Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU082522\
Data File : VU050443.D
Acq On : 25 Aug 2022 13:27
Operator : SY/MD
Sample : N3980-09 0.25PPB
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
MDL-WATER-03-QT3-2022

Quant Time: Aug 26 11:29:29 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U081922DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Aug 25 14:01:59 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Fluorobenzene | 6.105 | 96 | 42146 | 1.000 | ug/l | # 0.00 |
| System Monitoring Compounds | | | | | | |
| 57) 4-Bromofluorobenzene | 10.639 | 95 | 10116 | 0.705 | ug/l | 0.00 |
| Spiked Amount 1.000 | | | Recovery = 70.000% | | | |
| 68) 1,2-Dichlorobenzene-d4 | 12.195 | 152 | 12372 | 0.729 | ug/l | 0.00 |
| Spiked Amount 1.000 | | | Recovery = 73.000% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.385 | 85 | 2676 | 0.153 | ug/l | 95 |
| 3) Chloromethane | 1.520 | 50 | 4661 | 0.220 | ug/l | 98 |
| 4) Vinyl Chloride | 1.604 | 62 | 3407 | 0.188 | ug/l | 97 |
| 5) Bromomethane | 1.858 | 94 | 1625 | 0.219 | ug/l | 98 |
| 6) Chloroethane | 1.935 | 64 | 2293 | 0.209 | ug/l | 95 |
| 7) Trichlorofluoromethane | 2.138 | 101 | 4019 | 0.178 | ug/l | 92 |
| 8) 1,1,2-Trichloro-1,2,2-... | 2.578 | 101 | 2662 | 0.210 | ug/l | 89 |
| 9) 1,1-Dichloroethene | 2.581 | 96 | 2293 | 0.185 | ug/l | 91 |
| 10) Iodomethane | 2.726 | 142 | 1285 | 0.126 | ug/l | 93 |
| 11) Allyl Chloride | 2.925 | 41 | 4379 | 0.229 | ug/l | 99 |
| 12) Acrylonitrile | 3.330 | 53 | 1789m | 0.481 | ug/l | |
| 13) Acetone | 2.642 | 43 | 4269m | 1.640 | ug/l | |
| 14) Carbon Disulfide | 2.797 | 76 | 7249 | 0.189 | ug/l | 95 |
| 15) Methylene Chloride | 3.051 | 84 | 5792 | 0.345 | ug/l | 95 |
| 16) trans-1,2-Dichloroethene | 3.356 | 96 | 2617 | 0.204 | ug/l | 91 |
| 17) 1,1-Dichloroethane | 3.871 | 63 | 6259 | 0.234 | ug/l # | 95 |
| 18) 2-Butanone | 4.739 | 43 | 4773 | 1.166 | ug/l | 92 |
| 19) Cyclohexane | 5.363 | 56 | 3991 | 0.206 | ug/l | 98 |
| 20) Methylcyclohexane | 6.761 | 83 | 2567 | 0.168 | ug/l | 96 |
| 21) 2,2-Dichloropropane | 4.668 | 77 | 4779 | 0.235 | ug/l # | 81 |
| 22) cis-1,2-Dichloroethene | 4.665 | 96 | 3297 | 0.227 | ug/l | 98 |
| 23) Diethyl Ether | 2.382 | 59 | 2079 | 0.195 | ug/l # | 84 |
| 24) tert-Butyl Alcohol | 3.202 | 59 | 3493m | 2.588 | ug/l | |
| 25) Methyl tert-Butyl Ether | 3.385 | 73 | 7554 | 0.229 | ug/l | 99 |
| 26) Bromochloromethane | 4.970 | 128 | 1262 | 0.217 | ug/l | 84 |
| 27) Chloroform | 5.080 | 83 | 6102 | 0.236 | ug/l | 86 |
| 28) 1,1,1-Trichloroethane | 5.301 | 97 | 4545 | 0.206 | ug/l | 93 |
| 29) 1,1-Dichloropropene | 5.501 | 75 | 4495 | 0.254 | ug/l | 90 |
| 30) Carbon Tetrachloride | 5.498 | 117 | 3487 | 0.197 | ug/l | 92 |
| 31) Isopropyl Ether | 4.012 | 45 | 14771 | 0.356 | ug/l | 97 |
| 32) Ethyl-t-butyl ether | 4.523 | 59 | 6603 | 0.203 | ug/l | 95 |
| 33) Tert-Amyl methyl ether | 5.954 | 73 | 5975 | 0.281 | ug/l # | 93 |
| 34) Propionitrile | 4.793 | 54 | 1353m | 1.119 | ug/l | |
| 35) Benzene | 5.755 | 78 | 12143 | 0.233 | ug/l | 95 |
| 36) 1,2-Dichloroethane | 5.787 | 62 | 4022 | 0.253 | ug/l # | 95 |
| 37) Trichloroethene | 6.536 | 130 | 2397 | 0.192 | ug/l | 97 |
| 38) 1,2-Dichloropropane | 6.806 | 63 | 2702 | 0.193 | ug/l | 98 |
| 39) Methacrylonitrile | 4.999 | 41 | 1592m | 0.321 | ug/l | |
| 40) Methyl acrylate | 4.864 | 55 | 2505m | 0.331 | ug/l | |
| 41) Tetrahydrofuran | 5.080 | 42 | 2607m | 1.049 | ug/l | |
| 42) 1-Chlorobutane | 5.440 | 56 | 5674 | 0.225 | ug/l | 88 |
| 43) Dibromomethane | 6.932 | 93 | 1617 | 0.215 | ug/l | 88 |
| 44) Bromodichloromethane | 7.121 | 83 | 3857 | 0.217 | ug/l | 100 |

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MSVOA_U
**ClientSampleId :**
MDL-WATER-03-QT3-2022

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Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
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| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 45) 4-Methyl-2-Pentanone | 7.822 | 43 | 6840 | 0.905 ug/l # | 93 |
| 46) t-1,4-Dichloro-2-butene | 10.832 | 75 | 1492m | 0.846 ug/l | |
| 47) Methyl methacrylate | 6.999 | 69 | 1757 | 1.251 ug/l | 92 |
| 48) Ethyl methacrylate | 8.353 | 69 | 1568 | 0.669 ug/l | 80 |
| 49) Toluene | 7.977 | 92 | 4820 | 0.172 ug/l | 100 |
| 50) t-1,3-Dichloropropene | 8.221 | 75 | 2295 | 0.166 ug/l # | 75 |
| 51) cis-1,3-Dichloropropene | 7.623 | 75 | 3259 | 0.206 ug/l # | 84 |
| 52) 1,1,2-Trichloroethane | 8.411 | 97 | 2259 | 0.204 ug/l # | 88 |
| 53) 1,3-Dichloropropane | 8.588 | 76 | 3208 | 0.184 ug/l | 100 |
| 54) 2-Hexanone | 8.713 | 43 | 4835 | 0.919 ug/l | 84 |
| 55) Dibromochloromethane | 8.822 | 129 | 2280 | 0.187 ug/l | 99 |
| 56) 1,2-Dibromoethane | 8.938 | 107 | 1816 | 0.183 ug/l | 99 |
| 58) Tetrachloroethene | 8.555 | 164 | 2157 | 0.184 ug/l | 98 |
| 59) Chlorobenzene | 9.456 | 112 | 5637 | 0.187 ug/l | 99 |
| 60) 1,1,1,2-Tetrachloroethane | 9.539 | 131 | 2496 | 0.197 ug/l # | 81 |
| 61) Pentachloroethane | 11.433 | 117 | 1980 | 0.188 ug/l | 86 |
| 62) Hexachloroethane | 12.472 | 117 | 1467 | 0.167 ug/l | 96 |
| 63) Ethyl Benzene | 9.575 | 91 | 7780 | 0.690 ug/l | 96 |
| 64) m/p-Xylenes | 9.700 | 106 | 5031 | 1.281 ug/l | 96 |
| 65) o-Xylene | 10.108 | 106 | 2613 | 0.621 ug/l | 94 |
| 66) Styrene | 10.124 | 104 | 4086 | 0.696 ug/l | 97 |
| 67) Bromoform | 10.298 | 173 | 1278 | 0.185 ug/l # | 86 |
| 69) Isopropylbenzene | 10.488 | 105 | 6511 | 0.672 ug/l | 97 |
| 70) 1,1,2,2-Tetrachloroethane | 10.790 | 83 | 2967 | 0.195 ug/l # | 96 |
| 71) 1,2,3-Trichloropropane | 10.832 | 75 | 2088m | 0.182 ug/l | |
| 72) Bromobenzene | 10.787 | 156 | 2164 | 0.166 ug/l | 95 |
| 73) n-propylbenzene | 10.909 | 120 | 5732 | 0.916 ug/l | 99 |
| 74) 2-Chlorotoluene | 10.989 | 126 | 1680 | 0.497 ug/l | 89 |
| 75) 1,3,5-Trimethylbenzene | 11.092 | 105 | 5715 | 0.625 ug/l | 93 |
| 76) 4-Chlorotoluene | 11.102 | 126 | 1527 | 0.494 ug/l | 91 |
| 77) tert-Butylbenzene | 11.427 | 119 | 6516 | 0.617 ug/l | 86 |
| 78) 1,2,4-Trimethylbenzene | 11.472 | 105 | 5558 | 0.660 ug/l | 98 |
| 79) sec-Butylbenzene | 11.645 | 105 | 7291 | 0.649 ug/l | 97 |
| 80) Nitrobenzene | 13.221 | 77 | 1229 | 1.488 ug/l # | 70 |
| 81) p-Isopropyltoluene | 11.793 | 119 | 5613 | 0.699 ug/l | 93 |
| 82) 1,3-Dichlorobenzene | 11.748 | 146 | 4817 | 0.180 ug/l | 98 |
| 83) 1,4-Dichlorobenzene | 11.841 | 146 | 4565 | 0.171 ug/l | 96 |
| 84) n-Butylbenzene | 12.214 | 91 | 5977 | 0.696 ug/l | 93 |
| 85) 1,2-Dichlorobenzene | 12.218 | 146 | 4539 | 0.172 ug/l | 96 |
| 86) 1,2-Dibromo-3-Chloropr... | 12.999 | 75 | 428 | 0.178 ug/l # | 71 |
| 87) 1,2,4-Trichlorobenzene | 13.848 | 180 | 3839 | 0.255 ug/l | 98 |
| 88) Hexachlorobutadiene | 14.025 | 225 | 1680 | 0.172 ug/l | 96 |
| 89) Naphthalene | 14.095 | 128 | 9438 | 1.170 ug/l | 97 |
| 90) 1,2,3-Trichlorobenzene | 14.333 | 180 | 3780 | 0.678 ug/l | 98 |

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

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