

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080525\  
 Data File : VN087460.D  
 Acq On : 05 Aug 2025 16:50  
 Operator : JC\MD  
 Sample : VN0805WBSD02  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0805WBSD02

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 08/06/2025  
 Supervised By : Mahesh Dadoda 08/06/2025

Quant Time: Aug 06 02:42:33 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Bromochloromethane        | 7.794          | 128  | 68244               | 30.000  | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.082          | 114  | 391524              | 30.000  | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.847         | 117  | 351439              | 30.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.565          | 65   | 193699              | 30.773  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = 102.567% |         |        |          |
| 60) 4-Bromofluorobenzene     | 12.829         | 95   | 179372              | 29.658  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = 98.867%  |         |        |          |
| 63) Toluene-d8               | 10.547         | 98   | 484798              | 29.980  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = 99.933%  |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.142          | 85   | 92285               | 20.712  | ug/l   | 95       |
| 3) Chloromethane             | 2.383          | 50   | 85828               | 18.775  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.542          | 62   | 94978               | 19.589  | ug/l   | 92       |
| 5) Bromomethane              | 2.983          | 94   | 55111               | 20.999  | ug/l   | 82       |
| 6) Chloroethane              | 3.136          | 64   | 60563               | 19.371  | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.512          | 101  | 139680              | 20.017  | ug/l   | 97       |
| 8) Diethyl Ether             | 3.959          | 74   | 56764               | 19.526  | ug/l   | 100      |
| 9) 1,1,2-Trichlorotrifluo... | 4.359          | 101  | 74225               | 20.859  | ug/l   | 87       |
| 10) 1,1-Dichloroethene       | 4.336          | 96   | 73129               | 19.565  | ug/l   | 87       |
| 11) Methyl Iodide            | 4.583          | 142  | 49826               | 16.930  | ug/l   | 94       |
| 12) Methyl Acetate           | 5.018          | 43   | 128243              | 18.593  | ug/l # | 88       |
| 13) Acrolein                 | 4.171          | 56   | 111329              | 105.679 | ug/l   | 97       |
| 14) Acrylonitrile            | 5.706          | 53   | 287878              | 95.582  | ug/l   | 97       |
| 15) Acetone                  | 4.418          | 58   | 77914               | 90.539  | ug/l   | 87       |
| 16) Carbon Disulfide         | 4.706          | 76   | 223633              | 19.289  | ug/l   | 99       |
| 17) Allyl chloride           | 5.018          | 41   | 139961              | 18.372  | ug/l   | 86       |
| 18) Methylene Chloride       | 5.271          | 84   | 90747m              | 18.860  | ug/l   |          |
| 19) trans-1,2-Dichloroethene | 5.771          | 96   | 82245               | 18.504  | ug/l   | 97       |
| 20) Diisopropyl ether        | 6.659          | 45   | 325076              | 18.731  | ug/l # | 95       |
| 21) 1,1-Dichloroethane       | 6.559          | 63   | 166012              | 18.505  | ug/l   | 99       |
| 22) cis-1,2-Dichloroethene   | 7.471          | 96   | 101299              | 18.523  | ug/l   | 99       |
| 23) tert-Butyl Alcohol       | 5.530          | 59   | 125590m             | 98.131  | ug/l   |          |
| 24) Methyl tert-Butyl Ether  | 5.783          | 73   | 315904              | 18.548  | ug/l   | 98       |
| 25) Chloroform               | 7.947          | 83   | 173319              | 18.509  | ug/l   | 91       |
| 26) Cyclohexane              | 8.235          | 56   | 145058              | 20.196  | ug/l # | 99       |
| 29) 1,1-Dichloropropene      | 8.353          | 75   | 115215              | 18.042  | ug/l   | 99       |
| 30) 2-Butanone               | 7.471          | 43   | 433203              | 92.033  | ug/l   | 99       |
| 31) 2,2-Dichloropropane      | 7.477          | 77   | 150332              | 18.253  | ug/l   | 99       |
| 32) 1,1,1-Trichloroethane    | 8.147          | 97   | 150740              | 18.508  | ug/l   | 98       |
| 33) Carbon Tetrachloride     | 8.341          | 117  | 124218              | 18.359  | ug/l   | 98       |
| 34) Benzene                  | 8.588          | 78   | 360734              | 17.895  | ug/l   | 97       |
| 35) Methacrylonitrile        | 7.765          | 41   | 95111               | 18.724  | ug/l   | 97       |
| 36) 1,2-Dichloroethane       | 8.653          | 62   | 146883              | 18.028  | ug/l # | 85       |
| 37) Trichloroethene          | 9.335          | 130  | 80299               | 18.084  | ug/l   | 94       |
| 38) Methylcyclohexane        | 9.582          | 83   | 150575              | 20.326  | ug/l   | 98       |
| 39) 1,2-Dichloropropane      | 9.600          | 63   | 92517               | 17.901  | ug/l   | 100      |
| 40) Dibromomethane           | 9.694          | 93   | 70139               | 18.088  | ug/l   | 97       |
| 41) Bromodichloromethane     | 9.871          | 83   | 139943              | 17.367  | ug/l   | 100      |
| 42) Vinyl Acetate            | 6.588          | 43   | 1413954             | 91.216  | ug/l   | 99       |

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 Sample : VN0805WBSD02  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0805WBSD02

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 08/06/2025  
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Quant Time: Aug 06 02:42:33 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 43) Ethyl Acetate             | 7.547  | 43   | 167461   | 18.415  | ug/l   | 96       |
| 44) Isopropyl Acetate         | 8.677  | 43   | 281180   | 18.241  | ug/l   | 99       |
| 45) 1,4-Dioxane               | 9.682  | 88   | 38943    | 396.299 | ug/l   | 95       |
| 46) Methyl methacrylate       | 9.665  | 41   | 130935   | 17.995  | ug/l   | 96       |
| 47) n-amyl Acetate            | 12.529 | 43   | 160288m  | 18.824  | ug/l   |          |
| 48) t-1,3-Dichloropropene     | 10.818 | 75   | 152532   | 17.400  | ug/l   | 99       |
| 49) cis-1,3-Dichloropropene   | 10.294 | 75   | 158190   | 17.931  | ug/l   | 98       |
| 50) 1,1,2-Trichloroethane     | 10.994 | 97   | 87290    | 17.816  | ug/l   | 97       |
| 51) Ethyl methacrylate        | 10.859 | 69   | 156339   | 18.119  | ug/l   | 94       |
| 52) 1,3-Dichloropropane       | 11.147 | 76   | 160044   | 18.132  | ug/l   | 100      |
| 53) Dibromochloromethane      | 11.341 | 129  | 100180   | 17.705  | ug/l   | 100      |
| 54) 1,2-Dibromoethane         | 11.447 | 107  | 92245    | 17.736  | ug/l   | 98       |
| 55) 2-Chloroethyl vinyl ether | 10.141 | 63   | 438223   | 96.474  | ug/l   | 100      |
| 56) Bromoform                 | 12.559 | 173  | 64286    | 17.177  | ug/l # | 96       |
| 58) 4-Methyl-2-Pentanone      | 10.429 | 43   | 847427   | 93.735  | ug/l   | 100      |
| 59) 2-Hexanone                | 11.176 | 43   | 554894   | 90.334  | ug/l   | 99       |
| 61) Tetrachloroethene         | 11.082 | 164  | 65396    | 19.100  | ug/l   | 96       |
| 62) Toluene                   | 10.612 | 91   | 391886   | 18.067  | ug/l   | 99       |
| 64) Chlorobenzene             | 11.871 | 112  | 238431   | 17.889  | ug/l   | 98       |
| 65) 1,1,1,2-Tetrachloroethane | 11.941 | 131  | 82205    | 17.542  | ug/l   | 98       |
| 66) Ethyl Benzene             | 11.941 | 91   | 441499   | 18.262  | ug/l   | 98       |
| 67) m/p-Xylenes               | 12.047 | 106  | 323770   | 36.484  | ug/l   | 98       |
| 68) o-Xylene                  | 12.376 | 106  | 155852   | 17.852  | ug/l   | 99       |
| 69) Styrene                   | 12.394 | 104  | 263173   | 17.654  | ug/l   | 98       |
| 70) Isopropylbenzene          | 12.676 | 105  | 409369   | 18.456  | ug/l   | 100      |
| 71) 1,1,2,2-Tetrachloroethane | 12.918 | 83   | 140719   | 18.516  | ug/l   | 99       |
| 72) 1,2,3-Trichloropropane    | 12.976 | 75   | 120595m  | 17.034  | ug/l   |          |
| 73) Bromobenzene              | 12.959 | 156  | 91566    | 17.808  | ug/l   | 98       |
| 74) n-propylbenzene           | 13.012 | 91   | 517842   | 18.694  | ug/l   | 99       |
| 75) 2-Chlorotoluene           | 13.106 | 91   | 306609   | 17.994  | ug/l   | 100      |
| 76) 1,3,5-Trimethylbenzene    | 13.153 | 105  | 349695   | 18.414  | ug/l   | 99       |
| 77) t-1,4-Dichloro-2-butene   | 12.718 | 75   | 44947    | 16.771  | ug/l   | 89       |
| 78) 4-Chlorotoluene           | 13.200 | 91   | 314714   | 18.226  | ug/l   | 98       |
| 79) tert-butylbenzene         | 13.417 | 119  | 296975   | 18.547  | ug/l   | 95       |
| 80) 1,2,4-Trimethylbenzene    | 13.459 | 105  | 347846   | 18.330  | ug/l   | 100      |
| 81) sec-Butylbenzene          | 13.594 | 105  | 451234   | 19.358  | ug/l   | 99       |
| 82) p-Isopropyltoluene        | 13.706 | 119  | 370850   | 19.161  | ug/l   | 99       |
| 83) 1,3-Dichlorobenzene       | 13.712 | 146  | 175938   | 17.969  | ug/l   | 99       |
| 84) 1,4-Dichlorobenzene       | 13.794 | 146  | 182288   | 18.363  | ug/l   | 99       |
| 85) n-Butylbenzene            | 14.035 | 91   | 363591   | 19.201  | ug/l   | 99       |
| 86) Hexachloroethane          | 14.312 | 117  | 67299    | 17.806  | ug/l   | 95       |
| 87) 1,2-Dichlorobenzene       | 14.082 | 146  | 172808   | 18.489  | ug/l   | 97       |
| 88) 1,2-Dibromo-3-Chloropr... | 14.700 | 75   | 35198    | 18.282  | ug/l   | 96       |
| 89) 1,2,4-Trichlorobenzene    | 15.817 | 180  | 99696    | 17.849  | ug/l   | 97       |
| 90) Hexachlorobutadiene       | 15.470 | 225  | 42024    | 19.348  | ug/l   | 94       |
| 91) Naphthalene               | 15.617 | 128  | 387984   | 18.217  | ug/l   | 99       |
| 92) 1,2,3-Trichlorobenzene    | 15.817 | 180  | 99696    | 17.849  | ug/l   | 97       |

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

