

Data Path : Z:\HPCHEM1\BNA G\Data\BG120915\  
 Data File : BG020025.D  
 Acq On : 9 Dec 2015 2:57  
 Operator : UM/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTDCCC040

Quant Time: Dec 09 07:11:42 2015  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG120215.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 02 18:50:01 2015  
 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    | 106   | -0.02    |
| 2    | 1,4-Dioxane                  | 40.000 | 42.470 | -6.2   | 113   | 0.00     |
| 3    | Pyridine                     | 40.000 | 43.366 | -8.4   | 114   | -0.02    |
| 4    | n-Nitrosodimethylamine       | 40.000 | 37.166 | 7.1    | 93    | -0.01    |
| 5 S  | 2-Fluorophenol               | 80.000 | 89.936 | -12.4  | 120   | -0.02    |
| 6    | Aniline                      | 40.000 | 43.096 | -7.7   | 112   | -0.02    |
| 7 S  | Phenol-d6                    | 80.000 | 89.985 | -12.5  | 119   | -0.01    |
| 8    | 2-Chlorophenol               | 40.000 | 44.345 | -10.9  | 117   | -0.02    |
| 9    | Benzaldehyde                 | 40.000 | 36.069 | 9.8    | 96    | -0.02    |
| 10 C | Phenol                       | 40.000 | 44.500 | -11.3  | 116   | -0.01    |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 42.264 | -5.7   | 113   | -0.02    |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 41.935 | -4.8   | 112   | -0.02    |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 41.669 | -4.2   | 112   | -0.02    |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 42.755 | -6.9   | 114   | -0.02    |
| 15   | Benzyl Alcohol               | 40.000 | 39.837 | 0.4    | 107   | -0.02    |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 38.951 | 2.6    | 104   | -0.02    |
| 17   | 2-Methylphenol               | 40.000 | 43.089 | -7.7   | 112   | -0.02    |
| 18   | Hexachloroethane             | 40.000 | 40.170 | -0.4   | 105   | -0.02    |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 38.383 | 4.0    | 102   | -0.02    |
| 20   | 3+4-Methylphenols            | 40.000 | 43.456 | -8.6   | 111   | -0.01    |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0    | 104   | -0.02    |
| 22   | Acetophenone                 | 40.000 | 41.708 | -4.3   | 107   | -0.02    |
| 23 S | Nitrobenzene-d5              | 80.000 | 85.804 | -7.3   | 110   | -0.02    |
| 24   | Nitrobenzene                 | 40.000 | 43.066 | -7.7   | 109   | -0.02    |
| 25   | Isophorone                   | 40.000 | 38.896 | 2.8    | 100   | -0.02    |
| 26 C | 2-Nitrophenol                | 40.000 | 49.415 | -23.5# | 125   | -0.02    |
| 27   | 2,4-Dimethylphenol           | 40.000 | 41.219 | -3.0   | 107   | -0.02    |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 40.990 | -2.5   | 106   | -0.02    |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 43.230 | -8.1   | 110   | -0.02    |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 41.839 | -4.6   | 107   | -0.02    |
| 31   | Naphthalene                  | 40.000 | 42.009 | -5.0   | 108   | -0.02    |
| 32   | Benzoic acid                 | 40.000 | 50.357 | -25.9# | 144   | 0.00     |
| 33   | 4-Chloroaniline              | 40.000 | 40.886 | -2.2   | 106   | -0.02    |
| 34 C | Hexachlorobutadiene          | 40.000 | 41.203 | -3.0   | 106   | -0.02    |
| 35   | Caprolactam                  | 40.000 | 38.766 | 3.1    | 103   | -0.03    |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 41.142 | -2.9   | 107   | -0.01    |
| 37   | 2-Methylnaphthalene          | 40.000 | 40.490 | -1.2   | 105   | -0.03    |
| 38 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0    | 99    | -0.02    |
| 39   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 41.950 | -4.9   | 105   | -0.02    |
| 40 P | Hexachlorocyclopentadiene    | 40.000 | 33.562 | 16.1   | 81    | -0.02    |
| 41 S | 2,4,6-Tribromophenol         | 80.000 | 83.893 | -4.9   | 104   | -0.02    |
| 42 C | 2,4,6-Trichlorophenol        | 40.000 | 41.535 | -3.8   | 105   | -0.02    |
| 43   | 2,4,5-Trichlorophenol        | 40.000 | 42.756 | -6.9   | 109   | -0.02    |
| 44 S | 2-Fluorobiphenyl             | 80.000 | 81.794 | -2.2   | 103   | -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 | 40.546 | -1.4  | 101   | -0.02    |
| 46   | 2-Chloronaphthalene        | 40.000 | 41.720 | -4.3  | 104   | -0.02    |
| 47   | 2-Nitroaniline             | 40.000 | 45.187 | -13.0 | 110   | -0.02    |
| 48   | Acenaphthylene             | 40.000 | 40.507 | -1.3  | 102   | -0.02    |
| 49   | Dimethylphthalate          | 40.000 | 38.392 | 4.0   | 97    | -0.03    |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 44.594 | -11.5 | 107   | -0.02    |
| 51 C | Acenaphthene               | 40.000 | 40.319 | -0.8  | 100   | -0.02    |
| 52   | 3-Nitroaniline             | 40.000 | 43.860 | -9.6  | 107   | -0.02    |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 32.513 | 18.7  | 84    | -0.02    |
| 54   | Dibenzofuran               | 40.000 | 40.312 | -0.8  | 101   | -0.02    |
| 55 P | 4-Nitrophenol              | 40.000 | 41.369 | -3.4  | 100   | -0.01    |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 45.881 | -14.7 | 108   | -0.02    |
| 57   | Fluorene                   | 40.000 | 39.296 | 1.8   | 99    | -0.02    |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 42.107 | -5.3  | 103   | -0.02    |
| 59   | Diethylphthalate           | 40.000 | 36.896 | 7.8   | 95    | -0.02    |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 38.933 | 2.7   | 98    | -0.02    |
| 61   | 4-Nitroaniline             | 40.000 | 42.753 | -6.9  | 103   | -0.02    |
| 62   | Azobenzene                 | 40.000 | 37.851 | 5.4   | 95    | -0.02    |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0   | 94    | -0.02    |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 38.999 | 2.5   | 96    | -0.02    |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 40.799 | -2.0  | 97    | -0.02    |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 41.275 | -3.2  | 97    | -0.03    |
| 67   | Hexachlorobenzene          | 40.000 | 41.285 | -3.2  | 98    | -0.02    |
| 68   | Atrazine                   | 40.000 | 38.834 | 2.9   | 91    | -0.02    |
| 69 C | Pentachlorophenol          | 40.000 | 42.693 | -6.7  | 100   | -0.02    |
| 70   | Phenanthrene               | 40.000 | 40.378 | -0.9  | 96    | -0.02    |
| 71   | Anthracene                 | 40.000 | 40.641 | -1.6  | 96    | -0.02    |
| 72   | Carbazole                  | 40.000 | 39.945 | 0.1   | 94    | -0.02    |
| 73   | Di-n-butylphthalate        | 40.000 | 40.294 | -0.7  | 95    | -0.03    |
| 74 C | Fluoranthene               | 40.000 | 41.011 | -2.5  | 96    | -0.03    |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0   | 97    | -0.04    |
| 76   | Benzidine                  | 40.000 | 33.787 | 15.5  | 79    | -0.02    |
| 77   | Pyrene                     | 40.000 | 40.822 | -2.1  | 97    | -0.02    |
| 78 S | Terphenyl-d14              | 80.000 | 80.223 | -0.3  | 94    | -0.03    |
| 79   | Butylbenzylphthalate       | 40.000 | 40.766 | -1.9  | 97    | -0.04    |
| 80   | Benzo(a)anthracene         | 40.000 | 39.588 | 1.0   | 96    | -0.03    |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 38.015 | 5.0   | 90    | -0.04    |
| 82   | Chrysene                   | 40.000 | 40.362 | -0.9  | 97    | -0.04    |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 39.749 | 0.6   | 96    | -0.05    |
| 84 c | Di-n-octyl phthalate       | 40.000 | 42.081 | -5.2  | 99    | -0.08    |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 42.993 | -7.5  | 103   | -0.11    |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0   | 98    | -0.06    |
| 87   | Benzo(b)fluoranthene       | 40.000 | 39.793 | 0.5   | 98    | -0.05    |

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|      | Compound               | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 40.450 | -1.1 | 101   | -0.05    |
| 89 C | Benzo(a)pyrene         | 40.000 | 40.690 | -1.7 | 101   | -0.06    |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 40.961 | -2.4 | 102   | -0.10    |
| 91   | Benzo(a,h,i)perylene   | 40.000 | 41.484 | -3.7 | 103   | -0.11    |

(#) = Out of Range

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