Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU031019\
Data File : VU029881.D
Acq On : 08 Mar 2019 11:58
Operator : JC/SP
Sample : VSTDCCC010
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Manual Integrations APPROVED
MMDadoda
3/11/2019 6:56:01 PM

Quant Time: Mar 08 23:03:25 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U030719DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Fri Mar 08 00:30:10 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) Fluorobenzene | 5.74 | 96 | 60113 | 1.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 57) 4-Bromofluorobenzene | 10.31 | 95 | 24495 | 1.13 | ug/l | 0.00 |
| Spiked Amount 1.000 | | | Recovery = 113.00% | | | |
| 68) 1,2-Dichlorobenzene-d4 | 11.86 | 152 | 27202 | 1.09 | ug/l | 0.00 |
| Spiked Amount 1.000 | | | Recovery = 109.00% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.21 | 85 | 204429 | 10.163 | ug/l | 100 |
| 3) Chloromethane | 1.33 | 50 | 174406 | 9.737 | ug/l | 100 |
| 4) Vinyl Chloride | 1.40 | 62 | 205073 | 10.178 | ug/l | 100 |
| 5) Bromomethane | 1.62 | 94 | 114744 | 8.339 | ug/l | 98 |
| 6) Chloroethane | 1.69 | 64 | 122702 | 10.155 | ug/l | 96 |
| 7) Trichlorofluoromethane | 1.88 | 101 | 286930 | 10.450 | ug/l | 96 |
| 8) 1,1,2-Trichloro-1,2,2-trif | 2.29 | 101 | 164959 | 10.327 | ug/l | 99 |
| 9) 1,1-Dichloroethene | 2.28 | 96 | 160345 | 10.255 | ug/l | 99 |
| 10) Iodomethane | 2.41 | 142 | 177241 | 10.135 | ug/l | 100 |
| 11) Allyl Chloride | 2.59 | 41 | 225618 | 10.264 | ug/l | 99 |
| 12) Acrylonitrile | 2.93 | 53 | 70316 | 20.624 | ug/l | 99 |
| 13) Acetone | 2.32 | 43 | 136495 | 48.339 | ug/l | 99 |
| 14) Carbon Disulfide | 2.47 | 76 | 496573 | 9.806 | ug/l | 99 |
| 15) Methylene Chloride | 2.70 | 84 | 182662 | 9.735 | ug/l | 99 |
| 16) trans-1,2-Dichloroethene | 2.97 | 96 | 178055 | 10.081 | ug/l | 98 |
| 17) 1,1-Dichloroethane | 3.44 | 63 | 306445 | 10.369 | ug/l | 99 |
| 18) 2-Butanone | 4.27 | 43 | 211965 | 55.236 | ug/l | 98 |
| 19) Cyclohexane | 4.99 | 56 | 254988m | 11.112 | ug/l | |
| 20) Methylcyclohexane | 6.41 | 83 | 295235 | 11.047 | ug/l | 99 |
| 21) 2,2-Dichloropropane | 4.22 | 77 | 246918 | 10.222 | ug/l | 99 |
| 22) cis-1,2-Dichloroethene | 4.22 | 96 | 204156 | 10.906 | ug/l | 98 |
| 23) Diethyl Ether | 2.10 | 59 | 122155 | 10.420 | ug/l | 98 |
| 24) tert-Butyl Alcohol | 2.84 | 59 | 132539 | 109.606 | ug/l | 99 |
| 25) Methyl tert-Butyl Ether | 3.00 | 73 | 413856 | 10.511 | ug/l | 100 |
| 26) Bromochloromethane | 4.54 | 128 | 88182 | 10.611 | ug/l | 98 |
| 27) Chloroform | 4.67 | 83 | 319771 | 10.685 | ug/l | 99 |
| 28) 1,1,1-Trichloroethane | 4.91 | 97 | 273353 | 10.773 | ug/l | 100 |
| 29) 1,1-Dichloropropene | 5.13 | 75 | 238845 | 10.592 | ug/l | 98 |
| 30) Carbon Tetrachloride | 5.13 | 117 | 237592 | 10.733 | ug/l | 98 |
| 31) Isopropyl Ether | 3.58 | 45 | 441243 | 10.825 | ug/l | 99 |
| 32) Ethyl-t-butyl ether | 4.07 | 59 | 434207 | 10.959 | ug/l | 100 |
| 33) Tert-Amyl methyl ether | 5.58 | 73 | 408273 | 11.143 | ug/l | 99 |
| 34) Propionitrile | 4.33 | 54 | 66324 | 58.102 | ug/l | 98 |
| 35) Benzene | 5.38 | 78 | 710335 | 10.694 | ug/l | 99 |
| 36) 1,2-Dichloroethane | 5.40 | 62 | 190195 | 10.484 | ug/l | 99 |
| 37) Trichloroethene | 6.18 | 130 | 203497 | 10.493 | ug/l | 100 |
| 38) 1,2-Dichloropropane | 6.43 | 63 | 180718 | 10.748 | ug/l | 99 |
| 39) Methacrylonitrile | 4.55 | 41 | 52064 | 10.843 | ug/l | 99 |
| 40) Methyl acrylate | 4.42 | 55 | 87287 | 11.501 | ug/l | 99 |
| 41) Tetrahydrofuran | 4.65 | 42 | 52284 | 20.818 | ug/l | 99 |
| 42) 1-Chlorobutane | 5.06 | 56 | 316809 | 10.998 | ug/l | 99 |

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ALS Vial : 8 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** VSTDCCC010EC

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MMDadoda
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Quant Time: Mar 08 23:03:25 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U030719DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Fri Mar 08 00:30:10 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 43) Dibromomethane | 6.56 | 93 | 94140 | 10.803 | ug/l | | 99 |
| 44) Bromodichloromethane | 6.75 | 83 | 229793 | 10.737 | ug/l | | 99 |
| 45) 4-Methyl-2-Pentanone | 7.46 | 43 | 511417 | 56.272 | ug/l | | 99 |
| 46) t-1,4-Dichloro-2-butene | 10.51 | 75 | 84903m | 22.345 | ug/l | | |
| 47) Methyl methacrylate | 6.62 | 69 | 172527 | 23.072 | ug/l | | 98 |
| 48) Ethyl methacrylate | 8.02 | 69 | 168753 | 11.778 | ug/l | | 99 |
| 49) Toluene | 7.63 | 92 | 455028 | 11.155 | ug/l | | 99 |
| 50) t-1,3-Dichloropropene | 7.88 | 75 | 207463 | 11.062 | ug/l | | 98 |
| 51) cis-1,3-Dichloropropene | 7.27 | 75 | 260177 | 11.206 | ug/l | | 98 |
| 52) 1,1,2-Trichloroethane | 8.06 | 97 | 138566 | 10.743 | ug/l | | 97 |
| 53) 1,3-Dichloropropane | 8.24 | 76 | 229641 | 10.855 | ug/l | | 99 |
| 54) 2-Hexanone | 8.36 | 43 | 356735 | 56.518 | ug/l | | 99 |
| 55) Dibromochloromethane | 8.47 | 129 | 168242 | 10.990 | ug/l | | 100 |
| 56) 1,2-Dibromoethane | 8.59 | 107 | 131029 | 10.713 | ug/l | | 99 |
| 58) Tetrachloroethene | 8.22 | 164 | 219654 | 11.089 | ug/l | | 99 |
| 59) Chlorobenzene | 9.12 | 112 | 518286 | 11.056 | ug/l | | 100 |
| 60) 1,1,1,2-Tetrachloroethane | 9.21 | 131 | 182725 | 10.865 | ug/l | | 99 |
| 61) Pentachloroethane | 11.10 | 117 | 122012 | 10.421 | ug/l | | 98 |
| 62) Hexachloroethane | 12.14 | 117 | 134365 | 10.909 | ug/l | | 97 |
| 63) Ethyl Benzene | 9.25 | 91 | 873344 | 11.372 | ug/l | | 100 |
| 64) m/p-Xylenes | 9.37 | 106 | 704690 | 23.212 | ug/l | | 99 |
| 65) o-Xylene | 9.77 | 106 | 335184 | 11.496 | ug/l | | 98 |
| 66) Styrene | 9.79 | 104 | 573159 | 11.832 | ug/l | | 99 |
| 67) Bromoform | 9.95 | 173 | 101482 | 11.287 | ug/l | | 99 |
| 69) Isopropylbenzene | 10.16 | 105 | 891629 | 11.532 | ug/l | | 100 |
| 70) 1,1,2,2-Tetrachloroethane | 10.45 | 83 | 170256 | 10.823 | ug/l | | 99 |
| 71) 1,2,3-Trichloropropane | 10.49 | 75 | 121648m | 10.405 | ug/l | | |
| 72) Bromobenzene | 10.45 | 156 | 229647 | 11.221 | ug/l | | 97 |
| 73) n-propylbenzene | 10.58 | 120 | 255351 | 11.748 | ug/l | | 99 |
| 74) 2-Chlorotoluene | 10.66 | 126 | 218409 | 11.328 | ug/l | | 97 |
| 75) 1,3,5-Trimethylbenzene | 10.77 | 105 | 762907 | 11.713 | ug/l | | 100 |
| 76) 4-Chlorotoluene | 10.77 | 126 | 224603 | 11.424 | ug/l | | 100 |
| 77) tert-Butylbenzene | 11.10 | 119 | 741774 | 11.510 | ug/l | | 99 |
| 78) 1,2,4-Trimethylbenzene | 11.14 | 105 | 782256 | 11.885 | ug/l | | 99 |
| 79) sec-Butylbenzene | 11.32 | 105 | 1007516 | 11.796 | ug/l | | 100 |
| 80) Nitrobenzene | 12.86 | 77 | 17965 | 62.909 | ug/l | # | 96 |
| 81) p-Isopropyltoluene | 11.47 | 119 | 849416 | 11.880 | ug/l | | 100 |
| 82) 1,3-Dichlorobenzene | 11.41 | 146 | 446198 | 11.009 | ug/l | | 99 |
| 83) 1,4-Dichlorobenzene | 11.50 | 146 | 448766 | 11.331 | ug/l | | 98 |
| 84) n-Butylbenzene | 11.89 | 91 | 771949 | 11.849 | ug/l | | 100 |
| 85) 1,2-Dichlorobenzene | 11.87 | 146 | 420764 | 11.009 | ug/l | | 99 |
| 86) 1,2-Dibromo-3-Chloropropan | 12.65 | 75 | 24924 | 11.097 | ug/l | | 94 |
| 87) 1,2,4-Trichlorobenzene | 13.50 | 180 | 290561 | 11.872 | ug/l | | 99 |
| 88) Hexachlorobutadiene | 13.69 | 225 | 173186 | 11.233 | ug/l | | 98 |
| 89) Naphthalene | 13.74 | 128 | 491432 | 10.355 | ug/l | | 100 |
| 90) 1,2,3-Trichlorobenzene | 13.98 | 180 | 271565 | 11.811 | ug/l | | 98 |

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

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