Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU072319\
Data File : VU033374.D
Acq On : 23 Jul 2019 11:54
Operator : JC/SP
Sample : VU0723WBSD01
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** VU0723WBSD01

**Manual Integrations APPROVED**
MMDadoda
7/25/2019 11:15:48 AM

Quant Time: Jul 24 04:02:04 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U072219DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Tue Jul 23 03:43:51 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) Fluorobenzene | 5.72 | 96 | 29136 | 1.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 57) 4-Bromofluorobenzene | 10.29 | 95 | 11264 | 0.99 | ug/l | 0.00 |
| Spiked Amount 1.000 | | | Recovery = 99.00% | | | |
| 68) 1,2-Dichlorobenzene-d4 | 11.85 | 152 | 11265 | 0.95 | ug/l | 0.00 |
| Spiked Amount 1.000 | | | Recovery = 95.00% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.20 | 85 | 25620 | 2.126 | ug/l | 100 |
| 3) Chloromethane | 1.33 | 50 | 26701 | 2.008 | ug/l | 100 |
| 4) Vinyl Chloride | 1.40 | 62 | 30359 | 2.046 | ug/l | 98 |
| 5) Bromomethane | 1.62 | 94 | 20055 | 2.147 | ug/l | 98 |
| 6) Chloroethane | 1.69 | 64 | 18752 | 1.799 | ug/l | 95 |
| 7) Trichlorofluoromethane | 1.88 | 101 | 42195 | 2.071 | ug/l | 97 |
| 8) 1,1,2-Trichloro-1,2,2-trif | 2.27 | 101 | 21479 | 2.043 | ug/l | 99 |
| 9) 1,1-Dichloroethene | 2.27 | 96 | 21151 | 2.043 | ug/l | 99 |
| 10) Iodomethane | 2.40 | 142 | 22433 | 1.612 | ug/l | 99 |
| 11) Allyl Chloride | 2.58 | 41 | 34190 | 2.001 | ug/l | 98 |
| 12) Acrylonitrile | 2.92 | 53 | 10269 | 3.553 | ug/l | 97 |
| 13) Acetone | 2.31 | 43 | 22837 | 9.262 | ug/l | 100 |
| 14) Carbon Disulfide | 2.46 | 76 | 78982 | 2.008 | ug/l | 98 |
| 15) Methylene Chloride | 2.68 | 84 | 26509 | 1.899 | ug/l | 96 |
| 16) trans-1,2-Dichloroethene | 2.96 | 96 | 24328 | 1.979 | ug/l | 97 |
| 17) 1,1-Dichloroethane | 3.42 | 63 | 34325 | 2.080 | ug/l | 99 |
| 18) 2-Butanone | 4.25 | 43 | 20235 | 8.598 | ug/l | 97 |
| 19) Cyclohexane | 4.97 | 56 | 23380m | 1.931 | ug/l | |
| 20) Methylcyclohexane | 6.39 | 83 | 23212 | 1.904 | ug/l | 96 |
| 21) 2,2-Dichloropropane | 4.20 | 77 | 28966 | 2.072 | ug/l | 100 |
| 22) cis-1,2-Dichloroethene | 4.20 | 96 | 19420 | 2.084 | ug/l | 99 |
| 23) Diethyl Ether | 2.09 | 59 | 16682 | 1.869 | ug/l | 98 |
| 24) tert-Butyl Alcohol | 2.82 | 59 | 21469 | 15.008 | ug/l | 98 |
| 25) Methyl tert-Butyl Ether | 2.98 | 73 | 57440 | 1.927 | ug/l | 99 |
| 26) Bromochloromethane | 4.52 | 128 | 8811 | 2.151 | ug/l | 95 |
| 27) Chloroform | 4.65 | 83 | 37482 | 1.988 | ug/l | 100 |
| 28) 1,1,1-Trichloroethane | 4.89 | 97 | 29657 | 2.031 | ug/l | 98 |
| 29) 1,1-Dichloropropene | 5.11 | 75 | 24595 | 2.042 | ug/l | 99 |
| 30) Carbon Tetrachloride | 5.11 | 117 | 26798 | 2.085 | ug/l | 97 |
| 31) Isopropyl Ether | 3.56 | 45 | 41124 | 1.972 | ug/l | 96 |
| 32) Ethyl-t-butyl ether | 4.05 | 59 | 38177 | 1.904 | ug/l | 97 |
| 33) Tert-Amyl methyl ether | 5.56 | 73 | 34033 | 1.888 | ug/l | 98 |
| 34) Propionitrile | 4.32 | 54 | 6054 | 8.967 | ug/l # | 95 |
| 35) Benzene | 5.37 | 78 | 70396 | 2.023 | ug/l | 97 |
| 36) 1,2-Dichloroethane | 5.38 | 62 | 22569 | 1.949 | ug/l | 100 |
| 37) Trichloroethene | 6.16 | 130 | 18517 | 2.016 | ug/l | 93 |
| 38) 1,2-Dichloropropane | 6.41 | 63 | 18924 | 1.971 | ug/l | 100 |
| 39) Methacrylonitrile | 4.53 | 41 | 5111 | 1.907 | ug/l | 99 |
| 40) Methyl acrylate | 4.41 | 55 | 8946 | 2.146 | ug/l # | 88 |
| 41) Tetrahydrofuran | 4.63 | 42 | 4633m | 3.448 | ug/l | |
| 42) 1-Chlorobutane | 5.04 | 56 | 31227 | 1.934 | ug/l | 91 |

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| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 43) Dibromomethane | 6.54 | 93 | 10379 | 1.953 ug/l | 99 |
| 44) Bromodichloromethane | 6.74 | 83 | 25395 | 1.982 ug/l | 95 |
| 45) 4-Methyl-2-Pentanone | 7.45 | 43 | 47877 | 8.833 ug/l | 96 |
| 46) t-1,4-Dichloro-2-butene | 10.50 | 75 | 7786m | 3.559 ug/l | |
| 47) Methyl methacrylate | 6.61 | 69 | 14779 | 3.648 ug/l | 92 |
| 48) Ethyl methacrylate | 8.01 | 69 | 12589 | 1.763 ug/l | 95 |
| 49) Toluene | 7.62 | 92 | 40491 | 2.032 ug/l | 98 |
| 50) t-1,3-Dichloropropene | 7.86 | 75 | 20894 | 1.955 ug/l | 98 |
| 51) cis-1,3-Dichloropropene | 7.25 | 75 | 24825 | 1.967 ug/l | 94 |
| 52) 1,1,2-Trichloroethane | 8.05 | 97 | 13745 | 1.935 ug/l | 98 |
| 53) 1,3-Dichloropropane | 8.23 | 76 | 23051 | 1.921 ug/l | 99 |
| 54) 2-Hexanone | 8.35 | 43 | 32670 | 8.562 ug/l | 94 |
| 55) Dibromochloromethane | 8.46 | 129 | 16074 | 1.937 ug/l | 96 |
| 56) 1,2-Dibromoethane | 8.57 | 107 | 12731 | 1.923 ug/l | 99 |
| 58) Tetrachloroethene | 8.21 | 164 | 16687 | 2.004 ug/l | 98 |
| 59) Chlorobenzene | 9.10 | 112 | 45394 | 1.987 ug/l | 97 |
| 60) 1,1,1,2-Tetrachloroethane | 9.19 | 131 | 17465 | 2.013 ug/l | 99 |
| 61) Pentachloroethane | 11.09 | 117 | 15134 | 2.125 ug/l | 94 |
| 62) Hexachloroethane | 12.13 | 117 | 14116 | 2.049 ug/l | 99 |
| 63) Ethyl Benzene | 9.23 | 91 | 70939 | 1.933 ug/l | 97 |
| 64) m/p-Xylenes | 9.36 | 106 | 55989 | 3.816 ug/l | 98 |
| 65) o-Xylene | 9.76 | 106 | 27504 | 1.956 ug/l | 100 |
| 66) Styrene | 9.78 | 104 | 45166 | 1.894 ug/l | 99 |
| 67) Bromoform | 9.94 | 173 | 8665 | 1.930 ug/l | 98 |
| 69) Isopropylbenzene | 10.15 | 105 | 71276 | 1.977 ug/l | 98 |
| 70) 1,1,2,2-Tetrachloroethane | 10.44 | 83 | 18509 | 1.966 ug/l | 97 |
| 71) 1,2,3-Trichloropropane | 10.48 | 75 | 12701m | 1.748 ug/l | |
| 72) Bromobenzene | 10.44 | 156 | 19016 | 1.997 ug/l | 99 |
| 73) n-propylbenzene | 10.57 | 120 | 19683 | 1.916 ug/l | 97 |
| 74) 2-Chlorotoluene | 10.65 | 126 | 19447 | 2.073 ug/l | 96 |
| 75) 1,3,5-Trimethylbenzene | 10.76 | 105 | 63582 | 1.965 ug/l | 99 |
| 76) 4-Chlorotoluene | 10.76 | 126 | 19740 | 2.020 ug/l | 90 |
| 77) tert-Butylbenzene | 11.09 | 119 | 58894 | 1.920 ug/l | 99 |
| 78) 1,2,4-Trimethylbenzene | 11.13 | 105 | 62288 | 1.883 ug/l | 96 |
| 79) sec-Butylbenzene | 11.31 | 105 | 83269 | 1.972 ug/l | 99 |
| 80) Nitrobenzene | 12.86 | 77 | 1483m | 3.790 ug/l | |
| 81) p-Isopropyltoluene | 11.46 | 119 | 67288 | 1.960 ug/l | 99 |
| 82) 1,3-Dichlorobenzene | 11.40 | 146 | 40766 | 2.014 ug/l | 99 |
| 83) 1,4-Dichlorobenzene | 11.49 | 146 | 40210 | 2.008 ug/l | 99 |
| 84) n-Butylbenzene | 11.87 | 91 | 65240 | 1.857 ug/l | 97 |
| 85) 1,2-Dichlorobenzene | 11.86 | 146 | 37684 | 1.986 ug/l | 100 |
| 86) 1,2-Dibromo-3-Chloropropan | 12.65 | 75 | 3058 | 2.065 ug/l | 88 |
| 87) 1,2,4-Trichlorobenzene | 13.49 | 180 | 20190 | 1.788 ug/l | 96 |
| 88) Hexachlorobutadiene | 13.68 | 225 | 14186 | 2.037 ug/l | 97 |
| 89) Naphthalene | 13.73 | 128 | 31449 | 1.804 ug/l | 99 |
| 90) 1,2,3-Trichlorobenzene | 13.98 | 180 | 19462 | 1.776 ug/l | 98 |

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

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