

Data Path : Z:\svoasrv\HPCHEM1\BNA F\Data\BF081718\  
 Data File : BF108259.D  
 Acq On : 17 Aug 2018 23:06  
 Operator : JU/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Aug 17 23:37:41 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 08 12:24:24 2018  
 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   | 52    | 0.00     |
| 2    | 1,4-Dioxane                  | 40.000 | 38.250 | 4.4   | 50    | -0.02    |
| 3    | Pyridine                     | 40.000 | 38.597 | 3.5   | 50    | 0.00     |
| 4    | n-Nitrosodimethylamine       | 40.000 | 36.487 | 8.8   | 47    | -0.01    |
| 5 S  | 2-Fluorophenol               | 80.000 | 83.344 | -4.2  | 54    | 0.01     |
| 6    | Aniline                      | 40.000 | 40.576 | -1.4  | 54    | 0.00     |
| 7 S  | Phenol-d6                    | 80.000 | 82.206 | -2.8  | 54    | 0.00     |
| 8    | 2-Chlorophenol               | 40.000 | 41.566 | -3.9  | 54    | 0.00     |
| 9    | Benzaldehyde                 | 40.000 | 39.873 | 0.3   | 52    | 0.00     |
| 10 C | Phenol                       | 40.000 | 41.384 | -3.5  | 55    | 0.01     |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 41.284 | -3.2  | 54    | 0.00     |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 41.152 | -2.9  | 54    | 0.00     |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 41.294 | -3.2  | 53    | 0.00     |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 41.160 | -2.9  | 54    | 0.00     |
| 15   | Benzyl Alcohol               | 40.000 | 39.887 | 0.3   | 51    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 38.513 | 3.7   | 50    | 0.00     |
| 17   | 2-Methylphenol               | 40.000 | 39.898 | 0.3   | 51    | 0.01     |
| 18   | Hexachloroethane             | 40.000 | 38.301 | 4.2   | 49    | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 39.540 | 1.2   | 52    | 0.00     |
| 20   | 3+4-Methylphenols            | 40.000 | 39.517 | 1.2   | 51    | 0.00     |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0   | 52    | 0.00     |
| 22   | Acetophenone                 | 40.000 | 40.277 | -0.7  | 52    | 0.00     |
| 23 S | Nitrobenzene-d5              | 80.000 | 82.355 | -2.9  | 53    | 0.00     |
| 24   | Nitrobenzene                 | 40.000 | 40.534 | -1.3  | 51    | 0.00     |
| 25   | Isophorone                   | 40.000 | 39.371 | 1.6   | 51    | 0.00     |
| 26 C | 2-Nitrophenol                | 40.000 | 42.769 | -6.9  | 54    | 0.00     |
| 27   | 2,4-Dimethylphenol           | 40.000 | 39.355 | 1.6   | 51    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 40.408 | -1.0  | 52    | 0.00     |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 40.575 | -1.4  | 51    | 0.00     |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 40.035 | -0.1  | 52    | 0.00     |
| 31   | Naphthalene                  | 40.000 | 41.137 | -2.8  | 54    | 0.00     |
| 32   | Benzoic acid                 | 40.000 | 29.484 | 26.3# | 37    | 0.00     |
| 33   | 4-Chloroaniline              | 40.000 | 39.900 | 0.3   | 51    | 0.00     |
| 34 C | Hexachlorobutadiene          | 40.000 | 41.014 | -2.5  | 53    | 0.00     |
| 35   | Caprolactam                  | 40.000 | 38.230 | 4.4   | 47    | 0.00     |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 37.698 | 5.8   | 48    | 0.00     |
| 37   | 2-Methylnaphthalene          | 40.000 | 39.860 | 0.4   | 52    | 0.00     |
| 38 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0   | 44    | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 46.678 | -16.7 | 51    | 0.00     |
| 40 P | Hexachlorocyclopentadiene    | 40.000 | 10.679 | 73.3# | 11    | 0.00     |
| 41 S | 2,4,6-Tribromophenol         | 80.000 | 75.750 | 5.3   | 40    | 0.00     |
| 42 C | 2,4,6-Trichlorophenol        | 40.000 | 45.398 | -13.5 | 48    | 0.00     |
| 43   | 2,4,5-Trichlorophenol        | 40.000 | 43.047 | -7.6  | 45    | 0.00     |
| 44 S | 2-Fluorobiphenyl             | 80.000 | 94.931 | -18.7 | 54    | 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 | 46.215 | -15.5  | 51    | 0.00     |
| 46   | 2-Chloronaphthalene        | 40.000 | 44.410 | -11.0  | 49    | 0.00     |
| 47   | 2-Nitroaniline             | 40.000 | 44.319 | -10.8  | 46    | 0.00     |
| 48   | Acenaphthylene             | 40.000 | 42.876 | -7.2   | 48    | 0.00     |
| 49   | Dimethylphthalate          | 40.000 | 44.164 | -10.4  | 49    | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 42.252 | -5.6   | 45    | 0.00     |
| 51 C | Acenaphthene               | 40.000 | 40.393 | -1.0   | 45    | 0.00     |
| 52   | 3-Nitroaniline             | 40.000 | 41.338 | -3.3   | 44    | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 12.651 | 68.4#  | 8     | 0.00     |
| 54   | Dibenzofuran               | 40.000 | 41.394 | -3.5   | 46    | 0.00     |
| 55 P | 4-Nitrophenol              | 40.000 | 33.286 | 16.8   | 36    | 0.01     |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 40.080 | -0.2   | 41    | 0.00     |
| 57   | Fluorene                   | 40.000 | 39.583 | 1.0    | 44    | 0.00     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 39.049 | 2.4    | 41    | 0.00     |
| 59   | Diethylphthalate           | 40.000 | 42.662 | -6.7   | 47    | 0.00     |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 41.155 | -2.9   | 45    | 0.00     |
| 61   | 4-Nitroaniline             | 40.000 | 39.010 | 2.5    | 41    | -0.01    |
| 62   | Azobenzene                 | 40.000 | 38.640 | 3.4    | 43    | 0.00     |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0    | 37    | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 15.227 | 61.9#  | 11    | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 46.925 | -17.3  | 43    | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 46.248 | -15.6  | 42    | 0.00     |
| 67   | Hexachlorobenzene          | 40.000 | 42.539 | -6.3   | 39    | 0.00     |
| 68   | Atrazine                   | 40.000 | 43.734 | -9.3   | 39    | 0.00     |
| 69 C | Pentachlorophenol          | 40.000 | 36.669 | 8.3    | 32    | 0.00     |
| 70   | Phenanthrene               | 40.000 | 42.443 | -6.1   | 40    | 0.00     |
| 71   | Anthracene                 | 40.000 | 43.099 | -7.7   | 40    | 0.00     |
| 72   | Carbazole                  | 40.000 | 40.873 | -2.2   | 38    | 0.00     |
| 73   | Di-n-butylphthalate        | 40.000 | 47.893 | -19.7  | 44    | -0.01    |
| 74 C | Fluoranthene               | 40.000 | 41.531 | -3.8   | 39    | 0.00     |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0    | 41    | 0.00     |
| 76   | Benzidine                  | 40.000 | 37.056 | 7.4    | 36    | 0.00     |
| 77   | Pyrene                     | 40.000 | 37.581 | 6.0    | 39    | 0.00     |
| 78 S | Terphenyl-d14              | 80.000 | 79.131 | 1.1    | 42    | 0.00     |
| 79   | Butylbenzylphthalate       | 40.000 | 41.474 | -3.7   | 40    | 0.00     |
| 80   | Benzo(a)anthracene         | 40.000 | 41.960 | -4.9   | 43    | 0.00     |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 44.111 | -10.3  | 43    | 0.00     |
| 82   | Chrysene                   | 40.000 | 42.533 | -6.3   | 44    | 0.00     |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 41.377 | -3.4   | 41    | -0.01    |
| 84 c | Di-n-octyl phthalate       | 40.000 | 49.757 | -24.4# | 48    | -0.01    |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 31.832 | 20.4   | 33    | 0.00     |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0    | 38    | 0.00     |
| 87   | Benzo(b)fluoranthene       | 40.000 | 44.892 | -12.2  | 40    | 0.00     |

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|------|------------------------|--------|--------|-------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 46.300 | -15.7 | 45    | 0.00     |
| 89 C | Benzo(a)pyrene         | 40.000 | 41.721 | -4.3  | 39    | 0.00     |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 36.022 | 9.9   | 34    | -0.01    |
| 91   | Benzo(a,h,i)perylene   | 40.000 | 34.758 | 13.1  | 33    | 0.00     |

(#) = Out of Range

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