

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX031425\  
 Data File : VX045286.D  
 Acq On : 14 Mar 2025 10:50  
 Operator : JC/MD  
 Sample : VX0314WBS01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0314WBS01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 03/18/2025  
 Supervised By : Mahesh Dadoda 03/18/2025

Quant Time: Mar 15 03:52:57 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Feb 22 01:06:36 2025  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|------------------------------|--------|-------|----------|----------|------------|----------|
| -----                        |        |       |          |          |            |          |
| Internal Standards           |        |       |          |          |            |          |
| 1) Bromochloromethane        | 4.891  | 128   | 16027    | 30.000   | ug/l       | 0.00     |
| 28) 1,4-Difluorobenzene      | 6.757  | 114   | 88526    | 30.000   | ug/l       | 0.00     |
| 57) Chlorobenzene-d5         | 10.049 | 117   | 80688    | 30.000   | ug/l       | 0.00     |
| System Monitoring Compounds  |        |       |          |          |            |          |
| 27) 1,2-Dichloroethane-d4    | 5.946  | 65    | 51350    | 32.988   | ug/l       | 0.00     |
| Spiked Amount                | 30.000 | Range | 91 - 110 | Recovery | = 109.967% |          |
| 60) 4-Bromofluorobenzene     | 11.079 | 95    | 46424    | 30.782   | ug/l       | 0.00     |
| Spiked Amount                | 30.000 | Range | 63 - 112 | Recovery | = 102.600% |          |
| 63) Toluene-d8               | 8.646  | 98    | 137890   | 30.891   | ug/l       | 0.00     |
| Spiked Amount                | 30.000 | Range | 91 - 112 | Recovery | = 102.967% |          |
| Target Compounds             |        |       |          |          |            | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.166  | 85    | 26148    | 19.354   | ug/l       | 92       |
| 3) Chloromethane             | 1.300  | 50    | 28918    | 17.870   | ug/l       | 95       |
| 4) Vinyl Chloride            | 1.373  | 62    | 25871    | 16.568   | ug/l       | 100      |
| 5) Bromomethane              | 1.593  | 94    | 11125    | 20.468   | ug/l       | 98       |
| 6) Chloroethane              | 1.666  | 64    | 14379    | 17.002   | ug/l       | 100      |
| 7) Trichlorofluoromethane    | 1.867  | 101   | 37504    | 17.870   | ug/l       | 93       |
| 8) Diethyl Ether             | 2.129  | 74    | 12666    | 15.951   | ug/l       | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 2.318  | 101   | 24242    | 19.449   | ug/l       | 97       |
| 10) 1,1-Dichloroethene       | 2.306  | 96    | 22775    | 18.707   | ug/l       | 84       |
| 11) Methyl Iodide            | 2.440  | 142   | 27411    | 19.892   | ug/l       | 98       |
| 12) Methyl Acetate           | 2.702  | 43    | 40788    | 28.850   | ug/l       | 98       |
| 13) Acrolein                 | 2.233  | 56    | 24059    | 84.899   | ug/l       | 100      |
| 14) Acrylonitrile            | 3.062  | 53    | 72442    | 104.901  | ug/l       | 97       |
| 15) Acetone                  | 2.385  | 58    | 22646    | 119.570  | ug/l       | 95       |
| 16) Carbon Disulfide         | 2.501  | 76    | 53918    | 15.613   | ug/l       | 99       |
| 17) Allyl chloride           | 2.654  | 41    | 41715    | 18.319   | ug/l       | 98       |
| 18) Methylene Chloride       | 2.782  | 84    | 26057    | 19.028   | ug/l       | 98       |
| 19) trans-1,2-Dichloroethene | 3.080  | 96    | 22728    | 18.452   | ug/l       | 92       |
| 20) Diisopropyl ether        | 3.757  | 45    | 83369    | 19.052   | ug/l       | 92       |
| 21) 1,1-Dichloroethane       | 3.599  | 63    | 46141    | 18.960   | ug/l       | 100      |
| 22) cis-1,2-Dichloroethene   | 4.476  | 96    | 27141    | 18.388   | ug/l       | 95       |
| 23) tert-Butyl Alcohol       | 2.977  | 59    | 21962    | 91.097   | ug/l #     | 100      |
| 24) Methyl tert-Butyl Ether  | 3.111  | 73    | 74561    | 18.764   | ug/l       | 97       |
| 25) Chloroform               | 5.080  | 83    | 45989    | 19.564   | ug/l       | 98       |
| 26) Cyclohexane              | 5.458  | 56    | 39967    | 17.792   | ug/l #     | 97       |
| 29) 1,1-Dichloropropene      | 5.690  | 75    | 30317    | 18.617   | ug/l       | 99       |
| 30) 2-Butanone               | 4.556  | 43    | 106830   | 113.578  | ug/l       | 99       |
| 31) 2,2-Dichloropropane      | 4.464  | 77    | 31589    | 17.155   | ug/l       | 99       |
| 32) 1,1,1-Trichloroethane    | 5.373  | 97    | 37094    | 18.800   | ug/l       | 98       |
| 33) Carbon Tetrachloride     | 5.665  | 117   | 32166    | 19.317   | ug/l       | 93       |
| 34) Benzene                  | 6.031  | 78    | 95210    | 18.644   | ug/l       | 97       |
| 35) Methacrylonitrile        | 4.922  | 41    | 21141    | 21.004   | ug/l       | 97       |
| 36) 1,2-Dichloroethane       | 6.080  | 62    | 35379    | 20.235   | ug/l       | 97       |
| 37) Trichloroethene          | 7.122  | 130   | 22590    | 18.908   | ug/l       | 98       |
| 38) Methylcyclohexane        | 7.372  | 83    | 40108    | 18.343   | ug/l       | 99       |
| 39) 1,2-Dichloropropane      | 7.427  | 63    | 24251    | 19.101   | ug/l       | 98       |
| 40) Dibromomethane           | 7.580  | 93    | 18375    | 20.168   | ug/l       | 97       |
| 41) Bromodichloromethane     | 7.817  | 83    | 35807    | 19.774   | ug/l       | 98       |
| 42) Vinyl Acetate            | 3.714  | 43    | 332676   | 91.144   | ug/l       | 99       |

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 Operator : JC/MD  
 Sample : VX0314WBS01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0314WBS01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 03/18/2025  
 Supervised By : Mahesh Dadoda 03/18/2025

Quant Time: Mar 15 03:52:57 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Feb 22 01:06:36 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 43) Ethyl Acetate             | 4.714  | 43   | 35199    | 19.955  | ug/l  | 98       |
| 44) Isopropyl Acetate         | 6.336  | 43   | 55917    | 19.261  | ug/l  | 97       |
| 45) 1,4-Dioxane               | 7.659  | 88   | 10638    | 352.489 | ug/l  | 97       |
| 46) Methyl methacrylate       | 7.689  | 41   | 28686    | 20.151  | ug/l  | 93       |
| 47) n-amyl Acetate            | 10.841 | 43   | 47912    | 19.019  | ug/l  | 100      |
| 48) t-1,3-Dichloropropene     | 8.976  | 75   | 29844    | 17.099  | ug/l  | 96       |
| 49) cis-1,3-Dichloropropene   | 8.360  | 75   | 34894    | 17.661  | ug/l  | 95       |
| 50) 1,1,2-Trichloroethane     | 9.146  | 97   | 22966    | 19.325  | ug/l  | 92       |
| 51) Ethyl methacrylate        | 9.116  | 69   | 35374    | 18.927  | ug/l  | 97       |
| 52) 1,3-Dichloropropane       | 9.305  | 76   | 41412    | 19.888  | ug/l  | 99       |
| 53) Dibromochloromethane      | 9.518  | 129  | 26074    | 19.838  | ug/l  | 100      |
| 54) 1,2-Dibromoethane         | 9.604  | 107  | 23935    | 19.834  | ug/l  | 97       |
| 55) 2-Chloroethyl vinyl ether | 8.238  | 63   | 95369    | 99.365  | ug/l  | 99       |
| 56) Bromoform                 | 10.799 | 173  | 15851    | 19.246  | ug/l  | 99       |
| 58) 4-Methyl-2-Pentanone      | 8.573  | 43   | 202990   | 110.592 | ug/l  | 100      |
| 59) 2-Hexanone                | 9.427  | 43   | 150297   | 113.286 | ug/l  | 99       |
| 61) Tetrachloroethene         | 9.268  | 164  | 19861    | 19.989  | ug/l  | 98       |
| 62) Toluene                   | 8.714  | 91   | 102099   | 19.101  | ug/l  | 98       |
| 64) Chlorobenzene             | 10.079 | 112  | 62926    | 18.998  | ug/l  | 98       |
| 65) 1,1,1,2-Tetrachloroethane | 10.158 | 131  | 20981    | 19.197  | ug/l  | 98       |
| 66) Ethyl Benzene             | 10.189 | 91   | 111664   | 19.082  | ug/l  | 94       |
| 67) m/p-Xylenes               | 10.299 | 106  | 84024    | 38.538  | ug/l  | 97       |
| 68) o-Xylene                  | 10.640 | 106  | 41215    | 19.266  | ug/l  | 99       |
| 69) Styrene                   | 10.652 | 104  | 67348    | 18.850  | ug/l  | 97       |
| 70) Isopropylbenzene          | 10.957 | 105  | 108595   | 19.671  | ug/l  | 98       |
| 71) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 37905    | 20.881  | ug/l  | 99       |
| 72) 1,2,3-Trichloropropane    | 11.237 | 75   | 30748m   | 20.593  | ug/l  |          |
| 73) Bromobenzene              | 11.195 | 156  | 24655    | 19.400  | ug/l  | 97       |
| 74) n-propylbenzene           | 11.298 | 91   | 127460   | 19.402  | ug/l  | 99       |
| 75) 2-Chlorotoluene           | 11.359 | 91   | 78036    | 19.648  | ug/l  | 98       |
| 76) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 88806    | 19.499  | ug/l  | 100      |
| 77) t-1,4-Dichloro-2-butene   | 11.018 | 75   | 9001     | 17.918  | ug/l  | 75       |
| 78) 4-Chlorotoluene           | 11.451 | 91   | 86271    | 19.486  | ug/l  | 97       |
| 79) tert-butylbenzene         | 11.713 | 119  | 89649    | 19.537  | ug/l  | 98       |
| 80) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 90836    | 19.911  | ug/l  | 100      |
| 81) sec-Butylbenzene          | 11.890 | 105  | 112033   | 19.453  | ug/l  | 100      |
| 82) p-Isopropyltoluene        | 12.006 | 119  | 91002    | 19.502  | ug/l  | 99       |
| 83) 1,3-Dichlorobenzene       | 11.969 | 146  | 45537    | 19.258  | ug/l  | 99       |
| 84) 1,4-Dichlorobenzene       | 12.036 | 146  | 44970    | 19.289  | ug/l  | 99       |
| 85) n-Butylbenzene            | 12.329 | 91   | 81061    | 19.023  | ug/l  | 99       |
| 86) Hexachloroethane          | 12.536 | 117  | 15708    | 19.087  | ug/l  | 100      |
| 87) 1,2-Dichlorobenzene       | 12.335 | 146  | 46343    | 19.975  | ug/l  | 98       |
| 88) 1,2-Dibromo-3-Chloropr... | 12.938 | 75   | 7473     | 21.262  | ug/l  | 92       |
| 89) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 25507    | 18.140  | ug/l  | 97       |
| 90) Hexachlorobutadiene       | 13.725 | 225  | 11137    | 19.421  | ug/l  | 97       |
| 91) Naphthalene               | 13.774 | 128  | 93373    | 18.832  | ug/l  | 100      |
| 92) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 26807    | 18.518  | ug/l  | 98       |

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

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 Acq On : 14 Mar 2025 10:50  
 Operator : JC/MD  
 Sample : VX0314WBS01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0314WBS01

### Manual Integrations APPROVED

Reviewed By :John Carlone 03/18/2025  
 Supervised By :Mahesh Dadoda 03/18/2025

Quant Time: Mar 15 03:52:57 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Feb 22 01:06:36 2025  
 Response via : Initial Calibration

