

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX012325\  
 Data File : VX044707.D  
 Acq On : 23 Jan 2025 14:43  
 Operator : JC/MD  
 Sample : Q1168-07 2.5PPB  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 LOD-MDL-WATER-01-QT1-2025

Quant Time: Jan 24 05:00:48 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X011625W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Jan 17 01:21:41 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 01/24/2025  
 Supervised By :Semsettin Yesilyurt 01/24/2025

| Compound                     | R.T.   | QIon     | Response | Conc   | Units    | Dev(Min) |
|------------------------------|--------|----------|----------|--------|----------|----------|
| -----                        |        |          |          |        |          |          |
| Internal Standards           |        |          |          |        |          |          |
| 1) Bromochloromethane        | 4.885  | 128      | 33279    | 30.000 | ug/l     | 0.00     |
| 28) 1,4-Difluorobenzene      | 6.751  | 114      | 180891   | 30.000 | ug/l     | 0.00     |
| 57) Chlorobenzene-d5         | 10.049 | 117      | 161225   | 30.000 | ug/l     | 0.00     |
|                              |        |          |          |        |          |          |
| System Monitoring Compounds  |        |          |          |        |          |          |
| 27) 1,2-Dichloroethane-d4    | 5.940  | 65       | 87981    | 27.385 | ug/l     | 0.00     |
| Spiked Amount 30.000         | Range  | 91 - 110 | Recovery | =      | 91.300%  |          |
| 60) 4-Bromofluorobenzene     | 11.079 | 95       | 91410    | 29.190 | ug/l     | 0.00     |
| Spiked Amount 30.000         | Range  | 63 - 112 | Recovery | =      | 97.300%  |          |
| 63) Toluene-d8               | 8.641  | 98       | 265973   | 30.331 | ug/l     | 0.00     |
| Spiked Amount 30.000         | Range  | 91 - 112 | Recovery | =      | 101.100% |          |
|                              |        |          |          |        |          |          |
| Target Compounds             |        |          |          |        | Qvalue   |          |
| 2) Dichlorodifluoromethane   | 1.167  | 85       | 6443m    | 2.178  | ug/l     |          |
| 3) Chloromethane             | 1.295  | 50       | 7801     | 2.506  | ug/l     | 91       |
| 4) Vinyl Chloride            | 1.374  | 62       | 7811     | 2.565  | ug/l     | 94       |
| 5) Bromomethane              | 1.593  | 94       | 2069     | 2.811  | ug/l     | 90       |
| 6) Chloroethane              | 1.673  | 64       | 10012m   | 20.735 | ug/l     |          |
| 7) Trichlorofluoromethane    | 1.874  | 101      | 8137     | 2.440  | ug/l     | 97       |
| 8) Diethyl Ether             | 2.130  | 74       | 2971     | 2.309  | ug/l     | 78       |
| 9) 1,1,2-Trichlorotrifluo... | 2.325  | 101      | 6035     | 2.526  | ug/l     | 92       |
| 10) 1,1-Dichloroethene       | 2.313  | 96       | 6504     | 2.646  | ug/l     | 94       |
| 11) Methyl Iodide            | 2.447  | 142      | 6988     | 2.051  | ug/l     | 94       |
| 12) Methyl Acetate           | 2.697  | 43       | 7803     | 2.174  | ug/l     | 96       |
| 13) Acrolein                 | 2.233  | 56       | 5129     | 12.924 | ug/l     | 92       |
| 14) Acrylonitrile            | 3.056  | 53       | 15883    | 12.146 | ug/l     | 99       |
| 15) Acetone                  | 2.374  | 58       | 4438     | 12.648 | ug/l     | 76       |
| 16) Carbon Disulfide         | 2.502  | 76       | 19167    | 2.806  | ug/l     | 98       |
| 17) Allyl chloride           | 2.654  | 41       | 11317    | 2.553  | ug/l     | 99       |
| 18) Methylene Chloride       | 2.782  | 84       | 7230     | 2.628  | ug/l     | 93       |
| 19) trans-1,2-Dichloroethene | 3.081  | 96       | 6671     | 2.729  | ug/l     | 97       |
| 20) Diisopropyl ether        | 3.745  | 45       | 21383    | 2.658  | ug/l #   | 58       |
| 21) 1,1-Dichloroethane       | 3.605  | 63       | 12133    | 2.542  | ug/l     | 97       |
| 22) cis-1,2-Dichloroethene   | 4.483  | 96       | 7351     | 2.430  | ug/l     | 96       |
| 23) tert-Butyl Alcohol       | 2.947  | 59       | 9459m    | 14.955 | ug/l     |          |
| 24) Methyl tert-Butyl Ether  | 3.105  | 73       | 20555    | 2.413  | ug/l     | 100      |
| 25) Chloroform               | 5.080  | 83       | 11808    | 2.490  | ug/l     | 99       |
| 26) Cyclohexane              | 5.452  | 56       | 11706    | 2.918  | ug/l #   | 95       |
| 29) 1,1-Dichloropropene      | 5.690  | 75       | 8239m    | 2.619  | ug/l     |          |
| 30) 2-Butanone               | 4.562  | 43       | 20530    | 11.878 | ug/l #   | 85       |
| 31) 2,2-Dichloropropane      | 4.459  | 77       | 10977    | 2.521  | ug/l #   | 67       |
| 32) 1,1,1-Trichloroethane    | 5.361  | 97       | 10181m   | 2.442  | ug/l     |          |
| 33) Carbon Tetrachloride     | 5.660  | 117      | 8249     | 2.345  | ug/l     | 92       |
| 34) Benzene                  | 6.025  | 78       | 25988    | 2.589  | ug/l     | 95       |
| 35) Methacrylonitrile        | 4.916  | 41       | 4463     | 2.310  | ug/l     | 89       |
| 36) 1,2-Dichloroethane       | 6.086  | 62       | 8264     | 2.303  | ug/l #   | 94       |
| 37) Trichloroethene          | 7.123  | 130      | 6375m    | 2.630  | ug/l     |          |
| 38) Methylcyclohexane        | 7.367  | 83       | 11380    | 2.662  | ug/l     | 100      |
| 39) 1,2-Dichloropropane      | 7.421  | 63       | 6293     | 2.514  | ug/l     | 99       |
| 40) Dibromomethane           | 7.574  | 93       | 4701     | 2.526  | ug/l     | 96       |
| 41) Bromodichloromethane     | 7.818  | 83       | 9449     | 2.459  | ug/l     | 90       |
| 42) Vinyl Acetate            | 3.715  | 43       | 85962    | 12.524 | ug/l     | 99       |

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Quant Time: Jan 24 05:00:48 2025  
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Manual Integrations  
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| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 43) Ethyl Acetate             | 4.715  | 43   | 7691m    | 2.268  | ug/l   |          |
| 44) Isopropyl Acetate         | 6.330  | 43   | 13184    | 2.165  | ug/l # | 86       |
| 45) 1,4-Dioxane               | 7.678  | 88   | 2427     | 41.845 | ug/l # | 96       |
| 46) Methyl methacrylate       | 7.696  | 41   | 7072m    | 2.372  | ug/l   |          |
| 47) n-amyl Acetate            | 10.842 | 43   | 11998    | 2.347  | ug/l   | 98       |
| 48) t-1,3-Dichloropropene     | 8.976  | 75   | 9440     | 2.327  | ug/l   | 97       |
| 49) cis-1,3-Dichloropropene   | 8.366  | 75   | 10521    | 2.419  | ug/l   | 96       |
| 50) 1,1,2-Trichloroethane     | 9.147  | 97   | 5889     | 2.457  | ug/l   | 98       |
| 51) Ethyl methacrylate        | 9.116  | 69   | 9735     | 2.338  | ug/l   | 97       |
| 52) 1,3-Dichloropropane       | 9.305  | 76   | 10722    | 2.587  | ug/l   | 99       |
| 53) Dibromochloromethane      | 9.513  | 129  | 7025     | 2.453  | ug/l   | 98       |
| 54) 1,2-Dibromoethane         | 9.604  | 107  | 6111     | 2.412  | ug/l   | 96       |
| 55) 2-Chloroethyl vinyl ether | 8.238  | 63   | 22999    | 11.384 | ug/l   | 98       |
| 56) Bromoform                 | 10.799 | 173  | 4474     | 2.356  | ug/l   | 98       |
| 58) 4-Methyl-2-Pentanone      | 8.568  | 43   | 40290    | 11.856 | ug/l   | 98       |
| 59) 2-Hexanone                | 9.433  | 43   | 28657    | 11.518 | ug/l   | 100      |
| 61) Tetrachloroethene         | 9.269  | 164  | 5078     | 2.626  | ug/l   | 95       |
| 62) Toluene                   | 8.714  | 91   | 27937    | 2.632  | ug/l   | 96       |
| 64) Chlorobenzene             | 10.073 | 112  | 16779    | 2.545  | ug/l   | 100      |
| 65) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 5967     | 2.519  | ug/l   | 93       |
| 66) Ethyl Benzene             | 10.189 | 91   | 30045    | 2.593  | ug/l   | 97       |
| 67) m/p-Xylenes               | 10.299 | 106  | 22811    | 5.356  | ug/l   | 97       |
| 68) o-Xylene                  | 10.640 | 106  | 11522    | 2.696  | ug/l   | 98       |
| 69) Styrene                   | 10.653 | 104  | 17749    | 2.529  | ug/l   | 96       |
| 70) Isopropylbenzene          | 10.957 | 105  | 28243    | 2.628  | ug/l   | 98       |
| 71) 1,1,2,2-Tetrachloroethane | 11.207 | 83   | 9336     | 2.585  | ug/l   | 97       |
| 72) 1,2,3-Trichloropropane    | 11.238 | 75   | 6785m    | 2.233  | ug/l   |          |
| 73) Bromobenzene              | 11.195 | 156  | 5997     | 2.396  | ug/l   | 91       |
| 74) n-propylbenzene           | 11.299 | 91   | 31873    | 2.612  | ug/l   | 99       |
| 75) 2-Chlorotoluene           | 11.360 | 91   | 20561    | 2.680  | ug/l   | 100      |
| 76) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 23367    | 2.678  | ug/l   | 98       |
| 77) t-1,4-Dichloro-2-butene   | 11.018 | 75   | 2880     | 2.003  | ug/l   | 97       |
| 78) 4-Chlorotoluene           | 11.451 | 91   | 21750    | 2.573  | ug/l   | 98       |
| 79) tert-butylbenzene         | 11.713 | 119  | 24056    | 2.683  | ug/l   | 98       |
| 80) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 23289    | 2.645  | ug/l   | 100      |
| 81) sec-Butylbenzene          | 11.884 | 105  | 29044    | 2.713  | ug/l   | 99       |
| 82) p-Isopropyltoluene        | 12.006 | 119  | 23467    | 2.664  | ug/l   | 98       |
| 83) 1,3-Dichlorobenzene       | 11.969 | 146  | 11539    | 2.595  | ug/l   | 99       |
| 84) 1,4-Dichlorobenzene       | 12.043 | 146  | 11670    | 2.677  | ug/l   | 96       |
| 85) n-Butylbenzene            | 12.329 | 91   | 18937    | 2.480  | ug/l   | 97       |
| 86) Hexachloroethane          | 12.536 | 117  | 5039     | 2.600  | ug/l   | 99       |
| 87) 1,2-Dichlorobenzene       | 12.335 | 146  | 11726    | 2.641  | ug/l   | 98       |
| 88) 1,2-Dibromo-3-Chloropr... | 12.939 | 75   | 1792     | 2.060  | ug/l   | 97       |
| 89) 1,2,4-Trichlorobenzene    | 13.591 | 180  | 6756     | 2.449  | ug/l   | 96       |
| 90) Hexachlorobutadiene       | 13.719 | 225  | 3078     | 2.884  | ug/l   | 99       |
| 91) Naphthalene               | 13.774 | 128  | 24473    | 2.371  | ug/l   | 98       |
| 92) 1,2,3-Trichlorobenzene    | 13.957 | 180  | 7014     | 2.499  | ug/l   | 94       |

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

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ALS Vial : 10 Sample Multiplier: 1

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MSVOA\_X  
ClientSampleId :  
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