Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD042821\
Data File : VD069013.D
Acq On : 28 Apr 2021 19:28
Operator : VA/SY
Sample : VSTDCCC050
Misc : 5.00G/5.00ml/MSVOA_D/SOIL
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**
MMDadoda
4/29/2021 5:51:36 PM

Quant Time: Apr 29 06:34:41 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D040721S.M
Quant Title : SW846 8260
QLast Update : Thu Apr 08 03:50:31 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.979 | 168 | 231079 | 50.00 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.861 | 114 | 385775 | 50.00 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.644 | 117 | 375075 | 50.00 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.567 | 152 | 196675 | 50.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.326 | 65 | 120631 | 49.39 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 98.78% | | | |
| 35) Dibromofluoromethane | 7.914 | 113 | 139252 | 55.50 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 111.00% | | | |
| 50) Toluene-d8 | 10.338 | 98 | 498382 | 52.65 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 49 - 140 | | Recovery = 105.30% | | | |
| 62) 4-Bromofluorobenzene | 12.626 | 95 | 169769 | 54.00 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 25 - 144 | | Recovery = 108.00% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.991 | 85 | 95926 | 41.89 | ug/l | 95 |
| 3) Chloromethane | 2.209 | 50 | 115453 | 42.89 | ug/l | 97 |
| 4) Vinyl Chloride | 2.344 | 62 | 161354 | 47.71 | ug/l | 97 |
| 5) Bromomethane | 2.756 | 94 | 129543 | 51.25 | ug/l | 99 |
| 6) Chloroethane | 2.915 | 64 | 121120 | 54.50 | ug/l | 98 |
| 7) Trichlorofluoromethane | 3.267 | 101 | 201693 | 50.69 | ug/l | 98 |
| 8) Diethyl Ether | 3.709 | 74 | 57254 | 53.28 | ug/l | 87 |
| 9) 1,1,2-Trichlorotrifluo... | 4.091 | 101 | 121294 | 50.51 | ug/l | 97 |
| 10) Methyl Iodide | 4.297 | 142 | 130660 | 46.65 | ug/l | 99 |
| 11) Tert butyl alcohol | 5.220 | 59 | 36478 | 285.63 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 4.062 | 96 | 113181 | 48.93 | ug/l | 93 |
| 13) Acrolein | 3.926 | 56 | 17038 | 177.25 | ug/l | 99 |
| 14) Allyl chloride | 4.714 | 41 | 117395 | 45.03 | ug/l | 93 |
| 15) Acrylonitrile | 5.420 | 53 | 117271 | 243.16 | ug/l | 97 |
| 16) Acetone | 4.162 | 43 | 76770 | 227.00 | ug/l | 95 |
| 17) Carbon Disulfide | 4.409 | 76 | 324731 | 43.38 | ug/l | 99 |
| 18) Methyl Acetate | 4.720 | 43 | 48643 | 52.36 | ug/l | 97 |
| 19) Methyl tert-butyl Ether | 5.479 | 73 | 272089 | 53.02 | ug/l | 97 |
| 20) Methylene Chloride | 4.962 | 84 | 160927 | 59.68 | ug/l | 95 |
| 21) trans-1,2-Dichloroethene | 5.473 | 96 | 145990 | 49.15 | ug/l | 98 |
| 22) Diisopropyl ether | 6.361 | 45 | 302074 | 47.83 | ug/l | 91 |
| 23) Vinyl Acetate | 6.303 | 43 | 830446 | 248.10 | ug/l | 94 |
| 24) 1,1-Dichloroethane | 6.261 | 63 | 234089 | 49.16 | ug/l | 99 |
| 25) 2-Butanone | 7.208 | 43 | 124144 | 259.41 | ug/l | 94 |
| 26) 2,2-Dichloropropane | 7.208 | 77 | 195195 | 50.18 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 7.208 | 96 | 168414 | 57.05 | ug/l | 95 |
| 28) Bromochloromethane | 7.544 | 49 | 81664 | 47.51 | ug/l | 86 |
| 29) Tetrahydrofuran | 7.561 | 42 | 80195 | 249.18 | ug/l | 92 |
| 30) Chloroform | 7.708 | 83 | 268387 | 51.49 | ug/l | 100 |
| 31) Cyclohexane | 7.985 | 56 | 163882 | 40.33 | ug/l | 97 |
| 32) 1,1,1-Trichloroethane | 7.903 | 97 | 223783 | 49.13 | ug/l | 97 |
| 36) 1,1-Dichloropropene | 8.108 | 75 | 188553 | 48.29 | ug/l | 97 |
| 37) Ethyl Acetate | 7.297 | 43 | 62067 | 54.11 | ug/l | 98 |
| 38) Carbon Tetrachloride | 8.097 | 117 | 200734 | 51.92 | ug/l | 97 |
| 39) Methylcyclohexane | 9.355 | 83 | 217475 | 47.76 | ug/l | 96 |
| 40) Benzene | 8.350 | 78 | 576380 | 50.44 | ug/l | 94 |

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| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.538 | 41 | 34867m | 51.35 | ug/l | | |
| 42) 1,2-Dichloroethane | 8.426 | 62 | 155095 | 51.35 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.455 | 43 | 119888 | 51.28 | ug/l | | 97 |
| 44) Trichloroethene | 9.114 | 130 | 164547 | 52.14 | ug/l | | 92 |
| 45) 1,2-Dichloropropane | 9.385 | 63 | 134171 | 49.16 | ug/l | | 98 |
| 46) Dibromomethane | 9.473 | 93 | 82798 | 54.46 | ug/l | | 92 |
| 47) Bromodichloromethane | 9.661 | 83 | 212328 | 53.46 | ug/l | | 99 |
| 48) Methyl methacrylate | 9.455 | 41 | 54730 | 47.50 | ug/l | | 85 |
| 49) 1,4-Dioxane | 9.461 | 88 | 18807 | 1168.38 | ug/l | # | 88 |
| 51) 4-Methyl-2-Pentanone | 10.226 | 43 | 315186 | 267.45 | ug/l | | 100 |
| 52) Toluene | 10.402 | 92 | 388318 | 53.67 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 10.620 | 75 | 182677 | 51.89 | ug/l | | 96 |
| 54) cis-1,3-Dichloropropene | 10.091 | 75 | 217257 | 51.59 | ug/l | | 96 |
| 55) 1,1,2-Trichloroethane | 10.796 | 97 | 116966 | 54.41 | ug/l | | 97 |
| 56) Ethyl methacrylate | 10.661 | 69 | 124511 | 56.26 | ug/l | | 94 |
| 57) 1,3-Dichloropropane | 10.944 | 76 | 192013 | 54.24 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.938 | 63 | 307201 | 260.02 | ug/l | | 95 |
| 59) 2-Hexanone | 10.985 | 43 | 211262 | 267.91 | ug/l | | 96 |
| 60) Dibromochloromethane | 11.138 | 129 | 159822 | 59.29 | ug/l | | 98 |
| 61) 1,2-Dibromoethane | 11.244 | 107 | 116018 | 55.53 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.873 | 164 | 138799 | 52.79 | ug/l | | 92 |
| 65) Chlorobenzene | 11.667 | 112 | 431141 | 53.10 | ug/l | | 96 |
| 66) 1,1,1,2-Tetrachloroethane | 11.743 | 131 | 167585 | 57.41 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.743 | 91 | 731961 | 52.06 | ug/l | | 96 |
| 68) m/p-Xylenes | 11.849 | 106 | 579975 | 106.91 | ug/l | | 98 |
| 69) o-Xylene | 12.179 | 106 | 268419 | 54.41 | ug/l | | 97 |
| 70) Styrene | 12.191 | 104 | 476916 | 55.47 | ug/l | | 99 |
| 71) Bromoform | 12.355 | 173 | 89813 | 57.43 | ug/l | # | 96 |
| 73) Isopropylbenzene | 12.473 | 105 | 714670 | 49.77 | ug/l | | 99 |
| 74) N-amyl acetate | 12.285 | 43 | 113078 | 46.43 | ug/l | | 94 |
| 75) 1,1,2,2-Tetrachloroethane | 12.726 | 83 | 132780 | 49.47 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.779 | 75 | 96348m | 53.62 | ug/l | | |
| 77) Bromobenzene | 12.755 | 156 | 179397 | 51.96 | ug/l | | 93 |
| 78) n-propylbenzene | 12.814 | 91 | 845533 | 48.48 | ug/l | | 98 |
| 79) 2-Chlorotoluene | 12.902 | 91 | 479993 | 49.26 | ug/l | | 96 |
| 80) 1,3,5-Trimethylbenzene | 12.955 | 105 | 610552 | 50.85 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.520 | 75 | 37663 | 48.65 | ug/l | | 96 |
| 82) 4-Chlorotoluene | 13.002 | 91 | 509669 | 49.35 | ug/l | | 97 |
| 83) tert-Butylbenzene | 13.220 | 119 | 520889 | 51.13 | ug/l | | 96 |
| 84) 1,2,4-Trimethylbenzene | 13.261 | 105 | 618488 | 51.01 | ug/l | | 98 |
| 85) sec-Butylbenzene | 13.396 | 105 | 724900 | 50.43 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.508 | 119 | 663656 | 50.55 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.508 | 146 | 350164 | 51.20 | ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 13.590 | 146 | 346049 | 51.12 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.838 | 91 | 608687 | 49.22 | ug/l | | 99 |
| 90) Hexachloroethane | 14.102 | 117 | 134775 | 51.54 | ug/l | | 97 |
| 91) 1,2-Dichlorobenzene | 13.885 | 146 | 300892 | 50.84 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.496 | 75 | 19067 | 46.73 | ug/l | | 96 |
| 93) 1,2,4-Trichlorobenzene | 15.155 | 180 | 191561 | 52.30 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.261 | 225 | 111439 | 53.15 | ug/l | | 97 |
| 95) Naphthalene | 15.390 | 128 | 348041 | 54.56 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.584 | 180 | 171290 | 53.48 | ug/l | | 98 |

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|---|---|---|---|---|---|---|

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

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