

Data Path : Z:\HPCHEM1\BNA F\DATA\BF031918\  
 Data File : BF103785.D  
 Acq On : 20 Mar 2018 5:25  
 Operator : JU/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Mar 20 07:01:17 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF031518.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Mar 15 18:31:53 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    | 86    | 0.00     |
| 2    | 1,4-Dioxane                  | 40.000 | 38.283 | 4.3    | 81    | -0.03    |
| 3    | Pyridine                     | 40.000 | 38.580 | 3.6    | 83    | -0.02    |
| 4    | n-Nitrosodimethylamine       | 40.000 | 33.061 | 17.3   | 71    | -0.02    |
| 5 S  | 2-Fluorophenol               | 80.000 | 78.026 | 2.5    | 83    | 0.00     |
| 6    | Aniline                      | 40.000 | 38.244 | 4.4    | 81    | 0.00     |
| 7 S  | Phenol-d6                    | 80.000 | 78.027 | 2.5    | 84    | 0.00     |
| 8    | 2-Chlorophenol               | 40.000 | 39.990 | 0.0    | 85    | 0.00     |
| 9    | Benzaldehyde                 | 40.000 | 36.401 | 9.0    | 79    | 0.00     |
| 10 C | Phenol                       | 40.000 | 38.594 | 3.5    | 83    | 0.00     |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 38.429 | 3.9    | 83    | 0.00     |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 39.550 | 1.1    | 85    | 0.00     |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 39.567 | 1.1    | 85    | 0.00     |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 39.715 | 0.7    | 86    | 0.00     |
| 15   | Benzyl Alcohol               | 40.000 | 37.597 | 6.0    | 80    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 35.804 | 10.5   | 77    | 0.00     |
| 17   | 2-Methylphenol               | 40.000 | 39.402 | 1.5    | 84    | 0.01     |
| 18   | Hexachloroethane             | 40.000 | 35.144 | 12.1   | 74    | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 35.946 | 10.1   | 78    | 0.00     |
| 20   | 3+4-Methylphenols            | 40.000 | 39.589 | 1.0    | 84    | 0.00     |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0    | 84    | 0.00     |
| 22   | Acetophenone                 | 40.000 | 37.240 | 6.9    | 80    | 0.00     |
| 23 S | Nitrobenzene-d5              | 80.000 | 92.875 | -16.1  | 93    | 0.00     |
| 24   | Nitrobenzene                 | 40.000 | 42.323 | -5.8   | 85    | 0.00     |
| 25   | Isophorone                   | 40.000 | 36.867 | 7.8    | 79    | 0.00     |
| 26 C | 2-Nitrophenol                | 40.000 | 50.581 | -26.5# | 123   | 0.00     |
| 27   | 2,4-Dimethylphenol           | 40.000 | 40.092 | -0.2   | 85    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 38.564 | 3.6    | 82    | 0.00     |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 41.686 | -4.2   | 85    | 0.01     |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 40.351 | -0.9   | 86    | 0.00     |
| 31   | Naphthalene                  | 40.000 | 38.508 | 3.7    | 83    | 0.00     |
| 32   | Benzoic acid                 | 40.000 | 37.161 | 7.1    | 84    | 0.00     |
| 33   | 4-Chloroaniline              | 40.000 | 39.813 | 0.5    | 83    | 0.00     |
| 34 C | Hexachlorobutadiene          | 40.000 | 39.456 | 1.4    | 83    | 0.00     |
| 35   | Caprolactam                  | 40.000 | 42.803 | -7.0   | 89    | 0.00     |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 39.571 | 1.1    | 82    | 0.00     |
| 37   | 2-Methylnaphthalene          | 40.000 | 38.719 | 3.2    | 82    | 0.00     |
| 38 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0    | 81    | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 42.413 | -6.0   | 86    | 0.00     |
| 40 P | Hexachlorocyclopentadiene    | 40.000 | 13.986 | 65.0#  | 27    | 0.00     |
| 41 S | 2,4,6-Tribromophenol         | 80.000 | 92.067 | -15.1  | 87    | 0.01     |
| 42 C | 2,4,6-Trichlorophenol        | 40.000 | 45.253 | -13.1  | 87    | 0.00     |
| 43   | 2,4,5-Trichlorophenol        | 40.000 | 44.823 | -12.1  | 86    | 0.01     |
| 44 S | 2-Fluorobiphenyl             | 80.000 | 79.905 | 0.1    | 84    | 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 | 40.654 | -1.6  | 83    | 0.00     |
| 46   | 2-Chloronaphthalene        | 40.000 | 40.613 | -1.5  | 83    | 0.00     |
| 47   | 2-Nitroaniline             | 40.000 | 47.908 | -19.8 | 102   | 0.00     |
| 48   | Acenaphthylene             | 40.000 | 40.103 | -0.3  | 82    | 0.00     |
| 49   | Dimethylphthalate          | 40.000 | 42.257 | -5.6  | 86    | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 46.639 | -16.6 | 95    | 0.00     |
| 51 C | Acenaphthene               | 40.000 | 39.785 | 0.5   | 81    | 0.00     |
| 52   | 3-Nitroaniline             | 40.000 | 48.107 | -20.3 | 98    | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 32.620 | 18.5  | 61    | 0.01     |
| 54   | Dibenzofuran               | 40.000 | 39.233 | 1.9   | 80    | 0.00     |
| 55 P | 4-Nitrophenol              | 40.000 | 43.890 | -9.7  | 90    | 0.01     |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 46.425 | -16.1 | 97    | 0.00     |
| 57   | Fluorene                   | 40.000 | 39.431 | 1.4   | 81    | 0.00     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 44.290 | -10.7 | 83    | 0.00     |
| 59   | Diethylphthalate           | 40.000 | 40.610 | -1.5  | 82    | 0.00     |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 40.805 | -2.0  | 84    | 0.00     |
| 61   | 4-Nitroaniline             | 40.000 | 47.604 | -19.0 | 96    | 0.00     |
| 62   | Azobenzene                 | 40.000 | 35.965 | 10.1  | 73    | 0.00     |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0   | 78    | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 33.124 | 17.2  | 60    | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 42.214 | -5.5  | 82    | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 42.896 | -7.2  | 82    | 0.00     |
| 67   | Hexachlorobenzene          | 40.000 | 40.778 | -1.9  | 79    | 0.01     |
| 68   | Atrazine                   | 40.000 | 41.320 | -3.3  | 79    | 0.00     |
| 69 C | Pentachlorophenol          | 40.000 | 41.015 | -2.5  | 75    | 0.00     |
| 70   | Phenanthrene               | 40.000 | 39.635 | 0.9   | 78    | 0.00     |
| 71   | Anthracene                 | 40.000 | 39.711 | 0.7   | 78    | 0.00     |
| 72   | Carbazole                  | 40.000 | 38.894 | 2.8   | 75    | 0.01     |
| 73   | Di-n-butylphthalate        | 40.000 | 41.498 | -3.7  | 79    | 0.00     |
| 74 C | Fluoranthene               | 40.000 | 37.356 | 6.6   | 72    | 0.01     |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0   | 66    | 0.01     |
| 76   | Benzidine                  | 40.000 | 43.893 | -9.7  | 71    | 0.00     |
| 77   | Pyrene                     | 40.000 | 41.671 | -4.2  | 71    | 0.00     |
| 78 S | Terphenyl-d14              | 80.000 | 85.618 | -7.0  | 74    | 0.00     |
| 79   | Butylbenzylphthalate       | 40.000 | 46.883 | -17.2 | 75    | 0.00     |
| 80   | Benzo(a)anthracene         | 40.000 | 39.733 | 0.7   | 66    | 0.01     |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 44.296 | -10.7 | 69    | 0.00     |
| 82   | Chrysene                   | 40.000 | 39.594 | 1.0   | 67    | 0.00     |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 45.454 | -13.6 | 72    | 0.00     |
| 84 c | Di-n-octyl phthalate       | 40.000 | 47.223 | -18.1 | 71    | 0.00     |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 42.041 | -5.1  | 69    | 0.03     |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0   | 66    | 0.01     |
| 87   | Benzo(b)fluoranthene       | 40.000 | 38.832 | 2.9   | 65    | 0.01     |

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|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 41.000 | -2.5 | 68    | 0.01     |
| 89 C | Benzo(a)pyrene         | 40.000 | 40.188 | -0.5 | 66    | 0.02     |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 41.946 | -4.9 | 70    | 0.02     |
| 91   | Benzo(a,h,i)perylene   | 40.000 | 40.407 | -1.0 | 68    | 0.03     |

(#) = Out of Range

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