# Evaluate Continuing Calibration Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM040516\
Data File : BM004897.D
Acq On : 06 Apr 2016 01:19
Operator : UM/SJ
Sample : SSTDCCC020EC
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** BNA_M
**LabSampleId :** SSTD02064

Quant Time: Apr 06 03:36:28 2016
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM040116.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Apr 06 01:39:16 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 | 120 | 0.00 |
| 2 | | 1,4-Dioxane | 0.602 | 0.596 | 1.0 | 116 | 0.00 |
| 3 | S | 1,4-Dioxane-d8 | 0.494 | 0.506 | -2.4 | 117 | 0.00 |
| 4 | | Benzaldehyde | 0.829 | 0.906 | -9.3 | 106 | 0.00 |
| 5 | S | Phenol-d5 | 1.777 | 1.615 | 9.1 | 109 | 0.00 |
| 6 | | Phenol | 1.856 | 1.721 | 7.3 | 111 | 0.00 |
| 7 | S | Bis-(2-Chloroethyl)ether-d8 | 0.963 | 0.915 | 5.0 | 110 | 0.00 |
| 8 | | Bis(2-Chloroethyl)ether | 1.406 | 1.323 | 5.9 | 111 | 0.00 |
| 9 | S | 2-Chlorophenol-d4 | 1.349 | 1.277 | 5.3 | 112 | 0.00 |
| 10 | | 2-Chlorophenol | 1.420 | 1.341 | 5.6 | 111 | 0.00 |
| 11 | | 2-Methylphenol | 1.465 | 1.321 | 9.8 | 109 | 0.00 |
| 12 | | 2,2'-oxybis(1-Chloropropane | 1.715 | 1.665 | 2.9 | 114 | 0.00 |
| 13 | S | 4-Methylphenol-d8 | 1.493 | 1.335 | 10.6 | 108 | 0.00 |
| 14 | | Acetophenone | 2.257 | 2.141 | 5.1 | 110 | 0.00 |
| 15 | P | N-Nitroso-di-n-propylamine | 1.142 | 1.040 | 8.9 | 105 | 0.00 |
| 16 | | 4-Methylphenol | 1.632 | 1.498 | 8.2 | 110 | 0.00 |
| 17 | | Hexachloroethane | 0.545 | 0.501 | 8.1 | 108 | 0.00 |
| 18 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 117 | 0.00 |
| 19 | S | Nitrobenzene-d5 | 0.142 | 0.132 | 7.0 | 106 | 0.00 |
| 20 | | Nitrobenzene | 0.340 | 0.332 | 2.4 | 112 | 0.00 |
| 21 | | Isophorone | 0.678 | 0.627 | 7.5 | 105 | 0.00 |
| 22 | S | 2-Nitrophenol-d4 | 0.158 | 0.146 | 7.6 | 106 | 0.00 |
| 23 | C | 2-Nitrophenol | 0.172 | 0.165 | 4.1 | 109 | 0.00 |
| 24 | | 2,4-Dimethylphenol | 0.364 | 0.353 | 3.0 | 109 | 0.00 |
| 25 | | Bis(2-Chloroethoxy)methane | 0.422 | 0.399 | 5.5 | 109 | 0.00 |
| 26 | S | 2,4-Dichlorophenol-d3 | 0.294 | 0.286 | 2.7 | 110 | 0.00 |
| 27 | C | 2,4-Dichlorophenol | 0.304 | 0.300 | 1.3 | 112 | 0.00 |
| 28 | | Naphthalene | 1.011 | 0.981 | 3.0 | 112 | 0.00 |
| 29 | S | 4-Chloroaniline-d4 | 0.351 | 0.395 | -12.5 | 109 | 0.00 |
| 30 | | 4-Chloroaniline | 0.370 | 0.414 | -11.9 | 110 | 0.00 |
| 31 | C | Hexachlorobutadiene | 0.185 | 0.176 | 4.9 | 110 | 0.00 |
| 32 | | Caprolactam | 0.115 | 0.091 | 20.9# | 94 | 0.00 |
| 33 | C | 4-Chloro-3-methylphenol | 0.348 | 0.341 | 2.0 | 109 | 0.00 |
| 34 | | 2-Methylnaphthalene | 0.753 | 0.736 | 2.3 | 111 | 0.00 |
| 35 | | 1-Methylnaphthalene | 0.730 | 0.712 | 2.5 | 111 | 0.00 |
| 36 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 122 | 0.00 |
| 37 | | 1,2,4,5-Tetrachlorobenzene | 0.619 | 0.585 | 5.5 | 112 | 0.00 |
| 38 | | Hexachlorocyclopentadiene | 0.368 | 0.312 | 15.2 | 105 | 0.00 |
| 39 | C | 2,4,6-Trichlorophenol | 0.409 | 0.379 | 7.3 | 110 | 0.00 |
| 40 | | 2,4,5-Trichlorophenol | 0.449 | 0.421 | 6.2 | 111 | 0.00 |
| 41 | | 1,1'-Biphenyl | 1.624 | 1.543 | 5.0 | 113 | 0.00 |
| 42 | | 2-Chloronaphthalene | 1.223 | 1.166 | 4.7 | 114 | 0.00 |
| 43 | | 2-Nitroaniline | 0.352 | 0.326 | 7.4 | 110 | 0.00 |
| 44 | S | Dimethylphthalate-d6 | 1.578 | 1.501 | 4.9 | 113 | 0.00 |

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| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 45 | | Dimethylphthalate | 1.607 | 1.556 | 3.2 | 115 | 0.00 |
| 46 | | 2,6-Dinitrotoluene | 0.313 | 0.301 | 3.8 | 114 | 0.00 |
| 47 | S | Acenaphthylene-d8 | 1.888 | 1.802 | 4.6 | 113 | 0.00 |
| 48 | | Acenaphthylene | 2.009 | 1.929 | 4.0 | 113 | 0.00 |
| 49 | | 3-Nitroaniline | 0.320 | 0.323 | -0.9 | 114 | 0.00 |
| 50 | C | Acenaphthene | 1.346 | 1.284 | 4.6 | 113 | 0.00 |
| 51 | | 2,4-Dinitrophenol | 0.208 | 0.159 | 23.6# | 104 | 0.00 |
| 52 | S | 4-Nitrophenol-d4 | 0.312 | 0.289 | 7.4 | 113 | 0.00 |
| 53 | | 4-Nitrophenol | 0.256 | 0.248 | 3.1 | 117 | 0.00 |
| 54 | | Dibenzofuran | 1.953 | 1.902 | 2.6 | 116 | 0.00 |
| 55 | | 2,4-Dinitrotoluene | 0.471 | 0.467 | 0.8 | 117 | 0.00 |
| 56 | | 2,3,4,6-Tetrachlorophenol | 0.399 | 0.382 | 4.3 | 112 | 0.00 |
| 57 | | Diethylphthalate | 1.627 | 1.568 | 3.6 | 114 | 0.00 |
| 58 | S | Fluorene-d10 | 1.364 | 1.325 | 2.9 | 116 | 0.00 |
| 59 | | Fluorene | 1.556 | 1.516 | 2.6 | 113 | 0.00 |
| 60 | | 4-Chlorophenyl-phenylether | 0.757 | 0.743 | 1.8 | 114 | 0.00 |
| 61 | | 4-Nitroaniline | 0.375 | 0.355 | 5.3 | 116 | 0.00 |
| 62 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 126 | 0.00 |
| 63 | S | 4,6-Dinitro-2-methylphenol- | 0.120 | 0.105 | 12.5 | 114 | 0.00 |
| 64 | | 4,6-Dinitro-2-methylphenol | 0.128 | 0.115 | 10.2 | 114 | 0.00 |
| 65 | | N-Nitrosodiphenylamine | 0.580 | 0.541 | 6.7 | 115 | 0.00 |
| 66 | | 4-Bromophenyl-phenylether | 0.199 | 0.187 | 6.0 | 115 | 0.00 |
| 67 | | Hexachlorobenzene | 0.227 | 0.214 | 5.7 | 116 | 0.00 |
| 68 | | Atrazine | 0.213 | 0.202 | 5.2 | 114 | 0.00 |
| 69 | C | Pentachlorophenol | 0.141 | 0.126 | 10.6 | 115 | 0.00 |
| 70 | | Phenanthrene | 1.103 | 1.050 | 4.8 | 117 | 0.00 |
| 71 | S | Anthracene-d10 | 0.895 | 0.857 | 4.2 | 118 | 0.00 |
| 72 | | Anthracene | 1.106 | 1.061 | 4.1 | 117 | 0.00 |
| 73 | | 1,2,3,4-Tetrachlorobenzene | 0.260 | 0.236 | 9.2 | 114 | 0.00 |
| 74 | | Pentachlorobenzene | 0.260 | 0.239 | 8.1 | 115 | 0.00 |
| 75 | | Carbazole | 0.987 | 0.974 | 1.3 | 117 | 0.00 |
| 76 | | Di-n-butylphthalate | 1.172 | 1.076 | 8.2 | 111 | 0.00 |
| 77 | C | Fluoranthene | 1.225 | 1.254 | -2.4 | 118 | 0.00 |
| 78 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 126 | 0.00 |
| 79 | S | Pyrene-d10 | 0.868 | 0.832 | 4.1 | 119 | 0.00 |
| 80 | | Pyrene | 1.145 | 1.095 | 4.4 | 118 | 0.00 |
| 81 | | Butylbenzylphthalate | 0.485 | 0.422 | 13.0 | 105 | 0.00 |
| 82 | | 3,3'-Dichlorobenzidine | 0.390 | 0.372 | 4.6 | 106 | 0.00 |
| 83 | | Benzo(a)anthracene | 1.147 | 1.101 | 4.0 | 118 | 0.00 |
| 84 | | Bis(2-ethylhexyl)phthalate | 0.694 | 0.614 | 11.5 | 106 | 0.00 |
| 85 | | Chrysene | 1.088 | 1.044 | 4.0 | 118 | 0.00 |
| 86 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 123 | 0.00 |
| 87 | | Di-n-octyl phthalate | 1.184 | 1.085 | 8.4 | 106 | 0.00 |

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| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 88 | | Benzo(b)fluoranthene | 1.146 | 1.146 | 0.0 | 123 | 0.00 |
| 89 | | Benzo(k)fluoranthene | 1.099 | 1.035 | 5.8 | 111 | 0.00 |
| 90 | S | Benzo(a)pyrene-d12 | 0.886 | 0.839 | 5.3 | 114 | 0.00 |
| 91 | C | Benzo(a)pyrene | 1.112 | 1.066 | 4.1 | 115 | 0.00 |
| 92 | | Indeno(1,2,3-cd)pyrene | 1.326 | 1.165 | 12.1 | 105 | 0.00 |
| 93 | | Dibenzo(a,h)anthracene | 1.102 | 0.988 | 10.3 | 107 | -0.01 |
| 94 | | Benzo(g,h,i)perylene | 1.139 | 0.966 | 15.2 | 102 | 0.00 |

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