Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD022521\
Data File : VD068442.D
Acq On : 25 Feb 2021 11:31
Operator : VA/SY
Sample : VD0225SBS01
Misc : 5.00G/5.00ml/MSVOA_D/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** VD0225SBS01

Quant Time: Feb 26 00:27:30 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D021221S.M
Quant Title : SW846 8260
QLast Update : Fri Feb 12 13:30:51 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 7.979 | 168 | 313083 | 50.00 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.867 | 114 | 535712 | 50.00 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.644 | 117 | 493950 | 50.00 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.573 | 152 | 229841 | 50.00 | ug/l | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.332 | 65 | 161058 | 50.32 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 100.64% | | | | |
| 35) Dibromofluoromethane | 7.914 | 113 | 166120 | 52.24 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 104.48% | | | | |
| 50) Toluene-d8 | 10.338 | 98 | 663718 | 50.36 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 49 - 140 | | Recovery = 100.72% | | | | |
| 62) 4-Bromofluorobenzene | 12.632 | 95 | 212303 | 49.45 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 25 - 144 | | Recovery = 98.90% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.991 | 85 | 58320 | 20.33 | ug/l | | 94 |
| 3) Chloromethane | 2.209 | 50 | 70582 | 20.66 | ug/l | | 100 |
| 4) Vinyl Chloride | 2.350 | 62 | 82143 | 20.09 | ug/l | | 100 |
| 5) Bromomethane | 2.756 | 94 | 58753 | 20.10 | ug/l | | 99 |
| 6) Chloroethane | 2.915 | 64 | 56134 | 21.02 | ug/l | | 99 |
| 7) Trichlorofluoromethane | 3.273 | 101 | 105172 | 20.90 | ug/l | | 99 |
| 8) Diethyl Ether | 3.709 | 74 | 30479 | 20.62 | ug/l | | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 4.097 | 101 | 64399 | 21.03 | ug/l | | 93 |
| 10) Methyl Iodide | 4.303 | 142 | 54054 | 18.79 | ug/l | | 95 |
| 11) Tert butyl alcohol | 5.220 | 59 | 18718 | 116.65 | ug/l | # | 91 |
| 12) 1,1-Dichloroethene | 4.062 | 96 | 62012 | 20.83 | ug/l | | 94 |
| 13) Acrolein | 3.920 | 56 | 13230 | 72.10 | ug/l | | 96 |
| 14) Allyl chloride | 4.715 | 41 | 76872 | 19.86 | ug/l | | 99 |
| 15) Acrylonitrile | 5.426 | 53 | 67592 | 105.95 | ug/l | | 98 |
| 16) Acetone | 4.162 | 43 | 57260 | 115.96 | ug/l | | 96 |
| 17) Carbon Disulfide | 4.415 | 76 | 169114 | 19.61 | ug/l | | 100 |
| 18) Methyl Acetate | 4.715 | 43 | 28076 | 20.72 | ug/l | | 95 |
| 19) Methyl tert-butyl Ether | 5.473 | 73 | 134867 | 20.07 | ug/l | # | 91 |
| 20) Methylene Chloride | 4.962 | 84 | 81841 | 22.16 | ug/l | | 93 |
| 21) trans-1,2-Dichloroethene | 5.467 | 96 | 67812 | 19.68 | ug/l | | 93 |
| 22) Diisopropyl ether | 6.367 | 45 | 179635 | 20.97 | ug/l | | 93 |
| 23) Vinyl Acetate | 6.303 | 43 | 455465 | 102.96 | ug/l | | 97 |
| 24) 1,1-Dichloroethane | 6.261 | 63 | 122117 | 20.83 | ug/l | | 98 |
| 25) 2-Butanone | 7.208 | 43 | 73794 | 106.88 | ug/l | | 90 |
| 26) 2,2-Dichloropropane | 7.208 | 77 | 105863 | 21.11 | ug/l | | 100 |
| 27) cis-1,2-Dichloroethene | 7.214 | 96 | 82550 | 21.07 | ug/l | | 97 |
| 28) Bromochloromethane | 7.550 | 49 | 49467 | 20.35 | ug/l | # | 79 |
| 29) Tetrahydrofuran | 7.561 | 42 | 47245 | 105.79 | ug/l | | 96 |
| 30) Chloroform | 7.714 | 83 | 132834 | 21.79 | ug/l | | 93 |
| 31) Cyclohexane | 7.979 | 56 | 106970 | 21.39 | ug/l | | 95 |
| 32) 1,1,1-Trichloroethane | 7.908 | 97 | 109999 | 20.88 | ug/l | | 95 |
| 36) 1,1-Dichloropropene | 8.114 | 75 | 100288 | 21.16 | ug/l | | 96 |
| 37) Ethyl Acetate | 7.297 | 43 | 35802 | 22.36 | ug/l | | 94 |
| 38) Carbon Tetrachloride | 8.097 | 117 | 95695 | 21.17 | ug/l | | 98 |
| 39) Methylcyclohexane | 9.355 | 83 | 122791 | 21.12 | ug/l | | 99 |
| 40) Benzene | 8.355 | 78 | 284843 | 21.07 | ug/l | | 97 |

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Quant Title : SW846 8260
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| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.520 | 41 | 19281 | 20.92 | ug/l | | 97 |
| 42) 1,2-Dichloroethane | 8.426 | 62 | 76715 | 21.28 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.456 | 43 | 63538 | 20.72 | ug/l | | 98 |
| 44) Trichloroethene | 9.114 | 130 | 78932 | 21.46 | ug/l | | 98 |
| 45) 1,2-Dichloropropane | 9.391 | 63 | 70274 | 21.30 | ug/l | | 91 |
| 46) Dibromomethane | 9.479 | 93 | 38487 | 21.51 | ug/l | | 92 |
| 47) Bromodichloromethane | 9.661 | 83 | 100798 | 21.73 | ug/l | | 96 |
| 48) Methyl methacrylate | 9.461 | 41 | 30596 | 19.99 | ug/l | | 85 |
| 49) 1,4-Dioxane | 9.455 | 88 | 9501 | 454.46 | ug/l | # | 96 |
| 51) 4-Methyl-2-Pentanone | 10.226 | 43 | 168217 | 106.80 | ug/l | | 100 |
| 52) Toluene | 10.402 | 92 | 185580 | 21.35 | ug/l | | 94 |
| 53) t-1,3-Dichloropropene | 10.620 | 75 | 93501 | 21.78 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 10.091 | 75 | 113144 | 21.57 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 10.802 | 97 | 55532 | 22.46 | ug/l | | 93 |
| 56) Ethyl methacrylate | 10.661 | 69 | 62355 | 21.26 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 10.949 | 76 | 93689 | 21.60 | ug/l | | 97 |
| 58) 2-Chloroethyl Vinyl ether | 9.944 | 63 | 156146 | 99.42 | ug/l | | 93 |
| 59) 2-Hexanone | 10.985 | 43 | 119793 | 112.51 | ug/l | | 97 |
| 60) Dibromochloromethane | 11.138 | 129 | 66546 | 21.69 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 11.249 | 107 | 51158 | 21.41 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.879 | 164 | 64055 | 21.07 | ug/l | | 96 |
| 65) Chlorobenzene | 11.673 | 112 | 203823 | 21.46 | ug/l | | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.744 | 131 | 71676 | 21.63 | ug/l | | 97 |
| 67) Ethyl Benzene | 11.744 | 91 | 360412 | 21.17 | ug/l | | 98 |
| 68) m/p-Xylenes | 11.855 | 106 | 272547 | 42.35 | ug/l | | 100 |
| 69) o-Xylene | 12.179 | 106 | 123486 | 20.91 | ug/l | | 99 |
| 70) Styrene | 12.196 | 104 | 221342 | 21.55 | ug/l | | 98 |
| 71) Bromoform | 12.361 | 173 | 37483 | 22.01 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.479 | 105 | 346192 | 20.62 | ug/l | | 100 |
| 74) N-amyl acetate | 12.285 | 43 | 59349 | 20.02 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.732 | 83 | 62658 | 21.54 | ug/l | | 98 |
| 76) 1,2,3-Trichloropropane | 12.785 | 75 | 40718m | 18.62 | ug/l | | |
| 77) Bromobenzene | 12.761 | 156 | 77160 | 20.57 | ug/l | | 87 |
| 78) n-propylbenzene | 12.820 | 91 | 421432 | 20.97 | ug/l | | 98 |
| 79) 2-Chlorotoluene | 12.908 | 91 | 229336 | 20.60 | ug/l | | 97 |
| 80) 1,3,5-Trimethylbenzene | 12.955 | 105 | 286495 | 20.88 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.526 | 75 | 18215 | 20.88 | ug/l | | 95 |
| 82) 4-Chlorotoluene | 13.002 | 91 | 246526 | 20.95 | ug/l | | 98 |
| 83) tert-Butylbenzene | 13.220 | 119 | 235735 | 19.81 | ug/l | | 97 |
| 84) 1,2,4-Trimethylbenzene | 13.267 | 105 | 283473 | 20.74 | ug/l | | 96 |
| 85) sec-Butylbenzene | 13.396 | 105 | 345307 | 20.75 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.514 | 119 | 314525 | 21.05 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.514 | 146 | 153906 | 21.21 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.591 | 146 | 151186 | 20.94 | ug/l | | 98 |
| 89) n-Butylbenzene | 13.838 | 91 | 306131 | 20.99 | ug/l | | 98 |
| 90) Hexachloroethane | 14.108 | 117 | 56804 | 20.94 | ug/l | | 89 |
| 91) 1,2-Dichlorobenzene | 13.885 | 146 | 133701 | 21.25 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.502 | 75 | 9005 | 21.17 | ug/l | | 86 |
| 93) 1,2,4-Trichlorobenzene | 15.161 | 180 | 87608 | 21.26 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.261 | 225 | 46812 | 20.65 | ug/l | | 98 |
| 95) Naphthalene | 15.396 | 128 | 157698 | 20.59 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.590 | 180 | 75718 | 21.07 | ug/l | | 96 |

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

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