# Evaluate Continuing Calibration Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050919\
Data File : BM020228.D
Acq On : 09 May 2019 21:38
Operator : JU/SJ
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** BNA_M
**LabSampleId :** SSTDCCC040

Quant Time: May 10 04:46:47 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 01 03:58:37 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 | -0.02 |
| 2 | | 1,4-Dioxane | 40.000 | 45.017 | -12.5 | 134 | -0.01 |
| 3 | | Pyridine | 40.000 | 46.959 | -17.4 | 127 | 0.00 |
| 4 | | n-Nitrosodimethylamine | 40.000 | 38.816 | 3.0 | 113 | 0.00 |
| 5 | S | 2-Fluorophenol | 80.000 | 90.989 | -13.7 | 131 | -0.01 |
| 6 | | Aniline | 40.000 | 44.359 | -10.9 | 128 | -0.01 |
| 7 | S | Phenol-d6 | 80.000 | 87.479 | -9.3 | 125 | 0.00 |
| 8 | | 2-Chlorophenol | 40.000 | 44.625 | -11.6 | 126 | -0.01 |
| 9 | | Benzaldehyde | 40.000 | 40.632 | -1.6 | 114 | -0.01 |
| 10 | C | Phenol | 40.000 | 43.797 | -9.5 | 124 | 0.00 |
| 11 | | bis(2-Chloroethyl)ether | 40.000 | 44.640 | -11.6 | 125 | -0.01 |
| 12 | | 1,3-Dichlorobenzene | 40.000 | 44.545 | -11.4 | 127 | -0.02 |
| 13 | C | 1,4-Dichlorobenzene | 40.000 | 45.021 | -12.6 | 128 | -0.01 |
| 14 | | 1,2-Dichlorobenzene | 40.000 | 44.001 | -10.0 | 127 | -0.01 |
| 15 | | Benzyl Alcohol | 40.000 | 39.539 | 1.2 | 111 | -0.01 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 40.000 | 40.324 | -0.8 | 110 | -0.02 |
| 17 | | 2-Methylphenol | 40.000 | 43.230 | -8.1 | 122 | 0.00 |
| 18 | | Hexachloroethane | 40.000 | 37.857 | 5.4 | 109 | -0.02 |
| 19 | P | n-Nitroso-di-n-propylamine | 40.000 | 39.833 | 0.4 | 110 | -0.02 |
| 20 | | 3+4-Methylphenols | 40.000 | 42.673 | -6.7 | 120 | 0.00 |
| 21 | I | Naphthalene-d8 | 20.000 | 20.000 | 0.0 | 101 | -0.01 |
| 22 | | Acetophenone | 40.000 | 43.237 | -8.1 | 114 | -0.01 |
| 23 | S | Nitrobenzene-d5 | 80.000 | 87.072 | -8.8 | 114 | -0.01 |
| 24 | | Nitrobenzene | 40.000 | 42.659 | -6.6 | 112 | -0.01 |
| 25 | | Isophorone | 40.000 | 43.138 | -7.8 | 110 | -0.01 |
| 26 | C | 2-Nitrophenol | 40.000 | 53.032 | -32.6# | 137 | -0.01 |
| 27 | | 2,4-Dimethylphenol | 40.000 | 43.539 | -8.8 | 114 | -0.01 |
| 28 | | bis(2-Chloroethoxy)methane | 40.000 | 44.279 | -10.7 | 113 | -0.02 |
| 29 | C | 2,4-Dichlorophenol | 40.000 | 45.540 | -13.8 | 119 | 0.00 |
| 30 | | 1,2,4-Trichlorobenzene | 40.000 | 45.127 | -12.8 | 119 | -0.01 |
| 31 | | Naphthalene | 40.000 | 44.958 | -12.4 | 118 | -0.01 |
| 32 | | Benzoic acid | 40.000 | 45.444 | -13.6 | 124 | 0.01 |
| 33 | | 4-Chloroaniline | 40.000 | 43.161 | -7.9 | 111 | -0.01 |
| 34 | C | Hexachlorobutadiene | 40.000 | 43.920 | -9.8 | 114 | -0.02 |
| 35 | | Caprolactam | 40.000 | 45.927 | -14.8 | 114 | 0.01 |
| 36 | C | 4-Chloro-3-methylphenol | 40.000 | 42.277 | -5.7 | 107 | 0.00 |
| 37 | | 2-Methylnaphthalene | 40.000 | 43.860 | -9.6 | 113 | -0.02 |
| 38 | | 1-Methylnaphthalene | 40.000 | 43.541 | -8.9 | 112 | -0.01 |
| 39 | I | Acenaphthene-d10 | 20.000 | 20.000 | 0.0 | 92 | -0.01 |
| 40 | | 1,2,4,5-Tetrachlorobenzene | 40.000 | 45.162 | -12.9 | 110 | -0.01 |
| 41 | P | Hexachlorocyclopentadiene | 40.000 | 7.154 | 82.1# | 17 | -0.02 |
| 42 | S | 2,4,6-Tribromophenol | 80.000 | 92.314 | -15.4 | 107 | 0.00 |
| 43 | C | 2,4,6-Trichlorophenol | 40.000 | 47.473 | -18.7 | 112 | 0.00 |
| 44 | | 2,4,5-Trichlorophenol | 40.000 | 45.453 | -13.6 | 109 | 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 | 87.704 | -9.6 | 107 | -0.02 |
| 46 | | 1,1'-Biphenyl | 40.000 | 44.454 | -11.1 | 107 | -0.02 |
| 47 | | 2-Chloronaphthalene | 40.000 | 44.511 | -11.3 | 109 | -0.01 |
| 48 | | 2-Nitroaniline | 40.000 | 44.284 | -10.7 | 104 | 0.00 |
| 49 | | Acenaphthylene | 40.000 | 44.583 | -11.5 | 107 | -0.01 |
| 50 | | Dimethylphthalate | 40.000 | 41.932 | -4.8 | 99 | -0.02 |
| 51 | | 2,6-Dinitrotoluene | 40.000 | 44.124 | -10.3 | 104 | -0.01 |
| 52 | C | Acenaphthene | 40.000 | 44.460 | -11.2 | 106 | -0.01 |
| 53 | | 3-Nitroaniline | 40.000 | 46.319 | -15.8 | 109 | 0.00 |
| 54 | P | 2,4-Dinitrophenol | 40.000 | 16.908 | 57.7# | 27 | 0.00 |
| 55 | | Dibenzofuran | 40.000 | 43.507 | -8.8 | 104 | -0.01 |
| 56 | P | 4-Nitrophenol | 40.000 | 42.650 | -6.6 | 98 | 0.01 |
| 57 | | 2,4-Dinitrotoluene | 40.000 | 43.580 | -8.9 | 101 | 0.00 |
| 58 | | Fluorene | 40.000 | 43.209 | -8.0 | 103 | -0.01 |
| 59 | | 2,3,4,6-Tetrachlorophenol | 40.000 | 44.952 | -12.4 | 107 | 0.00 |
| 60 | | Diethylphthalate | 40.000 | 40.702 | -1.8 | 94 | -0.02 |
| 61 | | 4-Chlorophenyl-phenylether | 40.000 | 41.739 | -4.3 | 100 | -0.01 |
| 62 | | 4-Nitroaniline | 40.000 | 44.360 | -10.9 | 102 | 0.00 |
| 63 | | Azobenzene | 40.000 | 38.848 | 2.9 | 91 | -0.01 |
| 64 | I | Phenanthrene-d10 | 20.000 | 20.000 | 0.0 | 87 | 0.00 |
| 65 | | 4,6-Dinitro-2-methylphenol | 40.000 | 19.229 | 51.9# | 36 | 0.00 |
| 66 | c | n-Nitrosodiphenylamine | 40.000 | 44.802 | -12.0 | 101 | -0.01 |
| 67 | | 4-Bromophenyl-phenylether | 40.000 | 44.252 | -10.6 | 100 | -0.01 |
| 68 | | Hexachlorobenzene | 40.000 | 44.366 | -10.9 | 100 | 0.00 |
| 69 | | Atrazine | 40.000 | 41.469 | -3.7 | 92 | -0.01 |
| 70 | C | Pentachlorophenol | 40.000 | 46.694 | -16.7 | 104 | 0.00 |
| 71 | | Phenanthrene | 40.000 | 44.619 | -11.5 | 101 | 0.00 |
| 72 | | Anthracene | 40.000 | 44.763 | -11.9 | 101 | -0.01 |
| 73 | | Carbazole | 40.000 | 44.181 | -10.5 | 100 | 0.00 |
| 74 | | Di-n-butylphthalate | 40.000 | 42.820 | -7.1 | 94 | -0.01 |
| 75 | C | Fluoranthene | 40.000 | 43.481 | -8.7 | 98 | 0.00 |
| 76 | I | Chrysene-d12 | 20.000 | 20.000 | 0.0 | 84 | 0.00 |
| 77 | | Benzidine | 40.000 | 42.353 | -5.9 | 90 | 0.00 |
| 78 | | Pyrene | 40.000 | 45.110 | -12.8 | 98 | 0.00 |
| 79 | S | Terphenyl-d14 | 80.000 | 86.044 | -7.6 | 93 | -0.01 |
| 80 | | Butylbenzylphthalate | 40.000 | 47.288 | -18.2 | 99 | -0.02 |
| 81 | | Benzo(a)anthracene | 40.000 | 44.396 | -11.0 | 97 | 0.00 |
| 82 | | 3,3'-Dichlorobenzidine | 40.000 | 46.529 | -16.3 | 99 | 0.00 |
| 83 | | Chrysene | 40.000 | 44.780 | -12.0 | 96 | 0.00 |
| 84 | | Bis(2-ethylhexyl)phthalate | 40.000 | 43.762 | -9.4 | 91 | -0.02 |
| 85 | c | Di-n-octyl phthalate | 40.000 | 45.415 | -13.5 | 95 | -0.02 |
| 86 | | Indeno(1,2,3-cd)pyrene | 40.000 | 51.181 | -28.0# | 113 | 0.00 |
| 87 | I | Perylene-d12 | 20.000 | 20.000 | 0.0 | 96 | 0.00 |

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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 | 41.167 | -2.9 | 101 | 0.00 |
| 89 | Benzo(k)fluoranthene | 40.000 | 41.704 | -4.3 | 103 | 0.00 |
| 90 C | Benzo(a)pyrene | 40.000 | 43.092 | -7.7 | 106 | 0.00 |
| 91 | Dibenzo(a,h)anthracene | 40.000 | 44.900 | -12.2 | 113 | 0.00 |
| 92 | Benzo(g,h,i)perylene | 40.000 | 46.017 | -15.0 | 115 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 1