

Data Path : Z:\HPCHEM1\BNA G\DATA\BG062816\  
 Data File : BG022669.D  
 Acq On : 28 Jun 2016 10:09  
 Operator : UM/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTDCCC040

Quant Time: Jun 28 15:06:01 2016  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG062516.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 24 20:14:59 2016  
 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   | 102   | -0.01    |
| 2    | 1,4-Dioxane                  | 40.000 | 39.958 | 0.1   | 100   | -0.01    |
| 3    | Pyridine                     | 40.000 | 46.642 | -16.6 | 116   | -0.02    |
| 4    | n-Nitrosodimethylamine       | 40.000 | 35.292 | 11.8  | 87    | -0.02    |
| 5 S  | 2-Fluorophenol               | 80.000 | 78.252 | 2.2   | 100   | 0.00     |
| 6    | Aniline                      | 40.000 | 44.307 | -10.8 | 111   | 0.00     |
| 7 S  | Phenol-d6                    | 80.000 | 85.372 | -6.7  | 109   | 0.00     |
| 8    | 2-Chlorophenol               | 40.000 | 40.936 | -2.3  | 107   | 0.00     |
| 9    | Benzaldehyde                 | 40.000 | 48.292 | -20.7 | 121   | 0.00     |
| 10 C | Phenol                       | 40.000 | 42.848 | -7.1  | 108   | 0.00     |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 38.843 | 2.9   | 94    | 0.00     |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 39.439 | 1.4   | 100   | 0.00     |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 40.174 | -0.4  | 104   | -0.01    |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 39.379 | 1.6   | 103   | 0.00     |
| 15   | Benzyl Alcohol               | 40.000 | 44.559 | -11.4 | 106   | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 39.121 | 2.2   | 99    | 0.00     |
| 17   | 2-Methylphenol               | 40.000 | 43.191 | -8.0  | 113   | 0.00     |
| 18   | Hexachloroethane             | 40.000 | 38.013 | 5.0   | 95    | -0.01    |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 41.422 | -3.6  | 105   | 0.00     |
| 20   | 3+4-Methylphenols            | 40.000 | 42.637 | -6.6  | 110   | 0.00     |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0   | 108   | 0.00     |
| 22   | Acetophenone                 | 40.000 | 39.107 | 2.2   | 103   | 0.00     |
| 23 S | Nitrobenzene-d5              | 80.000 | 78.717 | 1.6   | 104   | 0.00     |
| 24   | Nitrobenzene                 | 40.000 | 38.950 | 2.6   | 106   | 0.00     |
| 25   | Isophorone                   | 40.000 | 38.971 | 2.6   | 106   | 0.00     |
| 26 C | 2-Nitrophenol                | 40.000 | 41.762 | -4.4  | 114   | 0.00     |
| 27   | 2,4-Dimethylphenol           | 40.000 | 37.133 | 7.2   | 105   | 0.00     |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 39.869 | 0.3   | 110   | 0.00     |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 42.269 | -5.7  | 112   | 0.00     |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 39.449 | 1.4   | 107   | 0.00     |
| 31   | Naphthalene                  | 40.000 | 39.736 | 0.7   | 107   | 0.00     |
| 32   | Benzoic acid                 | 40.000 | 42.043 | -5.1  | 116   | 0.06     |
| 33   | 4-Chloroaniline              | 40.000 | 44.125 | -10.3 | 112   | -0.01    |
| 34 C | Hexachlorobutadiene          | 40.000 | 38.423 | 3.9   | 102   | -0.01    |
| 35   | Caprolactam                  | 40.000 | 46.107 | -15.3 | 123   | 0.02     |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 43.059 | -7.6  | 116   | 0.00     |
| 37   | 2-Methylnaphthalene          | 40.000 | 39.673 | 0.8   | 107   | 0.00     |
| 38 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0   | 116   | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 39.151 | 2.1   | 117   | 0.00     |
| 40 P | Hexachlorocyclopentadiene    | 40.000 | 34.623 | 13.4  | 98    | -0.01    |
| 41 S | 2,4,6-Tribromophenol         | 80.000 | 81.840 | -2.3  | 119   | 0.00     |
| 42 C | 2,4,6-Trichlorophenol        | 40.000 | 40.633 | -1.6  | 115   | 0.00     |
| 43   | 2,4,5-Trichlorophenol        | 40.000 | 41.178 | -2.9  | 121   | 0.00     |
| 44 S | 2-Fluorobiphenyl             | 80.000 | 78.835 | 1.5   | 109   | 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   | 1,1'-Biphenyl              | 40.000 | 38.026 | 4.9    | 111   | 0.00     |
| 46   | 2-Chloronaphthalene        | 40.000 | 38.641 | 3.4    | 113   | 0.00     |
| 47   | 2-Nitroaniline             | 40.000 | 40.664 | -1.7   | 116   | 0.00     |
| 48   | Acenaphthylene             | 40.000 | 38.654 | 3.4    | 112   | 0.00     |
| 49   | Dimethylphthalate          | 40.000 | 38.301 | 4.2    | 113   | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 41.639 | -4.1   | 119   | 0.00     |
| 51 C | Acenaphthene               | 40.000 | 39.458 | 1.4    | 113   | 0.00     |
| 52   | 3-Nitroaniline             | 40.000 | 40.874 | -2.2   | 117   | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 41.444 | -3.6   | 116   | 0.00     |
| 54   | Dibenzofuran               | 40.000 | 38.245 | 4.4    | 113   | 0.00     |
| 55 P | 4-Nitrophenol              | 40.000 | 41.269 | -3.2   | 122   | 0.01     |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 43.316 | -8.3   | 125   | 0.00     |
| 57   | Fluorene                   | 40.000 | 39.328 | 1.7    | 115   | 0.00     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 42.822 | -7.1   | 125   | 0.00     |
| 59   | Diethylphthalate           | 40.000 | 37.909 | 5.2    | 113   | 0.00     |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 39.188 | 2.0    | 116   | 0.00     |
| 61   | 4-Nitroaniline             | 40.000 | 39.987 | 0.0    | 116   | 0.02     |
| 62   | Azobenzene                 | 40.000 | 37.528 | 6.2    | 109   | 0.00     |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0    | 122   | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 41.631 | -4.1   | 118   | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 39.048 | 2.4    | 116   | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 38.102 | 4.7    | 115   | 0.00     |
| 67   | Hexachlorobenzene          | 40.000 | 39.680 | 0.8    | 122   | 0.00     |
| 68   | Atrazine                   | 40.000 | 39.887 | 0.3    | 119   | 0.00     |
| 69 C | Pentachlorophenol          | 40.000 | 38.585 | 3.5    | 117   | 0.00     |
| 70   | Phenanthrene               | 40.000 | 37.896 | 5.3    | 115   | 0.00     |
| 71   | Anthracene                 | 40.000 | 37.994 | 5.0    | 115   | 0.00     |
| 72   | Carbazole                  | 40.000 | 38.319 | 4.2    | 114   | 0.01     |
| 73   | Di-n-butylphthalate        | 40.000 | 38.514 | 3.7    | 111   | 0.00     |
| 74 C | Fluoranthene               | 40.000 | 39.101 | 2.2    | 114   | 0.01     |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0    | 119   | 0.00     |
| 76   | Benzidine                  | 40.000 | 63.361 | -58.4# | 193   | -0.02    |
| 77   | Pyrene                     | 40.000 | 40.173 | -0.4   | 112   | 0.00     |
| 78 S | Terphenyl-d14              | 80.000 | 70.454 | 11.9   | 111   | 0.00     |
| 79   | Butylbenzylphthalate       | 40.000 | 39.515 | 1.2    | 112   | 0.00     |
| 80   | Benzo(a)anthracene         | 40.000 | 40.288 | -0.7   | 114   | 0.00     |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 38.202 | 4.5    | 110   | 0.01     |
| 82   | Chrysene                   | 40.000 | 40.549 | -1.4   | 115   | 0.00     |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 37.329 | 6.7    | 109   | 0.00     |
| 84 c | Di-n-octyl phthalate       | 40.000 | 37.751 | 5.6    | 110   | -0.01    |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 38.612 | 3.5    | 114   | 0.01     |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0    | 117   | 0.00     |
| 87   | Benzo(b)fluoranthene       | 40.000 | 38.692 | 3.3    | 112   | 0.00     |

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|      | Compound               | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 39.484 | 1.3  | 116   | 0.01     |
| 89 C | Benzo(a)pyrene         | 40.000 | 38.960 | 2.6  | 114   | 0.01     |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 38.758 | 3.1  | 116   | 0.02     |
| 91   | Benzo(a,h,i)perylene   | 40.000 | 36.288 | 9.3  | 109   | 0.02     |

(#) = Out of Range

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