

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN073025\  
 Data File : VN087437.D  
 Acq On : 30 Jul 2025 09:19  
 Operator : JC\MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC020

Quant Time: Jul 31 01:10:55 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N072825W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Mon Jul 28 11:35:47 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | Amount  | Calc.   | %Dev   | Area% | Dev(min) |
|------|-----------------------------|---------|---------|--------|-------|----------|
| 1 I  | Bromochloromethane          | 30.000  | 30.000  | 0.0    | 52    | 0.00     |
| 2 M  | Dichlorodifluoromethane     | 20.000  | 17.955  | 10.2   | 45    | 0.00     |
| 3 M  | Chloromethane               | 20.000  | 17.981  | 10.1   | 47    | 0.00     |
| 4 M  | Vinyl Chloride              | 20.000  | 17.070  | 14.6   | 45    | 0.00     |
| 5 M  | Bromomethane                | 20.000  | 16.508  | 17.5   | 44    | 0.00     |
| 6 M  | Chloroethane                | 20.000  | 19.267  | 3.7    | 50    | 0.00     |
| 7 M  | Trichlorofluoromethane      | 20.000  | 19.251  | 3.7    | 51    | 0.00     |
| 8 T  | Diethyl Ether               | 20.000  | 20.531  | -2.7   | 53    | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 20.000  | 18.789  | 6.1    | 50    | 0.00     |
| 10 M | 1,1-Dichloroethene          | 20.000  | 19.854  | 0.7    | 51    | 0.00     |
| 11   | Methyl Iodide               | 20.000  | 12.950  | 35.3#  | 44    | 0.00     |
| 12   | Methyl Acetate              | 20.000  | 19.758  | 1.2    | 52    | 0.00     |
| 13 M | Acrolein                    | 100.000 | 133.171 | -33.2# | 88    | -0.01    |
| 14 M | Acrylonitrile               | 100.000 | 94.693  | 5.3    | 49    | 0.00     |
| 15 M | Acetone                     | 100.000 | 120.495 | -20.5  | 60    | -0.01    |
| 16 M | Carbon Disulfide            | 20.000  | 16.091  | 19.5   | 43    | 0.00     |
| 17   | Allyl chloride              | 20.000  | 18.322  | 8.4    | 48    | 0.00     |
| 18 M | Methylene Chloride          | 20.000  | 17.257  | 13.7   | 45    | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 20.000  | 16.664  | 16.7   | 45    | 0.00     |
| 20 T | Diisopropyl ether           | 20.000  | 19.006  | 5.0    | 49    | 0.00     |
| 21 M | 1,1-Dichloroethane          | 20.000  | 18.424  | 7.9    | 48    | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 20.000  | 17.849  | 10.8   | 47    | 0.00     |
| 23 M | tert-Butyl Alcohol          | 100.000 | 96.778  | 3.2    | 51    | 0.00     |
| 24 M | Methyl tert-Butyl Ether     | 20.000  | 18.475  | 7.6    | 49    | 0.00     |
| 25 M | Chloroform                  | 20.000  | 18.351  | 8.2    | 49    | 0.00     |
| 26   | Cyclohexane                 | 20.000  | 16.613  | 16.9   | 44    | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 30.000  | 31.947  | -6.5   | 56    | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 30.000  | 30.000  | 0.0    | 53    | 0.00     |
| 29   | 1,1-Dichloropropene         | 20.000  | 17.426  | 12.9   | 46    | 0.00     |
| 30 M | 2-Butanone                  | 100.000 | 98.166  | 1.8    | 51    | 0.00     |
| 31   | 2,2-Dichloropropane         | 20.000  | 17.851  | 10.7   | 46    | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 20.000  | 17.457  | 12.7   | 46    | 0.00     |
| 33 M | Carbon Tetrachloride        | 20.000  | 17.457  | 12.7   | 46    | 0.00     |
| 34 M | Benzene                     | 20.000  | 17.890  | 10.5   | 47    | 0.00     |
| 35   | Methacrylonitrile           | 20.000  | 18.456  | 7.7    | 49    | 0.00     |
| 36 M | 1,2-Dichloroethane          | 20.000  | 18.702  | 6.5    | 49    | 0.00     |
| 37 M | Trichloroethene             | 20.000  | 17.238  | 13.8   | 46    | 0.00     |
| 38   | Methylcyclohexane           | 20.000  | 15.676  | 21.6   | 42    | 0.00     |
| 39 M | 1,2-Dichloropropane         | 20.000  | 18.669  | 6.7    | 50    | 0.00     |
| 40   | Dibromomethane              | 20.000  | 18.893  | 5.5    | 52    | 0.00     |
| 41 M | Bromodichloromethane        | 20.000  | 18.951  | 5.2    | 52    | 0.00     |
| 42 M | Vinyl Acetate               | 100.000 | 93.905  | 6.1    | 50    | 0.00     |
| 43   | Ethyl Acetate               | 20.000  | 18.741  | 6.3    | 46    | 0.00     |
| 44   | Isopropyl Acetate           | 20.000  | 19.723  | 1.4    | 52    | 0.00     |
| 45 T | 1,4-Dioxane                 | 400.000 | 427.865 | -7.0   | 53    | 0.00     |
| 46   | Methyl methacrylate         | 20.000  | 18.643  | 6.8    | 52    | 0.00     |
| 47   | n-amyl Acetate              | 20.000  | 19.252  | 3.7    | 85    | 0.00     |
| 48 M | t-1,3-Dichloropropene       | 20.000  | 18.640  | 6.8    | 52    | 0.00     |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC020

Quant Time: Jul 31 01:10:55 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N072825W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Mon Jul 28 11:35:47 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | Amount  | Calc.   | %Dev   | Area% | Dev(min) |
|------|-----------------------------|---------|---------|--------|-------|----------|
| 49 T | cis-1,3-Dichloropropene     | 20.000  | 18.369  | 8.2    | 51    | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 20.000  | 18.122  | 9.4    | 50    | 0.00     |
| 51   | Ethyl methacrylate          | 20.000  | 18.573  | 7.1    | 52    | 0.00     |
| 52   | 1,3-Dichloropropane         | 20.000  | 18.820  | 5.9    | 53    | 0.00     |
| 53 M | Dibromochloromethane        | 20.000  | 18.687  | 6.6    | 53    | 0.00     |
| 54 M | 1,2-Dibromoethane           | 20.000  | 18.546  | 7.3    | 52    | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 100.000 | 129.542 | -29.5# | 66    | 0.00     |
| 56 M | Bromoform                   | 20.000  | 17.103  | 14.5   | 48    | 0.00     |
| 57 I | Chlorobenzene-d5            | 30.000  | 30.000  | 0.0    | 57    | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 100.000 | 98.851  | 1.1    | 55    | 0.00     |
| 59 M | 2-Hexanone                  | 100.000 | 95.341  | 4.7    | 54    | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 30.000  | 28.970  | 3.4    | 55    | 0.00     |
| 61 M | Tetrachloroethene           | 20.000  | 16.840  | 15.8   | 49    | 0.00     |
| 62 M | Toluene                     | 20.000  | 17.633  | 11.8   | 51    | 0.00     |
| 63 S | Toluene-d8                  | 30.000  | 30.386  | -1.3   | 58    | 0.00     |
| 64 M | Chlorobenzene               | 20.000  | 17.469  | 12.7   | 50    | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 20.000  | 18.276  | 8.6    | 51    | 0.00     |
| 66 M | Ethyl Benzene               | 20.000  | 17.757  | 11.2   | 50    | 0.00     |
| 67 M | m/p-Xylenes                 | 40.000  | 35.175  | 12.1   | 50    | 0.00     |
| 68 M | o-Xylene                    | 20.000  | 18.040  | 9.8    | 50    | 0.00     |
| 69 M | Styrene                     | 20.000  | 17.775  | 11.1   | 50    | 0.00     |
| 70   | Isopropylbenzene            | 20.000  | 17.484  | 12.6   | 49    | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 20.000  | 18.413  | 7.9    | 52    | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 20.000  | 16.917  | 15.4   | 44    | 0.00     |
| 73   | Bromobenzene                | 20.000  | 17.540  | 12.3   | 51    | 0.00     |
| 74   | n-propylbenzene             | 20.000  | 17.483  | 12.6   | 49    | 0.00     |
| 75   | 2-Chlorotoluene             | 20.000  | 17.591  | 12.0   | 50    | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 20.000  | 17.744  | 11.3   | 50    | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 20.000  | 15.601  | 22.0   | 46    | 0.00     |
| 78   | 4-Chlorotoluene             | 20.000  | 18.089  | 9.6    | 50    | 0.00     |
| 79   | tert-butylbenzene           | 20.000  | 17.696  | 11.5   | 49    | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 20.000  | 17.925  | 10.4   | 50    | 0.00     |
| 81   | sec-Butylbenzene            | 20.000  | 17.510  | 12.4   | 49    | 0.00     |
| 82   | p-Isopropyltoluene          | 20.000  | 17.780  | 11.1   | 49    | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 20.000  | 17.817  | 10.9   | 49    | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 20.000  | 17.446  | 12.8   | 48    | 0.00     |
| 85   | n-Butylbenzene              | 20.000  | 17.223  | 13.9   | 49    | 0.00     |
| 86 T | Hexachloroethane            | 20.000  | 17.727  | 11.4   | 50    | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 20.000  | 18.353  | 8.2    | 52    | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 20.000  | 17.311  | 13.4   | 50    | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 20.000  | 16.667  | 16.7   | 48    | 0.00     |
| 90   | Hexachlorobutadiene         | 20.000  | 15.606  | 22.0   | 45    | 0.00     |
| 91 M | Naphthalene                 | 20.000  | 17.547  | 12.3   | 50    | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 20.000  | 16.667  | 16.7   | 48    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0