

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG022619\  
 Data File : BG039597.D  
 Acq On : 26 Feb 2019 12:45  
 Operator : JU/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTDCCC040

Quant Time: Feb 26 23:55:30 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG012919.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jan 29 15:41:51 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    | 117   | -0.02    |
| 2    | 1,4-Dioxane                  | 40.000 | 40.103 | -0.3   | 119   | -0.01    |
| 3    | Pyridine                     | 40.000 | 41.679 | -4.2   | 116   | -0.01    |
| 4    | n-Nitrosodimethylamine       | 40.000 | 36.271 | 9.3    | 107   | 0.00     |
| 5 S  | 2-Fluorophenol               | 80.000 | 79.597 | 0.5    | 118   | 0.00     |
| 6    | Aniline                      | 40.000 | 38.542 | 3.6    | 115   | -0.01    |
| 7 S  | Phenol-d6                    | 80.000 | 79.479 | 0.7    | 116   | 0.00     |
| 8    | 2-Chlorophenol               | 40.000 | 40.168 | -0.4   | 118   | -0.02    |
| 9    | Benzaldehyde                 | 40.000 | 39.086 | 2.3    | 116   | -0.02    |
| 10 C | Phenol                       | 40.000 | 39.636 | 0.9    | 119   | 0.00     |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 38.434 | 3.9    | 114   | -0.02    |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 39.175 | 2.1    | 117   | -0.02    |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 39.757 | 0.6    | 118   | -0.01    |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 39.205 | 2.0    | 118   | -0.02    |
| 15   | Benzyl Alcohol               | 40.000 | 39.281 | 1.8    | 114   | -0.01    |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 33.536 | 16.2   | 102   | -0.02    |
| 17   | 2-Methylphenol               | 40.000 | 38.965 | 2.6    | 116   | 0.00     |
| 18   | Hexachloroethane             | 40.000 | 39.910 | 0.2    | 119   | -0.02    |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 37.702 | 5.7    | 109   | -0.02    |
| 20   | 3+4-Methylphenols            | 40.000 | 39.711 | 0.7    | 114   | -0.01    |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0    | 112   | -0.02    |
| 22   | Acetophenone                 | 40.000 | 39.977 | 0.1    | 117   | -0.02    |
| 23 S | Nitrobenzene-d5              | 80.000 | 94.619 | -18.3  | 136   | -0.02    |
| 24   | Nitrobenzene                 | 40.000 | 44.731 | -11.8  | 131   | -0.02    |
| 25   | Isophorone                   | 40.000 | 38.435 | 3.9    | 111   | -0.02    |
| 26 C | 2-Nitrophenol                | 40.000 | 54.696 | -36.7# | 182   | -0.02    |
| 27   | 2,4-Dimethylphenol           | 40.000 | 40.420 | -1.1   | 117   | -0.01    |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 40.099 | -0.2   | 114   | -0.02    |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 43.007 | -7.5   | 123   | -0.01    |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 41.720 | -4.3   | 119   | -0.02    |
| 31   | Naphthalene                  | 40.000 | 39.463 | 1.3    | 116   | -0.02    |
| 32   | Benzoic acid                 | 40.000 | 46.299 | -15.7  | 151   | 0.00     |
| 33   | 4-Chloroaniline              | 40.000 | 40.375 | -0.9   | 117   | -0.02    |
| 34 C | Hexachlorobutadiene          | 40.000 | 41.826 | -4.6   | 120   | -0.02    |
| 35   | Caprolactam                  | 40.000 | 44.750 | -11.9  | 122   | -0.02    |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 42.085 | -5.2   | 119   | -0.01    |
| 37   | 2-Methylnaphthalene          | 40.000 | 39.226 | 1.9    | 116   | -0.02    |
| 38   | 1-Methylnaphthalene          | 40.000 | 39.050 | 2.4    | 115   | -0.02    |
| 39 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0    | 116   | -0.02    |
| 40   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 40.911 | -2.3   | 123   | -0.02    |
| 41 P | Hexachlorocyclopentadiene    | 40.000 | 43.259 | -8.1   | 129   | -0.02    |
| 42 S | 2,4,6-Tribromophenol         | 80.000 | 92.169 | -15.2  | 136   | -0.01    |
| 43 C | 2,4,6-Trichlorophenol        | 40.000 | 44.044 | -10.1  | 127   | -0.01    |
| 44   | 2,4,5-Trichlorophenol        | 40.000 | 43.839 | -9.6   | 123   | -0.01    |

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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 | 77.449 | 3.2    | 118   | -0.02    |
| 46   | 1,1'-Biphenyl              | 40.000 | 38.163 | 4.6    | 117   | -0.02    |
| 47   | 2-Chloronaphthalene        | 40.000 | 39.248 | 1.9    | 119   | -0.02    |
| 48   | 2-Nitroaniline             | 40.000 | 47.642 | -19.1  | 160   | -0.02    |
| 49   | Acenaphthylene             | 40.000 | 39.336 | 1.7    | 119   | -0.02    |
| 50   | Dimethylphthalate          | 40.000 | 40.182 | -0.5   | 122   | -0.02    |
| 51   | 2,6-Dinitrotoluene         | 40.000 | 48.382 | -21.0  | 154   | -0.02    |
| 52 C | Acenaphthene               | 40.000 | 38.509 | 3.7    | 114   | -0.02    |
| 53   | 3-Nitroaniline             | 40.000 | 47.759 | -19.4  | 153   | -0.01    |
| 54 P | 2,4-Dinitrophenol          | 40.000 | 62.804 | -57.0# | 229   | -0.01    |
| 55   | Dibenzofuran               | 40.000 | 39.396 | 1.5    | 120   | -0.02    |
| 56 P | 4-Nitrophenol              | 40.000 | 46.845 | -17.1  | 150   | 0.00     |
| 57   | 2,4-Dinitrotoluene         | 40.000 | 52.824 | -32.1# | 178   | -0.01    |
| 58   | Fluorene                   | 40.000 | 39.837 | 0.4    | 120   | -0.02    |
| 59   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 45.557 | -13.9  | 131   | -0.01    |
| 60   | Diethylphthalate           | 40.000 | 39.883 | 0.3    | 122   | -0.02    |
| 61   | 4-Chlorophenyl-phenylether | 40.000 | 40.659 | -1.6   | 125   | -0.02    |
| 62   | 4-Nitroaniline             | 40.000 | 48.169 | -20.4  | 151   | -0.01    |
| 63   | Azobenzene                 | 40.000 | 36.708 | 8.2    | 112   | -0.02    |
| 64 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0    | 120   | -0.02    |
| 65   | 4,6-Dinitro-2-methylphenol | 40.000 | 60.275 | -50.7# | 227   | -0.01    |
| 66 c | n-Nitrosodiphenylamine     | 40.000 | 38.727 | 3.2    | 121   | -0.02    |
| 67   | 4-Bromophenyl-phenylether  | 40.000 | 41.200 | -3.0   | 129   | -0.02    |
| 68   | Hexachlorobenzene          | 40.000 | 41.530 | -3.8   | 131   | -0.02    |
| 69   | Atrazine                   | 40.000 | 34.719 | 13.2   | 106   | -0.02    |
| 70 C | Pentachlorophenol          | 40.000 | 42.025 | -5.1   | 127   | -0.02    |
| 71   | Phenanthrene               | 40.000 | 38.724 | 3.2    | 122   | -0.02    |
| 72   | Anthracene                 | 40.000 | 39.127 | 2.2    | 123   | -0.02    |
| 73   | Carbazole                  | 40.000 | 39.004 | 2.5    | 124   | -0.02    |
| 74   | Di-n-butylphthalate        | 40.000 | 38.806 | 3.0    | 122   | -0.03    |
| 75 C | Fluoranthene               | 40.000 | 39.749 | 0.6    | 127   | -0.02    |
| 76 I | Chrysene-d12               | 20.000 | 20.000 | 0.0    | 125   | -0.02    |
| 77   | Benzidine                  | 40.000 | 35.193 | 12.0   | 116   | -0.02    |
| 78   | Pyrene                     | 40.000 | 39.475 | 1.3    | 128   | -0.02    |
| 79 S | Terphenyl-d14              | 80.000 | 77.208 | 3.5    | 126   | -0.02    |
| 80   | Butylbenzylphthalate       | 40.000 | 40.140 | -0.4   | 126   | -0.02    |
| 81   | Benzo(a)anthracene         | 40.000 | 39.541 | 1.1    | 129   | -0.02    |
| 82   | 3,3'-Dichlorobenzidine     | 40.000 | 41.648 | -4.1   | 133   | -0.02    |
| 83   | Chrysene                   | 40.000 | 39.607 | 1.0    | 128   | -0.02    |
| 84   | Bis(2-ethylhexyl)phthalate | 40.000 | 39.965 | 0.1    | 127   | -0.04    |
| 85 c | Di-n-octyl phthalate       | 40.000 | 39.853 | 0.4    | 126   | -0.06    |
| 86   | Indeno(1,2,3-cd)pyrene     | 40.000 | 42.423 | -6.1   | 135   | -0.08    |
| 87 I | Perylene-d12               | 20.000 | 20.000 | 0.0    | 128   | -0.04    |

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|      | Compound               | Amount | Calc.  | %Dev | Area | % Dev(min) |
|------|------------------------|--------|--------|------|------|------------|
| 88   | Benzo(b)fluoranthene   | 40.000 | 39.340 | 1.6  | 129  | -0.04      |
| 89   | Benzo(k)fluoranthene   | 40.000 | 38.268 | 4.3  | 128  | -0.04      |
| 90 C | Benzo(a)pyrene         | 40.000 | 39.780 | 0.5  | 131  | -0.04      |
| 91   | Dibenzo(a,h)anthracene | 40.000 | 40.681 | -1.7 | 135  | -0.08      |
| 92   | Benzo(q,h,i)perylene   | 40.000 | 41.165 | -2.9 | 135  | -0.08      |

(#) = Out of Range

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