.000 NG/UL	7.69
56	NOT FOUND								
57	NOT FOUND								
58	NOT FOUND								
59	NOT FOUND								
60	266	1069	17:49	34	0.991	A BB	6175.	25.696 NG/UL	1.98
61	NOT FOUND								
62	NOT FOUND								
63	149	1199	19:59	34	1.111	A BV	142738.	43.797 NG/UL	3.37

No Name  
 48 BH DIBENZOFURAN (SV#52)  
 49 35B 2,4-DINITROTOLUENE (SV#53)  
 ) 36B 2,6-DINITROTOLUENE (SV#54)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	ZTot
1	152	410	6:50	1	1.000	A BB	152175.	100.000 NG/UL	7.69
2	136	595	9:55	2	1.000	A BB	386756.	100.000 NG/UL	7.69
3	42	263	4:23	1	0.641	A BB	444.	0.268 NG/UL	0.02
4	94	396	6:36	1	0.966	A BB	38109.	24.252 NG/UL	1.86
5	NOT FOUND								
6	NOT FOUND								
7	128	391	6:31	1	0.954	A BB	35365.	26.399 NG/UL	2.03
8	146	412	6:52	1	1.005	A BB	58788.	29.655 NG/UL	2.27
9	146	412	6:52	1	1.005	A BB	58788.	26.223 NG/UL	2.02
10	NOT FOUND								
11	146	412	6:52	1	1.005	A BB	58788.	30.051 NG/UL	2.31
12	99	394	6:34	1	0.961	A BV	48783.	32.147 NG/UL	2.47
13	112	258	4:18	1	0.629	A BB	41353.	35.448 NG/UL	2.73
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	70	486	8:06	1	1.185	A BV	43604.	37.330 NG/UL	2.87
18	NOT FOUND								
19	164	859	14:19	19	1.000	A BB	233470.	100.000 NG/UL	7.69
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	82	495	8:15	2	0.832	A BB	57505.	48.547 NG/UL	3.73
28	180	591	9:51	2	0.993	A BB	78272.	65.758 NG/UL	5.06
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	107	713	11:53	2	1.198	A BB	23966.	21.703 NG/UL	1.67
33	NOT FOUND								
34	188	1079	17:59	34	1.000	A BB	309338.	100.000 NG/UL	7.69
35	NOT FOUND								
36	NOT FOUND								
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	153	863	14:23	19	1.005	A BB	112502.	50.135 NG/UL	3.85
44	NOT FOUND								
45	172	766	12:46	19	0.892	A BB	120135.	52.751 NG/UL	4.06
46	330	981	16:21	19	1.142	A BB	9803.	39.000 NG/UL	3.00
47	NOT FOUND								
48	NOT FOUND								
49	NOT FOUND								
50	165	904	15:04	19	1.052	A BB	15659.	32.631 NG/UL	2.51

Quantitation Report File: 806053MSD

Data: 806053MSD.TI

4/23/88 16:23:00

Sample: JOB 806053-1 MSD

Conds.: GC5

Formula:

Instrument: 1050

Weight: 50.000

Submitted by:

Analyst: MGB

Acct. No.:

AMOUNT=AREA \* REF AMNT/(REF AREA \* RESP FACT)  
 Resp. fac. from Library Entry

No	Name
1	IS1 1,4-DICHLOROBENZENE-D4 (SV#1)
2	IS2 NAPHTHALENE-D8 (SV#2)
3	61B N-NITROSODIMETHYLAMINE (SV#14)
4	65A PHENOL (SV#15)
5	5H ANILINE (SV#16)
6	18B BIS(2-CHLOROETHYL)ETHER (SV#17)
7	24A 2-CHLOROPHENOL (SV#18)
8	26B 1,3-DICHLOROBENZENE (SV#19)
9	27B 1,4-DICHLOROBENZENE (SV#20)
10	6H BENZYL ALCOHOL (SV#21)
11	25B 1,2-DICHLOROBENZENE (SV#22)
12	SS2 PHENOL-D5 (SV#7)
13	SS1 2-FLUOROPHENOL (SV#8)
14	2H 2-METHYLPHENOL (SV#23)
15	42B BIS(2-CHLOROISOPROPYL)ETHER (SV#24)
16	4H 4-METHYLPHENOL (SV#25)
17	63B N-NITROSO-DI-N-PROPYLAMINE (SV#26)
18	12B HEXACHLOROETHANE (SV#27)
19	IS3 ACENAPHTHENE-D10 (SV#3)
20	56B NITROBENZENE (SV#28)
21	54B ISOPHORONE (SV#29)
22	57A 2-NITROPHENOL (SV#30)
23	34A 2,4-DIMETHYLPHENOL (SV#31)
24	1H BENZOIC ACID (SV#32)
25	43B BIS(2-CHLOROETHOXY)METHANE (SV#33)
26	31A 2,4-DICHLOROPHENOL (SV#34)
27	SS3 NITROBENZENE-D5 (SV#9)
28	8B 1,2,4-TRICHLOROBENZENE (SV#35)
29	55B NAPHTHALENE (SV#36)
30	7H 4-CHLOROANILINE (SV#37)
31	52B HEXACHLORO BUTADIENE (SV#38)
32	22A 4-CHLORO-3-METHYLPHENOL (SV#39)
33	9H 2-METHYLNAPHTHALENE (SV#40)
34	IS4 PHENANTHRENE-D10 (SV#4)
35	53B HEXACHLORO CYCLOPENTADIENE (SV#41)
36	21A 2,4,6-TRICHLOROPHENOL (SV#42)
37	4H 2,4,5-TRICHLOROPHENOL (SV#43)
38	20B 2-CHLORONAPHTHALENE (SV#44)
39	10H 2-NITROANILINE (SV#45)
40	71B DIMETHYL PHTHALATE (SV#46)
41	77B ACENAPHTHYLENE (SV#47)
42	11H 3-NITROANILINE (SV#48)
43	1B ACENAPHTHENE (SV#49)
44	59A 2,4-DINITROPHENOL (SV#50)
45	SS4 2-FLUOROBIPHENYL (SV#10)
46	SS5 2,4,6-TRIBROMOPHENOL (SV#11)
47	58A 4-NITROPHENOL (SV#51)

44	SV	50	-883	883	.	.	773	.	184	883	.	1	
45	SV	10	-766	766	766	.	1	994	.	172	766	.	1
46	SV	11	-981	981	981	.	1	992	.	330	981	.	1
47	SV	51	-927	927	.	.	.	.	.	139	.	.	.
48	SV	52	-888	888	.	.	.	.	.	168	.	.	.
49	SV	53	-848	848	.	.	.	.	.	89	.	.	.
50	SV	54	-904	904	904	.	1	909	.	165	904	.	1
51	SV	55	-950	950	.	.	.	.	.	149	.	.	.
52	SV	56	-948	948	.	.	.	.	.	204	.	.	.
53	SV	57	-940	940	.	.	.	.	.	166	.	.	.
54	SV	58	-964	964	.	.	.	.	.	138	.	.	.
55	SV	5	-1480	1480	1480	.	1	975	.	240	1480	.	1
56	SV	59	-964	965	.	.	.	.	.	198	.	.	.
57	SV	60	-970	971	.	.	.	.	.	169	.	.	.
58	SV	61	-1020	1021	.	.	.	.	.	248	.	.	.
59	SV	62	-1034	1035	.	.	.	.	.	284	.	.	.
60	SV	63	-1069	1070	1070	.	1	993	.	266	1069	-1	1
61	SV	64	-1082	1083	.	.	.	.	.	178	.	.	.
62	SV	65	-1088	1089	.	.	.	.	.	178	.	.	.
63	SV	66	-1199	1200	1199	-1	1	986	.	149	1199	.	1
64	SV	67	-1261	1261	.	.	.	.	.	202	.	.	.
65	SV	6	-1684	1683	1683	.	1	947	.	264	1683	.	1
66	SV	12	-1332	1332	1332	.	1	992	.	244	1332	.	1
67	SV	68	-1763	1763	.	.	.	.	.	184	.	.	.
68	SV	69	-1292	1292	1292	.	1	993	.	202	1292	.	1
69	SV	70	-1421	1421	.	.	.	.	.	149	.	.	.
70	SV	71	-2007	2006	.	.	.	.	.	252	.	.	.
71	SV	72	-1478	1478	.	.	.	.	.	228	.	.	.
72	SV	73	-1520	1520	1521	1	1	926	.	149	1521	.	1
73	SV	74	-1483	1483	.	.	.	.	.	228	.	.	.
74	SV	75	-1609	1609	.	.	.	.	.	149	.	.	.
75	SV	76	-1636	1636	.	.	.	.	.	252	.	.	.
76	SV	77	-1636	1636	.	.	.	.	.	252	.	.	.
77	SV	78	-1674	1674	.	.	.	.	.	252	.	.	.
78	SV	79	-1863	1863	.	.	.	.	.	276	.	.	.
79	SV	80	-1872	1872	.	.	.	.	.	278	.	.	.
80	SV	81	-1914	1914	.	.	.	.	.	276	.	.	.

PROCEDURE: TCA  
 DATA FILE: 806053MSD  
 REFERENCE: 806053MSD  
 NAME LIST: K1  
 REPORT: X1

DIAGNOSTIC REPORT

6/23/88 17:02:04

INITIALIZATION OPTION: 2    PROCESSING OPTION: 3

< ---- STANDARDS ---- >				>< --- PLUS UNKNOWN --- ><				>< - LIST NAMES - >	
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN	
2	2	1	0	11	7	2	1158	X1/Z1	
2	2	1	0	9	5	4	79	X1/ZA	
2	2	1	0	9	2	1	0	X2/Z2	
2	2	1	0	9	5	1	210	X2/ZB	
2	2	1	0	12	3	1	1	X3/Z3	
2	2	1	0	12	5	1	34	X3/ZC	
2	2	1	0	11	4	1	42	X4/Z4	
2	2	1	0	10	5	1	76	X5/Z5	
1	5	0	0	7	0	1	0	X6/Z6	

80 COMPOUNDS PROCESSED, 26 FOUND

< COMPOUND ><			----- SEARCH -----					>< SAT ><		----- CHRO ----- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	SV	1	-411	410	410	.	1	996	.	152	410	.	1
2	SV	2	-595	595	595	.	1	987	-1	136	595	.	1
3	SV	14	-263	261	.	.	.	.	.	42	263	.	1
4	SV	15	-398	395	396	1	2	997	.	94	396	.	1
5	SV	16	-621	617	.	.	.	.	.	93	.	.	.
6	SV	17	-389	386	.	.	.	.	.	93	.	.	.
7	SV	18	-393	390	392	2	1	997	.	128	391	-1	1
8	SV	19	-404	401	412	11	1	996	.	146	412	.	1
9	SV	20	-413	410	412	2	1	996	.	146	412	.	1
10	SV	21	-446	443	.	.	.	.	.	108	.	.	.
11	SV	22	-438	435	412	-23	1	996	.	146	412	.	1
12	SV	7	-396	394	394	.	2	992	.	99	394	.	1
13	SV	8	-262	258	258	.	2	990	.	112	258	.	1
14	SV	23	-477	476	.	.	.	.	.	108	.	.	.
15	SV	24	-467	466	.	.	.	.	.	45	.	.	.
16	SV	25	-502	501	.	.	.	.	.	108	.	.	.
17	SV	26	-488	487	486	-1	1	967	.	70	486	.	1
18	SV	27	-480	479	.	.	.	.	.	117	.	.	.
19	SV	3	-859	859	859	.	1	931	.	164	859	.	1
20	SV	28	-498	498	.	.	.	.	.	77	.	.	.
21	SV	29	-537	537	.	.	.	.	.	82	.	.	.
22	SV	30	-545	545	.	.	.	.	.	139	.	.	.
23	SV	31	-572	572	.	.	.	.	.	122	.	.	.
24	SV	32	-610	610	.	.	.	.	.	122	.	.	.
25	SV	33	-579	579	.	.	.	.	.	93	.	.	.
26	SV	34	-591	591	.	.	.	.	.	162	.	.	.
27	SV	9	-496	496	495	-1	1	990	.	82	495	.	1
28	SV	35	-591	591	591	.	1	992	.	180	591	.	1
29	SV	36	-597	597	.	.	.	.	.	128	.	.	.
30	SV	37	-624	624	.	.	.	.	.	127	.	.	.
31	SV	38	-631	632	.	.	.	.	.	225	.	.	.
32	SV	39	-709	710	713	3	1	984	.	107	713	.	1
33	SV	40	-702	703	.	.	.	.	.	142	.	.	.
34	SV	4	-1079	1080	1080	.	1	994	.	188	1079	-1	1
35	SV	41	-739	738	.	.	.	.	.	237	.	.	.
36	SV	42	-756	756	.	.	.	.	.	196	.	.	.
37	SV	43	-768	768	.	.	.	.	.	196	.	.	.
38	SV	44	-773	773	.	.	.	.	.	162	.	.	.
39	SV	45	-804	804	.	.	.	.	.	65	.	.	.
40	SV	46	-841	841	.	.	.	.	.	163	.	.	.

QUALITY CONTROL DATA: 482-3 & 881-1  
METHOD 625 & 8270

CLIENT: MONTGOMERY &amp; ASSOCIATES

UNITS: ug/l

DATE ANALYZED: 7/20/88

	FOUND	ACTUAL	% Recovery
BIS 2-CHLOROETHYL ETHER	50	48.2	104
1,3-DICHLOROBENZENE	54	52.0	104
1,2-DICHLOROBENZENE	50	24.7	202
NITROSODIPROPYLAMINE	41	34.8	118
ISOPHORONE	52	76.7	68
BIS (2-CHLOROETHOXY) METHANE	55	48.6	113
1,2,4-TRICHLOROBENZENE	53	25.3	209
HEXACHLOROBUTADIENE	55	49.6	111
2-CHLORONAPHTHALENE	60	25.4	236
2,6-DINITROTOLUENE	41	76.5	54
2,4-DINITROTOLUENE	38	73.8	51
DIETHYL PHTHALATE	61	25.1	243
HEXACHLOROBENZENE	53	35.7	148
PHENANTHRENE	61	40.2	152
DIBUTYL PHTHALATE	65	24.9	261
PYRENE	73	60.2	121
BENZO (A) ANTHRACENE	62	73.9	84
DIOCTYL PHTHALATE	57	43.9	130
BENZO (K) FLUORANTHENE	62	45.7	136
PHENOL	81	125	65
2-CHLOROPHENOL	153	150	102
2-NITROPHENOL	118	125	94
2,4-DIMETHYLPHENOL	75	75	100
2,4-DICHLOROPHENOL	115	125	92
4-CHLORO-3-METHYLPHENOL	107	112.5	95
2,4,6-TRICHLOROPHENOL	156	125	125
4-NITROPHENOL	133	125	106
2-METHYL-4,6-DINITROPHENOL	449	375	120
PENTACHLOROPHENOL	178	187.5	95

PROJECT MANAGER:

R.W.

DATE: 8/4/88

EPA 625

806096

MW-12LB

MW-3LB

RIC

07/28/88 18:45:38

SAMPLE: 50/80NG BNA STD

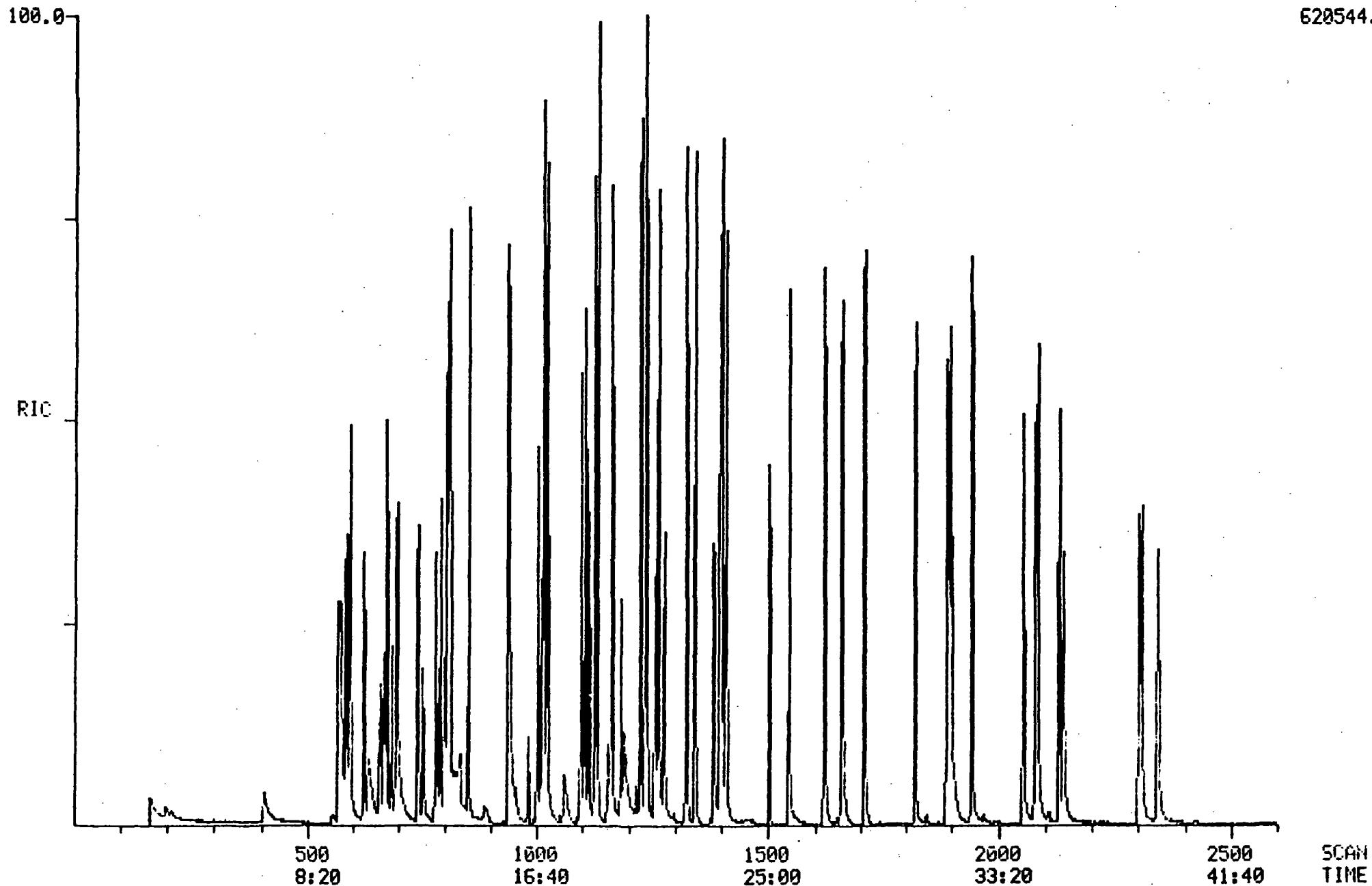
CONDS.: 1UL

RANGE: G 1,2600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 880382344 #1

SCANS 1 TO 2628

CALI: 880382344 #2





DATA FILE: 88M3B2344

REFERENCE: 88M3B2344

NAME LIST: K1 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3

REPORT: X1

< ---- STANDARDS ---- >				>< --- PLUS UNKNOWN --- ><				>< - LIST NAMES - >	
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN	
2	2	1	0	11	11	48	254	X1/Z1	
2	2	1	0	9	8	2	103	X1/ZA	
2	2	1	0	9	9	4	627	X2/Z2	
2	2	1	0	9	9	16	156	X2/ZB	
2	2	2	45	12	12	6	291	X3/Z3	
2	2	1	0	12	12	4	276	X3/ZC	
2	2	2	63	11	11	8	390	X4/Z4	
2	2	2	40	10	9	12	93	X5/Z5	
1	9	0	0	7	7	864	37	X6/Z6	

80 COMPOUNDS PROCESSED, 78 FOUND

< COMPOUND >			SEARCH						>< SAT ><		>< CHRO ><			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS	
1	SV	1	-591	590	590	.	1	981	.	152	590	.	1	
2	SV	2	-811	809	809	.	1	987	-1	136	809	.	1	
3	SV	14	-205	199	197	-2	4	901	.	42	197	.	1	
4	SV	15	-573	570	571	1	1	989	.	94	571	.	1	
5	SV	16	-558	555	557	2	1	958	.	93	556	-1	1	
6	SV	17	-567	564	566	2	1	956	.	93	566	.	1	
7	SV	18	-568	565	567	2	1	897	.	128	568	1	1	
8	SV	19	-584	582	583	1	2	989	.	146	583	.	1	
9	SV	20	-594	592	593	1	3	992	.	146	593	.	1	
10	SV	21	-642	640	634	-6	1	987	.	108	634	.	1	
11	SV	22	-624	622	622	.	2	990	.	146	622	.	1	
12	SV	7	-571	571	569	-2	2	987	.	99	569	.	1	
13	SV	8	-405	406	407	1	1	976	.	112	407	.	1	
14	SV	23	-668	667	667	.	1	998	.	108	667	.	1	
15	SV	24	-659	658	658	.	1	984	.	45	658	.	1	
16	SV	25	-697	696	.	.	.	.	.	108	.	.	.	
17	SV	26	-683	682	683	1	1	997	.	70	683	.	1	
18	SV	27	-675	674	673	-1	1	981	.	117	673	.	1	
19	SV	3	-1130	1127	1127	.	1	992	.	164	1127	.	1	
20	SV	28	-696	696	695	-1	1	984	.	77	695	.	1	
21	SV	29	-741	741	740	-1	1	992	.	82	740	.	1	
22	SV	30	-753	753	751	-2	1	965	.	139	750	-1	1	
23	SV	31	-781	781	779	-2	2	991	.	122	779	.	1	
24	SV	32	-820	820	835	15	1	991	.	122	835	.	1	
25	SV	33	-792	792	790	-2	1	995	.	93	790	.	1	
26	SV	34	-804	804	799	-5	2	989	.	162	799	.	1	
27	SV	9	-694	693	692	-1	1	978	.	82	692	.	1	
28	SV	35	-807	805	805	.	1	989	.	180	805	.	1	
29	SV	36	-814	812	812	.	1	989	-1	128	812	.	1	
30	SV	37	-851	849	852	3	4	886	.	127	854	2	1	
31	SV	38	-855	853	852	-1	1	999	.	225	852	.	1	
32	SV	39	-945	942	940	-2	2	962	.	107	940	.	1	
33	SV	40	-940	937	937	.	2	984	.	142	937	.	1	
34	SV	4	-1400	1397	1397	.	2	985	-1	188	1397	.	1	
35	SV	41	-984	979	981	2	1	992	.	237	981	.	1	
36	SV	42	-1005	1000	1002	2	2	995	.	196	1002	.	1	
37	SV	43	-1021	1016	1010	-6	1	989	.	196	1010	.	1	
38	SV	44	-1026	1021	1023	2	3	998	-1	162	1023	.	1	
39	SV	45	-1068	1063	1061	-2	1	968	.	65	1061	.	1	
40	SV	46	-1108	1104	1106	2	1	987	-1	163	1106	.	1	
41	SV	47	-1100	1096	1097	1	1	995	-1	152	1097	.	1	
42	SV	48	-1066	1061	1061	.	1	969	.	138	1060	-1	1	
43	SV	49	-1135	1131	1133	2	1	989	-2	153	1133	.	1	
44	SV	50	-1163	1159	1155	-4	1	969	.	184	1155	.	1	
45	SV	10	-1017	1015	1015	.	1	993	-1	172	1015	.	1	
46	SV	11	-1280	1277	1274	-1	1	888	.	230	1274	.	1	

43	SV	10	-1017	1019	1019	.	1	970	.	330	1276	.	1
46	SV	11	-1280	1277	1276	-1	1	998	.	330	1276	.	1
47	SV	51	-1214	1211	1217	6	2	960	.	139	.	.	1
48	SV	52	-1167	1165	1164	-1	1	977	-1	168	1163	-1	1
49	SV	53	-1187	1184	1183	-1	1	993	.	89	1183	.	1
50	SV	54	-1116	1114	1114	.	2	977	.	165	1113	-1	1
51	SV	55	-1241	1238	1240	2	1	987	-1	149	1240	.	1
52	SV	56	-1240	1237	1237	.	1	985	.	204	1237	.	1
53	SV	57	-1229	1226	1227	1	1	986	-2	166	1227	.	1
54	SV	58	-1279	1276	1270	-6	1	946	.	138	1271	1	1
55	SV	5	-1896	1893	1893	.	2	914	.	240	1893	.	1
56	SV	59	-1260	1254	1257	3	1	988	.	198	1257	.	1
57	SV	60	-1266	1261	1250	-11	2	737	.	169	1251	1	1
58	SV	61	-1328	1323	1325	2	1	983	.	248	1325	.	1
59	SV	62	-1346	1341	1343	2	1	996	.	284	1343	.	1
60	SV	63	-1387	1382	1383	1	1	996	.	266	1383	.	1
61	SV	64	-1404	1399	1401	2	2	984	-1	178	1401	.	1
62	SV	65	-1412	1407	1409	2	2	982	-1	178	1409	.	1
63	SV	66	-1549	1545	1546	1	1	980	-1	149	1546	.	1
64	SV	67	-1626	1623	1622	-1	1	981	-1	202	1622	.	1
65	SV	6	-2144	2140	2140	.	2	957	.	264	2140	.	1
66	SV	12	-1713	1710	1710	.	1	991	.	244	1709	-1	1
67	SV	68	-1713	1710	.	.	.	.	.	184	.	.	1
68	SV	69	-1664	1661	1661	.	1	987	-1	202	1660	-1	1
69	SV	70	-1824	1820	1821	1	1	988	.	149	1821	.	1
70	SV	71	-1910	1906	1904	-2	2	814	.	252	1904	.	1
71	SV	72	-1894	1890	1890	.	2	980	.	228	1890	.	1
72	SV	73	-1948	1944	1944	.	1	996	-1	149	1944	.	1
73	SV	74	-1901	1897	1897	.	3	980	.	228	1897	.	1
74	SV	75	-2057	2054	2054	.	2	993	-1	149	2054	.	1
75	SV	76	-2084	2081	2080	-1	2	922	.	252	2080	.	1
76	SV	77	-2088	2085	2085	.	2	974	-1	252	2085	.	1
77	SV	78	-2135	2131	2131	.	3	979	.	252	2131	.	1
78	SV	79	-2307	2302	2302	.	3	993	.	276	2302	.	1
79	SV	80	-2313	2308	2308	.	3	987	.	278	2308	.	1
80	SV	81	-2348	2343	2343	.	4	976	.	276	2343	.	1

CONTINUING CALIBRATION CHECK - SEMIVOLATILE HSL COMPOUNDS  
( PAGE 1 )

CASE NO: --  
LABORATORY ID: ATI  
CONTRACT NO: -  
INSTRUMENT ID: 5100  
SENSITIVITY ID: 2343

STANDARD DATE: 07/20/88  
TIME: 18:46:00  
STANDARD ID: 88M382344  
CALIBRATION DATE: 06/21/88

\* MAXIMUM %D FOR CCC IS 25%  
\*\* MINIMUM AVE RRF FOR SPCC IS 0.05

COMPOUND	AVE RRF	RF50	%D
N-NITROSODIMETHYLAMINE (SV#14)	0.519	0.225	57
PHENOL (SV#15)	1.557	1.408	10 *
ANILINE (SV#16)	1.126	0.177	84
BIS(2-CHLOROETHYL)ETHER (SV#1)	1.752	1.175	33
2-CHLOROPHENOL (SV#18)	1.160	1.010	13
1,3-DICHLOROBENZENE (SV#19)	1.419	1.266	11
1,4-DICHLOROBENZENE (SV#20)	1.547	1.318	15 *
BENZYL ALCOHOL (SV#21)	0.672	0.406	40
1,2-DICHLOROBENZENE (SV#22)	1.438	1.270	12
2-METHYLPHENOL (SV#23)	1.147	0.944	18
BIS(2-CHLOROISOPROPYL)ETHER (S	2.476	0.778	69
4-METHYLPHENOL (SV#25)	1.097	0.912	17
N-NITROSO-DI-N-PROPYLAMINE (S	1.199	0.830	31 **
HEXACHLOROETHANE (SV#27)	0.689	0.640	7
NITROBENZENE (SV#28)	0.460	0.427	7
ISOPHORONE (SV#29)	0.762	0.703	8
2-NITROPHENOL (SV#30)	0.143	0.122	15 *
2,4-DIMETHYLPHENOL (SV#31)	0.266	0.239	10
BENZOIC ACID (SV#32)	0.088	0.048	45
BIS(2-CHLOROETHOXY)METHANE (S	0.514	0.409	20
2,4-DICHLOROPHENOL (SV#34)	0.228	0.221	3 *
1,2,4-TRICHLOROBENZENE (SV#35)	0.321	0.317	1
NAPHTHALENE (SV#36)	1.014	0.859	15
4-CHLOROANILINE (SV#37)	0.152	0.069	55
HEXACHLORO BUTADIENE (SV#38)	0.215	0.249	-15 *
4-CHLORO-3-METHYLPHENOL (SV#3	0.369	0.315	15 *
2-METHYLNAPHTHALENE (SV#40)	0.901	0.857	5
HEXACHLOROCYCLOPENTADIENE (SV	0.152	0.055	64 **

AVE RRF - AVERAGE RESPONSE FACTOR FROM INITIAL CALIBRATION  
RF - RESPONSE FACTOR FROM DAILY CALIBRATION  
%D - PERCENT DIFFERENCE  
\*\* - SPCC - SYSTEM PERFORMANCE CHECK COMPOUNDS  
\* - CCC - CALIBRATION CHECK COMPOUNDS

CONTINUING CALIBRATION CHECK - SEMIVOLATILE HSL COMPOUNDS  
( PAGE 2 )

CASE NO: --  
LABORATORY ID: ATI  
CONTRACT NO: -  
INSTRUMENT ID: 5100  
SENSITIVITY ID: 2343

STANDARD DATE: 07/20/88  
TIME: 18:46:00  
STANDARD ID: 88M3B2344  
CALIBRATION DATE: 06/21/88

\* MAXIMUM %D FOR CCC IS 25%  
\*\* MINIMUM AVE RRF FOR SPCC IS 0.05

COMPOUND	AVE RRF	RF50	%D
2,4,6-TRICHLOROPHENOL (SV#42)	0.302	0.236	22 *
2,4,5-TRICHLOROPHENOL (SV#43)	0.328	0.129	61
2-CHLORONAPHTHALENE (SV#44)	1.005	0.895	11
2-NITROANILINE (SV#45)	0.495	0.053	89
DIMETHYL PHTHALATE (SV#46)	1.276	1.136	11
ACENAPHTHYLENE (SV#47)	1.518	1.044	31
3-NITROANILINE (SV#48)	0.322	0.045	86
ACENAPHTHENE (SV#49)	1.086	0.972	11
2,4-DINITROPHENOL (SV#50)	0.106	0.045	57 **
4-NITROPHENOL (SV#51)	0.174	0.068	61 **
DIBENZOFURAN (SV#52)	1.486	1.298	13
2,4-DINITROTOLUENE (SV#53)	0.358	0.279	22
2,6-DINITROTOLUENE (SV#54)	0.229	0.166	28
DIETHYL PHTHALATE (SV#55)	1.327	1.257	5
4-CHLOROPHENYLPHENYL ETHER (S	0.536	0.552	-2
FLUORENE (SV#57)	1.182	1.056	11
4-NITROANILINE (SV#58)	0.040	0.015	52
2-METHYL-4,6-DINITROPHENOL (S	0.097	0.045	54
N-NITROSODIPHENYLAMINE (SV#60)	0.343	0.204	41 *
4-BROMOPHENYLPHENYL ETHER (SV	0.210	0.230	8
HEXACHLOROBENZENE (SV#62)	0.298	0.326	-8
PENTACHLOROPHENOL (SV#63)	0.122	0.059	51 *
PHENANTHRENE (SV#64)	0.928	0.902	3
ANTHRACENE (SV#65)	0.917	0.857	7
DI-N-BUTYL PHTHALATE (SV#66)	1.184	0.969	18
FLUORANTHENE (SV#67)	1.003	0.941	6 *
BENZIDINE (SV#68)	0.020	0.023	-14
PYRENE (SV#69)	1.738	1.296	25
BUTYL BENZYL PHTHALATE (SV#70)	0.765	0.475	38
3,3'-DICHLOROBENZIDINE (SV#71)	0.143	0.057	60
BENZO(A)ANTHRACENE (SV#72)	1.101	0.981	11
BIS(2-ETHYLHEXYL)PHTHALATE (S	1.087	0.732	33
CHRYSENE (SV#74)	0.995	0.916	8
DI-N-OCTYL PHTHALATE (SV#75)	1.745	1.337	23 *
BENZO(B)FLUORANTHENE (SV#76)	1.360	1.214	11
BENZO(K)FLUORANTHENE (SV#77)	1.456	1.044	28
BENZO(A)PYRENE (SV#78)	1.132	1.052	7 *
INDENO(1,2,3-CD)PYRENE (SV#79)	1.178	0.970	18
DIBENZO(A,H)ANTHRACENE (SV#80)	0.869	0.883	-1
BENZO(G,H,I)PERYLENE (SV#81)	0.927	1.020	-9

AVERAGE %D FOR CCC IS: 16.0

AVE RRF - AVERAGE RESPONSE FACTOR FROM INITIAL CALIBRATION  
RF - RESPONSE FACTOR FROM DAILY CALIBRATION  
%D - PERCENT DIFFERENCE  
\*\* - SPCC - SYSTEM PERFORMANCE CHECK COMPOUNDS  
\* - CCC - CALIBRATION CHECK COMPOUNDS

Data: 88M3B2344.T1  
 07/20/88 18:46:00  
 Sample: 50/SONG BNA STD  
 Conds.: IUL  
 Standard ID: 2-BNA-4-1  
 Sensitivity ID: 2343

Instrument: 5100  
 Analyst: RJT Inst Cali:

AMOUNT=AREA \* REF AMNT/(REF AREA \* RESP FACT)

Resp. fac. from Library Entry

NO	NAME
1	IS1 1,4-DICHLOROBEZENE-D4
2	IS2 NAPHTHALENE-D8
3	IS3 ACENAPHTHENE-D8
4	IS4 PHENANTHRENE-D10
5	IS5 CHRYSENE-D12
6	IS6 PERYLENE-D12
7	SS2 PHENOL-D5
8	SS1 2-FLUOROPHENOL
9	SS3 NITROBEZENE-D5
10	SS4 2-FLUOROBIPHENYL
11	SS5 2,4,6-TRIBROMOPHENOL
12	SS6 TERPHENYL-D14
13	61B N-NITROSODIMETHYLAMINE
14	65A PHENOL
15	5H ANILINE
16	18B BIS (2-CHLOROETHYL) ETHER
17	24A 2-CHLOROPHENOL
18	26B 1,3-DICHLOROBEZENE
19	27B 1,4-DICHLOROBEZENE
20	6H BENZYL ALCOHOL
21	25B 1,2-DICHLOROBEZENE
22	2H 2-METHYLPHENOL
23	42B BIS (2-CHLOROISOPROPYL) ETHER
24	4H 4-METHYLPHENOL
25	63B N-NITROSO-DI-N-PROPYLAMINE
26	12B HEXACHLOROETHANE
27	56B NITROBEZENE
28	54B ISOPHORONE
29	57A 2-NITROPHENOL
30	34A 2,4-DIMETHYLPHENOL
31	1H BENZOIC ACID
32	43B BIS (2-CHLOROETHOXY) METHANE
33	31A 2,4-DICHLOROPHENOL
34	8B 1,2,4-TRICHLOROBEZENE
35	55B NAPHTHALENE
36	7H 4-CHLOROANILINE
37	52B HEXACHLOROBUTADIENE
38	22A 4-CHLORO-3-METHYLPHENOL
39	9H 2-METHYLNAPHTHALENE
40	53B HEXACHLOROCYCLOPENTADIENE
41	21A 2,4,6-TRICHLOROPHENOL
42	4H 2,4,5-TRICHLOROPHENOL
43	20B 2-CHLORONAPHTHALENE
44	10H 2-NITROANILINE
45	71B DIMETHYLPHTHALATE
46	77B ACENAPHTHYLENE
47	11H 3-NITROANILINE
48	1B ACENAPHTHENE
49	59A 2,4-DINITROPHENOL

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	590	9:50	1	1.000	A BV	102285.	40.000 NG/UL	0.94
2	136	809	13:29	2	1.000	A BB	418368.	40.000 NG/UL	0.94
3	164	1127	18:47	3	1.000	A BB	311211.	40.000 NG/UL	0.94
4	188	1397	23:17	4	1.000	A BV	493285.	40.000 NG/UL	0.94
5	240	1893	31:33	5	1.000	A BB	358550.	40.000 NG/UL	0.94
6	264	2140	35:40	6	1.000	A BB	305220.	40.000 NG/UL	0.94
7	99	569	9:29	1	0.964	A BB	129013.	50.000 NG/UL	1.18
8	112	407	6:47	1	0.690	A BB	50010.	50.000 NG/UL	1.18
9	82	692	11:32	2	0.855	A BB	142589.	50.000 NG/UL	1.18
10	172	1015	16:55	3	0.901	A BB	341337.	50.000 NG/UL	1.18
11	330	1276	21:16	3	1.132	A BB	77336.	50.000 NG/UL	1.18
12	244	1709	28:29	5	0.903	A BB	439398.	50.000 NG/UL	1.18
13	42	197	3:17	1	0.334	M XX	28719.	50.000 NG/UL	1.18
14	94	571	9:31	1	0.968	M XX	180055.	50.000 NG/UL	1.18
15	93	556	9:16	1	0.942	A BV	22645.	50.000 NG/UL	1.18
16	93	566	9:26	1	0.959	A VB	150271.	50.000 NG/UL	1.18
17	128	568	9:28	1	0.963	A BB	129163.	50.000 NG/UL	1.18
18	146	583	9:43	1	0.988	A BV	161862.	50.000 NG/UL	1.18
19	146	593	9:53	1	1.005	A VB	168497.	50.000 NG/UL	1.18
20	108	634	10:34	1	1.075	A BB	51860.	50.000 NG/UL	1.18
21	146	622	10:22	1	1.054	A BB	162398.	50.000 NG/UL	1.18
22	108	667	11:07	1	1.131	A BB	120645.	50.000 NG/UL	1.18
23	45	658	10:58	1	1.115	A BB	99484.	50.000 NG/UL	1.18
24	108	692	11:32	1	1.173	A BB	116628.	50.000 NG/UL	1.18
25	70	683	11:23	1	1.158	A BV	106161.	50.000 NG/UL	1.18
26	117	673	11:13	1	1.141	A BB	81885.	50.000 NG/UL	1.18
27	77	695	11:35	2	0.859	A BB	223323.	50.000 NG/UL	1.18
28	82	740	12:20	2	0.915	A BB	367765.	50.000 NG/UL	1.18
29	139	750	12:30	2	0.927	A BB	63954.	50.000 NG/UL	1.18
30	122	779	12:59	2	0.963	A BB	125058.	50.000 NG/UL	1.18
31	122	835	13:55	2	1.032	A BB	64156.	50.000 NG/UL	1.18
32	93	790	13:10	2	0.977	A BB	213923.	50.000 NG/UL	1.18
33	162	799	13:19	2	0.988	A BB	115532.	50.000 NG/UL	1.18
34	180	805	13:25	2	0.995	A BB	165866.	50.000 NG/UL	1.18
35	128	812	13:32	2	1.004	A BB	448979.	50.000 NG/UL	1.18
36	127	858	14:18	2	1.061	M XX	36337.	50.000 NG/UL	1.18
37	225	852	14:12	2	1.053	A BB	130080.	50.000 NG/UL	1.18
38	107	940	15:40	2	1.162	A BB	164928.	50.000 NG/UL	1.18
39	142	937	15:37	2	1.158	A BV	448183.	50.000 NG/UL	1.18
40	237	981	16:21	3	0.870	A BB	21322.	50.000 NG/UL	1.18
41	196	1002	16:42	3	0.889	A BV	91869.	50.000 NG/UL	1.18
42	196	1010	16:50	3	0.896	A VB	129103.	50.000 NG/UL	1.18
43	162	1023	17:03	3	0.908	A VB	348339.	50.000 NG/UL	1.18
44	65	1061	17:41	3	0.941	A BB	53614.	50.000 NG/UL	1.18
45	163	1106	18:26	3	0.981	A BB	441798.	50.000 NG/UL	1.18
46	152	1097	18:17	3	0.973	A BB	406032.	50.000 NG/UL	1.18
47	138	1060	17:40	3	0.941	A BB	44987.	50.000 NG/UL	1.18
48	153	1133	18:53	3	1.005	A BB	378211.	50.000 NG/UL	1.18
49	184	1155	19:15	3	1.025	M XX	45574.	50.000 NG/UL	1.18
50	139	1191	19:51	3	1.057	M XX	67812.	50.000 NG/UL	1.18

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	9:50	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	13:29	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	18:47	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	23:17	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	31:33	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	35:40	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	9:29	1.00	0.964	1.00	50.00	50.00	1.009	1.009	1.00
8	6:47	1.00	0.690	1.00	50.00	50.00	0.391	0.391	1.00
9	11:32	1.00	0.855	1.00	50.00	50.00	0.273	0.273	1.00
10	16:55	1.00	0.901	1.00	50.00	50.00	0.877	0.877	1.00
11	21:16	1.00	1.132	1.00	50.00	50.00	0.199	0.199	1.00
12	28:29	1.00	0.903	1.00	50.00	50.00	0.980	0.980	1.00
13	3:17	1.00	0.334	1.00	50.00	50.00	0.225	0.225	1.00
14	9:31	1.00	0.968	1.00	50.00	50.00	1.408	1.408	1.00
15	9:16	1.00	0.942	1.00	50.00	50.00	0.177	0.177	1.00
16	9:26	1.00	0.959	1.00	50.00	50.00	1.175	1.175	1.00
17	9:28	1.00	0.963	1.00	50.00	50.00	1.010	1.010	1.00
18	9:43	1.00	0.988	1.00	50.00	50.00	1.266	1.266	1.00
19	9:53	1.00	1.005	1.00	50.00	50.00	1.318	1.318	1.00
20	10:34	1.00	1.075	1.00	50.00	50.00	0.406	0.406	1.00
21	10:22	1.00	1.054	1.00	50.00	50.00	1.270	1.270	1.00
22	11:07	1.00	1.131	1.00	50.00	50.00	0.944	0.944	1.00
23	10:58	1.00	1.115	1.00	50.00	50.00	0.778	0.778	1.00
24	11:32	1.00	1.173	1.00	50.00	50.00	0.912	0.912	1.00
25	11:23	1.00	1.158	1.00	50.00	50.00	0.830	0.830	1.00
26	11:13	1.00	1.141	1.00	50.00	50.00	0.640	0.640	1.00
27	11:35	1.00	0.859	1.00	50.00	50.00	0.427	0.427	1.00
28	12:20	1.00	0.915	1.00	50.00	50.00	0.703	0.703	1.00
29	12:30	1.00	0.927	1.00	50.00	50.00	0.122	0.122	1.00
30	12:59	1.00	0.963	1.00	50.00	50.00	0.239	0.239	1.00
31	13:55	1.00	1.032	1.00	50.00	50.00	0.123	0.123	1.00
32	13:10	1.00	0.977	1.00	50.00	50.00	0.409	0.409	1.00
33	13:19	1.00	0.988	1.00	50.00	50.00	0.221	0.221	1.00
34	13:25	1.00	0.995	1.00	50.00	50.00	0.317	0.317	1.00
35	13:32	1.00	1.004	1.00	50.00	50.00	0.859	0.859	1.00
36	14:18	1.00	1.061	1.00	50.00	50.00	0.069	0.069	1.00
37	14:12	1.00	1.053	1.00	50.00	50.00	0.249	0.249	1.00
38	15:40	1.00	1.162	1.00	50.00	50.00	0.315	0.315	1.00
39	15:37	1.00	1.158	1.00	50.00	50.00	0.857	0.857	1.00
40	16:21	1.00	0.870	1.00	50.00	50.00	0.055	0.055	1.00
41	16:42	1.00	0.889	1.00	50.00	50.00	0.236	0.236	1.00
42	16:50	1.00	0.896	1.00	50.00	50.00	0.332	0.332	1.00
43	17:03	1.00	0.908	1.00	50.00	50.00	0.895	0.895	1.00
44	17:41	1.00	0.941	1.00	50.00	50.00	0.138	0.138	1.00
45	18:26	1.00	0.981	1.00	50.00	50.00	1.136	1.136	1.00
46	18:17	1.00	0.973	1.00	50.00	50.00	1.044	1.044	1.00
47	17:40	1.00	0.941	1.00	50.00	50.00	0.116	0.116	1.00
48	18:53	1.00	1.005	1.00	50.00	50.00	0.972	0.972	1.00
49	19:15	1.00	1.025	1.00	50.00	50.00	0.117	0.117	1.00
50	19:51	1.00	1.057	1.00	50.00	50.00	0.174	0.174	1.00

Date: 88M3B2344.T1

07/20/88 18:46:00

Sample: 50/BONG BNA STD

Conds.: 1UL

Standard ID: 2-BNA-4-1

Instrument: 5100

Sensitivity ID: 2343

Analyst: RJT Inst Cali:

AMOUNT=AREA \* REF AMNT/(REF AREA \* RESP FACT)

Resp. fac. from Library Entry

NO	NAME
51	8H DIBENZOFURAN
52	35B 2,4-DINITROTOLUENE
53	36B 2,6-DINITROTOLUENE
54	70B DIETHYLPHthalate
55	40B 4-CHLOROPHENYL-PHENYLETHER
56	80B FLUORENE
57	12H 4-NITROANILINE
58	60A 4,6-DINITRO-2-METHYLPHENOL
59	62B N-NITROSODIPHENYLAMINE
60	41B 4-BROMOPHENYL-PHENYLETHER
61	9B HEXACHLORO BENZENE
62	64A PENTACHLOROPHENOL
63	81B PHENANTHRENE
64	78B ANTHRACENE
65	68B DI-N-BUTYLPHthalate
66	39B FLUORANTHENE
67	5B BENZIDINE
68	84B PYRENE
69	67B BUTYLBENZYLPHthalate
70	28B 3,3'-DICHLORO BENZIDINE
71	72B BENZO(A)ANTHRACENE
72	66B BIS(2-ETHYLHEXYL)PHthalate
73	76B CHRYSENE
74	69B DI-N-OCTYLPHthalate
75	74B BENZO(B)FLUORANTHENE
76	74B BENZO(K)FLUORANTHENE
77	73B BENZO(A)PYRENE
78	83B INDENO(1,2,3-CD)PYRENE
79	82B DIBENZO(A,H)ANTHRACENE
80	79B BENZO(G,H,I)PERYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	168	1163	19:23	3	1.032	A VB	504939.	50.000 NG/UL	1.18
52	89	1183	19:43	3	1.050	A BB	108682.	50.000 NG/UL	1.18
53	165	1113	18:53	3	0.988	A VV	64611.	50.000 NG/UL	1.18
54	149	1240	20:40	3	1.100	A BB	488858.	50.000 NG/UL	1.18
55	204	1237	20:37	3	1.096	A BR	214913.	50.000 NG/UL	1.18
56	166	1227	20:27	3	1.089	A BB	410793.	50.000 NG/UL	1.18
57	138	1277	21:17	3	1.133	M XX	15521.	50.000 NG/UL	1.18
58	198	1257	20:57	4	0.900	A BV	71143.	50.000 NG/UL	1.18
59	169	1263	21:03	4	0.904	M XX	125659.	50.000 NG/UL	1.18
60	248	1325	22:05	4	0.948	A BB	141520.	50.000 NG/UL	1.18
61	284	1343	22:23	4	0.961	A BB	200975.	50.000 NG/UL	1.18
62	266	1383	23:03	4	0.990	M XX	93977.	50.000 NG/UL	1.18
63	178	1401	23:21	4	1.003	A BV	556350.	50.000 NG/UL	1.18
64	178	1409	23:29	4	1.009	A VB	528508.	50.000 NG/UL	1.18
65	149	1546	25:46	4	1.107	A BB	597682.	50.000 NG/UL	1.18
66	202	1622	27:02	4	1.161	A BB	580270.	50.000 NG/UL	1.18
67	184	1709	28:29	5	0.903	A BB	10435.	50.000 NG/UL	1.18



68	202	1660	27:40	5	0.877	A BB	581029.	50.000	NG/UL	1.18
69	149	1821	30:21	5	0.962	A BB	212741.	50.000	NG/UL	1.18
70	252	1904	31:44	5	1.006	A BB	25344.	50.000	NG/UL	1.18
71	228	1890	31:30	5	0.998	A BV	439724.	50.000	NG/UL	1.18
72	149	1944	32:24	5	1.027	A BB	328079.	50.000	NG/UL	1.18
73	228	1897	31:37	5	1.002	A VB	410568.	50.000	NG/UL	1.18
74	149	2054	34:14	6	0.960	M XX	510287.	50.000	NG/UL	1.18
75	252	2080	34:40	6	0.972	A BV	463053.	50.000	NG/UL	1.18
76	252	2085	34:45	6	0.974	A VB	398336.	50.000	NG/UL	1.18
77	252	2131	35:31	6	0.996	A BB	401431.	50.000	NG/UL	1.18
78	276	2302	38:22	6	1.076	A BV	369967.	50.000	NG/UL	1.18
79	278	2308	38:28	6	1.079	A BB	336902.	50.000	NG/UL	1.18
80	276	2343	39:03	6	1.095	A BB	389327.	50.000	NG/UL	1.18

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
51	19:23	1.00	1.032	1.00	50.00	50.00	1.298	1.298	1.00
52	19:43	1.00	1.050	1.00	50.00	50.00	0.279	0.279	1.00
53	18:33	1.00	0.988	1.00	50.00	50.00	0.166	0.166	1.00
54	20:40	1.00	1.100	1.00	50.00	50.00	1.257	1.257	1.00
55	20:37	1.00	1.098	1.00	50.00	50.00	0.552	0.552	1.00
56	20:27	1.00	1.089	1.00	50.00	50.00	1.056	1.056	1.00
57	21:17	1.00	1.133	1.00	50.00	50.00	0.040	0.040	1.00
58	20:57	1.00	0.900	1.00	50.00	50.00	0.115	0.115	1.00
59	21:03	1.00	0.904	1.00	50.00	50.00	0.204	0.204	1.00
60	22:05	1.00	0.948	1.00	50.00	50.00	0.230	0.230	1.00
61	22:23	1.00	0.961	1.00	50.00	50.00	0.326	0.326	1.00
62	23:03	1.00	0.990	1.00	50.00	50.00	0.152	0.152	1.00
63	23:21	1.00	1.003	1.00	50.00	50.00	0.902	0.902	1.00
64	23:29	1.00	1.009	1.00	50.00	50.00	0.857	0.857	1.00
65	25:46	1.00	1.107	1.00	50.00	50.00	0.969	0.969	1.00
66	27:02	1.00	1.161	1.00	50.00	50.00	0.941	0.941	1.00
67	28:29	1.00	0.903	1.00	50.00	50.00	0.023	0.023	1.00
68	27:40	1.00	0.877	1.00	50.00	50.00	1.296	1.296	1.00
69	30:21	1.00	0.962	1.00	50.00	50.00	0.475	0.475	1.00
70	31:44	1.00	1.006	1.00	50.00	50.00	0.057	0.057	1.00
71	31:30	1.00	0.998	1.00	50.00	50.00	0.981	0.981	1.00
72	32:24	1.00	1.027	1.00	50.00	50.00	0.732	0.732	1.00
73	31:37	1.00	1.002	1.00	50.00	50.00	0.916	0.916	1.00
74	34:14	1.00	0.960	1.00	50.00	50.00	1.337	1.337	1.00
75	34:40	1.00	0.972	1.00	50.00	50.00	1.214	1.214	1.00
76	34:45	1.00	0.974	1.00	50.00	50.00	1.044	1.044	1.00
77	35:31	1.00	0.996	1.00	50.00	50.00	1.052	1.052	1.00
78	38:22	1.00	1.076	1.00	50.00	50.00	0.970	0.970	1.00
79	38:28	1.00	1.079	1.00	50.00	50.00	0.883	0.883	1.00
80	39:03	1.00	1.095	1.00	50.00	50.00	1.020	1.020	1.00



GCMS B/N/A

ANALYSIS DATA:

7/20/88

ANALYST:

AST

<u>PARAMETER WP286</u>	<u>TRUE VALUE</u>	<u>SAMPLE RESULT</u>	<u>WARNING LIMITS</u>
Bis (2-chloroethyl) ether	50	_____	21.5 - 63.0
1,3-Dichlorobenzene	50	_____	8.4 - 76.9
1,2-Dichlorobenzene	50	_____	24.3 - 56.0
Nitrosodi-n-propylamine	50	_____	6.8 - 99.0
Isophorone	50	_____	23.3 - 90.1
Bis (2-Chloroethoxy)methane	50	_____	24.6 - 82.4
1,2,4-Trichlorobenzene	50	_____	28.7 - 64.6
Hexachlorobutadiene	50	_____	18.9 - 51.1
2-Chloronaphthalene	50	_____	32.3 - 56.8
2,6-Dinitrotoluene	50	_____	34.1 - 68.4
2,4-Dinitrotoluene	50	_____	23.8 - 63.5
Diethyl Phthalate	50	_____	0 - 50.0
Hexachlorobenzene	50	_____	3.9 - 70.8
Phenanthrene	50	_____	32.6 - 54.4
Di-n-butyl Phthalate	50	_____	4.2 - 55.5
Pyrene	50	_____	34.8 - 50.0
Benzo (a) anthracene	50	_____	20.9 - 66.5
Di-n-octyl Phthalate	50	_____	9.3 - 65.9
Benzo (k) fluoranthene	50	_____	12.6 - 72.9
<i>SEE OTHER SHEETS</i>			
<u>PARAMETER WP881</u>			
Phenol	125	<u>81</u>	20.8 - 125.0
2-Chlorophenol	150	<u>153</u>	54.3 - 180.6
2-Nitrophenol	125	<u>118</u>	56.3 - 208.5
2,4-Dimethylphenol	75	<u>75</u>	31.4 - 81.8
2,4-Dichlorophenol	125	<u>115</u>	65.8 - 152.3
4-Chloro-3-methylphenol	112.5	<u>107</u>	45.9 - 144.0
2,4,6-Trichlorophenol	125	<u>156</u>	65.5 - 161.5
4-Nitrophenol	125	<u>133</u>	16.3 - 133.3
2-Methyl-4,6-dinitrophenol	375	<u>449</u>	198.8 - 375.0
Pentachlorophenol	187.5	<u>178</u>	71.3 - 184.6

D = DETECTED: RESULTS MUST BE GREATER THAN ZERO

EPA QC CHECK STANDARDS RESULTS

GCMS B/N/A

WP482 SAMPLE 1

ANALYSIS DATE: 7/20/88

ANALYST: RJT

<u>PARAMETER</u>	<u>TRUE VALUE</u>	<u>SAMPLE RESULT</u>
Bis 2-chloroethyl ether	48.2	<u>50</u>
1,3-Dichlorobenzene	52.0	<u>54</u>
1,2-Dichlorobenzene	24.7	<u>50</u>
Nitrosodipropylamine	34.8	<u>41</u>
Isophorone	76.7	<u>52</u>
is (2-Chloroethoxy)methane	48.6	<u>55</u>
1,2,4-Trichlorobenzene	25.3	<u>53</u>
Hexachlorobutadiene	49.6	<u>55</u>
2-Chloronaphthalene	25.4	<u>60</u>
2,6-Dinitrotoluene	76.5	<u>41</u>
2,4-Dinitrotoluene	73.8	<u>38</u>
Diethyl Phthalate	25.1	<u>61</u>
Hexachlorobenzene	35.7	<u>53</u>
Phenanthrene	40.2	<u>61</u>
Dibutyl Phthalate	24.9	<u>65</u>
Pyrene	60.2	<u>73</u>
Benzo (a) anthracene	73.9	<u>62</u>
Dioctyl Phthalate	43.9	<u>67</u>
benzo (k) fluoranthene	45.7	<u>62</u>

625 MW-1UB  
MW-3UB

RIC  
06/23/88 10:56:00

DATA: STD623 #1  
CALI: STD623 #2

SCANS 1 TO 2300



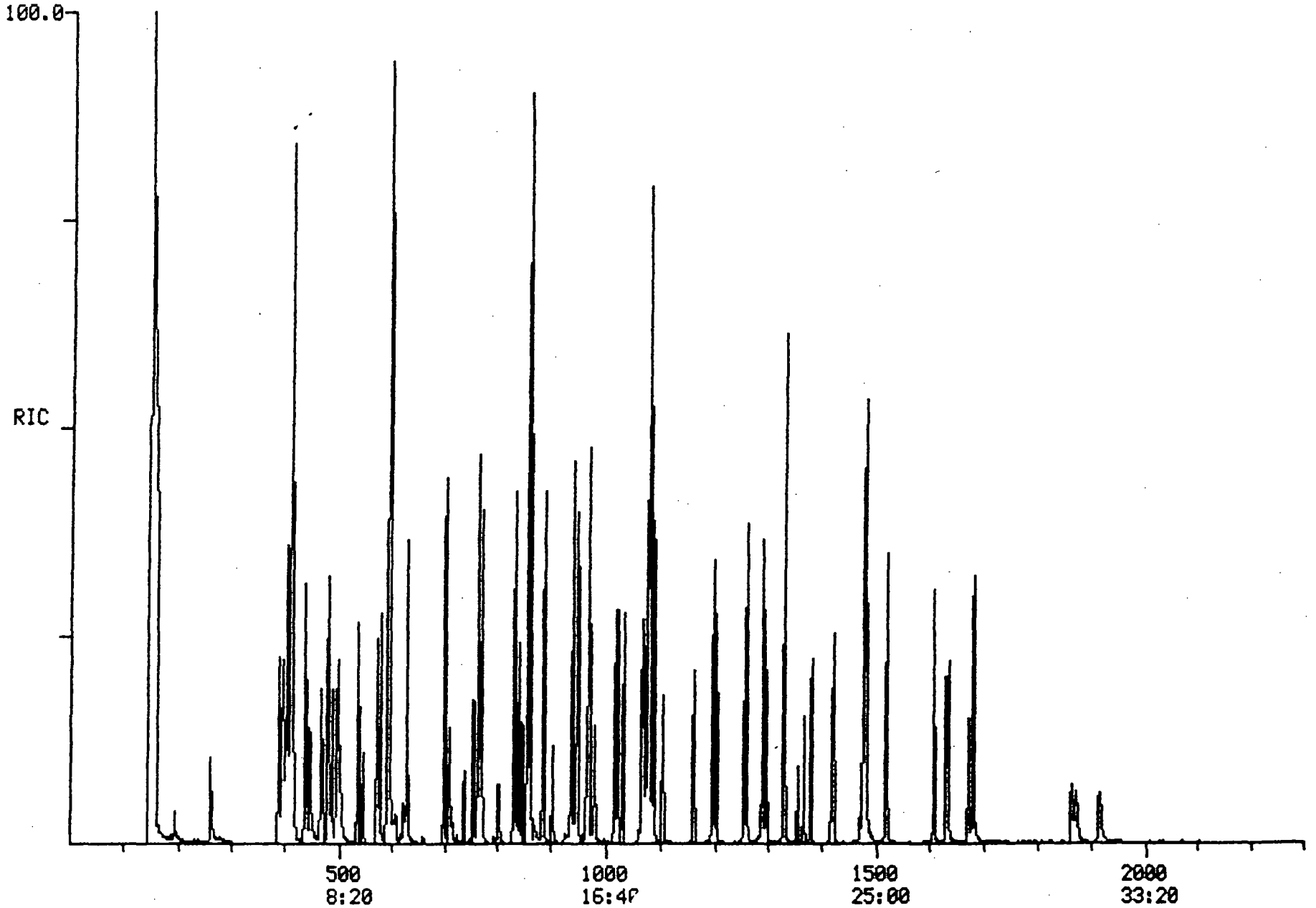
SAMPLE: STD MIX 50NG (6/20/88)

CONDS.: GC5

RANGE: G 1,2300 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

450288.

TCA FINISHED, 69 FOUND  
FINISHED AT: 6/23/88 11:48:43



SCAN  
TIME

PROCEDURE: TCA  
 DATA FILE: STD623  
 REFERENCE: STD623  
 NAME LIST: K1  
 REPORT: X1

DIAGNOSTIC REPORT

6/23/88 11:35:53

INITIALIZATION OPTION: 2 PROCESSING OPTION: 3

< ---- STANDARDS ---- >				>< --- PLUS UNKNOWN --- ><				> - LIST NAMES - <	
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN	
2	1	1	0	11	9	24	100	X1/Z1	
2	2	1	0	9	9	6	249	X1/ZA	
2	2	1	0	9	9	8	273	X2/Z2	
2	2	1	0	9	9	2	367	X2/ZB	
2	2	1	0	12	11	2	150	X3/Z3	
2	2	1	0	12	10	1	54	X3/ZC	
2	2	1	0	11	11	4	45	X4/Z4	
2	2	1	0	10	8	4	96	X5/Z5	
1	8	0	0	7	4	8	17	X6/Z6	

80 COMPOUNDS PROCESSED, 69 FOUND

< COMPOUND >			>< ----- SEARCH ----- ><					>< SAT ><		>< ----- CHRD ----- ><			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	SV	1	-424	411	411	.	1	996	.	152	411	.	1
2	SV	2	-607	588	.	.	.	.	.	136	.	.	.
3	SV	14	-263	255	.	.	.	.	.	42	.	.	.
4	SV	15	-412	399	398	-1	1	997	.	94	398	.	1
5	SV	16	-641	622	.	.	.	.	.	93	621	.	1
6	SV	17	-402	390	389	-1	2	996	.	93	389	.	1
7	SV	18	-407	394	394	.	1	990	.	128	393	-1	1
8	SV	19	-417	404	404	.	2	996	.	146	404	.	1
9	SV	20	-426	413	413	.	3	998	.	146	413	.	1
10	SV	21	-459	445	446	1	1	996	.	108	446	.	1
11	SV	22	-450	436	438	2	2	998	.	146	438	.	1
12	SV	7	-410	396	396	.	2	988	.	99	396	.	1
13	SV	8	-278	265	262	-3	1	989	.	112	262	.	1
14	SV	23	-490	476	477	1	3	987	.	108	477	.	1
15	SV	24	-479	465	467	2	1	991	.	45	467	.	1
16	SV	25	-514	500	502	2	1	987	.	108	502	.	1
17	SV	26	-500	486	488	2	1	969	.	70	488	.	1
18	SV	27	-493	479	480	1	1	987	.	117	480	.	1
19	SV	3	-871	859	859	.	1	931	.	164	859	.	1
20	SV	28	-510	497	498	1	2	1000	.	77	498	.	1
21	SV	29	-549	536	537	1	1	949	.	82	537	.	1
22	SV	30	-557	544	545	1	1	908	.	139	545	.	1
23	SV	31	-584	571	572	1	1	998	.	122	572	.	1
24	SV	32	-625	612	610	-2	2	991	.	122	610	.	1
25	SV	33	-590	577	579	2	1	991	.	93	579	.	1
26	SV	34	-606	593	591	-2	2	996	.	162	591	.	1
27	SV	9	-508	494	496	2	1	991	.	82	496	.	1
28	SV	35	-603	589	591	2	1	989	.	180	591	.	1
29	SV	36	-609	595	597	2	1	989	.	128	597	.	1
30	SV	37	-644	630	624	-6	1	992	.	127	624	.	1
31	SV	38	-642	628	631	3	1	996	.	225	631	.	1
32	SV	39	-724	710	709	-1	1	978	.	107	709	.	1
33	SV	40	-713	699	702	3	2	995	.	142	702	.	1
34	SV	4	-1090	1079	1079	.	1	992	.	188	1079	.	1
35	SV	41	-750	737	739	2	1	994	.	237	739	.	1
36	SV	42	-769	756	756	.	2	994	.	196	756	.	1
37	SV	43	-784	771	768	-3	1	996	.	196	768	.	1
38	SV	44	-784	771	773	2	1	940	.	162	773	.	1
39	SV	45	-816	804	803	-1	1	989	.	65	804	1	1
40	SV	46	-853	841	841	.	1	993	.	163	841	.	1

43	SV	47	-879	883	883	.	1	978	.	193	883	.	1
44	SV	50	-896	884	883	-1	1	989	.	184	883	.	1
45	SV	10	-777	765	766	1	1	998	.	172	766	.	1
46	SV	11	-993	982	981	-1	1	996	.	330	981	.	1
47	SV	51	-1267	1256	.	.	.	.	.	139	.	.	.
48	SV	52	-899	888	888	.	1	995	.	168	888	.	1
9	SV	53	-859	848	847	-1	1	950	.	89	848	1	1
50	SV	54	-916	905	904	-1	1	907	.	165	904	.	1
51	SV	55	-961	950	950	.	1	995	.	149	950	.	1
52	SV	56	-959	948	948	.	1	996	.	204	948	.	1
53	SV	57	-951	940	940	.	1	995	.	166	940	.	1
54	SV	58	-1349	1338	.	.	.	.	.	138	.	.	.
55	SV	5	-1491	1481	1481	.	1	993	.	240	1480	-1	1
56	SV	59	-976	965	965	.	1	899	.	198	964	-1	1
57	SV	60	-981	970	970	.	1	737	.	169	970	.	1
58	SV	61	-1031	1020	1020	.	1	991	.	248	1020	.	1
59	SV	62	-1045	1034	1034	.	1	991	.	284	1034	.	1
60	SV	63	-1081	1070	1069	-1	1	996	.	266	1069	.	1
61	SV	64	-1093	1082	1082	.	2	996	.	178	1082	.	1
62	SV	65	-1099	1088	1088	.	2	997	.	178	1088	.	1
63	SV	66	-1209	1198	1199	1	1	985	.	149	1199	.	1
64	SV	67	-1271	1261	1261	.	1	993	.	202	1261	.	1
65	SV	6	-1698	1684	1684	.	1	955	.	264	1684	.	1
66	SV	12	-1342	1333	1332	-1	1	873	.	244	1332	.	1
67	SV	68	-1763	1750	.	.	.	.	.	184	.	.	.
68	SV	69	-1302	1293	1292	-1	1	994	.	202	1292	.	1
69	SV	70	-1431	1421	1421	.	1	994	.	149	1421	.	1
70	SV	71	-2007	1992	.	.	.	.	.	252	.	.	.
71	SV	72	-1488	1477	1478	1	2	996	.	228	1478	.	1
72	SV	73	-1530	1519	1520	1	1	987	.	149	1520	.	1
73	SV	74	-1494	1483	1483	.	2	998	.	228	1483	.	1
74	SV	75	-1620	1609	1609	.	1	990	.	149	1609	.	1
75	SV	76	-1648	1636	1636	.	2	930	.	252	1636	.	1
76	SV	77	-1648	1636	1636	.	2	992	.	252	1636	.	1
77	SV	78	-1688	1674	1674	.	2	994	.	252	1674	.	1
78	SV	79	-1893	1870	.	.	.	.	.	276	.	.	.
79	SV	80	-1905	1881	.	.	.	.	.	278	.	.	.
80	SV	81	-1952	1926	.	.	.	.	.	276	.	.	.

Quantitation Report File: STD623

Data: STD623.TI

04/23/88 10:56:00

Sample: STD MIX 50NG (6/20/88)

Conds.: GC5

Formula:

Instrument: 1050

Weight: 50.000

Submitted by:

Analyst: MGB

Acct. No.:

AMOUNT=AREA \* REF AMNT/(REF AREA \* RESP FACT)  
 Resp. fac. from Library Entry

No	Name
1	IS1 1,4-DICHLOROBENZENE-D4 (SV#1)
2	IS2 NAPHTHALENE-D8 (SV#2)
3	61B N-NITROSODIMETHYLAMINE (SV#14)
4	65A PHENOL (SV#15)
5	5H ANILINE (SV#16)
6	18B BIS(2-CHLOROETHYL)ETHER (SV#17)
7	24A 2-CHLOROPHENOL (SV#18)
8	26B 1,3-DICHLOROBENZENE (SV#19)
9	27B 1,4-DICHLOROBENZENE (SV#20)
10	6H BENZYL ALCOHOL (SV#21)
11	25B 1,2-DICHLOROBENZENE (SV#22)
12	SS2 PHENOL-D5 (SV#7)
13	SS1 2-FLUOROPHENOL (SV#8)
14	2H 2-METHYLPHENOL (SV#23)
15	42B BIS(2-CHLOROISOPROPYL)ETHER (SV#24)
16	4H 4-METHYLPHENOL (SV#25)
17	63B N-NITROSO-DI-N-PROPYLAMINE (SV#26)
18	12B HEXACHLOROETHANE (SV#27)
19	IS3 ACENAPHTHENE-D10 (SV#3)
20	56B NITROBENZENE (SV#28)
21	54B ISOPHORONE (SV#29)
22	57A 2-NITROPHENOL (SV#30)
23	34A 2,4-DIMETHYLPHENOL (SV#31)
24	1H BENZOIC ACID (SV#32)
25	43B BIS(2-CHLOROETHOXY)METHANE (SV#33)
26	31A 2,4-DICHLOROPHENOL (SV#34)
27	SS3 NITROBENZENE-D5 (SV#9)
28	8B 1,2,4-TRICHLOROBENZENE (SV#35)
29	55B NAPHTHALENE (SV#36)
30	7H 4-CHLOROANILINE (SV#37)
31	52B HEXACHLORO BUTADIENE (SV#38)
32	22A 4-CHLORO-3-METHYLPHENOL (SV#39)
33	9H 2-METHYLNAPHTHALENE (SV#40)
34	IS4 PHENANTHRENE-D10 (SV#4)
35	53B HEXACHLOROCYCLOPENTADIENE (SV#41)
36	21A 2,4,6-TRICHLOROPHENOL (SV#42)
37	4H 2,4,5-TRICHLOROPHENOL (SV#43)
38	20B 2-CHLORONAPHTHALENE (SV#44)
39	10H 2-NITROANILINE (SV#45)
40	71B DIMETHYL PHTHALATE (SV#46)
41	77B ACENAPHTHYLENE (SV#47)
42	11H 3-NITROANILINE (SV#48)
43	1B ACENAPHTHENE (SV#49)
44	59A 2,4-DINITROPHENOL (SV#50)
45	884 2-FLUOROBIPHENYL (SV#10)
46	885 2,4,6-TRIBROMOPHENOL (SV#11)
47	58A 4-NITROPHENOL (SV#51)

No Name  
 48 BH DIBENZOFURAN (SV#52)  
 49 35B 2,4-DINITROTOLUENE (SV#53)  
 0 36B 2,6-DINITROTOLUENE (SV#54)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	NG/UL	%Tot
1	152	411	6:51	1	1.000	A BB	180266.	100.000	NG/UL	3.12
2	NOT FOUND									
3	NOT FOUND									
4	94	398	6:38	1	0.968	A BB	93072.	69.011	NG/UL	2.15
5	93	621	10:21	1	1.511	A BB	2783.	41.359	NG/UL	1.29
6	93	389	6:29	1	0.946	A BV	111440.	67.065	NG/UL	2.09
7	128	393	6:33	1	0.956	A BB	79347.	64.909	NG/UL	2.02
8	146	404	6:44	1	0.983	A BV	117813.	58.821	NG/UL	1.82
9	146	413	6:53	1	1.005	A VB	132784.	58.340	NG/UL	1.82
10	108	446	7:26	1	1.085	A BB	43239.	87.362	NG/UL	2.72
11	146	438	7:18	1	1.066	A BB	115870.	60.913	NG/UL	1.90
12	99	396	6:36	1	0.964	A BB	89882.	72.758	NG/UL	2.27
13	112	262	4:22	1	0.637	A BB	69097.	57.439	NG/UL	1.79
14	108	477	7:57	1	1.161	A BB	69223.	64.044	NG/UL	2.00
15	45	467	7:47	1	1.136	A BB	144964.	68.776	NG/UL	2.15
16	108	502	8:22	1	1.221	A BB	68771.	63.468	NG/UL	1.98
17	70	488	8:08	1	1.187	A BV	69184.	57.564	NG/UL	1.80
18	117	480	8:00	1	1.168	A BB	41570.	52.518	NG/UL	1.64
19	164	859	14:19	19	1.000	A BB	298264.	100.000	NG/UL	3.12
20	77	498	8:18	2	ISNFD	A BB	103437.	*****	NG/UL	00.00
21	82	537	8:57	2	ISNFD	A BB	179645.	*****	NG/UL	00.00
22	139	545	9:05	2	ISNFD	A BB	28924.	*****	NG/UL	00.00
23	122	572	9:32	2	ISNFD	A BB	61460.	*****	NG/UL	00.00
24	122	610	10:10	2	ISNFD	A BV	26432.	*****	NG/UL	00.00
25	93	579	9:39	2	ISNFD	A BB	117954.	*****	NG/UL	00.00
26	162	591	9:51	2	ISNFD	A BB	54614.	*****	NG/UL	00.00
27	82	496	8:16	2	ISNFD	A BB	73390.	*****	NG/UL	00.00
28	180	591	9:51	2	ISNFD	A BB	73748.	*****	NG/UL	00.00
29	128	597	9:57	2	ISNFD	A BB	254553.	*****	NG/UL	00.00
30	127	624	10:24	2	ISNFD	A BB	40790.	*****	NG/UL	00.00
31	225	631	10:31	2	ISNFD	A BB	35878.	*****	NG/UL	00.00
32	107	709	11:49	2	ISNFD	A BB	68418.	*****	NG/UL	00.00
33	142	702	11:42	2	ISNFD	A BV	141893.	*****	NG/UL	00.00
34	188	1079	17:59	34	1.000	A BB	399015.	100.000	NG/UL	3.12
35	237	739	12:19	19	0.860	A BB	11445.	30.556	NG/UL	0.95
36	196	756	12:36	19	0.880	A BB	29006.	44.420	NG/UL	1.39
37	196	768	12:48	19	0.894	A BB	32186.	47.195	NG/UL	1.47
38	162	773	12:53	19	0.900	A BB	133331.	44.668	NG/UL	1.39
39	65	804	13:24	19	0.936	A BB	32102.	53.152	NG/UL	1.66
40	163	841	14:01	19	0.979	A BB	135363.	43.195	NG/UL	1.35
41	152	834	13:54	19	0.971	A BV	189433.	44.657	NG/UL	1.39
42	NOT FOUND									
43	153	863	14:23	19	1.005	A BB	143336.	47.297	NG/UL	1.48
44	184	883	14:43	19	1.028	A BB	3668.	29.687	NG/UL	0.93
45	172	766	12:46	19	0.892	A BB	145472.	43.586	NG/UL	1.36
46	330	981	16:21	19	1.142	A BB	16056.	40.828	NG/UL	1.27
47	NOT FOUND									
48	168	888	14:48	19	1.034	A BB	188032.	46.512	NG/UL	1.45
49	89	848	14:08	19	0.987	A BB	13792.	41.646	NG/UL	1.30
50	165	904	15:04	19	1.052	A BB	30653.	52.729	NG/UL	1.64



Quantitation Report File: STD623

Data: STD623.TI  
 06/23/88 10:56:00  
 Sample: STD MIX 50NG (6/20/88)  
 Conds.: GC5  
 Formula:  
 Submitted by:

Instrument: 1050  
 Analyst: MGB

Weight: 50.000  
 Acct. No.:

AMOUNT=AREA \* REF AMNT/(REF AREA \* RESP FACT)  
 Resp. fac. from Library Entry

No	Name
51	70B DIETHYL PHTHALATE (SV#55)
52	40B 4-CHLOROPHENYLPHENYL ETHER (SV#56)
53	80B FLUORENE (SV#57)
54	12H 4-NITROANILINE (SV#58)
55	IS5 CHRYSENE-D12 (SV#5)
56	60A 2-METHYL-4,6-DINITROPHENOL (SV#59)
57	62B N-NITROSODIPHENYLAMINE (SV#60)
58	41B 4-BROMOPHENYLPHENYL ETHER (SV#61)
59	9B HEXACHLOROBENZENE (SV#62)
60	64A PENTACHLOROPHENOL (SV#63)
61	81B PHENANTHRENE (SV#64)
62	78B ANTHRACENE (SV#65)
63	68B DI-N-BUTYL PHTHALATE (SV#66)
64	39B FLUORANTHENE (SV#67)
65	IS6 PERYLENE-D12 (SV#6)
66	SS6 TERPHENYL-D14 (SV#12)
67	5B BENZIDINE (SV#68)
68	84B PYRENE (SV#69)
69	67B BUTYL BENZYL PHTHALATE (SV#70)
70	28B 3,3'-DICHLOROBENZIDINE (SV#71)
71	72B BENZO(A)ANTHRACENE (SV#72)
72	66B BIS(2-ETHYLHEXYL)PHTHALATE (SV#73)
73	76B CHRYSENE (SV#74)
74	69B DI-N-OCTYL PHTHALATE (SV#75)
75	74B BENZO(B)FLUORANTHENE (SV#76)
76	74B BENZO(K)FLUORANTHENE (SV#77)
77	73B BENZO(A)PYRENE (SV#78)
78	83B INDENO(1,2,3-CD)PYRENE (SV#79)
79	82B DIBENZO(A,H)ANTHRACENE (SV#80)
80	79B BENZO(G,H,I)PERYLENE (SV#81)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	149	950	15:50	19	1.106	A BB	156057.	45.525 NG/UL	1.42
52	204	948	15:48	19	1.104	A BB	63555.	44.189 NG/UL	1.38
53	166	940	15:40	19	1.094	A BB	144157.	48.793 NG/UL	1.52
54	NOT FOUND								
55	240	1480	24:40	55	1.000	A BB	207596.	100.000 NG/UL	3.12
56	198	964	16:04	34	0.893	A BB	7959.	41.129 NG/UL	1.28
57	169	970	16:10	34	0.899	A BV	71792.	48.635 NG/UL	1.52
58	248	1020	17:00	34	0.945	A BB	33191.	52.212 NG/UL	1.63
59	284	1034	17:14	34	0.958	A BB	44879.	48.130 NG/UL	1.50
60	266	1069	17:49	34	0.991	A BB	15499.	56.979 NG/UL	1.78
61	178	1082	18:02	34	1.003	A BV	204880.	58.004 NG/UL	1.81
62	178	1088	18:08	34	1.008	A VB	168231.	49.241 NG/UL	1.54
63	149	1199	19:59	34	1.111	A BB	210194.	56.786 NG/UL	1.77

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
64	202	1261	21:01	34	1.169	A BB	178681.	51.495 NG/UL	1.61
45	264	1684	28:04	65	1.000	A VB	144793.	100.000 NG/UL	3.12
6	244	1332	22:12	55	0.900	A VB	115431.	54.573 NG/UL	1.70
67	NOT FOUND								
68	202	1292	21:32	55	0.873	A VB	161768.	57.669 NG/UL	1.80
69	149	1421	23:41	55	0.960	A BB	69782.	80.478 NG/UL	2.51
70	NOT FOUND								
71	228	1478	24:38	55	0.999	A BV	114167.	55.323 NG/UL	1.73
72	149	1520	25:20	55	1.027	A BB	103221.	82.738 NG/UL	2.58
73	228	1483	24:43	55	1.002	A VB	98151.	53.825 NG/UL	1.68
74	149	1609	26:49	65	0.955	A VV	143835.	90.547 NG/UL	2.82
75	252	1636	27:16	65	0.971	A VB	80624.	26.279 NG/UL	0.82
76	252	1636	27:16	65	0.971	A VB	80624.	26.279 NG/UL	0.82
77	252	1674	27:54	65	0.994	A BB	69671.	46.167 NG/UL	1.44
78	NOT FOUND								
79	NOT FOUND								
80	NOT FOUND								

Data: STD623.TI

06/23/88 10:56:00

Sample: STD MIX 50NG (6/20/88)

Conds.: GC5

Formula:

Instrument: 1050

Weight: 50.000

Submitted by:

Analyst: MGB

Acct. No.:

AMOUNT=AREA \* REF AMNT/(REF AREA \* RESP FACT)

Resp. fac. from Library Entry

No	Name
1	IS1 1,4-DICHLOROBENZENE-D4 (SV#1)
2	IS2 NAPHTHALENE-D8 (SV#2)
3	IS3 ACENAPHTHENE-D10 (SV#3)
4	IS4 PHENANTHRENE-D10 (SV#4)
5	IS5 CHRYSENE-D12 (SV#5)
6	IS6 PERYLENE-D12 (SV#6)
7	SS2 PHENOL-D5 (SV#7)
8	SS1 2-FLUOROPHENOL (SV#8)
9	SS3 NITROBENZENE-D5 (SV#9)
10	SS4 2-FLUOROBIPHENYL (SV#10)
11	SS5 2,4,6-TRIBROMOPHENOL (SV#11)
12	SS6 TERPHENYL-D14 (SV#12)
13	65A PHENOL (SV#15)
14	5H ANILINE (SV#16)
15	18B BIS(2-CHLOROETHYL)ETHER (SV#17)
16	24A 2-CHLOROPHENOL (SV#18)
17	26B 1,3-DICHLOROBENZENE (SV#19)
18	27B 1,4-DICHLOROBENZENE (SV#20)
19	6H BENZYL ALCOHOL (SV#21)
20	25B 1,2-DICHLOROBENZENE (SV#22)
21	2H 2-METHYLPHENOL (SV#23)
22	42B BIS(2-CHLOROISOPROPYL)ETHER (SV#24)
23	4H 4-METHYLPHENOL (SV#25)
24	63B N-NITROSO-DI-N-PROPYLAMINE (SV#26)
25	12B HEXACHLOROETHANE (SV#27)
26	56B NITROBENZENE (SV#28)
27	54B ISOPHORONE (SV#29)
28	57A 2-NITROPHENOL (SV#30)
29	34A 2,4-DIMETHYLPHENOL (SV#31)
30	1H BENZOIC ACID (SV#32)
31	43B BIS(2-CHLOROETHOXY)METHANE (SV#33)
32	31A 2,4-DICHLOROPHENOL (SV#34)
33	8B 1,2,4-TRICHLOROBENZENE (SV#35)
34	55B NAPHTHALENE (SV#36)
35	7H 4-CHLOROANILINE (SV#37)
36	52B HEXACHLOROBUTADIENE (SV#38)
37	22A 4-CHLORO-3-METHYLPHENOL (SV#39)
38	9H 2-METHYLNAPHTHALENE (SV#40)
39	53B HEXACHLOROCYCLOPENTADIENE (SV#41)
40	21A 2,4,6-TRICHLOROPHENOL (SV#42)
41	4H 2,4,5-TRICHLOROPHENOL (SV#43)
42	20B 2-CHLORONAPHTHALENE (SV#44)
43	10H 2-NITROANILINE (SV#45)
44	71B DIMETHYL PHTHALATE (SV#46)
45	77B ACENAPHTHYLENE (SV#47)
46	11H 3-NITROANILINE (SV#48)
47	1B ACENAPHTHENE (SV#49)

No	Name
48	59A 2,4-DINITROPHENOL (SV#50)
49	58A 4-NITROPHENOL (SV#51)
0	BH DIBENZOFURAN (SV#52)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	411	6:51	1	1.000	A BB	180266.	100.000 NG/UL	2.36
2	136	595	9:55	2	1.000	A BB	479250.	100.000 NG/UL	2.36
3	164	859	14:19	3	1.000	A BB	298264.	100.000 NG/UL	2.36
4	188	1079	17:59	4	1.000	A BB	399015.	100.000 NG/UL	2.36
5	240	1480	24:40	5	1.000	A BB	207596.	100.000 NG/UL	2.36
6	264	1684	28:04	6	1.000	A VB	144793.	100.000 NG/UL	2.36
7	99	396	6:36	1	0.964	A BB	89882.	50.000 NG/UL	1.18
8	112	262	4:22	1	0.637	A BB	69097.	50.000 NG/UL	1.18
9	82	496	8:16	2	0.834	A BB	73390.	50.000 NG/UL	1.18
10	172	766	12:46	3	0.892	A BB	145472.	50.000 NG/UL	1.18
11	330	981	16:21	3	1.142	A BB	16056.	50.000 NG/UL	1.18
12	244	1332	22:12	5	0.900	A VB	115431.	50.000 NG/UL	1.18
13	94	398	6:38	1	0.968	A BB	93072.	50.000 NG/UL	1.18
14	93	621	10:21	1	1.511	A BB	2783.	50.000 NG/UL	1.18
15	93	389	6:29	1	0.946	A BV	111440.	50.000 NG/UL	1.18
16	128	393	6:33	1	0.956	A BB	79347.	50.000 NG/UL	1.18
17	146	404	6:44	1	0.983	A BV	117813.	50.000 NG/UL	1.18
18	146	413	6:53	1	1.005	A VB	132784.	50.000 NG/UL	1.18
19	108	446	7:26	1	1.085	A BB	43239.	50.000 NG/UL	1.18
20	146	438	7:18	1	1.066	A BB	115870.	50.000 NG/UL	1.18
21	108	477	7:57	1	1.161	A BB	69223.	50.000 NG/UL	1.18
22	45	467	7:47	1	1.136	A BB	144964.	50.000 NG/UL	1.18
23	108	502	8:22	1	1.221	A BB	68771.	50.000 NG/UL	1.18
24	70	488	8:08	1	1.187	A BV	69184.	50.000 NG/UL	1.18
25	117	480	8:00	1	1.168	A BB	41570.	50.000 NG/UL	1.18
26	77	498	8:18	2	0.837	A BB	103437.	50.000 NG/UL	1.18
27	82	537	8:57	2	0.903	A BB	179645.	50.000 NG/UL	1.18
28	139	545	9:05	2	0.916	A BB	28924.	50.000 NG/UL	1.18
29	122	572	9:32	2	0.961	A BB	61460.	50.000 NG/UL	1.18
30	122	610	10:10	2	1.025	A BV	26432.	50.000 NG/UL	1.18
31	93	579	9:39	2	0.973	A BB	117954.	50.000 NG/UL	1.18
32	162	591	9:51	2	0.993	A BB	54614.	50.000 NG/UL	1.18
33	180	591	9:51	2	0.993	A BB	73748.	50.000 NG/UL	1.18
34	128	597	9:57	2	1.003	A BB	254553.	50.000 NG/UL	1.18
35	127	624	10:24	2	1.049	A BB	40790.	50.000 NG/UL	1.18
36	225	631	10:31	2	1.061	A BB	35878.	50.000 NG/UL	1.18
37	107	709	11:49	2	1.192	A BB	68418.	50.000 NG/UL	1.18
38	142	702	11:42	2	1.180	A BV	141893.	50.000 NG/UL	1.18
39	237	739	12:19	3	0.860	A BB	11445.	50.000 NG/UL	1.18
40	196	756	12:36	3	0.880	A BB	29006.	50.000 NG/UL	1.18
41	196	768	12:48	3	0.894	A BB	32186.	50.000 NG/UL	1.18
42	162	773	12:53	3	0.900	A BB	133331.	50.000 NG/UL	1.18
43	65	804	13:24	3	0.936	A BB	32102.	50.000 NG/UL	1.18
44	163	841	14:01	3	0.979	A BB	135363.	50.000 NG/UL	1.18
45	152	834	13:54	3	0.971	A BV	189433.	50.000 NG/UL	1.18
46	138	871	14:31	3	1.014	A BV	11533.	80.000 NG/UL	1.89
47	153	863	14:23	3	1.005	A BB	143336.	50.000 NG/UL	1.18
48	184	883	14:43	3	1.028	A BB	3668.	50.000 NG/UL	1.18
49	139	927	15:27	3	1.079	A BV	8867.	80.000 NG/UL	1.89
50	168	888	14:48	3	1.034	A BB	188032.	50.000 NG/UL	1.18

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	6:51	1.00	1.000	1.00	100.00	100.00	1.000	1.000	1.00
2	9:55	1.00	1.000	1.00	100.00	100.00	1.000	1.000	1.00
3	14:19	1.00	1.000	1.00	100.00	100.00	1.000	1.000	1.00
4	17:59	1.00	1.000	1.00	100.00	100.00	1.000	1.000	1.00
5	24:40	1.00	1.000	1.00	100.00	100.00	1.000	1.000	1.00
6	28:04	1.00	1.000	1.00	100.00	100.00	1.000	1.000	1.00
7	6:36	1.00	0.964	1.00	50.00	50.00	0.997	0.997	1.00
8	4:22	1.00	0.637	1.00	50.00	50.00	0.767	0.767	1.00
9	8:16	1.00	0.834	1.00	50.00	50.00	0.306	0.306	1.00
10	12:46	1.00	0.892	1.00	50.00	50.00	0.975	0.975	1.00
11	16:21	1.00	1.142	1.00	50.00	50.00	0.108	0.108	1.00
12	22:12	1.00	0.900	1.00	50.00	50.00	1.112	1.112	1.00
13	6:38	1.00	0.968	1.00	50.00	50.00	1.033	1.033	1.00
14	10:21	1.00	1.511	1.00	50.00	50.00	0.031	0.031	1.00
15	6:29	1.00	0.946	1.00	50.00	50.00	1.236	1.236	1.00
16	6:33	1.00	0.956	1.00	50.00	50.00	0.880	0.880	1.00
17	6:44	1.00	0.983	1.00	50.00	50.00	1.307	1.307	1.00
18	6:53	1.00	1.005	1.00	50.00	50.00	1.473	1.473	1.00
19	7:26	1.00	1.085	1.00	50.00	50.00	0.480	0.480	1.00
20	7:18	1.00	1.066	1.00	50.00	50.00	1.286	1.286	1.00
21	7:57	1.00	1.161	1.00	50.00	50.00	0.768	0.768	1.00
22	7:47	1.00	1.136	1.00	50.00	50.00	1.608	1.608	1.00
23	8:22	1.00	1.221	1.00	50.00	50.00	0.763	0.763	1.00
24	8:08	1.00	1.187	1.00	50.00	50.00	0.768	0.768	1.00
25	8:00	1.00	1.168	1.00	50.00	50.00	0.461	0.461	1.00
26	8:18	1.00	0.837	1.00	50.00	50.00	0.432	0.432	1.00
27	8:57	1.00	0.903	1.00	50.00	50.00	0.750	0.750	1.00
28	9:05	1.00	0.916	1.00	50.00	50.00	0.121	0.121	1.00
29	9:32	1.00	0.961	1.00	50.00	50.00	0.256	0.256	1.00
30	10:10	1.00	1.025	1.00	50.00	50.00	0.110	0.110	1.00
31	9:39	1.00	0.973	1.00	50.00	50.00	0.492	0.492	1.00
32	9:51	1.00	0.993	1.00	50.00	50.00	0.228	0.228	1.00
33	9:51	1.00	0.993	1.00	50.00	50.00	0.308	0.308	1.00
34	9:57	1.00	1.003	1.00	50.00	50.00	1.062	1.062	1.00
35	10:24	1.00	1.049	1.00	50.00	50.00	0.170	0.170	1.00
36	10:31	1.00	1.061	1.00	50.00	50.00	0.150	0.150	1.00
37	11:49	1.00	1.192	1.00	50.00	50.00	0.286	0.286	1.00
38	11:42	1.00	1.180	1.00	50.00	50.00	0.592	0.592	1.00
39	12:19	1.00	0.860	1.00	50.00	50.00	0.077	0.077	1.00
40	12:36	1.00	0.880	1.00	50.00	50.00	0.194	0.194	1.00
41	12:48	1.00	0.894	1.00	50.00	50.00	0.216	0.216	1.00
42	12:53	1.00	0.900	1.00	50.00	50.00	0.894	0.894	1.00
43	13:24	1.00	0.936	1.00	50.00	50.00	0.215	0.215	1.00
44	14:01	1.00	0.979	1.00	50.00	50.00	0.908	0.908	1.00
45	13:54	1.00	0.971	1.00	50.00	50.00	1.270	1.270	1.00
46	14:31	1.00	1.014	1.00	80.00	80.00	0.048	0.048	1.00
47	14:23	1.00	1.005	1.00	50.00	50.00	0.961	0.961	1.00
48	14:43	1.00	1.028	1.00	50.00	50.00	0.025	0.025	1.00
49	15:27	1.00	1.079	1.00	80.00	80.00	0.037	0.037	1.00
50	14:48	1.00	1.034	1.00	50.00	50.00	1.261	1.261	1.00

Quantitation Report File: STD623

Data: STD623.TI

06/23/88 10:56:00

Sample: STD MIX 50NG (6/20/88)

Conds.: GC5

Formula:

Instrument: 1050

Weight: 50.000

Submitted by:

Analyst: MGB

Acct. No.:

AMOUNT=AREA \* REF AMNT/(REF AREA \* RESP FACT)  
 Resp. fac. from Library Entry

No	Name
51	35B 2,4-DINITROTOLUENE (SV#53)
52	36B 2,6-DINITROTOLUENE (SV#54)
53	70B DIETHYL PHTHALATE (SV#55)
54	40B 4-CHLOROPHENYLPHENYL ETHER (SV#56)
55	80B FLUORENE (SV#57)
56	12H 4-NITROANILINE (SV#58)
57	60A 2-METHYL-4,6-DINITROPHENOL (SV#59)
58	62B N-NITROSODIPHENYLAMINE (SV#60)
59	41B 4-BROMOPHENYLPHENYL ETHER (SV#61)
60	9B HEXACHLOROBENZENE (SV#62)
61	64A PENTACHLOROPHENOL (SV#63)
62	81B PHENANTHRENE (SV#64)
63	78B ANTHRACENE (SV#65)
64	68B DI-N-BUTYL PHTHALATE (SV#66)
65	39B FLUORANTHENE (SV#67)
66	84B PYRENE (SV#69)
67	67B BUTYL BENZYL PHTHALATE (SV#70)
68	72B BENZO(A)ANTHRACENE (SV#72)
69	66B BIS(2-ETHYLHEXYL)PHTHALATE (SV#73)
70	76B CHRYSENE (SV#74)
71	69B DI-N-OCTYL PHTHALATE (SV#75)
72	74B BENZO(B)FLUORANTHENE (SV#76)
73	74B BENZO(K)FLUORANTHENE (SV#77)
74	73B BENZO(A)PYRENE (SV#78)
75	83B INDENO(1,2,3-CD)PYRENE (SV#79)
76	82B DIBENZO(A,H)ANTHRACENE (SV#80)
77	79B BENZO(G,H,I)PERYLENE (SV#81)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	XTot
51	89	848	14:08	3	0.987	A BB	13792.	50.000 NG/UL	1.18
52	165	904	15:04	3	1.052	A BB	30653.	50.000 NG/UL	1.18
53	149	950	15:50	3	1.106	A BB	156057.	50.000 NG/UL	1.18
54	204	948	15:48	3	1.104	A BB	63555.	50.000 NG/UL	1.18
55	166	940	15:40	3	1.094	A BB	144157.	50.000 NG/UL	1.18
56	138	964	16:04	3	1.122	A BV	2669.	80.000 NG/UL	1.89
57	198	964	16:04	4	0.893	A BB	7959.	50.000 NG/UL	1.18
58	169	970	16:10	4	0.899	A BV	71792.	50.000 NG/UL	1.18
59	248	1020	17:00	4	0.945	A BB	33191.	50.000 NG/UL	1.18
60	284	1034	17:14	4	0.958	A BB	44879.	50.000 NG/UL	1.18
61	266	1069	17:49	4	0.991	A BB	15499.	50.000 NG/UL	1.18
62	178	1082	18:02	4	1.003	A BV	204880.	50.000 NG/UL	1.18
63	178	1088	18:08	4	1.008	A VB	168231.	50.000 NG/UL	1.18
64	149	1199	19:59	4	1.111	A BB	210194.	50.000 NG/UL	1.18
65	202	1261	21:01	4	1.169	A BB	178681.	50.000 NG/UL	1.18
66	202	1292	21:32	5	0.873	A VB	161768.	50.000 NG/UL	1.18

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
67	149	1421	23:41	5	0.960	A BB	69782.	50.000 NG/UL	1.18
68	228	1478	24:38	5	0.999	A BV	114167.	50.000 NG/UL	1.18
69	149	1520	25:20	5	1.027	A BB	103221.	50.000 NG/UL	1.18
70	228	1483	24:43	5	1.002	A VB	98151.	50.000 NG/UL	1.18
71	149	1609	26:49	6	0.955	A VV	143835.	50.000 NG/UL	1.18
72	252	1636	27:16	6	0.971	A VB	80624.	50.000 NG/UL	1.18
73	252	1636	27:16	6	0.971	A VB	80624.	50.000 NG/UL	1.18
74	252	1674	27:54	6	0.994	A BB	69671.	50.000 NG/UL	1.18
75	276	1863	31:03	6	1.106	A BB	58987.	50.000 NG/UL	1.18
76	278	1872	31:12	6	1.112	A BB	49821.	50.000 NG/UL	1.18
77	276	1914	31:54	6	1.137	A BB	48958.	50.000 NG/UL	1.18

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac.	R. Fac(L)	Ratio
51	14:08	1.00	0.987	1.00	50.00	50.00	0.092	0.092	1.00
52	15:04	1.00	1.052	1.00	50.00	50.00	0.206	0.206	1.00
53	15:50	1.00	1.106	1.00	50.00	50.00	1.046	1.046	1.00
54	15:48	1.00	1.104	1.00	50.00	50.00	0.426	0.426	1.00
55	15:40	1.00	1.094	1.00	50.00	50.00	0.967	0.967	1.00
56	16:04	1.00	1.122	1.00	80.00	80.00	0.011	0.011	1.00
57	16:04	1.00	0.893	1.00	50.00	50.00	0.040	0.040	1.00
58	16:10	1.00	0.899	1.00	50.00	50.00	0.360	0.360	1.00
59	17:00	1.00	0.945	1.00	50.00	50.00	0.166	0.166	1.00
60	17:14	1.00	0.958	1.00	50.00	50.00	0.225	0.225	1.00
61	17:49	1.00	0.991	1.00	50.00	50.00	0.078	0.078	1.00
62	18:02	1.00	1.003	1.00	50.00	50.00	1.027	1.027	1.00
63	18:08	1.00	1.008	1.00	50.00	50.00	0.843	0.843	1.00
64	19:59	1.00	1.111	1.00	50.00	50.00	1.054	1.054	1.00
65	21:01	1.00	1.169	1.00	50.00	50.00	0.896	0.896	1.00
66	21:32	1.00	0.873	1.00	50.00	50.00	1.558	1.558	1.00
67	23:41	1.00	0.960	1.00	50.00	50.00	0.672	0.672	1.00
68	24:38	1.00	0.999	1.00	50.00	50.00	1.100	1.100	1.00
69	25:20	1.00	1.027	1.00	50.00	50.00	0.994	0.994	1.00
70	24:43	1.00	1.002	1.00	50.00	50.00	0.946	0.946	1.00
71	26:49	1.00	0.955	1.00	50.00	50.00	1.987	1.987	1.00
72	27:16	1.00	0.971	1.00	50.00	50.00	1.114	1.114	1.00
73	27:16	1.00	0.971	1.00	50.00	50.00	1.114	1.114	1.00
74	27:54	1.00	0.994	1.00	50.00	50.00	0.962	0.962	1.00
75	31:03	1.00	1.106	1.00	50.00	50.00	0.815	0.815	1.00
76	31:12	1.00	1.112	1.00	50.00	50.00	0.688	0.688	1.00
77	31:54	1.00	1.137	1.00	50.00	50.00	0.676	0.676	1.00



GAS CHROMATOGRAPHY - RESULTS

ATI I.D. : 80609601

TEST : ORGANOCHLORINE PESTICIDES AND PCB'S (EPA 608)

CLIENT : MONTGOMERY & ASSOCIATES  
PROJECT # : 661D  
PROJECT NAME : HASSAYAMPA  
CLIENT I.D. : 014425  
SAMPLE MATRIX : AQUEOUS

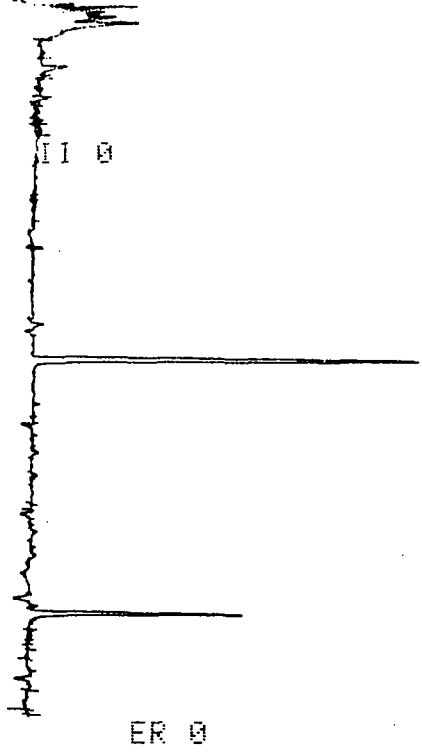
DATE SAMPLED : 06/14/88  
DATE RECEIVED : 06/17/88  
DATE EXTRACTED : 6/20/88  
DATE ANALYZED : 07/07/88  
UNITS : UG/L  
DILUTION FACTOR : 1

COMPOUNDS	RESULTS
ALDRIN	<0.05
ALPHA BHC	<0.05
BETA BHC	<0.05
GAMMA BHC (LINDANE)	<0.05
DELTA BHC	<0.05
CHLORDANE	<0.5
4,4'-DDD	<0.1
4,4'-DDE	<0.1
4,4'-DDT	<0.1
DIELDRIN	<0.1
ENDOSULFAN I	<0.05
ENDOSULFAN II	<0.1
ENDOSULFAN SULFATE	<0.1
ENDRIN	<0.1
ENDRIN ALDEHYDE	<0.1
HEPTACHLOR	<0.05
HEPTACHLOR EPOXIDE	<0.05
METHOXYCHLOR	<0.5
TOXAPHENE	<1.0
AROCLOR 1016	<0.5
AROCLOR 1221	<0.5
AROCLOR 1232	<0.5
AROCLOR 1242	<0.5
AROCLOR 1248	<0.5
AROCLOR 1254	<1.0
AROCLOR 1260	<1.0

SURROGATE PERCENT RECOVERIES

ISODRIN % 90 ✓





BETA PROPHET

mw-1UB

806096-1

037

608/8080

07-07-88 19:57:51

CH= "A" PS= 1.

FILE 2. METHOD 5. RUN 47 INDEX 37

NAME	CONC	RT	AREA	BC	RF
G BHC	0.002	6.68	1128	03	674460.
ALDRIN	0.074	7.94	2906	02	38860.
HEPT	0.004	8.45	1801	03	503140.
ENDO-I	0.003	9.83	1347	03	442140.
DIELD/DDE	6.077	10.75	47700	01	7850.
METHOXYCHL	8.434	15.31	1535	03	182.
DDT	0.006	15.85	1647	03	250730.
END KETO	0.003	17.08	1014	02	304090.
9	0.	17.16	1280	02	
10	0.	17.17	1512	02	
11	0.	17.34	22592	02	
12	0.	17.46	1282	02	
13	0.	17.55	2279	02	
14	0.	17.62	2493	02	
METHOXYCHL	0.023	17.89	1076	02	47025.
16	0.	18.03	1428	02	
17	0.	18.06	1247	02	
18	0.	18.19	1499	02	
19	0.	18.3	2711	03	
20	0.	19.14	2140	02	
21	0.	19.2	3031	02	
22	0.	19.33	2797	02	
23	0.	19.5	5288	02	
24	0.	19.72	7399	02	
5	0.	19.83	1598	03	

47700  
Clean  
90%

TOTALS 14.626 120730

CHANNEL A INJECT 07-07-88 20:26:52



35 0. 19.37 47 02  
 0. 19.46 154 03  
 TOTALS 0. 32258

INHEL A INJECT 06/30/88 15:20:11  
 AZ 1

6/20 608MS  
 806086-2  
 MW-1UB  
 MW-3UB

1	0.00			
2	0.00			
3	0.00			
4	0.00			
5	0.00			
6	0.00			
7	0.00			
8	0.00			
9	0.00			
10	0.00			
11	0.00			
12	0.00			
13	0.00			
14	0.00			
15	0.00			
16	0.00			
17	0.00			
18	0.00			
19	0.00			
20	0.00			
21	0.00			
22	0.00			
23	0.00			
24	0.00			
25	0.00			

18.67  
 ER 0

608/8088 06/30/88 15:20:11 CH="A" PS= 1.

FILE 2. METHOD 5. RUN 32 INDEX 1

NAME	UG/ML	RT	AREA	BC	RF
1	0.	3.82	401	01	
2	0.	3.96	180	01	
3	0.	4.29	110	01	
4	0.	4.59	188	02	
5	0.	4.76	233	03	
6	0.	5.02	261	02	
7	0.	5.04	265	03	
8	0.	5.66	439	01	
9	0.	5.88	215	01	
10	0.	6.25	57	02	
11	0.	6.37	461	02	
12	0.	6.8	71525	02	
13	0.	7.12	1007	02	
14	0.	7.32	1211	02	
15	0.	7.48	271	02	
16	0.	7.61	508	03	
17	0.	7.82	321	02	
3	0.	7.93	111	02	
19	0.	8.06	141	03	
20	0.	8.22	202	02	
21	0.	8.34	365	03	
22	0.	8.74	472	02	
23	0.	8.94	60412	02	
24	0.	9.19	329	02	
25	0.	0.00	0	02	

$\frac{1.68}{2.0} = 84\%$   
 Gamma BHC

$\frac{1.85}{2.0} = 93\%$

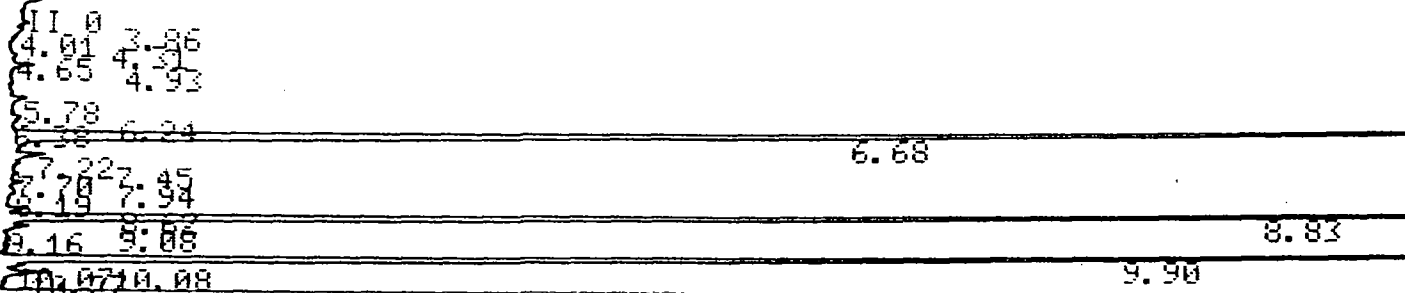
046

22	0.	8.74	472 02
23	0.	8.94	68412 02
24	0.	9.19	329 02
25	0.	9.29	64 03
26	0.	9.42	312 02
27	0.	9.53	58 03
28	0.	9.73	159 02
29	0.	9.82	431 02
30	0.	9.9	216 02
31	0.	10.	56749 02
32	0.	10.19	803 02
33	0.	10.36	1460 02
34	0.	10.56	311 02
35	0.	10.9	48868 08
36	0.	11.3	5 05
37	0.	11.74	780 02
38	0.	12.06	1018 03
39	0.	12.27	319 02
40	0.	12.44	240 02
41	0.	12.55	539 02
42	0.	12.72	344 02
43	0.	12.86	203 02
44	0.	12.94	137 02
45	0.	13.14	1969 02
46	0.	13.3	51664 08
47	0.	13.68	788 06
48	0.	13.97	43508 02
49	0.	14.23	258 02
50	0.	14.31	356 02
51	0.	14.38	225 02
52	0.	14.69	2531 02
53	0.	14.78	1023 02
54	0.	14.94	4334 02
55	0.	15.1	374 02
56	0.	15.17	181 02
57	0.	15.27	424 02
58	0.	15.56	221 02
59	0.	15.7	728 02
60	0.	15.88	40822 02
61	0.	16.34	383 02
62	0.	16.65	537 02
63	0.	16.8	516 02
64	0.	16.99	622 02
65	0.	17.16	7255 02
66	0.	17.33	18762 03
67	0.	18.67	205 01

TOTALS 0. 430387

CHANNEL A INJECT 06/30/88 15:50:10

AZ 1



$\frac{185}{20} = 9.25$

$\frac{1.65}{20} = 8.25\%$

109%

ok used last curve check rather original curve pt  
 $\frac{1.39}{20} = 6.95\%$   
 $\frac{2.02}{20} = 10.1\%$   
 $\frac{1.64}{20} = 8.2\%$

$\frac{3.36}{20} = 16.8\%$   
 $\frac{2.69}{20} = 13.45\%$   
 see above comment

PZ 1

11.0	3.86	
4.01	4.01	
4.65	4.93	
5.78	6.24	
6.38	6.68	
7.22	7.45	
7.7	7.94	
8.19	8.83	
9.08	9.90	
10.07	10.80	
11.34	11.66	
12.46	12.62	
13.58	13.22	
14.70	14.85	
15.64	15.81	
16.26	17.09	
17.50	17.26	
18.40	18.35	

ER 0

6/20

60% MGS

806086-2

MW-1UB  
MW-3UB

608/8080

06/30/88 15:50:10

CH= "A" PS= 1.

FILE 2. METHOD 5. RUN 33 INDEX 1

NAME	UG/ML	RT	AREA	BC	RF
1	0.	3.86	218	02	
2	0.	4.01	307	03	
3	0.	4.65	313	02	
4	0.	4.93	615	03	
5	0.	5.78	524	01	
6	0.	6.24	340	02	
7	0.	6.38	10	03	
8	0.	6.68	68280	01	$= \frac{1.60}{2.0} = 80\%$
9	0.	7.22	976	02	
10	0.	7.45	146	03	
11	0.	7.7	81	01	
12	0.	7.94	202	01	
13	0.	8.19	210	01	
14	0.	8.62	554	02	
15	0.	8.83	59311	02	$= \frac{1.81}{2.0} = 91\%$
16	0.	9.08	540	02	
17	0.	9.16	6	03	
18	0.	9.9	54305	02	$= \frac{1.58}{2.0} = 79\%$
19	0.	10.07	233	02	
20	0.	10.08	312	02	
21	0.	10.27	1358	03	
22	0.	10.8	48199	01	$107\%$
23	0.	11.34	50	01	
24	0.	11.66	156	01	
25	0.	11.96	692	01	
26	0.	12.46	341	01	
27	0.	12.62	102	02	
28	0.	12.64	85	03	
29	0.	12.78	622	01	
30	0.	13.11	190	02	
31	0.	13.22	46818	03	$= \frac{1.26}{2.0} = 63\%$

see comment  
last year  
no

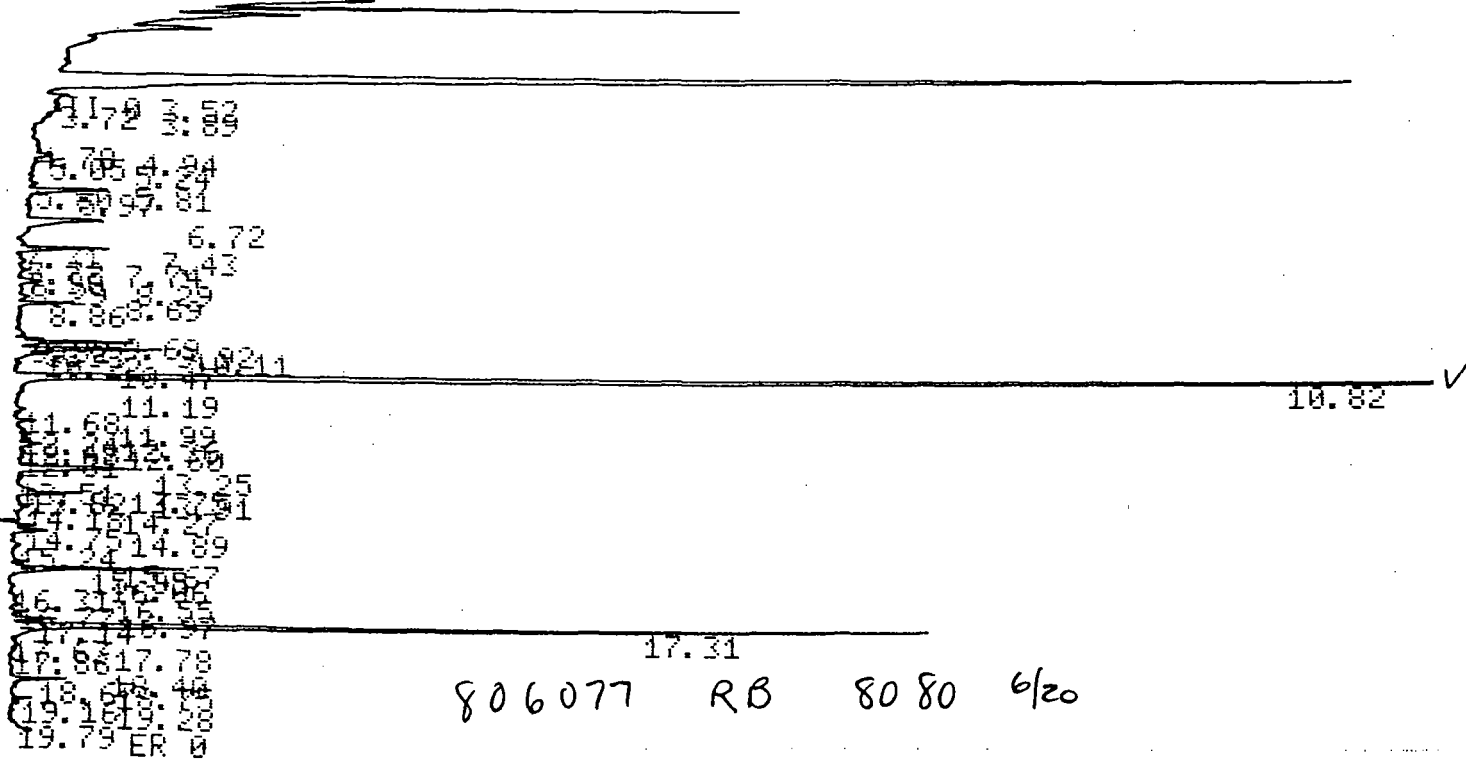
048

26	0.	11.26	341	01
27	0.	12.46	102	02
28	0.	12.62	85	03
29	0.	12.78	622	01
30	0.	13.11	190	02
31	0.	13.22	46818	03
32	0.	13.59	376	01
33	0.	13.88	40253	02
34	0.	14.12	156	02
35	0.	14.22	360	02
36	0.	14.62	1908	02
37	0.	14.7	370	02
38	0.	14.85	5887	03
39	0.	15.3	75	01
40	0.	15.64	311	01
41	0.	15.81	37372	01
42	0.	16.26	108	01
43	0.	16.58	148	02
44	0.	16.74	322	03
45	0.	16.92	153	02
46	0.	17.09	8713	02
47	0.	17.26	19317	09
48	0.	17.81	44	01
49	0.	18.35	34	02
50	0.	18.4	105	03
51	0.	18.63	233	01
TOTALS	0.		402341	

$\frac{1.26}{2.0} = 63\%$   
 $\frac{2.42}{2.0} = 121\%$   
 $\frac{1.51}{2.0} = 76\%$   
 $\frac{3.88}{2.0} = 194\%$   
 $\frac{2.47}{2.0} = 124\%$

see comment  
last year

CHANNEL A INJECT 06/30/88 16:20:05  
 AZ 1





ACCESSION: 806096

QUALITY CONTROL DATA

CLIENT: MONTGOMERY & ASSOCIATES  
DATE(S) RECEIVED: 6/17/88

METHOD: 608  
DATE ANALYZED: 7/7/88

UNITS: UG/LITER  
ANALYST: CS

REFERENCE SAMPLE: SEPARATE SOURCE 200 ug/l

PARAMETER	FOUND ug/l	% RECOVERY
LINDANE	244	122
ENDRIN	182	91
DDT	154	77

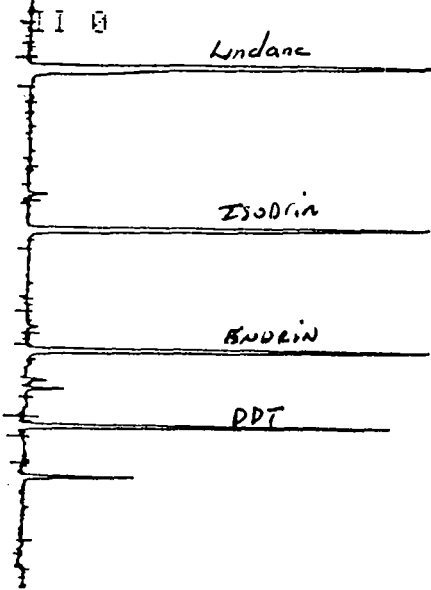
*Lab control std  
check std  
20% window*

NOTES: NA = NOT APPLICABLE

PROJECT MANAGER: *M. Barry*

DATE: 6/17/88

02 1



0.2 ppm  
QC 38-1  
LCS

MW-1UB  
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032

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07-07-88 17:26:47

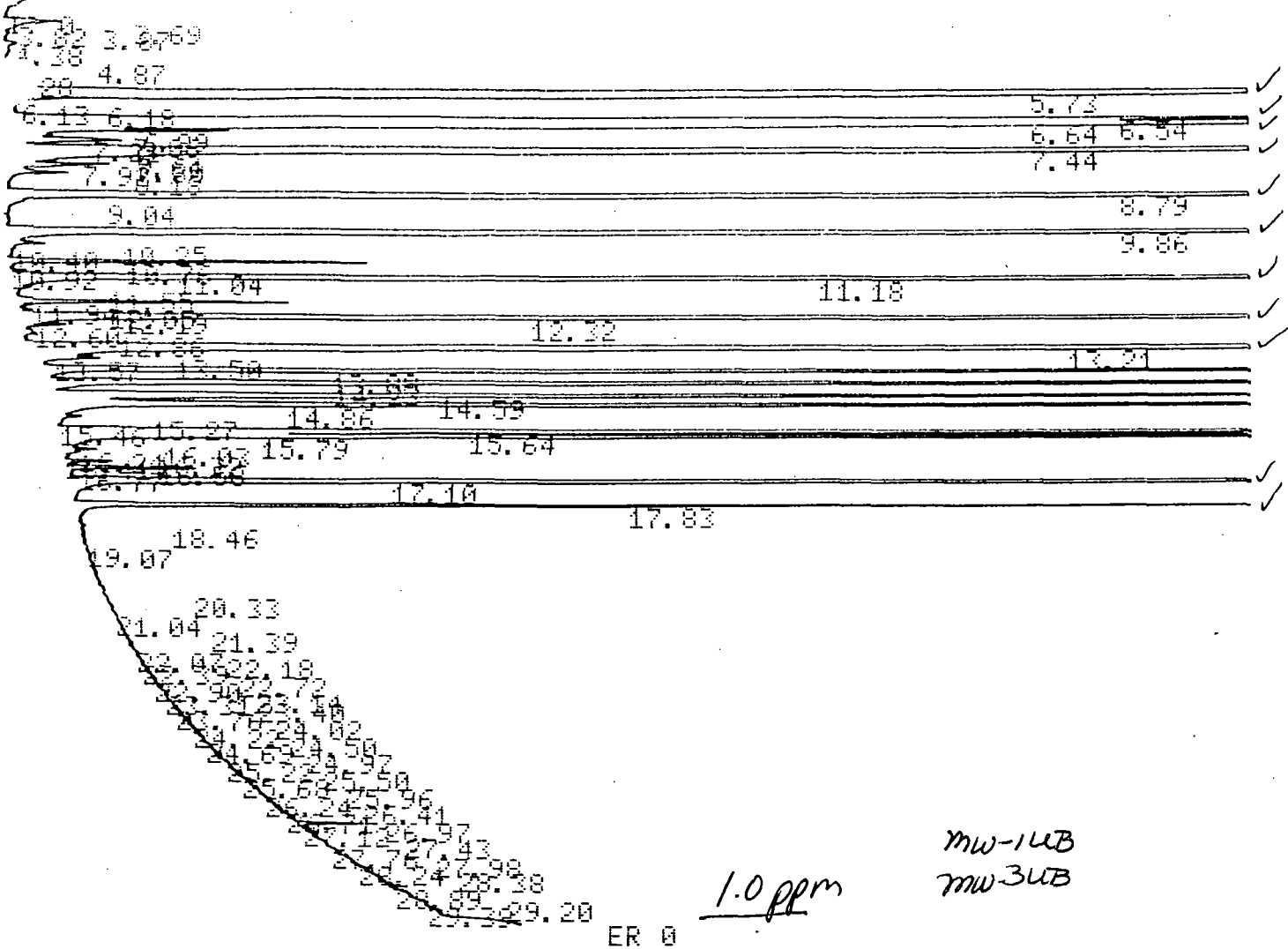
CH= "A" PS= 1.

FILE 2. METHOD 5. RUN 42 INDEX 32

I	E	CONC ppm	RT	AREA	BC	RF
1		0.	5.43	1149	02	
A	BHC	0.002	5.65	1597	02	831030.
3		0.	5.82	1020	03	
B	BHC	0.244	6.52	65969	02	270820. ✓
G	BHC	0.017	6.62	11582	03	674460.
6		0.	8.36	1007	02	
7		0.	8.5	1304	02	
8		0.	8.66	1445	02	
	HEPT	0.004	8.71	2044	02	503140.
10		0.	9.46	1619	03	
	ENDO-I	0.003	9.78	1432	03	442140.
	ALDRIN	0.247	10.15	1249	02	5050.
13		0.	10.27	1200	02	
14		0.	10.45	1119	02	
15		0.	10.7	59214	02	
	DIELD/DDE	0.132	10.91	1034	02	7850.
17		0.	11.08	2115	02	
	HEPT EPOX	0.003	11.15	1037	02	371060.
	ENDRIN	0.	11.17	1029	03	
	DDE	0.005	13.24	1507	02	288130.
	ENDRIN	0.182	13.86	49903	02	273570. ✓
	ENDO II	0.005	14.18	1215	03	298910.
23		0.	14.86	1520	02	
	END KETO	1.563	14.86	1751	03	1120.
	METHOXYCHL	14.753	15.25	2685	02	182.
	DDT	0.154	15.82	38643	03	250730. ✓
27		0.	16.76	1298	02	
28		0.	16.81	1067	02	
29		0.	16.94	1201	02	
	END KETO	0.032	17.13	9841	03	304090.
	METHOXYCHL	0.032	18.02	1525	02	17305.

001-1-803  
REMOVED





003

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06/29/88 19:32:08

CH= "A" PS= 1.

FILE 2. METHOD 5. RUN 3 INDEX 1

NAME	UGKML	RT	AREA	BC	RF
1	0.	3.69	2214	02	
2	0.	3.82	330	02	
3	0.	3.87	382	03	
4	0.	4.38	358	01	
5	0.	4.87	171	01	
6	0.	5.28	52	01	
7	0.	5.73	123470	02	A BHC
8	0.	6.13	295	02	
9	0.	6.18	851	02	
10	0.	6.54	49521	02	B BHC
11	0.	6.64	111025	02	C BHC
12	0.	6.89	7075	02	
13	0.	7.06	1270	02	
14	0.	7.21	5862	02	
15	0.	7.44	100069	02	D BHC
16	0.	7.64	5577	02	
17	0.	7.8	1060	02	
18	0.	7.92	3900	02	
19	0.	8.18	1992	03	
20	0.	8.79	85399	02	Heptachlor
21	0.	9.04	602	03	

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0.	8.18	1992	03
0.	8.79	85399	02
0.	9.04	602	03
0.	9.86	81243	02
0.	10.25	1195	02
0.	10.4	138	03
0.	10.76	8538	02
0.	10.92	65	02
0.	11.04	146	02
0.	11.18	77444	08
0.	11.55	158	05
0.	11.94	5999	06
0.	12.05	248	06
0.	12.19	113	06
0.	12.32	71765	02
0.	12.6	1492	02
0.	12.86	665	02
0.	13.21	94969	02
0.	13.5	1483	02
0.	13.57	2201	02
0.	13.88	60241	02
0.	14.23	63770	02
0.	14.59	54212	02
0.	14.86	62401	08
0.	15.27	375	05
0.	15.46	5	05
0.	15.64	60262	02
0.	15.79	57268	09
0.	16.03	11	05
0.	16.24	523	06
0.	16.32	184	06
0.	16.41	71	06
0.	16.58	1095	06
0.	16.77	3246	06
0.	17.1	62241	03
0.	17.83	29338	01
0.	18.46	70	01
0.	19.07	47	01
0.	20.33	792	02
0.	21.04	632	02
0.	21.39	1834	02
0.	22.07	665	02
0.	22.18	485	02
0.	22.39	291	02
0.	22.72	345	02
0.	22.9	296	02
0.	23.14	201	02
0.	23.31	167	02
0.	23.4	108	02
0.	23.76	174	02
0.	24.02	216	02
0.	24.22	274	02
0.	24.5	239	02
0.	24.69	263	02
0.	24.97	271	02
0.	25.22	212	02
0.	25.5	171	02
0.	25.68	170	02
0.	25.96	186	02
0.	26.24	149	02
0.	26.41	93	02
0.	26.71	109	02
0.	26.97	140	02
0.	27.12	1314	02

Heptachlor

Aldrin

Heptachlor Epoxide

Endosulfan I

Endrin  
Endo II

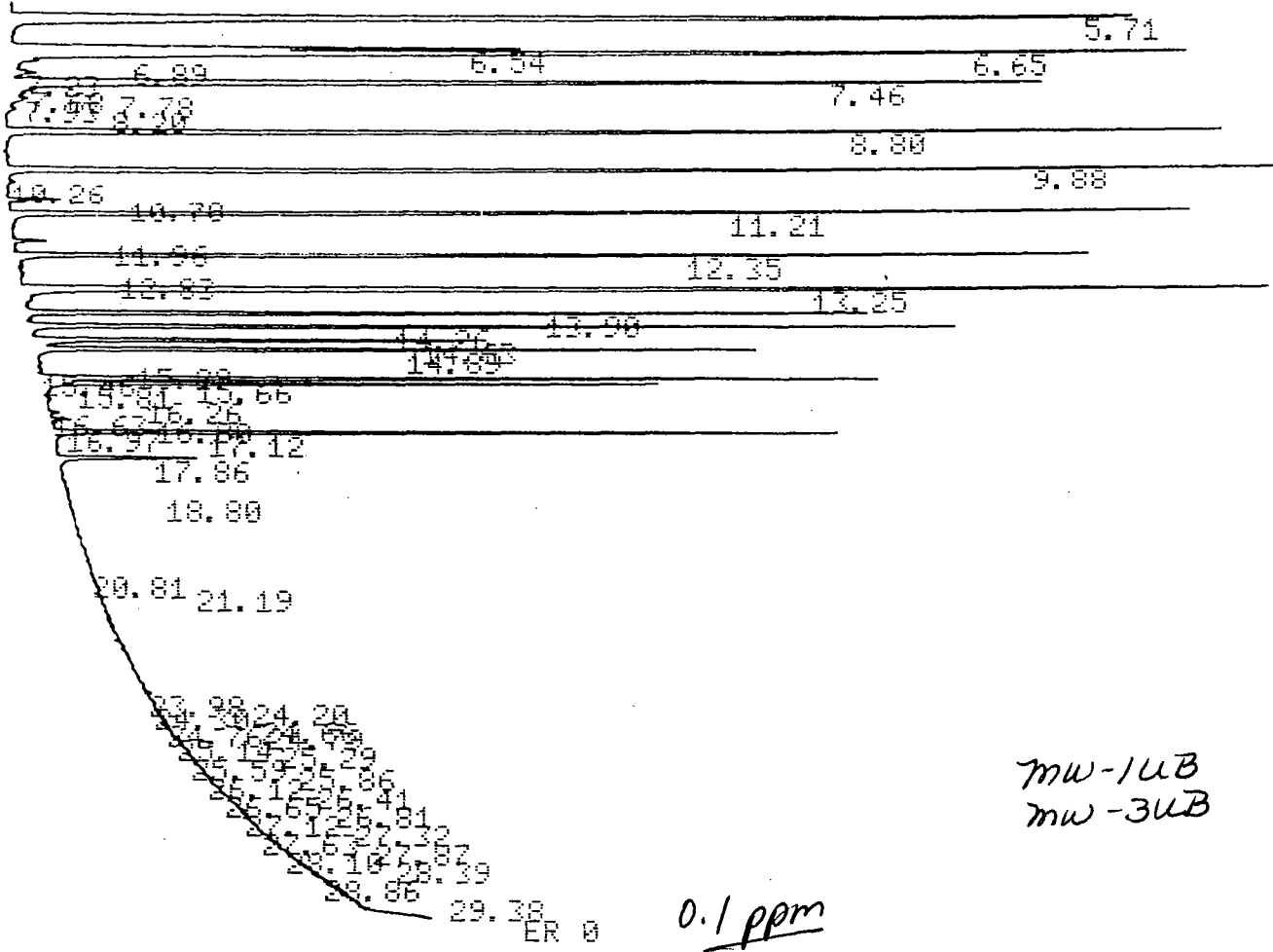
DDT  
Endo Ad

Endo 504

DDT

End Ket  
Methoxychlor

11 0 3.67



MW-1UB  
mw-3UB

608/8080

06/29/88 20:16:28

CH= "A" PS= 1.

FILE 2. METHOD 5. RUN 4 INDEX 1

NAME	UGKML	RT	AREA	BC	RF
1	0.	3.67	394	01	
2	0.	5.71	45989	01	
3	0.	6.54	12409	02	✓
4	0.	6.65	42692	02	✓
5	0.	6.89	1117	02	
6	0.	7.23	956	02	
7	0.	7.46	35173	02	✓
8	0.	7.68	662	02	
9	0.	7.78	408	02	
10	0.	7.93	623	03	
11	0.	8.2	131	01	
12	0.	8.8	32734	01	✓
13	0.	9.88	34362	01	✓
14	0.	10.26	111	01	
15	0.	10.78	1020	01	
16	0.	11.21	27941	01	✓
17	0.	11.96	677	01	
18	0.	12.35	24812	01	✓
19	0.	12.83	95	01	
20	0.	13.25	37222	01	✓

005

13	0.	10.26	111	01
14	0.	10.26	111	01
15	0.	10.78	1020	01
16	0.	11.21	27941	01 ✓
17	0.	11.96	677	01
18	0.	12.35	24812	01 ✓
19	0.	12.83	95	01
20	0.	13.25	37222	01 ✓
21	0.	13.9	16614	01 ✓
22	0.	14.26	17317	01 ✓
23	0.	14.63	10561	02 ✓
24	0.	14.89	15459	03 ✓
25	0.	15.29	79	02
26	0.	15.46	116	02
27	0.	15.66	17522	02 ✓
28	0.	15.81	12140	03 ✓
29	0.	16.26	88	01
30	0.	16.63	164	01
31	0.	16.8	343	01
32	0.	16.97	72	02
33	0.	17.12	17246	03 ✓
34	0.	17.86	3134	01 ✓
35	0.	18.8	354	01
36	0.	20.81	2026	02
37	0.	21.19	17407	08
38	0.	23.98	5436	06
39	0.	24.2	204	06
40	0.	24.3	1401	02
41	0.	24.66	1049	02
42	0.	24.76	427	02
43	0.	24.79	449	02
44	0.	25.14	723	02
45	0.	25.29	592	02
46	0.	25.59	400	02
47	0.	25.86	274	02
48	0.	26.12	250	02
49	0.	26.41	164	02
50	0.	26.65	101	02
51	0.	26.81	156	02
52	0.	27.12	299	02
53	0.	27.32	104	02
54	0.	27.63	78	02
55	0.	27.87	63	02
56	0.	28.1	113	02
57	0.	28.39	155	02
58	0.	28.86	343	02
59	0.	29.38	337	03

TOTALS 0. 443288

CHANNEL A INJECT 06/29/88 21:00:55

AZ 1

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5.71

6.50 6.61

7.80 7.78 7.41

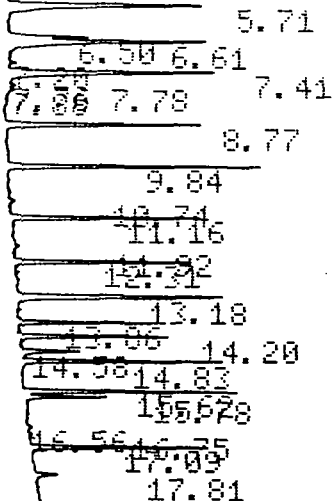
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ER 0

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MW-3UB

608/8080

06/29/88 21:00:55

CH= "A" PS= 1.

FILE 2. METHOD 5. RUN 5 INDEX 1

NAME	UGKML	RT	AREA	BC	RF
1	0.	5.71	6358	01	✓
2	0.	6.5	1802	02	✓
3	0.	6.61	7113	03	✓
4	0.	7.2	103	01	✓
5	0.	7.41	5904	01	✓
6	0.	7.76	62	02	
7	0.	7.78	27	03	
8	0.	7.88	67	01	
9	0.	8.77	4410	01	✓
10	0.	9.84	5008	01	✓
11	0.	10.74	116	01	✓
12	0.	11.16	4079	01	✓
13	0.	11.92	176	01	✓
14	0.	12.31	3568	01	✓
15	0.	13.18	5904	01	✓
16	0.	13.86	2312	01	✓
17	0.	14.2	2853	01	✓
18	0.	14.58	1458	02	✓
19	0.	14.83	3799	03	✓
20	0.				

007

10.74  
 11.16  
 11.92  
 13.18  
 13.86 14.20  
 14.83  
 15.62  
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 17.09  
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ER 0 0.01 ppm

608/8080

06/29/88 21:00:55

CH= "A" PS= 1.

FILE 2. METHOD 5. RUN 5 INDEX 1

NAME	UGKML	RT	AREA	BC	RF
1	0.	5.71	6358	01 ✓	
2	0.	6.5	1802	02 ✓	
3	0.	6.61	7113	03 ✓	
4	0.	7.2	103	01 ✓	
5	0.	7.41	5904	01 ✓	
6	0.	7.76	62	02	
7	0.	7.78	27	03	
8	0.	7.88	67	01	
9	0.	8.77	4410	01 ✓	
10	0.	9.84	5008	01 ✓	
11	0.	10.74	116	01 ✓	
12	0.	11.16	4079	01 ✓	
13	0.	11.92	176	01 ✓	
14	0.	12.31	3568	01 ✓	
15	0.	13.18	5904	01 ✓	
16	0.	13.86	2312	01 ✓	
17	0.	14.2	2853	01 ✓	
18	0.	14.58	1458	02 ✓	
19	0.	14.83	3799	03 ✓	
20	0.	15.62	3845	02 ✓	
21	0.	15.78	1417	03 ✓	
22	0.	16.56	101	01	
23	0.	16.75	60	01	
24	0.	17.09	3263	01 ✓	
25	0.	17.81	423	01 ✓	
TOTALS	0.		64228		

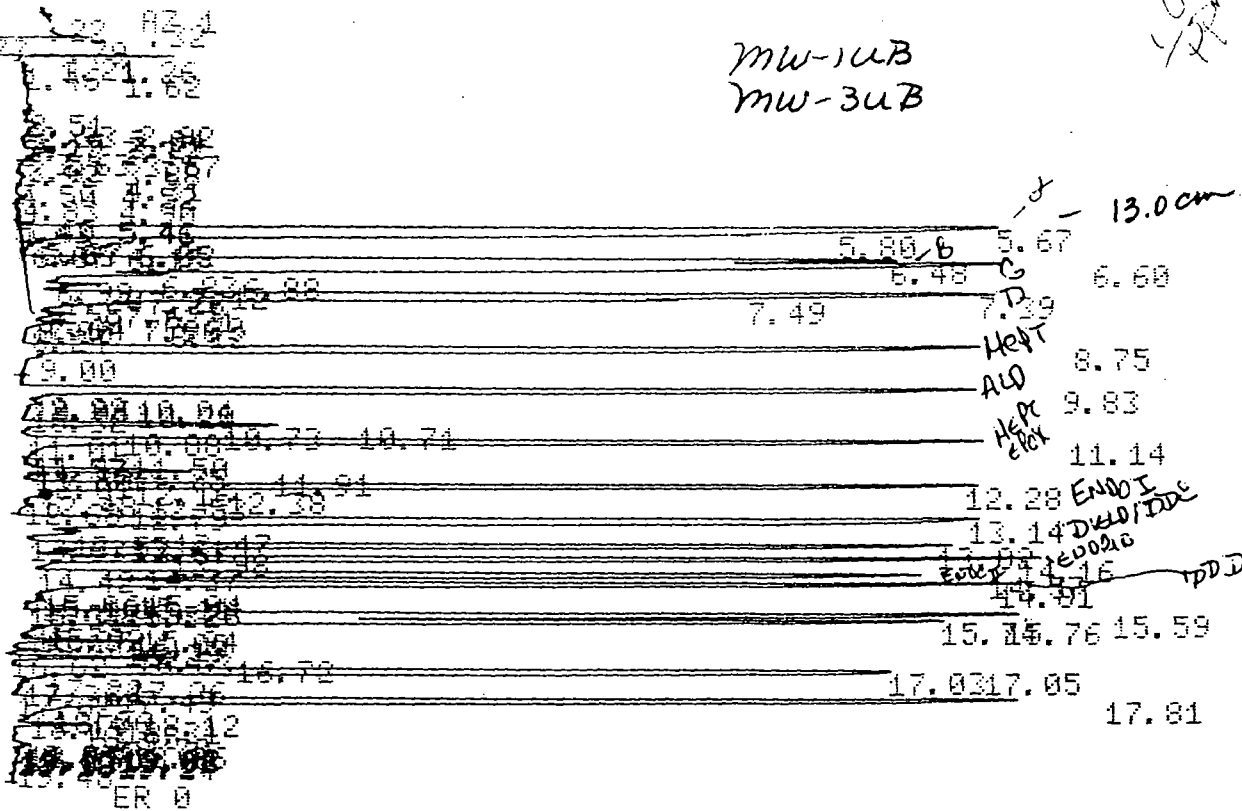
CHANNEL A INJECT 06/29/88 21:45:21

AZ 1

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MW-1UB  
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608/8080

08-05-88 16:49:55

CH= "0" 00

FILE 2. METHOD 5. RUN 15 INDEX 5

806096

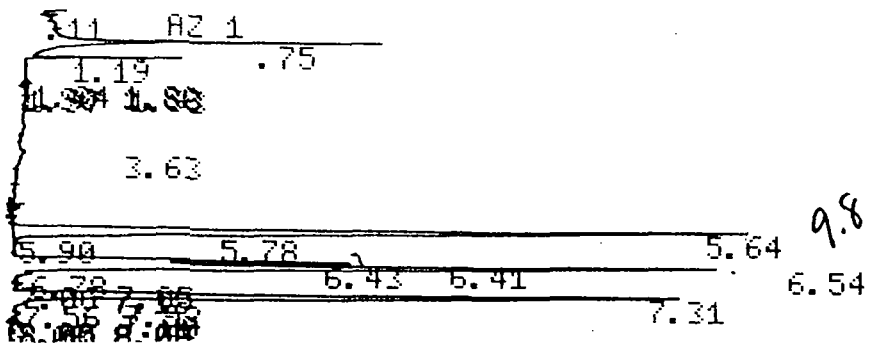
NAME	CONC	RT	AREA	BC	RF
1	0.	0.73	5917	01	
2	0.	1.21	12616	02	
3	0.	1.26	3644	02	
4	0.	1.46	8178	03	
5	0.	2.93	951	02	
6	0.	3.04	727	03	
7	0.	3.63	1298	02	
8	0.	3.67	1354	03	
G-BHC	0.008	4.31	982	03	116470.
A-BHC	0.126	5.67	104635	02	831030.
11	0.	5.8	40741	02	
12	0.	5.97	529	03	
B-BHC	0.237	6.48	64071	02	270820.
D-BHC	0.189	6.6	127799	02	672450.
15	0.	6.83	5419	02	
16	0.	6.88	5341	02	
17	0.	6.99	1653	02	
18	0.	7.12	3582	02	
19	0.	7.2	1646	02	
I-BHC	0.155	7.39	93666	02	607440.
21	0.	7.49	24279	02	
LDRIN	0.148	7.62	5763	02	39360.
23	0.	7.71	1350	02	
24	0.	7.78	589	02	
25	0.	7.89	2789	02	
26	0.	8.12	2844	03	
EPT	0.191	8.75	96047	02	503140.
EPT-EPOX	0.109	9.	616	03	5620.
29 ALDRO	0.	9.83	87329	02	

Lindane 1129, 0.4ppm  
Endrin 106  
DDT 806096  
LCS same  
as 805060

25	0.	7.89	2789	02	
26	0.	8.12	2844	03	
HEPT	0.191	8.75	96047	02	503140.
HEPT-EPOX	0.109	9.	616	03	5620.
29 <i>ALD210</i>	0.	9.83	87329	02	
400-I	0.002	9.99	794	02	44 <del>7</del> 140.
ALDRIN	0.343	10.2	1733	02	5 <del>7</del> 50.
32	0.	10.32	1124	02	
33	0.	10.71	7882	02	
DIELD/DDE	0.769	10.73	6036	09	<del>7</del> 50.
HEPT EPOX	0.214	11.14	79399	02	371060.
36	0.	11.5	729	02	
ENDRIN	0.	11.57	7 <del>5</del>	02	
ENDOII	0.994	11.91	9834	02	9 <del>7</del> 00.
39	0.	12.01	534	03	
ENDO I	0.199	12.28	72068	02	362160.
DDD	0.	12.38	4123	02	
ENDALD	0.551	12.53	1440	03	2 <del>7</del> 10.
DIELDRIN	0.335	13.14	113109	02	337540.
44	0.	13.47	2639	02	
DDT	1.198	13.53	2743	02	2 <del>7</del> 90.
ENDRIN	0.255	13.82	69626	02	273570.
47	0.	13.98	3138	02	
ENDO II	0.252	14.16	75324	02	298910.
49	0.	14.37	831	02	
DDD	0.31	14.57	75463	02	243540.
END ALI	0.258	14.81	75981	02	294180.
ENDOKETO	0.564	15.11	632	02	1 <del>7</del> 20.
53	0.	15.18	941	02	
METHOXYCHL	4.412	15.26	803	03	1 <del>7</del> 2.
ENDO S04	0.225	15.59	79253	02	351940.
56	0.	15.74	30275	02	
DDT	0.147	15.76	36750	03	250730. <sup>3</sup>
58	0.	16.29	4551	03	
59	0.	16.53	1178	02	
60	0.	16.72	7160	02	
61	0.	17.03	37703	02	
END KETO	0.153	17.05	46569	02	304090.
63	0.	17.22	1331	02	
64	0.	17.26	1006	02	
65	0.	17.36	1479	02	
66	0.	17.49	1021	02	
METHOXYCHL	1.989	17.81	93511	02	47025.
68	0.	18.06	2072	02	
69	0.	18.12	1145	02	
70	0.	18.19	1567	02	
71	0.	18.31	747	02	
72	0.	18.45	3982	09	

TOTALS 14.333 1665337

CHANNEL A INJECT 08-05-88 17:19:02





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<del>1.34</del>	<del>1.88</del>
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<del>5.78</del>	<del>6.43</del>
<del>6.41</del>	<del>6.41</del>
<del>7.31</del>	<del>7.31</del>
<del>8.05</del>	<del>8.05</del>
<del>9.09</del>	<del>9.06</del>
<del>9.92</del>	<del>9.92</del>
<del>10.75</del>	<del>10.75</del>
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<del>12.40</del>	<del>12.40</del>
<del>13.79</del>	<del>13.79</del>
<del>14.23</del>	<del>14.23</del>
<del>14.76</del>	<del>14.76</del>
<del>15.57</del>	<del>15.57</del>
<del>16.86</del>	<del>16.86</del>
<del>17.03</del>	<del>17.03</del>
<del>18.87</del>	<del>18.87</del>
<del>18.91</del>	<del>18.91</del>
<del>19.77</del>	<del>19.77</del>

MW-1UB  
MW-3UB

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608/8080 08-05-88 17:19:02 CH= "A" PS= 1.

FILE 2. METHOD 5. RUN 16 INDEX 6

NAME	CONC	RT	AREA	BC	RF
1	0.	0.75	11576	01	
2	0.	1.19	2145	01	
A BHC	0.065	5.64	52909	02	831030.
4	0.	5.78	3382	03	
5	0.	6.41	8720	02	
B BHC	0.035	6.43	9452	02	270820.
C BHC	0.029	6.54	53320	02	674460.
8	0.	6.78	1625	03	
D BHC	0.077	7.31	46807	02	607440.
ALDRIN	0.014	7.56	551	03	30660.
11	0.	7.8	612	03	
HEPT	0.087	8.68	43788	09	503140.
ENDO-IND	0.093	9.77	41045	03	442140.
DIELD/DDE	0.18	10.66	1417	03	7250.
HEPT EPOX	0.099	11.09	36510	01	371060.
ENDO II	0.101	11.84	1003	01	9700.
ENDO I	0.098	12.21	35619	02	362160.
ENDALD	0.207	12.82	540	03	2610.
19	0.	13.09	18690	02	
DIELDORIN/DDE	0.132	13.16	44478	03	337540.
ENDRIN	0.099	13.79	27125	08	273570.
ENDO II	0.101	14.13	30090	03	298910.
20	0.099	14.52	24223	02	243540.
END ALD	0.102	14.76	29774	03	294180.
ENDO S04	0.101	15.57	35789	02	351940.
DDT	0.102	15.74	25590	03	250730.
27	0.	16.26	558	03	
28	0.	16.66	1050	02	
END KETO	0.101	17.03	30615	03	304090.

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18172

CHANNEL A INJECT 08-05-88 17:49:08

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~~4.44~~ 4.76 ✓ 1.7  
~~5.79~~ 5.74  
~~6.64~~ 6.64  
~~7.33~~  
~~8.75~~ 8.67  
~~9.73~~  
~~11.04~~ 11.04  
~~11.02~~ 12.18  
~~13.07~~  
~~13.73~~ 13.73  
~~14.49~~ 14.09  
~~14.73~~  
~~15.45~~ 15.68  
~~16.97~~ 16.97  
~~17.79~~  
~~19.77~~ 17.72

MW-1UB  
MW-3UB

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08-05-88 17:49:08

CH= "A" PS= 1.

E 2. METHOD 5. RUN 17 INDEX 7

NAME	CONC	RT	AREA	BC	RF
1	0.	0.73	9679	01	
2	0.	1.2	8780	02	
3	0.	1.53	10546	03	
A BHC	0.009	5.64	7718	03	831030.
B BHC	0.009	6.42	2240	02	270830.
G BHC	0.01	6.56	7347	02	674460.
7	0.	6.63	1041	03	
D BHC	0.012	7.33	7310	01	607440.
HEPT	0.013	8.67	6089	03	503140.
ENDO-I	0.014	9.73	6593	01	442140.
HEPT EPOX	0.016	11.04	5678	03	371060.
ENDO I	0.014	12.18	4969	01	362160.
DIELDRIN	0.029	13.07	9830	01	337540.
ENDRIN	0.014	13.73	3924	01	273570.
ENDO II	0.016	14.09	4702	01	298910.
DDD	0.013	14.49	3291	01	243540.
END ALD	0.021	14.73	6170	01	294180.
METHOXYCHL	36.995	15.49	6733	02	182.
DDT	0.013	15.68	3296	03	250730.
END KETO	0.022	16.97	6790	03	304090.
METHOXYCHL	0.256	17.72	12044	01	47025.
TOTALS	37.476		134770		

CHANNEL A INJECT 08-05-88 18:19:07

AZ 1

17.79

AZ 1

1.95 2.01  
2.93 3.26

.44 7.45

1.11

1.11

2.72 12.32

14.10 5.34

1.01

1.52

1.46 18.42

1.90 ER 0

0/8080

08-05-88 15:18:46

CH= "A"

FILE 2. METHOD 5. RUN 12 INDEX 2

NAME	CONC	RT	AREA	BC	RF
1	0.	0.39	17447	02	
2	0.	0.71	16334	03	
3	0.	1.21	4489	02	
4	0.	1.31	2052	03	
G BHC	0.109	6.59	73583	01	674460.
ENDO-I	0.004	9.83	1576	03	442140.
DIELD/DDE	6.729	10.75	52828	09	-7850.
DDE	0.006	13.25	1588	03	288130.
ENDRIN	0.147	13.87	40195	01	273570.
ENDO II	0.002	14.21	595	03	298910.
DDD	0.007	14.61	1697	01	243540.
END ALD	0.02	14.83	5948	03	294180.
ENDO S04	0.003	15.63	1155	01	351940.
DDT	0.152	15.82	37986	09	250730.
15	0.	16.75	606	03	
END KETO	0.04	17.11	12097	01	304090.
METHOXYCHL	0.044	17.86	2084	08	47025.
8	0.	18.03	1550	07	
TOTALS	7.263		273810		

*Handwritten:* 0.2

*Handwritten:* MW-1UB  
MW-3UB

*Handwritten:* used later  
73583 x 0.1  
77954 = 0.09  
Lindane 73583 x 0.1 ppm = 7358.3

*Handwritten:* 1500 DRIN 0.1 x 0.09 = 52,928  
52828 / 53694 = 0.1

*Handwritten:* DDE + DDD = 3285  
Dp total 41271 = 8% Breakdown

AZ 1