

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA G\DATA\BG121417\  
 Data File : BG031562.D  
 Acq On : 14 Dec 2017 17:18  
 Operator : SJ/JU  
 Sample : PB105021BS  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB105021BS

Manual Integrations  
 APPROVED

Sohil  
 12/15/2017 6:46:56 PM

Quant Time: Dec 15 03:47:18 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG121117.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 11 17:25:55 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.10  | 152  | 67394    | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 10.91 | 136  | 287714   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10      | 14.72 | 164  | 186187   | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10      | 17.47 | 188  | 464395   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12          | 21.74 | 240  | 537792   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 25.02 | 264  | 505946   | 20.00 | ng    | -0.01    |

## System Monitoring Compounds

|                          |       |     |         |        |    |      |
|--------------------------|-------|-----|---------|--------|----|------|
| 5) 2-Fluorophenol        | 5.66  | 112 | 512558  | 134.81 | ng | 0.00 |
| 7) Phenol-d6             | 7.27  | 99  | 645503  | 122.29 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 9.27  | 82  | 386372  | 82.77  | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 16.22 | 330 | 285830  | 131.04 | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 13.35 | 172 | 1056375 | 83.28  | ng | 0.00 |
| 78) Terphenyl-d14        | 20.06 | 244 | 1825537 | 77.23  | ng | 0.00 |

## Target Compounds

|                                |       |     |        |        |    | Qvalue |
|--------------------------------|-------|-----|--------|--------|----|--------|
| 2) 1,4-Dioxane                 | 3.49  | 88  | 59161  | 32.611 | ng | # 82   |
| 3) Pyridine                    | 3.91  | 79  | 157969 | 33.072 | ng | 88     |
| 4) n-Nitrosodimethylamine      | 3.82  | 42  | 80373  | 35.724 | ng | # 90   |
| 6) Aniline                     | 7.42  | 93  | 137875 | 19.835 | ng | 94     |
| 8) 2-Chlorophenol              | 7.67  | 128 | 172054 | 40.568 | ng | 90     |
| 9) Benzaldehyde                | 7.23  | 77  | 106106 | 34.681 | ng | 88     |
| 10) Phenol                     | 7.30  | 94  | 212321 | 39.157 | ng | 91     |
| 11) bis(2-Chloroethyl)ether    | 7.51  | 93  | 155056 | 35.037 | ng | 90     |
| 12) 1,3-Dichlorobenzene        | 8.13  | 146 | 189858 | 37.644 | ng | 95     |
| 13) 1,4-Dichlorobenzene        | 8.13  | 146 | 189858 | 36.221 | ng | 93     |
| 14) 1,2-Dichlorobenzene        | 8.45  | 146 | 180116 | 36.072 | ng | 97     |
| 15) Benzyl Alcohol             | 8.34  | 79  | 144017 | 34.879 | ng | 91     |
| 16) 2,2'-oxybis(1-Chloropropan | 8.62  | 45  | 234007 | 47.067 | ng | 91     |
| 17) 2-Methylphenol             | 8.55  | 107 | 144245 | 39.026 | ng | 96     |
| 18) Hexachloroethane           | 9.18  | 117 | 67636  | 38.280 | ng | 94     |
| 19) n-Nitroso-di-n-propylamine | 8.90  | 70  | 121753 | 29.307 | ng | # 94   |
| 20) 3+4-Methylphenols          | 8.88  | 107 | 195961 | 35.590 | ng | 98     |
| 22) Acetophenone               | 8.92  | 105 | 256307 | 37.134 | ng | # 94   |
| 24) Nitrobenzene               | 9.31  | 77  | 183475 | 38.358 | ng | # 93   |
| 25) Isophorone                 | 9.83  | 82  | 336480 | 38.143 | ng | # 94   |
| 26) 2-Nitrophenol              | 10.03 | 139 | 97638  | 41.280 | ng | 90     |
| 27) 2,4-Dimethylphenol         | 10.08 | 122 | 162589 | 45.251 | ng | 95     |
| 28) bis(2-Chloroethoxy)methane | 10.30 | 93  | 212911 | 37.384 | ng | 97     |
| 29) 2,4-Dichlorophenol         | 10.57 | 162 | 182998 | 43.229 | ng | 91     |
| 30) 1,2,4-Trichlorobenzene     | 10.77 | 180 | 208464 | 38.552 | ng | 97     |
| 31) Naphthalene                | 10.96 | 128 | 507333 | 35.893 | ng | 100    |
| 32) Benzoic acid               | 10.25 | 122 | 58732  | 32.994 | ng | 84     |
| 33) 4-Chloroaniline            | 11.09 | 127 | 51731  | 8.429  | ng | 94     |
| 34) Hexachlorobutadiene        | 11.24 | 225 | 133648 | 37.261 | ng | 98     |
| 35) Caprolactam                | 11.86 | 113 | 65421m | 39.357 | ng |        |
| 36) 4-Chloro-3-methylphenol    | 12.20 | 107 | 184100 | 38.100 | ng | 87     |
| 37) 2-Methylnaphthalene        | 12.56 | 142 | 397053 | 36.281 | ng | 95     |
| 39) 1,2,4,5-Tetrachlorobenzene | 12.93 | 216 | 264817 | 36.393 | ng | 96     |
| 40) Hexachlorocyclopentadiene  | 12.90 | 237 | 173902 | 72.761 | ng | 94     |

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|--------------------------------|-------|------|----------|--------|-------|----------|
| 42) 2,4,6-Trichlorophenol      | 13.17 | 196  | 160181   | 43.086 | nq    | 97       |
| 43) 2,4,5-Trichlorophenol      | 13.26 | 196  | 168605   | 42.101 | nq #  | 94       |
| 45) 1,1'-Biphenyl              | 13.56 | 154  | 549159   | 35.911 | nq    | 98       |
| 46) 2-Chloronaphthalene        | 13.61 | 162  | 418596   | 37.399 | nq    | 96       |
| 47) 2-Nitroaniline             | 13.82 | 65   | 115343   | 36.673 | nq #  | 81       |
| 48) Acenaphthylene             | 14.45 | 152  | 634625   | 35.238 | nq    | 98       |
| 49) Dimethylphthalate          | 14.18 | 163  | 561529   | 36.429 | nq    | 99       |
| 50) 2,6-Dinitrotoluene         | 14.30 | 165  | 126464   | 38.383 | nq #  | 78       |
| 51) Acenaphthene               | 14.79 | 154  | 397740   | 34.927 | nq    | 99       |
| 52) 3-Nitroaniline             | 14.64 | 138  | 53415    | 15.904 | nq #  | 78       |
| 53) 2,4-Dinitrophenol          | 14.86 | 184  | 101478   | 74.507 | nq #  | 50       |
| 54) Dibenzofuran               | 15.12 | 168  | 647403   | 35.627 | nq    | 99       |
| 55) 4-Nitrophenol              | 14.96 | 139  | 178791   | 78.837 | nq #  | 83       |
| 56) 2,4-Dinitrotoluene         | 15.10 | 165  | 179121   | 38.277 | nq #  | 75       |
| 57) Fluorene                   | 15.77 | 166  | 516393   | 35.465 | nq    | 97       |
| 58) 2,3,4,6-Tetrachlorophenol  | 15.36 | 232  | 164939   | 43.817 | nq #  | 91       |
| 59) Diethylphthalate           | 15.53 | 149  | 550157   | 35.607 | nq    | 99       |
| 60) 4-Chlorophenyl-phenylether | 15.76 | 204  | 307562   | 34.525 | nq    | 91       |
| 61) 4-Nitroaniline             | 15.80 | 138  | 125423   | 35.585 | nq    | 89       |
| 62) Azobenzene                 | 16.05 | 77   | 448280   | 35.024 | nq    | 95       |
| 64) 4,6-Dinitro-2-methylphenol | 15.86 | 198  | 96903    | 35.858 | nq    | 80       |
| 65) n-Nitrosodiphenylamine     | 15.97 | 169  | 476335   | 35.043 | nq    | 99       |
| 66) 4-Bromophenyl-phenylether  | 16.65 | 248  | 203001   | 37.592 | nq    | 98       |
| 67) Hexachlorobenzene          | 16.78 | 284  | 208044   | 37.309 | nq    | 96       |
| 68) Atrazine                   | 16.91 | 200  | 191752   | 38.580 | nq    | 97       |
| 69) Pentachlorophenol          | 17.13 | 266  | 174612   | 66.194 | nq    | 98       |
| 70) Phenanthrene               | 17.51 | 178  | 886868   | 36.567 | nq    | 99       |
| 71) Anthracene                 | 17.60 | 178  | 904982   | 37.728 | nq    | 98       |
| 72) Carbazole                  | 17.87 | 167  | 825624   | 38.035 | nq    | 99       |
| 73) Di-n-butylphthalate        | 18.41 | 149  | 959599   | 38.280 | nq    | 99       |
| 74) Fluoranthene               | 19.51 | 202  | 1156878  | 38.115 | nq    | 97       |
| 76) Benzidine                  | 19.69 | 184  | 296796   | 23.714 | nq    | 97       |
| 77) Pyrene                     | 19.88 | 202  | 1192504  | 35.686 | nq    | 98       |
| 79) Butylbenzylphthalate       | 20.74 | 149  | 472044   | 40.267 | nq    | 85       |
| 80) Benzo(a)anthracene         | 21.72 | 228  | 1214091  | 37.402 | nq    | 99       |
| 81) 3,3'-Dichlorobenzidine     | 21.63 | 252  | 263516   | 23.325 | nq    | 95       |
| 82) Chrysene                   | 21.78 | 228  | 1166464  | 37.484 | nq    | 98       |
| 83) Bis(2-ethylhexyl)phthalate | 21.60 | 149  | 660616   | 39.169 | nq    | 99       |
| 84) Di-n-octyl phthalate       | 22.82 | 149  | 1094717  | 39.350 | nq #  | 95       |
| 85) Indeno(1,2,3-cd)pyrene     | 28.80 | 276  | 1144680  | 34.420 | nq #  | 79       |
| 87) Benzo(b)fluoranthene       | 23.98 | 252  | 1175641  | 38.867 | nq    | 99       |
| 88) Benzo(k)fluoranthene       | 24.05 | 252  | 1144951  | 37.091 | nq    | 98       |
| 89) Benzo(a)pyrene             | 24.87 | 252  | 1106483  | 38.561 | nq    | 99       |
| 90) Dibenzo(a,h)anthracene     | 28.84 | 278  | 957456   | 34.893 | nq    | 99       |
| 91) Benzo(g,h,i)perylene       | 29.98 | 276  | 928111   | 34.404 | nq    | 98       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

