Data File : C:\HPCHEM\1\DATA\121002\RB1210A.D Vial: 16
Acq On : 10 Dec 02 4:47 pm Operator: WTD
Sample : REAGENT BLANK Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 10:32 19102 Quant Results File: 82701202.R

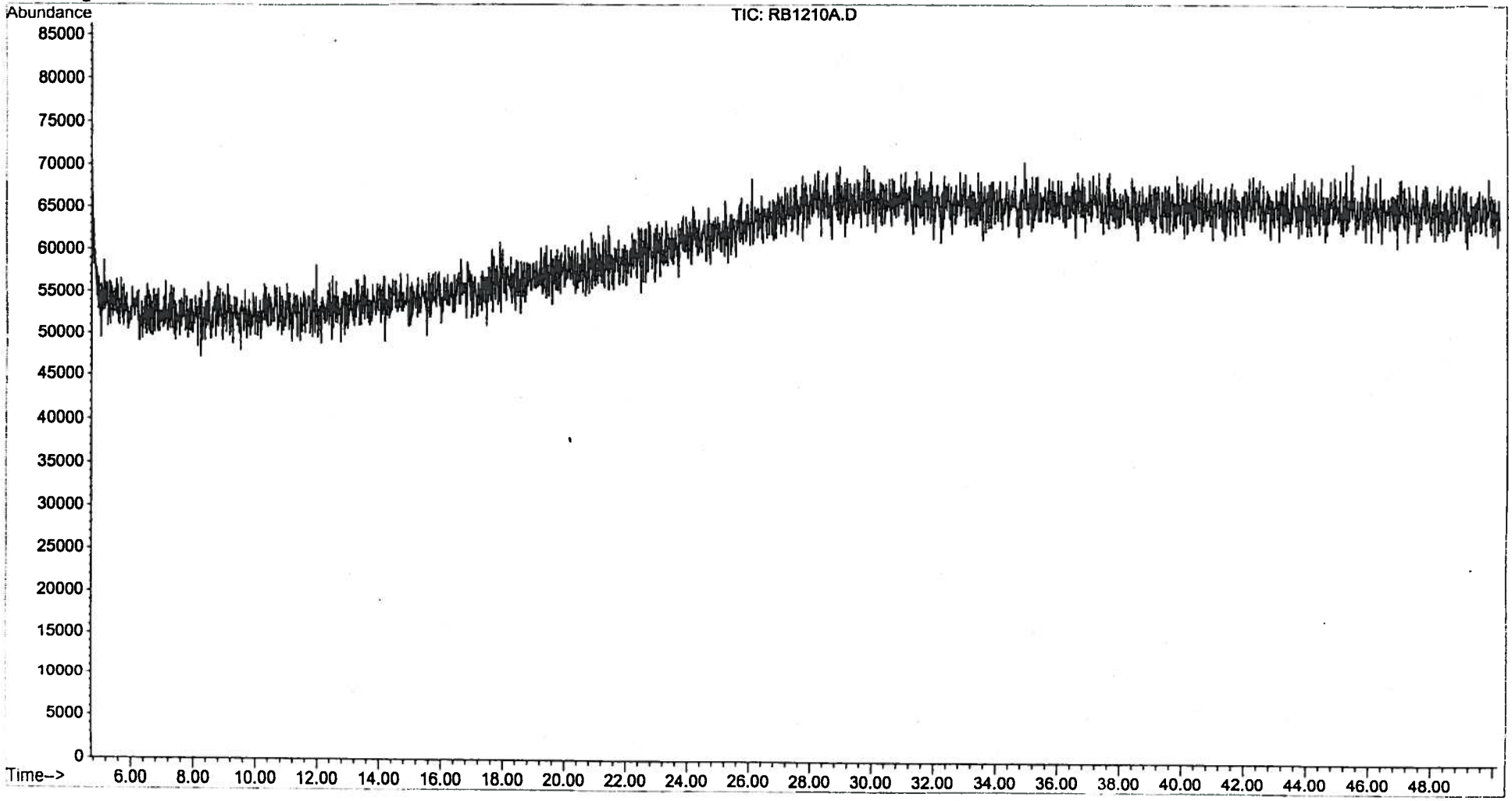
Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 62) | Di-n-butylphthalate | 0.00 | 149 | | N.D. d | |
| 63) | Fluoranthene | 0.00 | 202 | | N.D. | |
| 65) | Pyrene | 0.00 | 202 | | N.D. | |
| 67) | Butylbenzylphthalate | 0.00 | 149 | | N.D. d | |
| 68) | 3,3'-Dichlorobenzidine | 0.00 | 252 | | N.D. | |
| 69) | Benzo(a)anthracene | 0.00 | 228 | | N.D. | |
| 70) | Chrysene | 0.00 | 228 | | N.D. | |
| 71) | bis(2-Ethylhexyl)phthalate | 0.00 | 149 | | N.D. d | |
| 72) | Di-n-Octylphthalate | 0.00 | 149 | | N.D. | |
| 73) | Indeno(1,2,3-cd)pyrene | 0.00 | 276 | | N.D. | |
| 75) | Benzo(b)fluoranthene | 0.00 | 252 | | N.D. | |
| 76) | Benzo(k)fluoranthene | 0.00 | 252 | | N.D. d | |
| 77) | Benzo(a)pyrene | 0.00 | 252 | | N.D. | |
| 78) | Dibenz(a,h)anthracene | 0.00 | 278 | | N.D. | |
| 79) | Benzo(g,h,i)perylene | 0.00 | 276 | | N.D. | |

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\121002\RB1210A.D Vial: 16
Acq On : 10 Dec 02 4:47 pm Operator: WTD
Sample : REAGENT BLANK Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 10:32 19102 Quant Results File: 82701202.RES

Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\121002\CC1210B.D
Acq On : 11 Dec 02 6:49 am
Sample : CONTINUING CALIBRATION
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 12 11:25 19102

Vial: 2
Operator: WTD
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 82701202.R

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 11.35 | 152 | 708936 | 40.00 | NG/UL | -0.02 |
| 17) Napthalene-d8 | 14.26 | 136 | 2736711 | 40.00 | NG/UL | -0.03 |
| 32) Acenaphthene-d10 | 18.37 | 164 | 1202983 | 40.00 | NG/UL | -0.01 |
| 53) Phenanthrene-d10 | 21.82 | 188 | 1686680 | 40.00 | NG/UL | 0.00 |
| 64) Chrysene-d12 | 28.15 | 240 | 1106087 | 40.00 | NG/UL | -0.02 |
| 74) Perylene-d12 | 33.67 | 264 | 597307 | 40.00 | NG/UL | -0.01 |
| **System Monitoring Compounds** | | | | | | |
| 3) 2-Fluorophenol | 8.68 | 112 | 6460941 | 260.40 | NG/UL | 0.00 |
| Spiked Amount 200.000 | Range 21 - 100 | | Recovery = 130.20%# | | | |
| 4) Phenol-d6 | 10.81 | 99 | 7441341 | 249.67 | NG/UL | 0.01 |
| Spiked Amount 200.000 | Range 10 - 94 | | Recovery = 124.84%# | | | |
| 18) Nitrobenzene-d5 | 12.70 | 82 | 2521221 | 97.48 | NG/UL | -0.02 |
| Spiked Amount 100.000 | Range 35 - 114 | | Recovery = 97.48% | | | |
| 37) 2-Fluorobiphenyl | 16.84 | 172 | 3612161 | 103.36 | NG/UL | -0.02 |
| Spiked Amount 100.000 | Range 43 - 116 | | Recovery = 103.36% | | | |
| 52) 2,4,6-Tribromophenol | 20.28 | 330 | 1232704 | 257.84 | NG/UL | 0.00 |
| Spiked Amount 200.000 | Range 10 - 123 | | Recovery = 128.92%# | | | |
| 66) Terphenyl-d14 | 25.64 | 244 | 2706132 | 94.26 | NG/UL | 0.00 |
| Spiked Amount 100.000 | Range 33 - 141 | | Recovery = 94.26% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) N-Nitrosodimethylamine | 5.70 | 42 | 821892 | 54.21 | UG/L | 93 |
| 5) Phenol | 10.83 | 94 | 1731312m | 57.39 | NG/UL | 97 |
| 6) bis(2-Chloroethyl)ether | 10.90 | 93 | 1529643 | 56.93 | NG/UL | 98 |
| 7) 2-Chlorophenol | 10.99 | 128 | 1323893m | 56.61 | NG/UL | 97 |
| 8) 1,3-Dichlorobenzene | 11.26 | 146 | 1354558m | 52.79 | NG/UL | 99 |
| 9) 1,4-Dichlorobenzene | 11.39 | 146 | 1370981m | 54.12 | NG/UL | 98 |
| 10) 1,2-Dichlorobenzene | 11.79 | 146 | 1140526m | 48.77 | NG/UL | 98 |
| 11) Benzyl alcohol | 12.10 | 108 | 1236488m | 56.33 | NG/UL | 95 |
| 12) 2-Methylphenol | 12.10 | 107 | 1082612m | 59.09 | NG/UL | 92 |
| 13) 4-Methylphenol | 12.44 | 107 | 1539165m | 58.46 | NG/UL | 97 |
| 14) Bis (2-chloroisopropyl) et | 12.09 | 45 | 3180696 | 57.83 | NG/UL | 98 |
| 15) N-Nitroso-di-propylamine | 12.45 | 70 | 959656 | 55.35 | NG/UL | 98 |
| 16) Hexachloroethane | 12.47 | 117 | 549042m | 58.00 | NG/UL | 94 |
| 19) Nitrobenzene | 12.75 | 77 | 1334286 | 50.22 | NG/UL | 93 |
| 20) Isophorone | 13.27 | 82 | 2728503 | 50.39 | NG/UL | 97 |

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\121002\CC1210B.D Vial: 2
Acq On : 11 Dec 02 6:49 am Operator: WTD
Sample : CONTINUING CALIBRATION Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 11:25 19102 Quant Results File: 82701202.R

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 21) | 2-Nitrophenol | 13.46 | 139 | 884861 | 57.02 | NG/UL | 94 |
| 22) | 2,4-Dimethylphenol | 13.61 | 122 | 1028938 | 55.18 | NG/UL | 100 |
| 23) | bis(2-Chloroethoxy)methane | 13.81 | 93 | 1691111 | 51.29 | NG/UL | 99 |
| 24) | Benzoic acid | 14.06 | 122 | 858720 | 56.97 | NG/UL# | 100 |
| 25) | 2,4-Dichlorophenol | 14.01 | 162 | 951094 | 53.15 | NG/UL | 96 |
| 26) | 1,2,4-Trichlorobenzene | 14.18 | 180 | 924449 | 54.15 | NG/UL | 99 |
| 27) | Naphthalene | 14.31 | 128 | 3604655 | 58.65 | NG/UL | 98 |
| 28) | 4-Chloroaniline | 14.52 | 127 | 1375771 | 54.07 | NG/UL | 99 |
| 29) | Hexachlorobutadiene | 14.73 | 225 | 492873 | 51.81 | NG/UL | 99 |
| 30) | 4-Chloro-3-methylphenol | 15.71 | 107 | 1094296m | 57.55 | NG/UL | 96 |
| 31) | 2-Methylnaphthalene | 15.90 | 142 | 2352861m | 56.65 | NG/UL | 99 |
| 33) | Hexachlorocyclopentadiene | 16.43 | 237 | 258037m | 57.39 | NG/UL | 99 |
| 34) | 2,4,6-Trichlorophenol | 16.67 | 196 | 581761m | 55.09 | NG/UL | 99 |
| 35) | 2,4,5-Trichlorophenol | 16.76 | 196 | 601062m | 55.77 | NG/UL | 96 |
| 36) | 2-Chloronaphthalene | 17.04 | 162 | 1793040 | 54.86 | NG/UL | 96 |
| 38) | 2-Nitroaniline | 17.41 | 65 | 730201 | 52.23 | NG/UL | 92 |
| 39) | 2,4-Dinitrophenol | 18.63 | 184 | 232703m | 53.01 | NG/UL | 93 |
| 40) | 4-Nitrophenol | 18.82 | 139 | 1300743m | 55.74 | NG/UL | 61 |
| 41) | Dimethylphthalate | 17.91 | 163 | 2071160 | 54.00 | NG/UL | 99 |
| 42) | Acenaphthylene | 18.02 | 152 | 3100336 | 55.60 | NG/UL | 98 |
| 43) | 3-Nitroaniline | 18.40 | 138 | 648414 | 55.85 | NG/UL | 93 |
| 44) | Acenaphthene | 18.46 | 154 | 1714935 | 55.25 | NG/UL | 100 |
| 45) | Dibenzofuran | 18.82 | 168 | 2357888 | 57.04 | NG/UL | 91 |
| 46) | 2,4-Dinitrotoluene | 18.99 | 165 | 653682m | 55.44 | NG/UL | 99 |
| 47) | 2,6-Dinitrotoluene | 18.09 | 165 | 531579 | 54.50 | NG/UL | 96 |
| 48) | Diethylphthalate | 19.58 | 149 | 2186364m | 57.90 | NG/UL | 99 |
| 49) | 4-Chlorophenyl-phenylether | 19.66 | 204 | 885781m | 59.19 | NG/UL | 95 |
| 50) | Fluorene | 19.63 | 166 | 1786143 | 57.58 | NG/UL | 99 |
| 51) | 4-Nitroaniline | 19.88 | 138 | 551552 | 54.74 | NG/UL | 95 |
| 54) | 4,6-Dinitro-2-methylphenol | 19.94 | 198 | 343848m | 51.84 | NG/UL | 77 |
| 55) | N-Nitrosodiphenylamine | 19.99 | 169 | 1293873 | 52.48 | NG/UL | 98 |
| 56) | Diphenylamine | 19.99 | 169 | 1293873 | 52.49 | NG/UL | 97 |
| 57) | 4-Bromophenyl-phenylether | 20.78 | 248 | 480708 | 53.63 | NG/UL | 94 |
| 58) | Hexachlorobenzene | 21.11 | 284 | 505966 | 55.81 | NG/UL | 99 |
| 59) | Pentachlorophenol | 21.56 | 266 | 329857m | 56.13 | NG/UL | 98 |
| 60) | Phenanthrene | 21.87 | 178 | 2300127 | 55.85 | NG/UL | 98 |
| 61) | Anthracene | 21.97 | 178 | 2309301 | 56.09 | NG/UL | 99 |

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\121002\CC1210B.D Vial: 2
Acq On : 11 Dec 02 6:49 am Operator: WTD
Sample : CONTINUING CALIBRATION Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 11:25 19102 Quant Results File: 82701202.RI

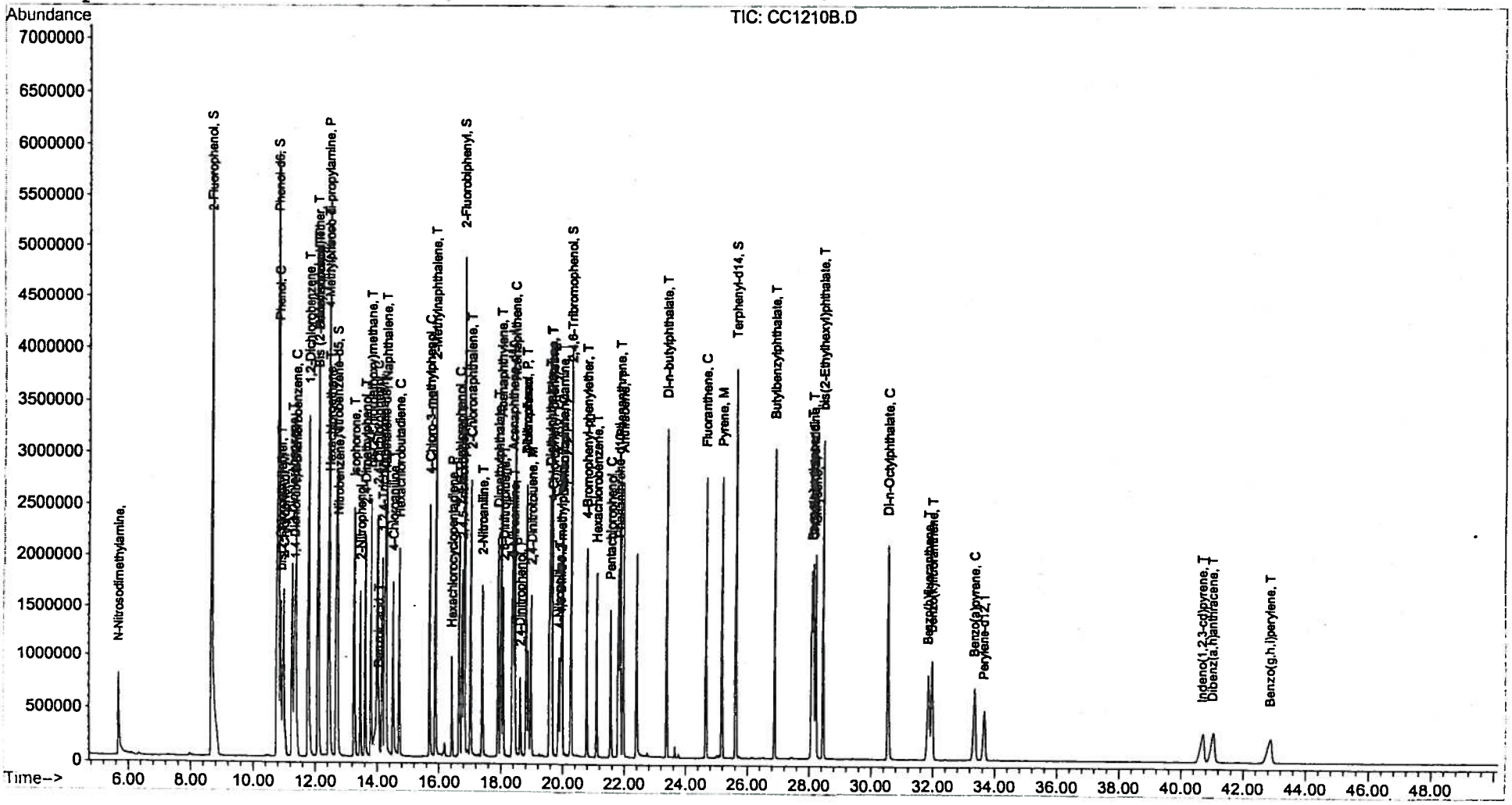
Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 62) | Di-n-butylphthalate | 23.39 | 149 | 3443736 | 50.90 | NG/UL | 98 |
| 63) | Fluoranthene | 24.67 | 202 | 2403100 | 55.53 | NG/UL | 99 |
| 65) | Pyrene | 25.19 | 202 | 2459295 | 50.42 | NG/UL | 98 |
| 67) | Butylbenzylphthalate | 26.89 | 149 | 1477360 | 54.04 | NG/UL | 98 |
| 68) | 3,3'-Dichlorobenzidine | 28.14 | 252 | 262880m | 54.31 | NG/UL | 99 |
| 69) | Benzo(a)anthracene | 28.10 | 228 | 1933633 | 57.95 | NG/UL | 100 |
| 70) | Chrysene | 28.22 | 228 | 1634003m | 56.54 | NG/UL | 98 |
| 71) | bis(2-Ethylhexyl)phthalate | 28.46 | 149 | 1403316m | 50.83 | NG/UL | 98 |
| 72) | Di-n-Octylphthalate | 30.56 | 149 | 1867691m | 48.32 | NG/UL | 99 |
| 73) | Indeno(1,2,3-cd)pyrene | 40.70 | 276 | 472879m | 44.47 | NG/UL | 98 |
| 75) | Benzo(b)fluoranthene | 31.87 | 252 | 1374654 | 56.71 | NG/UL | 100 |
| 76) | Benzo(k)fluoranthene | 31.99 | 252 | 1250822 | 53.02 | NG/UL | 99 |
| 77) | Benzo(a)pyrene | 33.36 | 252 | 1151258 | 56.18 | NG/UL | 96 |
| 78) | Dibenz(a,h)anthracene | 41.03 | 278 | 729457 | 57.62 | NG/UL | 97 |
| 79) | Benzo(g,h,i)perylene | 42.88 | 276 | 737901 | 54.90 | NG/UL | 97 |

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\121002\CC1210B.D Vial: 2
Acq On : 11 Dec 02 6:49 am Operator: WTD
Sample : CONTINUING CALIBRATION Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 11:25 19102 Quant Results File: 82701202.RES

Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\121002\CC1210B.D  Vial: 2
Acq On : 11 Dec 02 6:49 am  Operator: WTD
Sample : CONTINUING CALIBRATION  Inst : GC/MS Ins
Misc :  Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 84 | -0.02 |
| 2 | | N-Nitrosodimethylamine | 0.855 | 0.927 | -8.4 | 87 | -0.03 |
| 3 | S | 2-Fluorophenol | 1.400 | 1.823 | -30.2# | 108 | 0.00 |
| 4 | S | Phenol-d6 | 1.682 | 2.099 | -24.8 | 104 | 0.01 |
| 5 | C | Phenol | 1.702 | 1.954 | -14.8 | 95 | 0.01 |
| 6 | T | bis(2-Chloroethyl)ether | 1.516 | 1.726 | -13.9 | 94 | -0.03 |
| 7 | M | 2-Chlorophenol | 1.319 | 1.494 | -13.3 | 93 | 0.00 |
| 8 | T | 1,3-Dichlorobenzene | 1.448 | 1.529 | -5.6 | 87 | 0.00 |
| 9 | C | 1,4-Dichlorobenzene | 1.429 | 1.547 | -8.3 | 89 | -0.02 |
| 10 | T | 1,2-Dichlorobenzene | 1.319 | 1.287 | 2.4 | 81 | -0.02 |
| 11 | T | Benzyl alcohol | 1.239 | 1.395 | -12.6 | 93 | 0.00 |
| 12 | T | 2-Methylphenol | 1.034 | 1.222 | -18.2 | 97 | 0.00 |
| 13 | T | 4-Methylphenol | 1.486 | 1.737 | -16.9 | 96 | -0.02 |
| 14 | T | Bis (2-chloroisopropyl) eth | 3.104 | 3.589 | -15.6 | 96 | -0.02 |
| 15 | P | N-Nitroso-di-propylamine | 0.978 | 1.083 | -10.7 | 91 | -0.04 |
| 16 | T | Hexachloroethane | 0.534 | 0.620 | -16.1 | 95 | -0.02 |
| 17 | I | Napthalene-d8 | 1.000 | 1.000 | 0.0 | 94 | -0.03 |
| 18 | S | Nitrobenzene-d5 | 0.378 | 0.369 | 2.4 | 92 | -0.02 |
| 19 | T | Nitrobenzene | 0.388 | 0.390 | -0.5 | 94 | -0.02 |
| 20 | T | Isophorone | 0.791 | 0.798 | -0.9 | 93 | -0.03 |
| 21 | C | 2-Nitrophenol | 0.227 | 0.259 | -14.1 | 103 | -0.02 |
| 22 | T | 2,4-Dimethylphenol | 0.273 | 0.301 | -10.3 | 103 | -0.02 |
| 23 | T | bis(2-Chloroethoxy)methane | 0.482 | 0.494 | -2.5 | 95 | -0.03 |
| 24 | T | Benzoic acid | 0.220 | 0.251 | -14.1 | 102 | -0.11 |
| 25 | C | 2,4-Dichlorophenol | 0.262 | 0.278 | -6.1 | 98 | -0.02 |
| 26 | M | 1,2,4-Trichlorobenzene | 0.250 | 0.270 | -8.0 | 99 | -0.01 |
| 27 | T | Naphthalene | 0.898 | 1.054 | -17.4 | 108 | -0.03 |
| 28 | T | 4-Chloroaniline | 0.372 | 0.402 | -8.1 | 99 | -0.03 |
| 29 | C | Hexachlorobutadiene | 0.139 | 0.144 | -3.6 | 95 | -0.02 |
| 30 | C | 4-Chloro-3-methylphenol | 0.278 | 0.320 | -15.1 | 104 | 0.01 |
| 31 | T | 2-Methylnaphthalene | 0.607 | 0.688 | -13.3 | 103 | -0.02 |
| 32 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 96 | -0.01 |
| 33 | P | Hexachlorocyclopentadiene | 0.149 | 0.172 | -15.4 | 107 | 0.00 |
| 34 | C | 2,4,6-Trichlorophenol | 0.351 | 0.387 | -10.3 | 103 | 0.00 |
| 35 | T | 2,4,5-Trichlorophenol | 0.358 | 0.400 | -11.7 | 104 | 0.00 |

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\121002\CC1210B.D
Acq On : 11 Dec 02 6:49 am
Sample : CONTINUING CALIBRATION
Misc :
MS Integration Params: RTEINT.P

Vial: 2
Operator: WTD
Inst : GC/MS Ins
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 36 | T | 2-Chloronaphthalene | 1.087 | 1.192 | -9.7 | 103 | -0.02 |
| 37 | S | 2-Fluorobiphenyl | 1.162 | 1.201 | -3.4 | 99 | -0.02 |
| 38 | T | 2-Nitroaniline | 0.465 | 0.486 | -4.5 | 99 | -0.02 |
| 39 | P | 2,4-Dinitrophenol | 0.146 | 0.155 | -6.2 | 103 | -0.02 |
| 40 | P | 4-Nitrophenol | 0.776 | 0.865 | -11.5 | 104 | -0.03 |
| 41 | T | Dimethylphthalate | 1.275 | 1.377 | -8.0 | 103 | -0.03 |
| 42 | T | Acenaphthylene | 1.854 | 2.062 | -11.2 | 104 | -0.02 |
| 43 | T | 3-Nitroaniline | 0.386 | 0.431 | -11.7 | 106 | -0.02 |
| 44 | C | Acenaphthene | 1.032 | 1.140 | -10.5 | 103 | -0.02 |
| 45 | T | Dibenzofuran | 1.374 | 1.568 | -14.1 | 107 | -0.02 |
| 46 | M | 2,4-Dinitrotoluene | 0.392 | 0.435 | -11.0 | 104 | -0.03 |
| 47 | T | 2,6-Dinitrotoluene | 0.324 | 0.354 | -9.3 | 103 | -0.03 |
| [illegible] | T | Diethylphthalate | 1.256 | 1.454 | -15.8 | 109 | -0.04 |
| 49 | T | 4-Chlorophenyl-phenylether | 0.498 | 0.589 | -18.3 | 113 | -0.01 |
| 50 | T | Fluorene | 1.031 | 1.188 | -15.2 | 108 | -0.03 |
| 51 | T | 4-Nitroaniline | 0.335 | 0.367 | -9.6 | 103 | -0.06 |
| 52 | S | 2,4,6-Tribromophenol | 0.159 | 0.205 | -28.9 | 123 | 0.00 |
| 53 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 108 | 0.00 |
| 54 | T | 4,6-Dinitro-2-methylphenol | 0.157 | 0.163 | -3.8 | 109 | -0.05 |
| 55 | T | N-Nitrosodiphenylamine | 0.585 | 0.614 | -5.0 | 111 | -0.03 |
| 56 | C | Diphenylamine | 0.585 | 0.614 | -5.0 | 111 | -0.03 |
| 57 | T | 4-Bromophenyl-phenylether | 0.213 | 0.228 | -7.0 | 111 | -0.03 |
| 58 | T | Hexachlorobenzene | 0.215 | 0.240 | -11.6 | 118 | -0.03 |
| 59 | C | Pentachlorophenol | 0.139 | 0.156 | -12.2 | 115 | -0.02 |
| 60 | T | Phenanthrene | 0.977 | 1.091 | -11.7 | 119 | -0.03 |
| 61 | T | Anthracene | 0.976 | 1.095 | -12.2 | 120 | -0.03 |
| 62 | T | Di-n-butylphthalate | 1.605 | 1.633 | -1.7 | 109 | -0.02 |
| 63 | C | Fluoranthene | 1.026 | 1.140 | -11.1 | 117 | -0.02 |
| 64 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 129 | -0.02 |
| 65 | M | Pyrene | 1.764 | 1.779 | -0.9 | 120 | -0.03 |
| 66 | S | Terphenyl-d14 | 1.038 | 0.979 | 5.7 | 115 | 0.00 |
| 67 | T | Butylbenzylphthalate | 0.989 | 1.069 | -8.1 | 133 | -0.02 |
| 68 | T | 3,3'-Dichlorobenzidine | 0.175 | 0.190 | -8.6 | 167 | -0.01 |
| 69 | T | Benzo(a)anthracene | 1.207 | 1.399 | -15.9 | 143 | -0.02 |
| [illegible] | T | Chrysene | 1.045 | 1.182 | -13.1 | 141 | -0.03 |

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\121002\CC1210B.D Vial: 2
Acq On : 11 Dec 02 6:49 am Operator: WTD
Sample : CONTINUING CALIBRATION Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 71 | T | bis(2-Ethylhexyl)phthalate | 0.998 | 1.015 | -1.7 | 131 | -0.02 |
| 72 | C | Di-n-Octylphthalate | 1.398 | 1.351 | 3.4 | 130 | -0.04 |
| 73 | T | Indeno(1,2,3-cd)pyrene | 0.385 | 0.342 | 11.2 | 133 | -0.09 |
| 74 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 185 | -0.01 |
| 75 | T | Benzo(b)fluoranthene | 1.623 | 1.841 | -13.4 | 195 | -0.03 |
| 76 | T | Benzo(k)fluoranthene | 1.580 | 1.675 | -6.0 | 182 | -0.04 |
| 77 | C | Benzo(a)pyrene | 1.372 | 1.542 | -12.4 | 199 | -0.05 |
| 78 | T | Dibenz(a,h)anthracene | 0.848 | 0.977 | -15.2 | 202# | -0.10 |
| 79 | T | Benzo(g,h,i)perylene | 0.900 | 0.988 | -9.8 | 207# | -0.10 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data File : C:\HPCHEM\1\DATA\121002\RB1210.D
Acq On : 11 Dec 02 7:48 am
Sample : REAGENT BLANK
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 12 11:26 19102

Vial: 16
Operator: WTD
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 82701202.RE

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 0.00 | 152 | 0 | 0.00 | NG/UL | -11.37 |
| 17) Napthalene-d8 | 0.00 | 136 | 0 | 0.00 | NG/UL | -14.28 |
| 32) Acenaphthene-d10 | 0.00 | 164 | 0 | 0.00 | NG/UL | -18.39 |
| 53) Phenanthrene-d10 | 0.00 | 188 | 0 | 0.00 | NG/UL | -21.83 |
| 64) Chrysene-d12 | 0.00 | 240 | 0 | 0.00 | NG/UL | -28.17 |
| 74) Perylene-d12 | 0.00 | 264 | 0 | 0.00 | NG/UL | -33.68 |
| **System Monitoring Compounds** | | | | | | |
| 3) 2-Fluorophenol | 0.00 | 112 | 0 | 0.00 | NG/UL | |
| Spiked Amount 200.000 | Range 21 - 100 | | Recovery = | 0.00%# | | |
| 4) Phenol-d6 | 0.00 | 99 | 0 | 0.00 | NG/UL | |
| Spiked Amount 200.000 | Range 10 - 94 | | Recovery = | 0.00%# | | |
| 18) Nitrobenzene-d5 | 12.60 | 82 | 98 | 0.00 | NG/UL | -0.12 |
| Spiked Amount 100.000 | Range 35 - 114 | | Recovery = | 0.00%# | | |
| 37) 2-Fluorobiphenyl | 0.00 | 172 | 0 | 0.00 | NG/UL | |
| Spiked Amount 100.000 | Range 43 - 116 | | Recovery = | 0.00%# | | |
| 52) 2,4,6-Tribromophenol | 0.00 | 330 | 0 | 0.00 | NG/UL | |
| Spiked Amount 200.000 | Range 10 - 123 | | Recovery = | 0.00%# | | |
| 66) Terphenyl-d14 | 25.55 | 244 | 105 | 0.00 | NG/UL | -0.09 |
| Spiked Amount 100.000 | Range 33 - 141 | | Recovery = | 0.00%# | | |

| Target Compounds | | | Qvalue |
|---|---|---|---|
| 2) N-Nitrosodimethylamine | 5.74 | 42 | N.D. |
| 5) Phenol | 10.81 | 94 | N.D. |
| 6) bis(2-Chloroethyl)ether | 0.00 | 93 | N.D. |
| 7) 2-Chlorophenol | 0.00 | 128 | N.D. |
| 8) 1,3-Dichlorobenzene | 0.00 | 146 | N.D. |
| 9) 1,4-Dichlorobenzene | 0.00 | 146 | N.D. |
| 10) 1,2-Dichlorobenzene | 0.00 | 146 | N.D. |
| 11) Benzyl alcohol | 0.00 | 108 | N.D. |
| 12) 2-Methylphenol | 0.00 | 107 | N.D. |
| 13) 4-Methylphenol | 0.00 | 107 | N.D. |
| 14) Bis (2-chloroisopropyl) et | 12.10 | 45 | N.D. |
| 15) N-Nitroso-di-propylamine | 0.00 | 70 | N.D. |
| 16) Hexachloroethane | 0.00 | 117 | N.D. |
| 19) Nitrobenzene | 12.78 | 77 | N.D. |
| 20) Isophorone | 13.23 | 82 | N.D. |

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\121002\RB1210.D
Acq On : 11 Dec 02 7:48 am
Sample : REAGENT BLANK
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 12 11:26 19102

Vial: 16
Operator: WTD
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 82701202.R

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 21) 2-Nitrophenol | 13.23 | 139 | | N.D. | |
| 22) 2,4-Dimethylphenol | 0.00 | 122 | | N.D. | |
| 23) bis(2-Chloroethoxy)methane | 13.77 | 93 | | N.D. | |
| 24) Benzoic acid | 0.00 | 122 | | N.D. | |
| 25) 2,4-Dichlorophenol | 0.00 | 162 | | N.D. | |
| 26) 1,2,4-Trichlorobenzene | 0.00 | 180 | | N.D. | |
| 27) Naphthalene | 14.12 | 128 | | N.D. | |
| 28) 4-Chloroaniline | 14.30 | 127 | | N.D. | |
| 29) Hexachlorobutadiene | 0.00 | 225 | | N.D. | |
| 30) 4-Chloro-3-methylphenol | 0.00 | 107 | | N.D. | |
| 31) 2-Methylnaphthalene | 0.00 | 142 | | N.D. | |
| 33) Hexachlorocyclopentadiene | 0.00 | 237 | | N.D. | |
| 34) 2,4,6-Trichlorophenol | 0.00 | 196 | | N.D. | |
| 35) 2,4,5-Trichlorophenol | 0.00 | 196 | | N.D. | |
| 36) 2-Chloronaphthalene | 0.00 | 162 | | N.D. | |
| 38) 2-Nitroaniline | 17.45 | 65 | | N.D. | |
| 39) 2,4-Dinitrophenol | 0.00 | 184 | | N.D. | |
| 40) 4-Nitrophenol | 0.00 | 139 | | N.D. | |
| 41) Dimethylphthalate | 0.00 | 163 | | N.D. | |
| 42) Acenaphthylene | 0.00 | 152 | | N.D. | |
| 43) 3-Nitroaniline | 0.00 | 138 | | N.D. | |
| 44) Acenaphthene | 0.00 | 154 | | N.D. | |
| 45) Dibenzofuran | 0.00 | 168 | | N.D. | |
| 46) 2,4-Dinitrotoluene | 0.00 | 165 | | N.D. | |
| 47) 2,6-Dinitrotoluene | 0.00 | 165 | | N.D. | |
| 48) Diethylphthalate | 19.33 | 149 | | N.D. | |
| 49) 4-Chlorophenyl-phenylether | 0.00 | 204 | | N.D. | |
| 50) Fluorene | 0.00 | 166 | | N.D. | |
| 51) 4-Nitroaniline | 0.00 | 138 | | N.D. | |
| 54) 4,6-Dinitro-2-methylphenol | 0.00 | 198 | | N.D. | |
| 55) N-Nitrosodiphenylamine | 20.29 | 169 | | N.D. | |
| 56) Diphenylamine | 20.29 | 169 | | N.D. | |
| 57) 4-Bromophenyl-phenylether | 0.00 | 248 | | N.D. | |
| 58) Hexachlorobenzene | 0.00 | 284 | | N.D. | |
| 59) Pentachlorophenol | 0.00 | 266 | | N.D. | |
| 60) Phenanthrene | 0.00 | 178 | | N.D. | |
| 61) Anthracene | 0.00 | 178 | | N.D. | |

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\121002\RB1210.D Vial: 16
Acq On : 11 Dec 02 7:48 am Operator: WTD
Sample : REAGENT BLANK Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 11:26 19102 Quant Results File: 82701202.I

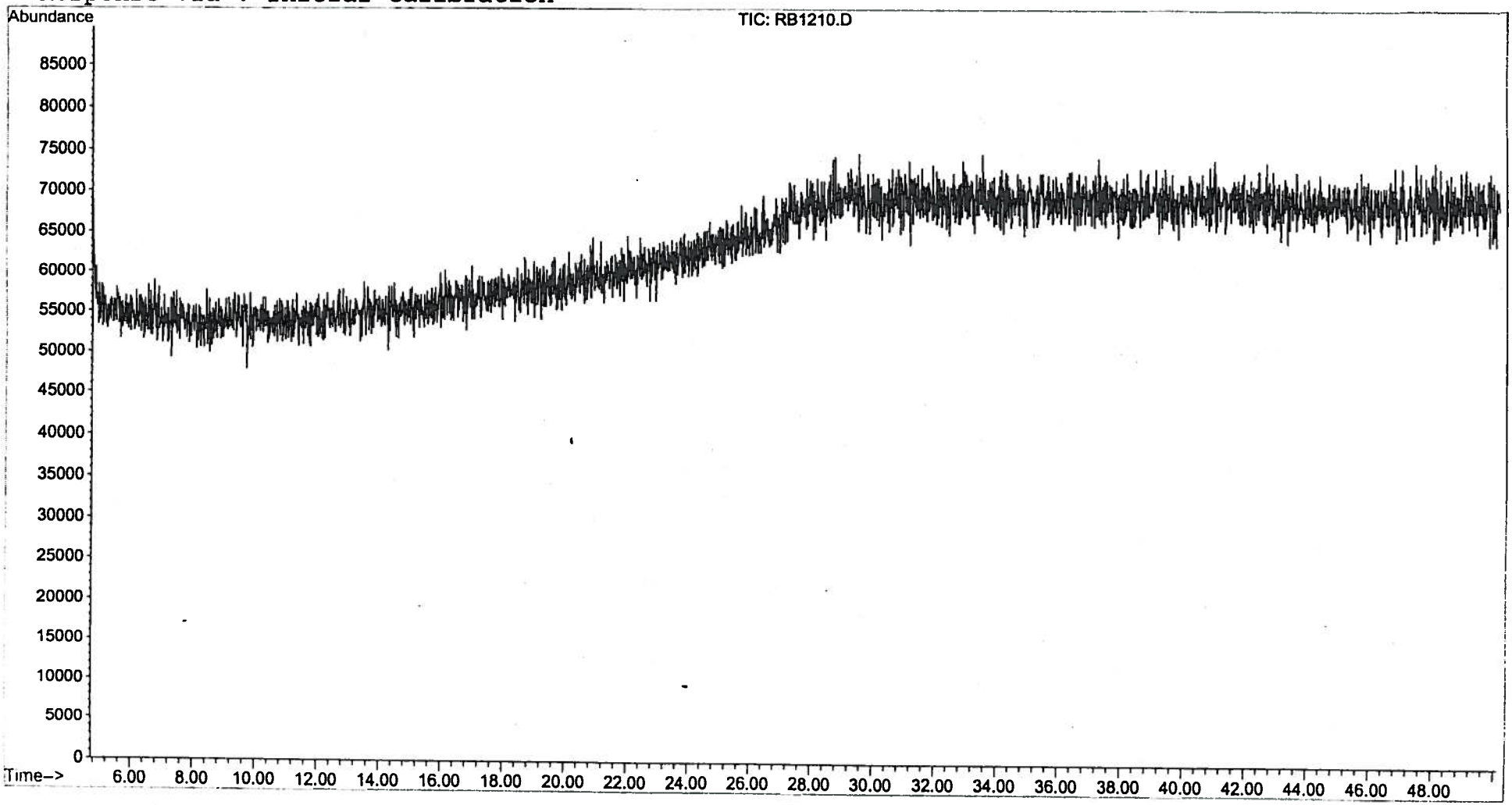
Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 62) Di-n-butylphthalate | 0.00 | 149 | | N.D. | |
| 63) Fluoranthene | 24.42 | 202 | | N.D. | |
| 65) Pyrene | 0.00 | 202 | | N.D. | |
| 67) Butylbenzylphthalate | 26.90 | 149 | | N.D. | |
| 68) 3,3'-Dichlorobenzidine | 0.00 | 252 | | N.D. | |
| 69) Benzo(a)anthracene | 28.35 | 228 | | N.D. | |
| 70) Chrysene | 28.35 | 228 | | N.D. | |
| 71) bis(2-Ethylhexyl)phthalate | 28.89 | 149 | | N.D. | |
| 72) Di-n-Octylphthalate | 31.02 | 149 | | N.D. | |
| 73) Indeno(1,2,3-cd)pyrene | 0.00 | 276 | | N.D. | |
| 75) Benzo(b)fluoranthene | 0.00 | 252 | | N.D. | |
| 76) Benzo(k)fluoranthene | 0.00 | 252 | | N.D. | |
| 77) Benzo(a)pyrene | 0.00 | 252 | | N.D. | |
| 78) Dibenz(a,h)anthracene | 0.00 | 278 | | N.D. | |
| 79) Benzo(g,h,i)perylene | 0.00 | 276 | | N.D. | |

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\121002\RB1210.D  Vial: 16
Acq On : 11 Dec 02 7:48 am  Operator: WTD
Sample : REAGENT BLANK  Inst : GC/MS Ins
Misc :  Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 11:26 19102  Quant Results File: 82701202.RES

Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\121002\BT80879.D  Vial: 15
Acq On : 11 Dec 02 5:50 am  Operator: WTD
Sample : DUPLICATE  Inst : GC/MS Ins
Misc :  Multiplr: 1.10
MS Integration Params: RTEINT.P
Quant Time: Dec 12 11:21 19102  Quant Results File: 82701202.R

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 11.35 | 152 | 663362 | 40.00 | NG/UL | -0.02 |
| 17) Napthalene-d8 | 14.28 | 136 | 2254469 | 40.00 | NG/UL | 0.00 |
| 32) Acenaphthene-d10 | 18.38 | 164 | 984383 | 40.00 | NG/UL | 0.00 |
| 53) Phenanthrene-d10 | 21.82 | 188 | 1300488 | 40.00 | NG/UL | 0.00 |
| 64) Chrysene-d12 | 28.14 | 240 | 878523 | 40.00 | NG/UL | -0.03 |
| 74) Perylene-d12 | 33.66 | 264 | 494457 | 40.00 | NG/UL | -0.02 |
| **System Monitoring Compounds** | | | | | | |
| 3) 2-Fluorophenol | 8.69 | 112 | 2109633 | 90.87 | NG/UL | 0.02 |
| Spiked Amount 200.000 | Range 21 - 100 | | Recovery = 45.44% | | | |
| 4) Phenol-d6 | 10.85 | 99 | 2041523 | 73.20 | NG/UL | 0.05 |
| Spiked Amount 200.000 | Range 10 - 94 | | Recovery = 36.60% | | | |
| 18) Nitrobenzene-d5 | 12.69 | 82 | 1977851 | 92.83 | NG/UL | -0.03 |
| Spiked Amount 100.000 | Range 35 - 114 | | Recovery = 92.83% | | | |
| 37) 2-Fluorobiphenyl | 16.89 | 172 | 2290801 | 80.10 | NG/UL | 0.03 |
| Spiked Amount 100.000 | Range 43 - 116 | | Recovery = 80.10% | | | |
| 52) 2,4,6-Tribromophenol | 20.28 | 330 | 875523m | 223.80 | NG/UL | 0.00 |
| Spiked Amount 200.000 | Range 10 - 123 | | Recovery = 111.90% | | | |
| 66) Terphenyl-d14 | 25.64 | 244 | 2028171 | 88.95 | NG/UL | 0.00 |
| Spiked Amount 100.000 | Range 33 - 141 | | Recovery = 88.95% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) N-Nitrosodimethylamine | 0.00 | 42 | | N.D. | d | |
| 5) Phenol | 0.00 | 94 | | N.D. | d | |
| 6) bis(2-Chloroethyl)ether | 0.00 | 93 | | N.D. | d | |
| 7) 2-Chlorophenol | 0.00 | 128 | | N.D. | d | |
| 8) 1,3-Dichlorobenzene | 0.00 | 146 | | N.D. | d | |
| 9) 1,4-Dichlorobenzene | 0.00 | 146 | | N.D. | d | |
| 10) 1,2-Dichlorobenzene | 0.00 | 146 | | N.D. | d | |
| 11) Benzyl alcohol | 0.00 | 108 | | N.D. | d | |
| 12) 2-Methylphenol | 0.00 | 107 | | N.D. | d | |
| 13) 4-Methylphenol | 12.56 | 107 | 285752 | 12.76 | NG/UL | 94 |
| 14) Bis (2-chloroisopropyl) et | 0.00 | 45 | | N.D. | d | |
| 15) N-Nitroso-di-propylamine | 0.00 | 70 | | N.D. | d | |
| 16) Hexachloroethane | 0.00 | 117 | | N.D. | d | |
| 19) Nitrobenzene | 0.00 | 77 | | N.D. | d | |
| 20) Isophorone | 0.00 | 82 | | N.D. | d | |

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\121002\BT80879.D Vial: 15
Acq On : 11 Dec 02 5:50 am Operator: WTD
Sample : DUPLICATE Inst : GC/MS Ins
Misc : Multiplr: 1.10
MS Integration Params: RTEINT.P
Quant Time: Dec 12 11:21 19102 Quant Results File: 82701202.R

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 21) 2-Nitrophenol | 0.00 | 139 | | N.D. d | |
| 22) 2,4-Dimethylphenol | 0.00 | 122 | | N.D. d | |
| 23) bis(2-Chloroethoxy)methane | 0.00 | 93 | | N.D. d | |
| 24) Benzoic acid | 0.00 | 122 | | N.D. d | |
| 25) 2,4-Dichlorophenol | 0.00 | 162 | | N.D. d | |
| 26) 1,2,4-Trichlorobenzene | 0.00 | 180 | | N.D. d | |
| 27) Naphthalene | 0.00 | 128 | | N.D. d | |
| 28) 4-Chloroaniline | 0.00 | 127 | | N.D. d | |
| 29) Hexachlorobutadiene | 0.00 | 225 | | N.D. | |
| 30) 4-Chloro-3-methylphenol | 0.00 | 107 | | N.D. d | |
| 31) 2-Methylnaphthalene | 0.00 | 142 | | N.D. d | |
| 33) Hexachlorocyclopentadiene | 0.00 | 237 | | N.D. d | |
| 34) 2,4,6-Trichlorophenol | 0.00 | 196 | | N.D. d | |
| 35) 2,4,5-Trichlorophenol | 0.00 | 196 | | N.D. d | |
| 36) 2-Chloronaphthalene | 0.00 | 162 | | N.D. d | |
| 38) 2-Nitroaniline | 0.00 | 65 | | N.D. d | |
| 39) 2,4-Dinitrophenol | 0.00 | 184 | | N.D. d | |
| 40) 4-Nitrophenol | 0.00 | 139 | | N.D. d | |
| 41) Dimethylphthalate | 0.00 | 163 | | N.D. d | |
| 42) Acenaphthylene | 0.00 | 152 | | N.D. d | |
| 43) 3-Nitroaniline | 0.00 | 138 | | N.D. d | |
| 44) Acenaphthene | 0.00 | 154 | | N.D. d | |
| 45) Dibenzofuran | 0.00 | 168 | | N.D. d | |
| 46) 2,4-Dinitrotoluene | 0.00 | 165 | | N.D. d | |
| 47) 2,6-Dinitrotoluene | 0.00 | 165 | | N.D. d | |
| 48) Diethylphthalate | 0.00 | 149 | | N.D. d | |
| 49) 4-Chlorophenyl-phenylether | 0.00 | 204 | | N.D. d | |
| 50) Fluorene | 0.00 | 166 | | N.D. d | |
| 51) 4-Nitroaniline | 0.00 | 138 | | N.D. d | |
| 54) 4,6-Dinitro-2-methylphenol | 0.00 | 198 | | N.D. d | |
| 55) N-Nitrosodiphenylamine | 0.00 | 169 | | N.D. d | |
| 56) Diphenylamine | 0.00 | 169 | | N.D. d | |
| 57) 4-Bromophenyl-phenylether | 0.00 | 248 | | N.D. d | |
| 58) Hexachlorobenzene | 0.00 | 284 | | N.D. | |
| 59) Pentachlorophenol | 0.00 | 266 | | N.D. d | |
| 60) Phenanthrene | 0.00 | 178 | | N.D. d | |
| 61) Anthracene | 0.00 | 178 | | N.D. d | |

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\121002\BT80879.D
Acq On : 11 Dec 02 5:50 am
Sample : DUPLICATE
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 12 11:21 19102

Vial: 15
Operator: WTD
Inst : GC/MS Ins
Multiplr: 1.10

Quant Results File: 82701202.R

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 62) | Di-n-butylphthalate | 0.00 | 149 | | N.D. | d | |
| 63) | Fluoranthene | 0.00 | 202 | | N.D. | d | |
| 65) | Pyrene | 0.00 | 202 | | N.D. | d | |
| 67) | Butylbenzylphthalate | 0.00 | 149 | | N.D. | d | |
| 68) | 3,3'-Dichlorobenzidine | 0.00 | 252 | | N.D. | d | |
| 69) | Benzo(a)anthracene | 0.00 | 228 | | N.D. | d | |
| 70) | Chrysene | 0.00 | 228 | | N.D. | d | |
| 71) | bis(2-Ethylhexyl)phthalate | 0.00 | 149 | | N.D. | d | |
| 72) | Di-n-Octylphthalate | 0.00 | 149 | | N.D. | d | |
| 73) | Indeno(1,2,3-cd)pyrene | 0.00 | 276 | | N.D. | | |
| 75) | Benzo(b)fluoranthene | 0.00 | 252 | | N.D. | d | |
| 76) | Benzo(k)fluoranthene | 0.00 | 252 | | N.D. | d | |
| 77) | Benzo(a)pyrene | 0.00 | 252 | | N.D. | d | |
| 78) | Dibenz(a,h)anthracene | 0.00 | 278 | | N.D. | d | |
| 79) | Benzo(g,h,i)perylene | 0.00 | 276 | | N.D. | | |

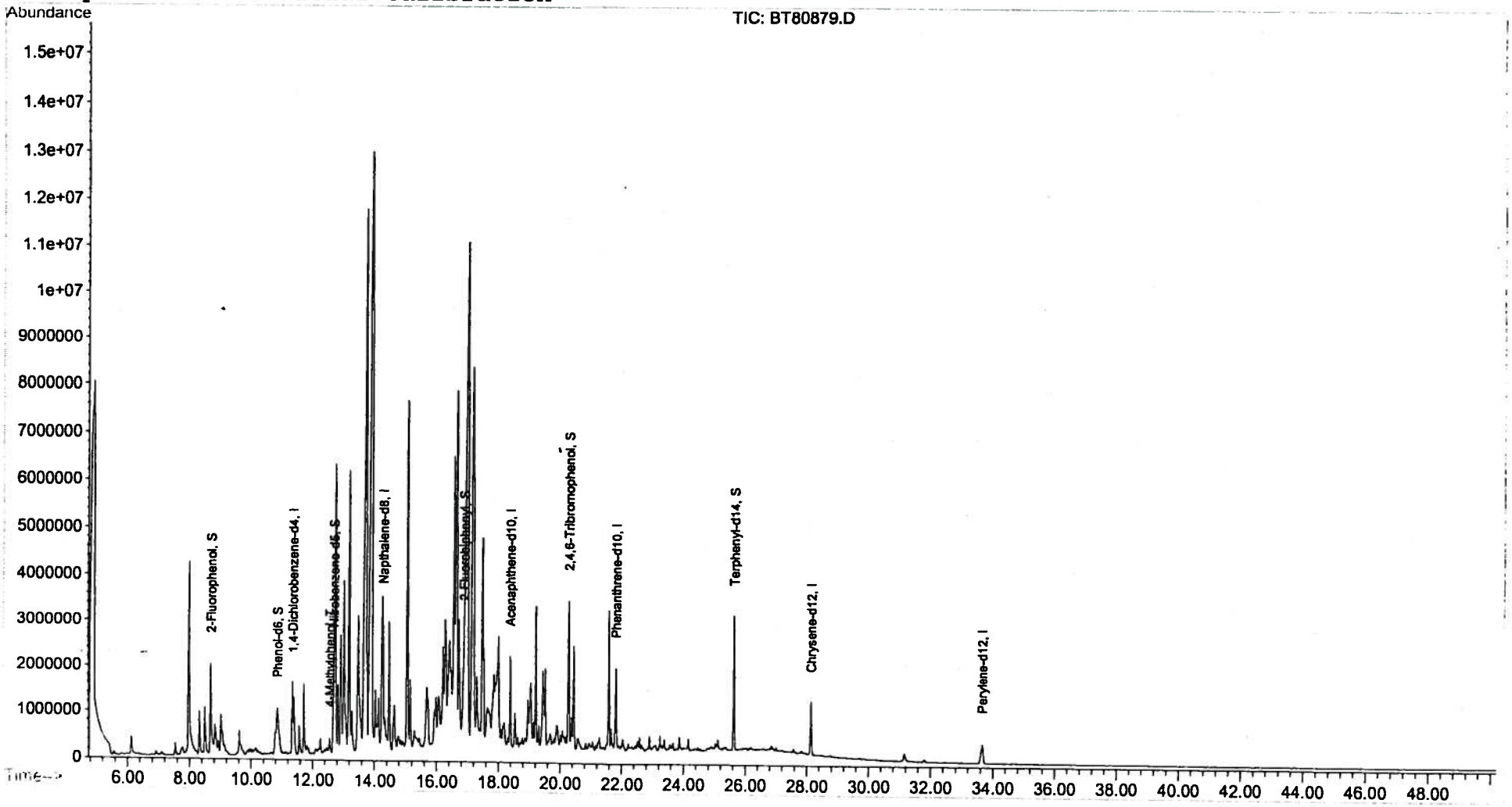
(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\121002\BT80879.D
Acq On : 11 Dec 02 5:50 am
Sample : DUPLICATE
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 12 11:21 19102

Vial: 15
Operator: WTD
Inst : GC/MS Ins
Multiplr: 1.10

Quant Results File: 82701202.RES

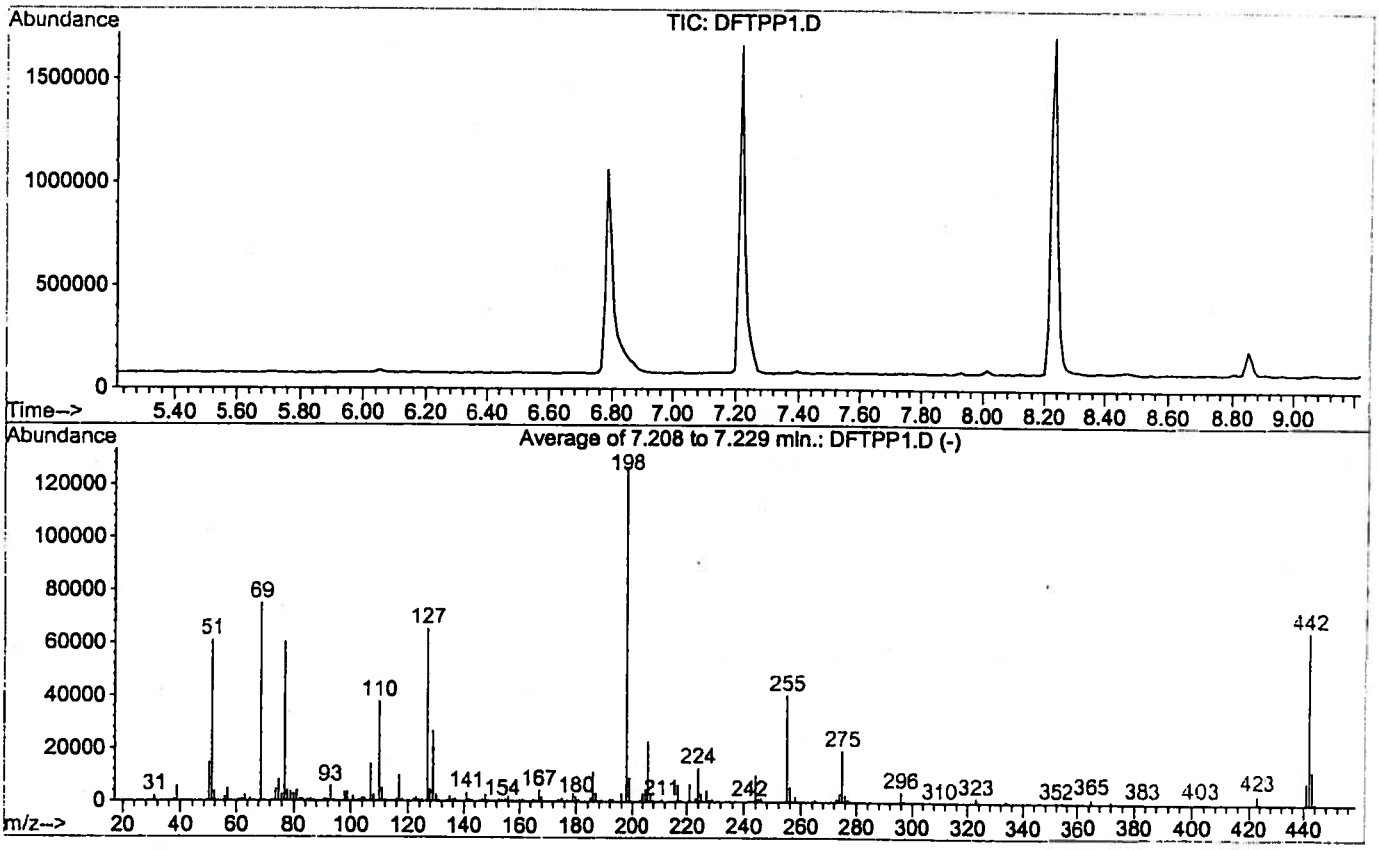
Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration



DFTPP

Data File : C:\HPCHEM\1\DATA\121002\DFTPP1.D
Acq On : 10 Dec 02 3:26 pm
Sample : DFTPP STANDARD
Misc : 12/2/02
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION

Vial: 1
Operator: WTD
Inst : GC/MS Ins
Multiplr: 1.00




AutoFind: Scans 308, 309, 310; Background Corrected with Scan 304

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 30 | 60 | 48.1 | 61067 | PASS |
| 68 | 69 | 0.00 | 2 | 0.0 | 0 | PASS |
| 70 | 69 | 0.00 | 2 | 0.5 | 409 | PASS |
| 127 | 198 | 40 | 60 | 51.6 | 65416 | PASS |
| 197 | 198 | 0.00 | 1 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 126883 | PASS |
| 199 | 198 | 5 | 9 | 7.1 | 8975 | PASS |
| 275 | 198 | 10 | 30 | 15.4 | 19491 | PASS |
| 365 | 198 | 1 | 100 | 1.4 | 1747 | PASS |
| 441 | 443 | 0.01 | 100 | 68.0 | 8671 | PASS |
| 442 | 198 | 40 | 100 | 51.6 | 65518 | PASS |
| 443 | 442 | 17 | 23 | 19.5 | 12745 | PASS |

DFTPP1.D 82701202.M Thu Dec 12 10:27:24 2002

Data File : C:\HPCHEM\1\DATA\120902\1202SPCC.D
Acq On : 9 Dec 02 4:54 pm
Sample : SPCC/CCC STANDARD
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 12 9:35 19102

Vial: 2
Operator: WTD
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 82701202.R

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 11.37 | 152 | 756722 | 40.00 | NG/UL | 0.00 |
| 17) Napthalene-d8 | 14.27 | 136 | 2886357 | 40.00 | NG/UL | -0.01 |
| 32) Acenaphthene-d10 | 18.38 | 164 | 1241894 | 40.00 | NG/UL | 0.00 |
| 53) Phenanthrene-d10 | 21.82 | 188 | 1737898 | 40.00 | NG/UL | 0.00 |
| 64) Chrysene-d12 | 28.13 | 240 | 1085752 | 40.00 | NG/UL | -0.04 |
| 74) Perylene-d12 | 33.67 | 264 | 591988 | 40.00 | NG/UL | -0.01 |

| System Monitoring Compounds | | | | | | |
|---|---|---|---|---|---|---|
| 3) 2-Fluorophenol | 0.00 | 112 | 0 | 0.00 | NG/UL | |
| Spiked Amount 200.000 | Range 21 - 100 | | Recovery = | 0.00%# | | |
| 4) Phenol-d6 | 0.00 | 99 | 0d | 0.00 | NG/UL | |
| Spiked Amount 200.000 | Range 10 - 94 | | Recovery = | 0.00%# | | |
| 18) Nitrobenzene-d5 | 0.00 | 82 | 0d | 0.00 | NG/UL | |
| Spiked Amount 100.000 | Range 35 - 114 | | Recovery = | 0.00%# | | |
| 37) 2-Fluorobiphenyl | 0.00 | 172 | 0d | 0.00 | NG/UL | |
| Spiked Amount 100.000 | Range 43 - 116 | | Recovery = | 0.00%# | | |
| 52) 2,4,6-Tribromophenol | 0.00 | 330 | 0d | 0.00 | NG/UL | |
| Spiked Amount 200.000 | Range 10 - 123 | | Recovery = | 0.00%# | | |
| 66) Terphenyl-d14 | 0.00 | 244 | 0d | 0.00 | NG/UL | |
| Spiked Amount 100.000 | Range 33 - 141 | | Recovery = | 0.00%# | | |

| Target Compounds | | | | | | Qvalue |
|---|---|---|---|---|---|---|
| 2) N-Nitrosodimethylamine | 0.00 | 42 | | N.D. | d | |
| 5) Phenol | 10.78 | 94 | 1798323m | 55.85 | NG/UL | 93 |
| 6) bis(2-Chloroethyl)ether | 0.00 | 93 | | N.D. | d | |
| 7) 2-Chlorophenol | 0.00 | 128 | | N.D. | d | |
| 8) 1,3-Dichlorobenzene | 11.40 | 146 | 1493586m | 54.53 | NG/UL | 98 |
| 9) 1,4-Dichlorobenzene | 11.40 | 146 | 1377332m | 50.94 | NG/UL | 98 |
| 10) 1,2-Dichlorobenzene | 0.00 | 146 | | N.D. | | |
| 11) Benzyl alcohol | 0.00 | 108 | | N.D. | d | |
| 12) 2-Methylphenol | 0.00 | 107 | | N.D. | | |
| 13) 4-Methylphenol | 0.00 | 107 | | N.D. | d | |
| 14) Bis (2-chloroisopropyl) et | 0.00 | 45 | | N.D. | | |
| 15) N-Nitroso-di-propylamine | 12.44 | 70 | 1015884 | 54.89 | NG/UL | 97 |
| 16) Hexachloroethane | 0.00 | 117 | | N.D. | d | |
| 19) Nitrobenzene | 0.00 | 77 | | N.D. | d | |
| 20) Isophorone | 0.00 | 82 | | N.D. | d | |

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\120902\1202SPCC.D
Acq On : 9 Dec 02 4:54 pm
Sample : SPCC/CCC STANDARD
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 12 9:35 19102

Vial: 2
Operator: WTD
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 82701202.I

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 21) 2-Nitrophenol | 13.47 | 139 | 902380m | 55.13 NG/UL | 96 |
| 22) 2,4-Dimethylphenol | 0.00 | 122 | | N.D. d | |
| 23) bis(2-Chloroethoxy)methane | 0.00 | 93 | | N.D. | |
| 24) Benzoic acid | 0.00 | 122 | | N.D. d | |
| 25) 2,4-Dichlorophenol | 14.00 | 162 | 1001704 | 53.08 NG/UL | 95 |
| 26) 1,2,4-Trichlorobenzene | 0.00 | 180 | | N.D. | |
| 27) Naphthalene | 0.00 | 128 | | N.D. d | |
| 28) 4-Chloroaniline | 0.00 | 127 | | N.D. d | |
| 29) Hexachlorobutadiene | 14.75 | 225 | 551786 | 54.99 NG/UL | 98 |
| 30) 4-Chloro-3-methylphenol | 15.70 | 107 | 1030776 | 51.40 NG/UL | 99 |
| 31) 2-Methylnaphthalene | 0.00 | 142 | | N.D. d | |
| 33) Hexachlorocyclopentadiene | 16.44 | 237 | 264547 | 57.00 NG/UL | 98 |
| 34) 2,4,6-Trichlorophenol | 16.67 | 196 | 602711m | 55.29 NG/UL | 97 |
| 35) 2,4,5-Trichlorophenol | 16.67 | 196 | 603099m | 54.21 NG/UL | 94 |
| 36) 2-Chloronaphthalene | 0.00 | 162 | | N.D. d | |
| 38) 2-Nitroaniline | 0.00 | 65 | | N.D. d | |
| 39) 2,4-Dinitrophenol | 18.62 | 184 | 221617 | 48.90 NG/UL | 88 |
| 40) 4-Nitrophenol | 18.84 | 139 | 529281m | 21.97 NG/UL | 14 |
| 41) Dimethylphthalate | 0.00 | 163 | | N.D. d | |
| 42) Acenaphthylene | 0.00 | 152 | | N.D. d | |
| 43) 3-Nitroaniline | 0.00 | 138 | | N.D. d | |
| 44) Acenaphthene | 18.47 | 154 | 1778508m | 55.51 NG/UL | 100 |
| 45) Dibenzofuran | 0.00 | 168 | | N.D. d | |
| 46) 2,4-Dinitrotoluene | 0.00 | 165 | | N.D. d | |
| 47) 2,6-Dinitrotoluene | 0.00 | 165 | | N.D. d | |
| 48) Diethylphthalate | 0.00 | 149 | | N.D. d | |
| 49) 4-Chlorophenyl-phenylether | 0.00 | 204 | | N.D. | |
| 50) Fluorene | 0.00 | 166 | | N.D. d | |
| 51) 4-Nitroaniline | 0.00 | 138 | | N.D. d | |
| 54) 4,6-Dinitro-2-methylphenol | 0.00 | 198 | | N.D. | |
| 55) N-Nitrosodiphenylamine | 19.97 | 169 | 1071592m | 42.19 NG/UL | 98 |
| 56) Diphenylamine | 19.97 | 169 | 1075831m | 42.36 NG/UL | 98 |
| 57) 4-Bromophenyl-phenylether | 0.00 | 248 | | N.D. | |
| 58) Hexachlorobenzene | 0.00 | 284 | | N.D. | |
| 59) Pentachlorophenol | 21.56 | 266 | 325618 | 53.78 NG/UL | 99 |
| 60) Phenanthrene | 0.00 | 178 | | N.D. d | |
| 61) Anthracene | 0.00 | 178 | | N.D. d | |

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\120902\1202SPCC.D
Acq On : 9 Dec 02 4:54 pm
Sample : SPCC/CCC STANDARD
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 12 9:35 19102

Vial: 2
Operator: WTD
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 82701202.R

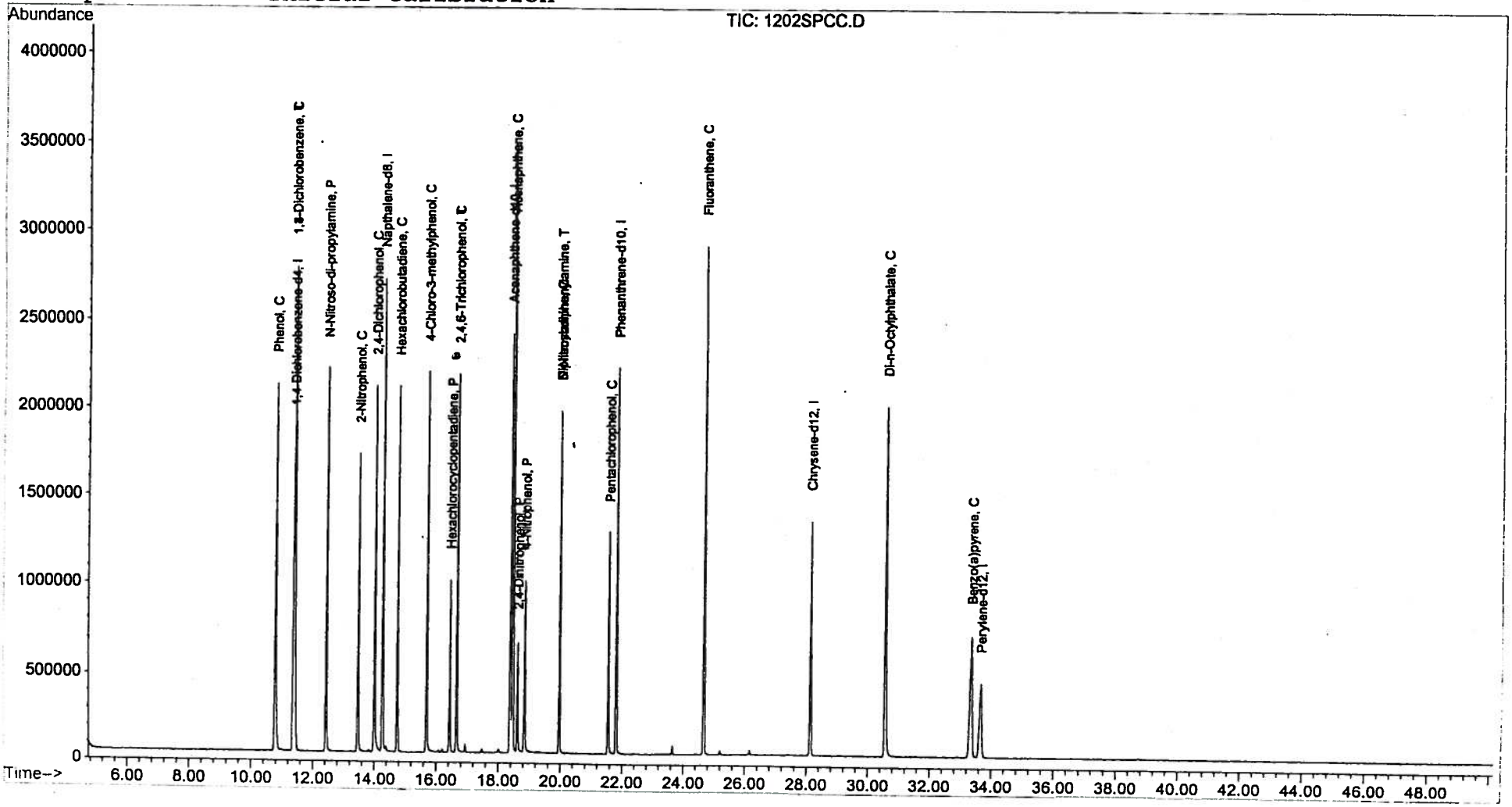
Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 62) Di-n-butylphthalate | 0.00 | 149 | | N.D. d | |
| 63) Fluoranthene | 24.68 | 202 | 2147406m | 48.16 NG/UL | 98 |
| 65) Pyrene | 0.00 | 202 | | N.D. d | |
| 67) Butylbenzylphthalate | 0.00 | 149 | | N.D. d | |
| 68) 3,3'-Dichlorobenzidine | 0.00 | 252 | | N.D. | |
| 69) Benzo(a)anthracene | 0.00 | 228 | | N.D. d | |
| 70) Chrysene | 0.00 | 228 | | N.D. d | |
| 71) bis(2-Ethylhexyl)phthalate | 0.00 | 149 | | N.D. d | |
| 72) Di-n-Octylphthalate | 30.57 | 149 | 1968280m | 51.88 NG/UL | 98 |
| 73) Indeno(1,2,3-cd)pyrene | 0.00 | 276 | | N.D. | |
| 75) Benzo(b)fluoranthene | 0.00 | 252 | | N.D. d | |
| 76) Benzo(k)fluoranthene | 0.00 | 252 | | N.D. d | |
| 77) Benzo(a)pyrene | 33.36 | 252 | 1161071m | 57.17 NG/UL | 98 |
| 78) Dibenz(a,h)anthracene | 0.00 | 278 | | N.D. | |
| 79) Benzo(g,h,i)perylene | 0.00 | 276 | | N.D. | |

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\120902\1202SPCC.D Vial: 2
Acq On : 9 Dec 02 4:54 pm Operator: WTD
Sample : SPCC/CCC STANDARD Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 9:35 19102 Quant Results File: 82701202.RES

Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\120902\1202SPCC.D Vial: 2
Acq On : 9 Dec 02 4:54 pm Operator: WTD
Sample : SPCC/CCC STANDARD Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 89 | 0.00 |
| 2 | | N-Nitrosodimethylamine | 0.855 | 0.000# | 100.0# | 0# | -5.73# |
| 3 | S | 2-Fluorophenol | 1.400 | 0.000# | 100.0# | 0# | -8.67# |
| 4 | S | Phenol-d6 | 1.682 | 0.000# | 100.0# | 0# | -10.80# |
| 5 | C | Phenol | 1.702 | 1.901 | -11.7 | 99 | -0.04 |
| 6 | T | bis(2-Chloroethyl)ether | 1.516 | 0.000# | 100.0# | 0# | -10.92# |
| 7 | M | 2-Chlorophenol | 1.319 | 0.000# | 100.0# | 0# | -10.99# |
| 8 | T | 1,3-Dichlorobenzene | 1.448 | 1.579 | -9.0 | 96 | 0.12 |
| 9 | C | 1,4-Dichlorobenzene | 1.429 | 1.456 | -1.9 | 89 | 0.00 |
| 10 | T | 1,2-Dichlorobenzene | 1.319 | 0.000# | 100.0# | 0# | -11.82# |
| 11 | T | Benzyl alcohol | 1.239 | 0.000# | 100.0# | 0# | -12.09# |
| 12 | T | 2-Methylphenol | 1.034 | 0.000# | 100.0# | 0# | -12.09# |
| | T | 4-Methylphenol | 1.486 | 0.000# | 100.0# | 0# | -12.46# |
| 14 | T | Bis (2-chloroisopropyl) eth | 3.104 | 0.000# | 100.0# | 0# | -12.11# |
| 15 | P | N-Nitroso-di-propylamine | 0.978 | 1.074 | -9.8 | 96 | -0.05 |
| 16 | T | Hexachloroethane | 0.534 | 0.000# | 100.0# | 0# | -12.49# |
| 17 | I | Napthalene-d8 | 1.000 | 1.000 | 0.0 | 99 | -0.01 |
| 18 | S | Nitrobenzene-d5 | 0.378 | 0.000# | 100.0# | 0# | -12.73# |
| 19 | T | Nitrobenzene | 0.388 | 0.000# | 100.0# | 0# | -12.77# |
| 20 | T | Isophorone | 0.791 | 0.000# | 100.0# | 0# | -13.30# |
| 21 | C | 2-Nitrophenol | 0.227 | 0.250 | -10.1 | 105 | -0.01 |
| 22 | T | 2,4-Dimethylphenol | 0.273 | 0.000# | 100.0# | 0# | -13.64# |
| 23 | T | bis(2-Chloroethoxy)methane | 0.482 | 0.000# | 100.0# | 0# | -13.84# |
| 24 | T | Benzoic acid | 0.220 | 0.000# | 100.0# | 0# | -14.17# |
| 25 | C | 2,4-Dichlorophenol | 0.262 | 0.278 | -6.1 | 103 | -0.03 |
| 26 | M | 1,2,4-Trichlorobenzene | 0.250 | 0.000# | 100.0# | 0# | -14.19# |
| 27 | T | Naphthalene | 0.898 | 0.000# | 100.0# | 0# | -14.33# |
| 28 | T | 4-Chloroaniline | 0.372 | 0.000# | 100.0# | 0# | -14.55# |
| 29 | C | Hexachlorobutadiene | 0.139 | 0.153 | -10.1 | 107 | 0.00 |
| 30 | C | 4-Chloro-3-methylphenol | 0.278 | 0.286 | -2.9 | 98 | 0.00 |
| 31 | T | 2-Methylnaphthalene | 0.607 | 0.000# | 100.0# | 0# | -15.92# |
| 32 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 99 | 0.00 |
| 33 | P | Hexachlorocyclopentadiene | 0.149 | 0.170 | -14.1 | 110 | 0.00 |
| 34 | C | 2,4,6-Trichlorophenol | 0.351 | 0.388 | -10.5 | 107 | 0.00 |
| | T | 2,4,5-Trichlorophenol | 0.358 | 0.389 | -8.7 | 104 | -0.09 |

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\120902\1202SPCC.D Vial: 2
Acq On : 9 Dec 02 4:54 pm Operator: WTD
Sample : SPCC/CCC STANDARD Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 36 | T | 2-Chloronaphthalene | 1.087 | 0.000# | 100.0# | 0# | -17.06# |
| 37 | S | 2-Fluorobiphenyl | 1.162 | 0.000# | 100.0# | 0# | -16.86# |
| 38 | T | 2-Nitroaniline | 0.465 | 0.000# | 100.0# | 0# | -17.43# |
| 39 | P | 2,4-Dinitrophenol | 0.146 | 0.143 | 2.1 | 98 | -0.03 |
| 40 | P | 4-Nitrophenol | 0.776 | 0.341 | 56.1# | 42# | -0.01 |
| 41 | T | Dimethylphthalate | 1.275 | 0.000# | 100.0# | 0# | -17.95# |
| 42 | T | Acenaphthylene | 1.854 | 0.000# | 100.0# | 0# | -18.04# |
| 43 | T | 3-Nitroaniline | 0.386 | 0.000# | 100.0# | 0# | -18.43# |
| 44 | C | Acenaphthene | 1.032 | 1.146 | -11.0 | 107 | -0.01 |
| 45 | T | Dibenzofuran | 1.374 | 0.000# | 100.0# | 0# | -18.85# |
| 46 | M | 2,4-Dinitrotoluene | 0.392 | 0.000# | 100.0# | 0# | -19.02# |
| 47 | T | 2,6-Dinitrotoluene | 0.324 | 0.000# | 100.0# | 0# | -18.12# |
| 48 | T | Diethylphthalate | 1.256 | 0.000# | 100.0# | 0# | -19.61# |
| 49 | T | 4-Chlorophenyl-phenylether | 0.498 | 0.000# | 100.0# | 0# | -19.68# |
| 50 | T | Fluorene | 1.031 | 0.000# | 100.0# | 0# | -19.66# |
| 51 | T | 4-Nitroaniline | 0.335 | 0.000# | 100.0# | 0# | -19.93# |
| 52 | S | 2,4,6-Tribromophenol | 0.159 | 0.000# | 100.0# | 0# | -20.29# |
| 53 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 111 | 0.00 |
| 54 | T | 4,6-Dinitro-2-methylphenol | 0.157 | 0.000# | 100.0# | 0# | -19.98# |
| 55 | T | N-Nitrosodiphenylamine | 0.585 | 0.493 | 15.7 | 92 | -0.05 |
| 56 | C | Diphenylamine | 0.585 | 0.495 | 15.4 | 92 | -0.05 |
| 57 | T | 4-Bromophenyl-phenylether | 0.213 | 0.000# | 100.0# | 0# | -20.81# |
| 58 | T | Hexachlorobenzene | 0.215 | 0.000# | 100.0# | 0# | -21.14# |
| 59 | C | Pentachlorophenol | 0.139 | 0.150 | -7.9 | 113 | -0.02 |
| 60 | T | Phenanthrene | 0.977 | 0.000# | 100.0# | 0# | -21.90# |
| 61 | T | Anthracene | 0.976 | 0.000# | 100.0# | 0# | -22.00# |
| 62 | T | Di-n-butylphthalate | 1.605 | 0.000# | 100.0# | 0# | -23.41# |
| 63 | C | Fluoranthene | 1.026 | 0.989 | 3.6 | 105 | -0.01 |
| 64 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 126 | -0.04 |
| 65 | M | Pyrene | 1.764 | 0.000# | 100.0# | 0# | -25.21# |
| 66 | S | Terphenyl-d14 | 1.038 | 0.000# | 100.0# | 0# | -25.64# |
| 67 | T | Butylbenzylphthalate | 0.989 | 0.000# | 100.0# | 0# | -26.91# |
| 68 | T | 3,3'-Dichlorobenzidine | 0.175 | 0.000# | 100.0# | 0# | -28.15# |
| 69 | T | Benzo(a)anthracene | 1.207 | 0.000# | 100.0# | 0# | -28.12# |
| 70 | T | Chrysene | 1.045 | 0.000# | 100.0# | 0# | -28.25# |

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\120902\1202SPCC.D  Vial: 2
Acq On : 9 Dec 02 4:54 pm  Operator: WTD
Sample : SPCC/CCC STANDARD  Inst : GC/MS Ins
Misc :  Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Multiple Level Calibration

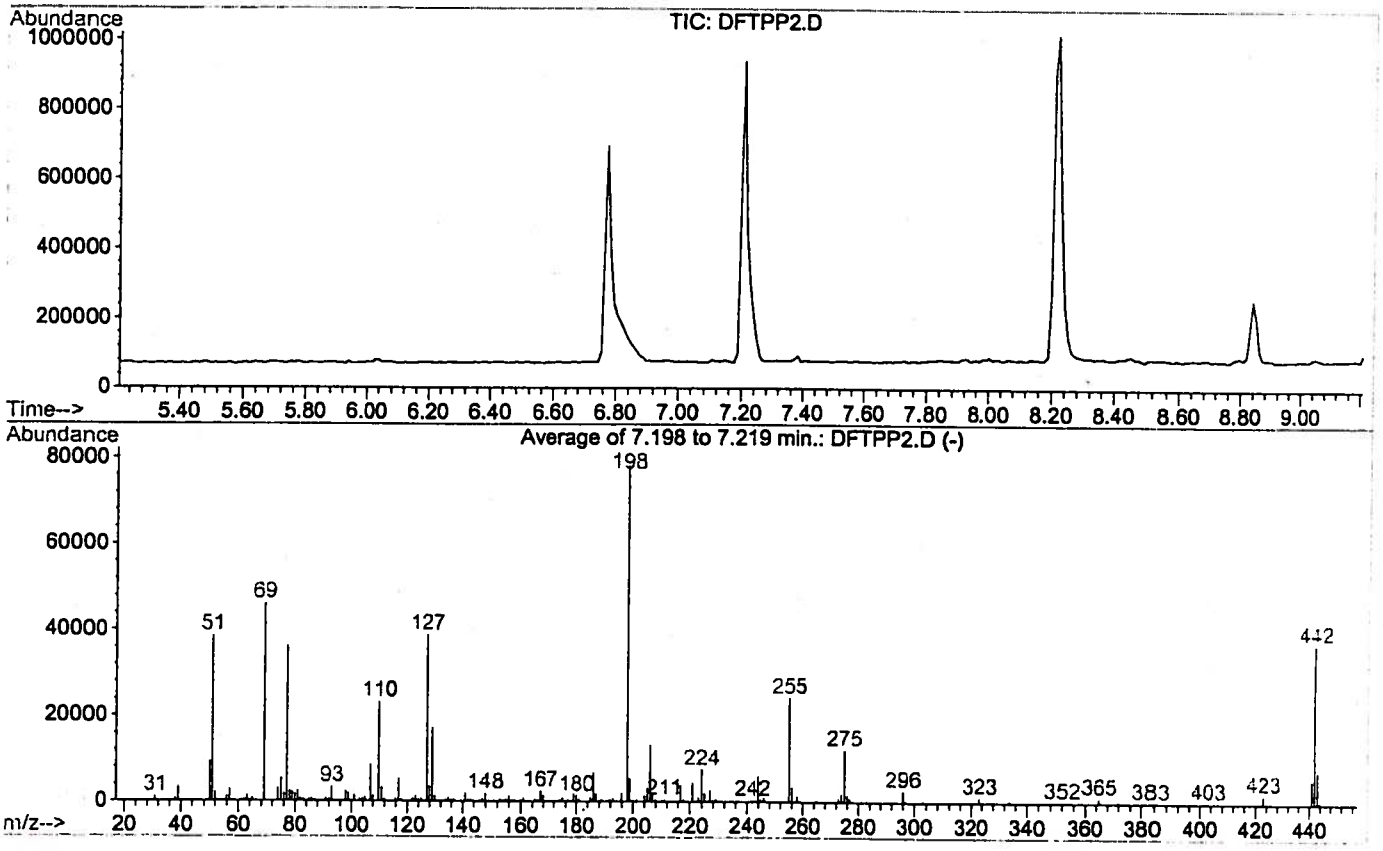
Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 71 | T | bis(2-Ethylhexyl)phthalate | 0.998 | 0.000# | 100.0# | 0# | -28.48# |
| 72 | C | Di-n-Octylphthalate | 1.398 | 1.450 | -3.7 | 137 | -0.03 |
| 73 | T | Indeno(1,2,3-cd)pyrene | 0.385 | 0.000# | 100.0# | 0# | -40.78# |
| 74 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 184 | -0.01 |
| 75 | T | Benzo(b)fluoranthene | 1.623 | 0.000# | 100.0# | 0# | -31.90# |
| 76 | T | Benzo(k)fluoranthene | 1.580 | 0.000# | 100.0# | 0# | -32.03# |
| 77 | C | Benzo(a)pyrene | 1.372 | 1.569 | -14.4 | 200# | -0.05 |
| 78 | T | Dibenz(a,h)anthracene | 0.848 | 0.000# | 100.0# | 0# | -41.13# |
| 79 | T | Benzo(g,h,i)perylene | 0.900 | 0.000# | 100.0# | 0# | -42.98# |

DFTPP

Data File : C:\HPCHEM\1\DATA\121002\DFTPP2.D
Acq On : 11 Dec 02 1:35 am
Sample : DFTPP STANDARD
Misc : 12/2/02
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION

Vial: 1
Operator: WTD
Inst : GC/MS Ins
Multiplr: 1.00

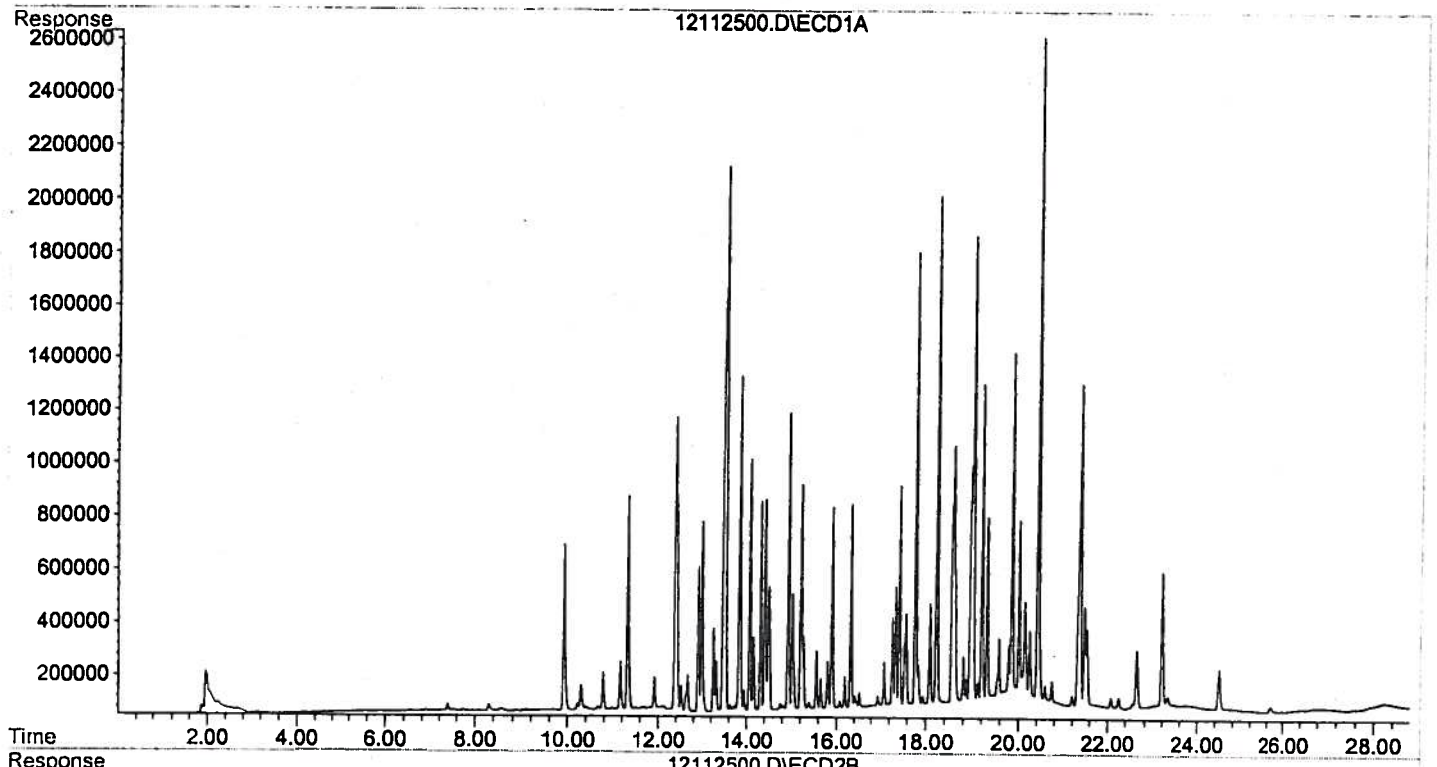


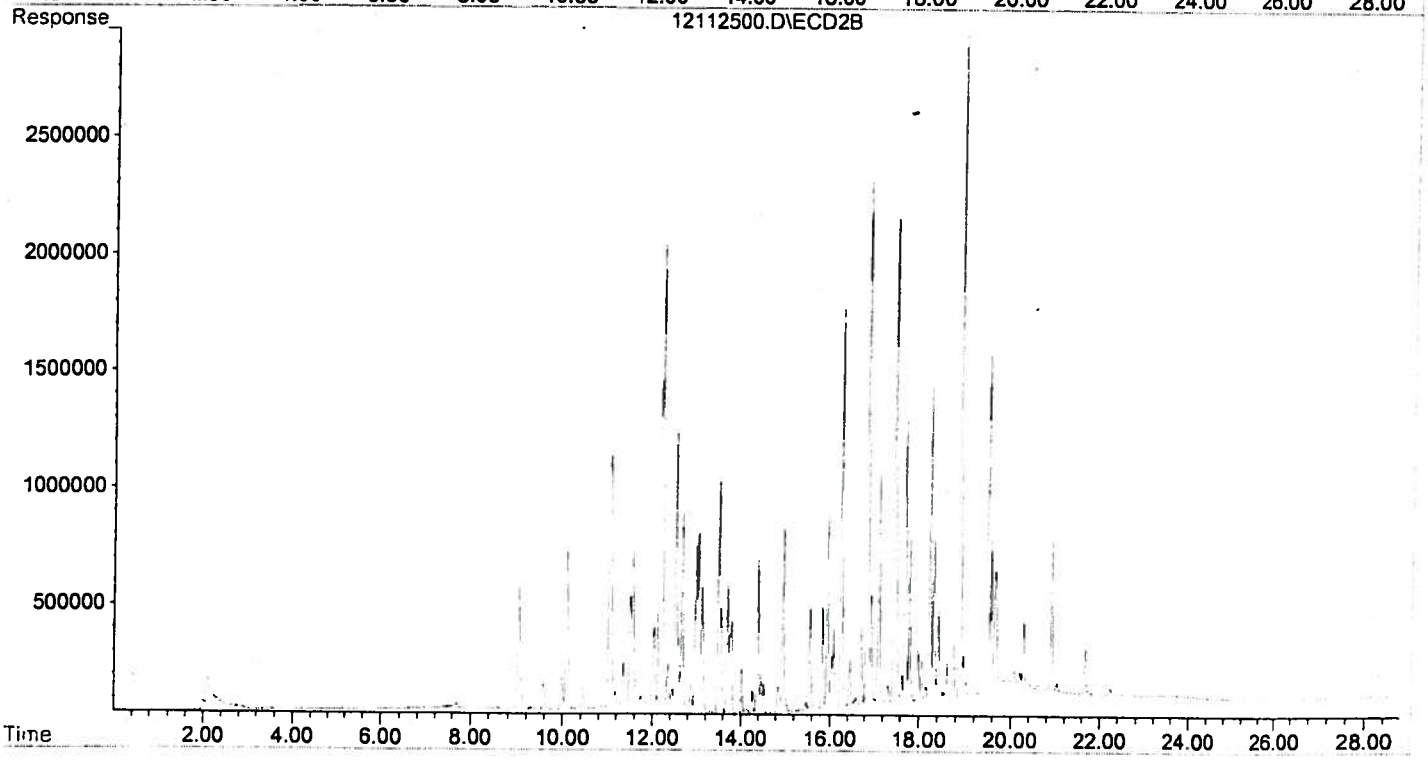

AutoFind: Scans 307, 308, 309; Background Corrected with Scan 303

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 30 | 60 | 49.3 | 38535 | PASS |
| 68 | 69 | 0.00 | 2 | 0.0 | 0 | PASS |
| 70 | 69 | 0.00 | 2 | 0.4 | 174 | PASS |
| 127 | 198 | 40 | 60 | 49.7 | 38803 | PASS |
| 197 | 198 | 0.00 | 1 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 78104 | PASS |
| 199 | 198 | 5 | 9 | 6.9 | 5427 | PASS |
| 275 | 198 | 10 | 30 | 15.5 | 12126 | PASS |
| 365 | 198 | 1 | 100 | 1.5 | 1159 | PASS |
| 441 | 443 | 0.01 | 100 | 74.3 | 5549 | PASS |
| 442 | 198 | 40 | 100 | 47.4 | 37020 | PASS |
| 443 | 442 | 17 | 23 | 20.2 | 7471 | PASS |

DFTPP2.D 82701202.M Thu Dec 12 10:58:03 2002

File : C:\HPCHEM\1\DATA\120902A\12112500.D
Operator : DES
Acquired : 12-11-02 2:21:38 PM using AcqMethod 8082.M
Instrument : GC-6890
Sample Name: soil cal pt (2500 ppb)
Misc Info : BURR & FORMAN LLP, BIRMMINGHAM, ALA
Vial Number: 12



Data File : C:\HPCHEM\1\DATA\121002\BT80864.D
Acq On : 10 Dec 02 9:44 pm
Sample : HERCULES MW-11
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 12 10:43 19102

Vial: 7
Operator: WTD
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 82701202.R

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 11.35 | 152 | 699983 | 40.00 | NG/UL | -0.01 |
| 17) Napthalene-d8 | 14.25 | 136 | 2740725 | 40.00 | NG/UL | -0.03 |
| 32) Acenaphthene-d10 | 18.38 | 164 | 1105237 | 40.00 | NG/UL | 0.00 |
| 53) Phenanthrene-d10 | 21.81 | 188 | 1375901 | 40.00 | NG/UL | -0.01 |
| 64) Chrysene-d12 | 28.14 | 240 | 717618 | 40.00 | NG/UL | -0.03 |
| 74) Perylene-d12 | 33.66 | 264 | 386195 | 40.00 | NG/UL | -0.01 |
| **System Monitoring Compounds** | | | | | | |
| 3) 2-Fluorophenol | 8.68 | 112 | 2640553 | 107.78 | NG/UL | 0.00 |
| Spiked Amount 200.000 | Range 21 - 100 | | Recovery = 53.89% | | | |
| 4) Phenol-d6 | 10.78 | 99 | 2263729 | 76.92 | NG/UL | -0.02 |
| Spiked Amount 200.000 | Range 10 - 94 | | Recovery = 38.46% | | | |
| 18) Nitrobenzene-d5 | 12.69 | 82 | 1914118 | 73.90 | NG/UL | -0.04 |
| Spiked Amount 100.000 | Range 35 - 114 | | Recovery = 73.90% | | | |
| 37) 2-Fluorobiphenyl | 16.84 | 172 | 2872735 | 89.47 | NG/UL | -0.02 |
| Spiked Amount 100.000 | Range 43 - 116 | | Recovery = 89.47% | | | |
| 52) 2,4,6-Tribromophenol | 20.28 | 330 | 771295m | 175.60 | NG/UL | 0.00 |
| Spiked Amount 200.000 | Range 10 - 123 | | Recovery = 87.80% | | | |
| 66) Terphenyl-d14 | 25.64 | 244 | 1853970 | 99.54 | NG/UL | 0.00 |
| Spiked Amount 100.000 | Range 33 - 141 | | Recovery = 99.54% | | | |

| Target Compounds | | | Qvalue |
|---|---|---|---|
| 2) N-Nitrosodimethylamine | 0.00 | 42 | N.D. d |
| 5) Phenol | 0.00 | 94 | N.D. d |
| 6) bis(2-Chloroethyl)ether | 0.00 | 93 | N.D. d |
| 7) 2-Chlorophenol | 0.00 | 128 | N.D. d |
| 8) 1,3-Dichlorobenzene | 0.00 | 146 | N.D. d |
| 9) 1,4-Dichlorobenzene | 0.00 | 146 | N.D. d |
| 10) 1,2-Dichlorobenzene | 0.00 | 146 | N.D. d |
| 11) Benzyl alcohol | 0.00 | 108 | N.D. d |
| 12) 2-Methylphenol | 0.00 | 107 | N.D. d |
| 13) 4-Methylphenol | 0.00 | 107 | N.D. d |
| 14) Bis (2-chloroisopropyl) et | 0.00 | 45 | N.D. d |
| 15) N-Nitroso-di-propylamine | 0.00 | 70 | N.D. d |
| 16) Hexachloroethane | 0.00 | 117 | N.D. d |
| 19) Nitrobenzene | 0.00 | 77 | N.D. d |
| 20) Isophorone | 0.00 | 82 | N.D. d |

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\121002\BT80864.D Vial: 7
Acq On : 10 Dec 02 9:44 pm Operator: WTD
Sample : HERCULES MW-11 Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 10:43 19102 Quant Results File: 82701202.R

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 21) | 2-Nitrophenol | 0.00 | 139 | | N.D. d | |
| 22) | 2,4-Dimethylphenol | 0.00 | 122 | | N.D. d | |
| 23) | bis(2-Chloroethoxy)methane | 0.00 | 93 | | N.D. d | |
| 24) | Benzoic acid | 0.00 | 122 | | N.D. d | |
| 25) | 2,4-Dichlorophenol | 0.00 | 162 | | N.D. | |
| 26) | 1,2,4-Trichlorobenzene | 0.00 | 180 | | N.D. | |
| 27) | Naphthalene | 0.00 | 128 | | N.D. d | |
| 28) | 4-Chloroaniline | 0.00 | 127 | | N.D. d | |
| 29) | Hexachlorobutadiene | 0.00 | 225 | | N.D. | |
| 30) | 4-Chloro-3-methylphenol | 0.00 | 107 | | N.D. d | |
| 31) | 2-Methylnaphthalene | 0.00 | 142 | | N.D. d | |
| 33) | Hexachlorocyclopentadiene | 0.00 | 237 | | N.D. | |
| 34) | 2,4,6-Trichlorophenol | 0.00 | 196 | | N.D. | |
| 35) | 2,4,5-Trichlorophenol | 0.00 | 196 | | N.D. | |
| 36) | 2-Chloronaphthalene | 0.00 | 162 | | N.D. d | |
| 38) | 2-Nitroaniline | 0.00 | 65 | | N.D. d | |
| 39) | 2,4-Dinitrophenol | 0.00 | 184 | | N.D. d | |
| 40) | 4-Nitrophenol | 0.00 | 139 | | N.D. d | |
| 41) | Dimethylphthalate | 0.00 | 163 | | N.D. d | |
| 42) | Acenaphthylene | 0.00 | 152 | | N.D. d | |
| 43) | 3-Nitroaniline | 0.00 | 138 | | N.D. d | |
| 44) | Acenaphthene | 0.00 | 154 | | N.D. d | |
| 45) | Dibenzofuran | 0.00 | 168 | | N.D. d | |
| 46) | 2,4-Dinitrotoluene | 0.00 | 165 | | N.D. d | |
| 47) | 2,6-Dinitrotoluene | 0.00 | 165 | | N.D. d | |
| 48) | Diethylphthalate | 0.00 | 149 | | N.D. d | |
| 49) | 4-Chlorophenyl-phenylether | 0.00 | 204 | | N.D. d | |
| 50) | Fluorene | 0.00 | 166 | | N.D. d | |
| 51) | 4-Nitroaniline | 0.00 | 138 | | N.D. d | |
| 54) | 4,6-Dinitro-2-methylphenol | 0.00 | 198 | | N.D. d | |
| 55) | N-Nitrosodiphenylamine | 0.00 | 169 | | N.D. d | |
| 56) | Diphenylamine | 0.00 | 169 | | N.D. d | |
| 57) | 4-Bromophenyl-phenylether | 0.00 | 248 | | N.D. | |
| 58) | Hexachlorobenzene | 0.00 | 284 | | N.D. | |
| 59) | Pentachlorophenol | 0.00 | 266 | | N.D. | |
| 60) | Phenanthrene | 0.00 | 178 | | N.D. d | |
| 61) | Anthracene | 0.00 | 178 | | N.D. d | |

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\121002\BT80864.D
Acq On : 10 Dec 02 9:44 pm
Sample : HERCULES MW-11
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 12 10:43 19102

Vial: 7
Operator: WTD
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 82701202.R

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 62) Di-n-butylphthalate | 0.00 | 149 | | N.D. d | |
| 63) Fluoranthene | 0.00 | 202 | | N.D. d | |
| 65) Pyrene | 0.00 | 202 | | N.D. d | |
| 67) Butylbenzylphthalate | 0.00 | 149 | | N.D. d | |
| 68) 3,3'-Dichlorobenzidine | 0.00 | 252 | | N.D. d | |
| 69) Benzo(a)anthracene | 0.00 | 228 | | N.D. d | |
| 70) Chrysene | 0.00 | 228 | | N.D. d | |
| 71) bis(2-Ethylhexyl)phthalate | 0.00 | 149 | | N.D. d | |
| 72) Di-n-Octylphthalate | 0.00 | 149 | | N.D. d | |
| 73) Indeno(1,2,3-cd)pyrene | 0.00 | 276 | | N.D. | |
| 75) Benzo(b)fluoranthene | 0.00 | 252 | | N.D. d | |
| 76) Benzo(k)fluoranthene | 0.00 | 252 | | N.D. d | |
| 77) Benzo(a)pyrene | 0.00 | 252 | | N.D. d | |
| 78) Dibenz(a,h)anthracene | 0.00 | 278 | | N.D. | |
| 79) Benzo(g,h,i)perylene | 0.00 | 276 | | N.D. | |

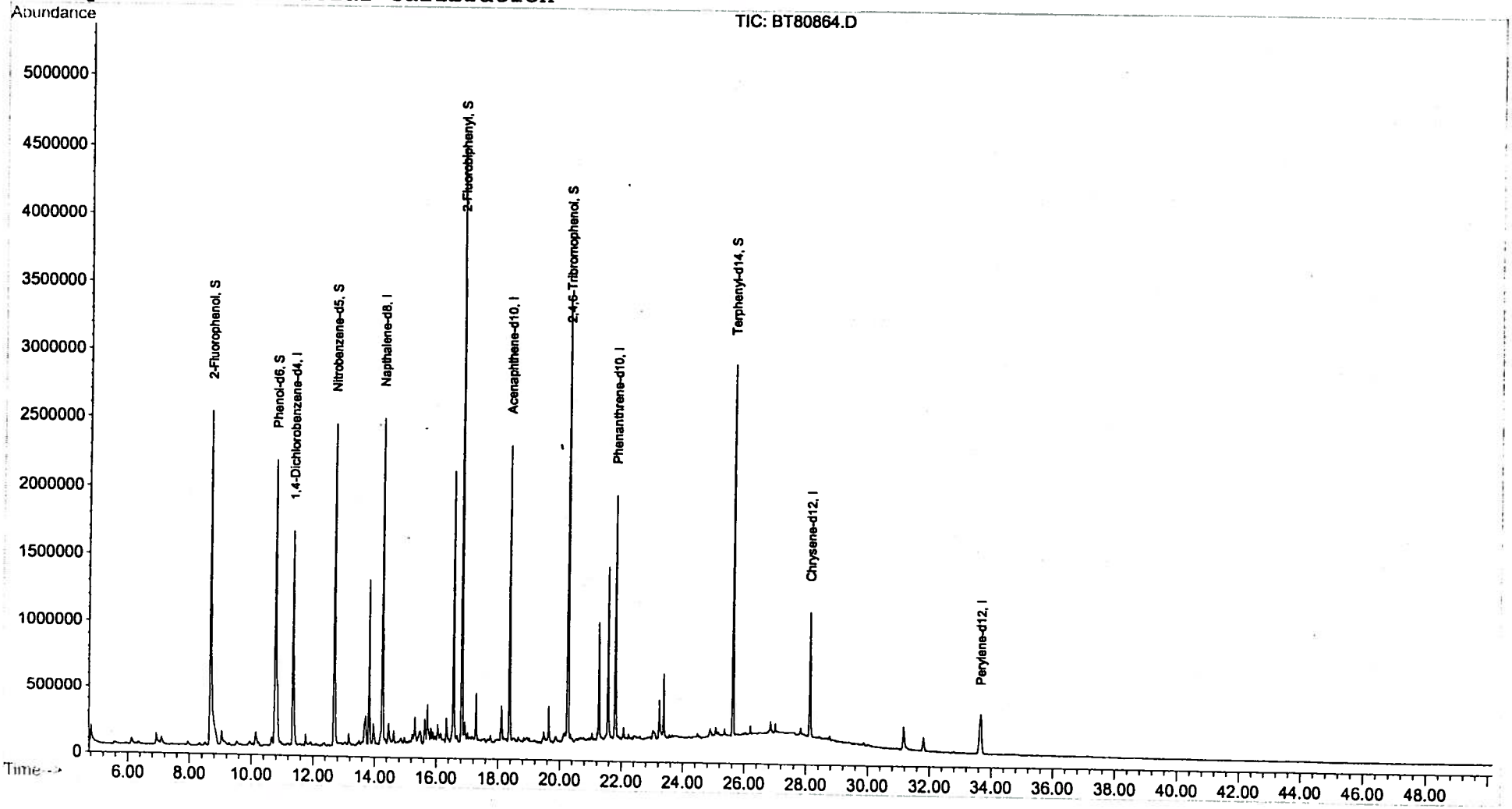
(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\121002\BT80864.D
Acq On : 10 Dec 02 9:44 pm
Sample : HERCULES MW-11
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 12 10:43 19102

Vial: 7
Operator: WTD
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 82701202.RES

Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\121002\BT80867.D  Vial: 8
Acq On : 10 Dec 02 10:43 pm  Operator: WTD
Sample : HERCULES MW-10  Inst : GC/MS Ins
Misc :  Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 10:45 19102  Quant Results File: 82701202.R

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 11.36 | 152 | 758683 | 40.00 | NG/UL | 0.00 |
| 17) Napthalene-d8 | 14.26 | 136 | 2994860 | 40.00 | NG/UL | -0.02 |
| 32) Acenaphthene-d10 | 18.38 | 164 | 1227064 | 40.00 | NG/UL | 0.00 |
| 53) Phenanthrene-d10 | 21.81 | 188 | 1487702 | 40.00 | NG/UL | -0.02 |
| 64) Chrysene-d12 | 28.13 | 240 | 798997 | 40.00 | NG/UL | -0.04 |
| 74) Perylene-d12 | 33.65 | 264 | 401975 | 40.00 | NG/UL | -0.03 |
| **System Monitoring Compounds** | | | | | | |
| 3) 2-Fluorophenol | 8.67 | 112 | 2494445 | 93.94 | NG/UL | 0.00 |
| Spiked Amount 200.000 | Range 21 - 100 | | Recovery = 46.97% | | | |
| 4) Phenol-d6 | 10.78 | 99 | 1989497 | 62.37 | NG/UL | -0.02 |
| Spiked Amount 200.000 | Range 10 - 94 | | Recovery = 31.19% | | | |
| 18) Nitrobenzene-d5 | 12.70 | 82 | 1884627 | 66.59 | NG/UL | -0.03 |
| Spiked Amount 100.000 | Range 35 - 114 | | Recovery = 66.59% | | | |
| 37) 2-Fluorobiphenyl | 16.84 | 172 | 2805134 | 78.69 | NG/UL | -0.03 |
| Spiked Amount 100.000 | Range 43 - 116 | | Recovery = 78.69% | | | |
| 52) 2,4,6-Tribromophenol | 20.28 | 330 | 922537 | 189.18 | NG/UL | -0.01 |
| Spiked Amount 200.000 | Range 10 - 123 | | Recovery = 94.59% | | | |
| 66) Terphenyl-d14 | 25.64 | 244 | 1893959 | 91.33 | NG/UL | 0.00 |
| Spiked Amount 100.000 | Range 33 - 141 | | Recovery = 91.33% | | | |

| Target Compounds | | | Qvalue |
|---|---|---|---|
| 2) N-Nitrosodimethylamine | 0.00 | 42 | N.D. d |
| 5) Phenol | 0.00 | 94 | N.D. d |
| 6) bis(2-Chloroethyl)ether | 0.00 | 93 | N.D. d |
| 7) 2-Chlorophenol | 0.00 | 128 | N.D. d |
| 8) 1,3-Dichlorobenzene | 0.00 | 146 | N.D. d |
| 9) 1,4-Dichlorobenzene | 0.00 | 146 | N.D. d |
| 10) 1,2-Dichlorobenzene | 0.00 | 146 | N.D. d |
| 11) Benzyl alcohol | 0.00 | 108 | N.D. |
| 12) 2-Methylphenol | 0.00 | 107 | N.D. d |
| 13) 4-Methylphenol | 0.00 | 107 | N.D. d |
| 14) Bis (2-chloroisopropyl) et | 0.00 | 45 | N.D. d |
| 15) N-Nitroso-di-propylamine | 0.00 | 70 | N.D. d |
| 16) Hexachloroethane | 0.00 | 117 | N.D. d |
| 19) Nitrobenzene | 0.00 | 77 | N.D. d |
| 20) Isophorone | 0.00 | 82 | N.D. d |

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\121002\BT80867.D Vial: 8
Acq On : 10 Dec 02 10:43 pm Operator: WTD
Sample : HERCULES MW-10 Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 10:45 19102 Quant Results File: 82701202.R

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 21) | 2-Nitrophenol | 0.00 | 139 | | N.D. d | |
| 22) | 2,4-Dimethylphenol | 0.00 | 122 | | N.D. d | |
| 23) | bis(2-Chloroethoxy)methane | 0.00 | 93 | | N.D. d | |
| 24) | Benzoic acid | 0.00 | 122 | | N.D. d | |
| 25) | 2,4-Dichlorophenol | 0.00 | 162 | | N.D. | |
| 26) | 1,2,4-Trichlorobenzene | 0.00 | 180 | | N.D. | |
| 27) | Naphthalene | 0.00 | 128 | | N.D. d | |
| 28) | 4-Chloroaniline | 0.00 | 127 | | N.D. d | |
| 29) | Hexachlorobutadiene | 0.00 | 225 | | N.D. | |
| 30) | 4-Chloro-3-methylphenol | 0.00 | 107 | | N.D. d | |
| 31) | 2-Methylnaphthalene | 0.00 | 142 | | N.D. d | |
| 33) | Hexachlorocyclopentadiene | 0.00 | 237 | | N.D. | |
| 34) | 2,4,6-Trichlorophenol | 0.00 | 196 | | N.D. | |
| 35) | 2,4,5-Trichlorophenol | 0.00 | 196 | | N.D. | |
| 36) | 2-Chloronaphthalene | 0.00 | 162 | | N.D. d | |
| 38) | 2-Nitroaniline | 0.00 | 65 | | N.D. d | |
| 39) | 2,4-Dinitrophenol | 0.00 | 184 | | N.D. | |
| 40) | 4-Nitrophenol | 0.00 | 139 | | N.D. d | |
| 41) | Dimethylphthalate | 0.00 | 163 | | N.D. d | |
| 42) | Acenaphthylene | 0.00 | 152 | | N.D. d | |
| 43) | 3-Nitroaniline | 0.00 | 138 | | N.D. d | |
| 44) | Acenaphthene | 0.00 | 154 | | N.D. d | |
| 45) | Dibenzofuran | 0.00 | 168 | | N.D. d | |
| 46) | 2,4-Dinitrotoluene | 0.00 | 165 | | N.D. d | |
| 47) | 2,6-Dinitrotoluene | 0.00 | 165 | | N.D. d | |
| 48) | Diethylphthalate | 0.00 | 149 | | N.D. d | |
| 49) | 4-Chlorophenyl-phenylether | 0.00 | 204 | | N.D. d | |
| 50) | Fluorene | 0.00 | 166 | | N.D. | |
| 51) | 4-Nitroaniline | 0.00 | 138 | | N.D. d | |
| 54) | 4,6-Dinitro-2-methylphenol | 0.00 | 198 | | N.D. d | |
| 55) | N-Nitrosodiphenylamine | 0.00 | 169 | | N.D. d | |
| 56) | Diphenylamine | 0.00 | 169 | | N.D. d | |
| 57) | 4-Bromophenyl-phenylether | 0.00 | 248 | | N.D. | |
| 58) | Hexachlorobenzene | 0.00 | 284 | | N.D. | |
| 59) | Pentachlorophenol | 0.00 | 266 | | N.D. | |
| 60) | Phenanthrene | 0.00 | 178 | | N.D. d | |
| 61) | Anthracene | 0.00 | 178 | | N.D. d | |

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\121002\BT80867.D Vial: 8
Acq On : 10 Dec 02 10:43 pm Operator: WTD
Sample : HERCULES MW-10 Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 10:45 19102 Quant Results File: 82701202.R

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 62) Di-n-butylphthalate | 0.00 | 149 | | N.D. d | |
| 63) Fluoranthene | 0.00 | 202 | | N.D. d | |
| 65) Pyrene | 0.00 | 202 | | N.D. d | |
| 67) Butylbenzylphthalate | 0.00 | 149 | | N.D. d | |
| 68) 3,3'-Dichlorobenzidine | 0.00 | 252 | | N.D. d | |
| 69) Benzo(a)anthracene | 0.00 | 228 | | N.D. d | |
| 70) Chrysene | 0.00 | 228 | | N.D. d | |
| 71) bis(2-Ethylhexyl)phthalate | 0.00 | 149 | | N.D. d | |
| 72) Di-n-Octylphthalate | 0.00 | 149 | | N.D. d | |
| 73) Indeno(1,2,3-cd)pyrene | 0.00 | 276 | | N.D. | |
| 75) Benzo(b)fluoranthene | 0.00 | 252 | | N.D. | |
| 76) Benzo(k)fluoranthene | 0.00 | 252 | | N.D. | |
| 77) Benzo(a)pyrene | 0.00 | 252 | | N.D. d | |
| 78) Dibenz(a,h)anthracene | 0.00 | 278 | | N.D. | |
| 79) Benzo(g,h,i)perylene | 0.00 | 276 | | N.D. | |

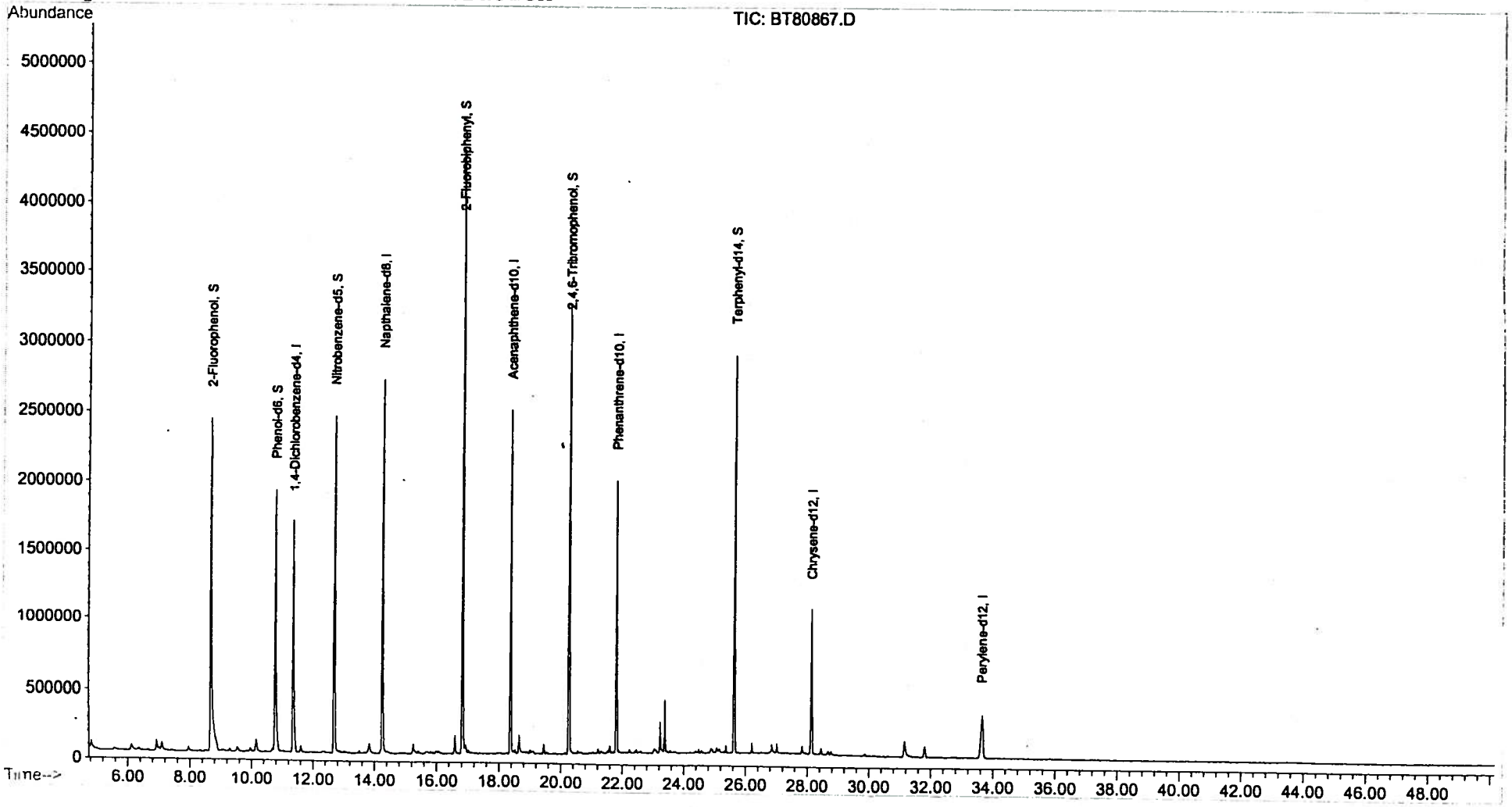
(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\121002\BT80867.D
Acq On : 10 Dec 02 10:43 pm
Sample : HERCULES MW-10
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 12 10:45 19102

Vial: 8
Operator: WTD
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 82701202.RES

Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\121002\BT80868.D  Vial: 9
Acq On : 10 Dec 02 11:42 pm  Operator: WTD
Sample : HERCULES MW-7  Inst : GC/MS Ins
Misc :  Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 10:53 19102  Quant Results File: 82701202.RI

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 11.35 | 152 | 721472 | 40.00 | NG/UL | -0.02 |
| 17) Napthalene-d8 | 14.26 | 136 | 2832760 | 40.00 | NG/UL | -0.02 |
| 32) Acenaphthene-d10 | 18.38 | 164 | 1149762 | 40.00 | NG/UL | 0.00 |
| 53) Phenanthrene-d10 | 21.81 | 188 | 1423001 | 40.00 | NG/UL | -0.02 |
| 64) Chrysene-d12 | 28.13 | 240 | 854911 | 40.00 | NG/UL | -0.04 |
| 74) Perylene-d12 | 33.66 | 264 | 513815 | 40.00 | NG/UL | -0.02 |
| **System Monitoring Compounds** | | | | | | |
| 3) 2-Fluorophenol | 8.67 | 112 | 2506790 | 99.28 | NG/UL | 0.00 |
| Spiked Amount 200.000 | Range 21 - 100 | | Recovery = 49.64% | | | |
| 4) Phenol-d6 | 10.78 | 99 | 2154441 | 71.03 | NG/UL | -0.02 |
| Spiked Amount 200.000 | Range 10 - 94 | | Recovery = 35.52% | | | |
| 18) Nitrobenzene-d5 | 12.70 | 82 | 1782805 | 66.59 | NG/UL | -0.03 |
| Spiked Amount 100.000 | Range 35 - 114 | | Recovery = 66.59% | | | |
| 37) 2-Fluorobiphenyl | 16.84 | 172 | 2760488 | 82.64 | NG/UL | -0.03 |
| Spiked Amount 100.000 | Range 43 - 116 | | Recovery = 82.64% | | | |
| 52) 2,4,6-Tribromophenol | 20.28 | 330 | 895880m | 196.06 | NG/UL | -0.01 |
| Spiked Amount 200.000 | Range 10 - 123 | | Recovery = 98.03% | | | |
| 66) Terphenyl-d14 | 25.64 | 244 | 1987600 | 89.57 | NG/UL | 0.00 |
| Spiked Amount 100.000 | Range 33 - 141 | | Recovery = 89.57% | | | |

| Target Compounds | | | Qvalue |
|---|---|---|---|
| 2) N-Nitrosodimethylamine | 0.00 | 42 | N.D. d |
| 5) Phenol | 0.00 | 94 | N.D. d |
| 6) bis(2-Chloroethyl)ether | 0.00 | 93 | N.D. d |
| 7) 2-Chlorophenol | 0.00 | 128 | N.D. d |
| 8) 1,3-Dichlorobenzene | 0.00 | 146 | N.D. d |
| 9) 1,4-Dichlorobenzene | 0.00 | 146 | N.D. d |
| 10) 1,2-Dichlorobenzene | 0.00 | 146 | N.D. d |
| 11) Benzyl alcohol | 0.00 | 108 | N.D. |
| 12) 2-Methylphenol | 0.00 | 107 | N.D. d |
| 13) 4-Methylphenol | 0.00 | 107 | N.D. d |
| 14) Bis (2-chloroisopropyl) et | 0.00 | 45 | N.D. d |
| 15) N-Nitroso-di-propylamine | 0.00 | 70 | N.D. d |
| 16) Hexachloroethane | 0.00 | 117 | N.D. d |
| 19) Nitrobenzene | 0.00 | 77 | N.D. d |
| 20) Isophorone | 0.00 | 82 | N.D. d |

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\121002\BT80868.D
Acq On : 10 Dec 02 11:42 pm
Sample : HERCULES MW-7
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 12 10:53 19102

Vial: 9
Operator: WTD
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 82701202.R

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 21) 2-Nitrophenol | 0.00 | 139 | | N.D. d | |
| 22) 2,4-Dimethylphenol | 0.00 | 122 | | N.D. d | |
| 23) bis(2-Chloroethoxy)methane | 0.00 | 93 | | N.D. d | |
| 24) Benzoic acid | 0.00 | 122 | | N.D. d | |
| 25) 2,4-Dichlorophenol | 0.00 | 162 | | N.D. | |
| 26) 1,2,4-Trichlorobenzene | 0.00 | 180 | | N.D. | |
| 27) Naphthalene | 0.00 | 128 | | N.D. d | |
| 28) 4-Chloroaniline | 0.00 | 127 | | N.D. d | |
| 29) Hexachlorobutadiene | 0.00 | 225 | | N.D. | |
| 30) 4-Chloro-3-methylphenol | 0.00 | 107 | | N.D. d | |
| 31) 2-Methylnaphthalene | 0.00 | 142 | | N.D. d | |
| 33) Hexachlorocyclopentadiene | 0.00 | 237 | | N.D. | |
| 34) 2,4,6-Trichlorophenol | 0.00 | 196 | | N.D. | |
| 35) 2,4,5-Trichlorophenol | 0.00 | 196 | | N.D. | |
| 36) 2-Chloronaphthalene | 0.00 | 162 | | N.D. d | |
| 38) 2-Nitroaniline | 0.00 | 65 | | N.D. d | |
| 39) 2,4-Dinitrophenol | 0.00 | 184 | | N.D. d | |
| 40) 4-Nitrophenol | 0.00 | 139 | | N.D. d | |
| 41) Dimethylphthalate | 0.00 | 163 | | N.D. d | |
| 42) Acenaphthylene | 0.00 | 152 | | N.D. d | |
| 43) 3-Nitroaniline | 0.00 | 138 | | N.D. d | |
| 44) Acenaphthene | 0.00 | 154 | | N.D. d | |
| 45) Dibenzofuran | 0.00 | 168 | | N.D. d | |
| 46) 2,4-Dinitrotoluene | 0.00 | 165 | | N.D. d | |
| 47) 2,6-Dinitrotoluene | 0.00 | 165 | | N.D. d | |
| 48) Diethylphthalate | 0.00 | 149 | | N.D. d | |
| 49) 4-Chlorophenyl-phenylether | 0.00 | 204 | | N.D. d | |
| 50) Fluorene | 0.00 | 166 | | N.D. d | |
| 51) 4-Nitroaniline | 0.00 | 138 | | N.D. d | |
| 54) 4,6-Dinitro-2-methylphenol | 0.00 | 198 | | N.D. d | |
| 55) N-Nitrosodiphenylamine | 0.00 | 169 | | N.D. d | |
| 56) Diphenylamine | 0.00 | 169 | | N.D. d | |
| 57) 4-Bromophenyl-phenylether | 0.00 | 248 | | N.D. d | |
| 58) Hexachlorobenzene | 0.00 | 284 | | N.D. | |
| 59) Pentachlorophenol | 0.00 | 266 | | N.D. | |
| 60) Phenanthrene | 0.00 | 178 | | N.D. d | |
| 61) Anthracene | 0.00 | 178 | | N.D. d | |

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\121002\BT80868.D
Acq On : 10 Dec 02 11:42 pm
Sample : HERCULES MW-7
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 12 10:53 19102

Vial: 9
Operator: WTD
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 82701202.R

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 62) | Di-n-butylphthalate | 0.00 | 149 | | N.D. | d | |
| 63) | Fluoranthene | 0.00 | 202 | | N.D. | d | |
| 65) | Pyrene | 0.00 | 202 | | N.D. | d | |
| 67) | Butylbenzylphthalate | 0.00 | 149 | | N.D. | d | |
| 68) | 3,3'-Dichlorobenzidine | 0.00 | 252 | | N.D. | | |
| 69) | Benzo(a)anthracene | 0.00 | 228 | | N.D. | d | |
| 70) | Chrysene | 0.00 | 228 | | N.D. | d | |
| 71) | bis(2-Ethylhexyl)phthalate | 0.00 | 149 | | N.D. | d | |
| 72) | Di-n-Octylphthalate | 0.00 | 149 | | N.D. | d | |
| 73) | Indeno(1,2,3-cd)pyrene | 0.00 | 276 | | N.D. | | |
| 75) | Benzo(b)fluoranthene | 0.00 | 252 | | N.D. | | |
| 76) | Benzo(k)fluoranthene | 0.00 | 252 | | N.D. | | |
| 77) | Benzo(a)pyrene | 0.00 | 252 | | N.D. | d | |
| 78) | Dibenz(a,h)anthracene | 0.00 | 278 | | N.D. | | |
| 79) | Benzo(g,h,i)perylene | 0.00 | 276 | | N.D. | | |

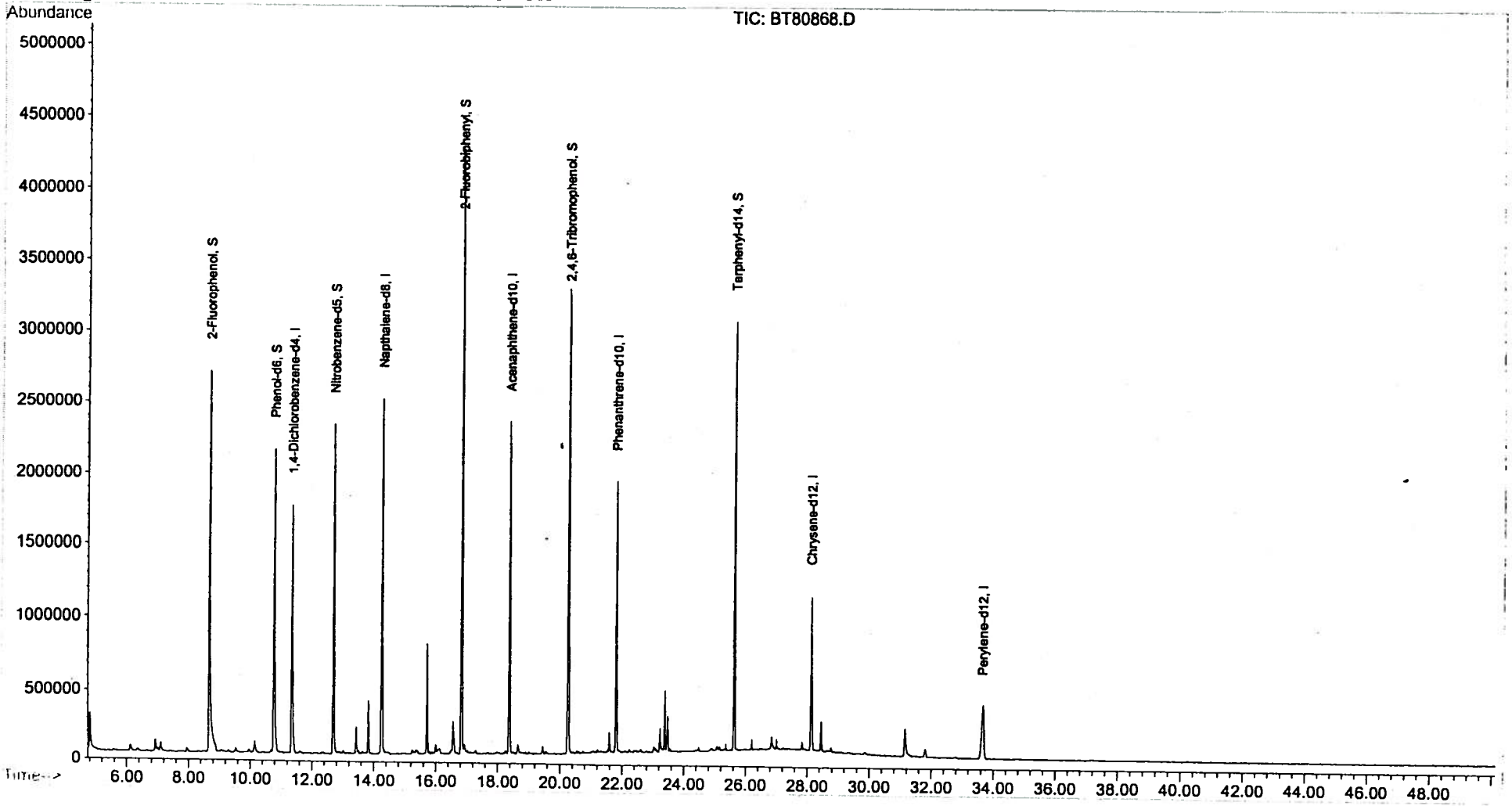
(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\121002\BT80868.D
Acq On : 10 Dec 02 11:42 pm
Sample : HERCULES MW-7
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 12 10:53 19102

Vial: 9
Operator: WTD
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 82701202.RES

Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\121002\BT80870.D
Acq On : 11 Dec 02 12:41 am
Sample : HERCULES MW-9
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 12 10:57 19102

Vial: 10
Operator: WTD
Inst : GC/MS Ins
Multiplr: 1.03

Quant Results File: 82701202.R

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 11.36 | 152 | 723601 | 40.00 | NG/UL | 0.00 |
| 17) Napthalene-d8 | 14.27 | 136 | 2622501 | 40.00 | NG/UL | -0.01 |
| 32) Acenaphthene-d10 | 18.38 | 164 | 1111272 | 40.00 | NG/UL | 0.00 |
| 53) Phenanthrene-d10 | 21.82 | 188 | 1461291 | 40.00 | NG/UL | 0.00 |
| 64) Chrysene-d12 | 28.14 | 240 | 761730 | 40.00 | NG/UL | -0.03 |
| 74) Perylene-d12 | 33.66 | 264 | 390212 | 40.00 | NG/UL | -0.02 |
| **System Monitoring Compounds** | | | | | | |
| 3) 2-Fluorophenol | 8.68 | 112 | 2818691 | 111.30 | NG/UL | 0.00 |
| Spiked Amount 200.000 | Range 21 - 100 | | Recovery = 55.65% | | | |
| 4) Phenol-d6 | 10.77 | 99 | 468294 | 15.39 | NG/UL | -0.03 |
| Spiked Amount 200.000 | Range 10 - 94 | | Recovery = 7.70%# | | | |
| 18) Nitrobenzene-d5 | 12.69 | 82 | 1924164 | 77.64 | NG/UL | -0.03 |
| Spiked Amount 100.000 | Range 35 - 114 | | Recovery = 77.64% | | | |
| 37) 2-Fluorobiphenyl | 16.84 | 172 | 2884595 | 89.35 | NG/UL | -0.02 |
| Spiked Amount 100.000 | Range 43 - 116 | | Recovery = 89.35% | | | |
| 52) 2,4,6-Tribromophenol | 20.28 | 330 | 880093m | 199.28 | NG/UL | 0.00 |
| Spiked Amount 200.000 | Range 10 - 123 | | Recovery = 99.64% | | | |
| 66) Terphenyl-d14 | 25.65 | 244 | 2013284 | 101.83 | NG/UL | 0.00 |
| Spiked Amount 100.000 | Range 33 - 141 | | Recovery = 101.83% | | | |

| Target Compounds | | | Qvalue |
|---|---|---|---|
| 2) N-Nitrosodimethylamine | 0.00 | 42 | N.D. d |
| 5) Phenol | 0.00 | 94 | N.D. d |
| 6) bis(2-Chloroethyl)ether | 0.00 | 93 | N.D. d |
| 7) 2-Chlorophenol | 0.00 | 128 | N.D. d |
| 8) 1,3-Dichlorobenzene | 0.00 | 146 | N.D. d |
| 9) 1,4-Dichlorobenzene | 0.00 | 146 | N.D. d |
| 10) 1,2-Dichlorobenzene | 0.00 | 146 | N.D. d |
| 11) Benzyl alcohol | 0.00 | 108 | N.D. d |
| 12) 2-Methylphenol | 0.00 | 107 | N.D. d |
| 13) 4-Methylphenol | 0.00 | 107 | N.D. d |
| 14) Bis (2-chloroisopropyl) et | 0.00 | 45 | N.D. d |
| 15) N-Nitroso-di-propylamine | 0.00 | 70 | N.D. d |
| 16) Hexachloroethane | 0.00 | 117 | N.D. d |
| 19) Nitrobenzene | 0.00 | 77 | N.D. d |
| 20) Isophorone | 0.00 | 82 | N.D. d |

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\121002\BT80870.D Vial: 10
Acq On : 11 Dec 02 12:41 am Operator: WTD
Sample : HERCULES MW-9 Inst : GC/MS Ins
Misc : Multiplr: 1.03
MS Integration Params: RTEINT.P
Quant Time: Dec 12 10:57 19102 Quant Results File: 82701202.R

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 21) | 2-Nitrophenol | 0.00 | 139 | | N.D. d | |
| 22) | 2,4-Dimethylphenol | 0.00 | 122 | | N.D. d | |
| 23) | bis(2-Chloroethoxy)methane | 0.00 | 93 | | N.D. d | |
| 24) | Benzoic acid | 0.00 | 122 | | N.D. d | |
| 25) | 2,4-Dichlorophenol | 0.00 | 162 | | N.D. d | |
| 26) | 1,2,4-Trichlorobenzene | 0.00 | 180 | | N.D. | |
| 27) | Naphthalene | 14.31 | 128 | 251338 | 4.40 NG/UL | 97 |
| 28) | 4-Chloroaniline | 0.00 | 127 | | N.D. d | |
| 29) | Hexachlorobutadiene | 0.00 | 225 | | N.D. | |
| 30) | 4-Chloro-3-methylphenol | 0.00 | 107 | | N.D. d | |
| 31) | 2-Methylnaphthalene | 0.00 | 142 | | N.D. d | |
| 33) | Hexachlorocyclopentadiene | 0.00 | 237 | | N.D. d | |
| 34) | 2,4,6-Trichlorophenol | 0.00 | 196 | | N.D. d | |
| 35) | 2,4,5-Trichlorophenol | 0.00 | 196 | | N.D. d | |
| 36) | 2-Chloronaphthalene | 0.00 | 162 | | N.D. d | |
| 38) | 2-Nitroaniline | 0.00 | 65 | | N.D. d | |
| 39) | 2,4-Dinitrophenol | 0.00 | 184 | | N.D. d | |
| 40) | 4-Nitrophenol | 0.00 | 139 | | N.D. d | |
| 41) | Dimethylphthalate | 0.00 | 163 | | N.D. d | |
| 42) | Acenaphthylene | 0.00 | 152 | | N.D. d | |
| 43) | 3-Nitroaniline | 0.00 | 138 | | N.D. d | |
| 44) | Acenaphthene | 0.00 | 154 | | N.D. d | |
| 45) | Dibenzofuran | 0.00 | 168 | | N.D. d | |
| 46) | 2,4-Dinitrotoluene | 0.00 | 165 | | N.D. d | |
| 47) | 2,6-Dinitrotoluene | 0.00 | 165 | | N.D. d | |
| 48) | Diethylphthalate | 0.00 | 149 | | N.D. d | |
| 49) | 4-Chlorophenyl-phenylether | 0.00 | 204 | | N.D. d | |
| 50) | Fluorene | 0.00 | 166 | | N.D. d | |
| 51) | 4-Nitroaniline | 0.00 | 138 | | N.D. d | |
| 54) | 4,6-Dinitro-2-methylphenol | 0.00 | 198 | | N.D. d | |
| 55) | N-Nitrosodiphenylamine | 0.00 | 169 | | N.D. d | |
| 56) | Diphenylamine | 0.00 | 169 | | N.D. d | |
| 57) | 4-Bromophenyl-phenylether | 0.00 | 248 | | N.D. d | |
| 58) | Hexachlorobenzene | 0.00 | 284 | | N.D. | |
| 59) | Pentachlorophenol | 0.00 | 266 | | N.D. d | |
| 60) | Phenanthrene | 0.00 | 178 | | N.D. d | |
| 61) | Anthracene | 0.00 | 178 | | N.D. d | |

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\121002\BT80870.D
Acq On : 11 Dec 02 12:41 am
Sample : HERCULES MW-9
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 12 10:57 19102

Vial: 10
Operator: WTD
Inst : GC/MS Ins
Multiplr: 1.03

Quant Results File: 82701202.R

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 62) Di-n-butylphthalate | 0.00 | 149 | | N.D. d | |
| 63) Fluoranthene | 0.00 | 202 | | N.D. d | |
| 65) Pyrene | 0.00 | 202 | | N.D. d | |
| 67) Butylbenzylphthalate | 0.00 | 149 | | N.D. d | |
| 68) 3,3'-Dichlorobenzidine | 0.00 | 252 | | N.D. d | |
| 69) Benzo(a)anthracene | 0.00 | 228 | | N.D. d | |
| 70) Chrysene | 0.00 | 228 | | N.D. d | |
| 71) bis(2-Ethylhexyl)phthalate | 0.00 | 149 | | N.D. d | |
| 72) Di-n-Octylphthalate | 0.00 | 149 | | N.D. d | |
| 73) Indeno(1,2,3-cd)pyrene | 0.00 | 276 | | N.D. | |
| 75) Benzo(b)fluoranthene | 0.00 | 252 | | N.D. d | |
| 76) Benzo(k)fluoranthene | 0.00 | 252 | | N.D. d | |
| 77) Benzo(a)pyrene | 0.00 | 252 | | N.D. d | |
| 78) Dibenz(a,h)anthracene | 0.00 | 278 | | N.D. | |
| 79) Benzo(g,h,i)perylene | 0.00 | 276 | | N.D. | |

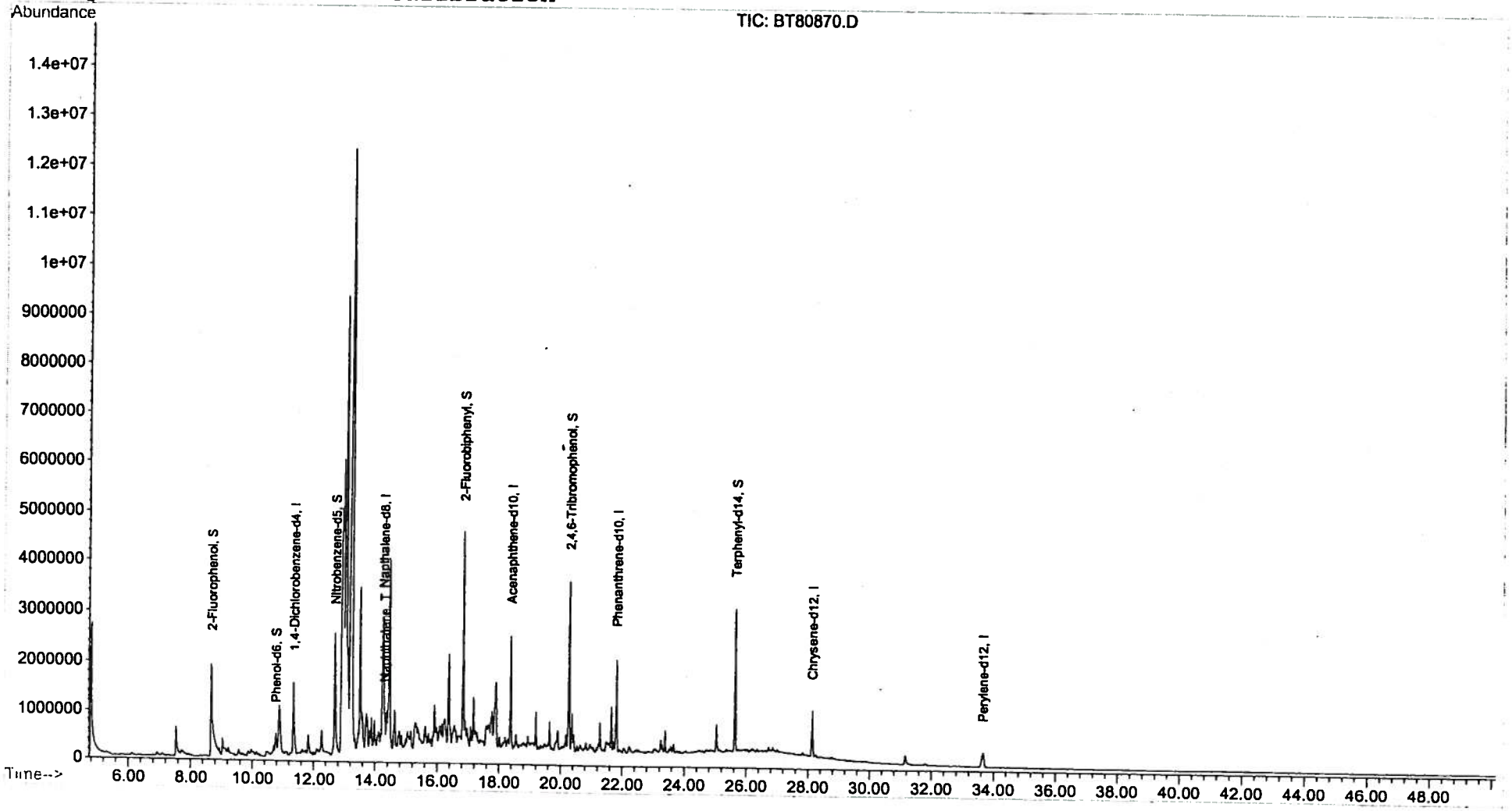
(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\121002\BT80870.D
Acq On : 11 Dec 02 12:41 am
Sample : HERCULES MW-9
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 12 10:57 19102

Vial: 10
Operator: WTD
Inst : GC/MS Ins
Multiplr: 1.03

Quant Results File: 82701202.RES

Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\121002\BT80874.D Vial: 11
Acq On : 11 Dec 02 1:55 am Operator: WTD
Sample : HERCULES MW-8 Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 11:01 19102 Quant Results File: 82701202.RI

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 11.36 | 152 | 635670 | 40.00 | NG/UL | 0.00 |
| 17) Napthalene-d8 | 14.28 | 136 | 2226415 | 40.00 | NG/UL | 0.00 |
| 32) Acenaphthene-d10 | 18.40 | 164 | 1068186 | 40.00 | NG/UL | 0.01 |
| 53) Phenanthrene-d10 | 21.82 | 188 | 1469081 | 40.00 | NG/UL | 0.00 |
| 64) Chrysene-d12 | 28.14 | 240 | 897328 | 40.00 | NG/UL | -0.03 |
| 74) Perylene-d12 | 33.67 | 264 | 509370 | 40.00 | NG/UL | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 3) 2-Fluorophenol | 8.69 | 112 | 2186118 | 98.26 | NG/UL | 0.02 |
| Spiked Amount 200.000 | Range 21 - 100 | | Recovery = 49.13% | | | |
| 4) Phenol-d6 | 10.80 | 99 | 1034429 | 38.71 | NG/UL | 0.00 |
| Spiked Amount 200.000 | Range 10 - 94 | | Recovery = 19.36% | | | |
| 18) Nitrobenzene-d5 | 12.70 | 82 | 1998429 | 94.98 | NG/UL | -0.03 |
| Spiked Amount 100.000 | Range 35 - 114 | | Recovery = 94.98% | | | |
| 37) 2-Fluorobiphenyl | 16.91 | 172 | 2548724 | 82.13 | NG/UL | 0.05 |
| Spiked Amount 100.000 | Range 43 - 116 | | Recovery = 82.13% | | | |
| 52) 2,4,6-Tribromophenol | 20.30 | 330 | 833426m | 196.33 | NG/UL | 0.00 |
| Spiked Amount 200.000 | Range 10 - 123 | | Recovery = 98.17% | | | |
| 66) Terphenyl-d14 | 25.64 | 244 | 2080477 | 89.33 | NG/UL | 0.00 |
| Spiked Amount 100.000 | Range 33 - 141 | | Recovery = 89.33% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) N-Nitrosodimethylamine | 0.00 | 42 | | N.D. | d | |
| 5) Phenol | 0.00 | 94 | | N.D. | d | |
| 6) bis(2-Chloroethyl)ether | 0.00 | 93 | | N.D. | d | |
| 7) 2-Chlorophenol | 0.00 | 128 | | N.D. | d | |
| 8) 1,3-Dichlorobenzene | 0.00 | 146 | | N.D. | d | |
| 9) 1,4-Dichlorobenzene | 0.00 | 146 | | N.D. | d | |
| 10) 1,2-Dichlorobenzene | 11.81 | 146 | 32321 | 1.54 | NG/UL | 97 |
| 11) Benzyl alcohol | 0.00 | 108 | | N.D. | d | |
| 12) 2-Methylphenol | 0.00 | 107 | | N.D. | d | |
| 13) 4-Methylphenol | 12.55 | 107 | 310660 | 13.16 | NG/UL | 95 |
| 14) Bis (2-chloroisopropyl) et | 0.00 | 45 | | N.D. | d | |
| 15) N-Nitroso-di-propylamine | 0.00 | 70 | | N.D. | d | |
| 16) Hexachloroethane | 12.48 | 117 | 8794 | 1.04 | NG/UL# | 90 |
| 19) Nitrobenzene | 0.00 | 77 | | N.D. | d | |
| 20) Isophorone | 0.00 | 82 | | N.D. | d | |

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\121002\BT80874.D Vial: 11
Acq On : 11 Dec 02 1:55 am Operator: WTD
Sample : HERCULES MW-8 Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 11:01 19102 Quant Results File: 82701202.R

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 21) 2-Nitrophenol | 0.00 | 139 | | N.D. d | |
| 22) 2,4-Dimethylphenol | 0.00 | 122 | | N.D. d | |
| 23) bis(2-Chloroethoxy)methane | 0.00 | 93 | | N.D. d | |
| 24) Benzoic acid | 0.00 | 122 | | N.D. d | |
| 25) 2,4-Dichlorophenol | 0.00 | 162 | | N.D. d | |
| 26) 1,2,4-Trichlorobenzene | 0.00 | 180 | | N.D. d | |
| 27) Naphthalene | 0.00 | 128 | | N.D. d | |
| 28) 4-Chloroaniline | 0.00 | 127 | | N.D. d | |
| 29) Hexachlorobutadiene | 0.00 | 225 | | N.D. | |
| 30) 4-Chloro-3-methylphenol | 0.00 | 107 | | N.D. d | |
| 31) 2-Methylnaphthalene | 0.00 | 142 | | N.D. d | |
| 33) Hexachlorocyclopentadiene | 0.00 | 237 | | N.D. d | |
| 34) 2,4,6-Trichlorophenol | 0.00 | 196 | | N.D. d | |
| 35) 2,4,5-Trichlorophenol | 0.00 | 196 | | N.D. d | |
| 36) 2-Chloronaphthalene | 0.00 | 162 | | N.D. d | |
| 38) 2-Nitroaniline | 0.00 | 65 | | N.D. d | |
| 39) 2,4-Dinitrophenol | 0.00 | 184 | | N.D. d | |
| 40) 4-Nitrophenol | 0.00 | 139 | | N.D. d | |
| 41) Dimethylphthalate | 0.00 | 163 | | N.D. d | |
| 42) Acenaphthylene | 0.00 | 152 | | N.D. d | |
| 43) 3-Nitroaniline | 0.00 | 138 | | N.D. d | |
| 44) Acenaphthene | 0.00 | 154 | | N.D. d | |
| 45) Dibenzofuran | 0.00 | 168 | | N.D. d | |
| 46) 2,4-Dinitrotoluene | 0.00 | 165 | | N.D. d | |
| 47) 2,6-Dinitrotoluene | 0.00 | 165 | | N.D. d | |
| 48) Diethylphthalate | 0.00 | 149 | | N.D. d | |
| 49) 4-Chlorophenyl-phenylether | 0.00 | 204 | | N.D. d | |
| 50) Fluorene | 0.00 | 166 | | N.D. d | |
| 51) 4-Nitroaniline | 0.00 | 138 | | N.D. d | |
| 54) 4,6-Dinitro-2-methylphenol | 0.00 | 198 | | N.D. d | |
| 55) N-Nitrosodiphenylamine | 0.00 | 169 | | N.D. d | |
| 56) Diphenylamine | 0.00 | 169 | | N.D. d | |
| 57) 4-Bromophenyl-phenylether | 0.00 | 248 | | N.D. d | |
| 58) Hexachlorobenzene | 0.00 | 284 | | N.D. | |
| 59) Pentachlorophenol | 0.00 | 266 | | N.D. d | |
| 60) Phenanthrene | 0.00 | 178 | | N.D. d | |
| 61) Anthracene | 0.00 | 178 | | N.D. d | |

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\121002\BT80874.D Vial: 11
Acq On : 11 Dec 02 1:55 am Operator: WTD
Sample : HERCULES MW-8 Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 11:01 19102 Quant Results File: 82701202.RI

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 62) | Di-n-butylphthalate | 0.00 | 149 | | N.D. d | |
| 63) | Fluoranthene | 0.00 | 202 | | N.D. d | |
| 65) | Pyrene | 0.00 | 202 | | N.D. d | |
| 67) | Butylbenzylphthalate | 0.00 | 149 | | N.D. d | |
| 68) | 3,3'-Dichlorobenzidine | 0.00 | 252 | | N.D. d | |
| 69) | Benzo(a)anthracene | 0.00 | 228 | | N.D. d | |
| 70) | Chrysene | 0.00 | 228 | | N.D. d | |
| 71) | bis(2-Ethylhexyl)phthalate | 0.00 | 149 | | N.D. d | |
| 72) | Di-n-Octylphthalate | 0.00 | 149 | | N.D. d | |
| 73) | Indeno(1,2,3-cd)pyrene | 0.00 | 276 | | N.D. | |
| 75) | Benzo(b)fluoranthene | 0.00 | 252 | | N.D. d | |
| 76) | Benzo(k)fluoranthene | 0.00 | 252 | | N.D. d | |
| 77) | Benzo(a)pyrene | 0.00 | 252 | | N.D. d | |
| 78) | Dibenz(a,h)anthracene | 0.00 | 278 | | N.D. | |
| 79) | Benzo(g,h,i)perylene | 0.00 | 276 | | N.D. | |

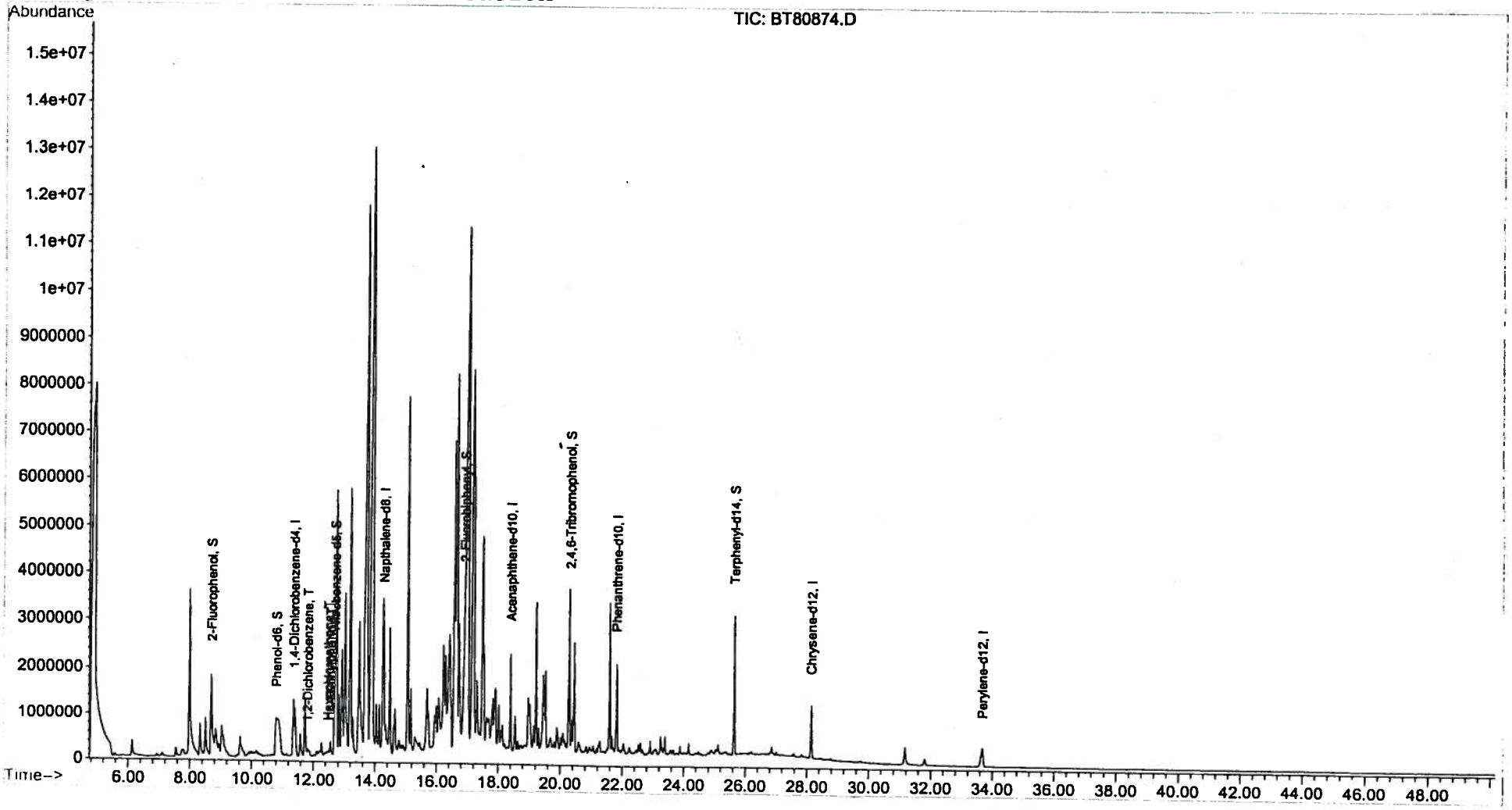
(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\121002\BT80874.D
Acq On : 11 Dec 02 1:55 am
Sample : HERCULES MW-8
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 12 11:01 19102

Vial: 11
Operator: WTD
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 82701202.RES

Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\121002\MS80875.D
Acq On : 11 Dec 02 2:54 am
Sample : HERCULES MW-8
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 12 11:07 19102

Vial: 12
Operator: WTD
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 82701202.R

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 11.35 | 152 | 713715 | 40.00 | NG/UL | -0.01 |
| 17) Napthalene-d8 | 14.30 | 136 | 2386375 | 40.00 | NG/UL | 0.01 |
| 32) Acenaphthene-d10 | 18.39 | 164 | 1098347 | 40.00 | NG/UL | 0.00 |
| 53) Phenanthrene-d10 | 21.83 | 188 | 1457760 | 40.00 | NG/UL | 0.00 |
| 64) Chrysene-d12 | 28.14 | 240 | 911969 | 40.00 | NG/UL | -0.03 |
| 74) Perylene-d12 | 33.67 | 264 | 532357 | 40.00 | NG/UL | -0.01 |
| **System Monitoring Compounds** | | | | | | |
| 3) 2-Fluorophenol | 8.70 | 112 | 2869920 | 114.89 | NG/UL | 0.03 |
| Spiked Amount 200.000 | Range 21 - 100 | | Recovery = 57.45% | | | |
| 4) Phenol-d6 | 10.79 | 99 | 908354 | 30.27 | NG/UL | 0.00 |
| Spiked Amount 200.000 | Range 10 - 94 | | Recovery = 15.14% | | | |
| 18) Nitrobenzene-d5 | 12.70 | 82 | 2562710 | 113.63 | NG/UL | -0.02 |
| Spiked Amount 100.000 | Range 35 - 114 | | Recovery = 113.63% | | | |
| 37) 2-Fluorobiphenyl | 16.90 | 172 | 2996114 | 93.90 | NG/UL | 0.04 |
| Spiked Amount 100.000 | Range 43 - 116 | | Recovery = 93.90% | | | |
| 52) 2,4,6-Tribromophenol | 20.29 | 330 | 792257m | 181.50 | NG/UL | 0.00 |
| Spiked Amount 200.000 | Range 10 - 123 | | Recovery = 90.75% | | | |
| 66) Terphenyl-d14 | 25.65 | 244 | 2372022 | 100.21 | NG/UL | 0.00 |
| Spiked Amount 100.000 | Range 33 - 141 | | Recovery = 100.21% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) N-Nitrosodimethylamine | 0.00 | 42 | | N.D. | d | |
| 5) Phenol | 10.90 | 94 | 1283072m | 42.25 | NG/UL | 97 |
| 6) bis(2-Chloroethyl)ether | 0.00 | 93 | | N.D. | d | |
| 7) 2-Chlorophenol | 11.00 | 128 | 3669420 | 155.86 | NG/UL | 95 |
| 8) 1,3-Dichlorobenzene | 11.40 | 146 | 1780101 | 68.90 | NG/UL | 98 |
| 9) 1,4-Dichlorobenzene | 11.40 | 146 | 1780101 | 69.80 | NG/UL | 96 |
| 10) 1,2-Dichlorobenzene | 0.00 | 146 | | N.D. | | |
| 11) Benzyl alcohol | 0.00 | 108 | | N.D. | d | |
| 12) 2-Methylphenol | 0.00 | 107 | | N.D. | d | |
| 13) 4-Methylphenol | 12.58 | 107 | 328471 | 12.39 | NG/UL | 97 |
| 14) Bis (2-chloroisopropyl) et | 0.00 | 45 | | N.D. | d | |
| 15) N-Nitroso-di-propylamine | 12.46 | 70 | 1542240 | 88.35 | NG/UL | 99 |
| 16) Hexachloroethane | 0.00 | 117 | | N.D. | d | |
| 19) Nitrobenzene | 0.00 | 77 | | N.D. | d | |
| 20) Isophorone | 0.00 | 82 | | N.D. | d | |

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\121002\MS80875.D
Acq On : 11 Dec 02 2:54 am
Sample : HERCULES MW-8
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 12 11:07 19102

Vial: 12
Operator: WTD
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 82701202.R

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 21) 2-Nitrophenol | 0.00 | 139 | | N.D. d | |
| 22) 2,4-Dimethylphenol | 0.00 | 122 | | N.D. d | |
| 23) bis(2-Chloroethoxy)methane | 0.00 | 93 | | N.D. d | |
| 24) Benzoic acid | 0.00 | 122 | | N.D. d | |
| 25) 2,4-Dichlorophenol | 0.00 | 162 | | N.D. d | |
| 26) 1,2,4-Trichlorobenzene | 14.20 | 180 | 1116690 | 75.01 NG/UL | 97 |
| 27) Naphthalene | 0.00 | 128 | | N.D. d | |
| 28) 4-Chloroaniline | 0.00 | 127 | | N.D. d | |
| 29) Hexachlorobutadiene | 0.00 | 225 | | N.D. | |
| 30) 4-Chloro-3-methylphenol | 15.82 | 107 | 2236240 | 134.86 NG/UL | 97 |
| 31) 2-Methylnaphthalene | 0.00 | 142 | | N.D. d | |
| 33) Hexachlorocyclopentadiene | 0.00 | 237 | | N.D. d | |
| 34) 2,4,6-Trichlorophenol | 0.00 | 196 | | N.D. d | |
| 35) 2,4,5-Trichlorophenol | 0.00 | 196 | | N.D. d | |
| 36) 2-Chloronaphthalene | 0.00 | 162 | | N.D. d | |
| 38) 2-Nitroaniline | 0.00 | 65 | | N.D. d | |
| 39) 2,4-Dinitrophenol | 0.00 | 184 | | N.D. d | |
| 40) 4-Nitrophenol | 18.95 | 139 | 432905 | 20.32 NG/UL# | 10 |
| 41) Dimethylphthalate | 0.00 | 163 | | N.D. d | |
| 42) Acenaphthylene | 0.00 | 152 | | N.D. d | |
| 43) 3-Nitroaniline | 0.00 | 138 | | N.D. d | |
| 44) Acenaphthene | 18.48 | 154 | 2631495 | 92.86 NG/UL | 100 |
| 45) Dibenzofuran | 0.00 | 168 | | N.D. d | |
| 46) 2,4-Dinitrotoluene | 19.02 | 165 | 1048773 | 97.42 NG/UL | 98 |
| 47) 2,6-Dinitrotoluene | 0.00 | 165 | | N.D. d | |
| 48) Diethylphthalate | 0.00 | 149 | | N.D. d | |
| 49) 4-Chlorophenyl-phenylether | 0.00 | 204 | | N.D. d | |
| 50) Fluorene | 0.00 | 166 | | N.D. d | |
| 51) 4-Nitroaniline | 0.00 | 138 | | N.D. d | |
| 54) 4,6-Dinitro-2-methylphenol | 0.00 | 198 | | N.D. d | |
| 55) N-Nitrosodiphenylamine | 0.00 | 169 | | N.D. d | |
| 56) Diphenylamine | 0.00 | 169 | | N.D. d | |
| 57) 4-Bromophenyl-phenylether | 0.00 | 248 | | N.D. d | |
| 58) Hexachlorobenzene | 0.00 | 284 | | N.D. | |
| 59) Pentachlorophenol | 21.59 | 266 | 930589 | 183.22 NG/UL | 95 |
| 60) Phenanthrene | 0.00 | 178 | | N.D. d | |
| 61) Anthracene | 0.00 | 178 | | N.D. d | |

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\121002\MS80875.D Vial: 12
Acq On : 11 Dec 02 2:54 am Operator: WTD
Sample : HERCULES MW-8 Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 11:07 19102 Quant Results File: 82701202.R

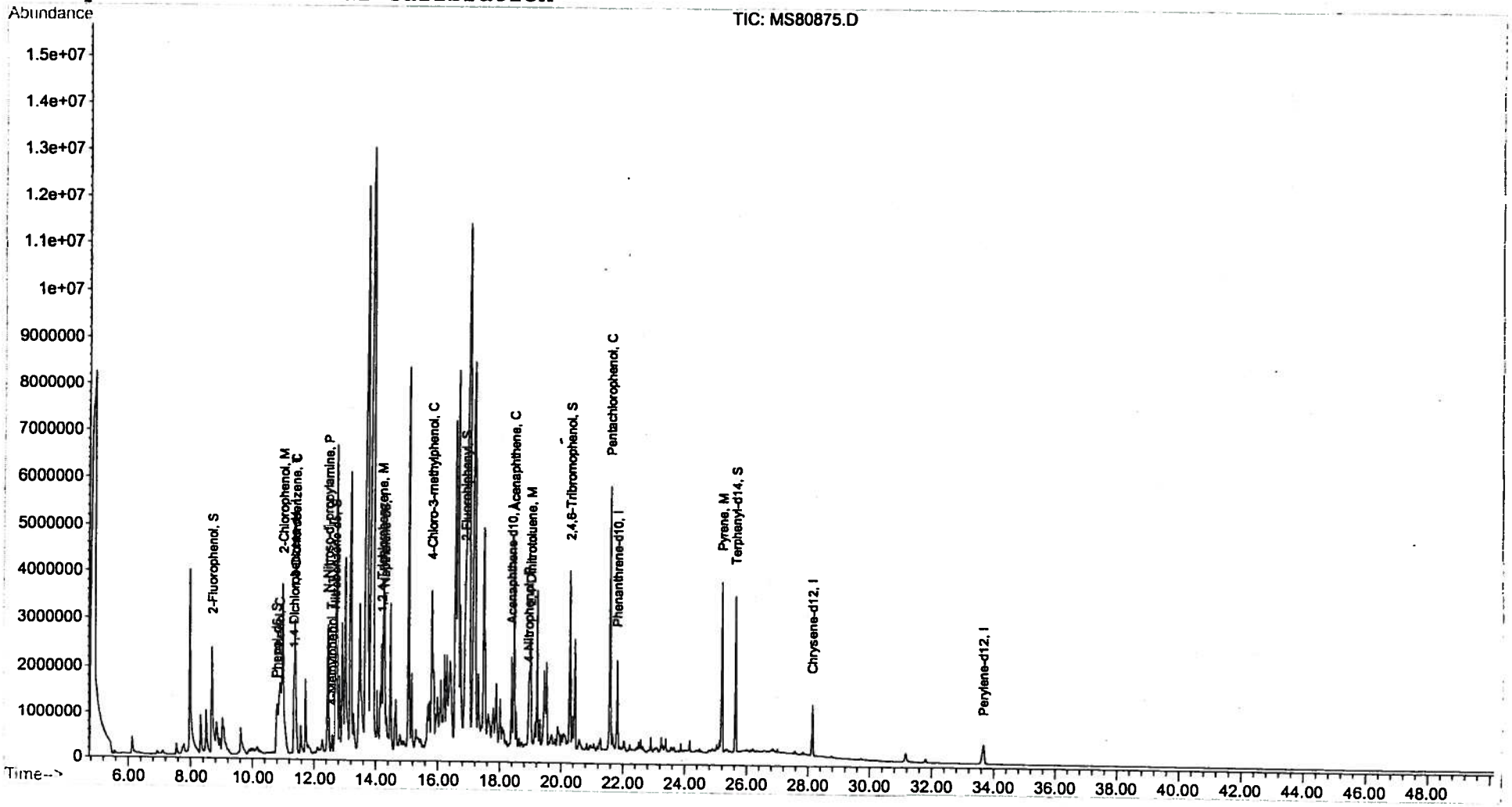
Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 62) Di-n-butylphthalate | 0.00 | 149 | | N.D. d | |
| 63) Fluoranthene | 0.00 | 202 | | N.D. | |
| 65) Pyrene | 25.21 | 202 | 3634821 | 90.39 NG/UL | 97 |
| 67) Butylbenzylphthalate | 0.00 | 149 | | N.D. d | |
| 68) 3,3'-Dichlorobenzidine | 0.00 | 252 | | N.D. d | |
| 69) Benzo(a)anthracene | 0.00 | 228 | | N.D. d | |
| 70) Chrysene | 0.00 | 228 | | N.D. d | |
| 71) bis(2-Ethylhexyl)phthalate | 0.00 | 149 | | N.D. d | |
| 72) Di-n-Octylphthalate | 0.00 | 149 | | N.D. d | |
| 73) Indeno(1,2,3-cd)pyrene | 0.00 | 276 | | N.D. | |
| 75) Benzo(b)fluoranthene | 0.00 | 252 | | N.D. d | |
| 76) Benzo(k)fluoranthene | 0.00 | 252 | | N.D. d | |
| 77) Benzo(a)pyrene | 0.00 | 252 | | N.D. d | |
| 78) Dibenz(a,h)anthracene | 0.00 | 278 | | N.D. | |
| 79) Benzo(g,h,i)perylene | 0.00 | 276 | | N.D. | |

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\121002\MS80875.D  Vial: 12
Acq On : 11 Dec 02 2:54 am  Operator: WTD
Sample : HERCULES MW-8  Inst : GC/MS Ins
Misc :  Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 11:07 19102  Quant Results File: 82701202.RES

Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\121002\MSD80875.D  Vial: 13
Acq On : 11 Dec 02 3:53 am  Operator: WTD
Sample : HERCULES MW-8  Inst : GC/MS Ins
Misc :  Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 11:12 19102  Quant Results File: 82701202.R

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 11.35 | 152 | 657489 | 40.00 | NG/UL | -0.01 |
| 17) Napthalene-d8 | 14.29 | 136 | 2225474 | 40.00 | NG/UL | 0.00 |
| 32) Acenaphthene-d10 | 18.39 | 164 | 1057247 | 40.00 | NG/UL | 0.00 |
| 53) Phenanthrene-d10 | 21.83 | 188 | 1430828 | 40.00 | NG/UL | 0.00 |
| 64) Chrysene-d12 | 28.14 | 240 | 887638 | 40.00 | NG/UL | -0.03 |
| 74) Perylene-d12 | 33.67 | 264 | 501478 | 40.00 | NG/UL | -0.01 |
| **System Monitoring Compounds** | | | | | | |
| 3) 2-Fluorophenol | 8.69 | 112 | 2487959 | 108.12 | NG/UL | 0.02 |
| Spiked Amount 200.000 | Range 21 - 100 | | Recovery = 54.06% | | | |
| 4) Phenol-d6 | 10.79 | 99 | 886664 | 32.08 | NG/UL | 0.00 |
| Spiked Amount 200.000 | Range 10 - 94 | | Recovery = 16.04% | | | |
| 18) Nitrobenzene-d5 | 12.70 | 82 | 2332710 | 110.91 | NG/UL | -0.02 |
| Spiked Amount 100.000 | Range 35 - 114 | | Recovery = 110.91% | | | |
| 37) 2-Fluorobiphenyl | 16.90 | 172 | 2795031 | 91.00 | NG/UL | 0.04 |
| Spiked Amount 100.000 | Range 43 - 116 | | Recovery = 91.00% | | | |
| 52) 2,4,6-Tribromophenol | 20.29 | 330 | 722948m | 172.06 | NG/UL | 0.00 |
| Spiked Amount 200.000 | Range 10 - 123 | | Recovery = 86.03% | | | |
| 66) Terphenyl-d14 | 25.65 | 244 | 2322626 | 100.81 | NG/UL | 0.00 |
| Spiked Amount 100.000 | Range 33 - 141 | | Recovery = 100.81% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) N-Nitrosodimethylamine | 5.81 | 42 | 777 | 0.06 | UG/L | # 1 |
| 5) Phenol | 10.81 | 94 | 889191m | 31.78 | NG/UL | 97 |
| 6) bis(2-Chloroethyl)ether | 0.00 | 93 | | N.D. | d | |
| 7) 2-Chlorophenol | 10.99 | 128 | 3265464 | 150.56 | NG/UL | 96 |
| 8) 1,3-Dichlorobenzene | 11.39 | 146 | 1597290 | 67.11 | NG/UL | 99 |
| 9) 1,4-Dichlorobenzene | 11.39 | 146 | 1597290 | 67.99 | NG/UL | 96 |
| 10) 1,2-Dichlorobenzene | 0.00 | 146 | | N.D. | d | |
| 11) Benzyl alcohol | 0.00 | 108 | | N.D. | d | |
| 12) 2-Methylphenol | 12.24 | 107 | 23381 | 1.38 | NG/UL | 88 |
| 13) 4-Methylphenol | 12.57 | 107 | 306539 | 12.55 | NG/UL | 95 |
| 14) Bis (2-chloroisopropyl) et | 0.00 | 45 | | N.D. | d | |
| 15) N-Nitroso-di-propylamine | 12.45 | 70 | 1349808 | 83.94 | NG/UL | 98 |
| 16) Hexachloroethane | 0.00 | 117 | | N.D. | d | |
| 19) Nitrobenzene | 0.00 | 77 | | N.D. | d | |
| 20) Isophorone | 0.00 | 82 | | N.D. | d | |

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\121002\MSD80875.D Vial: 13
Acq On : 11 Dec 02 3:53 am Operator: WTD
Sample : HERCULES MW-8 Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 11:12 19102 Quant Results File: 82701202.R

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 21) 2-Nitrophenol | 0.00 | 139 | | N.D. d | |
| 22) 2,4-Dimethylphenol | 0.00 | 122 | | N.D. d | |
| 23) bis(2-Chloroethoxy)methane | 0.00 | 93 | | N.D. d | |
| 24) Benzoic acid | 0.00 | 122 | | N.D. d | |
| 25) 2,4-Dichlorophenol | 0.00 | 162 | | N.D. d | |
| 26) 1,2,4-Trichlorobenzene | 14.19 | 180 | 993133 | 71.53 NG/UL | 98 |
| 27) Naphthalene | 0.00 | 128 | | N.D. d | |
| 28) 4-Chloroaniline | 0.00 | 127 | | N.D. d | |
| 29) Hexachlorobutadiene | 0.00 | 225 | | N.D. | |
| 30) 4-Chloro-3-methylphenol | 15.81 | 107 | 2315927 | 149.77 NG/UL | 96 |
| 31) 2-Methylnaphthalene | 0.00 | 142 | | N.D. d | |
| 33) Hexachlorocyclopentadiene | 0.00 | 237 | | N.D. d | |
| 34) 2,4,6-Trichlorophenol | 0.00 | 196 | | N.D. d | |
| 35) 2,4,5-Trichlorophenol | 0.00 | 196 | | N.D. d | |
| 36) 2-Chloronaphthalene | 0.00 | 162 | | N.D. d | |
| 38) 2-Nitroaniline | 0.00 | 65 | | N.D. d | |
| 39) 2,4-Dinitrophenol | 0.00 | 184 | | N.D. d | |
| 40) 4-Nitrophenol | 18.97 | 139 | 710716 | 34.66 NG/UL# | 12 |
| 41) Dimethylphthalate | 0.00 | 163 | | N.D. d | |
| 42) Acenaphthylene | 0.00 | 152 | | N.D. d | |
| 43) 3-Nitroaniline | 0.00 | 138 | | N.D. d | |
| 44) Acenaphthene | 18.48 | 154 | 2505574 | 91.86 NG/UL | 99 |
| 45) Dibenzofuran | 0.00 | 168 | | N.D. d | |
| 46) 2,4-Dinitrotoluene | 19.02 | 165 | 1031692 | 99.56 NG/UL | 97 |
| 47) 2,6-Dinitrotoluene | 0.00 | 165 | | N.D. d | |
| 48) Diethylphthalate | 0.00 | 149 | | N.D. d | |
| 49) 4-Chlorophenyl-phenylether | 0.00 | 204 | | N.D. d | |
| 50) Fluorene | 0.00 | 166 | | N.D. d | |
| 51) 4-Nitroaniline | 0.00 | 138 | | N.D. d | |
| 54) 4,6-Dinitro-2-methylphenol | 0.00 | 198 | | N.D. d | |
| 55) N-Nitrosodiphenylamine | 0.00 | 169 | | N.D. d | |
| 56) Diphenylamine | 0.00 | 169 | | N.D. d | |
| 57) 4-Bromophenyl-phenylether | 0.00 | 248 | | N.D. d | |
| 58) Hexachlorobenzene | 0.00 | 284 | | N.D. | |
| 59) Pentachlorophenol | 21.59 | 266 | 973213 | 195.22 NG/UL | 99 |
| 60) Phenanthrene | 0.00 | 178 | | N.D. d | |
| 61) Anthracene | 0.00 | 178 | | N.D. d | |

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\121002\MSD80875.D Vial: 13
Acq On : 11 Dec 02 3:53 am Operator: WTD
Sample : HERCULES MW-8 Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 11:12 19102 Quant Results File: 82701202.R

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 62) | Di-n-butylphthalate | 0.00 | 149 | | N.D. d | |
| 63) | Fluoranthene | 0.00 | 202 | | N.D. | |
| 65) | Pyrene | 25.21 | 202 | 3583380 | 91.55 NG/UL | 98 |
| 67) | Butylbenzylphthalate | 0.00 | 149 | | N.D. d | |
| 68) | 3,3'-Dichlorobenzidine | 0.00 | 252 | | N.D. d | |
| 69) | Benzo(a)anthracene | 0.00 | 228 | | N.D. d | |
| 70) | Chrysene | 0.00 | 228 | | N.D. d | |
| 71) | bis(2-Ethylhexyl)phthalate | 0.00 | 149 | | N.D. d | |
| 72) | Di-n-Octylphthalate | 0.00 | 149 | | N.D. d | |
| 73) | Indeno(1,2,3-cd)pyrene | 0.00 | 276 | | N.D. | |
| 75) | Benzo(b)fluoranthene | 0.00 | 252 | | N.D. d | |
| 76) | Benzo(k)fluoranthene | 0.00 | 252 | | N.D. | |
| 77) | Benzo(a)pyrene | 0.00 | 252 | | N.D. d | |
| 78) | Dibenz(a,h)anthracene | 0.00 | 278 | | N.D. | |
| 79) | Benzo(g,h,i)perylene | 43.05 | 276 | 96 | 0.01 NG/UL# | 41 |

(#) = qualifier out of range (m) = manual integration

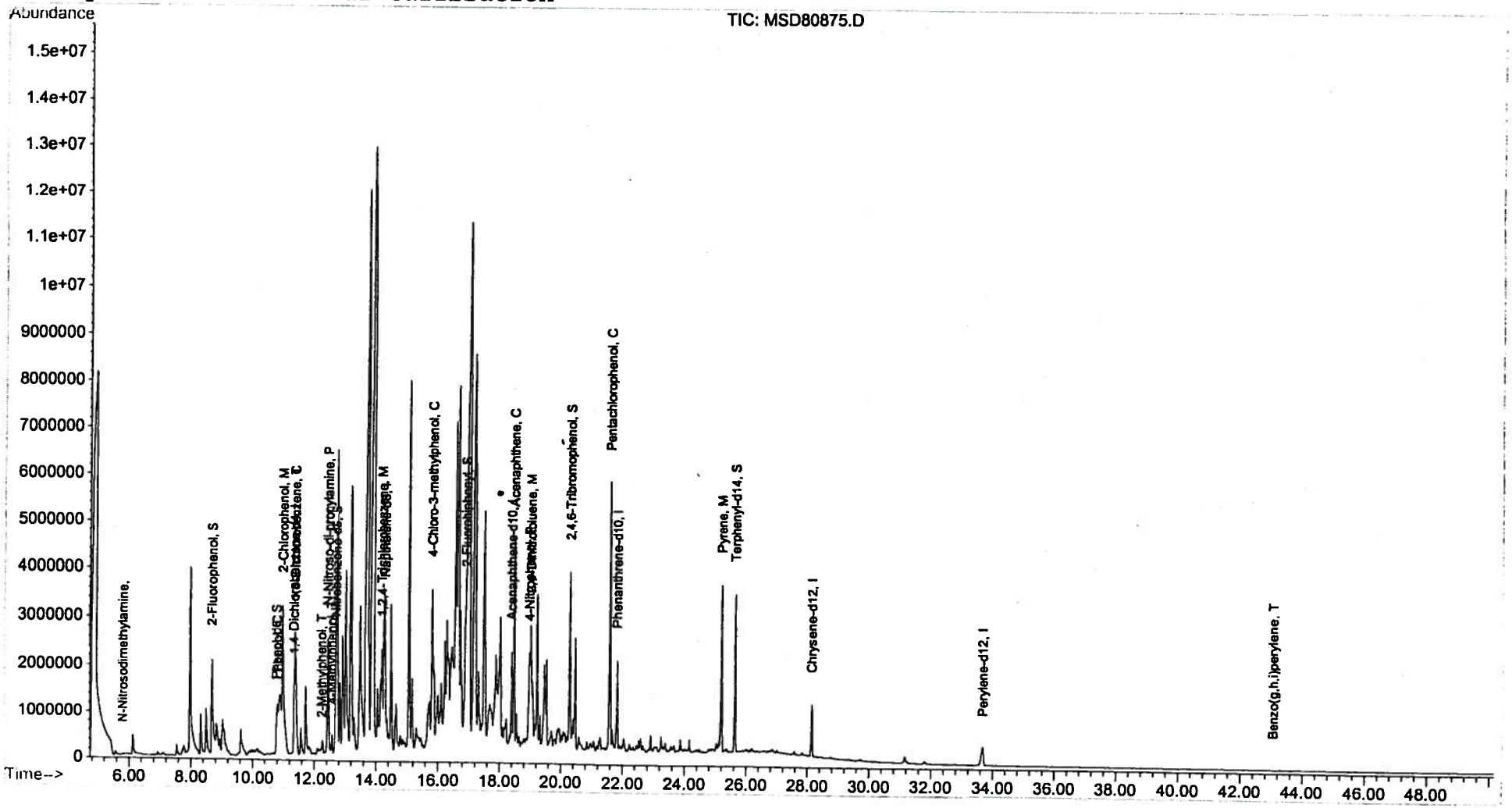
Quantit ion Report

Data File : C:\HPCHEM\1\DATA\121002\MSD80875.D
Acq On : 11 Dec 02 3:53 am
Sample : HERCULES MW-8
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 12 11:12 19102

Vial: 13
Operator: WTD
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 82701202.RES

Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\121002\BT80877.D Vial: 14
Acq On : 11 Dec 02 4:52 am Operator: WTD
Sample : HERCULES RINSATE BLANK Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 11:17 19102 Quant Results File: 82701202.R

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 11.34 | 152 | 834323 | 40.00 | NG/UL | -0.02 |
| 17) Napthalene-d8 | 14.25 | 136 | 3245014 | 40.00 | NG/UL | -0.03 |
| 32) Acenaphthene-d10 | 18.37 | 164 | 1294457 | 40.00 | NG/UL | -0.02 |
| 53) Phenanthrene-d10 | 21.80 | 188 | 1544927 | 40.00 | NG/UL | -0.02 |
| 64) Chrysene-d12 | 28.14 | 240 | 980666 | 40.00 | NG/UL | -0.03 |
| 74) Perylene-d12 | 33.65 | 264 | 572006 | 40.00 | NG/UL | -0.02 |
| **System Monitoring Compounds** | | | | | | |
| 3) 2-Fluorophenol | 8.68 | 112 | 3241839m | 111.02 | NG/UL | 0.00 |
| Spiked Amount 200.000 | Range 21 - 100 | | Recovery = 55.51% | | | |
| 4) Phenol-d6 | 0.00 | 99 | 0d | 0.00 | NG/UL | |
| Spiked Amount 200.000 | Range 10 - 94 | | Recovery = 0.00%# | | | |
| 18) Nitrobenzene-d5 | 12.69 | 82 | 2311992 | 75.39 | NG/UL | -0.04 |
| Spiked Amount 100.000 | Range 35 - 114 | | Recovery = 75.39% | | | |
| 37) 2-Fluorobiphenyl | 16.83 | 172 | 3391690 | 90.19 | NG/UL | -0.03 |
| Spiked Amount 100.000 | Range 43 - 116 | | Recovery = 90.19% | | | |
| 52) 2,4,6-Tribromophenol | 20.27 | 330 | 996046 | 193.62 | NG/UL | -0.02 |
| Spiked Amount 200.000 | Range 10 - 123 | | Recovery = 96.81% | | | |
| 66) Terphenyl-d14 | 25.63 | 244 | 2189792 | 86.03 | NG/UL | 0.00 |
| Spiked Amount 100.000 | Range 33 - 141 | | Recovery = 86.03% | | | |

| Target Compounds | | | Qvalue |
|---|---|---|---|
| 2) N-Nitrosodimethylamine | 0.00 | 42 | N.D. d |
| 5) Phenol | 0.00 | 94 | N.D. d |
| 6) bis(2-Chloroethyl)ether | 0.00 | 93 | N.D. d |
| 7) 2-Chlorophenol | 0.00 | 128 | N.D. d |
| 8) 1,3-Dichlorobenzene | 0.00 | 146 | N.D. d |
| 9) 1,4-Dichlorobenzene | 0.00 | 146 | N.D. d |
| 10) 1,2-Dichlorobenzene | 0.00 | 146 | N.D. d |
| 11) Benzyl alcohol | 0.00 | 108 | N.D. |
| 12) 2-Methylphenol | 0.00 | 107 | N.D. d |
| 13) 4-Methylphenol | 0.00 | 107 | N.D. d |
| 14) Bis (2-chloroisopropyl) et | 0.00 | 45 | N.D. d |
| 15) N-Nitroso-di-propylamine | 0.00 | 70 | N.D. d |
| 16) Hexachloroethane | 0.00 | 117 | N.D. d |
| 19) Nitrobenzene | 0.00 | 77 | N.D. d |
| 20) Isophorone | 0.00 | 82 | N.D. d |

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\121002\BT80877.D Vial: 14
Acq On : 11 Dec 02 4:52 am Operator: WTD
Sample : HERCULES RINSATE BLANK Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 11:17 19102 Quant Results File: 82701202.R

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 21) 2-Nitrophenol | 0.00 | 139 | | N.D. d | |
| 22) 2,4-Dimethylphenol | 0.00 | 122 | | N.D. d | |
| 23) bis(2-Chloroethoxy)methane | 0.00 | 93 | | N.D. d | |
| 24) Benzoic acid | 0.00 | 122 | | N.D. d | |
| 25) 2,4-Dichlorophenol | 0.00 | 162 | | N.D. | |
| 26) 1,2,4-Trichlorobenzene | 0.00 | 180 | | N.D. | |
| 27) Naphthalene | 0.00 | 128 | | N.D. d | |
| 28) 4-Chloroaniline | 0.00 | 127 | | N.D. d | |
| 29) Hexachlorobutadiene | 0.00 | 225 | | N.D. | |
| 30) 4-Chloro-3-methylphenol | 0.00 | 107 | | N.D. d | |
| 31) 2-Methylnaphthalene | 0.00 | 142 | | N.D. d | |
| 33) Hexachlorocyclopentadiene | 0.00 | 237 | | N.D. | |
| 34) 2,4,6-Trichlorophenol | 0.00 | 196 | | N.D. | |
| 35) 2,4,5-Trichlorophenol | 0.00 | 196 | | N.D. | |
| 36) 2-Chloronaphthalene | 0.00 | 162 | | N.D. d | |
| 38) 2-Nitroaniline | 0.00 | 65 | | N.D. d | |
| 39) 2,4-Dinitrophenol | 0.00 | 184 | | N.D. | |
| 40) 4-Nitrophenol | 0.00 | 139 | | N.D. d | |
| 41) Dimethylphthalate | 0.00 | 163 | | N.D. d | |
| 42) Acenaphthylene | 0.00 | 152 | | N.D. d | |
| 43) 3-Nitroaniline | 0.00 | 138 | | N.D. d | |
| 44) Acenaphthene | 0.00 | 154 | | N.D. d | |
| 45) Dibenzofuran | 0.00 | 168 | | N.D. d | |
| 46) 2,4-Dinitrotoluene | 0.00 | 165 | | N.D. d | |
| 47) 2,6-Dinitrotoluene | 0.00 | 165 | | N.D. d | |
| 48) Diethylphthalate | 0.00 | 149 | | N.D. d | |
| 49) 4-Chlorophenyl-phenylether | 0.00 | 204 | | N.D. d | |
| 50) Fluorene | 0.00 | 166 | | N.D. d | |
| 51) 4-Nitroaniline | 0.00 | 138 | | N.D. d | |
| 54) 4,6-Dinitro-2-methylphenol | 0.00 | 198 | | N.D. d | |
| 55) N-Nitrosodiphenylamine | 0.00 | 169 | | N.D. d | |
| 56) Diphenylamine | 0.00 | 169 | | N.D. d | |
| 57) 4-Bromophenyl-phenylether | 0.00 | 248 | | N.D. | |
| 58) Hexachlorobenzene | 0.00 | 284 | | N.D. | |
| 59) Pentachlorophenol | 0.00 | 266 | | N.D. | |
| 60) Phenanthrene | 0.00 | 178 | | N.D. d | |
| 61) Anthracene | 0.00 | 178 | | N.D. d | |

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\121002\BT80877.D Vial: 14
Acq On : 11 Dec 02 4:52 am Operator: WTD
Sample : HERCULES RINSATE BLANK Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 11:17 19102 Quant Results File: 82701202.RI

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 62) Di-n-butylphthalate | 0.00 | 149 | | N.D. d | |
| 63) Fluoranthene | 0.00 | 202 | | N.D. d | |
| 65) Pyrene | 0.00 | 202 | | N.D. d | |
| 67) Butylbenzylphthalate | 0.00 | 149 | | N.D. d | |
| 68) 3,3'-Dichlorobenzidine | 0.00 | 252 | | N.D. d | |
| 69) Benzo(a)anthracene | 0.00 | 228 | | N.D. d | |
| 70) Chrysene | 0.00 | 228 | | N.D. d | |
| 71) bis(2-Ethylhexyl)phthalate | 0.00 | 149 | | N.D. d | |
| 72) Di-n-Octylphthalate | 0.00 | 149 | | N.D. d | |
| 73) Indeno(1,2,3-cd)pyrene | 0.00 | 276 | | N.D. | |
| 75) Benzo(b)fluoranthene | 0.00 | 252 | | N.D. d | |
| 76) Benzo(k)fluoranthene | 0.00 | 252 | | N.D. d | |
| 77) Benzo(a)pyrene | 0.00 | 252 | | N.D. d | |
| 78) Dibenz(a,h)anthracene | 0.00 | 278 | | N.D. | |
| 79) Benzo(g,h,i)perylene | 0.00 | 276 | | N.D. | |

(#) = qualifier out of range (m) = manual integration

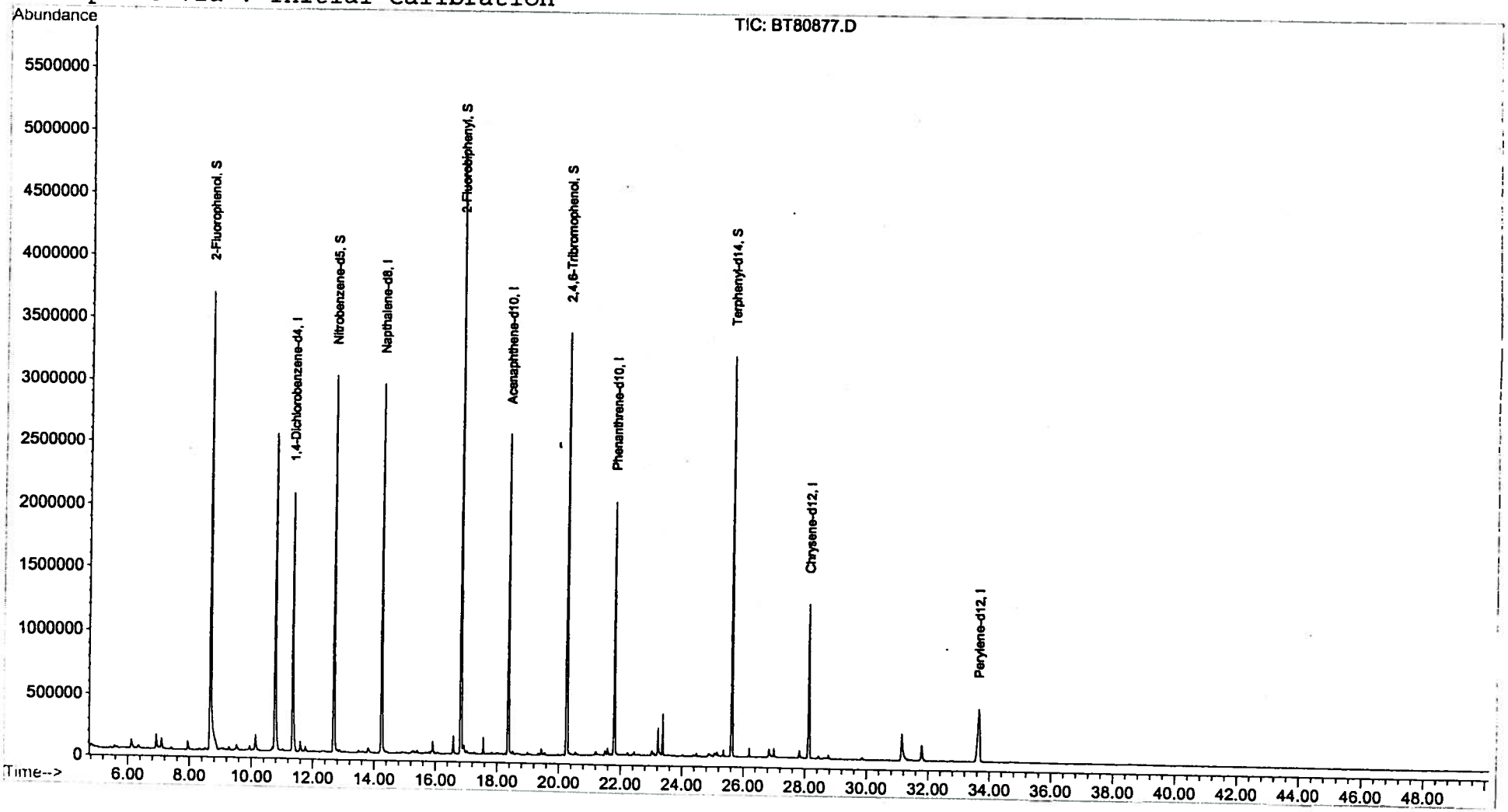
Quantit on Report

Data File : C:\HPCHEM\1\DATA\121002\BT80877.D
Acq On : 11 Dec 02 4:52 am
Sample : HERCULES RINSATE BLANK
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 12 11:17 19102

Vial: 14
Operator: WTD
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 82701202.RES

Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration



# Bonner Analytical Testing Company

2703 Oak Grove Road, Hattiesburg, MS 39402
Phone: (601) 264-2854 Fax: (601) 268-7084

## CASE NARRATIVE: Hercules, Hattiesburg MS.

### Semi-volatiles (Dioxathion Analysis)

Samples were collected and received by BATCO on December 4 and December 5, 2002. A total of 6 water samples were collected on December 4 and a total of 9 samples were collected on December 5, 20002. These samples included monitoring wells 1-11, a duplicate sample, plus a rinsate blank and two matrix spikes for a total of 15 samples. The sequence run included a Laboratory Control Sample, and a Method Blank as quality assurance measures, as well as the fore mentioned samples.

A Dioxathion Calibration working standard was prepared from the individual Dioxenethion, Dioxathion (cis) and Dioxathion (trans) isomers obtained from Sigma-Aldrich Chemicals. Dilutions were made from the working standard to obtain a six-point curve (0.4 to 10 ppm) utilizing a HP-1090 HPLC and HP-Chem software. A Diode-Array Detector, DAD, was used to obtain the data. Table 1 illustrates the retention times, linearity correlation coefficient and the MDL's.

Table 1-Calibration Data

| Dioxathion Isomer | Retention Times @ 210 nm (min) | Calibration of Linearity Correlation Coefficient | Method Detection Limits (ppb) |
|---|---|---|---|
| Dioxenethion | 4.434 | 0.9994 | 0.220 |
| Dioxathion (cis) | 8.375 | 0.9999 | 0.480 |
| Dioxathion (trans) | 9.033 | 0.9996 | 0.300 |

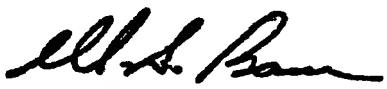
Samples were extracted on 12/11/02 using an EPA SW846 Method 3510C for Separatory Funnel Liquid-Liquid Extraction. Methylene chloride was the extracting solvent and exchanged to acetonitrile at 1-mL final volume. The samples were then analyzed on12/12/02, using the HP-1090 HPLC under the same method as the calibration. Calibration verifications were analyzed before and after the sample batch. All quality assurance criteria based on guidelines given in SW-846 Method 8000B was met. Table 2 illustrates the raw data obtained in this analysis.

Table 2-Raw Data

| Lab ID | Description | Dioxenethion | Dioxathion (cis) | Dioxathion (trans) | Surrogate Recovery |
|---|---|---|---|---|---|
| BT80863 | Monitor Well #1 | ND | ND | ND | 83.2% |
| BT80864 | Monitor Well #11 | 50.3ppb | 5.00ppb | ND | 99.4% |
| BT80865 | Monitor Well #3 | ND | ND | ND | 90.0% |
| BT80866 | Monitor Well #2 | ND | ND | ND | 87.6% |
| BT80867 | Monitor Well #10 | ND | ND | ND | 88.0% |
| BT80868 | Monitor Well #7 | 9.57ppb | ND | ND | 79.6% |
| BT80870 | Monitor Well #9 | 5.90ppb | 12.8ppb | ND | 146% |
| BT80871 | Monitor Well #4 | 12.9ppb | 3.34ppb | ND | 85.8% |
| BT80872 | Monitor Well #5 | ND | ND | ND | 82.2% |
| BT80873 | Monitor Well #6 | 1.12ppb | ND | ND | 76.0% |
| BT80874 | Monitor Well #8 | 94.3ppb | ND | 53.9ppb | 409% |
| BT80875 | Monitor Well #8 MS* | 98.9ppb | 5.35ppb | 58.4ppb | 414% |
| BT80876 | Monitor Well #8 MSD* | 98.5ppb | 5.05ppb | 57.9ppb | 386% |
| BT80877 | Rinsate Blank | ND | ND | ND | 89.4% |
| BT80879 | Sample Duplicate | 12.1ppb | 3.23ppb | ND | 79.2% |

*Spiked with 5ppb of each isomer

All samples were spiked with naphthalene (surrogate) prior to extraction. The surrogate was added to follow the extraction efficiency of the method. Two samples MW-8 and MW-9 had very high surrogate recoveries, 146% and 409%, respectively. These two samples were analyzed by GC/MS to confirm that the recoveries were due to naphthalene and not another interfering compound. Future analyses of these wells should include an alternate surrogate compound that does not co-elute with other peaks in the sample.

Authorized by: 

Michael S. Bonner, PhD.

**BONNER ANALYTICAL TESTING COMPANY**
QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: **Hercules**
Sample ID: Monitor Well #1
File #: BT80863

| | Date | | Analyst |
|---|---|---|---|
| Collected: | 12/04/02 | 1045 | MGJ |
| Extracted: | 12/11/02 | 930 | SCF |
| Analyzed: | 12/12/02 | 1313 | SCF |

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

| COMPOUNDS | MDL ug/L (ppb) | SAMPLE | | | METHOD BLANK | | | MATRIX SPIKE | | | MATRIX SPIKE DUPLICATE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detected Amount ug/L (ppb) | Spike | | Detected Amount ug/L (ppb) | Spike | | Detected Amount ug/L (ppb) | Spike | | Detected Amount ug/L (ppb) | Spike | |
| | | | Amount ug/L | % Recovery | | Amount ug/L | % Recovery | | Amount ug/L | % Recovery | | Amount ug/L | % Recovery |
| Dioxenethion | 0.22 | ND | | | ND | | | 4.61 | 5.00 | 92.2 | 4.28 | 5.00 | 85.6 |
| Dioxathion (cis) | 0.48 | ND | | | ND | | | 5.35 | 5.00 | 107.0 | 5.04 | 5.00 | 100.8 |
| Dioxathion (trans) | 0.30 | ND | | | ND | | | 4.46 | 5.00 | 89.2 | 3.91 | 5.00 | 78.2 |
| **SURROGATE COMPOUNDS** | | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery |
| Naphthalene | | 4.16 | 5.00 | 83.2 | 3.86 | 5.00 | 77.2 | 20.70 | 5.00 | 414.0 | 19.30 | 5.00 | 386.0 |

* = Matrix Spiking Compounds

Certified by: _____
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QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: **Hercules**
Sample ID: Monitor Well #11
File #: BT80864

| | Date | | Analyst |
|---|---|---|---|
| Collected: | 12/04/02 | 1210 | MGJ |
| Extracted: | 12/11/02 | 930 | SCF |
| Analyzed: | 12/12/02 | 1335 | SCF |

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

| COMPOUNDS | MDL ug/L (ppb) | SAMPLE | | | METHOD BLANK | | | MATRIX SPIKE | | | MATRIX SPIKE DUPLICATE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detected Amount ug/L (ppb) | Spike Amount ug/L | Spike % Recovery | Detected Amount ug/L (ppb) | Spike Amount ug/L | Spike % Recovery | Detected Amount ug/L (ppb) | Spike Amount ug/L | Spike % Recovery | Detected Amount ug/L (ppb) | Spike Amount ug/L | Spike % Recovery |
| Dioxenethion | 0.22 | 50.3 | | | ND | | | 4.61 | 5.00 | 92.2 | 4.28 | 5.00 | 85.6 |
| Dioxathion (cis) | 0.48 | 5.00 | | | ND | | | 5.35 | 5.00 | 107.0 | 5.04 | 5.00 | 100.8 |
| Dioxathion (trans) | 0.30 | ND | | | ND | | | 4.46 | 5.00 | 89.2 | 3.91 | 5.00 | 78.2 |
| **SURROGATE COMPOUNDS** | | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery |
| Naphthalene | | 4.97 | 5.00 | 99.4 | 3.86 | 5.00 | 77.2 | 20.70 | 5.00 | 414.0 | 19.30 | 5.00 | 386.0 |

* = Matrix Spiking Compounds

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QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: **Hercules**
Sample ID: Monitor Well #3
File #: BT80865

| | Date | | Analyst |
|---|---|---|---|
| Collected: | 12/04/02 | 1500 | MGJ |
| Extracted: | 12/11/02 | 930 | SCF |
| Analyzed: | 12/12/02 | 1358 | SCF |

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

| COMPOUNDS | MDL ug/L (ppb) | SAMPLE | | | METHOD BLANK | | | MATRIX SPIKE | | | MATRIX SPIKE DUPLICATE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detected Amount ug/L (ppb) | Spike | | Detected Amount ug/L (ppb) | Spike | | Detected Amount ug/L (ppb) | Spike | | Detected Amount ug/L (ppb) | Spike | |
| | | | Amount ug/L | % Recovery | | Amount ug/L | % Recovery | | Amount ug/L | % Recovery | | Amount ug/L | % Recovery |
| Dioxenethion | 0.22 | ND | | | ND | | | 4.61 | 5.00 | 92.2 | 4.28 | 5.00 | 85.6 |
| Dioxathion (cis) | 0.48 | ND | | | ND | | | 5.35 | 5.00 | 107.0 | 5.04 | 5.00 | 100.8 |
| Dioxathion (trans) | 0.30 | ND | | | ND | | | 4.46 | 5.00 | 89.2 | 3.91 | 5.00 | 78.2 |
| **SURROGATE COMPOUNDS** | | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery |
| Naphthalene | | 4.50 | 5.00 | 90.0 | 3.86 | 5.00 | 77.2 | 20.70 | 5.00 | 414.0 | 19.30 | 5.00 | 386.0 |

* = Matrix Spiking Compounds

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QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: **Hercules**
Sample ID: Monitor Well #2
File #: BT80866

| | Date | | Analyst |
|---|---|---|---|
| Collected: | 12/04/02 | 1545 | MGJ |
| Extracted: | 12/11/02 | 930 | SCF |
| Analyzed: | 12/12/02 | 1420 | SCF |

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

| COMPOUNDS | MDL ug/L (ppb) | SAMPLE | | | METHOD BLANK | | | MATRIX SPIKE | | | MATRIX SPIKE DUPLICATE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detected Amount ug/L (ppb) | Spike | | Detected Amount ug/L (ppb) | Spike | | Detected Amount ug/L (ppb) | Spike | | Detected Amount ug/L (ppb) | Spike | |
| | | | Amount ug/L | % Recovery | | Amount ug/L | % Recovery | | Amount ug/L | % Recovery | | Amount ug/L | % Recovery |
| Dioxenethion | 0.22 | ND | | | ND | | | 4.61 | 5.00 | 92.2 | 4.28 | 5.00 | 85.6 |
| Dioxathion (cis) | 0.48 | ND | | | ND | | | 5.35 | 5.00 | 107.0 | 5.04 | 5.00 | 100.8 |
| Dioxathion (trans) | 0.30 | ND | | | ND | | | 4.46 | 5.00 | 89.2 | 3.91 | 5.00 | 78.2 |
| **SURROGATE COMPOUNDS** | | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery |
| Naphthalene | | 4.38 | 5.00 | 87.6 | 3.86 | 5.00 | 77.2 | 20.70 | 5.00 | 414.0 | 19.30 | 5.00 | 386.0 |

* = Matrix Spiking Compounds

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QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: **Hercules**
Sample ID: Monitor Well #10
File #: BT80867

Collected: 12/04/02 1640 MGJ
Extracted: 12/11/02 930 SCF
Analyzed: 12/12/02 1442 SCF
Date Analyst

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

| COMPOUNDS | MDL ug/L (ppb) | SAMPLE | | | METHOD BLANK | | | MATRIX SPIKE | | | MATRIX SPIKE DUPLICATE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detected Amount ug/L (ppb) | Spike | | Detected Amount ug/L (ppb) | Spike | | Detected Amount ug/L (ppb) | Spike | | Detected Amount ug/L (ppb) | Spike | |
| | | | Amount ug/L | % Recovery | | Amount ug/L | % Recovery | | Amount ug/L | % Recovery | | Amount ug/L | % Recovery |
| Dioxenethion | 0.22 | ND | | | ND | | | 4.61 | 5.00 | 92.2 | 4.28 | 5.00 | 85.6 |
| Dioxathion (cis) | 0.48 | ND | | | ND | | | 5.35 | 5.00 | 107.0 | 5.04 | 5.00 | 100.8 |
| Dioxathion (trans) | 0.30 | ND | | | ND | | | 4.46 | 5.00 | 89.2 | 3.91 | 5.00 | 78.2 |
| **SURROGATE COMPOUNDS** | | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery |
| Naphthalene | | 4.40 | 5.00 | 88.0 | 3.86 | 5.00 | 77.2 | 20.70 | 5.00 | 414.0 | 19.30 | 5.00 | 386.0 |

* = Matrix Spiking Compounds

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QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: **Hercules**
Sample ID: Monitor Well #7
File #: BT80868

| | Date | | Analyst |
|---|---|---|---|
| Collected: | 12/04/02 | 1620 | MGJ |
| Extracted: | 12/11/02 | 930 | SCF |
| Analyzed: | 12/12/02 | 1504 | SCF |

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

| COMPOUNDS | MDL ug/L (ppb) | SAMPLE | | | METHOD BLANK | | | MATRIX SPIKE | | | MATRIX SPIKE DUPLICATE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detected Amount ug/L (ppb) | Spike | | Detected Amount ug/L (ppb) | Spike | | Detected Amount ug/L (ppb) | Spike | | Detected Amount ug/L (ppb) | Spike | |
| | | | Amount ug/L | % Recovery | | Amount ug/L | % Recovery | | Amount ug/L | % Recovery | | Amount ug/L | % Recovery |
| Dioxenethion | 0.22 | 9.57 | | | ND | | | 4.61 | 5.00 | 92.2 | 4.28 | 5.00 | 85.6 |
| Dioxathion (cis) | 0.48 | ND | | | ND | | | 5.35 | 5.00 | 107.0 | 5.04 | 5.00 | 100.8 |
| Dioxathion (trans) | 0.30 | ND | | | ND | | | 4.46 | 5.00 | 89.2 | 3.91 | 5.00 | 78.2 |
| **SURROGATE COMPOUNDS** | | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery |
| Naphthalene | | 3.98 | 5.00 | 79.6 | 3.86 | 5.00 | 77.2 | 20.70 | 5.00 | 414.0 | 19.30 | 5.00 | 386.0 |

* = Matrix Spiking Compounds

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QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: **Hercules**
Sample ID: Monitor Well #9
File #: BT80870

| | Date | | Analyst |
|---|---|---|---|
| Collected: | 12/05/02 | 1015 | MGJ |
| Extracted: | 12/11/02 | 930 | SCF |
| Analyzed: | 12/12/02 | 1527 | SCF |

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

| COMPOUNDS | MDL ug/L (ppb) | SAMPLE | | | METHOD BLANK | | | MATRIX SPIKE | | | MATRIX SPIKE DUPLICATE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detected Amount ug/L (ppb) | Spike | | Detected Amount ug/L (ppb) | Spike | | Detected Amount ug/L (ppb) | Spike | | Detected Amount ug/L (ppb) | Spike | |
| | | | Amount ug/L | % Recovery | | Amount ug/L | % Recovery | | Amount ug/L | % Recovery | | Amount ug/L | % Recovery |
| Dioxenethion | 0.22 | 5.90 | | | ND | | | 4.61 | 5.00 | 92.2 | 4.28 | 5.00 | 85.6 |
| Dioxathion (cis) | 0.48 | 12.8 | | | ND | | | 5.35 | 5.00 | 107.0 | 5.04 | 5.00 | 100.8 |
| Dioxathion (trans) | 0.30 | ND | | | ND | | | 4.46 | 5.00 | 89.2 | 3.91 | 5.00 | 78.2 |
| **SURROGATE COMPOUNDS** | | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery |
| Naphthalene | | 7.30 | 5.00 | 146.0 | 3.86 | 5.00 | 77.2 | 20.70 | 5.00 | 414.0 | 19.30 | 5.00 | 386.0 |

* = Matrix Spiking Compounds

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QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: **Hercules**
Sample ID: Monitor Well #4
File #: BT80871

| | Date | | Analyst |
|---|---|---|---|
| Collected: | 12/05/02 | 1315 | MGJ |
| Extracted: | 12/11/02 | 930 | SCF |
| Analyzed: | 12/12/02 | 1549 | SCF |

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

| COMPOUNDS | MDL ug/L (ppb) | SAMPLE | | | METHOD BLANK | | | MATRIX SPIKE | | | MATRIX SPIKE DUPLICATE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detected Amount ug/L (ppb) | Spike | | Detected Amount ug/L (ppb) | Spike | | Detected Amount ug/L (ppb) | Spike | | Detected Amount ug/L (ppb) | Spike | |
| | | | Amount ug/L | % Recovery | | Amount ug/L | % Recovery | | Amount ug/L | % Recovery | | Amount ug/L | % Recovery |
| Dioxenethion | 0.22 | 12.9 | | | ND | | | 4.61 | 5.00 | 92.2 | 4.28 | 5.00 | 85.6 |
| Dioxathion (cis) | 0.48 | 3.34 | | | ND | | | 5.35 | 5.00 | 107.0 | 5.04 | 5.00 | 100.8 |
| Dioxathion (trans) | 0.30 | ND | | | ND | | | 4.46 | 5.00 | 89.2 | 3.91 | 5.00 | 78.2 |
| **SURROGATE COMPOUNDS** | | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery |
| Naphthalene | | 4.29 | 5.00 | 85.8 | 3.86 | 5.00 | 77.2 | 20.70 | 5.00 | 414.0 | 19.30 | 5.00 | 386.0 |

* = Matrix Spiking Compounds

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QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: **Hercules**
Sample ID: Monitor Well #5
File #: BT80872

| | Date | | Analyst |
|---|---|---|---|
| Collected: | 12/05/02 | 1420 | MGJ |
| Extracted: | 12/11/02 | 930 | SCF |
| Analyzed: | 12/12/02 | 1611 | SCF |

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

| COMPOUNDS | MDL ug/L (ppb) | SAMPLE | | | METHOD BLANK | | | MATRIX SPIKE | | | MATRIX SPIKE DUPLICATE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detected Amount ug/L (ppb) | Spike | | Detected Amount ug/L (ppb) | Spike | | Detected Amount ug/L (ppb) | Spike | | Detected Amount ug/L (ppb) | Spike | |
| | | | Amount ug/L | % Recovery | | Amount ug/L | % Recovery | | Amount ug/L | % Recovery | | Amount ug/L | % Recovery |
| Dioxenethion | 0.22 | ND | | | ND | | | 4.61 | 5.00 | 92.2 | 4.28 | 5.00 | 85.6 |
| Dioxathion (cis) | 0.48 | ND | | | ND | | | 5.35 | 5.00 | 107.0 | 5.04 | 5.00 | 100.8 |
| Dioxathion (trans) | 0.30 | ND | | | ND | | | 4.46 | 5.00 | 89.2 | 3.91 | 5.00 | 78.2 |
| **SURROGATE COMPOUNDS** | | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery |
| Naphthalene | | 4.11 | 5.00 | 82.2 | 3.86 | 5.00 | 77.2 | 20.70 | 5.00 | 414.0 | 19.30 | 5.00 | 386.0 |

* = Matrix Spiking Compounds

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QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: **Hercules**
Sample ID: Monitor Well #6
File #: BT80873

| | Date | | Analyst |
|---|---|---|---|
| Collected: | 12/05/02 | 1530 | MGJ |
| Extracted: | 12/11/02 | 930 | SCF |
| Analyzed: | 12/12/02 | 1633 | SCF |

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

| COMPOUNDS | MDL ug/L (ppb) | SAMPLE | | | METHOD BLANK | | | MATRIX SPIKE | | | MATRIX SPIKE DUPLICATE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detected Amount ug/L (ppb) | Spike | | Detected Amount ug/L (ppb) | Spike | | Detected Amount ug/L (ppb) | Spike | | Detected Amount ug/L (ppb) | Spike | |
| | | | Amount ug/L | % Recovery | | Amount ug/L | % Recovery | | Amount ug/L | % Recovery | | Amount ug/L | % Recovery |
| Dioxenethion | 0.22 | 1.12 | | | ND | | | 4.61 | 5.00 | 92.2 | 4.28 | 5.00 | 85.6 |
| Dioxathion (cis) | 0.48 | ND | | | ND | | | 5.35 | 5.00 | 107.0 | 5.04 | 5.00 | 100.8 |
| Dioxathion (trans) | 0.30 | ND | | | ND | | | 4.46 | 5.00 | 89.2 | 3.91 | 5.00 | 78.2 |
| **SURROGATE COMPOUNDS** | | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery |
| Naphthalene | | 3.80 | 5.00 | 76.0 | 3.86 | 5.00 | 77.2 | 20.70 | 5.00 | 414.0 | 19.30 | 5.00 | 386.0 |

* = Matrix Spiking Compounds

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QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: **Hercules**
Sample ID: Monitor Well #8
File #: BT80874

| | Date | | Analyst |
|---|---|---|---|
| Collected: | 12/05/02 | 1610 | MGJ |
| Extracted: | 12/11/02 | 930 | SCF |
| Analyzed: | 12/12/02 | 1717 | SCF |

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

| COMPOUNDS | MDL ug/L (ppb) | SAMPLE Detected Amount ug/L (ppb) | SAMPLE Spike Amount ug/L | SAMPLE Spike % Recovery | METHOD BLANK Detected Amount ug/L (ppb) | METHOD BLANK Spike Amount ug/L | METHOD BLANK Spike % Recovery | MATRIX SPIKE Detected Amount ug/L (ppb) | MATRIX SPIKE Spike Amount ug/L | MATRIX SPIKE Spike % Recovery | MATRIX SPIKE DUPLICATE Detected Amount ug/L (ppb) | MATRIX SPIKE DUPLICATE Spike Amount ug/L | MATRIX SPIKE DUPLICATE Spike % Recovery |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dioxenethion | 0.22 | 94.3 | | | ND | | | 4.61 | 5.00 | 92.2 | 4.28 | 5.00 | 85.6 |
| Dioxathion (cis) | 0.48 | ND | | | ND | | | 5.35 | 5.00 | 107.0 | 5.04 | 5.00 | 100.8 |
| Dioxathion (trans) | 0.30 | 53.9 | | | ND | | | 4.46 | 5.00 | 89.2 | 3.91 | 5.00 | 78.2 |
| **SURROGATE COMPOUNDS** | | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery |
| Naphthalene | | 20.5 | 5.00 | 409.0 | 3.86 | 5.00 | 77.2 | 20.70 | 5.00 | 414.0 | 19.30 | 5.00 | 386.0 |

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QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: Hercules
Sample ID: Monitor Well #8 Matrix Spike
File #: BT80875

Collected: 12/05/02 1610 MGJ
Extracted: 12/11/02 930 SCF
Analyzed: 12/12/02 1740 SCF
Date Analyst

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

| COMPOUNDS | MDL ug/L (ppb) | SAMPLE | | | METHOD BLANK | | | MATRIX SPIKE | | | MATRIX SPIKE DUPLICATE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detected Amount ug/L (ppb) | Spike | | Detected Amount ug/L (ppb) | Spike | | Detected Amount ug/L (ppb) | Spike | | Detected Amount ug/L (ppb) | Spike | |
| | | | Amount ug/L | % Recovery | | Amount ug/L | % Recovery | | Amount ug/L | % Recovery | | Amount ug/L | % Recovery |
| Dioxenethion | 0.22 | 98.9 | | | ND | | | 4.61 | 5.00 | 92.2 | 4.28 | 5.00 | 85.6 |
| Dioxathion (cis) | 0.48 | 5.35 | | | ND | | | 5.35 | 5.00 | 107.0 | 5.04 | 5.00 | 100.8 |
| Dioxathion (trans) | 0.30 | 58.4 | | | ND | | | 4.46 | 5.00 | 89.2 | 3.91 | 5.00 | 78.2 |
| **SURROGATE COMPOUNDS** | | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery |
| Naphthalene | | 20.7 | 5.00 | 414.0 | 3.86 | 5.00 | 77.2 | 20.70 | 5.00 | 414.0 | 19.30 | 5.00 | 386.0 |

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QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: **Hercules**
Sample ID: Monitor Well #8 Matrix Spike Duplicate
File #: BT80876

| | Date | | Analyst |
|---|---|---|---|
| Collected: | 12/05/02 | 1610 | MGJ |
| Extracted: | 12/11/02 | 930 | SCF |
| Analyzed: | 12/12/02 | 1802 | SCF |

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

| COMPOUNDS | MDL ug/L (ppb) | SAMPLE | | | METHOD BLANK | | | MATRIX SPIKE | | | MATRIX SPIKE DUPLICATE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detected Amount ug/L (ppb) | Spike | | Detected Amount ug/L (ppb) | Spike | | Detected Amount ug/L (ppb) | Spike | | Detected Amount ug/L (ppb) | Spike | |
| | | | Amount ug/L | % Recovery | | Amount ug/L | % Recovery | | Amount ug/L | % Recovery | | Amount ug/L | % Recovery |
| Dioxenethion | 0.22 | 98.5 | | | ND | | | 4.61 | 5.00 | 92.2 | 4.28 | 5.00 | 85.6 |
| Dioxathion (cis) | 0.48 | 5.05 | | | ND | | | 5.35 | 5.00 | 107.0 | 5.04 | 5.00 | 100.8 |
| Dioxathion (trans) | 0.30 | 57.9 | | | ND | | | 4.46 | 5.00 | 89.2 | 3.91 | 5.00 | 78.2 |
| **SURROGATE COMPOUNDS** | | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery |
| Naphthalene | | 19.30 | 5.00 | 386.0 | 3.86 | 5.00 | 77.2 | 20.70 | 5.00 | 414.0 | 19.30 | 5.00 | 386.0 |

* = Matrix Spiking Compounds

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QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: Hercules
Sample ID: Rinsate Blank
File #: BT80877

Collected: 12/05/02 1525 MGJ
Extracted: 12/11/02 930 SCF
Analyzed: 12/12/02 1824 SCF
Date / Analyst

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

| COMPOUNDS | MDL ug/L (ppb) | SAMPLE | | | METHOD BLANK | | | MATRIX SPIKE | | | MATRIX SPIKE DUPLICATE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detected Amount ug/L (ppb) | Spike | | Detected Amount ug/L (ppb) | Spike | | Detected Amount ug/L (ppb) | Spike | | Detected Amount ug/L (ppb) | Spike | |
| | | | Amount ug/L | % Recovery | | Amount ug/L | % Recovery | | Amount ug/L | % Recovery | | Amount ug/L | % Recovery |
| Dioxenethion | 0.22 | ND | | | ND | | | 4.61 | 5.00 | 92.2 | 4.28 | 5.00 | 85.6 |
| Dioxathion (cis) | 0.48 | ND | | | ND | | | 5.35 | 5.00 | 107.0 | 5.04 | 5.00 | 100.8 |
| Dioxathion (trans) | 0.30 | ND | | | ND | | | 4.46 | 5.00 | 89.2 | 3.91 | 5.00 | 78.2 |
| **SURROGATE COMPOUNDS** | | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery |
| Naphthalene | | 4.47 | 5.00 | 89.4 | 3.86 | 5.00 | 77.2 | 20.70 | 5.00 | 414.0 | 19.30 | 5.00 | 386.0 |

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QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: **Hercules**
Sample ID: Duplicate Sample
File #: BT80879

| | Date | | Analyst |
|---|---|---|---|
| Collected: | 12/05/02 | 1315 | MGJ |
| Extracted: | 12/11/02 | 930 | SCF |
| Analyzed: | 12/12/02 | 1646 | SCF |

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

| COMPOUNDS | MDL ug/L (ppb) | SAMPLE | | | METHOD BLANK | | | MATRIX SPIKE | | | MATRIX SPIKE DUPLICATE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detected Amount ug/L (ppb) | Spike | | Detected Amount ug/L (ppb) | Spike | | Detected Amount ug/L (ppb) | Spike | | Detected Amount ug/L (ppb) | Spike | |
| | | | Amount ug/L | % Recovery | | Amount ug/L | % Recovery | | Amount ug/L | % Recovery | | Amount ug/L | % Recovery |
| Dioxenethion | 0.22 | 12.1 | | | ND | | | 4.61 | 5.00 | 92.2 | 4.28 | 5.00 | 85.6 |
| Dioxathion (cis) | 0.48 | 3.23 | | | ND | | | 5.35 | 5.00 | 107.0 | 5.04 | 5.00 | 100.8 |
| Dioxathion (trans) | 0.30 | ND | | | ND | | | 4.46 | 5.00 | 89.2 | 3.91 | 5.00 | 78.2 |
| **SURROGATE COMPOUNDS** | | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery | Detected Amount | Spiked Amount | % Recovery |
| Naphthalene | | 3.96 | 5.00 | 79.2 | 3.86 | 5.00 | 77.2 | 20.70 | 5.00 | 414.0 | 19.30 | 5.00 | 386.0 |

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Certified by: Michael S. Bonner, Ph.D
**BONNER ANALYTICAL TESTING COMPANY**

**BONNER ANALYTICAL TESTING COMPANY**

2703 Oak Grove Road, Hattiesburg, MS 39402

Phone: (601)-264-2854 Fax: (601)-268-7084 Email: batco@batco.com

**WWW.BATCO.COM**

Testing Your World for a Safer Tomorrow

YOUR COMPANY NAME: Hercules

YOUR COMPANY ADDRESS: 613 7th St
Hattiesburg, MS 39401

NAME OF PERSON TO CONTACT: Charlie Jordan

CONTACT PERSON'S PHONE: (601) 936-4440 FAX:

CONTACT PERSON'S EMAIL:

| CLIENT PROJECT NO. | CLIENT P.O.# | CLIENT PROJECT NUMBER |
|---|---|---|
| | | |

| | SAMPLE DESCRIPTION | DATE | TIME | MATRIX | Dioxathion | Semi - Vol | VOA | | | | | NUMBER OF CONTAINERS | PRESERVATION | File ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MW-1 | 12/4/02 | 1045 | Liquid | X | | | | | | | 2 | | BT80863 |
| X 2 | MW-11 | 12/4/02 | 1210 | Liquid | X | X | X | | | | | 7 | | BT80864 |
| 3 | MW-3 | 12/4/02 | 1500 | Liquid | X | | | | | | | 2 | | BT80865 |
| 4 | MW-2 | 12/4/02 | 1545 | Liquid | X | | | | | | | 2 | | BT80866 |
| X 5 | MW-10 | 12/4/02 | 1640 | Liquid | X | X | X | | | | | 7 | | BT80867 |
| X 6 | MW-7 | 12/4/02 | 1620 | Liquid | X | X | X | | | | | 7 | | BT80868 |
| 7 | Trip Blank | 12/3/02 | 1604 | Liquid | | | X | | | | | 3 | | BT80869 |
| 8 | | | | | | | | | | | | | | BT |
| 9 | | | | | | | | | | | | | | BT |
| 10 | | | | | | | | | | | | | | BT |

PARAMETERS FOR ANALYSIS

LABORATORY USE

Turn Around Time

Project Number 005456

| SAMPLE COLLECTOR/RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
|---|---|---|---|
| | 12-4-02 | 17:20 | |

| METHOD OF SHIPMENT (If Any) | RELINQUISHED BY: |
|---|---|
| | |

| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
|---|---|---|---|
| | 12/5/02 | 0805 | |

| DATE | TIME | RECEIVED FOR BATCO BY: | DATE/TIME |
|---|---|---|---|
| | | | 12-5-02 0805 |

REMARKS:

☐ REQUEST BATCO TO DISPOSE OF ALL SAMPLE REMAINDERS

(Signature)

IF SAMPLE IS DETERMINED TO BE HAZARDOUS, A MINIMUM ADDITIONAL CHARGE OF $30.00 PER SAMPLE WILL BE ASSESSED.

REVISION NO 1.2
03/22/01

**BONNER ANALYTICAL TESTING COMPANY**

2703 Oak Grove Road, Hattiesburg, MS 39402

Phone: (601)-264-2854 Fax: (601)-268-7084 Email: batco@batco.com

**WWW.BATCO.COM**


Testing Your World for a Safer Tomorrow

YOUR COMPANY NAME: Hercules

YOUR COMPANY ADDRESS: 613 7th St
Hattiesburg MS 39401

NAME OF PERSON TO CONTACT: Charlie Jordan

CONTACT PERSON'S PHONE: _____ FAX: _____

CONTACT PERSON'S EMAIL: _____

| CLIENT PROJECT NO. | CLIENT P.O.# | CLIENT PROJECT NUMBER |
|---|---|---|
| | | |

| SAMPLE DESCRIPTION | DATE | TIME | MATRIX | Dioxsthion | Semi-VOA | VOA | | | | | NUMBER OF CONTAINERS | PRESERVATION | LABORATORY USE: File ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 MW-9 | 12/5/02 | 1019 | Liquid | X | X | X | | | | | 7 | | BT80870 |
| 2 MW-4 | 12/5/02 | 1315 | Liquid | X | | X | | | | | 5 | | BT80871 |
| 3 MW-5 | 12/5/02 | 1420 | Liquid | X | | | | | | | 2 | | BT80872 |
| 4 MW-6 | 12/5/02 | 1330 | Liquid | X | | | | | | | 2 | | BT80873 |
| 5 MW-8 | 12/5/02 | ~~1115~~ 1610 MS | Liquid | X | X | X | | | | | 7 | | BT80874 |
| 6 MS | 12/5/02 | 1610 | Liquid | X | X | X | | | | | 7 | | BT80875 |
| 7 MSD | 12/5/02 | 1610 | Liquid | X | X | X | | | | | 7 | | BT80876 |
| 8 Rinsate Blank | 12/5/02 | 1525 | Liquid | X | X | X | | | | | 7 | | BT80877 |
| 9 Trip Blank | 12/3/02 | 1601 | Liquid | | | X | | | | | 3 | | BT80878 |
| 10 Dup. | 12/3/02 | 1315 | Liquid | X | X* | X | | | | | 7 mod | | BT80879 |

PARAMETERS FOR ANALYSIS

LABORATORY USE: Turn Around Time

Project Number: 005456

| SAMPLE COLLECTOR/RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
|---|---|---|---|
| Charles V. Day | 05 DEC 02 | 1658 | |

| METHOD OF SHIPMENT (If Any) | RELINQUISHED BY: |
|---|---|
| | |

| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
|---|---|---|---|
| | | | |

| DATE | TIME | RECEIVED FOR BATCO BY: | DATE/TIME |
|---|---|---|---|
| | | | 12-6-02 0800 |

REMARKS: * Semi-VOA Dup collected at 1610

☐ REQUEST BATCO TO DISPOSE OF ALL SAMPLE REMAINDERS

_____ (Signature)

IF SAMPLE IS DETERMINED TO BE HAZARDOUS, A MINIMUM ADDITIONAL CHARGE OF $30.00 PER SAMPLE WILL BE ASSESSED.

REVISION NO 1.2
03/22/01

12 31 DI H2O Loop FLush

13 32 ACN Blank

Method and Injection Info Part:

| Line | Vial | SampleName | Method | Inj | SampleType | InjVolume | DataFile |
|---|---|---|---|---|---|---|---|
| 1 | 30 | ACN FLUSH | BLANK | 2 | Sample | | X |
| 2 | 31 | DI FLUSH | BLANK | 2 | Sample | | Y |
| 3 | 32 | ACN BLANK | DIOXBLK | 1 | Sample | | Z |
| 4 | 0 | CC1 | DIOXFULL | 1 | Sample | | 1210cc1 |
| 5 | 1 | CC2 | DIOXFULL | 1 | Sample | | 1210cc2 |
| 6 | 2 | CC3 | DIOXFULL | 1 | Sample | | 1210cc3 |
| 7 | 3 | CC4 | DIOXFULL | 1 | Sample | | 1210cc4 |
| 8 | 4 | CC5 | DIOXFULL | 1 | Sample | | 1210cc5 |
| 9 | 5 | CC6 | DIOXFULL | 1 | Sample | | 1210cc6 |
| 10 | 6 | CC7 | DIOXFULL | 1 | Sample | | 1210cc7 |
| 11 | 30 | ACN FLUSH | BLANK | 2 | Sample | | X |
| 12 | 31 | DI FLUSH | BLANK | 2 | Sample | | Y |
| 13 | 32 | ACN BLANK | DIOXBLK | 1 | Sample | | Z |

Calibration Part:

| Line | Vial | SampleName | Method | CalLev | Update RF | Update RT | Interval |
|---|---|---|---|---|---|---|---|

Quantification Part:

| Line | Vial | SampleName | SampleAmount | ISTDAmt | Multiplier | Dilution |
|---|---|---|---|---|---|---|
| 1 | 30 | ACN FLUSH | | | | |
| 2 | 31 | DI FLUSH | | | | |
| 3 | 32 | ACN BLANK | | | | |
| 4 | 0 | CC1 | | | | |
| 5 | 1 | CC2 | | | | |
| 6 | 2 | CC3 | | | | |
| 7 | 3 | CC4 | | | | |
| 8 | 4 | CC5 | | | | |
| 9 | 5 | CC6 | | | | |
| 10 | 6 | CC7 | | | | |
| 11 | 30 | ACN FLUSH | | | | |
| 12 | 31 | DI FLUSH | | | | |
| 13 | 32 | ACN BLANK | | | | |

Sequence Output Parameters:

| | |
|---|---|
| Print Sequence Summary Report (SSR): | No |
| Dest of individual reports for each run: | as specified in Method |

Sequence Summary Parameters:

| | |
|---|---|
| One page header: | No |
| Print Configuration: | No |
| Print Sequence: | No |
| Print Logbook: | No |
| Print Method(s): | No |
| Print Analysis reports: | No |
| Print Statistics for Calib. runs: | No |
| Print Statistics for Sample runs: | No |
| Summary style: | Sample Summary |

Sequence: C:\HPCHEM\1\SEQUENCE\121102.S

Sequence Parameters:

| | |
|---|---|
| Operator: | Steve Flowers |
| Data File Naming: | Auto |
| Data Directory: | C:\HPCHEM\1\DATA\ |
| Data Subdirectory: | 121102 |
| Part of Methods to run: | Acquisition only |
| Wait Time after loading Method: | 0 min |
| Barcode Reader: | not used |
| Sequence Timeout: | 0 min |
| Shutdown Cmd/Macro: | macro "SHUTDOWN.MAC",go |

Sequence Comment:
Hercules Dioxathion Study for Monitoring Wells 1-11

Sequence Table:

Vial Information Part:

| Line | Vial | Vial Information |
|---|---|---|
| 1 | 30 | ACN Loop Flush |
| 2 | 31 | Distilled H2O Loop Flush |
| 3 | 32 | ACN Blank |
| 4 | 19 | Initial Calibration Mid Point 5 ppm Diox mix, 4 ppm Naphthylene |
| 5 | 0 | Method Blank for Hercules Dioxathion 12/11/02 |
| 6 | 1 | Lab Control for Hercules Dioxathion 12/11/02 |
| 7 | 30 | ACN Loop Flush |
| 8 | 31 | Distilled H2O Loop Flush |
| 9 | 32 | ACN Blank |

Sequence: C:\HPCHEM\1\SEQUENCE\121102.S

| Line | Vial | Vial Information |
|---|---|---|
| 10 | 2 | Hercules: Monitoring Well #1<br>Collected 12/4/02 @ 1045 MGJ, Extracted 12/11/02@ 0900 SCF<br>Volume Collected= 820 mL |
| 11 | 3 | Hercules:Monitoring Well #11<br>Collected 12/4/02 @ 1210 MGJ, Extracted 12/11/02@ 0900 SCF<br>Volume Collected= 835 mL |
| 12 | 4 | Hercules:Monitoring Well #3<br>Collected 12/4/02 @ 1500 MGJ, Extracted 12/11/02@ 0900 SCF<br>Volume Collected= 860 mL |
| 13 | 5 | Hercules:Monitoring Well #2<br>Collected 12/4/02 @ 1545 MGJ, Extracted 12/11/02@ 0900 SCF<br>Volume Collected= 900 mL |
| 14 | 6 | Hercules:Monitoring Well #10<br>Collected 12/4/02 @ 1640 MGJ, Extracted 12/11/02@ 0900 SCF<br>Volume Collected= 930 mL |
| 15 | 7 | Hercules:Monitoring Well #7<br>Collected 12/4/02 @ 1620 MGJ, Extracted 12/11/02@ 0900 SCF<br>Volume Collected= 850 mL |
| 16 | 8 | Hercules:Monitoring Well #9<br>Collected 12/5/02 @ 1015 MGJ, Extracted 12/11/02@ 0900 SCF<br>Volume Collected= 880 mL |
| 17 | 9 | Hercules:Monitoring Well #4<br>Collected 12/5/02 @ 1315 MGJ, Extracted 12/11/02@ 0900 SCF<br>Volume Collected= 900 mL |
| 18 | 10 | Hercules:Monitoring Well #5<br>Collected 12/5/02 @ 1420 MGJ, Extracted 12/11/02@ 0900 SCF<br>Volume Collected= 910 mL |
| 19 | 11 | Hercules:Monitoring Well #6<br>Collected 12/5/02 @1530 MGJ, Extracted 12/11/02@ 0900 SCF<br>Volume Collected= 920 mL |
| 20 | 19 | Continuing Calibration Mid Point 5 ppm Diox mix, 4 ppm Naphthylene |
| 21 | 12 | Hercules:Monitoring Well #8<br>Collected 12/5/02 @ 1610 MGJ, Extracted 12/11/02@ 0900 SCF<br>Volume Collected= 870 mL |
| 22 | 13 | Hercules:Monitoring Well #8 Matrix Spike<br>Collected 12/5/02 @ 1610 MGJ, Extracted 12/11/02@ 0900 SCF<br>Volume Collected= 870 mL |

Sequence: C:\HPCHEM\1\SEQUENCE\121102.S

| Line | Vial | Vial Information |
|---|---|---|
| 23 | 14 | Hercules:Monitoring Well #8 Matrix Spike Duplicate<br>Collected 12/5/02 @ 1610 MGJ, Extracted 12/11/02@ 0900 SCF<br>Volume Collected= 910 mL |
| 24 | 15 | Hercules:Rinsate Blank<br>Collected 12/5/02 @ 1525 MGJ, Extracted 12/11/02@ 0900 SCF<br>Volume Collected= 880 mL |
| 25 | 16 | Hercules:Sample Duplicate<br>Collected 12/5/02 @ 1315 MGJ, Extracted 12/11/02@ 0900 SCF<br>Volume Collected= 880 mL |
| 26 | 19 | Continuing Calibration Mid Point 5 ppm Diox mix, 4 ppm Naphthylene |
| 27 | 30 | ACN Loop Flush |
| 28 | 31 | Distilled H20 Loop Flush |
| 29 | 32 | ACN Blank |

Method and Injection Info Part:

| Line | Vial | SampleName | Method | Inj | SampleType | InjVolume | DataFile |
|---|---|---|---|---|---|---|---|
| 1 | 30 | ACN Flush | BLANK | 2 | Sample | | X |
| 2 | 31 | DI Flush | BLANK | 2 | Sample | | Y |
| 3 | 32 | ACN Blank | DIOXBLK | 1 | Sample | | Z |
| 4 | 19 | CC4 | DIOXFULL | 1 | Sample | | IC1210A |
| 5 | 0 | Method Blank | DIOXFULL | 1 | Sample | | MB1210 |
| 6 | 1 | Lab Control | DIOXFULL | 1 | Sample | | LC1210 |
| 7 | 30 | ACN Flush | BLANK | 2 | Sample | | X |
| 8 | 31 | DI Flush | BLANK | 2 | Sample | | Y |
| 9 | 32 | ACN Blank | DIOXBLK | 1 | Sample | | Z |
| 10 | 2 | MW-1 | DIOXFULL | 1 | Sample | | BT80863 |
| 11 | 3 | MW-11 | DIOXFULL | 1 | Sample | | BT80864 |
| 12 | 4 | MW-3 | DIOXFULL | 1 | Sample | | BT80865 |
| 13 | 5 | MW-2 | DIOXFULL | 1 | Sample | | BT80866 |
| 14 | 6 | MW-10 | DIOXFULL | 1 | Sample | | BT80867 |
| 15 | 7 | MW-7 | DIOXFULL | 1 | Sample | | BT80868 |
| 16 | 8 | MW-9 | DIOXFULL | 1 | Sample | | BT80870 |
| 17 | 9 | MW-4 | DIOXFULL | 1 | Sample | | BT80871 |
| 18 | 10 | MW-5 | DIOXFULL | 1 | Sample | | BT80872 |
| 19 | 11 | MW-6 | DIOXFULL | 1 | Sample | | BT80873 |
| 20 | 19 | CC4 | DIOXFULL | 1 | Sample | | CC1210A |
| 21 | 12 | MW-8 | DIOXFULL | 1 | Sample | | BT80874 |
| 22 | 13 | MW-8 MS | DIOXFULL | 1 | Sample | | BT80875 |
| 23 | 14 | MW-8 MSD | DIOXFULL | 1 | Sample | | BT80876 |
| 24 | 15 | Rinsate Blank | DIOXFULL | 1 | Sample | | BT80877 |
| 25 | 16 | Duplicate | DIOXFULL | 1 | Sample | | BT80879 |
| 26 | 19 | CC4 | DIOXFULL | 1 | Sample | | CC1210B |

Sequence: C:\HPCHEM\1\SEQUENCE\121102.S

| Line | Vial | SampleName | Method | Inj | SampleType | InjVolume | DataFile |
|---|---|---|---|---|---|---|---|
| 27 | 30 | ACN Flush | BLANK | 2 | Sample | | X |
| 28 | 31 | DI Flush | BLANK | 2 | Sample | | Y |
| 29 | 32 | ACN Blank | DIOXBLK | 1 | Sample | | Z |

Calibration Part:

| Line | Vial | SampleName | Method | CalLev | Update RF | Update RT | Interval |
|---|---|---|---|---|---|---|---|

Quantification Part:

| Line | Vial | SampleName | SampleAmount | ISTDAmt | Multiplier | Dilution |
|---|---|---|---|---|---|---|
| 1 | 30 | ACN Flush | | | | |
| 2 | 31 | DI Flush | | | | |
| 3 | 32 | ACN Blank | | | | |
| 4 | 19 | CC4 | | | | |
| 5 | 0 | Method Blank | | | | |
| 6 | 1 | Lab Control | | | | |
| 7 | 30 | ACN Flush | | | | |
| 8 | 31 | DI Flush | | | | |
| 9 | 32 | ACN Blank | | | | |
| 10 | 2 | MW-1 | | | | |
| 11 | 3 | MW-11 | | | | |
| 12 | 4 | MW-3 | | | | |
| 13 | 5 | MW-2 | | | | |
| 14 | 6 | MW-10 | | | | |
| 15 | 7 | MW-7 | | | | |
| 16 | 8 | MW-9 | | | | |
| 17 | 9 | MW-4 | | | | |
| 18 | 10 | MW-5 | | | | |
| 19 | 11 | MW-6 | | | | |
| 20 | 19 | CC4 | | | | |
| 21 | 12 | MW-8 | | | | |
| 22 | 13 | MW-8 MS | | | | |
| 23 | 14 | MW-8 MSD | | | | |
| 24 | 15 | Rinsate Blank | | | | |
| 25 | 16 | Duplicate | | | | |
| 26 | 19 | CC4 | | | | |
| 27 | 30 | ACN Flush | | | | |
| 28 | 31 | DI Flush | | | | |
| 29 | 32 | ACN Blank | | | | |

Sequence Output Parameters:

| | |
|---|---|
| Print Sequence Summary Report (SSR): | No |
| Dest of individual reports for each run: | as specified in Method |

Sequence Summary Parameters:

| | |
|---|---|
| One page header: | No |
| Print Configuration: | No |
| Print Sequence: | No |
| Print Logbook: | No |
| Print Method(s): | No |
| Print Analysis reports: | No |
| Print Statistics for Calib. runs: | No |
| Print Statistics for Sample runs: | No |
| Summary style: | Sample Summary |