

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG051119\  
 Data File : BG040892.D  
 Acq On : 12 May 2019 4:04  
 Operator : HP/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTDCCC040

Quant Time: May 13 04:32:16 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG042319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 24 05:35:33 2019  
 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    | 128   | -0.02    |
| 2    | 1,4-Dioxane                 | 0.516 | 0.485 | 6.0    | 125   | -0.02    |
| 3    | Pyridine                    | 1.496 | 1.428 | 4.5    | 121   | -0.02    |
| 4    | n-Nitrosodimethylamine      | 0.830 | 0.761 | 8.3    | 123   | -0.02    |
| 5 S  | 2-Fluorophenol              | 1.135 | 1.122 | 1.1    | 131   | -0.02    |
| 6    | Aniline                     | 2.315 | 2.173 | 6.1    | 123   | -0.02    |
| 7 S  | Phenol-d6                   | 1.747 | 1.706 | 2.3    | 129   | -0.02    |
| 8    | 2-Chlorophenol              | 1.385 | 1.352 | 2.4    | 127   | -0.03    |
| 9    | Benzaldehyde                | 1.083 | 1.037 | 4.2    | 130   | -0.02    |
| 10 C | Phenol                      | 1.878 | 1.838 | 2.1    | 129   | -0.02    |
| 11   | bis(2-Chloroethyl)ether     | 1.408 | 1.332 | 5.4    | 125   | -0.03    |
| 12   | 1,3-Dichlorobenzene         | 1.512 | 1.520 | -0.5   | 133   | -0.02    |
| 13 C | 1,4-Dichlorobenzene         | 1.533 | 1.498 | 2.3    | 129   | -0.02    |
| 14   | 1,2-Dichlorobenzene         | 1.478 | 1.478 | 0.0    | 133   | -0.03    |
| 15   | Benzyl Alcohol              | 1.818 | 1.610 | 11.4   | 116   | -0.03    |
| 16   | 2,2'-oxybis(1-Chloropropane | 2.804 | 2.256 | 19.5   | 106   | -0.02    |
| 17   | 2-Methylphenol              | 1.329 | 1.285 | 3.3    | 128   | -0.02    |
| 18   | Hexachloroethane            | 0.629 | 0.602 | 4.3    | 127   | -0.03    |
| 19 P | n-Nitroso-di-n-propylamine  | 1.573 | 1.390 | 11.6   | 119   | -0.03    |
| 20   | 3+4-Methylphenols           | 1.851 | 1.779 | 3.9    | 126   | -0.02    |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0    | 126   | -0.03    |
| 22   | Acetophenone                | 0.556 | 0.558 | -0.4   | 126   | -0.03    |
| 23 S | Nitrobenzene-d5             | 0.433 | 0.460 | -6.2   | 135   | -0.02    |
| 24   | Nitrobenzene                | 0.462 | 0.484 | -4.8   | 135   | -0.02    |
| 25   | Isophorone                  | 0.964 | 0.903 | 6.3    | 119   | -0.04    |
| 26 C | 2-Nitrophenol               | 0.166 | 0.207 | -24.7# | 160#  | -0.02    |
| 27   | 2,4-Dimethylphenol          | 0.311 | 0.310 | 0.3    | 127   | -0.03    |
| 28   | bis(2-Chloroethoxy)methane  | 0.484 | 0.457 | 5.6    | 119   | -0.02    |
| 29 C | 2,4-Dichlorophenol          | 0.353 | 0.376 | -6.5   | 133   | -0.03    |
| 30   | 1,2,4-Trichlorobenzene      | 0.392 | 0.428 | -9.2   | 138   | -0.02    |
| 31   | Naphthalene                 | 1.063 | 1.073 | -0.9   | 126   | -0.03    |
| 32   | Benzoic acid                | 0.213 | 0.260 | -22.1  | 160#  | -0.02    |
| 33   | 4-Chloroaniline             | 0.471 | 0.470 | 0.2    | 128   | -0.03    |
| 34 C | Hexachlorobutadiene         | 0.289 | 0.337 | -16.6  | 148   | -0.03    |
| 35   | Caprolactam                 | 0.139 | 0.139 | 0.0    | 125   | -0.02    |
| 36 C | 4-Chloro-3-methylphenol     | 0.445 | 0.466 | -4.7   | 136   | -0.02    |
| 37   | 2-Methylnaphthalene         | 0.794 | 0.809 | -1.9   | 128   | -0.03    |
| 38   | 1-Methylnaphthalene         | 0.777 | 0.784 | -0.9   | 128   | -0.03    |
| 39 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0    | 136   | -0.03    |
| 40   | 1,2,4,5-Tetrachlorobenzene  | 0.745 | 0.793 | -6.4   | 144   | -0.03    |
| 41 P | Hexachlorocyclopentadiene   | 0.440 | 0.429 | 2.5    | 133   | -0.03    |
| 42 S | 2,4,6-Tribromophenol        | 0.275 | 0.321 | -16.7  | 161#  | -0.02    |
| 43 C | 2,4,6-Trichlorophenol       | 0.450 | 0.503 | -11.8  | 156#  | -0.03    |
| 44   | 2,4,5-Trichlorophenol       | 0.490 | 0.539 | -10.0  | 151#  | -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 S | 2-Fluorobiphenyl           | 1.385 | 1.383 | 0.1    | 135   | -0.03    |
| 46   | 1,1'-Biphenyl              | 1.553 | 1.507 | 3.0    | 132   | -0.03    |
| 47   | 2-Chloronaphthalene        | 1.215 | 1.221 | -0.5   | 137   | -0.02    |
| 48   | 2-Nitroaniline             | 0.433 | 0.470 | -8.5   | 152#  | -0.02    |
| 49   | Acenaphthylene             | 2.062 | 1.964 | 4.8    | 128   | -0.02    |
| 50   | Dimethylphthalate          | 1.673 | 1.670 | 0.2    | 135   | -0.02    |
| 51   | 2,6-Dinitrotoluene         | 0.327 | 0.368 | -12.5  | 154#  | -0.02    |
| 52 C | Acenaphthene               | 1.201 | 1.124 | 6.4    | 130   | -0.02    |
| 53   | 3-Nitroaniline             | 0.335 | 0.369 | -10.1  | 151#  | -0.02    |
| 54 P | 2,4-Dinitrophenol          | 0.161 | 0.229 | -42.2# | 201#  | -0.02    |
| 55   | Dibenzofuran               | 1.967 | 1.949 | 0.9    | 136   | -0.02    |
| 56 P | 4-Nitrophenol              | 0.290 | 0.301 | -3.8   | 145   | -0.02    |
| 57   | 2,4-Dinitrotoluene         | 0.444 | 0.540 | -21.6  | 169#  | -0.02    |
| 58   | Fluorene                   | 1.590 | 1.557 | 2.1    | 134   | -0.02    |
| 59   | 2,3,4,6-Tetrachlorophenol  | 0.494 | 0.560 | -13.4  | 154#  | -0.02    |
| 60   | Diethylphthalate           | 1.766 | 1.681 | 4.8    | 130   | -0.03    |
| 61   | 4-Chlorophenyl-phenylether | 0.925 | 0.972 | -5.1   | 144   | -0.03    |
| 62   | 4-Nitroaniline             | 0.374 | 0.401 | -7.2   | 147   | -0.02    |
| 63   | Azobenzene                 | 1.818 | 1.593 | 12.4   | 119   | -0.02    |
| 64 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0    | 144   | -0.03    |
| 65   | 4,6-Dinitro-2-methylphenol | 0.092 | 0.126 | -37.0# | 211#  | -0.02    |
| 66 c | n-Nitrosodiphenylamine     | 0.588 | 0.541 | 8.0    | 134   | -0.02    |
| 67   | 4-Bromophenyl-phenylether  | 0.249 | 0.253 | -1.6   | 149   | -0.03    |
| 68   | Hexachlorobenzene          | 0.258 | 0.265 | -2.7   | 151#  | -0.02    |
| 69   | Atrazine                   | 0.233 | 0.199 | 14.6   | 121   | -0.03    |
| 70 C | Pentachlorophenol          | 0.151 | 0.165 | -9.3   | 158#  | -0.02    |
| 71   | Phenanthrene               | 1.077 | 1.015 | 5.8    | 136   | -0.02    |
| 72   | Anthracene                 | 1.083 | 1.013 | 6.5    | 134   | -0.03    |
| 73   | Carbazole                  | 0.987 | 0.919 | 6.9    | 134   | -0.02    |
| 74   | Di-n-butylphthalate        | 1.191 | 1.073 | 9.9    | 130   | -0.04    |
| 75 C | Fluoranthene               | 1.342 | 1.315 | 2.0    | 141   | -0.03    |
| 76 I | Chrysene-d12               | 1.000 | 1.000 | 0.0    | 135   | -0.04    |
| 77   | Benzidine                  | 0.548 | 0.492 | 10.2   | 115   | -0.02    |
| 78   | Pyrene                     | 1.254 | 1.312 | -4.6   | 139   | -0.02    |
| 79 S | Terphenyl-d14              | 0.903 | 0.937 | -3.8   | 137   | -0.03    |
| 80   | Butylbenzylphthalate       | 0.489 | 0.498 | -1.8   | 138   | -0.04    |
| 81   | Benzo(a)anthracene         | 1.264 | 1.332 | -5.4   | 141   | -0.03    |
| 82   | 3,3'-Dichlorobenzidine     | 0.451 | 0.486 | -7.8   | 143   | -0.04    |
| 83   | Chrysene                   | 1.202 | 1.261 | -4.9   | 140   | -0.03    |
| 84   | Bis(2-ethylhexyl)phthalate | 0.705 | 0.687 | 2.6    | 131   | -0.05    |
| 85 c | Di-n-octyl phthalate       | 1.188 | 1.155 | 2.8    | 131   | -0.08    |
| 86   | Indeno(1,2,3-cd)pyrene     | 1.453 | 1.583 | -8.9   | 148   | -0.10    |
| 87 I | Perylene-d12               | 1.000 | 1.000 | 0.0    | 149   | -0.07    |

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|------|------------------------|-------|-------|------|-------|----------|
| 88   | Benzo(b)fluoranthene   | 1.222 | 1.191 | 2.5  | 145   | -0.06    |
| 89   | Benzo(k)fluoranthene   | 1.141 | 1.131 | 0.9  | 148   | -0.05    |
| 90 C | Benzo(a)pyrene         | 1.157 | 1.141 | 1.4  | 146   | -0.07    |
| 91   | Dibenzo(a,h)anthracene | 1.171 | 1.155 | 1.4  | 146   | -0.11    |
| 92   | Benzo(g,h,i)perylene   | 1.165 | 1.152 | 1.1  | 146   | -0.12    |

(#) = Out of Range

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