

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX061025\  
 Data File : VX046621.D  
 Acq On : 10 Jun 2025 23:09  
 Operator : JC/MD  
 Sample : VX0610WBS02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0610WBS02

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 06/11/2025  
 Supervised By : Mahesh Dadoda 06/11/2025

Quant Time: Jun 11 06:50:16 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X061025W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Jun 11 06:20:28 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                        |                |      |                     |        |        |          |
| Internal Standards           |                |      |                     |        |        |          |
| 1) Bromochloromethane        | 4.916          | 128  | 19222               | 30.000 | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 6.769          | 114  | 103988              | 30.000 | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 10.055         | 117  | 93147               | 30.000 | ug/l   | 0.00     |
|                              |                |      |                     |        |        |          |
| System Monitoring Compounds  |                |      |                     |        |        |          |
| 27) 1,2-Dichloroethane-d4    | 5.970          | 65   | 46972               | 30.188 | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = 100.633% |        |        |          |
| 60) 4-Bromofluorobenzene     | 11.079         | 95   | 48257               | 30.736 | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = 102.467% |        |        |          |
| 63) Toluene-d8               | 8.653          | 98   | 127557              | 30.658 | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = 102.200% |        |        |          |
|                              |                |      |                     |        |        |          |
| Target Compounds             |                |      |                     |        |        |          |
|                              |                |      |                     |        | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.185          | 85   | 22013               | 17.615 | ug/l   | 98       |
| 3) Chloromethane             | 1.306          | 50   | 22281               | 17.305 | ug/l   | 99       |
| 4) Vinyl Chloride            | 1.386          | 62   | 21527               | 17.342 | ug/l   | 99       |
| 5) Bromomethane              | 1.630          | 94   | 14230               | 19.196 | ug/l   | 99       |
| 6) Chloroethane              | 1.703          | 64   | 12084               | 16.945 | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 1.904          | 101  | 32931               | 18.522 | ug/l   | 99       |
| 8) Diethyl Ether             | 2.148          | 74   | 11116               | 17.844 | ug/l   | 98       |
| 9) 1,1,2-Trichlorotrifluo... | 2.349          | 101  | 21513               | 18.186 | ug/l   | 98       |
| 10) 1,1-Dichloroethene       | 2.337          | 96   | 20702               | 18.041 | ug/l   | 98       |
| 11) Methyl Iodide            | 2.471          | 142  | 27414               | 17.524 | ug/l   | 99       |
| 12) Methyl Acetate           | 2.715          | 43   | 21915               | 15.152 | ug/l   | 99       |
| 13) Acrolein                 | 2.251          | 56   | 13175               | 92.958 | ug/l   | 95       |
| 14) Acrylonitrile            | 3.074          | 53   | 52348               | 88.070 | ug/l   | 100      |
| 15) Acetone                  | 2.392          | 58   | 11884               | 87.435 | ug/l   | 92       |
| 16) Carbon Disulfide         | 2.532          | 76   | 57403               | 18.031 | ug/l   | 99       |
| 17) Allyl chloride           | 2.678          | 41   | 37422               | 17.975 | ug/l   | 96       |
| 18) Methylene Chloride       | 2.806          | 84   | 22670               | 17.902 | ug/l   | 97       |
| 19) trans-1,2-Dichloroethene | 3.111          | 96   | 21879               | 18.399 | ug/l   | 99       |
| 20) Diisopropyl ether        | 3.769          | 45   | 73623               | 18.691 | ug/l # | 78       |
| 21) 1,1-Dichloroethane       | 3.623          | 63   | 40810               | 18.083 | ug/l   | 98       |
| 22) cis-1,2-Dichloroethene   | 4.501          | 96   | 24617               | 17.757 | ug/l   | 96       |
| 23) tert-Butyl Alcohol       | 2.959          | 59   | 10522               | 87.647 | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 3.123          | 73   | 63678               | 18.166 | ug/l   | 99       |
| 25) Chloroform               | 5.105          | 83   | 42274               | 18.199 | ug/l   | 98       |
| 26) Cyclohexane              | 5.483          | 56   | 38057               | 18.483 | ug/l # | 99       |
| 29) 1,1-Dichloropropene      | 5.702          | 75   | 29833               | 18.234 | ug/l   | 99       |
| 30) 2-Butanone               | 4.568          | 43   | 64429               | 88.378 | ug/l   | 99       |
| 31) 2,2-Dichloropropane      | 4.495          | 77   | 24376               | 16.782 | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 5.397          | 97   | 36617               | 18.113 | ug/l   | 98       |
| 33) Carbon Tetrachloride     | 5.690          | 117  | 32985               | 18.384 | ug/l   | 94       |
| 34) Benzene                  | 6.050          | 78   | 87048               | 18.109 | ug/l   | 96       |
| 35) Methacrylonitrile        | 4.934          | 41   | 15709               | 17.572 | ug/l   | 98       |
| 36) 1,2-Dichloroethane       | 6.098          | 62   | 33348               | 18.336 | ug/l   | 100      |
| 37) Trichloroethene          | 7.135          | 130  | 21199               | 17.575 | ug/l # | 79       |
| 38) Methylcyclohexane        | 7.391          | 83   | 37451               | 18.033 | ug/l   | 98       |
| 39) 1,2-Dichloropropane      | 7.433          | 63   | 21584               | 18.000 | ug/l   | 95       |
| 40) Dibromomethane           | 7.586          | 93   | 15985               | 17.832 | ug/l   | 100      |
| 41) Bromodichloromethane     | 7.830          | 83   | 33112               | 18.131 | ug/l   | 98       |
| 42) Vinyl Acetate            | 3.733          | 43   | 292460              | 92.970 | ug/l   | 98       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX061025\  
 Data File : VX046621.D  
 Acq On : 10 Jun 2025 23:09  
 Operator : JC/MD  
 Sample : VX0610WBS02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0610WBS02

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 06/11/2025  
 Supervised By : Mahesh Dadoda 06/11/2025

Quant Time: Jun 11 06:50:16 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X061025W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Jun 11 06:20:28 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 43) Ethyl Acetate             | 4.720  | 43   | 27654    | 17.908  | ug/l # | 88       |
| 44) Isopropyl Acetate         | 6.348  | 43   | 43509    | 18.012  | ug/l   | 99       |
| 45) 1,4-Dioxane               | 7.665  | 88   | 5579     | 366.160 | ug/l # | 89       |
| 46) Methyl methacrylate       | 7.696  | 41   | 23408    | 17.748  | ug/l   | 95       |
| 47) n-amyl Acetate            | 10.841 | 43   | 40603    | 18.792  | ug/l   | 100      |
| 48) t-1,3-Dichloropropene     | 8.982  | 75   | 28220    | 17.237  | ug/l   | 99       |
| 49) cis-1,3-Dichloropropene   | 8.372  | 75   | 32821    | 17.957  | ug/l   | 99       |
| 50) 1,1,2-Trichloroethane     | 9.153  | 97   | 20768    | 18.382  | ug/l   | 91       |
| 51) Ethyl methacrylate        | 9.116  | 69   | 30509    | 17.760  | ug/l   | 97       |
| 52) 1,3-Dichloropropane       | 9.311  | 76   | 36026    | 18.307  | ug/l   | 99       |
| 53) Dibromochloromethane      | 9.518  | 129  | 24458    | 18.367  | ug/l   | 99       |
| 54) 1,2-Dibromoethane         | 9.610  | 107  | 21366    | 17.979  | ug/l   | 98       |
| 55) 2-Chloroethyl vinyl ether | 8.244  | 63   | 90784    | 101.191 | ug/l   | 99       |
| 56) Bromoform                 | 10.799 | 173  | 14483    | 17.599  | ug/l   | 99       |
| 58) 4-Methyl-2-Pentanone      | 8.573  | 43   | 140128   | 92.485  | ug/l   | 99       |
| 59) 2-Hexanone                | 9.433  | 43   | 99238    | 92.843  | ug/l   | 99       |
| 61) Tetrachloroethene         | 9.275  | 164  | 17516    | 17.943  | ug/l   | 94       |
| 62) Toluene                   | 8.720  | 91   | 94378    | 18.696  | ug/l   | 98       |
| 64) Chlorobenzene             | 10.079 | 112  | 60711    | 18.646  | ug/l   | 100      |
| 65) 1,1,1,2-Tetrachloroethane | 10.165 | 131  | 20695    | 18.966  | ug/l   | 96       |
| 66) Ethyl Benzene             | 10.195 | 91   | 106657   | 18.504  | ug/l   | 99       |
| 67) m/p-Xylenes               | 10.299 | 106  | 80561    | 37.787  | ug/l   | 97       |
| 68) o-Xylene                  | 10.640 | 106  | 38128    | 18.574  | ug/l   | 99       |
| 69) Styrene                   | 10.652 | 104  | 65364    | 18.577  | ug/l   | 99       |
| 70) Isopropylbenzene          | 10.963 | 105  | 102929   | 18.684  | ug/l   | 100      |
| 71) 1,1,2,2-Tetrachloroethane | 11.207 | 83   | 30365    | 18.764  | ug/l   | 99       |
| 72) 1,2,3-Trichloropropane    | 11.238 | 75   | 24991m   | 18.499  | ug/l   |          |
| 73) Bromobenzene              | 11.195 | 156  | 23824    | 18.450  | ug/l   | 99       |
| 74) n-propylbenzene           | 11.305 | 91   | 124603   | 18.916  | ug/l   | 100      |
| 75) 2-Chlorotoluene           | 11.360 | 91   | 75026    | 19.025  | ug/l   | 99       |
| 76) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 86417    | 18.880  | ug/l   | 99       |
| 77) t-1,4-Dichloro-2-butene   | 11.018 | 75   | 7592     | 16.635  | ug/l   | 93       |
| 78) 4-Chlorotoluene           | 11.451 | 91   | 87714    | 19.225  | ug/l   | 100      |
| 79) tert-butylbenzene         | 11.713 | 119  | 86527    | 18.956  | ug/l   | 98       |
| 80) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 86969    | 19.240  | ug/l   | 98       |
| 81) sec-Butylbenzene          | 11.890 | 105  | 110683   | 18.948  | ug/l   | 99       |
| 82) p-Isopropyltoluene        | 12.006 | 119  | 92349    | 19.262  | ug/l   | 99       |
| 83) 1,3-Dichlorobenzene       | 11.969 | 146  | 46156    | 19.202  | ug/l   | 99       |
| 84) 1,4-Dichlorobenzene       | 12.042 | 146  | 45679    | 18.897  | ug/l   | 98       |
| 85) n-Butylbenzene            | 12.329 | 91   | 88946    | 19.258  | ug/l   | 99       |
| 86) Hexachloroethane          | 12.536 | 117  | 15002    | 18.018  | ug/l   | 98       |
| 87) 1,2-Dichlorobenzene       | 12.335 | 146  | 44694    | 19.327  | ug/l   | 98       |
| 88) 1,2-Dibromo-3-Chloropr... | 12.939 | 75   | 6386     | 19.130  | ug/l   | 96       |
| 89) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 28246    | 18.527  | ug/l   | 98       |
| 90) Hexachlorobutadiene       | 13.725 | 225  | 12836    | 19.121  | ug/l   | 99       |
| 91) Naphthalene               | 13.774 | 128  | 88858    | 18.371  | ug/l   | 100      |
| 92) 1,2,3-Trichlorobenzene    | 13.957 | 180  | 28750    | 19.212  | ug/l   | 100      |

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

