

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120517\  
 Data File : BF101139.D  
 Acq On : 5 Dec 2017 22:51  
 Operator : SJ/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Dec 06 02:52:21 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 04 13:07:49 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   | 96    | 0.00     |
| 2    | 1,4-Dioxane                  | 40.000 | 40.743 | -1.9  | 94    | 0.01     |
| 3    | Pyridine                     | 40.000 | 43.554 | -8.9  | 93    | 0.01     |
| 4    | n-Nitrosodimethylamine       | 40.000 | 43.373 | -8.4  | 99    | 0.01     |
| 5 S  | 2-Fluorophenol               | 80.000 | 82.748 | -3.4  | 96    | 0.00     |
| 6    | Aniline                      | 40.000 | 39.086 | 2.3   | 91    | 0.00     |
| 7 S  | Phenol-d6                    | 80.000 | 79.759 | 0.3   | 94    | 0.00     |
| 8    | 2-Chlorophenol               | 40.000 | 39.755 | 0.6   | 94    | 0.00     |
| 9    | Benzaldehyde                 | 40.000 | 36.861 | 7.8   | 91    | 0.00     |
| 10 C | Phenol                       | 40.000 | 38.947 | 2.6   | 92    | 0.00     |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 38.257 | 4.4   | 90    | 0.00     |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 40.523 | -1.3  | 94    | 0.00     |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 39.954 | 0.1   | 94    | 0.00     |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 39.738 | 0.7   | 95    | 0.00     |
| 15   | Benzyl Alcohol               | 40.000 | 38.714 | 3.2   | 89    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 37.882 | 5.3   | 87    | 0.00     |
| 17   | 2-Methylphenol               | 40.000 | 38.140 | 4.6   | 90    | 0.00     |
| 18   | Hexachloroethane             | 40.000 | 37.255 | 6.9   | 88    | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 36.876 | 7.8   | 88    | 0.00     |
| 20   | 3+4-Methylphenols            | 40.000 | 38.174 | 4.6   | 89    | 0.00     |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0   | 89    | 0.00     |
| 22   | Acetophenone                 | 40.000 | 40.165 | -0.4  | 88    | 0.00     |
| 23 S | Nitrobenzene-d5              | 80.000 | 81.182 | -1.5  | 88    | 0.00     |
| 24   | Nitrobenzene                 | 40.000 | 40.849 | -2.1  | 90    | 0.00     |
| 25   | Isophorone                   | 40.000 | 39.028 | 2.4   | 86    | 0.00     |
| 26 C | 2-Nitrophenol                | 40.000 | 38.058 | 4.9   | 84    | 0.00     |
| 27   | 2,4-Dimethylphenol           | 40.000 | 40.415 | -1.0  | 89    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 39.215 | 2.0   | 86    | 0.00     |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 40.938 | -2.3  | 88    | 0.00     |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 40.017 | -0.0  | 88    | 0.00     |
| 31   | Naphthalene                  | 40.000 | 39.738 | 0.7   | 88    | 0.00     |
| 32   | Benzoic acid                 | 40.000 | 34.184 | 14.5  | 78    | 0.00     |
| 33   | 4-Chloroaniline              | 40.000 | 39.707 | 0.7   | 85    | 0.00     |
| 34 C | Hexachlorobutadiene          | 40.000 | 41.652 | -4.1  | 92    | 0.00     |
| 35   | Caprolactam                  | 40.000 | 36.406 | 9.0   | 78    | 0.00     |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 39.344 | 1.6   | 86    | 0.00     |
| 37   | 2-Methylnaphthalene          | 40.000 | 38.797 | 3.0   | 85    | 0.00     |
| 38 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0   | 81    | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 42.248 | -5.6  | 86    | 0.00     |
| 40 P | Hexachlorocyclopentadiene    | 40.000 | 17.895 | 55.3# | 26    | 0.00     |
| 41 S | 2,4,6-Tribromophenol         | 80.000 | 73.297 | 8.4   | 74    | 0.00     |
| 42 C | 2,4,6-Trichlorophenol        | 40.000 | 41.818 | -4.5  | 83    | 0.00     |
| 43   | 2,4,5-Trichlorophenol        | 40.000 | 41.627 | -4.1  | 83    | 0.00     |
| 44 S | 2-Fluorobiphenyl             | 80.000 | 83.539 | -4.4  | 85    | 0.00     |

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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 | 40.875 | -2.2   | 84    | 0.00     |
| 46   | 2-Chloronaphthalene        | 40.000 | 41.152 | -2.9   | 83    | 0.00     |
| 47   | 2-Nitroaniline             | 40.000 | 39.785 | 0.5    | 80    | 0.00     |
| 48   | Acenaphthylene             | 40.000 | 40.079 | -0.2   | 81    | 0.00     |
| 49   | Dimethylphthalate          | 40.000 | 39.425 | 1.4    | 80    | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 38.610 | 3.5    | 79    | 0.00     |
| 51 C | Acenaphthene               | 40.000 | 39.206 | 2.0    | 81    | 0.00     |
| 52   | 3-Nitroaniline             | 40.000 | 38.718 | 3.2    | 78    | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 15.388 | 61.5#  | 24    | 0.00     |
| 54   | Dibenzofuran               | 40.000 | 39.036 | 2.4    | 79    | 0.00     |
| 55 P | 4-Nitrophenol              | 40.000 | 32.729 | 18.2   | 64    | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 36.511 | 8.7    | 72    | 0.00     |
| 57   | Fluorene                   | 40.000 | 38.697 | 3.3    | 78    | 0.00     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 38.120 | 4.7    | 76    | 0.00     |
| 59   | Diethylphthalate           | 40.000 | 38.508 | 3.7    | 77    | 0.00     |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 39.573 | 1.1    | 80    | 0.00     |
| 61   | 4-Nitroaniline             | 40.000 | 35.403 | 11.5   | 71    | 0.00     |
| 62   | Azobenzene                 | 40.000 | 37.645 | 5.9    | 76    | 0.00     |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0    | 72    | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 20.700 | 48.3#  | 36    | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 43.041 | -7.6   | 77    | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 42.104 | -5.3   | 75    | 0.00     |
| 67   | Hexachlorobenzene          | 40.000 | 39.830 | 0.4    | 72    | 0.00     |
| 68   | Atrazine                   | 40.000 | 40.848 | -2.1   | 74    | 0.00     |
| 69 C | Pentachlorophenol          | 40.000 | 32.927 | 17.7   | 56    | 0.00     |
| 70   | Phenanthrene               | 40.000 | 38.695 | 3.3    | 70    | 0.00     |
| 71   | Anthracene                 | 40.000 | 38.957 | 2.6    | 69    | 0.00     |
| 72   | Carbazole                  | 40.000 | 36.868 | 7.8    | 66    | 0.00     |
| 73   | Di-n-butylphthalate        | 40.000 | 39.522 | 1.2    | 70    | 0.00     |
| 74 C | Fluoranthene               | 40.000 | 32.816 | 18.0   | 60    | 0.00     |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0    | 51    | 0.00     |
| 76   | Benzidine                  | 40.000 | 39.345 | 1.6    | 49    | 0.00     |
| 77   | Pyrene                     | 40.000 | 46.179 | -15.4  | 57    | 0.00     |
| 78 S | Terphenyl-d14              | 80.000 | 98.233 | -22.8  | 62    | 0.00     |
| 79   | Butylbenzylphthalate       | 40.000 | 44.660 | -11.6  | 55    | 0.00     |
| 80   | Benzo(a)anthracene         | 40.000 | 39.325 | 1.7    | 49    | 0.00     |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 40.104 | -0.3   | 50    | 0.00     |
| 82   | Chrysene                   | 40.000 | 39.801 | 0.5    | 50    | 0.00     |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 41.640 | -4.1   | 51    | 0.00     |
| 84 c | Di-n-octyl phthalate       | 40.000 | 37.349 | 6.6    | 46    | 0.00     |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 50.478 | -26.2# | 64    | 0.01     |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0    | 59    | 0.00     |
| 87   | Benzo(b)fluoranthene       | 40.000 | 40.536 | -1.3   | 60    | 0.00     |

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|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 34.462 | 13.8 | 49    | 0.00     |
| 89 C | Benzo(a)pyrene         | 40.000 | 38.984 | 2.5  | 57    | 0.00     |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 42.528 | -6.3 | 63    | 0.01     |
| 91   | Benzo(a,h,i)perylene   | 40.000 | 42.060 | -5.2 | 63    | 0.00     |

(#) = Out of Range

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