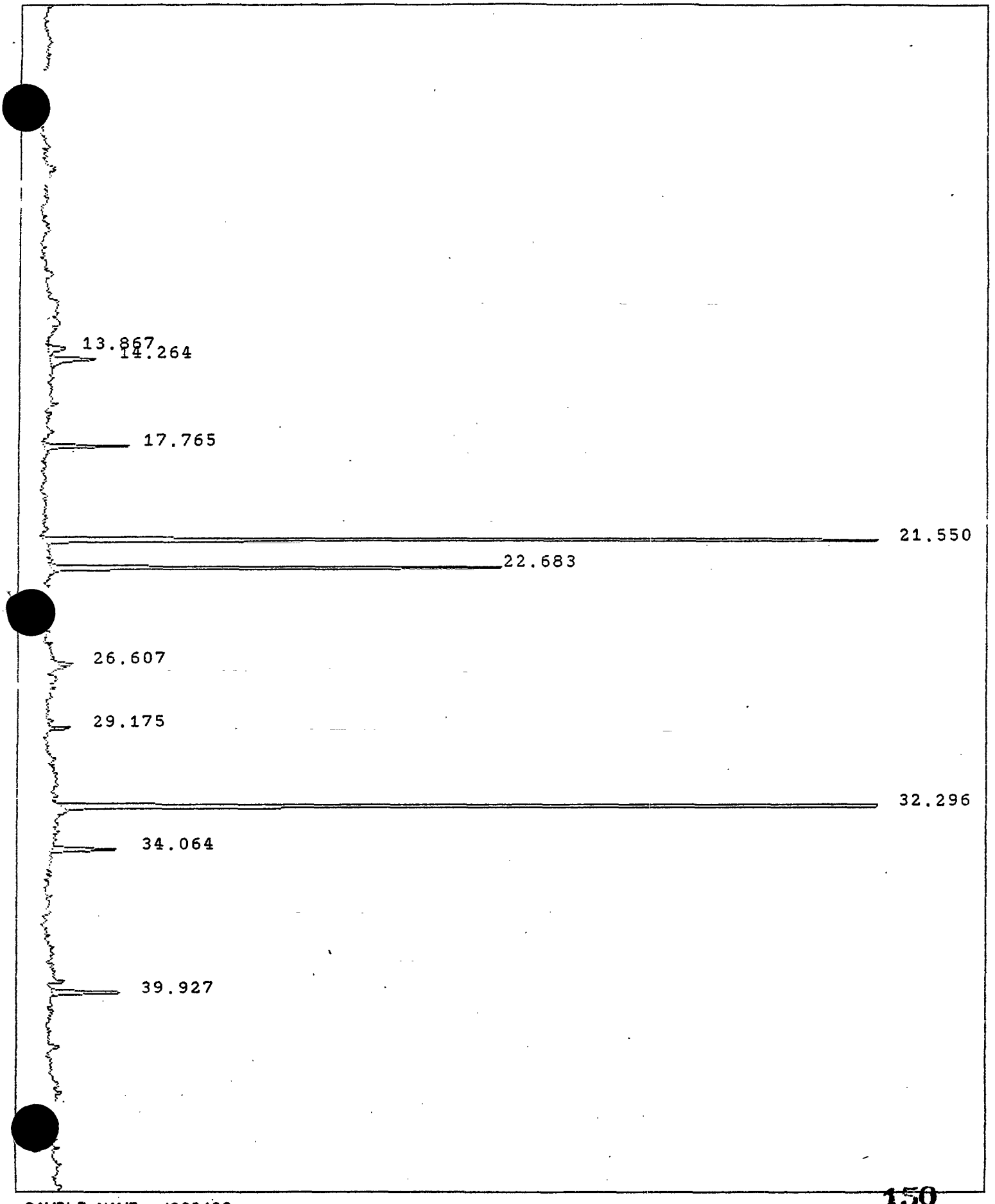
131794



150

SAMPLE NAME: 1868482
Resultfile: /CAP/RESULT/P08_265_429.RES
Plot Fields: 6910 - 7310 Instrument - TRACOR540#8PID

AR303559

Sample Name: 1868482
Batch # 92265/A08 Injected on Thu Sep 24, 1992 5:52:51 pm

Instrument: TRACOR540#8PID Employee #
Calculation: InternalSTD Quantitation: HeightUnits
Re Itfile: /CAP/RESULT/P08_265_429.RES
Me .odfile: /CAP/METHOD/P08_265NSSI.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - PID Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

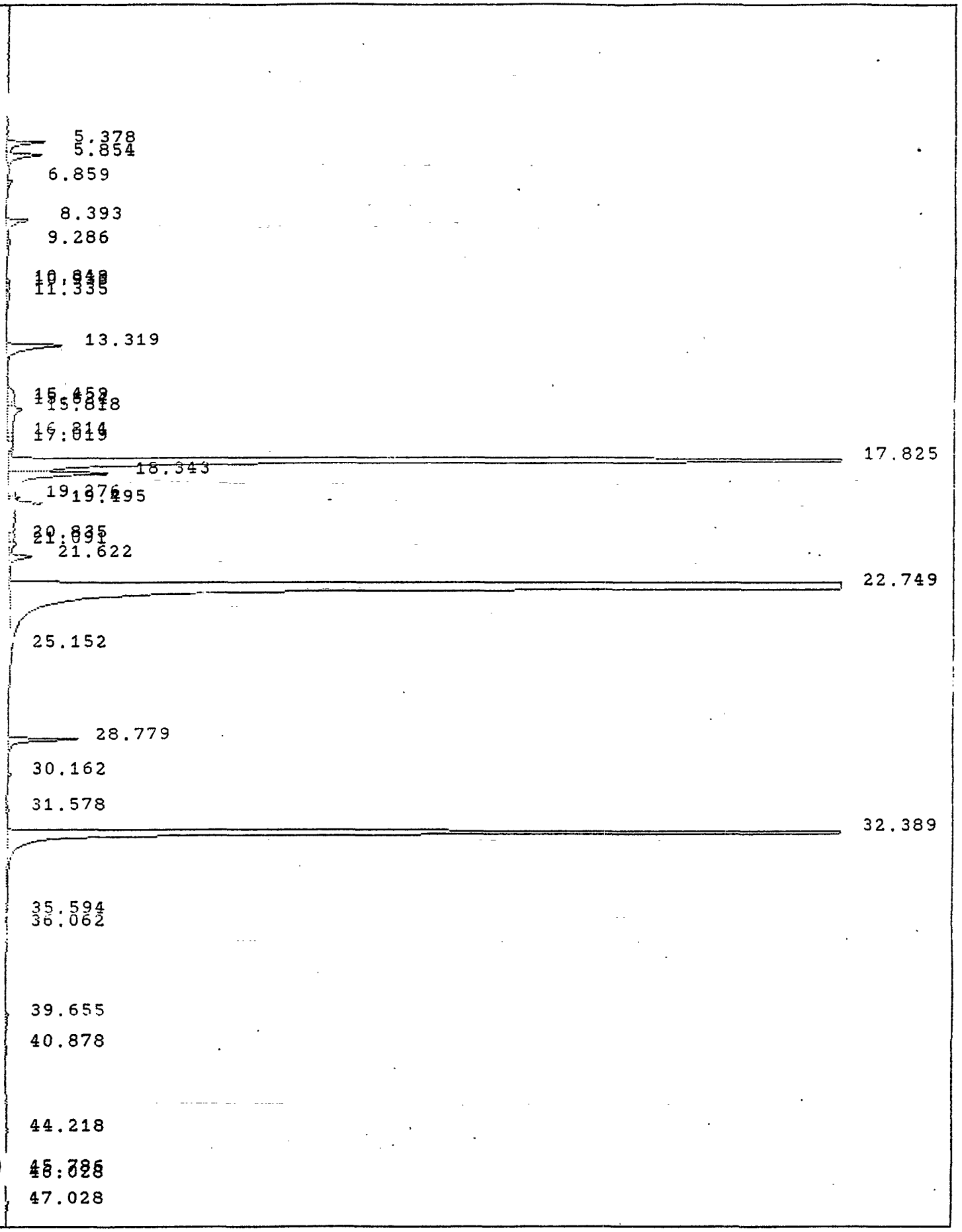
Integration Parameters: Run Time - 48.00
Threshold - 3.0 Minimum Area - 2.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Timed Events	Time	Event	Logic	Value	EventUpdate
1	27.500	SetPeakWidth	Event	.00	False
2	28.500	SetPeakWidth	Event	.00	False
3	30.100	SetPeakWidth	Event	.00	False

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
2	14.26	#14.21	91	1037	VV	.67	TRANS-1,2-DICHLOROETHENE
3	17.77	#17.87	173	1195	PV	2.51	CIS-1,2-DICHLOROETHENE
4	21.55	#21.62	2061	12521	PV	117.38	SURR-FBENZENE
5	22.68	#22.75	1021	5907	VV	9.24	TRICHLOROETHENE
8	32.30	#32.32	3182	16514	BV		ISTD-1CL2FBENZENE

Internal Standard Range: 3107 - 4660 (Midpoint - 3884)

Using check standard file. /CAP/RESULT/P08_265_412.RES
Reported on Thu Sep 24, 1992 6:45:54 pm
Report Formatfile: /DATA/FORMAT/CAPPID.FMT



SAMPLE NAME: 1868483
Resultfile: /CAP/RESULT/H08_265_422.RES
Plot Fields: 500 - 3000 Instrument - TRACOR540#8HALL

AR303561

Sample Name: 1868483
Batch # 92265/A08 Injected on Thu Sep 24, 1992 10:03:54 am

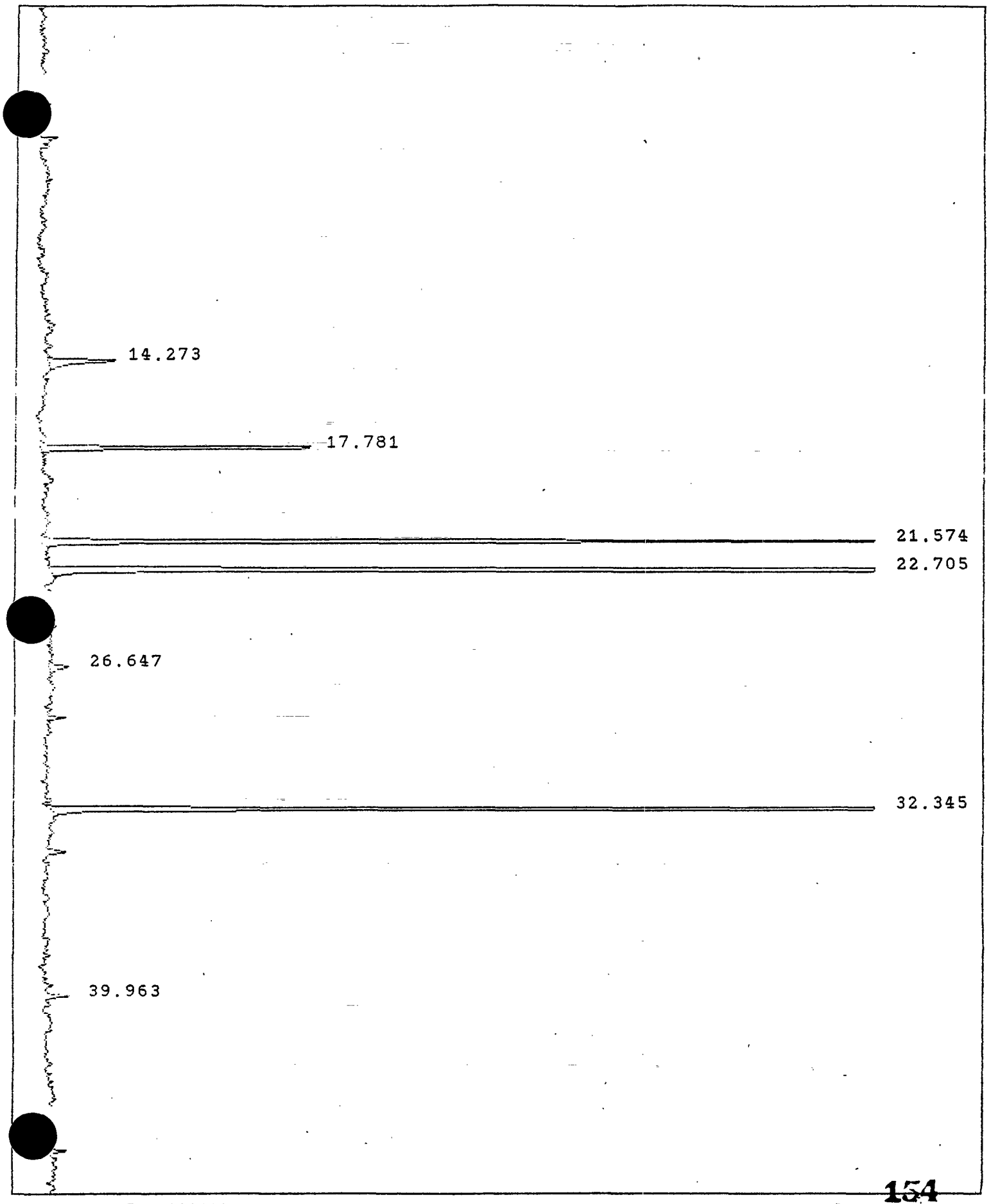
Instrument: TRACOR540#8HALL Employee #439
Calculation: ExternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/H08_265_422.RES
Methodfile: /CAP/METHOD/H08_265N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - Hall Detector
HP 3350A LAS V D 00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 5.00

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
3	6.86	6.94	61	836	VV	.17	VINYL CHLORIDE
5	9.29	9.29	33	859	VV	.08	TRICHLOROFLUOROMETHANE
8	11.34	#11.40	35	852	VB	.13	1,1-DICHLOROETHENE
9	13.32	#13.40	664	8411	BV	.60	METHYLENE CHLORIDE
12	15.82	#15.85	166	5508	VV	.30	1,1-DICHLOROETHANE
15	17.82	#17.89	27586	217050	VV	30.58	CIS-1,2-DICHLOROETHENE
16	18.34	#18.38	1207	18085	VV	.86	CHLOROFORM
18	19.49	#19.48	402	4595	VV	.58	1,1,1-TRICHLOROETHANE
20	21.09	#21.07	91	1523	VV	.11	1,2-DICHLOROETHANE
22	22.75	#22.78	186169	1426429	PV	194.81	TRICHLOROETHENE
24	28.78	#28.76	849	7264	BV	1.24	TETRACHLOROETHENE
25	30.16	#30.31	47	229	PV	.87	ETHYLENE DIBROMIDE
26	31.58	#31.57	31	183	BV	.11	CHLOROBENZENE
27	32.39	#32.37	23460	171350	BV	~~418.99~~	SURR-1CL2FBENZENE 84
2	35.59	#35.51	20	300	PV	.03	1,1,2,2-TETRACHLOROETHANE
2	36.06	#35.97	15	154	PV	.03	1,2,3-TRICHLOROPROPANE
30	39.65	#39.58	30	357	PV	.05	P-DICHLOROBENZENE
31	40.88	#40.80	15	210	BB	.03	O-DICHLOROBENZENE

Reported on Thu Sep 24, 1992 10:54:02 am
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT

JLW439
9-24-92



SAMPLE NAME: 1868483
Resultfile: /CAP/RESULT/P08_265_422.RES
Plot Fields: 6910 - 7310 Instrument - TRACOR540#8PID

Sample Name: 1868483
Batch # 92265/A08 Injected on Thu Sep 24, 1992 10:03:54 am

Instrument: TRACOR540#8PID Employee #439
Calculation: InternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/P08_265_422.RES
Methodfile: /CAP/METHOD/P08_265NSSI.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - PID Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.00
Threshold - 3.0 Minimum Area - 2.000E+02
Peak Width - .10000 Dilution Factor - 5.00

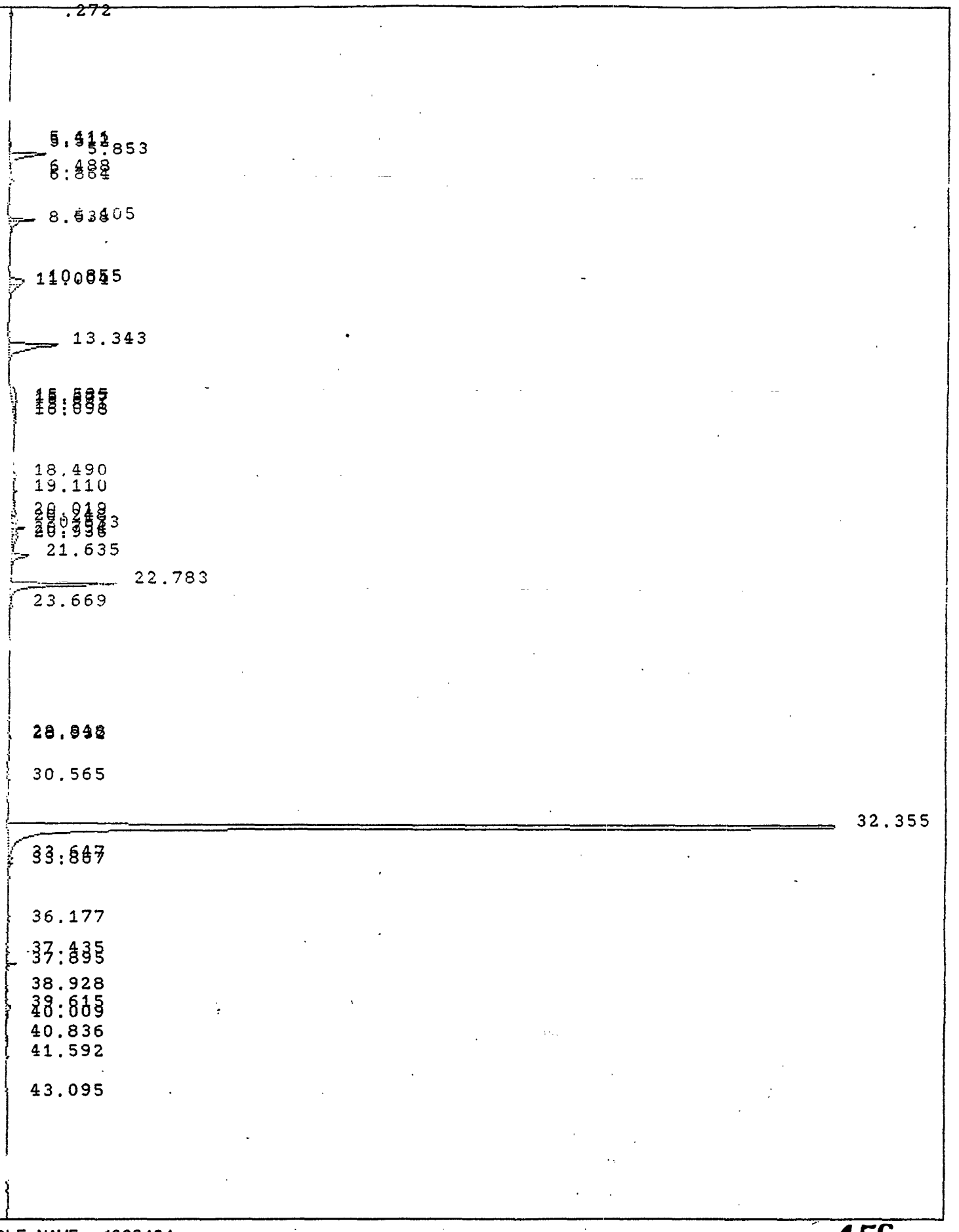
Timed Events	Time	Event	Logic	Value	EventUpdate
1	27.500	SetPeakWidth	Event	.00	False
2	28.500	SetPeakWidth	Event	.00	False
3	30.100	SetPeakWidth	Event	.00	False

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
1	14.27	#14.21	128	1535	PV	4.08	TRANS-1,2-DICHLOROETHENE
2	17.78	#17.87	645	4062	PV	37.66	CIS-1,2-DICHLOROETHENE
3	21.57	#21.62	2524	15393	PV	~~624.70~~	SURR-FBENZENE 125
4	22.70	#22.75	7078	39898	PV	318.35	TRICHLOROETHENE
5	26.65	#26.81	40	452	PV	.89	TOLUENE
6	32.35	#32.32	3662	19077	BB		ISTD-1CL2FBENZENE

Internal Standard Range: 3107 - 4660 (Midpoint - 3884)

JEW439
9-24-92

Using check standard file. /CAP/RESULT/P08_265_412.RES
Reported on Thu Sep 24, 1992 10:56:23 am
Report Formatfile: /DATA/FORMAT/CAPPID.FMT



SAMPLE NAME: 1868484

Resultfile: /CAP/RESULT/H08_265_423.RES

Plot Fields: 500 - 3000 Instrument - TRACOR540#8

AR303565

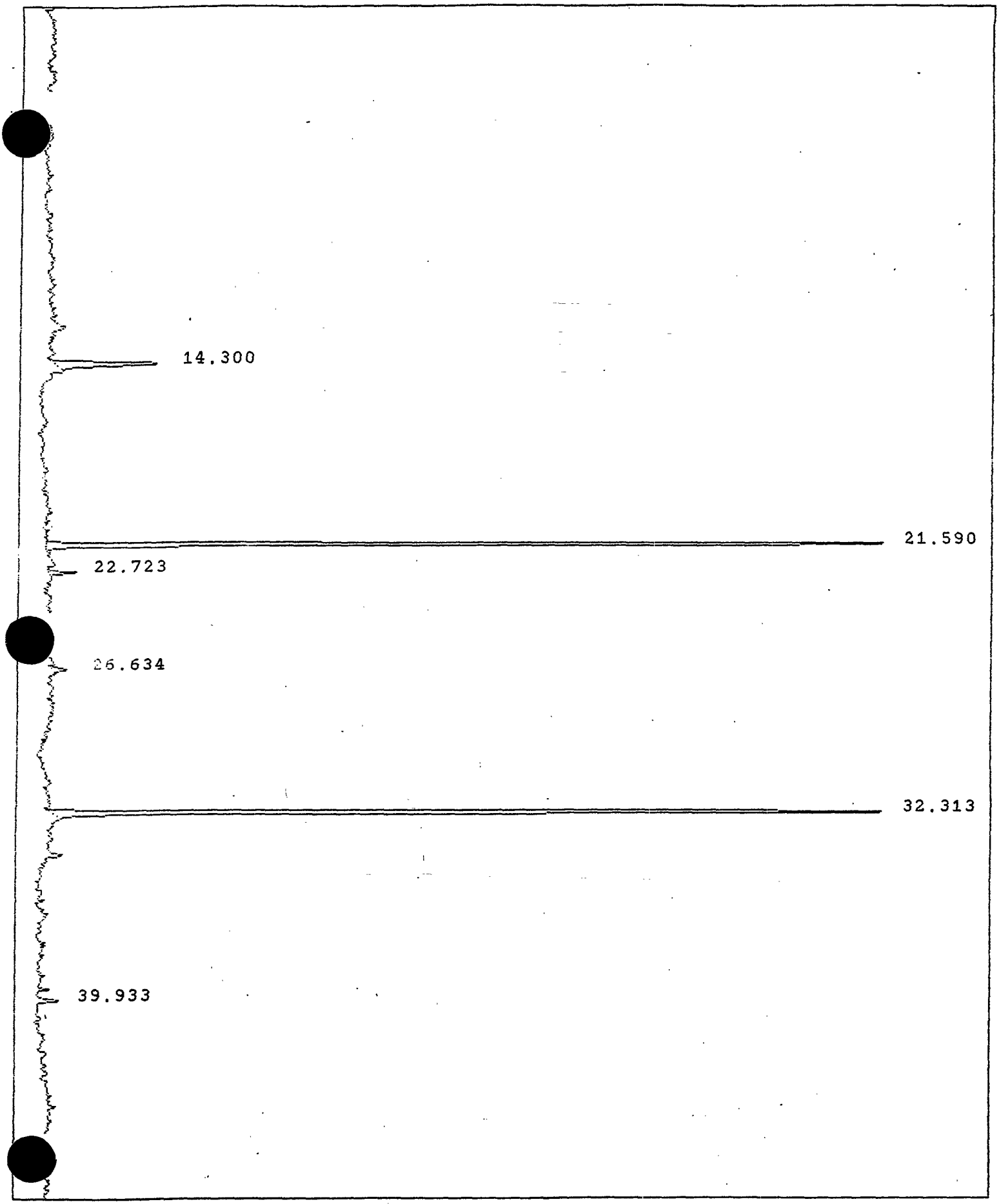
Sample Name: 1868484
Batch # 92265/A08 Injected on Thu Sep 24, 1992 11:11:55 am

Instrument: TRACOR540#8HALL Employee #439
Calculation: ExternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/H08_265_423.RES
Methodfile: /CAP/METHOD/H08_265N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
6	6.86	6.94	61	707	VV	.03	VINYL CHLORIDE
8	8.54	8.62	116	1277	VB	.09	CHLOROETHANE
11	13.34	#13.40	591	7743	BV	.11	METHYLENE CHLORIDE
14	15.88	#15.85	39	323	VV	.01	1,1-DICHLOROETHANE
16	18.49	#18.38	29	488	BV	.00	CHLOROFORM
19	20.25	#20.17	57	675	VV	.02	CARBON TETRACHLORIDE
22	20.94	#21.07	74	1407	VV	.02	1,2-DICHLOROETHANE
24	22.78	#22.78	1309	11122	BV	.41	TRICHLOROETHENE
27	28.93	#28.76	23	121	VV	.01	TETRACHLOROETHENE
29	32.35	#32.37	24385	180799	BV	87.10	SURR-1CL2FBENZENE
32	36.18	#35.97	36	199	VB	.01	1,2,3-TRICHLOROPROPANE
35	38.93	#39.16	26	159	VV	.01	M-DICHLOROBENZENE
36	39.61	#39.58	56	707	VV	.02	P-DICHLOROBENZENE
38	40.84	#40.80	19	202	PV	.01	O-DICHLOROBENZENE

Reported on Thu Sep 24, 1992 12:02:06 pm
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT



SAMPLE NAME: 1868484
Resultfile: /CAP/RESULT/P08_265_423.RES
Plot Fields: 6910 - 7310 Instrument - TRACOR540#8PID

AR303567

Sample Name: 1868484
Batch # 92265/A08 Injected on Thu Sep 24, 1992 11:11:55 am

Instrument: TRACOR540#8PID Employee #439
C ulation: InternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/P08_265_423.RES
Methodfile: /CAP/METHOD/P08_265NSSI.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - PID Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.00
Threshold - 3.0 Minimum Area - 2.000E+02
Peak Width - .10000 Dilution Factor - 1.00

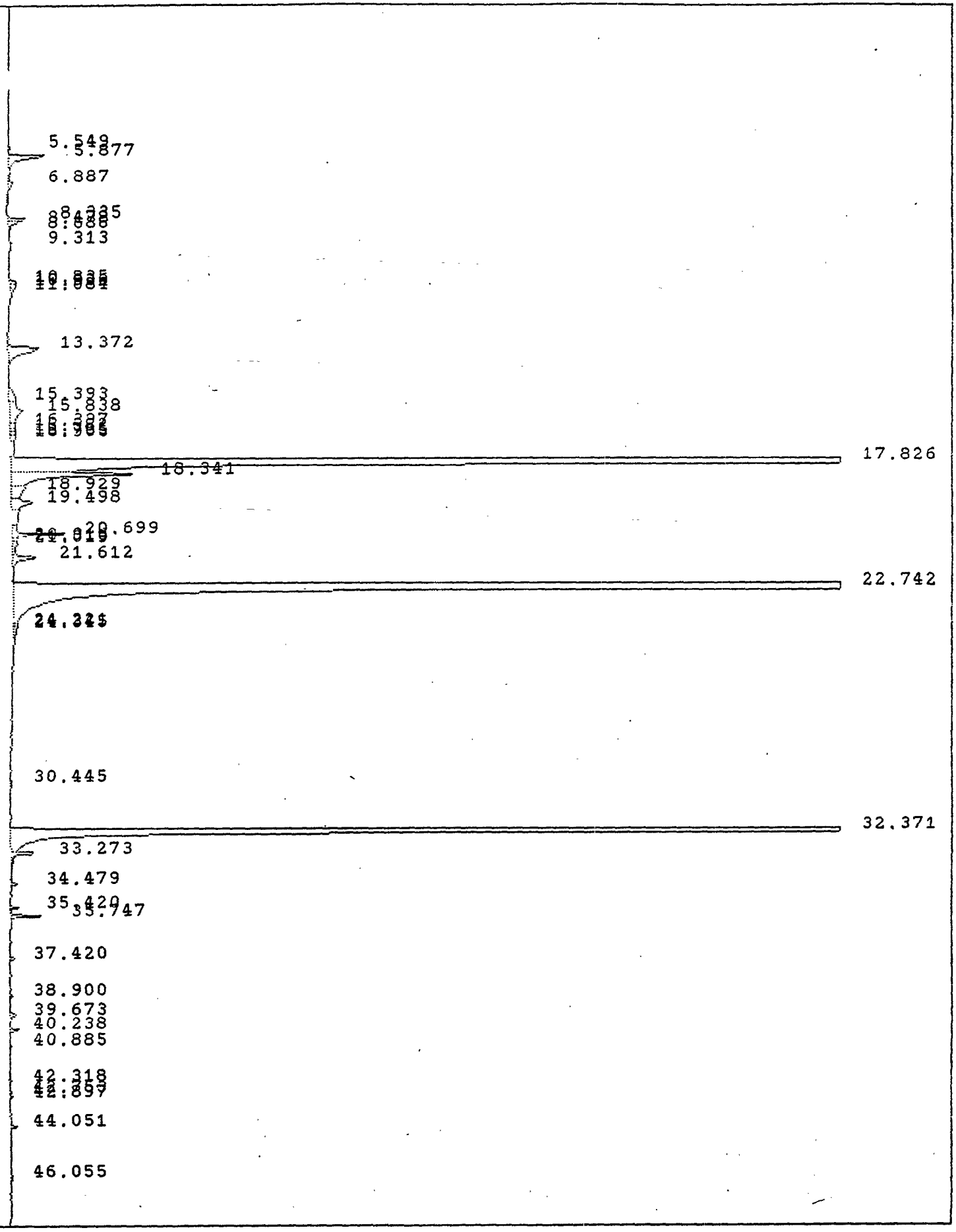
Timed Events	Time	Event	Logic	Value	EventUpdate
1	27.500	SetPeakWidth	Event	.00	False
2	28.500	SetPeakWidth	Event	.00	False
3	30.100	SetPeakWidth	Event	.00	False

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
1	14.30	#14.21	207	2289	PV	1.34	TRANS-1,2-DICHLOROETHENE
2	21.59	#21.62	2380	14394	PV	122.21	SURR-FBENZENE
3	22.72	#22.75	55	374	PV	.51	TRICHLOROETHENE
4	26.63	#26.81	35	293	VV	.16	TOLUENE
5	32.31	#32.32	3529	18404	BB		ISTD-1CL2FBENZENE

Internal Standard Range: 3107 - 4660 (Midpoint - 3884)

Using check standard file. /CAP/RESULT/P08_265_412.RES
Reported on Thu Sep 24, 1992 12:04:06 pm
Report Formatfile: /DATA/FORMAT/CAPPID.FMT

AP303568



SAMPLE NAME: 1868485
Resultfile: /CAP/RESULT/H08_265_425.RES
Plot Fields: 500 - 3000 Instrument - TRACOR540#8HALL

AR303569

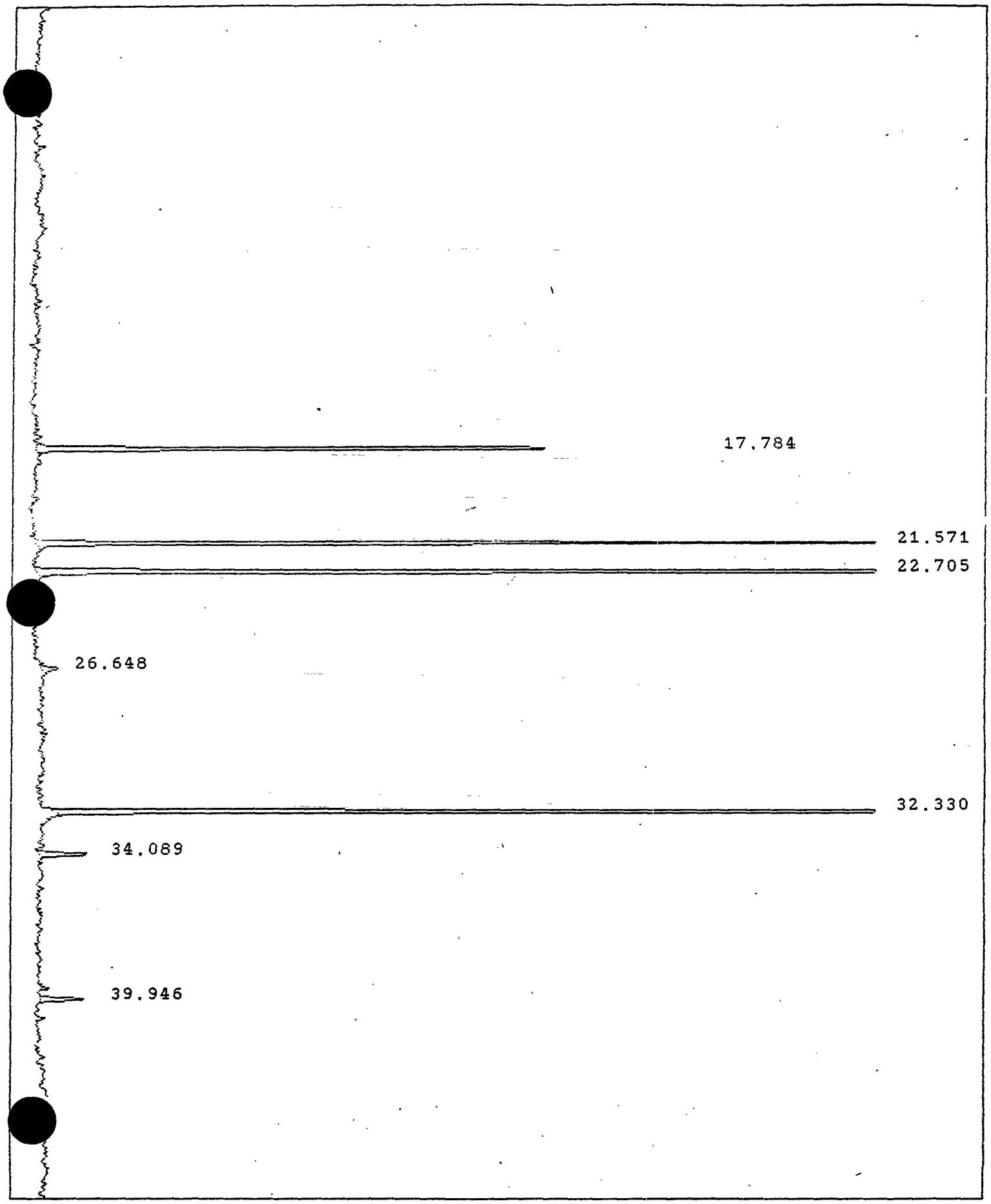
Sample Name: 1868485
Batch # 92265/A08 Injected on Thu Sep 24, 1992 1:25:32 pm

Instrument: TRACOR540#8HALL Employee #439
Calculation: ExternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/H08_265_425.RES
Methodfile: /CAP/METHOD/H08_265N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 10.00

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
2	5.88	5.96	460	5118	VV	3.95	DICHLORODIFLUOROMETHANE
3	6.89	6.94	60	1174	VB	.34	VINYL CHLORIDE
6	8.69	8.62	31	236	VV	.24	CHLOROETHANE
7	9.31	9.29	18	140	BV	.09	TRICHLOROFLUOROMETHANE
11	13.37	#13.40	358	6249	BV	.65	METHYLENE CHLORIDE
13	15.84	#15.85	160	4917	VV	.57	1,1-DICHLOROETHANE
18	17.83	#17.89	51534	411670	VV	106.66	CIS-1,2-DICHLOROETHENE
19	18.34	#18.38	1469	20352	VV	2.09	CHLOROFORM
20	18.93	#18.91	169	3419	VV	.72	BROMOCHLOROMETHANE
21	19.50	#19.48	242	3769	VV	.70	1,1,1-TRICHLOROETHANE
23	20.92	#21.07	68	455	VV	.16	1,2-DICHLOROETHANE
26	22.74	#22.78	114034	839875	BV	229.98	TRICHLOROETHENE
27	24.22	#24.25	51	304	VV	.17	BROMODICHLOROMETHANE
29	30.44	#30.31	16	175	BV	.59	ETHYLENE DIBROMIDE
[illegible]	32.37	#32.37	24052	177133	PV	~~859.13~~	SURR-1CL2FBENZENE 86
[illegible]	35.42	#35.51	119	381	BV	.42	1,1,2,2-TETRACHLOROETHANE
34	35.75	#35.97	469	1891	VV	1.83	1,2,3-TRICHLOROPROPANE
37	39.67	#39.58	90	713	BV	.32	P-DICHLOROBENZENE
39	40.89	#40.80	15	245	BV	.07	O-DICHLOROBENZENE

Reported on Thu Sep 24, 1992 2:16:08 pm
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT



SAMPLE NAME: 1868485
Resultfile: /CAP/RESULT/P08_265_425.RES
Plot Fields: 6910 - 7310 Instrument - TRACOR540#8PID

AR303571

Sample Name: 1868485
Batch # 92265/A08 Injected on Thu Sep 24, 1992 1:25:32 pm

Instrument: TRACOR540#8PID Employee #439
C ulation: InternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/P08_265_425.RES
Methodfile: /CAP/METHOD/P08_265NSSI.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - PID Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

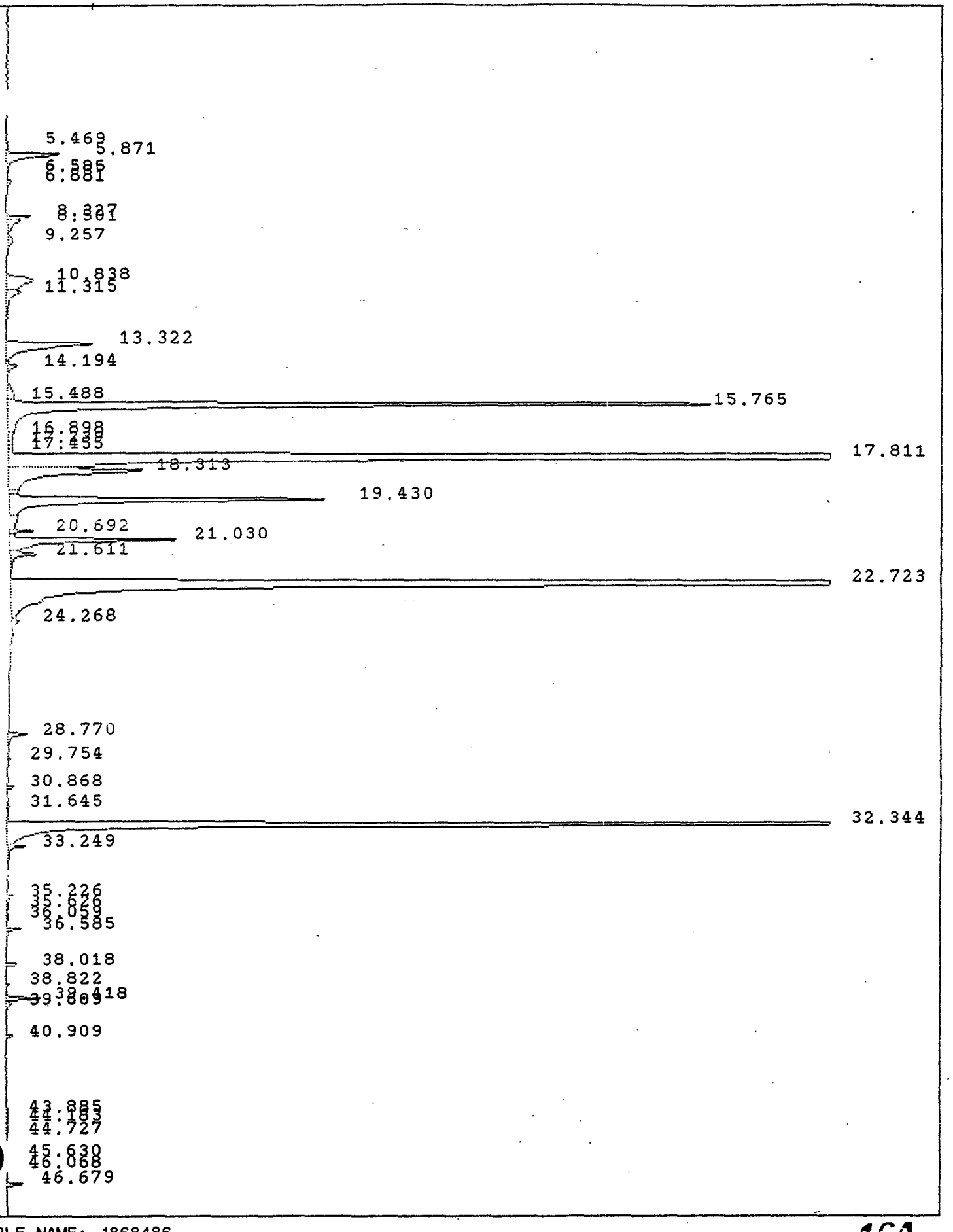
Integration Parameters: Run Time - 48.00
Threshold - 3.0 Minimum Area - 2.000E+02
Peak Width - .10000 Dilution Factor - 10.00

Timed Events	Time	Event	Logic	Value	EventUpdate
1	27.500	SetPeakWidth	Event	.00	False
2	28.500	SetPeakWidth	Event	.00	False
3	30.100	SetPeakWidth	Event	.00	False

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
1	17.78	#17.87	1228	7423	VV	153.78	CIS-1,2-DICHLOROETHENE
2	21.57	#21.62	2249	13786	PV	~~1237.98~~	SURR-FBENZENE 124 QA 378 9-24-92
3	22.70	#22.75	3680	20786	BV	360.78	TRICHLOROETHENE
4	26.65	#26.81	32	328	PV	1.57	TOLUENE
5	32.33	#32.32	3293	16779	BV		ISTD-1CL2FBENZENE

Internal Standard Range: 3107 - 4660 (Midpoint - 3884)

Using check standard file. /CAP/RESULT/P08_265_412.RES
Reported on Thu Sep 24, 1992 2:19:10 pm
Report Formatfile: /DATA/FORMAT/CAPPID.FMT



SAMPLE NAME: 1868486

Resultfile: /CAP/RESULT/H08_265_426.RES

Plot Fields: 500 - 3000 Instrument - TRACOR540 METHAL

HR303573

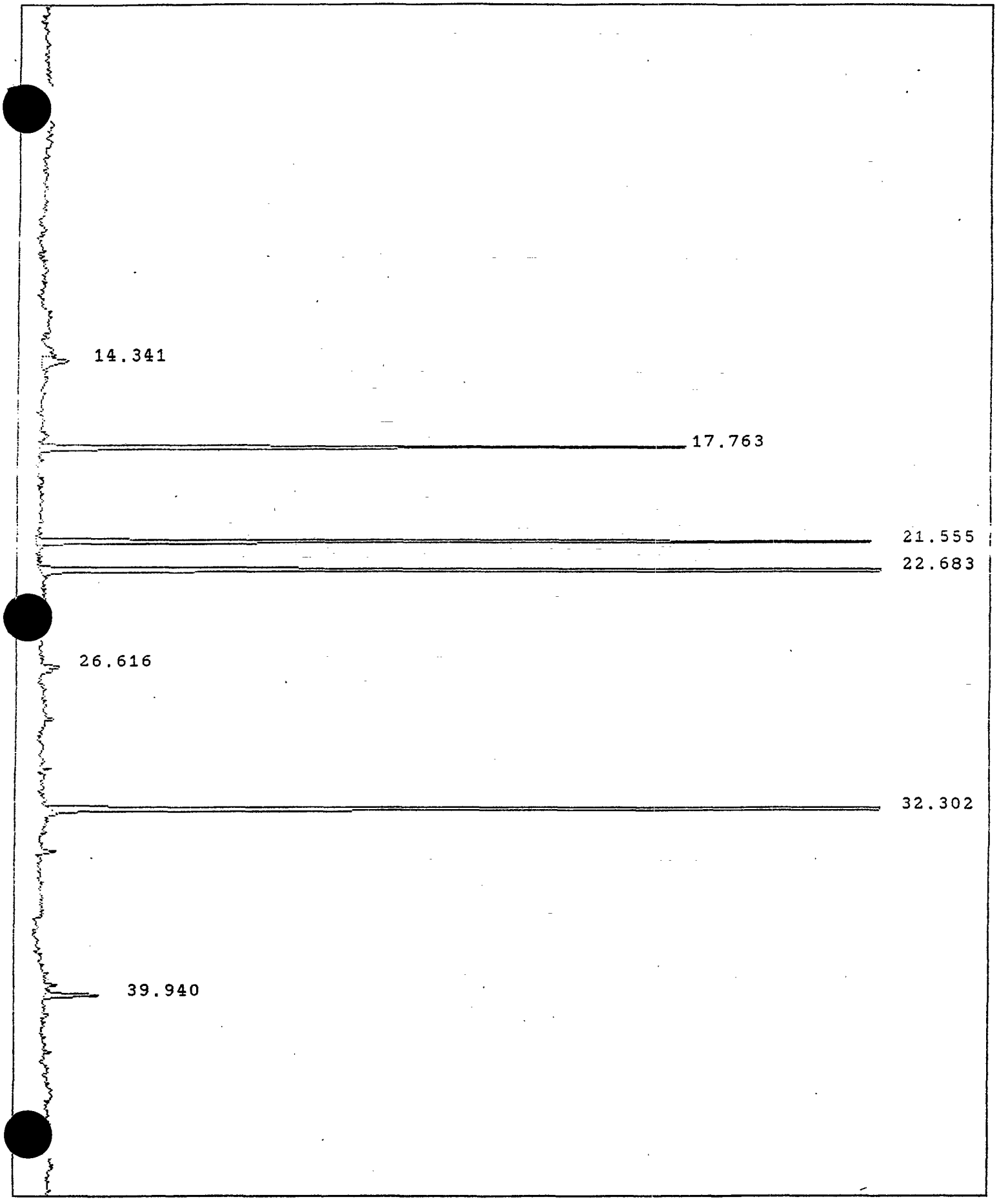
Batch # 92265/A08 Injected on Thu Sep 24, 1992 2:32:15 pm

Instrument: TRACOR540#8HALL Employee #439
Calculation: ExternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/H08_265_426.RES
M odfile: /CAP/METHOD/H08_265N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 5.00

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
4	6.59	6.64	21	101	VV	.16	CHLOROMETHANE
5	6.88	6.94	55	594	VV	.16	VINYL CHLORIDE
8	9.26	9.29	53	817	BV	.13	TRICHLOROFLUOROMETHANE
10	11.31	#11.40	164	3053	VV	.60	1,1-DICHLOROETHENE
11	13.32	#13.40	1044	16065	BV	~~.94~~	METHYLENE CHLORIDE NO ~~6~~ 1.75ppb
12	14.19	#14.23	144	1733	VV	.27	TRANS-1,2-DICHLOROETHENE
14	15.77	#15.85	9577	90091	VV	13.91	1,1-DICHLOROETHANE 378 9-25-92
18	17.81	#17.89	53376	454296	VV	55.36	CIS-1,2-DICHLOROETHENE
19	18.31	#18.38	1644	25088	VV	1.17	CHLOROFORM
20	19.43	#19.48	3741	46627	VV	6.01	1,1,1-TRICHLOROETHANE
22	21.03	#21.07	1955	20046	VV	2.30	1,2-DICHLOROETHANE
24	22.72	#22.78	109331	812797	PV	109.78	TRICHLOROETHENE
25	24.27	#24.25	89	1508	VV	.15	BROMODICHLOROMETHANE
26	28.77	#28.76	216	2147	PV	.32	TETRACHLOROETHENE
27	29.75	#29.67	20	159	VV	.06	DIBROMOCHLOROMETHANE
2[illegible]	31.64	#31.57	22	205	PV	.08	CHLOROBENZENE
[illegible]	32.34	#32.37	24409	176541	PV	~~435.93~~	SURR-1CL2FBENZENE 87 378 9-25-92
33	35.63	#35.51	22	328	PV	.04	1,1,2,2-TETRACHLOROETHANE
34	36.06	#35.97	19	276	VV	.04	1,2,3-TRICHLOROPROPANE
35	36.58	#36.52	219	936	PV	1.05	O-CHLOROTOLUENE
38	39.42	#39.58	483	2576	PV	.86	P-DICHLOROBENZENE
40	40.91	#40.80	128	587	BB	.29	O-DICHLOROBENZENE
44	45.63	45.54	39	248	VV	.07	1,2,4-TRICHLOROBENZENE

Reported on Fri Sep 25, 1992 8:39:04 am
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT



SAMPLE NAME: 1868486

Resultfile: /CAP/RESULT/P08_265_426.RES

Plot Fields: 6910 - 7310 Instrument - TRACOR540#8PID

AR303575

Sample Name: 1868486
Batch # 92265/A08 Injected on Thu Sep 24, 1992 2:32:15 pm

Instrument: TRACOR540#8PID Employee #439
Calculation: InternalSTD Quantitation: HeightUnits
Re 'ltfile: /CAP/RESULT/P08_265_426.RES
M odfile: /CAP/METHOD/P08_265NSSI.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - PID Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

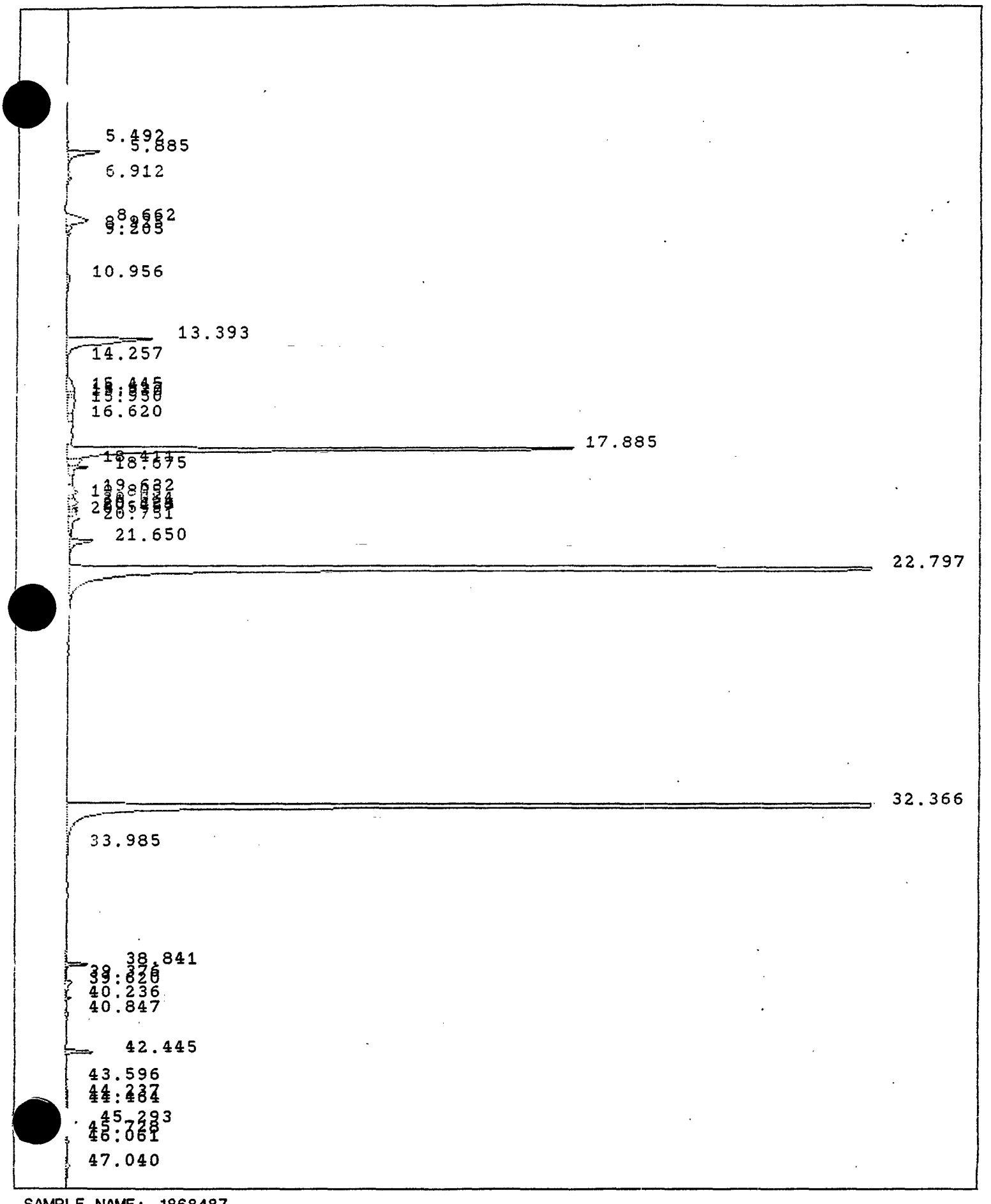
Integration Parameters: Run Time - 48.00
Threshold - 3.0 Minimum Area - 2.000E+02
Peak Width - .10000 Dilution Factor - 5.00

Timed Events	Time	Event	Logic	Value	EventUpdate
1	27.500	SetPeakWidth	Event	.00	False
2	28.500	SetPeakWidth	Event	.00	False
3	30.100	SetPeakWidth	Event	.00	False

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
2	17.76	#17.87	1304	7872	BV	79.93	CIS-1,2-DICHLOROETHENE
3	21.56	#21.62	1872	11318	VV	~~505.32~~	SURR-FBENZENE 101 [illegible] 9-25-92
4	22.68	#22.75	2885	16384	PV	136.73	TRICHLOROETHENE
6	32.30	#32.32	3357	17258	BV		ISTD-1CL2FBENZENE

Internal Standard Range: 3107 - 4660 (Midpoint - 3884)

Using check standard file. /CAP/RESULT/P08_265_412.RES
Reported on Fri Sep 25, 1992 8:41:17 am
Report Formatfile: /DATA/FORMAT/CAPPID.FMT



SAMPLE NAME: 1868487
Resultfile: /CAP/RESULT/H08_265_431.RES
Plot Fields: 500 - 3000 Instrument - TRACOR540#8HALL

AR303577 168

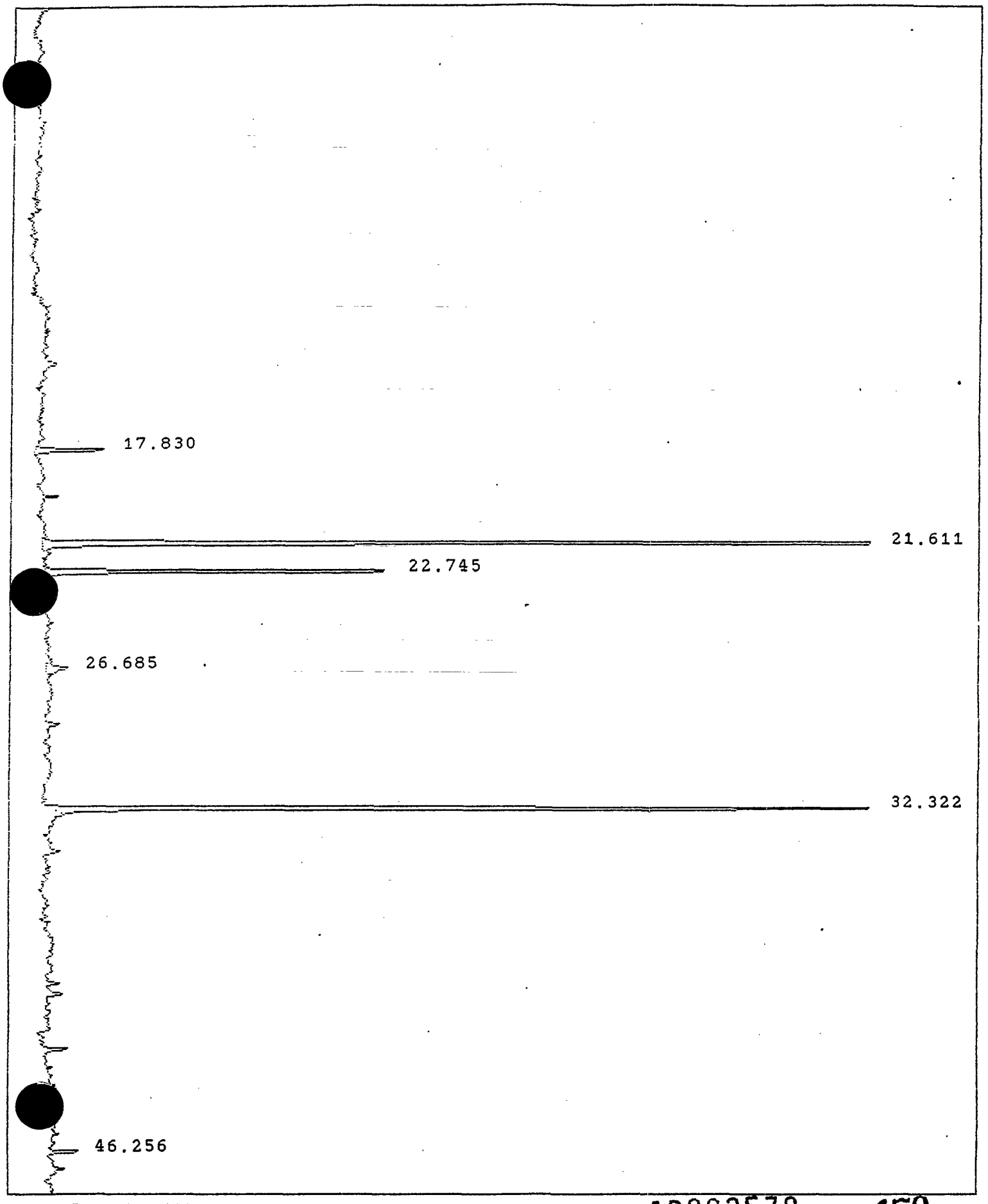
Sample Name: 1868487
Batch # 92265/A08 Injected on Thu Sep 24, 1992 8:11:20 pm

Instrument: TRACOR540#8HALL Employee #330
Calculation: ExternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/H08_265_431.RES
Methodfile: /CAP/METHOD/H08_265N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
2	5.88	5.85	413	4351	PV	.35	DICHLORODIFLUOROMETHANE
6	9.20	9.15	53	404	VV	.03	TRICHLOROFLUOROMETHANE
8	13.39	#13.29	1048	16583	PV	~~.18~~	METHYLENE CHLORIDE .35 ppb 8-330 9-24-92
11	15.63	#15.75	87	588	VV	.03	1,1-DICHLOROETHANE
15	17.89	#17.80	6799	59367	VV	1.78	CIS-1,2-DICHLOROETHENE
16	18.41	#18.30	172	2311	VV	.02	CHLOROFORM
20	20.08	#20.09	120	1729	VV	.05	CARBON TETRACHLORIDE
26	22.80	#22.72	29558	250726	PV	5.84	TRICHLOROETHENE
27	32.37	#32.36	25287	184898	PV	90.32	SURR-1CL2FBENZENE
31	39.62	#39.52	87	1155	VV	.03	P-DICHLOROBENZENE
33	40.85	#40.74	23	343	VV	.01	O-DICHLOROBENZENE
40	46.06	45.97	32	445	VV	.01	HEXACHLOROBUTADIENE

Reported on Thu Sep 24, 1992 9:02:48 pm
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT



SAMPLE NAME: 1868487
Resultfile: /CAP/RESULT/P08_265_431.RES

Sample Name: 1868487
Batch # 92265/A08 Injected on Thu Sep 24, 1992 8:11:20 pm

Instrument: TRACOR540#8PID Employee #330
Calculation: InternalSTD Quantitation: HeightUnits
Re ltfile: /CAP/RESULT/P08_265_431.RES
Me odfile: /CAP/METHOD/P08_265NSSIS.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - PID Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

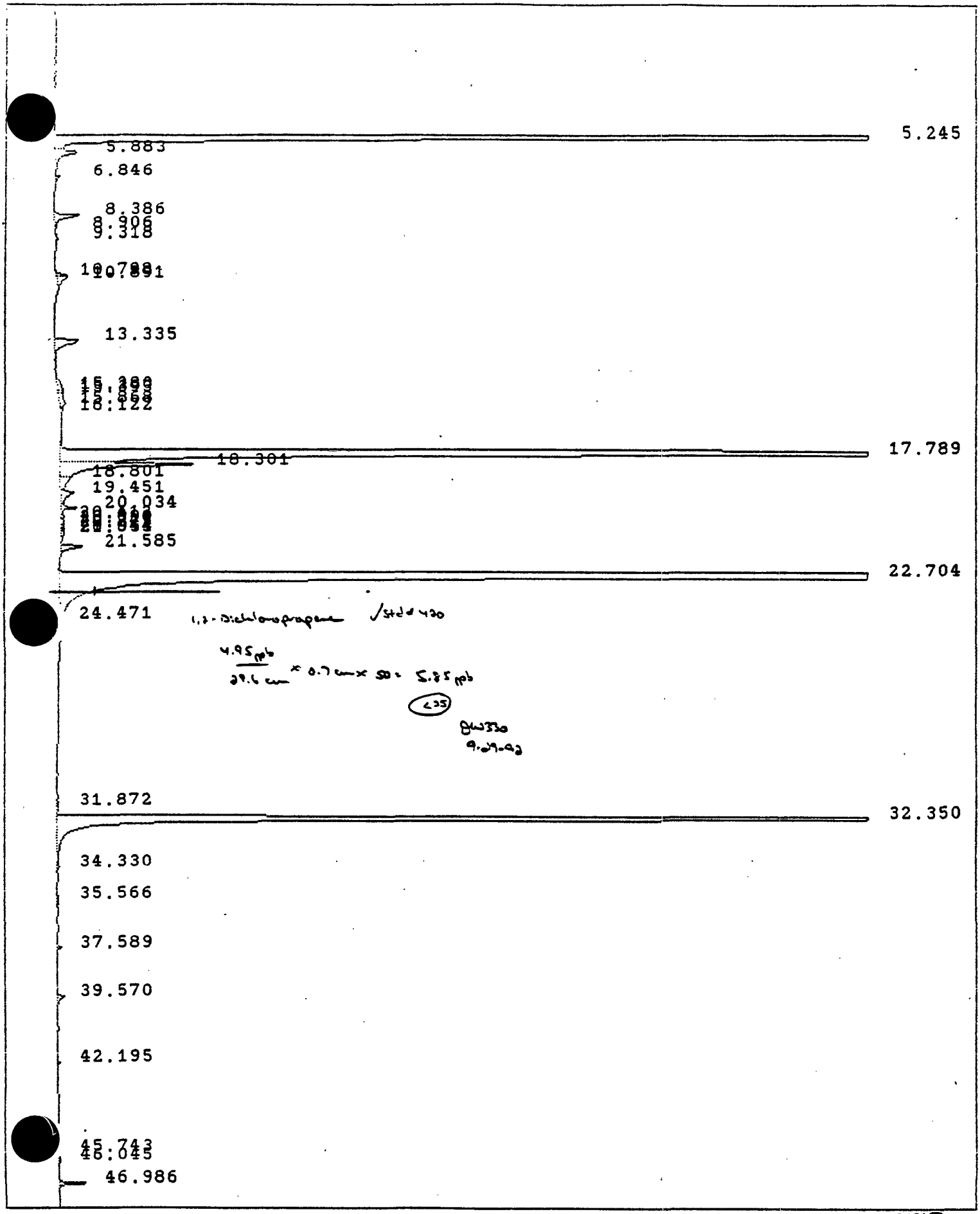
Integration Parameters: Run Time - 48.00
Threshold - 3.0 Minimum Area - 2.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Timed Events	Time	Event	Logic	Value	EventUpdate
1	27.500	SetPeakWidth	Event	.00	False
2	28.500	SetPeakWidth	Event	.00	False
3	30.100	SetPeakWidth	Event	.00	False

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
1	17.83	#17.75	147	1022	PV	1.99	CIS-1,2-DICHLOROETHENE
2	21.61	#21.53	2510	15459	VV	106.47	SURR-FBENZENE
3	22.75	#22.67	853	5068	PV	6.94	TRICHLOROETHENE
4	26.69	#26.77	43	544	VV	.20	TOLUENE
5	32.32	#32.31	3538	18313	BB		ISTD-1CL2FBENZENE
6	46.26	46.20	77	325	BB	.42	NAPHTHALENE

Internal Standard Range: 3107 - 4660 (Midpoint - 3884)

Using check standard file. /CAP/RESULT/P08_265_412.RES
Reported on Thu Sep 24, 1992 9:20:00 pm
Report Formatfile: /DATA/FORMAT/CAPPID.FMT



SAMPLE NAME: 1868488

Resultfile: /CAP/RESULT/H08_265_428.RES

Plot Fields: 500 - 3000 Instrument - TRACOR540#8HALL

AR303581

Sample Name: 1868488
Batch # 92265/A08 Injected on Thu Sep 24, 1992 4:46:04 pm

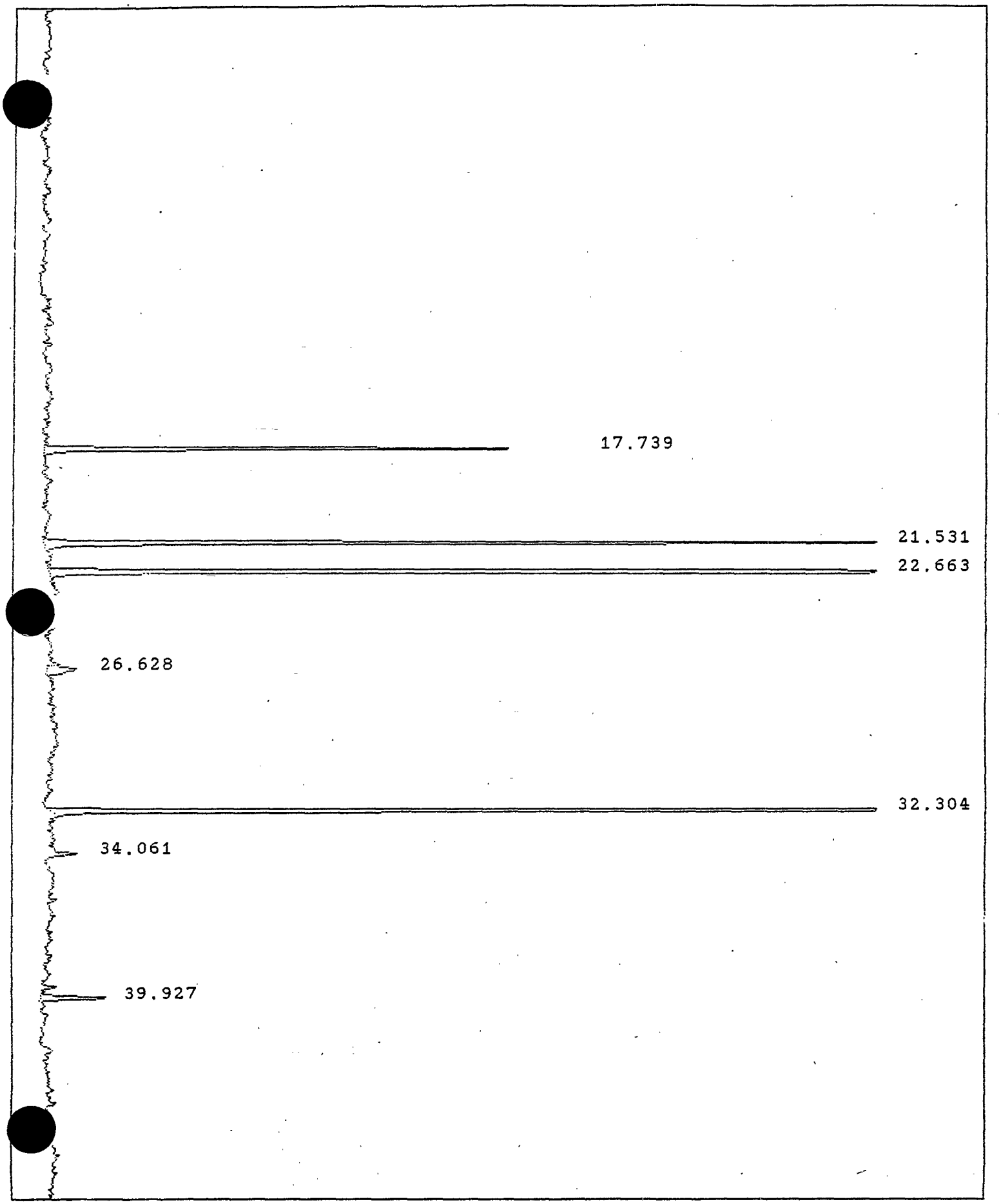
Instrument: TRACOR540#8HALL Employee #439
Calculation: ExternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/H08_265_428.RES
Methodfile: /CAP/METHOD/H08_265N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 50.00

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
2	5.88	5.96	270	3434	VV	11.57	DICHLORODIFLUOROMETHANE
6	9.32	9.29	20	269	VV	.47	TRICHLOROFLUOROMETHANE
9	13.34	#13.40	295	4467	PV	2.66	METHYLENE CHLORIDE
12	15.87	#15.85	72	1927	VV	1.30	1,1-DICHLOROETHANE
14	17.79	#17.89	49359	394201	PV	509.37	CIS-1,2-DICHLOROETHENE
15	18.30	#18.38	1568	20101	VV	11.17	CHLOROFORM
16	18.80	#18.91	152	2769	VV	3.25	BROMOCHLOROMETHANE
17	19.45	#19.48	162	2567	VV	2.36	1,1,1-TRICHLOROETHANE
18	20.03	#20.17	228	1288	VV	4.69	CARBON TETRACHLORIDE
24	21.05	#21.07	49	605	VV	.57	1,2-DICHLOROETHANE
26	22.70	#22.78	137345	997842	BV	1407.85	TRICHLOROETHENE
29	32.35	#32.37	22594	173013	VV	~~4035.29~~	SURR-1CL2FBENZENE
31	35.57	#35.51	18	235	BV	.31	1,1,2,2-TETRACHLOROETHANE
33	39.57	#39.58	88	990	PB	1.56	P-DICHLOROBENZENE

S1 CB8/3510 9-29-92

Reported on Thu Sep 24, 1992 5:35:51 pm
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT



SAMPLE NAME: 1868488
Resultfile: /CAP/RESULT/P08_265_428.RES
Plot Fields: 6910 - 7310 Instrument - TRACOR540#8PID

AR303583

Sample Name: 1868488
Batch # 92265/A08 Injected on Thu Sep 24, 1992 4:46:04 pm

Instrument: TRACOR540#8PID Employee #439
Calculation: InternalSTD Quantitation: HeightUnits
R ltfile: /CAP/RESULT/P08_265_428.RES
Me..odfile: /CAP/METHOD/P08_265NSSI.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - PID Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.00
Threshold - 3.0 Minimum Area - 2.000E+02
Peak Width - .10000 Dilution Factor - 50.00

Timed Events	Time	Event	Logic	Value	EventUpdate
1	27.500	SetPeakWidth	Event	.00	False
2	28.500	SetPeakWidth	Event	.00	False
3	30.100	SetPeakWidth	Event	.00	False

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
1	17.74	#17.87	1002	6146	PV	626.58	CIS-1,2-DICHLOROETHENE
2	21.53	#21.62	2062	12712	PV	~~5605.48~~	SURR-FBENZENE
3	22.66	#22.75	4040	22856	PV	1963.98	TRICHLOROETHENE
5	32.30	#32.32	3333	17233	BB		ISTD-1CL2FBENZENE

Internal Standard Range: 3107 - 4660 (Midpoint - 3884)

Using check standard file. /CAP/RESULT/P08_265_412.RES

Reported on Thu Sep 24, 1992 5:37:54 pm
Report Formatfile: /DATA/FORMAT/CAPPID.FMT

STANDARDS DATA

AR303585

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Quality Control Summary

Initial Calibration

Calibration Batch.....: 92239/A08

Sample Batch Number.....: 92265/A08

Calibration Date.....: 08/26/92

Instrument Identification..: 02764

Laboratory Standard ID

Compound	2.5-500 +12.5 Rf STD 1	1.5-200 +7.5 Rf STD 2	4-200 +10 Rf STD 3	10-200 +20 Rf STD 4	10-100 +20 Rf STD 5	25-50 +15 Rf STD 6	AVE RF	%RSD	QC Limit
Chloromethane	0.001477	0.001575	0.001552	0.001098	0.001182	0.001145	0.001338	16.4	20
Bromomethane	0.001603	0.001781	0.001829	0.001438	0.001545	0.001237	0.001572	14.0	20
Chloroethane	0.000774	0.000695	0.000584	0.000727	0.000675	0.000436	0.000649	18.8	20
Methylene chloride	0.000180	0.000211	0.000261	0.000329	0.000358	0.000390	0.000288	29.2	20 *
trans-1,2-Dichloroethene	0.000373	0.000357	0.000313	0.000247	0.000206	0.000210	0.000284	25.9	20 *
1,1-Dichloroethane	0.000359	0.000343	0.000322	0.000256	0.000226	0.000260	0.000294	18.4	20
cis-1,2-Dichloroethene	0.000336	0.000355	0.000256	0.000232	0.000206	0.000217	0.000267	23.7	20 *
Chloroform	0.000142	0.000172	0.000202	0.000186	0.000157	0.000184	0.000174	12.5	20
1,2-Dichloropropane	0.000364	0.000363	0.000294	0.000276	0.000282	0.000231	0.000302	17.4	20
Bromodichloromethane	0.000341	0.000343	0.000335	0.000270	0.000236	0.000247	0.000295	16.9	20
cis-1,3-Dichloropropene	0.000343	0.000414	0.000314	0.000308	0.000296	0.000257	0.000322	16.5	20
trans-1,3-Dichloropropene	0.000432	0.000510	0.000414	0.000370	0.000287	0.000263	0.000379	24.5	20 *
1,1,2-Trichloroethane	0.000261	0.000310	0.000254	0.000234	0.000196	0.000204	0.000243	17.2	20
Tetrachloroethene	0.000292	0.000283	0.000227	0.000219	0.000174	0.000207	0.000234	19.5	20
Dibromochloromethane	0.000576	0.000677	0.000589	0.000464	0.000379	0.000346	0.000505	25.7	20 *
Chlorobenzene	0.000734	0.000963	0.000690	0.000676	0.000602	0.000540	0.000701	20.8	20 *
1,1,1,2-Tetrachloroethane	0.000208	0.000216	0.000212	0.000187	0.000186	0.000194	0.000201	6.6	20
Bromoform	0.001324	0.001631	0.001434	0.000818	0.000648	0.000522	0.001063	43.2	20 *
1,1,2,2-Tetrachloroethane	0.000353	0.000440	0.000395	0.000310	0.000260	0.000288	0.000341	20.0	20
1,2,3-Trichloropropane	0.000391	0.000477	0.000454	0.000390	0.000311	0.000314	0.000390	17.7	20
o-Chlorotoluene	0.000956	0.001010	0.000867	0.000637	0.000492	0.000538	0.000750	29.7	20 *
p-Chlorotoluene	0.000770	0.000821	0.000683	0.000574	0.000520	0.000583	0.000659	18.2	20
m-Dichlorobenzene	0.000556	0.000714	0.000509	0.000480	0.000363	0.000335	0.000493	28.0	20 *
o-Dichlorobenzene	0.000449	0.000461	0.000518	0.000431	0.000337	0.000339	0.000423	17.0	20
Toluene	0.000368	0.000335	0.000324	0.000320	0.000304		0.000330	7.2	20
Ethylbenzene	0.000404	0.000360	0.000336	0.000335	0.000387		0.000364	8.4	20
m-Xylene	0.000361	0.000322	0.000292	0.000287	0.000276		0.000308	11.2	20
o-Xylene	0.000438	0.000390	0.000346	0.000340	0.000320		0.000367	12.9	20
Styrene	0.000343	0.000281	0.000249	0.000245	0.000229		0.000269	16.8	20

This initial calibration applies to samples 1868474-88

2,2-Dichloropropane, 1,1-dichloropropene, dibromomethane, 1,3-dichloropropane and bromobenzene are not part of the routine calibration solution.

m-Xylene and p-xylene coelute on the capillary column (60 m x 0.75 mm ID fused silica VOCOL column); only m-xylene is used in the calibration standard.

A linear curve was attained for toluene, ethylbenzene, m-xylene, o-xylene and styrene with five levels of calibration. A sixth level of calibration was used for all other compounds to obtain linearity prior to analysis of samples.

For initial calibration 08/26/92, the % RSD for methylene chloride, trans-1,2-dichloroethene, cis-1,2-dichloroethene, trans-1,3-dichloropropene, dibromochloromethane, chlorobenzene, bromoform, o-chlorotoluene and m-dichlorobenzene is outside the QC limits as set by Lancaster Laboratories, Inc. However, method 502.2 does not QC limits for this parameter when a calibration curve is used.

AR303586

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Quality Control Summary

Initial Calibration

Calibration Batch.....: 92239/A08

Sample Batch Number.....: 92265/A08

Calibration Date.....: 08/26/92

Instrument Identification: 02764

Laboratory Standard ID

Compound	2.5-500 +12.5 Rf STD 1	1.5-200 +7.5 Rf STD 2	4-200 +10 Rf STD 3	10-200 +20 Rf STD 4	10-100 +20 Rf STD 5	25-50 +15 Rf STD 6	AVE RF	%RSD	%RSD %RSD QC Limit
Vinyl chloride	0.000569	0.000581	0.000545	0.000483	0.000550	0.000486	0.000536	7.8	20
1,1-Dichloroethene	0.000729	0.000665	0.000561	0.000558	0.000468	0.000481	0.000577	17.8	20
1,1,1-Trichloroethane	0.000290	0.000302	0.000334	0.000265	0.000260	0.000271	0.000287	9.7	20
Carbon tetrachloride	0.000411	0.000355	0.000284	0.000268	0.000217	0.000235	0.000295	25.2	20 *
1,2-Dichloroethane	0.000235	0.000303	0.000247	0.000238	0.000191	0.000219	0.000239	15.5	20
Trichloroethene	0.000314	0.000281	0.000232	0.000205	0.000180	0.000211	0.000237	21.4	20 *
p-Dichlorobenzene	0.000354	0.000486	0.000442	0.000392	0.000263	0.000301	0.000373	22.6	20 *
Benzene	0.000542	0.000615	0.000508	0.000561	0.000565		0.000558	7.0	20

This initial calibration applies to samples 1868474-88

A linear curve was attained for benzene with five levels of calibration. A sixth level of calibration was used for all other compounds to obtain linearity prior to analysis of samples.

For initial calibration 08/26/92, the %RSD for carbon tetrachloride, trichloroethene, and p-dichlorobenzene is outside the QC limit as set by Lancaster Laboratories, Inc. However, method 502.2 does not specify QC limits for for this parameter when a calibration curve is used.

AR303587

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Quality Control Summary

Continuing Calibration
Volatiles by GC

Calibration Date.....: 08/26/92 Batch Number: 92265/A08

Instrument Identification..: 02764 Inj #..: 381

Continuing Calibration Date: 09/21/92

Compound	Reference Concentration	Continuing Calib Result	Acceptance Range 80%-	120%	Out of Range
Chloromethane	10.0	14.0	8.0	12.0	OUT OF SPEC
Bromomethane	10.0	14.0	8.0	12.0	OUT OF SPEC
Chloroethane	10.0	15.4	8.0	12.0	OUT OF SPEC
Methylene chloride	4.8	4.6	3.9	5.8	
trans-1,2-Dichloroethene	4.9	4.7	3.9	5.9	
1,1-Dichloroethane	5.0	4.9	4.0	6.0	
cis-1,2-Dichloroethene	5.0	5.0	4.0	6.0	
Chloroform	5.1	5.6	4.1	6.1	
1,2-Dichloropropane	5.0	4.8	4.0	5.9	
Bromodichloromethane	5.2	4.9	4.1	6.2	
cis-1,3-Dichloropropene	6.1	6.6	4.9	7.3	
trans-1,3-Dichloropropene	4.1	4.2	3.3	4.9	
1,1,2-Trichloroethane	4.8	5.6	3.9	5.8	
Tetrachloroethene	5.1	5.5	4.1	6.2	
Dibromochloromethane	5.1	5.5	4.1	6.1	
Chlorobenzene	4.9	5.2	3.9	5.9	
1,1,1,2-Tetrachloroethane	5.1	4.5	4.1	6.1	
Bromoform	6.8	6.6	5.4	8.2	
1,1,2,2-Tetrachloroethane	5.2	4.8	4.2	6.2	
1,2,3-Trichloropropane	5.3	5.1	4.2	6.3	
o-Chlorotoluene	5.0	4.4	4.0	6.0	
p-Chlorotoluene	4.9	4.2	3.9	5.8	
m-Dichlorobenzene	5.4	5.5	4.3	6.4	
o-Dichlorobenzene	5.6	5.9	4.5	6.8	
Toluene	5.3	5.7	4.3	6.4	
Ethylbenzene	5.3	6.0	4.3	6.4	
m-Xylene	5.1	5.4	4.1	6.1	
o-Xylene	5.2	5.2	4.2	6.2	
Styrene	5.4	5.5	4.3	6.4	

Reference for LLI #'s 1868474-76

2,2-Dichloropropane, 1,1-dichloropropene, dibromomethane, 1,3-dichloropropane and bromobenzene are not part of the routine check standard solution and no acceptance criteria have been developed.

m-Xylene and p-xylene coelute on the capillary column (60 m x 0.75 mm ID fused silica VOCOL column); only m-xylene is used in the check standard solution.

Check standard 09/21/92 is outside specifications for chloromethane, bromomethane and chloroethane. However, these compounds are not detected in any of the samples referencing this standard and are detected on a quantitation limit standard (382).

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Quality Control Summary

Continuing Calibration
Volatiles by GC

Calibration Date.....: 08/26/92

Batch Number: 90265/A08

Instrument Identification..: 02764

Inj #..: 381

Continuing Calibration Date: 09/21/92

Compound	Reference Concentration	Continuing Calib Result	Acceptance Range 80%-	120%	Out of Range
Vinyl chloride	10.0	9.3	8.0	12.0	
1,1-Dichloroethene	4.9	5.5	3.9	5.8	
1,1,1-Trichloroethane	5.1	4.8	4.1	6.1	
Carbon tetrachloride	4.9	4.9	3.9	5.9	
1,2-Dichloroethane	5.3	5.2	4.2	6.4	
Trichloroethene	4.8	4.6	3.8	5.8	
p-Dichlorobenzene	5.3	5.5	4.2	6.4	
Benzene	5.0	3.9	4.0	6.0	OUT OF SPEC

Reference for LLI #'s 1868474-76

Check standard 09/21/92 is outside specifications for benzene. However, this compound is not detected in any of the samples referencing this standard and is detected on a quantitation limit standard (382).

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Quality Control Summary

Continuing Calibration
Volatiles by GC

Calibration Date.....: 08/26/92 Batch Number: 90265/A08

Instrument Identification..: 02764 Inj #..: 395

Continuing Calibration Date: 09/22/92

Compound	Reference Concentration	Continuing Calib Result	Acceptance Range 80%-	120%	Out of Range
Chloromethane	10.0	14.5	8.0	12.0	OUT OF SPEC
Bromomethane	10.0	11.8	8.0	12.0	
Chloroethane	10.0	11.1	8.0	12.0	
Methylene chloride	4.8	3.8	3.9	5.8	OUT OF SPEC
trans-1,2-Dichloroethene	4.9	4.6	3.9	5.9	
1,1-Dichloroethane	5.0	5.2	4.0	6.0	
cis-1,2-Dichloroethene	5.0	5.3	4.0	6.0	
Chloroform	5.1	6.0	4.1	6.1	
1,2-Dichloropropane	5.0	5.0	4.0	5.9	
Bromodichloromethane	5.2	5.5	4.1	6.2	
cis-1,3-Dichloropropene	6.1	6.5	4.9	7.3	
trans-1,3-Dichloropropene	4.1	4.3	3.3	4.9	
1,1,2-Trichloroethane	4.8	5.1	3.9	5.8	
Tetrachloroethene	5.1	5.6	4.1	6.2	
Dibromochloromethane	5.1	5.9	4.1	6.1	
Chlorobenzene	4.9	5.6	3.9	5.9	
1,1,1,2-Tetrachloroethane	5.1	4.7	4.1	6.1	
Bromoform	6.8	6.8	5.4	8.2	
1,1,2,2-Tetrachloroethane	5.2	4.7	4.2	6.2	
1,2,3-Trichloropropane	5.3	4.7	4.2	6.3	
o-Chlorotoluene	5.0	4.9	4.0	6.0	
p-Chlorotoluene	4.9	4.4	3.9	5.8	
m-Dichlorobenzene	5.4	6.0	4.3	6.4	
o-Dichlorobenzene	5.6	5.6	4.5	6.8	
Toluene	5.3	6.3	4.3	6.4	
Ethylbenzene	5.3	7.0	4.3	6.4	OUT OF SPEC
m-Xylene	5.1	6.1	4.1	6.1	
o-Xylene	5.2	5.8	4.2	6.2	
Styrene	5.4	6.0	4.3	6.4	

Reference for LLI #'s 1868477-78

2,2-Dichloropropane, 1,1-dichloropropene, dibromomethane, 1,3-dichloropropane and bromobenzene are not part of the routine check standard solution and no acceptance criteria have been developed.

m-Xylene and p-xylene coelute on the capillary column (60 m x 0.75 mm ID fused silica VOCOL column); only m-xylene is used in the check standard solution.

Check standard 09/22/92 is outside specifications for chloromethane, methylene chloride and ethylbenzene. However, these compounds are not detected in any of the samples referencing this standard and are detected on a quantitation limit standard (397).

AR303590

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Quality Control Summary

Continuing Calibration
Volatiles by GC

Calibration Date.....: 08/26/92

Batch Number: 90265/A08

Instrument Identification..: 02764

Inj #..: 395

Continuing Calibration Date: 09/22/92

Compound	Reference Concentration	Continuing Calib Result	Acceptance Range 80%-	120%	Out of Range
Vinyl chloride	10.0	11.1	8.0	12.0	
1,1-Dichloroethene	4.9	5.3	3.9	5.8	
1,1,1-Trichloroethane	5.1	5.3	4.1	6.1	
Carbon tetrachloride	4.9	5.0	3.9	5.9	
1,2-Dichloroethane	5.3	5.3	4.2	6.4	
Trichloroethene	4.8	5.4	3.8	5.8	
p-Dichlorobenzene	5.3	5.5	4.2	6.4	
Benzene	5.0	4.4	4.0	6.0	

Reference for LLI #'s 1868477-78

AR303591

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Quality Control Summary

Continuing Calibration
Volatiles by GC

Calibration Date.....: 08/26/92 Batch Number: 90265/A08

Instrument Identification..: 02764 Inj #..: 412

Continuing Calibration Date: 09/23/92

Compound	Reference Concentration	Continuing Calib Result	Acceptance Range 80%-	120%	Out of Range
Chloromethane	10.0	12.3	8.0	12.0	OUT OF SPEC
Bromomethane	10.0	14.1	8.0	12.0	OUT OF SPEC
Chloroethane	10.0	9.3	8.0	12.0	
Methylene chloride	4.8	4.2	3.9	5.8	
trans-1,2-Dichloroethene	4.9	4.3	3.9	5.9	
1,1-Dichloroethane	5.0	4.8	4.0	6.0	
cis-1,2-Dichloroethene	5.0	4.7	4.0	6.0	
Chloroform	5.1	5.1	4.1	6.1	
1,2-Dichloropropane	5.0	4.9	4.0	5.9	
Bromodichloromethane	5.2	4.6	4.1	6.2	
cis-1,3-Dichloropropene	6.1	6.5	4.9	7.3	
trans-1,3-Dichloropropene	4.1	4.4	3.3	4.9	
1,1,2-Trichloroethane	4.8	4.8	3.9	5.8	
Tetrachloroethene	5.1	5.3	4.1	6.2	
Dibromochloromethane	5.1	5.0	4.1	6.1	
Chlorobenzene	4.9	5.4	3.9	5.9	
1,1,1,2-Tetrachloroethane	5.1	4.6	4.1	6.1	
Bromoform	6.8	4.9	5.4	8.2	OUT OF SPEC
1,1,2,2-Tetrachloroethane	5.2	4.7	4.2	6.2	
1,2,3-Trichloropropane	5.3	4.7	4.2	6.3	
o-Chlorotoluene	5.0	5.0	4.0	6.0	
p-Chlorotoluene	4.9	4.3	3.9	5.8	
m-Dichlorobenzene	5.4	6.1	4.3	6.4	
o-Dichlorobenzene	5.6	5.7	4.5	6.8	
Toluene	5.3	5.7	4.3	6.4	
Ethylbenzene	5.3	6.1	4.3	6.4	
m-Xylene	5.1	5.5	4.1	6.1	
o-Xylene	5.2	5.3	4.2	6.2	
Styrene	5.4	5.5	4.3	6.4	

Reference for LLI #'s 1868479-80

2,2-Dichloropropane, 1,1-dichloropropene, dibromomethane, 1,3-dichloropropane and bromobenzene are not part of the routine check standard solution and no acceptance criteria have been developed.

m-Xylene and p-xylene coelute on the capillary column (60 m x 0.75 mm ID fused silica VOCOL column); only m-xylene is used in the check standard solution.

Check standard 09/23/92 is outside specifications for chloromethane, bromomethane and bromoform. However, these compounds are not detected in any of the samples referencing this standard and are detected on a quantitation limit standard (404).

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AR303592

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Quality Control Summary

Continuing Calibration
Volatiles by GC

Calibration Date.....: 08/26/92 Batch Number: 90265/A08

Instrument Identification..: 02764 Inj #..: 412

Continuing Calibration Date: 09/23/92

Compound	Reference Concentration	Continuing Calib Result	Acceptance Range 80%-	120%	Out of Range
Vinyl chloride	10.0	10.6	8.0	12.0	
1,1-Dichloroethene	4.9	5.2	3.9	5.8	
1,1,1-Trichloroethane	5.1	4.9	4.1	6.1	
Carbon tetrachloride	4.9	5.0	3.9	5.9	
1,2-Dichloroethane	5.3	5.3	4.2	6.4	
Trichloroethene	4.8	4.6	3.8	5.8	
p-Dichlorobenzene	5.3	5.5	4.2	6.4	
Benzene	5.0	3.9	4.0	6.0	OUT OF SPEC

Reference for LLI #'s 1868479-80

Check standard 09/23/92 is outside specifications for benzene. However, this compound is not detected in any of the samples referencing this standard and is detected on a quantitation limit standard (404).

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Quality Control Summary

Continuing Calibration
Volatiles by GC

Calibration Date.....: 08/26/92 Batch Number: 90265/A08

Instrument Identification..: 02764 Inj #..: 420

Continuing Calibration Date: 09/24/92

Compound	Reference Concentration	Continuing Calib Result	Acceptance Range 80%-	120%	Out of Range
Chloromethane	10.0	10.8	8.0	12.0	
Bromomethane	10.0	17.1	8.0	12.0	OUT OF SPEC
Chloroethane	10.0	9.5	8.0	12.0	
Methylene chloride	4.8	5.3	3.9	5.8	
trans-1,2-Dichloroethene	4.9	4.5	3.9	5.9	
1,1-Dichloroethane	5.0	4.8	4.0	6.0	
cis-1,2-Dichloroethene	5.0	4.8	4.0	6.0	
Chloroform	5.1	5.2	4.1	6.1	
1,2-Dichloropropane	5.0	5.1	4.0	5.9	
Bromodichloromethane	5.2	5.1	4.1	6.2	
cis-1,3-Dichloropropene	6.1	5.9	4.9	7.3	
trans-1,3-Dichloropropene	4.1	4.2	3.3	4.9	
1,1,2-Trichloroethane	4.8	4.6	3.9	5.8	
Tetrachloroethene	5.1	5.0	4.1	6.2	
Dibromochloromethane	5.1	5.3	4.1	6.1	
Chlorobenzene	4.9	5.0	3.9	5.9	
1,1,1,2-Tetrachloroethane	5.1	4.8	4.1	6.1	
Bromoform	6.8	6.4	5.4	8.2	
1,1,2,2-Tetrachloroethane	5.2	4.2	4.2	6.2	
1,2,3-Trichloropropane	5.3	4.3	4.2	6.3	
o-Chlorotoluene	5.0	4.4	4.0	6.0	
p-Chlorotoluene	4.9	4.0	3.9	5.8	
m-Dichlorobenzene	5.4	5.2	4.3	6.4	
o-Dichlorobenzene	5.6	5.5	4.5	6.8	
Toluene	5.3	5.8	4.3	6.4	
Ethylbenzene	5.3	6.1	4.3	6.4	
m-Xylene	5.1	5.6	4.1	6.1	
o-Xylene	5.2	5.2	4.2	6.2	
Styrene	5.4	5.4	4.3	6.4	

Reference for LLI #'s 1868481-88

2,2-Dichloropropane, 1,1-dichloropropene, dibromomethane, 1,3-dichloropropane and bromobenzene are not part of the routine check standard solution and no acceptance criteria have been developed.

m-Xylene and p-xylene coelute on the capillary column (60 m x 0.75 mm ID fused silica VOCOL column); only m-xylene is used in the check standard solution.

Check standard 09/24/92 is outside specifications for bromomethane. However, this compound is not detected in any of the samples referencing this standard and is detected on a quantitation limit standard (421).

AR303594

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Quality Control Summary

Continuing Calibration
Volatiles by GC

Calibration Date.....: 08/26/92

Batch Number: 90265/A08

Instrument Identification..: 02764

Inj #..: 420

Continuing Calibration Date: 09/24/92

Compound	Reference Concentration	Continuing Calib Result	Acceptance Range 80%-	120%	Out of Range
Vinyl chloride	10.0	10.4	8.0	12.0	
1,1-Dichloroethene	4.9	5.8	3.9	5.8	
1,1,1-Trichloroethane	5.1	4.8	4.1	6.1	
Carbon tetrachloride	4.9	5.2	3.9	5.9	
1,2-Dichloroethane	5.3	4.6	4.2	6.4	
Trichloroethene	4.8	4.7	3.8	5.8	
p-Dichlorobenzene	5.3	4.6	4.2	6.4	
Benzene	5.0	3.8	4.0	6.0	OUT OF SPEC

Reference for LLI #'s 1868481-88

Check standard 09/24/92 is outside specifications for benzene. However, this compound is not detected in any of the samples referencing this standard and is detected on a quantitation limit standard (421).

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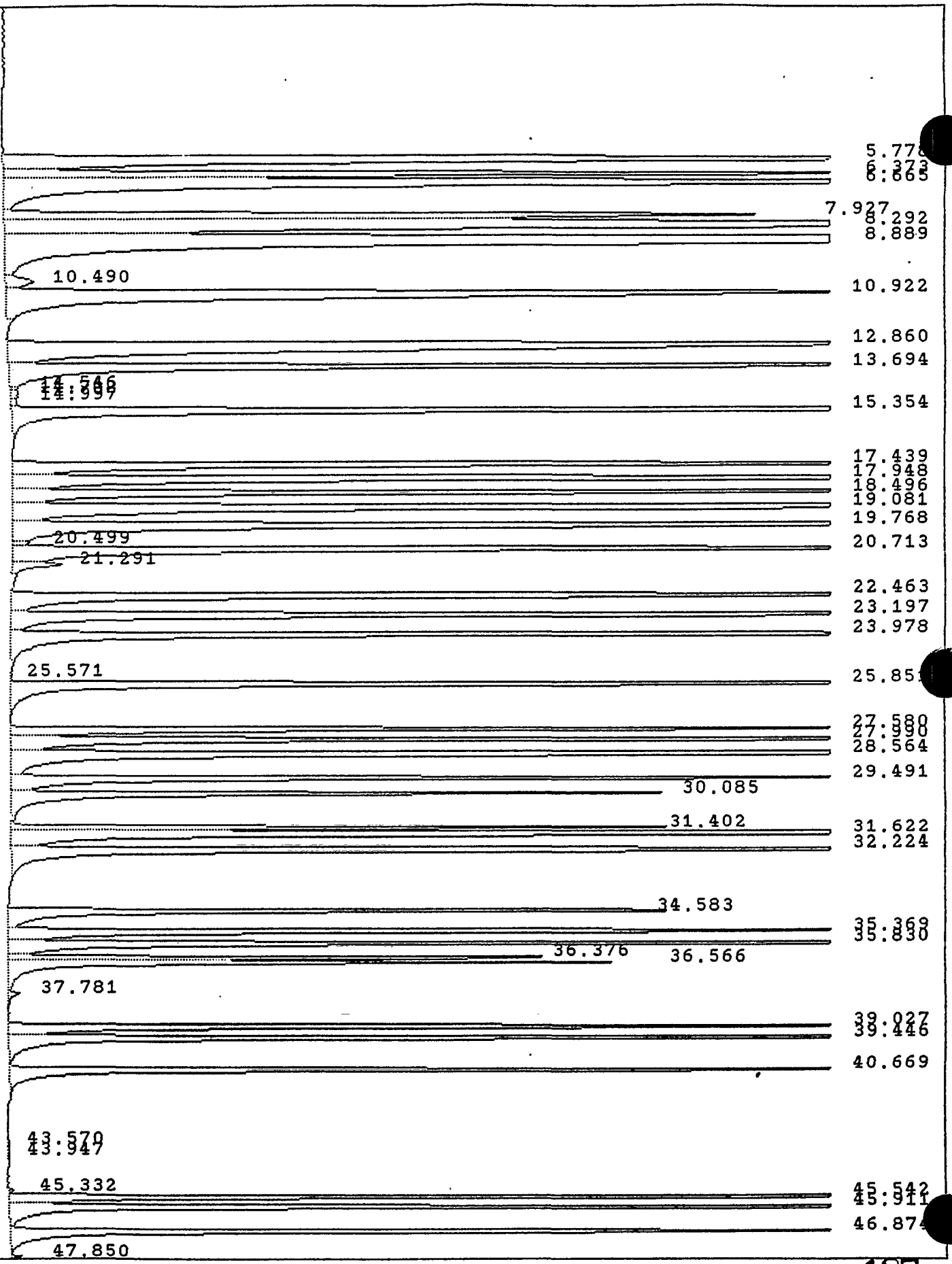

SAMPLE NAME: CHKSTD 10-200 + 10 GASES

Resultfile: /CAP/RESULT/H08_265_381.RES

Plot Fields: 500 - 3000 Instrument - T

AR 303596

Sample Name: CHKSTD 10-200 + 10 GASES
Batch # 92265/A08 Injected on Mon Sep 21, 1992 5:32:28 pm

Instrument: TRACOR540#8HALL Employee #330
Calculation: ExternalSTD Quantitation: HeightUnits
Itfile: /CAP/RESULT/H08_265_381.RES
Modfile: /CAP/METHOD/H08_265N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
1	5.78	5.78	14273	185252	VV	12.58	DICHLORODIFLUOROMETHANE
2	6.37	6.37	11169	100389	VV	14.02	CHLOROMETHANE
3	6.67	6.66	16684	237371	VV	9.25	VINYL CHLORIDE
4	7.93	7.93	8879	106582	VV	14.04	BROMOMETHANE
5	8.29	8.29	22752	316204	VV	15.44	CHLOROETHANE
6	8.89	8.89	26327	436624	VV	11.25	TRICHLOROFLUOROMETHANE
8	10.92	#10.92	10072	177010	VV	5.48	1,1-DICHLOROETHENE
9	12.86	#12.86	14206	216015	PV	4.64	METHYLENE CHLORIDE
10	13.69	#13.69	18830	169897	VV	4.69	TRANS-1,2-DICHLOROETHENE
14	15.35	#15.35	18805	172556	VV	4.86	1,1-DICHLOROETHANE
15	17.44	#17.44	21351	160606	BV	4.96	CIS-1,2-DICHLOROETHENE
16	17.95	#17.95	31115	250409	VV	5.60	CHLOROFORM
17	18.50	#18.50	14903	122032	VV	4.95	BROMOCHLOROMETHANE
18	19.08	#19.08	18039	202496	VV	4.82	1,1,1-TRICHLOROETHANE
[illegible]	19.77	#19.77	18367	198296	VV	4.94	CARBON TETRACHLORIDE
[illegible]	20.71	#20.71	21794	178627	VV	5.19	1,2-DICHLOROETHANE
23	22.46	#22.46	22403	186256	VV	4.63	TRICHLOROETHENE
24	23.20	#23.20	17482	154491	VV	4.84	1,2-DICHLOROPROPANE
25	23.98	#23.98	17990	157542	VV	4.92	BROMODICHLOROMETHANE
27	25.85	#25.85	21287	165254	VV	6.55	CIS-1,3-DICHLOROPROPENE
28	27.58	#27.58	11233	93674	BV	4.16	TRANS-1,3-DICHLOROPROPENE
29	27.99	#27.99	24452	173819	VV	5.60	1,1,2-TRICHLOROETHANE
30	28.56	#28.56	25817	208685	VV	5.45	TETRACHLOROETHENE
31	29.49	#29.49	12417	101422	VV	5.47	DIBROMOCHLOROMETHANE
32	30.08	#30.08	7443	69306	VV	5.54	ETHYLENE DIBROMIDE
33	31.40	#31.40	7794	52348	VV	5.24	CHLOROBENZENE
34	31.62	#31.62	23906	204001	VV	4.52	1,1,1,2-TETRACHLOROETHANE
35	32.22	#32.22	29686	213481	VV	106.04	SURR--1CL2FBENZENE
36	34.58	#34.58	8834	75232	PV	6.59	BROMOFORM
37	35.37	#35.37	15249	112418	VV	4.81	1,1,2,2-TETRACHLOROETHANE
38	35.83	#35.83	13154	99038	VV	5.10	1,2,3-TRICHLOROPROPANE
39	36.38	#36.38	6673	46947	VV	4.36	O-CHLOROTOLUENE
40	36.57	#36.57	7219	66587	VV	4.24	P-CHLOROTOLUENE
42	39.03	#39.03	11993	90544	PV	5.48	M-DICHLOROBENZENE
43	39.45	#39.45	14347	110725	VV	5.52	P-DICHLOROBENZENE
44	40.67	#40.67	13927	100224	VV	5.85	O-DICHLOROBENZENE
48	45.54	45.58	14105	88536	VV	4.94	1,2,4-TRICHLOROBENZENE
49	45.91	45.96	20219	131839	VV	5.08	HEXACHLOROBUTADIENE
50	46.87	46.92	17744	117578	VV	6.18	1,2,3-TRICHLOROBENZENE

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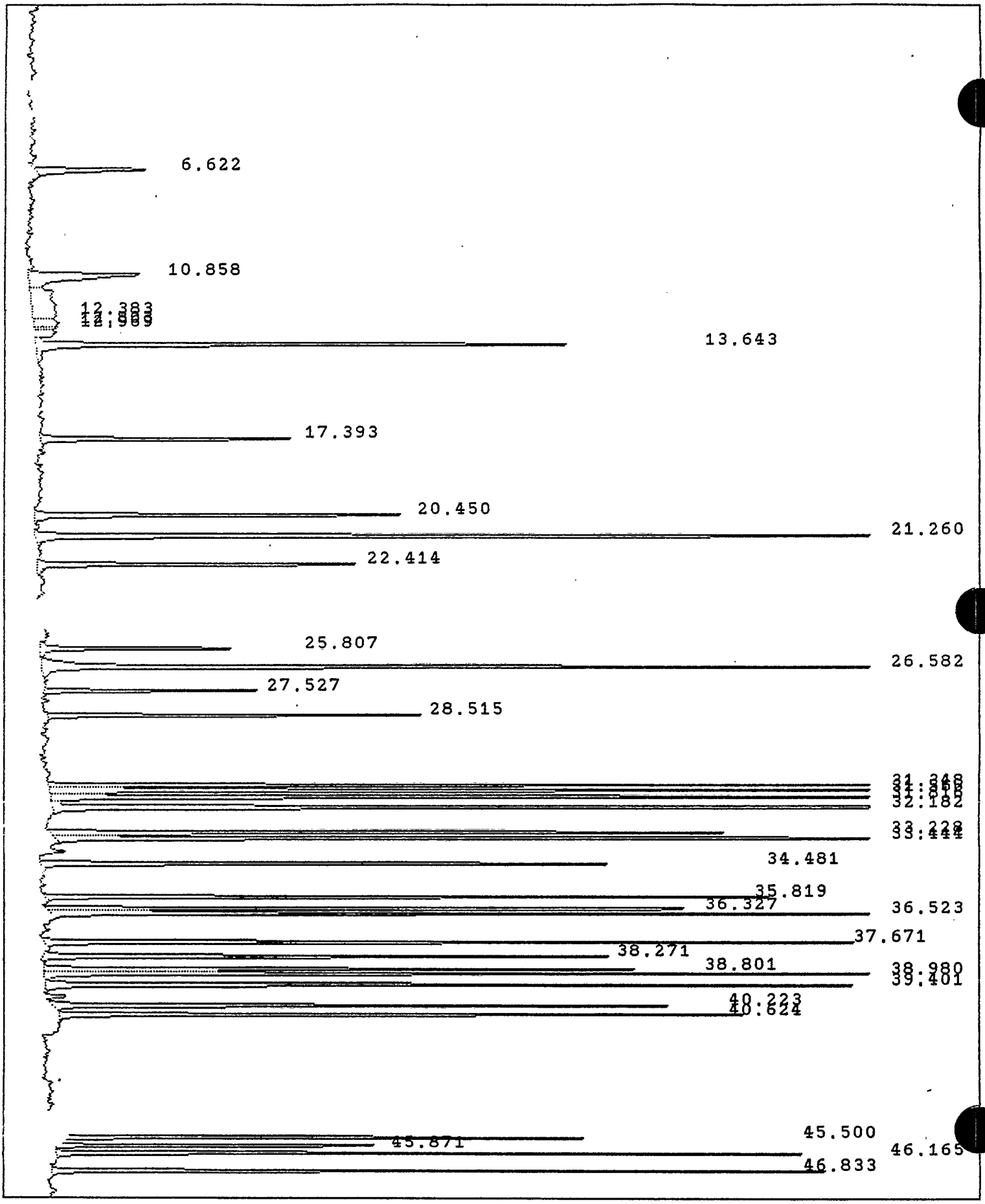


SAMPLE NAME: CHKSTD 10-200 + 10 GASES
Resultfile: /CAP/RESULT/P08_265_381.RES
Plot Fields: 6910 - 7310 Instrument - TRACOR540#8PAD

AR303598

Sample Name: CHKSTD 10-200 + 10 GASES
Batch # 92265/A08 Injected on Mon Sep 21, 1992 5:32:28 pm

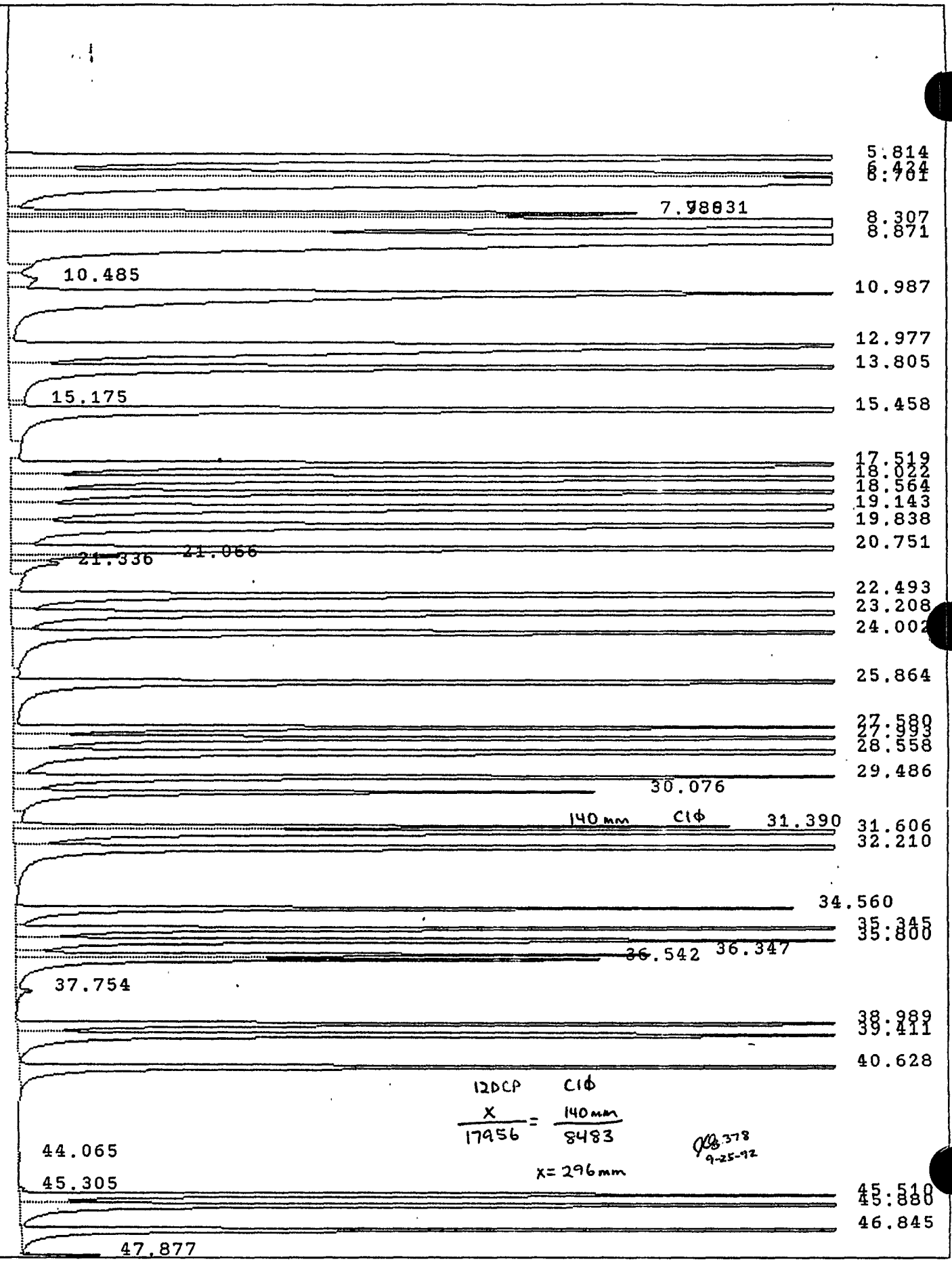
Instrument: TRACOR540#8PID Employee #330
Calculation: InternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/P08_265_381.RES
Methodfile: /CAP/METHOD/P08_265N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - PID Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.00
Threshold - 3.0 Minimum Area - 2.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Timed Events	Time	Event	Logic	Value	EventUpdate
1	27.500	SetPeakWidth	Event	.00	False
2	28.500	SetPeakWidth	Event	.00	False
3	30.100	SetPeakWidth	Event	.00	False

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
1	6.62	6.66	211	2168	PV	10.80	VINYL CHLORIDE
2	10.86	10.90	216	3543	PV	6.38	1,1-DICHLOROETHENE
6	13.64	#13.64	1192	7896	VV	5.10	TRANS-1,2-DICHLOROETHENE
7	17.39	#17.39	543	3545	BV	5.06	CIS-1,2-DICHLOROETHENE
8	20.45	#20.45	784	5366	BV	3.91	BENZENE
9	21.26	#21.26	2170	13281	VV	101.44	SURR--FBENZENE
10	22.41	#22.41	709	4508	VV	4.38	TRICHLOROETHENE
11	25.81	#25.81	459	2784	VV	6.26	CIS-1,3-DICHLOROPROPENE
12	26.58	#26.58	1844	11478	PV	5.67	TOLUENE
13	27.53	#27.53	449	2368	BV	10.36	TRANS-1,3-DICHLOROPROPENE
14	28.52	#28.52	799	4413	BB	5.43	TETRACHLOROETHENE
15	31.35	#31.35	1862	9880	BV	4.94	CHLOROBENZENE
[illegible]	31.57	#31.57	1881	10318	VV	6.00	ETHYLBENZENE
[illegible]	31.82	#31.82	1958	10768	VV	5.42	M-XYLENE
18	32.18	#32.18	4677	23785	VB		ISTD--1CL2FBENZENE
19	33.23	#33.23	1568	8264	BV	5.16	O-XYLENE
20	33.44	#33.44	2313	11865	VV	5.48	STYRENE
21	34.48	#34.48	1303	7162	BV	5.44	CUMENE
22	35.82	#35.82	1533	8071	BV	4.85	N-PROPYLBENZENE
23	36.33	#36.33	1660	8586	BV	5.06	O-CHLOROTOLUENE
24	36.52	#36.52	1789	9191	VV	4.91	P-CHLOROTOLUENE
25	37.67	#37.67	1697	8909	BV	5.39	1,2,4-TRIMETHYLBENZENE
26	38.27	#38.27	1162	6543	BB	5.14	SEC-BUTYLBENZENE
27	38.80	#38.80	1234	6554	BV	5.13	P-ISOPROPYLTOLUENE
28	38.98	#38.98	1785	9393	VV	5.60	M-DICHLOROBENZENE
29	39.40	#39.40	1712	8770	VB	5.13	P-DICHLOROBENZENE
30	40.22	#40.22	1299	6905	BB	5.13	N-BUTYLBENZENE
31	40.62	#40.62	1515	7775	BB	5.50	O-DICHLOROBENZENE
32	45.50	45.53	1368	5452	BB	5.07	1,2,4-TRICHLOROBENZENE
33	45.87	45.90	873	3809	BB	4.88	HEXACHLOROBUTADIENE
34	46.16	46.20	1663	6979	BB	4.82	NAPHTHALENE
35	46.83	46.87	1700	7385	BB	6.46	1,2,3-TRICHLOROBENZENE

Internal Standard Range: 4817 - 7225 (Midpoint - 6021)
*** istd height too low ***
Using check standard file. /CAP/RESULT/P08_258_361.RES
Reported on Tue Sep 22, 1992 8:13:18 am
Report Formatfile: /DATA/FORMAT/CAPPID.FMT



SAMPLE NAME: CHKSTD 10-200 + 10 GASES
Resultfile: /CAP/RESULT/H08_265_395.RES
Plot Fields: - 3000 Instrument - TRACOR540#8HALL

AR303600

Sample Name: CHKSTD 10-200 + 10 GASES
Batch # 92265/A08 Injected on Tue Sep 22, 1992 6:38:10 pm

Instrument: TRACOR540#8HALL Employee #330
Calculation: ExternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/H08_265_395.RES
Methodfile: /CAP/METHOD/H08_265N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
1	5.81	5.81	12585	190253	PV	11.41	DICHLORODIFLUOROMETHANE
2	6.42	6.44	11741	128449	VV	14.51	CHLOROMETHANE
3	6.70	6.70	20816	345830	VV	11.08	VINYL CHLORIDE
5	7.99	7.99	6977	41294	VV	11.79	BROMOMETHANE
6	8.31	8.35	18221	348339	VV	11.07	CHLOROETHANE
7	8.87	8.94	21614	504485	VV	9.73	TRICHLOROFLUOROMETHANE
9	10.99	#10.99	9568	197680	VV	5.27	1,1-DICHLOROETHENE
10	12.98	#12.98	12109	231347	VV	3.80	METHYLENE CHLORIDE
11	13.81	#13.81	18625	186037	VV	4.64	TRANS-1,2-DICHLOROETHENE
13	15.46	#15.46	20462	201080	VV	5.23	1,1-DICHLOROETHANE
14	17.52	#17.52	23215	178208	VV	5.31	CIS-1,2-DICHLOROETHENE
15	18.02	#18.02	33853	272890	VV	5.97	CHLOROFORM
16	18.56	#18.56	15150	127483	VV	5.02	BROMOCHLOROMETHANE
17	19.14	#19.14	20017	216293	VV	5.31	1,1,1-TRICHLOROETHANE
[illegible]	19.84	#19.84	18717	207849	VV	5.03	CARBON TETRACHLORIDE
[illegible]	20.75	#20.75	22502	179300	VV	5.34	1,2-DICHLOROETHANE
22	22.49	#22.49	26863	202181	VV	5.40	TRICHLOROETHENE
23	23.21	#23.21	17956	165213	VV	4.97	1,2-DICHLOROPROPANE
24	24.00	#24.00	20492	172930	VV	5.49	BROMODICHLOROMETHANE
25	25.86	#25.86	21188	168636	VV	6.52	CIS-1,3-DICHLOROPROPENE
26	27.58	#27.58	11795	91090	VV	4.29	TRANS-1,3-DICHLOROPROPENE
27	27.99	#27.99	21805	164382	VV	5.13	1,1,2-TRICHLOROETHANE
28	28.56	#28.56	26603	205291	VV	5.56	TETRACHLOROETHENE
29	29.49	#29.49	13726	107545	VV	5.89	DIBROMOCHLOROMETHANE
30	30.08	#30.08	6750	66601	VV	5.18	ETHYLENE DIBROMIDE
31	31.39	#31.39	8483	56299	VV	5.61	CHLOROBENZENE
32	31.61	#31.61	25061	210750	VV	4.72	1,1,1,2-TETRACHLOROETHANE
33	32.21	#32.21	23356	184899	VV	83.43	SURR-1CL2FBENZENE
34	34.56	#34.56	9183	75801	VV	6.78	BROMOFORM
35	35.34	#35.34	14690	113493	VV	4.66	1,1,2,2-TETRACHLOROETHANE
36	35.80	#35.80	11895	96611	VV	4.68	1,2,3-TRICHLOROPROPANE
37	36.35	#36.35	7578	51933	VV	4.85	O-CHLOROTOLUENE
38	36.54	#36.54	7557	72118	VV	4.42	P-CHLOROTOLUENE
40	38.99	#38.99	13709	97211	PV	5.98	M-DICHLOROBENZENE
41	39.41	#39.41	14400	116353	VV	5.53	P-DICHLOROBENZENE
42	40.63	#40.63	13145	106180	VV	5.64	O-DICHLOROBENZENE
45	45.51	45.54	15633	95687	VV	5.22	1,2,4-TRICHLOROBENZENE
46	45.88	45.90	22397	147047	VV	5.49	HEXACHLOROBUTADIENE
47	46.84	46.87	18132	121451	VV	6.28	1,2,3-TRICHLOROBENZENE

Reported on Tue Sep 22, 1992 7:31:49 pm
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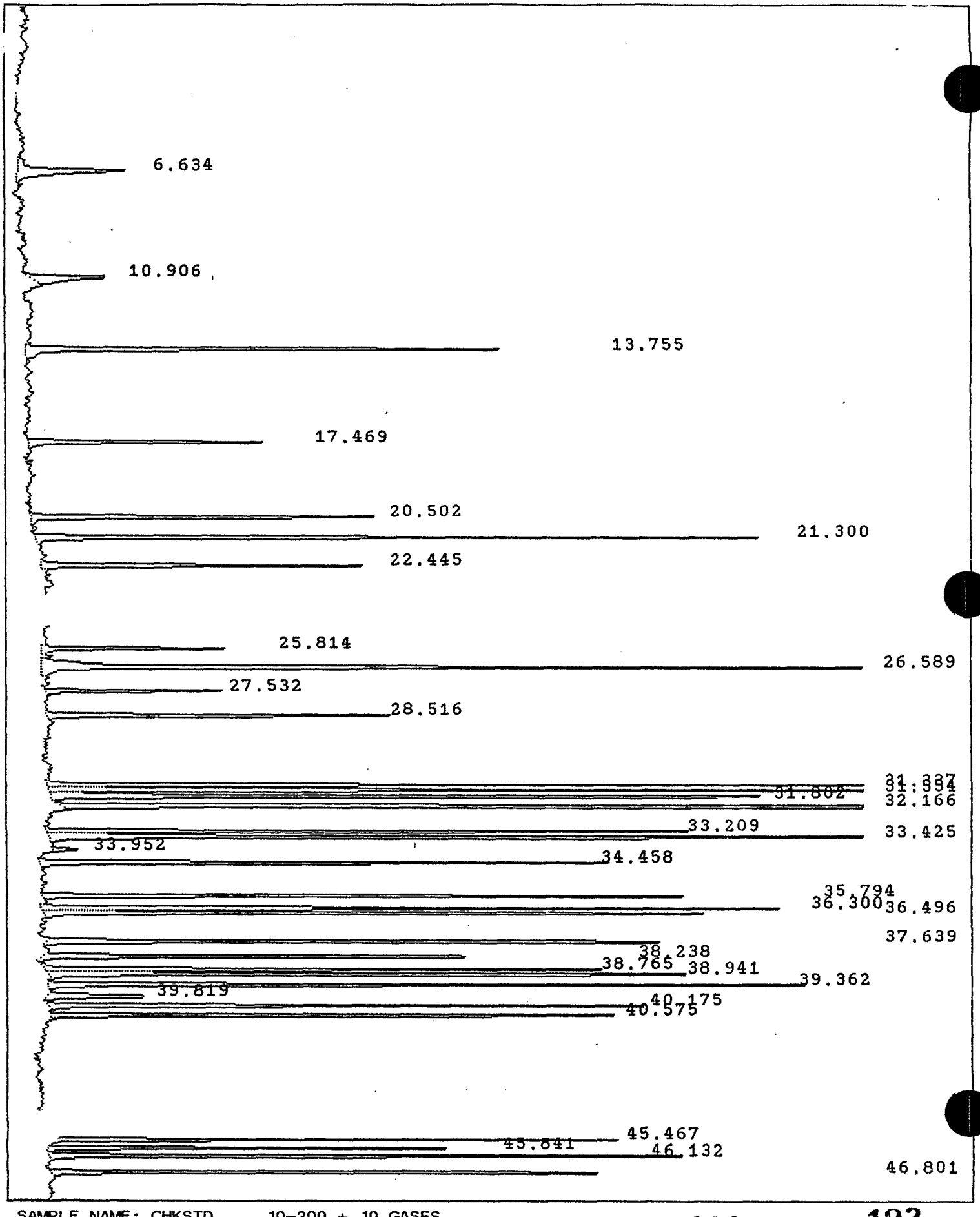

SAMPLE NAME: CHKSTD 10-200 + 10 GASES
Resultfile: /CAP/RESULT/P08_265_395.RES
Plot Fields: 69.10 - 73.10 Instrument TRACOR540#2PID

AR303602

Sample Name: CHKSTD 10-200 + 10 GASES
Batch # 92265/A08 Injected on Tue Sep 22, 1992 6:38:10 pm

Instrument: TRACOR540#8PID Employee #330
Calculation: InternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/P08_265_395.RES
Methodfile: /CAP/METHOD/P08_265N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - PID Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.00
Threshold - 3.0 Minimum Area - 2.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Timed Events	Time	Event	Logic	Value	EventUpdate
1	27.500	SetPeakWidth	Event	.00	False
2	28.500	SetPeakWidth	Event	.00	False
3	30.100	SetPeakWidth	Event	.00	False

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
1	6.63	6.63	209	3017	PV	12.73	VINYL CHLORIDE
2	10.91	10.91	160	1911	BV	5.84	1,1-DICHLOROETHENE
3	13.75	#13.75	1069	6932	PB	5.54	TRANS-1,2-DICHLOROETHENE
4	17.47	#17.47	501	3209	BV	5.67	CIS-1,2-DICHLOROETHENE
5	20.50	#20.50	737	4794	BV	4.41	BENZENE
6	21.30	#21.30	1462	9006	PV	83.42	SURR-FBENZENE
7	22.45	#22.45	648	3944	BV	4.86	TRICHLOROETHENE
8	25.81	#25.81	414	2397	VV	6.86	CIS-1,3-DICHLOROPROPENE
9	26.59	#26.59	1688	10810	VV	6.32	TOLUENE
10	27.53	#27.53	386	2089	PV	10.48	TRANS-1,3-DICHLOROPROPENE
[illegible]	28.52	#28.52	748	4250	BB	6.12	TETRACHLOROETHENE
[illegible]	31.34	#31.34	1756	9184	BV	5.65	CHLOROBENZENE
13	31.55	#31.55	1800	9614	VV	7.01	ETHYLBENZENE
14	31.80	#31.80	1799	9798	VB	6.06	M-XYLENE
15	32.17	#32.17	3832	19297	BV		ISTD-1CL2FBENZENE
16	33.21	#33.21	1442	7666	BV	5.77	O-XYLENE
17	33.42	#33.42	2095	10980	VV	6.04	STYRENE
19	34.46	#34.46	1221	6749	BB	6.17	CUMENE
20	35.79	#35.79	1436	7569	BB	5.50	N-PROPYLBENZENE
21	36.30	#36.30	1523	7930	BV	5.64	O-CHLOROTOLUENE
22	36.50	#36.50	1653	8652	VB	5.50	P-CHLOROTOLUENE
23	37.64	#37.64	1553	8126	BV	6.00	1,2,4-TRIMETHYLBENZENE
24	38.24	#38.24	1082	6012	BV	5.76	SEC-BUTYLBENZENE
25	38.76	#38.76	1187	6292	PV	5.90	P-ISOPROPYLTOLUENE
26	38.94	#38.94	1633	8450	VB	6.23	M-DICHLOROBENZENE
27	39.36	#39.36	1610	8002	BB	5.84	P-DICHLOROBENZENE
29	40.17	#40.17	1242	6514	PB	5.86	N-BUTYLBENZENE
30	40.58	#40.58	1367	6987	BV	6.06	O-DICHLOROBENZENE
31	45.47	45.53	1272	5180	BV	5.72	1,2,4-TRICHLOROBENZENE
32	45.84	45.90	884	3790	BV	5.93	HEXACHLOROBUTADIENE
33	46.13	46.20	1539	6482	PB	5.39	NAPHTHALENE
34	46.80	46.87	1585	6762	BB	7.31	1,2,3-TRICHLOROBENZENE

Internal Standard Range: 3742 - 5613 (Midpoint - 4677)

Using check standard file. /CAP/RESULT/P08_265_381.RES
Printed on Tue Sep 22, 1992 7:34:43 pm
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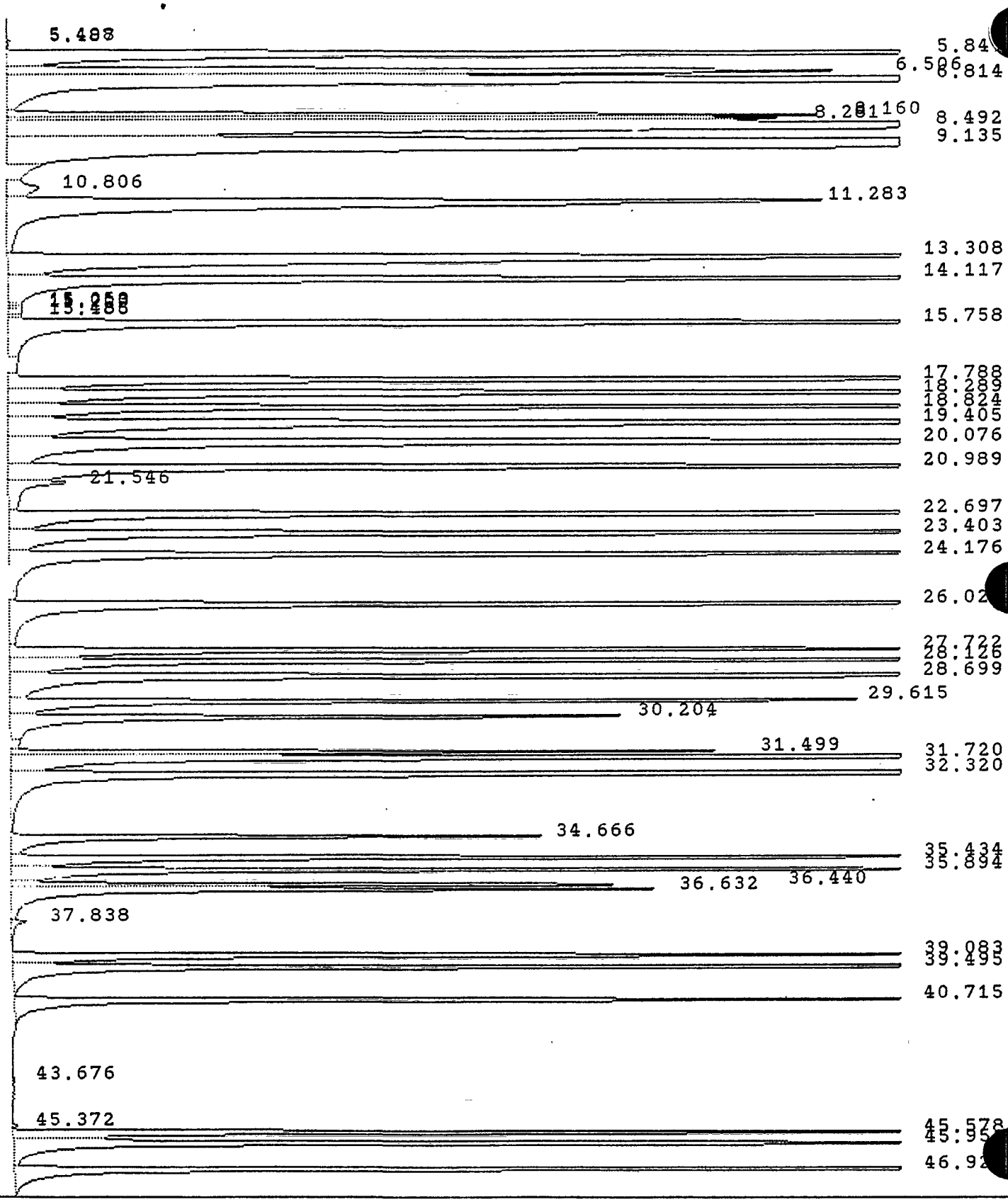


SAMPLE NAME: CHKSTD 10-200 + 10 GASES 9
Resultfile: /CAP/RESULT/H08_265_412.RES
Plot Fields: 500 - 3000 Instrument - TRACOR5[illegible]

AR303604

Sample Name: CHKSTD 10-200 + 10 GASES 9
Batch # 92265/A08 Injected on Wed Sep 23, 1992 7:00:43 pm

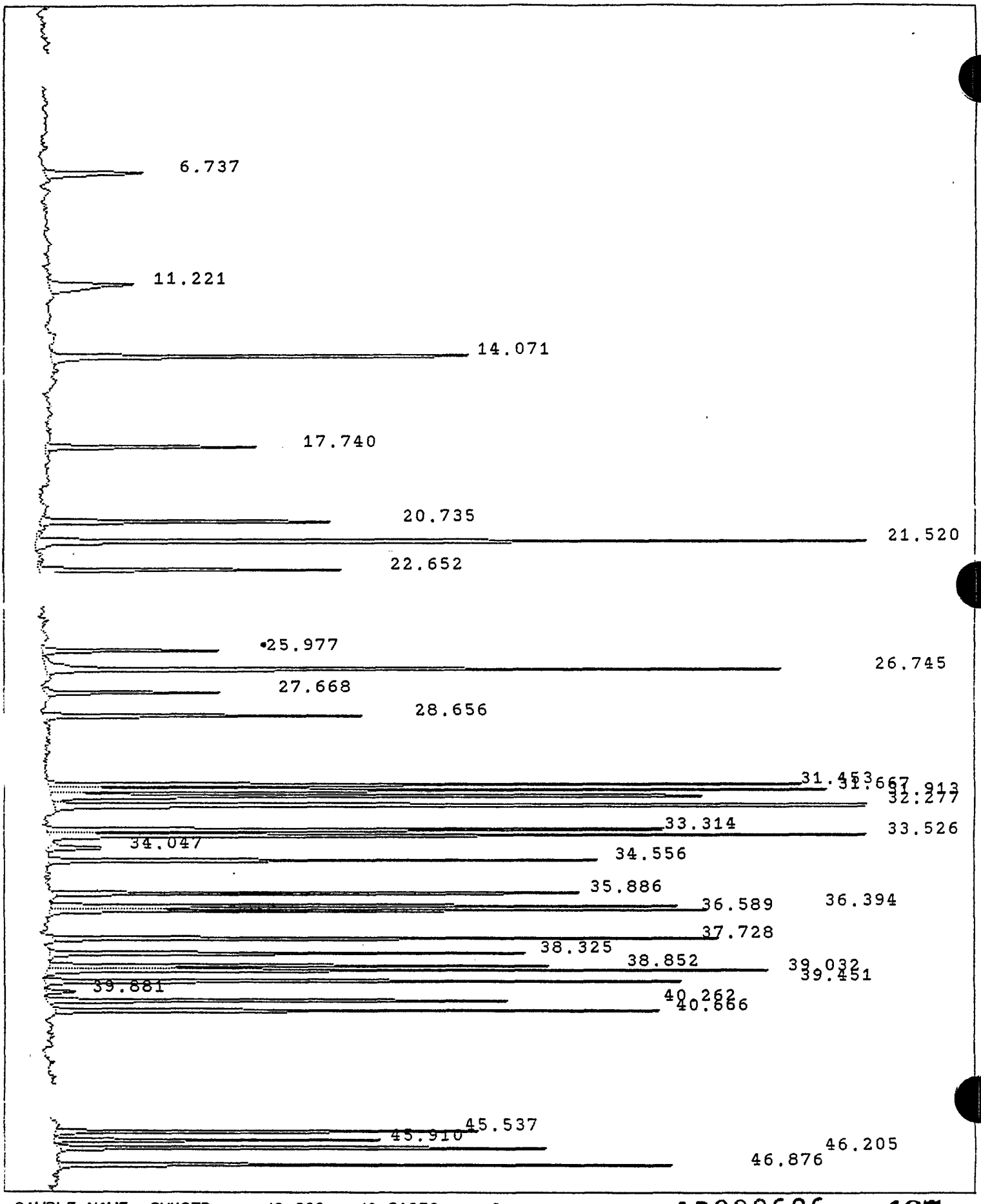
Instrument: TRACOR540#8HALL Employee #330
Ca'ulation: ExternalSTD Quantitation: HeightUnits
tfile: /CAP/RESULT/H08_265_412.RES
hodfile: /CAP/METHOD/H08_265KLB.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

M-an for sum
KLB 439
9-25-92

Integration Parameters: Run Time - 48.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
3	5.85	5.85	13023	165719	VV	11.71	DICHLORODIFLUOROMETHANE
4	6.51	6.49	9124	101981	VV	12.28	CHLOROMETHANE
7	8.28	8.33	8501	49544	VV	6.18	CHLOROETHANE
17	15.49	#15.57	153	1243	VV	.06	1,1-DICHLOROETHANE
19	17.79	#17.65	19926	167703	VV	4.65	CIS-1,2-DICHLOROETHENE
20	18.29	#18.17	27239	233869	VV	5.07	CHLOROFORM
21	18.82	#18.71	13322	115811	VV	4.47	BROMOCHLOROMETHANE
22	19.40	#19.29	18213	198653	VV	4.86	1,1,1-TRICHLOROETHANE
23	20.08	#19.98	18503	209299	VV	4.97	CARBON TETRACHLORIDE
24	20.99	#20.89	22236	178240	VV	5.29	1,2-DICHLOROETHANE
26	22.70	#22.65	22084	178208	VV	4.57	TRICHLOROETHENE
27	23.40	#23.36	17576	153096	VV	4.86	1,2-DICHLOROPROPANE
28	24.18	#24.15	16730	147792	VV	4.62	BROMODICHLOROMETHANE
29	26.02	#26.01	21249	168734	VV	6.54	CIS-1,3-DICHLOROPROPENE
[illegible]	27.72	#27.71	12367	95405	VV	4.43	TRANS-1,3-DICHLOROPROPENE
[illegible]	28.13	#28.12	20235	159728	VV	4.78	1,1,2-TRICHLOROETHANE
32	28.70	#28.69	24492	198126	VV	5.25	TETRACHLOROETHENE
33	29.61	#29.62	10778	86822	VV	4.95	DIBROMOCHLOROMETHANE
34	30.20	#30.21	6911	67452	VV	5.26	ETHYLENE DIBROMIDE
35	31.50	#31.51	8123	52871	VV	5.42	CHLOROBENZENE
36	31.72	#31.73	24382	197630	VV	4.60	1,1,1,2-TETRACHLOROETHANE
37	32.32	#32.33	26257	204627	VV	100.00	SURR-1CL2FBENZENE
38	34.67	#34.68	5748	52074	VV	4.85	BROMOFORM
39	35.43	#35.47	14753	111700	VV	4.68	1,1,2,2-TETRACHLOROETHANE
40	35.89	#35.92	11939	96218	VV	4.69	1,2,3-TRICHLOROPROPANE
41	36.44	#36.47	7975	51058	VV	5.04	O-CHLOROTOLUENE
42	36.63	#36.66	7276	69173	VV	4.27	P-CHLOROTOLUENE
44	39.08	#39.13	14228	98675	PV	6.13	M-DICHLOROBENZENE
45	39.49	#39.54	14427	109326	VV	5.54	P-DICHLOROBENZENE
46	40.71	#40.76	13488	101165	VV	5.73	O-DICHLOROBENZENE
49	45.58	45.60	14431	88285	VV	5.00	1,2,4-TRICHLOROBENZENE
50	45.95	45.97	18888	134602	VV	4.76	HEXACHLOROBUTADIENE
51	46.92	46.94	16749	114484	VB	5.91	1,2,3-TRICHLOROBENZENE

Reported on Fri Sep 25, 1992 4:13:15 pm
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT



SAMPLE NAME: CHKSTD 10-200 + 10 GASES 9

Resultfile: /CAP/RESULT/P08_265_412.RES

Sample Name: CHKSTD 10-200 + 10 GASES 9
Batch # 92265/A08 Injected on Wed Sep 23, 1992 7:00:43 pm

Instrument: TRACOR540#8PID Employee #330
Calculation: InternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/P08_265_412.RES
odfile: /CAP/METHOD/P08_265KLB.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - PID Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Re-run for sum
CW 439
9-25-92

Integration Parameters: Run Time - 48.00
Threshold - 3.0 Minimum Area - 2.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Timed Events	Time	Event	Logic	Value	EventUpdate
1	27.500	SetPeakWidth	Event	.00	False
2	28.500	SetPeakWidth	Event	.00	False
3	30.100	SetPeakWidth	Event	.00	False

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
1	6.74	6.73	191	1976	VV	11.63	VINYL CHLORIDE
2	11.22	11.22	171	2284	PV	6.10	1,1-DICHLOROETHENE
3	14.07	#14.07	984	6306	BB	5.07	TRANS-1,2-DICHLOROETHENE
4	17.74	#17.74	445	2900	VV	5.00	CIS-1,2-DICHLOROETHENE
5	20.73	#20.73	642	4203	BV	3.86	BENZENE
6	21.52	#21.52	2143	13259	PV	100.02	SURR-FBENZENE
7	22.65	#22.65	639	3912	VV	4.73	TRICHLOROETHENE
8	25.98	#25.98	387	2294	BV	6.34	CIS-1,3-DICHLOROPROPENE
9	26.75	#26.75	1545	9328	PV	5.72	TOLUENE
10	27.67	#27.67	393	2199	BB	10.49	TRANS-1,3-DICHLOROPROPENE
11	28.66	#28.66	671	3776	BV	5.48	TETRACHLOROETHENE
	31.45	#31.45	1564	8154	BV	5.00	CHLOROBENZENE
	31.67	#31.67	1592	8589	VV	6.12	ETHYLBENZENE
14	31.91	#31.91	1660	9048	VV	5.52	M-XYLENE
15	32.28	#32.28	3884	20031	VV		ISTD-1CL2FBENZENE
16	33.31	#33.31	1332	7130	PV	5.28	O-XYLENE
17	33.53	#33.53	1914	9957	VB	5.46	STYRENE
19	34.56	#34.56	1120	6100	BV	5.61	CUMENE
20	35.89	#35.89	1308	6736	BV	4.98	N-PROPYLBENZENE
21	36.39	#36.39	1409	7252	BV	5.17	O-CHLOROTOLUENE
22	36.59	#36.59	1488	7717	VB	4.92	P-CHLOROTOLUENE
23	37.73	#37.73	1435	7366	BV	5.49	1,2,4-TRIMETHYLBENZENE
24	38.33	#38.33	980	5381	BB	5.21	SEC-BUTYLBENZENE
25	38.85	#38.85	1069	5593	BV	5.33	P-ISOPROPYLTOLUENE
26	39.03	#39.03	1488	7708	VB	5.62	M-DICHLOROBENZENE
27	39.45	#39.45	1402	7102	BV	5.07	P-DICHLOROBENZENE
29	40.26	#40.26	1109	5829	BV	5.26	N-BUTYLBENZENE
30	40.67	#40.67	1260	6319	BV	5.51	O-DICHLOROBENZENE
31	45.54	45.53	1119	4533	BB	5.00	1,2,4-TRICHLOROBENZENE
32	45.91	45.90	716	3211	BV	4.83	HEXACHLOROBUTADIENE
33	46.21	46.20	1390	5795	PB	4.85	NAPHTHALENE
34	46.88	46.87	1386	5884	BB	6.35	1,2,3-TRICHLOROBENZENE

Internal Standard Range: 3107 - 4660 (Midpoint - 3884)

Using check standard file. /CAP/RESULT/P08_265_412.RES
Reported on Fri Sep 25, 1992 4:15:48 pm
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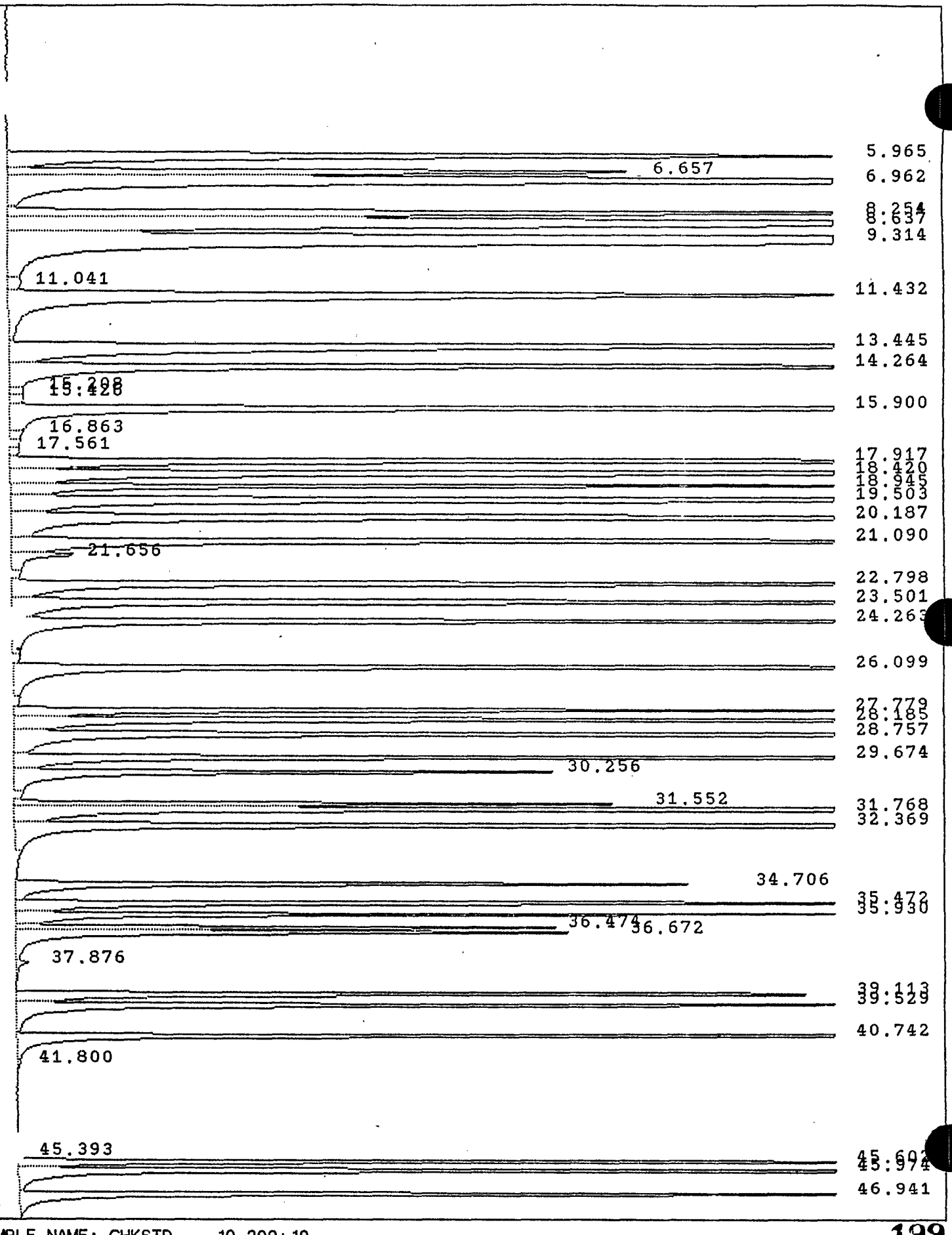


SAMPLE NAME: CHKSTD 10-200+10
Resultfile: /CAP/RESULT/H08_265_420.RES
Plot Fields: 500 - 3000 Instrument - TRACOR540#8HALL

AR303608

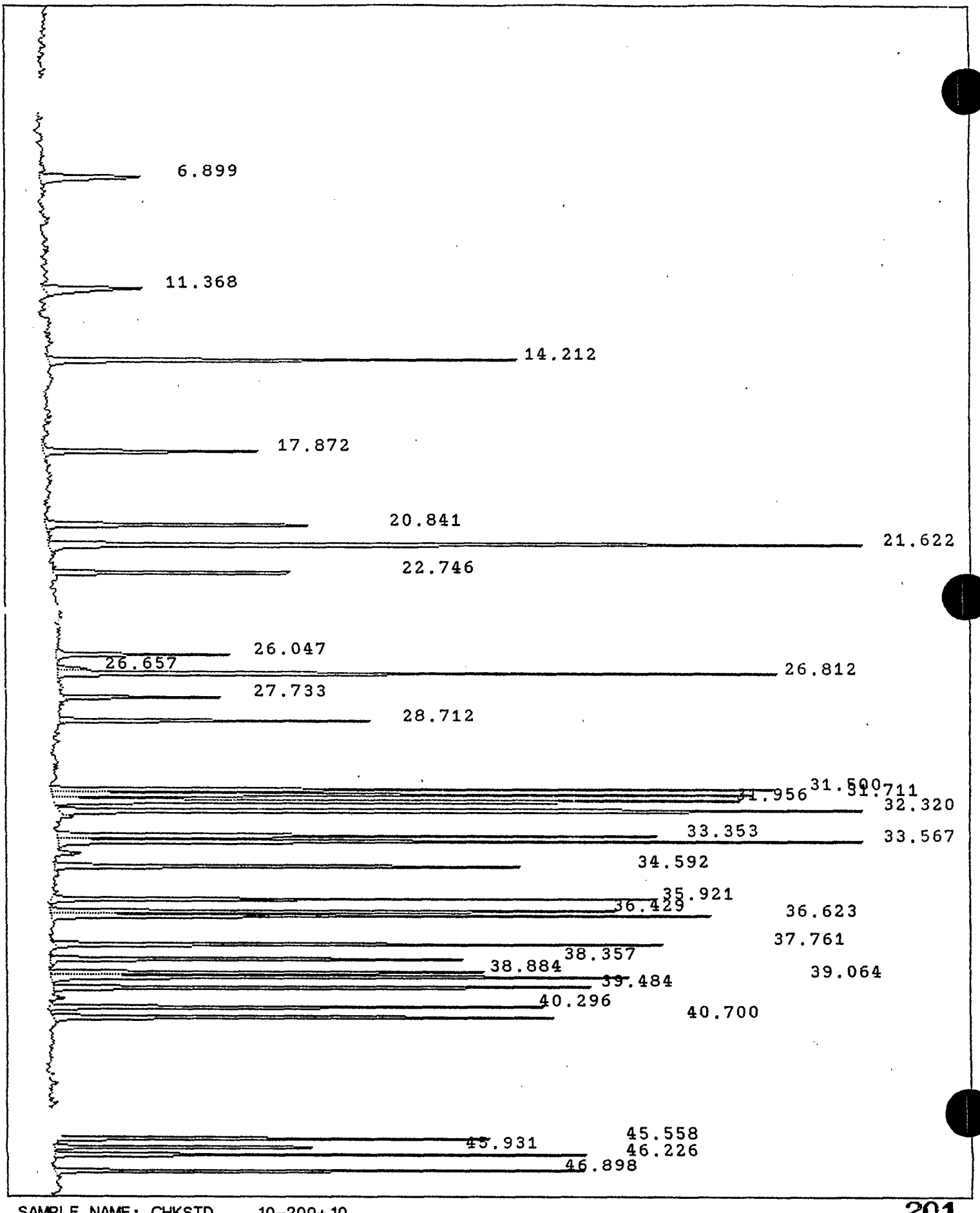
Sample Name: CHKSTD 10-200+10
Batch # 92265/A08 Injected on Thu Sep 24, 1992 5:54:08 am

Instrument: TRACOR540#8HALL Employee #768
Calculation: ExternalSTD Quantitation: HeightUnits
Itfile: /CAP/RESULT/H08_265_420.RES
Mnodfile: /CAP/METHOD/H08_265N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.02
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
4	8.25	8.21	11455	123938	VV	17.10	BROMOMETHANE
16	17.92	#17.79	20618	162838	VV	4.80	CIS-1,2-DICHLOROETHENE
17	18.42	#18.29	28035	233594	VV	5.18	CHLOROFORM
18	18.95	#18.82	15266	117072	VV	5.06	BROMOCHLOROMETHANE
19	19.50	#19.40	17952	200174	VV	4.80	1,1,1-TRICHLOROETHANE
20	20.19	#20.08	19442	207348	VV	5.22	CARBON TETRACHLORIDE
21	21.09	#20.99	19041	163955	VV	4.55	1,2-DICHLOROETHANE
23	22.80	#22.70	22676	188901	VV	4.68	TRICHLOROETHENE
24	23.50	#23.40	18344	160918	VV	5.08	1,2-DICHLOROPROPANE
25	24.26	#24.18	18561	153098	VV	5.05	BROMODICHLOROMETHANE
26	26.10	#26.02	19211	162571	VV	5.94	CIS-1,3-DICHLOROPROPENE
27	27.78	#27.72	11332	87475	VV	4.18	TRANS-1,3-DICHLOROPROPENE
28	28.19	#28.13	19231	153070	VV	4.55	1,1,2-TRICHLOROETHANE
29	28.76	#28.70	22581	191099	VV	4.95	TETRACHLOROETHENE
[illegible]	29.67	#29.61	11994	99209	VV	5.34	DIBROMOCHLOROMETHANE
[illegible]	30.26	#30.20	6750	64902	VV	5.18	ETHYLENE DIBROMIDE
32	31.55	#31.50	7349	48296	VV	4.97	CHLOROBENZENE
33	31.77	#31.72	25571	202164	VV	4.81	1,1,1,2-TETRACHLOROETHANE
34	32.37	#32.32	27860	199799	VV	99.51	SURR--1CL2FBENZENE
35	34.71	#34.67	8426	72216	VV	6.37	BROMOFORM
36	35.47	#35.43	12790	99544	VV	4.15	1,1,2,2-TETRACHLOROETHANE
37	35.93	#35.89	10755	87034	VV	4.27	1,2,3-TRICHLOROPROPANE
38	36.47	#36.44	6736	46500	VV	4.40	O-CHLOROTOLUENE
39	36.67	#36.63	6779	65079	VV	4.01	P-CHLOROTOLUENE
41	39.11	#39.08	11169	82641	BV	5.24	M-DICHLOROBENZENE
42	39.53	#39.49	11571	96715	VV	4.61	P-DICHLOROBENZENE
43	40.74	#40.71	12632	99339	VV	5.46	O-DICHLOROBENZENE
46	45.60	45.54	12369	81432	VV	4.41	1,2,4-TRICHLOROBENZENE
47	45.97	45.92	20454	139073	VV	5.14	HEXACHLOROBUTADIENE
48	46.94	46.88	15249	105365	VV	5.50	1,2,3-TRICHLOROBENZENE

Reported on Thu Sep 24, 1992 6:44:02 am
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT



SAMPLE NAME: CHKSTD 10-200+10
Resultfile: /CAP/RESULT/P08_265_420.RES
Plot Fields: 6910 - 7310 Instrument - TRACOR540#8PID

AR303610

Sample Name: CHKSTD 10-200+10
Batch # 92265/A08 Injected on Thu Sep 24, 1992 5:54:08 am

Instrument: TRACOR540#8PID Employee #768
Calculation: InternalSTD Quantitation: HeightUnits
Itfile: /CAP/RESULT/P08_265_420.RES
Mnodfile: /CAP/METHOD/P08_265NSSI.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - PID Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

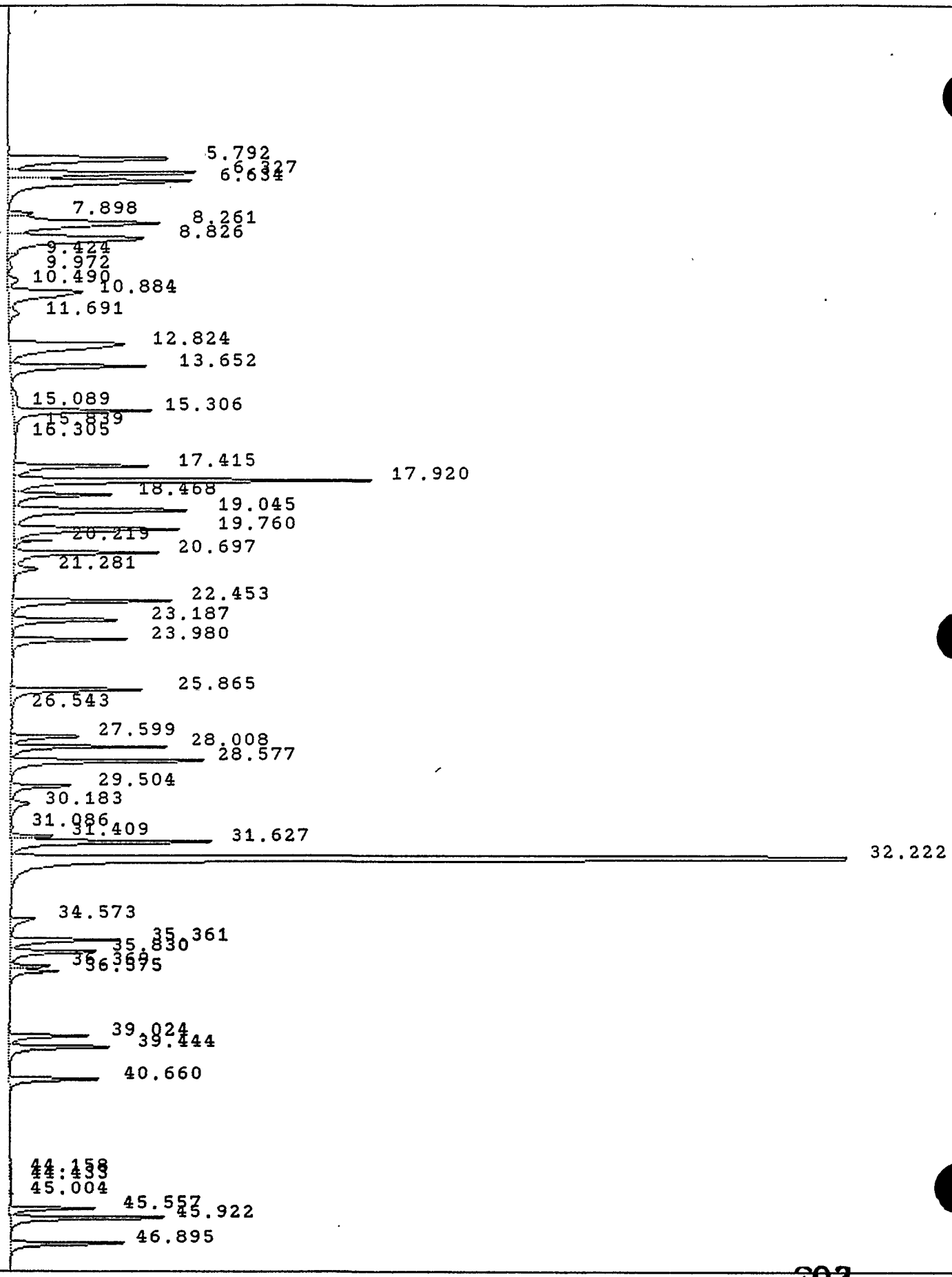
Integration Parameters: Run Time - 48.02
Threshold - 3.0 Minimum Area - 2.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Timed Events	Time	Event	Logic	Value	EventUpdate
1	27.500	SetPeakWidth	Event	.00	False
2	28.500	SetPeakWidth	Event	.00	False
3	30.100	SetPeakWidth	Event	.00	False

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
2	11.37	11.33	192	2183	PV	7.14	1,1-DICHLOROETHENE
3	14.21	#14.21	952	5853	PV	5.18	TRANS-1,2-DICHLOROETHENE
4	17.87	#17.87	441	2834	BV	5.23	CIS-1,2-DICHLOROETHENE
5	20.84	#20.84	599	3964	VV	3.82	BENZENE
6	21.62	#21.62	2256	13711	PV	111.43	SURR-FBENZENE
7	22.75	#22.75	603	3509	BV	4.73	TRICHLOROETHENE
8	26.05	#26.05	357	2061	VV	6.20	CIS-1,3-DICHLOROPROPENE
10	26.81	#26.81	1473	8396	VV	5.77	TOLUENE
11	27.73	#27.73	335	1677	BV	4.00	TRANS-1,3-DICHLOROPROPENE
12	28.71	#28.71	646	3606	BV	5.57	TETRACHLOROETHENE
	31.50	#31.50	1497	7770	BV	5.06	CHLOROBENZENE
	31.71	#31.71	1508	8173	VV	6.14	ETHYLBENZENE
15	31.96	#31.96	1585	8636	VV	5.58	M-XYLENE
16	32.32	#32.32	3670	18802	PV		ISTD-1CL2FBENZENE
17	33.35	#33.35	1239	6537	BV	5.20	O-XYLENE
18	33.57	#33.57	1796	9413	VV	5.42	STYRENE
19	34.59	#34.59	1065	5855	BV	5.65	CUMENE
20	35.92	#35.92	1262	6708	BB	5.08	N-PROPYLBENZENE
21	36.43	#36.43	1333	6951	BV	5.18	O-CHLOROTOLUENE
22	36.62	#36.62	1401	7274	VV	4.91	P-CHLOROTOLUENE
23	37.76	#37.76	1356	7071	BV	5.49	1,2,4-TRIMETHYLBENZENE
24	38.36	#38.36	936	5149	BB	5.26	SEC-BUTYLBENZENE
25	38.88	#38.88	1026	5338	BV	5.40	P-ISOPROPYLTOLUENE
26	39.06	#39.06	1387	7230	VV	5.55	M-DICHLOROBENZENE
27	39.48	#39.48	1321	6610	BB	5.05	P-DICHLOROBENZENE
28	40.30	#40.30	1066	5539	BB	5.33	N-BUTYLBENZENE
29	40.70	#40.70	1172	6080	BB	5.43	O-DICHLOROBENZENE
30	45.56	45.53	1063	4277	BB	5.03	1,2,4-TRICHLOROBENZENE
31	45.93	45.90	739	3200	BB	5.24	HEXACHLOROBUTADIENE
32	46.23	46.20	1196	5015	BB	4.45	NAPHTHALENE
33	46.90	46.87	1301	5671	BV	6.31	1,2,3-TRICHLOROBENZENE

Internal Standard Range: 3107 - 4660 (Midpoint - 3884)

Using check standard file. /CAP/RESULT/P08_265_412.RES
Reported on Thu Sep 24, 1992 6:46:10 am
Report Formatfile: /DATA/FORMAT/CAPPID.FMT



SAMPLE NAME: DETLIMSTD 2.5-500 + 2.5 GASES
Resultfile: /CAP/RESULT/H08_265_382.RES
Plot Fields: 500 - 3000 Instrument - TRACOR540#8HALL

Sample Name: DETLIMSTD 2.5-500 + 2.5 GASES
Batch # 92265/A08 Injected on Mon Sep 21, 1992 7:49:54 pm

Instrument: TRACOR540#8HALL Employee #330
Calculation: ExternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/H08_265_382.RES
Methodfile: /CAP/METHOD/H08_265N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
1	5.79	5.76	1832	24318	PV	1.57	DICHLORODIFLUOROMETHANE
2	6.33	6.35	2292	21152	VV	3.39	CHLOROMETHANE
3	6.63	6.64	2066	28859	VV	1.18	VINYL CHLORIDE
4	7.90	7.90	274	2183	VV	.44	BROMOMETHANE
5	8.26	8.26	1725	27334	VV	1.34	CHLOROETHANE
6	8.83	8.86	1528	27618	VV	.74	TRICHLOROFLUOROMETHANE
10	10.88	#10.88	848	15218	VV	.59	1,1-DICHLOROETHENE
12	12.82	#12.82	1271	24568	PV	.23	METHYLENE CHLORIDE
13	13.65	#13.65	1572	15786	VV	.57	TRANS-1,2-DICHLOROETHENE
15	15.31	#15.31	1611	15278	VV	.57	1,1-DICHLOROETHANE
18	17.41	#17.41	1624	13623	PV	.56	CIS-1,2-DICHLOROETHENE
19	17.92	#17.92	4044	37564	VV	.65	CHLOROFORM
20	18.47	#18.47	1109	9718	VV	.47	BROMOCHLOROMETHANE
21	19.05	#19.05	1990	23097	VV	.59	1,1,1-TRICHLOROETHANE
[illegible]	19.76	#19.76	1986	20268	VV	.72	CARBON TETRACHLORIDE
[illegible]	20.70	#20.70	1669	14619	VV	.39	1,2-DICHLOROETHANE
26	22.45	#22.45	1840	15854	PV	.56	TRICHLOROETHENE
27	23.19	#23.19	1319	11294	VV	.48	1,2-DICHLOROPROPANE
28	23.98	#23.98	1373	11475	VV	.47	BROMODICHLOROMETHANE
29	25.87	#25.87	1626	13616	BV	.56	CIS-1,3-DICHLOROPROPENE
31	27.60	#27.60	940	7415	PV	.41	TRANS-1,3-DICHLOROPROPENE
32	28.01	#28.01	1790	15290	VV	.47	1,1,2-TRICHLOROETHANE
33	28.58	#28.58	2523	19977	VV	.72	TETRACHLOROETHENE
34	29.50	#29.50	835	6379	VV	.48	DIBROMOCHLOROMETHANE
35	30.18	#30.18	204	3348	VV	.59	ETHYLENE DIBROMIDE
37	31.41	#31.41	515	3963	PV	.38	CHLOROBENZENE
38	31.63	#31.63	2446	20832	VV	.51	1,1,1,2-TETRACHLOROETHANE
39	32.22	#32.22	29250	209708	VV	104.48	SURR--1CL2FBENZENE
40	34.57	#34.57	329	3761	PV	.44	BROMOFORM
41	35.36	#35.36	1282	11505	VV	.45	1,1,2,2-TETRACHLOROETHANE
42	35.83	#35.83	1145	9286	VV	.45	1,2,3-TRICHLOROPROPANE
43	36.37	#36.37	488	3334	VV	.47	O-CHLOROTOLUENE
44	36.58	#36.58	561	5515	VV	.43	P-CHLOROTOLUENE
45	39.02	#39.02	892	7311	PV	.50	M-DICHLOROBENZENE
46	39.44	#39.44	1200	10752	VV	.43	P-DICHLOROBENZENE
47	40.66	#40.66	1030	8499	VB	.46	O-DICHLOROBENZENE
51	45.56	45.58	1059	7319	VV	.36	1,2,4-TRICHLOROBENZENE
52	45.92	45.96	2038	14523	VV	.40	HEXACHLOROBUTADIENE
53	46.89	46.92	1400	9944	VV	.40	1,2,3-TRICHLOROBENZENE

[illegible]ted on Mon Sep 21, 1992 8:41:18 pm
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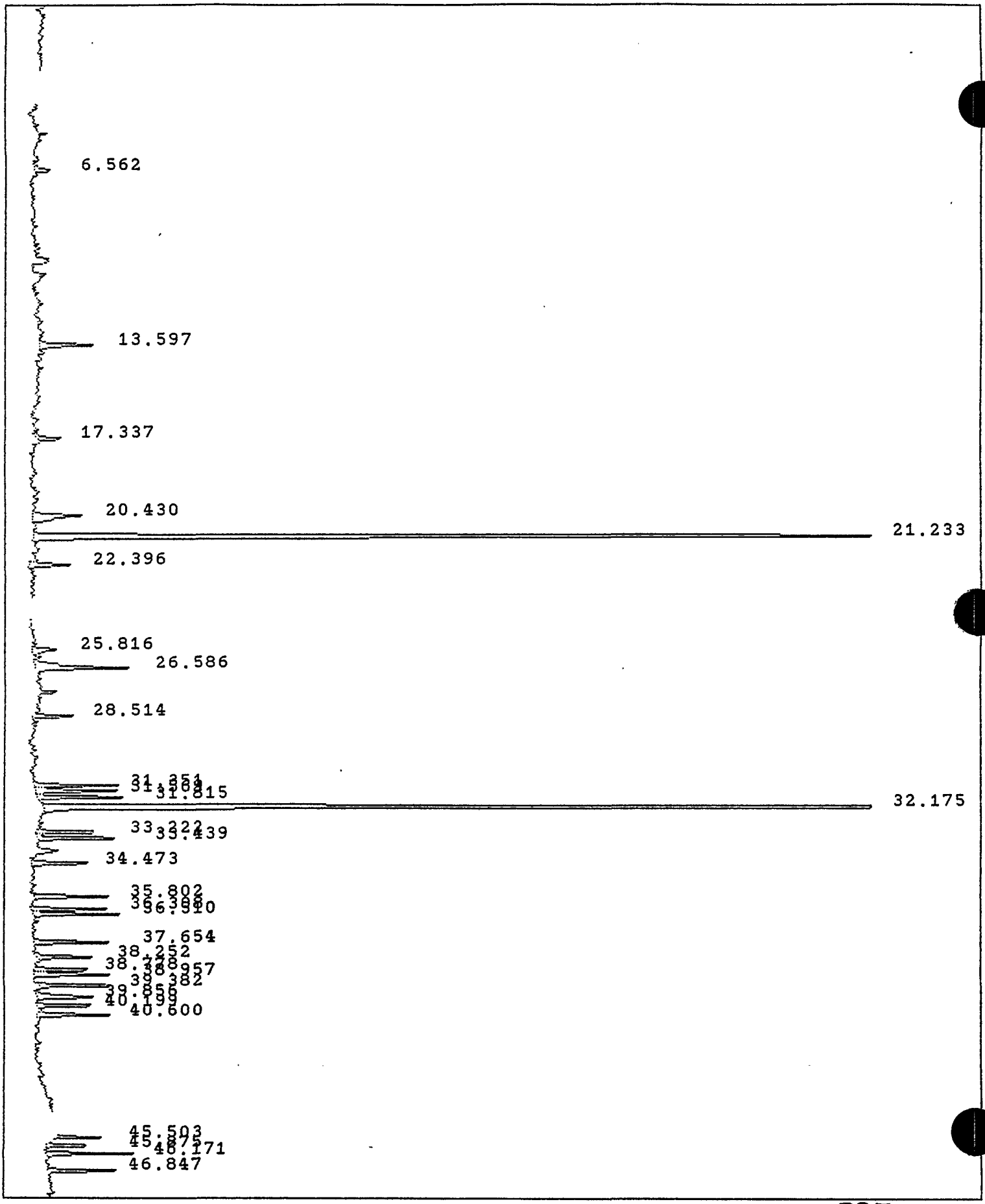

SAMPLE NAME: DETLIMSTD 2.5-500 + 2.5 GASES
Resultfile: /CAP/RESULT/P08_265_382.RES
Plot Fields: 6910 - 7310 Instrument - TRACOR540#8PID

AR303614

Sample Name: DETLIMSTD 2.5-500 + 2.5 GASES
Batch # 92265/A08 Injected on Mon Sep 21, 1992 7:49:54 pm

Instrument: TRACOR540#8PID Employee #330
Calculation: InternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/P08_265_382.RES
Methodfile: /CAP/METHOD/P08_265N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - PID Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.00
Threshold - 3.0 Minimum Area - 2.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Timed Events	Time	Event	Logic	Value	EventUpdate
1	27.500	SetPeakWidth	Event	.00	False
2	28.500	SetPeakWidth	Event	.00	False
3	30.100	SetPeakWidth	Event	.00	False

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
2	13.60	#13.64	110	790	BV	.57	TRANS-1,2-DICHLOROETHENE
3	17.34	#17.39	54	374	PV	.54	CIS-1,2-DICHLOROETHENE
4	20.43	#20.45	98	1028	PV	.51	BENZENE
5	21.23	#21.26	2279	13849	BV	107.46	SURR-FBENZENE
6	22.40	#22.41	78	595	VV	.54	TRICHLOROETHENE
7	25.82	#25.81	50	451	VV	.83	CIS-1,3-DICHLOROPROPENE
8	26.59	#26.58	188	1595	VV	.64	TOLUENE
9	28.51	#28.52	81	436	BV	.62	TETRACHLOROETHENE
10	31.35	#31.35	176	1043	BV	.59	CHLOROBENZENE
11	31.57	#31.57	166	988	VV	.62	ETHYLBENZENE
[illegible]	31.81	#31.82	181	1070	PB	.61	M-XYLENE
[illegible]	32.18	#32.18	4637	23617	BV		ISTD-1CL2FBENZENE
14	33.22	#33.23	142	780	BV	.58	O-XYLENE
15	33.44	#33.44	189	973	PB	.60	STYRENE
16	34.47	#34.48	125	767	BV	.62	CUMENE
17	35.80	#35.82	146	842	BV	.57	N-PROPYLBENZENE
18	36.31	#36.33	157	877	BV	.60	O-CHLOROTOLUENE
19	36.51	#36.52	177	1024	VB	.62	P-CHLOROTOLUENE
20	37.65	#37.67	157	837	BB	.63	1,2,4-TRIMETHYLBENZENE
21	38.25	#38.27	119	730	BV	.64	SEC-BUTYLBENZENE
22	38.78	#38.80	128	696	BV	.65	P-ISOPROPYLTOLUENE
23	38.96	#38.98	157	949	VV	.64	M-DICHLOROBENZENE
24	39.38	#39.40	179	925	BV	.70	P-DICHLOROBENZENE
26	40.20	#40.22	135	753	PV	.66	N-BUTYLBENZENE
27	40.60	#40.62	147	853	BB	.66	O-DICHLOROBENZENE
28	45.50	45.53	121	512	BB	.57	1,2,4-TRICHLOROBENZENE
29	45.88	45.90	109	510	BB	.66	HEXACHLOROBUTADIENE
30	46.17	46.20	188	885	BB	.72	NAPHTHALENE
31	46.85	46.87	163	751	BV	.77	1,2,3-TRICHLOROBENZENE

Internal Standard Range: 4817 - 7225 (Midpoint - 6021)
*** istd height too low ***
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Reported on Mon Sep 21, 1992 8:43:34 pm
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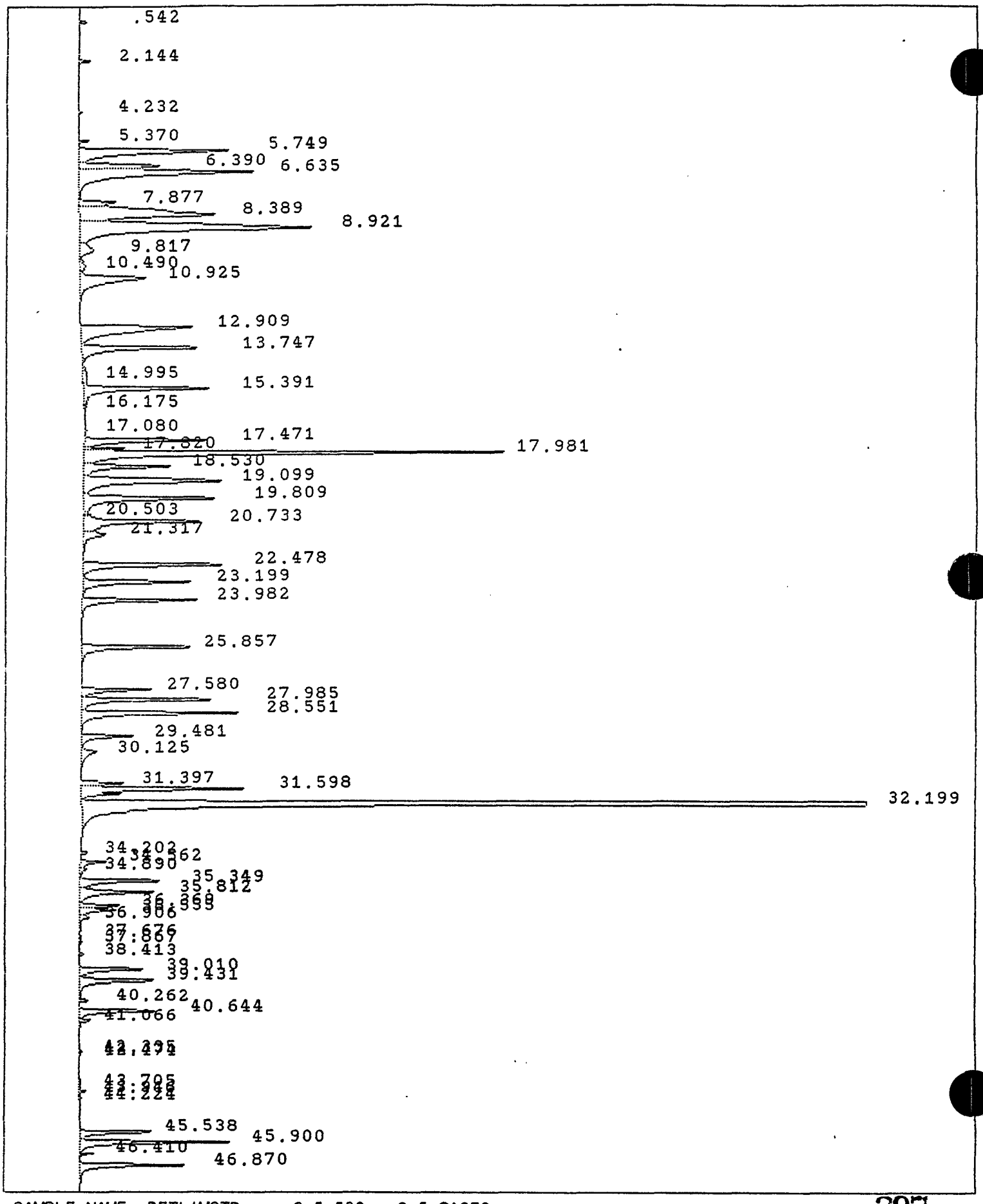

SAMPLE NAME: DETLIMSTD 2.5-500 + 2.5 GASES
Resultfile: /CAP/RESULT/H08_265_397.RES

AR303616

Sample Name: DETLIMSTD 2.5-500 + 2.5 GASES
Batch # 92265/A08 Injected on Tue Sep 22, 1992 8:46:32 pm

Instrument: TRACOR540#8HALL Employee #330
Calculation: ExternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/H08_265_397.RES
Methodfile: /CAP/METHOD/H08_265N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
5	5.75	5.78	1851	24139	VV	1.59	DICHLORODIFLUOROMETHANE
6	6.39	6.41	1038	9649	VV	1.53	CHLOROMETHANE
7	6.63	6.67	2147	31491	VV	1.22	VINYL CHLORIDE
8	7.88	7.95	441	4541	VV	.71	BROMOMETHANE
9	8.39	8.31	1593	32945	VV	1.23	CHLOROETHANE
10	8.92	8.89	2734	51011	VV	1.32	TRICHLOROFLUOROMETHANE
13	10.93	#10.93	786	14371	VV	.56	1,1-DICHLOROETHENE
14	12.91	#12.91	1340	22473	BV	.24	METHYLENE CHLORIDE
15	13.75	#13.75	1605	15254	VV	.59	TRANS-1,2-DICHLOROETHENE
17	15.39	#15.39	1705	16188	VV	.60	1,1-DICHLOROETHANE
20	17.47	#17.47	1573	13245	VV	.54	CIS-1,2-DICHLOROETHENE
22	17.98	#17.98	5210	46523	VV	.94	CHLOROFORM
23	18.53	#18.53	1083	9598	VV	.46	BROMOCHLOROMETHANE
24	19.10	#19.10	1679	22881	VV	.49	1,1,1-TRICHLOROETHANE
[illegible]	19.81	#19.81	1771	18465	VV	.66	CARBON TETRACHLORIDE
27	20.73	#20.73	1480	17107	VV	.35	1,2-DICHLOROETHANE
29	22.48	#22.48	1829	16461	PV	.55	TRICHLOROETHENE
30	23.20	#23.20	1378	12421	VV	.50	1,2-DICHLOROPROPANE
31	23.98	#23.98	1542	11702	VV	.53	BROMODICHLOROMETHANE
32	25.86	#25.86	1459	13059	PV	.50	CIS-1,3-DICHLOROPROPENE
33	27.58	#27.58	918	7067	PV	.40	TRANS-1,3-DICHLOROPROPENE
34	27.98	#27.98	1885	15313	VV	.49	1,1,2-TRICHLOROETHANE
35	28.55	#28.55	1907	17257	VV	.55	TETRACHLOROETHENE
36	29.48	#29.48	648	5663	VV	.37	DIBROMOCHLOROMETHANE
37	30.13	#30.13	184	3174	VV	.56	ETHYLENE DIBROMIDE
38	31.40	#31.40	540	3331	PV	.40	CHLOROBENZENE
39	31.60	#31.60	2054	19631	VV	.43	1,1,1,2-TETRACHLOROETHANE
40	32.20	#32.20	23568	185644	VV	84.18	SURR-1CL2FBENZENE
42	34.56	#34.56	340	2731	PV	.45	BROMOFORM
44	35.35	#35.35	1096	9214	VV	.39	1,1,2,2-TETRACHLOROETHANE
45	35.81	#35.81	923	8386	VV	.36	1,2,3-TRICHLOROPROPANE
46	36.37	#36.37	529	3590	VV	.51	O-CHLOROTOLUENE
47	36.55	#36.55	484	4458	VV	.37	P-CHLOROTOLUENE
52	39.01	#39.01	856	6839	PV	.48	M-DICHLOROBENZENE
53	39.43	#39.43	1042	9029	VV	.37	P-DICHLOROBENZENE
55	40.64	#40.64	1046	8054	VV	.47	O-DICHLOROBENZENE
62	45.54	45.54	1034	7304	VV	.36	1,2,4-TRICHLOROBENZENE
63	45.90	45.90	1873	13466	VV	.37	HEXACHLOROBUTADIENE
65	46.87	46.87	1393	9676	PV	.40	1,2,3-TRICHLOROBENZENE

[illegible]rted on Tue Sep 22, 1992 9:39:07 pm
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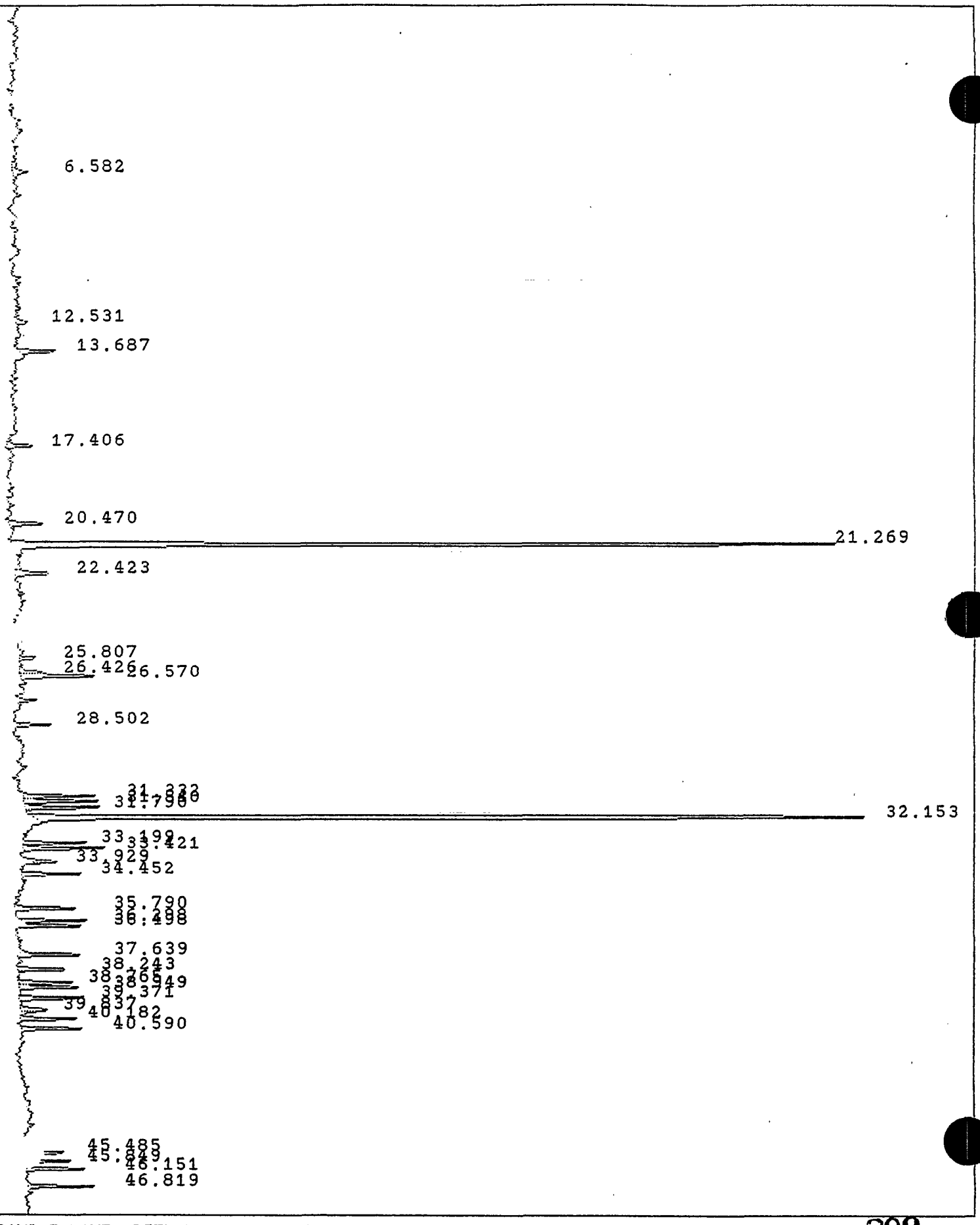

SAMPLE NAME: DETLIMSTD 2.5-500 + 2.5 GASES

Resultfile: /CAP/RESULT/P08_265_397.RES

Plot Fields: 6910 - 7310 Instrument - TRACOR540#8PID

AR303618

Sample Name: DETLIMSTD 2.5-500 + 2.5 GASES
Batch # 92265/A08 Injected on Tue Sep 22, 1992 8:46:32 pm

Instrument: TRACOR540#8PID Employee #330
Calculation: InternalSTD Quantitation: HeightUnits
tfile: /CAP/RESULT/P08_265_397.RES
nodfile: /CAP/METHOD/P08_265N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - PID Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.00
Threshold - 3.0 Minimum Area - 2.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Timed Events	Time	Event	Logic	Value	EventUpdate
1	27.500	SetPeakWidth	Event	.00	False
2	28.500	SetPeakWidth	Event	.00	False
3	30.100	SetPeakWidth	Event	.00	False

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
1	6.58	6.63	32	389	PV	1.90	VINYL CHLORIDE
3	13.69	#13.75	80	563	BV	.49	TRANS-1,2-DICHLOROETHENE
4	17.41	#17.47	56	388	PV	.66	CIS-1,2-DICHLOROETHENE
5	20.47	#20.50	73	539	PV	.44	BENZENE
6	21.27	#21.30	1849	11386	BV	101.66	SURR-FBENZENE
7	22.42	#22.45	77	544	VV	.62	TRICHLOROETHENE
8	25.81	#25.81	39	216	BB	.76	CIS-1,3-DICHLOROPROPENE
10	26.57	#26.59	160	1106	VV	.64	TOLUENE
11	28.50	#28.52	63	336	BB	.57	TETRACHLOROETHENE
12	31.33	#31.34	150	823	BV	.59	CHLOROBENZENE
[illegible]	31.54	#31.55	155	946	VV	.67	ETHYLBENZENE
[illegible]	31.79	#31.80	160	921	PB	.62	M-XYLENE
15	32.15	#32.17	3977	20431	BV		ISTD-1CL2FBENZENE
16	33.20	#33.21	130	673	BV	.62	O-XYLENE
17	33.42	#33.42	168	917	PB	.62	STYRENE
19	34.45	#34.46	124	663	BB	.71	CUMENE
20	35.79	#35.79	134	758	BB	.61	N-PROPYLBENZENE
21	36.30	#36.30	134	672	BB	.60	O-CHLOROTOLUENE
22	36.50	#36.50	128	700	BB	.54	P-CHLOROTOLUENE
23	37.64	#37.64	144	775	BB	.66	1,2,4-TRIMETHYLBENZENE
24	38.24	#38.24	112	662	BB	.70	SEC-BUTYLBENZENE
25	38.77	#38.76	114	645	BV	.67	P-ISOPROPYLTOLUENE
26	38.95	#38.94	146	830	VB	.69	M-DICHLOROBENZENE
27	39.37	#39.36	140	808	BV	.65	P-DICHLOROBENZENE
29	40.18	#40.17	126	671	BB	.72	N-BUTYLBENZENE
30	40.59	#40.58	141	803	BB	.74	O-DICHLOROBENZENE
31	45.49	45.53	110	504	BV	.61	1,2,4-TRICHLOROBENZENE
32	45.85	45.90	89	370	BB	.63	HEXACHLOROBUTADIENE
33	46.15	46.20	146	652	BB	.66	NAPHTHALENE

Internal Standard Range: 3742 - 5613 (Midpoint - 4677)

Using check standard file. /CAP/RESULT/P08_265_381.RES
Reported on Tue Sep 22, 1992 9:44:09 pm
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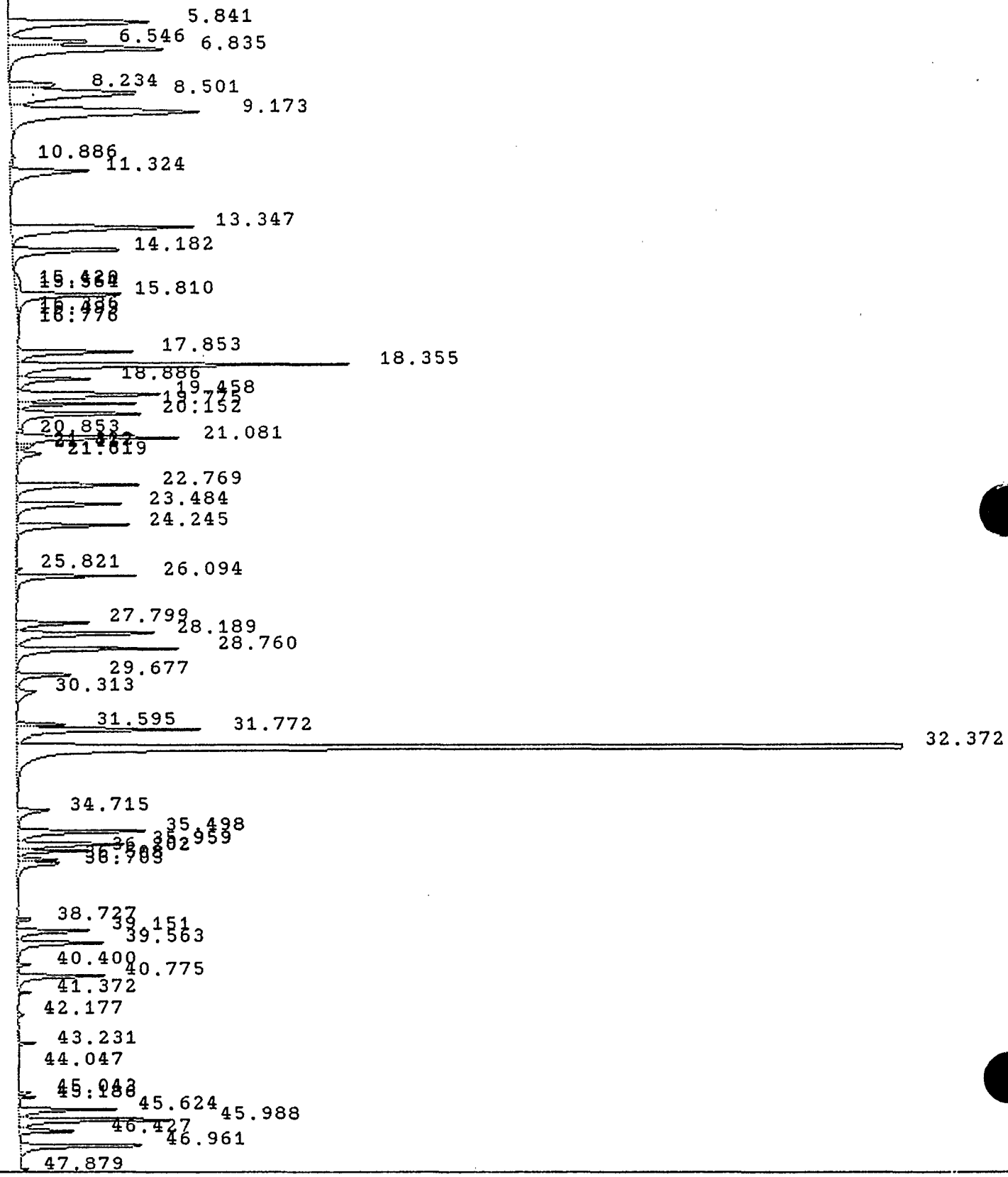


SAMPLE NAME: DETLIMSTD 2.5-500 + 2.5
Resultfile: /CAP/RESULT/H08_265_404.RES
Plot Fields: 500 - 3000 Instrument - TRACOR540#8HALL

Sample Name: DETLIMSTD 2.5-500 + 2.5
Batch # 92265/A08 Injected on Wed Sep 23, 1992 9:19:47 am

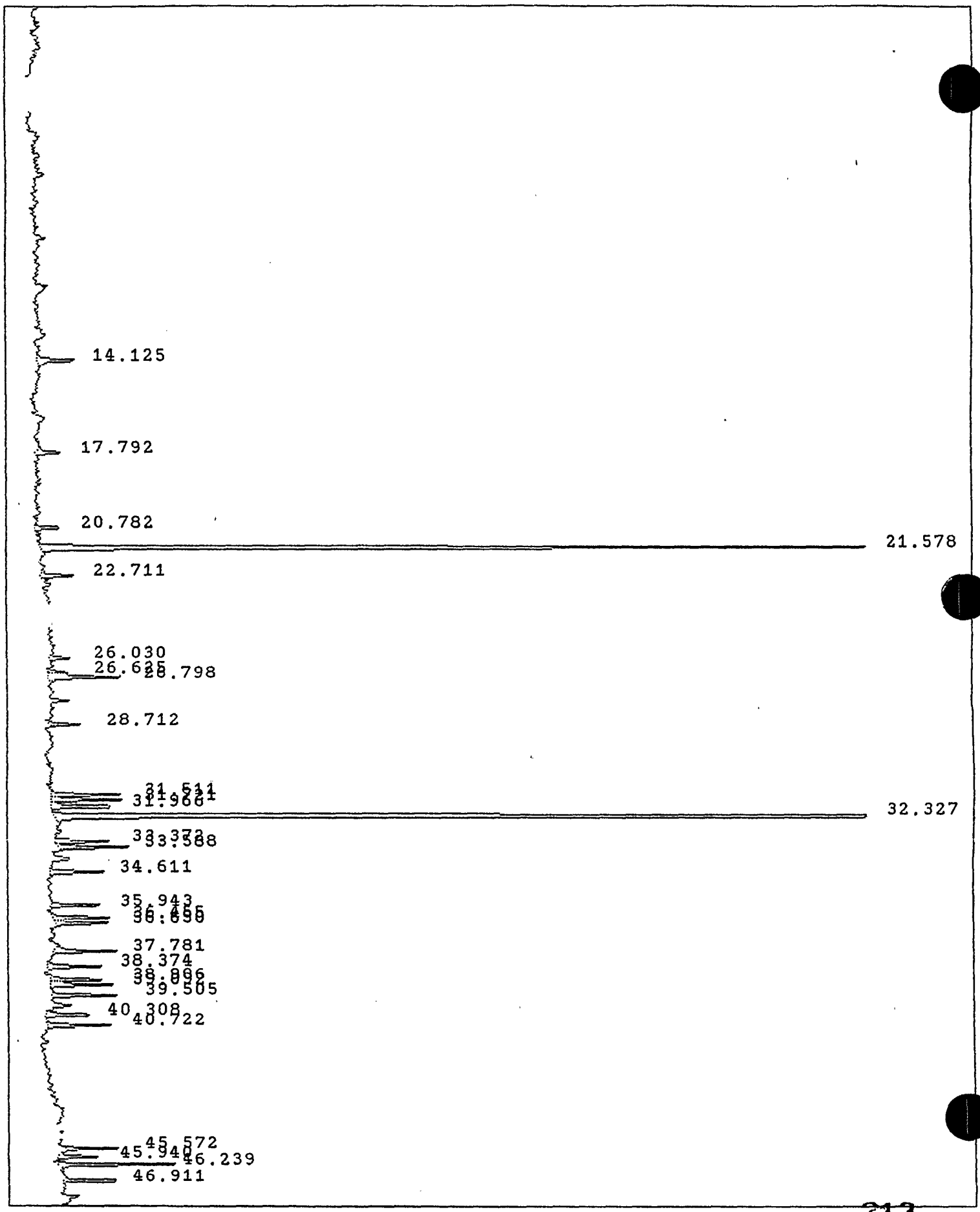
Instrument: TRACOR540#8HALL Employee #439
Calculation: ExternalSTD Quantitation: HeightUnits
'tfile: /CAP/RESULT/H08_265_404.RES
thodfile: /CAP/METHOD/CH08_265N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Re-analyze pick up CAP
JEW 439 9-23-92

Integration Parameters: Run Time - 48.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
1	5.84	5.87	1553	20622	VV	1.33	DICHLORODIFLUOROMETHANE
2	6.55	6.55	912	9665	VV	1.35	CHLOROMETHANE
3	6.83	6.82	1735	25927	VV	.99	VINYL CHLORIDE
4	8.23	8.24	510	5814	PV	.82	BROMOMETHANE
5	8.50	8.53	1397	25373	VV	1.08	CHLOROETHANE
6	9.17	9.21	2039	38279	VV	.98	TRICHLOROFLUOROMETHANE
8	11.32	#11.32	875	11664	VV	.61	1,1-DICHLOROETHENE
9	13.35	#13.35	2034	23819	BV	.37	METHYLENE CHLORIDE
10	14.18	#14.18	1342	12885	VV	.50	TRANS-1,2-DICHLOROETHENE
13	15.81	#15.81	1230	12459	VV	.44	1,1-DICHLOROETHANE
17	17.85	#17.85	1260	10830	BV	.42	CIS-1,2-DICHLOROETHENE
18	18.35	#18.35	3737	31684	VV	.56	CHLOROFORM
19	18.89	#18.89	854	7631	VV	.36	BROMOCHLOROMETHANE
[illegible]	19.46	#19.46	1558	16686	VV	.45	1,1,1-TRICHLOROETHANE
[illegible]	20.15	#20.15	1355	15226	VV	.55	CARBON TETRACHLORIDE
[illegible]	21.08	#21.08	2001	14690	VV	.47	1,2-DICHLOROETHANE
28	22.77	#22.77	1360	12247	VV	.43	TRICHLOROETHENE
29	23.48	#23.48	1196	10616	VV	.44	1,2-DICHLOROPROPANE
30	24.25	#24.25	1270	10995	VV	.43	BROMODICHLOROMETHANE
32	26.09	#26.09	1352	11331	VV	.46	CIS-1,3-DICHLOROPROPENE
33	27.80	#27.80	855	6456	PV	.37	TRANS-1,3-DICHLOROPROPENE
34	28.19	#28.19	1668	14453	VV	.44	1,1,2-TRICHLOROETHANE
35	28.76	#28.76	1920	16096	VV	.56	TETRACHLOROETHENE
36	29.68	#29.68	739	5753	VV	.43	DIBROMOCHLOROMETHANE
37	30.31	#30.31	220	3213	VV	.61	ETHYLENE DIBROMIDE
38	31.60	#31.60	652	3654	VV	.48	CHLOROBENZENE
39	31.77	#31.77	2045	17800	VV	.43	1,1,1,2-TETRACHLOROETHANE
40	32.37	#32.37	23396	176517	VV	83.57	SURR-1CL2FBENZENE
41	34.72	#34.72	368	4181	PV	.49	BROMOFORM
42	35.50	#35.50	1448	12606	VV	.51	1,1,2,2-TETRACHLOROETHANE
43	35.96	#35.96	1238	10088	VV	.48	1,2,3-TRICHLOROPROPANE
44	36.20	#36.20	976	4109	VV	.94	O-CHLOROTOLUENE
46	36.70	#36.70	505	5375	VV	.39	P-CHLOROTOLUENE
48	39.15	#39.15	859	6480	VV	.48	M-DICHLOROBENZENE
49	39.56	#39.56	957	8773	VV	.34	P-DICHLOROBENZENE
51	40.77	#40.77	984	8140	VV	.44	O-DICHLOROBENZENE
58	45.62	45.54	1126	7765	VV	.39	1,2,4-TRICHLOROBENZENE
59	45.99	45.92	1926	13577	VV	.38	HEXACHLOROBUTADIENE
61	46.96	46.88	1630	11752	VV	.47	1,2,3-TRICHLOROBENZENE

[illegible] ted on Wed Sep 23, 1992 10:23:43 am
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT



SAMPLE NAME: DETLIMSTD 2.5-500 + 2.5
Resultfile: /CAP/RESULT/P08_265_404.RES
Plot Fields: 6910 - 7310 Instrument - TRACOR540#8D1D

AR303622

Sample Name: DETLIMSTD 2.5-500 + 2.5
Batch # 92265/A08 Injected on Wed Sep 23, 1992 9:19:47 am

Instrument: TRACOR540#8PID Employee #439
Calculation: InternalSTD Quantitation: HeightUnits

Re. an
JRB 439
9-23-92

Resultfile: /CAP/RESULT/P08_265_404.RES
Methodfile: /CAP/METHOD/P08_265NS.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - PID Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

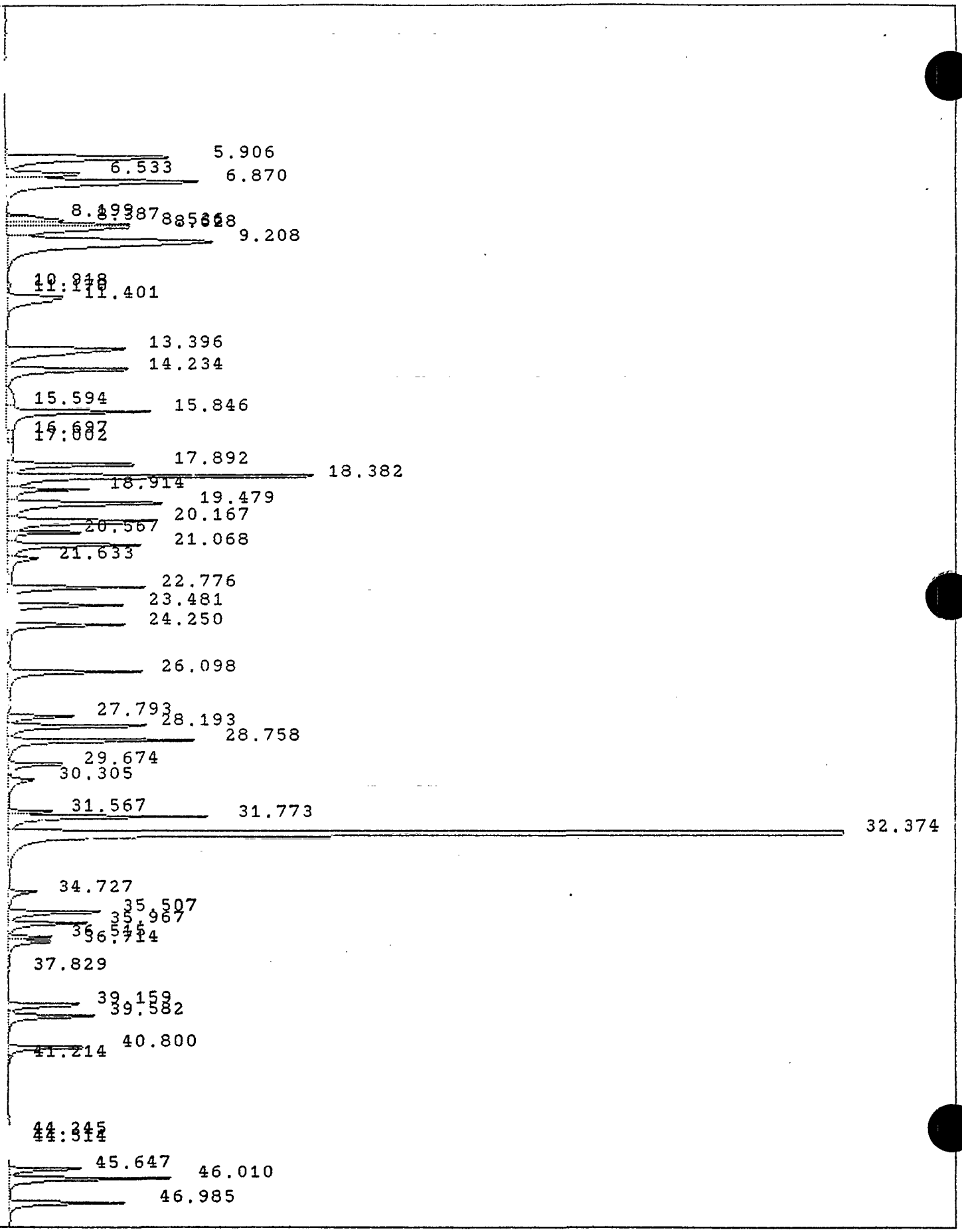
Integration Parameters: Run Time - 48.00
Threshold - 3.0 Minimum Area - 2.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Timed Events	Time	Event	Logic	Value	EventUpdate
1	27.500	SetPeakWidth	Event	.00	False
2	28.500	SetPeakWidth	Event	.00	False
3	30.100	SetPeakWidth	Event	.00	False

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
1	14.13	#14.09	83	684	BB	.50	TRANS-1,2-DICHLOROETHENE
2	17.79	#17.76	49	353	BV	.57	CIS-1,2-DICHLOROETHENE
3	20.78	#20.74	59	344	BV	.36	BENZENE
4	21.58	#21.53	2211	13314	PV	99.98	SURR-FBENZENE
5	22.71	#22.66	64	423	BV	.52	TRICHLOROETHENE
6	26.03	#25.97	43	234	PV	.83	CIS-1,3-DICHLOROPROPENE
8	26.80	#26.74	150	1066	VV	.60	TOLUENE
9	28.71	#28.65	65	396	BB	.59	TETRACHLOROETHENE
10	31.51	#31.44	143	833	BV	.56	CHLOROBENZENE
11	31.72	#31.66	143	855	VV	.62	ETHYLBENZENE
	31.97	#31.90	150	840	VB	.59	M-XYLENE
	32.33	#32.27	3973	20372	BV		ISTD-1CL2FBENZENE
15	33.59	#33.52	148	801	PB	.56	STYRENE
16	34.61	#34.55	107	646	BB	.62	CUMENE
17	35.94	#35.88	127	712	BB	.58	N-PROPYLBENZENE
18	36.46	#36.38	123	684	BV	.56	O-CHLOROTOLUENE
19	36.65	#36.58	120	655	PB	.51	P-CHLOROTOLUENE
20	37.78	#37.72	134	790	BB	.63	1,2,4-TRIMETHYLBENZENE
21	38.37	#38.32	113	687	BB	.70	SEC-BUTYLBENZENE
22	38.91	#38.84	114	650	BV	.67	P-ISOPROPYLTOLUENE
23	39.09	#39.02	128	679	VB	.62	M-DICHLOROBENZENE
24	39.51	#39.44	142	766	BB	.66	P-DICHLOROBENZENE
25	40.31	#40.26	104	636	BV	.60	N-BUTYLBENZENE
26	40.72	#40.66	132	727	BB	.70	O-DICHLOROBENZENE
27	45.57	45.53	120	477	BB	.65	1,2,4-TRICHLOROBENZENE
28	45.94	45.90	87	438	BV	.61	HEXACHLOROBUTADIENE
29	46.24	46.20	278	1286	BB	1.13	NAPHTHALENE
30	46.91	46.87	158	673	BV	.86	1,2,3-TRICHLOROBENZENE

Internal Standard Range: 3742 - 5613 (Midpoint - 4677)

Using check standard file. /CAP/RESULT/P08_265_381.RES
Reported on Wed Sep 23, 1992 2:47:47 pm
Report Formatfile: /DATA/FORMAT/CAPPID.FMT



SAMPLE NAME: DETLIMSTD 2.5-500 + 2.5
Resultfile: /CAP/RESULT/H08_265_421.RES

AR303624

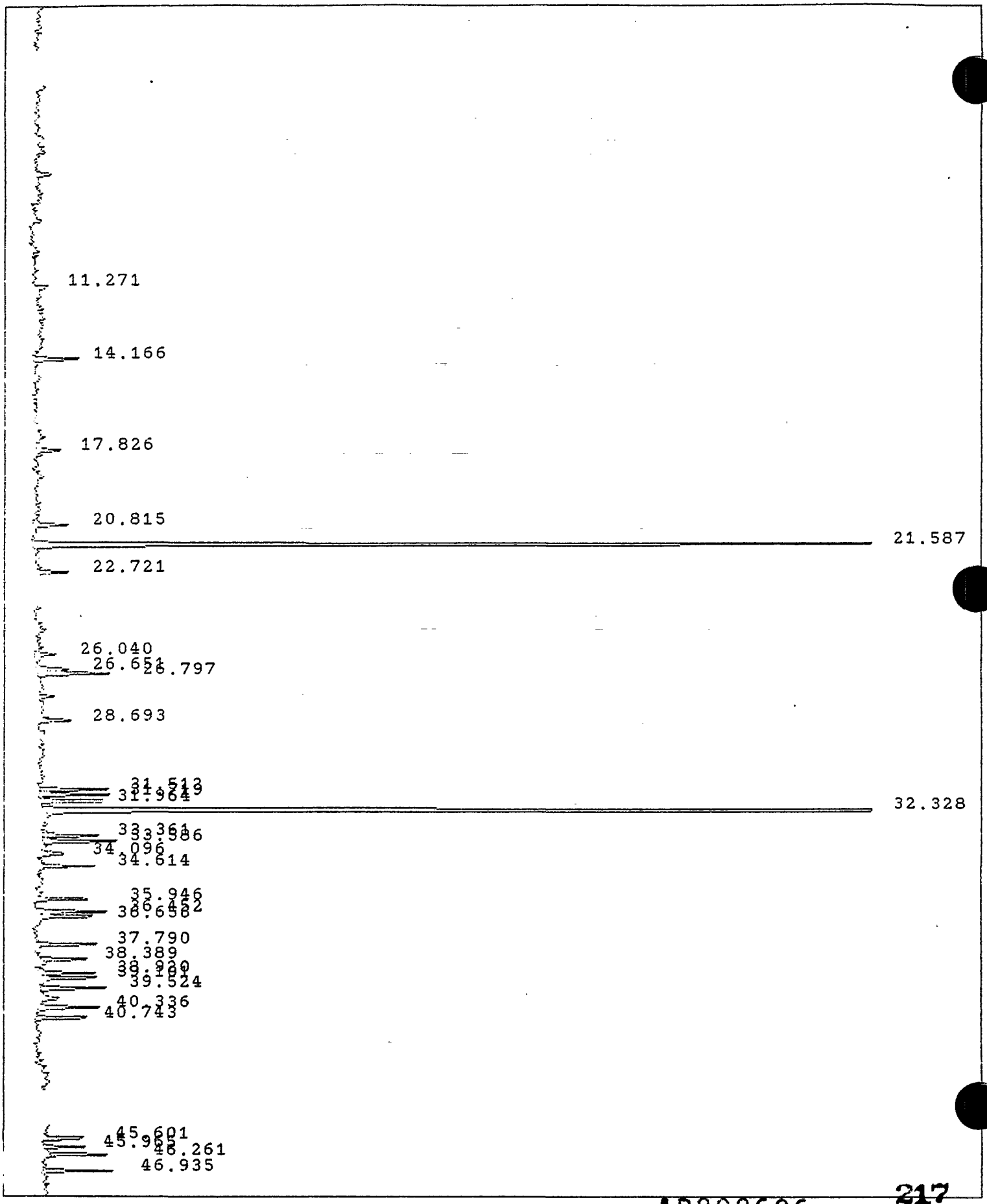
Sample Name: DETLIMSTD 2.5-500 + 2.5
Batch # 92265/A08 Injected on Thu Sep 24, 1992 8:57:28 am

Instrument: TRACOR540#8HALL Employee #439
Calculation: ExternalSTD Quantitation: HeightUnits
tfile: /CAP/RESULT/H08_265_421.RES
nodfile: /CAP/METHOD/H08_265N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
1	5.91	5.96	1928	26747	PV	1.65	DICHLORODIFLUOROMETHANE
3	6.87	6.94	2330	33554	VV	1.33	VINYL CHLORIDE
4	8.20	8.23	330	1632	BV	.53	BROMOMETHANE
7	8.63	8.62	1516	19211	VV	1.17	CHLOROETHANE
8	9.21	9.29	2390	53134	VV	1.15	TRICHLOROFLUOROMETHANE
11	11.40	#11.40	719	13579	VV	.52	1,1-DICHLOROETHENE
12	13.40	#13.40	1372	24096	BV	.25	METHYLENE CHLORIDE
13	14.23	#14.23	1561	17114	VV	.57	TRANS-1,2-DICHLOROETHENE
15	15.85	#15.85	1706	19663	VV	.60	1,1-DICHLOROETHANE
18	17.89	#17.89	1721	15707	VV	.59	CIS-1,2-DICHLOROETHENE
19	18.38	#18.38	4009	37314	VV	.64	CHLOROFORM
20	18.91	#18.91	1035	10029	VV	.44	BROMOCHLOROMETHANE
21	19.48	#19.48	1880	23229	VV	.55	1,1,1-TRICHLOROETHANE
22	20.17	#20.17	1770	19466	VV	.66	CARBON TETRACHLORIDE
[illegible]	21.07	#21.07	1692	15661	VV	.40	1,2-DICHLOROETHANE
[illegible]	22.78	#22.78	1673	15509	VV	.52	TRICHLOROETHENE
27	23.48	#23.48	1408	13420	VV	.51	1,2-DICHLOROPROPANE
28	24.25	#24.25	1426	13478	VV	.49	BROMODICHLOROMETHANE
29	26.10	#26.10	1634	14860	VV	.56	CIS-1,3-DICHLOROPROPENE
30	27.79	#27.79	803	6977	VV	.35	TRANS-1,3-DICHLOROPROPENE
31	28.19	#28.19	1720	15863	VV	.45	1,1,2-TRICHLOROETHANE
32	28.76	#28.76	2249	21266	VV	.64	TETRACHLOROETHENE
33	29.67	#29.67	828	6968	VV	.48	DIBROMOCHLOROMETHANE
34	30.31	#30.31	305	4695	VV	.73	ETHYLENE DIBROMIDE
35	31.57	#31.57	530	3755	VV	.39	CHLOROBENZENE
36	31.77	#31.77	2400	21046	VV	.50	1,1,1,2-TETRACHLOROETHANE
37	32.37	#32.37	23407	180358	VV	83.61	SURR-1CL2FBENZENE
38	34.73	#34.73	323	3881	VV	.43	BROMOFORM
39	35.51	#35.51	1219	10684	VV	.43	1,1,2,2-TETRACHLOROETHANE
40	35.97	#35.97	946	8820	VV	.37	1,2,3-TRICHLOROPROPANE
41	36.52	#36.52	556	3592	VV	.54	O-CHLOROTOLUENE
42	36.71	#36.71	582	5926	VV	.45	P-CHLOROTOLUENE
44	39.16	#39.16	922	7388	PV	.53	M-DICHLOROBENZENE
45	39.58	#39.58	1052	9962	VV	.37	P-DICHLOROBENZENE
46	40.80	#40.80	1072	8447	VV	.48	O-DICHLOROBENZENE
51	46.01	45.92	1961	14595	VV	.39	HEXACHLOROBUTADIENE

Reported on Thu Sep 24, 1992 9:56:18 am
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT



SAMPLE NAME: DETLIMSTD 2.5-500 + 2.5

Resultfile: /CAP/RESULT/P08_265_421.RES

Plot Fields: 6910 - 7310 Instrument - TRACOR540#8PID

AR303626

Sample Name: DETLIMSTD 2.5-500 + 2.5
Batch # 92265/A08 Injected on Thu Sep 24, 1992 8:57:28 am

Instrument: TRACOR540#8PID Employee #439
Calculation: InternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/P08_265_421.RES
Methodfile: /CAP/METHOD/P08_265NSSI.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - PID Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.00
Threshold - 3.0 Minimum Area - 2.000E+02
Peak Width - .10000 Dilution Factor - 1.00

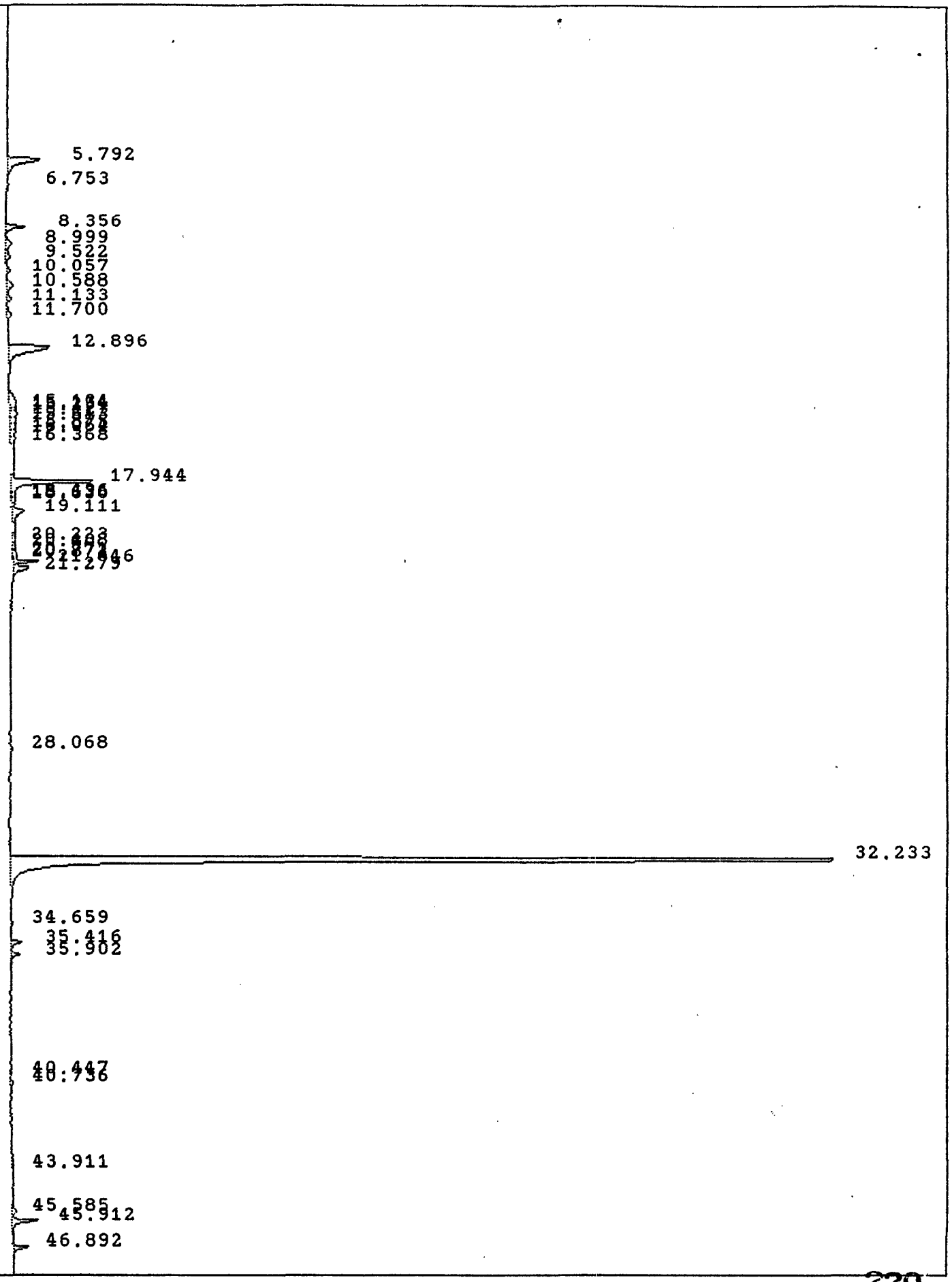
Timed Events	Time	Event	Logic	Value	EventUpdate
1	27.500	SetPeakWidth	Event	.00	False
2	28.500	SetPeakWidth	Event	.00	False
3	30.100	SetPeakWidth	Event	.00	False

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
1	11.27	11.33	31	207	BV	.99	1,1-DICHLOROETHENE
2	14.17	#14.21	87	612	PV	.57	TRANS-1,2-DICHLOROETHENE
3	17.83	#17.87	56	420	PV	.72	CIS-1,2-DICHLOROETHENE
4	20.81	#20.84	68	503	PV	.45	BENZENE
5	21.59	#21.62	2148	12973	PV	106.51	SURR--FBENZENE
6	22.72	#22.75	62	359	PV	.55	TRICHLOROETHENE
7	26.04	#26.05	45	376	PV	.93	CIS-1,3-DICHLOROPROPENE
9	26.80	#26.81	150	1060	VV	.65	TOLUENE
10	28.69	#28.71	55	279	BB	.54	TETRACHLOROETHENE
11	31.51	#31.50	139	822	BV	.59	CHLOROBENZENE
12	31.72	#31.71	148	819	VV	.70	ETHYLBENZENE
[illegible]	31.96	#31.96	156	884	PB	.66	M-XYLENE
[illegible]	32.33	#32.32	3654	18994	BB		ISTD--1CL2FBENZENE
15	33.36	#33.35	116	655	BV	.60	O-XYLENE
16	33.59	#33.57	166	880	PB	.66	STYRENE
18	34.61	#34.59	108	599	BB	.67	CUMENE
19	35.95	#35.92	127	730	BB	.62	N-PROPYLBENZENE
20	36.45	#36.43	136	751	BV	.66	O-CHLOROTOLUENE
21	36.66	#36.62	129	714	VB	.59	P-CHLOROTOLUENE
22	37.79	#37.76	139	738	BV	.69	1,2,4-TRIMETHYLBENZENE
23	38.39	#38.36	103	588	BV	.70	SEC-BUTYLBENZENE
24	38.92	#38.88	117	727	BV	.74	P-ISOPROPYLTOLUENE
25	39.10	#39.06	127	644	VB	.66	M-DICHLOROBENZENE
26	39.52	#39.48	136	774	BB	.68	P-DICHLOROBENZENE
27	40.34	#40.30	119	749	BB	.73	N-BUTYLBENZENE
28	40.74	#40.70	126	670	BB	.72	O-DICHLOROBENZENE
29	45.60	45.53	91	400	BB	.55	1,2,4-TRICHLOROBENZENE
30	45.96	45.90	91	438	BV	.70	HEXACHLOROBUTADIENE
31	46.26	46.20	149	631	BB	.72	NAPHTHALENE
32	46.93	46.87	149	725	BB	.88	1,2,3-TRICHLOROBENZENE

Internal Standard Range: 3107 - 4660 (Midpoint - 3884)

Using check standard file. /CAP/RESULT/P08_265_412.RES
Reported on Thu Sep 24, 1992 9:48:14 am
Report Formatfile: /DATA/FORMAT/CAPPID.FMT

RAW QC DATA



SAMPLE NAME: BLANK

Resultfile: /CAP/RESULT/H08_265_378.RES

Plot Fields: 500 - 3000 Instrument - TRACOR540#8HALL

AR303629

Sample Name: BLANK
Batch # 92265/A08 Injected on Mon Sep 21, 1992 12:33:32 pm

Instrument: TRACOR540#8HALL Employee #439
Calculation: ExternalSTD Quantitation: HeightUnits

Re-an: upd. RT's for $CHCl_3$ + CH_2

Res''tfile: /CAP/RESULT/H08_265_378.RES
Met Jfile: /CAP/METHOD/CH08_265N.MTH

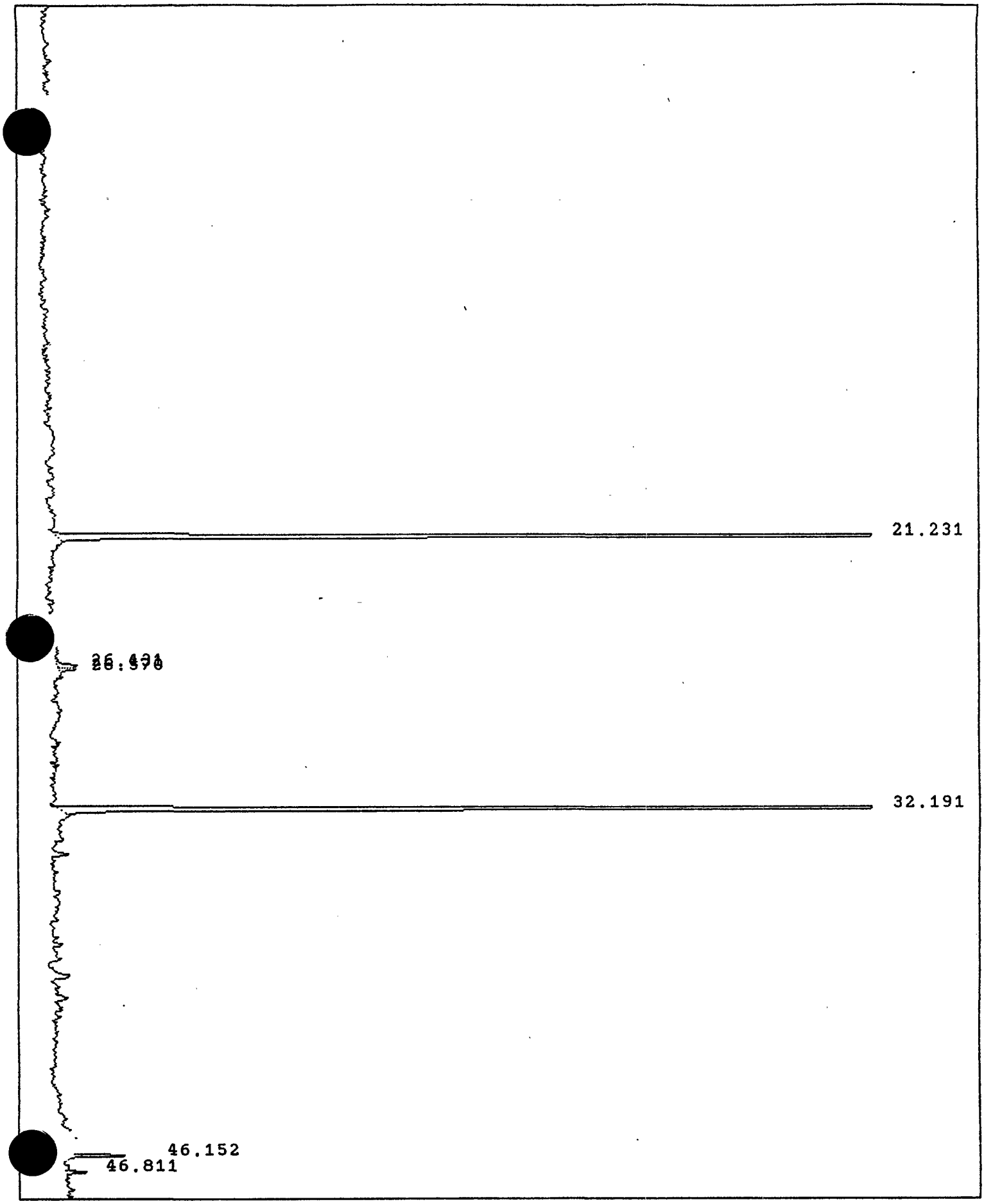
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

KLB 439
9-23-92

Integration Parameters: Run Time - 48.02
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
1	5.79	5.78	361	5031	BV	.31	DICHLORODIFLUOROMETHANE
2	6.75	6.69	20	165	PB	.01	VINYL CHLORIDE
3	8.36	8.27	244	1688	BV	.19	CHLOROETHANE
10	12.90	#12.88	454	7865	BV	.08	METHYLENE CHLORIDE
15	15.88	#15.81	77	820	VV	.03	1,1-DICHLOROETHANE
18	17.94	#17.97	1016	10573	VV	.14	CHLOROFORM
22	20.22	#20.15	38	559	VV	.02	CARBON TETRACHLORIDE
26	21.05	#21.08	401	1724	VV	.09	1,2-DICHLOROETHANE
28	28.07	#28.19	32	334	BV	.01	1,1,2-TRICHLOROETHANE
29	32.23	#32.37	25720	184899	PV	91.87	SURR-1CL2FBENZENE
30	34.66	#34.72	20	262	PV	.03	BROMOFORM
31	35.42	#35.50	115	1107	BV	.04	1,1,2,2-TETRACHLOROETHANE
32	35.90	#35.96	110	1043	VB	.04	1,2,3-TRICHLOROPROPANE
34	40.74	#40.77	37	406	PV	.02	O-DICHLOROBENZENE
36	45.59	45.54	48	534	PV	.02	1,2,4-TRICHLOROBENZENE
37	5.91	45.92	319	2443	VV	.06	HEXACHLOROBUTADIENE
38	46.89	46.88	182	1545	PV	.05	1,2,3-TRICHLOROBENZENE

Reported on Wed Sep 23, 1992 1:23:06 pm
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT



SAMPLE NAME: BLANK
Resultfile: /CAP/RESULT/P08_265_378.RES
Plot Fields: 6910 - 7310 Instrument - TRACOR540#8PID

AR303631

Sample Name: BLANK
Batch # 92265/A08 Injected on Mon Sep 21, 1992 12:33:32 pm

Instrument: TRACOR540#8PID Employee #439
Calculation: InternalSTD Quantitation: HeightUnits
Re- ltfile: /CAP/RESULT/P08_265_378.RES
Me dfile: /CAP/METHOD/P08_265N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - PID Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

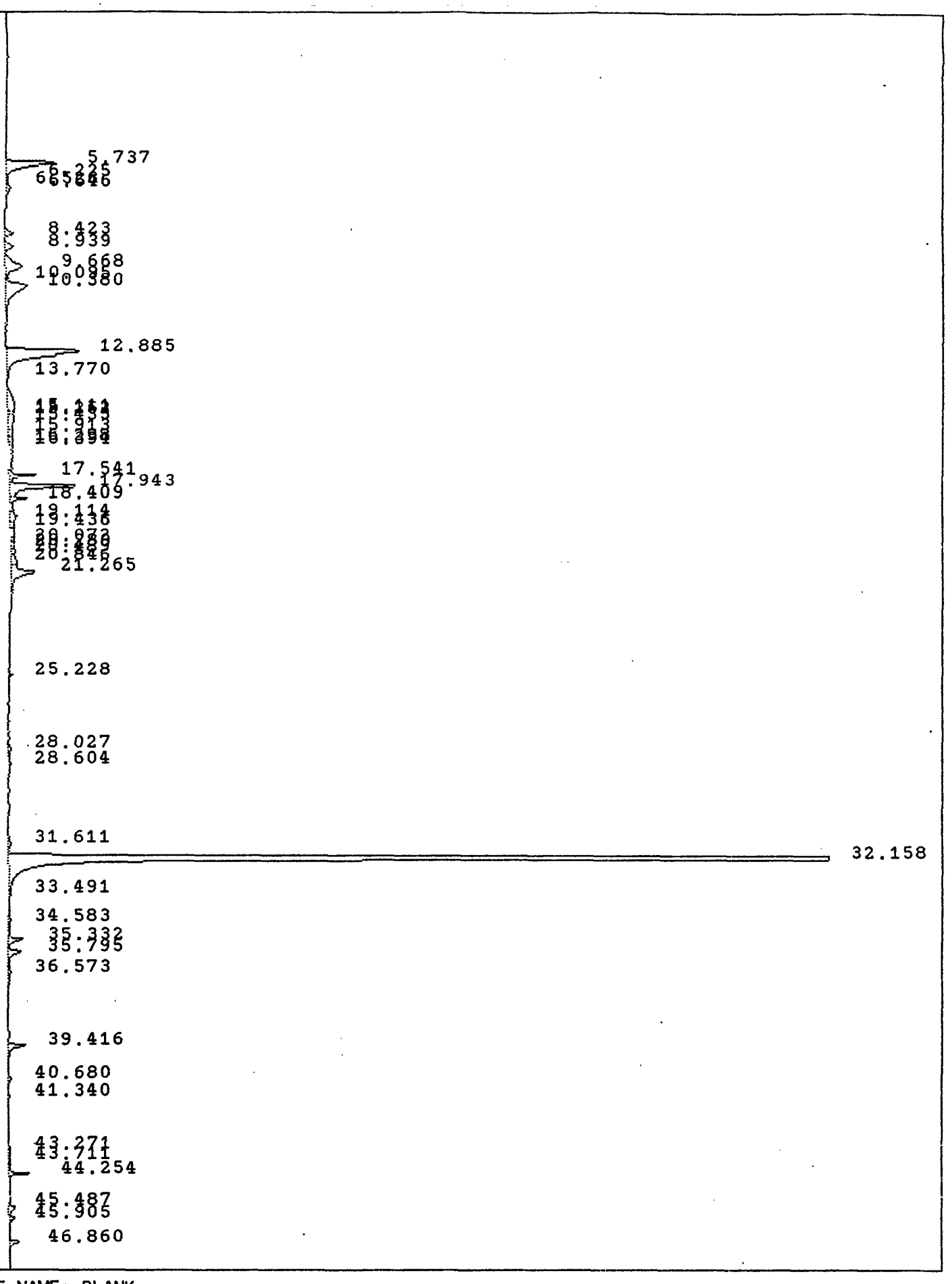
Integration Parameters: Run Time - 48.02
Threshold - 3.0 Minimum Area - 2.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Timed Events	Time	Event	Logic	Value	EventUpdate
1	27.500	SetPeakWidth	Event	.00	False
2	28.500	SetPeakWidth	Event	.00	False
3	30.100	SetPeakWidth	Event	.00	False

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
1	21.23	#21.21	2782	16769	PV	118.65	SURR-FBENZENE
2	26.43	#26.56	40	370	PV	.13	TOLUENE
4	32.19	#32.17	5126	26180	BB		ISTD-1CL2FBENZENE
5	46.15	46.20	156	730	BB	.57	NAPHTHALENE

Internal Standard Range: 4817 - 7225 (Midpoint - 6021)

Using check standard file. /CAP/RESULT/P08_258_361.RES
Reported on Mon Sep 21, 1992 1:47:14 pm
Report Formatfile: /DATA/FORMAT/CAPPID.FMT



SAMPLE NAME: BLANK
Resultfile: /CAP/RESULT/H08_265_394.RES
Plot Fields: 500 - 3000 Instrument - TRACOR540#8HAL

AR303633

Sample Name: BLANK
Batch # 92265/A08 Injected on Tue Sep 22, 1992 4:54:23 pm

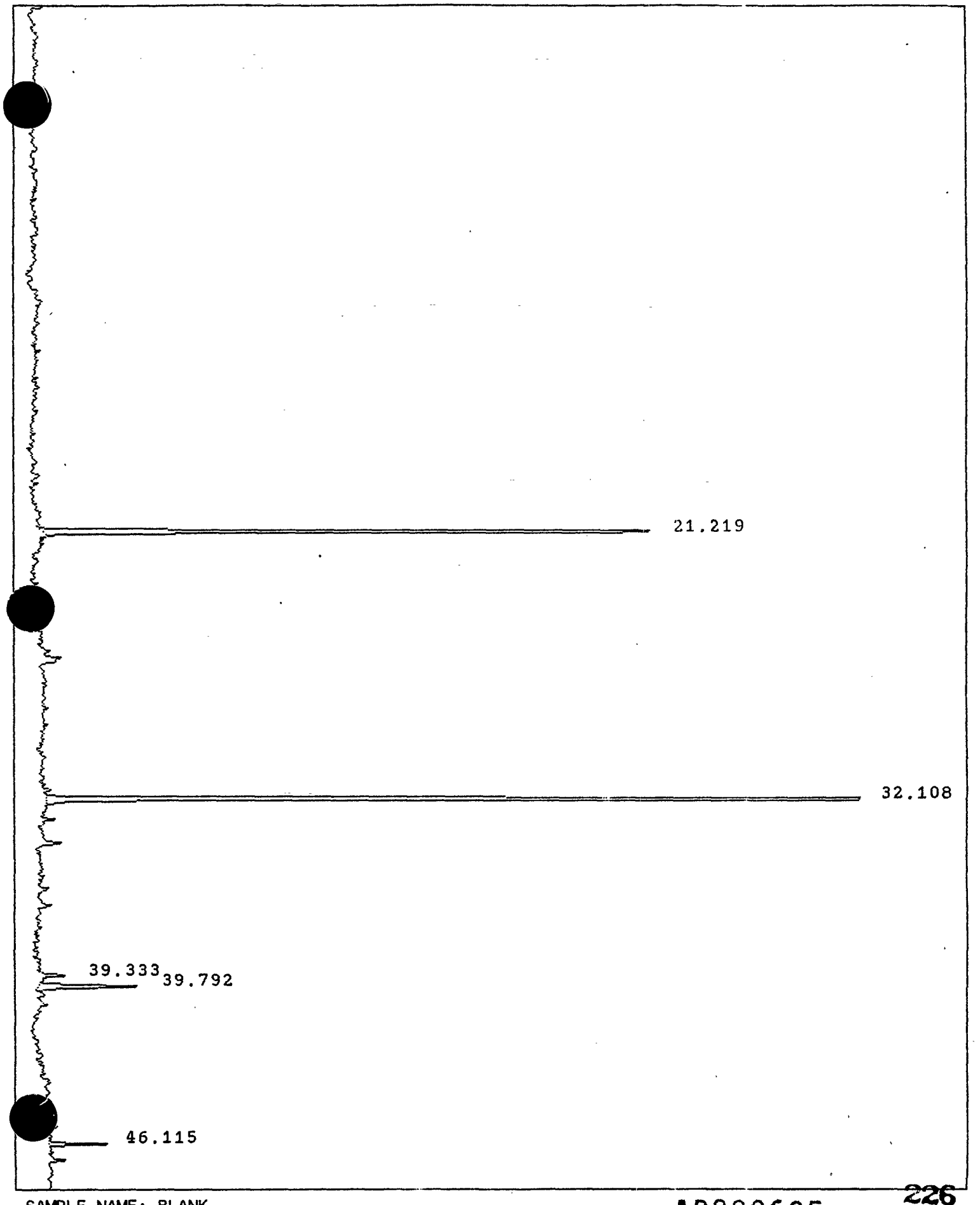
Instrument: TRACOR540#8HALL Employee #330
Calculation: ExternalSTD Quantitation: HeightUnits
Re: :file: /CAP/RESULT/H08_265_394.RES
Methodfile: /CAP/METHOD/H08_265N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
1	5.74	5.78	555	6865	PV	.48	DICHLORODIFLUOROMETHANE
4	6.65	6.67	42	434	VV	.02	VINYL CHLORIDE
6	8.94	8.89	99	1244	PV	.05	TRICHLOROFLUOROMETHANE
10	12.88	#12.91	843	15743	BV	~~.15~~	METHYLENE CHLORIDE <0.3
11	13.77	#13.74	17	178	VV	.01	TRANS-1,2-DICHLOROETHENE
14	15.43	#15.40	68	1994	VV	.02	1,1-DICHLOROETHANE
18	17.54	#17.48	352	2001	VV	.12	CIS-1,2-DICHLOROETHENE
19	17.94	#17.99	830	8641	VV	.12	CHLOROFORM
20	18.41	#18.54	231	1388	VV	.10	BROMOCHLOROMETHANE
21	19.11	#19.13	77	1234	VV	.02	1,1,1-TRICHLOROETHANE
26	20.85	#20.74	71	1311	VV	.02	1,2-DICHLOROETHANE
29	28.03	#27.98	33	434	PV	.01	1,1,2-TRICHLOROETHANE
30	28.60	#28.55	21	182	PV	.01	TETRACHLOROETHENE
31	31.61	#31.60	32	439	VV	.01	1,1,1,2-TETRACHLOROETHANE
32	32.16	#32.20	23214	175436	PV	82.92	SURR-1CL2FBENZENE
34	34.58	#34.54	27	361	BV	.04	BROMOFORM
35	35.33	#35.33	172	1536	VV	.06	1,1,2,2-TETRACHLOROETHANE
36	35.80	#35.79	150	1561	VV	.06	1,2,3-TRICHLOROPROPANE
37	36.57	#36.52	24	299	VV	.02	P-CHLOROTOLUENE
38	39.42	#39.40	204	2039	VV	.07	P-DICHLOROBENZENE
39	40.68	#40.61	35	570	VV	.02	O-DICHLOROBENZENE
44	45.49	45.54	66	876	VV	.02	1,2,4-TRICHLOROBENZENE
45	45.91	45.90	66	887	VV	.01	HEXACHLOROBUTADIENE
46	46.86	46.87	133	1201	VV	.04	1,2,3-TRICHLOROBENZENE

JRW 439
9.23.92

Reported on Tue Sep 22, 1992 5:44:07 pm
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT



SAMPLE NAME: BLANK
Resultfile: /CAP/RESULT/P08_265_394.RES
Plot Fields: 6910 - 7310 Instrument - TRACOR540#8PID

AR303635

Sample Name: BLANK
Batch # 92265/A08 Injected on Tue Sep 22, 1992 4:54:23 pm

Instrument: TRACOR540#8PID Employee #330
Calculation: InternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/P08_265_394.RES
Methodfile: /CAP/METHOD/P08_265N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - PID Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

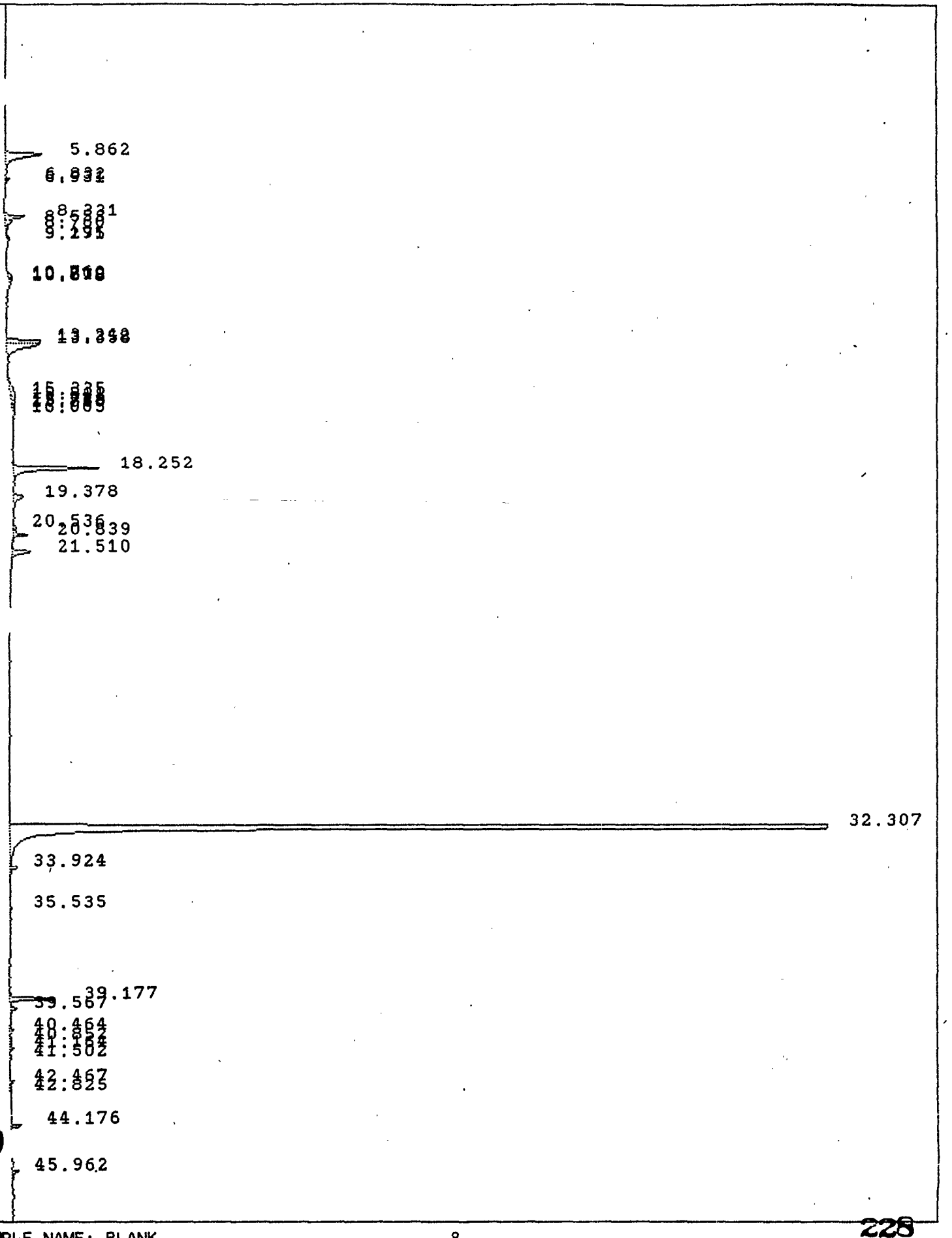
Integration Parameters: Run Time - 48.00
Threshold - 3.0 Minimum Area - 2.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Timed Events	Time	Event	Logic	Value	EventUpdate
1	27.500	SetPeakWidth	Event	.00	False
2	28.500	SetPeakWidth	Event	.00	False
3	30.100	SetPeakWidth	Event	.00	False

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
1	21.22	#21.29	1489	9019	PV	85.57	SURR-FBENZENE
2	32.11	#32.26	3806	19648	BB		ISTD-1CL2FBENZENE
3	39.33	#39.42	48	226	BB	.24	P-DICHLOROBENZENE

Internal Standard Range: 3742 - 5613 (Midpoint - 4677)

Using check standard file. /CAP/RESULT/P08_265_381.RES
Reported on Tue Sep 22, 1992 5:46:15 pm
Report Formatfile: /DATA/FORMAT/CAPPID.FMT



SAMPLE NAME: BLANK

Resultfile: /CAP/RESULT/H08_265_410.RES

Plot Fields: 500 - 3000 Instrument - TRACOR540#8HALL

AR303637

Sample Name: BLANK 8
Batch # 92265/A08 Injected on Wed Sep 23, 1992 3:46:24 pm

Instrument: TRACOR540#8HALL Employee #439
Calculation: ExternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/H08_265_410.RES
Methodfile: /CAP/METHOD/H08_265N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

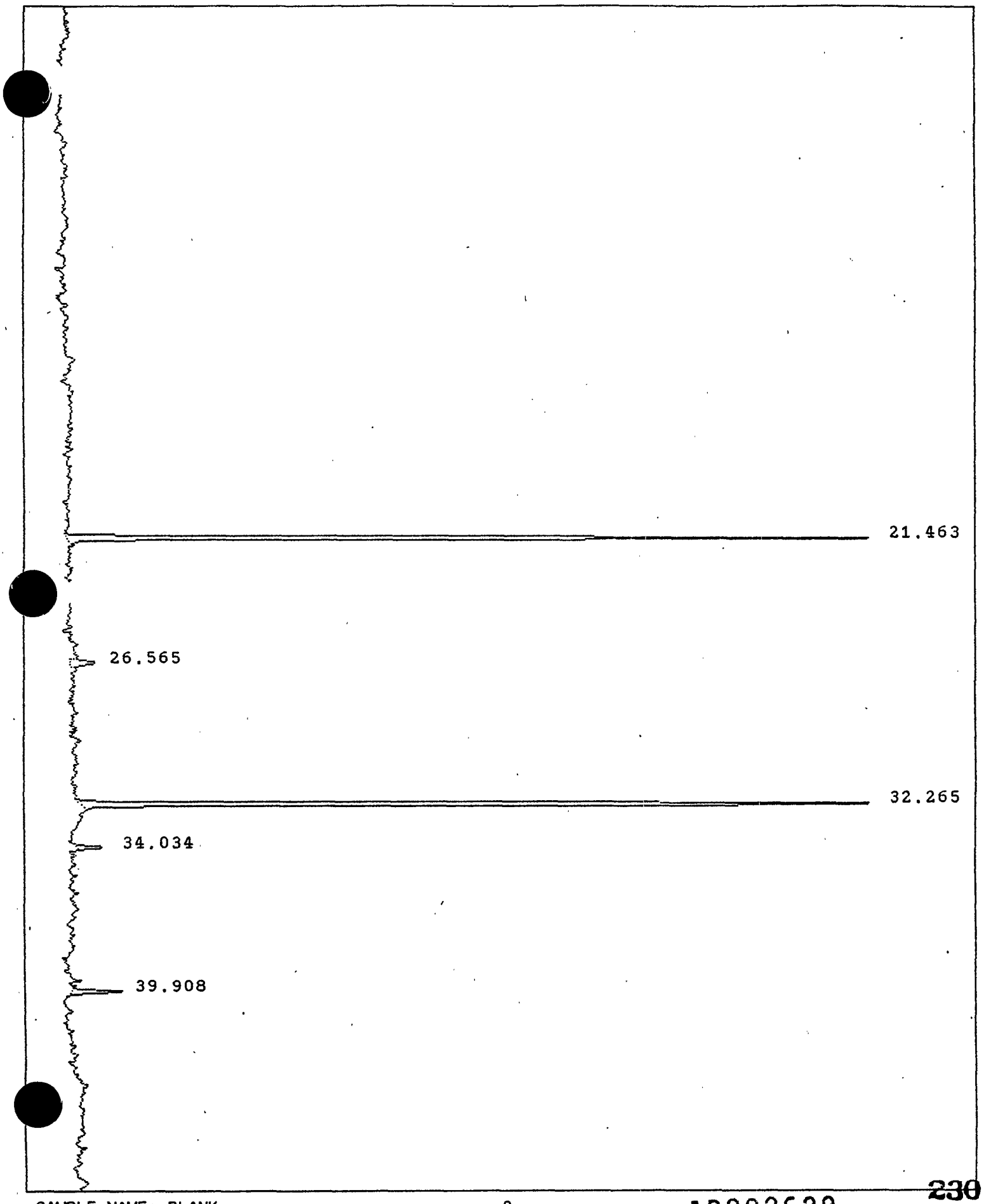
Integration Parameters: Run Time - 48.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
1	5.86	5.86	452	5535	VV	.39	DICHLORODIFLUOROMETHANE
2	6.83	6.81	51	301	VV	.03	VINYL CHLORIDE
5	8.55	8.52	73	687	VV	.06	CHLOROETHANE
7	9.19	9.20	29	202	BV	.01	TRICHLOROFLUOROMETHANE
12	13.24	#13.32	418	2956	PV	.08	METHYLENE CHLORIDE
17	15.78	#15.76	45	203	VV	.02	1,1-DICHLOROETHANE
20	18.25	#18.30	1028	9305	PV	.15	CHLOROFORM
21	19.38	#19.40	111	1350	PV	.03	1,1,1-TRICHLOROETHANE
23	20.84	#20.99	297	1438	VV	.07	1,2-DICHLOROETHANE
25	32.31	#32.31	25061	177213	PV	89.52	SURR-1CL2FBENZENE
27	35.54	#35.43	17	183	BB	.01	1,1,2,2-TETRACHLOROETHANE
28	39.18	#39.08	700	3003	BV	~~.39~~	M-DICHLOROBENZENE ND
29	39.57	#39.49	65	662	VV	.02	P-DICHLOROBENZENE
30	40.46	#40.71	70	261	BV	.03	O-DICHLOROBENZENE
37	45.96	45.92	89	513	PB	.02	HEXACHLOROBUTADIENE

JEB 439
9-30-92

Reported on Wed Sep 23, 1992 4:36:24 pm
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT

Reanalyzed - updated int. std and Surr. JW330 9-23-92



SAMPLE NAME: BLANK

Resultfile: /CAP/RESULT/P08_265_410.RES

Sample Name: BLANK 8
Batch # 92265/A08 Injected on Wed Sep 23, 1992 3:46:24 pm

Instrument: TRACOR540#8PID Employee #439
Calculation: InternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/P08_265_410.RES
Methodfile: /CAP/METHOD/P08_265NSSI.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - PID Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

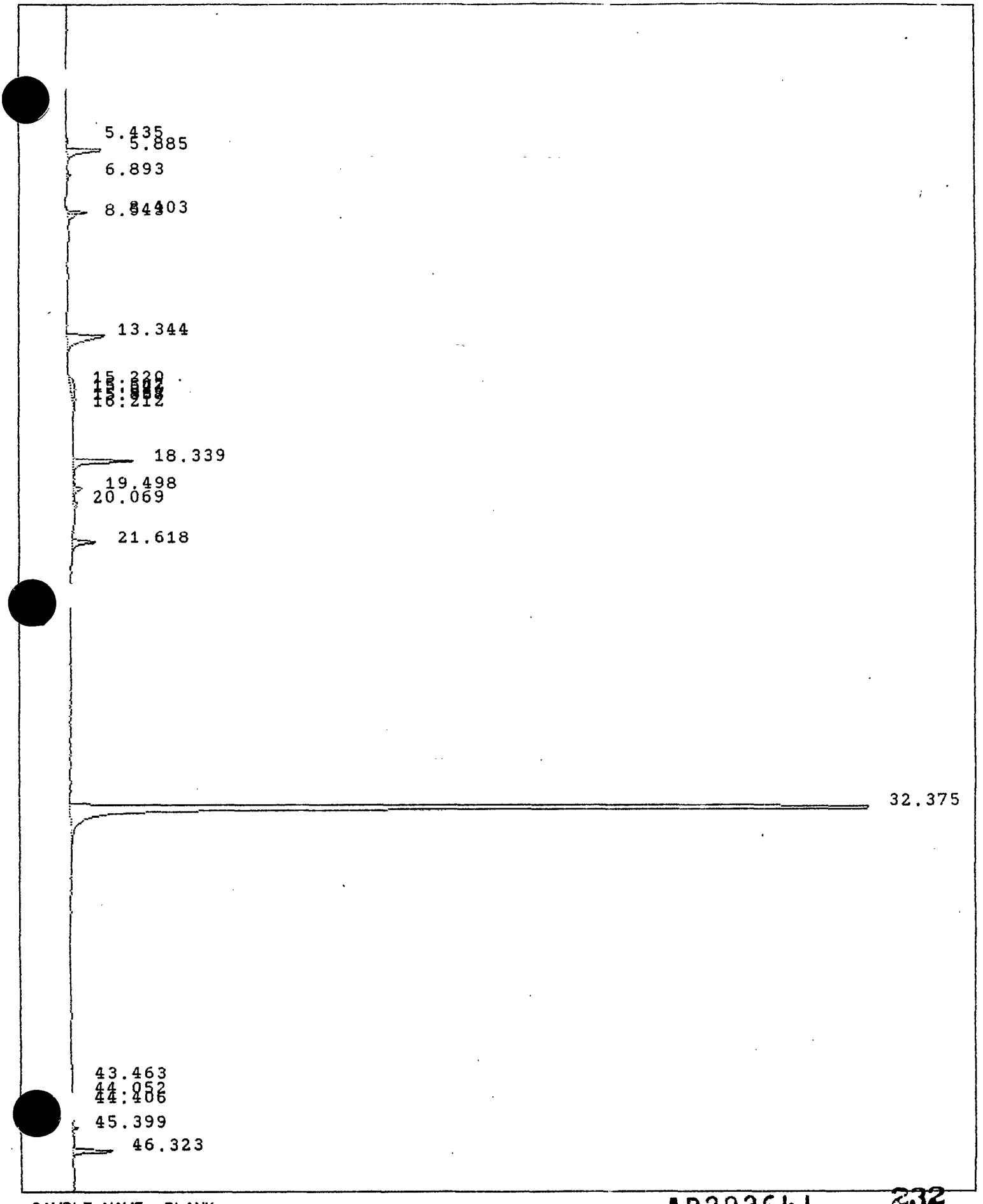
Integration Parameters: Run Time - 48.00
Threshold - 3.0 Minimum Area - 2.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Timed Events	Time	Event	Logic	Value	EventUpdate
1	27.500	SetPeakWidth	Event	.00	False
2	28.500	SetPeakWidth	Event	.00	False
3	30.100	SetPeakWidth	Event	.00	False

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
1	21.46	#21.53	2369	14447	PV	115.62	SURR-FBENZENE
2	26.56	#26.74	53	628	VV	.23	TOLUENE
3	32.26	#32.27	3714	19122	VB		ISTD-1CL2FBENZENE

Internal Standard Range: 3107 - 4660 (Midpoint - 3884)

Using check standard file. /CAP/RESULT/P08_265_412.RES
Reported on Wed Sep 23, 1992 11:13:03 pm
Report Formatfile: /DATA/FORMAT/CAPPID.FMT



SAMPLE NAME: BLANK

AR303641

232

Resultfile: /CAP/RESULT/H08_265_424.RES

Plot Fields: 500 - 3000 Instrument - TRACOR540#8HALL

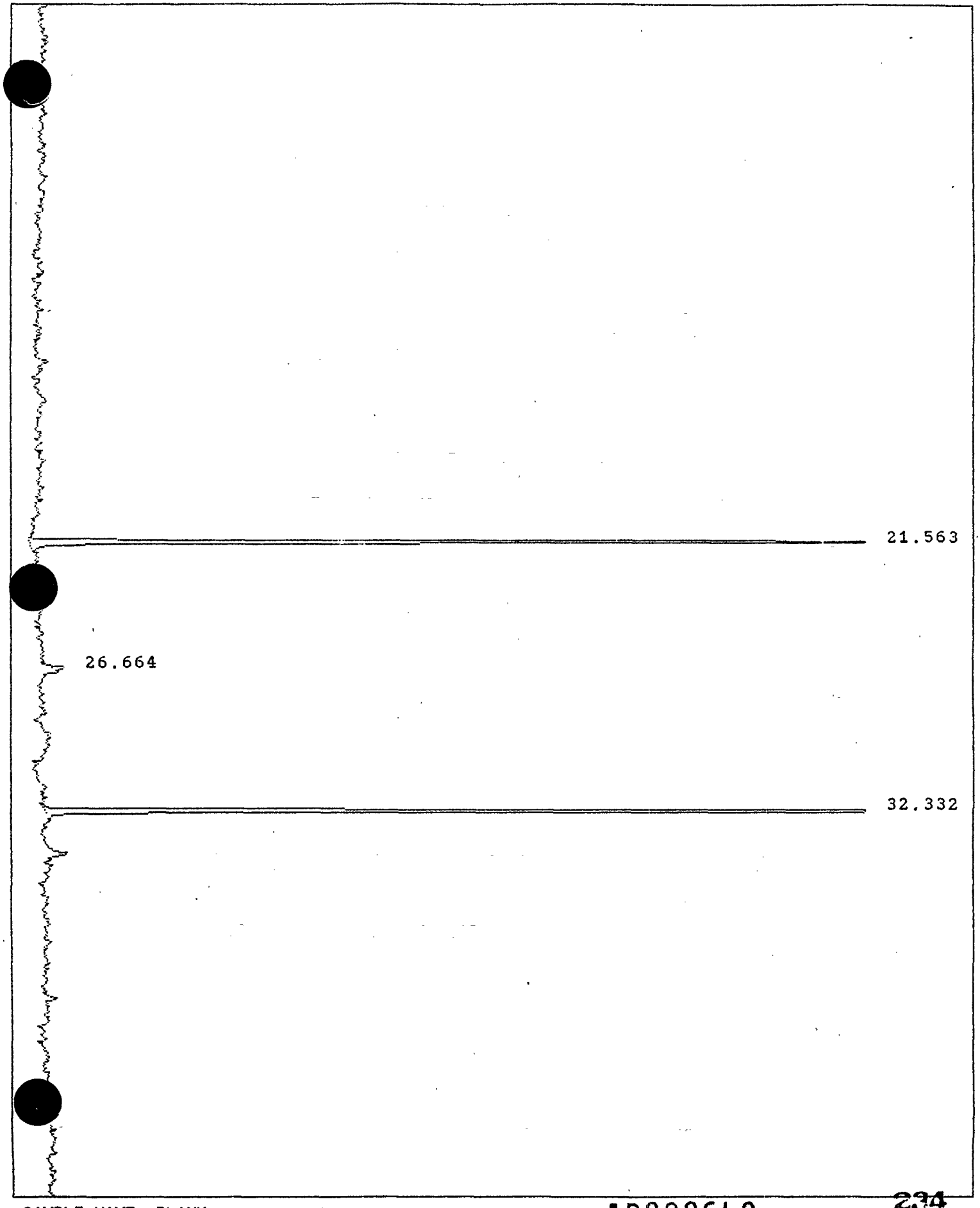
Sample Name: BLANK
Batch # 92265/A08 Injected on Thu Sep 24, 1992 12:18:50 pm

Instrument: TRACOR540#8HALL Employee #439
Calculation: ExternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/H08_265_424.RES
Methodfile: /CAP/METHOD/H08_265N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
2	5.89	5.96	466	5197	PV	.40	DICHLORODIFLUOROMETHANE
3	6.89	6.94	41	360	BB	.02	VINYL CHLORIDE
5	8.54	8.62	103	822	VV	.08	CHLOROETHANE
6	13.34	#13.40	476	7561	PV	.09	METHYLENE CHLORIDE
10	15.90	#15.85	40	227	VV	.01	1,1-DICHLOROETHANE
13	18.34	#18.38	755	6991	PV	.11	CHLOROFORM
14	19.50	#19.48	100	1401	VV	.03	1,1,1-TRICHLOROETHANE
15	20.07	#20.17	73	637	VV	.03	CARBON TETRACHLORIDE
17	32.37	#32.37	23729	175095	PV	84.76	SURR-1CL2FBENZENE

Reported on Thu Sep 24, 1992 1:10:19 pm
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT



SAMPLE NAME: BLANK
Resultfile: /CAP/RESULT/P08_265_424.RES

AR303643

Sample Name: BLANK
Batch # 92265/A08 Injected on Thu Sep 24, 1992 12:18:50 pm

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nstrument: TRACOR540#8PID Employee #439
culation: InternalSTD Quantitation: HeightUnits
tfile: /CAP/RESULT/P08_265_424.RES
lfile: /CAP/METHOD/CP08_265NSSIS.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - PID Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

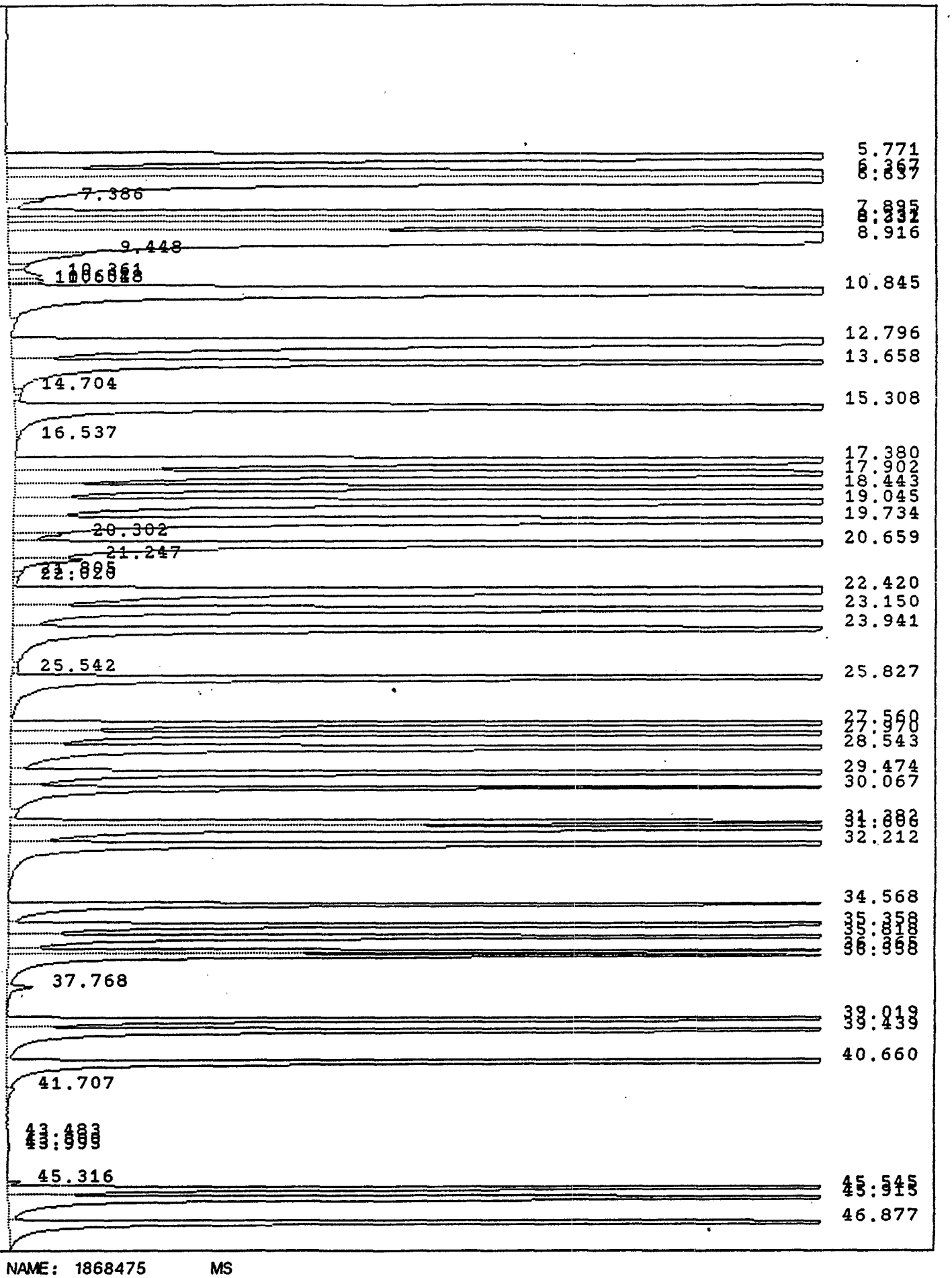
Integration Parameters: Run Time - 48.00
reshold - 3.0 Minimum Area - 2.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Timed Events	Time	Event	Logic	Value	EventUpdate
1	27.500	SetPeakWidth	Event	.00	False
2	28.500	SetPeakWidth	Event	.00	False
3	30.100	SetPeakWidth	Event	.00	False

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
1	21.56	#21.45	2592	15984	PV	110.42	SURR-FBENZENE
2	26.66	#26.73	25	256	PV	.12	TOLUENE
3	32.33	#32.29	3523	18335	BV		ISTD-1CL2FBENZENE

Internal Standard Range: 3107 - 4660 (Midpoint - 3884)

Using check standard file. /CAP/RESULT/P08_265_412.RES
Reported on Fri Sep 25, 1992 3:56:49 pm
Report Formatfile: /DATA/FORMAT/CAPPID.FMT



SAMPLE NAME: 1868475 MS
Resultfile: /CAP/RESULT/H08_265_384.RES
Plot Fields: 500 - 3000 Instrument - TRACOR540#8HALL

AR303645

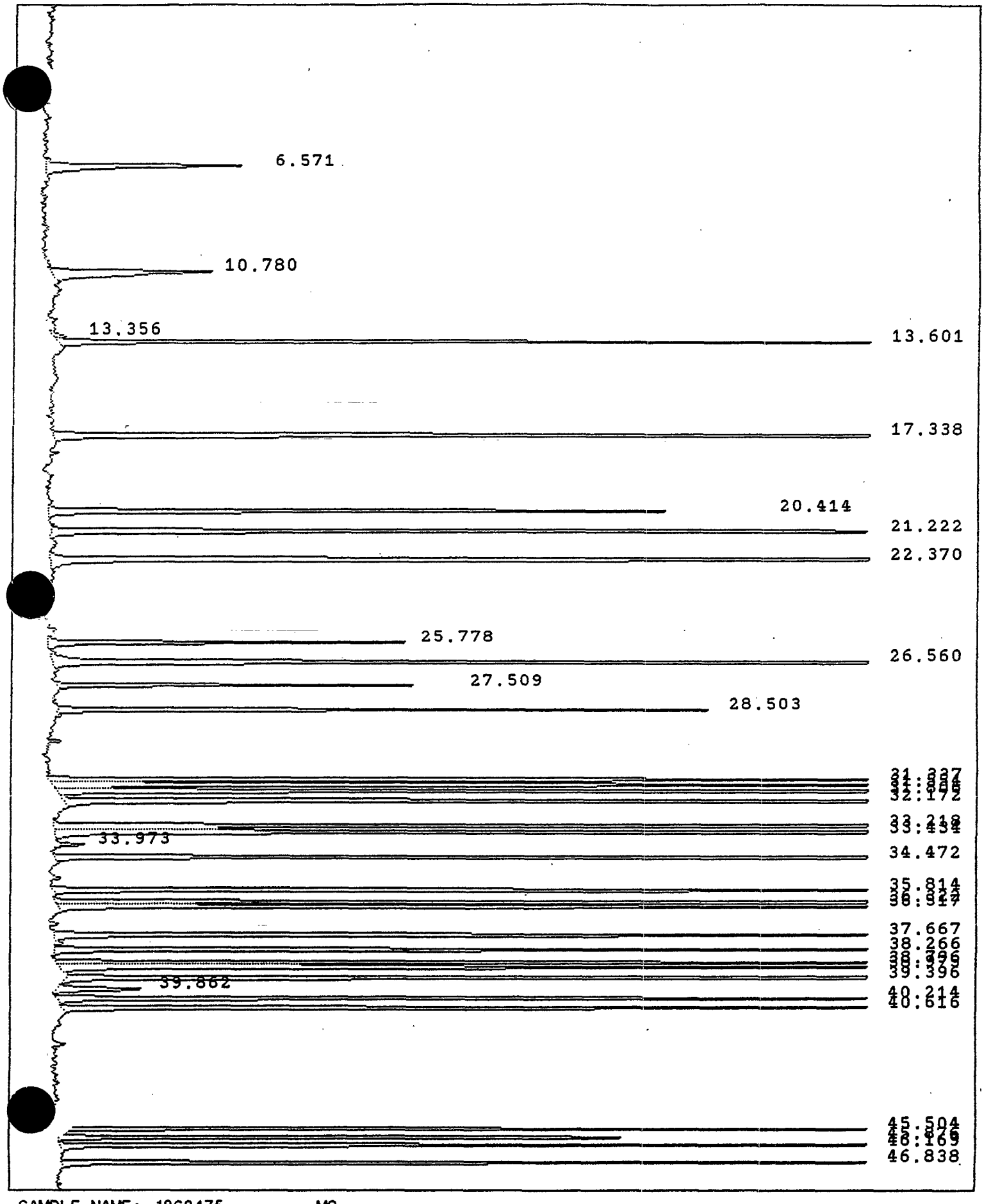
Sample Name: 1868475 MS
Batch # 92265/A08 Injected on Mon Sep 21, 1992 9:56:06 pm

Instrument: TRACOR540#8HALL Employee #330
Calculation: ExternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/H08_265_384.RES
Methodfile: /CAP/METHOD/H08_265N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
1	5.77	5.74	22511	281789	BV	18.26	DICHLORODIFLUOROMETHANE
2	6.37	6.33	22107	249613	VV	25.00	CHLOROMETHANE
3	6.64	6.61	35961	451247	VV	17.66	VINYL CHLORIDE
5	7.90	7.88	15004	188545	VV	21.84	BROMOMETHANE
6	8.23	8.23	22794	242585	VV	15.48	CHLOROETHANE
8	8.92	8.83	49670	809757	VV	18.74	TRICHLOROFLUOROMETHANE
13	10.84	#10.84	12573	271551	VV	6.48	1,1-DICHLOROETHENE
14	12.80	#12.80	28518	368137	PV	10.27	METHYLENE CHLORIDE
15	13.66	#13.66	33780	288189	VV	7.36	TRANS-1,2-DICHLOROETHENE
17	15.31	#15.31	40995	389352	VV	9.39	1,1-DICHLOROETHANE
19	17.38	#17.38	124834	978309	BV	26.81	CIS-1,2-DICHLOROETHENE
20	17.90	#17.90	43119	401461	VV	7.24	CHLOROFORM
21	18.44	#18.44	25098	204673	VV	7.86	BROMOCHLOROMETHANE
22	19.05	#19.05	40438	413467	VV	10.57	1,1,1-TRICHLOROETHANE
23	19.73	#19.73	32697	366220	VV	7.66	CARBON TETRACHLORIDE
	20.66	#20.66	36689	310402	VV	7.61	1,2-DICHLOROETHANE
[illegible]	22.42	#22.42	164061	1245615	VV	34.07	TRICHLOROETHENE
30	23.15	#23.15	29896	254690	VV	8.41	1,2-DICHLOROPROPANE
31	23.94	#23.94	35159	274008	VV	8.56	BROMODICHLOROMETHANE
33	25.83	#25.83	36051	271161	VV	10.76	CIS-1,3-DICHLOROPROPENE
34	27.56	#27.56	21437	162869	VV	6.56	TRANS-1,3-DICHLOROPROPENE
35	27.97	#27.97	35079	267453	VV	7.39	1,1,2-TRICHLOROETHANE
36	28.54	#28.54	40888	309938	VV	7.63	TETRACHLOROETHENE
37	29.47	#29.47	21864	160445	VV	8.50	DIBROMOCHLOROMETHANE
38	30.07	#30.07	12098	106500	VV	7.92	ETHYLENE DIBROMIDE
39	31.38	#31.38	15182	91788	VV	9.25	CHLOROBENZENE
40	31.61	#31.61	46900	347985	VV	8.77	1,1,1,2-TETRACHLOROETHANE
41	32.21	#32.21	26831	206009	VV	95.84	SURR-1CL2FBENZENE
42	34.57	#34.57	11481	91978	BV	8.01	BROMOFORM
43	35.36	#35.36	24060	171979	VV	6.89	1,1,2,2-TETRACHLOROETHANE
44	35.82	#35.82	17833	135284	VV	6.32	1,2,3-TRICHLOROPROPANE
45	36.37	#36.37	10966	74442	VV	6.24	O-CHLOROTOLUENE
46	36.56	#36.56	12836	111155	VV	6.99	P-CHLOROTOLUENE
48	39.02	#39.02	18221	131261	PV	7.30	M-DICHLOROBENZENE
49	39.44	#39.44	23921	182846	VV	7.43	P-DICHLOROBENZENE
50	40.66	#40.66	22062	160644	VV	8.10	O-DICHLOROBENZENE
56	45.55	45.58	24984	150372	VV	6.95	1,2,4-TRICHLOROBENZENE
57	45.91	45.96	37463	239330	VV	8.19	HEXACHLOROBUTADIENE
58	46.88	46.92	23707	157359	VB	7.78	1,2,3-TRICHLOROBENZENE

Reported on Mon Sep 21, 1992 10:49:09 pm
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT



SAMPLE NAME: 1868475 MS
Resultfile: /CAP/RESULT/P08_265_384.RES
Plot Fields: 6910 - 7310 Instrument - TRACOR540#8PID

AR303647

Sample Name: 1868475 MS
Batch # 92265/A08 Injected on Mon Sep 21, 1992 9:56:06 pm

Instrument: TRACOR540#8PID Employee #330
Calculation: InternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/P08_265_384.RES
Methodfile: /CAP/METHOD/P08_265N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - PID Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

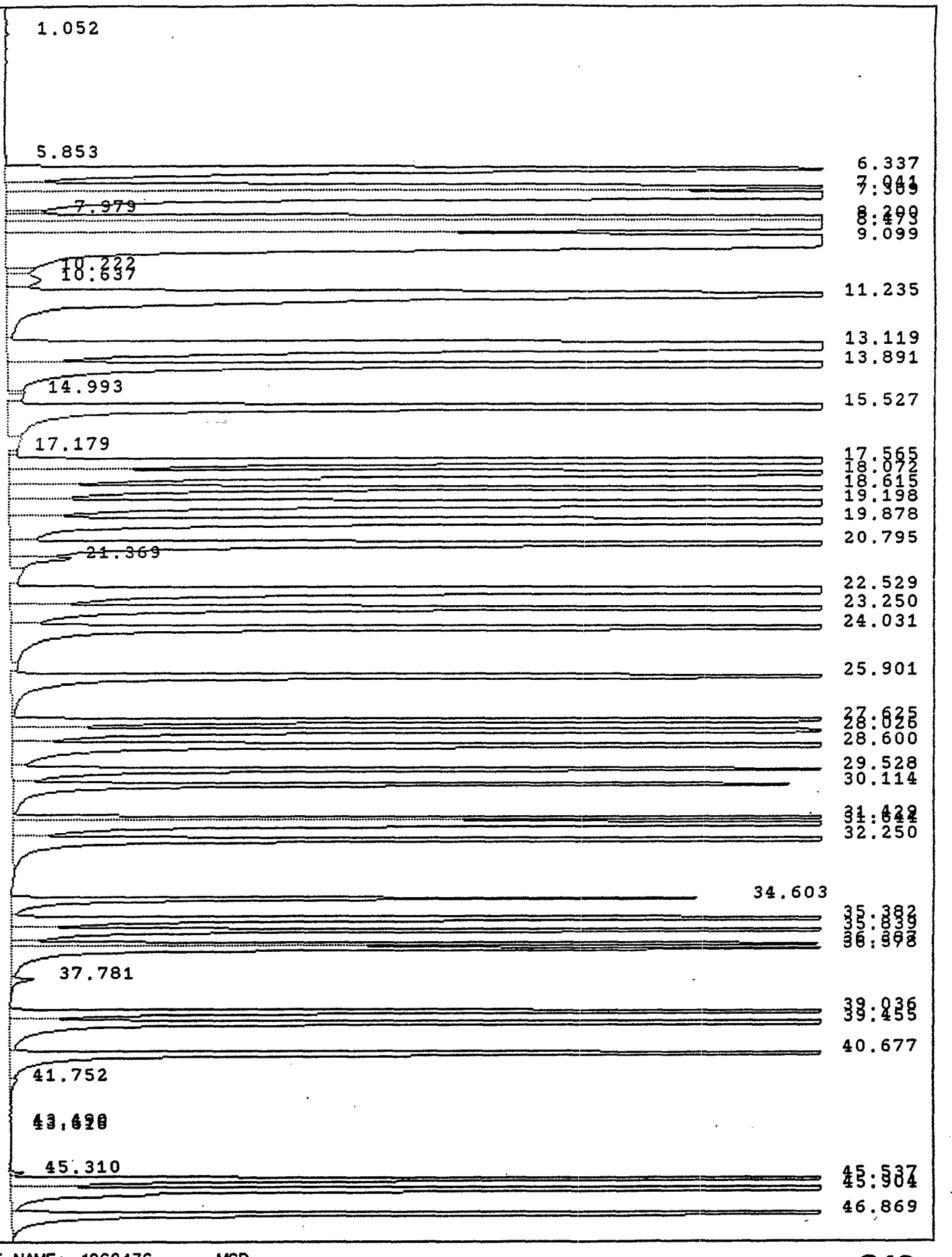
Integration Parameters: Run Time - 48.00
Threshold - 3.0 Minimum Area - 2.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Timed Events	Time	Event	Logic	Value	EventUpdate
1	27.500	SetPeakWidth	Event	.00	False
2	28.500	SetPeakWidth	Event	.00	False
3	30.100	SetPeakWidth	Event	.00	False

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
1	6.57	6.63	373	3899	VV	18.04	VINYL CHLORIDE
2	10.78	10.86	319	4309	VV	9.19	1,1-DICHLOROETHENE
4	13.60	#13.60	1801	11165	VV	7.57	TRANS-1,2-DICHLOROETHENE
5	17.34	#17.34	3442	21112	BV	29.96	CIS-1,2-DICHLOROETHENE
6	20.41	#20.41	1332	8500	BV	6.84	BENZENE
7	21.22	#21.22	1990	12052	BV	94.02	SURR-FBENZENE
8	22.37	#22.37	5864	33878	BV	41.14	TRICHLOROETHENE
9	25.78	#25.78	742	4293	VV	10.02	CIS-1,3-DICHLOROPROPENE
10	26.56	#26.56	2869	17029	VV	8.84	TOLUENE
11	27.51	#27.51	765	3889	PB	12.14	TRANS-1,3-DICHLOROPROPENE
1[illegible]	28.50	#28.50	1329	7282	BB	8.72	TETRACHLOROETHENE
1[illegible]	31.34	#31.34	3410	17463	BV	8.95	CHLOROBENZENE
14	31.55	#31.55	3048	16250	VV	9.80	ETHYLBENZENE
15	31.81	#31.81	3283	17522	VV	9.07	M-XYLENE
16	32.17	#32.17	4628	23637	VV		ISTD-1CL2FBENZENE
17	33.22	#33.22	2717	14486	BV	8.90	O-XYLENE
18	33.43	#33.43	4214	21393	VB	9.94	STYRENE
20	34.47	#34.47	2241	12260	BB	9.20	CUMENE
21	35.81	#35.81	3133	16374	BB	9.56	N-PROPYLBENZENE
22	36.32	#36.32	2876	14734	BV	8.68	O-CHLOROTOLUENE
23	36.52	#36.52	3499	17480	VB	9.41	P-CHLOROTOLUENE
24	37.67	#37.67	2862	14854	BB	9.04	1,2,4-TRIMETHYLBENZENE
25	38.27	#38.27	1979	10913	BB	8.38	SEC-BUTYLBENZENE
26	38.80	#38.80	2218	11516	BV	8.77	P-ISOPROPYLTOLUENE
27	38.97	#38.97	2773	14112	VB	8.67	M-DICHLOROBENZENE
28	39.40	#39.40	3225	15683	BB	9.53	P-DICHLOROBENZENE
30	40.21	#40.21	2233	11613	BB	8.36	N-BUTYLBENZENE
31	40.62	#40.62	2541	12809	BB	9.33	O-DICHLOROBENZENE
32	45.50	45.53	2301	9147	BB	8.41	1,2,4-TRICHLOROBENZENE
33	45.88	45.90	1635	6953	BV	8.81	HEXACHLOROBUTADIENE
34	46.17	46.20	3083	12736	PB	8.43	NAPHTHALENE
35	46.84	46.87	2312	9858	BB	8.77	1,2,3-TRICHLOROBENZENE

Internal Standard Range: 3742 - 5613 (Midpoint - 4677)

Using check standard file. /CAP/RESULT/P08_265_381.RES
Reported on Mon Sep 21, 1992 10:51:46 pm
Report Formatfile: /DATA/FORMAT/CAPPID.FMT



SAMPLE NAME: 1868476 MSD

Resultfile: /CAP/RESULT/H08_265_385.RES

Plot Fields: 500 - 3000 Instrument - TRACOR540#8H

AR303649

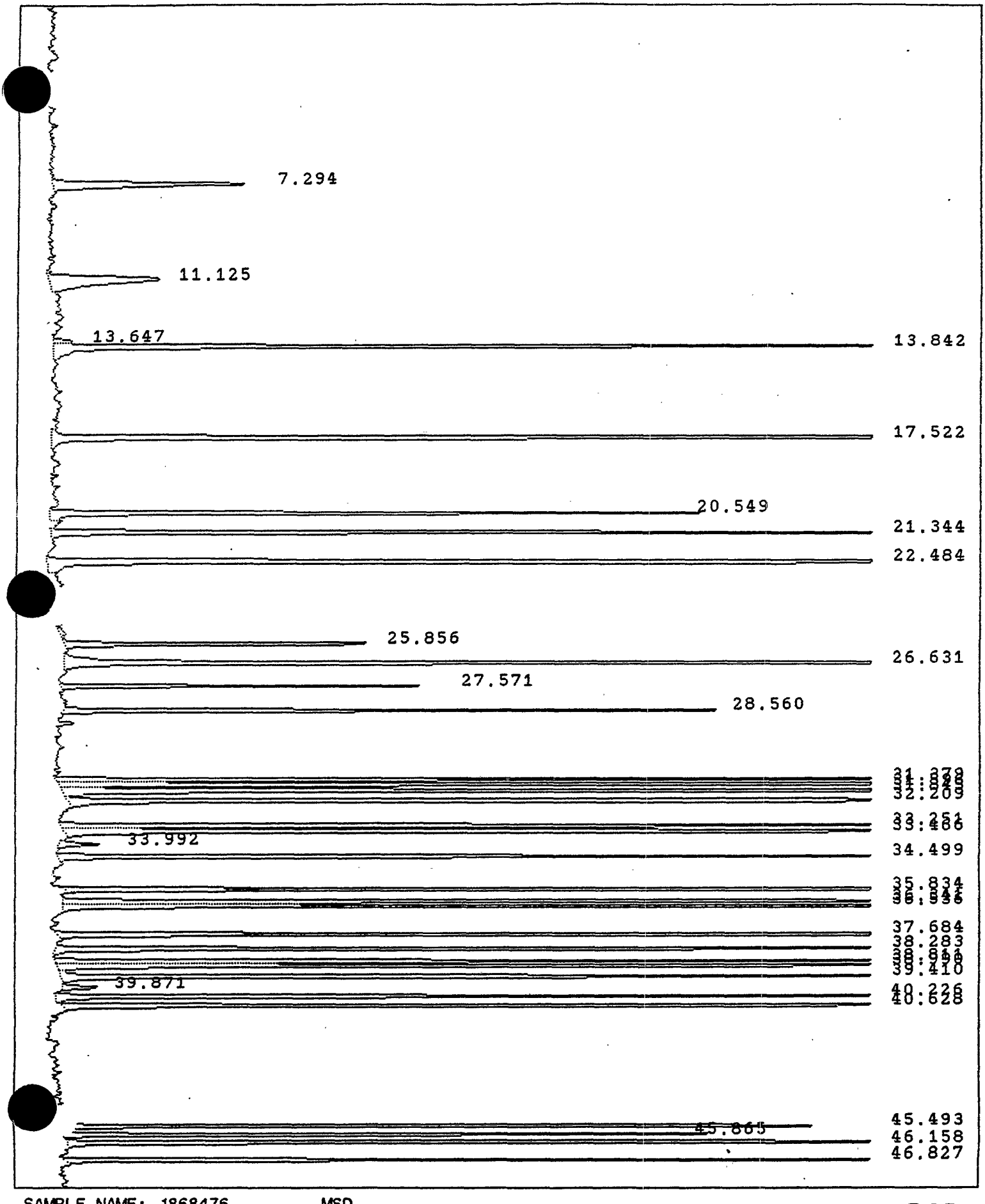
Sample Name: 1868476 MSD
Batch # 92265/A08 Injected on Mon Sep 21, 1992 11:35:02 pm

Instrument: TRACOR540#8HALL Employee #330
Calculation: ExternalSTD Quantitation: HeightUnits
Re 'tfile: /CAP/RESULT/H08_265_385.RES
Me odfile: /CAP/METHOD/H08_265N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
3	6.34	6.33	10056	151097	VV	9.46	DICHLORODIFLUOROMETHANE
4	7.04	7.04	10769	132362	VV	13.68	CHLOROMETHANE
5	7.31	7.31	18743	301361	VV	10.18	VINYL CHLORIDE
7	8.20	8.20	16143	151225	VV	23.74	BROMOMETHANE
8	8.47	8.47	29375	547284	VV	21.19	CHLOROETHANE
9	9.10	9.10	34854	788067	VV	13.99	TRICHLOROFLUOROMETHANE
12	11.23	#11.23	10551	261461	VV	5.67	1,1-DICHLOROETHENE
13	13.12	#13.12	15926	342600	VV	5.32	METHYLENE CHLORIDE
14	13.89	#13.89	32389	286153	VV	7.12	TRANS-1,2-DICHLOROETHENE
16	15.53	#15.53	39837	370738	VV	9.15	1,1-DICHLOROETHANE
18	17.57	#17.57	118008	895605	VV	25.30	CIS-1,2-DICHLOROETHENE
19	18.07	#18.07	45885	399822	VV	7.61	CHLOROFORM
20	18.62	#18.62	23633	198007	VV	7.44	BROMOCHLOROMETHANE
21	19.20	#19.20	33687	361856	VV	8.80	1,1,1-TRICHLOROETHANE
22	19.88	#19.88	32178	345302	VV	7.57	CARBON TETRACHLORIDE
2	.0.79	#20.79	43474	329841	VV	8.69	1,2-DICHLOROETHANE
25	22.53	#22.53	167175	1206943	VV	34.76	TRICHLOROETHENE
26	23.25	#23.25	28969	254964	VV	8.14	1,2-DICHLOROPROPANE
27	24.03	#24.03	27473	233673	VV	6.95	BROMODICHLOROMETHANE
28	25.90	#25.90	33252	244959	VV	9.96	CIS-1,3-DICHLOROPROPENE
29	27.62	#27.62	19258	142494	VV	6.05	TRANS-1,3-DICHLOROPROPENE
30	28.03	#28.03	35314	266329	VV	7.43	1,1,2-TRICHLOROETHANE
31	28.60	#28.60	37205	280185	VV	7.10	TETRACHLOROETHENE
32	29.53	#29.53	13607	109436	VV	5.86	DIBROMOCHLOROMETHANE
33	30.11	#30.11	10337	92063	VV	7.02	ETHYLENE DIBROMIDE
34	31.43	#31.43	13618	87937	VV	8.40	CHLOROBENZENE
35	31.64	#31.64	39775	308551	VV	7.44	1,1,1,2-TETRACHLOROETHANE
36	32.25	#32.25	24911	185352	VV	88.98	SURR-1CL2FBENZENE
37	34.60	#34.60	8120	66816	BV	6.21	BROMOFORM
38	35.38	#35.38	25628	183497	VV	7.25	1,1,2,2-TETRACHLOROETHANE
39	35.84	#35.84	19239	143260	VV	6.68	1,2,3-TRICHLOROPROPANE
40	36.39	#36.39	10859	73165	VV	6.20	O-CHLOROTOLUENE
41	36.58	#36.58	12433	108288	VV	6.80	P-CHLOROTOLUENE
43	39.04	#39.04	17924	127555	BV	7.22	M-DICHLOROBENZENE
44	39.45	#39.45	23835	176700	VV	7.41	P-DICHLOROBENZENE
45	40.68	#40.68	24431	171765	VV	8.76	O-DICHLOROBENZENE
50	45.54	45.54	24466	145754	VV	6.85	1,2,4-TRICHLOROBENZENE
51	45.90	45.90	34859	230849	VV	7.72	HEXACHLOROBUTADIENE
52	46.87	46.87	22554	152380	VB	7.47	1,2,3-TRICHLOROBENZENE

Rep ''ed on Tue Sep 22, 1992 1:24:48 am
Rep . Formatfile: /DATA/FORMAT/CAPHALL.FMT



SAMPLE NAME: 1868476 MSD
Resultfile: /CAP/RESULT/P08_265_385.RES
Plot Fields: 6910 - 7310 Instrument - TRACOR540#8PID

AR303651

242

Sample Name: 1868476 MSD
Batch # 92265/A08 Injected on Mon Sep 21, 1992 11:35:02 pm

Instrument: TRACOR540#8PID Employee #330
Calculation: InternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/P08_265_385.RES
Methodfile: /CAP/METHOD/P08_265N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
60m x 0.75mm ID fused silica VOCOL column - PID Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 02764

Integration Parameters: Run Time - 48.00
Threshold - 3.0 Minimum Area - 2.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Timed Events	Time	Event	Logic	Value	EventUpdate
1	27.500	SetPeakWidth	Event	.00	False
2	28.500	SetPeakWidth	Event	.00	False
3	30.100	SetPeakWidth	Event	.00	False

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
1	7.29	7.29	365	4272	BV	17.26	VINYL CHLORIDE
2	11.13	11.13	212	4781	PV	6.17	1,1-DICHLOROETHENE
4	13.84	#13.84	1831	12029	VB	7.49	TRANS-1,2-DICHLOROETHENE
5	17.52	#17.52	3857	22718	PV	32.60	CIS-1,2-DICHLOROETHENE
6	20.55	#20.55	1336	8709	PV	6.64	BENZENE
7	21.34	#21.34	1826	11203	VV	83.90	SURR-FBENZENE
8	22.48	#22.48	6303	36617	BV	43.09	TRICHLOROETHENE
9	25.86	#25.86	768	4383	PV	10.08	CIS-1,3-DICHLOROPROPENE
10	26.63	#26.63	2938	17605	BV	8.80	TOLUENE
11	27.57	#27.57	771	3924	BB	12.06	TRANS-1,3-DICHLOROPROPENE
12	28.56	#28.56	1344	7399	BV	8.58	TETRACHLOROETHENE
	31.38	#31.38	3454	17776	BV	8.82	CHLOROBENZENE
14	31.60	#31.60	3116	16559	VV	9.75	ETHYLBENZENE
15	31.84	#31.84	3353	18064	VV	9.01	M-XYLENE
16	32.21	#32.21	4758	24101	PB		ISTD-1CL2FBENZENE
17	33.25	#33.25	2773	14665	BV	8.83	O-XYLENE
18	33.47	#33.47	4256	21346	VB	9.76	STYRENE
20	34.50	#34.50	2268	12337	BB	9.06	CUMENE
21	35.83	#35.83	3159	16346	BV	9.38	N-PROPYLBENZENE
22	36.34	#36.34	2876	14732	BV	8.45	O-CHLOROTOLUENE
23	36.54	#36.54	3545	17738	VV	9.28	P-CHLOROTOLUENE
24	37.68	#37.68	2872	14901	BV	8.83	1,2,4-TRIMETHYLBENZENE
25	38.28	#38.28	1969	10941	BB	8.13	SEC-BUTYLBENZENE
26	38.81	#38.81	2215	11547	BV	8.53	P-ISOPROPYLTOLUENE
27	38.99	#38.99	2803	14324	VV	8.53	M-DICHLOROBENZENE
28	39.41	#39.41	3222	16025	VB	9.27	P-DICHLOROBENZENE
30	40.23	#40.23	2214	11508	BV	8.09	N-BUTYLBENZENE
31	40.63	#40.63	2566	12980	PV	9.17	O-DICHLOROBENZENE
32	45.49	45.53	2323	9172	BB	8.27	1,2,4-TRICHLOROBENZENE
33	45.87	45.90	1611	6825	BB	8.46	HEXACHLOROBUTADIENE
34	46.16	46.20	3559	14556	BB	9.36	NAPHTHALENE
35	46.83	46.87	2373	9954	BV	8.76	1,2,3-TRICHLOROBENZENE

Internal Standard Range: 3742 - 5613 (Midpoint - 4677)

Using check standard file. /CAP/RESULT/P08_265_381.RES
Reported on Tue Sep 22, 1992 1:29:39 am
Report Formatfile: /DATA/FORMAT/CAPPID.FMT

AR303652

Data Package

Tier I Data Package

Analytical Data Report Package
for
Dames & Moore - PA

Project No. 10839-126
Rockwell
Grab Water Samples
Collected on 09/11/92, 09/14/92 by JV/ME
LLI Sample No. 1868435-1868450

Prepared by Michelle Hostetter

Reviewed & Approved by Sandra T Patton

Date 10/8/92

Delivery Date

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Sample Reference List for SDG # RAS12
with a Package Type of TIER I

Lab Sample Number	Sample Code	Client Sample Description
1868435	OB-4-	OB-4 Grab Water Sample
1868436	BR-4-	BR-4 Grab Water Sample
1868437	OB-7-	OB-7 Grab Water Sample
1868438	BR-7-	BR-7 Grab Water Sample
1868439	OB-6-	OB-6 Grab Water Sample
1868440	BR-6-	BR-6 Grab Water Sample
1868441	OB-8-	OB-8 Grab Water Sample
1868442	DBR-5	DBR-5 Grab Water Sample
1868443	TB-1R	TB-1 Water Sample
1868444	OB-4D	OB-4 Dup. Grab Water Sample
1868445	12D--	DBR-12D Grab Water Sample
1868446	12S--	DBR-12S Grab Water Sample
1868447	BR-5-	BR-5 Grab Water Sample
1868448	BR-6-	BR-6 Unspiked Grab Water Sample
1868449	BR-6-	BR-6 Matrix Spike Grab Water Sample
1868450	BR-6-	BR-6 Matrix Spike Duplicate Grab Water Sample

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Analysis Request/Environmental Services Chain of Custody

1868435-50

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Please print. Instructions on reverse side correspond with circled numbers.

(1)
Client: DAMES & MOORE
Acct. #: 4083
Project Name/#: Rockwell 10839-126
Project Manager: M. EDELMAN
P.O. #: 1041343
Sampler: J. Volpe
Quote #:

Matrix (4): Soil / Water / Other

Analyses Requested (5): Reg Vol / U Vol

For LLI use only
FSC:
SCR #:

(2) Sample Identification	Date Collected	Time Collected	(3) Grab	Composite	Soil	Water	Other	Total # of Containers	Reg Vol	U Vol	Remarks (6)
OB-4	9/11/92	1045	x			x		3	x	x	
BR-4		1010									
OB-7		1235									
BR-7		1250									
OB-6		1450									
BR-6		1500									
OB-8		1615									
DBR-5		1745									
TB-1		0930									
DOB-4 Dup		1045									

Turnaround time requested (please circle): Normal Rush
(Rush TAT is subject to LLI approval and surcharge.)

Rush results requested by (please circle):
Fax Fax #:
Phone Phone #:

(8) **Data package options** (please circle if requested):
QC Summary
Tier I (NJ)
Tier II (NJ)
EPA CLP

Site-specific QC required? Yes No
(If yes, indicate QC sample and submit triplicate volume.)

Data Package Chain of Custody required? Yes No

Relinquished by:	Date	Time	Received by:	Date	Time (9)
[signature]	9-9-92	0971			
Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	9/15/92	1000	[signature]	9/15/92	1157
Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	9/15/92	1905			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received for LLI by:	Date	Time
			[signature]	9/15/92	AM

...ster PA 17601-59...

Analysis Request/Environmental Services

Lancaster Laboratories
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Chain of Custody

Please print. Instructions on reverse side correspond with circled numbers.

(1)
Client: Dames & Moore — Acct. #: 4083
Project Name/#: Rockwell / j0839-126
Project Manager: M. EDELMAN — P.O. #: 104134-3
Sampler: Joe Volpe / M. EDELMAN — Quote #:

For LLI use only
FSC:
SCR #:

(2) (3) (4) (5) (6)

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water	Matrix: Other	Total # of Containers	Reg VOC	U VOC 1							Remarks
DBR-12D	9/14/92	1130	X			X		3	X	X							
DBR-12S	↓	1205	↓			↓		3	X	X							
BR-5	↓	1200	↓			↓		3	X	X							

AHS0365

(7)
Turnaround time requested (please circle): Normal Rush
(Rush TAT is subject to LLI approval and surcharge.)

Rush results requested by (please circle):
Fax — Fax #:
Phone — Phone #:

(8)
Data package options (please circle if requested):
QC Summary
Tier I (NJ)
Tier II (NJ)
EPA CLP

Site-specific QC required? Yes No
(If yes, indicate QC sample and submit triplicate volume.)

Data Package Chain of Custody required? Yes No

(9)

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	9-9-92	0915	Dames & Moore		
Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	9/15/92	1000	[signature]	9/15/92	11:55
Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	9/15/92	1955			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received for LLI by:	Date	Time
			[signature]	9/15/92	1900

...ster, PA 17601-59...

Analysis Request/Environmental Services

Lancaster Laboratories
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Chain of Custody

Please print. Instructions on reverse side correspond with circled numbers.

(1)
Client: DAMS & Moore — Acct. #: 4083
Project Name/#: Rockwell / 10839-126
Project Manager: M COELMAN — P.O. #: 104/345
Sampler: J. Volpe — Quote #:

For LLI use only: FSC: ____ SCR #: ____

(2) Sample Identification	Date Collected	Time Collected	(3) Grab	Composite	Matrix (4) Soil	Water	Other	Total # of Containers	(5) Analyses Requested: Rus VOC	U VOC 1							(6) Remarks
BR-6	9/11/92	1505	X			X		3	X	X							MS/MSD per labels/ DN-LLI

(7)
Turnaround time requested (please circle): Normal Rush
(Rush TAT is subject to LLI approval and surcharge.)
Rush results requested by (please circle):
Fax Fax #: ____
Phone Phone #: ____

(8)
Data package options (please circle if requested):
QC Summary
Tier I (NJ)
Tier II (NJ)
EPA CLP
Site-specific QC required? Yes No
(If yes, indicate QC sample and submit triplicate volume.)
Data Package Chain of Custody required? Yes No

(9)

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	9-9-92	0915			
[signature]	9/14/92	1000	[signature]	9/15/92	1155
[signature]	9/15/92	1905			
			Received for LLI by: [signature]	9/15/92	1900

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HN3C0C5H
8C9C0658

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LLI LAB CHRONICLE

Analysis		Trial	Analysis Date

LLI Sample # 1868435
Dames & Moore - PA

OB-4 Grab Water Sample
Rockwell/10839-126
Collected 09/11/92 by JV
Receipt/Refrigeration: 09/15/92

1032	Regulated Volatile Organics	1	09/24/92
1033	Unregulated VOC's (List 1)	1	09/24/92

LLI Sample # 1868436
Dames & Moore - PA

BR-4 Grab Water Sample
Rockwell/10839-126
Collected 09/11/92 by JV
Receipt/Refrigeration: 09/15/92

1032	Regulated Volatile Organics	1	09/25/92
1033	Unregulated VOC's (List 1)	1	09/25/92

LLI Sample # 1868437
Dames & Moore - PA

OB-7 Grab Water Sample
Rockwell/10839-126
Collected 09/11/92 by JV
Receipt/Refrigeration: 09/15/92

1032	Regulated Volatile Organics	1	09/25/92
1033	Unregulated VOC's (List 1)	1	09/25/92

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* 2216
9 13 90

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Analysis		Trial	Analysis Date

LLI Sample # 1868438
Dames & Moore - PA

BR-7 Grab Water Sample
Rockwell/10839-126
Collected 09/11/92 by JV
Receipt/Refrigeration: 09/15/92

1032	Regulated Volatile Organics	1	09/25/92
1033	Unregulated VOC's (List 1)	1	09/25/92

LLI Sample # 1868439
Dames & Moore - PA

OB-6 Grab Water Sample
Rockwell/10839-126
Collected 09/11/92 by JV
Receipt/Refrigeration: 09/15/92

1032	Regulated Volatile Organics	1	09/25/92
1033	Unregulated VOC's (List 1)	1	09/25/92

LLI Sample # 1868440
Dames & Moore - PA

BR-6 Grab Water Sample
Rockwell/10839-126
Collected 09/11/92 by JV
Receipt/Refrigeration: 09/15/92

1032	Regulated Volatile Organics	1	09/25/92
1033	Unregulated VOC's (List 1)	1	09/25/92

4-A

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LAB CHRONICLE

Analysis		Trial	Analysis Date
LLI Sample # 1868441			
Dames & Moore - PA			
OB-8 Grab Water Sample			
Rockwell/10839-126			
Collected 09/11/92 by JV			
Receipt/Refrigeration: 09/15/92			
1032	Regulated Volatile Organics	1	09/25/92
1033	Unregulated VOC's (List 1)	1	09/25/92
LLI Sample # 1868442			
Dames & Moore - PA			
DBR-5 Grab Water Sample			
Rockwell/10839-126			
Collected 09/11/92 by JV			
Receipt/Refrigeration: 09/15/92			
1032	Regulated Volatile Organics	1	09/25/92
1033	Unregulated VOC's (List 1)	1	09/25/92
LLI Sample # 1868443			
Dames & Moore - PA			
TB-1 Water Sample			
Rockwell/10839-126			
Collected by			
Receipt/Refrigeration: 09/15/92			
1032	Regulated Volatile Organics	1	09/28/92
1033	Unregulated VOC's (List 1)	1	09/28/92

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9 13 90

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LLI LAB CHRONICLE

Analysis	Trial	Analysis Date

LLI Sample # 1868444
Dames & Moore - PA

OB-4 Dup. Grab Water Sample
Rockwell/10839-126
Collected 09/11/92 by JV
Receipt/Refrigeration: 09/15/92

1032	Regulated Volatile Organics	1	09/25/92
1033	Unregulated VOC's (List 1)	1	09/25/92

LLI Sample # 1868445
Dames & Moore - PA

DBR-12D Grab Water Sample
Rockwell/10839-126
Collected 09/14/92 by JV
Receipt/Refrigeration: 09/15/92

1032	Regulated Volatile Organics	1	09/25/92
1033	Unregulated VOC's (List 1)	1	09/25/92

LLI Sample # 1868446
Dames & Moore - PA

DBR-12S Grab Water Sample
Rockwell/10839-126
Collected 09/14/92 by JV
Receipt/Refrigeration: 09/15/92

1032	Regulated Volatile Organics	1	09/25/92
1033	Unregulated VOC's (List 1)	1	09/25/92

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LLI LAB CHRONICLE

Analysis		Trial	Analysis Date
---		---	---

LLI Sample # 1868447
Dames & Moore - PA

BR-5 Grab Water Sample
Rockwell/10839-126
Collected 09/14/92 by JV
Receipt/Refrigeration: 09/15/92

1032	Regulated Volatile Organics	1	09/28/92
1033	Unregulated VOC's (List 1)	1	09/28/92

LLI Sample # 1868448
Dames & Moore - PA

BR-6 Unspiked Grab Water Sample
Rockwell/10839-126
Collected 09/11/92 by JV
Receipt/Refrigeration: 09/15/92

1032	Regulated Volatile Organics	1	09/24/92
1033	Unregulated VOC's (List 1)	1	09/24/92

LLI Sample # 1868449
Dames & Moore - PA

BR-6 Matrix Spike Grab Water Sample
Rockwell/10839-126
Collected 09/11/92 by JV
Receipt/Refrigeration: 09/15/92

1032	Regulated Volatile Organics	1	09/24/92
1033	Unregulated VOC's (List 1)	1	09/24/92

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Analysis		Trial	Analysis Date
1032	Regulated Volatile Organics	1	09/24/92
1033	Unregulated VOC's (List 1)	1	09/24/92

LLI Sample # 1868450
Dames & Moore - PA

BR-6 Matrix Spike Duplicate Grab Water Sample
Rockwell/10839-126
Collected 09/11/92 by JV
Receipt/Refrigeration: 09/15/92

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717-656-2301

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METHODOLOGY SUMMARY/REFERENCE

1032 Regulated VOCs (water)

Using a purge and trap device, the volatile compounds are transferred from the sample to a gas chromatograph where they are separated and detected by a photoionization and electrolytic conductivity detector in series.

Reference: 40 CFR Part 141-142, EPA Method 502.2

****

1033 Unregulated VOCs List 1 (water)

Using a purge and trap device, the volatile compounds are transferred from the sample to a gas chromatograph where they are separated and detected by a photoionization and electrolytic conductivity detector in series.

Reference: 40 CFR Part 141-142, EPA Method 502.2

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Analysis Report

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05:58:46 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868435
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1045
P.O. 1041343
Rel.

OB-4 Grab Water Sample
Rockwell/10839-126

OB-4- SDG# RAS12-01 ANALYSIS	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Regulated Volatile Organics	attached		103211500
Unregulated VOC's (List 1)	attached		103306000

The analysis for the Regulated volatiles and the Unregulated volatiles list 1 was performed using EPA method 502.2 by ACH on 09/24/92.

Lancaster Laboratories is certified by Pennsylvania Department of Environmental Resources (#36-037) for water testing.

1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
1 COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301
439 04083 40.00 021500

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

10

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2425 New Holland Pike
Lancaster PA 17601-5994
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AR303666

Analysis Report

Lancaster Laboratories
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05:58:48 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868435
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1045
P.O. 1041343
Rel.

OB-4 Grab Water Sample
Rockwell/10839-126

OB-4- SDG# RAS12-01 Regulated Volatile Organics	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Benzene	N.D.	ug/l	0.5	313600000N
Vinyl chloride	N.D.	ug/l	0.5	313700000N
1,1-Dichloroethene	N.D.	ug/l	0.5	313800000N
1,2-Dichloroethane	N.D.	ug/l	0.5	313900000N
1,1,1-Trichloroethane	N.D.	ug/l	0.5	314000000N
Carbon tetrachloride	N.D.	ug/l	0.5	314100000N
Trichloroethene	N.D.	ug/l	0.5	314200000N
p-Dichlorobenzene	N.D.	ug/l	0.5	103600000N

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1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

11

Lancaster Laboratories, Inc
2425 New Holland Pike
Lancaster PA 17601-5994
717-656-2301

AR303667

See reverse side for explanation of symbols and abbreviations

2216
9 13 92

Analysis Report

Lancaster Laboratories
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05:58:50 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868435
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1045
P.O. 1041343
Rel.

OB-4 Grab Water Sample
Rockwell/10839-126

OB-4- SDG# RAS12-01 Unregulated VOC's (List 1)	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Bromobenzene	N.D.	ug/l	0.5	103700000N
Bromodichloromethane	N.D.	ug/l	0.5	314600000N
Bromoform	N.D.	ug/l	0.5	315200000N
Bromomethane	N.D.	ug/l	0.5	314800000N
Chlorobenzene	N.D.	ug/l	0.5	103800000N
Dibromochloromethane	N.D.	ug/l	0.5	314700000N
Chloroethane	N.D.	ug/l	0.5	103900000N
Chloroform	N.D.	ug/l	0.5	314500000N
Chloromethane	N.D.	ug/l	0.5	104000000N
o-Chlorotoluene	N.D.	ug/l	0.5	104100000N
p-Chlorotoluene	N.D.	ug/l	0.5	104200000N
Dibromomethane	N.D.	ug/l	0.5	107400000N
m-Dichlorobenzene	N.D.	ug/l	0.5	107500000N
o-Dichlorobenzene	N.D.	ug/l	0.5	107600000N
rans-1,2-Dichloroethylene	N.D.	ug/l	0.5	107700000N
cis-1,2-Dichloroethylene	N.D.	ug/l	0.5	107800000N
Dichloromethane	N.D.	ug/l	0.5	107900000N
1,1-Dichloroethane	N.D.	ug/l	0.5	314900000N
1,1-Dichloropropene	N.D.	ug/l	0.5	108000000N
1,2-Dichloropropane	N.D.	ug/l	0.5	315000000N
1,3-Dichloropropane	N.D.	ug/l	0.5	108100000N
cis-1,3-Dichloropropene	N.D.	ug/l	0.5	108200000N
trans-1,3-Dichloropropene	N.D.	ug/l	0.5	453100000N
2,2-Dichloropropane	N.D.	ug/l	0.5	108300000N
Ethylbenzene	N.D.	ug/l	0.5	314400000N
Styrene	N.D.	ug/l	0.5	108400000N
1,1,2-Trichloroethane	N.D.	ug/l	0.5	315100000N
1,1,1,2-Tetrachloroethane	N.D.	ug/l	0.5	108500000N
1,1,2,2-Tetrachloroethane	N.D.	ug/l	0.5	315300000N
Tetrachloroethene	N.D.	ug/l	0.5	315400000N
1,2,3-Trichloropropane	N.D.	ug/l	0.5	108600000N
Toluene	N.D.	ug/l	0.5	314300000N
o-Xylene	N.D.	ug/l	0.5	315500000N
m-Xylene	N.D.	ug/l	0.5	315600000N
p-Xylene	N.D.	ug/l	0.5	315700000N

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Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

12

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Analysis Report

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05:58:50 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868435
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1045
P.O. 1041343
Rel.

OB-4 Grab Water Sample
Rockwell/10839-126

OB-4- SDG# RAS12-01	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Unregulated VOC's (List 1)			

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Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

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Analysis Report

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05:58:55 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868436
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1010
P.O. 1041343
Rel.

BR-4 Grab Water Sample
Rockwell/10839-126

BR-4- SDG# RAS12-02

ANALYSIS	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Regulated Volatile Organics	attached		103211500
Unregulated VOC's (List 1)	attached		103306000

The analysis for the Regulated volatiles and the Unregulated volatiles list 1 was performed using EPA method 502.2 by DAN on 09/25/92.

Due to dilution of the sample made necessary by the high level of trichloroethene, normal quantitation limits were not attained.

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Questions? Contact Environmental Client Services at (717) 656-2301
439 04083 0.00 017500

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

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Lancaster Laboratories Inc
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

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05:58:57 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868436
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1010
P.O. 1041343
Rel.

BR-4 Grab Water Sample
Rockwell/10839-126

BR-4- SDG# RAS12-02 Regulated Volatile Organics	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Benzene	N.D.	ug/l	3.	313600000N
Vinyl chloride	N.D.	ug/l	3.	313700000N
1,1-Dichloroethene	N.D.	ug/l	3.	313800000N
1,2-Dichloroethane	N.D.	ug/l	3.	313900000N
1,1,1-Trichloroethane	N.D.	ug/l	3.	314000000N
Carbon tetrachloride	N.D.	ug/l	3.	314100000N
Trichloroethene	160.	ug/l	3.	314200000N
p-Dichlorobenzene	N.D.	ug/l	3.	103600000N

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Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

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2425 New Holland Pike
Lancaster PA 17601-5994
717-656-2301

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10216
9 13 90

Analysis Report

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05:58:59 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868436
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1010
P.O. 1041343
Rel.

BR-4 Grab Water Sample
Rockwell/10839-126

BR-4- SDG# RAS12-02 Unregulated VOC's (List 1)	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Bromobenzene	N.D.	ug/l	3.	103700000N
Bromodichloromethane	N.D.	ug/l	3.	314600000N
Bromoform	N.D.	ug/l	3.	315200000N
Bromomethane	N.D.	ug/l	3.	314800000N
Chlorobenzene	N.D.	ug/l	3.	103800000N
Dibromochloromethane	N.D.	ug/l	3.	314700000N
Chloroethane	N.D.	ug/l	3.	103900000N
Chloroform	N.D.	ug/l	3.	314500000N
Chloromethane	N.D.	ug/l	3.	104000000N
o-Chlorotoluene	N.D.	ug/l	3.	104100000N
p-Chlorotoluene	N.D.	ug/l	3.	104200000N
Dibromomethane	N.D.	ug/l	3.	107400000N
m-Dichlorobenzene	N.D.	ug/l	3.	107500000N
o-Dichlorobenzene	N.D.	ug/l	3.	107600000N
trans-1,2-Dichloroethylene	N.D.	ug/l	3.	107700000N
cis-1,2-Dichloroethylene	17.	ug/l	3.	107800000N
Dichloromethane	N.D.	ug/l	3.	107900000N
1,1-Dichloroethane	N.D.	ug/l	3.	314900000N
1,1-Dichloropropene	N.D.	ug/l	3.	108000000N
1,2-Dichloropropane	< 3.	ug/l	3.	315000000N
1,3-Dichloropropane	N.D.	ug/l	3.	108100000N
cis-1,3-Dichloropropene	N.D.	ug/l	3.	108200000N
trans-1,3-Dichloropropene	N.D.	ug/l	3.	453100000N
2,2-Dichloropropane	N.D.	ug/l	3.	108300000N
Ethylbenzene	N.D.	ug/l	3.	314400000N
Styrene	N.D.	ug/l	3.	108400000N
1,1,2-Trichloroethane	N.D.	ug/l	3.	315100000N
1,1,1,2-Tetrachloroethane	N.D.	ug/l	3.	108500000N
1,1,2,2-Tetrachloroethane	N.D.	ug/l	3.	315300000N
Tetrachloroethene	N.D.	ug/l	3.	315400000N
1,2,3-Trichloropropane	N.D.	ug/l	3.	108600000N
Toluene	N.D.	ug/l	3.	314300000N
o-Xylene	N.D.	ug/l	3.	315500000N
m-Xylene	N.D.	ug/l	3.	315600000N
p-Xylene	N.D.	ug/l	3.	315700000N

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Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

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Analysis Report

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05:58:59 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868436
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1010
P.O. 1041343
Rel.

BR-4 Grab Water Sample
Rockwell/10839-126

BR-4- SDG# RAS12-02	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Unregulated VOC's (List 1)			

Environmental Resources (#36-037) for water testing.

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Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

17

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303673

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Analysis Report

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05:59:05 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868437
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1235
P.O. 1041343
Rel.

OB-7 Grab Water Sample
Rockwell/10839-126

OB-7- SDG# RAS12-03 ANALYSIS	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Regulated Volatile Organics	attached		103211500
Unregulated VOC's (List 1)	attached		103306000

The analysis for the Regulated volatiles and the Unregulated volatiles list 1 was performed using EPA method 502.2 by DAN on 09/25/92.

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439 04083 0.00 017500

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

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Analysis Report

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05:59:07 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868437
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1235
P.O. 1041343
Rel.

OB-7 Grab Water Sample
Rockwell/10839-126

OB-7- SDG# RAS12-03 Regulated Volatile Organics	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Benzene	N.D.	ug/l	0.5	313600000N
Vinyl chloride	N.D.	ug/l	0.5	313700000N
1,1-Dichloroethene	N.D.	ug/l	0.5	313800000N
1,2-Dichloroethane	N.D.	ug/l	0.5	313900000N
1,1,1-Trichloroethane	N.D.	ug/l	0.5	314000000N
Carbon tetrachloride	N.D.	ug/l	0.5	314100000N
Trichloroethene	3.3	ug/l	0.5	314200000N
p-Dichlorobenzene	N.D.	ug/l	0.5	103600000N

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Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

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Analysis Report

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05:59:09 352718
ASR000 D 2 16
04083 0

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2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868437
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1235
P.O. 1041343
Rel.

OB-7 Grab Water Sample
Rockwell/10839-126

OB-7- SDG# RAS12-03 Unregulated VOC's (List 1)	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Bromobenzene	N.D.	ug/l	0.5	103700000N
Bromodichloromethane	N.D.	ug/l	0.5	314600000N
Bromoform	N.D.	ug/l	0.5	315200000N
Bromomethane	N.D.	ug/l	0.5	314800000N
Chlorobenzene	N.D.	ug/l	0.5	103800000N
Dibromochloromethane	N.D.	ug/l	0.5	314700000N
Chloroethane	N.D.	ug/l	0.5	103900000N
Chloroform	N.D.	ug/l	0.5	314500000N
Chloromethane	N.D.	ug/l	0.5	104000000N
o-Chlorotoluene	N.D.	ug/l	0.5	104100000N
p-Chlorotoluene	N.D.	ug/l	0.5	104200000N
Dibromomethane	N.D.	ug/l	0.5	107400000N
m-Dichlorobenzene	N.D.	ug/l	0.5	107500000N
o-Dichlorobenzene	N.D.	ug/l	0.5	107600000N
trans-1,2-Dichloroethylene	N.D.	ug/l	0.5	107700000N
cis-1,2-Dichloroethylene	N.D.	ug/l	0.5	107800000N
Dichloromethane	N.D.	ug/l	0.5	107900000N
1,1-Dichloroethane	N.D.	ug/l	0.5	314900000N
1,1-Dichloropropene	N.D.	ug/l	0.5	108000000N
1,2-Dichloropropane	N.D.	ug/l	0.5	315000000N
1,3-Dichloropropane	N.D.	ug/l	0.5	108100000N
cis-1,3-Dichloropropene	N.D.	ug/l	0.5	108200000N
trans-1,3-Dichloropropene	N.D.	ug/l	0.5	453100000N
2,2-Dichloropropane	N.D.	ug/l	0.5	108300000N
Ethylbenzene	N.D.	ug/l	0.5	314400000N
Styrene	N.D.	ug/l	0.5	108400000N
1,1,2-Trichloroethane	N.D.	ug/l	0.5	315100000N
1,1,1,2-Tetrachloroethane	N.D.	ug/l	0.5	108500000N
1,1,2,2-Tetrachloroethane	N.D.	ug/l	0.5	315300000N
Tetrachloroethene	3.0	ug/l	0.5	315400000N
1,2,3-Trichloropropane	N.D.	ug/l	0.5	108600000N
Toluene	N.D.	ug/l	0.5	314300000N
o-Xylene	N.D.	ug/l	0.5	315500000N
m-Xylene	N.D.	ug/l	0.5	315600000N
p-Xylene	N.D.	ug/l	0.5	315700000N

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Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories Inc
3420 Hein Ho and Pike
Lancaster PA 17601-5994
717-656-2301

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Analysis Report

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ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868437
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1235
P.O. 1041343
Rel.

OB-7 Grab Water Sample
Rockwell/10839-126

OB-7- SDG# RAS12-03

	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Unregulated VOC's (List 1)			

Environmental Resources (#36-037) for water testing.

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Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

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2216
9 13 90

Analysis Report

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05:59:13 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868438
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1250
P.O. 1041343
Rel.

BR-7 Grab Water Sample
Rockwell/10839-126

BR-7- SDG# RAS12-04

ANALYSIS	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Regulated Volatile Organics	attached		103211500
Unregulated VOC's (List 1)	attached		103306000

The analysis for the Regulated volatiles and the Unregulated volatiles list 1 was performed using EPA method 502.2 by DSM on 09/25/92.

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439 04083 0.00 017500

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories Inc
2425 New Holland Pike
Lancaster PA 17601-5994

AR303678

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Analysis Report

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05:59:15 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868438
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1250
P.O. 1041343
Rel.

BR-7 Grab Water Sample
Rockwell/10839-126

BR-7- SDG# RAS12-04 Regulated Volatile Organics	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Benzene	N.D.	ug/l	0.5	313600000N
Vinyl chloride	N.D.	ug/l	0.5	313700000N
1,1-Dichloroethene	N.D.	ug/l	0.5	313800000N
1,2-Dichloroethane	N.D.	ug/l	0.5	313900000N
1,1,1-Trichloroethane	0.8	ug/l	0.5	314000000N
Carbon tetrachloride	N.D.	ug/l	0.5	314100000N
Trichloroethene	63.	ug/l	3.	314200000N
p-Dichlorobenzene	N.D.	ug/l	0.5	103600000N

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Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc
2425 New Holland Pike
Lancaster PA 17601-5994
717-656-2301

AR303679

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* 2216
9 13 90

Analysis Report

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05:59:17 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868438
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1250
P.O. 1041343
Rel.

BR-7 Grab Water Sample
Rockwell/10839-126

BR-7- SDG# RAS12-04 Unregulated VOC's (List 1)	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Bromobenzene	N.D.	ug/l	0.5	103700000N
Bromodichloromethane	N.D.	ug/l	0.5	314600000N
Bromoform	N.D.	ug/l	0.5	315200000N
Bromomethane	N.D.	ug/l	0.5	314800000N
Chlorobenzene	N.D.	ug/l	0.5	103800000N
Dibromochloromethane	N.D.	ug/l	0.5	314700000N
Chloroethane	N.D.	ug/l	0.5	103900000N
Chloroform	N.D.	ug/l	0.5	314500000N
Chloromethane	N.D.	ug/l	0.5	104000000N
o-Chlorotoluene	N.D.	ug/l	0.5	104100000N
p-Chlorotoluene	N.D.	ug/l	0.5	104200000N
Dibromomethane	N.D.	ug/l	0.5	107400000N
m-Dichlorobenzene	N.D.	ug/l	0.5	107500000N
o-Dichlorobenzene	N.D.	ug/l	0.5	107600000N
trans-1,2-Dichloroethylene	N.D.	ug/l	0.5	107700000N
cis-1,2-Dichloroethylene	11.	ug/l	0.5	107800000N
Dichloromethane	N.D.	ug/l	0.5	107900000N
1,1-Dichloroethane	0.7	ug/l	0.5	314900000N
1,1-Dichloropropene	N.D.	ug/l	0.5	108000000N
1,2-Dichloropropane	N.D.	ug/l	1.	315000000N
1,3-Dichloropropane	N.D.	ug/l	0.5	108100000N
cis-1,3-Dichloropropene	N.D.	ug/l	0.5	108200000N
trans-1,3-Dichloropropene	N.D.	ug/l	0.5	453100000N
2,2-Dichloropropane	N.D.	ug/l	0.5	108300000N
Ethylbenzene	N.D.	ug/l	0.5	314400000N
Styrene	N.D.	ug/l	0.5	108400000N
1,1,2-Trichloroethane	N.D.	ug/l	0.5	315100000N
1,1,1,2-Tetrachloroethane	N.D.	ug/l	0.5	108500000N
1,1,2,2-Tetrachloroethane	N.D.	ug/l	0.5	315300000N
Tetrachloroethene	6.7	ug/l	0.5	315400000N
1,2,3-Trichloropropane	N.D.	ug/l	0.5	108600000N
Toluene	N.D.	ug/l	0.5	314300000N
o-Xylene	N.D.	ug/l	0.5	315500000N
m-Xylene	N.D.	ug/l	0.5	315600000N
p-Xylene	N.D.	ug/l	0.5	315700000N

Due to the presence of an interferent near its retention time, normal

Questions? Contact Environmental
Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories Inc
2425 New Holland Pike
Lancaster PA 17601-5994
717-656-2301

AR303680

See reverse side for explanation of symbols and abbreviations

Analysis Report

Lancaster Laboratories
Where quality is a science.

05:59:17 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868438
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1250
P.O. 1041343
Rel.

BR-7 Grab Water Sample
Rockwell/10839-126

BR-7- SDG# RAS12-04	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Unregulated VOC's (List 1)			

reporting limits were not attained for 1,2-dichloropropane.

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1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
1 COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster PA 17601-5994
717-656-2301

AR303681

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25

Analysis Report

Lancaster Laboratories
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05:59:23 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868439
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1450
P.O. 1041343
Rel.

OB-6 Grab Water Sample
Rockwell/10839-126

OB-6- SDG# RAS12-05 ANALYSIS	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Regulated Volatile Organics	attached		103211500
Unregulated VOC's (List 1)	attached		103306000

The analysis for the Regulated volatiles and the Unregulated volatiles list 1 was performed using EPA method 502.2 by DSM on 09/25/92.

Lancaster Laboratories is certified by Pennsylvania Department of Environmental Resources (#36-037) for water testing.

1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
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Questions? Contact Environmental Client Services at (717) 656-2301
439 04083 0.00 017500

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:,

Judy A. Colello, B.S.
Group Leader

26

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

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Analysis Report

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05:59:24 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868439
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1450
P.O. 1041343
Rel.

OB-6 Grab Water Sample
Rockwell/10839-126

OB-6- SDG# RAS12-05 Regulated Volatile Organics	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Benzene	N.D.	ug/l	0.5	313600000N
Vinyl chloride	N.D.	ug/l	0.5	313700000N
1,1-Dichloroethene	N.D.	ug/l	0.5	313800000N
1,2-Dichloroethane	N.D.	ug/l	0.5	313900000N
1,1,1-Trichloroethane	N.D.	ug/l	0.5	314000000N
Carbon tetrachloride	N.D.	ug/l	0.5	314100000N
Trichloroethene	1.8	ug/l	0.5	314200000N
p-Dichlorobenzene	N.D.	ug/l	0.5	103600000N

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Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303683

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2215
9 13 90

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05:59:27 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868439
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1450
P.O. 1041343
Rel.

OB-6 Grab Water Sample
Rockwell/10839-126

OB-6- SDG# RAS12-05 Unregulated VOC's (List 1)	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Bromobenzene	N.D.	ug/l	0.5	103700000N
Bromodichloromethane	N.D.	ug/l	0.5	314600000N
Bromoform	N.D.	ug/l	0.5	315200000N
Bromomethane	N.D.	ug/l	0.5	314800000N
Chlorobenzene	N.D.	ug/l	0.5	103800000N
Dibromochloromethane	N.D.	ug/l	0.5	314700000N
Chloroethane	N.D.	ug/l	0.5	103900000N
Chloroform	N.D.	ug/l	0.5	314500000N
Chloromethane	N.D.	ug/l	0.5	104000000N
o-Chlorotoluene	N.D.	ug/l	0.5	104100000N
p-Chlorotoluene	N.D.	ug/l	0.5	104200000N
Dibromomethane	N.D.	ug/l	0.5	107400000N
m-Dichlorobenzene	N.D.	ug/l	0.5	107500000N
o-Dichlorobenzene	N.D.	ug/l	0.5	107600000N
trans-1,2-Dichloroethylene	N.D.	ug/l	0.5	107700000N
cis-1,2-Dichloroethylene	1.0	ug/l	0.5	107800000N
Dichloromethane	N.D.	ug/l	0.5	107900000N
1,1-Dichloroethane	N.D.	ug/l	0.5	314900000N
1,1-Dichloropropene	N.D.	ug/l	0.5	108000000N
1,2-Dichloropropane	N.D.	ug/l	0.5	315000000N
1,3-Dichloropropane	N.D.	ug/l	0.5	108100000N
cis-1,3-Dichloropropene	N.D.	ug/l	0.5	108200000N
trans-1,3-Dichloropropene	N.D.	ug/l	0.5	453100000N
2,2-Dichloropropane	N.D.	ug/l	0.5	108300000N
Ethylbenzene	N.D.	ug/l	0.5	314400000N
Styrene	N.D.	ug/l	0.5	108400000N
1,1,2-Trichloroethane	N.D.	ug/l	0.5	315100000N
1,1,1,2-Tetrachloroethane	N.D.	ug/l	0.5	108500000N
1,1,2,2-Tetrachloroethane	N.D.	ug/l	0.5	315300000N
Tetrachloroethene	25.	ug/l	0.5	315400000N
1,2,3-Trichloropropane	N.D.	ug/l	0.5	108600000N
Toluene	N.D.	ug/l	0.5	314300000N
o-Xylene	N.D.	ug/l	0.5	315500000N
m-Xylene	N.D.	ug/l	0.5	315600000N
p-Xylene	N.D.	ug/l	0.5	315700000N

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Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

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Analysis Report

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05:59:27 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868439
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1450
P.O. 1041343
Rel.

OB-6 Grab Water Sample
Rockwell/10839-126

OB-6- SDG# RAS12-05	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Unregulated VOC's (List 1)			

Environmental Resources (#36-037) for water testing.

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Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

29

Lancaster Laboratories Inc.
2425 New Holland Pike
Lancaster PA 17601-5994
717-656-2301

AR303685

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2216
9 13 90

Analysis Report

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05:59:31 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868440
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1500
P.O. 1041343
Rel.

BR-6 Grab Water Sample
Rockwell/10839-126

B-R-6 SDG# RAS12-06

ANALYSIS	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Regulated Volatile Organics	attached		103211500
Unregulated VOC's (List 1)	attached		103306000

The analysis for the Regulated volatiles and the Unregulated volatiles list 1 was performed using EPA method 502.2 by DSM on 09/25/92.

Lancaster Laboratories is certified by Pennsylvania Department of Environmental Resources (#36-037) for water testing.

1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
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Questions? Contact Environmental Client Services at (717) 656-2301
439 04083 0.00 017500

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

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2425 New Holland Pike
Lancaster, PA 17601-5994
717/656-2301

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Analysis Report

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05:59:33 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868440
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1500
P.O. 1041343
Rel.

BR-6 Grab Water Sample
Rockwell/10839-126

B-R-6 SDG# RAS12-06 Regulated Volatile Organics	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Benzene	N.D.	ug/l	0.5	313600000N
Vinyl chloride	N.D.	ug/l	0.5	313700000N
1,1-Dichloroethene	N.D.	ug/l	0.5	313800000N
1,2-Dichloroethane	N.D.	ug/l	0.5	313900000N
1,1,1-Trichloroethane	N.D.	ug/l	0.5	314000000N
Carbon tetrachloride	N.D.	ug/l	0.5	314100000N
Trichloroethene	1.0	ug/l	0.5	314200000N
p-Dichlorobenzene	N.D.	ug/l	0.5	103600000N

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Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

31

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

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Analysis Report

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05:59:36 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868440
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1500
P.O. 1041343
Rel.

BR-6 Grab Water Sample
Rockwell/10839-126

B-R-6 SDG# RAS12-06 Unregulated VOC's (List 1)	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Bromobenzene	N.D.	ug/l	0.5	103700000N
Bromodichloromethane	N.D.	ug/l	0.5	314600000N
Bromoform	N.D.	ug/l	0.5	315200000N
Bromomethane	N.D.	ug/l	0.5	314800000N
Chlorobenzene	N.D.	ug/l	0.5	103800000N
Dibromochloromethane	N.D.	ug/l	0.5	314700000N
Chloroethane	N.D.	ug/l	0.5	103900000N
Chloroform	N.D.	ug/l	0.5	314500000N
Chloromethane	N.D.	ug/l	0.5	104000000N
o-Chlorotoluene	N.D.	ug/l	0.5	104100000N
p-Chlorotoluene	N.D.	ug/l	0.5	104200000N
Dibromomethane	N.D.	ug/l	0.5	107400000N
m-Dichlorobenzene	N.D.	ug/l	0.5	107500000N
o-Dichlorobenzene	N.D.	ug/l	0.5	107600000N
trans-1,2-Dichloroethylene	N.D.	ug/l	0.5	107700000N
cis-1,2-Dichloroethylene	1.1	ug/l	0.5	107800000N
Dichloromethane	N.D.	ug/l	0.5	107900000N
1,1-Dichloroethane	N.D.	ug/l	0.5	314900000N
1,1-Dichloropropene	N.D.	ug/l	0.5	108000000N
1,2-Dichloropropane	N.D.	ug/l	0.5	315000000N
1,3-Dichloropropane	N.D.	ug/l	0.5	108100000N
cis-1,3-Dichloropropene	N.D.	ug/l	0.5	108200000N
trans-1,3-Dichloropropene	N.D.	ug/l	0.5	453100000N
2,2-Dichloropropane	N.D.	ug/l	0.5	108300000N
Ethylbenzene	N.D.	ug/l	0.5	314400000N
Styrene	N.D.	ug/l	0.5	108400000N
1,1,2-Trichloroethane	N.D.	ug/l	0.5	315100000N
1,1,1,2-Tetrachloroethane	N.D.	ug/l	0.5	108500000N
1,1,2,2-Tetrachloroethane	N.D.	ug/l	0.5	315300000N
Tetrachloroethene	6.3	ug/l	0.5	315400000N
1,2,3-Trichloropropane	N.D.	ug/l	0.5	108600000N
Toluene	N.D.	ug/l	0.5	314300000N
o-Xylene	N.D.	ug/l	0.5	315500000N
m-Xylene	N.D.	ug/l	0.5	315600000N
p-Xylene	N.D.	ug/l	0.5	315700000N

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Questions? Contact Environmental
Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories Inc
2425 New Holland Pike
Lancaster PA 17601-5994
717-656-2301

AR303688

See reverse side for explanation of symbols and abbreviations

Analysis Report

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05:59:36 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868440
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1500
P.O. 1041343
Rel.

BR-6 Grab Water Sample
Rockwell/10839-126

B-R-6 SDG# RAS12-06

Unregulated VOC's (List 1)	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE

Environmental Resources (#36-037) for water testing.

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Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories Inc.
2425 New Holland Pike
Lancaster PA 17601-5994
717-656-2301

AR303689

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Analysis Report

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05:59:41 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868441
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1615
P.O. 1041343
Rel.

OB-8 Grab Water Sample
Rockwell/10839-126

OB-8- SDG# RAS12-07

ANALYSIS	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Regulated Volatile Organics	attached		103211500
Unregulated VOC's (List 1)	attached		103306000

The analysis for the Regulated volatiles and the Unregulated volatiles list 1 was performed using EPA method 502.2 by DWW on 09/25/92.

Due to dilution of the sample made necessary by the high level of trichloroethene, normal quantitation limits were not attained.

Lancaster Laboratories is certified by Pennsylvania Department of Environmental Resources (#36-037) for water testing.

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COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301
439 04083 0.00 017500

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303690

See reverse side for explanation of symbols and abbreviations

Analysis Report

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05:59:42 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868441
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1615
P.O. 1041343
Rel.

OB-8 Grab Water Sample
Rockwell/10839-126

OB-8- SDG# RAS12-07 Regulated Volatile Organics	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Benzene	N.D.	ug/l	3.	313600000N
Vinyl chloride	N.D.	ug/l	3.	313700000N
1,1-Dichloroethene	N.D.	ug/l	3.	313800000N
1,2-Dichloroethane	3.	ug/l	3.	313900000N
1,1,1-Trichloroethane	4.	ug/l	3.	314000000N
Carbon tetrachloride	N.D.	ug/l	3.	314100000N
Trichloroethene	120.	ug/l	3.	314200000N
p-Dichlorobenzene	N.D.	ug/l	3.	103600000N

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Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303691

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Analysis Report

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05:59:45 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868441
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1615
P.O. 1041343
Rel.

OB-8 Grab Water Sample
Rockwell/10839-126

OB-8- SDG# RAS12-07

Unregulated VOC's (List 1)	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Bromobenzene	N.D.	ug/l	3.	103700000N
Bromodichloromethane	N.D.	ug/l	3.	314600000N
Bromoform	N.D.	ug/l	3.	315200000N
Bromomethane	N.D.	ug/l	3.	314800000N
Chlorobenzene	N.D.	ug/l	3.	103800000N
Dibromochloromethane	N.D.	ug/l	3.	314700000N
Chloroethane	N.D.	ug/l	3.	103900000N
Chloroform	N.D.	ug/l	3.	314500000N
Chloromethane	N.D.	ug/l	3.	104000000N
o-Chlorotoluene	N.D.	ug/l	3.	104100000N
p-Chlorotoluene	N.D.	ug/l	3.	104200000N
Dibromomethane	N.D.	ug/l	3.	107400000N
m-Dichlorobenzene	N.D.	ug/l	3.	107500000N
`-Dichlorobenzene	N.D.	ug/l	3.	107600000N
rans-1,2-Dichloroethylene	N.D.	ug/l	3.	107700000N
cis-1,2-Dichloroethylene	61.	ug/l	3.	107800000N
Dichloromethane	< 3.	ug/l	3.	107900000N
1,1-Dichloroethane	6.	ug/l	3.	314900000N
1,1-Dichloropropene	N.D.	ug/l	3.	108000000N
1,2-Dichloropropane	N.D.	ug/l	3.	315000000N
1,3-Dichloropropane	N.D.	ug/l	3.	108100000N
cis-1,3-Dichloropropene	N.D.	ug/l	3.	108200000N
trans-1,3-Dichloropropene	N.D.	ug/l	3.	453100000N
2,2-Dichloropropane	N.D.	ug/l	3.	108300000N
Ethylbenzene	N.D.	ug/l	3.	314400000N
Styrene	N.D.	ug/l	3.	108400000N
1,1,2-Trichloroethane	N.D.	ug/l	3.	315100000N
1,1,1,2-Tetrachloroethane	N.D.	ug/l	3.	108500000N
1,1,2,2-Tetrachloroethane	N.D.	ug/l	3.	315300000N
Tetrachloroethene	N.D.	ug/l	3.	315400000N
1,2,3-Trichloropropane	N.D.	ug/l	3.	108600000N
Toluene	N.D.	ug/l	3.	314300000N
o-Xylene	N.D.	ug/l	3.	315500000N
m-Xylene	N.D.	ug/l	3.	315600000N
p-Xylene	N.D.	ug/l	3.	315700000N

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Questions? Contact Environmental
Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

AR303692

See reverse side for explanation of symbols and abbreviations

Analysis Report

Lancaster Laboratories
Where quality is a science.

05:59:45 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868441
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1615
P.O. 1041343
Rel.

OB-8 Grab Water Sample
Rockwell/10839-126

OB-8- SDG# RAS12-07	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Unregulated VOC's (List 1) Environmental Resources (#36-037) for water testing.			

1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
1 COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

37

Lancaster Laboratories, Inc
2425 New Holland Pike
Lancaster PA 17601-5994
717-656-2301

AR303693

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Analysis Report

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05:59:49 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868442
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1745
P.O. 1041343
Rel.

DBR-5 Grab Water Sample
Rockwell/10839-126

DBR-5 SDG# RAS12-08

ANALYSIS	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Regulated Volatile Organics	attached		103211500
Unregulated VOC's (List 1)	attached		103306000

The analysis for the Regulated volatiles and the Unregulated volatiles list 1 was performed using EPA method 502.2 by DWW on 09/25/92.

Due to dilution of the sample made necessary by the high level of trichloroethene, normal quantitation limits were not attained.

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COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301
439 04083 0.00 017500

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

28

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303694

Analysis Report

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05:59:51 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868442
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1745
P.O. 1041343
Rel.

DBR-5 Grab Water Sample
Rockwell/10839-126

DBR-5 SDG# RAS12-08 Regulated Volatile Organics	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Benzene	N.D.	ug/l	10.	313600000N
Vinyl chloride	N.D.	ug/l	10.	313700000N
1,1-Dichloroethene	N.D.	ug/l	10.	313800000N
1,2-Dichloroethane	N.D.	ug/l	10.	313900000N
1,1,1-Trichloroethane	N.D.	ug/l	10.	314000000N
Carbon tetrachloride	N.D.	ug/l	10.	314100000N
Trichloroethene*	750.	ug/l	10.	314200000N
p-Dichlorobenzene	N.D.	ug/l	10.	103600000N

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COPY TO Dames & Moore ATTN: Mr. Mike Edelman
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Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 Rt. 30 Howard Pike
Lancaster, PA 17601-5994
717-656-2301

AR303695

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2216

Analysis Report

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05:59:53 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868442
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1745
P.O. 1041343
Rel.

DBR-5 Grab Water Sample
Rockwell/10839-126

DBR-5 SDG# RAS12-08 Unregulated VOC's (List 1)	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Bromobenzene	N.D.	ug/l	10.	103700000N
Bromodichloromethane	N.D.	ug/l	10.	314600000N
Bromoform	N.D.	ug/l	10.	315200000N
Bromomethane	N.D.	ug/l	10.	314800000N
Chlorobenzene	N.D.	ug/l	10.	103800000N
Dibromochloromethane	N.D.	ug/l	10.	314700000N
Chloroethane	N.D.	ug/l	10.	103900000N
Chloroform	N.D.	ug/l	10.	314500000N
Chloromethane	N.D.	ug/l	10.	104000000N
o-Chlorotoluene	N.D.	ug/l	10.	104100000N
p-Chlorotoluene	N.D.	ug/l	10.	104200000N
Dibromomethane	N.D.	ug/l	10.	107400000N
m-Dichlorobenzene	N.D.	ug/l	10.	107500000N
o-Dichlorobenzene	N.D.	ug/l	10.	107600000N
rans-1,2-Dichloroethylene	N.D.	ug/l	10.	107700000N
cis-1,2-Dichloroethylene	330.	ug/l	10.	107800000N
Dichloromethane	N.D.	ug/l	10.	107900000N
1,1-Dichloroethane	N.D.	ug/l	10.	314900000N
1,1-Dichloropropene	N.D.	ug/l	10.	108000000N
1,2-Dichloropropane	N.D.	ug/l	10.	315000000N
1,3-Dichloropropane	N.D.	ug/l	10.	108100000N
cis-1,3-Dichloropropene	N.D.	ug/l	10.	108200000N
trans-1,3-Dichloropropene	N.D.	ug/l	10.	453100000N
2,2-Dichloropropane	N.D.	ug/l	10.	108300000N
Ethylbenzene	N.D.	ug/l	10.	314400000N
Styrene	N.D.	ug/l	10.	108400000N
1,1,2-Trichloroethane	N.D.	ug/l	10.	315100000N
1,1,1,2-Tetrachloroethane	N.D.	ug/l	10.	108500000N
1,1,2,2-Tetrachloroethane	N.D.	ug/l	10.	315300000N
Tetrachloroethene	N.D.	ug/l	10.	315400000N
1,2,3-Trichloropropane	N.D.	ug/l	10.	108600000N
Toluene	N.D.	ug/l	10.	314300000N
o-Xylene	N.D.	ug/l	10.	315500000N
m-Xylene	N.D.	ug/l	10.	315600000N
p-Xylene	N.D.	ug/l	10.	315700000N

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Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster PA 17601-5994
717-656-2301

AR303696

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Analysis Report

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05:59:53 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868442
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1745
P.O. 1041343
Rel.

DBR-5 Grab Water Sample
Rockwell/10839-126

DBR-5 SDG# RAS12-08	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Unregulated VOC's (List 1)			

Environmental Resources (#36-037) for water testing.

1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
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Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994

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Analysis Report

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05:59:58 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868443
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92

TB-1 Water Sample
Rockwell/10839-126

Time Collected
P.O. 1041343
Rel.

TB-1R SDG# RAS12-09

ANALYSIS	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Regulated Volatile Organics	attached		103211500
Unregulated VOC's (List 1)	attached		103306000

The analysis for the Regulated volatiles and the Unregulated volatiles list 1 was performed using EPA method 502.2 by JNS on 09/28/92.

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1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
1 COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301
439 04083 0.00 017500

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

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2425 New Holland Pike
Lancaster, PA 17601-5994

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06:00:00 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868443
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92

TB-1 Water Sample
Rockwell/10839-126

Time Collected
P.O. 1041343
Rel.

TB-1R SDG# RAS12-09 Regulated Volatile Organics	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Benzene	N.D.	ug/l	0.5	313600000N
Vinyl chloride	N.D.	ug/l	0.5	313700000N
1,1-Dichloroethene	N.D.	ug/l	0.5	313800000N
1,2-Dichloroethane	N.D.	ug/l	0.5	313900000N
1,1,1-Trichloroethane	N.D.	ug/l	0.5	314000000N
Carbon tetrachloride	N.D.	ug/l	0.5	314100000N
Trichloroethene	N.D.	ug/l	0.5	314200000N
p-Dichlorobenzene	N.D.	ug/l	0.5	103600000N

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Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories Inc.
2425 New Holland Pike
Lancaster PA 17601-5994

AR303699

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Analysis Report

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06:00:03 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868443
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92

TB-1 Water Sample
Rockwell/10839-126

Time Collected
P.O. 1041343
Rel.

TB-1R SDG# RAS12-09 Unregulated VOC's (List 1)	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Bromobenzene	N.D.	ug/l	0.5	103700000N
Bromodichloromethane	N.D.	ug/l	0.5	314600000N
Bromoform	N.D.	ug/l	0.5	315200000N
Bromomethane	N.D.	ug/l	0.5	314800000N
Chlorobenzene	N.D.	ug/l	0.5	103800000N
Dibromochloromethane	N.D.	ug/l	0.5	314700000N
Chloroethane	N.D.	ug/l	0.5	103900000N
Chloroform	N.D.	ug/l	0.5	314500000N
Chloromethane	N.D.	ug/l	0.5	104000000N
o-Chlorotoluene	N.D.	ug/l	0.5	104100000N
p-Chlorotoluene	N.D.	ug/l	0.5	104200000N
Dibromomethane	N.D.	ug/l	0.5	107400000N
m-Dichlorobenzene	N.D.	ug/l	0.5	107500000N
o-Dichlorobenzene	N.D.	ug/l	0.5	107600000N
trans-1,2-Dichloroethylene	N.D.	ug/l	0.5	107700000N
cis-1,2-Dichloroethylene	N.D.	ug/l	0.5	107800000N
Dichloromethane	1.7	ug/l	0.5	107900000N
1,1-Dichloroethane	N.D.	ug/l	0.5	314900000N
1,1-Dichloropropene	N.D.	ug/l	0.5	108000000N
1,2-Dichloropropane	N.D.	ug/l	0.5	315000000N
1,3-Dichloropropane	N.D.	ug/l	0.5	108100000N
cis-1,3-Dichloropropene	N.D.	ug/l	0.5	108200000N
trans-1,3-Dichloropropene	N.D.	ug/l	0.5	453100000N
2,2-Dichloropropane	N.D.	ug/l	0.5	108300000N
Ethylbenzene	N.D.	ug/l	0.5	314400000N
Styrene	N.D.	ug/l	0.5	108400000N
1,1,2-Trichloroethane	N.D.	ug/l	0.5	315100000N
1,1,1,2-Tetrachloroethane	N.D.	ug/l	0.5	108500000N
1,1,2,2-Tetrachloroethane	N.D.	ug/l	0.5	315300000N
Tetrachloroethene	N.D.	ug/l	0.5	315400000N
1,2,3-Trichloropropane	N.D.	ug/l	0.5	108600000N
Toluene	N.D.	ug/l	0.5	314300000N
o-Xylene	N.D.	ug/l	0.5	315500000N
m-Xylene	N.D.	ug/l	0.5	315600000N
p-Xylene	N.D.	ug/l	0.5	315700000N

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Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

44

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303700

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Analysis Report

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06:00:03 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868443
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92

TB-1 Water Sample
Rockwell/10839-126

Time Collected
P.O. 1041343
Rel.

TB-1R SDG# RAS12-09	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Unregulated VOC's (List 1)			

Environmental Resources (#36-037) for water testing.

1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
1 COPY TO Data Package Group

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Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

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Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303701

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Analysis Report

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06:00:07 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868444
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1045
P.O. 1041343
Rel.

OB-4 Dup. Grab Water Sample
Rockwell/10839-126

OB-4D SDG# RAS12-10

ANALYSIS	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Regulated Volatile Organics	attached		103211500
Unregulated VOC's (List 1)	attached		103306000

The analysis for the Regulated volatiles and the Unregulated volatiles list 1 was performed using EPA method 502.2 by DWW on 09/25/92.

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1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
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Questions? Contact Environmental Client Services at (717) 656-2301
439 04083 0.00 017500

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

46

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303702

See reverse side for explanation of symbols and abbreviations.

Analysis Report

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06:00:09 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868444
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1045
P.O. 1041343
Rel.

OB-4 Dup. Grab Water Sample
Rockwell/10839-126

OB-4D SDG# RAS12-10 Regulated Volatile Organics	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Benzene	N.D.	ug/l	0.5	313600000N
Vinyl chloride	N.D.	ug/l	0.5	313700000N
1,1-Dichloroethene	N.D.	ug/l	0.5	313800000N
1,2-Dichloroethane	N.D.	ug/l	0.5	313900000N
1,1,1-Trichloroethane	N.D.	ug/l	0.5	314000000N
Carbon tetrachloride	N.D.	ug/l	0.5	314100000N
Trichloroethene	N.D.	ug/l	0.5	314200000N
p-Dichlorobenzene	N.D.	ug/l	0.5	103600000N

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Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

47

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303703

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Analysis Report

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06:00:12 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868444
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1045
P.O. 1041343
Rel.

OB-4 Dup. Grab Water Sample
Rockwell/10839-126

OB-4D SDG# RAS12-10 Unregulated VOC's (List 1)	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Bromobenzene	N.D.	ug/l	0.5	103700000N
Bromodichloromethane	N.D.	ug/l	0.5	314600000N
Bromoform	N.D.	ug/l	0.5	315200000N
Bromomethane	N.D.	ug/l	0.5	314800000N
Chlorobenzene	N.D.	ug/l	0.5	103800000N
Dibromochloromethane	N.D.	ug/l	0.5	314700000N
Chloroethane	N.D.	ug/l	0.5	103900000N
Chloroform	N.D.	ug/l	0.5	314500000N
Chloromethane	N.D.	ug/l	0.5	104000000N
o-Chlorotoluene	N.D.	ug/l	0.5	104100000N
p-Chlorotoluene	N.D.	ug/l	0.5	104200000N
Dibromomethane	N.D.	ug/l	0.5	107400000N
m-Dichlorobenzene	N.D.	ug/l	0.5	107500000N
o-Dichlorobenzene	N.D.	ug/l	0.5	107600000N
trans-1,2-Dichloroethylene	N.D.	ug/l	0.5	107700000N
cis-1,2-Dichloroethylene	N.D.	ug/l	0.5	107800000N
Dichloromethane	N.D.	ug/l	0.5	107900000N
1,1-Dichloroethane	N.D.	ug/l	0.5	314900000N
1,1-Dichloropropene	N.D.	ug/l	0.5	108000000N
1,2-Dichloropropane	N.D.	ug/l	0.5	315000000N
1,3-Dichloropropane	N.D.	ug/l	0.5	108100000N
cis-1,3-Dichloropropene	N.D.	ug/l	0.5	108200000N
trans-1,3-Dichloropropene	N.D.	ug/l	0.5	453100000N
2,2-Dichloropropane	N.D.	ug/l	0.5	108300000N
Ethylbenzene	N.D.	ug/l	0.5	314400000N
Styrene	N.D.	ug/l	0.5	108400000N
1,1,2-Trichloroethane	N.D.	ug/l	0.5	315100000N
1,1,1,2-Tetrachloroethane	N.D.	ug/l	0.5	108500000N
1,1,2,2-Tetrachloroethane	N.D.	ug/l	0.5	315300000N
Tetrachloroethene	N.D.	ug/l	0.5	315400000N
1,2,3-Trichloropropane	N.D.	ug/l	0.5	108600000N
Toluene	N.D.	ug/l	0.5	314300000N
o-Xylene	N.D.	ug/l	0.5	315500000N
m-Xylene	N.D.	ug/l	0.5	315600000N
p-Xylene	N.D.	ug/l	0.5	315700000N

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Questions? Contact Environmental
Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303704

See reverse side for explanation of symbols and abbreviations

Analysis Report

Lancaster Laboratories
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06:00:12 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868444
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1045
P.O. 1041343
Rel.

OB-4 Dup. Grab Water Sample
Rockwell/10839-126

OB-4D SDG# RAS12-10	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Unregulated VOC's (List 1)			

Environmental Resources (#36-037) for water testing.

1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
1 COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster PA 17601-5994
717-656-2301

AR303705

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Analysis Report

Lancaster Laboratories
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06:00:16 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868445
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/14/92 by JV
Time Collected 1130
P.O. 1041343
Rel.

DBR-12D Grab Water Sample
Rockwell/10839-126

12D-- SDG# RAS12-11

ANALYSIS	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Regulated Volatile Organics	attached		103211500
Unregulated VOC's (List 1)	attached		103306000

The analysis for the Regulated volatiles and the Unregulated volatiles list 1 was performed using EPA method 502.2 by DWW on 09/25/92.

Due to dilution of the sample made necessary by the high level of trichloroethene, normal quantitation limits were not attained.

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1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301
439 04083 0.00 017500

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

50

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303706

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06:00:18 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868445
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/14/92 by JV
Time Collected 1130
P.O. 1041343
Rel.

DBR-12D Grab Water Sample
Rockwell/10839-126

12D-- SDG# RAS12-11 Regulated Volatile Organics	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Benzene	N.D.	ug/l	3.	313600000N
Vinyl chloride	N.D.	ug/l	3.	313700000N
1,1-Dichloroethene	N.D.	ug/l	3.	313800000N
1,2-Dichloroethane	N.D.	ug/l	3.	313900000N
1,1,1-Trichloroethane	N.D.	ug/l	3.	314000000N
Carbon tetrachloride	N.D.	ug/l	3.	314100000N
Trichloroethene	270.	ug/l	5.	314200000N
p-Dichlorobenzene	N.D.	ug/l	3.	103600000N

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1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
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Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

AR303707

Analysis Report

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06:00:20 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868445
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/14/92 by JV
Time Collected 1130
P.O. 1041343
Rel.

DBR-12D Grab Water Sample
Rockwell/10839-126

12D-- SDG# RAS12-11 Unregulated VOC's (List 1)	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Bromobenzene	N.D.	ug/l	3.	103700000N
Bromodichloromethane	N.D.	ug/l	3.	314600000N
Bromoform	N.D.	ug/l	3.	315200000N
Bromomethane	N.D.	ug/l	3.	314800000N
Chlorobenzene	N.D.	ug/l	3.	103800000N
Dibromochloromethane	N.D.	ug/l	3.	314700000N
Chloroethane	N.D.	ug/l	3.	103900000N
Chloroform	N.D.	ug/l	3.	314500000N
Chloromethane	N.D.	ug/l	3.	104000000N
o-Chlorotoluene	N.D.	ug/l	3.	104100000N
p-Chlorotoluene	N.D.	ug/l	3.	104200000N
Dibromomethane	N.D.	ug/l	3.	107400000N
m-Dichlorobenzene	N.D.	ug/l	3.	107500000N
o-Dichlorobenzene	N.D.	ug/l	3.	107600000N
trans-1,2-Dichloroethylene	3.	ug/l	3.	107700000N
cis-1,2-Dichloroethylene	64.	ug/l	3.	107800000N
Dichloromethane	< 3.	ug/l	3.	107900000N
1,1-Dichloroethane	N.D.	ug/l	3.	314900000N
1,1-Dichloropropene	N.D.	ug/l	3.	108000000N
1,2-Dichloropropane	N.D.	ug/l	3.	315000000N
1,3-Dichloropropane	N.D.	ug/l	3.	108100000N
cis-1,3-Dichloropropene	N.D.	ug/l	3.	108200000N
trans-1,3-Dichloropropene	N.D.	ug/l	3.	453100000N
2,2-Dichloropropane	N.D.	ug/l	3.	108300000N
Ethylbenzene	N.D.	ug/l	3.	314400000N
Styrene	N.D.	ug/l	3.	108400000N
1,1,2-Trichloroethane	N.D.	ug/l	3.	315100000N
1,1,1,2-Tetrachloroethane	N.D.	ug/l	3.	108500000N
1,1,2,2-Tetrachloroethane	N.D.	ug/l	3.	315300000N
Tetrachloroethene	N.D.	ug/l	3.	315400000N
1,2,3-Trichloropropane	N.D.	ug/l	3.	108600000N
Toluene	N.D.	ug/l	3.	314300000N
o-Xylene	N.D.	ug/l	3.	315500000N
m-Xylene	N.D.	ug/l	3.	315600000N
p-Xylene	N.D.	ug/l	3.	315700000N

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Questions? Contact Environmental
Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

52

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2300

AR303708

See reverse side for explanation of symbols and abbreviations

Analysis Report

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06:00:20 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868445
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/14/92 by JV
Time Collected 1130
P.O. 1041343
Rel.

DBR-12D Grab Water Sample
Rockwell/10839-126

12D-- SDG# RAS12-11	RESULT	LIMIT OF	
Unregulated VOC's (List 1)	AS RECEIVED	QUANTITATION	LAB CODE
Environmental Resources (#36-037) for water testing.			

1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
1 COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303709

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Analysis Report

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06:00:25 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868446
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/14/92 by JV
Time Collected 1205
P.O. 1041343
Rel.

DBR-12S Grab Water Sample
Rockwell/10839-126

12S-- SDG# RAS12-12 ANALYSIS	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Regulated Volatile Organics	attached		103211500
Unregulated VOC's (List 1)	attached		103306000

The analysis for the Regulated volatiles and the Unregulated volatiles list 1 was performed using EPA method 502.2 by DWW on 09/25/92.

Due to dilution of the sample made necessary by the high level of trichloroethene, normal quantitation limits were not attained.

Lancaster Laboratories is certified by Pennsylvania Department of Environmental Resources (#36-037) for water testing.

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Questions? Contact Environmental Client Services at (717) 656-2301
439 04083 0.00 017500

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303710

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*2216
9 13 90

Analysis Report

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06:00:27 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868446
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/14/92 by JV
Time Collected 1205
P.O. 1041343
Rel.

DBR-12S Grab Water Sample
Rockwell/10839-126

12S-- SDG# RAS12-12 Regulated Volatile Organics	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Benzene	N.D.	ug/l	30.	313600000N
Vinyl chloride	N.D.	ug/l	30.	313700000N
1,1-Dichloroethene	N.D.	ug/l	30.	313800000N
1,2-Dichloroethane	N.D.	ug/l	30.	313900000N
1,1,1-Trichloroethane	N.D.	ug/l	30.	314000000N
Carbon tetrachloride	N.D.	ug/l	30.	314100000N
Trichloroethene	1,400.	ug/l	30.	314200000N
p-Dichlorobenzene	N.D.	ug/l	30.	103600000N

Lancaster Laboratories is certified by Pennsylvania Department of Environmental Resources (#36-037) for water testing.

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Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303711

See reverse side for explanation of symbols and abbreviations

* 2216
9 13 90

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06:00:30 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868446
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/14/92 by JV
Time Collected 1205
P.O. 1041343
Rel.

DBR-12S Grab Water Sample
Rockwell/10839-126

12S-- SDG# RAS12-12 Unregulated VOC's (List 1)	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Bromobenzene	N.D.	ug/l	30.	103700000N
Bromodichloromethane	N.D.	ug/l	30.	314600000N
Bromoform	N.D.	ug/l	30.	315200000N
Bromomethane	N.D.	ug/l	30.	314800000N
Chlorobenzene	N.D.	ug/l	30.	103800000N
Dibromochloromethane	N.D.	ug/l	30.	314700000N
Chloroethane	N.D.	ug/l	30.	103900000N
Chloroform	N.D.	ug/l	30.	314500000N
Chloromethane	N.D.	ug/l	30.	104000000N
o-Chlorotoluene	N.D.	ug/l	30.	104100000N
p-Chlorotoluene	N.D.	ug/l	30.	104200000N
Dibromomethane	N.D.	ug/l	30.	107400000N
m-Dichlorobenzene	N.D.	ug/l	30.	107500000N
o-Dichlorobenzene	N.D.	ug/l	30.	107600000N
rans-1,2-Dichloroethylene	N.D.	ug/l	30.	107700000N
cis-1,2-Dichloroethylene	500.	ug/l	30.	107800000N
Dichloromethane	N.D.	ug/l	30.	107900000N
1,1-Dichloroethane	N.D.	ug/l	30.	314900000N
1,1-Dichloropropene	N.D.	ug/l	30.	108000000N
1,2-Dichloropropane	N.D.	ug/l	30.	315000000N
1,3-Dichloropropane	N.D.	ug/l	30.	108100000N
cis-1,3-Dichloropropene	N.D.	ug/l	30.	108200000N
trans-1,3-Dichloropropene	N.D.	ug/l	30.	453100000N
2,2-Dichloropropane	N.D.	ug/l	30.	108300000N
Ethylbenzene	N.D.	ug/l	30.	314400000N
Styrene	N.D.	ug/l	30.	108400000N
1,1,2-Trichloroethane	N.D.	ug/l	30.	315100000N
1,1,1,2-Tetrachloroethane	N.D.	ug/l	30.	108500000N
1,1,2,2-Tetrachloroethane	N.D.	ug/l	30.	315300000N
Tetrachloroethene	N.D.	ug/l	30.	315400000N
1,2,3-Trichloropropane	N.D.	ug/l	30.	108600000N
Toluene	N.D.	ug/l	30.	314300000N
o-Xylene	N.D.	ug/l	30.	315500000N
m-Xylene	N.D.	ug/l	30.	315600000N
p-Xylene	N.D.	ug/l	30.	315700000N

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Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

56

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303712

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Analysis Report

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06:00:30 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868446
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/14/92 by JV
Time Collected 1205
P.O. 1041343
Rel.

DBR-12S Grab Water Sample
Rockwell/10839-126

12S-- SDG# RAS12-12	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Unregulated VOC's (List 1) Environmental Resources (#36-037) for water testing.			

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Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by: 57

Judy A. Colello, B.S.
Group Leader

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2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303713

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2216

Analysis Report

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06:00:34 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868447
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/14/92 by JV
Time Collected 1200
P.O. 1041343
Rel.

BR-5 Grab Water Sample
Rockwell/10839-126

BR-5- SDG# RAS12-13

ANALYSIS	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Regulated Volatile Organics	attached		103211500
Unregulated VOC's (List 1)	attached		103306000

The analysis for the Regulated volatiles and the Unregulated volatiles list 1 was performed using EPA method 502.2 by JNS on 09/28/92.

Due to dilution of the sample made necessary by the high level of trichloroethene, normal quantitation limits were not attained.

Lancaster Laboratories is certified by Pennsylvania Department of Environmental Resources (#36-037) for water testing.

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Questions? Contact Environmental Client Services at (717) 656-2301
439 04083 0.00 017500

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

58

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303714

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2216
9 13 90

Analysis Report

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06:00:36 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868447
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/14/92 by JV
Time Collected 1200
P.O. 1041343
Rel.

BR-5 Grab Water Sample
Rockwell/10839-126

BR-5- SDG# RAS12-13 Regulated Volatile Organics	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Benzene	N.D.	ug/l	5.	313600000N
Vinyl chloride	N.D.	ug/l	5.	313700000N
1,1-Dichloroethene	N.D.	ug/l	5.	313800000N
1,2-Dichloroethane	N.D.	ug/l	5.	313900000N
1,1,1-Trichloroethane	N.D.	ug/l	5.	314000000N
Carbon tetrachloride	N.D.	ug/l	5.	314100000N
Trichloroethene	290.	ug/l	5.	314200000N
p-Dichlorobenzene	N.D.	ug/l	5.	103600000N

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Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303715

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*2216

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06:00:38 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868447
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/14/92 by JV
Time Collected 1200
P.O. 1041343
Rel.

BR-5 Grab Water Sample
Rockwell/10839-126

BR-5- SDG# RAS12-13 Unregulated VOC's (List 1)	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Bromobenzene	N.D.	ug/l	5.	103700000N
Bromodichloromethane	N.D.	ug/l	5.	314600000N
Bromoform	N.D.	ug/l	5.	315200000N
Bromomethane	N.D.	ug/l	5.	314800000N
Chlorobenzene	N.D.	ug/l	5.	103800000N
Dibromochloromethane	N.D.	ug/l	5.	314700000N
Chloroethane	N.D.	ug/l	5.	103900000N
Chloroform	N.D.	ug/l	5.	314500000N
Chloromethane	N.D.	ug/l	5.	104000000N
o-Chlorotoluene	N.D.	ug/l	5.	104100000N
p-Chlorotoluene	N.D.	ug/l	5.	104200000N
Dibromomethane	N.D.	ug/l	5.	107400000N
m-Dichlorobenzene	N.D.	ug/l	5.	107500000N
o-Dichlorobenzene	N.D.	ug/l	5.	107600000N
rans-1,2-Dichloroethylene	N.D.	ug/l	5.	107700000N
cis-1,2-Dichloroethylene	78.	ug/l	5.	107800000N
Dichloromethane	< 5.	ug/l	5.	107900000N
1,1-Dichloroethane	< 5.	ug/l	5.	314900000N
1,1-Dichloropropene	N.D.	ug/l	5.	108000000N
1,2-Dichloropropane	N.D.	ug/l	5.	315000000N
1,3-Dichloropropane	N.D.	ug/l	5.	108100000N
cis-1,3-Dichloropropene	N.D.	ug/l	5.	108200000N
trans-1,3-Dichloropropene	N.D.	ug/l	5.	453100000N
2,2-Dichloropropane	N.D.	ug/l	5.	108300000N
Ethylbenzene	N.D.	ug/l	5.	314400000N
Styrene	N.D.	ug/l	5.	108400000N
1,1,2-Trichloroethane	N.D.	ug/l	5.	315100000N
1,1,1,2-Tetrachloroethane	N.D.	ug/l	5.	108500000N
1,1,2,2-Tetrachloroethane	N.D.	ug/l	5.	315300000N
Tetrachloroethene	N.D.	ug/l	5.	315400000N
1,2,3-Trichloropropane	N.D.	ug/l	5.	108600000N
Toluene	N.D.	ug/l	5.	314300000N
o-Xylene	N.D.	ug/l	5.	315500000N
m-Xylene	N.D.	ug/l	5.	315600000N
p-Xylene	N.D.	ug/l	5.	315700000N

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Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

60

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303716

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Analysis Report

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06:00:38 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868447
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/14/92 by JV
Time Collected 1200
P.O. 1041343
Rel.

BR-5 Grab Water Sample
Rockwell/10839-126

BR-5- SDG# RAS12-13	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Unregulated VOC's (List 1)			

Environmental Resources (#36-037) for water testing.

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Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

61

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303717

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2216

Analysis Report

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06:00:42 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868448
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1505
P.O. 1041343
Rel.

BR-6 Unspiked Grab Water Sample
Rockwell/10839-126

BR-6- SDG# RAS12-14BK

ANALYSIS	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Regulated Volatile Organics	attached		103211500
Unregulated VOC's (List 1)	attached		103306000

The analysis for the Regulated volatiles and the Unregulated volatiles list 1 was performed using EPA method 502.2 by DSM on 09/24/92.

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1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
1 COPY TO Data Package Group

Questions? Contact Environmental Client Services at (717) 656-2301
439 04083 0.00 017500

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

E2

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303718

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Analysis Report

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06:00:44 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868448
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1505
P.O. 1041343
Rel.

BR-6 Unspiked Grab Water Sample
Rockwell/10839-126

BR-6- SDG# RAS12-14BK Regulated Volatile Organics	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Benzene	N.D.	ug/l	0.5	313600000N
Vinyl chloride	N.D.	ug/l	0.5	313700000N
1,1-Dichloroethene	N.D.	ug/l	0.5	313800000N
1,2-Dichloroethane	N.D.	ug/l	0.5	313900000N
1,1,1-Trichloroethane	N.D.	ug/l	0.5	314000000N
Carbon tetrachloride	N.D.	ug/l	0.5	314100000N
Trichloroethene	0.9	ug/l	0.5	314200000N
p-Dichlorobenzene	N.D.	ug/l	0.5	103600000N

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1 COPY TO Dames & Moore ATTN: Mr. Mike Edelman
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Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

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Analysis Report

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06:00:47 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868448
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1505
P.O. 1041343
Rel.

BR-6 Unspiked Grab Water Sample
Rockwell/10839-126

BR-6- SDG# RAS12-14BK Unregulated VOC's (List 1)	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Bromobenzene	N.D.	ug/l	0.5	103700000N
Bromodichloromethane	N.D.	ug/l	0.5	314600000N
Bromoform	N.D.	ug/l	0.5	315200000N
Bromomethane	N.D.	ug/l	0.5	314800000N
Chlorobenzene	N.D.	ug/l	0.5	103800000N
Dibromochloromethane	N.D.	ug/l	0.5	314700000N
Chloroethane	N.D.	ug/l	0.5	103900000N
Chloroform	N.D.	ug/l	0.5	314500000N
Chloromethane	N.D.	ug/l	0.5	104000000N
o-Chlorotoluene	N.D.	ug/l	0.5	104100000N
p-Chlorotoluene	N.D.	ug/l	0.5	104200000N
Dibromomethane	N.D.	ug/l	0.5	107400000N
m-Dichlorobenzene	N.D.	ug/l	0.5	107500000N
o-Dichlorobenzene	N.D.	ug/l	0.5	107600000N
trans-1,2-Dichloroethylene	N.D.	ug/l	0.5	107700000N
cis-1,2-Dichloroethylene	1.1	ug/l	0.5	107800000N
Dichloromethane	< 0.5	ug/l	0.5	107900000N
1,1-Dichloroethane	N.D.	ug/l	0.5	314900000N
1,1-Dichloropropene	N.D.	ug/l	0.5	108000000N
1,2-Dichloropropane	N.D.	ug/l	0.5	315000000N
1,3-Dichloropropane	N.D.	ug/l	0.5	108100000N
cis-1,3-Dichloropropene	N.D.	ug/l	0.5	108200000N
trans-1,3-Dichloropropene	N.D.	ug/l	0.5	453100000N
2,2-Dichloropropane	N.D.	ug/l	0.5	108300000N
Ethylbenzene	N.D.	ug/l	0.5	314400000N
Styrene	N.D.	ug/l	0.5	108400000N
1,1,2-Trichloroethane	N.D.	ug/l	0.5	315100000N
1,1,1,2-Tetrachloroethane	N.D.	ug/l	0.5	108500000N
1,1,2,2-Tetrachloroethane	N.D.	ug/l	0.5	315300000N
Tetrachloroethene	5.2	ug/l	0.5	315400000N
1,2,3-Trichloropropane	N.D.	ug/l	0.5	108600000N
Toluene	N.D.	ug/l	0.5	314300000N
o-Xylene	N.D.	ug/l	0.5	315500000N
m-Xylene	N.D.	ug/l	0.5	315600000N
p-Xylene	N.D.	ug/l	0.5	315700000N

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Questions? Contact Environmental
Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

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9 13 90

Analysis Report

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06:00:47 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868448
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1505
P.O. 1041343
Rel.

BR-6 Unspiked Grab Water Sample
Rockwell/10839-126

BR-6- SDG# RAS12-14BK	RESULT	LIMIT OF	
Unregulated VOC's (List 1)	AS RECEIVED	QUANTITATION	LAB CODE

Environmental Resources (#36-037) for water testing.

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Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

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Analysis Report

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06:00:51 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868449
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1505
P.O. 1041343
Rel.

BR-6 Matrix Spike Grab Water Sample
Rockwell/10839-126

BR-6- SDG# RAS12-14MS ANALYSIS	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Regulated Volatile Organics	attached		103211500
Unregulated VOC's (List 1)	attached		103306000

The analysis for the Regulated volatiles and the Unregulated volatiles list 1 was performed using EPA method 502.2 by KLB on 09/24/92.

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439 04083 0.00 017500

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Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

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2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

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Analysis Report

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06:00:53 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868449
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1505
P.O. 1041343
Rel.

BR-6 Matrix Spike Grab Water Sample
Rockwell/10839-126

BR-6- SDG# RAS12-14MS Regulated Volatile Organics	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Benzene	8.3	ug/l	0.5	313600000N
Vinyl chloride	21.	ug/l	0.5	313700000N
1,1-Dichloroethene	9.1	ug/l	0.5	313800000N
1,2-Dichloroethane	8.9	ug/l	0.5	313900000N
1,1,1-Trichloroethane	8.8	ug/l	0.5	314000000N
Carbon tetrachloride	9.3	ug/l	0.5	314100000N
Trichloroethene	9.6	ug/l	0.5	314200000N
p-Dichlorobenzene	9.7	ug/l	0.5	103600000N

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Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

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06:00:55 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868449
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1505
P.O. 1041343
Rel.

BR-6 Matrix Spike Grab Water Sample
Rockwell/10839-126

BR-6- SDG# RAS12-14MS Unregulated VOC's (List 1)	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Bromobenzene	N.D.	ug/l	0.5	103700000N
Bromodichloromethane	8.9	ug/l	0.5	314600000N
Bromoform	8.7	ug/l	0.5	315200000N
Bromomethane	21.	ug/l	0.5	314800000N
Chlorobenzene	9.1	ug/l	0.5	103800000N
Dibromochloromethane	8.2	ug/l	0.5	314700000N
Chloroethane	21.	ug/l	0.5	103900000N
Chloroform	8.6	ug/l	0.5	314500000N
Chloromethane	21.	ug/l	0.5	104000000N
o-Chlorotoluene	8.9	ug/l	0.5	104100000N
p-Chlorotoluene	9.0	ug/l	0.5	104200000N
Dibromomethane	N.D.	ug/l	0.5	107400000N
m-Dichlorobenzene	8.8	ug/l	0.5	107500000N
o-Dichlorobenzene	9.5	ug/l	0.5	107600000N
trans-1,2-Dichloroethylene	8.7	ug/l	0.5	107700000N
cis-1,2-Dichloroethylene	10.	ug/l	0.5	107800000N
Dichloromethane	8.4	ug/l	0.5	107900000N
1,1-Dichloroethane	9.2	ug/l	0.5	314900000N
1,1-Dichloropropene	N.D.	ug/l	0.5	108000000N
1,2-Dichloropropane	8.5	ug/l	0.5	315000000N
1,3-Dichloropropane	N.D.	ug/l	0.5	108100000N
cis-1,3-Dichloropropene	11.	ug/l	0.5	108200000N
trans-1,3-Dichloropropene	7.0	ug/l	0.5	453100000N
2,2-Dichloropropane	N.D.	ug/l	0.5	108300000N
Ethylbenzene	8.5	ug/l	0.5	314400000N
Styrene	8.7	ug/l	0.5	108400000N
1,1,2-Trichloroethane	8.7	ug/l	0.5	315100000N
1,1,1,2-Tetrachloroethane	8.9	ug/l	0.5	108500000N
1,1,2,2-Tetrachloroethane	8.7	ug/l	0.5	315300000N
Tetrachloroethene	15.	ug/l	0.5	315400000N
1,2,3-Trichloropropane	8.0	ug/l	0.5	108600000N
Toluene	8.1	ug/l	0.5	314300000N
o-Xylene	N.D.	ug/l	0.5	315500000N
m-Xylene	8.1	ug/l	0.5	315600000N
p-Xylene	N.D.	ug/l	0.5	315700000N

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Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

68

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster PA 17601-5994
717-656-2301

AR303724

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Analysis Report

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06:00:55 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868449
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1505
P.O. 1041343
Rel.

BR-6 Matrix Spike Grab Water Sample
Rockwell/10839-126

BR-6- SDG# RAS12-14MS	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Unregulated VOC's (List 1)			

Environmental Resources (#36-037) for water testing.

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Judy A. Colello, B.S.
Group Leader

JT 69

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Lancaster, PA 17601-5994
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*2216
9 13 90

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06:01:01 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868450
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1505
P.O. 1041343
Rel.

BR-6 Matrix Spike Duplicate Grab Water Sample
Rockwell/10839-126

BR-6- SDG# RAS12-14MS ANALYSIS	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Regulated Volatile Organics	attached		103211500
Unregulated VOC's (List 1)	attached		103306000

The analysis for the Regulated volatiles and the Unregulated volatiles list 1 was performed using EPA method 502.2 by KLB on 09/24/92.

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Questions? Contact Environmental Client Services at (717) 656-2301
439 04083 0.00 017500

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

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2216
9 13 90

Analysis Report

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06:01:03 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868450
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1505
P.O. 1041343
Rel.

BR-6 Matrix Spike Duplicate Grab Water Sample
Rockwell/10839-126

BR-6- SDG# RAS12-14MS Regulated Volatile Organics	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Benzene	8.8	ug/l	0.5	313600000N
Vinyl chloride	17.	ug/l	0.5	313700000N
1,1-Dichloroethene	8.7	ug/l	0.5	313800000N
1,2-Dichloroethane	9.1	ug/l	0.5	313900000N
1,1,1-Trichloroethane	8.8	ug/l	0.5	314000000N
Carbon tetrachloride	9.4	ug/l	0.5	314100000N
Trichloroethene	9.8	ug/l	0.5	314200000N
p-Dichlorobenzene	10.	ug/l	0.5	103600000N

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Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

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2425 New Holland Pike
Lancaster PA 17601-5994
717-656-2301

AR303727

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06:01:05 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868450
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1505
P.O. 1041343
Rel.

BR-6 Matrix Spike Duplicate Grab Water Sample
Rockwell/10839-126

BR-6- SDG# RAS12-14MS Unregulated VOC's (List 1)	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Bromobenzene	N.D.	ug/l	0.5	103700000N
Bromodichloromethane	9.2	ug/l	0.5	314600000N
Bromoform	8.7	ug/l	0.5	315200000N
Bromomethane	19.	ug/l	0.5	314800000N
Chlorobenzene	9.1	ug/l	0.5	103800000N
Dibromochloromethane	8.1	ug/l	0.5	314700000N
Chloroethane	19.	ug/l	0.5	103900000N
Chloroform	8.5	ug/l	0.5	314500000N
Chloromethane	17.	ug/l	0.5	104000000N
o-Chlorotoluene	9.1	ug/l	0.5	104100000N
p-Chlorotoluene	9.3	ug/l	0.5	104200000N
Dibromomethane	N.D.	ug/l	0.5	107400000N
m-Dichlorobenzene	9.2	ug/l	0.5	107500000N
o-Dichlorobenzene	9.9	ug/l	0.5	107600000N
trans-1,2-Dichloroethylene	8.6	ug/l	0.5	107700000N
cis-1,2-Dichloroethylene	9.8	ug/l	0.5	107800000N
Dichloromethane	8.1	ug/l	0.5	107900000N
1,1-Dichloroethane	9.0	ug/l	0.5	314900000N
1,1-Dichloropropene	N.D.	ug/l	0.5	108000000N
1,2-Dichloropropane	8.7	ug/l	0.5	315000000N
1,3-Dichloropropane	N.D.	ug/l	0.5	108100000N
cis-1,3-Dichloropropene	11.	ug/l	0.5	108200000N
trans-1,3-Dichloropropene	7.1	ug/l	0.5	453100000N
2,2-Dichloropropane	N.D.	ug/l	0.5	108300000N
Ethylbenzene	9.0	ug/l	0.5	314400000N
Styrene	9.3	ug/l	0.5	108400000N
1,1,2-Trichloroethane	8.9	ug/l	0.5	315100000N
1,1,1,2-Tetrachloroethane	8.9	ug/l	0.5	108500000N
1,1,2,2-Tetrachloroethane	9.1	ug/l	0.5	315300000N
Tetrachloroethene	15.	ug/l	0.5	315400000N
1,2,3-Trichloropropane	8.4	ug/l	0.5	108600000N
Toluene	8.6	ug/l	0.5	314300000N
o-Xylene	N.D.	ug/l	0.5	315500000N
m-Xylene	8.6	ug/l	0.5	315600000N
p-Xylene	N.D.	ug/l	0.5	315700000N

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Questions? Contact Environmental
Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

AR303728

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Analysis Report

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06:01:05 352718
ASR000 D 2 16
04083 0

Dames & Moore - PA
2360 Maryland Road
Willow Grove, PA 19090-1791

LLI Sample No. PW 1868450
Date Reported 10/ 1/92
Date Submitted 9/15/92
Discard Date 10/ 9/92
Collected 9/11/92 by JV
Time Collected 1505
P.O. 1041343
Rel.

BR-6 Matrix Spike Duplicate Grab Water Sample
Rockwell/10839-126

BR-6- SDG# RAS12-14MS	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Unregulated VOC's (List 1)			

Environmental Resources (#36-037) for water testing.

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Questions? Contact Environmental Client Services at (717) 656-2301

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Judy A. Colello, B.S.
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994
717-656-2301

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VOLATILES BY GC DATA

CASE NARRATIVE

AR303731

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CLIENT: Dames and Moore
PROJECT: Rockwell/10839-126
SDG: RAS12

LANCASTER LABORATORIES, INC.

VOLATILES BY GC

LLI SAMPLE #	SAMPLE DESIGNATION	MATRIX SOIL	MATRIX WATER	COMMENTS
1868435	OB-4-		X	
1868436	BR-4-		X	DF 5
1868437	OB-7-		X	
1868438	BR-7-		X	DF 1, DF 5
1868439	OB-6-		X	DF 5
1868440	B-R-6		X	
1868441	OB-8-		X	DF 5
1868442	DBR-5		X	DF 20
1868443	TB-1R		X	
1868444	OB-4D		X	
1868445	12D--		X	DF 5, DF 10
1868446	12S--		X	DF 50
1868447	BR-5-		X	DF 10
1868448	BR-6- UNSPK		X	Unspiked
1868449	BR-6- MS		X	Matrix Spike
1868450	BR-6- MSD		X	Matrix Spike Dup

SAMPLE PREPARATION:

Dilutions were necessary for some samples as noted in the comments section above.

ANALYSIS:

2,2-Dichloropropane, 1,1-dichloropropene, dibromomethane, 1,3-dichloropropane and bromobenzene are not part of the routine calibration and check standard solutions.

m-Xylene and p-xylene coelute on the 105 meter Restek RTx 502.2 capillary column; only m-xylene is used for the calibration and check standard solutions.

o-Xylene and styrene coelute on the 105 meter Restek RTx 502.2 capillary column; only styrene is used for the calibration and check standard solutions.

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The presence of methylene chloride in the background interferes with the first two levels of calibration. Due to this interference the average response factor for levels 3-6 is multiplied by the height units for methylene chloride in the sample to quantitate the level present (ug/l).

A linear curve was attained for benzene, toluene, ethylbenzene, m-xylene and styrene with five levels of calibration. A sixth level of calibration was used for all other compounds to obtain linearity prior to analysis of samples.

For initial calibration 09/11/92, the %RSD for methylene chloride, chlorobenzene, bromoform and o-chlorotoluene is outside the QC limits as set by Lancaster Laboratories, Inc. However, method 502.2 does not specify QC limits for this parameter when a calibration curve is used.

QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

2,2-Dichloropropane, 1,1-dichloropropene, dibromomethane, 1,3-dichloropropane and bromobenzene are not part of the routine spiking solution and no acceptance criteria have been developed.

m-Xylene and p-xylene coelute on the 105 meter Restek RTx 502.2 capillary column; only m-xylene is used for spiking.

o-Xylene and styrene coelute on the 105 meter Restek RTx 502.2 capillary column; only styrene is used for spiking.

The RPD value for chloromethane is outside the QC limits as set by Lancaster Laboratories, Inc. However, method 502.2 does not specify QC limits for this parameter when a calibration curve is used. In addition, chloromethane was not detected in any of the samples, so no action was taken.

DATA INTERPRETATION:

When gases (chloromethane, bromomethane, vinyl chloride and chloroethane) are outside specifications on a check standard, a detection limit standard is referenced. This standard is used as a qualitative measure to ensure that the sample peak is visible at the detection limit. If a gas peak is detected for a sample, the sample is reanalyzed for quantitation on an instrument within specifications.

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INSTRUMENT IDENTIFICATION:

Instrument #	Clewmark
13	4177

Narrative reviewed and approved by:

Judy A. Colello

Judy A. Colello, Group Leader

10/2/92
Date

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QC SUMMARY

AR303735

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Quality Control Summary

Surrogate Recovery
Volatiles by GC - Water

LLI Sample No.	Sample Designation	Dilution Factor	S1 (MeBrCl)	S2 (1Cl3FBn)	S3 (1Cl3FBn)	S4 (1Cl2FBn)	S5 (FlBn)	Other	TOT OUT	Comment
1868435	OB-4-	1				102	101			
1868436	BR-4-	5				101	100			
1868437	OB-7-	1				105	100			
1868438	BR-7-	5				108	100			
1868438	BR-7-	1				107	99			
1868439	OB-6-	1				105	99			
1868440	B-R-6	1				102	98			
1868441	OB-8-	5				111	99			
1868442	DBR-5	20				105	99			
1868443	TB-1R	1				105	99			
1868444	OB-4D	1				103	99			
1868445	12D--	5				108	99			
1868445	12D--	10				104	99			
1868446	12S--	50				108	99			
1868447	BR-5-	10				101	99			
1868448	BR-6- UNSPK	1				102	99			
1868449	BR-6- MS	1				115	99			
1868450	BR-6- MSD	1				110	99			

	QC Limits LOW	QC Limits HIGH
S1 (MeBrCl) = Bromochloromethane (Hall Det)	75	125
S2 (1Cl3FBn) = 1-Chloro-3-fluorobenzene (Hall Det)	75	125
S3 (1Cl3FBn) = 1-Chloro-3-fluorobenzene (PID Det)	75	125
S4 (1Cl2FBn) = 1-Chloro-2-fluorobenzene (Capillary column-Hall Det)	75	125
S5 (FlBn) = Fluorobenzene (Capillary column-PID Det)	75	125

* Values outside QC limits

D Surrogates diluted out

Comments:

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AR303736

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Quality Control Summary

Method Blank
Volatiles by GC

*** BLANK INFORMATION ***
Matrix.....: Water
Batch Number.....: 92268/A13
Injection Number.....: 442
Analysis Date.....: 09/24/92
Concentration Units.....: ug/l

Sample Information				Blank Contamination Information			
LLI Sample #	Sample Designation	Analysis Date	Analysis Time	CAS Number	Compound	Blank Result	LOQ
1868435	OB-4-	09/24/92	17:53	74-87-3	Chloromethane	ND	0.5
1868448	BR-6- UNSPK	09/24/92	11:13	74-83-9	Bromomethane	ND	0.5
1868449	BR-6- MS	09/24/92	12:32	75-00-3	Chloroethane	ND	0.5
1868450	BR-6- MSD	09/24/92	13:58	75-09-2	Methylene chloride	ND	0.5
				540-59-0	trans-1,2-Dichloroethene	ND	0.5
				75-35-3	1,1-Dichloroethane	ND	0.5
				594-20-7	2,2-Dichloropropane	ND	0.5
				156-59-2	cis-1,2-Dichloroethene	ND	0.5
				67-66-3	Chloroform	ND	0.5
				563-58-6	1,1-Dichloropropene	ND	0.5
				78-87-5	1,2-Dichloropropane	ND	0.5
				75-27-4	Bromodichloromethane	ND	0.5
				106-93-4	Dibromomethane	ND	0.5
				10061-01-5	cis-1,3-Dichloropropene	ND	0.5
				10061-02-6	trans-1,3-Dichloropropene	ND	0.5
				79-00-5	1,1,2-Trichloroethane	ND	0.5
				127-18-4	Tetrachloroethene	ND	0.5
				142-28-9	1,3-Dichloropropane	ND	0.5
				124-48-1	Dibromochloromethane	ND	0.5
				108-90-7	Chlorobenzene	ND	0.5
				630-02-6	1,1,1,2-Tetrachloroethane	ND	0.5
				75-25-2	Bromoform	ND	0.5
				79-34-5	1,1,2,2-Tetrachloroethane	ND	0.5
				96-18-4	1,2,3-Trichloropropane	ND	0.5
				95-49-8	o-Chlorotoluene	ND	0.5
				106-43-4	p-Chlorotoluene	ND	0.5
				541-73-1	m-Dichlorobenzene	ND	0.5
				95-50-1	o-Dichlorobenzene	ND	0.5
				108-88-3	Toluene	ND	0.5
				100-41-4	Ethylbenzene	ND	0.5
				106-42-3	p-Xylene	ND	0.5
				108-38-3	m-Xylene	ND	0.5
				95-47-6	o-Xylene	ND	0.5
				100-42-5	Styrene	ND	0.5
				108-86-1	Bromobenzene	ND	0.5

ABBREVIATION KEY

LOQ = Limit of Quantitation
ND = None Detected
* = above detection limit

COMMENTS:

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Quality Control Summary

Method Blank
Volatiles by GC

*** BLANK INFORMATION ***
Matrix.....: Water
Batch Number.....: 92268/A13
Injection Number.....: 442
Analysis Date.....: 09/24/92
Concentration Units.....: ug/l

Sample Information				Blank Contamination Information			
LLI Sample #	Sample Designation	Analysis Date	Analysis Time	CAS Number	Compound	Blank Result	LOQ
1868435	OB-4-	09/24/92	17:53	75-01-4	Vinyl chloride	ND	0.5
1868448	BR-6- UNSPK	09/24/92	11:13	75-35-4	1,1-Dichloroethene	ND	0.5
1868449	BR-6- MS	09/24/92	12:32	71-55-6	1,1,1-Trichloroethene	ND	0.5
1868450	BR-6- MSD	09/24/92	13:58	56-23-5	Carbon tetrachloride	ND	0.5
				107-06-2	1,2-Dichloroethane	ND	0.5
				79-1-6	Trichloroethene	ND	0.5
				106-46-7	p-Dichlorobenzene	ND	0.5
				71-43-2	Benzene	ND	0.5
						ND	0.5

ABBREVIATION KEY

LOQ = Limit of Quantitation
ND = None Detected
* = above detection limit

COMMENTS:

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Quality Control Summary

Method Blank
Volatiles by GC

*** BLANK INFORMATION ***
Matrix.....: Water
Batch Number.....: 92268/A13
Injection Number.....: 465
Analysis Date.....: 09/25/92
Concentration Units.....: ug/l

Sample Information				Blank Contamination Information			
LLI Sample #	Sample Designation	Analysis Date	Analysis Time	CAS Number	Compound	Blank Result	LOQ
1868436	BR-4-	09/25/92	00:29	74-87-3	Chloromethane	ND	0.5
1868437	OB-7-	09/25/92	01:46	74-83-9	Bromomethane	ND	0.5
1868438	BR-7-	09/25/92	06:15	75-00-3	Chloroethane	ND	0.5
1868438	BR-7-	09/25/92	07:52	75-09-2	Methylene chloride	0.3	0.5
1868439	OB-6-	09/25/92	09:19	540-59-0	trans-1,2-Dichloroethene	ND	0.5
1868440	B-R-6	09/25/92	10:35	75-35-3	1,1-Dichloroethane	ND	0.5
1868441	OB-8-	09/25/92	14:24	594-20-7	2,2-Dichloropropane	ND	0.5
1868442	DBR-5	09/25/92	15:39	156-59-2	cis-1,2-Dichloroethene	ND	0.5
1868444	OB-4D	09/25/92	16:50	67-66-3	Chloroform	ND	0.5
1868445	12D--	09/25/92	18:11	563-58-6	1,1-Dichloropropene	ND	0.5
1868445	12D--	09/25/92	20:32	78-87-5	1,2-Dichloropropane	ND	0.5
1868446	12S--	09/25/92	22:52	75-27-4	Bromodichloromethane	ND	0.5
				106-93-4	Dibromomethane	ND	0.5
				10061-01-5	cis-1,3-Dichloropropene	ND	0.5
				10061-02-6	trans-1,3-Dichloropropene	ND	0.5
				79-00-5	1,1,2-Trichloroethane	ND	0.5
				127-18-4	Tetrachloroethene	ND	0.5
				142-28-9	1,3-Dichloropropane	ND	0.5
				124-48-1	Dibromochloromethane	ND	0.5
				108-90-7	Chlorobenzene	ND	0.5
				630-02-6	1,1,1,2-Tetrachloroethane	ND	0.5
				75-25-2	Bromoform	ND	0.5
				79-34-5	1,1,2,2-Tetrachloroethane	ND	0.5
				96-18-4	1,2,3-Trichloropropane	ND	0.5
				95-49-8	o-Chlorotoluene	ND	0.5
				106-43-4	p-Chlorotoluene	ND	0.5
				541-73-1	m-Dichlorobenzene	ND	0.5
				95-50-1	o-Dichlorobenzene	ND	0.5
				108-88-3	Toluene	ND	0.5
				100-41-4	Ethylbenzene	ND	0.5
				106-42-3	p-Xylene	ND	0.5
				108-38-3	m-Xylene	ND	0.5
				95-47-6	o-Xylene	ND	0.5
				100-42-5	Styrene	ND	0.5
				108-86-1	Bromobenzene	ND	0.5

ABBREVIATION KEY

LOQ = Limit of Quantitation
ND = None Detected
* = above detection limit

COMMENTS:

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Quality Control Summary

Method Blank
Volatiles by GC

*** BLANK INFORMATION ***
Matrix.....: Water
Batch Number.....: 92268/A13
Injection Number.....: 465
Analysis Date.....: 09/25/92
Concentration Units.....: ug/l

Sample Information				Blank Contamination Information			
LLI Sample #	Sample Designation	Analysis Date	Analysis Time	CAS Number	Compound	Blank Result	LOQ
1868436	BR-4-	09/25/92	00:29	75-01-4	Vinyl chloride	ND	0.5
1868437	OB-7-	09/25/92	01:46	75-35-4	1,1-Dichloroethene	ND	0.5
1868438	BR-7-	09/25/92	06:15	71-55-6	1,1,1-Trichloroethene	ND	0.5
1868438	BR-7-	09/25/92	07:52	56-23-5	Carbon tetrachloride	ND	0.5
1868439	OB-6-	09/25/92	09:19	107-06-2	1,2-Dichloroethane	ND	0.5
1868440	B-R-6	09/25/92	10:35	79-1-6	Trichloroethene	ND	0.5
1868441	OB-8-	09/25/92	14:24	106-46-7	p-Dichlorobenzene	ND	0.5
1868442	DBR-5	09/25/92	15:39	71-43-2	Benzene	ND	0.5
1868444	OB-4D	09/25/92	16:50			ND	0.5
1868445	12D--	09/25/92	18:11				
1868445	12D--	09/25/92	20:32				
1868446	12S--	09/25/92	22:52				

ABBREVIATION KEY

LOQ = Limit of Quantitation
ND = None Detected
* = above detection limit

COMMENTS:

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Quality Control Summary

Method Blank
Volatiles by GC

*** BLANK INFORMATION ***
Matrix.....: Water
Batch Number.....: 92268/A13
Injection Number.....: 479
Analysis Date.....: 09/28/92
Concentration Units.....: ug/l

Sample Information				Blank Contamination Information			
LLI Sample #	Sample Designation	Analysis Date	Analysis Time	CAS Number	Compound	Blank Result	LOQ
1868443	TB-1R	09/28/92	13:55	74-87-3	Chloromethane	ND	0.5
1868447	BR-5-	09/28/92	12:39	74-83-9	Bromomethane	ND	0.5
				75-00-3	Chloroethane	ND	0.5
				75-09-2	Methylene chloride	ND	0.5
				540-59-0	trans-1,2-Dichloroethene	ND	0.5
				75-35-3	1,1-Dichloroethane	ND	0.5
				594-20-7	2,2-Dichloropropane	ND	0.5
				156-59-2	cis-1,2-Dichloroethene	ND	0.5
				67-66-3	Chloroform	ND	0.5
				563-58-6	1,1-Dichloropropene	ND	0.5
				78-87-5	1,2-Dichloropropane	ND	0.5
				75-27-4	Bromodichloromethane	ND	0.5
				106-93-4	Dibromomethane	ND	0.5
				10061-01-5	cis-1,3-Dichloropropene	ND	0.5
				10061-02-6	trans-1,3-Dichloropropene	ND	0.5
				79-00-5	1,1,2-Trichloroethane	ND	0.5
				127-18-4	Tetrachloroethene	ND	0.5
				142-28-9	1,3-Dichloropropane	ND	0.5
				124-48-1	Dibromochloromethane	ND	0.5
				108-90-7	Chlorobenzene	ND	0.5
				630-02-6	1,1,1,2-Tetrachloroethane	ND	0.5
				75-25-2	Bromoform	ND	0.5
				79-34-5	1,1,2,2-Tetrachloroethane	ND	0.5
				96-18-4	1,2,3-Trichloropropane	ND	0.5
				95-49-8	o-Chlorotoluene	ND	0.5
				106-43-4	p-Chlorotoluene	ND	0.5
				541-73-1	m-Dichlorobenzene	ND	0.5
				95-50-1	o-Dichlorobenzene	ND	0.5
				108-88-3	Toluene	ND	0.5
				100-41-4	Ethylbenzene	ND	0.5
				106-42-3	p-Xylene	ND	0.5
				108-38-3	m-Xylene	ND	0.5
				95-47-6	o-Xylene	ND	0.5
				100-42-5	Styrene	ND	0.5
				108-86-1	Bromobenzene	ND	0.5

ABBREVIATION KEY

LOQ = Limit of Quantitation
ND = None Detected
* = above detection limit

COMMENTS:

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Quality Control Summary

Method Blank
Volatiles by GC

*** BLANK INFORMATION ***
Matrix.....: Water
Batch Number.....: 92268/A13
Injection Number.....: 479
Analysis Date.....: 09/28/92
Concentration Units.....: ug/l

Sample Information				Blank Contamination Information			
LLI Sample #	Sample Designation	Analysis Date	Analysis Time	CAS Number	Compound	Blank Result	LOQ
1868443	TB-1R	09/28/92	13:55	75-01-4	Vinyl chloride	ND	0.5
1868447	BR-5-	09/28/92	12:39	75-35-4	1,1-Dichloroethene	ND	0.5
				71-55-6	1,1,1-Trichloroethene	ND	0.5
				56-23-5	Carbon tetrachloride	ND	0.5
				107-06-2	1,2-Dichloroethane	ND	0.5
				79-1-6	Trichloroethene	ND	0.5
				106-46-7	p-Dichlorobenzene	ND	0.5
				71-43-2	Benzene	ND	0.5
						ND	0.5

ABBREVIATION KEY

LOQ = Limit of Quantitation
ND = None Detected
* = above detection limit

COMMENTS:

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Quality Control Summary

Matrix Spike/Matrix Spike Duplicate
Volatiles by GC

Unspiked Sample Number : 1868448 Inj. : 448
Spiked Sample Number : 1868449 Inj. : 449
Spiked Dup Sample Number : 1868450 Inj. : 450

Batch Number : 92268/A13 Date : 09/24/92
Matrix : Water

This MS/MSD applies to the following samples	Compound	Spike Added (ug/l)	Sample Conc (ug/l)	MS Conc (ug/l)	MSD Conc (ug/l)	MS % REC	MSD % REC	QC Limits REC	RPD	QC Limits RPD
1868435	Chloromethane	20.0	ND	21.2	17.0	106.2	84.8	65 -130	22.4 *	20
1868436	Bromomethane	20.0	ND	21.2	19.4	106.1	97.1	65 -130	8.9	20
1868437	Chloroethane	20.0	ND	20.7	18.9	103.6	94.4	65 -130	9.3	20
1868438	Methylene chloride	7.8	ND	8.4	8.1	107.6	103.7	65 -130	3.6	15
1868439	trans-1,2-Dichloroethene	7.7	ND	8.7	8.6	112.7	111.0	65 -130	1.5	15
1868440	1,1-Dichloroethane	8.3	ND	9.2	9.0	111.0	108.7	65 -130	2.1	15
1868441	cis-1,2-Dichloroethene	8.0	1.1	10.0	9.8	111.4	109.6	65 -130	1.7	15
1868442	Chloroform	8.1	ND	8.6	8.5	106.8	105.8	65 -130	0.9	15
1868443	1,2-Dichloropropane	7.9	ND	8.5	8.7	108.1	110.6	65 -130	2.3	15
1868444	Bromodichloromethane	8.4	ND	8.9	9.2	106.1	109.5	65 -130	3.2	15
1868445	cis-1,3-Dichloropropene	9.9	ND	10.7	11.0	107.7	110.5	65 -130	2.6	15
1868446	trans-1,3-Dichloropropene	6.6	ND	7.0	7.1	105.7	107.4	65 -130	1.6	15
1868447	1,1,2-Trichloroethane	8.4	ND	8.7	8.9	103.8	105.6	65 -130	1.7	15
1868448	Tetrachloroethene	8.1	5.2	14.7	15.0	117.9	121.7	65 -130	3.2	15
1868449	Dibromochloromethane	7.7	ND	8.2	8.1	105.7	105.1	65 -130	0.6	15
1868450	Chlorobenzene	8.1	ND	9.1	9.1	111.5	111.5	65 -130	0.0	[illegible]
	1,1,1,2-Tetrachloroethane	8.1	ND	8.9	8.9	109.8	109.7	65 -130	0.1	15
	Bromoform	8.6	ND	8.7	8.7	101.2	101.6	65 -130	0.5	15
	1,1,2,2-Tetrachloroethane	8.6	ND	8.7	9.1	100.7	105.1	65 -130	4.3	15
	1,2,3-Trichloropropane	8.1	ND	8.0	8.4	99.8	104.5	65 -130	4.6	15
	o-Chlorotoluene	7.9	ND	8.9	9.1	111.7	114.2	65 -130	2.2	15
	p-Chlorotoluene	8.2	ND	9.1	9.3	110.1	113.3	65 -130	2.8	15
	m-Dichlorobenzene	8.1	ND	8.8	9.2	109.2	113.8	65 -130	4.1	15
	o-Dichlorobenzene	8.9	ND	9.5	9.9	106.6	111.3	65 -130	4.3	15
	Toluene	7.8	ND	8.1	8.6	103.9	111.2	65 -130	6.8	15
	Ethylbenzene	8.1	0.3	8.5	9.0	101.5	108.2	65 -130	6.4	15
	m-Xylene	7.8	ND	8.1	8.6	104.2	111.1	65 -130	6.3	15
	Styrene	8.7	ND	8.7	9.3	100.5	107.9	65 -130	7.1	15

ABBREVIATION KEY
MS = Matrix Spike
MSD = Matrix Spike Duplicate
ND = None Detected
RPD = Relative Percent Difference

COMMENTS: 2,2-Dichloropropane, 1,1-dichloropropene, dibromomethane, 1,3-dichloropropane and bromobenzene are not part of the routine spiking solution and no acceptance criteria have been developed.

m-Xylene and p-xylene coelute on the 105 meter Restek RTx 502.2 capillary column; only m-xylene is used for spiking.

o-Xylene and styrene coelute on the 105 meter Restek RTx 502.2 capillary column; only styrene is used for spiki[illegible]

The RPD value for chloromethane is outside QC limits as set by Lancaster Laboratories, Inc. However, method 502.2 does not specify QC limits for this parameter when a calibration curve is used. In addition, chloromethane was not detected in any of the samples, so no action was taken.

AR303743

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Where quality is a science.

Quality Control Summary

Matrix Spike/Matrix Spike Duplicate
Volatiles by GC

Unspiked Sample Number : 1868448 Inj. : 448
Spiked Sample Number : 1868449 Inj. : 449
Spiked Dup Sample Number : 1868450 Inj. : 450

Batch Number : 92268/A13 Date : 09/24/92
Matrix : Water

This MS/MSD applies to the following samples	Compound	Spike Added (ug/l)	Sample Conc (ug/l)	MS Conc (ug/l)	MSD Conc (ug/l)	MS % REC	MSD % REC	QC Limits REC	RPD	QC Limits RPD
1868435	Vinyl chloride	20.0	ND	21.0	17.1	104.8	85.7	65 -130	20.0	20
1868436	1,1-Dichloroethene	8.1	ND	9.1	8.7	111.8	106.4	75 -125	5.0	15
1868437	1,1,1-Trichloroethane	8.0	ND	8.8	8.8	110.9	110.3	75 -125	0.6	15
1868438	Carbon Tetrachloride	8.4	ND	9.3	9.4	109.9	111.3	75 -125	1.3	15
1868439	1,2-Dichloroethane	8.5	ND	8.9	9.1	104.8	107.4	75 -125	2.4	15
1868440	Trichloroethene	8.0	0.9	9.6	9.8	109.3	111.9	75 -125	2.4	15
1868441	p-Dichlorobenzene	8.7	ND	9.7	10.1	111.2	115.8	75 -125	4.1	15
1868442	Benzene	8.0	ND	8.3	8.8	103.1	109.7	75 -125	6.2	15
1868443										
1868444										
1868445										
1868446										
1868447										
1868448										
1868449										
1868450										

ABBREVIATION KEY
MS = Matrix Spike
MSD = Matrix Spike Duplicate
ND = None Detected
RPD = Relative Percent Difference

COMMENTS:

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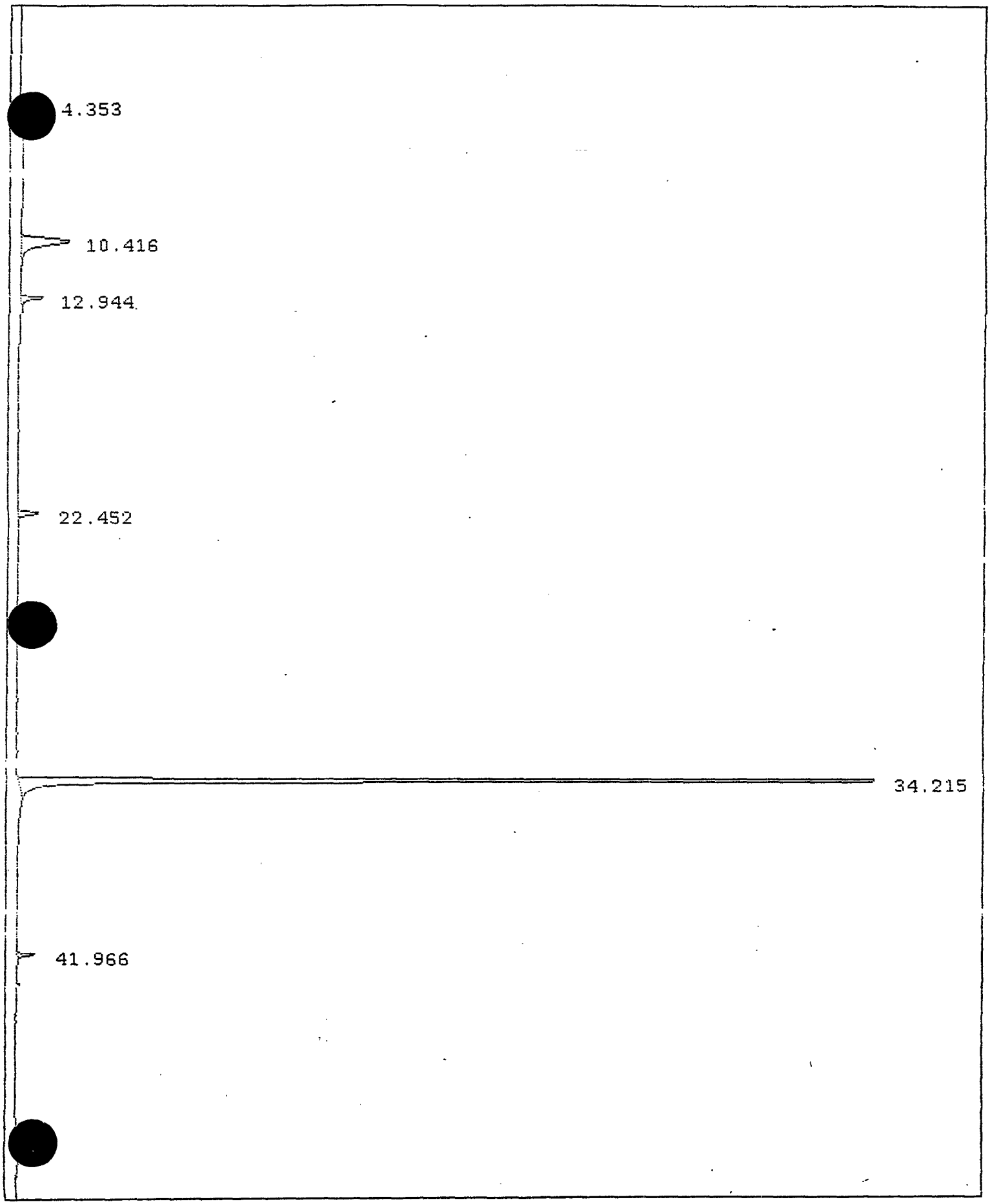
SAMPLE DATA



SAMPLE NAME: 1868435
Resultfile: /CAP/RESULT/H13_268_453.RES
Plot Fields: 3000 - 5500 Instrument - HP5890#13HALL

AR303746

Sample Name: 1868435
Batch # 92268/A13 Injected on Thu Sep 24, 1992 5:53:31 pm

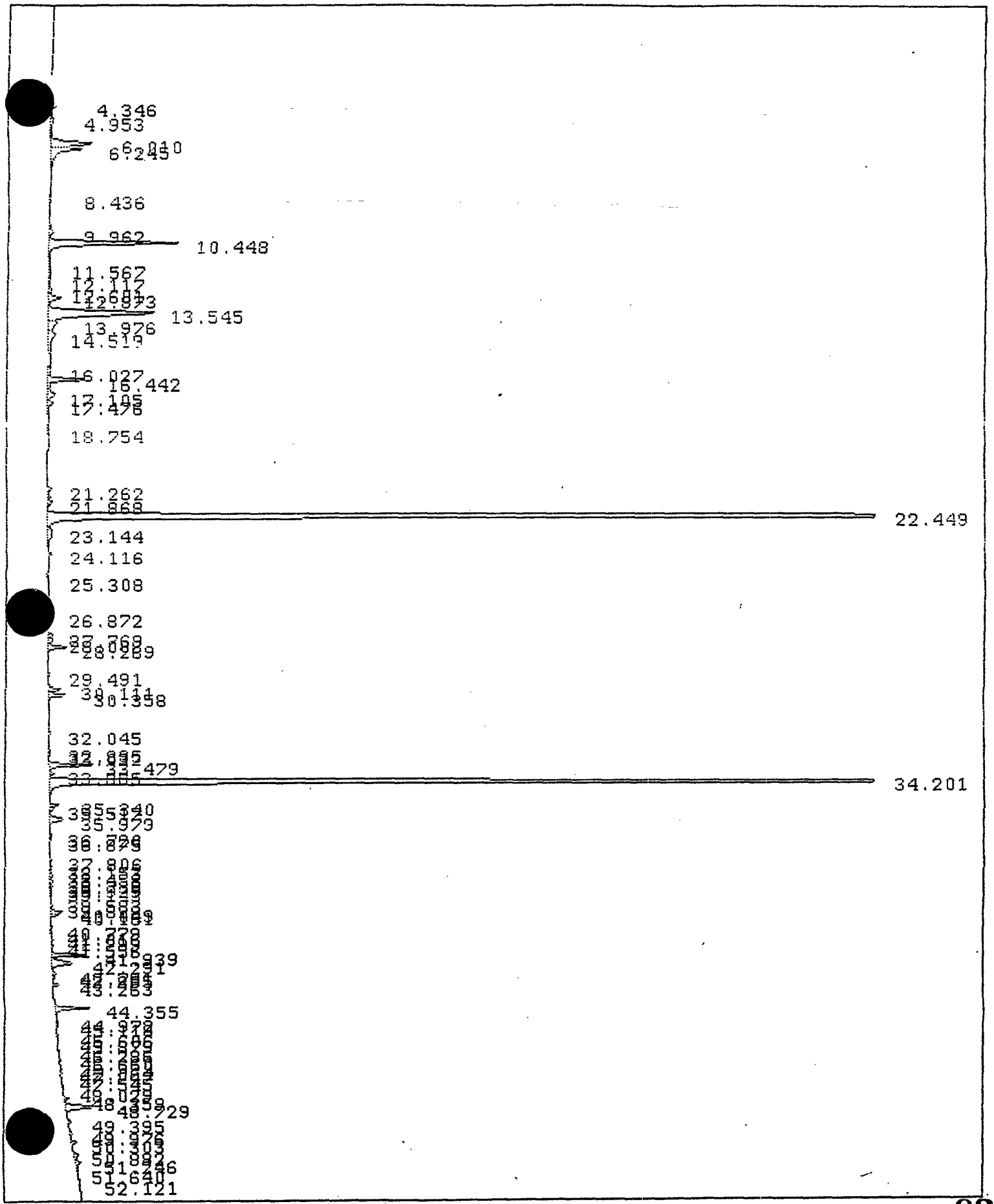
Instrument: HP5890#13HALL Employee #746
Calculation: ExternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/H13_268_453.RES
Methodfile: /CAP/METHOD/H13_268N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
105m x 0.53mm ID fused silica RTX-502.2 column - Hall Detector
HP [illegible] INSTRUMENT ID# [illegible]

Integration Parameters: Run Time - 53.00
Threshold - 4.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Timed Events	Time	Event	Logic	Value	EventUpdate
1	33.000	SetPeakWidth	Event	.05	False

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
3	12.94	#12.93	298	2908	BB	.05	METHYLENE CHLORIDE
5	34.21	#34.21	18649	129100	BB	102.21	SURR-1CL2FBENZENE
6	41.97	#41.95	247	1677	BB	.14	P-DICHLOROBENZENE

Reported on Thu Sep 24, 1992 6:48:19 pm
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT



SAMPLE NAME: 1868435

Resultfile: /CAP/RESULT/P13_268_453.RES

AR303748

Plot Fields: 3000 - 10000 Instrument - HP5890#13PID

Sample Name: 1868435
Batch # 92268/A13 Injected on Thu Sep 24, 1992 5:53:31 pm

Instrument: HP5890#13PID Employee #746
Calculation: InternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/P13_268_453.RES
Methodfile: /CAP/METHOD/P13_268N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
105m x 0.53mm ID fused silica RTX-502.2 column - PID Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 04177

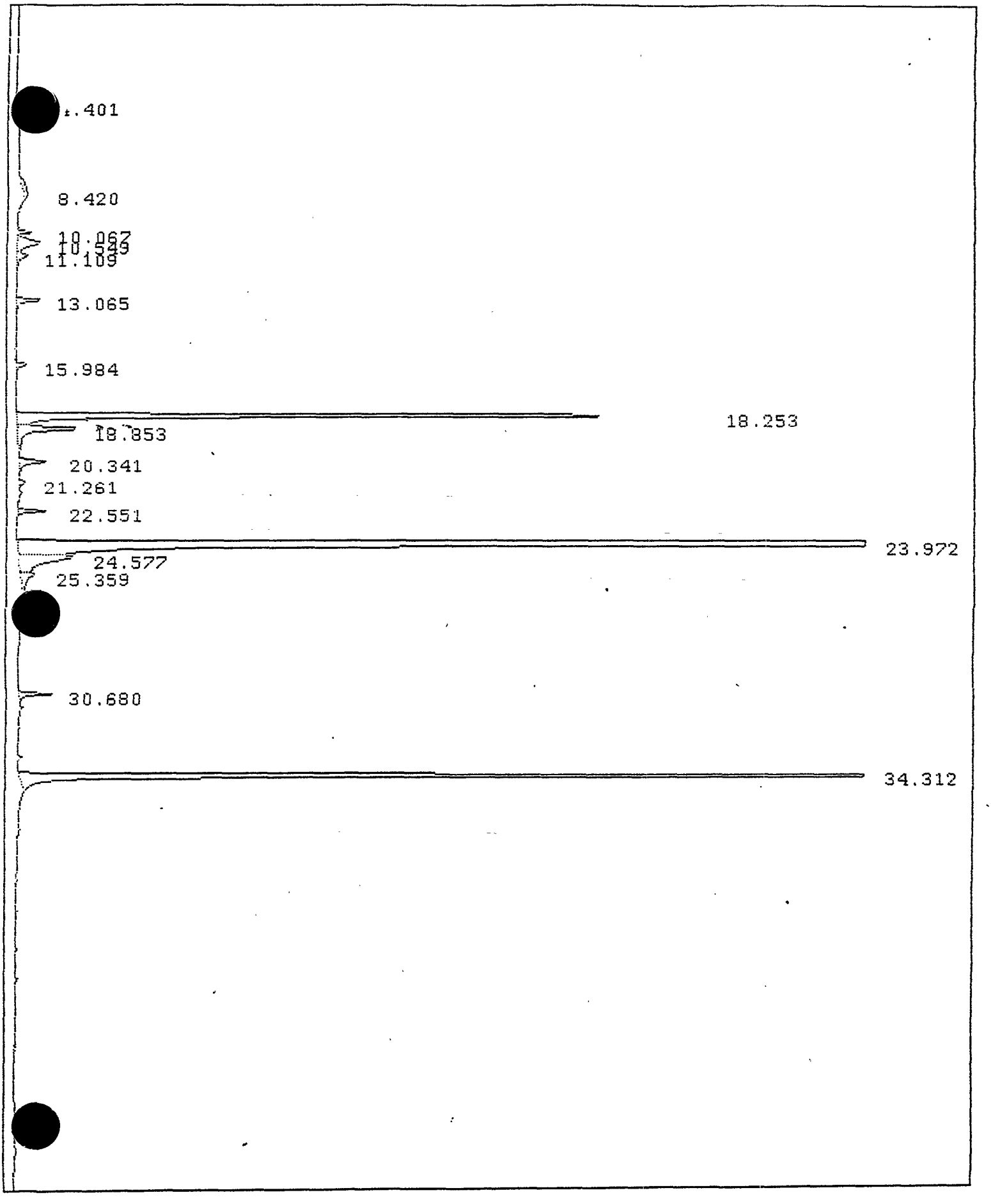
Integration Parameters: Run Time - 53.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .30000 Dilution Factor - 1.00

Timed Events	Time	Event	Logic	Value	EventUpdate
1	24.900	ResetBLAtValle	Event	-1.00	False
2	31.900	SetPeakWidth	Event	.05	False
3	33.300	SetPeakWidth	Event	.10	False

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
3	6.01	6.07	1352	16599	VV	6.31	VINYL CHLORIDE
22	22.45	#22.46	58486	468866	VV	100.62	SURR-FBENZENE
29	28.27	#28.28	640	5104	VV	.10	TOLUENE
32	30.36	#30.56	650	5202	VV	.23	TETRACHLOROETHENE
36	33.48	#33.39	1638	11123	BV	.22	CHLOROBENZENE
37	33.88	#33.89	163	1207	VV	.02	M-XYLENE
38	34.20	#34.21	67033	429050	VV		ISTD-1CL2FBENZENE
40	35.52	#35.52	136	905	VV	.02	STYRENE
42	36.72	#36.72	52	368	BV	.01	CUMENE
45	38.15	#38.16	42	340	PV	.01	N-PROPYLBENZENE
[illegible]	38.74	#38.76	75	577	VV	.01	O-CHLOROTOLUENE
4[illegible]	38.93	#38.93	76	545	VV	.01	P-CHLOROTOLUENE
52	40.05	#40.14	413	2727	VV	.07	1,2,4-TRIMETHYLBENZENE
54	40.78	#40.79	39	315	BV	.01	SEC-BUTYLBENZENE
56	41.29	#41.29	45	303	PV	.01	P-ISOPROPYLTOLUENE
57	41.56	#41.56	51	424	VV	.01	M-DICHLOROBENZENE
58	41.94	#41.94	1202	7076	VV	.17	P-DICHLOROBENZENE
60	42.78	#42.78	103	895	VV	.02	N-BUTYLBENZENE
62	43.26	#43.27	234	1599	VV	.04	O-DICHLOROBENZENE
76	49.40	49.47	108	939	VV	.03	1,2,4-TRICHLOROBENZENE
77	49.98	50.05	77	715	PV	.03	HEXACHLOROBUTADIENE
78	50.30	50.38	189	1343	VV	.05	NAPHTHALENE
80	51.25	51.32	164	1739	VV	.05	1,2,3-TRICHLOROBENZENE

Internal Standard Range: 51808 - 77712 (Midpoint - 64760)

Using initial calibration files.
Reported on Thu Sep 24, 1992 6:50:43 pm
Report Formatfile: /DATA/FORMAT/CAPPID.FMT



SAMPLE NAME: 1868436
Resultfile: /CAP/RESULT/H13_268_456.RES
Plot Fields: 3000 - 5500 Instrument - HP5890#13HALL

AR303750

Sample Name: 1868436
Batch # 92268/A13 Injected on Fri Sep 25, 1992 12:29:28 am

Instrument: HP5890#13HALL Employee #768
Calculation: ExternalSTD Quantitation: HeightUnits
Res .file: /CAP/RESULT/H13_268_456.RES
Methodfile: /CAP/METHOD/H13_268N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
105m x 0.53mm ID fused silica RTX-502.2 column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 04177

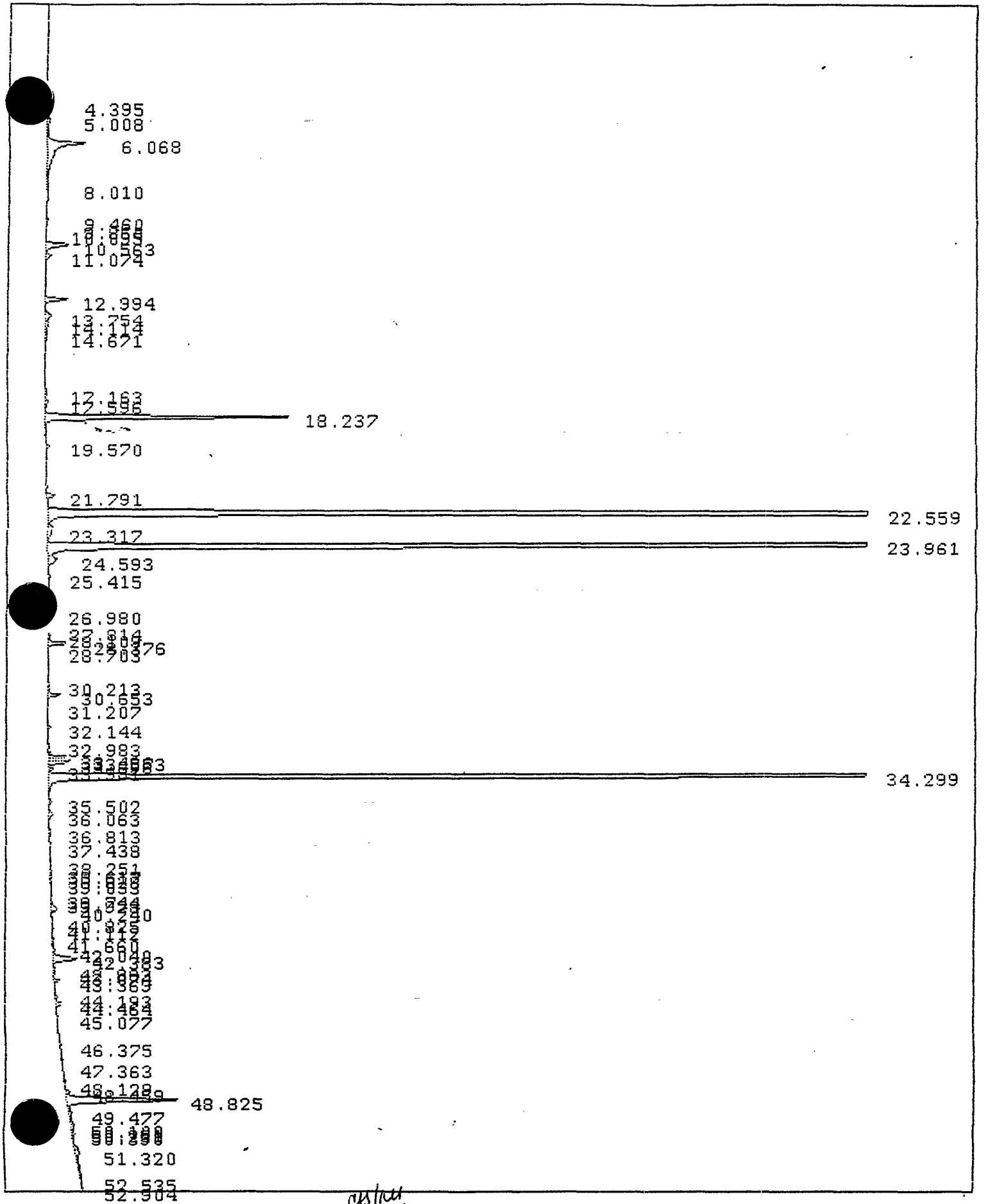
Integration Parameters: Run Time - 53.00
Threshold - 4.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 5.00

Timed Events	Time	Event	Logic	Value	EventUpdate
1	33.000	SetPeakWidth	Event	.05	False

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
8	18.25	#18.14	8085	69583	BV	17.34	CIS-1,2-DICHLOROETHENE
9	18.85	#18.74	772	10754	VB	.90	CHLOROFORM
10	20.34	#20.22	316	4117	BV	.83	1,1,1-TRICHLOROETHANE
11	21.26	#21.13	72	854	PV	.18	CARBON TETRACHLORIDE
13	23.97	#23.87	80884	641321	BV	162.80	TRICHLOROETHENE
14	24.58	#24.47	638	15972	VV	1.87	1,2-DICHLOROPROPANE
15	25.36	#25.25	173	4354	VB	.47	BROMODICHLOROMETHANE
16	30.68	#30.57	408	3421	BV	.75	TETRACHLOROETHENE
17	34.31	#34.21	18443	127803	BV	~~505.39~~	SURR-1CL2FBENZENE 101

Reported on Fri Sep 25, 1992 1:25:04 am
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT

DXR 768
9-25-92



SAMPLE NAME: ~~1868482~~ 1868436 cs/ccl 10/2/92

Resultfile: /CAP/RESULT/P13_268_456.RES

Plot Fields: 3000 - 10000 Instrument - HP5890#13PID

AR303752

Sample Name: ~~1868482~~ 1868436 CW/RU 10/2/92
Batch # 92268/A13 Injected on Fri Sep 25, 1992 12:29:28 am

Instrument: HP5890#13PID Employee #768
Calculation: InternalSTD Quantitation: HeightUnits
Re tfile: /CAP/RESULT/P13_268_456.RES
Metnodfile: /CAP/METHOD/P13_268N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
105m x 0.53mm ID fused silica RTX-502.2 column - PID Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 04177

Integration Parameters: Run Time - 53.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .30000 Dilution Factor - 5.00

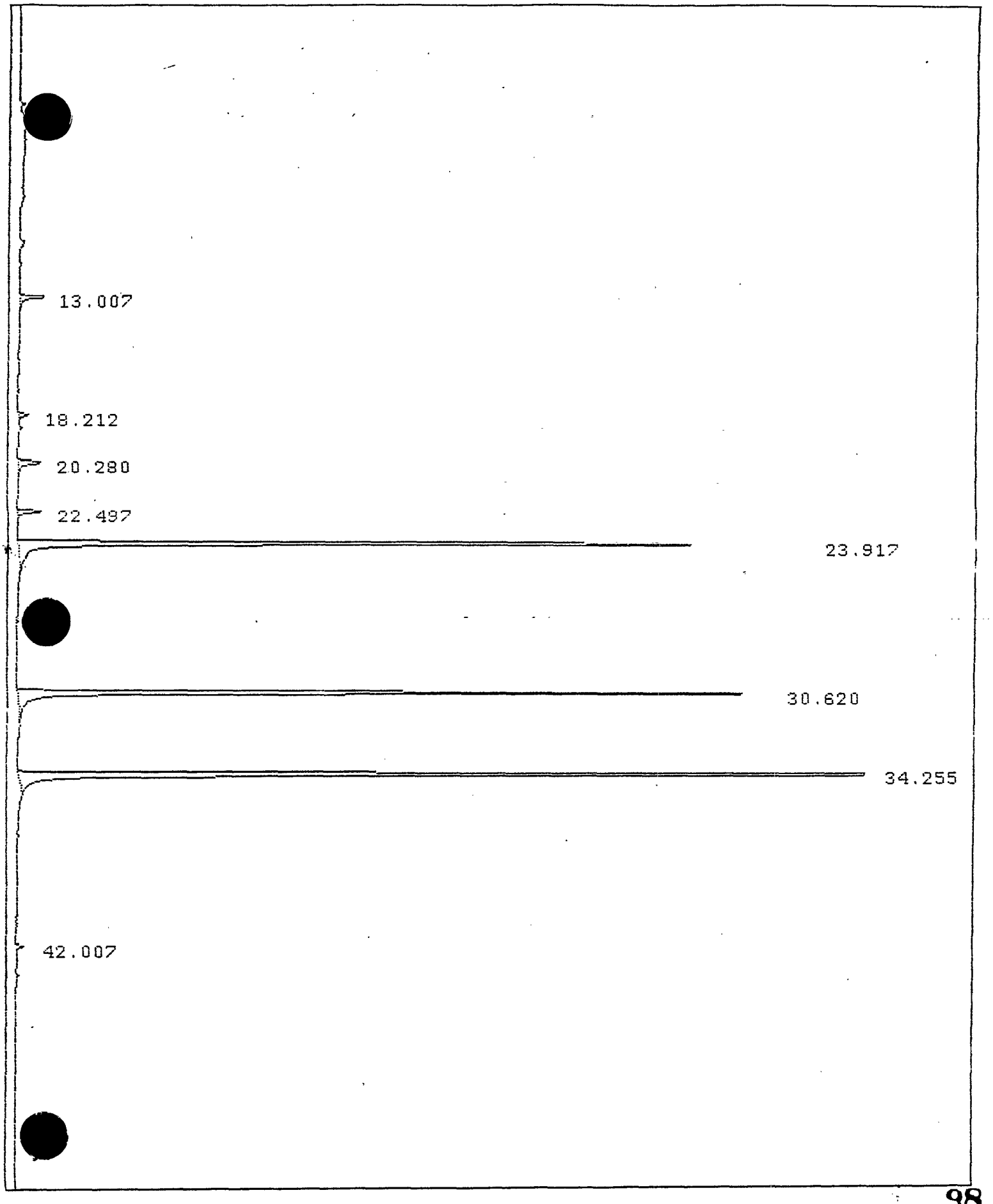
Timed Events	Time	Event	Logic	Value	EventUpdate
1	24.900	ResetBLAtValle	Event	-1.00	False
2	31.900	SetPeakWidth	Event	.05	False
3	33.300	SetPeakWidth	Event	.10	False

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
3	6.07	6.07	1258	27794	VV	31.18	VINYL CHLORIDE
9	11.07	10.99	184	2178	VV	.68	1,1-DICHLOROETHENE
12	14.11	#14.16	102	1607	VV	.10	TRANS-1,2-DICHLOROETHENE
16	18.24	#18.13	8510	68493	VV	18.74	CIS-1,2-DICHLOROETHENE
18	21.79	#21.69	285	2609	VV	.26	BENZENE
19	22.56	#22.46	57029	456450	VV	~~499.26~~	SURR-FBENZENE 100
21	23.96	#23.86	92993	681151	VV	163.97	TRICHLOROETHENE
24	26.98	#27.14	183	1371	PV	.53	CIS-1,3-DICHLOROPROPENE
27	28.38	#28.28	701	5185	VV	.56	TOLUENE
28	28.70	#28.87	26	381	VB	.05	TRANS-1,3-DICHLOROPROPENE
3[illegible]	30.65	#30.56	461	3757	VV	.84	TETRACHLOROETHENE
3[illegible]	33.49	#33.39	636	3442	BV	.44	CHLOROBENZENE
35	33.57	#33.61	734	4457	VV	.64	ETHYLBENZENE
37	33.98	#33.89	206	1448	VV	.15	M-XYLENE
38	34.30	#34.21	65863	422929	VV		ISTD-1CL2FBENZENE
39	35.50	#35.52	72	1040	VV	.04	STYRENE
41	36.81	#36.72	40	418	BB	.05	CUMENE
43	38.25	#38.16	25	185	PV	.02	N-PROPYLBENZENE
44	38.62	#38.76	69	577	PV	.06	O-CHLOROTOLUENE
46	39.03	#38.93	38	259	VV	.03	P-CHLOROTOLUENE
49	40.24	#40.14	176	2088	VV	.15	1,2,4-TRIMETHYLBENZENE
50	40.82	#40.79	24	232	VV	.03	SEC-BUTYLBENZENE
52	41.66	#41.56	56	679	BV	.04	M-DICHLOROBENZENE
53	42.04	#41.94	98	804	VV	.07	P-DICHLOROBENZENE
57	43.37	#43.27	197	1185	BV	.18	O-DICHLOROBENZENE
66	49.48	49.47	85	1919	VV	.12	1,2,4-TRICHLOROBENZENE
67	50.10	50.05	115	2936	VV	.25	HEXACHLOROBUTADIENE
69	50.39	50.38	114	1128	VV	.14	NAPHTHALENE
70	51.32	51.32	128	3991	VV	.20	1,2,3-TRICHLOROBENZENE

Internal Standard Range: 51808 - 77712 (Midpoint - 64760)

Doon 768
9-25-92

Using initial calibration files.
Reported on Fri Sep 25, 1992 1:27:31 am
Report Formatfile: /DATA/FORMAT/CAPPID.FMT



SAMPLE NAME: 1868437
Resultfile: /CAP/RESULT/H13_268_457.RES
Plot Fields: 3000 - 5500 Instrument - HP5890#13HALL

Sample Name: 1868437
Batch # 92268/A13 Injected on Fri Sep 25, 1992 1:46:40 am

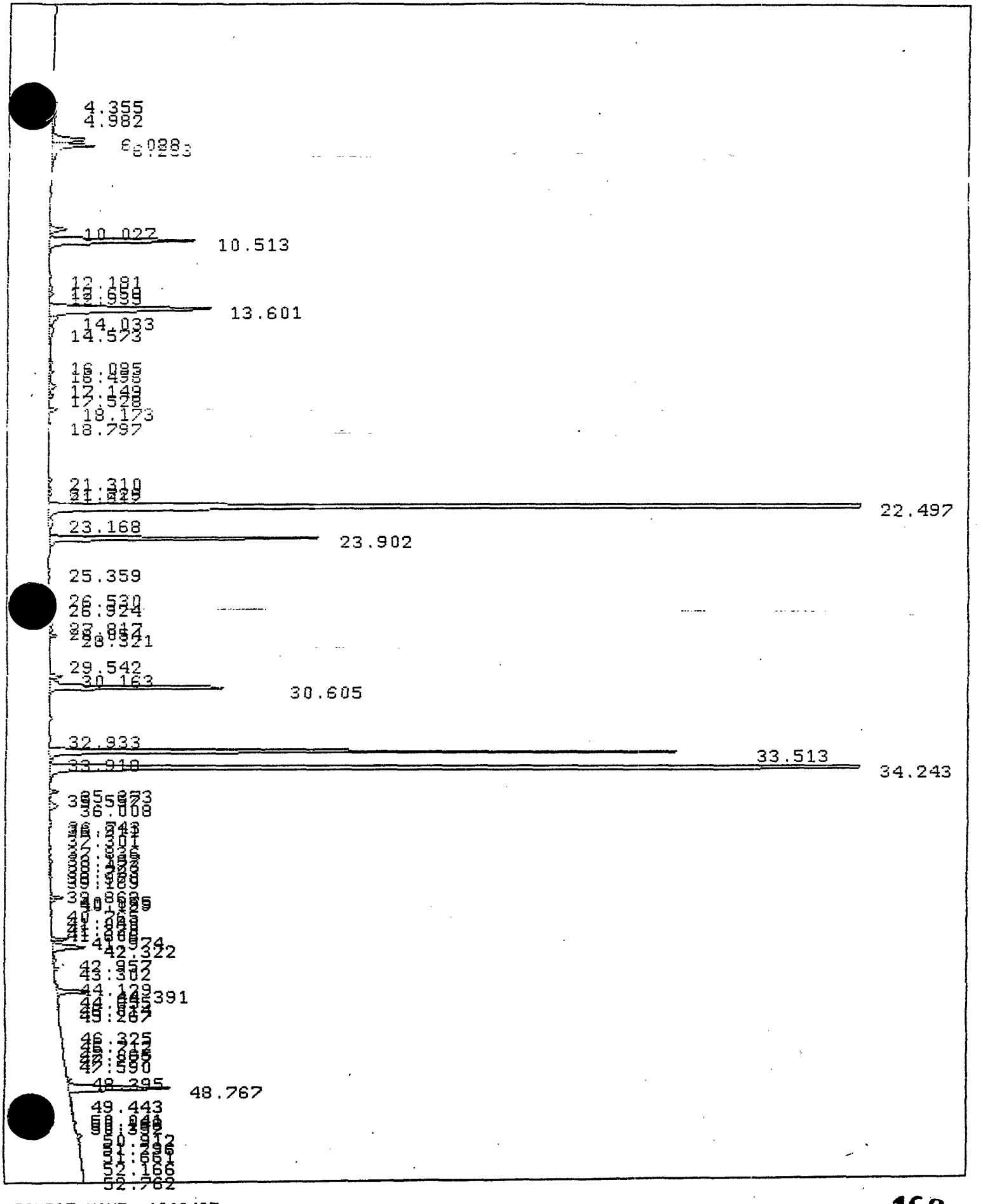
Instrument: HP5890#13HALL Employee #768
Ca' 'lation: ExternalSTD Quantitation: HeightUnits
Re. .tfile: /CAP/RESULT/H13_268_457.RES
Methodfile: /CAP/METHOD/H13_268N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
105m x 0.53mm ID fused silica RTX-502.2 column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 04177

Integration Parameters: Run Time - 53.00
Threshold - 4.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 1.00

Timed Events	Time	Event	Logic	Value	EventUpdate
1	33.000	SetPeakWidth	Event	.05	False

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
1	13.01	#12.93	335	3155	BB	.06	METHYLENE CHLORIDE
2	18.21	#18.14	123	1031	BB	.07	CIS-1,2-DICHLOROETHENE
3	20.28	#20.22	278	3219	BB	.15	1,1,1-TRICHLOROETHANE
5	23.92	#23.87	9238	74412	BB	3.33	TRICHLOROETHENE
6	30.62	#30.57	9142	71400	BB	2.96	TETRACHLOROETHENE
7	34.26	#34.21	19074	131942	BB	104.54	SURR-1CL2FBENZENE
8	42.01	#41.95	91	595	BB	.05	P-DICHLOROBENZENE

Reported on Fri Sep 25, 1992 2:46:13 am
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT



SAMPLE NAME: 1868437
Resultfile: /CAP/RESULT/P13_268_457.RES
Plot Fields: 3000 - 10000 Instrument - HP5890#13PID

AR303756

100

Sample Name: 1868437
Batch # 92268/A13 Injected on Fri Sep 25, 1992 1:46:40 am

Instrument: HP5890#13PID Employee #768
Calculation: InternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/P13_268_457.RES
Methodfile: /CAP/METHOD/P13_268N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
105m x 0.53mm ID fused silica RTX-502.2 column - PID Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 04177

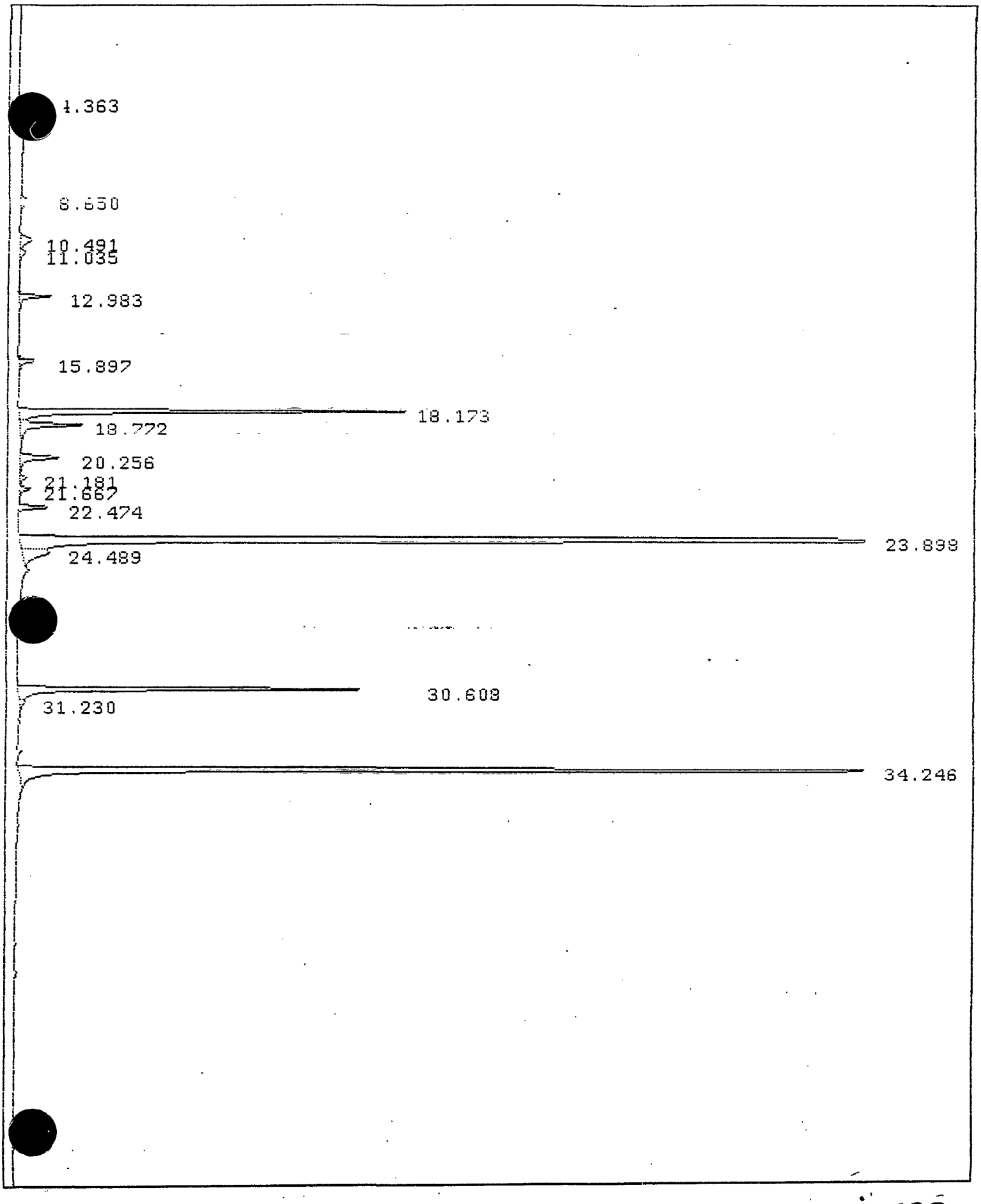
Integration Parameters: Run Time - 53.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .30000 Dilution Factor - 1.00

Timed Events	Time	Event	Logic	Value	EventUpdate
1	24.900	ResetBLAtValle	Event	-1.00	False
2	31.900	SetPeakWidth	Event	.05	False
3	33.300	SetPeakWidth	Event	.10	False

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
3	6.03	6.07	1139	14201	VV	6.11	VINYL CHLORIDE
17	18.17	#18.13	309	2716	VV	.11	CIS-1,2-DICHLOROETHENE
20	21.73	#21.69	80	748	VV	.01	BENZENE
22	22.50	#22.46	57442	458217	VV	100.34	SURR-FBENZENE
24	23.90	#23.86	9914	74033	VV	3.43	TRICHLOROETHENE
30	28.32	#28.28	264	2327	VV	.04	TOLUENE
33	30.60	#30.56	7096	52957	VV	3.12	TETRACHLOROETHENE
*35	33.51	#33.61	23450	140702	BV	4.94	ETHYLBENZENE
36	33.92	#33.89	121	1107	VV	.02	M-XYLENE
37	34.24	#34.21	66018	421656	VV		ISTD-1CL2FBENZENE
3	35.56	#35.52	61	433	VV	.01	STYRENE
42	36.91	#36.72	61	524	VV	.01	CUMENE
45	38.20	#38.16	13	125	PV	.00	N-PROPYLBENZENE
47	38.72	#38.76	26	180	VV	.00	O-CHLOROTOLUENE
48	38.97	#38.93	42	321	VV	.01	P-CHLOROTOLUENE
51	40.07	#40.14	472	3140	VV	.08	1,2,4-TRIMETHYLBENZENE
54	41.04	#40.79	30	198	PV	.01	SEC-BUTYLBENZENE
55	41.32	#41.29	20	130	VV	.00	P-ISOPROPYLTOLUENE
56	41.61	#41.56	26	381	VV	.00	M-DICHLOROBENZENE
57	41.97	#41.94	649	3751	PV	.09	P-DICHLOROBENZENE
60	43.30	#43.27	202	1355	VV	.04	O-DICHLOROBENZENE
73	49.44	49.47	43	615	VV	.01	1,2,4-TRICHLOROBENZENE
74	50.04	50.05	28	430	VV	.01	HEXACHLOROBUTADIENE
76	50.35	50.38	77	534	VV	.02	NAPHTHALENE
78	51.30	51.32	38	313	VB	.01	1,2,3-TRICHLOROBENZENE

Internal Standard Range: 51808 - 77712 (Midpoint - 64760)

Using initial calibration files.
Reported on Fri Sep 25, 1992 2:49:18 am
Report Formatfile: /DATA/FORMAT/CAPPID.FMT



SAMPLE NAME: 1868438
Resultfile: /CAP/RESULT/H13_268_460.RES
Plot Fields: 3000 - 5500 Instrument - HP5890#13HA

102

AR303758

Sample Name: 1868438
Batch # 92268/A13 Injected on Fri Sep 25, 1992 6:15:06 am

Instrument: HP5890#13HALL Employee #768
Calculation: ExternalSTD Quantitation: HeightUnits
Re ltfile: /CAP/RESULT/H13_268_460.RES
Me odfile: /CAP/METHOD/H13_268N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
105m x 0.53mm ID fused silica RTX-502.2 column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 04177

Integration Parameters: Run Time - 53.00
Threshold - 4.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 5.00

Timed Events	Time	Event	Logic	Value	EventUpdate
1	33.000	SetPeakWidth	Event	.05	False

Pk#	RT	IDTime	Height	Area	Code	ug/L	Peak Name
2	8.65	8.64	72	1542	BB	.33	TRICHLOROFLUOROMETHANE
4	11.03	#11.05	73	1051	VB	.31	1,1-DICHLOROETHENE
5	12.98	#12.99	399	3747	BB	.34	METHYLENE CHLORIDE
6	15.90	#15.90	195	2099	BB	.62	1,1-DICHLOROETHANE
7	18.17	#18.19	4901	42438	BV	10.92	CIS-1,2-DICHLOROETHENE
8	18.77	#18.77	756	9238	VB	.88	CHLOROFORM
9	20.26	#20.26	459	5576	BB	1.21	1,1,1-TRICHLOROETHANE
10	21.18	#21.17	76	883	BV	.19	CARBON TETRACHLORIDE
11	21.67	#21.66	134	1188	VB	.29	1,2-DICHLOROETHANE
13	23.90	#23.92	33601	264891	BV	62.98	TRICHLOROETHENE
14	24.49	#24.52	330	6350	VV	.97	1,2-DICHLOROPROPANE
15	30.61	#30.63	4595	36001	BV	7.85	TETRACHLOROETHENE
16	31.23	#31.25	80	1274	VB	.34	DIBROMOCHLOROMETHANE
1	34.25	#34.27	19754	138199	BB	541.33	SURR-1CL2FBENZENE 108

Dan/Jon 9/25/92

Reported on Fri Sep 25, 1992 7:09:54 am
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT