

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX011625\  
 Data File : VX044672.D  
 Acq On : 16 Jan 2025 14:46  
 Operator :  
 Sample : P4368-09 2.5PPB  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MDL-WATER-03-QT4-2024

Quant Time: Jan 17 02:52:20 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 01/17/2025  
 Supervised By :Semsettin Yesilyurt 01/17/2025

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Bromochloromethane        | 4.891          | 128  | 35805      | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 6.751          | 114  | 198108     | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 10.049         | 117  | 172163     | 30.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 27) 1,2-Dichloroethane-d4    | 5.946          | 65   | 102195     | 29.565   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = | 98.567%  |        |          |
| 60) 4-Bromofluorobenzene     | 11.079         | 95   | 98845      | 29.559   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = | 98.533%  |        |          |
| 63) Toluene-d8               | 8.641          | 98   | 289593     | 30.926   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = | 103.100% |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.167          | 85   | 7683m      | 2.413    | ug/l   |          |
| 3) Chloromethane             | 1.295          | 50   | 10435      | 3.116    | ug/l   | 93       |
| 4) Vinyl Chloride            | 1.374          | 62   | 8590m      | 2.622    | ug/l   |          |
| 5) Bromomethane              | 1.593          | 94   | 2404       | 3.036    | ug/l   | 89       |
| 6) Chloroethane              | 1.660          | 64   | 1988       | 3.827    | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 1.861          | 101  | 9474       | 2.640    | ug/l   | 97       |
| 8) Diethyl Ether             | 2.130          | 74   | 3772       | 2.725    | ug/l   | 95       |
| 9) 1,1,2-Trichlorotrifluo... | 2.313          | 101  | 7003       | 2.724    | ug/l   | 97       |
| 10) 1,1-Dichloroethene       | 2.307          | 96   | 7266       | 2.747    | ug/l   | 99       |
| 11) Methyl Iodide            | 2.441          | 142  | 7475       | 2.040    | ug/l   | 95       |
| 12) Methyl Acetate           | 2.703          | 43   | 10789      | 2.794    | ug/l   | 95       |
| 13) Acrolein                 | 2.239          | 56   | 6185       | 14.485   | ug/l   | 91       |
| 14) Acrylonitrile            | 3.069          | 53   | 20492      | 14.565   | ug/l   | 99       |
| 15) Acetone                  | 2.386          | 58   | 5676       | 15.035   | ug/l   | 76       |
| 16) Carbon Disulfide         | 2.496          | 76   | 20451      | 2.783    | ug/l   | 100      |
| 17) Allyl chloride           | 2.654          | 41   | 12745      | 2.672    | ug/l   | 94       |
| 18) Methylene Chloride       | 2.776          | 84   | 8400       | 2.838    | ug/l   | 90       |
| 19) trans-1,2-Dichloroethene | 3.081          | 96   | 7814       | 2.971    | ug/l   | 87       |
| 20) Diisopropyl ether        | 3.757          | 45   | 24600      | 2.842    | ug/l # | 80       |
| 21) 1,1-Dichloroethane       | 3.605          | 63   | 14467      | 2.817    | ug/l   | 96       |
| 22) cis-1,2-Dichloroethene   | 4.483          | 96   | 9239       | 2.839    | ug/l   | 99       |
| 23) tert-Butyl Alcohol       | 2.977          | 59   | 9295m      | 13.659   | ug/l   |          |
| 24) Methyl tert-Butyl Ether  | 3.111          | 73   | 25028      | 2.731    | ug/l   | 97       |
| 25) Chloroform               | 5.093          | 83   | 14569      | 2.855    | ug/l   | 95       |
| 26) Cyclohexane              | 5.458          | 56   | 13277      | 3.076    | ug/l # | 95       |
| 29) 1,1-Dichloropropene      | 5.684          | 75   | 9354       | 2.715    | ug/l   | 83       |
| 30) 2-Butanone               | 4.568          | 43   | 25232      | 13.330   | ug/l   | 97       |
| 31) 2,2-Dichloropropane      | 4.459          | 77   | 13635      | 2.859    | ug/l   | 93       |
| 32) 1,1,1-Trichloroethane    | 5.373          | 97   | 12827      | 2.809    | ug/l   | 99       |
| 33) Carbon Tetrachloride     | 5.660          | 117  | 10454      | 2.714    | ug/l   | 99       |
| 34) Benzene                  | 6.031          | 78   | 30189      | 2.746    | ug/l   | 99       |
| 35) Methacrylonitrile        | 4.928          | 41   | 5548m      | 2.622    | ug/l   |          |
| 36) 1,2-Dichloroethane       | 6.086          | 62   | 10468      | 2.663    | ug/l   | 100      |
| 37) Trichloroethene          | 7.123          | 130  | 7259       | 2.735    | ug/l   | 97       |
| 38) Methylcyclohexane        | 7.373          | 83   | 13113      | 2.801    | ug/l   | 96       |
| 39) 1,2-Dichloropropane      | 7.428          | 63   | 7532       | 2.747    | ug/l # | 83       |
| 40) Dibromomethane           | 7.580          | 93   | 5765       | 2.829    | ug/l   | 97       |
| 41) Bromodichloromethane     | 7.818          | 83   | 11658      | 2.770    | ug/l   | 99       |
| 42) Vinyl Acetate            | 3.721          | 43   | 107373     | 14.283   | ug/l   | 99       |

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 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MDL-WATER-03-QT4-2024

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 01/17/2025  
 Supervised By :Semsettin Yesilyurt 01/17/2025

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
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| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 43) Ethyl Acetate             | 4.727  | 43   | 9689     | 2.609  | ug/l  | # 95     |
| 44) Isopropyl Acetate         | 6.348  | 43   | 18451    | 2.766  | ug/l  | 98       |
| 45) 1,4-Dioxane               | 7.678  | 88   | 2989     | 47.056 | ug/l  | 93       |
| 46) Methyl methacrylate       | 7.702  | 41   | 8367     | 2.562  | ug/l  | 95       |
| 47) n-amyl Acetate            | 10.842 | 43   | 15579    | 2.783  | ug/l  | 99       |
| 48) t-1,3-Dichloropropene     | 8.982  | 75   | 11552    | 2.601  | ug/l  | 100      |
| 49) cis-1,3-Dichloropropene   | 8.366  | 75   | 12947    | 2.718  | ug/l  | 99       |
| 50) 1,1,2-Trichloroethane     | 9.147  | 97   | 7712     | 2.938  | ug/l  | 91       |
| 51) Ethyl methacrylate        | 9.122  | 69   | 12368    | 2.712  | ug/l  | 95       |
| 52) 1,3-Dichloropropane       | 9.305  | 76   | 12533    | 2.761  | ug/l  | 96       |
| 53) Dibromochloromethane      | 9.519  | 129  | 8882     | 2.832  | ug/l  | 99       |
| 54) 1,2-Dibromoethane         | 9.610  | 107  | 8018     | 2.890  | ug/l  | 95       |
| 55) 2-Chloroethyl vinyl ether | 8.238  | 63   | 21738    | 9.825  | ug/l  | 98       |
| 56) Bromoform                 | 10.799 | 173  | 5795     | 2.786  | ug/l  | 97       |
| 58) 4-Methyl-2-Pentanone      | 8.574  | 43   | 53297    | 14.687 | ug/l  | 99       |
| 59) 2-Hexanone                | 9.433  | 43   | 38849    | 14.623 | ug/l  | 99       |
| 61) Tetrachloroethene         | 9.275  | 164  | 5738     | 2.778  | ug/l  | 91       |
| 62) Toluene                   | 8.714  | 91   | 32478    | 2.865  | ug/l  | 100      |
| 64) Chlorobenzene             | 10.080 | 112  | 19930    | 2.831  | ug/l  | 96       |
| 65) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 7192     | 2.844  | ug/l  | 97       |
| 66) Ethyl Benzene             | 10.189 | 91   | 34171    | 2.762  | ug/l  | 100      |
| 67) m/p-Xylenes               | 10.299 | 106  | 24502    | 5.388  | ug/l  | 92       |
| 68) o-Xylene                  | 10.640 | 106  | 13277    | 2.909  | ug/l  | 97       |
| 69) Styrene                   | 10.653 | 104  | 21051    | 2.809  | ug/l  | 98       |
| 70) Isopropylbenzene          | 10.957 | 105  | 32694    | 2.849  | ug/l  | 99       |
| 71) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 11783    | 3.055  | ug/l  | 100      |
| 72) 1,2,3-Trichloropropane    | 11.238 | 75   | 9864m    | 3.040  | ug/l  |          |
| 73) Bromobenzene              | 11.201 | 156  | 7243     | 2.710  | ug/l  | 98       |
| 74) n-propylbenzene           | 11.305 | 91   | 34306    | 2.632  | ug/l  | 99       |
| 75) 2-Chlorotoluene           | 11.360 | 91   | 23236    | 2.836  | ug/l  | 99       |
| 76) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 26513    | 2.845  | ug/l  | 98       |
| 77) t-1,4-Dichloro-2-butene   | 11.018 | 75   | 4395     | 2.863  | ug/l  | 88       |
| 78) 4-Chlorotoluene           | 11.451 | 91   | 23996    | 2.658  | ug/l  | 97       |
| 79) tert-butylbenzene         | 11.713 | 119  | 27410    | 2.863  | ug/l  | 98       |
| 80) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 26066    | 2.773  | ug/l  | 99       |
| 81) sec-Butylbenzene          | 11.890 | 105  | 31924    | 2.793  | ug/l  | 100      |
| 82) p-Isopropyltoluene        | 12.006 | 119  | 25625    | 2.724  | ug/l  | 99       |
| 83) 1,3-Dichlorobenzene       | 11.969 | 146  | 12802    | 2.696  | ug/l  | 98       |
| 84) 1,4-Dichlorobenzene       | 12.043 | 146  | 12516    | 2.689  | ug/l  | 96       |
| 85) n-Butylbenzene            | 12.329 | 91   | 20750    | 2.544  | ug/l  | 98       |
| 86) Hexachloroethane          | 12.536 | 117  | 5619     | 2.715  | ug/l  | 99       |
| 87) 1,2-Dichlorobenzene       | 12.335 | 146  | 13568    | 2.862  | ug/l  | 98       |
| 88) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 2721     | 2.929  | ug/l  | 97       |
| 89) 1,2,4-Trichlorobenzene    | 13.591 | 180  | 7450     | 2.529  | ug/l  | 99       |
| 90) Hexachlorobutadiene       | 13.719 | 225  | 3152     | 2.766  | ug/l  | 93       |
| 91) Naphthalene               | 13.774 | 128  | 29831    | 2.706  | ug/l  | 99       |
| 92) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 7455     | 2.488  | ug/l  | 96       |

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

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Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
MDL-WATER-03-QT4-2024

Quant Time: Jan 17 02:52:20 2025  
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