

Data Path : Z:\HPCHEM1\BNA G\Data\BG093017\  
 Data File : BG028983.D  
 Acq On : 30 Sep 2017 17:27  
 Operator : SJ/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTDCCC040

Quant Time: Oct 01 02:45:41 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG091217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 12 16:57:11 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                     | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|------------------------------|--------|--------|-------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4       | 20.000 | 20.000 | 0.0   | 129   | -0.08    |
| 2    | 1,4-Dioxane                  | 40.000 | 39.587 | 1.0   | 131   | -0.10    |
| 3    | Pyridine                     | 40.000 | 40.347 | -0.9  | 125   | -0.09    |
| 4    | n-Nitrosodimethylamine       | 40.000 | 41.908 | -4.8  | 131   | -0.09    |
| 5 S  | 2-Fluorophenol               | 80.000 | 82.534 | -3.2  | 127   | -0.08    |
| 6    | Aniline                      | 40.000 | 39.606 | 1.0   | 121   | -0.07    |
| 7 S  | Phenol-d6                    | 80.000 | 78.419 | 2.0   | 123   | -0.08    |
| 8    | 2-Chlorophenol               | 40.000 | 41.469 | -3.7  | 129   | -0.08    |
| 9    | Benzaldehyde                 | 40.000 | 37.588 | 6.0   | 119   | -0.08    |
| 10 C | Phenol                       | 40.000 | 40.273 | -0.7  | 125   | -0.07    |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 39.094 | 2.3   | 125   | -0.08    |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 41.035 | -2.6  | 131   | -0.08    |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 41.527 | -3.8  | 128   | -0.08    |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 40.643 | -1.6  | 130   | -0.08    |
| 15   | Benzyl Alcohol               | 40.000 | 37.516 | 6.2   | 116   | -0.07    |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 39.184 | 2.0   | 124   | -0.07    |
| 17   | 2-Methylphenol               | 40.000 | 38.548 | 3.6   | 122   | -0.08    |
| 18   | Hexachloroethane             | 40.000 | 41.354 | -3.4  | 128   | -0.08    |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 37.972 | 5.1   | 119   | -0.07    |
| 20   | 3+4-Methylphenols            | 40.000 | 39.793 | 0.5   | 124   | -0.07    |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0   | 115   | -0.07    |
| 22   | Acetophenone                 | 40.000 | 41.400 | -3.5  | 121   | -0.07    |
| 23 S | Nitrobenzene-d5              | 80.000 | 83.419 | -4.3  | 123   | -0.08    |
| 24   | Nitrobenzene                 | 40.000 | 41.017 | -2.5  | 122   | -0.08    |
| 25   | Isophorone                   | 40.000 | 39.333 | 1.7   | 116   | -0.08    |
| 26 C | 2-Nitrophenol                | 40.000 | 41.115 | -2.8  | 121   | -0.08    |
| 27   | 2,4-Dimethylphenol           | 40.000 | 40.680 | -1.7  | 118   | -0.07    |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 40.377 | -0.9  | 118   | -0.07    |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 42.368 | -5.9  | 124   | -0.07    |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 41.556 | -3.9  | 123   | -0.07    |
| 31   | Naphthalene                  | 40.000 | 41.728 | -4.3  | 123   | -0.08    |
| 32   | Benzoic acid                 | 40.000 | 12.802 | 68.0# | 24    | -0.12    |
| 33   | 4-Chloroaniline              | 40.000 | 39.524 | 1.2   | 116   | -0.07    |
| 34 C | Hexachlorobutadiene          | 40.000 | 41.297 | -3.2  | 124   | -0.08    |
| 35   | Caprolactam                  | 40.000 | 36.785 | 8.0   | 107   | -0.08    |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 37.379 | 6.6   | 112   | -0.06    |
| 37   | 2-Methylnaphthalene          | 40.000 | 40.197 | -0.5  | 119   | -0.06    |
| 38 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0   | 115   | -0.06    |
| 39   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 43.071 | -7.7  | 120   | -0.06    |
| 40 P | Hexachlorocyclopentadiene    | 40.000 | 41.787 | -4.5  | 122   | -0.06    |
| 41 S | 2,4,6-Tribromophenol         | 80.000 | 85.270 | -6.6  | 122   | -0.06    |
| 42 C | 2,4,6-Trichlorophenol        | 40.000 | 40.946 | -2.4  | 117   | -0.07    |
| 43   | 2,4,5-Trichlorophenol        | 40.000 | 40.934 | -2.3  | 116   | -0.07    |
| 44 S | 2-Fluorobiphenyl             | 80.000 | 84.691 | -5.9  | 118   | -0.06    |

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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 | 41.831 | -4.6  | 117   | -0.06    |
| 46   | 2-Chloronaphthalene        | 40.000 | 41.816 | -4.5  | 117   | -0.06    |
| 47   | 2-Nitroaniline             | 40.000 | 41.907 | -4.8  | 116   | -0.06    |
| 48   | Acenaphthylene             | 40.000 | 40.767 | -1.9  | 115   | -0.06    |
| 49   | Dimethylphthalate          | 40.000 | 40.770 | -1.9  | 116   | -0.06    |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 41.630 | -4.1  | 116   | -0.06    |
| 51 C | Acenaphthene               | 40.000 | 40.525 | -1.3  | 115   | -0.06    |
| 52   | 3-Nitroaniline             | 40.000 | 41.385 | -3.5  | 116   | -0.06    |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 20.246 | 49.4# | 45    | -0.06    |
| 54   | Dibenzofuran               | 40.000 | 40.627 | -1.6  | 115   | -0.06    |
| 55 P | 4-Nitrophenol              | 40.000 | 42.230 | -5.6  | 113   | -0.06    |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 40.455 | -1.1  | 111   | -0.05    |
| 57   | Fluorene                   | 40.000 | 40.405 | -1.0  | 114   | -0.06    |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 43.779 | -9.4  | 124   | -0.06    |
| 59   | Diethylphthalate           | 40.000 | 40.280 | -0.7  | 117   | -0.05    |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 40.141 | -0.4  | 116   | -0.06    |
| 61   | 4-Nitroaniline             | 40.000 | 41.887 | -4.7  | 113   | -0.06    |
| 62   | Azobenzene                 | 40.000 | 40.176 | -0.4  | 115   | -0.06    |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0   | 112   | -0.06    |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 31.112 | 22.2  | 84    | -0.06    |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 41.041 | -2.6  | 116   | -0.06    |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 41.606 | -4.0  | 117   | -0.06    |
| 67   | Hexachlorobenzene          | 40.000 | 40.454 | -1.1  | 115   | -0.06    |
| 68   | Atrazine                   | 40.000 | 41.940 | -4.8  | 115   | -0.06    |
| 69 C | Pentachlorophenol          | 40.000 | 32.861 | 17.8  | 89    | -0.06    |
| 70   | Phenanthrene               | 40.000 | 41.637 | -4.1  | 117   | -0.06    |
| 71   | Anthracene                 | 40.000 | 41.417 | -3.5  | 115   | -0.06    |
| 72   | Carbazole                  | 40.000 | 42.927 | -7.3  | 117   | -0.06    |
| 73   | Di-n-butylphthalate        | 40.000 | 42.738 | -6.8  | 118   | -0.06    |
| 74 C | Fluoranthene               | 40.000 | 43.122 | -7.8  | 117   | -0.06    |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0   | 119   | -0.08    |
| 76   | Benzidine                  | 40.000 | 44.598 | -11.5 | 126   | -0.06    |
| 77   | Pyrene                     | 40.000 | 38.612 | 3.5   | 117   | -0.06    |
| 78 S | Terphenyl-d14              | 80.000 | 79.323 | 0.8   | 118   | -0.06    |
| 79   | Butylbenzylphthalate       | 40.000 | 39.894 | 0.3   | 120   | -0.06    |
| 80   | Benzo(a)anthracene         | 40.000 | 40.689 | -1.7  | 121   | -0.08    |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 40.435 | -1.1  | 118   | -0.08    |
| 82   | Chrysene                   | 40.000 | 40.777 | -1.9  | 121   | -0.08    |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 40.492 | -1.2  | 119   | -0.08    |
| 84 c | Di-n-octyl phthalate       | 40.000 | 41.039 | -2.6  | 120   | -0.10    |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 41.598 | -4.0  | 124   | -0.23    |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0   | 119   | -0.15    |
| 87   | Benzo(b)fluoranthene       | 40.000 | 41.164 | -2.9  | 123   | -0.13    |

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|      | Compound               | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 40.814 | -2.0 | 121   | -0.13    |
| 89 C | Benzo(a)pyrene         | 40.000 | 41.522 | -3.8 | 123   | -0.15    |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 41.763 | -4.4 | 123   | -0.24    |
| 91   | Benzo(a,h,i)perylene   | 40.000 | 41.510 | -3.8 | 123   | -0.26    |

(#) = Out of Range

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