161495

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.

CORPORATE HEADQUARTERS: 3235 OMNI DRIVE CINCINNATI, OHIO 45245 (513) 752-2

June 29, 1990

ROY F. WESTON, INC.
ATTN: Ms. Marian Murphy
53 Haddonfield Road
Suite 306
Cherry Hill, New Jersey 08002

Dear Ms. Murphy:

Please find enclosed the results of analysis for the 30 samples received on June 18, 1990.

If you have any further questions, please feel free to contact me at (513) 752-2950.

Sincerely,

Mona Risk

Mona Risk, Ph.D.
Director of Chemistry

MR:jw

Enclosures

AR100205

OTHER LABORATORIES: 2514 Regency Rd. Lexington, KY 40503 | P.O. Box 12199 Research Triangle PK, NC 27709 | 1075 South 13th St. Birmingham, AL 35205

OTHER OFFICES: Alexandria, VA. | Denver, CO | Philadelphia, PA

AR100209

NARRATIVE FOR SEMI-VOLATILE

The samples were extracted and analyzed on 6/26-27/90. The four of them were very dirty. They were filtered and diluted. All four samples showed semi-volatiles present, but the surrogate recoveries were low. The extraction and analysis were repeated using more intensive clean-up. The surrogate recoveries were acceptable. The chromatograms were cleaner, but the semi-volatile compounds detected were at a much lower concentration. Probably, some lost occured during the intensive clean-up. The results reported here are those of the first analysis (dirty samples). We are also reporting the surrogates recoveries of both analysis. One method blank was analyzed and reported. The BNA package includes the DFTPP tune fill, the calibration check report, and the MS/MSD report for the analysis done on sample S28.

NARRATIVE FOR PCB

Four blanks were analyzed. The recovery of the surrogate (dibutylchlorendate) is reported for the four blanks.

The same surrogate was added on each sample, but since each sample was found to contain PCB-1260, the recovery of the surrogate could not be reported for the samples: one of the peaks of PCB-1260 (tr = 23-25 minutes) interferes with the surrogate peak.

A second column confirmation analysis was done on all the samples.

Two MS/MSD done on S24, two MS/MSD done on S30.

NVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 3
Curtis Bldg., 6th & Wain
Philadelphia, Pennsylvania

CHAIN OF CUSTODY RECORD

PROJ. NO.: 3211
PROJECT NAME: Shaffer Equipment Site
SAMPLERS: (Signature) P. McCarty; Lloyd Greenwood; C. Fellman

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	8 oz glass jars							REMARKS
516	6/14/90	1607		✓	G2-7	1	1							PCB Analysis
517		1645		✓	G1-1	1	1							PCB Analysis
518		1647		✓	G1-2	1	1							PCB Analysis
519		1645		✓	G1-5	1	1							BNA/PCB Analysis
520		1647		✓	G1-6	1	1							PCB Analysis
521		1650		✓	G1-7	1	1							PCB Analysis
522		1657		✓	G1-10	1	1							PCB Analysis
523		1657		✓	G1-11	1	1							PCB Analysis
524		1655		✓	G114	1	1							PCB Analysis
325		1630		✓	Area 1 (junk pile)	1	1							BNA/PCB Analysis
526		1635		✓	Area 1 (property edge)	1	1							BNA/PCB Analysis
527		1640		✓	Area 1 (Repeat trench)	1	1							PCB Analysis
528		1642		✓	Area 1 (along building)	1	1							BNA/PCB Analysis
529		1645		✓	Area 1 (Northend/bld)	1	1							PCB Analysis
530	↓	1646		✓	Area 1 (below transformer)	1	1							PCB Analysis

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Patricia A. Whitely	6-15-90 / 1020				

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)

Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks
		Becky Bowe	8/90 9:30	

Shipment: Copy to Coordinator Field File.

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGIO
Curtis Bldg., 6th & Walnut
Philadelphia, Pennsylvania

CHAIN OF CUSTODY RECORD

PROJ. NO.: 3211
PROJECT NAME: Shaffer Equipment Site
SAMPLERS: (Signature) P. Metcay; Maud Greenwald; C. Allen

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	8oz glass jar							REMARKS
501	6/14/90	1355		✓	Area 2	1	1							PCB Analysis
502		1405		✓	Area 2	1	1							
503		1440		✓	G-31	1	1							
504		1445		✓	G-34	1	1							
505		1450		✓	G-35	1	1							
506		1455		✓	G-36	1	1							
507		1500		✓	G-37	1	1							
508		1510		✓	G-38	1	1							
509		1510		✓	G-3-9	1	1							
510		1605		✓	G2-1	1	1							
511		1605		✓	G2-2	1	1							
512		1610		✓	G2-3	1	1							
513		1610		✓	G2-4	1	1							
514		1610		✓	G2-5	1	1							
515	✓	1612		✓	G2-6	1	1							✓

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Patricia Metcay	6/15/90 1020				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
		Becky Barba	6/18/90 9:30		

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
SEMI-VOLATILE ORGANIC ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-19-90	DATE ANALYZED:	06-26-90
SAMPLE TYPE:	Soil Sample	SAMPLE WEIGHT	10.00
ANALYST:	K. Nusekabel	DILUTION FACTOR:	1.00
CUSTOMER SAMPLE NO.:	S19	EHRT SAMPLE NO.:	25421
LAB NOTEBOOK NO.:	143, Pg. 9	METHOD NO.:	EPA 8270

	COMPOUNDS		RESULT mg/kg
1.	Phenol	<	0.50
2.	Bis(2-Chloroethyl)Ether	<	0.50
3.	2-Chlorophenol	<	0.50
4.	1,3-Dichlorobenzene	<	1.00
5.	1,4-Dichlorobenzene	<	1.00
6.	Benzyl Alcohol	<	0.50
7.	1,2-Dichlorobenzene	<	1.00
8.	2-Methylphenol	<	0.50
9.	Bis-(2-Chloroisopropyl)Ether	<	1.00
10.	4-Methylphenol	<	0.50
11.	N-Nitroso-Di-n-Propylamine	<	1.00
12.	Hexachloroethane	<	1.00
13.	Nitrobenzene	<	0.50
14.	Isophorone	<	0.50
15.	2-Nitrophenol	<	1.00
16.	2,4-Dimethylphenol	<	0.50
17.	Benzoic Acid	<	5.00
18.	Bis(2-Chloroethoxy)Methane	<	0.50
19.	2,4-Dichlorophenol	<	1.00
20.	1,2,4-Trichlorobenzene		1.08
21.	Naphthalene		1.44
22.	4-Chloroaniline	<	3.00
23.	Hexachlorobutadiene	<	3.00
24.	4-Chloro-3-Methylphenol	<	0.50
25.	2-Methylnaphthalene		2.31
26.	Hexachlorocyclopentadiene	<	3.00
27.	2,4,6-Trichlorophenol	<	1.00
28.	2,5,6-Trichlorophenol	<	1.00

CUSTOMER SAMPLE NO.: S19 EHRT SAMPLE NO.: 25421

29.	2-Chloronaphthalene	<	0.50
30.	2-Nitroaniline	<	3.00
31.	Dimethylphthalate	<	0.50
32.	Acenaphthylene	<	0.50
33.	2,6-Dinitrotoluene	<	1.00
34.	3-Nitroaniline	<	3.00
35.	Acenaphthene	<	0.50
36.	2,4-Dinitrophenol	<	10.00
37.	4-Nitrophenol	<	5.00
38.	Dibenzofuran	<	1.00
39.	2,4-Dinitrotoluene	<	1.00
40.	Diethylphthalate	<	0.50
41.	4-Chlorophenyl-Phenylether	<	1.00
42.	Fluorene	<	0.50
43.	4-Nitroaniline	<	5.00
44.	4,6-Dinitro-2-Methylphenol	<	5.00
45.	N-Nitrosodiphenylamine	<	1.00
46.	4-Bromophenyl-Phenylether	<	1.00
47.	Hexachlorobenzene	<	1.00
48.	Pentachlorophenol	<	5.00
49.	Phenanthrene		1.21
50.	Anthracene	<	0.50
51.	Di-n-Butylphthalate		0.85
52.	Fluoranthene	<	0.50
53.	Pyrene	<	0.30
54.	Butylbenzylphthalate	<	0.30
55.	3,3'-Dichlorobenzidine	<	5.00
56.	Benzo(a)Anthracene	<	0.50
57.	Chrysene		0.52
58.	Bis(2-Ethylhexyl)phthalate	<	0.30
59.	Di-n-Octylphthalate	<	0.50
60.	Benzo(b)Fluoranthene	<	2.00
61.	Benzo(k)Fluoranthene	<	2.00
62.	Benzo(a)Pyrene	<	1.00
63.	Indeno(1,2,3-cd)Pyrene	<	2.00
64.	Dibenzo(a,h)Anthracene	<	2.00
65.	Benzo(g,h,i)Perylene	<	2.00

SURROGATE COMPOUND	PERCENT RECOVERY	DUPLICATE PERCENT RECOVERY
Nitrobenzene-d5	92.80%	45.90%
2-Fluorobiphenyl	116.90%	48.70%
Terphenyl-d14	90.50%	70.80%
Phenol-d5	53.20%	41.90%
2-Fluorophenol	62.70%	37.80%
2,4,6-Tribromophenol	113.20%	34.30%

CUSTOMER SAMPLE NO.: S19 EHRT SAMPLE NO.: 25421

COMPUTER SEARCH

Benzene, Ethyl - Approx. 0.90 mg/kg

Benzene, 1,2-Dimethyl - Approx. 3.0 mg/kg

Nonane - Approx. 0.80 mg/kg

Benzene, 1-Ethyl-2-Methyl - Approx. 1.30 mg/kg

Benzene, (1-Methylethyl) - Approx. 1.0 mg/kg

Decane - Approx. 1.40 mg/kg

Decane, 4-Methyl - Approx. 0.90 mg/kg

Benzene, 1-Methyl-2-Propyl - Approx. 0.90 mg/kg

Undecane - Approx. 2.60 mg/kg

Undecane, 2,6-Dimethyl - Approx. 1.0 mg/kg

Octane, 2,3,7-Trimethyl - Approx. 1.2 mg/kg

Naphthalene, 1-Methyl - Approx. 0.90 mg/kg

Tridecane, 2-Methyl - Approx. 0.80 mg/kg

Tetradecane - Approx. 5.10 mg/kg

Naphthalene, 1,3-Dimethyl - Approx. 1.0 mg/kg

Naphthalene, 1,8-Dimethyl - Approx. 0.90 mg/kg

Dodecane, 2,6,10-Trimethyl - Approx. 1.60 mg/kg

Heptadecane - Approx. 1.0 mg/kg

AR100215

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
SEMI-VOLATILE ORGANIC ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-19-90	DATE ANALYZED:	06-27-90
SAMPLE TYPE:	Soil Sample	SAMPLE WEIGHT	10.00
ANALYST:	K. Nusekabel	DILUTION FACTOR:	5.00
CUSTOMER SAMPLE NO.:	S25	EHRT SAMPLE NO.:	25427
LAB NOTEBOOK NO.:	143, Pg. 11	METHOD NO.:	EPA 8270

	COMPOUNDS		RESULT mg/kg
1.	Phenol	<	2.50
2.	Bis(2-Chloroethyl)Ether	<	2.50
3.	2-Chlorophenol	<	2.50
4.	1,3-Dichlorobenzene	<	5.00
5.	1,4-Dichlorobenzene	<	5.00
6.	Benzyl Alcohol	<	2.50
7.	1,2-Dichlorobenzene	<	5.00
8.	2-Methylphenol	<	2.50
9.	Bis-(2-Chloroisopropyl)Ether	<	5.00
10.	4-Methylphenol	<	2.50
11.	N-Nitroso-Di-n-Propylamine	<	5.00
12.	Hexachloroethane	<	5.00
13.	Nitrobenzene	<	2.50
14.	Isophorone	<	2.50
15.	2-Nitrophenol	<	5.00
16.	2,4-Dimethylphenol	<	2.50
17.	Benzoic Acid	<	25.00
18.	Bis(2-Chloroethoxy)Methane	<	2.50
19.	2,4-Dichlorophenol	<	5.00
20.	1,2,4-Trichlorobenzene	<	5.00
21.	Naphthalene	<	1.50
22.	4-Chloroaniline	<	15.00
23.	Hexachlorobutadiene	<	15.00
24.	4-Chloro-3-Methylphenol	<	2.50
25.	2-Methylnaphthalene	<	1.50
26.	Hexachlorocyclopentadiene	<	15.00
27.	2,4,6-Trichlorophenol	<	5.00
28.	2,5,6-Trichlorophenol	<	5.00

CUSTOMER SAMPLE NO.: S25 EHRT SAMPLE NO.: 25427

29.	2-Chloronaphthalene	<	2.50
30.	2-Nitroaniline	<	15.00
31.	Dimethylphthalate	<	2.50
32.	Acenaphthylene	<	2.50
33.	2,6-Dinitrotoluene	<	5.00
34.	3-Nitroaniline	<	15.00
35.	Acenaphthene	<	2.50
36.	2,4-Dinitrophenol	<	50.00
37.	4-Nitrophenol	<	25.00
38.	Dibenzofuran	<	5.00
39.	2,4-Dinitrotoluene	<	5.00
40.	Diethylphthalate	<	2.50
41.	4-Chlorophenyl-Phenylether	<	5.00
42.	Fluorene	<	2.50
43.	4-Nitroaniline	<	25.00
44.	4,6-Dinitro-2-Methylphenol	<	25.00
45.	N-Nitrosodiphenylamine	<	5.00
46.	4-Bromophenyl-Phenylether	<	5.00
47.	Hexachlorobenzene	<	5.00
48.	Pentachlorophenol	<	25.00
49.	Phenanthrene		0.91
50.	Anthracene	<	2.50
51.	Di-n-Butylphthalate	<	1.50
52.	Fluoranthene		1.23
53.	Pyrene		0.57
54.	Butylbenzylphthalate	<	1.50
55.	3,3'-Dichlorobenzidine	<	25.00
56.	Benzo(a)Anthracene	<	2.50
57.	Chrysene	<	2.50
58.	Bis(2-Ethylhexyl)phthalate	<	1.50
59.	Di-n-Octylphthalate	<	2.50
60.	Benzo(b)Fluoranthene	<	10.00
61.	Benzo(k)Fluoranthene	<	10.00
62.	Benzo(a)Pyrene	<	5.00
63.	Indeno(1,2,3-cd)Pyrene	<	10.00
64.	Dibenzo(a,h)Anthracene	<	10.00
65.	Benzo(g,h,i)Perylene	<	10.00

SURROGATE COMPOUND	PERCENT RECOVERY	DUPLICATE PERCENT RECOVERY
Nitrobenzene-d5	30.30%	64.50%
2-Fluorobiphenyl	54.50%	87.90%
Terphenyl-d14	32.80%	110.00%
Phenol-d5	34.00%	68.60%
2-Fluorophenol	36.40%	65.80%
2,4,6-Tribromophenol	——%*	43.10%

Note: This surrogate was diluted out.

AR100217

AR100217

CUSTOMER SAMPLE NO.: S25 EHRT SAMPLE NO.: 25427

COMPUTER SEARCH

Hexadecane, 2,6,10,14-Tetramethyl - Approx. 0.30 mg/kg

Pentadecane, 2,6,10,14-Tetramethyl - Approx. 1.0 mg/kg

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
SEMI-VOLATILE ORGANIC ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-19-90	DATE ANALYZED:	06-26-90
SAMPLE TYPE:	Soil Sample	SAMPLE WEIGHT	10.00
ANALYST:	K. Nusekabel	DILUTION FACTOR:	10.00
CUSTOMER SAMPLE NO.:	S26	EHRT SAMPLE NO.:	25428
LAB NOTEBOOK NO.:	143, Pg. 9	METHOD NO.:	EPA 8270

	COMPOUNDS		RESULT mg/kg
1.	Phenol	<	5.00
2.	Bis(2-Chloroethyl)Ether	<	5.00
3.	2-Chlorophenol	<	5.00
4.	1,3-Dichlorobenzene	<	10.00
5.	1,4-Dichlorobenzene		11.90
6.	Benzyl Alcohol	<	5.00
7.	1,2-Dichlorobenzene		7.43
8.	2-Methylphenol	<	5.00
9.	Bis-(2-Chloroisopropyl)Ether	<	10.00
10.	4-Methylphenol	<	5.00
11.	N-Nitroso-Di-n-Propylamine	<	10.00
12.	Hexachloroethane	<	10.00
13.	Nitrobenzene	<	5.00
14.	Isophorone	<	5.00
15.	2-Nitrophenol	<	10.00
16.	2,4-Dimethylphenol	<	5.00
17.	Benzoic Acid	<	50.00
18.	Bis(2-Chloroethoxy)Methane	<	5.00
19.	2,4-Dichlorophenol	<	10.00
20.	1,2,4-Trichlorobenzene		314.53
21.	Naphthalene		1.36
22.	4-Chloroaniline	<	30.00
23.	Hexachlorobutadiene	<	30.00
24.	4-Chloro-3-Methylphenol	<	5.00
25.	2-Methylnaphthalene		3.47
26.	Hexachlorocyclopentadiene	<	30.00
27.	2,4,6-Trichlorophenol	<	10.00
28.	2,5,6-Trichlorophenol	<	10.00

CUSTOMER SAMPLE NO.: S26 EHRT SAMPLE NO.: 25428

29.	2-Chloronaphthalene	<	5.00
30.	2-Nitroaniline	<	30.00
31.	Dimethylphthalate	<	5.00
32.	Acenaphthylene	<	5.00
33.	2,6-Dinitrotoluene	<	10.00
34.	3-Nitroaniline	<	30.00
35.	Acenaphthene	<	5.00
36.	2,4-Dinitrophenol	<	100.00
37.	4-Nitrophenol	<	50.00
38.	Dibenzofuran	<	10.00
39.	2,4-Dinitrotoluene	<	10.00
40.	Diethylphthalate	<	5.00
41.	4-Chlorophenyl-Phenylether	<	10.00
42.	Fluorene		0.50
43.	4-Nitroaniline	<	50.00
44.	4,6-Dinitro-2-Methylphenol	<	50.00
45.	N-Nitrosodiphenylamine	<	10.00
46.	4-Bromophenyl-Phenylether	<	10.00
47.	Hexachlorobenzene	<	10.00
48.	Pentachlorophenol	<	50.00
49.	Phenanthrene	<	5.00
50.	Anthracene	<	5.00
51.	Di-n-Butylphthalate	<	3.00
52.	Fluoranthene	<	5.00
53.	Pyrene	<	3.00
54.	Butylbenzylphthalate	<	3.00
55.	3,3'-Dichlorobenzidine	<	50.00
56.	Benzo(a)Anthracene	<	5.00
57.	Chrysene	<	5.00
58.	Bis(2-Ethylhexyl)phthalate	<	3.00
59.	Di-n-Octylphthalate	<	5.00
60.	Benzo(b)Fluoranthene	<	20.00
61.	Benzo(k)Fluoranthene	<	20.00
62.	Benzo(a)Pyrene	<	10.00
63.	Indeno(1,2,3-cd)Pyrene	<	20.00
64.	Dibenzo(a,h)Anthracene	<	20.00
65.	Benzo(g,h,i)Perylene	<	20.00

SURROGATE COMPOUND	PERCENT RECOVERY	DUPLICATE PERCENT RECOVERY
Nitrobenzene-d5	64.80%	41.10%
2-Fluorobiphenyl	116.30%	48.90%
Terphenyl-d14	104.20%	101.80%
Phenol-d5	47.50%	36.50%
2-Fluorophenol	41.40%	33.10%
2,4,6-Tribromophenol	——%*	——%*

Note: This surrogate was diluted out.

AR100220

CUSTOMER SAMPLE NO.: S26 EHRT SAMPLE NO.: 25428

COMPUTER SEARCH

Benzene, 1,2,3-Trichloro - Approx. 23 mg/kg

Benzene, 1,2,4,5-Tetrachloro - Approx. 17 mg/kg

Benzene, 1,2,3,4-Tetrachloro - Approx. 40 mg/kg

Benzene, 1,2,3,5-Tetrachloro - Approx. 4.0 mg/kg

Benzene, Pentachloro - Approx. 9.0 mg/kg

1,1'-Biphenyl, 2,2'3,4',5'-Pentachloro - Approx. 5.0 mg/kg

1,1'-Biphenyl, 2,2'3,3',6,6'-Hexachloro - Approx. 2.0 mg/kg

1,1-Biphenyl, 2,2',3,3',4,6'-Hexachloro - Approx. 4.0 mg/kg

1,1'-Biphenyl, 2,2',3,5,5',6-Hexachloro - Approx. 2.0 mg/kg

1,1'-Biphenyl, 2,2',3,3',5,6'-Hexachloro - Approx. 9.0 mg/kg

1,1'-Biphenyl, 2,2',4,4',5,5'-Hexachloro - Approx. 9.0 mg/kg

1,1'-Biphenyl, 2,2',3,3',4,4'-Hexachloro - Approx. 2.0 mg/kg

1,1'-Biphenyl, 2,2',3,4,4',5'-Hexachloro - Approx. 3.0 mg/kg

1,1'-Biphenyl, 2,2',3,3',4,4',5'-Heptachloro - Approx. 2.0 mg/kg

1,1'-Biphenyl, Hexachloro - Approx. 7.0 mg/kg

1,1',-Biphenyl, 2,2',3,4,4',5',6-Heptachloro - Approx. 5.0 mg/kg

1,1'-Biphenyl, 2,2',3,4,4',5,5'-Heptachloro - Approx. 2.0 mg/kg

1,1'-Biphenyl, 2,2'3,4',5,5',6-Heptachloro - Approx. 4.0 mg/kg

Aroclor-1260 - Approx. 7.0 mg/kg

1,1'-Biphenyl, 2,2',3,4,4',5,5'-Heptachloro - Approx. 3.0 mg/kg

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
SEMI-VOLATILE ORGANIC ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-19-90	DATE ANALYZED:	06-26-90
SAMPLE TYPE:	Soil Sample	SAMPLE WEIGHT	10.00
ANALYST:	K. Nusekabel	DILUTION FACTOR:	1.00
CUSTOMER SAMPLE NO.:	S28	EHRT SAMPLE NO.:	25430
LAB NOTEBOOK NO.:	143, Pg. 11	METHOD NO.:	EPA 8270

	COMPOUNDS		RESULT mg/kg
1.	Phenol	<	0.50
2.	Bis(2-Chloroethyl)Ether	<	0.50
3.	2-Chlorophenol	<	0.50
4.	1,3-Dichlorobenzene	<	1.00
5.	1,4-Dichlorobenzene	<	1.00
6.	Benzyl Alcohol	<	0.50
7.	1,2-Dichlorobenzene	<	1.00
8.	2-Methylphenol	<	0.50
9.	Bis-(2-Chloroisopropyl)Ether	<	1.00
10.	4-Methylphenol	<	0.50
11.	N-Nitroso-Di-n-Propylamine	<	1.00
12.	Hexachloroethane	<	1.00
13.	Nitrobenzene	<	0.50
14.	Isophorone	<	0.50
15.	2-Nitrophenol	<	1.00
16.	2,4-Dimethylphenol	<	0.50
17.	Benzoic Acid	<	5.00
18.	Bis(2-Chloroethoxy)Methane	<	0.50
19.	2,4-Dichlorophenol	<	1.00
20.	1,2,4-Trichlorobenzene		5.58
21.	Naphthalene		7.13
22.	4-Chloroaniline	<	3.00
23.	Hexachlorobutadiene	<	3.00
24.	4-Chloro-3-Methylphenol	<	0.50
25.	2-Methylnaphthalene		5.80
26.	Hexachlorocyclopentadiene	<	3.00
27.	2,4,6-Trichlorophenol	<	1.00
28.	2,5,6-Trichlorophenol	<	1.00

CUSTOMER SAMPLE NO.: S28 EHRT SAMPLE NO.: 25430

29.	2-Chloronaphthalene	<	0.50
30.	2-Nitroaniline	<	3.00
31.	Dimethylphthalate	<	0.50
32.	Acenaphthylene	<	0.50
33.	2,6-Dinitrotoluene	<	1.00
34.	3-Nitroaniline	<	3.00
35.	Acenaphthene	<	0.50
36.	2,4-Dinitrophenol	<	10.00
37.	4-Nitrophenol	<	5.00
38.	Dibenzofuran	<	1.00
39.	2,4-Dinitrotoluene	<	1.00
40.	Diethylphthalate	<	0.50
41.	4-Chlorophenyl-Phenylether	<	1.00
42.	Fluorene	<	0.50
43.	4-Nitroaniline	<	5.00
44.	4,6-Dinitro-2-Methylphenol	<	5.00
45.	N-Nitrosodiphenylamine	<	1.00
46.	4-Bromophenyl-Phenylether	<	1.00
47.	Hexachlorobenzene	<	1.00
48.	Pentachlorophenol	<	5.00
49.	Phenanthrene		2.00
50.	Anthracene	<	0.50
51.	Di-n-Butylphthalate		0.83
52.	Fluoranthene		0.50
53.	Pyrene		0.77
54.	Butylbenzylphthalate	<	0.30
55.	3,3'-Dichlorobenzidine	<	5.00
56.	Benzo(a)Anthracene	<	0.50
57.	Chrysene		1.07
58.	Bis(2-Ethylhexyl)phthalate		2.53
59.	Di-n-Octylphthalate	<	0.50
60.	Benzo(b)Fluoranthene	<	2.00
61.	Benzo(k)Fluoranthene	<	2.00
62.	Benzo(a)Pyrene	<	1.00
63.	Indeno(1,2,3-cd)Pyrene	<	2.00
64.	Dibenzo(a,h)Anthracene	<	2.00
65.	Benzo(g,h,i)Perylene	<	2.00

SURROGATE COMPOUND	PERCENT RECOVERY	DUPLICATE PERCENT RECOVERY
Nitrobenzene-d5	——%*	49.40%
2-Fluorobiphenyl	——%*	56.80%
Terphenyl-d14	——%*	117.50%
Phenol-d5	——%*	36.50%
2-Fluorophenol	——%*	41.00%
2,4,6-Tribromophenol	——%*	46.60%

Note: Surrogates recovery was lower than 10% due to difficult matrix. The sample was reextracted and analyzed and show the same result.

CUSTOMER SAMPLE NO.: S28 EHRT SAMPLE NO.: 25430

COMPUTER SEARCH

Benzene, 1,3-Dimethyl - Approx. 2.9 mg/kg

Benzene, 1,2-Dimethyl - Approx. 1.1 mg/kg

Nonane - Approx. 1.2 mg/kg

Benzene, 1-Ethyl-4-Methyl - Approx. 1.4 mg/kg

Benzene, 1,2,3-Trimethyl - Approx. 1.9 mg/kg

Decane - Approx. 3.4 mg/kg

Benzene, 1,3,5-Trimethyl - Approx. 1.0 mg/kg

Decane, 4-Methyl - Approx. 1.0 mg/kg

Benzene, 1-Methyl-2-Propyl - Approx. 2.0 mg/kg

Benzene, Butyl - Approx. 1.5 mg/kg

Benzene, 1-Methyl-4-(1-Methylethyl) - Approx. 1.3 mg/kg

Undecane - Approx. 6.5 mg/kg

Undecane, 2,6-Dimethyl - Approx. 1.8 mg/kg

Naphthalene, 1-Methyl - Approx. 1.3 mg/kg

Benzene, 1,2,4,5-Tetrachloro - Approx. 1.5 mg/kg

Tetradecane - Approx. 2.0 mg/kg

Naphthalene, 1,3-Dimethyl - Approx. 1.2 mg/kg

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

LAB NAME: Environmental Health Research & Testing, Inc. PROJECT NO.: 11678

CUSTOMER SAMPLE NO.: S28 EHRT SAMPLE NO.: 25430

COMPOUND	AMOUNT ADDED (ng)	SAMPLE CONC. IN EXTRACT (ug/L)	MS CONC. IN EXTRACT (ug/L)	MS% REC #	QC LIMITS REC.
Phenol	200	0.00	55.99	28.0	26-90
2-Chlorophenol	200	0.00	55.39	27.7	25-102
1,4-Dichlorobenzene	100	1.58	49.62	48.0	28-104
N-Nitroso-di-n-Propylamine	100	0.00	56.87	56.9	41-126
1,2,4-Trichlorobenzene	100	55.84	58.88	3.0*	38-107
4-Chloro-3-Methyl-Phenol	200	0.00	37.81	18.9*	26-103
Acenaphthene	100	0.00	45.68	45.7	31-137
4-Nitrophenol	200	0.00	0.00	0.0*	11-114
2,4-Dinitrotoluene	100	0.00	38.41	38.4	28-89
Pentachlorophenol	200	0.00	0.00	0.0*	17-109
Pyrene	100	0.00	53.30	53.3	35-142

COMPOUND	MSD CONC. IN EXTRACT(ug/L)	MSD% REC #	MS% REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	56.70	28.4	28.0	1.4	35	26-90
2-Chlorophenol	53.97	27.0	27.7	2.6	50	25-102
1,4-Dichlorobenzene	48.19	46.6	48.0	3.0	27	28-104
N-Nitroso-di-n-Propylamine	59.38	59.4	56.9	4.3	38	41-126
1,2,4-Trichlorobenzene	56.15	1.0	3.0	100.0	23	38-107
4-Chloro-3-Methyl-Phenol	25.35	12.7*	18.9	39.2*	33	26-103
Acenaphthene	44.04	44.0	45.7	3.8	19	31-137
4-Nitrophenol	0.00	6.0*	0.0	0.0*	50	11-114
2,4-Dinitrotoluene	26.78	26.8*	38.4	35.6	47	28-89
Pentachlorophenol	0.00	0.0*	0.0	0.0*	47	17-109
Pyrene	37.48	37.5	53.3	34.8	36	35-142

Column to be used to flag recovery and RPD values with an asterick
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 8 out of 22 outside limits

AR100225

COMMENTS:

AR100225

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
SEMI-VOLATILE ORGANIC ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-19-20	DATE ANALYZED:	06-26-90
SAMPLE TYPE:	Soil Blank	SAMPLE WEIGHT	10.00
ANALYST:	K. Nusekabel	DILUTION FACTOR:	1.00
CUSTOMER SAMPLE NO.:	N/A	EHRT SAMPLE NO.:	N/A
LAB NOTEBOOK NO.:	143, Pg. 9	METHOD NO.:	EPA 8270

	COMPOUNDS		RESULT mg/kg
1.	Phenol	<	0.50
2.	Bis(2-Chloroethyl)Ether	<	0.50
3.	2-Chlorophenol	<	0.50
4.	1,3-Dichlorobenzene	<	1.00
5.	1,4-Dichlorobenzene	<	1.00
6.	Benzyl Alcohol	<	0.50
7.	1,2-Dichlorobenzene	<	1.00
8.	2-Methylphenol	<	0.50
9.	Bis-(2-Chloroisopropyl)Ether	<	1.00
10.	4-Methylphenol	<	0.50
11.	N-Nitroso-Di-n-Propylamine	<	1.00
12.	Hexachloroethane	<	1.00
13.	Nitrobenzene	<	0.50
14.	Isophorone	<	0.50
15.	2-Nitrophenol	<	1.00
16.	2,4-Dimethylphenol	<	0.50
17.	Benzoic Acid	<	5.00
18.	Bis(2-Chloroethoxy)Methane	<	0.50
19.	2,4-Dichlorophenol	<	1.00
20.	1,2,4-Trichlorobenzene	<	1.00
21.	Naphthalene	<	0.30
22.	4-Chloroaniline	<	3.00
23.	Hexachlorobutadiene	<	3.00
24.	4-Chloro-3-Methylphenol	<	0.50
25.	2-Methylnaphthalene	<	0.30
26.	Hexachlorocyclopentadiene	<	3.00
27.	2,4,6-Trichlorophenol	<	1.00
28.	2,5,6-Trichlorophenol	<	1.00

CUSTOMER SAMPLE NO.: N/A EHRT SAMPLE NO.: N/A

29.	2-Chloronaphthalene	<	0.50
30.	2-Nitroaniline	<	3.00
31.	Dimethylphthalate	<	0.50
32.	Acenaphthylene	<	0.50
33.	2,6-Dinitrotoluene	<	1.00
34.	3-Nitroaniline	<	3.00
35.	Acenaphthene	<	0.50
36.	2,4-Dinitrophenol	<	10.00
37.	4-Nitrophenol	<	5.00
38.	Dibenzofuran	<	1.00
39.	2,4-Dinitrotoluene	<	1.00
40.	Diethylphthalate	<	0.50
41.	4-Chlorophenyl-Phenylether	<	1.00
42.	Fluorene	<	0.50
43.	4-Nitroaniline	<	5.00
44.	4,6-Dinitro-2-Methylphenol	<	5.00
45.	N-Nitrosodiphenylamine	<	1.00
46.	4-Bromophenyl-Phenylether	<	1.00
47.	Hexachlorobenzene	<	1.00
48.	Pentachlorophenol	<	5.00
49.	Phenanthrene	<	0.50
50.	Anthracene	<	0.50
51.	Di-n-Butylphthalate	<	0.30
52.	Fluoranthene	<	0.50
53.	Pyrene	<	0.30
54.	Butylbenzylphthalate	<	0.30
55.	3,3'-Dichlorobenzidine	<	5.00
56.	Benzo(a)Anthracene	<	0.50
57.	Chrysene	<	0.50
58.	Bis(2-Ethylhexyl)phthalate	<	0.30
59.	Di-n-Octylphthalate	<	0.50
60.	Benzo(b)Fluoranthene	<	2.00
61.	Benzo(k)Fluoranthene	<	2.00
62.	Benzo(a)Pyrene	<	1.00
63.	Indeno(1,2,3-cd)Pyrene	<	2.00
64.	Dibenzo(a,h)Anthracene	<	2.00
65.	Benzo(g,h,i)Perylene	<	2.00

SURROGATE COMPOUND	PERCENT RECOVERY
Nitrobenzene-d5	46.10%
2-Fluorobiphenyl	47.70%
Terphenyl-d14	69.70%
Phenol-d5	38.60%
2-Fluorophenol	34.40%
2,4,6-Tribromophenol	38.20%

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-19-90	DATE ANALYZED:	06-22-90
SAMPLE TYPE:	Soil Sample	SAMPLE WEIGHT:	1.01
ANALYST:	M. Cooper	DILUTION FACTOR:	1.00
CUSTOMER SAMPLE NO.:	S01	EHRT SAMPLE NO.:	25403
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

	COMPOUNDS		RESULT ug/kg
1.	Aroclor-1016	<	617.65
2.	Aroclor-1221	<	617.65
3.	Aroclor-1232	<	617.65
4.	Aroclor-1242	<	617.65
5.	Aroclor-1248	<	617.65
6.	Aroclor-1254	<	617.65
7.	Aroclor-1260		8732.83

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-19-90	DATE ANALYZED:	06-20-90
SAMPLE TYPE:	Soil Sample	SAMPLE WEIGHT:	1.05
ANALYST:	M. Cooper	DILUTION FACTOR:	1.00
CUSTOMER SAMPLE NO.:	S02	EHRT SAMPLE NO.:	25404
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

	COMPOUNDS		RESULT ug/kg
1.	Aroclor-1016	<	596.83
2.	Aroclor-1221	<	596.83
3.	Aroclor-1232	<	596.83
4.	Aroclor-1242	<	596.83
5.	Aroclor-1248	<	596.83
6.	Aroclor-1254	<	596.83
7.	Aroclor-1260		4020.96

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-19-90	DATE ANALYZED:	06-22-90
SAMPLE TYPE:	Soil Sample	SAMPLE WEIGHT:	1.08
ANALYST:	M. Cooper	DILUTION FACTOR:	1.00
CUSTOMER SAMPLE NO.:	S03	EHRT SAMPLE NO.:	25405
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

	COMPOUNDS		RESULT ug/kg
1.	Aroclor-1016	<	577.85
2.	Aroclor-1221	<	577.85
3.	Aroclor-1232	<	577.85
4.	Aroclor-1242	<	577.85
5.	Aroclor-1248	<	577.85
6.	Aroclor-1254	<	577.85
7.	Aroclor-1260	<	577.85 *

*Aroclor-1260 detected, but is below practical quantitation limits.

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-19-90	DATE ANALYZED:	06-22-90
SAMPLE TYPE:	Soil Sample	SAMPLE WEIGHT:	1.08
ANALYST:	M. Cooper	DILUTION FACTOR:	1.00
CUSTOMER SAMPLE NO.:	S04	EHRT SAMPLE NO.:	25406
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

	COMPOUNDS		RESULT ug/kg
1.	Aroclor-1016	<	576.73
2.	Aroclor-1221	<	576.73
3.	Aroclor-1232	<	576.73
4.	Aroclor-1242	<	576.73
5.	Aroclor-1248	<	576.73
6.	Aroclor-1254	<	576.73
7.	Aroclor-1260		1455.66

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-19-90	DATE ANALYZED:	06-20-90
SAMPLE TYPE:	Soil Sample	SAMPLE WEIGHT:	1.13
ANALYST:	M. Cooper	DILUTION FACTOR:	1.00
CUSTOMER SAMPLE NO.:	S05	EHRT SAMPLE NO.:	25407
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

	COMPOUNDS		RESULT ug/kg
1.	Aroclor-1016	<	553.73
2.	Aroclor-1221	<	553.73
3.	Aroclor-1232	<	553.73
4.	Aroclor-1242	<	553.73
5.	Aroclor-1248	<	553.73
6.	Aroclor-1254	<	553.73
7.	Aroclor-1260		895.28

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-19-90	DATE ANALYZED:	06-22-90
SAMPLE TYPE:	Soil Sample	SAMPLE WEIGHT:	1.01
ANALYST:	M. Cooper	DILUTION FACTOR:	1.00
CUSTOMER SAMPLE NO.:	S06	EHRT SAMPLE NO.:	25408
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

COMPOUNDS	RESULT ug/kg
1. Aroclor-1016	< 621.46
2. Aroclor-1221	< 621.46
3. Aroclor-1232	< 621.46
4. Aroclor-1242	< 621.46
5. Aroclor-1248	< 621.46
6. Aroclor-1254	< 621.46
7. Aroclor-1260	< 621.46

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-19-90	DATE ANALYZED:	06-22-90
SAMPLE TYPE:	Soil Sample	SAMPLE WEIGHT:	1.02
ANALYST:	M. Cooper	DILUTION FACTOR:	1.00
CUSTOMER SAMPLE NO.:	S07	EHRT SAMPLE NO.:	25409
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

	COMPOUNDS		RESULT ug/kg
1.	Aroclor-1016	<	612.81
2.	Aroclor-1221	<	612.81
3.	Aroclor-1232	<	612.81
4.	Aroclor-1242	<	612.81
5.	Aroclor-1248	<	612.81
6.	Aroclor-1254	<	612.81
7.	Aroclor-1260		1686.44

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-19-90	DATE ANALYZED:	06-22-90
SAMPLE TYPE:	Soil Sample	SAMPLE WEIGHT:	1.03
ANALYST:	M. Cooper	DILUTION FACTOR:	1.00
CUSTOMER SAMPLE NO.:	S08	EHRT SAMPLE NO.:	25410
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

	COMPOUNDS	RESULT ug/kg
1.	Aroclor-1016	< 608.87
2.	Aroclor-1221	< 608.87
3.	Aroclor-1232	< 608.87
4.	Aroclor-1242	< 608.87
5.	Aroclor-1248	< 608.87
6.	Aroclor-1254	< 608.87
7.	Aroclor-1260	2086.46

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-19-90	DATE ANALYZED:	06-20-90
SAMPLE TYPE:	Soil Sample	SAMPLE WEIGHT:	1.17
ANALYST:	M. Cooper	DILUTION FACTOR:	1.00
CUSTOMER SAMPLE NO.:	S09	EHRT SAMPLE NO.:	25411
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

	COMPOUNDS		RESULT ug/kg
1.	Aroclor-1016	<	536.48
2.	Aroclor-1221	<	536.48
3.	Aroclor-1232	<	536.48
4.	Aroclor-1242	<	536.48
5.	Aroclor-1248	<	536.48
6.	Aroclor-1254	<	536.48
7.	Aroclor-1260	<	536.48 *

*Aroclor-1260 detected, but is below practical quantitation limits.

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-19-90	DATE ANALYZED:	06-20-90
SAMPLE TYPE:	Soil Sample	SAMPLE WEIGHT:	1.06
ANALYST:	M. Cooper	DILUTION FACTOR:	50.00
CUSTOMER SAMPLE NO.:	S10	EHRT SAMPLE NO.:	25412
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

	COMPOUNDS	RESULT ug/kg
1.	Aroclor-1016	< 29400.70
2.	Aroclor-1221	< 29400.70
3.	Aroclor-1232	< 29400.70
4.	Aroclor-1242	< 29400.70
5.	Aroclor-1248	< 29400.70
6.	Aroclor-1254	< 29400.70
7.	Aroclor-1260	297182.24

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-19-90	DATE ANALYZED:	06-20-90
SAMPLE TYPE:	Soil Sample	SAMPLE WEIGHT:	1.01
ANALYST:	M. Cooper	DILUTION FACTOR:	500.00
CUSTOMER SAMPLE NO.:	S11	EHRT SAMPLE NO.:	25413
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

	COMPOUNDS	RESULT ug/kg
1.	Aroclor-1016	< 310728.85
2.	Aroclor-1221	< 310728.85
3.	Aroclor-1232	< 310728.85
4.	Aroclor-1242	< 310728.85
5.	Aroclor-1248	< 310728.85
6.	Aroclor-1254	< 310728.85
7.	Aroclor-1260	4318509.50

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-19-90	DATE ANALYZED:	06-20-90
SAMPLE TYPE:	Soil Sample	SAMPLE WEIGHT:	1.04
ANALYST:	M. Cooper	DILUTION FACTOR:	20.00
CUSTOMER SAMPLE NO.:	S12	EHRT SAMPLE NO.:	25414
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

	COMPOUNDS		RESULT ug/kg
1.	Aroclor-1016	<	12025.01
2.	Aroclor-1221	<	12025.01
3.	Aroclor-1232	<	12025.01
4.	Aroclor-1242	<	12025.01
5.	Aroclor-1248	<	12025.01
6.	Aroclor-1254	<	12025.01
7.	Aroclor-1260		148042.33

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-19-90	DATE ANALYZED:	06-20-90
SAMPLE TYPE:	Soil Sample	SAMPLE WEIGHT:	1.08
ANALYST:	M. Cooper	DILUTION FACTOR:	50.00
CUSTOMER SAMPLE NO.:	S13	EHRT SAMPLE NO.:	25415
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

	COMPOUNDS		RESULT ug/kg
1.	Aroclor-1016	<	28919.12
2.	Aroclor-1221	<	28919.12
3.	Aroclor-1232	<	28919.12
4.	Aroclor-1242	<	28919.12
5.	Aroclor-1248	<	28919.12
6.	Aroclor-1254	<	28919.12
7.	Aroclor-1260		467865.07

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-19-90	DATE ANALYZED:	06-20-90
SAMPLE TYPE:	Soil Sample	SAMPLE WEIGHT:	1.01
ANALYST:	M. Cooper	DILUTION FACTOR:	50.00
CUSTOMER SAMPLE NO.:	S14	EHRT SAMPLE NO.:	25416
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

	COMPOUNDS		RESULT ug/kg
1.	Aroclor-1016	<	31011.21
2.	Aroclor-1221	<	31011.21
3.	Aroclor-1232	<	31011.21
4.	Aroclor-1242	<	31011.21
5.	Aroclor-1248	<	31011.21
6.	Aroclor-1254	<	31011.21
7.	Aroclor-1260		164160.96

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-19-90	DATE ANALYZED:	06-22-90
SAMPLE TYPE:	Soil Sample	SAMPLE WEIGHT:	1.00
ANALYST:	M. Cooper	DILUTION FACTOR:	1000.00
CUSTOMER SAMPLE NO.:	S15	EHRT SAMPLE NO.:	25417
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

	COMPOUNDS	RESULT ug/kg
1.	Aroclor-1016	< 623441.40
2.	Aroclor-1221	< 623441.40
3.	Aroclor-1232	< 623441.40
4.	Aroclor-1242	< 623441.40
5.	Aroclor-1248	< 623441.40
6.	Aroclor-1254	< 623441.40
7.	Aroclor-1260	1297007.48

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-19-90	DATE ANALYZED:	06-20-90
SAMPLE TYPE:	Soil Sample	SAMPLE WEIGHT:	1.03
ANALYST:	M. Cooper	DILUTION FACTOR:	20.00
CUSTOMER SAMPLE NO.:	S16	EHRT SAMPLE NO.:	25418
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

	COMPOUNDS		RESULT ug/kg
1.	Aroclor-1016	<	12164.27
2.	Aroclor-1221	<	12164.27
3.	Aroclor-1232	<	12164.27
4.	Aroclor-1242	<	12164.27
5.	Aroclor-1248	<	12164.27
6.	Aroclor-1254	<	12164.27
7.	Aroclor-1260		29043.40

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-19-90	DATE ANALYZED:	06-20-90
SAMPLE TYPE:	Soil Sample	SAMPLE WEIGHT:	1.02
ANALYST:	M. Cooper	DILUTION FACTOR:	50.00
CUSTOMER SAMPLE NO.:	S17	EHRT SAMPLE NO.:	25419
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

	COMPOUNDS		RESULT ug/kg
1.	Aroclor-1016	<	30547.41
2.	Aroclor-1221	<	30547.41
3.	Aroclor-1232	<	30547.41
4.	Aroclor-1242	<	30547.41
5.	Aroclor-1248	<	30547.41
6.	Aroclor-1254	<	30547.41
7.	Aroclor-1260		347262.95

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-19-90	DATE ANALYZED:	06-20-90
SAMPLE TYPE:	Soil Sample	SAMPLE WEIGHT:	1.00
ANALYST:	M. Cooper	DILUTION FACTOR:	10.00
CUSTOMER SAMPLE NO.:	S18	EHRT SAMPLE NO.:	25420
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

	COMPOUNDS		RESULT ug/kg
1.	Aroclor-1016	<	6227.58
2.	Aroclor-1221	<	6227.58
3.	Aroclor-1232	<	6227.58
4.	Aroclor-1242	<	6227.58
5.	Aroclor-1248		35240.63
6.	Aroclor-1254	<	6227.58
7.	Aroclor-1260		79197.39

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-19-90	DATE ANALYZED:	06-20-90
SAMPLE TYPE:	Soil Sample	SAMPLE WEIGHT:	1.07
ANALYST:	M. Cooper	DILUTION FACTOR:	10.00
CUSTOMER SAMPLE NO.:	S19	EHRT SAMPLE NO.:	25421
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

	COMPOUNDS		RESULT ug/kg
1.	Aroclor-1016	<	5863.59
2.	Aroclor-1221	<	5863.59
3.	Aroclor-1232	<	5863.59
4.	Aroclor-1242	<	5863.59
5.	Aroclor-1248	<	5863.59
6.	Aroclor-1254	<	5863.59
7.	Aroclor-1260		39682.43

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-19-90	DATE ANALYZED:	06-22-90
SAMPLE TYPE:	Soil Sample	SAMPLE WEIGHT:	1.06
ANALYST:	M. Cooper	DILUTION FACTOR:	10.00
CUSTOMER SAMPLE NO.:	S20	EHRT SAMPLE NO.:	25422
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

	COMPOUNDS		RESULT ug/kg
1.	Aroclor-1016	<	5872.40
2.	Aroclor-1221	<	5872.40
3.	Aroclor-1232	<	5872.40
4.	Aroclor-1242	<	5872.40
5.	Aroclor-1248	<	5872.40
6.	Aroclor-1254	<	5872.40
7.	Aroclor-1260		74680.54

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-19-90	DATE ANALYZED:	06-20-90
SAMPLE TYPE:	Soil Sample	SAMPLE WEIGHT:	1.04
ANALYST:	M. Cooper	DILUTION FACTOR:	100.00
CUSTOMER SAMPLE NO.:	S21	EHRT SAMPLE NO.:	25423
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

	COMPOUNDS		RESULT ug/kg
1.	Aroclor-1016	<	60142.42
2.	Aroclor-1221	<	60142.42
3.	Aroclor-1232	<	60142.42
4.	Aroclor-1242	<	60142.42
5.	Aroclor-1248	<	60142.42
6.	Aroclor-1254	<	60142.42
7.	Aroclor-1260		864126.25

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-19-90	DATE ANALYZED:	06-22-90
SAMPLE TYPE:	Soil Sample	SAMPLE WEIGHT:	1.02
ANALYST:	M. Cooper	DILUTION FACTOR:	10.00
CUSTOMER SAMPLE NO.:	S22	EHRT SAMPLE NO.:	25424
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

	COMPOUNDS		RESULT ug/kg
1.	Aroclor-1016	<	6117.85
2.	Aroclor-1221	<	6117.85
3.	Aroclor-1232	<	6117.85
4.	Aroclor-1242	<	6117.85
5.	Aroclor-1248	<	6117.85
6.	Aroclor-1254	<	6117.85
7.	Aroclor-1260		50949.49

AR100249

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-19-90	DATE ANALYZED:	06-22-90
SAMPLE TYPE:	Soil Sample	SAMPLE WEIGHT:	1.07
ANALYST:	M. Cooper	DILUTION FACTOR:	10.00
CUSTOMER SAMPLE NO.:	S23	EHRT SAMPLE NO.:	25425
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

	COMPOUNDS		RESULT ug/kg
1.	Aroclor-1016	<	5816.66
2.	Aroclor-1221	<	5816.66
3.	Aroclor-1232	<	5816.66
4.	Aroclor-1242	<	5816.66
5.	Aroclor-1248	<	5816.66
6.	Aroclor-1254	<	5816.66
7.	Aroclor-1260		72119.59

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-19-90	DATE ANALYZED:	06-20-90
SAMPLE TYPE:	Soil Sample	SAMPLE WEIGHT:	1.07
ANALYST:	M. Cooper	DILUTION FACTOR:	1.00
CUSTOMER SAMPLE NO.:	S24	EHRT SAMPLE NO.:	25426
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

	COMPOUNDS		RESULT ug/kg
1.	Aroclor-1016	<	581.67
2.	Aroclor-1221	<	581.67
3.	Aroclor-1232	<	581.67
4.	Aroclor-1242	<	581.67
5.	Aroclor-1248	<	581.67
6.	Aroclor-1254	<	581.67
7.	Aroclor-1260		2290.37

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-19-90	DATE ANALYZED:	06-22-90
SAMPLE TYPE:	Soil Sample	SAMPLE WEIGHT:	1.07
ANALYST:	M. Cooper	DILUTION FACTOR:	100.00
CUSTOMER SAMPLE NO.:	S25	EHRT SAMPLE NO.:	25427
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

	COMPOUNDS		RESULT ug/kg
1.	Aroclor-1016	<	58515.12
2.	Aroclor-1221	<	58515.12
3.	Aroclor-1232	<	58515.12
4.	Aroclor-1242	<	58515.12
5.	Aroclor-1248	<	58515.12
6.	Aroclor-1254	<	58515.12
7.	Aroclor-1260		383086.79

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-19-90	DATE ANALYZED:	06-20-90
SAMPLE TYPE:	Soil Sample	SAMPLE WEIGHT:	1.05
ANALYST:	M. Cooper	DILUTION FACTOR:	5000.00
CUSTOMER SAMPLE NO.:	S26	EHRT SAMPLE NO.:	25428
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

	COMPOUNDS	RESULT ug/kg
1.	Aroclor-1016	< 2964051.98
2.	Aroclor-1221	< 2964051.98
3.	Aroclor-1232	< 2964051.98
4.	Aroclor-1242	< 2964051.98
5.	Aroclor-1248	< 2964051.98
6.	Aroclor-1254	< 2964051.98
7.	Aroclor-1260	40302807.55

AR100253

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-19-90	DATE ANALYZED:	06-20-90
SAMPLE TYPE:	Soil Sample	SAMPLE WEIGHT:	1.16
ANALYST:	M. Cooper	DILUTION FACTOR:	2.00
CUSTOMER SAMPLE NO.:	S27	EHRT SAMPLE NO.:	25429
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

	COMPOUNDS		RESULT ug/kg
1.	Aroclor-1016	<	1081.50
2.	Aroclor-1221	<	1081.50
3.	Aroclor-1232	<	1081.50
4.	Aroclor-1242	<	1081.50
5.	Aroclor-1248	<	1081.50
6.	Aroclor-1254	<	1081.50
7.	Aroclor-1260		17251.25

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-19-90	DATE ANALYZED:	06-20-90
SAMPLE TYPE:	Soil Sample	SAMPLE WEIGHT:	1.05
ANALYST:	M. Cooper	DILUTION FACTOR:	50.00
CUSTOMER SAMPLE NO.:	S28	EHRT SAMPLE NO.:	25430
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

	COMPOUNDS		RESULT ug/kg
1.	Aroclor-1016	<	29784.60
2.	Aroclor-1221	<	29784.60
3.	Aroclor-1232	<	29784.60
4.	Aroclor-1242	<	29784.60
5.	Aroclor-1248	<	29784.60
6.	Aroclor-1254	<	29784.60
7.	Aroclor-1260		178445.48

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-19-90	DATE ANALYZED:	06-20-90
SAMPLE TYPE:	Soil Sample	SAMPLE WEIGHT:	1.07
ANALYST:	M. Cooper	DILUTION FACTOR:	2.00
CUSTOMER SAMPLE NO.:	S29	EHRT SAMPLE NO.:	25431
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

	COMPOUNDS		RESULT ug/kg
1.	Aroclor-1016	<	1164.74
2.	Aroclor-1221	<	1164.74
3.	Aroclor-1232	<	1164.74
4.	Aroclor-1242	<	1164.74
5.	Aroclor-1248	<	1164.74
6.	Aroclor-1254	<	1164.74
7.	Aroclor-1260		10315.88

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-19-90	DATE ANALYZED:	06-20-90
SAMPLE TYPE:	Soil Sample	SAMPLE WEIGHT:	1.03
ANALYST:	M. Cooper	DILUTION FACTOR:	1.00
CUSTOMER SAMPLE NO.:	S30	EHRT SAMPLE NO.:	25432
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

	COMPOUNDS		RESULT ug/kg
1.	Aroclor-1016	<	608.39
2.	Aroclor-1221	<	608.39
3.	Aroclor-1232	<	608.39
4.	Aroclor-1242	<	608.39
5.	Aroclor-1248	<	608.39
6.	Aroclor-1254	<	608.39
7.	Aroclor-1260		2578.85

AR100257

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-19-90	DATE ANALYZED:	06-22-90
SAMPLE TYPE:	Soil Blank 1	SAMPLE WEIGHT:	1.00
ANALYST:	M. Cooper	DILUTION FACTOR:	1.00
CUSTOMER SAMPLE NO.:	N/A	EHRT SAMPLE NO.:	N/A
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

	COMPOUNDS		RESULT ug/kg
1.	Aroclor-1016	<	625.00
2.	Aroclor-1221	<	625.00
3.	Aroclor-1232	<	625.00
4.	Aroclor-1242	<	625.00
5.	Aroclor-1248	<	625.00
6.	Aroclor-1254	<	625.00
7.	Aroclor-1260	<	625.00

Surrogate Recovery

Dibutylchlorendate - 107%

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-19-90	DATE ANALYZED:	06-22-90
SAMPLE TYPE:	Soil Blank 2	SAMPLE WEIGHT:	1.00
ANALYST:	M. Cooper	DILUTION FACTOR:	1.00
CUSTOMER SAMPLE NO.:	N/A	EHRT SAMPLE NO.:	N/A
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

	COMPOUNDS		RESULT ug/kg
1.	Aroclor-1016	<	625.00
2.	Aroclor-1221	<	625.00
3.	Aroclor-1232	<	625.00
4.	Aroclor-1242	<	625.00
5.	Aroclor-1248	<	625.00
6.	Aroclor-1254	<	625.00
7.	Aroclor-1260	<	625.00

Surrogate Recovery

Dibutylchlorendate - 99.7%

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-19-90	DATE ANALYZED:	06-22-90
SAMPLE TYPE:	Soil Blank 3	SAMPLE WEIGHT:	1.00
ANALYST:	M. Cooper	DILUTION FACTOR:	1.00
CUSTOMER SAMPLE NO.:	N/A	EHRT SAMPLE NO.:	N/A
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

	COMPOUNDS		RESULT ug/kg
1.	Aroclor-1016	<	625.00
2.	Aroclor-1221	<	625.00
3.	Aroclor-1232	<	625.00
4.	Aroclor-1242	<	625.00
5.	Aroclor-1248	<	625.00
6.	Aroclor-1254	<	625.00
7.	Aroclor-1260	<	625.00

Surrogate Recovery

Dibutylchlorendate - 103.7%

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-19-90	DATE ANALYZED:	06-22-90
SAMPLE TYPE:	Soil Blank 4	SAMPLE WEIGHT:	1.00
ANALYST:	M. Cooper	DILUTION FACTOR:	1.00
CUSTOMER SAMPLE NO.:	N/A	EHRT SAMPLE NO.:	N/A
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

	COMPOUNDS		RESULT ug/kg
1.	Aroclor-1016	<	625.00
2.	Aroclor-1221	<	625.00
3.	Aroclor-1232	<	625.00
4.	Aroclor-1242	<	625.00
5.	Aroclor-1248	<	625.00
6.	Aroclor-1254	<	625.00
7.	Aroclor-1260	<	625.00

Surrogate Recovery

Dibutylchlorendate - 91.8%

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-26-90	DATE ANALYZED:	06-26-90
SAMPLE TYPE:	Matrix Spike	SAMPLE WEIGHT:	1.00
ANALYST:	M. Cooper	DILUTION FACTOR:	1.00
CUSTOMER SAMPLE NO.:	S24	EHRT SAMPLE NO.:	25426
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

SPIKE RECOVERY
(Spiked with Aroclor-1260)

78.31%

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-26-90	DATE ANALYZED:	06-26-90
SAMPLE TYPE:	Matrix Spike Duplicate 1	SAMPLE WEIGHT:	1.00
ANALYST:	M. Cooper	DILUTION FACTOR:	1.00
CUSTOMER SAMPLE NO.:	S24	EHRT SAMPLE NO.:	25426
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

SPIKE RECOVERY
(Spiked with Aroclor-1260)

144.6%

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-26-90	DATE ANALYZED:	06-26-90
SAMPLE TYPE:	Matrix Spike Duplicate 2	SAMPLE WEIGHT:	1.00
ANALYST:	M. Cooper	DILUTION FACTOR:	1.00
CUSTOMER SAMPLE NO.:	S24	EHRT SAMPLE NO.:	25426
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

SPIKE RECOVERY
(Spiked with Aroclor-1260)

100.3%

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-26-90	DATE ANALYZED:	06-26-90
SAMPLE TYPE:	Matrix Spike Duplicate 3	SAMPLE WEIGHT:	1.00
ANALYST:	M. Cooper	DILUTION FACTOR:	1.00
CUSTOMER SAMPLE NO.:	S24	EHRT SAMPLE NO.:	25426
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

SPIKE RECOVERY
(Spiked with Aroclor-1260)

98.2%

AR100265

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-26-90	DATE ANALYZED:	06-26-90
SAMPLE TYPE:	Matrix Spike	SAMPLE WEIGHT:	1.00
ANALYST:	M. Cooper	DILUTION FACTOR:	1.00
CUSTOMER SAMPLE NO.:	S30	EHRT SAMPLE NO.:	25432
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

SPIKE RECOVERY
(Spiked with Aroclor-1260)

53.1%

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-26-90	DATE ANALYZED:	06-26-90
SAMPLE TYPE:	Matrix Spike Duplicate 1	SAMPLE WEIGHT:	1.00
ANALYST:	M. Cooper	DILUTION FACTOR:	1.00
CUSTOMER SAMPLE NO.:	S30	EHRT SAMPLE NO.:	25432
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

SPIKE RECOVERY
(Spiked with Aroclor-1260)

131.9%

AR100267

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-26-90	DATE ANALYZED:	06-26-90
SAMPLE TYPE:	Matrix Spike Duplicate 2	SAMPLE WEIGHT:	1.00
ANALYST:	M. Cooper	DILUTION FACTOR:	1.00
CUSTOMER SAMPLE NO.:	S30	EHRT SAMPLE NO.:	25432
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

SPIKE RECOVERY
(Spiked with Aroclor-1260)

92.8%

ENVIRONMENTAL HEALTH RESEARCH AND TESTING, INC.
PCB ANALYSIS

CUSTOMER NAME:	ROY F. WESTON, INC.		
SAMPLE SOURCE:	Shaffer Equipment Site		
WORK ORDER NO.:	N/A	PROJECT NO.:	11678
DATE EXTRACTED:	06-26-90	DATE ANALYZED:	06-26-90
SAMPLE TYPE:	Matrix Spike Duplicate 3	SAMPLE WEIGHT:	1.00
ANALYST:	M. Cooper	DILUTION FACTOR:	1.00
CUSTOMER SAMPLE NO.:	S30	EHRT SAMPLE NO.:	25432
LAB NOTEBOOK NO.:	142, Pg. 3	METHOD NO.:	EPA 8080

SPIKE RECOVERY
(Spiked with Aroclor-1260)

90.5%

441	0-100% of mass 443	5.86	65.70	Ok
442	Greater than 40% of mass 198	45.33	45.33	Ok
443	17-23% of mass 442	8.92	19.68	Ok

Injection Date: 06/26/90
Injection Time: 15:41
Data File: >DFT92
Scan: 688

```
:SCA
:ES,687
TUNER,=DF reg type  # pts  scan#   range: amu\r.t.      base   file      ion rar
ge
--- ---- ----- ----- ---------------  ------ ----- -------------
 X   MS    275   687   37.00-   445.20  82200.2 >DFT92
:PP
```

GC/MS PERFORMANCE STANDARD

Decafluorotriphenylphospine (DFTPP)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
51	30-60% of mass 198	46.60	46.60	Ok
68	Less than 2% of mass 69	.85	1.36	Ok
69	(reference only)	62.43	62.43	Ok
70	Less than 2% of mass 69	.26	.42	Ok
127	40-60% of mass 198	52.57	52.57	Ok
197	Less than 1% of mass 198	.35	.35	Ok
198	Base peak, 100% relative abundance	100.00	100.00	Ok
199	5-9% of mass 198	6.17	6.17	Ok
275	10-30% of mass 198	19.42	19.42	Ok
365	Greater than 1% of mass 198	3.29	3.29	Ok
441	0-100% of mass 443	9.38	69.87	Ok
442	Greater than 40% of mass 198	64.26	64.26	Ok
443	17-23% of mass 442	13.42	20.89	Ok

Injection Date: 06/26/90
Injection Time: 15:41
Data File: >DFT92
Scan: 687

:

:QREP.^PH626

QUANT REPORT

Operator ID: NUSE
Output File: ^PH626::Q2
Data File: >PH526::A2
Name: 50 PPM PHENOL 6/26
Misc: CAL CHK

Quant Rev: 6
Quant Time: 900626 17:59
Injected at: 900626 17:18
Dilution Factor: 1.00000

BTL# 3

ID File: ID_OMA::A1
Title: P ABN Standards for 5 point Calibration Curve Rev. E
Last Calibration: 900623 15:52

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-D4	13.42	926	146292	20.00	ng/uL	95
3)	2-Fluorophenol	9.11	392	645318	111.90	ng/uL	91
4)	Phenol-d5	12.73	841	724435	115.11	ng/uL	87
5)	Phenol	12.78	847	435649M	57.20	ng/uL	79
8)	2-Methylphenol	14.71	1086	334274	57.25	ng/uL	93
9)	4-Methylphenol	15.21	1148	322554	55.37	ng/uL	95
10)	2-Chlorophenol	12.85	856	397944	57.42	ng/uL	92
17)	*NAPHTHALENE-D8	17.45	1426	307811	20.00	ng/uL	99
21)	2-Nitrophenol	16.43	1300	203347	55.99	ng/uL	76
22)	2,4-Dimethylphenol	16.78	1343	398656	55.89	ng/uL	94
23)	Benzoic acid	17.40	1420	133212M	44.80	ng/uL	
25)	2,4-Dichlorophenol	17.19	1393	248815	55.42	ng/uL	
30)	4-Chloro-3-methylphenol	19.33	1659	262314	54.74	ng/uL	[illegible]
33)	*ACENAPHTENE-D10	22.31	2028	101416	20.00	ng/uL	93
34)	2,4,6-Trichlorophenol	20.40	1792	109507	49.82	ng/uL	97
40)	2,4-Dinitrophenol	22.55	2058	28419M	48.17	ng/uL	
41)	4-Nitrophenol	22.86	2096	51657M	59.20	ng/uL	
49)	2,4,5-Trichlorophenol	20.49	1803	101317	49.54	ng/uL	90
52)	4,6-Dinitro-2-methylphenol	24.00	2238	40830M	58.45	ng/uL	56
54)	*PHENANTHRENE-d10	26.11	2499	84122	20.00	ng/uL	72
55)	2,4,6-Tribromophenol	24.40	2287	36892M	93.58	ng/uL	
58)	Pentachlorophenol	25.83	2465	27348	55.76	ng/uL	86
67)	*CHRYSENE-d12	33.71	3443	29310	20.00	ng/uL	100

* Compound is ISTD

AR1002[illegible]

AR100271

:QREP,^BN626

QUANT REPORT

Operator ID: NUSE Quant Rev: 6 Quant Time: 900626 19:10
Output File: ^BN626::Q2 Injected at: 900626 18:09
Data File: >BN626::A2 Dilution Factor: 1.00000
Name: 50 PPM BN 6/26
Misc: CAL CHK BTL# 1

ID File: ID_OMA::A1
Title: P ABN Standards for 5 point Calibration Curve Rev. E
Last Calibration: 900623 15:52

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-D4	13.40	920	116478	20.00	ng/uL	93
2)	Aniline	12.43	799	325371	54.82	ng/uL	90
6)	Benzyl alcohol	14.12	1009	130242M	57.19	ng/uL	90
7)	bis(2-Chloroethyl)Ether	12.75	839	276205M	56.32	ng/uL	97
11)	1,3-Dichlorobenzene	13.27	903	262116	54.61	ng/uL	92
12)	1,4-Dichlorobenzene	13.47	928	271036	55.71	ng/uL	94
13)	1,2-Dichlorobenzene	14.08	1004	247362	56.19	ng/uL	94
14)	Bis(2-Chloroisopropyl)ether	14.66	1075	317518	47.95	ng/uL	100
15)	N-Nitroso-Di-n-propylamine	15.12	1132	173094M	54.70	ng/uL	
16)	Hexachloroethane	15.09	1129	135703M	53.80	ng/uL	81
17)	*NAPHTHALENE-D8	17.45	1421	254503	20.00	ng/uL	99
18)	Nitrobenzene-d5	15.35	1161	321795	57.75	ng/uL	94
19)	Nitrobenzene	15.41	1169	327751	59.32	ng/uL	88
20)	Isophorone	16.18	1264	532781M	55.84	ng/uL	87
24)	bis(2-Chloroethoxy)methane	16.99	1364	352434	58.14	ng/uL	96
26)	1,2,4-Trichlorobenzene	17.37	1411	165117	46.48	ng/uL	96
27)	Naphthalene	17.51	1429	622535	58.48	ng/uL	91
28)	4-Chloroaniline	17.81	1466	225370	54.22	ng/uL	99
29)	Hexachlorobutadiene	18.13	1506	91106	43.54	ng/uL	90
31)	2-Methylnaphthalene	19.49	1674	311572	56.69	ng/uL	94
32)	Hexachlorocyclopentadiene	20.15	1756	76440M	56.81	ng/uL	86
33)	*ACENAPHTENE-D10	22.30	2023	84943M	20.00	ng/uL	90
35)	2-Chloronaphthalene	20.79	1835	286299	51.29	ng/uL	91
36)	2-Fluorobiphenyl	20.60	1812	294303	46.43	ng/uL	96
37)	Dimethylphthalate	21.83	1964	291338	56.73	ng/uL	94
38)	Acenaphthylene	21.89	1972	424350	53.21	ng/uL	92
39)	Acenaphthene	22.39	2034	248091	50.65	ng/uL	95
41)	4-Nitrophenol	22.40	2035	2127	2.91	ng/uL	76
42)	2,4-Dinitrotoluene	22.95	2103	52187M	59.45	ng/uL	
43)	2,6-Dinitrotoluene	21.96	1980	50380M	52.00	ng/uL	
44)	2-Nitroaniline	21.18	1884	101076M	59.03	ng/uL	
45)	3-Nitroaniline	22.28	2020	51307M	60.36	ng/uL	100
46)	4-Nitroaniline	24.10	2245	29874M	48.61	ng/uL	96
47)	Diethylphthalate	23.68	2193	260149M	59.60	ng/uL	91
48)	Dibenzofuran	22.81	2086	304237	55.39	ng/uL	76
50)	4-Chlorophenyl-phenylether	23.77	2204	80413M	57.24	ng/uL	
51)	Fluorene	23.71	2197	200296	56.83	ng/uL	
53)	N-Nitrosodiphenylamine	24.09	2244	99572M	58.27	ng/uL	98
54)	*PHENANTHRENE-d10	26.09	2492	89642	20.00	ng/uL	69
56)	4-Bromophenyl-phenylether	25.00	2357	38383M	44.45	ng/uL	
57)	Hexachlorobenzene	25.36	2401	40338M	46.02	ng/uL	
59)	Phenanthrene	26.16	2500	249824	46.49	ng/uL	98

AR-100272

60)	Anthracene	[illegible]	[illegible]	[illegible]	[illegible]	ng/uL	[illegible]
61)	Di-n-Butylphthalate	27.86	2711	280491M	54.84	ng/uL	92
62)	Fluoranthene	29.21	2879	171317M	57.18	ng/uL	91
63)	Benzidine	29.59	2926	29392	115.08	ng/uL	91
64)	Pyrene	29.77	2948	150550M	56.55	ng/uL	72
65)	Terphenyl-d14	30.27	3010	62440M	59.50	ng/uL	[illegible]
66)	Butylbenzylphthalate	31.87	3209	45841M	52.22	ng/uL	
67)	*CHRYSENE-d12	33.70	3436	24687	20.00	ng/uL	
68)	3,3'-Dichlorobenzidine	33.65	3430	5637M	42.43	ng/uL	79
69)	Benzo(a)Anthracene	33.64	3428	90489	58.30	ng/uL	91
70)	Bis(2-Ethylhexyl)Phthalate	34.40	3522	84802M	55.96	ng/uL	83
71)	Chrysene	33.80	3448	69584	46.13	ng/uL	97
72)	Di-n-octylphthalate	38.04	3974	76131M	53.45	ng/uL	99
73)	*PERYLENE-d12	42.65	4547	16808	20.00	ng/uL	100
74)	Benzo(b)fluoranthene	39.69	4179	74317M	49.80	ng/uL	92
75)	Benzo(k)Fluoranthene	39.87	4202	64183M	41.07	ng/uL	95
76)	Benzo(a)Pyrene	42.15	4485	57553	41.15	ng/uL	96
77)	Indeno(1,2,3-cd)Pyrene	52.52	5772	41653	47.79	ng/uL	62
78)	Dibenzo(a,h)Anthracene	52.77	5803	42806M	44.85	ng/uL	100
79)	Benzo(g,h,i)Perylene	53.86	5939	42021M	43.83	ng/uL	

* Compound is ISTD

Calibration Check Report

Title: HP ABN Standards for 5 point Calibration Curve Rev. E
Calibrated: 900623 15:32

Check Standard Data File: >PH526
Injection Time: 900626 17:18

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
Aniline	1.01904	1.11736	9.65	Average	
2-Fluorophenol	.78839	.88223	11.90	Average	(Conc=100.00)
Phenol-d5	.86039	.99040	15.11	Average	(Conc=100.00)
Phenol	1.04126	1.19118	14.40	Average	
Benzyl alcohol	.39102	.44727	14.38	Average	
bis(2-Chloroethyl)Ether	.84212	.94852	12.63	Average	
2-Methylphenol	.79828	.91399	14.50	Average	
4-Methylphenol	.79639	.88195	10.74	Average	
2-Chlorophenol	.94754	1.08808	14.83	Average	
1,3-Dichlorobenzene	.82408	.90014	9.23	Average	
1,4-Dichlorobenzene	.83530	.93077	11.43	Average	
1,2-Dichlorobenzene	.75589	.84947	12.38	Average	
Bis(2-Chloroisopropyl)ether	1.13713	1.09040	4.11	Average	
N-Nitroso-Di-n-propylamine	.54340	.59443	9.39	Average	
Hexachloroethane	.43310	.46602	7.60	Average	
Nitrobenzene-d5	.43789	.50576	15.50	Average	(Conc=50.00)
robenzene	.43420	.51512	18.64	Average	
ophorone	.74984	.83737	11.67	Average	
2-Nitrophenol	.23597	.26425	11.98	Average	
2,4-Dimethylphenol	.46346	.51805	11.78	Average	
Benzoic acid	.19318	.17311	10.39	Average	
bis(2-Chloroethoxy)methane	.47639	.55392	16.27	Average	
2,4-Dichlorophenol	.29174	.32333	10.83	Average	
1,2,4-Trichlorobenzene	.27917	.25951	7.04	Average	
Naphthalene	.83662	.97843	16.95	Average	
4-Chloroaniline	.32664	.35421	8.44	Average	
Hexachlorobutadiene	.16442	.14319	12.91	Average	
4-Chloro-3-methylphenol	.31135	.34088	9.48	Average	
2-Methylnaphthalene	.43187	.48969	13.39	Average	
Hexachlorocyclopentadiene	.10574	.12014	13.62	Average	
2,4,6-Trichlorophenol	.43349	.43191	.36	Average	
2-Chloronaphthalene	1.31439	1.34819	2.57	Average	
2-Fluorobiphenyl	1.49253	1.38588	7.15	Average	(Conc=50.00)
Dimethylphthalate	1.20909	1.37192	13.47	Average	
Acenaphthylene	1.87765	1.99828	6.42	Average	
Acenaphthene	1.15329	1.16827	1.30	Average	
2,4-Dinitrophenol	.11634	.11209	3.66	Average	
4-Nitrophenol	.17209	.20374	18.40	Average	
2,4-Dinitrotoluene	.20670	.24575	18.89	Average	
2,6-Dinitrotoluene	.22812	.23724	4.00	Average	

AR100274

- Response Factor from daily standard file at 50.00 ng/uL

$\overline{RF}$ - Average Response Factor from Initial Calibration

%Diff - % Difference from original average or curve

Calibration Check Report

Title: HP ABN Standards for 5 point Calibration Curve Rev. E
Calibrated: 900623 15:32

Check Standard Data File: PH526
Injection Time: 900626 17:18

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
2-Nitroaniline	.40313	.47597	18.07	Average	
3-Nitroaniline	.20015	.24161	20.71	Average	
4-Nitroaniline	.14469	.14068	2.77	Average	
Diethylphthalate	1.02772	1.22505	19.20	Average	
Dibenzofuran	1.29334	1.43266	10.77	Average	
2,4,5-Trichlorophenol	.40333	.39961	.92	Average	
4-Chlorophenyl-phenylether	.33075	.37867	14.49	Average	
Fluorene	.82987	.94320	13.66	Average	
4,6-Dinitro-2-methylphenol	.13776	.16104	16.90	Average	
N-Nitrosodiphenylamine	.40236	.46889	16.53	Average	
2,4,6-Tribromophenol	.09372	.08771	6.42	Average	(Conc=100.00)
4-Bromophenyl-phenylether	.19266	.17127	11.10	Average	
Hexachlorobenzene	.19555	.18000	7.95	Average	
Pentachlorophenol	.11660	.13004	11.52	Average	
Phenanthrene	1.19901	1.11476	7.03	Average	
Anthracene	1.07727	.96445	10.47	Average	
Di-n-Butylphthalate	1.14118	1.25161	9.68	Average	
Fluoranthene	.66843	.76445	14.36	Average	
Benzidine	.05699	.13115	130.15	Average	
Pyrene	.59397	.67178	13.10	Average	
Terphenyl-d14	.23413	.27862	19.00	Average	(Conc=50.00)
Butylbenzylphthalate	.19585	.20455	4.44	Average	
3,3'-Dichlorobenzidine	.10764	.09134	15.15	Average	
Benzo(a)Anthracene	1.25734	1.46618	16.61	Average	
Bis(2-Ethylhexyl)Phthalate	1.22769	1.37403	11.92	Average	
Chrysene	1.22216	1.12746	7.75	Average	
Di-n-octylphthalate	1.15383	1.23354	6.91	Average	
Benzo(b)fluoranthene	1.77589	1.76861	.41	Average	
Benzo(k)Fluoranthene	1.85974	1.52744	17.87	Average	
Benzo(a)Pyrene	1.66418	1.36966	17.70	Average	
Indeno(1,2,3-cd)Pyrene	1.03702	.99127	4.41	Average	
Dibenzo(a,h)Anthracene	1.13567	1.01871	10.30	Average	
Benzo(g,h,i)Perylene	1.14072	1.00002	12.33	Average	

RF - Response Factor from daily standard file at 50.00 ng/uL

$\overline{RF}$ - Average Response Factor from Initial Calibration

%Diff - % Difference from original average or curve

AR100275

GC/MS Top Level. Select softkey...

Injection Date: 06/27/90
Injection Time: 10:19
Data File: >DFT93
Scan: 687

Spectrum fails specified criteria.

THIS IS NOT A VALID SPECTRUM
R-Global(20) = 688.0000

reg	type	# pts	scan#	range: amu\r.t.	base	file	ion range
X	MS	238	688	37.00- 444.30	29848.1	>DFT93	

GC/MS PERFORMANCE STANDARD

Decafluorotriphenylphospine (DFTPP)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
51	30-60% of mass 198	44.39	44.39	Ok
68	Less than 2% of mass 69	.93	1.50	Ok
69	(reference only)	62.07	62.07	Ok
70	Less than 2% of mass 69	.22	.35	Ok
127	40-60% of mass 198	53.88	53.88	Ok
197	Less than 1% of mass 198	.62	.62	Ok
198	Base peak, 100% relative abundance	100.00	100.00	Ok
199	5-9% of mass 198	7.20	7.20	Ok
275	10-30% of mass 198	21.38	21.38	Ok
365	Greater than 1% of mass 198	3.67	3.67	Ok
441	0-100% of mass 443	11.57	66.14	Ok
442	Greater than 40% of mass 198	84.03	84.03	Ok
443	17-23% of mass 442	17.49	20.82	Ok

Injection Date: 06/27/90
Injection Time: 10:19
Data File: >DFT93
Scan: 688

THIS IS A VALID SPECTRUM

Calibration Check Report

Title: HP ABN Standards for 5 point Calibration Curve Rev. E
Calibrated: 900623 15:32

Check Standard Data File: >PH527
Injection Time: 900627 15:10

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
Aniline	1.01904	1.11446	9.36	Average	
2-Fluorophenol	.78839	.73358	6.95	Average	(Conc=100.00)
Phenol-d5	.86039	.85312	.84	Average	(Conc=100.00)
Phenol	1.04126	1.01607	2.42	Average	
Benzyl alcohol	.39102	.46468	18.84	Average	
bis(2-Chloroethyl)Ether	.84212	.98393	16.84	Average	
2-Methylphenol	.79828	.79136	.87	Average	
4-Methylphenol	.79639	.80430	.99	Average	
2-Chlorophenol	.94754	.99834	5.36	Average	
1,3-Dichlorobenzene	.82408	.90515	9.84	Average	
1,4-Dichlorobenzene	.83530	.94831	13.53	Average	
1,2-Dichlorobenzene	.75589	.85642	13.30	Average	
Bis(2-Chloroisopropyl)ether	1.13713	1.10684	2.66	Average	
N-Nitroso-Di-n-propylamine	.54348	.53268	1.97	Average	
Hexachloroethane	.43310	.45160	4.27	Average	
Nitrobenzene-d5	.43789	.45220	3.27	Average	(Conc=50.00)
Nitrobenzene	.43420	.46486	7.06	Average	
Isophorone	.74984	.75730	.99	Average	
2-Nitrophenol	.23597	.25606	8.51	Average	
2,4-Dimethylphenol	.46346	.47750	3.03	Average	
Benzoic acid	.19318	.16965	12.18	Average	
bis(2-Chloroethoxy)methane	.47639	.51782	8.70	Average	
2,4-Dichlorophenol	.29174	.33703	15.52	Average	
1,2,4-Trichlorobenzene	.27917	.29481	5.60	Average	
Naphthalene	.83662	.75946	9.22	Average	
4-Chloroaniline	.32664	.31073	4.87	Average	
Hexachlorobutadiene	.16442	.17937	9.09	Average	
4-Chloro-3-methylphenol	.31135	.34757	11.63	Average	
2-Methylnaphthalene	.43187	.50170	16.17	Average	
Hexachlorocyclopentadiene	.10574	.11872	12.28	Average	
2,4,6-Trichlorophenol	.43349	.49186	13.46	Average	
2-Chloronaphthalene	1.31439	1.31548	.08	Average	
2-Fluorobiphenyl	1.49253	1.36979	8.22	Average	(Conc=50.00)
Dimethylphthalate	1.20909	1.32606	9.67	Average	
Acenaphthylene	1.87765	1.69878	9.53	Average	
Acenaphthene	1.15329	1.10327	4.34	Average	
2,4-Dinitrophenol	.11634	.12373	6.35	Average	
4-Nitrophenol	.17209	.18798	9.19	Average	
2,4-Dinitrotoluene	.20670	.21919	6.05	Average	
2,6-Dinitrotoluene	.22812	.25336	11.06	Average	

RF - Response Factor from daily standard file at 50.00 ng/uL

$\overline{RF}$ - Average Response Factor from Initial Calibration

%Diff - % Difference from original average or curve

AR10027

AR100277

Calibration Check Report

Title: HP ABN Standards for 5 point Calibration Curve Rev. E
Calibrated: 900623 15:32

Check Standard Data File: >PH527
Injection Time: 900627 15:10

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
2-Nitroaniline	.40313	.46657	15.74	Average	
3-Nitroaniline	.20015	.22893	14.38	Average	
4-Nitroaniline	.14469	.15375	6.26	Average	
Diethylphthalate	1.02772	1.19736	16.51	Average	
Dibenzofuran	1.29334	1.35768	4.97	Average	
2,4,5-Trichlorophenol	.40333	.44052	9.22	Average	
4-Chlorophenyl-phenylether	.33075	.36444	10.19	Average	
Fluorene	.82987	.91159	9.85	Average	
4,6-Dinitro-2-methylphenol	.13776	.15082	9.49	Average	
N-Nitrosodiphenylamine	.40236	.47692	18.53	Average	
2,4,6-Tribromophenol	.09372	.10578	12.87	Average	(Conc=100.00)
4-Bromophenyl-phenylether	.19266	.20754	7.72	Average	
Hexachlorobenzene	.19555	.19736	.93	Average	
Pentachlorophenol	.11660	.10462	10.28	Average	
Phenanthrene	1.19901	1.11923	6.65	Average	
Anthracene	1.07727	.93371	13.33	Average	
Di-n-Butylphthalate	1.14118	1.35498	18.73	Average	
Fluoranthene	.66843	.78033	16.74	Average	
Benzidine	.05699	.03150	44.72	Average	
Pyrene	.59397	.66496	11.95	Average	
Terphenyl-d14	.23413	.27523	17.55	Average	(Conc=50.00)
Butylbenzylphthalate	.19585	.23011	17.50	Average	
3,3'-Dichlorobenzidine	.10764	.12883	19.69	Average	
Benzo(a)Anthracene	1.25734	1.42717	13.51	Average	
Bis(2-Ethylhexyl)Phthalate	1.22769	1.33047	8.37	Average	
Chrysene	1.22216	1.14794	6.07	Average	
Di-n-octylphthalate	1.15383	1.36607	18.39	Average	
Benzo(b)fluoranthene	1.77589	1.87852	5.78	Average	
Benzo(k)Fluoranthene	1.85974	1.66470	10.49	Average	
Benzo(a)Pyrene	1.66418	1.51551	8.93	Average	
Indeno(1,2,3-cd)Pyrene	1.03702	.95818	7.60	Average	
Dibenzo(a,h)Anthracene	1.13567	.92435	18.61	Average	
Benzo(g,h,i)Perylene	1.14072	.97363	14.65	Average	

RF - Response Factor from daily standard file at 50.00 ng/uL

- Average Response Factor from Initial Calibration

%Diff - % Difference from original average or curve

AR100278

QUANT REPORT

Operator ID: NUSE
Output File: ^PH527::Q2
Data File: >PH527::D1
Name: 50 PPM PHENOL 6/27
Misc: CAL CHK 11:30 AM

Quant Rev: 6
Quant Time: 900627 16:12
Injected at: 900627 15:10
Dilution Factor: 1.00000
BTL# 3

ID File: ID_OMA::A1
Title: P ABN Standards for 5 point Calibration Curve Rev. E
Last Calibration: 900623 15:52

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-D4	13.42	150.0	250796	20.00	ng/uL	96
3)	2-Fluorophenol	9.12	112.0	919889	93.05	ng/uL	97
4)	Phenol-d5	12.75	99.0	1069796	99.16	ng/uL	85
5)	Phenol	12.80	94.0	637063	48.79	ng/uL	78
8)	2-Methylphenol	14.71	108.0	496173	49.57	ng/uL	90
9)	4-Methylphenol	15.22	108.0	504290	50.50	ng/uL	92
10)	2-Chlorophenol	12.86	128.0	625949	52.68	ng/uL	84
17)	*NAPHTHALENE-D8	17.46	136.0	528916	20.00	ng/uL	95
21)	2-Nitrophenol	16.44	139.0	338580	54.26	ng/uL	86
22)	2,4-Dimethylphenol	16.79	107.0	631387	51.51	ng/uL	93
23)	Benzoic acid	17.48	105.0	224333M	43.91	ng/uL	
25)	2,4-Dichlorophenol	17.20	162.0	445649	57.76	ng/uL	[illegible]
30)	4-Chloro-3-methylphenol	19.35	107.0	459583	55.82	ng/uL	[illegible]
33)	*ACENAPHTENE-D10	22.32	164.0	194920	20.00	ng/uL	97
34)	2,4,6-Trichlorophenol	20.40	196.0	239682	56.73	ng/uL	97
40)	2,4-Dinitrophenol	22.56	184.0	60294M	53.18	ng/uL	
41)	4-Nitrophenol	22.87	139.0	91564M	54.59	ng/uL	
49)	2,4,5-Trichlorophenol	20.51	196.0	214665	54.61	ng/uL	98
52)	4,6-Dinitro-2-methylphenol	24.02	198.0	73497M	54.74	ng/uL	70
54)	*PHENANTHRENE-d10	26.11	188.0	163724	20.00	ng/uL	88
55)	2,4,6-Tribromophenol	24.40	330.0	86595M	112.87	ng/uL	
58)	Pentachlorophenol	25.85	266.0	42822	44.86	ng/uL	85
67)	*CHRYSENE-d12	33.72	240.4	27431	20.00	ng/uL	100
73)	*PERYLENE-d12	42.75	264.3	11491	20.00	ng/uL	100

* Compound is ISTD

QUANT REPORT

Operator ID: NUSE Quant Rev: 6 Quant Time: 900627 15:02
Output File: ^BN527::Q2 Injected at: 900627 14:00
Data File: >BN527::D1 Dilution Factor: 1.00000
Name: 50 PPM BN 6/27
Misc: CAL CHK 10:30 AM BTL# 2

ID File: ID_OMA::A1
Title: P ABN Standards for 5 point Calibration Curve Rev. E
Last Calibration: 900623 15:52

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-D4	13.42	150.0	220284	20.00	ng/uL	94
2)	Aniline	12.45	93.0	613747	54.68	ng/uL	90
6)	Benzyl alcohol	14.16	108.0	255905	59.42	ng/uL	90
7)	bis(2-Chloroethyl)Ether	12.78	93.0	541860	58.42	ng/uL	94
11)	1,3-Dichlorobenzene	13.29	146.0	498474	54.92	ng/uL	97
12)	1,4-Dichlorobenzene	13.49	146.0	522242	56.76	ng/uL	95
13)	1,2-Dichlorobenzene	14.10	146.0	471640	56.65	ng/uL	92
14)	Bis(2-Chloroisopropyl)ether	14.68	45.0	609548	48.67	ng/uL	100
15)	N-Nitroso-Di-n-propylamine	15.14	70.0	293350M	49.01	ng/uL	
16)	Hexachloroethane	15.09	117.0	248698	52.14	ng/uL	95
17)	*NAPHTHALENE-D8	17.46	136.0	468622	20.00	ng/uL	97
[illegible])	Nitrobenzene-d5	15.38	82.0	529776	51.63	ng/uL	92
[illegible])	Nitrobenzene	15.43	77.0	544605	53.53	ng/uL	90
20)	Isophorone	16.19	82.0	887223	50.50	ng/uL	96
24)	bis(2-Chloroethoxy)methane	17.01	93.0	606653	54.35	ng/uL	98
26)	1,2,4-Trichlorobenzene	17.38	180.0	345384	52.80	ng/uL	92
27)	Naphthalene	17.53	128.0	889751	45.39	ng/uL	96
28)	4-Chloroaniline	17.83	127.0	364034	47.56	ng/uL	93
29)	Hexachlorobutadiene	18.14	225.0	210142	54.55	ng/uL	85
31)	2-Methylnaphthalene	19.50	142.0	587772	58.08	ng/uL	96
32)	Hexachlorocyclopentadiene	20.16	237.0	139087M	56.14	ng/uL	90
33)	*ACENAPHTENE-D10	22.32	164.0	174720	20.00	ng/uL	94
35)	2-Chloronaphthalene	20.81	162.0	574603	50.04	ng/uL	92
36)	2-Fluorobiphenyl	20.61	172.0	598325	45.89	ng/uL	99
37)	Dimethylphthalate	21.84	163.0	579221	54.84	ng/uL	97
38)	Acenaphthylene	21.91	152.0	742028	45.24	ng/uL	96
39)	Acenaphthene	22.41	153.0	481910	47.83	ng/uL	92
42)	2,4-Dinitrotoluene	22.97	165.1	95744M	53.02	ng/uL	
43)	2,6-Dinitrotoluene	21.98	165.0	110667M	55.53	ng/uL	
44)	2-Nitroaniline	21.20	65.0	203797	57.87	ng/uL	86
45)	3-Nitroaniline	22.30	138.0	99995M	57.19	ng/uL	100
46)	4-Nitroaniline	23.89	65.0	67157M	53.13	ng/uL	91
47)	Diethylphthalate	23.69	149.0	523005	58.25	ng/uL	96
48)	Dibenzofuran	22.83	168.0	593036	52.49	ng/uL	67
50)	4-Chlorophenyl-phenylether	23.78	204.0	159187M	55.09	ng/uL	
51)	Fluorene	23.72	165.0	398184	54.92	ng/uL	90
53)	N-Nitrosodiphenylamine	24.11	169.0	208317M	59.26	ng/uL	97
[illegible])	*PHENANTHRENE-d10	26.12	188.0	160466	20.[illegible]	ng/uL	86
[illegible])	4-Bromophenyl-phenylether	25.02	248.0	83256M	53.86	ng/uL	
57)	Hexachlorobenzene	25.37	284.0	79173M	50.46	ng/uL	
59)	Phenanthrene	26.18	178.0	448995	46.67	ng/uL	99
60)	Anthracene	26.29	178.0	374573	43.34	ng/uL	98
61)	Di-n-Butylphthalate	27.88	149.0	543572	59.37	ng/uL	92

AR100280

Data Acquisition. Select Softkey...

Injection Date: 06/28/90
Injection Time: 09:46
Data File: >DFT94
Scan: 692

Spectrum fails specified criteria.

THIS IS NOT A VALID SPECTRUM
R-Global(20) = 693.0000

reg	type	# pts	scan#	range: amu\r.t.	base	file	ion range
X	MS	257	693	37.10- 445.30	46440.1	>DFT94	

GC/MS PERFORMANCE STANDARD

Decafluorotriphenylphospine (DFTPP)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
51	30-60% of mass 198	46.27	46.27	Ok
68	Less than 2% of mass 69	0.00	0.00	Ok
69	(reference only)	59.05	59.05	Ok
70	Less than 2% of mass 69	.23	.39	Ok
127	40-60% of mass 198	48.30	48.30	Ok
197	Less than 1% of mass 198	0.00	0.00	Ok
198	Base peak, 100% relative abundance	100.00	100.00	Ok
199	5-9% of mass 198	6.26	6.26	Ok
275	10-30% of mass 198	15.74	15.74	Ok
365	Greater than 1% of mass 198	3.20	3.20	Ok
441	0-100% of mass 443	8.80	64.71	Ok
442	Greater than 40% of mass 198	73.16	73.16	Ok
443	17-23% of mass 442	13.61	18.60	Ok

Injection Date: 06/28/90
Injection Time: 09:46
Data File: >DFT94
Scan: 693

THIS IS A VALID SPECTRUM

:P
RU,QREP,^PH528

QUANT REPORT

Operator ID: MONA
Output File: ^PH528::QT
Data File: >PH528::D1
Name: 50 PPM PHENOL 6/28
Misc: CAL CHK 11:30 AM

Quant Rev: 6
Quant Time: 900628 14:45
Injected at: 900628 13:34
Dilution Factor: 1.00000
BTL# 3

ID File: ID_OMA::A1
Title: P ABN Standards for 5 point Calibration Curve Rev. E
Last Calibration: 900623 15:52

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-D4	13.37	914	324516	20.00	ng/uL	98
3)	2-Fluorophenol	9.09	383	1271995	99.43	ng/uL	96
4)	Phenol-d5	12.72	833	1356350	97.16	ng/uL	82
5)	Phenol	12.79	842	862593	51.06	ng/uL	81
8)	2-Methylphenol	14.69	1077	603813	46.62	ng/uL	88
9)	4-Methylphenol	15.18	1138	577248	44.67	ng/uL	95
10)	2-Chlorophenol	12.82	846	745233	48.47	ng/uL	91
17)	*NAPHTHALENE-D8	17.42	1415	435425M	20.00	ng/uL	97
21)	2-Nitrophenol	16.40	1289	260901M	50.78	ng/uL	84
22)	2,4-Dimethylphenol	16.76	1334	562738M	55.77	ng/uL	94
23)	Benzoic acid	17.35	1407	167939M	39.93	ng/uL	
25)	2,4-Dichlorophenol	17.16	1383	363438M	57.22	ng/uL	97
30)	4-Chloro-3-methylphenol	19.29	1647	393279	58.02	ng/uL	97
33)	*ACENAPHTENE-D10	22.27	2016	148007M	20.00	ng/uL	97
34)	2,4,6-Trichlorophenol	20.36	1779	193478	60.31	ng/uL	95
40)	2,4-Dinitrophenol	22.51	2046	35128M	40.80	ng/uL	
41)	4-Nitrophenol	22.81	2083	76984M	60.45	ng/uL	
49)	2,4,5-Trichlorophenol	20.45	1791	168856	56.57	ng/uL	98
52)	4,6-Dinitro-2-methylphenol	23.96	2226	51563	50.58	ng/uL	52
54)	*PHENANTHRENE-d10	26.05	2485	115540	20.00	ng/uL	82
55)	2,4,6-Tribromophenol	24.34	2273	59919M	110.67	ng/uL	
58)	Pentachlorophenol	25.79	2452	34383	51.04	ng/uL	89
67)	*CHRYSENE-d12	33.60	3422	20874	20.00	ng/uL	100
73)	*PERYLENE-d12	42.48	4525	6890	20.00	ng/uL	100

* Compound is ISTD

:CRT,FF
Q

:WAITING FOR INPUT

QUANT REPORT

Operator ID: NUSE Quant Rev: 6 Quant Time: 900628 11:35
Output File: ^BN628::Q2 Injected at: 900628 10:37
Data File: >BN628::D1 Dilution Factor: 1.00000
Name: 50 PPM BN 6/28
Misc: CAL CHK 10:30 AM BTL# 2

ID File: ID_OMA::A1
Title: P ABN Standards for 5 point Calibration Curve Rev. E
Last Calibration: 900623 15:52

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-D4	13.41	921	332185M	20.00	ng/uL	93
2)	Aniline	12.46	803	892502	52.73	ng/uL	92
6)	Benzyl alcohol	14.15	1012	327971	50.50	ng/uL	89
7)	bis(2-Chloroethyl)Ether	12.77	842	783348	56.01	ng/uL	92
11)	1,3-Dichlorobenzene	13.28	905	790498	57.75	ng/uL	95
12)	1,4-Dichlorobenzene	13.49	930	766572	55.25	ng/uL	98
13)	1,2-Dichlorobenzene	14.09	1005	708639	56.44	ng/uL	97
14)	Bis(2-Chloroisopropyl)ether	14.67	1076	994611	52.66	ng/uL	100
15)	N-Nitroso-Di-n-propylamine	15.15	1136	423531M	46.93	ng/uL	
16)	Hexachloroethane	15.09	1128	388432	54.00	ng/uL	89
17)	*NAPHTHALENE-D8	17.46	1421	644848M	20.00	ng/uL	94
18)	Nitrobenzene-d5	15.37	1162	763195	54.06	ng/uL	91
19)	Nitrobenzene	15.44	1171	757504	54.11	ng/uL	92
20)	Isophorone	16.20	1265	1104013	45.66	ng/uL	
24)	bis(2-Chloroethoxy)methane	17.01	1365	811584	52.84	ng/uL	
26)	1,2,4-Trichlorobenzene	17.38	1411	521456M	57.93	ng/uL	97
27)	Naphthalene	17.52	1428	1108474	41.09	ng/uL	88
28)	4-Chloroaniline	17.82	1465	527711	50.11	ng/uL	99
29)	Hexachlorobutadiene	18.13	1504	295951M	55.83	ng/uL	84
31)	2-Methylnaphthalene	19.49	1672	735460	52.82	ng/uL	94
32)	Hexachlorocyclopentadiene	20.14	1752	164563	48.27	ng/uL	91
33)	*ACENAPHTENE-D10	22.30	2019	197078	20.00	ng/uL	97
35)	2-Chloronaphthalene	20.80	1833	666430	51.45	ng/uL	89
36)	2-Fluorobiphenyl	20.60	1809	714555	48.59	ng/uL	89
37)	Dimethylphthalate	21.82	1960	576208	48.36	ng/uL	94
38)	Acenaphthylene	21.90	1969	786222	42.49	ng/uL	94
39)	Acenaphthene	22.40	2031	524409	46.14	ng/uL	90
41)	4-Nitrophenol	22.40	2031	4519^	2.66	ng/uL	82
42)	2,4-Dinitrotoluene	22.95	2099	109320M	53.67	ng/uL	
43)	2,6-Dinitrotoluene	21.97	1978	115218M	51.26	ng/uL	
44)	2-Nitroaniline	21.19	1882	200995	50.60	ng/uL	82
45)	3-Nitroaniline	22.29	2017	79421	40.27	ng/uL	100
46)	4-Nitroaniline	24.10	2241	71445M	50.11	ng/uL	92
47)	Diethylphthalate	23.67	2188	450954	44.53	ng/uL	95
48)	Dibenzofuran	22.81	2082	614259	48.20	ng/uL	62
50)	4-Chlorophenyl-phenylether	23.76	2199	154866M	47.52	ng/uL	
51)	Fluorene	23.70	2192	368626	45.08	ng/uL	85
53)	N-Nitrosodiphenylamine	24.09	2240	198694	50.11	ng/uL	97
54)	*PHENANTHRENE-d10	26.09	2486	136221	20.00	ng/uL	
56)	4-Bromophenyl-phenylether	25.00	2352	65011M	49.54	ng/uL	
57)	Hexachlorobenzene	25.35	2395	66719M	50.09	ng/uL	
59)	Phenanthrene	26.15	2494	346154	42.39	ng/uL	98
60)	Anthracene	26.07	2508	314973	42.93	ng/uL	96

61)	Di-n-Butylphthalate	27.85	2704	389614	50.13	ng/uL	91
62)	Fluoranthene	29.21	2872	215956	47.43	ng/uL	87
64)	Pyrene	29.77	2941	190066	46.98	ng/uL	90
65)	Terphenyl-d14	30.27	3003	80713	50.61	ng/uL	85
66)	Butylbenzylphthalate	31.88	3202	70301	52.70	ng/uL	74
67)	*CHRYSENE-d12	33.69	3427	21215	20.00	ng/uL	100
68)	3,3'-Dichlorobenzidine	33.71	3429	6649M	58.23	ng/uL	96
69)	Benzo(a)Anthracene	33.64	3420	72028	54.01	ng/uL	96
70)	Bis(2-Ethylhexyl)Phthalate	34.41	3515	75625M	58.07	ng/uL	87
71)	Chrysene	33.80	3440	59445	45.85	ng/uL	98
72)	Di-n-octylphthalate	38.04	3966	73394M	59.97	ng/uL	96
73)	*PERYLENE-d12	42.67	4539	10090M	20.00	ng/uL	100
74)	Benzo(b)fluoranthene	39.70	4171	45619	50.92	ng/uL	89
75)	Benzo(k)Fluoranthene	39.87	4193	48087M	51.25	ng/uL	95
76)	Benzo(a)Pyrene	42.17	4478	40995M	48.83	ng/uL	98
77)	Indeno(1,2,3-cd)Pyrene	52.52	5762	26367	50.40	ng/uL	62
78)	Dibenzo(a,h)Anthracene	52.77	5793	26562M	46.36	ng/uL	100
79)	Benzo(g,h,i)Perylene	53.87	5928	24852M	43.18	ng/uL	53

* Compound is ISTD

Calibration Check Report

Title: HP ABN Standards for 5 point Calibration Curve Rev. E
Calibrated: 900623 15:32

Check Standard Data File: >PH528
Injection Time: 900628 13:34

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
Aniline	1.01904	1.07470	5.46	Average	
2-Fluorophenol	.78839	.78393	.56	Average	(Conc=100.00)
Phenol-d5	.86039	.83592	2.84	Average	(Conc=100.00)
Phenol	1.04126	1.06324	2.11	Average	
Benzyl alcohol	.39102	.39493	1.00	Average	
bis(2-Chloroethyl)Ether	.84212	.94327	12.01	Average	
2-Methylphenol	.79828	.74426	6.77	Average	
4-Methylphenol	.79639	.71152	10.66	Average	
2-Chlorophenol	.94754	.91858	3.06	Average	
1,3-Dichlorobenzene	.82408	.95188	15.51	Average	
1,4-Dichlorobenzene	.83530	.92307	10.51	Average	
1,2-Dichlorobenzene	.75589	.85331	12.89	Average	
Bis(2-Chloroisopropyl)ether	1.13713	1.19766	5.32	Average	
N-Nitroso-Di-n-propylamine	.54340	.50999	6.15	Average	
Hexachloroethane	.43310	.46773	8.00	Average	
Nitrobenzene-d5	.43789	.47341	8.11	Average	(Conc=50.00)
Nitrobenzene	.43420	.46988	8.22	Average	
Isophorone	.74984	.68482	8.67	Average	
2-Nitrophenol	.23597	.23967	1.57	Average	
2,4-Dimethylphenol	.46346	.51696	11.54	Average	
Benzoic acid	.19318	.15428	20.14	Average	
bis(2-Chloroethoxy)methane	.47639	.50343	5.67	Average	
2,4-Dichlorophenol	.29174	.33387	14.44	Average	
1,2,4-Trichlorobenzene	.27917	.32346	15.86	Average	
Naphthalene	.83662	.68759	17.81	Average	
4-Chloroaniline	.32664	.32734	.21	Average	
Hexachlorobutadiene	.16442	.18358	11.65	Average	
4-Chloro-3-methylphenol	.31135	.36128	16.04	Average	
2-Methylnaphthalene	.43187	.45621	5.63	Average	
Hexachlorocyclopentadiene	.10574	.10208	3.46	Average	
2,4,6-Trichlorophenol	.43349	.52289	20.62	Average	
2-Chloronaphthalene	1.31439	1.35262	2.91	Average	
2-Fluorobiphenyl	1.49253	1.45030	2.83	Average	(Conc=50.00)
Dimethylphthalate	1.20909	1.16950	3.27	Average	
Acenaphthylene	1.87765	1.59576	15.01	Average	
Acenaphthene	1.15329	1.06437	7.71	Average	
2,4-Dinitrophenol	.11634	.09494	18.40	Average	
4-Nitrophenol	.17209	.20806	20.90	Average	
2,4-Dinitrotoluene	.20670	.22189	7.35	Average	
2,6-Dinitrotoluene	.22812	.23385	2.51	Average	

RF - Response Factor from daily standard file at 50.00 ng/uL

$\overline{RF}$ - Average Response Factor from Initial Calibration

%Diff - % Difference from original average or curve

AR100285

AR100285

Calibration Check Report

Title: HP ABN Standards for 5 point Calibration Curve Rev. E
Calibrated: 900623 15:32

Check Standard Data File:)PH528
Injection Time: 900628 13:34

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
2-Nitroaniline	.40313	.40795	1.20	Average	
3-Nitroaniline	.20015	.16120	19.46	Average	
4-Nitroaniline	.14469	.14501	.22	Average	
Diethylphthalate	1.02772	.91528	10.94	Average	
Dibenzofuran	1.29334	1.24673	3.60	Average	
2,4,5-Trichlorophenol	.40333	.45635	13.14	Average	
4-Chlorophenyl-phenylether	.33075	.31432	4.97	Average	
Fluorene	.82987	.74818	9.84	Average	
4,6-Dinitro-2-methylphenol	.13776	.13935	1.16	Average	
N-Nitrosodiphenylamine	.40236	.40328	.23	Average	
2,4,6-Tribromophenol	.09372	.10372	10.67	Average	(Conc=100.00)
4-Bromophenyl-phenylether	.19266	.19090	.92	Average	
Hexachlorobenzene	.19555	.19591	.19	Average	
Pentachlorophenol	.11660	.11903	2.08	Average	
Phenanthrene	1.19901	1.01645	15.23	Average	
Anthracene	1.07727	.92489	14.15	Average	
Di-n-Butylphthalate	1.14118	1.14406	.25	Average	
Fluoranthene	.66843	.63413	5.13	Average	
Benzidine	.05699	-	-	Average	
Pyrene	.59397	.55811	6.04	Average	
Terphenyl-d14	.23413	.23701	1.23	Average	(Conc=50.00)
Butylbenzylphthalate	.19585	.20643	5.40	Average	
3,3'-Dichlorobenzidine	.10764	.12536	16.47	Average	
Benzo(a)Anthracene	1.25734	1.35806	8.01	Average	
Bis(2-Ethylhexyl)Phthalate	1.22769	1.42589	16.14	Average	
Chrysene	1.22216	1.12081	8.29	Average	
Di-n-octylphthalate	1.15383	1.38381	19.93	Average	
Benzo(b)fluoranthene	1.77589	1.80848	1.84	Average	
Benzo(k)Fluoranthene	1.85974	1.90632	2.51	Average	
Benzo(a)Pyrene	1.66418	1.62517	2.34	Average	
Indeno(1,2,3-cd)Pyrene	1.03702	1.04527	.80	Average	
Dibenzo(a,h)Anthracene	1.13567	1.05300	7.28	Average	
Benzo(g,h,i)Perylene	1.14072	.98521	13.63	Average	

RF - Response Factor from daily standard file at 50.00 ng/uL

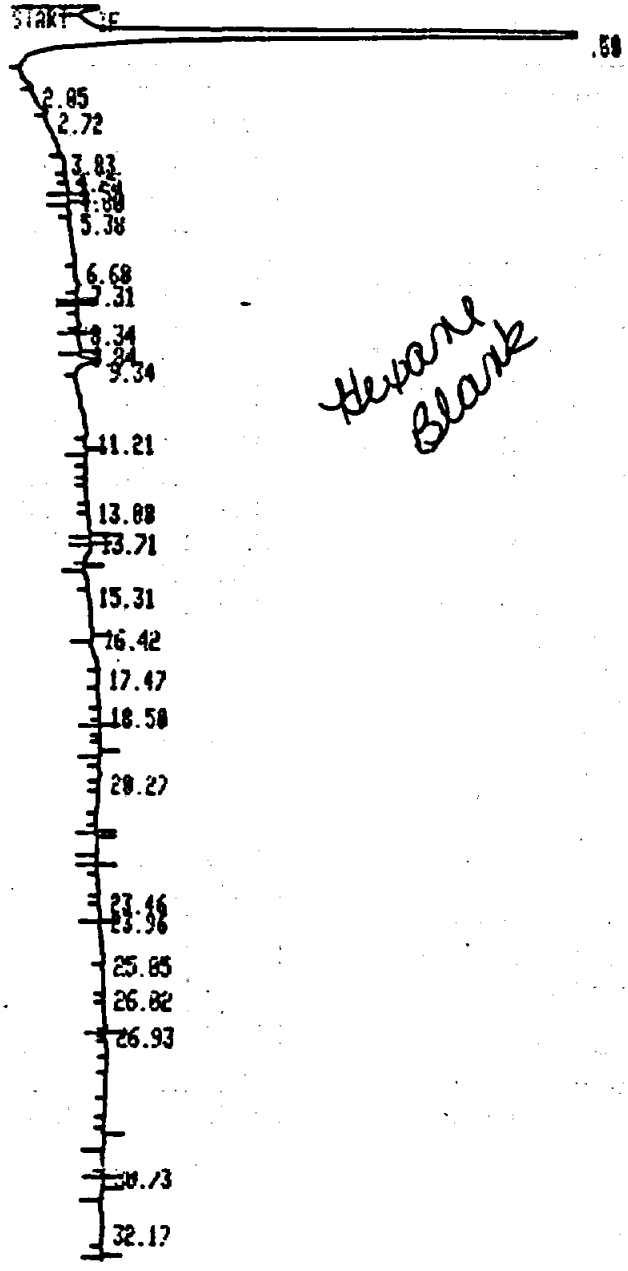
$\overline{RF}$ - Average Response Factor from Initial Calibration

%Diff - % Difference from original average or curve

AR100286

samples and bracketing standards

quantitative Column



Hexane Blank

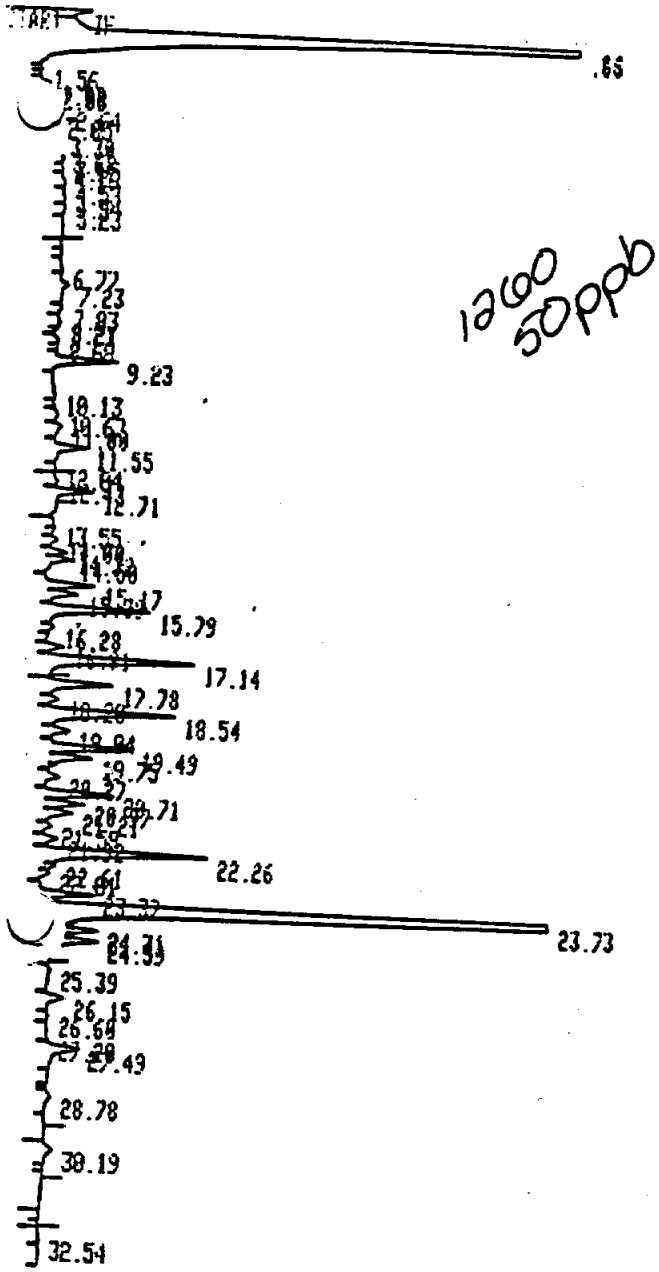
RUN # 1847 JUN/20/90 11:52:05
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 1

AR10026

AREA%

RT	AREA	TYPE	AR/HT	AREA%
9.34	366230	BB	3.151	50.678
11.21	356430	BB	.051	49.322

AR100287



1260
50ppb

JN # 1048
ORKFILE ID: B1
ORKFILE NAME:
MPLE # 2

JUN/28/90 12:28:36

AR100288

32.54

RUN # 1048 JUN/20/90 12:28:36
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 2

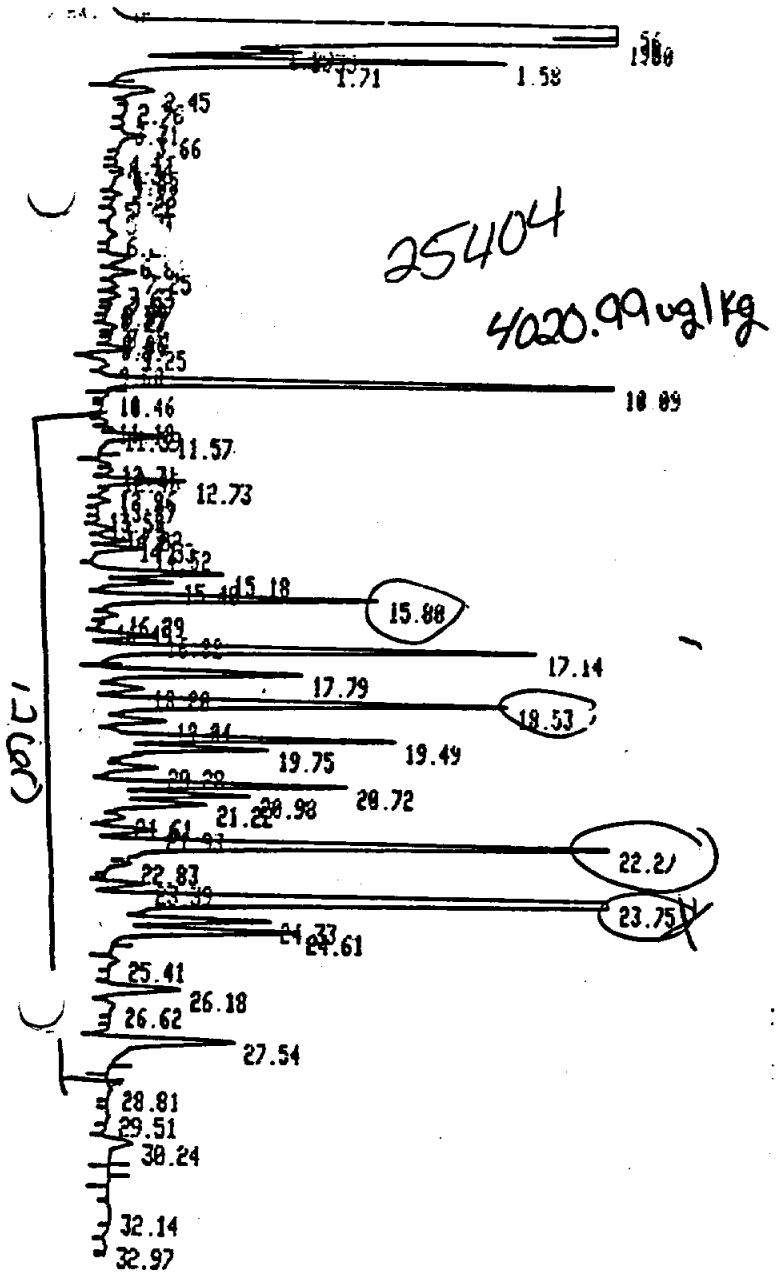
AREA%

RT	AREA	TYPE	AR/HT	AREA%
7.23	157390	BB	0.193	0.293
9.23	940500	VB	0.132	1.752
11.08	154160	BB	0.199	0.287
11.55	569470	BB	0.158	1.061
12.71	538060	BB	0.127	1.002
14.50	243550	BB	0.132	0.454
15.17	521360	BB	0.113	0.971
15.39	286840	BB	0.114	0.534
15.79	1653400	BB	0.147	3.080
16.81	240200	PB	0.126	0.448
17.14	2667200	BB	0.161	4.969
17.78	1074200	BB	0.150	2.001
18.54	2407000	BB	0.170	4.484
19.04	257850	BB	0.132	0.480
19.49	1066800	BB	0.126	1.987
19.75	419450	BB	0.113	0.781
20.27	216240	PB	0.150	0.403
20.71	908880	BB	0.127	1.693
20.97	373160	BB	0.113	0.695
21.21	313120	BB	0.134	0.583
21.92	227100	BB	0.143	0.423
22.26	2868500	BB	0.158	5.344
23.37	724240	BB	0.130	1.349
23.73	3.2531E+07	SPB	0.142	60.600
24.31	471190	BB	0.124	0.878
24.[illegible]	559220	BB	0.126	1.042
26.[illegible]	324190	BB	0.164	0.604
27.49	750850	BB	0.216	1.397
30.19	217040	PB	0.228	0.404

TOTAL AREA= 5.3681E+07
MUL FACTOR= 1.0000E+00 6928900

AR100289

AR100289



25404

4020.99 ug/kg

RUN # 1049 JUN/20/90 13:05:09
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 3

AR100290

RUN # 1049 JUN/20/90 13:05:09
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 3

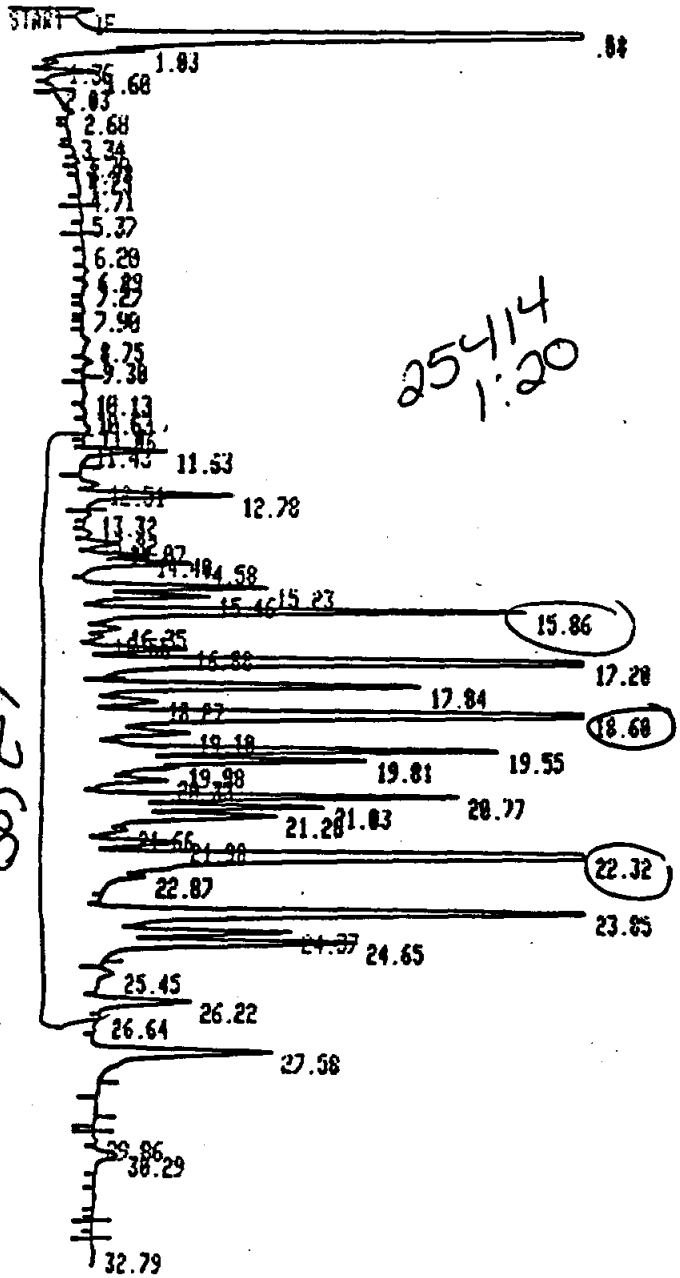
AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.56	6.2050E+07	↑SBB	0.142	34.221
0.95	415660	BB	0.060	0.229
1.35	482430	BB	0.078	0.266
1.58	2538809	BB	0.081	1.399
2.45	789180	PB	0.176	0.435
3.66	459950	BB	0.153	0.254
6.86	424600	PB	0.171	0.234
7.25	361230	BB	0.126	0.199
7.87	168050	BB	0.132	0.093
9.25	492220	BB	0.130	0.272
9.68	369180	BB	0.239	0.204
10.09	1.2712E+07	BB	0.106	7.011
11.57	795220	BB	0.122	0.439
12.73	1089800	BB	0.120	0.601
13.27	156810	BB	0.112	0.087
14.02	224670	BB	0.113	0.124
14.33	316990	BB	0.101	0.175
14.52	615330	BB	0.119	0.339
15.18	1404200	BB	0.109	0.774
15.49	793260	BB	0.115	0.438
15.80	4701000	BB	0.148	2.593
16.29	171100	BB	0.110	0.094
16.82	800630	BB	0.125	0.442
17.14	7910300	BB	0.159	4.363
17.79	3279700	PB	0.146	1.809
18.20	532880	BB	0.141	0.294
18.53	7497100	BB	0.166	4.135
19.04	744140	BB	0.130	0.410
19.49	3751900	BB	0.126	2.069
19.75	1580300	BB	0.112	0.872
20.23	644570	PB	0.128	0.356
20.72	3229000	BB	0.126	1.781
20.98	1424200	BB	0.113	0.786
21.22	1128400	BB	0.135	0.622
21.61	231470	BB	0.126	0.128
21.93	797360	BB	0.140	0.440
22.27	1.1310E+07	BB	0.172	6.237
23.39	586280	PB	0.122	0.323
23.75	3.3696E+07	SPB	0.150	18.583
24.33	1844700	BB	0.125	1.017
24.61	2551700	BB	0.139	1.407
26.18	1469200	VB	0.171	0.810
26.62	215950	BB	0.213	0.119
27.54	3706500	PB	0.237	2.044
30.24	862190	PB	0.261	0.476

TOTAL AREA= 1.8132E+08
NUL FACTOR= 1.0000E+00

27.59	1.0145E+07	BB	0.246	3.924
30.31	1411800	VB	0.255	0.546

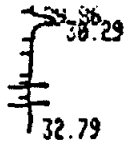
TOTAL AREA= 2.5854E+08
MUL FACTOR= 1.0000E+00



RUN # 1053 JUN/20/90 15:31:42
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 7

AREA%

AR100292

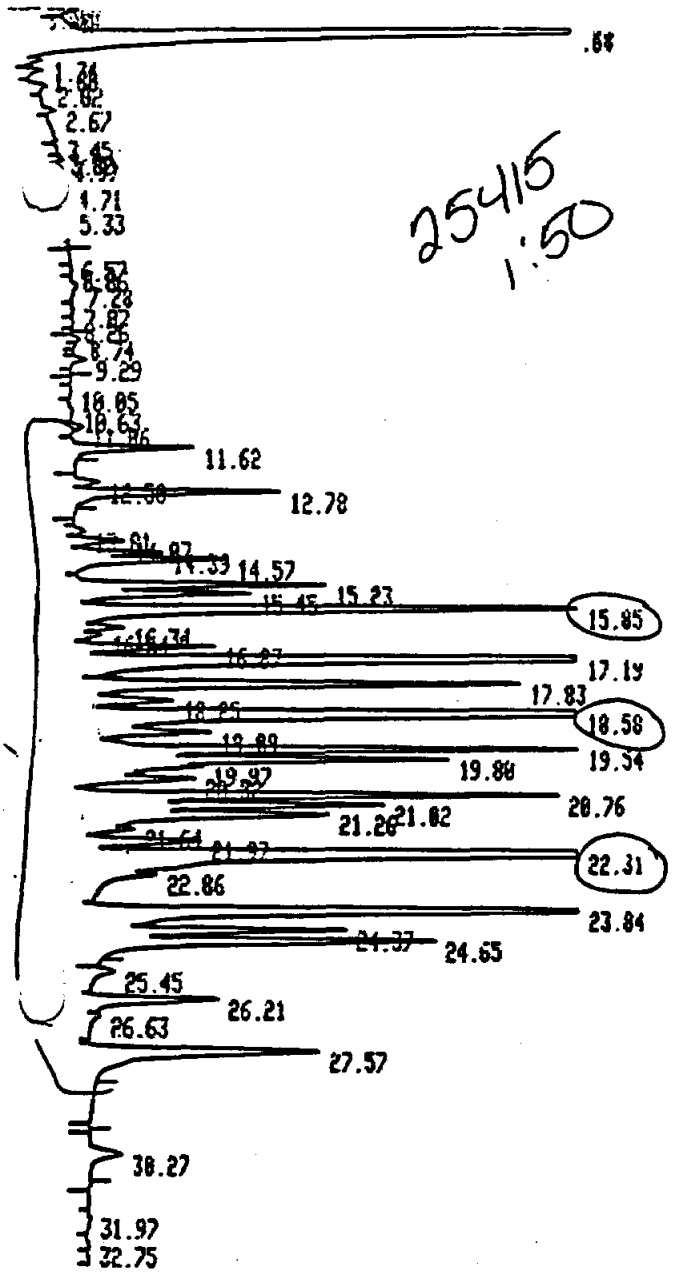


RUN # 1053 JUN/20/90 15:31:42
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 7

AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.60	685920	BB	0.116	0.583
2.68	173760	PB	0.164	0.148
8.75	178220	PB	0.233	0.151
11.06	169870	BB	0.245	0.144
11.63	1318100	BB	0.138	1.119
12.51	173110	PB	0.112	0.147
12.78	2287400	BB	0.138	1.943
14.07	443230	BB	0.122	0.376
14.40	408890	BB	0.090	0.347
14.58	1011100	BB	0.108	0.859
15.23	1879600	BB	0.106	1.596
15.46	1240500	BB	0.114	1.054
15.86	7654600	BB	0.156	6.501
16.35	253930	BB	0.107	0.216
16.88	1294200	BB	0.126	1.099
17.20	1.4114E+07	BB	0.164	11.986
17.84	5365700	PB	0.151	4.557
18.27	784640	BB	0.142	0.666
18.60	1.4403E+07	BB	0.173	12.232
19.18	932870	BB	0.127	0.792
19.55	5021700	BB	0.126	4.265
19.81	2540500	BB	0.114	2.158
20.33	658790	PB	0.111	0.560
20.77	4760100	BB	0.127	4.043
21.03	2099300	BB	0.113	1.783
21.28	2028400	BB	0.142	1.723
21.66	158230	BB	0.104	0.134
21.98	1242100	BB	0.141	1.055
22.32	1.9742E+07	BB	0.176	16.766
23.85	1.1369E+07	PB	0.183	9.655
24.37	2184200	BB	0.126	1.855
24.65	3546900	BB	0.143	3.012
25.45	301340	BB	0.180	0.256
26.22	1819900	BB	0.168	1.546
27.58	4885600	BB	0.242	4.149
30.29	620980	BB	0.235	0.527

TOTAL AREA= 1.1775E+08
MUL FACTOR= 1.0000E+00



RUN # 1054 JUN/20/90 16:08:24
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 8

AR100294

31.97
32.75

RUN # 1054 JUN/20/90 16:08:24
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 8

AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.60	233960	BB	0.124	0.153
2.92	201790	BB	0.140	0.132
3.45	209340	BB	0.337	0.137
4.71	317250	BB	2.342	0.208
7.28	184940	BB	0.246	0.121
9.29	191100	VB	0.125	0.125
11.06	235900	BB	0.166	0.155
11.62	1868600	BB	0.137	1.225
12.50	256610	PB	0.116	0.168
12.78	3147500	BB	0.140	2.063
14.07	619990	BB	0.123	0.406
14.39	551600	BB	0.088	0.362
14.57	1421300	BB	0.109	0.932
15.23	2502900	BB	0.185	1.640
15.45	1695800	BB	0.115	1.111
15.85	1.0180E+07	BB	0.157	6.672
16.34	337930	BB	0.107	0.222
16.87	1749700	BB	0.127	1.147
17.19	1.8382E+07	BB	0.166	12.047
17.83	7085300	BB	0.150	4.644
18.25	1057300	BB	0.144	0.693
18.58	1.8897E+07	BB	0.176	12.385
19.09	1182000	BB	0.127	0.775
19.54	6409300	BB	0.125	4.201
19.80	3319700	BB	0.114	2.176
20.32	1152300	VB	0.130	0.755
20.76	6126500	BB	0.128	4.015
21.02	2671700	BB	0.115	1.751
21.26	2650800	BB	0.143	1.737
21.64	208160	BB	0.186	0.136
21.97	1589200	BB	0.143	1.042
22.31	2.5414E+07	BB	0.179	16.656
23.94	1.3109E+07	BB	0.178	8.591
24.37	2776200	BB	0.126	1.820
24.65	4726600	BB	0.145	3.098
25.45	378890	BB	0.177	0.248
26.21	2367000	BB	0.168	1.551
27.57	6196600	PB	0.241	4.061
30.27	977160	BB	0.273	0.640

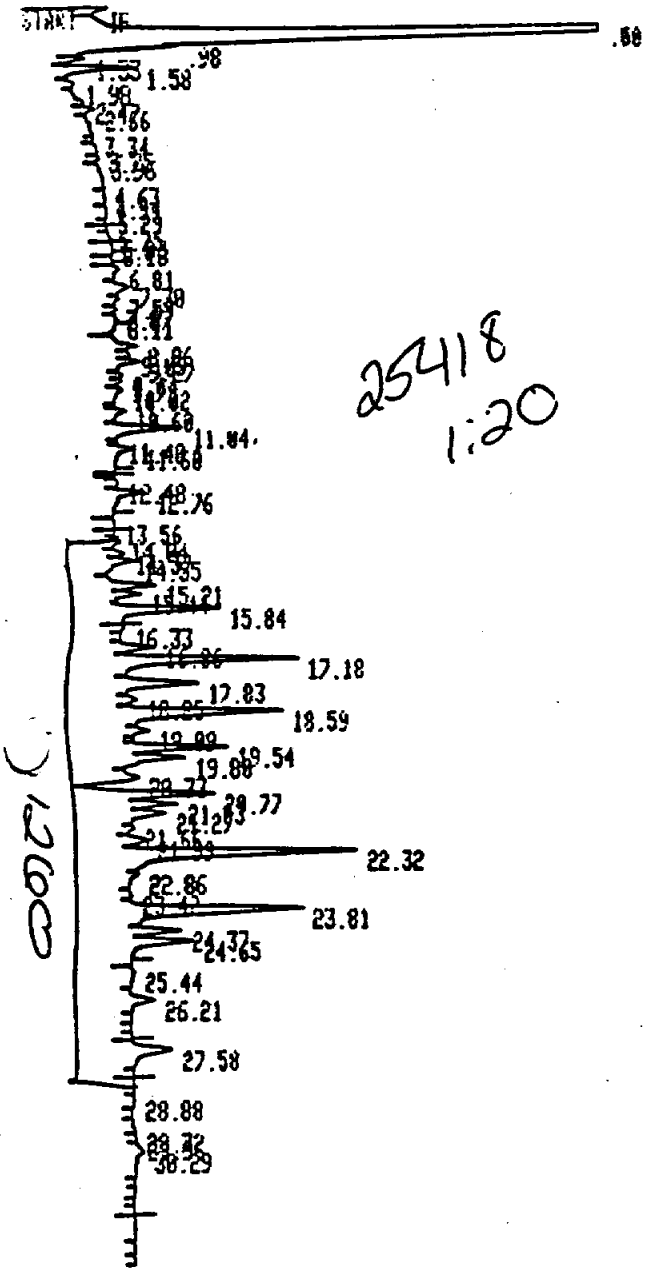
TOTAL AREA= 1.5258E+08
MUL FACTOR= 1.0000E+00

AR10029

AR100295

30.31	1.3774E+07	BB	0.288	0.370
32.97	164490	I VP	0.256	0.012

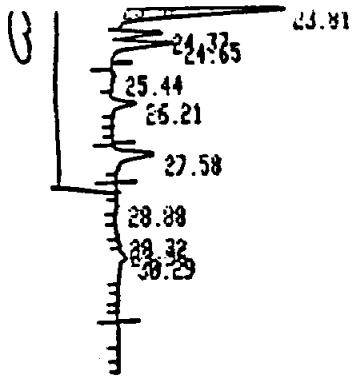
TOTAL AREA= 1.4085E+09
MUL FACTOR= 1.0000E+00



25418
1:20

RUN # 1056 JUN/20/90 17:21:58
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 10

AR100296



RUN # 1056 JUN/20/90 17:21:58
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 10

AREA%

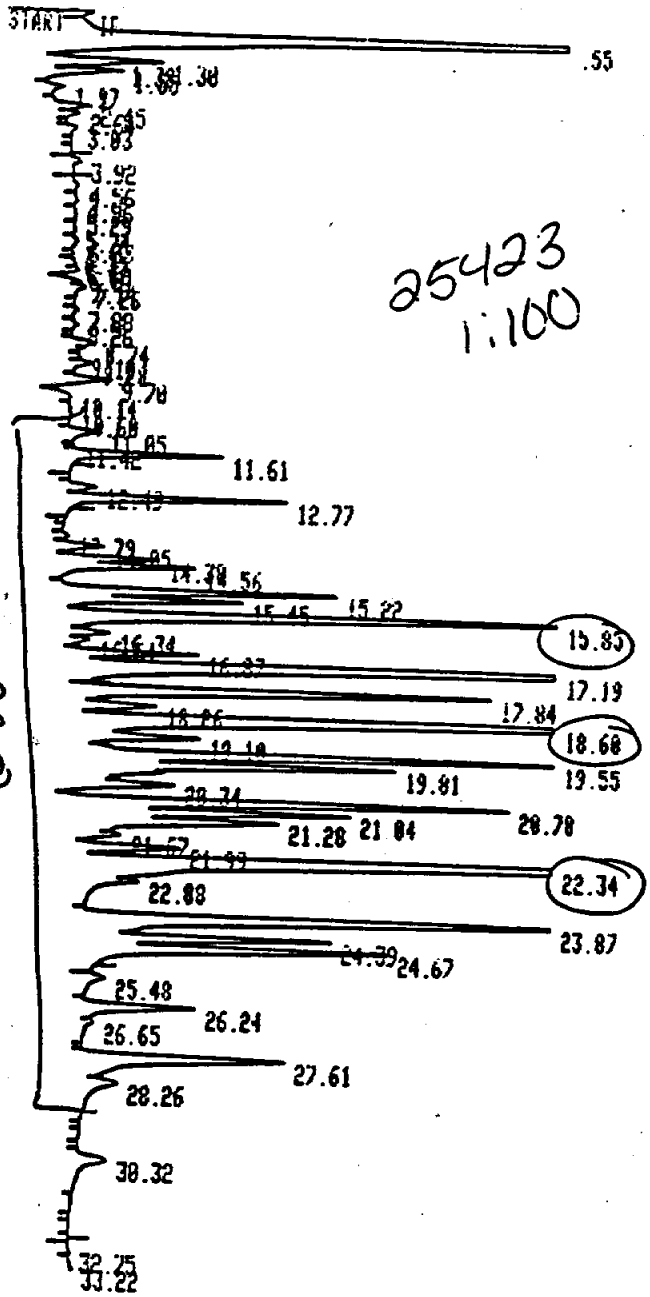
RT	AREA	TYPE	AR/HT	AREA%
0.98	154610	D BB	0.165	0.480
1.58	967390	BB	0.118	3.000
4.63	225980	BB	1.125	0.701
7.30	245280	BB	0.161	0.761
8.86	198960	PB	0.110	0.617
9.27	154220	BB	0.093	0.478
10.60	182420	PB	0.131	0.566
11.04	1108100	BB	0.146	3.436
11.60	267850	BB	0.130	0.831
12.76	525120	BB	0.148	1.628
14.55	314800	BB	0.153	0.976
15.21	514090	BB	0.116	1.594
15.44	258780	BB	0.107	0.803
15.84	1753300	BB	0.153	5.437
16.86	464710	PB	0.127	1.441
17.18	3108400	BB	0.159	9.639
17.83	1329200	BB	0.163	4.122
18.25	161810	BB	0.139	0.502
18.53	2980200	BB	0.173	9.242
19.09	186930	BB	0.121	0.580
19.54	1267400	PB	0.125	3.930
19.80	803650	BB	0.149	2.492
20.33	1002800	BB	0.233	3.110
20.77	1611800	BB	0.147	4.998
21.03	465870	BB	0.113	1.445
21.27	403620	BB	0.135	1.252
21.99	294220	BB	0.150	0.912
22.32	4501300	BB	0.178	13.959
23.81	3785800	BB	0.197	11.740
24.37	575540	BB	0.126	1.785
24.65	830320	BB	0.138	2.575
26.21	444490	BB	0.172	1.378
27.58	952890	BB	0.220	2.955
30.29	205290	BB	0.256	0.637

TOTAL AREA= 3.2247E+07
MUL FACTOR= 1.0000E+00

AR10029

AR100297

MUL FACTOR= 1.0000E+00



25423
1:100

1200

RUN # 1861
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 15

JUN/20/90 20:26:23

AR100298

30.32

32.25
33.22

RUN # 1061 JUN/20/90 20:26:23
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 15

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.55	3.0535E+07	SBB	0.170	17.669
1.30	594650	BB	0.084	0.344
1.55	852280	BB	0.116	0.493
1.97	263100	BB	0.139	0.152
2.45	282170	BB	0.091	0.163
3.92	174820	PB	0.166	0.101
6.81	171760	BB	0.131	0.099
9.28	196680	BB	0.114	0.114
9.70	939370	BB	0.166	0.544
10.14	169340	BB	0.220	0.098
11.05	535250	PB	0.154	0.310
11.61	2171600	BB	0.128	1.257
12.49	280150	PB	0.112	0.162
12.77	3130200	BB	0.130	1.811
14.05	585260	BB	0.129	0.339
14.38	722480	BB	0.094	0.418
14.56	1152200	BB	0.104	0.667
15.22	2840600	BB	0.107	1.644
15.45	1677400	BB	0.110	0.971
15.85	1.0064E+07	BB	0.153	5.824
16.34	342050	BB	0.109	0.198
16.87	1538300	BB	0.122	0.890
17.19	1.7214E+07	BB	0.167	9.961
17.84	.6993600	PB	0.153	4.047
18.26	1010500	BB	0.143	0.585
18.60	1.6271E+07	BB	0.176	9.415
19.19	1263300	BB	0.128	0.731
19.55	6319900	BB	0.127	3.657
19.81	2967900	BB	0.115	1.717
20.34	1192700	PB	0.136	0.690
20.78	5767500	BB	0.130	3.337
21.04	2440900	BB	0.114	1.412
21.28	2012200	BB	0.138	1.164
21.67	243170	BB	0.111	0.141
21.99	1441200	BB	0.143	0.834
22.34	2.2214E+07	BB	0.179	12.854
23.87	1.0499E+07	BB	0.177	6.075
24.39	2741500	BB	0.126	1.586
24.67	4154600	BB	0.145	2.404
25.48	341560	BB	0.192	0.198
26.24	2072600	BB	0.169	1.199
27.61	4937600	PB	0.221	2.857
28.26	478900	BB	0.192	0.277
30.32	1022300	VB	0.293	0.592

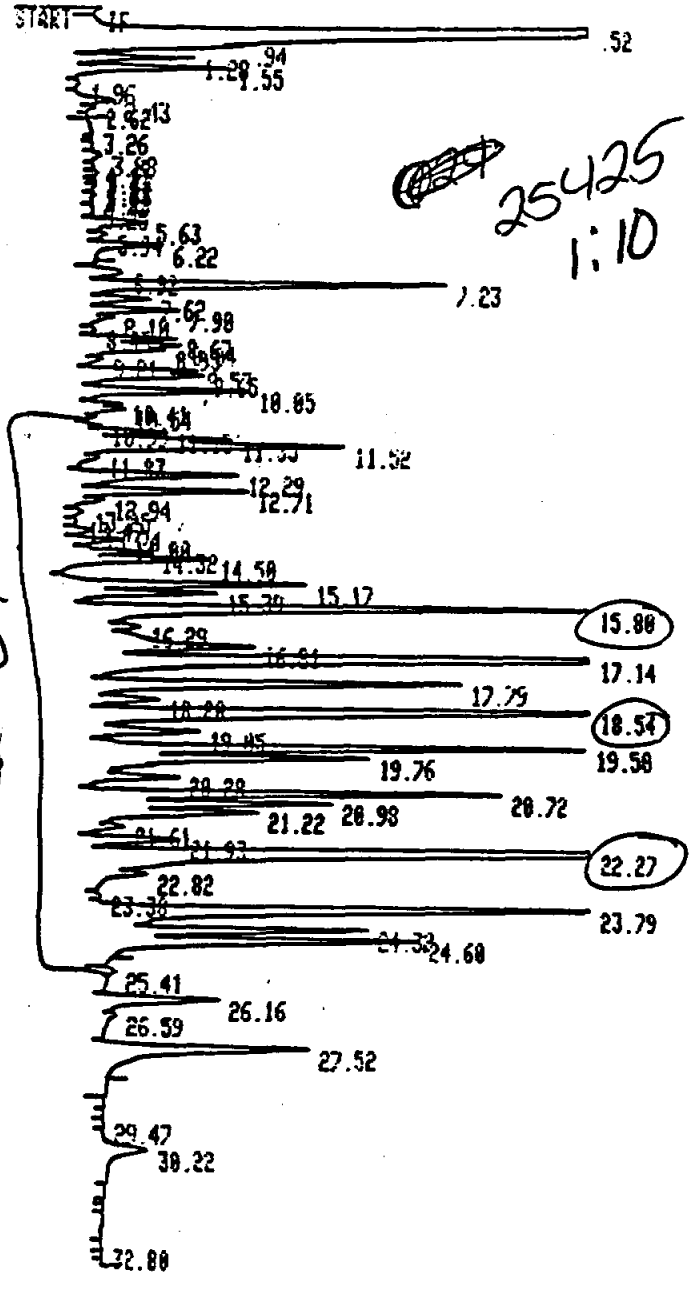
TOTAL AREA= 1.7282E+08
MUL FACTOR= 1.0000E+00

AR100

AR100299

27.63	2.8019E+07	BB	0.223	3.318
30.34	5628200	BB	0.237	0.667
33.01	170470 I	PP	0.263	0.020

TOTAL AREA= 8.4439E+08
MUL FACTOR= 1.0000E+00



25425
1:10

RUN # 1063 JUN/20/90 21:39:56
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 17

AR100300

RUN # 1063 JUN/20/90 21:39:56
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 17

AREA%

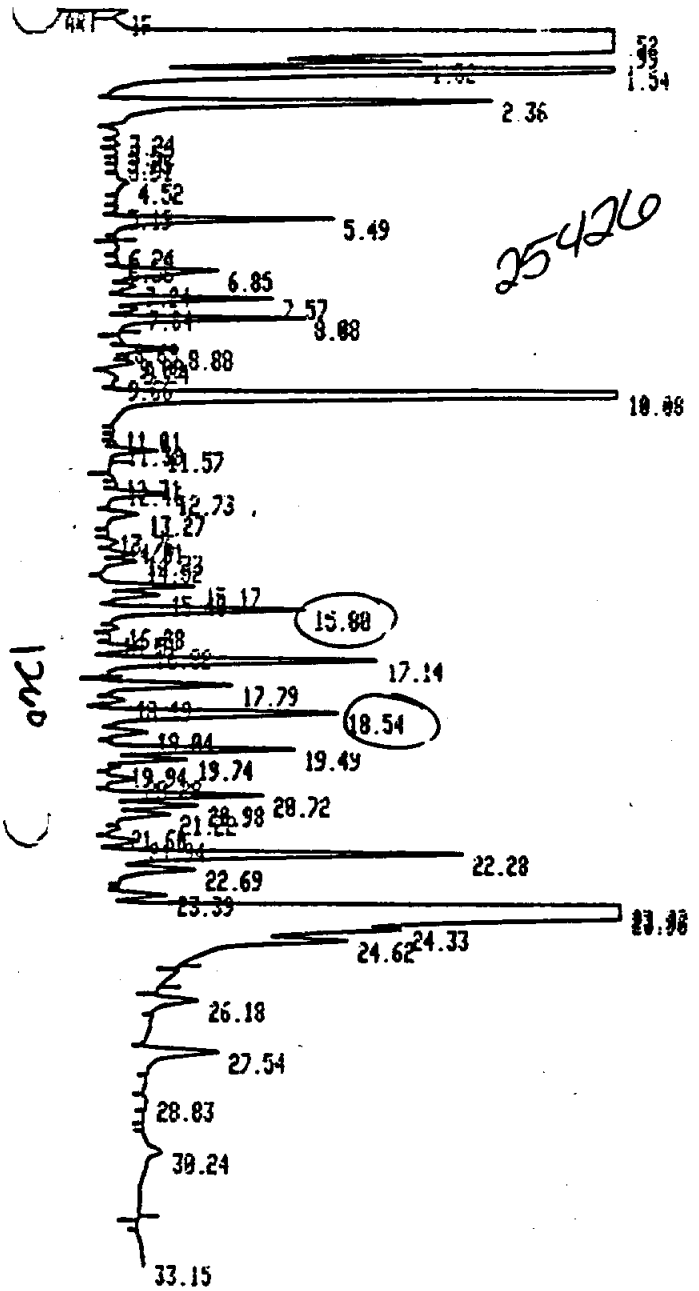
RT	AREA	TYPE	AR/HT	AREA%
0.52	5.1865E+07	SBB	0.122	25.662
0.94	401110	BB	0.159	0.199
1.28	1089200	BB	0.094	0.539
1.55	2162400	BB	0.131	1.070
2.43	306530	BB	0.101	0.152
5.63	862200	BB	0.150	0.427
6.22	956450	BB	0.126	0.473
6.92	484120	PB	0.172	0.240
7.23	5373200	BB	0.136	2.659
7.62	659680	BB	0.117	0.326
7.90	939820	BB	0.110	0.465
8.67	609200	BB	0.088	0.301
8.84	295740	BB	0.076	0.146
9.53	309870	BB	0.062	0.153
9.65	253780	BB	0.052	0.126
10.05	2384700	BB	0.132	1.180
10.54	189860	BB	0.087	0.094
11.15	672020	BB	0.099	0.333
11.35	583930	BB	0.080	0.289
11.52	2418500	BB	0.119	1.197
12.29	2720000	BB	0.154	1.346
12.71	2098300	BB	0.119	1.038
12.94	161260	BB	0.096	0.080
13.74	234920	BB	0.111	0.116
14.00	562900	BB	0.112	0.279
14.32	504850	BB	0.089	0.250
14.50	1452500	BB	0.113	0.719
15.17	2792900	BB	0.117	1.382
15.39	1459100	BB	0.113	0.722
15.80	8845100	BB	0.156	4.376
16.29	236390	BB	0.105	0.117
16.81	2618900	BB	0.185	1.296
17.14	1.4444E+07	BB	0.171	7.147
17.79	6258300	BB	0.153	3.096
18.20	856260	BB	0.140	0.424
18.54	1.3005E+07	BB	0.173	6.435
19.05	1379900	BB	0.132	0.683
19.50	6446200	BB	0.127	3.189
19.76	2712300	BB	0.116	1.342
20.28	979130	PB	0.121	0.485
20.72	5526400	BB	0.128	2.734
20.98	2298800	BB	0.115	1.137
21.22	1609400	BB	0.125	0.796
21.61	302970	BB	0.116	0.150
21.93	1375700	BB	0.142	0.681
22.27	2.0237E+07	BB	0.176	10.013
23.79	1.1092E+07	BB	0.187	5.488
24.32	3122300	BB	0.129	1.545
24.60	4324700	BB	0.142	2.140
25.41	278240	BB	0.231	0.138
26.16	2163200	BB	0.168	1.070
27.52	5689800	BB	0.242	2.815
30.22	1506500	BB	0.307	0.745

TOTAL AREA= 2.0211E+08
MUL FACTOR= 1.0000E+00

AR1003

AR100301

TOTAL AREA= 2.0211E+08
MUL FACTOR= 1.0000E+00



25426

BIN # 1964 BIN/28/98 22:16:31

AR100302

33.15

RUN # 1064 JUN/20/90 22:16:31
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 18

AREA%

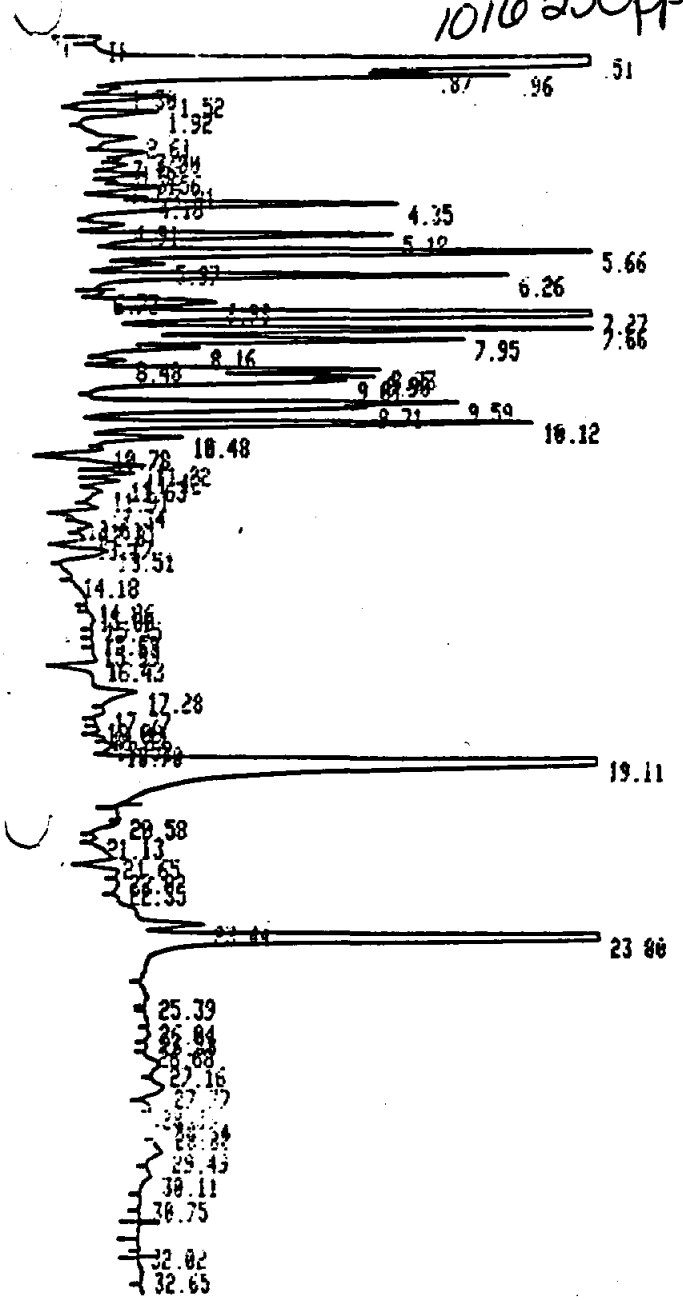
RT	AREA	TYPE	AR/HT	AREA%
0.52	9.8728E+07	†SBB	0.230	41.530
0.99	1.0661E+07	SPB	0.106	4.485
1.32	1803800	BB	0.096	0.759
1.54	1.7369E+07	SPB	0.133	7.307
2.36	8641000	BB	0.196	3.635
3.24	192220	BB	0.212	0.081
4.52	271280	PB	0.207	0.114
5.49	3311300	BB	0.132	1.393
6.85	1830300	BB	0.162	0.770
7.24	195320	BB	0.122	0.082
7.57	1950700	BB	0.114	0.821
8.08	2556500	BB	0.121	1.076
8.88	682940	BB	0.108	0.287
9.24	197240	BB	0.112	0.083
9.66	227100	BB	0.220	0.096
10.08	4.7199E+07	SPB	0.125	19.856
11.57	588940	BB	0.120	0.248
12.73	810700	BB	0.129	0.341
13.27	550450	BB	0.154	0.232
14.33	264250	BB	0.098	0.111
14.52	362670	BB	0.124	0.153
15.17	999280	BB	0.111	0.420
15.40	534700	BB	0.113	0.225
15.80	3274300	BB	0.147	1.377
16.82	588710	BB	0.135	0.248
17.14	5004600	BB	0.161	2.105
17.79	2241900	PB	0.152	0.943
18.19	329370	BB	0.131	0.139
18.54	4728700	BB	0.175	1.989
19.04	550450	BB	0.134	0.232
19.49	2441600	BB	0.124	1.027
19.74	771890	BB	0.109	0.325
20.28	399310	BB	0.130	0.168
20.72	2069600	BB	0.127	0.871
20.98	876230	BB	0.114	0.369
21.22	598620	BB	0.124	0.252
21.94	483650	BB	0.142	0.204
22.26	6317400	BB	0.162	2.658
22.69	1005700	BB	0.139	0.423
23.39	643800	PB	0.125	0.271
23.77	204690	SPB	0.083	0.086
24.33	589390	BB	0.111	0.248
24.62	428320	BB	0.044	0.180
26.18	864410	BB	0.176	0.364
27.54	1902100	PB	0.219	0.800
30.24	1055700	VB	0.459	0.444
33.15	417500	I PH	0.701	0.176

TOTAL AREA = [illegible]

AR100305

AR100303

1016 250ppb



RUN # 1071 JUN/21/90 02:33:57
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 25

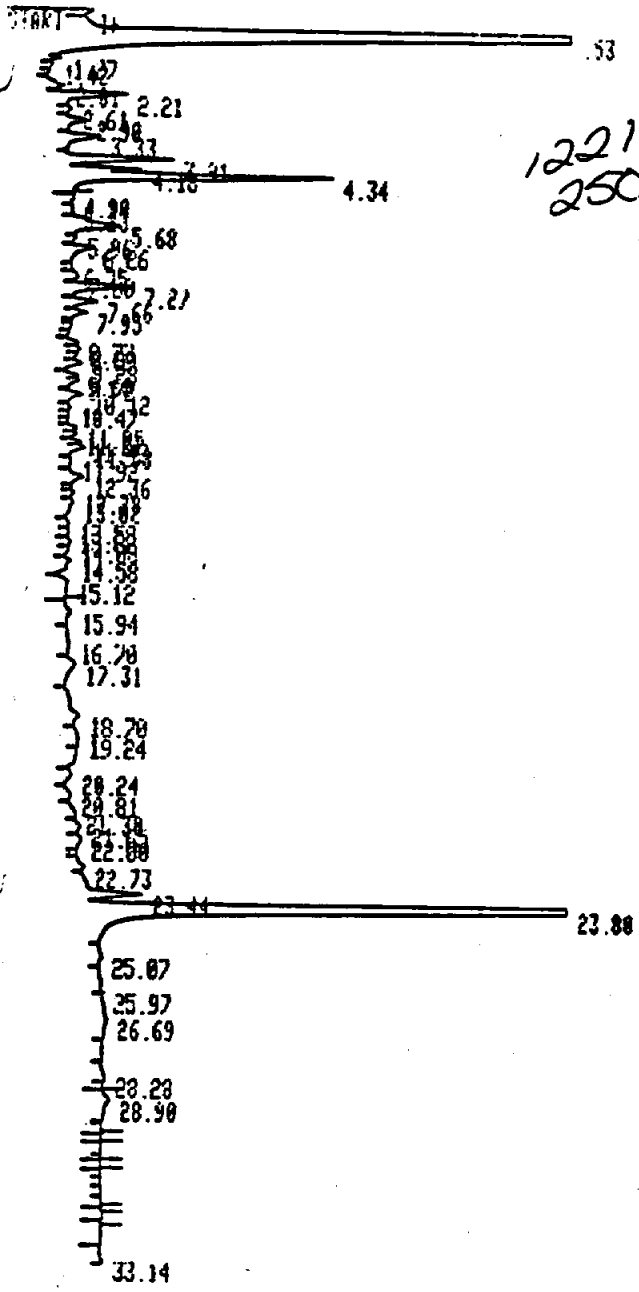
AR100304

RT	AREA	TYPE	AR/HT	AREA%
0.51	6.9603E+07	↑SBB	0.156	31.678
0.87	260110	BB	0.048	0.118
0.96	1053700	BB	0.054	0.480
1.30	229290	BB	0.108	0.104
1.52	1150000	BB	0.123	0.523
1.92	1364000	BB	0.141	0 621
2.61	992570	BB	0.183	0.452
3.00	488260	BB	0.112	0.222
3.32	201250	BB	0.099	0.092
3.56	501700	BB	0.104	0.228
3.91	684630	BB	0.115	0.312
4.18	241060	BB	0.073	0.110
4.35	4762700	BB	0.153	2.168
4.91	518750	BB	0.124	0.236
5.18	5147400	BB	0.152	2.343
5.66	8721100	BB	0.157	3.969
5.97	643200	BB	0.1[illegible]	0.293
6.26	6122700	BB	0.1[illegible]	2.787
6.98	1987300	BB	0.165	0.905
7.27	1.8073E+07	BB	0.144	8.226
7.66	6542300	BB	0.124	2.978
7.95	3809100	BB	0.110	1.734
8.16	749940	BB	0.100	0.341
8.48	319700	BB	0.093	0.146
8.73	2088500	BB	0.092	0.951
8.90	758250	BB	0.074	0.345
9.59	350710	BB	0.018	0.160
10.12	6864300	BB	0.139	3.124
10.48	1091600	BB	0.119	0.497
10.78	393810	BB	0.160	0.179
11.22	1366400	BB	0.172	0.622
11.42	532170	BB	0.103	0.242
11.63	368990	BB	0.107	0.168
11.91	273820	BB	0.174	0.125
12.34	436930	BB	0.135	0.199
12.81	272860	BB	0.163	0.124
13.17	352860	BB	0.178	0.161
13.51	1364900	BB	0.247	0.621
14.86	273990	BB	0.675	0.125
16.43	913290	BB	0.261	0.416
17.28	2727300	BB	0.471	1.241
18.70	150670	BB	0.122	0.069
19.11	2.8539E+07	BB	0.312	12.989
21.65	1040800	BB	0.316	0.474
22.02	436420	BB	0.201	0.199
23.44	772960	BB	0.127	0.352
23.80	3.2617E+07	SPB	0.138	14.845
27.16	357130	BB	0.236	0.163
27.77	649050	BB	0.323	0.295
29.49	348720	BB	0.273	0.159
30.11	210920	BB	0.274	0.096

TOTAL AREA= 2.1972E+08
MUL FACTOR= 1.0000E+00

AR100305

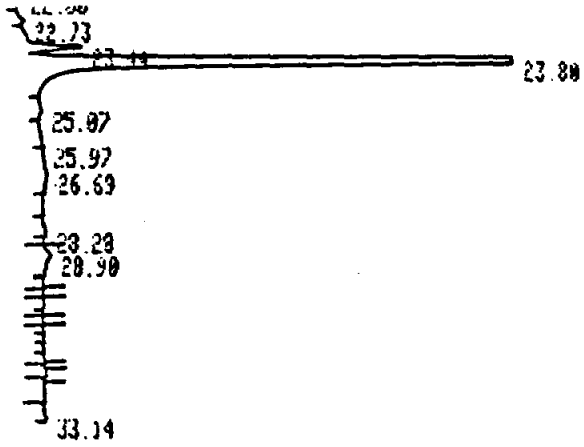
MUL FACTOR= 1.0000E+00



1221
250ppb

RUN # 1072 JUN/21/90 03:10:47
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 26

AR100306



RUN # 1072 JUN/21/90 03:10:47
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 26

AREA%

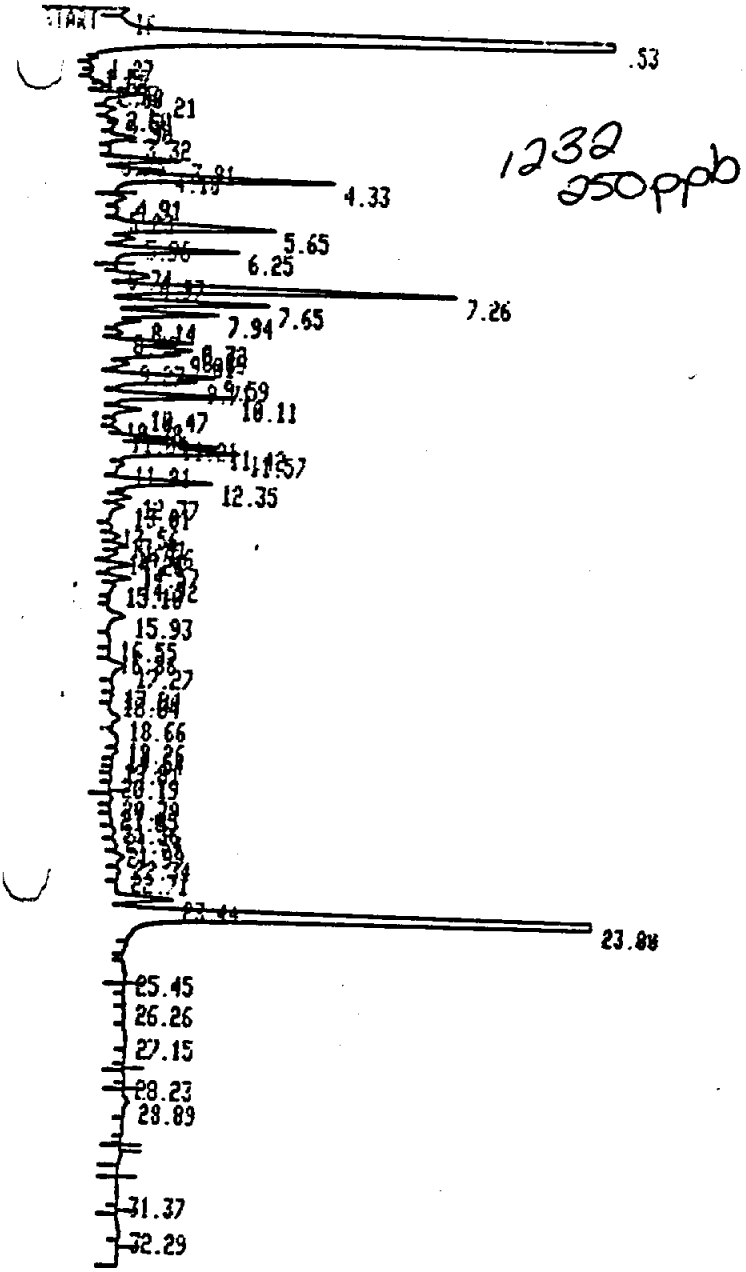
RT	AREA	TYPE	AR/HT	AREA%
0.53	5.0382E+07	SBB	0.154	52.280
2.01	159140	PB	0.126	0.165
2.21	1082300	BB	0.138	1.123
2.90	273630	BB	0.130	0.284
3.33	534340	BB	0.146	0.555
3.91	1382500	BB	0.123	1.435
4.18	326370	BB	0.077	0.339
4.34	2925600	BB	0.117	3.036
5.68	1024600	BB	0.193	1.063
6.26	344040	BB	0.148	0.357
7.27	943200	BB	0.138	0.979
7.66	333560	BB	0.122	0.346
7.95	167070	BB	0.110	0.173
9.28	186160	VB	0.131	0.193
10.12	226910	BB	0.139	0.236
12.36	200590	BB	0.138	0.208
14.58	323790	VB	0.310	0.336
15.12	313940	BB	0.313	0.326
16.70	151940	BB	0.523	0.158
17.31	369900	BB	0.362	0.384
18.70	359170	BB	0.393	0.373
23.44	596790	BB	0.112	0.619
23.80	3.3322E+07	SPB	0.141	34.577
26.69	246240	BB	0.619	0.256
28.90	193350	BB	0.300	0.201

TOTAL AREA= 9.6369E+07
MUL FACTOR= 1.0000E+00

AR10030

AR100307

TOTAL AREA= 9.6369E+07
MUL FACTOR= 1.0000E+00



1232
250ppb

RUN # 1073
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 27

JUN/21/90 03:47:41

AR100308

31.37
32.29

RUN # 1073 JUN/21/90 03:47:41
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 27

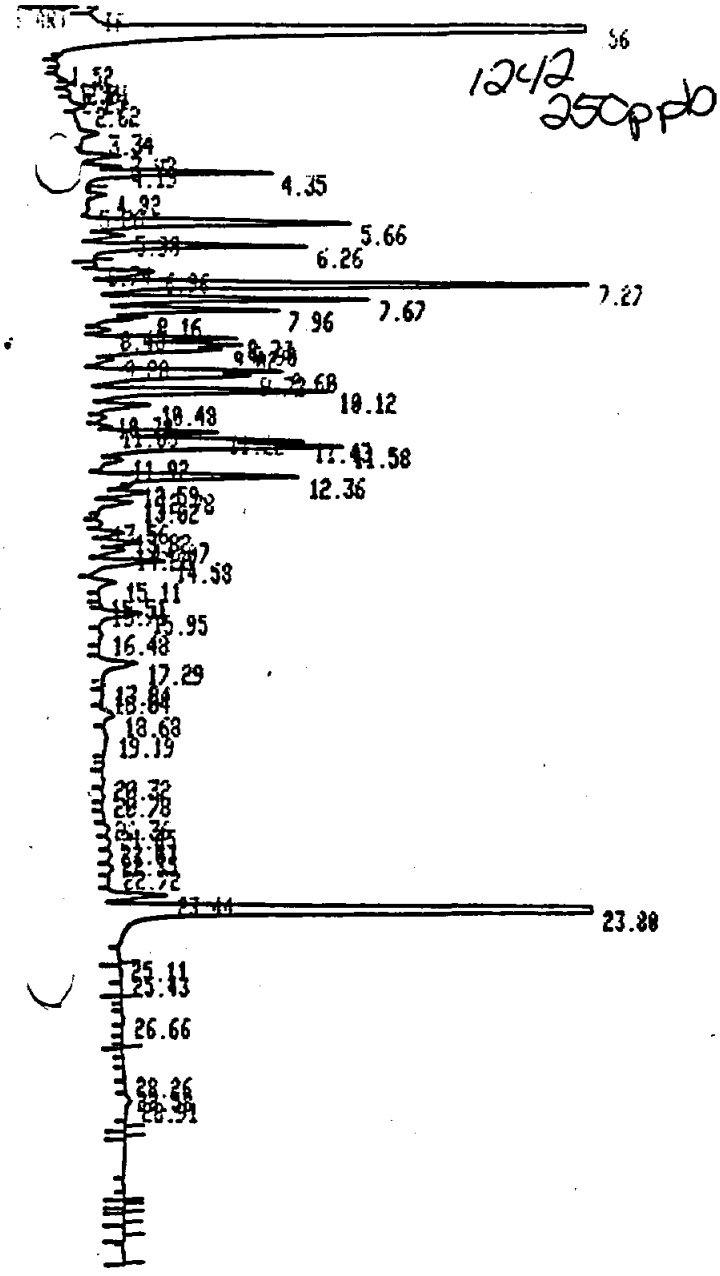
AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.53	4.7585E+07	SBB	0.161	43.464
2.21	579480	BB	0.127	0.529
3.32	370030	PB	0.129	0.338
3.91	893840	BB	0.116	0.816
4.18	241260	BB	0.073	0.220
4.33	2522400	BB	0.115	2.304
5.65	2879100	BB	0.163	2.630
5.96	160160	BB	0.101	0.146
6.25	1795400	BB	0.129	1.640
6.97	575960	BB	0.164	0.526
7.26	5350500	BB	0.140	4.887
7.65	1957400	BB	0.121	1.788
7.94	1066600	BB	0.108	0.974
8.72	556620	BB	0.089	0.508
8.89	245970	BB	0.075	0.225
9.59	446470	BB	0.075	0.408
10.11	1769500	BB	0.133	1.616
10.47	362960	BB	0.121	0.332
11.21	498870	BB	0.099	0.456
11.42	475400	BB	0.081	0.434
11.57	689120	BB	0.091	0.629
12.35	1321900	BB	0.127	1.208
12.77	181290	PB	0.106	0.166
13.01	213300	BB	0.157	0.195
14.06	166460	BB	0.109	0.152
14.57	388070	BB	0.130	0.355
14.92	240560	BB	0.103	0.220
15.93	380760	PB	0.198	0.348
17.27	451040	BB	0.234	0.412
18.66	203920	BB	0.207	0.186
22.34	155710	BB	0.156	0.142
23.44	684720	BB	0.119	0.625
23.88	3.4071E+07	SPB	0.140	31.121

TOTAL AREA= 1.0943E+08
MUL FACTOR= 1.0000E+00

AR100309

AR100309



RUN # 1074 JUN/21/90 04:24:34
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 28

AR100310

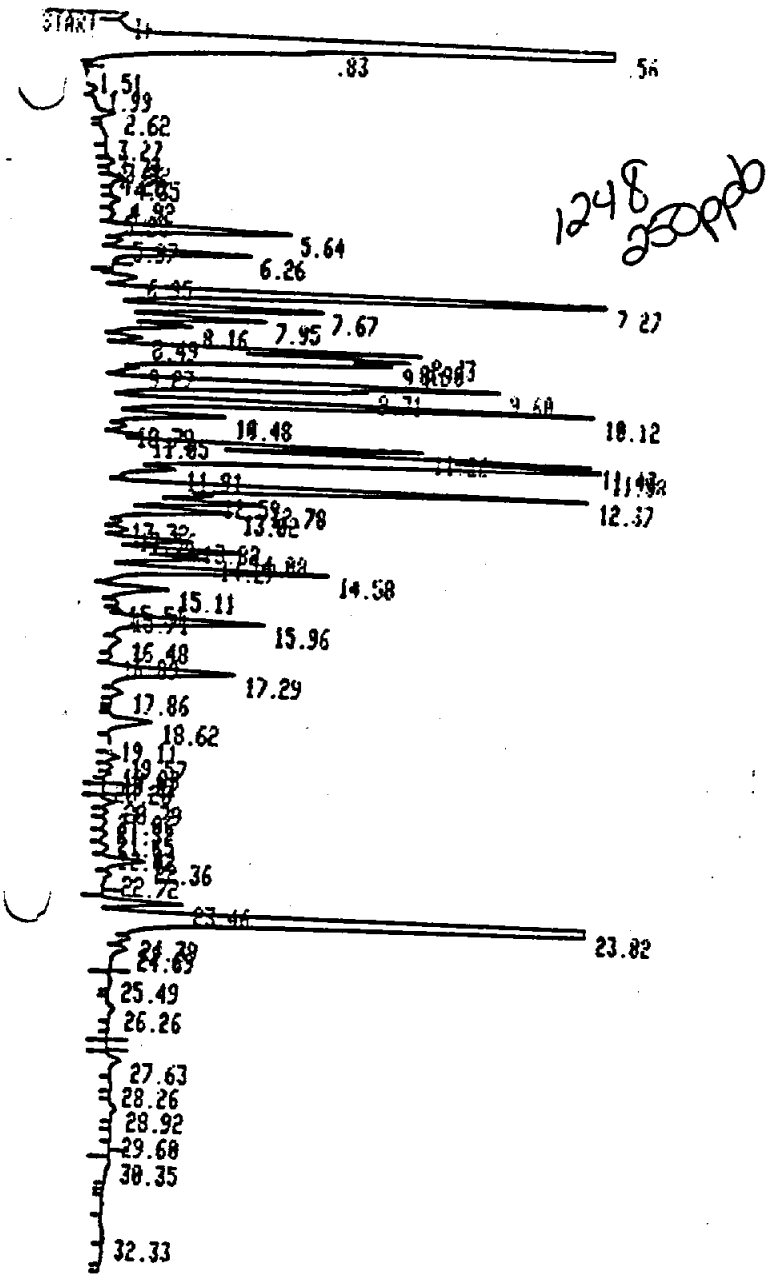
RUN # 1074 JUN/21/90 04:24:34
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 28

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.56	4.5269E+07	SBB	0.166	35.266
2.62	154980	BB	0.109	0.121
3.34	441080	BB	0.186	0.344
3.92	502510	PB	0.114	0.392
4.19	178970	BB	0.072	0.139
4.35	2213700	BB	0.116	1.725
4.92	266100	PB	0.120	0.207
5.66	4568400	BB	0.155	3.559
5.98	330630	BB	0.104	0.258
6.26	3051000	BB	0.124	2.377
6.96	1043200	BB	0.161	0.813
7.27	9238500	BB	0.139	7.197
7.67	3481000	BB	0.121	2.712
7.96	1901800	BB	0.108	1.482
8.16	229060	BB	0.075	0.179
8.48	167840	BB	0.096	0.131
8.73	1040000	BB	0.089	0.810
8.90	468420	BB	0.074	0.365
9.02	285600	BB	0.067	0.223
9.60	787330	BB	0.074	0.613
10.12	3440600	BB	0.133	2.680
10.48	687580	BB	0.123	0.536
11.22	1044700	BB	0.100	0.814
11.43	926460	BB	0.082	0.722
11.58	1407300	BB	0.095	1.096
11.92	156340	BB	0.101	0.122
12.36	2651600	BB	0.125	2.066
12.78	438340	BB	0.107	0.342
13.02	384950	BB	0.116	0.300
13.82	311510	BB	0.113	0.243
14.07	421760	BB	0.107	0.329
14.26	220990	BB	0.109	0.172
14.58	1226200	BB	0.155	0.955
15.11	417890	BB	0.159	0.326
15.95	758260	BB	0.159	0.591
17.29	876790	PB	0.206	0.683
18.68	304360	BB	0.220	0.237
19.19	160930	BB	0.407	0.125
23.44	754820	PB	0.123	0.588
23.80	3.5988E+07	SPB	0.140	28.036
28.91	164730	BB	0.254	0.128

TOTAL AREA= 1.2836E+08
MUL FACTOR= 1.0000E+00

TOTAL AREA= 1.2836E+08
MUL FACTOR= 1.0000E+00



RUN # 1075
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 29

JUN/21/90 05:01:32

AR100312

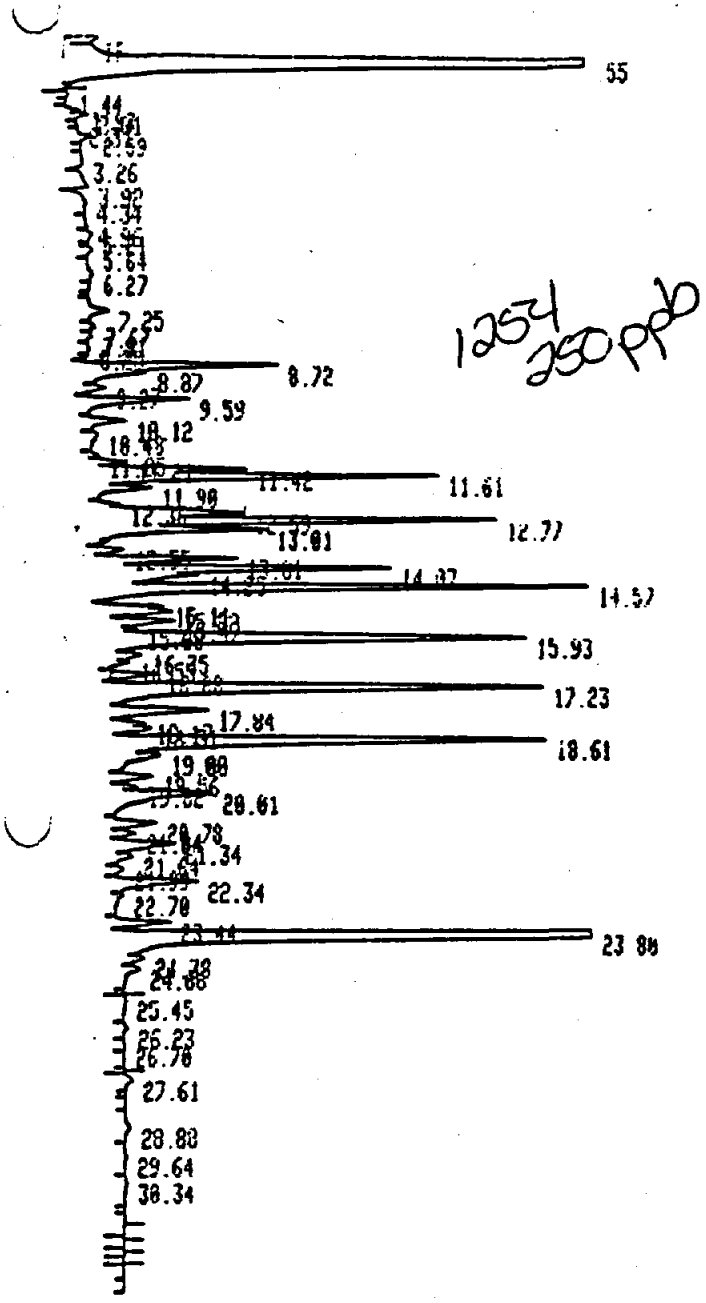
RUN # 1075 JUN/21/90 05:01:32
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 29

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.56	4.3183E+07	SBB	0.143	26.811
0.83	364510	Q BB	0.150	0.226
2.62	223670	BB	0.128	0.139
4.35	198850	BB	0.122	0.124
5.64	3009000	BB	0.150	1.868
6.26	1954800	BB	0.125	1.214
6.95	340910	PB	0.129	0.212
7.27	1.0331E+07	BB	0.142	6.414
7.67	2559400	BB	0.123	1.589
7.95	1455900	BB	0.108	0.904
8.16	586910	BB	0.097	0.364
8.49	287760	BB	0.100	0.179
8.73	2317000	BB	0.092	1.439
8.90	728440	BB	0.071	0.452
9.01	450840	BB	0.053	0.280
9.60	2117600	BB	0.082	1.315
10.12	7238600	BB	0.135	4.494
10.48	1335900	BB	0.121	0.829
11.22	2683400	BB	0.102	1.666
11.43	2067700	BB	0.083	1.284
11.58	3269600	BB	0.097	2.030
11.91	255350	BB	0.078	0.159
12.37	6145300	BB	0.126	3.815
12.59	170190	BB	0.073	0.106
12.78	1198200	BB	0.107	0.744
13.02	1277000	BB	0.119	0.793
13.56	161360	BB	0.109	0.100
13.82	878420	BB	0.115	0.545
14.08	1105400	BB	0.105	0.686
14.27	741310	BB	0.108	0.460
14.58	3482700	BB	0.147	2.162
15.11	1078700	BB	0.158	0.670
15.96	2686600	BB	0.164	1.668
16.48	166330	BB	0.171	0.103
17.29	2806100	BB	0.198	1.742
17.86	150900	BB	0.127	0.094
18.62	904290	PB	0.190	0.561
19.57	166690	BB	0.125	0.104
20.79	160630	PB	0.127	0.100
22.36	729530	BB	0.159	0.453
23.46	1072200	PB	0.126	0.666
23.82	4.8740E+07	SPB	0.141	30.261
27.63	283110	PB	0.209	0.176

TOTAL AREA= 1.6106E+08
MUL FACTOR= 1.0000E+00

TOTAL AREA= 1.6106E+08
MUL FACTOR= 1.0000E+00



1254
250 ppb

RUN # 1076 JUN/21/90 05:39:00
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 30

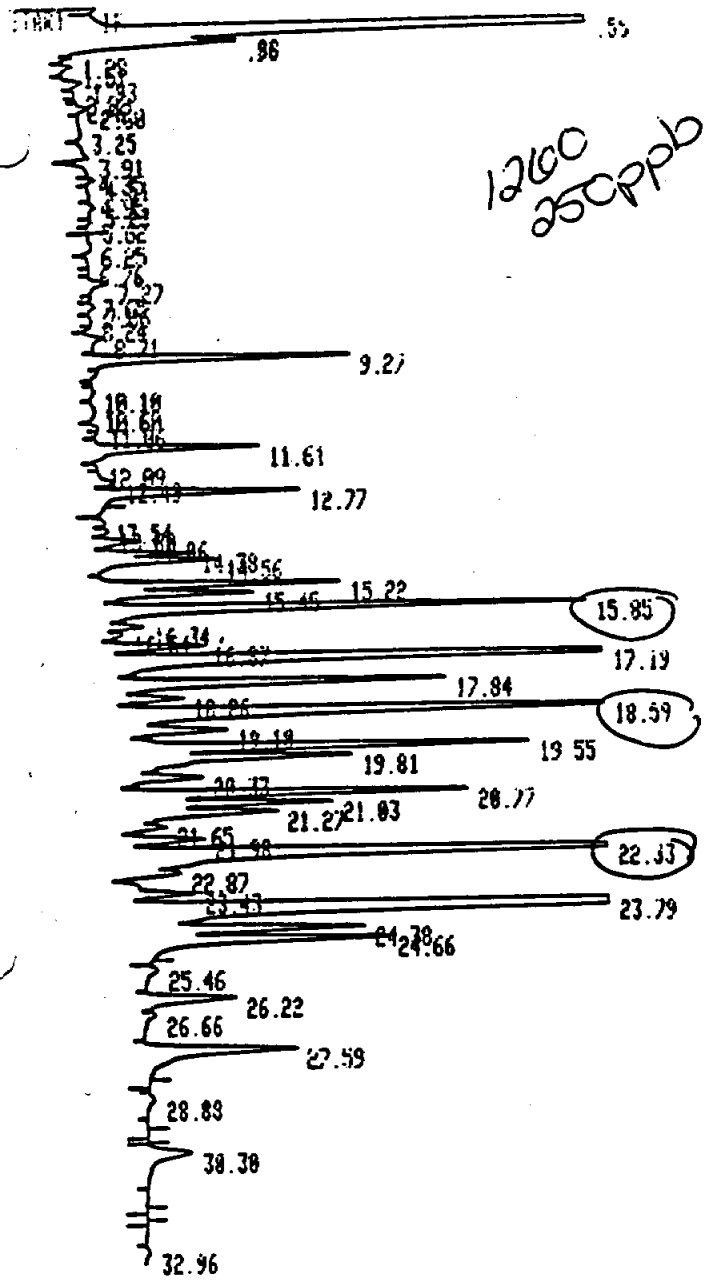
AR100314

RUN # 1076 JUN/21/90 05:39:00
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 30

AREA%

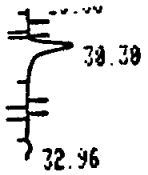
RT	AREA	TYPE	AR/HT	AREA%
0.55	5.2759E+07	SBB	0.158	33.565
2.59	153490	BB	0.109	0.098
3.26	234820	VB	0.335	0.149
3.92	622410	BB	0.306	0.396
4.34	411100	BB	0.384	0.262
7.25	377470	PB	0.167	0.240
8.72	1969400	PB	0.107	1.253
9.27	220640	BB	0.121	0.140
9.59	1715600	BB	0.145	1.092
10.12	558570	BB	0.134	0.355
10.48	151450	BB	0.218	0.096
11.21	242560	BB	0.093	0.154
11.42	955170	BB	0.092	0.608
11.61	3790100	BB	0.120	2.411
11.90	379860	BB	0.091	0.242
12.59	1189000	BB	0.137	0.756
12.77	4172800	BB	0.116	2.655
13.01	1370100	BB	0.108	0.872
13.55	315200	PB	0.112	0.201
13.81	1552400	BB	0.116	0.988
14.07	3017600	BB	0.115	1.920
14.25	254830	BB	0.100	0.162
14.57	8056400	BB	0.145	5.125
15.22	299820	BB	0.095	0.191
15.47	652740	BB	0.119	0.415
15.93	8718200	BB	0.193	5.546
16.35	189290	BB	0.107	0.120
16.88	696370	BB	0.130	0.443
17.23	9788500	BB	0.200	6.227
17.84	1452100	BB	0.146	0.924
18.31	181390	BB	0.102	0.115
18.61	8452600	BB	0.178	5.378
19.00	231190	BB	0.103	0.147
19.56	465170	BB	0.127	0.296
20.01	1705900	BB	0.178	1.085
20.78	565040	BB	0.131	0.360
21.04	190510	BB	0.112	0.121
21.34	975960	BB	0.164	0.621
21.99	151090	BB	0.144	0.096
22.34	1531600	BB	0.165	0.974
23.44	725040	BB	0.125	0.461
23.80	3.5400E+07	SPB	0.143	22.521
27.61	162800	BB	0.183	0.104
28.88	181580	PB	0.276	0.116

TOTAL AREA= 1.5719E+08
MUL FACTOR= 1.0000E+00



RUN # 1077 JUN/21/90 06:16:30
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 31

AR100316



RUN # 1077 JUN/21/90 06:16:30
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 31

AREA%

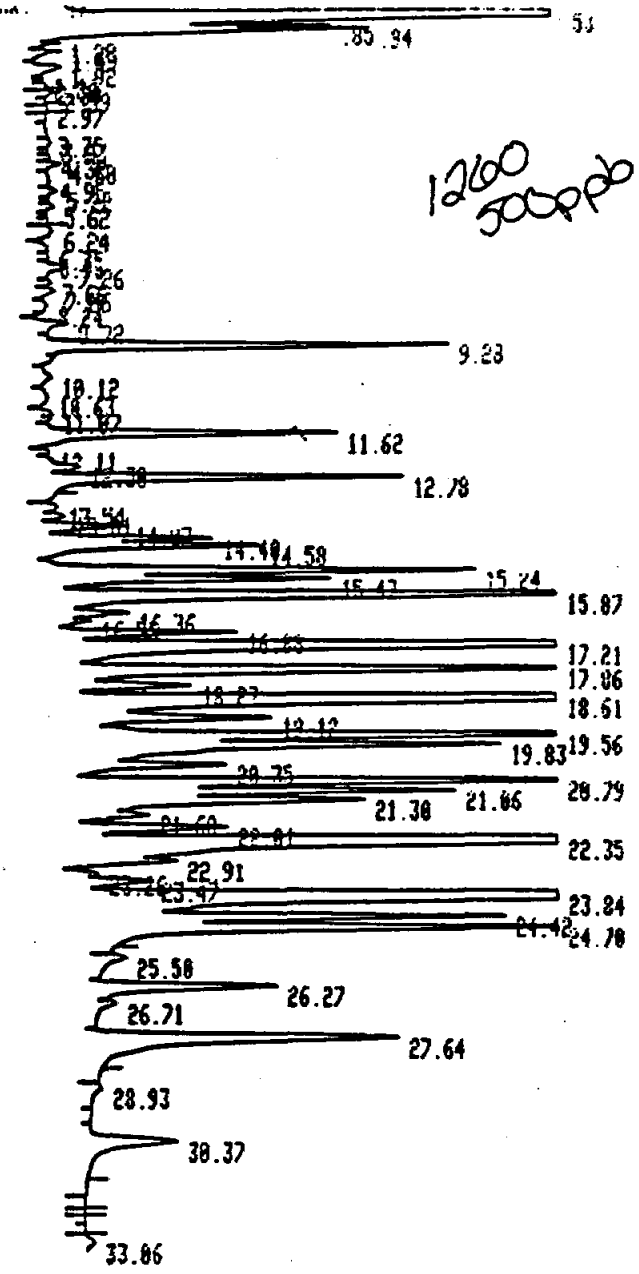
RT	AREA	TYPE	AR/HT	AREA%
0.55	3.8399E+07	SBB	0.141	20.356
0.88	185120	BB	0.052	0.098
1.51	169130	BB	0.127	0.090
1.93	254790	BB	0.139	0.135
3.25	217760	BB	0.384	0.115
3.91	767800	BB	0.291	0.407
4.35	311560	BB	0.535	0.165
6.25	271140	BB	0.364	0.144
7.27	365560	PB	0.170	0.194
8.71	378990	PB	0.182	0.201
9.27	3747400	BB	0.129	1.987
10.60	218840	BB	0.349	0.116
11.61	2870100	PB	0.151	1.522
12.49	218710	BB	0.148	0.116
12.77	3021700	BB	0.135	1.602
14.06	552950	BB	0.129	0.293
14.38	674330	BB	0.095	0.358
14.56	916070	BB	0.099	0.486
15.22	2520300	BB	0.109	1.336
15.45	1475000	BB	0.116	0.782
15.85	8304200	BB	0.155	4.402
16.34	292630	BB	0.108	0.155
16.87	1246000	BB	0.129	0.661
17.19	1.2855E+07	BB	0.168	6.815
17.84	5569500	BB	0.156	2.952
18.26	758890	BB	0.133	0.402
18.59	1.2078E+07	BB	0.181	6.403
19.10	1176500	BB	0.133	0.624
19.55	5147600	BB	0.129	2.729
19.81	2415500	BB	0.130	1.281
20.33	833460	BB	0.128	0.442
20.77	4523400	BB	0.131	2.398
21.03	1783100	BB	0.114	0.945
21.27	1454800	BB	0.136	0.771
21.65	286470	BB	0.122	0.152
21.98	1091500	BB	0.145	0.579
22.33	1.5693E+07	BB	0.185	8.319
22.87	402580	BB	0.141	0.213
23.43	1111700	BB	0.169	0.589
23.79	4.0835E+07	SPB	0.156	21.647
24.38	2424300	BB	0.127	1.285
24.66	3037300	BB	0.138	1.610
25.46	181590	BB	0.182	0.096
26.22	1736600	BB	0.173	0.921
27.59	4281200	BB	0.248	2.270
28.88	161910	VB	0.232	0.086
30.30	1422300	BB	0.287	0.754

~~28000000~~ 34075200

TOTAL AREA= 1.8864E+08
MUL FACTOR= 1.0000E+00

AR1003

AR100317



RUN # 1078 JUN/21/90 06:54:01
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 32

AR100318

RUN # 1078 JUN/21/90 06:54:01
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 32

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.53	4.4213E+07	SBB	0.133	15.336
0.85	539930	BB	0.043	0.187
0.94	622750	BB	0.039	0.216
1.49	285400	BB	0.107	0.099
1.92	449270	BB	0.164	0.156
4.50	151780	BB	0.106	0.053
6.24	301960	BB	0.297	0.105
7.26	370370	BB	0.152	0.129
7.86	174240	BB	0.151	0.060
8.72	534680	PB	0.155	0.186
9.28	6192000	BB	0.137	2.148
10.12	260550	PB	0.237	0.090
10.63	326590	BB	0.368	0.113
11.62	5071000	PB	0.152	1.759
12.50	347010	BB	0.134	0.120
12.78	5451100	BB	0.140	1.891
14.07	1040300	BB	0.132	0.361
14.40	1179000	BB	0.096	0.409
14.58	1674000	BB	0.102	0.581
15.24	4387200	BB	0.109	1.522
15.47	2647500	BB	0.117	0.918
15.87	1.4766E+07	BB	0.157	5.122
16.36	544380	BB	0.109	0.189
16.88	2303600	BB	0.131	0.799
17.21	2.2713E+07	BB	0.172	7.879
17.86	1.0272E+07	BB	0.157	3.563
18.27	1435100	BB	0.135	0.498
18.61	2.2008E+07	BB	0.182	7.634
19.12	2246700	BB	0.136	0.779
19.56	9271900	BB	0.130	3.216
19.83	4506900	BB	0.132	1.563
20.35	1621400	BB	0.129	0.562
20.79	8400600	BB	0.133	2.914
21.06	3290200	BB	0.116	1.141
21.30	2760800	BB	0.136	0.958
21.68	498670	BB	0.121	0.173
22.01	2111200	BB	0.146	0.732
22.35	2.9431E+07	BB	0.138	10.209
22.91	710870	BB	0.131	0.247
23.47	738250	BB	0.126	0.256
23.84	4.6329E+07	SPB	0.166	16.070
24.42	4691400	BB	0.131	1.627
24.70	5969900	BB	0.141	2.071
25.50	314000	BB	0.164	0.109
26.27	3480500	BB	0.176	1.207
27.64	8611800	BB	0.251	2.987
30.37	2822900	PB	0.286	0.979
33.06	225950	I BH	0.231	0.078

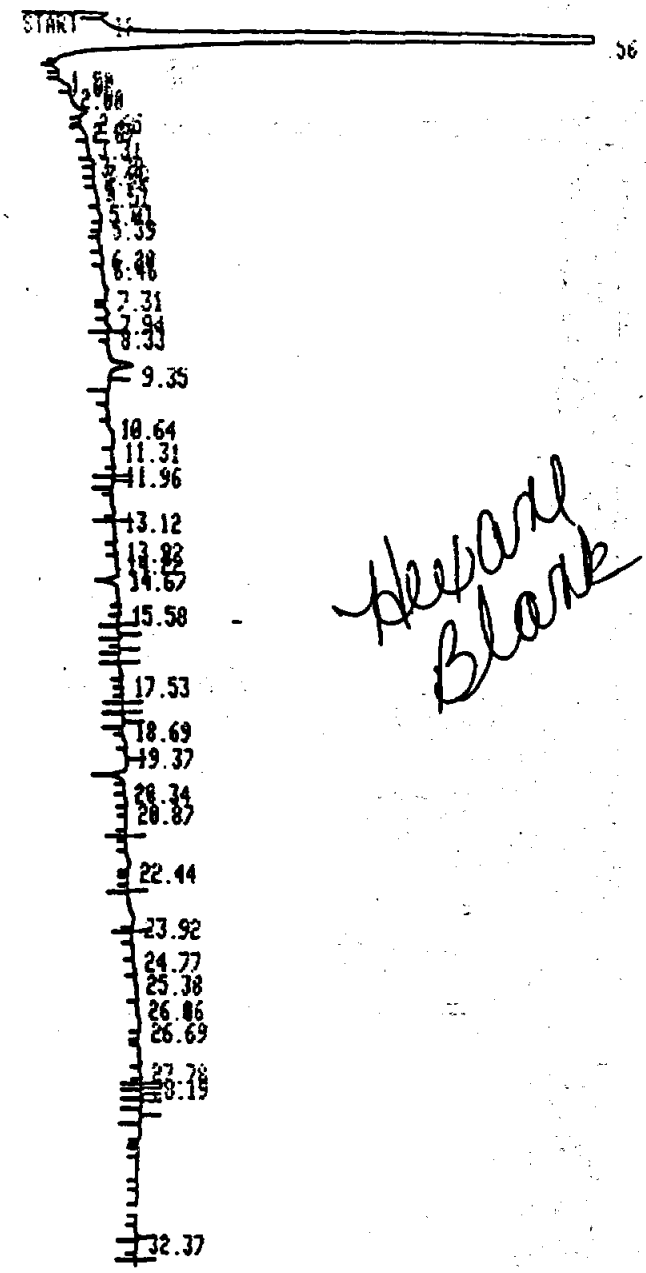
66205000

TOTAL AREA= 2.8829E+08
MUL FACTOR= 1.0000E+00

AR100315

sample and bracketing standards

Quantitive Column



Hexane Blank

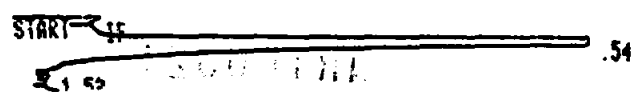
RUN # 1079 JUN/21/90 11:22:45
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 1

AREA%

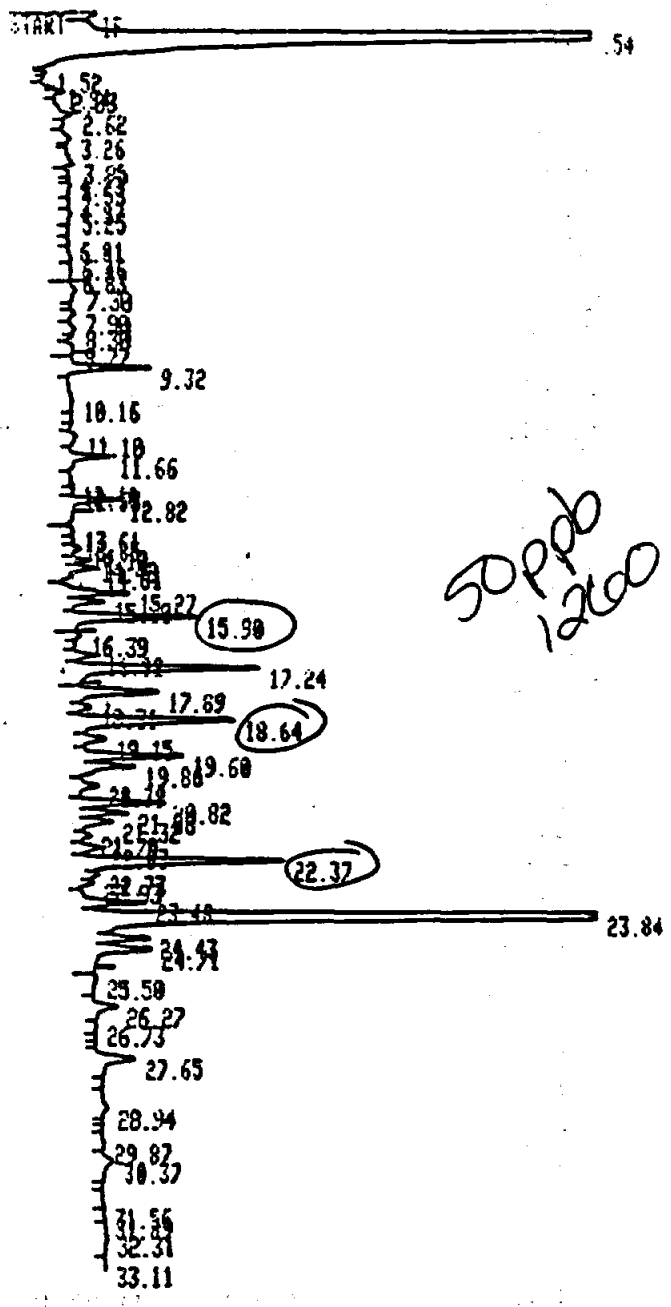
RT	AREA	TYPE	AR/HT	AREA%
0.56	4.5457E+07	SBB	0.172	97.157
9.35	444730	PB	0.166	0.951
14.67	541120	BB	0.547	1.157
15.58	344460	BB	2.227	0.736

TOTAL AREA= 4.6787E+07
MUL FACTOR= 1.0000E+00

AR100320



TOTAL AREA= 4.6787E+07
MUL FACTOR= 1.0000E+00



50ppb
1200

RUN # 1080 JUN/21/90 11:58:45
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 2

AR100321

AR100322

28.94
29.82
30.37
31.56
31.89
32.31
33.11

RUN # 1080 JUN/21/90 11:58:45
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 2

AREA%

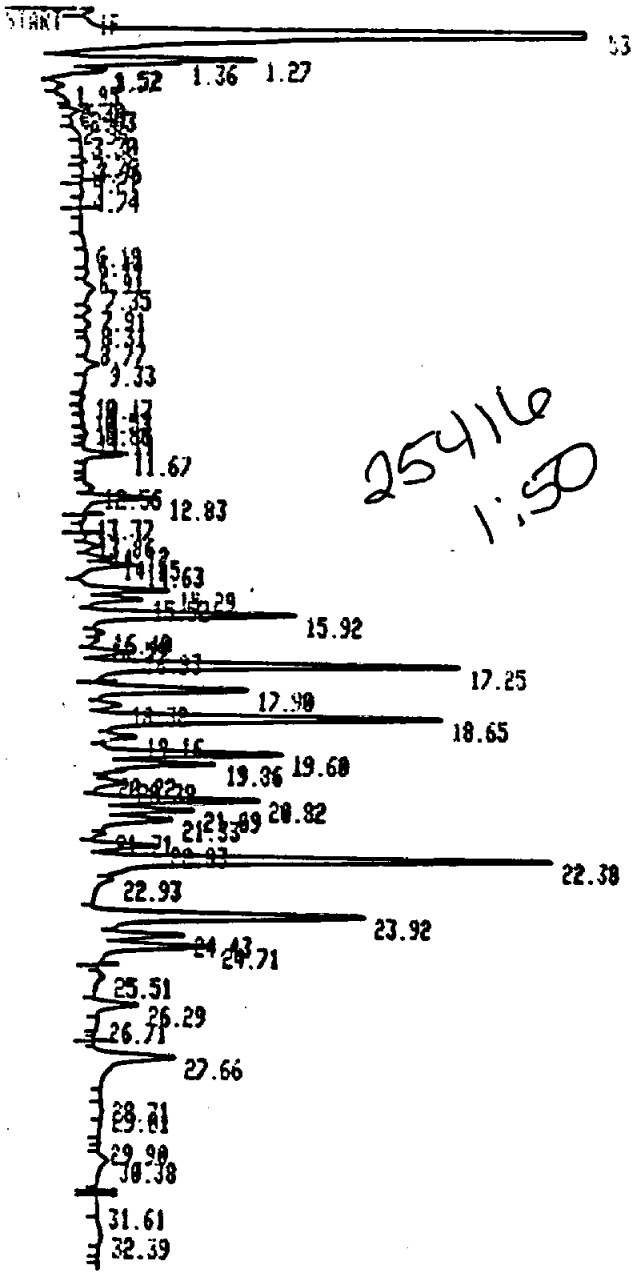
RT	AREA	TYPE	AR/HT	AREA%
0.54	5.6425E+07	SBB	0.165	47.407
3.95	241500	PB	0.237	0.203
9.32	1179700	BB	0.129	0.991
11.66	674270	BB	0.149	0.567
12.82	667290	BB	0.123	0.561
14.42	178680	BB	0.098	0.150
14.61	405390	BB	0.162	0.341
15.27	844230	BB	0.131	0.709
15.50	356900	BB	0.110	0.300
15.90	1985000	BB	0.143	1.668
16.92	297660	PB	0.125	0.250
17.24	3206100	BB	0.157	2.694
17.89	1318800	BB	0.150	1.108
18.31	168490	BB	0.126	0.142
18.64	2891700	BB	0.167	2.430
19.15	337430	BB	0.138	0.284
19.60	1282000	BB	0.122	1.077
86	761040	BB	0.146	0.639
.38	342810	BB	0.168	0.288
20.82	1119000	BB	0.126	0.940
21.08	479430	BB	0.112	0.403
21.32	367810	BB	0.132	0.309
22.03	300070	BB	0.140	0.252
22.37	3424100	BB	0.155	2.877
23.48	864430	BB	0.132	0.726
23.84	3.5831E+07	SPB	0.139	30.104
24.43	570650	BB	0.122	0.479
24.71	723820	BB	0.134	0.608
26.27	439090	BB	0.174	0.369
27.65	853980	PB	0.209	0.718
28.94	163390	PB	0.263	0.137
30.37	322120	BB	0.261	0.271

6300800

TOTAL AREA= 1.1902E+08
MUL FACTOR= 1.0000E+00

AR100322

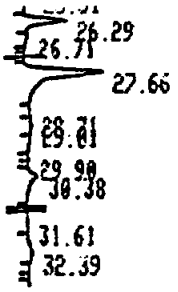
MUL FACTOR= 1.0000E+00



254116
1:50

RUN # 1081 JUN/21/90 12:35:19
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 3

AR100323



RUN # 1081 JUN/21/90 12:35:19
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 3

AREA%

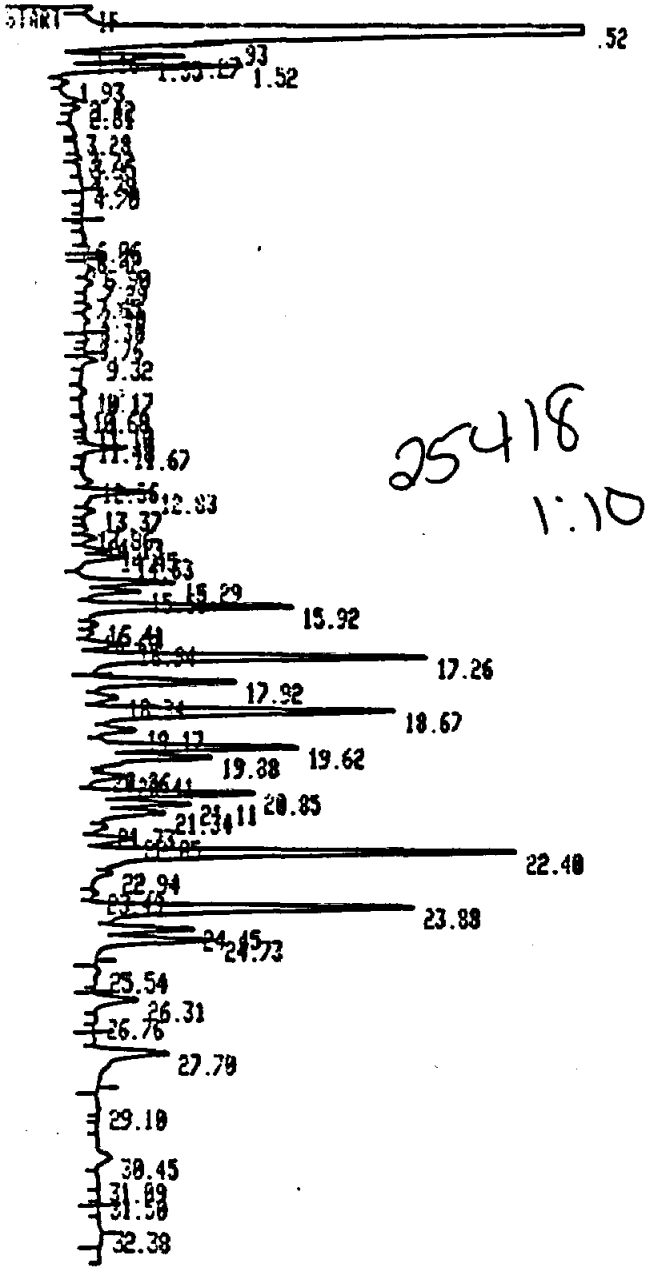
RT	AREA	TYPE	AR/HT	AREA%
0.53	4.0479E+07	SBB	0.143	41.978
1.27	1239000	BB	0.093	1.285
7.35	267960	BB	0.238	0.278
9.33	199510	BB	0.131	0.207
11.67	527010	PB	0.122	0.547
12.83	1107000	BB	0.138	1.148
14.12	199500	BB	0.117	0.207
14.45	179020	BB	0.087	0.186
14.63	608060	BB	0.127	0.631
15.29	960060	BB	0.115	0.996
15.52	564020	BB	0.113	0.585
15.92	3478400	BB	0.151	3.607
16.93	577590	BB	0.126	0.599
17.25	6617400	BB	0.161	6.862
17.90	2480300	BB	0.149	2.572
18.32	324300	BB	0.139	0.336
18.65	6589000	BB	0.172	6.833
19.16	435240	BB	0.128	0.451
19.60	2326100	BB	0.125	2.412
19.86	1150400	BB	0.114	1.193
20.39	311270	BB	0.115	0.323
20.82	2173200	BB	0.120	2.254
21.09	934410	BB	0.113	0.969
21.33	901160	BB	0.142	0.935
22.03	1014100	BB	0.141	1.052
22.38	8881000	BB	0.174	9.210
23.92	5689400	BB	0.192	5.900
24.43	964440	BB	0.125	1.000
24.71	1625000	BB	0.147	1.685
25.51	173430	PB	0.220	0.180
26.29	769240	BB	0.165	0.798
27.66	2204200	PB	0.253	2.286
30.38	318200	PB	0.273	0.330
32.39	161240	BB	0.419	0.167

TOTAL AREA= 9.6429E+07
MUL FACTOR= 1.0000E+00

AR100324

[illegible]	[illegible]	BB	[illegible]	[illegible]
23.92	5689480	BB	0.192	5.900
24.43	964440	BB	0.125	1.000
24.71	1625000	BB	0.147	1.685
25.51	173430	PB	0.220	0.180
26.29	769240	BB	0.165	0.798
27.66	2204200	PB	0.253	2.286
30.38	318200	PB	0.273	0.330
32.39	161240	BB	0.419	0.167

TOTAL AREA= 9.6429E+07
MUL FACTOR= 1.0000E+00

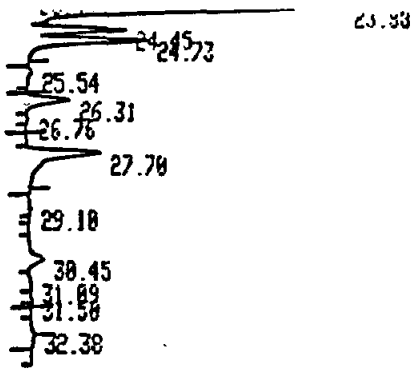


25418
1:10

RUN # 1082 JUN/21/90 13:11:58
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 4

AR100325

AR10032



RUN # 1082 JUN/21/90 13:11:58
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 4

AREA%

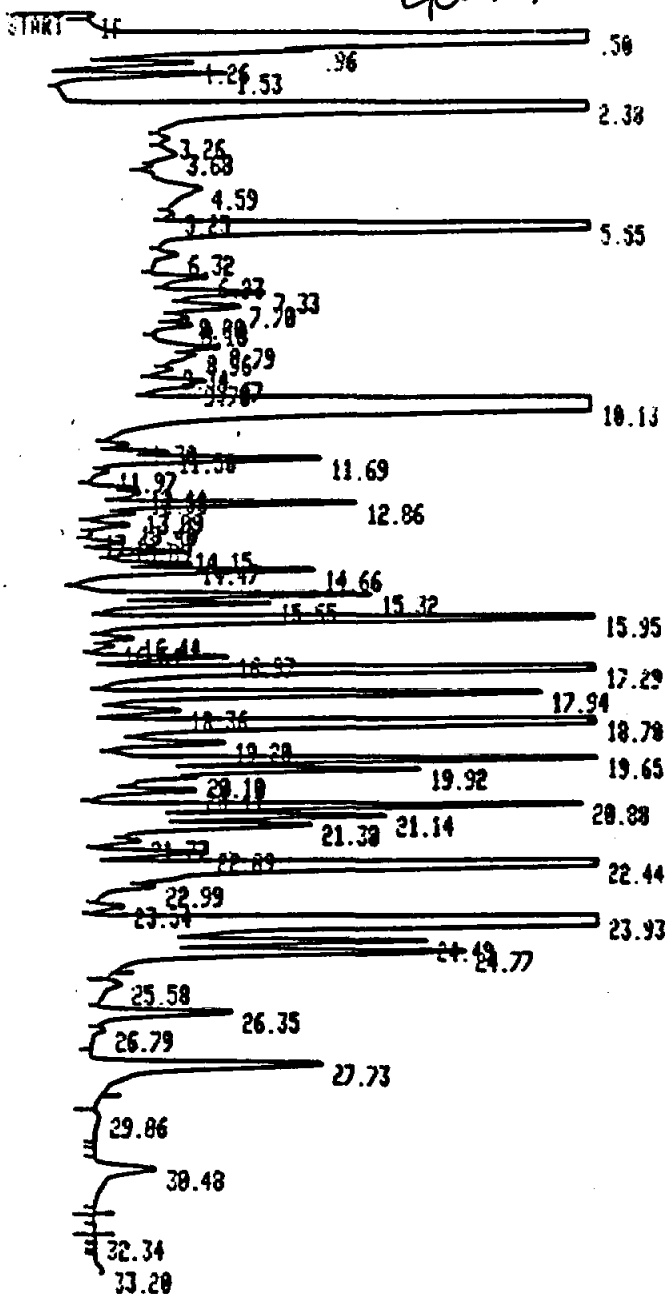
RT	AREA	TYPE	AR/HT	AREA%
0.52	5.9678E+07	†SBB	0.132	51.292
0.93	310990	BB	0.086	0.267
1.27	665940	BB	0.088	0.572
1.52	2290500	BB	0.124	1.969
9.32	168750	BB	0.116	0.145
11.67	512890	BB	0.121	0.441
12.83	1029700	BB	0.140	0.885
14.13	161880	BB	0.118	0.139
14.45	186230	BB	0.087	0.160
14.63	469540	BB	0.119	0.404
15.29	1036500	BB	0.114	0.891
15.53	538770	BB	0.110	0.463
15.92	3411300	BB	0.148	2.932
16.94	559590	BB	0.126	0.481
17.26	6126400	BB	0.162	5.266
17.92	2388300	PB	0.149	2.046
18.34	346000	BB	0.138	0.297
18.67	5702500	BB	0.171	4.901
19.17	491540	BB	0.128	0.423
19.62	2573800	BB	0.126	2.212
19.88	1467600	BB	0.140	1.261
20.41	373070	BB	0.116	0.321
20.85	2172300	BB	0.128	1.867
21.11	931220	BB	0.114	0.800
21.34	748450	BB	0.133	0.643
22.05	613650	BB	0.143	0.527
22.40	8280200	BB	0.176	7.117
23.88	6811300	BB	0.191	5.854
24.45	1145700	BB	0.127	0.985
24.73	1575200	BB	0.137	1.354
26.31	882150	BB	0.180	0.758
27.70	2218000	PB	0.267	1.906
30.45	490030	VB	0.298	0.421

TOTAL AREA= 1.1635E+08
MUL FACTOR= 1.0000E+00

27.71	2.2712E+07	BB	0.246	4.433
30.45	5314000	VB	0.299	1.037

TOTAL AREA= 5.1235E+08
MUL FACTOR= 1.0000E+00

429 1:2



RUN # 1087 JUN/21/90 16:14:10
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 9

AR100

AR100327

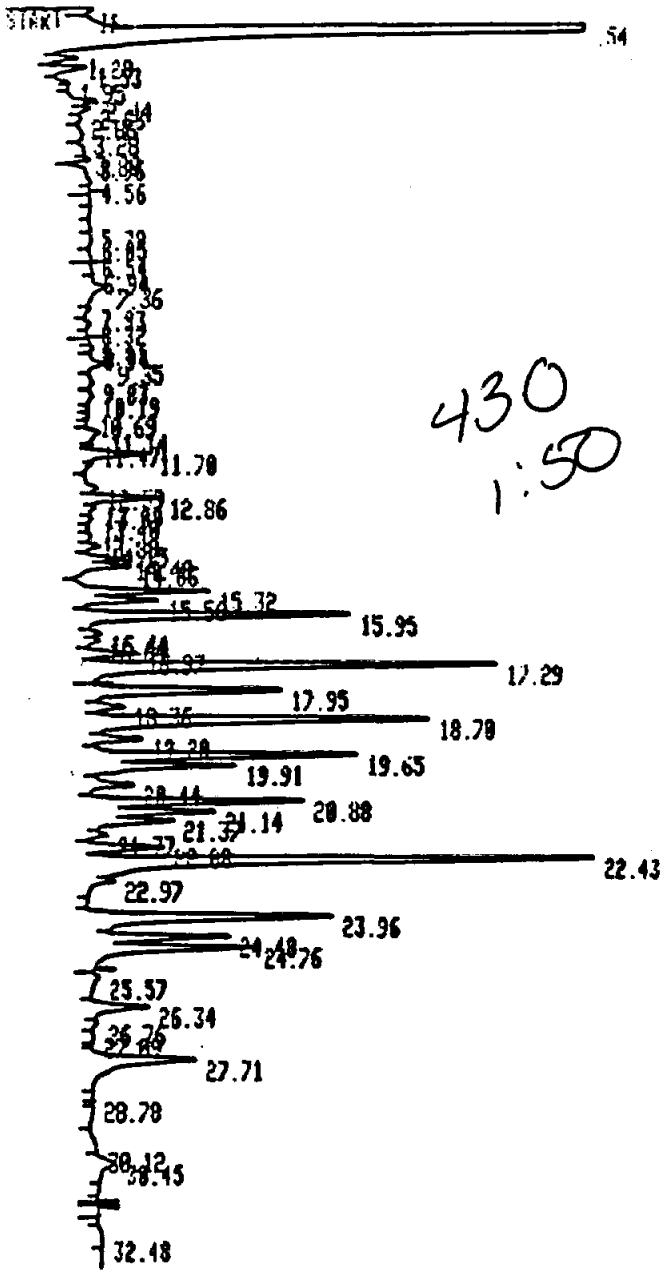
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 9

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.50	8.1026E+07	↑SBB	0.182	16.295
0.96	249790	BB	0.048	0.050
1.26	1550900	BB	0.134	0.312
1.53	2372400	BB	0.129	0.477
2.38	3.7375E+07	SPB	0.181	7.517
3.68	549600	BB	0.235	0.111
4.59	2199100	PB	0.428	0.442
5.55	3.9718E+07	SPB	0.150	7.988
6.32	332840	BB	0.148	0.067
6.93	757980	BB	0.134	0.152
7.33	1323200	BB	0.129	0.266
7.70	989050	BB	0.146	0.199
8.00	226190	BB	0.122	0.046
8.18	292410	BB	0.102	0.059
8.79	431660	BB	0.095	0.087
8.96	261000	BB	0.163	0.053
9.67	258730	BB	0.082	0.052
10.13	1.3580E+08	↑SPB	0.301	27.312
11.30	216090	BB	0.097	0.044
11.50	313710	BB	0.082	0.063
11.69	2663200	BB	0.125	0.536
12.44	201090	BB	0.076	0.040
12.58	255110	BB	0.131	0.051
12.86	3263400	BB	0.121	0.656
13.09	255810	BB	0.095	0.052
13.40	536850	BB	0.122	0.108
13.89	423340	BB	0.114	0.085
14.15	1058400	BB	0.113	0.213
14.47	593430	BB	0.089	0.119
14.66	2515000	BB	0.119	0.506
15.32	3297200	BB	0.116	0.663
15.55	1859000	BB	0.116	0.374
15.95	1.1639E+07	BB	0.163	2.341
16.44	359690	BB	0.109	0.072
16.97	1853000	BB	0.129	0.373
17.29	1.8654E+07	BB	0.171	3.752
17.94	7431000	BB	0.151	1.494
18.36	1149500	BB	0.147	0.231
18.70	1.7672E+07	BB	0.175	3.554
19.20	1501400	BB	0.132	0.302
19.65	7235700	BB	0.129	1.455
19.92	2984200	BB	0.114	0.600
20.44	1047400	BB	0.118	0.211
20.88	6496200	BB	0.129	1.307
21.14	2723100	BB	0.116	0.548
21.38	2306500	BB	0.139	0.464
21.77	332600	BB	0.114	0.067
22.09	1670000	BB	0.142	0.336
22.44	2.3805E+07	BB	0.180	4.787
23.54	402120	BB	0.124	0.081
23.93	4.4905E+07	BB	0.254	9.031
24.49	3380400	BB	0.126	0.680
24.77	4566700	BB	0.138	0.918
25.58	348290	BB	0.203	0.070
26.35	2593700	BB	0.172	0.522
27.73	6437700	BB	0.258	1.295
29.06	187780	PB	0.351	0.038
29.48	2184200	VB	0.319	0.439
29.20	203960	I PH	0.246	0.041

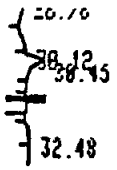
TOTAL AREA= 4.9724E+08
MUL FACTOR= 1.0000E+00

AR100328



RUN # 1088 JUN/21/90 16:51:02
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 10

AR100329



RUN # 1088 JUN/21/90 16:51:02
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 10

AREA%

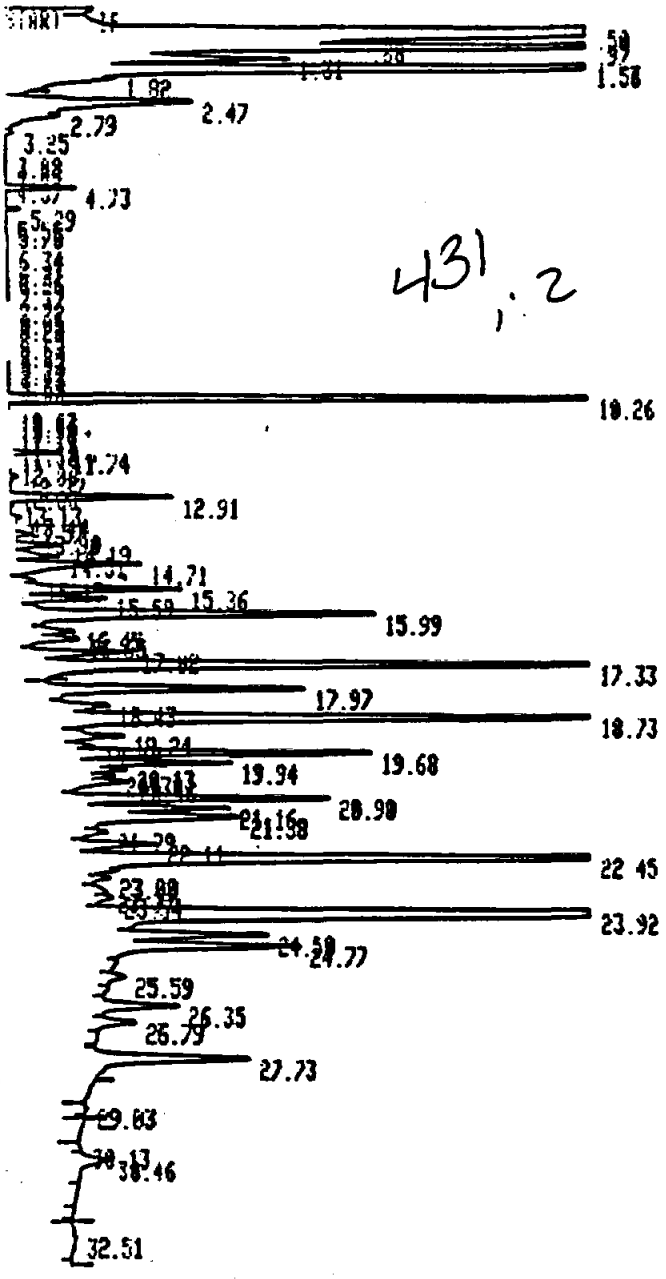
RT	AREA	TYPE	AR/HT	AREA%
0.54	4.6993E+07	SBB	0.163	41.081
1.28	173840	BB	0.086	0.152
1.53	532710	PB	0.130	0.466
2.44	179260	PB	0.084	0.157
3.28	212040	BB	0.289	0.185
3.96	164160	BB	0.110	0.144
4.56	494170	BB	0.863	0.432
7.36	426980	BB	0.229	0.373
9.35	299670	BB	0.146	0.262
11.14	262100	PB	0.171	0.229
11.70	841610	BB	0.126	0.736
12.86	922470	BB	0.121	0.806
14.15	159850	BB	0.117	0.140
14.48	295370	BB	0.090	0.258
14.66	471870	BB	0.118	0.413
15.32	1446700	BB	0.114	1.265
15.56	772720	BB	0.115	0.676
15.95	4399900	BB	0.147	3.846
16.97	692910	BB	0.127	0.606
17.29	7472600	BB	0.163	6.533
17.95	3223900	BB	0.153	2.818
18.36	439180	BB	0.136	0.384
18.70	6536300	BB	0.175	5.714
19.20	664850	BB	0.130	0.581
19.65	3429900	BB	0.127	2.998
19.91	1774200	BB	0.138	1.551
20.44	724870	BB	0.154	0.634
20.88	2852500	BB	0.130	2.494
21.14	1138000	BB	0.113	0.995
21.37	767730	BB	0.123	0.671
21.77	215900	BB	0.129	0.189
22.08	1195000	BB	0.145	1.045
22.43	1.0501E+07	BB	0.178	9.180
23.96	5064100	PB	0.189	4.427
24.48	1603800	BB	0.125	1.407
24.76	2206000	BB	0.144	1.929
25.57	182810	BB	0.258	0.160
26.34	1096400	BB	0.173	0.959
27.71	2995100	VB	0.256	2.618
30.45	558490	BB	0.270	0.488

TOTAL AREA= 1.1439E+08
MUL FACTOR= 1.0000E+00

AR100330

15.48	182520	PB	0.544	3.703
25.23	153880	BB	0.353	3.122

TOTAL AREA= 4929500
MUL FACTOR= 1.0000E+00



RUN # 1090 JUN/21/90 18:04:19
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 12

AR100331

WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 12

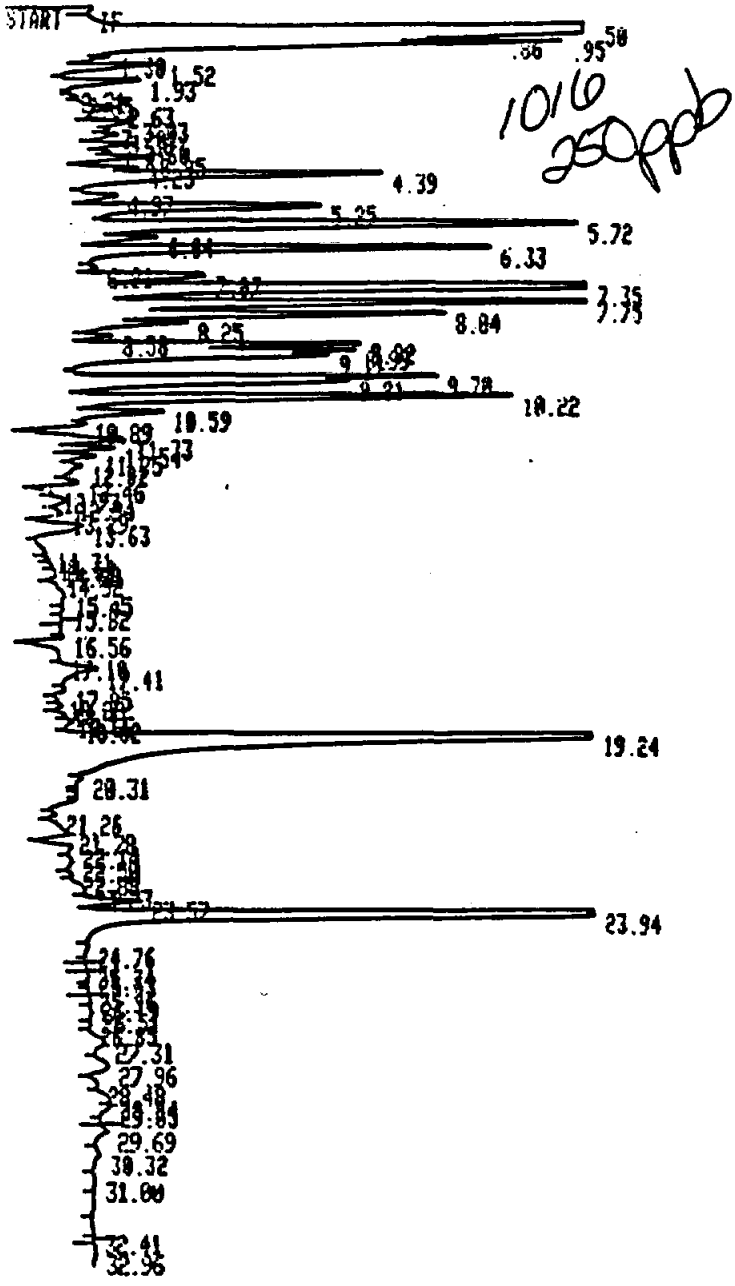
AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.50	6.8901E+07	↑SBB	0.157	33.530
0.97	9547200	BB	0.121	4.646
1.31	1876500	BB	0.115	0.913
1.53	853950	BB	0.039	0.416
2.47	3089400	PB	0.179	1.503
3.25	170240	BB	0.223	0.083
4.73	1622800	BB	0.138	0.790
5.29	1044300	BB	0.161	0.508
6.34	180700	PB	0.176	0.088
6.96	490430	BB	0.167	0.239
7.37	754860	BB	0.150	0.367
7.72	301700	BB	0.135	0.147
8.01	217480	BB	0.144	0.106
8.89	626580	BB	0.161	0.305
10.26	1.1707E+07	PB	0.123	5.697
10.92	211010	BB	0.139	0.103
11.74	1023700	BB	0.117	0.498
12.91	2246400	BB	0.121	1.093
13.90	422240	BB	0.147	0.206
14.19	579990	BB	0.112	0.282
14.51	481250	BB	0.121	0.234
14.71	2019600	BB	0.153	0.983
15.36	1856500	BB	0.115	0.904
15.59	819680	BB	0.104	0.399
15.99	5729400	BB	0.150	2.788
16.45	308440	BB	0.104	0.150
16.65	455590	BB	0.123	0.222
17.02	1141200	BB	0.115	0.555
17.33	1.0757E+07	BB	0.147	5.235
7.97	3874100	PB	0.136	1.885
.8.43	501030	BB	0.130	0.244
18.73	1.0916E+07	BB	0.152	5.312
19.24	744530	BB	0.135	0.362
19.68	3825900	BB	0.120	1.862
19.94	1579100	BB	0.108	0.768
20.13	182540	BB	0.080	0.089
20.46	372460	BB	0.097	0.181
20.90	3345600	BB	0.122	1.628
21.16	1291400	BB	0.105	0.629
21.38	2007800	BB	0.157	0.977
21.79	232130	BB	0.117	0.113
22.11	1082900	BB	0.133	0.527
22.45	1.3906E+07	BB	0.150	6.767
23.00	160320	PB	0.106	0.078
23.54	152270	BB	0.107	0.074
23.92	2.1107E+07	BB	0.189	10.271
24.50	1840100	BB	0.124	0.895
24.77	2485000	BB	0.134	1.209
25.59	231820	PB	0.137	0.113
26.35	1255400	PB	0.150	0.611
26.79	558960	BB	0.144	0.272
27.73	3530100	PB	0.203	1.718
30.46	680950	BB	0.229	0.331
32.51	193600	BB	0.516	0.094

TOTAL AREA= 2.0549E+08
MUL. FACTOR= 1.0000E+00

AR100332

TOTAL AREA= 3.6919E+08
MUL FACTOR= 1.0000E+00



1016
250ppb

RUN # 1093 JUN/21/90 19:54:37
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 15

AR100

AR100333

RUN # 1093 JUN/21/90 19:54:37
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 15

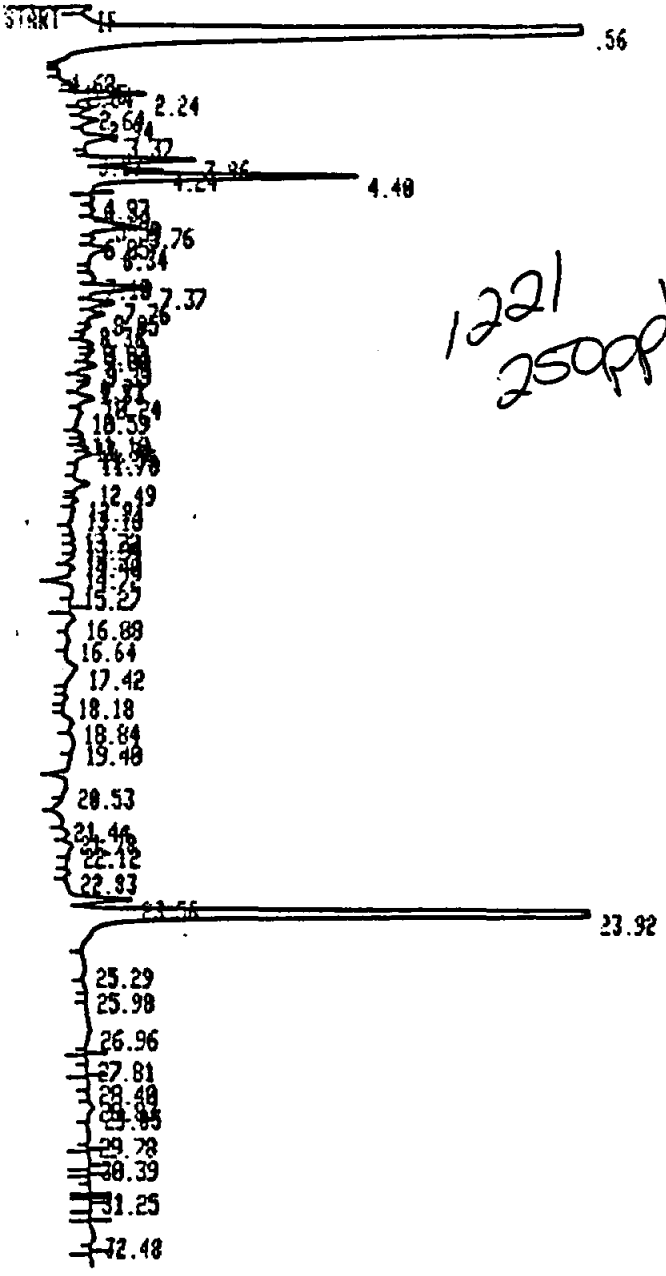
AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.50	7.3567E+07	†SBB	0.168	34.261
0.86	347400	BB	0.043	0.162
0.95	843160	BB	0.041	0.393
1.30	163820	BB	0.089	0.076
1.52	1224700	BB	0.127	0.570
1.93	1071600	BB	0.125	0.499
2.63	668670	BB	0.160	0.311
3.03	469420	BB	0.109	0.219
3.36	239490	BB	0.110	0.112
3.60	479420	BB	0.105	0.223
3.95	686810	BB	0.114	0.320
4.23	247430	BB	0.070	0.115
4.39	4757000	BB	0.158	2.215
4.97	515490	BB	0.127	0.240
5.25	3951000	BB	0.152	1.840
5.72	8540300	BB	0.160	3.977
6.04	640880	BB	0.112	0.299
6.33	5979900	BB	0.133	2.785
7.07	1938900	BB	0.170	0.903
7.35	1.7697E+07	BB	0.145	8.242
7.75	6378800	BB	0.125	2.971
8.04	3705200	BB	0.110	1.726
8.25	790010	BB	0.107	0.368
8.58	302050	BB	0.094	0.141
8.82	2046800	BB	0.092	0.953
8.99	739440	BB	0.074	0.344
9.70	211740	BB	0.011	0.099
10.22	6758700	BB	0.138	3.148
10.59	1069700	BB	0.120	0.498
10.89	420650	BB	0.163	0.196
11.33	1432000	BB	0.179	0.667
11.54	563950	BB	0.104	0.263
11.75	354920	BB	0.108	0.165
12.02	268520	BB	0.177	0.125
12.46	464560	BB	0.138	0.216
12.94	291760	BB	0.167	0.136
13.29	366160	BB	0.172	0.171
13.63	1353600	BB	0.250	0.630
14.92	155200	BB	0.197	0.072
15.45	434500	BB	0.421	0.202
16.56	503520	VB	0.142	0.235
17.10	691840	BB	0.725	0.322
17.41	878410	BB	0.214	0.409
19.24	2.3570E+07	BB	0.296	10.977
21.78	998210	BB	0.314	0.465
22.14	424580	BB	0.192	0.198
23.57	800400	BB	0.125	0.373
23.94	3.3213E+07	SPB	0.136	15.468
27.31	458390	BB	0.303	0.214
27.96	640350	BB	0.315	0.298
29.69	205540	BB	0.198	0.096
30.32	201350	BB	0.301	0.094

TOTAL AREA= 2.1472E+08
MUL FACTOR= 1.0000E+00

AR100334

TOTAL AREA= 2.1472E+08
MUL FACTOR= 1.0000E+00

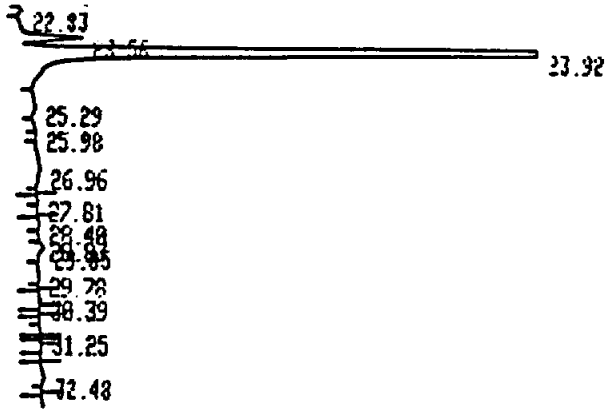


1221
250ppb

RUN # 1094 JUN/21/90 20:31:07
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 16

AR10033

AR100335



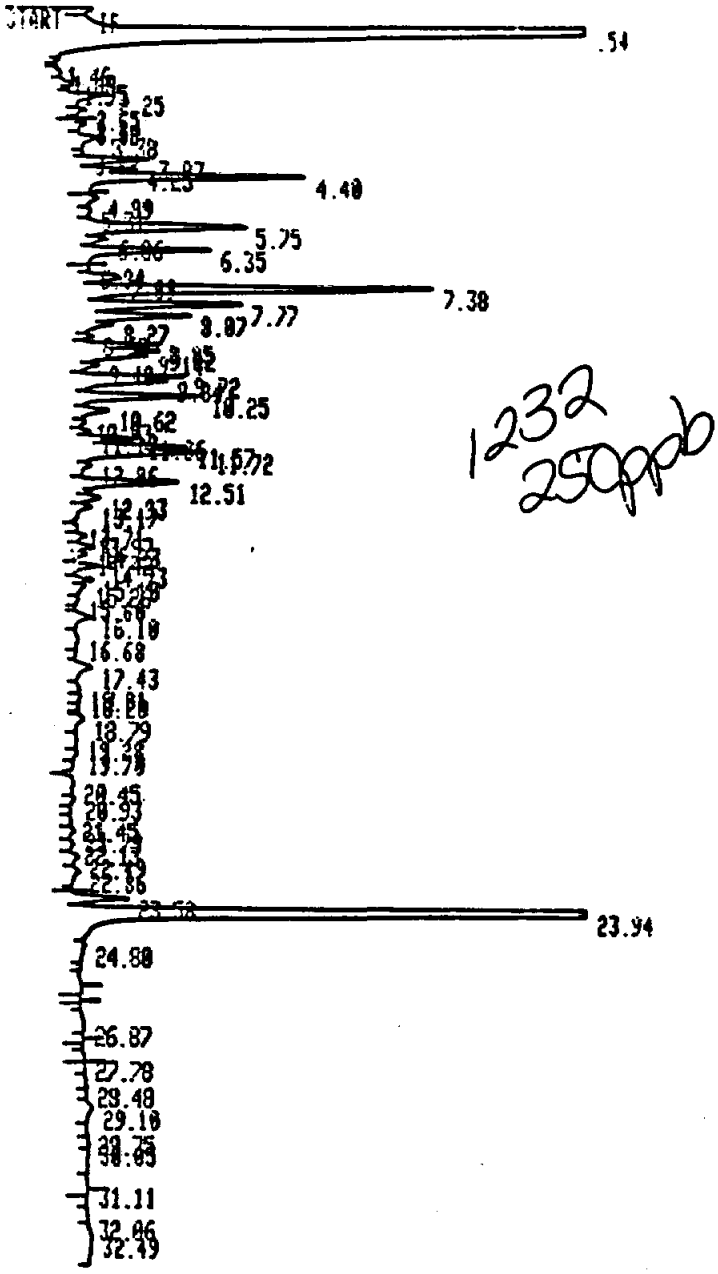
RUN # 1094 JUN/21/90 20:31:07
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 16

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.56	6.0792E+07	SBB	0.163	56.040
2.24	1083800	BB	0.131	0.999
2.94	234790	BB	0.119	0.216
3.37	536040	BB	0.140	0.494
3.96	1466400	BB	0.125	1.352
4.24	368600	BB	0.075	0.340
4.40	3083300	BB	0.119	2.842
5.76	629890	BB	0.140	0.581
6.34	360090	BB	0.145	0.332
7.37	949680	BB	0.139	0.875
7.76	333290	BB	0.119	0.307
8.05	172840	BB	0.112	0.159
9.39	192390	VB	0.124	0.177
10.24	243660	BB	0.142	0.225
12.49	209240	PB	0.142	0.193
14.72	471730	BB	0.378	0.435
15.27	379770	BB	0.265	0.350
17.42	456650	BB	0.345	0.421
19.40	166560	BB	0.321	0.154
20.53	516360	PB	0.431	0.476
23.56	647000	BB	0.108	0.596
23.92	3.4683E+07	SPB	0.139	31.972
25.29	171340	BB	0.423	0.158
26.96	331650	PB	0.643	0.306

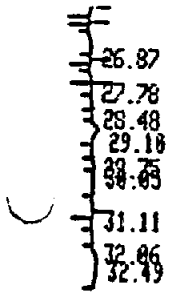
TOTAL AREA= 1.0848E+08
MUL FACTOR= 1.0000E+00

TOTAL AREA= 1.0848E+08
MUL FACTOR= 1.0000E+00



1232
250ppb

RUN # 1095 JUN/21/90 21:07:41
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 17



RUN # 1095 JUN/21/90 21:07:41
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 17

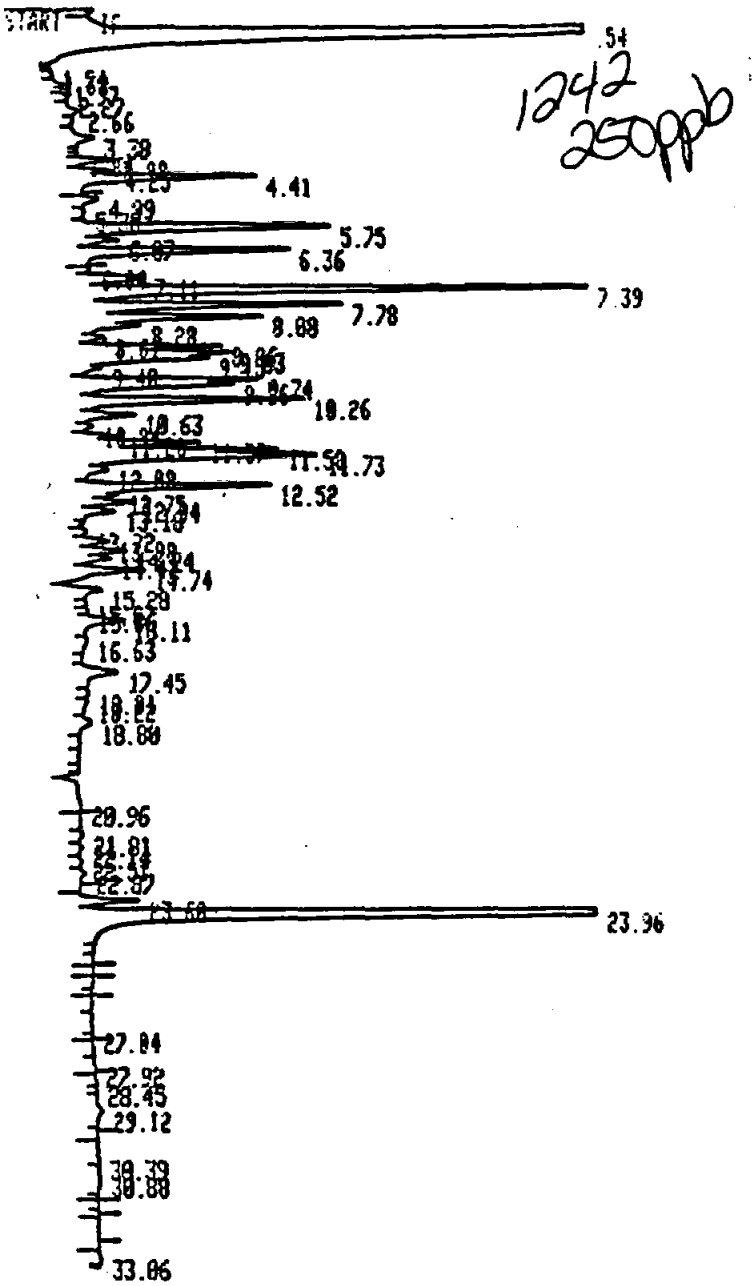
AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.54	6.0606E+07	SBB	0.153	49.278
2.25	604130	PB	0.137	0.491
3.38	325890	BB	0.129	0.265
3.97	873970	BB	0.123	0.711
4.25	247660	BB	0.074	0.201
4.40	2604800	BB	0.121	2.118
5.75	2901100	BB	0.167	2.359
6.06	164430	BB	0.106	0.134
6.35	1808600	BB	0.133	1.471
7.09	559540	BB	0.168	0.455
7.38	5395900	BB	0.143	4.387
7.77	1949300	BB	0.123	1.585
8.07	1059300	BB	0.110	0.861
8.85	552530	BB	0.090	0.449
9.02	239150	BB	0.075	0.195
9.72	429670	BB	0.073	0.349
10.25	1776700	BB	0.134	1.445
10.62	356090	BB	0.123	0.290
11.36	483640	BB	0.098	0.393
11.57	492110	BB	0.082	0.400
11.72	712420	BB	0.094	0.579
12.51	1313400	BB	0.125	1.068
12.93	186980	PB	0.106	0.152
13.17	189780	BB	0.149	0.154
14.23	158050	BB	0.106	0.129
14.73	397940	BB	0.131	0.324
16.10	314930	VB	0.174	0.256
17.43	391010	PB	0.217	0.318
18.79	164990	VB	0.212	0.134
20.45	332240	PB	0.335	0.270
23.58	750570	PB	0.125	0.610
23.94	3.4231E+07	SPB	0.138	27.833
29.10	179200	VB	0.255	0.146
32.49	234640	BB	0.561	0.191

TOTAL AREA= 1.2299E+08
MUL FACTOR= 1.0000E+00

AR100338

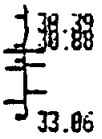
TOTAL AREA= 1.2299E+08
MUL FACTOR= 1.0000E+00



RUN # 1096 JUN/21/90 21:44:47
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 18

AR100330

AR100339



..JN # 1096 JUN/21/90 21:44:47
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 18

AREA%

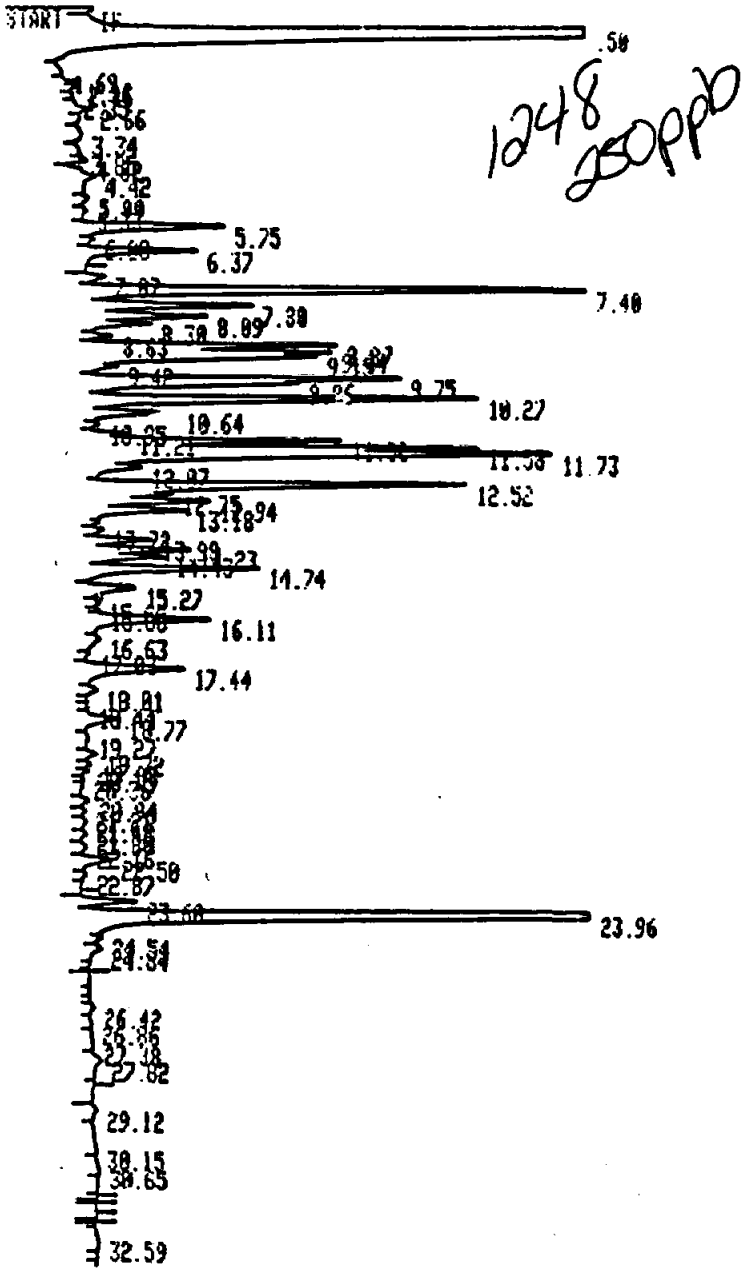
RT	AREA	TYPE	AR/HT	AREA%
0.54	6.0647E+07	SBB	0.162	42.988
3.38	323730	PB	0.151	0.230
3.98	456130	BB	0.118	0.323
4.25	165410	BB	0.069	0.117
4.41	2183000	BB	0.123	1.547
4.99	238990	PB	0.125	0.169
5.75	4440000	BB	0.163	3.147
6.07	310660	BB	0.109	0.220
6.36	3016400	BB	0.133	2.138
7.11	968800	BB	0.169	0.687
7.39	8859000	BB	0.145	6.280
7.78	3288700	BB	0.125	2.331
8.08	1735000	BB	0.109	1.230
8.28	173600	BB	0.070	0.123
8.61	151540	BB	0.096	0.107
8.86	898610	BB	0.088	0.637
9.03	420800	BB	0.075	0.298
9.15	210880	BB	0.059	0.150
9.74	687110	BB	0.071	0.487
10.26	3297900	BB	0.137	2.338
10.63	645450	BB	0.126	0.458
11.20	156970	BB	0.075	0.111
11.37	886260	BB	0.098	0.628
11.58	834960	BB	0.082	0.592
11.73	1356300	BB	0.098	0.961
12.52	2464500	BB	0.128	1.747
12.94	402780	BB	0.107	0.286
13.18	333770	BB	0.115	0.237
13.98	276410	BB	0.112	0.196
14.24	375760	BB	0.106	0.266
14.42	211370	BB	0.112	0.150
14.74	1425100	BB	0.187	1.010
15.28	654970	BB	0.193	0.464
16.11	688880	BB	0.161	0.488
17.45	741020	PB	0.195	0.525
18.30	220190	BB	0.213	0.156
20.36	659030	PB	1.296	0.467
23.60	757170	PB	0.126	0.537
23.96	3.5360E+07	SPB	0.141	25.064
29.12	153840	PB	0.261	0.109

TOTAL AREA= 1.4108E+08
MUL FACTOR= 1.0000E+00

AR100340

29.12	153840	PB	0.261	0.109

TOTAL AREA= 1.4188E+08
MUL FACTOR= 1.0000E+00



RUN # 1097 JUN/21/90 22:21:55
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 19

AR100341

RUN # 1097 JUN/21/90 22:21:55
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 19

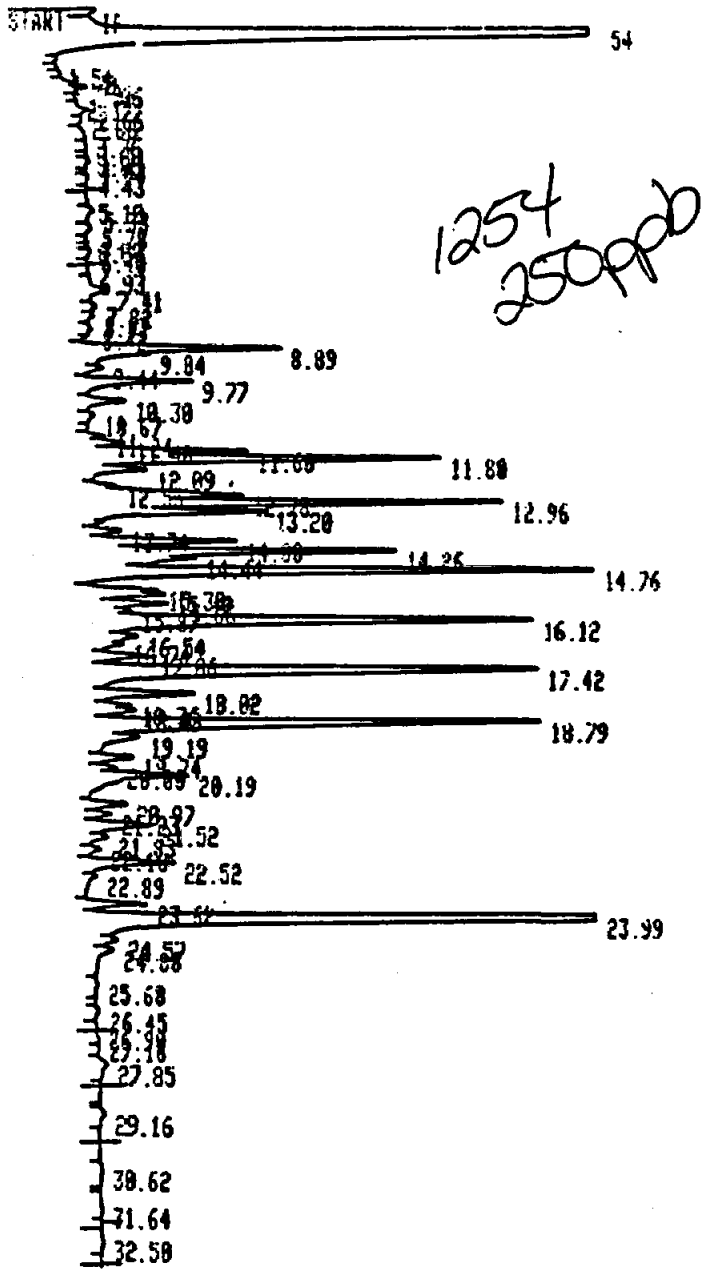
A%

RT	AREA	TYPE	AR/HT	AREA%
8.50	8.5849E+07	†SBB	0.186	48.905
3.34	269620	PB	0.305	0.154
4.02	190380	BB	0.113	0.109
4.42	847350	BB	0.335	0.483
5.75	2503200	BB	0.158	1.426
6.37	1684100	BB	0.136	0.959
7.07	268130	PB	0.136	0.153
7.40	8486300	BB	0.146	4.834
7.80	2055500	BB	0.126	1.171
8.09	1114100	BB	0.107	0.635
8.30	466760	BB	0.102	0.266
8.63	232440	BB	0.099	0.132
8.87	1789200	BB	0.091	1.019
9.04	576520	BB	0.070	0.328
9.15	484980	BB	0.070	0.276
9.75	1668300	BB	0.082	0.950
10.27	5888600	BB	0.138	3.355
10.64	1056300	BB	0.123	0.602
11.38	2070800	BB	0.100	1.180
11.58	1635700	BB	0.082	0.932
11.73	2766500	BB	0.102	1.576
12.07	197710	BB	0.079	0.113
12.52	4819500	BB	0.126	2.746
12.94	944600	BB	0.107	0.538
13.18	994070	BB	0.119	0.566
13.98	673460	BB	0.114	0.384
[illegible].23	841700	BB	0.104	0.480
[illegible].43	588910	BB	0.110	0.336
14.74	2795300	BB	0.151	1.592
15.27	859790	BB	0.160	0.490
16.11	2094100	BB	0.164	1.193
16.63	164130	BB	0.200	0.094
17.44	2221100	BB	0.199	1.265
18.77	694950	BB	0.189	0.396
22.50	545900	BB	0.163	0.311
23.60	742730	PB	0.126	0.423
23.96	3.4083E+07	SPB	0.140	19.415
24.84	150820	BB	0.154	0.086
27.82	228610	BB	0.227	0.130

TOTAL AREA= 1.7554E+08
[illegible]L FACTOR= 1.0000E+00

AR100342

TOTAL AREA= 1.7554E+08
MUL FACTOR= 1.0000E+00



1254
250ppb

RUN # 1098 JUN/21/90 22:58:33
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 20

AR100

AR100343

32.50

RUN # 1098 JUN/21/90 22:58:33
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 20

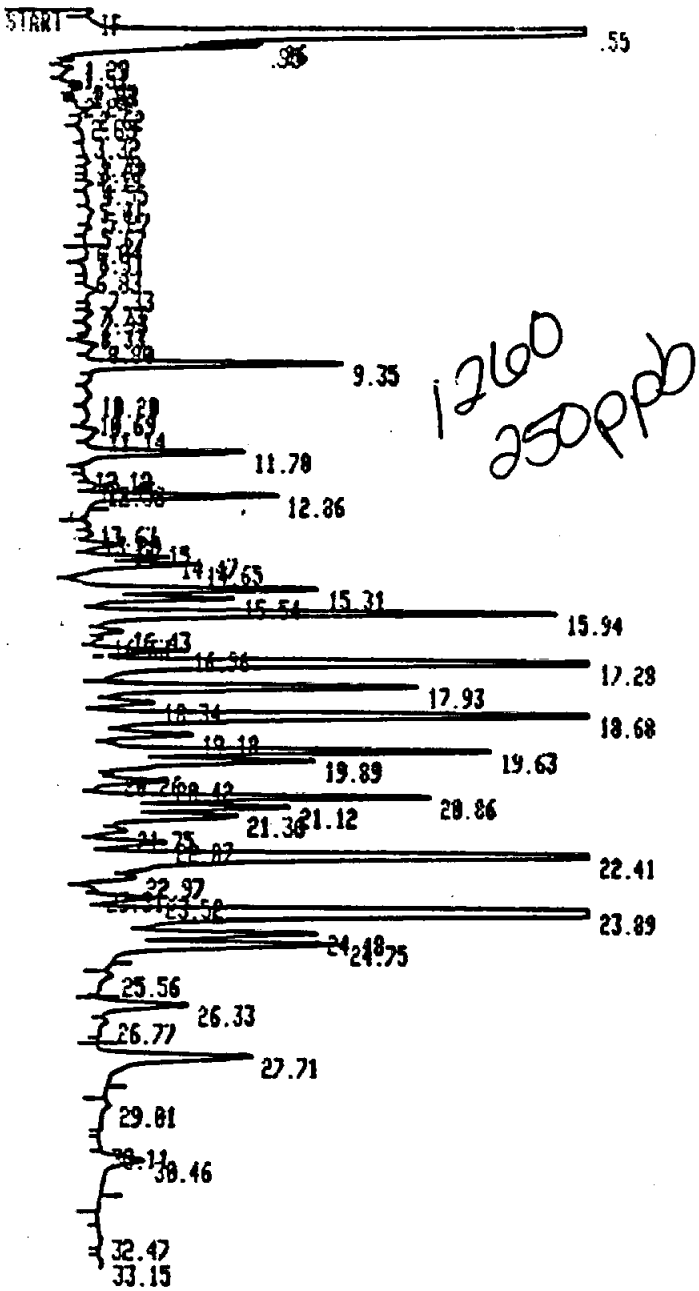
AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.54	5.9859E+07	SBB	0.156	36.407
7.41	353670	BB	0.175	0.215
8.89	1926700	PB	0.105	1.172
9.77	1759800	BB	0.146	1.070
10.30	584440	BB	0.137	0.356
11.40	230770	BB	0.091	0.140
11.60	1013200	BB	0.092	0.616
11.80	3837900	BB	0.120	2.334
12.09	401300	BB	0.094	0.244
12.78	1215000	BB	0.137	0.739
12.96	4257400	BB	0.115	2.589
13.20	1445800	BB	0.107	0.879
13.74	336650	PB	0.114	0.205
14.00	1577400	BB	0.115	0.959
14.26	3081600	BB	0.112	1.874
14.44	283500	BB	0.096	0.172
14.76	8282100	BB	0.145	5.037
15.00	157400	BB	0.063	0.096
15.42	295100	BB	0.092	0.180
15.66	669680	BB	0.116	0.407
16.12	8697800	BB	0.188	5.290
16.54	202160	BB	0.106	0.123
17.06	693040	BB	0.128	0.422
17.42	9816200	BB	0.199	5.970
18.02	1388400	BB	0.138	0.844
18.49	190870	BB	0.103	0.116
18.79	8512100	BB	0.175	5.177
19.19	252420	BB	0.109	0.154
19.74	475620	BB	0.124	0.289
20.19	1453900	BB	0.157	0.884
20.97	500880	BB	0.130	0.305
21.23	215410	BB	0.115	0.131
21.52	977100	BB	0.162	0.594
22.18	171030	BB	0.143	0.104
22.52	1495500	BB	0.159	0.910
23.62	801490	BB	0.125	0.488
23.99	3.6770E+07	SPB	0.141	22.364
27.85	233870	PB	0.233	0.142

TOTAL AREA= 1.6442E+08
MUL FACTOR= 1.0000E+00

AR100344

TOTAL AREA= 1.6442E+08
MUL FACTOR= 1.0000E+00



1260
250ppb

RUN # 1099 JUN/21/90 23:35:16
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 21

AR100345

AR100345

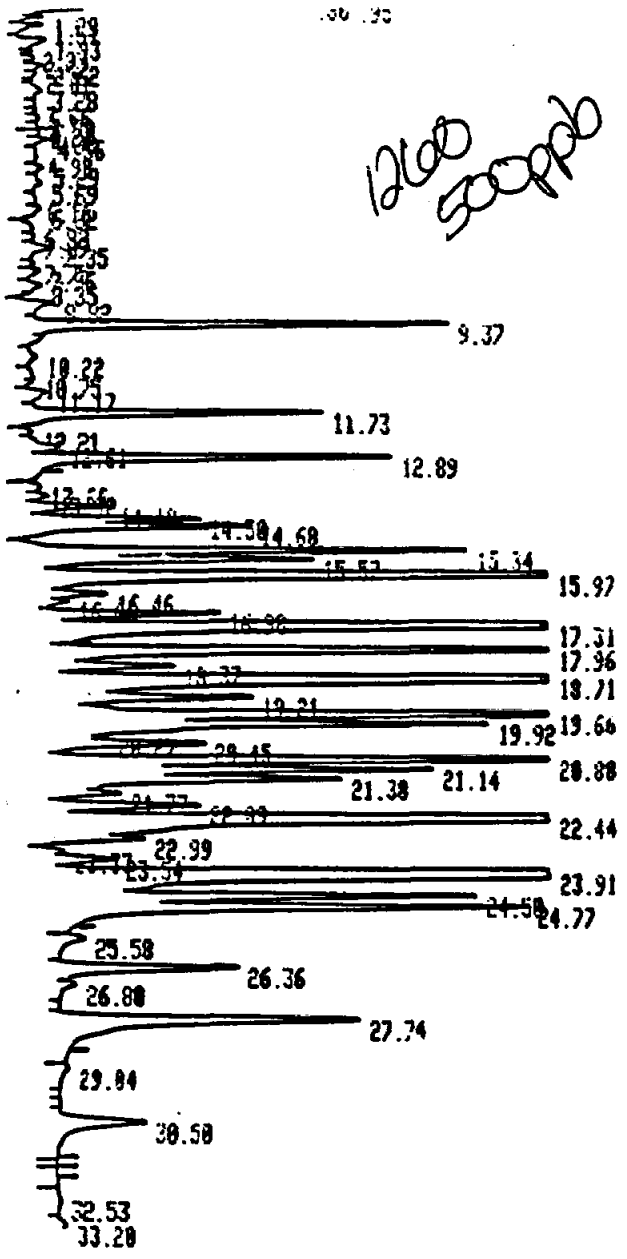
RUN # 1099 JUN/21/90 23:35:16
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 21

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.55	4.8657E+07	SBB	0.136	24.760
0.86	303520	BB	0.046	0.155
1.51	178750	BB	0.130	0.091
2.62	153330	PB	0.120	0.078
6.31	187340	BB	0.335	0.095
7.33	224130	PB	0.159	0.114
8.80	338010	PB	0.177	0.172
9.35	3711400	BB	0.138	1.889
10.20	164690	PB	0.254	0.084
10.69	224390	BB	0.350	0.114
11.14	329100	BB	0.193	0.168
11.70	2709000	BB	0.149	1.379
12.58	171650	BB	0.146	0.087
12.86	2877200	BB	0.134	1.464
14.15	529870	BB	0.128	0.270
14.47	634050	BB	0.094	0.323
14.65	1167300	BB	0.125	0.594
15.31	2593200	BB	0.113	1.320
15.54	1423300	BB	0.113	0.724
15.94	7941100	BB	0.152	4.041
16.43	277700	BB	0.107	0.141
16.96	1218500	BB	0.128	0.620
17.28	1.2371E+07	BB	0.166	6.296
17.93	5421700	PB	0.154	2.759
18.34	740070	BB	0.131	0.377
18.68	1.1674E+07	BB	0.176	5.941
19.18	1173600	BB	0.133	0.597
19.63	5084200	BB	0.128	2.587
19.89	2669500	BB	0.141	1.358
20.42	844890	BB	0.127	0.430
20.86	4456100	BB	0.130	2.268
21.12	1798600	BB	0.115	0.915
21.36	1468500	BB	0.135	0.747
21.75	279130	BB	0.118	0.142
22.07	1107600	BB	0.145	0.564
22.41	1.5368E+07	BB	0.180	7.820
22.97	380530	BB	0.132	0.194
23.52	812940	BB	0.126	0.414
23.89	4.1995E+07	SPB	0.153	21.370
24.48	2428100	BB	0.128	1.236
24.75	3073000	BB	0.140	1.564
26.33	1720100	PB	0.175	0.875
27.71	4256300	PB	0.251	2.166
30.46	1376300	BB	0.283	0.700

TOTAL AREA= 1.9651E+08
MUL FACTOR= 1.0000E+00

AR100346



RUN # 1100 JUN/22/90 00:12:01
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 22

AR100347

AR100347

RUN # 1100 JUN/22/90 00:12:01
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 22

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.54	5.1532E+07	SBB	0.134	17.510
0.86	556080	BB	0.044	0.189
0.95	745380	BB	0.044	0.253
1.51	301490	BB	0.114	0.102
1.93	403710	BB	0.155	0.137
3.28	155500	PB	0.153	0.053
6.32	316460	BB	0.282	0.108
6.82	150720	BB	0.236	0.051
7.35	378260	BB	0.161	0.129
7.96	197020	BB	0.154	0.067
8.35	162060	BB	0.128	0.055
8.82	612590	PB	0.172	0.208
9.37	6404600	BB	0.138	2.176
10.22	249250	PB	0.236	0.085
11.17	453610	PB	0.194	0.154
11.73	5027400	BB	0.150	1.708
12.61	384780	BB	0.158	0.131
12.89	5405600	BB	0.137	1.837
14.18	1044100	BB	0.130	0.355
14.50	1181700	BB	0.094	0.402
14.68	1976000	BB	0.113	0.671
15.34	4640400	BB	0.110	1.577
15.52	2710100	BB	0.116	0.921
15.97	1.4622E+07	BB	0.155	4.969
16.46	551470	BB	0.109	0.187
16.98	2322800	BB	0.129	0.789
17.31	2.2482E+07	BB	0.167	7.639
17.96	1.0233E+07	PB	0.156	3.477
18.37	1437300	BB	0.131	0.488
18.71	2.1843E+07	BB	0.177	7.422
19.21	2215200	BB	0.132	0.753
19.66	9443700	BB	0.129	3.209
19.92	4994200	BB	0.138	1.697
20.45	1647000	BB	0.126	0.560
20.88	8496200	BB	0.131	2.887
21.14	3385600	BB	0.114	1.150
21.38	2846900	BB	0.133	0.967
21.77	506050	BB	0.119	0.172
22.09	2167300	BB	0.145	0.736
22.44	2.9176E+07	BB	0.182	9.914
22.99	755670	BB	0.134	0.257
23.54	715780	BB	0.126	0.243
23.91	4.3574E+07	SPB	0.166	14.806
24.50	4750500	BB	0.129	1.614
24.77	5970000	BB	0.139	2.029
25.58	333130	BB	0.164	0.113
26.36	3437400	BB	0.173	1.168
27.74	8483400	PB	0.251	2.883
30.50	2731600	VB	0.279	0.928
33.20	189550	I BH	0.195	0.064

656041000

TOTAL AREA= 2.9430E+08
FACTOR= 1.0000E+00

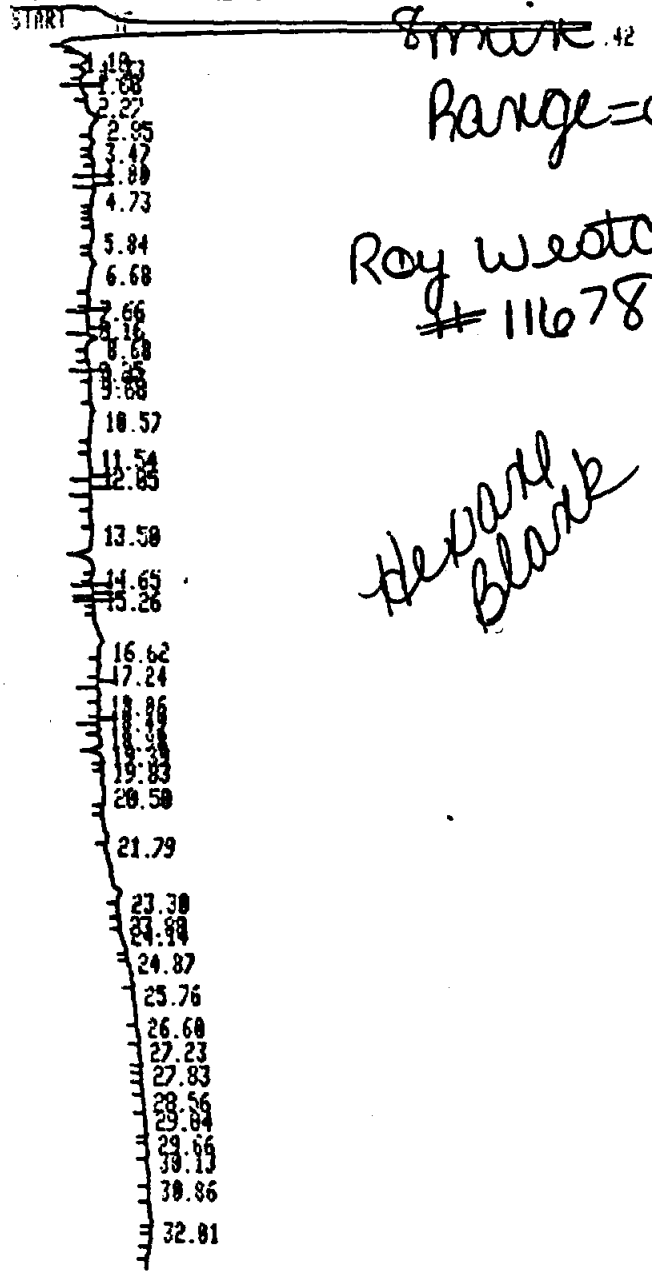
AR100348

STOP

WAITING FOR READY

START

150 @ 2 min
3°/min 220°
8 min



Range=0

Roy Weston
#11678

Hexane Blank

Samples and bracketing standards

Quantitative Column

RUN # 1195 JUN/27/90 09:23:25
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 12

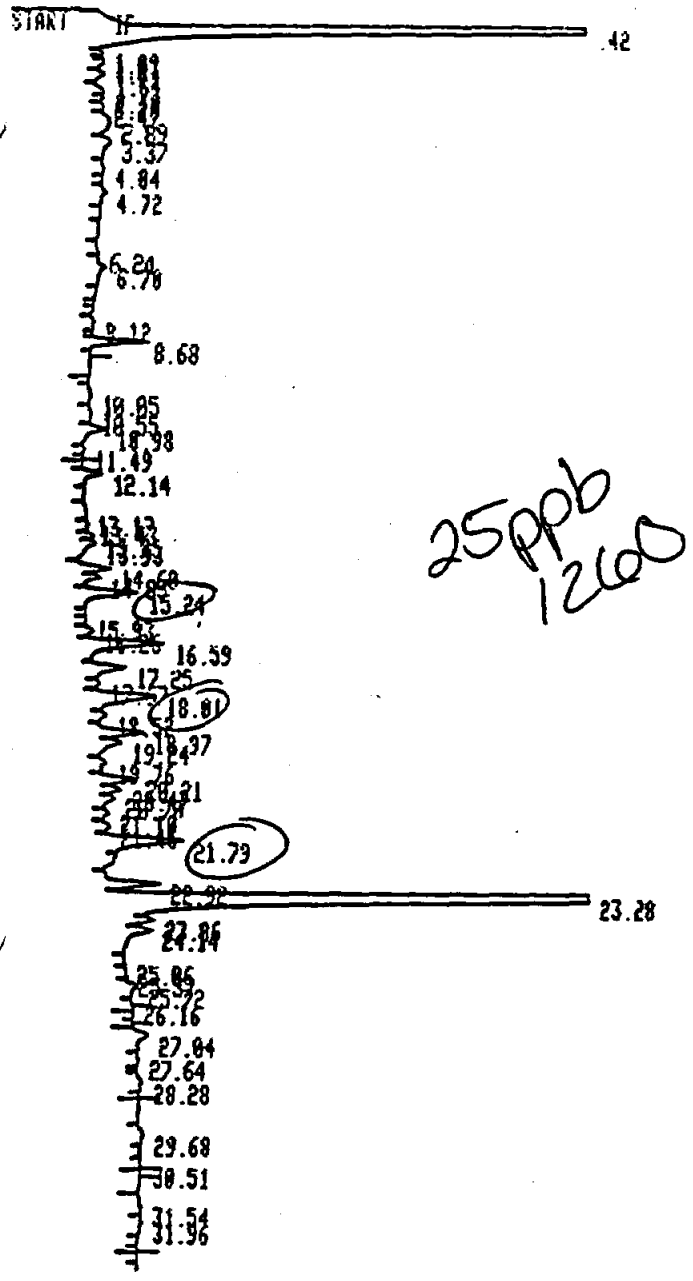
AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.42	3.9014E+07	SBB	0.130	95.708
1.33	274990	BB	0.198	0.675
2.85	346420	BB	0.309	0.850
6.68	244840	VB	0.375	0.601
10.57	176460	VB	0.389	0.433
14.65	225950	PB	0.392	0.554
16.62	255940	PB	0.399	0.628
19.39	225100	BB	0.266	0.552

TOTAL AREA= 4.0764E+07
MUL FACTOR= 1.0000E+00

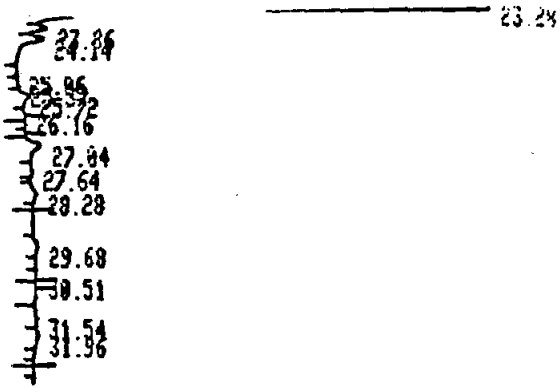
AR100349

AR100



RUN # 1196 JUN/27/90 10:00:19
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 13

AR100350



RUN # 1196 JUN/27/90 10:00:19
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 13

AREA%,

RT	AREA	TYPE	AR/HT	AREA%
0.42	4.8444E+07	†SPB	0.112	49.439
2.89	357770	BB	0.363	0.365
3.37	250740	BB	0.248	0.256
6.70	229900	BB	0.244	0.235
8.68	741740	VB	0.126	0.757
10.98	356750	BB	0.166	0.364
12.14	321020	PB	0.142	0.328
13.93	201200	BB	0.211	0.205
14.60	337120	BB	0.129	0.344
15.24	1033200	BB	0.171	1.054
16.59	1667800	BB	0.195	1.702
17.25	660360	BB	0.181	0.674
18.01	1491700	BB	0.224	1.522
18.97	558890	BB	0.133	0.570
19.24	272560	BB	0.166	0.278
19.76	153510	BB	0.178	0.157
20.21	451040	BB	0.141	0.460
21.79	1615000	BB	0.193	1.648
22.92	722970	PB	0.136	0.738
23.28	3.7142E+07	SPB	0.161	37.905
23.86	184670	BB	0.124	0.189
24.14	212180	BB	0.111	0.217
25.72	193850	BB	0.203	0.198
27.04	387090	BB	0.251	0.395

4139900

TOTAL AREA= 9.7987E+07
NUL FACTOR= 1.0000E+00

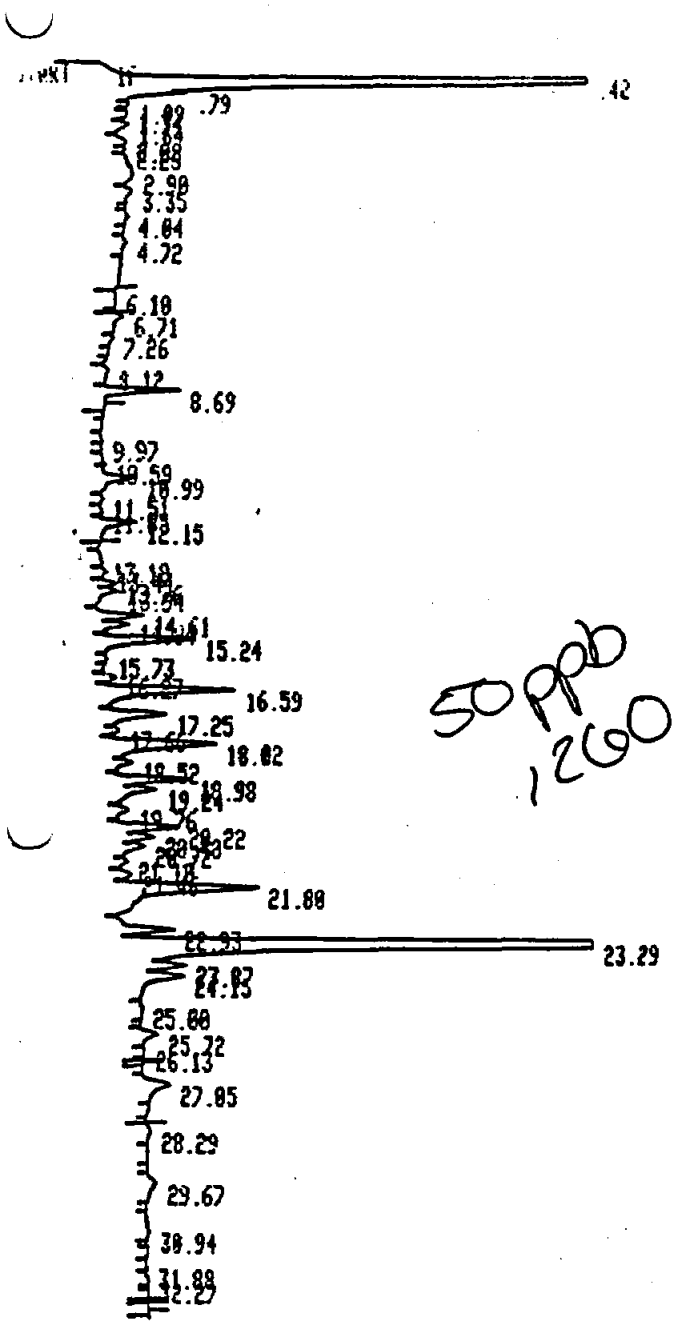
AR100

AR100351

27.04 387090 BB 0.251 0.395

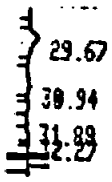
4139900

TOTAL AREA= 9.7987E+07
MUL FACTOR= 1.0000E+00



50 ppb
1260

RUN # 1197 JUN/27/90 10:37:18
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 14



RUN # 1197 JUN/27/90 10:37:18
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 14

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.42	4.8907E+07	†SBB	0.109	44.593
1.64	173510	BB	0.154	0.158
2.90	580150	BB	0.521	0.529
3.35	164270	BB	0.213	0.150
6.71	197680	BB	0.190	0.180
8.12	206440	PB	0.265	0.188
8.69	1115900	BB	0.128	1.018
10.99	711870	BB	0.182	0.649
12.15	658070	BB	0.158	0.600
13.94	171710	BB	0.122	0.157
14.61	491790	BB	0.118	0.448
14.84	270510	BB	0.123	0.247
15.24	1783300	BB	0.171	1.626
16.27	201540	PB	0.136	0.184
16.59	2853300	BB	0.194	2.602
17.25	1115500	BB	0.176	1.017
18.02	2558100	BB	0.221	2.332
18.52	196180	BB	0.139	0.179
18.98	954150	BB	0.135	0.870
19.24	426020	BB	0.145	0.388
19.76	196130	BB	0.160	0.179
20.22	788020	BB	0.140	0.719
20.48	251030	BB	0.117	0.229
20.72	220350	BB	0.138	0.201
21.46	172730	BB	0.154	0.158
21.80	4245700	BB	0.273	3.871
22.93	818940	BB	0.152	0.747
23.29	3.6994E+07	SPB	0.162	33.732
23.87	375440	BB	0.129	0.342
24.15	419010	BB	0.122	0.382
25.72	368060	PB	0.197	0.336
27.05	736140	PB	0.264	0.671
29.67	350840	VB	0.334	0.320

8587100

TOTAL AREA= 1.0967E+08
MUL FACTOR= 1.0000E+00

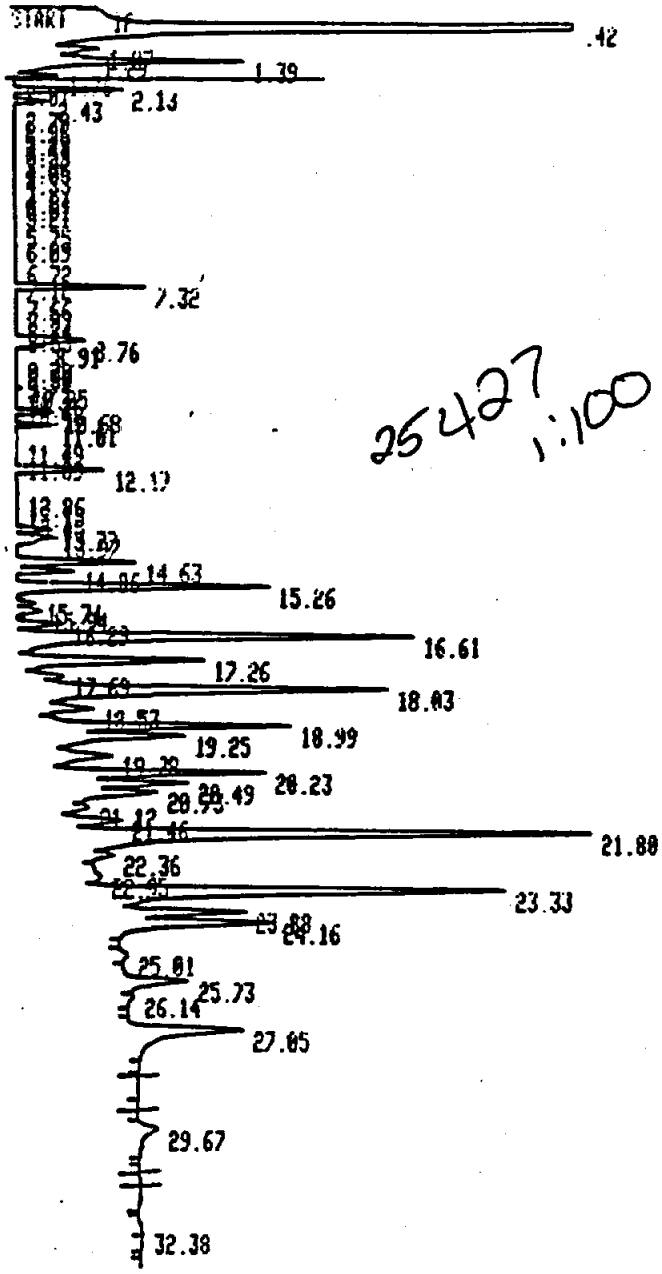
AR10035

AR100353

25.72	366860	PB	0.197	0.336
27.05	736140	PB	0.264	0.671
29.67	350840	VB	0.334	0.320

8587100

TOTAL AREA= 1.0967E+08
MUL FACTOR= 1.0000E+00



25427
1:100

RUN # 1198 JUN/27/90 11:14:17
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 15

AR100354

SAMPLE # 10

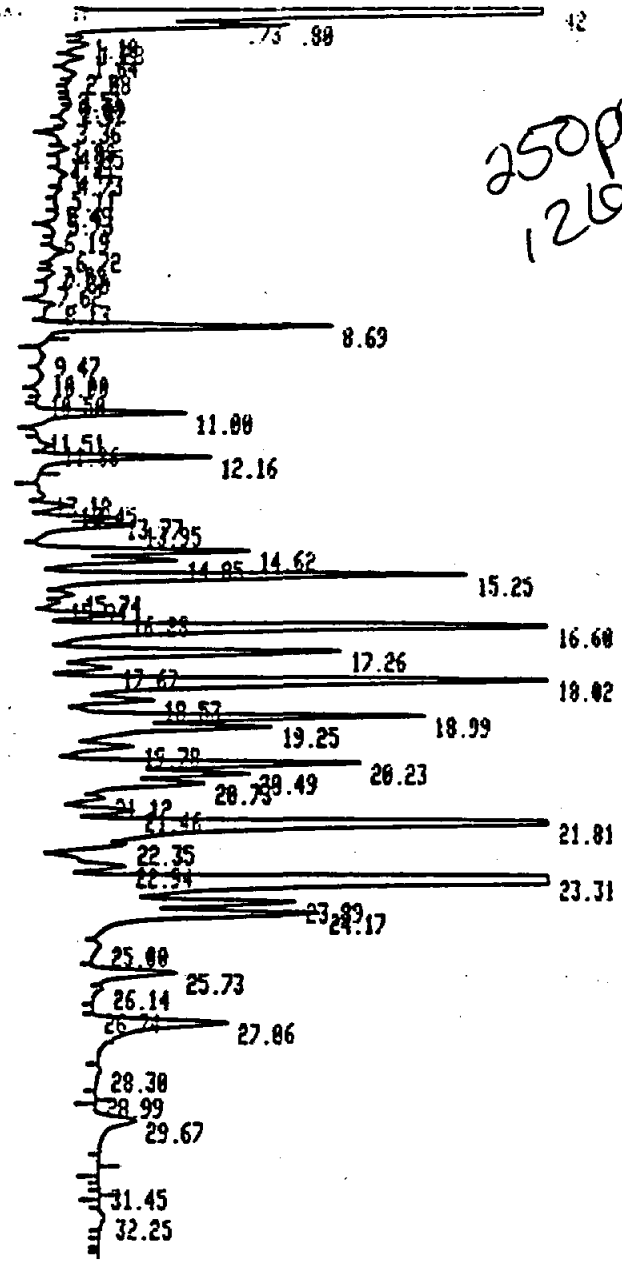
AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.42	4.6234E+07	SBB	0.122	34.533
1.07	399400	BB	0.112	0.298
1.39	2075000	BB	0.109	1.550
1.76	414420	BB	0.088	0.310
2.13	1551700	BB	0.116	1.159
2.43	768000	BB	0.131	0.574
2.96	527890	BB	0.169	0.394
4.33	177520	BB	0.178	0.133
4.84	395160	BB	0.225	0.295
5.21	199670	BB	0.129	0.149
5.75	382990	BB	0.216	0.286
6.09	663090	BB	0.290	0.495
6.72	744810	BB	0.170	0.556
7.12	183910	BB	0.095	0.137
7.32	2856000	BB	0.139	2.133
8.24	715070	BB	0.190	0.534
8.76	1119100	BB	0.151	0.836
9.50	167120	BB	0.112	0.125
10.05	637700	BB	0.139	0.476
10.68	971410	BB	0.149	0.726
11.01	981150	BB	0.124	0.733
11.49	190310	BB	0.200	0.142
12.17	2178500	BB	0.174	1.627
13.15	394490	BB	0.162	0.295
13.45	200190	BB	0.117	0.150
13.77	427430	BB	0.109	0.319
13.97	831930	BB	0.216	0.621
14.63	1542300	BB	0.121	1.152
14.86	646560	BB	0.113	0.483
15.26	4783800	BB	0.161	3.573
15.74	158730	BB	0.105	0.119
15.94	297370	BB	0.141	0.222
16.29	593510	BB	0.126	0.443
16.61	7850400	BB	0.177	5.864
17.26	3116600	BB	0.158	2.328
17.69	203870	BB	0.116	0.152
18.03	7140500	BB	0.189	5.333
18.53	585150	BB	0.134	0.437
18.99	3171100	BB	0.131	2.369
19.25	1510000	BB	0.138	1.128
19.78	917390	BB	0.171	0.685
20.23	2764300	BB	0.135	2.065
20.49	1056600	BB	0.117	0.789
20.73	829580	BB	0.134	0.620
21.46	701500	BB	0.147	0.524
21.80	1.1651E+07	BB	0.193	8.702
22.36	186170	BB	0.124	0.139
23.33	8727800	BB	0.193	6.519
23.88	1532700	BB	0.133	1.145
24.16	2214200	BB	0.151	1.654
25.01	152180	PB	0.188	0.114
25.73	1166800	BB	0.173	0.872
27.05	3337400	PB	0.264	2.493
29.67	659850	PB	0.307	0.493

23575300

TOTAL AREA= 1.3388E+08
NUL FACTOR= 1.0000E+00

AR100355



250 ppb
1260

RUN # 1199 JUN/27/90 11:51:17
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 16

AR100356

RUN # 1199 JUN/27/90 11:51:17
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 16

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.42	4.5132E+07	↑SBB	0.105	24.040
0.80	453590	BB	0.045	0.242
1.28	214570	BB	0.128	0.114
1.64	282820	BB	0.139	0.151
3.88	209190	PB	0.401	0.111
5.73	203080	BB	0.303	0.108
6.72	316290	PB	0.174	0.169
7.62	283380	BB	0.494	0.151
8.13	450140	BB	0.210	0.240
8.69	4507200	BB	0.138	2.401
10.00	282500	BB	0.354	0.151
11.00	2945900	VB	0.168	1.569
11.86	154310	BB	0.115	0.082
12.16	2883600	BB	0.150	1.536
13.18	177750	BB	0.222	0.095
13.45	478330	BB	0.137	0.255
13.77	523390	BB	0.095	0.279
13.95	735740	BB	0.105	0.392
14.62	2238400	BB	0.116	1.192
14.85	1241900	BB	0.122	0.662
15.25	8032800	BB	0.171	4.279
15.74	208380	BB	0.111	0.111
16.28	1035700	BB	0.136	0.552
16.60	1.2427E+07	BB	0.191	6.619
17.26	5296300	BB	0.172	2.821
17.67	628560	BB	0.136	0.335
18.02	1.1617E+07	BB	0.212	6.188
18.53	967370	BB	0.140	0.515
18.99	4471800	BB	0.134	2.382
19.25	1857900	BB	0.131	0.990
19.78	838050	BB	0.147	0.446
20.23	3863800	BB	0.141	2.058
20.49	1271500	BB	0.119	0.677
20.73	1071000	BB	0.137	0.571
21.12	230780	BB	0.122	0.123
21.46	895870	BB	0.152	0.477
21.81	1.5665E+07	BB	0.213	8.344
22.35	405690	BB	0.172	0.216
22.94	1197900	BB	0.208	0.638
23.31	3.9446E+07	SPB	0.171	21.011
23.89	2069500	BB	0.136	1.102
24.17	2374300	BB	0.131	1.265
25.00	192440	BB	0.268	0.103
25.73	1748000	BB	0.192	0.931
27.06	4705200	BB	0.311	2.506
29.67	1507000	BB	0.341	0.803

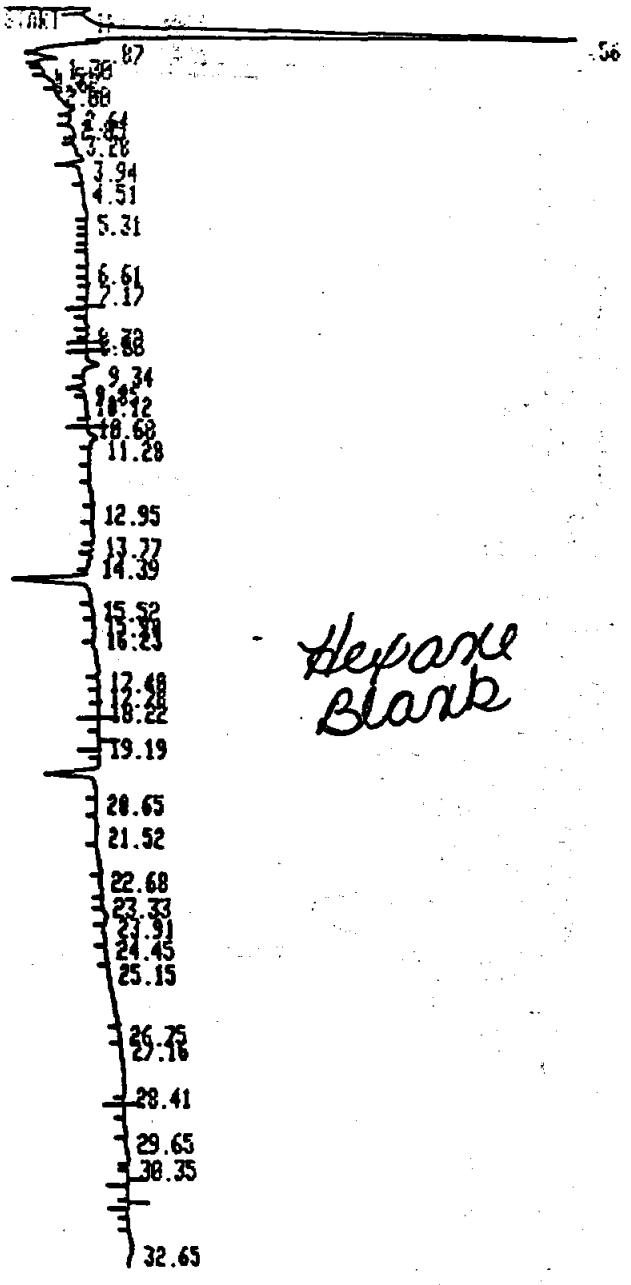
35,314,800

TOTAL AREA= 1.8774E+08
MUL FACTOR= 1.0000E+00

AR100357

Samples and bracketing standards

Quantitative Column



Hexane Blank

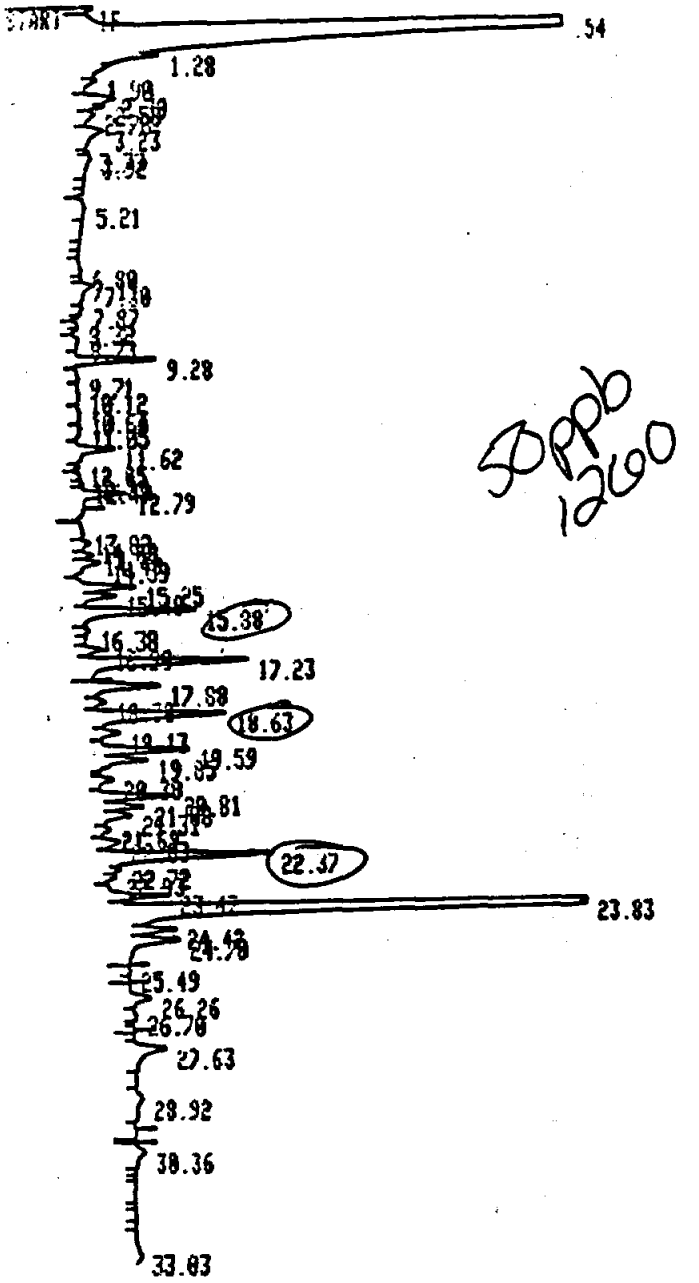
RUN # 1108 JUN/22/90 14:02:20
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 1

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.56	1.1046E+07	PB	0.139	68.140
1.30	225260	PB	0.094	1.390
3.94	514140	PB	0.275	3.172
4.51	314470	BB	1.406	1.940
9.34	255020	BB	0.166	1.573
11.28	163840	BB	0.181	[illegible]
15.52	1911200	PB	1.059	[illegible]
17.40	189430	BB	0.447	1.169
20.65	1118000	PB	0.931	6.896
28.41	178660	BB	1.023	1.102
32.65	294830	I VP	0.571	1.819

TOTAL AREA= 1.6211E+07

AR100358



50 ppb
1260

RUN # 1109 JUN/22/90 14:38:55
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 2

AR100

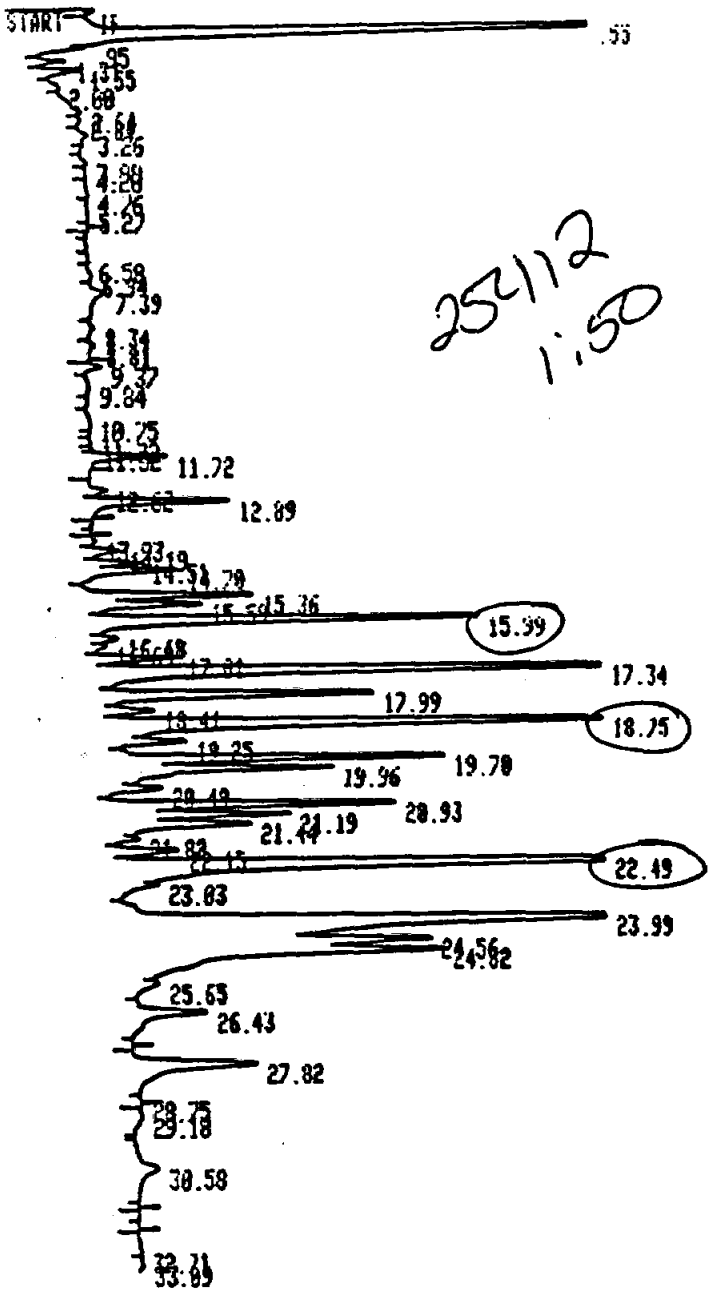
AR100359

RUN # 1109 JUN/22/90 14:38:55
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 2

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.54	4.2477E+07	SPB	0.212	40.681
1.28	210750	BB	0.098	0.202
2.39	328610	BB	0.171	0.315
3.23	419020	BB	0.214	0.401
5.21	291020	PB	0.355	0.279
7.30	286990	BB	0.207	0.275
9.28	1131400	BB	0.125	1.084
11.62	648750	BB	0.156	0.621
12.79	677470	BB	0.137	0.649
14.59	369240	BB	0.170	0.354
15.25	639230	BB	0.123	0.612
15.48	304640	BB	0.112	0.292
15.88	1932300	BB	0.155	1.851
16.90	246330	PB	0.125	0.236
17.23	3002700	BB	0.169	2.876
17.89	1187000	PB	0.159	1.137
18.30	158910	BB	0.133	0.152
18.63	2601900	BB	0.182	2.492
19.13	251800	BB	0.132	0.241
19.59	1089300	BB	0.125	1.044
19.85	561320	BB	0.139	0.538
20.38	206090	VB	0.142	0.197
20.81	936620	BB	0.129	0.897
21.08	370290	BB	0.114	0.355
21.31	307310	BB	0.139	0.294
22.03	269900	BB	0.147	0.259
22.37	2979700	BB	0.167	2.854
23.47	822510	BB	0.134	0.788
23.83	3.6795E+07	SPB	0.145	35.248
24.42	462460	BB	0.125	0.443
24.70	571530	BB	0.128	0.547
26.26	356390	PB	0.177	0.341
27.63	815920	PB	0.244	0.781
28.92	178960	VB	0.274	0.171
30.36	261110	BB	0.267	0.250
33.03	265210	I PP	0.494	0.254

TOTAL AREA= 1.0442E+08
MUL FACTOR= 1.0000E+00



RUN # 1112 JUN/22/90 16:27:51
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 5

AR100361

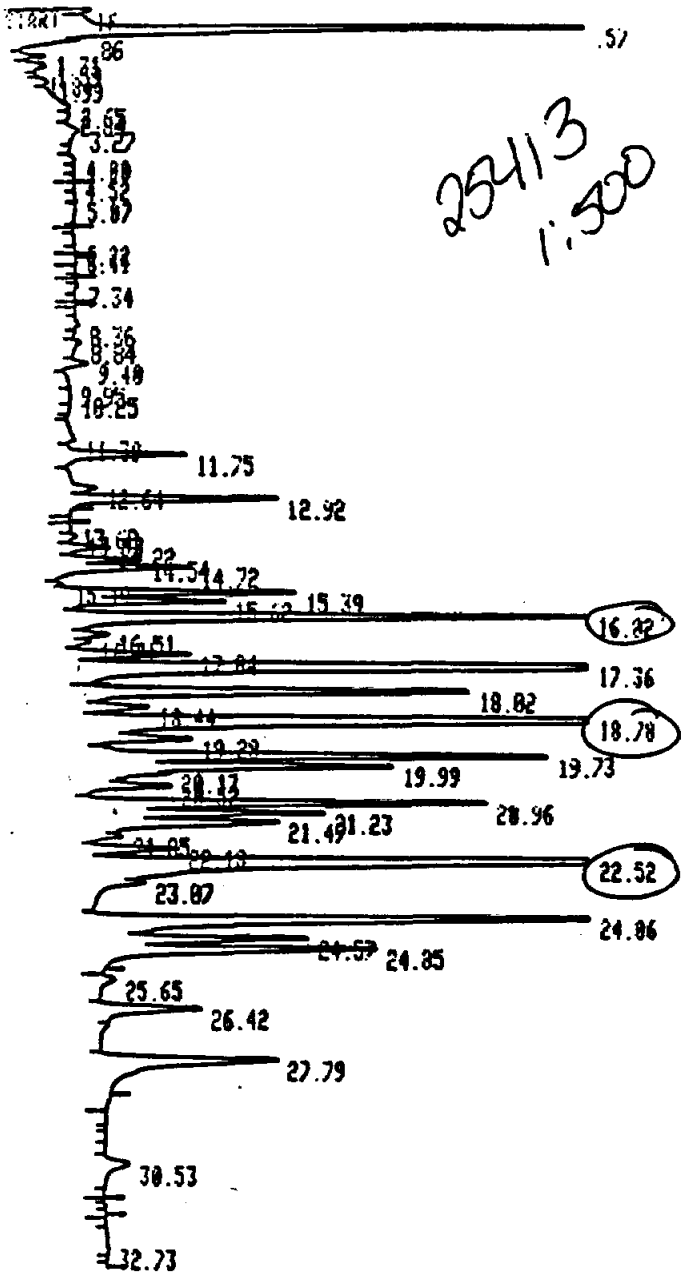
RUN # 1112 JUN/22/90 16:27:51
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 5

EA%

RT	AREA	TYPE	AR/HT	AREA%
0.55	1.8529E+07	SBB	0.135	15.645
1.31	296050	BB	0.095	0.250
1.55	587620	BB	0.135	0.496
3.26	175380	BB	0.162	0.148
7.39	447480	BB	0.255	0.378
9.37	192580	BB	0.123	0.163
11.72	1056080	BB	0.126	0.892
12.89	2080600	BB	0.138	1.757
14.19	395120	BB	0.126	0.334
14.51	372100	BB	0.090	0.314
14.70	1046080	BB	0.127	0.883
15.36	1707600	BB	0.108	1.442
15.59	1094800	BB	0.116	0.924
15.99	6760900	BB	0.157	5.709
16.48	210930	BB	0.110	0.178
17.01	1095500	BB	0.128	0.925
17.34	1.2480E+07	BB	0.172	10.538
17.99	4592300	BB	0.155	3.876
18.41	638410	BB	0.142	0.539
18.75	1.2321E+07	BB	0.183	10.404
19.25	756440	BB	0.128	0.639
19.70	4129200	BB	0.126	3.487
19.96	2609600	BB	0.137	2.204
20.49	474590	BB	0.117	0.401
20.93	3797100	BB	0.132	3.206
21.19	1584500	BB	0.115	1.338
21.44	1509100	BB	0.145	1.274
22.15	958670	BB	0.145	0.810
22.49	1.5999E+07	BB	0.188	13.509
23.99	1.1855E+07	BB	0.217	10.010
24.56	1591700	BB	0.131	1.344
25.65	175080	BB	0.170	0.148
26.43	2056100	BB	0.254	1.736
27.82	3714700	BB	0.272	3.137
29.18	152540	BB	0.376	0.129
30.58	987560	PB	0.407	0.834

TOTAL AREA= 1.1843E+08
MUL FACTOR= 1.0000E+00

AR100362



RUN # 1113 JUN/22/90 17:04:02
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 6

AR100363

AR100363

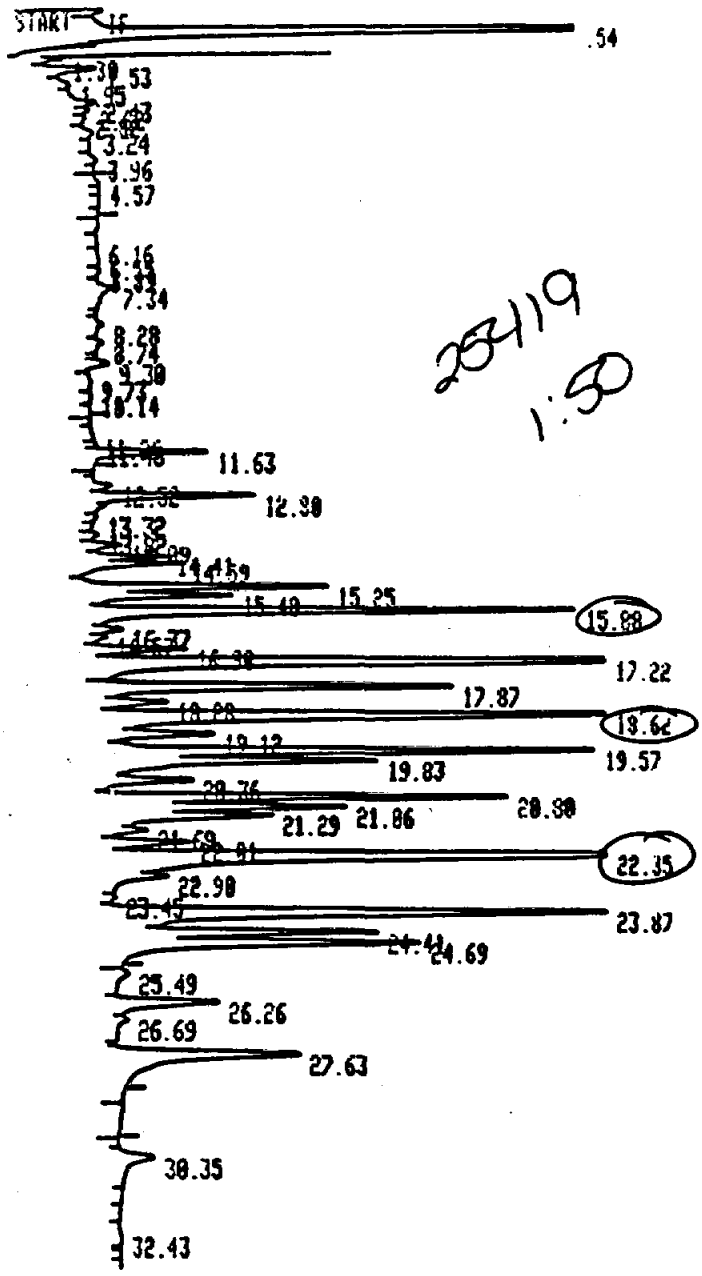
RUN # 1113 JUN/22/90 17:04:02
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 6

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.57	9944200	BB	0.121	6.941
1.31	203660	BB	0.083	0.146
1.59	283650	BB	0.155	0.198
3.27	265410	BB	0.212	0.185
9.40	332920	BB	0.148	0.232
11.39	274060	PB	0.338	0.191
11.75	1841400	BB	0.136	1.285
12.64	209930	BB	0.102	0.147
12.92	2815900	BB	0.126	1.966
14.22	527050	BB	0.120	0.368
14.54	576080	BB	0.092	0.402
14.72	1431500	BB	0.121	0.999
15.39	2675900	BB	0.115	1.868
15.62	1650500	BB	0.116	1.152
16.02	9448100	BB	0.156	6.595
16.51	315030	BB	0.109	0.220
17.04	1562000	BB	0.127	1.090
17.36	1.6638E+07	BB	0.166	11.613
18.02	6461900	BB	0.152	4.510
18.44	844340	BB	0.139	0.589
18.78	1.6662E+07	BB	0.179	11.630
19.28	1111000	BB	0.129	0.776
19.73	5720500	BB	0.125	3.993
19.99	2903900	BB	0.115	2.027
20.52	858230	VB	0.119	0.599
20.96	5319600	BB	0.130	3.713
21.23	2147400	BB	0.114	1.499
21.47	2223300	BB	0.147	1.552
21.85	184800	BB	0.104	0.129
22.18	1334600	BB	0.142	0.932
22.52	2.1483E+07	BB	0.183	14.995
24.06	1.0690E+07	BB	0.184	7.462
24.57	2273800	BB	0.125	1.587
24.85	3752600	BB	0.144	2.619
25.65	309790	BB	0.203	0.216
26.42	1956800	BB	0.177	1.366
27.79	5271700	PB	0.266	3.680
30.53	755950	PB	0.272	0.528

TOTAL AREA= 1.4327E+08
MUL FACTOR= 1.0000E+00

AR100364



RUN # 1114 JUN/22/90 17:40:17
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 7

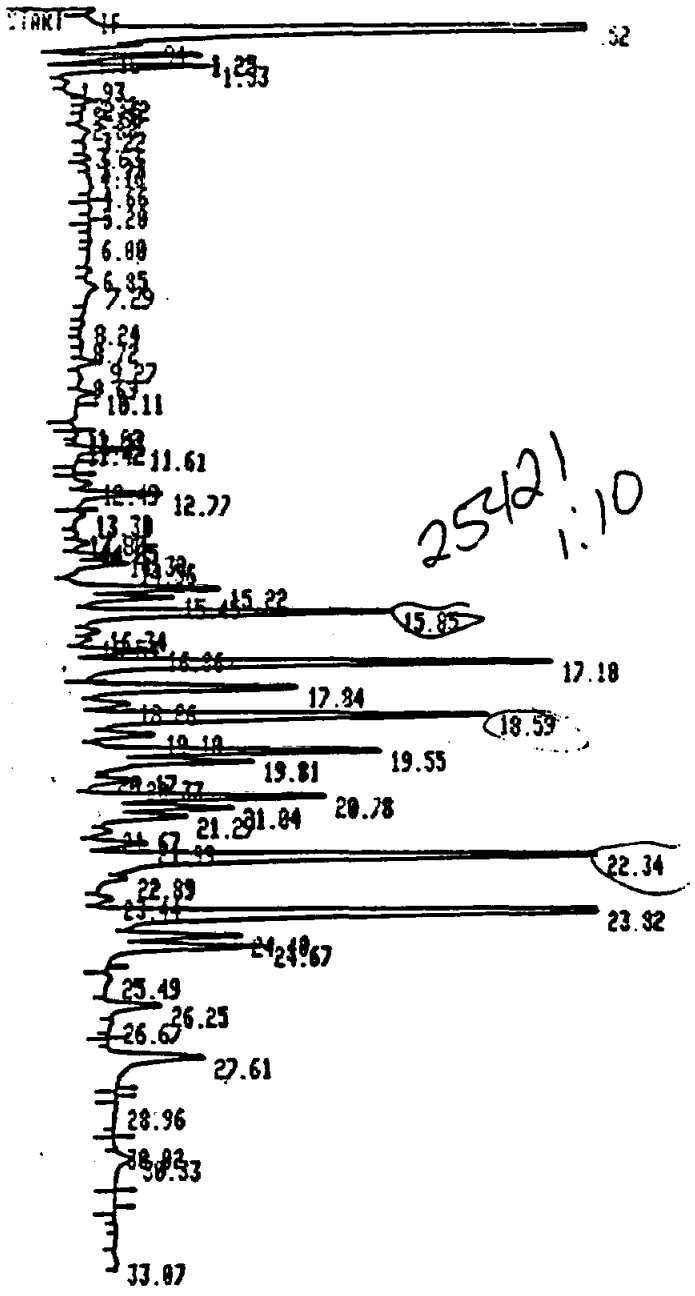
RUN # 1114 JUN/22/90 17:40:17
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 7

EA%

RT	AREA	TYPE	AR/HT	AREA%
0.54	1.9924E+07	SBB	0.130	14.170
1.30	209820	BB	0.090	0.149
1.53	750950	BB	0.137	0.534
7.34	431060	BB	0.241	0.307
9.30	327010	VB	0.152	0.233
11.63	1588100	BB	0.126	1.130
12.52	183200	PB	0.112	0.130
12.80	2088800	BB	0.123	1.486
14.09	373650	BB	0.116	0.266
14.41	564590	BB	0.091	0.402
14.59	923510	BB	0.115	0.657
15.25	2592300	BB	0.110	1.844
15.48	1348700	BB	0.113	0.959
15.88	8110700	BB	0.151	5.769
16.37	247370	BB	0.109	0.176
16.90	1243800	BB	0.127	0.885
17.22	1.3320E+07	BB	0.167	9.474
17.87	5899500	PB	0.153	4.196
18.28	847040	BB	0.139	0.602
18.62	1.2029E+07	BB	0.178	8.555
19.12	1279300	BB	0.130	0.910
19.57	6175200	BB	0.127	4.392
19.83	2978700	BB	0.131	2.119
20.36	1089800	VB	0.129	0.775
20.80	5301100	BB	0.130	3.770
21.06	2119900	BB	0.116	1.508
1.29	1447000	BB	0.126	1.029
.69	316300	BB	0.119	0.225
2.01	1205500	BB	0.145	0.857
22.35	1.9101E+07	BB	0.183	13.585
23.87	1.0896E+07	BB	0.202	7.749
24.41	2967200	BB	0.128	2.110
24.69	3860500	BB	0.139	2.746
25.49	201690	BB	0.197	0.144
26.26	1993300	BB	0.177	1.418
27.63	5513900	PB	0.271	3.922
30.35	1152400	VB	0.299	0.820

TOTAL AREA= 1.4060E+08
MUL FACTOR= 1.0000E+00

AR100366



RUN # 1115 JUN/22/98 18:16:35
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 8

AR100367

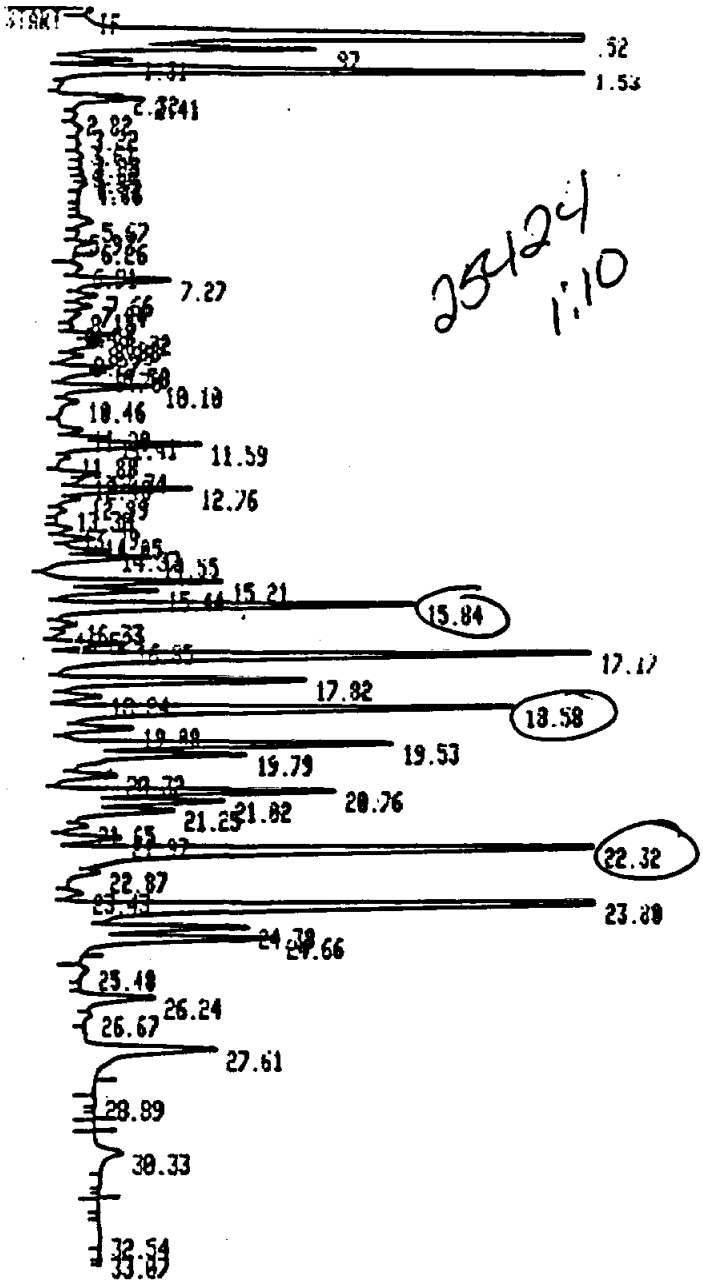
RUN # 1115 JUN/22/90 18:16:35
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 8

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.52	3.2152E+07	SBB	0.116	27.844
1.53	2206700	BB	0.129	1.911
3.22	234870	BB	0.200	0.203
7.29	289560	BB	0.228	0.251
9.27	305290	VB	0.130	0.264
10.11	230030	BB	0.116	0.199
11.61	874880	BB	0.125	0.758
12.49	172430	PB	0.121	0.149
12.77	1264200	BB	0.136	1.095
14.05	199170	BB	0.122	0.173
14.38	366690	BB	0.095	0.318
14.56	630540	BB	0.131	0.546
15.22	1568000	BB	0.111	1.358
15.45	942180	BB	0.114	0.816
15.85	5075400	BB	0.147	4.396
16.34	156590	BB	0.106	0.136
16.86	1045400	BB	0.128	0.905
17.18	8555000	BB	0.162	7.409
17.84	3588400	BB	0.153	3.108
18.26	586950	BB	0.144	0.508
18.59	7825100	BB	0.177	6.777
19.10	794200	BB	0.129	0.688
19.55	3677100	BB	0.127	3.185
19.81	1847200	BB	0.132	1.600
20.33	479490	BB	0.121	0.415
20.78	3099900	BB	0.130	2.685
21.04	1286400	BB	0.115	1.114
21.27	936460	BB	0.132	0.811
21.67	211310	BB	0.132	0.183
21.99	824830	BB	0.144	0.714
22.34	1.1152E+07	BB	0.184	9.658
23.44	223240	BB	0.124	0.193
23.82	1.4692E+07	BB	0.171	12.724
24.40	1546200	BB	0.125	1.339
24.67	2047800	BB	0.138	1.774
25.49	164060	BB	0.215	0.142
26.25	1043100	BB	0.174	0.903
27.61	2685800	PB	0.258	2.326
30.33	489380	BB	0.271	0.424

TOTAL AREA= 1.1547E+08
MUL FACTOR= 1.0000E+00

AR100368



25124
1:10

RUN # 1116 JUN/22/90 18:53:23
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 9

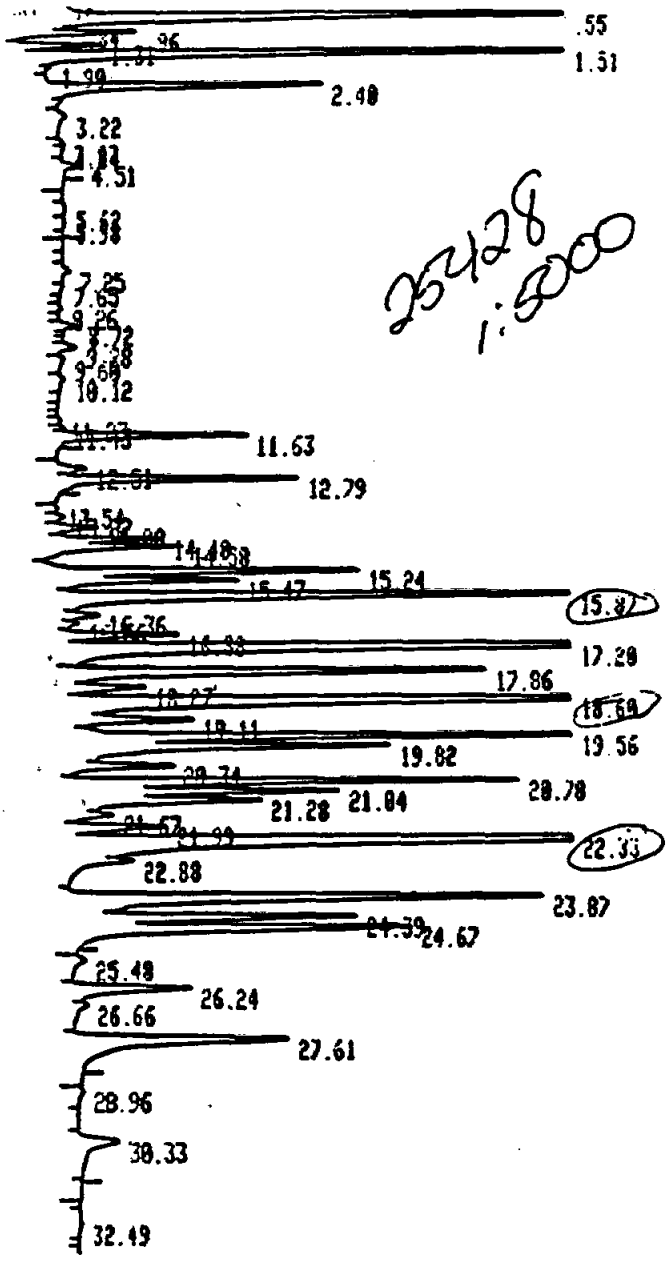
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 9

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.52	4.0409E+07	SBB	0.120	26.478
0.97	2089900	BB	0.104	1.369
1.31	862560	BB	0.114	0.565
1.53	8359300	BB	0.130	5.477
2.41	301120	BB	0.063	0.197
5.67	282410	VB	0.163	0.185
6.26	186090	BB	0.110	0.122
7.27	1500490	BB	0.142	0.983
7.66	274150	BB	0.118	0.180
7.94	185300	BB	0.106	0.121
8.72	372400	BB	0.093	0.244
9.27	221890	BB	0.119	0.145
9.58	215020	BB	0.073	0.141
10.10	1280100	BB	0.124	0.839
10.46	274190	BB	0.165	0.180
11.20	187340	BB	0.098	0.123
11.41	188910	BB	0.079	0.124
11.59	1614000	BB	0.126	1.058
12.34	269810	BB	0.090	0.177
12.76	1583500	BB	0.119	1.038
13.79	186550	PB	0.117	0.122
14.05	407200	BB	0.111	0.267
14.37	371340	BB	0.091	0.243
14.55	1129900	BB	0.126	0.740
15.21	2004600	BB	0.118	1.314
15.44	1034600	BB	0.114	0.678
15.84	6347300	BB	0.156	4.159
16.33	192310	BB	0.110	0.126
16.85	964900	BB	0.126	0.632
17.17	1.0179E+07	BB	0.170	6.670
17.82	4244200	BB	0.153	2.781
18.24	627290	BB	0.144	0.411
18.58	9117400	BB	0.179	5.974
19.08	900470	BB	0.130	0.590
19.53	4314800	BB	0.128	2.827
19.79	1982700	BB	0.125	1.299
20.32	682090	BB	0.127	0.447
20.76	3655000	BB	0.130	2.395
21.02	1475800	BB	0.116	0.967
21.25	1022300	BB	0.127	0.670
21.65	226580	BB	0.123	0.149
21.97	893090	BB	0.144	0.585
22.32	1.3748E+07	BB	0.184	9.003
23.43	216350	BB	0.127	0.142
23.80	1.5270E+07	BB	0.179	10.006
24.38	2006500	BB	0.129	1.315
24.66	2741900	BB	0.145	1.797
25.48	175040	BB	0.186	0.115
26.24	1383900	PB	0.174	0.907
27.61	3707200	BB	0.259	2.429
30.33	756560	BB	0.277	0.496

TOTAL AREA= 1.5261E+08
MUL FACTOR= 1.0000E+00

AR100370



RUN # 1117 JUN/22/90 19:29:40
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 10

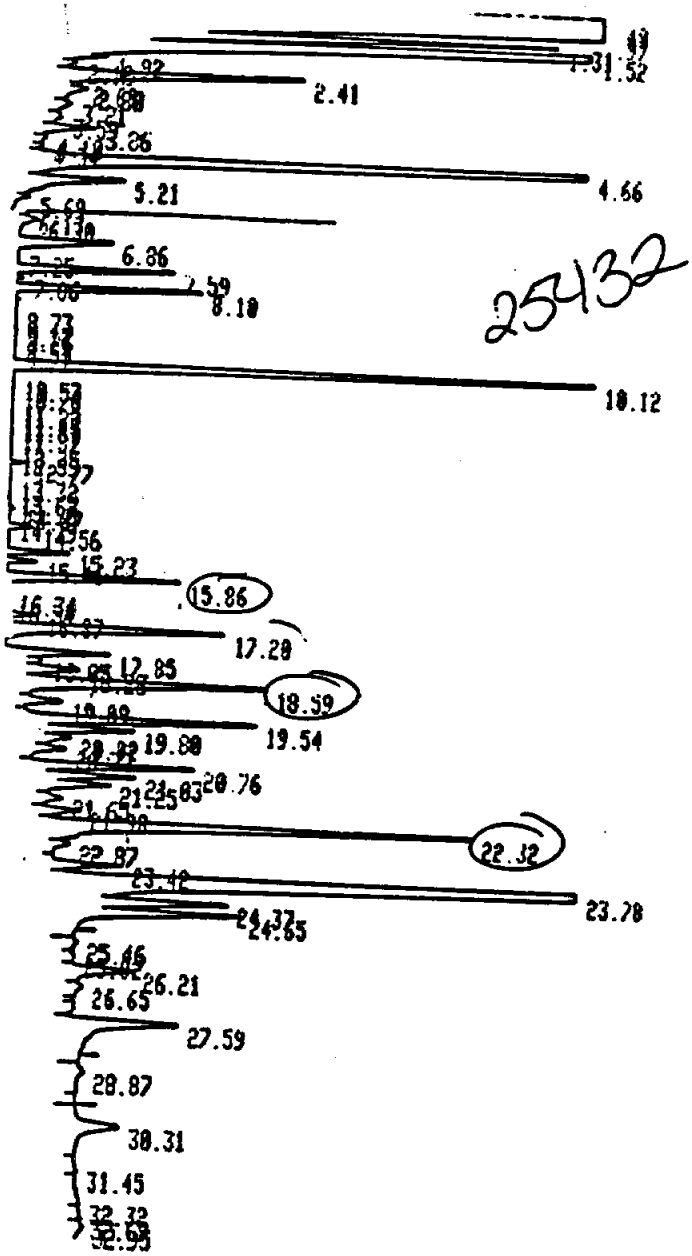
AR10037

RUN # 1117 JUN/22/90 19:29:40
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 10

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.55	1.1461E+07	PB	0.115	6.792
0.96	987680	BB	0.104	0.585
1.31	814840	BB	0.096	0.483
1.51	1.2001E+07	BB	0.129	7.112
2.40	3846000	BB	0.128	2.279
3.22	322830	PB	0.304	0.191
4.51	288490	BB	0.133	0.171
8.72	188220	PB	0.103	0.112
9.28	247000	VB	0.134	0.146
11.63	2622700	BB	0.125	1.554
12.51	295460	PB	0.118	0.175
12.79	3467800	BB	0.133	2.055
14.08	562220	BB	0.121	0.333
14.40	843840	BB	0.093	0.500
14.58	1168300	BB	0.109	0.692
15.24	3336300	BB	0.111	1.977
15.47	1760600	BB	0.113	1.043
15.87	1.0152E+07	BB	0.151	6.017
16.36	314940	BB	0.103	0.187
16.88	1509200	BB	0.127	0.895
17.20	1.6069E+07	BB	0.166	9.523
17.86	7035700	BB	0.154	4.170
18.27	989310	BB	0.137	0.586
18.60	1.4511E+07	BB	0.177	8.600
19.11	1447400	BB	0.130	0.858
19.56	6943300	BB	0.127	4.115
19.82	3317600	BB	0.124	1.966
20.34	1265800	BB	0.131	0.750
20.78	5963500	BB	0.131	3.534
21.04	2379100	BB	0.115	1.410
21.28	1773000	BB	0.129	1.051
21.67	324770	BB	0.113	0.193
21.99	1426000	BB	0.146	0.845
22.37	2.1937E+07	BB	0.182	13.001
23.87	9234100	BB	0.180	5.473
24.39	3257900	BB	0.128	1.931
24.67	4412600	BB	0.140	2.615
25.48	229560	BB	0.195	0.136
26.24	2273500	BB	0.176	1.347
27.61	6311100	BB	0.262	3.740
30.33	1439600	PB	0.319	0.853

TOTAL AREA= 1.6873E+08
MUL FACTOR= 1.0000E+00



25432

1 # 1119
ORKFILE ID: B1
ORKFILE NAME:
IPLE # 12

JUN/22/90 20:42:24

AR100373

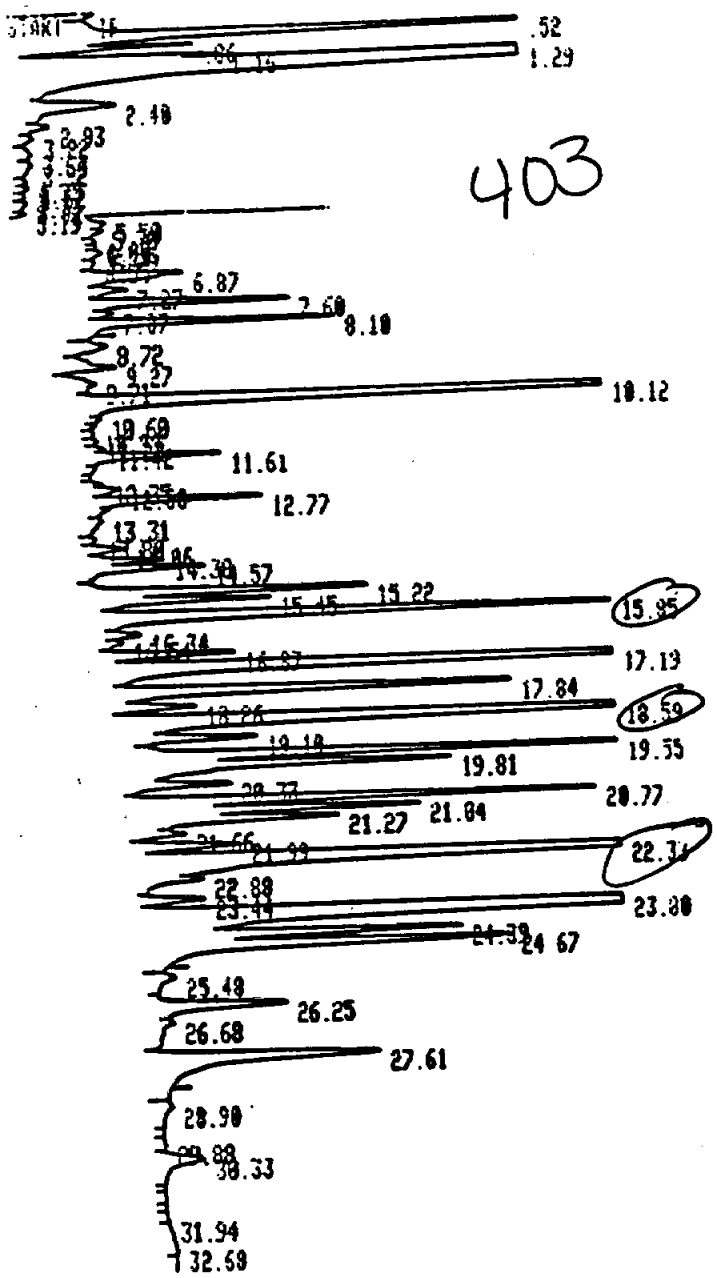
RUN # 1119 JUN/22/90 20:42:24
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 12

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.49	1.0124E+08	↑SBB	0.237	35.273
0.97	1.0599E+07	BB	0.115	3.693
1.31	4298100	BB	0.104	1.498
1.52	3.2569E+07	SPB	0.135	11.348
2.41	3749500	BB	0.144	1.306
3.86	623590	BB	0.123	0.217
4.66	2.0894E+07	SPB	0.134	7.280
5.21	1727500	BB	0.173	0.602
6.30	276600	BB	0.172	0.096
6.86	1852300	BB	0.168	0.645
7.59	2089700	BB	0.114	0.728
8.10	2574900	BB	0.115	0.897
8.73	153700	BB	0.153	0.054
9.26	245390	BB	0.113	0.086
9.77	151280	BB	0.144	0.053
10.12	1.0391E+07	BB	0.116	3.621
11.61	348550	BB	0.116	0.121
11.87	447590	BB	0.164	0.156
12.77	523180	BB	0.136	0.182
13.32	246780	VB	0.142	0.086
13.67	167110	BB	0.115	0.058
14.07	211380	BB	0.114	0.074
14.56	534950	BB	0.142	0.186
15.23	886840	BB	0.110	0.309
15.46	453300	BB	0.109	0.158
15.86	2957700	BB	0.143	1.031
16.87	517630	BB	0.124	0.180
17.20	4177600	BB	0.166	1.456
17.85	1118500	BB	0.119	0.390
18.28	602330	BB	0.128	0.210
18.59	4449400	BB	0.170	1.550
19.09	496020	BB	0.126	0.173
19.54	2991300	BB	0.127	1.042
19.80	935090	BB	0.108	0.326
20.02	276880	BB	0.135	0.097
20.33	328740	BB	0.118	0.115
20.76	2114700	BB	0.126	0.737
21.03	918620	BB	0.113	0.320
21.25	696360	BB	0.129	0.243
21.65	267970	BB	0.144	0.093
21.98	527200	BB	0.138	0.184
22.32	8297300	BB	0.175	2.891
23.42	864710	BB	0.122	0.301
23.78	4.7921E+07	SPB	0.150	16.697
24.37	1610600	BB	0.126	0.561
24.65	1963800	BB	0.130	0.684
26.21	1070880	BB	0.166	0.373
27.59	3296100	PB	0.267	1.148
30.31	1359700	BB	0.285	0.474

TOTAL AREA= 2.8701E+08
MUL FACTOR= 1.0000E+00

AR100374



403

RUN # 1120
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 13

JUN/22/90 21:18:51

AR100375

RUN # 1120 JUN/22/90 21:18:51
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 13

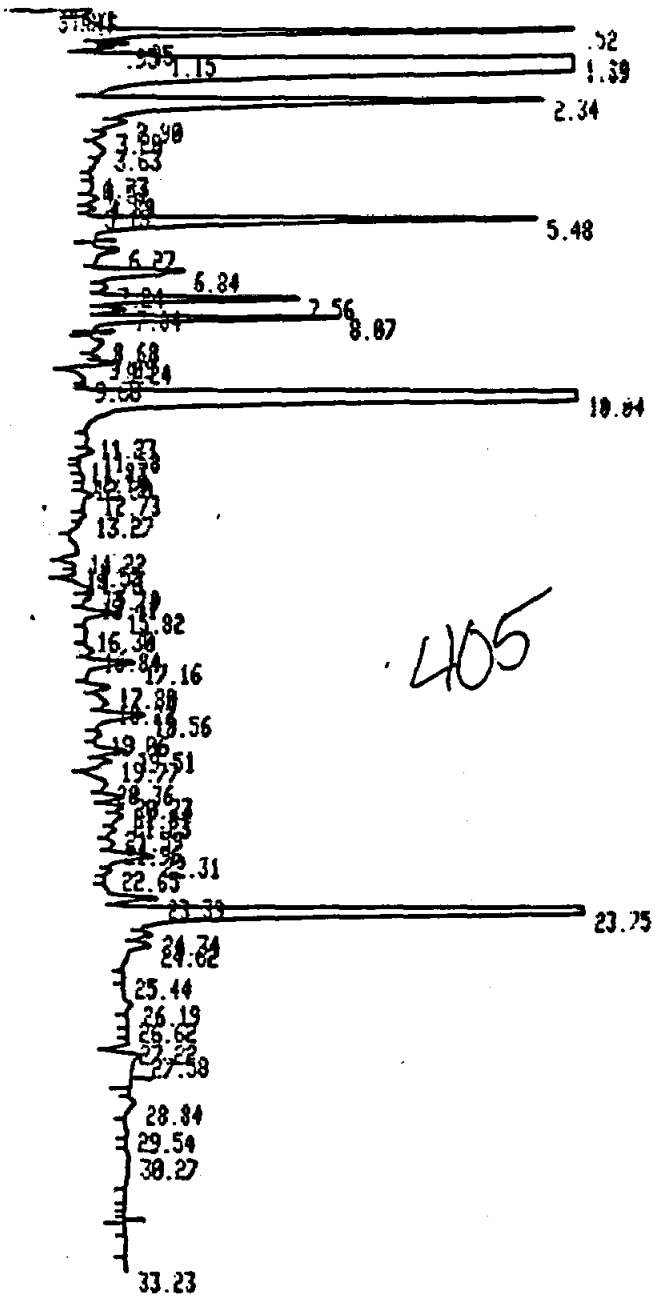
AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.52	1.1579E+07	SBB	0.093	3.811
0.86	1041900	BB	0.086	0.343
1.16	615950	BB	0.075	0.203
1.29	7.7669E+07	↑SPB	0.177	25.562
2.40	1882300	BB	0.217	0.620
2.93	192370	BB	0.111	0.063
6.87	1797800	BB	0.180	0.592
7.27	410880	BB	0.127	0.135
7.60	2441100	BB	0.115	0.803
8.10	3027800	BB	0.114	0.997
8.72	596820	BB	0.213	0.196
9.27	1107200	BB	0.196	0.364
9.71	593930	BB	0.273	0.196
10.12	2.3992E+07	SPB	0.123	7.896
11.61	1688300	BB	0.125	0.556
12.50	224170	BB	0.118	0.074
12.77	2180200	BB	0.124	0.718
13.31	163370	PB	0.254	0.054
14.06	397420	BB	0.117	0.131
14.38	514860	BB	0.090	0.170
14.57	1212200	BB	0.119	0.399
15.22	2855600	BB	0.109	0.940
15.45	1650800	BB	0.114	0.543
15.85	9809600	BB	0.154	3.229
16.34	310580	BB	0.110	0.102
16.87	1703800	BB	0.129	0.561
17.19	1.6064E+07	BB	0.169	5.287
17.84	6728900	BB	0.155	2.215
18.26	993970	BB	0.133	0.327
18.59	1.5755E+07	BB	0.181	5.185
19.10	1454100	BB	0.129	0.479
19.55	6986200	BB	0.126	2.299
19.81	3641200	BB	0.135	1.198
20.33	1149500	VB	0.130	0.378
20.77	6116500	BB	0.130	2.013
21.04	2486800	BB	0.114	0.819
21.27	1833000	BB	0.129	0.605
21.66	361280	BB	0.115	0.119
21.99	1532700	BB	0.146	0.505
22.33	2.2824E+07	BB	0.187	7.512
23.44	777800	BB	0.126	0.256
23.80	4.7106E+07	SPB	0.167	15.503
24.39	3309600	BB	0.129	1.089
24.67	4433400	BB	0.139	1.459
25.48	253440	BB	0.180	0.083
26.25	2407900	BB	0.175	0.793
26.68	193970	BB	0.257	0.064
27.61	6598100	BB	0.265	2.172
30.33	1174600	BB	0.267	0.387

TOTAL AREA= 3.0384E+08
MUL FACTOR= 1.0000E+00

AR100376

TOTAL AREA= 3.0384E+08
MUL FACTOR= 1.0000E+00



405

RUN # 1121 JUN/22/90 21:55:48
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 14

AR100377

33.23

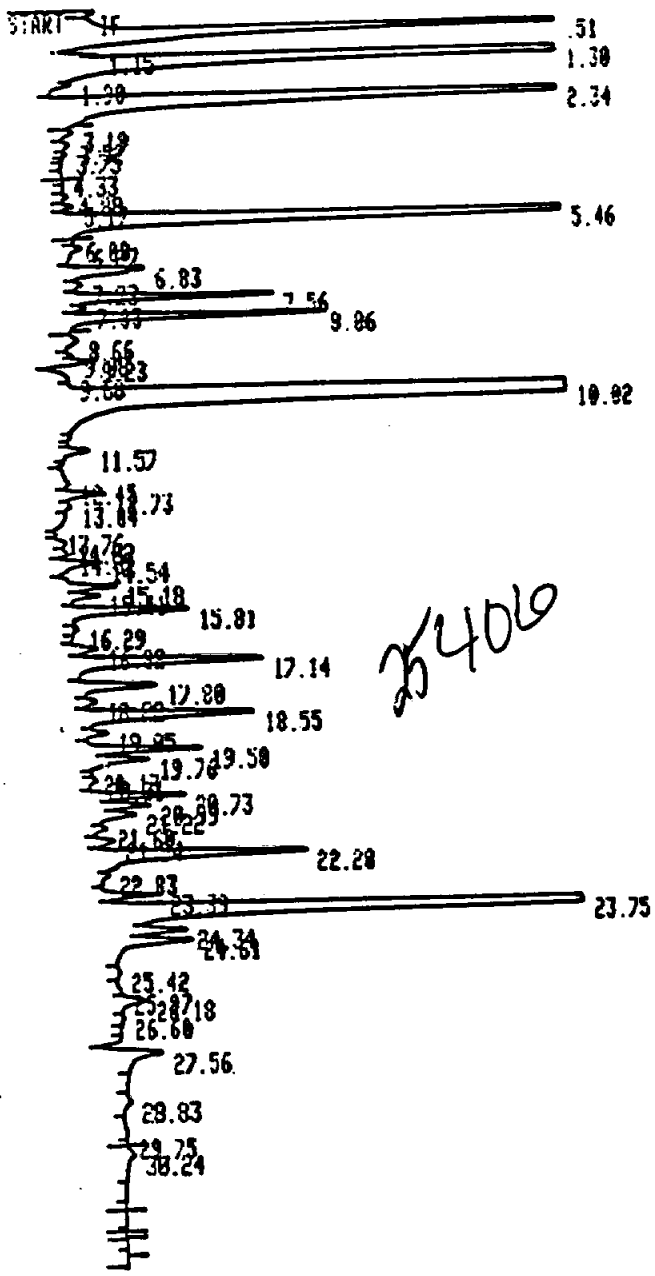
RUN # 1121 JUN/22/90 21:55:48
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 14

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.52	8865800	SBB	0.087	4.554
0.85	161520	BB	0.050	0.083
1.15	204460	BB	0.065	0.105
1.28	1.8868E+07	†SPB	0.080	9.692
1.34	9064100	PB	0.182	4.656
2.90	214250	BB	0.128	0.110
3.63	213310	BB	0.230	0.110
4.89	161270	BB	0.141	0.083
5.48	7914200	BB	0.157	4.065
6.27	434060	BB	0.160	0.223
6.84	1826700	BB	0.184	0.938
7.56	2588700	BB	0.116	1.330
7.84	285150	BB	0.100	0.147
8.07	3054900	BB	0.112	1.569
8.68	333220	BB	0.239	0.171
9.24	415350	BB	0.118	0.213
9.68	239140	BB	0.354	0.123
10.64	9.7555E+07	†SHB	0.213	50.110
11.58	164150	BB	0.146	0.084
12.73	215650	PB	0.173	0.111
14.22	663210	PB	0.352	0.341
15.19	394510	BB	0.219	0.203
15.82	584200	BB	0.153	0.300
17.16	941430	BB	0.173	0.484
17.80	282090	BB	0.133	0.145
18.22	253600	BB	0.251	0.130
18.56	960220	BB	0.192	0.493
19.51	426550	BB	0.129	0.219
19.77	420310	BB	0.224	0.216
20.36	508210	BB	0.324	0.261
20.73	296780	BB	0.125	0.152
21.01	151950	BB	0.121	0.078
22.31	885220	BB	0.183	0.455
23.39	579400	PB	0.118	0.298
23.75	3.2159E+07	SPB	0.146	16.519
24.34	174440	BB	0.124	0.090
24.62	206450	BB	0.117	0.106
26.19	171000	BB	0.211	0.088
27.22	379030	VB	0.230	0.195
27.58	1043100	BB	0.337	0.536
28.84	215900	VB	0.261	0.111
30.27	204920	VB	0.538	0.105

TOTAL AREA= 1.9468E+08
MUL FACTOR= 1.0000E+00

AR100378



RUN # 1122 JUN/22/90 22:32:45
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 15

AR100379

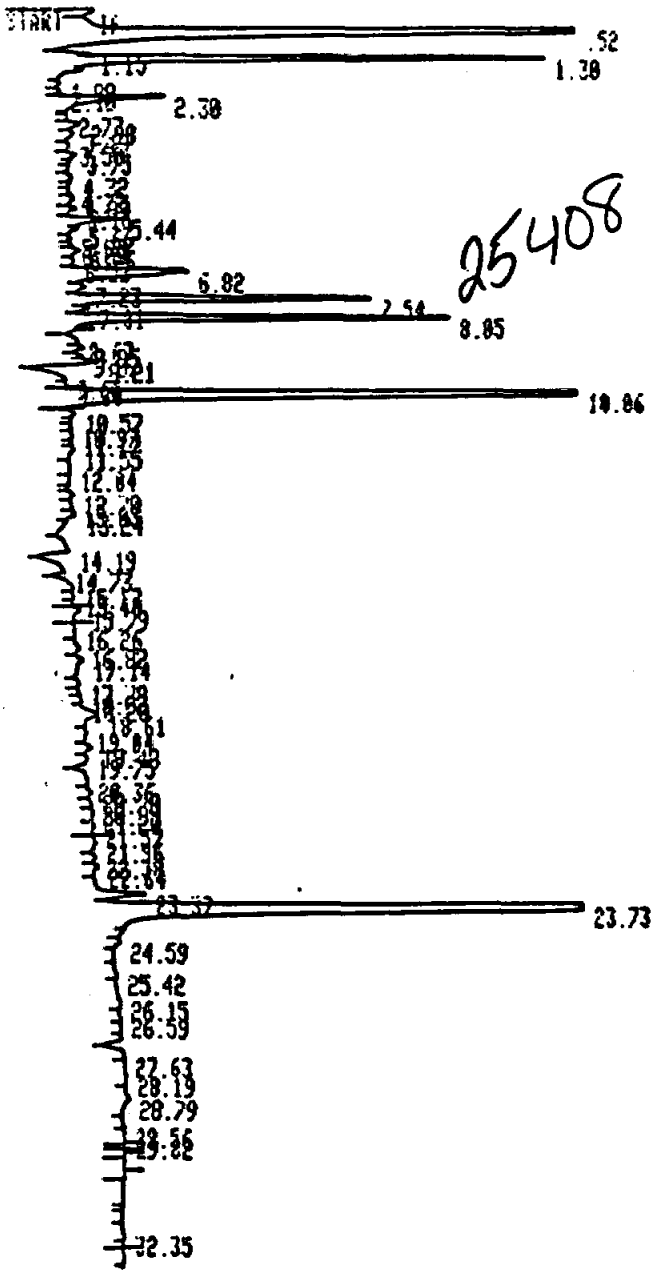
RUN # 1122 JUN/22/90 22:32:45
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 15

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.51	1.6888E+07	SBB	0.107	6.203
1.30	2.5744E+07	SPB	0.132	9.456
2.34	1.7913E+07	BB	0.198	6.580
5.46	1.8988E+07	BB	0.160	6.974
6.27	200990	BB	0.157	0.074
6.83	1601500	BB	0.189	0.588
7.56	2622800	BB	0.120	0.963
8.06	3326300	BB	0.120	1.222
8.66	238280	BB	0.217	0.088
9.23	404480	BB	0.120	0.149
9.68	216200	BB	0.372	0.079
10.02	1.1699E+08	↑SPB	0.255	42.971
11.57	331420	VB	0.126	0.122
12.45	225690	PB	0.333	0.083
12.73	543350	BB	0.125	0.200
14.54	851100	BB	0.178	0.313
15.18	633930	BB	0.129	0.233
15.41	303720	BB	0.116	0.112
15.81	2021500	BB	0.154	0.743
16.82	311790	PB	0.125	0.115
17.14	3503400	BB	0.170	1.287
17.80	1301600	BB	0.153	0.478
18.22	180590	BB	0.141	0.066
18.55	3466800	BB	0.185	1.273
19.05	280120	BB	0.130	0.103
19.50	1469600	BB	0.128	0.540
19.76	756560	BB	0.143	0.278
20.73	1224900	BB	0.131	0.450
20.99	487530	BB	0.116	0.179
21.22	392810	BB	0.139	0.144
21.94	316900	BB	0.151	0.116
22.28	4555000	BB	0.198	1.673
23.39	725100	BB	0.122	0.266
23.75	3.9401E+07	SPB	0.150	14.472
24.34	644750	BB	0.128	0.237
24.61	692680	BB	0.111	0.254
26.18	430810	BB	0.169	0.158
27.56	1677500	PB	0.272	0.616
28.83	166950	VB	0.244	0.061
30.24	220490	BB	0.266	0.081

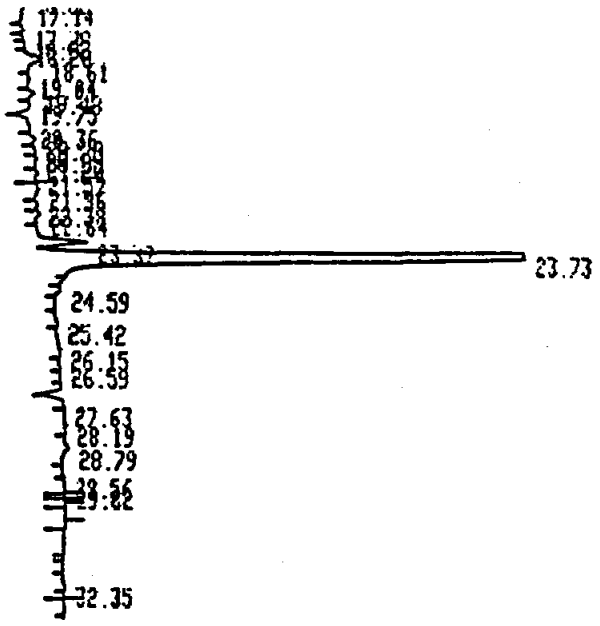
TOTAL AREA= 2.7225E+08
MUL FACTOR= 1.0000E+00

AR100380



RUN # 1123 JUN/22/98 23:09:15
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 16

AR100381

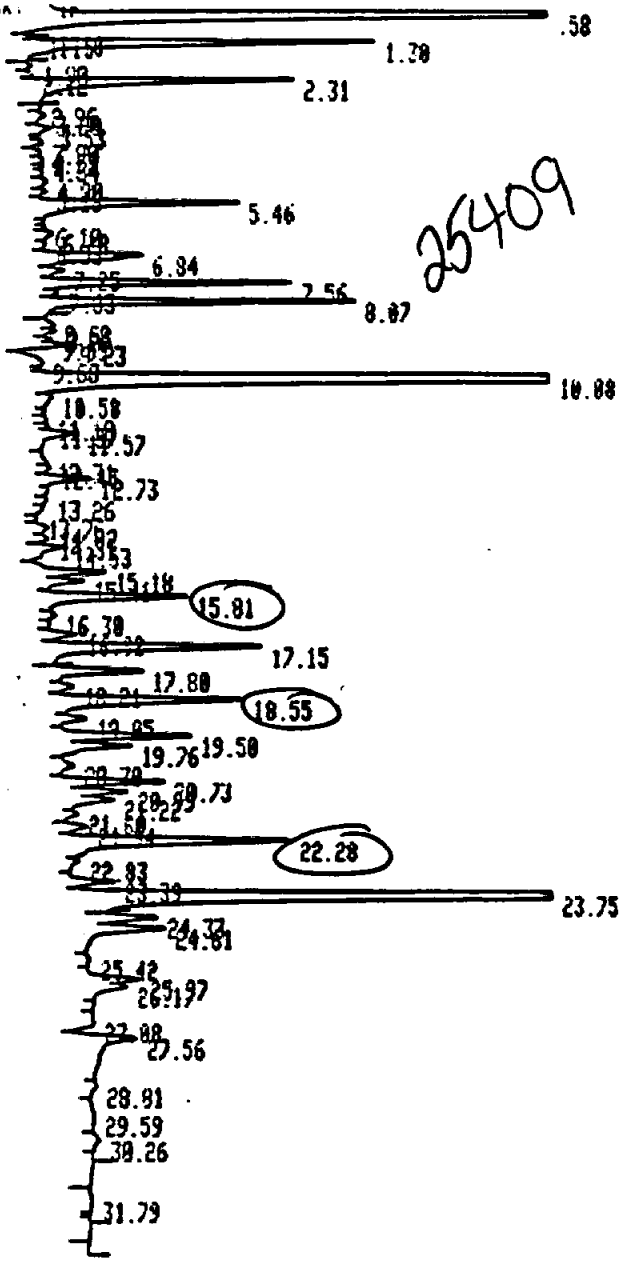


RUN # 1123 JUN/22/98 23:09:15
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 16

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.52	1.6852E+07	SBB	0.151	18.807
1.38	5832800	BB	0.112	6.510
2.30	1463900	BB	0.123	1.634
2.98	158350	BB	0.112	0.177
5.44	588440	BB	0.107	0.657
6.82	2414500	BB	0.188	2.695
7.54	3728400	BB	0.114	4.161
8.05	4901000	BB	0.116	5.470
9.21	488090	BB	0.114	0.545
9.66	284580	BB	0.432	0.318
10.06	1.8540E+07	BB	0.134	20.691
14.19	923480	VB	0.325	1.031
14.73	579710	BB	0.360	0.647
15.17	240280	BB	0.327	0.268
17.14	187830	BB	0.225	0.210
18.61	374680	BB	0.213	0.418
19.75	199220	BB	0.351	0.222
20.36	229770	BB	0.440	0.256
23.37	572200	BB	0.118	0.639
23.73	3.0797E+07	SPB	0.145	34.370
27.63	248960	PB	0.303	0.278

TOTAL AREA= 8.9604E+07
MUL FACTOR= 1.0000E+00



25409

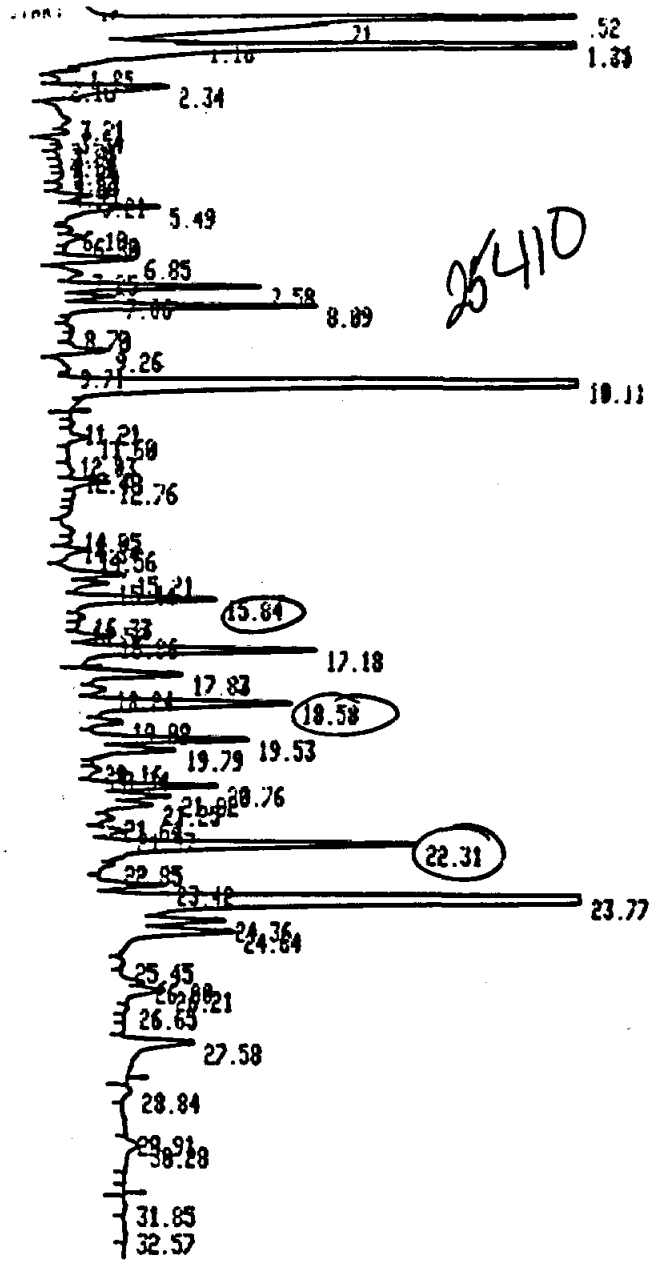
RUN # 1124 JUN/22/90 23:45:47
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 17

RUN # 1124 JUN/22/90 23:45:47
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 17

AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.30	5457600	BB	0.142	4.284
2.31	4454400	BB	0.151	3.497
3.53	181660	BB	0.126	0.143
5.46	3247400	BB	0.145	2.549
6.84	219980	BB	0.048	0.173
7.25	206020	PB	0.126	0.162
7.56	3079700	BB	0.115	2.418
8.07	3982500	BB	0.116	3.126
9.23	427320	BB	0.116	0.336
9.68	272980	BB	0.313	0.214
10.08	4.5487E+07	SHB	0.134	35.708
11.57	462920	BB	0.130	0.363
12.73	595010	BB	0.121	0.467
14.53	620810	BB	0.194	0.487
15.18	812370	BB	0.128	0.638
15.41	373130	BB	0.114	0.293
15.81	2407000	BB	0.154	1.890
16.82	386830	PB	0.128	0.304
17.15	3932700	BB	0.167	3.087
17.80	1439100	PB	0.148	1.130
18.21	231200	BB	0.144	0.182
18.55	3703300	BB	0.180	2.907
19.05	334890	BB	0.131	0.263
19.50	1652900	BB	0.126	1.298
19.76	894410	BB	0.144	0.702
20.30	283130	BB	0.186	0.222
20.73	1351600	BB	0.130	1.061
20.99	508650	BB	0.112	0.399
21.22	406920	BB	0.134	0.319
21.94	335390	BB	0.147	0.263
22.28	4684900	BB	0.190	3.678
23.39	557650	BB	0.124	0.438
23.75	2.9142E+07	BB	0.149	22.877
24.33	711200	PB	0.128	0.558
24.61	816920	BB	0.120	0.641
27.08	761960	VB	0.463	0.598
27.56	2785700	BB	0.400	2.187
30.26	176270	BB	0.231	0.138

TOTAL AREA= 1.2739E+08
MUL FACTOR= 1.0000E+00



25410

RUN # 1125 JUN/23/90 08:22:24
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 18

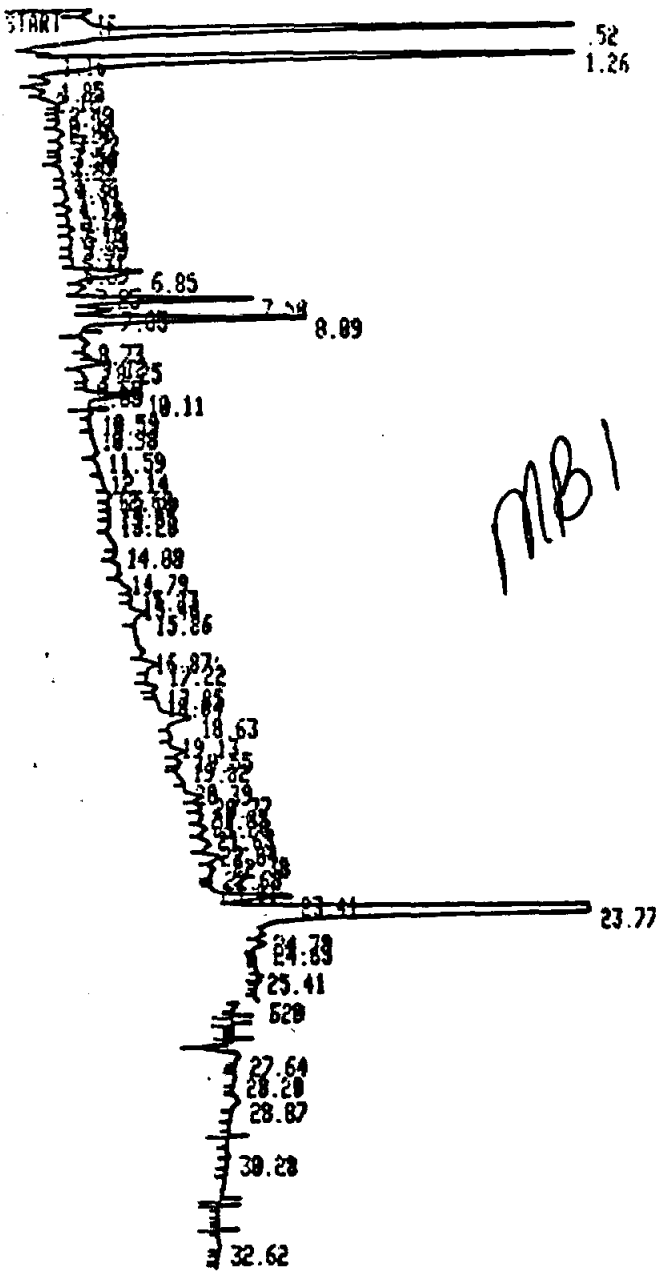
SAMPLE # 18

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.52	8056500	SBB	0.046	4.962
0.71	575620	BB	0.239	0.355
1.16	220040	PB	0.071	0.136
1.25	728350	SPB	0.044	0.449
2.34	3040800	BB	0.228	1.873
3.21	658060	BB	0.440	0.405
3.54	198330	BB	0.107	0.122
5.21	403810	BB	0.118	0.249
5.49	1634000	BB	0.161	1.006
6.30	234470	BB	0.128	0.144
6.85	1268300	VB	0.143	0.781
7.25	521110	BB	0.221	0.321
7.58	2417100	BB	0.115	1.489
7.86	451450	BB	0.101	0.278
8.09	3145900	BB	0.115	1.938
9.26	876980	VB	0.158	0.540
9.71	163650	BB	0.326	0.101
10.11	5.5825E+07	SPB	0.135	34.382
11.60	340710	BB	0.148	0.210
12.76	537670	BB	0.126	0.331
14.56	566940	BB	0.194	0.349
15.21	708080	BB	0.124	0.436
15.44	371760	BB	0.116	0.229
15.84	2396600	BB	0.152	1.476
16.86	451980	BB	0.128	0.278
17.18	4396100	BB	0.166	2.708
17.83	1581300	PB	0.147	0.974
18.24	234940	BB	0.139	0.145
18.58	4090100	BB	0.183	2.519
19.08	404500	BB	0.128	0.249
19.53	2022500	BB	0.127	1.246
19.79	1024600	BB	0.138	0.631
20.76	1619800	BB	0.128	0.998
21.02	641470	BB	0.115	0.395
21.25	485230	BB	0.134	0.299
21.64	175860	BB	0.135	0.108
21.97	422080	BB	0.146	0.260
22.31	6537000	BB	0.186	4.026
23.42	807080	BB	0.119	0.497
23.77	4.6805E+07	SPB	0.155	28.827
24.36	983240	BB	0.128	0.606
24.64	1172400	BB	0.124	0.722
26.21	454890	BB	0.145	0.280
27.58	2279800	PB	0.283	1.404
30.28	436460	BB	0.291	0.269

TOTAL AREA= 1.6237E+08
MUL FACTOR= 1.0000E+00

AR100386



RUN # 1129 JUN/23/90 02:49:56
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 22

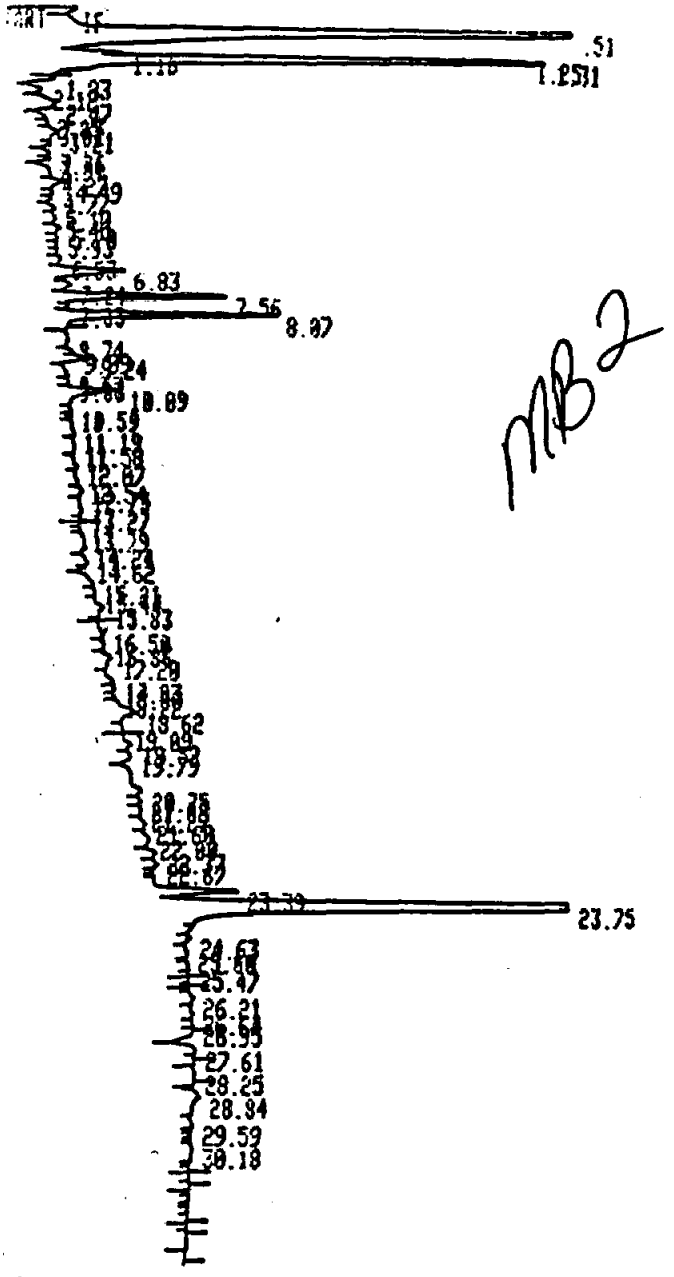
RUN # 1129 JUN/23/90 02:49:56
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 22

'REA%

RT	AREA	TYPE	AR/HT	AREA%
0.52	1.1671E+07	SBB	0.107	15.422
1.26	1.0867E+07	BB	0.154	14.360
1.85	187970	BB	0.128	0.248
6.85	1355500	BB	0.177	1.791
7.58	2135300	BB	0.111	2.822
7.85	287580	BB	0.098	0.380
8.09	2874400	BB	0.115	3.798
8.73	157860	BB	0.191	0.209
9.25	277610	BB	0.114	0.367
10.11	795950	BB	0.137	1.052
11.59	203520	BB	0.351	0.269
14.79	241310	PB	0.361	0.319
15.86	247380	BB	0.170	0.327
17.22	257800	BB	0.159	0.341
18.63	718200	BB	0.237	0.949
19.55	173570	BB	0.129	0.229
20.77	181680	BB	0.120	0.240
22.04	211650	BB	0.217	0.280
22.38	276490	BB	0.149	0.365
23.41	850970	PB	0.116	1.125
23.77	4.0765E+07	SPB	0.144	53.869
24.65	152300	BB	0.137	0.201
27.64	608320	PB	0.244	0.804
28.87	176270	VB	0.230	0.233

TOTAL AREA= 7.5674E+07
MUL FACTOR= 1.0000E+00

AR100388



MB2

1130 JUN/23/98 03:26:41
RKFILE ID: B1
RKFILE NAME:
PLE # 23

AR100389

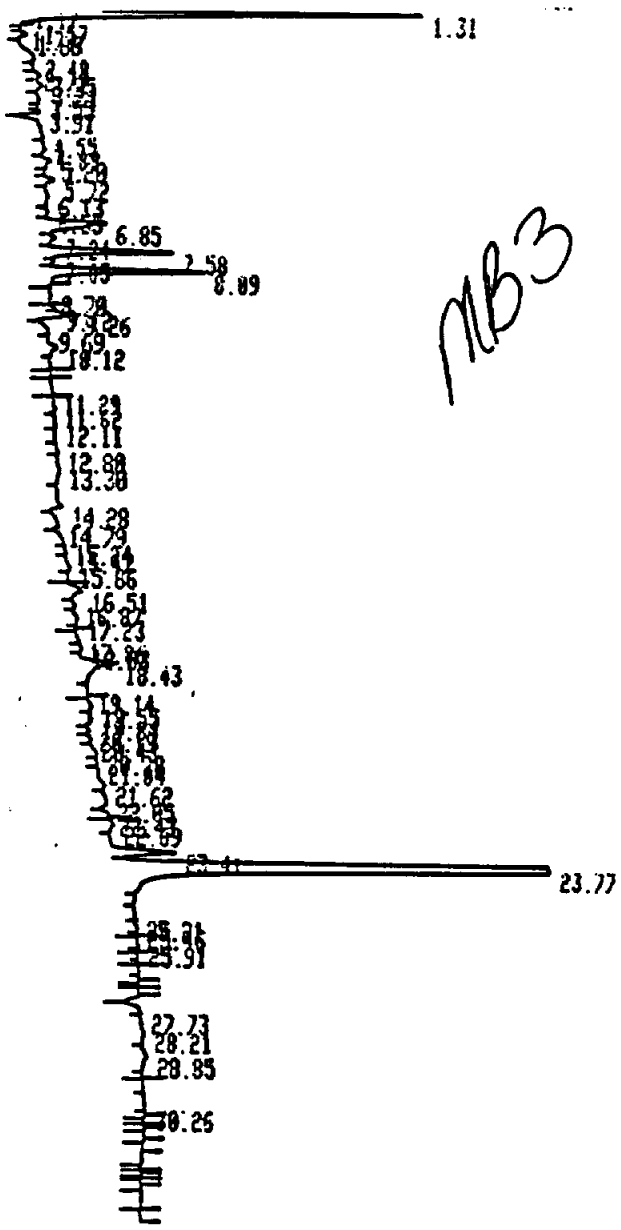
RUN # 1130 JUN/23/90 03:26:41
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 23

A%

T	AREA	TYPE	AR/HT	AREA%
.51	3.2665E+07	SBB	0.094	39.318
1.16	156040	BB	0.072	0.188
1.25	858740	BB	0.058	1.034
1.83	180570	BB	0.129	0.217
2.12	187290	BB	0.136	0.225
2.47	716550	BB	0.293	0.863
4.27	204920	BB	0.350	0.247
4.49	190020	BB	0.115	0.229
6.83	1009100	BB	0.143	1.215
7.56	2067900	BB	0.114	2.489
8.07	2810600	BB	0.119	3.383
9.24	281740	BB	0.110	0.339
10.09	824820	BB	0.141	0.993
14.24	187830	BB	0.345	0.226
15.21	174670	PB	0.405	0.210
17.20	157090	BB	0.182	0.189
18.62	466240	BB	0.237	0.561
19.79	171780	BB	0.280	0.207
20.75	374040	BB	0.469	0.450
22.00	151030	BB	0.226	0.182
23.39	903850	PB	0.113	1.088
23.75	3.7943E+07	SPB	0.145	45.671
27.61	204590	PB	0.202	0.246
28.84	191420	PB	0.254	0.230

T AL AREA= 8.3078E+07
ACTOR= 1.0000E+00

AR100390



MB3

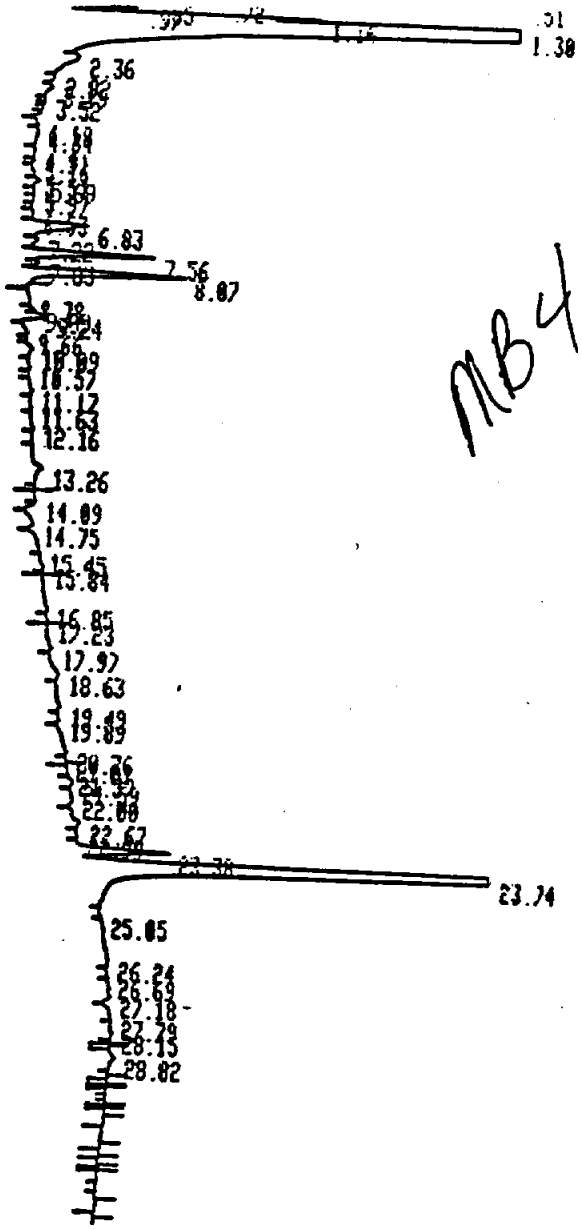
RUN # 1131 JUN/23/90 04:03:28
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 24

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.52	6511500	BB	0.116	11.854
1.31	5060500	BB	0.113	9.212
3.91	221300	VB	0.126	0.403
4.55	615440	BB	1.262	1.120
6.85	1154700	BB	0.173	2.102
7.58	1554300	BB	0.112	2.830
8.09	2049500	BB	0.117	3.731
9.26	345530	BB	0.116	0.629
14.28	375930	BB	0.316	0.684
14.79	224300	BB	0.299	0.408
16.51	227020	PB	0.185	0.413
18.43	745680	BB	0.207	1.358
22.05	208410	BB	0.313	0.379
23.41	672870	BB	0.107	1.225
23.77	3.4964E+07	SPB	0.146	63.651

TOTAL AREA= 5.4931E+07

AR100391



MB4

RUN # 1132
BATCH FILE ID: B1
METHOD FILE NAME:
SAMPLE # 25

JUN/23/90 04:40:15

AR100392

RUN # 1132 JUN/23/90 04:40:15
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 25

AREA%

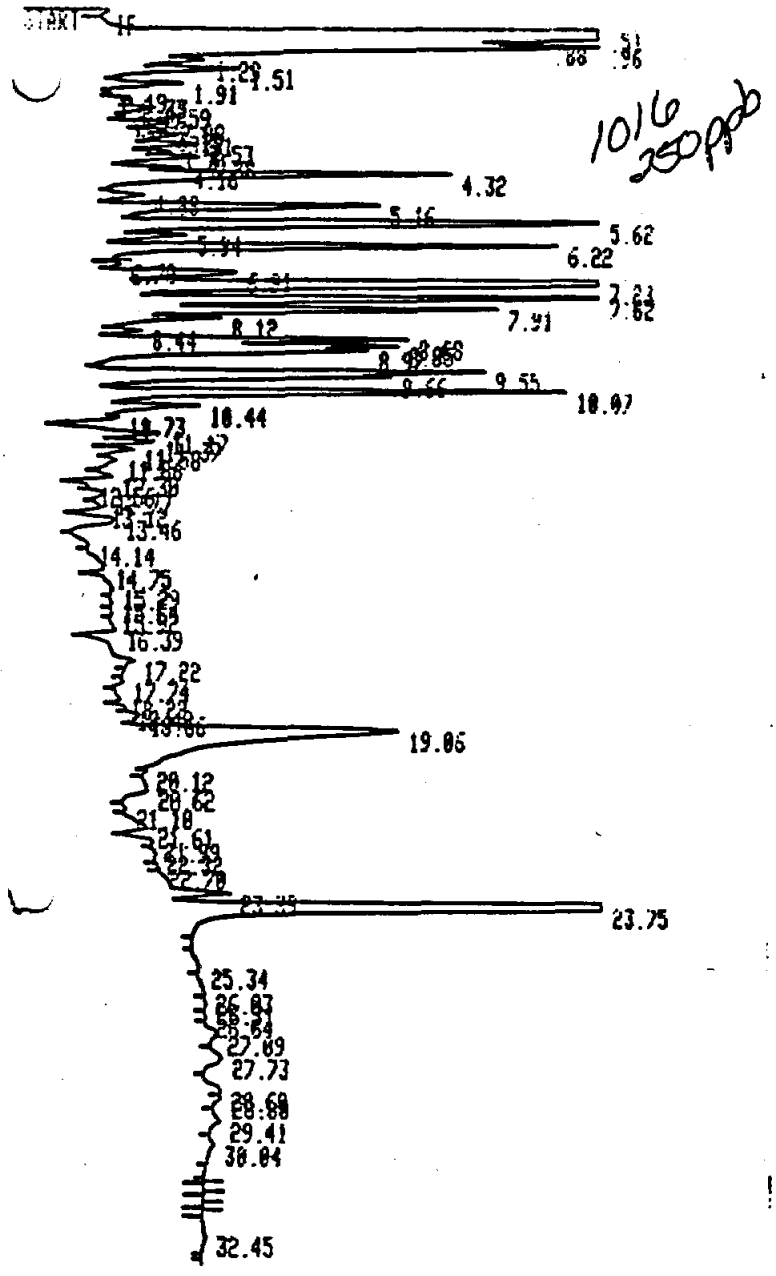
RT	AREA	TYPE	AR/HT	AREA%
0.51	9633900	SBB	0.068	7.126
0.72	524580	BB	0.051	0.388
0.85	177890	BB	0.046	0.132
0.97	383850	BB	0.077	0.284
1.16	892700	BB	0.090	0.660
1.30	7.5868E+07	↑SPB	0.187	56.116
2.36	355360	BB	0.307	0.263
6.83	1124100	BB	0.177	0.831
7.56	1574100	BB	0.114	1.164
8.07	2091000	BB	0.119	1.547
9.24	252440	BB	0.124	0.187
13.26	237930	PB	0.238	0.176
14.75	250850	PB	0.314	0.186
15.45	217300	BB	1.571	0.161
20.76	206810	BB	0.699	0.153
22.67	183020	BB	0.253	0.135
23.38	1159300	BB	0.123	0.858
23.74	3.9507E+07	SPB	0.148	29.222
26.24	285880	BB	1.033	0.212
27.18	272230	BB	0.395	0.201

TOTAL AREA= 1.3520E+08
MUL FACTOR= 1.0000E+00

AR100395

AR100393

MUL FACTOR= 1.0000E+00



RUN # 1133 JUN/23/90 05:17:08
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 26

AR100394

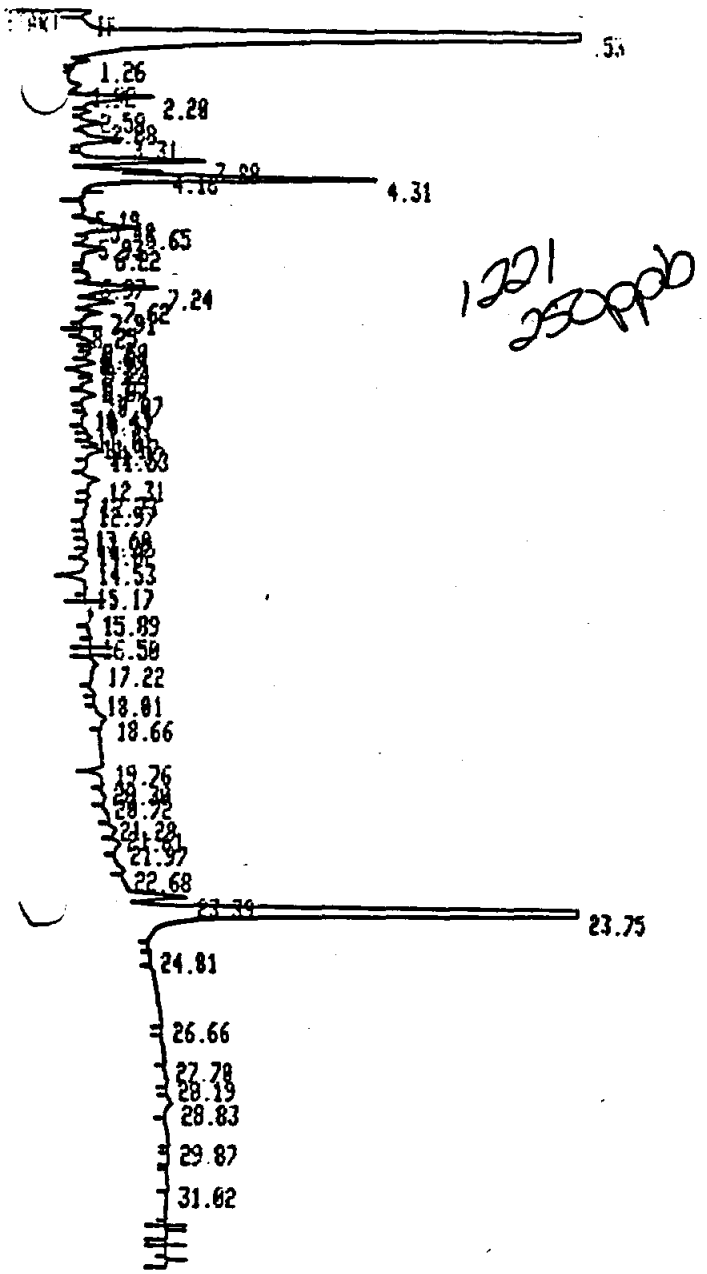
RUN # 1133 JUN/23/90 05:17:08
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 26

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.51	6.6726E+07	↑SBB	0.152	32.480
0.88	185440	BB	0.041	0.090
0.96	1351300	BB	0.066	0.658
1.29	448190	BB	0.113	0.218
1.51	1226600	BB	0.114	0.597
1.91	886030	BB	0.110	0.431
2.59	285820	BB	0.090	0.139
2.98	525470	BB	0.107	0.256
3.31	264040	BB	0.096	0.129
3.53	607330	BB	0.101	0.296
3.74	158510	BB	0.067	0.077
3.88	647030	BB	0.105	0.315
4.16	307540	BB	0.074	0.150
4.32	4996100	BB	0.145	2.432
4.88	498090	BB	0.118	0.243
5.16	4433600	BB	0.147	2.158
5.62	9003600	BB	0.153	4.383
5.94	692940	BB	0.104	0.337
6.22	6289300	BB	0.125	3.061
6.91	2108400	BB	0.161	1.026
7.23	1.8578E+07	BB	0.141	9.043
7.62	6686500	BB	0.120	3.255
7.91	3926400	BB	0.107	1.911
8.12	816970	BB	0.101	0.398
8.44	334060	BB	0.091	0.163
8.68	2190400	BB	0.090	1.066
8.85	825520	BB	0.072	0.402
9.55	1172200	BB	0.053	0.571
10.07	7086400	BB	0.137	3.449
10.44	1123200	BB	0.121	0.547
10.73	404590	BB	0.161	0.197
11.17	1263900	BB	0.169	0.615
11.37	556690	BB	0.103	0.271
11.58	379900	BB	0.108	0.185
11.86	328310	BB	0.202	0.160
12.30	516010	BB	0.141	0.251
12.77	277860	BB	0.158	0.135
13.12	387300	BB	0.179	0.189
13.46	1251200	BB	0.252	0.609
14.75	742240	BB	0.368	0.361
15.29	471100	BB	0.517	0.229
16.39	772940	BB	0.251	0.376
17.22	962560	BB	0.498	0.469
18.22	194000	BB	0.208	0.094
18.66	171680	BB	0.136	0.084
19.06	1.2341E+07	BB	0.410	6.007
20.62	658490	BB	0.327	0.321
21.61	832080	BB	0.294	0.405
21.99	284970	BB	0.187	0.139
23.39	758590	BB	0.128	0.369
23.75	3.5950E+07	SPB	0.143	17.499
27.09	335680	BB	0.295	0.163
27.73	563710	BB	0.356	0.274
29.41	267960	BB	0.276	0.130
30.04	189210	BB	0.309	0.092
32.45	195780	PB	0.501	0.095

TOTAL AREA= 2.0544E+08
MUL FACTOR= 1.0000E+00

AR100395



1221
250ppb

RUN # 1134 JUN/23/90 05:54:04
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 27

AR100396

RUN # 1134 JUN/23/90 05:54:04
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 27

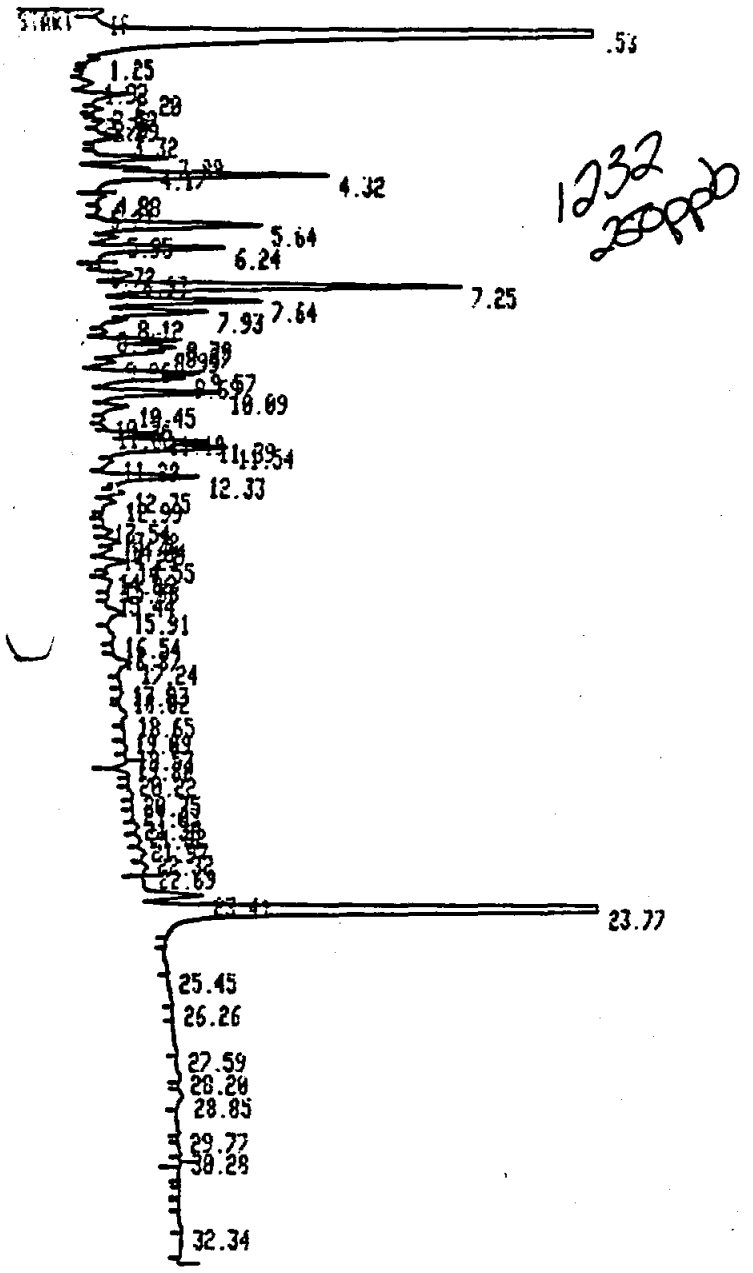
AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.53	3.4749E+07	SBB	0.166	39.798
1.92	193550	PB	0.149	0.222
2.20	1232700	BB	0.137	1.412
2.88	288740	BB	0.121	0.331
3.31	694670	BB	0.145	0.796
3.88	1648700	PB	0.118	1.888
4.16	408020	BB	0.074	0.467
4.31	3209200	BB	0.111	3.676
5.65	652470	BB	0.136	0.747
6.22	333800	BB	0.130	0.382
7.24	1189400	BB	0.146	1.362
7.62	349120	BB	0.117	0.400
7.91	238280	BB	0.134	0.273
9.24	194810	BB	0.116	0.223
10.07	215000	BB	0.131	0.246
12.31	295200	PB	0.180	0.338
14.53	530690	VB	0.374	0.608
15.17	337420	BB	0.395	0.387
15.89	182380	BB	0.256	0.209
17.22	176890	SB	0.246	0.203
18.66	187840	PB	0.208	0.215
19.76	1085400	BB	0.674	1.243
20.30	303480	BB	0.329	0.348
21.97	155520	BB	0.200	0.178
23.39	595350	BB	0.105	0.682
23.75	3.7236E+07	SPB	0.147	42.646
26.66	464560	PB	1.922	0.532
28.83	166290	VB	0.250	0.191

TOTAL AREA= 8.7314E+07
MUL FACTOR= 1.0000E+00

20.30	303480	BB	0.329	0.348
21.97	155520	BB	0.200	0.178
23.39	595350	BB	0.105	0.682
23.75	3.7236E+07	SPB	0.147	42.646
26.66	464560	PB	1.922	0.532
28.83	166290	VB	0.250	0.191

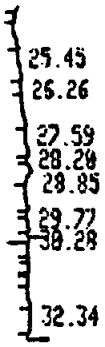
TOTAL AREA= 8.7314E+07
MUL FACTOR= 1.0000E+00



1232
250PPD

RUN # 1135 JUN/23/90 06:30:58
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 28

AR100398



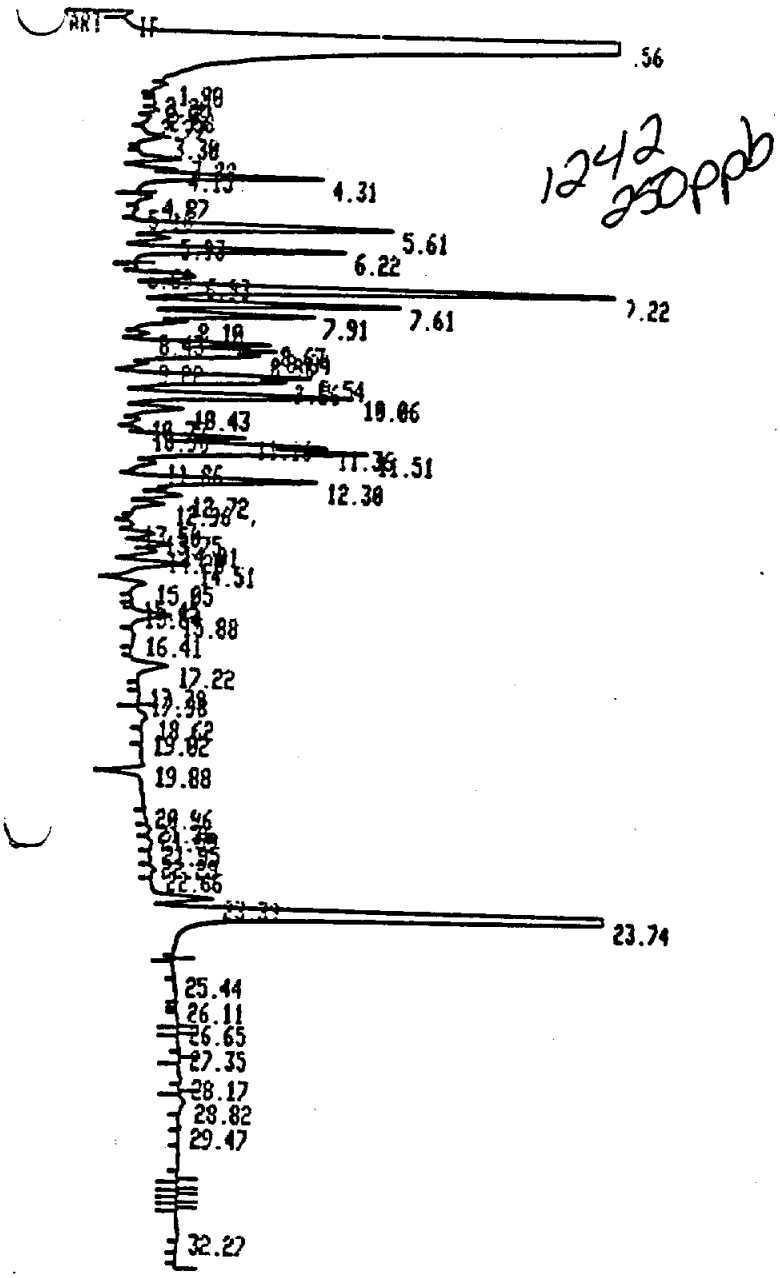
RUN # 1135 JUN/23/90 06:30:58
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 28

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.53	3.7566E+07	SBB	0.160	36.185
1.92	175100	PB	0.129	0.169
2.20	642040	BB	0.137	0.619
3.32	467070	PB	0.143	0.450
3.89	1885600	VB	0.123	1.846
4.17	265020	BB	0.071	0.255
4.32	2648000	BB	0.115	2.551
5.64	3016100	BB	0.165	2.905
5.95	170700	BB	0.103	0.164
6.24	1846100	BB	0.128	1.778
6.93	577050	BB	0.162	0.556
7.25	5723200	BB	0.144	5.513
7.64	1983900	BB	0.122	1.911
7.93	1069000	BB	0.108	1.030
8.70	559600	BB	0.088	0.539
8.87	233800	BB	0.074	0.225
9.26	173680	BB	0.105	0.167
9.57	385750	BB	0.067	0.372
10.09	1805200	BB	0.134	1.739
10.45	385390	BB	0.130	0.371
11.19	478490	BB	0.098	0.461
11.39	456560	BB	0.081	0.440
11.54	705070	BB	0.095	0.679
12.33	1315400	BB	0.130	1.267
12.75	175680	PB	0.106	0.169
14.04	154290	BB	0.106	0.149
14.55	420110	BB	0.141	0.405
15.08	227770	BB	0.194	0.219
15.91	388660	BB	0.211	0.374
17.24	381390	BB	0.215	0.367
18.65	157950	PB	0.237	0.152
23.41	657360	PB	0.113	0.633
23.77	3.7341E+07	SPB	0.146	35.969
28.85	177020	VB	0.272	0.171

TOTAL AREA= 1.0382E+08
MUL FACTOR= 1.0000E+00

TOTAL AREA= 1.0382E+08
MUL FACTOR= 1.0000E+00



1242
250ppb

RUN # 1136
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 29

JUN/23/90 07:07:53

AR100400

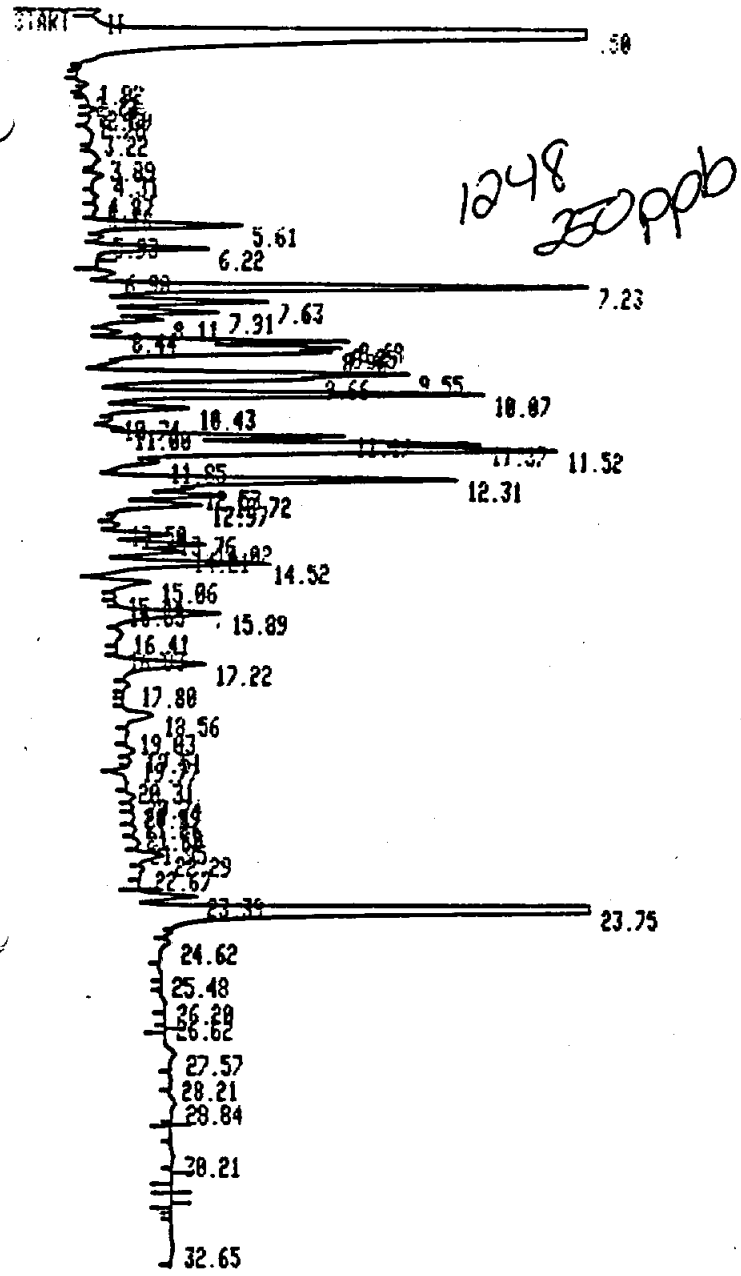
32.27

RUN # 1136 JUN/23/90 07:07:53
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 29

AREA% RT	AREA	TYPE	AR/HT	AREA%
0.56	6.6686E+07	SBB	0.260	43.587
3.30	438440	BB	0.170	0.287
3.88	690840	VB	0.135	0.452
4.15	171220	BB	0.068	0.112
4.31	2160200	BB	0.117	1.412
4.87	201120	BB	0.113	0.132
5.61	4568100	BB	0.158	2.986
5.93	313400	BB	0.105	0.205
6.22	3058600	BB	0.129	1.999
6.93	1008100	BB	0.165	0.659
7.22	9174500	BB	0.144	5.997
7.61	3359000	BB	0.124	2.196
7.91	1767200	BB	0.108	1.155
8.43	160790	BB	0.097	0.105
8.67	965010	BB	0.089	0.631
8.84	404610	BB	0.074	0.265
8.96	267450	BB	0.067	0.175
9.54	628880	BB	0.065	0.411
10.06	3333500	BB	0.136	2.179
10.43	656600	BB	0.125	0.429
11.16	958040	BB	0.099	0.626
11.36	816970	BB	0.081	0.534
11.51	1369700	BB	0.099	0.895
11.86	169440	BB	0.126	0.111
12.30	2477000	BB	0.129	1.619
12.72	392560	PB	0.107	0.257
12.96	340130	BB	0.115	0.222
13.75	280700	BB	0.114	0.184
14.01	368330	BB	0.107	0.241
14.20	217450	BB	0.113	0.142
14.51	1480400	BB	0.194	0.968
15.05	618760	BB	0.191	0.404
15.88	744400	BB	0.170	0.487
17.22	757410	PB	0.202	0.495
18.62	198550	PB	0.235	0.130
19.88	1474900	BB	0.406	0.964
20.96	1801200	BB	5.739	1.177
23.39	580000	BB	0.101	0.379
23.74	3.7936E+07	SPB	0.148	24.796

TOTAL AREA= 1.5300E+08
MUL FACTOR= 1.0000E+00

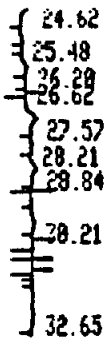
AR100401



1248
250ppb

RUN # 1137 JUN/23/90 07:45:23
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 30

AR100402



RUN # 1137 JUN/23/90 07:45:23
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 30

AREA%

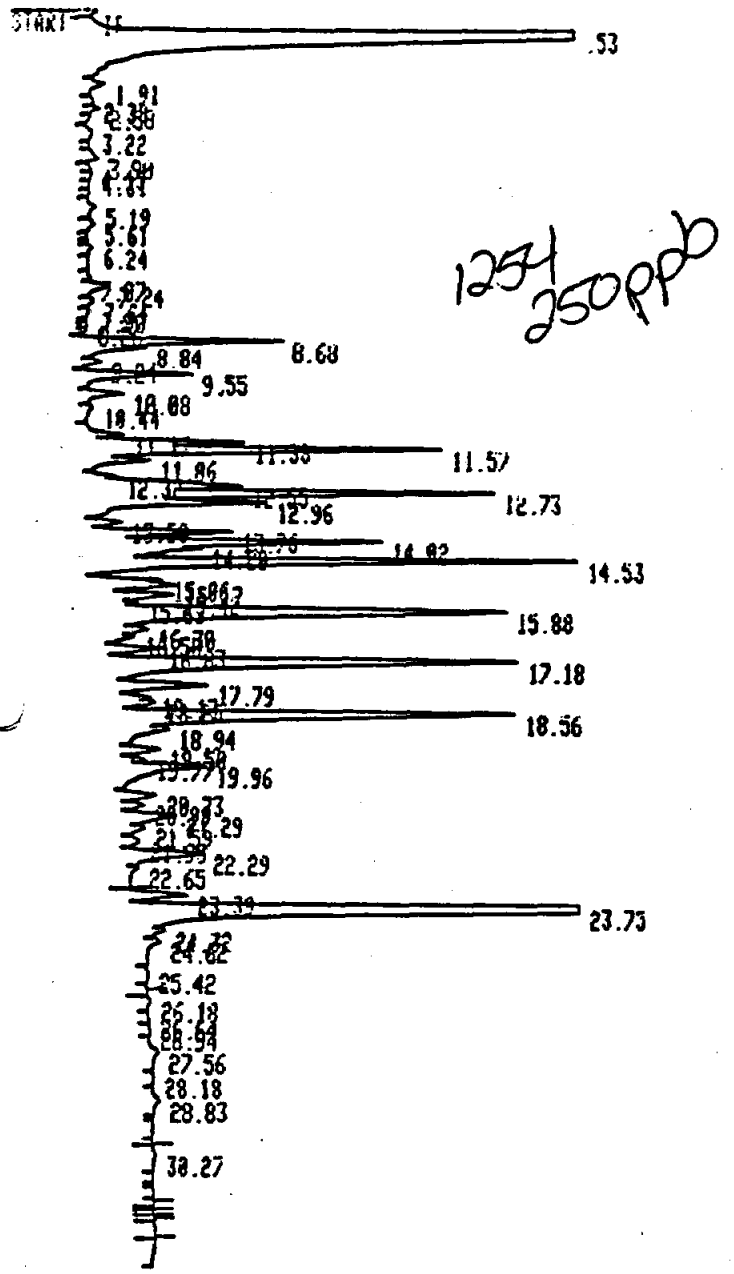
RT	AREA	TYPE	AR/HT	AREA%
0.50	7.4982E+07	↑SBB	0.162	44.973
3.89	176530	PB	0.212	0.106
4.31	163970	PB	0.130	0.098
5.61	2548000	BB	0.152	1.528
6.22	1652600	BB	0.129	0.991
6.90	255110	PB	0.129	0.153
7.23	8670700	BB	0.147	5.201
7.63	2065000	BB	0.125	1.239
7.91	1086200	BB	0.107	0.652
8.11	416580	BB	0.092	0.250
8.44	228150	BB	0.099	0.137
8.68	1791000	BB	0.091	1.074
8.85	519290	BB	0.069	0.312
8.96	334030	BB	0.050	0.200
9.55	1571600	PB	0.079	0.943
10.07	5889000	BB	0.140	3.532
10.43	1040300	BB	0.126	0.624
11.17	1963500	BB	0.100	1.178
11.37	1440300	BB	0.081	0.864
11.52	2667400	BB	0.106	1.600
11.85	174550	BB	0.082	0.105
12.31	4597000	BB	0.130	2.757
12.72	888130	BB	0.108	0.533
12.97	941000	BB	0.120	0.564
13.76	637970	BB	0.116	0.383
14.02	759370	BB	0.105	0.456
14.21	531380	BB	0.112	0.319
14.52	3040400	BB	0.176	1.824
15.06	1086700	BB	0.186	0.652
15.89	2151200	BB	0.183	1.290
17.22	2173200	BB	0.220	1.304
18.56	703890	PB	0.218	0.422
20.31	226050	PB	0.342	0.136
22.29	517510	BB	0.173	0.310
23.39	748560	PB	0.128	0.449
23.75	3.7662E+07	SPB	0.149	22.589
27.57	224710	PB	0.258	0.135
32.65	201580	PB	0.749	0.121

TOTAL AREA= 1.6673E+08
MUL FACTOR= 1.0000E+00

AR100403

[illegible]	[illegible]	PB	[illegible]	[illegible]
23.75	3.7662E+07	SPB	0.149	22.589
27.57	224710	PB	0.258	0.135
32.65	201580	PB	0.749	0.121

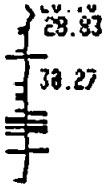
TOTAL AREA= 1.6673E+08
VOL FACTOR= 1.0000E+00



1254
250ppb

RUN # 1138 JUN/23/98 08:22:54
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 31

AR100404



RUN # 1138 JUN/23/90 08:22:54
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 31

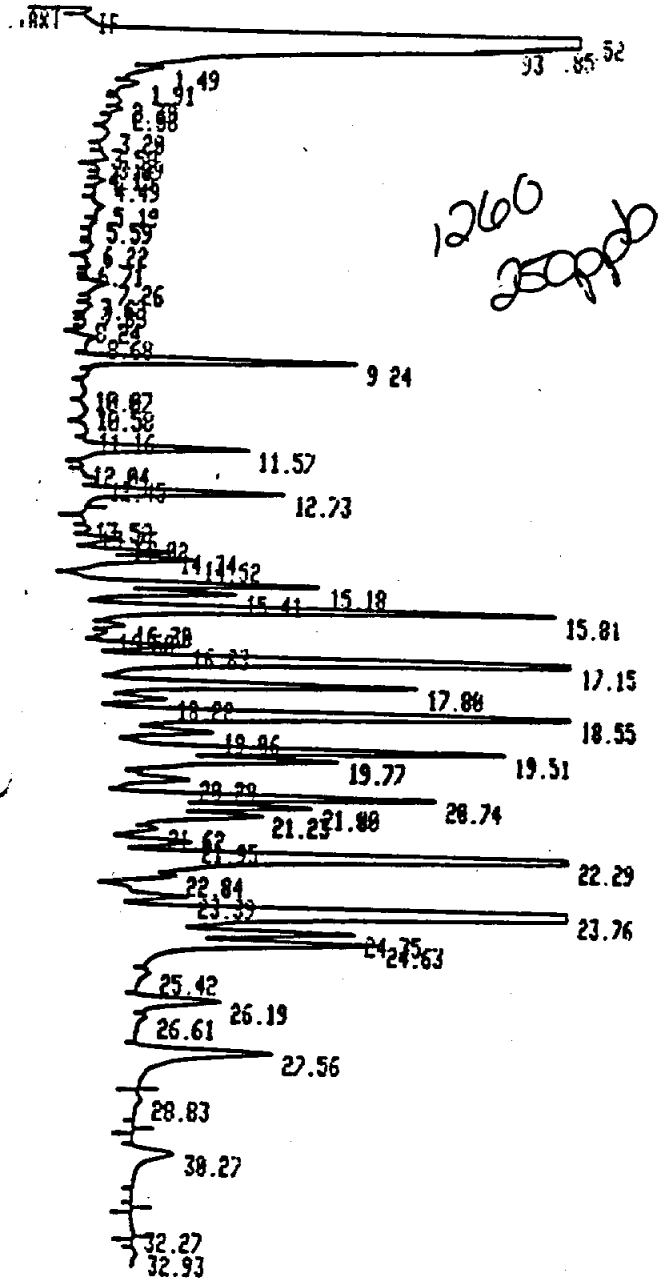
AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.53	4.7439E+07	SBB	0.199	31.492
1.91	226240	BB	0.146	0.150
3.22	151790	PB	0.250	0.101
3.90	282320	VB	0.206	0.187
7.24	313630	BB	0.148	0.208
8.68	1974300	PB	0.103	1.311
9.24	185630	BB	0.116	0.123
9.55	1805700	BB	0.146	1.199
10.08	547570	BB	0.132	0.364
11.38	927920	BB	0.090	0.616
11.57	3819900	BB	0.120	2.536
11.86	411610	BB	0.101	0.273
12.55	1128600	BB	0.136	0.749
12.73	4093600	BB	0.115	2.718
12.96	945550	BB	0.078	0.628
13.50	293540	BB	0.111	0.195
13.76	1466400	BB	0.115	0.974
14.02	2844700	BB	0.115	1.888
14.20	195820	BB	0.095	0.130
14.53	8255900	BB	0.156	5.481
15.17	325590	BB	0.098	0.216
15.42	617220	BB	0.119	0.410
15.88	8552600	BB	0.202	5.678
16.30	169020	BB	0.105	0.112
16.83	619510	BB	0.130	0.411
17.18	9626200	BB	0.213	6.390
17.79	1297300	BB	0.146	0.861
18.25	152790	BB	0.109	0.101
18.56	8111800	BB	0.191	5.385
19.50	432140	BB	0.128	0.287
19.96	1463800	BB	0.193	0.971
20.73	435660	BB	0.135	0.289
20.99	165010	BB	0.113	0.110
21.29	800550	BB	0.176	0.531
21.95	165910	BB	0.151	0.110
22.29	1396300	BB	0.176	0.927
23.39	754060	PB	0.127	0.501
23.75	3.7850E+07	SPB	0.151	25.127
27.56	226160	BB	0.272	0.150
28.83	166210	BB	0.239	0.110

TOTAL AREA= 1.5064E+08
MUL FACTOR= 1.0000E+00

AR100405

TOTAL AREA= 1.5064E+08
MUL FACTOR= 1.0000E+00



RUN # 1139 JUN/23/90 09:00:28
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 32

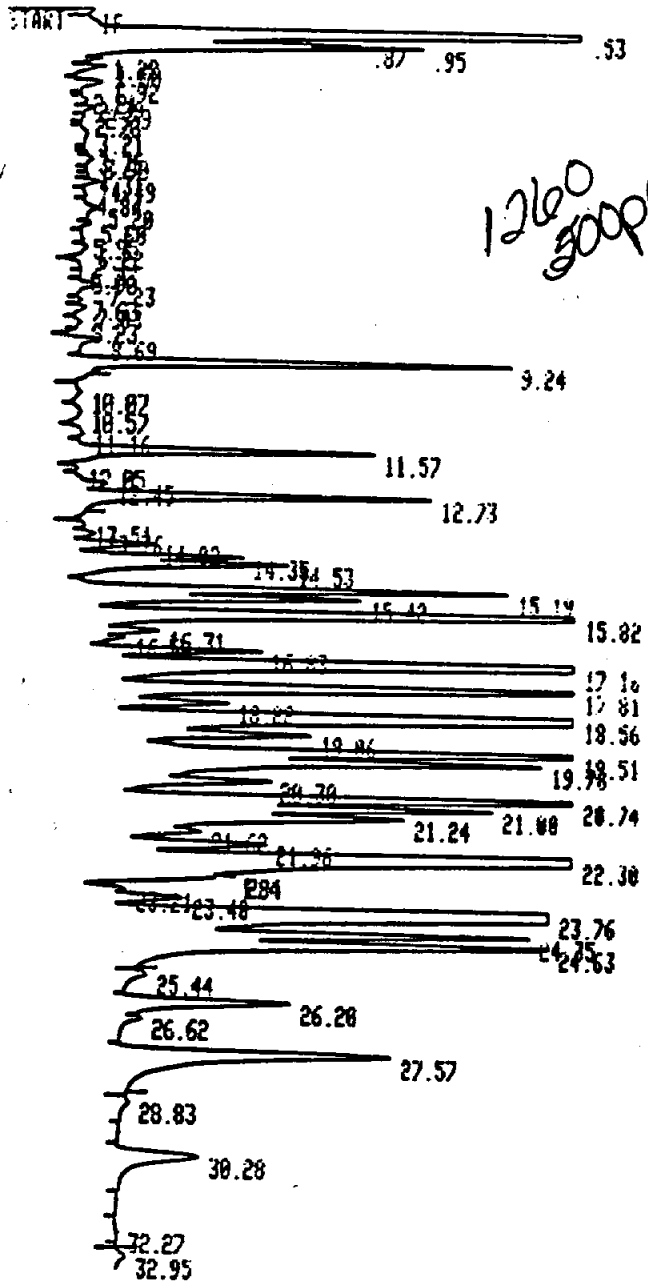
AR100406

WORKFILE NAME:
SAMPLE # 32

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.52	2.8214E+07	SBB	0.139	15.664
0.85	210570	SPB	0.056	0.117
0.93	218230	BB	0.049	0.121
1.91	220690	BB	0.128	0.123
3.20	224330	PB	0.274	0.125
3.89	312980	BB	0.191	0.174
5.19	213350	PB	0.195	0.119
6.22	270790	VB	0.284	0.150
7.26	382780	VB	0.172	0.213
8.68	456730	PB	0.201	0.254
9.24	4000600	BB	0.131	2.221
10.58	267540	BB	0.312	0.149
11.16	179190	BB	0.280	0.100
11.57	2919700	BB	0.154	1.621
12.73	3063700	BB	0.141	1.701
14.02	549730	BB	0.134	0.305
14.34	618070	BB	0.094	0.343
14.52	1255500	BB	0.141	0.697
15.18	2565600	BB	0.114	1.424
15.41	1394200	BB	0.118	0.774
15.81	8421300	BB	0.163	4.675
16.30	257400	BB	0.108	0.143
16.83	1159500	BB	0.132	0.644
17.15	1.2960E+07	BB	0.130	7.195
17.80	5563900	BB	0.165	3.089
18.22	692050	BB	0.130	0.384
18.55	1.2007E+07	BB	0.196	6.666
19.06	1065800	BB	0.133	0.592
19.51	4832100	BB	0.130	2.683
19.77	2445200	BB	0.144	1.358
20.29	1082300	BB	0.157	0.601
20.74	4230000	BB	0.137	2.348
21.00	1491600	BB	0.116	0.828
21.23	1219500	BB	0.137	0.677
21.62	258180	BB	0.120	0.143
21.95	1010600	BB	0.150	0.561
22.29	1.5735E+07	BB	0.204	8.736
22.84	378470	BB	0.145	0.210
23.39	1240200	BB	0.180	0.689
23.76	4.4034E+07	SPB	0.163	24.447
24.35	2219200	BB	0.132	1.232
24.63	2493400	BB	0.127	1.384
26.19	1736000	BB	0.190	0.964
27.56	4598700	BB	0.300	2.553
30.27	1450800	PB	0.316	0.805

TOTAL AREA= 1.8012E+08
MUL FACTOR= 1.0000E+00



RUN # 1140 JUN/23/90 09:38:04
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 33

RUN # 1140 JUN/23/90 09:38:04
WORKFILE ID: B1
WORKFILE NAME:
SAMPLE # 33

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.53	2.6422E+07	SBB	0.125	9.604
0.87	412100	BB	0.050	0.150
0.95	568070	BB	0.038	0.207
1.50	346610	BB	0.117	0.126
1.92	443610	BB	0.148	0.161
3.21	151040	PB	0.236	0.055
4.49	181580	BB	0.105	0.066
5.20	237220	BB	0.164	0.086
6.22	372920	BB	0.291	0.136
6.73	157900	BB	0.310	0.057
7.23	356610	BB	0.153	0.130
7.83	192100	BB	0.155	0.070
8.69	780300	PB	0.197	0.284
9.24	6956600	BB	0.142	2.529
10.07	224700	BB	0.271	0.082
10.57	416060	BB	0.347	0.151
11.16	266480	BB	0.269	0.097
11.57	5283600	BB	0.154	1.920
12.45	210400	BB	0.106	0.077
12.73	5538700	BB	0.144	2.013
13.76	157180	SB	0.115	0.057
14.02	1027600	BB	0.136	0.374
14.35	1127600	BB	0.095	0.410
14.53	1760600	BB	0.113	0.640
15.19	4289000	BB	0.108	1.559
15.42	2586500	BB	0.120	0.940
15.82	1.5219E+07	BB	0.166	5.532
16.31	492120	BB	0.110	0.179
16.83	2202600	BB	0.134	0.801
17.16	2.3370E+07	BB	0.183	8.494
17.81	1.0403E+07	BB	0.166	3.781
13.22	1313600	BB	0.132	0.478
18.56	2.2205E+07	BB	0.201	8.071
19.06	2023300	BB	0.135	0.735
19.51	8850400	BB	0.132	3.217
19.78	3980300	BB	0.129	1.447
20.30	1657100	BB	0.137	0.602
20.74	7974500	BB	0.137	2.899
21.00	2785400	BB	0.117	1.012
21.24	2337700	BB	0.137	0.850
21.62	474220	BB	0.124	0.172
21.96	1941200	BB	0.153	0.706
22.30	2.9675E+07	BB	0.205	10.786
22.84	681940	BB	0.137	0.248
23.40	823190	BB	0.129	0.299
23.76	5.0643E+07	SPB	0.176	18.407
24.35	4318300	BB	0.134	1.570
24.63	4992200	BB	0.130	1.815
25.44	234500	BB	0.162	0.085
26.20	3492100	BB	0.190	1.269
27.57	9419700	BB	0.305	3.424
30.28	2876300	PB	0.314	1.045
32.95	272610	I BH	0.273	0.099

TOTAL AREA= 2.7512E+08
MUL FACTOR= 1.0000E+00

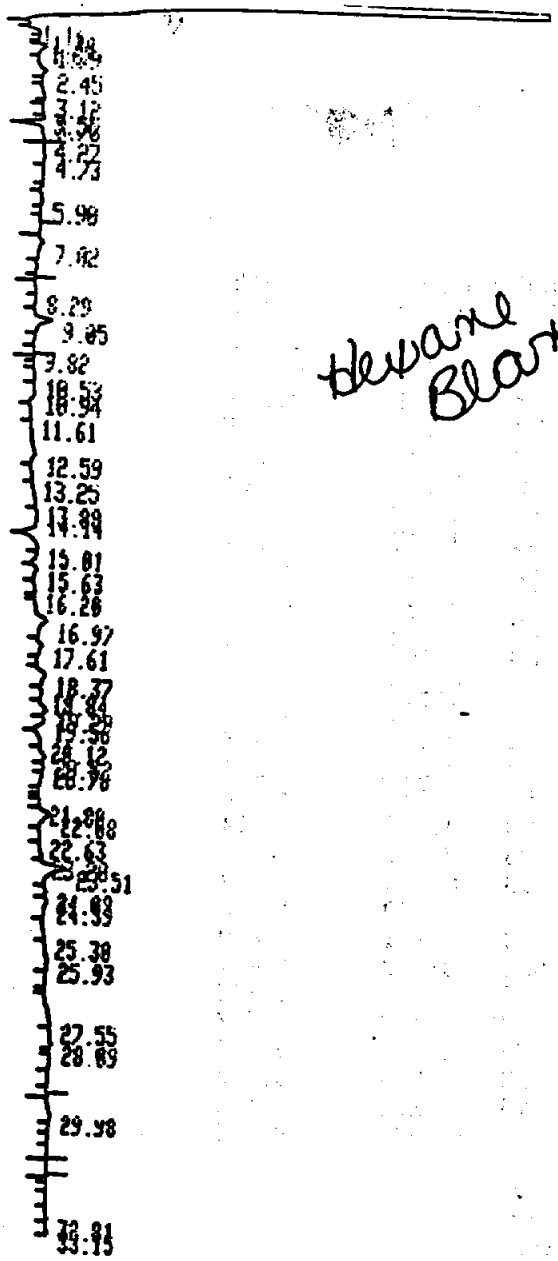
AR100409

AR100

samples and bracketing Standards

Quantitative Curve

Hexane Blank



RUN # 1169 JUN/26/90 09:13:56
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 1

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.51	3.1475E+07	SBB	0.121	90.009
3.73	191150	BB	0.135	0.547
4.27	505080	BB	0.977	1.444
9.05	316830	PB	0.160	0.906
12.59	281300	BB	0.507	0.804
14.14	496380	BB	0.903	1.420
15.01	207260	BB	0.395	0.593
16.97	354150	VB	0.282	1.013
18.37	171160	PB	0.216	0.490
19.56	150070	BB	0.275	0.429
22.08	267080	BB	0.213	0.764
23.51	553260	BB	0.201	1.582

TOTAL AREA= 3.4969E+07
MUL FACTOR= 1.0000E+00

AR100410

RUN # 1170 JUN/26/90 09:50:27
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 2

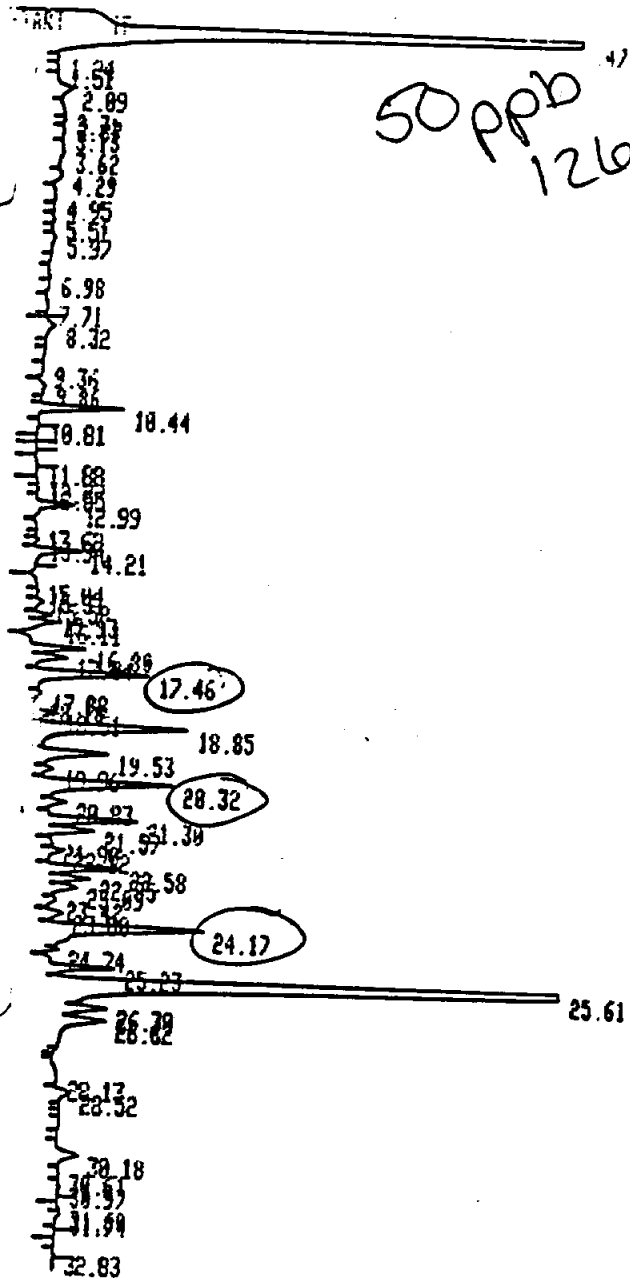
AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.46	3.9843E+07	SBB	0.147	42.631
1.79	253700	PB	0.156	0.272
3.57	187240	BB	0.240	0.200
7.03	237810	PB	0.191	0.255
9.00	745260	BB	0.126	0.797
11.31	367720	BB	0.155	0.394
12.46	361710	VB	0.133	0.387
14.24	365980	BB	0.278	0.392
14.90	484290	BB	0.145	0.518
15.13	179650	BB	0.118	0.192
15.53	1118300	BB	0.157	1.197
16.86	1758100	BB	0.175	1.881
17.51	706610	BB	0.165	0.756
18.25	1584800	BB	0.199	1.696
19.21	658850	PB	0.131	0.705
19.47	441190	BB	0.183	0.472
19.99	255820	BB	0.210	0.274
20.43	539610	BB	0.132	0.577
20.69	199680	BB	0.117	0.214
20.92	150900	BB	0.139	0.162
21.64	172200	BB	0.156	0.184
21.98	1736700	BB	0.179	1.858
23.09	803700	BB	0.131	0.860
23.45	3.8339E+07	SPB	0.150	41.021
24.02	254940	BB	0.127	0.273
24.31	324240	BB	0.142	0.347
25.86	210750	PB	0.178	0.226
27.20	424890	PB	0.240	0.455
28.44	181310	VB	0.252	0.194
29.79	573260	BB	0.629	0.613

TOTAL AREA= 9.3461E+07
FUL FACTOR= 1.0000E+00

AR100411

AR1004



RUN # 1171
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 3

JUN/26/90 10:26:59

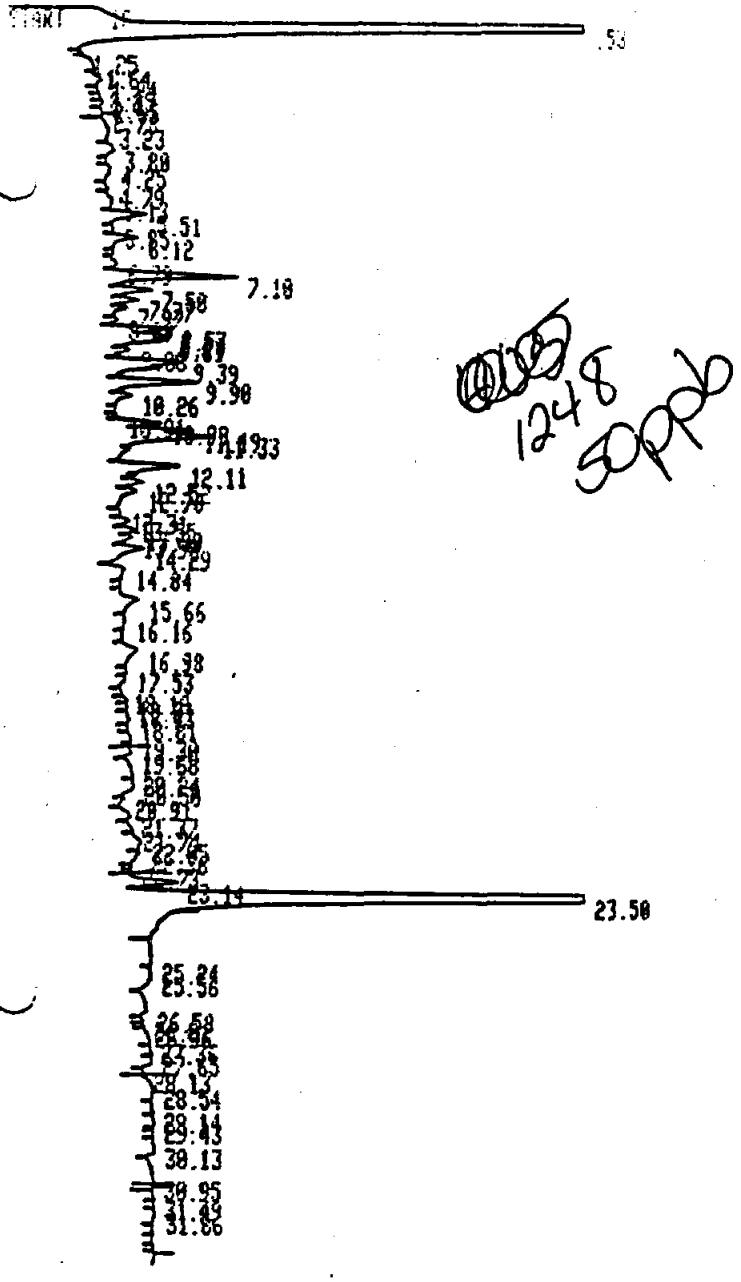
AR100412

RUN # 1171 JUN/26/90 10:26:59
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 3

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.47	4.1108E+07	SBB	0.153	39.282
2.09	272380	BB	0.207	0.260
4.29	168450	BB	0.301	0.161
8.32	235060	BB	0.217	0.225
9.36	189900	VB	0.323	0.182
9.86	151330	BB	0.219	0.145
10.44	1152700	VB	0.120	1.102
12.99	698850	BB	0.159	0.668
14.21	767060	BB	0.144	0.733
16.11	434060	BB	0.184	0.415
16.80	764820	BB	0.137	0.731
17.04	347970	BB	0.120	0.333
17.46	1949800	BB	0.151	1.863
18.51	258720	BB	0.129	0.247
18.85	3058300	BB	0.181	2.922
19.53	1260900	BB	0.169	1.205
20.32	2767300	BB	0.189	2.644
20.83	241880	BB	0.125	0.231
21.30	1166500	BB	0.125	1.115
21.57	569290	BB	0.125	0.544
22.12	207350	BB	0.139	0.198
22.58	1001600	BB	0.133	0.957
22.85	395040	BB	0.116	0.378
23.09	309490	BB	0.141	0.296
23.80	277050	BB	0.160	0.265
24.12	3460200	BB	0.199	3.307
25.23	1003000	BB	0.140	0.958
25.61	3.8424E+07	SPB	0.139	36.717
26.30	497490	BB	0.138	0.475
26.62	556990	BB	0.137	0.532
28.13	176940	PB	0.436	0.169
28.52	291530	BB	0.193	0.279
30.18	485570	PB	0.210	0.464

TOTAL AREA= 1.0465E+08
MUL FACTOR= 1.0000E+00



RUN # 1172 JUN/26/90 11:19:54
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 4

AR100414

RUN # 1172 JUN/26/90 11:19:54
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 4

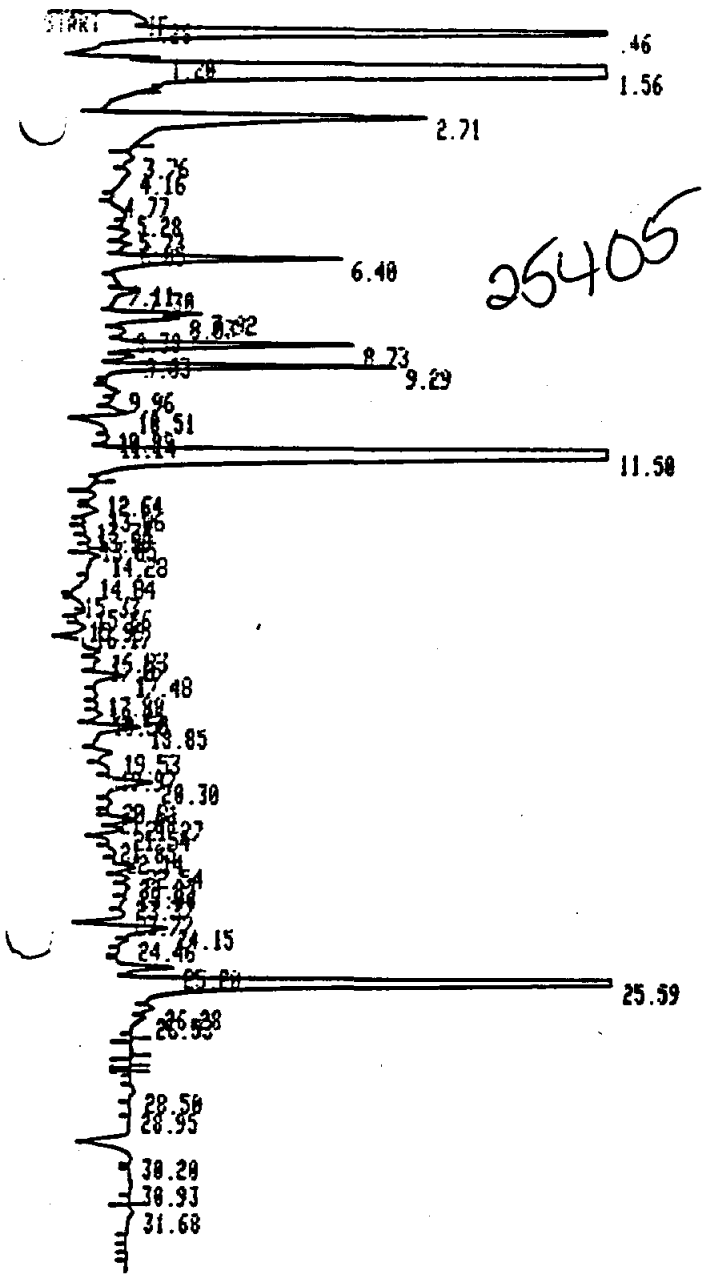
AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.53	5.1508E+07	SBB	0.152	51.248
1.64	155260	BB	0.391	0.155
3.23	198360	PB	0.342	0.197
3.80	184620	BB	0.218	0.184
5.51	591790	BB	0.149	0.589
6.12	346260	BB	0.125	0.345
7.10	1971800	BB	0.143	1.962
7.50	427830	BB	0.120	0.426
7.77	207140	BB	0.103	0.206
8.53	395670	BB	0.089	0.394
9.39	347420	BB	0.081	0.346
9.90	1227600	PB	0.140	1.221
10.26	199370	BB	0.128	0.198
10.99	350820	BB	0.097	0.349
11.19	268960	BB	0.079	0.268
11.33	568940	BB	0.109	0.566
12.11	783750	PB	0.131	0.780
12.52	170450	PB	0.111	0.170
12.76	155560	BB	0.122	0.155
14.29	591320	BB	0.209	0.588
14.84	280180	BB	0.213	0.279
15.66	399130	PB	0.225	0.397
16.98	410100	PB	0.268	0.408
20.50	210420	BB	0.366	0.209
21.37	161650	BB	0.207	0.161
23.14	649660	PB	0.134	0.646
23.50	3.6498E+07	BB	0.164	36.314
25.56	322300	BB	0.589	0.321
26.58	354990	BB	0.460	0.353
28.54	279680	PB	0.359	0.278
30.13	289450	VB	0.421	0.288

TOTAL AREA= 1.0051E+08
MUL FACTOR= 1.0000E+00

AR100415

AR100415



25405

AR100416

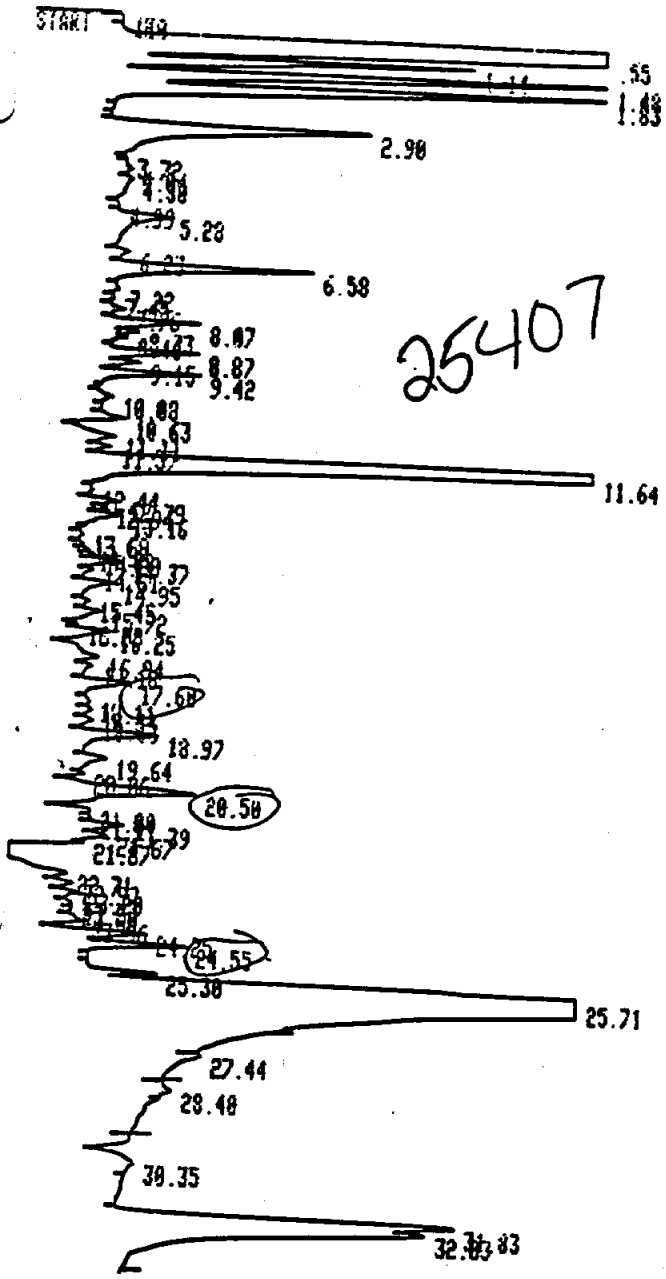
RUN # 1173 JUN/26/90 11:56:32
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 5

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.26	162110	PB	0.194	0.073
0.46	2.0789E+07	SPB	0.103	9.349
1.20	211600	BB	0.045	0.095
1.56	4.9435E+07	SPB	0.239	22.231
2.71	8685100	PB	0.239	3.906
4.16	347750	BB	0.365	0.156
5.73	184630	PB	0.161	0.083
6.05	168950	BB	0.132	0.076
6.40	3700200	BB	0.145	1.664
7.30	355060	BB	0.140	0.160
7.92	330650	BB	0.061	0.149
8.73	3293200	BB	0.123	1.481
9.03	239160	BB	0.110	0.108
9.29	3653700	BB	0.113	1.643
10.51	850820	VB	0.180	0.383
10.99	304400	BB	0.539	0.137
11.50	8.8307E+07	↑SPB	0.192	39.712
13.06	239720	VB	0.169	0.108
14.28	214640	BB	0.163	0.097
16.17	392960	BB	0.271	0.177
16.83	534840	BB	0.309	0.241
17.48	514700	BB	0.143	0.232
18.50	178260	BB	0.180	0.080
18.85	1076000	BB	0.190	0.484
19.53	299180	BB	0.161	0.135
20.38	952950	BB	0.188	0.429
21.27	362120	BB	0.129	0.163
21.54	268900	BB	0.138	0.121
22.54	303560	BB	0.135	0.137
23.77	658580	BB	0.268	0.296
24.15	1488300	BB	0.195	0.669
25.20	641820	PB	0.113	0.289
25.59	3.2478E+07	SPB	0.138	14.606
30.20	745720	PB	0.467	0.335

TOTAL AREA= 2.2237E+08
MUL FACTOR= 1.0000E+00

AR100417



25407

RUN # 1174
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 6

JUN/26/90 12:33:15

AR100418

RUN # 1174 JUN/26/90 12:33:15
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 6

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.55	1.4650E+08	↑SPB	0.320	35.785
1.14	4917900	BB	0.135	1.201
1.48	7701000	BB	0.126	1.881
1.83	8485500	BB	0.143	2.073
2.90	7735100	PB	0.264	1.889
4.30	335760	BB	0.391	0.082
5.28	1571100	BB	0.268	0.384
6.23	197400	BB	0.140	0.048
6.58	3736600	BB	0.168	0.913
7.76	219520	BB	0.126	0.054
8.07	1223800	BB	0.129	0.299
8.87	1170500	BB	0.123	0.286
9.15	284800	BB	0.100	0.070
9.42	1245300	BB	0.118	0.304
10.08	203580	PB	0.141	0.050
10.63	894050	VB	0.169	0.218
11.11	569800	BB	0.182	0.139
11.37	163680	BB	0.092	0.040
11.64	8.2050E+07	↑SPB	0.178	20.041
12.79	272750	BB	0.101	0.067
13.16	430800	BB	0.130	0.105
14.37	438130	BB	0.112	0.107
14.95	635650	BB	0.169	0.155
15.72	454910	BB	0.183	0.111
16.25	811660	BB	0.178	0.198
16.94	652320	BB	0.280	0.159
17.18	178620	BB	0.158	0.044
17.60	974020	BB	0.174	0.238
18.63	209980	BB	0.162	0.051
18.97	1765500	BB	0.196	0.431
19.64	540350	BB	0.193	0.132
20.50	4417600	BB	0.282	1.079
21.00	243850	BB	0.141	0.060
21.39	480460	BB	0.125	0.117
21.67	283660	BB	0.129	0.069
22.71	2802800	BB	0.649	0.685
22.97	222040	BB	0.117	0.054
23.20	208020	BB	0.121	0.051
23.96	549910	BB	0.182	0.134
24.25	1271600	BB	0.150	0.311
24.55	1289100	BB	0.123	0.315
25.30	152580	PB	0.030	0.037
25.71	1.1848E+08	SPB	0.304	28.940
28.40	220200	BB	0.183	0.054
30.35	1019200	PB	0.423	0.249
31.83	1190500	PB	0.086	0.291

TOTAL AREA= 4.0940E+08
MUL FACTOR= 1.0000E+00

AR100419

AR100419

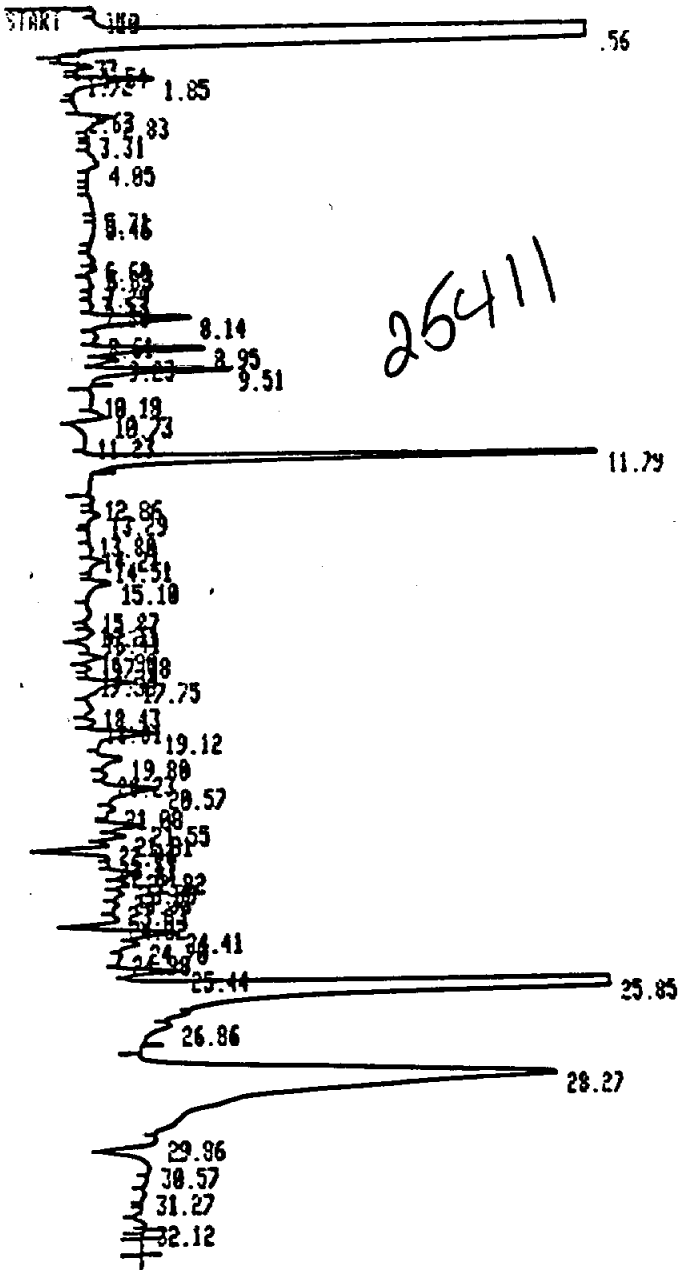
RUN # 1177 JUN/26/90 14:22:34
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 9

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.55	1.2528E+08	†SPB	0.274	46.790
1.50	877320	BB	0.105	0.328
1.80	2312500	BB	0.161	0.864
3.96	215180	BB	0.351	0.080
4.60	176680	VB	0.172	0.066
6.68	618070	BB	0.153	0.231
7.01	210940	BB	0.147	0.079
7.33	883080	BB	0.143	0.330
8.46	4108700	BB	0.151	1.535
8.91	484360	BB	0.127	0.181
9.21	1157100	BB	0.112	0.432
9.43	157860	BB	0.080	0.059
10.05	947350	BB	0.092	0.354
10.23	482590	BB	0.075	0.180
10.36	350620	BB	0.087	0.131
11.13	307240	BB	0.045	0.115
11.56	3806300	BB	0.143	1.422
11.95	612860	BB	0.119	0.229
12.73	1352100	BB	0.101	0.505
12.94	624690	BB	0.078	0.233
13.12	4392600	BB	0.140	1.641
13.94	3283600	BB	0.127	1.226
14.37	2977000	BB	0.116	1.112
14.62	581780	BB	0.098	0.217
15.46	759520	BB	0.117	0.284
15.73	1326700	BB	0.106	0.496
16.07	368600	BB	0.078	0.138
16.26	4088300	BB	0.140	1.527
16.94	2765800	BB	0.127	1.033
17.19	1445100	BB	0.117	0.540
17.60	1.0605E+07	BB	0.192	3.961
18.11	252560	BB	0.105	0.094
18.64	1299800	BB	0.132	0.486
18.98	1.6185E+07	BB	0.208	6.045
19.65	5351600	BB	0.163	1.999
20.08	886470	BB	0.149	0.331
20.42	1.4093E+07	BB	0.196	5.264
20.92	940940	BB	0.117	0.351
21.39	5080900	BB	0.128	1.898
21.66	2280500	BB	0.118	0.852
21.87	324750	BB	0.125	0.121
22.21	987780	BB	0.143	0.369
22.65	4582200	BB	0.137	1.711
22.93	1747700	BB	0.119	0.653
23.17	1569700	BB	0.149	0.586
23.55	299300	BB	0.119	0.112
23.89	1146500	BB	0.166	0.428
24.25	1.7792E+07	BB	0.211	6.645
25.82	1567700	BB	0.101	0.586
26.38	2437000	BB	0.143	0.910
26.69	3255000	BB	0.156	1.216
28.62	1729700	PB	0.235	0.646
29.13	255340	BB	0.505	0.095
30.32	6124500	BB	0.461	2.287

TOTAL AREA= 2.6775E+08
MUL FACTOR= 1.0000E+00

AR100420



26411

RUN # 1175 JUN/26/90 13:09:54
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 7

AR10

AR100421

32.12

RUN # 1175 JUN/26/90 13:09:54
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 7

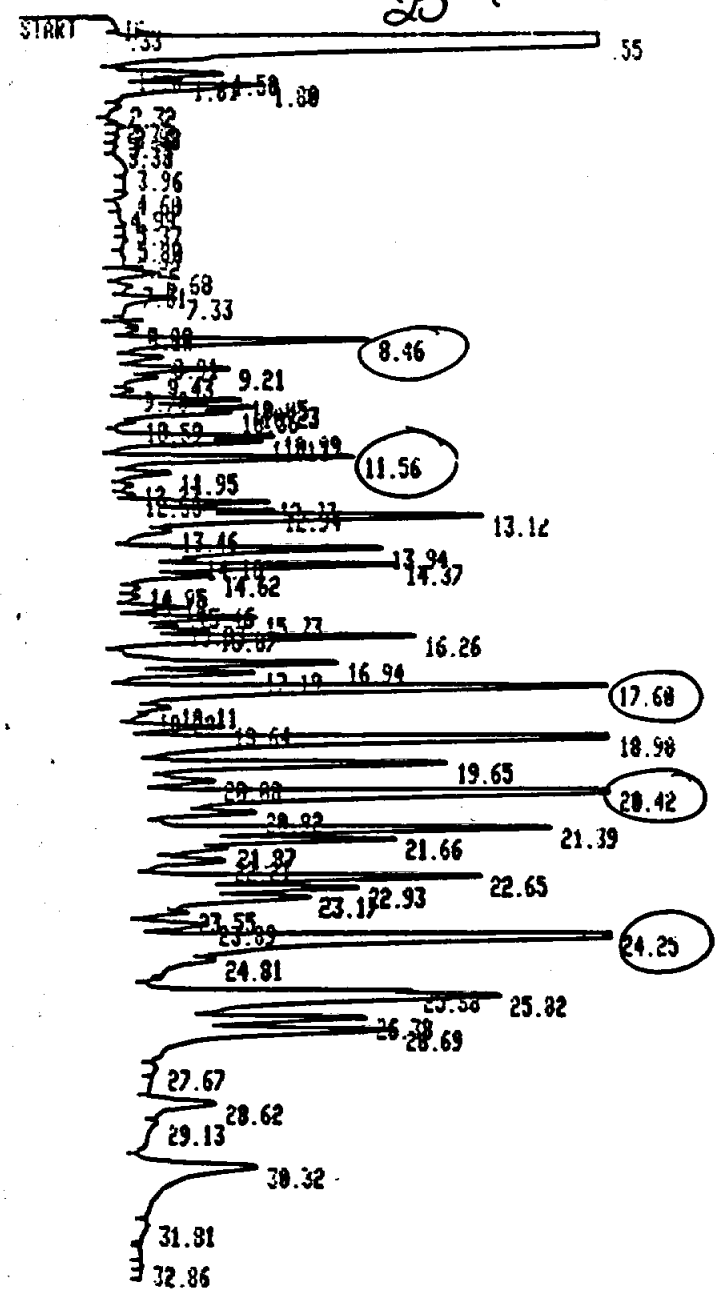
AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.56	1.4695E+08	†SPB	0.320	56.228
1.54	309400	BB	0.118	0.118
1.85	1315700	BB	0.150	0.503
4.05	338120	PB	0.274	0.129
8.14	1871400	BB	0.170	0.716
8.95	1425800	BB	0.117	0.545
9.23	239580	BB	0.103	0.092
9.51	1827400	BB	0.122	0.699
10.73	472800	BB	0.171	0.181
11.23	403520	BB	0.404	0.154
11.79	9398800	BB	0.130	3.596
14.51	210590	BB	0.131	0.081
15.10	417910	VB	0.175	0.160
15.87	221360	BB	0.291	0.085
16.41	294670	BB	0.238	0.113
17.08	243240	BB	0.130	0.093
17.75	1070400	BB	0.212	0.410
18.43	254730	BB	0.292	0.098
18.81	171040	BB	0.167	0.066
19.12	1345000	BB	0.186	0.515
19.88	411380	BB	0.170	0.157
20.57	1184400	BB	0.201	0.453
21.55	453210	PB	0.127	0.173
21.81	250940	BB	0.120	0.096
22.06	511740	BB	0.138	0.196
22.41	415410	BB	0.249	0.159
22.82	363390	BB	0.135	0.139
23.09	154560	BB	0.120	0.059
24.02	699140	BB	0.240	0.268
24.41	1540100	BB	0.179	0.589
25.44	735290	BB	0.112	0.281
25.85	5.5390E+07	SPB	0.181	21.195
28.27	2.8625E+07	PB	0.614	10.953
29.86	810860	BB	0.365	0.310
30.57	1018200	BB	0.510	0.390

TOTAL AREA= 2.6134E+08
MUL FACTOR= 1.0000E+00

AR100422

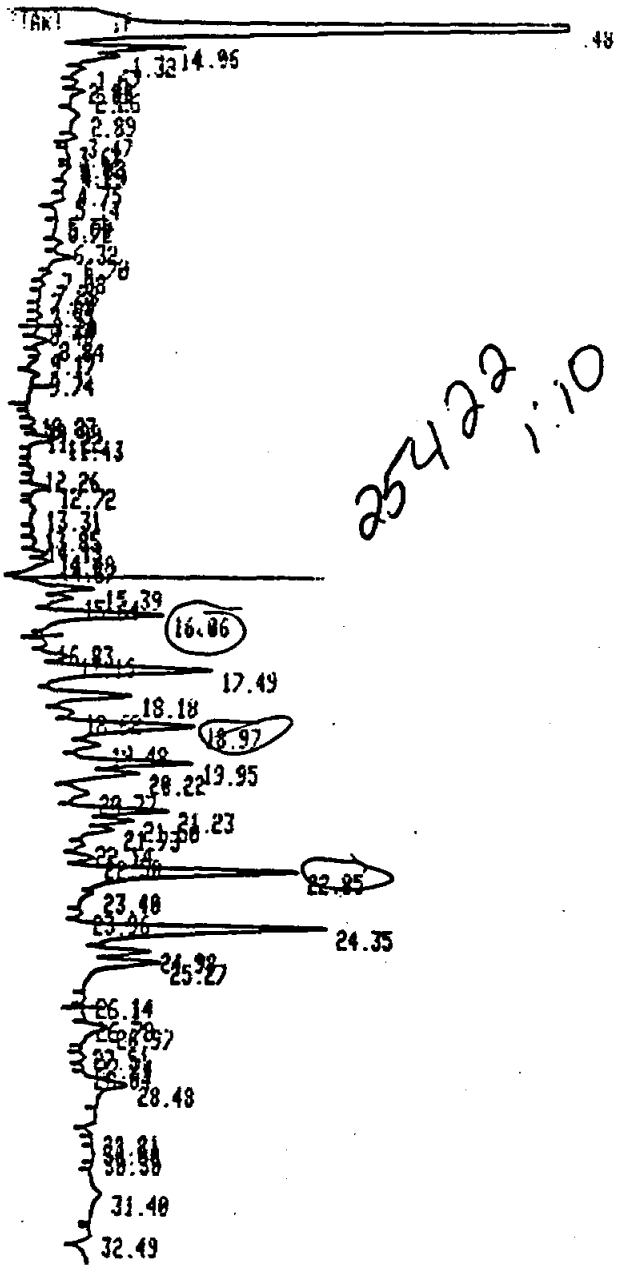
25420 1:10



RUN # 1177 JUN/26/90 14:22:54
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 9

AR100420

AR100423



25422 i:10

RUN # 1179 JUN/26/90 15:26:51
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 10

AR100424

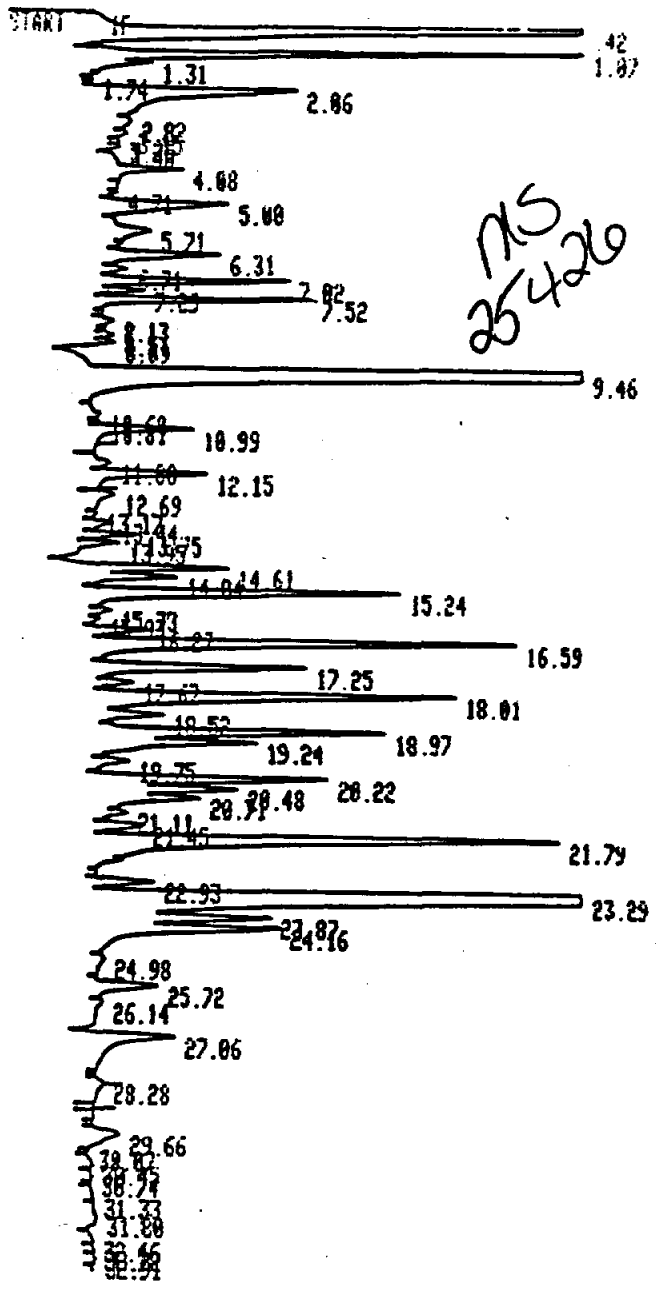
RUN # 1179 JUN/26/90 15:26:51
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 10

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.48	3.8268E+07	SBB	0.148	50.189
1.06	537840	BB	0.071	0.705
1.32	236710	BB	0.110	0.311
2.26	159650	BB	0.109	0.209
2.89	297040	BB	0.260	0.390
5.14	185340	BB	0.191	0.243
6.70	329650	BB	0.144	0.432
8.84	238330	PB	0.138	0.313
9.74	199740	PB	0.166	0.262
11.43	406840	BB	0.150	0.534
12.72	285220	PB	0.137	0.374
14.67	637880	BB	0.331	0.837
15.39	950120	BB	0.168	1.246
15.64	268530	BB	0.126	0.352
16.86	2565000	BB	0.193	3.364
17.15	321350	BB	0.145	0.422
17.49	3716200	BB	0.206	4.874
18.18	1641700	BB	0.181	2.153
18.62	196390	BB	0.149	0.258
18.97	3151200	BB	0.229	4.133
19.48	343540	BB	0.145	0.451
19.95	1534900	BB	0.138	2.013
20.22	866300	BB	0.174	1.136
20.77	580110	BB	0.239	0.761
21.23	1293700	BB	0.144	1.697
21.50	424950	BB	0.121	0.557
21.73	242440	BB	0.120	0.318
22.50	303500	BB	0.158	0.398
22.85	5561500	BB	0.226	7.294
24.35	5998600	BB	0.217	7.867
24.98	729470	BB	0.138	0.957
25.27	821240	BB	0.131	1.077
26.97	670740	BB	0.264	0.880
28.48	1307200	BB	0.294	1.714
31.40	605980	PB	0.471	0.795
32.49	370330	VB	0.355	0.486

TOTAL AREA= 7.6247E+07
MUL FACTOR= 1.0000E+00

AR100425



RUN # 1181 JUN/26/90 16:40:35
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 13

AR100426

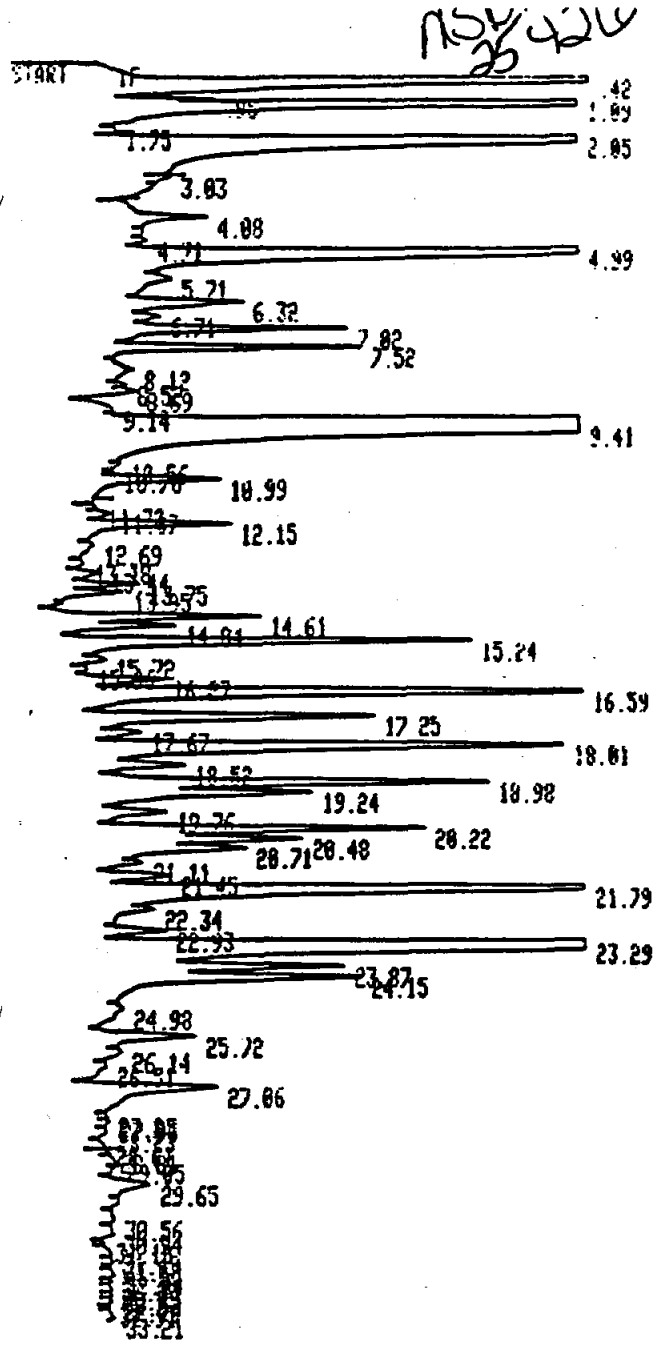
RUN # 1181 JUN/26/90 16:40:35
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 13

AREA% RT	AREA	TYPE	AR/HT	AREA%
0.42	3.2365E+07	SBB	0.109	12.381
1.07	5917900	BB	0.107	2.264
1.31	242310	BB	0.089	0.093
2.06	5702400	PB	0.253	2.181
4.08	1229900	BB	0.157	0.471
5.00	2653000	BB	0.194	1.015
5.71	695830	BB	0.190	0.266
6.31	1812200	PB	0.152	0.693
6.71	204670	BB	0.120	0.078
7.02	2315400	BB	0.115	0.886
7.29	406160	BB	0.097	0.155
7.52	2667400	BB	0.113	1.020
8.69	379330	BB	0.132	0.145
9.46	8.3627E+07	†SPB	0.184	31.991
10.99	1523000	BB	0.141	0.583
11.88	200210	PB	0.144	0.077
12.15	1764000	BB	0.143	0.675
12.69	376930	BB	0.187	0.144
13.44	289770	BB	0.133	0.111
13.75	547950	BB	0.105	0.210
13.95	822930	BB	0.189	0.315
14.61	1878000	BB	0.127	0.718
14.84	891890	BB	0.120	0.341
15.24	5692900	BB	0.164	2.178
15.73	166280	BB	0.115	0.064
16.27	779950	BB	0.137	0.298
16.59	8552900	BB	0.181	3.272
17.25	3838400	BB	0.166	1.468
17.67	467240	BB	0.141	0.179
18.01	7913500	BB	0.200	3.027
18.52	770330	BB	0.137	0.295
18.97	3610900	BB	0.133	1.381
19.24	1595500	BB	0.134	0.610
19.75	487910	BB	0.147	0.187
20.22	3022200	BB	0.135	1.156
20.48	1095900	BB	0.119	0.419
20.71	764650	BB	0.125	0.293
21.11	216000	BB	0.126	0.083
21.45	698360	BB	0.154	0.267
21.79	1.0665E+07	BB	0.207	4.080
22.93	832010	PB	0.131	0.318
23.29	5.1527E+07	SPB	0.181	19.711
23.87	1566200	BB	0.131	0.599
24.16	1803200	BB	0.124	0.690
24.98	152830	BB	0.231	0.059
25.72	1274900	BB	0.184	0.488
26.14	652210	BB	0.080	0.250
27.86	3330800	BB	0.314	1.274
29.66	1029200	VB	0.298	0.394
31.80	390950	BB	0.501	0.150

TOTAL AREA= 2.6141E+08
MUL FACTOR= 1.0000E+00

AR100427

AR100



RUN # 1182 JUN/26/90 17:17:33
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 14

AR100428

RUN # 1182 JUN/26/90 17:17:33
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 14

AREA% RT	AREA	TYPE	AR/HT	AREA%
0.42	3.5860E+07	SBB	0.115	8.868
0.95	314440	BB	0.051	0.078
1.09	2.3331E+07	SPB	0.142	5.770
2.05	2.3341E+07	PB	0.254	5.772
4.08	1384400	PB	0.168	0.342
4.99	2.1504E+07	BB	0.194	5.318
5.71	452160	BB	0.191	0.112
6.32	1888400	BB	0.162	0.467
6.71	216360	BB	0.114	0.054
7.02	3092500	BB	0.131	0.765
7.52	3034200	BB	0.112	0.750
8.12	438990	BB	0.209	0.109
9.69	456860	BB	0.131	0.113
9.14	285830	BB	0.364	0.071
9.41	1.4843E+08	†SPB	0.329	36.706
10.99	1729800	BB	0.137	0.428
11.87	184790	BB	0.118	0.046
12.15	2208500	BB	0.145	0.546
12.69	187020	BB	0.210	0.046
13.44	309500	BB	0.124	0.077
13.75	668970	BB	0.106	0.165
13.95	570840	BB	0.112	0.141
14.61	2403400	PB	0.125	0.594
14.84	1011100	BB	0.115	0.250
15.24	7389800	BB	0.165	1.827
15.72	265150	BB	0.132	0.066
16.27	947100	BB	0.130	0.234
16.59	1.1561E+07	BB	0.187	2.859
17.25	5280400	BB	0.170	1.306
17.67	476060	BB	0.131	0.118
18.01	1.0332E+07	BB	0.201	2.555
18.52	976230	BB	0.134	0.241
18.98	5123700	BB	0.137	1.268
19.24	2300300	BB	0.143	0.569
19.76	980000	BB	0.158	0.242
20.22	4168200	BB	0.137	1.031
20.48	1477000	BB	0.117	0.365
20.71	1081400	BB	0.132	0.267
21.11	231900	BB	0.111	0.057
21.45	955980	BB	0.153	0.236
21.79	1.5108E+07	BB	0.208	3.736
22.93	774140	BB	0.134	0.191
23.29	4.8681E+07	SPB	0.175	12.038
23.87	2292400	BB	0.133	0.567
24.15	2316600	BB	0.115	0.573
24.98	474240	BB	0.361	0.117
25.72	1815900	BB	0.184	0.449
26.14	219940	BB	0.195	0.054
26.51	403570	BB	0.412	0.100
27.06	4157700	BB	0.283	1.028
29.65	875100	PB	0.222	0.216
30.94	250670	BB	0.240	0.062
33.21	158140	I BP	0.189	0.039

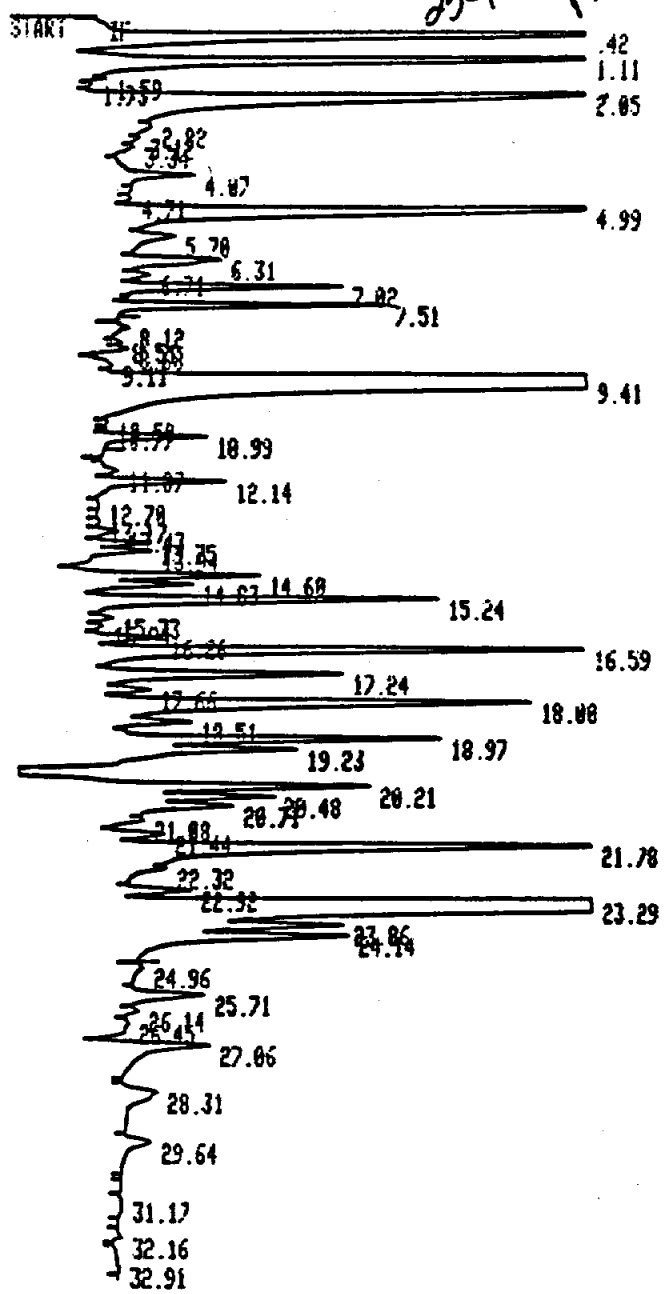
TOTAL AREA= 4.0438E+08
MIN FACTOR= 1.0000E+00

AR100429

AR100422

MUL FACTOR= 1.0000E+00

25426 MSD2



RUN # 1183 JUN/26/90 17:54:02
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 15

AR100430

32.16
32.91

RUN # 1183 JUN/26/90 17:54:02
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 15

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.42	3.0993E+07	SPB	0.096	8.524
1.11	1.1463E+07	BB	0.162	3.153
2.05	1.4944E+07	BB	0.232	4.110
4.07	1138100	BB	0.143	0.313
4.99	1.4761E+07	BB	0.185	4.060
5.70	886800	BB	0.296	0.244
6.31	1766500	BB	0.175	0.486
6.71	234430	BB	0.121	0.065
7.02	2861200	BB	0.118	0.787
7.51	3465700	PB	0.115	0.953
8.12	244980	BB	0.165	0.067
8.69	304750	BB	0.124	0.084
9.11	238710	BB	0.249	0.066
9.41	1.3147E+08	†SPB	0.291	36.159
10.99	1575100	BB	0.135	0.433
11.87	232800	PB	0.152	0.064
12.14	2077700	BB	0.148	0.571
13.43	330610	BB	0.132	0.091
13.75	511790	BB	0.100	0.141
13.94	873380	BB	0.159	0.240
14.60	2174500	BB	0.125	0.598
14.83	991600	BB	0.117	0.273
15.24	6244100	BB	0.159	1.717
15.73	203060	BB	0.117	0.056
16.26	882630	BB	0.134	0.243
16.59	9550700	BB	0.175	2.627
17.24	4342400	BB	0.164	1.194
17.66	494610	BB	0.127	0.136
18.00	9484200	BB	0.204	2.609
18.51	837010	BB	0.127	0.230
18.97	4084900	BB	0.128	1.124
19.23	5884100	BB	0.340	1.618
20.21	5753400	BB	0.194	1.582
20.48	1321800	BB	0.116	0.364
20.71	976710	BB	0.126	0.269
21.08	177480	BB	0.126	0.049
21.44	728040	BB	0.144	0.200
21.78	1.1379E+07	BB	0.193	3.130
22.92	874500	BB	0.130	0.241
23.29	6.4039E+07	SPB	0.214	17.613
23.86	1724500	BB	0.129	0.474
24.14	1788700	BB	0.106	0.492
25.71	1529400	BB	0.185	0.421
26.45	836460	BB	0.659	0.230
27.06	4279300	BB	0.339	1.177
28.31	1625500	PB	0.420	0.447
29.64	837620	BB	0.270	0.230
32.16	167210	VB	0.296	0.046

TOTAL AREA= 3.6358E+08
MUL FACTOR= 1.0000E+00

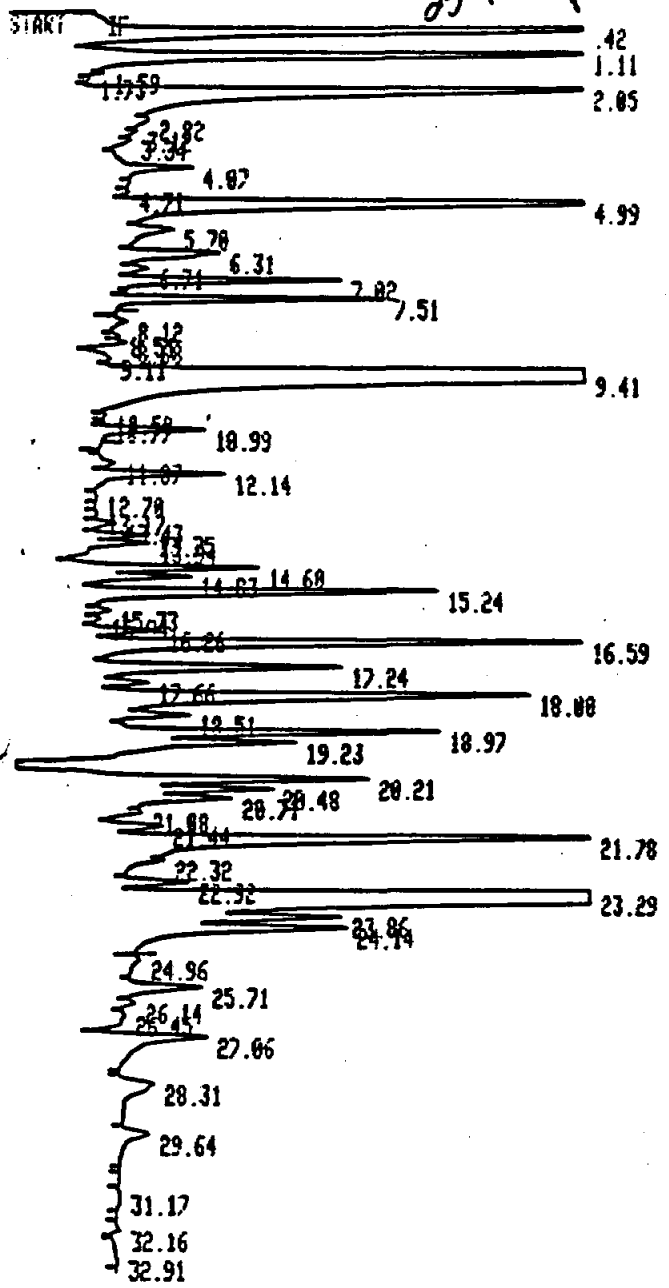
AR100430

AR100431

29.65	875100	PB	0.222	0.216
30.94	250670	BB	0.240	0.062
33.21	158140	I BP	0.189	0.039

TOTAL AREA= 4.0438E+08
MUL FACTOR= 1.0000E+00

25426 MSD2



RUN # 1183 JUN/26/98 17:54:02
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 15

AR100432

RUN # 1183 JUN/26/90 17:54:02
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 15

AREA%

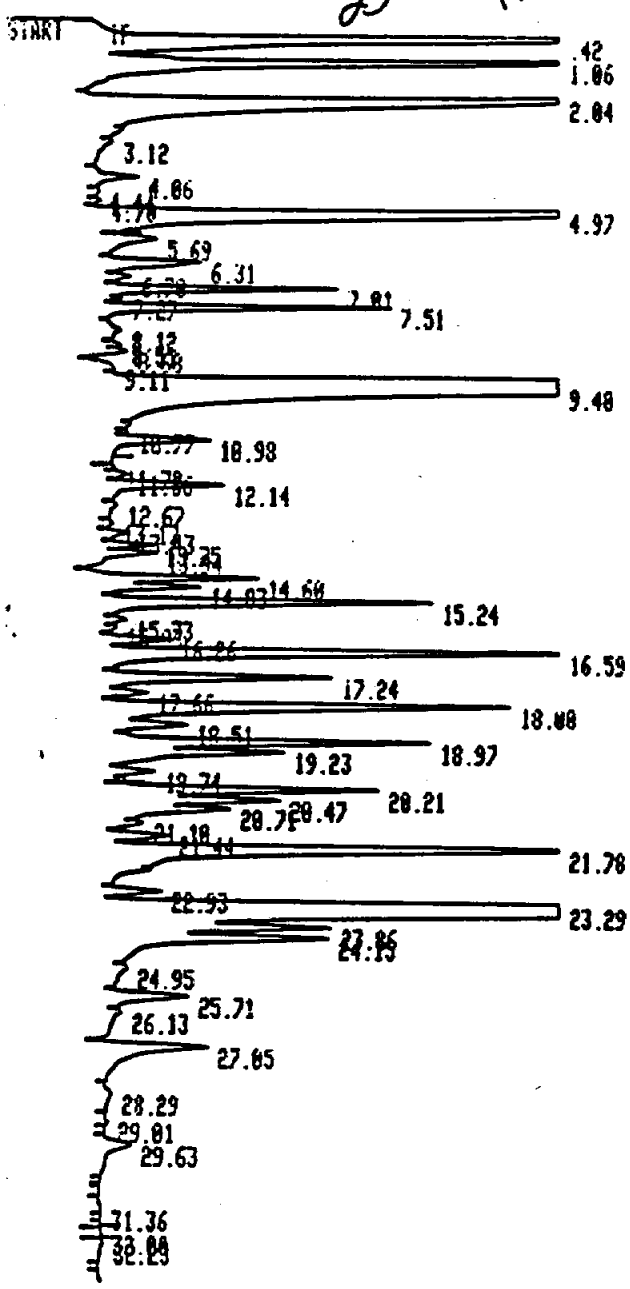
RT	AREA	TYPE	AR/HT	AREA%
0.42	3.0993E+07	SPB	0.096	8.524
1.11	1.1463E+07	BB	0.162	3.153
2.05	1.4944E+07	BB	0.232	4.110
4.07	1138100	BB	0.143	0.313
4.99	1.4761E+07	BB	0.185	4.060
5.70	886800	BB	0.206	0.244
6.31	1766500	BB	0.175	0.486
6.71	234430	BB	0.121	0.065
7.02	2861200	BB	0.118	0.787
7.51	3465700	PB	0.115	0.953
8.12	244980	BB	0.165	0.067
8.68	304750	BB	0.124	0.084
9.11	238710	BB	0.249	0.066
9.41	1.3147E+08	†SPB	0.291	36.159
10.99	1575100	BB	0.135	0.433
11.37	232800	PB	0.152	0.064
12.14	2077700	BB	0.148	0.571
13.43	330610	BB	0.132	0.091
13.75	511790	BB	0.100	0.141
13.94	873380	BB	0.159	0.240
14.60	2174500	BB	0.125	0.598
14.83	991600	BB	0.117	0.273
15.24	6244100	BB	0.159	1.717
15.73	203060	BB	0.117	0.056
16.26	882630	BB	0.134	0.243
16.59	9550700	BB	0.175	2.627
17.24	4342400	BB	0.164	1.194
17.66	494610	BB	0.127	0.136
18.00	9484200	BB	0.204	2.609
18.51	837010	BB	0.127	0.230
18.97	4084900	BB	0.128	1.124
19.23	5884100	BB	0.340	1.618
20.21	5753400	BB	0.194	1.582
20.48	1321800	BB	0.116	0.364
20.71	976710	BB	0.126	0.269
21.08	177480	BB	0.126	0.049
21.44	728040	BB	0.144	0.200
21.78	1.1379E+07	BB	0.193	3.130
22.92	874500	BB	0.130	0.241
23.29	6.4039E+07	SPB	0.214	17.613
23.86	1724500	BB	0.129	0.474
24.14	1788700	BB	0.106	0.492
25.71	1529400	BB	0.185	0.421
26.45	836460	BB	0.659	0.230
27.06	4279300	BB	0.339	1.177
28.31	1625500	PB	0.420	0.447
29.64	837620	BB	0.270	0.230
32.16	167210	VB	0.206	0.046

TOTAL AREA= 3.6358E+08
MUL FACTOR= 1.0000E+00

AR100433

MUL FACTOR= 1.0000E+00

25426 NSD3



RUN # 1184 JUN/26/90 18:38:35
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 16

AR100434

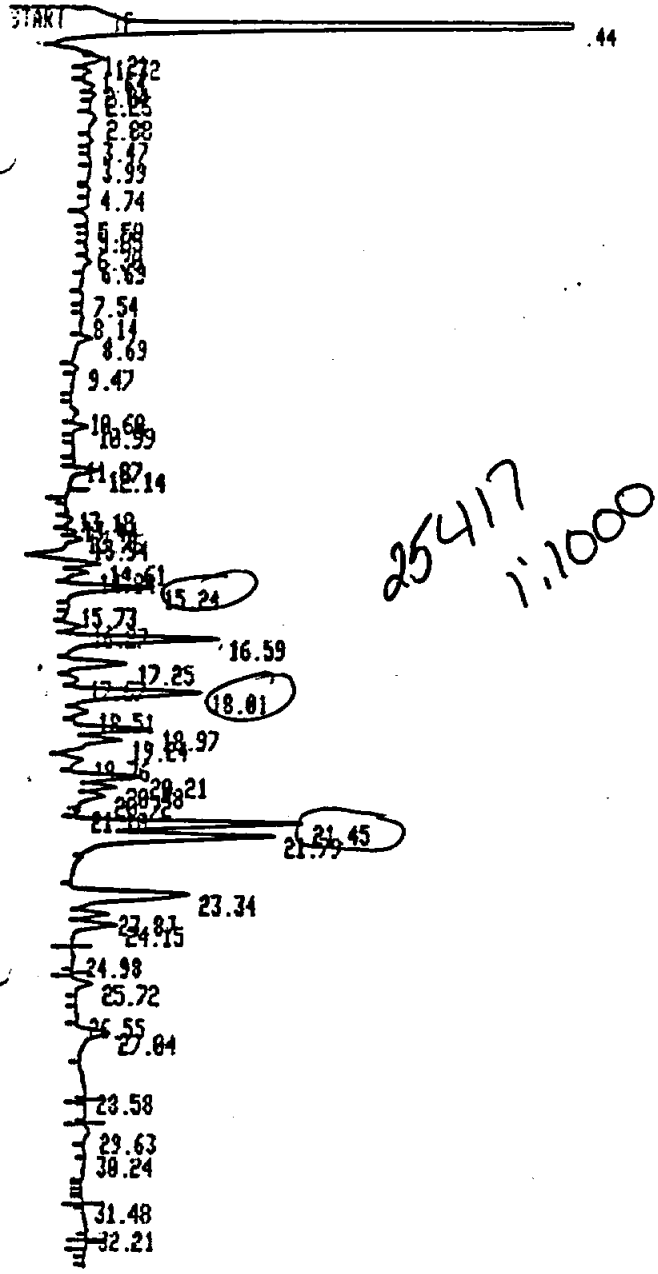
RUN # 1184 JUN/26/90 18:30:35
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 16

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.42	3.6073E+07	SBB	0.084	9.367
1.06	1.6224E+07	SPB	0.120	4.213
2.04	2.0012E+07	BB	0.230	5.196
4.06	764770	BB	0.158	0.199
4.97	2.2788E+07	BB	0.177	5.917
5.69	834080	BB	0.192	0.217
6.31	1850000	BB	0.181	0.480
6.70	209390	BB	0.117	0.054
7.01	3110000	BB	0.124	0.808
7.51	3820300	BB	0.121	0.992
8.12	199430	BB	0.163	0.052
8.68	308470	BB	0.126	0.080
9.11	231070	BB	0.316	0.060
9.40	1.4524E+08	†SPB	0.325	37.713
10.98	1332500	BB	0.133	0.346
12.14	1781800	BB	0.144	0.463
13.43	278990	BB	0.128	0.072
13.75	435290	BB	0.100	0.113
13.94	783070	BB	0.160	0.203
14.60	1895800	BB	0.124	0.492
14.83	918160	BB	0.120	0.238
15.24	5957800	BB	0.163	1.547
15.73	153840	BB	0.112	0.040
16.26	821350	BB	0.133	0.213
16.59	9188100	BB	0.178	2.386
17.24	4097400	BB	0.166	1.064
17.66	501950	BB	0.139	0.130
18.00	8871100	BB	0.200	2.304
18.51	852880	BB	0.139	0.222
18.97	4066200	BB	0.133	1.056
19.23	1804000	BB	0.137	0.468
19.74	430220	BB	0.116	0.112
20.21	3369700	PB	0.136	0.875
20.47	1273100	BB	0.119	0.331
20.71	846650	BB	0.125	0.220
21.10	196360	BB	0.119	0.051
21.44	799530	BB	0.149	0.208
21.78	1.1986E+07	BB	0.195	3.112
22.93	706450	PB	0.131	0.183
23.29	5.9416E+07	SPB	0.235	15.428
23.86	1723300	BB	0.129	0.448
24.15	1787300	BB	0.109	0.464
25.71	1486700	BB	0.179	0.386
26.13	545090	BB	0.766	0.142
27.05	3940200	BB	0.311	1.023
28.29	193630	BB	0.295	0.050
29.63	1012200	PB	0.315	0.263

TOTAL AREA= 3.8511E+08
MUL FACTOR= 1.0000E+00

AR100435



25417
1:1000

RUN # 1185 JUN/26/90 19:07:08
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 17

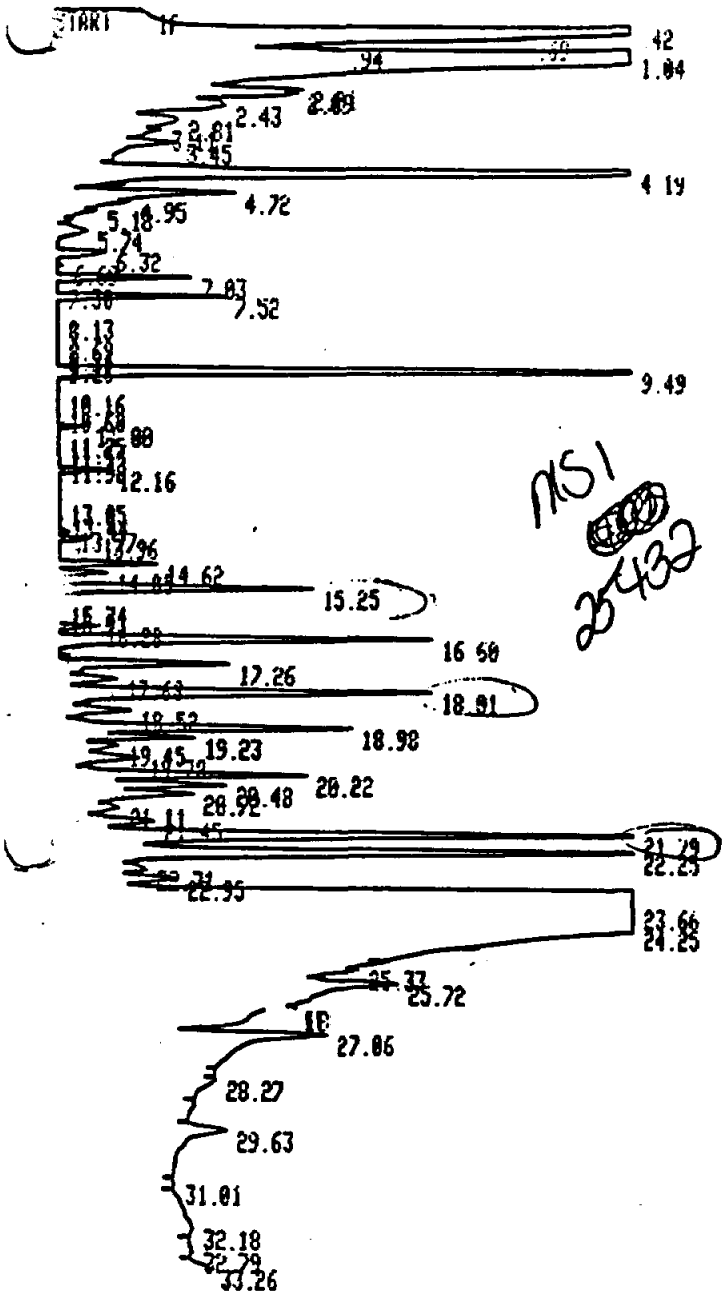
RUN # 1185 JUN/26/90 19:07:08
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 17

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.44	3.6192E+07	SBB	0.130	56.000
1.32	231010	BB	0.142	0.358
2.88	213340	PB	0.266	0.330
5.59	155830	PB	0.295	0.241
8.69	228640	BB	0.150	0.354
10.99	217770	BB	0.125	0.337
12.14	427290	BB	0.139	0.661
13.94	768200	BB	0.374	1.189
14.61	763900	BB	0.166	1.182
14.84	234490	BB	0.119	0.363
15.24	1611000	BB	0.164	2.493
16.27	229830	PB	0.131	0.356
16.59	3067400	BB	0.178	4.746
17.25	1103500	BB	0.164	1.708
18.01	2882600	BB	0.199	4.460
18.51	222940	BB	0.143	0.345
18.97	1016700	BB	0.131	1.573
19.24	881320	BB	0.194	1.364
19.76	415840	BB	0.191	0.643
20.21	892770	BB	0.136	1.381
20.48	350620	BB	0.119	0.543
20.72	268130	BB	0.133	0.415
21.45	3682000	BB	0.160	5.697
21.79	3013900	BB	0.169	4.664
23.34	3128400	PB	0.245	4.841
23.87	412690	BB	0.130	0.639
24.15	617030	BB	0.145	0.955
25.72	376480	PB	0.184	0.583
27.04	1022600	BB	0.288	1.582

TOTAL AREA= 6.4628E+07
MUL FACTOR= 1.0000E+00

TOTAL AREA= 6.4628E+07
MUL FACTOR= 1.0000E+00



NS1
25432

RUN # 1186 JUN/26/90 19:43:42
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 18

AR100438

SAMPLE # 18

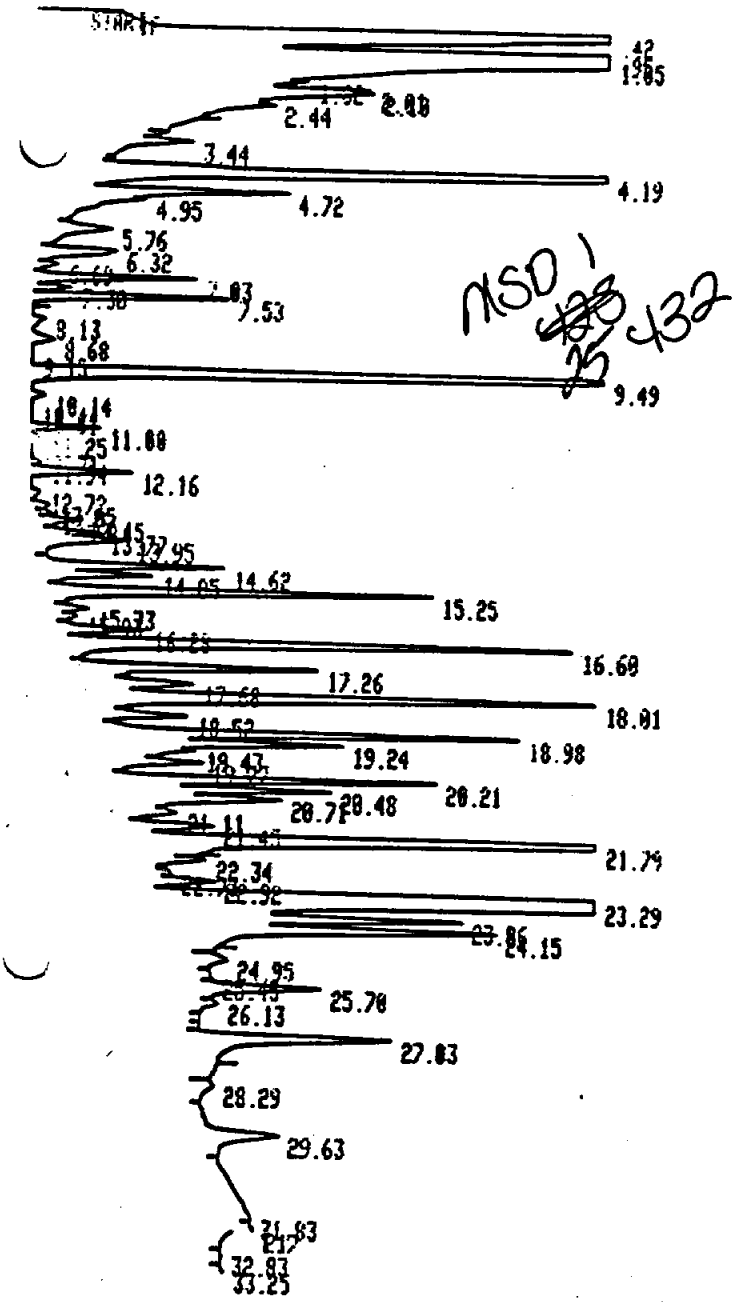
AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.42	3.0344E+07	SPB	0.088	6.360
0.69	349120	D BB	0.156	0.073
1.04	1.2381E+08	↑SPB	0.288	25.951
2.01	155150	BB	0.045	0.033
2.09	383560	BB	0.145	0.080
2.43	1245380	BB	0.254	0.261
2.81	663750	BB	0.213	0.139
3.45	539410	BB	0.111	0.113
4.19	2.1220E+07	BB	0.143	4.448
4.72	1869380	PB	0.131	0.392
5.74	688800	PB	0.241	0.144
6.32	1004200	BB	0.171	0.211
6.69	157930	VB	0.111	0.033
7.03	2095400	BB	0.123	0.439
7.52	2601000	BB	0.121	0.545
8.13	197240	BB	0.169	0.041
8.69	621250	BB	0.168	0.130
9.49	1.4443E+07	BB	0.136	3.027
10.16	229730	BB	0.146	0.048
11.00	977010	BB	0.129	0.205
12.16	1395500	BB	0.142	0.293
13.05	256720	BB	0.375	0.054
13.44	322540	PB	0.120	0.068
13.77	235490	BB	0.090	0.049
13.96	553650	BB	0.110	0.116
14.62	1471300	BB	0.117	0.308
14.85	739110	BB	0.113	0.155
15.25	4707600	BB	0.151	0.987
15.74	183610	BB	0.115	0.039
16.28	721570	BB	0.126	0.151
16.60	7145000	BB	0.163	1.498
17.26	2805700	PB	0.150	0.588
17.68	590990	BB	0.144	0.124
18.01	7126100	BB	0.179	1.494
18.52	792040	BB	0.138	0.166
18.98	3774100	BB	0.134	0.791
19.23	1055600	BB	0.109	0.221
19.45	268870	BB	0.117	0.056
19.78	725050	BB	0.142	0.152
20.22	2908200	BB	0.131	0.610
20.48	1263400	BB	0.118	0.265
20.72	1042200	BB	0.140	0.218
21.11	222660	BB	0.135	0.047
21.45	774500	BB	0.152	0.162
21.79	9570900	BB	0.167	2.006
22.25	1.0159E+07	BB	0.166	2.129
22.71	187370	BB	0.129	0.039
22.95	600510	BB	0.130	0.126
23.66	2.0107E+08	↑SPB	0.489	42.144
25.72	2134800	BB	0.215	0.448
26.38	1463000	BB	0.830	0.307
27.06	5048500	BB	0.332	1.058
28.27	173290	VB	0.188	0.036
29.63	1108900	PB	0.239	0.232
32.18	534510	BB	0.718	0.112
33.26	378670	I BH	0.170	0.078

TOTAL AREA= 4.7710E+08
MUL FACTOR= 1.0000E+00

AR10043

AR100439



RUN # 1187
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 19

JUN/26/90 20:20:23

AR100440

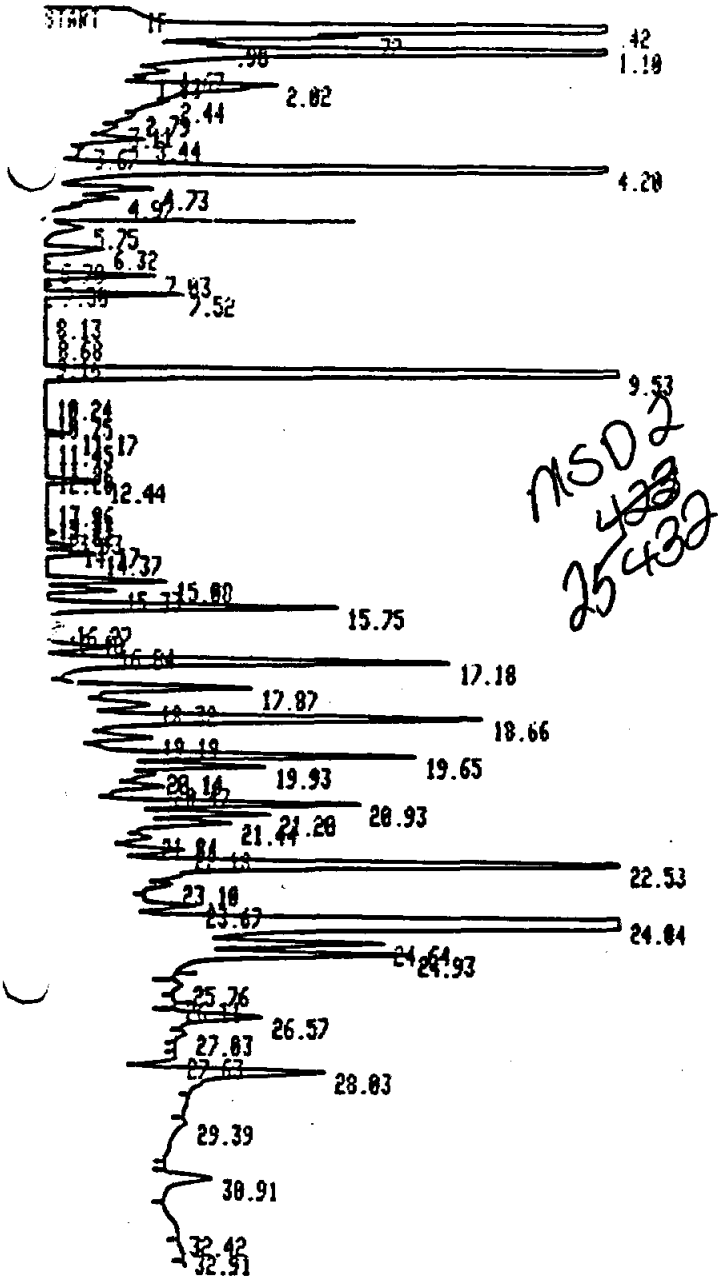
RUN # 1187 JUN/26/90 20:20:23
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 19

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.42	4.5768E+07	SBB	0.117	13.774
0.95	715860	BB	0.037	0.215
1.05	7.4443E+07	†SPB	0.191	22.404
2.01	231360	BB	0.054	0.070
2.10	378060	BB	0.111	0.114
3.44	549050	PB	0.103	0.165
4.19	2.9016E+07	SPB	0.138	8.733
4.72	2474500	BB	0.128	0.745
5.76	1211380	BB	0.209	0.365
6.32	1487700	BB	0.193	0.448
6.69	172960	BB	0.121	0.052
7.03	2129400	BB	0.122	0.641
7.30	300690	BB	0.097	0.091
7.53	2503500	BB	0.115	0.754
8.13	429920	PB	0.207	0.129
8.68	760250	BB	0.245	0.229
9.49	2.2296E+07	BB	0.139	6.710
10.14	334490	PB	0.175	0.101
11.00	1092300	PB	0.122	0.329
11.25	189470	BB	0.117	0.057
12.16	1564100	BB	0.137	0.471
[illegible].72	162380	BB	0.150	0.049
13.45	371020	BB	0.119	0.112
13.77	271060	BB	0.084	0.082
13.95	616700	BB	0.101	0.186
14.62	1972000	BB	0.114	0.594
14.85	982630	BB	0.113	0.296
15.25	6435400	BB	0.151	1.937
15.73	258050	BB	0.114	0.078
16.28	1056700	BB	0.132	0.318
16.60	9480400	BB	0.167	2.853
17.26	3667000	BB	0.148	1.104
17.68	978750	BB	0.143	0.295
18.01	9372600	BB	0.177	2.821
18.52	1066100	BB	0.137	0.321
18.98	5287000	BB	0.132	1.591
19.24	1967200	BB	0.117	0.592
19.77	845590	BB	0.131	0.255
20.21	4124300	BB	0.131	1.241
20.48	1811200	BB	0.119	0.545
20.71	1311100	BB	0.131	0.395
21.11	375640	BB	0.142	0.113
21.45	1009200	BB	0.143	0.304
21.79	1.6356E+07	BB	0.174	4.922
22.34	218990	BB	0.100	0.066
22.92	661790	BB	0.126	0.199
23.29	5.7555E+07	SPB	0.205	17.322
23.86	2819300	BB	0.129	0.849
24.15	3615500	BB	0.138	1.088
24.95	343020	BB	0.192	0.103
25.70	2059300	BB	0.166	0.620
26.13	158930	BB	0.139	0.048
27.03	4880600	PB	0.226	1.469
29.63	1887600	BB	0.249	0.568
32.17	247460	BB	0.286	0.075

TOTAL AREA= 3.3227E+08
MUL FACTOR= 1.0000E+00

AR100441



MSD 2
25432

RUN # 1188 JUN/26/90 20:57:04
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 20

AR100442

RUN # 1188 JUN/26/99 20:57:04
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 20

AREA%

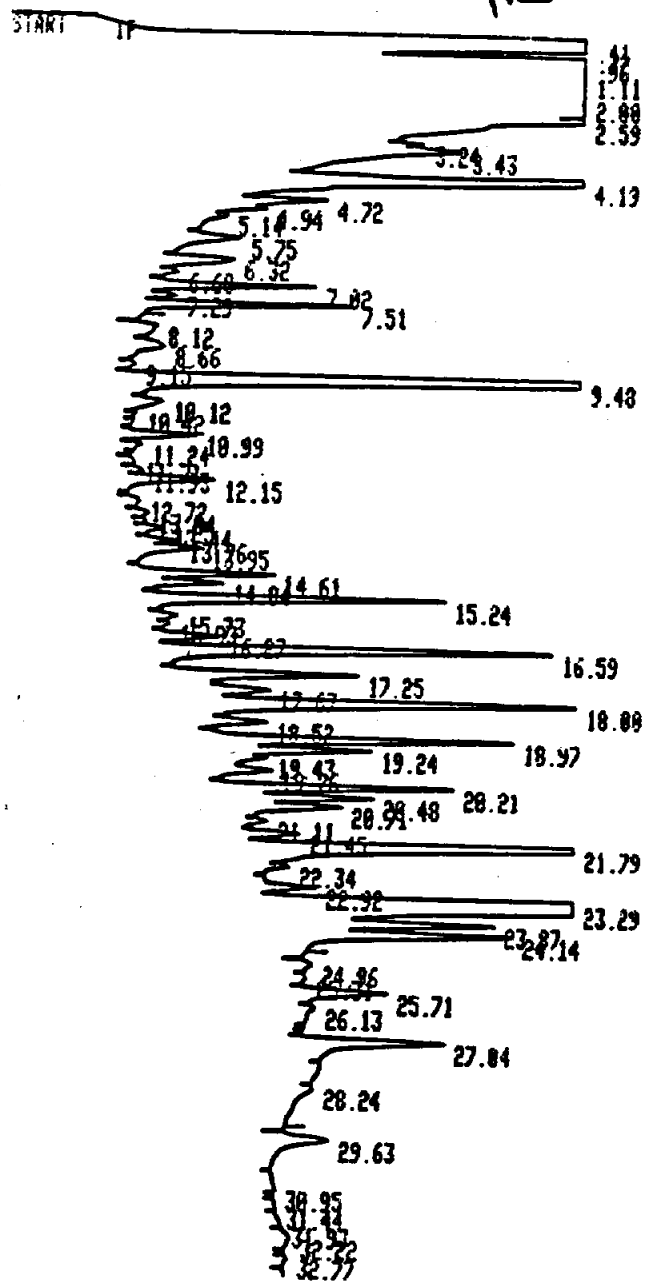
RT	AREA	TYPE	AR/HT	AREA%
0.42	3.5708E+07	SPB	0.116	14.480
0.72	406860	BB	0.061	0.165
1.10	1.6475E+07	SPB	0.141	6.681
1.67	246620	BB	0.098	0.100
2.02	488260	BB	0.062	0.198
3.44	738390	BB	0.124	0.299
4.20	2.6299E+07	SPB	0.135	10.665
4.73	1061700	BB	0.123	0.431
4.97	319680	BB	0.093	0.130
5.75	808560	PB	0.219	0.328
6.32	1216000	BB	0.175	0.493
7.03	1601400	BB	0.120	0.649
7.52	1893300	BB	0.115	0.768
8.13	254830	PB	0.181	0.103
8.68	614860	BB	0.246	0.249
9.53	3.2800E+07	SPB	0.152	13.301
10.24	205270	BB	0.280	0.083
11.17	931330	BB	0.132	0.378
11.45	187400	BB	0.131	0.076
12.44	1333000	BB	0.147	0.541
13.83	302580	BB	0.131	0.123
14.17	245840	BB	0.093	0.100
14.37	590680	BB	0.119	0.240
15.08	1600400	BB	0.120	0.649
15.33	849620	BB	0.119	0.345
15.75	5355500	BB	0.159	2.172
16.27	200690	BB	0.119	0.081
16.84	831120	BB	0.134	0.337
17.18	7846000	BB	0.176	3.182
17.87	3039400	BB	0.153	1.233
18.32	808770	BB	0.152	0.328
18.66	7837600	BB	0.182	3.178
19.19	832660	BB	0.136	0.338
19.65	4387400	BB	0.134	1.779
19.93	1594500	BB	0.117	0.647
20.14	214940	BB	0.121	0.087
20.47	536770	BB	0.118	0.218
20.93	3389100	BB	0.131	1.374
21.20	1502300	BB	0.120	0.609
21.44	1127500	BB	0.133	0.457
21.84	276020	BB	0.134	0.112
22.18	871080	BB	0.145	0.353
22.53	1.3104E+07	BB	0.185	5.314
23.10	162890	BB	0.090	0.066
23.67	682490	BB	0.125	0.277
24.04	4.9694E+07	SPB	0.188	20.152
24.64	2364400	BB	0.130	0.959
24.93	3055700	BB	0.139	1.239
25.76	175780	BB	0.173	0.071
26.57	1748700	PB	0.131	0.709
27.63	799040	VB	0.271	0.324
28.03	5218800	BB	0.261	2.116
29.39	189360	VB	0.219	0.077
30.91	1377600	PB	0.253	0.559
32.42	197210	BB	0.620	0.080

TOTAL AREA= 2.4660E+08
MUL FACTOR= 1.0000E+00

25.132

MSKS

25432



RUN # 1189 JUN/26/90 21:34:14
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 21

AR100444

RUN # 1189 JUN/26/90 21:34:14
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 21

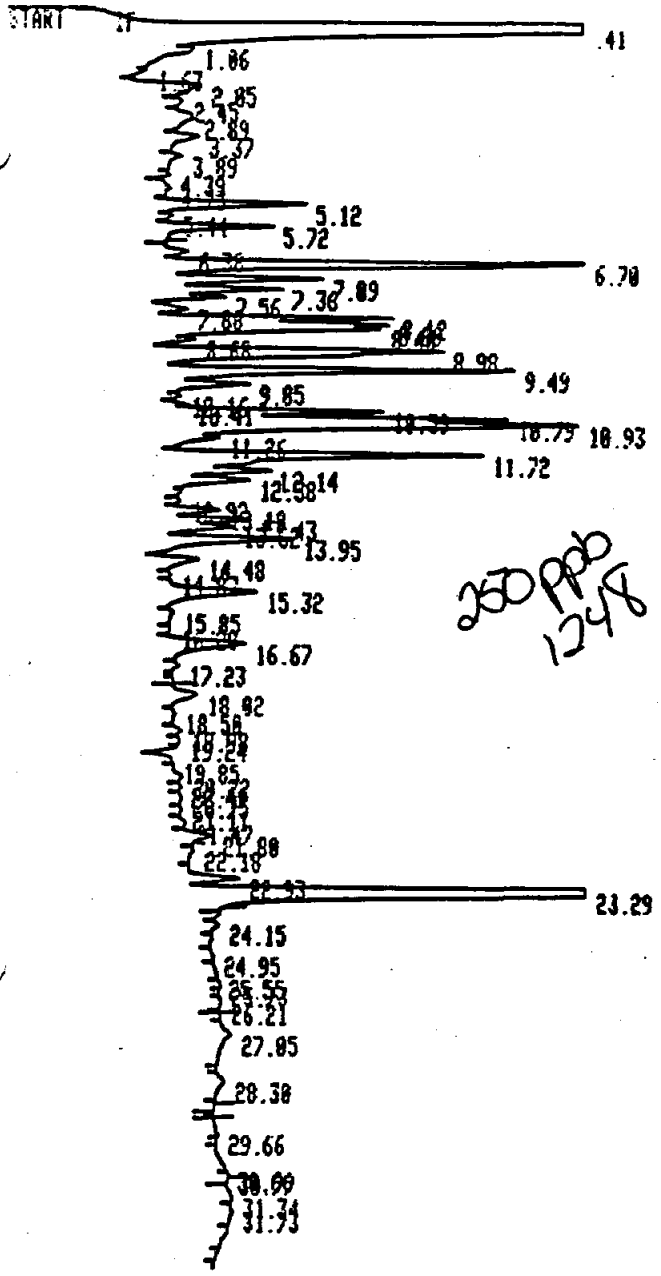
AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.41	5.2753E+07	†SBB	0.129	14.312
0.72	690880	BB	0.059	0.187
0.96	1764400	SPB	0.026	0.479
1.11	1.3429E+08	†SPB	0.528	36.434
2.00	1513700	BB	0.125	0.411
2.59	1277300	BB	0.061	0.347
3.43	1108200	BB	0.143	0.301
4.19	1.9270E+07	BB	0.136	5.228
4.72	980320	PB	0.118	0.266
5.75	1071700	BB	0.187	0.291
6.68	165870	PB	0.126	0.045
7.02	2148800	BB	0.123	0.583
7.29	194100	BB	0.094	0.053
7.51	2616800	BB	0.116	0.710
8.12	458990	PB	0.228	0.125
8.66	731580	BB	0.249	0.199
9.48	2.7228E+07	SPB	0.148	7.387
10.12	501750	BB	0.185	0.136
10.99	913830	PB	0.125	0.248
12.15	1287600	BB	0.145	0.349
13.44	260960	BB	0.123	0.071
13.76	208850	BB	0.088	0.057
13.95	593900	BB	0.123	0.161
14.61	1481800	BB	0.116	0.402
14.84	757000	BB	0.117	0.205
15.24	5105500	BB	0.155	1.385
15.73	187470	BB	0.117	0.051
16.27	782020	BB	0.133	0.212
16.59	7556600	BB	0.174	2.050
17.25	2551400	BB	0.141	0.692
17.67	717430	PB	0.146	0.195
18.00	7893100	BB	0.188	2.141
18.52	761340	BB	0.137	0.207
18.97	4021100	BB	0.133	1.091
19.24	1374200	BB	0.115	0.373
19.76	609780	BB	0.137	0.165
20.21	3084700	BB	0.133	0.837
20.48	1244500	BB	0.117	0.338
20.71	977820	BB	0.134	0.265
21.11	220390	BB	0.123	0.060
21.45	777590	BB	0.147	0.211
21.79	1.2827E+07	BB	0.187	3.480
22.92	651790	BB	0.126	0.177
23.29	5.1682E+07	SPB	0.203	14.021
23.87	1987900	BB	0.130	0.539
24.14	2612200	BB	0.137	0.709
24.96	154460	BB	0.166	0.042
25.71	1585500	BB	0.170	0.430
27.04	3424200	PB	0.215	0.929
29.63	1299500	BB	0.244	0.353
32.22	234570	BB	0.291	0.064

TOTAL AREA= 3.6859E+08
MUL FACTOR= 1.0000E+00

AR1004

AR100445



RUN # 1190 JUN/26/90 22:11:29
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 22

AR100446

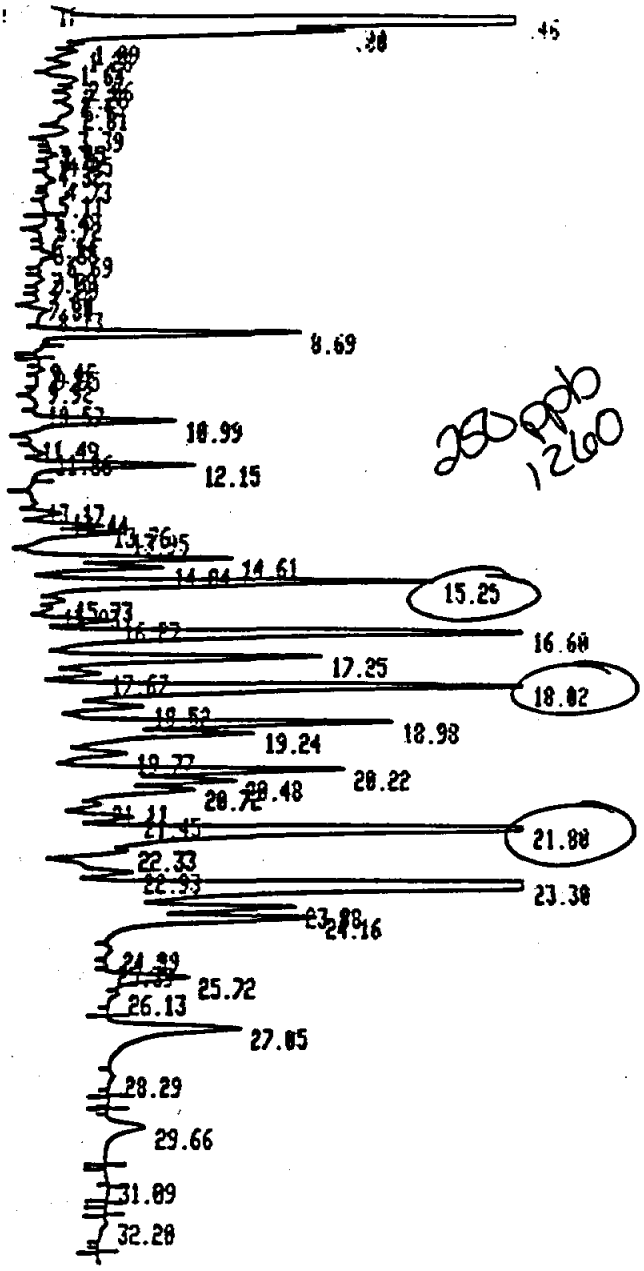
RUN # 1190 JUN/26/90 22:11:29
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 22

AREA% RT	AREA	TYPE	AR/HT	AREA%
0.41	8.1096E+07	↑SBB	0.185	48.356
1.06	159980	BB	0.125	0.095
2.05	609670	BB	0.141	0.364
2.45	161630	PB	0.149	0.096
2.89	644060	BB	0.312	0.384
3.37	497240	BB	0.177	0.297
3.89	188660	BB	0.140	0.113
4.73	306150	BB	0.266	0.183
5.12	2306200	BB	0.145	1.375
5.72	1562700	BB	0.128	0.932
6.38	226790	PB	0.115	0.135
6.70	8176100	BB	0.143	4.875
7.09	1861800	BB	0.123	1.110
7.36	1025100	BB	0.105	0.611
7.56	444540	BB	0.098	0.265
7.88	309410	BB	0.123	0.185
8.12	1528600	BB	0.090	0.912
8.29	436630	BB	0.070	0.260
8.40	299610	BB	0.051	0.179
8.68	197140	BB	0.104	0.118
8.98	1561200	BB	0.087	0.931
9.49	5438400	PB	0.144	3.243
9.85	836000	BB	0.122	0.499
10.59	1650400	BB	0.099	0.984
10.79	1163100	BB	0.078	0.694
10.93	2301100	BB	0.105	1.372
11.72	5496100	BB	0.164	3.277
12.14	702260	BB	0.110	0.419
12.38	717840	BB	0.118	0.428
13.18	505740	BB	0.118	0.302
13.43	599560	BB	0.105	0.358
13.62	441580	BB	0.119	0.263
13.95	2481100	BB	0.179	1.480
14.48	814000	BB	0.184	0.485
15.32	2192400	BB	0.217	1.307
16.67	2045700	BB	0.236	1.220
18.02	635820	BB	0.233	0.379
19.85	178100	PB	1.242	0.106
21.80	534940	BB	0.187	0.319
22.93	570170	BB	0.118	0.340
23.29	3.3831E+07	BB	0.157	20.173
27.05	613380	VB	0.434	0.366
28.30	358970	VB	0.342	0.214

TOTAL AREA= 1.6771E+08
NUL FACTOR= 1.0000E+00

AR100447

AR100447



RUN # 1191 JUN/26/90 22:48:43
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 23

AR100448

RUN # 1191 JUN/26/90 22:48:43
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 23

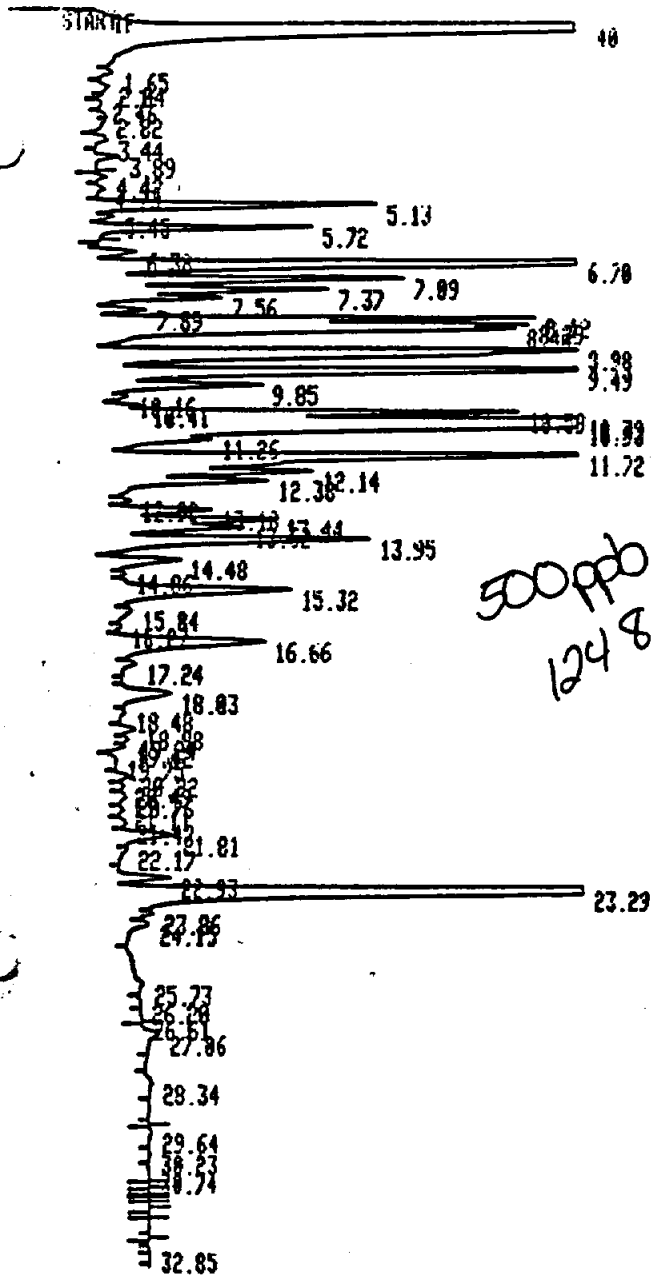
AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.46	3.5579E+07	SPB	0.130	20.332
1.28	167600	BB	0.111	0.096
1.64	269530	BB	0.134	0.154
2.06	286910	BB	0.145	0.164
2.81	516940	BB	0.383	0.295
3.39	516820	BB	0.219	0.295
4.73	178150	BB	0.159	0.102
5.72	215390	BB	0.348	0.123
6.69	336760	BB	0.181	0.193
7.84	165670	BB	0.169	0.095
9.13	457370	BB	0.217	0.261
9.69	3999000	BB	0.135	2.285
10.57	156120	PB	0.248	0.089
10.99	2824200	BB	0.170	1.614
11.86	180320	BB	0.135	0.103
12.15	2714500	BB	0.150	1.551
13.17	162650	BB	0.227	0.093
13.44	465770	BB	0.141	0.266
13.76	492330	BB	0.096	0.281
13.95	895750	BB	0.132	0.512
14.61	2170000	BB	0.118	1.240
14.84	1124600	BB	0.120	0.643
15.25	7618700	BB	0.173	4.354
15.73	180570	BB	0.113	0.103
16.27	951220	BB	0.138	0.544
16.60	1.2008E+07	BB	0.195	6.862
17.25	5061700	BB	0.173	2.893
17.62	584180	BB	0.138	0.334
18.02	1.1067E+07	BB	0.211	6.324
18.52	918780	BB	0.140	0.525
18.98	4153300	BB	0.135	2.374
19.24	1853100	BB	0.139	1.059
19.77	870580	BB	0.153	0.498
20.22	3648500	BB	0.140	2.085
20.48	1167300	BB	0.118	0.667
20.72	989950	BB	0.137	0.566
21.11	209130	BB	0.124	0.120
21.45	848360	BB	0.154	0.485
21.88	1.5046E+07	BB	0.213	8.598
22.33	412000	BB	0.186	0.236
22.93	1205000	BB	0.205	0.689
23.30	4.0556E+07	SPB	0.172	23.177
23.83	1952000	BB	0.134	1.116
24.16	2200500	BB	0.128	1.258
25.72	1691400	BB	0.194	0.967
27.05	4620000	BB	0.312	2.640
29.66	1299100	VB	0.300	0.742

TOTAL AREA= 1.7499E+08
MUL FACTOR= 1.0000E+00

AR100449

AR100440



RUN # 1192 JUN/26/90 23:25:57
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 24

AR100450

RUN # 1192 JUN/26/90 23:25:57
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 24

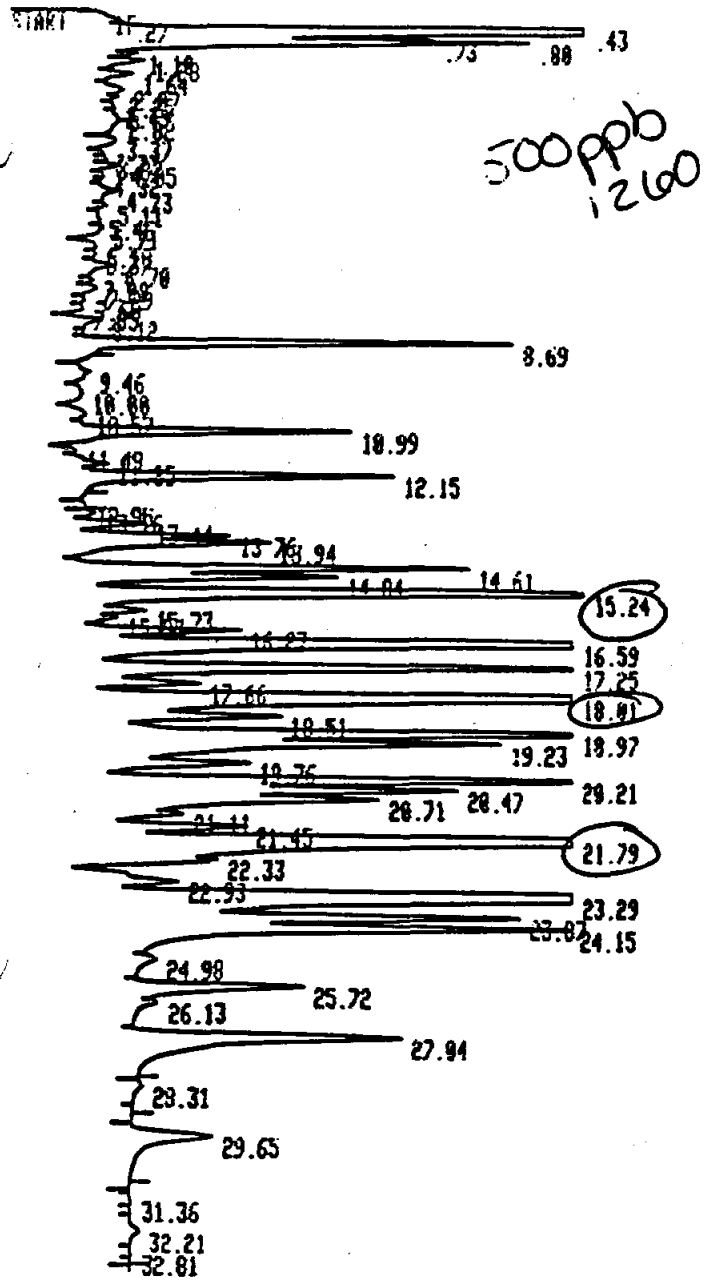
AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.40	8.6963E+07	†SBB	0.195	38.356
1.65	180460	BB	0.176	0.080
2.04	160900	BB	0.172	0.071
3.44	336090	PB	0.204	0.148
3.89	352020	BB	0.131	0.155
5.13	4543200	BB	0.146	2.004
5.72	3026900	BB	0.126	1.335
6.38	478000	PB	0.126	0.211
6.70	1.5166E+07	BB	0.144	6.689
7.09	3640200	BB	0.125	1.606
7.37	1997100	BB	0.106	0.881
7.56	714770	BB	0.089	0.315
7.89	411950	BB	0.101	0.182
8.12	2916500	BB	0.090	1.286
8.29	813010	BB	0.071	0.359
8.98	1.2487E+07	BB	0.209	5.508
9.49	1.0431E+07	BB	0.144	4.601
9.85	1758900	BB	0.127	0.776
10.59	3123600	BB	0.100	1.378
10.79	2098600	BB	0.081	0.926
10.93	4326600	BB	0.108	1.908
11.72	1.0492E+07	BB	0.167	4.628
12.14	1355700	BB	0.109	0.598
12.38	1202900	BB	0.104	0.531
12.92	150100	BB	0.106	0.066
13.18	1007700	BB	0.119	0.445
13.44	1166100	BB	0.107	0.514
13.62	800660	BB	0.114	0.353
13.95	4818800	BB	0.179	2.125
14.48	1440000	BB	0.182	0.635
15.32	4124200	BB	0.216	1.819
15.84	206160	BB	0.211	0.091
16.66	4035000	BB	0.246	1.780
17.24	162920	BB	0.136	0.072
18.03	1247900	VB	0.229	0.550
18.98	222490	BB	0.139	0.098
19.75	191040	BB	0.235	0.084
20.22	208950	BB	0.141	0.092
21.81	1048500	BB	0.193	0.463
22.93	593340	BB	0.120	0.262
23.29	3.5409E+07	SPB	0.161	15.618
25.73	311930	BB	0.345	0.138
27.06	443760	PB	0.264	0.196
28.34	159360	PB	0.282	0.070

TOTAL AREA= 2.2672E+08
MUL FACTOR= 1.0000E+00

AR100450

AR100451



RUN # 1193 JUN/27/98 08:02:49
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 25

AR100452

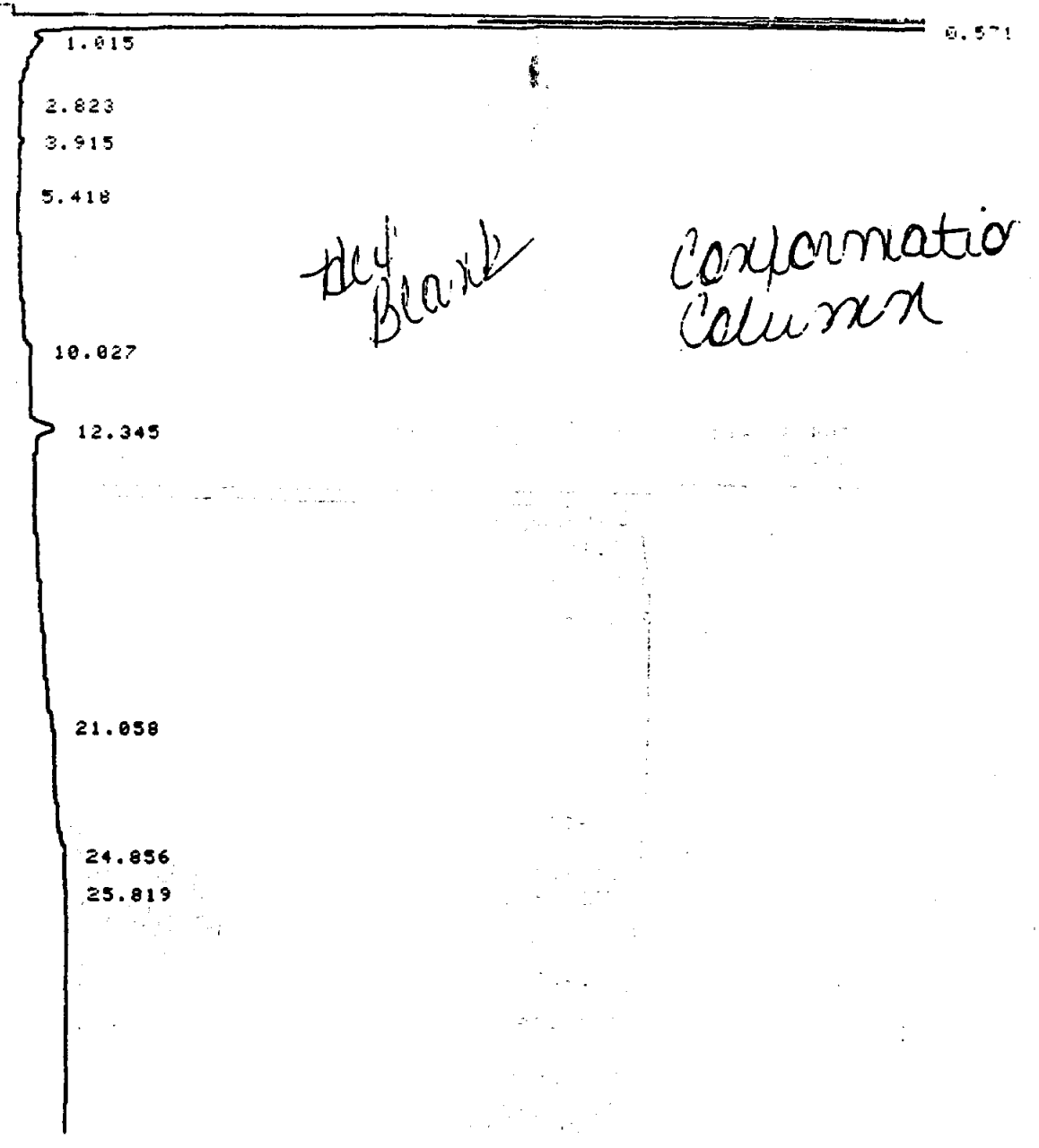
RUN # 1193 JUN/27/90 00:02:49
WORKFILE ID: C1
WORKFILE NAME:
SAMPLE # 25

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.43	3.6796E+07	SPB	0.130	13.269
0.73	257110	BB	0.039	0.093
0.80	916780	BB	0.050	0.331
1.28	368110	BB	0.119	0.133
1.64	379270	BB	0.133	0.137
2.07	199490	BB	0.147	0.072
3.37	342490	BB	0.229	0.124
4.05	209080	BB	0.103	0.075
4.73	265520	PB	0.156	0.096
5.71	440080	BB	0.303	0.159
6.18	207000	BB	0.225	0.075
6.70	448910	BB	0.167	0.162
7.29	232020	BB	0.159	0.084
7.85	211410	BB	0.153	0.076
8.12	532550	BB	0.151	0.192
8.69	6999700	PB	0.143	2.524
9.46	394310	PB	0.263	0.142
10.00	477900	BB	0.376	0.172
10.57	291580	BB	0.239	0.105
10.99	5370500	BB	0.168	1.937
11.85	252970	BB	0.103	0.091
12.15	5335400	BB	0.154	1.924
13.44	929370	BB	0.138	0.335
13.76	964120	BB	0.095	0.348
13.94	1461000	BB	0.109	0.527
14.61	4186300	BB	0.117	1.510
14.84	2291200	BB	0.122	0.826
15.24	1.4579E+07	BB	0.173	5.258
15.73	400180	BB	0.111	0.144
16.27	1966900	BB	0.136	0.709
16.59	2.2708E+07	BB	0.191	8.189
17.25	1.0006E+07	BB	0.173	3.608
17.66	1243100	BB	0.137	0.448
18.01	2.1824E+07	BB	0.210	7.870
18.51	1888700	BB	0.140	0.681
18.97	8332100	BB	0.135	3.005
19.23	3683300	BB	0.136	1.328
19.76	1762000	BB	0.150	0.635
20.21	7468400	BB	0.141	2.693
20.47	2459300	BB	0.118	0.887
20.71	2157100	BB	0.139	0.778
21.11	411260	BB	0.123	0.148
21.45	1767700	BB	0.152	0.638
21.79	2.9562E+07	BB	0.212	10.660
22.33	770680	BB	0.168	0.278
22.93	1684500	BB	0.243	0.608
23.29	4.6942E+07	SPB	0.179	16.928
23.87	4106600	BB	0.136	1.481
24.15	4591600	BB	0.127	1.656
24.98	335460	BB	0.210	0.121
25.72	3442200	BB	0.188	1.241
27.04	9112800	BB	0.299	3.286
29.65	3056600	BB	0.334	1.102
32.21	281700	PB	0.277	0.102

TOTAL AREA= 2.7730E+08
NUL FACTOR= 1.0000E+00

RUN # 1019 JUN 20, 1990 12:07:30
START



STOP

RUN# 1019 JUN 20, 1990 12:07:30

SAMPLE# 1

AREA%

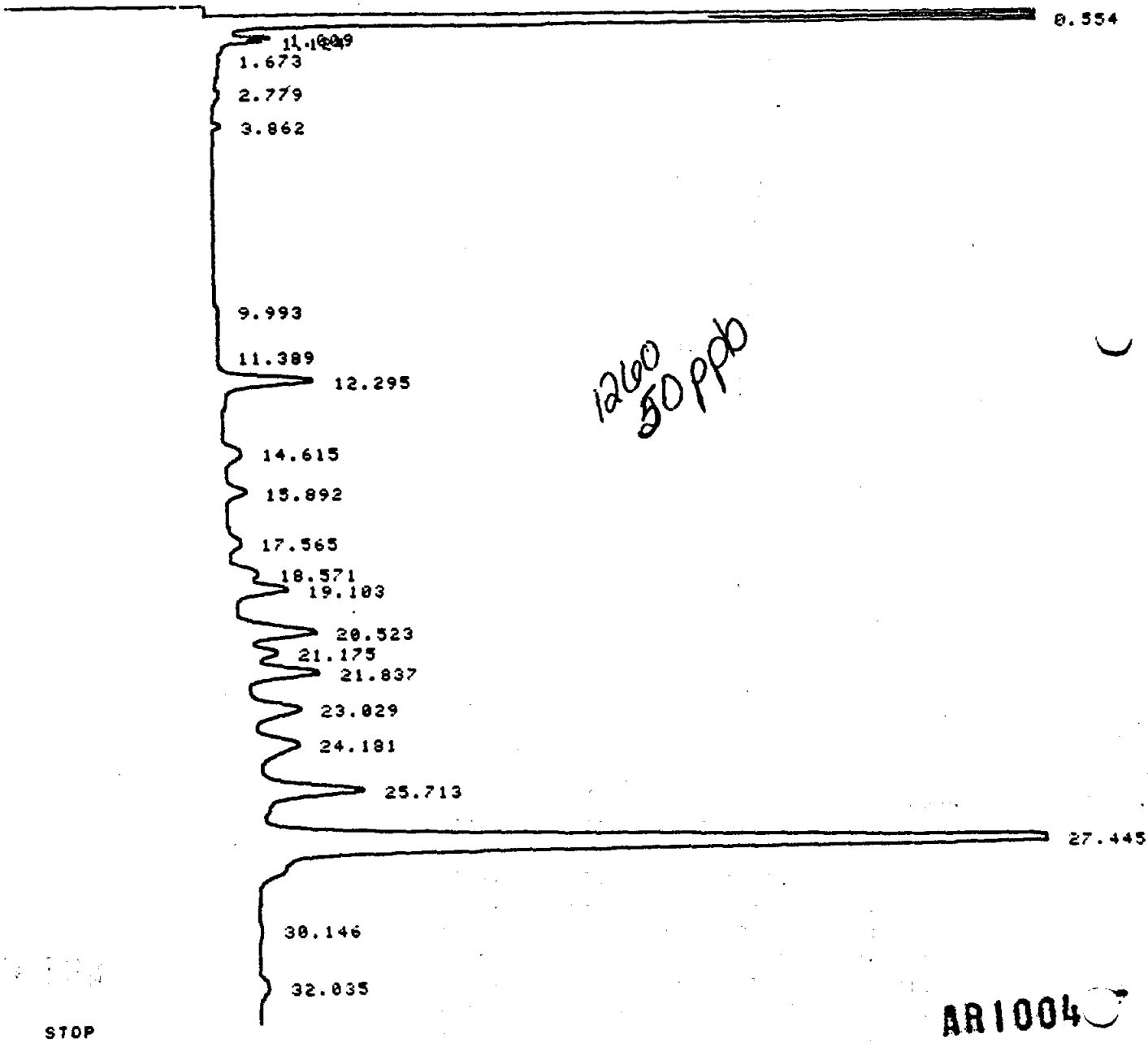
RT	AREA	TYPE	WIDTH	AREA%
.571	526081	BP	.088	25.32310
1.015	20894	PB	.253	1.00574
2.823	5652	PP	.144	.27206
3.915	9951	PP	.191	.47899
12.345	58616	PB	.341	2.82150
21.058	499521	BV	3.112	24.04462
24.856	581056	VV	2.335	27.96933
25.819	375704	VV	1.447	18.08465

TOTAL AREA=2077475
MUL FACTOR=1.0000E+00

AR100454

RUN # 1020 JUN 20, 1990 12:44:18

START



STOP

AR100455

RUN# 1020 JUN 20, 1990 12:44:18

AR100455

SAMPLE# 2

STOP

RUN# 1020 JUN 20, 1990 12:44:18

SAMPLE# 2

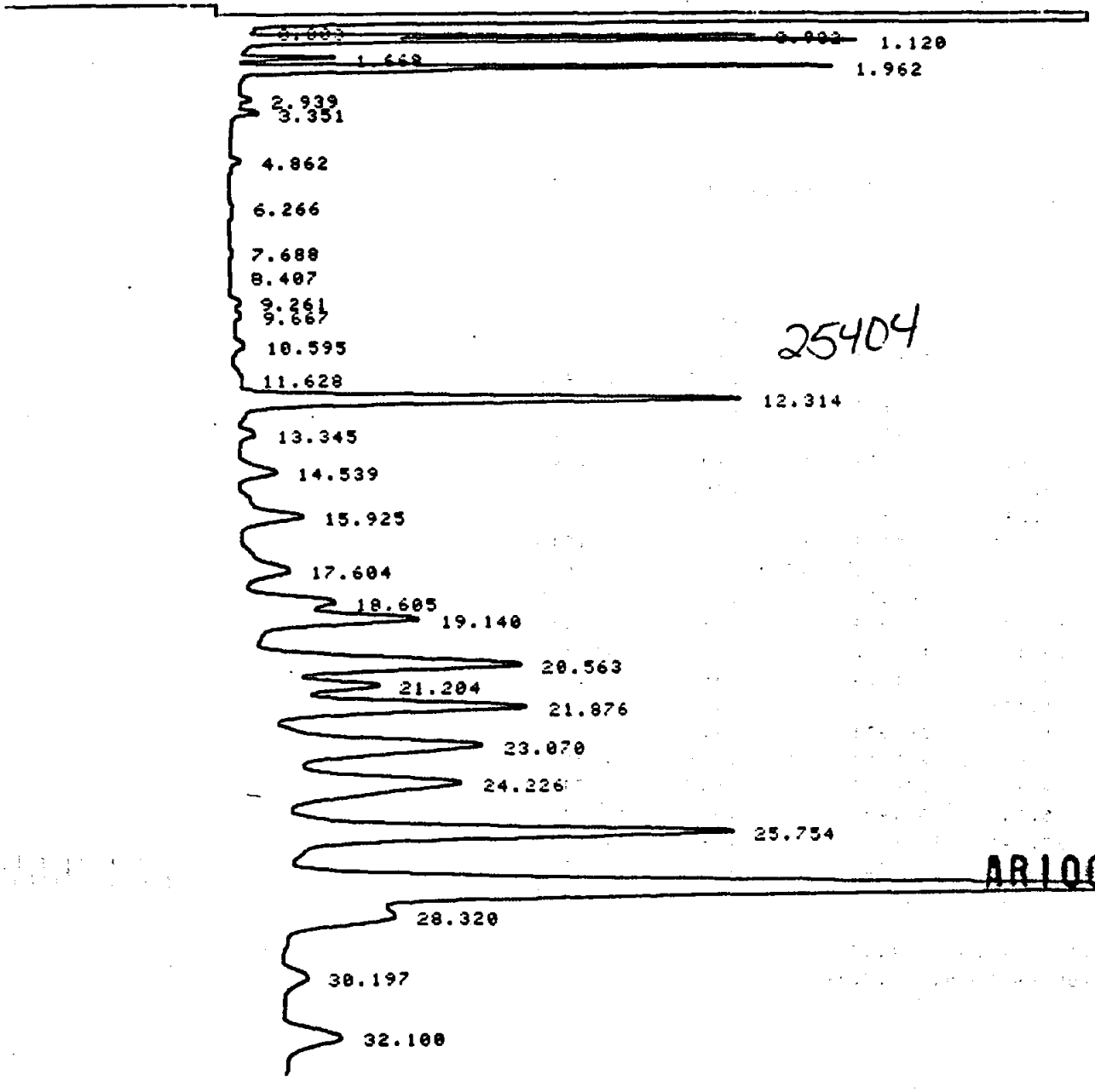
AREA%

RT	AREA	TYPE	WIDTH	AREA%
.554	428564	BP	.066	6.62968
1.009	30047	PV	.087	.46481
1.124	21613	VP	.074	.33434
2.779	9062	PV	.148	.14018
3.862	17056	PB	.190	.26385
9.993	20771	PV	.463	.32132
12.295	274835	VB	.359	4.25156
14.615	85208	PV	.520	1.31813
15.892	75435	VP	.410	1.16694
17.565	63373	PP	.520	.98035
18.571	93989	PV	.396	1.45396
19.103	188082	VP	.404	2.90954
20.523	291464	PV	.448	4.50881
21.175	122386	VV	.394	1.89325
21.837	264971	VV	.422	4.09897
23.029	225654	VV	.526	3.49076
24.181	230868	VV	.617	3.57141
25.713	381494	VP	.448	5.90153
27.445	3546854	PB	.448	54.86810
30.146	26238	BP	.561	.40589
32.035	66364 I	PP	.641	1.02662

TOTAL AREA=6464330
MUL FACTOR=1.0000E+00

AR100456

RUN # 1021 JUN 20, 1990 13:21:07
START



25404

AR100457

AREA%

RT	AREA	TYPE	WIDTH	AREA%
.982	318717	PV	.077	2.18426
1.120	454747	VB	.093	3.11652
1.668	77119	BP	.100	.52852
1.962	677427	PB	.143	4.64261
2.939	29901	BV	.223	.20492
3.351	34708	VB	.165	.23786
4.862	24869	BB	.231	.17043
6.266	14023	BV	.316	.09610
7.668	12208	VP	.294	.08367
9.261	25623	VV	.268	.17560
9.667	29852	VV	.298	.20458
10.595	48425	VP	.434	.33187
11.628	29902	PV	.479	.20493
12.314	1099073	VB	.276	7.53228
13.345	38696	PP	.279	.26520
14.539	129103	PP	.411	.88478
15.925	247486	PP	.485	1.69610
17.604	198978	PP	.550	1.36366
18.605	269774	PV	.399	1.84884
19.140	532684	VV	.405	3.65064
20.563	929005	VV	.452	6.36675
21.204	342619	VV	.378	2.34807
21.876	848826	VV	.414	5.81726
23.070	903477	VV	.550	6.19180
24.226	888231	VV	.623	6.08732
25.754	1485556	VB	.423	10.18096
27.485	3977494	BV	.518	27.25898
28.320	518059	VP	.594	3.55041
30.197	115766	PP	.548	.79338
32.100	289158 I	PP	.621	1.98169

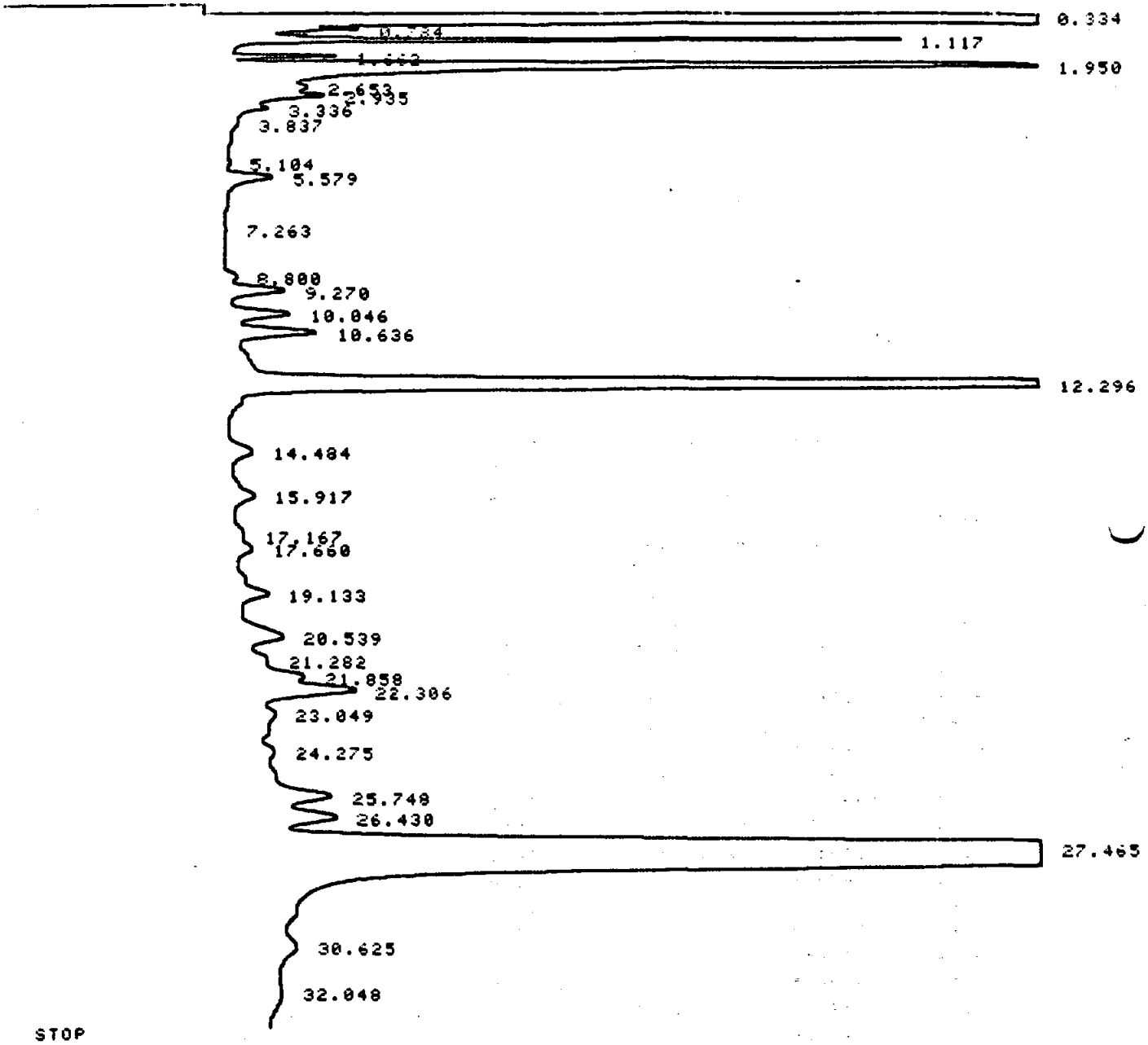
TOTAL AREA=1.4592E+07
MUL FACTOR=1.0000E+00

AR100458

RUN # 1022 JUN 20, 1990 13:58:00

START

354107



STOP

RUN# 1022 JUN 20, 1990 13:58:00

SAMPLE# 4

AR100459

AREA%

RT	AREA	TYPE	WIDTH	AREA%
.334	27595696	BV	.118	57.96518
.784	167860	VV	.143	.35259
1.117	586509	VB	.102	1.23197
1.662	87852	BV	.099	.18453

SAMPLE# 4

AREA%

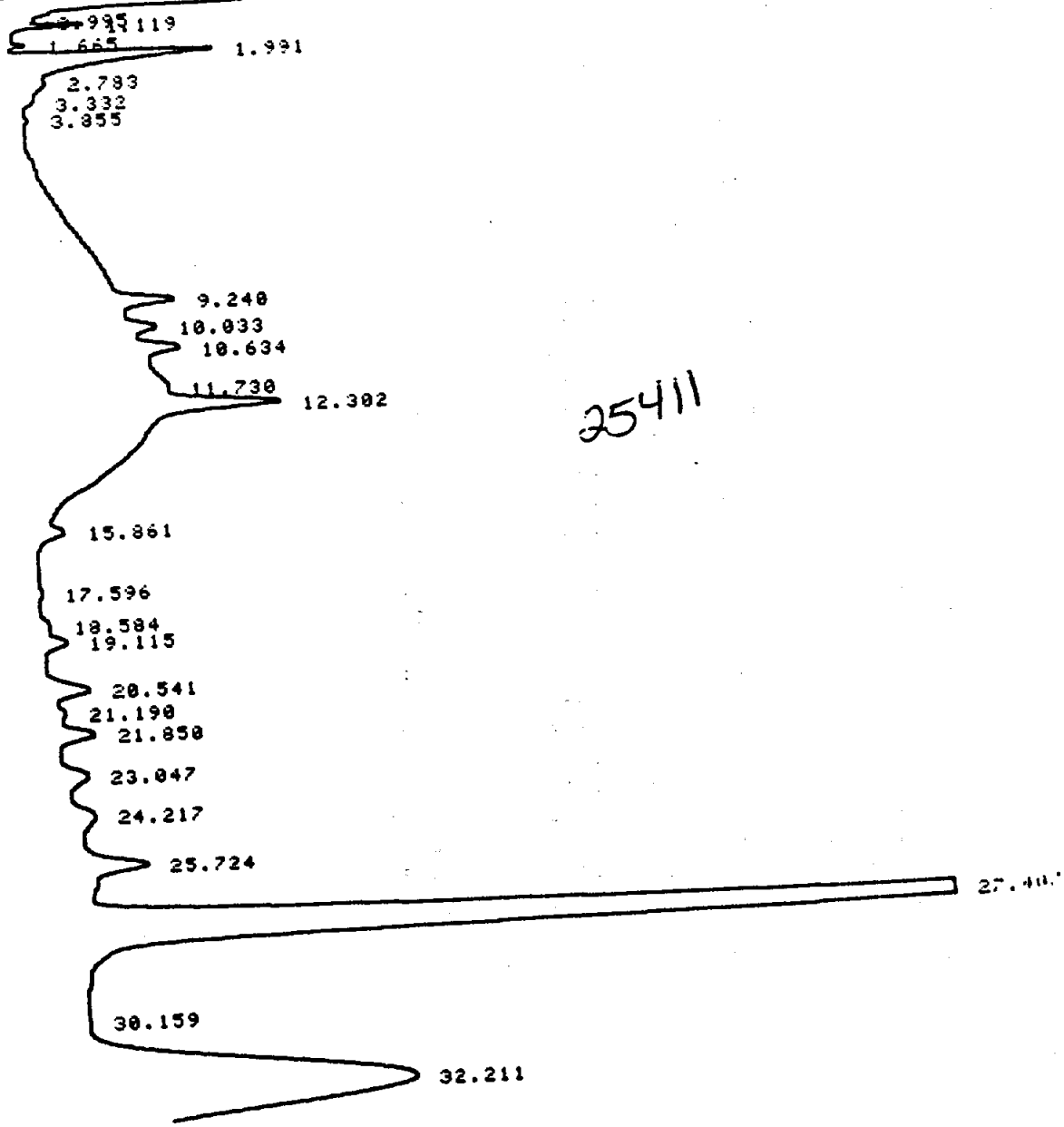
RT	AREA	TYPE	WIDTH	AREA%
.334	27595696	BV	.118	57.96518
.784	167860	VV	.143	.35259
1.117	586509	VB	.102	1.23197
1.662	87852	BV	.099	.18453
1.950	2041848	VV	.217	4.28893
2.653	183130	VV	.279	.38467
2.935	206838	VV	.260	.43447
3.336	91291	VV	.273	.19176
3.837	38550	VB	.406	.08097
5.104	10775	BV	.212	.02263
5.579	128533	VB	.323	.26999
7.263	9360	BP	.308	.01966
8.800	32085	PV	.292	.06740
9.270	147410	VV	.303	.30964
10.046	157779	VV	.311	.33142
10.636	221489	VV	.312	.46524
12.296	3901930	VB	.310	8.19606
14.484	100766	PV	.498	.21166
15.917	107539	VV	.541	.22589
17.167	40174	VV	.435	.08439
17.660	64825	VP	.425	.13617
19.133	125758	PP	.505	.26416
20.539	164341	PV	.504	.34520
21.282	65556	VV	.385	.13770
21.858	173844	VV	.388	.36516
22.306	367133	VV	.433	.77117
23.049	82345	VV	.504	.17297
24.275	39316	PV	.397	.08258
25.740	250587	VV	.512	.52636
26.430	217952	VV	.433	.45781
27.465	10057912	VB	.768	21.12680
30.625	78661	BV	.637	.16523
32.048	61803	VP	.881	.12982

TOTAL AREA=4.7607E+07
MUL FACTOR=1.0000E+00

AR100460

RUN # 1023 JUN 20, 1990 14:34:53

START



25411

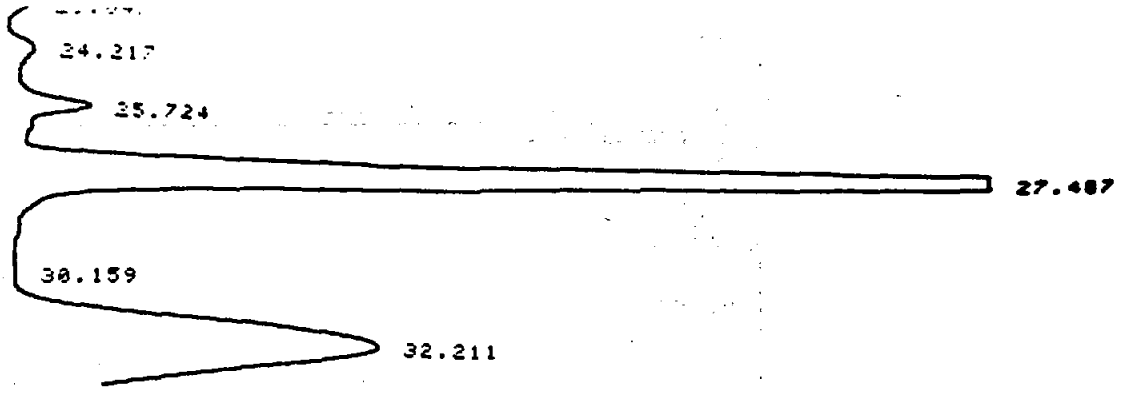
STOP

RUN# 1023 JUN 20, 1990 14:34:53

SAMPLES

AR100461

AR100461



STOP

RUN# 1023 JUN 20, 1990 14:34:53

SAMPLE# 5

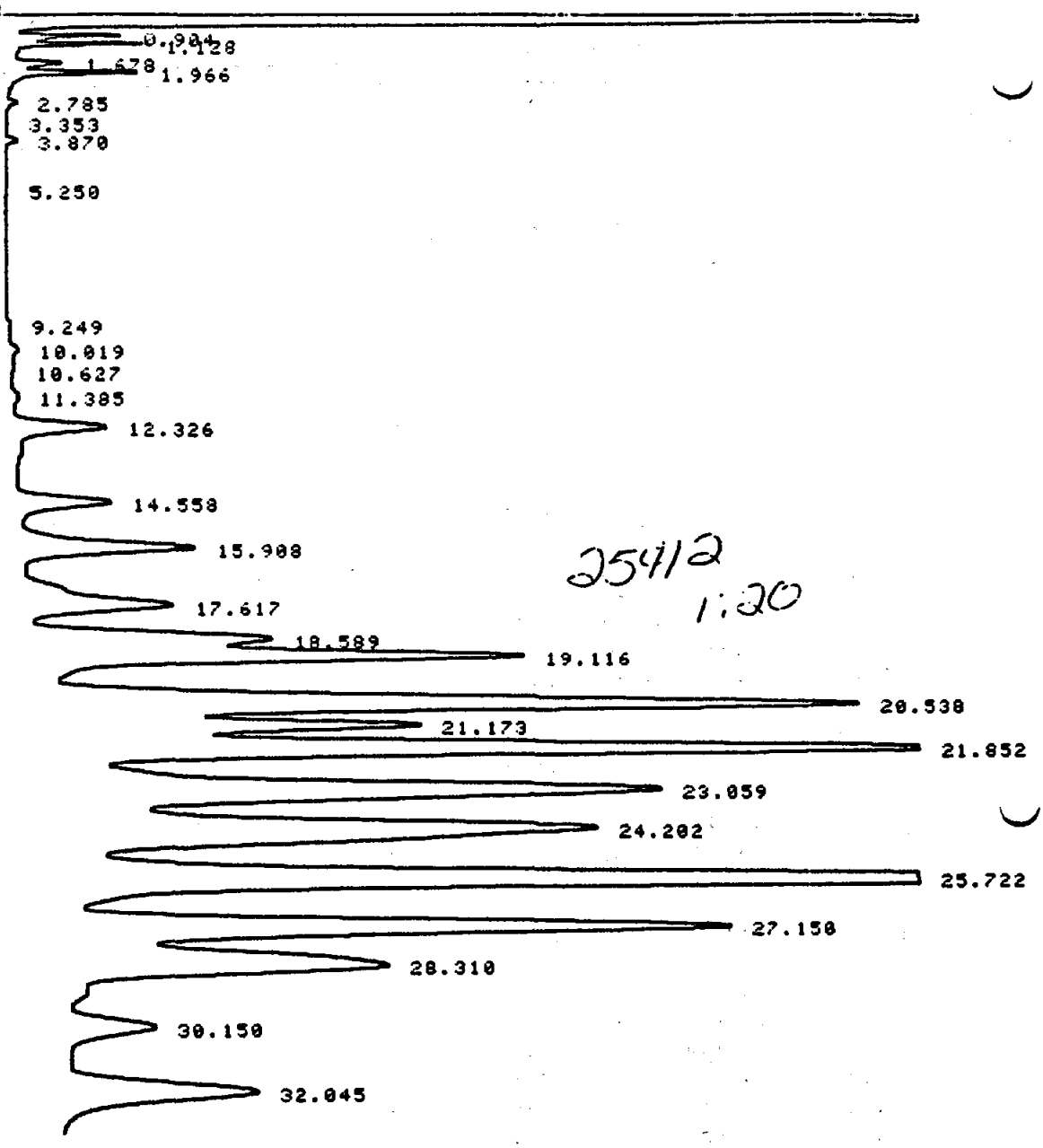
AREA%

RT	AREA	TYPE	WIDTH	AREA%
1.119	34088	VP	.074	.19453
1.665	13832	VP	.105	.07895
1.991	552687	PV	.362	3.15475
2.783	122062	VV	.458	.69673
3.332	47043	VV	.291	.26852
3.855	38257	VV	.339	.21837
9.240	2056773	VV	1.918	11.74013
10.033	541336	VV	.591	3.09996
10.634	604356	VV	.562	3.44963
11.730	789883	VV	.818	4.50867
12.302	2306342	VB	1.291	13.16466
15.861	32296	BP	.230	.18435
17.596	20687	PP	.467	.11808
18.584	33345	PV	.386	.19033
19.115	77778	VB	.396	.44396
20.541	137477	PV	.439	.78472
21.190	42132	VV	.382	.24049
21.850	120803	VP	.408	.68955
23.047	103144	PV	.518	.58875
24.217	149580	VV	.736	.85381
25.724	341017	VV	.646	1.94653
27.487	5717571	VB	.525	32.63626
30.159	12660	BV	.496	.07226
32.211	3624038 I	VH	1.487	20.68811

TOTAL AREA=1.7519E+07
MUL FACTOR=1.0000E+00

AR100462

RUN # 1024 JUN 20, 1990 15:11:49
START

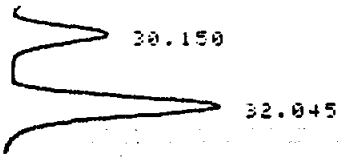


25412
1:20

STOP

AR100463

AR100463



STOP

RUN# 1024 JUN 20, 1990 15:11:49

SAMPLE# 6

AREA%

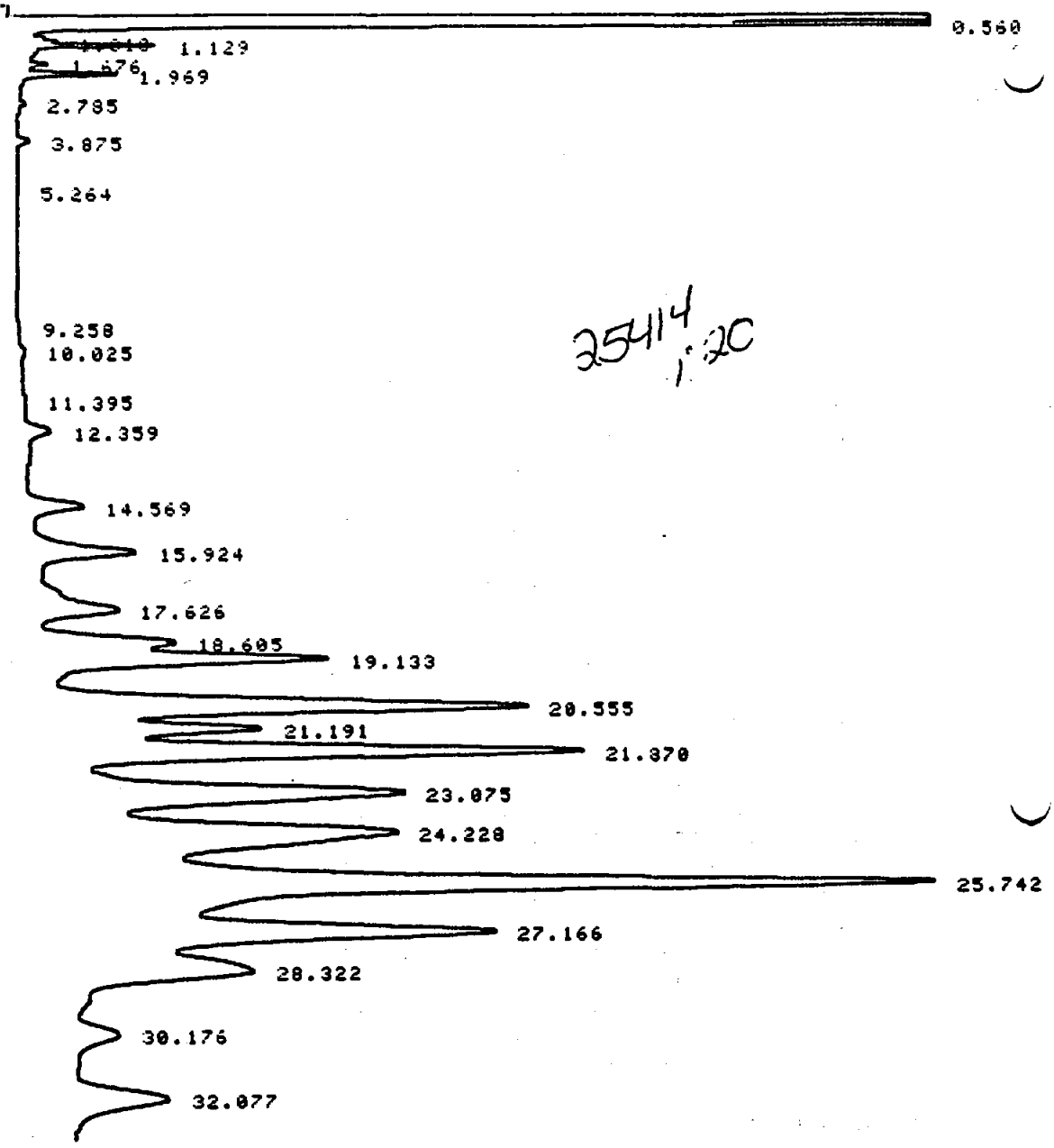
RT	AREA	TYPE	WIDTH	AREA%
.904	78340	PV	.099	.23062
1.128	79702	VV	.083	.23463
1.678	59440	VV	.162	.17499
1.966	120915	VB	.126	.35596
2.785	13693	BP	.160	.04031
3.870	18363	PB	.182	.05406
5.250	10964	BB	.391	.03228
9.249	49718	PV	1.031	.14636
10.019	49533	VV	.475	.14582
10.627	34962	VV	.524	.10292
11.385	56389	VV	.533	.16600
12.326	330750	VV	.432	.97369
14.558	403297	VV	.503	1.18726
15.908	717274	VV	.505	2.11158
17.617	838535	VV	.667	2.46856
18.589	861872	VV	.432	2.53726
19.116	1842917	VV	.474	5.42536
20.538	3258064	VV	.507	9.59140
21.173	1247770	VV	.402	3.67331
21.852	3430608	VV	.466	10.09936
23.059	3269434	VV	.664	9.62488
24.202	3406238	VV	.770	10.02762
25.722	5551082	VV	.507	16.34181
27.150	3022549	VV	.555	8.89807
28.310	2278813	VV	.796	6.70859
30.150	1107080	VV	.993	3.25913
32.045	1830291	I VH	.975	5.38819

TOTAL AREA=3.3969E+07
MUL FACTOR=1.0000E+00

AR100464

RUN # 1025 JUN 20, 1990 15:48:48

START



25414
1:20

STOP

AR100465

AR100465

30.176

32.077

STOP

RUN# 1025 JUN 20, 1990 15:48:48

SAMPLE# 7

AREA%

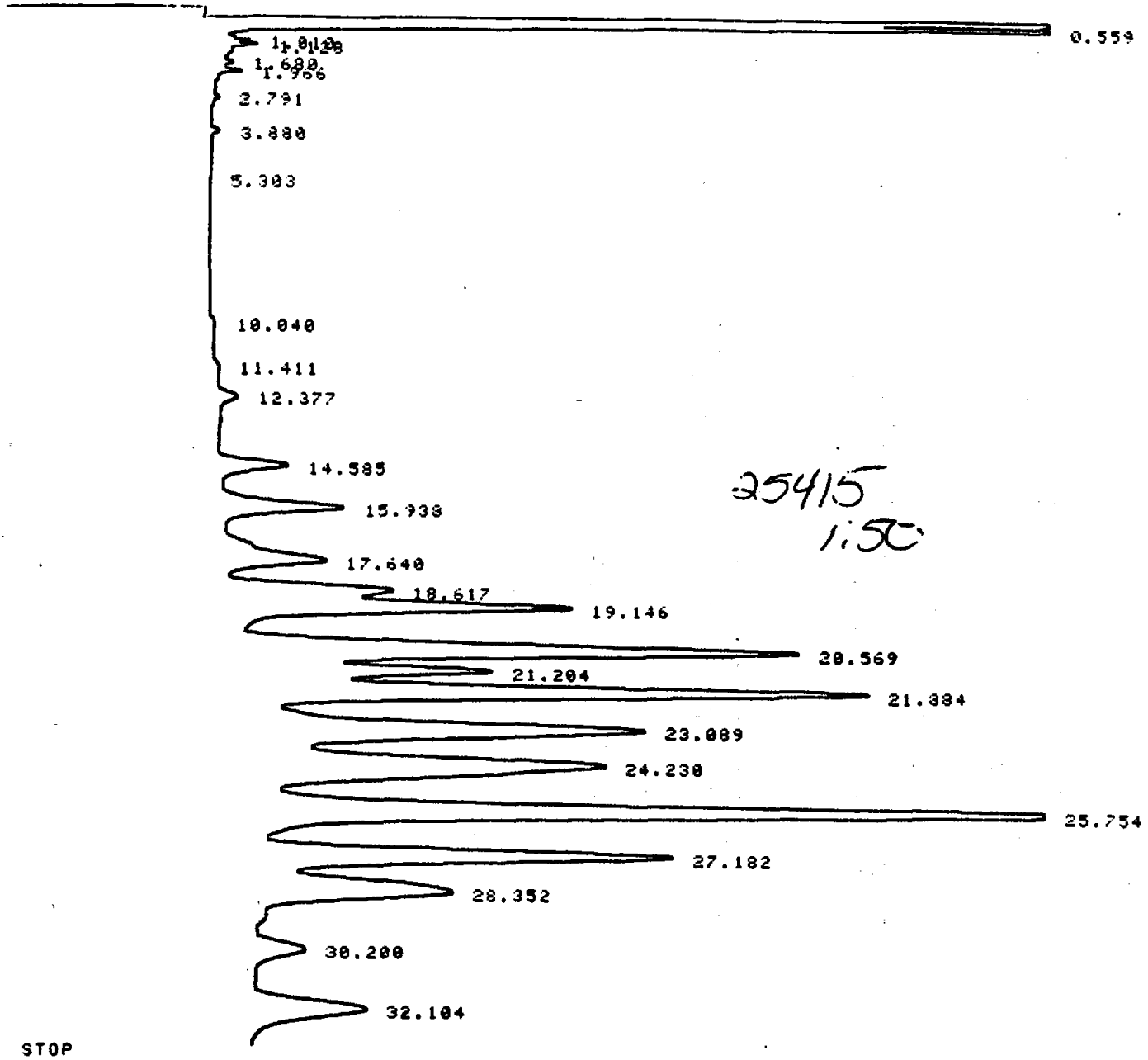
RT	AREA	TYPE	WIDTH	AREA%
.560	265021	BP	.054	1.14036
1.010	19332	PV	.111	.08318
1.129	76331	VB	.084	.32845
1.676	16849	BV	.109	.07250
1.969	77330	VB	.110	.33274
2.785	9035	BB	.142	.03888
3.875	19711	PB	.184	.08481
5.264	9031	PB	.428	.03886
10.025	14189	BV	.306	.06105
11.395	23561	VV	.491	.10138
12.359	105326	VV	.458	.45321
14.569	234194	VV	.501	1.00772
15.924	461657	VV	.540	1.98647
17.626	535086	VV	.735	2.30243
18.605	502584	VV	.437	2.16257
19.133	1086023	VV	.475	4.67306
20.555	1910929	VV	.505	8.22255
21.191	723611	VV	.406	3.11363
21.870	1957556	VV	.466	8.42319
23.075	1927177	VV	.674	8.29247
24.228	2412264	VV	.859	10.37975
25.742	4685315	VV	.681	20.16049
27.166	2395970	VV	.676	10.30964
28.322	1753987	VV	1.023	7.54725
30.176	804203	VV	1.133	3.46041
32.077	1213830	I VH	1.128	5.22300

TOTAL AREA=2.3240E+07
MUL FACTOR=1.0000E+00

AR100466

RUN # 1026 JUN 20, 1990 16:25:48

START



25415
1:50

STOP

RUN# 1026 JUN 20, 1990 16:25:48

SAMPLE# 8

AR100467

32.104

STOP

RUN# 1026 JUN 20, 1990 16:25:48

SAMPLE# 3

AREA%

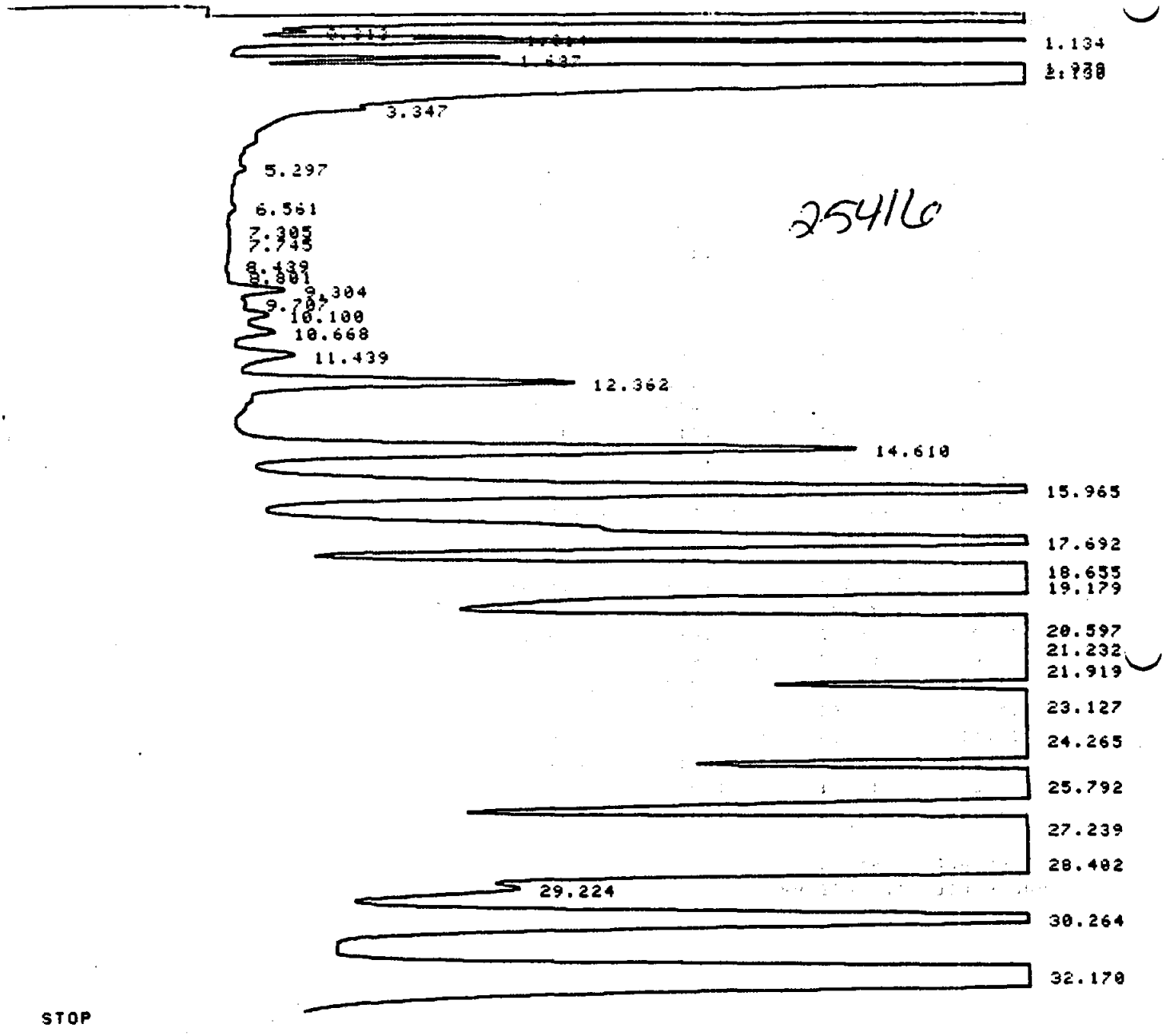
RT	AREA	TYPE	WIDTH	AREA%
.559	266940	BP	.055	1.08714
1.010	21133	PV	.108	.08607
1.128	25039	VV	.094	.10197
1.680	16992	VV	.156	.06920
1.966	23314	VB	.118	.09495
2.791	9258	BP	.146	.03770
3.880	15979	PB	.185	.06508
5.303	7625	PB	.452	.03105
10.040	6428	PB	.172	.02618
11.411	27190	BV	.439	.11073
12.377	108549	VV	.510	.44208
14.585	292323	VV	.466	1.19052
15.938	533167	VV	.492	2.17138
17.640	627637	VV	.669	2.55612
18.617	638713	VV	.429	2.60123
19.146	1380863	VV	.468	5.62371
20.569	2433254	VV	.504	9.90968
21.204	923427	VV	.401	3.76075
21.884	2496242	VV	.463	10.16621
23.089	2352672	VV	.659	9.58150
24.230	2518502	VV	.775	10.25686
25.754	3990562	VV	.508	16.25198
27.182	2050326	VV	.540	8.35016
28.352	1621647	VV	.814	6.60433
30.200	813801	VV	1.028	3.31429
32.104	1352732 I	VH	1.046	5.50914

TOTAL AREA=2.4554E+07
MUL FACTOR=1.0000E+00

AR100468

RUN # 1027 JUN 20, 1990 17:02:50

START



25416

STOP

RUN# 1027 JUN 20, 1990 17:02:50

AR100469

STOP

RUN# 1027 JUN 20, 1990 17:02:50

SAMPLE# 9

AREA%

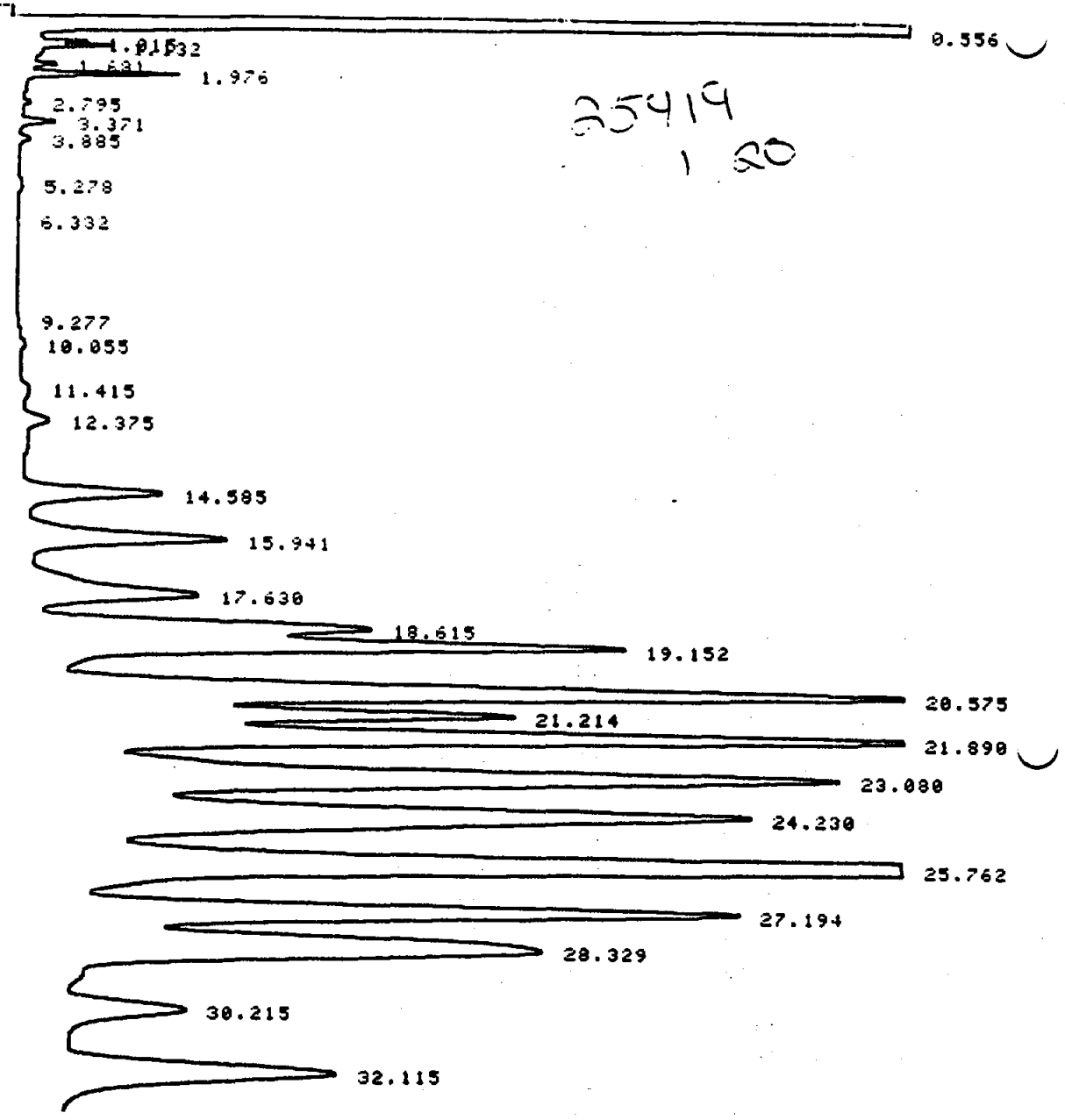
RT	AREA	TYPE	WIDTH	AREA%
.813	21975	BP	.078	.00969
1.014	146574	PV	.069	.06460
1.134	839918	VB	.090	.37019
1.687	274159	PV	.119	.12083
1.979	1045787	VV	.093	.46092
2.130	10531888	VV	.433	4.64183
3.347	487162	VV	.417	.21471
5.297	70903	VV	.428	.03125
6.561	30634	VP	.360	.01350
7.305	11071	PV	.273	.00488
7.745	13461	VP	.343	.00593
8.801	9325	VV	.251	.00411
9.304	145720	VV	.290	.06422
9.707	47576	VV	.264	.02097
10.100	118800	VV	.327	.05236
10.668	160882	VV	.395	.07091
11.439	246717	VV	.436	.10874
12.362	942752	VV	.320	.41551
14.610	2150648	VV	.404	.94788
15.965	4181672	VV	.466	1.84303
17.692	5314349	VV	.608	2.34225
18.655	5275523	VV	.426	2.32514
19.179	11227040	VV	.473	4.94821
20.597	18785648	VV	.536	8.27960
21.232	8410618	VV	.409	3.70690
21.919	20888816	VV	.497	9.20655
23.127	20537392	VV	.694	9.05166
24.265	22424672	VV	.814	9.88346
25.792	34345312	VV	.560	15.13737
27.239	23202304	VV	.636	10.22620
28.402	17385440	VV	.839	7.66246
29.224	1146615	VV	.474	.50536
30.264	5149395	VV	.650	2.26955
32.170	11320240 I	VH	.750	4.98929

TOTAL AREA=2.2689E+08
MUL FACTOR=1.0000E+00

AR100470

RUN # 1030 JUN 20, 1990 18:54:11

START



25419
1 20

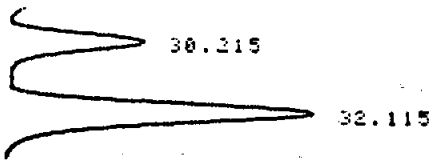
STOP

RUN# 1030 JUN 20, 1990 18:54:11

SAMPLE# 12

AR100470

AR100471



STOP

RUN# 1030 JUN 20, 1990 18:54:11

SAMPLE# 12

AREA%

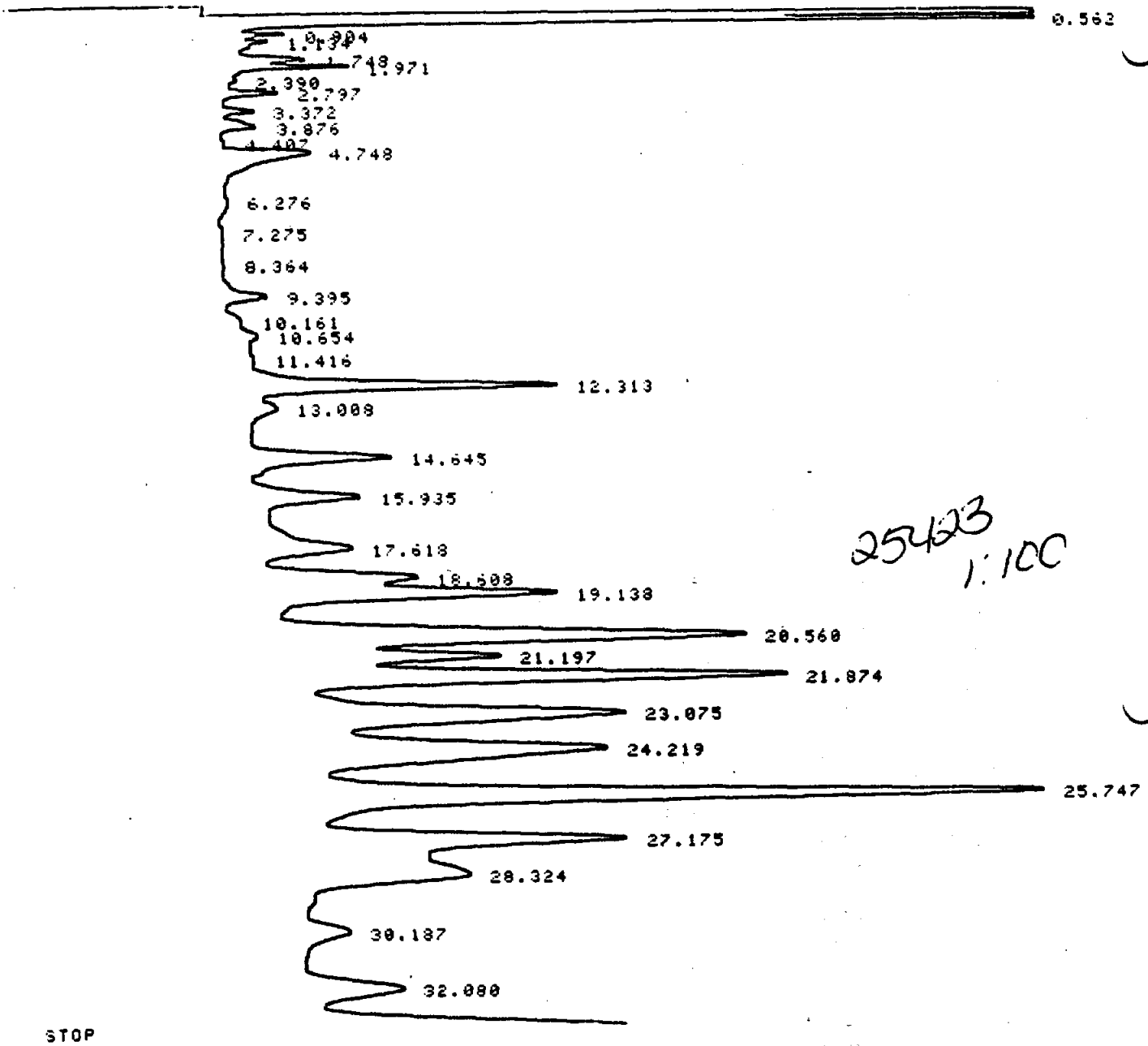
RT	AREA	TYPE	WIDTH	AREA%
1.015	34934	PV	.089	.08883
1.132	65753	VV	.110	.16720
1.681	22575	VV	.112	.05740
1.976	128137	VB	.110	.32583
2.795	11835	BV	.149	.03009
3.371	42670	VP	.155	.10850
3.885	17625	PB	.184	.04482
5.278	17253	PB	.368	.04387
6.332	5030	BP	.265	.01279
9.277	7714	BV	.328	.01962
10.055	27905	VV	.393	.07096
11.415	58580	VV	.534	.14896
12.375	119177	VV	.464	.30305
14.585	503285	VV	.444	1.27978
15.941	802995	VV	.493	2.04190
17.630	923782	VV	.651	2.34904
18.615	1195792	VV	.435	3.04072
19.152	2188062	VV	.465	5.56391
20.575	3528864	VV	.507	8.97337
21.214	1573227	VV	.408	4.00048
21.890	3347560	VV	.463	8.51234
23.080	4086010	VV	.641	10.39011
24.230	4164224	VV	.731	10.58900
25.762	6533466	VV	.510	16.61362
27.194	3010208	VV	.537	7.65451
28.329	3524720	VV	.864	8.96284
30.215	1223068	VV	.912	3.11008
32.115	2161522	I VH	.865	5.49642

TOTAL AREA=3.9326E+07
MUL FACTOR=1.0000E+00

AR100472

RUN # 1033 JUN 20, 1990 20:45:49

START



25423
1:100

STOP

RUN# 1033 JUN 20, 1990 20:45:49

SAMPLE# 15

AR100473

SAMPLE# 15

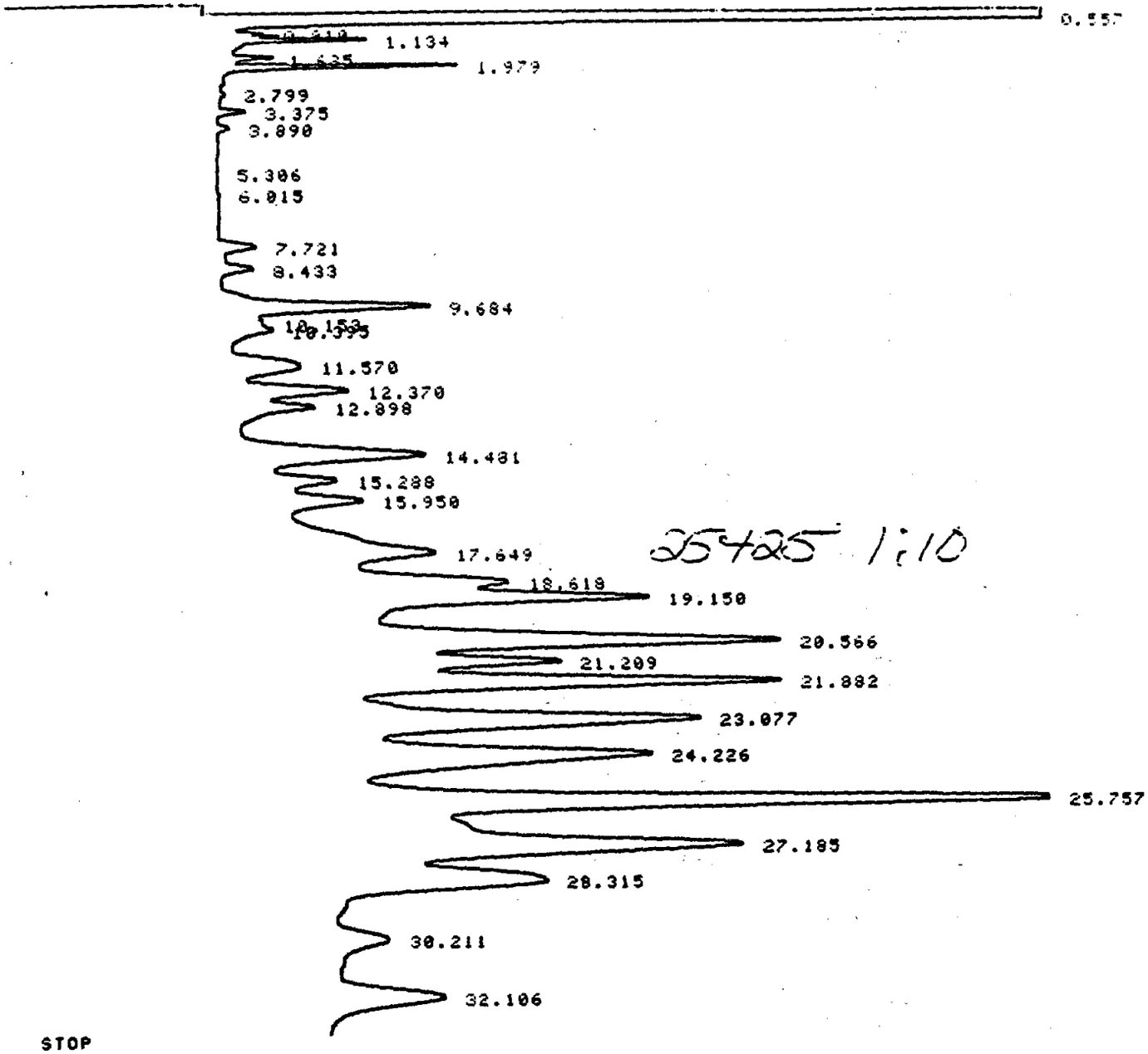
AREA%

RT	AREA	TYPE	WIDTH	AREA%
.562	366138	BP	.071	1.26258
.904	37617	PV	.102	.12972
1.134	26539	VV	.109	.09152
1.748	116834	VV	.198	.40289
1.971	137331	VV	.141	.47357
2.390	11604	VV	.145	.04001
2.797	75188	VP	.167	.25928
3.372	46339	PV	.169	.15979
3.876	84460	VP	.277	.29125
4.407	9612	PV	.210	.03315
4.748	372863	VV	.496	1.28577
6.276	45775	VP	.564	.15785
7.275	13778	PB	.382	.04751
8.364	10640	BV	.314	.03669
9.395	143695	VV	.377	.49551
10.161	61233	VV	.355	.21115
10.654	149561	VV	.494	.51574
11.416	171329	VV	.638	.59081
12.313	1091066	VV	.392	3.76240
13.008	354209	VV	.784	1.22144
14.645	767022	VV	.552	2.64497
15.935	653433	VV	.578	2.25328
17.618	962910	VV	.914	3.32047
18.608	746711	VV	.468	2.57493
19.138	1381937	VV	.500	4.76543
20.560	2362442	VV	.545	8.14657
21.197	961379	VV	.421	3.31519
21.874	2248701	VV	.482	7.75435
23.075	2318166	VV	.698	7.99389
24.219	2619712	VV	.827	9.03373
25.747	3928549	VV	.574	13.54708
27.175	2127330	VV	.642	7.33581
28.324	1995834	VV	.992	6.88237
30.187	1259481	VV	1.264	4.34316
32.080	1339818	VV	.934	4.62019

TOTAL AREA=2.8999E+07
MUL FACTOR=1.0000E+00

AR100474

START



25425 1:10

STOP

RUN# 1035 JUN 20, 1990 22:00:27

SAMPLE# 17

AR100475

AR100475

SAMPLE# 17

AREA%

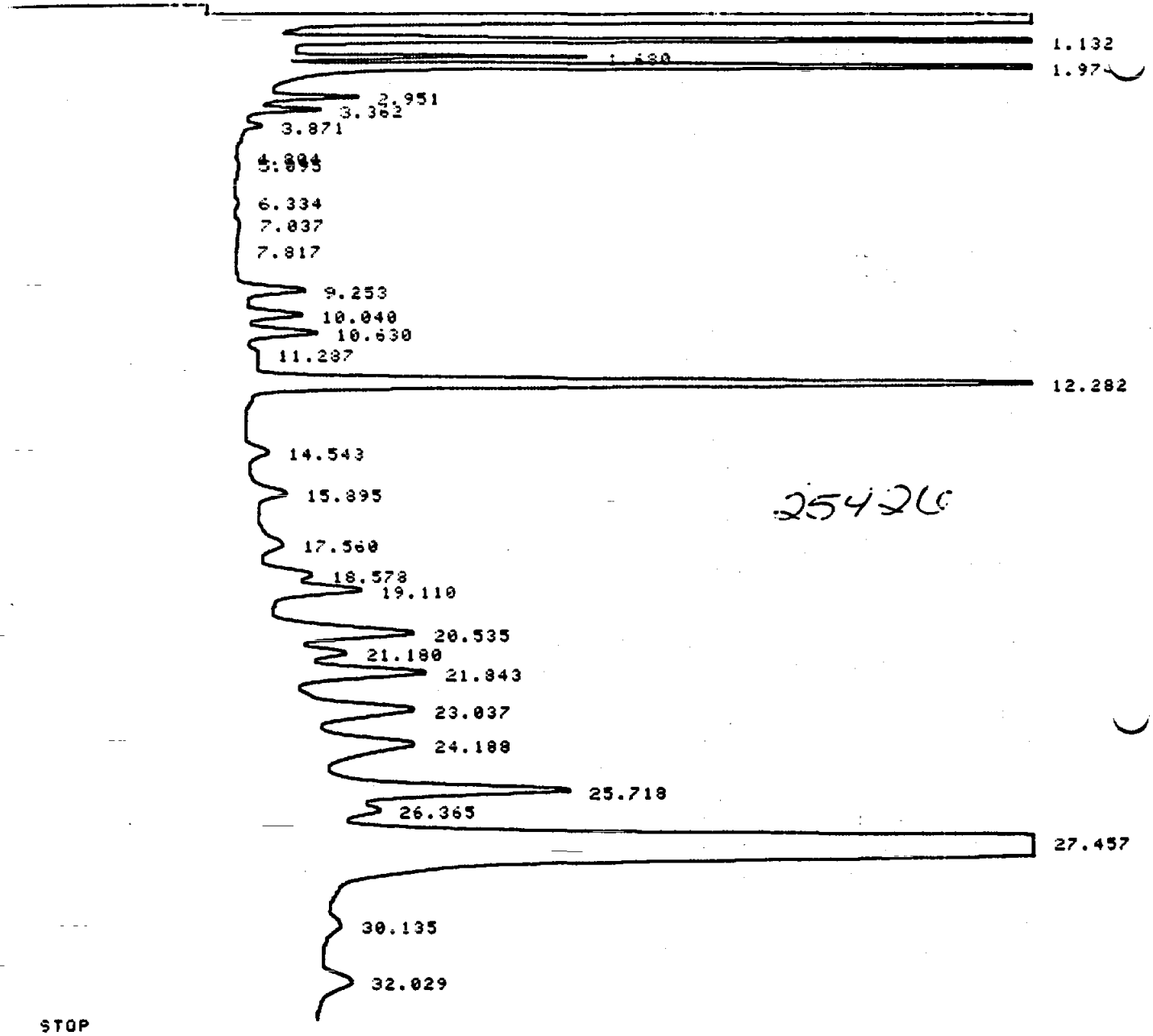
RT	AREA	TYPE	WIDTH	AREA%
.910	16592	PV	.070	.04374
1.134	133456	VB	.121	.35186
1.685	43901	BV	.123	.11574
1.979	215949	VB	.113	.56935
2.799	10283	PV	.154	.02711
3.375	37168	VP	.157	.09799
3.890	21573	PP	.186	.05688
5.306	9396	PP	.353	.02477
6.015	9447	PV	.272	.02491
7.721	100782	PV	.307	.26571
8.433	99491	VV	.325	.26231
9.684	639139	VV	.364	1.68508
10.153	76485	VV	.201	.20165
10.395	201083	VV	.443	.53015
11.570	426336	VV	.630	1.12403
12.370	434660	VV	.409	1.14598
12.898	377458	VV	.484	.99516
14.481	1021783	VV	.606	2.69392
15.288	445875	VV	.467	1.17555
15.950	681961	VV	.585	1.79798
17.649	1853284	VV	1.056	4.88617
18.618	1348904	VV	.573	3.55637
19.150	2228997	VV	.633	5.87673
20.566	2893864	VV	.631	7.62965
21.209	1261531	VV	.455	3.32602
21.882	2414170	VV	.526	6.36494
23.077	2931069	VV	.748	7.72774
24.226	2992602	VV	.850	7.88997
25.757	4129786	VV	.560	10.88815
27.185	3972526	VV	.935	10.47353
28.315	2900318	VV	1.105	7.64666
30.211	1808063	VV	1.387	4.76694
32.106	2191280 I	VH	1.248	5.77729

TOTAL AREA=3.7929E+07
MUL FACTOR=1.0000E+00

AR100476

RUN # 1036 JUN 20, 1990 22:37:48

START



25426

STOP

RUN# 1036 JUN 20, 1990 22:37:48

SAMPLE# 18

AREA%

AR100477

STOP

RUN# 1036 JUN 20, 1990 22:37:48

SAMPLE# 18

AREA%

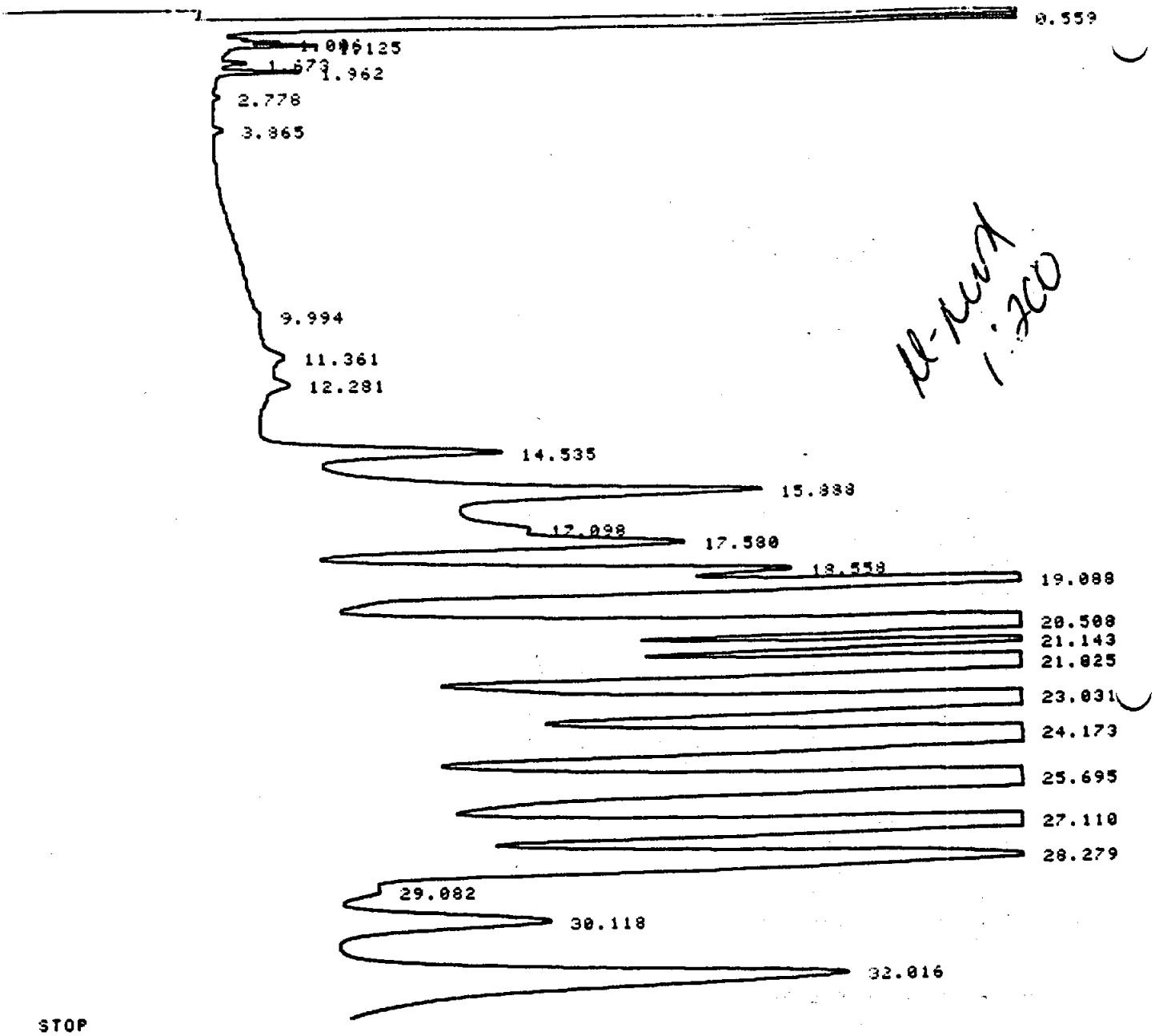
RT	AREA	TYPE	WIDTH	AREA%
1.132	1681622	BB	.096	8.01310
1.680	258523	BP	.104	1.23189
1.974	1802276	PB	.122	8.58803
2.951	133435	BV	.169	.63583
3.362	83824	VP	.151	.39943
3.871	32131	PP	.207	.15311
5.095	14330	VP	.332	.06828
6.334	11238	PP	.275	.05355
7.037	20116	PV	.356	.09585
7.817	7169	VV	.369	.03416
9.253	176673	PV	.313	.84186
10.040	151922	VV	.293	.72392
10.630	181499	VV	.289	.86486
11.287	46292	VV	.385	.22059
12.282	2016977	VB	.294	9.61110
14.543	70115	PV	.379	.33411
15.895	124308	VV	.430	.59234
17.560	123134	VP	.600	.58675
18.578	158808	PV	.394	.75674
19.110	314521	VB	.398	1.49872
20.535	533645	PV	.456	2.54287
21.180	221274	VV	.393	1.05439
21.843	522398	VV	.435	2.48928
23.037	626748	VV	.599	2.98652
24.188	730313	VV	.734	3.48001
25.718	1096877	VV	.494	5.22673
26.365	272759	VV	.459	1.29972
27.457	9320154	VB	.717	44.41147
30.135	70195	BP	.534	.33449
32.029	182646	I PP	.645	.87033

TOTAL AREA=2.0986E+07
MUL FACTOR=1.0000E+00

AR100478

RUN # 1042 JUN 21, 1990 02:22:32

START



STOP

RUN# 1042 JUN 21, 1990 02:22:32

SAMPLE# 24

AR100479

AR100479

STOP 32.016

RUN# 1042 JUN 21, 1990 02:22:32

SAMPLE# 24

AREA%

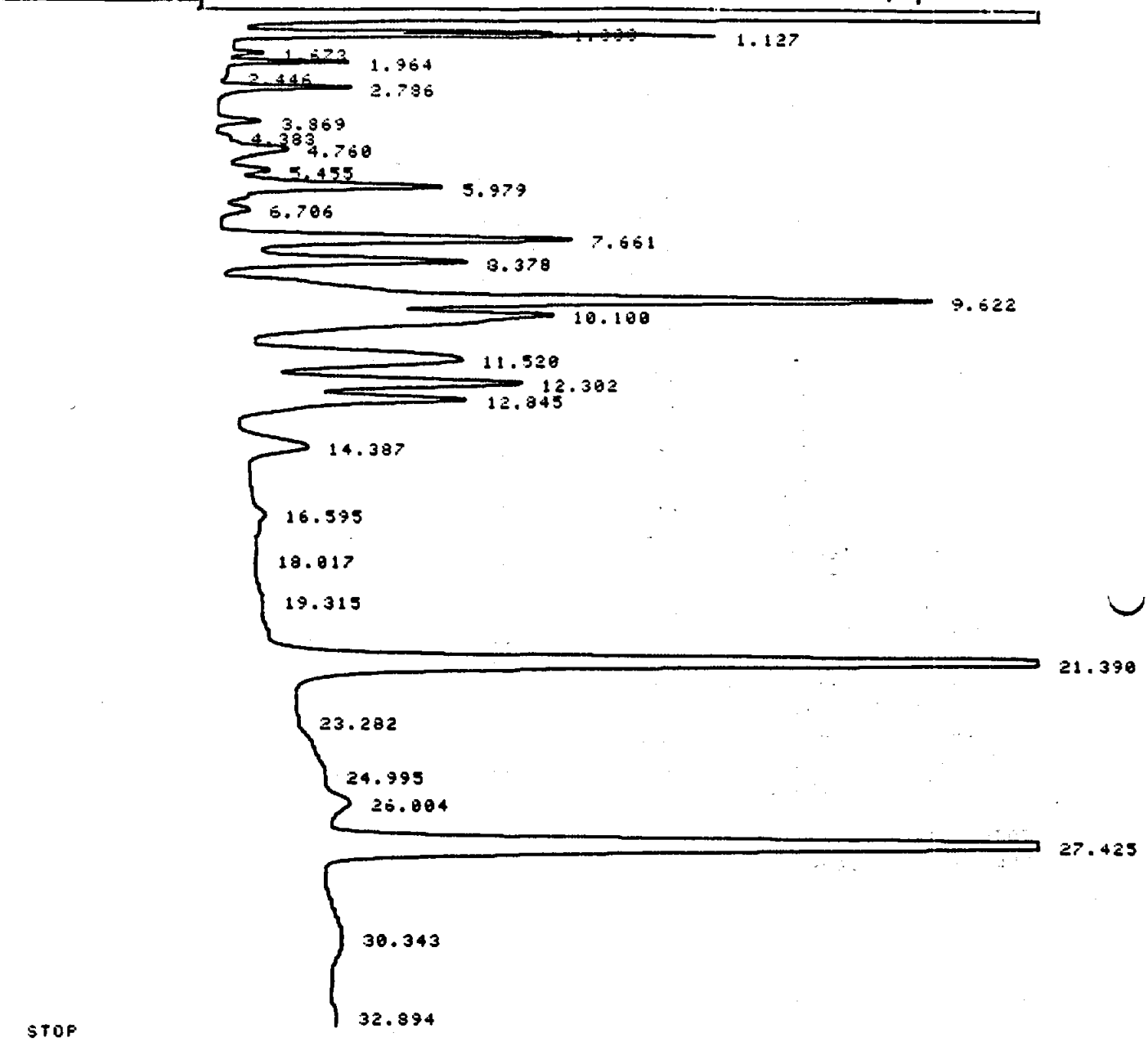
RT	AREA	TYPE	WIDTH	AREA%
.559	560274	BP	.080	.64408
1.006	52819	PV	.110	.06072
1.125	81960	VV	.102	.09422
1.673	29781	VV	.121	.03424
1.962	79814	VB	.112	.09175
2.778	10732	PP	.142	.01234
3.865	21693	PV	.210	.02494
9.994	1084546	VV	2.663	1.24678
11.361	768459	VV	1.270	.88341
12.281	789089	VV	1.223	.90713
14.535	1408131	VV	.583	1.61877
15.888	3375976	VV	.732	3.88097
17.098	1859350	VV	.701	2.13748
17.580	2295488	VV	.581	2.63886
18.558	2199694	VV	.452	2.52874
19.088	4302214	VV	.486	4.94576
20.508	7268659	VV	.523	8.35595
21.143	3016410	VV	.407	3.46762
21.825	7727904	VV	.478	8.88389
23.031	7503715	VV	.684	8.62617
24.173	8119827	VV	.806	9.33444
25.695	13065272	VV	.544	15.01965
27.110	6964442	VV	.557	8.00622
28.279	5587101	VV	.812	6.42285
29.082	721443	VV	.534	.82936
30.118	2306832	VV	.827	2.65190
32.016	5786250 I	VH	1.091	6.65179

TOTAL AREA=8.6988E+07
MUL FACTOR=1.0000E+00

TOTAL AREA=3.6983E+07
MUL FACTOR=1.0000E+00

RUN # 1043 JUN 21, 1990 03:00:06
START

1016 250 ppb



STOP

AR100480

AR100481

STOP 32.894

RUN# 1043 JUN 21, 1990 03:00:06

SAMPLE# 25

AREA%

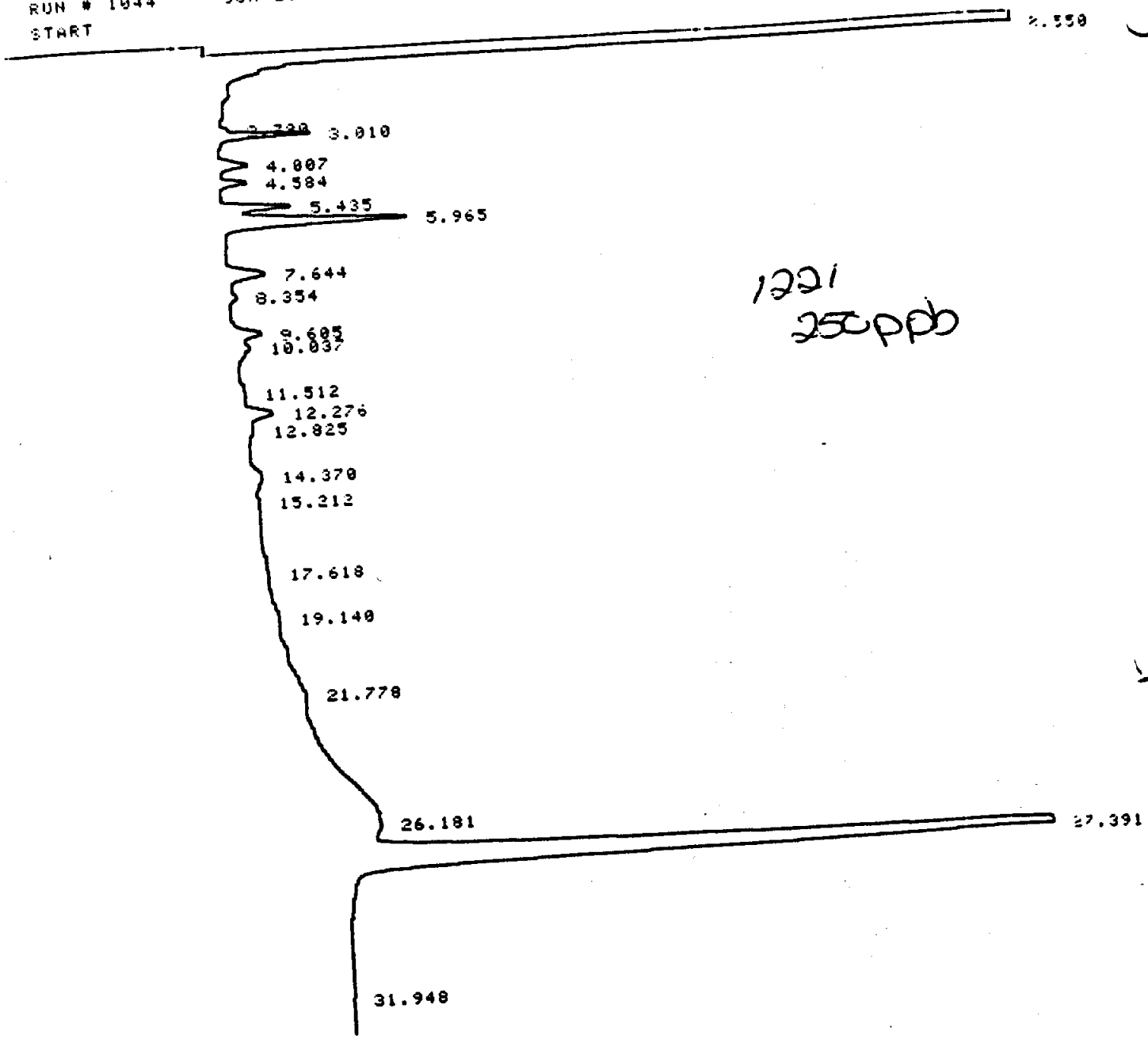
RT	AREA	TYPE	WIDTH	AREA%
1.008	198525	BV	.077	.99756
1.127	358997	VB	.091	1.80391
1.673	35241	BV	.128	.17708
1.964	106488	VB	.106	.53509
2.786	181354	PP	.167	.91128
3.869	69933	VP	.190	.35140
4.383	21811	PV	.160	.10960
4.760	237760	VV	.403	1.19471
5.455	118848	VV	.273	.59720
5.979	582414	VV	.313	2.92655
6.706	73116	VP	.285	.36740
7.661	889769	PV	.306	4.47097
8.378	626036	VV	.311	3.14575
9.622	2354654	VV	.403	11.83182
10.100	1495352	VV	.553	7.51395
11.520	1124405	VV	.588	5.64999
12.302	916463	VV	.384	4.60511
12.845	747552	VP	.392	3.75635
14.387	315640	PV	.559	1.58605
16.595	173586	VV	1.195	.87225
18.017	11663	VP	.363	.05861
19.315	18543	PP	.641	.09318
21.390	3161405	PB	.374	15.88564
23.282	19876	BV	.429	.09987
24.995	307500	VV	1.162	1.54515
26.004	534155	VV	1.138	2.68406
27.425	3732306	VV	.474	18.75435
30.343	1101919	VV	2.751	5.53700
32.894	385722 I	VH	1.066	1.93820

TOTAL AREA=1.9901E+07
MUL FACTOR=1.0000E+00

AR100482

RUN # 1044 JUN 21, 1990 03:37:43

START



1221
250ppb

STOP

RUN# 1044 JUN 21, 1990 03:37:43

SAMPLE# 26

AR100480

AR100483

31.948

STOP

RUN# 1044 JUN 21, 1990 03:37:43

SAMPLE# 26

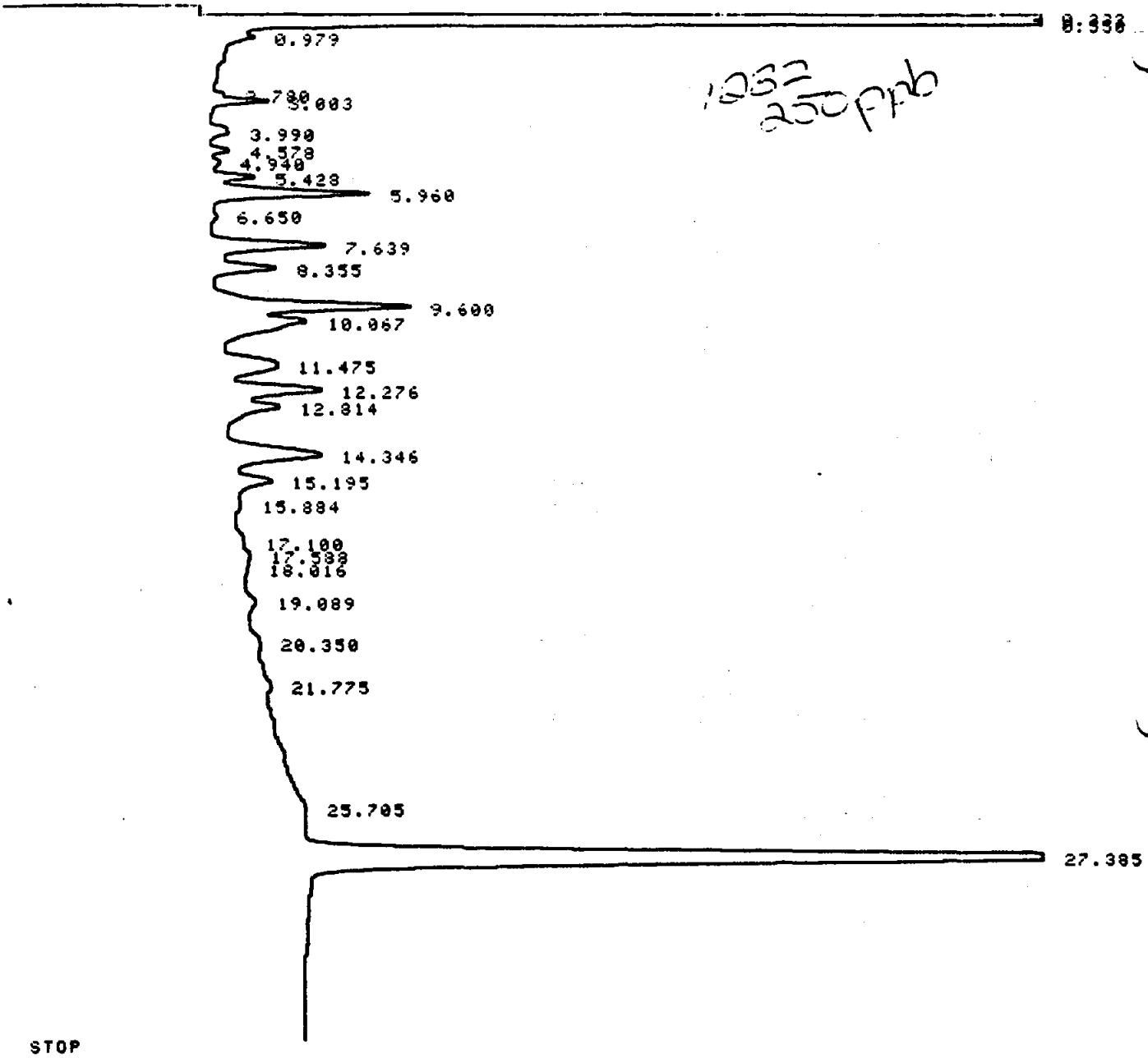
AREA%

RT	AREA	TYPE	WIDTH	AREA%
2.780	9561	PV	.116	.16561
3.010	135546	VB	.173	2.34783
4.007	67997	BV	.267	1.17780
4.584	48431	VP	.203	.83889
5.435	131594	PV	.213	2.27938
5.965	472398	VV	.297	8.18255
7.644	122269	PV	.358	2.11786
8.354	25275	VP	.296	.43780
9.605	89891	PV	.349	1.55703
10.037	65871	VP	.455	1.14097
11.512	33411	PV	.579	.57872
12.276	98660	VV	.371	1.70892
12.825	30707	VP	.411	.53188
14.370	55818	PV	.579	.96684
15.212	17450	VV	.404	.30226
17.618	9182	PP	.595	.15904
21.778	35872	PV	.629	.62135
26.181	868723	VV	2.255	15.04741
27.391	3430368	VB	.457	59.41843
31.948	24217	PV	1.387	.41947

TOTAL AREA=5773242
MUL FACTOR=1.0000E+00

AR100484

RUN # 1045 JUN 21, 1990 04:15:20
ETHPT



STOP

RUN# 1045 JUN 21, 1990 04:15:20

SAMPLE# 27

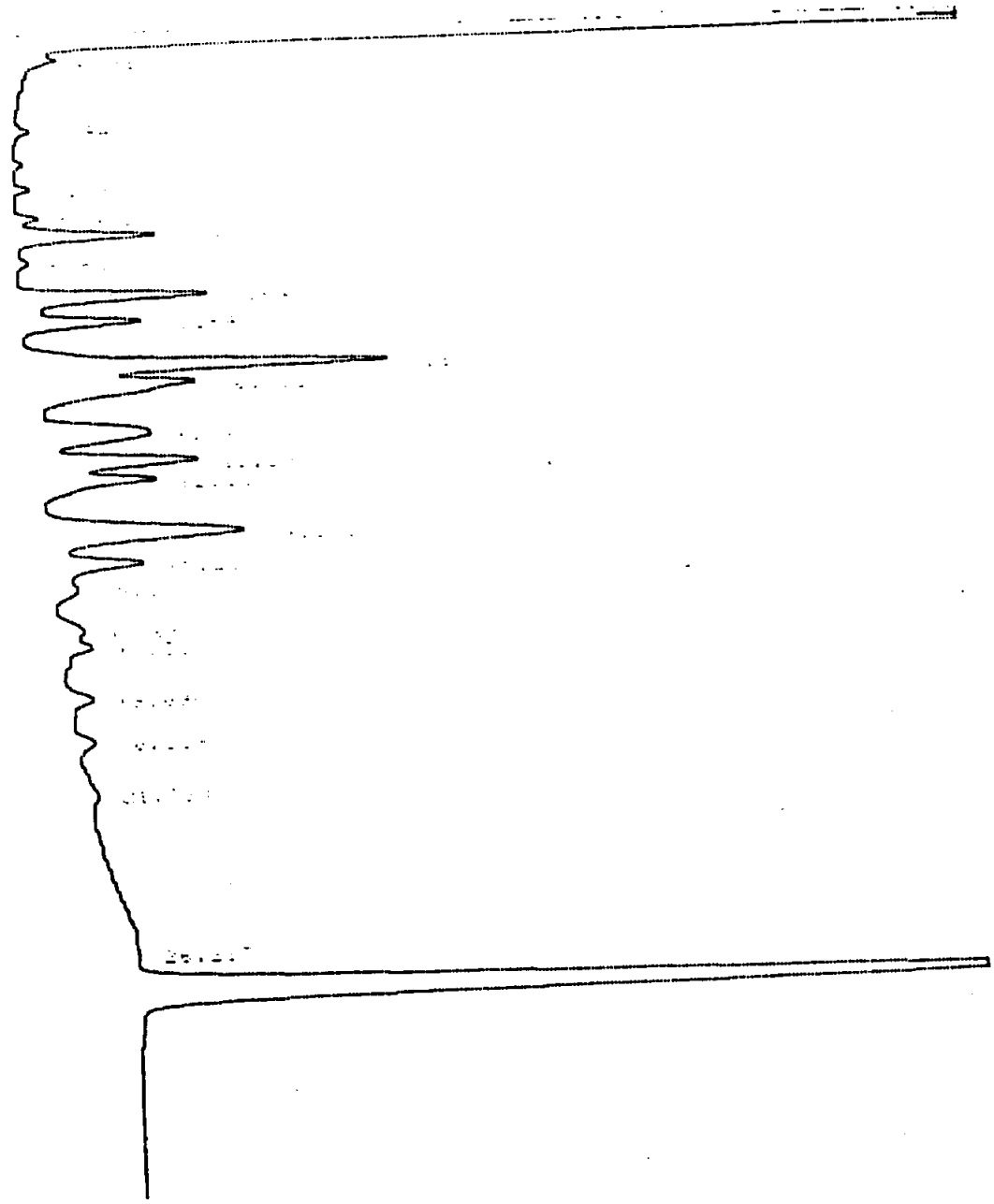
AR100485

AR100485

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]		[illegible]	[illegible]
4.540	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]		[illegible]	[illegible]
5.360	[illegible]		[illegible]	[illegible]
6.450	15441	P	[illegible]	12354
7.519	2?3219	P	.214	3.45969
8.155	177324	P	.200	1.12392
9.600	544109	P	[illegible]	4.73208
10.067	179129		.210	1.1303?
11.475	377116		.274	2.32461
12.276	304500		.314	1.95412
13.514	181046	P	.385	1.51372
14.146	333487	P	.301	[illegible]
15.145	241523		[illegible]	[illegible]
[illegible]	37340		[illegible]	[illegible]
[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]		[illegible]	[illegible]

TOTAL AREA= [illegible]

AR100486



AR100487

STOP

RUN# 1046 JUN 21, 1990 04:52:59

SAMPLE# 28

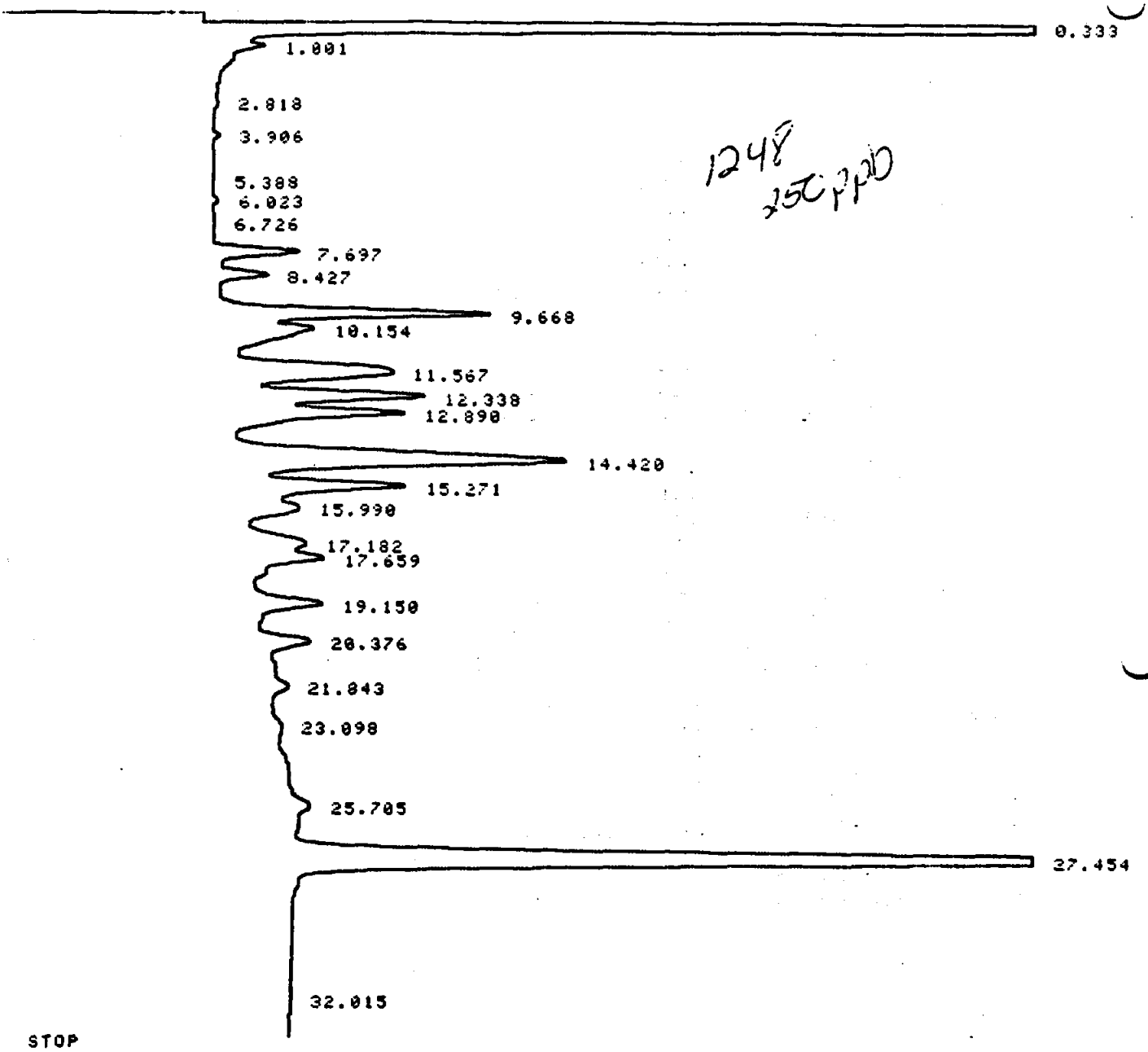
AREA%

RT	AREA	TYPE	WIDTH	AREA%
.331	2911040	BV	.092	21.15749
.550	1784503	VV	.139	12.96980
.985	104959	VB	.314	.76284
2.947	32923	PP	.259	.23928
3.860	18062	PV	.213	.13127
4.583	26582	VP	.205	.19320
5.430	41446	PV	.232	.30123
5.968	286689	VV	.283	2.08366
6.654	24082	VP	.249	.17503
7.647	410730	PV	.305	2.98519
8.364	261901	VP	.305	1.90350
9.607	922911	PV	.356	6.70773
10.082	620268	VV	.516	4.50812
11.494	490804	VV	.583	3.56717
12.290	439643	VV	.381	3.19533
12.825	330346	VV	.395	2.40096
14.356	738325	VV	.517	5.36616
15.205	280875	VV	.412	2.04140
15.895	89686	VV	.475	.65184
17.093	94675	VV	.492	.68810
17.588	96094	VV	.398	.69841
19.090	79429	PB	.416	.57729
20.309	55224	PV	.395	.40137
21.788	54833	VV	.657	.39853
26.287	248497	VV	2.373	1.80608
27.398	3314392	VB	.444	24.08906

TOTAL AREA=1.3759E+07
MUL FACTOR=1.0000E+00

AR100488

Waiting for System Readiness
RUN # 1047 JUN 21, 1990 07:54:17
START



1248
250 ppb

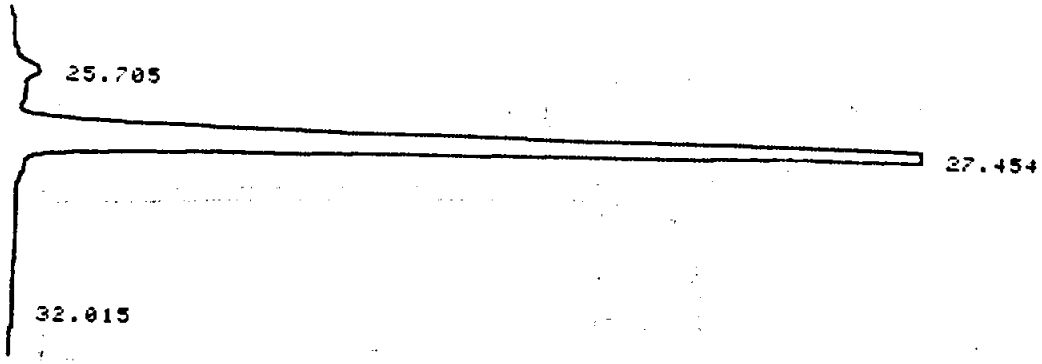
STOP

RUN# 1047 JUN 21, 1990 07:54:17

SAMPLES

AR100482

AR100489



STOP

RUN# 1047 JUN 21, 1990 07:54:17

SAMPLE# 12

AREA%

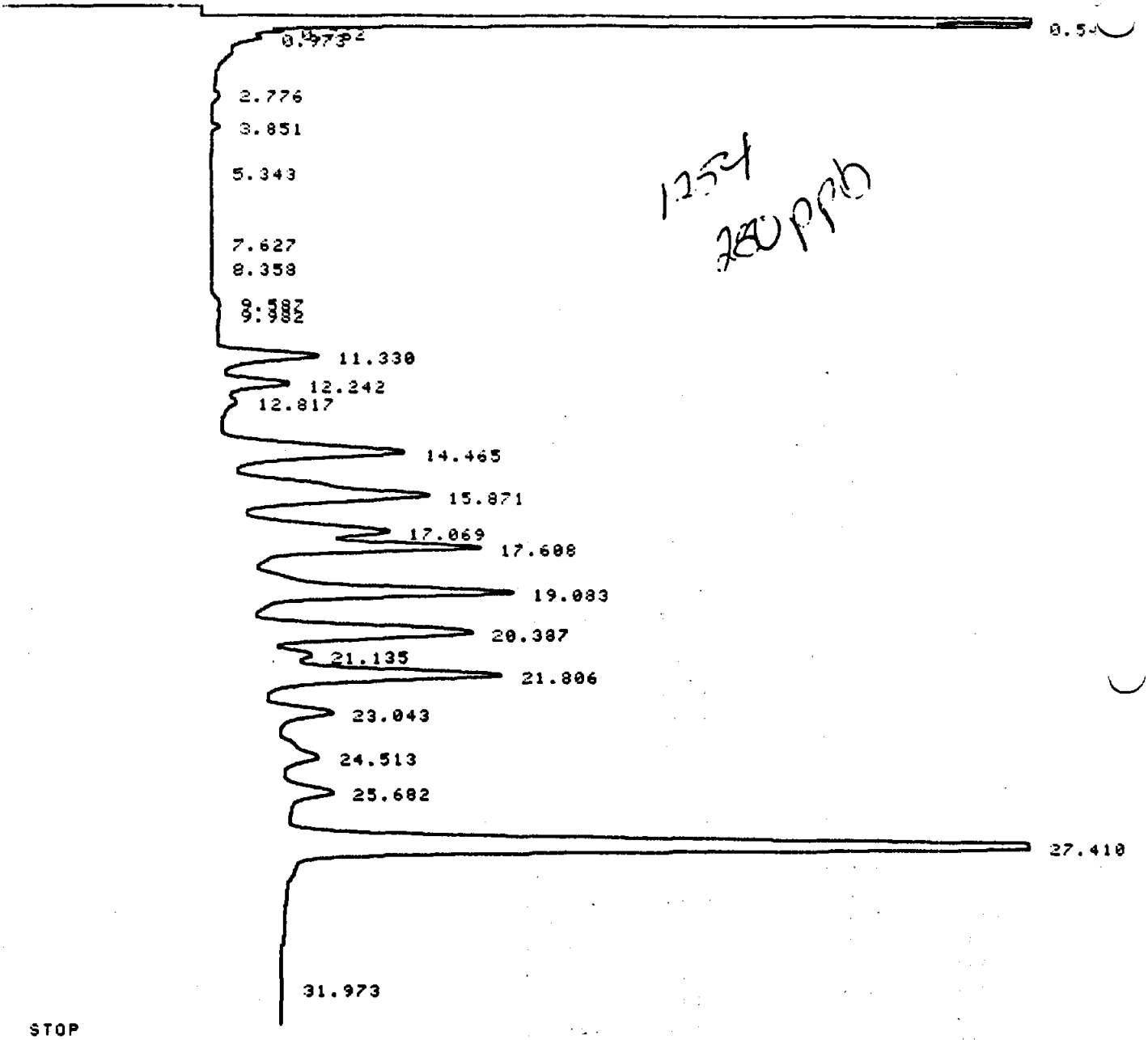
RT	AREA	TYPE	WIDTH	AREA%
.333	5197952	PB	.147	32.16698
1.001	26173	BP	.162	.16197
2.818	10298	BP	.227	.06373
3.906	14903	PV	.202	.09223
5.388	9728	PV	.320	.06020
6.023	16709	VP	.251	.10340
6.726	6058	PP	.258	.03749
7.697	206932	PV	.295	1.28058
8.427	120918	VP	.286	.74829
9.668	734738	PV	.325	4.54685
10.154	424052	VV	.557	2.62420
11.567	821532	VV	.592	5.08396
12.338	615063	VV	.380	3.80625
12.890	562706	VV	.393	3.48225
14.420	1435278	VV	.524	8.88207
15.271	566837	VV	.412	3.50781
15.990	240372	VV	.517	1.48752
17.182	248024	VV	.512	1.53487
17.659	248604	VV	.400	1.53846
19.150	234117	VP	.416	1.44881
20.376	178914	PV	.422	1.10719
21.843	153799	VV	.830	.95177
23.098	50606	VV	.632	.31317
25.705	255155	VV	1.147	1.57900
27.454	3758958	VB	.443	23.26192
32.015	20856 I	PP	.639	.12907

TOTAL AREA=1.6159E+07
MUL FACTOR=1.0000E+00

AR100490

RUN # 1048 JUN 21, 1990 08:31:25

START



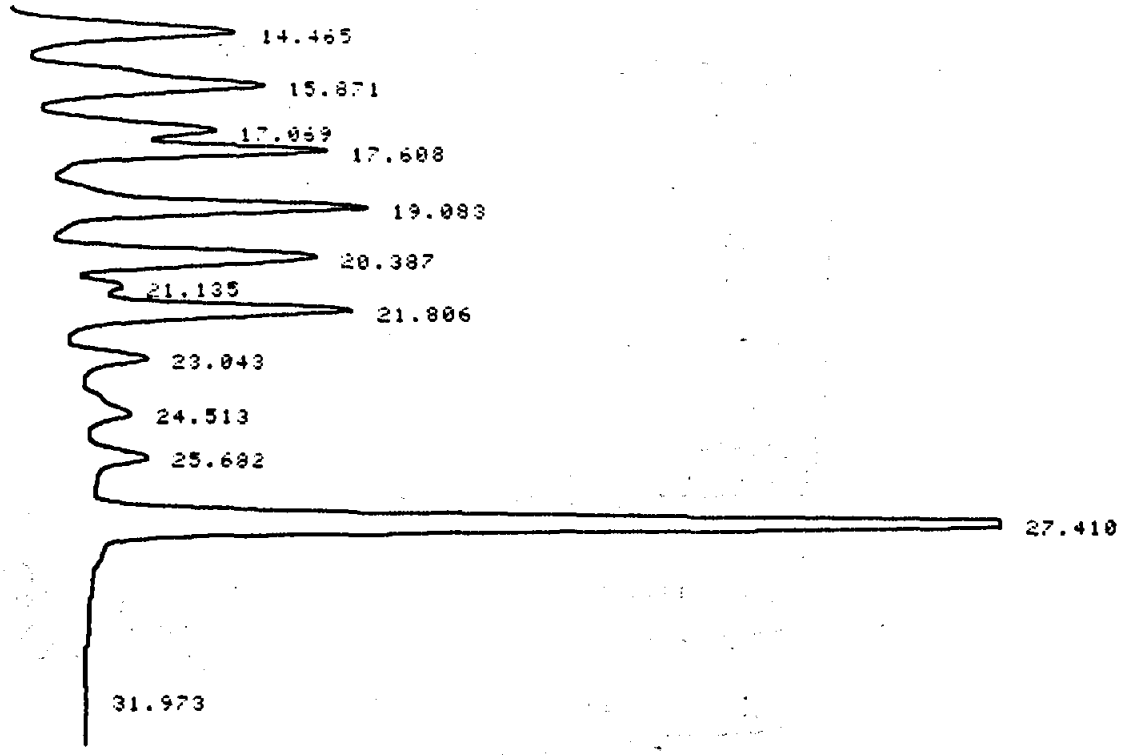
STOP

RUN# 1048 JUN 21, 1990 08:31:25

SAMPLE# 13

AR100491

AR100491



STOP

RUN# 1048 JUN 21, 1990 08:31:25

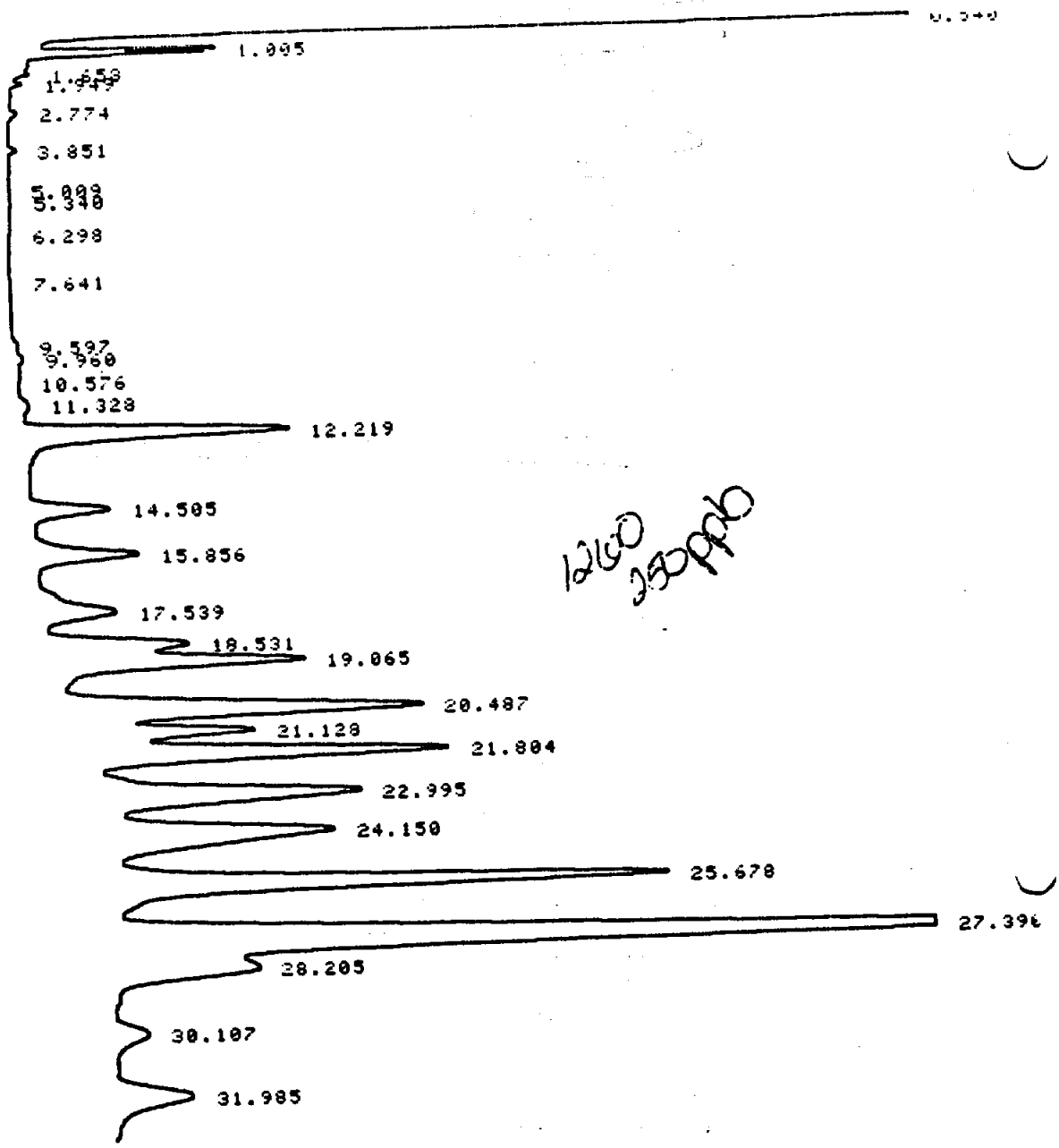
SAMPLE# 13

AREA%

RT	AREA	TYPE	WIDTH	AREA%
.546	333428	BP	.077	2.92822
.762	14302	PP	.083	.12560
.973	13583	PP	.122	.11929
2.776	18620	BP	.289	.16352
3.851	17806	PP	.197	.15638
5.343	6392	VP	.237	.05614
7.627	5712	VB	.253	.05016
9.587	22747	PV	.360	.19977
9.982	19850	VB	.356	.17433
11.330	327829	BV	.386	2.87904
12.242	211050	VV	.356	1.85347
12.817	61470	VP	.408	.53984
14.465	756497	PV	.506	6.64368
15.871	995619	VV	.607	9.74368
17.069	604010	VV	.479	5.30451
17.608	834663	VV	.417	7.33014
19.083	1067197	VV	.481	9.37229
20.387	899665	VV	.495	7.90100
21.135	170571	VV	.376	1.49798
21.806	917386	VV	.458	8.05663
23.043	251129	VV	.457	2.20545
24.513	253922	VV	.681	2.22998
25.682	233382	VV	.530	2.04960
27.410	3331202	VB	.449	29.25514
31.973	18692	I PP	.629	.16416

TOTAL AREA=1.1387E+07
MUL FACTOR=1.0000E+00

AR100492



STOP

RUN# 1049 JUN 21, 1990 09:08:35

SAMPLE# 14

AREA%

RT	AREA	TYPE	WIDTH	AREA%
1.005	231683	PP	.170	1.02698
1.658	9144	VP	.110	.04053
2.774	16184	BV	.199	.07174
3.851	15210	PV	.203	.06742
5.009	6285	PV	.230	.02786
5.340	9215	VV	.269	.04085
9.597	11301	PV	.305	.05009
9.960	19723	VV	.330	.08743
10.576	5302	VP	.313	.02350
11.328	22902	PV	.354	.10152
12.219	756052	VB	.381	3.35133
14.505	232587	BV	.380	1.03098
15.856	378824	VV	.463	1.67920
17.539	414083	VV	.648	1.83550
[illegible]	513049	VV	.437	2.27418

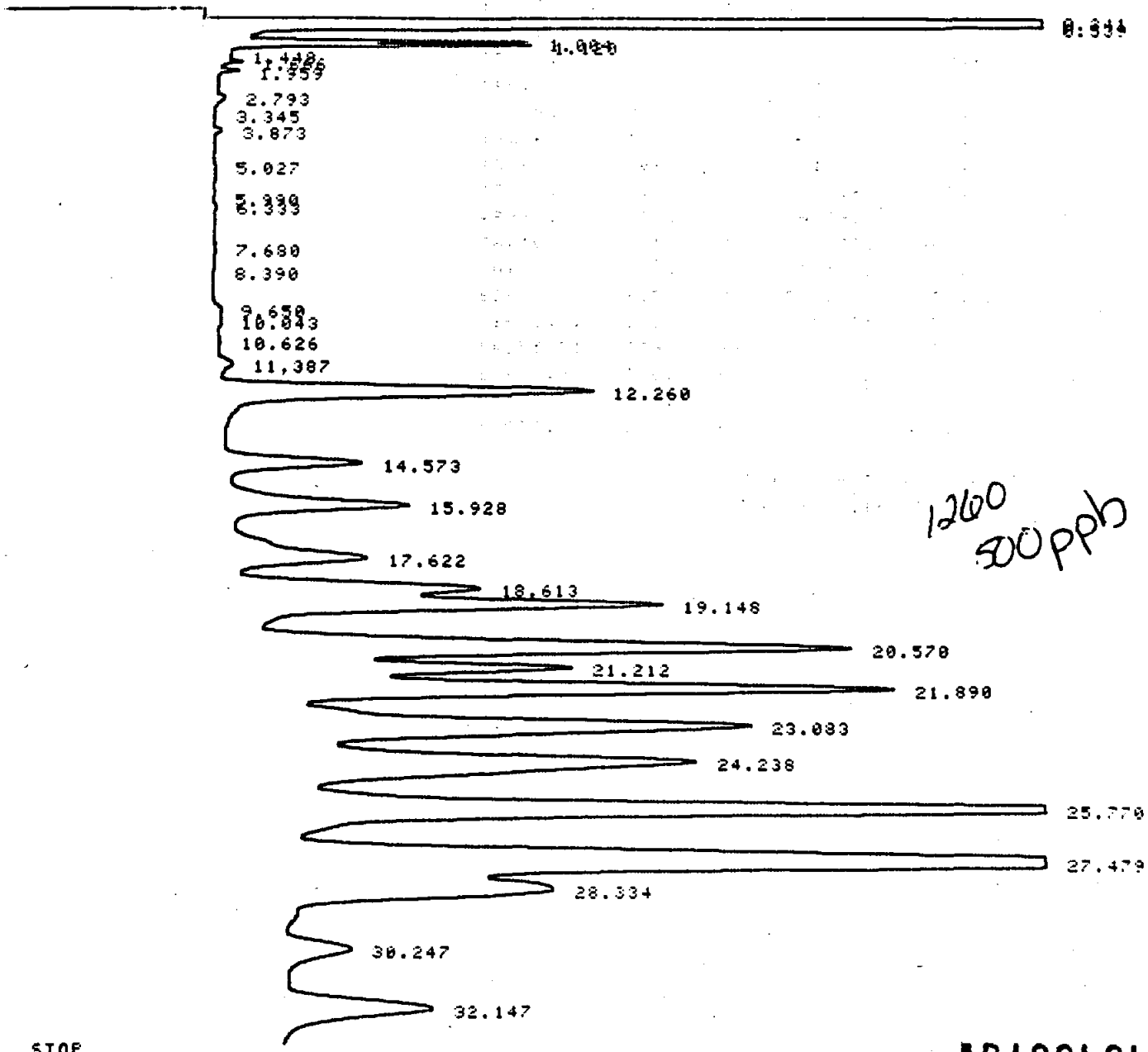
AR100

AR100493

21.204	1490011	VV	.476	6.60474
22.995	1666359	VV	.679	7.38643
24.150	1801438	VV	.305	7.98519
25.678	2749669	VV	.530	12.18839
27.390	4997875	VV	.577	22.15396
28.205	1532506	VV	.938	6.79310
30.107	1009417	VV	1.289	4.47442
31.985	1484312	I VH	1.344	6.57948

TOTAL AREA=2.2560E+07
MUL FACTOR=1.0000E+00

RUN # 1050 JUN 21, 1990 09:45:49
START



1260
500 ppb

STOP

AR100494

RUN# 1050 JUN 21, 1990 09:45:49

SAMPLE# 15

.539	379429	VP	.071	1.03410
1.004	187574	PV	.080	.51122
1.120	215913	VP	.089	.58845
1.666	17335	VP	.107	.04725
1.959	16385	PB	.099	.04466
2.793	20704	BV	.227	.05643
3.873	16199	PV	.199	.04415
5.027	10678	PV	.251	.02910
5.990	5684	VV	.257	.01549
6.333	9388	VV	.223	.02559
7.680	9875	PP	.289	.02691
8.390	5944	PB	.273	.01620
9.650	21737	PV	.333	.05924
10.043	18970	VV	.332	.05170
10.626	11830	VP	.340	.03224
11.387	37080	PP	.329	.10106
12.260	1217956	PB	.401	3.31944
14.573	430660	BV	.379	1.17373
15.928	710512	VV	.468	1.93644
17.622	741599	VV	.630	2.02116
18.613	906655	VV	.431	2.47101
19.148	1668190	VV	.463	4.54651
20.570	2616376	VV	.507	7.13071
21.212	1162004	VV	.407	3.16694
21.890	2573870	VV	.467	7.01487
23.083	2821982	VV	.652	7.69108
24.238	2968093	VV	.766	8.08928
25.770	4538432	VV	.532	12.36911
27.479	5706800	VV	.628	15.55340
28.334	2360677	VV	.873	6.43382
30.247	1177138	VV	1.128	3.20819
32.147	1747313 I	VH	1.022	4.76215

TOTAL AREA=3.6692E+07
MUL FACTOR=1.0000E+00

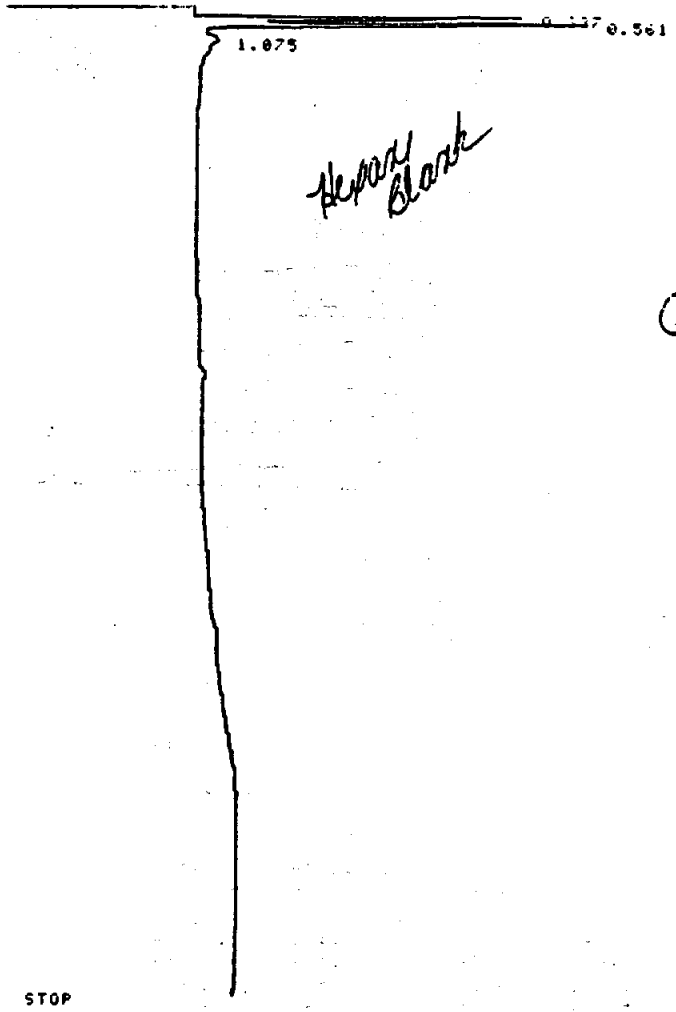
AR100495

STOP
ABORTED

Data run
6-25-90 - 6-26-90
integrator was turned off
to save the paper.

+ SEQ START

Waiting for System Readiness
RUN # 4 JAN 1, 1901 07:30:23
START



Heavy blank

contamination
check

STOP

RUN# 4 JAN 1, 1901 07:30:23

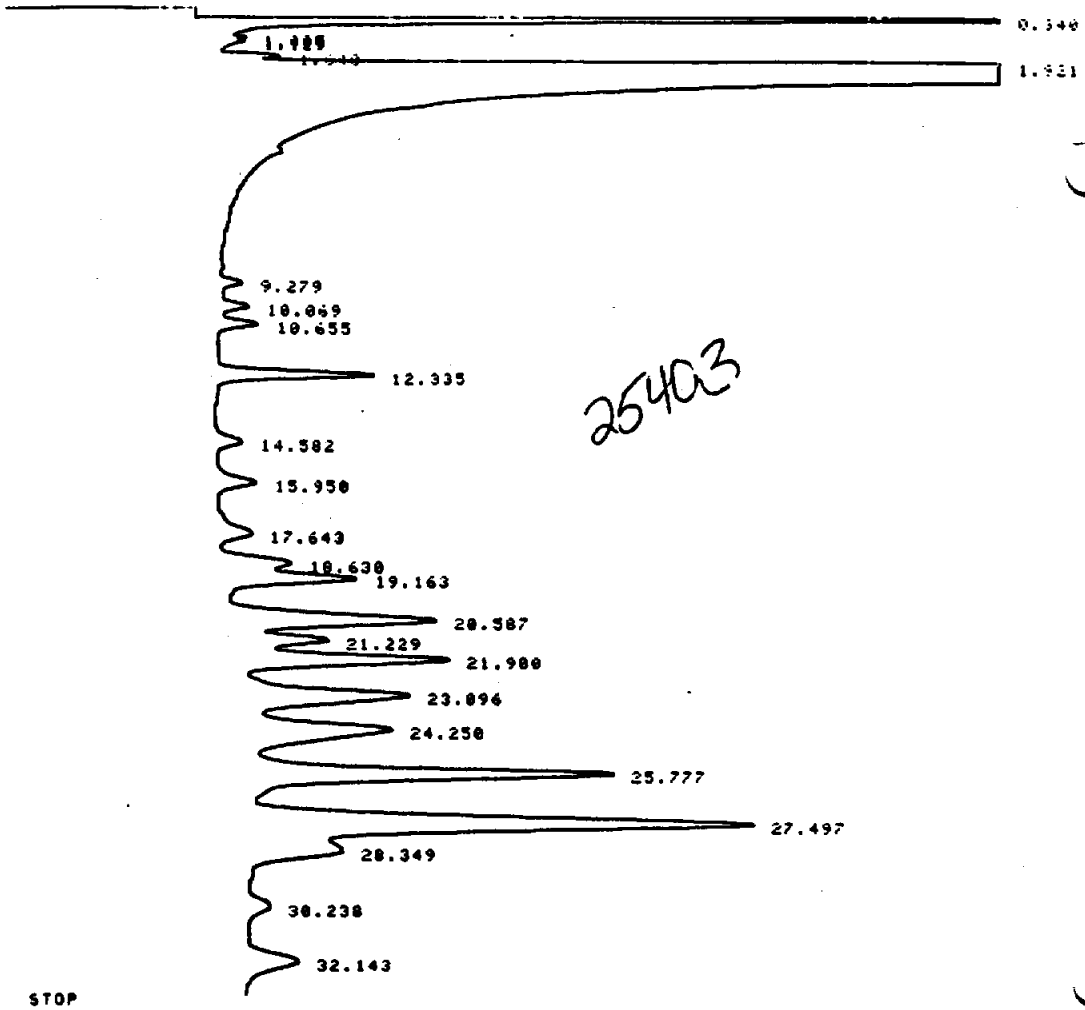
SAMPLE# 1

AREA%

RT	AREA	TYPE	WIDTH	AREA%
.337	532587	BV	.094	37.11530
.561	802666	VB	.120	55.93677
1.075	99700	BP	.396	6.94796

TOTAL APEA=1434953

AR100496



25403

STOP

RUN# 5 JAN 1, 1901 00:06:43

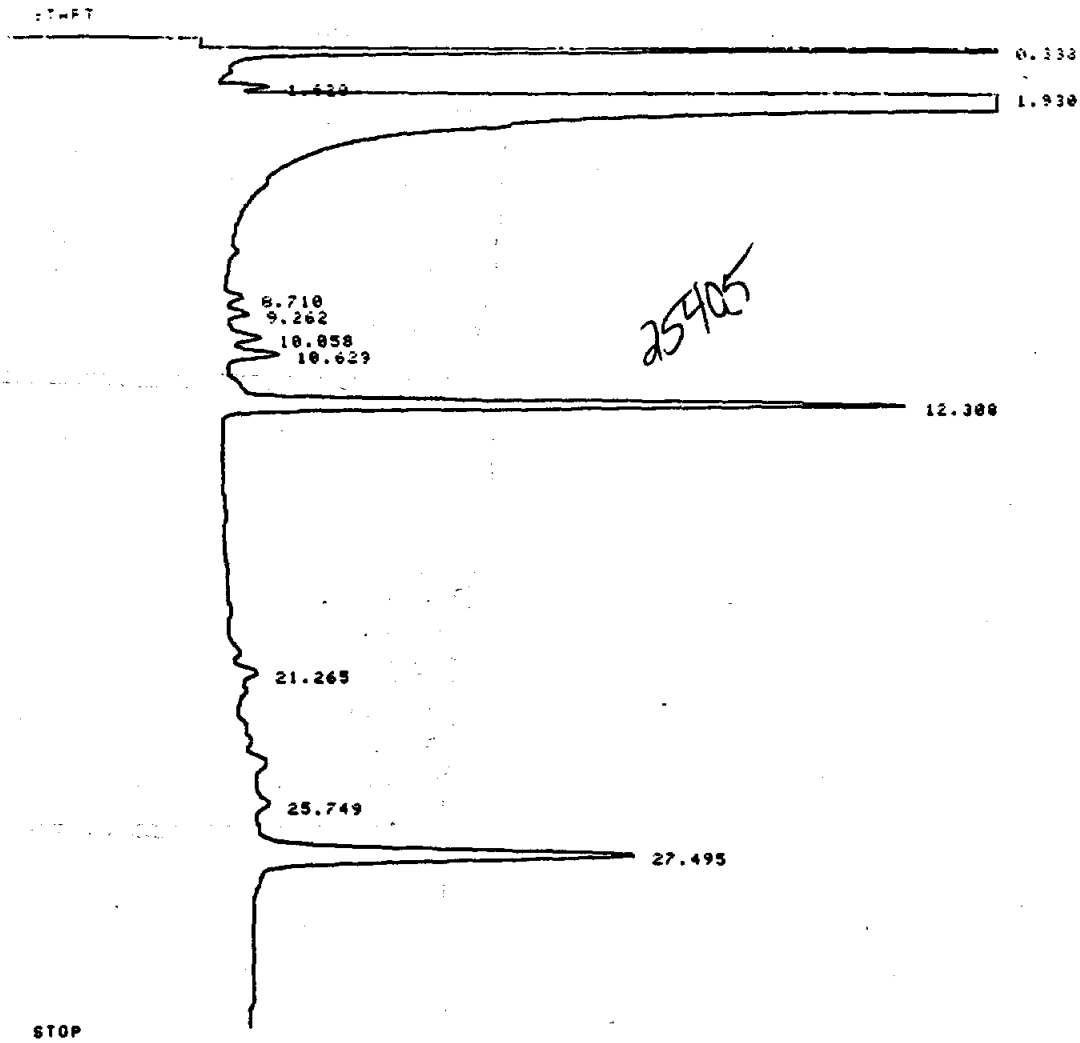
SAMPLE# 2

AREA%

RT	AREA	TYPE	WIDTH	AREA%
.340	3800510	PB	.097	7.60029
1.005	18280	BV	.072	.03656
1.135	38823	VP	.133	.07764
1.640	164264	PV	.188	.32850
1.921	26190288	VB	.521	52.37555
9.279	108758	BV	.271	.21750
10.069	183969	VV	.343	.36790
10.655	201962	VB	.289	.40389
12.335	764367	PB	.287	1.52859
14.582	152375	BB	.347	.30472
15.950	214044	BB	.346	.42805
17.643	206216	BP	.400	.41239
18.630	467870	PV	.401	.93565
19.163	914122	VB	.400	1.82807
20.587	1614259	BV	.460	3.22821
21.229	615732	VV	.302	1.23135
21.980	1545981	VV	.424	3.09167
23.096	1642023	VV	.578	3.28373
24.250	1637060	VV	.652	3.27381
[illegible]	[illegible]	VB	.451	[illegible]

AR100[illegible]

AR100497



STOP

RUN# 6 JAN 1, 1901 08:43:04

SAMPLE# 3

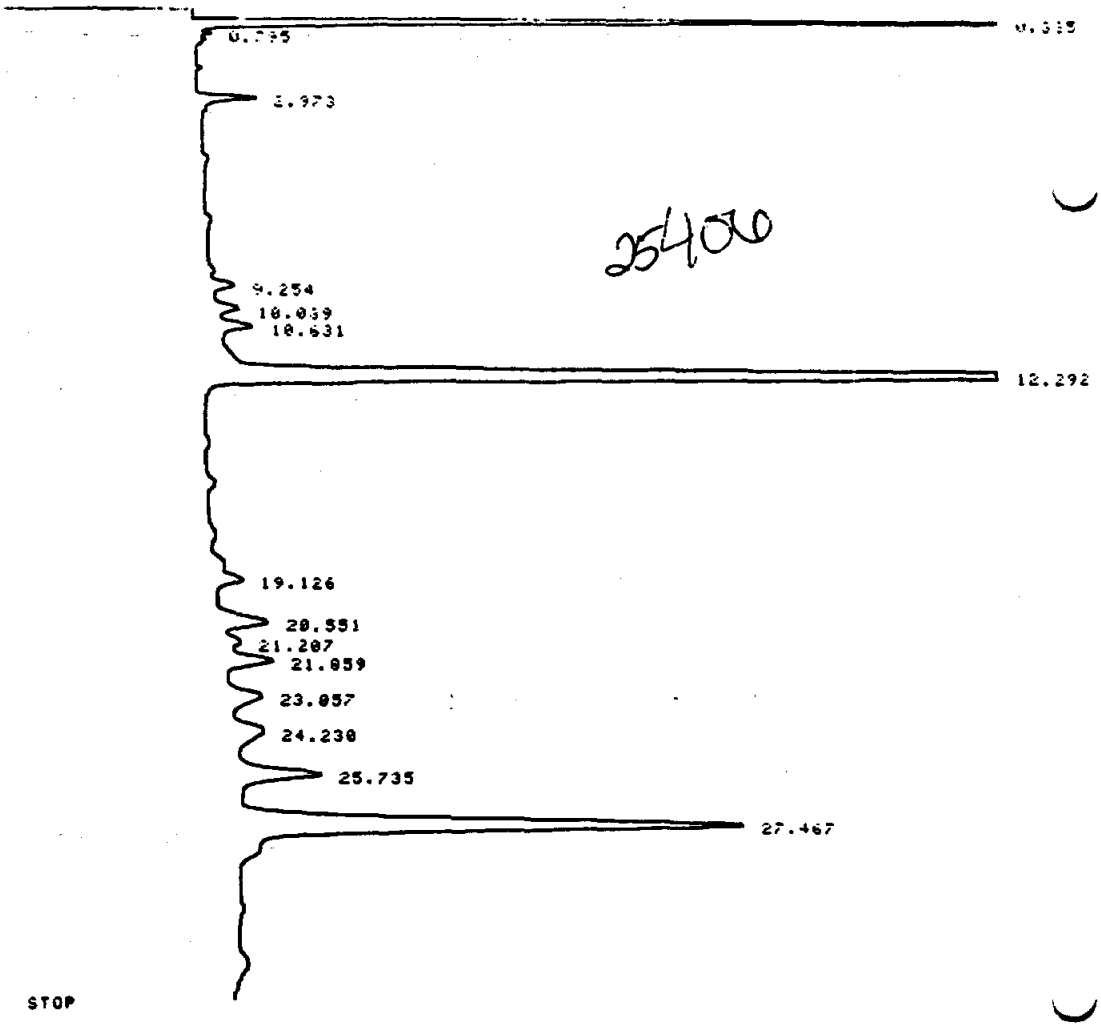
AREA%

PT	AREA	TYPE	WIDTH	AREA%
.338	3069182	PB	.090	9.68668
1.620	127169	PV	.179	.40136
1.930	20912368	VB	.427	66.00173
8.710	88228	BV	.281	.27946
9.262	105520	VV	.267	.33303
10.058	209937	VV	.346	.66258
10.629	270587	VB	.305	.85400
12.308	3745798	BB	.316	11.82215
21.265	158500	BV	.407	.50024
25.749	59926	BB	.302	.18913
27.495	2937366	BB	.453	9.27066

TOTAL AREA=3.1685E+07
MUL FACTOR=1.0000E+00

RUN # 7 JAN 1, 1901 09:19:28
START

AR100498



RUN# 7 JAN 1, 1901 09:19:28

SAMPLE# 4

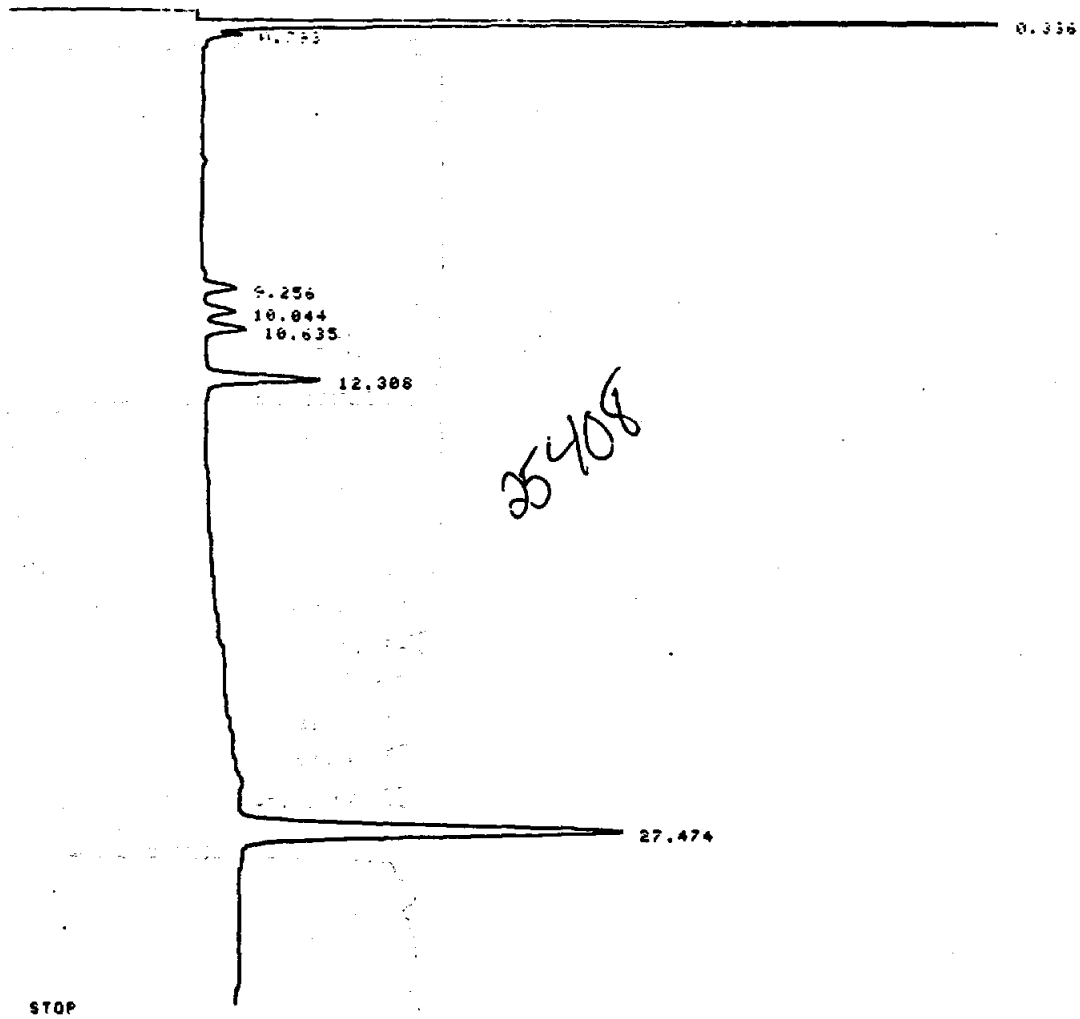
AREA%

RT	AREA	TYPE	WIDTH	AREA%
.335	2263518	PV	.125	14.25770
.795	25212	VV	.111	.15881
2.973	223704	BB	.223	1.40909
9.254	93711	BB	.256	.59028
10.039	106287	BV	.277	.66949
10.631	153700	VB	.282	.96814
12.292	6956400	BB	.314	43.81776
19.126	117572	BB	.297	.74058
20.551	364272	PV	.437	2.29452
21.207	131345	VV	.383	.82733
21.859	325798	VB	.397	2.05217
23.057	270637	BV	.488	1.70472
24.230	333165	VV	.622	2.09858
25.735	620490	VB	.442	3.90841
27.467	3889942	BB	.460	24.50241

TOTAL AREA=1.5876E+07
MUL FACTOR=1.0000E+00

AR100499

RUN # 8 JAN 1, 1901 09:55:55
START



35408

STOP

RUN# 8 JAN 1, 1901 09:55:55

SAMPLE# 5

AREA%

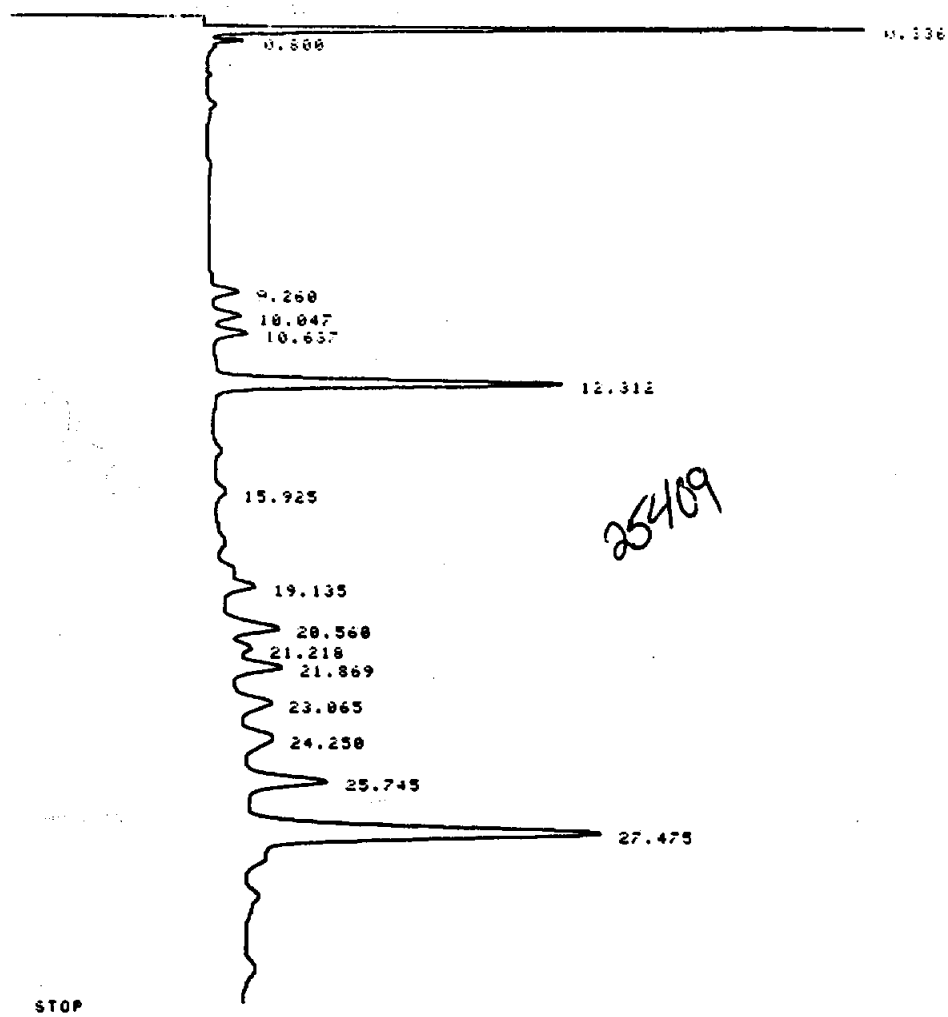
RT	AREA	TYPE	WIDTH	AREA%
.336	2545414	PV	.134	36.43530
.793	130062	VB	.178	1.96391
9.256	145333	BB	.262	2.19450
10.044	145632	BV	.278	2.19902
10.635	205126	VB	.286	3.09736
12.308	550336	BB	.285	8.30998
27.474	2900693	BB	.440	43.79992

TOTAL AREA=6622595
MUL FACTOR=1.0000E+06

RUN # 9 JAN 1, 1901 10:32:22
START

AR100500

RUN # 9 JAN 1, 1901 10:32:22
START



25409

STOP

RUN# 9 JAN 1, 1901 10:32:22

SAMPLE# 6

AREA%

RT	AREA	TYPE	WIDTH	AREA%
.336	1435503	PV	.125	16.24916
.600	83242	VV	.122	.94226
9.260	118713	PB	.259	1.34377
10.047	131631	BV	.281	1.49000
10.637	162530	VB	.283	1.83976
12.312	1691199	BB	.284	19.14352
15.925	63826	BB	.347	.72240
19.135	116268	BB	.265	1.31609
20.560	400328	BV	.440	4.53151
21.218	158636	VV	.392	1.79568
21.869	366513	VV	.416	4.14874
23.065	339913	VV	.532	3.84764
24.250	385593	VV	.638	4.36472
25.745	631862	VB	.446	7.15236
27.475	2748565	BB	.465	31.11235

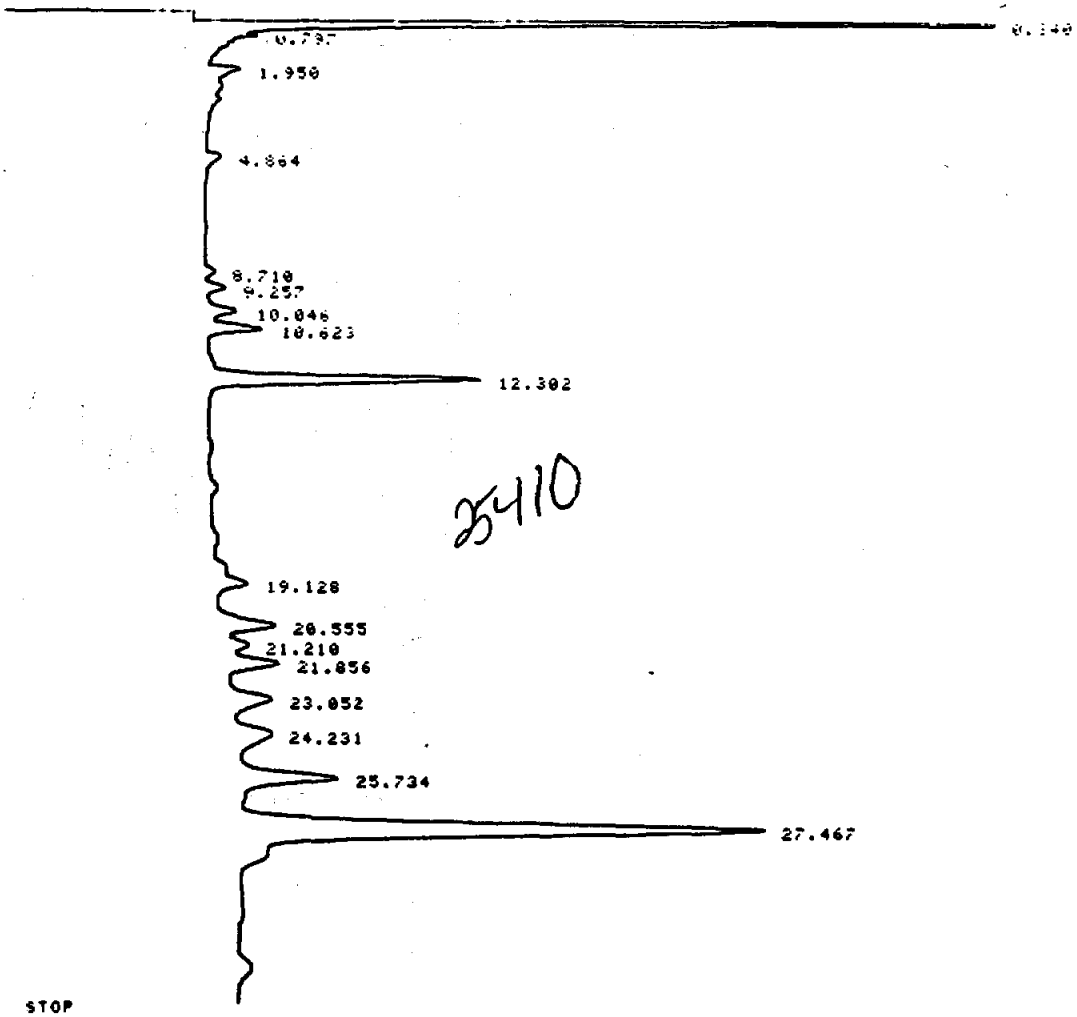
TOTAL AREA=0.8343E+06
MUL FACTOR=1.0000E+00

AR100501

AR100501

RUN # 10 JAN 1, 1901 11:08:51.

START



STOP

RUN# 10 JAN 1, 1901 11:08:51

SAMPLE# 7

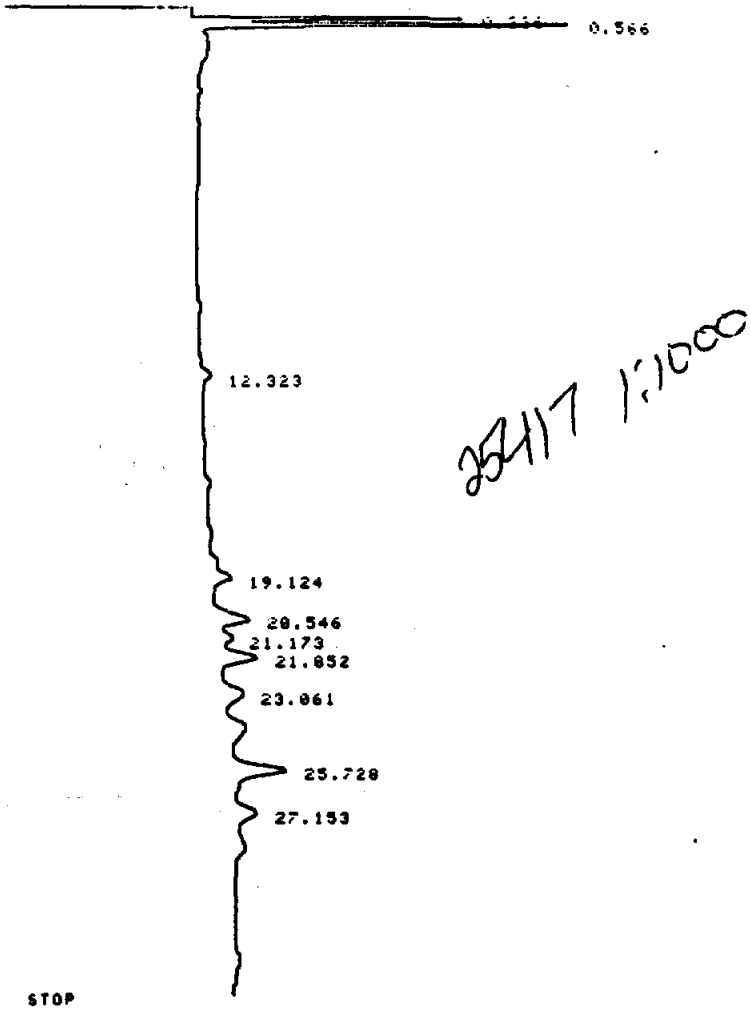
AREA%

RT	AREA	TYPE	WIDTH	AREA%
.340	4404842	PB	.083	33.87536
.797	17376	BB	.070	.13363
1.950	123695	BB	.246	.95127
4.864	84620	BB	.308	.65077
8.710	41071	PP	.252	.31586
9.257	69758	PB	.228	.53647
10.046	134711	BV	.292	1.03599
10.623	271634	VB	.291	2.08900
12.302	1306221	BB	.282	10.04547
19.128	123677	BB	.294	.95114
20.555	403401	PV	.433	3.10235
21.210	163180	VV	.383	1.25493
21.856	350658	VB	.394	2.69673
23.052	325296	BV	.479	2.50168
24.231	384868	VV	.600	2.95982
25.734	725707	VB	.433	5.58104
27.467	4072368	PB	.462	31.31848

TOTAL AREA=1.3003E+07

AR100502

RUN # 11 JAN 1, 1901 11:45:23
START



25417 1:1000

STOP

RUN# 11 JAN 1, 1901 11:45:23

SAMPLE# 8

AREA%

RT	AREA	TYPE	WIDTH	AREA%
.336	454811	PV	.098	17.23698
.566	729788	VB	.114	27.65840
12.323	58136	BB	.343	2.20331
19.124	83637	PB	.304	3.16978
20.546	255678	BV	.432	9.69000
21.173	107690	VV	.385	4.08137
21.852	265151	VP	.409	10.04902
23.061	174817	PB	.496	6.62543
25.728	377343	BB	.426	14.30100
27.153	131526	BB	.395	4.98473

TOTAL AREA=2638578
MUL FACTOR=1.0000E+00

RUN # 12 JAN 1, 1901 12:21:56
START

AR100503

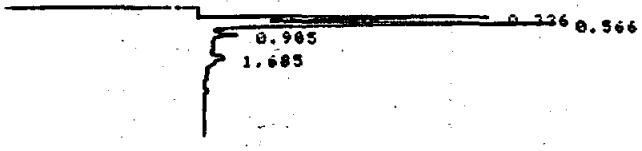
SAMPLE# 9

AREA%

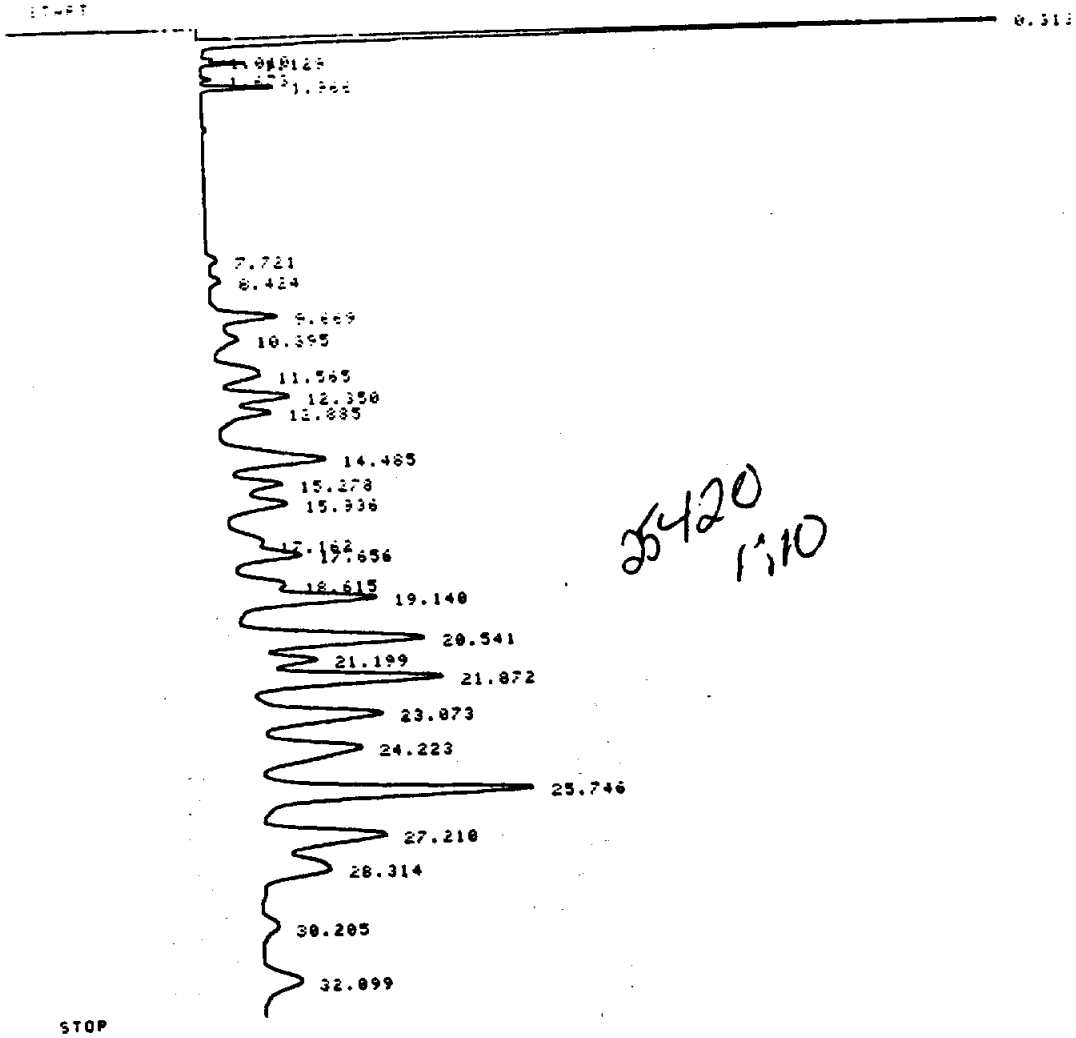
RT	AREA	TYPE	WIDTH	AREA%
.313	2002866	PB	.124	10.77310
1.010	14600	BV	.071	.07853
1.129	64320	VB	.082	.34597
1.673	19432	PV	.100	.10452
1.966	135833	VB	.106	.73062
7.721	55086	PV	.294	.29630
8.424	73367	VB	.319	.39463
9.669	269373	BB	.273	1.44891
10.395	73476	BP	.286	.39522
11.565	417032	PV	.538	2.24315
12.350	464364	VV	.369	2.49774
12.885	346092	VP	.377	1.86157
14.485	949513	PV	.524	5.10728
15.270	410361	VV	.403	2.20727
15.936	494047	VP	.460	2.66170
17.162	249337	PV	.414	1.34114
17.656	525813	VV	.431	2.82826
18.615	349103	VV	.398	1.87777
19.140	1019181	VP	.417	5.48201
20.541	1517470	PV	.479	8.16223
21.199	473912	VV	.379	2.54918
21.872	1456020	VV	.428	7.83170
23.073	1246082	VV	.550	6.70678
24.223	1220731	VV	.659	6.56612
25.746	2049519	VB	.436	11.02404
27.218	1233330	BV	.573	6.63389
28.314	862643	VP	.729	4.64002
30.205	162817	PB	.553	.87577
32.099	434053	BP	.648	2.33470

TOTAL AREA=1.8591E+07
MUL FACTOR=1.0000E+00

RUN # 13 JAN 1, 1901 12:58:31
START



AR100504



5420
1,10

RUN# 13 JAN 1, 1901 12:21:56

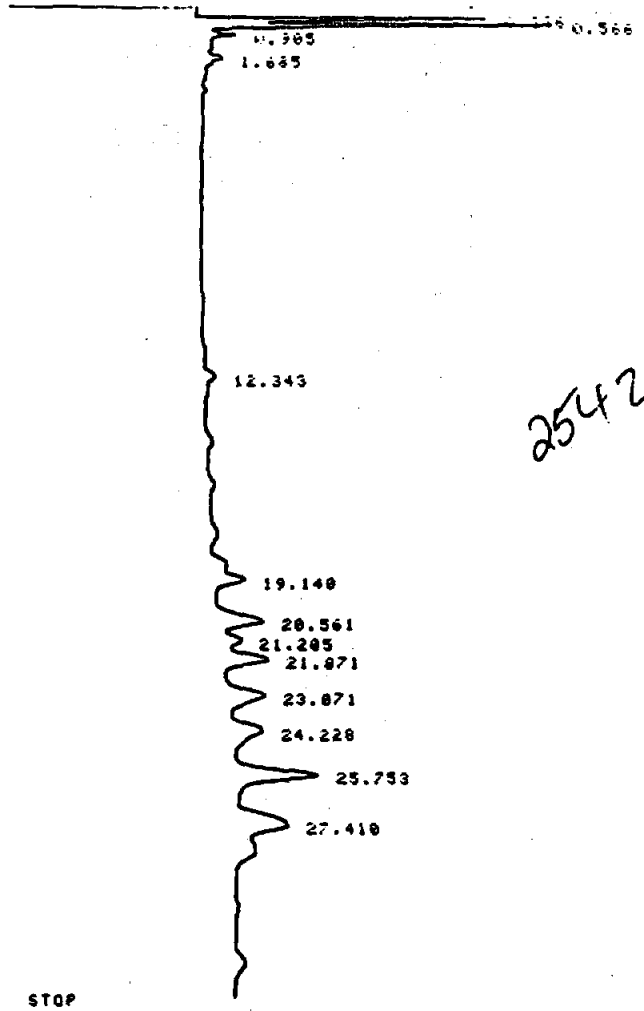
SAMPLE# 9

AREA% PT	AREA	TYPE	WIDTH	AREA%
.313	2002866	PB	.124	10.77310
1.010	14600	BV	.071	.07853
1.129	64320	VB	.082	.34597
1.673	19432	PV	.100	.10452
1.966	135833	VB	.106	.73062
7.721	55006	PV	.294	.29630
8.424	73367	VB	.319	.39463
9.669	269373	BB	.273	1.44891
10.395	73476	BP	.286	.39522
11.565	417032	PV	.538	2.24315
12.350	464364	VV	.369	2.49774
12.885	346092	VP	.377	1.86157
14.485	949513	PV	.524	5.10728
15.278	410361	VV	.403	2.20727
15.936	494847	VP	.460	2.66170
17.162	249337	PV	.414	1.34114
17.656	525813	VV	.431	2.82826
18.615	349103	VV	.398	1.87777
19.140	1019181	VP	.417	5.48201
20.541	1517470	PV	.479	8.16223
21.199	473912	VV	.379	2.54910
21.872	1456020	VV	.428	7.83170

AR100505

AR100505

START



25422
1:10

STOP

RUN# 13 JAN 1, 1901 12:58:31

SAMPLE# 10

AREA%

RT	AREA	TYPE	WIDTH	AREA%
.336	504507	PV	.101	12.32605
.566	717851	VV	.117	17.53846
.905	65623	VB	.131	1.60329
1.685	60995	PB	.234	1.49022
12.343	55640	PB	.305	1.35939
19.140	106072	BB	.259	2.59154
20.561	348535	BV	.445	8.51537
21.205	148097	VV	.382	3.61829
21.871	327471	VV	.410	8.00073
23.071	349063	VV	.519	8.52827
24.228	346317	VV	.595	8.46117
25.753	632101	VB	.441	15.44341
27.410	430741	BB	.579	10.52381

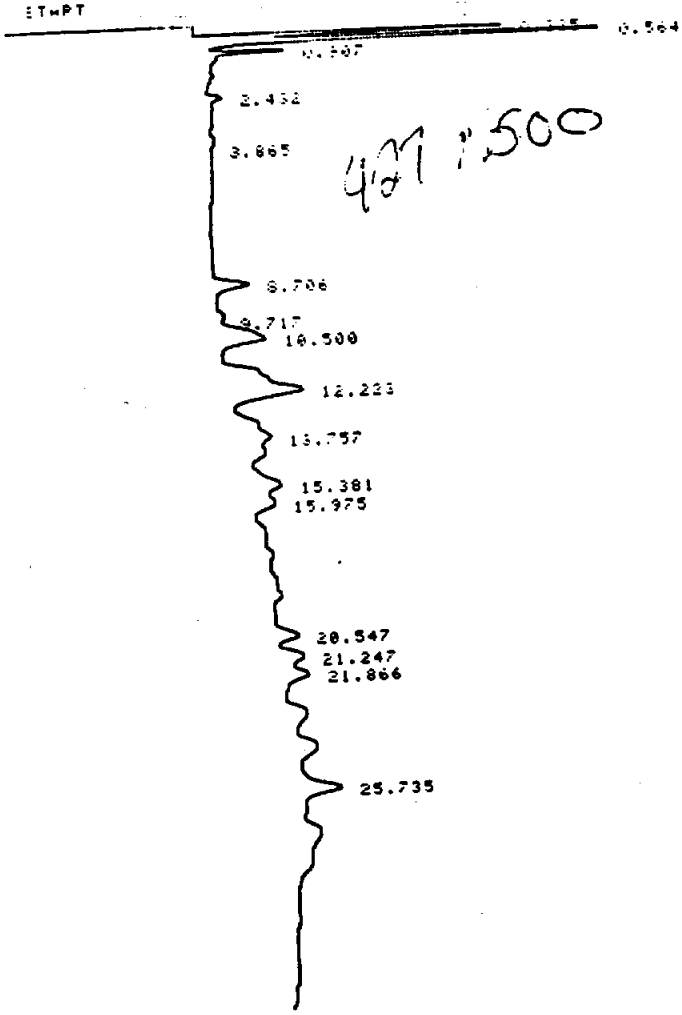
TOTAL AREA=4093013
MUL FACTOR=1.0000E+00

RUN # 14 JAN 1, 1901 13:35:08
START

AR100506

RUN # 15 JAN 1 1901 14111146

ETHPT



STOP

RUN# 15 JAN 1, 1901 14111146

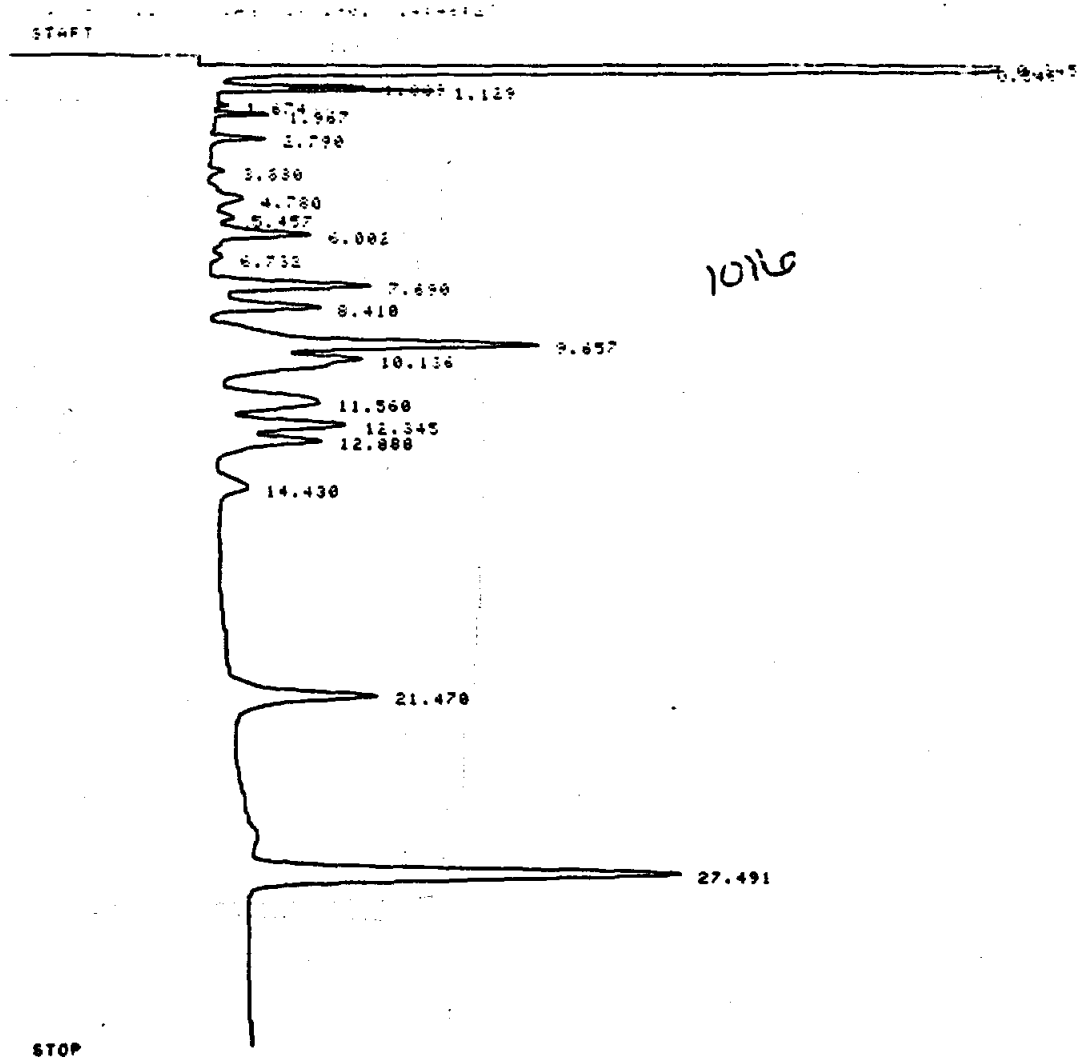
SAMPLE# 12

AREA% RT	APEA	TYPE	WIDTH	AREA%
.335	519899	PV	.098	10.57318
.564	834637	VV	.121	16.97402
.907	107878	VB	.085	2.19392
2.432	50826	PV	.200	1.03369
3.865	32248	PB	.276	.65583
8.706	178274	PB	.299	3.62556
9.717	18251	PB	.204	.37117
10.500	371450	BP	.485	7.55418
12.223	988668	PV	.763	20.10654
13.757	441182	VV	.763	8.97231
15.381	376490	VV	.628	7.65668
15.975	215085	VB	.486	4.37418
20.547	132999	BP	.357	2.70480
21.247	183597	PV	.428	3.73381
21.866	217223	VB	.460	4.41766
25.735	248438	BB	.396	5.05248

TOTAL APEA=4917146

AR1005

AR100507



1016

RUN# 16 JAN 1, 1901 14:48:27

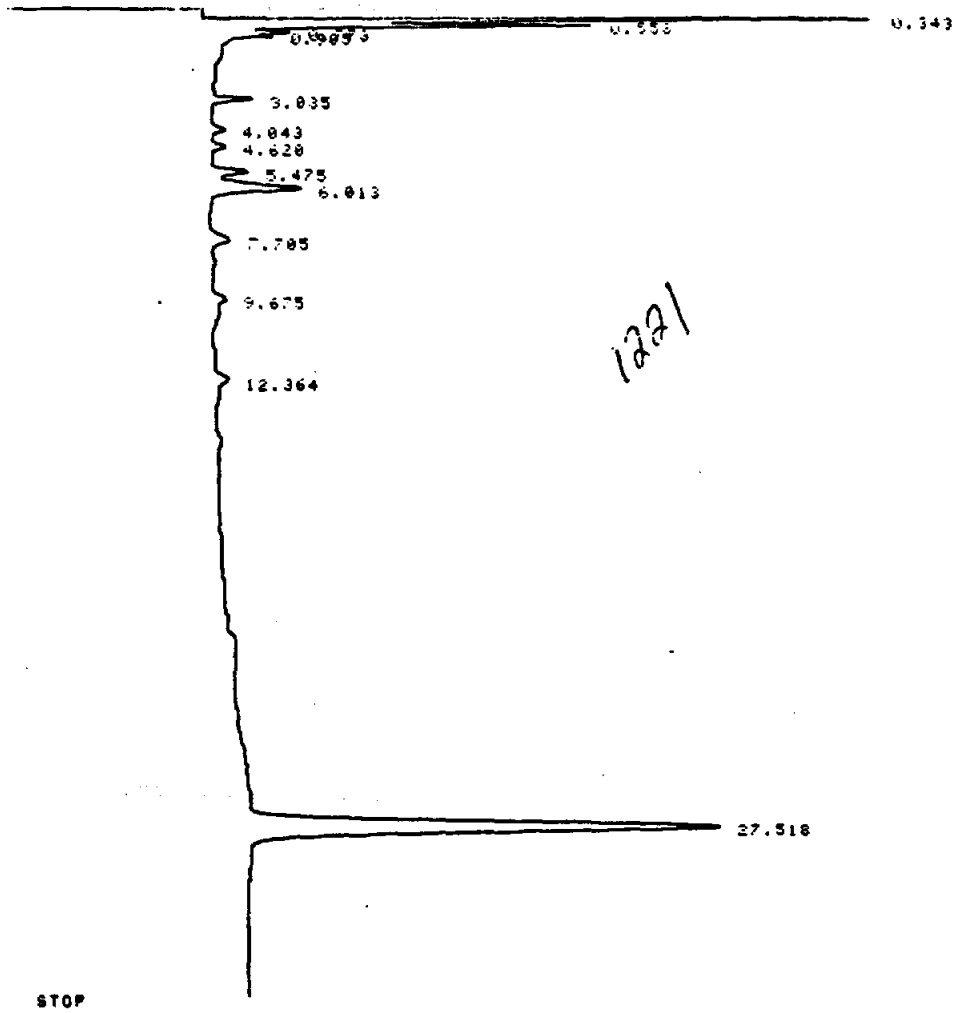
SAMPLE# 13

AREA%

RT	AREA	TYPE	WIDTH	AREA%
.345	4581651	FV	.159	32.69199
.546	1176432	VV	.088	5.83653
1.009	225612	VV	.085	1.11741
1.129	350929	VB	.092	1.73808
1.674	21208	BF	.099	.10504
1.967	98079	FS	.103	.48577
2.790	150334	SB	.159	.74457
3.880	49433	BF	.184	.24483
4.780	272891	FV	.445	1.35157
5.457	140235	VV	.313	.69456
6.002	547659	VV	.309	2.71244
6.732	60767	VB	.264	.30097
7.690	846285	BV	.303	4.19148
8.410	593070	VB	.309	2.93736
9.657	2224454	FV	.393	11.01727
10.136	1426053	VV	.547	7.06295
11.560	1092454	VV	.590	5.41078
12.345	885590	VV	.386	4.38615
12.888	734106	VV	.396	3.63588
14.430	331378	VB	.596	1.64125
21.470	1128542	FB	.450	5.58944
27.491	3251453	BE	.437	16.10378

AR100508

RUN # 17 JAN 1, 1901 15:25:08
START



1271

STOP

RUN# 17 JAN 1, 1901 15:25:08

SAMPLE# 14

AREA%

RT	AREA	TYPE	WIDTH	AREA%
.343	1169144	PV	.101	16.88392
.558	867446	VV	.131	12.52702
.773	175120	VV	.129	2.52895
.905	135140	VB	.133	1.95159
3.035	113586	VB	.155	1.64033
4.043	50697	PB	.219	.73213
4.620	46222	BP	.203	.66750
5.475	139781	PV	.223	2.01861
6.013	457954	VB	.292	6.61343
7.705	103114	BB	.320	1.48910
9.675	44408	BB	.241	.64131
12.364	58766	BB	.305	.84866
27.518	3563224	BB	.439	51.45746

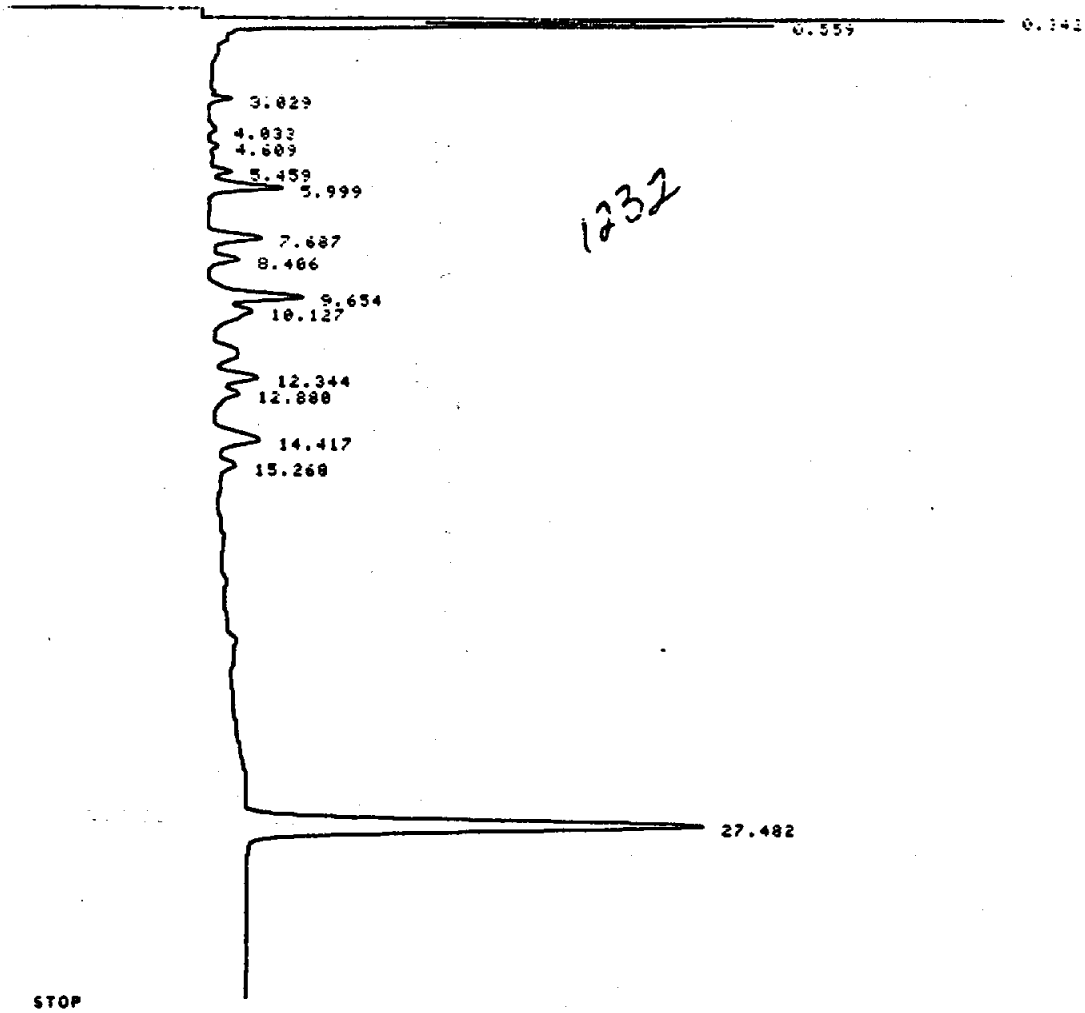
TOTAL AREA=6924602
MUL FACTOR=1.0000E+00

RUN # 18 JAN 1, 1901 16:01:51
START

AR100509

AR100509

RUN # 18 JAN 1. 1901 16:01:51
START



1232

STOP

RUN# 18 JAN 1. 1901 16:01:51

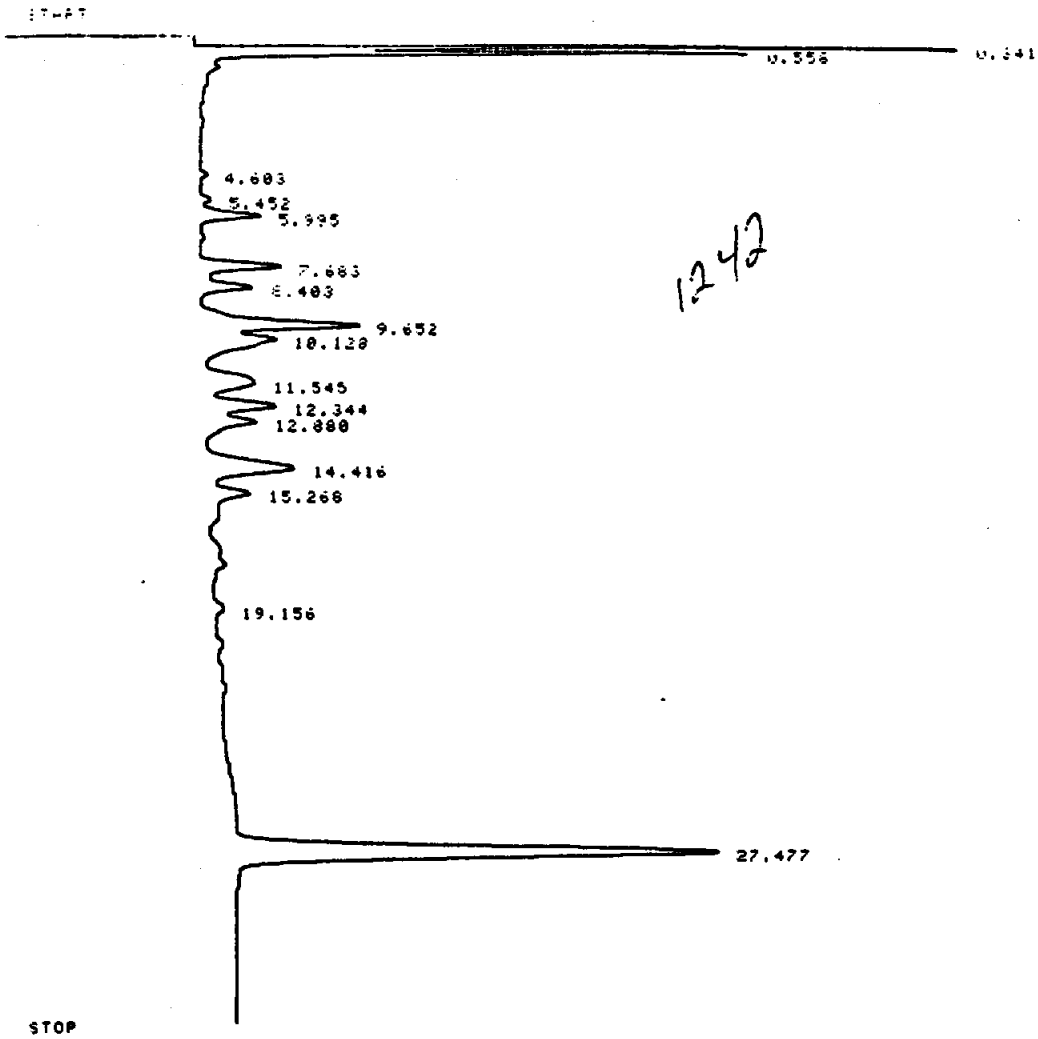
SAMPLE# 15

AREA%

RT	AREA	TYPE	WIDTH	AREA%
.342	1359989	PV	.096	15.52299
.559	1233202	VB	.128	14.07584
3.029	63308	VB	.159	.72260
4.033	39712	PP	.266	.45328
4.609	32086	PV	.196	.36532
5.459	76718	BV	.212	.87566
5.999	335183	VB	.278	3.82580
7.687	287255	BV	.313	3.27875
8.406	149306	VB	.291	1.70419
9.654	550580	BV	.346	6.28435
10.127	343069	VB	.483	3.91581
12.344	241801	BV	.347	2.75993
12.880	136136	VB	.341	1.55386
14.417	347377	BV	.468	3.96498
15.268	97085	VB	.328	1.10722
27.482	3468482	BB	.438	39.58944

TOTAL AREA=8.7611E+06
MUL FACTOR=1.0000E+00

AR100510



STOP

RUN# 19 JAN 1, 1901 16:38:37

SAMPLE# 16

AREA%

RT	AREA	TYPE	WIDTH	AREA%
.341	1176176	PV	.089	10.74794
.558	1178754	VB	.125	10.77150
4.603	25063	PB	.192	.22903
5.452	40334	PV	.215	.36857
5.995	275748	VB	.269	2.51980
7.683	427112	BV	.306	3.90296
8.403	271260	VB	.304	2.47878
9.652	957567	BV	.354	8.75028
10.120	644787	VV	.513	5.89209
11.545	507743	VV	.562	4.63977
12.344	463725	VV	.382	4.23754
12.880	337403	VP	.389	3.08393
14.416	705409	PV	.490	6.44605
15.268	202111	VB	.336	1.84698
19.156	78276	BB	.397	.71529
27.477	3651722	BB	.439	33.36957

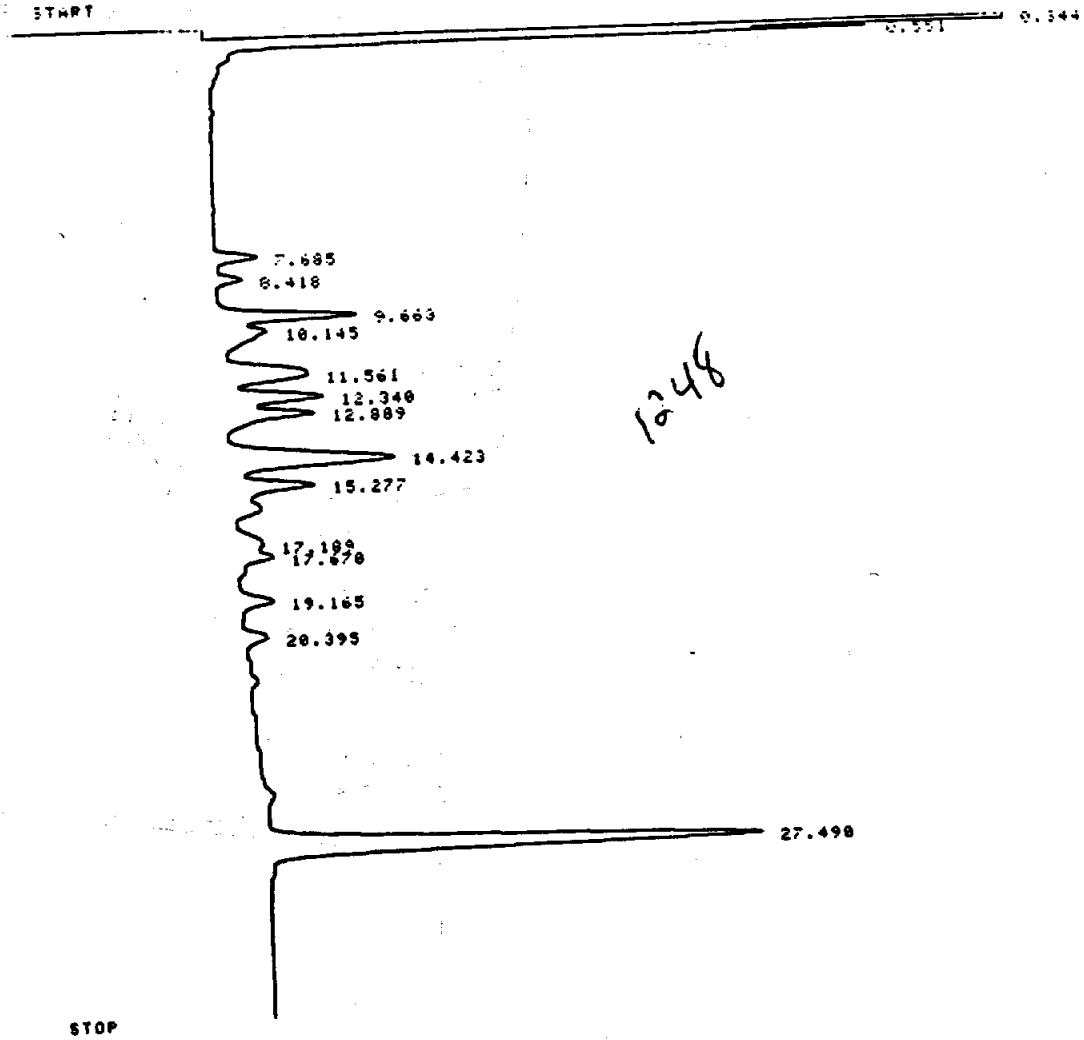
TOTAL AREA=1.0943E+07

MUL FACTOR=1.0000E+00

AR100511

AR100511

RUN # 20 JAN 1, 1901 17:15:24
START



1248

STOP

RUN# 20 JAN 1, 1901 17:15:24
SAMPLE# 17

AREA%

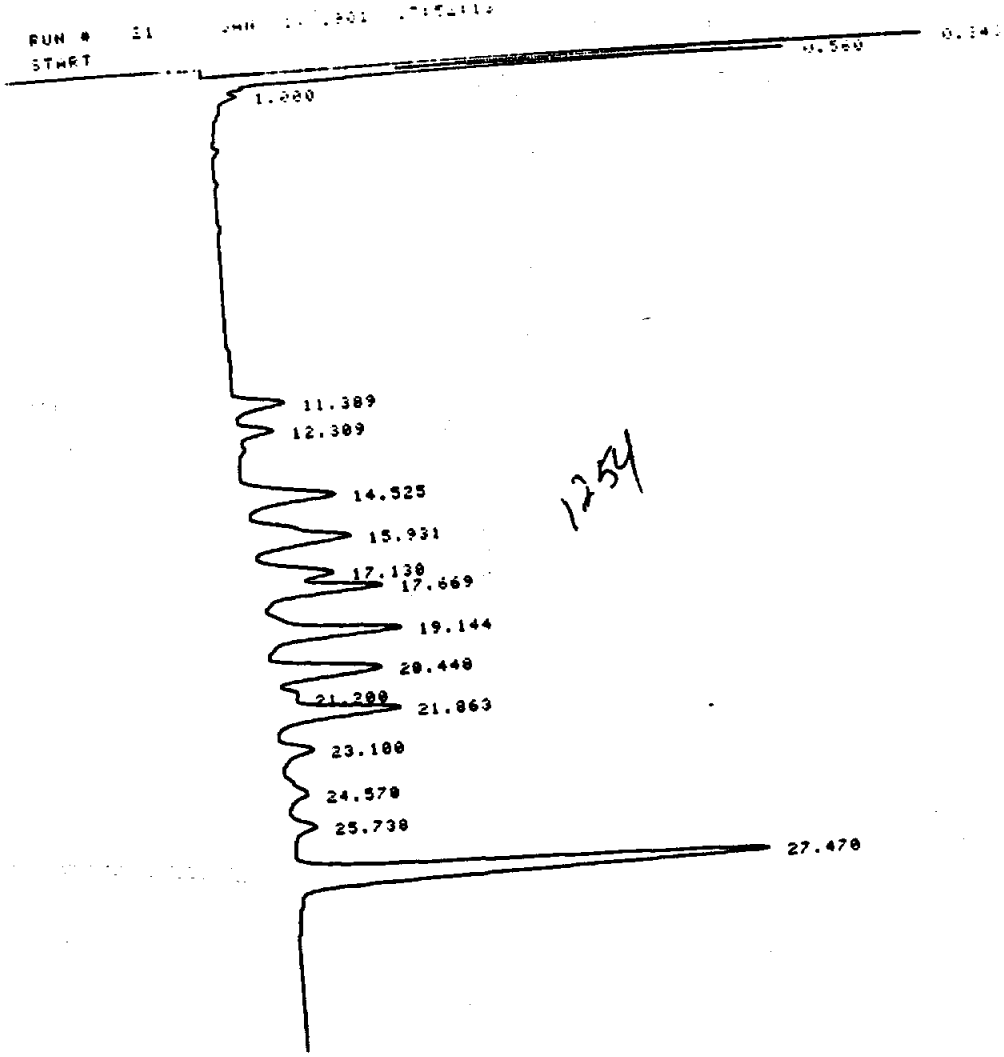
PT	AREA	TYPE	WIDTH	AREA%
.344	3517344	PV	.113	23.28622
.551	1522177	VB	.135	10.07742
7.685	220486	BV	.294	1.45970
8.418	129573	VB	.285	.85782
9.663	760797	BV	.318	5.03678
10.145	438271	VV	.543	2.90153
11.561	866161	VV	.584	5.73433
12.340	645338	VV	.379	4.27239
12.889	596499	VP	.391	3.94906
14.423	1369598	PV	.500	9.06728
15.277	384139	VB	.226	2.54315
17.189	237689	BV	.492	1.57360
17.670	280040	VB	.441	1.85398
19.165	237451	BP	.405	1.57202
20.395	149640	PB	.365	.99068
27.490	3749634	PB	.441	24.82486

TOTAL AREA=1.5105E+07
MUL FACTOR=1.0000E+00

AR100512

RUN # 21 JAN 1. 1901 17:52:13

START



1254

STOP

RUN# 21 JAN 1. 1901 17:52:13

SAMPLE# 18

AREA%

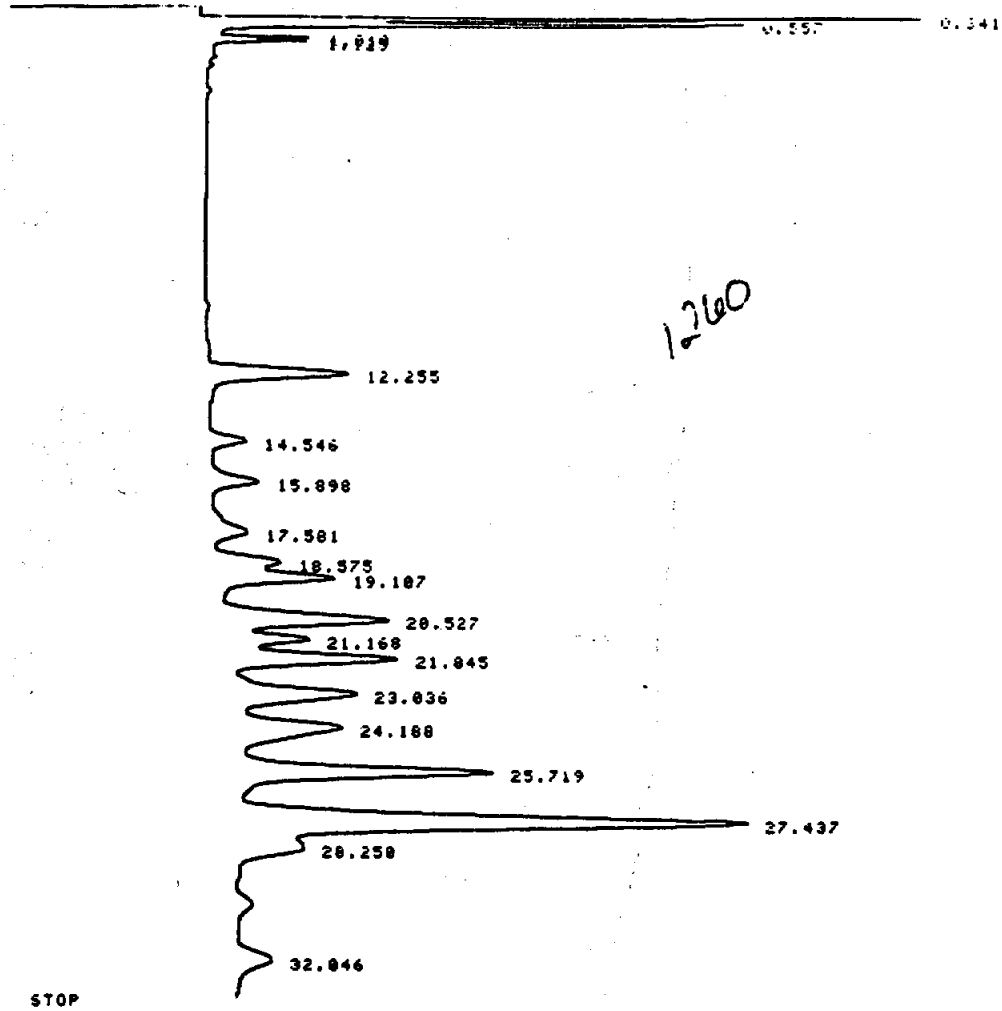
RT	AREA	TYPE	WIDTH	AREA%
.343	1185629	PV	.095	8.67106
.560	1305370	VV	.130	9.54678
1.000	180877	VB	.365	1.32384
11.389	325356	PP	.368	2.37948
12.309	171656	PB	.299	1.25540
14.525	797588	PV	.500	5.83313
15.931	1054558	VV	.602	7.71247
17.130	645818	VV	.477	4.72317
17.669	883335	VV	.411	6.46024
19.144	1114753	VP	.469	8.15271
20.448	858184	PP	.466	6.27630
21.200	45726	PB	.255	.33442
21.863	746446	BP	.389	5.45911
23.100	257031	PV	.437	1.87979
24.570	231154	VV	.593	1.69054
25.730	216154	VV	.483	1.58084
27.470	3693773	VB	.450	26.72174

TOTAL AREA=1.3673E+07
MUL FACTOR=1.0000E+00

RUN # 22 JAN 1. 1901 18:29:05

AR100513

AR100513



STOP

RUN# 22 JAN 1, 1901 18:29:05

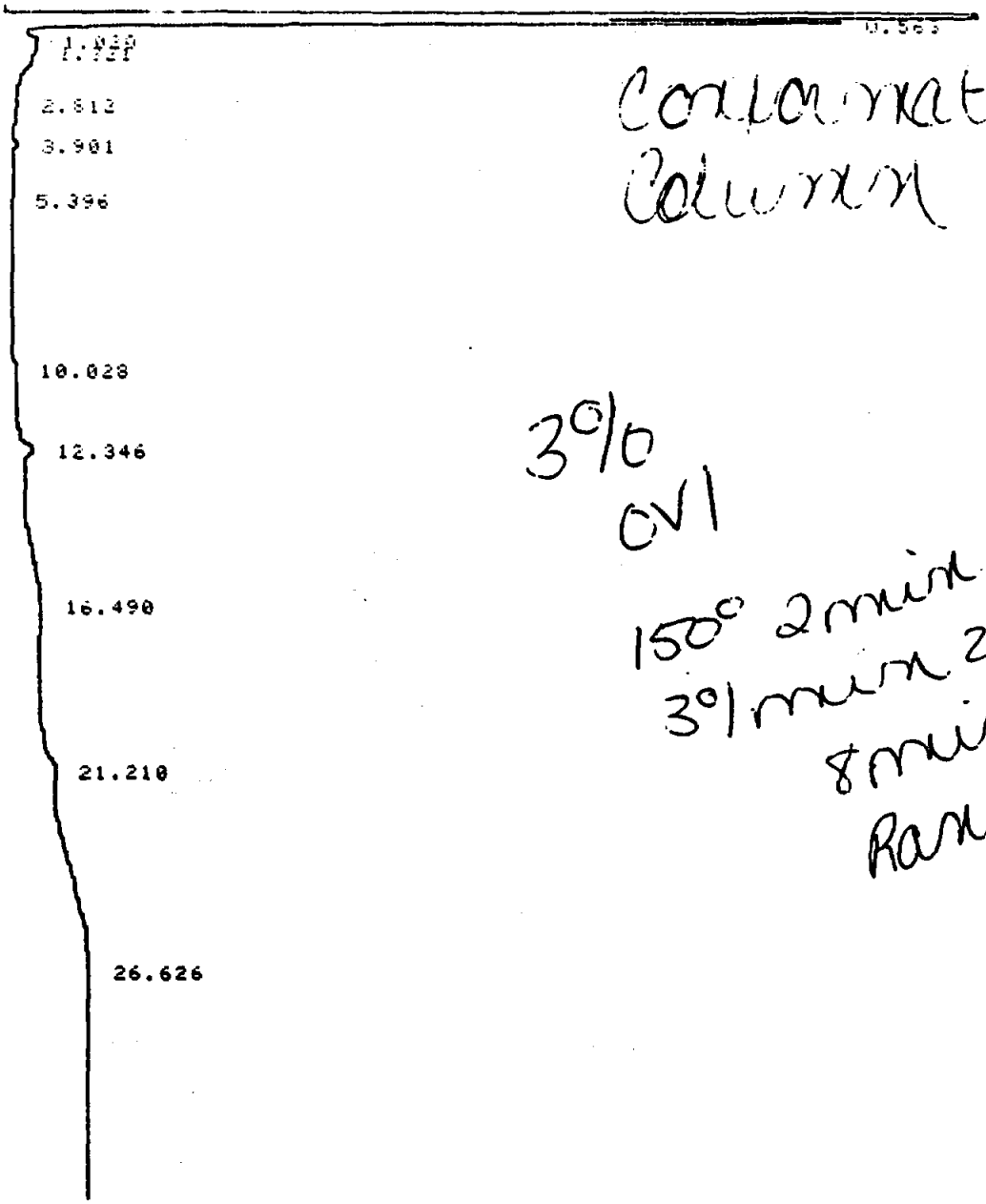
SAMPLE# 19

AREA%

RT	AREA	TYPE	WIDTH	AREA%
.341	1132931	PV	.091	6.05759
.557	1157215	VB	.126	6.18743
1.010	124403	BV	.079	.66516
1.125	134258	VB	.086	.71785
12.255	921493	BB	.385	4.92701
14.546	216742	BB	.349	1.15888
15.898	278118	BB	.359	1.48701
17.581	206206	BP	.408	1.10255
18.575	448197	PV	.406	2.39643
19.107	839708	VV	.420	4.48978
20.527	1340811	VV	.469	7.16989
21.168	565385	VV	.387	3.02302
21.845	1262197	VV	.430	6.74875
23.036	1228522	VV	.564	6.56870
24.168	1210176	VV	.651	6.47061
25.719	1953781	VB	.444	10.44654
27.437	4585411	BV	.522	24.51742
28.250	706364	VB	.623	3.77681
32.046	390768 I	BP	.641	2.08937

TOTAL AREA=1.8703E+07
MUL FACTOR=1.0000E+00

AR100514



Collaboration Column

3% OV1

150° 2 min
3°/min 220°
8 min
Range=0

STOP

RUN# 1051 JUN 21, 1990 10:29:12

SAMPLE# 1

AREA%

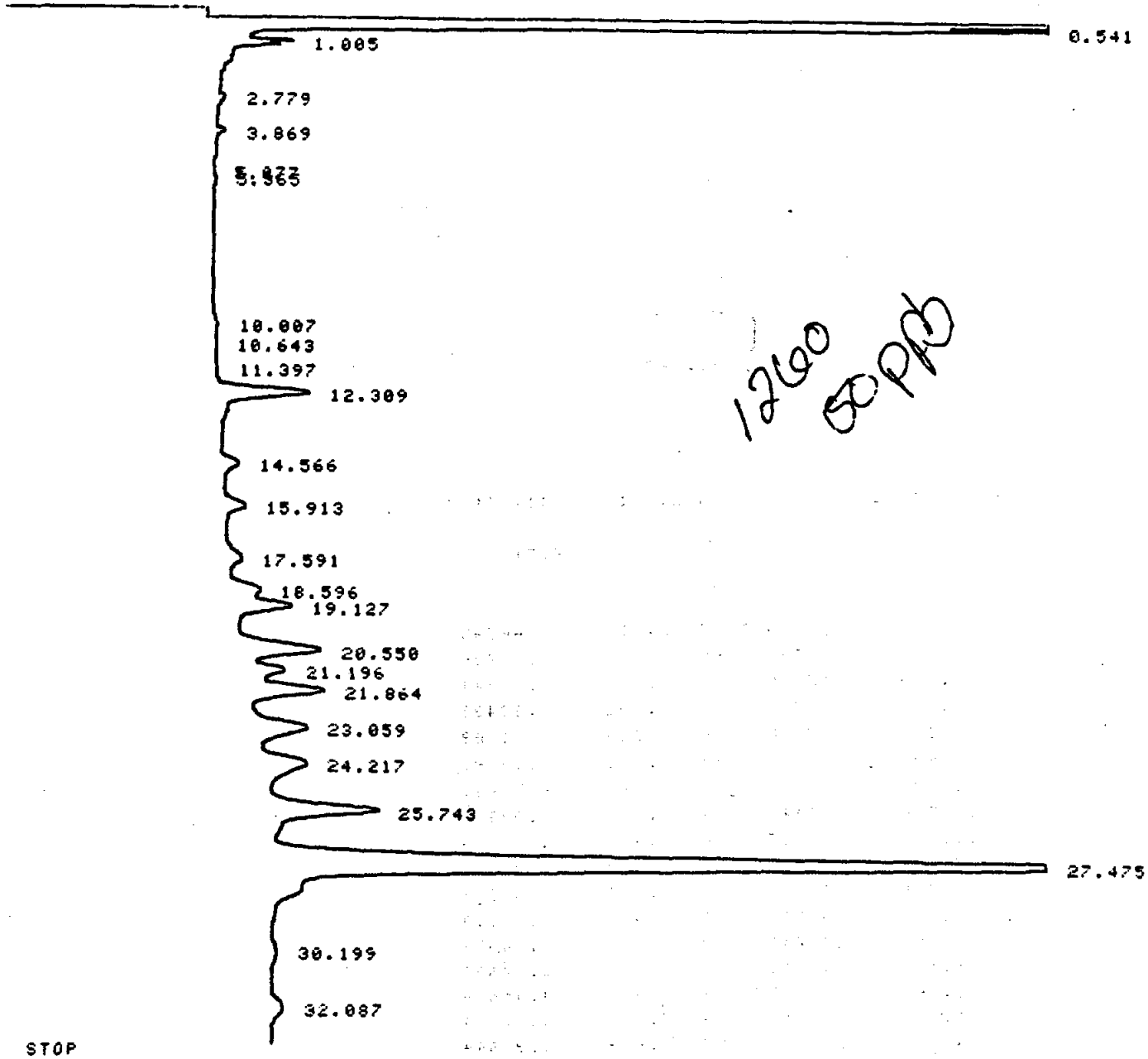
RT	AREA	TYPE	WIDTH	AREA%
.563	105100	BP	.038	2.39984
1.020	21938	PV	.187	.50093
1.321	61065	VB	.599	1.39435
3.901	9093	BB	.187	.20763
5.396	6117	PB	.371	.13968
10.028	55936	PV	1.286	1.27724
12.346	181320	VV	1.108	4.14024
16.490	778582	VV	3.612	17.77807
21.210	833319	VV	2.635	19.02793
26.626	2326982	VV	4.196	53.13410

TOTAL AREA=4379453
MUL FACTOR=1.0000E+00

AR100515

RUN # 1052 JUN 21, 1990 11:06:00

START



1260 50 ppb

STOP

AR100516

RUN# 1052 JUN 21, 1990 11:06:00

SAMPLE# 2

AREA%

RT	AREA	TYPE	WIDTH	AREA%
1.005	58296	PB	.143	.98906

32.087

STOP

RUN# 1052 JUN 21, 1990 11:06:00

SAMPLE# 2

AREA%

PT	AREA	TYPE	WIDTH	AREA%
1.005	58296	PB	.143	.98906
2.779	17885	PP	.226	.30344
3.869	19705	PV	.202	.33432
5.365	6960	VB	.229	.11808
10.007	11777	PP	.421	.19981
12.309	275071	VV	.363	4.66688
14.566	54448	PV	.384	.92377
15.913	76007	VP	.410	1.28954
17.591	63034	PP	.510	1.06944
18.596	95622	PV	.396	1.62233
19.127	193220	VP	.406	3.27819
20.550	291745	PV	.443	4.94978
21.196	132551	VV	.389	2.24887
21.864	259970	VV	.415	4.41068
23.059	225617	VV	.518	3.82784
24.217	235672	VV	.619	3.99844
25.743	409205	VP	.457	6.94261
27.475	3356989	PB	.448	56.95502
30.199	34758	BV	.613	.58971
32.087	75575 I	VP	.649	1.28221

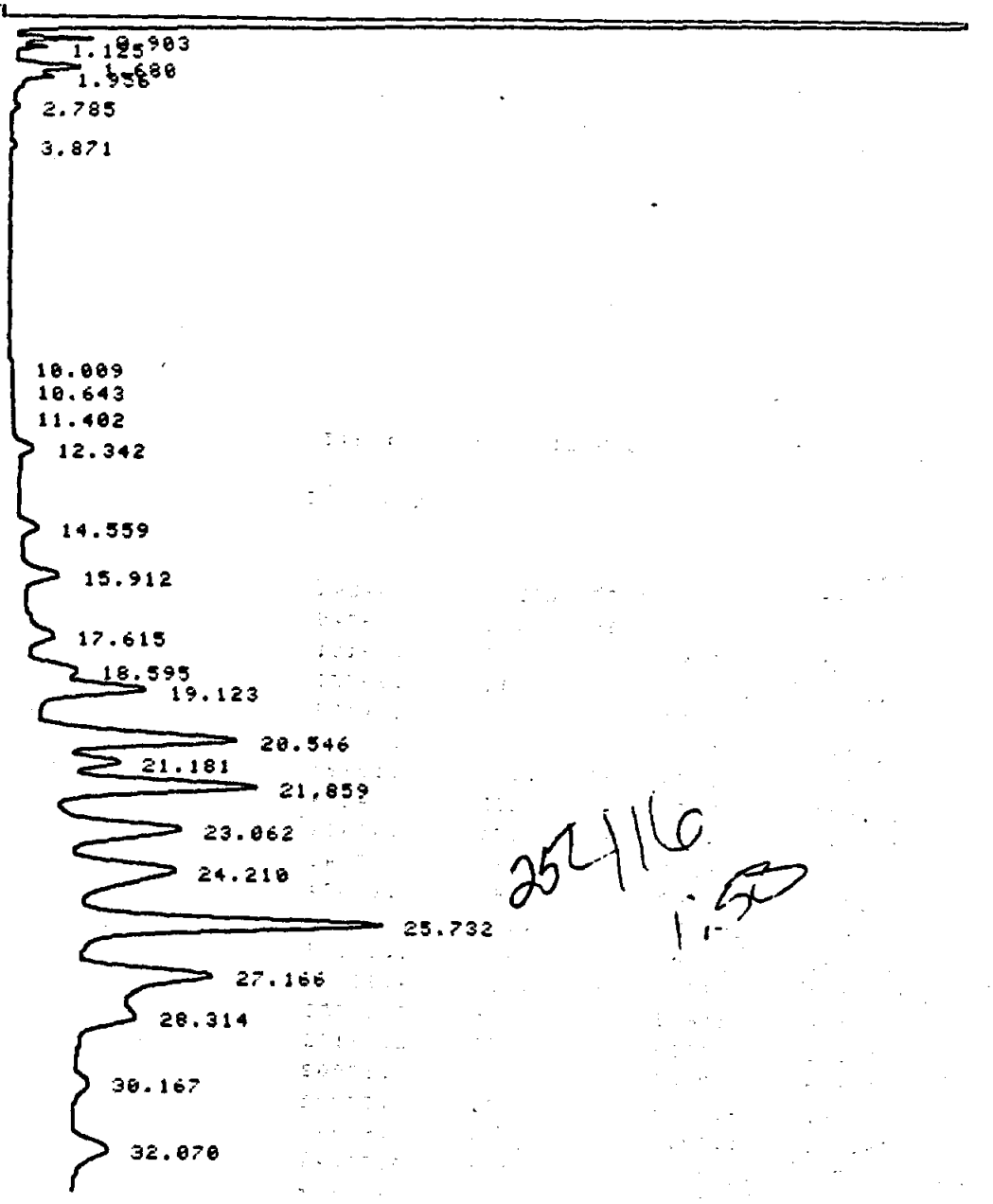
TOTAL AREA=5894106
MUL FACTOR=1.0000E+00

AR100517

RUN # 1053 JUN 21, 1990 [illegible]

RUN # 1053 JUN 21, 1990 11:42:51

START



252116
1.5

STOP

AR100518

RUN# 1053 JUN 21, 1990 11:42:51

SAMPLE# 3

AREA%

RT	AREA	TYPE	WIDTH	AREA%

RUN# 1053 JUN 21, 1990 11:42:51

SAMPLE# 3

AREA% RT	AREA	TYPE	WIDTH	AREA%
.903	57381	BV	.100	.49745
1.125	22068	VV	.092	.19131
1.680	103553	VV	.211	.89773
1.956	69385	VV	.236	.60152
2.785	11823	VP	.180	.10250
3.871	12578	BP	.192	.10904
10.643	5374	PP	.297	.04659
12.342	54773	PV	.371	.47484
14.559	96251	VV	.542	.83442
15.912	191567	VV	.568	1.66074
17.615	250855	VV	.825	2.17472
18.595	218402	VV	.462	1.89338
19.123	499778	VV	.516	4.33270
20.546	851692	VV	.526	7.38353
21.181	333584	VV	.427	2.89192
21.859	873203	VV	.496	7.57002
22.062	920266	VV	.751	7.97802
24.210	1111913	VV	.934	9.63946
25.732	1659020	VV	.622	14.38246
27.166	1219239	VV	.838	10.56989
28.314	1095839	VV	1.202	9.50010
30.167	717217	VV	1.258	6.21773
33.070	1159262	I VH	1.632	10.04994

TOTAL AREA=1.1535E+07
MUL FACTOR=1.0000E+00

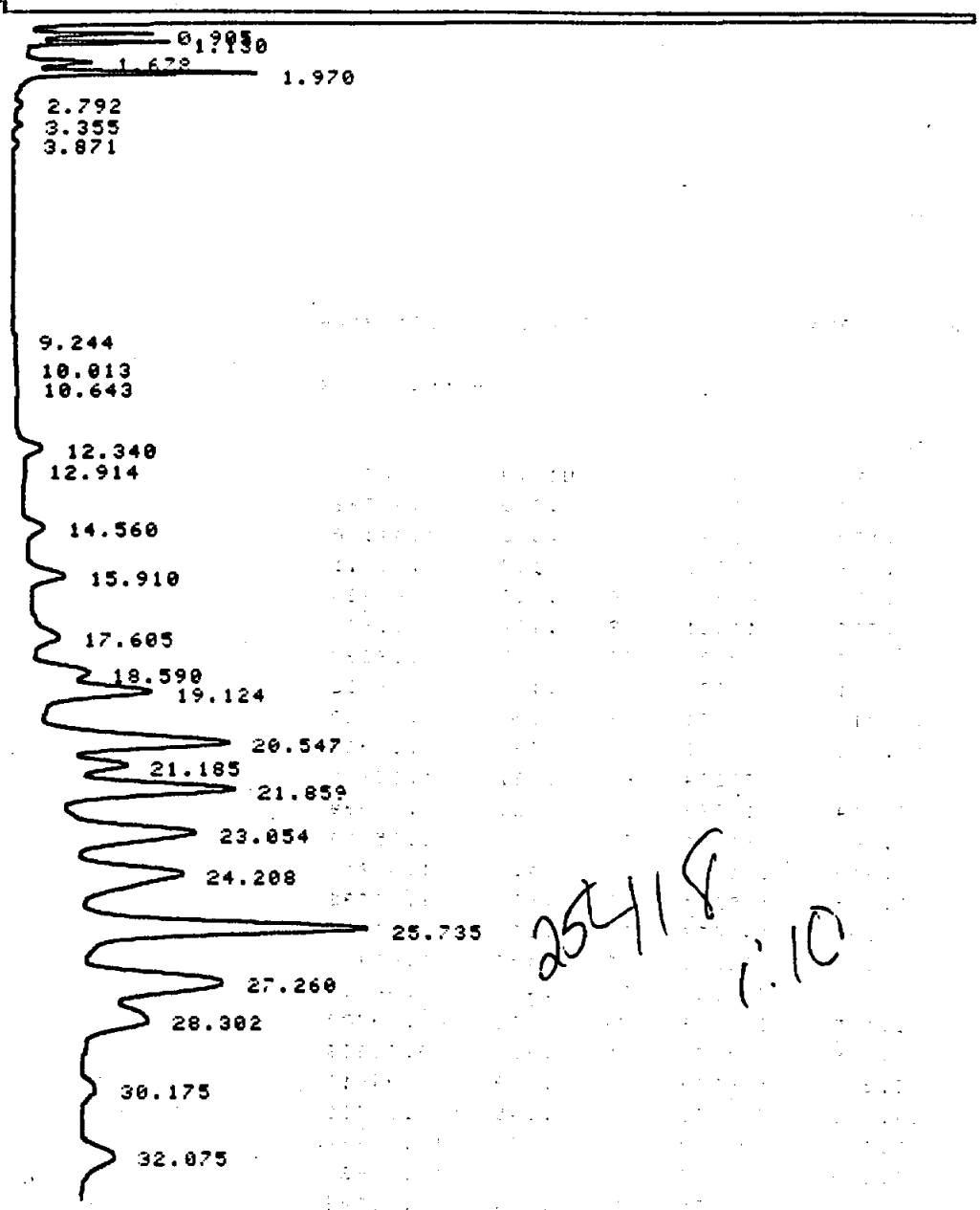
AR100519

AR100510

JUN 21, 1990 12:19:46

RUN # 1054 JUN 21, 1990 12:19:46

START



25418 1:10

STOP

AR100520

RUN# 1054 JUN 21, 1990 12:19:46

SAMPLE# 4

AREA%

STOP

RUN# 1054 JUN 21, 1990 12:19:46

SAMPLE# 4

AREA%

RT	AREA	TYPE	WIDTH	AREA%
.905	83688	BV	.095	1.43766
1.130	83882	VB	.082	1.44100
1.678	75506	BV	.155	1.29711
1.970	200965	VB	.119	3.45235
2.792	11431	PP	.174	.19637
3.355	10709	PP	.157	.18397
3.871	10974	PP	.188	.18852
10.013	7991	VP	.340	.13728
10.643	7582	PP	.295	.13025
12.340	73234	PV	.421	1.25808
12.914	19262	VP	.423	.33090
14.560	61551	PV	.407	1.05738
15.910	111891	VV	.412	1.92216
17.605	105241	VP	.534	1.80792
18.590	149673	PV	.393	2.57131
19.124	326263	VP	.405	5.60483
20.547	582525	PV	.449	10.00712
21.185	210008	VV	.381	3.60770
21.859	535772	VV	.418	9.20396
23.054	520764	VV	.549	8.94613
24.208	522321	VV	.645	8.97288
25.735	904418	VB	.438	15.53687
27.260	631373	PV	.637	10.84627
28.302	338525	VP	.714	5.81548
30.175	64981	PB	.546	1.11630
32.075	170577 I	BP	.666	2.93032

TOTAL AREA=5821107
MUL FACTOR=1.0000E+00

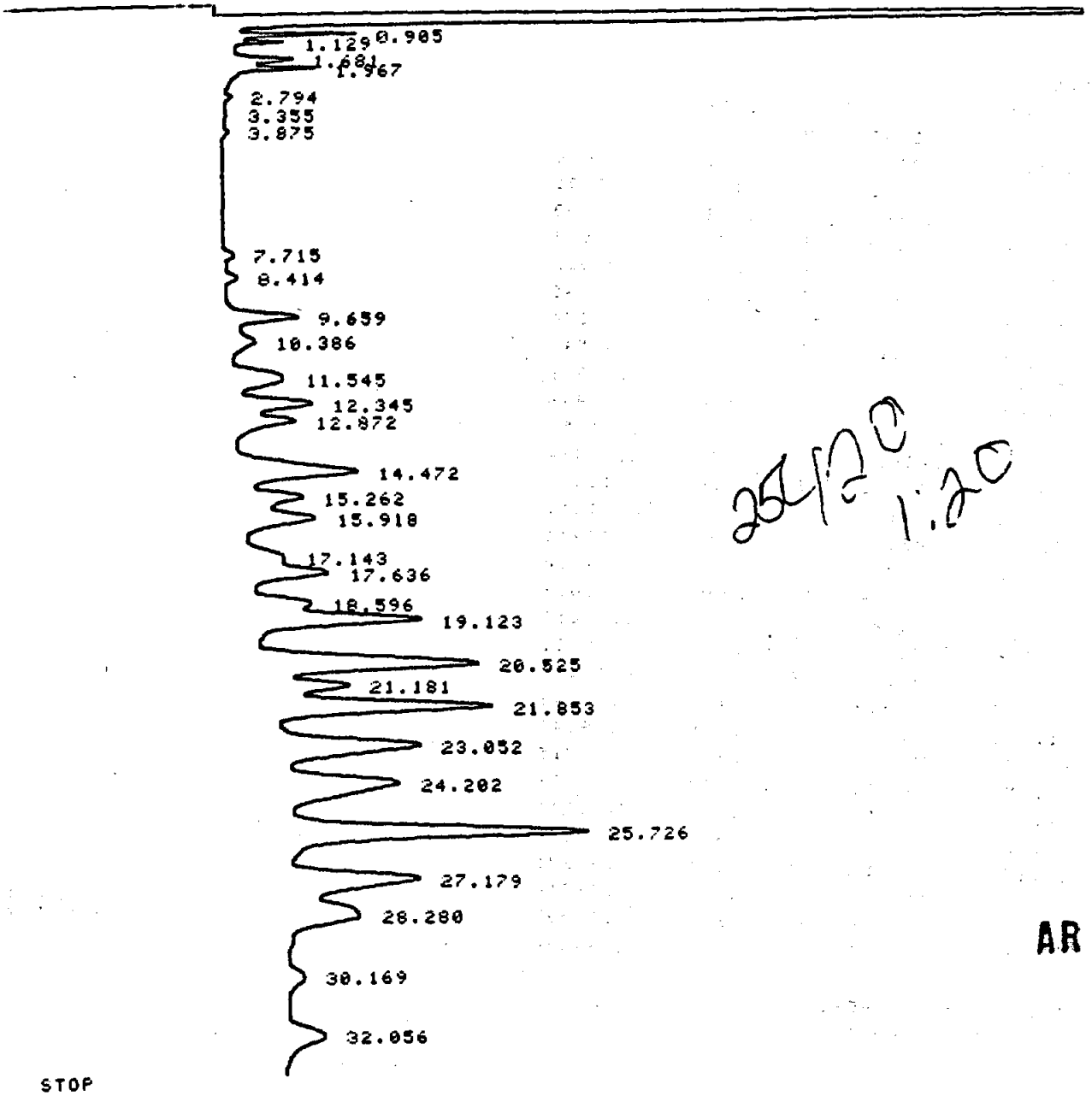
AR100

AR100521

RUN # 1055 JUN 21, 1990 12:52:13

RUN # 1055 JUN 21, 1990 12:56:43

START



25/20
1.20

STOP

AR100522

RUN# 1055 JUN 21, 1990 12:56:43

SAMPLE# 5

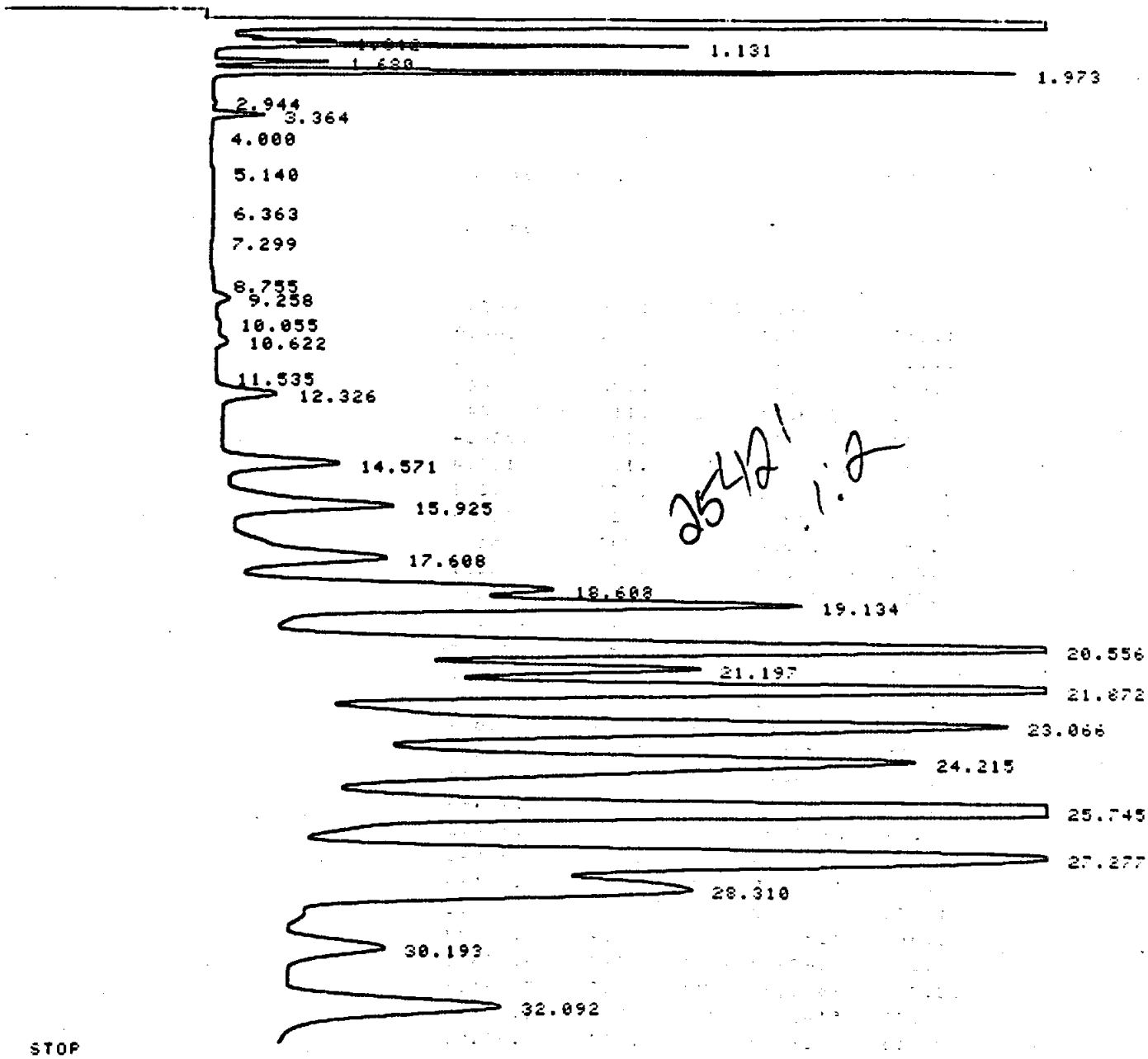
AREA%

RT	AREA	TYPE	WIDTH	AREA%
.905	85497	BV	.090	.95962
1.129	30871	VP	.081	.34650
1.681	96775	VV	.194	1.08621
1.967	113141	VP	.162	1.26990
2.794	11170	PP	.173	.12537
3.355	7147	PP	.164	.08022
3.875	10910	PP	.192	.12245
7.715	28754	PV	.297	.32274
8.414	37018	VP	.319	.41549
9.659	196752	PV	.338	2.20836
10.386	122456	VV	.538	1.37446
11.545	241763	VV	.560	2.71356
12.345	243658	VV	.378	2.73484
12.872	190281	VP	.386	2.13573
14.472	500142	PV	.524	5.61363
15.262	202637	VV	.408	2.27441
15.918	262080	VP	.453	2.94160
17.143	122984	PV	.409	1.38038
17.636	268048	VV	.428	3.00859
18.596	178038	VV	.383	1.99831
19.123	546660	VP	.413	6.13575
20.525	811959	PV	.470	9.11348
21.181	257613	VV	.381	2.89147
21.853	751701	VV	.424	8.43715
23.052	631042	VV	.542	7.08286
24.202	625211	VV	.658	7.01741
25.726	1036748	VE	.437	11.63653
27.179	576619	PV	.561	6.47201
28.280	415817	VP	.729	4.66716
30.169	88288	PV	.611	.99095
32.056	217645 I	VP	.677	2.44286

TOTAL AREA=8.9094E+06
MUL FACTOR=1.0000E+00

AR100523

RUN # 1056 JUN 21, 1990 13:33:42



STOP

AR100524

RUN# 1056 JUN 21, 1990 13:33:42

SAMPLE# 6

AREA%

RT	AREA	TYPE	WIDTH	AREA%
1.012	88214	BV	.096	.20410
1.131	344310	VB	.089	.79662

RUN# 1056 JUN 21, 1990 13:33:42

SAMPLE# 6

AREA%

RT	AREA	TYPE	WIDTH	AREA%
1.012	88214	BV	.096	.20410
1.131	344310	VB	.089	.79662
1.680	97685	VV	.102	.22601
1.973	749224	VB	.113	1.73346
2.944	10476	VV	.224	.02424
3.364	70277	VP	.157	.16260
4.000	5393	PV	.373	.01248
5.140	14905	VV	.523	.03449
6.363	22230	VP	.747	.05143
8.755	10290	PV	.474	.02381
9.258	40860	VV	.289	.09454
10.055	22410	VV	.327	.05185
10.622	41450	VP	.349	.09590
11.535	10467	PV	.491	.02422
12.326	167738	VV	.335	.38809
14.571	380411	BV	.385	.88014
15.925	709871	VV	.495	1.64241
17.608	879667	VV	.636	2.03526
18.608	1194899	VV	.436	2.76460
19.134	2225909	VV	.465	5.15002
20.556	3831773	VV	.521	8.86545
21.197	1608655	VV	.408	3.72189
21.872	3697382	VV	.469	8.55452
23.066	4306147	VV	.664	9.96300
24.215	4267990	VV	.747	9.87471
25.745	6695594	VV	.525	15.49138
27.277	5142685	VV	.750	11.89846
28.310	3039310	VV	.785	7.03196
30.193	1363567	VV	1.003	3.15484
32.092	2181654	I VH	.944	5.04762

TOTAL AREA=4.3221E+07
MUL FACTOR=1.0000E+00

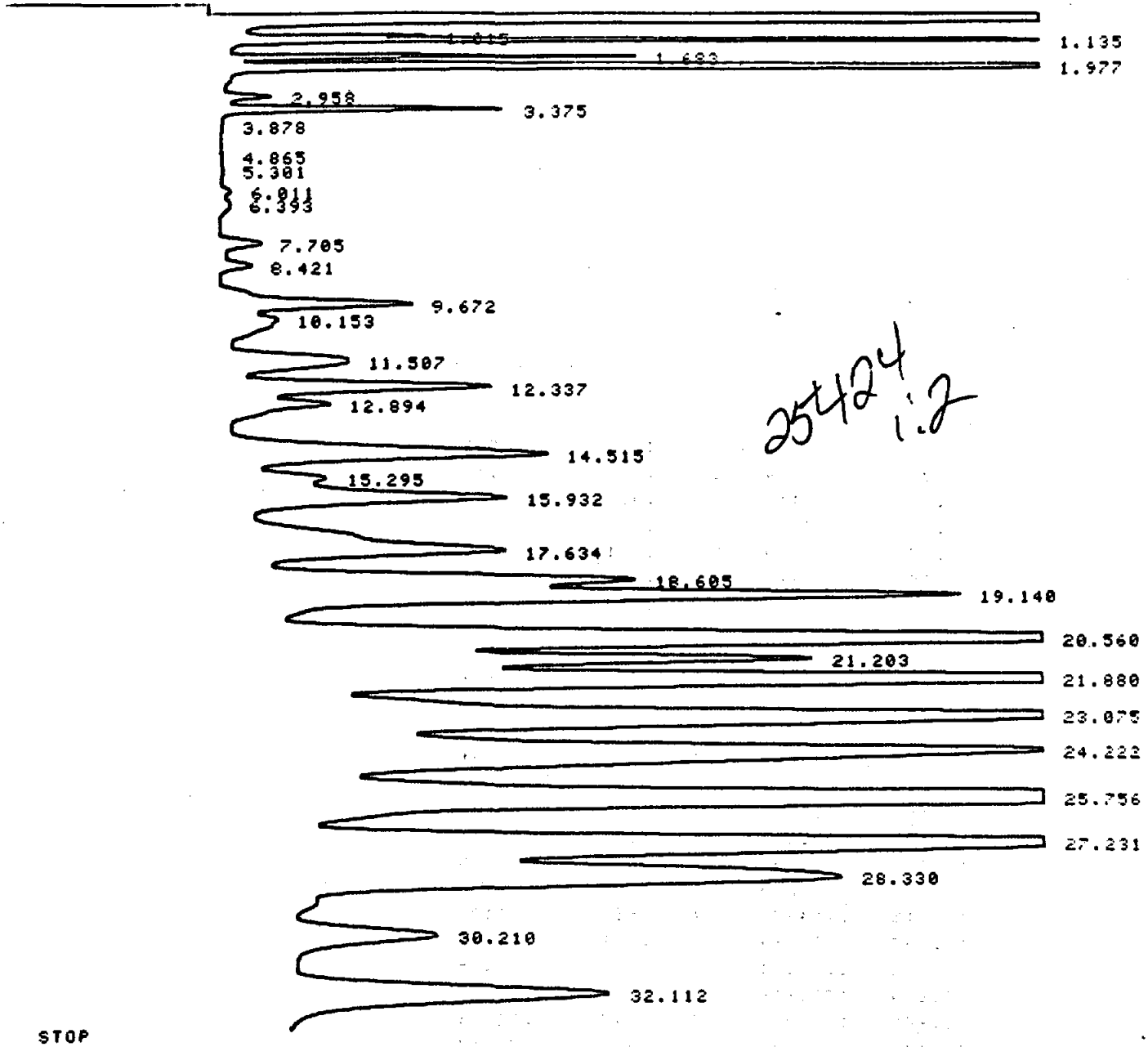
AR100

RUN # 1057 JUN 21, 1990 14:10:43
START

AR100525

RUN # 1057 JUN 21, 1990 14:10:43

START



25424
1:2

STOP

RUN# 1057 JUN 21, 1990 14:10:43

SAMPLE# 7

AR100526

AREA%

RT	AREA	TYPE	WIDTH	AREA%
1.015	109914	BV	.070	.18114
1.135	1098110	VB	.091	1.80973
1.683	356215	BV	.104	.58706
1.977	2738174	VB	.121	4.51261
2.958	74949	BV	.182	.12352

SAMPLE# 7

AREA%

RT	AREA	TYPE	WIDTH	AREA%
1.015	109914	BV	.070	.18114
1.135	1098110	VB	.091	1.80973
1.683	356215	BV	.104	.58706
1.977	2738174	VB	.121	4.51261
2.958	74949	BV	.182	.12352
3.375	362709	VB	.155	.59776
4.865	8976	PV	.251	.01479
5.301	17135	VV	.354	.02824
6.011	31137	VV	.286	.05131
6.393	46143	VP	.440	.07605
7.705	111548	PV	.300	.18384
8.421	89809	VP	.312	.14801
9.672	588275	PV	.362	.96950
10.153	320989	VV	.639	.52900
11.507	622281	VV	.569	1.02554
12.337	832295	VV	.365	1.37165
12.894	427269	VV	.454	.70416
14.515	1414971	VV	.516	2.33192
15.295	331894	VV	.369	.54697
15.932	1264331	VV	.529	2.08366
17.634	1758916	VV	.738	2.89876
18.605	1534985	VV	.445	2.52971
19.140	2855848	VV	.465	4.70654
20.560	4628714	VV	.519	7.62829
21.203	1996998	VV	.406	3.29113
21.880	4461859	VV	.466	7.35331
23.075	5173757	VV	.653	8.52654
24.222	5212787	VV	.741	8.59087
25.756	8388832	VV	.519	13.82510
27.231	5248995	VV	.650	8.65054
28.330	4068381	VV	.793	6.70484
30.210	1676061	VV	.940	2.76221
32.112	2825018	I VH	.883	4.65573

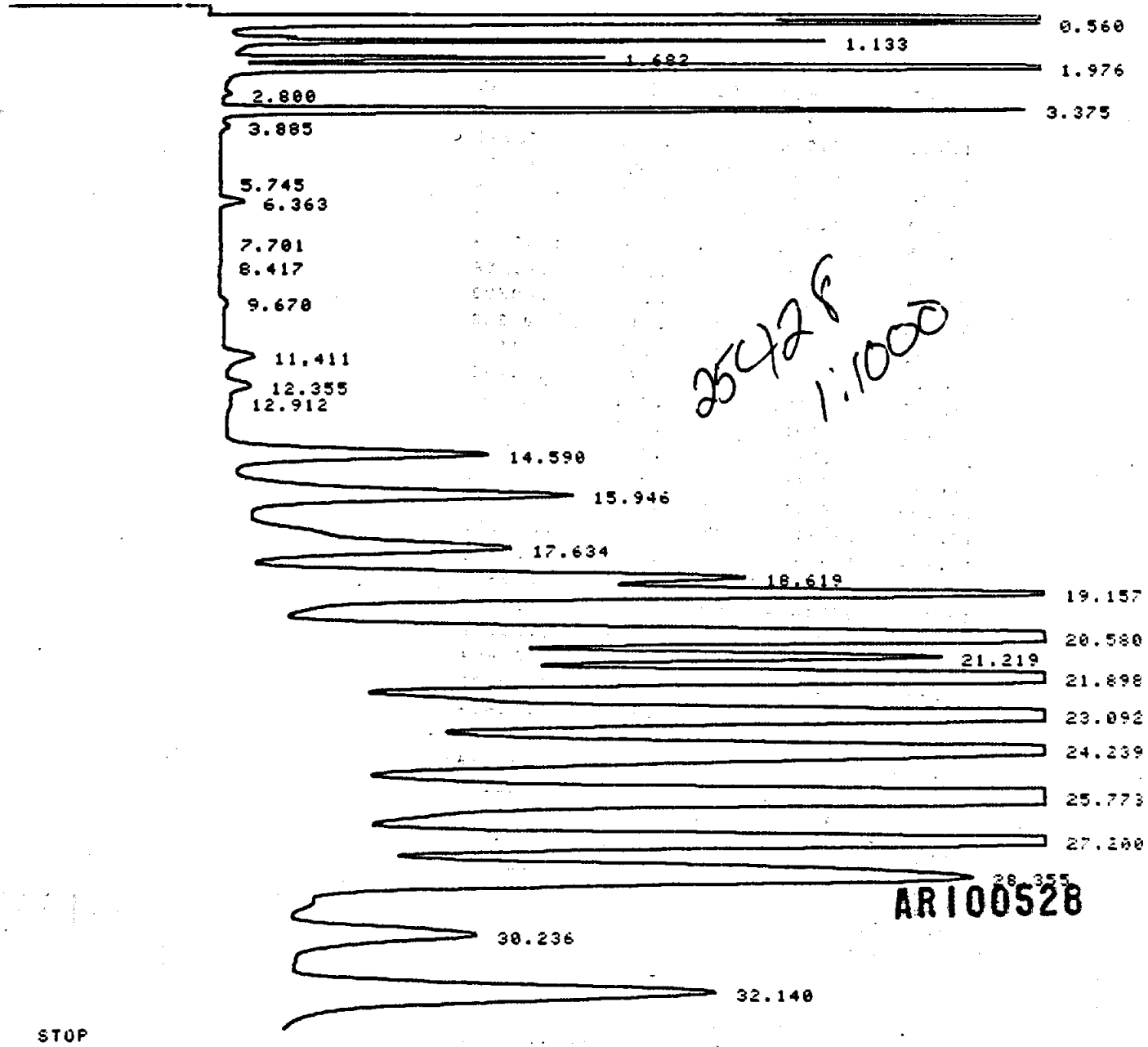
TOTAL AREA=6.0678E+07
MUL FACTOR=1.0000E+00

AR100527

AR100527

RUN # 1058 JUN 21, 1990 14:47:45

START



25428
1:1000

AR100528

STOP

RUN# 1058 JUN 21, 1990 14:47:45

SAMPLE# 8

AREA%

RT	AREA	TYPE	WIDTH	AREA%
.560	151499	PP	.044	.23118
1.133	481946	PB	.096	.73543
1.682	327353	PV	.105	.49953
1.976	3042245	VB	.120	4.64232
2.800	12384	BP	.146	.01890
3.375	1074014	PV	.160	1.63889
3.885	18076	VB	.205	.02758
5.745	5200	VB	.206	.00793
6.363	47394	PB	.219	.07232
7.701	9990	VV	.305	.01524
8.417	6744	VV	.348	.01029
9.670	33691	VV	.401	.05141
11.411	142713	VV	.465	.21777
12.355	115630	VV	.418	.17645
13.912	71270	VV	.603	.10875
14.590	943316	VV	.418	1.43946
15.946	1469170	VV	.498	2.24188
17.634	1640965	VV	.671	2.50404
18.619	1906551	VV	.437	2.90931
19.157	3374094	VV	.461	5.14871
20.580	5375171	VV	.506	8.20226
21.219	2435230	VV	.406	3.71604
21.898	5243482	VV	.464	8.00130
23.092	6111818	VV	.650	9.32634
24.239	6260237	VV	.747	9.55282
25.773	10231600	VV	.527	15.61294
27.200	4735187	VV	.535	7.22567
28.355	4988266	VV	.799	7.61186
30.236	1866898	VV	.871	2.84880
32.140	3410730	I VH	.830	5.20461

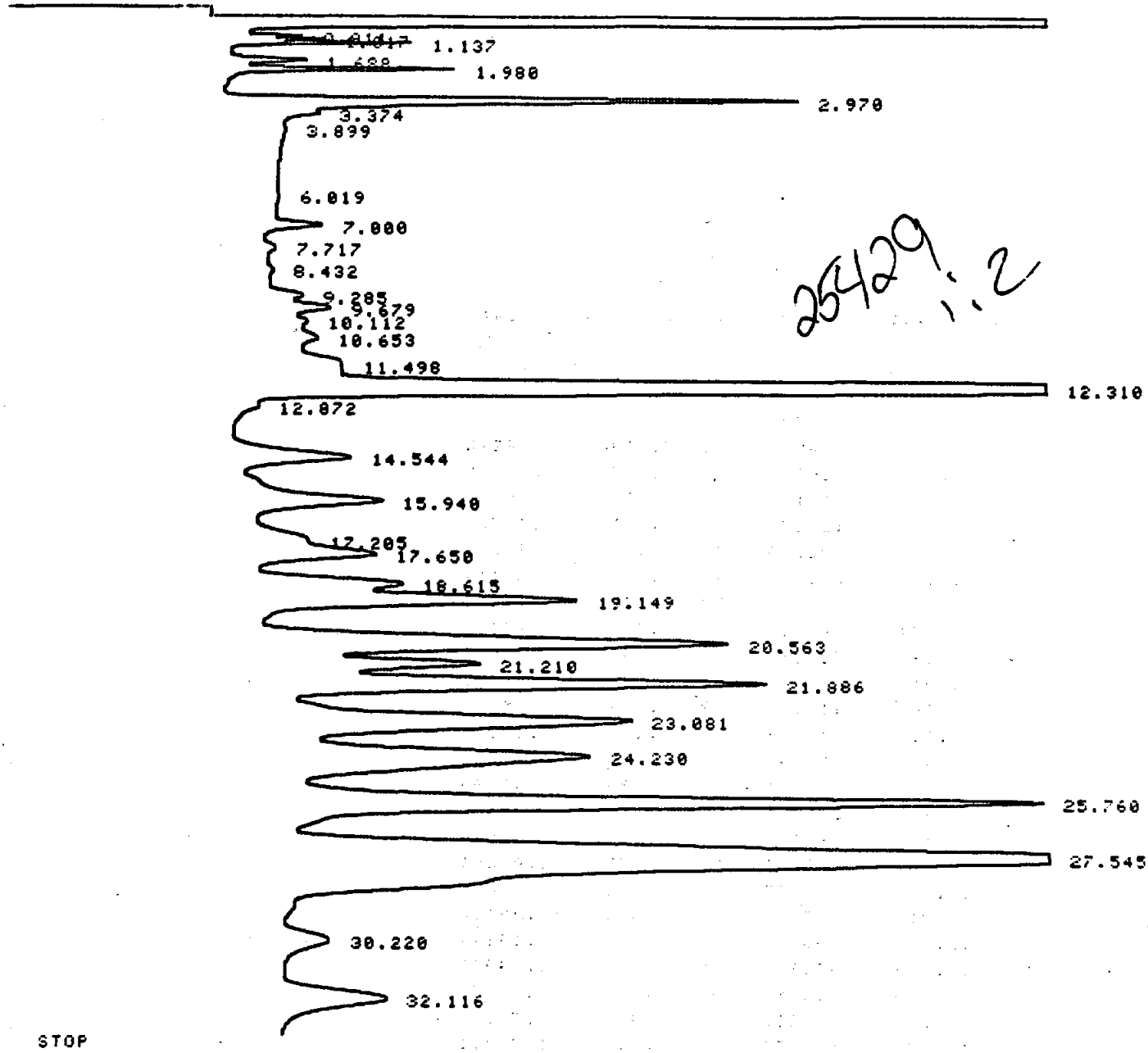
TOTAL AREA=6.5533E+07
MUL FACTOR=1.0000E+00

AR100529

RUN # 1059 JUN 21, 1990 15:24:49
START

RUN # 1059 JUN 21, 1990 15:24:49

START



25429 1:2

STOP

RUN# 1059 JUN 21, 1990 15:24:49

AR100530

SAMPLE# 9

AREA%

RT	AREA	TYPE	WIDTH	AREA%
.911	26382	BV	.075	.10865

RUN# 1059 JUN 21, 1990 15:24:49

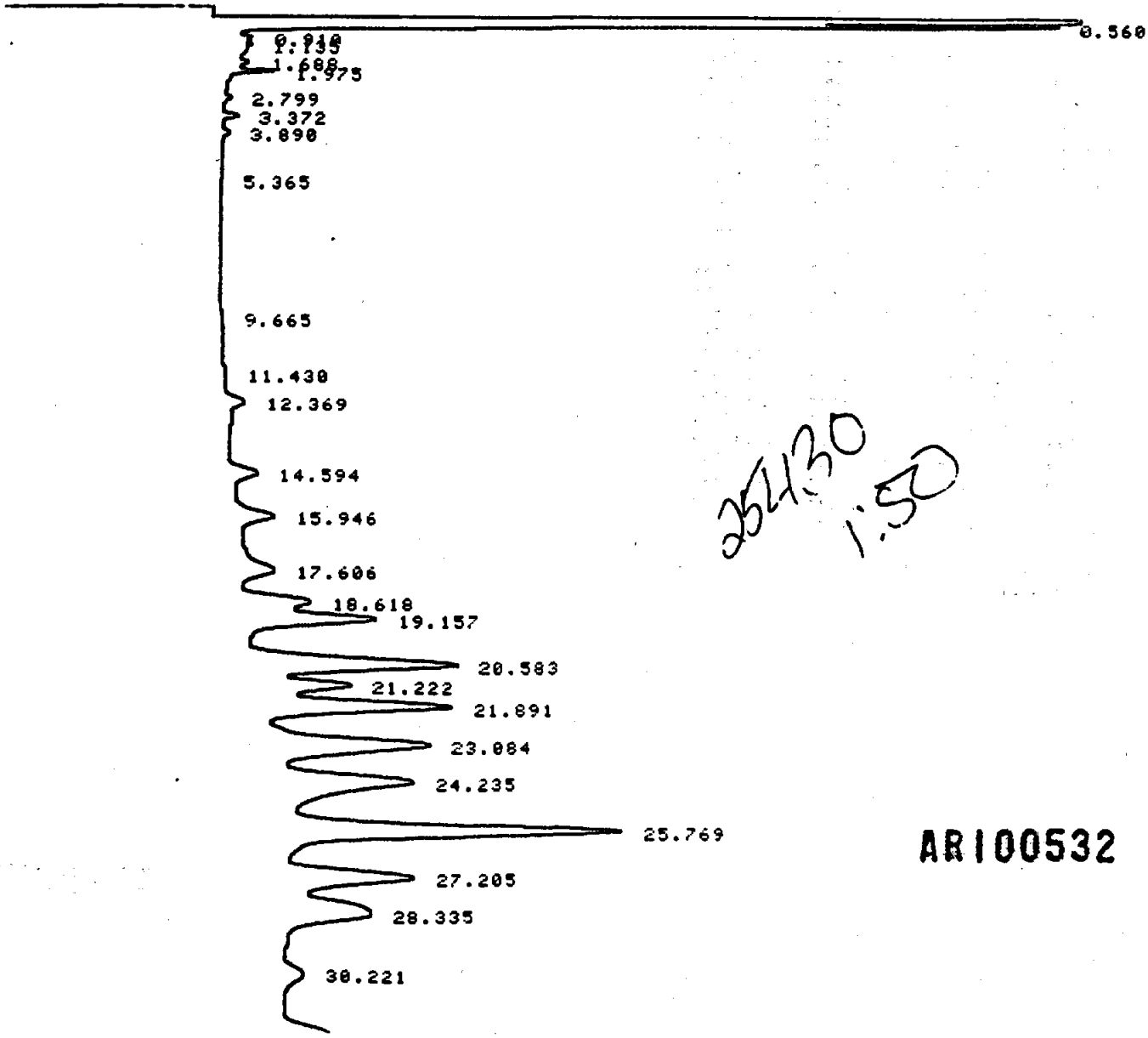
SAMPLE# 9

AREA%

RT	AREA	TYPE	WIDTH	AREA%
.911	36382	BV	.075	.10865
1.017	55190	VV	.078	.16482
1.137	125674	VB	.085	.37531
1.688	102210	BV	.159	.30524
1.980	228080	VB	.122	.68114
2.970	1069081	PV	.226	3.19270
3.374	209864	VV	.306	.62674
3.899	212016	VV	.644	.63316
6.019	28010	BV	.445	.08365
7.000	118061	VP	.248	.35258
7.717	48208	PV	.384	.14397
8.432	59344	VV	.443	.17722
9.285	161701	VV	.389	.48290
9.679	242335	VV	.366	.72371
10.112	169570	VV	.347	.50640
10.653	345838	VV	.577	1.03281
11.498	588155	VV	.706	1.75646
12.310	5857021	VV	.326	17.49137
12.872	65773	VP	.328	.19642
14.544	451806	PV	.466	1.34927
15.940	685962	VV	.566	2.04855
17.205	258281	VV	.446	.77133
17.650	584354	VV	.518	1.74511
18.615	559191	VV	.421	1.66996
19.149	1223427	VV	.443	3.65364
20.563	1966560	VV	.494	5.87292
21.210	759253	VV	.397	2.26743
21.886	1929244	VV	.450	5.76148
23.081	1930201	VV	.613	5.76434
24.230	2002196	VV	.722	5.97934
25.760	3208368	VV	.495	9.58145
27.545	7082931	VV	.883	21.15242
30.220	418955	VV	.824	1.25116

AR100531

RUN # 1060 JUN 21, 1998 16:01:57
START



252130
1.50

AR100532

32.120

STOP

RUN# 1072 JUN 21, 1990 23:29:50

SAMPLE# 22

AREA%

RT	AREA	TYPE	WIDTH	AREA%
1.019	185309	PV	.079	.56944
1.136	223350	VP	.090	.68634
1.687	17870	VP	.107	.05491
1.978	16024	PB	.095	.04924
2.812	24097	BV	.221	.07405
3.895	14313	PV	.203	.04398
5.054	10450	PV	.241	.03211
6.016	5931	VV	.257	.01823
6.352	8735	VP	.224	.02684
7.701	9134	VP	.267	.02807
8.411	5802	PB	.269	.01783
9.665	22030	PV	.339	.06770
10.085	14047	VV	.325	.04317
10.644	14802	VP	.336	.04549
11.404	35249	PP	.319	.10832
12.274	1267716	PB	.403	3.89562
14.585	427152	BV	.377	1.31261
15.937	682984	VV	.456	2.09852
17.625	741101	VV	.627	2.27736
18.614	897676	VV	.430	2.75851
19.149	1636845	VV	.459	5.02993
20.570	2571962	VV	.505	7.90349
21.212	1145737	VV	.406	3.52078
21.890	2520605	VV	.464	7.74567
23.082	2733517	VV	.644	8.39994
24.230	2848382	VV	.754	8.75291
25.764	4369837	VV	.522	13.42824
27.466	5297018	VV	.629	16.27742
28.320	2210152	VV	.853	6.79167
30.230	1021212	VV	1.077	3.13812
32.120	1563165	I VH	.977	4.80351

TOTAL AREA=3.2542E+07
MUL FACTOR=1.0000E+00

AR100533

RUN# 1060 JUN 21, 1990 16:01:57

SAMPLE# 10

AREA%

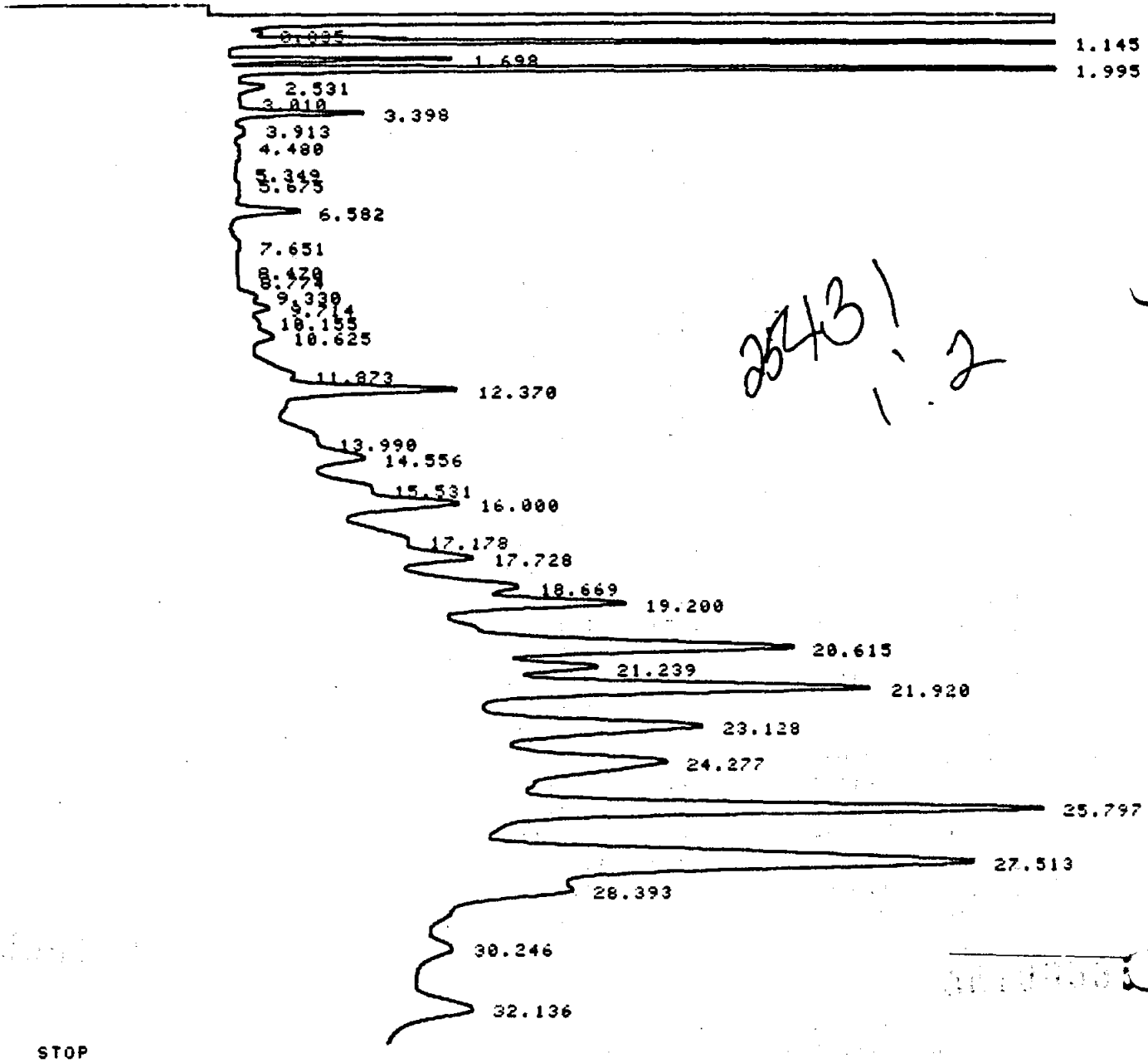
RT	AREA	TYPE	WIDTH	AREA%
.560	102313	BP	.033	1.44686
.910	19816	PV	.170	.28023
1.135	14666	VV	.114	.20740
1.688	28570	VV	.196	.40402
1.975	44368	VP	.125	.62743
2.799	10404	PP	.153	.14713
3.372	21917	PP	.158	.30994
3.890	15301	PP	.193	.21638
5.365	9157	PV	.418	.12949
11.430	9487	PV	.437	.13416
12.369	66469	VV	.403	.93997
14.594	88077	PV	.384	1.24554
15.946	152229	VV	.474	2.15274
17.606	180177	VP	.637	2.54797
18.618	214186	PV	.396	3.02891
19.157	424306	VP	.406	6.00031
20.583	736801	PV	.450	10.41945
21.222	290649	VV	.385	4.11020
21.891	641033	VV	.420	9.06515
23.884	714522	VV	.551	10.10439
24.235	728746	VV	.655	10.30554
25.769	1191789	VB	.440	16.85365
27.205	500802	BV	.495	7.08208
28.335	504177	VP	.735	7.12980
30.221	96797	PV	.569	1.36885
32.129	264642 I	VP	.677	3.74243

TOTAL AREA=7071402
MUL FACTOR=1.0000E+00

AR100534

RUN # 1062 JUN 21, 1990 17:16:16

START



2543!
1.2

STOP

AR100535

RUN# 1062 JUN 21, 1990 17:16:16

AREA%

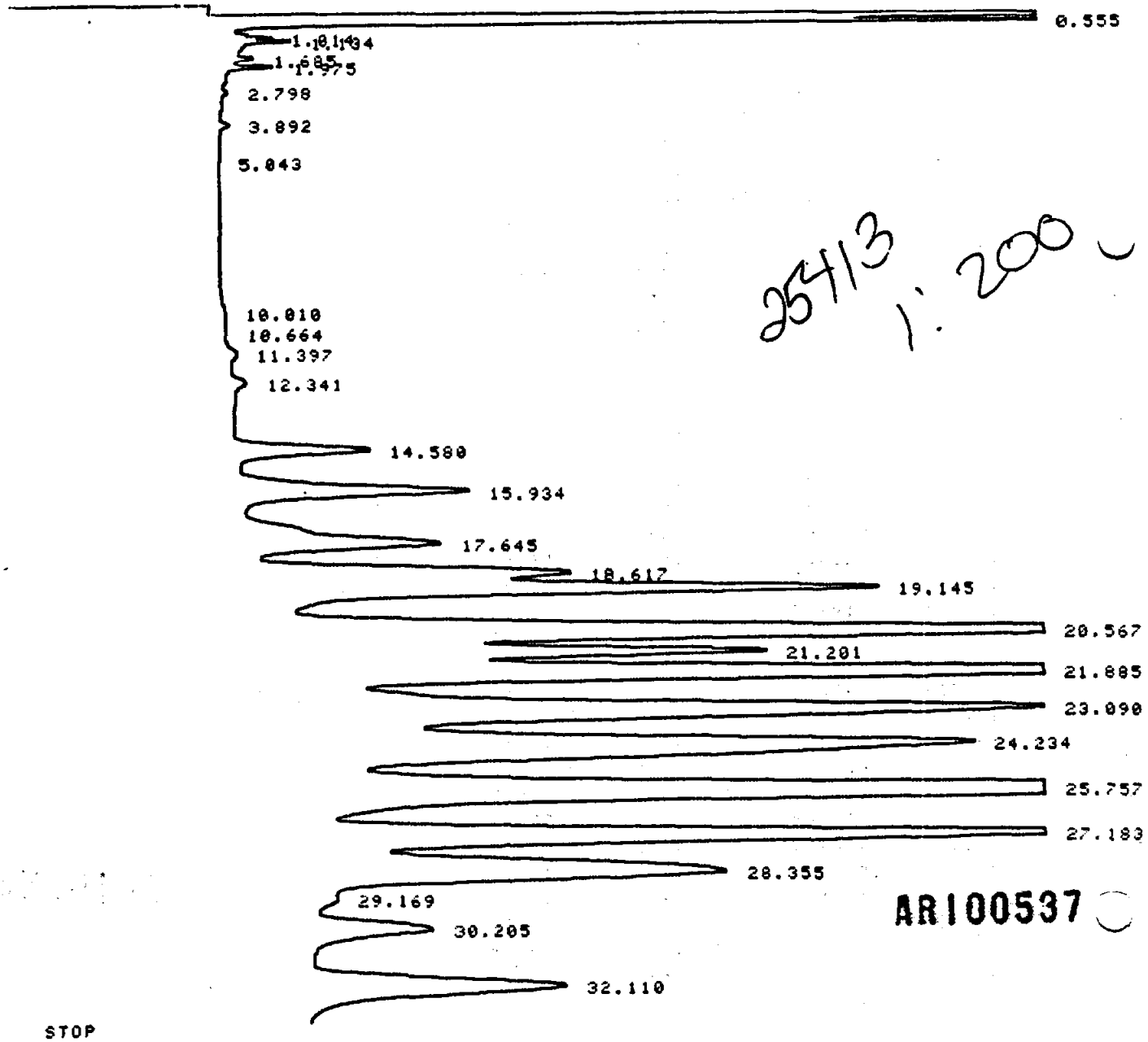
RT	AREA	TYPE	WIDTH	AREA%
.835	16225	BV	.138	.07615
1.145	1104262	VB	.101	5.18238
1.698	188668	PP	.103	.88543
1.995	1326546	PB	.117	6.22558
2.531	50559	BV	.221	.23728
3.010	8968	VV	.195	.04209
3.398	179868	VP	.170	.84413
3.913	30681	PP	.318	.14399
4.480	11518	PV	.195	.05405
5.349	7748	VV	.211	.03636
5.675	18178	VV	.267	.08531
6.582	147179	VP	.258	.69072
7.651	36960	PV	.501	.17346
8.470	6328	VV	.249	.02970
8.774	5979	VP	.238	.02806
9.330	39526	PV	.275	.18550
9.714	66064	VV	.305	.31004
10.155	32906	VV	.288	.15443
10.625	77448	VP	.391	.36347
11.873	112599	PV	.428	.52844
12.370	536869	VP	.348	2.51956
13.990	125426	PV	.527	.58863
14.556	285097	VV	.531	1.33798
15.531	210957	VV	.431	.99004
16.000	544413	VV	.482	2.55497
17.178	315679	VV	.549	1.48150
17.728	545283	VV	.535	2.55905
18.669	735110	VV	.577	3.44992
19.200	973495	VV	.469	4.56868
20.615	2026731	VV	.618	9.51159
21.239	667143	VV	.421	3.13095
21.920	1823209	VV	.489	8.55645
23.126	1438970	VV	.653	6.75319
24.277	1517220	VV	.860	7.12042
25.797	2134562	VB	.459	10.01765
27.513	2838589	BV	.693	13.32170
28.393	529363	VP	.546	2.48434
30.246	157503	PV	.612	.73917
32.136	434190 I	VP	.728	2.03768

TOTAL AREA=2.1308E+07

AR100536

RUN # 1064 JUN 21, 1990 18:30:45

START



25413
1:200

AR100537

STOP

RUN# 1064 JUN 21, 1990 18:30:45

SAMPLE# 14

AREA%

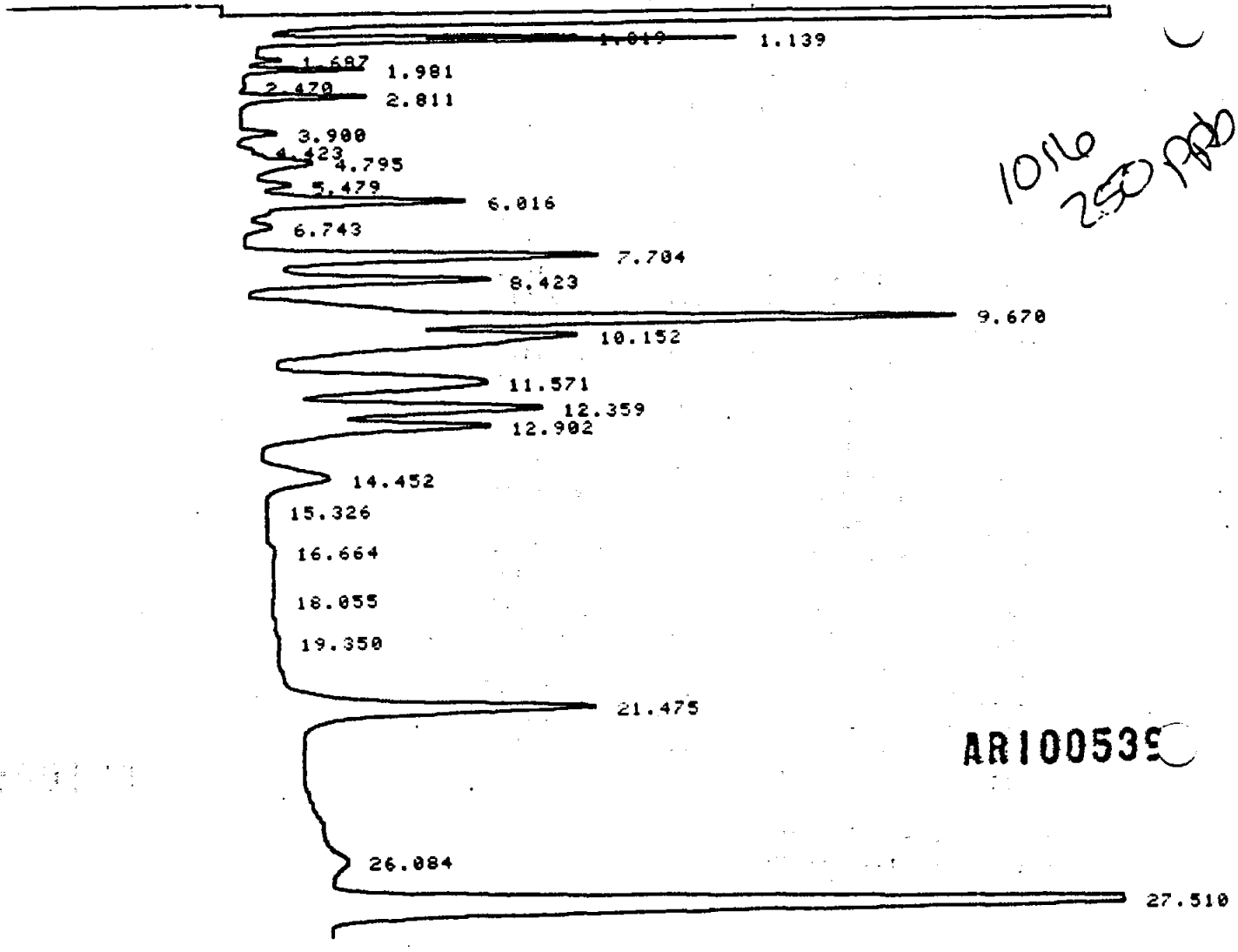
RT	AREA	TYPE	WIDTH	AREA%
.555	96570	BP	.030	.24187
1.014	39094	PV	.115	.09791
1.134	77583	VV	.150	.19431
1.685	41235	VV	.183	.10328
1.975	50153	VV	.125	.12561
2.798	8595	PB	.131	.02153
3.892	17741	BP	.194	.04443
11.397	37993	VV	.409	.09516
12.341	58082	VV	.398	.14547
14.580	403968	PP	.358	1.01177
15.934	793604	PV	.420	1.98765
17.645	875028	VV	.548	2.19158
18.617	1087871	VV	.411	2.72466
19.145	2319989	VV	.448	5.81060
20.567	4178798	VV	.493	10.46615
21.201	1637461	VV	.393	4.10116
21.885	4436310	VV	.455	11.11112
23.090	4114434	VV	.640	10.30495
24.234	4321776	VV	.747	10.82425
25.757	7138352	VV	.488	17.87861
27.183	3457645	VV	.496	8.65996
28.355	2613437	VV	.736	6.54557
29.169	132466	VV	.452	.33177
30.205	605225	VB	.584	1.51584
32.110	1383392	I BP	.652	3.46482

TOTAL AREA=3.9927E+07
MUL FACTOR=1.0000E+00

AR100538

RUN # 1065 JUN 21, 1990 19:08:01

START



1016
250 ppb

AR100539

SAMPLE# 15

AREA%

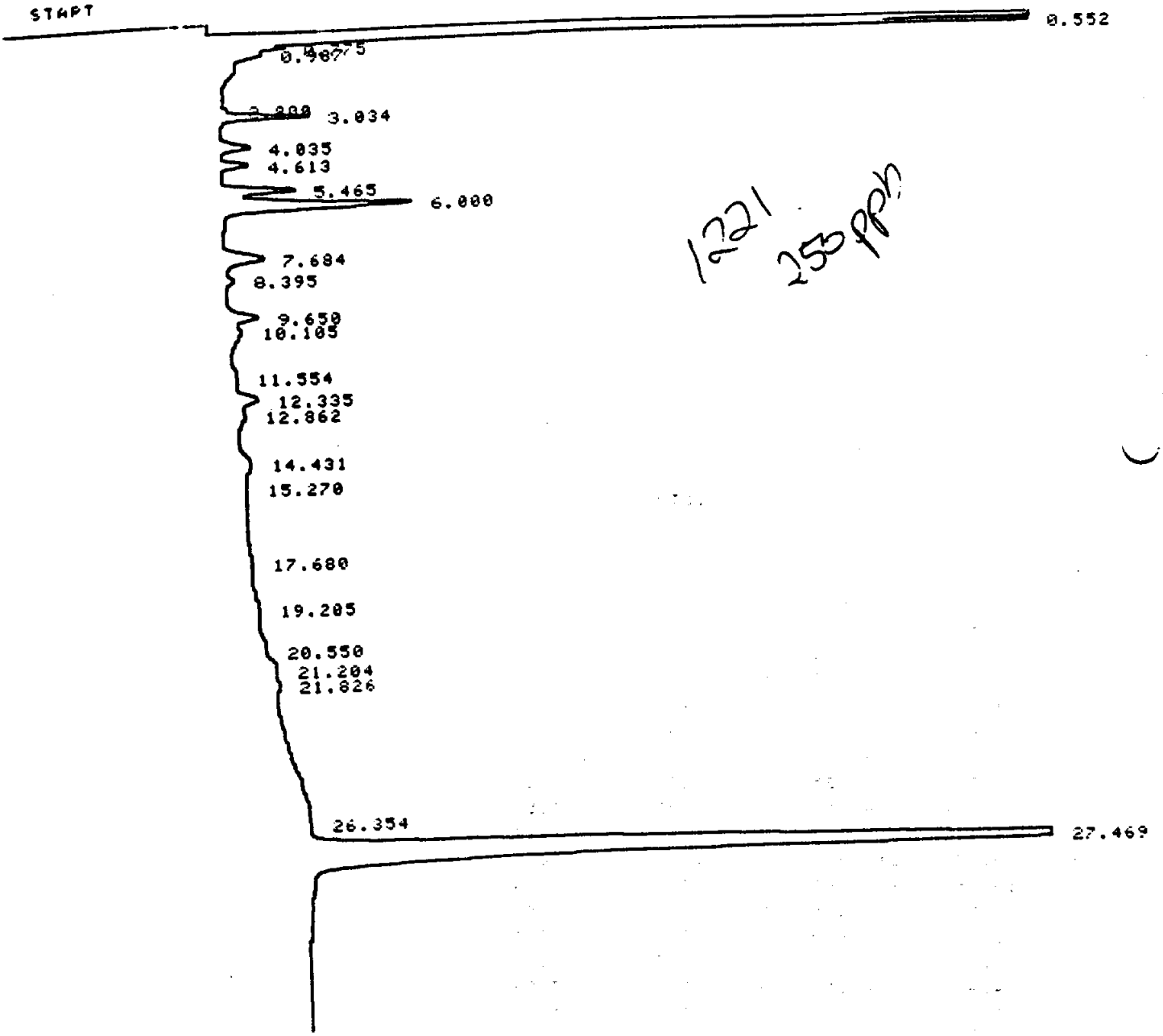
RT	AREA	TYPE	WIDTH	AREA%
1.019	188317	BV	.077	1.27334
1.139	336673	VB	.091	2.27648
1.687	27093	VP	.110	.18319
1.981	96493	PB	.104	.65246
2.811	163331	PP	.164	1.10440
3.900	60105	VP	.192	.40641
4.423	20367	PV	.150	.13772
4.795	243856	VV	.410	1.64888
5.479	115018	VV	.280	.77772
6.016	546955	VV	.311	3.69835
6.743	67925	VP	.283	.45929
7.704	843958	PV	.307	5.70659
8.423	588142	VV	.311	3.97684
9.670	2188941	VV	.397	14.80096
10.152	1385160	VV	.547	9.36604
11.571	1077109	VV	.595	7.28308
12.359	857419	VV	.387	5.79761
12.902	708967	VV	.393	4.79382
14.452	307258	VV	.570	2.07759
15.326	17011	VV	.519	.11502
16.664	34458	VV	.447	.23299
18.055	16990	VP	.614	.11488
19.350	19034	PP	.684	.12870
21.475	1068563	PV	.449	7.22530
26.084	369920	VV	1.432	2.50129
27.510	3347986	VB	.444	22.63807
33.041	92139 I	VH	1.043	.62302

TOTAL AREA=1.4789E+07
MIN FACTOR=1.0000E+00

AR100540

RUN # 1066 JUN 21, 1990 19:45:20

START



STOP

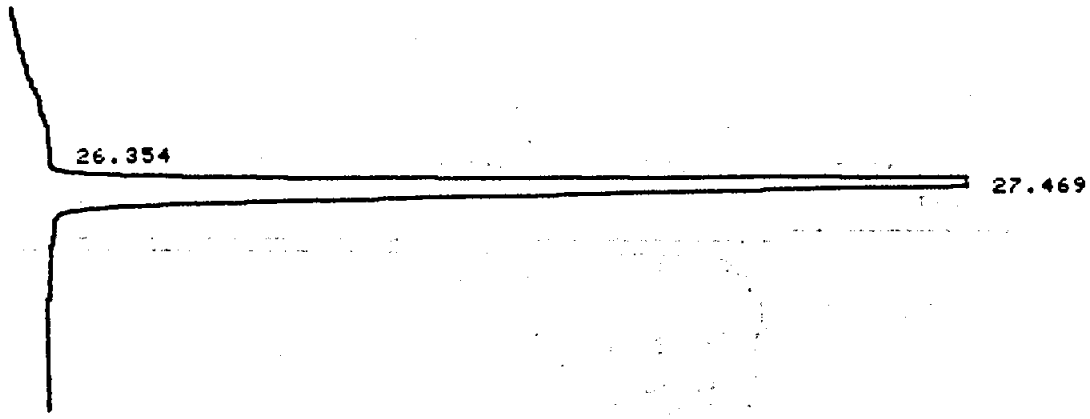
AR100541

RUN# 1066 JUN 21, 1990 19:45:20

SAMPLE# 16

AREA%

RT	AREA	TYPE	WIDTH	AREA%
.552	373831	BP	.08	0.83229



STOP

RUN# 1066 JUN 21, 1990 19:45:20

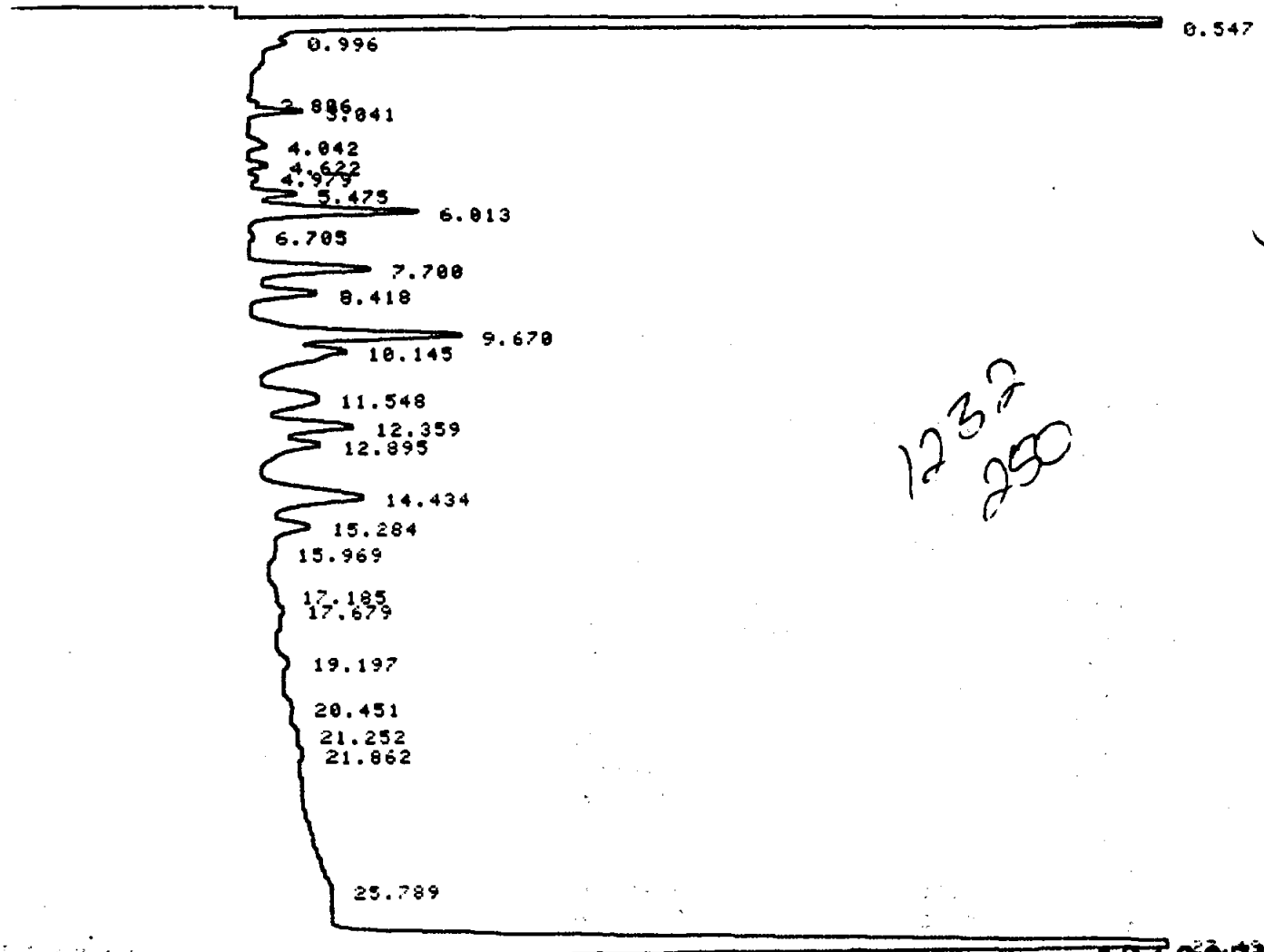
SAMPLE# 16

AREA%

RT	AREA	TYPE	WIDTH	AREA%
.552	373831	BP	.080	6.83229
.775	11439	PP	.081	.20906
.987	6649	PP	.091	.12152
2.800	9629	BV	.126	.17598
3.034	126533	VB	.166	2.31257
4.035	66963	BV	.255	1.22384
4.613	49024	VP	.204	.89598
5.465	137536	VV	.221	2.51366
6.000	469504	VB	.294	8.58084
7.684	130135	PV	.368	2.37840
8.395	27232	VP	.303	.49770
9.650	92385	PV	.348	1.68846
10.105	58760	VP	.474	1.07392
11.554	33302	PV	.586	.60864
12.335	78535	VV	.380	1.43534
12.862	35519	VP	.398	.64916
14.431	59329	PV	.603	1.08432
15.270	16867	VV	.400	.30827
17.680	11125	PP	.598	.20332
19.205	5957	PP	.278	.10887
21.204	11062	PB	.341	.20217
21.826	10108	BP	.306	.18474
26.354	218091	PV	2.330	3.98592
27.469	3432022	VB	.444	62.72501

AR100542

RUN # 1067 JUN 21, 1990 20:22:40
START



1232
250

STOP

RUN# 1067 JUN 21, 1990 20:22:40

SAMPLE# 17

AREA%

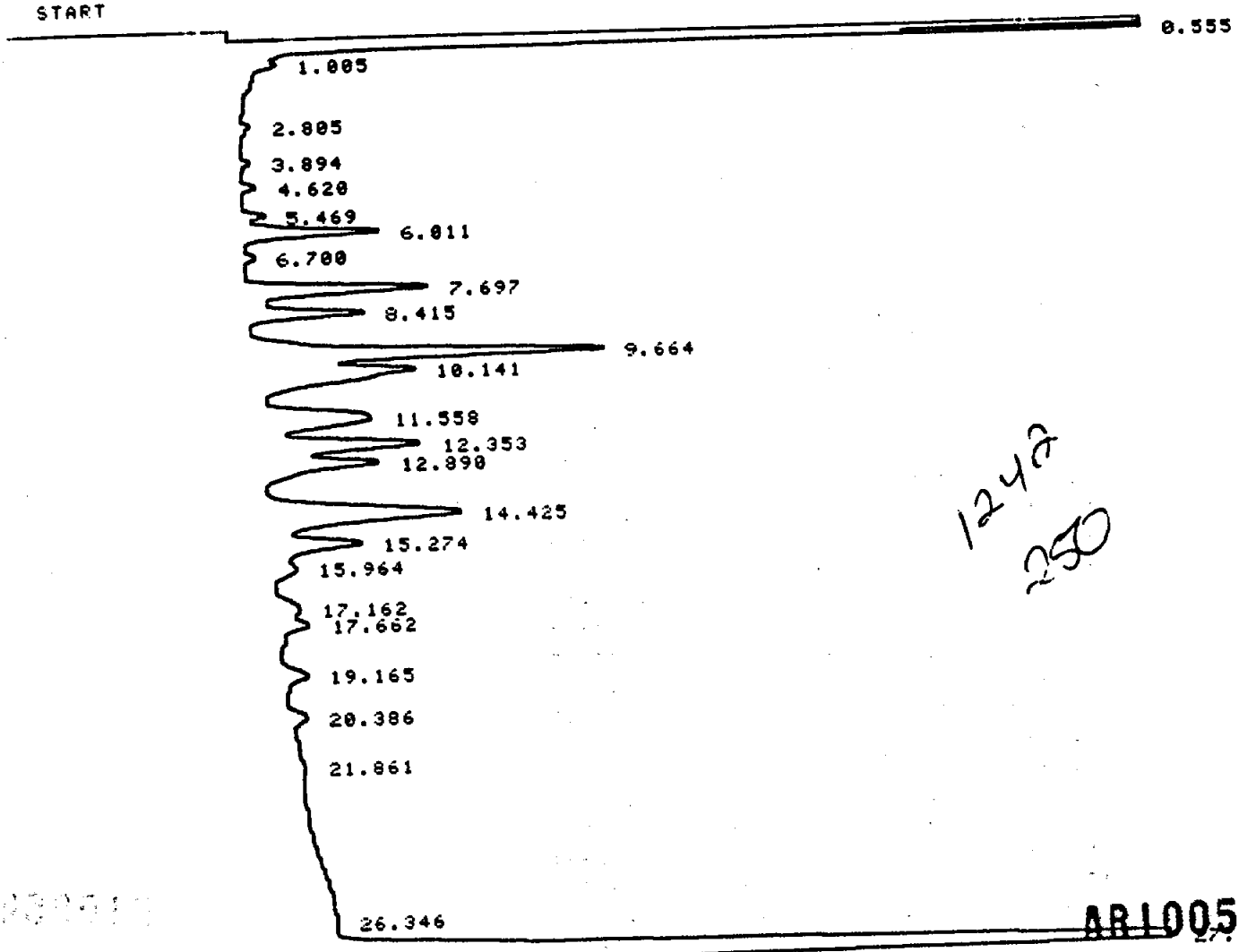
RT	AREA	TYPE	WIDTH	AREA%
.996	16779	PP	.171	.23882
2.806	13022	PV	.142	.18472
3.041	68803	VB	.167	.97601
4.042	46104	BV	.293	.65401
4.622	32462	VV	.197	.46049
4.979	23500	VV	.247	.33336
5.475	84222	VV	.226	1.19473
6.013	370599	VV	.290	5.25714
6.705	15980	VP	.265	.22668
7.700	288800	PV	.315	4.09678
8.418	154759	VP	.301	2.19534
9.670	551467	PV	.350	7.82285
10.145	360381	VV	.512	5.11219
11.548	276618	VV	.583	3.92397
12.359	271728	VV	.381	3.85460
12.895	183946	VV	.398	2.60937
14.434	391135	VV	.514	5.54845
15.284	139279	VV	.409	1.97575
15.969	37351	VP	.461	.52984
17.185	31181	PV	.463	.44232
17.679	37524	VV	.392	.53230
19.197	35831	PP	.424	.50828
20.451	23461	PV	.408	.33281
21.252	28121	VV	.443	.39891
21.862	37239	VV	.504	.52825
25.789	181755	VV	1.608	2.57829
27.497	3347394	VB	.443	47.48453

AR100544

MUL FACTOR=1.0000E+00

RUN # 1068 JUN 21, 1990 21:00:02

START



1242
250

AR100545

AR100545

RUN# 1068 JUN 21, 1990 21:00:02

SAMPLE# 18

AREA%

RT	AREA	TYPE	WIDTH	AREA%
1.005	15329	PP	.154	.16328
2.805	22597	BP	.243	.24069
3.894	19982	PV	.213	.21284
4.620	26582	VP	.204	.28314
5.469	40314	PV	.216	.42941
6.011	291772	VV	.280	3.10783
6.700	25443	VP	.248	.27101
7.697	423606	PV	.305	4.51207
8.415	271735	VV	.305	2.89441
9.664	949807	VV	.356	10.11694
10.141	637717	VV	.519	6.79269
11.558	516466	VV	.594	5.50118
12.353	471636	VV	.388	5.02367
12.890	357965	VV	.401	3.81289
14.425	800730	VV	.546	8.52904
15.274	293831	VV	.417	3.12976
15.964	96263	VV	.482	1.02535
17.162	98387	VV	.500	1.04798
17.662	99535	VV	.397	1.06020
19.165	84805	PP	.431	.90331
20.386	55465	PV	.394	.59079
21.861	58975	VV	.886	.62818
26.346	205468	VV	2.314	2.18856
27.484	3523872	VB	.442	37.53478

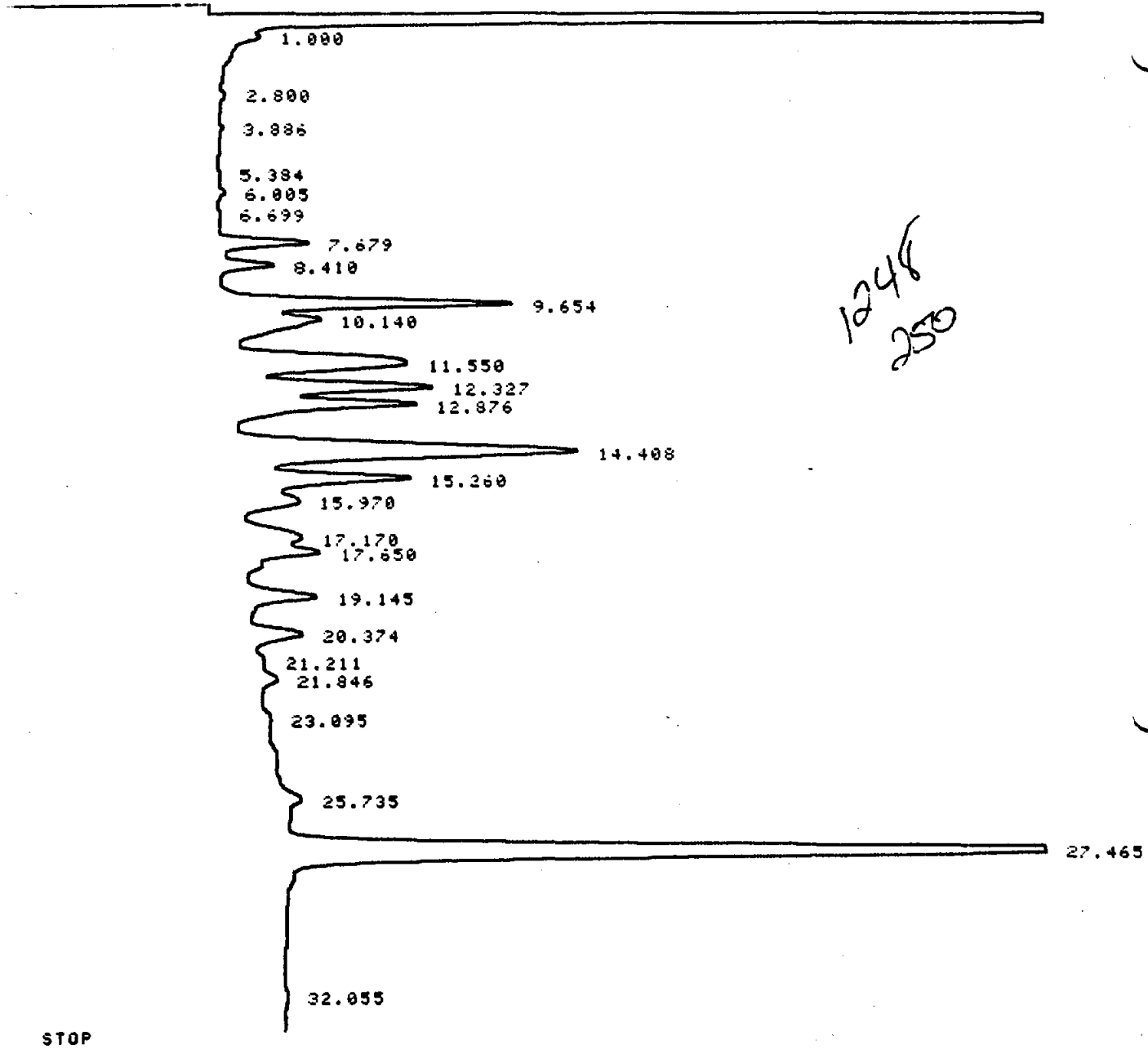
AR100546

TOTAL AREA=9.3883E+06
MUL FACTOR=1.0000E+00

RUN # 1069 JUN 21, 1990 21:37:26
START -

RUN # 1069 JUN 21, 1990 21:37:26

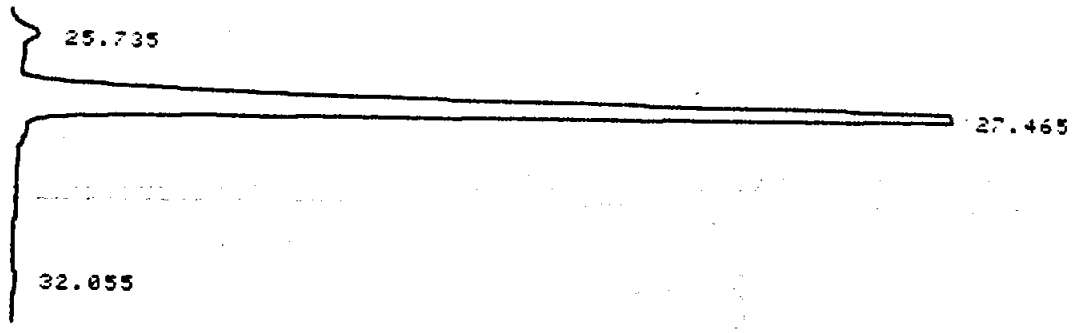
START



1248
250

STOP

RUN# 1069 JUN 21, 1990 21:37:26



STOP

RUN# 1069 JUN 21, 1990 21:37:26

SAMPLE# 19

AREA%

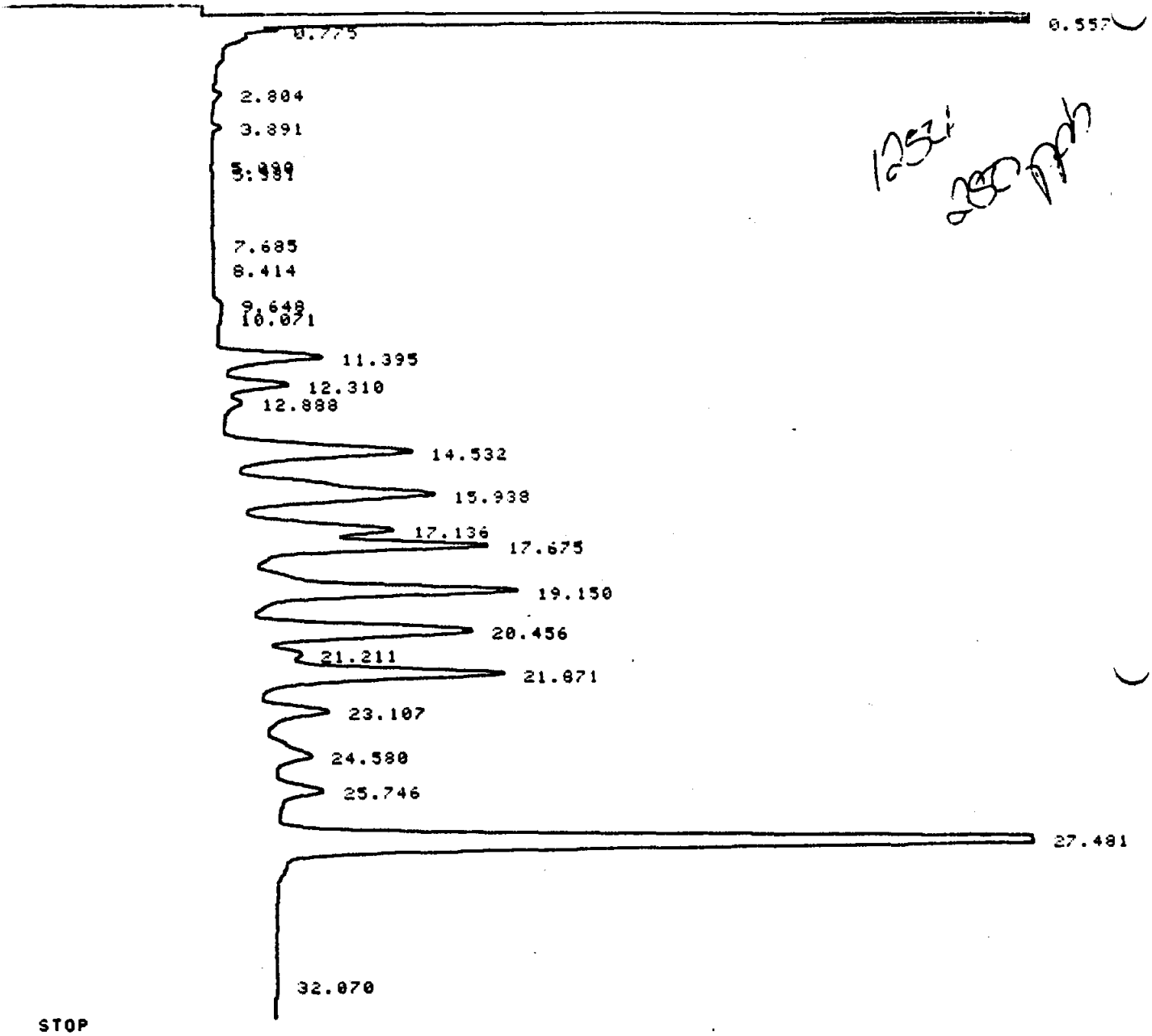
RT	AREA	TYPE	WIDTH	AREA%
2.800	13716	PP	.230	.12629
3.886	11365	PV	.214	.10464
5.384	10233	PV	.329	.09422
6.005	18039	VP	.256	.16609
6.699	8448	PP	.251	.07778
7.679	220332	PV	.294	2.02868
8.410	130231	VP	.286	1.19909
9.654	786587	PV	.326	7.24242
10.140	455834	VV	.560	4.19704
11.550	893548	VV	.595	8.22724
12.327	651254	VV	.386	5.99635
12.876	621291	VV	.401	5.72047
14.408	1540612	VV	.541	14.18502
15.260	605108	VV	.419	5.57147
15.970	262997	VV	.523	2.42152
17.170	261480	VV	.520	2.40755
17.650	257191	VV	.400	2.36806
19.145	243498	VP	.418	2.24198
20.374	178297	PV	.417	1.64165
21.211	34427	VV	.402	.31698
21.846	77369	VP	.461	.71237
23.095	27073	PV	.456	.24927
25.735	201986	VV	1.003	1.85976
27.465	3327594	VB	.442	30.63847
32.055	22328 I	BP	.654	.20558

TOTAL AREA=1.0861E+07
MUL FACTOR=1.0000E+00

AR100548

RUN # 1070 JUN 21, 1990 22:14:53

START



STOP

RUN# 1070 JUN 21, 1990 22:14:53

32.070

STOP

RUN# 1070 JUN 21, 1990 22:14:53

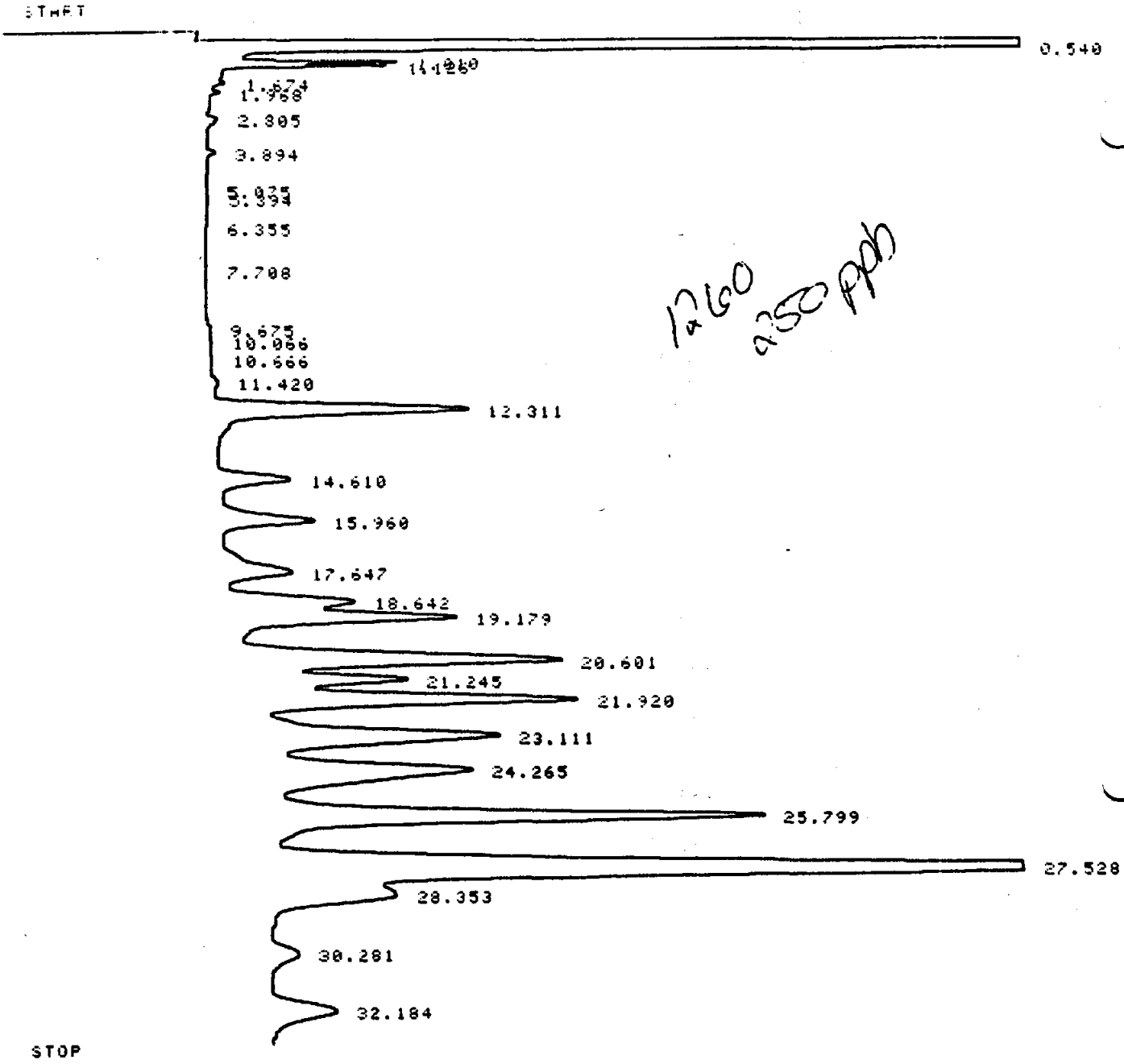
SAMPLE# 20

AREA%

RT	AREA	TYPE	WIDTH	AREA%
.557	307924	BP	.079	2.61825
2.804	18959	BP	.224	.16121
3.891	19472	PV	.206	.16557
5.381	6589	VB	.243	.05603
7.685	6927	VB	.273	.05890
9.648	24070	PV	.353	.20467
10.071	19674	VV	.369	.16729
11.395	340112	PV	.386	2.89195
12.310	208559	VV	.361	1.77336
12.888	73350	VP	.409	.62369
14.532	797325	PV	.513	6.77959
15.938	1038681	VV	.611	8.83183
17.136	632324	VV	.482	5.37660
17.675	873123	VV	.420	7.42410
19.150	1116083	VV	.487	9.48996
20.456	923179	VV	.498	7.84972
21.211	145290	VV	.361	1.23539
21.871	953647	VV	.460	8.10879
23.107	250141	VV	.446	2.12693
24.580	220328	VV	.602	1.87343
25.746	202180	VV	.486	1.71912
27.481	3559390	VB	.448	30.26522
32.070	23337 I	PP	.738	.19843

TOTAL AREA=1.1761E+07
MUL FACTOR=1.0000E+00

AR100550


START
0.540
1.674
1.968
2.305
3.894
5.035
5.394
6.355
7.708
9.675
10.066
10.666
11.420
12.311
14.610
15.960
17.647
18.642
19.179
20.601
21.245
21.920
23.111
24.265
25.799
27.528
28.353
30.281
32.184
STOP
1260
250 ppb

AR100551

32.184

STOP

RUN# 1071 JUN 21, 1990 22:52:21

SAMPLE# 21

AREA%

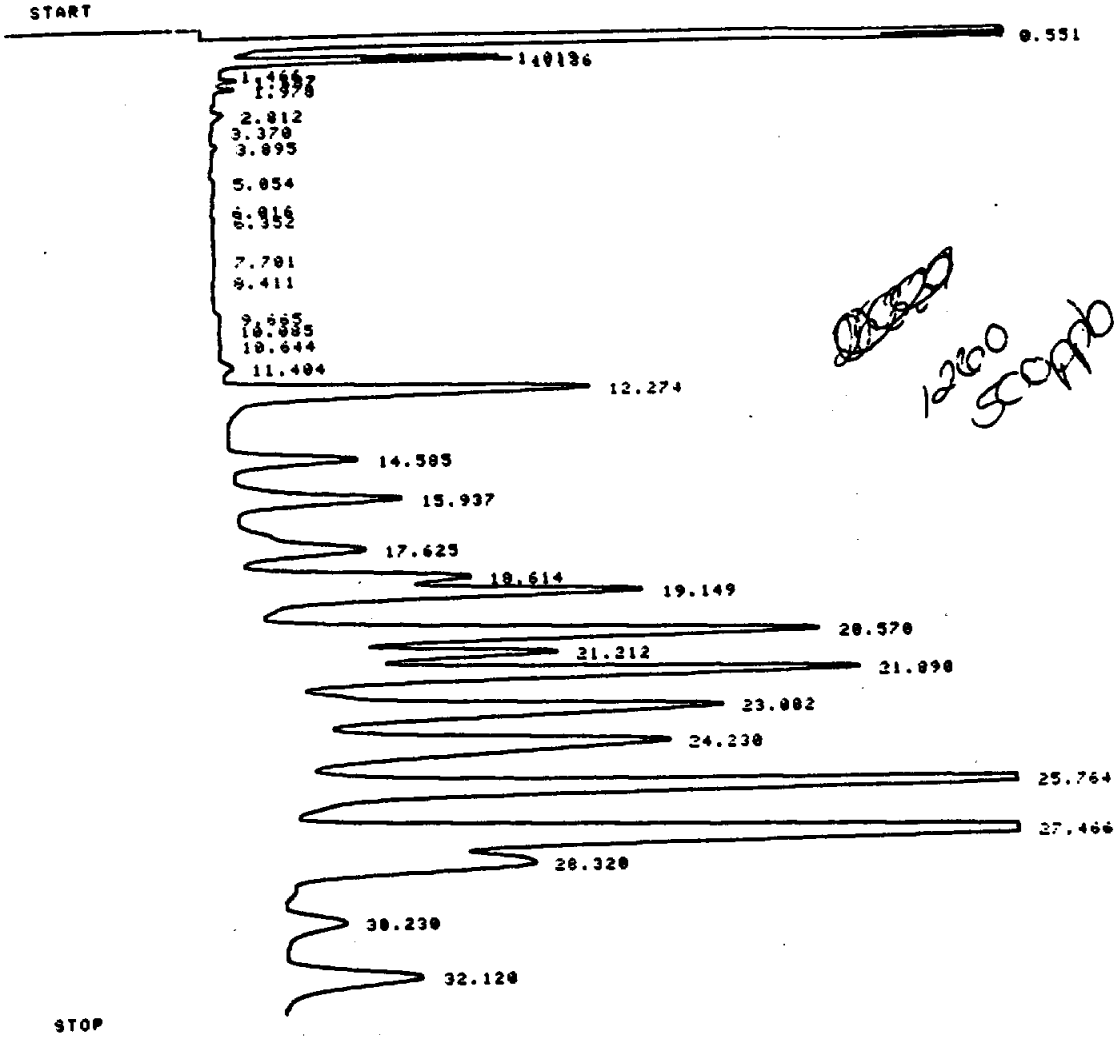
RT	AREA	TYPE	WIDTH	AREA%
1.010	109432	PV	.081	.68864
1.126	110859	VP	.084	.69762
1.674	9827	VP	.110	.06184
1.968	5942	PB	.072	.03676
2.805	22914	BV	.245	.14420
3.894	18877	PV	.205	.11879
5.075	6690	PV	.230	.04210
5.394	8880	VV	.268	.05588
9.675	13272	PV	.342	.08352
10.066	11051	VV	.323	.06954
10.666	9205	VP	.323	.05793
11.420	17346	PP	.310	.10916
12.311	799846	PB	.378	5.03334
14.610	232401	PV	.381	1.46298
15.960	329000	VP	.418	2.07036
17.647	293479	PP	.530	1.84683
18.642	422479	PV	.406	2.65861
19.179	791757	VV	.421	4.98243
20.601	1265107	VV	.469	7.96117
21.245	527962	VV	.387	3.32240
21.920	1188981	VV	.429	7.48212
23.111	1160495	VV	.566	7.30286
24.265	1147960	VV	.652	7.22398
25.799	1842387	VB	.445	11.59392
27.528	4372650	BV	.520	27.51657
29.353	658789	VP	.631	4.14568
30.281	147821	PP	.580	.93022
32.184	365584 I	PP	.649	2.30058

TOTAL AREA=1.5891E+07
MUL FACTOR=1.0000E+00

AR100552

TOTAL AREA=1.5891E+07
MUL FACTOR=1.0000E+00

RUN # 1072 JUN 21, 1990 23:29:50
START



1260
5000

STOP

RUN# 1072 JUN 21, 1990 23:29:50

SAMPLE# 22

AR100553