

Data Path : Z:\HPCHEM1\BNA\_F\Data\BF031816\  
 Data File : BF085615.D  
 Acq On : 20 Mar 2016 13:07  
 Operator : UM/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Mar 21 05:55:47 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF031816.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 18 23:31:39 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   | 116   | 0.00     |
| 2    | 1,4-Dioxane                 | 40.000 | 39.398 | 1.5   | 110   | -0.01    |
| 3    | Pyridine                    | 40.000 | 40.960 | -2.4  | 117   | -0.01    |
| 4    | n-Nitrosodimethylamine      | 40.000 | 40.746 | -1.9  | 119   | 0.00     |
| 5 S  | 2-Fluorophenol              | 80.000 | 81.731 | -2.2  | 112   | 0.00     |
| 6    | Aniline                     | 40.000 | 38.954 | 2.6   | 112   | 0.00     |
| 7 S  | Phenol-d6                   | 80.000 | 73.726 | 7.8   | 103   | 0.00     |
| 8    | 2-Chlorophenol              | 40.000 | 39.164 | 2.1   | 111   | 0.00     |
| 9    | Benzaldehyde                | 40.000 | 41.602 | -4.0  | 119   | 0.00     |
| 10 C | Phenol                      | 40.000 | 34.021 | 14.9  | 89    | 0.00     |
| 11   | bis(2-Chloroethyl)ether     | 40.000 | 38.939 | 2.7   | 107   | 0.00     |
| 12   | 1,3-Dichlorobenzene         | 40.000 | 39.866 | 0.3   | 116   | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 40.000 | 36.713 | 8.2   | 111   | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 40.000 | 41.158 | -2.9  | 111   | 0.00     |
| 15   | Benzyl Alcohol              | 40.000 | 39.472 | 1.3   | 116   | 0.01     |
| 16   | 2,2'-oxybis(1-Chloropropane | 40.000 | 40.043 | -0.1  | 111   | 0.00     |
| 17   | 2-Methylphenol              | 40.000 | 40.902 | -2.3  | 118   | 0.01     |
| 18   | Hexachloroethane            | 40.000 | 36.321 | 9.2   | 104   | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine  | 40.000 | 40.009 | -0.0  | 111   | 0.00     |
| 20   | 3+4-Methylphenols           | 40.000 | 34.105 | 14.7  | 104   | 0.00     |
| 21 I | Naphthalene-d8              | 20.000 | 20.000 | 0.0   | 115   | 0.00     |
| 22   | Acetophenone                | 40.000 | 37.223 | 6.9   | 115   | 0.00     |
| 23 S | Nitrobenzene-d5             | 80.000 | 81.513 | -1.9  | 110   | 0.00     |
| 24   | Nitrobenzene                | 40.000 | 36.566 | 8.6   | 110   | 0.00     |
| 25   | Isophorone                  | 40.000 | 40.130 | -0.3  | 117   | 0.00     |
| 26 C | 2-Nitrophenol               | 40.000 | 38.306 | 4.2   | 98    | 0.00     |
| 27   | 2,4-Dimethylphenol          | 40.000 | 38.109 | 4.7   | 115   | 0.01     |
| 28   | bis(2-Chloroethoxy)methane  | 40.000 | 43.154 | -7.9  | 116   | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 40.000 | 37.285 | 6.8   | 103   | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 40.000 | 38.826 | 2.9   | 115   | 0.00     |
| 31   | Naphthalene                 | 40.000 | 36.423 | 8.9   | 111   | 0.00     |
| 32   | Benzoic acid                | 40.000 | 26.489 | 33.8# | 74    | 0.00     |
| 33   | 4-Chloroaniline             | 40.000 | 42.165 | -5.4  | 113   | 0.00     |
| 34 C | Hexachlorobutadiene         | 40.000 | 41.363 | -3.4  | 115   | 0.00     |
| 35   | Caprolactam                 | 40.000 | 43.485 | -8.7  | 122   | 0.01     |
| 36 C | 4-Chloro-3-methylphenol     | 40.000 | 36.279 | 9.3   | 100   | 0.00     |
| 37   | 2-Methylnaphthalene         | 40.000 | 41.092 | -2.7  | 111   | 0.00     |
| 38 I | Acenaphthene-d10            | 20.000 | 20.000 | 0.0   | 109   | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 40.000 | 36.935 | 7.7   | 113   | 0.00     |
| 40 P | Hexachlorocyclopentadiene   | 40.000 | 16.877 | 57.8# | 45    | 0.00     |
| 41 S | 2,4,6-Tribromophenol        | 80.000 | 72.285 | 9.6   | 100   | 0.00     |
| 42 C | 2,4,6-Trichlorophenol       | 40.000 | 37.078 | 7.3   | 106   | 0.00     |
| 43   | 2,4,5-Trichlorophenol       | 40.000 | 38.909 | 2.7   | 107   | 0.00     |
| 44 S | 2-Fluorobiphenyl            | 80.000 | 89.812 | -12.3 | 112   | 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 | 37.068 | 7.3   | 107   | 0.00     |
| 46   | 2-Chloronaphthalene        | 40.000 | 40.602 | -1.5  | 111   | 0.00     |
| 47   | 2-Nitroaniline             | 40.000 | 41.246 | -3.1  | 106   | 0.00     |
| 48   | Acenaphthylene             | 40.000 | 40.353 | -0.9  | 108   | 0.00     |
| 49   | Dimethylphthalate          | 40.000 | 38.588 | 3.5   | 110   | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 39.292 | 1.8   | 117   | 0.00     |
| 51 C | Acenaphthene               | 40.000 | 36.231 | 9.4   | 99    | 0.00     |
| 52   | 3-Nitroaniline             | 40.000 | 34.993 | 12.5  | 104   | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 8.400  | 79.0# | 24    | 0.01     |
| 54   | Dibenzofuran               | 40.000 | 41.002 | -2.5  | 111   | 0.00     |
| 55 P | 4-Nitrophenol              | 40.000 | 28.522 | 28.7# | 75    | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 42.227 | -5.6  | 108   | 0.00     |
| 57   | Fluorene                   | 40.000 | 39.648 | 0.9   | 105   | 0.00     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 32.570 | 18.6  | 93    | 0.00     |
| 59   | Diethylphthalate           | 40.000 | 40.858 | -2.1  | 116   | 0.00     |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 37.346 | 6.6   | 113   | 0.00     |
| 61   | 4-Nitroaniline             | 40.000 | 40.570 | -1.4  | 103   | 0.00     |
| 62   | Azobenzene                 | 40.000 | 38.576 | 3.6   | 107   | 0.00     |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0   | 99    | -0.01    |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 13.545 | 66.1# | 33    | 0.01     |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 44.397 | -11.0 | 106   | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 46.901 | -17.3 | 112   | 0.00     |
| 67   | Hexachlorobenzene          | 40.000 | 45.448 | -13.6 | 105   | 0.00     |
| 68   | Atrazine                   | 40.000 | 44.010 | -10.0 | 101   | 0.00     |
| 69 C | Pentachlorophenol          | 40.000 | 32.985 | 17.5  | 77    | 0.00     |
| 70   | Phenanthrene               | 40.000 | 41.668 | -4.2  | 99    | 0.00     |
| 71   | Anthracene                 | 40.000 | 35.292 | 11.8  | 97    | 0.00     |
| 72   | Carbazole                  | 40.000 | 40.259 | -0.6  | 96    | 0.00     |
| 73   | Di-n-butylphthalate        | 40.000 | 46.011 | -15.0 | 110   | 0.00     |
| 74 C | Fluoranthene               | 40.000 | 33.198 | 17.0  | 86    | 0.00     |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0   | 80    | 0.00     |
| 76   | Benzidine                  | 40.000 | 42.681 | -6.7  | 84    | 0.00     |
| 77   | Pyrene                     | 40.000 | 39.723 | 0.7   | 77    | -0.01    |
| 78 S | Terphenyl-d14              | 80.000 | 83.629 | -4.5  | 92    | 0.00     |
| 79   | Butylbenzylphthalate       | 40.000 | 42.729 | -6.8  | 84    | -0.01    |
| 80   | Benzo(a)anthracene         | 40.000 | 38.582 | 3.5   | 79    | 0.00     |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 42.103 | -5.3  | 86    | 0.00     |
| 82   | Chrysene                   | 40.000 | 38.574 | 3.6   | 71    | -0.01    |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 45.428 | -13.6 | 92    | 0.00     |
| 84 c | Di-n-octyl phthalate       | 40.000 | 47.456 | -18.6 | 92    | 0.00     |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 44.350 | -10.9 | 95    | 0.00     |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0   | 91    | 0.00     |
| 87   | Benzo(b)fluoranthene       | 40.000 | 34.814 | 13.0  | 88    | 0.00     |

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|      | Compound               | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|------------------------|--------|--------|-------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 45.391 | -13.5 | 87    | 0.00     |
| 89 C | Benzo(a)pyrene         | 40.000 | 40.006 | -0.0  | 90    | 0.00     |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 41.231 | -3.1  | 99    | 0.00     |
| 91   | Benzo(g,h,i)perylene   | 40.000 | 38.490 | 3.8   | 93    | 0.01     |

(#) = Out of Range

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