

Data Path : Z:\HPCHEM1\BNA G\DATA\BG091416\  
 Data File : BG023984.D  
 Acq On : 14 Sep 2016 16:30  
 Operator : UM/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTDCCC040

Quant Time: Sep 14 18:48:11 2016  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG083116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Sep 09 16:24:09 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   | 145   | 0.00     |
| 2    | 1,4-Dioxane                  | 40.000 | 44.483 | -11.2 | 147   | 0.00     |
| 3    | Pyridine                     | 40.000 | 48.016 | -20.0 | 157   | 0.00     |
| 4    | n-Nitrosodimethylamine       | 40.000 | 44.041 | -10.1 | 160   | 0.00     |
| 5 S  | 2-Fluorophenol               | 80.000 | 85.021 | -6.3  | 143   | 0.00     |
| 6    | Aniline                      | 40.000 | 41.282 | -3.2  | 144   | 0.00     |
| 7 S  | Phenol-d6                    | 80.000 | 83.377 | -4.2  | 143   | 0.00     |
| 8    | 2-Chlorophenol               | 40.000 | 38.213 | 4.5   | 132   | 0.00     |
| 9    | Benzaldehyde                 | 40.000 | 38.818 | 3.0   | 132   | 0.00     |
| 10 C | Phenol                       | 40.000 | 41.263 | -3.2  | 139   | 0.00     |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 40.737 | -1.8  | 152   | 0.00     |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 38.308 | 4.2   | 139   | 0.00     |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 38.050 | 4.9   | 142   | 0.00     |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 38.476 | 3.8   | 140   | 0.00     |
| 15   | Benzyl Alcohol               | 40.000 | 42.530 | -6.3  | 143   | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 39.360 | 1.6   | 147   | 0.00     |
| 17   | 2-Methylphenol               | 40.000 | 39.953 | 0.1   | 138   | 0.00     |
| 18   | Hexachloroethane             | 40.000 | 41.290 | -3.2  | 147   | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 39.920 | 0.2   | 143   | 0.00     |
| 20   | 3+4-Methylphenols            | 40.000 | 40.949 | -2.4  | 136   | 0.00     |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0   | 128   | 0.00     |
| 22   | Acetophenone                 | 40.000 | 42.513 | -6.3  | 137   | 0.00     |
| 23 S | Nitrobenzene-d5              | 80.000 | 88.079 | -10.1 | 145   | 0.00     |
| 24   | Nitrobenzene                 | 40.000 | 42.795 | -7.0  | 142   | 0.00     |
| 25   | Isophorone                   | 40.000 | 41.854 | -4.6  | 137   | 0.00     |
| 26 C | 2-Nitrophenol                | 40.000 | 41.850 | -4.6  | 137   | 0.00     |
| 27   | 2,4-Dimethylphenol           | 40.000 | 41.290 | -3.2  | 125   | 0.00     |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 42.503 | -6.3  | 141   | 0.00     |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 43.140 | -7.9  | 136   | 0.00     |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 41.556 | -3.9  | 139   | 0.00     |
| 31   | Naphthalene                  | 40.000 | 39.174 | 2.1   | 132   | 0.00     |
| 32   | Benzoic acid                 | 40.000 | 39.607 | 1.0   | 126   | 0.00     |
| 33   | 4-Chloroaniline              | 40.000 | 39.845 | 0.4   | 126   | 0.00     |
| 34 C | Hexachlorobutadiene          | 40.000 | 44.629 | -11.6 | 142   | 0.00     |
| 35   | Caprolactam                  | 40.000 | 37.465 | 6.3   | 116   | -0.02    |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 42.367 | -5.9  | 134   | 0.00     |
| 37   | 2-Methylnaphthalene          | 40.000 | 38.793 | 3.0   | 124   | 0.00     |
| 38 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0   | 120   | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 44.743 | -11.9 | 132   | 0.00     |
| 40 P | Hexachlorocyclopentadiene    | 40.000 | 25.973 | 35.1# | 75    | 0.00     |
| 41 S | 2,4,6-Tribromophenol         | 80.000 | 74.582 | 6.8   | 106   | 0.00     |
| 42 C | 2,4,6-Trichlorophenol        | 40.000 | 42.796 | -7.0  | 125   | 0.00     |
| 43   | 2,4,5-Trichlorophenol        | 40.000 | 43.136 | -7.8  | 123   | 0.00     |
| 44 S | 2-Fluorobiphenyl             | 80.000 | 82.784 | -3.5  | 125   | 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 | 40.791 | -2.0  | 122   | 0.00     |
| 46   | 2-Chloronaphthalene        | 40.000 | 40.891 | -2.2  | 124   | 0.00     |
| 47   | 2-Nitroaniline             | 40.000 | 45.325 | -13.3 | 137   | 0.00     |
| 48   | Acenaphthylene             | 40.000 | 39.751 | 0.6   | 119   | 0.00     |
| 49   | Dimethylphthalate          | 40.000 | 39.261 | 1.8   | 118   | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 39.103 | 2.2   | 116   | 0.00     |
| 51 C | Acenaphthene               | 40.000 | 39.760 | 0.6   | 121   | 0.00     |
| 52   | 3-Nitroaniline             | 40.000 | 40.236 | -0.6  | 114   | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 34.885 | 12.8  | 102   | 0.00     |
| 54   | Dibenzofuran               | 40.000 | 39.484 | 1.3   | 118   | 0.00     |
| 55 P | 4-Nitrophenol              | 40.000 | 32.836 | 17.9  | 101   | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 38.858 | 2.9   | 115   | 0.00     |
| 57   | Fluorene                   | 40.000 | 38.887 | 2.8   | 118   | 0.00     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 39.467 | 1.3   | 116   | 0.00     |
| 59   | Diethylphthalate           | 40.000 | 42.865 | -7.2  | 128   | 0.00     |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 38.928 | 2.7   | 114   | 0.00     |
| 61   | 4-Nitroaniline             | 40.000 | 37.925 | 5.2   | 111   | 0.00     |
| 62   | Azobenzene                 | 40.000 | 39.693 | 0.8   | 120   | 0.00     |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0   | 109   | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 40.533 | -1.3  | 109   | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 41.193 | -3.0  | 112   | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 41.051 | -2.6  | 110   | 0.00     |
| 67   | Hexachlorobenzene          | 40.000 | 39.863 | 0.3   | 108   | 0.00     |
| 68   | Atrazine                   | 40.000 | 40.424 | -1.1  | 107   | 0.00     |
| 69 C | Pentachlorophenol          | 40.000 | 36.989 | 7.5   | 95    | 0.00     |
| 70   | Phenanthrene               | 40.000 | 39.503 | 1.2   | 110   | 0.00     |
| 71   | Anthracene                 | 40.000 | 39.288 | 1.8   | 109   | 0.00     |
| 72   | Carbazole                  | 40.000 | 37.592 | 6.0   | 104   | 0.00     |
| 73   | Di-n-butylphthalate        | 40.000 | 37.987 | 5.0   | 106   | 0.00     |
| 74 C | Fluoranthene               | 40.000 | 38.734 | 3.2   | 105   | 0.00     |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0   | 103   | 0.00     |
| 76   | Benzidine                  | 40.000 | 12.159 | 69.6# | 30    | 0.00     |
| 77   | Pyrene                     | 40.000 | 39.647 | 0.9   | 103   | 0.00     |
| 78 S | Terphenyl-d14              | 80.000 | 79.978 | 0.0   | 104   | 0.00     |
| 79   | Butylbenzylphthalate       | 40.000 | 39.514 | 1.2   | 108   | 0.00     |
| 80   | Benzo(a)anthracene         | 40.000 | 40.686 | -1.7  | 107   | 0.00     |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 35.227 | 11.9  | 90    | 0.00     |
| 82   | Chrysene                   | 40.000 | 40.400 | -1.0  | 107   | 0.00     |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 39.897 | 0.3   | 111   | 0.00     |
| 84 c | Di-n-octyl phthalate       | 40.000 | 40.893 | -2.2  | 113   | 0.00     |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 42.162 | -5.4  | 115   | -0.02    |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0   | 111   | 0.00     |
| 87   | Benzo(b)fluoranthene       | 40.000 | 40.116 | -0.3  | 114   | 0.00     |

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|      | Compound               | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 41.112 | -2.8 | 115   | 0.00     |
| 89 C | Benzo(a)pyrene         | 40.000 | 40.896 | -2.2 | 116   | 0.00     |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 39.035 | 2.4  | 111   | -0.01    |
| 91   | Benzo(a,h,i)perylene   | 40.000 | 38.522 | 3.7  | 110   | 0.00     |

(#) = Out of Range

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