

Data Path : Z:\svoasrv\HPCHEM1\BNA F\Data\BF081319\  
 Data File : BF116220.D  
 Acq On : 13 Aug 2019 9:56  
 Operator : HP/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Aug 13 23:15:03 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 07 11:13:18 2019  
 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 | 40.387 | -1.0 | 114   | -0.04    |
| 3    | Pyridine                    | 40.000 | 39.318 | 1.7  | 110   | -0.03    |
| 4    | n-Nitrosodimethylamine      | 40.000 | 39.645 | 0.9  | 111   | -0.04    |
| 5 S  | 2-Fluorophenol              | 80.000 | 86.637 | -8.3 | 118   | -0.01    |
| 6    | Aniline                     | 40.000 | 39.574 | 1.1  | 108   | -0.01    |
| 7 S  | Phenol-d6                   | 80.000 | 83.605 | -4.5 | 115   | 0.00     |
| 8    | 2-Chlorophenol              | 40.000 | 43.232 | -8.1 | 118   | -0.01    |
| 9    | Benzaldehyde                | 40.000 | 38.781 | 3.0  | 106   | 0.00     |
| 10 C | Phenol                      | 40.000 | 40.690 | -1.7 | 112   | 0.00     |
| 11   | bis(2-Chloroethyl)ether     | 40.000 | 43.350 | -8.4 | 119   | -0.01    |
| 12   | 1,3-Dichlorobenzene         | 40.000 | 41.436 | -3.6 | 114   | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 40.000 | 41.691 | -4.2 | 114   | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 40.000 | 41.268 | -3.2 | 111   | -0.01    |
| 15   | Benzyl Alcohol              | 40.000 | 40.896 | -2.2 | 110   | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 40.000 | 41.713 | -4.3 | 113   | -0.01    |
| 17   | 2-Methylphenol              | 40.000 | 42.331 | -5.8 | 118   | 0.00     |
| 18   | Hexachloroethane            | 40.000 | 42.471 | -6.2 | 116   | -0.01    |
| 19 P | n-Nitroso-di-n-propylamine  | 40.000 | 42.069 | -5.2 | 117   | -0.01    |
| 20   | 3+4-Methylphenols           | 40.000 | 42.143 | -5.4 | 113   | 0.00     |
| 21 I | Naphthalene-d8              | 20.000 | 20.000 | 0.0  | 115   | -0.01    |
| 22   | Acetophenone                | 40.000 | 40.382 | -1.0 | 115   | -0.01    |
| 23 S | Nitrobenzene-d5             | 80.000 | 80.847 | -1.1 | 115   | 0.00     |
| 24   | Nitrobenzene                | 40.000 | 41.306 | -3.3 | 118   | 0.00     |
| 25   | Isophorone                  | 40.000 | 42.451 | -6.1 | 122   | -0.01    |
| 26 C | 2-Nitrophenol               | 40.000 | 43.906 | -9.8 | 124   | 0.00     |
| 27   | 2,4-Dimethylphenol          | 40.000 | 40.406 | -1.0 | 115   | -0.01    |
| 28   | bis(2-Chloroethoxy)methane  | 40.000 | 42.901 | -7.3 | 123   | -0.01    |
| 29 C | 2,4-Dichlorophenol          | 40.000 | 42.791 | -7.0 | 120   | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 40.000 | 41.244 | -3.1 | 117   | 0.00     |
| 31   | Naphthalene                 | 40.000 | 41.244 | -3.1 | 115   | -0.01    |
| 32   | Benzoic acid                | 40.000 | 38.054 | 4.9  | 119   | 0.00     |
| 33   | 4-Chloroaniline             | 40.000 | 42.111 | -5.3 | 119   | 0.00     |
| 34 C | Hexachlorobutadiene         | 40.000 | 40.911 | -2.3 | 116   | -0.01    |
| 35   | Caprolactam                 | 40.000 | 41.922 | -4.8 | 119   | 0.00     |
| 36 C | 4-Chloro-3-methylphenol     | 40.000 | 43.176 | -7.9 | 123   | 0.00     |
| 37   | 2-Methylnaphthalene         | 40.000 | 41.313 | -3.3 | 116   | 0.00     |
| 38   | 1-Methylnaphthalene         | 40.000 | 41.207 | -3.0 | 116   | 0.00     |
| 39 I | Acenaphthene-d10            | 20.000 | 20.000 | 0.0  | 114   | -0.01    |
| 40   | 1,2,4,5-Tetrachlorobenzene  | 40.000 | 41.590 | -4.0 | 117   | 0.00     |
| 41 P | Hexachlorocyclopentadiene   | 40.000 | 33.684 | 15.8 | 95    | 0.00     |
| 42 S | 2,4,6-Tribromophenol        | 80.000 | 80.281 | -0.4 | 113   | 0.00     |
| 43 C | 2,4,6-Trichlorophenol       | 40.000 | 39.563 | 1.1  | 112   | 0.00     |
| 44   | 2,4,5-Trichlorophenol       | 40.000 | 39.846 | 0.4  | 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 S | 2-Fluorobiphenyl           | 80.000 | 77.985 | 2.5   | 109   | 0.00     |
| 46   | 1,1'-Biphenyl              | 40.000 | 40.536 | -1.3  | 114   | 0.00     |
| 47   | 2-Chloronaphthalene        | 40.000 | 40.801 | -2.0  | 115   | 0.00     |
| 48   | 2-Nitroaniline             | 40.000 | 41.177 | -2.9  | 117   | 0.00     |
| 49   | Acenaphthylene             | 40.000 | 40.275 | -0.7  | 113   | 0.00     |
| 50   | Dimethylphthalate          | 40.000 | 41.709 | -4.3  | 118   | 0.00     |
| 51   | 2,6-Dinitrotoluene         | 40.000 | 42.104 | -5.3  | 119   | 0.00     |
| 52 C | Acenaphthene               | 40.000 | 40.641 | -1.6  | 114   | -0.01    |
| 53   | 3-Nitroaniline             | 40.000 | 40.599 | -1.5  | 115   | 0.00     |
| 54 P | 2,4-Dinitrophenol          | 40.000 | 37.203 | 7.0   | 108   | 0.00     |
| 55   | Dibenzofuran               | 40.000 | 38.421 | 3.9   | 107   | 0.00     |
| 56 P | 4-Nitrophenol              | 40.000 | 36.953 | 7.6   | 104   | 0.00     |
| 57   | 2,4-Dinitrotoluene         | 40.000 | 37.772 | 5.6   | 105   | 0.00     |
| 58   | Fluorene                   | 40.000 | 41.697 | -4.2  | 117   | 0.00     |
| 59   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 38.547 | 3.6   | 109   | 0.00     |
| 60   | Diethylphthalate           | 40.000 | 41.596 | -4.0  | 116   | 0.00     |
| 61   | 4-Chlorophenyl-phenylether | 40.000 | 41.647 | -4.1  | 115   | 0.00     |
| 62   | 4-Nitroaniline             | 40.000 | 40.477 | -1.2  | 114   | 0.00     |
| 63   | Azobenzene                 | 40.000 | 41.833 | -4.6  | 118   | 0.00     |
| 64 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0   | 110   | 0.00     |
| 65   | 4,6-Dinitro-2-methylphenol | 40.000 | 43.951 | -9.9  | 117   | 0.00     |
| 66 c | n-Nitrosodiphenylamine     | 40.000 | 42.728 | -6.8  | 117   | -0.01    |
| 67   | 4-Bromophenyl-phenylether  | 40.000 | 43.263 | -8.2  | 117   | 0.00     |
| 68   | Hexachlorobenzene          | 40.000 | 41.782 | -4.5  | 113   | 0.00     |
| 69   | Atrazine                   | 40.000 | 36.227 | 9.4   | 99    | 0.00     |
| 70 C | Pentachlorophenol          | 40.000 | 35.136 | 12.2  | 93    | 0.00     |
| 71   | Phenanthrene               | 40.000 | 40.937 | -2.3  | 111   | 0.00     |
| 72   | Anthracene                 | 40.000 | 41.622 | -4.1  | 113   | 0.00     |
| 73   | Carbazole                  | 40.000 | 42.606 | -6.5  | 115   | 0.00     |
| 74   | Di-n-butylphthalate        | 40.000 | 43.133 | -7.8  | 114   | 0.00     |
| 75 C | Fluoranthene               | 40.000 | 41.214 | -3.0  | 112   | 0.00     |
| 76 I | Chrysene-d12               | 20.000 | 20.000 | 0.0   | 102   | 0.00     |
| 77   | Benzidine                  | 40.000 | 44.690 | -11.7 | 107   | 0.00     |
| 78   | Pyrene                     | 40.000 | 42.282 | -5.7  | 110   | 0.00     |
| 79 S | Terphenyl-d14              | 80.000 | 83.052 | -3.8  | 108   | 0.00     |
| 80   | Butylbenzylphthalate       | 40.000 | 45.599 | -14.0 | 115   | -0.01    |
| 81   | Benzo(a)anthracene         | 40.000 | 42.931 | -7.3  | 110   | 0.00     |
| 82   | 3,3'-Dichlorobenzidine     | 40.000 | 42.996 | -7.5  | 107   | 0.00     |
| 83   | Chrysene                   | 40.000 | 41.844 | -4.6  | 107   | 0.00     |
| 84   | Bis(2-ethylhexyl)phthalate | 40.000 | 47.049 | -17.6 | 118   | 0.00     |
| 85 c | Di-n-octyl phthalate       | 40.000 | 46.450 | -16.1 | 115   | 0.00     |
| 86   | Indeno(1,2,3-cd)pyrene     | 40.000 | 41.631 | -4.1  | 111   | 0.01     |
| 87 I | Perylene-d12               | 20.000 | 20.000 | 0.0   | 104   | 0.00     |

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|      | Compound               | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(b)fluoranthene   | 40.000 | 42.053 | -5.1 | 104   | 0.00     |
| 89   | Benzo(k)fluoranthene   | 40.000 | 41.238 | -3.1 | 111   | 0.00     |
| 90 C | Benzo(a)pyrene         | 40.000 | 42.042 | -5.1 | 109   | 0.00     |
| 91   | Dibenzo(a,h)anthracene | 40.000 | 41.459 | -3.6 | 111   | 0.00     |
| 92   | Benzo(q,h,i)perylene   | 40.000 | 42.135 | -5.3 | 116   | 0.02     |

(#) = Out of Range

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