

Data File : BG035278.D  
 Acq On : 21 Jun 2018 00:07  
 Operator : SJ/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTDCCC040

Quant Time: Jun 21 05:53:53 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG060718.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 08 17:16:28 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                     | Amount | Calc.  | %Dev   | Area% | Dev(min) |
|------|------------------------------|--------|--------|--------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4       | 20.000 | 20.000 | 0.0    | 192   | -0.02    |
| 2    | 1,4-Dioxane                  | 40.000 | 38.964 | 2.6    | 188   | 0.00     |
| 3    | Pyridine                     | 40.000 | 39.681 | 0.8    | 179   | 0.00     |
| 4    | n-Nitrosodimethylamine       | 40.000 | 33.094 | 17.3   | 150   | 0.00     |
| 5 S  | 2-Fluorophenol               | 80.000 | 78.760 | 1.5    | 185   | 0.00     |
| 6    | Aniline                      | 40.000 | 37.469 | 6.3    | 177   | -0.02    |
| 7 S  | Phenol-d6                    | 80.000 | 77.819 | 2.7    | 181   | 0.00     |
| 8    | 2-Chlorophenol               | 40.000 | 38.101 | 4.7    | 178   | -0.02    |
| 9    | Benzaldehyde                 | 40.000 | 32.052 | 19.9   | 146   | -0.02    |
| 10 C | Phenol                       | 40.000 | 37.597 | 6.0    | 177   | -0.02    |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 37.360 | 6.6    | 177   | -0.02    |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 38.373 | 4.1    | 187   | -0.02    |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 38.255 | 4.4    | 182   | -0.02    |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 37.935 | 5.2    | 179   | -0.02    |
| 15   | Benzyl Alcohol               | 40.000 | 35.374 | 11.6   | 166   | -0.02    |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 34.664 | 13.3   | 166   | -0.02    |
| 17   | 2-Methylphenol               | 40.000 | 39.271 | 1.8    | 180   | 0.00     |
| 18   | Hexachloroethane             | 40.000 | 37.012 | 7.5    | 171   | -0.02    |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 35.405 | 11.5   | 166   | -0.02    |
| 20   | 3+4-Methylphenols            | 40.000 | 38.167 | 4.6    | 179   | 0.00     |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0    | 198   | -0.02    |
| 22   | Acetophenone                 | 40.000 | 36.277 | 9.3    | 178   | -0.02    |
| 23 S | Nitrobenzene-d5              | 80.000 | 80.977 | -1.2   | 190   | -0.02    |
| 24   | Nitrobenzene                 | 40.000 | 38.516 | 3.7    | 182   | -0.02    |
| 25   | Isophorone                   | 40.000 | 34.397 | 14.0   | 168   | -0.02    |
| 26 C | 2-Nitrophenol                | 40.000 | 48.187 | -20.5# | 236   | -0.02    |
| 27   | 2,4-Dimethylphenol           | 40.000 | 35.716 | 10.7   | 177   | -0.02    |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 36.788 | 8.0    | 180   | -0.02    |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 39.195 | 2.0    | 189   | -0.02    |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 38.396 | 4.0    | 183   | -0.02    |
| 31   | Naphthalene                  | 40.000 | 36.902 | 7.7    | 181   | -0.02    |
| 32   | Benzoic acid                 | 40.000 | 41.522 | -3.8   | 203   | 0.00     |
| 33   | 4-Chloroaniline              | 40.000 | 37.153 | 7.1    | 179   | -0.02    |
| 34 C | Hexachlorobutadiene          | 40.000 | 38.234 | 4.4    | 187   | -0.02    |
| 35   | Caprolactam                  | 40.000 | 37.007 | 7.5    | 183   | 0.00     |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 38.356 | 4.1    | 186   | 0.00     |
| 37   | 2-Methylnaphthalene          | 40.000 | 37.505 | 6.2    | 181   | -0.02    |
| 38 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0    | 198   | -0.02    |
| 39   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 40.429 | -1.1   | 194   | -0.02    |
| 40 P | Hexachlorocyclopentadiene    | 40.000 | 39.497 | 1.3    | 185   | -0.03    |
| 41 S | 2,4,6-Tribromophenol         | 80.000 | 82.892 | -3.6   | 201   | -0.02    |
| 42 C | 2,4,6-Trichlorophenol        | 40.000 | 41.459 | -3.6   | 196   | -0.02    |
| 43   | 2,4,5-Trichlorophenol        | 40.000 | 41.334 | -3.3   | 203   | -0.02    |
| 44 S | 2-Fluorobiphenyl             | 80.000 | 73.725 | 7.8    | 181   | -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                   | Amount | Calc.  | %Dev   | Area% | Dev(min) |
|------|----------------------------|--------|--------|--------|-------|----------|
| 45   | 1,1'-Biphenyl              | 40.000 | 37.613 | 6.0    | 183   | -0.02    |
| 46   | 2-Chloronaphthalene        | 40.000 | 38.529 | 3.7    | 191   | -0.02    |
| 47   | 2-Nitroaniline             | 40.000 | 41.894 | -4.7   | 204   | -0.02    |
| 48   | Acenaphthylene             | 40.000 | 37.313 | 6.7    | 182   | -0.02    |
| 49   | Dimethylphthalate          | 40.000 | 36.328 | 9.2    | 179   | -0.02    |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 43.317 | -8.3   | 206   | -0.02    |
| 51 C | Acenaphthene               | 40.000 | 38.604 | 3.5    | 187   | -0.02    |
| 52   | 3-Nitroaniline             | 40.000 | 44.064 | -10.2  | 203   | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 53.900 | -34.8# | 256   | -0.02    |
| 54   | Dibenzofuran               | 40.000 | 36.948 | 7.6    | 179   | -0.02    |
| 55 P | 4-Nitrophenol              | 40.000 | 38.836 | 2.9    | 179   | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 45.028 | -12.6  | 214   | -0.02    |
| 57   | Fluorene                   | 40.000 | 36.397 | 9.0    | 176   | -0.02    |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 41.344 | -3.4   | 199   | -0.02    |
| 59   | Diethylphthalate           | 40.000 | 35.194 | 12.0   | 174   | -0.03    |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 38.298 | 4.3    | 189   | -0.03    |
| 61   | 4-Nitroaniline             | 40.000 | 41.343 | -3.4   | 192   | -0.02    |
| 62   | Azobenzene                 | 40.000 | 33.498 | 16.3   | 165   | -0.02    |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0    | 197   | -0.02    |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 51.575 | -28.9# | 250   | -0.02    |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 37.038 | 7.4    | 176   | -0.02    |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 39.498 | 1.3    | 193   | -0.02    |
| 67   | Hexachlorobenzene          | 40.000 | 39.739 | 0.7    | 195   | -0.02    |
| 68   | Atrazine                   | 40.000 | 33.435 | 16.4   | 160   | -0.03    |
| 69 C | Pentachlorophenol          | 40.000 | 40.807 | -2.0   | 193   | -0.02    |
| 70   | Phenanthrene               | 40.000 | 36.835 | 7.9    | 177   | -0.02    |
| 71   | Anthracene                 | 40.000 | 36.925 | 7.7    | 176   | -0.02    |
| 72   | Carbazole                  | 40.000 | 35.915 | 10.2   | 172   | -0.02    |
| 73   | Di-n-butylphthalate        | 40.000 | 34.888 | 12.8   | 167   | -0.03    |
| 74 C | Fluoranthene               | 40.000 | 36.341 | 9.1    | 174   | -0.02    |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0    | 197   | -0.02    |
| 76   | Benzidine                  | 40.000 | 19.274 | 51.8#  | 93    | -0.02    |
| 77   | Pyrene                     | 40.000 | 35.358 | 11.6   | 173   | -0.02    |
| 78 S | Terphenyl-d14              | 80.000 | 70.529 | 11.8   | 171   | -0.02    |
| 79   | Butylbenzylphthalate       | 40.000 | 35.861 | 10.3   | 169   | -0.03    |
| 80   | Benzo(a)anthracene         | 40.000 | 36.356 | 9.1    | 178   | -0.02    |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 36.283 | 9.3    | 172   | -0.03    |
| 82   | Chrysene                   | 40.000 | 36.910 | 7.7    | 181   | -0.03    |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 34.912 | 12.7   | 167   | -0.04    |
| 84 c | Di-n-octyl phthalate       | 40.000 | 34.823 | 12.9   | 166   | -0.06    |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 37.627 | 5.9    | 182   | -0.07    |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0    | 195   | -0.04    |
| 87   | Benzo(b)fluoranthene       | 40.000 | 36.460 | 8.8    | 173   | -0.03    |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG062018\  
Evaluate Continuing Calibration Report

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

|      | Compound               | Amount | Calc.  | %Dev | Area | % Dev(min) |
|------|------------------------|--------|--------|------|------|------------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 37.453 | 6.4  | 186  | -0.03      |
| 89 C | Benzo(a)pyrene         | 40.000 | 37.117 | 7.2  | 179  | -0.04      |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 37.216 | 7.0  | 181  | -0.07      |
| 91   | Benzo(g,h,i)perylene   | 40.000 | 37.449 | 6.4  | 181  | -0.07      |

(#) = Out of Range

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