# Evaluate Continuing Calibration Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG071016\
Data File : BG022998.D
Acq On : 10 Jul 2016 13:28
Operator : UM/SJ
Sample : SSTDCCC040
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_G
**LabSampleId :** SSTDCCC040

Quant Time: Jul 11 02:37:10 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG070816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 07 16:51:07 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 145 | 0.00 |
| 2 | | 1,4-Dioxane | 0.475 | 0.463 | 2.5 | 147 | 0.00 |
| 3 | | Pyridine | 1.627 | 1.642 | -0.9 | 147 | 0.00 |
| 4 | | n-Nitrosodimethylamine | 0.698 | 0.708 | -1.4 | 146 | 0.00 |
| 5 | S | 2-Fluorophenol | 1.223 | 1.224 | -0.1 | 148 | 0.00 |
| 6 | | Aniline | 2.654 | 2.747 | -3.5 | 149 | 0.00 |
| 7 | S | Phenol-d6 | 1.915 | 1.962 | -2.5 | 146 | 0.00 |
| 8 | | 2-Chlorophenol | 1.301 | 1.373 | -5.5 | 154# | 0.00 |
| 9 | | Benzaldehyde | 1.280 | 1.256 | 1.9 | 145 | 0.00 |
| 10 | C | Phenol | 1.971 | 2.021 | -2.5 | 147 | 0.00 |
| 11 | | bis(2-Chloroethyl)ether | 1.562 | 1.553 | 0.6 | 145 | 0.00 |
| 12 | | 1,3-Dichlorobenzene | 1.593 | 1.571 | 1.4 | 148 | 0.00 |
| 13 | C | 1,4-Dichlorobenzene | 1.595 | 1.602 | -0.4 | 148 | 0.00 |
| 14 | | 1,2-Dichlorobenzene | 1.585 | 1.608 | -1.5 | 153# | 0.00 |
| 15 | | Benzyl Alcohol | 1.754 | 1.816 | -3.5 | 146 | 0.00 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 1.908 | 1.970 | -3.2 | 151# | 0.00 |
| 17 | | 2-Methylphenol | 1.283 | 1.333 | -3.9 | 150# | 0.00 |
| 18 | | Hexachloroethane | 0.673 | 0.667 | 0.9 | 155# | 0.00 |
| 19 | P | n-Nitroso-di-n-propylamine | 1.727 | 1.691 | 2.1 | 138 | 0.00 |
| 20 | | 3+4-Methylphenols | 1.789 | 1.873 | -4.7 | 143 | 0.00 |
| 21 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 139 | 0.00 |
| 22 | | Acetophenone | 0.600 | 0.579 | 3.5 | 135 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 0.467 | 0.468 | -0.2 | 140 | 0.00 |
| 24 | | Nitrobenzene | 0.496 | 0.511 | -3.0 | 147 | 0.00 |
| 25 | | Isophorone | 0.939 | 0.880 | 6.3 | 127 | 0.00 |
| 26 | C | 2-Nitrophenol | 0.195 | 0.199 | -2.1 | 134 | 0.00 |
| 27 | | 2,4-Dimethylphenol | 0.337 | 0.333 | 1.2 | 139 | 0.00 |
| 28 | | bis(2-Chloroethoxy)methane | 0.524 | 0.513 | 2.1 | 134 | 0.00 |
| 29 | C | 2,4-Dichlorophenol | 0.359 | 0.360 | -0.3 | 136 | 0.00 |
| 30 | | 1,2,4-Trichlorobenzene | 0.411 | 0.421 | -2.4 | 143 | 0.00 |
| 31 | | Naphthalene | 1.018 | 1.023 | -0.5 | 141 | 0.00 |
| 32 | | Benzoic acid | 0.306 | 0.309 | -1.0 | 132 | 0.03 |
| 33 | | 4-Chloroaniline | 0.498 | 0.497 | 0.2 | 139 | 0.00 |
| 34 | C | Hexachlorobutadiene | 0.334 | 0.326 | 2.4 | 139 | 0.00 |
| 35 | | Caprolactam | 0.148 | 0.123 | 16.9 | 116 | 0.02 |
| 36 | C | 4-Chloro-3-methylphenol | 0.491 | 0.468 | 4.7 | 130 | 0.00 |
| 37 | | 2-Methylnaphthalene | 0.805 | 0.786 | 2.4 | 133 | 0.00 |
| 38 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 126 | 0.00 |
| 39 | | 1,2,4,5-Tetrachlorobenzene | 0.862 | 0.883 | -2.4 | 131 | 0.00 |
| 40 | P | Hexachlorocyclopentadiene | 0.496 | 0.417 | 15.9 | 107 | 0.00 |
| 41 | S | 2,4,6-Tribromophenol | 0.359 | 0.307 | 14.5 | 111 | 0.00 |
| 42 | C | 2,4,6-Trichlorophenol | 0.495 | 0.484 | 2.2 | 123 | 0.00 |
| 43 | | 2,4,5-Trichlorophenol | 0.509 | 0.494 | 2.9 | 125 | 0.00 |
| 44 | S | 2-Fluorobiphenyl | 1.270 | 1.208 | 4.9 | 124 | 0.00 |

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| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 45 | | 1,1'-Biphenyl | 1.501 | 1.496 | 0.3 | 127 | 0.00 |
| 46 | | 2-Chloronaphthalene | 1.217 | 1.236 | -1.6 | 129 | 0.00 |
| 47 | | 2-Nitroaniline | 0.519 | 0.532 | -2.5 | 131 | 0.00 |
| 48 | | Acenaphthylene | 1.826 | 1.755 | 3.9 | 123 | 0.00 |
| 49 | | Dimethylphthalate | 1.634 | 1.478 | 9.5 | 118 | 0.00 |
| 50 | | 2,6-Dinitrotoluene | 0.367 | 0.350 | 4.6 | 122 | 0.00 |
| 51 | C | Acenaphthene | 1.193 | 1.164 | 2.4 | 126 | 0.00 |
| 52 | | 3-Nitroaniline | 0.366 | 0.362 | 1.1 | 125 | 0.00 |
| 53 | P | 2,4-Dinitrophenol | 0.252 | 0.189 | 25.0 | 92 | 0.00 |
| 54 | | Dibenzofuran | 1.786 | 1.645 | 7.9 | 120 | 0.00 |
| 55 | P | 4-Nitrophenol | 0.307 | 0.283 | 7.8 | 117 | 0.00 |
| 56 | | 2,4-Dinitrotoluene | 0.535 | 0.505 | 5.6 | 122 | 0.00 |
| 57 | | Fluorene | 1.537 | 1.414 | 8.0 | 120 | 0.00 |
| 58 | | 2,3,4,6-Tetrachlorophenol | 0.509 | 0.463 | 9.0 | 116 | 0.00 |
| 59 | | Diethylphthalate | 1.662 | 1.480 | 11.0 | 116 | 0.00 |
| 60 | | 4-Chlorophenyl-phenylether | 0.936 | 0.851 | 9.1 | 116 | 0.00 |
| 61 | | 4-Nitroaniline | 0.396 | 0.371 | 6.3 | 121 | 0.00 |
| 62 | | Azobenzene | 1.590 | 1.500 | 5.7 | 122 | 0.00 |
| 63 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 116 | 0.00 |
| 64 | | 4,6-Dinitro-2-methylphenol | 0.149 | 0.137 | 8.1 | 102 | 0.00 |
| 65 | c | n-Nitrosodiphenylamine | 0.576 | 0.586 | -1.7 | 117 | 0.00 |
| 66 | | 4-Bromophenyl-phenylether | 0.260 | 0.260 | 0.0 | 114 | 0.00 |
| 67 | | Hexachlorobenzene | 0.283 | 0.280 | 1.1 | 114 | 0.00 |
| 68 | | Atrazine | 0.256 | 0.251 | 2.0 | 115 | 0.00 |
| 69 | C | Pentachlorophenol | 0.183 | 0.178 | 2.7 | 107 | 0.00 |
| 70 | | Phenanthrene | 0.980 | 0.935 | 4.6 | 112 | 0.00 |
| 71 | | Anthracene | 0.992 | 0.968 | 2.4 | 115 | 0.00 |
| 72 | | Carbazole | 0.858 | 0.848 | 1.2 | 116 | 0.00 |
| 73 | | Di-n-butylphthalate | 0.954 | 0.967 | -1.4 | 115 | 0.00 |
| 74 | C | Fluoranthene | 1.203 | 1.112 | 7.6 | 113 | 0.00 |
| 75 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 115 | 0.00 |
| 76 | | Benzidine | 0.573 | 0.572 | 0.2 | 112 | 0.00 |
| 77 | | Pyrene | 1.124 | 1.041 | 7.4 | 113 | 0.00 |
| 78 | S | Terphenyl-d14 | 0.646 | 0.609 | 5.7 | 109 | 0.00 |
| 79 | | Butylbenzylphthalate | 0.445 | 0.462 | -3.8 | 121 | 0.00 |
| 80 | | Benzo(a)anthracene | 1.119 | 1.098 | 1.9 | 116 | 0.00 |
| 81 | | 3,3'-Dichlorobenzidine | 0.491 | 0.491 | 0.0 | 114 | 0.00 |
| 82 | | Chrysene | 1.050 | 1.024 | 2.5 | 116 | 0.00 |
| 83 | | Bis(2-ethylhexyl)phthalate | 0.618 | 0.633 | -2.4 | 121 | 0.00 |
| 84 | c | Di-n-octyl phthalate | 1.031 | 1.056 | -2.4 | 119 | 0.01 |
| 85 | | Indeno(1,2,3-cd)pyrene | 1.338 | 1.316 | 1.6 | 117 | 0.05 |
| 86 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 116 | 0.02 |
| 87 | | Benzo(b)fluoranthene | 1.154 | 1.138 | 1.4 | 117 | 0.02 |

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| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 88 | Benzo(k)fluoranthene | 1.095 | 1.089 | 0.5 | 114 | 0.03 |
| 89 C | Benzo(a)pyrene | 1.106 | 1.096 | 0.9 | 116 | 0.02 |
| 90 | Dibenzo(a,h)anthracene | 1.098 | 1.090 | 0.7 | 117 | 0.05 |
| 91 | Benzo(g,h,i)perylene | 1.099 | 1.088 | 1.0 | 115 | 0.06 |

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