

Data Path : Z:\HPCHEM1\BNA F\DATA\BF030218\  
 Data File : BF103355.D  
 Acq On : 2 Mar 2018 10:07  
 Operator : SJ/JU  
 Sample : SSTDC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDC040

Quant Time: Mar 02 13:28:14 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 02 13:28:09 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   | 100   | 0.00     |
| 2    | 1,4-Dioxane                  | 40.000 | 39.466 | 1.3   | 97    | 0.00     |
| 3    | Pyridine                     | 40.000 | 42.152 | -5.4  | 103   | 0.00     |
| 4    | n-Nitrosodimethylamine       | 40.000 | 45.508 | -13.8 | 113   | 0.00     |
| 5 S  | 2-Fluorophenol               | 80.000 | 78.352 | 2.1   | 98    | 0.00     |
| 6    | Aniline                      | 40.000 | 39.021 | 2.4   | 98    | 0.00     |
| 7 S  | Phenol-d6                    | 80.000 | 78.611 | 1.7   | 101   | 0.00     |
| 8    | 2-Chlorophenol               | 40.000 | 38.945 | 2.6   | 98    | 0.00     |
| 9    | Benzaldehyde                 | 40.000 | 48.773 | -21.9 | 114   | 0.00     |
| 10 C | Phenol                       | 40.000 | 38.524 | 3.7   | 98    | 0.00     |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 40.508 | -1.3  | 102   | 0.00     |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 38.609 | 3.5   | 98    | 0.00     |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 38.096 | 4.8   | 97    | 0.00     |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 38.293 | 4.3   | 98    | 0.00     |
| 15   | Benzyl Alcohol               | 40.000 | 39.378 | 1.6   | 100   | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 38.079 | 4.8   | 95    | 0.00     |
| 17   | 2-Methylphenol               | 40.000 | 38.842 | 2.9   | 99    | 0.00     |
| 18   | Hexachloroethane             | 40.000 | 39.678 | 0.8   | 100   | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 39.780 | 0.5   | 105   | 0.00     |
| 20   | 3+4-Methylphenols            | 40.000 | 37.254 | 6.9   | 101   | 0.00     |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0   | 105   | 0.00     |
| 22   | Acetophenone                 | 40.000 | 37.508 | 6.2   | 101   | 0.00     |
| 23 S | Nitrobenzene-d5              | 80.000 | 78.322 | 2.1   | 104   | 0.00     |
| 24   | Nitrobenzene                 | 40.000 | 39.391 | 1.5   | 103   | 0.00     |
| 25   | Isophorone                   | 40.000 | 38.762 | 3.1   | 104   | 0.00     |
| 26 C | 2-Nitrophenol                | 40.000 | 40.521 | -1.3  | 101   | 0.00     |
| 27   | 2,4-Dimethylphenol           | 40.000 | 36.997 | 7.5   | 98    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 38.681 | 3.3   | 102   | 0.00     |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 39.574 | 1.1   | 104   | 0.00     |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 37.271 | 6.8   | 98    | 0.00     |
| 31   | Naphthalene                  | 40.000 | 37.093 | 7.3   | 99    | 0.00     |
| 32   | Benzoic acid                 | 40.000 | 37.964 | 5.1   | 101   | 0.00     |
| 33   | 4-Chloroaniline              | 40.000 | 38.842 | 2.9   | 102   | 0.00     |
| 34 C | Hexachlorobutadiene          | 40.000 | 37.481 | 6.3   | 100   | 0.00     |
| 35   | Caprolactam                  | 40.000 | 40.644 | -1.6  | 104   | 0.00     |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 39.406 | 1.5   | 103   | 0.00     |
| 37   | 2-Methylnaphthalene          | 40.000 | 37.378 | 6.6   | 101   | 0.00     |
| 38 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0   | 107   | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 37.151 | 7.1   | 100   | 0.00     |
| 40 P | Hexachlorocyclopentadiene    | 40.000 | 39.088 | 2.3   | 110   | 0.00     |
| 41 S | 2,4,6-Tribromophenol         | 80.000 | 71.978 | 10.0  | 93    | 0.00     |
| 42 C | 2,4,6-Trichlorophenol        | 40.000 | 37.042 | 7.4   | 97    | 0.00     |
| 43   | 2,4,5-Trichlorophenol        | 40.000 | 36.930 | 7.7   | 97    | 0.00     |
| 44 S | 2-Fluorobiphenyl             | 80.000 | 69.786 | 12.8  | 97    | 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 | 36.351 | 9.1  | 100   | 0.00     |
| 46   | 2-Chloronaphthalene        | 40.000 | 36.734 | 8.2  | 100   | 0.00     |
| 47   | 2-Nitroaniline             | 40.000 | 42.042 | -5.1 | 110   | 0.00     |
| 48   | Acenaphthylene             | 40.000 | 36.102 | 9.7  | 98    | 0.00     |
| 49   | Dimethylphthalate          | 40.000 | 36.135 | 9.7  | 99    | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 36.715 | 8.2  | 97    | 0.00     |
| 51 C | Acenaphthene               | 40.000 | 35.945 | 10.1 | 99    | 0.00     |
| 52   | 3-Nitroaniline             | 40.000 | 38.165 | 4.6  | 101   | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 35.913 | 10.2 | 98    | 0.00     |
| 54   | Dibenzofuran               | 40.000 | 36.218 | 9.5  | 95    | 0.00     |
| 55 P | 4-Nitrophenol              | 40.000 | 35.837 | 10.4 | 93    | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 35.715 | 10.7 | 92    | 0.00     |
| 57   | Fluorene                   | 40.000 | 35.420 | 11.4 | 102   | 0.00     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 35.583 | 11.0 | 94    | 0.00     |
| 59   | Diethylphthalate           | 40.000 | 36.610 | 8.5  | 100   | 0.00     |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 36.894 | 7.8  | 100   | 0.00     |
| 61   | 4-Nitroaniline             | 40.000 | 38.426 | 3.9  | 100   | 0.00     |
| 62   | Azobenzene                 | 40.000 | 38.140 | 4.6  | 103   | 0.00     |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0  | 106   | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 38.798 | 3.0  | 103   | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 36.849 | 7.9  | 100   | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 36.354 | 9.1  | 96    | 0.00     |
| 67   | Hexachlorobenzene          | 40.000 | 36.215 | 9.5  | 98    | 0.00     |
| 68   | Atrazine                   | 40.000 | 36.520 | 8.7  | 99    | 0.00     |
| 69 C | Pentachlorophenol          | 40.000 | 36.261 | 9.3  | 93    | 0.00     |
| 70   | Phenanthrene               | 40.000 | 35.663 | 10.8 | 98    | 0.00     |
| 71   | Anthracene                 | 40.000 | 36.018 | 10.0 | 98    | 0.00     |
| 72   | Carbazole                  | 40.000 | 35.983 | 10.0 | 98    | 0.00     |
| 73   | Di-n-butylphthalate        | 40.000 | 36.458 | 8.9  | 99    | 0.00     |
| 74 C | Fluoranthene               | 40.000 | 35.542 | 11.1 | 97    | 0.00     |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0  | 98    | 0.00     |
| 76   | Benzidine                  | 40.000 | 41.909 | -4.8 | 108   | 0.00     |
| 77   | Pyrene                     | 40.000 | 38.907 | 2.7  | 97    | 0.00     |
| 78 S | Terphenyl-d14              | 80.000 | 73.388 | 8.3  | 95    | 0.00     |
| 79   | Butylbenzylphthalate       | 40.000 | 41.309 | -3.3 | 100   | 0.00     |
| 80   | Benzo(a)anthracene         | 40.000 | 38.293 | 4.3  | 94    | 0.00     |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 35.741 | 10.6 | 86    | 0.00     |
| 82   | Chrysene                   | 40.000 | 37.866 | 5.3  | 94    | 0.00     |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 37.065 | 7.3  | 90    | 0.00     |
| 84 c | Di-n-octyl phthalate       | 40.000 | 38.752 | 3.1  | 95    | 0.00     |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 36.072 | 9.8  | 93    | 0.00     |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0  | 97    | 0.00     |
| 87   | Benzo(b)fluoranthene       | 40.000 | 37.339 | 6.7  | 92    | 0.00     |

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|      | Compound               | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 36.756 | 8.1  | 88    | 0.00     |
| 89 C | Benzo(a)pyrene         | 40.000 | 36.971 | 7.6  | 90    | 0.00     |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 36.860 | 7.9  | 91    | 0.00     |
| 91   | Benzo(a,h,i)perylene   | 40.000 | 38.473 | 3.8  | 95    | 0.00     |

(#) = Out of Range

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