

Data Path : Z:\svoasrv\HPCHEM1\BNA F\Data\BF121018\  
 Data File : BF111244.D  
 Acq On : 10 Dec 2018 16:12  
 Operator : JU/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Dec 11 04:36:08 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120818.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 10 01:15:27 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   | 119   | 0.00     |
| 2    | 1,4-Dioxane                  | 40.000 | 37.551 | 6.1   | 115   | 0.01     |
| 3    | Pyridine                     | 40.000 | 38.720 | 3.2   | 117   | 0.00     |
| 4    | n-Nitrosodimethylamine       | 40.000 | 38.690 | 3.3   | 117   | 0.01     |
| 5 S  | 2-Fluorophenol               | 80.000 | 74.486 | 6.9   | 112   | 0.00     |
| 6    | Aniline                      | 40.000 | 39.735 | 0.7   | 117   | 0.00     |
| 7 S  | Phenol-d6                    | 80.000 | 77.436 | 3.2   | 114   | 0.00     |
| 8    | 2-Chlorophenol               | 40.000 | 38.958 | 2.6   | 116   | 0.00     |
| 9    | Benzaldehyde                 | 40.000 | 40.427 | -1.1  | 119   | 0.00     |
| 10 C | Phenol                       | 40.000 | 38.692 | 3.3   | 115   | 0.00     |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 38.925 | 2.7   | 115   | 0.00     |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 38.393 | 4.0   | 116   | 0.00     |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 38.179 | 4.6   | 114   | 0.00     |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 37.470 | 6.3   | 114   | 0.00     |
| 15   | Benzyl Alcohol               | 40.000 | 38.756 | 3.1   | 117   | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 38.943 | 2.6   | 115   | 0.00     |
| 17   | 2-Methylphenol               | 40.000 | 39.691 | 0.8   | 117   | 0.00     |
| 18   | Hexachloroethane             | 40.000 | 38.674 | 3.3   | 116   | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 39.086 | 2.3   | 120   | 0.00     |
| 20   | 3+4-Methylphenols            | 40.000 | 37.810 | 5.5   | 116   | 0.00     |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0   | 121   | 0.00     |
| 22   | Acetophenone                 | 40.000 | 37.691 | 5.8   | 117   | 0.00     |
| 23 S | Nitrobenzene-d5              | 80.000 | 77.459 | 3.2   | 118   | 0.00     |
| 24   | Nitrobenzene                 | 40.000 | 39.126 | 2.2   | 117   | 0.00     |
| 25   | Isophorone                   | 40.000 | 39.631 | 0.9   | 121   | 0.00     |
| 26 C | 2-Nitrophenol                | 40.000 | 40.791 | -2.0  | 118   | 0.00     |
| 27   | 2,4-Dimethylphenol           | 40.000 | 39.035 | 2.4   | 119   | 0.00     |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 38.609 | 3.5   | 119   | 0.00     |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 39.157 | 2.1   | 121   | 0.00     |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 39.043 | 2.4   | 118   | 0.00     |
| 31   | Naphthalene                  | 40.000 | 38.610 | 3.5   | 115   | 0.00     |
| 32   | Benzoic acid                 | 40.000 | 45.147 | -12.9 | 125   | 0.00     |
| 33   | 4-Chloroaniline              | 40.000 | 39.100 | 2.2   | 119   | 0.00     |
| 34 C | Hexachlorobutadiene          | 40.000 | 38.854 | 2.9   | 120   | 0.00     |
| 35   | Caprolactam                  | 40.000 | 41.884 | -4.7  | 127   | 0.00     |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 40.513 | -1.3  | 121   | 0.00     |
| 37   | 2-Methylnaphthalene          | 40.000 | 38.926 | 2.7   | 118   | 0.00     |
| 38   | 1-Methylnaphthalene          | 40.000 | 38.647 | 3.4   | 119   | 0.00     |
| 39 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0   | 125   | 0.00     |
| 40   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 36.188 | 9.5   | 119   | 0.00     |
| 41 P | Hexachlorocyclopentadiene    | 40.000 | 35.390 | 11.5  | 111   | 0.00     |
| 42 S | 2,4,6-Tribromophenol         | 80.000 | 75.519 | 5.6   | 120   | 0.00     |
| 43 C | 2,4,6-Trichlorophenol        | 40.000 | 37.377 | 6.6   | 119   | 0.00     |
| 44   | 2,4,5-Trichlorophenol        | 40.000 | 37.634 | 5.9   | 120   | 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 S | 2-Fluorobiphenyl           | 80.000 | 69.025 | 13.7   | 116   | 0.00     |
| 46   | 1,1'-Biphenyl              | 40.000 | 36.155 | 9.6    | 118   | 0.00     |
| 47   | 2-Chloronaphthalene        | 40.000 | 36.311 | 9.2    | 119   | 0.00     |
| 48   | 2-Nitroaniline             | 40.000 | 38.814 | 3.0    | 121   | 0.00     |
| 49   | Acenaphthylene             | 40.000 | 35.337 | 11.7   | 116   | 0.00     |
| 50   | Dimethylphthalate          | 40.000 | 35.552 | 11.1   | 120   | 0.00     |
| 51   | 2,6-Dinitrotoluene         | 40.000 | 39.647 | 0.9    | 123   | 0.00     |
| 52 C | Acenaphthene               | 40.000 | 37.184 | 7.0    | 119   | 0.00     |
| 53   | 3-Nitroaniline             | 40.000 | 39.176 | 2.1    | 121   | 0.00     |
| 54 P | 2,4-Dinitrophenol          | 40.000 | 37.776 | 5.6    | 114   | 0.00     |
| 55   | Dibenzofuran               | 40.000 | 37.947 | 5.1    | 117   | 0.00     |
| 56 P | 4-Nitrophenol              | 40.000 | 39.499 | 1.3    | 119   | 0.00     |
| 57   | 2,4-Dinitrotoluene         | 40.000 | 41.230 | -3.1   | 122   | 0.00     |
| 58   | Fluorene                   | 40.000 | 34.067 | 14.8   | 118   | 0.00     |
| 59   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 38.182 | 4.5    | 120   | 0.00     |
| 60   | Diethylphthalate           | 40.000 | 37.835 | 5.4    | 120   | 0.00     |
| 61   | 4-Chlorophenyl-phenylether | 40.000 | 34.981 | 12.5   | 120   | 0.00     |
| 62   | 4-Nitroaniline             | 40.000 | 39.876 | 0.3    | 123   | 0.00     |
| 63   | Azobenzene                 | 40.000 | 37.049 | 7.4    | 118   | 0.00     |
| 64 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0    | 123   | 0.00     |
| 65   | 4,6-Dinitro-2-methylphenol | 40.000 | 37.805 | 5.5    | 115   | 0.00     |
| 66 c | n-Nitrosodiphenylamine     | 40.000 | 38.875 | 2.8    | 120   | 0.00     |
| 67   | 4-Bromophenyl-phenylether  | 40.000 | 38.969 | 2.6    | 122   | 0.00     |
| 68   | Hexachlorobenzene          | 40.000 | 38.864 | 2.8    | 121   | 0.00     |
| 69   | Atrazine                   | 40.000 | 38.654 | 3.4    | 121   | 0.00     |
| 70 C | Pentachlorophenol          | 40.000 | 39.985 | 0.0    | 120   | 0.00     |
| 71   | Phenanthrene               | 40.000 | 36.144 | 9.6    | 116   | 0.00     |
| 72   | Anthracene                 | 40.000 | 35.532 | 11.2   | 118   | 0.00     |
| 73   | Carbazole                  | 40.000 | 34.887 | 12.8   | 116   | 0.00     |
| 74   | Di-n-butylphthalate        | 40.000 | 37.840 | 5.4    | 113   | 0.00     |
| 75 C | Fluoranthene               | 40.000 | 38.718 | 3.2    | 112   | 0.00     |
| 76 I | Chrysene-d12               | 20.000 | 20.000 | 0.0    | 109   | 0.00     |
| 77   | Benzidine                  | 40.000 | 53.652 | -34.1# | 140   | 0.00     |
| 78   | Pyrene                     | 40.000 | 41.889 | -4.7   | 113   | 0.00     |
| 79 S | Terphenyl-d14              | 80.000 | 79.146 | 1.1    | 110   | 0.00     |
| 80   | Butylbenzylphthalate       | 40.000 | 40.042 | -0.1   | 109   | 0.00     |
| 81   | Benzo(a)anthracene         | 40.000 | 37.586 | 6.0    | 104   | 0.00     |
| 82   | 3,3'-Dichlorobenzidine     | 40.000 | 38.317 | 4.2    | 102   | 0.00     |
| 83   | Chrysene                   | 40.000 | 37.991 | 5.0    | 104   | 0.00     |
| 84   | Bis(2-ethylhexyl)phthalate | 40.000 | 37.462 | 6.3    | 104   | 0.00     |
| 85 c | Di-n-octyl phthalate       | 40.000 | 36.812 | 8.0    | 99    | 0.01     |
| 86   | Indeno(1,2,3-cd)pyrene     | 40.000 | 40.795 | -2.0   | 111   | 0.01     |
| 87 I | Perylene-d12               | 20.000 | 20.000 | 0.0    | 107   | 0.01     |

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|      | Compound               | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|------------------------|--------|--------|-------|-------|----------|
| 88   | Benzo(b)fluoranthene   | 40.000 | 37.743 | 5.6   | 96    | 0.00     |
| 89   | Benzo(k)fluoranthene   | 40.000 | 40.608 | -1.5  | 107   | 0.00     |
| 90 C | Benzo(a)pyrene         | 40.000 | 38.938 | 2.7   | 102   | 0.01     |
| 91   | Dibenzo(a,h)anthracene | 40.000 | 44.855 | -12.1 | 110   | 0.01     |
| 92   | Benzo(q,h,i)perylene   | 40.000 | 46.190 | -15.5 | 113   | 0.02     |

(#) = Out of Range

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