# Evaluate Continuing Calibration Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052316\
Data File : BM005641.D
Acq On : 24 May 2016 11:59
Operator : UM/SJ
Sample : SSTDCCC020EC
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** BNA_M
**LabSampleId :** SSTD02034

Quant Time: May 24 14:44:36 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue May 24 06:55:29 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 | 196# | 0.00 |
| 2 | | 1,4-Dioxane | 0.806 | 0.747 | 7.3 | 180# | 0.00 |
| 3 | S | 1,4-Dioxane-d8 | 0.457 | 0.428 | 6.3 | 182# | 0.00 |
| 4 | | Benzaldehyde | 1.064 | 0.743 | 30.2# | 123 | 0.01 |
| 5 | S | Phenol-d5 | 1.639 | 1.632 | 0.4 | 185# | 0.02 |
| 6 | | Phenol | 1.689 | 1.687 | 0.1 | 183# | 0.02 |
| 7 | S | Bis-(2-Chloroethyl)ether-d8 | 0.950 | 0.943 | 0.7 | 184# | 0.00 |
| 8 | | Bis(2-Chloroethyl)ether | 1.276 | 1.280 | -0.3 | 185# | 0.00 |
| 9 | S | 2-Chlorophenol-d4 | 1.368 | 1.377 | -0.7 | 190# | 0.01 |
| 10 | | 2-Chlorophenol | 1.372 | 1.366 | 0.4 | 189# | 0.01 |
| 11 | | 2-Methylphenol | 1.280 | 1.256 | 1.9 | 182# | 0.02 |
| 12 | | 2,2'-oxybis(1-Chloropropane | 1.704 | 1.593 | 6.5 | 171# | 0.00 |
| 13 | S | 4-Methylphenol-d8 | 1.343 | 1.276 | 5.0 | 173# | 0.02 |
| 14 | | Acetophenone | 2.023 | 1.988 | 1.7 | 176# | 0.01 |
| 15 | P | N-Nitroso-di-n-propylamine | 1.068 | 0.976 | 8.6 | 167# | 0.01 |
| 16 | | 4-Methylphenol | 1.390 | 1.346 | 3.2 | 176# | 0.02 |
| 17 | | Hexachloroethane | 0.549 | 0.486 | 11.5 | 166# | 0.00 |
| 18 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 186# | 0.01 |
| 19 | S | Nitrobenzene-d5 | 0.153 | 0.154 | -0.7 | 184# | 0.00 |
| 20 | | Nitrobenzene | 0.370 | 0.356 | 3.8 | 174# | 0.01 |
| 21 | | Isophorone | 0.693 | 0.648 | 6.5 | 166# | 0.01 |
| 22 | S | 2-Nitrophenol-d4 | 0.168 | 0.162 | 3.6 | 173# | 0.01 |
| 23 | C | 2-Nitrophenol | 0.181 | 0.173 | 4.4 | 170# | 0.01 |
| 24 | | 2,4-Dimethylphenol | 0.374 | 0.350 | 6.4 | 169# | 0.02 |
| 25 | | Bis(2-Chloroethoxy)methane | 0.408 | 0.392 | 3.9 | 173# | 0.01 |
| 26 | S | 2,4-Dichlorophenol-d3 | 0.317 | 0.302 | 4.7 | 171# | 0.02 |
| 27 | C | 2,4-Dichlorophenol | 0.312 | 0.298 | 4.5 | 169# | 0.02 |
| 28 | | Naphthalene | 1.005 | 0.983 | 2.2 | 176# | 0.01 |
| 29 | S | 4-Chloroaniline-d4 | 0.318 | 0.393 | -23.6# | 222# | 0.01 |
| 30 | | 4-Chloroaniline | 0.325 | 0.397 | -22.2# | 217# | 0.01 |
| 31 | C | Hexachlorobutadiene | 0.209 | 0.194 | 7.2 | 171# | 0.00 |
| 32 | | Caprolactam | 0.104 | 0.093 | 10.6 | 160# | 0.02 |
| 33 | C | 4-Chloro-3-methylphenol | 0.342 | 0.311 | 9.1 | 160# | 0.02 |
| 34 | | 2-Methylnaphthalene | 0.735 | 0.691 | 6.0 | 168# | 0.01 |
| 35 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 166# | 0.01 |
| 36 | | 1,2,4,5-Tetrachlorobenzene | 0.683 | 0.687 | -0.6 | 160# | 0.01 |
| 37 | | Hexachlorocyclopentadiene | 0.429 | 0.041 | 90.4# | 16# | 0.00 |
| 38 | C | 2,4,6-Trichlorophenol | 0.445 | 0.435 | 2.2 | 157# | 0.01 |
| 39 | | 2,4,5-Trichlorophenol | 0.490 | 0.462 | 5.7 | 151# | 0.02 |
| 40 | | 1,1'-Biphenyl | 1.679 | 1.669 | 0.6 | 161# | 0.00 |
| 41 | | 2-Chloronaphthalene | 1.294 | 1.294 | 0.0 | 162# | 0.01 |
| 42 | | 2-Nitroaniline | 0.389 | 0.381 | 2.1 | 156# | 0.01 |
| 43 | S | Dimethylphthalate-d6 | 1.633 | 1.530 | 6.3 | 152# | 0.01 |
| 44 | | Dimethylphthalate | 1.613 | 1.523 | 5.6 | 155# | 0.00 |

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| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 45 | | 2,6-Dinitrotoluene | 0.326 | 0.313 | 4.0 | 156# | 0.01 |
| 46 | S | Acenaphthylene-d8 | 2.041 | 2.030 | 0.5 | 159# | 0.01 |
| 47 | | Acenaphthylene | 2.074 | 2.077 | -0.1 | 160# | 0.01 |
| 48 | | 3-Nitroaniline | 0.302 | 0.371 | -22.8# | 193# | 0.02 |
| 49 | C | Acenaphthene | 1.367 | 1.344 | 1.7 | 158# | 0.01 |
| 50 | | 2,4-Dinitrophenol | 0.183 | 0.020 | 89.1# | 19# | 0.03 |
| 51 | S | 4-Nitrophenol-d4 | 0.309 | 0.246 | 20.4# | 127 | 0.03 |
| 52 | | 4-Nitrophenol | 0.310 | 0.200 | 35.5# | 106 | 0.03 |
| 53 | | Dibenzofuran | 1.953 | 1.890 | 3.2 | 156# | 0.01 |
| 54 | | 2,4-Dinitrotoluene | 0.476 | 0.435 | 8.6 | 147 | 0.02 |
| 55 | | 2,3,4,6-Tetrachlorophenol | 0.429 | 0.312 | 27.3# | 118 | 0.02 |
| 56 | | Diethylphthalate | 1.645 | 1.536 | 6.6 | 151# | 0.01 |
| 57 | S | Fluorene-d10 | 1.421 | 1.354 | 4.7 | 155# | 0.01 |
| 58 | | Fluorene | 1.563 | 1.493 | 4.5 | 154# | 0.01 |
| 59 | | 4-Chlorophenyl-phenylether | 0.781 | 0.732 | 6.3 | 150# | 0.01 |
| 60 | | 4-Nitroaniline | 0.369 | 0.383 | -3.8 | 164# | 0.01 |
| 61 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 157# | 0.01 |
| 62 | S | 4,6-Dinitro-2-methylphenol- | 0.115 | 0.031 | 73.0# | 42 | 0.03 |
| 63 | | 4,6-Dinitro-2-methylphenol | 0.121 | 0.032 | 73.6# | 41 | 0.02 |
| 64 | | N-Nitrosodiphenylamine | 0.607 | 0.614 | -1.2 | 153# | 0.01 |
| 65 | | 4-Bromophenyl-phenylether | 0.223 | 0.217 | 2.7 | 148 | 0.01 |
| 66 | | Hexachlorobenzene | 0.254 | 0.241 | 5.1 | 143 | 0.02 |
| 67 | | Atrazine | 0.227 | 0.218 | 4.0 | 143 | 0.01 |
| 68 | C | Pentachlorophenol | 0.152 | 0.046 | 69.7# | 46 | 0.02 |
| 69 | | Phenanthrene | 1.118 | 1.090 | 2.5 | 149 | 0.01 |
| 70 | S | Anthracene-d10 | 0.953 | 0.947 | 0.6 | 151# | 0.02 |
| 71 | | Anthracene | 1.139 | 1.111 | 2.5 | 149 | 0.02 |
| 72 | | Carbazole | 0.989 | 1.014 | -2.5 | 151# | 0.02 |
| 73 | | Di-n-butylphthalate | 1.200 | 1.239 | -3.3 | 155# | 0.01 |
| 74 | C | Fluoranthene | 1.258 | 1.204 | 4.3 | 140 | 0.02 |
| 75 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 127 | 0.02 |
| 76 | S | Pyrene-d10 | 0.906 | 1.016 | -12.1 | 138 | 0.01 |
| 77 | | Pyrene | 1.150 | 1.294 | -12.5 | 138 | 0.01 |
| 78 | | Butylbenzylphthalate | 0.485 | 0.566 | -16.7 | 143 | 0.00 |
| 79 | | 3,3'-Dichlorobenzidine | 0.363 | 0.374 | -3.0 | 116 | 0.01 |
| 80 | | Benzo(a)anthracene | 1.176 | 1.165 | 0.9 | 122 | 0.02 |
| 81 | | Bis(2-ethylhexyl)phthalate | 0.684 | 0.765 | -11.8 | 136 | 0.01 |
| 82 | | Chrysene | 1.118 | 1.091 | 2.4 | 119 | 0.02 |
| 83 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 123 | 0.03 |
| 84 | | Di-n-octyl phthalate | 1.147 | 1.309 | -14.1 | 132 | 0.02 |
| 85 | | Benzo(b)fluoranthene | 1.180 | 1.140 | 3.4 | 118 | 0.03 |
| 86 | | Benzo(k)fluoranthene | 1.117 | 1.134 | -1.5 | 120 | 0.02 |
| 87 | S | Benzo(a)pyrene-d12 | 0.934 | 0.914 | 2.1 | 118 | 0.02 |

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|---|---|---|---|---|---|---|
| 88 C | Benzo(a)pyrene | 1.144 | 1.126 | 1.6 | 118 | 0.02 |
| 89 | Indeno(1,2,3-cd)pyrene | 1.359 | 1.317 | 3.1 | 115 | 0.05 |
| 90 | Dibenzo(a,h)anthracene | 1.132 | 1.102 | 2.7 | 115 | 0.04 |
| 91 | Benzo(g,h,i)perylene | 1.143 | 1.102 | 3.6 | 116 | 0.05 |

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