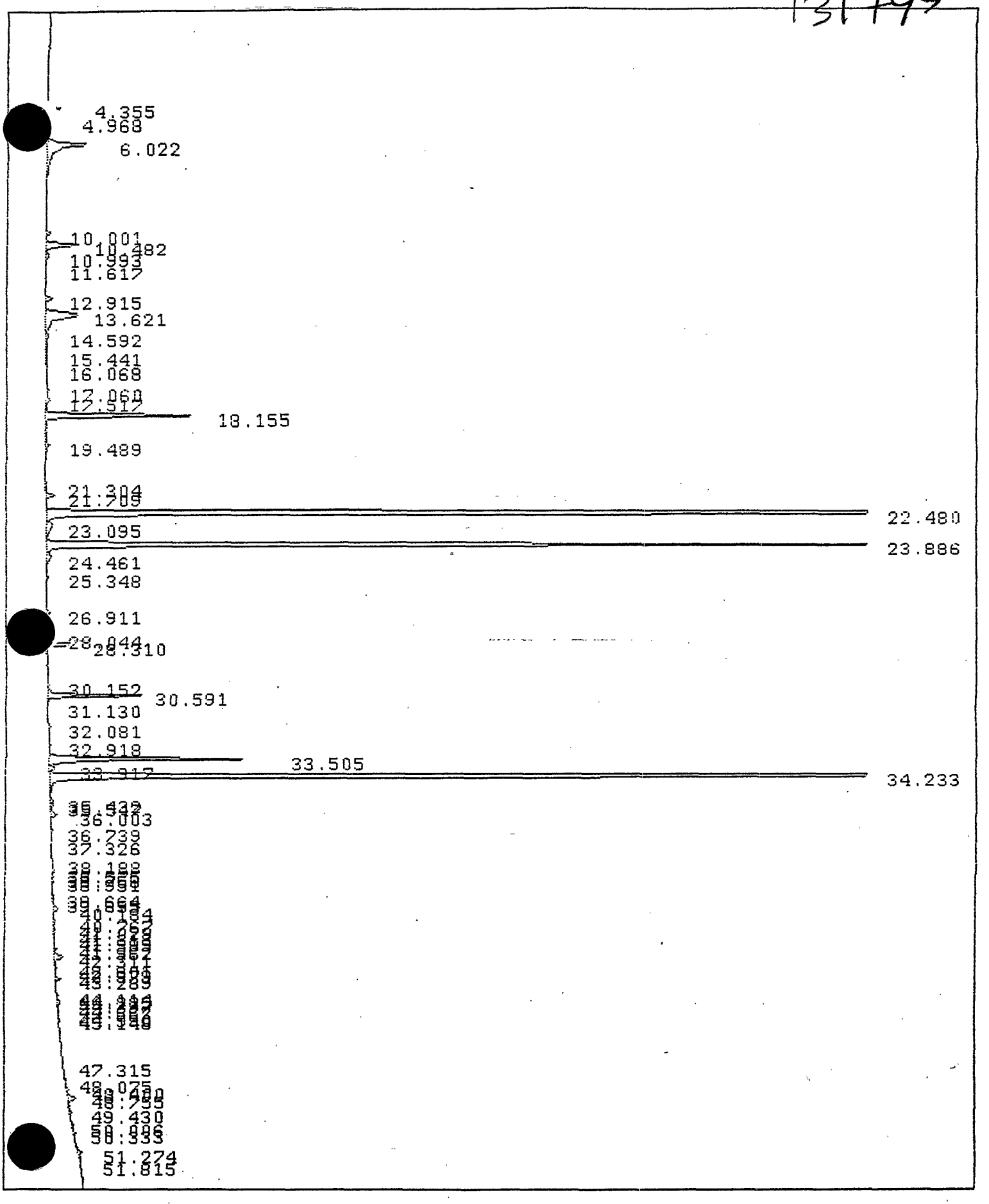
131795




SAMPLE NAME: 1868438
Resultfile: /CAP/RESULT/P13_268_460.RES
Plot Fields: 3000 - 10000 Instrument - HP5890#13PID

AR303760

Sample Name: 1868438
Batch # 92268/A13 Injected on Fri Sep 25, 1992 6:15:06 am

Instrument: HP5890#13PID Employee #768
Calculation: InternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/P13_268_460.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 3350 LAS w. D.[illegible] INSTRUMENT ID# 04177

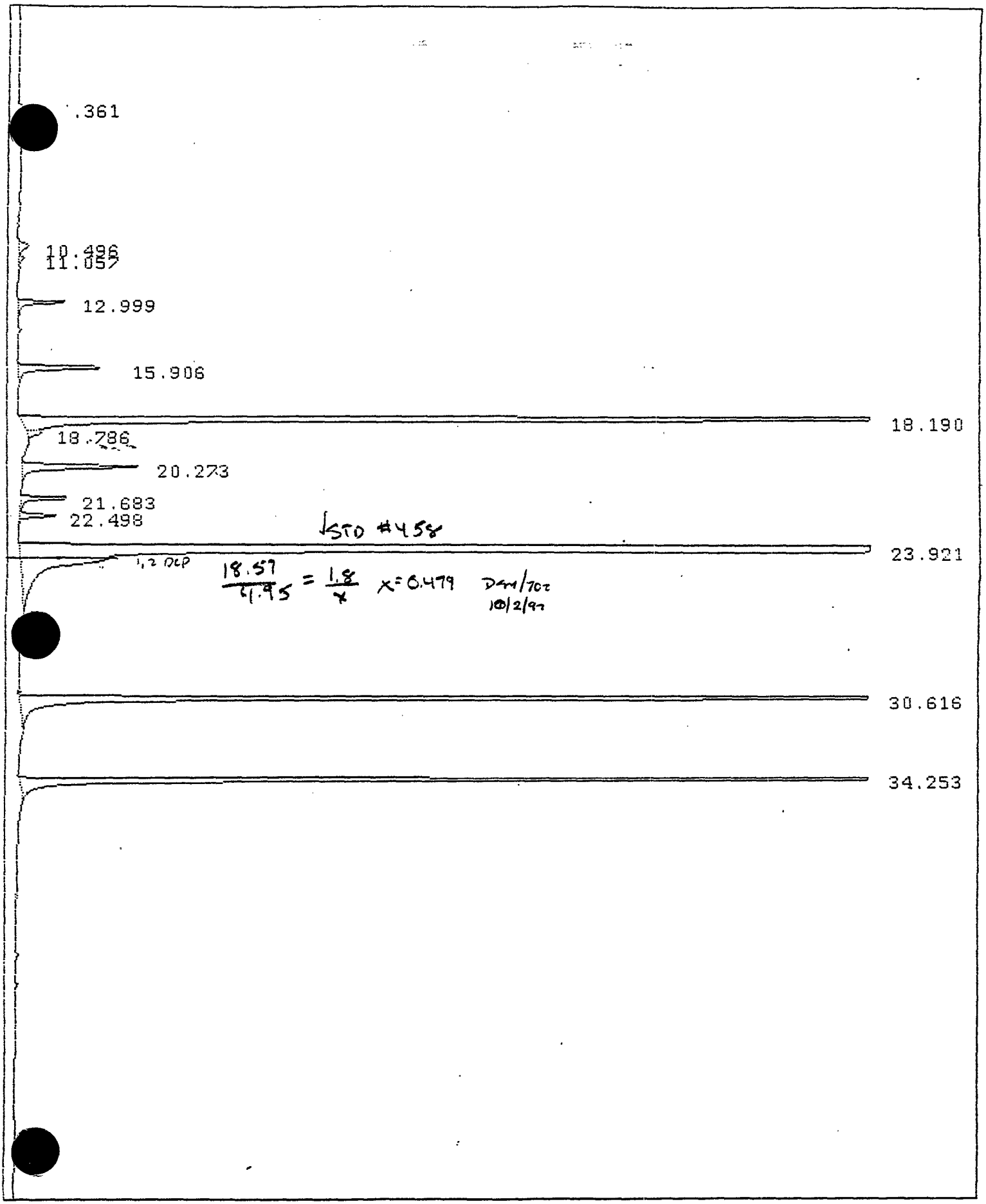
Integration Parameters: Run Time - 53.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .30000 Dilution Factor - 5.00

| 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 | 6.02 | 6.09 | 1346 | 25895 | VV | 31.54 | VINYL CHLORIDE |
| 6 | 10.99 | 11.03 | 122 | 1545 | VV | .45 | 1,1-DICHLOROETHENE |
| 15 | 18.15 | #18.16 | 5021 | 40850 | VV | 10.84 | CIS-1,2-DICHLOROETHENE |
| 18 | 21.71 | #21.72 | 298 | 2951 | VV | .27 | BENZENE |
| 19 | 22.48 | #22.49 | 57734 | 461984 | VV | 498.81 | SURR-FBENZENE 100 [illegible] 7/25/92 |
| 21 | 23.89 | #23.90 | 34505 | 252843 | VV | 59.50 | TRICHLOROETHENE |
| 26 | 28.31 | #28.33 | 904 | 6938 | VV | .71 | TOLUENE |
| 28 | 30.59 | #30.61 | 3517 | 25651 | VV | 7.41 | TETRACHLOROETHENE |
| 32 | 33.50 | #33.44 | 7515 | 53657 | PV | 6.03 | CHLOROBENZENE |
| 33 | 33.92 | #33.94 | 207 | 1662 | VV | .15 | M-XYLENE |
| 34 | 34.23 | #34.26 | 66738 | 426593 | VV | | ISTD-1CL2FBENZENE |
| 3[illegible] | 35.55 | #35.57 | 73 | 569 | VV | .04 | STYRENE |
| 38 | 36.74 | #36.76 | 55 | 602 | VB | .06 | CUMENE |
| 40 | 38.19 | #38.20 | 43 | 399 | PV | .04 | N-PROPYLBENZENE |
| 41 | 38.57 | #38.80 | 51 | 519 | VV | .04 | O-CHLOROTOLUENE |
| 43 | 38.95 | #38.98 | 52 | 326 | VV | .04 | P-CHLOROTOLUENE |
| 46 | 40.18 | #40.19 | 200 | 2137 | VV | .16 | 1,2,4-TRIMETHYLBENZENE |
| 47 | 40.77 | #40.84 | 55 | 617 | VV | .07 | SEC-BUTYLBENZENE |
| 49 | 41.31 | #41.34 | 29 | 239 | VV | .03 | P-ISOPROPYLTOLUENE |
| 50 | 41.58 | #41.61 | 42 | 331 | VV | .03 | M-DICHLOROBENZENE |
| 51 | 41.96 | #42.00 | 86 | 578 | PV | .06 | P-DICHLOROBENZENE |
| 53 | 42.80 | #42.83 | 59 | 648 | VV | .06 | N-BUTYLBENZENE |
| 55 | 43.29 | #43.32 | 214 | 1454 | VV | .19 | O-DICHLOROBENZENE |
| 66 | 49.43 | 49.47 | 63 | 465 | VV | .09 | 1,2,4-TRICHLOROBENZENE |
| 67 | 50.01 | 50.05 | 71 | 665 | PV | .15 | HEXACHLOROBUTADIENE |
| 68 | 50.33 | 50.38 | 84 | 666 | VV | .10 | NAPHTHALENE |
| 69 | 51.27 | 51.32 | 118 | 1457 | PV | .18 | 1,2,3-TRICHLOROBENZENE |

Internal Standard Range: 51808 - 77712 (Midpoint - 64760)

Using initial calibration files.
Reported on Fri Sep 25, 1992 7:12:19 am
Report Formatfile: /DATA/FORMAT/CAPPID.FMT




SAMPLE NAME: 1868438
Resultfile: /CAP/RESULT/H13_268_461.RES
Plot Fields: 3000 - 5500 Instrument - HP5890#13HALL

106

AR303762

Sample Name: 1868438
Batch # 92268/A13 Injected on Fri Sep 25, 1992 7:52:09 am

Instrument: HP5890#13HALL Employee #768
Calculation: ExternalSTD Quantitation: HeightUnits
Re ltfile: /CAP/RESULT/H13_268_461.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

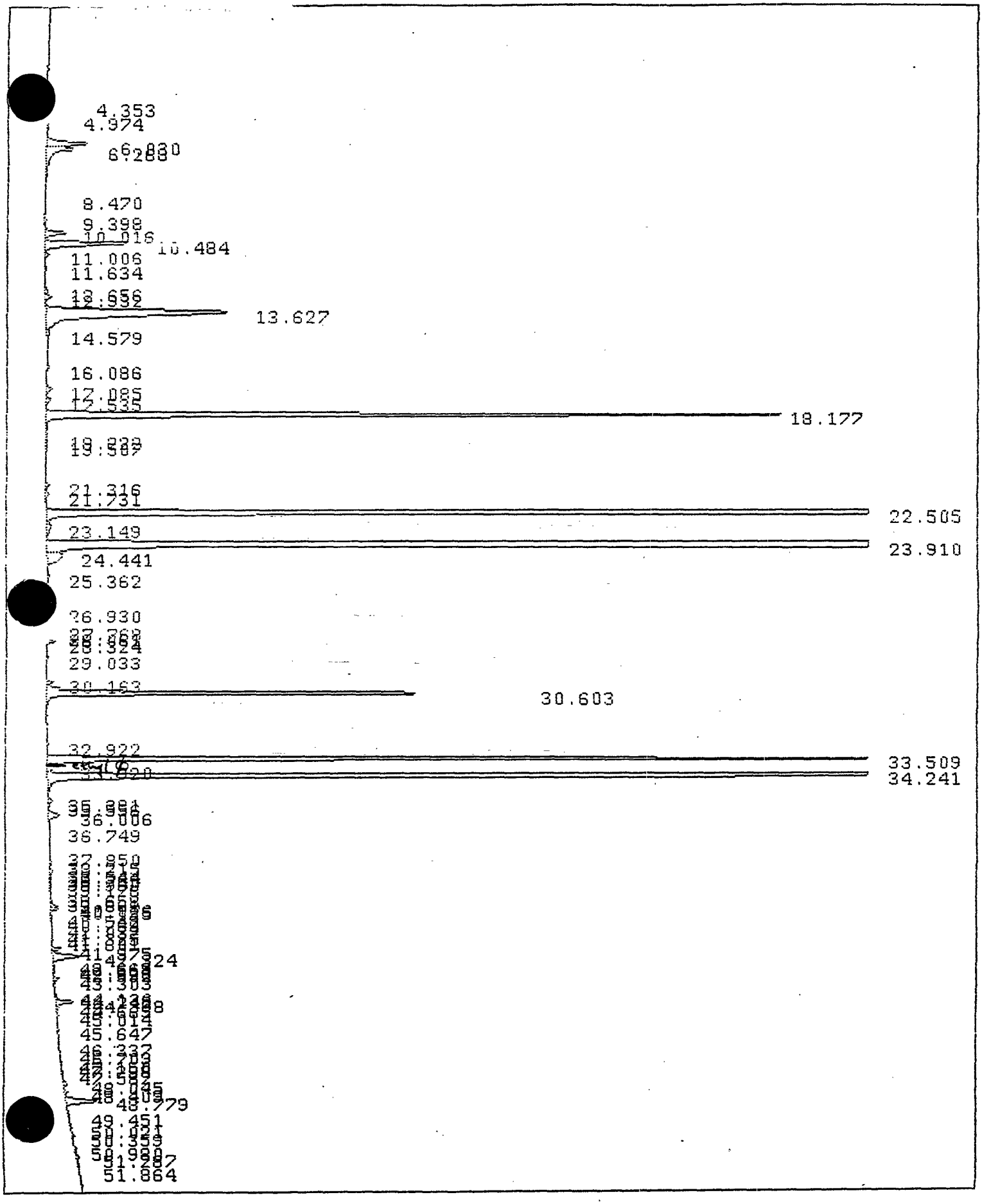
Integration Parameters: Run Time - 53.00
Threshold - 4.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 1.00

| 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 | 11.06 | #11.05 | 71 | 966 | VV | .06 | 1,1-DICHLOROETHENE |
| 4 | 13.00 | #12.99 | 593 | 5639 | BB | ~~10~~ | METHYLENE CHLORIDE <3 Dan/Tan 9/25/92 |
| 5 | 15.91 | #15.90 | 1034 | 11439 | BB | .72 | 1,1-DICHLOROETHANE |
| 6 | 18.19 | #18.19 | 25576 | 217036 | BV | 11.24 | CIS-1,2-DICHLOROETHENE |
| 7 | 18.79 | #18.77 | 184 | 2121 | VB | .04 | CHLOROFORM |
| 8 | 20.27 | #20.26 | 1368 | 16327 | BB | .80 | 1,1,1-TRICHLOROETHANE |
| 9 | 21.68 | #21.66 | 659 | 5951 | BV | .29 | 1,2-DICHLOROETHANE |
| 11 | 23.92 | #23.92 | 149051 | 1226373 | BB | ~~61.34~~ | TRICHLOROETHENE 62.98 Dan/Tan 9/25/92 |
| 12 | 30.62 | #30.63 | 20488 | 160563 | BV | 6.73 | TETRACHLOROETHENE |
| 13 | 34.25 | #34.27 | 19613 | 137254 | BB | 107.49 | SURR-1CL2FBENZENE |

Reported on Fri Sep 25, 1992 9:05:52 am
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT

TCE = 62.98 [OF 5] # 460
1,2 DCP <1




SAMPLE NAME: 1868438

*Resultfile: /CAP/RESULT/P13_268_461.RES*

Plot Fields: 3000 - 10000 Instrument - HP5890#13PID



AR303764

Sample Name: 1868438
Batch # 92268/A13 Injected on Fri Sep 25, 1992 7:52:09 am

Instrument: HP5890#13PID Employee #702
Calculation: InternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/P13_268_461.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

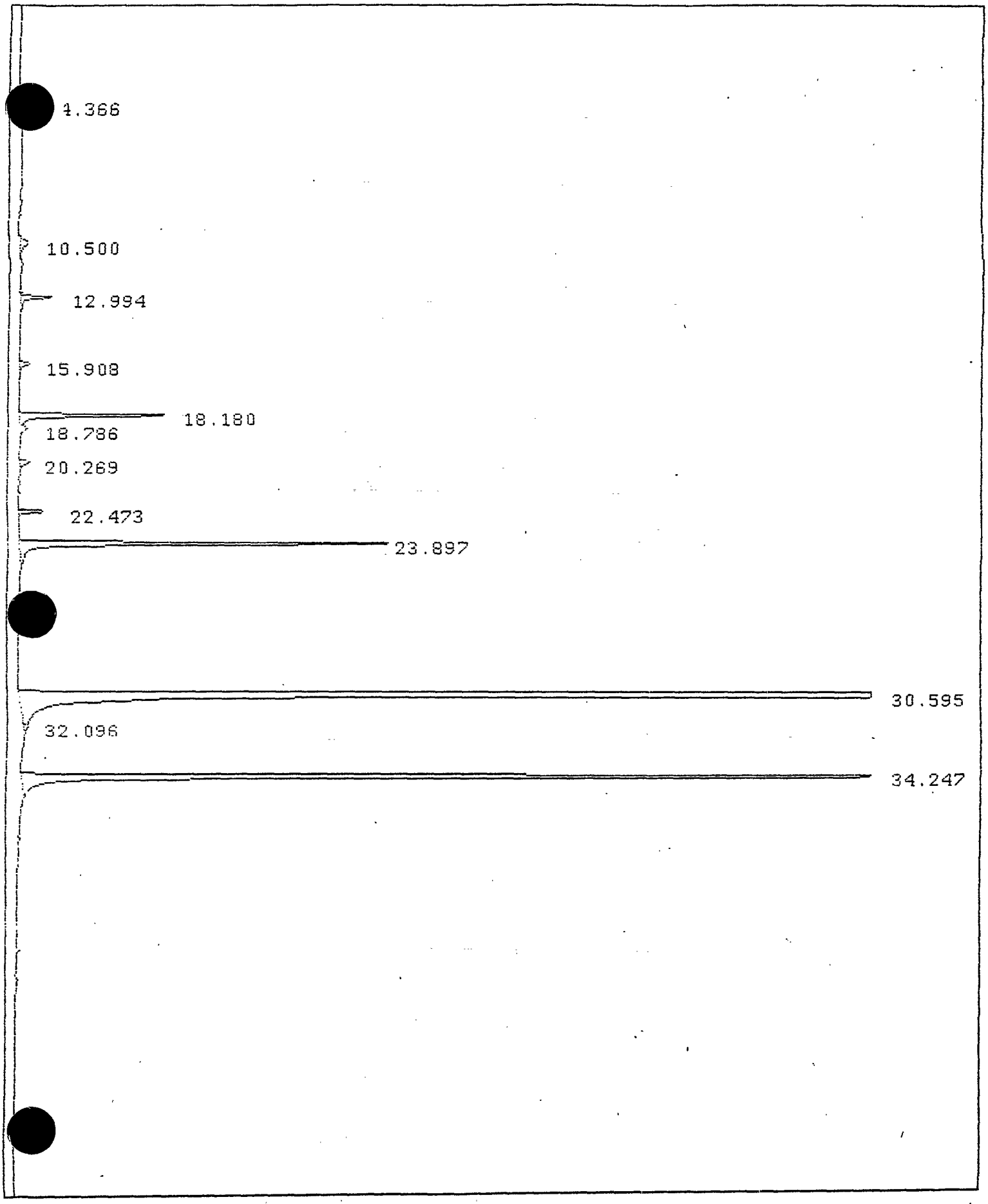
Integration Parameters: Run Time - 53.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .30000 Dilution Factor - 1.00

| 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 | 6.09 | 1394 | 16995 | VV | 6.36 | VINYL CHLORIDE |
| 9 | 11.01 | 11.03 | 137 | 1776 | VV | .10 | 1,1-DICHLOROETHENE |
| 18 | 18.18 | #18.16 | 26008 | 208669 | PV | 11.42 | CIS-1,2-DICHLOROETHENE |
| 22 | 21.73 | #21.72 | 102 | 1339 | VV | .02 | BENZENE |
| 23 | 22.51 | #22.49 | 57520 | 460873 | PV | 99.31 | SURR-FBENZENE |
| 25 | 23.91 | #23.90 | 174855 | 1276872 | VV | 60.95 | TRICHLOROETHENE |
| 31 | 28.32 | #28.33 | 293 | 2645 | VV | .05 | TOLUENE |
| 32 | 29.03 | #28.92 | 64 | 520 | VV | .02 | TRANS-1,3-DICHLOROPROPENE |
| 34 | 30.60 | #30.61 | 15243 | 110798 | VV | 6.69 | TETRACHLOROETHENE |
| 36 | 33.51 | #33.44 | 42685 | 250266 | BV | 7.20 | CHLOROBENZENE |
| 37 | 33.92 | #33.94 | 251 | 2374 | VV | .04 | M-XYLENE |
| 38 | 34.24 | #34.26 | 66792 | 427957 | VV | | ISTD-1CL2FBENZENE |
| 40 | 35.56 | #35.57 | 60 | 432 | VV | .01 | STYRENE |
| 42 | 36.75 | #36.76 | 49 | 503 | BV | .01 | CUMENE |
| 44 | 38.22 | #38.20 | 46 | 484 | PV | .01 | N-PROPYLBENZENE |
| 46 | 38.77 | #38.80 | 55 | 387 | VV | .01 | O-CHLOROTOLUENE |
| 47 | 38.96 | #38.98 | 57 | 394 | VV | .01 | P-CHLOROTOLUENE |
| 51 | 40.08 | #40.19 | 251 | 1702 | VV | .04 | 1,2,4-TRIMETHYLBENZENE |
| 54 | 40.77 | #40.84 | 47 | 408 | VV | .01 | SEC-BUTYLBENZENE |
| 56 | 41.32 | #41.34 | 26 | 186 | BV | .01 | P-ISOPROPYLTOLUENE |
| 57 | 41.60 | #41.61 | 27 | 281 | VV | .00 | M-DICHLOROBENZENE |
| 58 | 41.98 | #42.00 | 320 | 1926 | PV | .05 | P-DICHLOROBENZENE |
| 61 | 42.83 | #42.83 | 71 | 627 | VV | .01 | N-BUTYLBENZENE |
| 63 | 43.30 | #43.32 | 212 | 1513 | VB | .04 | O-DICHLOROBENZENE |
| 78 | 49.45 | 49.47 | 55 | 500 | VV | .02 | 1,2,4-TRICHLOROBENZENE |
| 79 | 50.02 | 50.05 | 42 | 506 | PV | .02 | HEXACHLOROBUTADIENE |
| 80 | 50.36 | 50.38 | 91 | 769 | VV | .02 | NAPHTHALENE |
| 82 | 51.29 | 51.32 | 102 | 1378 | VV | .03 | 1,2,3-TRICHLOROBENZENE |

Internal Standard Range: 51808 - 77712 (Midpoint - 64760)

Using initial calibration files.
Reported on Fri Sep 25, 1992 8:53:05 am
Report Formatfile: /DATA/FORMAT/CAPPID.FMT




SAMPLE NAME: 1868439
Resultfile: /CAP/RESULT/H13_268_462.RES
Plot Fields: 3000 - 5500 Instrument - HP5890#13HALL



AR303766

Sample Name: 1868439
Batch # 92268/A13 Injected on Fri Sep 25, 1992 9:19:40 am

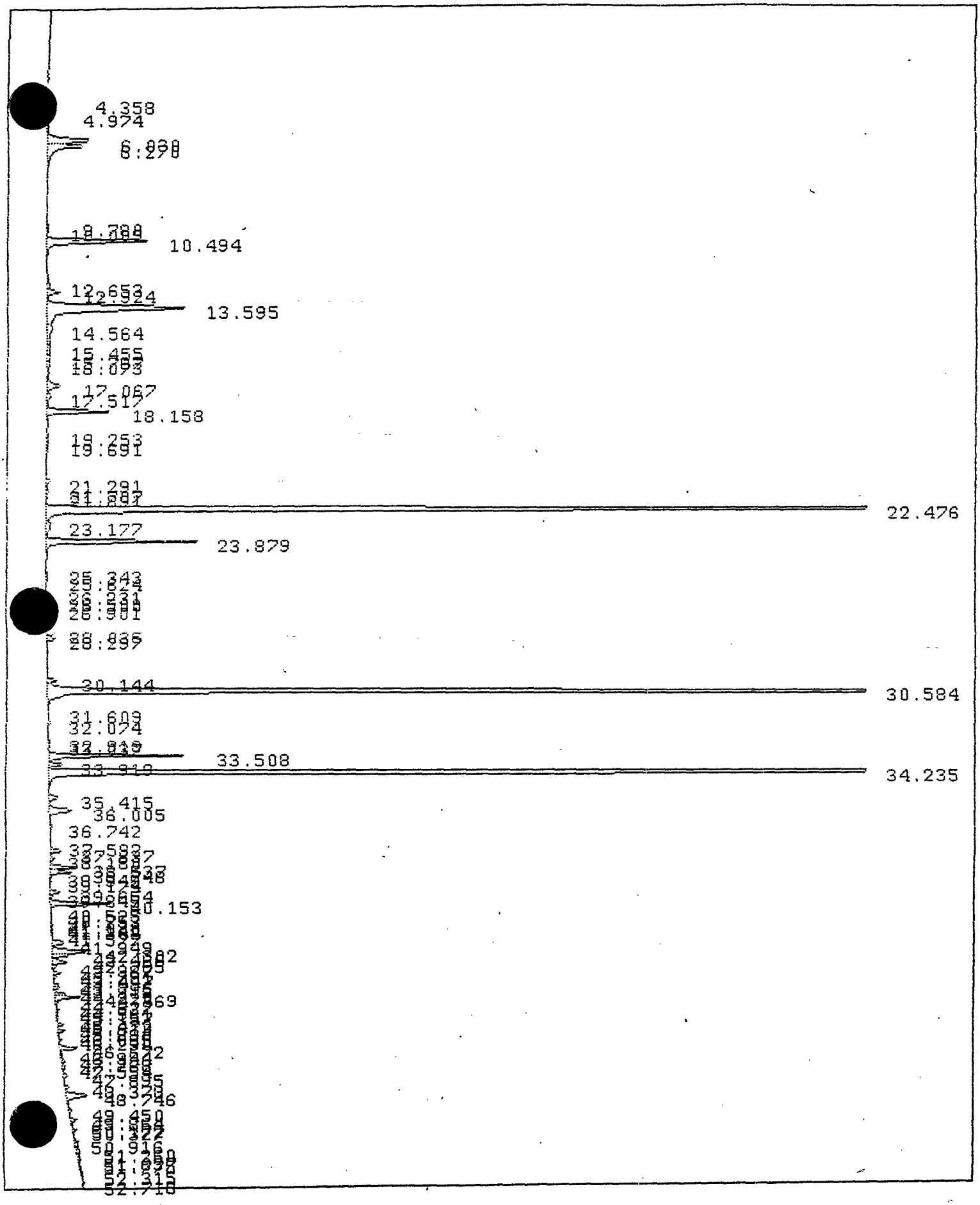
Instrument: HP5890#13HALL Employee #702
Calculation: Externa STD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/H13_268_462.RES
M odfile: /CAP/METHOD/H13_268N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
105m x 0.53mm ID fused silica RTX-502.2 column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 04177

Integration Parameters: Run Time - 53.00
Threshold - 4.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 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 | 12.99 | #12.99 | 385 | 3540 | BB | ~~.07~~ | METHYLENE CHLORIDE <5 DSM/702 9/25/92 |
| 4 | 15.91 | #15.90 | 124 | 1313 | BB | .08 | 1,1-DICHLOROETHANE |
| 5 | 18.18 | #18.19 | 1895 | 16731 | BV | .99 | CIS-1,2-DICHLOROETHENE |
| 6 | 18.79 | #18.77 | 86 | 1150 | VB | .02 | CHLOROFORM |
| 7 | 20.27 | #20.26 | 129 | 1541 | BB | .07 | 1,1,1-TRICHLOROETHANE |
| 9 | 23.90 | #23.92 | 4827 | 39627 | BB | 1.83 | TRICHLOROETHENE |
| 10 | 30.60 | #30.63 | 69168 | 537826 | BV | 25.42 | TETRACHLOROETHENE |
| 11 | 32.10 | #31.97 | 61 | 846 | VB | .11 | ETHYLENE DIBROMIDE |
| 12 | 34.25 | #34.27 | 19178 | 135056 | BB | 105.11 | SURR-1CL2FBENZENE |

Reported on Fri Sep 25, 1992 10:14:34 am
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT




SAMPLE NAME: 1868439
Resultfile: /CAP/RESULT/P13_268_462.RES
Plot Fields: 3000 - 10000 Instrument - HP5890#13PID

AR303768

Sample Name: 1868439
Batch # 92268/A13 Injected on Fri Sep 25, 1992 9:19:40 am

Instrument: HP5890#13PID Employee #702
Calculation: InternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/P13_268_462.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 |

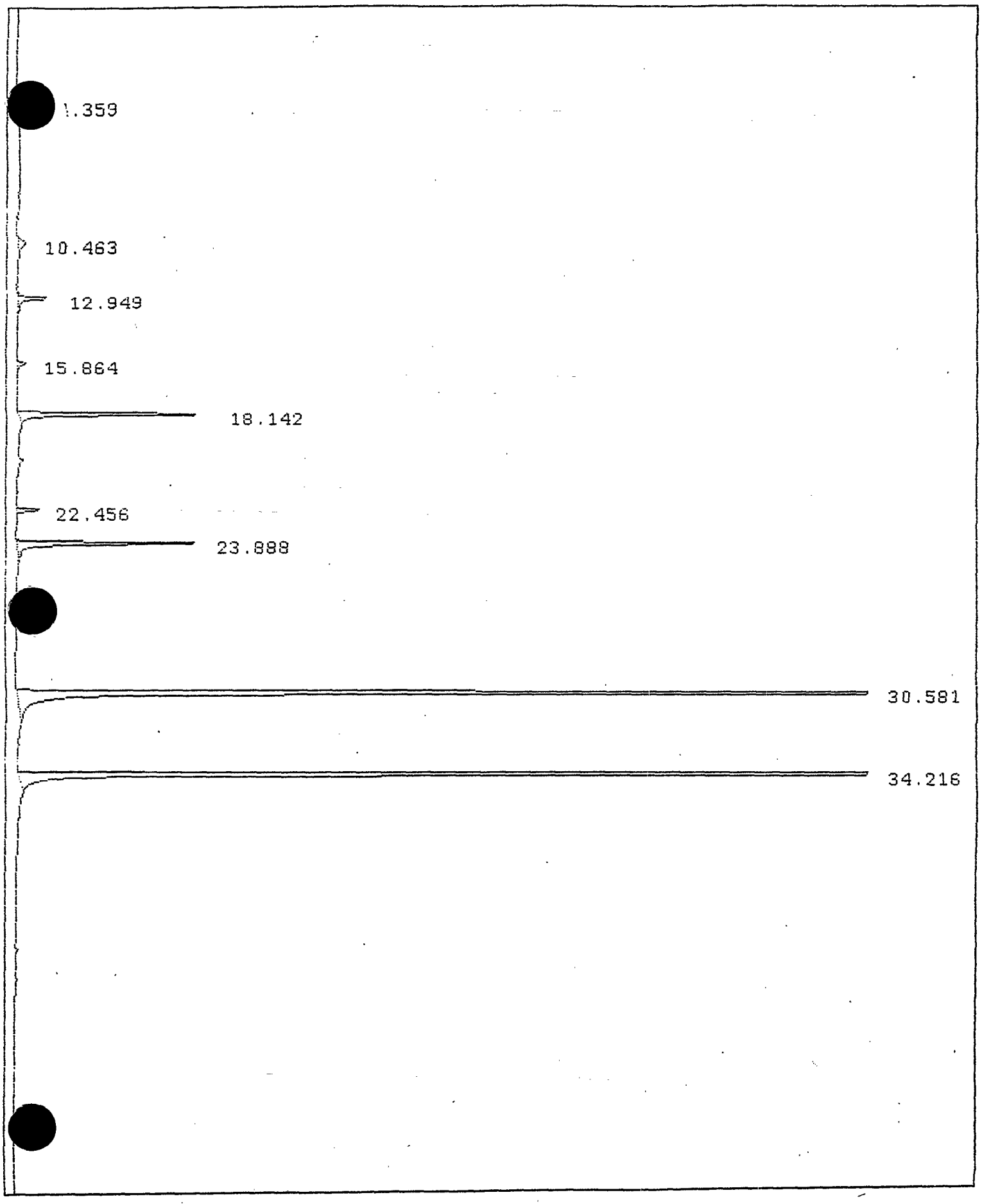
| Pk# | RT | IDTime | Height | Area | Code | ug/L | Peak Name |
|---|---|---|---|---|---|---|---|
| 3 | 6.03 | 6.09 | 1436 | 17325 | VV | 6.42 | VINYL CHLORIDE |
| 17 | 18.16 | #18.16 | 2177 | 18440 | VV | .87 | CIS-1,2-DICHLOROETHENE |
| 21 | 21.71 | #21.72 | 74 | 800 | VV | .01 | BENZENE |
| 23 | 22.48 | #22.49 | 56500 | 453903 | VV | 99.07 | SURR-FBENZENE |
| 25 | 23.88 | #23.90 | 5333 | 40290 | VV | 1.83 | TRICHLOROETHENE |
| 32 | 28.30 | #28.33 | 318 | 2535 | VV | .05 | TOLUENE |
| 34 | 30.58 | #30.61 | 55547 | 394198 | VV | 24.95 | TETRACHLOROETHENE |
| 39 | 33.51 | #33.44 | 5122 | 33143 | BV | .78 | CHLOROBENZENE |
| 40 | 33.92 | #33.94 | 533 | 3772 | VV | .08 | M-XYLENE |
| 41 | 34.23 | #34.26 | 65768 | 420273 | VB | | ISTD-1CL2FBENZENE |
| 44 | 36.74 | #36.76 | 86 | 839 | BV | .02 | CUMENE |
| 4 | 38.18 | #38.20 | 153 | 1263 | VV | .03 | N-PROPYLBENZENE |
| 45 | 38.75 | #38.80 | 755 | 5173 | VV | .12 | O-CHLOROTOLUENE |
| 50 | 38.95 | #38.98 | 65 | 432 | VV | .01 | P-CHLOROTOLUENE |
| 54 | 40.15 | #40.19 | 2126 | 15827 | VV | .35 | 1,2,4-TRIMETHYLBENZENE |
| 57 | 41.02 | #40.84 | 23 | 119 | PV | .01 | SEC-BUTYLBENZENE |
| 59 | 41.30 | #41.34 | 25 | 127 | VB | .01 | P-ISOPROPYLTOLUENE |
| 60 | 41.58 | #41.61 | 18 | 120 | BV | .00 | M-DICHLOROBENZENE |
| 61 | 41.95 | #42.00 | 406 | 4007 | PV | .06 | P-DICHLOROBENZENE |
| 64 | 42.79 | #42.83 | 472 | 4306 | VV | .10 | N-BUTYLBENZENE |
| 66 | 43.28 | #43.32 | 250 | 1695 | VV | .05 | O-DICHLOROBENZENE |
| 87 | 49.45 | 49.47 | 66 | 778 | VV | .02 | 1,2,4-TRICHLOROBENZENE |
| 90 | 50.33 | 50.38 | 151 | 1129 | VV | .04 | NAPHTHALENE |
| 92 | 51.26 | 51.32 | 120 | 1587 | VV | .04 | 1,2,3-TRICHLOROBENZENE |

Internal Standard Range: 51808 - 77712 (Midpoint - 64760)

Using initial calibration files.
Reported on Fri Sep 25, 1992 10:18:31 am
Report Formatfile: /DATA/FORMAT/CAPPID.FMT



AR303769




SAMPLE NAME: 1868440
Resultfile: /CAP/RESULT/H13_268_463.RES
Plot Fields: 3000 - 5500 Instrument - HP5890#13HALL



AR303770

Sample Name: 1868440
Batch # 92268/A13 Injected on Fri Sep 25, 1992 10:35:14 am

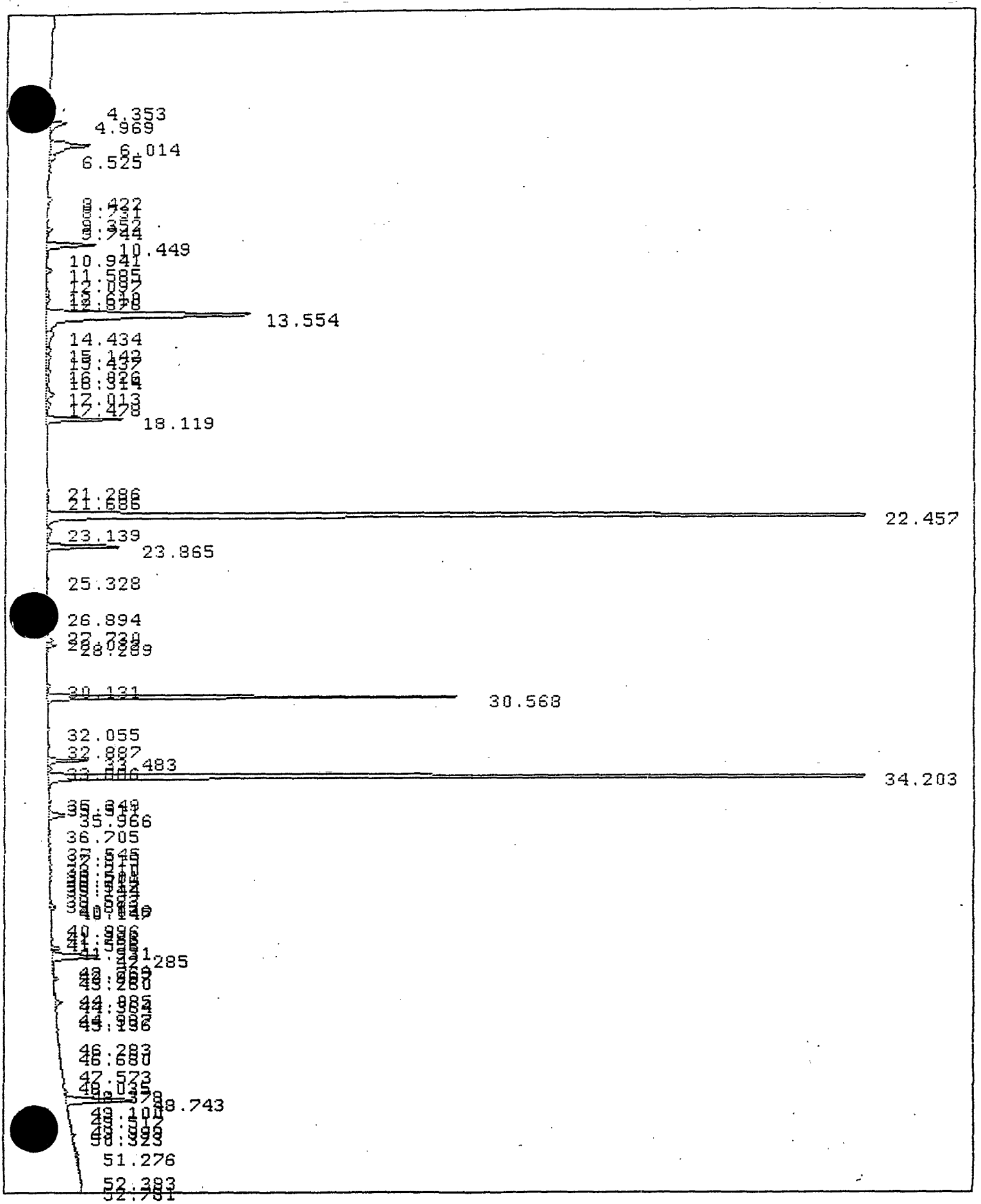
Instrument: HP5890#13HALL Employee #702
Calculation: ExternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/H13_268_463.RES
Me dfile: /CAP/METHOD/H13_268N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
105m x 0.53mm ID fused silica RTX-502.2 column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT 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 |
|---|---|---|---|---|---|---|---|
| 3 | 12.95 | #12.99 | 384 | 3678 | BB | ~~.07~~ | METHYLENE CHLORIDE <.3 Dam 17cm 9/29/92 |
| 4 | 15.86 | #15.90 | 104 | 1116 | BB | .07 | 1,1-DICHLOROETHANE |
| 5 | 18.14 | #18.19 | 2288 | 19543 | BB | 1.15 | CIS-1,2-DICHLOROETHENE |
| 7 | 23.89 | #23.92 | 2221 | 18857 | BB | .98 | TRICHLOROETHENE |
| 8 | 30.58 | #30.63 | 19414 | 151578 | BV | 6.35 | TETRACHLOROETHENE |
| 9 | 34.22 | #34.27 | 18592 | 130691 | BB | 101.90 | SURR-1CL2FBENZENE |

Reported on Fri Sep 25, 1992 11:33:46 am
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT




SAMPLE NAME: 1868440
Resultfile: /CAP/RESULT/P13_268_463.RES
Plot Fields: 3000 - 10000 Instrument - HP5890#13FID

AR303772

Sample Name: 1868440
Batch # 92268/A13 Injected on Fri Sep 25, 1992 10:35:14 am

Instrument: HP5890#13PID Employee #702
Calculation: InternalSTD Quantitation: HeightUnits
Re. ltfile: /CAP/RESULT/P13_268_463.RES
Me. odfile: /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 |

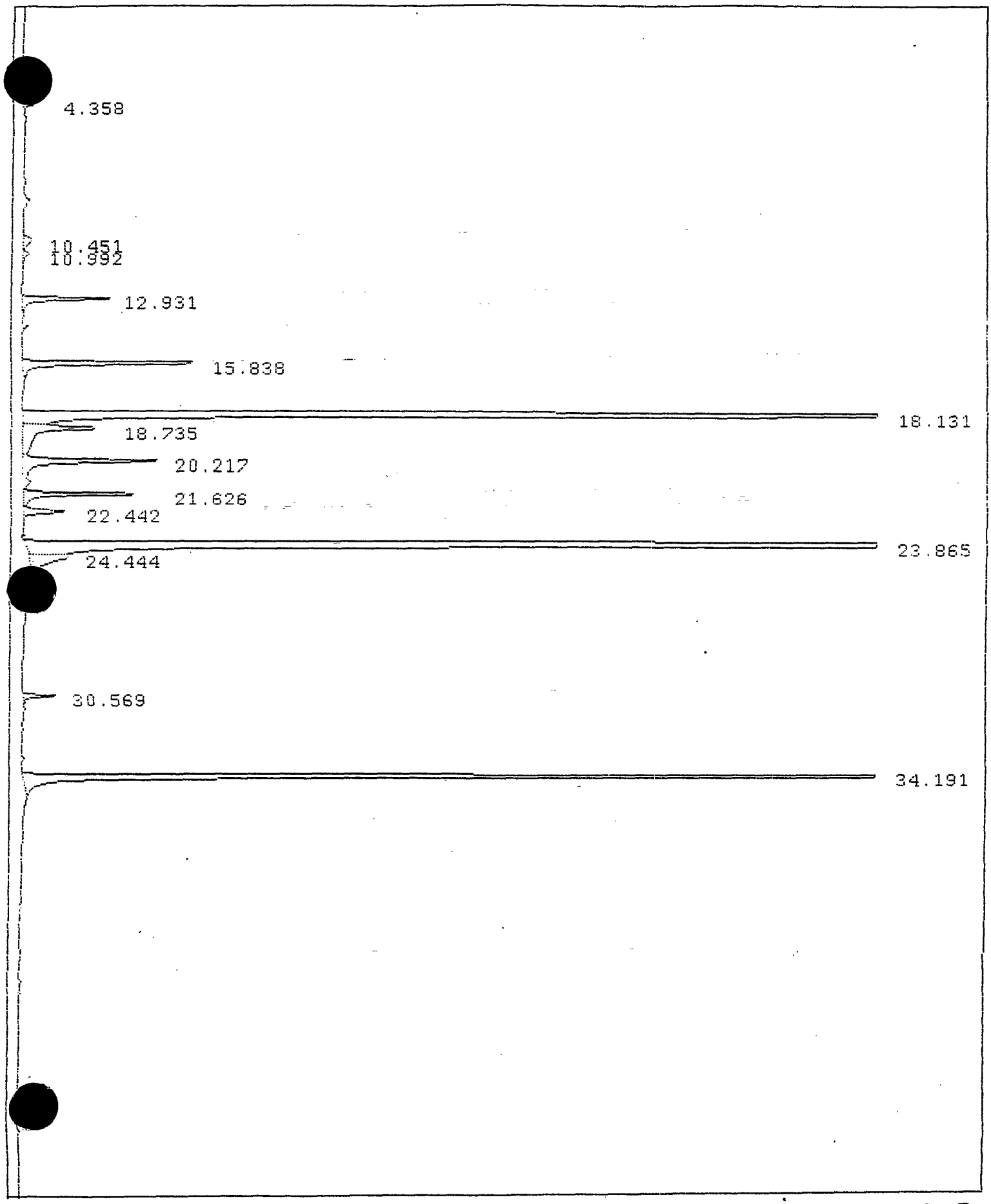
| Pk# | RT | IDTime | Height | Area | Code | ug/L | Peak Name |
|---|---|---|---|---|---|---|---|
| 3 | 6.01 | 6.09 | 1354 | 24310 | VV | 6.42 | VINYL CHLORIDE |
| 10 | 10.94 | 11.03 | 58 | 758 | VV | .05 | 1,1-DICHLOROETHENE |
| 23 | 18.12 | #18.16 | 2656 | 22736 | VV | 1.17 | CIS-1,2-DICHLOROETHENE |
| 25 | 21.69 | #21.72 | 82 | 1423 | VV | .02 | BENZENE |
| 26 | 22.46 | #22.49 | 53145 | 431638 | VV | 98.46 | SURR-FBENZENE |
| 28 | 23.87 | #23.90 | 2666 | 20464 | VV | .90 | TRICHLOROETHENE |
| 33 | 28.29 | #28.33 | 304 | 2578 | VV | .05 | TOLUENE |
| 35 | 30.57 | #30.61 | 14200 | 100468 | VV | 6.69 | TETRACHLOROETHENE |
| 38 | 33.48 | #33.44 | 1589 | 10937 | BV | .23 | CHLOROBENZENE |
| 39 | 33.89 | #33.94 | 140 | 1061 | VV | .02 | M-XYLENE |
| 40 | 34.20 | #34.26 | 62244 | 397025 | VV | | ISTD-1CL2FBENZENE |
| | 35.51 | #35.57 | 52 | 373 | VV | .01 | STYRENE |
| 44 | 36.70 | #36.76 | 41 | 333 | BV | .01 | CUMENE |
| 47 | 38.21 | #38.20 | 58 | 521 | PV | .01 | N-PROPYLBENZENE |
| 49 | 38.72 | #38.80 | 43 | 302 | VV | .01 | O-CHLOROTOLUENE |
| 50 | 38.92 | #38.98 | 60 | 404 | VV | .01 | P-CHLOROTOLUENE |
| 55 | 40.15 | #40.19 | 178 | 1282 | VV | .03 | 1,2,4-TRIMETHYLBENZENE |
| 56 | 41.00 | #40.84 | 25 | 180 | PV | .01 | SEC-BUTYLBENZENE |
| 57 | 41.29 | #41.34 | 19 | 116 | PV | .00 | P-ISOPROPYLTOLUENE |
| 58 | 41.56 | #41.61 | 28 | 296 | VV | .00 | M-DICHLOROBENZENE |
| 59 | 41.93 | #42.00 | 354 | 2055 | PV | .05 | P-DICHLOROBENZENE |
| 61 | 42.77 | #42.83 | 54 | 702 | VV | .01 | N-BUTYLBENZENE |
| 63 | 43.26 | #43.32 | 193 | 1301 | BV | .04 | O-DICHLOROBENZENE |
| 75 | 49.52 | 49.47 | 32 | 575 | VV | .01 | 1,2,4-TRICHLOROBENZENE |
| 76 | 50.00 | 50.05 | 41 | 653 | VV | .02 | HEXACHLOROBUTADIENE |
| 77 | 50.32 | 50.38 | 132 | 1128 | VV | .03 | NAPHTHALENE |
| 78 | 51.28 | 51.32 | 86 | 1990 | VV | .03 | 1,2,3-TRICHLOROBENZENE |

Internal Standard Range: 51808 - 77712 (Midpoint - 64760)

Using initial calibration files.
Reported on Fri Sep 25, 1992 11:36:23 am
Report Formatfile: /DATA/FORMAT/CAPPID.FMT



AR303773




SAMPLE NAME: 1868441
Resultfile: /CAP/RESULT/H13 268 466.RES

AR303774

Sample Name: 1868441
Batch # 92268/A13 Injected on Fri Sep 25, 1992 2:24:14 pm

Instrument: HP5890#13HALL Employee #330
Calculation: ExternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/H13_268_466.RES
Met file: /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 |
|---|---|---|---|---|---|---|---|
| 3 | 10.99 | #11.00 | 70 | 938 | VB | .30 | 1,1-DICHLOROETHENE |
| 4 | 12.93 | #12.95 | 1086 | 10208 | BB | ~~.83~~ | METHYLENE CHLORIDE 1.85 RPD |
| 5 | 15.84 | #15.85 | 2169 | 24022 | BB | 6.29 | 1,1-DICHLOROETHANE |
| 6 | 18.13 | #18.15 | 27505 | 235713 | BV | 60.93 | CIS-1,2-DICHLOROETHENE |
| 7 | 18.73 | #18.75 | 915 | 17180 | VV | 1.07 | CHLOROFORM |
| 8 | 20.22 | #20.23 | 1577 | 21011 | VV | 4.47 | 1,1,1-TRICHLOROETHANE |
| 9 | 21.63 | #21.64 | 1524 | 13997 | VV | 3.46 | 1,2-DICHLOROETHANE |
| 11 | 23.86 | #23.90 | 62955 | 498628 | BV | 124.95 | TRICHLOROETHENE |
| 12 | 24.44 | #24.49 | 453 | 8975 | VV | 1.33 | 1,2-DICHLOROPROPANE |
| 13 | 30.57 | #30.60 | 407 | 3305 | BV | .75 | TETRACHLOROETHENE |
| 14 | 34.19 | #34.23 | 20265 | 140966 | BB | 555.33 | SURR-1CL2FBENZENE |

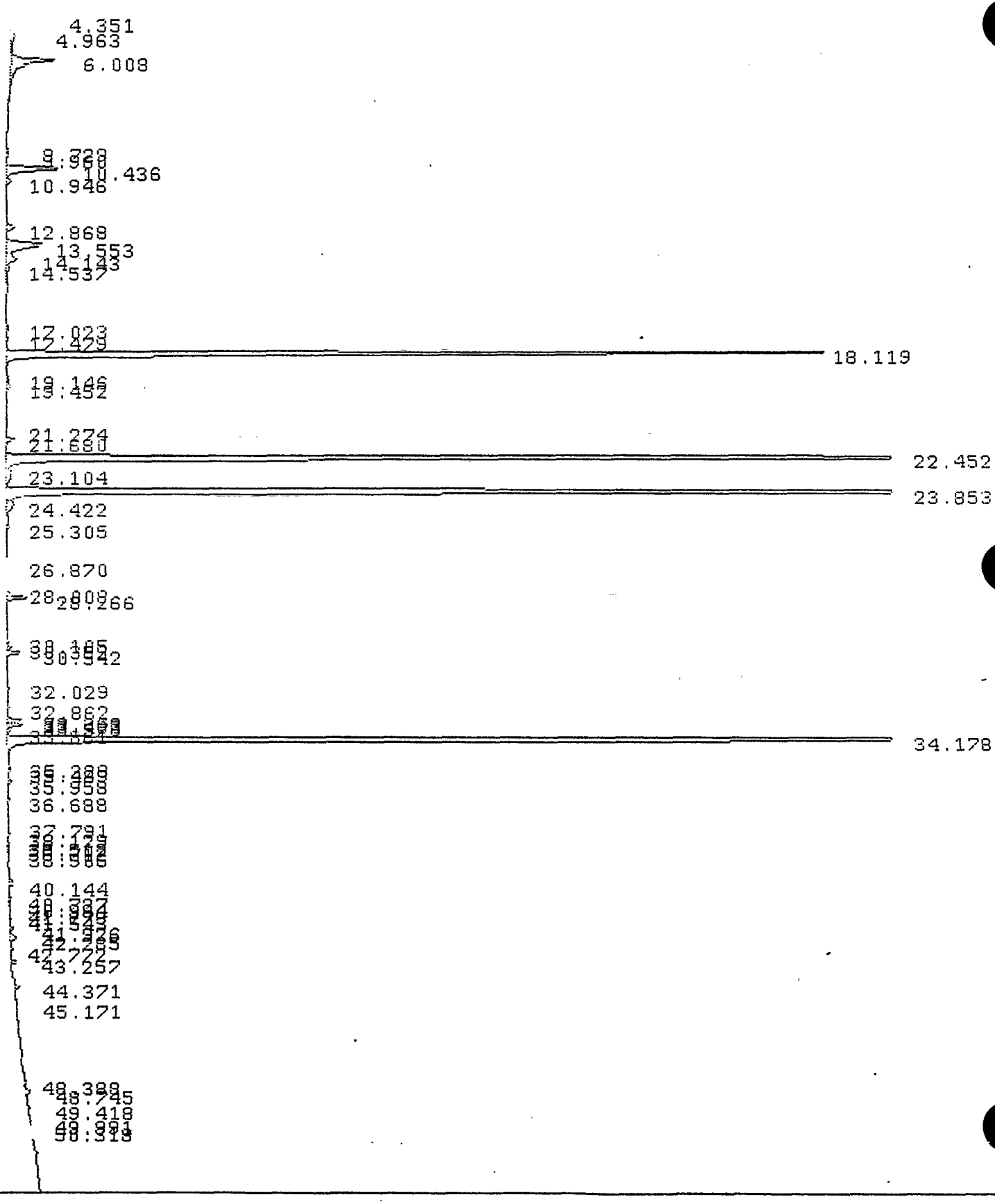
JW330 9-25-92

JW330 9-25-92

Reported on Fri Sep 25, 1992 3:41:51 pm
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT



AR303775




SAMPLE NAME: 1868441
Resultfile: /CAP/RESULT/P13_268_466.RES
Plot Fields: 3000 - 10000 Instrument - HP5890#13PID



AR303776

Sample Name: 1868441
Batch # 92268/A13 Injected on Fri Sep 25, 1992 2:24:14 pm

Instrument: HP5890#13PID Employee #330
Calculation: InternalSTD Quantitation: HeightUnits
'tfile: /CAP/RESULT/P13_268_466.RES
dfile: /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 | 6.01 | 6.08 | 1324 | 23435 | VV | 31.16 | VINYL CHLORIDE |
| 7 | 10.95 | 11.00 | 122 | 1495 | VV | .43 | 1,1-DICHLOROETHENE |
| 10 | 14.14 | #14.18 | 330 | 5122 | VV | .32 | TRANS-1,2-DICHLOROETHENE |
| 14 | 18.12 | #18.14 | 26906 | 215620 | PV | 56.77 | CIS-1,2-DICHLOROETHENE |
| 18 | 21.68 | #21.70 | 241 | 2394 | VV | .21 | BENZENE |
| 19 | 22.45 | #22.48 | 59556 | 475793 | VV | 494.22 | SURR-FBENZENE 99 |
| 21 | 23.85 | #23.89 | 68006 | 496363 | VV | 113.40 | TRICHLOROETHENE |
| 26 | 28.27 | #28.32 | 671 | 5047 | VV | .51 | TOLUENE |
| 29 | 30.54 | #30.59 | 450 | 3299 | VV | .78 | TETRACHLOROETHENE |
| 32 | 33.36 | #33.41 | 465 | 2907 | BV | .31 | CHLOROBENZENE |
| | 33.58 | #33.63 | 449 | 3190 | VV | .37 | ETHYLBENZENE |
| | 33.86 | #33.91 | 118 | 835 | VV | .08 | M-XYLENE |
| 36 | 34.18 | #34.22 | 69482 | 440862 | VV | | ISTD-1CL2FBENZENE |
| 38 | 35.49 | #35.53 | 45 | 305 | VV | .03 | STYRENE |
| 40 | 36.69 | #36.72 | 30 | 179 | BB | .03 | CUMENE |
| 42 | 38.13 | #38.15 | 30 | 210 | PV | .02 | N-PROPYLBENZENE |
| 44 | 38.71 | #38.75 | 29 | 183 | VV | .02 | O-CHLOROTOLUENE |
| 45 | 38.91 | #38.92 | 44 | 253 | VV | .03 | P-CHLOROTOLUENE |
| 46 | 40.14 | #40.14 | 135 | 1244 | BV | .11 | 1,2,4-TRIMETHYLBENZENE |
| 47 | 40.73 | #40.79 | 50 | 486 | PV | .06 | SEC-BUTYLBENZENE |
| 49 | 41.28 | #41.29 | 34 | 269 | VV | .04 | P-ISOPROPYLTOLUENE |
| 50 | 41.54 | #41.56 | 35 | 283 | VV | .03 | M-DICHLOROBENZENE |
| 51 | 41.93 | #41.95 | 120 | 725 | PV | .08 | P-DICHLOROBENZENE |
| 53 | 42.77 | #42.78 | 60 | 544 | VV | .06 | N-BUTYLBENZENE |
| 54 | 43.26 | #43.27 | 217 | 1394 | PV | .19 | O-DICHLOROBENZENE |
| 59 | 49.42 | 49.47 | 50 | 206 | PV | .07 | 1,2,4-TRICHLOROBENZENE |
| 60 | 49.99 | 50.05 | 72 | 606 | VV | .15 | HEXACHLOROBUTADIENE |
| 61 | 50.32 | 50.38 | 53 | 327 | PV | .06 | NAPHTHALENE |

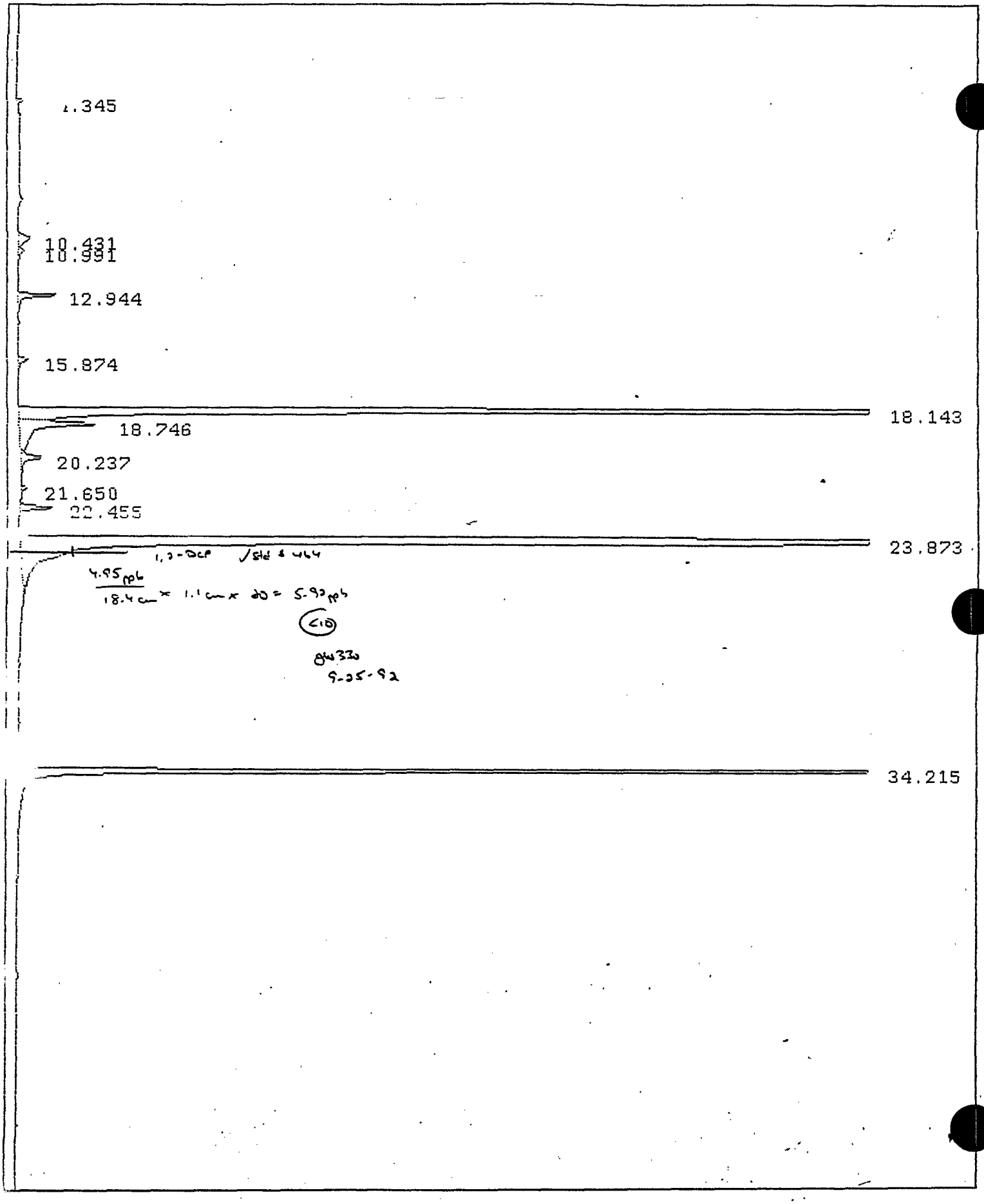
Internal Standard Range: 51808 - 77712 (Midpoint - 64760)

Using initial calibration files.
Reported on Fri Sep 25, 1992 3:23:48 pm
Report Formatfile: /DATA/FORMAT/CAPPID.FMT

8-330
9-25-92



AR303777




SAMPLE NAME: 1868442
Resultfile: /CAP/RESULT/H13_268_467.RES
Plot Fields: 3000 - 5500 Instrument - HP5890#13HALL

AR303778

Sample Name: 1868442
Batch # 92268/A13 Injected on Fri Sep 25, 1992 3:39:24 pm

Instrument: HP5890#13HALL Employee #330
Calculation: ExternalSTD Quantitation: HeightUnits
Re 'tfile: /CAP/RESULT/H13_268_467.RES
ɔdfile: /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 - 20.00

| Timed Events | Time | Event | Logic | Value | EventUpdate |
|---|---|---|---|---|---|
| 1 | 33.000 | SetPeakWidth | Event | .05 | False |

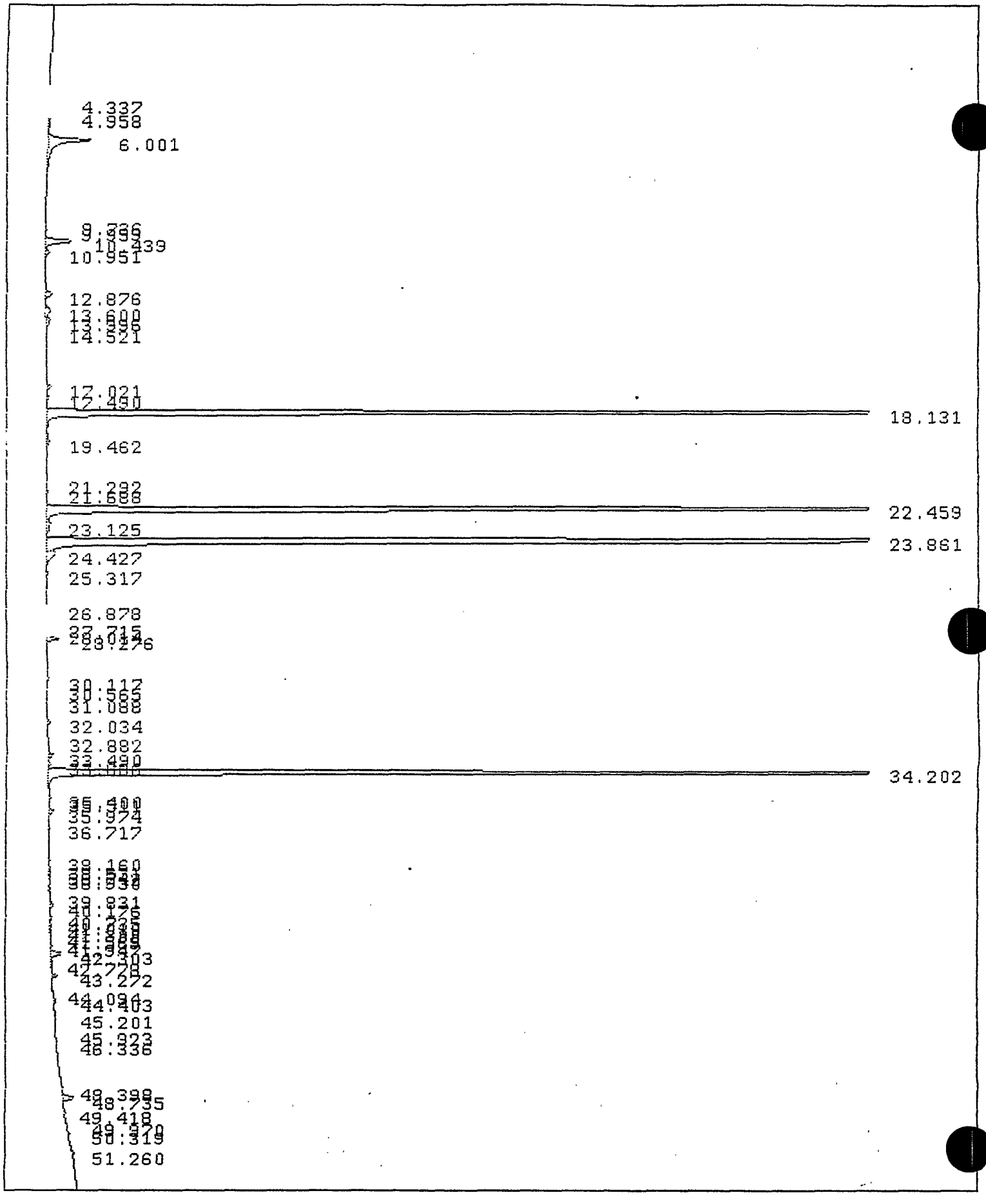
| Pk# | RT | IDTime | Height | Area | Code | ug/L | Peak Name |
|---|---|---|---|---|---|---|---|
| 3 | 10.99 | #11.00 | 63 | 863 | VB | 1.06 | 1,1-DICHLOROETHENE |
| 4 | 12.94 | #12.95 | 499 | 4823 | BB | 1.71 | METHYLENE CHLORIDE |
| 5 | 15.87 | #15.85 | 117 | 1267 | BB | 1.48 | 1,1-DICHLOROETHANE |
| 6 | 18.14 | #18.15 | 36744 | 317008 | BV | 333.91 | CIS-1,2-DICHLOROETHENE |
| 7 | 18.75 | #18.75 | 933 | 18463 | VV | 4.35 | CHLOROFORM |
| 8 | 20.24 | #20.23 | 250 | 3887 | VB | 2.64 | 1,1,1-TRICHLOROETHANE |
| 9 | 21.65 | #21.64 | 65 | 565 | BB | .57 | 1,2-DICHLOROETHANE |
| 11 | 23.87 | #23.90 | 92119 | 756307 | BB | 746.07 | TRICHLOROETHENE |
| 12 | 34.21 | #34.23 | 19159 | 134167 | BB | 2100.13 | SURR-1CL2FBENZENE 105 |

gw330 9-25-92

Reported on Fri Sep 25, 1992 4:34:27 pm
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT



AR303779




SAMPLE NAME: 1868442
Resultfile: /CAP/RESULT/P13_268_467.RES
Plot Fields: 3000 - 10000 Instrument - HP5890#13PID

AR303780

Sample Name: 1868442
Batch # 92268/A13 Injected on Fri Sep 25, 1992 3:39:24 pm

Instrument: HP5890#13PID Employee #330
Calculation: InternalSTD Quantitation: HeightUnits
Re tfile: /CAP/RESULT/P13_268_467.RES
odfile: /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 - 20.00

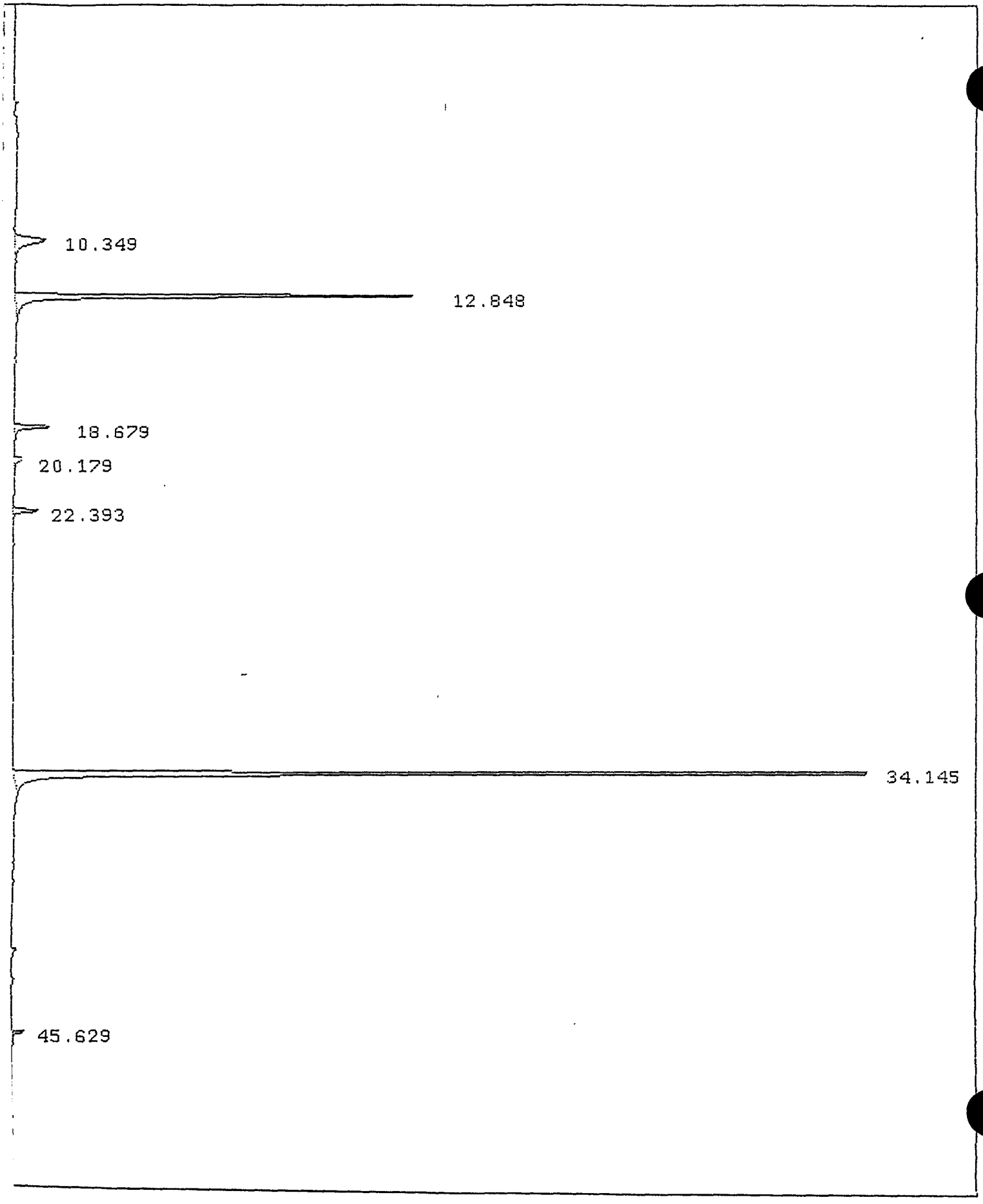
| Timed Events | Time | Event | Logic | Value | EventUpdate |
|---|---|---|---|---|---|
| 1 | 24.900 | ResetBLAtValle | Event | -1.00 | False |
| 2 | 31.900 | SetPeakWidth | Event | .05 | False |
| 3 | 33.300 | SetPeakWidth | Event | .10 | False |

| Pk# | RT | IDTime | Height | Area | Code | ug/L | Peak Name |
|---|---|---|---|---|---|---|---|
| 3 | 6.00 | 6.08 | 1404 | 23735 | VV | 126.93 | VINYL CHLORIDE |
| 7 | 10.55 | 11.00 | 108 | 1321 | VB | 1.55 | 1,1-DICHLOROETHENE |
| 14 | 18.13 | #18.14 | 38025 | 305944 | VV | 329.50 | CIS-1,2-DICHLOROETHENE |
| 17 | 21.69 | #21.70 | 74 | 929 | VV | .26 | BENZENE |
| 18 | 22.46 | #22.48 | 58187 | 469184 | VV | 1979.99 | SURR-FBENZENE 92 |
| 20 | 23.86 | #23.89 | 105211 | 768695 | VV | 721.43 | TRICHLOROETHENE |
| 26 | 29.28 | #28.32 | 439 | 3384 | VV | 1.36 | TOLUENE |
| 28 | 30.56 | #30.59 | 34 | 362 | VV | .24 | TETRACHLOROETHENE |
| 32 | 33.49 | #33.41 | 198 | 1839 | BV | .54 | CHLOROBENZENE |
| 33 | 33.89 | #33.91 | 108 | 767 | VV | .31 | M-XYLENE |
| 34 | 34.20 | #34.22 | 67778 | 433522 | VV | | ISTD-1CL2FBENZENE |
| [illegible] | 35.51 | #35.53 | 31 | 171 | VB | .07 | STYRENE |
| [illegible] | 36.72 | #36.72 | 39 | 361 | BV | .18 | CUMENE |
| 39 | 38.16 | #38.15 | 21 | 179 | VV | .07 | N-PROPYLBENZENE |
| 40 | 38.53 | #38.75 | 27 | 259 | PV | .09 | O-CHLOROTOLUENE |
| 42 | 38.93 | #38.92 | 39 | 262 | VV | .11 | P-CHLOROTOLUENE |
| 44 | 40.18 | #40.14 | 136 | 1356 | VV | .44 | 1,2,4-TRIMETHYLBENZENE |
| 45 | 40.74 | #40.79 | 47 | 394 | PV | .23 | SEC-BUTYLBENZENE |
| 47 | 41.30 | #41.29 | 20 | 177 | BV | .09 | P-ISOPROPYLTOLUENE |
| 48 | 41.57 | #41.56 | 30 | 305 | VB | .09 | M-DICHLOROBENZENE |
| 49 | 41.95 | #41.95 | 64 | 421 | BV | .18 | P-DICHLOROBENZENE |
| 51 | 42.78 | #42.78 | 34 | 484 | VV | .14 | N-BUTYLBENZENE |
| 52 | 43.27 | #43.27 | 206 | 1381 | VV | .74 | O-DICHLOROBENZENE |
| 60 | 49.42 | 49.47 | 32 | 169 | VV | .17 | 1,2,4-TRICHLOROBENZENE |
| 61 | 49.97 | 50.05 | 44 | 220 | PV | .37 | HEXACHLOROBUTADIENE |
| 62 | 50.32 | 50.38 | 50 | 304 | VV | .24 | NAPHTHALENE |
| 63 | 51.26 | 51.32 | 54 | 267 | PV | .32 | 1,2,3-TRICHLOROBENZENE |

Internal Standard Range: 51808 - 77712 (Midpoint - 64760)

Using initial calibration files.
Reported on Fri Sep 25, 1992 4:37:05 pm
ort Formatfile: /DATA/FORMAT/CAPPID.FMT

gw 330
9-25-92




SAMPLE NAME: 1868443
Resultfile: /CAP/RESULT/H13_268_483.RES
Plot Fields: 2000 5500

Sample Name: 1868443
Batch # 92268/A13 Injected on Mon Sep 28, 1992 1:55:45 pm

Instrument: HP5890#13HALL Employee #378
Cal- -lation: ExternalSTD Quantitation: HeightUnits
R .file: /CAP/RESULT/H13_268_483.RES
Mod file: /CAP/METHOD/H13_268NR.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

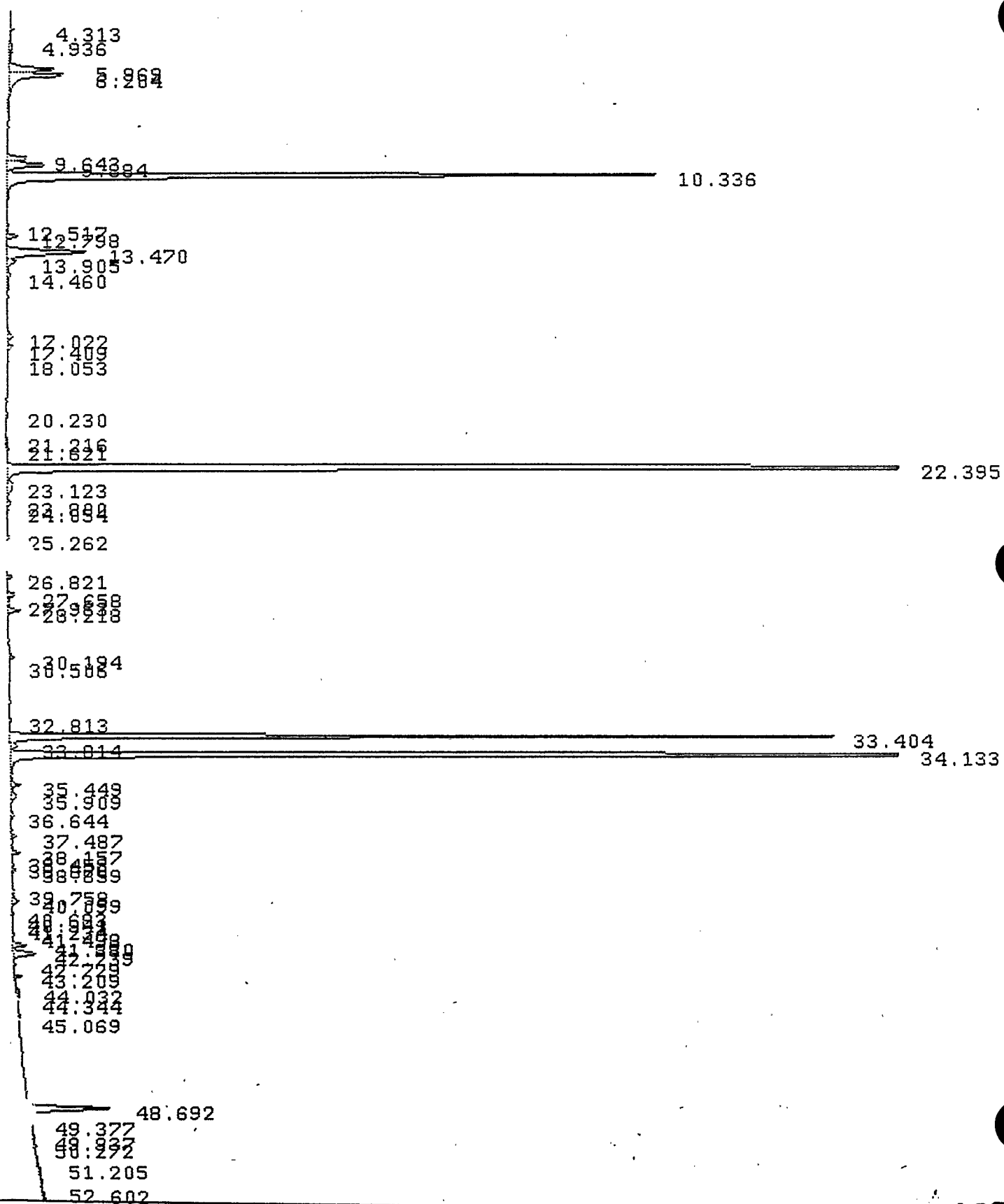
Integration Parameters: Run Time - 53.00
Threshold - 4.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 1.00

| Timed Events | Time | Event | Logic | Value | EventUpdate |
|---|---|---|---|---|---|
| 1 | 33.000 | SetPeakWidth | Event | .05 | False |

| Pk# | RT | IDTime | Height | Area | Code | ug/L | Peak Name |
|---|---|---|---|---|---|---|---|
| 2 | 12.85 | #12.90 | 4947 | 45743 | BB | ~~1.23~~ | METHYLENE CHLORIDE ND-1.70 ppb |
| 3 | 18.68 | #18.70 | 459 | 4493 | BB | .11 | CHLOROFORM |
| 4 | 20.18 | #20.19 | 85 | 1064 | BB | .04 | 1,1,1-TRICHLOROETHANE |
| 6 | 34.15 | #34.18 | 19157 | 131604 | BB | 104.99 | SURR-1CL2FBENZENE |

378 9-28-92

Reported on Mon Sep 28, 1992 2:54:14 pm
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT




SAMPLE NAME: 1868443
Resultfile: /CAP/RESULT/P13_268_483.RES

AR303784

Sample Name: 1868443
Batch # 92268/A13 Injected on Mon Sep 28, 1992 1:55:45 pm

Instrument: HP5890#13PID Employee #378
Cal ation: InternalSTD Quantitation: HeightUnits
.file: /CAP/RESULT/P13_268_483.RES
odfile: /CAP/METHOD/P13_268NI.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

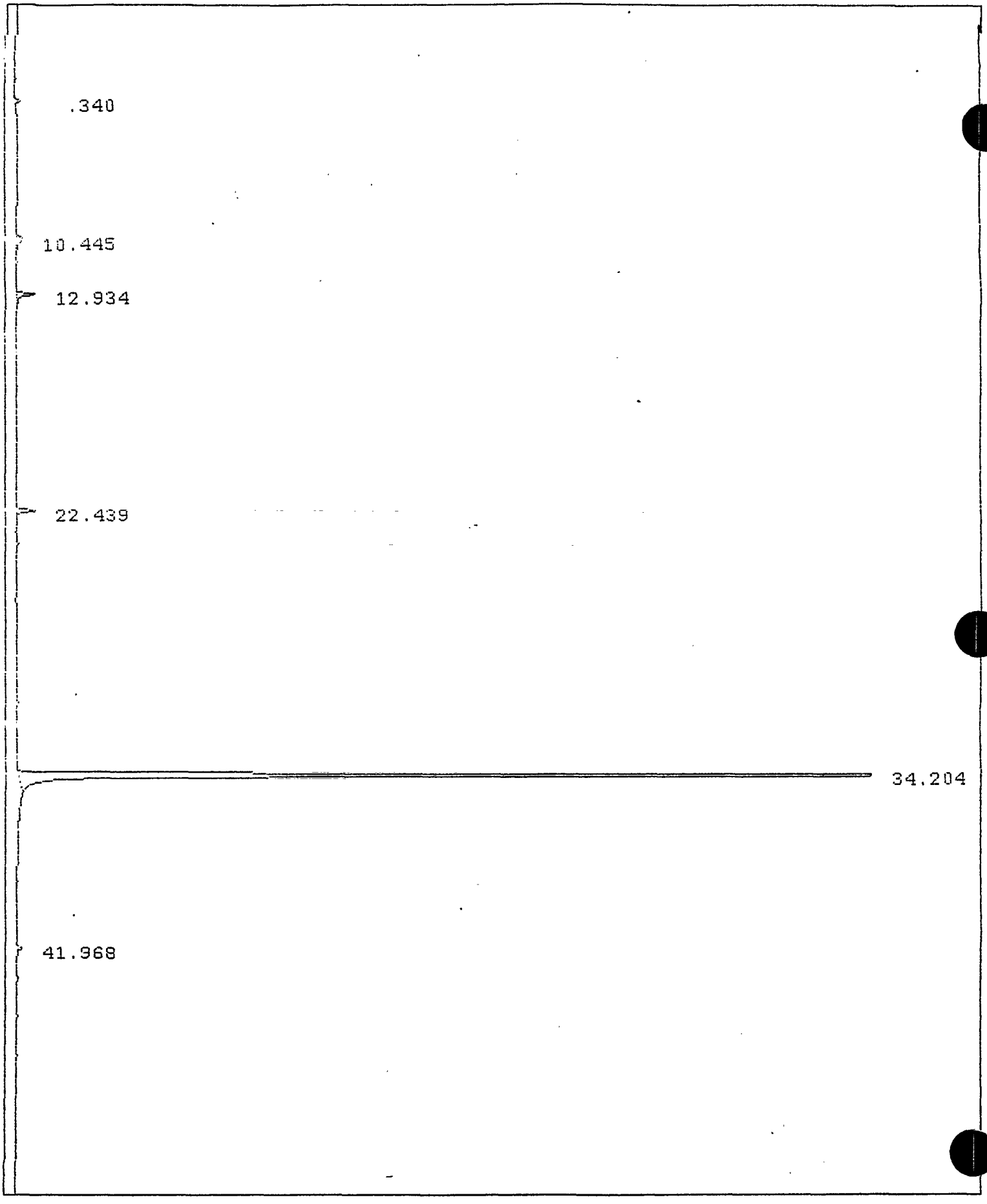
Integration Parameters: Run Time - 53.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .30000 Dilution Factor - 1.00

| 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 | 5.97 | 6.05 | 1441 | 16780 | VV | 6.39 | VINYL CHLORIDE |
| 15 | 18.05 | #18.09 | 22 | 229 | VB | .01 | CIS-1,2-DICHLOROETHENE |
| 18 | 21.62 | #21.65 | 61 | 885 | VV | .01 | BENZENE |
| 19 | 22.40 | #22.42 | 57802 | 465146 | VV | 98.63 | SURR-FBENZENE |
| 21 | 23.80 | #23.82 | 92 | 799 | VV | .03 | TRICHLOROETHENE |
| 27 | 28.22 | #28.24 | 357 | 2699 | VV | .06 | TOLUENE |
| 29 | 30.51 | #30.52 | 29 | 277 | VV | .01 | TETRACHLOROETHENE |
| 31 | 33.40 | #33.34 | 27578 | 163999 | BV | 4.59 | CHLOROBENZENE |
| 32 | 33.81 | #33.85 | 217 | 1967 | VV | .03 | M-XYLENE |
| 33 | 34.13 | #34.17 | 67584 | 430744 | VV | | ISTD-1CL2FBENZENE |
| [illegible] | 5.45 | #35.48 | 285 | 2871 | VV | .03 | STYRENE |
| [illegible] | 36.64 | #36.68 | 66 | 592 | BB | .01 | CUMENE |
| 38 | 38.16 | #38.12 | 254 | 1808 | PV | .04 | N-PROPYLBENZENE |
| 40 | 38.67 | #38.72 | 59 | 384 | VV | .01 | O-CHLOROTOLUENE |
| 41 | 38.86 | #38.89 | 138 | 845 | VV | .02 | P-CHLOROTOLUENE |
| 43 | 40.10 | #40.11 | 178 | 1718 | VV | .03 | 1,2,4-TRIMETHYLBENZENE |
| 44 | 40.68 | #40.76 | 42 | 438 | PV | .01 | SEC-BUTYLBENZENE |
| 46 | 41.23 | #41.26 | 38 | 247 | PV | .01 | P-ISOPROPYLTOLUENE |
| 47 | 41.50 | #41.53 | 55 | 419 | VV | .01 | M-DICHLOROBENZENE |
| 48 | 41.88 | #41.91 | 488 | 2864 | PV | .07 | P-DICHLOROBENZENE |
| 50 | 42.73 | #42.75 | 49 | 606 | VV | .01 | N-BUTYLBENZENE |
| 51 | 43.21 | #43.23 | 229 | 1495 | PV | .04 | O-DICHLOROBENZENE |
| 56 | 49.38 | 49.35 | 45 | 553 | VV | .01 | 1,2,4-TRICHLOROBENZENE |
| 57 | 49.94 | 49.93 | 36 | 494 | PV | .02 | HEXACHLOROBUTADIENE |
| 58 | 50.27 | 50.26 | 80 | 779 | VV | .02 | NAPHTHALENE |
| 59 | 51.21 | 51.20 | 97 | 1672 | VV | .03 | 1,2,3-TRICHLOROBENZENE |

Internal Standard Range: 55710 - 83565 (Midpoint - 69638)

Using check standard file. /CAP/RESULT/P13_268_480.RES
Reported on Mon Sep 28, 1992 2:57:48 pm
Report Formatfile: /DATA/FORMAT/CAPPID.FMT




SAMPLE NAME: 1868444
Resultfile: /CAP/RESULT/H13_268_468.RES
Plot Fields: 3000 - 5500 Instrument - HP5890#13HALL

AR303786

Sample Name: 1868444
Batch # 92268/A13 Injected on Fri Sep 25, 1992 4:50:57 pm

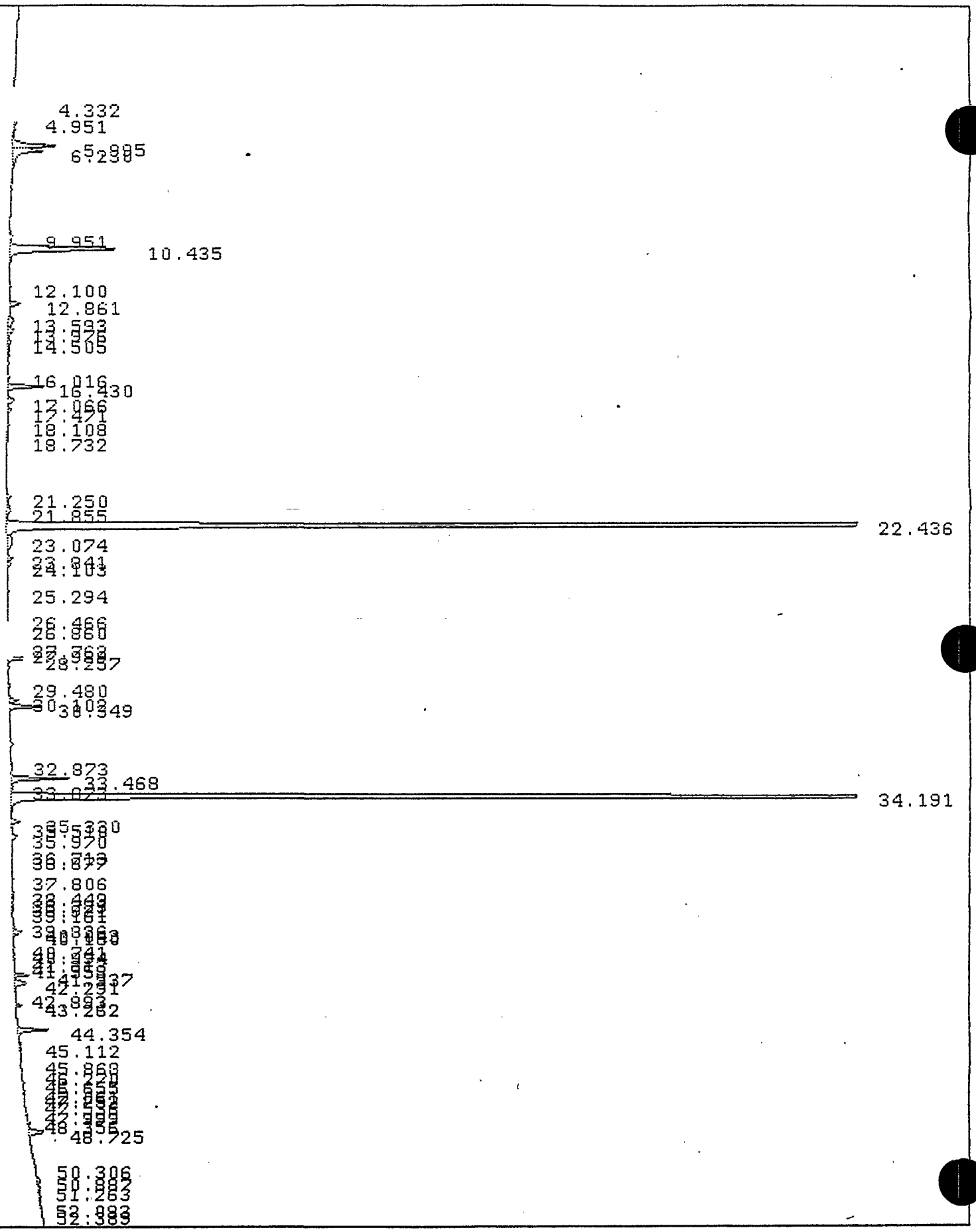
Instrument: HP5890#13HALL Employee #330
Calculation: ExternalSTD Quantitation: HeightUnits
Re 'tfile: /CAP/RESULT/H13_268_468.RES
.odfile: /CAP/METHOD/H13_268N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
105m x 0.53mm ID fused silica RTX-502.2 column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 04177

Integration Parameters: Run Time - 53.00
Threshold - 4.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 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 | 12.93 | #12.95 | 231 | 2171 | BB | .04 | METHYLENE CHLORIDE |
| 5 | 34.20 | #34.23 | 18822 | 129555 | BB | 103.16 | SURR-1CL2FBENZENE |
| 6 | 41.97 | #41.96 | 82 | 507 | BB | .05 | P-DICHLOROBENZENE |

Reported on Fri Sep 25, 1992 5:45:56 pm
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT




SAMPLE NAME: 1868444
Resultfile: /CAP/RESULT/P13_268_468.RES
Plot Fields: 3000 - 10000 Instrument - HP5890#13PID

AR303788

Sample Name: 1868444
Batch # 92268/A13 Injected on Fri Sep 25, 1992 4:50:57 pm

Instrument: HP5890#13PID Employee #330
Calculation: InternalSTD Quantitation: HeightUnits
Re- 'tfile: /CAP/RESULT/P13_268_468.RES
,dfile: /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

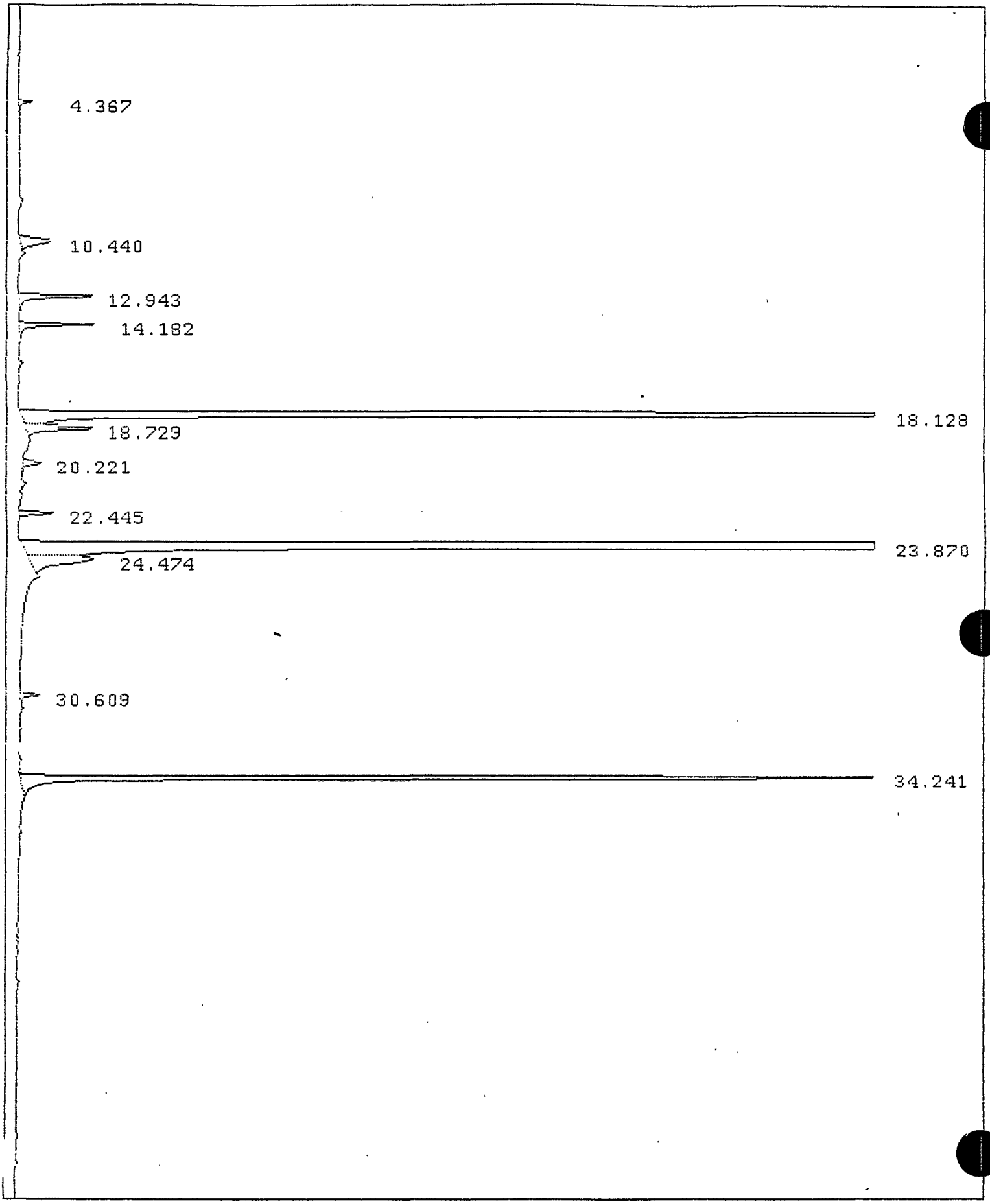
Integration Parameters: Run Time - 53.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .30000 Dilution Factor - 1.00

| 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 |
|---|---|---|---|---|---|---|---|
| 16 | 18.11 | #18.14 | 68 | 601 | VV | .02 | CIS-1,2-DICHLOROETHENE |
| 19 | 21.85 | #21.70 | 111 | 1829 | VV | .02 | BENZENE |
| 20 | 22.44 | #22.48 | 58502 | 471058 | VV | 99.30 | SURR-FBENZENE |
| 22 | 23.84 | #23.89 | 209 | 1691 | VV | .06 | TRICHLOROETHENE |
| 29 | 28.26 | #28.32 | 573 | 4507 | VV | .09 | TOLUENE |
| 34 | 33.47 | #33.41 | 2006 | 13306 | BV | .27 | CHLOROBENZENE |
| 35 | 33.87 | #33.91 | 86 | 675 | VV | .01 | M-XYLENE |
| 36 | 34.19 | #34.22 | 67942 | 435318 | VV | | ISTD-1CL2FBENZENE |
| 38 | 35.51 | #35.53 | 73 | 469 | VB | .01 | STYRENE |
| 40 | 36.71 | #36.72 | 39 | 324 | VV | .01 | CUMENE |
| 44 | 38.73 | #38.75 | 28 | 256 | VV | .00 | O-CHLOROTOLUENE |
| | 38.92 | #38.92 | 42 | 286 | VV | .01 | P-CHLOROTOLUENE |
| | 40.04 | #40.14 | 325 | 2215 | VV | .05 | 1,2,4-TRIMETHYLBENZENE |
| 51 | 40.99 | #40.79 | 29 | 179 | VV | .01 | SEC-BUTYLBENZENE |
| 52 | 41.31 | #41.29 | 15 | 113 | PV | .00 | P-ISOPROPYLTOLUENE |
| 53 | 41.56 | #41.56 | 25 | 273 | VV | .00 | M-DICHLOROBENZENE |
| 54 | 41.94 | #41.95 | 564 | 3295 | PV | .08 | P-DICHLOROBENZENE |
| 57 | 43.26 | #43.27 | 206 | 1323 | VB | .04 | O-DICHLOROBENZENE |
| 69 | 50.31 | 50.38 | 64 | 370 | PV | .02 | NAPHTHALENE |
| 71 | 51.26 | 51.32 | 76 | 1059 | VV | .02 | 1,2,3-TRICHLOROBENZENE |

Internal Standard Range: 51808 - 77712 (Midpoint - 64760)

Using initial calibration files.
Reported on Fri Sep 25, 1992 5:48:49 pm
Report Formatfile: /DATA/FORMAT/CAPPID.FMT




SAMPLE NAME: 1868445
Resultfile: /CAP/RESULT/H13_268_469.RES
Plot Fields: 3000 - 5500 Instrument - HP5890#13HALL

AR303790

Sample Name: 1868445
Batch # 92268/A13 Injected on Fri Sep 25, 1992 6:11:40 pm

Instrument: HP5890#13HALL Employee #330
Calculation: ExternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/H13_268_469.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 |
|---|---|---|---|---|---|---|---|
| 3 | 12.94 | #12.95 | 970 | 9100 | BB | ~~83~~ | METHYLENE CHLORIDE 1.67 ppb |
| 4 | 14.18 | #14.19 | 894 | 8275 | BB | 2.65 | TRANS-1,2-DICHLOROETHENE |
| 5 | 18.13 | #18.15 | 28879 | 246597 | BV | 64.28 | CIS-1,2-DICHLOROETHENE |
| 6 | 18.73 | #18.75 | 862 | 9721 | VV | 1.00 | CHLOROFORM |
| 7 | 20.22 | #20.23 | 220 | 2666 | BB | .58 | 1,1,1-TRICHLOROETHANE |
| 9 | 23.87 | #23.90 | 126564 | 1016491 | BV | 259.24 | TRICHLOROETHENE |
| 10 | 24.47 | #24.49 | 753 | 16279 | VV | ~~2.21~~ | 1,2-DICHLOROPROPANE NO - Peak is not well defined. |
| 11 | 30.61 | #30.60 | 249 | 2159 | BB | .46 | TETRACHLOROETHENE |
| 12 | 34.24 | #34.23 | 19651 | 136959 | BB | 538.51 | SURR-1CL2FBENZENE 108 |

gw330 9-25-92

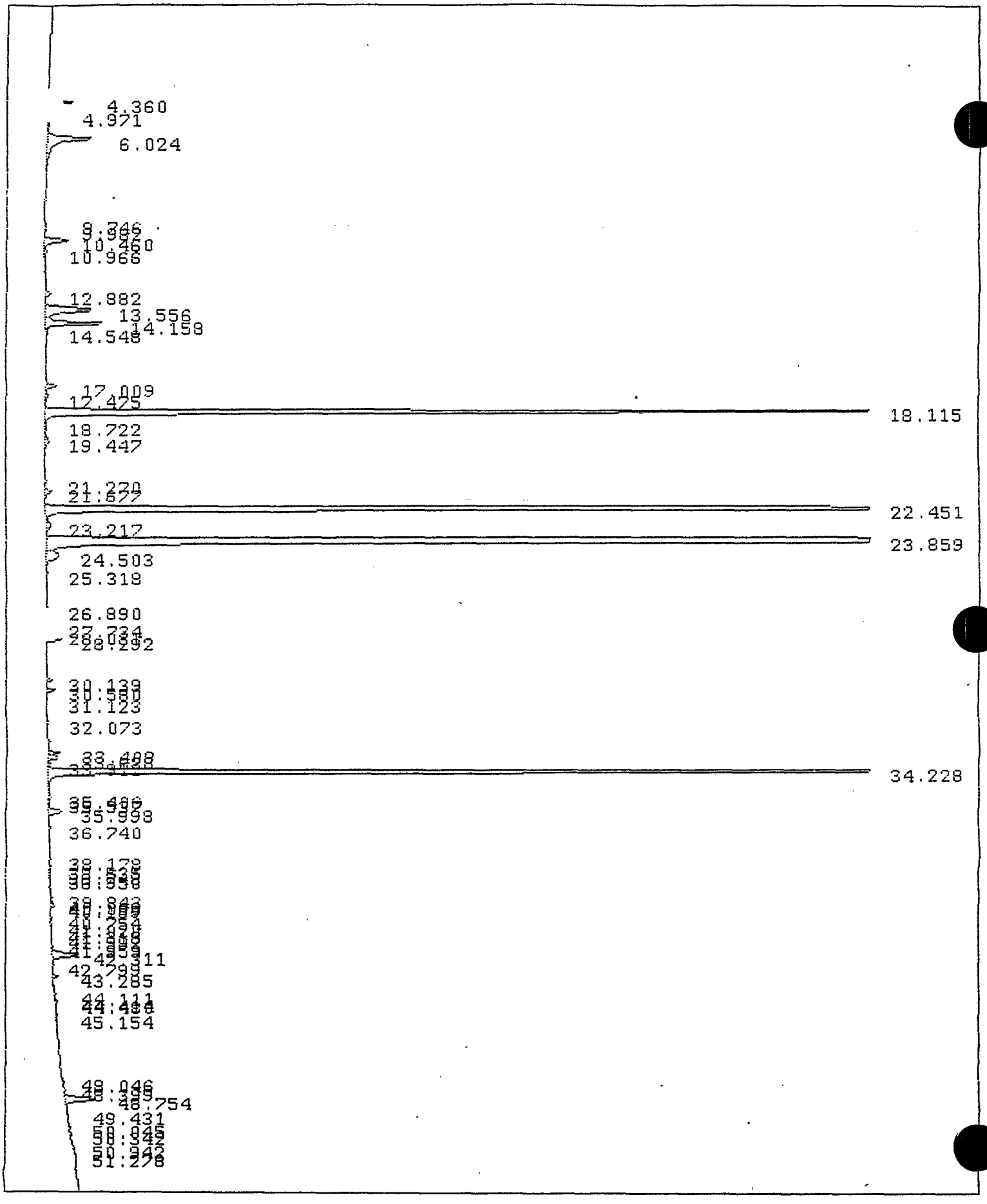
Reported on Fri Sep 25, 1992 7:06:29 pm
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT

TCE taken from DF10 (File #471).

gw330
9-25-92



AR303791




SAMPLE NAME: 1868445
Resultfile: /CAP/RESULT/P13_268_469.RES
Plot Fields: 3000 - 10000 Instrument - HP5890#13PID

AR303792

Sample Name: 1868445
Batch # 92268/A13 Injected on Fri Sep 25, 1992 6:11:40 pm

Instrument: HP5890#13PID Employee #330
Calculation: InternalSTD Quantitation: HeightUnits
Re 'tfile: /CAP/RESULT/P13_268_469.RES
.odfile: /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

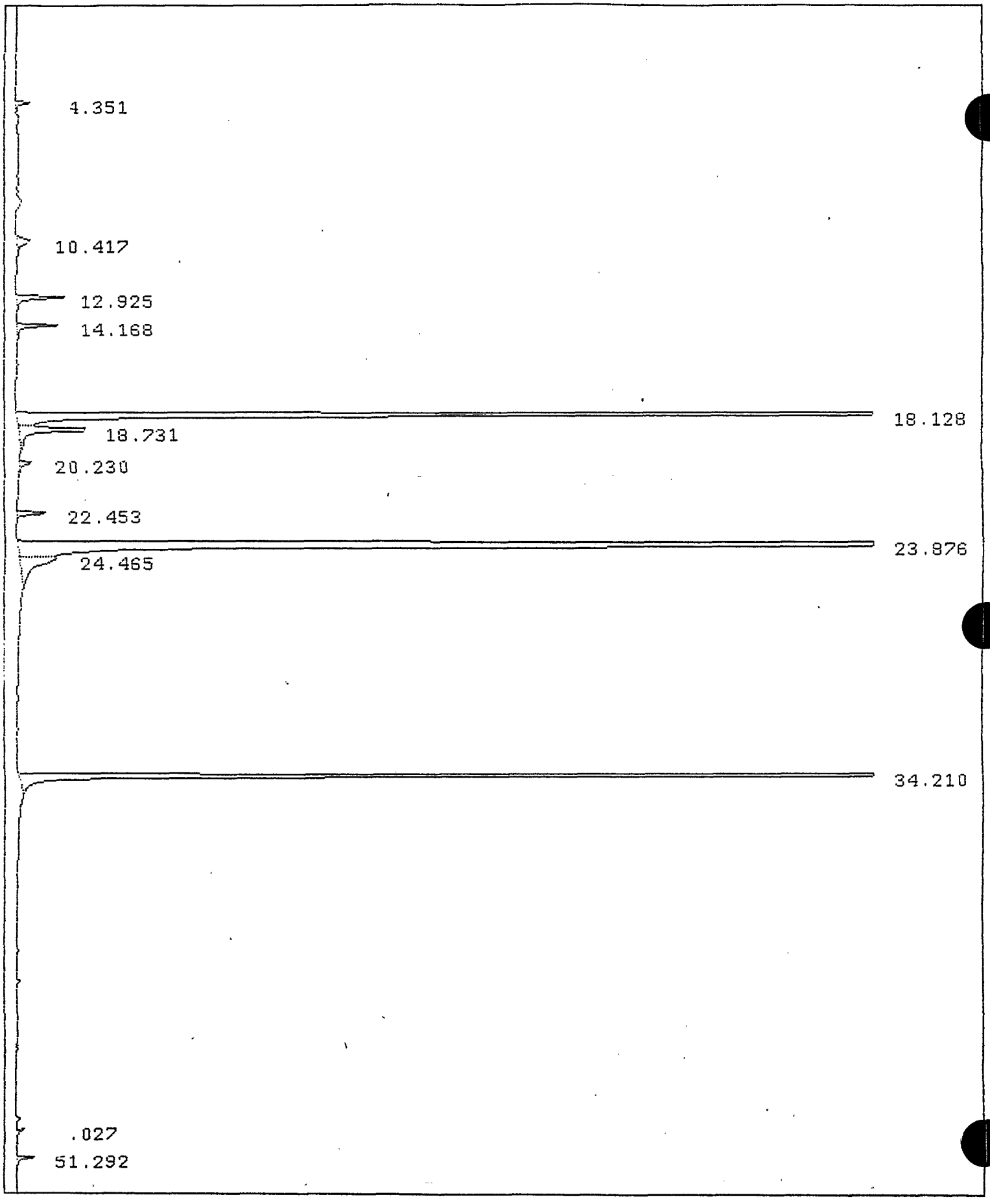
| Timed Events | Time | Event | Logic | Value | EventUpdate |
|---|---|---|---|---|---|
| 1 | 24.900 | ResetBLAtValle | Event | -1.00 | False |
| 2 | 31.900 | SetPeakWidth | Event | .05 | False |
| 3 | 33.300 | SetPeakWidth | Event | .10 | False |

| Pk# | RT | IDTime | Height | Area | Code | ug/L | Peak Name |
|---|---|---|---|---|---|---|---|
| 3 | 6.02 | 6.08 | 1521 | 25885 | VV | 32.20 | VINYL CHLORIDE |
| 7 | 10.97 | 11.00 | 82 | 1055 | VV | .29 | 1,1-DICHLOROETHENE |
| 10 | 14.16 | #14.18 | 2138 | 20146 | VV | 2.11 | TRANS-1,2-DICHLOROETHENE |
| 14 | 18.12 | #18.14 | 29092 | 233381 | PV | 61.94 | CIS-1,2-DICHLOROETHENE |
| 18 | 21.68 | #21.70 | 252 | 2398 | PV | .22 | BENZENE |
| 19 | 22.45 | #22.48 | 59382 | 476574 | PV | 497.03 | SURR-FBENZENE |
| 21 | 23.86 | #23.89 | 148205 | 1096151 | VV | 250.30 | TRICHLOROETHENE |
| 27 | 28.29 | #28.32 | 561 | 4313 | VB | .43 | TOLUENE |
| 29 | 30.58 | #30.59 | 304 | 2299 | VV | .53 | TETRACHLOROETHENE |
| 32 | 33.41 | #33.41 | 410 | 3276 | BV | .27 | CHLOROBENZENE |
| 33 | 33.63 | #33.63 | 371 | 2821 | VV | .31 | ETHYLBENZENE |
| | 33.91 | #33.91 | 102 | 778 | VV | .07 | M-XYLENE |
| | 34.23 | #34.22 | 68888 | 438521 | VV | | ISTD-1CL2FBENZENE |
| 37 | 35.54 | #35.53 | 45 | 307 | VV | .03 | STYRENE |
| 39 | 36.74 | #36.72 | 49 | 585 | VB | .05 | CUMENE |
| 40 | 38.18 | #38.15 | 20 | 146 | PB | .02 | N-PROPYLBENZENE |
| 41 | 38.53 | #38.75 | 35 | 323 | BV | .03 | O-CHLOROTOLUENE |
| 43 | 38.95 | #38.92 | 40 | 249 | VV | .03 | P-CHLOROTOLUENE |
| 46 | 40.19 | #40.14 | 144 | 1077 | VV | .11 | 1,2,4-TRIMETHYLBENZENE |
| 48 | 41.02 | #40.79 | 27 | 173 | PV | .03 | SEC-BUTYLBENZENE |
| 49 | 41.32 | #41.29 | 16 | 105 | PV | .02 | P-ISOPROPYLTOLUENE |
| 50 | 41.58 | #41.56 | 35 | 328 | VB | .03 | M-DICHLOROBENZENE |
| 51 | 41.96 | #41.95 | 58 | 394 | BV | .04 | P-DICHLOROBENZENE |
| 53 | 42.80 | #42.78 | 34 | 512 | VB | .03 | N-BUTYLBENZENE |
| 54 | 43.28 | #43.27 | 204 | 1269 | BB | .18 | O-DICHLOROBENZENE |
| 62 | 49.43 | 49.47 | 27 | 217 | VV | .04 | 1,2,4-TRICHLOROBENZENE |
| 63 | 50.04 | 50.05 | 32 | 328 | VV | .07 | HEXACHLOROBUTADIENE |
| 64 | 50.34 | 50.38 | 44 | 337 | PV | .05 | NAPHTHALENE |

Internal Standard Range: 51808 - 77712 (Midpoint - 64760)

Using initial calibration files.
Reported on Fri Sep 25, 1992 7:09:01 pm
Report Formatfile: /DATA/FORMAT/CAPPID.FMT

JW330 9-25-92




SAMPLE NAME: 1868445
Resultfile: /CAP/RESULT/H13_268_471.RES
Plot Fields: 3000 - 5500 Instrument - HP5890#13HALL

AR303794

Sample Name: 1868445
Batch # 92268/A13 Injected on Fri Sep 25, 1992 8:32:30 pm

Instrument: HP5890#13HALL Employee #330
Calculation: ExternalSTD Quantitation: HeightUnits
Re ltfile: /CAP/RESULT/H13_268_471.RES
ɔdfile: /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

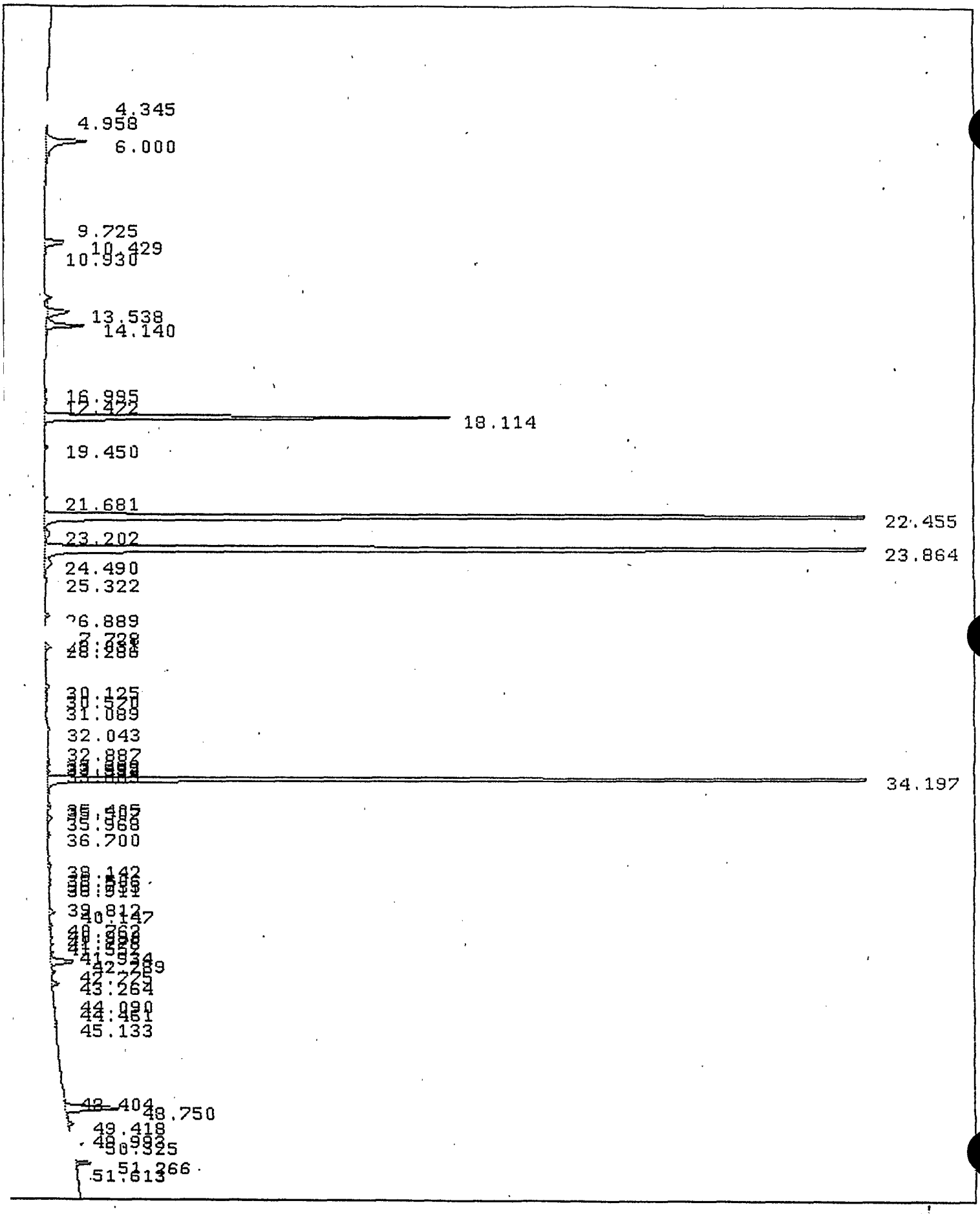
Integration Parameters: Run Time - 53.00
Threshold - 4.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 10.00

| 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 | 12.93 | #12.96 | 572 | 5376 | BB | .98 | METHYLENE CHLORIDE |
| 4 | 14.17 | #14.20 | 504 | 4745 | BB | 2.90 | TRANS-1,2-DICHLOROETHENE |
| 5 | 18.13 | #18.16 | 14584 | 124671 | BV | 62.11 | CIS-1,2-DICHLOROETHENE |
| 6 | 18.73 | #18.75 | 855 | 11211 | VB | 1.99 | CHLOROFORM |
| 7 | 20.23 | #20.22 | 139 | 1716 | BB | .73 | 1,1,1-TRICHLOROETHANE |
| 9 | 23.88 | #23.87 | 67795 | 537813 | BV | 270.33 | TRICHLOROETHENE |
| 10 | 24.46 | #24.46 | 427 | 11938 | VB | 2.50 | 1,2-DICHLOROPROPANE |
| 11 | 34.21 | #34.20 | 18964 | 130898 | BB | 1039.36 | SURR-1CL2FBENZENE 104 |
| 12 | 50.03 | 50.07 | 87 | 660 | BB | .42 | HEXACHLOROBUTADIENE |
| 13 | 51.29 | 51.34 | 207 | 1546 | BB | 1.74 | 1,2,3-TRICHLOROBENZENE |

Reported on Fri Sep 25, 1992 9:27:16 pm
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT

BW 330
9-25-92




SAMPLE NAME: 1868445
Resultfile: /CAP/RESULT/P13_268_471.RES
Plot Fields: 3000 - 10000 Instrument - HP5890#13PID



AR303796

Sample Name: 1868445
Batch # 92268/A13 Injected on Fri Sep 25, 1992 8:32:30 pm

Instrument: HP5890#13PID Employee #330
Calculation: InternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/P13_268_471.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

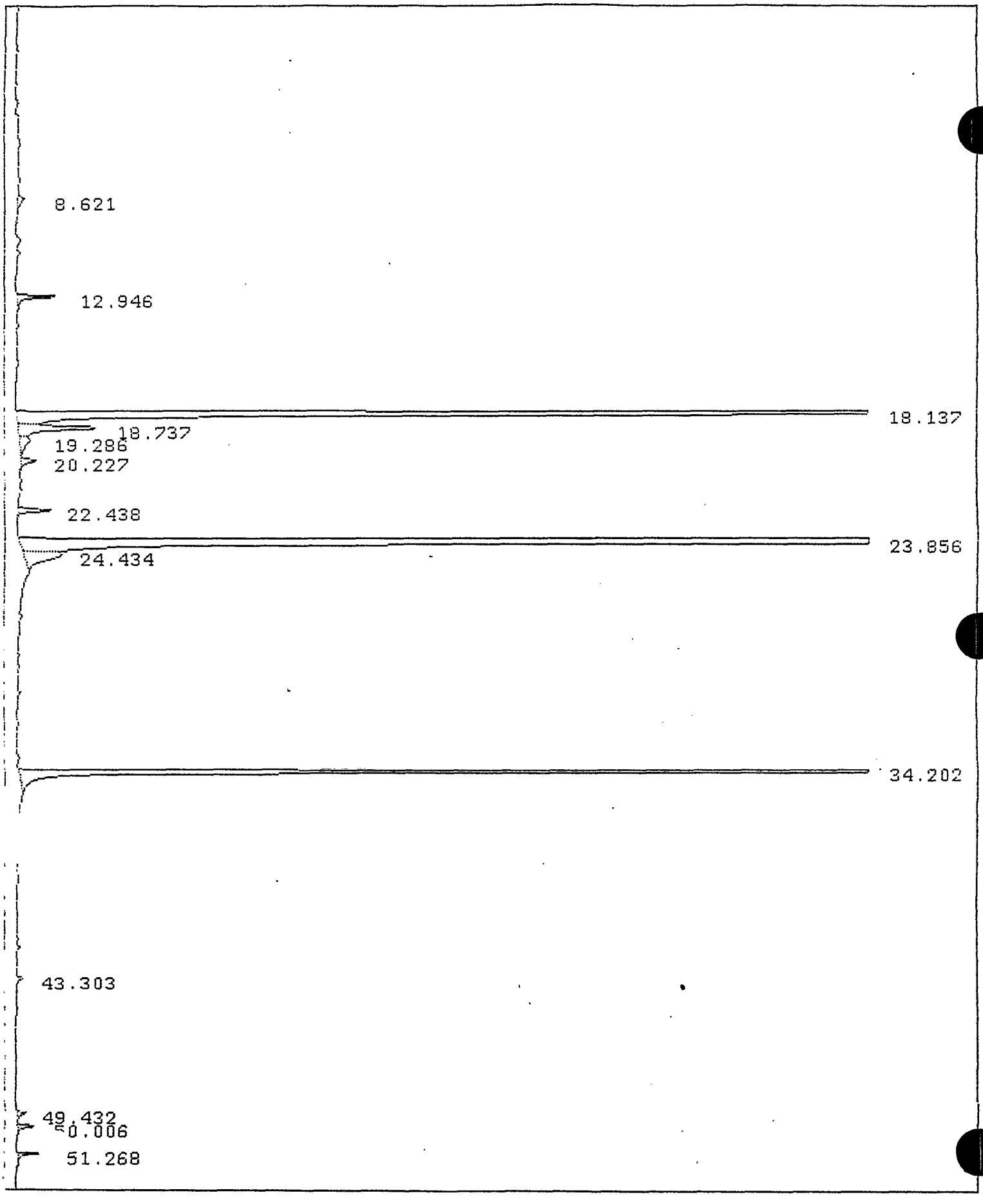
Integration Parameters: Run Time - 53.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .30000 Dilution Factor - 10.00

| 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 |
|---|---|---|---|---|---|---|---|
| 6 | 10.93 | 11.01 | 32 | 467 | VB | .25 | 1,1-DICHLOROETHENE |
| 8 | 14.14 | #14.19 | 1288 | 12693 | VV | 2.74 | TRANS-1,2-DICHLOROETHENE |
| 11 | 18.11 | #18.14 | 13975 | 113274 | PV | 63.67 | CIS-1,2-DICHLOROETHENE |
| 13 | 21.68 | #21.69 | 93 | 1108 | PV | .18 | BENZENE |
| 14 | 22.46 | #22.46 | 55094 | 445675 | VV | 992.38 | SURR-FBENZENE ~~100~~ 99 Cal 390 10-1-92 |
| 16 | 23.86 | #23.86 | 72747 | 534361 | VV | 263.59 | TRICHLOROETHENE gw330 9-25-92 |
| 22 | 28.29 | #28.27 | 239 | 1913 | VV | .39 | TOLUENE |
| 24 | 30.57 | #30.55 | 40 | 380 | VV | .15 | TETRACHLOROETHENE |
| 28 | 33.38 | #33.37 | 79 | 464 | BV | .11 | CHLOROBENZENE |
| 30 | 33.59 | #33.59 | 84 | 609 | VV | .15 | ETHYLBENZENE |
| 31 | 33.88 | #33.88 | 119 | 844 | VV | .18 | M-XYLENE |
| 3[illegible] | [illegible].20 | #34.19 | 64022 | 407452 | VV | | ISTD-1CL2FBENZENE |
| 1[illegible] | [illegible].51 | #35.51 | 90 | 607 | VV | .11 | STYRENE |
| 36 | 36.70 | #36.70 | 83 | 881 | VV | .19 | CUMENE |
| 37 | 38.14 | #38.15 | 75 | 514 | PV | .13 | N-PROPYLBENZENE |
| 39 | 38.73 | #38.75 | 73 | 470 | VV | .12 | O-CHLOROTOLUENE |
| 40 | 38.91 | #38.92 | 97 | 592 | VV | .14 | P-CHLOROTOLUENE |
| 42 | 40.15 | #40.14 | 186 | 1755 | VV | .32 | 1,2,4-TRIMETHYLBENZENE |
| 43 | 40.76 | #40.79 | 70 | 537 | BV | .18 | SEC-BUTYLBENZENE |
| 45 | 41.28 | #41.29 | 78 | 536 | PV | .18 | P-ISOPROPYLTOLUENE |
| 46 | 41.55 | #41.56 | 106 | 726 | VV | .17 | M-DICHLOROBENZENE |
| 47 | 41.93 | #41.95 | 128 | 738 | PV | .19 | P-DICHLOROBENZENE |
| 49 | 42.77 | #42.79 | 118 | 1110 | VV | .25 | N-BUTYLBENZENE |
| 50 | 43.26 | #43.27 | 269 | 1793 | VV | .51 | O-DICHLOROBENZENE |
| 56 | 49.42 | 49.47 | 220 | 1894 | VV | .64 | 1,2,4-TRICHLOROBENZENE |
| 57 | 49.99 | 50.05 | 155 | 1372 | VV | .69 | HEXACHLOROBUTADIENE |
| 58 | 50.33 | 50.38 | 424 | 2825 | PV | 1.08 | NAPHTHALENE |
| 59 | 51.27 | 51.32 | 585 | 4076 | PV | 1.85 | 1,2,3-TRICHLOROBENZENE |

Internal Standard Range: 51808 - 77712 (Midpoint - 64760)

Using initial calibration files.
Reported on Fri Sep 25, 1992 9:29:38 pm
Report Formatfile: /DATA/FORMAT/CAPPID.FMT




SAMPLE NAME: 1868446
Resultfile: /CAP/RESULT/H13_268_473.RES
Plot Fields: 3000 - 5500 Instrument - HP5890#13HALL

AR303798

Sample Name: 1868446
Batch # 92268/A13 Injected on Fri Sep 25, 1992 10:52:11 pm

Instrument: HP5890#13HALL Employee #330
Calculation: ExternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/H13_268_473.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

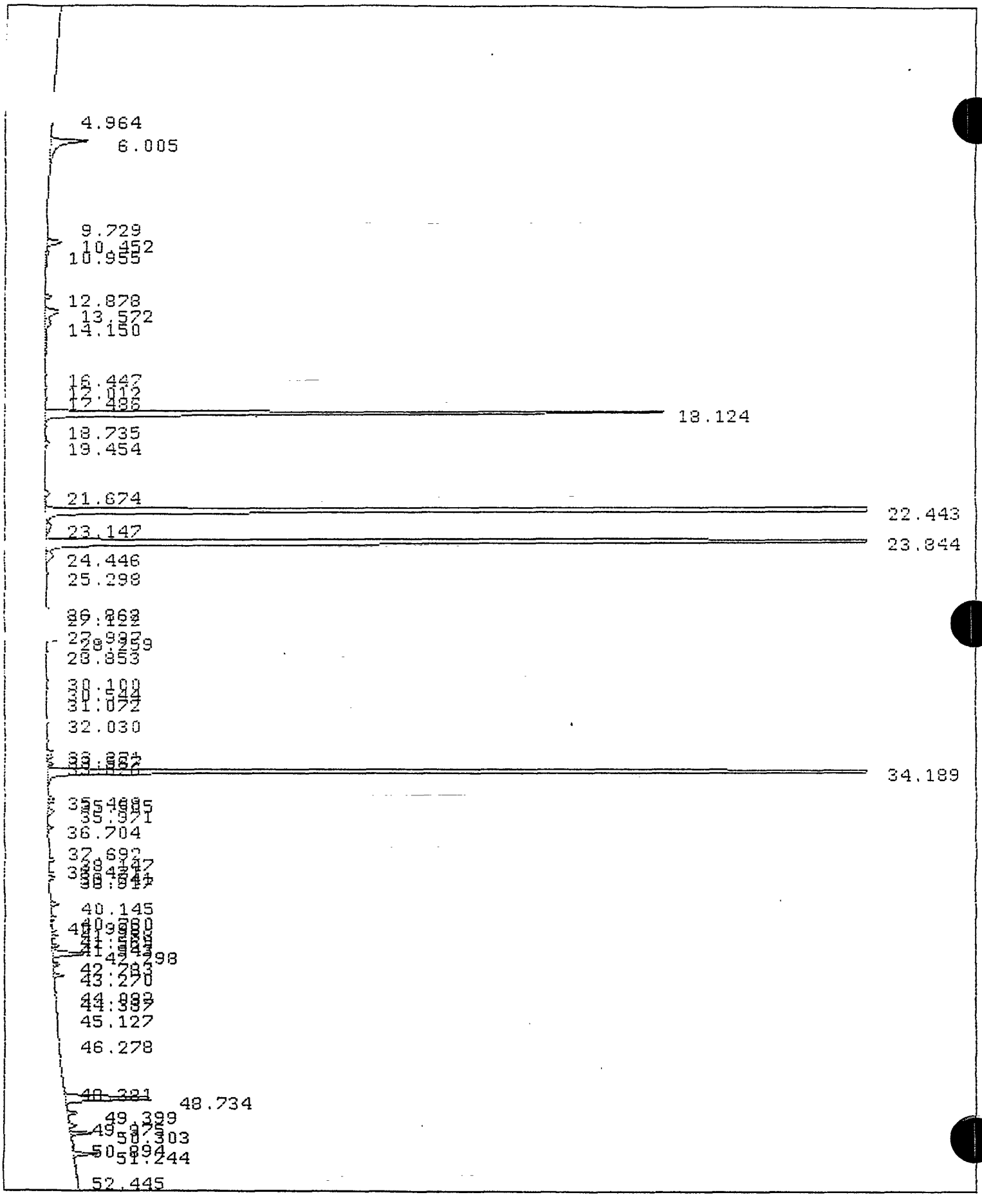
Integration Parameters: Run Time - 53.00
Threshold - 4.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 50.00

| 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 | 8.62 | 8.57 | 76 | 1609 | BB | 3.42 | TRICHLOROFLUOROMETHANE |
| 2 | 12.95 | #12.92 | 517 | 4945 | BB | 4.43 | METHYLENE CHLORIDE |
| 3 | 18.14 | #18.12 | 22890 | 196857 | BV | 496.63 | CIS-1,2-DICHLOROETHENE |
| 4 | 18.74 | #18.71 | 976 | 12496 | VV | 11.36 | CHLOROFORM |
| 5 | 19.29 | #19.26 | 124 | 3274 | VB | 4.34 | BROMOCHLOROMETHANE |
| 6 | 20.23 | #20.19 | 179 | 2267 | BB | 4.71 | 1,1,1-TRICHLOROETHANE |
| 8 | 23.86 | #23.86 | 69604 | 552675 | BV | 1389.86 | TRICHLOROETHENE |
| 9 | 24.43 | #24.46 | 453 | 9983 | VV | 13.29 | 1,2-DICHLOROPROPANE |
| 10 | 34.20 | #34.22 | 19686 | 138024 | BB | 5394.55 | SURR-1CL2FBENZENE 108 |
| 11 | 43.30 | #43.27 | 72 | 518 | BB | 2.24 | O-DICHLOROBENZENE |
| 12 | 49.43 | 49.48 | 113 | 865 | BB | 4.31 | 1,2,4-TRICHLOROBENZENE |
| 13 | 50.01 | 50.07 | 214 | 1772 | BB | 5.10 | HEXACHLOROBUTADIENE |
| 14 | 51.27 | 51.34 | 377 | 2746 | BB | 15.80 | 1,2,3-TRICHLOROBENZENE |

Reported on Fri Sep 25, 1992 11:46:53 pm
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT

9-28-92
[illegible]




SAMPLE NAME: 1868446
Resultfile: /CAP/RESULT/P13_268_473.RES
Plot Fields: 3000 - 10000 Instrument - HP5890#13PID

AR303800

Sample Name: 1868446
Batch # 92268/A13 Injected on Fri Sep 25, 1992 10:52:11 pm

Instrument: HP5890#13PID Employee #330
Calculation: InternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/P13_268_473.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 - 50.00

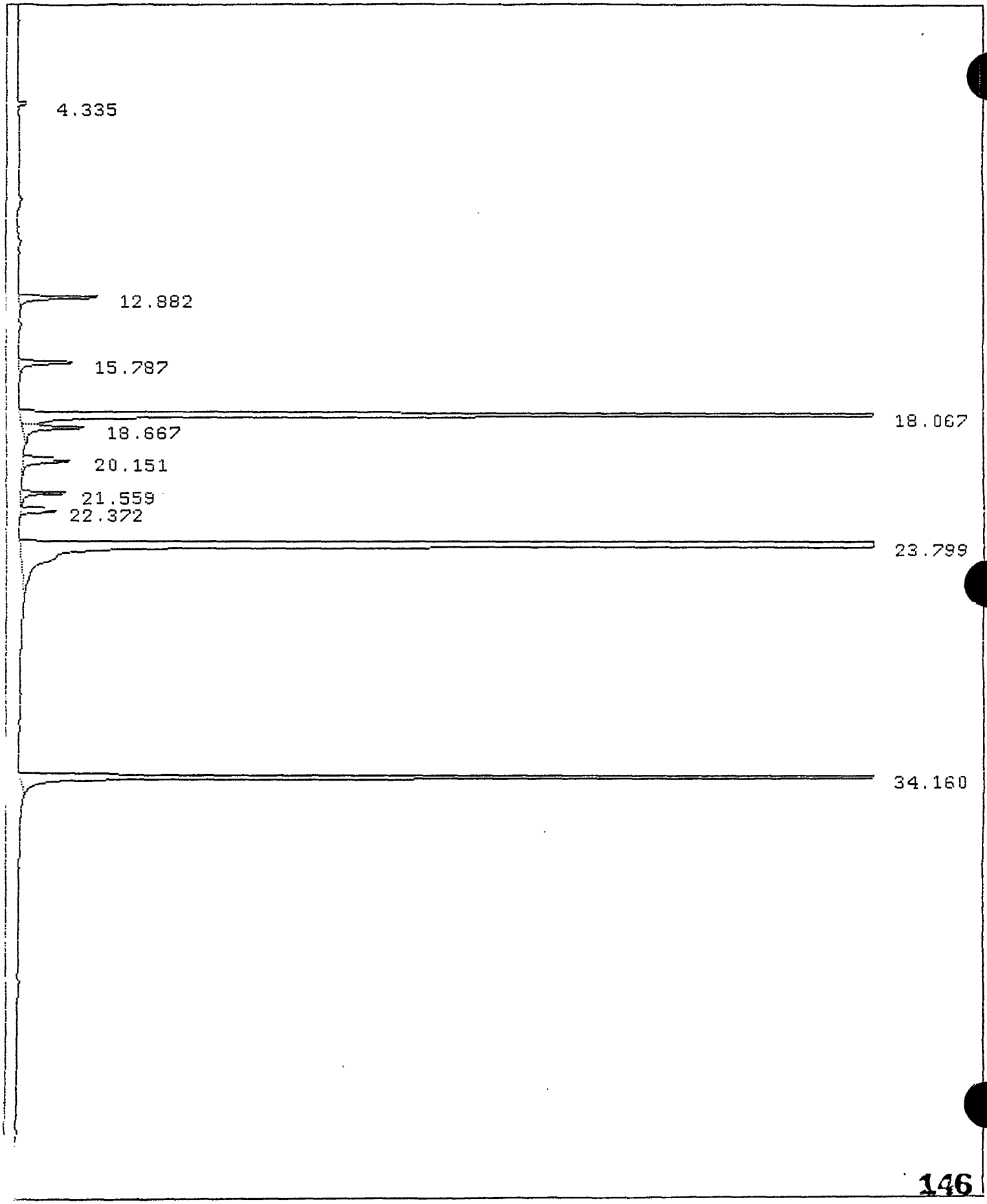
| Timed Events | Time | Event | Logic | Value | EventUpdate |
|---|---|---|---|---|---|
| 1 | 24.900 | ResetBLAtValle | Event | -1.00 | False |
| 2 | 31.900 | SetPeakWidth | Event | .05 | False |
| 3 | 33.300 | SetPeakWidth | Event | .10 | False |

| Pk# | RT | IDTime | Height | Area | Code | ug/L | Peak Name |
|---|---|---|---|---|---|---|---|
| 2 | 6.00 | 6.07 | 1209 | 20503 | VV | 307.93 | VINYL CHLORIDE |
| 5 | 10.95 | 10.98 | 78 | 1205 | VB | 2.84 | 1,1-DICHLOROETHENE |
| 8 | 14.15 | #14.15 | 195 | 6831 | VV | 1.97 | TRANS-1,2-DICHLOROETHENE |
| 12 | 18.12 | #18.12 | 22422 | 180633 | PV | 488.85 | CIS-1,2-DICHLOROETHENE |
| 15 | 21.67 | #21.67 | 158 | 1685 | VV | 1.42 | BENZENE |
| 16 | 22.44 | #22.44 | 57418 | 461232 | VV | 4927.64 | SURR-FBENZENE 89 |
| 18 | 23.84 | #23.84 | 74047 | 547484 | VV | 1278.05 | TRICHLOROETHENE |
| 22 | 27.12 | #27.12 | 47 | 335 | VV | 1.33 | CIS-1,3-DICHLOROPROPENE |
| 24 | 28.26 | #28.26 | 464 | 3690 | VV | 3.63 | TOLUENE |
| 25 | 28.85 | #28.85 | 48 | 406 | VV | .87 | TRANS-1,3-DICHLOROPROPENE |
| 27 | 30.54 | #30.54 | 85 | 722 | VV | 1.51 | TETRACHLOROETHENE |
| 30 | 33.37 | #33.37 | 210 | 1846 | BV | 1.44 | CHLOROBENZENE |
| [illegible] | 33.59 | #33.59 | 179 | 1311 | VV | 1.53 | ETHYLBENZENE |
| [illegible] | 33.88 | #33.88 | 202 | 1401 | VV | 1.49 | M-XYLENE |
| 33 | 34.19 | #34.19 | 67186 | 429869 | VV | | ISTD-1CL2FBENZENE |
| 35 | 35.51 | #35.51 | 238 | 1603 | VV | 1.38 | STYRENE |
| 37 | 36.70 | #36.70 | 152 | 1223 | BB | 1.71 | CUMENE |
| 39 | 38.15 | #38.15 | 184 | 1277 | PV | 1.56 | N-PROPYLBENZENE |
| 41 | 38.74 | #38.74 | 167 | 1055 | PV | 1.35 | O-CHLOROTOLUENE |
| 42 | 38.92 | #38.92 | 229 | 1393 | VB | 1.56 | P-CHLOROTOLUENE |
| 43 | 40.14 | #40.14 | 256 | 2101 | BV | 2.07 | 1,2,4-TRIMETHYLBENZENE |
| 44 | 40.78 | #40.78 | 158 | 1282 | PV | 1.90 | SEC-BUTYLBENZENE |
| 46 | 41.29 | #41.29 | 166 | 1149 | PV | 1.85 | P-ISOPROPYLTOLUENE |
| 47 | 41.56 | #41.56 | 220 | 1463 | VV | 1.71 | M-DICHLOROBENZENE |
| 48 | 41.94 | #41.94 | 271 | 1574 | PV | 1.92 | P-DICHLOROBENZENE |
| 50 | 42.78 | #42.78 | 220 | 1845 | VV | 2.26 | N-BUTYLBENZENE |
| 51 | 43.27 | #43.27 | 389 | 2512 | VV | 3.51 | O-DICHLOROBENZENE |
| 58 | 49.40 | 49.47 | 399 | 3182 | VV | 5.50 | 1,2,4-TRICHLOROBENZENE |
| 59 | 49.97 | 50.05 | 277 | 2309 | VV | 5.87 | HEXACHLOROBUTADIENE |
| 60 | 50.30 | 50.38 | 871 | 5816 | VV | 10.54 | NAPHTHALENE |
| 62 | 51.24 | 51.32 | 916 | 6709 | VV | 13.77 | 1,2,3-TRICHLOROBENZENE |

Internal Standard Range: 51808 - 77712 (Midpoint - 64760)

9-28-92 [illegible]

Using initial calibration files.
Reported on Fri Sep 25, 1992 11:49:16 pm
Report Formatfile: /DATA/FORMAT/CAPPID.FMT






SAMPLE NAME: 1868447

Result fi: /CGP/RESULT/H13 268 482.RES

Sample Name: 1868447
Batch # 92268/A13 Injected on Mon Sep 28, 1992 12:39:36 pm

Instrument: HP5890#13HALL Employee #378
Ca' lation: ExternalSTD Quantitation: HeightUnits
-tfile: /CAP/RESULT/H13_268_482.RES
odfile: /CAP/METHOD/H13_268NR.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

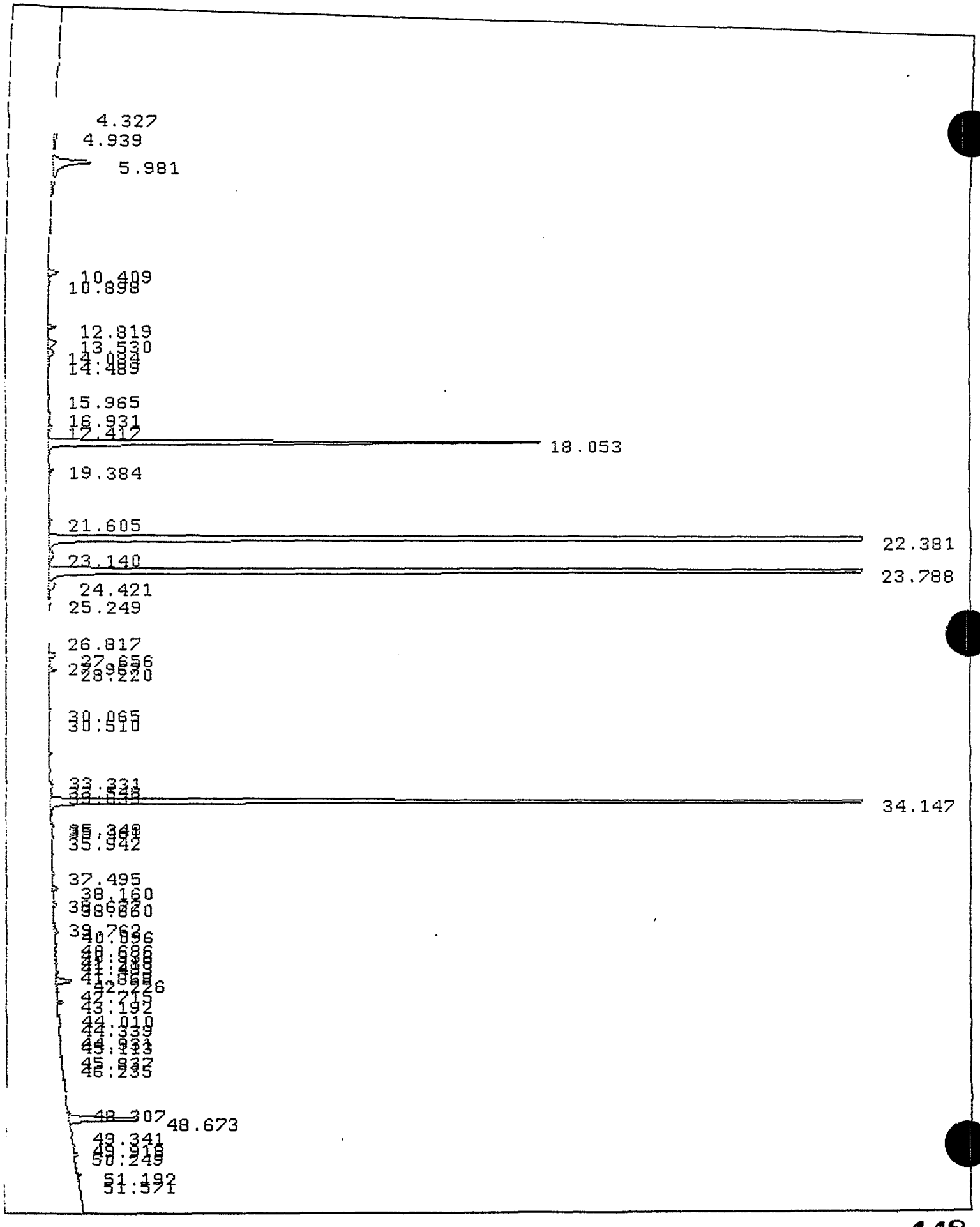
Integration Parameters: Run Time - 53.00
Threshold - 4.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 10.00

| 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 | 12.88 | #12.90 | 1045 | 9911 | BB | ~~1.79~~ | METHYLENE CHLORIDE NO - 3.60 ppb 378 9-28-92 |
| 3 | 15.79 | #15.82 | 669 | 7542 | BB | 4.22 | 1,1-DICHLOROETHANE |
| 4 | 18.07 | #18.12 | 18190 | 154765 | BV | 78.27 | CIS-1,2-DICHLOROETHENE |
| 5 | 18.67 | #18.70 | 780 | 10142 | VB | 1.82 | CHLOROFORM |
| 6 | 20.15 | #20.19 | 551 | 6792 | BB | 2.90 | 1,1,1-TRICHLOROETHANE |
| 7 | 21.56 | #21.60 | 626 | 5895 | BV | 2.75 | 1,2-DICHLOROETHANE |
| 9 | 23.80 | #23.85 | 71978 | 588427 | BB | 287.99 | TRICHLOROETHENE |
| 10 | 34.16 | #34.18 | 18366 | 127366 | BB | ~~1006.60~~ | SURR-1CL2FBENZENE 101 |

378 9-28-92

Reported on Mon Sep 28, 1992 1:42:00 pm
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT




SAMPLE NAME: 1868447

Resultfile: /CAP/RESULT/P13_268_482.RES

Pl- 'ds: 3000 - 10000 Instrument - HP5890A13PID

AR303804

Sample Name: 1868447
Batch # 92268/A13 Injected on Mon Sep 28, 1992 12:39:36 pm

Instrument: HP5890#13PID Employee #378
Cal lation: InternalSTD Quantitation: HeightUnits
.tfile: /CAP/RESULT/P13_268_482.RES
odfile: /CAP/METHOD/P13_268NI.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

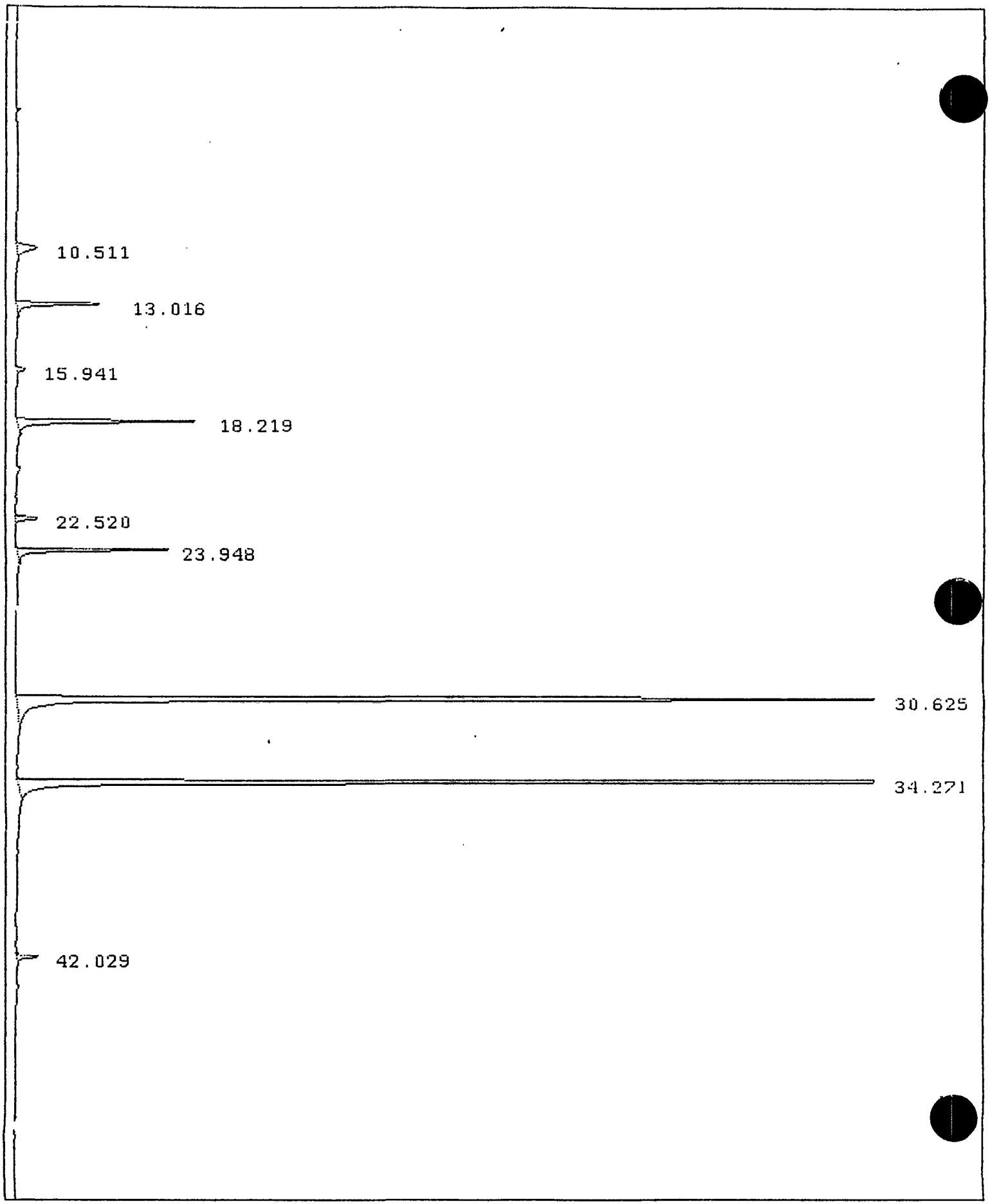
Integration Parameters: Run Time - 53.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .30000 Dilution Factor - 10.00

| 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 | 5.98 | 6.05 | 1304 | 24393 | VV | 62.98 | VINYL CHLORIDE |
| 5 | 10.90 | 10.96 | 56 | 728 | VV | .42 | 1,1-DICHLOROETHENE |
| 8 | 14.08 | #14.12 | 188 | 3271 | VV | .39 | TRANS-1,2-DICHLOROETHENE |
| 13 | 18.05 | #18.09 | 17222 | 138001 | VV | 77.28 | CIS-1,2-DICHLOROETHENE |
| 15 | 21.60 | #21.65 | 69 | 848 | PV | .13 | BENZENE |
| 16 | 22.38 | #22.42 | 56045 | 449263 | VV | ~~992.03~~ | SURR-FBENZENE 99 [illegible] 378 9-28-92 |
| 18 | 23.79 | #23.82 | 75899 | 558530 | VV | 270.29 | TRICHLOROETHENE |
| 24 | 28.22 | #28.24 | 222 | 1727 | VV | .36 | TOLUENE |
| 26 | 30.51 | #30.52 | 43 | 375 | VV | .16 | TETRACHLOROETHENE |
| 27 | 33.33 | #33.34 | 65 | 405 | BV | .09 | CHLOROBENZENE |
| [illegible] | 33.55 | #33.57 | 61 | 528 | VV | .11 | ETHYLBENZENE |
| [illegible] | 33.83 | #33.85 | 85 | 573 | PV | .13 | M-XYLENE |
| 30 | 34.15 | #34.17 | 65149 | 415228 | VB | | ISTD-1CL2FBENZENE |
| 32 | 35.46 | #35.48 | 75 | 492 | VB | .09 | STYRENE |
| 35 | 38.16 | #38.12 | 194 | 1460 | PV | .34 | N-PROPYLBENZENE |
| 36 | 38.68 | #38.72 | 49 | 313 | PV | .08 | O-CHLOROTOLUENE |
| 37 | 38.86 | #38.89 | 121 | 756 | VB | .17 | P-CHLOROTOLUENE |
| 39 | 40.10 | #40.11 | 122 | 1293 | VV | .20 | 1,2,4-TRIMETHYLBENZENE |
| 40 | 40.69 | #40.76 | 61 | 688 | VV | .15 | SEC-BUTYLBENZENE |
| 42 | 41.22 | #41.26 | 43 | 322 | VV | .10 | P-ISOPROPYLTOLUENE |
| 43 | 41.48 | #41.53 | 62 | 510 | VV | .10 | M-DICHLOROBENZENE |
| 44 | 41.87 | #41.91 | 161 | 931 | PV | .23 | P-DICHLOROBENZENE |
| 46 | 42.71 | #42.75 | 61 | 590 | VV | .13 | N-BUTYLBENZENE |
| 47 | 43.19 | #43.23 | 227 | 1468 | VV | .42 | O-DICHLOROBENZENE |
| 56 | 49.34 | 49.35 | 74 | 747 | VV | .21 | 1,2,4-TRICHLOROBENZENE |
| 57 | 49.92 | 49.93 | 60 | 516 | PV | .26 | HEXACHLOROBUTADIENE |
| 58 | 50.25 | 50.26 | 111 | 800 | PV | .28 | NAPHTHALENE |
| 59 | 51.19 | 51.20 | 141 | 1393 | PV | .44 | 1,2,3-TRICHLOROBENZENE |

Internal Standard Range: 55710 - 83565 (Midpoint - 69638)

Using check standard file. /CAP/RESULT/P13_268_480.RES
Reported on Mon Sep 28, 1992 1:48:40 pm
Report Formatfile: /DATA/FORMAT/CAPPID.FMT




SAMPLE NAME: 1868448
Resultfile: /CAP/RESULT/H13_268_448.RES

Sample Name: 1868448
Batch # 92268/A13 Injected on Thu Sep 24, 1992 11:13:40 am

Instrument: HP5890#13HALL Employee #702
Cal··lation: ExternalSTD Quantitation: HeightUnits
··tfile: /CAP/RESULT/H13_268_448.RES
··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

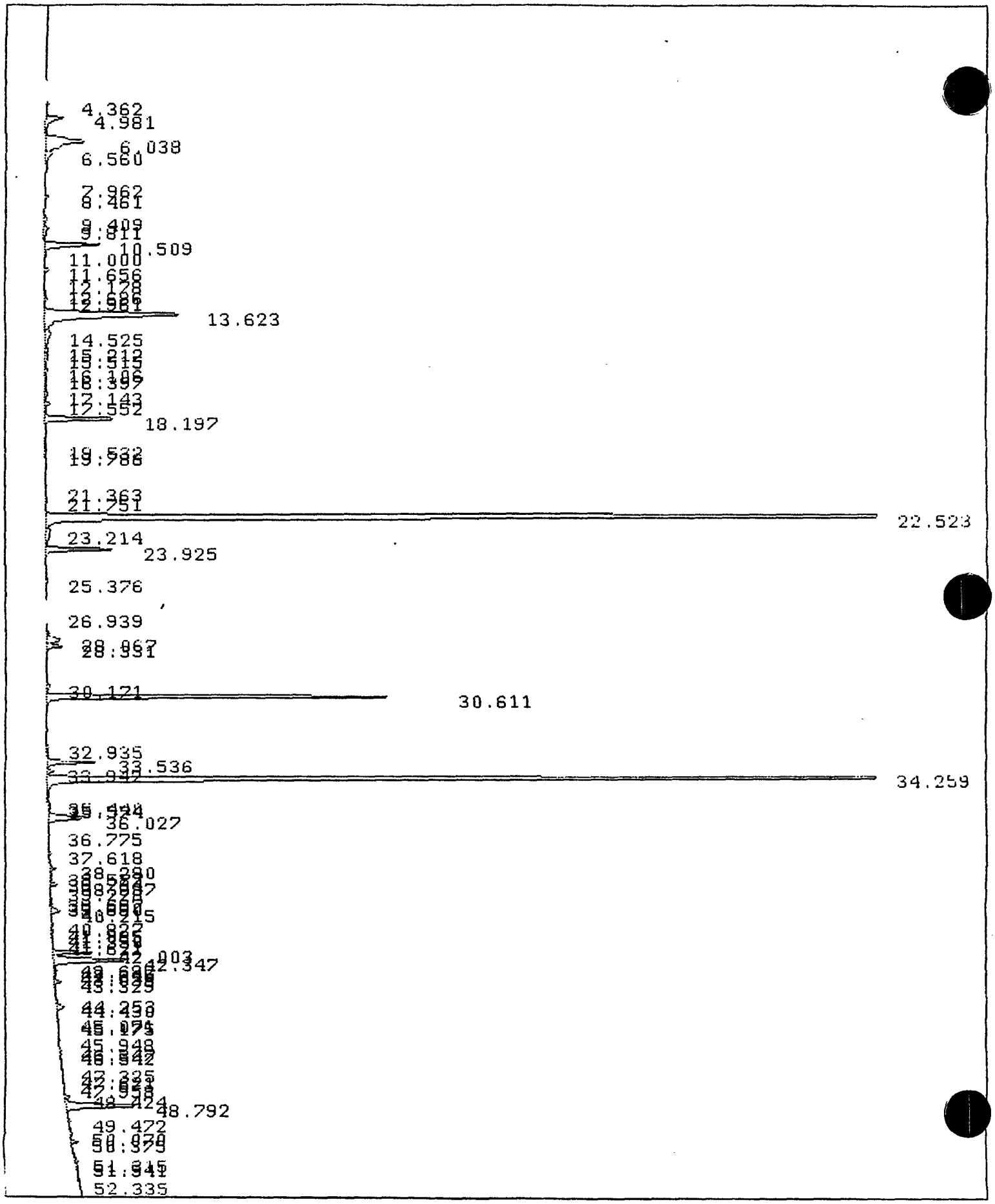
Integration Parameters: Run Time - 53.00
Threshold - 4.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 1.00

| Timed Events | Time | Event | Logic | Value | EventUpdate |
|---|---|---|---|---|---|
| 1 | 33.000 | SetPeakWidth | Event | .05 | False |

| Pk# | RT | IDTime | Height | Area | Code | ug/L | Peak Name |
|---|---|---|---|---|---|---|---|
| 2 | 13.02 | #12.97 | 1087 | 10194 | BB | ~~.19~~ | METHYLENE CHLORIDE 0.37 |
| 3 | 15.94 | #15.88 | 108 | 1189 | BB | .07 | 1,1-DICHLOROETHANE |
| 4 | 18.22 | #18.17 | 2132 | 18373 | BV | 1.09 | CIS-1,2-DICHLOROETHENE |
| 6 | 23.95 | #23.91 | 1862 | 15340 | BB | .86 | TRICHLOROETHENE |
| 7 | 30.63 | #30.61 | 16033 | 125464 | BB | 5.15 | TETRACHLOROETHENE |
| 8 | 34.27 | #34.24 | 18533 | 130105 | BB | 101.57 | SURR-1CL2FBENZENE |
| 9 | 42.03 | #41.98 | 311 | 2119 | BB | .17 | P-DICHLOROBENZENE |

Dan Hcr 9/24/92

Reported on Thu Sep 24, 1992 12:09:25 pm
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT




SAMPLE NAME: 1868448
Resultfile: /CAP/RESULT/P13_268_448.RES

Sample Name: 1868448
Batch # 92268/A13 Injected on Thu Sep 24, 1992 11:13:40 am

Instrument: HP5890#13PID Employee #702
Calculation: InternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/P13_268_448.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 | 6.04 | 6.08 | 1280 | 23768 | VV | 6.22 | VINYL CHLORIDE |
| 10 | 11.00 | 11.01 | 63 | 890 | VV | .05 | 1,1-DICHLOROETHENE |
| 23 | 18.20 | #18.15 | 2569 | 21451 | VV | 1.02 | CIS-1,2-DICHLOROETHENE |
| 27 | 21.75 | #21.71 | 85 | 1396 | VV | .02 | BENZENE |
| 28 | 22.52 | #22.48 | 58572 | 468865 | VV | 99.49 | SURR-FBENZENE |
| 30 | 23.93 | #23.89 | 2430 | 18652 | VV | .73 | TRICHLOROETHENE |
| 34 | 28.33 | #28.31 | 543 | 4589 | VV | .08 | TOLUENE |
| 36 | 30.61 | #30.59 | 12738 | 90492 | VV | 5.48 | TETRACHLOROETHENE |
| 38 | 33.54 | #33.63 | 1769 | 12335 | BV | .30 | ETHYLBENZENE |
| [illegible] | 33.94 | #33.92 | 269 | 1881 | VV | .04 | M-XYLENE |
| [illegible] | 34.26 | #34.23 | 67889 | 434678 | VV | | ISTD-1CL2FBENZENE |
| [illegible] | 35.57 | #35.54 | 89 | 561 | VV | .01 | STYRENE |
| 44 | 36.78 | #36.73 | 27 | 234 | BV | .01 | CUMENE |
| 46 | 38.29 | #38.17 | 220 | 1573 | PV | .04 | N-PROPYLBENZENE |
| 48 | 38.79 | #38.77 | 84 | 569 | VV | .01 | O-CHLOROTOLUENE |
| 49 | 38.99 | #38.94 | 263 | 1649 | VV | .04 | P-CHLOROTOLUENE |
| 53 | 40.22 | #40.15 | 278 | 3292 | VV | .04 | 1,2,4-TRIMETHYLBENZENE |
| 54 | 40.83 | #40.80 | 37 | 585 | VV | .01 | SEC-BUTYLBENZENE |
| 56 | 41.35 | #41.30 | 47 | 341 | VV | .01 | P-ISOPROPYLTOLUENE |
| 57 | 41.62 | #41.58 | 36 | 296 | VV | .01 | M-DICHLOROBENZENE |
| 58 | 42.00 | #41.96 | 1464 | 8513 | PV | .21 | P-DICHLOROBENZENE |
| 61 | 42.85 | #42.79 | 90 | 722 | VV | .02 | N-BUTYLBENZENE |
| 63 | 43.33 | #43.28 | 212 | 1381 | BV | .04 | O-DICHLOROBENZENE |
| 76 | 49.47 | 49.47 | 70 | 863 | VV | .02 | 1,2,4-TRICHLOROBENZENE |
| 77 | 50.07 | 50.05 | 49 | 826 | VV | .02 | HEXACHLOROBUTADIENE |
| 78 | 50.37 | 50.38 | 256 | 1811 | VV | .06 | NAPHTHALENE |
| 79 | 51.31 | 51.32 | 99 | 1711 | VV | .03 | 1,2,3-TRICHLOROBENZENE |

Internal Standard Range: 51808 - 77712 (Midpoint - 64760)

Using initial calibration files.
Reported on Thu Sep 24, 1992 12:12:06 pm
Report Formatfile: /DATA/FORMAT/CAPPID.FMT

STANDARDS DATA



AR303810

Lancaster Laboratories
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Quality Control Summary

Initial Calibration

Calibration Batch.....: 92254/A13

Sample Batch Number.....: 92268/A13

Calibration Date.....: 09/11/92

Instrument Identification..: 4177

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 | 0.001106 | 0.001171 | 0.000999 | 0.001086 | 0.001050 | 0.001109 | 0.001087 | 5.4 | 20 |
| Bromomethane | 0.002177 | 0.002389 | 0.001933 | 0.001845 | 0.001840 | 0.001782 | 0.001994 | 12.0 | 20 |
| Chloroethane | 0.000900 | 0.000988 | 0.000863 | 0.000911 | 0.000926 | 0.000928 | 0.000919 | 4.5 | 20 |
| Methylene chloride | 0.000171 | 0.000224 | 0.000281 | 0.000322 | 0.000359 | 0.000414 | 0.000295 | 30.2 | 20 * |
| trans-1,2-Dichloroethene | 0.000575 | 0.000648 | 0.000475 | 0.000450 | 0.000470 | 0.000523 | 0.000524 | 14.5 | 20 |
| 1,1-Dichloroethane | 0.000630 | 0.000706 | 0.000521 | 0.000512 | 0.000531 | 0.000585 | 0.000581 | 13.1 | 20 |
| cis-1,2-Dichloroethene | 0.000537 | 0.000590 | 0.000450 | 0.000420 | 0.000433 | 0.000476 | 0.000484 | 13.7 | 20 |
| Chloroform | 0.000232 | 0.000307 | 0.000316 | 0.000332 | 0.000355 | 0.000408 | 0.000325 | 17.9 | 20 |
| 1,2-Dichloropropane | 0.000587 | 0.000617 | 0.000503 | 0.000481 | 0.000487 | 0.000536 | 0.000535 | 10.5 | 20 |
| Bromodichloromethane | 0.000542 | 0.000559 | 0.000458 | 0.000436 | 0.000439 | 0.000476 | 0.000485 | 10.9 | 20 |
| cis-1,3-Dichloropropene | 0.000503 | 0.000526 | 0.000436 | 0.000423 | 0.000428 | 0.000473 | 0.000465 | 9.2 | 20 |
| trans-1,3-Dichloropropene | 0.000529 | 0.000533 | 0.000420 | 0.000386 | 0.000393 | 0.000413 | 0.000446 | 15.1 | 20 |
| 1,1,2-Trichloroethane | 0.000420 | 0.000440 | 0.000374 | 0.000363 | 0.000379 | 0.000407 | 0.000397 | 7.5 | 20 |
| Tetrachloroethene | 0.000368 | 0.000431 | 0.000327 | 0.000320 | 0.000336 | 0.000379 | 0.000360 | 11.6 | 20 |
| Dibromochloromethane | 0.000833 | 0.000835 | 0.000636 | 0.000581 | 0.000583 | 0.000586 | 0.000676 | 18.4 | 20 |
| Chlorobenzene | 0.001146 | 0.001156 | 0.000849 | 0.000773 | 0.000772 | 0.000802 | 0.000916 | 20.1 | 20 * |
| 1,1,1,2-Tetrachloroethane | 0.000327 | 0.000356 | 0.000314 | 0.000310 | 0.000325 | 0.000363 | 0.000333 | 6.6 | 20 |
| Bromoform | 0.002140 | 0.001815 | 0.001216 | 0.000982 | 0.000970 | 0.000885 | 0.001335 | 39.0 | 20 * |
| 1,1,2,2-Tetrachloroethane | 0.000652 | 0.000648 | 0.000548 | 0.000506 | 0.000544 | 0.000543 | 0.000574 | 10.7 | 20 |
| 1,2,3-Trichloropropane | 0.000918 | 0.000873 | 0.000714 | 0.000656 | 0.000690 | 0.00068 | 0.000755 | 14.7 | 20 |
| o-Chlorotoluene | 0.001442 | 0.001456 | 0.001007 | 0.000894 | 0.000893 | 0.000919 | 0.001102 | 24.7 | 20 * |
| p-Chlorotoluene | 0.001009 | 0.001075 | 0.000842 | 0.000784 | 0.000796 | 0.000855 | 0.000894 | 13.4 | 20 |
| m-Dichlorobenzene | 0.000743 | 0.000773 | 0.000587 | 0.000530 | 0.000533 | 0.000562 | 0.000621 | 17.4 | 20 |
| o-Dichlorobenzene | 0.000624 | 0.000672 | 0.000560 | 0.000520 | 0.000529 | 0.000562 | 0.000578 | 10.2 | 20 |
| Toluene | 0.000162 | 0.000206 | 0.000209 | 0.000212 | 0.000216 | | 0.000201 | 11.0 | 20 |
| Ethylbenzene | 0.000177 | 0.000214 | 0.000215 | 0.000217 | 0.000218 | | 0.000208 | 8.4 | 20 |
| m-Xylene | 0.000152 | 0.000186 | 0.000187 | 0.000189 | 0.000191 | | 0.000181 | 9.0 | 20 |
| Styrene | 0.000120 | 0.000145 | 0.000145 | 0.000146 | 0.000147 | | 0.000141 | 8.2 | 20 |

This initial calibration applies to samples 1868435-50

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

A linear curve was attained for 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.

m-Xylene and p-xylene coelute on the 105 meter Restek RTx 502.2 capillary column; only m-xylene is used in the calibration standard.

o-Xylene and styrene coelute on the 105 meter Restek RTx 502.2 capillary column; only styrene is used in the calibration standard.

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.





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Quality Control Summary

Initial Calibration

Calibration Batch.....: 92254/A13

Sample Batch Number.....: 92268/A13

Calibration Date.....: 09/11/92

Instrument Identification..: 4177

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 |
|---|---|---|---|---|---|---|---|---|---|
| Vinyl chloride | 0.001148 | 0.001265 | 0.001084 | 0.001145 | 0.001156 | 0.001176 | 0.001162 | 5.1 | 20 |
| 1,1-Dichloroethene | 0.000844 | 0.000944 | 0.000655 | 0.000619 | 0.000650 | 0.000720 | 0.000739 | 17.4 | 20 |
| 1,1,1-Trichloroethene | 0.000526 | 0.000595 | 0.000500 | 0.000497 | 0.000522 | 0.000581 | 0.000537 | 7.7 | 20 |
| Carbon tetrachloride | 0.000506 | 0.000567 | 0.000441 | 0.000423 | 0.000446 | 0.000506 | 0.000482 | 11.3 | 20 |
| 1,2-Dichloroethane | 0.000438 | 0.000460 | 0.000407 | 0.000393 | 0.000409 | 0.000448 | 0.000426 | 6.2 | 20 |
| Trichloroethene | 0.000453 | 0.000495 | 0.000374 | 0.000353 | 0.000364 | 0.000409 | 0.000408 | 13.7 | 20 |
| p-Dichlorobenzene | 0.000552 | 0.000584 | 0.000488 | 0.000462 | 0.000469 | 0.000507 | 0.000510 | 9.5 | 20 |
| Benzene | 0.000185 | 0.000226 | 0.000231 | 0.000231 | 0.000237 | | 0.000222 | 9.5 | 20 |

This initial calibration applies to samples 1868435-50

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

AR303812 155A



10/8

METHOD HEADER

Method : /CAP/METHOD/P13_268N.MTH
Created : Wed Sep 23, 1992 11:42:01 pm
Updated : Wed Sep 23, 1992 11:42:24 pm
Instrmnt : HP5890#13PID
Integrtr : GENIE
Calc Type : ISTD
Mltlevel : YES

COMMENT & PLOT FIELDS

Comment 1 : EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
Comment 2 : 105m x 0.53mm ID fused silica RTX-502.2 column - PID Detector
Comment 3 : HP 3350A LAS v. D.00.01 INSTRUMENT ID# 04177
Comment 4 : 92268/A13

| | | | |
|---|---|---|---|
| Start Time | : 0 | Stop Time | : 53.00 |
| Min Area | : 3000 | Max Area | : 10000 |
| Enlarge | : 1 | Rt/PkNames | : R |
| First/Last | : FIRST | PrinterCode | : FULLPAGE |

DATA INPUT

| | | | |
|---|---|---|---|
| Run Time | : 53.00 | Number Of Peaks | : 50 |
| Delay Start | : 0.00 | Threshold | : 2 |
| Minimum Area | : 100.0 | Peak Width | : .30000 |
| Shoulders | : NO | Extended Peaks | : NO |
| Solvent Slope | : 1.0E+05 | Split Solvent | : 2.0E+04 |
| # of Plates | : 0.00 | | |

DATA ANALYSIS

Area Calc : NO

USER PROGRAMS

Post Run :
Dlg Prog :
Parm File :
Overlap : YES

PEAK IDENTIFICATION

| | | | |
|---|---|---|---|
| Abs Ref Wdw | : .050 | % Ref Wdw | : .500 |
| Abs Non-Ref | : .050 | % Non-Ref | : .500 |
| Resp Factor Unkn | : 0.00000 | Suppress Unknown | : NO |
| Minimum Id Level | : 0.0 | Unknown Standard | : |
| Update Ret Times | : YES | % Update Times | : 100.00 |
| Use New Times | : YES | Dead Volume Time | : 0.00 |

TIMED EVENTS

| | Time | Event | Value | S/ECM | Relay # | Update |
|---|---|---|---|---|---|---|
| 1. | 24.90 | RN | | | | NO |
| 2. | 31.90 | PW | 0.05 | | | NO |
| 3. | 33.30 | PW | 0.10 | | | NO |

CALIBRATION FILES

| | Level # | Calibration File |
|---|---|---|
| 1. | 1 | /CAP/RESULT/P13_254_301.RES |
| 2. | 2 | /CAP/RESULT/P13_254_303.RES |
| 3. | 3 | /CAP/RESULT/P13_254_304.RES |
| 4. | 4 | /CAP/RESULT/P13_254_305.RES |
| 5. | 5 | /CAP/RESULT/P13_254_306.RES |

CALIBRATION DATE

| | Level # | Date | Count |
|---|---|---|---|
| 1. | 1 | Fri Sep 11, 1992 12:37:12 am | 1 |
| 2. | 2 | Fri Sep 11, 1992 3:26:45 am | 1 |
| 3. | 3 | Fri Sep 11, 1992 5:08:57 am | 1 |
| 4. | 4 | Fri Sep 11, 1992 7:02:41 am | 1 |
| 5. | 5 | Fri Sep 11, 1992 9:52:34 am | 1 |



AR303813

CALIB TABLE (PART 1)

| | Time | Amount | Peak Name | Typ | Std | Grp | Id | Wdw |
|---|---|---|---|---|---|---|---|---|
| 1. | 6.11 | 5.000000 | VINYL CHLORIDE | | | | | |
| 2. | 11.06 | 8000.000000 | 1,1-DICHLOROETHENE | | | | | |
| 3. | 14.25 | .483000 | TRANS-1,2-DICHLOROETHENE | R | | | | |
| 4. | 18.21 | .497000 | CIS-1,2-DICHLOROETHENE | R | | | | |
| 5. | 21.77 | .503000 | BENZENE | R | | | | |
| 6. | 22.55 | 100.000000 | SURR-FBENZENE | R | | | | |
| 7. | 23.95 | .498000 | TRICHLOROETHENE | R | | | | |
| 8. | 27.24 | .622000 | CIS-1,3-DICHLOROPROPENE | R | | | | |
| 9. | 28.37 | .486000 | TOLUENE | R | | | | |
| 10. | 28.96 | .415000 | TRANS-1,3-DICHLOROPROPENE | R | | | | |
| 11. | 30.65 | .504000 | TETRACHLOROETHENE | R | | | | |
| 12. | 33.47 | .509000 | CHLOROBENZENE | R | | | | |
| 13. | 33.69 | .504000 | ETHYLBENZENE | R | | | | |
| 14. | 33.98 | .487000 | M-XYLENE | R | | | | |
| 15. | 34.29 | 1.000000 | ISTD-1CL2FBENZENE | B | | | | |
| 16. | 35.31 | .513000 | O-XYLENE | | | | 5.E-02 | |
| 17. | 35.60 | .542000 | STYRENE | R | | | 8.E-02 | |
| 18. | 36.80 | .511000 | CUMENE | R | | | | |
| 19. | 38.24 | .532000 | N-PROPYLBENZENE | R | | | | |
| 20. | 38.83 | .496000 | O-CHLOROTOLUENE | R | | | | |
| 21. | 39.00 | .514000 | P-CHLOROTOLUENE | R | | | | |
| 22. | 40.22 | .504000 | 1,2,4-TRIMETHYLBENZENE | R | | | | |
| 23. | 40.86 | .491000 | SEC-BUTYLBENZENE | R | | | | |
| 24. | 41.37 | .514000 | P-ISOPROPYLTOLUENE | R | | | 1.E-01 | |
| 25. | 41.64 | .504000 | M-DICHLOROBENZENE | R | | | 1.E-01 | |
| 26. | 42.02 | .541000 | P-DICHLOROBENZENE | R | | | 1.E-01 | |
| 27. | 42.86 | .494000 | N-BUTYLBENZENE | R | | | 1.E-01 | |
| 28. | 43.35 | .557000 | O-DICHLOROBENZENE | R | | | | |
| 29. | 49.47 | .492000 | 1,2,4-TRICHLOROBENZENE | | | | 1.E-01 | |
| 30. | 50.05 | .515000 | HEXACHLOROBUTADIENE | | | | 1.E-01 | |
| 31. | 50.38 | .556000 | NAPHTHALENE | | | | 1.E-01 | |
| 32. | 51.32 | .521000 | 1,2,3-TRICHLOROBENZENE | | | | 1.E-01 | |

CALIB TABLE (PART 2)

| | Peak# | Time | Peak Name | Curve | Origin |
|---|---|---|---|---|---|
| 1. | 1 | 6.11 | VINYL CHLORIDE | POINTTOPOINT | EXTRAP |
| 2. | 2 | 11.06 | 1,1-DICHLOROETHENE | POINTTOPOINT | EXTRAP |
| 3. | 3 | 14.25 | TRANS-1,2-DICHLOROETHENE | POINTTOPOINT | EXTRAP |
| 4. | 4 | 18.21 | CIS-1,2-DICHLOROETHENE | POINTTOPOINT | EXTRAP |
| 5. | 5 | 21.77 | BENZENE | POINTTOPOINT | EXTRAP |
| 6. | 6 | 22.55 | SURR-FBENZENE | SINGLEPOINT | EXTRAP |
| 7. | 7 | 23.95 | TRICHLOROETHENE | POINTTOPOINT | EXTRAP |
| 8. | 8 | 27.24 | CIS-1,3-DICHLOROPROPENE | POINTTOPOINT | EXTRAP |
| 9. | 9 | 28.37 | TOLUENE | POINTTOPOINT | EXTRAP |
| 10. | 10 | 28.96 | TRANS-1,3-DICHLOROPROPENE | POINTTOPOINT | EXTRAP |
| 11. | 11 | 30.65 | TETRACHLOROETHENE | POINTTOPOINT | EXTRAP |
| 12. | 12 | 33.47 | CHLOROBENZENE | POINTTOPOINT | EXTRAP |
| 13. | 13 | 33.69 | ETHYLBENZENE | POINTTOPOINT | EXTRAP |
| 14. | 14 | 33.98 | M-XYLENE | POINTTOPOINT | EXTRAP |
| 15. | 15 | 34.29 | ISTD-1CL2FBENZENE | SINGLEPOINT | EXTRAP |
| 16. | 16 | 35.31 | O-XYLENE | POINTTOPOINT | EXTRAP |
| 17. | 17 | 35.60 | STYRENE | POINTTOPOINT | EXTRAP |
| 18. | 18 | 36.80 | CUMENE | POINTTOPOINT | EXTRAP |
| 19. | 19 | 38.24 | N-PROPYLBENZENE | POINTTOPOINT | EXTRAP |
| 20. | 20 | 38.83 | O-CHLOROTOLUENE | POINTTOPOINT | EXTRAP |
| 21. | 21 | 39.00 | P-CHLOROTOLUENE | POINTTOPOINT | EXTRAP |
| 22. | 22 | 40.22 | 1,2,4-TRIMETHYLBENZENE | POINTTOPOINT | EXTRAP |
| 23. | 23 | 40.86 | SEC-BUTYLBENZENE | POINTTOPOINT | EXTRAP |
| 24. | 24 | 41.37 | P-ISOPROPYLTOLUENE | POINTTOPOINT | EXTRAP |
| 25. | 25 | 41.64 | M-DICHLOROBENZENE | POINTTOPOINT | EXTRAP |
| 26. | 26 | 42.02 | P-DICHLOROBENZENE | POINTTOPOINT | EXTRAP |
| 27. | 27 | 42.86 | N-BUTYLBENZENE | POINTTOPOINT | EXTRAP |
| 28. | 28 | 43.35 | O-DICHLOROBENZENE | POINTTOPOINT | EXTRAP |
| 29. | 29 | 49.47 | 1,2,4-TRICHLOROBENZENE | POINTTOPOINT | EXTRAP |
| 30. | 30 | 50.05 | HEXACHLOROBUTADIENE | POINTTOPOINT | EXTRAP |
| 31. | 31 | 50.38 | NAPHTHALENE | POINTTOPOINT | EXTRAP |
| 32. | 32 | 51.32 | 1,2,3-TRICHLOROBENZENE | POINTTOPOINT | EXTRAP |

RESPONSE FACTORS

| | Peak# | Peak Name | Factor |
|---|---|---|---|
| 1. | 1 | VINYL CHLORIDE | .06299 |
| 2. | 2 | 1,1-DICHLOROETHENE | 10.21389 |
| 3. | 3 | TRANS-1,2-DICHLOROETHENE | 2.10345E-04 |
| 4. | 4 | CIS-1,2-DICHLOROETHENE | 3.67363E-04 |
| 5. | 5 | BENZENE | 1.85800E-04 |
| 6. | 6 | SURR-FBENZENE | 1.78261E-03 |
| 7. | 7 | TRICHLOROETHENE | 2.93243E-04 |
| 8. | 8 | CIS-1,3-DICHLOROPROPENE | 5.93134E-04 |
| 9. | 9 | TOLUENE | 1.62569E-04 |
| 10. | 10 | TRANS-1,3-DICHLOROPROPENE | 3.79752E-04 |
| 11. | 11 | TETRACHLOROETHENE | 3.70581E-04 |
| 12. | 12 | CHLOROBENZENE | 1.42032E-04 |
| 13. | 13 | ETHYLBENZENE | 1.77356E-04 |
| 14. | 14 | M-XYLENE | 1.52725E-04 |
| 15. | 15 | ISTD-1CL2FBENZENE | 1.54581E-05 |
| 16. | 16 | O-XYLENE | 2.77254E-03 |
| 17. | 17 | STYRENE | 1.20552E-04 |
| 18. | 18 | CUMENE | 2.32858E-04 |
| 19. | 19 | N-PROPYLBENZENE | 1.75431E-04 |
| 20. | 20 | O-CHLOROTOLUENE | 1.67270E-04 |
| 21. | 21 | P-CHLOROTOLUENE | 1.41958E-04 |
| 22. | 22 | 1,2,4-TRIMETHYLBENZENE | 1.68233E-04 |
| 23. | 23 | SEC-BUTYLBENZENE | 2.49928E-04 |
| 24. | 24 | P-ISOPROPYLTOLUENE | 2.31137E-04 |
| 25. | 25 | M-DICHLOROBENZENE | 1.60853E-04 |
| 26. | 26 | P-DICHLOROBENZENE | 1.47003E-04 |
| 27. | 27 | N-BUTYLBENZENE | 2.13293E-04 |
| 28. | 28 | O-DICHLOROBENZENE | 1.87364E-04 |
| 29. | 29 | 1,2,4-TRICHLOROBENZENE | 2.86806E-04 |
| 30. | 30 | HEXACHLOROBUTADIENE | 4.40017E-04 |
| 31. | 31 | NAPHTHALENE | 2.51499E-04 |
| 32. | 32 | 1,2,3-TRICHLOROBENZENE | 3.12365E-04 |

CURVE COEFFICIENTS

| | Pk# | Corr. | B0 | B1 | B2 | B3 |
|---|---|---|---|---|---|---|
| 1. | 1 | 1.000000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 2. | 2 | 1.000000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 3. | 3 | 1.000000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 4. | 4 | 1.000000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 5. | 5 | 1.000000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 6. | 6 | 1.000000 | 0.00000 | 560.97460 | 0.00000 | 0.00000 |
| 7. | 7 | 1.000000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 8. | 8 | 1.000000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 9. | 9 | 1.000000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 10. | 10 | 1.000000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 11. | 11 | 1.000000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 12. | 12 | 1.000000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 13. | 13 | 1.000000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 14. | 14 | 1.000000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 15. | 15 | 1.000000 | 0.00000 | 6.4691090E+04 | 0.00000 | 0.00000 |
| 16. | 16 | 1.000000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 17. | 17 | 1.000000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 18. | 18 | 1.000000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 19. | 19 | 1.000000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 20. | 20 | 1.000000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 21. | 21 | 1.000000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 22. | 22 | 1.000000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 23. | 23 | 1.000000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 24. | 24 | 1.000000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 25. | 25 | 1.000000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 26. | 26 | 1.000000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 27. | 27 | 1.000000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 28. | 28 | 1.000000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 29. | 29 | 1.000000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 30. | 30 | 1.000000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 31. | 31 | 1.000000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 32. | 32 | 1.000000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |

UPPER CALIB LEVELS

| | Peak# | Level # | Amount | Factor |
|---|---|---|---|---|
| 1. | 1 | 2 | 10.000000 | 2.09991E-03 |
| 2. | 1 | 3 | 20.000000 | 2.48675E-03 |
| 3. | 1 | 4 | 40.000000 | 2.55353E-03 |
| 4. | 1 | 5 | 60.000000 | 2.83939E-03 |
| 5. | 2 | 2 | 2.040000 | 7.53668E-04 |
| 6. | 2 | 3 | 5.100000 | 7.70179E-04 |
| 7. | 2 | 4 | 10.200000 | 7.85197E-04 |
| 8. | 2 | 5 | 51.000000 | 8.10801E-04 |
| 9. | 3 | 2 | 1.960000 | 2.52963E-04 |
| 10. | 3 | 3 | 4.900001 | 2.58020E-04 |
| 11. | 3 | 4 | 9.800001 | 2.61461E-04 |
| 12. | 3 | 5 | 49.000000 | 2.70686E-04 |
| 13. | 4 | 2 | 2.000000 | 4.44924E-04 |
| 14. | 4 | 3 | 5.000000 | 4.49371E-04 |
| 15. | 4 | 4 | 10.000000 | 4.52947E-04 |
| 16. | 4 | 5 | 50.000000 | 4.54961E-04 |
| 17. | 5 | 2 | 2.040000 | 2.26862E-04 |
| 18. | 5 | 3 | 5.100000 | 2.31414E-04 |
| 19. | 5 | 4 | 10.200000 | 2.31792E-04 |
| 20. | 5 | 5 | 51.000000 | 2.37495E-04 |
| 21. | 6 | 2 | 100.000000 | 1.77582E-03 |
| 22. | 6 | 3 | 100.000000 | 1.79134E-03 |
| 23. | 6 | 4 | 100.000000 | 1.79178E-03 |
| 24. | 6 | 5 | 100.000000 | 1.80140E-03 |
| 25. | 7 | 2 | 2.000000 | 3.50388E-04 |
| 26. | 7 | 3 | 5.000000 | 3.53537E-04 |
| 27. | 7 | 4 | 10.000000 | 3.54822E-04 |
| 28. | 7 | 5 | 50.000000 | 3.59689E-04 |
| 29. | 8 | 2 | 2.480000 | 7.22349E-04 |
| 30. | 8 | 3 | 6.200000 | 7.24207E-04 |
| 31. | 8 | 4 | 12.400000 | 7.20685E-04 |
| 32. | 8 | 5 | 62.000000 | 7.04282E-04 |
| 33. | 9 | 2 | 1.960000 | 2.06939E-04 |
| 34. | 9 | 3 | 4.900001 | 2.09741E-04 |
| 35. | 9 | 4 | 9.800001 | 2.12196E-04 |
| 36. | 9 | 5 | 49.000000 | 2.16669E-04 |
| 37. | 10 | 2 | 1.680000 | 4.61632E-04 |
| 38. | 10 | 3 | 4.200000 | 4.61668E-04 |
| 39. | 10 | 4 | 8.400000 | 4.65187E-04 |
| 40. | 10 | 5 | 42.000000 | 4.47067E-04 |
| 41. | 11 | 2 | 2.040000 | 4.45407E-04 |
| 42. | 11 | 3 | 5.100000 | 4.51294E-04 |
| 43. | 11 | 4 | 10.200000 | 4.55304E-04 |
| 44. | 11 | 5 | 51.000000 | 4.57081E-04 |
| 45. | 12 | 2 | 2.040000 | 1.74281E-04 |
| 46. | 12 | 3 | 5.100000 | 1.73763E-04 |
| 47. | 12 | 4 | 10.200000 | 1.74365E-04 |
| 48. | 12 | 5 | 51.000000 | 1.75390E-04 |
| 49. | 13 | 2 | 2.040000 | 2.14547E-04 |
| 50. | 13 | 3 | 5.100000 | 2.15031E-04 |
| 51. | 13 | 4 | 10.200000 | 2.17686E-04 |
| 52. | 13 | 5 | 51.000000 | 2.18737E-04 |
| 53. | 14 | 2 | 1.960000 | 1.86846E-04 |
| 54. | 14 | 3 | 4.900001 | 1.87006E-04 |
| 55. | 14 | 4 | 9.800001 | 1.89543E-04 |
| 56. | 14 | 5 | 49.000000 | 1.91027E-04 |
| 57. | 15 | 2 | 1.000000 | 1.54581E-05 |
| 58. | 15 | 3 | 1.000000 | 1.54581E-05 |
| 59. | 15 | 4 | 1.000000 | 1.54581E-05 |
| 60. | 15 | 5 | 1.000000 | 1.54581E-05 |
| 61. | 16 | 2 | 2.080000 | 1.22989E-04 |
| 62. | 16 | 3 | 5.200000 | 2.29386E-04 |
| 63. | 16 | 4 | 10.400000 | 5.13883E-04 |
| 64. | 16 | 5 | 52.000000 | 2.43582E-04 |
| 65. | 17 | 2 | 2.160000 | 1.45788E-04 |
| 66. | 17 | 3 | 5.400000 | 1.45987E-04 |
| 67. | 17 | 4 | 10.800000 | 1.46619E-04 |
| 68. | 17 | 5 | 54.000000 | 1.47555E-04 |
| 69. | 18 | 2 | 2.040000 | 2.78546E-04 |
| 70. | 18 | 3 | 5.100000 | 2.77672E-04 |
| 71. | 18 | 4 | 10.200000 | 2.79212E-04 |
| 72. | 18 | 5 | 51.000000 | 2.79111E-04 |
| 73. | 19 | 2 | 2.120000 | 2.08676E-04 |
| 74. | 19 | 3 | 5.300000 | 2.09020E-04 |
| 75. | 19 | 4 | 10.600000 | 2.12050E-04 |
| 76. | 19 | 5 | 53.000000 | 2.12292E-04 |
| 77. | 20 | 2 | 2.000000 | 2.02832E-04 |
| 78. | 20 | 3 | 5.000000 | 2.03949E-04 |
| 79. | 20 | 4 | 10.000000 | 2.06406E-04 |
| 80. | 20 | 5 | 50.000000 | 2.05267E-04 |
| 81. | 21 | 2 | 2.080000 | 1.73609E-04 |
| 82. | 21 | 3 | 5.200000 | 1.74375E-04 |
| 83. | 21 | 4 | 10.400000 | 1.76544E-04 |
| 84. | 21 | 5 | 52.000000 | 1.77324E-04 |
| 85. | 22 | 2 | 2.040000 | 2.08981E-04 |
| 86. | 22 | 3 | 5.100000 | 2.09845E-04 |
| 87. | 22 | 4 | 10.200000 | 2.12097E-04 |
| 88. | 22 | 5 | 51.000000 | 2.10959E-04 |

| | | | | |
|---|---|---|---|---|
| 91. | 23 | 4 | 9.800001 | 3.00910E-04 |
| 92. | 23 | 5 | 49.000000 | 2.97432E-04 |
| 93. | 24 | 2 | 2.080000 | 2.75881E-04 |
| 94. | 24 | 3 | 5.200000 | 2.78503E-04 |
| 95. | 24 | 4 | 10.400000 | 2.82300E-04 |
| [illegible] | 24 | 5 | 52.000000 | 2.78227E-04 |
| [illegible] | 25 | 2 | 2.040000 | 1.97218E-04 |
| 98. | 25 | 3 | 5.100000 | 1.96340E-04 |
| 99. | 25 | 4 | 10.200000 | 1.98056E-04 |
| 100. | 25 | 5 | 51.000000 | 1.93546E-04 |
| 101. | 26 | 2 | 2.200000 | 1.81321E-04 |
| 102. | 26 | 3 | 5.500000 | 1.81307E-04 |
| 103. | 26 | 4 | 11.000000 | 1.82992E-04 |
| 104. | 26 | 5 | 54.999990 | 1.79795E-04 |
| 105. | 27 | 2 | 2.000000 | 2.56379E-04 |
| 106. | 27 | 3 | 5.000000 | 2.54361E-04 |
| 107. | 27 | 4 | 10.000000 | 2.59678E-04 |
| 108. | 27 | 5 | 50.000000 | 2.54969E-04 |
| 109. | 28 | 2 | 2.240000 | 2.39674E-04 |
| 110. | 28 | 3 | 5.599999 | 2.40747E-04 |
| 111. | 28 | 4 | 11.200000 | 2.44565E-04 |
| 112. | 28 | 5 | 55.999990 | 2.36989E-04 |
| 113. | 29 | 2 | 1.960000 | 3.44828E-04 |
| 114. | 29 | 3 | 4.900001 | 3.38107E-04 |
| 115. | 29 | 4 | 9.800001 | 3.45989E-04 |
| 116. | 29 | 5 | 49.000000 | 3.20256E-04 |
| 117. | 30 | 2 | 2.080000 | 5.26922E-04 |
| 118. | 30 | 3 | 5.200000 | 5.24836E-04 |
| 119. | 30 | 4 | 10.400000 | 5.35433E-04 |
| 120. | 30 | 5 | 52.000000 | 5.37785E-04 |
| [illegible] | 31 | 2 | 2.240000 | 3.08727E-04 |
| [illegible] | 31 | 3 | 5.599999 | 3.02070E-04 |
| 123. | 31 | 4 | 11.200000 | 3.21583E-04 |
| 124. | 31 | 5 | 55.999990 | 2.83188E-04 |
| 125. | 32 | 2 | 2.080000 | 4.02848E-04 |
| 126. | 32 | 3 | 5.200000 | 3.98059E-04 |
| 127. | 32 | 4 | 10.400000 | 4.22115E-04 |
| 128. | 32 | 5 | 52.000000 | 3.82500E-04 |

REPORT SPECIFICATION

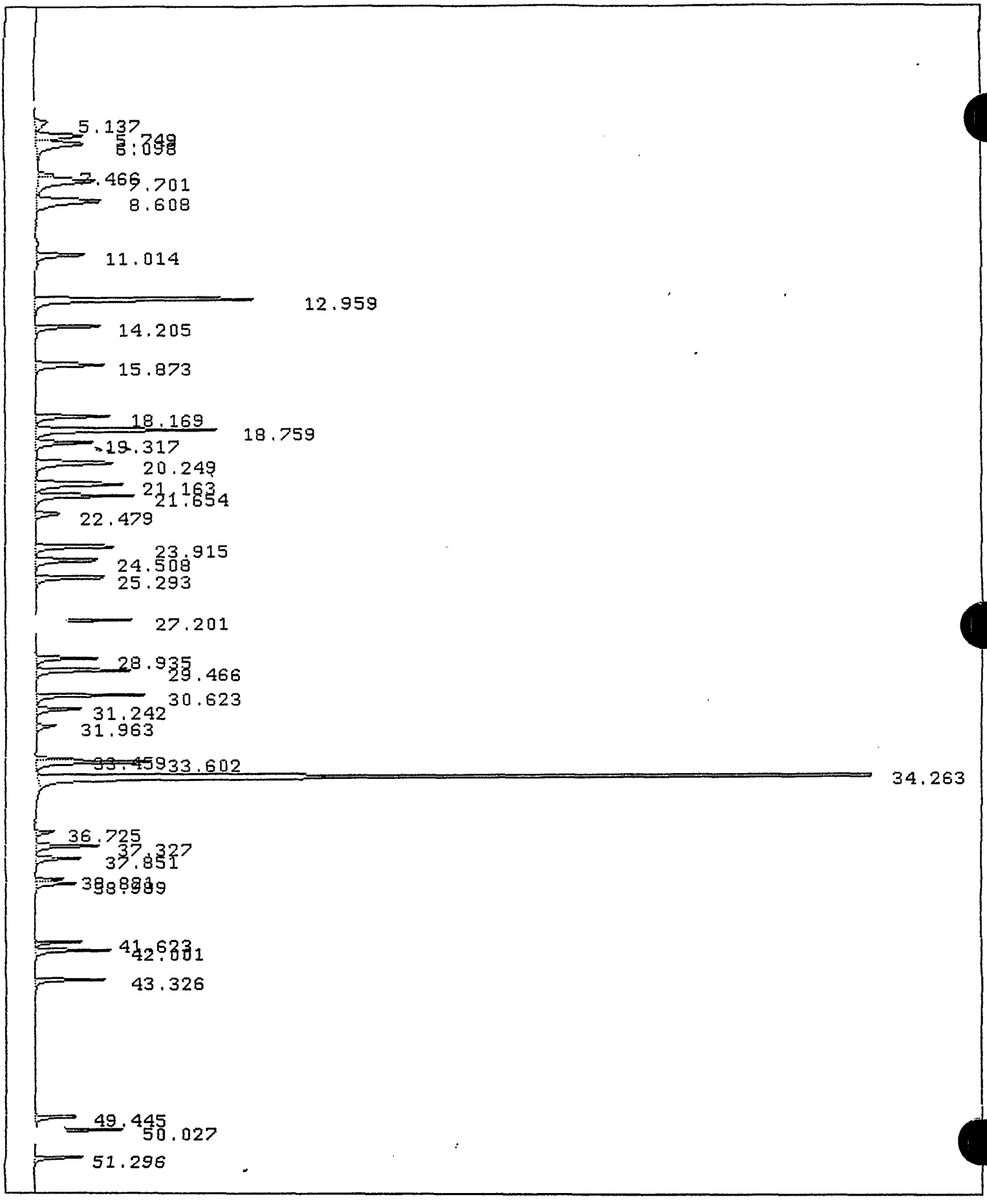
Rpt Job : /DATA/JOB/PLOT25.JOB
Fmt File : /DATA/FORMAT/CAPPID.FMT
Rpt Units : ug/L

REPORT DEVICES

| | Report Device | Number Copies |
|---|---|---|
| 1. | L3 | 1 |



AR303817




SAMPLE NAME: CALSTD1 2.5-500 + 12.5
Resultfile: /CAP/RESULT/H13_254_301.RES
Plot Fields: 3000 - 5500 Instrument - HP5890#13HALL



AR303818

Sample Name: CALSTD1 2.5-500 + 12.5
Batch # 92254/A13 Injected on Thu Sep 10, 1992 11:41:38 pm

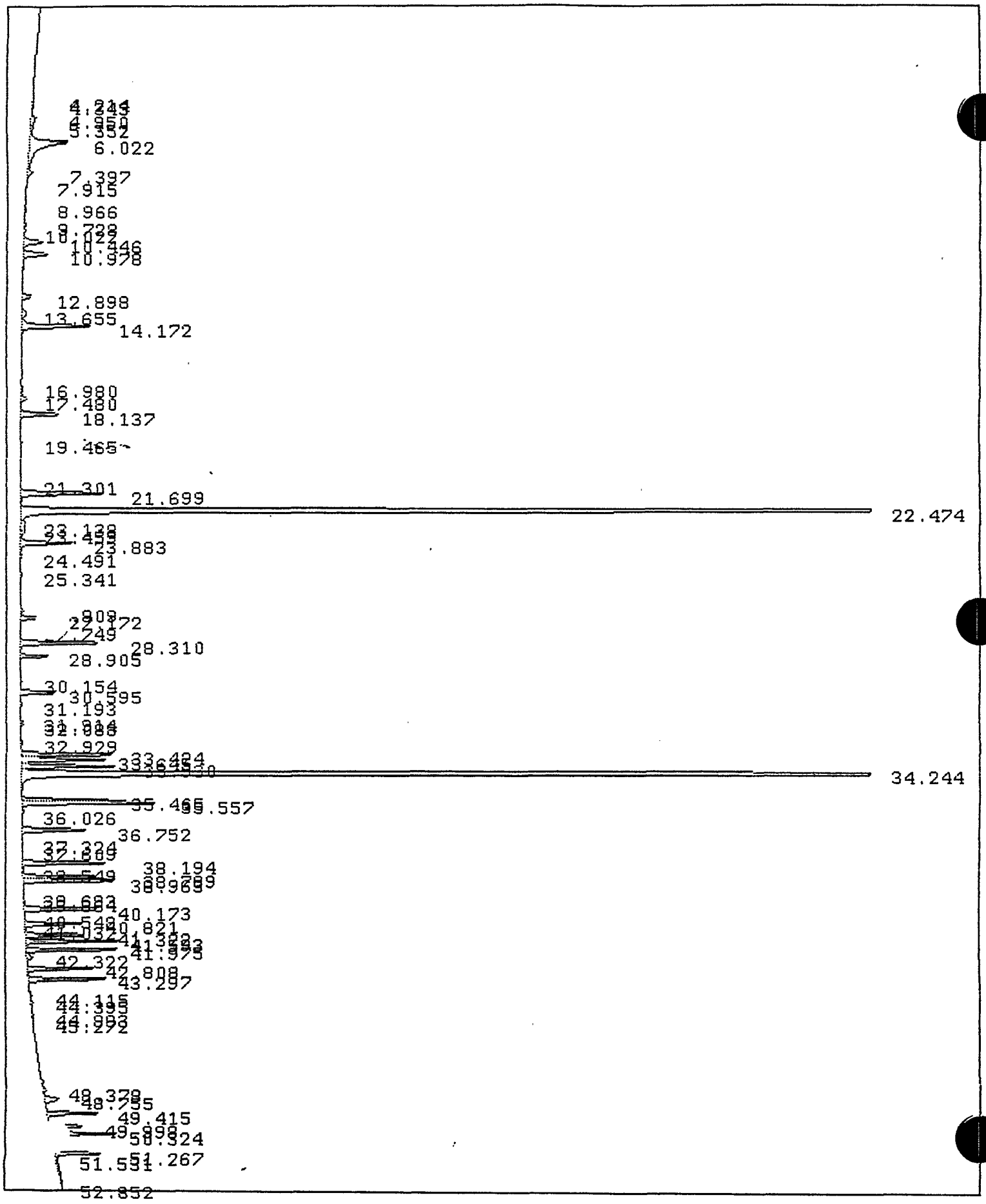
Instrument: HP5890#13HALL Employee #
Calculation: ExternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/H13_254_301.RES
Methodfile: /CAP/METHOD/H13_254.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
105m x 0.53mm ID fused silica RTX-502.2 column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT 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 | 5.14 | 5.05 | 143 | 2909 | BV | 5.00 | DICHLORODIFLUOROMETHANE |
| 2 | 5.75 | 5.72 | 555 | 7099 | VV | 5.00 | CHLOROMETHANE |
| 3 | 6.10 | 6.07 | 553 | 9574 | VB | 5.00 | VINYL CHLORIDE |
| 4 | 7.47 | 7.38 | 196 | 1668 | BV | 5.00 | BROMOMETHANE |
| 5 | 7.70 | 7.65 | 703 | 11029 | VV | 5.00 | CHLOROETHANE |
| 6 | 8.61 | 8.62 | 771 | 12989 | VB | 5.00 | TRICHLOROFLUOROMETHANE |
| 7 | 11.01 | #11.01 | 602 | 6576 | BB | .51 | 1,1-DICHLOROETHENE |
| 8 | 12.96 | #12.96 | 2846 | 25505 | BB | .49 | METHYLENE CHLORIDE |
| 9 | 14.20 | #14.20 | 840 | 7328 | BB | .48 | TRANS-1,2-DICHLOROETHENE |
| 10 | 15.87 | #15.87 | 821 | 8490 | BB | .52 | 1,1-DICHLOROETHANE |
| 11 | 18.17 | #18.17 | 925 | 7807 | BV | .50 | CIS-1,2-DICHLOROETHENE |
| 12 | 18.76 | #18.76 | 2169 | 20267 | VV | .50 | CHLOROFORM |
| [illegible] | 19.32 | #19.32 | 714 | 6318 | VB | .50 | BROMOCHLOROMETHANE |
| [illegible] | 20.25 | #20.25 | 944 | 10821 | BB | .50 | 1,1,1-TRICHLOROETHANE |
| 15 | 21.16 | #21.16 | 1041 | 11279 | BV | .53 | CARBON TETRACHLORIDE |
| 16 | 21.65 | #21.65 | 1206 | 10038 | VB | .53 | 1,2-DICHLOROETHANE |
| 18 | 23.91 | #23.91 | 1097 | 8556 | BV | .50 | TRICHLOROETHENE |
| 19 | 24.51 | #24.51 | 840 | 7563 | VB | .49 | 1,2-DICHLOROPROPANE |
| 20 | 25.29 | #25.29 | 972 | 8047 | BB | .53 | BROMODICHLOROMETHANE |
| 21 | 27.20 | #27.20 | 1235 | 8887 | BB | .62 | CIS-1,3-DICHLOROPROPENE |
| 22 | 28.94 | #28.94 | 783 | 5266 | BV | .41 | TRANS-1,3-DICHLOROPROPENE |
| 23 | 29.47 | #29.47 | 1247 | 9622 | VB | .52 | 1,1,2-TRICHLOROETHANE |
| 24 | 30.62 | #30.62 | 1367 | 10527 | BV | .50 | TETRACHLOROETHENE |
| 25 | 31.24 | #31.24 | 579 | 4587 | VB | .48 | DIBROMOCHLOROMETHANE |
| 26 | 31.96 | #31.96 | 259 | 2207 | BB | .48 | ETHYLENE DIBROMIDE |
| 27 | 33.46 | 33.47 | 444 | 2159 | BV | .51 | CHLOROBENZENE |
| 28 | 33.60 | #33.60 | 1549 | 13462 | VB | .51 | 1,1,1,2-TETRACHLOROETHANE |
| 29 | 34.26 | #34.26 | 18246 | 128002 | BV | 100.00 | SURR-1CL2FBENZENE |
| 30 | 36.72 | #36.72 | 251 | 1897 | BB | .54 | BROMOFORM |
| 31 | 37.33 | #37.33 | 827 | 6015 | BB | .54 | 1,1,2,2-TETRACHLOROETHANE |
| 32 | 37.85 | #37.85 | 548 | 4007 | BB | .50 | 1,2,3-TRICHLOROPROPANE |
| 33 | 38.82 | #38.82 | 344 | 2061 | BV | .50 | O-CHLOROTOLUENE |
| 34 | 38.99 | #38.99 | 509 | 3889 | VB | .51 | P-CHLOROTOLUENE |
| 35 | 41.62 | #41.62 | 678 | 4388 | BV | .50 | M-DICHLOROBENZENE |
| 36 | 42.00 | #42.00 | 979 | 6453 | VB | .54 | P-DICHLOROBENZENE |
| 37 | 43.33 | #43.33 | 891 | 5961 | BB | .56 | O-DICHLOROBENZENE |
| 38 | 49.44 | 49.50 | 647 | 4281 | BB | .49 | 1,2,4-TRICHLOROBENZENE |
| 39 | 50.03 | 50.08 | 1079 | 8195 | BB | .51 | HEXACHLOROBUTADIENE |
| [illegible] | 51.30 | 51.35 | 621 | 4217 | BB | .52 | 1,2,3-TRICHLOROBENZENE |

Reported on Fri Sep 11, 1992 12:36:38 am
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT




SAMPLE NAME: CALSTD1 2.5-500 + 12.5
Resultfile: /CAP/RESULT/P13_254_301.RES
Plot Fields: 3300 - 10000 Instrument - HP5890#13PID

AR303820

Sample Name: CALSTD1 2.5-500 + 12.5
Batch # 92254/A13 Injected on Thu Sep 10, 1992 11:41:38 pm

Instrument: HP5890#13PID Employee #
Calculation: InternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/P13_254_301.RES
Methodfile: /CAP/METHOD/P13_254.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

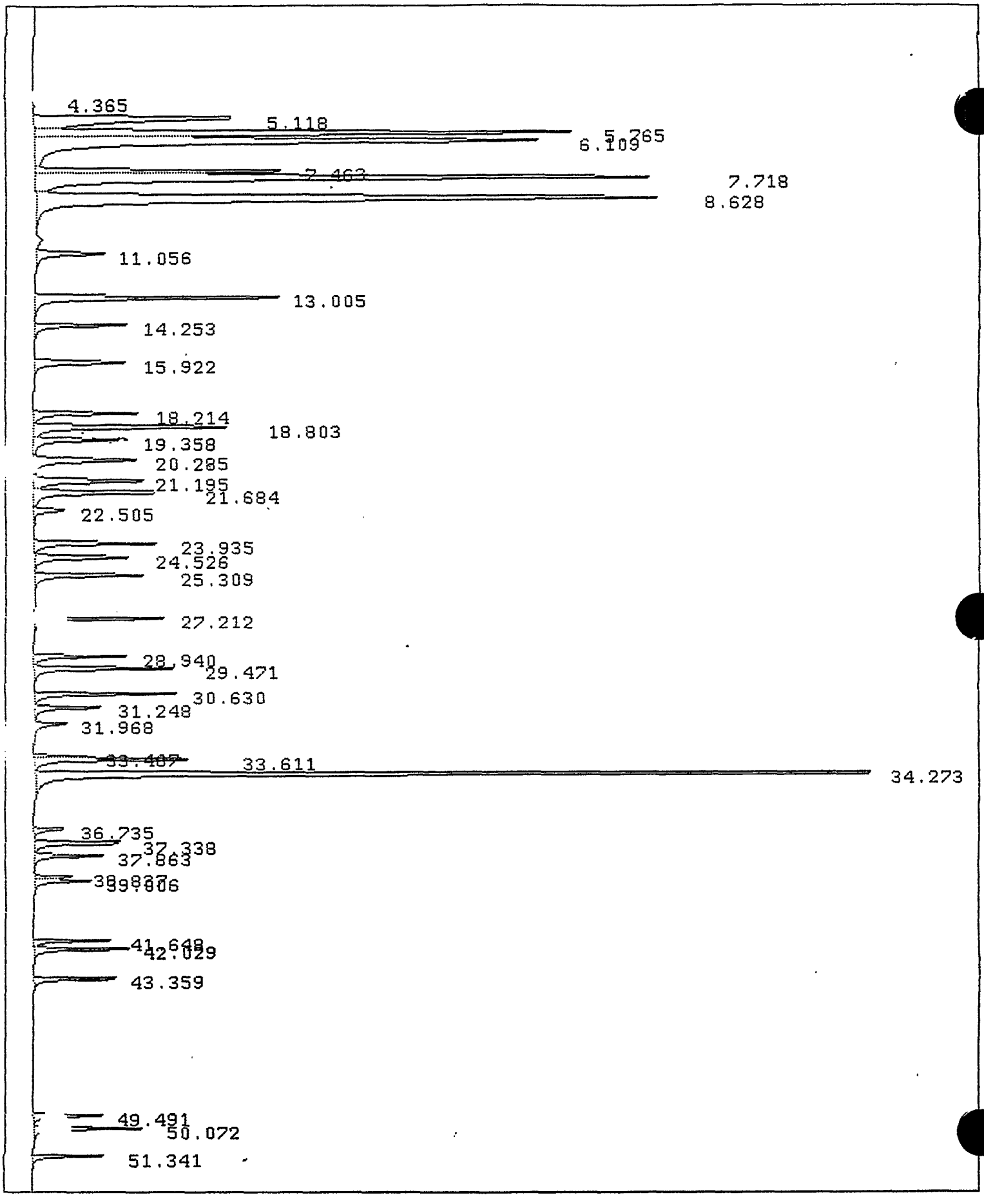
Integration Parameters: Run Time - 53.00
Threshold - 1.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 1.00

| 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 |
|---|---|---|---|---|---|---|---|
| 12 | 10.98 | 10.98 | 783 | 8736 | VV | 12.73 | 1,1-DICHLOROETHENE |
| 15 | 14.17 | #14.17 | 2296 | 20786 | VV | .48 | TRANS-1,2-DICHLOROETHENE |
| 18 | 18.14 | #18.14 | 1353 | 11090 | VB | 13.17 | CIS-1,2-DICHLOROETHENE |
| 21 | 21.70 | #21.70 | 2707 | 23601 | VV | 13.16 | BENZENE |
| 22 | 22.47 | #22.47 | 56097 | 450437 | VV | 100.00 | SURR-FBENZENE |
| 25 | 23.88 | #23.88 | 1698 | 13471 | VV | 13.20 | TRICHLOROETHENE |
| 29 | 27.17 | #27.17 | 1049 | 6922 | VV | .62 | CIS-1,3-DICHLOROPROPENE |
| 31 | 28.31 | #28.31 | 2989 | 21828 | VV | 13.37 | TOLUENE |
| 32 | 28.90 | #28.90 | 1093 | 6652 | VV | 11.23 | TRANS-1,3-DICHLOROPROPENE |
| 34 | 30.60 | #30.60 | 1360 | 9813 | PV | .50 | TETRACHLOROETHENE |
| [illegible] | 33.42 | #33.42 | 3584 | 22695 | BV | 13.54 | CHLOROBENZENE |
| [illegible] | 33.64 | #33.64 | 2842 | 19305 | VV | 12.90 | ETHYLBENZENE |
| [illegible] | 33.93 | #33.93 | 3189 | 21495 | VV | 12.76 | M-XYLENE |
| 42 | 34.24 | #34.24 | 64691 | 415493 | VV | | ISTD-1CL2FBENZENE |
| 44 | 35.56 | #35.56 | 4496 | 30655 | VV | 13.72 | STYRENE |
| 46 | 36.75 | #36.75 | 2194 | 16005 | BV | 13.07 | CUMENE |
| 49 | 38.19 | #38.19 | 3033 | 20232 | VV | 13.45 | N-PROPYLBENZENE |
| 51 | 38.79 | #38.79 | 2965 | 18640 | VV | 12.82 | O-CHLOROTOLUENE |
| 52 | 38.96 | #38.96 | 3621 | 22139 | VV | .51 | P-CHLOROTOLUENE |
| 55 | 40.17 | #40.17 | 2996 | 19976 | VV | 13.47 | 1,2,4-TRIMETHYLBENZENE |
| 57 | 40.82 | #40.82 | 1965 | 14051 | VV | .49 | SEC-BUTYLBENZENE |
| 59 | 41.32 | #41.32 | 2224 | 14680 | VV | 12.99 | P-ISOPROPYLTOLUENE |
| 60 | 41.59 | #41.59 | 3133 | 18853 | VV | 13.26 | M-DICHLOROBENZENE |
| 61 | 41.97 | #41.97 | 3680 | 21024 | VV | 14.37 | P-DICHLOROBENZENE |
| 63 | 42.81 | #42.81 | 2316 | 14827 | PV | 12.41 | N-BUTYLBENZENE |
| 64 | 43.30 | #43.30 | 2973 | 18055 | PV | 15.13 | O-DICHLOROBENZENE |
| 71 | 49.42 | 49.48 | 1715 | 10459 | PV | .49 | 1,2,4-TRICHLOROBENZENE |
| 72 | 50.00 | 50.06 | 1170 | 8323 | VV | .52 | HEXACHLOROBUTADIENE |
| 73 | 50.32 | 50.39 | 2211 | 13641 | VV | 12.31 | NAPHTHALENE |
| 74 | 51.27 | 51.33 | 1668 | 12012 | VV | 12.26 | 1,2,3-TRICHLOROBENZENE |

Internal Standard Range: - (Midpoint - )

Reported on Fri Sep 11, 1992 12:38:48 am
Report Formatfile: /DATA/FORMAT/CAPPID.FMT




SAMPLE NAME: CALSTD2 1.5-200 + 7.5
Resultfile: /CAP/RESULT/H13_254_302.RES
Plot Fields: 3000 - 5500 Instrument - HP5890#13HALL

Sample Name: CALSTD2 1.5-200 + 7.5
Batch # 92254/A13 Injected on Fri Sep 11, 1992 1:11:33 am

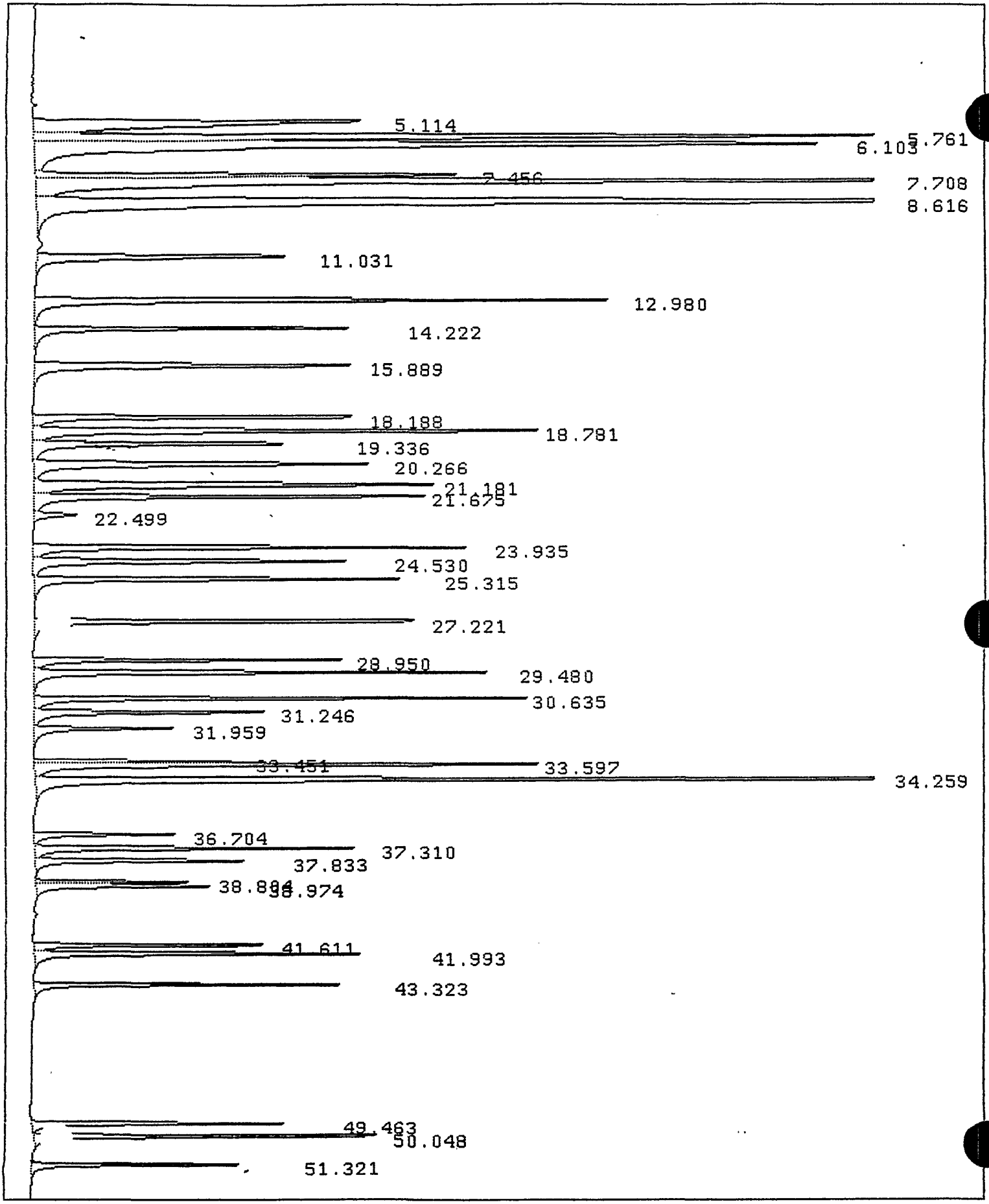
Instrument: HP5890#13HALL Employee #
Calculation: ExternalSTD Quantitation: HeightUnits
`tfile: /CAP/RESULT/H13_254_302.RES
,dfile: /CAP/METHOD/H13_254.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
105m x 0.53mm ID fused silica RTX-502.2 column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 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 |
|---|---|---|---|---|---|---|---|
| 2 | 5.12 | 5.07 | 2427 | 41241 | BV | 7.50 | DICHLORODIFLUOROMETHANE |
| 3 | 5.76 | 5.74 | 6403 | 79379 | VV | 7.50 | CHLOROMETHANE |
| 4 | 6.11 | 6.09 | 5927 | 97265 | VV | 7.50 | VINYL CHLORIDE |
| 5 | 7.46 | 7.41 | 3139 | 29733 | VV | 7.50 | BROMOMETHANE |
| 6 | 7.72 | 7.68 | 7589 | 101504 | VV | 7.50 | CHLOROETHANE |
| 7 | 8.63 | 8.65 | 7390 | 124068 | VB | 7.50 | TRICHLOROFLUOROMETHANE |
| 8 | 11.06 | #11.06 | 807 | 9508 | VB | .76 | 1,1-DICHLOROETHENE |
| 9 | 13.01 | #13.01 | 3259 | 29870 | BB | .73 | METHYLENE CHLORIDE |
| 10 | 14.25 | #14.25 | 1117 | 10317 | BB | .72 | TRANS-1,2-DICHLOROETHENE |
| 11 | 15.92 | #15.92 | 1100 | 11868 | BB | .78 | 1,1-DICHLOROETHANE |
| 12 | 18.21 | #18.21 | 1263 | 11085 | BV | .75 | CIS-1,2-DICHLOROETHENE |
| 13 | 18.80 | #18.80 | 2467 | 23648 | VV | .76 | CHLOROFORM |
| [illegible] | 19.36 | #19.36 | 1068 | 10326 | VV | .75 | BROMOCHLOROMETHANE |
| [illegible] | 20.29 | #20.29 | 1253 | 15663 | VV | .75 | 1,1,1-TRICHLOROETHANE |
| 16 | 21.19 | #21.19 | 1394 | 15940 | VV | .79 | CARBON TETRACHLORIDE |
| 17 | 21.68 | #21.68 | 1722 | 15632 | VV | .79 | 1,2-DICHLOROETHANE |
| 19 | 23.94 | #23.94 | 1506 | 12298 | BV | .75 | TRICHLOROETHENE |
| 20 | 24.53 | #24.53 | 1197 | 11315 | VV | .74 | 1,2-DICHLOROPROPANE |
| 21 | 25.31 | #25.31 | 1413 | 12180 | VB | .79 | BROMODICHLOROMETHANE |
| 22 | 27.21 | #27.21 | 1774 | 13373 | BB | .93 | CIS-1,3-DICHLOROPROPENE |
| 23 | 28.94 | #28.94 | 1168 | 8181 | BV | .62 | TRANS-1,3-DICHLOROPROPENE |
| 24 | 29.47 | #29.47 | 1784 | 14256 | VB | .79 | 1,1,2-TRICHLOROETHANE |
| 25 | 30.63 | #30.63 | 1754 | 14172 | BV | .76 | TETRACHLOROETHENE |
| 26 | 31.25 | #31.25 | 867 | 7560 | VV | .72 | DIBROMOCHLOROMETHANE |
| 27 | 31.97 | #31.97 | 442 | 4053 | VB | .73 | ETHYLENE DIBROMIDE |
| 28 | 33.47 | 33.48 | 660 | 3248 | BV | .76 | CHLOROBENZENE |
| 29 | 33.61 | #33.61 | 2135 | 19310 | VV | .76 | 1,1,1,2-TETRACHLOROETHANE |
| 30 | 34.27 | #34.27 | 18828 | 136230 | VB | 103.19 | SURR-1CL2FBENZENE |
| 31 | 36.73 | #36.73 | 444 | 3567 | BB | .81 | BROMOFORM |
| 32 | 37.34 | #37.34 | 1249 | 9406 | BV | .81 | 1,1,2,2-TETRACHLOROETHANE |
| 33 | 37.86 | #37.86 | 865 | 6586 | VB | .76 | 1,2,3-TRICHLOROPROPANE |
| 34 | 38.84 | #38.84 | 511 | 3142 | BV | .74 | O-CHLOROTOLUENE |
| 35 | 39.01 | #39.01 | 717 | 5744 | VB | .77 | P-CHLOROTOLUENE |
| 36 | 41.65 | #41.65 | 978 | 6581 | BV | .76 | M-DICHLOROBENZENE |
| 37 | 42.03 | #42.03 | 1389 | 9522 | VB | .81 | P-DICHLOROBENZENE |
| 38 | 43.36 | #43.36 | 1242 | 8628 | BV | .84 | O-DICHLOROBENZENE |
| 39 | 49.49 | 49.50 | 926 | 6263 | BB | .74 | 1,2,4-TRICHLOROBENZENE |
| [illegible] | 50.07 | 50.08 | 1351 | 10692 | BB | .77 | HEXACHLOROBUTADIENE |
| [illegible] | 51.34 | 51.35 | 883 | 6174 | BB | .78 | 1,2,3-TRICHLOROBENZENE |

Reported on Fri Sep 11, 1992 2:06:40 am
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT




SAMPLE NAME: CALSTD3 4-200 + 10
Resultfile: /CAP/RESULT/H13_254_303.RES
Plot Fields: 3000 - 5500 Instrument - HP5890#13HALL

AR303824

Sample Name: CALSTD3 4-200 + 10
Batch # 92254/A13 Injected on Fri Sep 11, 1992 2:31:00 am

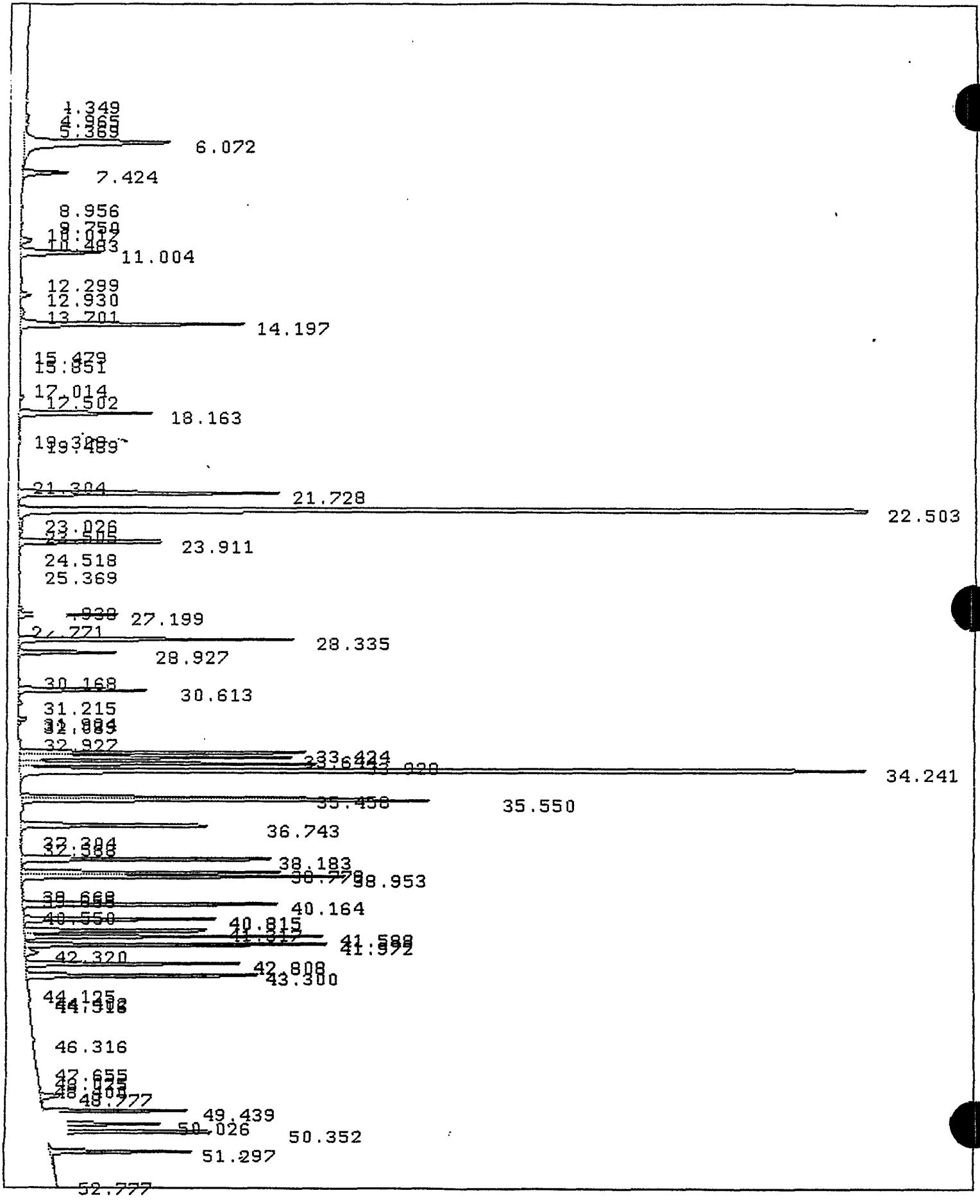
Instrument: HP5890#13HALL Employee #
Calculation: ExternalSTD Quantitation: HeightUnits
tfile: /CAP/RESULT/H13_254_303.RES
nodfile: /CAP/METHOD/H13_254.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
105m x 0.53mm ID fused silica RTX-502.2 column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 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 | 5.11 | 5.06 | 3965 | 67565 | BV | 10.00 | DICHLORODIFLUOROMETHANE |
| 2 | 5.76 | 5.73 | 10009 | 123844 | VV | 10.00 | CHLOROMETHANE |
| 3 | 6.10 | 6.08 | 9222 | 148159 | VV | 10.00 | VINYL CHLORIDE |
| 4 | 7.46 | 7.39 | 5172 | 49470 | VV | 10.00 | BROMOMETHANE |
| 5 | 7.71 | 7.66 | 11587 | 152613 | VV | 10.00 | CHLOROETHANE |
| 6 | 8.62 | 8.63 | 11309 | 189877 | VB | 10.00 | TRICHLOROFLUOROMETHANE |
| 7 | 11.03 | #11.03 | 3098 | 35660 | VB | 2.03 | 1,1-DICHLOROETHENE |
| 8 | 12.98 | #12.98 | 6946 | 64062 | BV | 1.95 | METHYLENE CHLORIDE |
| 9 | 14.22 | #14.22 | 4060 | 38111 | VB | 1.93 | TRANS-1,2-DICHLOROETHENE |
| 10 | 15.89 | #15.89 | 3976 | 42019 | BB | 2.07 | 1,1-DICHLOROETHANE |
| 11 | 18.19 | #18.19 | 4417 | 38681 | BV | 1.99 | CIS-1,2-DICHLOROETHENE |
| 12 | 18.78 | #18.78 | 6373 | 61321 | VV | 2.02 | CHLOROFORM |
| [illegible] | 19.34 | #19.34 | 3479 | 32063 | VV | 2.00 | BROMOCHLOROMETHANE |
| [illegible] | 20.27 | #20.27 | 3968 | 48569 | VV | 1.99 | 1,1,1-TRICHLOROETHANE |
| 15 | 21.18 | #21.18 | 4776 | 54224 | VV | 2.11 | CARBON TETRACHLORIDE |
| 16 | 21.67 | #21.67 | 5190 | 45449 | VV | 2.12 | 1,2-DICHLOROETHANE |
| 18 | 23.93 | #23.93 | 5315 | 43128 | BV | 1.99 | TRICHLOROETHENE |
| 19 | 24.53 | #24.53 | 3920 | 36824 | VV | 1.97 | 1,2-DICHLOROPROPANE |
| 20 | 25.31 | #25.31 | 4593 | 40459 | VB | 2.11 | BROMODICHLOROMETHANE |
| 21 | 27.22 | #27.22 | 5694 | 42633 | BB | 2.49 | CIS-1,3-DICHLOROPROPENE |
| 22 | 28.95 | #28.95 | 3949 | 26948 | BV | 1.66 | TRANS-1,3-DICHLOROPROPENE |
| 23 | 29.48 | #29.48 | 5590 | 43965 | VV | 2.10 | 1,1,2-TRICHLOROETHANE |
| 24 | 30.63 | #30.63 | 6157 | 48527 | VV | 2.02 | TETRACHLOROETHENE |
| 25 | 31.25 | #31.25 | 3037 | 25230 | VV | 1.93 | DIBROMOCHLOROMETHANE |
| 26 | 31.96 | #31.96 | 1766 | 15017 | VB | 1.94 | ETHYLENE DIBROMIDE |
| 27 | 33.45 | 33.46 | 2396 | 12859 | BV | 2.04 | CHLOROBENZENE |
| 28 | 33.60 | #33.60 | 6459 | 56965 | VV | 2.03 | 1,1,1,2-TETRACHLOROETHANE |
| 29 | 34.26 | #34.26 | 19332 | 141118 | VB | 105.95 | SURR-1CL2FBENZENE |
| 30 | 36.70 | #36.70 | 1765 | 13915 | BV | 2.15 | BROMOFORM |
| 31 | 37.31 | #37.31 | 3941 | 29652 | VV | 2.16 | 1,1,2,2-TETRACHLOROETHANE |
| 32 | 37.83 | #37.83 | 2821 | 21456 | VB | 2.02 | 1,2,3-TRICHLOROPROPANE |
| 33 | 38.80 | #38.80 | 1969 | 12474 | BV | 1.98 | O-CHLOROTOLUENE |
| 34 | 38.97 | #38.97 | 2441 | 18763 | VB | 2.06 | P-CHLOROTOLUENE |
| 35 | 41.61 | #41.61 | 3429 | 23044 | BV | 2.02 | M-DICHLOROBENZENE |
| 36 | 41.99 | #41.99 | 4430 | 30619 | VB | 2.16 | P-DICHLOROBENZENE |
| 37 | 43.32 | #43.32 | 3978 | 27865 | BB | 2.23 | O-DICHLOROBENZENE |
| 38 | 49.46 | 49.50 | 3338 | 22682 | BV | 1.97 | 1,2,4-TRICHLOROBENZENE |
| 39 | 50.05 | 50.08 | 4938 | 38499 | VV | 2.06 | HEXACHLOROBUTADIENE |
| [illegible] | 51.32 | 51.35 | 2942 | 20659 | BB | 2.08 | 1,2,3-TRICHLOROBENZENE |

Reported on Fri Sep 11, 1992 3:26:12 am
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT




SAMPLE NAME: CALSTD2 4-200 + 10
Resultfile: /CAP/RESULT/P13_254_303.RES
Plot Fields: 33[illegible] - 10000 Instrument - HP5890#13PID

AR303826

Sample Name: CALSTD2 4-200 + 10
Batch # 92254/A13 Injected on Fri Sep 11, 1992 2:31:00 am

Instrument: HP5890#13PID Employee #
Calculation: InternalSTD Quantitation: HeightUnits
Re tfile: /CAP/RESULT/P13_254_303.RES
odfile: /CAP/METHOD/P13_254.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

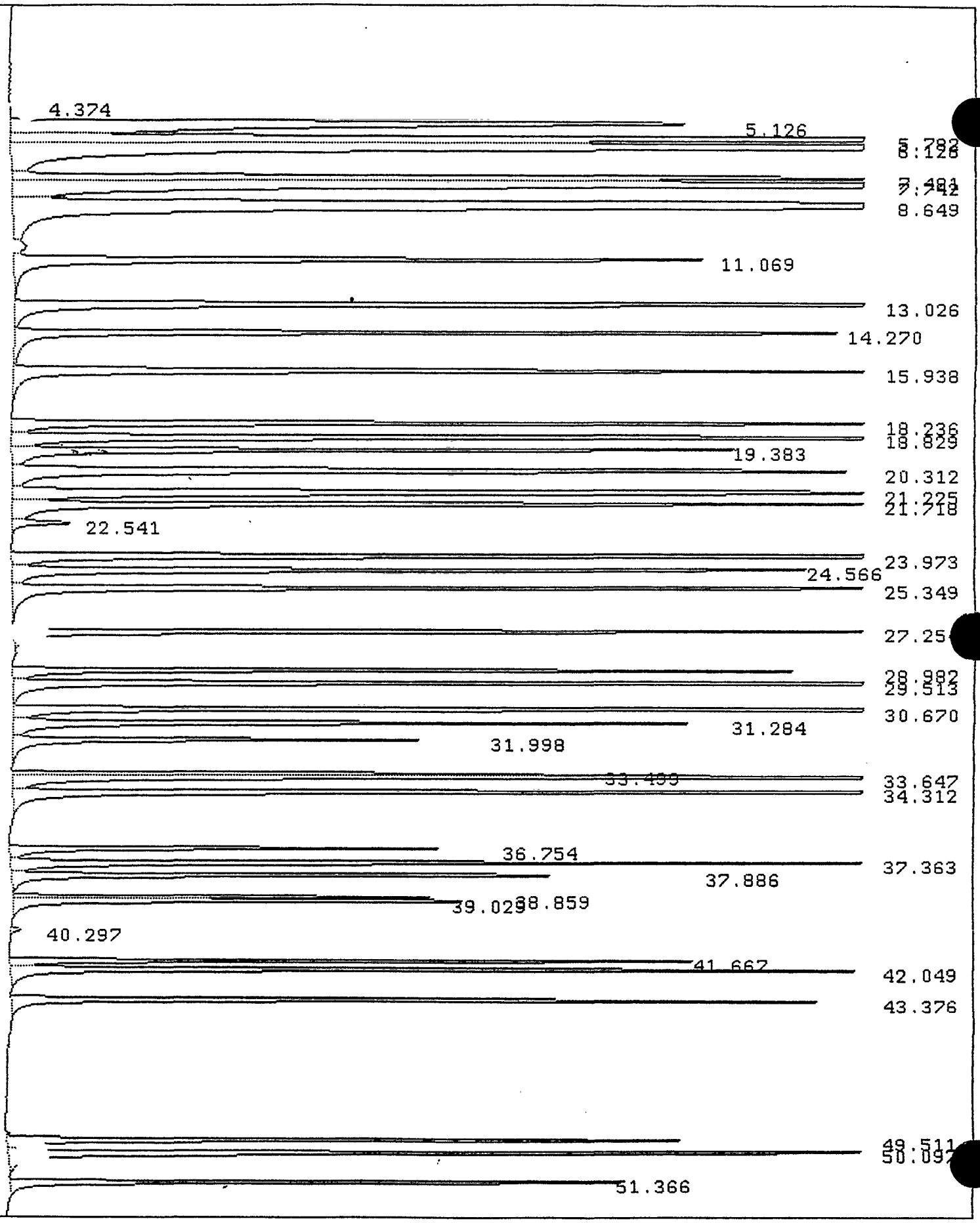
Integration Parameters: Run Time - 53.00
Threshold - 1.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 1.00

| 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 |
|---|---|---|---|---|---|---|---|
| 4 | 6.07 | 6.12 | 4671 | 76489 | VV | 10.00 | VINYL CHLORIDE |
| 10 | 11.00 | 11.00 | 2655 | 28238 | VV | 2.04 | 1,1-DICHLOROETHENE |
| 14 | 14.20 | #14.20 | 7600 | 64226 | VV | 1.96 | TRANS-1,2-DICHLOROETHENE |
| 19 | 18.16 | #18.16 | 4409 | 35624 | PV | 46.58 | CIS-1,2-DICHLOROETHENE |
| 23 | 21.73 | #21.73 | 8820 | 75091 | VV | 46.42 | BENZENE |
| 24 | 22.50 | #22.50 | 55232 | 443656 | VV | 100.38 | SURR-FBENZENE |
| 27 | 23.91 | #23.91 | 5598 | 42439 | VV | 47.17 | TRICHLOROETHENE |
| 31 | 27.20 | #27.20 | 3367 | 22324 | VV | 2.04 | CIS-1,3-DICHLOROPROPENE |
| 33 | 28.34 | #28.34 | 9290 | 66670 | VV | 45.12 | TOLUENE |
| 34 | 28.93 | #28.93 | 3569 | 21497 | VV | 39.37 | TRANS-1,3-DICHLOROPROPENE |
| 36 | 30.61 | #30.61 | 4492 | 31843 | PV | 48.89 | TETRACHLOROETHENE |
| [illegible] | 33.42 | #33.42 | 11481 | 72255 | PV | 46.44 | CHLOROBENZENE |
| [illegible] | 33.64 | #33.64 | 9326 | 62686 | VV | 2.04 | ETHYLBENZENE |
| 43 | 33.93 | #33.93 | 10289 | 69648 | VV | 44.07 | M-XYLENE |
| 44 | 34.24 | #34.24 | 63450 | 405380 | VV | | ISTD-1CL2FBENZENE |
| 46 | 35.55 | #35.55 | 14532 | 99161 | VV | 47.02 | STYRENE |
| 47 | 36.74 | #36.74 | 7183 | 52283 | BV | 2.04 | CUMENE |
| 50 | 38.18 | #38.18 | 9964 | 66393 | PV | 2.12 | N-PROPYLBENZENE |
| 51 | 38.78 | #38.78 | 9671 | 60763 | VV | 44.66 | O-CHLOROTOLUENE |
| 52 | 38.95 | #38.95 | 11751 | 71353 | VV | 2.08 | P-CHLOROTOLUENE |
| 55 | 40.16 | #40.16 | 9574 | 61982 | VV | 46.01 | 1,2,4-TRIMETHYLBENZENE |
| 57 | 40.81 | #40.81 | 6526 | 46549 | VV | 44.50 | SEC-BUTYLBENZENE |
| 58 | 41.32 | #41.32 | 7395 | 48455 | VV | 2.08 | P-ISOPROPYLTOLUENE |
| 59 | 41.59 | #41.59 | 10145 | 61193 | VV | 45.48 | M-DICHLOROBENZENE |
| 60 | 41.97 | #41.97 | 11900 | 68279 | VV | 49.18 | P-DICHLOROBENZENE |
| 62 | 42.81 | #42.81 | 7651 | 48937 | PV | 44.39 | N-BUTYLBENZENE |
| 63 | 43.30 | #43.30 | 9167 | 56274 | VV | 49.74 | O-DICHLOROBENZENE |
| 72 | 49.44 | 49.48 | 5575 | 33642 | PV | 40.61 | 1,2,4-TRICHLOROBENZENE |
| 73 | 50.03 | 50.06 | 3872 | 27172 | VV | 48.36 | HEXACHLOROBUTADIENE |
| 74 | 50.35 | 50.39 | 7116 | 42743 | VV | 43.89 | NAPHTHALENE |
| 75 | 51.30 | 51.33 | 5064 | 32466 | VV | 41.28 | 1,2,3-TRICHLOROBENZENE |

Internal Standard Range: - (Midpoint - )

Reported on Fri Sep 11, 1992 3:28:40 am
Report Formatfile: /DATA/FORMAT/CAPPID.FMT




SAMPLE NAME: CALSTD4 10-200 + 20
Resultfile: /CAP/RESULT/H13_254_304.RES
Plot Fields: 3000 - 5500 Instrument - HP5890#13HALL

AR303828

Sample Name: CALSTD4 10-200 + 20
Batch # 92254/A13 Injected on Fri Sep 11, 1992 4:13:08 am

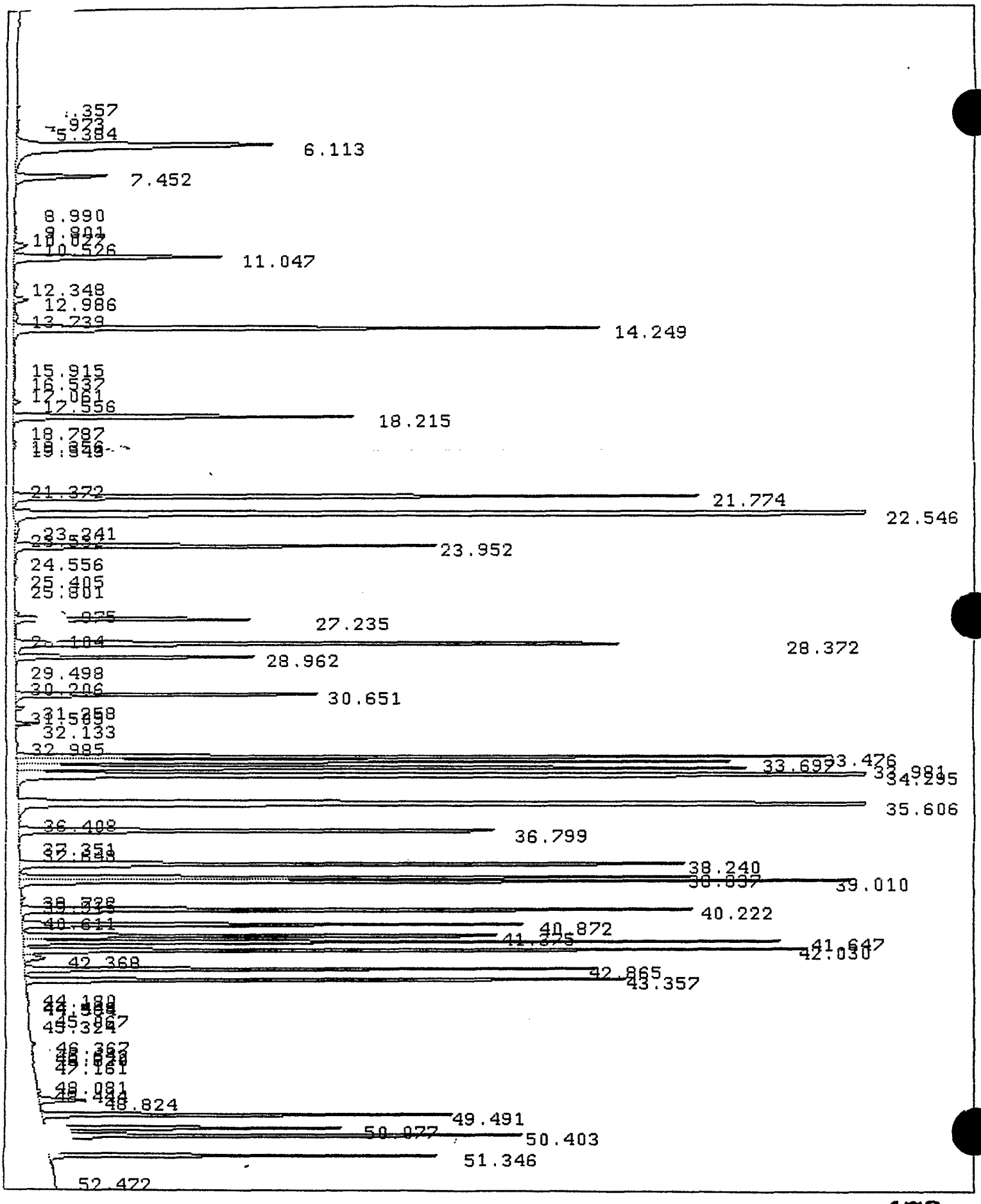
Instrument: HP5890#13HALL Employee #
Calculation: ExternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/H13_254_304.RES
Methodfile: /CAP/METHOD/H13_254.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
105m x 0.53mm ID fused silica RTX-502.2 column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT ID# 04177

Integration Parameters: Run Time - 53.02
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 |
|---|---|---|---|---|---|---|---|
| 2 | 5.13 | 5.08 | 7991 | 143049 | BV | 20.00 | DICHLORODIFLUOROMETHANE |
| 3 | 5.78 | 5.75 | 18413 | 238871 | VV | 20.00 | CHLOROMETHANE |
| 4 | 6.13 | 6.10 | 17458 | 301827 | VV | 20.00 | VINYL CHLORIDE |
| 5 | 7.48 | 7.42 | 10840 | 106925 | VV | 20.00 | BROMOMETHANE |
| 6 | 7.74 | 7.69 | 21933 | 310870 | VV | 20.00 | CHLOROETHANE |
| 7 | 8.65 | 8.66 | 21966 | 392763 | VV | 20.00 | TRICHLOROFLUOROMETHANE |
| 8 | 11.07 | #11.07 | 8201 | 99160 | VB | 5.08 | 1,1-DICHLOROETHENE |
| 9 | 13.03 | #13.03 | 15110 | 140016 | BV | 4.88 | METHYLENE CHLORIDE |
| 10 | 14.27 | #14.27 | 10718 | 100446 | VV | 4.83 | TRANS-1,2-DICHLOROETHENE |
| 11 | 15.94 | #15.94 | 10105 | 110890 | VB | 5.18 | 1,1-DICHLOROETHANE |
| 12 | 18.24 | #18.24 | 11813 | 101571 | BV | 4.97 | CIS-1,2-DICHLOROETHENE |
| 13 | 18.83 | #18.83 | 15178 | 143030 | VV | 5.05 | CHLOROFORM |
| 14 | 19.38 | #19.38 | 9326 | 82313 | VV | 5.00 | BROMOCHLOROMETHANE |
| [illegible] | 20.31 | #20.31 | 9994 | 121169 | VV | 4.97 | 1,1,1-TRICHLOROETHANE |
| [illegible] | 21.22 | #21.22 | 12443 | 139584 | VV | 5.27 | CARBON TETRACHLORIDE |
| 17 | 21.72 | #21.72 | 13450 | 115813 | VV | 5.29 | 1,2-DICHLOROETHANE |
| 19 | 23.97 | #23.97 | 14083 | 113388 | BV | 4.98 | TRICHLOROETHENE |
| 20 | 24.57 | #24.57 | 10247 | 94434 | VV | 4.93 | 1,2-DICHLOROPROPANE |
| 21 | 25.35 | #25.35 | 12063 | 105263 | VB | 5.27 | BROMODICHLOROMETHANE |
| 22 | 27.25 | #27.25 | 14690 | 108165 | BV | 6.22 | CIS-1,3-DICHLOROPROPENE |
| 23 | 28.98 | #28.98 | 10740 | 71686 | BV | 4.15 | TRANS-1,3-DICHLOROPROPENE |
| 24 | 29.51 | #29.51 | 14419 | 111536 | VV | 5.24 | 1,1,2-TRICHLOROETHANE |
| 25 | 30.67 | #30.67 | 15715 | 123096 | VV | 5.04 | TETRACHLOROETHENE |
| 26 | 31.28 | #31.28 | 8306 | 67651 | VV | 4.83 | DIBROMOCHLOROMETHANE |
| 27 | 32.00 | #32.00 | 5220 | 42326 | VB | 4.84 | ETHYLENE DIBROMIDE |
| 28 | 33.50 | 33.51 | 6582 | 37115 | BV | 5.09 | CHLOROBENZENE |
| 29 | 33.65 | #33.65 | 16323 | 142065 | VV | 5.07 | 1,1,1,2-TETRACHLOROETHANE |
| 30 | 34.31 | #34.31 | 19696 | 145623 | VB | 107.95 | SURR-1CL2FBENZENE |
| 31 | 36.75 | #36.75 | 5466 | 42022 | BV | 5.37 | BROMOFORM |
| 32 | 37.36 | #37.36 | 10664 | 79342 | VV | 5.40 | 1,1,2,2-TETRACHLOROETHANE |
| 33 | 37.89 | #37.89 | 7683 | 58136 | VB | 5.04 | 1,2,3-TRICHLOROPROPANE |
| 34 | 38.86 | #38.86 | 5546 | 35689 | BV | 4.96 | O-CHLOROTOLUENE |
| 35 | 39.03 | #39.03 | 6548 | 49166 | VB | 5.14 | P-CHLOROTOLUENE |
| 37 | 41.67 | #41.67 | 9496 | 63417 | BV | 5.04 | M-DICHLOROBENZENE |
| 38 | 42.05 | #42.05 | 11689 | 80163 | VB | 5.41 | P-DICHLOROBENZENE |
| 39 | 43.38 | #43.38 | 10703 | 74953 | BB | 5.57 | O-DICHLOROBENZENE |
| 40 | 49.51 | 49.50 | 9689 | 65629 | VV | 4.92 | 1,2,4-TRICHLOROBENZENE |
| 41 | 50.10 | 50.08 | 13208 | 106163 | VB | 5.15 | HEXACHLOROBUTADIENE |
| [illegible] | 51.37 | 51.35 | 8522 | 58476 | BV | 5.21 | 1,2,3-TRICHLOROBENZENE |

Reported on Fri Sep 11, 1992 5:08:24 am
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT




173

SAMPLE NAME: CALSTD3 10-200 + 20
Resultfile: /CAP/RESULT/P13_254_304.RES
Plot Fields: 3300 - 10000 Instrument - HP5890#13PID

AR303830

Sample Name: CALSTD3 10-200 + 20
Batch # 92254/A13 Injected on Fri Sep 11, 1992 4:13:08 am

Instrument: HP5890#13PID Employee #
Calculation: InternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/P13_254_304.RES
Methodfile: /CAP/METHOD/P13_254.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

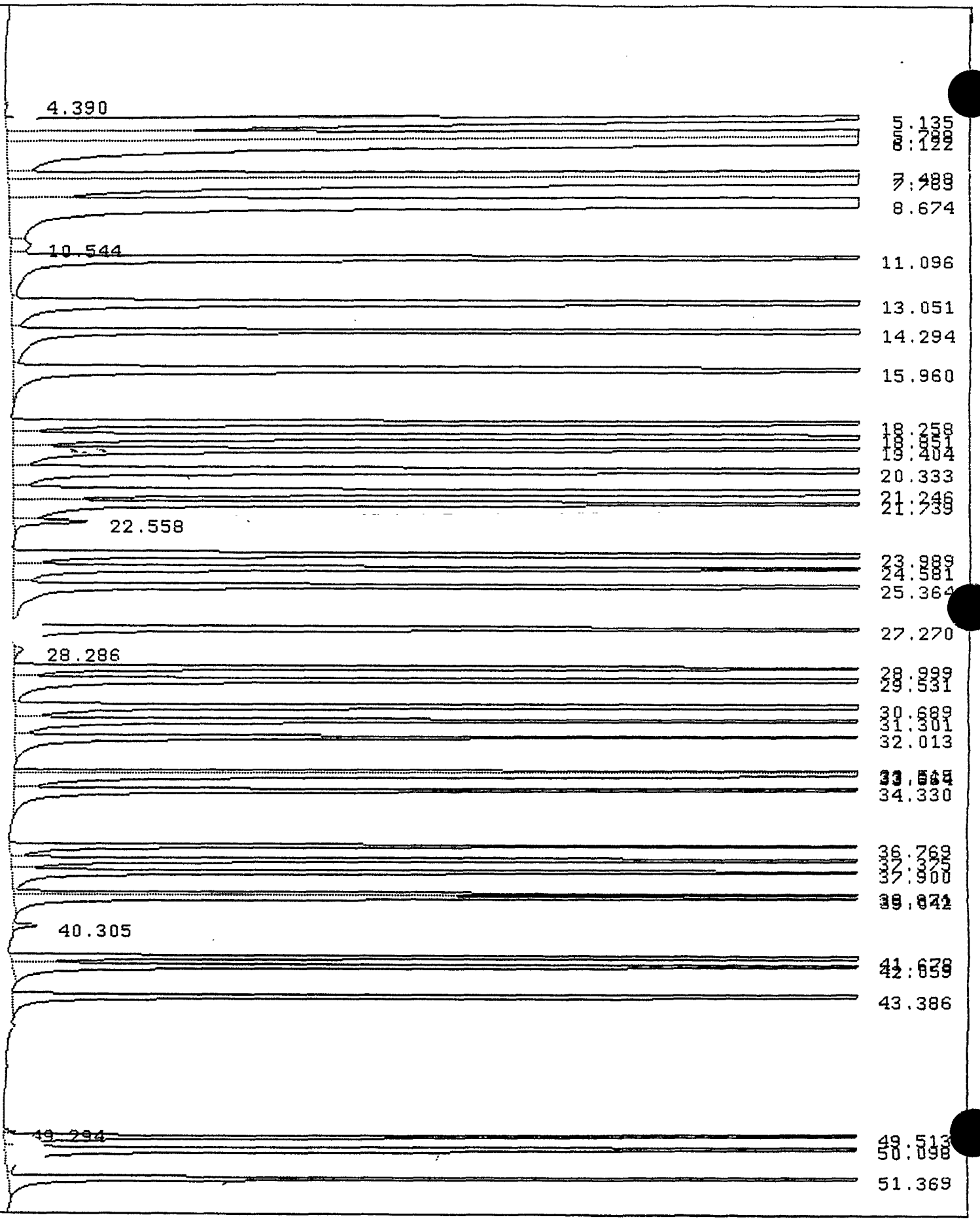
Integration Parameters: Run Time - 53.02
Threshold - 1.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 1.00

| 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 |
|---|---|---|---|---|---|---|---|
| 4 | 6.11 | 6.15 | 8118 | 134770 | VV | 577.80 | VINYL CHLORIDE |
| 10 | 11.05 | 11.04 | 6684 | 72091 | VV | 4.99 | 1,1-DICHLOROETHENE |
| 14 | 14.25 | #14.25 | 19169 | 160903 | VV | 114.13 | TRANS-1,2-DICHLOROETHENE |
| 19 | 18.22 | #18.22 | 11231 | 90510 | VV | 117.10 | CIS-1,2-DICHLOROETHENE |
| 24 | 21.77 | #21.77 | 22245 | 188586 | VV | 115.46 | BENZENE |
| 25 | 22.55 | #22.55 | 56347 | 453050 | VV | 99.51 | SURR-FBENZENE |
| 28 | 23.95 | #23.95 | 14275 | 106180 | VV | 118.63 | TRICHLOROETHENE |
| 33 | 27.23 | #27.23 | 8641 | 57090 | VV | 5.08 | CIS-1,3-DICHLOROPROPENE |
| 35 | 28.37 | #28.37 | 23581 | 167690 | VV | 113.17 | TOLUENE |
| 36 | 28.96 | #28.96 | 9183 | 55251 | VV | 99.67 | TRANS-1,3-DICHLOROPROPENE |
| [illegible] | 30.65 | #30.65 | 11407 | 81086 | VV | 122.63 | TETRACHLOROETHENE |
| [illegible] | 33.48 | #33.48 | 29625 | 184789 | BV | 117.90 | CHLOROBENZENE |
| [illegible] | 33.70 | #33.70 | 23940 | 161336 | VV | 5.10 | ETHYLBENZENE |
| 46 | 33.98 | #33.98 | 26448 | 178168 | VV | 111.46 | M-XYLENE |
| 47 | 34.29 | #34.29 | 65297 | 422229 | VV | | ISTD-1CL2FBENZENE |
| 48 | 35.61 | #35.61 | 37336 | 377519 | VV | 5.40 | STYRENE |
| 50 | 36.80 | #36.80 | 18539 | 133525 | BV | 116.97 | CUMENE |
| 53 | 38.24 | #38.24 | 25594 | 168307 | PV | 5.30 | N-PROPYLBENZENE |
| 54 | 38.84 | #38.84 | 24746 | 155140 | VV | 112.32 | O-CHLOROTOLUENE |
| 55 | 39.01 | #39.01 | 30100 | 182180 | VV | 116.22 | P-CHLOROTOLUENE |
| 58 | 40.22 | #40.22 | 24531 | 157836 | VV | 115.93 | 1,2,4-TRIMETHYLBENZENE |
| 60 | 40.87 | #40.87 | 16770 | 119188 | VV | 112.76 | SEC-BUTYLBENZENE |
| 61 | 41.37 | #41.37 | 18846 | 124491 | VV | 117.94 | P-ISOPROPYLTOLUENE |
| 62 | 41.65 | #41.65 | 26219 | 157310 | VV | 115.32 | M-DICHLOROBENZENE |
| 63 | 42.03 | #42.03 | 30619 | 175142 | VV | 124.16 | P-DICHLOROBENZENE |
| 65 | 42.87 | #42.87 | 19841 | 126163 | VV | 113.51 | N-BUTYLBENZENE |
| 66 | 43.36 | #43.36 | 23479 | 142663 | VV | 125.31 | O-DICHLOROBENZENE |
| 79 | 49.49 | 49.48 | 14628 | 86896 | PV | 104.93 | 1,2,4-TRICHLOROBENZENE |
| 80 | 50.08 | 50.06 | 10001 | 69601 | VV | 123.34 | HEXACHLOROBUTADIENE |
| 81 | 50.40 | 50.39 | 18712 | 111165 | VV | 114.50 | NAPHTHALENE |
| 82 | 51.35 | 51.33 | 13186 | 80527 | VV | 5.20 | 1,2,3-TRICHLOROBENZENE |

Internal Standard Range: - (Midpoint - )

Reported on Fri Sep 11, 1992 5:10:57 am
Report Formatfile: /DATA/FORMAT/CAPPID.FMT




SAMPLE NAME: CALSTD5 10-100 + 20
Resultfile: /CAP/RESULT/H13_254_305.RES
Plot Fields: 3000 - 5500 Instrument

AR303832

Sample Name: CALSTD5 10-100 + 20
Batch # 92254/A13 Injected on Fri Sep 11, 1992 6:06:18 am

Instrument: HP5890#13HALL Employee #
Calculation: ExternalSTD Quantitation: HeightUnits
Re: 'tfile: /CAP/RESULT/H13_254_305.RES
dfile: /CAP/METHOD/H13_254.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 |
|---|---|---|---|---|---|---|---|
| 2 | 5.13 | 5.09 | 16014 | 278766 | BV | 40.00 | DICHLORODIFLUOROMETHANE |
| 3 | 5.79 | 5.76 | 38088 | 478298 | VV | 40.00 | CHLOROMETHANE |
| 4 | 6.12 | 6.11 | 34584 | 559983 | VV | 40.00 | VINYL CHLORIDE |
| 5 | 7.50 | 7.44 | 21735 | 215559 | VV | 40.00 | BROMOMETHANE |
| 6 | 7.76 | 7.71 | 43167 | 583351 | VV | 40.00 | CHLOROETHANE |
| 7 | 8.67 | 8.68 | 43027 | 745735 | VV | 40.00 | TRICHLOROFLUOROMETHANE |
| 9 | 11.10 | #11.10 | 15613 | 192293 | VV | 10.16 | 1,1-DICHLOROETHENE |
| 10 | 13.05 | #13.05 | 27184 | 255915 | VV | 9.76 | METHYLENE CHLORIDE |
| 11 | 14.29 | #14.29 | 20528 | 195444 | VV | 9.66 | TRANS-1,2-DICHLOROETHENE |
| 12 | 15.96 | #15.96 | 19507 | 215486 | VB | 10.36 | 1,1-DICHLOROETHANE |
| 13 | 18.26 | #18.26 | 22907 | 200572 | BV | 9.94 | CIS-1,2-DICHLOROETHENE |
| 14 | 18.85 | #18.85 | 28399 | 271076 | VV | 10.10 | CHLOROFORM |
| 15 | 19.40 | #19.40 | 18145 | 161497 | VV | 10.00 | BROMOCHLOROMETHANE |
| [illegible] | 20.33 | #20.33 | 19042 | 231062 | VV | 9.94 | 1,1,1-TRICHLOROETHANE |
| [illegible] | 21.25 | #21.25 | 23618 | 265996 | VV | 10.54 | CARBON TETRACHLORIDE |
| 18 | 21.74 | #21.74 | 25864 | 221031 | VV | 10.58. | 1,2-DICHLOROETHANE |
| 20 | 23.99 | #23.99 | 27360 | 220870 | BV | 9.96 | TRICHLOROETHENE |
| 21 | 24.58 | #24.58 | 20228 | 184517 | VV | 9.86 | 1,2-DICHLOROPROPANE |
| 22 | 25.36 | #25.36 | 23979 | 209080 | VV | 10.54 | BROMODICHLOROMETHANE |
| 23 | 27.27 | #27.27 | 29007 | 216166 | VV | 12.44 | CIS-1,3-DICHLOROPROPENE |
| 25 | 29.00 | #29.00 | 21078 | 141570 | PV | 8.30 | TRANS-1,3-DICHLOROPROPENE |
| 26 | 29.53 | #29.53 | 27600 | 213483 | VV | 10.48 | 1,1,2-TRICHLOROETHANE |
| 27 | 30.69 | #30.69 | 29990 | 235990 | VV | 10.08 | TETRACHLOROETHENE |
| 28 | 31.30 | #31.30 | 16546 | 133930 | VV | 9.66 | DIBROMOCHLOROMETHANE |
| 29 | 32.01 | #32.01 | 10523 | 84602 | VB | 9.68 | ETHYLENE DIBROMIDE |
| 30 | 33.52 | 33.52 | 13179 | 75706 | BV | 10.18 | CHLOROBENZENE |
| 31 | 33.66 | #33.66 | 31129 | 268748 | VV | 10.14 | 1,1,1,2-TETRACHLOROETHANE |
| 32 | 34.33 | #34.33 | 19553 | 149458 | VB | 107.16 | SURR-1CL2FBENZENE |
| 33 | 36.77 | #36.77 | 11064 | 84168 | BV | 10.74 | BROMOFORM |
| 34 | 37.38 | #37.38 | 19838 | 147147 | VV | 10.80 | 1,1,2,2-TETRACHLOROETHANE |
| 35 | 37.90 | #37.90 | 14598 | 109934 | VV | 10.08 | 1,2,3-TRICHLOROPROPANE |
| 36 | 38.87 | #38.87 | 11100 | 72259 | VV | 9.92 | O-CHLOROTOLUENE |
| 37 | 39.04 | #39.04 | 12901 | 95556 | VV | 10.28 | P-CHLOROTOLUENE |
| 39 | 41.68 | #41.68 | 18897 | 126055 | BV | 10.08 | M-DICHLOROBENZENE |
| 40 | 42.06 | #42.06 | 23066 | 154539 | VV | 10.82 | P-DICHLOROBENZENE |
| 41 | 43.39 | #43.39 | 21046 | 145880 | BB | 11.14 | O-DICHLOROBENZENE |
| 43 | 49.51 | 49.50 | 19067 | 128776 | VV | 9.84 | 1,2,4-TRICHLOROBENZENE |
| 44 | 50.10 | 50.08 | 25474 | 206211 | VV | 10.30 | HEXACHLOROBUTADIENE |
| 45 | 51.37 | 51.35 | 16143 | 112868 | VB | 10.42 | 1,2,3-TRICHLOROBENZENE |

[illegible]rted on Fri Sep 11, 1992 7:02:05 am
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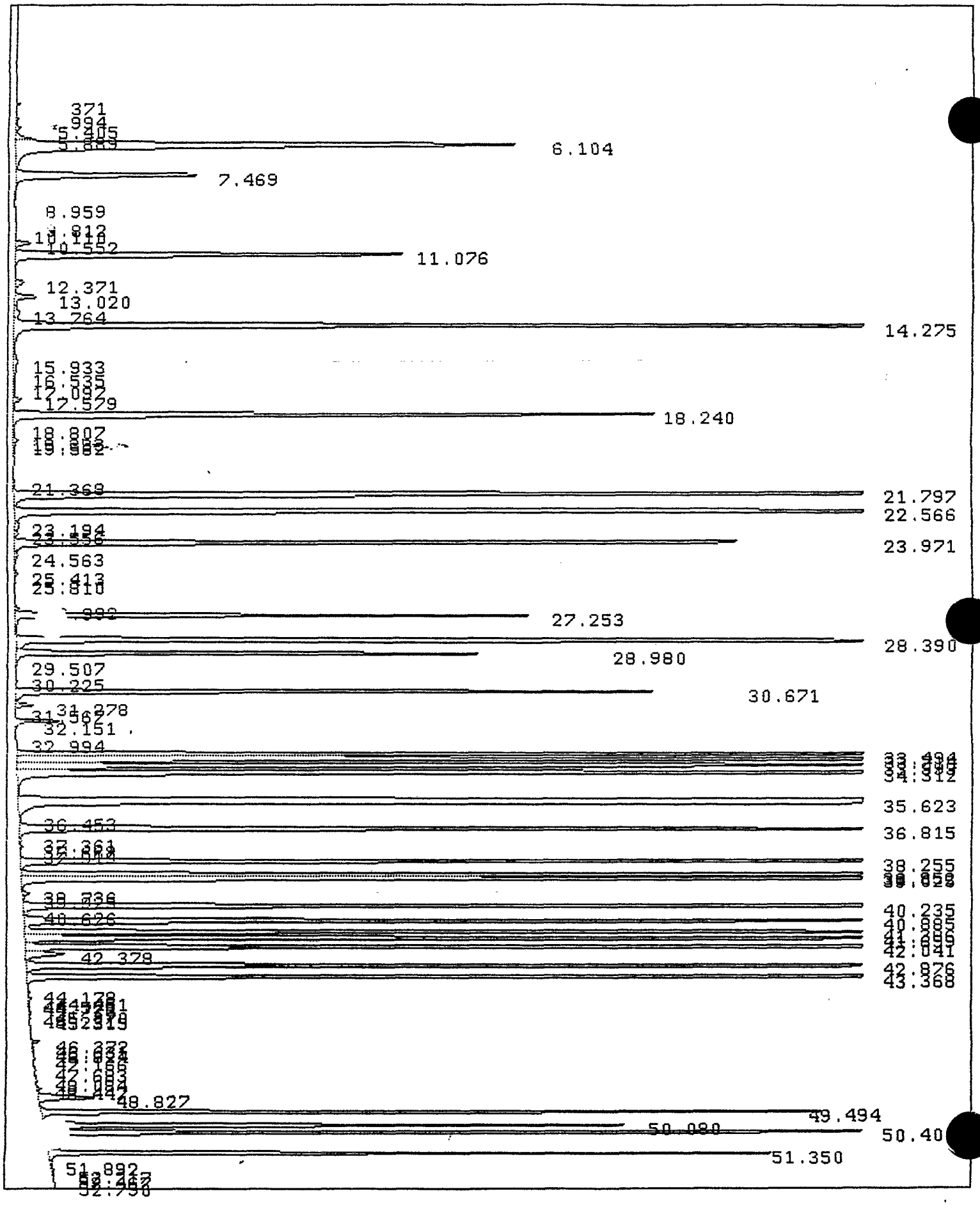



SAMPLE NAME: CALSTD4 10-100 + 20
Resultfile: /CAP/RESULT/P13_254_305.RES
Plot Fields: 3300 - 10000 Instrument - HP5890#13PID

AR303834

Sample Name: CALSTD4 10-100 + 20
Batch # 92254/A13 Injected on Fri Sep 11, 1992 6:06:18 am

Instrument: HP5890#13PID Employee #
Calculation: InternalSTD Quantitation: HeightUnits
'tfile: /CAP/RESULT/P13_254_305.RES
.odfile: /CAP/METHOD/P13_254.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

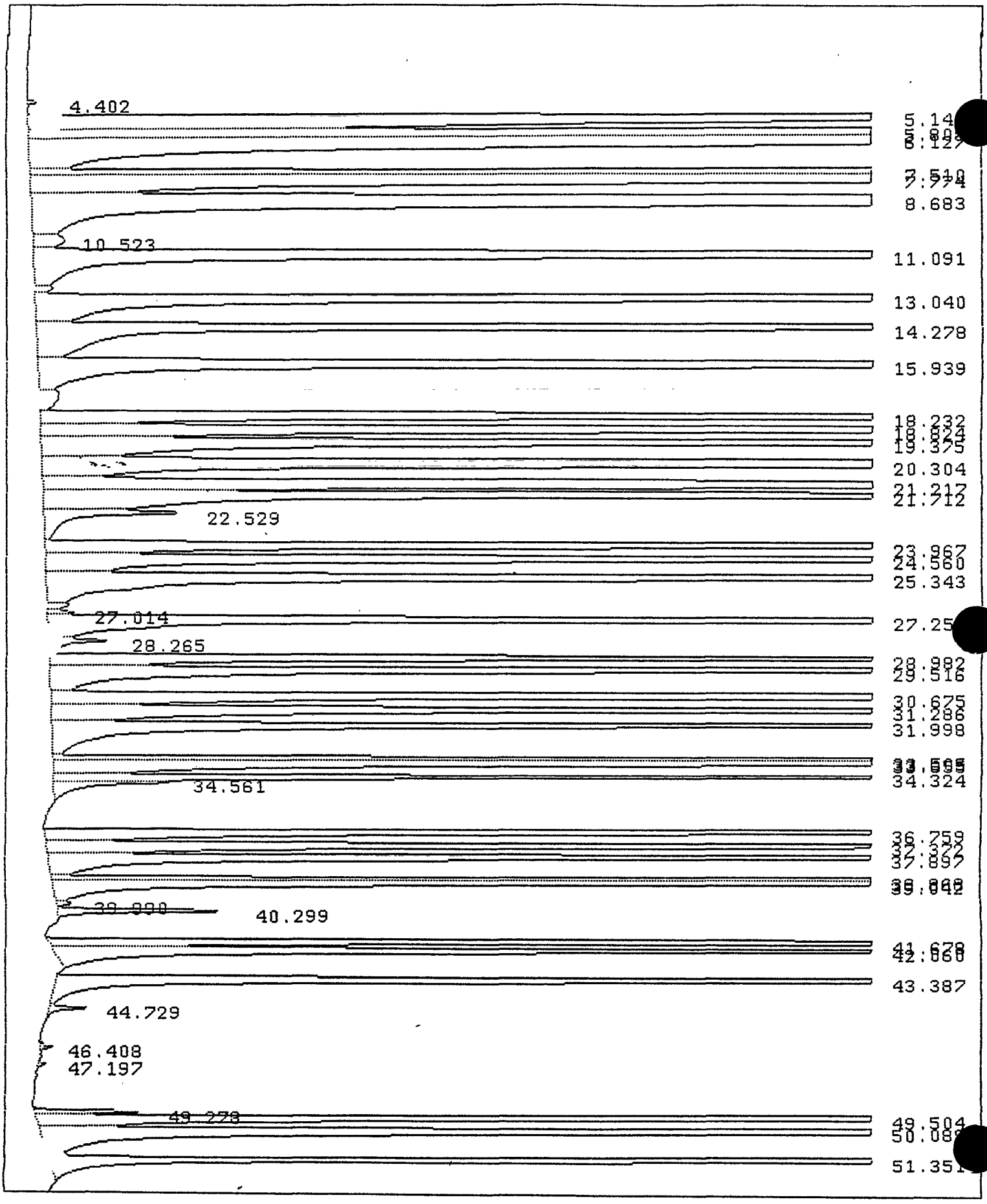
Integration Parameters: Run Time - 53.00
Threshold - 1.0 Minimum Area - 1.000E+02
Peak Width - .10000 Dilution Factor - 1.00

| 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 |
|---|---|---|---|---|---|---|---|
| 5 | 6.10 | 6.16 | 15798 | 238501 | VV | 40.00 | VINYL CHLORIDE |
| 11 | 11.08 | 11.06 | 13101 | 139433 | VV | 9.79 | 1,1-DICHLOROETHENE |
| 15 | 14.28 | #14.28 | 37800 | 313701 | VV | 9.80 | TRANS-1,2-DICHLOROETHENE |
| 20 | 18.24 | #18.24 | 22265 | 179714 | VV | 10.00 | CIS-1,2-DICHLOROETHENE |
| 25 | 21.80 | #21.80 | 44379 | 371710 | VV | 10.20 | BENZENE |
| 26 | 22.57 | #22.57 | 56284 | 453696 | VV | 99.49 | SURR-FBENZENE |
| 29 | 23.97 | #23.97 | 28422 | 209061 | VV | 10.00 | TRICHLOROETHENE |
| 34 | 27.25 | #27.25 | 17352 | 113382 | VV | 12.40 | CIS-1,3-DICHLOROPROPENE |
| 35 | 28.39 | #28.39 | 46576 | 330803 | VV | 9.80 | TOLUENE |
| 36 | 28.98 | #28.98 | 18211 | 109130 | VV | 8.40 | TRANS-1,3-DICHLOROPROPENE |
| | 30.67 | #30.67 | 22593 | 159430 | PV | 10.20 | TETRACHLOROETHENE |
| | 33.49 | #33.49 | 58994 | 366384 | BV | 10.20 | CHLOROBENZENE |
| 45 | 33.71 | #33.71 | 47254 | 318775 | VV | 10.20 | ETHYLBENZENE |
| 46 | 34.00 | #34.00 | 52142 | 351945 | VV | 9.80 | M-XYLENE |
| 47 | 34.31 | #34.31 | 65240 | 425539 | VV | | ISTD-1CL2FBENZENE |
| 48 | 35.62 | #35.62 | 74286 | 746716 | VV | 10.80 | STYRENE |
| 50 | 36.81 | #36.81 | 36841 | 263896 | VV | 10.20 | CUMENE |
| 54 | 38.25 | #38.25 | 50413 | 330009 | PV | 10.60 | N-PROPYLBENZENE |
| 55 | 38.85 | #38.85 | 48860 | 305927 | VV | 10.00 | O-CHLOROTOLUENE |
| 56 | 39.02 | #39.02 | 59409 | 359571 | VV | 10.40 | P-CHLOROTOLUENE |
| 59 | 40.23 | #40.23 | 48499 | 311140 | VV | 10.20 | 1,2,4-TRIMETHYLBENZENE |
| 61 | 40.88 | #40.88 | 32844 | 233377 | VV | 9.80 | SEC-BUTYLBENZENE |
| 62 | 41.39 | #41.39 | 37153 | 244132 | VV | 10.40 | P-ISOPROPYLTOLUENE |
| 63 | 41.66 | #41.66 | 51938 | 312433 | VV | 10.20 | M-DICHLOROBENZENE |
| 64 | 42.04 | #42.04 | 60622 | 346500 | VV | 11.00 | P-DICHLOROBENZENE |
| 66 | 42.88 | #42.88 | 38836 | 247363 | VV | 10.00 | N-BUTYLBENZENE |
| 67 | 43.37 | #43.37 | 46184 | 280833 | VV | 11.20 | O-DICHLOROBENZENE |
| 83 | 49.49 | 49.48 | 28565 | 169398 | VV | 9.80 | 1,2,4-TRICHLOROBENZENE |
| 84 | 50.08 | 50.06 | 19588 | 136572 | VV | 10.40 | HEXACHLOROBUTADIENE |
| 85 | 50.41 | 50.39 | 35123 | 208009 | VV | 11.20 | NAPHTHALENE |
| 86 | 51.35 | 51.33 | 24847 | 151887 | VV | 10.40 | 1,2,3-TRICHLOROBENZENE |

Internal Standard Range: - (Midpoint - )

Reported on Fri Sep 11, 1992 7:04:37 am
Report Formatfile: /DATA/FORMAT/CAPPID.FMT




SAMPLE NAME: CALSTD6 25-50 +15
Resultfile: /CAP/RESULT/H13_254_306.RES
Plot Fields: 3000 - 5500 Instrument - HP5890#13HAL



AR303836

Sample Name: CALSTD6 25-50 +15
Batch # 92254/A13 Injected on Fri Sep 11, 1992 8:56:40 am

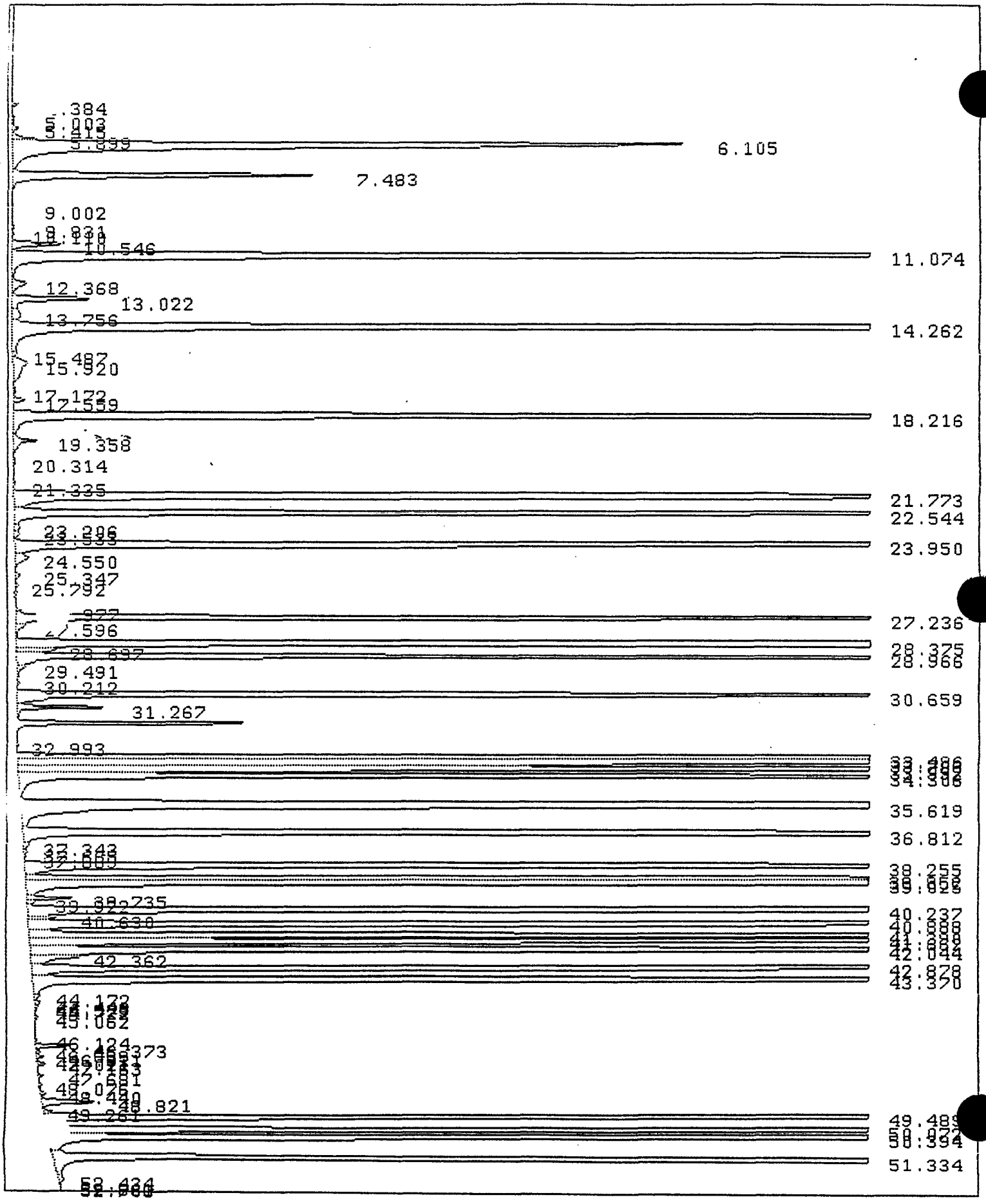
Instrument: HP5890#13HALL Employee #
Calculation: ExternalSTD Quantitation: HeightUnits
Res tfile: /CAP/RESULT/H13_254_306.RES
dfile: /CAP/METHOD/H13_254.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
105m x 0.53mm ID fused silica RTX-502.2 column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT 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 |
|---|---|---|---|---|---|---|---|
| 2 | 5.14 | 5.09 | 24335 | 436683 | BV | 60.00 | DICHLORODIFLUOROMETHANE |
| 3 | 5.81 | 5.76 | 54098 | 703910 | VV | 60.00 | CHLOROMETHANE |
| 4 | 6.13 | 6.11 | 50992 | 872734 | VV | 60.00 | VINYL CHLORIDE |
| 5 | 7.51 | 7.43 | 33656 | 343381 | VV | 60.00 | BROMOMETHANE |
| 6 | 7.77 | 7.70 | 64586 | 920346 | VV | 60.00 | CHLOROETHANE |
| 7 | 8.68 | 8.68 | 64685 | 1171954 | VV | 60.00 | TRICHLOROFLUOROMETHANE |
| 9 | 11.09 | #11.09 | 70480 | 836946 | VV | 50.80 | 1,1-DICHLOROETHENE |
| 10 | 13.04 | #13.04 | 117789 | 1105188 | VV | 48.80 | METHYLENE CHLORIDE |
| 11 | 14.28 | #14.28 | 92296 | 866108 | VV | 48.30 | TRANS-1,2-DICHLOROETHENE |
| 12 | 15.94 | #15.94 | 88440 | 982465 | VV | 51.80 | 1,1-DICHLOROETHANE |
| 13 | 18.23 | #18.23 | 104346 | 910532 | VV | 49.70 | CIS-1,2-DICHLOROETHENE |
| 14 | 18.82 | #18.82 | 123476 | 1175101 | VV | 50.50 | CHLOROFORM |
| 15 | 19.38 | #19.38 | 87202 | 755459 | VV | 50.00 | BROMOCHLOROMETHANE |
| [illegible] | 20.30 | #20.30 | 85492 | 1034009 | VV | 49.70 | 1,1,1-TRICHLOROETHANE |
| [illegible] | 21.22 | #21.22 | 104060 | 1181229 | VV | 52.70 | CARBON TETRACHLORIDE |
| 18 | 21.71 | #21.71 | 117956 | 983378 | VV | 52.90 | 1,2-DICHLOROETHANE |
| 20 | 23.97 | #23.97 | 121715 | 986825 | VV | 49.80 | TRICHLOROETHENE |
| 21 | 24.56 | #24.56 | 91874 | 828894 | VV | 49.30 | 1,2-DICHLOROPROPANE |
| 22 | 25.34 | #25.34 | 110588 | 958930 | VV | 52.70 | BROMODICHLOROMETHANE |
| 24 | 27.25 | #27.25 | 131491 | 968876 | VV | 62.20 | CIS-1,3-DICHLOROPROPENE |
| 26 | 28.98 | #28.98 | 100412 | 664615 | VV | 41.50 | TRANS-1,3-DICHLOROPROPENE |
| 27 | 29.52 | #29.52 | 128582 | 984724 | VV | 52.40 | 1,1,2-TRICHLOROETHANE |
| 28 | 30.68 | #30.68 | 132970 | 1046370 | VV | 50.40 | TETRACHLOROETHENE |
| 29 | 31.29 | #31.29 | 82393 | 660074 | VV | 48.30 | DIBROMOCHLOROMETHANE |
| 30 | 32.00 | #32.00 | 56307 | 447299 | VV | 48.40 | ETHYLENE DIBROMIDE |
| 31 | 33.50 | 33.52 | 63442 | 380147 | VV | 50.90 | CHLOROBENZENE |
| 32 | 33.66 | #33.66 | 139660 | 1183570 | VV | 50.70 | 1,1,1,2-TETRACHLOROETHANE |
| 33 | 34.32 | #34.32 | 19891 | 146011 | VV | 109.02 | SURR-1CL2FBENZENE |
| 35 | 36.76 | #36.76 | 60639 | 463655 | BV | 53.70 | BROMOFORM |
| 36 | 37.37 | #37.37 | 99409 | 728240 | VV | 54.00 | 1,1,2,2-TETRACHLOROETHANE |
| 37 | 37.90 | #37.90 | 74023 | 546082 | VV | 50.40 | 1,2,3-TRICHLOROPROPANE |
| 38 | 38.87 | #38.87 | 53932 | 355573 | VV | 49.60 | O-CHLOROTOLUENE |
| 39 | 39.04 | #39.04 | 60115 | 429056 | VV | 51.40 | P-CHLOROTOLUENE |
| 42 | 41.68 | #41.68 | 89662 | 591732 | BV | 50.40 | M-DICHLOROBENZENE |
| 43 | 42.06 | #42.06 | 106510 | 697395 | VV | 54.10 | P-DICHLOROBENZENE |
| 44 | 43.39 | #43.39 | 99094 | 683168 | BV | 55.70 | O-DICHLOROBENZENE |
| 49 | 49.50 | 49.50 | 95923 | 628725 | VV | 49.20 | 1,2,4-TRICHLOROBENZENE |
| 50 | 50.09 | 50.08 | 114636 | 910304 | VV | 51.50 | HEXACHLOROBUTADIENE |
| [illegible] | 51.35 | 51.35 | 83048 | 564360 | VV | 52.10 | 1,2,3-TRICHLOROBENZENE |

Reported on Fri Sep 11, 1992 9:51:59 am
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT




SAMPLE NAME: CALSTD5 25-50 + 15
Resultfile: /CAP/RESULT/P13_254_306.RES
Plot Fields: 3300 - 10000 Instrument HP5890A13PID

AR303838

Sample Name: CALSTD5 25-50 + 15
Batch # 92254/A13 Injected on Fri Sep 11, 1992 8:56:40 am

Instrument: HP5890#13PID Employee #
Calculation: InternalSTD Quantitation: HeightUnits
:file: /CAP/RESULT/P13_254_306.RES
odfile: /CAP/METHOD/P13_254.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 - 1.0 Minimum Area - 1.000E+02
Peak Width - .10000 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 |
|---|---|---|---|---|---|---|---|
| 5 | 6.10 | 6.15 | 21272 | 353371 | VV | 60.00 | VINYL CHLORIDE |
| 11 | 11.07 | 11.05 | 63319 | 679882 | VV | 51.00 | 1,1-DICHLOROETHENE |
| 15 | 14.26 | #14.26 | 182225 | 1493602 | VV | 49.00 | TRANS-1,2-DICHLOROETHENE |
| 20 | 18.22 | #18.22 | 110630 | 882541 | VV | 50.00 | CIS-1,2-DICHLOROETHENE |
| 24 | 21.77 | #21.77 | 216170 | 1814216 | PV | 51.00 | BENZENE |
| 25 | 22.54 | #22.54 | 55881 | 457376 | VV | 98.96 | SURR-FBENZENE |
| 28 | 23.95 | #23.95 | 139934 | 1025401 | VV | 50.00 | TRICHLOROETHENE |
| 33 | 27.24 | #27.24 | 88618 | 569075 | VV | 62.00 | CIS-1,3-DICHLOROPROPENE |
| 35 | 28.38 | #28.38 | 227656 | 1607405 | VV | 49.00 | TOLUENE |
| 37 | 28.97 | #28.97 | 94571 | 562926 | VV | 42.00 | TRANS-1,3-DICHLOROPROPENE |
| [illegible] | 30.66 | #30.66 | 112320 | 791439 | VV | 51.00 | TETRACHLOROETHENE |
| [illegible] | 33.49 | #33.49 | 292715 | 1827863 | BV | 51.00 | CHLOROBENZENE |
| 44 | 33.71 | #33.71 | 234708 | 1576458 | VV | 51.00 | ETHYLBENZENE |
| 45 | 33.99 | #33.99 | 258215 | 1738634 | VV | 49.00 | M-XYLENE |
| 46 | 34.31 | #34.31 | 65121 | 438791 | VV | | ISTD-1CL2FBENZENE |
| 47 | 35.62 | #35.62 | 368400 | 3701212 | VV | 54.00 | STYRENE |
| 48 | 36.81 | #36.81 | 183939 | 1327025 | VV | 51.00 | CUMENE |
| 52 | 38.25 | #38.25 | 251317 | 1646000 | PV | 53.00 | N-PROPYLBENZENE |
| 53 | 38.85 | #38.85 | 245206 | 1535488 | VV | 50.00 | O-CHLOROTOLUENE |
| 54 | 39.03 | #39.03 | 295199 | 1787384 | VV | 52.00 | P-CHLOROTOLUENE |
| 57 | 40.24 | #40.24 | 243361 | 1564747 | VV | 51.00 | 1,2,4-TRIMETHYLBENZENE |
| 59 | 40.89 | #40.89 | 165839 | 1176434 | VV | 49.00 | SEC-BUTYLBENZENE |
| 60 | 41.39 | #41.39 | 188141 | 1233053 | VV | 52.00 | P-ISOPROPYLTOLUENE |
| 61 | 41.66 | #41.66 | 265256 | 1589668 | VV | 51.00 | M-DICHLOROBENZENE |
| 62 | 42.04 | #42.04 | 307938 | 1766236 | VV | 55.00 | P-DICHLOROBENZENE |
| 64 | 42.88 | #42.88 | 197407 | 1255135 | VV | 50.00 | N-BUTYLBENZENE |
| 65 | 43.37 | #43.37 | 237870 | 1453161 | VV | 56.00 | O-DICHLOROBENZENE |
| 82 | 49.49 | 49.48 | 154020 | 894307 | VV | 49.00 | 1,2,4-TRICHLOROBENZENE |
| 83 | 50.07 | 50.06 | 97336 | 678658 | VV | 52.00 | HEXACHLOROBUTADIENE |
| 84 | 50.39 | 50.39 | 199064 | 1169204 | VV | 56.00 | NAPHTHALENE |
| 85 | 51.33 | 51.33 | 136852 | 824215 | VV | 52.00 | 1,2,3-TRICHLOROBENZENE |

Internal Standard Range: - (Midpoint - )

Reported on Fri Sep 11, 1992 9:55:14 am
Report Formatfile: /DATA/FORMAT/CAPPID.FMT

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Quality Control Summary

Continuing Calibration
Volatiles by GC

Calibration Date.....: 09/11/92 Batch Number: 92268/A13

Instrument Identification..: 4177 Inj #..: 443

Continuing Calibration Date: 09/24/92

| Compound | Reference Concentration | Continuing Calib Result | Acceptance Range 80%- | 120% | Out of Range |
|---|---|---|---|---|---|
| Chloromethane | 10.0 | 9.1 | 8.0 | 12.0 | |
| Bromomethane | 10.0 | 10.5 | 8.0 | 12.0 | |
| Chloroethane | 10.0 | 9.8 | 8.0 | 12.0 | |
| Methylene chloride | 4.8 | 4.2 | 3.9 | 5.8 | |
| trans-1,2-Dichloroethene | 4.9 | 5.1 | 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 | 5.0 | 4.1 | 6.1 | |
| 1,2-Dichloropropane | 5.0 | 5.2 | 4.0 | 5.9 | |
| Bromodichloromethane | 5.2 | 5.2 | 4.1 | 6.2 | |
| cis-1,3-Dichloropropene | 6.1 | 6.4 | 4.9 | 7.3 | |
| trans-1,3-Dichloropropene | 4.1 | 4.2 | 3.3 | 4.9 | |
| 1,1,2-Trichloroethane | 4.8 | 4.8 | 3.9 | 5.8 | |
| Tetrachloroethene | 5.1 | 5.2 | 4.1 | 6.2 | |
| Dibromochloromethane | 5.1 | 5.2 | 4.1 | 6.1 | |
| Chlorobenzene | 4.9 | 4.9 | 3.9 | 5.9 | |
| 1,1,1,2-Tetrachloroethane | 5.1 | 5.0 | 4.1 | 6.1 | |
| Bromoform | 6.8 | 6.6 | 5.4 | 8.2 | |
| 1,1,2,2-Tetrachloroethane | 5.2 | 5.0 | 4.2 | 6.2 | |
| 1,2,3-Trichloropropane | 5.3 | 5.1 | 4.2 | 6.3 | |
| o-Chlorotoluene | 5.0 | 5.0 | 4.0 | 6.0 | |
| p-Chlorotoluene | 4.9 | 4.8 | 3.9 | 5.8 | |
| m-Dichlorobenzene | 5.4 | 5.6 | 4.3 | 6.4 | |
| o-Dichlorobenzene | 5.6 | 5.6 | 4.5 | 6.8 | |
| Toluene | 5.3 | 5.3 | 4.3 | 6.4 | |
| Ethylbenzene | 5.3 | 5.3 | 4.3 | 6.4 | |
| m-Xylene | 5.1 | 5.0 | 4.1 | 6.1 | |
| Styrene | 5.4 | 5.2 | 4.3 | 6.4 | |

Reference for LLI #'s 1868435, 1868448-50

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 105 meter Restek RTx 502.2 capillary column; only m-xylene is used for the check standard solution.

o-Xylene and styrene coelute on the 105 meter Restek RTx 502.2 capillary column; only styrene is used for the check standard solution.



AR303840

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Quality Control Summary

Continuing Calibration
Volatiles by GC

Calibration Date.....: 09/11/92

Batch Number: 92268/A13

Instrument Identification..: 4177

Inj #..: 443

Continuing Calibration Date: 09/24/92

| Compound | Reference Concentration | Continuing Calib Result | Acceptance Range 80%- | 120% | Out of Range |
|---|---|---|---|---|---|
| Vinyl chloride | 10.0 | 9.5 | 8.0 | 12.0 | |
| 1,1-Dichloroethene | 4.9 | 5.1 | 3.9 | 5.8 | |
| 1,1,1-Trichloroethane | 5.1 | 5.2 | 4.1 | 6.1 | |
| Carbon tetrachloride | 4.9 | 4.9 | 3.9 | 5.9 | |
| 1,2-Dichloroethane | 5.3 | 5.4 | 4.2 | 6.4 | |
| Trichloroethene | 4.8 | 4.9 | 3.8 | 5.8 | |
| p-Dichlorobenzene | 5.3 | 5.3 | 4.2 | 6.4 | |
| Benzene | 5.0 | 5.1 | 4.0 | 6.0 | |

Reference for LLI #'s 1868435, 1868448-50



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AR303841

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Quality Control Summary

Continuing Calibration
Volatiles by GC

Calibration Date.....: 09/11/92 Batch Number: 92268/A13

Instrument Identification..: 4177 Inj #..: 464

Continuing Calibration Date: 09/25/92

| Compound | Reference Concentration | Continuing Calib Result | Acceptance Range 80%- | 120% | Out of Range |
|---|---|---|---|---|---|
| Chloromethane | 10.0 | 9.9 | 8.0 | 12.0 | |
| Bromomethane | 10.0 | 10.8 | 8.0 | 12.0 | |
| Chloroethane | 10.0 | 10.5 | 8.0 | 12.0 | |
| Methylene chloride | 4.8 | 4.9 | 3.9 | 5.8 | |
| trans-1,2-Dichloroethene | 4.9 | 5.1 | 3.9 | 5.9 | |
| 1,1-Dichloroethane | 5.0 | 5.3 | 4.0 | 6.0 | |
| cis-1,2-Dichloroethene | 5.0 | 5.5 | 4.0 | 6.0 | |
| Chloroform | 5.1 | 5.6 | 4.1 | 6.1 | |
| 1,2-Dichloropropane | 5.0 | 5.6 | 4.0 | 5.9 | |
| Bromodichloromethane | 5.2 | 5.6 | 4.1 | 6.2 | |
| cis-1,3-Dichloropropene | 6.1 | 6.6 | 4.9 | 7.3 | |
| trans-1,3-Dichloropropene | 4.1 | 4.3 | 3.3 | 4.9 | |
| 1,1,2-Trichloroethane | 4.8 | 5.0 | 3.9 | 5.8 | |
| Tetrachloroethene | 5.1 | 5.3 | 4.1 | 6.2 | |
| Dibromochloromethane | 5.1 | 5.6 | 4.1 | 6.1 | |
| Chlorobenzene | 4.9 | 5.3 | 3.9 | 5.9 | |
| 1,1,1,2-Tetrachloroethane | 5.1 | 5.3 | 4.1 | 6.1 | |
| Bromoform | 6.8 | 7.1 | 5.4 | 8.2 | |
| 1,1,2,2-Tetrachloroethane | 5.2 | 5.3 | 4.2 | 6.2 | |
| 1,2,3-Trichloropropane | 5.3 | 5.5 | 4.2 | 6.3 | |
| o-Chlorotoluene | 5.0 | 5.2 | 4.0 | 6.0 | |
| p-Chlorotoluene | 4.9 | 4.9 | 3.9 | 5.8 | |
| m-Dichlorobenzene | 5.4 | 5.9 | 4.3 | 6.4 | |
| o-Dichlorobenzene | 5.6 | 5.9 | 4.5 | 6.8 | |
| Toluene | 5.3 | 5.2 | 4.3 | 6.4 | |
| Ethylbenzene | 5.3 | 5.2 | 4.3 | 6.4 | |
| m-Xylene | 5.1 | 4.7 | 4.1 | 6.1 | |
| Styrene | 5.4 | 5.0 | 4.3 | 6.4 | |

Reference for LLI #'s 1868436-42, 1868444-46

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 105 meter Restek RTx 502.2 capillary column; only m-xylene is used for the check standard solution.

o-Xylene and styrene coelute on the 105 meter Restek RTx 502.2 capillary column; only styrene is used for the check standard solution.





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Quality Control Summary

Continuing Calibration
Volatiles by GC

Calibration Date.....: 09/11/92

Batch Number: 92268/A13

Instrument Identification..: 4177

Inj #..: 464

Continuing Calibration Date: 09/25/92

| Compound | Reference Concentration | Continuing Calib Result | Acceptance Range 80%- | 120% | Out of Range |
|---|---|---|---|---|---|
| Vinyl chloride | 10.0 | 9.6 | 8.0 | 12.0 | |
| 1,1-Dichloroethene | 4.9 | 5.1 | 3.9 | 5.8 | |
| 1,1,1-Trichloroethane | 5.1 | 5.5 | 4.1 | 6.1 | |
| Carbon tetrachloride | 4.9 | 5.0 | 3.9 | 5.9 | |
| 1,2-Dichloroethane | 5.3 | 5.8 | 4.2 | 6.4 | |
| Trichloroethene | 4.8 | 5.1 | 3.8 | 5.8 | |
| p-Dichlorobenzene | 5.3 | 5.5 | 4.2 | 6.4 | |
| Benzene | 5.0 | 5.0 | 4.0 | 6.0 | |

Reference for LLI #'s 1868436-42, 1868444-46

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Quality Control Summary

Continuing Calibration
Volatiles by GC

Calibration Date.....: 09/11/92 Batch Number: 92268/A13

Instrument Identification..: 4177 Inj #..: 480

Continuing Calibration Date: 09/28/92

| Compound | Reference Concentration | Continuing Calib Result | Acceptance Range 80%- | 120% | Out of Range |
|---|---|---|---|---|---|
| Chloromethane | 10.0 | 9.1 | 8.0 | 12.0 | |
| Bromomethane | 10.0 | 9.8 | 8.0 | 12.0 | |
| Chloroethane | 10.0 | 9.6 | 8.0 | 12.0 | |
| Methylene chloride | 4.8 | 4.5 | 3.9 | 5.8 | |
| trans-1,2-Dichloroethene | 4.9 | 5.5 | 3.9 | 5.9 | |
| 1,1-Dichloroethane | 5.0 | 5.3 | 4.0 | 6.0 | |
| cis-1,2-Dichloroethene | 5.0 | 5.6 | 4.0 | 6.0 | |
| Chloroform | 5.1 | 5.5 | 4.1 | 6.1 | |
| 1,2-Dichloropropane | 5.0 | 5.5 | 4.0 | 5.9 | |
| Bromodichloromethane | 5.2 | 5.5 | 4.1 | 6.2 | |
| cis-1,3-Dichloropropene | 6.1 | 6.7 | 4.9 | 7.3 | |
| trans-1,3-Dichloropropene | 4.1 | 4.4 | 3.3 | 4.9 | |
| 1,1,2-Trichloroethane | 4.8 | 5.1 | 3.9 | 5.8 | |
| Tetrachloroethene | 5.1 | 5.8 | 4.1 | 6.2 | |
| Dibromochloromethane | 5.1 | 5.5 | 4.1 | 6.1 | |
| Chlorobenzene | 4.9 | 5.3 | 3.9 | 5.9 | |
| 1,1,1,2-Tetrachloroethane | 5.1 | 5.4 | 4.1 | 6.1 | |
| Bromoform | 6.8 | 7.3 | 5.4 | 8.2 | |
| 1,1,2,2-Tetrachloroethane | 5.2 | 5.5 | 4.2 | 6.2 | |
| 1,2,3-Trichloropropane | 5.3 | 5.7 | 4.2 | 6.3 | |
| o-Chlorotoluene | 5.0 | 5.5 | 4.0 | 6.0 | |
| p-Chlorotoluene | 4.9 | 5.1 | 3.9 | 5.8 | |
| m-Dichlorobenzene | 5.4 | 6.0 | 4.3 | 6.4 | |
| o-Dichlorobenzene | 5.6 | 6.0 | 4.5 | 6.8 | |
| Toluene | 5.3 | 5.8 | 4.3 | 6.4 | |
| Ethylbenzene | 5.3 | 5.8 | 4.3 | 6.4 | |
| m-Xylene | 5.1 | 5.3 | 4.1 | 6.1 | |
| Styrene | 5.4 | 5.5 | 4.3 | 6.4 | |

Reference for LLI #'s 1868443, 1868447

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 105 meter Restek RTx 502.2 capillary column; only m-xylene is used for the check standard solution.

o-Xylene and styrene coelute on the 105 meter Restek RTx 502.2 capillary column; only styrene is used for the check standard solution.



AR303844

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Quality Control Summary

Continuing Calibration
Volatiles by GC

Calibration Date.....: 09/11/92 Batch Number: 92268/A13

Instrument Identification..: 4177 Inj #..: 480

Continuing Calibration Date: 09/28/92

| Compound | Reference Concentration | Continuing Calib Result | Acceptance Range 80%- | 120% | Out of Range |
|---|---|---|---|---|---|
| Vinyl chloride | 10.0 | 8.8 | 8.0 | 12.0 | |
| 1,1-Dichloroethene | 4.9 | 5.5 | 3.9 | 5.8 | |
| 1,1,1-Trichloroethane | 5.1 | 5.7 | 4.1 | 6.1 | |
| Carbon tetrachloride | 4.9 | 5.3 | 3.9 | 5.9 | |
| 1,2-Dichloroethane | 5.3 | 5.8 | 4.2 | 6.4 | |
| Trichloroethene | 4.8 | 5.4 | 3.8 | 5.8 | |
| p-Dichlorobenzene | 5.3 | 5.7 | 4.2 | 6.4 | |
| Benzene | 5.0 | 5.5 | 4.0 | 6.0 | |

Reference for LLI #'s 1868443, 1868447



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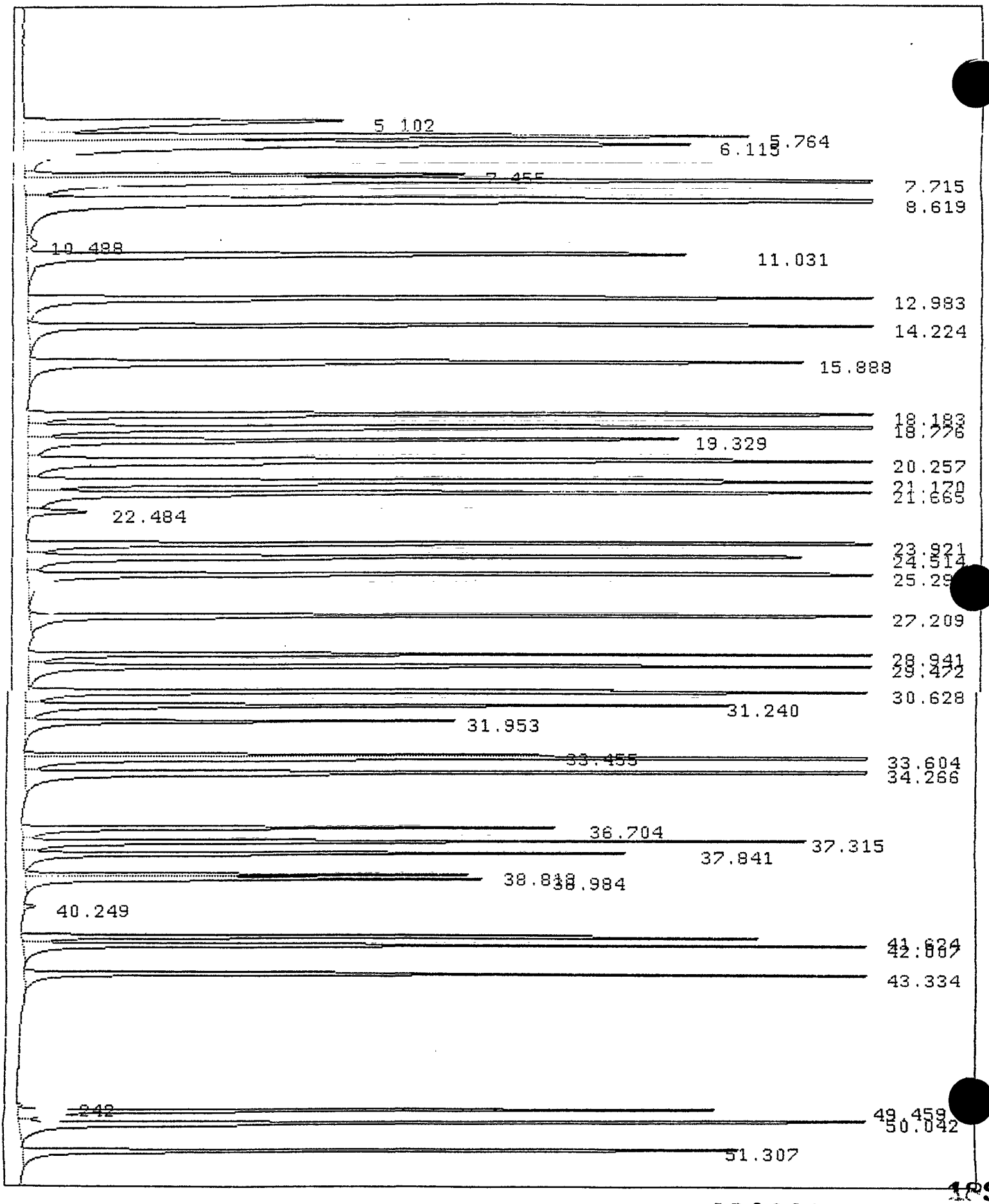
AR303845




SAMPLE NAME: CHKSTD 10-200+10
Resultfile: /CAP/RESULT/H13_268_443.RES

AR303846

Sample Name: CHKSTD 10-200+10
Batch # 92268/A13 Injected on Thu Sep 24, 1992 4:08:22 am

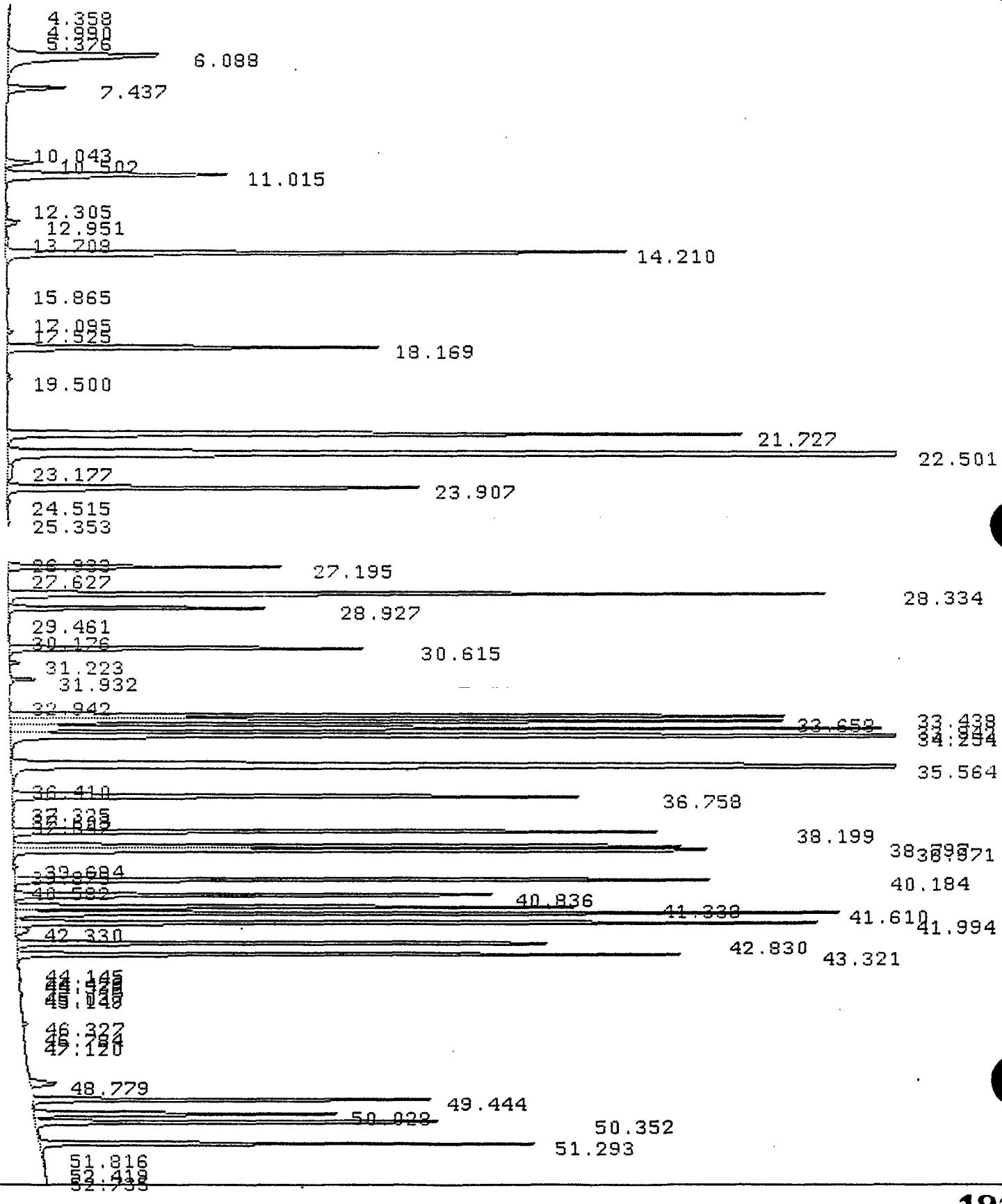
Instrument: HP5890#13HALL Employee #768
Calculation: ExternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/H13_268_443.RES
Methodfile: /CAP/METHOD/H13_268N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
105m x 0.53mm ID fused silica RTX-502.2 column - Hall Detector
HP 3350A LAS v. D.00.01 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 | 5.10 | 5.10 | 3812 | 67129 | BV | 9.75 | DICHLORODIFLUOROMETHANE |
| 2 | 5.76 | 5.75 | 8712 | 108893 | VV | 9.10 | CHLOROMETHANE |
| 3 | 6.11 | 6.10 | 7855 | 142641 | VV | 8.96 | VINYL CHLORIDE |
| 4 | 7.46 | 7.46 | 5462 | 53207 | VV | 10.51 | BROMOMETHANE |
| 5 | 7.71 | 7.72 | 11307 | 152375 | VV | 9.82 | CHLOROETHANE |
| 6 | 8.62 | 8.62 | 11204 | 195625 | VV | 9.93 | TRICHLOROFLUOROMETHANE |
| 8 | 11.03 | #11.03 | 8265 | 98119 | VB | 5.12 | 1,1-DICHLOROETHENE |
| 9 | 12.98 | #12.98 | 13226 | 122217 | BV | 4.20 | METHYLENE CHLORIDE |
| 10 | 14.22 | #14.22 | 11231 | 102999 | VV | 5.08 | TRANS-1,2-DICHLOROETHENE |
| 11 | 15.89 | #15.89 | 9587 | 104490 | VB | 4.92 | 1,1-DICHLOROETHANE |
| 12 | 18.18 | #18.18 | 11979 | 102796 | BV | 5.04 | CIS-1,2-DICHLOROETHENE |
| [illegible] | 18.78 | #18.78 | 15135 | 142294 | VV | 5.04 | CHLOROFORM |
| [illegible] | 19.33 | #19.33 | 8988 | 79722 | VV | 4.83 | BROMOCHLOROMETHANE |
| 15 | 20.26 | #20.26 | 10383 | 124928 | VV | 5.18 | 1,1,1-TRICHLOROETHANE |
| 16 | 21.17 | #21.17 | 11609 | 129688 | VV | 4.93 | CARBON TETRACHLORIDE |
| 17 | 21.67 | #21.67 | 13777 | 115917 | VV | 5.43 | 1,2-DICHLOROETHANE |
| 19 | 23.92 | #23.92 | 13966 | 110902 | BV | 4.94 | TRICHLOROETHENE |
| 20 | 24.51 | #24.51 | 10762 | 98073 | VV | 5.18 | 1,2-DICHLOROPROPANE |
| 21 | 25.30 | #25.30 | 11971 | 103345 | VB | 5.23 | BROMODICHLOROMETHANE |
| 22 | 27.21 | #27.21 | 15048 | 108551 | BV | 6.38 | CIS-1,3-DICHLOROPROPENE |
| 23 | 28.94 | #28.94 | 10743 | 70922 | BV | 4.15 | TRANS-1,3-DICHLOROPROPENE |
| 24 | 29.47 | #29.47 | 13162 | 101064 | VV | 4.79 | 1,1,2-TRICHLOROETHANE |
| 25 | 30.63 | #30.63 | 16228 | 125217 | VV | 5.22 | TETRACHLOROETHENE |
| 26 | 31.24 | #31.24 | 8984 | 71331 | VV | 5.23 | DIBROMOCHLOROMETHANE |
| 27 | 31.95 | #31.95 | 5426 | 44022 | VB | 5.03 | ETHYLENE DIBROMIDE |
| 28 | 33.46 | 33.46 | 6325 | 35708 | BV | 4.90 | CHLOROBENZENE |
| 29 | 33.60 | #33.60 | 16140 | 136499 | VV | 5.01 | 1,1,1,2-TETRACHLOROETHANE |
| 30 | 34.27 | #34.27 | 20087 | 145136 | VB | 110.09 | SURR-1CL2FBENZENE |
| 31 | 36.70 | #36.70 | 6780 | 51108 | BV | 6.63 | BROMOFORM |
| 32 | 37.32 | #37.32 | 9812 | 72197 | VV | 4.99 | 1,1,2,2-TETRACHLOROETHANE |
| 33 | 37.84 | #37.84 | 7801 | 58950 | VV | 5.13 | 1,2,3-TRICHLOROPROPANE |
| 34 | 38.81 | #38.81 | 5625 | 36368 | VV | 5.03 | O-CHLOROTOLUENE |
| 35 | 38.98 | #38.98 | 6023 | 44423 | VB | 4.75 | P-CHLOROTOLUENE |
| 37 | 41.62 | #41.62 | 10616 | 69626 | BV | 5.64 | M-DICHLOROBENZENE |
| 38 | 42.01 | #42.01 | 11430 | 77134 | VB | 5.29 | P-DICHLOROBENZENE |
| 39 | 43.33 | #43.33 | 10721 | 74147 | BB | 5.58 | O-DICHLOROBENZENE |
| 41 | 49.46 | 49.48 | 9703 | 65303 | VV | 4.93 | 1,2,4-TRICHLOROBENZENE |
| [illegible] | 50.04 | 50.07 | 12574 | 100491 | VB | 4.91 | HEXACHLOROBUTADIENE |
| [illegible] | 51.31 | 51.34 | 10445 | 71442 | BB | 6.52 | 1,2,3-TRICHLOROBENZENE |

Reported on Thu Sep 24, 1992 5:07:36 am
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT




SAMPLE NAME: CHKSTD 10-200+10
Resultfile: /CAP/RESULT/813 268 442 PRC

AR303848

Sample Name: CHKSTD 10-200+10
Batch # 92268/A13 Injected on Thu Sep 24, 1992 4:08:22 am

Instrument: HP5890#13PID Employee #768
lation: InternalSTD Quantitation: HeightUnits
ɛfile: /CAP/RESULT/P13_268_443.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

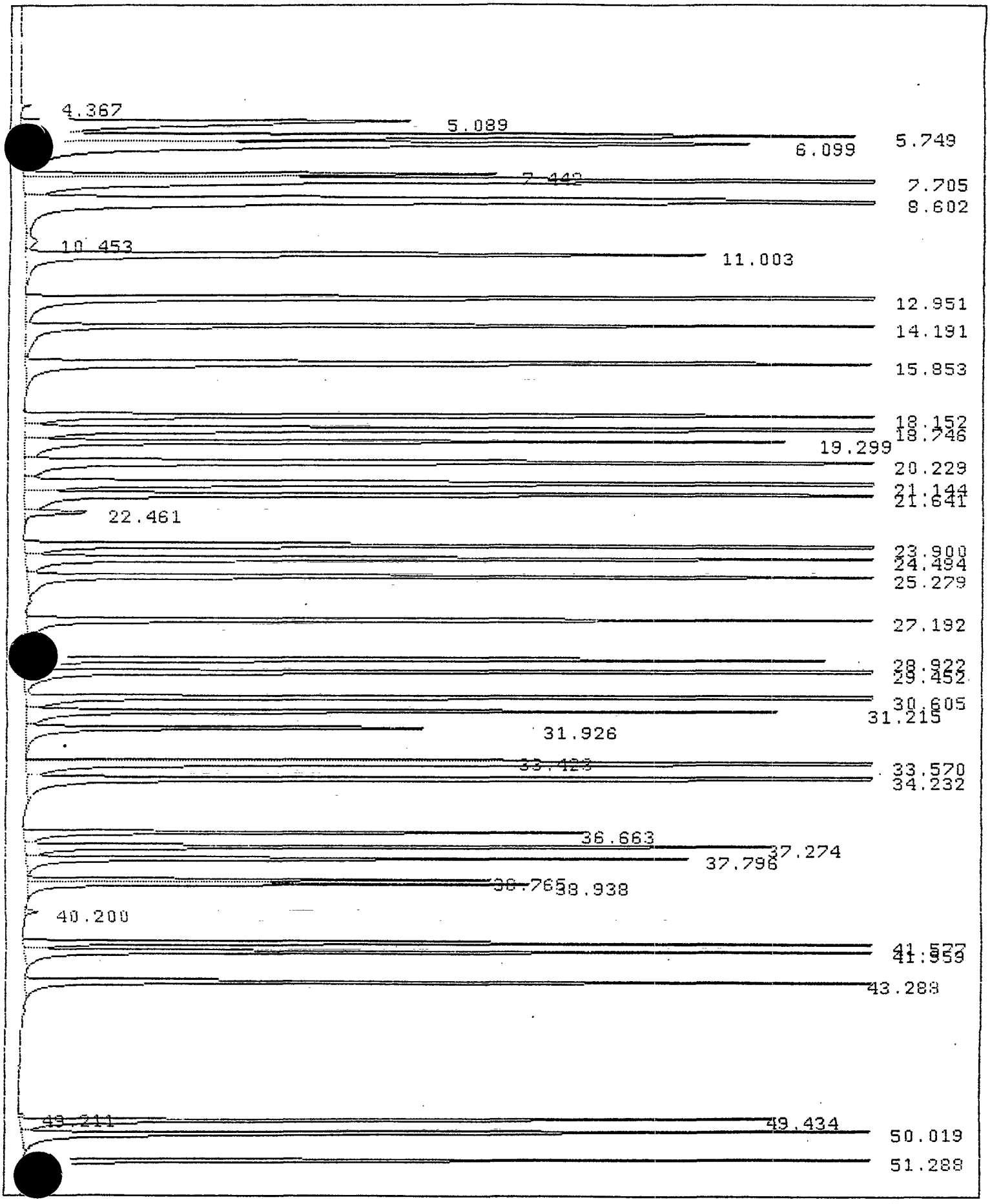
Integration Parameters: Run Time - 53.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .30000 Dilution Factor - 1.00

| 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 |
|---|---|---|---|---|---|---|---|
| 4 | 6.09 | 6.09 | 4620 | 79916 | VV | 9.52 | VINYL CHLORIDE |
| 8 | 11.02 | 11.03 | 7102 | 76643 | VV | 5.10 | 1,1-DICHLOROETHENE |
| 12 | 14.21 | #14.21 | 21060 | 174028 | VV | 5.07 | TRANS-1,2-DICHLOROETHENE |
| 16 | 18.17 | #18.17 | 11873 | 95166 | VV | 4.98 | CIS-1,2-DICHLOROETHENE |
| 18 | 21.73 | #21.73 | 23518 | 197804 | VV | 5.08 | BENZENE |
| 19 | 22.50 | #22.50 | 60372 | 484402 | VV | 100.36 | SURR-FBENZENE |
| 21 | 23.91 | #23.91 | 14431 | 106991 | VV | 4.76 | TRICHLOROETHENE |
| 25 | 27.20 | #27.20 | 8972 | 58299 | VV | 6.06 | CIS-1,3-DICHLOROPROPENE |
| 27 | 28.33 | #28.33 | 27035 | 192421 | PV | 5.30 | TOLUENE |
| [illegible] | 28.93 | #28.93 | 9314 | 55929 | VV | 4.01 | TRANS-1,3-DICHLOROPROPENE |
| [illegible] | 30.62 | #30.62 | 12115 | 85026 | PV | 5.10 | TETRACHLOROETHENE |
| 35 | 33.44 | #33.44 | 29492 | 182579 | BV | 4.78 | CHLOROBENZENE |
| 36 | 33.66 | #33.66 | 26339 | 177200 | VV | 5.29 | ETHYLBENZENE |
| 37 | 33.94 | #33.94 | 28427 | 190926 | VV | 4.96 | M-XYLENE |
| 38 | 34.25 | #34.25 | 69368 | 445929 | VV | | ISTD-1CL2FBENZENE |
| 39 | 35.56 | #35.56 | 37960 | 383417 | VV | 5.17 | STYRENE |
| 41 | 36.76 | #36.76 | 19328 | 140087 | VV | 5.01 | CUMENE |
| 45 | 38.20 | #38.20 | 23082 | 151226 | PV | 4.50 | N-PROPYLBENZENE |
| 46 | 38.80 | #38.80 | 25707 | 161045 | VV | 4.89 | O-CHLOROTOLUENE |
| 47 | 38.97 | #38.97 | 28528 | 172104 | VV | 4.64 | P-CHLOROTOLUENE |
| 50 | 40.18 | #40.18 | 25921 | 165956 | VV | 5.07 | 1,2,4-TRIMETHYLBENZENE |
| 52 | 40.84 | #40.84 | 17448 | 123956 | VV | 4.80 | SEC-BUTYLBENZENE |
| 53 | 41.34 | #41.34 | 19116 | 125529 | VV | 4.96 | P-ISOPROPYLTOLUENE |
| 54 | 41.61 | #41.61 | 29802 | 178932 | VV | 5.46 | M-DICHLOROBENZENE |
| 55 | 41.99 | #41.99 | 30434 | 174182 | VV | 5.15 | P-DICHLOROBENZENE |
| 57 | 42.83 | #42.83 | 20344 | 132936 | VV | 4.97 | N-BUTYLBENZENE |
| 58 | 43.32 | #43.32 | 24054 | 146509 | VV | 5.40 | O-DICHLOROBENZENE |
| 68 | 49.44 | 49.47 | 15028 | 89606 | PV | 4.74 | 1,2,4-TRICHLOROBENZENE |
| 69 | 50.03 | 50.05 | 9720 | 67946 | VV | 4.76 | HEXACHLOROBUTADIENE |
| 70 | 50.35 | 50.38 | 16244 | 96935 | VV | 4.59 | NAPHTHALENE |
| 71 | 51.29 | 51.32 | 16449 | 101951 | VV | 6.22 | 1,2,3-TRICHLOROBENZENE |

Internal Standard Range: 51808 - 77712 (Midpoint - 64760)

Using initial calibration files.
Reported on Thu Sep 24, 1992 5:10:08 am
[illegible]rt Formatfile: /DATA/FORMAT/CAPPID.FMT




SAMPLE NAME: CHKSTD 10-200+10
Resultfile: /CAP/RESULT/H13_268_464.RES
Plot Fields: 3000 - 5500 Instrument - HP5890#13HALL



AR303850

Sample Name: CHKSTD 10-200+10
Batch # 92268/A13 Injected on Fri Sep 25, 1992 12:03:15 pm

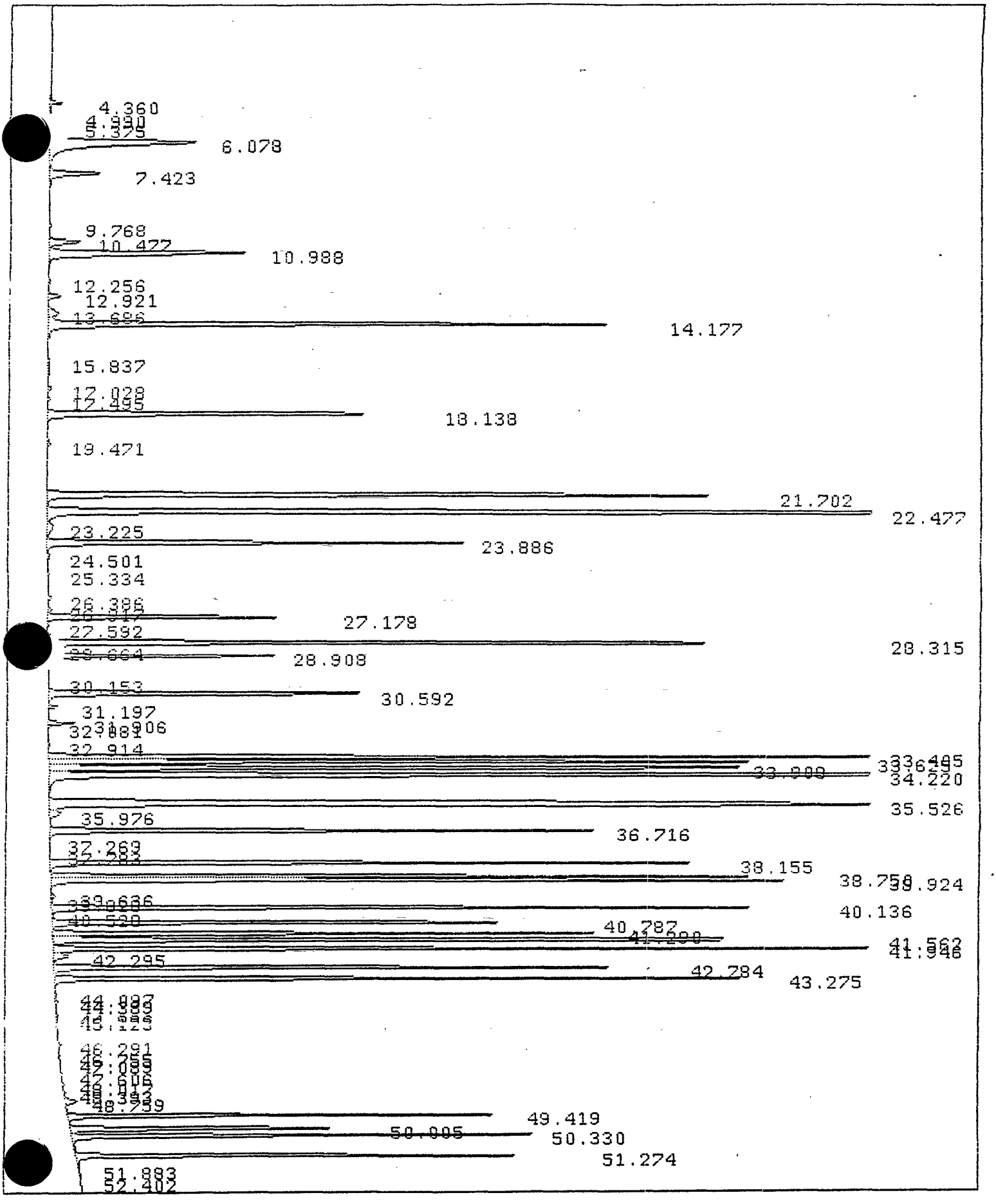
Instrument: HP5890#13HALL Employee #702
Calculation: ExternalSTD Quantitation: HeightUnits
Res' 'file: /CAP/RESULT/H13_268_464.RES
Met. ıfile: /CAP/METHOD/H13_268N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
105m x 0.53mm ID fused silica RTX-502.2 column - Hall Detector
HP 3350A LAS v. D.00.01 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 |
|---|---|---|---|---|---|---|---|
| 2 | 5.09 | 5.08 | 4565 | 79586 | BV | 11.49 | DICHLORODIFLUOROMETHANE |
| 3 | 5.75 | 5.74 | 9869 | 122379 | VV | 9.90 | CHLOROMETHANE |
| 4 | 6.10 | 6.09 | 8637 | 150323 | VV | 9.56 | VINYL CHLORIDE |
| 5 | 7.44 | 7.44 | 5638 | 55003 | VV | 10.82 | BROMOMETHANE |
| 6 | 7.70 | 7.70 | 12122 | 159425 | VV | 10.52 | CHLOROETHANE |
| 7 | 8.60 | 8.60 | 11564 | 195684 | VV | 10.24 | TRICHLOROFLUOROMETHANE |
| 9 | 11.00 | #11.00 | 8189 | 96108 | VB | 5.07 | 1,1-DICHLOROETHENE |
| 10 | 12.95 | #12.95 | 15081 | 137841 | BV | 4.87 | METHYLENE CHLORIDE |
| 11 | 14.19 | #14.19 | 11204 | 103043 | VV | 5.07 | TRANS-1,2-DICHLOROETHENE |
| 12 | 15.85 | #15.85 | 10388 | 113731 | VB | 5.34 | 1,1-DICHLOROETHANE |
| 13 | 18.15 | #18.15 | 13001 | 111811 | BV | 5.50 | CIS-1,2-DICHLOROETHENE |
| 14 | 18.75 | #18.75 | 16488 | 155230 | VV | 5.55 | CHLOROFORM |
| 15 | 19.30 | #19.30 | 9309 | 82475 | VV | 4.99 | BROMOCHLOROMETHANE |
| 16 | 0.23 | #20.23 | 10929 | 130625 | VV | 5.48 | 1,1,1-TRICHLOROETHANE |
| 17 | 21.14 | #21.14 | 11792 | 132124 | VV | 5.00 | CARBON TETRACHLORIDE |
| 18 | 21.64 | #21.64 | 14646 | 122462 | VV | 5.80 | 1,2-DICHLOROETHANE |
| 20 | 23.90 | #23.90 | 14421 | 114232 | BV | 5.11 | TRICHLOROETHENE |
| 21 | 24.49 | #24.49 | 11653 | 103977 | VV | 5.62 | 1,2-DICHLOROPROPANE |
| 22 | 25.28 | #25.28 | 12813 | 107124 | VV | 5.60 | BROMODICHLOROMETHANE |
| 23 | 27.19 | #27.19 | 15453 | 111170 | BV | 6.55 | CIS-1,3-DICHLOROPROPENE |
| 24 | 28.92 | #28.92 | 11089 | 72892 | BV | 4.29 | TRANS-1,3-DICHLOROPROPENE |
| 25 | 29.45 | #29.45 | 13840 | 105403 | VV | 5.03 | 1,1,2-TRICHLOROETHANE |
| 26 | 30.60 | #30.60 | 16489 | 127195 | VV | 5.31 | TETRACHLOROETHENE |
| 27 | 31.22 | #31.22 | 9671 | 75921 | VV | 5.63 | DIBROMOCHLOROMETHANE |
| 28 | 31.93 | #31.93 | 5757 | 46126 | VB | 5.33 | ETHYLENE DIBROMIDE |
| 29 | 33.42 | 33.43 | 6904 | 39166 | BV | 5.34 | CHLOROBENZENE |
| 30 | 33.57 | #33.57 | 17033 | 142413 | VV | 5.31 | 1,1,1,2-TETRACHLOROETHANE |
| 31 | 34.23 | #34.23 | 21715 | 155524 | VB | 119.01 | SURR-1CL2FBENZENE |
| 32 | 36.66 | #36.66 | 7302 | 53984 | BV | 7.13 | BROMOFORM |
| 33 | 37.27 | #37.27 | 10483 | 76089 | VV | 5.31 | 1,1,2,2-TETRACHLOROETHANE |
| 34 | 37.80 | #37.80 | 8325 | 61365 | VB | 5.51 | 1,2,3-TRICHLOROPROPANE |
| 35 | 38.76 | #38.76 | 5811 | 37348 | BV | 5.20 | O-CHLOROTOLUENE |
| 36 | 38.94 | #38.94 | 6258 | 45517 | VB | 4.92 | P-CHLOROTOLUENE |
| 38 | 41.58 | #41.58 | 11055 | 71981 | BV | 5.88 | M-DICHLOROBENZENE |
| 39 | 41.96 | #41.96 | 11908 | 79640 | VB | 5.51 | P-DICHLOROBENZENE |
| 40 | 43.29 | #43.29 | 11262 | 77089 | BB | 5.87 | O-DICHLOROBENZENE |
| 42 | 49.43 | 49.48 | 10258 | 68808 | VV | 5.22 | 1,2,4-TRICHLOROBENZENE |
| 43 | 50.02 | 50.07 | 13039 | 103132 | VB | 5.09 | HEXACHLOROBUTADIENE |
| 44 | 51.29 | 51.34 | 11022 | 74975 | BB | 6.92 | 1,2,3-TRICHLOROBENZENE |

Reported on Fri Sep 25, 1992 12:59:35 pm
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT




SAMPLE NAME: CHKSTD 10-200+10
Resultfile: /CAP/RESULT/P13_268_464.RES
Plot Fields: 3000 - 10000 Instrument - HP5890#13PID



AR303852

Sample Name: CHKSTD 10-200+10
Batch # 92268/A13 Injected on Fri Sep 25, 1992 12:03:15 pm

Instrument: HP5890#13PID Employee #702
Calculation: InternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/P13_268_464.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

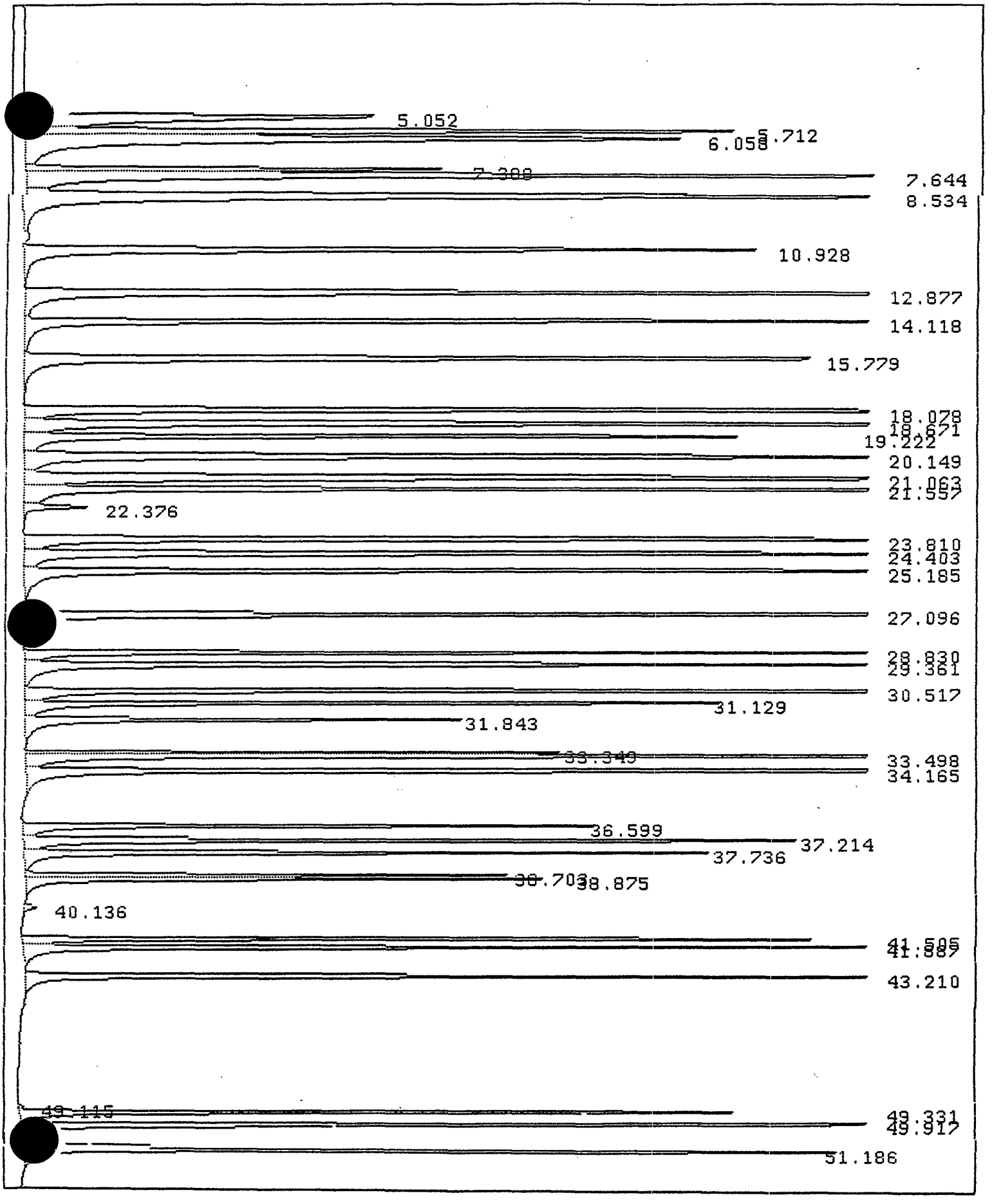
Integration Parameters: Run Time - 53.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .30000 Dilution Factor - 1.00

| 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 |
|---|---|---|---|---|---|---|---|
| 4 | 6.08 | 6.08 | 4850 | 85756 | VV | 9.65 | VINYL CHLORIDE |
| 8 | 10.99 | 11.00 | 6668 | 71929 | VV | 4.68 | 1,1-DICHLOROETHENE |
| 12 | 14.18 | #14.18 | 19741 | 164214 | VV | 4.65 | TRANS-1,2-DICHLOROETHENE |
| 16 | 18.14 | #18.14 | 12104 | 98014 | VV | 4.97 | CIS-1,2-DICHLOROETHENE |
| 18 | 21.70 | #21.70 | 23527 | 197986 | VV | 4.97 | BENZENE |
| 19 | 22.48 | #22.48 | 61891 | 498628 | VV | 100.77 | SURR-FBENZENE |
| 21 | 23.89 | #23.89 | 14454 | 107120 | VV | 4.67 | TRICHLOROETHENE |
| 26 | 27.18 | #27.18 | 8860 | 57401 | VV | 5.86 | CIS-1,3-DICHLOROPROPENE |
| 28 | 28.32 | #28.32 | 27001 | 191521 | VV | 5.18 | TOLUENE |
| 30 | 28.91 | #28.91 | 9249 | 55598 | VV | 3.90 | TRANS-1,3-DICHLOROPROPENE |
| 32 | 30.59 | #30.59 | 11726 | 82704 | VV | 4.83 | TETRACHLOROETHENE |
| 37 | 33.41 | #33.41 | 30248 | 187366 | BV | 4.80 | CHLOROBENZENE |
| [illegible] | 33.63 | #33.63 | 28639 | 177817 | VV | 5.24 | ETHYLBENZENE |
| 39 | 33.91 | #33.91 | 27618 | 184947 | VV | 4.72 | M-XYLENE |
| 40 | 34.22 | #34.22 | 70828 | 452315 | VV | | ISTD-1CL2FBENZENE |
| 41 | 35.53 | #35.53 | 37392 | 372517 | VV | 4.99 | STYRENE |
| 43 | 36.72 | #36.72 | 18956 | 136768 | VV | 4.81 | CUMENE |
| 46 | 38.15 | #38.15 | 22560 | 147706 | PV | 4.31 | N-PROPYLBENZENE |
| 47 | 38.75 | #38.75 | 25456 | 159187 | VV | 4.74 | O-CHLOROTOLUENE |
| 48 | 38.92 | #38.92 | 28305 | 170541 | VV | 4.51 | P-CHLOROTOLUENE |
| 51 | 40.14 | #40.14 | 25532 | 164234 | VV | 4.89 | 1,2,4-TRIMETHYLBENZENE |
| 53 | 40.79 | #40.79 | 17189 | 122031 | VV | 4.63 | SEC-BUTYLBENZENE |
| 54 | 41.29 | #41.29 | 18866 | 123914 | VV | 4.80 | P-ISOPROPYLTOLUENE |
| 55 | 41.56 | #41.56 | 29905 | 179244 | VV | 5.37 | M-DICHLOROBENZENE |
| 56 | 41.95 | #41.95 | 30603 | 174708 | VV | 5.07 | P-DICHLOROBENZENE |
| 58 | 42.78 | #42.78 | 20644 | 131535 | VV | 4.80 | N-BUTYLBENZENE |
| 59 | 43.27 | #43.27 | 24373 | 148592 | VV | 5.36 | O-DICHLOROBENZENE |
| 71 | 49.42 | 49.47 | 15271 | 91341 | PV | 4.72 | 1,2,4-TRICHLOROBENZENE |
| 72 | 50.01 | 50.05 | 9757 | 67932 | VV | 4.68 | HEXACHLOROBUTADIENE |
| 73 | 50.33 | 50.38 | 16494 | 98018 | VV | 4.57 | NAPHTHALENE |
| 74 | 51.27 | 51.32 | 16724 | 102961 | VV | 6.19 | 1,2,3-TRICHLOROBENZENE |

Internal Standard Range: 51808 - 77712 (Midpoint - 64760)

Using initial calibration files.
Reported on Fri Sep 25, 1992 1:02:20 pm
Report Formatfile: /DATA/FORMAT/CAPPID.FMT




SAMPLE NAME: CHKSTD 10-200 + 10
Resultfile: /CAP/RESULT/H13_268_480.RES
*Plot Fields: 3000 - 5500* Instrument - HP5890#13HALL

AR303854

Sample Name: CHKSTD 10-200 + 10
Batch # 92268/A13 Injected on Mon Sep 28, 1992 9:33:32 am

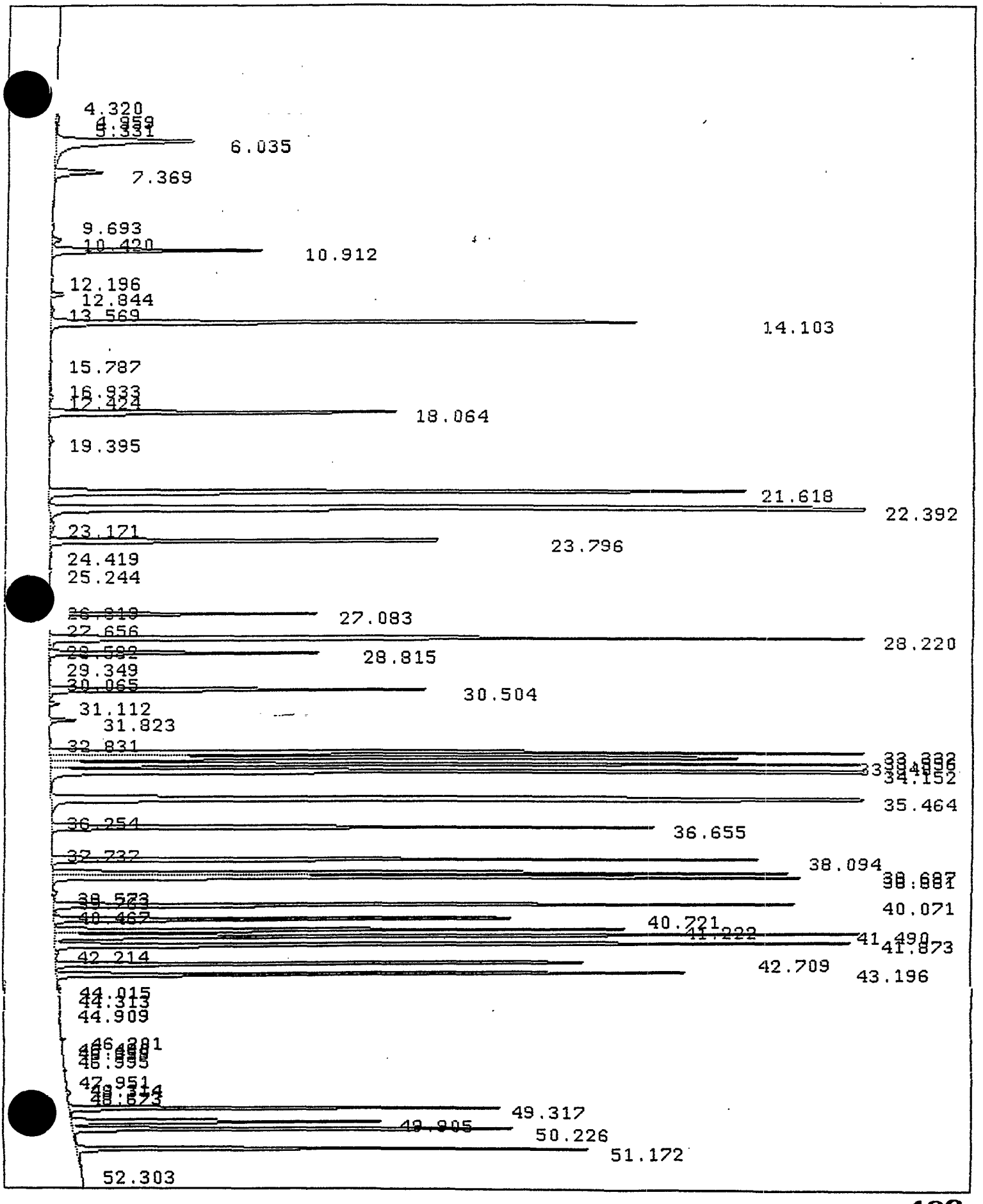
Instrument: HP5890#13HALL Employee #378
Calculation: ExternalSTD Quantitation: HeightUnits
Re tfile: /CAP/RESULT/H13_268_480.RES
Me..dfile: /CAP/METHOD/H13_268N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
105m x 0.53mm ID fused silica RTX-502.2 column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT 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 | 5.05 | 5.05 | 4280 | 75085 | BV | 10.78 | DICHLORODIFLUOROMETHANE |
| 2 | 5.71 | 5.70 | 8693 | 108423 | VV | 9.09 | CHLOROMETHANE |
| 3 | 6.06 | 6.05 | 7677 | 140158 | VV | 8.83 | VINYL CHLORIDE |
| 4 | 7.39 | 7.39 | 4995 | 48762 | VV | 9.78 | BROMOMETHANE |
| 5 | 7.64 | 7.64 | 10886 | 143416 | VV | 9.56 | CHLOROETHANE |
| 6 | 8.53 | 8.54 | 10580 | 183572 | VV | 9.54 | TRICHLOROFLUOROMETHANE |
| 7 | 10.93 | #10.93 | 8746 | 103821 | VB | 5.45 | 1,1-DICHLOROETHENE |
| 8 | 12.88 | #12.88 | 13931 | 128985 | BV | 4.46 | METHYLENE CHLORIDE |
| 9 | 14.12 | #14.12 | 12135 | 111078 | VV | 5.53 | TRANS-1,2-DICHLOROETHENE |
| 10 | 15.78 | #15.78 | 10240 | 114313 | VB | 5.25 | 1,1-DICHLOROETHANE |
| 11 | 18.08 | #18.08 | 13102 | 112596 | BV | 5.55 | CIS-1,2-DICHLOROETHENE |
| 12 | 18.67 | #18.67 | 16424 | 154229 | VV | 5.53 | CHLOROFORM |
| 13 | 19.22 | #19.22 | 9523 | 84545 | VV | 5.11 | BROMOCHLOROMETHANE |
| 1 | 20.15 | #20.15 | 11286 | 136049 | VV | 5.68 | 1,1,1-TRICHLOROETHANE |
| 15 | 21.06 | #21.06 | 12551 | 141025 | VV | 5.32 | CARBON TETRACHLORIDE |
| 16 | 21.56 | #21.56 | 14580 | 123563 | VV | 5.77 | 1,2-DICHLOROETHANE |
| 18 | 23.81 | #23.81 | 15073 | 120469 | BV | 5.35 | TRICHLOROETHENE |
| 19 | 24.40 | #24.40 | 11396 | 103872 | VV | 5.50 | 1,2-DICHLOROPROPANE |
| 20 | 25.19 | #25.19 | 12476 | 108691 | VV | 5.45 | BROMODICHLOROMETHANE |
| 21 | 27.10 | #27.10 | 15693 | 113518 | PV | 6.66 | CIS-1,3-DICHLOROPROPENE |
| 22 | 28.83 | #28.83 | 11241 | 74877 | BV | 4.35 | TRANS-1,3-DICHLOROPROPENE |
| 23 | 29.36 | #29.36 | 13915 | 107832 | VV | 5.06 | 1,1,2-TRICHLOROETHANE |
| 24 | 30.52 | #30.52 | 17817 | 137673 | VV | 5.78 | TETRACHLOROETHENE |
| 25 | 31.13 | #31.13 | 9431 | 75613 | VV | 5.49 | DIBROMOCHLOROMETHANE |
| 26 | 31.84 | #31.84 | 5724 | 46779 | VB | 5.30 | ETHYLENE DIBROMIDE |
| 27 | 33.35 | 33.36 | 6869 | 39160 | BV | 5.31 | CHLOROBENZENE |
| 28 | 33.50 | #33.50 | 17295 | 146808 | VV | 5.40 | 1,1,1,2-TETRACHLOROETHANE |
| 29 | 34.16 | #34.16 | 20371 | 148086 | VB | 111.65 | SURR-1CL2FBENZENE |
| 30 | 36.60 | #36.60 | 7465 | 55993 | BV | 7.29 | BROMOFORM |
| 31 | 37.21 | #37.21 | 10786 | 79607 | VV | 5.47 | 1,1,2,2-TETRACHLOROETHANE |
| 32 | 37.74 | #37.74 | 8551 | 64717 | VV | 5.67 | 1,2,3-TRICHLOROPROPANE |
| 33 | 38.70 | #38.70 | 6134 | 39437 | VV | 5.49 | O-CHLOROTOLUENE |
| 34 | 38.88 | #38.88 | 6490 | 48258 | VB | 5.10 | P-CHLOROTOLUENE |
| 36 | 41.51 | #41.51 | 11362 | 74178 | BV | 6.04 | M-DICHLOROBENZENE |
| 37 | 41.89 | #41.89 | 12259 | 82363 | VB | 5.68 | P-DICHLOROBENZENE |
| 38 | 43.21 | #43.21 | 11485 | 78732 | BB | 5.99 | O-DICHLOROBENZENE |
| 40 | 49.33 | 49.48 | 10636 | 70991 | VV | 5.42 | 1,2,4-TRICHLOROBENZENE |
| 41 | 49.92 | 50.07 | 13885 | 109482 | VB | 5.43 | HEXACHLOROBUTADIENE |
| 4 | 51.19 | 51.34 | 11770 | 79802 | BB | 7.43 | 1,2,3-TRICHLOROBENZENE |

Reported on Mon Sep 28, 1992 10:40:57 am
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT




SAMPLE NAME: CHKSTD 10-200 + 10
Resultfile: /CAP/RESULT/P13_268_480.RES

AR303856

Sample Name: CHKSTD 10-200 + 10
Batch # 92268/A13 Injected on Mon Sep 28, 1992 9:33:32 am

Instrument: HP5890#13PID Employee #378
Calculation: InternalSTD Quantitation: HeightUnits
Re tfile: /CAP/RESULT/P13_268_480.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 - 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 |
|---|---|---|---|---|---|---|---|
| 4 | 6.04 | 6.04 | 4682 | 83058 | VV | 9.56 | VINYL CHLORIDE |
| 8 | 10.91 | 10.95 | 7526 | 81103 | VV | 5.40 | 1,1-DICHLOROETHENE |
| 12 | 14.10 | #14.10 | 22341 | 184053 | VV | 5.37 | TRANS-1,2-DICHLOROETHENE |
| 16 | 18.06 | #18.06 | 12754 | 101862 | PV | 5.33 | CIS-1,2-DICHLOROETHENE |
| 18 | 21.62 | #21.62 | 25429 | 212845 | PV | 5.47 | BENZENE |
| 19 | 22.39 | #22.39 | 59511 | 480918 | VV | 98.55 | SURR-FBENZENE |
| 21 | 23.80 | #23.80 | 15749 | 116217 | VV | 5.17 | TRICHLOROETHENE |
| 25 | 27.08 | #27.08 | 9424 | 61065 | VV | 6.34 | CIS-1,3-DICHLOROPROPENE |
| 27 | 28.22 | #28.22 | 29520 | 208682 | VV | 5.77 | TOLUENE |
| 29 | 28.82 | #28.82 | 9922 | 59341 | VV | 4.26 | TRANS-1,3-DICHLOROPROPENE |
| 3[illegible] | 30.50 | #30.50 | 13269 | 93865 | VV | 5.57 | TETRACHLOROETHENE |
| 3[illegible] | 33.33 | #33.33 | 31797 | 198147 | BV | 5.13 | CHLOROBENZENE |
| 37 | 33.56 | #33.56 | 28764 | 192302 | VV | 5.76 | ETHYLBENZENE |
| 38 | 33.84 | #33.84 | 30491 | 203928 | VV | 5.31 | M-XYLENE |
| 39 | 34.15 | #34.15 | 69638 | 446535 | VV | | ISTD-1CL2FBENZENE |
| 40 | 35.46 | #35.46 | 40534 | 406547 | VV | 5.50 | STYRENE |
| 42 | 36.66 | #36.66 | 20930 | 149744 | BV | 5.40 | CUMENE |
| 44 | 38.09 | #38.09 | 25068 | 162455 | PV | 4.87 | N-PROPYLBENZENE |
| 45 | 38.69 | #38.69 | 27639 | 172663 | VV | 5.24 | O-CHLOROTOLUENE |
| 46 | 38.86 | #38.86 | 30351 | 183096 | VV | 4.92 | P-CHLOROTOLUENE |
| 49 | 40.07 | #40.07 | 27800 | 177152 | VV | 5.43 | 1,2,4-TRIMETHYLBENZENE |
| 51 | 40.72 | #40.72 | 18911 | 133273 | VV | 5.19 | SEC-BUTYLBENZENE |
| 52 | 41.22 | #41.22 | 20583 | 134674 | VV | 5.33 | P-ISOPROPYLTOLUENE |
| 53 | 41.49 | #41.49 | 31803 | 190022 | VV | 5.81 | M-DICHLOROBENZENE |
| 54 | 41.87 | #41.87 | 32731 | 186319 | VV | 5.51 | P-DICHLOROBENZENE |
| 56 | 42.71 | #42.71 | 22574 | 143177 | VV | 5.35 | N-BUTYLBENZENE |
| 57 | 43.20 | #43.20 | 25687 | 156107 | VV | 5.75 | O-DICHLOROBENZENE |
| 68 | 49.32 | 49.35 | 16605 | 99138 | PV | 5.23 | 1,2,4-TRICHLOROBENZENE |
| 69 | 49.90 | 49.93 | 10797 | 75191 | VV | 5.27 | HEXACHLOROBUTADIENE |
| 70 | 50.23 | 50.26 | 18078 | 108004 | VV | 5.08 | NAPHTHALENE |
| 71 | 51.17 | 51.20 | 18550 | 113390 | VV | 7.07 | 1,2,3-TRICHLOROBENZENE |

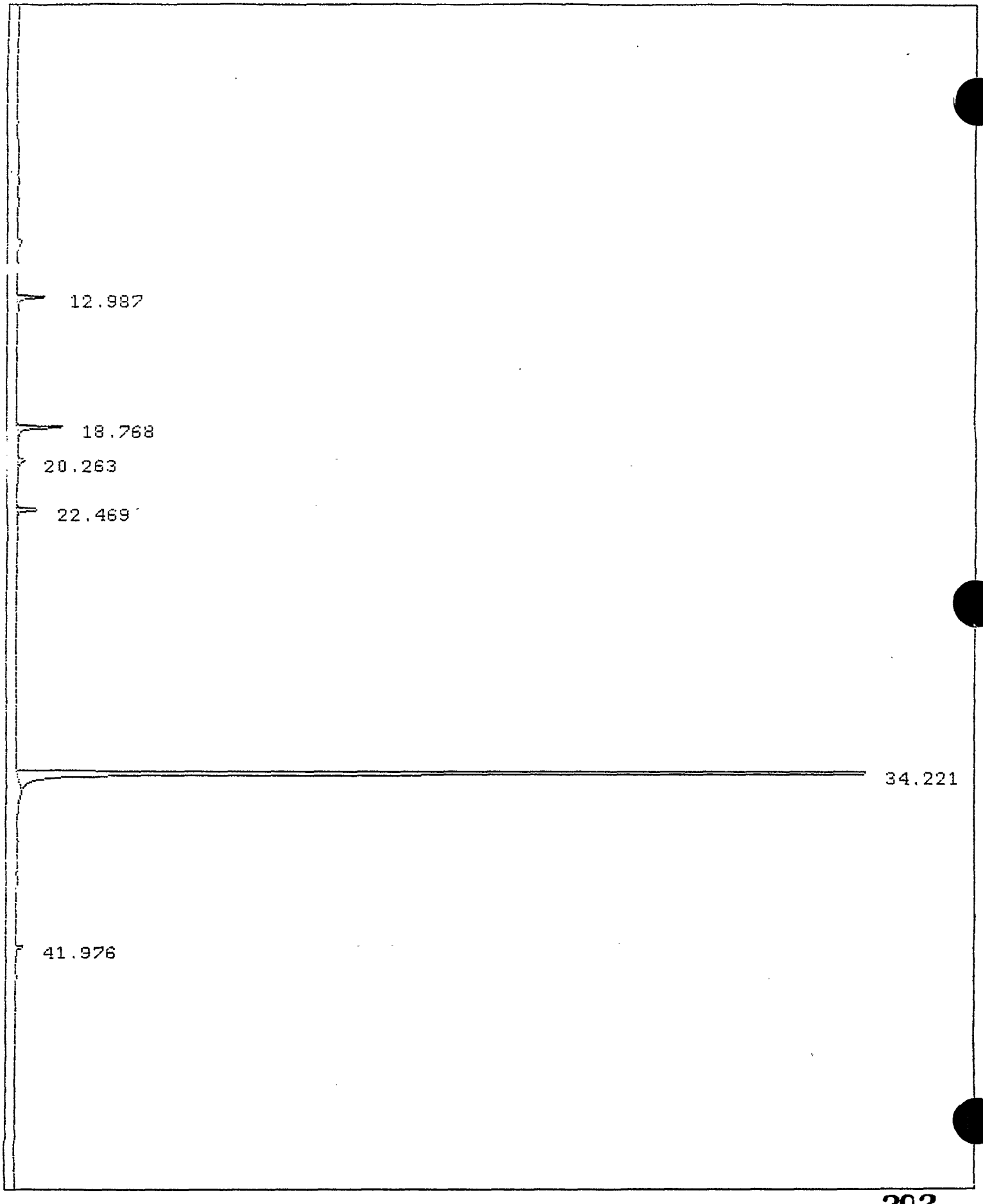
Internal Standard Range: 0 - 0 (Midpoint - 0)
!!! Cannot find init cal std file! !!

Reported on Mon Sep 28, 1992 10:46:17 am
Report Formatfile: /DATA/FORMAT/CAPPID.FMT

RAW QC DATA



AR303858






SAMPLE NAME: BLANK
Resultfile: /CAP/RESULT/H13_268_442.RES
ot Fields: 3000 - 5500 Instrument - HP5890#13HOLT

AR303859

Sample Name: BLANK
Batch # 92268/A13 Injected on Thu Sep 24, 1992 2:14:51 am

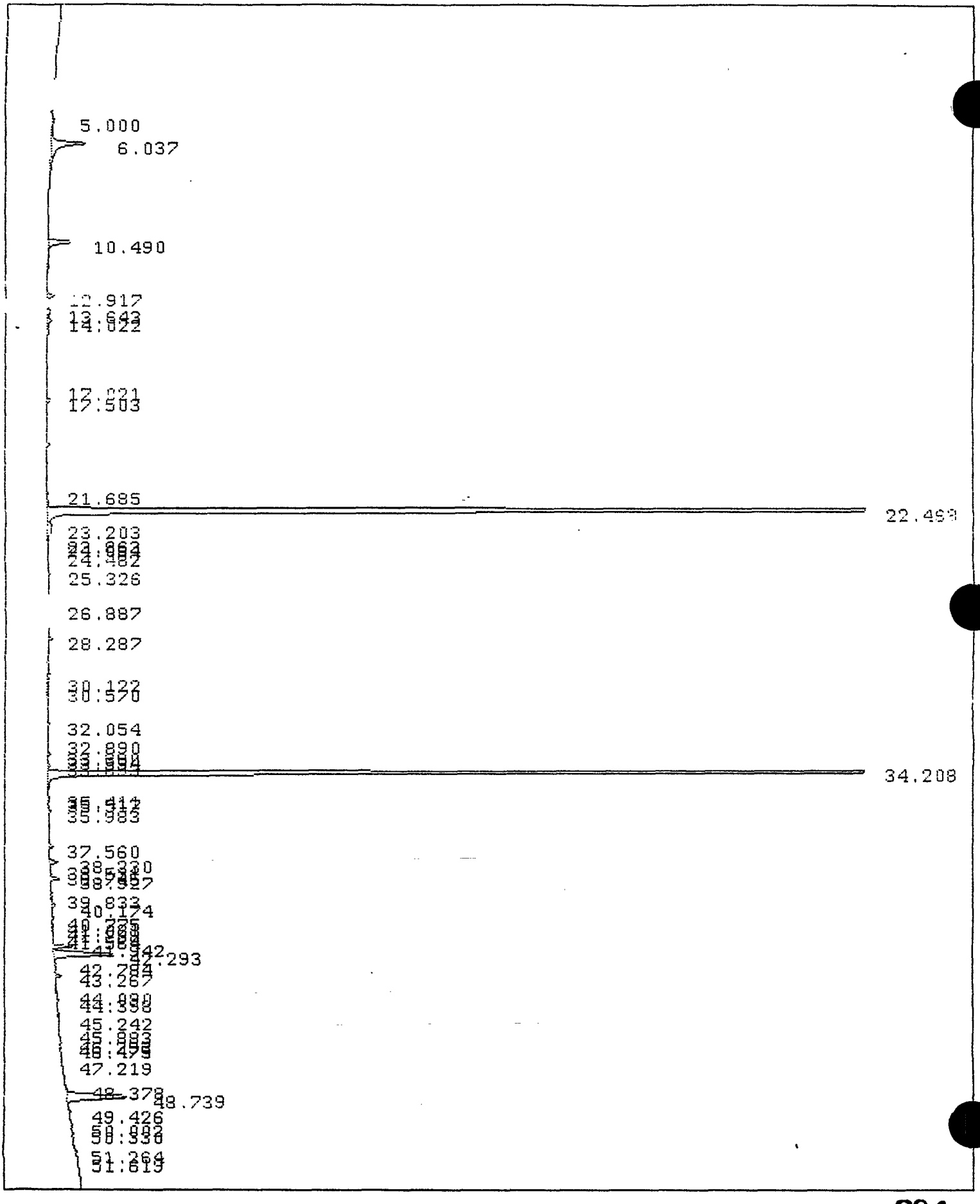
Instrument: HP5890#13HALL Employee #768
ılation: ExternalSTD Quantitation: HeightUnits
ıtfile: /CAP/RESULT/H13_268_442.RES
ethodfile: /CAP/METHOD/H13_268N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
105m x 0.53mm ID fused silica RTX-502.2 column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT 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 | 12.99 | #13.01 | 348 | 3312 | BB | .06 | METHYLENE CHLORIDE |
| 2 | 18.77 | #18.80 | 550 | 5272 | BB | .13 | CHLOROFORM |
| 3 | 20.26 | #20.27 | 85 | 1006 | BB | .04 | 1,1,1-TRICHLOROETHANE |
| 5 | 34.22 | #34.27 | 17863 | 124135 | BB | 97.90 | SURR-1CL2FBENZENE |
| 6 | 41.98 | #42.02 | 97 | 636 | BB | .05 | P-DICHLOROBENZENE |

Reported on Thu Sep 24, 1992 3:09:33 am
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT




SAMPLE NAME: BLANK
Resultfile: /CAP/RESULT/P13_268_442.RES
Plot Fields: 3000 - 10000 Instrument - HP5890#13PTD

AR303861

Sample Name: BLANK
Batch # 92268/A13 Injected on Thu Sep 24, 1992 2:14:51 am

Instrument: HP5890#13PID Employee #768
Ca' ılation: InternalSTD Quantitation: HeightUnits
ıtfile: /CAP/RESULT/P13_268_442.RES
hodfile: /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

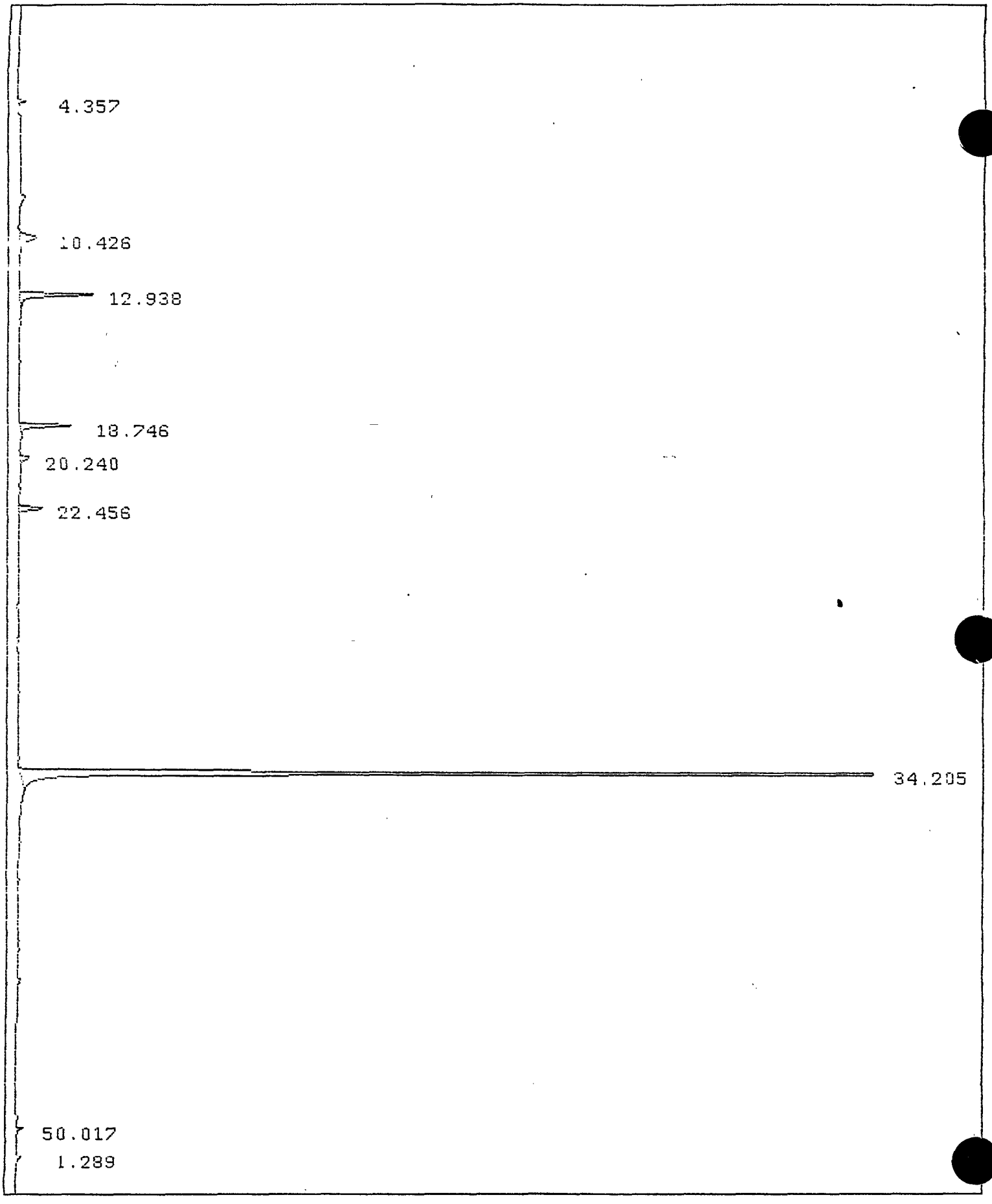
Integration Parameters: Run Time - 53.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .30000 Dilution Factor - 1.00

| 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 |
|---|---|---|---|---|---|---|---|
| 2 | 6.04 | 6.11 | 1162 | 20453 | VV | ~~6.18~~ | VINYL CHLORIDE not seen on Heil-MR 110 .5ug/L |
| 9 | 21.68 | #21.77 | 45 | 521 | VV | .01 | BENZENE |
| 10 | 22.47 | #22.55 | 55310 | 443553 | VV | 100.14 | SURR-FBENZENE |
| 13 | 24.08 | #23.95 | 39 | 484 | VV | .01 | TRICHLOROETHENE |
| 17 | 28.29 | #28.37 | 159 | 1390 | PB | .03 | TOLUENE |
| 19 | 30.57 | #30.65 | 26 | 251 | VV | .01 | TETRACHLOROETHENE |
| 22 | 33.39 | #33.47 | 111 | 788 | BV | .02 | CHLOROBENZENE |
| 23 | 33.59 | #33.69 | 27 | 171 | VV | .00 | ETHYLBENZENE |
| 24 | 33.89 | #33.98 | 130 | 888 | PV | .02 | M-XYLENE |
| 25 | 34.21 | #34.29 | 63693 | 407799 | VV | | ISTD-1CL2FBENZENE |
| [illegible] | 38.23 | #38.24 | 302 | 2087 | BV | .05 | N-PROPYLBENZENE |
| [illegible] | 38.75 | #38.83 | 42 | 285 | VV | .01 | O-CHLOROTOLUENE |
| 33 | 38.93 | #39.00 | 347 | 2148 | VB | .05 | P-CHLOROTOLUENE |
| 35 | 40.17 | #40.22 | 144 | 1357 | VB | .02 | 1,2,4-TRIMETHYLBENZENE |
| 37 | 41.02 | #40.86 | 45 | 357 | VV | .01 | SEC-BUTYLBENZENE |
| 38 | 41.29 | #41.37 | 44 | 304 | VV | .01 | P-ISOPROPYLTOLUENE |
| 39 | 41.56 | #41.64 | 37 | 319 | VV | .01 | M-DICHLOROBENZENE |
| 40 | 41.94 | #42.02 | 702 | 3976 | PV | .10 | P-DICHLOROBENZENE |
| 42 | 42.78 | #42.86 | 73 | 522 | VB | .02 | N-BUTYLBENZENE |
| 43 | 43.27 | #43.35 | 204 | 1247 | BV | .04 | O-DICHLOROBENZENE |
| 53 | 49.43 | 49.47 | 55 | 642 | VV | .02 | 1,2,4-TRICHLOROBENZENE |
| 54 | 50.00 | 50.05 | 40 | 507 | PV | .02 | HEXACHLOROBUTADIENE |
| 55 | 50.33 | 50.38 | 73 | 576 | PV | .02 | NAPHTHALENE |
| 56 | 51.26 | 51.32 | 69 | 849 | PV | .02 | 1,2,3-TRICHLOROBENZENE |

Internal Standard Range: 51808 - 77712 (Midpoint - 64760)

Using initial calibration files.
Reported on Thu Sep 24, 1992 3:11:56 am
Report Formatfile: /DATA/FORMAT/CAPPID.FMT




SAMPLE NAME: BLANK
Resultfile: /CAP/RESULT/H13_268_465.RES
Plot Fields: 3000 - 5500 Instrument - HP5890 H13HALO

206

AR303863

Sample Name: BLANK
Batch # 92268/A13 Injected on Fri Sep 25, 1992 1:15:37 pm

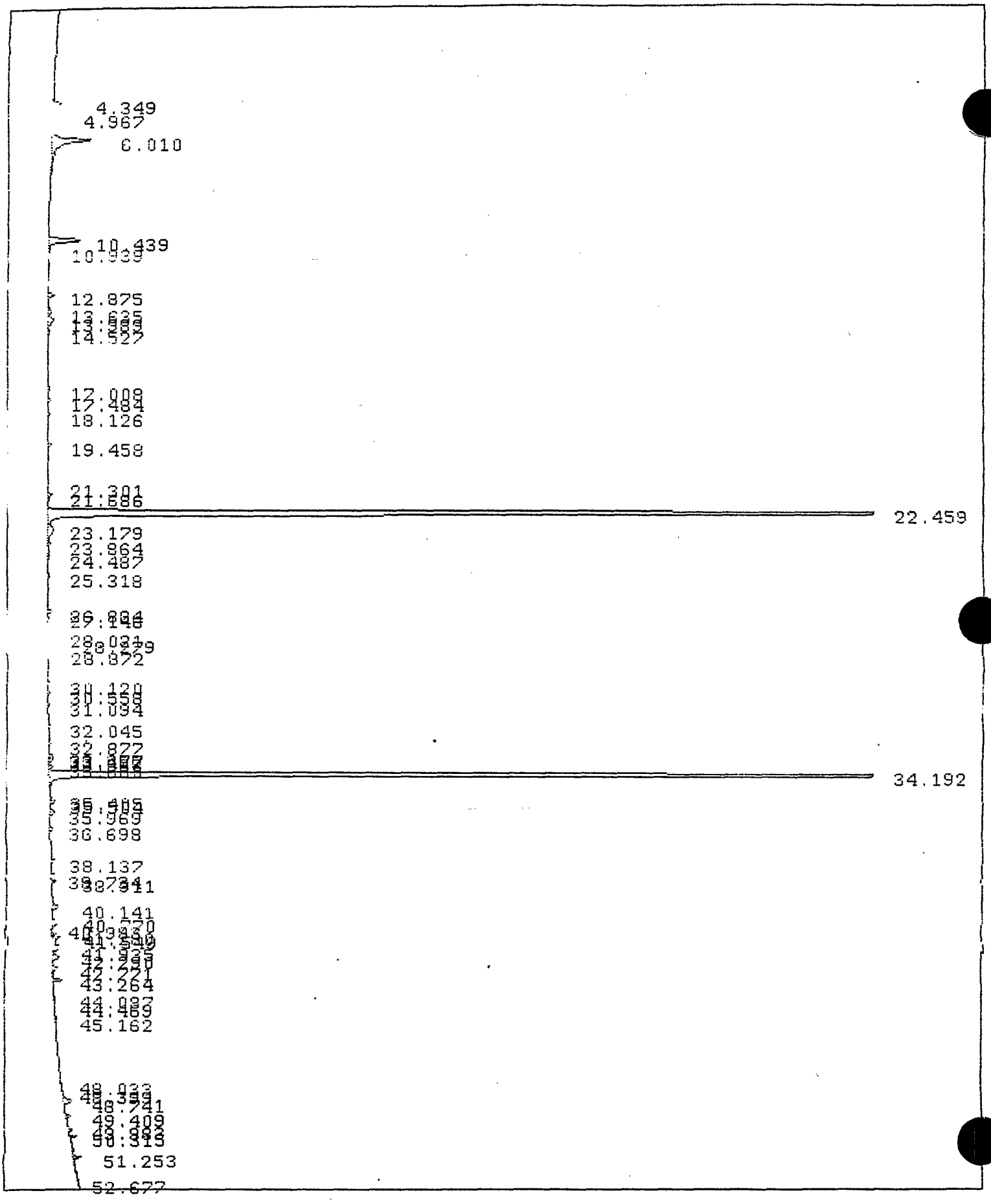
Instrument: HP5890#13HALL Employee #702
Calculation: ExternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/H13_268_465.RES
Methodfile: /CAP/METHOD/H13_268N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
105m x 0.53mm ID fused silica RTX-502.2 column - Hall Detector
HP 3350A LAS v. D.00.01 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 |
|---|---|---|---|---|---|---|---|
| 3 | 12.94 | #12.95 | 939 | 8977 | BB | ~~.13~~ | METHYLENE CHLORIDE $\bar{x}$ = 0.323 DC-1702 9/25/92 |
| 4 | 18.75 | #18.75 | 634 | 5940 | BB | .15 | CHLOROFORM |
| 5 | 20.24 | #20.23 | 118 | 1409 | BB | .06 | 1,1,1-TRICHLOROETHANE |
| 7 | 34.20 | #34.23 | 19230 | 133124 | BB | 105.40 | SURR-1CL2FBENZENE |
| 8 | 50.02 | 50.07 | 77 | 599 | BB | .04 | HEXACHLOROBUTADIENE |
| 9 | 51.29 | 51.34 | 71 | 507 | BB | .06 | 1,2,3-TRICHLOROBENZENE |

Reported on Fri Sep 25, 1992 2:10:29 pm
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT




SAMPLE NAME: BLANK
Resultfile: /CAP/RESULT/P13_268_465.RES
Plot Fields: 3000 - 10000 Instrument - HP5890#13PID

AR303865 208

Sample Name: BLANK
Batch # 92268/A13 Injected on Fri Sep 25, 1992 1:15:37 pm

Instrument: HP5890#13PID Employee #702
Calculation: InternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/P13_268_465.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

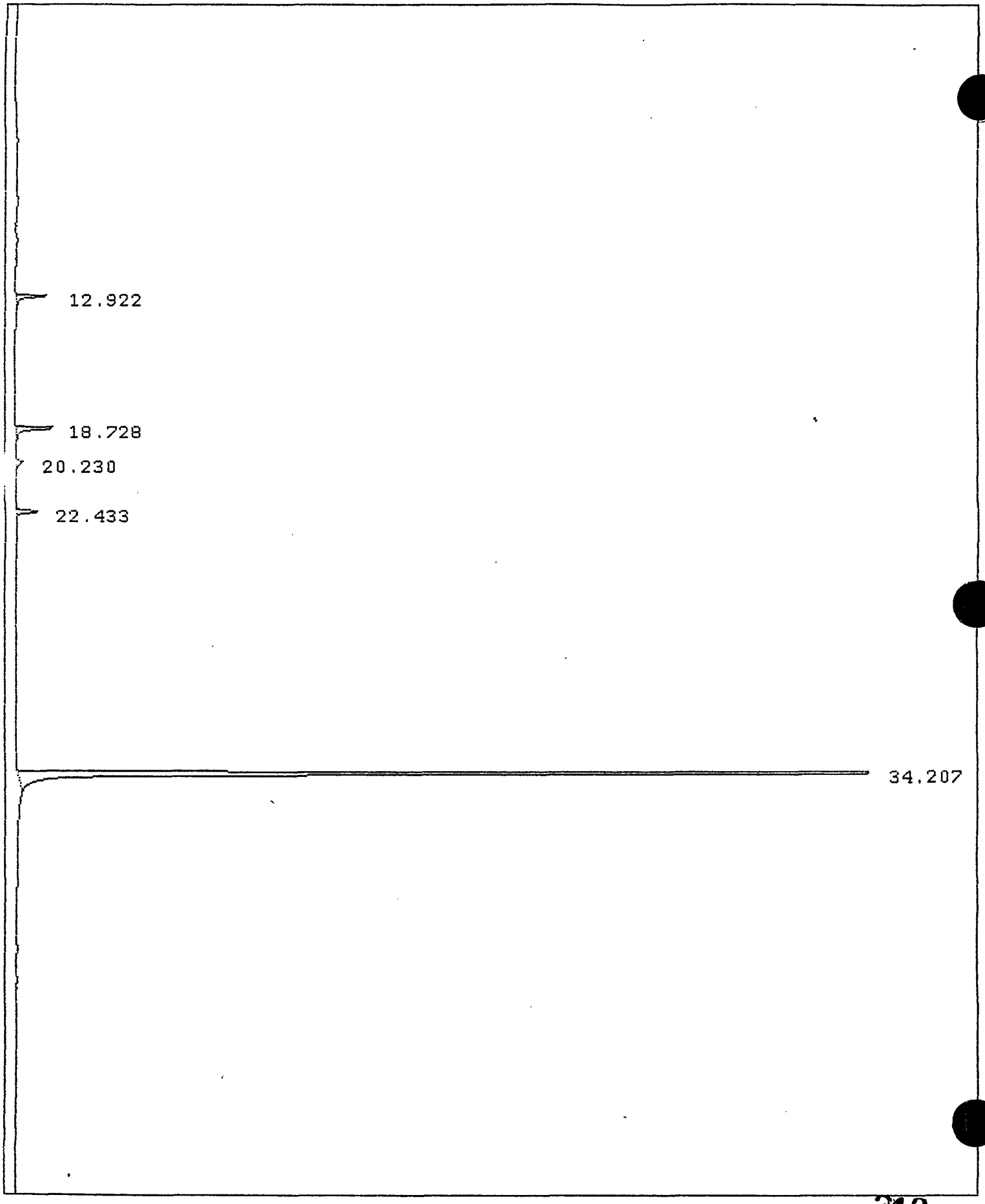
Integration Parameters: Run Time - 53.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .30000 Dilution Factor - 1.00

| 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 | 6.08 | 1278 | 22969 | VV | 6.25 | VINYL CHLORIDE |
| 5 | 10.94 | 11.00 | 35 | 534 | VV | .03 | 1,1-DICHLOROETHENE |
| 12 | 18.13 | #18.14 | 47 | 417 | VV | .02 | CIS-1,2-DICHLOROETHENE |
| 15 | 21.69 | #21.70 | 125 | 1431 | VV | .02 | BENZENE |
| 16 | 22.46 | #22.48 | 57233 | 459114 | VV | 99.61 | SURR-FBENZENE |
| 18 | 23.86 | #23.89 | 89 | 856 | VV | .03 | TRICHLOROETHENE |
| 22 | 27.15 | #27.18 | 36 | 270 | VV | .02 | CIS-1,3-DICHLOROPROPENE |
| 24 | 28.28 | #28.32 | 324 | 2589 | VV | .05 | TOLUENE |
| 25 | 28.87 | #28.91 | 38 | 313 | VB | .01 | TRANS-1,3-DICHLOROPROPENE |
| 27 | 30.56 | #30.59 | 69 | 557 | VV | .02 | TETRACHLOROETHENE |
| 31 | 33.38 | #33.41 | 153 | 876 | BV | .02 | CHLOROBENZENE |
| [illegible] | 33.59 | #33.63 | 144 | 954 | VV | .02 | ETHYLBENZENE |
| [illegible] | 33.88 | #33.91 | 138 | 962 | VV | .02 | M-XYLENE |
| 35 | 34.19 | #34.22 | 66257 | 421679 | VV | | ISTD-1CL2FBENZENE |
| 37 | 35.50 | #35.53 | 170 | 1175 | VV | .02 | STYRENE |
| 39 | 36.70 | #36.72 | 130 | 1022 | BB | .03 | CUMENE |
| 40 | 38.14 | #38.15 | 123 | 819 | BV | .02 | N-PROPYLBENZENE |
| 41 | 38.73 | #38.75 | 122 | 766 | PV | .02 | O-CHLOROTOLUENE |
| 42 | 38.91 | #38.92 | 160 | 961 | VV | .02 | P-CHLOROTOLUENE |
| 43 | 40.14 | #40.14 | 211 | 1626 | BV | .03 | 1,2,4-TRIMETHYLBENZENE |
| 44 | 40.77 | #40.79 | 129 | 1085 | PV | .03 | SEC-BUTYLBENZENE |
| 46 | 41.28 | #41.29 | 129 | 938 | VV | .03 | P-ISOPROPYLTOLUENE |
| 47 | 41.55 | #41.56 | 180 | 1212 | VV | .03 | M-DICHLOROBENZENE |
| 48 | 41.93 | #41.95 | 198 | 1158 | PV | .03 | P-DICHLOROBENZENE |
| 50 | 42.77 | #42.78 | 154 | 1212 | VV | .03 | N-BUTYLBENZENE |
| 51 | 43.26 | #43.27 | 333 | 2158 | VV | .06 | O-DICHLOROBENZENE |
| 58 | 49.41 | 49.47 | 169 | 1072 | VV | .05 | 1,2,4-TRICHLOROBENZENE |
| 59 | 49.98 | 50.05 | 136 | 1077 | PV | .06 | HEXACHLOROBUTADIENE |
| 60 | 50.32 | 50.38 | 218 | 1578 | VV | .05 | NAPHTHALENE |
| 61 | 51.25 | 51.32 | 317 | 3072 | VV | .10 | 1,2,3-TRICHLOROBENZENE |

Internal Standard Range: 51808 - 77712 (Midpoint - 64760)

Using initial calibration files.
Reported on Fri Sep 25, 1992 2:12:48 pm
Report Formatfile: /DATA/FORMAT/CAPPID.FMT




SAMPLE NAME: BLANK
Resultfile: /CAP/RESULT/H13_268_479.RES
Plot Fields: 3000 - 5500 Instrument - HP5890#13HOLT

AR303867

Sample Name: BLANK
Batch # 92268/A13 Injected on Mon Sep 28, 1992 8:18:18 am

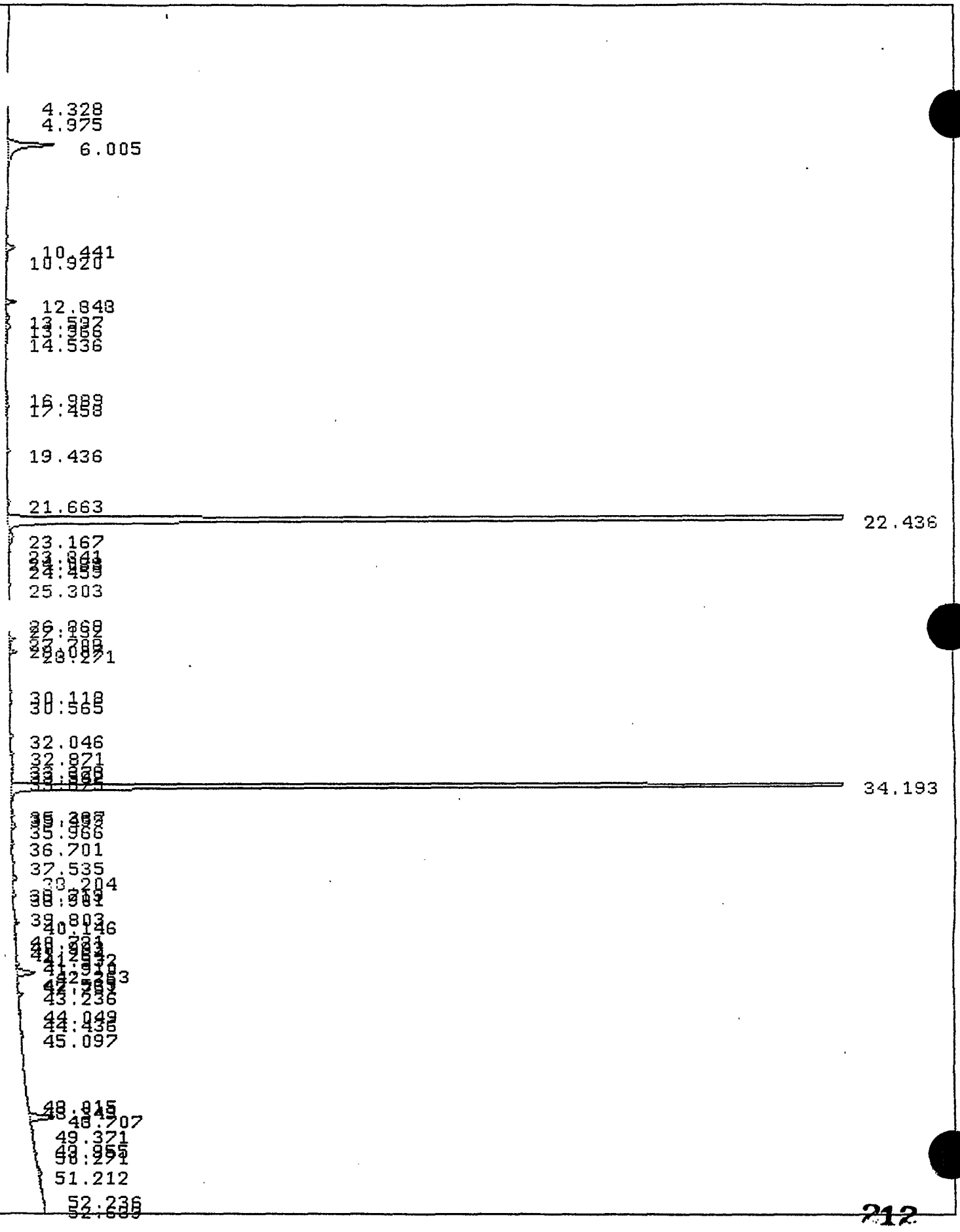
Instrument: HP5890#13HALL Employee #378
Calculation: ExternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/H13_268_479.RES
Methodfile: /CAP/METHOD/H13_268N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
105m x 0.53mm ID fused silica RTX-502.2 column - Hall Detector
HP 3350A LAS v. D.00.01 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 | 12.92 | #12.90 | 368 | 3477 | BB | .06 | METHYLENE CHLORIDE |
| 2 | 18.73 | #18.69 | 499 | 4857 | BB | .12 | CHLOROFORM |
| 3 | 20.23 | #20.17 | 81 | 995 | BB | .04 | 1,1,1-TRICHLOROETHANE |
| 5 | 34.21 | #34.19 | 19222 | 134048 | BB | 105.35 | SURR-1CL2FBENZENE |

Reported on Mon Sep 28, 1992 9:13:01 am
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT






SAMPLE NAME: BLANK

AR303869

Resultfile: /CAP/RESULT/P13_268_479.RES

Plot Fields: 3000 - 10000 Instrument - HP5890#13PID

Sample Name: BLANK
Batch # 92268/A13 Injected on Mon Sep 28, 1992 8:18:18 am

Instrument: HP5890#13PID Employee #378
Calculation: InternalSTD Quantitation: HeightUnits
Resultfile: /CAP/RESULT/P13_268_479.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

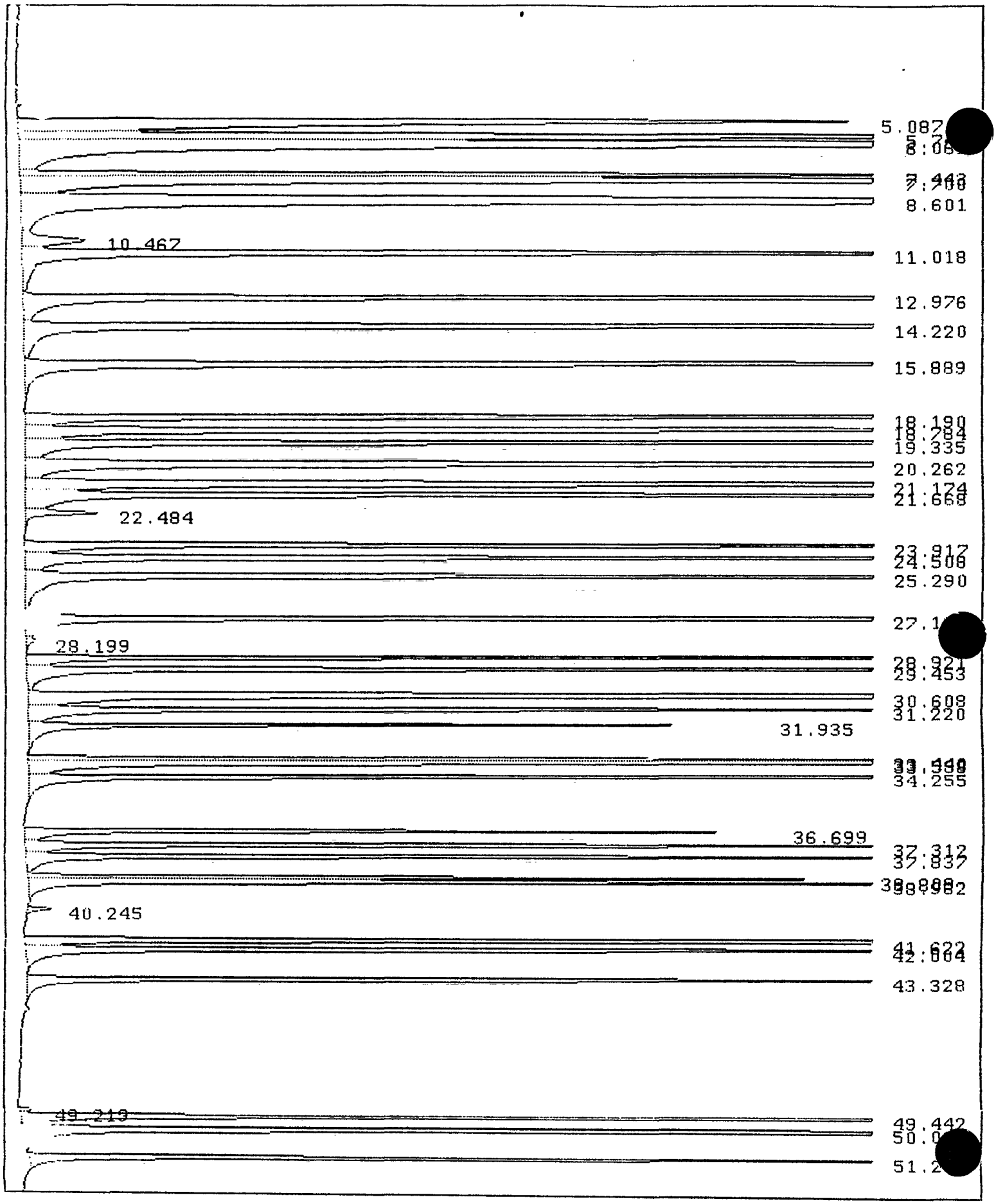
Integration Parameters: Run Time - 53.00
Threshold - 2.0 Minimum Area - 1.000E+02
Peak Width - .30000 Dilution Factor - 1.00

| 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 | 6.05 | 1478 | 25113 | VV | 6.38 | VINYL CHLORIDE not seen on the Hell 170 10/2/92 |
| 5 | 10.92 | 10.96 | 20 | 304 | VB | .01 | 1,1-DICHLOROETHENE |
| 13 | 21.66 | #21.64 | 79 | 786 | PB | .01 | BENZENE |
| 14 | 22.44 | #22.41 | 59438 | 476363 | BV | 99.29 | SURR-FBENZENE |
| 16 | 23.84 | #23.81 | 43 | 506 | VV | .01 | TRICHLOROETHENE |
| 21 | 27.13 | #27.10 | 19 | 143 | VV | .01 | CIS-1,3-DICHLOROPROPENE |
| 24 | 28.27 | #28.24 | 237 | 1885 | VV | .04 | TOLUENE |
| 26 | 30.57 | #30.53 | 31 | 312 | VV | .01 | TETRACHLOROETHENE |
| 29 | 33.38 | #33.36 | 99 | 677 | BV | .01 | CHLOROBENZENE |
| 30 | 33.59 | #33.58 | 81 | 624 | VV | .01 | ETHYLBENZENE |
| [illegible] | 33.87 | #33.86 | 58 | 414 | PV | .01 | M-XYLENE |
| [illegible] | 34.19 | #34.18 | 69034 | 440265 | VV | | ISTD-1CL2FBENZENE |
| [illegible] | 35.50 | #35.49 | 65 | 497 | VV | .01 | STYRENE |
| 36 | 36.70 | #36.69 | 60 | 506 | BB | .01 | CUMENE |
| 38 | 38.20 | #38.13 | 151 | 1072 | BV | .02 | N-PROPYLBENZENE |
| 39 | 38.72 | #38.73 | 30 | 183 | VV | .00 | O-CHLOROTOLUENE |
| 40 | 38.90 | #38.90 | 99 | 588 | VV | .01 | P-CHLOROTOLUENE |
| 42 | 40.15 | #40.11 | 133 | 1211 | VV | .02 | 1,2,4-TRIMETHYLBENZENE |
| 43 | 40.72 | #40.76 | 42 | 429 | PV | .01 | SEC-BUTYLBENZENE |
| 45 | 41.26 | #41.26 | 32 | 248 | VV | .01 | P-ISOPROPYLTOLUENE |
| 46 | 41.53 | #41.53 | 44 | 378 | VB | .01 | M-DICHLOROBENZENE |
| 47 | 41.91 | #41.91 | 119 | 687 | BV | .02 | P-DICHLOROBENZENE |
| 50 | 42.75 | #42.75 | 37 | 298 | VB | .01 | N-BUTYLBENZENE |
| 51 | 43.24 | #43.24 | 218 | 1338 | BB | .04 | O-DICHLOROBENZENE |
| 58 | 49.37 | 49.35 | 65 | 491 | PV | .02 | 1,2,4-TRICHLOROBENZENE |
| 59 | 49.96 | 49.93 | 36 | 339 | PV | .01 | HEXACHLOROBUTADIENE |
| 60 | 50.27 | 50.26 | 73 | 667 | VV | .02 | NAPHTHALENE |
| 61 | 51.21 | 51.20 | 111 | 2162 | VV | .03 | 1,2,3-TRICHLOROBENZENE |

Internal Standard Range: 0 - 0 (Midpoint - 0)
!!! Cannot find init cal std file! !!

Reported on Mon Sep 28, 1992 9:30:43 am
Report Formatfile: /DATA/FORMAT/CAPPID.FMT




SAMPLE NAME: 1868449
Resultfile: /CAP/RESULT/H13_268_449.RES
Plot Fields: 3000 - 5500 Instrument - HP5890#13HALL

AR303871

210

Sample Name: 1868449
Batch # 92268/A13 Injected on Thu Sep 24, 1992 12:32:41 pm

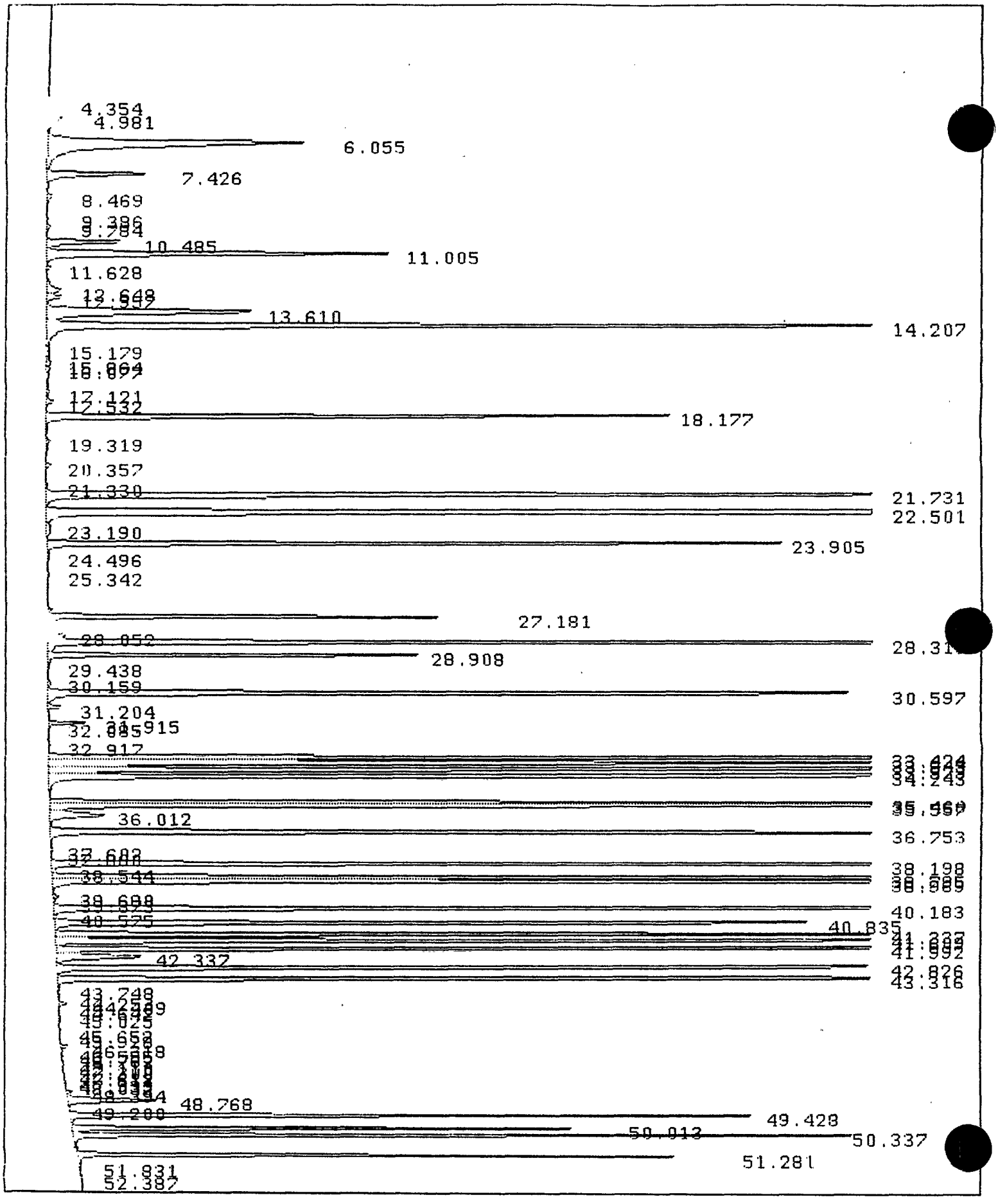
Instrument: HP5890#13HALL Employee #439
lation: ExternalSTD Quantitation: HeightUnits
tfile: /CAP/RESULT/H13_268_449.RES
Methodfile: /CAP/METHOD/H13_268N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
105m x 0.53mm ID fused silica RTX-502.2 column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT 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 | 5.09 | 5.09 | 9755 | 167340 | BV | 24.40 | DICHLORODIFLUOROMETHANE |
| 2 | 5.75 | 5.75 | 19625 | 238163 | VV | 21.23 | CHLOROMETHANE |
| 3 | 6.06 | 6.10 | 18269 | 290059 | VV | 20.95 | VINYL CHLORIDE |
| 4 | 7.44 | 7.45 | 11506 | 113739 | VV | 21.22 | BROMOMETHANE |
| 5 | 7.70 | 7.71 | 22686 | 304697 | VV | 20.71 | CHLOROETHANE |
| 6 | 8.60 | 8.61 | 22293 | 385518 | VV | 20.31 | TRICHLOROFLUOROMETHANE |
| 8 | 11.02 | #11.02 | 14054 | 169083 | VV | 9.09 | 1,1-DICHLOROETHENE |
| 9 | 12.98 | #12.98 | 23787 | 221581 | VV | 8.39 | METHYLENE CHLORIDE |
| 10 | 14.22 | #14.22 | 18577 | 172953 | VV | 8.70 | TRANS-1,2-DICHLOROETHENE |
| 11 | 15.89 | #15.89 | 17410 | 190530 | VB | 9.20 | 1,1-DICHLOROETHANE |
| 12 | 18.19 | #18.19 | 22932 | 196084 | BV | 9.95 | CIS-1,2-DICHLOROETHENE |
| [illegible] | 18.78 | #18.78 | 24521 | 230980 | VV | 8.62 | CHLOROFORM |
| [illegible] | 19.34 | #19.34 | 15784 | 136675 | VV | 8.66 | BROMOCHLOROMETHANE |
| 15 | 20.26 | #20.26 | 16995 | 203569 | VV | 8.82 | 1,1,1-TRICHLOROETHANE |
| 16 | 21.17 | #21.17 | 20886 | 233207 | VV | 9.25 | CARBON TETRACHLORIDE |
| 17 | 21.67 | #21.67 | 21859 | 182174 | VV | 8.87 | 1,2-DICHLOROETHANE |
| 19 | 23.92 | #23.92 | 26400 | 208885 | BV | 9.60 | TRICHLOROETHENE |
| 20 | 24.51 | #24.51 | 17538 | 156325 | VV | 8.53 | 1,2-DICHLOROPROPANE |
| 21 | 25.29 | #25.29 | 20331 | 173974 | VV | 8.93 | BROMODICHLOROMETHANE |
| 22 | 27.19 | #27.19 | 24963 | 182330 | VV | 10.68 | CIS-1,3-DICHLOROPROPENE |
| 24 | 28.92 | #28.92 | 17871 | 116424 | PV | 7.01 | TRANS-1,3-DICHLOROPROPENE |
| 25 | 29.45 | #29.45 | 23132 | 175274 | VV | 8.70 | 1,1,2-TRICHLOROETHANE |
| 26 | 30.61 | #30.61 | 41660 | 320857 | VV | 14.65 | TETRACHLOROETHENE |
| 27 | 31.22 | #31.22 | 13987 | 110902 | VV | 8.16 | DIBROMOCHLOROMETHANE |
| 28 | 31.93 | #31.93 | 8572 | 67745 | VB | 7.90 | ETHYLENE DIBROMIDE |
| 29 | 33.44 | 33.44 | 11755 | 68145 | BV | 9.08 | CHLOROBENZENE |
| 30 | 33.59 | #33.59 | 27625 | 231172 | VV | 8.94 | 1,1,1,2-TETRACHLOROETHANE |
| 31 | 34.26 | #34.26 | 21000 | 155177 | VB | 115.09 | SURR-1CL2FBENZENE |
| 32 | 36.70 | #36.70 | 8928 | 66114 | BV | 8.69 | BROMOFORM |
| 33 | 37.31 | #37.31 | 16276 | 118043 | VV | 8.70 | 1,1,2,2-TETRACHLOROETHANE |
| 34 | 37.84 | #37.84 | 11805 | 88037 | VV | 8.04 | 1,2,3-TRICHLOROPROPANE |
| 35 | 38.81 | #38.81 | 9916 | 64193 | VV | 8.86 | O-CHLOROTOLUENE |
| 36 | 38.98 | #38.98 | 11378 | 82071 | VB | 9.05 | P-CHLOROTOLUENE |
| 38 | 41.62 | #41.62 | 16503 | 107175 | BV | 8.80 | M-DICHLOROBENZENE |
| 39 | 42.00 | #42.00 | 20619 | 136200 | VV | 9.66 | P-DICHLOROBENZENE |
| 40 | 43.33 | #43.33 | 17979 | 121781 | BB | 9.49 | O-DICHLOROBENZENE |
| [illegible] | 49.44 | 49.48 | 16407 | 108112 | VV | 8.44 | 1,2,4-TRICHLOROBENZENE |
| [illegible] | 50.03 | 50.07 | 23126 | 181785 | VV | 9.31 | HEXACHLOROBUTADIENE |
| [illegible] | 51.29 | 51.34 | 13991 | 93161 | PV | 8.95 | 1,2,3-TRICHLOROBENZENE |

Reported on Thu Sep 24, 1992 1:27:48 pm
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT




SAMPLE NAME: 1868449
Resultfile: /CAP/RESULT/P13_268_449.RES
Plot Fields: 3000 - 10000 Instrument - HP5890#13PID

AR303873

Sample Name: 1868449
Batch # 92268/A13 Injected on Thu Sep 24, 1992 12:32:41 pm

Instrument: HP5890#13PID Employee #439
Ca' 'lation: InternalSTD Quantitation: HeightUnits
[illegible] .tfile: /CAP/RESULT/P13_268_449.RES
[illegible] hodfile: /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 | 6.05 | 6.09 | 8348 | 151796 | VV | 18.85 | VINYL CHLORIDE |
| 9 | 11.00 | 11.03 | 11459 | 122601 | VV | 8.22 | 1,1-DICHLOROETHENE |
| 14 | 14.21 | #14.21 | 33831 | 286781 | VV | 8.10 | TRANS-1,2-DICHLOROETHENE |
| 20 | 18.18 | #18.18 | 21894 | 176638 | VV | 9.10 | CIS-1,2-DICHLOROETHENE |
| 24 | 21.73 | #21.73 | 38977 | 325650 | VV | 8.29 | BENZENE |
| 25 | 22.50 | #22.50 | 60278 | 484591 | VV | 98.65 | SURR-FBENZENE |
| 27 | 23.90 | #23.90 | 27268 | 200019 | VV | 8.88 | TRICHLOROETHENE |
| 30 | 27.18 | #27.18 | 14699 | 96584 | PV | 9.74 | CIS-1,3-DICHLOROPROPENE |
| 32 | 28.32 | #28.32 | 41533 | 296256 | VV | 8.07 | TOLUENE |
| [illegible] | 28.91 | #28.91 | 15177 | 90740 | VV | 6.47 | TRANS-1,3-DICHLOROPROPENE |
| [illegible] | 30.60 | #30.60 | 31638 | 222656 | VV | 13.24 | TETRACHLOROETHENE |
| [illegible] | 33.42 | #33.42 | 51821 | 330798 | BV | 8.29 | CHLOROBENZENE |
| 42 | 33.64 | #33.64 | 42542 | 288031 | VV | 8.48 | ETHYLBENZENE |
| 43 | 33.93 | #33.93 | 46746 | 313314 | VV | 8.11 | M-XYLENE |
| 44 | 34.24 | #34.24 | 70464 | 454668 | VV | | ISTD-1CL2FBENZENE |
| 46 | 35.56 | #35.56 | 64687 | 443621 | VV | 8.70 | STYRENE |
| 48 | 36.75 | #36.75 | 32787 | 235691 | VV | 8.39 | CUMENE |
| 51 | 38.20 | #38.20 | 45451 | 295741 | PV | 8.82 | N-PROPYLBENZENE |
| 53 | 38.79 | #38.79 | 43349 | 271953 | VV | 8.19 | O-CHLOROTOLUENE |
| 54 | 38.97 | #38.97 | 52415 | 315514 | VV | 8.47 | P-CHLOROTOLUENE |
| 57 | 40.18 | #40.18 | 43111 | 275549 | VV | 8.37 | 1,2,4-TRIMETHYLBENZENE |
| 59 | 40.84 | #40.84 | 29569 | 208345 | VV | 8.13 | SEC-BUTYLBENZENE |
| 60 | 41.34 | #41.34 | 33373 | 217163 | VV | 8.63 | P-ISOPROPYLTOLUENE |
| 61 | 41.61 | #41.61 | 45232 | 270293 | VV | 8.21 | M-DICHLOROBENZENE |
| 62 | 41.99 | #41.99 | 54287 | 308520 | VV | 9.10 | P-DICHLOROBENZENE |
| 64 | 42.83 | #42.83 | 34991 | 221189 | VV | 8.31 | N-BUTYLBENZENE |
| 65 | 43.32 | #43.32 | 39539 | 238448 | VV | 8.84 | O-DICHLOROBENZENE |
| 84 | 49.43 | 49.47 | 24668 | 146450 | VV | 7.79 | 1,2,4-TRICHLOROBENZENE |
| 85 | 50.01 | 50.05 | 17756 | 123309 | VV | 8.69 | HEXACHLOROBUTADIENE |
| 86 | 50.34 | 50.38 | 28798 | 171060 | VV | 8.32 | NAPHTHALENE |
| 87 | 51.28 | 51.32 | 21567 | 132166 | VV | 8.23 | 1,2,3-TRICHLOROBENZENE |

Internal Standard Range: 51808 - 77712 (Midpoint - 64760)

Using initial calibration files.
Reported on Thu Sep 24, 1992 1:30:30 pm
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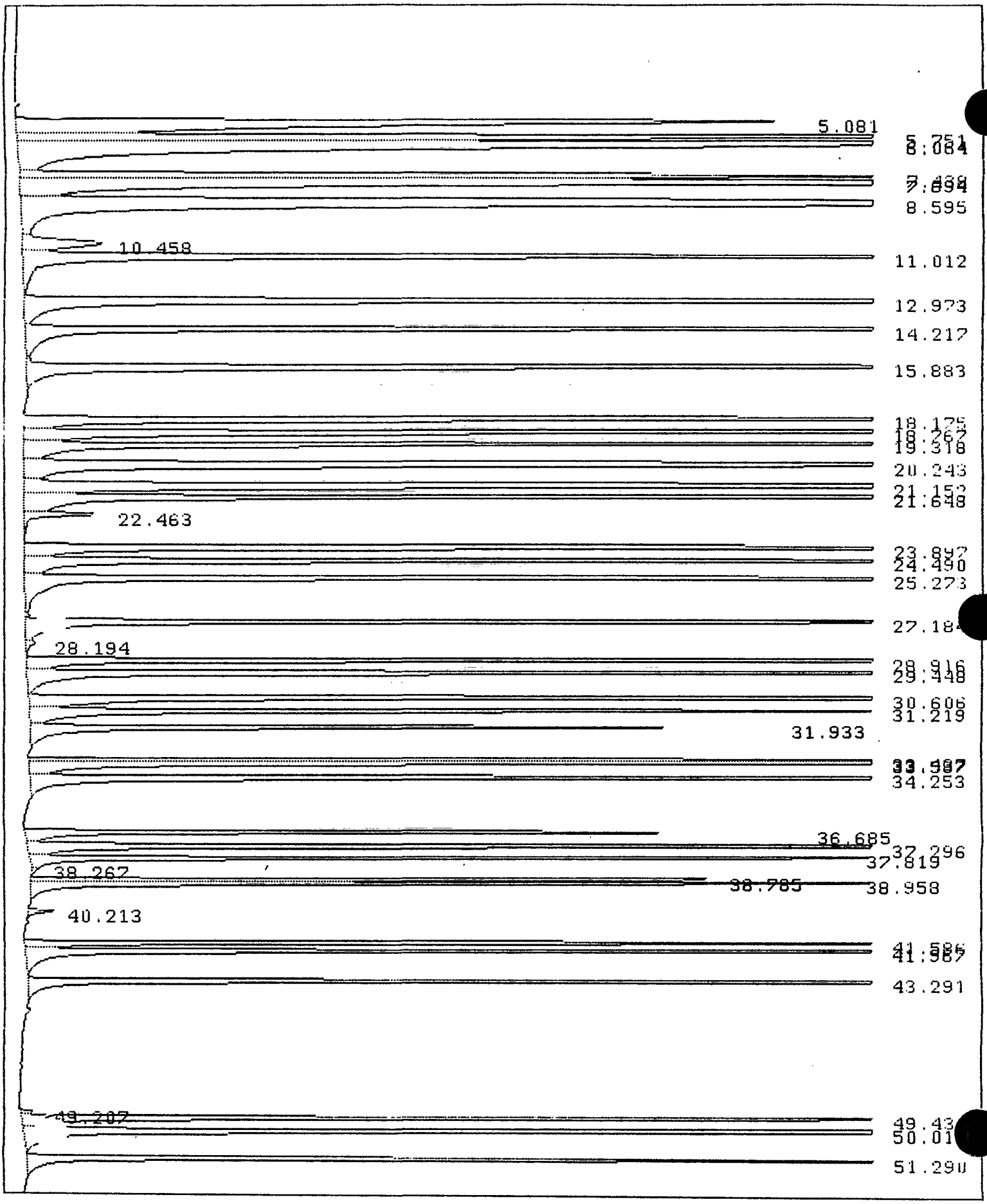



SAMPLE NAME: 1868450
Resultfile: /CAP/RESULT/H13_268_450.RES
Plot Fields: 3000 - 5500 Instrument - HP5890#13HALL

AR303875

218

Sample Name: 1868450
Batch # 92268/A13 Injected on Thu Sep 24, 1992 1:58:15 pm

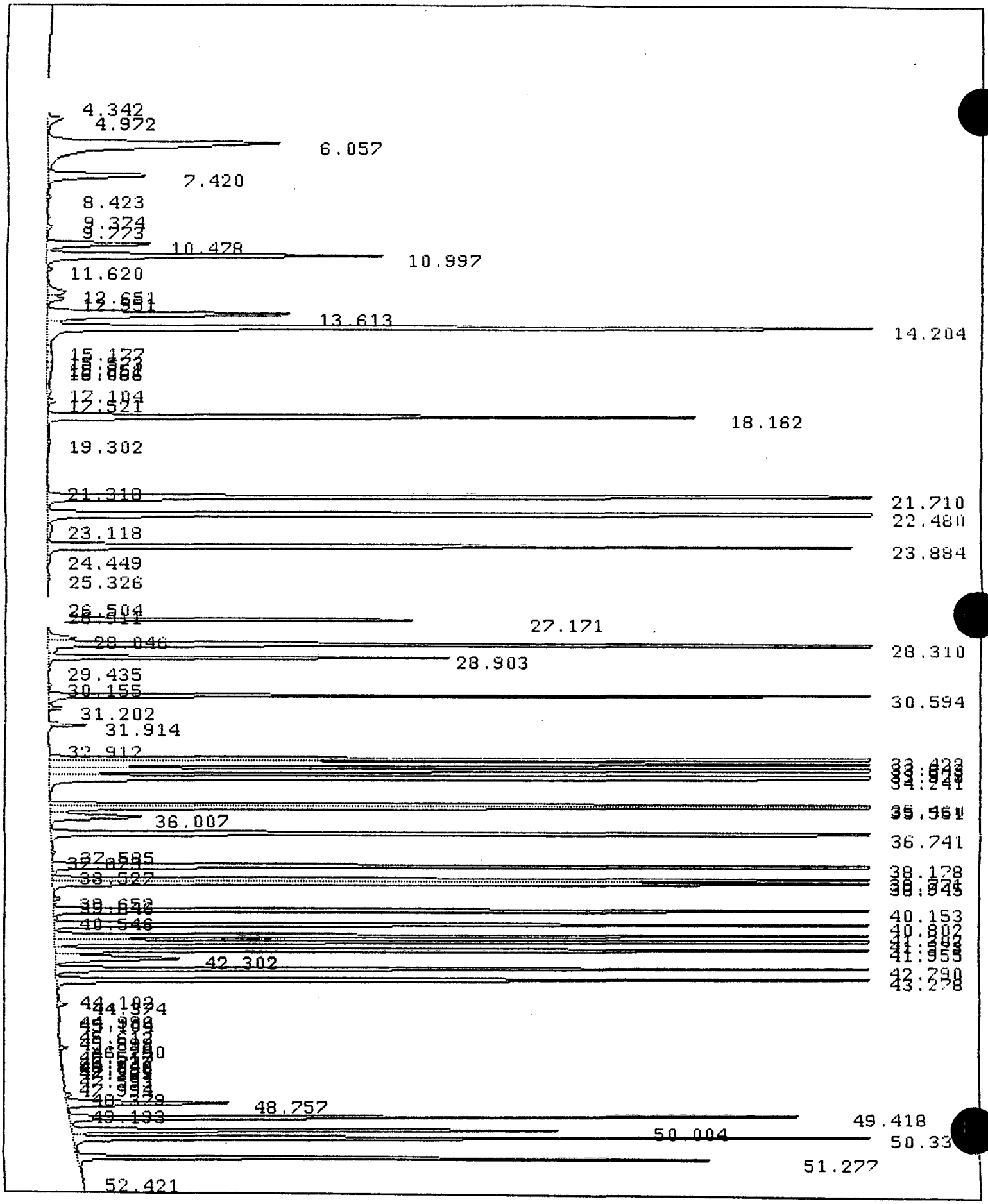
Instrument: HP5890#13HALL Employee #439
Calculation: ExternalSTD Quantitation: HeightUnits
Re ·ltfile: /CAP/RESULT/H13_268_450.RES
ɔdfile: /CAP/METHOD/H13_268N.MTH
EPA METHOD 502.2 CONDITIONS TRAP #1 (EPA 601)
105m x·0.53mm ID fused silica RTX-502.2 column - Hall Detector
HP 3350A LAS v. D.00.01 INSTRUMENT 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 | 5.08 | 5.09 | 8888 | 161651 | BV | 22.23 | DICHLORODIFLUOROMETHANE |
| 2 | 5.75 | 5.74 | 15859 | 203528 | VV | 16.96 | CHLOROMETHANE |
| 3 | 6.06 | 6.09 | 15100 | 283024 | VV | 17.14 | VINYL CHLORIDE |
| 4 | 7.44 | 7.44 | 10508 | 106191 | VV | 19.41 | BROMOMETHANE |
| 5 | 7.69 | 7.70 | 20762 | 300371 | VV | 18.87 | CHLOROETHANE |
| 6 | 8.59 | 8.61 | 20256 | 372514 | VV | 18.40 | TRICHLOROFLUOROMETHANE |
| 8 | 11.01 | #11.01 | 13415 | 167399 | VV | 8.65 | 1,1-DICHLOROETHENE |
| 9 | 12.97 | #12.97 | 23052 | 218649 | VV | 8.09 | METHYLENE CHLORIDE |
| 10 | 14.22 | #14.22 | 18309 | 170355 | VV | 8.57 | TRANS-1,2-DICHLOROETHENE |
| 11 | 15.88 | #15.88 | 17062 | 185798 | VV | 9.01 | 1,1-DICHLOROETHANE |
| 12 | 18.18 | #18.18 | 22591 | 192294 | BV | 9.80 | CIS-1,2-DICHLOROETHENE |
| 13 | 18.77 | #18.77 | 24306 | 228553 | VV | 8.54 | CHLOROFORM |
| 14 | 19.32 | #19.32 | 15751 | 136969 | VV | 8.64 | BROMOCHLOROMETHANE |
| [illegible] | 20.24 | #20.24 | 16905 | 202704 | VV | 8.77 | 1,1,1-TRICHLOROETHANE |
| [illegible] | 21.15 | #21.15 | 21137 | 235276 | VV | 9.37 | CARBON TETRACHLORIDE |
| 17 | 21.65 | #21.65 | 22371 | 188185 | VV | 9.09 | 1,2-DICHLOROETHANE |
| 19 | 23.90 | #23.90 | 26967 | 214504 | BV | 9.81 | TRICHLOROETHENE |
| 20 | 24.49 | #24.49 | 17934 | 162112 | VV | 8.73 | 1,2-DICHLOROPROPANE |
| 21 | 25.27 | #25.27 | 20992 | 180606 | VV | 9.22 | BROMODICHLOROMETHANE |
| 22 | 27.18 | #27.18 | 25608 | 187128 | VV | 10.96 | CIS-1,3-DICHLOROPROPENE |
| 24 | 28.92 | #28.92 | 18148 | 118778 | PV | 7.12 | TRANS-1,3-DICHLOROPROPENE |
| 25 | 29.45 | #29.45 | 23510 | 178866 | VV | 8.85 | 1,1,2-TRICHLOROETHANE |
| 26 | 30.61 | #30.61 | 42447 | 327002 | VV | 14.96 | TETRACHLOROETHENE |
| 27 | 31.22 | #31.22 | 13895 | 111313 | VV | 8.11 | DIBROMOCHLOROMETHANE |
| 28 | 31.93 | #31.93 | 8585 | 66673 | VV | 7.91 | ETHYLENE DIBROMIDE |
| 29 | 33.44 | 33.44 | 11752 | 68388 | BV | 9.08 | CHLOROBENZENE |
| 30 | 33.59 | #33.59 | 27598 | 231538 | VV | 8.93 | 1,1,1,2-TETRACHLOROETHANE |
| 31 | 34.25 | #34.25 | 20039 | 145309 | VV | 109.83 | SURR-1CL2FBENZENE |
| 32 | 36.69 | #36.69 | 8967 | 66530 | BV | 8.73 | BROMOFORM |
| 33 | 37.30 | #37.30 | 16920 | 121368 | VV | 9.08 | 1,1,2,2-TETRACHLOROETHANE |
| 34 | 37.82 | #37.82 | 12317 | 87624 | VV | 8.42 | 1,2,3-TRICHLOROPROPANE |
| 36 | 38.79 | #38.79 | 10135 | 64904 | BV | 9.06 | O-CHLOROTOLUENE |
| 37 | 38.96 | #38.96 | 11706 | 82554 | VB | 9.31 | P-CHLOROTOLUENE |
| 39 | 41.59 | #41.59 | 17202 | 111032 | BV | 9.17 | M-DICHLOROBENZENE |
| 40 | 41.97 | #41.97 | 21474 | 141537 | VB | 10.06 | P-DICHLOROBENZENE |
| 41 | 43.29 | #43.29 | 18764 | 126655 | BB | 9.91 | O-DICHLOROBENZENE |
| 43 | 49.43 | 49.48 | 17160 | 113274 | VV | 8.84 | 1,2,4-TRICHLOROBENZENE |
| 44 | 50.02 | 50.07 | 23120 | 182920 | VB | 9.31 | HEXACHLOROBUTADIENE |
| [illegible] | 51.29 | 51.34 | 14978 | 100486 | BB | 9.62 | 1,2,3-TRICHLOROBENZENE |

Reported on Thu Sep 24, 1992 2:53:42 pm
Report Formatfile: /DATA/FORMAT/CAPHALL.FMT




SAMPLE NAME: 1868450
Resultfile: /CAP/RESULT/P13_268_450.RES
Plot Fields: 3000 - 10000 Instrument - HP5890#13PID

AR303877 220

Sample Name: 1868450
Batch # 92268/A13 Injected on Thu Sep 24, 1992 1:58:15 pm

Instrument: HP5890#13PID Employee #439
Calculation: InternalSTD Quantitation: HeightUnits
Res 'file: /CAP/RESULT/P13_268_450.RES
Mfile: /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 | 6.06 | 6.09 | 7577 | 156965 | VV | 17.63 | VINYL CHLORIDE |
| 9 | 11.00 | 11.02 | 11190 | 124499 | VV | 8.39 | 1,1-DICHLOROETHENE |
| 14 | 14.20 | #14.20 | 34003 | 290626 | VV | 8.50 | TRANS-1,2-DICHLOROETHENE |
| 21 | 18.16 | #18.16 | 22179 | 178855 | VV | 9.63 | CIS-1,2-DICHLOROETHENE |
| 24 | 21.71 | #21.71 | 39687 | 331267 | VV | 8.82 | BENZENE |
| 25 | 22.48 | #22.48 | 57752 | 465976 | VV | 98.69 | SURR-FBENZENE |
| 27 | 23.88 | #23.88 | 27901 | 205233 | VV | 9.49 | TRICHLOROETHENE |
| 32 | 27.17 | #27.17 | 15133 | 98910 | VV | 10.46 | CIS-1,3-DICHLOROPROPENE |
| 34 | 28.31 | #28.31 | 42528 | 305475 | VV | 8.64 | TOLUENE |
| 35 | 28.90 | #28.90 | 15688 | 94211 | VV | 6.98 | TRANS-1,3-DICHLOROPROPENE |
| 38 | 30.59 | #30.59 | 33018 | 232482 | VV | 14.43 | TETRACHLOROETHENE |
| [illegible] | 33.42 | #33.42 | 53117 | 341403 | BV | 8.87 | CHLOROBENZENE |
| 43 | 33.64 | #33.64 | 43310 | 295949 | VV | 9.02 | ETHYLBENZENE |
| 44 | 33.93 | #33.93 | 47633 | 319965 | VV | 8.64 | M-XYLENE |
| 45 | 34.24 | #34.24 | 67485 | 435961 | VV | | ISTD-1CL2FBENZENE |
| 47 | 35.55 | #35.55 | 66467 | 447941 | VV | 9.34 | STYRENE |
| 49 | 36.74 | #36.74 | 33626 | 240288 | VV | 8.99 | CUMENE |
| 52 | 38.18 | #38.18 | 46327 | 301835 | PV | 9.40 | N-PROPYLBENZENE |
| 54 | 38.77 | #38.77 | 44545 | 277726 | VV | 8.80 | O-CHLOROTOLUENE |
| 55 | 38.95 | #38.95 | 54039 | 323621 | VV | 9.13 | P-CHLOROTOLUENE |
| 58 | 40.15 | #40.15 | 44189 | 282945 | VV | 8.97 | 1,2,4-TRIMETHYLBENZENE |
| 60 | 40.80 | #40.80 | 30383 | 214081 | VV | 8.74 | SEC-BUTYLBENZENE |
| 61 | 41.30 | #41.30 | 34425 | 224314 | VV | 9.30 | P-ISOPROPYLTOLUENE |
| 62 | 41.57 | #41.57 | 47318 | 280454 | VV | 8.97 | M-DICHLOROBENZENE |
| 63 | 41.95 | #41.95 | 56448 | 319692 | VV | 9.89 | P-DICHLOROBENZENE |
| 65 | 42.79 | #42.79 | 36208 | 230348 | VV | 8.99 | N-BUTYLBENZENE |
| 66 | 43.28 | #43.28 | 41441 | 250708 | VV | 9.69 | O-DICHLOROBENZENE |
| 84 | 49.42 | 49.47 | 26334 | 156856 | VV | 8.71 | 1,2,4-TRICHLOROBENZENE |
| 85 | 50.00 | 50.05 | 18183 | 128347 | VV | 9.31 | HEXACHLOROBUTADIENE |
| 86 | 50.33 | 50.38 | 31726 | 189204 | VV | 9.68 | NAPHTHALENE |
| 87 | 51.28 | 51.32 | 23545 | 144210 | VV | 9.47 | 1,2,3-TRICHLOROBENZENE |

Internal Standard Range: 51808 - 77712 (Midpoint - 64760)

Using initial calibration files.
Reported on Thu Sep 24, 1992 2:56:36 pm
Report Formatfile: /DATA/FORMAT/CAPPID.FMT

# APPENDIX U

## TREATED EFFLUENT LABORATORY DATA

# Data Package

Tier I Data Package

Analytical Data Report Package
for
Dames & Moore - PA

Project No. 10839-126
Rockwell
Grab Water Samples
Collected on 09/09/92, 09/10/92 by JV
LLI Sample No. 1868474-1868488

Prepared by Julie Fritsch

Reviewed & Approved by Sandra J Patton

Date 10/5/92

Delivery Date 10/28/92

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories, Inc. • 2425 New Holland Pike • Lancaster, PA 17601-5994 717-656-2301 • Fax: 717-656-2681

# Analysis Report

Lancaster Laboratories
Where quality is a science.

10:30:08 356256 REP
ASR000 D 1 1
04083 0

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

LLI Sample No. WW 1882754
Date Reported 10/22/92
Date Submitted 10/19/92
Discard Date 11/ 6/92
Collected 10/16/92 by JV
Time Collected 1330
P.O.
Rel.

Rockwell - Tank Groundwater Sample
Parkerford, PA Proj.No. 10839-126

| RTANK SDG# ANALYSIS | RESULT AS RECEIVED | LIMIT OF QUANTITATION | LAB CODE |
|---|---|---|---|
| Purgeable Halocarbons M601 | attached | | 018221000S* |

1 COPY TO Dames & Moore ATTN: Mike Edelman

Questions? Contact Environmental
Client Services at (717) 656-2301
128 04083 0.00 021000

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

Judy A. Colello, B.S.
Group Leader

AR303881

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **Cal** | (diet) calories | **lb.** | pound(s) |
| **meq** | milliequivalents | **kg** | kilogram(s) |
| **g** | gram(s) | **mg** | milligram(s) |
| **ug** | microgram(s) | **l** | liter(s) |
| **ml** | milliliter(s) | **ul** | microliter(s) |
| **m3** | cubic meter(s) | **fib > 5 um/ml** | fibers greater than 5 microns in length per ml |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **J** | Estimated value |
| **N** | Presumptive evidence of a compound (TIC's only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

**WARRANTY AND LIMITATION OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. We disclaim any other warranties, express or implied, including a Warranty of Fitness for Particular Purpose and Warranty of Merchantability. We accept no responsibilty for the purpose for which the client uses the test results. No purchase order or other order for work shall be accepted by the company with any conditions that vary from our Standard Terms and Conditions. If Lancaster Laboratories performs work requested by the client, conditions at variance to our Standard Terms and Conditions are not part of the contract.

# Analysis Report

Lancaster Laboratories
Where quality is a science.

10:30:09 356256 REP
ASR000 D 1 1
04083 0

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

Rockwell - Tank Groundwater Sample
Parkerford, PA Proj.No. 10839-126

LLI Sample No. WW 1882754
Date Reported 10/22/92
Date Submitted 10/19/92
Discard Date 11/ 6/92
Collected 10/16/92 by JV
Time Collected 1330
P.O.
Rel.

| RTANK SDG# Purgeable Halocarbons M601 | RESULT AS RECEIVED | | LIMIT OF QUANTITATION | LAB CODE |
|---|---|---|---|---|
| Chloromethane | < 5. | ug/l | 5. | 071100000S |
| Bromomethane | < 5. | ug/l | 5. | 071200000S |
| Dichlorodifluoromethane | < 2. | ug/l | 2. | 159000000S |
| Vinyl chloride | < 1. | ug/l | 1. | 071400000S |
| Chloroethane | < 1. | ug/l | 1. | 071500000S |
| Methylene chloride | < 1. | ug/l | 1. | 071600000S |
| Trichlorofluoromethane | < 1. | ug/l | 1. | 158900000S |
| 1,1-Dichloroethene | < 1. | ug/l | 1. | 071700000S |
| 1,1-Dichloroethane | < 1. | ug/l | 1. | 071800000S |
| 1,2-Dichloroethene (cis/trans) | < 1. | ug/l | 1. | 071900000S |
| Chloroform | < 1. | ug/l | 1. | 072000000S |
| 1,2-Dichloroethane | < 1. | ug/l | 1. | 072100000S |
| 1,1,1-Trichloroethane | < 1. | ug/l | 1. | 072200000S |
| Carbon tetrachloride | < 1. | ug/l | 1. | 072300000S |
| Dichlorobromomethane | < 1. | ug/l | 1. | 072400000S |
| 1,2-Dichloropropane | < 1. | ug/l | 1. | 072500000S |
| trans-1,3-Dichloropropene | < 1. | ug/l | 1. | 072600000S |
| Trichloroethene | < 1. | ug/l | 1. | 072700000S |
| Dibromochloromethane | < 1. | ug/l | 1. | 072800000S |
| 1,1,2-Trichloroethane | < 1. | ug/l | 1. | 072900000S |
| cis-1,3-Dichloropropene | < 1. | ug/l | 1. | 073000000S |
| 2-Chloroethylvinyl ether | < 10. | ug/l | 10. | 071300000S |
| Bromoform | < 2. | ug/l | 2. | 073100000S |
| 1,1,2,2-Tetrachloroethane | < 2. | ug/l | 2. | 073200000S |
| Tetrachloroethene | < 1. | ug/l | 1. | 073300000S |
| Chlorobenzene | < 1. | ug/l | 1. | 070500000S |

Under the analytical conditions of EPA methods 601 and 8010, the cis and trans isomers of 1,2-dichloroethene cannot be distinguished from one another. The result reported above represents the total for both isomers.

1 COPY TO Dames & Moore ATTN: Mike Edelman

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

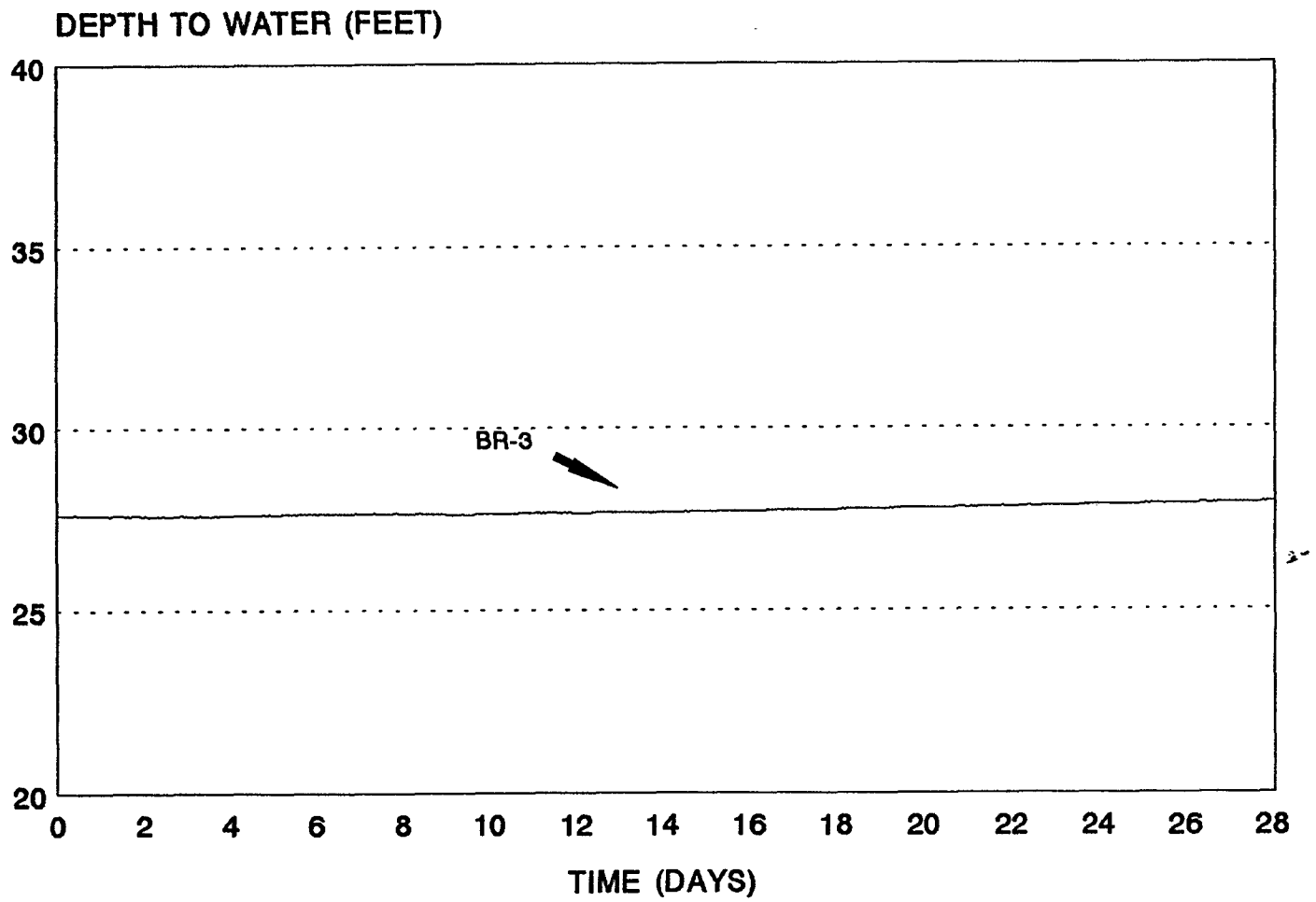
# APPENDIX V

## LONG-TERM WATER LEVEL STUDY HYDROGRAPHS

# LONG TERM MONITORING WELL STUDY

BR-3

07/17/92 - 08/17/92



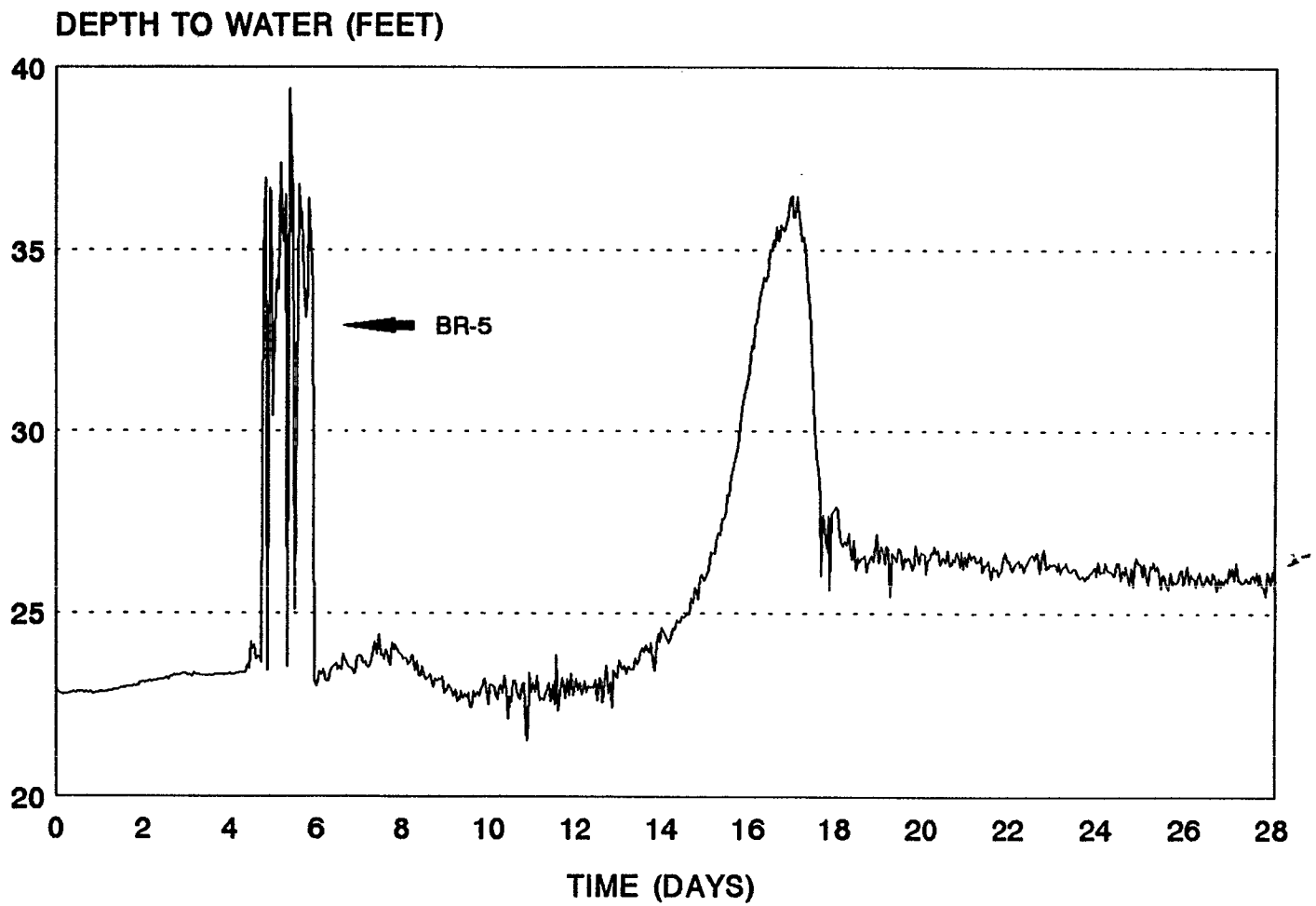

DAMES & MOORE

AR303885

# LONG TERM MONITORING WELL STUDY

BR-5

07/17/92 - 08/17/92



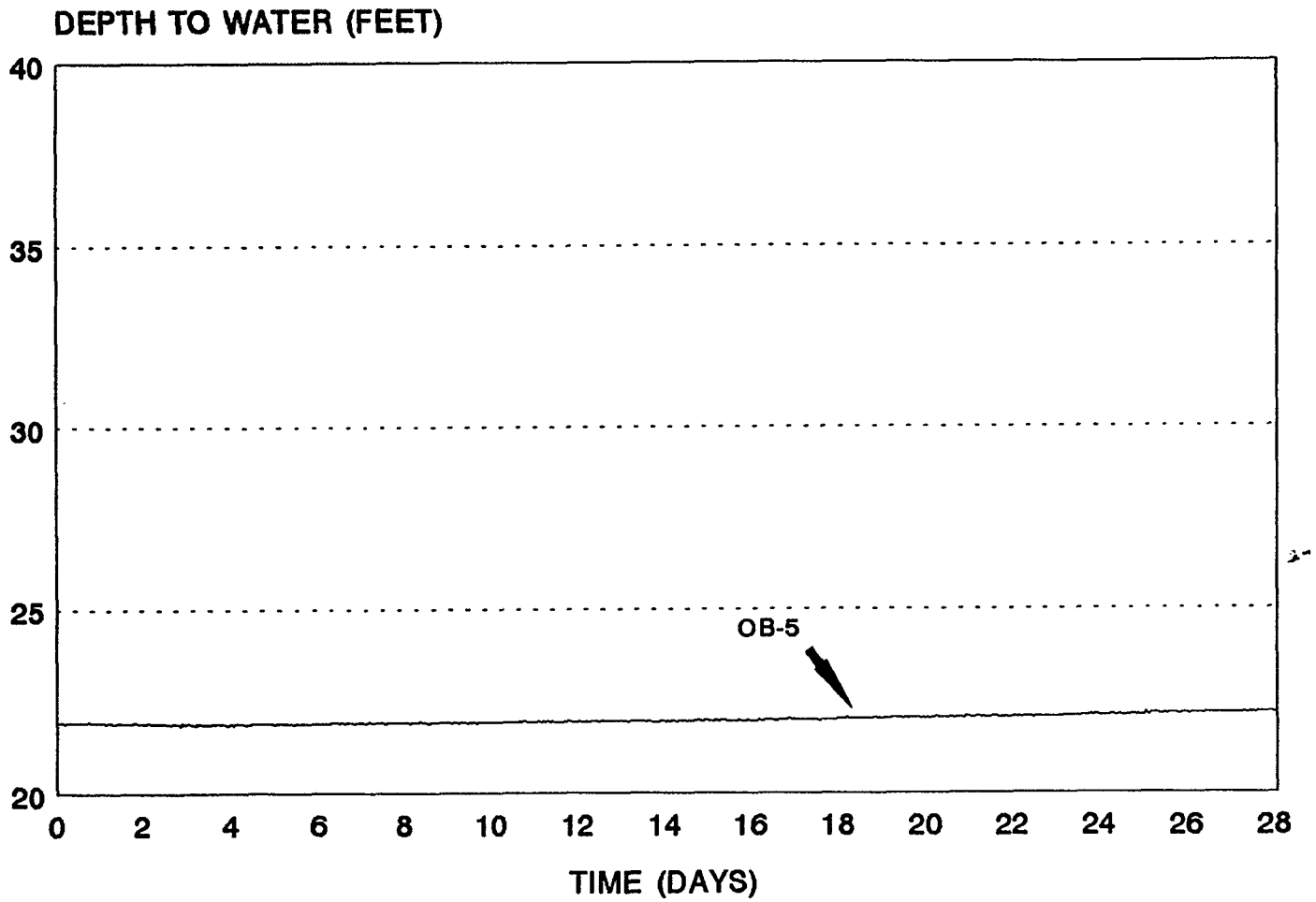

DAMES & MOORE

AR303886

# LONG TERM MONITORING WELL STUDY

OB-5

07/17/92 - 08/17/92



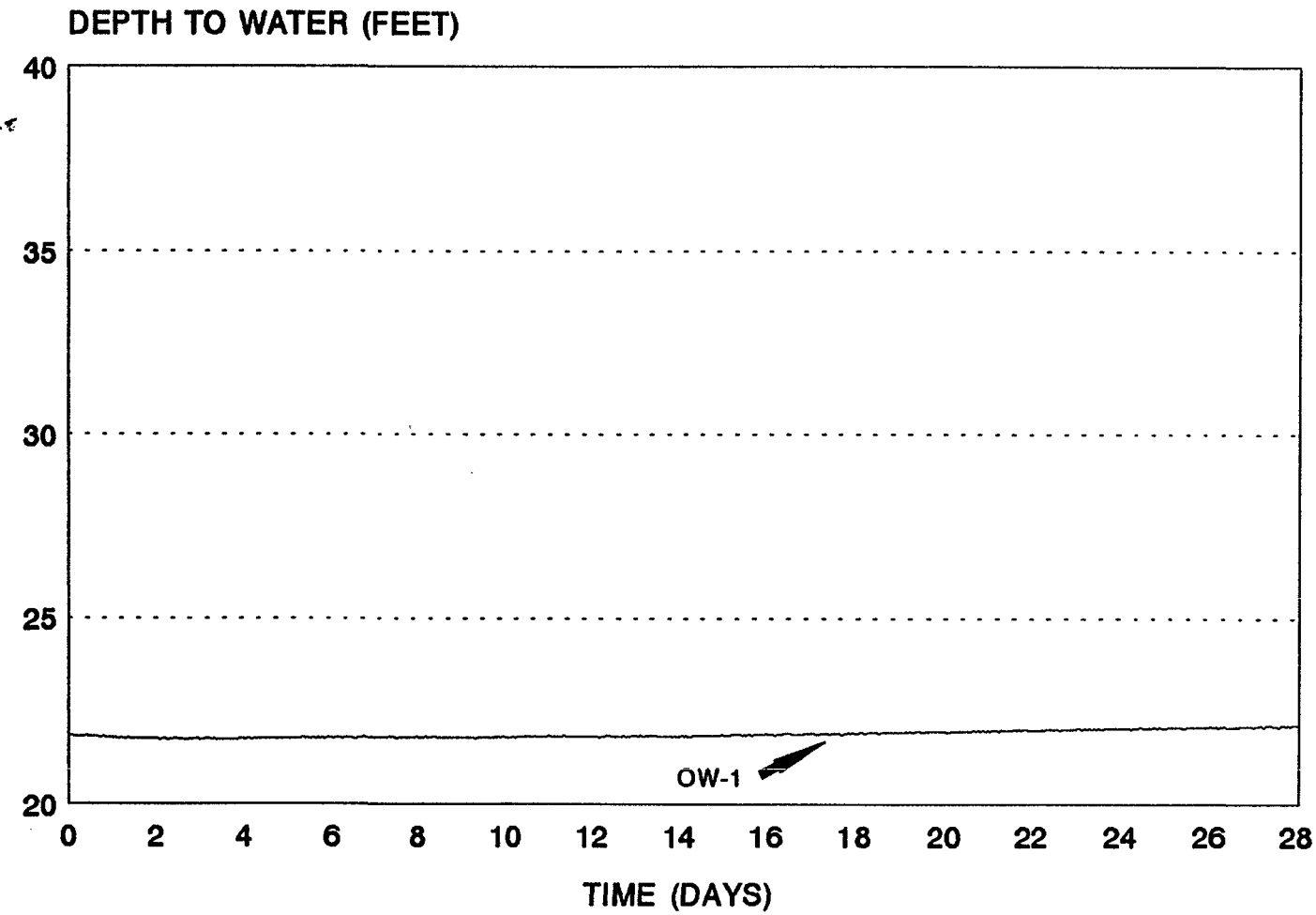

DAMES & MOORE

AR303887

# LONG TERM MONITORING WELL STUDY

OW-1

07/17/92 - 08/17/92




DAMES & MOORE

AR303888

# APPENDIX X

## VERIFICATION SAMPLING ANALYTICAL REPORTS

Lancaster Laboratories
Where quality is a science.

10:30:33 369423
ASR000 D 1 15
04083 0

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

LLI Sample No. WW 1933442
Date Reported 3/ 8/93
Date Submitted 2/22/93
Discard Date 3/23/93
Collected 2/20/93 by ME
Time Collected 1415
P.O.
Rel.

Field Blank Grab Water Sample
Recticon - Allied Steel

| A7-FB SDG# RAS17-14 ANALYSIS | RESULT AS RECEIVED | LIMIT OF QUANTITATION | LAB CODE |
|---|---|---|---|
| CLP Form I - VOA's | attached | | 142100000P* |
| TCL Volatiles (EPA 3/90 SOW) | attached | | 427527000P* |

The GC/MS volatile sample was preserved with 1 + 1 HCl to pH < 2.

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

Questions? Contact Environmental
Client Services at (717) 656-2301
854 04083 0.00 027000

Respectfully Submitted
Lancaster Laboratories, Inc.

Michele McClarin, B.A.
Group Leader, GC/MS Volatiles

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



See reverse side for explanation of symbols and abbreviations

Lancaster Laboratories
Where quality is a science.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A7-FB

Lab Name: LANCASTER LABS Contract: _____.
Lab Code: LANCAS Case No.: _____. SAS No.: _____. SDG No.: _____.
Matrix: (soil/water) WATER Lab Sample ID: 1933442
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: >FFP02
Level: (low/med) LOW Date Received: 02/22/93
% Moisture: not dec. _____ Date Analyzed: 02/25/93
GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

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

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 67-64-1 | Acetone | 7 | J B |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-09-2 | Methylene Chloride | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 78-93-3 | 2-Butanone | 2 | J |
| 67-66-3 | Chloroform | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 108-88-3 | Toluene | 1 | J |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |

FORM I VOA 3/90

Respectfully Submitted
Lancaster Laboratories, Inc.

Michele McClarin, B.A.

Lancaster Laboratories, Inc.
Questions? Contact Environmental
Client Services at (717) 656-2301
717-656-2301
See reverse side for explanation of symbols and abbreviations.
AR303891

Analysis Report

Lancaster Laboratories
Where quality is a science.

10:30:41 369423
ASR000 D 1 15
04083 0

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

LLI Sample No. WW 1933443
Date Reported 3/ 8/93
Date Submitted 2/22/93
Discard Date 3/23/93

Trip Blank Grab Water Sample
Recticon - Allied Steel

Time Collected
P.O.
Rel.

| A7-TB SDG# RAS17-15* ANALYSIS | RESULT AS RECEIVED | LIMIT OF QUANTITATION | LAB CODE |
|---|---|---|---|
| CLP Form I - VOA's | attached | | 142100000P* |
| TCL Volatiles (EPA 3/90 SOW) | attached | | 427527000P* |

The GC/MS volatile sample was preserved with 1 + 1 HCl to pH < 2.

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

Questions? Contact Environmental Client Services at (717) 656-2301
854 04083 0.00 027000

Respectfully Submitted
Lancaster Laboratories, Inc.

Michele McClarin, B.A.
Group Leader, GC/MS Volatiles

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

See reverse side for explanation of symbols and abbreviations

Lancaster Laboratories
Where quality is a science.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A7-TB

Lab Name: LANCASTER LABS Contract: _____.
Lab Code: LANCAS Case No.: _____. SAS No.: _____. SDG No.: _____.
Matrix: (soil/water) WATER Lab Sample ID: 1933443
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: >FFP01
Level: (low/med) LOW Date Received: 02/22/93
% Moisture: not dec. _____ Date Analyzed: 02/25/93
GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 67-64-1 | Acetone | 6 | J B |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-09-2 | Methylene Chloride | 1 | J |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |

FORM I VOA 3/90

Respectfully Submitted
Lancaster Laboratories, Inc.

Michele McClarin, B.A.

Lancaster Laboratories, Inc.
Questions? Contact Environmental Client Services at (717) 656-2301
717-656-2301

See reverse side for explanation of symbols and abbreviations

Analysis Report

Lancaster Laboratories
Where quality is a science.

10:27:08 369423
ASR000 D 1 15
04083 0

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

LLI Sample No. SW 1933429
Date Reported 3/ 8/93
Date Submitted 2/22/93
Discard Date 3/23/93
Collected 2/20/93 by ME
Time Collected 1015
P.O.
Rel.

A/7-1-1 Grab Soil Sample
Recticon - Allied Steel

A7-11 SDG# RAS17-01

| ANALYSIS | RESULT AS RECEIVED | | LIMIT OF QUANTITATION | LAB CODE |
|---|---|---|---|---|
| Moisture | 5.9 | % by wt. | 0.5 | 135301200P* |
| CLP Form I - VOA's | | attached | | 142100000P* |
| TCL Volatiles (EPA 3/90 SOW) | | attached | | 427627000P* |

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

Questions? Contact Environmental
Client Services at (717) 656-2301
854 04083 55.00 033700

Respectfully Submitted
Lancaster Laboratories, Inc.

Michele McClarin, B.A.
Group Leader, GC/MS Volatiles

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

AR303894

See reverse side for explanation of symbols and abbreviations

Analysis Report

Lancaster Laboratories
Where quality is a science.

10:27:08 369423
ASR000 D 1 15
04083 0

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

LLI Sample No. SW 1933429
Date Reported 3/ 8/93
Date Submitted 2/22/93
Discard Date 3/23/93
Collected 2/20/93 by ME
Time Collected 1015
P.O.
Rel.

A/7-1-1 Grab Soil Sample
Recticon - Allied Steel

A7-11 SDG# RAS17-01

| ANALYSIS | RESULT DRY WT. BASIS | | LIMIT OF QUANTITATION | LAB CODE |
|---|---|---|---|---|
| Moisture *AS RECEIVED* | 5.9 | % by wt. | 0.5 | 135304000P* |
| CLP Form I - VOA's | | attached | | 142104000P* |
| TCL Volatiles (EPA 3/90 SOW) | | attached | | 427604000P* |

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

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

Respectfully Submitted
Lancaster Laboratories, Inc.

Michele McClarin, B.A.
Group Leader, GC/MS Volatiles

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

See reverse side for explanation of symbols and abbreviations.

Lancaster Laboratories
Where quality is a science.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A7-11

Lab Name: LANCASTER LABS Contract: _____.
Lab Code: LANCAS Case No.: _____. SAS No.: _____. SDG No.: _____.
Matrix: (soil/water) SOIL Lab Sample ID: 1933429
Sample wt/vol: 5.0 (g/mL) G Lab File ID: >IFN20
Level: (low/med) LOW Date Received: 02/22/93
% Moisture: not dec. 6 Date Analyzed: 02/23/93
GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 11 | U |
| 75-01-4 | Vinyl Chloride | 11 | U |
| 74-83-9 | Bromomethane | 11 | U |
| 75-00-3 | Chloroethane | 11 | U |
| 75-35-4 | 1,1-Dichloroethene | 11 | U |
| 67-64-1 | Acetone | 29 | |
| 75-15-0 | Carbon Disulfide | 11 | U |
| 75-09-2 | Methylene Chloride | 11 | U |
| 75-34-3 | 1,1-Dichloroethane | 11 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 11 | U |
| 78-93-3 | 2-Butanone | 11 | U |
| 67-66-3 | Chloroform | 11 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 11 | U |
| 56-23-5 | Carbon Tetrachloride | 11 | U |
| 71-43-2 | Benzene | 11 | U |
| 107-06-2 | 1,2-Dichloroethane | 11 | U |
| 79-01-6 | Trichloroethene | 11 | U |
| 78-87-5 | 1,2-Dichloropropane | 11 | U |
| 75-27-4 | Bromodichloromethane | 11 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 11 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 11 | U |
| 108-88-3 | Toluene | 11 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 11 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 11 | U |
| 127-18-4 | Tetrachloroethene | 11 | U |
| 591-78-6 | 2-Hexanone | 11 | U |
| 124-48-1 | Dibromochloromethane | 11 | U |
| 108-90-7 | Chlorobenzene | 11 | U |
| 100-41-4 | Ethylbenzene | 11 | U |
| 1330-20-7 | Xylene (total) | 11 | U |
| 100-42-5 | Styrene | 11 | U |
| 75-25-2 | Bromoform | 11 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 11 | U |



Respectfully Submitted
Lancaster Laboratories, Inc.

Michele McClarin, B.A.

Lancaster Laboratories, Inc.
Questions? Contact Environmental Client Services at (717) 656-2301
717-656-2301



See reverse side for explanations of symbols and abbreviations.

Analysis Report

Lancaster Laboratories
Where quality is a science.

10:27:35 369423
ASR000 D 1 15
04083 0

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

LLI Sample No. SW 1933430
Date Reported 3/ 8/93
Date Submitted 2/22/93
Discard Date 3/23/93
Collected 2/20/93 by ME
Time Collected 1103
P.O.
Rel.

A/7-1-2 Grab Soil Sample
Recticon - Allied Steel

A7-12 SDG# RAS17-02

| ANALYSIS | RESULT AS RECEIVED | | LIMIT OF QUANTITATION | LAB CODE |
|---|---|---|---|---|
| Moisture | 5.8 | % by wt. | 0.5 | 135301200P* |
| CLP Form I - VOA's | | attached | | 142100000P* |
| TCL Volatiles (EPA 3/90 SOW) | | attached | | 427627000P* |

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

Questions? Contact Environmental
Client Services at (717) 656-2301
854 04083 15.00 029700

Respectfully Submitted
Lancaster Laboratories, Inc.

Michele McClarin, B.A.
Group Leader, GC/MS Volatiles

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

See reverse side for explanation of codes and abbreviations

Analysis Report

Lancaster Laboratories
Where quality is a science.

10:27:35 369423
ASR000 D 1 15
04083 0

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

LLI Sample No. SW 1933430
Date Reported 3/ 8/93
Date Submitted 2/22/93
Discard Date 3/23/93
Collected 2/20/93 by ME
Time Collected 1103
P.O.
Rel.

A/7-1-2 Grab Soil Sample
Recticon - Allied Steel

A7-12 SDG# RAS17-02

| ANALYSIS | | RESULT DRY WT. BASIS | | LIMIT OF QUANTITATION | LAB CODE |
|---|---|---|---|---|---|
| Moisture | *AS RECEIVED* | 5.8 | % by wt. | 0.5 | 135327000P* |
| CLP Form I - VOA's | | | attached | | 142127000P* |
| TCL Volatiles (EPA 3/90 SOW) | | | attached | | 427627000P* |

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

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

Respectfully Submitted
Lancaster Laboratories, Inc.

Michele McClarin, B.A.
Group Leader, GC/MS Volatiles

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

See reverse side for explanation of symbols and abbreviations

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A7-12

Lab Name: LANCASTER LABS Contract: _____.
Lab Code: LANCAS Case No.: _____. SAS No.: _____. SDG No.: _____.
Matrix: (soil/water) SOIL Lab Sample ID: 1933430
Sample wt/vol: 5.0 (g/mL) G Lab File ID: >IFN23
Level: (low/med) LOW Date Received: 02/22/93
% Moisture: not dec. 6 Date Analyzed: 02/23/93
GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 11 | U |
| 75-01-4 | Vinyl Chloride | 11 | U |
| 74-83-9 | Bromomethane | 11 | U |
| 75-00-3 | Chloroethane | 11 | U |
| 75-35-4 | 1,1-Dichloroethene | 11 | U |
| 67-64-1 | Acetone | 13 | |
| 75-15-0 | Carbon Disulfide | 11 | U |
| 75-09-2 | Methylene Chloride | 11 | U |
| 75-34-3 | 1,1-Dichloroethane | 11 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 11 | U |
| 78-93-3 | 2-Butanone | 11 | U |
| 67-66-3 | Chloroform | 11 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 11 | U |
| 56-23-5 | Carbon Tetrachloride | 11 | U |
| 71-43-2 | Benzene | 11 | U |
| 107-06-2 | 1,2-Dichloroethane | 11 | U |
| 79-01-6 | Trichloroethene | 11 | U |
| 78-87-5 | 1,2-Dichloropropane | 11 | U |
| 75-27-4 | Bromodichloromethane | 11 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 11 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 11 | U |
| 108-88-3 | Toluene | 11 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 11 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 11 | U |
| 127-18-4 | Tetrachloroethene | 11 | U |
| 591-78-6 | 2-Hexanone | 11 | U |
| 124-48-1 | Dibromochloromethane | 11 | U |
| 108-90-7 | Chlorobenzene | 11 | U |
| 100-41-4 | Ethylbenzene | 11 | U |
| 1330-20-7 | Xylene (total) | 11 | U |
| 100-42-5 | Styrene | 11 | U |
| 75-25-2 | Bromoform | 11 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 11 | U |

FORM I VOA 3/90

Respectfully Submitted
Lancaster Laboratories, Inc.

Michele McClarin, B.A.

Lancaster Laboratories, Inc.
Questions? Contact Environmental
Client Services at (717) 656-2301
717-656-2301

See reverse side for explanation of symbols and abbreviations

Lancaster Laboratories
Where quality is a science.

10:27:49 369423
ASR000 D 1 15
04083 0

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

LLI Sample No. SW 1933431
Date Reported 3/ 8/93
Date Submitted 2/22/93
Discard Date 3/23/93
Collected 2/20/93 by ME
Time Collected 1103
P.O.
Rel.

A/7-1-3 Grab Soil Sample
Recticon - Allied Steel

A7-13 SDG# RAS17-03

| ANALYSIS | RESULT AS RECEIVED | | LIMIT OF QUANTITATION | LAB CODE |
|---|---|---|---|---|
| Moisture | 4.6 | % by wt. | 0.5 | 135301200P* |
| CLP Form I - VOA's | | attached | | 142100000P* |
| TCL Volatiles (EPA 3/90 SOW) | | attached | | 427627000P* |

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

Questions? Contact Environmental
Client Services at (717) 656-2301
854 04083 15.00 029700

Respectfully Submitted
Lancaster Laboratories, Inc.

Michele McClarin, B.A.
Group Leader, GC/MS Volatiles

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

See reverse side for explanation of symbols and abbreviations.

Analysis Report

Lancaster Laboratories
Where quality is a science.

10:27:49 369423
ASR000 D 1 15
04083 0

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

LLI Sample No. SW 1933431
Date Reported 3/ 8/93
Date Submitted 2/22/93
Discard Date 3/23/93
Collected 2/20/93 by ME
Time Collected 1103
P.O.
Rel.

A/7-1-3 Grab Soil Sample
Recticon - Allied Steel

A7-13 SDG# RAS17-03

| ANALYSIS | RESULT DRY WT. BASIS | | LIMIT OF QUANTITATION | LAB CODE |
|---|---|---|---|---|
| Moisture *AS RECEIVED* | 4.6 | % by wt. | 0.5 | 135327000P* |
| CLP Form I - VOA's | | attached | | 142127000P* |
| TCL Volatiles (EPA 3/90 SOW) | | attached | | 427627000P* |

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

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

Respectfully Submitted
Lancaster Laboratories, Inc.

Michele McClarin, B.A.
Group Leader, GC/MS Volatiles

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

AR303901

See reverse side for explanation of symbols and abbreviations

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Where quality is a science.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A7-13

Lab Name: LANCASTER LABS Contract: _____.
Lab Code: LANCAS Case No.: _____. SAS No.: _____. SDG No.: _____.
Matrix: (soil/water) SOIL Lab Sample ID: 1933431
Sample wt/vol: 5.0 (g/mL) G Lab File ID: >IFN24
Level: (low/med) LOW Date Received: 02/22/93
% Moisture: not dec. 5 Date Analyzed: 02/23/93
GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 67-64-1 | Acetone | 16 | |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-09-2 | Methylene Chloride | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |

FORM I VOA 3/90

Respectfully Submitted
Lancaster Laboratories, Inc.

Michele McClarin, B.A.

Lancaster Laboratories, Inc.
Questions? Contact Environmental Client Services at (717) 656-2301
717-656-2301
AR303902
See reverse side for explanation of symbols and abbreviations

Lancaster Laboratories
Where quality is a science.

10:28:08 369423
ASR000 D 1 15
04083 0

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

LLI Sample No. SW 1933432
Date Reported 3/ 8/93
Date Submitted 2/22/93
Discard Date 3/23/93
Collected 2/20/93 by ME
Time Collected 1145
P.O.
Rel.

A/7-2-1 Grab Soil Sample
Recticon - Allied Steel

| A7-21 SDG# RAS17-04 ANALYSIS | RESULT AS RECEIVED | | LIMIT OF QUANTITATION | LAB CODE |
|---|---|---|---|---|
| Moisture | 15.1 | % by wt. | 0.5 | 135301200P* |
| CLP Form I - VOA's | | attached | | 142100000P* |
| TCL Volatiles (EPA 3/90 SOW) | | attached | | 427627000P* |

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

Questions? Contact Environmental Client Services at (717) 656-2301
854 04083 15.00 029700

Respectfully Submitted
Lancaster Laboratories, Inc.

Michele McClarin, B.A.
Group Leader, GC/MS Volatiles

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



See reverse side for explanation of symbols and abbreviations

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10:28:08 369423
ASR000 D 1 15
04083 0

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

LLI Sample No. SW 1933432
Date Reported 3/ 8/93
Date Submitted 2/22/93
Discard Date 3/23/93
Collected 2/20/93 by ME
Time Collected 1145
P.O.
Rel.

A/7-2-1 Grab Soil Sample
Recticon - Allied Steel

A7-21 SDG# RAS17-04

| ANALYSIS | | RESULT DRY WT. BASIS | | LIMIT OF QUANTITATION | LAB CODE |
|---|---|---|---|---|---|
| Moisture | *AS RECEIVED* | 15.1 | % by wt. | 0.5 | 135327000P* |
| CLP Form I - VOA's | | | attached | | 142127000P* |
| TCL Volatiles (EPA 3/90 SOW) | | | attached | | 427627000P* |

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

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

Respectfully Submitted
Lancaster Laboratories, Inc.

Michele McClarin, B.A.
Group Leader, GC/MS Volatiles

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



See reverse side for explanation of symbols and abbreviations

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IA

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A7-21

Lab Name: LANCASTER LABS Contract: _____.
Lab Code: LANCAS Case No.: _____. SAS No.: _____. SDG No.: _____.
Matrix: (soil/water) SOIL Lab Sample ID: 1933432
Sample wt/vol: 5.0 (g/mL) G Lab File ID: >IFN25
Level: (low/med) LOW Date Received: 02/22/93
% Moisture: not dec. 15 Date Analyzed: 02/23/93
GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

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

| CAS NO. | COMPOUND | (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 12 | U |
| 75-01-4 | Vinyl Chloride | 12 | U |
| 74-83-9 | Bromomethane | 12 | U |
| 75-00-3 | Chloroethane | 12 | U |
| 75-35-4 | 1,1-Dichloroethene | 12 | U |
| 67-64-1 | Acetone | 11 | J |
| 75-15-0 | Carbon Disulfide | 12 | U |
| 75-09-2 | Methylene Chloride | 12 | U |
| 75-34-3 | 1,1-Dichloroethane | 12 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 12 | U |
| 78-93-3 | 2-Butanone | 12 | U |
| 67-66-3 | Chloroform | 12 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 12 | U |
| 56-23-5 | Carbon Tetrachloride | 12 | U |
| 71-43-2 | Benzene | 12 | U |
| 107-06-2 | 1,2-Dichloroethane | 12 | U |
| 79-01-6 | Trichloroethene | 12 | U |
| 78-87-5 | 1,2-Dichloropropane | 12 | U |
| 75-27-4 | Bromodichloromethane | 12 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 12 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 12 | U |
| 108-88-3 | Toluene | 12 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 12 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 12 | U |
| 127-18-4 | Tetrachloroethene | 12 | U |
| 591-78-6 | 2-Hexanone | 12 | U |
| 124-48-1 | Dibromochloromethane | 12 | U |
| 108-90-7 | Chlorobenzene | 12 | U |
| 100-41-4 | Ethylbenzene | 12 | U |
| 1330-20-7 | Xylene (total) | 12 | U |
| 100-42-5 | Styrene | 12 | U |
| 75-25-2 | Bromoform | 12 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 12 | U |

FORM I VOA 3/90

Respectfully Submitted
Lancaster Laboratories, Inc.

Michele McClarin, B.A.

Lancaster Laboratories, Inc.
Questions? Contact Environmental Client Services at (717) 656-2301
717-656-2301
See reverse side for explanation of symbols and abbreviations

Analysis Report

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10:28:21 369423
ASR000 D 1 15
04083 0

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

LLI Sample No. SW 1933433
Date Reported 3/ 8/93
Date Submitted 2/22/93
Discard Date 3/23/93
Collected 2/20/93 by ME
Time Collected 1200
P.O.
Rel.

A/7-2-2 Grab Soil Sample
Recticon - Allied Steel

A7-22 SDG# RAS17-05

| ANALYSIS | RESULT AS RECEIVED | | LIMIT OF QUANTITATION | LAB CODE |
|---|---|---|---|---|
| Moisture | 5.6 | % by wt. | 0.5 | 135301200P* |
| CLP Form I - VOA's | | attached | | 142100000P* |
| TCL Volatiles (EPA 3/90 SOW) | | attached | | 427627000P* |

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

Questions? Contact Environmental Client Services at (717) 656-2301
854 04083 15.00 029700

Respectfully Submitted
Lancaster Laboratories, Inc.

Michele McClarin, B.A.
Group Leader, GC/MS Volatiles

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



See reverse side for explanation of symbols and abbreviations

Analysis Report

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10:28:21 369423
ASR000 D 1 15
04083 0

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

LLI Sample No. SW 1933433
Date Reported 3/ 8/93
Date Submitted 2/22/93
Discard Date 3/23/93
Collected 2/20/93 by ME
Time Collected 1200
P.O.
Rel.

A/7-2-2 Grab Soil Sample
Recticon - Allied Steel

A7-22 SDG# RAS17-05

| ANALYSIS | RESULT DRY WT. BASIS | | LIMIT OF QUANTITATION | LAB CODE |
|---|---|---|---|---|
| Moisture *AS RECEIVED* | 5.6 | % by wt. | 0.5 | 135327000P* |
| CLP Form I - VOA's | | attached | | 142127000P* |
| TCL Volatiles (EPA 3/90 SOW) | | attached | | 427627000P* |

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

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

Respectfully Submitted
Lancaster Laboratories, Inc.

Michele McClarin, B.A.
Group Leader, GC/MS Volatiles

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



See reverse side for explanation of symbols and abbreviations

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A7-22

Lab Name: LANCASTER LABS Contract: _____.
Lab Code: LANCAS Case No.: _____. SAS No.: _____. SDG No.: _____.
Matrix: (soil/water) SOIL Lab Sample ID: 1933433
Sample wt/vol: 5.0 (g/mL) G Lab File ID: >IFN26
Level: (low/med) LOW Date Received: 02/22/93
% Moisture: not dec. 6 Date Analyzed: 02/23/93
GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

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

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 11 | U |
| 75-01-4 | Vinyl Chloride | 11 | U |
| 74-83-9 | Bromomethane | 11 | U |
| 75-00-3 | Chloroethane | 11 | U |
| 75-35-4 | 1,1-Dichloroethene | 11 | U |
| 67-64-1 | Acetone | 15 | |
| 75-15-0 | Carbon Disulfide | 11 | U |
| 75-09-2 | Methylene Chloride | 11 | U |
| 75-34-3 | 1,1-Dichloroethane | 11 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 11 | U |
| 78-93-3 | 2-Butanone | 11 | U |
| 67-66-3 | Chloroform | 11 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 11 | U |
| 56-23-5 | Carbon Tetrachloride | 11 | U |
| 71-43-2 | Benzene | 11 | U |
| 107-06-2 | 1,2-Dichloroethane | 11 | U |
| 79-01-6 | Trichloroethene | 11 | U |
| 78-87-5 | 1,2-Dichloropropane | 11 | U |
| 75-27-4 | Bromodichloromethane | 11 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 11 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 11 | U |
| 108-88-3 | Toluene | 11 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 11 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 11 | U |
| 127-18-4 | Tetrachloroethene | 11 | U |
| 591-78-6 | 2-Hexanone | 11 | U |
| 124-48-1 | Dibromochloromethane | 11 | U |
| 108-90-7 | Chlorobenzene | 11 | U |
| 100-41-4 | Ethylbenzene | 11 | U |
| 1330-20-7 | Xylene (total) | 11 | U |
| 100-42-5 | Styrene | 11 | U |
| 75-25-2 | Bromoform | 11 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 11 | U |

FORM I VOA 3/90

Respectfully Submitted
Lancaster Laboratories, Inc.

Michele McClarin, B.A.

Lancaster Laboratories, Inc.
Questions? Contact Environmental Client Services at (717) 656-2301
717-656-2301
See reverse side for explanation of symbols and abbreviations
AR303908

Lancaster Laboratories
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10:28:34 369423
ASR000 D 1 15
04083 0

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

LLI Sample No. SW 1933434
Date Reported 3/ 8/93
Date Submitted 2/22/93
Discard Date 3/23/93
Collected 2/20/93 by ME
Time Collected 1330
P.O.
Rel.

A/7-3-1 Grab Soil Sample
Recticon - Allied Steel

| A7-31 SDG# RAS17-06 ANALYSIS | RESULT AS RECEIVED | | LIMIT OF QUANTITATION | LAB CODE |
|---|---|---|---|---|
| Moisture | 14.8 | % by wt. | 0.5 | 135301200P* |
| CLP Form I - VOA's | | attached | | 142100000P* |
| TCL Volatiles (EPA 3/90 SOW) | | attached | | 427627000P* |

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

Questions? Contact Environmental
Client Services at (717) 656-2301
854 04083 15.00 029700

Respectfully Submitted
Lancaster Laboratories, Inc.

Michele McClarin, B.A.
Group Leader, GC/MS Volatiles

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

See reverse side for explanation of symbols and abbreviations

Analysis Report

Lancaster Laboratories
Where quality is a science.

10:28:34 369423
ASR000 D 1 15
04083 0

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

LLI Sample No. SW 1933434
Date Reported 3/ 8/93
Date Submitted 2/22/93
Discard Date 3/23/93
Collected 2/20/93 by ME
Time Collected 1330
P.O.
Rel.

A/7-3-1 Grab Soil Sample
Recticon - Allied Steel

A7-31 SDG# RAS17-06

| ANALYSIS | | RESULT DRY WT. BASIS | | LIMIT OF QUANTITATION | LAB CODE |
|---|---|---|---|---|---|
| Moisture | *AS RECEIVED* | 14.8 | % by wt. | 0.5 | 135327000P* |
| CLP Form I - VOA's | | | attached | | 142127000P* |
| TCL Volatiles (EPA 3/90 SOW) | | | attached | | 427627000P* |

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

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

Respectfully Submitted
Lancaster Laboratories, Inc.

Michele McClarin, B.A.
Group Leader, GC/MS Volatiles

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

AR303910

See reverse side for explanation of symbols and abbreviations

*2
91

Lancaster Laboratories
Where quality is a science.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A7-31

Lab Name: LANCASTER LABS Contract: _____.
Lab Code: LANCAS Case No.: _____. SAS No.: _____. SDG No.: _____.
Matrix: (soil/water) SOIL Lab Sample ID: 1933434
Sample wt/vol: 5.0 (g/mL) G Lab File ID: >IFN27
Level: (low/med) LOW Date Received: 02/22/93
% Moisture: not dec. 15 Date Analyzed: 02/23/93
GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 12 | U |
| 75-01-4 | Vinyl Chloride | 12 | U |
| 74-83-9 | Bromomethane | 12 | U |
| 75-00-3 | Chloroethane | 12 | U |
| 75-35-4 | 1,1-Dichloroethene | 12 | U |
| 67-64-1 | Acetone | 15 | |
| 75-15-0 | Carbon Disulfide | 12 | U |
| 75-09-2 | Methylene Chloride | 2 | J |
| 75-34-3 | 1,1-Dichloroethane | 12 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 12 | U |
| 78-93-3 | 2-Butanone | 12 | U |
| 67-66-3 | Chloroform | 12 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 12 | U |
| 56-23-5 | Carbon Tetrachloride | 12 | U |
| 71-43-2 | Benzene | 12 | U |
| 107-06-2 | 1,2-Dichloroethane | 12 | U |
| 79-01-6 | Trichloroethene | 12 | U |
| 78-87-5 | 1,2-Dichloropropane | 12 | U |
| 75-27-4 | Bromodichloromethane | 12 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 12 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 12 | U |
| 108-88-3 | Toluene | 12 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 12 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 12 | U |
| 127-18-4 | Tetrachloroethene | 12 | U |
| 591-78-6 | 2-Hexanone | 12 | U |
| 124-48-1 | Dibromochloromethane | 12 | U |
| 108-90-7 | Chlorobenzene | 12 | U |
| 100-41-4 | Ethylbenzene | 12 | U |
| 1330-20-7 | Xylene (total) | 12 | U |
| 100-42-5 | Styrene | 12 | U |
| 75-25-2 | Bromoform | 12 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 12 | U |

FORM I VOA 3/90

Respectfully Submitted
Lancaster Laboratories, Inc.

Michele McClarin, B.A.

Lancaster Laboratories
Where quality is a science.

10:28:45 369423
ASR000 D 1 15
04083 0

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

LLI Sample No. SW 1933435
Date Reported 3/ 8/93
Date Submitted 2/22/93
Discard Date 3/23/93
Collected 2/20/93 by ME
Time Collected 1350
P.O.
Rel.

A/7-3-2 Grab Soil Sample
Recticon - Allied Steel

A7-32 SDG# RAS17-07

| ANALYSIS | RESULT AS RECEIVED | | LIMIT OF QUANTITATION | LAB CODE |
|---|---|---|---|---|
| Moisture | 6.4 | % by wt. | 0.5 | 135301200P* |
| CLP Form I - VOA's | | attached | | 142100000P* |
| TCL Volatiles (EPA 3/90 SOW) | | attached | | 427627000P* |

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

Questions? Contact Environmental Client Services at (717) 656-2301
854 04083 15.00 029700

Respectfully Submitted
Lancaster Laboratories, Inc.

Michele McClarin, B.A.
Group Leader, GC/MS Volatiles

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

AR303912

See back side for explanation of symbols and abbreviations.

Lancaster Laboratories
Where quality is a science.

10:28:45 369423
ASR000 D 1 15
04083 0

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

LLI Sample No. SW 1933435
Date Reported 3/ 8/93
Date Submitted 2/22/93
Discard Date 3/23/93
Collected 2/20/93 by ME
Time Collected 1350
P.O.
Rel.

A/7-3-2 Grab Soil Sample
Recticon - Allied Steel

A7-32 SDG# RAS17-07

| ANALYSIS | RESULT DRY WT. BASIS | | LIMIT OF QUANTITATION | LAB CODE |
|---|---|---|---|---|
| Moisture *AS RECEIVED* | 6.4 | % by wt. | 0.5 | 135327000P* |
| CLP Form I - VOA's | | attached | | 142127000P* |
| TCL Volatiles (EPA 3/90 SOW) | | attached | | 427627000P* |

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

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

Respectfully Submitted
Lancaster Laboratories, Inc.

Michele McClarin, B.A.
Group Leader, GC/MS Volatiles

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

AR303913

See reverse side for explanation of symbols and abbreviations

Lancaster Laboratories
Where quality is a science.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A7-32

Lab Name: LANCASTER LABS Contract: _____.
Lab Code: LANCAS Case No.: _____. SAS No.: _____. SDG No.: _____.
Matrix: (soil/water) SOIL Lab Sample ID: 1933435
Sample wt/vol: 5.0 (g/mL) G Lab File ID: >IFN28
Level: (low/med) LOW Date Received: 02/22/93
% Moisture: not dec. 6 Date Analyzed: 02/23/93
GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 11 | U |
| 75-01-4 | Vinyl Chloride | 11 | U |
| 74-83-9 | Bromomethane | 11 | U |
| 75-00-3 | Chloroethane | 11 | U |
| 75-35-4 | 1,1-Dichloroethene | 11 | U |
| 67-64-1 | Acetone | 16 | |
| 75-15-0 | Carbon Disulfide | 11 | U |
| 75-09-2 | Methylene Chloride | 11 | U |
| 75-34-3 | 1,1-Dichloroethane | 11 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 11 | U |
| 78-93-3 | 2-Butanone | 11 | U |
| 67-66-3 | Chloroform | 11 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 11 | U |
| 56-23-5 | Carbon Tetrachloride | 11 | U |
| 71-43-2 | Benzene | 11 | U |
| 107-06-2 | 1,2-Dichloroethane | 11 | U |
| 79-01-6 | Trichloroethene | 11 | U |
| 78-87-5 | 1,2-Dichloropropane | 11 | U |
| 75-27-4 | Bromodichloromethane | 11 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 11 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 11 | U |
| 108-88-3 | Toluene | 11 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 11 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 11 | U |
| 127-18-4 | Tetrachloroethene | 11 | U |
| 591-78-6 | 2-Hexanone | 11 | U |
| 124-48-1 | Dibromochloromethane | 11 | U |
| 108-90-7 | Chlorobenzene | 11 | U |
| 100-41-4 | Ethylbenzene | 11 | U |
| 1330-20-7 | Xylene (total) | 11 | U |
| 100-42-5 | Styrene | 11 | U |
| 75-25-2 | Bromoform | 11 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 11 | U |

FORM I VOA 3/90

Respectfully Submitted
Lancaster Laboratories, Inc.

Michele McClarin, B.A.

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

See reverse side for explanation of symbols and abbreviations

Analysis Report

Lancaster Laboratories
Where quality is a science.

10:28:58 369423
ASR000 D 1 15
04083 0

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

LLI Sample No. SW 1933436
Date Reported 3/ 8/93
Date Submitted 2/22/93
Discard Date 3/23/93
Collected 2/20/93 by ME
Time Collected 1400
P.O.
Rel.

A/7-3-3 Grab Soil Sample
Recticon - Allied Steel

| A7-33 SDG# RAS17-08 ANALYSIS | RESULT AS RECEIVED | | LIMIT OF QUANTITATION | LAB CODE |
|---|---|---|---|---|
| Moisture | 7.9 | % by wt. | 0.5 | 135301200P* |
| CLP Form I - VOA's | | attached | | 142100000P* |
| TCL Volatiles (EPA 3/90 SOW) | | attached | | 427627000P* |

Acetone was detected in the solid matrix method blank at a concentration of 22. ug/kg. The blank value was not subtracted from the analytical result.

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

Questions? Contact Environmental Client Services at (717) 656-2301
854 04083 15.00 029700

Respectfully Submitted
Lancaster Laboratories, Inc.

Michele McClarin, B.A.
Group Leader, GC/MS Volatiles

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

AR303915

See reverse side for explanation of symbols and abbreviations

Lancaster Laboratories
Where quality is a science.

10:28:58 369423
ASR000 D 1 15
04083 0

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

LLI Sample No. SW 1933436
Date Reported 3/ 8/93
Date Submitted 2/22/93
Discard Date 3/23/93
Collected 2/20/93 by ME
Time Collected 1400
P.O.
Rel.

A/7-3-3 Grab Soil Sample
Recticon - Allied Steel

A7-33 SDG# RAS17-08

| ANALYSIS | RESULT DRY WT. BASIS | | LIMIT OF QUANTITATION | LAB CODE |
|---|---|---|---|---|
| Moisture *AS RECEIVED* | 7.9 | % by wt. | 0.5 | 135327000P* |
| CLP Form I - VOA's | | attached | | 142127000P* |
| TCL Volatiles (EPA 3/90 SOW) | | attached | | 427627000P* |

Acetone was detected in the solid matrix method blank at a concentration of 22. ug/kg. The blank value was not subtracted from the analytical result.

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

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Respectfully Submitted
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Michele McClarin, B.A.
Group Leader, GC/MS Volatiles

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



See reverse side for explanation of symbols and abbreviations

Lancaster Laboratories
Where quality is a science.

IA

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A7-33

Lab Name: LANCASTER LABS Contract: _____.
Lab Code: LANCAS Case No.: _____. SAS No.: _____. SDG No.: _____.
Matrix: (soil/water) SOIL Lab Sample ID: 1933436
Sample wt/vol: 5.0 (g/mL) G Lab File ID: >IFP01
Level: (low/med) LOW Date Received: 02/22/93
% Moisture: not dec. 8 Date Analyzed: 02/25/93
GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 11 | U |
| 75-01-4 | Vinyl Chloride | 11 | U |
| 74-83-9 | Bromomethane | 11 | U |
| 75-00-3 | Chloroethane | 11 | U |
| 75-35-4 | 1,1-Dichloroethene | 11 | U |
| 67-64-1 | Acetone | 34 | B |
| 75-15-0 | Carbon Disulfide | 11 | U |
| 75-09-2 | Methylene Chloride | 2 | J |
| 75-34-3 | 1,1-Dichloroethane | 11 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 11 | U |
| 78-93-3 | 2-Butanone | 11 | U |
| 67-66-3 | Chloroform | 11 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 11 | U |
| 56-23-5 | Carbon Tetrachloride | 11 | U |
| 71-43-2 | Benzene | 11 | U |
| 107-06-2 | 1,2-Dichloroethane | 11 | U |
| 79-01-6 | Trichloroethene | 11 | U |
| 78-87-5 | 1,2-Dichloropropane | 11 | U |
| 75-27-4 | Bromodichloromethane | 11 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 11 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 11 | U |
| 108-88-3 | Toluene | 11 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 11 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 11 | U |
| 127-18-4 | Tetrachloroethene | 11 | U |
| 591-78-6 | 2-Hexanone | 11 | U |
| 124-48-1 | Dibromochloromethane | 11 | U |
| 108-90-7 | Chlorobenzene | 11 | U |
| 100-41-4 | Ethylbenzene | 11 | U |
| 1330-20-7 | Xylene (total) | 11 | U |
| 100-42-5 | Styrene | 11 | U |
| 75-25-2 | Bromoform | 11 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 11 | U |

FORM I VOA 3/90

Respectfully Submitted
Lancaster Laboratories, Inc.

Michele McClarin, B.A.

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

Lancaster Laboratories, Inc.
717-656-2301
See reverse side for definitions/symbols and abbreviations
AR303917

Lancaster Laboratories
Where quality is a science.

10:29:19 369423
ASR000 D 1 15
04083 0

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

LLI Sample No. SW 1933437
Date Reported 3/ 8/93
Date Submitted 2/22/93
Discard Date 3/23/93
Collected 2/20/93 by ME
Time Collected 1415
P.O.
Rel.

A/7-3-4 Grab Soil Sample
Recticon - Allied Steel

| A7-34 SDG# RAS17-09 ANALYSIS | RESULT AS RECEIVED | | LIMIT OF QUANTITATION | LAB CODE |
|---|---|---|---|---|
| Moisture | 6.5 | % by wt. | 0.5 | 135301200P* |
| CLP Form I - VOA's | | attached | | 142100000P* |
| TCL Volatiles (EPA 3/90 SOW) | | attached | | 427627000P* |

Acetone was detected in the solid matrix method blank at a concentration of 22. ug/kg. The blank value was not subtracted from the analytical result.

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

Questions? Contact Environmental Client Services at (717) 656-2301
854 04083 15.00 029700

Respectfully Submitted
Lancaster Laboratories, Inc.

Michele McClarin, B.A.
Group Leader, GC/MS Volatiles

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



See reverse side for explanation of symbols and abbreviations.

Analysis Report

Lancaster Laboratories
Where quality is a science.

10:29:19 369423
ASR000 D 1 15
04083 0

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

LLI Sample No. SW 1933437
Date Reported 3/ 8/93
Date Submitted 2/22/93
Discard Date 3/23/93
Collected 2/20/93 by ME
Time Collected 1415
P.O.
Rel.

A/7-3-4 Grab Soil Sample
Recticon - Allied Steel

| A7-34 SDG# RAS17-09 ANALYSIS | RESULT DRY WT. BASIS | | LIMIT OF QUANTITATION | LAB CODE |
|---|---|---|---|---|
| Moisture *AS RECEIVED* | 6.5 | % by wt. | 0.5 | 135327000P* |
| CLP Form I - VOA's | | attached | | 142127000P* |
| TCL Volatiles (EPA 3/90 SOW) | | attached | | 427627000P* |

Acetone was detected in the solid matrix method blank at a concentration of 22. ug/kg. The blank value was not subtracted from the analytical result.

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Respectfully Submitted
Lancaster Laboratories, Inc.

Michele McClarin, B.A.
Group Leader, GC/MS Volatiles

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

AR303919

See reverse side for explanation of symbols and abbreviations

Lancaster Laboratories
Where quality is a science.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A7-34

Lab Name: LANCASTER LABS Contract: _____.
Lab Code: LANCAS Case No.: _____. SAS No.: _____. SDG No.: _____.
Matrix: (soil/water) SOIL Lab Sample ID: 1933437
Sample wt/vol: 5.0 (g/mL) G Lab File ID: >IFP02
Level: (low/med) LOW Date Received: 02/22/93
% Moisture: not dec. 6 Date Analyzed: 02/25/93
GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 11 | U |
| 75-01-4 | Vinyl Chloride | 11 | U |
| 74-83-9 | Bromomethane | 11 | U |
| 75-00-3 | Chloroethane | 11 | U |
| 75-35-4 | 1,1-Dichloroethene | 11 | U |
| 67-64-1 | Acetone | 29 | B |
| 75-15-0 | Carbon Disulfide | 11 | U |
| 75-09-2 | Methylene Chloride | 1 | J |
| 75-34-3 | 1,1-Dichloroethane | 11 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 11 | U |
| 78-93-3 | 2-Butanone | 11 | U |
| 67-66-3 | Chloroform | 11 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 11 | U |
| 56-23-5 | Carbon Tetrachloride | 11 | U |
| 71-43-2 | Benzene | 11 | U |
| 107-06-2 | 1,2-Dichloroethane | 11 | U |
| 79-01-6 | Trichloroethene | 11 | U |
| 78-87-5 | 1,2-Dichloropropane | 11 | U |
| 75-27-4 | Bromodichloromethane | 11 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 11 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 11 | U |
| 108-88-3 | Toluene | 11 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 11 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 11 | U |
| 127-18-4 | Tetrachloroethene | 11 | U |
| 591-78-6 | 2-Hexanone | 11 | U |
| 124-48-1 | Dibromochloromethane | 11 | U |
| 108-90-7 | Chlorobenzene | 11 | U |
| 100-41-4 | Ethylbenzene | 11 | U |
| 1330-20-7 | Xylene (total) | 11 | U |
| 100-42-5 | Styrene | 11 | U |
| 75-25-2 | Bromoform | 11 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 11 | U |

FORM I VOA 3/90

Respectfully Submitted
Lancaster Laboratories, Inc.

Michele McClarin, B.A.

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

Lancaster Laboratories
Where quality is a science.

10:29:39 369423
ASR000 D 1 15
04083 0

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

LLI Sample No. SW 1933438
Date Reported 3/ 8/93
Date Submitted 2/22/93
Discard Date 3/23/93
Collected 2/20/93 by ME
Time Collected 1515
P.O.
Rel.

A/7-4-1 Grab Soil Sample
Recticon - Allied Steel

| A7-41 SDG# RAS17-10 ANALYSIS | RESULT AS RECEIVED | | LIMIT OF QUANTITATION | LAB CODE |
|---|---|---|---|---|
| Moisture | 5.9 | % by wt. | 0.5 | 135301200P* |
| CLP Form I - VOA's | | attached | | 142100000P* |
| TCL Volatiles (EPA 3/90 SOW) | | attached | | 427627000P* |

Acetone was detected in the solid matrix method blank at a concentration of 22. ug/kg. The blank value was not subtracted from the analytical result.

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

Questions? Contact Environmental Client Services at (717) 656-2301
854 04083 15.00 029700

Respectfully Submitted
Lancaster Laboratories, Inc.

Michele McClarin, B.A.
Group Leader, GC/MS Volatiles

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

AR303921

See reverse side for explanation of symbols and abbreviations

Lancaster Laboratories
Where quality is a science.

10:29:39 369423
ASR000 D 1 15
04083 0

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

LLI Sample No. SW 1933438
Date Reported 3/ 8/93
Date Submitted 2/22/93
Discard Date 3/23/93
Collected 2/20/93 by ME
Time Collected 1515
P.O.
Rel.

A/7-4-1 Grab Soil Sample
Recticon - Allied Steel

A7-41 SDG# RAS17-10

| ANALYSIS | RESULT DRY WT. BASIS | | LIMIT OF QUANTITATION | LAB CODE |
|---|---|---|---|---|
| Moisture *AS RECEIVED* | 5.9 | % by wt. | 0.5 | 135327000P* |
| CLP Form I - VOA's | | attached | | 142127000P* |
| TCL Volatiles (EPA 3/90 SOW) | | attached | | 427627000P* |

Acetone was detected in the solid matrix method blank at a concentration of 22. ug/kg. The blank value was not subtracted from the analytical result.

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

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

Respectfully Submitted
Lancaster Laboratories, Inc.

Michele McClarin, B.A.
Group Leader, GC/MS Volatiles

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



See reverse side for explanation of symbols and abbreviations

Lancaster Laboratories
Where quality is a science.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A7-41

Lab Name: LANCASTER LABS Contract: _____.
Lab Code: LANCAS Case No.: _____. SAS No.: _____. SDG No.: _____.
Matrix: (soil/water) SOIL Lab Sample ID: 1933438
Sample wt/vol: 5.0 (g/mL) G Lab File ID: >IFP03
Level: (low/med) LOW Date Received: 02/22/93
% Moisture: not dec. 6 Date Analyzed: 02/25/93
GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

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

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 11 | U |
| 75-01-4 | Vinyl Chloride | 11 | U |
| 74-83-9 | Bromomethane | 11 | U |
| 75-00-3 | Chloroethane | 11 | U |
| 75-35-4 | 1,1-Dichloroethene | 11 | U |
| 67-64-1 | Acetone | 21 | B |
| 75-15-0 | Carbon Disulfide | 1 | J B |
| 75-09-2 | Methylene Chloride | 11 | U |
| 75-34-3 | 1,1-Dichloroethane | 11 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 11 | U |
| 78-93-3 | 2-Butanone | 11 | U |
| 67-66-3 | Chloroform | 11 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 11 | U |
| 56-23-5 | Carbon Tetrachloride | 11 | U |
| 71-43-2 | Benzene | 11 | U |
| 107-06-2 | 1,2-Dichloroethane | 11 | U |
| 79-01-6 | Trichloroethene | 11 | U |
| 78-87-5 | 1,2-Dichloropropane | 11 | U |
| 75-27-4 | Bromodichloromethane | 11 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 11 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 11 | U |
| 108-88-3 | Toluene | 11 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 11 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 11 | U |
| 127-18-4 | Tetrachloroethene | 11 | U |
| 591-78-6 | 2-Hexanone | 11 | U |
| 124-48-1 | Dibromochloromethane | 11 | U |
| 108-90-7 | Chlorobenzene | 11 | U |
| 100-41-4 | Ethylbenzene | 11 | U |
| 1330-20-7 | Xylene (total) | 11 | U |
| 100-42-5 | Styrene | 11 | U |
| 75-25-2 | Bromoform | 11 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 11 | U |

FORM I VOA 3/90

Respectfully Submitted
Lancaster Laboratories, Inc.

Michele McClarin, B.A.

Lancaster Laboratories, Inc.
Questions? Contact Environmental Client Services at (717) 656-2301
717-656-2301

See reverse side for explanation of symbols and abbreviations

Analysis Report

Lancaster Laboratories
Where quality is a science.

10:29:58 369423
ASR000 D 1 15
04083 0

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

LLI Sample No. SW 1933439
Date Reported 3/ 8/93
Date Submitted 2/22/93
Discard Date 3/23/93
Collected 2/20/93 by ME
Time Collected 1525
P.O.
Rel.

A/7-4-2 Grab Soil Sample
Recticon - Allied Steel

A7-42 SDG# RAS17-11

| ANALYSIS | RESULT AS RECEIVED | | LIMIT OF QUANTITATION | LAB CODE |
|---|---|---|---|---|
| Moisture | 5.5 | % by wt. | 0.5 | 135301200P* |
| CLP Form I - VOA's | | attached | | 142100000P* |
| TCL Volatiles (EPA 3/90 SOW) | | attached | | 427627000P* |

Acetone was detected in the solid matrix method blank at a concentration of 22. ug/kg. The blank value was not subtracted from the analytical result.

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

Questions? Contact Environmental Client Services at (717) 656-2301
854 04083 15.00 029700

Respectfully Submitted
Lancaster Laboratories, Inc.

Michele McClarin, B.A.
Group Leader, GC/MS Volatiles

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



See reverse side for explanation of symbols and abbreviations

Analysis Report

Lancaster Laboratories
Where quality is a science.

10:29:58 369423
ASR000 D 1 15
04083 0

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

LLI Sample No. SW 1933439
Date Reported 3/ 8/93
Date Submitted 2/22/93
Discard Date 3/23/93
Collected 2/20/93 by ME
Time Collected 1525
P.O.
Rel.

A/7-4-2 Grab Soil Sample
Recticon - Allied Steel

| A7-42 SDG# RAS17-11 ANALYSIS | RESULT DRY WT. BASIS | | LIMIT OF QUANTITATION | LAB CODE |
|---|---|---|---|---|
| Moisture *AS RECEIVED* | 5.5 | % by wt. | 0.5 | 135327000P* |
| CLP Form I - VOA's | | attached | | 142127000P* |
| TCL Volatiles (EPA 3/90 SOW) | | attached | | 427627000P* |

Acetone was detected in the solid matrix method blank at a concentration of 22. ug/kg. The blank value was not subtracted from the analytical result.

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

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

Respectfully Submitted
Lancaster Laboratories, Inc.

Michele McClarin, B.A.
Group Leader, GC/MS Volatiles

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



See reverse side for explanation of symbols and abbreviations

Lancaster Laboratories
Where quality is a science.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A7-42

Lab Name: LANCASTER LABS Contract: _____.
Lab Code: LANCAS Case No.: _____. SAS No.: _____. SDG No.: _____.
Matrix: (soil/water) SOIL Lab Sample ID: 1933439
Sample wt/vol: 5.0 (g/mL) G Lab File ID: >IFP04
Level: (low/med) LOW Date Received: 02/22/93
% Moisture: not dec. 6 Date Analyzed: 02/25/93
GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 11 | U |
| 75-01-4 | Vinyl Chloride | 11 | U |
| 74-83-9 | Bromomethane | 11 | U |
| 75-00-3 | Chloroethane | 11 | U |
| 75-35-4 | 1,1-Dichloroethene | 11 | U |
| 67-64-1 | Acetone | 32 | B |
| 75-15-0 | Carbon Disulfide | 1 | J B |
| 75-09-2 | Methylene Chloride | 11 | U |
| 75-34-3 | 1,1-Dichloroethane | 11 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 11 | U |
| 78-93-3 | 2-Butanone | 11 | U |
| 67-66-3 | Chloroform | 11 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 11 | U |
| 56-23-5 | Carbon Tetrachloride | 11 | U |
| 71-43-2 | Benzene | 11 | U |
| 107-06-2 | 1,2-Dichloroethane | 11 | U |
| 79-01-6 | Trichloroethene | 11 | U |
| 78-87-5 | 1,2-Dichloropropane | 11 | U |
| 75-27-4 | Bromodichloromethane | 11 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 11 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 11 | U |
| 108-88-3 | Toluene | 11 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 11 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 11 | U |
| 127-18-4 | Tetrachloroethene | 11 | U |
| 591-78-6 | 2-Hexanone | 11 | U |
| 124-48-1 | Dibromochloromethane | 11 | U |
| 108-90-7 | Chlorobenzene | 11 | U |
| 100-41-4 | Ethylbenzene | 11 | U |
| 1330-20-7 | Xylene (total) | 11 | U |
| 100-42-5 | Styrene | 11 | U |
| 75-25-2 | Bromoform | 11 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 11 | U |

FORM I VOA 3/90

Respectfully Submitted
Lancaster Laboratories, Inc.

Michele McClarin, B.A.

Lancaster Laboratories, Inc.
Questions? Contact Environmental
Client Services at (717) 656-2301
AR303926
See reverse side for explanation of symbols and abbreviations

Analysis Report

Lancaster Laboratories
Where quality is a science.

10:30:12 369423
ASR000 D 1 15
04083 0

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

LLI Sample No. SW 1933440
Date Reported 3/ 8/93
Date Submitted 2/22/93
Discard Date 3/23/93
Collected 2/20/93 by ME
Time Collected 1540
P.O.
Rel.

A/7-4-3 Grab Soil Sample
Recticon - Allied Steel

A7-43 SDG# RAS17-12

| ANALYSIS | RESULT AS RECEIVED | | LIMIT OF QUANTITATION | LAB CODE |
|---|---|---|---|---|
| Moisture | 6.1 | % by wt. | 0.5 | 135301200P* |
| CLP Form I - VOA's | | attached | | 142100000P* |
| TCL Volatiles (EPA 3/90 SOW) | | attached | | 427627000P* |

Acetone was detected in the solid matrix method blank at a concentration of 22. ug/kg. The blank value was not subtracted from the analytical result.

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

Questions? Contact Environmental Client Services at (717) 656-2301
854 04083 15.00 029700

Respectfully Submitted
Lancaster Laboratories, Inc.

Michele McClarin, B.A.
Group Leader, GC/MS Volatiles

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

AR303927

See reverse side for explanation of symbols and abbreviations

Lancaster Laboratories
Where quality is a science.

10:30:12 369423
ASR000 D 1 15
04083 0

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

LLI Sample No. SW 1933440
Date Reported 3/ 8/93
Date Submitted 2/22/93
Discard Date 3/23/93
Collected 2/20/93 by ME
Time Collected 1540
P.O.
Rel.

A/7-4-3 Grab Soil Sample
Recticon - Allied Steel

A7-43 SDG# RAS17-12

| ANALYSIS | RESULT DRY WT. BASIS | | LIMIT OF QUANTITATION | LAB CODE |
|---|---|---|---|---|
| Moisture *AS RECEIVED* | 6.1 | % by wt. | 0.5 | 135327000P* |
| CLP Form I - VOA's | | attached | | 142127000P* |
| TCL Volatiles (EPA 3/90 SOW) | | attached | | 427627000P* |

Acetone was detected in the solid matrix method blank at a concentration of 22. ug/kg. The blank value was not subtracted from the analytical result.

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

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

Respectfully Submitted
Lancaster Laboratories, Inc.

Michele McClarin, B.A.
Group Leader, GC/MS Volatiles

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



See reverse side for explanation of symbols and abbreviations

Lancaster Laboratories
Where quality is a science.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A7-43

Lab Name: LANCASTER LABS Contract: _____.
Lab Code: LANCAS Case No.: _____. SAS No.: _____. SDG No.: _____.
Matrix: (soil/water) SOIL Lab Sample ID: 1933440
Sample wt/vol: 5.0 (g/mL) G Lab File ID: >IFP05
Level: (low/med) LOW Date Received: 02/22/93
% Moisture: not dec. 6 Date Analyzed: 02/25/93
GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 11 | U |
| 75-01-4 | Vinyl Chloride | 11 | U |
| 74-83-9 | Bromomethane | 11 | U |
| 75-00-3 | Chloroethane | 11 | U |
| 75-35-4 | 1,1-Dichloroethene | 11 | U |
| 67-64-1 | Acetone | 26 | B |
| 75-15-0 | Carbon Disulfide | 11 | U |
| 75-09-2 | Methylene Chloride | 11 | U |
| 75-34-3 | 1,1-Dichloroethane | 11 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 11 | U |
| 78-93-3 | 2-Butanone | 11 | U |
| 67-66-3 | Chloroform | 11 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 11 | U |
| 56-23-5 | Carbon Tetrachloride | 11 | U |
| 71-43-2 | Benzene | 11 | U |
| 107-06-2 | 1,2-Dichloroethane | 11 | U |
| 79-01-6 | Trichloroethene | 11 | U |
| 78-87-5 | 1,2-Dichloropropane | 11 | U |
| 75-27-4 | Bromodichloromethane | 11 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 11 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 11 | U |
| 108-88-3 | Toluene | 11 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 11 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 11 | U |
| 127-18-4 | Tetrachloroethene | 11 | U |
| 591-78-6 | 2-Hexanone | 11 | U |
| 124-48-1 | Dibromochloromethane | 11 | U |
| 108-90-7 | Chlorobenzene | 11 | U |
| 100-41-4 | Ethylbenzene | 11 | U |
| 1330-20-7 | Xylene (total) | 11 | U |
| 100-42-5 | Styrene | 11 | U |
| 75-25-2 | Bromoform | 11 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 11 | U |

FORM I VOA 3/90

Respectfully Submitted
Lancaster Laboratories, Inc.

Michele McClarin, B.A.

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

See reverse side for explanation of symbols and abbreviations

# APPENDIX Y

## NEGATIVE DETERMINATIONS FROM U.S. FISH AND WILDLIFE SERVICE AND PADER

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
841 CHESTNUT BUILDING
PHILADELPHIA, PENNSYLVANIA 19107

Dr. Richard Reisenweber (110-SG05)
Environmental Remediation
Rockwell International Corporation
2201 Seal Beach Boulevard
P.O. Box 2515
Seal Beach, California 90740

August 30, 1991

Re: Recticon/Allied Steel Site
Parkerford, PA

Dear Dr. Reisenweber:

Enclosed please find lctters dated June 18, 1991, and June 20, 1991, from the Pennsylvania Department of Environmental Resources and the U.S. Fish and Wildlife Service concerning the presence of endangered or threatened species within the area affected by the referenced site. These letters respond to the enclosed EPA letter dated June 4, 1991.

These responses represent a negative determination concerning threatened or endangered species in the project impact areas. These findings need to be presented in the Remedial Investigation report for this site.

Please feel free to contact me at (215) 597-8186 if you have any questions concerning this correspondence.

Sincerely,

David G. Byro

David G. Byro, Project Manager
S.E. Pennsylvania Section (3HW21)

Enclosures

cc: R. Golia, Dames & Moore

United States Department of the Interior
FISH AND WILDLIFE SERVICE
Suite 322
315 South Allen Street
State College, Pennsylvania 16801

June 20, 1991

Mr. David G. Byro
United States Environmental
Protection Agency
Region III
841 Chestnut Building
Philadelphia, PA 19107

Dear Mr. Byro:

This responds to your letter of June 4, 1991, requesting information concerning the presence of federally listed or proposed endangered and threatened species within the area affected by the Centre County Kepone site located in Centre County and the Recticon/Allied Steel site located in Chester County, Pennsylvania.

Except for occasional transient species, no federally listed or proposed threatened or endangered species under our jurisdiction are known to exist in the project impact areas. Therefore, no Biological Assessment or further Section 7 consultation under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) is required with the Fish and Wildlife Service. Should project plans change, or if additional information on listed or proposed species becomes available, this determination may be reconsidered. A compilation of federally listed endangered and threatened species in Pennsylvania is enclosed for your information. Requests for information regarding State-listed endangered or threatened species should be directed to the Pennsylvania Game Commission (wildlife), the Pennsylvania Fish Commission (fish, reptiles and amphibians) and the Pennsylvania Department of Environmental Resources (plants).

This response relates only to endangered or threatened species under our jurisdiction, based on an office review of the proposed project's location. No field inspection of the project area has been conducted by this office. Consequently, this letter is not to be construed as addressing other Service concerns under the Fish and Wildlife Coordination Act or other legislation.

If we can be of further assistance, please contact Philip Edmunds of this office at 814-234-4090.

Sincerely,

Cynthia L. Rice
Acting Supervisor

Enclosure



AR303933

## FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES IN PENNSYLVANIA

| COMMON NAME | SCIENTIFIC NAME | STATUS | DISTRIBUTION |
|---|---|---|---|
| **FISHES:** | | | |
| Sturgeon, shortnose* | Acipenser brevirostrum | E | Delaware River and Other Atlantic Coastal waters |
| **REPTILES:** | | | |
| NONE | | | |
| **BIRDS:** | | | |
| Eagle, bald | Haliaeetus leucocephalus | E | Entire State |
| Falcon, American peregrine | Falco peregrinus anatum | E | Entire State - re-establishment to former breeding range in progress |
| Falcon, Artic | Falco peregrinus tundrius | E | Entire State migratory - no nesting |
| **MAMMALS:** | | | |
| Bat, Indiana | Myotis sodalis | E | Entire State |
| Cougar, Eastern | Felis concolor cougar | E | Entire State - probably extinct |
| **MOLLUSKS:** | | | |
| NONE | | | |
| **PLANTS:** | | | |
| Pogonia, small whorled | Isotria medeoloides | E | Berks, Centre, Chester, Greene, Monroe, Montgomery, Philadelphia & Venango Counties |

* Principal responsibility for this species is vested with the National MA. Fisheries Service.

Region 5 6/3/85 - 1 p.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES

Bureau of Forestry
Forest Advisory Services
P.O. Box 8552
Harrisburg, PA 17105-8552

717/787-3444

June 18, 1991

David G. Byro, Project Manager
U.S. Environmental Protection Agency
Region III
841 Chestnut Building
Philadelphia, PA 19107

Dear Mr. Byro:

Re: PNDI Review of Centre County Kepone, and Chester County Recticon/Allied Steel Superfund Study Area Sites in Pennsylvania.

Your request of June 4 to review Two Superfund Sites for the presence of natural resources of special concern was processed using the Pennsylvania Natural Diversity Inventory (PNDI) information system.

Regarding the Ruetgers-Nease property and Spring Creek Watershed, the following species of concern are reported from this vicinity.

| Scientific Name | Common Name | PA Status |
|---|---|---|
| Carex geyeri | Geyer's Sedge | Endangered |
| Cystopteris laurentiana | Laurentian Bladder-Fern | *TU |
| Ranunculus fascicularis | Tufted Buttercup | TU |
| Rhamnus lanceolata | Lanceolate Buckthorn | TU |
| Zannichellia palustris | Horned Pondweed | TU |

These five plants have been recorded along Spring Creek on the grounds of the Rockview State Correctional Institution and the Fisherman's Paradise Fish Hatchery. Only the **Carex geyeri** population has been recently confirmed.

Recycled Paper

*A plant species is listed as Tentatively Undetermined (TU) when botanists report populations are declining but more information is needed to determine its status.

Botaurus lentiginosus American Bittern Threatened

This wading bird was observed in Slab Cabin Run near Lemont in 1918 but its continued presence has not been recently confirmed. Please contact the Pennsylvania Game Commission for information and recommendations regarding the American Bittern.

Regarding the Recticon/Allied Steel site in Chester County, the review shows no records of resources of special concern in the vicinity of this project. Thank you for cooperating with the PNDI program.

Be advised that legal authority for Pennsylvania's biological resources resides with three administrative agencies. The enclosure titled, PNDI Species List, outlines which species groups are managed by these agencies. Although, PNDI functions solely as an information system for natural resources of concern, the Pennsylvania Game Commission maintains the Fish and Wildlife Data Base which can provide data descriptive of all mammals and birds common to Pennsylvania.

PNDI is a site specific information system which describes significant natural resources of Pennsylvania. PNDI includes data descriptive of plant and animal species of special concern, exemplary natural communities and unique geological features. The information system is a cooperative project of the Department of Environmental Resources, The Nature Conservancy and the Western Pennsylvania Conservancy. This response represents the most up-to-date summary of the PNDI data files. However, the data is not intended to be a conclusive compilation of the special concern resources at the project site. Only on-site biological surveys can provide a total assessment of the natural resources present in any specific area.

The PNDI project is funded largely through contributions to the Wild Resource Conservation Fund. This fund was established in 1982 by the Pennsylvania Legislature to provide support for the research and conservation of significant natural resources within the Commonwealth.

Please phone this office or The Nature Conservancy at 717/948-3962 should you have questions pertinent to this response.

Sincerely,

Edward T. Dix

Edward T. Dix, Botanist
Div. of Forest Advisory Services
Bureau of Forestry
Dept. of Environmental Resources

Enclosures

cc: Anthony Wilkinson, PNDI-East
Charles Bier, PNDI-West
John Arway, PFC
Jake Sitlinger, PGC
File

PENNSYLVANIA NATURAL DIVERSITY INVENTORY

SPECIES LISTS

The statutory authority for Pennsylvania's animals and plants resides with three separate agencies. The Pennsylvania Department of Environmental Resources has the responsibility for management of the Commonwealth's native wild plants. The Pennsylvania Fish Commission is responsible for management of fish, reptiles, amphibians and aquatic organisms within the Commonwealth. The Pennsylvania Game Commission has the responsibility for managing the state's wild birds and mammals.

For information on current official status for a species, please consult the appropriate agency. Requests for information should be directed to:

| | |
|---|---|
| PLANTS and PNDI - general | Plant Program Manager<br>Pa. Department of Environmental Resources<br>Bureau of Forestry<br>Forest Advisory Services<br>P. O. Box 8552<br>Harrisburg, PA 17105-8552<br>(717)787-3444 |
| FISH, REPTILES, AMPHIBIANS, AQUATIC ORGANISMS | Endangered Species & Herpetology Coordinator<br>Pennsylvania Fish Commission<br>Bureau of Fisheries and Engineering<br>450 Robinson Lane<br>Bellefonte, PA 16823<br>(814)359-5113 |
| BIRDS and MAMMALS | Pennsylvania Game Commission Dan Brown<br>Bureau of Wildlife Management<br>2001 Elmerton Avenue<br>Harrisburg, PA 17110-9797<br>(717)787-5529 |

Invertebrate species are recommended for inclusion in PNDI by the Pennsylvania Biological Survey. For information concerning invertebrates with federal status contact:

Endangered Species Specialist
U.S. Fish and Wildlife Service
One Gateway Center, Suite 700
Newton Corner, MA 02158
(617)965-5100

Thank you for your request. Feel free to contact PNDI if we can be of further assistance.