

Data Path : Z:\HPCHEM1\BNA F\Data\BF062917\  
 Data File : BF096283.D  
 Acq On : 29 Jun 2017 11:14  
 Operator : SJ/MA  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Jun 29 17:51:25 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF062717.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jun 28 15:41:49 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    | 93    | 0.00     |
| 2    | 1,4-Dioxane                  | 40.000 | 41.568  | -3.9   | 97    | -0.02    |
| 3    | Pyridine                     | 40.000 | 42.540  | -6.3   | 97    | -0.04    |
| 4    | n-Nitrosodimethylamine       | 40.000 | 41.635  | -4.1   | 95    | 0.00     |
| 5 S  | 2-Fluorophenol               | 80.000 | 81.802  | -2.3   | 96    | 0.00     |
| 6    | Aniline                      | 40.000 | 41.601  | -4.0   | 96    | 0.00     |
| 7 S  | Phenol-d6                    | 80.000 | 83.836  | -4.8   | 99    | 0.01     |
| 8    | 2-Chlorophenol               | 40.000 | 41.675  | -4.2   | 96    | 0.00     |
| 9    | Benzaldehyde                 | 40.000 | 42.913  | -7.3   | 96    | -0.01    |
| 10 C | Phenol                       | 40.000 | 41.880  | -4.7   | 95    | 0.02     |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 41.284  | -3.2   | 96    | 0.00     |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 41.066  | -2.7   | 97    | 0.00     |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 40.559  | -1.4   | 95    | 0.00     |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 40.922  | -2.3   | 96    | 0.00     |
| 15   | Benzyl Alcohol               | 40.000 | 43.060  | -7.7   | 98    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 40.804  | -2.0   | 94    | 0.00     |
| 17   | 2-Methylphenol               | 40.000 | 42.337  | -5.8   | 99    | 0.00     |
| 18   | Hexachloroethane             | 40.000 | 42.442  | -6.1   | 97    | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 41.818  | -4.5   | 97    | 0.01     |
| 20   | 3+4-Methylphenols            | 40.000 | 40.982  | -2.5   | 97    | 0.00     |
| 21 I | Naphthalene-d8               | 20.000 | 20.000  | 0.0    | 92    | 0.00     |
| 22   | Acetophenone                 | 40.000 | 40.722  | -1.8   | 95    | -0.02    |
| 23 S | Nitrobenzene-d5              | 80.000 | 93.214  | -16.5  | 104   | -0.02    |
| 24   | Nitrobenzene                 | 40.000 | 46.548  | -16.4  | 100   | 0.01     |
| 25   | Isophorone                   | 40.000 | 41.485  | -3.7   | 98    | 0.00     |
| 26 C | 2-Nitrophenol                | 40.000 | 49.550  | -23.9# | 120   | -0.02    |
| 27   | 2,4-Dimethylphenol           | 40.000 | 41.102  | -2.8   | 96    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 40.310  | -0.8   | 96    | 0.00     |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 43.124  | -7.8   | 98    | 0.00     |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 40.700  | -1.8   | 96    | 0.00     |
| 31   | Naphthalene                  | 40.000 | 40.415  | -1.0   | 97    | 0.00     |
| 32   | Benzoic acid                 | 40.000 | 41.683  | -4.2   | 101   | -0.05    |
| 33   | 4-Chloroaniline              | 40.000 | 41.685  | -4.2   | 97    | 0.00     |
| 34 C | Hexachlorobutadiene          | 40.000 | 41.594  | -4.0   | 97    | 0.00     |
| 35   | Caprolactam                  | 40.000 | 43.871  | -9.7   | 98    | 0.06     |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 42.103  | -5.3   | 96    | 0.00     |
| 37   | 2-Methylnaphthalene          | 40.000 | 40.225  | -0.6   | 96    | 0.00     |
| 38 I | Acenaphthene-d10             | 20.000 | 20.000  | 0.0    | 93    | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 40.993  | -2.5   | 99    | 0.00     |
| 40 P | Hexachlorocyclopentadiene    | 40.000 | 47.746  | -19.4  | 104   | 0.00     |
| 41 S | 2,4,6-Tribromophenol         | 80.000 | 108.772 | -36.0# | 124   | 0.00     |
| 42 C | 2,4,6-Trichlorophenol        | 40.000 | 44.092  | -10.2  | 101   | 0.00     |
| 43   | 2,4,5-Trichlorophenol        | 40.000 | 43.414  | -8.5   | 96    | 0.00     |
| 44 S | 2-Fluorobiphenyl             | 80.000 | 86.792  | -8.5   | 95    | -0.02    |

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 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                   | Amount | Calc.  | %Dev   | Area% | Dev(min) |
|------|----------------------------|--------|--------|--------|-------|----------|
| 45   | 1,1'-Biphenyl              | 40.000 | 41.539 | -3.8   | 96    | -0.01    |
| 46   | 2-Chloronaphthalene        | 40.000 | 40.464 | -1.2   | 97    | 0.00     |
| 47   | 2-Nitroaniline             | 40.000 | 49.660 | -24.1  | 112   | -0.02    |
| 48   | Acenaphthylene             | 40.000 | 40.271 | -0.7   | 97    | 0.00     |
| 49   | Dimethylphthalate          | 40.000 | 41.089 | -2.7   | 97    | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 46.095 | -15.2  | 104   | -0.02    |
| 51 C | Acenaphthene               | 40.000 | 40.900 | -2.2   | 99    | 0.00     |
| 52   | 3-Nitroaniline             | 40.000 | 46.258 | -15.6  | 106   | -0.02    |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 58.592 | -46.5# | 164   | -0.02    |
| 54   | Dibenzofuran               | 40.000 | 41.623 | -4.1   | 97    | -0.01    |
| 55 P | 4-Nitrophenol              | 40.000 | 46.591 | -16.5  | 104   | -0.02    |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 48.070 | -20.2  | 105   | -0.02    |
| 57   | Fluorene                   | 40.000 | 44.648 | -11.6  | 98    | -0.01    |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 42.945 | -7.4   | 96    | 0.00     |
| 59   | Diethylphthalate           | 40.000 | 39.465 | 1.3    | 92    | 0.00     |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 43.868 | -9.7   | 99    | 0.00     |
| 61   | 4-Nitroaniline             | 40.000 | 46.107 | -15.3  | 106   | -0.02    |
| 62   | Azobenzene                 | 40.000 | 40.440 | -1.1   | 96    | 0.00     |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0    | 95    | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 52.173 | -30.4# | 138   | -0.01    |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 39.484 | 1.3    | 96    | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 41.569 | -3.9   | 99    | 0.00     |
| 67   | Hexachlorobenzene          | 40.000 | 44.216 | -10.5  | 105   | 0.00     |
| 68   | Atrazine                   | 40.000 | 40.676 | -1.7   | 96    | 0.00     |
| 69 C | Pentachlorophenol          | 40.000 | 49.422 | -23.6# | 107   | 0.00     |
| 70   | Phenanthrene               | 40.000 | 43.605 | -9.0   | 96    | -0.01    |
| 71   | Anthracene                 | 40.000 | 40.783 | -2.0   | 96    | -0.02    |
| 72   | Carbazole                  | 40.000 | 39.349 | 1.6    | 96    | 0.00     |
| 73   | Di-n-butylphthalate        | 40.000 | 39.958 | 0.1    | 93    | 0.00     |
| 74 C | Fluoranthene               | 40.000 | 39.982 | 0.0    | 97    | 0.00     |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0    | 103   | 0.00     |
| 76   | Benzidine                  | 40.000 | 37.288 | 6.8    | 90    | 0.00     |
| 77   | Pyrene                     | 40.000 | 37.190 | 7.0    | 95    | 0.00     |
| 78 S | Terphenyl-d14              | 80.000 | 77.197 | 3.5    | 102   | 0.00     |
| 79   | Butylbenzylphthalate       | 40.000 | 39.911 | 0.2    | 97    | 0.00     |
| 80   | Benzo(a)anthracene         | 40.000 | 36.998 | 7.5    | 94    | 0.00     |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 41.396 | -3.5   | 99    | 0.00     |
| 82   | Chrysene                   | 40.000 | 37.315 | 6.7    | 95    | 0.01     |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 37.932 | 5.2    | 90    | 0.00     |
| 84 c | Di-n-octyl phthalate       | 40.000 | 38.665 | 3.3    | 94    | 0.00     |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 39.996 | 0.0    | 103   | 0.02     |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0    | 99    | 0.00     |
| 87   | Benzo(b)fluoranthene       | 40.000 | 36.376 | 9.1    | 94    | -0.02    |

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|      | Compound               | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 38.351 | 4.1  | 93    | 0.01     |
| 89 C | Benzo(a)pyrene         | 40.000 | 38.168 | 4.6  | 94    | 0.01     |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 40.423 | -1.1 | 102   | 0.02     |
| 91   | Benzo(a,h,i)perylene   | 40.000 | 40.085 | -0.2 | 104   | 0.03     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 2