

Data Path : Z:\svoasrv\HPCHEM1\BNA G\Data\BG091018\  
 Data File : BG036655.D  
 Acq On : 11 Sep 2018 10:34  
 Operator : JU/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTDCCC040

Quant Time: Sep 11 14:19:17 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG082318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Aug 31 13:03:20 2018  
 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   | 151#  | 0.00     |
| 2    | 1,4-Dioxane                 | 0.588 | 0.499 | 15.1  | 134   | 0.00     |
| 3    | Pyridine                    | 1.652 | 1.488 | 9.9   | 134   | 0.00     |
| 4    | n-Nitrosodimethylamine      | 0.736 | 0.662 | 10.1  | 136   | 0.00     |
| 5 S  | 2-Fluorophenol              | 1.261 | 1.198 | 5.0   | 143   | 0.00     |
| 6    | Aniline                     | 2.291 | 2.110 | 7.9   | 140   | 0.00     |
| 7 S  | Phenol-d6                   | 1.805 | 1.735 | 3.9   | 145   | 0.00     |
| 8    | 2-Chlorophenol              | 1.367 | 1.288 | 5.8   | 142   | 0.00     |
| 9    | Benzaldehyde                | 1.243 | 1.105 | 11.1  | 144   | 0.00     |
| 10 C | Phenol                      | 1.889 | 1.787 | 5.4   | 143   | 0.00     |
| 11   | bis(2-Chloroethyl)ether     | 1.498 | 1.377 | 8.1   | 141   | 0.00     |
| 12   | 1,3-Dichlorobenzene         | 1.561 | 1.458 | 6.6   | 144   | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 1.576 | 1.497 | 5.0   | 146   | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 1.505 | 1.414 | 6.0   | 145   | 0.00     |
| 15   | Benzyl Alcohol              | 1.455 | 1.347 | 7.4   | 138   | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 3.020 | 2.606 | 13.7  | 133   | -0.01    |
| 17   | 2-Methylphenol              | 1.254 | 1.177 | 6.1   | 144   | 0.00     |
| 18   | Hexachloroethane            | 0.565 | 0.538 | 4.8   | 143   | -0.01    |
| 19 P | n-Nitroso-di-n-propylamine  | 1.349 | 1.197 | 11.3  | 136   | 0.00     |
| 20   | 3+4-Methylphenols           | 1.751 | 1.707 | 2.5   | 148   | 0.00     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0   | 154#  | 0.00     |
| 22   | Acetophenone                | 0.525 | 0.477 | 9.1   | 140   | 0.00     |
| 23 S | Nitrobenzene-d5             | 0.369 | 0.383 | -3.8  | 156#  | 0.00     |
| 24   | Nitrobenzene                | 0.397 | 0.394 | 0.8   | 148   | 0.00     |
| 25   | Isophorone                  | 0.732 | 0.652 | 10.9  | 136   | 0.00     |
| 26 C | 2-Nitrophenol               | 0.158 | 0.177 | -12.0 | 172#  | 0.00     |
| 27   | 2,4-Dimethylphenol          | 0.292 | 0.265 | 9.2   | 140   | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 0.449 | 0.402 | 10.5  | 137   | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 0.320 | 0.331 | -3.4  | 156#  | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 0.374 | 0.366 | 2.1   | 153#  | 0.00     |
| 31   | Naphthalene                 | 1.000 | 0.929 | 7.1   | 143   | 0.00     |
| 32   | Benzoic acid                | 0.202 | 0.152 | 24.8  | 113   | 0.00     |
| 33   | 4-Chloroaniline             | 0.458 | 0.431 | 5.9   | 143   | 0.00     |
| 34 C | Hexachlorobutadiene         | 0.251 | 0.257 | -2.4  | 155#  | 0.00     |
| 35   | Caprolactam                 | 0.127 | 0.124 | 2.4   | 144   | 0.01     |
| 36 C | 4-Chloro-3-methylphenol     | 0.371 | 0.362 | 2.4   | 146   | 0.00     |
| 37   | 2-Methylnaphthalene         | 0.732 | 0.706 | 3.6   | 147   | 0.00     |
| 38 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0   | 158#  | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 0.708 | 0.689 | 2.7   | 154#  | 0.00     |
| 40 P | Hexachlorocyclopentadiene   | 0.368 | 0.349 | 5.2   | 147   | 0.00     |
| 41 S | 2,4,6-Tribromophenol        | 0.239 | 0.271 | -13.4 | 169#  | 0.00     |
| 42 C | 2,4,6-Trichlorophenol       | 0.431 | 0.433 | -0.5  | 156#  | 0.00     |
| 43   | 2,4,5-Trichlorophenol       | 0.460 | 0.459 | 0.2   | 153#  | 0.00     |
| 44 S | 2-Fluorobiphenyl            | 1.401 | 1.312 | 6.4   | 150#  | 0.00     |

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 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                   | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|----------------------------|-------|-------|-------|-------|----------|
| 45   | 1,1'-Biphenyl              | 1.660 | 1.527 | 8.0   | 149   | 0.00     |
| 46   | 2-Chloronaphthalene        | 1.267 | 1.186 | 6.4   | 149   | 0.00     |
| 47   | 2-Nitroaniline             | 0.398 | 0.419 | -5.3  | 157#  | 0.00     |
| 48   | Acenaphthylene             | 1.981 | 1.842 | 7.0   | 147   | 0.00     |
| 49   | Dimethylphthalate          | 1.633 | 1.557 | 4.7   | 150#  | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 0.336 | 0.354 | -5.4  | 163#  | 0.00     |
| 51 C | Acenaphthene               | 1.269 | 1.142 | 10.0  | 142   | 0.00     |
| 52   | 3-Nitroaniline             | 0.362 | 0.384 | -6.1  | 155#  | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 0.127 | 0.072 | 43.3# | 87    | 0.00     |
| 54   | Dibenzofuran               | 1.987 | 1.851 | 6.8   | 149   | 0.00     |
| 55 P | 4-Nitrophenol              | 0.296 | 0.256 | 13.5  | 129   | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 0.438 | 0.511 | -16.7 | 179#  | 0.00     |
| 57   | Fluorene                   | 1.486 | 1.382 | 7.0   | 146   | 0.00     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 0.432 | 0.460 | -6.5  | 163#  | 0.00     |
| 59   | Diethylphthalate           | 1.646 | 1.588 | 3.5   | 151#  | 0.00     |
| 60   | 4-Chlorophenyl-phenylether | 0.917 | 0.897 | 2.2   | 157#  | 0.00     |
| 61   | 4-Nitroaniline             | 0.379 | 0.398 | -5.0  | 155#  | 0.00     |
| 62   | Azobenzene                 | 1.675 | 1.501 | 10.4  | 142   | 0.00     |
| 63 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 164#  | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 0.088 | 0.082 | 6.8   | 154#  | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 0.594 | 0.538 | 9.4   | 153#  | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 0.234 | 0.228 | 2.6   | 162#  | 0.00     |
| 67   | Hexachlorobenzene          | 0.239 | 0.237 | 0.8   | 164#  | 0.00     |
| 68   | Atrazine                   | 0.223 | 0.180 | 19.3  | 137   | 0.00     |
| 69 C | Pentachlorophenol          | 0.163 | 0.186 | -14.1 | 176#  | 0.00     |
| 70   | Phenanthrene               | 1.016 | 0.925 | 9.0   | 152#  | 0.00     |
| 71   | Anthracene                 | 1.013 | 0.925 | 8.7   | 151#  | 0.00     |
| 72   | Carbazole                  | 1.012 | 0.921 | 9.0   | 149   | 0.00     |
| 73   | Di-n-butylphthalate        | 1.127 | 1.000 | 11.3  | 143   | 0.00     |
| 74 C | Fluoranthene               | 1.239 | 1.136 | 8.3   | 150   | 0.00     |
| 75 I | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 166#  | 0.00     |
| 76   | Benzidine                  | 0.638 | 0.492 | 22.9  | 137   | 0.00     |
| 77   | Pyrene                     | 1.230 | 1.106 | 10.1  | 148   | 0.00     |
| 78 S | Terphenyl-d14              | 0.856 | 0.764 | 10.7  | 150#  | 0.00     |
| 79   | Butylbenzylphthalate       | 0.489 | 0.458 | 6.3   | 150#  | 0.00     |
| 80   | Benzo(a)anthracene         | 1.212 | 1.101 | 9.2   | 154#  | 0.00     |
| 81   | 3,3'-Dichlorobenzidine     | 0.483 | 0.429 | 11.2  | 144   | 0.00     |
| 82   | Chrysene                   | 1.148 | 1.053 | 8.3   | 153#  | 0.00     |
| 83   | Bis(2-ethylhexyl)phthalate | 0.685 | 0.618 | 9.8   | 147   | -0.01    |
| 84 c | Di-n-octyl phthalate       | 1.144 | 1.037 | 9.4   | 145   | -0.01    |
| 85   | Indeno(1,2,3-cd)pyrene     | 1.334 | 1.085 | 18.7  | 135   | 0.00     |
| 86 I | Perylene-d12               | 1.000 | 1.000 | 0.0   | 167#  | 0.00     |
| 87   | Benzo(b)fluoranthene       | 1.111 | 1.026 | 7.7   | 152#  | 0.00     |

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|      | Compound               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 1.085 | 1.026 | 5.4  | 158#  | 0.00     |
| 89 C | Benzo(a)pyrene         | 1.067 | 1.000 | 6.3  | 155#  | -0.01    |
| 90   | Dibenzo(a,h)anthracene | 1.030 | 0.783 | 24.0 | 126   | -0.02    |
| 91   | Benzo(a,h,i)perylene   | 1.035 | 0.884 | 14.6 | 142   | -0.01    |

(#) = Out of Range

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