Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040323\
Data File : BG056952.D
Acq On : 3 Apr 2023 11:06
Operator : CG/JU
Sample : 01627-03
Misc : MDL-MDL-SOIL 4ppm
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 04 04:53:07 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG033023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Mar 31 03:23:11 2023
Response via : Initial Calibration

**Instrument :**
BNA_G
**ClientSampleId :**
MDL-SOIL-03-QT1-2023

**Manual Integrations APPROVED**

Reviewed By :Christian Giraldo 04/04/2023
Supervised By :Jagrut Upadhyay 04/05/2023

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 8.414 | 152 | 15583 | 20.000 | ng | | 0.00 |
| 21) Naphthalene-d8 | 11.258 | 136 | 65086 | 20.000 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 15.023 | 164 | 50450 | 20.000 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 17.766 | 188 | 129918 | 20.000 | ng | | 0.00 |
| 76) Chrysene-d12 | 22.090 | 240 | 124485 | 20.000 | ng | | 0.00 |
| 86) Perylene-d12 | 25.632 | 264 | 129770 | 20.000 | ng | | -0.01 |
| System Monitoring Compounds | | | | | | | |
| 5) 2-Fluorophenol | 5.918 | 112 | 107929 | 110.848 | ng | | 0.00 |
| 7) Phenol-d6 | 7.539 | 99 | 157038 | 107.838 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 9.589 | 82 | 122332 | 76.906 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 16.509 | 330 | 89540 | 111.098 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 13.654 | 172 | 294964 | 79.281 | ng | | 0.00 |
| 79) Terphenyl-d14 | 20.339 | 244 | 574812 | 78.136 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.732 | 88 | 2000 | 4.686 | ng | | 97 |
| 3) Pyridine | 4.155 | 79 | 4649m | 3.382 | ng | | |
| 4) n-Nitrosodimethylamine | 4.061 | 42 | 2440 | 3.860 | ng | # | 79 |
| 6) Aniline | 7.721 | 93 | 6930 | 3.722 | ng | # | 84 |
| 8) 2-Chlorophenol | 7.968 | 128 | 3969 | 4.093 | ng | | 95 |
| 9) Benzaldehyde | 7.539 | 77 | 4558 | 4.990 | ng | | 94 |
| 10) Phenol | 7.568 | 94 | 5612 | 3.889 | ng | | 96 |
| 11) bis(2-Chloroethyl)ether | 7.815 | 93 | 4415 | 4.295 | ng | | 88 |
| 12) 1,3-Dichlorobenzene | 8.309 | 146 | 4687 | 4.374 | ng | # | 82 |
| 13) 1,4-Dichlorobenzene | 8.444 | 146 | 4686m | 4.333 | ng | | |
| 14) 1,2-Dichlorobenzene | 8.779 | 146 | 4248 | 4.065 | ng | | 85 |
| 15) Benzyl Alcohol | 8.638 | 79 | 4833 | 3.994 | ng | | 98 |
| 16) 2,2'-oxybis(1-Chloropr... | 8.931 | 45 | 5026 | 4.057 | ng | | 96 |
| 17) 2-Methylphenol | 8.843 | 107 | 3920 | 3.808 | ng | # | 78 |
| 18) Hexachloroethane | 9.519 | 117 | 1828 | 4.624 | ng | # | 76 |
| 19) n-Nitroso-di-n-propyla... | 9.207 | 70 | 3766 | 3.616 | ng | # | 86 |
| 20) 3+4-Methylphenols | 9.166 | 107 | 5006 | 3.478 | ng | | 84 |
| 22) Acetophenone | 9.237 | 105 | 7461 | 3.852 | ng | # | 91 |
| 24) Nitrobenzene | 9.630 | 77 | 6468 | 3.977 | ng | # | 93 |
| 25) Isophorone | 10.141 | 82 | 10655 | 3.518 | ng | | 97 |
| 26) 2-Nitrophenol | 10.353 | 139 | 2032 | 3.237 | ng | # | 80 |
| 27) 2,4-Dimethylphenol | 10.388 | 122 | 3714 | 3.351 | ng | # | 92 |
| 28) bis(2-Chloroethoxy)met... | 10.629 | 93 | 6034 | 3.979 | ng | | 98 |
| 29) 2,4-Dichlorophenol | 10.887 | 162 | 4103 | 3.442 | ng | | 94 |
| 30) 1,2,4-Trichlorobenzene | 11.105 | 180 | 5144 | 4.062 | ng | | 86 |
| 31) Naphthalene | 11.305 | 128 | 13497 | 3.805 | ng | # | 93 |
| 33) 4-Chloroaniline | 11.404 | 127 | 5475 | 3.417 | ng | # | 92 |
| 34) Hexachlorobutadiene | 11.581 | 225 | 3751 | 3.943 | ng | | 91 |
| 35) Caprolactam | 12.139 | 113 | 1353 | 3.292 | ng | # | 71 |
| 36) 4-Chloro-3-methylphenol | 12.485 | 107 | 4492 | 3.370 | ng | | 96 |
| 37) 2-Methylnaphthalene | 12.879 | 142 | 9926 | 3.525 | ng | | 96 |
| 38) 1-Methylnaphthalene | 13.096 | 142 | 9782 | 3.700 | ng | # | 88 |
| 40) 1,2,4,5-Tetrachloroben... | 13.243 | 216 | 7322 | 4.185 | ng | | 97 |
| 41) Hexachlorocyclopentadiene | 13.220 | 237 | 3333 | 3.458 | ng | | 82 |
| 43) 2,4,6-Trichlorophenol | 13.460 | 196 | 3783 | 3.389 | ng | # | 93 |
| 44) 2,4,5-Trichlorophenol | 13.531 | 196 | 4162 | 3.147 | ng | # | 84 |

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**Instrument :**
BNA_G
**ClientSampleId :**
MDL-SOIL-03-QT1-2023

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Quant Time: Apr 04 04:53:07 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG033023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Mar 31 03:23:11 2023
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 46) | 1,1'-Biphenyl | 13.866 | 154 | 14722 | 3.986 | ng | | 96 |
| 47) | 2-Chloronaphthalene | 13.913 | 162 | 11003 | 4.028 | ng | | 95 |
| 48) | 2-Nitroaniline | 14.107 | 65 | 3406 | 3.487 | ng | # | 75 |
| 49) | Acenaphthylene | 14.753 | 152 | 17354 | 3.867 | ng | | 97 |
| 50) | Dimethylphthalate | 14.453 | 163 | 14671 | 3.691 | ng | | 97 |
| 51) | 2,6-Dinitrotoluene | 14.582 | 165 | 2978 | 3.467 | ng | | 93 |
| 52) | Acenaphthene | 15.088 | 154 | 11822 | 3.820 | ng | | 95 |
| 53) | 3-Nitroaniline | 14.917 | 138 | 3018 | 3.550 | ng | # | 75 |
| 55) | Dibenzofuran | 15.417 | 168 | 18159 | 3.909 | ng | | 98 |
| 56) | 4-Nitrophenol | 15.205 | 139 | 1908 | 3.035 | ng | | 89 |
| 57) | 2,4-Dinitrotoluene | 15.364 | 165 | 4088 | 3.375 | ng | # | 90 |
| 58) | Fluorene | 16.069 | 166 | 15580 | 4.053 | ng | | 93 |
| 59) | 2,3,4,6-Tetrachlorophenol | 15.640 | 232 | 4101 | 3.406 | ng | # | 97 |
| 60) | Diethylphthalate | 15.804 | 149 | 15698 | 3.939 | ng | # | 92 |
| 61) | 4-Chlorophenyl-phenyle... | 16.051 | 204 | 8663 | 3.838 | ng | | 94 |
| 62) | 4-Nitroaniline | 16.069 | 138 | 2967 | 3.369 | ng | | 90 |
| 63) | Azobenzene | 16.339 | 77 | 15519 | 3.908 | ng | | 91 |
| 65) | 4,6-Dinitro-2-methylph... | 16.127 | 198 | 2168 | 2.755 | ng | | 91 |
| 66) | n-Nitrosodiphenylamine | 16.263 | 169 | 12965 | 3.718 | ng | | 91 |
| 67) | 4-Bromophenyl-phenylether | 16.944 | 248 | 5495 | 3.418 | ng | | 92 |
| 68) | Hexachlorobenzene | 17.067 | 284 | 6603 | 4.155 | ng | # | 84 |
| 69) | Atrazine | 17.185 | 200 | 5778 | 3.991 | ng | | 95 |
| 71) | Phenanthrene | 17.807 | 178 | 25132 | 3.794 | ng | | 94 |
| 72) | Anthracene | 17.901 | 178 | 25947 | 3.821 | ng | | 96 |
| 73) | Carbazole | 18.160 | 167 | 23129 | 3.907 | ng | | 94 |
| 74) | Di-n-butylphthalate | 18.689 | 149 | 24445 | 3.566 | ng | | 97 |
| 75) | Fluoranthene | 19.793 | 202 | 31311 | 3.729 | ng | | 97 |
| 77) | Benzidine | 19.958 | 184 | 16458 | 4.837 | ng | | 97 |
| 78) | Pyrene | 20.157 | 202 | 31781 | 3.691 | ng | | 97 |
| 80) | Butylbenzylphthalate | 21.015 | 149 | 10375 | 3.502 | ng | # | 87 |
| 81) | Benzo(a)anthracene | 22.066 | 228 | 32144 | 3.731 | ng | | 97 |
| 82) | 3,3'-Dichlorobenzidine | 21.961 | 252 | 13421 | 4.614 | ng | # | 92 |
| 83) | Chrysene | 22.137 | 228 | 29707 | 3.683 | ng | | 99 |
| 84) | Bis(2-ethylhexyl)phtha... | 21.920 | 149 | 15253 | 3.555 | ng | # | 94 |
| 85) | Di-n-octyl phthalate | 23.241 | 149 | 25216 | 3.488 | ng | # | 99 |
| 87) | Indeno(1,2,3-cd)pyrene | 29.709 | 276 | 36004 | 3.754 | ng | # | 75 |
| 88) | Benzo(b)fluoranthene | 24.493 | 252 | 31533 | 3.886 | ng | | 97 |
| 89) | Benzo(k)fluoranthene | 24.569 | 252 | 32290m | 3.986 | ng | | |
| 90) | Benzo(a)pyrene | 25.462 | 252 | 27851 | 3.493 | ng | | 95 |
| 91) | Dibenzo(a,h)anthracene | 29.779 | 278 | 31759 | 4.029 | ng | | 98 |
| 92) | Benzo(g,h,i)perylene | 30.984 | 276 | 28980 | 3.754 | ng | # | 94 |

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

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