# Evaluate Continuing Calibration Report

Data Path : Z:\svoasrv\HPCHEM1\BNA G\Data\BG021419\
Data File : BG039506.D
Acq On : 14 Feb 2019 9:57
Operator : JU/SJ
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** BNA_G
**LabSampleId :** SSTDCCC040

Quant Time: Feb 14 15:59:53 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG012919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jan 29 15:41:51 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 | 122 | -0.01 |
| 2 | | 1,4-Dioxane | 40.000 | 35.159 | 12.1 | 109 | -0.01 |
| 3 | | Pyridine | 40.000 | 39.089 | 2.3 | 114 | -0.01 |
| 4 | | n-Nitrosodimethylamine | 40.000 | 35.808 | 10.5 | 110 | 0.00 |
| 5 | S | 2-Fluorophenol | 80.000 | 84.980 | -6.2 | 132 | 0.00 |
| 6 | | Aniline | 40.000 | 42.114 | -5.3 | 132 | -0.01 |
| 7 | S | Phenol-d6 | 80.000 | 94.767 | -18.5 | 144 | 0.00 |
| 8 | | 2-Chlorophenol | 40.000 | 45.098 | -12.7 | 138 | -0.01 |
| 9 | | Benzaldehyde | 40.000 | 44.553 | -11.4 | 132 | -0.01 |
| 10 | C | Phenol | 40.000 | 47.304 | -18.3 | 148 | 0.00 |
| 11 | | bis(2-Chloroethyl)ether | 40.000 | 40.732 | -1.8 | 126 | -0.02 |
| 12 | | 1,3-Dichlorobenzene | 40.000 | 39.545 | 1.1 | 124 | -0.01 |
| 13 | C | 1,4-Dichlorobenzene | 40.000 | 40.678 | -1.7 | 126 | -0.01 |
| 14 | | 1,2-Dichlorobenzene | 40.000 | 40.638 | -1.6 | 128 | -0.01 |
| 15 | | Benzyl Alcohol | 40.000 | 44.707 | -11.8 | 135 | 0.00 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 40.000 | 33.809 | 15.5 | 107 | -0.02 |
| 17 | | 2-Methylphenol | 40.000 | 47.046 | -17.6 | 146 | 0.00 |
| 18 | | Hexachloroethane | 40.000 | 41.180 | -2.9 | 128 | -0.01 |
| 19 | P | n-Nitroso-di-n-propylamine | 40.000 | 40.611 | -1.5 | 123 | -0.02 |
| 20 | | 3+4-Methylphenols | 40.000 | 49.664 | -24.2 | 150 | 0.00 |
| 21 | I | Naphthalene-d8 | 20.000 | 20.000 | 0.0 | 132 | -0.02 |
| 22 | | Acetophenone | 40.000 | 38.409 | 4.0 | 133 | -0.02 |
| 23 | S | Nitrobenzene-d5 | 80.000 | 93.263 | -16.6 | 159 | -0.01 |
| 24 | | Nitrobenzene | 40.000 | 43.878 | -9.7 | 152 | -0.01 |
| 25 | | Isophorone | 40.000 | 37.431 | 6.4 | 128 | -0.02 |
| 26 | C | 2-Nitrophenol | 40.000 | 56.165 | -40.4# | 222 | -0.01 |
| 27 | | 2,4-Dimethylphenol | 40.000 | 43.947 | -9.9 | 151 | 0.00 |
| 28 | | bis(2-Chloroethoxy)methane | 40.000 | 39.537 | 1.2 | 133 | -0.02 |
| 29 | C | 2,4-Dichlorophenol | 40.000 | 49.228 | -23.1# | 167 | 0.00 |
| 30 | | 1,2,4-Trichlorobenzene | 40.000 | 41.450 | -3.6 | 140 | -0.01 |
| 31 | | Naphthalene | 40.000 | 39.052 | 2.4 | 136 | -0.02 |
| 32 | | Benzoic acid | 40.000 | 50.417 | -26.0# | 198 | 0.02 |
| 33 | | 4-Chloroaniline | 40.000 | 42.802 | -7.0 | 147 | -0.01 |
| 34 | C | Hexachlorobutadiene | 40.000 | 40.143 | -0.4 | 137 | -0.02 |
| 35 | | Caprolactam | 40.000 | 45.858 | -14.6 | 148 | -0.01 |
| 36 | C | 4-Chloro-3-methylphenol | 40.000 | 45.726 | -14.3 | 152 | 0.00 |
| 37 | | 2-Methylnaphthalene | 40.000 | 40.000 | 0.0 | 139 | -0.01 |
| 38 | | 1-Methylnaphthalene | 40.000 | 40.676 | -1.7 | 141 | -0.02 |
| 39 | I | Acenaphthene-d10 | 20.000 | 20.000 | 0.0 | 145 | -0.01 |
| 40 | | 1,2,4,5-Tetrachlorobenzene | 40.000 | 39.913 | 0.2 | 149 | -0.01 |
| 41 | P | Hexachlorocyclopentadiene | 40.000 | 42.463 | -6.2 | 157 | -0.02 |
| 42 | S | 2,4,6-Tribromophenol | 80.000 | 87.135 | -8.9 | 160 | 0.00 |
| 43 | C | 2,4,6-Trichlorophenol | 40.000 | 46.329 | -15.8 | 166 | 0.00 |
| 44 | | 2,4,5-Trichlorophenol | 40.000 | 46.223 | -15.6 | 162 | 0.00 |

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

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 45 | S | 2-Fluorobiphenyl | 80.000 | 75.675 | 5.4 | 144 | -0.01 |
| 46 | | 1,1'-Biphenyl | 40.000 | 37.643 | 5.9 | 144 | -0.01 |
| 47 | | 2-Chloronaphthalene | 40.000 | 39.137 | 2.2 | 148 | -0.01 |
| 48 | | 2-Nitroaniline | 40.000 | 46.694 | -16.7 | 194 | -0.01 |
| 49 | | Acenaphthylene | 40.000 | 38.305 | 4.2 | 144 | -0.01 |
| 50 | | Dimethylphthalate | 40.000 | 38.021 | 4.9 | 143 | -0.01 |
| 51 | | 2,6-Dinitrotoluene | 40.000 | 47.237 | -18.1 | 187 | -0.01 |
| 52 | C | Acenaphthene | 40.000 | 37.254 | 6.9 | 138 | -0.01 |
| 53 | | 3-Nitroaniline | 40.000 | 45.180 | -13.0 | 179 | 0.00 |
| 54 | P | 2,4-Dinitrophenol | 40.000 | 46.376 | -15.9 | 186 | 0.00 |
| 55 | | Dibenzofuran | 40.000 | 38.435 | 3.9 | 146 | -0.02 |
| 56 | P | 4-Nitrophenol | 40.000 | 40.848 | -2.1 | 159 | 0.00 |
| 57 | | 2,4-Dinitrotoluene | 40.000 | 49.858 | -24.6 | 207 | 0.00 |
| 58 | | Fluorene | 40.000 | 37.914 | 5.2 | 143 | -0.02 |
| 59 | | 2,3,4,6-Tetrachlorophenol | 40.000 | 42.953 | -7.4 | 153 | -0.01 |
| 60 | | Diethylphthalate | 40.000 | 36.364 | 9.1 | 138 | -0.02 |
| 61 | | 4-Chlorophenyl-phenylether | 40.000 | 40.093 | -0.2 | 153 | -0.02 |
| 62 | | 4-Nitroaniline | 40.000 | 42.508 | -6.3 | 163 | 0.00 |
| 63 | | Azobenzene | 40.000 | 34.586 | 13.5 | 131 | -0.02 |
| 64 | I | Phenanthrene-d10 | 20.000 | 20.000 | 0.0 | 135 | -0.01 |
| 65 | | 4,6-Dinitro-2-methylphenol | 40.000 | 48.675 | -21.7 | 188 | 0.00 |
| 66 | c | n-Nitrosodiphenylamine | 40.000 | 40.162 | -0.4 | 141 | -0.01 |
| 67 | | 4-Bromophenyl-phenylether | 40.000 | 42.405 | -6.0 | 150 | -0.01 |
| 68 | | Hexachlorobenzene | 40.000 | 43.680 | -9.2 | 155 | -0.01 |
| 69 | | Atrazine | 40.000 | 37.318 | 6.7 | 129 | -0.01 |
| 70 | C | Pentachlorophenol | 40.000 | 38.528 | 3.7 | 131 | -0.01 |
| 71 | | Phenanthrene | 40.000 | 38.314 | 4.2 | 136 | -0.01 |
| 72 | | Anthracene | 40.000 | 38.527 | 3.7 | 137 | -0.01 |
| 73 | | Carbazole | 40.000 | 37.045 | 7.4 | 132 | -0.01 |
| 74 | | Di-n-butylphthalate | 40.000 | 37.244 | 6.9 | 132 | -0.02 |
| 75 | C | Fluoranthene | 40.000 | 38.157 | 4.6 | 137 | -0.01 |
| 76 | I | Chrysene-d12 | 20.000 | 20.000 | 0.0 | 136 | -0.02 |
| 77 | | Benzidine | 40.000 | 37.280 | 6.8 | 134 | -0.01 |
| 78 | | Pyrene | 40.000 | 38.459 | 3.9 | 136 | -0.01 |
| 79 | S | Terphenyl-d14 | 80.000 | 75.436 | 5.7 | 135 | -0.02 |
| 80 | | Butylbenzylphthalate | 40.000 | 40.097 | -0.2 | 138 | -0.02 |
| 81 | | Benzo(a)anthracene | 40.000 | 38.763 | 3.1 | 138 | -0.02 |
| 82 | | 3,3'-Dichlorobenzidine | 40.000 | 40.577 | -1.4 | 141 | -0.02 |
| 83 | | Chrysene | 40.000 | 38.703 | 3.2 | 136 | -0.02 |
| 84 | | Bis(2-ethylhexyl)phthalate | 40.000 | 39.259 | 1.9 | 136 | -0.03 |
| 85 | c | Di-n-octyl phthalate | 40.000 | 39.745 | 0.6 | 137 | -0.05 |
| 86 | | Indeno(1,2,3-cd)pyrene | 40.000 | 42.004 | -5.0 | 146 | -0.05 |
| 87 | I | Perylene-d12 | 20.000 | 20.000 | 0.0 | 138 | -0.03 |

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| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 88 | Benzo(b)fluoranthene | 40.000 | 40.110 | -0.3 | 141 | -0.03 |
| 89 | Benzo(k)fluoranthene | 40.000 | 38.040 | 4.9 | 137 | -0.03 |
| 90 C | Benzo(a)pyrene | 40.000 | 40.103 | -0.3 | 142 | -0.03 |
| 91 | Dibenzo(a,h)anthracene | 40.000 | 40.566 | -1.4 | 145 | -0.07 |
| 92 | Benzo(g,h,i)perylene | 40.000 | 41.151 | -2.9 | 146 | -0.05 |

(#) = Out of Range SPCC's out = 0 CCC's out = 2