

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN101725\  
 Data File : VN088055.D  
 Acq On : 17 Oct 2025 09:29  
 Operator : JC\MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC020

Quant Time: Oct 18 01:18:00 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N100825W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu Oct 09 02:36:32 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   | 96    | 0.00     |
| 2 M  | Dichlorodifluoromethane     | 20.000  | 17.514  | 12.4  | 81    | 0.00     |
| 3 M  | Chloromethane               | 20.000  | 17.024  | 14.9  | 82    | 0.00     |
| 4 M  | Vinyl Chloride              | 20.000  | 17.453  | 12.7  | 84    | 0.00     |
| 5 M  | Bromomethane                | 20.000  | 17.904  | 10.5  | 90    | 0.00     |
| 6 M  | Chloroethane                | 20.000  | 17.527  | 12.4  | 85    | 0.00     |
| 7 M  | Trichlorofluoromethane      | 20.000  | 18.105  | 9.5   | 88    | 0.01     |
| 8 T  | Diethyl Ether               | 20.000  | 17.544  | 12.3  | 86    | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 20.000  | 17.658  | 11.7  | 86    | 0.00     |
| 10 M | 1,1-Dichloroethene          | 20.000  | 17.542  | 12.3  | 85    | 0.00     |
| 11   | Methyl Iodide               | 20.000  | 14.123  | 29.4# | 82    | 0.00     |
| 12   | Methyl Acetate              | 20.000  | 18.097  | 9.5   | 88    | 0.00     |
| 13 M | Acrolein                    | 100.000 | 92.008  | 8.0   | 100   | 0.00     |
| 14 M | Acrylonitrile               | 100.000 | 85.644  | 14.4  | 84    | 0.00     |
| 15 M | Acetone                     | 100.000 | 91.155  | 8.8   | 87    | 0.00     |
| 16 M | Carbon Disulfide            | 20.000  | 17.201  | 14.0  | 84    | 0.01     |
| 17   | Allyl chloride              | 20.000  | 17.251  | 13.7  | 84    | 0.00     |
| 18 M | Methylene Chloride          | 20.000  | 17.377  | 13.1  | 86    | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 20.000  | 17.471  | 12.6  | 84    | 0.00     |
| 20 T | Diisopropyl ether           | 20.000  | 18.007  | 10.0  | 87    | 0.00     |
| 21 M | 1,1-Dichloroethane          | 20.000  | 17.877  | 10.6  | 86    | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 20.000  | 17.125  | 14.4  | 83    | 0.00     |
| 23 M | tert-Butyl Alcohol          | 100.000 | 77.626  | 22.4  | 75    | -0.01    |
| 24 M | Methyl tert-Butyl Ether     | 20.000  | 17.486  | 12.6  | 85    | 0.00     |
| 25 M | Chloroform                  | 20.000  | 17.747  | 11.3  | 87    | 0.00     |
| 26   | Cyclohexane                 | 20.000  | 17.439  | 12.8  | 83    | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 30.000  | 31.393  | -4.6  | 101   | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 30.000  | 30.000  | 0.0   | 94    | 0.00     |
| 29   | 1,1-Dichloropropene         | 20.000  | 17.962  | 10.2  | 87    | 0.00     |
| 30 M | 2-Butanone                  | 100.000 | 89.786  | 10.2  | 85    | -0.01    |
| 31   | 2,2-Dichloropropane         | 20.000  | 18.334  | 8.3   | 87    | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 20.000  | 18.239  | 8.8   | 86    | 0.00     |
| 33 M | Carbon Tetrachloride        | 20.000  | 17.672  | 11.6  | 84    | 0.00     |
| 34 M | Benzene                     | 20.000  | 17.882  | 10.6  | 86    | 0.00     |
| 35   | Methacrylonitrile           | 20.000  | 16.643  | 16.8  | 79    | 0.00     |
| 36 M | 1,2-Dichloroethane          | 20.000  | 18.531  | 7.3   | 88    | 0.00     |
| 37 M | Trichloroethene             | 20.000  | 16.902  | 15.5  | 81    | 0.00     |
| 38   | Methylcyclohexane           | 20.000  | 17.044  | 14.8  | 82    | 0.00     |
| 39 M | 1,2-Dichloropropane         | 20.000  | 17.791  | 11.0  | 86    | 0.00     |
| 40   | Dibromomethane              | 20.000  | 18.115  | 9.4   | 86    | 0.00     |
| 41 M | Bromodichloromethane        | 20.000  | 17.860  | 10.7  | 87    | 0.00     |
| 42 M | Vinyl Acetate               | 100.000 | 92.397  | 7.6   | 94    | 0.00     |
| 43   | Ethyl Acetate               | 20.000  | 18.273  | 8.6   | 86    | -0.01    |
| 44   | Isopropyl Acetate           | 20.000  | 17.358  | 13.2  | 83    | 0.00     |
| 45 T | 1,4-Dioxane                 | 400.000 | 299.765 | 25.1# | 66    | 0.00     |
| 46   | Methyl methacrylate         | 20.000  | 18.908  | 5.5   | 102   | 0.00     |
| 47   | n-amyl Acetate              | 20.000  | 20.365  | -1.8  | 99    | 0.02     |
| 48 M | t-1,3-Dichloropropene       | 20.000  | 17.526  | 12.4  | 86    | 0.00     |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC020

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 QLast Update : Thu Oct 09 02:36:32 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  | 17.833 | 10.8 | 86    | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 20.000  | 17.333 | 13.3 | 83    | 0.00     |
| 51   | Ethyl methacrylate          | 20.000  | 17.140 | 14.3 | 85    | 0.00     |
| 52   | 1,3-Dichloropropane         | 20.000  | 18.069 | 9.7  | 87    | 0.00     |
| 53 M | Dibromochloromethane        | 20.000  | 17.666 | 11.7 | 86    | 0.00     |
| 54 M | 1,2-Dibromoethane           | 20.000  | 17.184 | 14.1 | 83    | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 100.000 | 88.807 | 11.2 | 83    | 0.00     |
| 56 M | Bromoform                   | 20.000  | 16.246 | 18.8 | 81    | 0.00     |
| 57 I | Chlorobenzene-d5            | 30.000  | 30.000 | 0.0  | 96    | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 100.000 | 86.980 | 13.0 | 83    | 0.00     |
| 59 M | 2-Hexanone                  | 100.000 | 89.713 | 10.3 | 87    | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 30.000  | 29.905 | 0.3  | 95    | 0.00     |
| 61 M | Tetrachloroethene           | 20.000  | 16.745 | 16.3 | 79    | 0.00     |
| 62 M | Toluene                     | 20.000  | 17.595 | 12.0 | 84    | 0.00     |
| 63 S | Toluene-d8                  | 30.000  | 30.523 | -1.7 | 97    | 0.00     |
| 64 M | Chlorobenzene               | 20.000  | 17.379 | 13.1 | 83    | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 20.000  | 17.603 | 12.0 | 82    | 0.00     |
| 66 M | Ethyl Benzene               | 20.000  | 17.649 | 11.8 | 85    | 0.00     |
| 67 M | m/p-Xylenes                 | 40.000  | 35.077 | 12.3 | 84    | 0.00     |
| 68 M | o-Xylene                    | 20.000  | 17.081 | 14.6 | 82    | 0.00     |
| 69 M | Styrene                     | 20.000  | 17.352 | 13.2 | 86    | 0.00     |
| 70   | Isopropylbenzene            | 20.000  | 17.376 | 13.1 | 84    | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 20.000  | 17.452 | 12.7 | 84    | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 20.000  | 17.917 | 10.4 | 91    | 0.00     |
| 73   | Bromobenzene                | 20.000  | 16.773 | 16.1 | 80    | 0.00     |
| 74   | n-propylbenzene             | 20.000  | 17.581 | 12.1 | 85    | 0.00     |
| 75   | 2-Chlorotoluene             | 20.000  | 17.646 | 11.8 | 85    | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 20.000  | 17.481 | 12.6 | 84    | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 20.000  | 15.998 | 20.0 | 85    | 0.00     |
| 78   | 4-Chlorotoluene             | 20.000  | 17.851 | 10.7 | 86    | 0.00     |
| 79   | tert-butylbenzene           | 20.000  | 17.735 | 11.3 | 84    | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 20.000  | 17.478 | 12.6 | 84    | 0.00     |
| 81   | sec-Butylbenzene            | 20.000  | 17.713 | 11.4 | 85    | 0.00     |
| 82   | p-Isopropyltoluene          | 20.000  | 17.630 | 11.9 | 84    | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 20.000  | 17.105 | 14.5 | 81    | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 20.000  | 16.843 | 15.8 | 80    | 0.00     |
| 85   | n-Butylbenzene              | 20.000  | 17.722 | 11.4 | 85    | 0.00     |
| 86 T | Hexachloroethane            | 20.000  | 17.608 | 12.0 | 86    | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 20.000  | 17.185 | 14.1 | 82    | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 20.000  | 17.276 | 13.6 | 80    | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 20.000  | 15.928 | 20.4 | 76    | 0.00     |
| 90   | Hexachlorobutadiene         | 20.000  | 15.955 | 20.2 | 78    | 0.00     |
| 91 M | Naphthalene                 | 20.000  | 16.169 | 19.2 | 78    | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 20.000  | 15.928 | 20.4 | 76    | 0.00     |

(#) = Out of Range

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