

Data: 45234.TI

12/01/87 20:30:00

Sample: A711040-06

Conds.: 8' X 2MM ID 1%SP1000 36(2.5) TO 220 @8C/MIN

Formula:

Instrument: 5100

Weight: 0.000

Submitted by: WESTON

Analyst: JAP

Acct. No.: P&T

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

Resp. fac. from average of whole .RL

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL STANDARD)
2	CI10 1,4-DIFLUOROBENZENE (INTERNAL STANDARD)
3	CI20 CHLOROBENZENE-D5 (INTERNAL STANDARD)
4	CS15 DICHLOROETHANE-D4 (SURROGATE)
5	CS05 TOLUENE-D8 (SURROGATE)
6	CS10 BROMOFLUOROBENZENE (SURROGATE)
7	CO20 VINYL CHLORIDE (CCC)
8	CO45 1,1-DICHLOROETHENE (CCC)
9	CO60 CHLOROFORM (CCC)
10	C140 1,2-DICHLOROPROPANE (CCC)
11	C230 TOLUENE (CCC)
12	C240 ETHYL BENZENE (CCC)
13	CO10 CHLOROMETHANE (SPCC)
14	CO50 1,1-DICHLOROETHANE (SPCC)
15	C180 TRIBROMOMETHANE (BROMOFORM)
16	C225 1,1,2,2-TETRACHLOROETHANE (SPCC)
17	C235 CHLOROBENZENE (SPCC)
18	C121 DICHLOROFLUOROMETHANE
19	CO25 CHLOROETHANE
20	CO29 ETHYLENE OXIDE
21	CO15 BROMOMETHANE
22	C122 TRICHLOROFLUOROMETHANE
23	C181 ACETONITRILE
24	CO16 IODOMETHANE
25	CO40 CARBON DISULFIDE
26	CO30 METHYLENE CHLORIDE
27	C183 ACRYLONITRILE
28	CO55 TRANS-1,2-DICHLOROETHENE
29	C182 ACRROLEIN
30	C110 METHYL ETHYL KETONE (MEK)
31	C179 PROPANENITRILE
32	CO35 ACETONE
33	C115 1,1,1-TRICHLOROETHANE —
34	C120 CARBON TETRACHLORIDE
35	C165 BENZENE
36	CO65 1,2-DICHLOROETHANE
37	C150 TRICHLOROETHYLENE —
38	CO76 METHYL METHACRYLATE
39	CO31 DIBROMOMETHANE
40	C130 BROMODICHLOROMETHANE
41	C125 VINYL ACETATE
42	C143 CIS-1,3-DICHLOROPROPENE
43	C145 TRANS-1,3-DICHLOROPROPENE
44	CO77 ETHYL METHACRYLATE
45	C220 TETRACHLOROETHYLENE
46	C205 4-METHYL-2-PENTANONE (MIBK)
47	C155 CHLORODIBROMOMETHANE

AR102862

No Name
 48 C066 1,2-DIBROMOETHANE
 49 C224 1,1,1,2-TETRACHLOROETHANE
 50 C250 M-XYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	130	264	8:48	1	1.000	A BB	46007.	50.000 PPB	2.19
2	114	557	18:34	2	1.000	A BB	170945.	50.000 PPB	2.19
3	82	698	23:16	3	1.000	A BB	95631.	50.000 PPB	2.19
4	65	343	11:26	1	1.299	A BB	76633.	53.814 PPB	2.36
5	98	662	22:04	3	0.948	A BB	91973.	45.500 PPB	1.99
6	95	808	26:56	3	1.158	A BB	109053.	46.709 PPB	2.05
7	62	87	2:54	1	0.330	A BB	2649.	3.014 PPB	0.13
8	61	250	8:20	1	0.947	A BB	1015.	0.440 PPB	0.02
9	83	326	10:52	1	1.235	A BB	1223.	0.487 PPB	0.02
10	NOT FOUND								
11	91	668	22:16	3	0.957	A BB	2746.	0.659 PPB	0.03
12	91	752	25:04	3	1.077	A BB	1793.	0.299 PPB	0.01
13	50	38	1:16	1	0.144	A BB	218.	0.178 PPB	0.01
14	63	286	9:32	1	1.083	A BB	30515.	11.027 PPB ✓	0.48
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	85	87	2:54	1	0.330	A BB	248.	0.413 PPB	0.02
19	64	114	3:48	1	0.432	A BB	1176.	2.225 PPB	0.10
20	44	65	2:10	1	0.246	A BB	137216.	1865.300 PPB	81.74
21	NOT FOUND								
22	101	228	7:36	1	0.864	A BB	3033.	2.096 PPB	0.09
23	NOT FOUND								
24	NOT FOUND								
25	76	212	7:04	1	0.803	A BB	817.	0.319 PPB	0.01
26	84	172	5:44	1	0.652	A BB	25653.	22.167 PPB	0.97
27	NOT FOUND								
28	61	309	10:18	1	1.170	A BB	16718.	6.769 PPB ✓	0.30
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	43	202	6:44	1	0.765	A*VV	2181.	5.297 PPB	0.23
33	97	380	12:40	2	0.682	A BB	64104.	37.671 PPB	1.65 *
34	117	380	12:40	2	0.682	A BB	8453.	5.330 PPB	0.23
35	78	481	16:02	2	0.864	A BB	3202.	0.703 PPB	0.03
36	NOT FOUND								
37	130	470	15:40	2	0.844	A BB	11535.	5.693 PPB ✓	0.25 *
38	69	558	18:36	2	1.002	A BB	6255.	5.769 PPB	0.25
39	93	352	11:44	2	0.632	A BB	713.	0.521 PPB	0.02
40	NOT FOUND								
41	43	194	6:28	2	0.348	A BV	1876.	8.091 PPB	0.35
42	NOT FOUND								
43	NOT FOUND								
44	69	663	22:06	3	0.950	A BV	1472.	0.703 PPB	0.03
45	166	632	21:04	3	0.905	A BB	1124.	0.339 PPB	0.01
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								
49	NOT FOUND								
50	91	752	25:04	3	1.077	A BB	1793.	0.299 PPB	0.01

23108
3

AR102863

117

Response list; Input file: 46, 48 ; Output file: 46, 48

Sample: C230 TOLUENE (CCC)
Component (46: 49): C120 CHLOROBENZENE-D5 (INTERNAL STANDARD)
Integration mass: 91 Quant. Mass (Ref. Comp.): 82

No.	Date	Time	Area	Area(R)	Amnt (PPB)	Amnt(R) (PPB)	Resp
1	12/ 8/88	4:06	888407.	110708.	200.000	50.000	2.006
2	12/ 8/88	3:23	397227.	93491.	100.000	50.000	2.124
3	12/ 8/88	2:39	186061.	84419.	50.000	50.000	2.204
4	12/ 8/88	1:55	73729.	33992.	20.000	50.000	2.195
5	12/ 8/88	1:11	36711.	88868.	10.000	50.000	2.065

AR102864

CTOU

Response list; Input file: 46, 49 ; Output file: 46, 49

Sample ID: CI20 CHLOROBENZENE-D5 (INTERNAL STANDARD)
Sample Name (46: 49): CI20 CHLOROBENZENE-D5 (INTERNAL STANDARD)
Quantitation mass: 82 Quant. Mass (Ref. Comp.): 82

No.	Date	Time	Area	Area(R)	Amnt (PPB)	Amnt(R) (PPB)	Resp
1	12/ 8/88	4:06	110708.	110708.	50.000	50.000	1.000
2	12/ 8/88	3:23	93491.	93491.	50.000	50.000	1.000
3	12/ 8/88	2:39	84419.	84419.	50.000	50.000	1.000
4	12/ 8/88	1:55	83992.	83992.	50.000	50.000	1.000
5	12/ 8/88	1:11	88868.	88868.	50.000	50.000	1.000

AR102865

C-101

Response list: Input file: 46, 50 ; Output file: 46, 50

Compound: C235 CHLOROBENZENE (SPCC)

Reference Comp (46: 49): C120 CHLOROBENZENE-D5 (INTERNAL STANDARD)

Reference Mass: 112 Quant. Mass (Ref. Comp.): 82

No.	Date	Time	Area	Area(R)	Amnt (PPB)	Amnt(R) (PPB)	Resp
1	12/ 8/88	4:06	707984.	110708.	200.000	50.000	1.599
2	12/ 8/88	3:23	297106.	93491.	100.000	50.000	1.589
3	12/ 8/88	2:39	142328.	84419.	50.000	50.000	1.686
4	12/ 8/88	1:55	59048.	83992.	20.000	50.000	1.758
5	12/ 8/88	1:11	29783.	88868.	10.000	50.000	1.676

AR102866

L-102

ponse list; Input file: 46, 51 ; Output file: 46, 51

Sample: C240 ETHYL BENZENE (CCO)
Reference (46: 49): C120 CHLOROBENZENE-D5 (INTERNAL STANDARD)
Molecular weight: 91 Quant. Mass (Ref. Comp.): 82

Date	Time	Area	Area(R)	Amnt (PPB)	Amnt(R) (PPB)	Resp
12/ 8/88	4:06	1414780.	110708.	200.000	50.000	3.195
12/ 8/88	3:23	604318.	73491.	100.000	50.000	3.232
12/ 8/88	2:39	287054.	84419.	50.000	50.000	3.400
12/ 8/88	1:55	116838.	83792.	20.000	50.000	3.478
12/ 8/88	1:11	58794.	88868.	10.000	50.000	3.308

ARI02867

E-180

response list; Input file: 46, 52 ; Output file: 46, 52

Compound: C144 1,2-DIBROMO-3-CHLOROPROPANE
Comp (46: 49): C120 CHLOROBENZENE-D5 (INTERNAL STANDARD)
Molecular mass: 157 Quant. Mass (Ref. Comp.): 82

No.	Date	Time	Area	Area(R)	Amnt (PPB)	Amnt(R) (PPB)	Resp
1	12/ 8/88	4:06	107925.	110708.	200.000	50.000	0.244
2	12/ 8/88	3:23	43928.	93491.	100.000	50.000	0.235
3	12/ 8/88	2:39	26321.	84419.	50.000	50.000	0.312
4	12/ 8/88	1:55	8578.	83992.	20.000	50.000	0.255
5	12/ 8/88	1:11	5270.	88868.	10.000	50.000	0.297

AR102868

V184

response list; Input file: 46, 54 . Output file: 46, 54

Found: C510 BROMOFLUOROBENZENE (SURROGATE)
Comp (46: 49): C120 CHLOROBENZENE-D5 (INTERNAL STANDARD)
Quantitation mass: 95 Quant. Mass (Ref. Comp.): 82

No.	Date	Time	Area	Area(R)	Amnt (PPB)	Amnt(R) (PPB)	Resp
1	12/ 8/88	4:06	147619	110708.	50.000	50.000	1.333
2	12/ 8/88	3:23	124252.	93491.	50.000	50.000	1.329
3	12/ 8/88	2:39	121999.	84419.	50.000	50.000	1.445
4	12/ 8/88	1:55	117409.	83992.	50.000	50.000	1.398
5	12/ 8/88	1:11	137632.	88868.	50.000	50.000	1.549

AR102869

5100

Response list: Input file 46, 55 ; Output file: 46, 55

Compound: C245 STYRENE

Ref. Comp (46, 49) C120 CHLOROBENZENE-D5 (INTERNAL STANDARD)
Molecular weight 104 Quant. Mass (Ref. Comp.): 82

No	Date	Time	Area	Area(R)	Amnt (PPB)	Amnt(R) (PPB)	Resp
1	12/ 8/88	4:06	533869	110708.	200.000	50.000	1.431
2	12/ 8/88	3:23	271389.	93491.	100.000	50.000	1.451
3	12/ 8/88	2:39	129237.	24419.	50.000	50.000	1.519
4	12/ 8/88	1:55	52726.	83992.	20.000	50.000	1.569
5	12/ 8/88	1:11	26622.	88868.	10.000	50.000	1.498

AR102870

100

Response list; Input file: 46, 56, Output file: 46, 56

Compound: C250 M-XYLENE

Comp (46: 49): C120 CHLOROBENZENE-D5 (INTERNAL STANDARD)
antitation mass: 91 Quant. Mass (Ref. Comp.): 82

No.	Date	Time	Area	Area(R)	Amnt (PPB)	Amnt(R) (PPB)	Resp
1	12/ 8/88	4:06	1414780.	110708.	200.000	50.000	3.195
2	12/ 8/88	3:23	604318.	93491.	100.000	50.000	3.232
3	12/ 8/88	2:39	287054.	84419.	50.000	50.000	3.400
4	12/ 8/88	1:55	116838.	83992.	20.000	50.000	3.478
5	12/ 8/88	1:11	58794.	88868.	10.000	50.000	3.308

ARI02871

2101

Response list: Input File: 46, 57 ; Output File: 46, 57

Compound: C250 O&P-XYLENE
R Comp (46: 49): C120 CHLOROBENZENE-D5 (INTERNAL STANDARD)
Quantitation mass: 91 Quant. Mass (Ref. Comp.): 82

No.	Date	Time	Area	Area(R)	Amnt (PPB)	Amnt(R) (PPB)	Resp
1	12/ 8/88	4:06	2299790.	110708.	400.000	50.000	2.597
2	12/ 8/88	3:23	1050940.	93491.	200.000	50.000	2.810
3	12/ 8/88	2:39	499320.	84419.	100.000	50.000	2.957
4	12/ 8/88	1:55	204305.	83992.	40.000	50.000	3.041
5	12/ 8/88	1:11	79218.	88868.	20.000	50.000	2.791

AR102872

V188

response list; Input file: 46, 58 ; Output file: 46, 58

Compound: C181 ACETONITRILE
Ref. Comp (46: 14): C101 BROMOCHLOROMETHANE (INTERNAL STANDARD)
Molecular weight: 41 Quant. Mass (Ref. Comp.): 130

No.	Date	Time	Area	Area(R)	Amnt (PPB)	Amnt(R) (PPB)	Resp
1	12/ 8/88	4:06	405160.	47930.	200.000	50.000	2.113
2	12/ 8/88	3:23	206501.	47345.	100.000	50.000	2.181
3	12/ 8/88	2:39	95550.	46935.	50.000	50.000	2.036
4	12/ 8/88	1:55	38764.	43936.	20.000	50.000	2.206
5	12/ 8/88	1:11	19375.	50398.	10.000	50.000	1.922

1184

Response list: Input file: 46, 59 ; Output file: 46, 59

Compound: C125 VINYL ACETATE
Ref Comp (46: 40): CI10 1,4-DIFLUOROBENZENE (INTERNAL STANDARD)
Molecular mass: 43 Quant. Mass (Ref. Comp.): 114

No.	Date	Time	Area	Area(R)	Amnt (PPB)	Amnt(R) (PPB)	Resp
1	12/ 8/88	4:06	44151.	177878.	200.000	50.000	0.062
2	12/ 8/88	3:23	21516.	148795.	100.000	50.000	0.072
3	12/ 8/88	2:39	14849.	146902.	50.000	50.000	0.101
4	12/ 8/88	1:55	5173.	139771.	20.000	50.000	0.093
5	12/ 8/88	1:11	4894.	150509.	10.000	50.000	0.163

AR102874

CI10

Response list; Input file: 46, 60 ; Output file: 46, 60

Compound: C161 1,2,3-TRICHLOROPROPANE

Ref. Comp (46: 40): CI10 1,4-DIFLUOROBENZENE (INTERNAL STANDARD)

Calibration mass: 75 Quant. Mass (Ref. Comp.): 114

No.	Date	Time	Area	Area(R)	Amnt (PPB)	Amnt(R) (PPB)	Resp
1	12/ 8/88	4:06	319091.	177879.	200.000	50.000	0.448
2	12/ 8/88	3:23	124088.	148795.	100.000	50.000	0.417
3	12/ 8/88	2:39	69482.	146902.	50.000	50.000	0.473
4	12/ 8/88	1:55	24774.	139771.	20.000	50.000	0.443
5	12/ 8/88	1:11	13089.	150509.	10.000	50.000	0.435

AR102875

Response list: Input file: 46, 51, Output file: 46, 61

Compound: 0210 2-HEXANONE

Ref. Comp (46: 14): C101 BROMOCHLOROMETHANE (INTERNAL STANDARD)

Dilution mass: 43 Quant. Mass (Ref. Comp.): 130

No.	Date	Time	Area	Area(R)	Amnt (PPB)	Amnt(R) (PPB)	Resp
1	12/ 8/88	4:06	167688.	47930.	200.000	50.000	0.875
2	12/ 8/88	3:23	56216.	47345.	100.000	50.000	0.594
3	12/ 8/88	2:39	32971.	46935.	50.000	50.000	0.702
4	12/ 8/88	1:55	10063.	43936.	20.000	50.000	0.573
5	12/ 8/88	1:11	7149.	50398.	10.000	50.000	0.709

AR102876

E-172

response list, Input file: 46, 62, Output file: 46, 62

Compound: C182 ACROLEIN

Comp (46: 14): C101 3BROMOCHLOROMETHANE (INTERNAL STANDARD)

Titration mass: 56 Quant. Mass (Ref. Comp.): 130

No	Date	Time	Area	Area(R)	Amnt (PPB)	Amnt(R) (PPB)	Resp
1	12/ 8/88	4:06	3807.	47930.	1000.000	50.000	0.010
2	12/ 8/88	3:23	4168.	47345.	500.000	50.000	0.009
3	12/ 8/88	2:39	939	46935	250.000	50.000	0.004
4	12/ 8/88	1:55	656.	43936.	100.000	50.000	0.007

ARI02877

EE-192

response list; Input file: 46, 63 ; Output file: 46, 63

Compound: 0226 TRANS-1,4-DICHLORO-2-BUTENE
Comp (46: 49): 0120 CHLOROBENZENE-D5 (INTERNAL STANDARD)
Titration mass: 75 Quant. Mass (Ref. Comp.): 82

No.	Date	Time	Area	Area(R)	Amnt (PPB)	Amnt(R) (PPB)	Resp
1	12/ 8/88	4:06	104760	110708.	200.000	50.000	0.237
2	12/ 8/88	3:23	33924.	93491.	100.000	50.000	0.181
3	12/ 8/88	2:39	17735	84419.	50.000	50.000	0.210
4	12/ 8/88	1:55	6641.	83992.	20.000	50.000	0.198
5	12/ 8/88	1:11	3062.	88868.	10.000	50.000	0.172

AR102878

0172

Response list; Input file: 46, 64 ; Output file: 46, 64

Compound: C029 ETHYLENE OXIDE
Ref. Comp (46: 14): C101 BROMOCHLOROMETHANE (INTERNAL STANDARD)
Quantitation mass: 44 Quant. Mass (Ref. Comp.): 130

No.	Date	Time	Area	Area(R)	Amnt (PPB)	Amnt(R) (PPB)	Resp
1	12/ 8/87	11:07	21341.	46581.	50.000	50.000	0.458
2	12/ 8/87	12:35	33237.	34878.	200.000	50.000	0.238
3	12/ 8/87	10:14	31054.	78490.	20.000	50.000	0.989
4	12/ 8/87	11:51	13206.	38818.	100.000	50.000	0.235
5	12/ 9/87	10:55	18592.	45660.	200.000	50.000	0.102
6	12/ 9/87	13:24	8329.	51770.	50.000	50.000	0.161

AR102879

174

response list; Input file: 46, 65 ; Output file: 46, 65

Sample: C179 PROPANENITRILE

Component (46: 14): C101 BROMOCHLOROMETHANE (INTERNAL STANDARD)
Quantitation mass: 54 Quant. Mass (Ref. Comp.): 130

No.	Date	Time	Area	Area(R)	Amnt (PPB)	Amnt(R) (PPB)	Resp
1	12/ 8/88	4:06	17023.	47930.	200.000	50.000	0.089
2	12/ 8/88	3:23	8116.	47345.	100.000	50.000	0.086

AR102880

170

RADIAN
CORPORATION

DAILY CALIBRATIONS

AR102881

6-171

Quantitation Report File: 45094

Data: 45094.TI

.1/18/87 8:56:00

Sample: ~~PFB-DEMO~~ 200 ppb standard

Conds.: 8' X 2MM ID 1%SP1000 36(2.5) TO 220 @8C/MIN

Formula: Instrument: 5100

Submitted by: UNION CA

Analyst: JAP

Weight: 0.000

Acct. No.: P&T

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

Resp. fac. from average of whole .RL

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL STANDARD)
2	CI10 1,4-DIFLUOROBENZENE (INTERNAL STANDARD)
3	CI20 CHLOROENZENE-D5 (INTERNAL STANDARD)
4	CS15 DICHLOROETHANE-D4 (SURROGATE)
5	CS05 TOLUENE-D8 (SURROGATE)
6	CS10 BROMOFLUOROBENZENE (SURROGATE)
7	CO20 VINYL CHLORIDE (CCC)
8	CO45 1,1-DICHLOROETHENE (CCC)
9	CO60 CHLOROFORM (CCC)
10	C140 1,2-DICHLOROPROPANE (CCC)
11	C230 TOLUENE (CCC)
12	C240 ETHYL BENZENE (CCC)
13	CO10 CHLOROMETHANE (SPCC)
14	CO50 1,1-DICHLOROETHANE (SPCC)
15	C180 TRIBROMOMETHANE (BROMOFORM)
16	C225 1,1,2,2-TETRACHLOROETHANE (SPCC)
17	C235 CHLOROENZENE (SPCC)
18	C121 DICHLOROFLUOROMETHANE
19	CO25 CHLOROETHANE
20	CO29 ETHYLENE OXIDE
21	CO15 BROMOMETHANE
22	C122 TRICHLOROFLUOROMETHANE
23	C181 ACETONITRILE
24	CO16 IODOMETHANE
25	CO40 CARBON DISULFIDE
26	CO30 METHYLENE CHLORIDE
27	C183 ACRYLONITRILE
28	CO55 TRANS-1,2-DICHLOROETHENE
29	C182 ACROLEIN
30	C110 METHYL ETHYL KETONE (MEK)
31	C179 PROPANENITRILE
32	CO35 ACETONE
33	C115 1,1,1-TRICHLOROETHANE
34	C120 CARBON TETRACHLORIDE
35	C165 BENZENE
36	CO65 1,2-DICHLOROETHANE
37	C150 TRICHLOROETHYLENE
38	CO76 METHYL METHACRYLATE
39	CO31 DIBROMOMETHANE
40	C130 BROMODICHLOROMETHANE
1	C125 VINYL ACETATE
42	C143 CIS-1,3-DICHLOROPROPENE
3	C145 TRANS-1,3-DICHLOROPROPENE
44	CO77 ETHYL METHACRYLATE
45	C220 TETRACHLOROETHYLENE
46	C205 4-METHYL-2-PENTANONE (MIBK)
47	C155 CHLORODIBROMOMETHANE

AR102882

No Name
 48 C066 1, 2-DIBROMOETHANE
 49 C224 1, 1, 1, 2-TETRACHLOROETHANE
 50 C250 M-XYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	130	267	8:54	1	1.000	A BB	40588.	50.000 PPB	0.39
2	114	558	18:36	2	1.000	A BV	137985.	50.000 PPB	0.39
3	82	699	23:18	3	1.000	A BB	83486.	50.000 PPB	0.39
4	65	345	11:30	1	1.292	A BB	75543.	60.131 PPB	0.47
5	98	663	22:06	3	0.948	A BB	78545.	44.510 PPB	0.35
6	95	809	26:58	3	1.157	A BB	92877.	45.567 PPB	0.36
7	62	89	2:58	1	0.333	A BB	149894.	193.314 PPB	1.52
8	61	252	8:24	1	0.944	A BB	410536.	201.817 PPB	1.58
9	83	328	10:56	1	1.228	A BB	456806.	206.376 PPB	1.62
10	63	448	14:56	2	0.803	A BB	322390.	188.381 PPB	1.48
11	91	668	22:16	3	0.956	A BB	630163.	173.188 PPB	1.36
12	91	753	25:06	3	1.077	A BB	984287.	187.742 PPB	1.47
13	50	39	1:18	1	0.146	A BB	170559.	158.026 PPB	1.24
14	63	288	9:36	1	1.079	A BB	470440.	192.702 PPB	1.51
15	173	568	18:56	2	1.018	A BB	290786.	272.875 PPB	2.14
16	83	634	21:08	3	0.907	A BB	336452.	236.699 PPB	1.86
17	112	702	23:24	3	1.004	A BB	484684.	185.575 PPB	1.46
18	85	88	2:56	1	0.330	A BB	125780.	237.145 PPB	1.86
19	64	117	3:54	1	0.438	A BB	94785.	203.244 PPB	1.59
20	44	67	2:14	1	0.251	A BB	8808.	135.722 PPB	1.07
21	94	67	2:14	1	0.251	A BB	152798.	228.066 PPB	1.79
22	101	231	7:42	1	0.865	A BB	330987.	259.253 PPB	2.03
23	41	252	8:24	1	0.944	A BB	631693.	209.475 PPB	1.64
24	142	158	5:16	1	0.592	A BB	335022.	213.060 PPB	1.67
25	76	214	7:08	1	0.801	A BB	471526.	208.833 PPB	1.64
26	84	175	5:50	1	0.655	A BB	168000.	164.552 PPB	1.29
27	53	214	7:08	1	0.801	A BV	196281.	778.031 PPB	6.11
28	61	309	10:18	1	1.157	A BB	403243.	185.070 PPB	1.45
29	56	252	8:24	1	0.944	A BB	482.	349.162 PPB	2.74
30	43	320	10:40	1	1.199	A VB	209410.	180.982 PPB	1.42
31	54	246	8:12	1	0.921	A BB	16381.	149.212 PPB	1.17
32	43	195	6:30	1	0.730	A BB	53616.	147.603 PPB	1.16
33	97	382	12:44	2	0.685	A BB	395149.	287.682 PPB	2.26
34	117	393	13:06	2	0.704	A VB	416625.	325.433 PPB	2.55
35	78	484	16:08	2	0.867	A BB	583483.	158.759 PPB	1.25
36	62	348	11:36	1	1.303	A VB	349987.	219.045 PPB	1.72
37	130	472	15:44	2	0.846	A BV	309495.	189.252 PPB	1.49
38	69	558	18:36	2	1.000	A BB	669227.	764.653 PPB	6.00
39	93	354	11:48	2	0.634	A BB	234487.	212.139 PPB	1.66
40	83	472	15:44	2	0.846	A BB	3136.	158.843 PPB	1.25
41	43	195	6:30	2	0.349	A BB	53616.	286.464 PPB	2.25
42	75	456	15:12	2	0.817	A BB	458398.	223.831 PPB	1.76
43	75	493	16:26	2	0.884	A BB	319597.	263.918 PPB	2.07
44	69	666	22:12	3	0.953	A BB	1388210.	759.859 PPB	5.96
45	166	633	21:06	3	0.906	A BB	483381.	166.806 PPB	1.31
46	43	579	19:18	3	0.828	A BB	334121.	157.367 PPB	1.23
47	127	492	16:24	2	0.882	A BB	304219.	263.515 PPB	2.07
48	107	518	17:16	2	0.928	A BB	292520.	213.551 PPB	1.68
49	131	573	19:06	2	1.027	A BB	307763.	249.509 PPB	1.96
50	91	753	25:06	3	1.077	A BB	984287.	187.742 PPB	1.47

AR102883

E-197

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	8:36	1.03	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	18:22	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	23:00	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	11:16	1.02	1.310	0.99	60.13	50.00	1.655	1.377	1.20
5	21:50	1.01	0.949	1.00	44.51	50.00	0.871	0.978	0.89
6	26:38	1.01	1.158	1.00	45.57	50.00	1.144	1.256	0.91
7	2:48	1.06	0.326	1.02	193.31	10.00	16.745	0.866	19.33
8	8:08	1.03	0.946	1.00	201.82	10.00	50.137	2.484	20.18
9	10:40	1.02	1.240	0.99	206.38	10.00	57.733	2.797	20.64
10	14:40	1.02	0.799	1.01	188.38	10.00	12.478	0.662	18.84
11	22:00	1.01	0.957	1.00	173.19	10.00	37.804	2.183	17.32
12	24:50	1.01	1.080	1.00	187.74	10.00	58.983	3.142	18.77
13	1:14	1.05	0.143	1.02	158.03	10.00	22.121	1.400	15.80
14	9:20	1.03	1.085	0.99	192.70	10.00	58.169	3.019	19.27
15	18:44	1.01	1.020	1.00	272.88	10.00	10.788	0.395	27.29
16	20:54	1.01	0.909	1.00	236.70	10.00	24.111	1.019	23.67
17	23:08	1.01	1.006	1.00	185.58	10.00	29.755	1.603	18.56
18	2:46	1.06	0.322	1.02	237.14	10.00	13.662	0.576	23.71
19	3:40	1.06	0.426	1.03	203.24	10.00	10.671	0.525	20.32
20	2:08	1.05	0.242	1.04	135.72	100.00	0.106	0.078	1.36
21	2:06	1.06	0.244	1.03	228.07	10.00	19.119	0.838	22.81
22	7:24	1.04	0.860	1.01	259.25	10.00	37.772	1.457	25.93
23	8:08	1.03	0.946	1.00	209.47	10.00	78.511	3.748	20.95
24	5:00	1.05	0.581	1.02	213.06	10.00	29.296	1.375	21.31
25	6:50	1.04	0.795	1.01	208.83	10.00	52.791	2.528	20.88
26	5:32	1.05	0.643	1.02	164.55	10.00	20.695	1.258	16.46
27	6:48	1.05	0.791	1.01	778.03	50.00	4.220	0.271	15.56
28	10:04	1.02	1.171	0.99	185.07	10.00	46.409	2.508	18.51
29	8:08	1.03	0.946	1.00	349.16	50.00	0.015	0.002	6.98
30	10:26	1.02	1.213	0.99	180.98	10.00	23.018	1.272	18.10
31	7:54	1.04	0.919	1.00	149.21	10.00	2.386	0.160	14.92
32	6:16	1.04	0.729	1.00	147.60	10.00	8.538	0.578	14.76
33	12:28	1.02	0.679	1.01	287.68	10.00	14.855	0.516	28.77
34	12:50	1.02	0.699	1.01	325.43	10.00	14.445	0.444	32.54
35	15:52	1.02	0.864	1.00	158.76	10.00	21.724	1.368	15.88
36	11:20	1.02	1.318	0.99	219.04	10.00	46.765	2.135	21.90
37	15:30	1.02	0.844	1.00	189.25	10.00	10.378	0.548	18.93
38	18:22	1.01	1.000	1.00	764.65	50.00	5.236	0.342	15.29
39	11:34	1.02	0.630	1.01	212.14	10.00	9.478	0.447	21.21
40	15:28	1.02	0.842	1.00	158.84	20.00	0.061	0.008	7.94
41	6:16	1.04	0.341	1.02	286.46	100.00	0.144	0.050	2.86
42	14:58	1.02	0.815	1.00	223.83	10.00	17.084	0.763	22.38
43	16:12	1.01	0.882	1.00	263.92	10.00	11.584	0.439	26.39
44	21:58	1.01	0.955	1.00	759.86	50.00	17.695	1.164	15.20
45	20:52	1.01	0.907	1.00	166.81	10.00	26.798	1.607	16.68
46	19:02	1.01	0.828	1.00	157.37	10.00	21.459	1.364	15.74
47	16:10	1.01	0.880	1.00	263.52	10.00	10.896	0.413	26.35
48	17:00	1.02	0.926	1.00	213.55	10.00	11.013	0.516	21.36
49	18:52	1.01	1.027	1.00	249.51	10.00	11.623	0.466	24.95
50	24:50	1.01	1.080	1.00	187.74	10.00	58.983	3.142	18.77

AR102884

L-200

Quantitation Report File: 45094

Data: 45094.TI

11/18/87 8:56:00

Sample: ~~SP-DEMO~~ 200ppb standard

Conds.: 8' X 2MM ID 1%SP1000 36(2.5) TO 220 @8C/MIN

Formula:

Instrument: 5100

Weight: 0.000

Submitted by: UNION CA

Analyst: JAP

Acct. No.: P&T

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

Resp. fac. from average of whole .RL

No	Name
51	C160 1,1,2-TRICHLOROETHANE
52	C250 D&P-XYLENE
53	C245 STYRENE
54	C161 1,2,3-TRICHLOROPROPANE
55	C210 2-HEXANONE
56	C226 TRANS-1,4-DICHLORO-2-BUTENE
57	C144 1,2-DIBROMO-3-CHLOROPROPANE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	97	494	16:28	2	0.885	A BB	232127.	209.461 PPB	1.64
52	91	862	28:44	3	1.233	A VB	1345020.	359.213 PPB	2.82
53	104	836	27:52	3	1.196	A BB	443226.	182.058 PPB	1.43
54	75	627	20:54	2	1.124	A VB	218488.	181.689 PPB	1.43
55	43	624	20:48	1	2.337	A BV	246239.	153.705 PPB	1.21
56	75	643	21:26	3	0.920	A BB	91317.	193.122 PPB	1.52
57	157	765	25:30	3	1.094	A BB	77131.	229.044 PPB	1.80

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
51	16:14	1.01	0.884	1.00	209.46	10.00	8.875	0.424	20.95
52	28:20	1.01	1.232	1.00	359.21	20.00	41.933	2.335	17.96
53	27:32	1.01	1.197	1.00	182.06	10.00	29.558	1.624	18.21
54	20:38	1.01	1.123	1.00	181.69	10.00	9.067	0.499	18.17
55	20:32	1.01	2.388	0.98	153.71	10.00	36.282	2.361	15.37
56	21:10	1.01	0.920	1.00	193.12	10.00	4.823	0.250	19.31
57	25:14	1.01	1.097	1.00	229.04	10.00	4.286	0.187	22.90

AR102885

E-201

Quantitation Report File: 45171

ta: 45171.TI
1/23/87 10:14:00
Sample: 100 PPB STANDARD
Conds.: 8' X 2MM ID 1%SP1000 36(2.5) TD 220 @8C/MIN
Formula: Instrument: 5100 Weight: 0.000
Submitted by: UNION CA Analyst: JAP Acct. No.: P&T

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from average of whole .RL

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL STANDARD)
2	CI10 1,4-DIFLUOROBENZENE (INTERNAL STANDARD)
3	CI20 CHLOROBENZENE-D5 (INTERNAL STANDARD)
4	CS15 DICHLOROETHANE-D4 (SURROGATE)
5	CS05 TOLUENE-D8 (SURROGATE)
6	CS10 BROMOFLUOROBENZENE (SURROGATE)
7	CO20 VINYL CHLORIDE (CCC)
8	CO45 1,1-DICHLOROETHENE (CCC)
9	CO60 CHLOROFORM (CCC)
10	C140 1,2-DICHLOROPROPANE (CCC)
11	C230 TOLUENE (CCC)
12	C240 ETHYL BENZENE (CCC)
13	CO10 CHLOROMETHANE (SPCC)
14	CO50 1,1-DICHLOROETHANE (SPCC)
	C180 TRIBROMOMETHANE (BROMOFORM)
6	C225 1,1,2,2-TETRACHLOROETHANE (SPCC)
17	C235 CHLOROBENZENE (SPCC)
18	C121 DICHLOROFLUOROMETHANE
19	CO25 CHLOROETHANE
20	CO29 ETHYLENE OXIDE
21	CO15 BROMOMETHANE
22	C122 TRICHLOROFLUOROMETHANE
23	C181 ACETONITRILE
24	CO16 IODOMETHANE
25	CO40 CARBON DISULFIDE
26	CO30 METHYLENE CHLORIDE
27	C183 ACRYLONITRILE
28	CO55 TRANS-1,2-DICHLOROETHENE
29	C182 ACROLEIN
30	C110 METHYL ETHYL KETONE (MEK)
31	C179 PROPANENITRILE
32	CO35 ACETONE
33	C115 1,1,1-TRICHLOROETHANE
34	C120 CARBON TETRACHLORIDE
35	C165 BENZENE
36	CO65 1,2-DICHLOROETHANE
37	C150 TRICHLOROETHYLENE
38	CO76 METHYL METHACRYLATE
39	CO31 DIBROMOMETHANE
	C130 BROMODICHLOROMETHANE
1	C125 VINYL ACETATE
42	C143 CIS-1,3-DICHLOROPROPENE
43	C145 TRANS-1,3-DICHLOROPROPENE
44	CO77 ETHYL METHACRYLATE
45	C220 TETRACHLOROETHYLENE
46	C205 4-METHYL-2-PENTANONE (MIBK)
47	C155 CHLORODIBROMOMETHANE

AR102886

No Name
 8 C066 1,2-DIBROMOETHANE
 49 C224 1,1,1,2-TETRACHLOROETHANE
 50 C250 M-XYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	XTot
1	130	265	8:50	1	1.000	A BB	19917.	50.000 PPB	0.65
2	114	558	18:36	2	1.000	A BB	73565.	50.000 PPB	0.65
3	82	699	23:18	3	1.000	A BB	46614.	50.000 PPB	0.65
4	65	344	11:28	1	1.298	A BB	34997.	56.768 PPB	0.74
5	98	663	22:06	3	0.948	A BB	39021.	39.604 PPB	0.51
6	95	809	26:58	3	1.157	A BB	53977.	47.430 PPB	0.61
7	62	87	2:54	1	0.328	A BB	68609.	180.316 PPB	2.34
8	61	251	8:22	1	0.947	A BB	135408.	135.651 PPB	1.76
9	83	327	10:54	1	1.234	A BB	130954.	120.565 PPB	1.56
10	63	447	14:54	2	0.801	A BB	86754.	95.083 PPB	1.23
11	91	668	22:16	3	0.956	A BB	191718.	94.368 PPB	1.22
12	91	753	25:06	3	1.077	A BV	283836.	96.963 PPB	1.26
13	50	38	1:16	1	0.143	A BV	80135.	151.304 PPB	1.96
14	63	287	9:34	1	1.083	A BB	122679.	102.406 PPB	1.33
15	173	568	18:56	2	1.018	A BB	90008.	158.428 PPB	2.05
16	83	635	21:10	3	0.908	A BB	99296.	125.114 PPB	1.62
17	112	702	23:24	3	1.004	A BB	141636.	97.126 PPB	1.26
18	85	86	2:52	1	0.325	A BB	93169.	357.971 PPB	4.64
19	64	115	3:50	1	0.434	A BB	34247.	149.649 PPB	1.94
20	NOT FOUND								
21	94	66	2:12	1	0.249	A BB	63692.	193.733 PPB	2.51
22	101	230	7:40	1	0.868	A BB	130356.	208.074 PPB	2.70
23	41	251	8:22	1	0.947	A BB	182097.	123.056 PPB	1.60
24	142	156	5:12	1	0.589	A BB	125555.	162.718 PPB	2.11
25	76	213	7:06	1	0.804	A BB	162946.	147.066 PPB	1.91
26	84	173	5:46	1	0.653	A BB	58289.	116.347 PPB	1.51
27	53	212	7:04	1	0.800	A BB	66581.	537.831 PPB	6.97
28	61	308	10:16	1	1.162	A BB	109131.	102.068 PPB	1.32
29	NOT FOUND								
30	43	319	10:38	1	1.204	A BB	61598.	108.487 PPB	1.41
31	54	243	8:06	1	0.917	A BB	4877.	90.527 PPB	1.17
32	43	194	6:28	1	0.732	A BV	15815.	88.723 PPB	1.15
33	97	381	12:42	2	0.683	A BB	115159.	157.257 PPB	2.04
34	117	392	13:04	2	0.703	A VB	123424.	180.833 PPB	2.34
35	78	483	16:06	2	0.866	A BB	178764.	91.233 PPB	1.18
36	62	347	11:34	1	1.309	A BB	97090.	123.830 PPB	1.61
37	130	471	15:42	2	0.844	A BB	83711.	96.013 PPB	1.24
38	69	558	18:36	2	1.000	A BV	221424.	474.543 PPB	6.15
39	93	353	11:46	2	0.633	A BB	65467.	111.092 PPB	1.44
40	83	471	15:42	2	0.844	A BB	1115.	105.924 PPB	1.37
41	43	194	6:28	2	0.348	A BV	15815.	158.489 PPB	2.05
42	75	456	15:12	2	0.817	A BB	123860.	113.441 PPB	1.47
43	75	493	16:26	2	0.884	A VB	84251.	130.498 PPB	1.69
44	69	667	22:14	3	0.954	A BB	513100.	503.010 PPB	6.52
45	166	634	21:08	3	0.907	A BB	138668.	85.703 PPB	1.11
46	43	579	19:18	3	0.828	A BB	88349.	74.526 PPB	0.97
47	127	491	16:22	2	0.880	A BB	89688.	145.719 PPB	1.89
48	107	517	17:14	2	0.927	A BB	82412.	112.849 PPB	1.46
49	131	573	19:06	2	1.027	A BB	90745.	137.992 PPB	1.79
50	91	753	25:06	3	1.077	A BV	283836.	96.963 PPB	1.26

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	8:36	1.03	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	18:22	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	23:00	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	11:16	1.02	1.310	0.99	56.77	50.00	1.563	1.377	1.14
5	21:50	1.01	0.949	1.00	39.60	50.00	0.775	0.978	0.79
6	26:38	1.01	1.158	1.00	47.43	50.00	1.191	1.256	0.95
7	2:48	1.04	0.326	1.01	180.32	10.00	15.619	0.866	18.03
8	8:08	1.03	0.946	1.00	135.65	10.00	33.700	2.484	13.57
9	10:40	1.02	1.240	0.99	120.56	10.00	33.727	2.797	12.06
10	14:40	1.02	0.799	1.00	95.08	10.00	6.298	0.662	9.51
11	22:00	1.01	0.957	1.00	94.37	10.00	20.599	2.183	9.44
12	24:50	1.01	1.080	1.00	96.96	10.00	30.463	3.142	9.70
13	1:14	1.03	0.143	1.00	151.30	10.00	21.180	1.400	15.13
14	9:20	1.02	1.085	1.00	102.41	10.00	30.912	3.019	10.24
15	18:44	1.01	1.020	1.00	158.43	10.00	6.263	0.395	15.84
16	20:54	1.01	0.909	1.00	125.11	10.00	12.745	1.019	12.51
17	23:08	1.01	1.006	1.00	97.13	10.00	15.573	1.603	9.71
18	2:46	1.04	0.322	1.01	357.97	10.00	20.622	0.576	35.80
19	3:40	1.05	0.426	1.02	149.65	10.00	7.857	0.525	14.96
20	2:08		0.242						
21	2:06	1.05	0.244	1.02	193.73	10.00	16.241	0.838	19.37
22	7:24	1.04	0.860	1.01	208.07	10.00	30.315	1.457	20.81
23	8:08	1.03	0.946	1.00	123.06	10.00	46.121	3.748	12.31
24	5:00	1.04	0.581	1.01	162.72	10.00	22.374	1.375	16.27
25	6:50	1.04	0.795	1.01	147.07	10.00	37.177	2.528	14.71
	5:32	1.04	0.643	1.01	116.35	10.00	14.632	1.258	11.63
	6:48	1.04	0.791	1.01	537.83	50.00	2.917	0.271	10.76
28	10:04	1.02	1.171	0.99	102.07	10.00	25.595	2.508	10.21
29	8:08		0.946						
30	10:26	1.02	1.213	0.99	108.49	10.00	13.798	1.272	10.85
31	7:54	1.03	0.919	1.00	90.53	10.00	1.448	0.160	9.05
32	6:16	1.03	0.729	1.00	88.72	10.00	5.132	0.578	8.87
33	12:28	1.02	0.679	1.01	157.26	10.00	8.120	0.516	15.73
34	12:50	1.02	0.699	1.01	180.83	10.00	8.026	0.444	18.08
35	15:52	1.01	0.864	1.00	91.23	10.00	12.484	1.368	9.12
36	11:20	1.02	1.318	0.99	123.83	10.00	26.437	2.135	12.38
37	15:30	1.01	0.844	1.00	96.01	10.00	5.265	0.548	9.60
38	18:22	1.01	1.000	1.00	474.54	50.00	3.249	0.342	9.49
39	11:34	1.02	0.630	1.00	111.09	10.00	4.963	0.447	11.11
40	15:28	1.02	0.842	1.00	105.92	20.00	0.041	0.008	5.30
41	6:16	1.03	0.341	1.02	158.49	100.00	0.080	0.050	1.58
42	14:58	1.02	0.815	1.00	113.44	10.00	8.658	0.763	11.34
43	16:12	1.01	0.882	1.00	130.50	10.00	5.728	0.439	13.05
44	21:58	1.01	0.955	1.00	503.01	50.00	11.714	1.164	10.06
45	20:52	1.01	0.907	1.00	85.70	10.00	13.768	1.607	8.57
46	19:02	1.01	0.828	1.00	74.53	10.00	10.163	1.364	7.45
47	16:10	1.01	0.880	1.00	145.72	10.00	6.025	0.413	14.57
48	17:00	1.01	0.926	1.00	112.85	10.00	5.820	0.516	11.28
49	18:52	1.01	1.027	1.00	137.99	10.00	6.428	0.466	13.80
50	24:50	1.01	1.080	1.00	96.96	10.00	30.463	3.142	9.70

Quantitation Report File: 45171

ta: 45171.TI
11/23/87 10:14:00
Sample: 100 PPB STANDARD
Conds.: 8' X 2MM ID 1%SP1000 36(2.5) TO 220 @8C/MIN
Formula:
Submitted by: UNION CA Instrument: 5100
Analyst: JAP

Weight: 0.000
Acct. No.: P&T

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from average of whole .RL

No	Name
51	C160 1,1,2-TRICHLOROETHANE
52	C250 O&P-XYLENE
53	C245 STYRENE
54	C161 1,2,3-TRICHLOROPROPANE
55	C210 2-HEXANONE
56	C226 TRANS-1,4-DICHLORO-2-BUTENE
57	C144 1,2-DIBROMO-3-CHLOROPROPANE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	XTot
51	97	493	16:26	2	0.884	A VB	65061.	110.118 PPB	1.43
52	91	864	28:48	3	1.236	A BB	402605.	192.574 PPB	2.50
53	104	838	27:56	3	1.199	A BB	117332.	86.317 PPB	1.12
54	75	627	20:54	2	1.124	A VB	62337.	97.231 PPB	1.26
55	43	624	20:48	1	2.355	A BV	66397.	84.461 PPB	1.10
	75	642	21:24	3	0.918	A BB	23405.	88.651 PPB	1.15
57	157	765	25:30	3	1.094	A BB	22109.	117.587 PPB	1.52

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
51	16:14	1.01	0.884	1.00	110.12	10.00	4.666	0.424	11.01
52	28:20	1.02	1.232	1.00	192.57	20.00	22.480	2.335	9.63
53	27:32	1.01	1.197	1.00	86.32	10.00	14.014	1.624	8.63
54	20:38	1.01	1.123	1.00	97.23	10.00	4.852	0.499	9.72
55	20:32	1.01	2.388	0.99	84.46	10.00	19.937	2.361	8.45
56	21:10	1.01	0.920	1.00	88.65	10.00	2.214	0.250	8.87
57	25:14	1.01	1.097	1.00	117.59	10.00	2.201	0.187	11.76

V 203

TCA FINISHED, 55 FOUND
FINISHED AT: 11/23/87 9:52:18
Quantitation Report File: 45170

Data: 45170.TI
11/23/87 9:07:00

Sample: ~~A711887-01-DUP~~ 200ppb standard

Conds.: 8' X 2MM ID 1%SP1000 36(2.5) TO 220 @80/MIN

Formula: Instrument: 5100

Submitted by: UNION CA

Analyst: JAP

Weight: 0.000

Acct. No.: P&T

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

Resp. fac. from average of whole .RL

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL STANDARD)
2	CI10 1,4-DIFLUOROBENZENE (INTERNAL STANDARD)
3	CS15 DICHLOROETHANE-D4 (SURROGATE)
4	CS05 TOLUENE-D8 (SURROGATE)
5	CS10 BROMOFLUOROBENZENE (SURROGATE)
6	C020 VINYL CHLORIDE (CCC)
7	C045 1,1-DICHLOROETHENE (CCC)
8	C060 CHLOROFORM (CCC)
9	C140 1,2-DICHLOROPROPANE (CCC)
10	C230 TOLUENE (CCC)
11	C240 ETHYL BENZENE (CCC)
12	C010 CHLOROMETHANE (SPCC)
	C050 1,1-DICHLOROETHANE (SPCC)
14	C180 TRIBROMOMETHANE (BROMOFORM)
15	C225 1,1,2,2-TETRACHLOROETHANE (SPCC)
16	C235 CHLOROBENZENE (SPCC)
17	C121 DICHLOROFLUOROMETHANE
18	C025 CHLOROETHANE
19	C029 ETHYLENE OXIDE
20	C015 BROMOMETHANE
21	C122 TRICHLOROFLUOROMETHANE
22	C181 ACETONITRILE
23	C016 IODOMETHANE
24	C040 CARBON DISULFIDE
25	C030 METHYLENE CHLORIDE
26	C183 ACRYLONITRILE
27	C055 TRANS-1,2-DICHLOROETHENE
28	C182 ACRROLEIN
29	C110 METHYL ETHYL KETONE (MEK)
30	C179 PROPANENITRILE
31	C035 ACETONE
32	C115 1,1,1-TRICHLOROETHANE
33	C120 CARBON TETRACHLORIDE
34	C165 BENZENE
35	C065 1,2-DICHLOROETHANE
36	C150 TRICHLOROETHYLENE
37	C076 METHYL METHACRYLATE
38	C031 DIBROMOMETHANE
39	C130 BROMODICHLOROMETHANE
40	C125 VINYL ACETATE
41	C143 CIS-1,3-DICHLOROPROPENE
42	C145 TRANS-1,3-DICHLOROPROPENE
43	C077 ETHYL METHACRYLATE
44	C220 TETRACHLOROETHYLENE
45	C205 4-METHYL-2-PENTANONE (MIBK)
46	C155 CHLORODIBROMOMETHANE
47	

AR102890

2 Name
 3 C224 1, 1, 1, 2-TETRACHLOROETHANE
 49 C250 M-XYLENE
 50 C160 1, 1, 2-TRICHLOROETHANE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	130	266	8:52	1	1.000	A BB	17064.	50.000 PPB	0.35
2	114	559	18:38	2	1.000	A BB	69713.	50.000 PPB	0.35
3	65	345	11:30	1	1.297	A BB	33830.	64.050 PPB	0.45
4	98	664	22:08	57	0.950	A*BB	30607.	32.219 PPB	0.23
5	95	810	27:00	57	1.159	A BB	46479.	42.360 PPB	0.30
6	62	89	2:58	1	0.335	A BB	74564.	228.731 PPB	1.61
7	61	252	8:24	1	0.947	A BB	200455.	234.390 PPB	1.65
8	83	328	10:56	1	1.233	A BB	226483.	243.377 PPB	1.72
9	63	449	14:58	2	0.803	A*BB	124748.	144.280 PPB	1.02
10	91	668	22:16	57	0.956	A BB	375380.	191.643 PPB	1.35
11	91	754	25:08	57	1.079	A BB	499977.	177.152 PPB	1.25
12	50	39	1:18	1	0.147	A BV	62722.	138.227 PPB	0.97
13	63	288	9:36	1	1.083	A BB	203340.	198.116 PPB	1.40
14	173	569	18:58	2	1.018	A BB	174818.	324.708 PPB	2.29
15	83	635	21:10	57	0.908	A BB	212715.	277.990 PPB	1.96
16	112	702	23:24	57	1.004	A BB	258010.	183.508 PPB	1.29
17	85	88	2:56	1	0.331	A BB	53595.	240.349 PPB	1.70
18	64	117	3:54	1	0.440	A BB	48701.	248.389 PPB	1.75
19	NOT FOUND								
20	94	67	2:14	1	0.252	A BV	87690.	311.323 PPB	2.20
21	101	231	7:42	1	0.868	A BV	187684.	349.671 PPB	2.47
22	41	252	8:24	1	0.947	A BB	292139.	230.426 PPB	1.63
23	142	158	5:16	1	0.594	A BB	197320.	298.481 PPB	2.11
24	76	214	7:08	1	0.805	A BB	237787.	250.495 PPB	1.77
25	84	174	5:48	1	0.654	A BB	92829.	216.269 PPB	1.53
26	53	214	7:08	1	0.805	A BB	121449.	1145.060 PPB	8.08
27	61	309	10:18	1	1.162	A BB	170479.	186.105 PPB	1.31
28	56	252	8:24	1	0.947	A BB	131.	225.719 PPB	1.59
29	43	320	10:40	1	1.203	A BB	108299.	222.626 PPB	1.57
30	54	246	8:12	1	0.925	A BB	8367.	181.274 PPB	1.28
31	43	195	6:30	1	0.733	A BB	32642.	213.744 PPB	1.51
32	97	382	12:44	2	0.683	A BB	197681.	284.863 PPB	2.01
33	117	393	13:06	2	0.703	A VB	214978.	332.375 PPB	2.34
34	78	484	16:08	2	0.866	A BB	265821.	143.159 PPB	1.01
35	62	348	11:36	1	1.308	A VB	165048.	245.701 PPB	1.73
36	130	472	15:44	2	0.844	A BB	152688.	184.803 PPB	1.30
37	69	558	18:36	2	0.998	A BB	413624.	935.436 PPB	6.60
38	93	354	11:48	2	0.633	A BB	116485.	208.588 PPB	1.47
39	83	472	15:44	2	0.844	A BB	1621.	162.502 PPB	1.15
40	43	195	6:30	2	0.349	A BB	32642.	345.199 PPB	2.43
41	75	457	15:14	2	0.818	A BB	220415.	213.028 PPB	1.50
42	75	493	16:26	2	0.882	A VB	169826.	277.580 PPB	1.96
43	69	667	22:14	57	0.954	A BB	994633.	1011.330 PPB	7.13
44	166	634	21:08	57	0.907	A BB	283997.	182.051 PPB	1.28
45	43	579	19:18	57	0.828	A BB	169660.	148.438 PPB	1.05
46	127	492	16:24	2	0.880	A BB	175615.	301.093 PPB	2.12
47	107	518	17:16	2	0.927	A BB	151519.	218.942 PPB	1.54
48	131	574	19:08	2	1.027	A BB	171279.	274.848 PPB	1.94
49	91	754	25:08	57	1.079	A BB	499977.	177.152 PPB	1.25
50	97	495	16:30	2	0.886	A BB	133093.	237.711 PPB	1.68

AR102891

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	8:36	1.03	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	18:22	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	11:16	1.02	1.310	0.99	64.05	50.00	1.763	1.377	1.28
4	21:50	1.01	0.949	1.00	32.22	50.00	0.630	0.978	0.64
5	26:38	1.01	1.158	1.00	42.36	50.00	1.064	1.256	0.85
6	2:48	1.06	0.946	1.00	228.73	10.00	19.813	0.866	22.87
7	8:08	1.03	1.240	0.99	234.39	10.00	58.229	2.484	23.44
8	10:40	1.02	0.799	1.01	243.38	10.00	68.084	2.797	24.34
9	14:40	1.02	0.957	1.00	144.28	10.00	9.557	0.662	14.43
10	22:00	1.01	1.080	1.00	191.64	10.00	41.832	2.183	19.16
11	24:50	1.01	0.143	1.02	177.15	10.00	55.656	3.142	17.72
12	1:14	1.05	1.085	1.00	138.23	10.00	19.350	1.400	13.82
13	9:20	1.03	1.020	1.00	198.12	10.00	59.803	3.019	19.81
14	18:44	1.01	0.909	1.00	324.71	10.00	12.837	0.395	32.47
15	20:54	1.01	1.006	1.00	277.99	10.00	28.317	1.019	27.80
16	23:08	1.01	0.322	1.03	183.51	10.00	29.423	1.603	18.35
17	2:46	1.06	0.426	1.03	240.35	10.00	13.846	0.576	24.03
18	3:40	1.06	0.242	1.03	248.39	10.00	13.042	0.525	24.84
19	2:08	1.06	0.244	1.03	311.32	10.00	26.098	0.838	31.13
20	2:06	1.06	0.860	1.01	349.67	10.00	50.945	1.457	34.97
21	7:24	1.04	0.946	1.00	230.43	10.00	86.363	3.748	23.04
22	8:08	1.03	0.581	1.02	298.48	10.00	41.041	1.375	29.85
23	5:00	1.05	0.795	1.01	250.49	10.00	63.323	2.528	25.05
24	6:50	1.04	0.643	1.02	216.27	10.00	27.199	1.258	21.63
25	5:32	1.05	0.791	1.02	1145.07	50.00	6.211	0.271	1145.07
26	6:48	1.05	1.171	0.99	186.10	10.00	46.668	2.508	18.61
27	10:04	1.02	0.946	1.00	225.72	50.00	0.010	0.002	225.72
28	8:08	1.03	1.213	0.99	222.63	10.00	28.314	1.272	22.26
29	10:26	1.02	0.919	1.01	181.27	10.00	2.899	0.160	18.13
30	7:54	1.04	0.729	1.01	213.74	10.00	12.364	0.578	21.37
31	6:16	1.04	0.679	1.01	284.86	10.00	14.709	0.516	28.49
32	12:28	1.02	0.699	1.01	332.38	10.00	14.753	0.444	33.24
33	12:50	1.02	0.864	1.00	143.16	10.00	19.589	1.368	14.32
34	15:52	1.02	1.318	0.99	245.70	10.00	52.456	2.135	24.57
35	11:20	1.02	0.844	1.00	184.80	10.00	10.134	0.548	18.48
36	15:30	1.02	1.000	1.00	935.44	50.00	6.405	0.342	935.44
37	18:22	1.01	0.630	1.01	208.59	10.00	9.319	0.447	20.86
38	11:34	1.02	0.842	1.00	162.50	20.00	0.063	0.008	162.50
39	15:28	1.02	0.341	1.02	345.20	100.00	0.174	0.050	345.20
40	6:16	1.04	0.815	1.00	213.03	10.00	16.259	0.763	21.30
41	14:58	1.02	0.882	1.00	277.58	10.00	12.184	0.439	27.76
42	16:12	1.01	0.955	1.00	1011.34	50.00	23.551	1.164	1011.34
43	21:58	1.01	0.907	1.00	182.05	10.00	29.247	1.607	18.21
44	20:52	1.01	0.828	1.00	148.44	10.00	20.241	1.364	14.84
45	19:02	1.01	0.880	1.00	301.09	10.00	12.450	0.413	30.11
46	16:10	1.01	0.926	1.00	218.94	10.00	11.291	0.516	21.89
47	17:00	1.02	1.027	1.00	274.85	10.00	12.803	0.466	27.48
48	18:52	1.01	1.080	1.00	177.15	10.00	55.656	3.142	17.72
49	24:50	1.01	0.884	1.00	237.71	10.00	10.072	0.424	23.77
50	16:14	1.02							

4-208

Quantitation Report File: 45170

ca: 45170.TI
/23/87 9:07:00

Sample: ~~A711089-01~~ DUP. 200ppb standard

Conds.: 8' X 2MM ID 1XSP1000 36(2.5) TO 220 @80C/MIN

Formula: Instrument: 5100 Weight: 0.000
Submitted by: UNION CA Analyst: JAP Acct. No.: P&T

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from average of whole .RL

No	Name
51	C250 O&P-XYLENE
52	C245 STYRENE
53	C161 1,2,3-TRICHLOROPROPANE
54	C210 2-HEXANONE
55	C226 TRANS-1,4-DICHLORO-2-BUTENE
56	C144 1,2-DIBROMO-3-CHLOROPROPANE
57	CI20 CHLOROBENZENE-D5 (INTERNAL STANDARD)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	91	864	28:48	57	1.236	A BB	746698.	370.443 PPB	2.61
52	104	838	27:56	57	1.199	A BB	217219.	165.745 PPB	1.17
53	75	627	20:54	2	1.122	A VB	121131.	199.376 PPB	1.41
54	43	625	20:50	1	2.350	A BV	126414.	187.692 PPB	1.32
55	75	643	21:26	57	0.920	A BB	45946.	180.502 PPB	1.27
	157	766	25:32	57	1.096	A BB	43245.	238.552 PPB	1.68
/	82	699	23:18	57	1.000	A BB	44943.	50.000 PPB	0.35

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
51	28:20	1.02	1.232	1.00	370.44	20.00	43.244	2.335	18.52
52	27:32	1.01	1.197	1.00	165.74	10.00	26.910	1.624	16.57
53	20:38	1.01	1.123	1.00	199.38	10.00	9.950	0.499	19.94
54	20:32	1.01	2.388	0.98	187.69	10.00	44.305	2.361	18.77
55	21:10	1.01	0.920	1.00	180.50	10.00	4.507	0.250	18.05
56	25:14	1.01	1.097	1.00	238.55	10.00	4.464	0.187	23.86
57	23:00	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00

AR102893

Data: 45222.TI

12/01/87 8:57:00

Sample: 200 PPB STANDARD

Conds.: 8' X 2MM ID 1%SP1000 36(2.5) TO 220 @8C/MIN

Formula: Instrument: 5100

Submitted by: UNION CA Analyst: JAP

Weight: 0.000

Acct. No.: P&T

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

Resp. fac. from average of whole .RL

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL STANDARD)
2	CI10 1,4-DIFLUOROBENZENE (INTERNAL STANDARD)
3	CI20 CHLOROBENZENE-D5 (INTERNAL STANDARD)
4	CS15 DICHLOROETHANE-D4 (SURROGATE)
5	CS05 TOLUENE-D8 (SURROGATE)
6	CS10 BROMOFLUOROBENZENE (SURROGATE)
7	CO20 VINYL CHLORIDE (CCC)
8	CO45 1,1-DICHLOROETHENE (CCC)
9	CO60 CHLOROFORM (CCC)
10	C140 1,2-DICHLOROPROPANE (CCC)
11	C230 TOLUENE (CCC)
12	C240 ETHYL BENZENE (CCC)
13	CO10 CHLOROMETHANE (SPCC)
14	CO50 1,1-DICHLOROETHANE (SPCC)
15	C180 TRIBROMOMETHANE (BROMOFORM)
16	C225 1,1,2,2-TETRACHLOROETHANE (SPCC)
17	C235 CHLOROBENZENE (SPCC)
18	C121 DICHLOROFLUOROMETHANE
19	CO25 CHLOROETHANE
20	CO29 ETHYLENE OXIDE
21	CO15 BROMOMETHANE
22	C122 TRICHLOROFLUOROMETHANE
23	C181 ACETONITRILE
24	CO16 IODOMETHANE
25	CO40 CARBON DISULFIDE
26	CO30 METHYLENE CHLORIDE
27	C183 ACRYLONITRILE
28	CO55 TRANS-1,2-DICHLOROETHENE
29	C182 ACROLEIN
30	C110 METHYL ETHYL KETONE (MEK)
31	C179 PROPANENITRILE
32	CO35 ACETONE
33	C115 1,1,1-TRICHLOROETHANE
34	C120 CARBON TETRACHLORIDE
35	C165 BENZENE
36	CO65 1,2-DICHLOROETHANE
37	C150 TRICHLOROETHYLENE
38	CO76 METHYL METHACRYLATE
39	CO31 DIBROMOMETHANE
40	C130 BROMODICHLOROMETHANE
41	C125 VINYL ACETATE
42	C143 CIS-1,3-DICHLOROPROPENE
43	C145 TRANS-1,3-DICHLOROPROPENE
44	CO77 ETHYL METHACRYLATE
45	C220 TETRACHLOROETHYLENE
46	C205 4-METHYL-2-PENTANONE (MIBK)
47	C155 CHLORODIBROMOMETHANE

AR102894

C. O. P.

No Name
 48 C066 1, 2-DIBROMOETHANE
 49 C224 1, 1, 1, 2-TETRACHLOROETHANE
 50 C250 M-XYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	130	265	8:50	1	1.000	A BV	45418.	50.000 PPB	0.36
2	114	558	18:36	2	1.000	A BB	166927.	50.000 PPB	0.36
3	82	699	23:18	3	1.000	A BB	89791.	50.000 PPB	0.36
4	65	344	11:28	1	1.298	A BB	89193.	63.446 PPB	0.46
5	98	663	22:06	3	0.948	A BB	69252.	36.489 PPB	0.27
6	95	809	26:58	3	1.157	A BB	98656.	45.004 PPB	0.33
7	62	88	2:56	1	0.332	A BB	141668.	163.276 PPB✓	1.19
8	61	251	8:22	1	0.947	A BB	459951.	202.063 PPB✓	1.47
9	83	326	10:52	1	1.230	A BB	554715.	223.958 PPB✓	1.63
10	63	447	14:54	2	0.801	A BB	372640.	179.990 PPB✓	1.31
11	91	667	22:14	3	0.954	A BB	813229.	207.807 PPB✓	1.52
12	91	753	25:06	3	1.077	A BB	1058250.	187.678 PPB✓	1.37
13	50	38	1:16	1	0.143	A BB	138342.	114.546 PPB	0.84
14	63	287	9:34	1	1.083	A BB	560249.	205.084 PPB	1.50
15	173	568	18:56	2	1.018	A BB	373933.	290.060 PPB	2.12
16	83	634	21:08	3	0.907	A BB	520185.	340.263 PPB	2.48
17	112	701	23:22	3	1.003	A BB	530287.	188.780 PPB	1.38
18	85	86	2:52	1	0.325	A BB	72352.	121.905 PPB	0.89
19	64	115	3:50	1	0.434	A BB	107271.	205.555 PPB	1.50
20	NOT FOUND								
21	94	66	2:12	1	0.249	A BB	174411.	232.642 PPB	1.70
22	101	229	7:38	1	0.864	A BB	353673.	247.563 PPB	1.81
23	41	251	8:22	1	0.947	A BB	762661.	226.010 PPB	1.65
24	142	157	5:14	1	0.592	A BB	336455.	191.216 PPB	1.40
25	76	213	7:06	1	0.804	A BB	474643.	187.858 PPB	1.37
26	84	173	5:46	1	0.653	A BB	177099.	155.017 PPB	1.13
27	53	214	7:08	1	0.808	A BB	304328.	1078.020 PPB	7.87
28	61	308	10:16	1	1.162	A BB	468094.	191.988 PPB	1.40
29	NOT FOUND								
30	43	319	10:38	1	1.204	A VB	277438.	214.275 PPB	1.56
31	54	245	8:10	1	0.925	A BB	26915.	219.085 PPB	1.60
32	43	196	6:32	1	0.740	A BB	84551.	208.012 PPB	1.52
33	97	381	12:42	2	0.683	A BB	459317.	276.420 PPB	2.02
34	117	391	13:02	2	0.701	A VB	471915.	304.709 PPB	2.22
35	78	483	16:06	2	0.866	A BB	757056.	170.272 PPB	1.24
36	62	347	11:34	1	1.309	A VB	409945.	229.285 PPB	1.67
37	130	471	15:42	2	0.844	A BB	377822.	190.976 PPB	1.39
38	69	557	18:34	2	0.998	A BB	1039100.	981.415 PPB	7.16
39	93	353	11:46	2	0.633	A BB	311384.	232.864 PPB	1.70
40	83	471	15:42	2	0.844	A BB	4794.	200.727 PPB	1.47
41	43	196	6:32	2	0.351	A BB	84551.	373.420 PPB	2.73
42	75	455	15:10	2	0.815	A BB	589689.	238.015 PPB	1.74
43	75	492	16:24	2	0.882	A VB	413056.	281.955 PPB	2.06
44	69	666	22:12	3	0.953	A BB	1998440.	1017.070 PPB	7.42
45	166	633	21:06	3	0.906	A BB	713603.	228.961 PPB	1.67
46	43	578	19:16	3	0.827	A BB	490016.	214.587 PPB	1.57
47	127	491	16:22	2	0.880	A BB	399555.	286.089 PPB	2.09
8	107	517	17:14	2	0.927	A BB	395760.	238.826 PPB	1.74
49	131	572	19:04	2	1.025	A BB	369718.	247.768 PPB	1.81
50	91	753	25:06	3	1.077	A BB	1058250.	187.678 PPB	1.37

AR102895

✓ 011

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	8:36	1.03	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	18:22	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	23:00	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	11:16	1.02	1.310	0.99	63.45	50.00	1.000	1.000	1.00
5	21:50	1.01	0.949	1.00	36.49	50.00	1.747	1.377	1.27
6	26:38	1.01	1.158	1.00	45.00	50.00	0.714	0.978	0.73
7	2:48	1.05	0.326	1.02	163.28	50.00	1.130	1.256	0.90
8	8:08	1.03	0.946	1.00	202.06	10.00	14.143	0.866	16.33
9	10:40	1.02	1.240	0.99	223.96	10.00	50.198	2.484	20.21
10	14:40	1.02	0.799	1.00	179.99	10.00	62.651	2.797	22.40
11	22:00	1.01	0.957	1.00	207.81	10.00	11.922	0.662	18.00
12	24:50	1.01	1.080	1.00	187.68	10.00	45.360	2.183	20.78
13	1:14	1.03	0.143	1.00	114.55	10.00	58.963	3.142	18.77
14	9:20	1.02	1.085	1.00	205.08	10.00	16.035	1.400	11.45
15	18:44	1.01	1.020	1.00	290.06	10.00	61.907	3.019	20.51
16	20:54	1.01	0.909	1.00	340.26	10.00	11.468	0.395	29.01
17	23:08	1.01	1.006	1.00	188.78	10.00	34.661	1.019	34.03
18	2:46	1.04	0.322	1.01	121.90	10.00	30.268	1.603	18.88
19	3:40	1.05	0.426	1.02	205.56	10.00	7.023	0.576	12.19
20	2:08		0.242			10.00	10.793	0.525	20.56
21	2:06	1.05	0.244	1.02	232.64	10.00	19.502	0.838	23.26
22	7:24	1.03	0.860	1.00	247.56	10.00	36.068	1.457	24.76
23	8:08	1.03	0.946	1.00	226.01	10.00	84.708	3.748	22.60
24	5:00	1.05	0.581	1.02	191.22	10.00	26.292	1.375	19.12
25	6:50	1.04	0.795	1.01	187.86	10.00	47.489	2.528	18.79
26	5:32	1.04	0.643	1.01	155.02	10.00	19.495	1.258	15.50
27	6:48	1.05	0.791	1.02	1078.03	50.00	5.848	0.271	21.56
28	10:04	1.02	1.171	0.99	191.99	10.00	48.143	2.508	19.20
29	8:08		0.946						
30	10:26	1.02	1.213	0.99	214.27	10.00	27.252	1.272	21.43
31	7:54	1.03	0.919	1.01	219.09	10.00	3.503	0.160	21.91
32	6:16	1.04	0.729	1.02	208.01	10.00	12.033	0.578	20.80
33	12:28	1.02	0.679	1.01	276.42	10.00	14.273	0.516	27.64
34	12:50	1.02	0.699	1.00	304.71	10.00	13.525	0.444	30.47
35	15:52	1.01	0.864	1.00	170.27	10.00	23.299	1.368	17.03
36	11:20	1.02	1.318	0.99	229.29	10.00	48.951	2.135	22.93
37	15:30	1.01	0.844	1.00	190.98	10.00	10.472	0.548	19.10
38	18:22	1.01	1.000	1.00	981.41	50.00	6.720	0.342	19.63
39	11:34	1.02	0.630	1.00	232.86	10.00	10.404	0.447	23.29
40	15:28	1.02	0.842	1.00	200.73	20.00	0.077	0.008	10.04
41	6:16	1.04	0.341	1.03	373.42	100.00	0.188	0.050	3.73
42	14:58	1.01	0.815	1.00	238.02	10.00	18.166	0.763	23.80
43	16:12	1.01	0.882	1.00	281.95	10.00	12.376	0.439	28.20
44	21:58	1.01	0.955	1.00	1017.07	50.00	23.685	1.164	20.34
45	20:52	1.01	0.907	1.00	228.96	10.00	36.783	1.607	22.90
46	19:02	1.01	0.828	1.00	214.59	10.00	29.262	1.364	21.46
47	16:10	1.01	0.880	1.00	286.09	10.00	11.830	0.413	28.61
48	17:00	1.01	0.926	1.00	238.83	10.00	12.317	0.516	23.88
49	18:52	1.01	1.027	1.00	247.77	10.00	11.542	0.466	24.78
50	24:50	1.01	1.080	1.00	187.68	10.00	58.963	3.142	18.77

ARI02896

E-212

Data: 45222.TI

2/01/87 8:57:00

Sample: 200 PPB STANDARD

Conds.: 8' X 2MM ID 1%SP1000 36(2.5) TO 220 @8C/MIN

Formula:

Instrument: 5100

Weight: 0.000

Submitted by: UNION CA

Analyst: JAP

Acct. No.: P&T

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

Resp. fac. from average of whole .RL

No	Name
51	C160 1,1,2-TRICHLOROETHANE
52	C250 O&P-XYLENE
53	C245 STYRENE
54	C161 1,2,3-TRICHLOROPROPANE
55	C210 2-HEXANONE
56	C226 TRANS-1,4-DICHLORO-2-BUTENE
57	C144 1,2-DIBROMO-3-CHLOROPROPANE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	97	492	16:24	2	0.882	A BB	336679.	251.130 PPB	1.83
52	91	862	28:44	3	1.233	A VB	1487650.	369.407 PPB	2.70
53	104	837	27:54	3	1.197	A BB	458880.	175.254 PPB	1.28
54	75	626	20:52	2	1.122	A VB	327387.	225.043 PPB	1.64
55	43	623	20:46	1	2.351	A BB	337924.	188.504 PPB	1.38
56	75	642	21:24	3	0.918	A BB	133076.	261.676 PPB	1.91
57	157	764	25:28	3	1.093	A BB	91128.	251.609 PPB	1.84

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
51	16:14	1.01	0.884	1.00	251.13	10.00	10.641	0.424	25.11
52	28:20	1.01	1.232	1.00	369.41	20.00	43.123	2.335	18.47
53	27:32	1.01	1.197	1.00	175.25	10.00	28.453	1.624	17.53
54	20:38	1.01	1.123	1.00	225.04	10.00	11.231	0.499	22.50
55	20:32	1.01	2.388	0.98	188.50	10.00	44.497	2.361	18.85
56	21:10	1.01	0.920	1.00	261.68	10.00	6.534	0.250	26.17
57	25:14	1.01	1.097	1.00	251.61	10.00	4.709	0.187	25.16

E 213

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	8:36	1.02	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	18:22	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	23:00	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	11:16	1.01	1.310	0.99	53.81	50.00	1.000	1.000	1.00
5	21:50	1.01	0.949	1.00	45.50	50.00	1.482	1.377	1.08
6	26:38	1.01	1.158	1.00	46.71	50.00	0.890	0.978	0.91
7	2:48	1.04	0.326	1.01	3.01	50.00	1.173	1.256	0.93
8	8:08	1.02	0.946	1.00	0.44	10.00	0.261	0.866	0.30
9	10:40	1.02	1.240	1.00	0.49	10.00	0.109	2.484	0.04
10	14:40		0.799			10.00	0.136	2.797	0.05
11	22:00	1.01	0.957	1.00	0.66	10.00	0.144	2.183	0.07
12	24:50	1.01	1.080	1.00	0.30	10.00	0.094	3.142	0.03
13	1:14	1.03	0.143	1.00	0.18	10.00	0.025	1.400	0.02
14	9:20	1.02	1.085	1.00	11.03	10.00	3.329	3.019	1.10
15	18:44		1.020						
16	20:54		0.909						
17	23:08		1.006						
18	2:46	1.05	0.322	1.02	0.41	10.00	0.024	0.576	0.04
19	3:40	1.04	0.426	1.01	2.22	10.00	0.117	0.525	0.22
20	2:08	1.02	0.242	1.02	1865.31	100.00	1.457	0.078	18.65
21	2:06		0.244						
22	7:24	1.03	0.860	1.00	2.10	10.00	0.305	1.457	0.21
23	8:08		0.946						
24	5:00		0.581						
25	6:50	1.03	0.795	1.01	0.32	10.00	0.081	2.528	0.03
26	5:32	1.04	0.643	1.01	22.17	10.00	2.788	1.258	2.22
27	6:48		0.791						
28	10:04	1.02	1.171	1.00	6.77	10.00	1.697	2.508	0.68
29	8:08		0.946						
30	10:26		1.213						
31	7:54		0.919						
32	6:16	1.07	0.729	1.05	5.30	10.00	0.306	0.578	0.53
33	12:28	1.02	0.679	1.01	37.67	10.00	1.945	0.516	3.77
34	12:50	0.99	0.699	0.98	5.33	10.00	0.237	0.444	0.53
35	15:52	1.01	0.864	1.00	0.70	10.00	0.096	1.368	0.07
36	11:20		1.318						
37	15:30	1.01	0.844	1.00	5.69	10.00	0.312	0.548	0.57
38	18:22	1.01	1.000	1.00	5.77	50.00	0.040	0.342	0.12
39	11:34	1.01	0.630	1.00	0.52	10.00	0.023	0.447	0.05
40	15:28		0.842						
41	6:16	1.03	0.341	1.02	8.09	100.00	0.004	0.050	0.08
42	14:58		0.815						
43	16:12		0.882						
44	21:58	1.01	0.955	0.99	0.70	50.00	0.016	1.164	0.01
45	20:52	1.01	0.907	1.00	0.34	10.00	0.054	1.607	0.03
46	19:02		0.828						
47	16:10		0.880						
48	17:00		0.926						
49	18:52		1.027						
50	24:50	1.01	1.080	1.00	0.30	10.00	0.094	3.142	0.03

AR102898

6217

Data: 45234.TI

2/01/87 20:30:00

Sample: A711040-06

Conds.: 8' X 2MM ID 1%SP1000 36(2.5) TO 220 @8C/MIN

Formula:

Instrument: 5100

Weight: 0.000

Submitted by: WESTON

Analyst: JAP

Acct. No.: P&T

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

Resp. fac. from average of whole .RL

No	Name
51	C160 1,1,2-TRICHLOROETHANE
52	C250 O&P-XYLENE
53	C245 STYRENE
54	C161 1,2,3-TRICHLOROPROPANE
55	C210 2-HEXANONE
56	C226 TRANS-1,4-DICHLORO-2-BUTENE
57	C144 1,2-DIBROMO-3-CHLOROPROPANE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	NOT FOUND								
52	91	862	28:44	3	1.235	A VV	1482.	0.345 PPB	0.02
53	104	838	27:56	3	1.201	A BB	1082.	0.388 PPB	0.02
54	NOT FOUND								
55	NOT FOUND								
56	NOT FOUND								
57	NOT FOUND								

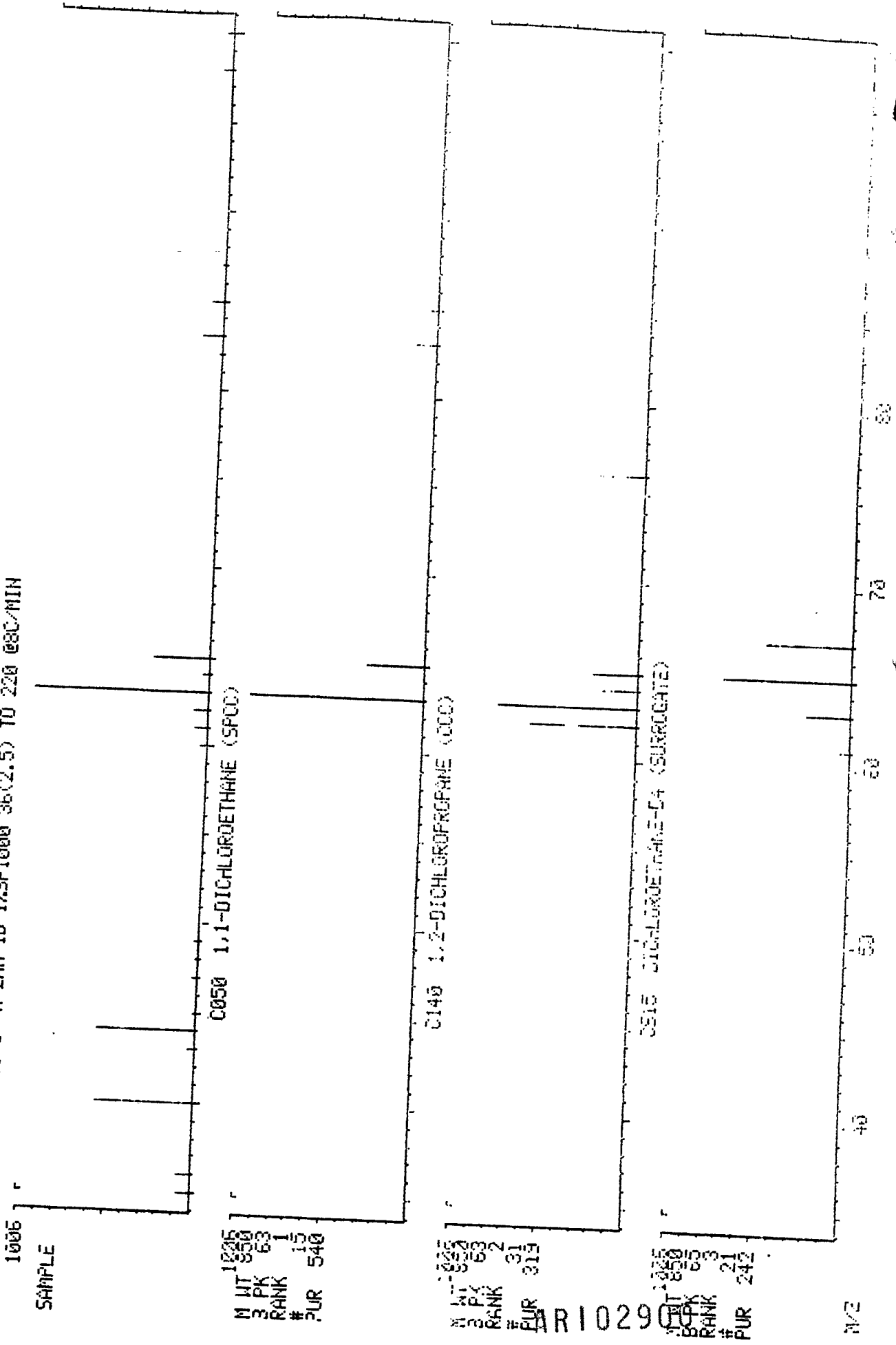
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
51	16:14		0.884						
52	28:20	1.01	1.232	1.00	0.35	20.00	0.040	2.335	0.02
53	27:32	1.01	1.197	1.00	0.39	10.00	0.063	1.624	0.04
54	20:38		1.123						
55	20:32		2.388						
56	21:10		0.920						
57	25:14		1.097						

V-215

LIBRARY SEARCH
12/01/87 20:30:00 + 9:32
SAMPLE: A711040-06
CONDS.: 8' X 2MM ID 175P1000 36(2.5) TO 220 @80/MIN

DATA: 45234 # 286
CALI: 45234 # 2

BASE M/Z: 53
RIG: 17791.



1000

SAMPLE

0050 1,1-DICHLOROETHANE (SPOC)

1226
M WT 350
PK 63
RANK 1
PUR 15
PUR 540

0140 1,2-DICHLOROPROPANE (OCCO)

1226
M WT 350
PK 62
RANK 31
PUR 319

0315 DICHLOROMETHANE-D4 (SURROGATE)

1226
M WT 350
PK 63
RANK 21
PUR 242

M/Z

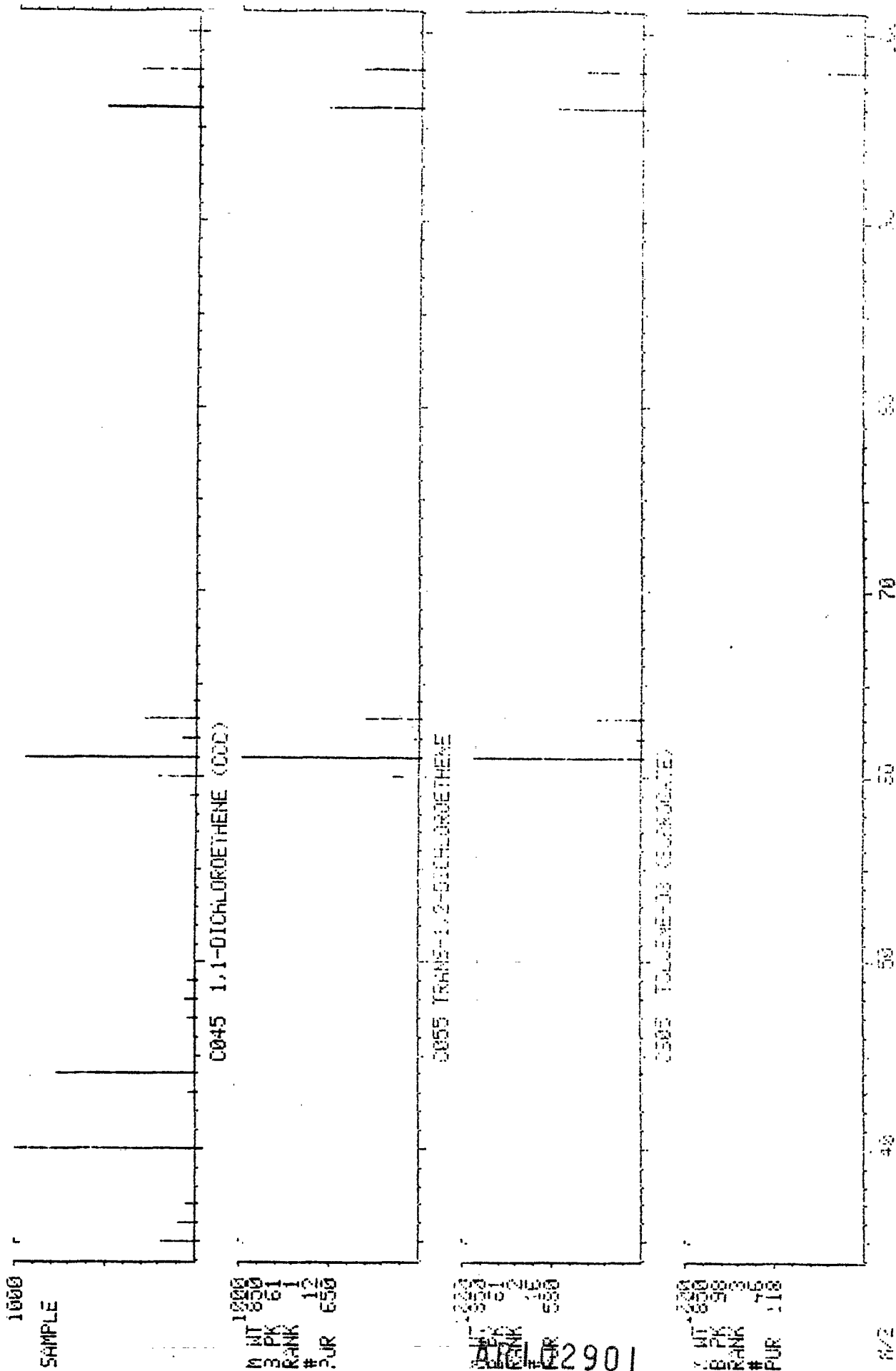
ARI 029

F 210

LIBRARY SEARCH
12/01/87 20:30:00 + 10:16
SAMPLE: A711040-06
CONDS.: 8' X 2MM ID 125P1000 36(2.5) TO 220 08C/MIN

DATA: 45234 # 305
CALI: 45234 # 2

BASE M/2: 40
RIC: 15007.



1000
M NT 8500
3 PK 61
RANK 1
PUR 12
PUR 650

1000
M NT 8500
3 PK 61
RANK 1
PUR 12
PUR 650
AUG 12 901

1000
M NT 8500
3 PK 61
RANK 1
PUR 12
PUR 650

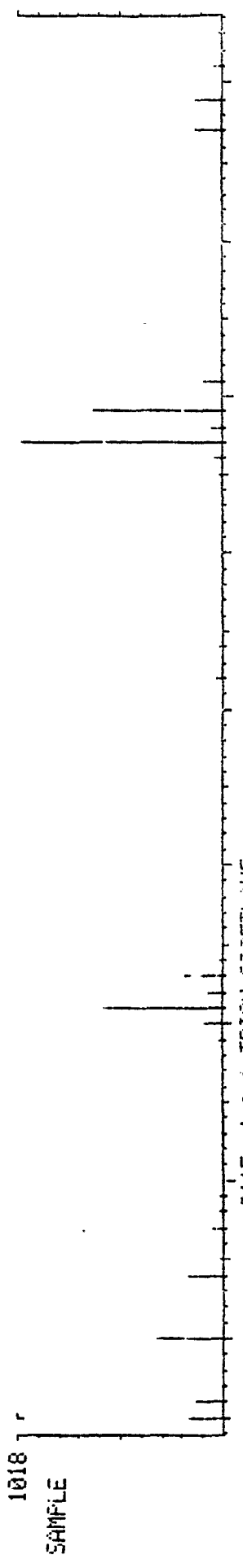
M/2

1121

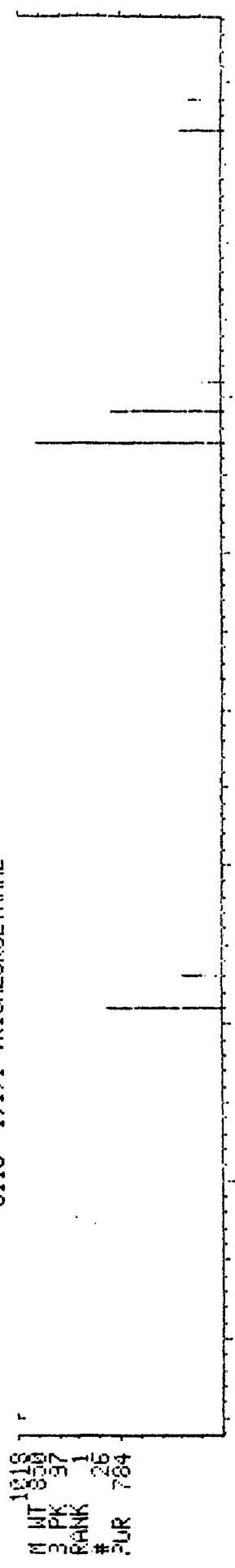
LIBRARY SEARCH
12/01/87 20:30:00 + 12:40
SAMPLE: A711040-06
COND5.: 8' X 2MM ID 125P1000 36(2.5) TO 220 08C/MIN

DATA: 45234 # 380
CALI: 45234 # 2

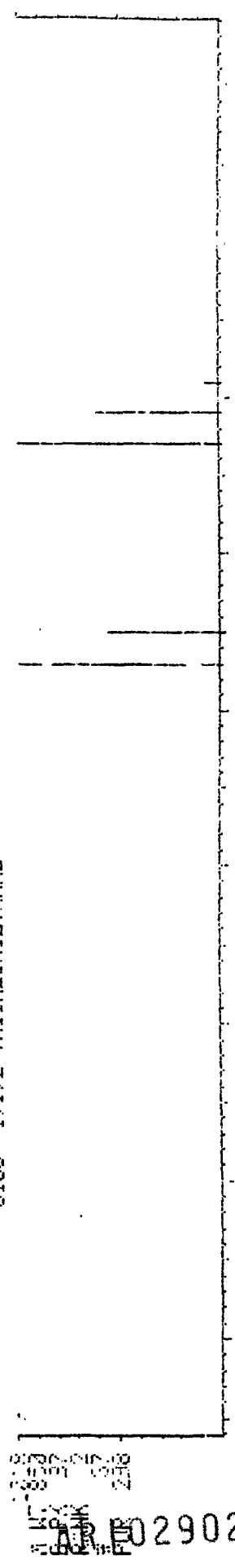
BASE M/Z: 57
RIC: 44351.



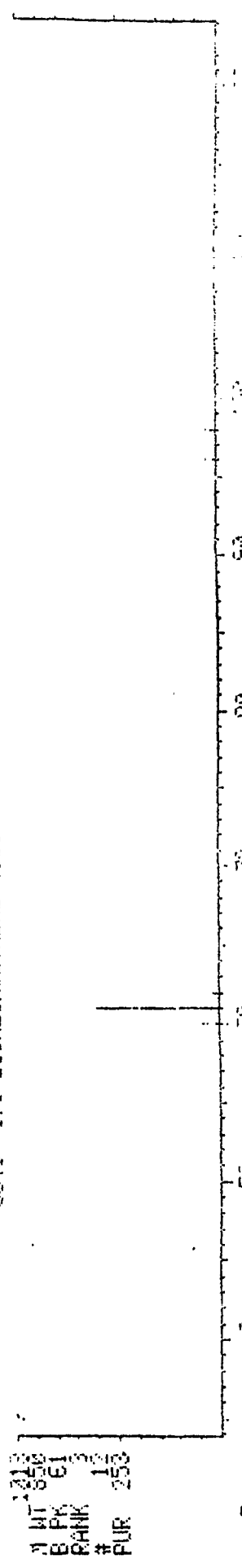
1018
M WT 830
B PK 37
RANK 1
PUR 25
PUR 784



1121
M WT 830
B PK 37
RANK 1
PUR 25
PUR 784



102902
M WT 830
B PK 37
RANK 1
PUR 25
PUR 784

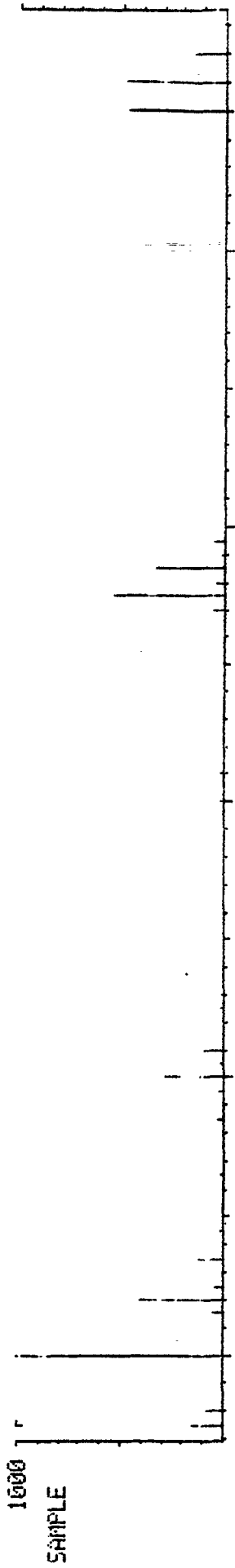


M/Z

LIBRARY SEARCH
 12/01/87 20:30:00 + 15:40
 SAMPLE: A711042-06
 CONDS.: 6' X 2MM ID 175P1000 36(2.5) TO 220 @80/MIN

DATA: 45234 # 470
 CALI: 45234 # 2

BASE M/Z: 40
 RIC: 14335.



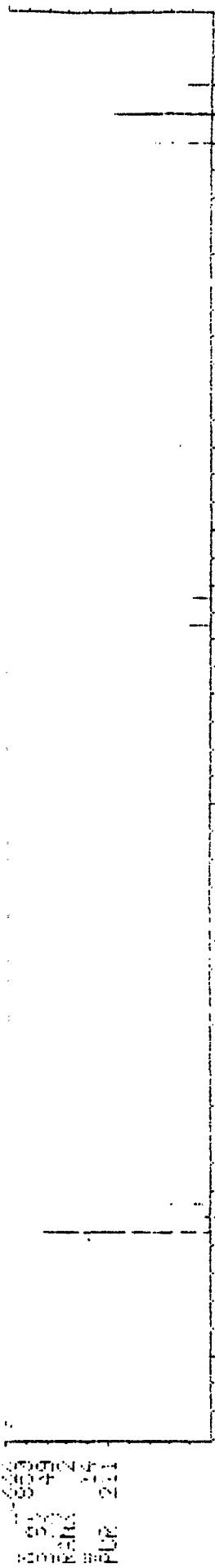
C150 TRICHLOROETHYLENE

M WT 1220
 Z PV 830
 RANK 95
 # 1
 PUR 33
 644



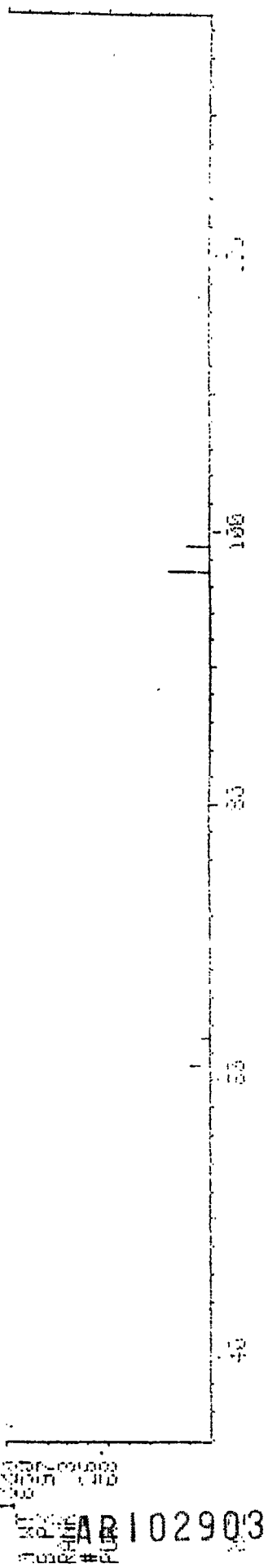
C101 BROMOCHLOROMETHANE (INTERNAL STANDARD)

M WT 1220
 Z PV 830
 RANK 95
 # 1
 PUR 33
 644



C115 1,1,1-TRICHLOROETHANE

M WT 1220
 Z PV 830
 RANK 95
 # 1
 PUR 33
 644



AR 102903

810A

5211

SAMPLE WORKSHEET FOR AQUEOUS VOLATILES

CONTRACT NAME WESTON
CONTRACT NUMBER 325-001-02-01
RADIANT CONTACT RICHARDSON
SAMPLE COLLECTION DATE 11/04/87
DATE SUBMITTED 11/09/87
SAMPLE EXPIRATION DATE 11/18/87

SAMPLE DESCRIPTION

SAMPLE NO. (SAM) A711040-06A + B SAMPLE IDENTIFIER 6585
FRN#(S)
ANALYSIS [] TCLP [XX] 8240 [] APPENDIX VIII [] APPENDIX IX [] 1624
[] OTHER (specify)

SAMPLE CONDITION

SAMPLE COLD? YES XX NO
CHAIN OF CUSTODY SEAL INTACT? YES XX NO
SEPTUM PLACED CORRECTLY? YES XX NO
NO HEADSPACE PRESENT? YES XX NO
SAMPLE HOMOGENOUS? YES NO XX

OTHER COMMENTS ON SAMPLE DESCRIPTION

SAMPLE RECEIVED FOR LAB BY KEN LARSON DATE 11/13/87

SAMPLE RECEIVED FOR ANALYSIS BY JAP DATE 11/17/87

SAMPLE ANALYSIS

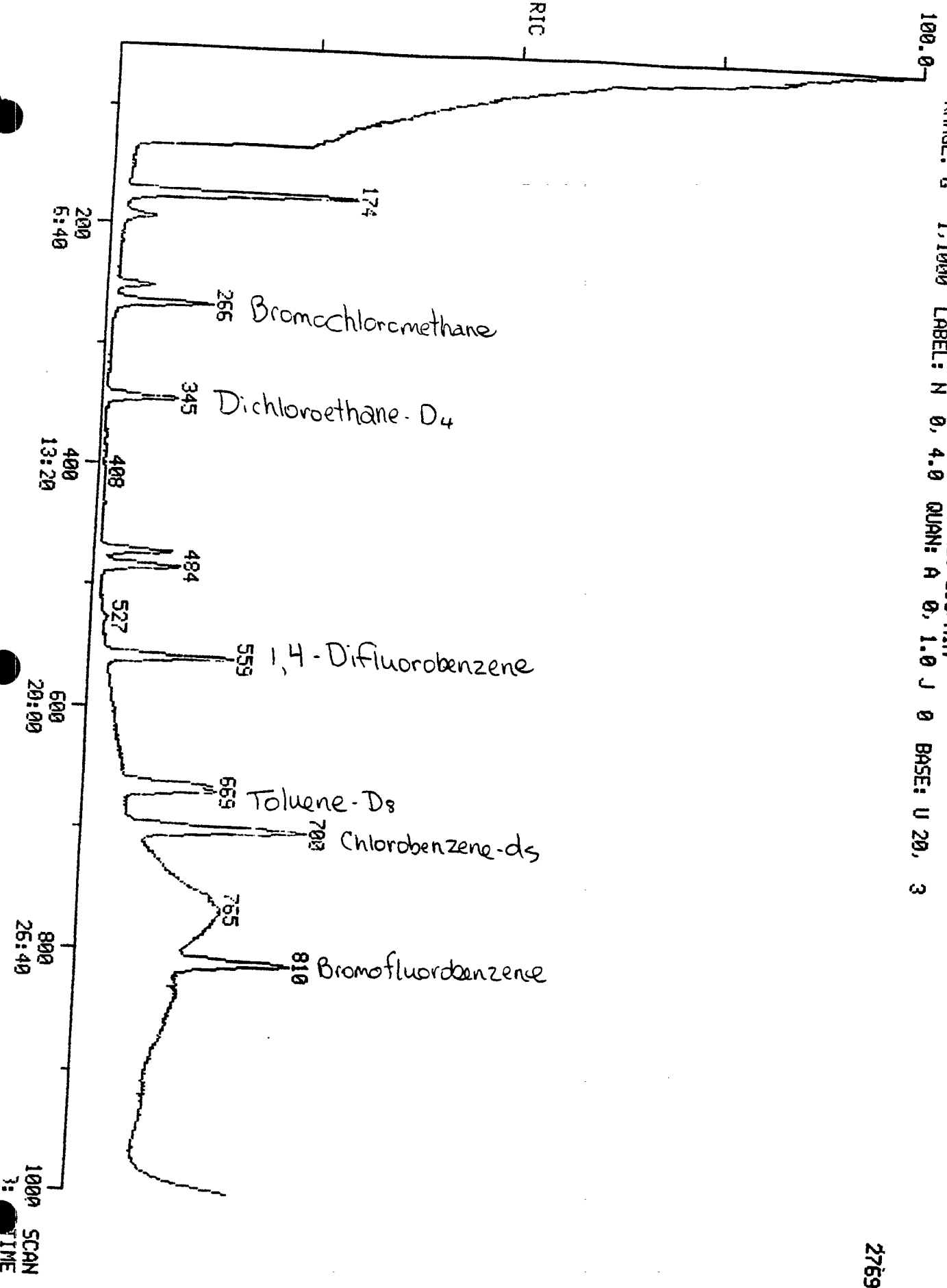
Table with 8 columns: FRN, VOL. OF SAMPLE, AMOUNT IN Ng (100, 250, OTHER), TYPE IS, DATE OF ANALYSIS, ANALYST, COMMENTS. Contains 5 rows of blank lines for data entry.

ADDITIONAL COMMENTS

AR102904

RIC
 11/23/87 22:31:00
 SAMPLE: A711040-02 MATRIX SPIKE
 CONDS.: 8' X 2MM ID 125P1000 36(2.5) TO 220 @8C/MIN
 RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 45184 #1
 CALL: 45184 #2
 SCANS 50 TO 1000



ARI02905.

276992.

4221

Data: 45184.TI

11/23/87 22:31:00

Sample: A711040-02 MATRIX SPIKE

Conds.: 8' X 2MM ID 1%SP1000 36(2.5) TO 220 @8C/MIN

Formula:

Instrument: 5100

Weight: 0.001

Submitted by: WESTON

Analyst: JAP

Acct. No.: P&T

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

Resp. fac. from average of whole .RL

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL STANDARD)
2	CI10 1,4-DIFLUOROBENZENE (INTERNAL STANDARD)
3	CI20 CHLORO BENZENE-D5 (INTERNAL STANDARD)
4	CS15 DICHLOROETHANE-D4 (SURROGATE)
5	CS05 TOLUENE-D8 (SURROGATE)
6	CS10 BROMOFLUOROBENZENE (SURROGATE)
7	C020 VINYL CHLORIDE (CCC)
8	C045 1,1-DICHLOROETHENE (CCC)
9	C060 CHLOROFORM (CCC)
10	C140 1,2-DICHLOROPROPANE (CCC)
11	C230 TOLUENE (CCC)
12	C240 ETHYL BENZENE (CCC)
13	C010 CHLOROMETHANE (SPCC)
14	C050 1,1-DICHLOROETHANE (SPCC)
15	C180 TRIBROMOMETHANE (BROMOFORM)
16	C225 1,1,2,2-TETRACHLOROETHANE (SPCC)
17	C235 CHLORO BENZENE (SPCC)
18	C121 DICHLOROFLUOROMETHANE
19	C025 CHLOROETHANE
20	C029 ETHYLENE OXIDE
21	C015 BROMOMETHANE
22	C122 TRICHLOROFLUOROMETHANE
23	C181 ACETONITRILE
24	C016 IODOMETHANE
25	C040 CARBON DISULFIDE
26	C030 METHYLENE CHLORIDE
27	C183 ACRYLONITRILE
28	C055 TRANS-1,2-DICHLOROETHENE
29	C182 ACROLEIN
30	C110 METHYL ETHYL KETONE (MEK)
31	C179 PROPANENITRILE
32	C035 ACETONE
33	C115 1,1,1-TRICHLOROETHANE
34	C120 CARBON TETRACHLORIDE
35	C165 BENZENE
36	C065 1,2-DICHLOROETHANE
37	C150 TRICHLOROETHYLENE
38	C076 METHYL METHACRYLATE
39	C031 DIBROMOMETHANE
40	C130 BROMODICHLOROMETHANE
41	C125 VINYL ACETATE
42	C143 CIS-1,3-DICHLOROPROPENE
43	C145 TRANS-1,3-DICHLOROPROPENE
44	C077 ETHYL METHACRYLATE
45	C220 TETRACHLOROETHYLENE
46	C205 4-METHYL-2-PENTANONE (MIBK)
47	C155 CHLORODIBROMOMETHANE

AR102906

E d d d

No Name
 48 C066 1,2-DIBROMOETHANE
 49 C224 1,1,1,2-TETRACHLOROETHANE
 50 C250 M-XYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	130	266	8:52	1	1.000	A BB	22246.	50.000 PPB	4.34
2	114	559	18:38	2	1.000	A BB	76170.	50.000 PPB	4.34
3	82	700	23:20	3	1.000	A BB	42620.	50.000 PPB	4.34
4	65	345	11:30	1	1.297	A BB	38204.	55.483 PPB	4.82
5	98	664	22:08	3	0.949	A BB	43926.	48.761 PPB	4.23
6	95	810	27:00	3	1.157	A BB	53000.	50.936 PPB	4.42
7	NOT FOUND								
8	61	251	8:22	1	0.944	A BB	23850.	21.391 PPB	1.86 86
9	83	328	10:56	1	1.233	A BB	87.	0.072 PPB	0.01
10	63	449	14:58	2	0.803	A BB	123.	0.130 PPB	0.01
11	91	669	22:18	3	0.956	A BB	51820.	27.898 PPB	2.42 112
12	91	755	25:10	3	1.079	A VV	3400.	1.271 PPB	0.11
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	112	703	23:26	3	1.004	A BB	37060.	27.795 PPB	2.41 111
18	NOT FOUND								
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	101	231	7:42	1	0.868	A BB	605.	0.865 PPB	0.08
23	41	257	8:34	1	0.966	A BB	100.	0.061 PPB	0.01
24	NOT FOUND								
25	76	215	7:10	1	0.808	A BB	379.	0.306 PPB	0.03
26	84	174	5:48	1	0.654	A BB	65446.	116.956 PPB	10.15
27	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	43	315	10:30	1	1.184	A VB	252.	0.397 PPB	0.03
31	NOT FOUND								
32	43	193	6:26	1	0.726	A BB	40612.	203.986 PPB	17.71
33	NOT FOUND								
34	NOT FOUND								
35	78	484	16:08	2	0.866	A BB	47665.	23.494 PPB	2.04 94
36	NOT FOUND								
37	130	472	15:44	2	0.844	A BB	18747.	20.767 PPB	1.80 83
38	69	559	18:38	2	1.000	A BB	2955.	6.116 PPB	0.53
39	93	355	11:50	2	0.635	A BB	210.	0.344 PPB	0.03
40	NOT FOUND								
41	43	193	6:26	2	0.345	A BB	40612.	393.077 PPB	34.13
42	NOT FOUND								
43	75	493	16:26	2	0.882	A BB	88.	0.132 PPB	0.01
44	69	664	22:08	3	0.949	A BB	664.	0.712 PPB	0.06
45	NOT FOUND								
46	43	580	19:20	3	0.829	A BB	492.	0.454 PPB	0.04
47	127	491	16:22	2	0.878	A BB	67.	0.105 PPB	0.01
48	NOT FOUND								
49	131	576	19:12	2	1.030	A BB	106.	0.156 PPB	0.01
	91	755	25:10	3	1.079	A VV	3400.	1.271 PPB	0.11

AR102907

V. d. d. 9

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	8:36	1.03	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	18:22	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	23:00	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	11:16	1.02	1.310	0.99	55.48	50.00	1.528	1.377	1.11
5	21:50	1.01	0.949	1.00	48.76	50.00	0.954	0.978	0.98
6	26:38	1.01	1.158	1.00	50.94	50.00	1.279	1.256	1.02
7	2:48		0.326						
8	8:08	1.03	0.946	1.00	21.39	10.00	5.314	2.484	2.14
9	10:40	1.02	1.240	0.99	0.07	10.00	0.020	2.797	0.01
10	14:40	1.02	0.799	1.01	0.13	10.00	0.009	0.662	0.01
11	22:00	1.01	0.957	1.00	27.90	10.00	6.090	2.183	2.79
12	24:50	1.01	1.080	1.00	1.27	10.00	0.399	3.142	0.13
13	1:14		0.143						
14	9:20		1.085						
15	18:44		1.020						
16	20:54		0.909						
17	23:08	1.01	1.006	1.00	27.80	10.00	4.457	1.603	2.78
18	2:46		0.322						
19	3:40		0.426						
20	2:08		0.242						
21	2:06		0.244						
22	7:24	1.04	0.860	1.01	0.86	10.00	0.126	1.457	0.09
23	8:08	1.05	0.946	1.02	0.06	10.00	0.023	3.748	0.01
24	5:00		0.531						
25	6:50	1.05	0.795	1.02	0.31	10.00	0.077	2.528	0.03
26	5:32	1.05	0.643	1.02	116.96	10.00	14.709	1.258	11.70
27	6:48		0.791						
28	10:04		1.171						
29	8:08		0.946						
30	10:26	1.01	1.213	0.98	0.40	10.00	0.051	1.272	0.04
31	7:54		0.919						
32	6:16	1.03	0.729	1.00	203.99	10.00	11.800	0.578	20.40
33	12:28		0.679						
34	12:50		0.699						
35	15:52	1.02	0.864	1.00	23.49	10.00	3.215	1.368	2.35
36	11:20		1.318						
37	15:30	1.02	0.844	1.00	20.77	10.00	1.139	0.548	2.08
38	18:22	1.01	1.000	1.00	6.12	50.00	0.042	0.342	0.12
39	11:34	1.02	0.630	1.01	0.34	10.00	0.015	0.447	0.03
40	15:28		0.842						
41	6:16	1.03	0.341	1.01	393.08	100.00	0.198	0.050	3.93
42	14:58		0.815						
43	16:12	1.01	0.882	1.00	0.13	10.00	0.006	0.439	0.01
44	21:58	1.01	0.955	0.99	0.71	50.00	0.017	1.164	0.01
45	20:52		0.907						
46	19:02	1.02	0.828	1.00	0.45	10.00	0.062	1.364	0.05
47	16:10	1.01	0.880	1.00	0.11	10.00	0.004	0.413	0.01
48	17:00		0.926						
49	18:52	1.02	1.027	1.00	0.16	10.00	0.007	0.466	0.02
50	24:50	1.01	1.080	1.00	1.27	10.00	0.399	3.142	0.13

ARI02908

45184

Quantitation Report File: 45184

Data: 45184.TI

1/23/87 22:31:00

Sample: A711040-02 MATRIX SPIKE

Conds.: 8' X 2MM ID 1%SP1000 35(2.5) TO 220 @80/MIN

Formula:

Instrument: 5100

Weight: 0.001

Submitted by: WESTON

Analyst: JAP

Acct. No.: P&T

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

Resp. fac. from average of whole .RL

No	Name
51	C160 1,1,2-TRICHLOROETHANE
52	C250 O&P-XYLENE
53	C245 STYRENE
54	C161 1,2,3-TRICHLOROPROPANE
55	C210 2-HEXANONE
56	C226 TRANS-1,4-DICHLORO-2-BUTENE
57	C144 1,2-DIBROMO-3-CHLOROPROPANE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	NOT FOUND								
52	NOT FOUND								
53	104	825	27:30	3	1.179	A BB	152.	0.122 PPB	0.01
54	NOT FOUND								
55	NOT FOUND								
56	NOT FOUND								
57	NOT FOUND								

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
51	16:14		0.884						
52	28:20		1.232						
53	27:32	1.00	1.197	0.98	0.12	10.00	0.020	1.624	0.01
54	20:38		1.123						
55	20:32		2.388						
56	21:10		0.920						
57	25:14		1.097						

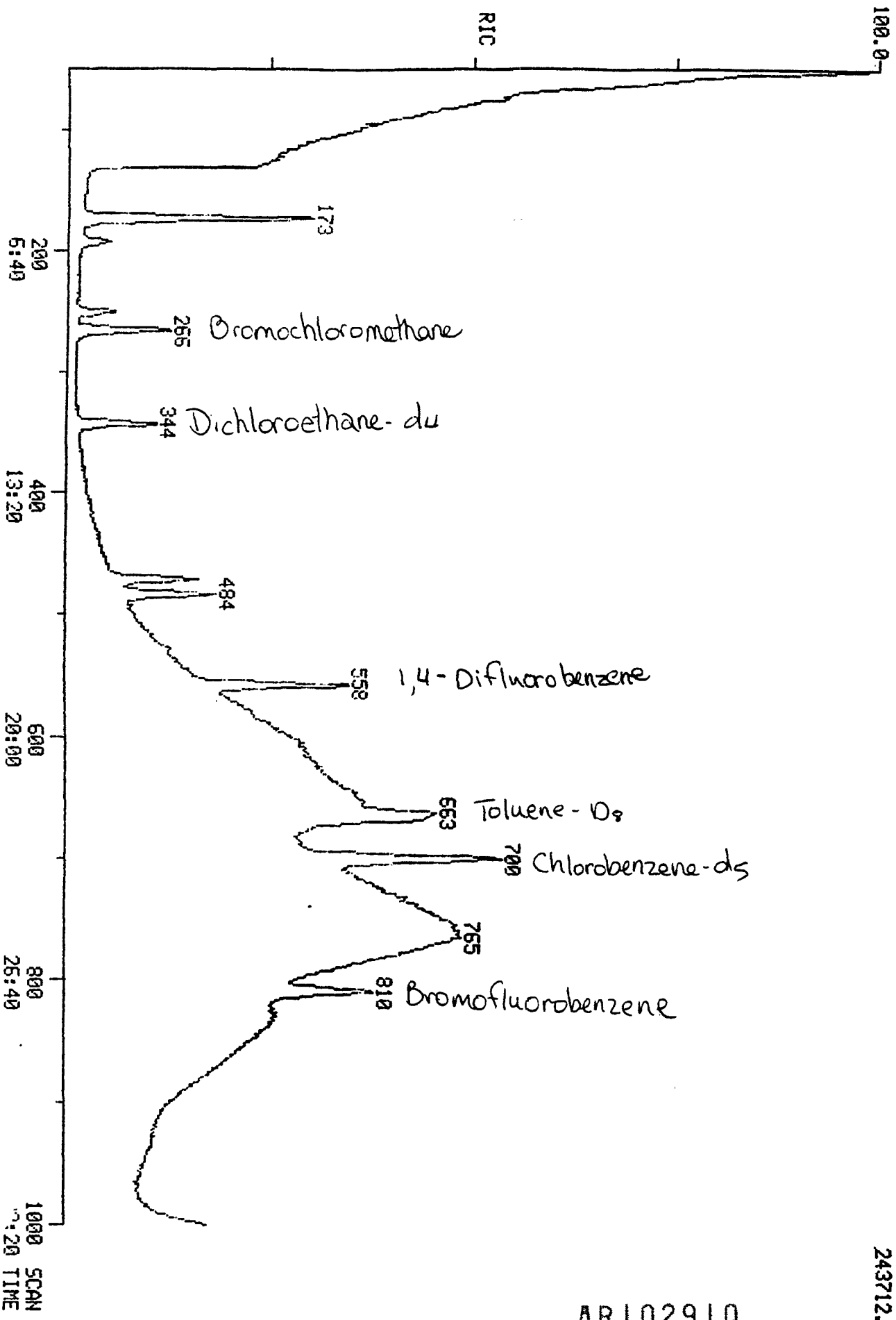
AR102909

RIC
11/23/87 23:15:00
SAMPLE: A711040-02 MATRIX SPIKE DUP.
COND.S.: 8' X 2MM ID 125P1000 36(2.5) TO 220 @8C/MIN
RANGE: G 1.1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 45185 #1
CALI: 45185 #2

SCANS 50 TO 1000

243712.



ARI02910

✓ day

Quantitation Report File: 45185

Data: 45185.TI
1/23/87 23:15:00

Sample: A711040-02 MATRIX SPIKE DUP.
Conds.: 8' X 2MM ID 1%SP1000 36(2.5) TO 220 @8C/MIN

Formula: Instrument: 5100
Submitted by: WESTON Analyst: JAP

Weight: 0.001
Acct. No.: P&T

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from average of whole .RL

- No Name
- 1 CI01 BROMOCHLOROMETHANE (INTERNAL STANDARD)
- 2 CI10 1,4-DIFLUOROBENZENE (INTERNAL STANDARD)
- 3 CI20 CHLOROBENZENE-D5 (INTERNAL STANDARD)
- 4 CS15 DICHLOROETHANE-D4 (SURROGATE)
- 5 CS05 TOLUENE-D8 (SURROGATE)
- 6 CS10 BROMOFLUOROBENZENE (SURROGATE)
- 7 C020 VINYL CHLORIDE (CCC)
- 8 C045 1,1-DICHLOROETHENE (CCC)
- 9 C060 CHLOROFORM (CCC)
- 10 C140 1,2-DICHLOROPROPANE (CCC)
- 11 C230 TOLUENE (CCC)
- 12 C240 ETHYL BENZENE (CCC)
- 13 C010 CHLOROMETHANE (SPCC)
- 14 C050 1,1-DICHLOROETHANE (SPCC)
- 15 C180 TRIBROMOMETHANE (BROMOFORM)
- 16 C225 1,1,2,2-TETRACHLOROETHANE (SPCC)
- 17 C235 CHLOROBENZENE (SPCC)
- 18 C121 DICHLOROFLUOROMETHANE
- 19 C025 CHLOROETHANE
- 20 C029 ETHYLENE OXIDE
- 21 C015 BROMOMETHANE
- 22 C122 TRICHLOROFLUOROMETHANE
- 23 C181 ACETONITRILE
- 24 C016 IODOMETHANE
- 25 C040 CARBON DISULFIDE
- 26 C030 METHYLENE CHLORIDE
- 27 C183 ACRYLONITRILE
- 28 C055 TRANS-1,2-DICHLOROETHENE
- 29 C182 ACROLEIN
- 30 C110 METHYL ETHYL KETONE (MEK)
- 31 C179 PROPANENITRILE
- 32 C035 ACETONE
- 33 C115 1,1,1-TRICHLOROETHANE
- 34 C120 CARBON TETRACHLORIDE
- 35 C165 BENZENE
- 36 C065 1,2-DICHLOROETHANE
- 37 C150 TRICHLOROETHYLENE
- 38 C076 METHYL METHACRYLATE
- 39 C031 DIBROMOMETHANE
- 40 C130 BROMODICHLOROMETHANE
- 41 C125 VINYL ACETATE
- 42 C143 CIS-1,3-DICHLOROPROPENE
- 43 C145 TRANS-1,3-DICHLOROPROPENE
- 44 C077 ETHYL METHACRYLATE
- 45 C220 TETRACHLOROETHYLENE
- 46 C205 4-METHYL-2-PENTANONE (MIBK)
- 47 C155 CHLORODIBROMOMETHANE

AR102911

Ca 1

No Name
 48 C066 1, 2-DIBROMOETHANE
 49 C224 1, 1, 1, 2-TETRACHLOROETHANE
 50 C250 M-XYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	130	265	8:50	1	1.000	A BB	19407.	50.000 PPB	6.67
2	114	558	18:36	2	1.000	A BB	78171.	50.000 PPB	6.67
3	82	699	23:18	3	1.000	A BB	37032.	50.000 PPB	6.67
4	65	344	11:28	1	1.298	A BB	38655.	64.350 PPB	8.59
5	98	663	22:06	3	0.948	A BB	39542.	50.517 PPB	6.74
6	95	809	26:58	3	1.157	A BB	39444.	43.628 PPB	5.82
7	NOT FOUND								
8	61	250	8:20	1	0.943	A BB	22343.	22.971 PPB	3.07 92
9	NOT FOUND								
10	NOT FOUND								
11	91	669	22:18	3	0.957	A BB	45633.	28.274 PPB	3.77 113
12	91	754	25:08	3	1.079	A BV	2267.	0.975 PPB	0.13
13	NOT FOUND								
14	63	285	9:30	1	1.075	A BB	107.	0.092 PPB	0.01
15	NOT FOUND								
16	NOT FOUND								
17	112	702	23:24	3	1.004	A BB	32135.	27.738 PPB	3.70 111
18	NOT FOUND								
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	101	229	7:38	1	0.864	A BB	483.	0.791 PPB	0.11
23	NOT FOUND								
24	NOT FOUND								
25	76	213	7:06	1	0.804	A BB	436.	0.404 PPB	0.05
26	84	173	5:46	1	0.653	A BB	56459.	115.655 PPB	15.43
27	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	43	192	6:24	1	0.725	A BB	32196.	185.371 PPB	24.74
33	NOT FOUND								
34	NOT FOUND								
35	78	484	16:08	2	0.867	A BB	47455.	22.792 PPB	3.04 91
36	62	345	11:30	1	1.302	A BB	326.	0.427 PPB	0.06 86
37	130	472	15:44	2	0.846	A BB	19824.	21.398 PPB	2.86
38	69	558	18:36	2	1.000	A BB	3048.	6.147 PPB	0.82
39	93	353	11:46	2	0.633	A BB	253.	0.404 PPB	0.05
40	83	472	15:44	2	0.846	A BB	83.	7.420 PPB	0.99
41	NOT FOUND								
42	NOT FOUND								
43	NOT FOUND								
44	NOT FOUND								
45	NOT FOUND								
46	43	579	19:18	3	0.828	A BB	254.	0.270 PPB	0.04
47	NOT FOUND								
48	NOT FOUND								
49	NOT FOUND								
50	91	754	25:08	3	1.079	A BV	2267.	0.975 PPB	0.13

ARI02912

1000

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	8:36	1.03	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	18:22	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	23:00	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	11:16	1.02	1.310	0.99	64.35	50.00	1.772	1.377	1.29
5	21:50	1.01	0.949	1.00	50.52	50.00	0.989	0.978	1.01
6	26:38	1.01	1.158	1.00	43.63	50.00	1.096	1.256	0.87
7	2:48		0.326						
8	8:08	1.02	0.946	1.00	22.97	10.00	5.707	2.484	2.30
9	10:40		1.240						
10	14:40		0.799						
11	22:00	1.01	0.957	1.00	28.27	10.00	6.172	2.183	2.83
12	24:50	1.01	1.080	1.00	0.97	10.00	0.306	3.142	0.10
13	1:14		0.143						
14	9:20	1.02	1.085	0.99	0.09	10.00	0.028	3.019	0.01
15	18:44		1.020						
16	20:54		0.909						
17	23:08	1.01	1.006	1.00	27.74	10.00	4.447	1.603	2.77
18	2:46		0.322						
19	3:40		0.426						
20	2:08		0.242						
21	2:06		0.244						
22	7:24	1.03	0.860	1.00	0.79	10.00	0.115	1.457	0.08
23	8:08		0.946						
24	5:00		0.581						
25	6:50	1.04	0.795	1.01	0.40	10.00	0.102	2.528	0.04
26	5:32	1.04	0.643	1.01	115.66	10.00	14.545	1.258	11.57
27	6:48		0.791						
28	10:04		1.171						
29	8:08		0.946						
30	10:26		1.213						
31	7:54		0.919						
32	6:16	1.02	0.729	0.99	185.37	10.00	10.723	0.578	18.54
33	12:28		0.679						
34	12:50		0.699						
35	15:52	1.02	0.864	1.00	22.79	10.00	3.119	1.368	2.28
36	11:20	1.01	1.318	0.99	0.43	10.00	0.091	2.135	0.04
37	15:30	1.02	0.844	1.00	21.40	10.00	1.173	0.548	2.14
38	18:22	1.01	1.000	1.00	6.15	50.00	0.042	0.342	0.12
39	11:34	1.02	0.630	1.00	0.40	10.00	0.018	0.447	0.04
40	15:28	1.02	0.842	1.00	7.42	20.00	0.003	0.008	0.37
41	6:16		0.341						
42	14:58		0.815						
43	16:12		0.882						
44	21:58		0.955						
45	20:52		0.907						
46	19:02	1.01	0.828	1.00	0.27	10.00	0.037	1.364	0.03
47	16:10		0.880						
48	17:00		0.926						
49	18:52		1.027						
50	24:50	1.01	1.080	1.00	0.97	10.00	0.306	3.142	0.10

45185

Quantitation Report File: 45185

Data: 45185.TI

11/23/87 23:15:00

Sample: A711040-02 MATRIX SPIKE DUP.

Conds.: 8' X 2MM ID 1%SP1000 36(2.5) TO 220 @8C/MIN

Formula:

Instrument: 5100

Weight: 0.001

Submitted by: WESTON

Analyst: JAP

Acct. No.: P&T

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

Resp. fac. from average of whole .RL

No	Name
51	C160 1,1,2-TRICHLOROETHANE
52	C250 O&P-XYLENE
53	C245 STYRENE
54	C161 1,2,3-TRICHLOROPROPANE
55	C210 2-HEXANONE
56	C226 TRANS-1,4-DICHLORO-2-BUTENE
57	C144 1,2-DIBROMO-3-CHLOROPROPANE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	NOT FOUND								
52	91	862	28:44	3	1.233	A BV	143.	0.086 PPB	0.01
53	NOT FOUND								
54	NOT FOUND								
55	NOT FOUND								
56	NOT FOUND								
57	NOT FOUND								

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
51	16:14		0.884						
52	28:20	1.01	1.232	1.00	0.09	20.00	0.010	2.335	0.00
53	27:32		1.197						
54	20:38		1.123						
55	20:32		2.388						
56	21:10		0.920						
57	25:14		1.097						

ARI02914

E-230

Response list: Input file: 46, 18; Output file: 46, 18

Compound: C060 CHLOROFORM (CCC)
Ref. Comp (46: 14): C101 BROMOCHLOROMETHANE (INTERNAL STANDARD)
Quantitation mass: 83 Quant. Mass (Ref. Comp.): 130

No.	Date	Time	Area	Area(R)	Amnt (PPB)	Amnt(R) (PPB)	Resp
1	12/ 8/88	4:06	594705.	47930.	200.000	50.000	3.102
2	12/ 8/88	3:23	262371.	47345.	100.000	50.000	2.771
3	12/ 8/88	2:39	130796.	46935.	50.000	50.000	2.787
4	12/ 8/88	1:55	54385.	43936.	20.000	50.000	3.095
5	12/ 8/88	1:11	26363.	50398.	10.000	50.000	2.615

1201

Response list; Input file: 46, 20 ; Output file: 46, 20

Compound: C110 METHYL ETHYL KETONE (MEK)
Ref. Comp (46: 14): C101 BROMOCHLOROMETHANE (INTERNAL STANDARD)
Quantitation mass: 43 Quant. Mass (Ref. Comp.): 130

No.	Date	Time	Area	Area(R)	Amnt (PPB)	Amnt(R) (PPB)	Resp
1	12/ 8/88	4:06	24255.	47930.	200.000	50.000	0.127
2	12/ 8/88	3:23	11553.	47345.	100.000	50.000	0.122
3	12/ 8/88	2:39	4394.	46935.	50.000	50.000	0.094
4	12/ 8/88	1:55	1523.	43936.	20.000	50.000	0.087
5	12/ 8/88	1:11	489.	50398.	10.000	50.000	0.049

AR102916

Response list, Input file: 46, 21 ; Output file: 46, 21

Compound: CS15 DICHLOROETHANE-D4 (SURROGATE)
Ref. Comp (46, 14). C101 BROMOCHLOROMETHANE (INTERNAL STANDARD)
Quantitation mass: 65 Quant. Mass (Ref. Comp.): 130

No.	Date	Time	Area	Area(R)	Amnt (PPB)	Amnt(R) (PPB)	Resp
1	12/ 8/88	4:06	80329.	47930.	50.000	50.000	1.676
2	12/ 8/88	3:23	67758.	47345.	50.000	50.000	1.431
3	12/ 8/88	2:39	69430.	46935.	50.000	50.000	1.479
4	12/ 8/88	1:55	63812.	43936.	50.000	50.000	1.452
5	12/ 8/88	1:11	66460.	50398.	50.000	50.000	1.319

AR102917

E-230

Compound: C065 1,2-DICHLOROETHANE
Ref. Comp (46: 14): C101 BROMOCHLOROMETHANE (INTERNAL STANDARD)
Quantitation mass: 62 Quant. Mass (Ref. Comp.): 130

No	Date	Time	Area	Area(R)	Amnt (PPB)	Amnt(R) (PPB)	Resp
1	12/ 8/88	4:06	389790	47930.	200.000	50.000	2.033
2	12/ 8/88	3:23	176444.	47345.	100.000	50.000	1.863
3	12/ 8/88	2:39	88070.	46935.	50.000	50.000	1.876
4	12/ 8/88	1:55	34747.	43936.	20.000	50.000	1.977
5	12/ 8/88	1:11	17684.	50398.	10.000	50.000	1.754

AR102918

No.	Date	Time	Area	Area(R)	Amnt (PPB)	Amnt(R) (PPB)	Resp
1	12/ 8/88	4:06	287194.	177878.	200.000	50.000	0.404
2	12/ 8/88	3:23	125560.	148795.	100.000	50.000	0.422
3	12/ 8/88	2:39	68678.	146902.	50.000	50.000	0.468
4	12/ 8/88	1:55	27769.	139771.	20.000	50.000	0.497
5	12/ 8/88	1:11	13830.	150509.	10.000	50.000	0.459

AR102919

response list; Input file: 46, 31 ; Output file: 46, 31

Compound: C140 1,2-DICHLOROPROPANE (CCC)
Reference Comp (46: 40): C110 1,4-DIFLUOROBENZENE (INTERNAL STANDARD)
Reference Citation mass: 63 Quant. Mass (Ref. Comp.): 114

No.	Date	Time	Area	Area(R)	Amnt (PPB)	Amnt(R) (PPB)	Resp
1	12/ 8/88	4:06	285772.	177878.	200.000	50.000	0.402
2	12/ 8/88	3:23	101559.	148795.	100.000	50.000	0.341
3	12/ 8/88	2:39	54799.	146902.	50.000	50.000	0.373
4	12/ 8/88	1:55	22194.	139771.	20.000	50.000	0.397
5	12/ 8/88	1:11	11236.	150509.	10.000	50.000	0.373

ARI02920

1090

ponse list; Input file: 46, 32 ; Output file: 46, 32

pr nd: C145 TRANS-1,3-DICHLOROPROPENE

up (46: 40): CI10 1,4-DIFLUOROBENZENE (INTERNAL STANDARD)

ation mass: 75 Quant. Mass (Ref. Comp.): 114

Date	Time	Area	Area(R)	Amnt (PPB)	Amnt(R) (PPB)	Resp
12/ 8/88	4:06	368974.	177878.	200.000	50.000	0.519
12/ 8/88	3:23	141413.	148795.	100.000	50.000	0.475
12/ 8/88	2:39	71257.	146902.	50.000	50.000	0.485
12/ 8/88	1:55	29256.	139771.	20.000	50.000	0.523
12/ 8/88	1:11	13982.	150509.	10.000	50.000	0.464

AR102921

E-237

Response list; Input file: 46, 33 ; Output file: 46, 33

Sample: C150 TRICHLOROETHYLENE
Component (46: 40): C110 1,4-DIFLUOROBENZENE (INTERNAL STANDARD)
Retention mass: 130 Quant. Mass (Ref. Comp.): 114

No.	Date	Time	Area	Area(R)	Amnt (PPB)	Amnt(R) (PPB)	Resp
1	12/ 8/88	4:06	401815.	177878.	200.000	50.000	0.565
2	12/ 8/88	3:23	157223.	148795.	100.000	50.000	0.528
3	12/ 8/88	2:37	81924.	146902.	50.000	50.000	0.558
4	12/ 8/88	1:55	33960.	139771.	20.000	50.000	0.607
5	12/ 8/88	1:11	18341.	150509.	10.000	50.000	0.609

ARI02922

V 500

response list; Input file: 46, 34 ; Output file: 46, 34

mp ind: C165 BENZENE

mp (46: 40): C110 1,4-DIFLUOROBENZENE (INTERNAL STANDARD)

initiation mass: 78 Quant. Mass (Ref. Comp.): 114

o.	Date	Time	Area	Area(R)	Amnt (PPB)	Amnt(R) (PPB)	Resp
1	12/ 8/88	4:06	679766.	177878.	200.000	50.000	0.955
2	12/ 8/88	3:23	265761.	148795.	100.000	50.000	0.893
3	12/ 8/88	2:39	131161.	146902.	50.000	50.000	0.893
4	12/ 8/88	1:55	56915.	139771.	20.000	50.000	1.018
5	12/ 8/88	1:11	28305.	150509.	10.000	50.000	0.940

AR102923

6251

Response list; Input file: 46, 35 ; Output file: 46, 35

Compound: C155 CHLORODIBROMOMETHANE
f. Comp (46: 40). CI10 1,4-DIFLUOROBENZENE (INTERNAL STANDARD)
Quantitation mass. 127 Quant. Mass (Ref. Comp.): 114

No.	Date	Time	Area	Area(R)	Amnt (PPB)	Amnt(R) (PPB)	Resp
1	12/ 8/88	4:06	290389.	177878.	200.000	50.000	0.535
2	12/ 8/88	3:23	162923.	148795.	100.000	50.000	0.547
3	12/ 8/88	2:39	85332.	146902.	50.000	50.000	0.581
4	12/ 8/88	1:55	34545.	139771.	20.000	50.000	0.618
5	12/ 8/88	1:11	16907.	150509.	10.000	50.000	0.562

AR102924

4 270

Response list: Input file: 46, 36 ; Output file: 46, 36

Compound: C143 CIS-1,3-DICHLOROPROPENE
Reference mass: 75 Quant. Mass (Ref Comp.): 114
Reference mass: C110 1,4-DIFLUOROBENZENE (INTERNAL STANDARD)

Peak	Date	Time	Area	Area(R)	Amnt (PPB)	Amnt(R) (PPB)	Resp
1	12/8/88	4:06	1777155	177878	200.000	50.000	0.671
2	12/8/88	3:23	175486	148795	100.000	50.000	0.593
3	12/8/88	2:39	52010	145902	50.000	50.000	0.626
4	12/8/88	1:55	39450	139771	20.000	50.000	0.688
5	12/8/88	1:11	19458	150509	10.000	50.000	0.646

AR102925

6271

Response list: Input file: 46, 37, Output file: 46, 37

Int. Std. C160 1,1,2-TRICHLOROETHANE
Comp (46: 10) C110 1,4-DIFLUOROBENZENE (INTERNAL STANDARD)
Calculation mass: 97 Quant. Mass (Ref Comp.): 114

No	Date	Time	Area	Area(R)	Amnt (PPB)	Amnt(R) (PPB)	Resp
1	12/ 8/88	4:06	279115	177878.	200.000	50.000	0.282
2	12/ 8/88	3:20	1403022.	148795.	100.000	50.000	0.366
3	12/ 8/88	2:39	50664	146902.	50.000	50.000	0.413
4	12/ 8/88	1:55	24648.	139771.	20.000	50.000	0.439
5	12/ 8/88	1:11	12074.	150509.	10.000	50.000	0.401

ARI02926

2917

Response list: Input file: 46, 38 ; Output file: 46, 38

Method: C066 1,2-DIBROMOETHANE
Sample (46, 40): CI10 1,4-DIFLUOROBENZENE (INTERNAL STANDARD)
Molecular mass: 107 Quant. Mass (Ref. Comp.): 114

No.	Date	Time	Area	Area(R)	Amnt (PPB)	Amnt(R) (PPB)	Resp
1	12/ 8/88	4: 06	382490.	177878.	200.000	50.000	0.538
2	12/ 8/88	3: 23	149653.	148795.	100.000	50.000	0.503
3	12/ 8/88	2: 39	83285.	146902.	50.000	50.000	0.567
4	12/ 8/88	1: 55	32600.	139771.	20.000	50.000	0.583
5	12/ 8/88	1: 11	16813.	150509.	10.000	50.000	0.559

AR102927

V. 073

response list; Input File: 46, 39 ; Output file: 46, 39

o und: C076 METHYL METHACRYLATE

e Comp (46: 40): CI10 1,4-DIFLUOROBENZENE (INTERNAL STANDARD)

quantitation mass: 69 Quant. Mass (Ref. Comp.): 114

No.	Date	Time	Area	Area(R)	Amnt (PPB)	Amnt(R) (PPB)	Resp
1	12/ 8/88	4:06	903641.	177878.	1000.000	50.000	0.255
2	12/ 8/88	3:23	449883.	148795.	500.000	50.000	0.302
3	12/ 8/88	2:39	308621.	146902.	250.000	50.000	0.420
4	12/ 8/88	1:55	105169.	139771.	100.000	50.000	0.376
5	12/ 8/88	1:11	36646.	150509.	50.000	50.000	0.243

AR102928

5874

ponse list; Input file: 46, 40 ; Output file: 46, 40

found: CI10 1,4-DIFLUOROBENZENE (INTERNAL STANDARD)
p (46: 40): CI10 1,4-DIFLUOROBENZENE (INTERNAL STANDARD)
ation mass: 114 Quant. Mass (Ref. Comp.): 114

Date	Time	Area	Area(R)	Amnt (PPB)	Amnt(R) (PPB)	Resp
12/ 8/88	4:06	177878.	177878.	50.000	50.000	1.000
12/ 8/88	3:23	148795.	148795.	50.000	50.000	1.000
12/ 8/88	2:39	146902.	146902.	50.000	50.000	1.000
12/ 8/88	1:55	139771.	139771.	50.000	50.000	1.000
12/ 8/88	1:11	150509.	150509.	50.000	50.000	1.000

AR102929

E-275

Response list; Input file: 46, 41 ; Output file: 46, 41

Sample: C180 TRIBROMOMETHANE (BROMOFORM)
Reference: (46: 40): C110 1,4-DIFLUOROBENZENE (INTERNAL STANDARD)
Molecular mass: 173 Quant. Mass (Ref. Comp.): 114

No.	Date	Time	Area	Area(R)	Amnt (PPB)	Amnt(R) (PPB)	Resp
1	12/ 8/88	4:06	321984.	177878.	200.000	50.000	0.453
2	12/ 8/88	3:23	138666.	148795.	100.000	50.000	0.466
3	12/ 8/88	2:39	78551.	146902.	50.000	50.000	0.535
4	12/ 8/88	1:55	29081.	139771.	20.000	50.000	0.520
5	12/ 8/88	1:11	14774.	150509.	10.000	50.000	0.491

AR102930

C-240

Response list; Input File 45, 42 ; Output File: 46, 42

Compound: C224 1,1,1,2-TETRACHLOROETHANE
Sample (46: 40): 0110 1,4-DIFLUOROBENZENE (INTERNAL STANDARD)
Molecular mass: 131 Quant. Mass (Ref. Comp.): 114

No.	Date	Time	Area	Area(R)	Amnt (PPB)	Amnt(R) (PPB)	Resp
1	12/ 8/88	4:06	391146.	177878.	200.000	50.000	0.550
2	12/ 8/88	3:23	157404	148795.	100.000	50.000	0.563
3	12/ 8/88	2:39	88829.	146902.	50.000	50.000	0.590
4	12/ 8/88	1:55	35176.	139771.	20.000	50.000	0.629
5	12/ 8/88	1:11	17704.	150509.	10.000	50.000	0.588

AR102931

E-247

Response list: Input File: 46, 43 ; Output File: 46, 43

Compound: C205 4-METHYL-2-PENTANONE (MIBK)

Reference (46, 49): C120 CHLOROBENZENE-D5 (INTERNAL STANDARD)

Retention mass: 43 Quant. Mass (Ref. Comp.): 82

	Date	Time	Area	Area(R)	Amnt (PPB)	Amnt(R) (PPB)	Resp
1	12/ 8/88	4:06	254903.	110708.	200.000	50.000	0.575
2	12/ 8/88	3:23	27744.	93491.	100.000	50.000	0.469
3	12/ 8/88	2:39	51164.	84419.	50.000	50.000	0.606
4	12/ 8/88	1:55	14771.	83992.	20.000	50.000	0.440
5	12/ 8/88	1:11	8211.	88868.	10.000	50.000	0.462

AR102932

1-270

Report list: Input file: 46, 44 ; Output file: 46, 44

Compound: C220 TETRACHLOROETHYLENE
Sample (46, 49): C130 CHLOROBENZENE-D5 (INTERNAL STANDARD)
Molecular mass: 166 Quant. Mass (Ref. Comp.): 82

No	Date	Time	Area	Area(R)	Amnt (PPB)	Amnt(R) (PPB)	Resp
1	12/ 8/88	4:06	593705.	110708.	200.000	50.000	1.341
2	12/ 8/88	3:23	271761.	93491.	100.000	50.000	1.453
3	12/ 8/88	2:39	146393.	84419.	50.000	50.000	1.740
4	12/ 8/88	1:55	62642.	83992.	20.000	50.000	1.865
5	12/ 8/88	1:11	30186.	88868.	10.000	50.000	1.698

AR102933

E-249

Response list; Input file: 45, 45 ; Output file 46, 45

Sample: C225 1,1,2,2-TETRACHLOROETHANE (SPCC)
Sample (46: 49): C120 CHLOROBENZENE-D5 (INTERNAL STANDARD)
Calibration mass: 83 Quant. Mass (Ref. Comp.): 82

	Date	Time	Area	Area(R)	Amnt (PPB)	Amnt(R) (PPB)	Resp
1	12/ 8/88	4:06	299780.	110708.	200.000	50.000	0.677
2	12/ 8/88	3:23	133683.	93491.	100.000	50.000	0.715
3	12/ 8/88	2:39	73555.	84419.	50.000	50.000	0.931
4	12/ 8/88	1:55	30019.	83792.	20.000	50.000	0.894
5	12/ 8/88	1:11	16001.	88868.	10.000	50.000	0.900

AR102934

V-230

Response list; Input file: 46, 46 ; Output file: 46, 46

Compound: CS05 TOLUENE-D8 (SURROGATE)
Reference (46: 49): C120 CHLOROBENZENE-D5 (INTERNAL STANDARD)
Retention mass: 98 Quant. Mass (Ref. Comp.): 82

No.	Date	Time	Area	Area(R)	Amnt (PPB)	Amnt(R) (PPB)	Resp
1	12/ 8/88	4:06	91507.	110708.	50.000	50.000	0.827
2	12/ 8/88	3:23	92547.	93491.	50.000	50.000	0.990
3	12/ 8/88	2:39	87830.	84419.	50.000	50.000	1.040
4	12/ 8/88	1:55	84690.	83992.	50.000	50.000	1.008
5	12/ 8/88	1:11	92869.	88868.	50.000	50.000	1.045

AR102935

E-251

Response list: Input file: 46, 47 ; Output file: 46, 47

Compound: C077 ETHYL METHACRYLATE

Retention time (min): 46: 49: CI20 CHLOROBENZENE-D5 (INTERNAL STANDARD)
Molecular weight: 69 Quant. Mass (Ref. Comp.): 82

Date	Time	Area	Area(R)	Amnt (PPB)	Amnt(R) (PPB)	Resp
12/ 8/88	4:06	1716100.	110708.	1000.000	50.000	0.865
12/ 8/88	3:23	748148.	93491.	500.000	50.000	0.800
12/ 8/88	2:39	258422.	84419.	250.000	50.000	0.612
12/ 8/88	1:55	88577.	83992.	100.000	50.000	0.527
12/ 8/88	1:11	64510.	88868.	50.000	50.000	0.726

ARI02936

E252

No Name
 48 C224 1, 1, 1, 2-TETRACHLOROETHANE
 49 C250 M-XYLENE
 50 C160 1, 1, 2-TRICHLOROETHANE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	130	261	8:42	1	1.000	A BB	33327.	50.000 PPB	4.52
2	114	553	18:36	2	1.000	A BB	89068.	50.000 PPB	4.52
3	82	693	23:06	3	1.000	A BB	58764.	50.000 PPB	4.52
4	65	339	11:18	1	1.299	A BB	49874.	50.850 PPB	4.60
5	98	657	21:54	3	0.948	A BB	57748.	50.034 PPB	4.52
6	95	802	26:44	3	1.157	A BB	93354.	56.301 PPB	5.09
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	91	663	22:06	3	0.957	A BB	2257.	0.906 PPB	0.08
12	91	747	24:54	3	1.078	A BB	3179.	0.814 PPB	0.07
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	112	696	23:12	3	1.004	A BB	165.	0.085 PPB	0.01
18	85	81	2:42	1	0.310	A BB	1241.	0.994 PPB	0.09
19	NOT FOUND								
20	44	61	2:02	1	0.234	A VB	4166.	17.183 PPB	1.55
21	NOT FOUND								
22	101	224	7:28	1	0.858	A BB	3450.	1.370 PPB	0.12
23	41	248	8:16	1	0.950	A BB	135.	0.097 PPB	0.01
24	NOT FOUND								
25	76	209	6:58	1	0.801	A BB	488.	0.215 PPB	0.02
26	84	169	5:38	1	0.648	A BB	648634.	623.493 PPB	56.35
27	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	NOT FOUND								
31	43	195	6:30	1	0.747	A BB	3091.	14.956 PPB	1.35
32	NOT FOUND								
33	NOT FOUND								
34	78	479	15:58	2	0.866	A BB	2579.	1.540 PPB	0.14
35	NOT FOUND								
36	130	466	15:32	2	0.843	A BB	2008.	1.966 PPB	0.18
37	69	553	18:26	2	1.000	A BB	3819.	6.709 PPB	0.61
38	93	349	11:38	2	0.631	A BB	493.	0.615 PPB	0.06
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	NOT FOUND								
44	166	628	20:56	3	0.906	A BB	602.	0.316 PPB	0.03
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								
49	91	747	24:54	3	1.078	A BB	3179.	0.814 PPB	0.07
50	NOT FOUND								

AR102937

E-253

No	Ret(L)	Ratio	RRF(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	8:50	0.98	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	18:36	0.99	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	23:18	0.99	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	11:28	0.99	1.298	1.00	50.85	50.00	1.000	1.000	1.00
5	22:06	0.99	0.948	1.00	50.03	50.00	1.341	1.319	1.02
6	26:58	0.99	1.157	1.00	50.00	50.00	1.046	1.045	1.00
7	2:56		0.332		50.00	50.00	1.744	1.549	1.13
8	8:22		0.947						
9	10:52		1.030						
10	14:54		0.801						
11	22:14	0.99	0.954	1.00	0.91	10.00	0.187	2.065	0.09
12	25:06	0.99	1.077	1.00	0.81	10.00	0.269	3.308	0.08
13	1:16		0.142						
14	9:34		1.053						
15	18:56		1.018						
16	21:08		0.907						
17	23:22	0.99	1.003	1.00	0.08	10.00	0.014	1.676	0.01
18	2:52	0.94	0.325	0.96	0.99	10.00	0.164	1.645	0.10
19	3:50		0.434						
20	2:08	0.95	0.247	0.95	17.18	50.00	0.055	0.161	0.34
21	2:12		0.247						
22	7:38	0.98	0.864	0.99	1.37	10.00	0.470	3.429	0.14
23	8:22	0.99	0.947	1.00	0.10	10.00	0.019	1.922	0.01
24	5:14		0.592						
25	7:06	0.98	0.304	1.00	0.21	10.00	0.068	3.163	0.02
26	5:46	0.98	0.653	0.99	623.49	10.00	105.311	1.689	62.35
27	7:08		0.308						
28	10:16		1.162						
29	6:32		0.757						
30	8:10		0.925						
31	6:32	0.99	0.740	1.01	14.96	10.00	0.721	0.482	1.50
32	12:42		0.683						
33	13:02		0.701						
34	16:06	0.99	0.866	1.00	1.54	10.00	0.145	0.940	0.15
35	11:34		1.309						
36	15:42	0.99	0.844	1.00	1.97	10.00	0.120	0.609	0.20
37	18:34	0.99	0.798	1.00	6.71	50.00	0.033	0.243	0.13
38	11:46	0.99	0.633	1.00	0.62	10.00	0.028	0.459	0.06
39	15:42		0.344						
40	6:32		0.351						
41	15:10		0.815						
42	16:24		0.882						
43	22:12		0.953						
44	21:06	0.99	0.906	1.00	0.32	10.00	0.054	1.698	0.03
45	19:16		0.827						
46	16:22		0.880						
47	17:14		0.927						
48	19:04		1.025						
49	25:06	0.99	1.077	1.00	0.81	10.00	0.269	3.308	0.08
50	16:24		0.882						

AR102938

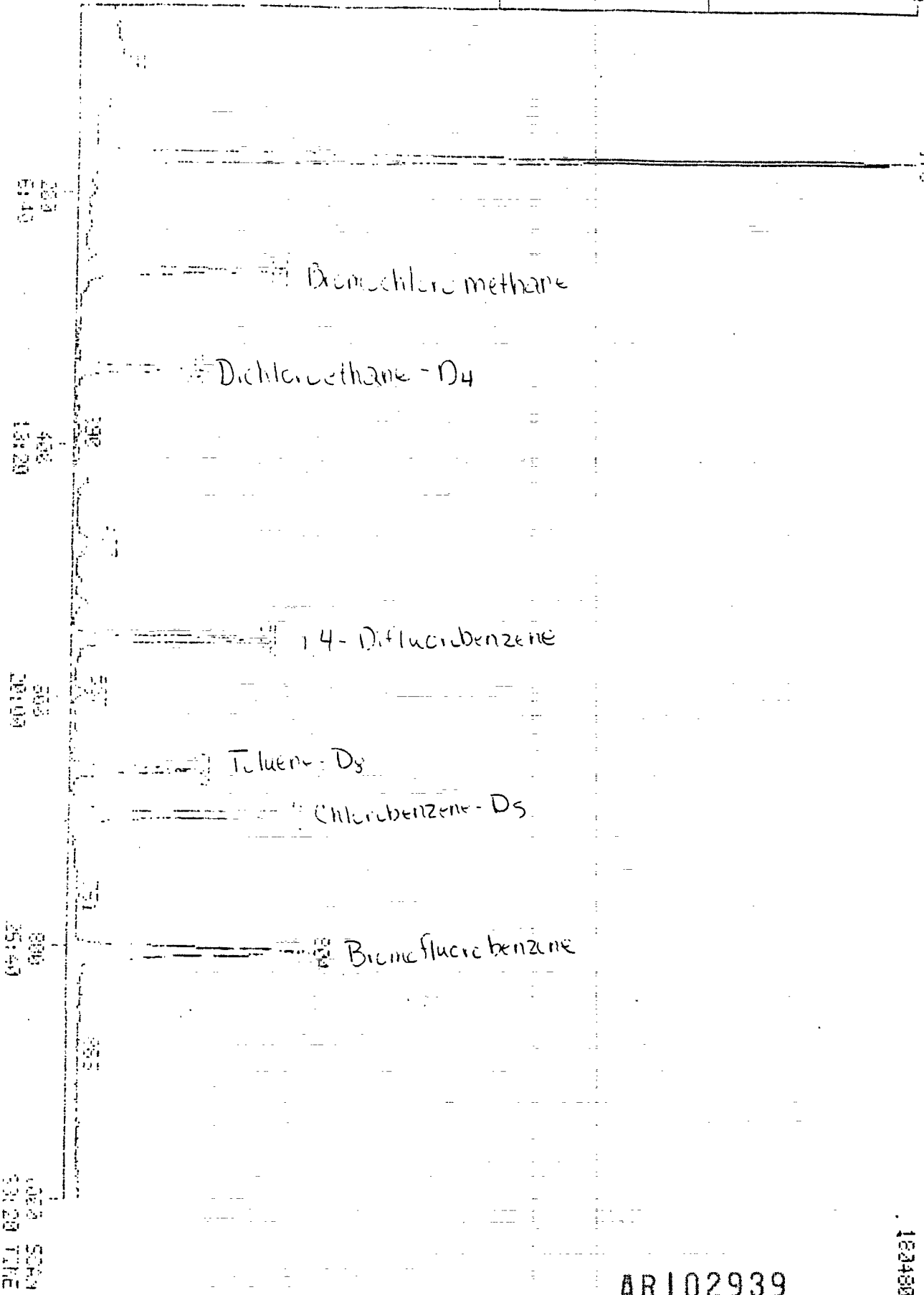
E-254

100.0

RIC
12/10/87 16:37:06
SAMPLE: A711041-07 (100 UL)
COND.: 81 X 2MM ID 12SP1000 36(2.5) TO 220 08C/MIN
RANGE: 5 1.1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 45319 #1
CALL: 45319 #2
SCANS 50 TO 1000

102480.



ARI02939

1024
30:29 TIME

E-255

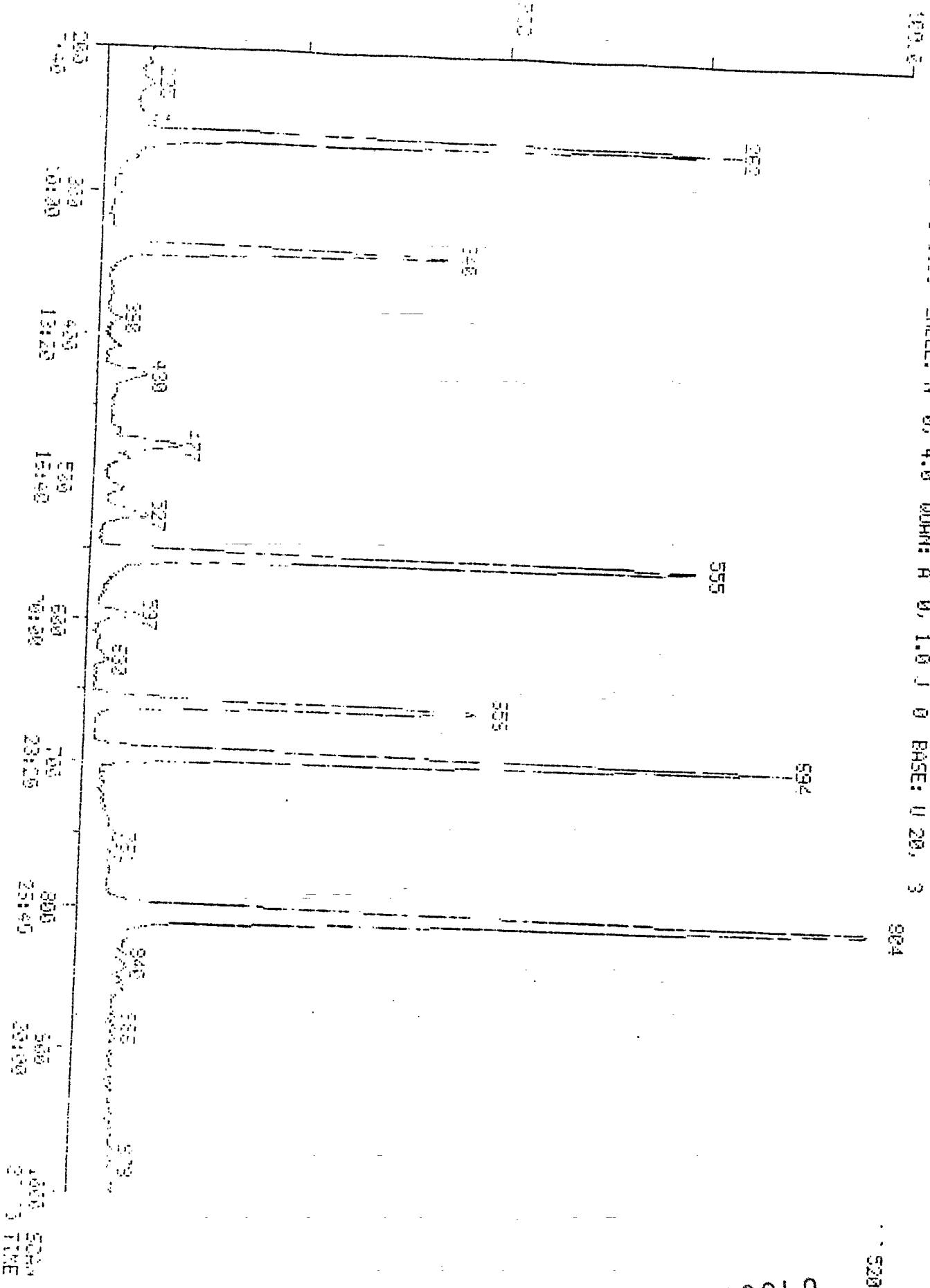
RTD
12-10-87 15:57:00
SAMPLE: 871041-07 (100 UL)
CONDS.: 8' X 2MM ID 12SP1000 36(2.5) TO 220 @9C/MIN
PULSE: 5 1.1000 LABEL: N 0, 4.0 QUANT: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 45319 #1
CALL: 45319 #2

SCANS 200 TO 1000

924

52095.



ARI02940

V 256

Quantitation Report File: 45019

Sta. 45019 FI

12/10/87 16:37:00

Sample: A711041-07 (100 UL)

Conds: 31 X 2MM ID 1XSP1000 26(2.5) TO 220 @80/MIN

Formula: Instrument: 5100

Submitted by: WESTON

Analyst: JAP

Weight: 0.000

Acct. No.: P&T

AMOUNT=AREA * RES FACT / (REF AREA * RESP FACT)

Resp fac from average of whole RI

- No Name
- 1 CI01 BROMOCHLOROMETHANE (INTERNAL STANDARD)
- 2 CI10 1,4-DIFLUOROBENZENE (INTERNAL STANDARD)
- 3 CI20 CHLOROBENZENE-D5 (INTERNAL STANDARD)
- 4 CS15 DICHLOROETHANE-D4 (SURROGATE)
- 5 CS05 TOLUENE-D8 (SURROGATE)
- 6 CS10 BROMOFLUOROBENZENE (SURROGATE)
- 7 C070 VINYL CHLORIDE (CCC)
- 8 C045 1,1-DICHLOROETHENE (CCC)
- 9 C060 CHLOROFORM (CCC)
- 10 C140 1,2-DICHLOROPROPANE (CCC)
- 11 C230 TOLUENE (CCC)
- 12 C240 ETHYL BENZENE (CCC)
- 13 C010 CHLOROMETHANE (SPCC)
- 14 C050 1,1-DICHLOROETHANE (SPCC)
- 15 C180 TRIBROMOMETHANE (BROMOFORM)
- 16 C225 1,1,2,2-TETRACHLOROETHANE (SPCC)
- 17 C235 CHLOROBENZENE (SPCC)
- 18 C121 DICHLOROFLUOROMETHANE
- 19 C025 CHLOROETHANE
- 20 C029 ETHYLENE OXIDE
- 21 C015 BROMOMETHANE
- 22 C122 TRICHLOROFLUOROMETHANE
- 23 C181 ACETONITRILE
- 24 C016 IODOMETHANE
- 25 C040 CARBON DISULFIDE
- 26 C030 METHYLENE CHLORIDE
- 27 C183 ACRYLONITRILE
- 28 C055 TRANS-1,2-DICHLOROETHENE
- 29 C132 ACRYLEIN
- 30 C179 PROPANENITRILE
- 31 C035 ACETONE
- 32 C115 1,1,1-TRICHLOROETHANE
- 33 C120 CARBON TETRACHLORIDE
- 34 C155 BENZENE
- 35 C055 1,2-DICHLOROETHANE
- 36 C150 TRICHLOROETHYLENE
- 37 C075 METHYL METHACRYLATE
- 38 C031 DIGBROMOMETHANE
- 39 C130 BROMODICHLOROMETHANE
- 40 C125 VINYL ACETATE
- 41 C143 CIS-1,3-DICHLOROPROPENE
- 42 C145 TRANS-1,3-DICHLOROPROPENE
- 43 C077 ETHYL METHACRYLATE
- 44 C220 TETRACHLOROETHYLENE
- 45 C205 4-METHYL-2-PENTANONE (MIBK)
- 46 C155 CHLORODIBROMOMETHANE
- 47 C066 1,2-DIBROMOETHANE

AR102941

38 0224 1, 1, 1, 2-TETRACHLOROETHANE
 49 0250 M-XYLENE
 50 0160 1, 1, 2-TRICHLOROETHANE

No	RT	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	120	262	8:44	1	1.000	A BB	31590.	50.000 PPB		
2	114	755	18:30	2	1.000	A BB	82750.	50.000 PPB	6.22	
3	62	694	23:03	3	1.000	A BB	48493.	50.000 PPB	6.22	
4	50	340	11:20	1	1.098	A BB	45924.	49.397 PPB	6.22	
5	75	637	21:58	3	0.750	A BB	49809	52.296 PPB	6.50	
6	93	804	26:48	2	1.159	A BB	76835.	56.153 PPB	6.98	
7	52	35	2:50	1	0.324	A BB	117.	0.149 PPB	0.02	
8	51	247	3:14	1	0.343	A BB	348.	0.198 PPB	0.02	
9	83	323	10:46	1	1.233	A BB	293.	0.161 PPB	0.02	
10	NOT FOUND									
11	91	564	22:08	3	0.757	A BB	1152.	0.561 PPB	0.07	
12	91	749	24:58	3	1.079	A BB	923.	0.286 PPB	0.04	
13	NOT FOUND									
14	NOT FOUND									
15	NOT FOUND									
16	NOT FOUND									
17	112	599	23:18	3	1.007	A*BB	191.	0.119 PPB	0.01	
18	95	83	2:46	1	0.317	A BB	1498.	1.266 PPB	0.16	
19	NOT FOUND									
20	44	52	1:44	1	0.198	A BV	19059.	82.926 PPB	10.31	
21	NOT FOUND									
22	101	224	7:58	1	0.355	A BB	2025.	0.948 PPB	0.11	
23	41	249	2:18	1	0.950	A VV	595	0.450 PPB	0.06	
24	NOT FOUND									
25	75	209	6:58	1	0.792	A BB	586.	0.318 PPB	0.04	
26	84	170	3:40	1	0.649	A BB	186308.	198.934 PPB	23.50	
27	NOT FOUND									
28	61	206	10:12	1	1.168	A BB	68.	0.062 PPB	0.01	
29	NOT FOUND									
30	NOT FOUND									
31	NOT FOUND									
32	77	278	12:36	2	0.681	A BB	77.	0.058 PPB	0.01	
33	117	385	13:32	2	0.695	A BB	256.	0.185 PPB	0.02	
34	78	190	16:00	2	0.365	A BB	1025.	0.659 PPB	0.08	
35	NOT FOUND									
36	30	457	15:24	2	0.841	A BB	585.	0.616 PPB	0.08	
37	69	555	18:30	2	1.000	A BB	3537.	6.689 PPB	0.83	
38	93	350	11:40	2	0.631	A BB	430.	0.578 PPB	0.07	
39	NOT FOUND									
40	NOT FOUND									
41	NOT FOUND									
42	NOT FOUND									
43	69	361	12:02	3	0.952	A VB	454.	0.663 PPB	0.08	
44	103	530	21:00	2	0.908	A BB	634.	0.404 PPB	0.05	
45	NOT FOUND									
46	NOT FOUND									
47	NOT FOUND									
48	NOT FOUND									
49	91	749	24:58	3	1.079	A BB	923.	0.286 PPB	0.04	
50	NOT FOUND									

450

No	Ratio	Ratio	Ratio	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	3:50	0.99	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	18:56	0.99	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	23:18	0.99	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	11:33	0.99	1.298	1.00	49.40	50.00	1.303	1.319	0.99
5	22:55	0.97	0.748	1.00	52.30	50.00	1.093	1.045	1.05
6	25:56	0.99	1.157	1.00	56.15	50.00	1.739	1.549	1.12
7	0:41	0.97	0.322	0.78	0.15	10.00	0.016	1.083	0.01
8	9:22	0.99	0.247	1.00	0.20	10.00	0.051	2.554	0.02
9	10:52	0.97	1.230	1.00	0.16	10.00	0.042	2.615	0.02
10	14:54		0.501						
11	22:14	1.00	0.754	1.00	0.56	10.00	0.116	2.065	0.06
12	23:06	0.99	1.077	1.00	0.29	10.00	0.095	3.308	0.03
13	1:16		0.143						
14	9:34		1.083						
15	18:56		1.018						
16	21:08		0.702						
17	23:22	1.00	1.000	1.00	0.12	10.00	0.020	1.676	0.01
18	2:52	0.97	0.325	0.98	1.27	10.00	0.208	1.645	0.13
19	3:50		0.431						
20	2:08	0.31	0.247	0.30	82.93	50.00	0.267	0.161	1.66
21	2:12		0.249						
22	7:18	0.93	0.354	0.95	0.35	10.00	0.291	3.429	0.08
23	3:22	0.97	0.747	1.00	0.45	10.00	0.087	1.922	0.05
24	5:14		0.392						
25	7:05	0.95	0.304	0.95	0.32	10.00	0.101	3.163	0.03
26	5:45	0.98	0.553	0.99	158.93	10.00	31.912	1.689	18.89
27	7:08		0.808						
28	10:16	0.99	1.152	1.00	0.06	10.00	0.010	1.624	0.01
29	6:32		0.757						
30	8:10		0.920						
31	6:32		0.747						
32	12:42	0.99	0.553	1.00	0.06	10.00	0.005	0.792	0.01
33	12:02	0.99	0.701	0.99	0.19	10.00	0.016	0.843	0.02
34	15:06	0.99	0.856	1.00	0.66	10.00	0.062	0.940	0.07
35	11:04		1.079						
36	15:42	0.99	0.344	1.00	0.62	10.00	0.038	0.509	0.06
37	18:24	1.00	0.998	1.00	6.67	50.00	0.033	0.243	0.13
38	11:45	0.92	0.533	1.00	0.58	10.00	0.027	0.459	0.06
39	13:12		0.814						
40	6:02		0.251						
41	15:10		0.315						
42	16:24		0.882						
43	22:12	0.99	0.953	1.00	0.66	50.00	0.010	0.726	0.01
44	21:06	1.00	0.906	1.00	0.40	10.00	0.069	1.598	0.04
45	19:15		0.827						
46	16:12		0.380						
47	17:14		0.927						
48	19:04		1.025						
49	25:06	0.99	1.077	1.00	0.29	10.00	0.095	3.308	0.03
50	15:24		0.832						

457

Quantitation Report File: 45319

Date: 45319.FI

12/10/87 16:37.00

Sample: A711041-07 (100 UL)

Conds: 8' X 2MM ID 1%SP1000 35(2.5) TO 220 @90/MIN

Formula

Instrument: 5100

Weight: 0.000

Submitted by: WESTON

Analyst: JAP

Acct. No.: P&T

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

Resp. fac. from average of whole .RI

No	Name
51	0250 D&P -XYLENE
52	0245 STYRENE
53	C151 1,2,3-TRICHLOROPROPANE
54	C210 2-HEXANONE
55	C226 TRANS-1,4-DICHLORO-2-BUTENE
56	C144 1,2-DIBROMO-3-CHLOROPROPANE
57	C110 METHYL ETHYL KETONE (MEK)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	91	859	28:38	3	1.238	A VB	712.	0.259 PPB	0.03
52	104	932	27:44	3	1.199	A BB	348.	0.240 PPB	0.03
53	NOT FOUND								
54	43	619	20:38	1	2.353	A VV	391.	0.896 PPB	0.11
55	NOT FOUND								
56	NOT FOUND								
57	43	342	11:24	1	1.305	A BB	12594.	208.791 PPB	25.97

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
51	28:44	1.00	1.238	1.00	0.26	20.00	0.036	2.791	0.01
52	27:54	0.99	1.197	1.00	0.24	10.00	0.036	1.478	0.02
53	20:52		1.122						
54	20:46	0.99	2.351	1.00	0.90	10.00	0.064	0.709	0.09
55	21:24		0.913						
56	25:22		1.093						
57	10:38	1.07	1.305	1.00	208.79	10.00	1.014	0.049	20.88

AR102944

F-200

SAMPLE WORKSHEET FOR VOLATILES

CONTRACT NAME WESTON
CONTRACT NUMBER 325-001-01-01
RADIANT CONTACT RICHARDSON

SAMPLE DESCRIPTION

SAMPLE NO. (SAM) A711041-07A ANALYTE(S) _____
TYPE AQUEOUS SOLID ORGANIC LIQUID SORBENT
 OTHER _____

SAMPLE IDENTIFIER 6583
COMMENTS _____

SAMPLE PREPARATION

DATE EXTRACTED _____

AQUEOUS SAMPLES
_____ 5 mL OR _____ mL (SMP*) DILUTED TO 5 mL H2O; DF= _____

SOLID SAMPLES
2.11 g (SMPSZ) INTO 30.2 mL Methanol (EXTVOL)
_____ mL Methanol (SMP*) ADDED TO 5mL H2O FOR ANALYSIS DF= _____

SURROGATE SPIKE: _____ uL OF _____ ug/mL _____, LOT# _____
COMMENT: _____

DATE SUBMITTED 11-16-87 SUBMITTED BY E.E. RECEIVED BY gfp

SAMPLE ANALYSIS

FRN _____ DATE ANALYZED _____ ANALYST _____
INTERNAL STANDARD V1-IS OTHER _____
AMOUNT ADDED ng _____ 100 _____ 250 _____ OTHER _____
COMMENT: _____

$$C_{ppm} = \frac{A_n \times CIS \text{ (ppm)} \times DF}{RF} \times \frac{EXTVOL}{SMPSZ} \quad DF = \frac{5}{SMP^*}$$

SURROGATE CONCENTRATION (Cs): _____ ppm

$$C_s = \frac{ug \text{ SPIKED}}{SMP^*} \times \frac{EXTVOL}{SMPSZ}$$

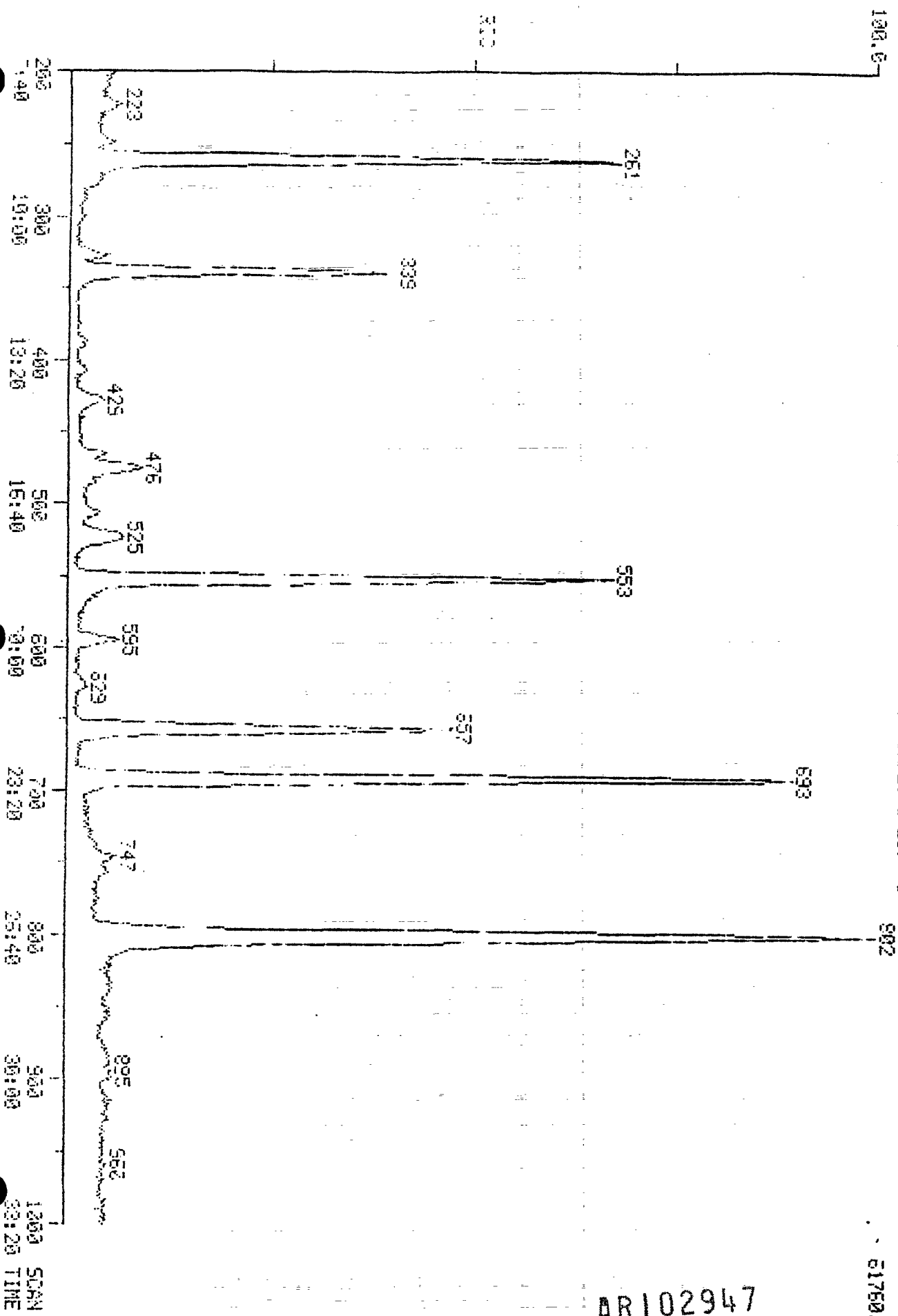
WVO.JSF

AR102945

V-262

PIC
 12/10/87 17:21:00
 SAMPLE: 4711041-08 (100 UL)
 COND.S.: 8' X 2MM ID 125P1000 36(2.5) TO 220 @8C/MIN
 RANGE: G 1.1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 45320 #1
 CALL: 45320 #2
 SCANS 200 TO 1000



61750.

ARI02947

263

Quantitation Report File 45320

sta: 45320 T1

12/10/87 17:21:00

Sample: 4711041-08 (100 UL)

Conds: 3' X 2MM ID 1%SP1000 35(2.5) TD 220 @80/MIN

Formula Instrument: 5100

Submitted by WESTON

Analyst: JAP

Weight: 0.000

Acct. No P&T

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

Resp. fac. from average of whole RI

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL STANDARD)
2	CI10 1,4-DIFLUOROBENZENE (INTERNAL STANDARD)
3	CI20 CHLOROBENZENE-D5 (INTERNAL STANDARD)
4	CS15 DICHLOROETHANE-D4 (SURROGATE)
5	CS05 TOLUENE-D8 (SURROGATE)
6	CS10 BROMOFLUOROBENZENE (SURROGATE)
7	CO20 VINYL CHLORIDE (CCC)
8	CO45 1,1-DICHLOROETHENE (CCC)
9	CO60 CHLOROFORM (CCC)
10	CI40 1,2-DICHLOROPROPANE (CCC)
11	C200 TOLUENE (CCC)
12	C240 ETHYL BENZENE (CCC)
13	CO10 CHLOROMETHANE (SPCC)
14	CO50 1,1-DICHLOROETHANE (SPCC)
15	CI80 TRIBROMOMETHANE (BROMOFORM)
16	C225 1,1,2,2-TETRACHLOROETHANE (SPCC)
17	C235 CHLOROBENZENE (SPCC)
18	CI21 DICHLOROFLUOROMETHANE
19	CO25 CHLOROETHANE
20	CO29 ETHYLENE OXIDE
21	CO15 BROMOMETHANE
22	CI22 TRICHLOROFLUOROMETHANE
23	CI31 ACETONITRILE
24	CO16 IODOMETHANE
25	CO40 CARBON DISULFIDE
26	CO30 METHYLENE CHLORIDE
27	CI83 ACRYLONITRILE
28	CO55 TRANS-1,2-DICHLOROETHENE
29	CI82 ACROLEIN
30	CI79 PROPANENITRILE
31	CO35 ACETONE
32	CI15 1,1,1-TRICHLOROETHANE
33	CI20 CARBON TETRACHLORIDE
34	CI45 BENZENE
35	CO65 1,2-DICHLOROETHANE
36	CI50 TRICHLOROETHYLENE
37	CO76 METHYL METHACRYLATE
38	CO31 DIBROMOMETHANE
39	CI30 BROMODICHLOROMETHANE
40	CI25 VINYL ACETATE
41	CI43 CIS-1,3-DICHLOROPROPENE
42	CI45 TRANS-1,3-DICHLOROPROPENE
43	CO77 ETHYL METHACRYLATE
44	C220 TETRACHLOROETHYLENE
45	CO25 4-METHYL-2-PENTANONE (MIBK)
46	CI55 CHLORODIBROMOMETHANE
47	CO66 1,2-DIBROMOETHANE

AR102948

E-207

SAMPLE WORKSHEET FOR VOLATILES

CONTRACT NAME WESTON
CONTRACT NUMBER 325-001-01-01
RADIAN CONTACT RICHARDSON

SAMPLE DESCRIPTION

SAMPLE NO. (SAM) A711041-06A ANALYTE(S) _____
TYPE [] AQUEOUS [] SOLID [] ORGANIC LIQUID [] SORBENT
[] OTHER _____

SAMPLE IDENTIFIER 6582
COMMENTS _____

SAMPLE PREPARATION

DATE EXTRACTED 11-13-87

AQUEOUS SAMPLES
_____ 5 mL OR _____ mL (SMP*) DILUTED TO 5 mL H2O; DF= _____

SOLID SAMPLES
2.28 g (SMPSZ) INTO 30.1 mL Methanol (EXTVOL)
_____ mL Methanol (SMP*) ADDED TO 5mL H2O FOR ANALYSIS DF= _____

SURROGATE SPIKE: _____ uL OF _____ ug/mL _____, LOT# _____
COMMENT: _____

DATE SUBMITTED 11-16-87 SUBMITTED BY EE RECEIVED BY JAP

SAMPLE ANALYSIS

FRN _____ DATE ANALYZED _____ ANALYST _____
INTERNAL STANDARD V1-IS OTHER _____
AMOUNT ADDED ng _____ 100 _____ 250 _____ OTHER _____
COMMENT: _____

$$C_{ppm} = \frac{A_n \times C_{IS} \text{ (ppm)} \times DF}{RF} \times \frac{EXTVOL}{SMPSZ} \quad DF = \frac{5}{SMP^*}$$

SURROGATE CONCENTRATION (Cs): _____ ppm

$$C_s = \frac{ug \text{ SPIKED}}{SMP^*} \times \frac{EXTVOL}{SMPSZ}$$

WVO.JSF

AR102949

E-265

Quantitation Report File: 45318

Data: 45318.TI

2/10/87 15:53.00

Sample: A711041-06 (100 UL)

Conds.: B' X 2MM ID 1XSP1000 36(2.5) TO 220 @80/MIN

Formula

Instrument: 5100

Weight: 0.000

Submitted by: WESTON

Analyst: JAP

Acct. No.: P&T

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

Resp. fac from average of whole LRL

No	Name
51	C250 D&P-XYLENE
52	C245 STYRENE
53	C161 1,2,3-TRICHLOROPROPANE
54	C210 2-HEXANONE
55	C226 TRANS-1,4-DICHLORO-2-BUTENE
56	C144 1,2-DIBROMO-3-CHLOROPROPANE
57	C110 METHYL ETHYL KETONE (MEK)

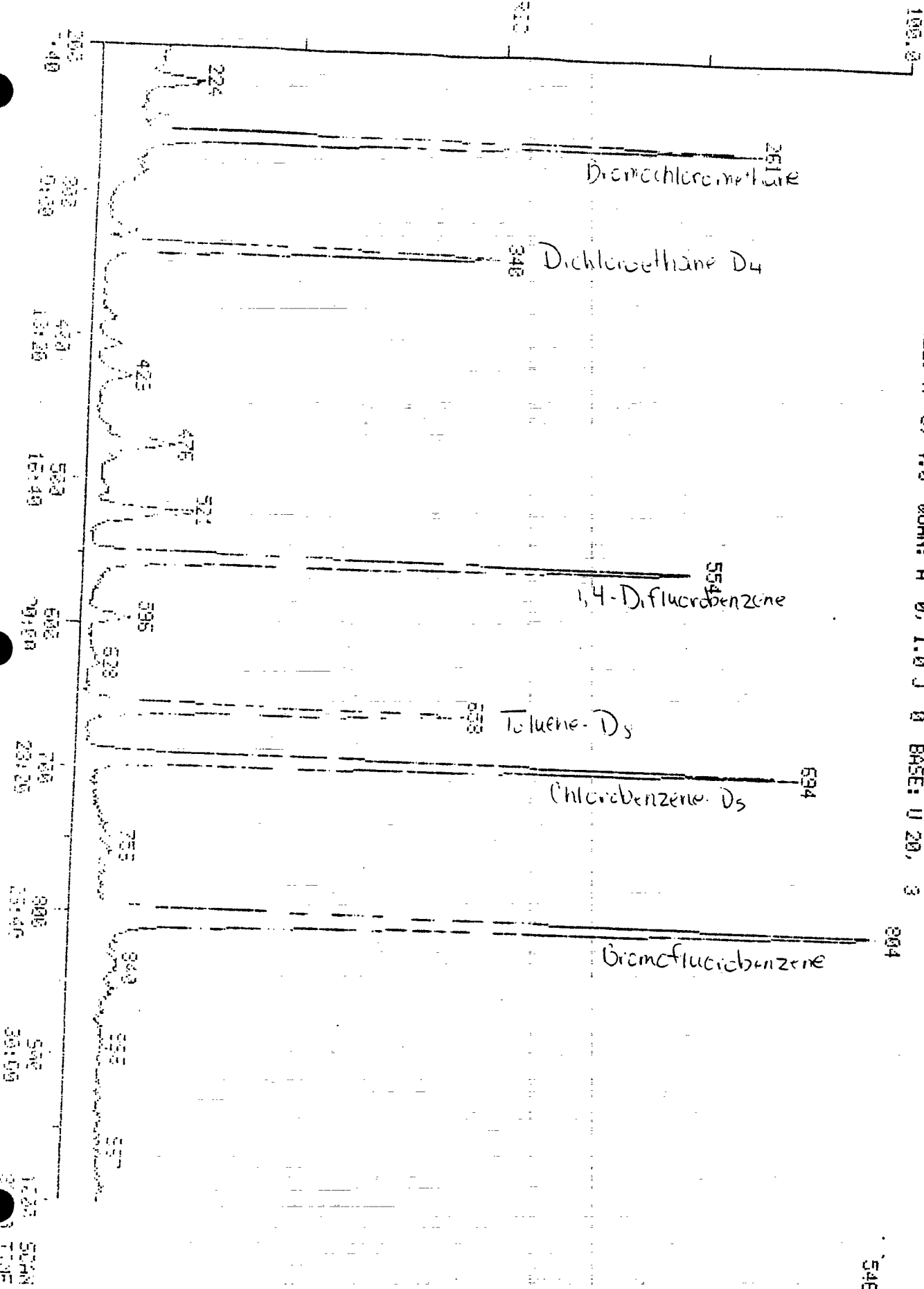
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	91	856	28:32	3	1.233	A BV	1486.	0.529 PPB	0.03
52	104	832	27:44	3	1.199	A BB	756.	0.511 PPB	0.03
53	75	520	20:40	2	1.119	A BB	355.	0.471 PPB	0.03
54	43	620	20:40	1	2.375	A VV	503.	1.011 PPB	0.06
55	NOT FOUND								
56	157	760	25:20	3	1.095	A BB	91.	0.342 PPB	0.02
57	43	341	11:22	1	1.307	A BB	13707.	199.248 PPB	11.44

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
51	28:44	0.99	1.233	1.00	0.53	20.00	0.074	2.791	0.03
52	27:54	0.99	1.197	1.00	0.51	10.00	0.077	1.498	0.05
53	20:52	0.99	1.122	1.00	0.47	10.00	0.020	0.435	0.05
54	20:46	1.00	2.351	1.01	1.01	10.00	0.072	0.709	0.10
55	21:24		0.918						
56	25:28	0.99	1.093	1.00	0.34	10.00	0.010	0.297	0.03
57	10:33	1.07	1.204	1.09	199.25	10.00	0.968	0.049	19.92

ARI02950

V266

PIC
 12/18/87 15:53:00
 SAMPLE: A711041-05 (100 UL)
 COND5.: 8' X 2MM ID 125P1000 36(2.5) TO 220 @8C/MIN
 RANGE: G 1.1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
 DATA: 45318 #1
 CALL: 45318 #2
 SCANS 200 TO 1000



ARI02951

54655.

267

Quantitation Report File: 45318

ata: 45318.TI

12/10/87 15:53:00

Sample: A711041-06 (100 UL)

Conds.: 8' X 2MM ID 1%SP1000 36(2.5) TO 220 @80C/MIN

Formula.

Instrument: 5100

Weight: 0.000

Submitted by: WESTON

Analyst: JAP

Acct. No.: P&T

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

Resp. fac. from average of whole .RL

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL STANDARD)
2	CI10 1,4-DIFLUOROBENZENE (INTERNAL STANDARD)
3	CI20 CHLOROBENZENE-D5 (INTERNAL STANDARD)
4	CS15 DICHLOROETHANE-D4 (SURROGATE)
5	CS05 TOLUENE-D8 (SURROGATE)
6	CS10 BROMOFLUOROBENZENE (SURROGATE)
7	CO20 VINYL CHLORIDE (CCC)
8	CO45 1,1-DICHLOROETHENE (CCC)
9	CO60 CHLOROFORM (CCC)
10	C140 1,2-DICHLOROPROPANE (CCC)
11	C230 TOLUENE (CCC)
12	C240 ETHYL BENZENE (CCC)
13	CO10 CHLORDMETHANE (SPCC)
14	CO50 1,1-DICHLOROETHANE (SPCC)
15	C180 TRIBROMOMETHANE (BROMOFORM)
16	C225 1,1,2,2-TETRACHLOROETHANE (SPCC)
17	C235 CHLOROBENZENE (SPCC)
18	C121 DICHLOROFLUOROMETHANE
19	CO25 CHLOROETHANE
20	CO29 ETHYLENE OXIDE
21	CO15 BROMOMETHANE
22	C122 TRICHLOROFLUOROMETHANE
23	C181 ACETONITRILE
24	CO16 IODOMETHANE
25	CO40 CARBON DISULFIDE
26	CO30 METHYLENE CHLORIDE
27	C183 ACRYLONITRILE
28	CO55 TRANS-1,2-DICHLOROETHENE
29	C182 ACROLEIN
30	C179 PROPANENITRILE
31	CO35 ACETONE
32	C115 1,1,1-TRICHLOROETHANE
33	C120 CARBON TETRACHLORIDE
34	C165 BENZENE
35	CO65 1,2-DICHLOROETHANE
36	C150 TRICHLOROETHYLENE
37	CO76 METHYL METHACRYLATE
38	CO31 DIBROMOMETHANE
39	C130 BROMODICHLOROMETHANE
40	C125 VINYL ACETATE
41	C143 CIS-1,3-DICHLOROPROPENE
42	C145 TRANS-1,3-DICHLOROPROPENE
43	CO77 ETHYL METHACRYLATE
44	C220 TETRACHLOROETHYLENE
45	C205 4-METHYL-2-PENTANONE (MIBK)
46	C155 CHLORODIBROMOMETHANE
47	CO66 1,2-DIBROMOETHANE

AR102952

V 048

No Name
 48 C224 1, 1, 1, 2-TETRACHLOROETHANE
 49 C250 M-XYLENE
 50 C160 1, 1, 2-TRICHLOROETHANE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	130	261	8:42	1	1.000	A BB	36026.	50.000 PPB	2.87
2	114	554	18:28	2	1.000	A BB	85062.	50.000 PPB	2.87
3	82	594	23:08	3	1.000	A BB	49509.	50.000 PPB	2.87
4	65	339	11:13	1	1.299	A BB	52543.	49.557 PPB	2.85
5	98	658	21:56	3	0.948	A BB	49157.	50.552 PPB	2.90
6	95	805	26:50	3	1.160	A BB	81466.	58.315 PPB	3.35
7	62	85	2:50	1	0.326	A BB	318.	0.354 PPB	0.02
8	61	246	8:12	1	0.943	A BB	637.	0.318 PPB	0.02
9	83	322	10:44	1	1.234	A BB	726.	0.351 PPB	0.02
10	NOT FOUND								
11	91	664	22:08	3	0.957	A BB	2792.	1.331 PPB	0.08
12	91	749	24:58	3	1.079	A BB	1356.	0.412 PPB	0.02
13	50	38	1:16	1	0.146	A BB	134.	0.261 PPB	0.02
14	63	282	9:24	1	1.080	A BB	170.	0.102 PPB	0.01
15	NOT FOUND								
16	NOT FOUND								
17	112	698	23:16	3	1.006	A BB	371.	0.226 PPB	0.01
18	85	83	2:46	1	0.318	A BB	3370.	2.498 PPB	0.14
19	NOT FOUND								
20	NOT FOUND								
21	94	62	2:04	1	0.238	A*BB	315.	0.345 PPB	0.02
22	101	224	7:28	1	0.858	A BB	9559.	3.510 PPB	0.20
23	41	244	8:08	1	0.935	A BV	301.	0.200 PPB	0.01
24	NOT FOUND								
25	76	209	6:58	1	0.801	A BB	1318.	0.536 PPB	0.03
26	84	169	5:38	1	0.648	A BB	1312500.	1167.110 PPB	67.02
27	NOT FOUND								
28	61	303	10:06	1	1.161	A BB	137.	0.110 PPB	0.01
29	56	196	6:32	1	0.751	A BB	104.	18.910 PPB	1.09
30	NOT FOUND								
31	43	194	6:28	1	0.743	A BB	4558.	20.403 PPB	1.17
32	97	376	12:32	2	0.679	A*BB	188.	0.138 PPB	0.01
33	117	387	12:54	2	0.699	A BB	339.	0.239 PPB	0.01
34	78	477	15:54	2	0.861	A BB	1390.	0.869 PPB	0.05
35	62	345	11:30	1	1.322	A BB	589.	0.430 PPB	0.02
36	130	466	15:32	2	0.841	A BB	523.	0.536 PPB	0.03
37	69	554	18:28	2	1.000	A BB	4113.	7.566 PPB	0.43
38	93	350	11:40	2	0.632	A BB	407.	0.532 PPB	0.03
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	69	661	22:02	3	0.952	A BB	981.	1.403 PPB	0.08
44	166	629	20:58	3	0.906	A BB	606.	0.378 PPB	0.02
45	43	574	19:08	3	0.827	A VV	793.	1.570 PPB	0.09
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								
49	91	749	24:58	3	1.079	A BB	1356.	0.412 PPB	0.02
50	NOT FOUND								

ARI02953

E-261

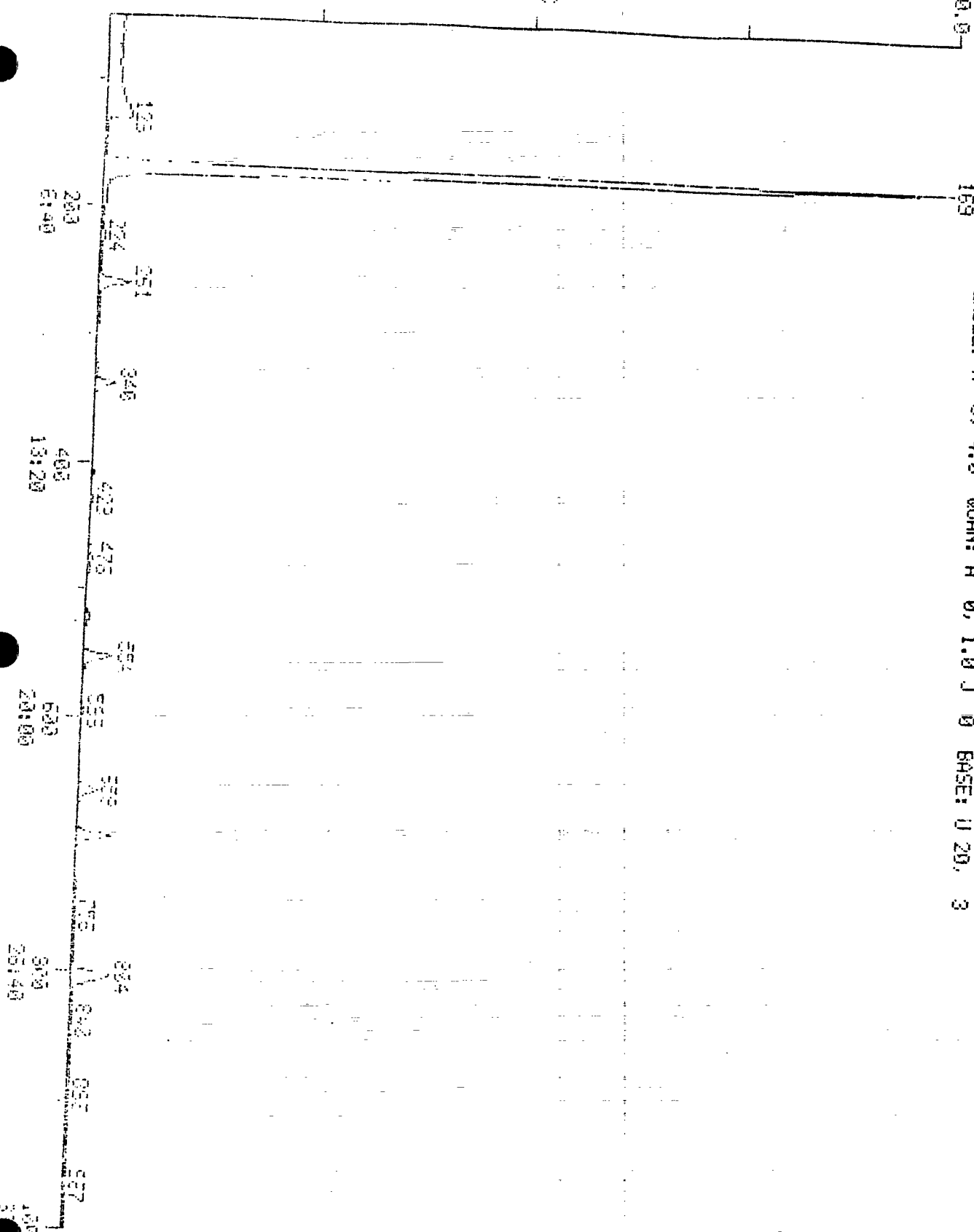
No	Ret(L)	Ratio	PRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	8:50	0.73	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	18:36	0.79	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	23:18	0.99	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	11:28	0.99	1.298	1.00	49.56	50.00	1.307	1.319	0.99
5	22:06	0.99	0.948	1.00	50.55	50.00	1.057	1.045	1.01
6	26:58	1.00	1.157	1.00	58.31	50.00	1.806	1.549	1.17
7	2:56	0.97	0.332	0.98	0.35	10.00	0.038	1.083	0.04
8	8:22	0.98	0.947	1.00	0.32	10.00	0.081	2.554	0.03
9	10:52	0.99	1.230	1.00	0.35	10.00	0.092	2.615	0.04
10	14:54		0.801						
11	22:14	1.00	0.954	1.00	1.33	10.00	0.275	2.065	0.13
12	25:06	0.99	1.077	1.00	0.41	10.00	0.136	3.308	0.04
13	1:16	1.00	0.143	1.02	0.26	10.00	0.014	0.536	0.03
14	9:34	0.98	1.083	1.00	0.10	10.00	0.022	2.108	0.01
15	18:56		1.018						
16	21:08		0.907						
17	23:22	1.00	1.003	1.00	0.23	10.00	0.038	1.676	0.02
18	2:52	0.97	0.325	0.98	2.50	10.00	0.411	1.645	0.25
19	3:50		0.434						
20	2:08		0.247						
21	2:12	0.94	0.249	0.95	0.35	10.00	0.041	1.185	0.03
22	7:38	0.98	0.864	0.99	3.51	10.00	1.204	3.429	0.35
23	8:22	0.97	0.947	0.99	0.20	10.00	0.038	1.922	0.02
24	5:14		0.592						
25	7:06	0.98	0.804	1.00	0.54	10.00	0.170	3.163	0.05
26	5:46	0.98	0.653	0.99	1167.12	10.00	197.133	1.689	116.71
27	7:08		0.808						
28	10:16	0.98	1.162	1.00	0.11	10.00	0.018	1.624	0.01
29	6:32	1.00	0.757	0.99	18.71	100.00	0.001	0.007	0.19
30	8:10		0.925						
31	6:32	0.99	0.740	1.00	20.40	10.00	0.984	0.482	2.04
32	12:42	0.99	0.683	0.99	0.14	10.00	0.011	0.792	0.01
33	13:02	0.99	0.701	1.00	0.24	10.00	0.020	0.843	0.02
34	16:06	0.99	0.866	0.99	0.87	10.00	0.082	0.940	0.09
35	11:34	0.99	1.009	1.01	0.43	10.00	0.075	1.754	0.04
36	15:42	0.99	0.844	1.00	0.54	10.00	0.033	0.609	0.05
37	18:34	0.99	0.998	1.00	7.57	50.00	0.037	0.243	0.15
38	11:46	0.99	0.633	1.00	0.53	10.00	0.024	0.459	0.05
39	15:42		0.844						
40	6:32		0.351						
41	15:10		0.815						
42	16:24		0.882						
43	22:12	0.99	0.953	1.00	1.40	50.00	0.020	0.726	0.03
44	21:06	0.99	0.906	1.00	0.39	10.00	0.064	1.698	0.04
45	19:16	0.99	0.827	1.00	1.57	10.00	0.073	0.462	0.16
46	16:22		0.800						
47	17:14		0.727						
48	19:04		1.025						
49	25:06	0.99	1.077	1.00	0.41	10.00	0.136	3.308	0.04
50	16:24		0.382						

AR102954

RID
 12/10/87 15:53:00
 SAMPLE: 4711041-05 (100 U/L)
 COND.: 8' X 2MM ID 125P1000 36(2.5) TO 220 @8C/MIN
 RANGE: G 1.1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 45318 #1
 CALL: 45318 #2
 SCANS 50 TO 1000

1169400.



ARI02955

010A

45318
 SCAN
 TIME

E-211

SAMPLE WORKSHEET FOR VOLATILES

CONTRACT NAME WESTON
CONTRACT NUMBER 325-001-01-01
RADIANT CONTACT RICHARDSON

SAMPLE DESCRIPTION

SAMPLE NO. (SAM) A711041-05A ANALYTE(S) _____
TYPE AQUEOUS SOLID ORGANIC LIQUID SORBENT
 OTHER _____

SAMPLE IDENTIFIER 6581
COMMENTS _____

SAMPLE PREPARATION
AQUEOUS SAMPLES

DATE EXTRACTED 11-13-87

_____ 5 mL OR _____ mL (SMP*) DILUTED TO 5 mL H2O; DF= _____

SOLID SAMPLES

2.07 g (SMPSZ) INTO 30.1 mL Methanol (EXTVOL)
_____ mL Methanol (SMP*) ADDED TO 5mL H2O FOR ANALYSIS DF= _____

SURROGATE SPIKE: _____ uL OF _____ ug/mL _____ , LOT# _____
COMMENT: _____

DATE SUBMITTED 11-16-87 SUBMITTED BY EE RECEIVED BY JAP

SAMPLE ANALYSIS

FRN _____ DATE ANALYZED _____ ANALYST _____
INTERNAL STANDARD V1-IS OTHER _____
AMOUNT ADDED ng _____ 100 _____ 250 _____ OTHER _____
COMMENT: _____

$$C_{ppm} = \frac{A_n \times CIS \text{ (ppm)} \times DF}{RF} \times \frac{EXTVOL}{SMPSZ} \quad DF = \frac{5}{SMP^*}$$

SURROGATE CONCENTRATION (Cs): _____ ppm

$$C_s = \frac{ug \text{ SPIKED}}{SMP^*} \times \frac{EXTVOL}{SMPSZ}$$

WVO.JSF

AR102956

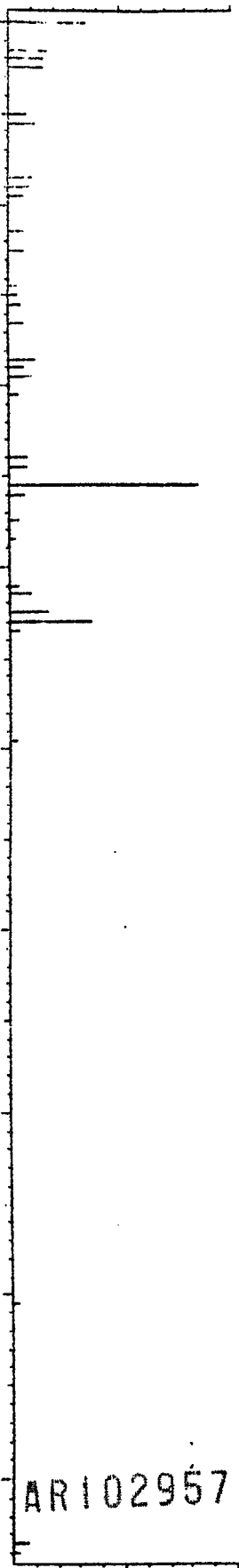
2 x 12

1182
SAMPLE

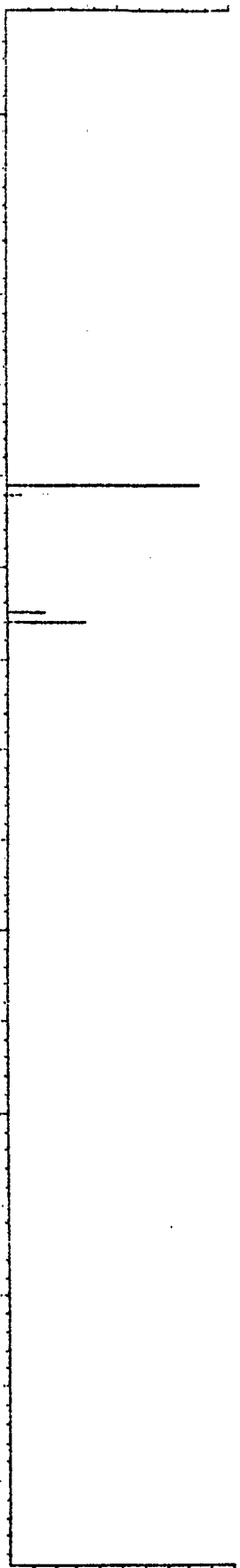
LIBRARY SEARCH
12/10/87 14:25:03 + 28:32
SAMPLE: 8711041-04 (100 UL)
CONDOS.: 8' X 2MM ID 125P1000 36(2.5) TO 220 @9C/MIN

DATA: 45316 # 856
CALL: 45316 # 2

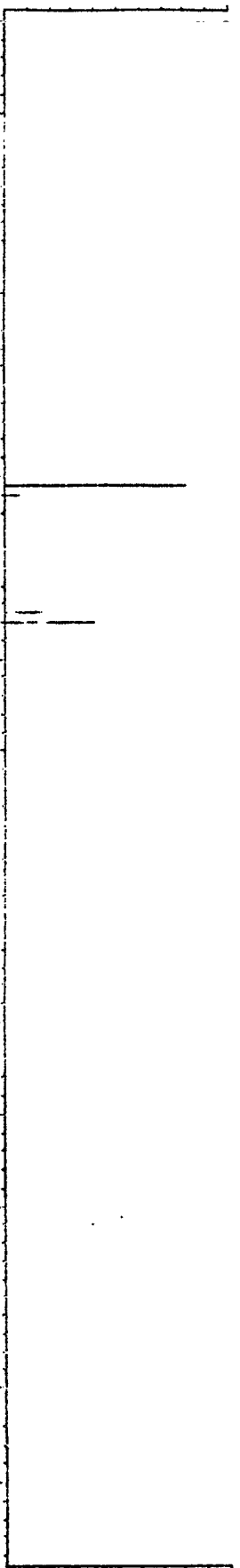
BASE M/Z: 91
RIC: 5775.



1182
M INT 856
3 PK 91
FRANK 56
PURE 451



1182
M INT 856
3 PK 91
FRANK 56
PURE 451



1182
M INT 856
3 PK 91
FRANK 56
PURE 451

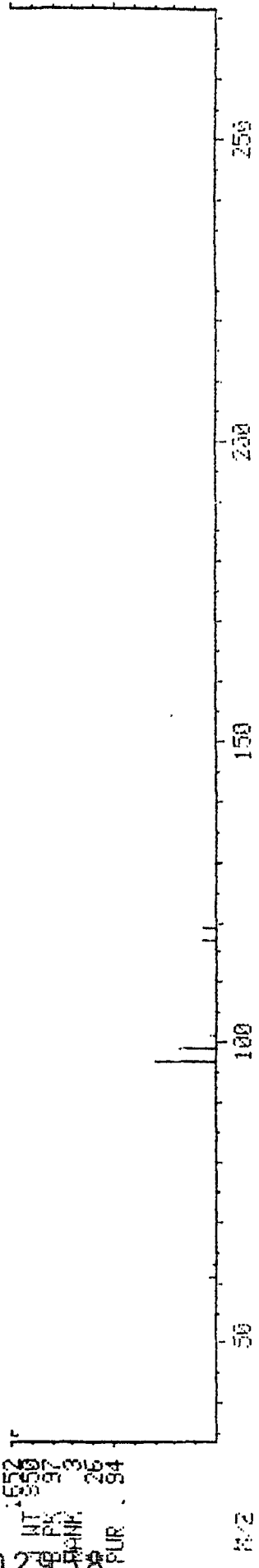
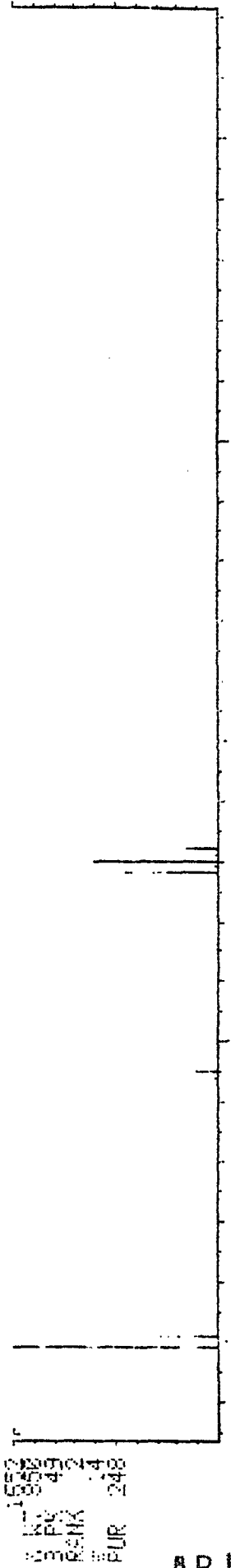
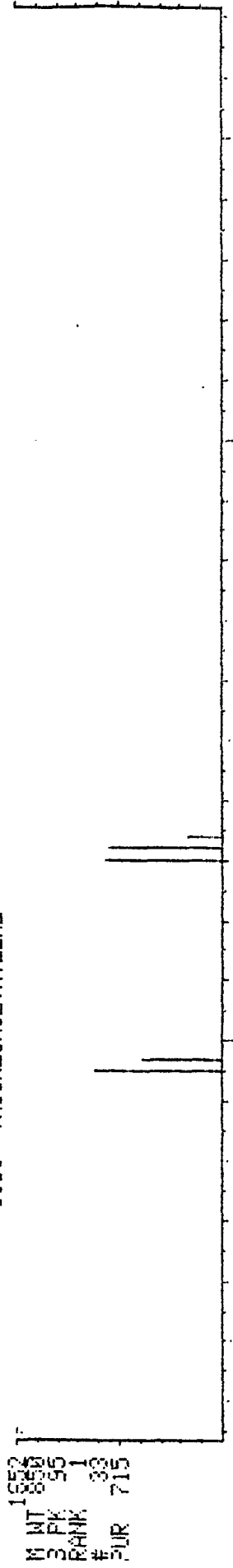
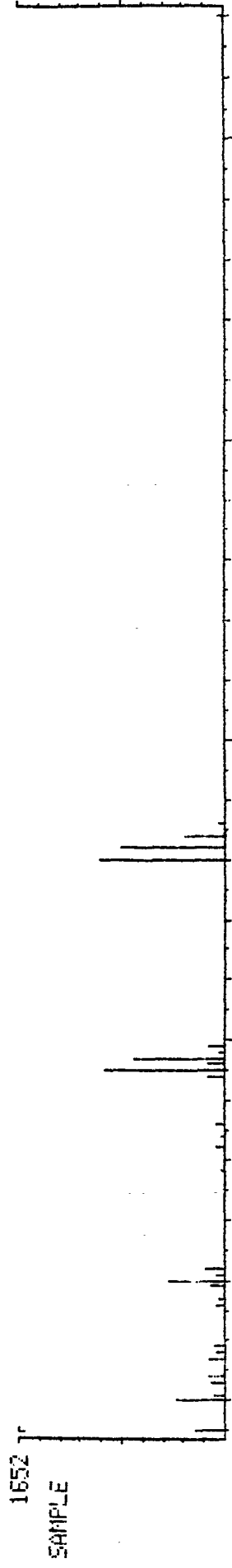


50 100 150 200

AR102957

LIBRARY SEARCH
12/10/87 15:08:00 + 15:32
SAMPLE: A711041-05 (100 UL)
CONDS.: 8' X 2MM ID 125P1000 36(2.5) TO 220 @8C/MIN

DATA: 45317 # 456
CALL: 45317 # 2
BASE M/Z: 190
RIC: 6743.



M NT 850
3 PK 95
RANK 1
33
PUR 715

M NT 850
3 PK 49
RANK 14
PUR 248

M NT 850
3 PK 97
RANK 3
PUR 26
PUR 94

ARI02958

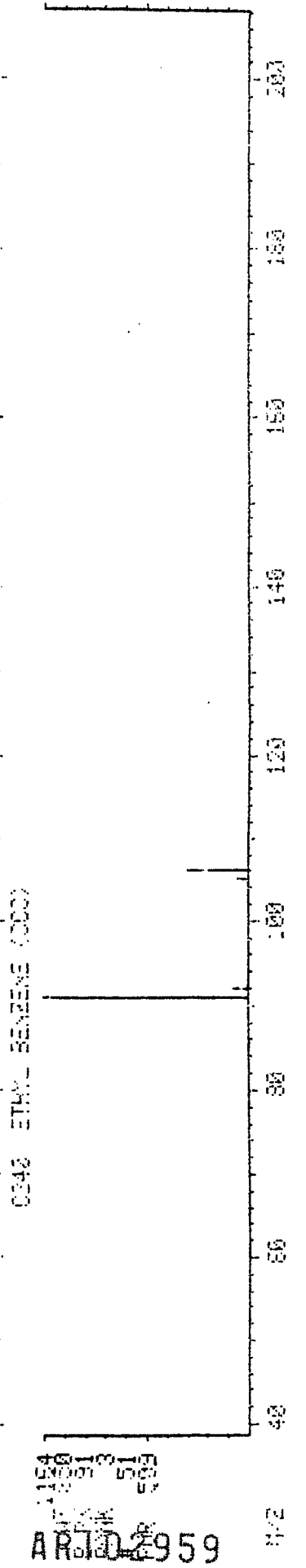
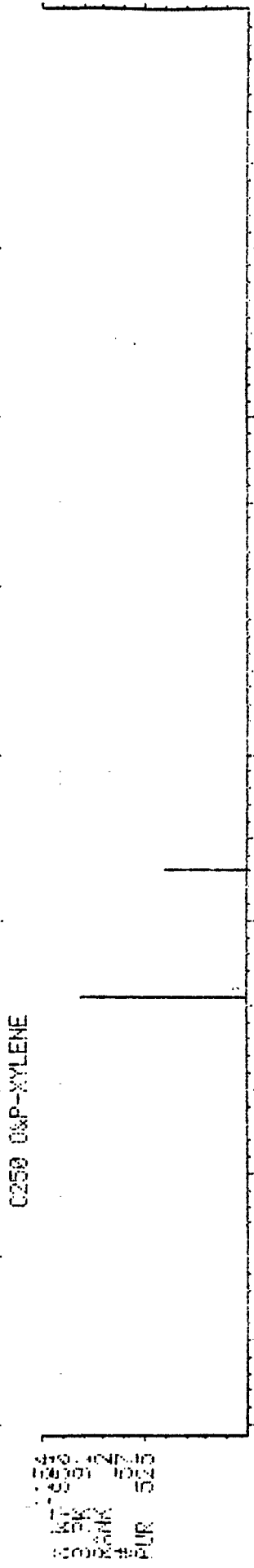
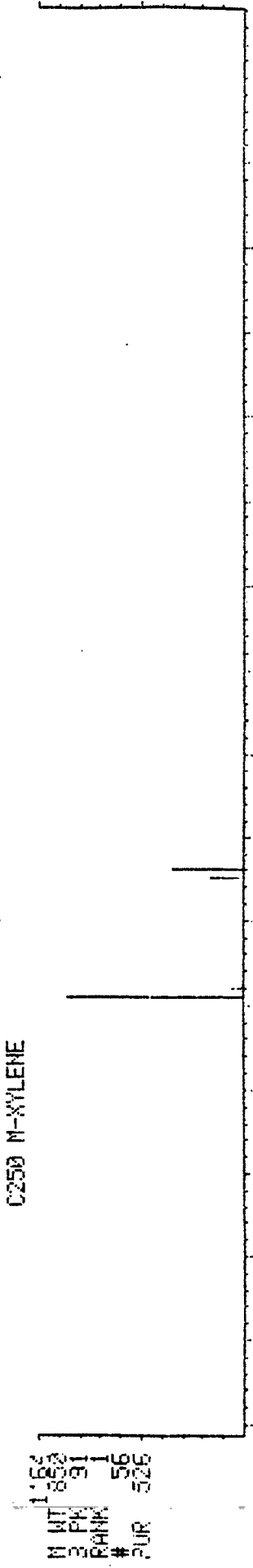
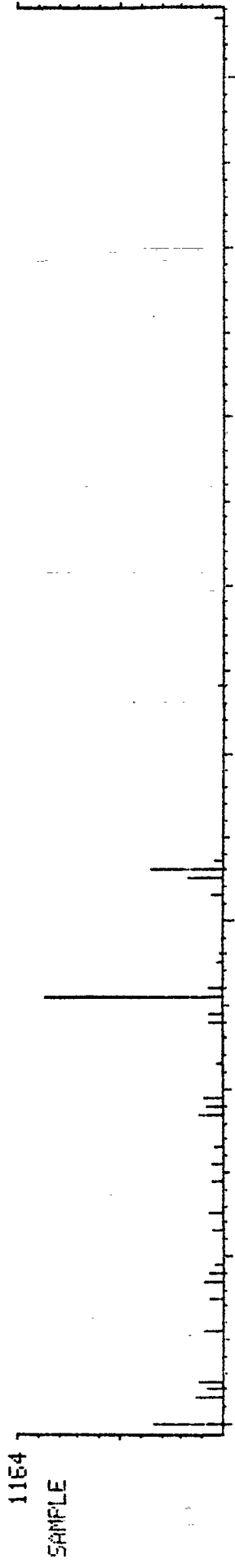
0010

M/Z 256 200 150 100 50

E-217

LIBRARY SEARCH
12/10/87 15:08:00 + 28:32
SAMPLE: A711041-05 (100 UL)
CONDS.: 8' X 2MM ID 175P1000 36(2.5) TO 220 @80/MIN

DATA: 45317 # 856
CALI: 45317 # 2
BASE M/Z: 91
RIC: 5655.



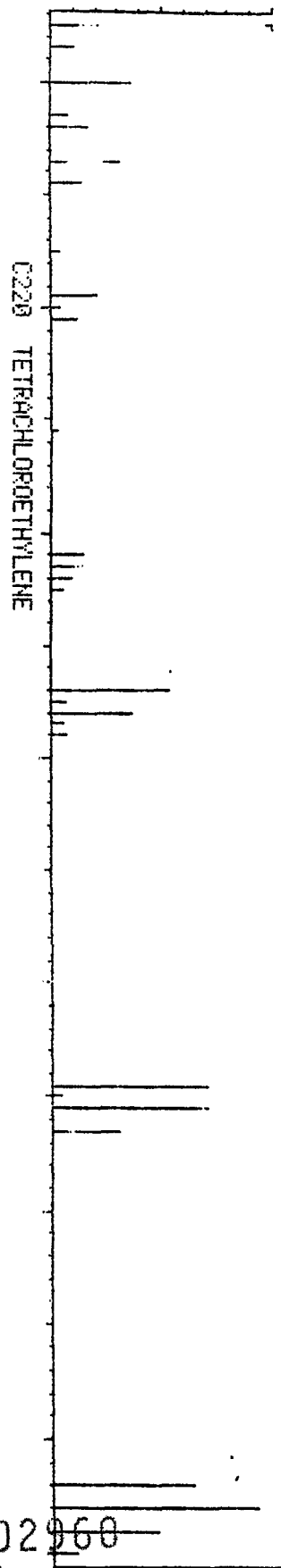
5 210

LIBRARY SEARCH
12-10/87 15:08:00 + 20:56
SAMPLE: A711041-05 (100 UL)
COND5.: 8' X 2MM ID 12SP1000 36(2.5) T0 220 @80/MIN

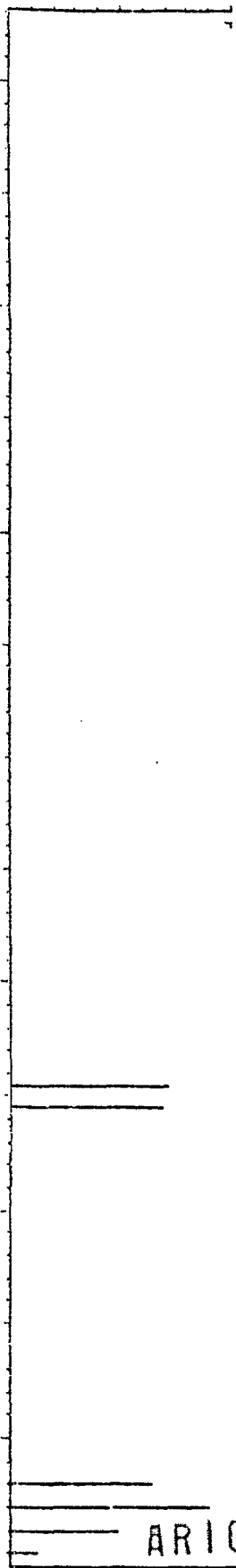
DATA: 45317 # 528
CALL: 45317 # 2

BASE M/Z: 156
RIC: 7919.

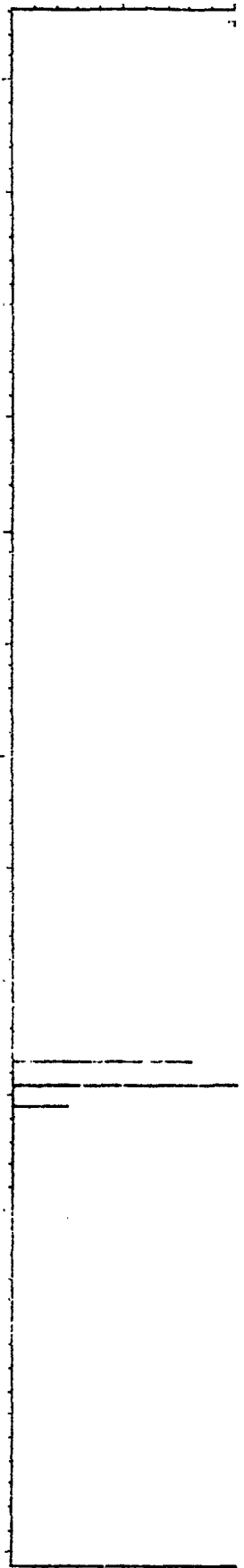
1096
SAMPLE



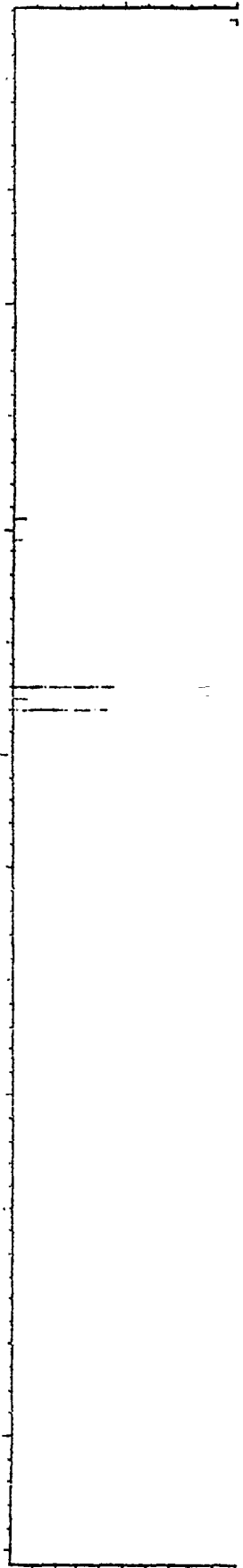
M WT 1296
3 PK 166
44
PUR 667



M WT 1696
3 PK 166
44
PUR 667



M WT 1696
3 PK 166
44
PUR 667



M/Z 40 50 80 100 120 140 160

ARI02960

216

Quantitation Report File: 45317

Date: 45317.T1

12/10/87 15:08:00

Sample: A711041-05 (100 UL)

Conds.: 8' X 2MM ID 1%SP1000 36(2.5) TO 220 GBC/MIN

Formula:

Instrument: 5100

Weight: 0.000

Submitted by: WESTON

Analyst: JAP

Acct. No.: P&T

AMOUNT=AREA * REF AMNI/(REF AREA * RESP FACT)

Resp. fac. from average of whole .RI

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL STANDARD)
2	CI10 1,4-DIFLUOROBENZENE (INTERNAL STANDARD)
3	CI20 CHLOROBENZENE-D5 (INTERNAL STANDARD)
4	CS15 DICHLOROETHANE-D4 (SURROGATE)
5	CS05 TOLUENE-D8 (SURROGATE)
6	CS10 BROMOFLUOROBENZENE (SURROGATE)
7	C020 VINYL CHLORIDE (CCC)
8	C045 1,1-DICHLOROETHENE (CCC)
9	C060 CHLOROFORM (CCC)
10	C140 1,2-DICHLOROPROPANE (CCC)
11	C230 TOLUENE (CCC)
12	C240 ETHYL BENZENE (CCC)
13	C010 CHLOROMETHANE (SPCC)
14	C050 1,1-DICHLOROETHANE (SPCC)
15	C180 TRIBROMOMETHANE (BROMOFORM)
16	C225 1,1,2,2-TETRACHLOROETHANE (SPCC)
17	C235 CHLOROBENZENE (SPCC)
18	C121 DICHLOROFLUOROMETHANE
19	C025 CHLOROETHANE
20	C029 ETHYLENE OXIDE
21	C015 BROMOMETHANE
22	C122 TRICHLOROFLUOROMETHANE
23	C181 ACETONITRILE
24	C016 IODOMETHANE
25	C040 CARBON DISULFIDE
26	C030 METHYLENE CHLORIDE
27	C183 ACRYLONITRILE
28	C055 TRANS-1,2-DICHLOROETHENE
29	C182 ACROLEIN
30	C179 PROPANENITRILE
31	C035 ACETONE
32	C115 1,1,1-TRICHLOROETHANE
33	C120 CARBON TETRACHLORIDE
34	C165 BENZENE
35	C065 1,2-DICHLOROETHANE
36	C150 TRICHLOROETHYLENE
37	C076 METHYL METHACRYLATE
38	C031 DIBROMOMETHANE
39	C130 BROMODICHLOROMETHANE
40	C125 VINYL ACETATE
41	C143 CIS-1,3-DICHLOROPROPENE
42	C145 TRANS-1,3-DICHLOROPROPENE
43	C077 ETHYL METHACRYLATE
44	C220 TETRACHLOROETHYLENE
45	C205 4-METHYL-2-PENTANONE (MIBK)
46	C155 CHLORODIBROMOMETHANE
47	C066 1,2-DIBROMOETHANE

AR102961

E 211

No Name
 48 C224 1, 1, 1, 2-TETRACHLOROETHANE
 49 C250 M-XYLENE
 50 C160 1, 1, 2-TRICHLOROETHANE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	130	261	8:42	1	1.000	A BB	34141.	50.000 PPB	2.66
2	114	554	18:28	2	1.000	A BB	90958.	50.000 PPB	2.66
3	82	694	23:08	3	1.000	A BB	50376.	50.000 PPB	2.66
4	65	340	11:20	1	1.303	A BB	49595.	49.360 PPB	2.63
5	98	658	21:56	3	0.948	A BB	54358.	54.938 PPB	2.93
6	95	803	26:46	3	1.157	A BB	70861.	49.851 PPB	2.65
7	62	84	2:48	1	0.322	A BB	811.	0.953 PPB	0.05
8	61	246	8:12	1	0.943	A BB	1937.	1.022 PPB	0.05
9	83	323	10:46	1	1.238	A BB	1562.	0.796 PPB	0.04
10	63	443	14:46	2	0.800	A BB	589.	0.858 PPB	0.05
11	91	663	22:06	3	0.955	A BB	6082.	2.849 PPB	0.15
12	91	748	24:56	3	1.078	A BB	8025.	2.397 PPB	0.13
13	50	37	1:14	1	0.142	A BB	340.	0.700 PPB	0.04
14	63	282	9:24	1	1.080	A BB	1158.	0.736 PPB	0.04
15	173	563	18:46	2	1.016	A BB	940.	1.048 PPB	0.06
16	83	630	21:00	3	0.908	A BB	1003.	1.209 PPB	0.06
17	112	697	23:14	3	1.004	A BB	3640.	2.175 PPB	0.12
18	85	83	2:46	1	0.318	A BB	4013.	3.139 PPB	0.17
19	64	111	3:42	1	0.425	A BB	351.	0.689 PPB	0.04
20	44	60	2:00	1	0.230	A VB	2484.	10.000 PPB	0.53
21	94	63	2:06	1	0.241	A BB	594.	0.687 PPB	0.04
22	101	225	7:30	1	0.862	A BB	10527.	4.079 PPB	0.22
23	41	248	8:16	1	0.950	A BV	1142.	0.800 PPB	0.04
24	142	153	5:06	1	0.586	A BB	896.	0.451 PPB	0.02
25	76	209	6:58	1	0.801	A BB	3292.	1.413 PPB	0.08
26	84	170	5:40	1	0.651	A BB	1328990.	1247.020 PPB	66.40
27	53	214	7:08	1	0.820	A BB	2634.	15.690 PPB	0.84
28	61	305	10:10	1	1.169	A BB	999.	0.846 PPB	0.05
29	NOT FOUND								
30	54	244	8:08	1	0.935	A BB	318.	5.338 PPB	0.28
31	NOT FOUND								
32	97	376	12:32	2	0.679	A BB	1853.	1.269 PPB	0.07
33	117	387	12:54	2	0.699	A BB	2236.	1.472 PPB	0.08
34	78	480	16:00	2	0.866	A BB	2970.	1.737 PPB	0.09
35	62	342	11:24	1	1.310	A BB	890.	0.686 PPB	0.04
36	130	466	15:32	2	0.841	A BB	6182.	5.926 PPB	0.32
37	69	553	18:26	2	0.998	A BB	5780.	9.944 PPB	0.53
38	93	350	11:40	2	0.632	A BB	764.	0.934 PPB	0.05
39	NOT FOUND								
40	NOT FOUND								
41	75	451	15:02	2	0.814	A BB	843.	0.719 PPB	0.04
42	75	489	16:18	2	0.883	A BB	517.	0.576 PPB	0.03
43	69	662	22:04	3	0.954	A BB	5174.	7.272 PPB	0.39
44	166	628	20:56	3	0.905	A BB	6221.	3.813 PPB	0.20
45	43	573	19:06	3	0.826	A VB	1648.	3.204 PPB	0.17
46	127	486	16:12	2	0.877	A BB	729.	0.705 PPB	0.04
47	107	512	17:04	2	0.924	A BB	1019.	1.019 PPB	0.05
48	131	568	18:56	2	1.025	A BB	1683.	1.585 PPB	0.08
49	91	748	24:56	3	1.078	A BB	8025.	2.397 PPB	0.13
50	97	490	16:20	2	0.884	A BB	751.	1.031 PPB	0.05

AR102962

L 210

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	8:50	0.98	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	18:36	0.99	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	23:18	0.99	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	11:23	0.99	1.298	1.00	49.36	50.00	1.302	1.319	0.99
5	22:06	0.99	0.948	1.00	54.94	50.00	1.148	1.045	1.10
6	26:58	0.99	1.157	1.00	49.85	50.00	1.544	1.549	1.00
7	2:56	0.95	0.332	0.97	0.95	10.00	0.103	1.083	0.10
8	8:22	0.98	0.947	1.00	1.02	10.00	0.261	2.554	0.10
9	10:52	0.99	1.230	1.01	0.80	10.00	0.208	2.615	0.08
10	14:54	0.99	0.801	1.00	0.86	10.00	0.032	0.373	0.09
11	22:14	0.99	0.954	1.00	2.85	10.00	0.588	2.065	0.28
12	25:06	0.99	1.077	1.00	2.40	10.00	0.793	3.308	0.24
13	1:16	0.97	0.143	0.99	0.70	10.00	0.037	0.536	0.07
14	9:34	0.98	1.083	1.00	0.74	10.00	0.155	2.108	0.07
15	18:56	0.99	1.018	1.00	1.05	10.00	0.051	0.491	0.10
16	21:08	0.99	0.907	1.00	1.21	10.00	0.109	0.900	0.12
17	23:22	0.99	1.003	1.00	2.17	10.00	0.364	1.676	0.22
18	2:52	0.97	0.325	0.98	3.14	10.00	0.516	1.645	0.31
19	3:50	0.97	0.434	0.98	0.69	10.00	0.046	0.672	0.07
20	2:08	0.94	0.247	0.93	10.00	50.00	0.032	0.161	0.20
21	2:12	0.95	0.249	0.97	0.69	10.00	0.081	1.185	0.07
22	7:38	0.98	0.864	1.00	4.08	10.00	1.399	3.429	0.41
23	8:22	0.99	0.947	1.00	0.80	10.00	0.154	1.922	0.08
24	5:14	0.97	0.592	0.99	0.45	10.00	0.124	2.761	0.05
25	7:06	0.98	0.804	1.00	1.41	10.00	0.447	3.163	0.14
26	5:46	0.98	0.653	1.00	1247.03	10.00	210.630	1.689	124.70
27	7:08	1.00	0.808	1.02	15.69	50.00	0.069	0.219	0.31
28	10:16	0.99	1.162	1.01	0.85	10.00	0.137	1.624	0.08
29	6:32		0.757						
30	8:10	1.00	0.925	1.01	5.34	100.00	0.005	0.086	0.05
31	6:32		0.740						
32	12:42	0.99	0.683	0.99	1.27	10.00	0.101	0.792	0.13
33	13:02	0.99	0.701	1.00	1.47	10.00	0.124	0.843	0.15
34	16:06	0.99	0.866	1.00	1.74	10.00	0.163	0.940	0.17
35	11:34	0.99	1.309	1.00	0.69	10.00	0.120	1.754	0.07
36	15:42	0.99	0.844	1.00	5.93	10.00	0.361	0.609	0.59
37	18:34	0.99	0.998	1.00	9.94	50.00	0.048	0.243	0.20
38	11:46	0.99	0.633	1.00	0.93	10.00	0.043	0.459	0.09
39	15:42		0.844						
40	6:32		0.351						
41	15:10	0.99	0.815	1.00	0.72	10.00	0.046	0.646	0.07
42	16:24	0.99	0.882	1.00	0.58	10.00	0.027	0.464	0.06
43	22:12	0.99	0.953	1.00	7.27	50.00	0.106	0.726	0.15
44	21:06	0.99	0.906	1.00	3.81	10.00	0.648	1.698	0.38
45	19:16	0.99	0.827	1.00	3.20	10.00	0.148	0.462	0.32
46	16:22	0.99	0.880	1.00	0.70	10.00	0.040	0.562	0.07
47	17:14	0.99	0.927	1.00	1.02	10.00	0.057	0.559	0.10
48	19:04	0.99	1.025	1.00	1.58	10.00	0.093	0.588	0.16
49	25:06	0.99	1.077	1.00	2.40	10.00	0.793	3.308	0.24
50	16:24	1.00	0.882	1.00	1.03	10.00	0.041	0.401	0.10

C 211

Quantitation Report File: 45317

Data: 45317.TI

2/10/87 15:08:00

Sample: A711041-05 (100 UL)

Conds.: 8' X 2MM ID 1%SP1000 36(2.5) TO 220 @80/MIN

Formula: Instrument: 5100

Weight: 0.000

Submitted by: WESTON

Analyst: JAP

Acct. No.: P&T

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

Resp. fac. from average of whole .RI

No	Name
51	C250 O&P-XYLENE
52	C245 STYRENE
53	C161 1,2,3-TRICHLOROPROPANE
54	C210 2-HEXANONE
55	C226 TRANS-1,4-DICHLORO-2-BUTENE
56	C144 1,2-DIBROMO-3-CHLOROPROPANE
57	C110 METHYL ETHYL KETONE (MEK)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	91	856	28:32	3	1.233	A BB	11569.	4.044 PPB	0.22
52	104	832	27:44	3	1.199	A BB	3400.	2.259 PPB	0.12
53	75	621	20:42	2	1.121	A BB	2018.	2.503 PPB	0.13
54	43	620	20:40	1	2.375	A BB	1414.	2.999 PPB	0.16
55	75	635	21:10	3	0.915	A BB	92.	0.457 PPB	0.02
56	157	759	25:18	3	1.094	A BB	757.	2.799 PPB	0.15
57	43	342	11:24	1	1.310	A BB	13681.	209.860 PPB	11.17

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
51	28:44	0.99	1.233	1.00	4.04	20.00	0.564	2.791	0.20
52	27:54	0.99	1.197	1.00	2.26	10.00	0.338	1.498	0.23
53	20:52	0.99	1.122	1.00	2.50	10.00	0.109	0.435	0.25
54	20:46	1.00	2.351	1.01	3.00	10.00	0.213	0.709	0.30
55	21:24	0.99	0.918	1.00	0.46	10.00	0.008	0.172	0.05
56	25:28	0.99	1.093	1.00	2.80	10.00	0.083	0.297	0.28
57	10:38	1.07	1.204	1.09	209.86	10.00	1.019	0.049	20.99

AR102964

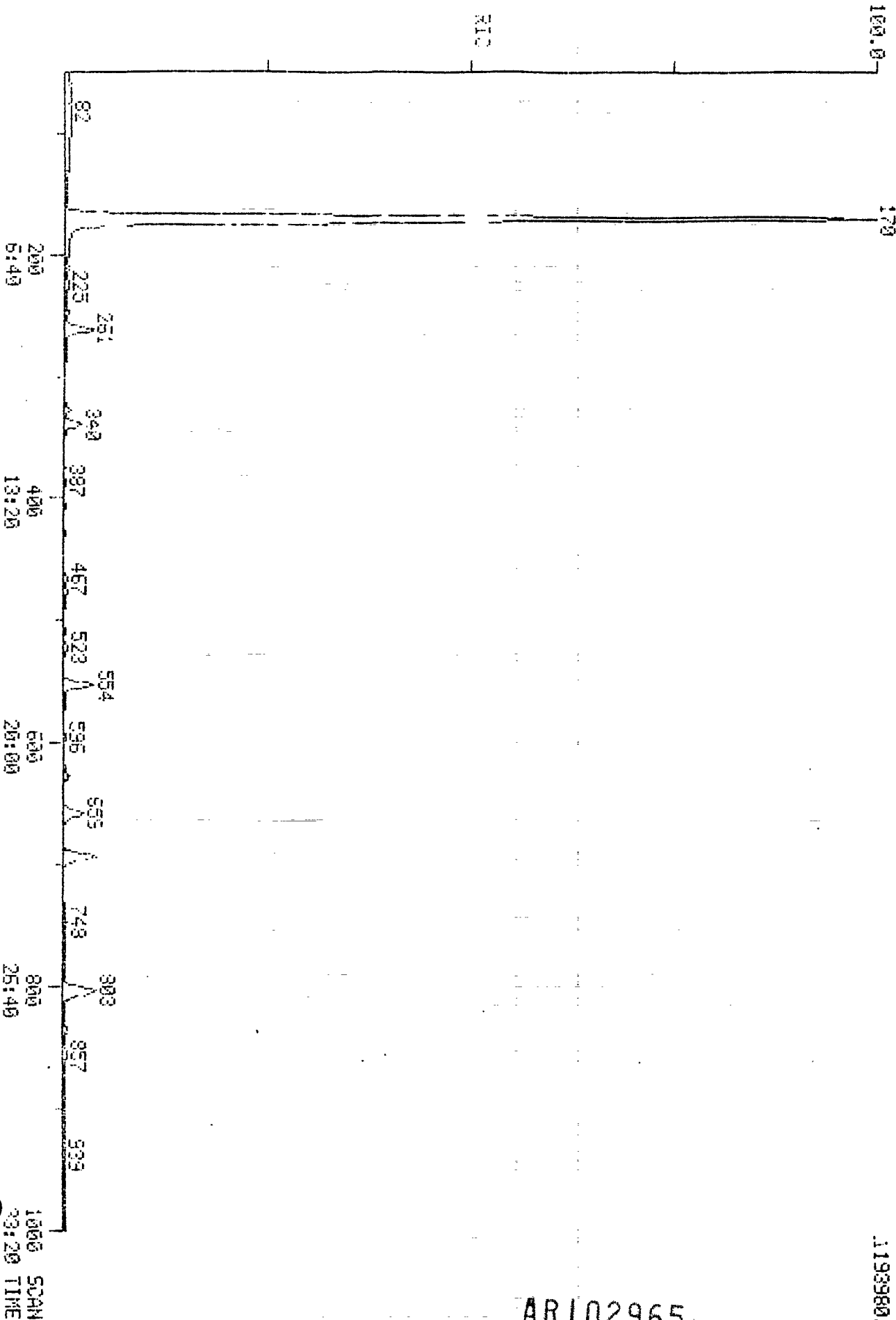
0280

RIC
12/10/87 15:08:00
SAMPLE: A711041-05 (100 UL)
COND5.: 8' X 2MM ID 125P1000 36(2.5) TO 220 @9C/MIN
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 45317 #1
CALL: 45317 #2

SCANS 50 TO 1000

.1193980.



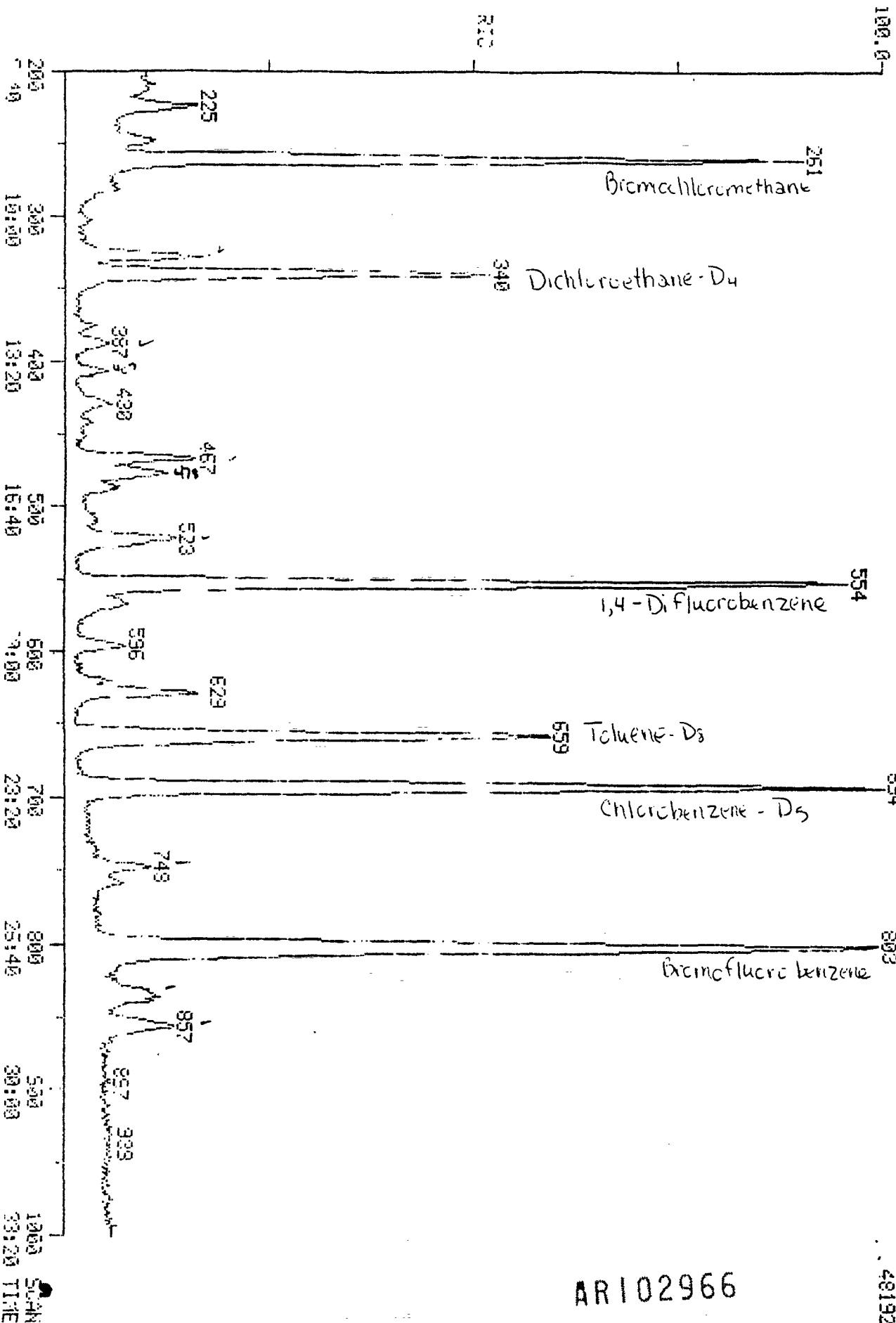
ARI02965

E 281

RIC
 12/10/87 15:08:00
 SAMPLE: 8711041-05 (100 UL)
 CONDS.: 8' X 2MM ID 175P1000 36(2.5) TO 220 @8C/MIN
 RANGE: G 1.1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 45317 #1
 CALL: 45317 #2

SCANS 200 TO 1000



AR102966

48192.

500

SAMPLE WORKSHEET FOR VOLATILES

CONTRACT NAME WESTON
CONTRACT NUMBER 325-001-01-01
RADIANT CONTACT RICHARDSON

SAMPLE DESCRIPTION

SAMPLE NO. (SAM) A711041-04A ANALYTE(S) _____
TYPE AQUEOUS SOLID ORGANIC LIQUID SORBENT
 OTHER _____

SAMPLE IDENTIFIER 6580
COMMENTS _____

SAMPLE PREPARATION
AQUEOUS SAMPLES

DATE EXTRACTED 11-13-87

_____ 5 mL OR _____ mL (SMP*) DILUTED TO 5 mL H2O; DF= _____

SOLID SAMPLES

2.03 g (SMPSZ) INTO 30.2 mL Methanol (EXTVOL)
_____ mL Methanol (SMP*) ADDED TO 5mL H2O FOR ANALYSIS DF= _____

SURROGATE SPIKE: _____ uL OF _____ ug/mL _____, LOT# _____
COMMENT: _____

DATE SUBMITTED 11-16-87 SUBMITTED BY EE RECEIVED BY JAP

SAMPLE ANALYSIS

FRN _____ DATE ANALYZED _____ ANALYST _____
INTERNAL STANDARD V1-IS OTHER _____
AMOUNT ADDED ng _____ 100 _____ 250 _____ OTHER _____
COMMENT: _____

$$C_{ppm} = \frac{A_n \times CIS \text{ (ppm)} \times DF}{RF} \times \frac{EXTVOL}{SMPSZ} \quad DF = \frac{5}{SMP^*}$$

SURROGATE CONCENTRATION (Cs): _____ ppm

$$C_s = \frac{ug \text{ SPIKED}}{SMP^*} \times \frac{EXTVOL}{SMPSZ}$$

WVO.JSF

AR102967

LIBRARY SEARCH
12-18-87 14:25:00 + 22:08
SAMPLE: 6711041-04 (100 ULL)
CONDOS.: 81 X 2MM ID 125P1000 36(2.5) 10 220 000/MIN

DATA: 45315 # 564
CALL: 45315 # 2

BASE N: 21 31
PIC: 10495.

1016
SAMPLE:

M NT 816
P PK 31
BRNK 48
PUP 543

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0230 TOLUENE (000)

0240 ETHYL BENZENE (000)

0250 STYRENE

000 50 100 150 200 250 300 350 400

AR102968

0000

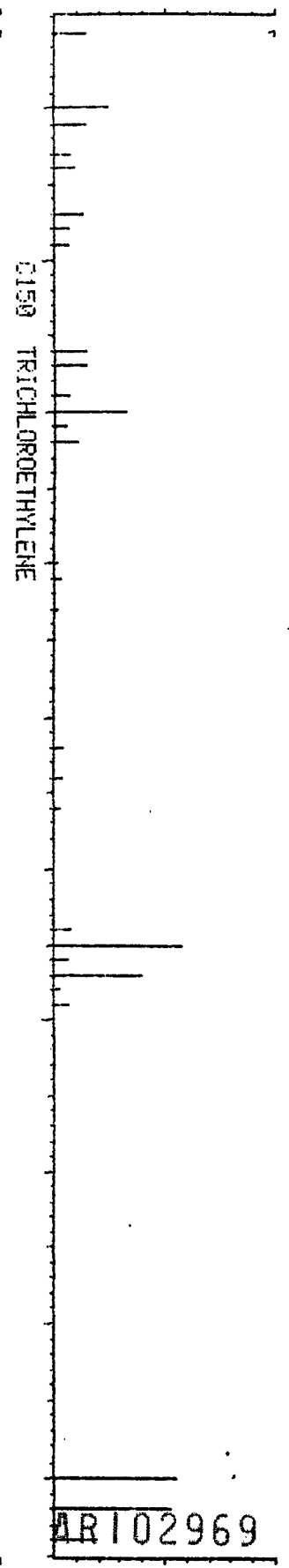
207

1725
SAMPLE

LIBRARY SEARCH
12/10/87 14:25:00 + 15:32
SAMPLE: A711041-04 (100 UL)
COND.: 8' X 2MM ID 125P1000 36(2.5) TO 220 @9C/MIN

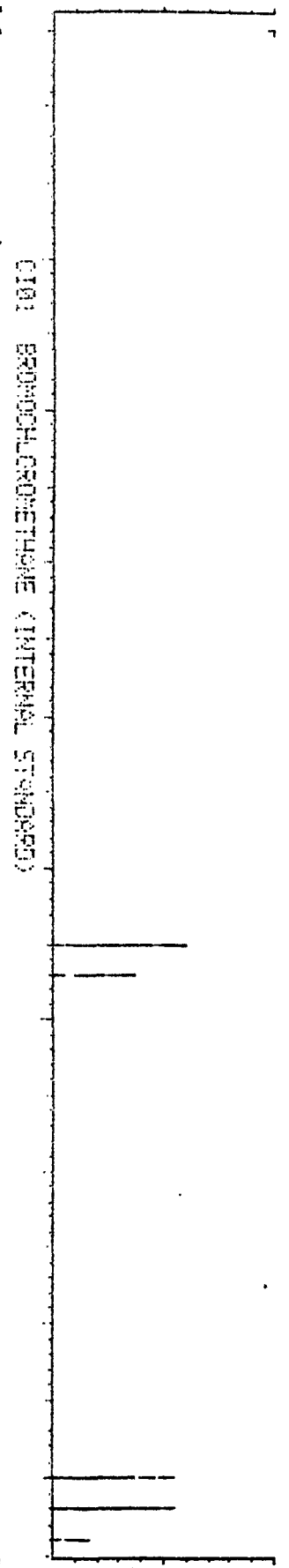
DATA: 45316 # 465
CALL: 45316 # 2

BASE M/Z: 95
RIC: 7247.

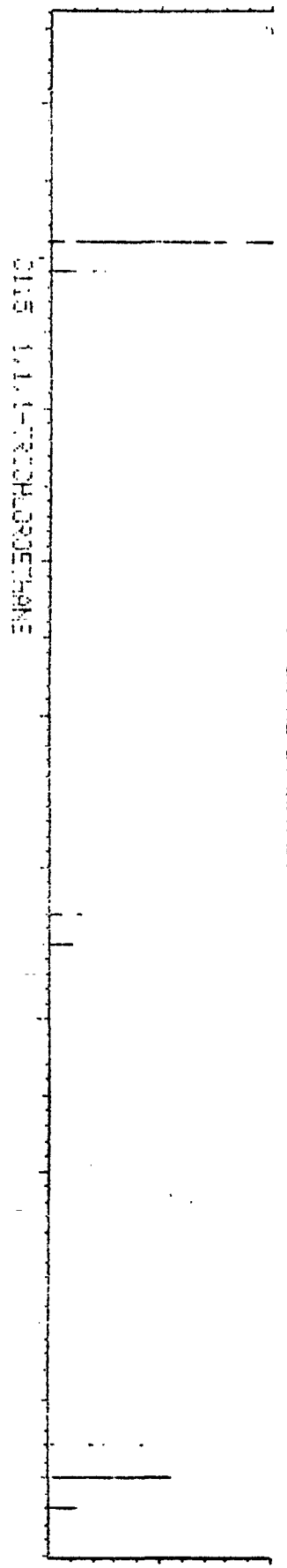


ARI02969

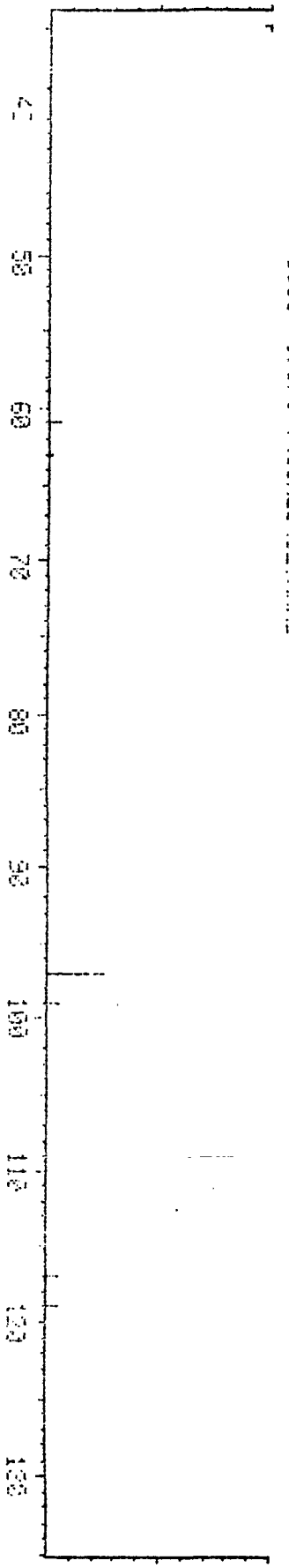
1725
M LT 0.000
PK 95
REFK 1
000
200 670



1725
M LT 0.000
PK 95
REFK 1
000
200 670



1725
M LT 0.000
PK 95
REFK 1
000
200 670



M/Z 40 50 60 70 80 90 100 110 120 130 140 150

1216
SAMPLE

LIBRARY SEARCH
12/16/87 14:25:08 + 20:58
SAMPLE: A711041-04 (100 UL)
CONDOS.: 8' X 2MM ID 175P1000 35(2.5) TO 220 @80/MIN

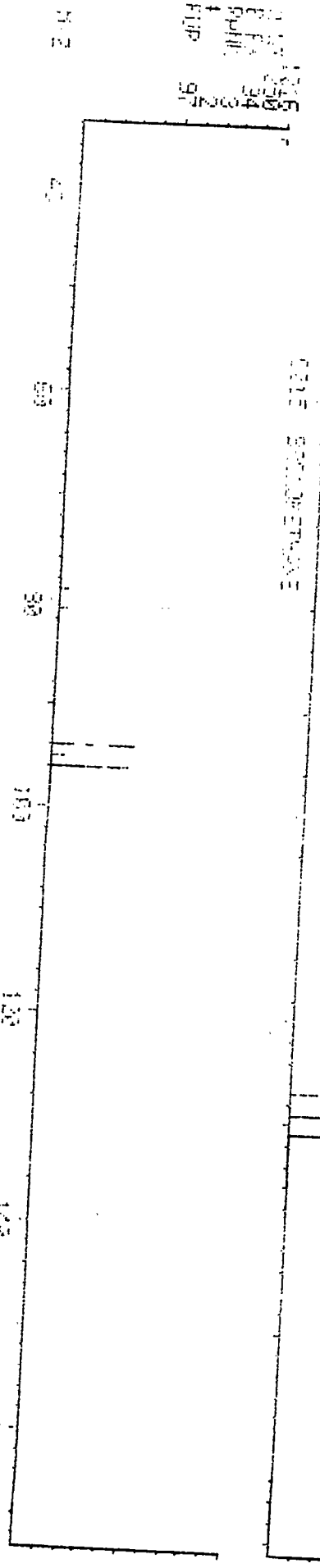
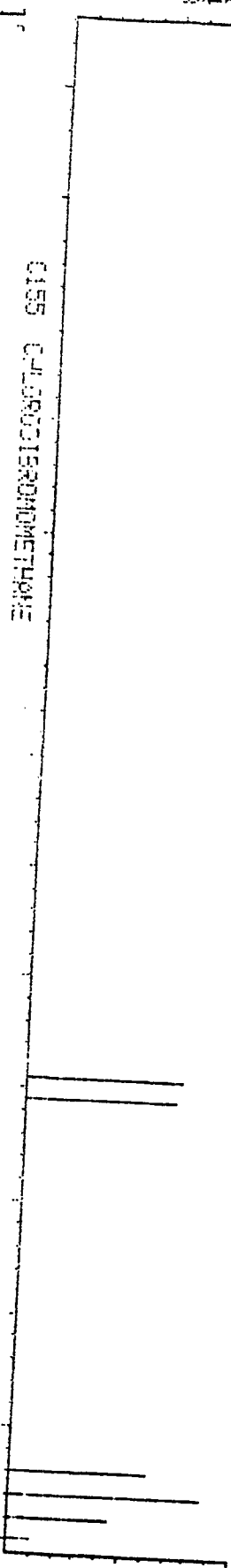
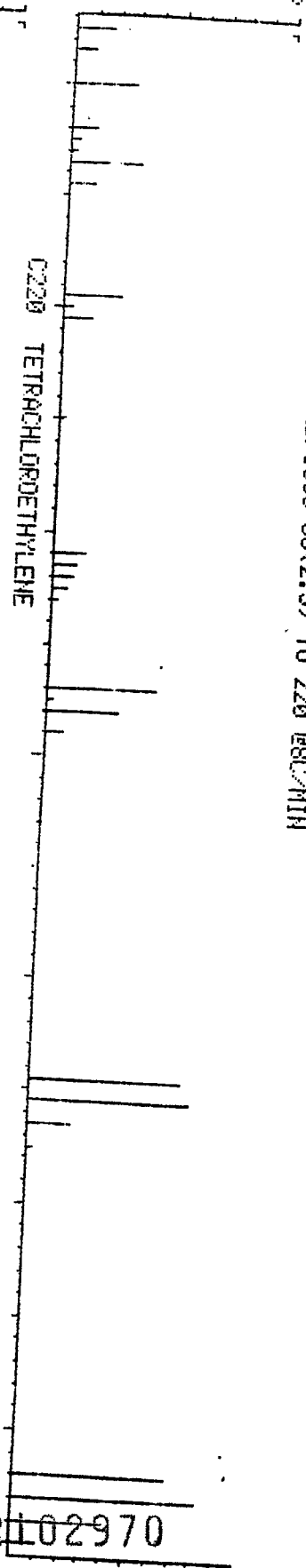
DATA: 45316 # 629
CALL: 45316 # 2

BASE M/Z: 166
FIC: 2607.

1216
M WT 350
3 PK 166
44
PUR 693

1216
M WT 350
3 PK 166
44
PUR 693

1216
M WT 350
3 PK 166
44
PUR 693



ARL02970

102

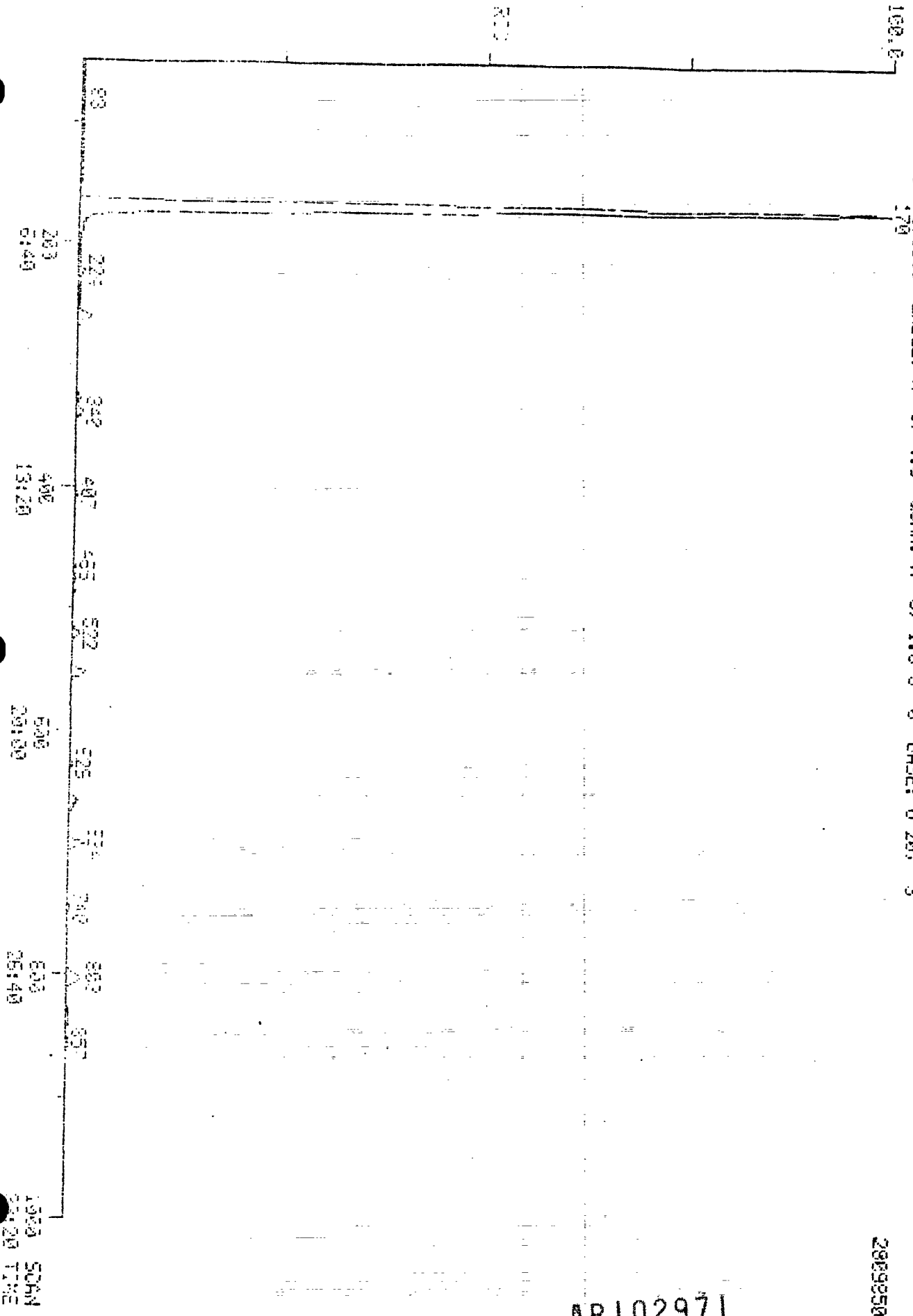
206

RIC
 12/10/87 14:25:00
 SAMPLE: A711041-04 (100 UL)
 COND.: 8" X 2MM ID :ZSP1000 36(2.5) TO 220 @8C/MIN
 RANGE: 0 1/1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 45316 #1
 CALL: 45316 #2
 SCANS 50 TO 1000

2809250.

AR102971

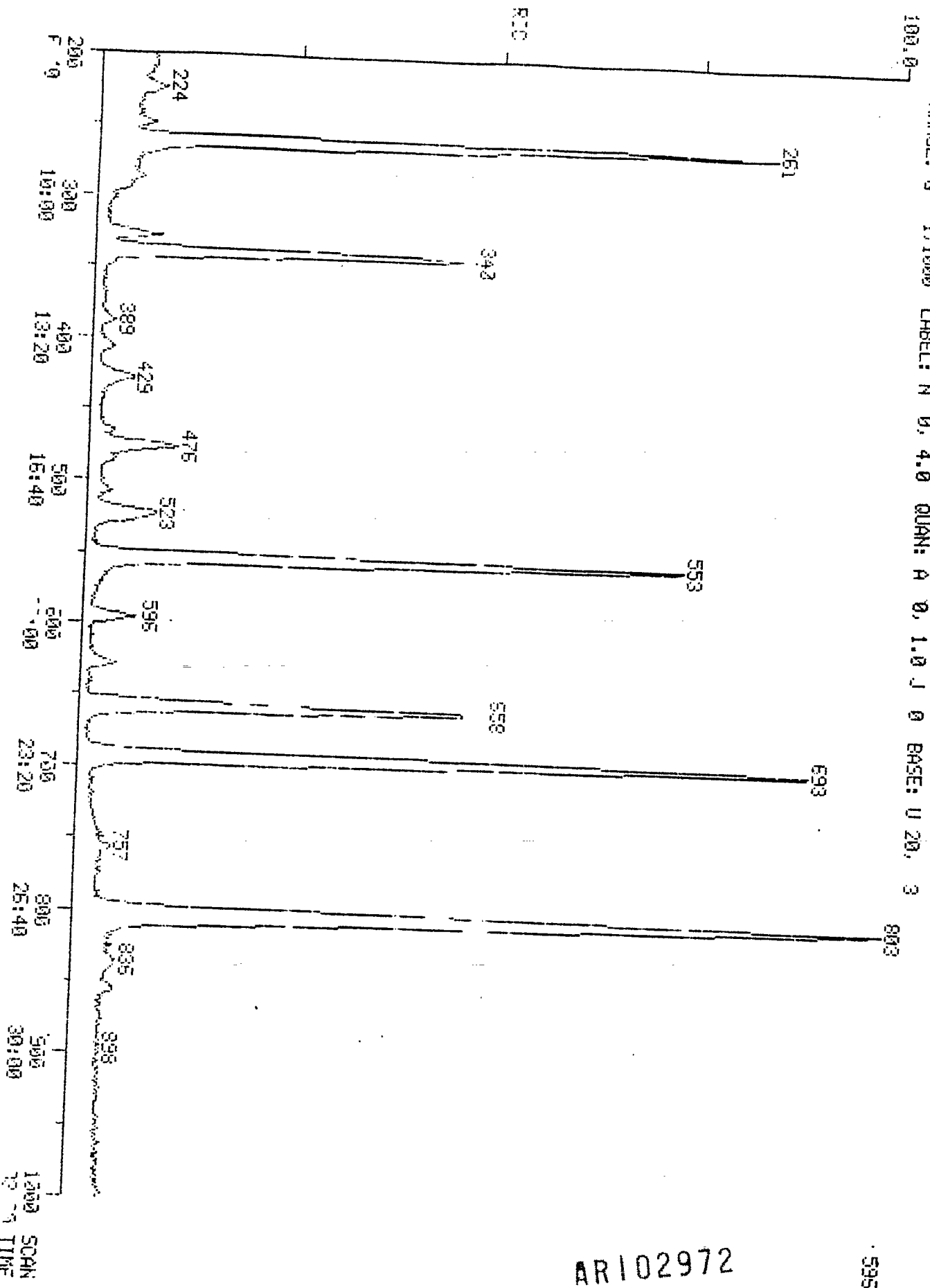


2.2 2.25 3.42 4.07 4.95 5.22 5.25 5.74 6.40 6.80 6.97
 203 01:48 400 13:20 500 20:00 600 26:46 1000 01:20
 SOBN TIME

1.0281

IC
 12/18/87 12:13:00
 SAMPLE: A711041-01 (100 UL)
 COND5.: 8' X 2MM ID 125P1000 35(2.5) TD 220 @8C/MIN
 RANGE: 0 1.1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 45313 #1
 CALL: 45313 #2
 SCANS 200 TO 1000



AR102972

59548.

V 208

Quantitation Report File: 45313

Data: 45313.11

.2/10/87 12:13:00

Sample: A711041-01 (100 UL)

Conds.: 8' X 2MM ID 1%SP1000 36(2.5) TO 220 @80/MIN

Formula:

Instrument: 5100

Weight: 0.000

Submitted by: WESTON

Analyst: JAP

Acct. No.: P&T

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

Resp. fac. from average of whole .KL

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL STANDARD)
2	CI10 1,4-DIFLUOROBENZENE (INTERNAL STANDARD)
3	CI20 CHLOROBENZENE-D5 (INTERNAL STANDARD)
4	CS15 DICHLOROETHANE-D4 (SURROGATE)
5	CS05 TOLUENE-DB (SURROGATE)
6	CS10 BROMOFLUOROBENZENE (SURROGATE)
7	C020 VINYL CHLORIDE (CCC)
8	C045 1,1-DICHLOROETHENE (CCC)
9	C060 CHLOROFORM (CCC)
10	C140 1,2-DICHLOROPROPANE (CCC)
11	C230 TOLUENE (CCC)
12	C240 ETHYL BENZENE (CCC)
13	C010 CHLOROMETHANE (SPCC)
14	C050 1,1-DICHLOROETHANE (SPCC)
15	C180 TRIBROMOMETHANE (BROMOFORM)
16	C225 1,1,2,2-TETRACHLOROETHANE (SPCC)
17	C235 CHLOROBENZENE (SPCC)
18	C121 DICHLOROFLUOROMETHANE
19	C025 CHLOROETHANE
20	C029 ETHYLENE OXIDE
21	C015 BROMOMETHANE
22	C122 TRICHLOROFLUOROMETHANE
23	C181 ACETONITRILE
24	C016 IODOMETHANE
25	C040 CARBON DISULFIDE
26	C030 METHYLENE CHLORIDE
27	C183 ACRYLONITRILE
28	C055 TRANS-1,2-DICHLOROETHENE
29	C182 ACROLEIN
30	C179 PROPANENITRILE
31	C035 ACETONE
32	C115 1,1,1-TRICHLOROETHANE
33	C120 CARBON TETRACHLORIDE
34	C165 BENZENE
35	C065 1,2-DICHLOROETHANE
36	C150 TRICHLOROETHYLENE
37	C076 METHYL METHACRYLATE
38	C031 DIBROMOMETHANE
39	C130 BROMODICHLOROMETHANE
40	C125 VINYL ACETATE
41	C143 CIS-1,3-DICHLOROPROPENE
42	C145 TRANS-1,3-DICHLOROPROPENE
43	C077 ETHYL METHACRYLATE
44	C220 TETRACHLOROETHYLENE
45	C205 4-METHYL-2-PENTANONE (MIBK)
46	C155 CHLORODIBROMOMETHANE
47	C066 1,2-DIBROMOETHANE

AR102973

5207

No Name
48 C224 1, 1, 1, 2-TETRACHLOROETHANE
49 C250 M-XYLENE
50 C160 1, 1, 2-TRICHLOROETHANE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	130	261	8:42	1	1.000	A BB	40133.	50.000 PPB	4.41
2	114	553	18:26	2	1.000	A BB	98531.	50.000 PPB	4.41
3	82	693	23:06	3	1.000	A BB	58184.	50.000 PPB	4.41
4	65	340	11:20	1	1.303	A BB	52634.	44.563 PPB	3.93
5	98	658	21:56	3	0.949	A BB	58424.	51.125 PPB	4.51
6	95	803	26:46	3	1.159	A BB	92063.	56.076 PPB	4.95
7	NOT FOUND								
8	61	245	8:10	1	0.939	A BB	353.	0.158 PPB	0.01
9	83	321	10:42	1	1.230	A BB	514.	0.223 PPB	0.02
10	NOT FOUND								
11	91	664	22:08	3	0.958	A BB	2656.	1.077 PPB	0.10
12	91	749	24:58	3	1.081	A BB	1669.	0.432 PPB	0.04
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	112	696	23:12	3	1.004	A BB	418.	0.216 PPB	0.02
18	85	82	2:44	1	0.314	A BB	5068.	3.372 PPB	0.30
19	64	111	3:42	1	0.425	A BB	71.	0.119 PPB	0.01
20	44	62	2:04	1	0.238	A VB	1758.	6.020 PPB	0.53
21	NOT FOUND								
22	101	224	7:28	1	0.858	A BB	4815.	1.587 PPB	0.14
23	41	247	8:14	1	0.946	A VB	436.	0.260 PPB	0.02
24	NOT FOUND								
25	76	209	6:58	1	0.801	A BB	1344.	0.491 PPB	0.04
26	84	169	5:38	1	0.648	A BB	722838.	576.989 PPB	50.90
27	53	212	7:04	1	0.812	A BB	298.	1.510 PPB	0.13
28	61	303	10:06	1	1.161	A BB	171.	0.123 PPB	0.01
29	NOT FOUND								
30	NOT FOUND								
31	43	196	6:32	1	0.751	A BB	5019.	20.166 PPB	1.78
32	NOT FOUND								
33	117	386	12:52	2	0.698	A BB	257.	0.156 PPB	0.01
34	78	477	15:54	2	0.863	A BB	1497.	0.808 PPB	0.07
35	62	342	11:24	1	1.310	A BB	233.	0.153 PPB	0.01
36	130	468	15:36	2	0.846	A BB	987.	0.873 PPB	0.08
37	69	553	18:26	2	1.000	A BB	4041.	6.418 PPB	0.57
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	69	660	22:00	3	0.952	A BB	839.	1.021 PPB	0.09
44	166	629	20:58	3	0.908	A BB	1827.	0.970 PPB	0.09
45	43	574	19:08	3	0.828	A VV	909.	1.531 PPB	0.14
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								
49	91	749	24:58	3	1.081	A BB	1669.	0.432 PPB	0.04
50	NOT FOUND								

AR102974

210

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	8:50	0.98	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	18:36	0.99	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	23:18	0.99	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	11:28	0.99	1.298	1.00	44.56	50.00	1.175	1.319	0.89
5	22:06	0.99	0.948	1.00	51.12	50.00	1.069	1.045	1.02
6	26:58	0.99	1.157	1.00	56.08	50.00	1.737	1.549	1.12
7	2:56		0.332						
8	8:22	0.98	0.947	0.99	0.16	10.00	0.040	2.554	0.02
9	10:52	0.98	1.230	1.00	0.22	10.00	0.058	2.615	0.02
10	14:54		0.801						
11	22:14	1.00	0.954	1.00	1.08	10.00	0.222	2.065	0.11
12	25:06	0.99	1.077	1.00	0.43	10.00	0.143	3.308	0.04
13	1:16		0.143						
14	9:34		1.083						
15	18:56		1.018						
16	21:08		0.907						
17	23:22	0.99	1.003	1.00	0.22	10.00	0.036	1.676	0.02
18	2:52	0.95	0.325	0.97	3.37	10.00	0.555	1.645	0.34
19	3:50	0.97	0.434	0.98	0.12	10.00	0.008	0.672	0.01
20	2:08	0.97	0.247	0.96	6.02	50.00	0.019	0.161	0.12
21	2:12		0.249						
22	7:38	0.98	0.864	0.99	1.59	10.00	0.544	3.429	0.16
23	8:22	0.98	0.947	1.00	0.26	10.00	0.050	1.922	0.03
24	5:14		0.592						
25	7:06	0.98	0.804	1.00	0.49	10.00	0.155	3.163	0.05
26	5:46	0.98	0.653	0.99	576.99	10.00	97.457	1.689	57.70
27	7:08	0.99	0.808	1.01	1.51	50.00	0.007	0.219	0.03
28	10:16	0.98	1.162	1.00	0.12	10.00	0.020	1.624	0.01
29	6:32		0.757						
30	8:10		0.925						
31	6:32	1.00	0.740	1.02	20.17	10.00	0.972	0.482	2.02
32	12:42		0.683						
33	13:02	0.99	0.701	1.00	0.16	10.00	0.013	0.843	0.02
34	16:06	0.99	0.866	1.00	0.81	10.00	0.076	0.940	0.08
35	11:34	0.99	1.309	1.00	0.15	10.00	0.027	1.754	0.02
36	15:42	0.99	0.844	1.00	0.87	10.00	0.053	0.609	0.09
37	18:34	0.99	0.998	1.00	6.42	50.00	0.031	0.243	0.13
38	11:46		0.633						
39	15:42		0.844						
40	6:32		0.351						
41	15:10		0.815						
42	16:24		0.882						
43	22:12	0.99	0.953	1.00	1.02	50.00	0.015	0.726	0.02
44	21:06	0.99	0.906	1.00	0.97	10.00	0.165	1.698	0.10
45	19:16	0.99	0.827	1.00	1.53	10.00	0.071	0.462	0.15
46	16:22		0.880						
47	17:14		0.927						
48	19:04		1.025						
49	25:06	0.99	1.077	1.00	0.43	10.00	0.143	3.308	0.04
50	16:24		0.882						

V 211

Quantitation Report File: 45313

Data: 45313.TI

2/10/97 12:13.00

Sample: A711041-01 (100 UL)

Conds.: 8' X 2MM ID 1%SP1000 36(2.5) TD 220 @80/MIN

Formula:

Instrument: 5100

Weight: 0.000

Submitted by: WESTON

Analyst: JAP

Acct. No.: P&T

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

Resp. fac. from average of whole .RL

- No Name
- 51 C250 O&P-XYLENE
- 52 C245 STYRENE
- 53 C161 1,2,3-TRICHLOROPROPANE
- 54 C210 2-HEXANONE
- 55 C226 TRANS-1,4-DICHLORO-2-BUTENE
- 56 C144 1,2-DIBROMO-3-CHLOROPROPANE
- 57 C110 METHYL ETHYL KETONE (MEK)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	91	858	28:36	3	1.238	A BB	3393.	1.027 PPB	0.09
52	104	831	27:42	3	1.199	A BB	731.	0.421 PPB	0.04
53	NOT FOUND								
54	NOT FOUND								
55	NOT FOUND								
56	NOT FOUND								
57	43	341	11:22	1	1.307	A BB	15749.	205.507 PPB	18.13

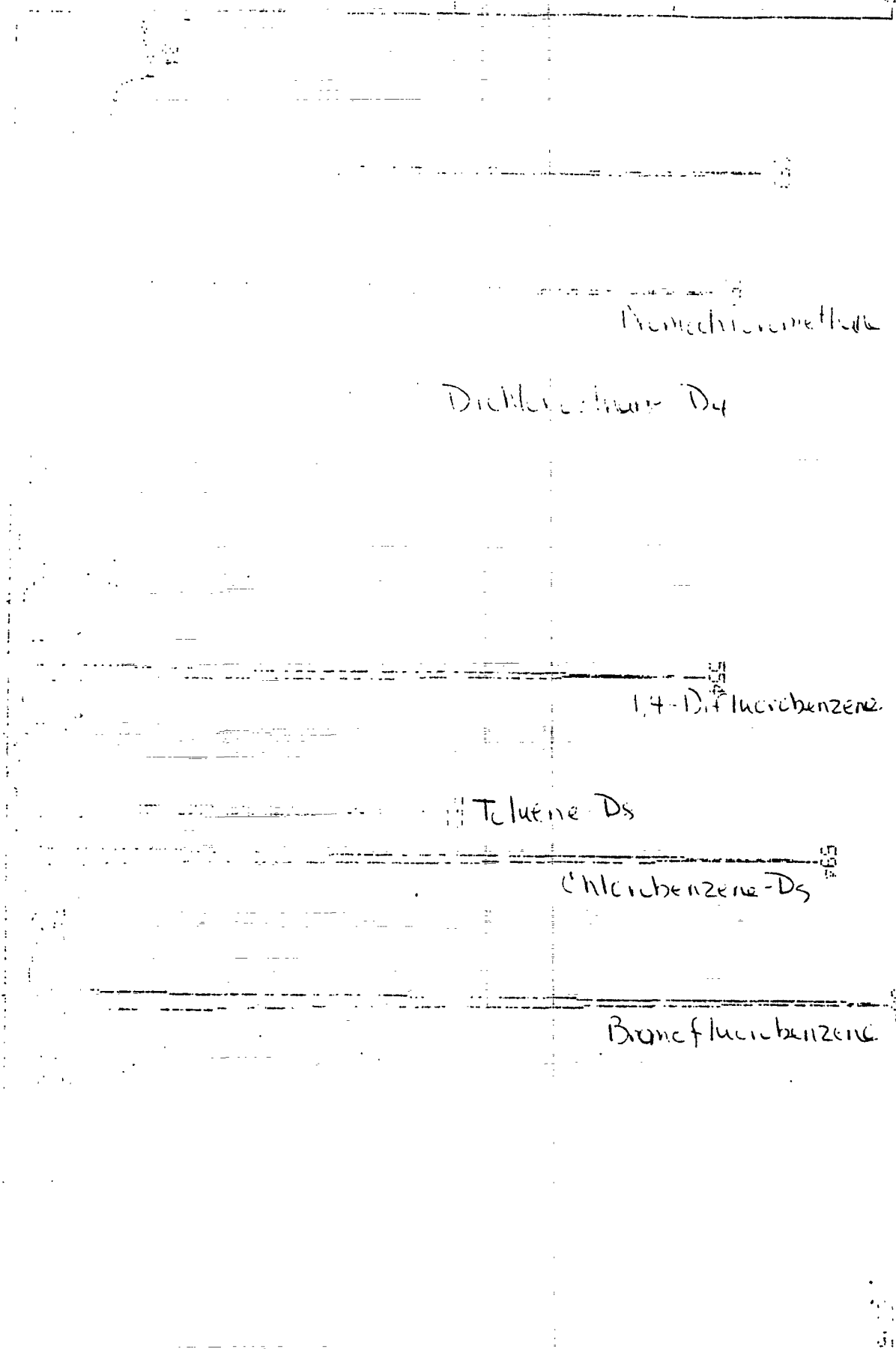
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
51	28:44	1.00	1.233	1.00	1.03	20.00	0.143	2.791	0.05
52	27:54	0.99	1.197	1.00	0.42	10.00	0.063	1.498	0.04
53	20:52		1.122						
54	20:46		2.351						
55	21:24		0.718						
56	25:28		1.093						
57	10:38	1.07	1.204	1.09	205.51	10.00	0.998	0.049	20.55

AR102976

212

100.0

FID
 12-10-87 11:17:00
 SAMPLE: 45314 #1
 45314 #2
 DATE: 12-10-87
 TIME: 11:17:00
 INJECTOR: 1.0
 OVEN: 1.0
 GAS: 1.0
 CELL: A 0, 1.0 J 0
 BASE: U 20, 3
 DATA: 45314 #1
 CALL: 45314 #2
 SCALE: 50 TO 1000



ARI02977

C-273

DATE: 45314 #1

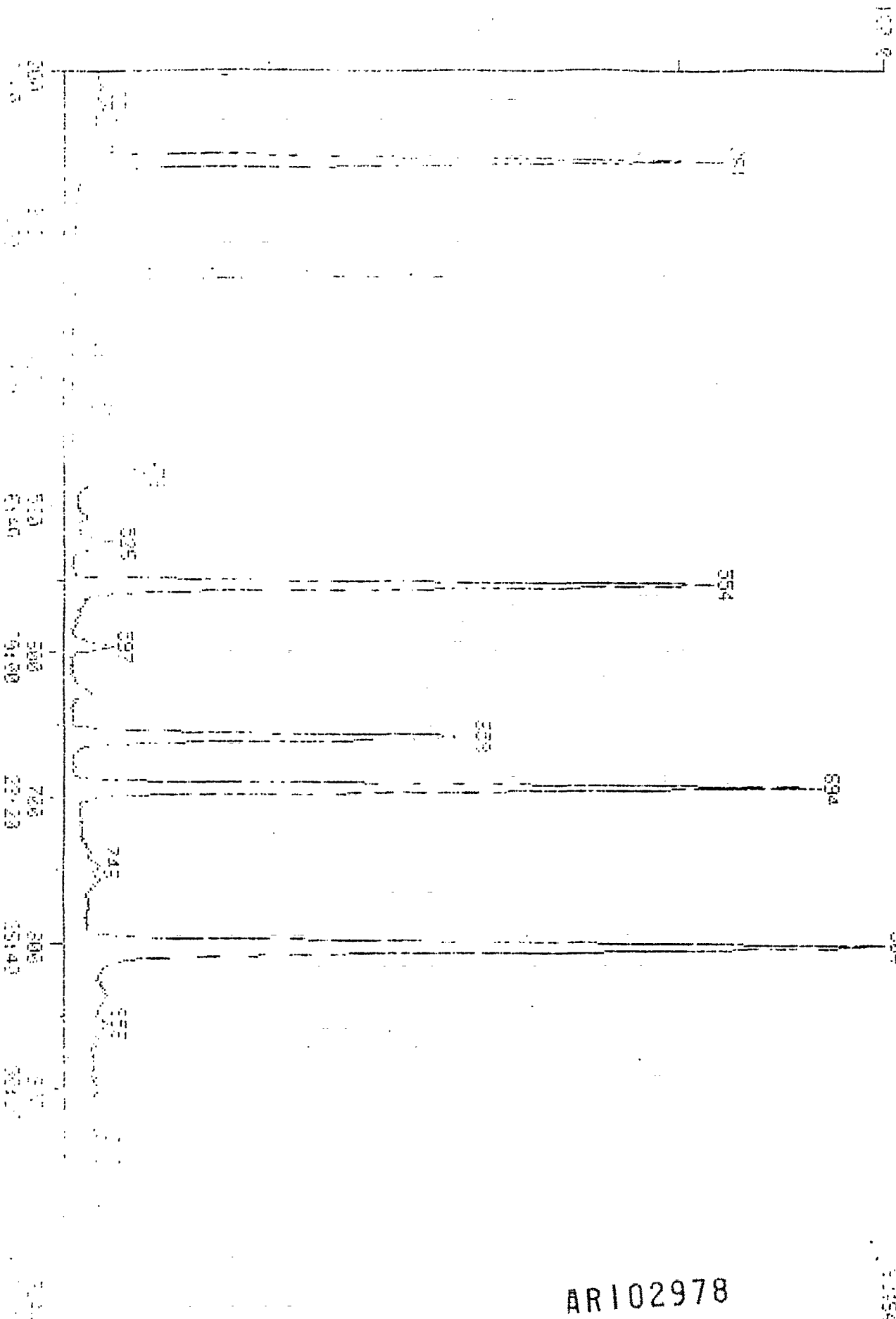
DATA: 45314 #2

SCANS: 209 TO 1093

SAMPLE: 0.5 TO 220 SEC/MIN

PARAM: 1.0 J 0.0 1.0 J 0.0

3



ARI02978

22254

V-217

Sample: 11041-02 (100 UL)
 C1410 10 X 2MM ID 1/43P10 W 3342 01 10 225 880/MIN
 Method: ...
 Supplier: WESTON
 Analyst: ...
 Weight: 0.000
 Acct No: 787

11	0101	METHANE
12	0102	ETHANE
13	0103	PROPANE
14	0104	BUTANE
15	0105	PENTANE
16	0106	HEXANE
17	0107	HEPTANE
18	0108	OCTANE
19	0109	NONANE
20	0110	DECANE
21	0111	UNDECANE
22	0112	DODECANE
23	0113	TRIDECANE
24	0114	TETRADECANE
25	0115	PENTADECANE
26	0116	HEXADECANE
27	0117	HEPTADECANE
28	0118	OCTADECANE
29	0119	NONADECANE
30	0120	DODECANE
31	0121	TRIDECANE
32	0122	TETRADECANE
33	0123	PENTADECANE
34	0124	HEXADECANE
35	0125	HEPTADECANE
36	0126	OCTADECANE
37	0127	NONADECANE
38	0128	DODECANE
39	0129	TRIDECANE
40	0130	TETRADECANE
41	0131	PENTADECANE
42	0132	HEXADECANE
43	0133	HEPTADECANE
44	0134	OCTADECANE
45	0135	NONADECANE
46	0136	DODECANE
47	0137	TRIDECANE
48	0138	TETRADECANE
49	0139	PENTADECANE
50	0140	HEXADECANE
51	0141	HEPTADECANE
52	0142	OCTADECANE
53	0143	NONADECANE
54	0144	DODECANE
55	0145	TRIDECANE
56	0146	TETRADECANE
57	0147	PENTADECANE
58	0148	HEXADECANE
59	0149	HEPTADECANE
60	0150	OCTADECANE
61	0151	NONADECANE
62	0152	DODECANE
63	0153	TRIDECANE
64	0154	TETRADECANE
65	0155	PENTADECANE
66	0156	HEXADECANE
67	0157	HEPTADECANE
68	0158	OCTADECANE
69	0159	NONADECANE
70	0160	DODECANE
71	0161	TRIDECANE
72	0162	TETRADECANE
73	0163	PENTADECANE
74	0164	HEXADECANE
75	0165	HEPTADECANE
76	0166	OCTADECANE
77	0167	NONADECANE
78	0168	DODECANE
79	0169	TRIDECANE
80	0170	TETRADECANE
81	0171	PENTADECANE
82	0172	HEXADECANE
83	0173	HEPTADECANE
84	0174	OCTADECANE
85	0175	NONADECANE
86	0176	DODECANE
87	0177	TRIDECANE
88	0178	TETRADECANE
89	0179	PENTADECANE
90	0180	HEXADECANE
91	0181	HEPTADECANE
92	0182	OCTADECANE
93	0183	NONADECANE
94	0184	DODECANE
95	0185	TRIDECANE
96	0186	TETRADECANE
97	0187	PENTADECANE
98	0188	HEXADECANE
99	0189	HEPTADECANE
100	0190	OCTADECANE

ARI02979

U 270

11 000
 12 000
 13 000

Line	Grain	Time	Ref	PST	Math	Spec(Hght)	Amount	WTC
1	151	8:42	1	107	A 08	10419	30 000 PPB	2 57
2					A 08	11153	20 000 PPB	3 52
3					A 08	11153	20 000 PPB	3 52
4					A 08	11153	20 000 PPB	3 52
5					A 08	11153	20 000 PPB	3 52
6					A 08	11153	20 000 PPB	3 52
7					A 08	11153	20 000 PPB	3 52
8					A 08	11153	20 000 PPB	3 52
9					A 08	11153	20 000 PPB	3 52
10					A 08	11153	20 000 PPB	3 52
11					A 08	11153	20 000 PPB	3 52
12					A 08	11153	20 000 PPB	3 52
13					A 08	11153	20 000 PPB	3 52
14					A 08	11153	20 000 PPB	3 52
15					A 08	11153	20 000 PPB	3 52
16					A 08	11153	20 000 PPB	3 52
17					A 08	11153	20 000 PPB	3 52
18					A 08	11153	20 000 PPB	3 52
19					A 08	11153	20 000 PPB	3 52
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23					A 08	11153	20 000 PPB	3 52
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25					A 08	11153	20 000 PPB	3 52
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27					A 08	11153	20 000 PPB	3 52
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57					A 08	11153	20 000 PPB	3 52
58					A 08	11153	20 000 PPB	3 52
59					A 08	11153	20 000 PPB	3 52
60					A 08	11153	20 000 PPB	3 52
61					A 08	11153	20 000 PPB	3 52
62					A 08	11153	20 000 PPB	3 52
63					A 08	11153	20 000 PPB	3 52
64					A 08	11153	20 000 PPB	3 52
65					A 08	11153	20 000 PPB	3 52
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75					A 08	11153	20 000 PPB	3 52
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78					A 08	11153	20 000 PPB	3 52
79					A 08	11153	20 000 PPB	3 52
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81					A 08	11153	20 000 PPB	3 52
82					A 08	11153	20 000 PPB	3 52
83					A 08	11153	20 000 PPB	3 52
84					A 08	11153	20 000 PPB	3 52
85					A 08	11153	20 000 PPB	3 52
86					A 08	11153	20 000 PPB	3 52
87					A 08	11153	20 000 PPB	3 52
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89					A 08	11153	20 000 PPB	3 52
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92					A 08	11153	20 000 PPB	3 52
93					A 08	11153	20 000 PPB	3 52
94					A 08	11153	20 000 PPB	3 52
95					A 08	11153	20 000 PPB	3 52
96					A 08	11153	20 000 PPB	3 52
97					A 08	11153	20 000 PPB	3 52
98					A 08	11153	20 000 PPB	3 52
99					A 08	11153	20 000 PPB	3 52
100					A 08	11153	20 000 PPB	3 52

ARI02980

C-291

Acquisition: 11/17/82 11:47:11

Date: 11/17/82

Time: 11:47:11

Sample: 111041 12.100 UL

Integrator: X EMM ID 140P1000 35(2.5) TO 320 330/MIN

Formula: Instrument: 5100

Sample: 84. WESTON

Analyst: JAP

Weight: 0.000
Acq. No: 111041

Method: 111041 12.100 UL

1. 111041 12.100 UL
2. 111041 12.100 UL
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97. 111041 12.100 UL
98. 111041 12.100 UL
99. 111041 12.100 UL
100. 111041 12.100 UL

No	Ret. Time	Area	Area(Hght)	Amount	%Tot
30	157.759	3515	3	1.094	A 82
31	157.759				
32	157.759				
33	157.759				
34	157.759				
35	157.759				
36	157.759				
37	157.759				
38	157.759				
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89	157.759				
90	157.759				
91	157.759				
92	157.759				
93	157.759				
94	157.759				
95	157.759				
96	157.759				
97	157.759				
98	157.759				
99	157.759				
100	157.759				

No	Ret. Time	Ratio	PRT(L) Ratio	Amnt	Amnt(L)	R Fac	R Fac(L)	Ratio
51	157.759							
52	157.759							
53	157.759							
54	157.759							
55	157.759							
56	157.759							
57	157.759							
58	157.759							
59	157.759							
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72	157.759							
73	157.759							
74	157.759							
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89	157.759							
90	157.759							
91	157.759							
92	157.759							
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96	157.759							
97	157.759							
98	157.759							
99	157.759							
100	157.759							

AR102982

E-298

SAMPLE WORKSHEET FOR VOLATILES

CONTRACT NAME WESTON
CONTRACT NUMBER 325-001-01-01
RADIAN CONTACT RICHARDSON

SAMPLE DESCRIPTION

SAMPLE NO. (SAM) A711041-02A ANALYTE(S) _____
TYPE AQUEOUS SOLID ORGANIC LIQUID SORBENT
 OTHER _____

SAMPLE IDENTIFIER 6578
COMMENTS _____

SAMPLE PREPARATION

DATE EXTRACTED 11-13-87

AQUEOUS SAMPLES

_____ 5 mL OR _____ mL (SMP*) DILUTED TO 5 mL H2O; DF= _____

SOLID SAMPLES

2.05 g (SMPSZ) INTO 30.1 mL Methanol (EXTVOL)
_____ mL Methanol (SMP*) ADDED TO 5mL H2O FOR ANALYSIS DF= _____

SURROGATE SPIKE: _____ uL OF _____ ug/mL _____, LOT# _____
COMMENT: _____

DATE SUBMITTED 11-16-87 SUBMITTED BY EE RECEIVED BY JAP

SAMPLE ANALYSIS

FRN _____ DATE ANALYZED _____ ANALYST _____
INTERNAL STANDARD VI-IS OTHER _____
AMOUNT ADDED ng 100 250 OTHER _____
COMMENT: _____

$$C_{ppm} = \frac{A_n \times CIS \text{ (ppm)} \times DF}{RF} \times \frac{EXTVOL}{SMPSZ} \quad DF = \frac{5}{SMP^*}$$

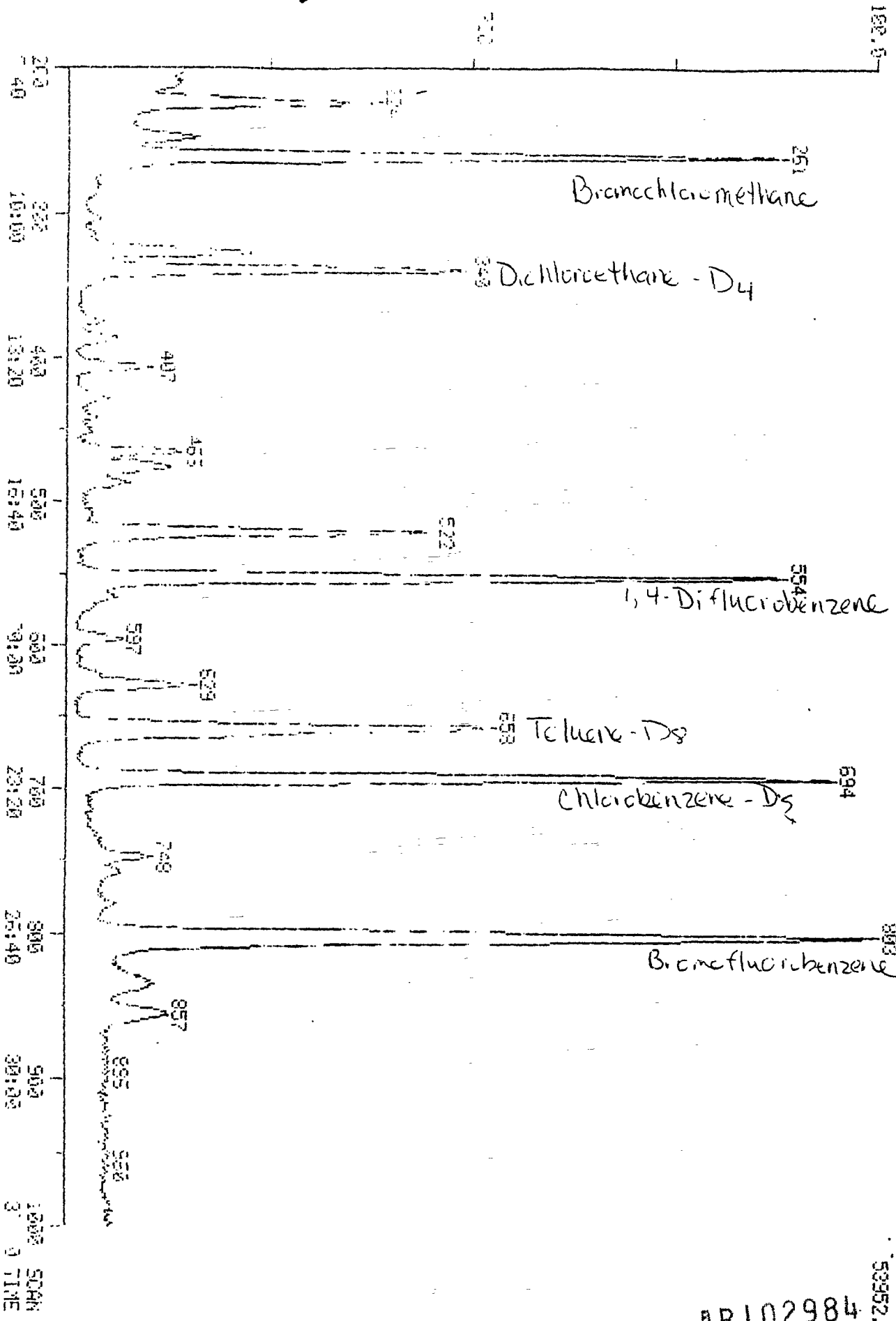
SURROGATE CONCENTRATION (Cs): _____ ppm

$$C_s = \frac{ug \text{ SPIKED}}{SMP^*} \times \frac{EXTVOL}{SMPSZ}$$

WVO.JSF

AR102983

E-299



PIC
12/10/87 14:25:08
SAMPLE: N711041-04 (100 UL)
CONDOS.: 8" X 2MM ID 125P1000 36(2.5) TO 220 @8C/MIN
PARGE: 5 1.1000 LABEL: H 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 45316 #1
CALL: 45316 #2

SCANS 200 TO 1000

53952.
AR102984

V 300

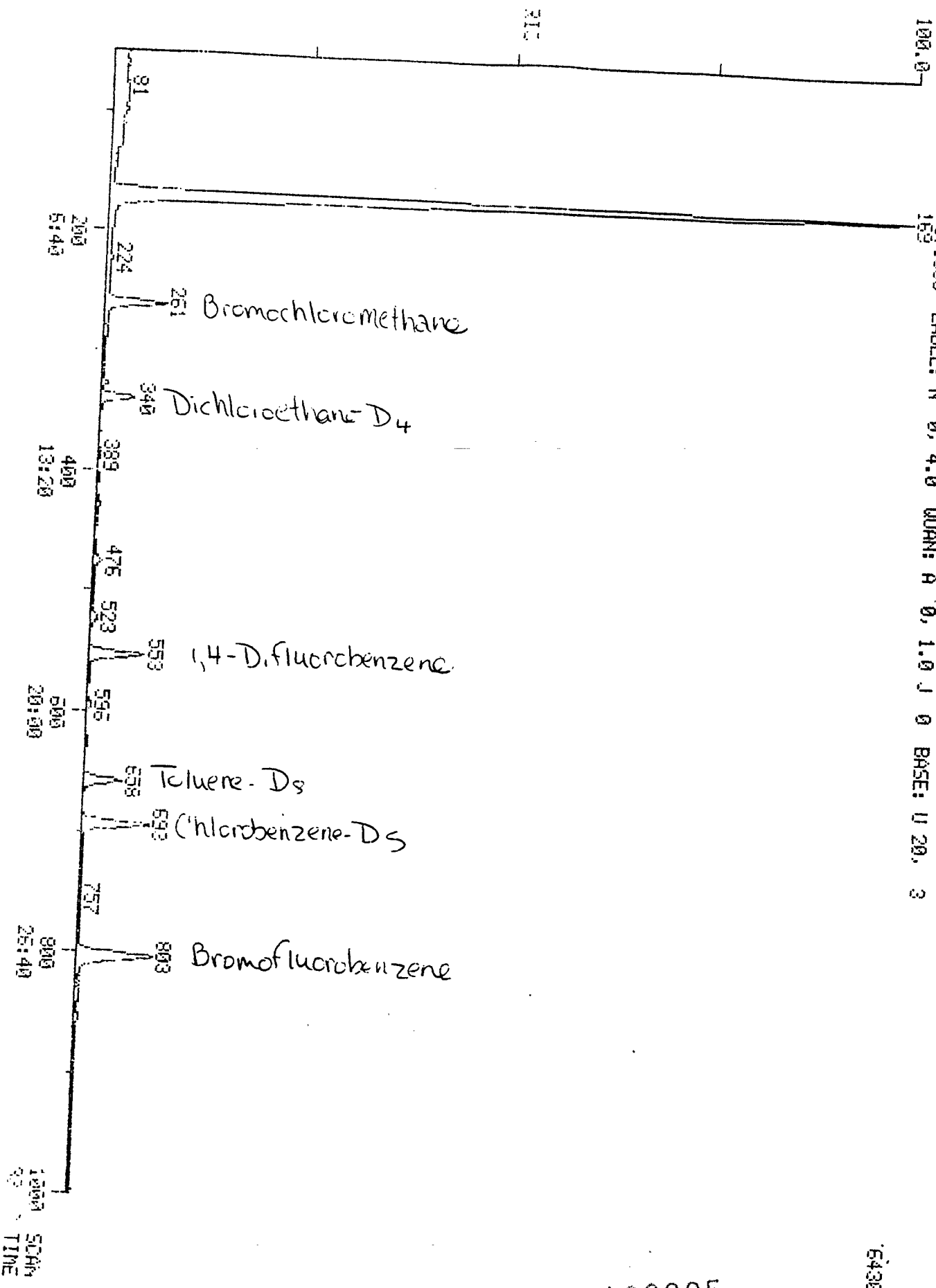
AR102985A

DIC
12/10/87 12:13:00
SAMPLE: 4711041-01 (100 UL)
COND.S.: 8' X 2MM ID 125F1000 35(2.5) TO 220 @8C/MIN
RANGE: 0 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 45313 #1
CALL: 45313 #2

SCANS 50 TO 1000

643072.



ARI02985

V 302

Quantitation Report File: 45320

Date: 45320.TI

12/10/87 17:21:00

Sample: A711041-08 (100 UL)

Conds.: 8' X 2MM ID 1%SP1000 35(2.5) TO 220 @BC/MIN

Formula:

Instrument: 5100

Weight: 0.000

Submitted by: WESTON

Analyst: JAP

Acct. No.: P&T

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

Resp. fac. from average of whole RL

No	Name
51	C250 O&P-XYLENE
52	C245 STYRENE
53	C161 1,2,3-TRICHLOROPROPANE
54	C210 2-HEXANONE
55	C226 TRANS-1,4-DICHLORO-2-BUTENE
56	C144 1,2-DIBROMO-3-CHLOROPROPANE
57	C110 METHYL ETHYL KETONE (MEK)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	91	856	28:32	3	1.235	A VB	1771.	0.531 PPB	0.05
52	104	829	27:38	3	1.196	A BB	919.	0.523 PPB	0.05
53	NOT FOUND								
54	43	615	20:30	1	2.356	A VB	364.	0.791 PPB	0.07
55	NOT FOUND								
56	NOT FOUND								
57	43	341	11:22	1	1.307	A BB	8002.	125.737 PPB	11.36

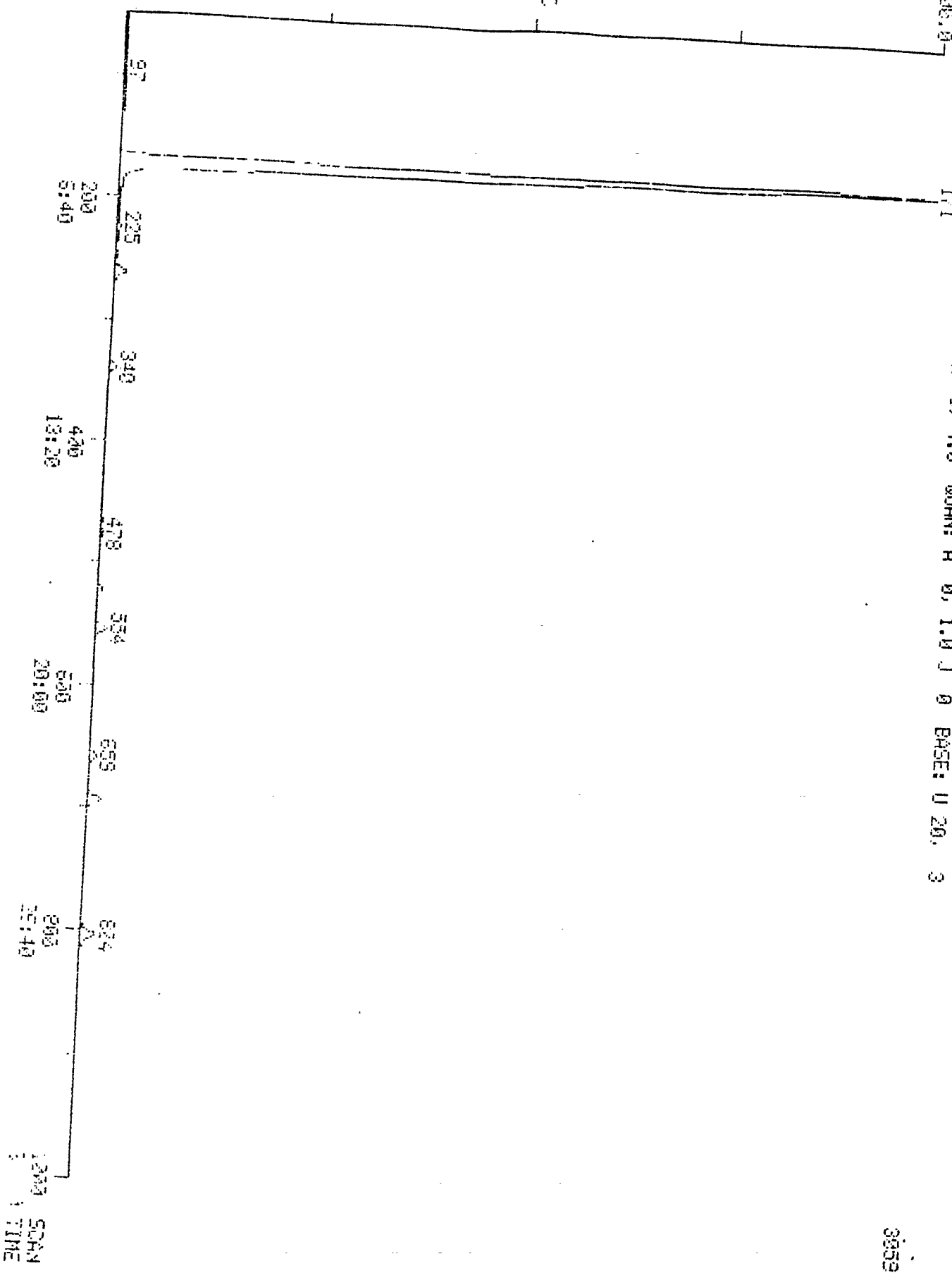
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
51	28:44	0.99	1.233	1.00	0.53	20.00	0.074	2.791	0.03
52	27:54	0.99	1.197	1.00	0.52	10.00	0.078	1.498	0.05
53	20:52		1.122						
54	20:46	0.99	2.351	1.00	0.79	10.00	0.056	0.709	0.08
55	21:24		0.918						
56	25:28		1.093						
57	10:38	1.07	1.204	1.07	125.74	10.00	0.611	0.049	12.57

AR102986

303

12/10/87 18:06:00
 SAMPLE: A711041-09 (100 UL)
 COND.S.: 8' X 2MM ID 125P1000 36(2.5) TO 220 08C/MIN
 RANGE: 0 1/1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 45322 #1
 CALL: 45322 #2
 SCANS 59 TO 1000



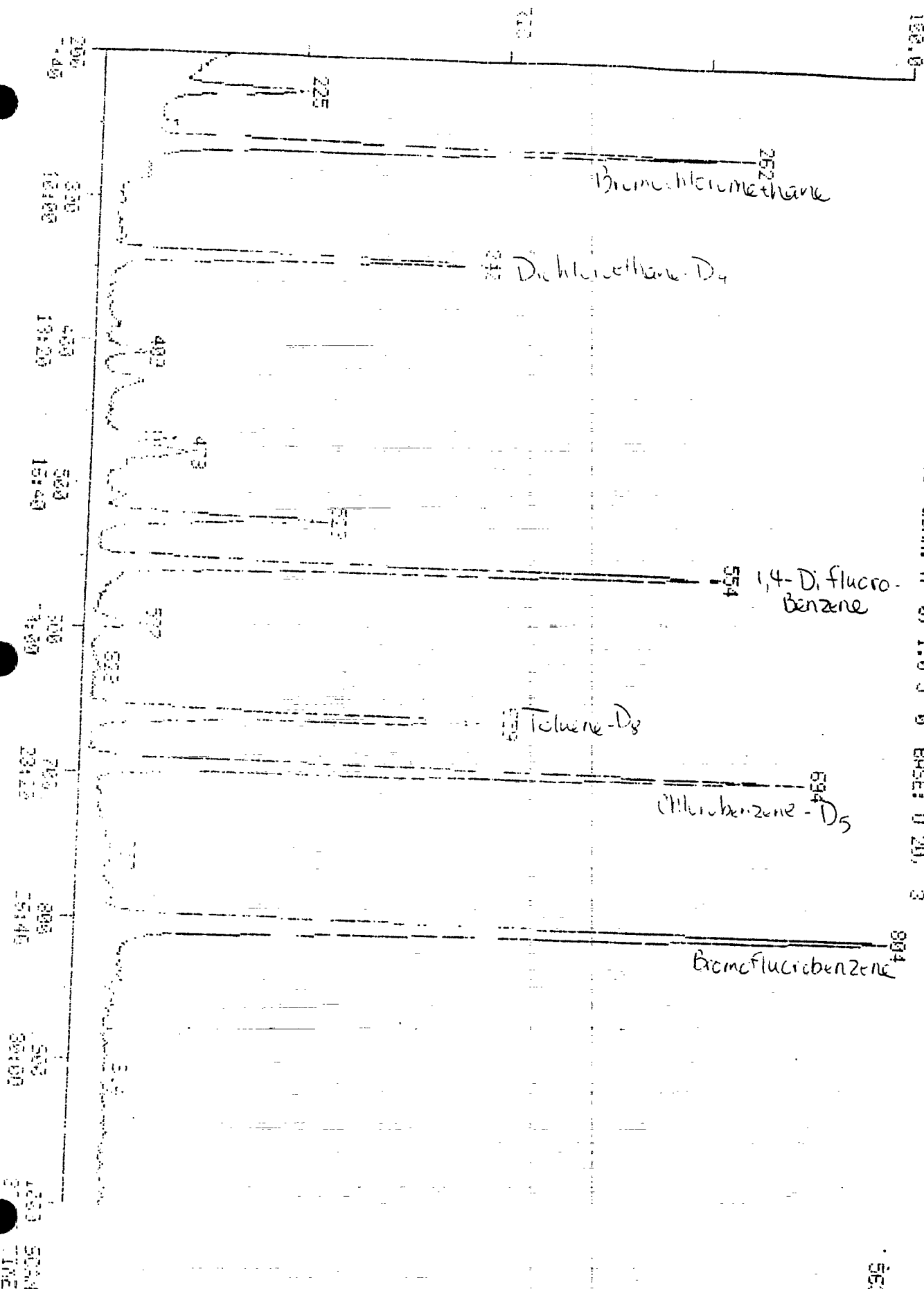
3859710.

AR102987

1200 SCAN TIME

1-304

RID
 12/10/87 18:06:00
 SAMPLE: A711041-09 (100 UL)
 CONDOS.: 8' X 2MM ID 125P1000 35(2.5) TO 220 @80/MIN
 RAHNER: G 1.1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
 DATA: 45322 #1
 CALL: 45322 #2
 SCANS 200 TO 1000



ARI02988

56384.

Quantitation Report File: 45022

Data: 45022.TI

12/10/87 18:06:00

Sample: A711041-09 (100 UL)

Conds.: 8' X 2MM ID 1%SP1000 35(2.5) TO 220 @8C/MIN

Formula:

Instrument: 5100

Weight: 0.000

Submitted by: WESTON

Analyst: JAP

Acct. No.: P&T

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

Resp. fac. from average of whole .RL

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL STANDARD)
2	CI10 1,4-DIFLUOROBENZENE (INTERNAL STANDARD)
3	CI20 CHLOROBENZENE-D5 (INTERNAL STANDARD)
4	CS15 DICHLOROETHANE-D4 (SURROGATE)
5	CS05 TOLUENE-D8 (SURROGATE)
6	CS10 BROMOFLUOROBENZENE (SURROGATE)
7	CO20 VINYL CHLORIDE (CCC)
8	CO45 1,1-DICHLOROETHENE (CCC)
9	CO60 CHLOROFORM (CCC)
10	CI40 1,2-DICHLOROPROPANE (CCC)
11	CO30 TOLUENE (CCC)
12	CO40 ETHYL BENZENE (CCC)
13	CO10 CHLOROMETHANE (SPCC)
14	CO50 1,1-DICHLOROETHANE (SPCC)
15	CI80 TRIBROMOMETHANE (BROMOFORM)
16	CO25 1,1,2,2-TETRACHLOROETHANE (SPCC)
17	CO35 CHLOROBENZENE (SPCC)
18	CI21 DICHLOROFLUOROMETHANE
19	CO25 CHLOROETHANE
20	CO29 ETHYLENE OXIDE
21	CO15 BROMOMETHANE
22	CI22 TRICHLOROFLUOROMETHANE
23	CI81 ACETONITRILE
24	CO16 IODOMETHANE
25	CO40 CARBON DISULFIDE
26	CO30 METHYLENE CHLORIDE
27	CI83 ACRYLONITRILE
28	CO55 TRANS-1,2-DICHLOROETHENE
29	CI82 ACROLEIN
30	CI79 PROPANENITRILE
31	CO35 ACETONE
32	CI15 1,1,1-TRICHLOROETHANE
33	CI20 CARBON TETRACHLORIDE
34	CI65 BENZENE
35	CO65 1,2-DICHLOROETHANE
36	CI50 TRICHLOROETHYLENE
37	CO76 METHYL METHACRYLATE
38	CO31 DIBROMOMETHANE
39	CI30 BROMODICHLOROMETHANE
40	CI25 VINYL ACETATE
41	CI43 CIS-1,3-DICHLOROPROPENE
42	CI45 TRANS-1,3-DICHLOROPROPENE
43	CO77 ETHYL METHACRYLATE
44	CO20 TETRACHLOROETHYLENE
45	CO25 4-METHYL-2-PENTANONE (MIBK)
46	CI55 CHLORODIBROMOMETHANE
47	CO66 1,2-DIBROMOETHANE

AR102989

C-506

No Name
48 C224 1, 1, 1, 2-TETRACHLOROETHANE
49 C250 M-XYLENE
50 C160 1, 1, 2-TRICHLOROETHANE

No	m/z	Scan	Time	Ref	PRT	Meth	Area(Hght)	Amount	%Tot
1	130	262	8:44	1	1.000	A BB	35335.	50.000 PPB	1.39
2	114	554	18:28	2	1.000	A BB	93312.	50.000 PPB	1.39
3	82	674	23:08	3	1.000	A BB	53120.	50.000 PPB	1.39
4	65	340	11:20	1	1.298	A BB	52418.	50.406 PPB	1.40
5	98	659	21:38	3	0.950	A BB	53652.	51.424 PPB	1.43
6	95	804	26:48	3	1.159	A BB	84413.	56.317 PPB	1.56
7	NOT FOUND								
8	61	248	8:16	1	0.947	A BB	64.	0.033 PPB	0.00
9	83	322	10:44	1	1.229	A BB	641.	0.316 PPB	0.01
10	NOT FOUND								
11	91	664	22:08	3	0.957	A BB	6144.	2.729 PPB	0.08
12	91	750	25:00	3	1.081	A BB	1171.	0.332 PPB	0.01
13	NOT FOUND								
14	63	281	9:22	1	1.073	A BB	100.	0.061 PPB	0.00
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	85	83	2:46	1	0.317	A BB	2127.	1.607 PPB	0.04
19	NOT FOUND								
20	44	60	2:00	1	0.229	A VB	5051.	19.648 PPB	0.55
21	94	62	2:04	1	0.237	A BB	114.	0.127 PPB	0.00
22	101	225	7:30	1	0.859	A BB	23241.	8.702 PPB	0.24
23	NOT FOUND								
24	NOT FOUND								
25	76	209	6:58	1	0.798	A BB	1472.	0.610 PPB	0.02
26	84	171	5:42	1	0.653	A BB	3334480.	3023.100 PPB	83.98
27	NOT FOUND								
28	NOT FOUND								
29	56	176	5:52	1	0.672	A BB	78.	14.460 PPB	0.40
30	NOT FOUND								
31	43	197	6:34	1	0.752	A BB	4303.	19.639 PPB	0.55
32	NOT FOUND								
33	NOT FOUND								
34	78	479	15:58	2	0.865	A BB	2564.	1.462 PPB	0.04
35	62	342	11:24	1	1.305	A BB	1750.	1.303 PPB	0.04
36	130	467	15:34	2	0.843	A BB	3980.	3.719 PPB	0.10
37	69	555	18:30	2	1.002	A BV	3771.	6.324 PPB	0.18
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	69	660	22:00	3	0.951	A BB	593.	0.790 PPB	0.02
44	166	629	20:58	3	0.906	A BB	324.	0.188 PPB	0.01
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								
49	91	750	25:00	3	1.081	A BB	1171.	0.332 PPB	0.01
50	97	490	16:20	2	0.884	A BB	107.	0.143 PPB	0.00

AR102990

V 201

No	Ret(L)	Ratio	RR(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	8:50	0.99	1.000	1.00					
2	18:36	0.99	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	23:18	0.99	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	11:28	0.99	1.298	1.00	50.00	50.00	1.000	1.000	1.00
5	22:06	0.99	0.948	1.00	50.41	50.00	1.329	1.319	1.00
6	26:58	0.99	1.157	1.00	51.42	50.00	1.075	1.045	1.03
7	2:56		0.332		56.32	50.00	1.744	1.549	1.13
8	8:22	0.99	0.947	1.00					
9	10:52	0.99	1.230	1.00	0.03	10.00	0.008	2.554	0.00
10	14:54		0.801		0.32	10.00	0.083	2.615	0.03
11	22:14	1.00	0.954	1.00					
12	25:06	1.00	1.077	1.00	2.73	10.00	0.564	2.065	0.27
13	1:16		0.143		0.33	10.00	0.110	3.308	0.03
14	9:34	0.98	1.083	0.99					
15	18:56		1.013		0.06	10.00	0.013	2.108	0.01
16	21:08		0.907						
17	23:22		1.003						
18	2:52	0.97	0.325	0.98					
19	3:50		0.434		1.61	10.00	0.264	1.645	0.16
20	2:08	0.94	0.247	0.93					
21	2:12	0.94	0.249	0.95	19.65	50.00	0.063	0.161	0.39
22	7:38	0.98	0.864	0.99	0.13	10.00	0.015	1.185	0.01
23	8:22		0.947		8.70	10.00	2.984	3.429	0.87
24	5:14		0.592						
25	7:06	0.98	0.804	0.99					
26	5:46	0.99	0.653	1.00	0.61	10.00	0.193	3.163	0.06
27	7:08		0.808		3023.10	10.00	510.618	1.689	302.31
28	10:16		1.162						
29	6:32	0.90	0.757	0.89					
30	8:10		0.925		14.46	100.00	0.001	0.007	0.14
31	6:32	1.01	0.740	1.02					
32	12:42		0.683		19.64	10.00	0.947	0.482	1.96
33	13:02		0.701						
34	16:06	0.99	0.866	1.00					
35	11:34	0.99	1.309	1.00	1.46	10.00	0.137	0.940	0.15
36	15:42	0.99	0.844	1.00	1.30	10.00	0.229	1.754	0.13
37	18:34	1.00	0.978	1.00	3.72	10.00	0.227	0.609	0.37
38	11:16		0.633		6.32	50.00	0.031	0.243	0.13
39	15:42		0.844						
40	6:32		0.351						
41	15:10		0.815						
42	16:24		0.882						
43	22:12	0.99	0.953	1.00					
44	21:06	0.99	0.906	1.00	0.79	50.00	0.011	0.726	0.02
45	19:16		0.827		0.19	10.00	0.032	1.698	0.02
46	16:22		0.880						
47	17:14		0.927						
48	19:04		1.025						
49	25:06	1.00	1.077	1.00					
50	16:24	1.00	0.882	1.00	0.33	10.00	0.110	3.308	0.03
					0.14	10.00	0.006	0.401	0.01

ARI02991

V-300

Quantitation Report File: 453P2

Data: 45122.T1

12/10/87 18:06:00

Sample: A711041-09 (100 UL)

Conds.: 8' X 2MM ID 1%SP1000 36(2.5) TD 220 @80/MIN

Formula: Instrument: 5100

Submitted by: WESTON

Analyst: JAP

Weight: 0.000

Acct. No.: P&T

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

Resp. fac. from average of whole .RI

No	Name
51	C250 O&P-XYLENE
52	C245 STYRENE
53	C161 1,2,3-TRICHLOROPROPANE
54	C210 2-HEXANONE
55	C226 TRANS-1,4-DICHLORO-2-BUTENE
56	C144 1,2-DIBROMO-3-CHLOROPROPANE
57	C110 METHYL ETHYL KETONE (MEK)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	91	855	28:30	3	1.232	A BB	1269.	0.421 PPB	0.01
52	104	832	27:44	3	1.199	A BB	827.	0.521 PPB	0.01
53	NOT FOUND								
54	NOT FOUND								
55	NOT FOUND								
56	NOT FOUND								
57	43	342	11:24	1	1.305	A BB	12498.	185.231 PPB	5.15

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
51	28:44	0.99	1.233	1.00	0.42	20.00	0.059	2.791	0.02
52	27:54	0.99	1.197	1.00	0.52	10.00	0.078	1.498	0.05
53	20:52		1.122						
54	20:46		2.031						
55	21:24		0.918						
56	25:28		1.093						
57	10:38	1.07	1.204	1.08	185.23	10.00	0.900	0.049	18.52

AR102992

V-001
SAMPLE WORKSHEET FOR VOLATILES

CONTRACT NAME WESTON
CONTRACT NUMBER 325-001-01-01
RADIAN CONTACT RICHARDSON

SAMPLE DESCRIPTION

SAMPLE NO. (SAM) A711041-09A ANALYTE(S) _____
TYPE [] AQUEOUS [] SOLID [] ORGANIC LIQUID [] SORBENT
[] OTHER _____

SAMPLE IDENTIFIER 6585
COMMENTS _____

SAMPLE PREPARATION

DATE EXTRACTED 11-13-87

AQUEOUS SAMPLES
_____ 5 mL OR _____ mL (SMP*) DILUTED TO 5 mL H2O; DF= _____

SOLID SAMPLES
2.18 g (SMPSZ) INTO 30.3 mL Methanol (EXTVOL)
_____ mL Methanol (SMP*) ADDED TO 5mL H2O FOR ANALYSIS DF= _____

SURROGATE SPIKE: _____ uL OF _____ ug/mL _____, LOT# _____
COMMENT: _____

DATE SUBMITTED 11-16-87 SUBMITTED BY EE RECEIVED BY QAP

SAMPLE ANALYSIS

FRN _____ DATE ANALYZED _____ ANALYST _____
INTERNAL STANDARD VI-IS OTHER _____
AMOUNT ADDED ng _____ 100 _____ 250 _____ OTHER _____
COMMENT: _____

$$C_{ppm} = \frac{A_n \times C_{IS} \text{ (ppm)} \times DF}{RF} \times \frac{EXTVOL}{SMPSZ} \quad DF = \frac{5}{SMP^*}$$

SURROGATE CONCENTRATION (Cs): _____ ppm

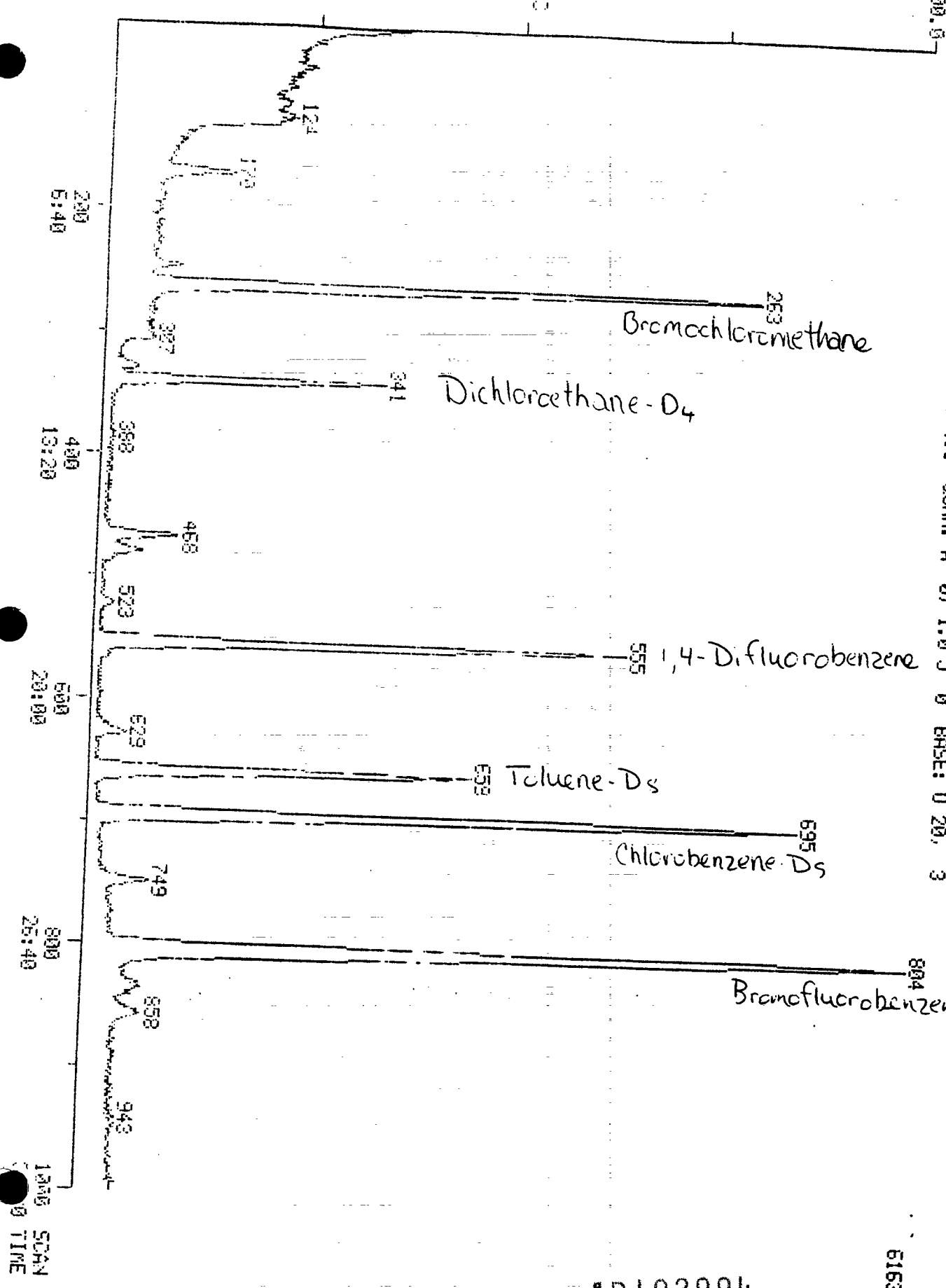
$$C_s = \frac{ug \text{ SPIKED}}{SMP^*} \times \frac{EXTVOL}{SMPSZ}$$

WVO.JSF

AR102993

RIC
 12/10/87 10:45:00
 SAMPLE: SYSTEM BLANK
 CONDS.: 8' X 2MM ID 125P1000 36(2.5) TO 220 @8C/MIN
 RANGE: 0 1.1000 LABEL: N 0, 4.0 QUANT: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 45311 #1
 CALL: 45311 #2
 SCANS 50 TO 1000



ARI02994

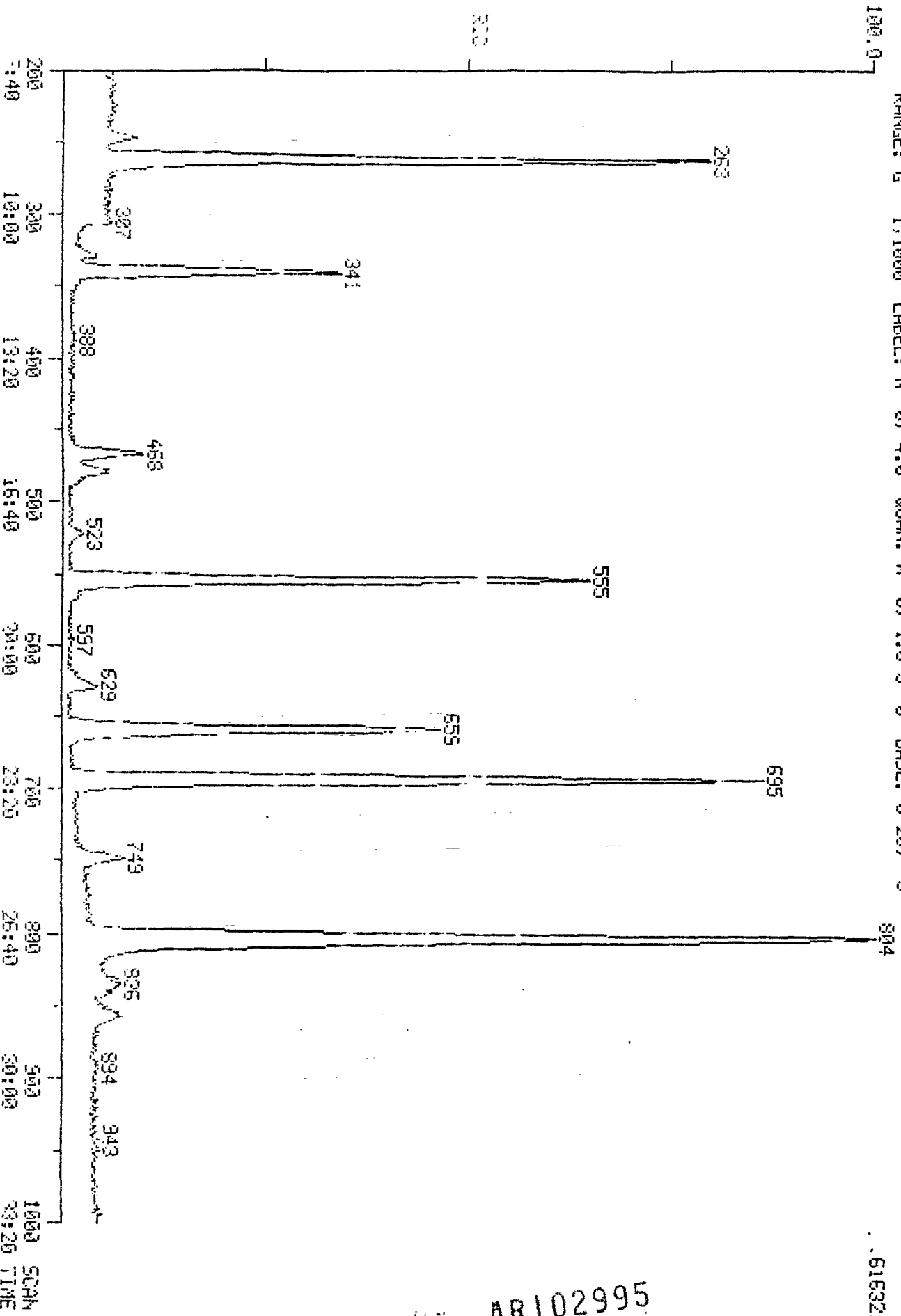
61632.

0.011

RIC
 12/10/87 10:45:00
 SAMPLE: SYSTEM BLANK
 COND.: 8' X 2MM ID 175P1000 36(2.5) TO 220 @8C/MIN
 RANGE: G 1.1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 45311 #1
 CALL: 45311 #2

SCANS 200 TO 1000



.61632.

AR102995

V 212

Quantitation Report File: 45311

Data: 45311.TI

12/10/87 10:45:00

Sample: SYSTEM BLANK

Conds.: 8' X 2MM ID 1%SP1000 36(2.5) TO 220 @80/MIN

Formula: Instrument: 5100

Submitted by: WESTON Analyst: JAP

Weight: 0.000

Acct. No.: P&T

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

Resp. fac. from average of whole .RL

- | No | Name |
|----|--|
| 1 | CI01 BROMOCHLOROMETHANE (INTERNAL STANDARD) |
| 2 | CI10 1,4-DIFLUOROBENZENE (INTERNAL STANDARD) |
| 3 | CI20 CHLOROBENZENE-D5 (INTERNAL STANDARD) |
| 4 | CS15 DICHLOROETHANE-D4 (SURROGATE) |
| 5 | CS05 TOLUENE-D8 (SURROGATE) |
| 6 | CS10 BROMOFLUOROBENZENE (SURROGATE) |
| 7 | C020 VINYL CHLORIDE (CCC) |
| 8 | C045 1,1-DICHLOROETHENE (CCC) |
| 9 | C060 CHLOROFORM (CCC) |
| 10 | C140 1,2-DICHLOROPROPANE (CCC) |
| 11 | C230 TOLUENE (CCC) |
| 12 | C240 ETHYL BENZENE (CCC) |
| 13 | C010 CHLOROMETHANE (SPCC) |
| 14 | C050 1,1-DICHLOROETHANE (SPCC) |
| 15 | C180 TRIBROMOMETHANE (BROMOFORM) |
| 16 | C225 1,1,2,2-TETRACHLOROETHANE (SPCC) |
| 17 | C235 CHLOROBENZENE (SPCC) |
| 18 | C121 DICHLOROFLUOROMETHANE |
| 19 | C025 CHLOROETHANE |
| 20 | C029 ETHYLENE OXIDE |
| 21 | C015 BROMOMETHANE |
| 22 | C122 TRICHLOROFLUOROMETHANE |
| 23 | C181 ACETONITRILE |
| 24 | C016 IODOMETHANE |
| 25 | C040 CARBON DISULFIDE |
| 26 | C030 METHYLENE CHLORIDE |
| 27 | C183 ACRYLONITRILE |
| 28 | C055 TRANS-1,2-DICHLOROETHENE |
| 29 | C182 ACROLEIN |
| 30 | C110 METHYL ETHYL KETONE (MEK) |
| 31 | C179 PROPANENITRILE |
| 32 | C035 ACETONE |
| 33 | C115 1,1,1-TRICHLOROETHANE |
| 34 | C120 CARBON TETRACHLORIDE |
| 35 | C165 BENZENE |
| 36 | C065 1,2-DICHLOROETHANE |
| 37 | C150 TRICHLOROETHYLENE |
| 38 | C076 METHYL METHACRYLATE |
| 39 | C031 DIBROMOMETHANE |
| 40 | C130 BROMODICHLOROMETHANE |
| 41 | C125 VINYL ACETATE |
| | C143 CIS-1,3-DICHLOROPROPENE |
| | C145 TRANS-1,3-DICHLOROPROPENE |
| | C077 ETHYL METHACRYLATE |
| 45 | C220 TETRACHLOROETHYLENE |
| 46 | C205 4-METHYL-2-PENTANONE (MIBK) |
| 47 | C155 CHLORODIBROMOMETHANE |

AR102996

No Name
 48 C056 1, 1, 1, 2-TETRACHLOROETHANE
 49 C224 1, 1, 1, 2-TETRACHLOROETHANE
 50 C250 M-XYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area (Hght)	Amount	
1	130	262	8:44	1	1.000	A BV	40101.	50.000	PPB
2	114	554	18:28	2	1.000	A BB	92209.	50.000	PPB
3	82	675	23:10	3	1.000	A BV	55138.	50.000	PPB
4	65	341	11:22	1	1.302	A BB	44851.	38.004	PPB
5	98	659	21:58	3	0.748	A BB	56523.	52.193	PPB
6	95	804	26:48	3	1.157	A BB	93319.	59.981	PPB
7	NOT FOUND								
8	61	246	8:12	1	0.939	A BB	392.	0.176	PPB
9	83	323	10:46	1	1.233	A BB	624.	0.271	PPB
10	NOT FOUND								
11	91	664	22:08	3	0.955	A BB	3724.	1.594	PPB
12	91	749	24:58	3	1.078	A BB	9123.	2.490	PPB
13	NOT FOUND								
14	NOT FOUND								
15	173	562	18:44	2	1.014	A BB	598.	0.658	PPB
16	83	629	20:58	3	0.905	A BB	617.	0.680	PPB
17	NOT FOUND								
18	85	84	2:48	1	0.321	A BB	2600.	1.731	PPB
19	64	113	3:46	1	0.431	A BB	469.	0.784	PPB
20	NOT FOUND								
21	NOT FOUND								
22	101	225	7:30	1	0.859	A BB	1015.	0.335	PPB
23	41	247	8:14	1	0.943	A BB	566.	0.337	PPB
24	NOT FOUND								
25	76	211	7:02	1	0.805	A BB	1044.	0.381	PPB
26	84	170	5:40	1	0.649	A BB	5624.	4.493	PPB
27	53	210	7:00	1	0.802	A BB	89.	0.451	PPB
28	61	307	10:14	1	1.172	A BB	494.	0.356	PPB
29	56	189	6:18	1	0.721	A BB	63.	10.291	PPB
30	43	331	11:02	1	1.263	A VV	238.	3.105	PPB
31	NOT FOUND								
32	43	189	6:18	1	0.721	A BB	763.	3.068	PPB 0.85
33	NOT FOUND								
34	117	387	12:54	2	0.699	A BB	371.	0.241	PPB 0.07
35	78	479	15:58	2	0.865	A BB	7066.	4.076	PPB
36	NOT FOUND								
37	130	467	15:34	2	0.843	A BB	5777.	5.462	PPB
38	69	554	18:28	2	1.000	A BB	3532.	5.994	PPB
39	93	351	11:42	2	0.634	A BB	413.	0.498	PPB
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	NOT FOUND								
44	69	662	22:04	3	0.953	A BB	2311.	2.967	PPB
45	166	529	20:58	3	0.905	A BB	1630.	0.913	PPB
46	43	573	19:06	3	0.824	A BB	605.	1.075	PPB
47	127	482	16:04	2	0.870	A BB	387.	0.369	PPB
48	107	511	17:02	2	0.922	A VB	206.	0.203	PPB
49	131	566	18:52	2	1.022	A BB	802.	0.745	PPB
50	91	749	24:58	3	1.078	A BB	9123.	2.490	PPB

AR102997

0011

No	Rat(L)	Ratio	RP1(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	8:50	0.99	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	18:36	0.99	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	23:18	0.99	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	11:28	0.99	1.298	1.00	38.00	50.00	1.002	1.319	0.76
5	22:06	0.99	0.948	1.00	52.19	50.00	1.091	1.045	1.04
6	26:58	0.99	1.157	1.00	59.98	50.00	1.858	1.549	1.20
7	2:56		0.333						
8	8:22	0.98	0.747	0.99	0.18	10.00	0.045	2.554	0.02
9	10:52	0.99	1.230	1.00	0.27	10.00	0.071	2.615	0.03
10	14:54		0.301						
11	22:14	1.00	0.954	1.00	1.59	10.00	0.329	2.065	0.16
12	25:06	0.99	1.077	1.00	2.49	10.00	0.824	3.308	0.25
13	1:16		0.143						
14	9:34		1.083						
15	18:56	0.99	1.018	1.00	0.66	10.00	0.032	0.491	0.07
16	21:08	0.99	0.907	1.00	0.68	10.00	0.061	0.900	0.07
17	23:22		1.003						
18	2:52	0.98	0.325	0.99	1.73	10.00	0.285	1.645	0.17
19	3:50	0.98	0.434	0.99	0.78	10.00	0.053	0.672	0.08
20	2:08		0.247						
21	2:12		0.249						
22	7:38	0.98	0.864	0.99	0.33	10.00	0.115	3.429	0.03
23	8:22	0.98	0.947	1.00	0.34	10.00	0.065	1.922	0.03
24	5:14		0.592						
25	7:06	0.99	0.804	1.00	0.38	10.00	0.121	3.163	0.04
26	5:46	0.98	0.653	0.99	4.49	10.00	0.759	1.689	0.45
27	7:08	0.98	0.808	0.99	0.45	50.00	0.002	0.219	0.01
28	10:16	1.00	1.162	1.01	0.36	10.00	0.058	1.624	0.04
29	6:32	0.96	0.757	0.95	10.29	100.00	0.001	0.007	0.10
30	10:38	1.04	1.204	1.05	3.11	10.00	0.015	0.049	0.31
31	8:10		0.925						
32	6:32	0.96	0.740	0.98	3.07	10.00	0.148	0.482	0.31
33	12:42		0.683						
34	13:02	0.99	0.701	1.00	0.24	10.00	0.020	0.843	0.02
35	16:06	0.99	0.866	1.00	4.08	10.00	0.383	0.940	0.41
36	11:34		1.309						
37	15:42	0.99	0.244	1.00	5.46	10.00	0.333	0.609	0.55
38	18:34	0.99	0.998	1.00	5.99	50.00	0.029	0.243	0.12
39	11:46	0.99	0.533	1.00	0.50	10.00	0.023	0.459	0.05
40	15:42		0.344						
41	6:32		0.351						
42	15:10		0.815						
43	16:24		0.882						
44	22:12	0.99	0.953	1.00	2.97	50.00	0.043	0.726	0.06
45	21:06	0.99	0.906	1.00	0.91	10.00	0.155	1.698	0.09
46	19:16	0.99	0.827	1.00	1.07	10.00	0.050	0.462	0.11
47	16:22	0.98	0.880	0.99	0.37	10.00	0.021	0.562	0.04
48	17:14	0.99	0.927	1.00	0.20	10.00	0.011	0.559	0.02
49	19:04	0.99	1.023	1.00	0.74	10.00	0.044	0.588	0.07
50	25:06	0.99	1.077	1.00	2.49	10.00	0.824	3.308	0.25

AR102998

Quantitation Report File: 45311

Date: 45311 TI
12/10/87 10:45:00

Sample: SYSTEM BLANK

Conds. 8' X 2MM ID 1%SP1000 36(2.5) TO 220 @80/MIN

Formula: Instrument: 5100

Weight: 0.000

Submitted by: WESTON

Analyst: JAP

Acct. No.: P&T

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

Resp. fac. from average of whole .RL

No	Name
51	C160 1,1,2-TRICHLOROETHANE
52	C250 O&P-XYLENE
53	C245 STYRENE
54	C161 1,2,3-TRICHLOROPROPANE
55	C210 2-HEXANONE
56	C226 TRANS-1,4-DICHLORO-2-BUTENE
57	C144 1,2-DIBROMO-3-CHLOROPROPANE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	97	486	16:12	2	0.877	A BB	88.	0.119 PPB	0.03
52	91	858	28:36	3	1.235	A VB	6046.	1.931 PPB	0.53
53	104	833	27:46	3	1.199	A BB	2470.	1.499 PPB	0.41
54	75	621	20:42	2	1.121	A BB	570.	0.697 PPB	0.19
55	43	620	20:40	1	2.366	A BB	1216.	2.197 PPB	0.61
56	NOT FOUND								
57	157	761	25:22	3	1.095	A BB	71.	0.240 PPB	0.07

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
51	16:24	0.99	0.882	0.99	0.12	10.00	0.005	0.401	0.01
52	28:44	1.00	1.233	1.00	1.93	20.00	0.269	2.791	0.10
53	27:54	1.00	1.197	1.00	1.50	10.00	0.225	1.498	0.15
54	20:52	0.99	1.122	1.00	0.70	10.00	0.030	0.435	0.07
55	20:46	1.00	2.351	1.01	2.20	10.00	0.156	0.709	0.22
56	21:24		0.918						
57	25:28	1.00	1.093	1.00	0.24	10.00	0.007	0.297	0.02

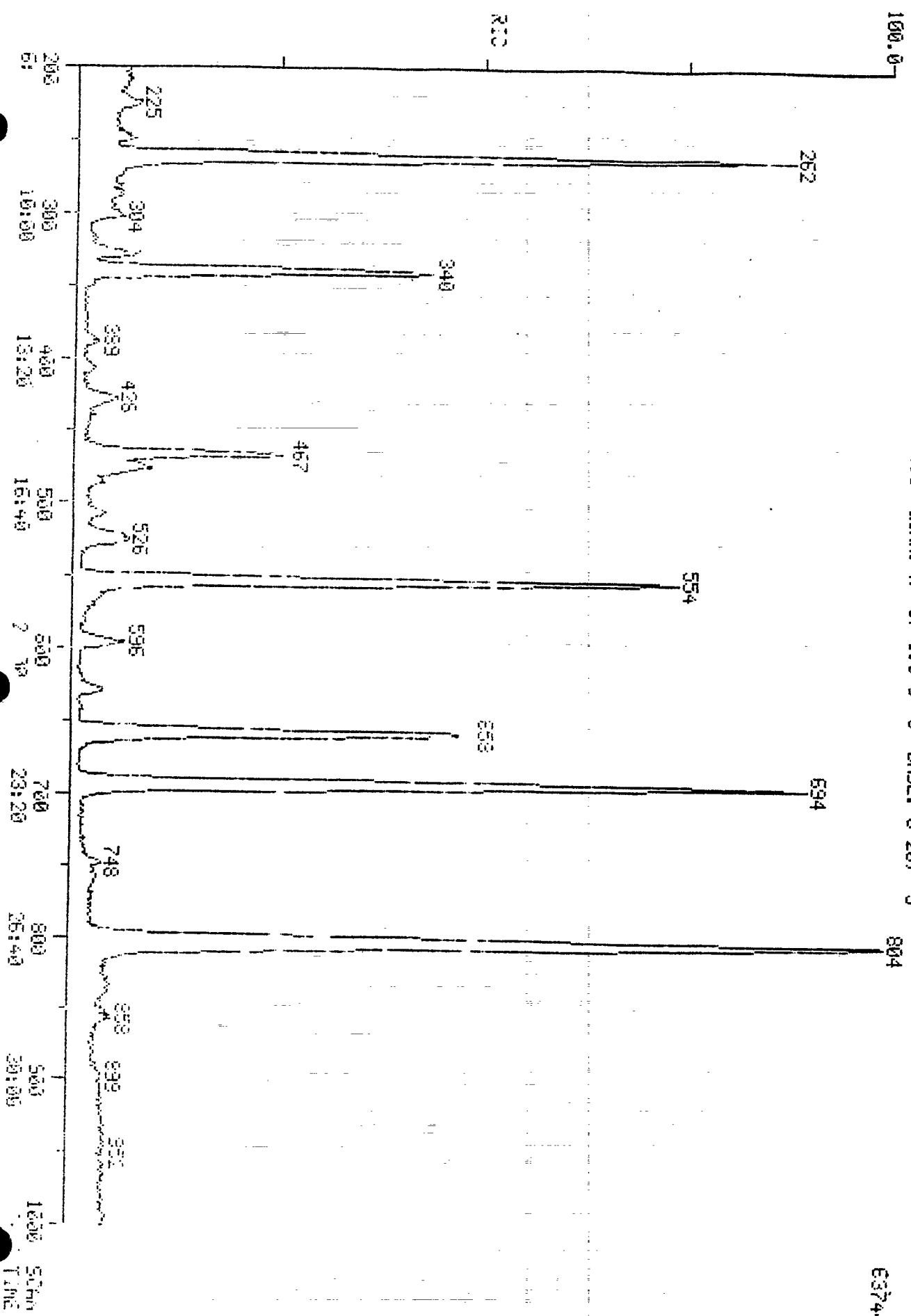
AR102999

RIC
12/10/87 11:29:00
SAMPLE: A711041-BLANK (100UL)
COND.: 8' X 2MM ID 125P1000 36(2.5) TO 220 @30/MIN
RANGE: G 1.1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 45312 #1
CALL: 45312 #2

SCANS 200 TO 1000

63744.



AR103000

50min
30:00
1000
TIME

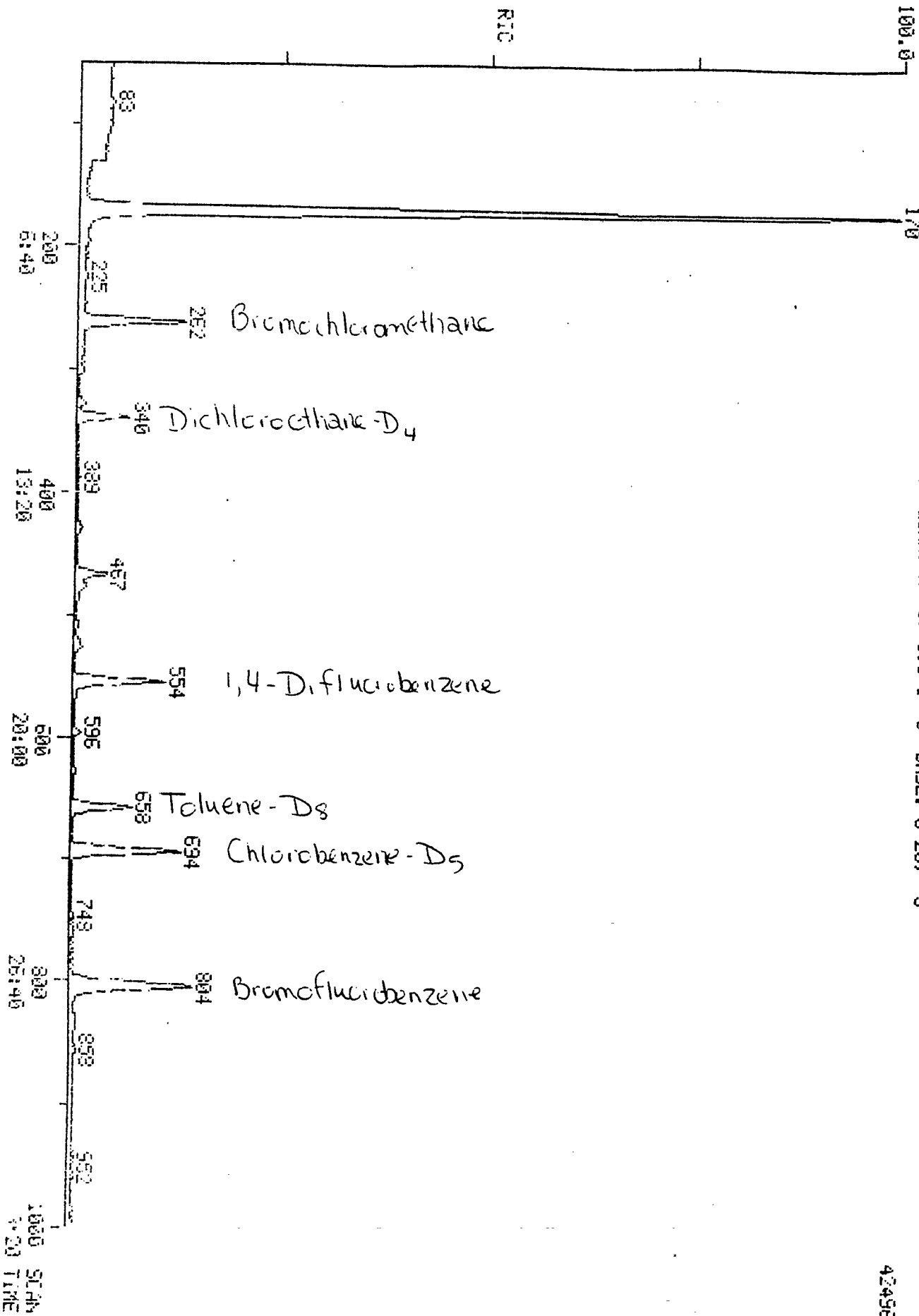
V-311

12/10/87 11:29:00
SAMPLE: A711041-BLANK (100UL)
CONDS.: 8' X 2MM ID 125P1000 36(2.5) TO 220 @8C/MIN
RANGE: 0 1.1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 45312 #1
CALL: 45312 #2

SCANS 50 TO 1000

424560.



ARI03001

C-318

Quantitation Report File: 45312

Data: 45312.TI

12/10/87 11:29:00

Sample: A711041-BLANK (100UL)

Conds.: 8' X 2MM ID 1%SP1000 36(2.5) TO 220 @80/MIN

Formula: Instrument: 5100

Submitted by: WESTON

Analyst: JAP

Weight: 0.000

Acct. No.: P&T

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

Resp. fac. from average of whole .RL

- No Name
- 1 CI01 BROMOCHLOROMETHANE (INTERNAL STANDARD)
- 2 CI10 1,4-DIFLUOROBENZENE (INTERNAL STANDARD)
- 3 CI20 CHLOROBENZENE-D5 (INTERNAL STANDARD)
- 4 CS15 DICHLOROETHANE-D4 (SURROGATE)
- 5 CS05 TOLUENE-D8 (SURROGATE)
- 6 CS10 BROMOFLUOROBENZENE (SURROGATE)
- 7 C020 VINYL CHLORIDE (CCC)
- 8 C045 1,1-DICHLOROETHENE (CCC)
- 9 C060 CHLOROFORM (CCC)
- 10 C140 1,2-DICHLOROPROPANE (CCC)
- 11 C230 TOLUENE (CCC)
- 12 C240 ETHYL BENZENE (CCC)
- 13 C010 CHLOROMETHANE (SPCC)
- 14 C050 1,1-DICHLOROETHANE (SPCC)
- 15 C180 TRIBROMOMETHANE (BROMOFORM)
- 16 C225 1,1,2,2-TETRACHLOROETHANE (SPCC)
- 17 C235 CHLOROBENZENE (SPCC)
- 18 C121 DICHLOROFLUOROMETHANE
- 19 C025 CHLOROETHANE
- 20 C029 ETHYLENE OXIDE
- 21 C015 BROMOMETHANE
- 22 C122 TRICHLOROFLUOROMETHANE
- 23 C181 ACETONITRILE
- 24 C016 IODOMETHANE
- 25 C040 CARBON DISULFIDE
- 26 C030 METHYLENE CHLORIDE
- 27 C183 ACRYLONITRILE
- 28 C055 TRANS-1,2-DICHLOROETHENE
- 29 C182 ACROLEIN
- 30 C179 PROPANENITRILE
- 31 C035 ACETONE
- 32 C115 1,1,1-TRICHLOROETHANE
- 33 C120 CARBON TETRACHLORIDE
- 34 C165 BENZENE
- 35 C065 1,2-DICHLOROETHANE
- 36 C150 TRICHLOROETHYLENE
- 37 C076 METHYL METHACRYLATE
- 38 C031 DIBROMOMETHANE
- 39 C130 BROMODICHLOROMETHANE
- 40 C125 VINYL ACETATE
- 41 C143 CIS-1,3-DICHLOROPROPENE
- 42 C145 TRANS-1,3-DICHLOROPROPENE
- 43 C077 ETHYL METHACRYLATE
- 44 C220 TETRACHLOROETHYLENE
- 45 C205 4-METHYL-2-PENTANONE (MIRK)
- 46 C155 CHLORODIBROMOMETHANE
- 47 C066 1,2-DIBROMOETHANE

AR103002

No Name
 48 C224 1, 1, 1, 2-TETRACHLOROETHANE
 49 C250 M-XYLENE
 50 C160 1, 1, 2-TRICHLOROETHANE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	130	262	8:44	1	1.000	A BV	45951.	50.000 PPB	5.98
2	114	554	18:28	2	1.000	A BB	102966.	50.000 PPB	5.98
3	82	694	23:08	3	1.000	A BB	59577.	50.000 PPB	5.98
4	65	340	11:20	1	1.298	A BB	54200.	40.079 PPB	4.79
5	98	658	21:56	3	0.948	A BB	63969.	54.668 PPB	6.53
6	95	804	26:48	3	1.159	A BB	99865.	59.405 PPB	7.10
7	62	85	2:50	1	0.324	A BB	297.	0.259 PPB	0.03
8	61	247	8:14	1	0.943	A BB	828.	0.325 PPB	0.04
9	83	323	10:46	1	1.233	A BB	623.	0.236 PPB	0.03
10	NOT FOUND								
11	91	663	22:06	3	0.955	A BB	3392.	1.343 PPB	0.16
12	91	748	24:56	3	1.078	A BB	3278.	0.828 PPB	0.10
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	83	630	21:00	3	0.908	A BB	69.	0.070 PPB	0.01
17	112	698	23:16	3	1.006	A BB	800.	0.404 PPB	0.05
18	85	83	2:46	1	0.317	A BB	4499.	2.614 PPB	0.31
19	64	110	3:40	1	0.420	A BB	322.	0.470 PPB	0.06
20	NOT FOUND								
21	NOT FOUND								
22	101	225	7:30	1	0.859	A BB	4104.	1.182 PPB	0.14
23	41	249	8:18	1	0.950	A VV	353.	0.184 PPB	0.02
24	NOT FOUND								
25	76	209	6:58	1	0.798	A BB	1683.	0.537 PPB	0.06
26	84	169	5:38	1	0.645	A BB	484657.	337.884 PPB	40.39
27	NOT FOUND								
28	61	304	10:08	1	1.160	A BB	515.	0.324 PPB	0.04
29	56	199	6:38	1	0.760	A BB	107.	15.253 PPB	1.82
30	NOT FOUND								
31	43	195	6:30	1	0.744	A BB	5566.	19.533 PPB	2.33
32	97	377	12:34	2	0.681	A BB	109.	0.066 PPB	0.01
33	NOT FOUND								
34	78	479	15:58	2	0.865	A BB	2235.	1.155 PPB	0.14
35	NOT FOUND								
36	130	467	15:34	2	0.843	A BB	15057.	12.749 PPB	1.52
37	69	554	18:28	2	1.000	A BB	4036.	6.134 PPB	0.73
38	93	349	11:38	2	0.630	A BB	463.	0.500 PPB	0.06
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	69	661	22:02	3	0.952	A BB	1388.	1.649 PPB	0.20
44	166	628	20:56	3	0.905	A BB	1774.	0.919 PPB	0.11
45	43	572	19:04	3	0.824	A VB	478.	0.786 PPB	0.09
46	NOT FOUND								
47	107	512	17:04	2	0.924	A BB	63.	0.056 PPB	0.01
48	NOT FOUND								
49	91	748	24:56	3	1.078	A BB	3278.	0.828 PPB	0.10
50	NOT FOUND								

AR103003

5-20

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	8:50	0.99	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	18:36	0.99	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	23:18	0.99	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	11:28	0.99	1.298	1.00	40.08	50.00	1.057	1.319	0.80
5	22:06	0.99	0.948	1.00	54.67	50.00	1.143	1.045	1.09
6	26:58	0.99	1.157	1.00	59.41	50.00	1.840	1.549	1.19
7	2:56	0.97	0.332	0.98	0.26	10.00	0.028	1.083	0.03
8	8:22	0.98	0.947	1.00	0.32	10.00	0.083	2.554	0.03
9	10:52	0.99	1.230	1.00	0.24	10.00	0.062	2.615	0.02
10	14:54		0.801						
11	22:14	0.99	0.954	1.00	1.34	10.00	0.277	2.065	0.13
12	25:06	0.99	1.077	1.00	0.83	10.00	0.274	3.308	0.08
13	1:16		0.143						
14	9:34		1.083						
15	18:56		1.018						
16	21:08	0.99	0.907	1.00	0.07	10.00	0.006	0.900	0.01
17	23:22	1.00	1.003	1.00	0.40	10.00	0.068	1.676	0.04
18	2:52	0.97	0.325	0.98	2.61	10.00	0.430	1.645	0.26
19	3:50	0.96	0.434	0.97	0.47	10.00	0.032	0.672	0.05
20	2:08		0.247						
21	2:12		0.249						
22	7:38	0.98	0.864	0.99	1.18	10.00	0.405	3.429	0.12
23	8:22	0.99	0.947	1.00	0.18	10.00	0.035	1.922	0.02
24	5:14		0.592						
25	7:06	0.98	0.804	0.99	0.54	10.00	0.170	3.163	0.05
26	5:46	0.98	0.653	0.99	337.88	10.00	57.070	1.689	33.79
27	7:08		0.808						
28	10:16	0.99	1.162	1.00	0.32	10.00	0.053	1.624	0.03
29	6:32	1.02	0.757	1.00	15.25	100.00	0.001	0.007	0.15
30	8:10		0.925						
31	6:32	0.99	0.740	1.01	19.53	10.00	0.942	0.482	1.95
32	12:42	0.99	0.683	1.00	0.07	10.00	0.005	0.792	0.01
33	13:02		0.701						
34	16:06	0.99	0.866	1.00	1.15	10.00	0.109	0.940	0.12
35	11:34		1.309						
36	15:42	0.99	0.844	1.00	12.75	10.00	0.777	0.609	1.27
37	18:34	0.99	0.998	1.00	6.13	50.00	0.030	0.243	0.12
38	11:46	0.99	0.633	1.00	0.50	10.00	0.023	0.459	0.05
39	15:42		0.844						
40	6:32		0.351						
41	15:10		0.815						
42	16:24		0.882						
43	22:12	0.99	0.953	1.00	1.65	50.00	0.024	0.726	0.03
44	21:06	0.99	0.906	1.00	0.92	10.00	0.156	1.698	0.09
45	19:16	0.99	0.827	1.00	0.79	10.00	0.036	0.462	0.08
46	16:22		0.880						
47	17:14	0.99	0.927	1.00	0.06	10.00	0.003	0.559	0.01
48	19:04		1.025						
49	25:06	0.99	1.077	1.00	0.83	10.00	0.274	3.308	0.08
50	16:24		0.882						

AR103004

45312

Quantitation Report File: 45312

Data: 45312.TI

12/10/87 11:29:00

Sample: A711041-BLANK (100UL)

Conds.: 8' X 2MM ID 1%SP1000 36(2.5) TO 220 @8C/MIN

Formula:

Instrument: 5100

Weight: 0.000

Submitted by: WESTON

Analyst: JAP

Acct. No.: P&T

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

Resp. fac. from average of whole .RL

No	Name
51	C250 O&P-XYLENE
52	C245 STYRENE
53	C161 1,2,3-TRICHLOROPROPANE
54	C210 2-HEXANONE
55	C226 TRANS-1,4-DICHLORO-2-BUTENE
56	C144 1,2-DIBROMO-3-CHLOROPROPANE
57	C110 METHYL ETHYL KETONE (MEK)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	91	856	28:32	3	1.233	A BB	3919.	1.158 PPB	0.14
52	104	832	27:44	3	1.199	A BB	1493.	0.839 PPB	0.10
53	75	622	20:44	2	1.123	A BB	290.	0.318 PPB	0.04
54	43	620	20:40	1	2.366	A BB	1700.	2.679 PPB	0.32
55	NOT FOUND								
56	NOT FOUND								
57	43	341	11:22	1	1.302	A BB	10640.	121.268 PPB	14.50

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
51	28:44	0.99	1.233	1.00	1.16	20.00	0.162	2.791	0.06
52	27:54	0.99	1.197	1.00	0.84	10.00	0.126	1.498	0.08
53	20:52	0.99	1.122	1.00	0.32	10.00	0.014	0.435	0.03
54	20:46	1.00	2.351	1.01	2.68	10.00	0.190	0.709	0.27
55	21:24		0.918						
56	25:28		1.093						
57	10:38	1.07	1.204	1.08	121.27	10.00	0.589	0.049	12.13

AR103005

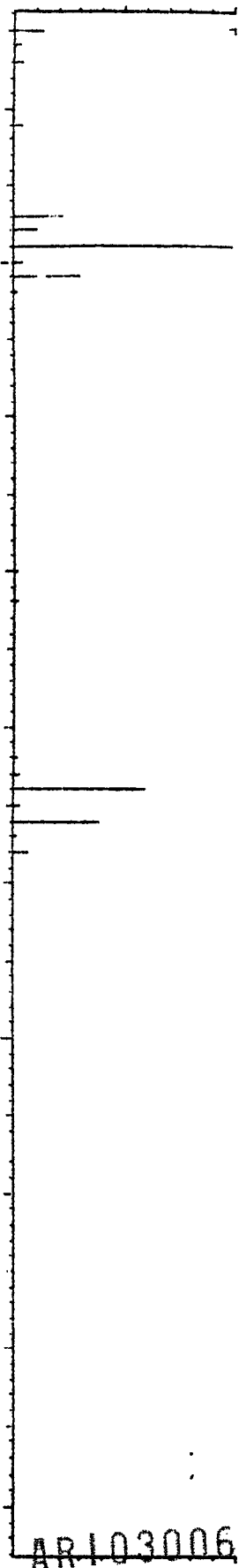
ppd

1007
SAMPLE

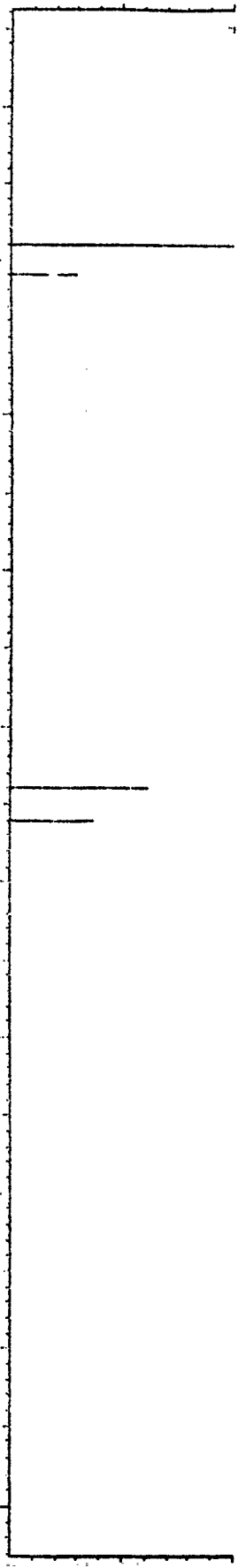
LIBRARY SEARCH
12/18/87 11:29:00 + 5:38
SAMPLE: 4711041-BLANK (100UL)
CONDOS.: 8' X 2MM ID 125P1000 36(2.5) TO 220 @90/MIN

DATA: 45312 # 169
CALL: 45312 # 2

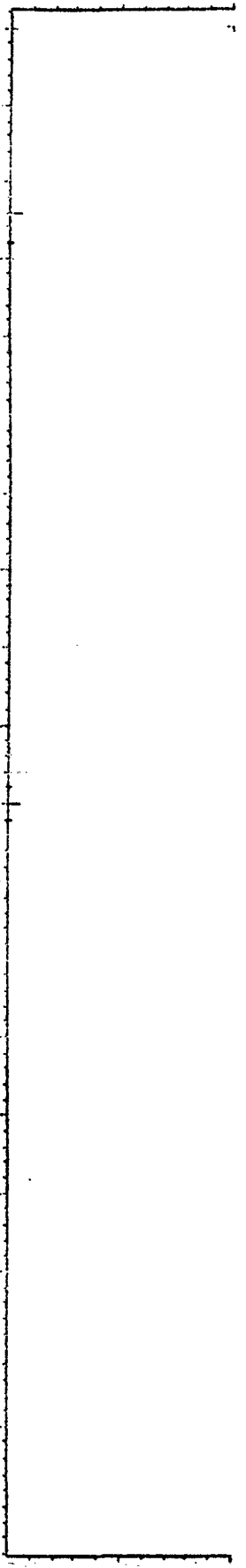
BASE M/Z: 45
RIC: 418303.



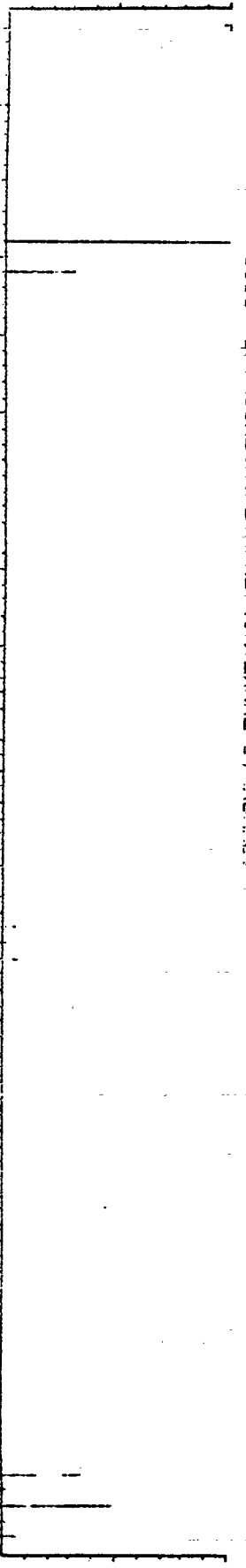
1007
M UT 2007
3 PK 499
17
PUR 802



1007
M UT 2007
3 PK 499
17
PUR 802



1007
M UT 2007
3 PK 499
17
PUR 802



M/Z 40 50 60 70 80 90 100 110 120 130

AR103006

LIBRARY SEARCH

DATA: USER DEFINED

BASE M/Z: 51

1000
SAMPLE

M UT 1000
E PK 650
S PK 43
1
FILE 150

0110 METHYL ETHYL KETONE (MEK)

AR103007

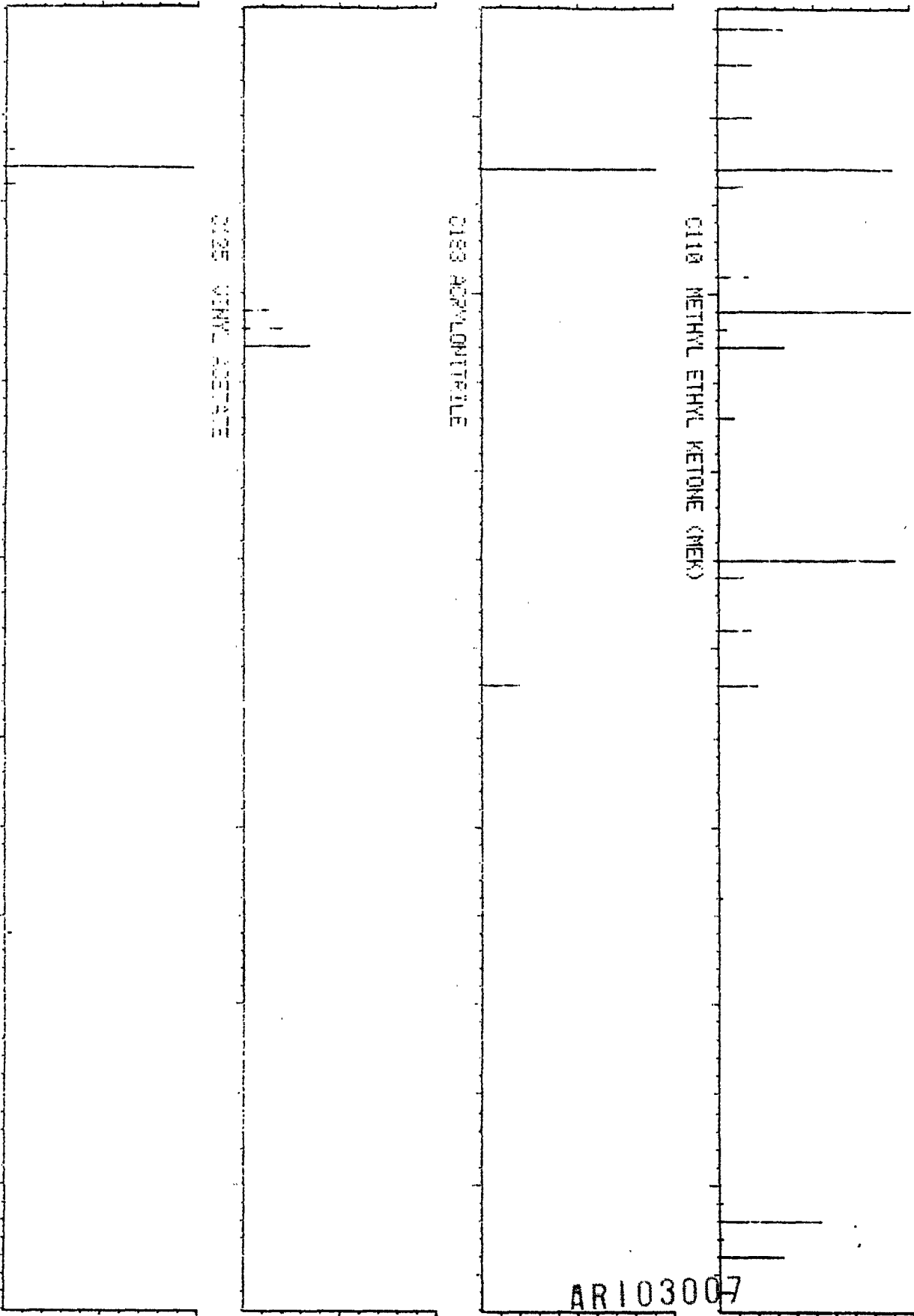
M UT 1000
E PK 650
S PK 43
1
FILE 150

0123 ACETONITRILE

0125 VINYL BENZENE

M UT 1000
E PK 650
S PK 43
1
FILE 150

40 50 60 70 80 90 100

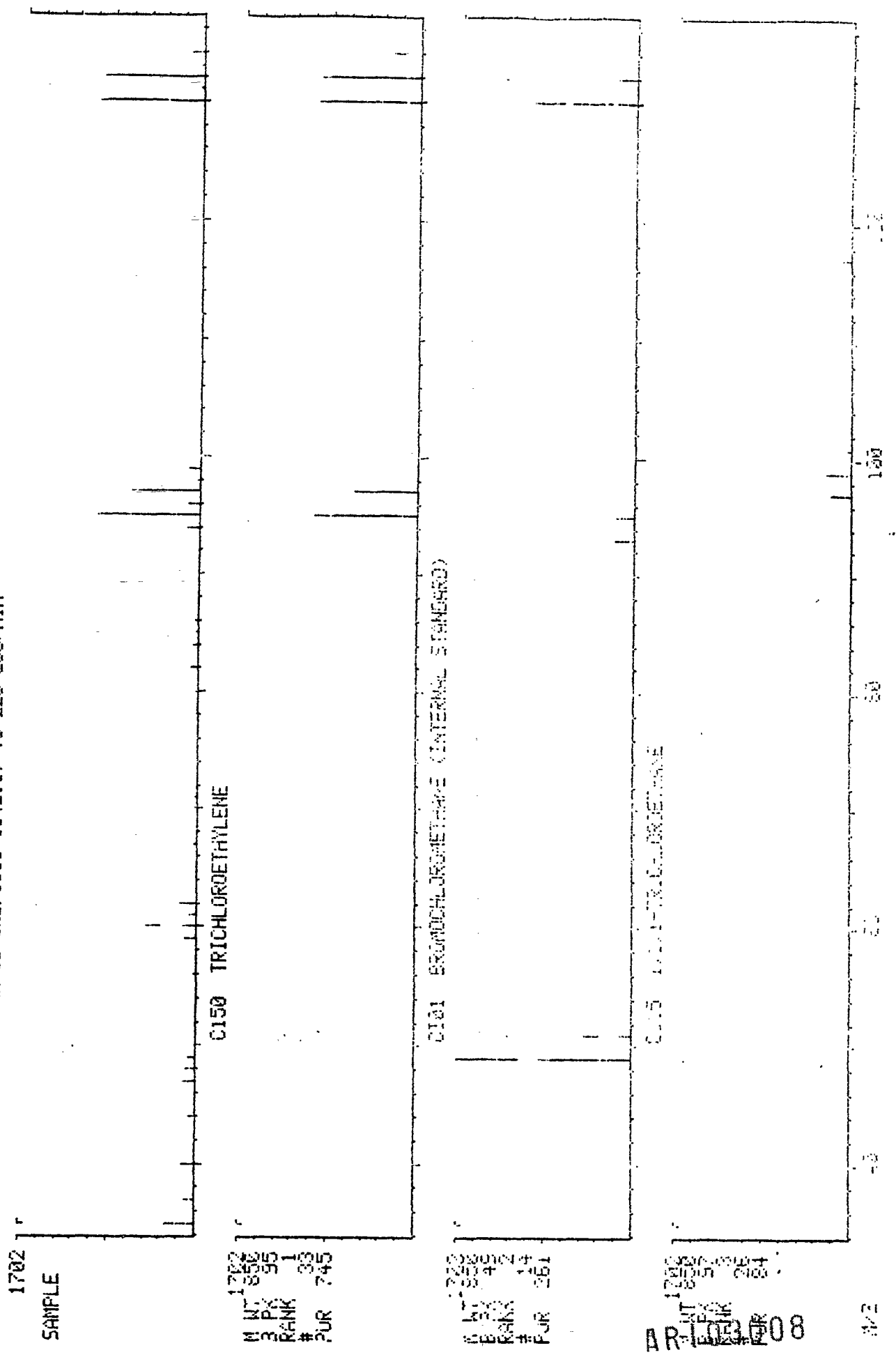


1702

LIBRARY SEARCH
12/10/87 11:23:00 + 15:34
SAMPLE: A711041-BLANK (100UL)
CONDS.: 8' X 2MM ID 175P1000 35(2.5) TO 220 680/MIN

DATA: 45312 # 457
CALI: 45312 # 2

BASE M/2: 130
RIC: 16175.



1702

SAMPLE

0150 TRICHLOROETHYLENE

1702
M NT 856
3 PK 95
RANK 1
PUR 33
PUR 745

0101 BROMOCHLOROMETHANE (INTERNAL STANDARD)

2200
M NT 900
3 PK 94
RANK 2
PUR 14
PUR 261

0105 1,1,1-TRICHLOROETHANE

2261
M NT 900
3 PK 94
RANK 2
PUR 14
PUR 261

ART 03 08

M/2

E-325

SAMPLE WORKSHEET FOR VOLATILES

CONTRACT NAME WESTON
CONTRACT NUMBER 325-001-01-01
RADIAN CONTACT RICHARDSON

SAMPLE DESCRIPTION

SAMPLE NO. (SAM) A711041-RB ANALYTE(S) _____
TYPE [] AQUEOUS [] SOLID [] ORGANIC LIQUID [] SORBENT
[] OTHER _____

SAMPLE IDENTIFIER REAGENT BLANK
COMMENTS _____

SAMPLE PREPARATION

DATE EXTRACTED 11-13-87

AQUEOUS SAMPLES
_____ 5 mL OR _____ mL (SMP*) DILUTED TO 5 mL H2O; DF= _____

SOLID SAMPLES

0.023 g (SMPSZ) INTO 200 mL Methanol (EXTVOL)
50 mL Methanol (SMP*) ADDED TO 5mL H2O FOR ANALYSIS DF= _____

SURROGATE SPIKE: _____ uL OF _____ ug/mL _____, LOT# _____
COMMENT: _____

DATE SUBMITTED 11-16-87 SUBMITTED BY E.E. RECEIVED BY JAP

SAMPLE ANALYSIS

FRN _____ DATE ANALYZED _____ ANALYST _____
INTERNAL STANDARD V1-IS OTHER _____
AMOUNT ADDED ng 100 250 OTHER _____
COMMENT: _____

$$C_{ppm} = \frac{An \times CIS \text{ (ppm)} \times DF}{RF} \times \frac{EXTVOL}{SMPSZ} \quad DF = \frac{5}{SMP^*}$$

SURROGATE CONCENTRATION (Cs): _____ ppm

$$Cs = \frac{ug \text{ SPIKED}}{SMP^*} \times \frac{EXTVOL}{SMPSZ}$$

WVO.JSF

AR103009

E-326

RADIAN
CORPORATION

8240 QC PACKAGE

AR103010

V. 237

RADIAN
CORPORATION

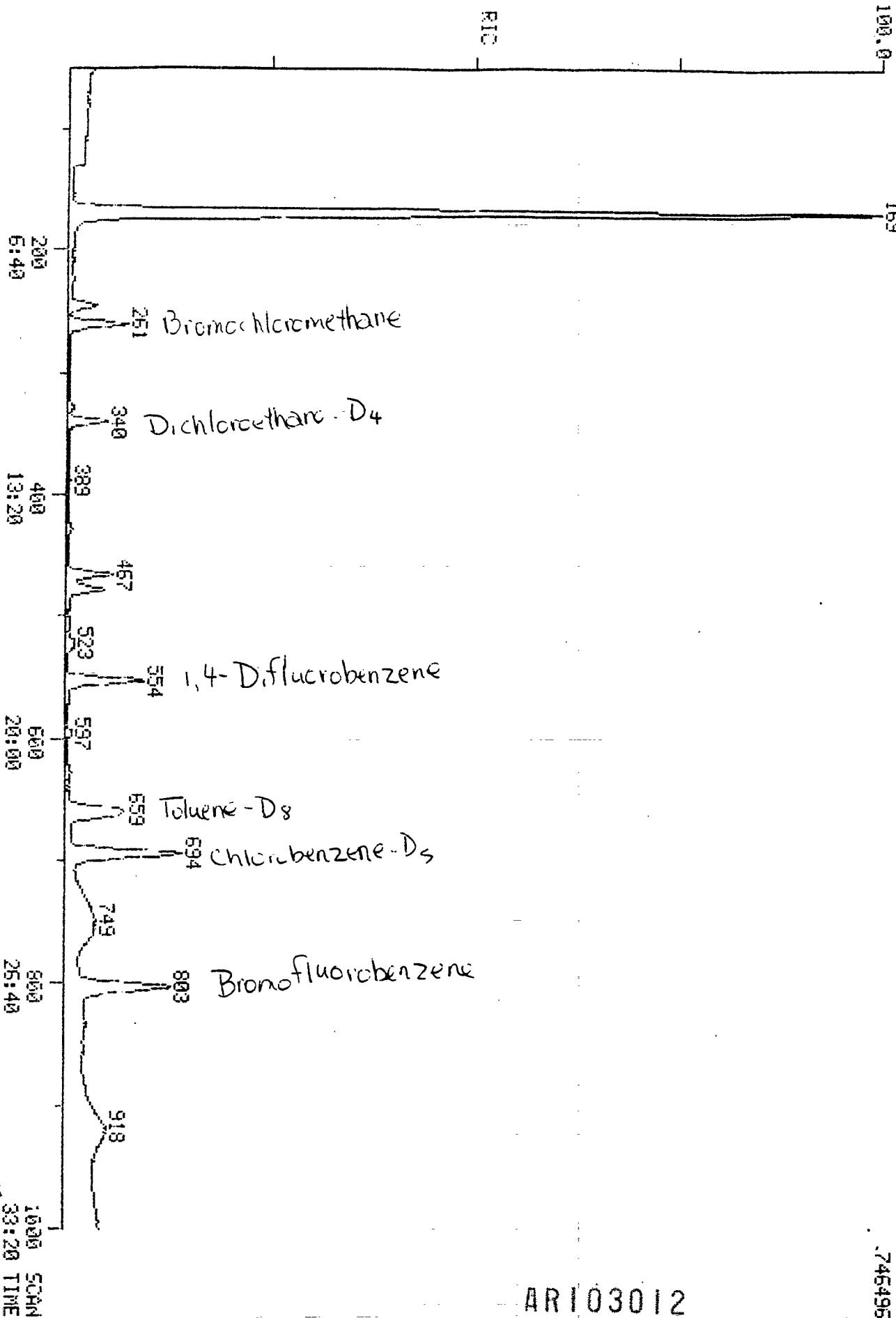
8240 MS/MSD RESULTS

AR103011

1-320

RIC
12/11/87 18:48:00
SAMPLE: A711041-03 (100 UL) MATRIX SPIKE
COND.: 8' X 2MM ID 125P1000 36(2.5) TO 220 @80/MIN
RANGE: 6 1.1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 45337 #1
CALI: 45337 #2
SCANS 50 TO 1000



.746495.

AR103012

E-329

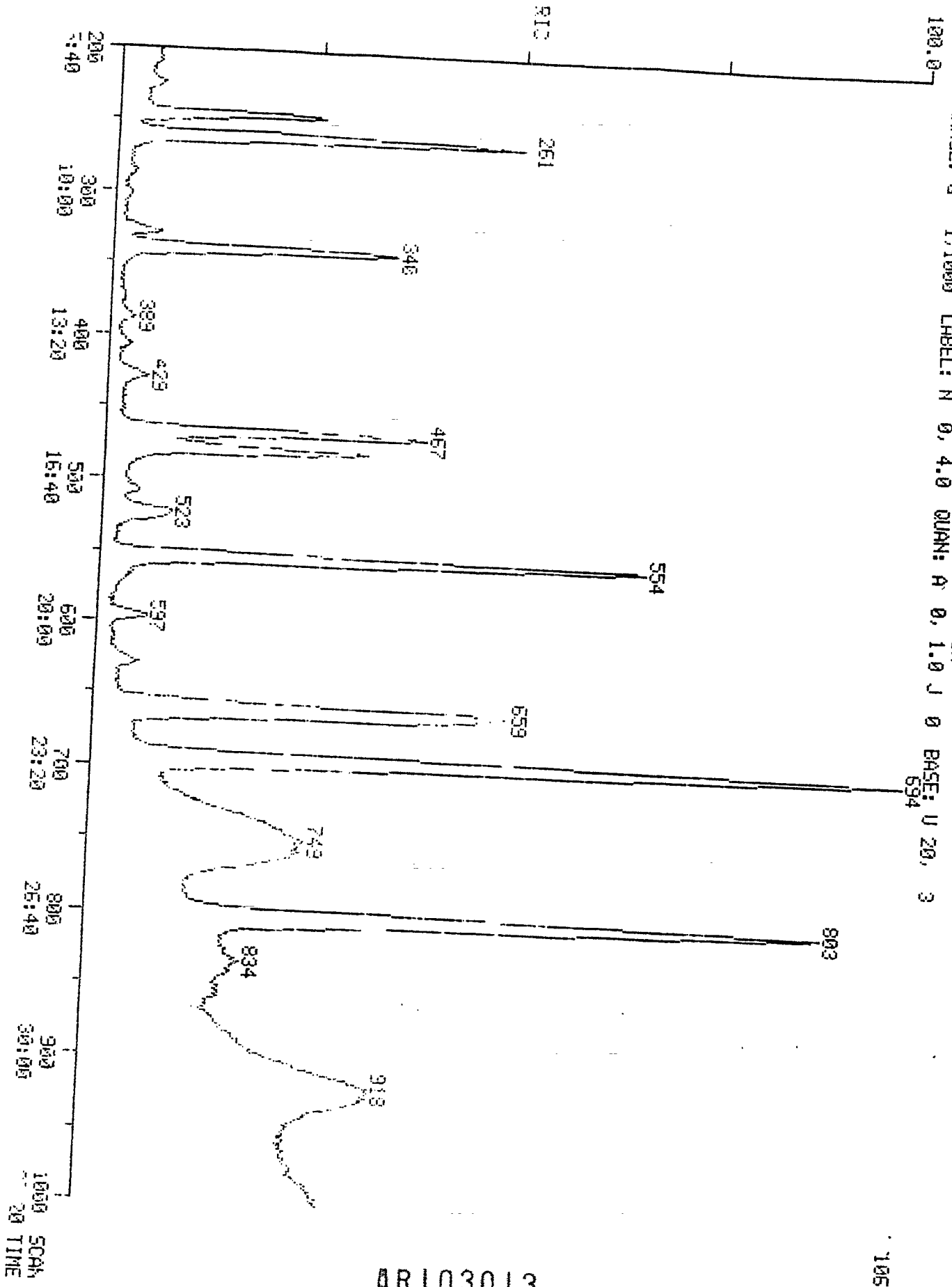
12/11/87 18:48:00
SAMPLE: A711041-03 (100 UL) MATRIX SPIKE
CONDOS.: 8' X 2MM ID 125P1000 36(2.5) TO 220 @80/MIN
RANGE: G 1,1000 LABEL: N 0, 4.0 QUANT: A 0, 1.0 J 0

DATA: 45337
CALL: 45337 #2

SCANS 200 TO 1000

BASE: U 20, 3
694

105752.



ARI03013

ata: 45337.TI

12/11/87 18:48:00

Sample: A711041-03 (100 UL) MATRIX SPIKE

Conds.: 8' X 2MM ID 1%SP1000 36(2.5) TO 220 @8C/MIN

Formula:

Instrument: 5100

Weight: 0.000

Submitted by: WESTON

Analyst: JAP

Acct. No.: P&T

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

Resp. fac. from average of whole .KL

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL STANDARD)
2	CI10 1,4-DIFLUOROBENZENE (INTERNAL STANDARD)
3	CI20 CHLOROBENZENE-D5 (INTERNAL STANDARD)
4	CS15 DICHLOROETHANE-D4 (SURROGATE)
5	CS05 TOLUENE-D8 (SURROGATE)
6	CS10 BROMOFLUOROBENZENE (SURROGATE)
7	C020 VINYL CHLORIDE (CCC)
8	C045 1,1-DICHLOROETHENE (CCC)
9	C060 CHLOROFORM (CCC)
10	C140 1,2-DICHLOROPROPANE (CCC)
11	C230 TOLUENE (CCC)
12	C240 ETHYL BENZENE (CCC)
13	C010 CHLOROMETHANE (SPCC)
14	C050 1,1-DICHLOROETHANE (SPCC)
15	C180 TRIBROMOMETHANE (BROMOFORM)
16	C225 1,1,2,2-TETRACHLOROETHANE (SPCC)
17	C235 CHLOROBENZENE (SPCC)
18	C121 DICHLOROFLUOROMETHANE
19	C025 CHLOROETHANE
20	C029 ETHYLENE OXIDE
21	C015 BROMOMETHANE
22	C122 TRICHLOROFLUOROMETHANE
23	C181 ACETONITRILE
24	C016 IODOMETHANE
25	C040 CARBON DISULFIDE
26	C030 METHYLENE CHLORIDE
27	C183 ACRYLONITRILE
28	C055 TRANS-1,2-DICHLOROETHENE
29	C182 ACRROLEIN
30	C110 METHYL ETHYL KETONE (MEK)
31	C179 PROPANENITRILE
32	C035 ACETONE
33	C115 1,1,1-TRICHLOROETHANE
34	C120 CARBON TETRACHLORIDE
35	C155 BENZENE
36	C065 1,2-DICHLOROETHANE
37	C150 TRICHLOROETHYLENE
38	C076 METHYL METHACRYLATE
39	C031 DIBROMOMETHANE
40	C130 BROMODICHLOROMETHANE
41	C125 VINYL ACETATE
42	C143 CIS-1,3-DICHLOROPROPENE
43	C145 TRANS-1,3-DICHLOROPROPENE
44	C077 ETHYL METHACRYLATE
45	C220 TETRACHLOROETHYLENE
46	C205 4-METHYL-2-PENTANONE (MIBK)
47	C155 CHLORODIBROMOMETHANE

AR103014

E-331

No Name
 48 C066 1, 2-DIBROMOETHANE
 49 C224 1, 1, 1, 2-TETRACHLOROETHANE
 50 C250 M-XYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	130	261	8:42	1	1.000	A BB	54406.	50.000 PPB	5.26
2	114	553	18:26	2	1.000	A BB	157295.	50.000 PPB	5.26
3	82	694	23:08	3	1.000	A BB	87260.	50.000 PPB	5.26
4	65	339	11:18	1	1.299	A BB	73965.	46.195 PPB	4.86
5	98	671	22:22	3	0.967	A VB	97.	0.056 PPB	0.01
6	NOT FOUND								
7	62	85	2:50	1	0.326	A BB	404.	0.298 PPB	0.03
8	61	246	8:12	1	0.943	A BB	43939.	14.545 PPB	1.53
9	83	323	10:46	1	1.238	A BB	554.	0.177 PPB	0.02
10	NOT FOUND								
11	91	663	22:06	3	0.955	A BB	92088.	24.902 PPB	2.62
12	91	749	24:58	3	1.079	A BV	6680.	1.152 PPB	0.12
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	83	628	20:56	3	0.905	A BV	890.	0.619 PPB	0.07
17	112	697	23:14	3	1.004	A BB	74134.	25.568 PPB	2.69
18	85	82	2:44	1	0.314	A BB	4054.	1.990 PPB	0.21
19	NOT FOUND								
20	NOT FOUND								
21	94	63	2:06	1	0.241	A BB	299.	0.217 PPB	0.02
22	101	224	7:28	1	0.858	A BB	4961.	1.206 PPB	0.13
23	41	248	8:16	1	0.950	A VV	747.	0.328 PPB	0.03
24	142	154	5:08	1	0.590	A BB	134.	0.042 PPB	0.00
25	76	208	6:56	1	0.797	A BB	2538.	0.683 PPB	0.07
26	84	169	5:38	1	0.648	A BB	875130.	515.293 PPB	54.21
27	NOT FOUND								
28	61	304	10:08	1	1.165	A BB	624.	0.332 PPB	0.03
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	97	378	12:36	2	0.684	A BB	605.	0.240 PPB	0.03
34	117	387	12:54	2	0.700	A BB	939.	0.357 PPB	0.04
35	78	479	15:58	2	0.866	A BV	66641.	22.538 PPB	2.37
36	62	342	11:24	1	1.310	A BB	534.	0.258 PPB	0.03
37	130	467	15:34	2	0.844	A BB	37184.	20.610 PPB	2.17
38	69	554	18:28	2	1.002	A BB	6177.	6.145 PPB	0.65
39	93	349	11:38	2	0.631	A BB	951.	0.672 PPB	0.07
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	NOT FOUND								
44	NOT FOUND								
45	166	629	20:58	3	0.906	A BB	3006.	1.064 PPB	0.11
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								
49	131	568	18:56	2	1.027	A BB	406.	0.221 PPB	0.02
50	NOT FOUND								

ARI03015

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	8:50	0.98	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	18:36	0.99	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	23:18	0.99	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	11:28	0.99	1.298	1.00	46.19	50.00	1.218	1.319	0.92
5	22:06	1.01	0.948	1.02	0.06	50.00	0.001	1.045	0.00
6	26:58		1.157						
7	2:56	0.97	0.332	0.98	0.30	10.00	0.032	1.083	0.03
8	8:22	0.98	0.947	1.00	14.54	10.00	3.715	2.554	1.45
9	10:52	0.99	1.230	1.01	0.18	10.00	0.046	2.615	0.02
10	14:54		0.801						
11	22:14	0.99	0.954	1.00	24.90	10.00	5.144	2.065	2.49
12	25:06	0.99	1.077	1.00	1.15	10.00	0.381	3.308	0.12
13	1:16		0.143						
14	9:34		1.083						
15	18:56		1.018						
16	21:08	0.99	0.907	1.00	0.62	10.00	0.056	0.900	0.06
17	23:22	0.99	1.003	1.00	25.57	10.00	4.284	1.676	2.56
18	2:52	0.95	0.325	0.97	1.99	10.00	0.327	1.645	0.20
19	3:50		0.434						
20	2:08		0.247						
21	2:12	0.95	0.249	0.97	0.22	10.00	0.026	1.185	0.02
22	7:38	0.98	0.864	0.99	1.21	10.00	0.414	3.429	0.12
23	8:22	0.99	0.947	1.00	0.33	10.00	0.063	1.922	0.03
24	5:14	0.98	0.592	1.00	0.04	10.00	0.012	2.761	0.00
25	7:06	0.98	0.804	0.99	0.68	10.00	0.216	3.163	0.07
26	5:46	0.98	0.653	0.99	515.29	10.00	87.036	1.689	51.53
27	7:08		0.808						
28	10:16	0.99	1.162	1.00	0.33	10.00	0.054	1.624	0.03
29	6:32		0.757						
30	10:38		1.204						
31	8:10		0.925						
32	6:32		0.740						
33	12:42	0.99	0.683	1.00	0.24	10.00	0.019	0.792	0.02
34	13:02	0.99	0.701	1.00	0.36	10.00	0.030	0.843	0.04
35	16:06	0.99	0.866	1.00	22.54	10.00	2.119	0.940	2.25
36	11:34	0.99	1.309	1.00	0.26	10.00	0.045	1.754	0.03
37	15:42	0.99	0.844	1.00	20.61	10.00	1.256	0.609	2.06
38	18:34	0.99	0.998	1.00	6.15	50.00	0.030	0.243	0.12
39	11:46	0.99	0.633	1.00	0.67	10.00	0.031	0.459	0.07
40	15:42		0.844						
41	6:32		0.351						
42	15:10		0.815						
43	16:24		0.882						
44	22:12		0.953						
45	21:06	0.99	0.906	1.00	1.06	10.00	0.181	1.698	0.11
46	19:16		0.827						
47	16:22		0.380						
48	17:14		0.927						
49	19:04	0.99	1.025	1.00	0.22	10.00	0.013	0.588	0.02
50	25:06		1.077						

AR103016

L 303

Quantitation Report File: 45337

Data: 45337.TI

12/11/87 18:48:00

Sample: A711041-03 (100 UL) MATRIX SPIKE

Conds.: 8' X 2MM ID 1%SP1000 36(2.5) TO 220 @8C/MIN

Formula:

Instrument: 5100

Weight: 0.000

Submitted by: WESTON

Analyst: JAP

Acct. No.: P&T

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

Resp. fac. from average of whole .RL

No	Name
51	C160 1,1,2-TRICHLOROETHANE
52	C250 O&P-XYLENE
53	C245 STYRENE
54	C161 1,2,3-TRICHLOROPROPANE
55	C210 2-HEXANONE
56	C226 TRANS-1,4-DICHLORO-2-BUTENE
57	C144 1,2-DIBROMO-3-CHLOROPROPANE
58	CS05 TOLUENE-D8 (SURROGATE)
59	CS10 BROMOFLUOROBENZENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	97	490	16:20	2	0.886	A BB	96.	0.076 PPB	0.01
52	91	856	28:32	3	1.233	A BB	4648.	0.938 PPB	0.10
53	NOT FOUND								
54	NOT FOUND								
55	NOT FOUND								
56	NOT FOUND								
57	157	759	25:18	3	1.094	A BB	78.	0.166 PPB	0.02
58	98	658	21:56	3	0.948	A BB	98812.	57.654 PPB	6.06
59	95	803	26:46	3	1.157	A BB	138588.	56.286 PPB	5.92

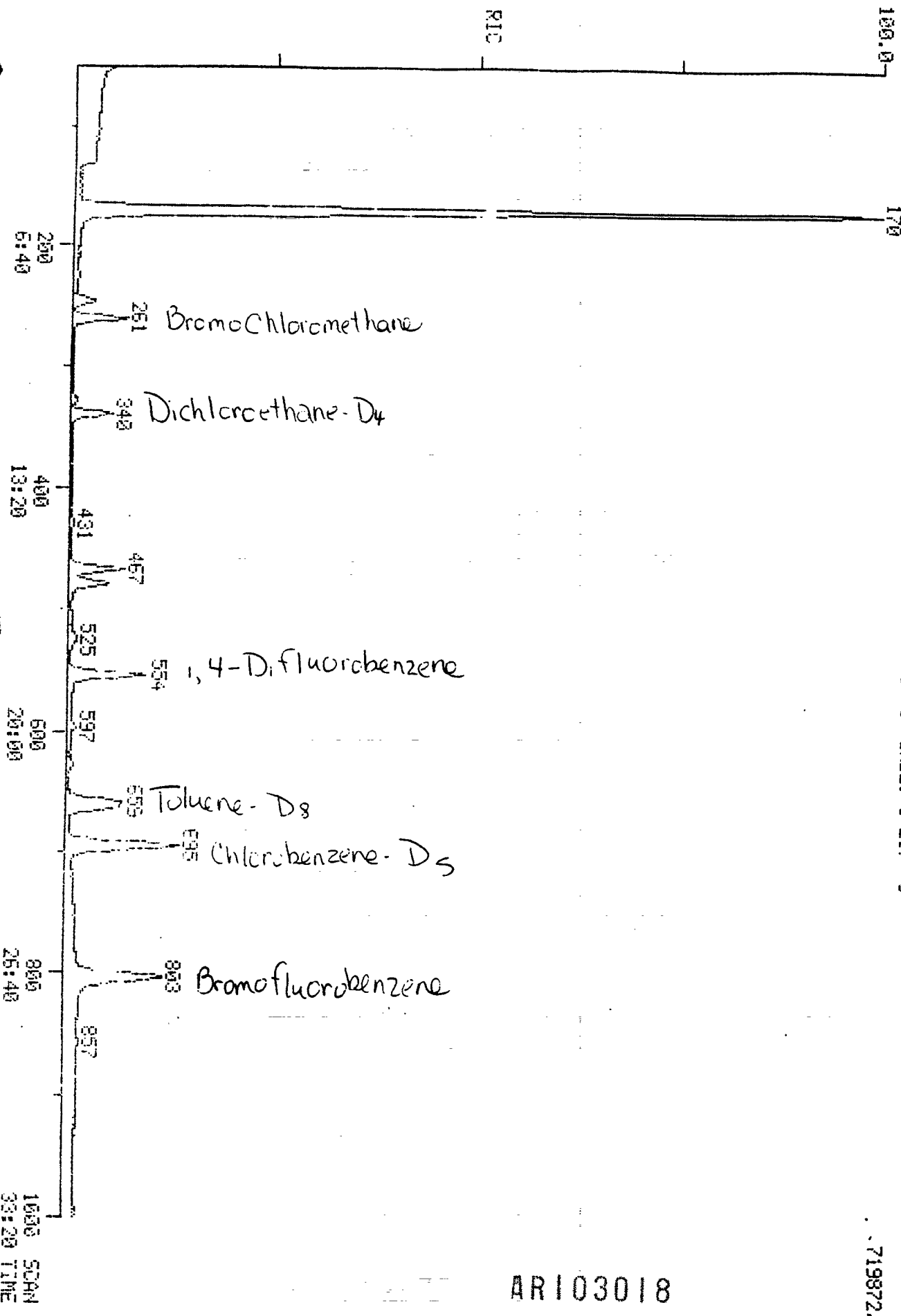
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
51	16:24	1.00	0.882	1.00	0.08	10.00	0.003	0.401	0.01
52	28:44	0.99	1.233	1.00	0.94	20.00	0.131	2.791	0.05
53	27:54		1.197						
54	20:52		1.122						
55	20:46		2.351						
56	21:24		0.918						
57	25:28	0.99	1.093	1.00	0.17	10.00	0.005	0.297	0.02
58	22:06	0.99	0.948	1.00	57.65	50.00	1.205	1.045	1.15
59	26:58	0.99	1.157	1.00	56.29	50.00	1.743	1.549	1.13

ARI03017

E 357

RIC
 12/11/87 19:32:00
 SAMPLE: A711041-03 (100 UL) MATRIX SPIKE DUP.
 COND.: 8' X 2MM ID 125P1000 36(2.5) TO 220 @8C/MIN
 RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 45338 #1
 CALL: 45338 #2
 SCANS 50 TO 1000



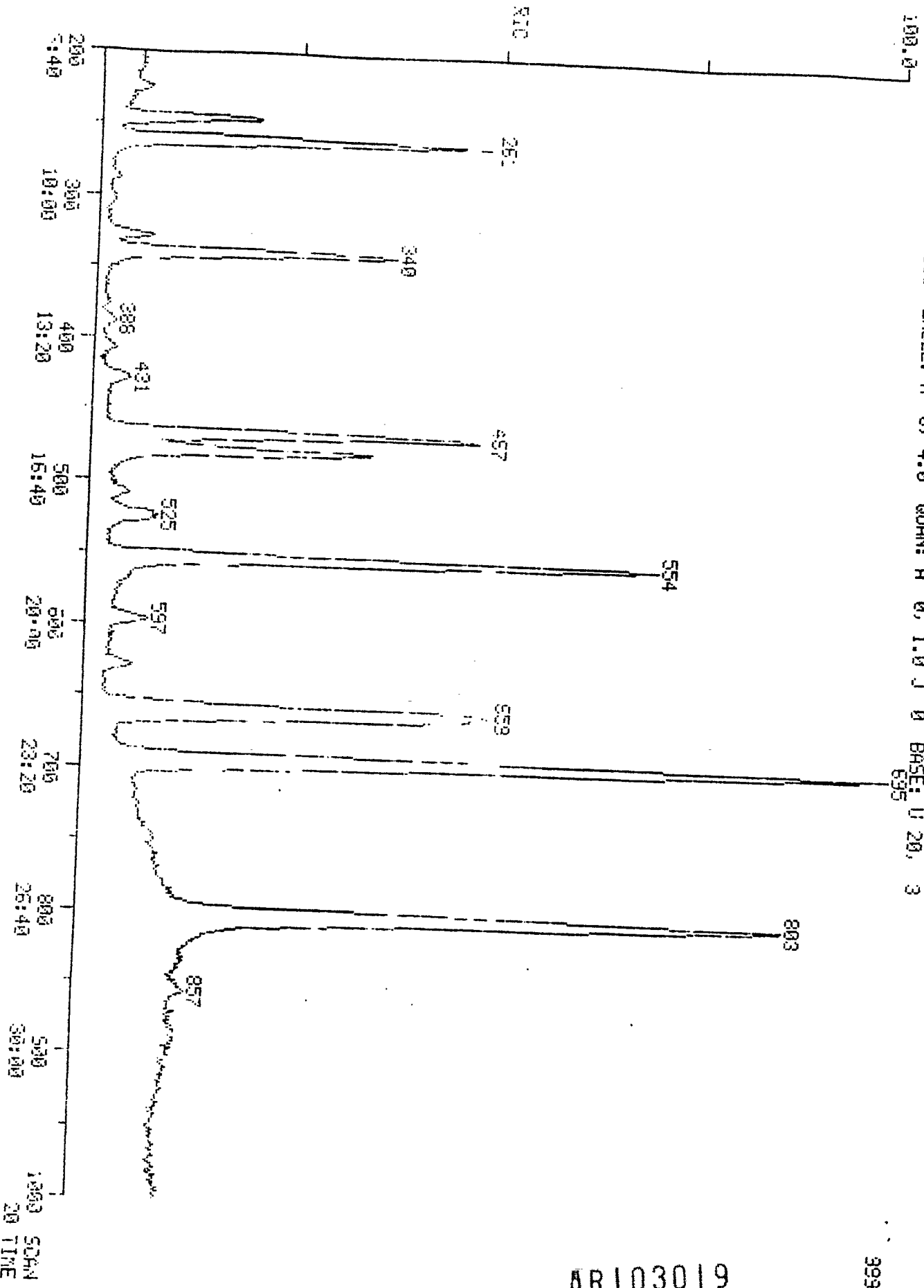
ARI03018

719872.

L-335

PIC
 12/11/87 19:32:00
 SAMPLE: A711041-03 (100 U.L.) MATRIX SPIKE DUP.
 COND.S.: 8" X 2MM ID 175P1000 36(2.5) TO 220 @80C/MIN
 RANGE: G 1.1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 45338 #1
 CALL: 45338 #2
 SCANS 200 TO 1000



AR103019

99368.

E-336

Quantitation Report File: 45338

ata: 45338.TI

12/11/87 19:32:00

Sample: A711041-03 (100 UL) MATRIX SPIKE DUP.

Conds.: 8' X 2MM ID 1%SP1000 36(2.5) TO 220 @80/MIN

Formula:

Instrument: 5100

Weight: 0.000

Submitted by: WESTON

Analyst: JAP

Acct. No.: P&T

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from average of whole .RL

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL STANDARD)
2	CI10 1,4-DIFLUOROBENZENE (INTERNAL STANDARD)
3	CI20 CHLOROBENZENE-D5 (INTERNAL STANDARD)
4	CS15 DICHLOROETHANE-D4 (SURROGATE)
5	CS05 TOLUENE-D8 (SURROGATE)
6	CS10 BROMOFLUOROBENZENE (SURROGATE)
7	CO20 VINYL CHLORIDE (CCC)
8	CO45 1,1-DICHLOROETHENE (CCC)
9	CO60 CHLOROFORM (CCC)
10	C140 1,2-DICHLOROPROPANE (CCC)
11	C230 TOLUENE (CCC)
12	C240 ETHYL BENZENE (CCC)
13	CO10 CHLOROMETHANE (SPCC)
14	CO50 1,1-DICHLOROETHANE (SPCC)
15	C180 TRIBROMOMETHANE (BROMOFORM)
16	C225 1,1,2,2-TETRACHLOROETHANE (SPCC)
17	C235 CHLOROBENZENE (SPCC)
18	C121 DICHLOROFLUOROMETHANE
19	CO25 CHLOROETHANE
20	CO29 ETHYLENE OXIDE
21	CO15 BROMOMETHANE
22	C122 TRICHLOROFLUOROMETHANE
23	C181 ACETONITRILE
24	CO16 IODOMETHANE
25	CO40 CARBON DISULFIDE
26	CO30 METHYLENE CHLORIDE
27	C183 ACRYLONITRILE
28	CO55 TRANS-1,2-DICHLOROETHENE
29	C182 ACROLEIN
30	C110 METHYL ETHYL KETONE (MEK)
31	C179 PROPANENITRILE
32	CO35 ACETONE
33	C115 1,1,1-TRICHLOROETHANE
34	C120 CARBON TETRACHLORIDE
35	C165 BENZENE
36	CO65 1,2-DICHLOROETHANE
37	C150 TRICHLOROETHYLENE
38	CO76 METHYL METHACRYLATE
39	CO31 DIBROMOMETHANE
40	C130 BROMODICHLOROMETHANE
41	C125 VINYL ACETATE
42	C143 CIS-1,3-DICHLOROPROPENE
43	C145 TRANS-1,3-DICHLOROPROPENE
44	CO77 ETHYL METHACRYLATE
45	C220 TETRACHLOROETHYLENE
46	C205 4-METHYL-2-PENTANONE (MIBK)
47	C155 CHLORODIBROMOMETHANE

AR103020

E 337

No Name
 48 C066 1, 2-DIBROMOETHANE
 49 C224 1, 1, 1, 2-TETRACHLOROETHANE
 50 C250 M-XYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	130	261	8:42	1	1.000	A BV	46394.	50.000 PPB	4.82
2	114	554	18:28	2	1.000	A BB	146726.	50.000 PPB	4.82
3	82	694	23:08	3	1.000	A BB	80316.	50.000 PPB	4.82
4	65	340	11:20	1	1.303	A BV	73786.	54.041 PPB	5.21
5	98	658	21:56	3	0.948	A BB	88260.	55.950 PPB	5.40
6	95	804	26:48	3	1.159	A BB	123904.	54.674 PPB	5.28
7	62	85	2:50	1	0.326	A BB	467.	0.404 PPB	0.04
8	61	246	8:12	1	0.943	A BV	35184.	13.658 PPB	1.32
9	83	322	10:44	1	1.234	A BB	641.	0.240 PPB	0.02
10	63	444	14:48	2	0.801	A BB	73.	0.066 PPB	0.01
11	91	664	22:08	3	0.957	A BB	86656.	25.460 PPB	2.46
12	91	749	24:58	3	1.079	A BB	3305.	0.619 PPB	0.06
13	50	63	2:06	1	0.241	A BB	66.	0.100 PPB	0.01
14	63	302	10:04	1	1.157	A BB	72.	0.034 PPB	0.00
15	NOT FOUND								
16	NOT FOUND								
17	112	697	23:14	3	1.004	A BB	73330.	27.478 PPB	2.65
18	85	83	2:46	1	0.318	A BB	4789.	2.756 PPB	0.27
19	64	112	3:44	1	0.429	A BB	309.	0.446 PPB	0.04
20	NOT FOUND								
21	94	65	2:10	1	0.249	A BB	427.	0.363 PPB	0.04
22	101	225	7:30	1	0.862	A BB	5637.	1.608 PPB	0.16
23	NOT FOUND								
24	142	154	5:08	1	0.590	A BB	155.	0.057 PPB	0.01
25	76	209	6:58	1	0.801	A BB	3076.	0.971 PPB	0.09
26	84	170	5:40	1	0.651	A BB	805911.	556.485 PPB	53.69
27	NOT FOUND								
28	61	304	10:08	1	1.165	A BB	815.	0.508 PPB	0.05
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	97	378	12:36	2	0.682	A BB	633.	0.269 PPB	0.03
34	117	387	12:54	2	0.699	A BB	1202.	0.490 PPB	0.05
35	78	480	16:00	2	0.866	A BB	67254.	24.383 PPB	2.35
36	62	343	11:26	1	1.314	A BB	477.	0.270 PPB	0.03
37	130	467	15:34	2	0.843	A BB	43863.	26.063 PPB	2.51
38	69	554	18:28	2	1.000	A VV	5974.	6.372 PPB	0.61
39	93	349	11:38	2	0.630	A BB	597.	0.452 PPB	0.04
40	83	469	15:38	2	0.847	A BB	670.	27.338 PPB	2.64
41	NOT FOUND								
42	75	453	15:06	2	0.818	A BB	228.	0.120 PPB	0.01
43	NOT FOUND								
44	NOT FOUND								
45	166	629	20:58	3	0.906	A BB	3004.	1.155 PPB	0.11
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								
49	131	569	18:58	2	1.027	A VB	833.	0.486 PPB	0.05
50	91	749	24:58	3	1.079	A BB	3305.	0.619 PPB	0.06

AR103021

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	8:50	0.98	1.000	1.00					
2	18:36	0.99	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	23:18	0.99	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	11:28	0.99	1.298	1.00	50.00	50.00	1.000	1.000	1.00
5	22:06	0.99	0.948	1.00	54.04	50.00	1.425	1.319	1.08
6	26:58	0.99	1.157	1.00	55.95	50.00	1.169	1.045	1.12
7	2:56	0.97	0.332	0.98	51.67	50.00	1.693	1.549	1.09
8	8:22	0.98	0.947	1.00	0.40	10.00	0.044	1.083	0.04
9	10:52	0.99	1.230	1.00	13.66	10.00	3.488	2.554	1.37
10	14:54	0.99	0.801	1.00	0.24	10.00	0.063	2.615	0.02
11	22:14	1.00	0.954	1.00	0.07	10.00	0.002	0.373	0.01
12	25:06	0.99	1.077	1.00	25.46	10.00	5.259	2.065	2.55
13	1:16	1.66	0.143	1.68	0.62	10.00	0.205	3.308	0.06
14	9:34	1.05	1.083	1.07	0.10	10.00	0.005	0.536	0.01
15	18:56		1.018		0.03	10.00	0.007	2.108	0.00
16	21:08		0.907						
17	23:22	0.99	1.003	1.00					
18	2:52	0.97	0.325	0.98	27.48	10.00	4.604	1.676	2.75
19	3:50	0.97	0.434	0.99	2.76	10.00	0.453	1.645	0.28
20	2:08		0.247		0.45	10.00	0.030	0.672	0.04
21	2:12	0.98	0.249	1.00					
22	7:38	0.98	0.864	1.00	0.36	10.00	0.043	1.185	0.04
23	8:22		0.947		1.61	10.00	0.551	3.429	0.16
24	5:14	0.98	0.592	1.00					
25	7:06	0.98	0.804	1.00	0.06	10.00	0.016	2.761	0.01
26	5:46	0.98	0.653	1.00	0.97	10.00	0.307	3.163	0.10
27	7:08		0.808		556.48	10.00	93.993	1.689	55.65
28	10:16	0.99	1.162	1.00					
29	6:32		0.757		0.51	10.00	0.082	1.624	0.05
30	10:38		1.204						
31	8:10		0.925						
32	6:32		0.740						
33	12:42	0.99	0.683	1.00	0.27	10.00	0.021	0.792	0.03
34	13:02	0.99	0.701	1.00	0.49	10.00	0.041	0.843	0.05
35	16:06	0.99	0.866	1.00	24.38	10.00	2.293	0.940	2.44
36	11:34	0.99	1.309	1.00	0.27	10.00	0.047	1.754	0.03
37	15:42	0.99	0.844	1.00	26.06	10.00	1.588	0.609	2.61
38	18:34	0.99	0.998	1.00	6.37	10.00	0.031	0.243	0.13
39	11:46	0.99	0.633	1.00	0.45	50.00	0.021	0.459	0.05
40	15:42	1.00	0.844	1.00	27.34	10.00	0.017	0.013	1.37
41	6:32		0.351			20.00	0.017	0.013	1.37
42	15:10	1.00	0.815	1.00	0.12	10.00	0.008	0.646	0.01
43	16:24		0.882						
44	22:12		0.953						
45	21:06	0.99	0.906	1.00					
46	19:16		0.827		1.15	10.00	0.196	1.698	0.12
47	16:22		0.880						
48	17:14		0.927						
49	19:04	0.99	1.025	1.00	0.49	10.00	0.029	0.588	0.05
50	25:06	0.99	1.077	1.00	0.62	10.00	0.205	3.308	0.06

E 339

Quantitation Report File: 45338

ata: 45338.TI

12/11/87 19:32:00

Sample: A711041-03 (100 UL) MATRIX SPIKE DUP.

Conds.: 8' X 2MM ID 1%SP1000 36(2.5) TO 220 @8C/MIN

Formula:

Instrument: 5100

Weight: 0.000

Submitted by: WESTON

Analyst: JAP

Acct. No.: P&T

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

Resp. fac. from average of whole .RL

No	Name
51	C160 1,1,2-TRICHLOROETHANE
52	C250 O&P-XYLENE
53	C245 STYRENE
54	C161 1,2,3-TRICHLOROPROPANE
55	C210 2-HEXANONE
56	C226 TRANS-1,4-DICHLORO-2-BUTENE
57	C144 1,2-DIBROMO-3-CHLOROPROPANE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	97	490	16:20	2	0.884	A VB	384.	0.327 PPB	0.03
52	91	856	28:32	3	1.233	A BB	4915.	1.078 PPB	0.10
53	104	832	27:44	3	1.199	A VB	2470.	1.029 PPB	0.10
54	75	621	20:42	2	1.121	A BV	345.	0.265 PPB	0.03
55	NOT FOUND								
56	NOT FOUND								
57	NOT FOUND								

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
51	16:24	1.00	0.882	1.00	0.33	10.00	0.013	0.401	0.03
52	28:44	0.99	1.233	1.00	1.08	20.00	0.150	2.791	0.05
53	27:54	0.99	1.197	1.00	1.03	10.00	0.154	1.498	0.10
54	20:52	0.99	1.122	1.00	0.27	10.00	0.012	0.435	0.03
55	20:46		2.351						
56	21:24		0.918						
57	25:28		1.093						

AR103023

E-370

RADIAN
CORPORATION

DFTPP RESULTS

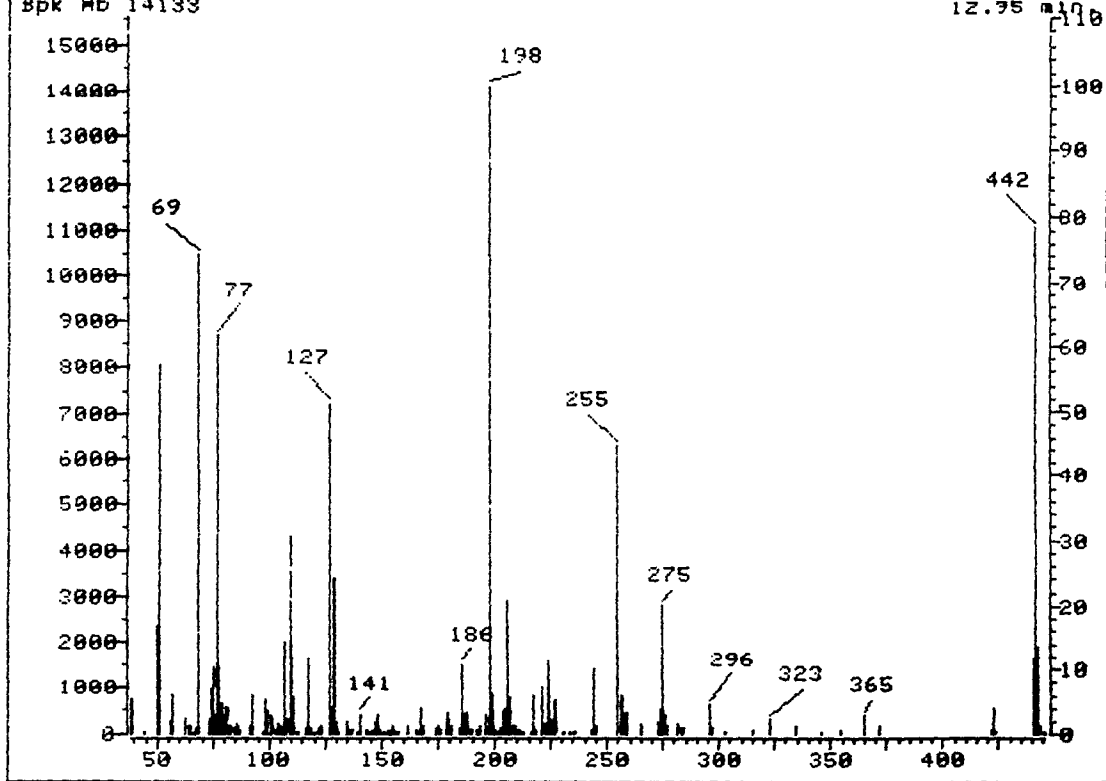
AR103024

File 037202 BFTPP DEMO
Spk No 14133

4-77

35-21.5020, IH=0.0, 35-450amu/4

Scan 658
12.75 min



AR103025

V-242

SAMPLE WORKSHEET FOR SEMIVOLATILES

CONTRACT NAME Weston Laboratories
CONTRACT NUMBER 325-001-01-01
RADIANT CONTACT Rob Richardson

SAMPLE DESCRIPTION

SAMPLE NO. (SAM) A711038-01C ANALYTE(S) 8270 TCLP
 OTHER _____

SAMPLE TYPE AQUEOUS SOLID ORG LIQ SORBENT
 OTHER _____

SAMPLE IDENTIFIER 6572 COMMENTS Mat.Spike Dupl.

SAMPLE PREPARATION

EXTRACTION METHOD 3510 SEPFUN 3520 CONTIN 3540 SOXHLET
 3550 SONICA 3580 DILUTION
 OTHER _____

SAMPLE SIZE _____ gms DATE EXTRACTED 10-November-1987
700 mL ANALYST AJC

SURROGATE SPIKING 100 uL OF _____ ug/mL SP-S-035
_____ uL OF _____ ug/mL _____

OTHER SPIKING 100 uL OF _____ ug/mL SP-S-044
_____ uL OF _____ ug/mL _____

EXTR. SOLVENT CH₂CL₂ OTHER _____
FINAL SOLVENT CH₂CL₂ OTHER _____

FINAL CONCENTRATE VOLUME 1.0 mL VOLUME DELIVERED 1.0 mL

CLEANUP PROCEDURE _____
VOLUME CLEANED _____ mL FINAL VOLUME _____ mL VOLUME DELIVERED _____ mL
COMMENT _____

DATE SUBMITTED 11-11-87 SUBMITTED BY AJC RECEIVED BY MCS

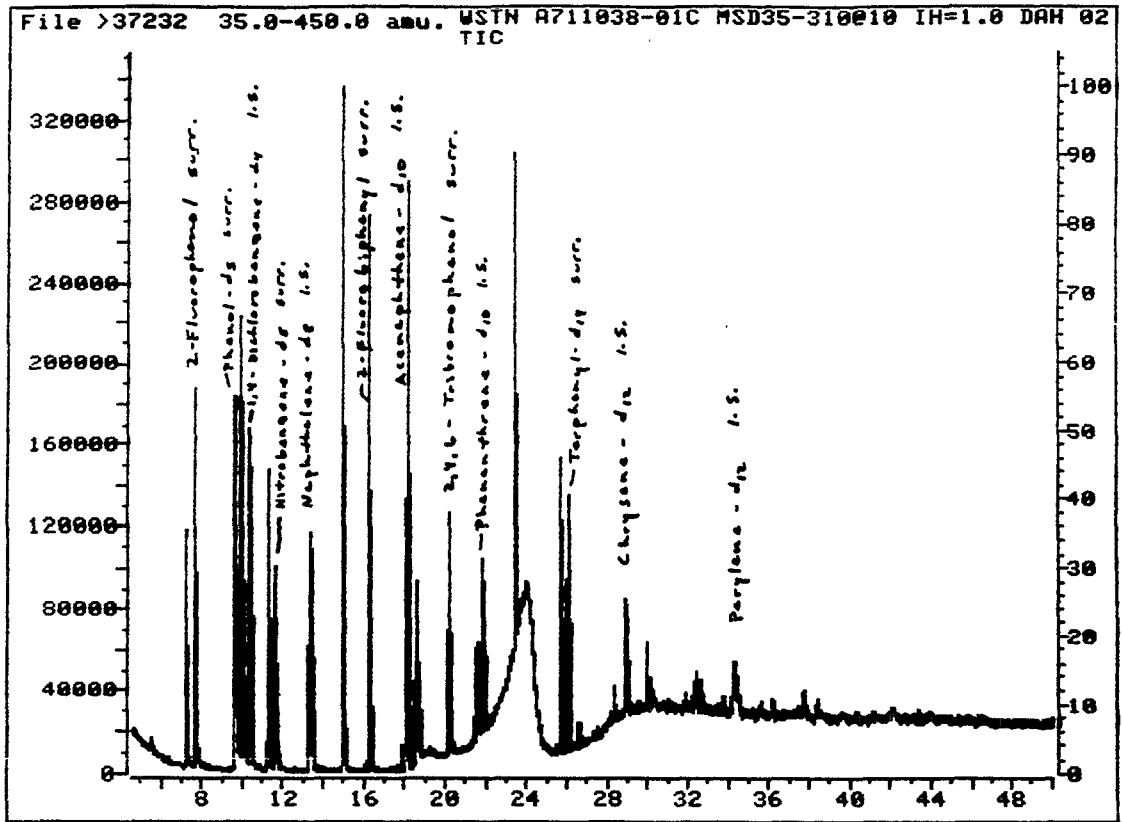
SAMPLE ANALYSIS

FRN >37232 DATE INJECTED 2DEC87 ANALYST MCK
SAMPLE DILUTION _____ mL DILUTED TO _____ mL VOLUME INJECTED _____
INTERNAL STANDARD _____
EXTRACTS CIS, ug/mL 50 OTHER _____
COMMENT: _____

Cppm = An x ug/mL IS = mL Extract x DF
RF mL sample size

AR103026

5243



Sample 6572 Matrix Spike Duplicate

02 Dec 87

700 mL sample

1253

1 mL extract

AR103027

QUANT REPORT

Operator ID: MCK
 Output File: ^37232::E3
 Data File: >37232::E7
 Name: WSTN A711038-01C MSD
 Misc: 35-310@10 IH=1.0 DAH 02DEC87

Quant Rev: 4 Quant Time: 871202 14:43
 Injected at: 871202 12:53
 Dilution Factor: 1.000

ID File: ICPEI::JK
 Title: ECAT SEMIVOLATILES FOR PEI
 Last Calibration: 871201 16:15

	Compound	R.T.	Scan#	Area	Conc	Units	g
1)	*1,4-DICHLOROCEENZENE-d4	10.25	751	47248	50.00	PPM	92
7)	2-FLUOROPHENOL SURROGATE	7.58	398	145628	49.02	PPM	92
11)	PHENOL-d5 SURROGATE	9.54	657	145883	47.35	PPM	94
12)	PHENOL	9.56	660	203876	124.35	PPM	100
17)	2-CHLOROPHENOL	9.86	699	213613	162.90	PPM	100
19)	1,4-DICHLOROCEENZENE	10.29	756	106959	74.74	PPM	92
27)	N-NITROSODI-n-PROPYLAMINE	11.29	887	107927	116.41	PPM	92
30)	*NAPHTHALENE-d8	13.39	1165	169500	50.00	PPM	93
32)	NITROBENZENE-d5 SURROGATE	11.60	929	123603	95.95	PPM	96
42)	1,2,4-TRICHLOROBENZENE	13.28	1151	85007	83.80	PPM	97
51)	4-CHLORO-3-METHYLPHENOL	14.91	1365	208105	215.66	PPM	96
55)	*ACENAPHTHENE-d10	17.97	1770	80746	50.00	PPM	100
61)	2-FLUOROBIPHENYL SURROGATE	16.22	1538	192264	79.85	PPM	100
71)	ACENAPHTHENE	18.06	1781	196421	87.40	PPM	93
73)	4-NITROPHENOL	18.45	1832	58016M	103.03	PPM	100
75)	2,4-DINITROTOLUENE	18.55	1846	59963	87.78	PPM	92
78)	2,4,6-TRIBROMOPHENOL SURROGATE	20.08	2047	48059	73.52	PPM	92
89)	*PHENANTHRENE-d10	21.86	2281	122044	50.00	PPM	96
95)	PENTACHLOROPHENOL	21.56	2242	24326M	100.17	PPM	93
99)	DIBUTYLPHTHALATE	23.43	2487	381585	111.22	PPM	98
103)	PYRENE	25.69	2784	232126	88.37	PPM	100
104)	*CHRYSENE-d12	28.91	3204	58310	50.00	PPM	98
105)	TERPHENYL-d14 SURROGATE	26.04	2830	128046	79.38	PPM	100
118)	*PERYLENE-d12	34.32	3907	80205	50.00	PPM	100

* Compound is ISTD

345

SAMPLE WORKSHEET FOR SEMIVOLATILES

CONTRACT NAME Weston Laboratories
CONTRACT NUMBER 325-001-01-01
RADIAN CONTACT Rob Richardson

SAMPLE DESCRIPTION

SAMPLE NO. (SAM) A711038-01B ANALYTE(S) 8270 TCLP
 OTHER _____

SAMPLE TYPE AQUEOUS SOLID ORG LIQ SORBENT
 OTHER _____

SAMPLE IDENTIFIER 6572 COMMENTS Matrix Spike

SAMPLE PREPARATION

EXTRACTION METHOD 3510 SEPFUN 3520 CONTIN 3540 SOXHLET
 3550 SONICA 3580 DILUTION
 OTHER _____

SAMPLE SIZE _____ gms DATE EXTRACTED 10-November-1987
700 mL ANALYST AJo

SURROGATE SPIKING 100 uL OF _____ ug/mL SP-S-035
_____ uL OF _____ ug/mL _____

OTHER SPIKING 100 uL OF _____ ug/mL SP-S-044
_____ uL OF _____ ug/mL _____

EXTR. SOLVENT CH₂CL₂ OTHER _____
FINAL SOLVENT CH₂CL₂ OTHER _____

FINAL CONCENTRATE VOLUME 1.0 mL VOLUME DELIVERED 1.0 mL

CLEANUP PROCEDURE _____
VOLUME CLEANED _____ mL FINAL VOLUME _____ mL VOLUME DELIVERED _____ mL
COMMENT _____

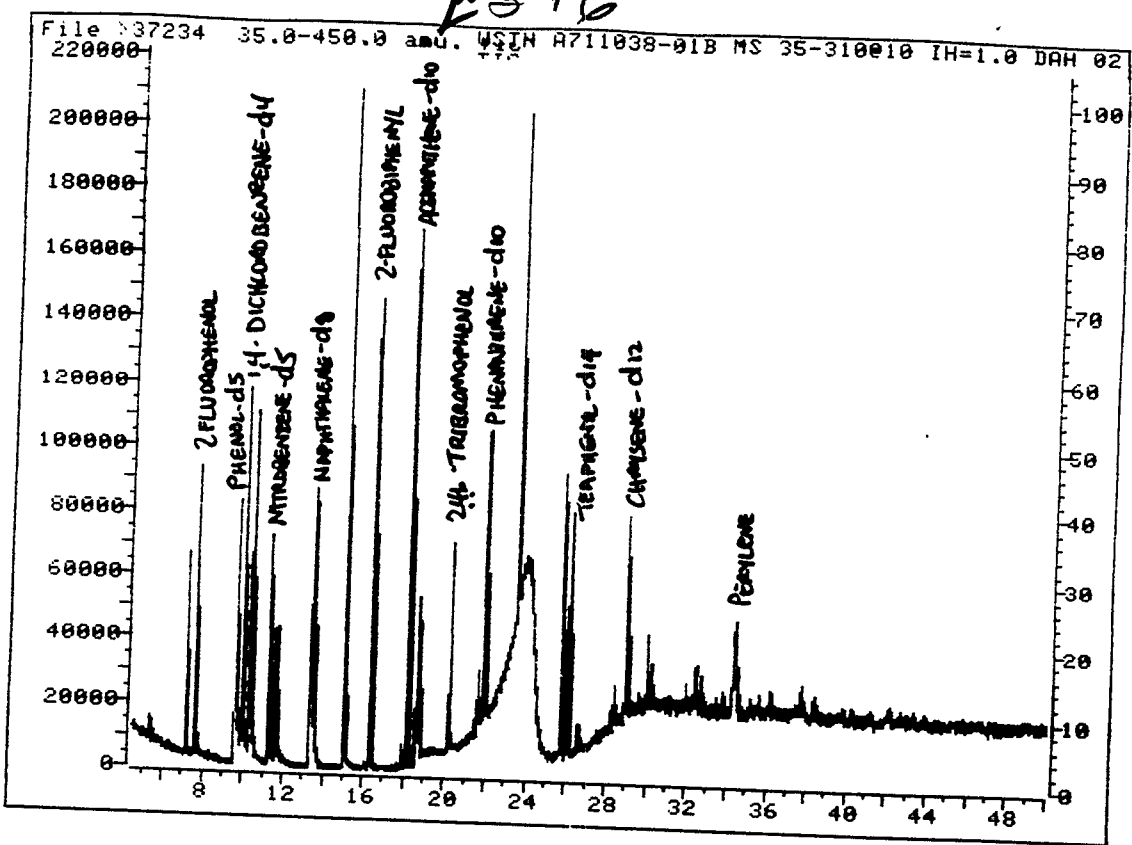
DATE SUBMITTED 11-11-87 SUBMITTED BY AJo RECEIVED BY MCS

SAMPLE ANALYSIS

FRN 237234 DATE INJECTED 20R87 ANALYST MCK
SAMPLE DILUTION _____ mL DILUTED TO _____ mL VOLUME INJECTED _____
INTERNAL STANDARD _____
EXTRACTS CIS, ug/mL 50 OTHER _____
COMMENT: _____

Cppm = An x ug/mL IS = mL Extract x DF
RF mL sample size

AR103029



12-2-87 14:43

AR103030

E'347

THE UNIVERSITY OF CHICAGO
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V-370

QUANTITATION REPORTS FOR SEMIVOLATILE SOILS

AR103031

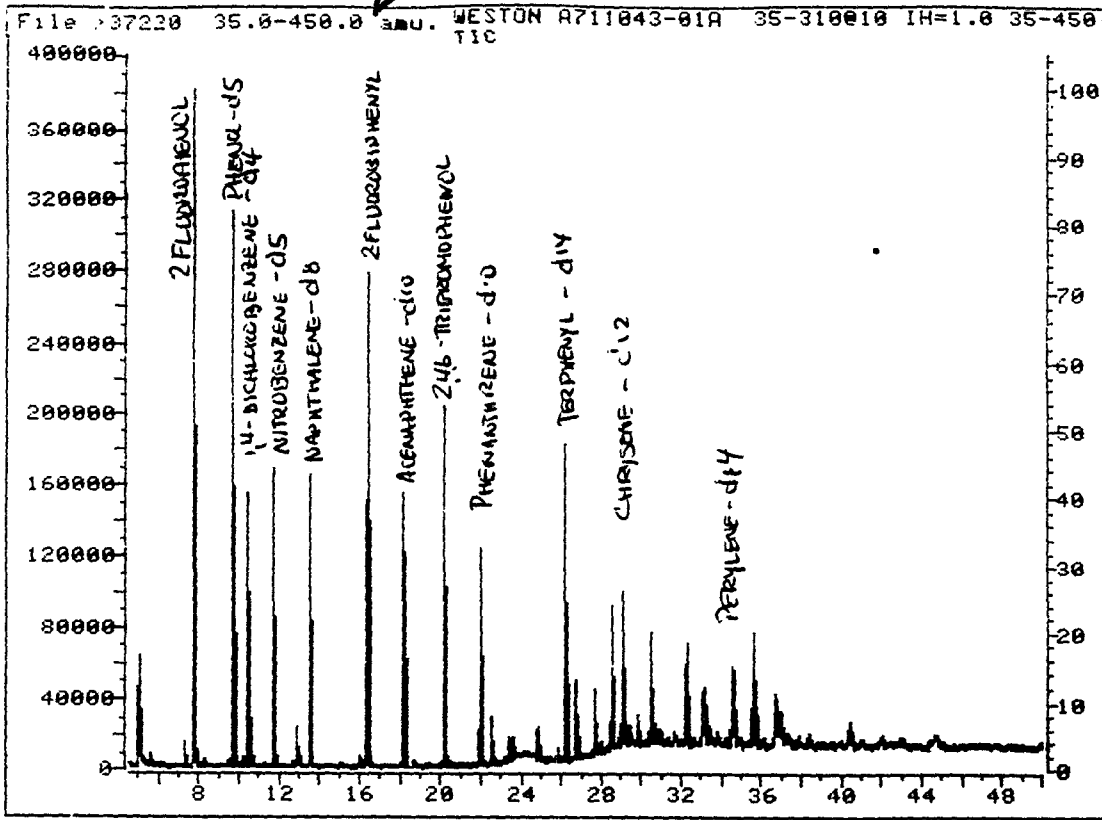
GLANT REPORT

Operator ID: MCK Quant Rev: 4 Quant Time: 871201 14:48
 Output File: ^37220::E3 Injected at: 871201 13:56
 Data File: >37220::E2 Dilution Factor: 1.000
 Name: WESTON A711043-01A
 Misc: 35-310@10 IH=1.0 35-450amu/.43S 30m DB5 MCK 1DEC87

ID File: IDFEI::JK
 Title: EDAT SEMIVOLATILES FOR FEI
 Last Calibration: 871201 10:59

	Compound	R.T.	Scan#	Area	Conc	Units	a
1)	*1,4-DICHLORCEENZENE-d4	10.38	769	59827	50.00	PPM	96
7)	2-FLUOROPHENYL SURROGATE	7.68	413	292677	77.80	PPM	97
11)	PHENYL-d5 SURROGATE	9.82	566	343023	87.92	PPM	97
30)	*NAPHTHALENE-d8	13.51	1123	209644	50.00	PPM	97
32)	NITROCEENZENE-d5 SURROGATE	11.73	948	151857	95.19	PPM	97
55)	*ACENAPHTHENE-d10	18.12	1792	96099	50.00	PPM	100
81)	2-FLUOROPHENYL SURROGATE	18.33	1558	230368	80.39	PPM	100
88)	2,4,6-TRIFLUOROPHENYL SURROGATE	20.20	2067	70362	90.45	PPM	95
89)	*PHENANTHRENE-d10	21.98	2302	152101	50.00	PPM	96
104)	*CHRYSENE-d12	29.01	3227	75584	50.00	PPM	98
105)	TERPHENYL-d14 SURROGATE	26.17	2854	170563	81.57	PPM	100
118)	*PERYLENE-d12	34.50	3946	104241	50.00	PPM	100

* Compound is ISTD



12-1-87

13:56

AR103033

V 201

SAMPLE WORKSHEET FOR SEMIVOLATILES

CONTRACT NAME Weston Laboratories
 CONTRACT NUMBER 325-001-01-01
 RADIAN CONTACT Rob Richardson

SAMPLE DESCRIPTION

SAMPLE NO. (SAM) A711043-01A ANALYTE(S) 8270 TCLP
 OTHER _____

SAMPLE TYPE AQUEOUS SOLID ORG LIQ SORBENT
 OTHER _____

SAMPLE IDENTIFIER 6572 COMMENTS _____

SAMPLE PREPARATION

EXTRACTION METHOD 3510 SEPFUN 3520 CONTIN 3540 SOXHLET
 3550 SONICA 3580 DILUTION
 OTHER _____

SAMPLE SIZE 10.25 gms _____ DATE EXTRACTED 11/13/87
 _____ mL ANALYST EE

SURROGATE SPIKING 100 uL OF _____ ug/mL SP-S-035
 _____ uL OF _____ ug/mL _____

OTHER SPIKING _____ uL OF _____ ug/mL _____
 _____ uL OF _____ ug/mL _____

EXTR. SOLVENT CH₂CL₂ OTHER _____
 FINAL SOLVENT CH₂CL₂ OTHER _____

FINAL CONCENTRATE VOLUME 1.0 mL VOLUME DELIVERED 1.0 mL

CLEANUP PROCEDURE _____
 VOLUME CLEANED _____ mL FINAL VOLUME _____ mL VOLUME DELIVERED _____ mL
 COMMENT _____

DATE SUBMITTED 11/19/87 SUBMITTED BY KP RECEIVED BY MCS

SAMPLE ANALYSIS

FRN 37220 DATE INJECTED 1DEC87 ANALYST MCK
 SAMPLE DILUTION _____ mL DILUTED TO _____ mL VOLUME INJECTED _____
 INTERNAL STANDARD _____
 EXTRACTS CIS, ug/mL 50 OTHER _____
 COMMENT: _____

C ppm = An x ug/mL IS = mL Extract x DF
 _____ RF _____ mL sample size

AR103034

V' 304

QUANT REPORT

Operator ID: MCK
 Output File: ^37223::E3
 Data File: ^37223::E6
 Name: WESTON A711043-02A
 Misc: 35-310@10 IH=1.0 MCK 01DEC87

Quant Rev: 4 Quant Time: 871201 16:21
 Injected at: 871201 17:23
 Dilution Factor: 1.000

ID File: ICFEI::JK
 Title: ECAT SEMIVOLATILES FOR FEI
 Last Calibration: 871201 16:15

	Compound	R.T.	Scan#	Area	Conc	Units	=
1)	*1,4-DICHLORCEENZENE-d4	10.35	771	56489	50.00	PPM	95
7)	2-FLUOROPHENYL SURROGATE	7.84	413	256785	72.29	PPM	95
11)	PHENYL-d5 SURROGATE	9.83	875	326280	88.57	PPM	95
30)	*NAPHTHALENE-d8	13.51	1187	196750	50.00	PPM	95
32)	NITROCEENZENE-d5 SURROGATE	11.72	951	153583	102.71	PPM	95
55)	*ACENAPHTHENE-d10	18.15	1799	93712	50.00	PPM	100
61)	2-FLUOROPHENYL SURROGATE	16.38	1565	221624	79.31	PPM	100
88)	2,4,6-TRIBROMOPHENYL SURROGATE	20.24	2075	67900	89.50	PPM	95
89)	*PHENANTHRENE-d10	22.01	2308	143504	50.00	PPM	98
99)	DIBUTYLPHTHALATE	22.57	2381	42765	10.60	PPM	95
104)	*CHRYSENE-d12	29.08	3233	70166	50.00	PPM	94
105)	TERPHENYL-d14 SURROGATE	26.20	2858	161078	82.98	PPM	100
118)	*PERYLENE-d12	34.60	3951	69716	50.00	PPM	100

Compound is ISTD

353

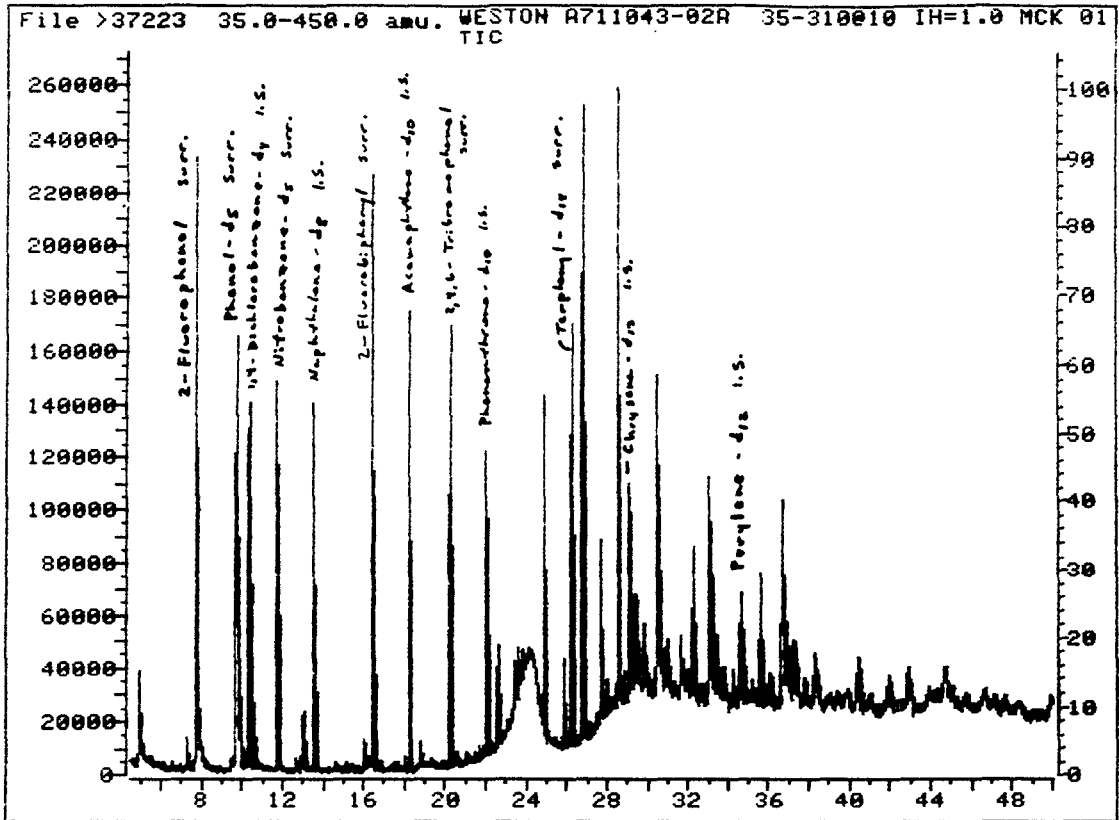
Sample 6578

01 Dec 87

1723

10.08g

1 mL



Sample 6578

01 Dec 87

1723

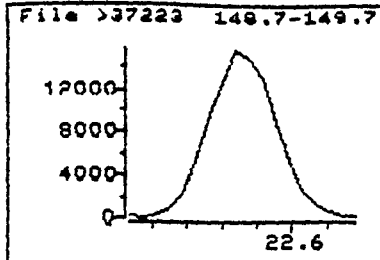
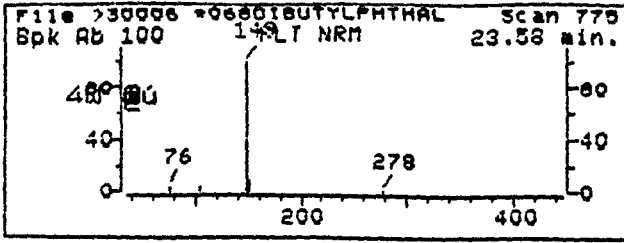
10.08g

1 mL

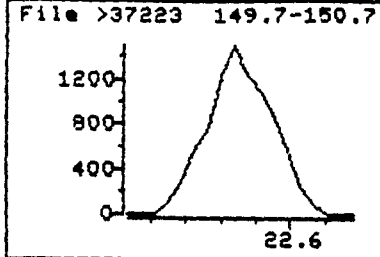
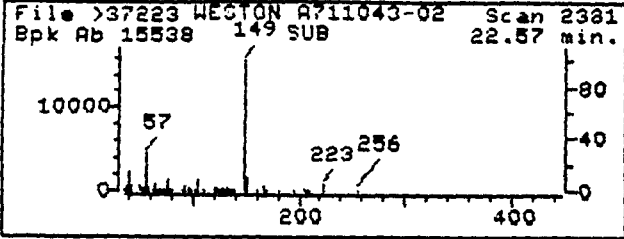
AR103036

V 204

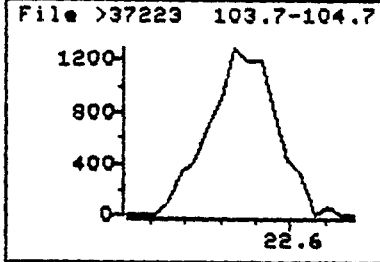
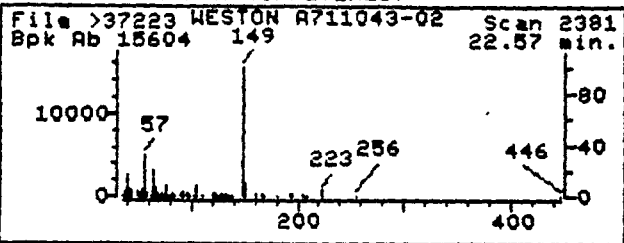
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >37223::E6
Name: WESTON A711043-02A
Misc: 35-310@10 IH=1.0 MCK 01DEC87
Quant Time: 871201 19:21
Injected at: 871201 17:23

Compound No: 99
Compound Name: DIBUTYLPHTHALATE
Scan Number: 2381
Retention Time: 22.57 min.
Area: 42765
Concentration: 10.60 PPM
q-value: 95

AR103037.

4300

SAMPLE WORKSHEET FOR SEMIVOLATILES

CONTRACT NAME Weston Laboratories
CONTRACT NUMBER 325-001-01-01
RADIAN CONTACT Rob Richardson

SAMPLE DESCRIPTION

SAMPLE NO. (SAM) A711043-02A ANALYTE(S) [] 8270 [] TCLP
[] OTHER _____

SAMPLE TYPE [] AQUEOUS [] SOLID [] ORG LIQ [] SORBENT
[] OTHER _____

SAMPLE IDENTIFIER 6578 COMMENTS _____

SAMPLE PREPARATION

EXTRACTION METHOD [] 3510 SEPFUN [] 3520 CONTIN [] 3540 SOXHLET
[] 3550 SONICA [] 3580 DILUTION
[] OTHER _____

SAMPLE SIZE 10.08 gms _____
_____ mL DATE EXTRACTED 11/13/87
ANALYST EE

SURROGATE SPIKING 100 uL OF _____ ug/mL SP-S-035
_____ uL OF _____ ug/mL _____

OTHER SPIKING _____ uL OF _____ ug/mL
_____ uL OF _____ ug/mL _____

EXTR. SOLVENT [] CH₂CL₂ [] OTHER _____
FINAL SOLVENT [] CH₂CL₂ [] OTHER _____

FINAL CONCENTRATE VOLUME 1.0 mL VOLUME DELIVERED 1.0 mL

CLEANUP PROCEDURE _____
VOLUME CLEANED _____ mL FINAL VOLUME _____ mL VOLUME DELIVERED _____ mL
COMMENT _____

DATE SUBMITTED 11/19/87 SUBMITTED BY KP RECEIVED BY MCS

SAMPLE ANALYSIS

FRN 37223 DATE INJECTED 01 Dec 87 ANALYST DAL

SAMPLE DILUTION _____ mL DILUTED TO _____ mL VOLUME INJECTED _____

INTERNAL STANDARD 50 1.5

EXTRACTS CIS, ug/mL 50 OTHER _____

COMMENT: _____

Cppm = An x ug/mL IS = mL Extract x DF
RF mL sample size

ARI03038

QUANT REPORT

Operator ID: MCK
 Output File: ^37222::E3
 Data File: >37222::E6
 Name: WESTON A711043-03A
 Misc: 35-310@10 IH=1.0 MCK 01DEC87

Quant Rev: 4 Quant Time: 871201 18:47
 Injected at: 871201 16:25
 Dilution Factor: 1.000

ID File: ICFEI::JK
 Title: ECAT SEMIVOLATILES FOR FEI
 Last Calibration: 871201 16:15

	Compound	R.T.	Scan#	Area	Conc	Units	a
1)	*1,4-DICHLORCEENZENE-d4	10.32	765	53271	50.00	PPM	99
7)	2-FLUOROBIPHENYL SURROGATE	7.59	404	247096	73.77	PPM	99
11)	BIPHENYL-d5 SURROGATE	9.58	667	304692	87.71	PPM	99
30)	*NAPHTHALENE-d8	13.49	1183	187137	50.00	PPM	99
32)	NITROCEENZENE-d5 SURROGATE	11.89	946	144903	101.89	PPM	97
55)	*ACENAPHTHENE-d10	18.15	1798	86278	50.00	PPM	100
61)	2-FLUOROBIPHENYL SURROGATE	16.37	1563	213448	82.97	PPM	100
86)	2,4,6-TRICHLOROBIPHENYL SURROGATE	20.23	2073	68872	98.61	PPM	95
89)	*PHENANTHRENE-d10	22.00	2307	137497	50.00	PPM	99
104)	*CHRYSENE-d12	29.06	3233	65963	50.00	PPM	98
105)	TERPHENYL-d14 SURROGATE	26.20	2858	158027	86.60	PPM	100
118)	*PERYLENE-d12	34.59	3953	94097	50.00	PPM	100

* Compound is ISTD

AR103039

V-301

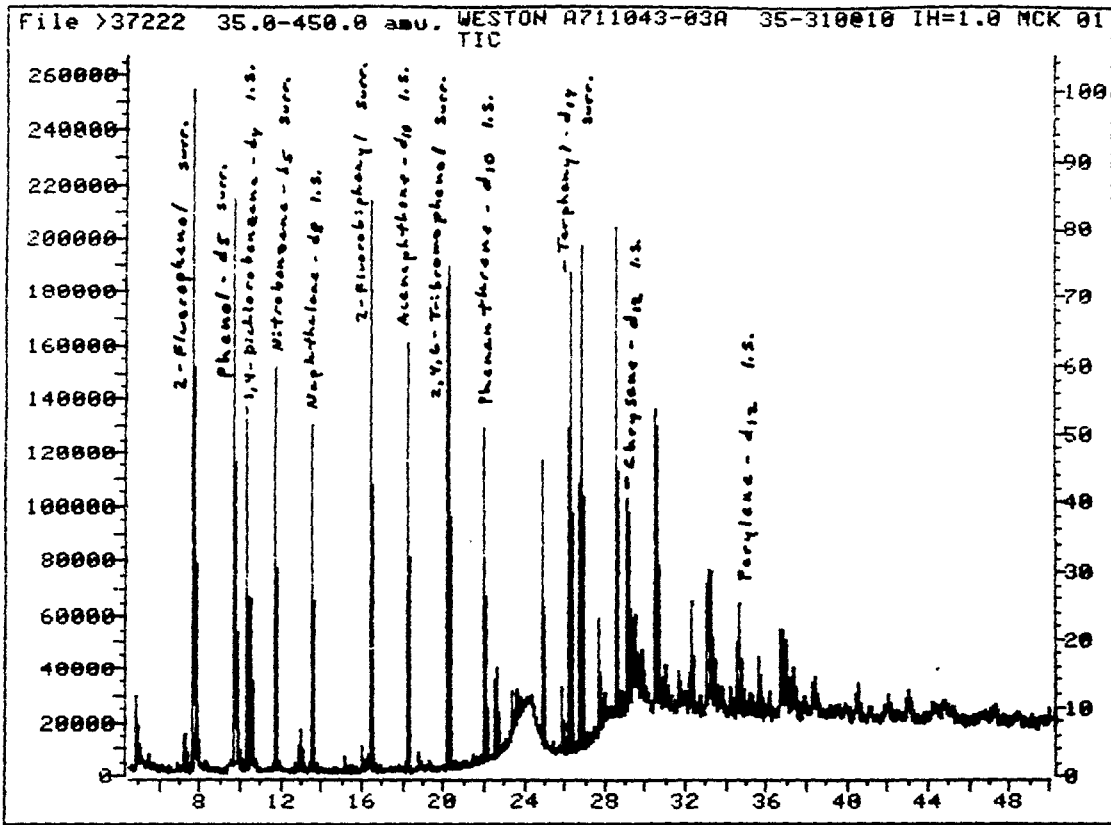
Sample 6579

01 Dec 87

1625

10.31g

1 mL



Sample 6579

01 Dec 87

1625

10.31g

1 mL

AR103040

E-200

SAMPLE WORKSHEET FOR SEMIVOLATILES

CONTRACT NAME Weston Laboratories
CONTRACT NUMBER 325-001-01-01
RADIAN CONTACT Rob Richardson

SAMPLE DESCRIPTION

SAMPLE NO. (SAM) A711043-03A ANALYTE(S) 8270 TCLP
 OTHER _____

SAMPLE TYPE AQUEOUS SOLID ORG LIQ SORBENT
 OTHER _____

SAMPLE IDENTIFIER 6579 COMMENTS _____

SAMPLE PREPARATION

EXTRACTION METHOD 3510 SEPFUN 3520 CONTIN 3540 SOXHLET
 3550 SONICA 3580 DILUTION
 OTHER _____

SAMPLE SIZE 10.31 gms DATE EXTRACTED 11/13/87
_____ mL ANALYST EE

SURROGATE SPIKING 100 uL OF _____ ug/mL SP-S-035
_____ uL OF _____ ug/mL _____

OTHER SPIKING _____ uL OF _____ ug/mL
_____ uL OF _____ ug/mL _____

EXTR. SOLVENT CH₂CL₂ OTHER _____
FINAL SOLVENT CH₂CL₂ OTHER _____

FINAL CONCENTRATE VOLUME 1.0 mL VOLUME DELIVERED 1.0 mL

CLEANUP PROCEDURE _____
VOLUME CLEANED _____ mL FINAL VOLUME _____ mL VOLUME DELIVERED _____ mL
COMMENT _____

DATE SUBMITTED 11/19/87 SUBMITTED BY KP RECEIVED BY MCS

SAMPLE ANALYSIS

FRN 237222 DATE INJECTED 01 Dec 87 ANALYST ACK
SAMPLE DILUTION _____ mL DILUTED TO _____ mL VOLUME INJECTED _____
INTERNAL STANDARD 50 1.5
EXTRACTS CIS, ug/mL 50 OTHER _____
COMMENT: _____

Cppm = An x ug/mL IS = mL Extract x DF
_____ RF _____ mL sample size

AR103041

CLAMT REPORT

E-359

Operator ID: MCK
Output File: ^37224::E3
Data File: ^37224::E6
Name: WESTON A711043-04A
Misc: 35-310@10 IH=1.0 DAH 01DEC87

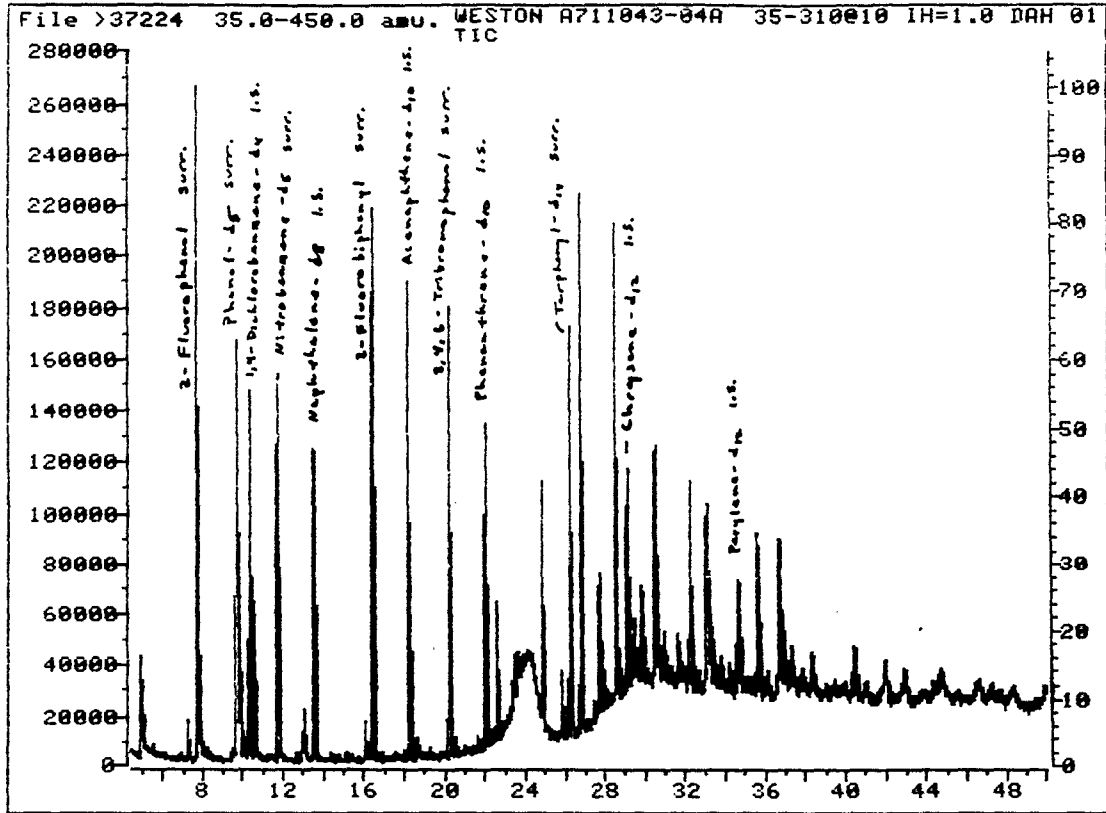
Quant Rev: 4 Quant Time: 871201 19:45
 Injected at: 871201 18:18
Dilution Factor: 1.000

ID File: ICPEI::JK
Title: ECAT SEMIVOLATILES FOR PEI
Last Calibration: 871201 16:15

	Compound	R.T.	Scan#	Area	Conc	Units	a
1)	*1,4-DICHLORCEENZENE-d4	10.34	773	22081	50.00	PPM	95
7)	2-FLUOROPHENYL SURROGATE	7.63	415	286702	73.44	PPM	100
11)	PHENOL-d5 SURROGATE	5.81	276	369089	91.17	PPM	100
30)	*NAPHTHALENE-d8	13.50	1190	220383	50.00	PPM	100
32)	NITROCEENZENE-d5 SURROGATE	11.71	954	170000	101.50	PPM	100
55)	*ACENAPHTHENE-d10	19.15	1804	102973	50.00	PPM	100
61)	2-FLUOROBIPHENYL SURROGATE	16.38	1570	244037	79.48	PPM	100
88)	2,4,6-TRICHLOROPHENOL SURROGATE	20.24	2080	76670	91.97	PPM	94
89)	*PHENANTHRENE-d10	22.00	2312	162679	50.00	PPM	97
104)	*CHRYSENE-d12	29.06	3236	76690	50.00	PPM	96
105)	TERPHENYL-d14 SURROGATE	26.20	2863	176727	80.17	PPM	100
118)	*PERYLENE-d12	34.62	3959	83471	50.00	PPM	100

* Compound is ISTD

5-260



Sample 6520

01 Dec 87

1818

10.27 g

1 mL

AR103043

501

SAMPLE WORKSHEET FOR SEMIVOLATILES

CONTRACT NAME Weston Laboratories
CONTRACT NUMBER 325-001-01-01
RADIAN CONTACT Rob Richardson

SAMPLE DESCRIPTION

SAMPLE NO. (SAM) A711043-04A ANALYTE(S) [XX] 8270 [] TCLP
[] OTHER

SAMPLE TYPE [] AQUEOUS [XX] SOLID [] ORG LIQ [XX] SORBENT
[] OTHER

SAMPLE IDENTIFIER 6580 COMMENTS

SAMPLE PREPARATION

EXTRACTION METHOD [] 3510 SEPFUN [] 3520 CONTIN [XX] 3540 SOXHLET
[] 3550 SONICA [] 3580 DILUTION
[] OTHER

SAMPLE SIZE 10.27 gms DATE EXTRACTED 11/13/87
mL ANALYST EE

SURROGATE SPIKING 100 uL OF _____ ug/mL SP-S-035
uL OF _____ ug/mL

OTHER SPIKING _____ uL OF _____ ug/mL
uL OF _____ ug/mL

EXTR. SOLVENT [XX] CH₂CL₂ [] OTHER
FINAL SOLVENT [X] CH₂CL₂ [] OTHER

FINAL CONCENTRATE VOLUME 1.0 mL VOLUME DELIVERED 1.0 mL

CLEANUP PROCEDURE
VOLUME CLEANED _____ mL FINAL VOLUME _____ mL VOLUME DELIVERED _____ mL
COMMENT

DATE SUBMITTED 11/19/87 SUBMITTED BY KP RECEIVED BY MCS

SAMPLE ANALYSIS

FRN >37224 DATE INJECTED 01 Dec 87 ANALYST DAK
SAMPLE DILUTION _____ mL DILUTED TO _____ mL VOLUME INJECTED _____
INTERNAL STANDARD 50 ug 1.5.
EXTRACTS CIS, ug/mL 50 OTHER
COMMENT:

Cppm = An x ug/mL IS = mL Extract x DF
RF mL sample size

AR103044

6362

GLANT REPORT

Operator ID: MCK
 Output File: ^37221::E3
 Data File: >37221::E2
 Name: WESTON A711043-05A
 Misc: 35-310@10 IH=1.0 MCK 01DEC87

Quant Rev: 4 Quant Time: 871201 18:19
 Injected at: 871201 15:31
 Dilution Factor: 1.000

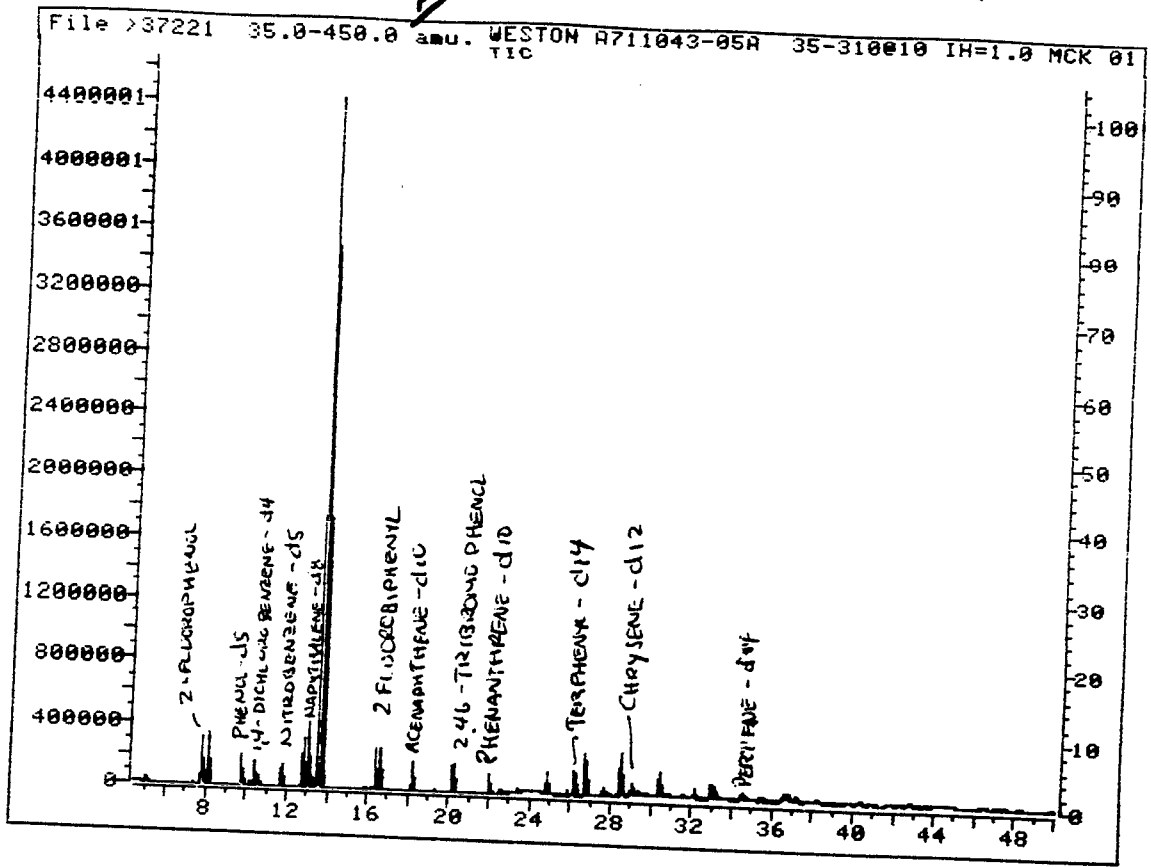
ID File: ICPEI::JK
 Title: ECAT SEMIVOLATILES FOR PEI
 Last Calibration: 871201 18:15

	Compound	R.T.	Scan#	Area	Conc	Units	
1)	*1,4-DICHLOROCEENZENE-d4	10.40	778	73214	50.00	PPM	98
7)	2-FLUOROPHENOL SURROGATE	7.73	424	328419	71.34	PPM	98
11)	PHENOL-d5 SURROGATE	9.65	578	136867	28.27	PPM	98
30)	*NAPHTHALENE-d8	13.52	1189	279922	50.00	PPM	98
32)	NITROCEENZENE-d5 SURROGATE	11.74	953	181835	85.47	PPM	98
55)	*ACENAPHTHENE-d10	18.13	1797	112065	50.00	PPM	100
61)	2-FLUOROBIPHENYL SURROGATE	16.36	1563	248075	74.24	PPM	100
88)	2,4,6-TRIBROMOPHENOL SURROGATE	20.22	2073	80723	88.98	PPM	98
89)	*PHENANTHRENE-d10	21.99	2307	180535	50.00	PPM	97
104)	*CHRYSENE-d12	29.01	3227	91054	50.00	PPM	93
105)	TERPHENYL-d14 SURROGATE	26.17	2856	191154	75.89	PPM	100
118)	*PERYLENE-d12	34.47	3938	56089	50.00	PPM	100

Compound is ISTD

ARI03045

365



12-1-87

15..31

AR103046

1367

SAMPLE WORKSHEET FOR SEMIVOLATILES

CONTRACT NAME Weston Laboratories
CONTRACT NUMBER 325-001-01-01
RADIAN CONTACT Rob Richardson

SAMPLE DESCRIPTION

SAMPLE NO. (SAM) A711043-05A ANALYTE(S) [] 8270 [] TCLP
[] OTHER _____

SAMPLE TYPE [] AQUEOUS [] SOLID [] ORG LIQ [] SORBENT
[] OTHER _____

SAMPLE IDENTIFIER 6581 COMMENTS _____

SAMPLE PREPARATION

EXTRACTION METHOD [] 3510 SEPFUN [] 3520 CONTIN [] 3540 SOXHLET
[] 3550 SONICA [] 3580 DILUTION
[] OTHER _____

SAMPLE SIZE 10.27 gms DATE EXTRACTED 11/13/87
_____ mL ANALYST EE

SURROGATE SPIKING 100 uL OF _____ ug/mL SP-S-035
_____ uL OF _____ ug/mL _____

OTHER SPIKING _____ uL OF _____ ug/mL
_____ uL OF _____ ug/mL _____

EXTR. SOLVENT [] CH₂CL₂ [] OTHER _____
FINAL SOLVENT [] CH₂CL₂ [] OTHER _____

FINAL CONCENTRATE VOLUME 1.0 mL VOLUME DELIVERED 1.0 mL

CLEANUP PROCEDURE _____
VOLUME CLEANED _____ mL FINAL VOLUME _____ mL VOLUME DELIVERED _____ mL
COMMENT _____

DATE SUBMITTED 11/19/87 SUBMITTED BY KT RECEIVED BY MCS

SAMPLE ANALYSIS

FRN 73724 DATE INJECTED 10DEC87 ANALYST MCK
SAMPLE DILUTION _____ mL DILUTED TO _____ mL VOLUME INJECTED _____
INTERNAL STANDARD _____
EXTRACTS CIS, ug/mL 50 OTHER _____
COMMENT: _____

Cppm = An x ug/mL IS = mL Extract x DF
_____ RF _____ mL sample size

AR103047

QUANT REPORT

Quant Rev: 4 Quant Time: 871201 20:24
Injected at: 871201 19:15
Dilution Factor: 1.000

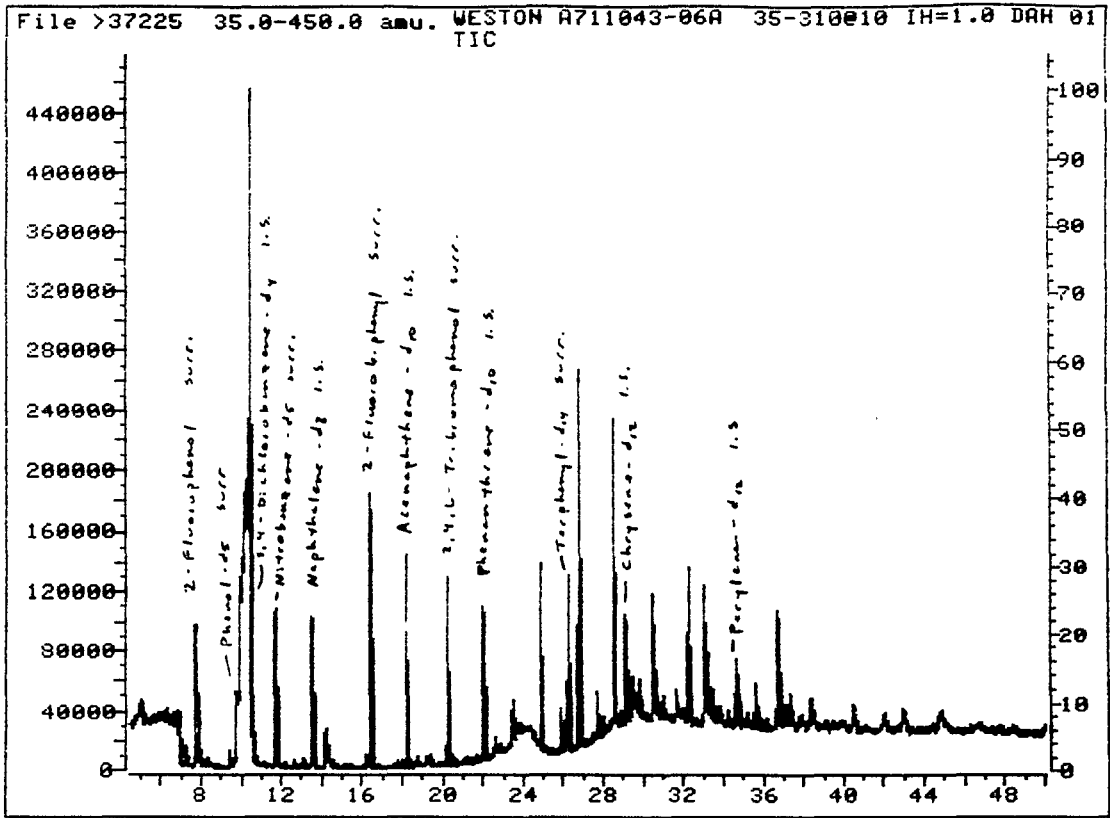
Operator ID: MCK
Output File: ^37225::E3
Data File: >37225::E6
Name: WESTON A711043-06A
Misc: 35-310@10 IH=1.0 DAH 01DEC87

ID File: IDFEI::JK
Title: ECAT SEMIVOLATILES FOR FEI
Last Calibration: 871201 16:15

	Compound	R.T.	Scan#	Area	Conc	Units	
1)	*1,4-DICHLOROBENZENE-d4	10.34	772	51651	50.00	PPM	98
7)	2-FLUOROPHENYL SURROGATE	7.66	419	97538	26.95	PPM	79
11)	PHENCL-d5 SURROGATE	9.25	682	63873	18.96	PPM	91
30)	*NAPHTHALENE-d8	13.50	1190	159201	50.00	PPM	92
32)	NITROBENZENE-d5 SURROGATE	11.71	953	115821	95.73	PPM	93
55)	*ACENAPHTHENE-d10	18.14	1802	75466	50.00	PPM	100
61)	2-FLUOROBIPHENYL SURROGATE	16.37	1568	154553	68.68	PPM	100
88)	2,4,6-TRIBROMOPHENYL SURROGATE	20.23	2078	47434	77.64	PPM	98
89)	*PHENANTHRENE-d10	22.00	2310	118781	50.00	PPM	99
104)	*CHRYSENE-d12	29.06	3234	58925	50.00	PPM	97
105)	TERPHENYL-d14 SURROGATE	26.19	2860	111749	68.55	PPM	100
118)	*PERYLENE-d12	34.60	3954	61163	50.00	PPM	100

* Compound is ISTD

E366



Sample 6582

01 Dec 87

1915

10.25g

1 mL

AR103049

V-361

SAMPLE WORKSHEET FOR SEMIVOLATILES

CONTRACT NAME Weston Laboratories
CONTRACT NUMBER 325-001-01-01
RADIAN CONTACT Rob Richardson

SAMPLE DESCRIPTION

SAMPLE NO. (SAM) A711043-06A ANALYTE(S) 8270 TCLP
 OTHER _____

SAMPLE TYPE AQUEOUS SOLID ORG LIQ SORBENT
 OTHER _____

SAMPLE IDENTIFIER 6582 COMMENTS _____

SAMPLE PREPARATION

EXTRACTION METHOD 3510 SEPFUN 3520 CONTIN 3540 SOXHLET
 3550 SONICA 3580 DILUTION
 OTHER _____

SAMPLE SIZE 10.25 gms _____
_____ mL DATE EXTRACTED 11/13/87
ANALYST EE

SURROGATE SPIKING 100 uL OF _____ ug/mL SP-S-035
_____ uL OF _____ ug/mL _____

OTHER SPIKING _____ uL OF _____ ug/mL
_____ uL OF _____ ug/mL _____

EXTR. SOLVENT CH₂CL₂ OTHER _____
FINAL SOLVENT CH₂CL₂ OTHER _____

FINAL CONCENTRATE VOLUME 1.0 mL VOLUME DELIVERED 1.0 mL

CLEANUP PROCEDURE _____
VOLUME CLEANED _____ mL FINAL VOLUME _____ mL VOLUME DELIVERED _____ mL
COMMENT _____

DATE SUBMITTED 11/19/87 SUBMITTED BY KP RECEIVED BY MCS

SAMPLE ANALYSIS

FRN >37225 DATE INJECTED 01 Dec 87 ANALYST DAH

SAMPLE DILUTION _____ mL DILUTED TO _____ mL VOLUME INJECTED _____

INTERNAL STANDARD 50 ug I.S.

EXTRACTS CIS, ug/mL 50 OTHER _____

COMMENT: _____

Cppm = An x ug/mL IS = mL Extract x DF

RF mL sample size

AR103050

4368

:CREF, ^37231

CLANT REPORT

Generator ID: MCK
Output File: ^37231::E3
Data File: >37231::E7
Name: WESTON A711043-07A
Misc: 35-310@10 IH=1.0 MCK 02DEC87

Quant Rev: 4 Quant Time: 871202 13:11
 Injected at: 871202 11:55
Dilution Factor: 1.000

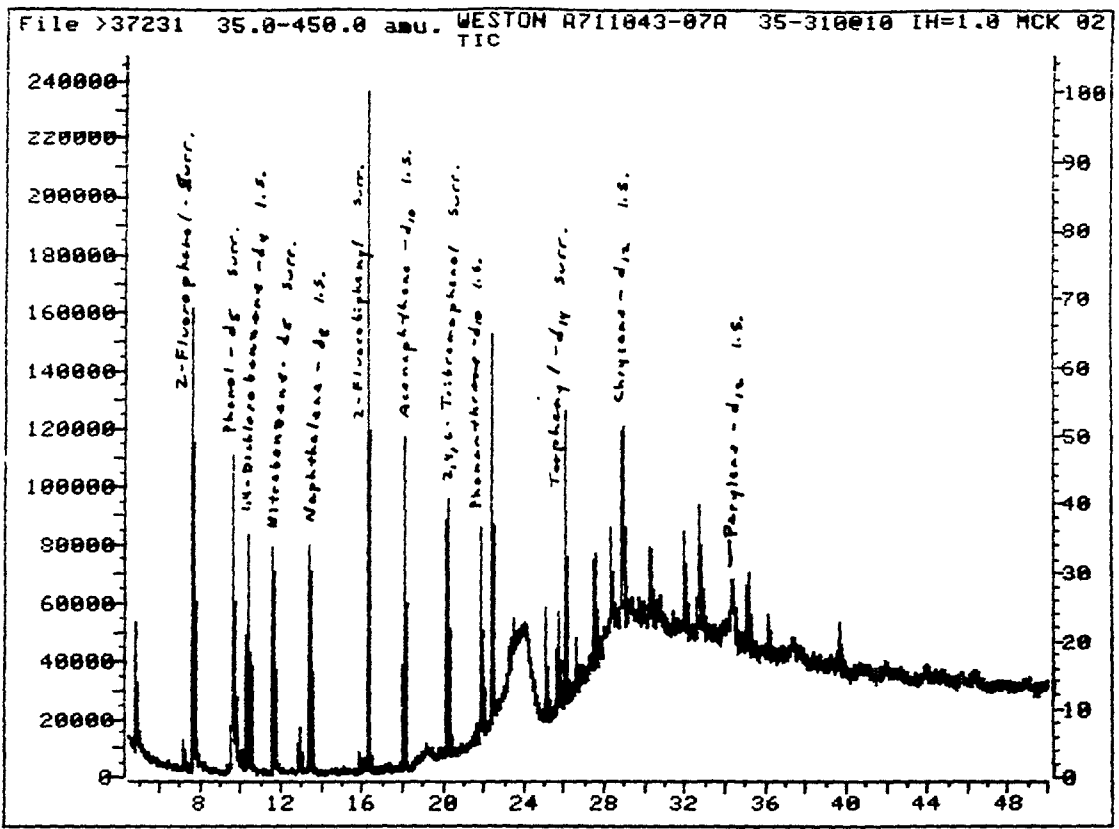
ID File: ICFEI::JK
Title: ECAT SEMIVOLATILES FOR FEI
Last Calibration: 871201 16:15

Compound	R.T.	Scan#	Area	Conc	Units	g
1) *1,4-DICHLOROCEENZENE-d4	10.26	759	39541	50.00	PPM	97
7) 2-FLUOROPHENYL SURROGATE	7.57	404	135869	74.76	PPM	73
11) PHENOL-d5 SURROGATE	9.54	665	219997	84.93	PPM	99
10) *NAPHTHALENE-d8	13.41	1175	141208	50.00	PPM	93
12) NITROCEENZENE-d5 SURROGATE	11.61	638	108154	100.78	PPM	97
55) *ACENAPHTHENE-d10	18.01	1782	65805	50.00	PPM	100
61) 2-FLUOROETHYLPHENYL SURROGATE	16.25	1550	161735	82.43	PPM	100
88) 2,4,6-TRIBROMOPHENOL SURROGATE	20.11	2059	27418	51.47	PPM	90
89) *PHENANTHRENE-d10	21.87	2290	103233	50.00	PPM	98
97) PHENANTHRENE	21.93	2298	34058	15.83	PPM -	97
101) FLUCRANTHENE	25.10	2712	58856	27.79	PPM -	100
103) PYRENE	25.69	2790	48048	21.62	PPM -	100
104) *CHRYSENE-d12	28.91	3208	52704	50.00	PPM	98
105) TERPHENYL-d14 SURROGATE	26.05	2837	110758	75.97	PPM	100
104) BENZ(a)ANTHRACENE	28.86	3201	28247M	14.48	PPM -	9
106) CHRYSENE	28.98	3217	23118M	13.57	PPM -	
118) *PERYLENE-d12	34.32	3907	41522	50.00	PPM	100
120) BENZO(b)FLUCRANTHENE	32.62	3687	22379M	17.37	PPM -	85
121) BENZO(k)FLUCRANTHENE	32.66	3692	24974M	21.66	PPM -	86
122) BENZO(a)PYRENE	34.08	3876	24889M	31.29	PPM -	93

* Compound is ISTD

ARI03051

6569



Sample 6583

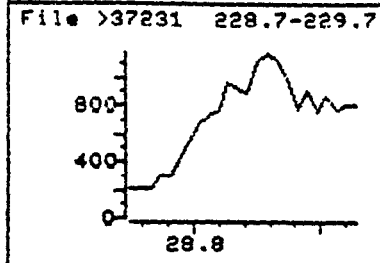
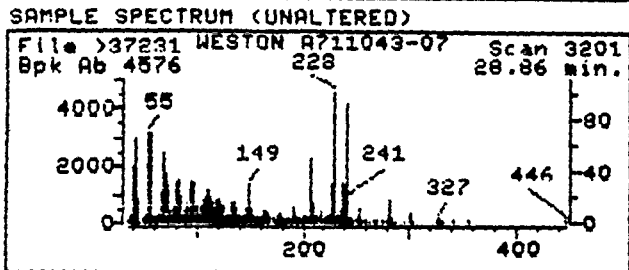
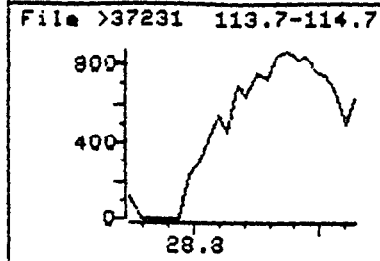
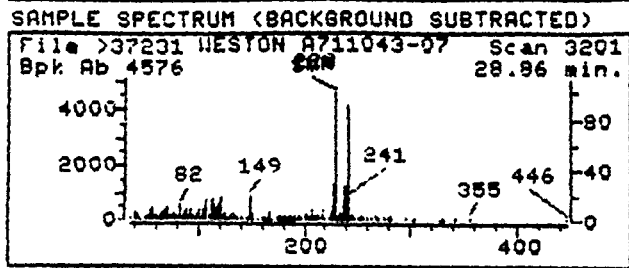
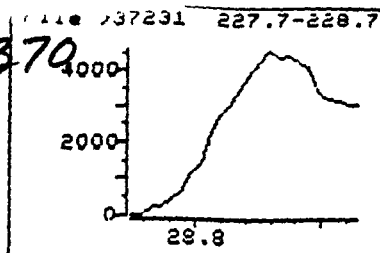
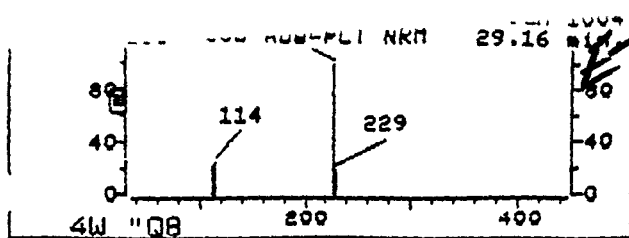
02 Dec 87

1155

10.34 g

1 mL

AR103052



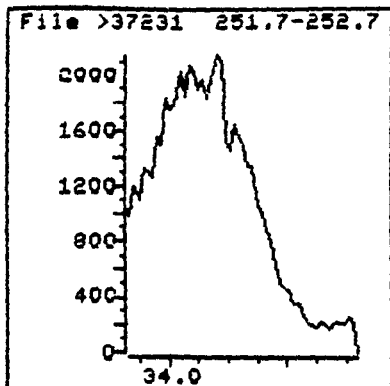
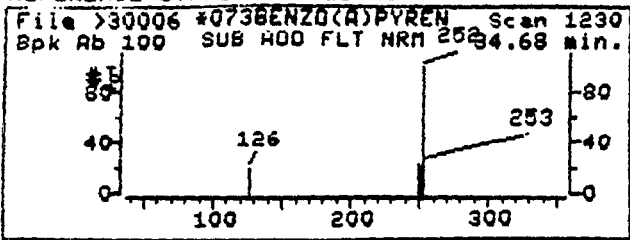
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 Name: WESTON A711043-07A
 Misc: 35-310@10 IH=1.0 MCK 02DEC87
 Quant Time: 871202 13:11
 Injected at: 871202 11:55

Compound No: 114
 Compound Name: BENZ(a)ANTHRACENE
 Scan Number: 3201
 Retention Time: 28.86 min.
 Area: 28247M
 Concentration: 14.48 PPM
 q-value: 93

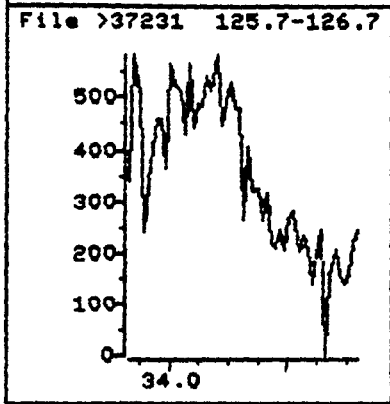
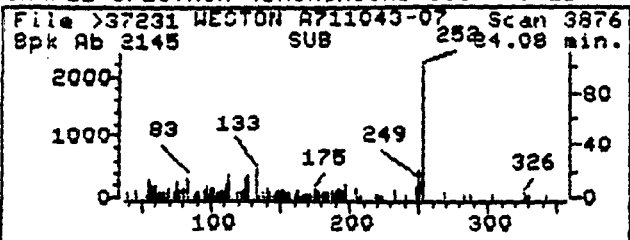
AR103053

V 311

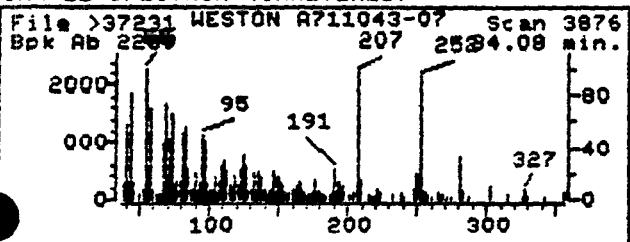
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

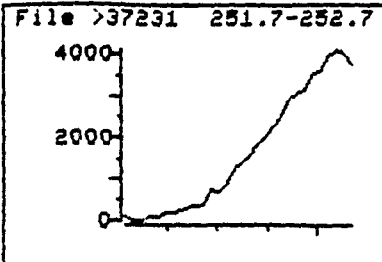
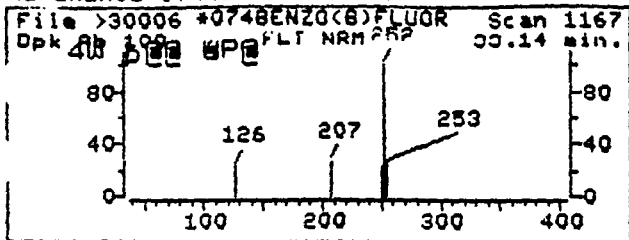


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 Name: WESTON A711043-07A
 Misc: 35-310@10 IH=1.0 MCK 02DEC87
 Quant Time: 871202 13:11
 Injected at: 871202 11:55
 Compound No: 122
 Compound Name: BENZO(a)PYRENE
 Scan Number: 3876
 Retention Time: 34.08 min.
 Area: 24889M
 Concentration: 31.29 PPM
 q-value: 93

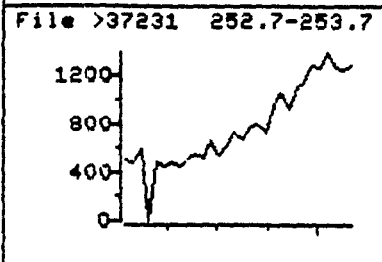
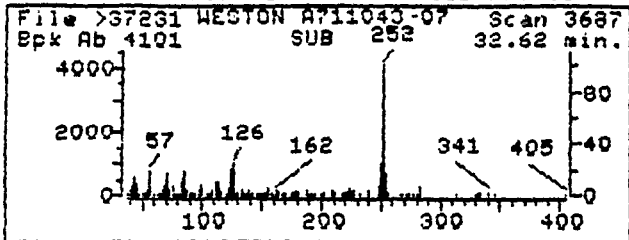
AR103054

V 512

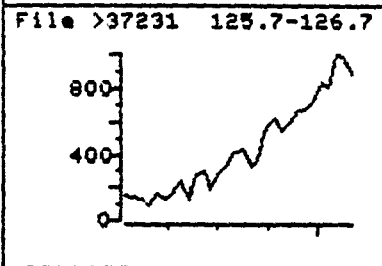
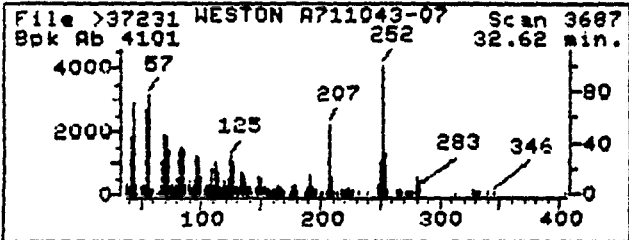
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



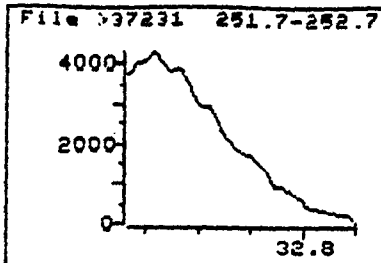
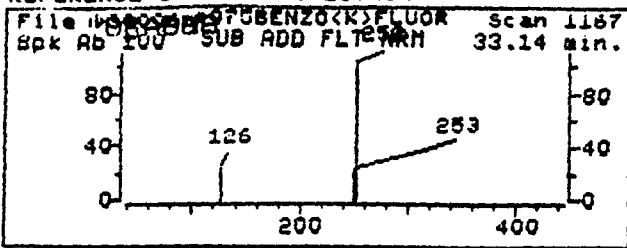
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 Misc: 35-310@10 IH=1.0 MCK 02DEC87
 Quant Time: 871202 13:11
 Injected at: 871202 11:55

Compound No: 120
 Compound Name: BENZO(b)FLUORANTHENE
 Scan Number: 3687
 Retention Time: 32.62 min.
 Area: 22379M
 Concentration: 17.37 PPM
 q-value: R5

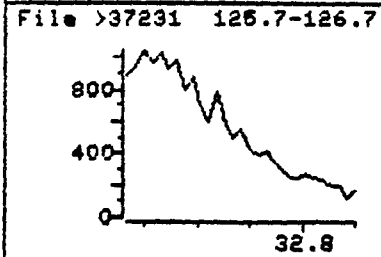
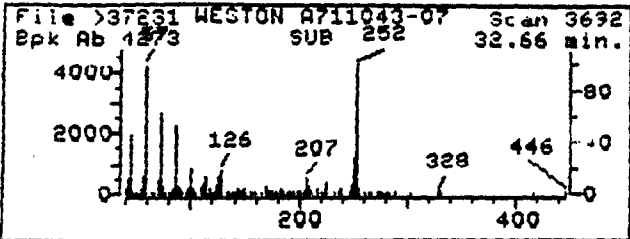
AR103055

V 5 1 0

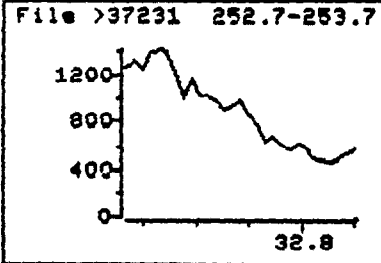
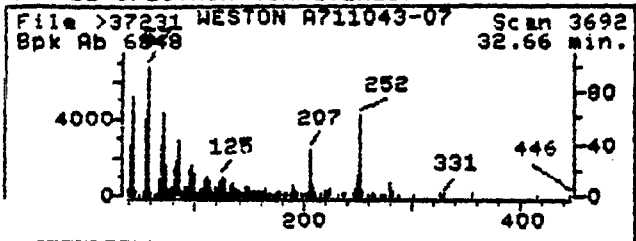
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SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



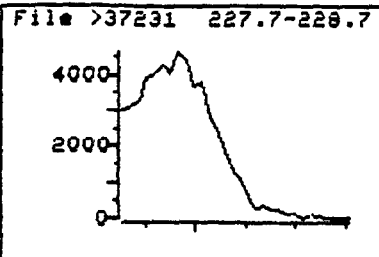
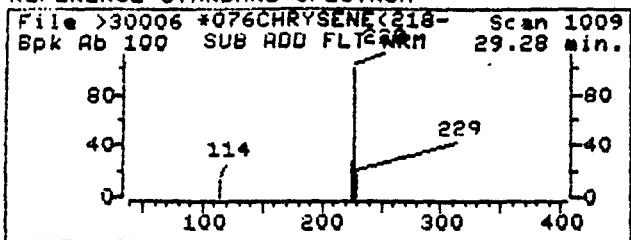
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Name: WESTON A711043-07A
Misc: 35-310@10 IH=1.0 MCK 02DEC87
Quant Time: 871202 13:11
Injected at: 871202 11:55

Compound No: 121
Compound Name: BENZO(k)FLUORANTHENE
Scan Number: 3692
Retention Time: 32.66 min.
Area: 24974M
Concentration: 21.66 PPM
q-value: 86

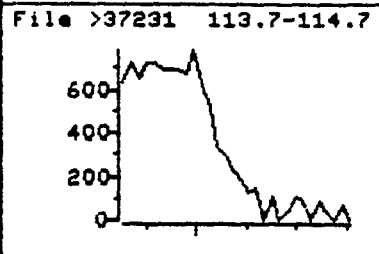
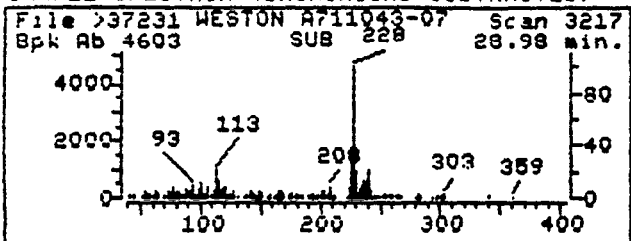
AR103056

E 317

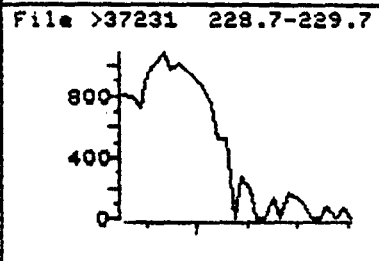
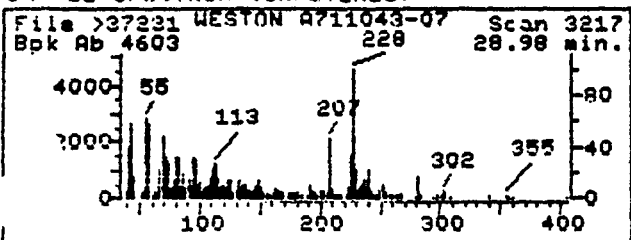
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



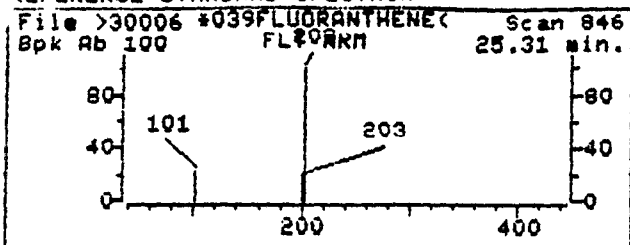
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Name: WESTON A711043-07A
Misc: 35-310@10 IH=1.0 MCK 02DEC87
Quant Time: 871202 13:11
Injected at: 871202 11:55

Compound No: 116
Compound Name: CHRYSENE
Scan Number: 3217
Retention Time: 28.98 min.
Concentration: 13.57 PPM

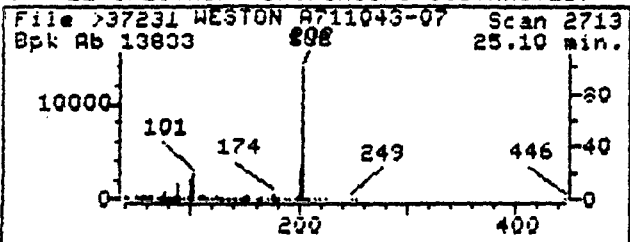
ARI03057

E 375

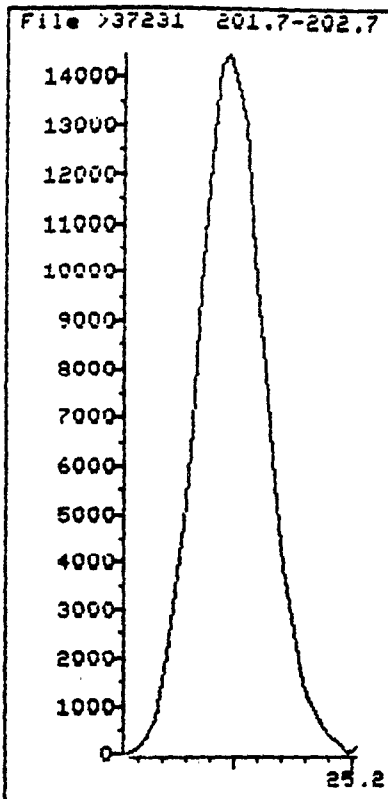
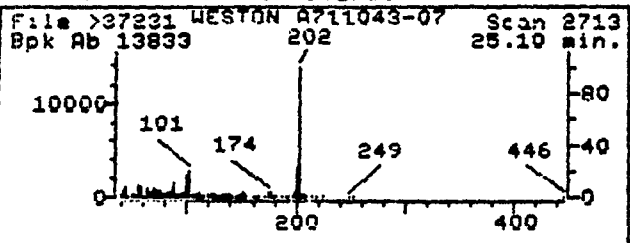
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



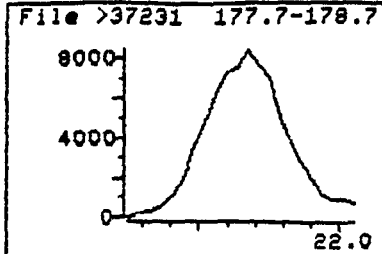
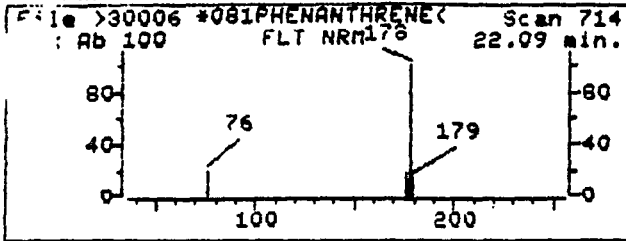
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Misc: 35-310@10 IH=1.0 MCK 02DFC87
Quant Time: 871202 13:11
Injected at: 871202 11:55

Compound No: 101
Compound Name: FLUORANTHENE
Scan Number: 2712
Retention Time: 25.10 min.
Area: 58856
Concentration: 27.79 PPM
q-value: 100

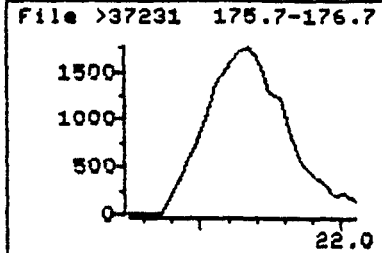
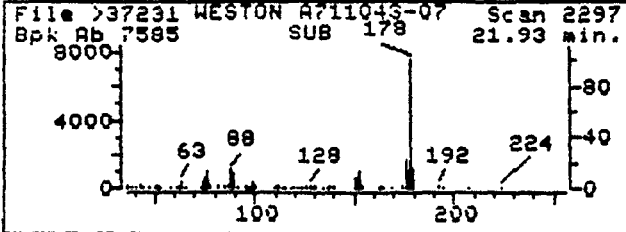
AR103058

V 376

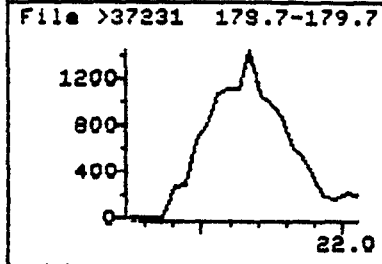
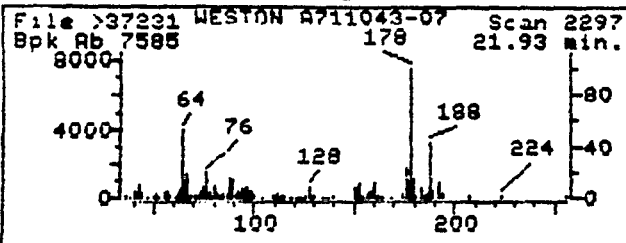
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



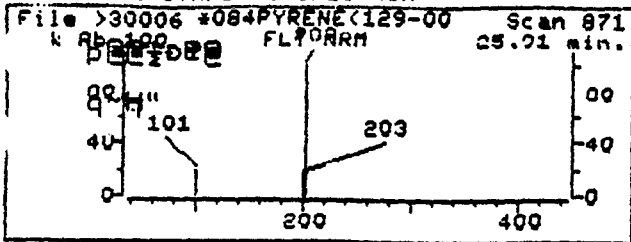
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Name: WESTON A711043-07A
Misc: 35-310@10 IH=1.0 MCK 02DEC87
Quant Time: 871202 13:11
Injected at: 871202 11:55

Compound No: 97
Compound Name: PHENANTHRENE
Scan Number: 2298
Retention Time: 21.93 min.
Area: 34058
Concentration: 15.83 PPM
q-value: 97

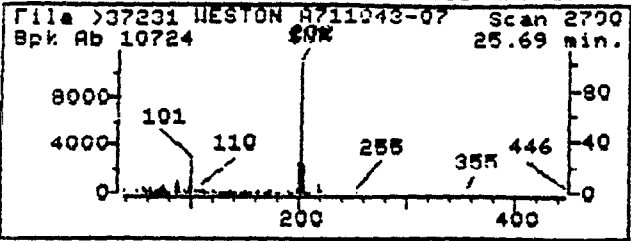
AR103059

21311

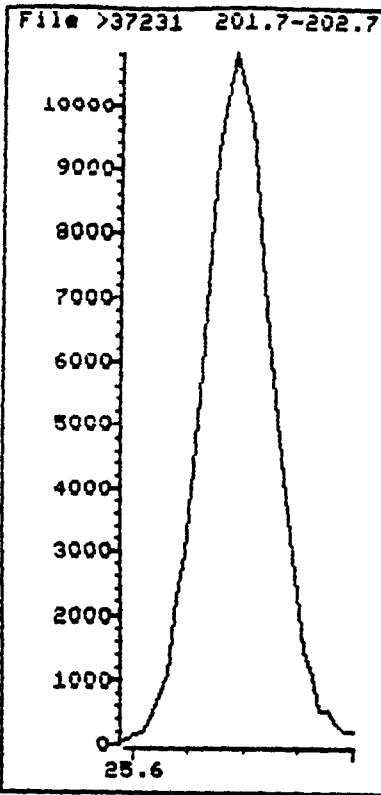
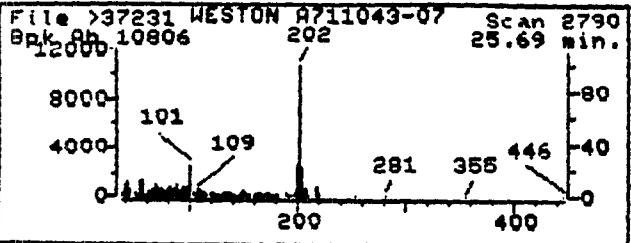
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >37231::E7
 Name: WESTON A711043-07A
 Misc: 35-310@10 IH=1.0 MCK 02DEC87
 Quant Time: 871202 13:11
 Injected at: 871202 11:55

Compound No: 103
 Compound Name: PYRENE
 Scan Number: 2790
 Retention Time: 25.69 min.
 Area: 48048
 Concentration: 21.62 PPM
 q-value: 100

AR103060

V 10

SAMPLE WORKSHEET FOR SEMIVOLATILES

CONTRACT NAME Weston Laboratories
CONTRACT NUMBER 325-001-01-01
RADIANT CONTACT Rob Richardson

SAMPLE DESCRIPTION

SAMPLE NO. (SAM) A711043-07A ANALYTE(S) 8270 TCLP
 OTHER _____

SAMPLE TYPE AQUEOUS SOLID ORG LIQ SORBENT
 OTHER _____

SAMPLE IDENTIFIER 6583 COMMENTS _____

SAMPLE PREPARATION

EXTRACTION METHOD 3510 SEPFUN 3520 CONTIN 3540 SOXHLET
 3550 SONICA 3580 DILUTION
 OTHER _____

SAMPLE SIZE 10.34 gms
_____ mL

DATE EXTRACTED 11/13/87
ANALYST EE

SURROGATE SPIKING 100 uL OF _____ ug/mL SP-S-035
_____ uL OF _____ ug/mL _____

OTHER SPIKING _____ uL OF _____ ug/mL
_____ uL OF _____ ug/mL _____

EXTR. SOLVENT CH₂CL₂ OTHER _____
FINAL SOLVENT CH₂CL₂ OTHER _____

FINAL CONCENTRATE VOLUME 1.0 mL VOLUME DELIVERED 1.0 mL

CLEANUP PROCEDURE _____
VOLUME CLEANED _____ mL FINAL VOLUME _____ mL VOLUME DELIVERED _____ mL
COMMENT _____

DATE SUBMITTED 11/19/87 SUBMITTED BY KP RECEIVED BY MCS

SAMPLE ANALYSIS

FRN >37231 DATE INJECTED 2DEC87 ANALYST MCK

SAMPLE DILUTION _____ mL DILUTED TO _____ mL VOLUME INJECTED _____

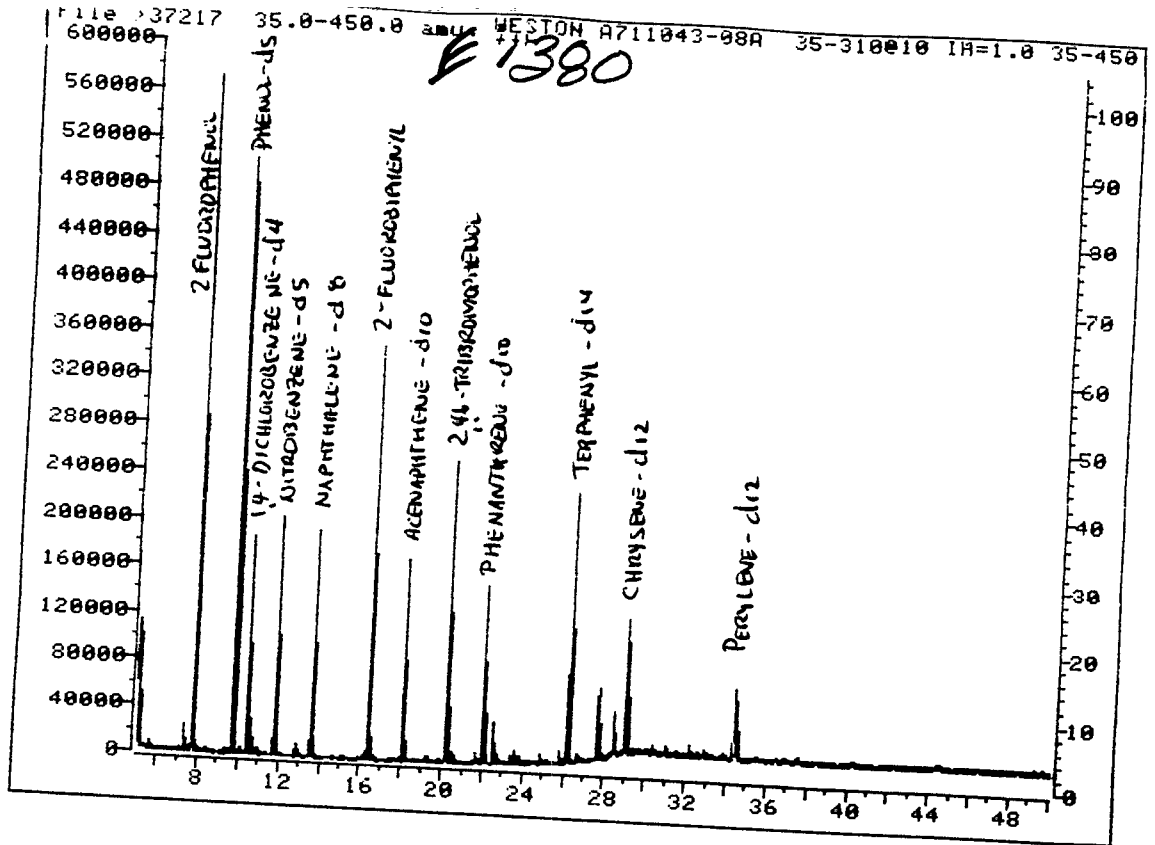
INTERNAL STANDARD _____

EXTRACTS CIS, ug/mL 50 OTHER _____

COMMENT: _____

Cppm = An x ug/mL IS = mL Extract x DF
_____ RF _____ mL sample size

AR103061



12-1-87 10:55

AR103063