# Evaluate Continuing Calibration Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM092917\
Data File : BM011786.D
Acq On : 30 Sep 2017 02:39
Operator : SJ/JU
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** BNA_M
**LabSampleId :** SSTD02099

Quant Time: Sep 30 06:35:17 2017
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM092717.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat Sep 30 00:51:32 2017
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 | 157# | 0.05 |
| 2 | | 1,4-Dioxane | 0.499 | 0.423 | 15.2 | 130 | 0.06 |
| 3 | S | 1,4-Dioxane-d8 | 0.449 | 0.409 | 8.9 | 140 | 0.07 |
| 4 | | Benzaldehyde | 0.965 | 1.084 | -12.3 | 150# | 0.05 |
| 5 | S | Phenol-d5 | 1.967 | 1.797 | 8.6 | 150# | 0.06 |
| 6 | | Phenol | 1.989 | 1.833 | 7.8 | 151# | 0.05 |
| 7 | S | Bis-(2-Chloroethyl)ether-d8 | 1.427 | 1.301 | 8.8 | 147 | 0.05 |
| 8 | | Bis(2-Chloroethyl)ether | 1.530 | 1.440 | 5.9 | 151# | 0.05 |
| 9 | S | 2-Chlorophenol-d4 | 1.463 | 1.481 | -1.2 | 158# | 0.05 |
| 10 | | 2-Chlorophenol | 1.428 | 1.410 | 1.3 | 153# | 0.06 |
| 11 | | 2-Methylphenol | 1.461 | 1.369 | 6.3 | 152# | 0.05 |
| 12 | | 2,2'-oxybis(1-Chloropropane | 3.276 | 3.013 | 8.0 | 145 | 0.05 |
| 13 | S | 4-Methylphenol-d8 | 1.541 | 1.440 | 6.6 | 152# | 0.06 |
| 14 | | Acetophenone | 2.476 | 2.309 | 6.7 | 151# | 0.06 |
| 15 | P | N-Nitroso-di-n-propylamine | 1.397 | 1.294 | 7.4 | 143 | 0.05 |
| 16 | | 4-Methylphenol | 1.606 | 1.509 | 6.0 | 153# | 0.05 |
| 17 | | Hexachloroethane | 0.630 | 0.623 | 1.1 | 155# | 0.06 |
| 18 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 156# | 0.06 |
| 19 | S | Nitrobenzene-d5 | 0.156 | 0.158 | -1.3 | 156# | 0.05 |
| 20 | | Nitrobenzene | 0.429 | 0.421 | 1.9 | 155# | 0.06 |
| 21 | | Isophorone | 0.805 | 0.764 | 5.1 | 147 | 0.05 |
| 22 | S | 2-Nitrophenol-d4 | 0.166 | 0.176 | -6.0 | 166# | 0.06 |
| 23 | C | 2-Nitrophenol | 0.173 | 0.181 | -4.6 | 160# | 0.05 |
| 24 | | 2,4-Dimethylphenol | 0.394 | 0.388 | 1.5 | 152# | 0.05 |
| 25 | | Bis(2-Chloroethoxy)methane | 0.466 | 0.448 | 3.9 | 149 | 0.06 |
| 26 | S | 2,4-Dichlorophenol-d3 | 0.318 | 0.324 | -1.9 | 160# | 0.06 |
| 27 | C | 2,4-Dichlorophenol | 0.302 | 0.312 | -3.3 | 158# | 0.06 |
| 28 | | Naphthalene | 1.045 | 1.018 | 2.6 | 152# | 0.06 |
| 29 | S | 4-Chloroaniline-d4 | 0.351 | 0.399 | -13.7 | 154# | 0.05 |
| 30 | | 4-Chloroaniline | 0.340 | 0.381 | -12.1 | 154# | 0.05 |
| 31 | C | Hexachlorobutadiene | 0.213 | 0.211 | 0.9 | 158# | 0.06 |
| 32 | | Caprolactam | 0.098 | 0.093 | 5.1 | 155# | 0.05 |
| 33 | C | 4-Chloro-3-methylphenol | 0.342 | 0.336 | 1.8 | 152# | 0.05 |
| 34 | | 2-Methylnaphthalene | 0.741 | 0.725 | 2.2 | 154# | 0.05 |
| 35 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 149 | 0.05 |
| 36 | | 1,2,4,5-Tetrachlorobenzene | 0.676 | 0.687 | -1.6 | 151# | 0.05 |
| 37 | | Hexachlorocyclopentadiene | 0.435 | 0.291 | 33.1# | 111 | 0.05 |
| 38 | C | 2,4,6-Trichlorophenol | 0.434 | 0.459 | -5.8 | 159# | 0.05 |
| 39 | | 2,4,5-Trichlorophenol | 0.449 | 0.467 | -4.0 | 154# | 0.05 |
| 40 | | 1,1'-Biphenyl | 1.647 | 1.627 | 1.2 | 148 | 0.05 |
| 41 | | 2-Chloronaphthalene | 1.262 | 1.287 | -2.0 | 152# | 0.05 |
| 42 | | 2-Nitroaniline | 0.464 | 0.471 | -1.5 | 149 | 0.05 |
| 43 | S | Dimethylphthalate-d6 | 1.715 | 1.665 | 2.9 | 144 | 0.05 |
| 44 | | Dimethylphthalate | 1.641 | 1.586 | 3.4 | 143 | 0.05 |

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| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 45 | | 2,6-Dinitrotoluene | 0.302 | 0.316 | -4.6 | 154# | 0.05 |
| 46 | S | Acenaphthylene-d8 | 2.074 | 2.091 | -0.8 | 149 | 0.05 |
| 47 | | Acenaphthylene | 2.081 | 2.051 | 1.4 | 148 | 0.05 |
| 48 | | 3-Nitroaniline | 0.309 | 0.316 | -2.3 | 158# | 0.05 |
| 49 | C | Acenaphthene | 1.417 | 1.371 | 3.2 | 145 | 0.05 |
| 50 | | 2,4-Dinitrophenol | 0.198 | 0.113 | 42.9# | 98 | 0.05 |
| 51 | S | 4-Nitrophenol-d4 | 0.293 | 0.270 | 7.8 | 147 | 0.05 |
| 52 | | 4-Nitrophenol | 0.287 | 0.250 | 12.9 | 138 | 0.05 |
| 53 | | Dibenzofuran | 1.946 | 1.903 | 2.2 | 146 | 0.05 |
| 54 | | 2,4-Dinitrotoluene | 0.431 | 0.423 | 1.9 | 143 | 0.05 |
| 55 | | 2,3,4,6-Tetrachlorophenol | 0.415 | 0.412 | 0.7 | 147 | 0.05 |
| 56 | | Diethylphthalate | 1.725 | 1.655 | 4.1 | 143 | 0.05 |
| 57 | S | Fluorene-d10 | 1.477 | 1.432 | 3.0 | 146 | 0.05 |
| 58 | | Fluorene | 1.648 | 1.560 | 5.3 | 143 | 0.05 |
| 59 | | 4-Chlorophenyl-phenylether | 0.829 | 0.797 | 3.9 | 148 | 0.05 |
| 60 | | 4-Nitroaniline | 0.339 | 0.330 | 2.7 | 167# | 0.05 |
| 61 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 141 | 0.05 |
| 62 | S | 4,6-Dinitro-2-methylphenol- | 0.135 | 0.096 | 28.9# | 113 | 0.05 |
| 63 | | 4,6-Dinitro-2-methylphenol | 0.138 | 0.099 | 28.3# | 115 | 0.05 |
| 64 | | N-Nitrosodiphenylamine | 0.591 | 0.588 | 0.5 | 142 | 0.05 |
| 65 | | 4-Bromophenyl-phenylether | 0.220 | 0.220 | 0.0 | 146 | 0.05 |
| 66 | | Hexachlorobenzene | 0.244 | 0.250 | -2.5 | 148 | 0.05 |
| 67 | | Atrazine | 0.229 | 0.219 | 4.4 | 145 | 0.05 |
| 68 | C | Pentachlorophenol | 0.161 | 0.146 | 9.3 | 146 | 0.05 |
| 69 | | Phenanthrene | 1.119 | 1.075 | 3.9 | 140 | 0.05 |
| 70 | S | Anthracene-d10 | 1.018 | 0.993 | 2.5 | 142 | 0.05 |
| 71 | | Anthracene | 1.153 | 1.121 | 2.8 | 140 | 0.05 |
| 72 | | Carbazole | 1.010 | 0.936 | 7.3 | 138 | 0.05 |
| 73 | | Di-n-butylphthalate | 1.301 | 1.312 | -0.8 | 144 | 0.05 |
| 74 | C | Fluoranthene | 1.367 | 1.229 | 10.1 | 133 | 0.05 |
| 75 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 98 | 0.05 |
| 76 | S | Pyrene-d10 | 0.955 | 1.245 | -30.4# | 128 | 0.05 |
| 77 | | Pyrene | 1.192 | 1.532 | -28.5# | 125 | 0.05 |
| 78 | | Butylbenzylphthalate | 0.498 | 0.706 | -41.8# | 136 | 0.04 |
| 79 | | 3,3'-Dichlorobenzidine | 0.380 | 0.318 | 16.3 | 82 | 0.04 |
| 80 | | Benzo(a)anthracene | 1.119 | 1.176 | -5.1 | 101 | 0.05 |
| 81 | | Bis(2-ethylhexyl)phthalate | 0.744 | 1.024 | -37.6# | 132 | 0.04 |
| 82 | | Chrysene | 1.055 | 1.083 | -2.7 | 99 | 0.05 |
| 83 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 80 | 0.08 |
| 84 | | Di-n-octyl phthalate | 1.546 | 2.069 | -33.8# | 121 | 0.05 |
| 85 | | Benzo(b)fluoranthene | 1.180 | 1.230 | -4.2 | 84 | 0.07 |
| 86 | | Benzo(k)fluoranthene | 1.204 | 1.136 | 5.6 | 84 | 0.07 |
| 87 | S | Benzo(a)pyrene-d12 | 0.958 | 0.953 | 0.5 | 82 | 0.08 |

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|---|---|---|---|---|---|---|
| 88 C | Benzo(a)pyrene | 1.140 | 1.096 | 3.9 | 80 | 0.08 |
| 89 | Indeno(1,2,3-cd)pyrene | 1.187 | 1.235 | -4.0 | 82 | 0.12 |
| 90 | Dibenzo(a,h)anthracene | 0.994 | 1.044 | -5.0 | 82 | 0.12 |
| 91 | Benzo(g,h,i)perylene | 0.985 | 1.047 | -6.3 | 81 | 0.14 |

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