Quantitation Report (QT Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112319\
Data File : BF117963.D
Acq On : 23 Nov 2019 18:15
Operator : JU
Sample : K5951-01MSD
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** IRONBOUND-4FTMSD

**Manual Integrations APPROVED**
mohammad
11/25/2019 2:32:22 PM

Quant Time: Nov 25 08:30:23 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 18:36:07 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.90 | 152 | 136085 | 20.00 | ng | | -0.02 |
| 21) Naphthalene-d8 | 8.19 | 136 | 440183 | 20.00 | ng | | -0.02 |
| 39) Acenaphthene-d10 | 9.96 | 164 | 236218 | 20.00 | ng | | -0.02 |
| 64) Phenanthrene-d10 | 11.45 | 188 | 474533 | 20.00 | ng | | -0.02 |
| 76) Chrysene-d12 | 14.10 | 240 | 369314 | 20.00 | ng | | -0.02 |
| 87) Perylene-d12 | 15.59 | 264 | 373163 | 20.00 | ng | | -0.03 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.52 | 112 | 958716 | 124.70 | ng | | -0.01 |
| 7) Phenol-d6 | 6.53 | 99 | 1227456 | 132.37 | ng | | -0.01 |
| 23) Nitrobenzene-d5 | 7.47 | 82 | 756304 | 102.14 | ng | | -0.02 |
| 42) 2,4,6-Tribromophenol | 10.75 | 330 | 359918 | 143.92 | ng | | -0.02 |
| 45) 2-Fluorobiphenyl | 9.27 | 172 | 1237229 | 93.97 | ng | | -0.02 |
| 79) Terphenyl-d14 | 13.04 | 244 | 1522746 | 75.36 | ng | | -0.02 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.72 | 88 | 120909 | 33.645 | ng | | 96 |
| 3) Pyridine | 3.48 | 79 | 282620 | 29.981 | ng | | 98 |
| 4) n-Nitrosodimethylamine | 3.43 | 42 | 153988 | 37.421 | ng | | 98 |
| 6) Aniline | 6.56 | 93 | 338723 | 27.642 | ng | | 99 |
| 8) 2-Chlorophenol | 6.69 | 128 | 382601 | 45.864 | ng | | 97 |
| 9) Benzaldehyde | 6.45 | 77 | 166452 | 24.563 | ng | | 98 |
| 10) Phenol | 6.55 | 94 | 483172 | 50.143 | ng | | 98 |
| 11) bis(2-Chloroethyl)ether | 6.64 | 93 | 330377 | 42.695 | ng | | 97 |
| 12) 1,3-Dichlorobenzene | 6.85 | 146 | 420619 | 42.828 | ng | | 99 |
| 13) 1,4-Dichlorobenzene | 6.92 | 146 | 424228 | 42.734 | ng | | 99 |
| 14) 1,2-Dichlorobenzene | 7.07 | 146 | 356872 | 37.588 | ng | | 100 |
| 15) Benzyl Alcohol | 7.05 | 79 | 297242 | 41.519 | ng | | 99 |
| 16) 2,2'-oxybis(1-Chloropropan | 7.17 | 45 | 409421 | 34.366 | ng | | 98 |
| 17) 2-Methylphenol | 7.15 | 107 | 291835 | 41.310 | ng | | 99 |
| 18) Hexachloroethane | 7.42 | 117 | 153818 | 42.179 | ng | | 97 |
| 19) n-Nitroso-di-n-propylamine | 7.32 | 70 | 244951 | 42.819 | ng | | 97 |
| 20) 3+4-Methylphenols | 7.30 | 107 | 390069 | 44.481 | ng | # | 88 |
| 22) Acetophenone | 7.31 | 105 | 511289 | 51.700 | ng | | 96 |
| 24) Nitrobenzene | 7.49 | 77 | 403106 | 52.770 | ng | | 99 |
| 25) Isophorone | 7.73 | 82 | 602652 | 44.405 | ng | | 98 |
| 26) 2-Nitrophenol | 7.80 | 139 | 182887 | 49.188 | ng | | 96 |
| 27) 2,4-Dimethylphenol | 7.84 | 122 | 291021 | 50.371 | ng | | 99 |
| 28) bis(2-Chloroethoxy)methane | 7.93 | 93 | 354821 | 41.199 | ng | | 99 |
| 29) 2,4-Dichlorophenol | 8.05 | 162 | 281403 | 44.903 | ng | | 98 |
| 30) 1,2,4-Trichlorobenzene | 8.13 | 180 | 304132 | 41.838 | ng | | 99 |
| 31) Naphthalene | 8.22 | 128 | 953019 | 46.441 | ng | | 98 |
| 32) Benzoic acid | 7.96 | 122 | 216459 | 44.745 | ng | | 97 |
| 33) 4-Chloroaniline | 8.26 | 127 | 130322 | 14.186 | ng | | 97 |
| 34) Hexachlorobutadiene | 8.33 | 225 | 173085 | 40.725 | ng | | 100 |
| 35) Caprolactam | 8.63 | 113 | 93510m | 46.949 | ng | | |
| 36) 4-Chloro-3-methylphenol | 8.75 | 107 | 296940 | 46.688 | ng | | 100 |
| 37) 2-Methylnaphthalene | 8.91 | 142 | 646950 | 46.660 | ng | | 98 |
| 38) 1-Methylnaphthalene | 9.01 | 142 | 612253 | 46.708 | ng | | 96 |
| 40) 1,2,4,5-Tetrachlorobenzene | 9.07 | 216 | 284866 | 41.526 | ng | | 99 |

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|---|---|---|---|---|---|---|---|
| 41) Hexachlorocyclopentadiene | 9.06 | 237 | 354084 | 92.105 | ng | | 99 |
| 43) 2,4,6-Trichlorophenol | 9.19 | 196 | 209267 | 42.590 | ng | | 100 |
| 44) 2,4,5-Trichlorophenol | 9.23 | 196 | 219086 | 42.944 | ng | | 96 |
| 46) 1,1'-Biphenyl | 9.37 | 154 | 783419 | 44.702 | ng | | 98 |
| 47) 2-Chloronaphthalene | 9.40 | 162 | 610845 | 42.369 | ng | | 99 |
| 48) 2-Nitroaniline | 9.49 | 65 | 182323 | 41.888 | ng | | 94 |
| 49) Acenaphthylene | 9.82 | 152 | 992523 | 47.219 | ng | | 99 |
| 50) Dimethylphthalate | 9.67 | 163 | 937608 | 56.603 | ng | | 98 |
| 51) 2,6-Dinitrotoluene | 9.73 | 165 | 164011 | 45.304 | ng | | 97 |
| 52) Acenaphthene | 9.99 | 154 | 692246 | 51.411 | ng | | 97 |
| 53) 3-Nitroaniline | 9.90 | 138 | 96201 | 22.208 | ng | | 93 |
| 54) 2,4-Dinitrophenol | 10.01 | 184 | 178816 | 94.673 | ng | # | 83 |
| 55) Dibenzofuran | 10.16 | 168 | 872203 | 46.778 | ng | | 99 |
| 56) 4-Nitrophenol | 10.07 | 139 | 308038 | 95.265 | ng | | 92 |
| 57) 2,4-Dinitrotoluene | 10.14 | 165 | 227782 | 49.462 | ng | | 99 |
| 58) Fluorene | 10.50 | 166 | 674627 | 46.690 | ng | | 100 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.28 | 232 | 186632 | 44.524 | ng | | 97 |
| 60) Diethylphthalate | 10.37 | 149 | 733089 | 45.394 | ng | | 100 |
| 61) 4-Chlorophenyl-phenylether | 10.50 | 204 | 332340 | 45.323 | ng | | 99 |
| 62) 4-Nitroaniline | 10.52 | 138 | 181142 | 41.763 | ng | | 97 |
| 63) Azobenzene | 10.66 | 77 | 667056 | 45.402 | ng | | 97 |
| 65) 4,6-Dinitro-2-methylphenol | 10.55 | 198 | 124162 | 56.048 | ng | | 94 |
| 66) n-Nitrosodiphenylamine | 10.62 | 169 | 602543 | 43.630 | ng | | 99 |
| 67) 4-Bromophenyl-phenylether | 10.99 | 248 | 210810 | 41.173 | ng | | 91 |
| 68) Hexachlorobenzene | 11.06 | 284 | 245235 | 41.076 | ng | | 97 |
| 69) Atrazine | 11.15 | 200 | 208953 | 45.995 | ng | | 99 |
| 70) Pentachlorophenol | 11.25 | 266 | 285662 | 81.897 | ng | | 98 |
| 71) Phenanthrene | 11.47 | 178 | 1062038 | 44.515 | ng | | 98 |
| 72) Anthracene | 11.53 | 178 | 1102066 | 46.590 | ng | | 98 |
| 73) Carbazole | 11.68 | 167 | 976858 | 47.258 | ng | | 98 |
| 74) Di-n-butylphthalate | 12.00 | 149 | 1178226 | 45.780 | ng | | 99 |
| 75) Fluoranthene | 12.67 | 202 | 1138306 | 53.879 | ng | | 98 |
| 77) Benzidine | 12.79 | 184 | 512504 | 42.366 | ng | | 98 |
| 78) Pyrene | 12.90 | 202 | 1171374 | 39.247 | ng | | 99 |
| 80) Butylbenzylphthalate | 13.51 | 149 | 530069 | 41.350 | ng | | 96 |
| 81) Benzo(a)anthracene | 14.09 | 228 | 1078855 | 44.207 | ng | | 99 |
| 82) 3,3'-Dichlorobenzidine | 14.04 | 252 | 254183 | 29.776 | ng | | 99 |
| 83) Chrysene | 14.13 | 228 | 1018935 | 43.087 | ng | | 99 |
| 84) Bis(2-ethylhexyl)phthalate | 14.07 | 149 | 723342 | 46.544 | ng | | 99 |
| 85) Di-n-octyl phthalate | 14.69 | 149 | 1244031 | 54.488 | ng | | 98 |
| 86) Indeno(1,2,3-cd)pyrene | 17.12 | 276 | 950151 | 47.208 | ng | | 99 |
| 88) Benzo(b)fluoranthene | 15.15 | 252 | 1042432 | 42.997 | ng | | 99 |
| 89) Benzo(k)fluoranthene | 15.19 | 252 | 944499 | 41.346 | ng | | 99 |
| 90) Benzo(a)pyrene | 15.53 | 252 | 885089 | 41.516 | ng | | 100 |
| 91) Dibenzo(a,h)anthracene | 17.14 | 278 | 793786 | 43.258 | ng | | 98 |
| 92) Benzo(g,h,i)perylene | 17.59 | 276 | 797312 | 43.624 | ng | | 99 |

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

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