

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG011619\  
 Data File : BG039171.D  
 Acq On : 17 Jan 2019 00:09  
 Operator : JU/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTDCCC040

Quant Time: Jan 17 10:21:50 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG010919.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jan 09 14:23:53 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                     | Amount | Calc.   | %Dev   | Area% | Dev(min) |
|------|------------------------------|--------|---------|--------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4       | 20.000 | 20.000  | 0.0    | 122   | -0.01    |
| 2    | 1,4-Dioxane                  | 40.000 | 34.050  | 14.9   | 105   | -0.01    |
| 3    | Pyridine                     | 40.000 | 48.250  | -20.6  | 143   | 0.00     |
| 4    | n-Nitrosodimethylamine       | 40.000 | 49.679  | -24.2  | 145   | -0.01    |
| 5 S  | 2-Fluorophenol               | 80.000 | 93.583  | -17.0  | 137   | -0.01    |
| 6    | Aniline                      | 40.000 | 48.725  | -21.8  | 142   | 0.00     |
| 7 S  | Phenol-d6                    | 80.000 | 100.795 | -26.0# | 149   | -0.01    |
| 8    | 2-Chlorophenol               | 40.000 | 43.080  | -7.7   | 126   | 0.00     |
| 9    | Benzaldehyde                 | 40.000 | 46.420  | -16.1  | 149   | -0.01    |
| 10 C | Phenol                       | 40.000 | 51.048  | -27.6# | 150   | 0.00     |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 45.102  | -12.8  | 133   | 0.00     |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 39.608  | 1.0    | 120   | 0.00     |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 39.694  | 0.8    | 119   | -0.01    |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 41.031  | -2.6   | 123   | -0.01    |
| 15   | Benzyl Alcohol               | 40.000 | 44.133  | -10.3  | 127   | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 42.426  | -6.1   | 128   | -0.01    |
| 17   | 2-Methylphenol               | 40.000 | 43.317  | -8.3   | 126   | 0.00     |
| 18   | Hexachloroethane             | 40.000 | 41.956  | -4.9   | 126   | -0.01    |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 43.805  | -9.5   | 133   | 0.00     |
| 20   | 3+4-Methylphenols            | 40.000 | 44.811  | -12.0  | 131   | 0.00     |
| 21 I | Naphthalene-d8               | 20.000 | 20.000  | 0.0    | 146   | -0.01    |
| 22   | Acetophenone                 | 40.000 | 36.344  | 9.1    | 132   | 0.00     |
| 23 S | Nitrobenzene-d5              | 80.000 | 78.572  | 1.8    | 143   | 0.00     |
| 24   | Nitrobenzene                 | 40.000 | 37.272  | 6.8    | 137   | -0.01    |
| 25   | Isophorone                   | 40.000 | 42.001  | -5.0   | 153   | 0.00     |
| 26 C | 2-Nitrophenol                | 40.000 | 41.794  | -4.5   | 150   | 0.00     |
| 27   | 2,4-Dimethylphenol           | 40.000 | 40.568  | -1.4   | 145   | 0.00     |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 38.493  | 3.8    | 139   | -0.01    |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 42.755  | -6.9   | 151   | 0.00     |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 39.496  | 1.3    | 145   | -0.01    |
| 31   | Naphthalene                  | 40.000 | 37.930  | 5.2    | 141   | -0.01    |
| 32   | Benzoic acid                 | 40.000 | 30.724  | 23.2   | 115   | 0.00     |
| 33   | 4-Chloroaniline              | 40.000 | 37.912  | 5.2    | 135   | -0.01    |
| 34 C | Hexachlorobutadiene          | 40.000 | 36.699  | 8.3    | 133   | -0.01    |
| 35   | Caprolactam                  | 40.000 | 34.211  | 14.5   | 125   | 0.00     |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 37.225  | 6.9    | 135   | -0.01    |
| 37   | 2-Methylnaphthalene          | 40.000 | 34.691  | 13.3   | 128   | -0.01    |
| 38   | 1-Methylnaphthalene          | 40.000 | 35.473  | 11.3   | 130   | -0.01    |
| 39 I | Acenaphthene-d10             | 20.000 | 20.000  | 0.0    | 135   | 0.00     |
| 40   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 39.173  | 2.1    | 131   | -0.01    |
| 41 P | Hexachlorocyclopentadiene    | 40.000 | 33.895  | 15.3   | 114   | -0.01    |
| 42 S | 2,4,6-Tribromophenol         | 80.000 | 80.434  | -0.5   | 134   | -0.01    |
| 43 C | 2,4,6-Trichlorophenol        | 40.000 | 39.230  | 1.9    | 129   | 0.00     |
| 44   | 2,4,5-Trichlorophenol        | 40.000 | 39.554  | 1.1    | 128   | 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                   | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|----------------------------|--------|--------|-------|-------|----------|
| 45 S | 2-Fluorobiphenyl           | 80.000 | 76.696 | 4.1   | 130   | -0.01    |
| 46   | 1,1'-Biphenyl              | 40.000 | 38.829 | 2.9   | 131   | -0.01    |
| 47   | 2-Chloronaphthalene        | 40.000 | 39.110 | 2.2   | 132   | -0.01    |
| 48   | 2-Nitroaniline             | 40.000 | 38.687 | 3.3   | 125   | 0.00     |
| 49   | Acenaphthylene             | 40.000 | 37.818 | 5.5   | 128   | -0.01    |
| 50   | Dimethylphthalate          | 40.000 | 36.460 | 8.8   | 125   | -0.01    |
| 51   | 2,6-Dinitrotoluene         | 40.000 | 36.163 | 9.6   | 121   | -0.01    |
| 52 C | Acenaphthene               | 40.000 | 40.377 | -0.9  | 138   | 0.00     |
| 53   | 3-Nitroaniline             | 40.000 | 36.482 | 8.8   | 122   | 0.00     |
| 54 P | 2,4-Dinitrophenol          | 40.000 | 28.064 | 29.8# | 89    | 0.00     |
| 55   | Dibenzofuran               | 40.000 | 46.978 | -17.4 | 161   | -0.01    |
| 56 P | 4-Nitrophenol              | 40.000 | 37.901 | 5.2   | 123   | 0.00     |
| 57   | 2,4-Dinitrotoluene         | 40.000 | 39.010 | 2.5   | 133   | 0.00     |
| 58   | Fluorene                   | 40.000 | 37.610 | 6.0   | 128   | -0.01    |
| 59   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 40.668 | -1.7  | 137   | -0.01    |
| 60   | Diethylphthalate           | 40.000 | 37.335 | 6.7   | 128   | 0.00     |
| 61   | 4-Chlorophenyl-phenylether | 40.000 | 38.128 | 4.7   | 128   | -0.01    |
| 62   | 4-Nitroaniline             | 40.000 | 37.444 | 6.4   | 122   | 0.00     |
| 63   | Azobenzene                 | 40.000 | 40.511 | -1.3  | 140   | -0.01    |
| 64 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0   | 133   | -0.01    |
| 65   | 4,6-Dinitro-2-methylphenol | 40.000 | 32.751 | 18.1  | 106   | 0.00     |
| 66 c | n-Nitrosodiphenylamine     | 40.000 | 41.160 | -2.9  | 135   | -0.01    |
| 67   | 4-Bromophenyl-phenylether  | 40.000 | 44.643 | -11.6 | 147   | -0.01    |
| 68   | Hexachlorobenzene          | 40.000 | 41.453 | -3.6  | 138   | 0.00     |
| 69   | Atrazine                   | 40.000 | 38.872 | 2.8   | 126   | -0.01    |
| 70 C | Pentachlorophenol          | 40.000 | 37.600 | 6.0   | 125   | -0.01    |
| 71   | Phenanthrene               | 40.000 | 38.742 | 3.1   | 128   | -0.01    |
| 72   | Anthracene                 | 40.000 | 43.060 | -7.7  | 143   | -0.01    |
| 73   | Carbazole                  | 40.000 | 38.648 | 3.4   | 129   | -0.01    |
| 74   | Di-n-butylphthalate        | 40.000 | 40.392 | -1.0  | 134   | -0.01    |
| 75 C | Fluoranthene               | 40.000 | 38.645 | 3.4   | 129   | -0.02    |
| 76 I | Chrysene-d12               | 20.000 | 20.000 | 0.0   | 125   | -0.02    |
| 77   | Benzidine                  | 40.000 | 38.102 | 4.7   | 109   | -0.01    |
| 78   | Pyrene                     | 40.000 | 39.085 | 2.3   | 121   | -0.01    |
| 79 S | Terphenyl-d14              | 80.000 | 76.953 | 3.8   | 122   | -0.01    |
| 80   | Butylbenzylphthalate       | 40.000 | 39.214 | 2.0   | 121   | -0.01    |
| 81   | Benzo(a)anthracene         | 40.000 | 39.062 | 2.3   | 121   | -0.01    |
| 82   | 3,3'-Dichlorobenzidine     | 40.000 | 39.072 | 2.3   | 120   | -0.02    |
| 83   | Chrysene                   | 40.000 | 39.749 | 0.6   | 123   | -0.02    |
| 84   | Bis(2-ethylhexyl)phthalate | 40.000 | 38.908 | 2.7   | 120   | -0.02    |
| 85 c | Di-n-octyl phthalate       | 40.000 | 38.133 | 4.7   | 117   | -0.03    |
| 86   | Indeno(1,2,3-cd)pyrene     | 40.000 | 41.305 | -3.3  | 125   | -0.06    |
| 87 I | Perylene-d12               | 20.000 | 20.000 | 0.0   | 120   | -0.03    |

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|      | Compound               | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(b)fluoranthene   | 40.000 | 41.334 | -3.3 | 125   | -0.03    |
| 89   | Benzo(k)fluoranthene   | 40.000 | 40.380 | -1.0 | 118   | -0.03    |
| 90 C | Benzo(a)pyrene         | 40.000 | 40.440 | -1.1 | 120   | -0.03    |
| 91   | Dibenzo(a,h)anthracene | 40.000 | 42.115 | -5.3 | 125   | -0.06    |
| 92   | Benzo(q,h,i)perylene   | 40.000 | 41.428 | -3.6 | 124   | -0.05    |

(#) = Out of Range

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