Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG073116\
Data File : BG023379.D
Acq On : 31 Jul 2016 22:20
Operator : UM/SJ
Sample : H4223-04MSD
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** SB-32-16-17MSD

**Manual Integrations APPROVED**
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8/1/2016 7:13:32 PM

Quant Time: Aug 01 03:06:31 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG072616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jul 27 17:30:33 2016
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 8.12 | 152 | 147242 | 20.00 | ng | | -0.02 |
| 21) Naphthalene-d8 | 10.95 | 136 | 751491 | 20.00 | ng | | -0.03 |
| 38) Acenaphthene-d10 | 14.79 | 164 | 561127 | 20.00 | ng | | -0.02 |
| 63) Phenanthrene-d10 | 17.54 | 188 | 1374780 | 20.00 | ng | | -0.03 |
| 75) Chrysene-d12 | 21.86 | 240 | 1133038 | 20.00 | ng | | -0.03 |
| 86) Perylene-d12 | 25.24 | 264 | 1127117 | 20.00 | ng | | -0.06 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.67 | 112 | 1134947 | 131.59 | ng | | 0.00 |
| 7) Phenol-d6 | 7.28 | 99 | 1745446 | 131.81 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 9.30 | 82 | 1135518 | 73.89 | ng | | 0.00 |
| 41) 2,4,6-Tribromophenol | 16.29 | 330 | 894983 | 154.10 | ng | | -0.02 |
| 44) 2-Fluorobiphenyl | 13.40 | 172 | 2317111 | 77.29 | ng | | -0.02 |
| 78) Terphenyl-d14 | 20.15 | 244 | 2898644 | 83.16 | ng | | -0.03 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.53 | 88 | 100607 | 27.20 | ng | # | 92 |
| 3) Pyridine | 3.93 | 79 | 348318 | 26.90 | ng | | 93 |
| 4) n-Nitrosodimethylamine | 3.84 | 42 | 160412 | 27.42 | ng | # | 72 |
| 6) Aniline | 7.44 | 93 | 762508 | 43.11 | ng | | 94 |
| 8) 2-Chlorophenol | 7.69 | 128 | 449428 | 46.70 | ng | | 99 |
| 9) Benzaldehyde | 7.25 | 77 | 305157 | 32.08 | ng | | 94 |
| 10) Phenol | 7.31 | 94 | 705363 | 50.48 | ng | # | 80 |
| 11) bis(2-Chloroethyl)ether | 7.53 | 93 | 450648 | 37.95 | ng | | 92 |
| 12) 1,3-Dichlorobenzene | 8.01 | 146 | 402322 | 37.10 | ng | | 95 |
| 13) 1,4-Dichlorobenzene | 8.16 | 146 | 415941 | 37.60 | ng | | 93 |
| 14) 1,2-Dichlorobenzene | 8.48 | 146 | 411054 | 38.52 | ng | | 92 |
| 15) Benzyl Alcohol | 8.36 | 79 | 507218 | 56.92 | ng | # | 90 |
| 16) 2,2'-oxybis(1-Chloropropan | 8.66 | 45 | 651354 | 34.47 | ng | | 89 |
| 17) 2-Methylphenol | 8.57 | 107 | 466104 | 48.81 | ng | # | 83 |
| 18) Hexachloroethane | 9.21 | 117 | 160351 | 34.79 | ng | | 93 |
| 19) n-Nitroso-di-n-propylamine | 8.93 | 70 | 471402 | 39.58 | ng | | 98 |
| 20) 3+4-Methylphenols | 8.90 | 107 | 660002 | 50.83 | ng | | 87 |
| 22) Acetophenone | 8.95 | 105 | 679644 | 34.64 | ng | # | 88 |
| 24) Nitrobenzene | 9.34 | 77 | 642385 | 36.00 | ng | # | 86 |
| 25) Isophorone | 9.87 | 82 | 1288194 | 40.59 | ng | # | 93 |
| 26) 2-Nitrophenol | 10.06 | 139 | 289227 | 42.91 | ng | # | 75 |
| 27) 2,4-Dimethylphenol | 10.11 | 122 | 521588 | 45.91 | ng | | 84 |
| 28) bis(2-Chloroethoxy)methane | 10.35 | 93 | 744603 | 41.81 | ng | | 99 |
| 29) 2,4-Dichlorophenol | 10.60 | 162 | 532744 | 48.44 | ng | | 97 |
| 30) 1,2,4-Trichlorobenzene | 10.82 | 180 | 478061 | 39.33 | ng | | 98 |
| 31) Naphthalene | 11.01 | 128 | 1432447 | 41.02 | ng | | 98 |
| 32) Benzoic acid | 10.11 | 122 | 521588 | 54.97 | ng | # | 7 |
| 33) 4-Chloroaniline | 11.12 | 127 | 577715 | 35.81 | ng | | 93 |
| 34) Hexachlorobutadiene | 11.29 | 225 | 283783 | 35.62 | ng | | 93 |
| 35) Caprolactam | 11.90 | 113 | 224054m | 47.90 | ng | | |
| 36) 4-Chloro-3-methylphenol | 12.24 | 107 | 666882 | 46.15 | ng | # | 88 |
| 37) 2-Methylnaphthalene | 12.61 | 142 | 1143067 | 44.15 | ng | # | 92 |
| 39) 1,2,4,5-Tetrachlorobenzene | 12.97 | 216 | 535386 | 29.47 | ng | | 98 |
| 40) Hexachlorocyclopentadiene | 12.95 | 237 | 669210 | 77.74 | ng | | 97 |

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|---|---|---|---|---|---|---|---|
| 42) 2,4,6-Trichlorophenol | 13.22 | 196 | 473895 | 44.41 | ng | | 98 |
| 43) 2,4,5-Trichlorophenol | 13.30 | 196 | 497330 | 43.94 | ng | | 91 |
| 45) 1,1'-Biphenyl | 13.61 | 154 | 1378912 | 35.23 | ng | | 92 |
| 46) 2-Chloronaphthalene | 13.66 | 162 | 1213005 | 38.68 | ng | | 95 |
| 47) 2-Nitroaniline | 13.87 | 65 | 548162 | 41.32 | ng | | 88 |
| 48) Acenaphthylene | 14.51 | 152 | 1954144 | 40.70 | ng | | 97 |
| 49) Dimethylphthalate | 14.24 | 163 | 2257531 | 54.52 | ng | # | 94 |
| 50) 2,6-Dinitrotoluene | 14.36 | 165 | 413861 | 42.68 | ng | # | 77 |
| 51) Acenaphthene | 14.85 | 154 | 1260171 | 40.46 | ng | | 99 |
| 52) 3-Nitroaniline | 14.69 | 138 | 424740 | 43.49 | ng | # | 78 |
| 53) 2,4-Dinitrophenol | 14.90 | 184 | 186289 | 32.81 | ng | # | 86 |
| 54) Dibenzofuran | 15.19 | 168 | 1954538 | 44.35 | ng | | 95 |
| 55) 4-Nitrophenol | 15.01 | 139 | 716956 | 84.63 | ng | # | 74 |
| 56) 2,4-Dinitrotoluene | 15.15 | 165 | 604870 | 44.30 | ng | # | 89 |
| 57) Fluorene | 15.84 | 166 | 1647393 | 42.34 | ng | | 97 |
| 58) 2,3,4,6-Tetrachlorophenol | 15.41 | 232 | 499607 | 52.14 | ng | | 95 |
| 59) Diethylphthalate | 15.59 | 149 | 1757039 | 41.43 | ng | | 96 |
| 60) 4-Chlorophenyl-phenylether | 15.82 | 204 | 849170 | 40.31 | ng | | 98 |
| 61) 4-Nitroaniline | 15.87 | 138 | 477526 | 46.63 | ng | # | 61 |
| 62) Azobenzene | 16.12 | 77 | 1890478 | 42.99 | ng | | 90 |
| 64) 4,6-Dinitro-2-methylphenol | 15.92 | 198 | 371513 | 42.07 | ng | | 94 |
| 65) n-Nitrosodiphenylamine | 16.04 | 169 | 1549196 | 42.21 | ng | | 93 |
| 66) 4-Bromophenyl-phenylether | 16.72 | 248 | 608083 | 43.74 | ng | | 97 |
| 67) Hexachlorobenzene | 16.84 | 284 | 640453 | 45.82 | ng | | 96 |
| 68) Atrazine | 16.99 | 200 | 638427 | 45.35 | ng | | 95 |
| 69) Pentachlorophenol | 17.20 | 266 | 749225 | 86.86 | ng | | 98 |
| 70) Phenanthrene | 17.59 | 178 | 2579027m | 42.89 | ng | | |
| 71) Anthracene | 17.68 | 178 | 2623107 | 43.17 | ng | | 93 |
| 72) Carbazole | 17.95 | 167 | 2471277 | 44.41 | ng | | 95 |
| 73) Di-n-butylphthalate | 18.49 | 149 | 2675363 | 43.09 | ng | # | 95 |
| 74) Fluoranthene | 19.60 | 202 | 2791714 | 40.68 | ng | | 90 |
| 76) Benzidine | 19.78 | 184 | 1882429 | 59.07 | ng | | 97 |
| 77) Pyrene | 19.96 | 202 | 2759828 | 42.92 | ng | | 93 |
| 79) Butylbenzylphthalate | 20.84 | 149 | 1144284 | 40.45 | ng | | 96 |
| 80) Benzo(a)anthracene | 21.84 | 228 | 2394244 | 40.36 | ng | | 98 |
| 81) 3,3'-Dichlorobenzidine | 21.75 | 252 | 845885 | 35.17 | ng | # | 98 |
| 82) Chrysene | 21.91 | 228 | 2265742 | 39.53 | ng | | 96 |
| 83) Bis(2-ethylhexyl)phthalate | 21.72 | 149 | 1522393 | 38.46 | ng | | 98 |
| 84) Di-n-octyl phthalate | 22.98 | 149 | 2534777 | 39.15 | ng | | 99 |
| 85) Indeno(1,2,3-cd)pyrene | 29.10 | 276 | 2974499 | 44.49 | ng | # | 100 |
| 87) Benzo(b)fluoranthene | 24.16 | 252 | 2537075 | 42.37 | ng | # | 97 |
| 88) Benzo(k)fluoranthene | 24.23 | 252 | 2390242 | 39.93 | ng | # | 96 |
| 89) Benzo(a)pyrene | 25.08 | 252 | 2441007 | 41.60 | ng | # | 97 |
| 90) Dibenzo(a,h)anthracene | 29.18 | 278 | 2450783 | 44.16 | ng | # | 91 |
| 91) Benzo(g,h,i)perylene | 30.33 | 276 | 2450584 | 41.94 | ng | # | 91 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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