Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD052121\
Data File : VD069234.D
Acq On : 21 May 2021 13:03
Operator : VA/SY
Sample : VD0521SBSD01
Misc : 5.00G/5.00ml/MSVOA_D/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VD0521SBSD01

**Manual Integrations APPROVED**
MMDadoda
5/24/2021 3:43:55 PM

Quant Time: May 21 14:14:06 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D051221S.M
Quant Title : SW846 8260
QLast Update : Thu May 13 04:01:29 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.979 | 168 | 268787 | 50.00 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.861 | 114 | 437772 | 50.00 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.644 | 117 | 445306 | 50.00 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.567 | 152 | 235591 | 50.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.332 | 65 | 137449 | 51.01 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 102.02% | | | |
| 35) Dibromofluoromethane | 7.914 | 113 | 143064 | 50.22 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 100.44% | | | |
| 50) Toluene-d8 | 10.338 | 98 | 524770 | 50.13 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 49 - 140 | | Recovery = 100.26% | | | |
| 62) 4-Bromofluorobenzene | 12.632 | 95 | 175110 | 51.99 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 25 - 144 | | Recovery = 103.98% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.985 | 85 | 60306 | 21.10 | ug/l | 98 |
| 3) Chloromethane | 2.209 | 50 | 74891 | 22.80 | ug/l | 99 |
| 4) Vinyl Chloride | 2.344 | 62 | 99016 | 22.87 | ug/l | 96 |
| 5) Bromomethane | 2.750 | 94 | 71026 | 21.81 | ug/l | 97 |
| 6) Chloroethane | 2.915 | 64 | 67269 | 24.16 | ug/l | 96 |
| 7) Trichlorofluoromethane | 3.267 | 101 | 108523 | 20.55 | ug/l | 95 |
| 8) Diethyl Ether | 3.703 | 74 | 26959 | 22.36 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 4.091 | 101 | 68177 | 22.78 | ug/l | 94 |
| 10) Methyl Iodide | 4.297 | 142 | 51429 | 17.13 | ug/l | 97 |
| 11) Tert butyl alcohol | 5.226 | 59 | 21754m | 138.22 | ug/l | |
| 12) 1,1-Dichloroethene | 4.067 | 96 | 56001 | 20.83 | ug/l | 88 |
| 13) Acrolein | 3.926 | 56 | 17279 | 78.81 | ug/l | 95 |
| 14) Allyl chloride | 4.709 | 41 | 63728 | 21.60 | ug/l | 95 |
| 15) Acrylonitrile | 5.420 | 53 | 50779 | 112.84 | ug/l | 96 |
| 16) Acetone | 4.162 | 43 | 46047 | 111.58 | ug/l | 93 |
| 17) Carbon Disulfide | 4.403 | 76 | 186816 | 20.96 | ug/l | 100 |
| 18) Methyl Acetate | 4.714 | 43 | 25128 | 25.06 | ug/l | 97 |
| 19) Methyl tert-butyl Ether | 5.479 | 73 | 103360 | 21.18 | ug/l | 99 |
| 20) Methylene Chloride | 4.962 | 84 | 84226 | 19.56 | ug/l | 94 |
| 21) trans-1,2-Dichloroethene | 5.473 | 96 | 68404 | 21.45 | ug/l | 94 |
| 22) Diisopropyl ether | 6.361 | 45 | 130952 | 22.23 | ug/l | 97 |
| 23) Vinyl Acetate | 6.303 | 43 | 367219 | 105.61 | ug/l | 98 |
| 24) 1,1-Dichloroethane | 6.267 | 63 | 110604 | 21.73 | ug/l | 98 |
| 25) 2-Butanone | 7.220 | 43 | 60944 | 108.98 | ug/l | 91 |
| 26) 2,2-Dichloropropane | 7.208 | 77 | 104838 | 22.03 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 7.208 | 96 | 71113 | 20.54 | ug/l | 99 |
| 28) Bromochloromethane | 7.544 | 49 | 41206 | 22.71 | ug/l | 95 |
| 29) Tetrahydrofuran | 7.567 | 42 | 34500 | 113.49 | ug/l | 98 |
| 30) Chloroform | 7.708 | 83 | 124328 | 21.70 | ug/l | 97 |
| 31) Cyclohexane | 7.985 | 56 | 81397 | 20.38 | ug/l # | 91 |
| 32) 1,1,1-Trichloroethane | 7.903 | 97 | 113615 | 21.85 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 8.108 | 75 | 92917 | 21.83 | ug/l | 100 |
| 37) Ethyl Acetate | 7.297 | 43 | 32142 | 23.51 | ug/l # | 82 |
| 38) Carbon Tetrachloride | 8.103 | 117 | 99761 | 20.97 | ug/l | 99 |
| 39) Methylcyclohexane | 9.355 | 83 | 89798 | 20.00 | ug/l | 92 |
| 40) Benzene | 8.350 | 78 | 266850 | 21.89 | ug/l | 95 |

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| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.514 | 41 | 15409m | 21.17 | ug/l | | |
| 42) 1,2-Dichloroethane | 8.420 | 62 | 74874 | 22.49 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.450 | 43 | 53680 | 21.62 | ug/l | | 97 |
| 44) Trichloroethene | 9.108 | 130 | 71777 | 21.07 | ug/l | | 95 |
| 45) 1,2-Dichloropropane | 9.391 | 63 | 64334 | 22.36 | ug/l | | 90 |
| 46) Dibromomethane | 9.473 | 93 | 37414 | 21.75 | ug/l | | 97 |
| 47) Bromodichloromethane | 9.661 | 83 | 96475 | 22.04 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.455 | 41 | 23578 | 20.53 | ug/l | | 89 |
| 49) 1,4-Dioxane | 9.473 | 88 | 8122 | 475.28 | ug/l | | 95 |
| 51) 4-Methyl-2-Pentanone | 10.226 | 43 | 148089 | 115.91 | ug/l | | 99 |
| 52) Toluene | 10.402 | 92 | 168902 | 21.47 | ug/l | | 94 |
| 53) t-1,3-Dichloropropene | 10.620 | 75 | 82616 | 21.48 | ug/l | | 94 |
| 54) cis-1,3-Dichloropropene | 10.091 | 75 | 98541 | 21.43 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 10.802 | 97 | 50177 | 21.64 | ug/l | | 95 |
| 56) Ethyl methacrylate | 10.661 | 69 | 48854 | 20.12 | ug/l | | 97 |
| 57) 1,3-Dichloropropane | 10.944 | 76 | 83930 | 22.40 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.944 | 63 | 130882 | 114.03 | ug/l | | 97 |
| 59) 2-Hexanone | 10.985 | 43 | 96471 | 113.16 | ug/l | | 98 |
| 60) Dibromochloromethane | 11.138 | 129 | 65394 | 21.96 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.244 | 107 | 49817 | 21.74 | ug/l | | 96 |
| 64) Tetrachloroethene | 10.873 | 164 | 61648 | 19.92 | ug/l | | 96 |
| 65) Chlorobenzene | 11.667 | 112 | 196341 | 21.27 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.738 | 131 | 72682 | 20.88 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.743 | 91 | 322184 | 20.28 | ug/l | | 97 |
| 68) m/p-Xylenes | 11.849 | 106 | 255018 | 40.97 | ug/l | | 100 |
| 69) o-Xylene | 12.179 | 106 | 115203 | 20.81 | ug/l | | 98 |
| 70) Styrene | 12.191 | 104 | 202567 | 20.96 | ug/l | | 98 |
| 71) Bromoform | 12.355 | 173 | 37211 | 20.55 | ug/l | # | 100 |
| 73) Isopropylbenzene | 12.473 | 105 | 303582 | 18.44 | ug/l | | 99 |
| 74) N-amyl acetate | 12.285 | 43 | 52009 | 19.31 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.726 | 83 | 65830 | 22.06 | ug/l | | 97 |
| 76) 1,2,3-Trichloropropane | 12.779 | 75 | 51374m | 29.01 | ug/l | | |
| 77) Bromobenzene | 12.755 | 156 | 85639 | 21.92 | ug/l | | 99 |
| 78) n-propylbenzene | 12.814 | 91 | 430511 | 21.67 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.902 | 91 | 239323 | 21.65 | ug/l | | 97 |
| 80) 1,3,5-Trimethylbenzene | 12.955 | 105 | 291924 | 21.50 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.520 | 75 | 16628 | 18.97 | ug/l | | 97 |
| 82) 4-Chlorotoluene | 13.002 | 91 | 254929 | 21.65 | ug/l | | 99 |
| 83) tert-Butylbenzene | 13.220 | 119 | 234723 | 20.75 | ug/l | | 97 |
| 84) 1,2,4-Trimethylbenzene | 13.261 | 105 | 289070 | 21.16 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.396 | 105 | 354429 | 20.83 | ug/l | | 97 |
| 86) p-Isopropyltoluene | 13.508 | 119 | 309146 | 20.68 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.514 | 146 | 163184 | 20.63 | ug/l | | 97 |
| 88) 1,4-Dichlorobenzene | 13.590 | 146 | 161719 | 20.65 | ug/l | | 98 |
| 89) n-Butylbenzene | 13.838 | 91 | 281105 | 20.18 | ug/l | | 98 |
| 90) Hexachloroethane | 14.102 | 117 | 55530 | 19.82 | ug/l | | 96 |
| 91) 1,2-Dichlorobenzene | 13.885 | 146 | 144159 | 21.23 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.496 | 75 | 9396 | 20.29 | ug/l | | 92 |
| 93) 1,2,4-Trichlorobenzene | 15.149 | 180 | 75550 | 18.15 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.255 | 225 | 47502 | 19.02 | ug/l | | 98 |
| 95) Naphthalene | 15.390 | 128 | 126317 | 17.76 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.584 | 180 | 63349 | 17.79 | ug/l | | 96 |

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

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