

Data File : BG041036.D  
Acq On : 3 Jun 2019 16:15  
Operator : HP/JU  
Sample : SSTDCCC040  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_G  
LabSampleId :  
SSTDCCC040

Quant Time: Jun 03 17:46:58 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG052919.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 29 18:39:57 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   | 100   | -0.01    |
| 2    | 1,4-Dioxane                  | 40.000 | 40.443 | -1.1  | 101   | -0.01    |
| 3    | Pyridine                     | 40.000 | 41.670 | -4.2  | 103   | 0.00     |
| 4    | n-Nitrosodimethylamine       | 40.000 | 44.361 | -10.9 | 109   | -0.01    |
| 5 S  | 2-Fluorophenol               | 80.000 | 82.015 | -2.5  | 101   | 0.00     |
| 6    | Aniline                      | 40.000 | 39.832 | 0.4   | 100   | -0.01    |
| 7 S  | Phenol-d6                    | 80.000 | 78.354 | 2.1   | 98    | 0.00     |
| 8    | 2-Chlorophenol               | 40.000 | 40.926 | -2.3  | 103   | -0.01    |
| 9    | Benzaldehyde                 | 40.000 | 41.486 | -3.7  | 103   | -0.01    |
| 10 C | Phenol                       | 40.000 | 40.094 | -0.2  | 100   | -0.01    |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 40.913 | -2.3  | 101   | 0.00     |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 41.994 | -5.0  | 104   | 0.00     |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 41.971 | -4.9  | 103   | -0.01    |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 40.968 | -2.4  | 101   | -0.01    |
| 15   | Benzyl Alcohol               | 40.000 | 38.670 | 3.3   | 97    | -0.01    |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 40.361 | -0.9  | 101   | -0.02    |
| 17   | 2-Methylphenol               | 40.000 | 37.405 | 6.5   | 93    | -0.01    |
| 18   | Hexachloroethane             | 40.000 | 42.642 | -6.6  | 107   | -0.01    |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 39.120 | 2.2   | 98    | -0.01    |
| 20   | 3+4-Methylphenols            | 40.000 | 37.785 | 5.5   | 96    | -0.01    |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0   | 100   | -0.01    |
| 22   | Acetophenone                 | 40.000 | 39.401 | 1.5   | 97    | -0.01    |
| 23 S | Nitrobenzene-d5              | 80.000 | 80.519 | -0.6  | 100   | 0.00     |
| 24   | Nitrobenzene                 | 40.000 | 39.704 | 0.7   | 97    | 0.00     |
| 25   | Isophorone                   | 40.000 | 38.357 | 4.1   | 94    | -0.01    |
| 26 C | 2-Nitrophenol                | 40.000 | 42.032 | -5.1  | 102   | -0.01    |
| 27   | 2,4-Dimethylphenol           | 40.000 | 38.133 | 4.7   | 94    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 38.747 | 3.1   | 95    | -0.01    |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 37.622 | 5.9   | 92    | 0.00     |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 40.064 | -0.2  | 98    | -0.01    |
| 31   | Naphthalene                  | 40.000 | 39.204 | 2.0   | 96    | -0.01    |
| 32   | Benzoic acid                 | 40.000 | 38.214 | 4.5   | 96    | 0.00     |
| 33   | 4-Chloroaniline              | 40.000 | 37.769 | 5.6   | 93    | -0.01    |
| 34 C | Hexachlorobutadiene          | 40.000 | 40.803 | -2.0  | 103   | 0.00     |
| 35   | Caprolactam                  | 40.000 | 36.391 | 9.0   | 89    | -0.01    |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 36.381 | 9.0   | 90    | -0.01    |
| 37   | 2-Methylnaphthalene          | 40.000 | 38.098 | 4.8   | 94    | -0.01    |
| 38   | 1-Methylnaphthalene          | 40.000 | 37.715 | 5.7   | 92    | 0.00     |
| 39 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0   | 91    | -0.01    |
| 40   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 42.293 | -5.7  | 94    | -0.01    |
| 41 P | Hexachlorocyclopentadiene    | 40.000 | 39.867 | 0.3   | 95    | -0.01    |
| 42 S | 2,4,6-Tribromophenol         | 80.000 | 80.572 | -0.7  | 90    | 0.00     |
| 43 C | 2,4,6-Trichlorophenol        | 40.000 | 40.674 | -1.7  | 89    | -0.01    |
| 44   | 2,4,5-Trichlorophenol        | 40.000 | 40.427 | -1.1  | 90    | -0.01    |

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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 | 84.684 | -5.9 | 93    | -0.01    |
| 46   | 1,1'-Biphenyl              | 40.000 | 41.721 | -4.3 | 91    | -0.01    |
| 47   | 2-Chloronaphthalene        | 40.000 | 42.044 | -5.1 | 93    | 0.00     |
| 48   | 2-Nitroaniline             | 40.000 | 42.420 | -6.1 | 94    | 0.00     |
| 49   | Acenaphthylene             | 40.000 | 40.960 | -2.4 | 89    | -0.01    |
| 50   | Dimethylphthalate          | 40.000 | 40.399 | -1.0 | 88    | 0.00     |
| 51   | 2,6-Dinitrotoluene         | 40.000 | 40.524 | -1.3 | 90    | 0.00     |
| 52 C | Acenaphthene               | 40.000 | 40.283 | -0.7 | 89    | 0.00     |
| 53   | 3-Nitroaniline             | 40.000 | 41.755 | -4.4 | 90    | -0.01    |
| 54 P | 2,4-Dinitrophenol          | 40.000 | 40.409 | -1.0 | 94    | -0.01    |
| 55   | Dibenzofuran               | 40.000 | 40.750 | -1.9 | 88    | 0.00     |
| 56 P | 4-Nitrophenol              | 40.000 | 42.078 | -5.2 | 91    | 0.00     |
| 57   | 2,4-Dinitrotoluene         | 40.000 | 41.303 | -3.3 | 90    | 0.00     |
| 58   | Fluorene                   | 40.000 | 39.767 | 0.6  | 88    | -0.01    |
| 59   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 40.559 | -1.4 | 89    | -0.01    |
| 60   | Diethylphthalate           | 40.000 | 40.156 | -0.4 | 88    | -0.01    |
| 61   | 4-Chlorophenyl-phenylether | 40.000 | 39.932 | 0.2  | 89    | 0.00     |
| 62   | 4-Nitroaniline             | 40.000 | 41.644 | -4.1 | 92    | -0.01    |
| 63   | Azobenzene                 | 40.000 | 40.200 | -0.5 | 87    | 0.00     |
| 64 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0  | 90    | 0.00     |
| 65   | 4,6-Dinitro-2-methylphenol | 40.000 | 39.059 | 2.4  | 92    | 0.00     |
| 66 c | n-Nitrosodiphenylamine     | 40.000 | 39.976 | 0.1  | 88    | 0.00     |
| 67   | 4-Bromophenyl-phenylether  | 40.000 | 39.439 | 1.4  | 86    | -0.01    |
| 68   | Hexachlorobenzene          | 40.000 | 39.091 | 2.3  | 87    | -0.01    |
| 69   | Atrazine                   | 40.000 | 42.898 | -7.2 | 87    | -0.01    |
| 70 C | Pentachlorophenol          | 40.000 | 37.988 | 5.0  | 83    | -0.01    |
| 71   | Phenanthrene               | 40.000 | 41.153 | -2.9 | 90    | -0.01    |
| 72   | Anthracene                 | 40.000 | 41.730 | -4.3 | 91    | 0.00     |
| 73   | Carbazole                  | 40.000 | 42.119 | -5.3 | 92    | -0.01    |
| 74   | Di-n-butylphthalate        | 40.000 | 41.351 | -3.4 | 88    | -0.01    |
| 75 C | Fluoranthene               | 40.000 | 42.433 | -6.1 | 92    | 0.00     |
| 76 I | Chrysene-d12               | 20.000 | 20.000 | 0.0  | 93    | -0.01    |
| 77   | Benzidine                  | 40.000 | 40.437 | -1.1 | 89    | -0.01    |
| 78   | Pyrene                     | 40.000 | 41.856 | -4.6 | 93    | -0.01    |
| 79 S | Terphenyl-d14              | 80.000 | 83.935 | -4.9 | 92    | -0.01    |
| 80   | Butylbenzylphthalate       | 40.000 | 41.249 | -3.1 | 92    | 0.00     |
| 81   | Benzo(a)anthracene         | 40.000 | 40.864 | -2.2 | 93    | 0.00     |
| 82   | 3,3'-Dichlorobenzidine     | 40.000 | 40.445 | -1.1 | 93    | -0.01    |
| 83   | Chrysene                   | 40.000 | 41.110 | -2.8 | 92    | -0.01    |
| 84   | Bis(2-ethylhexyl)phthalate | 40.000 | 39.958 | 0.1  | 90    | -0.01    |
| 85 c | Di-n-octyl phthalate       | 40.000 | 40.120 | -0.3 | 90    | -0.01    |
| 86   | Indeno(1,2,3-cd)pyrene     | 40.000 | 38.282 | 4.3  | 89    | -0.03    |
| 87 I | Perylene-d12               | 20.000 | 20.000 | 0.0  | 94    | -0.02    |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG060319\  
Evaluate Continuing Calibration Report

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Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound               | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(b)fluoranthene   | 40.000 | 40.171 | -0.4 | 92    | -0.01    |
| 89   | Benzo(k)fluoranthene   | 40.000 | 39.927 | 0.2  | 91    | -0.02    |
| 90 C | Benzo(a)pyrene         | 40.000 | 39.971 | 0.1  | 91    | -0.01    |
| 91   | Dibenzo(a,h)anthracene | 40.000 | 38.106 | 4.7  | 86    | -0.02    |
| 92   | Benzo(g,h,i)perylene   | 40.000 | 38.467 | 3.8  | 89    | -0.02    |

(#) = Out of Range

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