

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG070317\  
 Data File : BG027830.D  
 Acq On : 3 Jul 2017 13:36  
 Operator : SJ/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTDCCC040

Quant Time: Jul 04 06:52:26 2017  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG062817.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jun 28 19:26:37 2017  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 85    | -0.03    |
| 2    | 1,4-Dioxane                 | 0.484 | 0.418 | 13.6   | 73    | -0.03    |
| 3    | Pyridine                    | 1.489 | 1.292 | 13.2   | 71    | -0.03    |
| 4    | n-Nitrosodimethylamine      | 0.730 | 0.706 | 3.3    | 84    | -0.03    |
| 5 S  | 2-Fluorophenol              | 1.299 | 1.259 | 3.1    | 80    | -0.03    |
| 6    | Aniline                     | 2.300 | 1.769 | 23.1   | 62    | -0.02    |
| 7 S  | Phenol-d6                   | 1.984 | 1.886 | 4.9    | 78    | -0.02    |
| 8    | 2-Chlorophenol              | 1.451 | 1.443 | 0.6    | 83    | -0.03    |
| 9    | Benzaldehyde                | 1.181 | 1.039 | 12.0   | 72    | -0.03    |
| 10 C | Phenol                      | 1.963 | 1.819 | 7.3    | 75    | -0.02    |
| 11   | bis(2-Chloroethyl)ether     | 1.491 | 1.676 | -12.4  | 93    | -0.03    |
| 12   | 1,3-Dichlorobenzene         | 1.544 | 1.603 | -3.8   | 86    | -0.02    |
| 13 C | 1,4-Dichlorobenzene         | 1.600 | 1.679 | -4.9   | 88    | -0.03    |
| 14   | 1,2-Dichlorobenzene         | 1.551 | 1.662 | -7.2   | 89    | -0.03    |
| 15   | Benzyl Alcohol              | 1.373 | 0.582 | 57.6#  | 34#   | -0.02    |
| 16   | 2,2'-oxybis(1-Chloropropane | 3.180 | 2.834 | 10.9   | 74    | -0.02    |
| 17   | 2-Methylphenol              | 1.389 | 1.391 | -0.1   | 80    | -0.02    |
| 18   | Hexachloroethane            | 0.563 | 0.569 | -1.1   | 86    | -0.03    |
| 19 P | n-Nitroso-di-n-propylamine  | 1.443 | 1.317 | 8.7    | 74    | -0.02    |
| 20   | 3+4-Methylphenols           | 2.003 | 1.873 | 6.5    | 75    | -0.02    |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0    | 81    | -0.02    |
| 22   | Acetophenone                | 0.483 | 0.484 | -0.2   | 81    | -0.03    |
| 23 S | Nitrobenzene-d5             | 0.359 | 0.363 | -1.1   | 81    | -0.02    |
| 24   | Nitrobenzene                | 0.375 | 0.379 | -1.1   | 81    | -0.02    |
| 25   | Isophorone                  | 0.782 | 0.730 | 6.6    | 75    | -0.02    |
| 26 C | 2-Nitrophenol               | 0.169 | 0.179 | -5.9   | 82    | -0.03    |
| 27   | 2,4-Dimethylphenol          | 0.317 | 0.314 | 0.9    | 78    | -0.02    |
| 28   | bis(2-Chloroethoxy)methane  | 0.443 | 0.401 | 9.5    | 73    | -0.02    |
| 29 C | 2,4-Dichlorophenol          | 0.278 | 0.299 | -7.6   | 85    | -0.01    |
| 30   | 1,2,4-Trichlorobenzene      | 0.284 | 0.315 | -10.9  | 90    | -0.03    |
| 31   | Naphthalene                 | 1.064 | 1.078 | -1.3   | 81    | -0.02    |
| 32   | Benzoic acid                | 0.169 | 0.102 | 39.6#  | 48#   | -0.01    |
| 33   | 4-Chloroaniline             | 0.459 | 0.428 | 6.8    | 73    | 0.04     |
| 34 C | Hexachlorobutadiene         | 0.158 | 0.203 | -28.5# | 106   | -0.02    |
| 35   | Caprolactam                 | 0.140 | 0.116 | 17.1   | 66    | 0.00     |
| 36 C | 4-Chloro-3-methylphenol     | 0.391 | 0.363 | 7.2    | 74    | -0.01    |
| 37   | 2-Methylnaphthalene         | 0.792 | 0.799 | -0.9   | 81    | -0.02    |
| 38 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0    | 77    | -0.02    |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 0.526 | 0.639 | -21.5  | 93    | -0.02    |
| 40 P | Hexachlorocyclopentadiene   | 0.248 | 0.311 | -25.4# | 96    | -0.02    |
| 41 S | 2,4,6-Tribromophenol        | 0.274 | 0.361 | -31.8# | 99    | -0.02    |
| 42 C | 2,4,6-Trichlorophenol       | 0.380 | 0.432 | -13.7  | 86    | -0.02    |
| 43   | 2,4,5-Trichlorophenol       | 0.430 | 0.484 | -12.6  | 83    | -0.01    |
| 44 S | 2-Fluorobiphenyl            | 1.400 | 1.593 | -13.8  | 87    | -0.02    |

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                   | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|----------------------------|-------|-------|-------|-------|----------|
| 45   | 1,1'-Biphenyl              | 1.603 | 1.712 | -6.8  | 82    | -0.03    |
| 46   | 2-Chloronaphthalene        | 1.211 | 1.292 | -6.7  | 82    | -0.02    |
| 47   | 2-Nitroaniline             | 0.485 | 0.467 | 3.7   | 71    | -0.02    |
| 48   | Acenaphthylene             | 2.213 | 2.309 | -4.3  | 79    | -0.02    |
| 49   | Dimethylphthalate          | 1.706 | 1.740 | -2.0  | 78    | -0.02    |
| 50   | 2,6-Dinitrotoluene         | 0.371 | 0.386 | -4.0  | 77    | -0.02    |
| 51 C | Acenaphthene               | 1.418 | 1.498 | -5.6  | 80    | -0.02    |
| 52   | 3-Nitroaniline             | 0.436 | 0.410 | 6.0   | 70    | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 0.164 | 0.197 | -20.1 | 91    | -0.02    |
| 54   | Dibenzofuran               | 1.875 | 1.960 | -4.5  | 80    | -0.02    |
| 55 P | 4-Nitrophenol              | 0.333 | 0.291 | 12.6  | 64    | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 0.517 | 0.537 | -3.9  | 77    | -0.01    |
| 57   | Fluorene                   | 1.818 | 1.894 | -4.2  | 79    | -0.02    |
| 58   | 2,3,4,6-Tetrachlorophenol  | 0.371 | 0.402 | -8.4  | 83    | -0.02    |
| 59   | Diethylphthalate           | 1.889 | 1.871 | 1.0   | 76    | -0.02    |
| 60   | 4-Chlorophenyl-phenylether | 0.805 | 0.886 | -10.1 | 83    | -0.02    |
| 61   | 4-Nitroaniline             | 0.455 | 0.429 | 5.7   | 71    | -0.01    |
| 62   | Azobenzene                 | 1.660 | 1.504 | 9.4   | 69    | -0.02    |
| 63 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 77    | -0.02    |
| 64   | 4,6-Dinitro-2-methylphenol | 0.115 | 0.130 | -13.0 | 86    | -0.02    |
| 65 c | n-Nitrosodiphenylamine     | 0.651 | 0.674 | -3.5  | 78    | -0.02    |
| 66   | 4-Bromophenyl-phenylether  | 0.209 | 0.250 | -19.6 | 90    | -0.02    |
| 67   | Hexachlorobenzene          | 0.222 | 0.267 | -20.3 | 92    | -0.02    |
| 68   | Atrazine                   | 0.205 | 0.218 | -6.3  | 79    | -0.01    |
| 69 C | Pentachlorophenol          | 0.123 | 0.143 | -16.3 | 88    | -0.02    |
| 70   | Phenanthrene               | 1.155 | 1.206 | -4.4  | 79    | -0.02    |
| 71   | Anthracene                 | 1.166 | 1.229 | -5.4  | 79    | -0.02    |
| 72   | Carbazole                  | 1.148 | 1.187 | -3.4  | 78    | -0.02    |
| 73   | Di-n-butylphthalate        | 1.262 | 1.299 | -2.9  | 77    | -0.02    |
| 74 C | Fluoranthene               | 1.262 | 1.358 | -7.6  | 82    | -0.02    |
| 75 I | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 82    | -0.03    |
| 76   | Benzidine                  | 0.447 | 0.258 | 42.3# | 43#   | 0.00     |
| 77   | Pyrene                     | 1.255 | 1.288 | -2.6  | 83    | -0.02    |
| 78 S | Terphenyl-d14              | 0.853 | 0.944 | -10.7 | 87    | -0.01    |
| 79   | Butylbenzylphthalate       | 0.565 | 0.534 | 5.5   | 76    | -0.02    |
| 80   | Benzo(a)anthracene         | 1.209 | 1.245 | -3.0  | 83    | -0.03    |
| 81   | 3,3'-Dichlorobenzidine     | 0.439 | 0.463 | -5.5  | 84    | -0.03    |
| 82   | Chrysene                   | 1.133 | 1.173 | -3.5  | 83    | -0.03    |
| 83   | Bis(2-ethylhexyl)phthalate | 0.826 | 0.774 | 6.3   | 75    | -0.03    |
| 84 c | Di-n-octyl phthalate       | 1.365 | 1.297 | 5.0   | 75    | -0.03    |
| 85   | Indeno(1,2,3-cd)pyrene     | 1.295 | 1.453 | -12.2 | 88    | -0.07    |
| 86 I | Perylene-d12               | 1.000 | 1.000 | 0.0   | 89    | -0.04    |
| 87   | Benzo(b)fluoranthene       | 1.289 | 1.281 | 0.6   | 87    | -0.04    |

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|------|------------------------|-------|-------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 1.274 | 1.252 | 1.7  | 85    | -0.04    |
| 89 C | Benzo(a)pyrene         | 1.209 | 1.203 | 0.5  | 86    | -0.04    |
| 90   | Dibenzo(a,h)anthracene | 1.225 | 1.267 | -3.4 | 90    | -0.07    |
| 91   | Benzo(g,h,i)perylene   | 1.177 | 1.218 | -3.5 | 90    | -0.07    |

(#) = Out of Range

SPCC's out = 0 CCC's out = 1