# Evaluate Continuing Calibration Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM031516\
Data File : BM004602.D
Acq On : 15 Mar 2016 17:45
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_M
**LabSampleId :** SSTD02048

Quant Time: Mar 16 05:37:15 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM031516.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Mar 15 15:09:04 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 | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 98 | 0.00 |
| 2 | | 1,4-Dioxane | 0.676 | 0.695 | -2.8 | 101 | 0.00 |
| 3 | S | 1,4-Dioxane-d8 | 0.580 | 0.584 | -0.7 | 100 | 0.00 |
| 4 | | Benzaldehyde | 0.911 | 0.943 | -3.5 | 96 | 0.00 |
| 5 | S | Phenol-d5 | 1.643 | 1.651 | -0.5 | 98 | 0.00 |
| 6 | | Phenol | 1.729 | 1.762 | -1.9 | 99 | 0.00 |
| 7 | S | Bis-(2-Chloroethyl)ether-d8 | 0.931 | 0.949 | -1.9 | 98 | 0.00 |
| 8 | | Bis(2-Chloroethyl)ether | 1.346 | 1.378 | -2.4 | 97 | 0.00 |
| 9 | S | 2-Chlorophenol-d4 | 1.323 | 1.317 | 0.5 | 98 | 0.00 |
| 10 | | 2-Chlorophenol | 1.397 | 1.396 | 0.1 | 98 | 0.00 |
| 11 | | 2-Methylphenol | 1.329 | 1.305 | 1.8 | 95 | 0.00 |
| 12 | | 2,2'-oxybis(1-Chloropropane | 1.610 | 1.652 | -2.6 | 98 | 0.00 |
| 13 | S | 4-Methylphenol-d8 | 1.325 | 1.297 | 2.1 | 94 | 0.00 |
| 14 | | Acetophenone | 2.067 | 2.123 | -2.7 | 95 | 0.00 |
| 15 | P | N-Nitroso-di-n-propylamine | 1.050 | 0.997 | 5.0 | 93 | 0.00 |
| 16 | | 4-Methylphenol | 1.463 | 1.443 | 1.4 | 95 | 0.00 |
| 17 | | Hexachloroethane | 0.555 | 0.542 | 2.3 | 95 | 0.00 |
| 18 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 95 | 0.00 |
| 19 | S | Nitrobenzene-d5 | 0.139 | 0.134 | 3.6 | 91 | 0.00 |
| 20 | | Nitrobenzene | 0.343 | 0.346 | -0.9 | 94 | 0.00 |
| 21 | | Isophorone | 0.657 | 0.636 | 3.2 | 91 | 0.00 |
| 22 | S | 2-Nitrophenol-d4 | 0.150 | 0.146 | 2.7 | 90 | 0.00 |
| 23 | C | 2-Nitrophenol | 0.166 | 0.165 | 0.6 | 92 | 0.00 |
| 24 | | 2,4-Dimethylphenol | 0.365 | 0.368 | -0.8 | 94 | 0.00 |
| 25 | | Bis(2-Chloroethoxy)methane | 0.424 | 0.423 | 0.2 | 94 | 0.00 |
| 26 | S | 2,4-Dichlorophenol-d3 | 0.295 | 0.291 | 1.4 | 93 | 0.00 |
| 27 | C | 2,4-Dichlorophenol | 0.304 | 0.302 | 0.7 | 94 | 0.00 |
| 28 | | Naphthalene | 1.043 | 1.057 | -1.3 | 96 | 0.00 |
| 29 | S | 4-Chloroaniline-d4 | 0.353 | 0.395 | -11.9 | 94 | 0.00 |
| 30 | | 4-Chloroaniline | 0.371 | 0.422 | -13.7 | 95 | 0.00 |
| 31 | C | Hexachlorobutadiene | 0.181 | 0.184 | -1.7 | 96 | 0.00 |
| 32 | | Caprolactam | 0.102 | 0.094 | 7.8 | 86 | 0.00 |
| 33 | C | 4-Chloro-3-methylphenol | 0.344 | 0.336 | 2.3 | 92 | 0.00 |
| 34 | | 2-Methylnaphthalene | 0.743 | 0.743 | 0.0 | 94 | 0.00 |
| 35 | | 1-Methylnaphthalene | 0.714 | 0.716 | -0.3 | 94 | 0.00 |
| 36 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 93 | 0.00 |
| 37 | | 1,2,4,5-Tetrachlorobenzene | 0.639 | 0.654 | -2.3 | 95 | 0.00 |
| 38 | | Hexachlorocyclopentadiene | 0.346 | 0.338 | 2.3 | 96 | 0.00 |
| 39 | C | 2,4,6-Trichlorophenol | 0.422 | 0.420 | 0.5 | 93 | 0.00 |
| 40 | | 2,4,5-Trichlorophenol | 0.455 | 0.450 | 1.1 | 92 | 0.00 |
| 41 | | 1,1'-Biphenyl | 1.670 | 1.700 | -1.8 | 94 | 0.00 |
| 42 | | 2-Chloronaphthalene | 1.256 | 1.277 | -1.7 | 94 | 0.00 |
| 43 | | 2-Nitroaniline | 0.338 | 0.319 | 5.6 | 88 | 0.00 |
| 44 | S | Dimethylphthalate-d6 | 1.563 | 1.557 | 0.4 | 92 | 0.00 |

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

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 45 | | Dimethylphthalate | 1.587 | 1.605 | -1.1 | 93 | 0.00 |
| 46 | | 2,6-Dinitrotoluene | 0.283 | 0.275 | 2.8 | 89 | 0.00 |
| 47 | S | Acenaphthylene-d8 | 1.917 | 1.941 | -1.3 | 92 | 0.00 |
| 48 | | Acenaphthylene | 2.060 | 2.112 | -2.5 | 94 | 0.00 |
| 49 | | 3-Nitroaniline | 0.305 | 0.319 | -4.6 | 90 | 0.00 |
| 50 | C | Acenaphthene | 1.387 | 1.413 | -1.9 | 94 | 0.00 |
| 51 | | 2,4-Dinitrophenol | 0.161 | 0.146 | 9.3 | 94 | 0.00 |
| 52 | S | 4-Nitrophenol-d4 | 0.302 | 0.301 | 0.3 | 92 | 0.00 |
| 53 | | 4-Nitrophenol | 0.245 | 0.251 | -2.4 | 93 | 0.00 |
| 54 | | Dibenzofuran | 1.974 | 2.007 | -1.7 | 94 | 0.00 |
| 55 | | 2,4-Dinitrotoluene | 0.426 | 0.426 | 0.0 | 92 | 0.00 |
| 56 | | 2,3,4,6-Tetrachlorophenol | 0.401 | 0.399 | 0.5 | 92 | 0.00 |
| 57 | | Diethylphthalate | 1.617 | 1.612 | 0.3 | 92 | 0.00 |
| 58 | S | Fluorene-d10 | 1.363 | 1.367 | -0.3 | 93 | 0.00 |
| 59 | | Fluorene | 1.576 | 1.624 | -3.0 | 94 | 0.00 |
| 60 | | 4-Chlorophenyl-phenylether | 0.752 | 0.763 | -1.5 | 92 | 0.00 |
| 61 | | 4-Nitroaniline | 0.328 | 0.331 | -0.9 | 97 | 0.00 |
| 62 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 93 | 0.00 |
| 63 | S | 4,6-Dinitro-2-methylphenol- | 0.105 | 0.099 | 5.7 | 93 | 0.00 |
| 64 | | 4,6-Dinitro-2-methylphenol | 0.114 | 0.110 | 3.5 | 95 | 0.00 |
| 65 | | N-Nitrosodiphenylamine | 0.606 | 0.622 | -2.6 | 93 | 0.00 |
| 66 | | 4-Bromophenyl-phenylether | 0.201 | 0.205 | -2.0 | 94 | 0.00 |
| 67 | | Hexachlorobenzene | 0.226 | 0.234 | -3.5 | 95 | 0.00 |
| 68 | | Atrazine | 0.214 | 0.216 | -0.9 | 92 | 0.00 |
| 69 | C | Pentachlorophenol | 0.147 | 0.141 | 4.1 | 90 | 0.00 |
| 70 | | Phenanthrene | 1.143 | 1.176 | -2.9 | 94 | 0.00 |
| 71 | S | Anthracene-d10 | 0.921 | 0.944 | -2.5 | 94 | 0.00 |
| 72 | | Anthracene | 1.151 | 1.191 | -3.5 | 94 | 0.00 |
| 73 | | 1,2,3,4-Tetrachlorobenzene | 0.275 | 0.281 | -2.2 | 94 | 0.00 |
| 74 | | Pentachlorobenzene | 0.266 | 0.274 | -3.0 | 94 | 0.00 |
| 75 | | Carbazole | 1.029 | 1.094 | -6.3 | 93 | 0.00 |
| 76 | | Di-n-butylphthalate | 1.459 | 1.197 | 18.0 | 83 | 0.00 |
| 77 | C | Fluoranthene | 1.262 | 1.341 | -6.3 | 93 | 0.00 |
| 78 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 96 | 0.00 |
| 79 | S | Pyrene-d10 | 0.913 | 0.899 | 1.5 | 93 | 0.00 |
| 80 | | Pyrene | 1.212 | 1.208 | 0.3 | 94 | 0.00 |
| 81 | | Butylbenzylphthalate | 0.485 | 0.439 | 9.5 | 87 | 0.00 |
| 82 | | 3,3'-Dichlorobenzidine | 0.309 | 0.328 | -6.1 | 97 | 0.00 |
| 83 | | Benzo(a)anthracene | 1.167 | 1.179 | -1.0 | 97 | 0.00 |
| 84 | | Bis(2-ethylhexyl)phthalate | 0.689 | 0.656 | 4.8 | 89 | 0.01 |
| 85 | | Chrysene | 1.115 | 1.138 | -2.1 | 97 | 0.00 |
| 86 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 98 | 0.00 |
| 87 | | Di-n-octyl phthalate | 1.196 | 1.146 | 4.2 | 89 | 0.00 |

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|---|---|---|---|---|---|---|---|
| 88 | | Benzo(b)fluoranthene | 1.193 | 1.168 | 2.1 | 92 | 0.00 |
| 89 | | Benzo(k)fluoranthene | 1.134 | 1.178 | -3.9 | 101 | 0.00 |
| 90 | S | Benzo(a)pyrene-d12 | 0.893 | 0.895 | -0.2 | 96 | 0.00 |
| 91 | C | Benzo(a)pyrene | 1.143 | 1.167 | -2.1 | 97 | 0.00 |
| 92 | | Indeno(1,2,3-cd)pyrene | 1.285 | 1.317 | -2.5 | 97 | 0.00 |
| 93 | | Dibenzo(a,h)anthracene | 1.063 | 1.097 | -3.2 | 97 | 0.00 |
| 94 | | Benzo(g,h,i)perylene | 1.088 | 1.113 | -2.3 | 97 | 0.00 |

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