

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN102023\  
 Data File : VN079619.D  
 Acq On : 20 Oct 2023 10:54  
 Operator : JC\MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC020

Quant Time: Oct 20 23:45:48 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N101723W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Oct 18 02:19:15 2023  
 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    | -0.01    |
| 2 M  | Dichlorodifluoromethane     | 20.000  | 19.400  | 3.0   | 90    | 0.00     |
| 3 M  | Chloromethane               | 20.000  | 19.683  | 1.6   | 92    | 0.00     |
| 4 M  | Vinyl Chloride              | 20.000  | 19.674  | 1.6   | 92    | 0.00     |
| 5 M  | Bromomethane                | 20.000  | 17.728  | 11.4  | 84    | 0.00     |
| 6 M  | Chloroethane                | 20.000  | 20.591  | -3.0  | 97    | 0.00     |
| 7 M  | Trichlorofluoromethane      | 20.000  | 20.068  | -0.3  | 94    | 0.00     |
| 8 T  | Diethyl Ether               | 20.000  | 19.150  | 4.3   | 89    | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 20.000  | 20.193  | -1.0  | 96    | -0.01    |
| 10 M | 1,1-Dichloroethene          | 20.000  | 19.479  | 2.6   | 91    | 0.00     |
| 11   | Methyl Iodide               | 20.000  | 19.257  | 3.7   | 92    | 0.00     |
| 12   | Methyl Acetate              | 20.000  | 20.115  | -0.6  | 95    | 0.00     |
| 13 M | Acrolein                    | 100.000 | 98.453  | 1.5   | 93    | 0.00     |
| 14 M | Acrylonitrile               | 100.000 | 100.833 | -0.8  | 95    | 0.00     |
| 15 M | Acetone                     | 100.000 | 102.369 | -2.4  | 95    | 0.00     |
| 16 M | Carbon Disulfide            | 20.000  | 18.672  | 6.6   | 89    | 0.00     |
| 17   | Allyl chloride              | 20.000  | 18.079  | 9.6   | 81    | 0.00     |
| 18 M | Methylene Chloride          | 20.000  | 20.906  | -4.5  | 98    | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 20.000  | 20.195  | -1.0  | 97    | 0.00     |
| 20 T | Diisopropyl ether           | 20.000  | 20.579  | -2.9  | 93    | -0.01    |
| 21 M | 1,1-Dichloroethane          | 20.000  | 20.745  | -3.7  | 96    | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 20.000  | 19.716  | 1.4   | 92    | 0.00     |
| 23 M | tert-Butyl Alcohol          | 100.000 | 86.333  | 13.7  | 82    | 0.00     |
| 24 M | Methyl tert-Butyl Ether     | 20.000  | 19.524  | 2.4   | 91    | 0.00     |
| 25 M | Chloroform                  | 20.000  | 21.170  | -5.9  | 99    | 0.00     |
| 26   | Cyclohexane                 | 20.000  | 18.566  | 7.2   | 86    | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 30.000  | 30.001  | -0.0  | 93    | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 30.000  | 30.000  | 0.0   | 84    | 0.00     |
| 29   | 1,1-Dichloropropene         | 20.000  | 21.254  | -6.3  | 91    | 0.00     |
| 30 M | 2-Butanone                  | 100.000 | 107.445 | -7.4  | 91    | 0.00     |
| 31   | 2,2-Dichloropropane         | 20.000  | 20.415  | -2.1  | 89    | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 20.000  | 21.367  | -6.8  | 92    | 0.00     |
| 33 M | Carbon Tetrachloride        | 20.000  | 22.015  | -10.1 | 94    | 0.00     |
| 34 M | Benzene                     | 20.000  | 21.880  | -9.4  | 95    | 0.00     |
| 35   | Methacrylonitrile           | 20.000  | 21.667  | -8.3  | 92    | 0.00     |
| 36 M | 1,2-Dichloroethane          | 20.000  | 22.104  | -10.5 | 95    | 0.00     |
| 37 M | Trichloroethene             | 20.000  | 20.956  | -4.8  | 93    | 0.00     |
| 38   | Methylcyclohexane           | 20.000  | 19.390  | 3.0   | 84    | 0.00     |
| 39 M | 1,2-Dichloropropane         | 20.000  | 22.213  | -11.1 | 96    | 0.00     |
| 40   | Dibromomethane              | 20.000  | 23.025  | -15.1 | 101   | 0.00     |
| 41 M | Bromodichloromethane        | 20.000  | 22.408  | -12.0 | 97    | 0.00     |
| 42 M | Vinyl Acetate               | 100.000 | 103.196 | -3.2  | 88    | 0.00     |
| 43   | Ethyl Acetate               | 20.000  | 23.214  | -16.1 | 101   | 0.00     |
| 44   | Isopropyl Acetate           | 20.000  | 20.711  | -3.6  | 93    | 0.00     |
| 45 T | 1,4-Dioxane                 | 400.000 | 412.714 | -3.2  | 86    | 0.00     |
| 46   | Methyl methacrylate         | 20.000  | 20.829  | -4.1  | 88    | 0.00     |
| 47   | n-amyl Acetate              | 20.000  | 20.182  | -0.9  | 85    | 0.00     |
| 48 M | t-1,3-Dichloropropene       | 20.000  | 20.751  | -3.8  | 89    | 0.00     |

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 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC020

Quant Time: Oct 20 23:45:48 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N101723W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Oct 18 02:19:15 2023  
 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  | 21.158  | -5.8  | 91    | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 20.000  | 23.148  | -15.7 | 101   | 0.00     |
| 51   | Ethyl methacrylate          | 20.000  | 21.171  | -5.9  | 89    | 0.00     |
| 52   | 1,3-Dichloropropane         | 20.000  | 22.309  | -11.5 | 97    | 0.00     |
| 53 M | Dibromochloromethane        | 20.000  | 22.833  | -14.2 | 97    | 0.00     |
| 54 M | 1,2-Dibromoethane           | 20.000  | 21.628  | -8.1  | 94    | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 100.000 | 95.450  | 4.5   | 86    | 0.00     |
| 56 M | Bromoform                   | 20.000  | 21.992  | -10.0 | 94    | 0.00     |
| 57 I | Chlorobenzene-d5            | 30.000  | 30.000  | 0.0   | 86    | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 100.000 | 109.866 | -9.9  | 93    | 0.00     |
| 59 M | 2-Hexanone                  | 100.000 | 106.450 | -6.5  | 90    | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 30.000  | 31.585  | -5.3  | 89    | 0.00     |
| 61 M | Tetrachloroethene           | 20.000  | 21.538  | -7.7  | 92    | 0.00     |
| 62 M | Toluene                     | 20.000  | 21.631  | -8.2  | 94    | 0.00     |
| 63 S | Toluene-d8                  | 30.000  | 31.065  | -3.6  | 88    | 0.00     |
| 64 M | Chlorobenzene               | 20.000  | 21.093  | -5.5  | 93    | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 20.000  | 21.508  | -7.5  | 94    | 0.00     |
| 66 M | Ethyl Benzene               | 20.000  | 20.623  | -3.1  | 89    | 0.00     |
| 67 M | m/p-Xylenes                 | 40.000  | 43.181  | -8.0  | 92    | 0.00     |
| 68 M | o-Xylene                    | 20.000  | 21.073  | -5.4  | 92    | 0.00     |
| 69 M | Styrene                     | 20.000  | 22.073  | -10.4 | 93    | 0.00     |
| 70   | Isopropylbenzene            | 20.000  | 20.808  | -4.0  | 89    | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 20.000  | 22.295  | -11.5 | 97    | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 20.000  | 21.959  | -9.8  | 96    | 0.00     |
| 73   | Bromobenzene                | 20.000  | 21.519  | -7.6  | 91    | 0.00     |
| 74   | n-propylbenzene             | 20.000  | 21.083  | -5.4  | 90    | 0.00     |
| 75   | 2-Chlorotoluene             | 20.000  | 21.159  | -5.8  | 91    | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 20.000  | 21.317  | -6.6  | 91    | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 20.000  | 20.527  | -2.6  | 87    | 0.00     |
| 78   | 4-Chlorotoluene             | 20.000  | 21.228  | -6.1  | 90    | 0.00     |
| 79   | tert-butylbenzene           | 20.000  | 20.778  | -3.9  | 91    | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 20.000  | 21.577  | -7.9  | 92    | 0.00     |
| 81   | sec-Butylbenzene            | 20.000  | 21.289  | -6.4  | 92    | 0.00     |
| 82   | p-Isopropyltoluene          | 20.000  | 20.536  | -2.7  | 88    | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 20.000  | 21.767  | -8.8  | 93    | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 20.000  | 21.102  | -5.5  | 91    | 0.00     |
| 85   | n-Butylbenzene              | 20.000  | 19.012  | 4.9   | 82    | 0.00     |
| 86 T | Hexachloroethane            | 20.000  | 21.337  | -6.7  | 95    | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 20.000  | 21.715  | -8.6  | 90    | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 20.000  | 21.654  | -8.3  | 89    | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 20.000  | 16.992  | 15.0  | 71    | 0.00     |
| 90   | Hexachlorobutadiene         | 20.000  | 20.450  | -2.2  | 88    | 0.00     |
| 91 M | Naphthalene                 | 20.000  | 13.688  | 31.6# | 59    | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 20.000  | 16.992  | 15.0  | 71    | 0.00     |

(#) = Out of Range

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