

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050916\  
 Data File : BF086828.D  
 Acq On : 9 May 2016 17:50  
 Operator : UM/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: May 10 02:29:58 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050916.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon May 09 16:04:56 2016  
 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  | 104   | 0.00     |
| 2    | 1,4-Dioxane                  | 40.000 | 38.998 | 2.5  | 101   | 0.00     |
| 3    | Pyridine                     | 40.000 | 42.176 | -5.4 | 109   | -0.01    |
| 4    | n-Nitrosodimethylamine       | 40.000 | 41.085 | -2.7 | 101   | -0.01    |
| 5 S  | 2-Fluorophenol               | 80.000 | 81.160 | -1.4 | 104   | 0.00     |
| 6    | Aniline                      | 40.000 | 39.058 | 2.4  | 102   | 0.00     |
| 7 S  | Phenol-d6                    | 80.000 | 78.039 | 2.5  | 101   | -0.01    |
| 8    | 2-Chlorophenol               | 40.000 | 38.322 | 4.2  | 99    | 0.00     |
| 9    | Benzaldehyde                 | 40.000 | 36.837 | 7.9  | 99    | 0.00     |
| 10 C | Phenol                       | 40.000 | 35.424 | 11.4 | 89    | 0.00     |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 40.565 | -1.4 | 99    | 0.00     |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 36.614 | 8.5  | 96    | -0.01    |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 35.956 | 10.1 | 99    | 0.00     |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 40.127 | -0.3 | 100   | 0.00     |
| 15   | Benzyl Alcohol               | 40.000 | 39.085 | 2.3  | 100   | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 36.408 | 9.0  | 100   | 0.00     |
| 17   | 2-Methylphenol               | 40.000 | 39.835 | 0.4  | 100   | 0.00     |
| 18   | Hexachloroethane             | 40.000 | 37.296 | 6.8  | 98    | -0.01    |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 40.833 | -2.1 | 98    | 0.00     |
| 20   | 3+4-Methylphenols            | 40.000 | 38.906 | 2.7  | 97    | 0.00     |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0  | 106   | 0.00     |
| 22   | Acetophenone                 | 40.000 | 37.218 | 7.0  | 100   | 0.00     |
| 23 S | Nitrobenzene-d5              | 80.000 | 75.241 | 5.9  | 100   | 0.00     |
| 24   | Nitrobenzene                 | 40.000 | 39.148 | 2.1  | 103   | 0.00     |
| 25   | Isophorone                   | 40.000 | 36.921 | 7.7  | 103   | 0.00     |
| 26 C | 2-Nitrophenol                | 40.000 | 39.592 | 1.0  | 99    | 0.00     |
| 27   | 2,4-Dimethylphenol           | 40.000 | 34.613 | 13.5 | 99    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 39.768 | 0.6  | 102   | 0.00     |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 37.063 | 7.3  | 99    | -0.01    |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 38.630 | 3.4  | 103   | 0.00     |
| 31   | Naphthalene                  | 40.000 | 36.661 | 8.3  | 99    | 0.00     |
| 32   | Benzoic acid                 | 40.000 | 41.918 | -4.8 | 112   | 0.00     |
| 33   | 4-Chloroaniline              | 40.000 | 38.826 | 2.9  | 101   | 0.00     |
| 34 C | Hexachlorobutadiene          | 40.000 | 37.777 | 5.6  | 100   | 0.00     |
| 35   | Caprolactam                  | 40.000 | 36.195 | 9.5  | 101   | 0.00     |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 36.622 | 8.4  | 97    | 0.00     |
| 37   | 2-Methylnaphthalene          | 40.000 | 39.533 | 1.2  | 102   | 0.00     |
| 38 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0  | 108   | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 36.831 | 7.9  | 102   | 0.00     |
| 40 P | Hexachlorocyclopentadiene    | 40.000 | 37.252 | 6.9  | 98    | 0.00     |
| 41 S | 2,4,6-Tribromophenol         | 80.000 | 75.736 | 5.3  | 106   | 0.00     |
| 42 C | 2,4,6-Trichlorophenol        | 40.000 | 35.851 | 10.4 | 101   | 0.00     |
| 43   | 2,4,5-Trichlorophenol        | 40.000 | 37.621 | 5.9  | 102   | 0.00     |
| 44 S | 2-Fluorobiphenyl             | 80.000 | 68.086 | 14.9 | 103   | 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 | 39.351 | 1.6   | 103   | 0.00     |
| 46   | 2-Chloronaphthalene        | 40.000 | 38.847 | 2.9   | 101   | 0.00     |
| 47   | 2-Nitroaniline             | 40.000 | 36.329 | 9.2   | 104   | 0.00     |
| 48   | Acenaphthylene             | 40.000 | 39.988 | 0.0   | 103   | 0.00     |
| 49   | Dimethylphthalate          | 40.000 | 35.802 | 10.5  | 104   | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 35.958 | 10.1  | 103   | 0.00     |
| 51 C | Acenaphthene               | 40.000 | 40.769 | -1.9  | 103   | 0.00     |
| 52   | 3-Nitroaniline             | 40.000 | 36.914 | 7.7   | 102   | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 37.381 | 6.5   | 106   | 0.00     |
| 54   | Dibenzofuran               | 40.000 | 39.017 | 2.5   | 100   | 0.00     |
| 55 P | 4-Nitrophenol              | 40.000 | 39.345 | 1.6   | 105   | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 38.501 | 3.7   | 103   | 0.00     |
| 57   | Fluorene                   | 40.000 | 39.654 | 0.9   | 103   | 0.00     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 39.414 | 1.5   | 101   | 0.00     |
| 59   | Diethylphthalate           | 40.000 | 38.799 | 3.0   | 104   | 0.00     |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 36.374 | 9.1   | 102   | 0.00     |
| 61   | 4-Nitroaniline             | 40.000 | 41.330 | -3.3  | 104   | 0.00     |
| 62   | Azobenzene                 | 40.000 | 37.557 | 6.1   | 104   | 0.00     |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0   | 109   | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 37.971 | 5.1   | 106   | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 37.938 | 5.2   | 108   | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 40.419 | -1.0  | 104   | 0.00     |
| 67   | Hexachlorobenzene          | 40.000 | 35.372 | 11.6  | 106   | 0.00     |
| 68   | Atrazine                   | 40.000 | 38.812 | 3.0   | 97    | 0.00     |
| 69 C | Pentachlorophenol          | 40.000 | 42.557 | -6.4  | 106   | 0.00     |
| 70   | Phenanthrene               | 40.000 | 34.004 | 15.0  | 101   | 0.00     |
| 71   | Anthracene                 | 40.000 | 40.033 | -0.1  | 105   | 0.00     |
| 72   | Carbazole                  | 40.000 | 39.034 | 2.4   | 109   | 0.00     |
| 73   | Di-n-butylphthalate        | 40.000 | 38.540 | 3.7   | 104   | 0.00     |
| 74 C | Fluoranthene               | 40.000 | 38.775 | 3.1   | 104   | 0.00     |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0   | 116   | 0.00     |
| 76   | Benzidine                  | 40.000 | 46.602 | -16.5 | 124   | 0.00     |
| 77   | Pyrene                     | 40.000 | 33.999 | 15.0  | 103   | 0.00     |
| 78 S | Terphenyl-d14              | 80.000 | 73.886 | 7.6   | 108   | 0.00     |
| 79   | Butylbenzylphthalate       | 40.000 | 35.972 | 10.1  | 108   | 0.00     |
| 80   | Benzo(a)anthracene         | 40.000 | 36.442 | 8.9   | 110   | 0.00     |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 40.230 | -0.6  | 111   | 0.00     |
| 82   | Chrysene                   | 40.000 | 34.446 | 13.9  | 112   | 0.00     |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 35.940 | 10.2  | 106   | 0.00     |
| 84 c | Di-n-octyl phthalate       | 40.000 | 36.932 | 7.7   | 109   | 0.00     |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 34.543 | 13.6  | 100   | 0.00     |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0   | 114   | 0.00     |
| 87   | Benzo(b)fluoranthene       | 40.000 | 36.610 | 8.5   | 114   | 0.00     |

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|      | Compound               | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 38.762 | 3.1  | 107   | 0.00     |
| 89 C | Benzo(a)pyrene         | 40.000 | 37.018 | 7.5  | 108   | 0.00     |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 36.828 | 7.9  | 101   | 0.00     |
| 91   | Benzo(a,h,i)perylene   | 40.000 | 36.953 | 7.6  | 101   | 0.00     |

(#) = Out of Range

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