

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG073116\  
 Data File : BG023366.D  
 Acq On : 31 Jul 2016 12:52  
 Operator : UM/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTDCCC040

Quant Time: Aug 01 02:13:19 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG072616.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 27 17:30:33 2016  
 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    | 119   | 0.00     |
| 2    | 1,4-Dioxane                 | 0.502 | 0.463 | 7.8    | 109   | 0.00     |
| 3    | Pyridine                    | 1.759 | 1.615 | 8.2    | 87    | -0.03    |
| 4    | n-Nitrosodimethylamine      | 0.795 | 0.578 | 27.3#  | 68    | -0.01    |
| 5 S  | 2-Fluorophenol              | 1.172 | 1.185 | -1.1   | 118   | 0.00     |
| 6    | Aniline                     | 2.402 | 2.600 | -8.2   | 128   | 0.00     |
| 7 S  | Phenol-d6                   | 1.799 | 1.792 | 0.4    | 113   | 0.00     |
| 8    | 2-Chlorophenol              | 1.307 | 1.387 | -6.1   | 125   | 0.00     |
| 9    | Benzaldehyde                | 1.292 | 1.379 | -6.7   | 125   | 0.00     |
| 10 C | Phenol                      | 1.898 | 1.918 | -1.1   | 117   | 0.00     |
| 11   | bis(2-Chloroethyl)ether     | 1.613 | 1.623 | -0.6   | 119   | 0.00     |
| 12   | 1,3-Dichlorobenzene         | 1.473 | 1.535 | -4.2   | 125   | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 1.503 | 1.602 | -6.6   | 125   | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 1.450 | 1.543 | -6.4   | 126   | 0.00     |
| 15   | Benzyl Alcohol              | 1.210 | 1.358 | -12.2  | 127   | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 2.567 | 2.286 | 10.9   | 117   | -0.02    |
| 17   | 2-Methylphenol              | 1.297 | 1.323 | -2.0   | 123   | 0.00     |
| 18   | Hexachloroethane            | 0.626 | 0.618 | 1.3    | 116   | -0.02    |
| 19 P | n-Nitroso-di-n-propylamine  | 1.618 | 1.598 | 1.2    | 113   | 0.00     |
| 20   | 3+4-Methylphenols           | 1.764 | 1.869 | -6.0   | 123   | 0.00     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0    | 122   | 0.00     |
| 22   | Acetophenone                | 0.522 | 0.518 | 0.8    | 117   | 0.00     |
| 23 S | Nitrobenzene-d5             | 0.409 | 0.379 | 7.3    | 111   | 0.00     |
| 24   | Nitrobenzene                | 0.475 | 0.409 | 13.9   | 105   | 0.00     |
| 25   | Isophorone                  | 0.845 | 0.792 | 6.3    | 111   | 0.00     |
| 26 C | 2-Nitrophenol               | 0.179 | 0.192 | -7.3   | 127   | -0.02    |
| 27   | 2,4-Dimethylphenol          | 0.302 | 0.311 | -3.0   | 126   | -0.02    |
| 28   | bis(2-Chloroethoxy)methane  | 0.474 | 0.483 | -1.9   | 126   | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 0.293 | 0.317 | -8.2   | 126   | -0.02    |
| 30   | 1,2,4-Trichlorobenzene      | 0.323 | 0.339 | -5.0   | 124   | 0.00     |
| 31   | Naphthalene                 | 0.929 | 0.941 | -1.3   | 124   | -0.02    |
| 32   | Benzoic acid                | 0.215 | 0.276 | -28.4# | 160#  | 0.00     |
| 33   | 4-Chloroaniline             | 0.429 | 0.480 | -11.9  | 140   | 0.00     |
| 34 C | Hexachlorobutadiene         | 0.212 | 0.215 | -1.4   | 111   | 0.00     |
| 35   | Caprolactam                 | 0.124 | 0.129 | -4.0   | 130   | 0.02     |
| 36 C | 4-Chloro-3-methylphenol     | 0.385 | 0.391 | -1.6   | 118   | 0.00     |
| 37   | 2-Methylnaphthalene         | 0.689 | 0.731 | -6.1   | 127   | -0.02    |
| 38 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0    | 115   | -0.02    |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 0.648 | 0.703 | -8.5   | 122   | -0.02    |
| 40 P | Hexachlorocyclopentadiene   | 0.307 | 0.367 | -19.5  | 120   | -0.02    |
| 41 S | 2,4,6-Tribromophenol        | 0.207 | 0.262 | -26.6# | 130   | -0.02    |
| 42 C | 2,4,6-Trichlorophenol       | 0.380 | 0.433 | -13.9  | 124   | -0.02    |
| 43   | 2,4,5-Trichlorophenol       | 0.403 | 0.440 | -9.2   | 120   | -0.02    |
| 44 S | 2-Fluorobiphenyl            | 1.069 | 1.111 | -3.9   | 119   | 0.00     |

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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              | 1.395 | 1.487 | -6.6  | 125   | 0.00     |
| 46   | 2-Chloronaphthalene        | 1.118 | 1.162 | -3.9  | 120   | -0.01    |
| 47   | 2-Nitroaniline             | 0.473 | 0.458 | 3.2   | 112   | -0.01    |
| 48   | Acenaphthylene             | 1.711 | 1.769 | -3.4  | 119   | -0.02    |
| 49   | Dimethylphthalate          | 1.476 | 1.442 | 2.3   | 112   | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 0.346 | 0.352 | -1.7  | 118   | 0.00     |
| 51 C | Acenaphthene               | 1.110 | 1.119 | -0.8  | 118   | -0.02    |
| 52   | 3-Nitroaniline             | 0.348 | 0.390 | -12.1 | 134   | -0.01    |
| 53 P | 2,4-Dinitrophenol          | 0.202 | 0.231 | -14.4 | 127   | -0.01    |
| 54   | Dibenzofuran               | 1.571 | 1.598 | -1.7  | 117   | -0.02    |
| 55 P | 4-Nitrophenol              | 0.302 | 0.307 | -1.7  | 123   | -0.03    |
| 56   | 2,4-Dinitrotoluene         | 0.487 | 0.487 | 0.0   | 115   | -0.01    |
| 57   | Fluorene                   | 1.387 | 1.388 | -0.1  | 115   | -0.02    |
| 58   | 2,3,4,6-Tetrachlorophenol  | 0.342 | 0.378 | -10.5 | 119   | -0.02    |
| 59   | Diethylphthalate           | 1.512 | 1.455 | 3.8   | 110   | -0.02    |
| 60   | 4-Chlorophenyl-phenylether | 0.751 | 0.755 | -0.5  | 114   | -0.01    |
| 61   | 4-Nitroaniline             | 0.365 | 0.394 | -7.9  | 125   | -0.01    |
| 62   | Azobenzene                 | 1.567 | 1.409 | 10.1  | 104   | -0.02    |
| 63 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 113   | -0.02    |
| 64   | 4,6-Dinitro-2-methylphenol | 0.128 | 0.145 | -13.3 | 121   | -0.01    |
| 65 c | n-Nitrosodiphenylamine     | 0.534 | 0.578 | -8.2  | 120   | -0.01    |
| 66   | 4-Bromophenyl-phenylether  | 0.202 | 0.232 | -14.9 | 124   | -0.02    |
| 67   | Hexachlorobenzene          | 0.203 | 0.247 | -21.7 | 133   | -0.02    |
| 68   | Atrazine                   | 0.205 | 0.201 | 2.0   | 110   | -0.02    |
| 69 C | Pentachlorophenol          | 0.125 | 0.146 | -16.8 | 123   | -0.02    |
| 70   | Phenanthrene               | 0.875 | 0.912 | -4.2  | 113   | -0.02    |
| 71   | Anthracene                 | 0.884 | 0.927 | -4.9  | 112   | -0.02    |
| 72   | Carbazole                  | 0.810 | 0.821 | -1.4  | 116   | -0.02    |
| 73   | Di-n-butylphthalate        | 0.903 | 0.901 | 0.2   | 109   | -0.02    |
| 74 C | Fluoranthene               | 0.998 | 0.928 | 7.0   | 110   | -0.02    |
| 75 I | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 105   | -0.02    |
| 76   | Benzidine                  | 0.563 | 0.513 | 8.9   | 95    | -0.02    |
| 77   | Pyrene                     | 1.135 | 1.165 | -2.6  | 113   | -0.02    |
| 78 S | Terphenyl-d14              | 0.615 | 0.644 | -4.7  | 115   | -0.02    |
| 79   | Butylbenzylphthalate       | 0.499 | 0.495 | 0.8   | 107   | -0.02    |
| 80   | Benzo(a)anthracene         | 1.047 | 1.061 | -1.3  | 109   | -0.02    |
| 81   | 3,3'-Dichlorobenzidine     | 0.425 | 0.455 | -7.1  | 111   | -0.03    |
| 82   | Chrysene                   | 1.012 | 0.991 | 2.1   | 106   | -0.03    |
| 83   | Bis(2-ethylhexyl)phthalate | 0.699 | 0.693 | 0.9   | 106   | -0.03    |
| 84 c | Di-n-octyl phthalate       | 1.143 | 1.178 | -3.1  | 108   | -0.04    |
| 85   | Indeno(1,2,3-cd)pyrene     | 1.180 | 1.297 | -9.9  | 114   | -0.08    |
| 86 I | Perylene-d12               | 1.000 | 1.000 | 0.0   | 109   | -0.05    |
| 87   | Benzo(b)fluoranthene       | 1.062 | 1.105 | -4.0  | 113   | -0.04    |

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|------|------------------------|-------|-------|-------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 1.062 | 1.087 | -2.4  | 112   | -0.04    |
| 89 C | Benzo(a)pyrene         | 1.041 | 1.063 | -2.1  | 111   | -0.04    |
| 90   | Dibenzo(a,h)anthracene | 0.985 | 1.085 | -10.2 | 119   | -0.07    |
| 91   | Benzo(g,h,i)perylene   | 1.037 | 1.093 | -5.4  | 100   | -0.09    |

(#) = Out of Range

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