

Data Path : Z:\svoasrv\HPCHEM1\BNA F\Data\BF092418\  
 Data File : BF109255.D  
 Acq On : 24 Sep 2018 9:48  
 Operator : JU/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Sep 24 13:57:04 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF092218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Sep 22 13:32:18 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  | 111   | 0.00     |
| 2    | 1,4-Dioxane                  | 40.000 | 38.589 | 3.5  | 108   | 0.00     |
| 3    | Pyridine                     | 40.000 | 42.042 | -5.1 | 111   | 0.00     |
| 4    | n-Nitrosodimethylamine       | 40.000 | 39.450 | 1.4  | 108   | -0.02    |
| 5 S  | 2-Fluorophenol               | 80.000 | 78.959 | 1.3  | 112   | 0.00     |
| 6    | Aniline                      | 40.000 | 39.576 | 1.1  | 111   | -0.01    |
| 7 S  | Phenol-d6                    | 80.000 | 79.464 | 0.7  | 113   | 0.00     |
| 8    | 2-Chlorophenol               | 40.000 | 39.694 | 0.8  | 113   | 0.00     |
| 9    | Benzaldehyde                 | 40.000 | 38.633 | 3.4  | 111   | 0.00     |
| 10 C | Phenol                       | 40.000 | 38.967 | 2.6  | 111   | -0.01    |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 39.068 | 2.3  | 112   | -0.01    |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 39.835 | 0.4  | 113   | 0.00     |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 39.728 | 0.7  | 113   | 0.00     |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 39.912 | 0.2  | 113   | 0.00     |
| 15   | Benzyl Alcohol               | 40.000 | 41.188 | -3.0 | 115   | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 38.826 | 2.9  | 111   | 0.00     |
| 17   | 2-Methylphenol               | 40.000 | 39.665 | 0.8  | 114   | 0.00     |
| 18   | Hexachloroethane             | 40.000 | 39.311 | 1.7  | 111   | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 39.984 | 0.0  | 115   | -0.01    |
| 20   | 3+4-Methylphenols            | 40.000 | 39.835 | 0.4  | 115   | -0.01    |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0  | 116   | 0.00     |
| 22   | Acetophenone                 | 40.000 | 38.586 | 3.5  | 115   | 0.00     |
| 23 S | Nitrobenzene-d5              | 80.000 | 77.974 | 2.5  | 109   | 0.00     |
| 24   | Nitrobenzene                 | 40.000 | 38.547 | 3.6  | 111   | 0.00     |
| 25   | Isophorone                   | 40.000 | 39.027 | 2.4  | 114   | -0.01    |
| 26 C | 2-Nitrophenol                | 40.000 | 37.505 | 6.2  | 104   | 0.00     |
| 27   | 2,4-Dimethylphenol           | 40.000 | 39.839 | 0.4  | 114   | 0.00     |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 39.183 | 2.0  | 116   | 0.00     |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 40.558 | -1.4 | 116   | 0.00     |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 39.094 | 2.3  | 115   | 0.00     |
| 31   | Naphthalene                  | 40.000 | 39.013 | 2.5  | 114   | 0.00     |
| 32   | Benzoic acid                 | 40.000 | 35.854 | 10.4 | 104   | -0.04    |
| 33   | 4-Chloroaniline              | 40.000 | 39.901 | 0.2  | 118   | 0.00     |
| 34 C | Hexachlorobutadiene          | 40.000 | 40.243 | -0.6 | 117   | 0.00     |
| 35   | Caprolactam                  | 40.000 | 41.601 | -4.0 | 118   | -0.02    |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 40.609 | -1.5 | 117   | -0.01    |
| 37   | 2-Methylnaphthalene          | 40.000 | 39.459 | 1.4  | 117   | 0.00     |
| 38 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0  | 118   | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 39.783 | 0.5  | 118   | 0.00     |
| 40 P | Hexachlorocyclopentadiene    | 40.000 | 35.699 | 10.8 | 101   | 0.00     |
| 41 S | 2,4,6-Tribromophenol         | 80.000 | 83.306 | -4.1 | 121   | 0.00     |
| 42 C | 2,4,6-Trichlorophenol        | 40.000 | 40.596 | -1.5 | 117   | 0.00     |
| 43   | 2,4,5-Trichlorophenol        | 40.000 | 40.631 | -1.6 | 116   | 0.00     |
| 44 S | 2-Fluorobiphenyl             | 80.000 | 79.492 | 0.6  | 118   | 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 | 38.612 | 3.5  | 115   | 0.00     |
| 46   | 2-Chloronaphthalene        | 40.000 | 39.095 | 2.3  | 118   | 0.00     |
| 47   | 2-Nitroaniline             | 40.000 | 38.565 | 3.6  | 109   | 0.00     |
| 48   | Acenaphthylene             | 40.000 | 39.030 | 2.4  | 116   | 0.00     |
| 49   | Dimethylphthalate          | 40.000 | 39.523 | 1.2  | 119   | -0.01    |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 39.840 | 0.4  | 109   | 0.00     |
| 51 C | Acenaphthene               | 40.000 | 39.629 | 0.9  | 118   | 0.00     |
| 52   | 3-Nitroaniline             | 40.000 | 42.241 | -5.6 | 117   | -0.01    |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 32.698 | 18.3 | 94    | 0.00     |
| 54   | Dibenzofuran               | 40.000 | 39.643 | 0.9  | 120   | 0.00     |
| 55 P | 4-Nitrophenol              | 40.000 | 38.479 | 3.8  | 111   | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 41.103 | -2.8 | 116   | -0.01    |
| 57   | Fluorene                   | 40.000 | 39.059 | 2.4  | 120   | 0.00     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 41.925 | -4.8 | 121   | 0.00     |
| 59   | Diethylphthalate           | 40.000 | 39.128 | 2.2  | 116   | 0.00     |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 39.484 | 1.3  | 122   | 0.00     |
| 61   | 4-Nitroaniline             | 40.000 | 41.947 | -4.9 | 117   | -0.02    |
| 62   | Azobenzene                 | 40.000 | 38.310 | 4.2  | 114   | 0.00     |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0  | 118   | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 36.343 | 9.1  | 109   | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 39.433 | 1.4  | 119   | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 40.282 | -0.7 | 121   | 0.00     |
| 67   | Hexachlorobenzene          | 40.000 | 40.478 | -1.2 | 123   | 0.00     |
| 68   | Atrazine                   | 40.000 | 41.290 | -3.2 | 122   | 0.00     |
| 69 C | Pentachlorophenol          | 40.000 | 41.069 | -2.7 | 117   | 0.00     |
| 70   | Phenanthrene               | 40.000 | 38.969 | 2.6  | 119   | 0.00     |
| 71   | Anthracene                 | 40.000 | 39.085 | 2.3  | 118   | 0.00     |
| 72   | Carbazole                  | 40.000 | 38.534 | 3.7  | 117   | 0.00     |
| 73   | Di-n-butylphthalate        | 40.000 | 39.304 | 1.7  | 117   | 0.00     |
| 74 C | Fluoranthene               | 40.000 | 38.615 | 3.5  | 117   | 0.00     |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0  | 112   | 0.00     |
| 76   | Benzidine                  | 40.000 | 35.708 | 10.7 | 96    | 0.00     |
| 77   | Pyrene                     | 40.000 | 41.084 | -2.7 | 114   | 0.00     |
| 78 S | Terphenyl-d14              | 80.000 | 82.442 | -3.1 | 118   | 0.00     |
| 79   | Butylbenzylphthalate       | 40.000 | 41.970 | -4.9 | 114   | 0.00     |
| 80   | Benzo(a)anthracene         | 40.000 | 38.375 | 4.1  | 108   | 0.00     |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 39.274 | 1.8  | 105   | 0.00     |
| 82   | Chrysene                   | 40.000 | 38.635 | 3.4  | 107   | 0.00     |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 39.268 | 1.8  | 107   | 0.00     |
| 84 c | Di-n-octyl phthalate       | 40.000 | 39.138 | 2.2  | 104   | 0.00     |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 37.156 | 7.1  | 109   | 0.00     |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0  | 99    | 0.00     |
| 87   | Benzo(b)fluoranthene       | 40.000 | 42.854 | -7.1 | 106   | 0.00     |

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|      | Compound               | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 37.726 | 5.7  | 95    | 0.00     |
| 89 C | Benzo(a)pyrene         | 40.000 | 39.640 | 0.9  | 99    | 0.00     |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 41.807 | -4.5 | 110   | 0.00     |
| 91   | Benzo(a,h,i)perylene   | 40.000 | 42.823 | -7.1 | 115   | 0.00     |

(#) = Out of Range

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