# Evaluate Continuing Calibration Report

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM102918\
Data File : BM017402.D
Acq On : 29 Oct 2018 11:23
Operator : MJ/SJ
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

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

Quant Time: Oct 29 15:14:01 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM101718.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 29 15:08:36 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 | 112 | 0.00 |
| 2 | | 1,4-Dioxane | 40.000 | 32.854 | 17.9 | 94 | 0.00 |
| 3 | | Pyridine | 40.000 | 38.136 | 4.7 | 101 | 0.00 |
| 4 | | n-Nitrosodimethylamine | 40.000 | 36.758 | 8.1 | 104 | 0.00 |
| 5 | S | 2-Fluorophenol | 80.000 | 78.274 | 2.2 | 106 | 0.00 |
| 6 | | Aniline | 40.000 | 41.858 | -4.6 | 112 | 0.00 |
| 7 | S | Phenol-d6 | 80.000 | 83.896 | -4.9 | 112 | 0.00 |
| 8 | | 2-Chlorophenol | 40.000 | 42.078 | -5.2 | 113 | 0.00 |
| 9 | | Benzaldehyde | 40.000 | 36.641 | 8.4 | 103 | 0.00 |
| 10 | C | Phenol | 40.000 | 40.838 | -2.1 | 110 | 0.00 |
| 11 | | bis(2-Chloroethyl)ether | 40.000 | 39.831 | 0.4 | 109 | 0.00 |
| 12 | | 1,3-Dichlorobenzene | 40.000 | 39.188 | 2.0 | 109 | 0.00 |
| 13 | C | 1,4-Dichlorobenzene | 40.000 | 39.446 | 1.4 | 110 | 0.00 |
| 14 | | 1,2-Dichlorobenzene | 40.000 | 39.708 | 0.7 | 109 | 0.00 |
| 15 | | Benzyl Alcohol | 40.000 | 45.151 | -12.9 | 118 | 0.00 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 40.000 | 38.091 | 4.8 | 105 | 0.00 |
| 17 | | 2-Methylphenol | 40.000 | 43.356 | -8.4 | 116 | 0.00 |
| 18 | | Hexachloroethane | 40.000 | 40.089 | -0.2 | 110 | 0.00 |
| 19 | P | n-Nitroso-di-n-propylamine | 40.000 | 43.731 | -9.3 | 113 | 0.00 |
| 20 | | 3+4-Methylphenols | 40.000 | 44.606 | -11.5 | 118 | 0.00 |
| 21 | I | Naphthalene-d8 | 20.000 | 20.000 | 0.0 | 119 | 0.00 |
| 22 | | Acetophenone | 40.000 | 38.411 | 4.0 | 112 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 80.000 | 84.285 | -5.4 | 116 | 0.00 |
| 24 | | Nitrobenzene | 40.000 | 40.025 | -0.1 | 111 | 0.00 |
| 25 | | Isophorone | 40.000 | 41.578 | -3.9 | 116 | 0.00 |
| 26 | C | 2-Nitrophenol | 40.000 | 44.188 | -10.5 | 136 | 0.00 |
| 27 | | 2,4-Dimethylphenol | 40.000 | 42.260 | -5.6 | 120 | 0.00 |
| 28 | | bis(2-Chloroethoxy)methane | 40.000 | 40.140 | -0.4 | 115 | 0.00 |
| 29 | C | 2,4-Dichlorophenol | 40.000 | 42.833 | -7.1 | 121 | 0.00 |
| 30 | | 1,2,4-Trichlorobenzene | 40.000 | 39.344 | 1.6 | 116 | 0.00 |
| 31 | | Naphthalene | 40.000 | 39.008 | 2.5 | 116 | 0.00 |
| 32 | | Benzoic acid | 40.000 | 50.711 | -26.8# | 153 | 0.00 |
| 33 | | 4-Chloroaniline | 40.000 | 42.145 | -5.4 | 119 | 0.00 |
| 34 | C | Hexachlorobutadiene | 40.000 | 38.031 | 4.9 | 114 | 0.00 |
| 35 | | Caprolactam | 40.000 | 45.068 | -12.7 | 130 | 0.00 |
| 36 | C | 4-Chloro-3-methylphenol | 40.000 | 43.483 | -8.7 | 122 | 0.00 |
| 37 | | 2-Methylnaphthalene | 40.000 | 41.306 | -3.3 | 118 | 0.00 |
| 38 | | 1-Methylnaphthalene | 40.000 | 41.523 | -3.8 | 119 | 0.00 |
| 39 | I | Acenaphthene-d10 | 20.000 | 20.000 | 0.0 | 122 | 0.00 |
| 40 | | 1,2,4,5-Tetrachlorobenzene | 40.000 | 39.639 | 0.9 | 121 | 0.00 |
| 41 | P | Hexachlorocyclopentadiene | 40.000 | 37.472 | 6.3 | 109 | 0.00 |
| 42 | S | 2,4,6-Tribromophenol | 80.000 | 89.423 | -11.8 | 135 | 0.00 |
| 43 | C | 2,4,6-Trichlorophenol | 40.000 | 44.183 | -10.5 | 125 | 0.00 |
| 44 | | 2,4,5-Trichlorophenol | 40.000 | 43.257 | -8.1 | 124 | 0.00 |

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| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 45 | S | 2-Fluorobiphenyl | 80.000 | 78.781 | 1.5 | 119 | 0.00 |
| 46 | | 1,1'-Biphenyl | 40.000 | 39.078 | 2.3 | 119 | 0.00 |
| 47 | | 2-Chloronaphthalene | 40.000 | 39.615 | 1.0 | 118 | 0.00 |
| 48 | | 2-Nitroaniline | 40.000 | 43.025 | -7.6 | 133 | 0.00 |
| 49 | | Acenaphthylene | 40.000 | 41.577 | -3.9 | 121 | 0.00 |
| 50 | | Dimethylphthalate | 40.000 | 41.603 | -4.0 | 122 | 0.00 |
| 51 | | 2,6-Dinitrotoluene | 40.000 | 43.340 | -8.4 | 128 | 0.00 |
| 52 | C | Acenaphthene | 40.000 | 40.041 | -0.1 | 120 | 0.00 |
| 53 | | 3-Nitroaniline | 40.000 | 44.247 | -10.6 | 130 | 0.00 |
| 54 | P | 2,4-Dinitrophenol | 40.000 | 42.949 | -7.4 | 140 | 0.00 |
| 55 | | Dibenzofuran | 40.000 | 39.291 | 1.8 | 119 | 0.00 |
| 56 | P | 4-Nitrophenol | 40.000 | 39.584 | 1.0 | 121 | 0.00 |
| 57 | | 2,4-Dinitrotoluene | 40.000 | 45.378 | -13.4 | 132 | 0.00 |
| 58 | | Fluorene | 40.000 | 40.915 | -2.3 | 123 | 0.00 |
| 59 | | 2,3,4,6-Tetrachlorophenol | 40.000 | 44.302 | -10.8 | 127 | 0.00 |
| 60 | | Diethylphthalate | 40.000 | 42.936 | -7.3 | 124 | 0.00 |
| 61 | | 4-Chlorophenyl-phenylether | 40.000 | 40.479 | -1.2 | 121 | 0.00 |
| 62 | | 4-Nitroaniline | 40.000 | 42.465 | -6.2 | 131 | 0.00 |
| 63 | | Azobenzene | 40.000 | 40.650 | -1.6 | 116 | 0.00 |
| 64 | I | Phenanthrene-d10 | 20.000 | 20.000 | 0.0 | 126 | 0.00 |
| 65 | | 4,6-Dinitro-2-methylphenol | 40.000 | 43.343 | -8.4 | 143 | 0.00 |
| 66 | c | n-Nitrosodiphenylamine | 40.000 | 40.884 | -2.2 | 124 | 0.00 |
| 67 | | 4-Bromophenyl-phenylether | 40.000 | 41.735 | -4.3 | 126 | 0.00 |
| 68 | | Hexachlorobenzene | 40.000 | 39.840 | 0.4 | 124 | 0.00 |
| 69 | | Atrazine | 40.000 | 40.566 | -1.4 | 123 | 0.00 |
| 70 | C | Pentachlorophenol | 40.000 | 42.496 | -6.2 | 129 | 0.00 |
| 71 | | Phenanthrene | 40.000 | 38.995 | 2.5 | 122 | 0.00 |
| 72 | | Anthracene | 40.000 | 41.087 | -2.7 | 124 | 0.00 |
| 73 | | Carbazole | 40.000 | 41.519 | -3.8 | 127 | 0.00 |
| 74 | | Di-n-butylphthalate | 40.000 | 43.417 | -8.5 | 132 | 0.00 |
| 75 | C | Fluoranthene | 40.000 | 41.551 | -3.9 | 126 | 0.00 |
| 76 | I | Chrysene-d12 | 20.000 | 20.000 | 0.0 | 126 | 0.00 |
| 77 | | Benzidine | 40.000 | 41.062 | -2.7 | 118 | 0.00 |
| 78 | | Pyrene | 40.000 | 41.675 | -4.2 | 124 | 0.00 |
| 79 | S | Terphenyl-d14 | 80.000 | 82.119 | -2.6 | 125 | 0.00 |
| 80 | | Butylbenzylphthalate | 40.000 | 47.014 | -17.5 | 160 | 0.00 |
| 81 | | Benzo(a)anthracene | 40.000 | 40.299 | -0.7 | 124 | 0.00 |
| 82 | | 3,3'-Dichlorobenzidine | 40.000 | 43.320 | -8.3 | 132 | 0.00 |
| 83 | | Chrysene | 40.000 | 39.513 | 1.2 | 124 | 0.00 |
| 84 | | Bis(2-ethylhexyl)phthalate | 40.000 | 43.067 | -7.7 | 139 | 0.00 |
| 85 | c | Di-n-octyl phthalate | 40.000 | 44.318 | -10.8 | 145 | 0.00 |
| 86 | | Indeno(1,2,3-cd)pyrene | 40.000 | 29.689 | 25.8# | 93 | 0.00 |
| 87 | I | Perylene-d12 | 20.000 | 20.000 | 0.0 | 110 | 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 | 41.816 | -4.5 | 113 | 0.00 |
| 89 | Benzo(k)fluoranthene | 40.000 | 43.062 | -7.7 | 115 | 0.00 |
| 90 C | Benzo(a)pyrene | 40.000 | 40.816 | -2.0 | 109 | 0.00 |
| 91 | Dibenzo(a,h)anthracene | 40.000 | 34.697 | 13.3 | 94 | 0.00 |
| 92 | Benzo(g,h,i)perylene | 40.000 | 32.162 | 19.6 | 88 | 0.00 |

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