Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU072423\
Data File : VU054851.D
Acq On : 24 Jul 2023 11:23
Operator : MD/SY
Sample : VU0724WBS01
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 25 02:12:46 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U072123DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Mon Jul 24 09:59:15 2023
Response via : Initial Calibration

**Instrument :**
MSVOA_U
**ClientSampleId :**
VU0724WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 07/25/2023
Supervised By :Mahesh Dadoda 07/31/2023

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Fluorobenzene | 6.113 | 96 | 27819 | 1.000 | ug/l | # 0.00 |
| System Monitoring Compounds | | | | | | |
| 57) 4-Bromofluorobenzene | 10.634 | 95 | 8322 | 0.991 | ug/l | 0.00 |
| Spiked Amount 1.000 | | | Recovery = | 99.000% | | |
| 68) 1,2-Dichlorobenzene-d4 | 12.190 | 152 | 9433 | 0.970 | ug/l | 0.00 |
| Spiked Amount 1.000 | | | Recovery = | 97.000% | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.383 | 85 | 11192 | 2.022 | ug/l | 95 |
| 3) Chloromethane | 1.518 | 50 | 11795 | 1.835 | ug/l | 97 |
| 4) Vinyl Chloride | 1.602 | 62 | 14889 | 1.804 | ug/l | 99 |
| 5) Bromomethane | 1.856 | 94 | 11708 | 1.999 | ug/l | 83 |
| 6) Chloroethane | 1.933 | 64 | 14057 | 1.803 | ug/l | 96 |
| 7) Trichlorofluoromethane | 2.136 | 101 | 38370 | 1.919 | ug/l | 100 |
| 8) 1,1,2-Trichloro-1,2,2-... | 2.576 | 101 | 11002 | 1.920 | ug/l | 97 |
| 9) 1,1-Dichloroethene | 2.576 | 96 | 9079 | 1.897 | ug/l | 91 |
| 10) Iodomethane | 2.718 | 142 | 14919 | 1.935 | ug/l | 98 |
| 11) Allyl Chloride | 2.920 | 41 | 11881 | 2.116 | ug/l | 87 |
| 12) Acrylonitrile | 3.335 | 53 | 4518 | 3.880 | ug/l # | 84 |
| 13) Acetone | 2.650 | 43 | 17060 | 17.091 | ug/l | 88 |
| 14) Carbon Disulfide | 2.788 | 76 | 17516 | 2.171 | ug/l | 99 |
| 15) Methylene Chloride | 3.042 | 84 | 15485 | 1.725 | ug/l | 95 |
| 16) trans-1,2-Dichloroethene | 3.351 | 96 | 10064 | 1.892 | ug/l | 90 |
| 17) 1,1-Dichloroethane | 3.869 | 63 | 22988 | 2.043 | ug/l | 96 |
| 18) 2-Butanone | 4.724 | 43 | 18187m | 12.455 | ug/l | |
| 19) Cyclohexane | 5.386 | 56 | 13256 | 2.035 | ug/l | 94 |
| 20) Methylcyclohexane | 6.756 | 83 | 17213 | 1.989 | ug/l | 98 |
| 21) 2,2-Dichloropropane | 4.660 | 77 | 21048 | 2.144 | ug/l | 96 |
| 22) cis-1,2-Dichloroethene | 4.663 | 96 | 12834 | 1.906 | ug/l | 90 |
| 23) Diethyl Ether | 2.374 | 59 | 15186 | 2.065 | ug/l | 97 |
| 24) tert-Butyl Alcohol | 3.258 | 59 | 11660m | 18.409 | ug/l | |
| 25) Methyl tert-Butyl Ether | 3.361 | 73 | 30454 | 2.086 | ug/l | 98 |
| 26) Bromochloromethane | 4.968 | 128 | 5047 | 1.966 | ug/l | 92 |
| 27) Chloroform | 5.081 | 83 | 25302 | 2.046 | ug/l | 95 |
| 28) 1,1,1-Trichloroethane | 5.312 | 97 | 21767 | 2.094 | ug/l | 99 |
| 29) 1,1-Dichloropropene | 5.525 | 75 | 15292 | 2.069 | ug/l | 98 |
| 30) Carbon Tetrachloride | 5.521 | 117 | 17483 | 2.024 | ug/l | 98 |
| 31) Isopropyl Ether | 3.984 | 45 | 34525 | 2.073 | ug/l | 98 |
| 32) Ethyl-t-butyl ether | 4.499 | 59 | 34566 | 2.020 | ug/l | 96 |
| 33) Tert-Amyl methyl ether | 5.936 | 73 | 31977 | 1.985 | ug/l | 97 |
| 34) Propionitrile | 4.798 | 54 | 4191m | 9.594 | ug/l | |
| 35) Benzene | 5.769 | 78 | 49332 | 2.054 | ug/l | 99 |
| 36) 1,2-Dichloroethane | 5.795 | 62 | 14081 | 2.041 | ug/l | 98 |
| 37) Trichloroethene | 6.541 | 130 | 13789 | 2.124 | ug/l | 96 |
| 38) 1,2-Dichloropropane | 6.788 | 63 | 13763 | 1.985 | ug/l | 97 |
| 39) Methacrylonitrile | 4.988 | 41 | 3393 | 2.182 | ug/l # | 73 |
| 40) Methyl acrylate | 4.865 | 55 | 4546 | 1.713 | ug/l # | 92 |
| 41) Tetrahydrofuran | 5.071 | 42 | 3816 | 4.152 | ug/l # | 62 |
| 42) 1-Chlorobutane | 5.457 | 56 | 20159 | 2.016 | ug/l | 96 |
| 43) Dibromomethane | 6.917 | 93 | 6205 | 1.924 | ug/l | 94 |
| 44) Bromodichloromethane | 7.103 | 83 | 18536 | 2.097 | ug/l | 97 |

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Data File : VU054851.D
Acq On : 24 Jul 2023 11:23
Operator : MD/SY
Sample : VU0724WBS01
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
VU0724WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 07/25/2023
Supervised By :Mahesh Dadoda 07/31/2023

Quant Time: Jul 25 02:12:46 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U072123DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Mon Jul 24 09:59:15 2023
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 45) 4-Methyl-2-Pentanone | 7.788 | 43 | 38286 | 10.029 | ug/l | | 96 |
| 46) t-1,4-Dichloro-2-butene | 10.833 | 75 | 7774m | 4.864 | ug/l | | |
| 47) Methyl methacrylate | 6.959 | 69 | 12007 | 3.962 | ug/l | | 95 |
| 48) Ethyl methacrylate | 8.332 | 69 | 12616 | 2.049 | ug/l | | 99 |
| 49) Toluene | 7.965 | 92 | 30906 | 2.016 | ug/l | | 97 |
| 50) t-1,3-Dichloropropene | 8.209 | 75 | 15721 | 2.007 | ug/l | | 95 |
| 51) cis-1,3-Dichloropropene | 7.605 | 75 | 19329 | 2.029 | ug/l | | 94 |
| 52) 1,1,2-Trichloroethane | 8.396 | 97 | 9771 | 2.008 | ug/l | | 93 |
| 53) 1,3-Dichloropropane | 8.573 | 76 | 17478 | 2.131 | ug/l | | 98 |
| 54) 2-Hexanone | 8.685 | 43 | 30062 | 11.295 | ug/l | | 99 |
| 55) Dibromochloromethane | 8.804 | 129 | 12036 | 2.070 | ug/l | | 99 |
| 56) 1,2-Dibromoethane | 8.923 | 107 | 9201 | 2.161 | ug/l | | 98 |
| 58) Tetrachloroethene | 8.550 | 164 | 11867 | 2.098 | ug/l | | 97 |
| 59) Chlorobenzene | 9.444 | 112 | 36830 | 2.016 | ug/l | | 96 |
| 60) 1,1,1,2-Tetrachloroethane | 9.531 | 131 | 12940 | 2.006 | ug/l | | 95 |
| 61) Pentachloroethane | 11.421 | 117 | 10183 | 2.005 | ug/l | | 98 |
| 62) Hexachloroethane | 12.470 | 117 | 10349 | 1.984 | ug/l | | 94 |
| 63) Ethyl Benzene | 9.566 | 91 | 62365 | 2.002 | ug/l | | 98 |
| 64) m/p-Xylenes | 9.688 | 106 | 47184 | 4.007 | ug/l | | 99 |
| 65) o-Xylene | 10.097 | 106 | 23689 | 1.997 | ug/l | | 100 |
| 66) Styrene | 10.113 | 104 | 37254 | 1.955 | ug/l | | 98 |
| 67) Bromoform | 10.286 | 173 | 6303 | 2.012 | ug/l | | 98 |
| 69) Isopropylbenzene | 10.479 | 105 | 64867 | 2.016 | ug/l | | 99 |
| 70) 1,1,2,2-Tetrachloroethane | 10.778 | 83 | 12722 | 2.096 | ug/l | | 92 |
| 71) 1,2,3-Trichloropropane | 10.820 | 75 | 6935m | 1.621 | ug/l | | |
| 72) Bromobenzene | 10.778 | 156 | 14402 | 1.940 | ug/l | | 98 |
| 73) n-propylbenzene | 10.904 | 120 | 16787 | 1.942 | ug/l | | 99 |
| 74) 2-Chlorotoluene | 10.981 | 126 | 15413 | 2.047 | ug/l | | 98 |
| 75) 1,3,5-Trimethylbenzene | 11.084 | 105 | 51551 | 1.966 | ug/l | | 100 |
| 76) 4-Chlorotoluene | 11.093 | 126 | 15214 | 1.966 | ug/l | | 96 |
| 77) tert-Butylbenzene | 11.415 | 119 | 53740 | 1.990 | ug/l | | 100 |
| 78) 1,2,4-Trimethylbenzene | 11.463 | 105 | 52364 | 1.986 | ug/l | | 98 |
| 79) sec-Butylbenzene | 11.640 | 105 | 69575 | 1.986 | ug/l | | 100 |
| 80) Nitrobenzene | 13.212 | 77 | 1933 | 11.277 | ug/l | # | 60 |
| 81) p-Isopropyltoluene | 11.788 | 119 | 54011 | 1.893 | ug/l | | 97 |
| 82) 1,3-Dichlorobenzene | 11.743 | 146 | 29969 | 2.016 | ug/l | | 98 |
| 83) 1,4-Dichlorobenzene | 11.833 | 146 | 28675 | 1.924 | ug/l | | 98 |
| 84) n-Butylbenzene | 12.206 | 91 | 46216 | 1.760 | ug/l | | 99 |
| 85) 1,2-Dichlorobenzene | 12.209 | 146 | 28422 | 2.008 | ug/l | | 99 |
| 86) 1,2-Dibromo-3-Chloropr... | 12.994 | 75 | 1779 | 2.330 | ug/l | | 91 |
| 87) 1,2,4-Trichlorobenzene | 13.836 | 180 | 16739 | 1.844 | ug/l | | 99 |
| 88) Hexachlorobutadiene | 14.016 | 225 | 9750 | 2.011 | ug/l | | 96 |
| 89) Naphthalene | 14.084 | 128 | 27063 | 1.844 | ug/l | | 98 |
| 90) 1,2,3-Trichlorobenzene | 14.328 | 180 | 14437 | 1.841 | ug/l | | 94 |

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

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Data File : VU054851.D
Acq On : 24 Jul 2023 11:23
Operator : MD/SY
Sample : VU0724WBS01
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 25 02:12:46 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U072123DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Mon Jul 24 09:59:15 2023
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**Instrument :**
MSVOA_U
**ClientSampleId :**
VU0724WBS01

**Manual Integrations APPROVED**

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