Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD072621\
Data File : VD069850.D
Acq On : 26 Jul 2021 16:23
Operator : VA/SY
Sample : M2940-01 2.5PPBLOD
Misc : 5.00G/5.00ml/MSVOA_D/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
LOD-MDL-SOIL-01-QT3-2021

**Manual Integrations APPROVED**
MMDadoda
7/27/2021 12:14:25 PM

Quant Time: Jul 27 08:17:56 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D072221S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 27 08:17:07 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 7.979 | 168 | 689900 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.861 | 114 | 1321759 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.637 | 117 | 1286968 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.567 | 152 | 575283 | 50.000 | ug/l | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.332 | 65 | 406909 | 51.284 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 102.560% | | | | |
| 35) Dibromofluoromethane | 7.914 | 113 | 388502 | 46.626 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 93.260% | | | | |
| 50) Toluene-d8 | 10.337 | 98 | 1583844 | 49.296 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 49 - 140 | | Recovery = 98.600% | | | | |
| 62) 4-Bromofluorobenzene | 12.625 | 95 | 561915 | 52.331 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 25 - 144 | | Recovery = 104.660% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.991 | 85 | 17212 | 2.370 | ug/l | | 97 |
| 3) Chloromethane | 2.208 | 50 | 24481 | 2.324 | ug/l | | 91 |
| 4) Vinyl Chloride | 2.350 | 62 | 24428 | 2.205 | ug/l | | 99 |
| 5) Bromomethane | 2.773 | 94 | 21080 | 2.905 | ug/l | | 99 |
| 6) Chloroethane | 2.920 | 64 | 15838 | 2.206 | ug/l | # | 85 |
| 7) Trichlorofluoromethane | 3.273 | 101 | 33174 | 2.425 | ug/l | | 89 |
| 8) Diethyl Ether | 3.708 | 74 | 8602 | 2.236 | ug/l | | 94 |
| 9) 1,1,2-Trichlorotrifluo... | 4.097 | 101 | 21659 | 2.493 | ug/l | # | 88 |
| 10) Methyl Iodide | 4.308 | 142 | 12819 | 1.689 | ug/l | | 97 |
| 11) Tert butyl alcohol | 5.220 | 59 | 7661m | 18.660 | ug/l | | |
| 12) 1,1-Dichloroethene | 4.061 | 96 | 18583 | 2.354 | ug/l | # | 82 |
| 13) Acrolein | 3.926 | 56 | 5728 | 9.967 | ug/l | # | 73 |
| 14) Allyl chloride | 4.708 | 41 | 20338 | 1.757 | ug/l | | 90 |
| 15) Acrylonitrile | 5.420 | 53 | 17781 | 9.825 | ug/l | | 94 |
| 16) Acetone | 4.155 | 43 | 17667 | 12.326 | ug/l | | 97 |
| 17) Carbon Disulfide | 4.408 | 76 | 60659 | 2.149 | ug/l | | 96 |
| 18) Methyl Acetate | 4.726 | 43 | 12205 | 2.935 | ug/l | | 97 |
| 19) Methyl tert-butyl Ether | 5.467 | 73 | 34205 | 2.091 | ug/l | # | 76 |
| 20) Methylene Chloride | 4.967 | 84 | 72811 | 5.577 | ug/l | | 97 |
| 21) trans-1,2-Dichloroethene | 5.473 | 96 | 21692 | 2.332 | ug/l | | 85 |
| 22) Diisopropyl ether | 6.361 | 45 | 42812 | 1.702 | ug/l | # | 84 |
| 23) Vinyl Acetate | 6.302 | 43 | 87993m | 7.304 | ug/l | | |
| 24) 1,1-Dichloroethane | 6.261 | 63 | 38865 | 2.238 | ug/l | | 100 |
| 25) 2-Butanone | 7.214 | 43 | 21393 | 11.006 | ug/l | | 98 |
| 26) 2,2-Dichloropropane | 7.214 | 77 | 29008 | 2.196 | ug/l | | 89 |
| 27) cis-1,2-Dichloroethene | 7.208 | 96 | 23354 | 2.353 | ug/l | | 91 |
| 28) Bromochloromethane | 7.543 | 49 | 11101 | 1.683 | ug/l | # | 94 |
| 29) Tetrahydrofuran | 7.561 | 42 | 14326 | 11.392 | ug/l | # | 77 |
| 30) Chloroform | 7.702 | 83 | 45716 | 2.618 | ug/l | | 91 |
| 31) Cyclohexane | 7.979 | 56 | 63596 | 4.102 | ug/l | # | 84 |
| 32) 1,1,1-Trichloroethane | 7.908 | 97 | 35868 | 2.481 | ug/l | | 99 |
| 36) 1,1-Dichloropropene | 8.102 | 75 | 30649 | 2.149 | ug/l | | 96 |
| 37) Ethyl Acetate | 7.290 | 43 | 11137m | 2.145 | ug/l | | |
| 38) Carbon Tetrachloride | 8.096 | 117 | 26137 | 2.006 | ug/l | | 90 |
| 39) Methylcyclohexane | 9.349 | 83 | 90920 | 5.566 | ug/l | | 97 |
| 40) Benzene | 8.349 | 78 | 91621 | 2.217 | ug/l | | 94 |

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Quant Title : SW846 8260
QLast Update : Tue Jul 27 08:17:07 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.520 | 41 | 6138m | 2.252 | ug/l | | |
| 42) 1,2-Dichloroethane | 8.420 | 62 | 26074 | 2.386 | ug/l | | 84 |
| 43) Isopropyl Acetate | 8.449 | 43 | 24034 | 2.581 | ug/l | | 94 |
| 44) Trichloroethene | 9.108 | 130 | 24454 | 2.403 | ug/l | | 95 |
| 45) 1,2-Dichloropropane | 9.384 | 63 | 24327 | 2.241 | ug/l | | 90 |
| 46) Dibromomethane | 9.479 | 93 | 11457 | 2.147 | ug/l | # | 85 |
| 47) Bromodichloromethane | 9.661 | 83 | 33015 | 2.382 | ug/l | | 100 |
| 48) Methyl methacrylate | 9.461 | 41 | 11669 | 2.604 | ug/l | | 98 |
| 49) 1,4-Dioxane | 9.449 | 88 | 2522 | 44.740 | ug/l | # | 51 |
| 51) 4-Methyl-2-Pentanone | 10.220 | 43 | 58277 | 12.025 | ug/l | | 98 |
| 52) Toluene | 10.396 | 92 | 59165 | 2.360 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 10.620 | 75 | 27717 | 2.382 | ug/l | | 94 |
| 54) cis-1,3-Dichloropropene | 10.084 | 75 | 32621 | 2.316 | ug/l | | 95 |
| 55) 1,1,2-Trichloroethane | 10.796 | 97 | 40891 | 5.426 | ug/l | # | 84 |
| 56) Ethyl methacrylate | 10.661 | 69 | 33207 | 4.025 | ug/l | | 92 |
| 57) 1,3-Dichloropropane | 10.943 | 76 | 29720 | 2.331 | ug/l | | 93 |
| 58) 2-Chloroethyl Vinyl ether | 9.937 | 63 | 42931 | 12.146 | ug/l | | 90 |
| 59) 2-Hexanone | 10.979 | 43 | 37816 | 11.797 | ug/l | | 90 |
| 60) Dibromochloromethane | 11.137 | 129 | 21572 | 2.528 | ug/l | | 97 |
| 61) 1,2-Dibromoethane | 11.237 | 107 | 17699 | 2.608 | ug/l | | 85 |
| 64) Tetrachloroethene | 10.873 | 164 | 18889 | 2.302 | ug/l | | 92 |
| 65) Chlorobenzene | 11.667 | 112 | 64044 | 2.402 | ug/l | | 95 |
| 66) 1,1,1,2-Tetrachloroethane | 11.731 | 131 | 25049 | 2.612 | ug/l | | 87 |
| 67) Ethyl Benzene | 11.737 | 91 | 137996 | 2.940 | ug/l | | 100 |
| 68) m/p-Xylenes | 11.849 | 106 | 86778 | 4.769 | ug/l | | 98 |
| 69) o-Xylene | 12.173 | 106 | 41558 | 2.512 | ug/l | | 99 |
| 70) Styrene | 12.190 | 104 | 68312 | 2.383 | ug/l | | 97 |
| 71) Bromoform | 12.349 | 173 | 8671 | 1.861 | ug/l | # | 35 |
| 73) Isopropylbenzene | 12.473 | 105 | 126699 | 3.065 | ug/l | | 97 |
| 74) N-amyl acetate | 12.267 | 43 | 45417 | 5.342 | ug/l | # | 71 |
| 75) 1,1,2,2-Tetrachloroethane | 12.720 | 83 | 89741 | 10.871 | ug/l | # | 45 |
| 76) 1,2,3-Trichloropropane | 12.778 | 75 | 15466m | 2.529 | ug/l | | |
| 77) Bromobenzene | 12.755 | 156 | 24067 | 2.585 | ug/l | | 93 |
| 78) n-propylbenzene | 12.814 | 91 | 149770 | 2.821 | ug/l | | 98 |
| 79) 2-Chlorotoluene | 12.902 | 91 | 79650 | 2.583 | ug/l | | 91 |
| 80) 1,3,5-Trimethylbenzene | 12.955 | 105 | 94720 | 2.679 | ug/l | | 96 |
| 81) trans-1,4-Dichloro-2-b... | 12.525 | 75 | 5710m | 2.833 | ug/l | | |
| 82) 4-Chlorotoluene | 12.996 | 91 | 80428 | 2.495 | ug/l | | 90 |
| 83) tert-Butylbenzene | 13.214 | 119 | 80411 | 2.797 | ug/l | | 95 |
| 84) 1,2,4-Trimethylbenzene | 13.261 | 105 | 86692 | 2.485 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.390 | 105 | 131922 | 2.903 | ug/l | | 97 |
| 86) p-Isopropyltoluene | 13.508 | 119 | 99362 | 2.691 | ug/l | | 95 |
| 87) 1,3-Dichlorobenzene | 13.508 | 146 | 52062 | 2.664 | ug/l | | 94 |
| 88) 1,4-Dichlorobenzene | 13.584 | 146 | 48874m | 2.509 | ug/l | | |
| 89) n-Butylbenzene | 13.837 | 91 | 100093 | 2.747 | ug/l | | 98 |
| 90) Hexachloroethane | 14.102 | 117 | 18630 | 2.382 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 13.878 | 146 | 41439 | 2.456 | ug/l | | 92 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.496 | 75 | 3224 | 2.712 | ug/l | | 75 |
| 93) 1,2,4-Trichlorobenzene | 15.149 | 180 | 26277 | 2.887 | ug/l | # | 90 |
| 94) Hexachlorobutadiene | 15.255 | 225 | 13977 | 2.510 | ug/l | | 98 |
| 95) Naphthalene | 15.390 | 128 | 67665 | 4.165 | ug/l | | 96 |
| 96) 1,2,3-Trichlorobenzene | 15.578 | 180 | 21204 | 2.694 | ug/l | # | 78 |

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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

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

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