

Data Path : Z:\HPCHEM1\BNA G\Data\BG120617\  
 Data File : BG031389.D  
 Acq On : 7 Dec 2017 4:02  
 Operator : SJ/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTDCCC040

Quant Time: Dec 07 08:43:53 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG111017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 06 17:58:37 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                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 153#  | 0.00     |
| 2    | 1,4-Dioxane                 | 0.473 | 0.449 | 5.1   | 146   | 0.00     |
| 3    | Pyridine                    | 1.374 | 1.337 | 2.7   | 142   | 0.00     |
| 4    | n-Nitrosodimethylamine      | 0.651 | 0.676 | -3.8  | 153#  | 0.00     |
| 5 S  | 2-Fluorophenol              | 1.166 | 1.192 | -2.2  | 152#  | 0.00     |
| 6    | Aniline                     | 2.068 | 2.068 | 0.0   | 148   | 0.00     |
| 7 S  | Phenol-d6                   | 1.571 | 1.631 | -3.8  | 152#  | 0.00     |
| 8    | 2-Chlorophenol              | 1.287 | 1.301 | -1.1  | 150#  | 0.00     |
| 9    | Benzaldehyde                | 1.100 | 0.980 | 10.9  | 132   | 0.00     |
| 10 C | Phenol                      | 1.632 | 1.674 | -2.6  | 151#  | 0.00     |
| 11   | bis(2-Chloroethyl)ether     | 1.303 | 1.330 | -2.1  | 152#  | 0.00     |
| 12   | 1,3-Dichlorobenzene         | 1.510 | 1.506 | 0.3   | 151#  | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 1.530 | 1.568 | -2.5  | 154#  | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 1.469 | 1.489 | -1.4  | 151#  | 0.00     |
| 15   | Benzyl Alcohol              | 1.260 | 1.221 | 3.1   | 141   | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 1.439 | 1.744 | -21.2 | 182#  | 0.00     |
| 17   | 2-Methylphenol              | 1.136 | 1.135 | 0.1   | 147   | 0.00     |
| 18   | Hexachloroethane            | 0.533 | 0.534 | -0.2  | 148   | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine  | 1.195 | 1.156 | 3.3   | 140   | 0.00     |
| 20   | 3+4-Methylphenols           | 1.616 | 1.629 | -0.8  | 147   | 0.00     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0   | 149   | 0.00     |
| 22   | Acetophenone                | 0.498 | 0.493 | 1.0   | 142   | 0.00     |
| 23 S | Nitrobenzene-d5             | 0.338 | 0.342 | -1.2  | 147   | 0.00     |
| 24   | Nitrobenzene                | 0.345 | 0.347 | -0.6  | 145   | 0.00     |
| 25   | Isophorone                  | 0.658 | 0.621 | 5.6   | 137   | 0.00     |
| 26 C | 2-Nitrophenol               | 0.180 | 0.191 | -6.1  | 154#  | 0.00     |
| 27   | 2,4-Dimethylphenol          | 0.267 | 0.261 | 2.2   | 141   | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 0.415 | 0.416 | -0.2  | 145   | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 0.320 | 0.326 | -1.9  | 144   | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 0.382 | 0.385 | -0.8  | 146   | 0.00     |
| 31   | Naphthalene                 | 0.983 | 0.976 | 0.7   | 147   | 0.00     |
| 32   | Benzoic acid                | 0.204 | 0.058 | 71.6# | 41#   | -0.02    |
| 33   | 4-Chloroaniline             | 0.430 | 0.436 | -1.4  | 144   | 0.00     |
| 34 C | Hexachlorobutadiene         | 0.265 | 0.258 | 2.6   | 145   | 0.00     |
| 35   | Caprolactam                 | 0.131 | 0.115 | 12.2  | 132   | 0.00     |
| 36 C | 4-Chloro-3-methylphenol     | 0.349 | 0.339 | 2.9   | 140   | 0.00     |
| 37   | 2-Methylnaphthalene         | 0.759 | 0.743 | 2.1   | 144   | 0.00     |
| 38 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0   | 145   | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 0.794 | 0.807 | -1.6  | 146   | 0.00     |
| 40 P | Hexachlorocyclopentadiene   | 0.221 | 0.216 | 2.3   | 135   | 0.00     |
| 41 S | 2,4,6-Tribromophenol        | 0.324 | 0.248 | 23.5  | 111   | 0.00     |
| 42 C | 2,4,6-Trichlorophenol       | 0.454 | 0.451 | 0.7   | 139   | 0.00     |
| 43   | 2,4,5-Trichlorophenol       | 0.496 | 0.474 | 4.4   | 136   | 0.00     |
| 44 S | 2-Fluorobiphenyl            | 1.392 | 1.365 | 1.9   | 141   | 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                   | AvqRF | CCRF   | %Dev  | Area% | Dev(min) |
|------|----------------------------|-------|--------|-------|-------|----------|
| 45   | 1,1'-Biphenyl              | 1.658 | 1.636  | 1.3   | 142   | 0.00     |
| 46   | 2-Chloronaphthalene        | 1.197 | 1.193  | 0.3   | 142   | 0.00     |
| 47   | 2-Nitroaniline             | 0.355 | 0.356  | -0.3  | 143   | 0.00     |
| 48   | Acenaphthylene             | 1.958 | 1.917  | 2.1   | 141   | 0.00     |
| 49   | Dimethylphthalate          | 1.729 | 1.644  | 4.9   | 138   | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 0.356 | 0.356  | 0.0   | 139   | 0.00     |
| 51 C | Acenaphthene               | 1.223 | 1.193  | 2.5   | 141   | 0.00     |
| 52   | 3-Nitroaniline             | 0.378 | 0.373  | 1.3   | 139   | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 0.169 | 0.024# | 85.8# | 19#   | 0.02     |
| 54   | Dibenzofuran               | 1.948 | 1.909  | 2.0   | 140   | 0.00     |
| 55 P | 4-Nitrophenol              | 0.270 | 0.259  | 4.1   | 138   | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 0.515 | 0.512  | 0.6   | 141   | 0.00     |
| 57   | Fluorene                   | 1.582 | 1.541  | 2.6   | 142   | 0.00     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 0.473 | 0.444  | 6.1   | 135   | 0.00     |
| 59   | Diethylphthalate           | 1.757 | 1.645  | 6.4   | 137   | 0.00     |
| 60   | 4-Chlorophenyl-phenylether | 0.955 | 0.942  | 1.4   | 142   | 0.00     |
| 61   | 4-Nitroaniline             | 0.401 | 0.383  | 4.5   | 138   | 0.00     |
| 62   | Azobenzene                 | 1.340 | 1.337  | 0.2   | 144   | 0.00     |
| 63 I | Phenanthrene-d10           | 1.000 | 1.000  | 0.0   | 144   | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 0.133 | 0.053  | 60.2# | 56    | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 0.606 | 0.598  | 1.3   | 140   | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 0.253 | 0.238  | 5.9   | 131   | 0.00     |
| 67   | Hexachlorobenzene          | 0.269 | 0.241  | 10.4  | 126   | 0.00     |
| 68   | Atrazine                   | 0.250 | 0.226  | 9.6   | 132   | 0.00     |
| 69 C | Pentachlorophenol          | 0.149 | 0.120  | 19.5  | 115   | 0.00     |
| 70   | Phenanthrene               | 1.041 | 1.007  | 3.3   | 138   | 0.00     |
| 71   | Anthracene                 | 1.043 | 1.027  | 1.5   | 141   | 0.00     |
| 72   | Carbazole                  | 0.978 | 0.937  | 4.2   | 137   | 0.00     |
| 73   | Di-n-butylphthalate        | 1.200 | 1.114  | 7.2   | 134   | 0.00     |
| 74 C | Fluoranthene               | 1.318 | 1.270  | 3.6   | 139   | 0.00     |
| 75 I | Chrysene-d12               | 1.000 | 1.000  | 0.0   | 138   | 0.00     |
| 76   | Benzidine                  | 0.642 | 0.515  | 19.8  | 106   | 0.00     |
| 77   | Pyrene                     | 1.187 | 1.241  | -4.5  | 141   | 0.00     |
| 78 S | Terphenyl-d14              | 0.906 | 0.858  | 5.3   | 129   | 0.00     |
| 79   | Butylbenzylphthalate       | 0.473 | 0.477  | -0.8  | 137   | 0.00     |
| 80   | Benzo(a)anthracene         | 1.242 | 1.219  | 1.9   | 134   | 0.00     |
| 81   | 3,3'-Dichlorobenzidine     | 0.501 | 0.450  | 10.2  | 122   | 0.00     |
| 82   | Chrysene                   | 1.149 | 1.139  | 0.9   | 136   | 0.00     |
| 83   | Bis(2-ethylhexyl)phthalate | 0.683 | 0.679  | 0.6   | 138   | 0.00     |
| 84 c | Di-n-octyl phthalate       | 1.112 | 1.128  | -1.4  | 140   | 0.00     |
| 85   | Indeno(1,2,3-cd)pyrene     | 1.397 | 1.277  | 8.6   | 124   | 0.00     |
| 86 I | Perylene-d12               | 1.000 | 1.000  | 0.0   | 134   | 0.00     |
| 87   | Benzo(b)fluoranthene       | 1.210 | 1.221  | -0.9  | 135   | 0.00     |

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|------|------------------------|-------|-------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 1.199 | 1.207 | -0.7 | 135   | 0.00     |
| 89 C | Benzo(a)pyrene         | 1.149 | 1.156 | -0.6 | 135   | 0.00     |
| 90   | Dibenzo(a,h)anthracene | 1.175 | 1.086 | 7.6  | 124   | 0.00     |
| 91   | Benzo(a,h,i)perylene   | 1.140 | 1.051 | 7.8  | 124   | 0.00     |

(#) = Out of Range

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