# Evaluate Continuing Calibration Report

Data Path : Z:\HPCHEM1\BNA_M\Data\BM022316\
Data File : BM004358.D
Acq On : 23 Feb 2016 20:10
Operator : SJ/UM
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** BNA_M
**LabSampleId :** SSTD02052

Quant Time: Feb 24 02:52:43 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM022216.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Feb 24 01:02:10 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 20.000 | 20.000 | 0.0 | 133 | 0.00 |
| 2 | | 1,4-Dioxane | 8.000 | 8.436 | -5.4 | 132 | 0.00 |
| 3 | S | 1,4-Dioxane-d8 | 8.000 | 8.255 | -3.2 | 128 | 0.00 |
| 4 | | Benzaldehyde | 20.000 | 21.764 | -8.8 | 120 | 0.00 |
| 5 | S | Phenol-d5 | 20.000 | 18.184 | 9.1 | 118 | 0.00 |
| 6 | | Phenol | 20.000 | 18.186 | 9.1 | 118 | 0.00 |
| 7 | S | Bis-(2-Chloroethyl)ether-d8 | 20.000 | 18.991 | 5.0 | 120 | 0.00 |
| 8 | | Bis(2-Chloroethyl)ether | 20.000 | 18.819 | 5.9 | 120 | 0.00 |
| 9 | S | 2-Chlorophenol-d4 | 20.000 | 18.616 | 6.9 | 119 | 0.00 |
| 10 | | 2-Chlorophenol | 20.000 | 19.069 | 4.7 | 123 | 0.00 |
| 11 | | 2-Methylphenol | 20.000 | 17.692 | 11.5 | 116 | 0.00 |
| 12 | | 2,2'-oxybis(1-Chloropropane | 20.000 | 18.932 | 5.3 | 119 | 0.00 |
| 13 | S | 4-Methylphenol-d8 | 20.000 | 17.669 | 11.7 | 114 | 0.00 |
| 14 | | Acetophenone | 20.000 | 18.281 | 8.6 | 113 | 0.00 |
| 15 | P | N-Nitroso-di-n-propylamine | 20.000 | 17.626 | 11.9 | 112 | 0.00 |
| 16 | | 4-Methylphenol | 20.000 | 18.002 | 10.0 | 114 | 0.00 |
| 17 | | Hexachloroethane | 20.000 | 19.273 | 3.6 | 124 | 0.00 |
| 18 | I | Naphthalene-d8 | 20.000 | 20.000 | 0.0 | 125 | 0.00 |
| 19 | S | Nitrobenzene-d5 | 20.000 | 18.957 | 5.2 | 113 | 0.00 |
| 20 | | Nitrobenzene | 20.000 | 19.438 | 2.8 | 115 | 0.00 |
| 21 | | Isophorone | 20.000 | 18.481 | 7.6 | 110 | 0.00 |
| 22 | S | 2-Nitrophenol-d4 | 20.000 | 18.755 | 6.2 | 111 | 0.00 |
| 23 | C | 2-Nitrophenol | 20.000 | 19.161 | 4.2 | 112 | 0.00 |
| 24 | | 2,4-Dimethylphenol | 20.000 | 19.124 | 4.4 | 114 | 0.00 |
| 25 | | Bis(2-Chloroethoxy)methane | 20.000 | 18.920 | 5.4 | 113 | 0.00 |
| 26 | S | 2,4-Dichlorophenol-d3 | 20.000 | 18.883 | 5.6 | 112 | 0.00 |
| 27 | C | 2,4-Dichlorophenol | 20.000 | 19.170 | 4.1 | 113 | 0.00 |
| 28 | | Naphthalene | 20.000 | 19.311 | 3.4 | 115 | 0.00 |
| 29 | S | 4-Chloroaniline-d4 | 20.000 | 20.457 | -2.3 | 111 | 0.00 |
| 30 | | 4-Chloroaniline | 20.000 | 20.530 | -2.7 | 110 | 0.00 |
| 31 | C | Hexachlorobutadiene | 20.000 | 19.997 | 0.0 | 121 | 0.00 |
| 32 | | Caprolactam | 20.000 | 15.727 | 21.4# | 95 | 0.00 |
| 33 | C | 4-Chloro-3-methylphenol | 20.000 | 17.915 | 10.4 | 106 | 0.00 |
| 34 | | 2-Methylnaphthalene | 20.000 | 18.824 | 5.9 | 112 | 0.00 |
| 35 | | 1-Methylnaphthalene | 20.000 | 18.718 | 6.4 | 111 | 0.00 |
| 36 | I | Acenaphthene-d10 | 20.000 | 20.000 | 0.0 | 115 | 0.00 |
| 37 | | 1,2,4,5-Tetrachlorobenzene | 20.000 | 20.188 | -0.9 | 112 | 0.00 |
| 38 | | Hexachlorocyclopentadiene | 20.000 | 15.151 | 24.2# | 108 | 0.00 |
| 39 | C | 2,4,6-Trichlorophenol | 20.000 | 18.577 | 7.1 | 103 | 0.00 |
| 40 | | 2,4,5-Trichlorophenol | 20.000 | 19.125 | 4.4 | 104 | 0.00 |
| 41 | | 1,1'-Biphenyl | 20.000 | 19.961 | 0.2 | 110 | 0.00 |
| 42 | | 2-Chloronaphthalene | 20.000 | 19.937 | 0.3 | 110 | 0.00 |
| 43 | | 2-Nitroaniline | 20.000 | 18.226 | 8.9 | 98 | 0.00 |
| 44 | S | Dimethylphthalate-d6 | 20.000 | 18.791 | 6.0 | 103 | 0.00 |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 45 | | Dimethylphthalate | 20.000 | 19.040 | 4.8 | 105 | 0.00 |
| 46 | | 2,6-Dinitrotoluene | 20.000 | 19.038 | 4.8 | 104 | 0.00 |
| 47 | S | Acenaphthylene-d8 | 20.000 | 19.599 | 2.0 | 108 | 0.00 |
| 48 | | Acenaphthylene | 20.000 | 19.579 | 2.1 | 107 | 0.00 |
| 49 | | 3-Nitroaniline | 20.000 | 18.993 | 5.0 | 99 | 0.00 |
| 50 | C | Acenaphthene | 20.000 | 19.453 | 2.7 | 107 | 0.00 |
| 51 | | 2,4-Dinitrophenol | 20.000 | 12.746 | 36.3# | 90 | 0.00 |
| 52 | S | 4-Nitrophenol-d4 | 20.000 | 15.742 | 21.3# | 91 | 0.00 |
| 53 | | 4-Nitrophenol | 20.000 | 15.848 | 20.8# | 91 | 0.00 |
| 54 | | Dibenzofuran | 20.000 | 19.612 | 1.9 | 107 | 0.00 |
| 55 | | 2,4-Dinitrotoluene | 20.000 | 18.846 | 5.8 | 102 | 0.00 |
| 56 | | 2,3,4,6-Tetrachlorophenol | 20.000 | 17.948 | 10.3 | 99 | 0.00 |
| 57 | | Diethylphthalate | 20.000 | 18.730 | 6.3 | 103 | 0.00 |
| 58 | S | Fluorene-d10 | 20.000 | 19.115 | 4.4 | 106 | 0.00 |
| 59 | | Fluorene | 20.000 | 19.314 | 3.4 | 105 | 0.00 |
| 60 | | 4-Chlorophenyl-phenylether | 20.000 | 19.413 | 2.9 | 105 | 0.00 |
| 61 | | 4-Nitroaniline | 20.000 | 18.058 | 9.7 | 97 | 0.00 |
| 62 | I | Phenanthrene-d10 | 20.000 | 20.000 | 0.0 | 107 | 0.00 |
| 63 | S | 4,6-Dinitro-2-methylphenol- | 20.000 | 17.554 | 12.2 | 96 | 0.00 |
| 64 | | 4,6-Dinitro-2-methylphenol | 20.000 | 17.858 | 10.7 | 98 | 0.00 |
| 65 | | N-Nitrosodiphenylamine | 20.000 | 20.379 | -1.9 | 104 | 0.00 |
| 66 | | 4-Bromophenyl-phenylether | 20.000 | 20.192 | -1.0 | 104 | 0.00 |
| 67 | | Hexachlorobenzene | 20.000 | 19.995 | 0.0 | 102 | 0.00 |
| 68 | | Atrazine | 20.000 | 19.403 | 3.0 | 97 | 0.00 |
| 69 | C | Pentachlorophenol | 20.000 | 14.655 | 26.7# | 84 | 0.00 |
| 70 | | Phenanthrene | 20.000 | 19.703 | 1.5 | 100 | 0.00 |
| 71 | S | Anthracene-d10 | 20.000 | 19.704 | 1.5 | 100 | 0.00 |
| 72 | | Anthracene | 20.000 | 19.676 | 1.6 | 100 | 0.00 |
| 73 | | 1,2,3,4-Tetrachlorobenzene | 20.000 | 21.579 | -7.9 | 110 | 0.00 |
| 74 | | Pentachlorobenzene | 20.000 | 20.847 | -4.2 | 106 | 0.00 |
| 75 | | Carbazole | 20.000 | 19.289 | 3.6 | 96 | 0.00 |
| 76 | | Di-n-butylphthalate | 20.000 | 17.541 | 12.3 | 93 | 0.00 |
| 77 | C | Fluoranthene | 20.000 | 18.591 | 7.0 | 91 | 0.00 |
| 78 | I | Chrysene-d12 | 20.000 | 20.000 | 0.0 | 81 | 0.00 |
| 79 | S | Pyrene-d10 | 20.000 | 22.869 | -14.3 | 89 | 0.00 |
| 80 | | Pyrene | 20.000 | 23.007 | -15.0 | 89 | 0.00 |
| 81 | | Butylbenzylphthalate | 20.000 | 19.603 | 2.0 | 77 | 0.00 |
| 82 | | 3,3'-Dichlorobenzidine | 20.000 | 19.100 | 4.5 | 69 | 0.00 |
| 83 | | Benzo(a)anthracene | 20.000 | 19.246 | 3.8 | 75 | 0.00 |
| 84 | | Bis(2-ethylhexyl)phthalate | 20.000 | 18.865 | 5.7 | 72 | 0.00 |
| 85 | | Chrysene | 20.000 | 19.604 | 2.0 | 76 | 0.00 |
| 86 | I | Perylene-d12 | 20.000 | 20.000 | 0.0 | 75 | 0.00 |
| 87 | | Di-n-octyl phthalate | 20.000 | 18.026 | 9.9 | 65 | 0.00 |

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|---|---|---|---|---|---|---|---|
| 88 | | Benzo(b)fluoranthene | 20.000 | 19.326 | 3.4 | 68 | 0.00 |
| 89 | | Benzo(k)fluoranthene | 20.000 | 18.761 | 6.2 | 68 | 0.00 |
| 90 | S | Benzo(a)pyrene-d12 | 20.000 | 19.216 | 3.9 | 68 | 0.00 |
| 91 | C | Benzo(a)pyrene | 20.000 | 19.272 | 3.6 | 68 | 0.00 |
| 92 | | Indeno(1,2,3-cd)pyrene | 20.000 | 22.956 | -14.8 | 79 | 0.00 |
| 93 | | Dibenzo(a,h)anthracene | 20.000 | 23.330 | -16.6 | 81 | 0.00 |
| 94 | | Benzo(g,h,i)perylene | 20.000 | 24.231 | -21.2# | 85 | 0.00 |

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