Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011323\
Data File : BN023643.D
Acq On : 12 Jan 2023 14:03
Operator : CG/JU
Sample : N4239-04
Misc : SFAM-MDL-S-02-4PPM
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
MDL-SOIL-QT3-2022-06

**Manual Integrations APPROVED**
Reviewed By :Jagrut Upadhyay 01/13/2023
Supervised By :mohammad ahmed 01/13/2023

Quant Time: Jan 12 14:36:37 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-BN010523.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Jan 05 03:34:47 2023
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.940 | 152 | 182867 | 20.000 | ng/ul | -0.01 |
| 20) Naphthalene-d8 | 10.757 | 136 | 839389 | 20.000 | ng/ul | -0.01 |
| 38) Acenaphthene-d10 | 14.598 | 164 | 535572 | 20.000 | ng/ul | 0.00 |
| 64) Phenanthrene-d10 | 17.345 | 188 | 1178509 | 20.000 | ng/ul | 0.00 |
| 79) Chrysene-d12 | 21.533 | 240 | 1183129 | 20.000 | ng/ul | -0.01 |
| 88) Perylene-d12 | 23.962 | 264 | 1196918 | 20.000 | ng/ul | 0.00 |
| System Monitoring Compounds | | | | | | |
| 3) 1,4-Dioxane-d8 | 3.293 | 96 | 17072 | 4.017 | ng/uL | 0.00 |
| 4) Pyridine-d5 | 3.722 | 84 | 162099 | 12.714 | ng/ul | 0.00 |
| 7) Phenol-d5 | 7.105 | 99 | 288214 | 17.783 | ng/ul | 0.00 |
| 9) Bis-(2-Chloroethyl)eth... | 7.269 | 67 | 185861 | 18.694 | ng/ul | 0.00 |
| 11) 2-Chlorophenol-d4 | 7.469 | 132 | 230801 | 18.594 | ng/ul | 0.00 |
| 15) 4-Methylphenol-d8 | 8.657 | 113 | 232611 | 17.982 | ng/ul | -0.01 |
| 21) Nitrobenzene-d5 | 9.116 | 128 | 114843 | 18.144 | ng/ul | 0.00 |
| 24) 2-Nitrophenol-d4 | 9.840 | 143 | 120075 | 17.920 | ng/ul | 0.00 |
| 28) 2,4-Dichlorophenol-d3 | 10.375 | 165 | 226242 | 17.702 | ng/ul | -0.01 |
| 31) 4-Chloroaniline-d4 | 10.898 | 131 | 342364 | 17.030 | ng/ul | -0.01 |
| 46) Dimethylphthalate-d6 | 14.004 | 166 | 698270 | 17.527 | ng/ul | -0.01 |
| 49) Acenaphthylene-d8 | 14.292 | 160 | 794658 | 18.002 | ng/ul | 0.00 |
| 54) 4-Nitrophenol-d4 | 14.792 | 143 | 131313 | 16.190 | ng/ul | -0.01 |
| 60) Fluorene-d10 | 15.586 | 176 | 635846 | 18.678 | ng/ul | -0.01 |
| 65) 4,6-Dinitro-2-methylph... | 15.710 | 200 | 102166 | 14.371 | ng/ul | 0.00 |
| 73) Anthracene-d10 | 17.445 | 188 | 958852 | 18.182 | ng/ul | 0.00 |
| 81) Pyrene-d10 | 19.739 | 212 | 1185636 | 17.522 | ng/ul | 0.00 |
| 92) Benzo(a)pyrene-d12 | 23.798 | 264 | 1083850 | 18.311 | ng/ul | -0.01 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.328 | 88 | 5851m | 1.304 | ng/uL | |
| 5) Pyridine | 3.752 | 79 | 48912 | 3.747 | ng/ul | 90 |
| 6) Benzaldehyde | 7.075 | 77 | 35698 | 5.687 | ng/ul | 96 |
| 8) Phenol | 7.128 | 94 | 68750 | 4.167 | ng/ul | 99 |
| 10) Bis(2-Chloroethyl)ether | 7.363 | 93 | 56424 | 4.328 | ng/ul | 98 |
| 12) 2-Chlorophenol | 7.499 | 128 | 55176 | 4.302 | ng/ul | 99 |
| 13) 2-Methylphenol | 8.393 | 108 | 48546 | 3.910 | ng/ul | 93 |
| 14) 2,2'-oxybis(1-Chloropr... | 8.481 | 45 | 78244 | 4.488 | ng/ul | 99 |
| 16) Acetophenone | 8.775 | 105 | 86310 | 4.317 | ng/ul | 99 |
| 17) N-Nitroso-di-n-propyla... | 8.757 | 70 | 41779 | 4.150 | ng/ul | 98 |
| 18) 4-Methylphenol | 8.722 | 108 | 55593 | 4.066 | ng/ul | 99 |
| 19) Hexachloroethane | 9.028 | 117 | 21584 | 4.207 | ng/ul | 99 |
| 22) Nitrobenzene | 9.157 | 77 | 67081 | 4.235 | ng/ul | 98 |
| 23) Isophorone | 9.681 | 82 | 107309 | 3.745 | ng/ul | 100 |
| 25) 2-Nitrophenol | 9.869 | 139 | 30109 | 4.043 | ng/ul | 91 |
| 26) 2,4-Dimethylphenol | 9.928 | 107 | 55602 | 3.679 | ng/ul | 97 |
| 27) Bis(2-Chloroethoxy)met... | 10.169 | 93 | 76783 | 4.132 | ng/ul | 99 |
| 29) 2,4-Dichlorophenol | 10.404 | 162 | 53054 | 4.149 | ng/ul | 99 |
| 30) Naphthalene | 10.810 | 128 | 195118 | 4.324 | ng/ul | 99 |
| 32) 4-Chloroaniline | 10.922 | 127 | 82300 | 4.088 | ng/ul | 99 |
| 33) Hexachlorobutadiene | 11.093 | 225 | 33147 | 4.191 | ng/ul | 96 |
| 34) Caprolactam | 11.710 | 113 | 16006 | 3.727 | ng/ul | 99 |
| 35) 4-Chloro-3-methylphenol | 12.045 | 107 | 54317 | 3.895 | ng/ul | 99 |
| 36) 2-Methylnaphthalene | 12.422 | 142 | 127753 | 4.247 | ng/ul | 96 |

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| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 37) | 1-Methylnaphthalene | 12.640 | 142 | 118146 | 3.844 | ng/ul | 99 |
| 39) | 1,2,4,5-Tetrachloroben... | 12.787 | 216 | 66389 | 4.191 | ng/ul | 99 |
| 40) | Hexachlorocyclopentadiene | 12.769 | 237 | 35774 | 3.583 | ng/ul | 98 |
| 41) | 2,4,6-Trichlorophenol | 13.028 | 196 | 38261 | 3.664 | ng/ul | 97 |
| 42) | 2,4,5-Trichlorophenol | 13.098 | 196 | 43796 | 3.836 | ng/ul | 93 |
| 43) | 1,1'-Biphenyl | 13.428 | 154 | 171716 | 4.156 | ng/ul | 99 |
| 44) | 2-Chloronaphthalene | 13.469 | 162 | 136783 | 4.267 | ng/ul | 99 |
| 45) | 2-Nitroaniline | 13.681 | 65 | 30513 | 3.452 | ng/ul | 96 |
| 47) | Dimethylphthalate | 14.051 | 163 | 163835 | 4.092 | ng/ul | 99 |
| 48) | 2,6-Dinitrotoluene | 14.175 | 165 | 24323 | 3.214 | ng/ul | 91 |
| 50) | Acenaphthylene | 14.316 | 152 | 208334 | 4.245 | ng/ul | 99 |
| 51) | 3-Nitroaniline | 14.504 | 138 | 28427 | 3.748 | ng/ul | 94 |
| 52) | Acenaphthene | 14.657 | 153 | 146779 | 4.242 | ng/ul | 97 |
| 53) | 2,4-Dinitrophenol | 14.710 | 184 | 17656 | 3.569 | ng/ul | 98 |
| 55) | 4-Nitrophenol | 14.804 | 109 | 25820 | 3.942 | ng/ul | 93 |
| 56) | Dibenzofuran | 14.992 | 168 | 202964 | 4.214 | ng/ul | 93 |
| 57) | 2,4-Dinitrotoluene | 14.963 | 165 | 39131 | 3.542 | ng/ul | 98 |
| 58) | 2,3,4,6-Tetrachlorophenol | 15.222 | 232 | 36323 | 3.712 | ng/ul | 99 |
| 59) | Diethylphthalate | 15.416 | 149 | 154721 | 3.858 | ng/ul | 98 |
| 61) | Fluorene | 15.645 | 166 | 167791 | 4.302 | ng/ul | 97 |
| 62) | 4-Chlorophenyl-phenyle... | 15.639 | 204 | 80898 | 4.260 | ng/ul | 97 |
| 63) | 4-Nitroaniline | 15.663 | 138 | 29403 | 4.211 | ng/ul | 98 |
| 66) | 4,6-Dinitro-2-methylph... | 15.722 | 198 | 29570 | 4.215 | ng/ul# | 89 |
| 67) | N-Nitrosodiphenylamine | 15.851 | 169 | 136825 | 4.137 | ng/ul | 99 |
| 68) | 4-Bromophenyl-phenylether | 16.533 | 248 | 46862 | 3.967 | ng/ul | 96 |
| 69) | Hexachlorobenzene | 16.645 | 284 | 55652 | 4.020 | ng/ul | 94 |
| 70) | Atrazine | 16.804 | 200 | 47493 | 3.837 | ng/ul | 99 |
| 71) | Pentachlorophenol | 16.992 | 266 | 32667 | 3.698 | ng/ul | 94 |
| 72) | Phenanthrene | 17.386 | 178 | 267496 | 4.236 | ng/ul | 98 |
| 74) | Anthracene | 17.475 | 178 | 264571 | 4.210 | ng/ul | 99 |
| 75) | 1,2,3,4-Tetrachloroben... | 13.392 | 216 | 59871 | 3.773 | ng/uL | 92 |
| 76) | Pentachlorobenzene | 14.910 | 250 | 59240 | 3.727 | ng/uL | 97 |
| 77) | Carbazole | 17.751 | 167 | 235530 | 4.127 | ng/ul | 99 |
| 78) | Di-n-butylphthalate | 18.316 | 149 | 245848 | 3.629 | ng/ul | 99 |
| 80) | Fluoranthene | 19.404 | 202 | 309830 | 3.915 | ng/ul | 98 |
| 82) | Pyrene | 19.769 | 202 | 347541 | 4.158 | ng/ul | 99 |
| 83) | Butylbenzylphthalate | 20.669 | 149 | 112791 | 3.408 | ng/ul | 98 |
| 84) | 3,3'-Dichlorobenzidine | 21.451 | 252 | 85070 | 3.292 | ng/ul | 99 |
| 85) | Benzo(a)anthracene | 21.516 | 228 | 329794 | 4.115 | ng/ul | 97 |
| 86) | Bis(2-ethylhexyl)phtha... | 21.445 | 149 | 163676 | 3.406 | ng/ul | 97 |
| 87) | Chrysene | 21.569 | 228 | 320228 | 4.262 | ng/ul | 99 |
| 89) | Di-n-octyl phthalate | 22.374 | 149 | 250535 | 3.033 | ng/ul | 100 |
| 90) | Benzo(b)fluoranthene | 23.215 | 252 | 337767 | 4.430 | ng/ul | 98 |
| 91) | Benzo(k)fluoranthene | 23.263 | 252 | 315906 | 4.189 | ng/ul | 99 |
| 93) | Benzo(a)pyrene | 23.851 | 252 | 290621 | 4.395 | ng/ul# | 94 |
| 94) | Indeno(1,2,3-cd)pyrene | 26.480 | 276 | 346392 | 4.239 | ng/ul | 99 |
| 95) | Dibenzo(a,h)anthracene | 26.504 | 278 | 289496 | 4.284 | ng/ul | 99 |
| 96) | Benzo(g,h,i)perylene | 27.256 | 276 | 273134 | 4.197 | ng/ul | 99 |

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

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