

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN102822\  
 Data File : VN075075.D  
 Acq On : 28 Oct 2022 21:00  
 Operator : JC\MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC020

Quant Time: Oct 31 01:51:23 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N102522W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu Oct 27 10:19:47 2022  
 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   | 89    | 0.00     |
| 2 M  | Dichlorodifluoromethane     | 20.000  | 22.685  | -13.4 | 95    | 0.00     |
| 3 M  | Chloromethane               | 20.000  | 21.547  | -7.7  | 81    | 0.00     |
| 4 M  | Vinyl Chloride              | 20.000  | 21.467  | -7.3  | 89    | 0.00     |
| 5 M  | Bromomethane                | 20.000  | 21.932  | -9.7  | 88    | -0.04    |
| 6 M  | Chloroethane                | 20.000  | 21.043  | -5.2  | 85    | -0.04    |
| 7 M  | Trichlorofluoromethane      | 20.000  | 23.657  | -18.3 | 99    | -0.02    |
| 8 T  | Diethyl Ether               | 20.000  | 22.897  | -14.5 | 97    | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 20.000  | 23.134  | -15.7 | 97    | -0.02    |
| 10 M | 1,1-Dichloroethene          | 20.000  | 22.581  | -12.9 | 101   | -0.02    |
| 11   | Methyl Iodide               | 20.000  | 22.988  | -14.9 | 98    | -0.01    |
| 12   | Methyl Acetate              | 20.000  | 23.087  | -15.4 | 100   | 0.00     |
| 13 M | Acrolein                    | 100.000 | 117.865 | -17.9 | 95    | -0.01    |
| 14 M | Acrylonitrile               | 100.000 | 109.883 | -9.9  | 95    | 0.00     |
| 15 M | Acetone                     | 100.000 | 115.671 | -15.7 | 99    | 0.00     |
| 16 M | Carbon Disulfide            | 20.000  | 21.558  | -7.8  | 94    | 0.00     |
| 17   | Allyl chloride              | 20.000  | 22.372  | -11.9 | 93    | -0.01    |
| 18 M | Methylene Chloride          | 20.000  | 23.183  | -15.9 | 99    | -0.01    |
| 19 M | trans-1,2-Dichloroethene    | 20.000  | 22.071  | -10.4 | 98    | 0.00     |
| 20 T | Diisopropyl ether           | 20.000  | 22.276  | -11.4 | 96    | 0.00     |
| 21 M | 1,1-Dichloroethane          | 20.000  | 22.911  | -14.6 | 100   | -0.01    |
| 22 M | cis-1,2-Dichloroethene      | 20.000  | 22.081  | -10.4 | 96    | 0.00     |
| 23 M | tert-Butyl Alcohol          | 100.000 | 104.984 | -5.0  | 95    | 0.02     |
| 24 M | Methyl tert-Butyl Ether     | 20.000  | 22.913  | -14.6 | 101   | 0.00     |
| 25 M | Chloroform                  | 20.000  | 22.314  | -11.6 | 99    | 0.00     |
| 26   | Cyclohexane                 | 20.000  | 21.588  | -7.9  | 97    | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 30.000  | 33.327  | -11.1 | 95    | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 30.000  | 30.000  | 0.0   | 96    | 0.00     |
| 29   | 1,1-Dichloropropene         | 20.000  | 20.184  | -0.9  | 97    | 0.00     |
| 30 M | 2-Butanone                  | 100.000 | 98.251  | 1.7   | 91    | 0.00     |
| 31   | 2,2-Dichloropropane         | 20.000  | 17.457  | 12.7  | 84    | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 20.000  | 20.194  | -1.0  | 95    | 0.00     |
| 33 M | Carbon Tetrachloride        | 20.000  | 19.239  | 3.8   | 94    | 0.00     |
| 34 M | Benzene                     | 20.000  | 20.966  | -4.8  | 100   | 0.00     |
| 35   | Methacrylonitrile           | 20.000  | 20.374  | -1.9  | 100   | 0.00     |
| 36 M | 1,2-Dichloroethane          | 20.000  | 20.797  | -4.0  | 98    | 0.00     |
| 37 M | Trichloroethene             | 20.000  | 20.997  | -5.0  | 103   | 0.00     |
| 38   | Methylcyclohexane           | 20.000  | 18.806  | 6.0   | 92    | 0.00     |
| 39 M | 1,2-Dichloropropane         | 20.000  | 21.026  | -5.1  | 99    | 0.00     |
| 40   | Dibromomethane              | 20.000  | 19.822  | 0.9   | 99    | 0.00     |
| 41 M | Bromodichloromethane        | 20.000  | 20.445  | -2.2  | 99    | 0.00     |
| 42 M | Vinyl Acetate               | 100.000 | 113.544 | -13.5 | 107   | 0.00     |
| 43   | Ethyl Acetate               | 20.000  | 20.890  | -4.5  | 101   | 0.00     |
| 44   | Isopropyl Acetate           | 20.000  | 19.629  | 1.9   | 94    | 0.00     |
| 45 T | 1,4-Dioxane                 | 400.000 | 387.984 | 3.0   | 97    | 0.00     |
| 46   | Methyl methacrylate         | 20.000  | 19.652  | 1.7   | 89    | 0.00     |
| 47   | n-amyl Acetate              | 20.000  | 20.461  | -2.3  | 100   | 0.00     |
| 48 M | t-1,3-Dichloropropene       | 20.000  | 18.585  | 7.1   | 95    | 0.00     |

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 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC020

Quant Time: Oct 31 01:51:23 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N102522W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu Oct 27 10:19:47 2022  
 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  | 19.412  | 2.9  | 95    | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 20.000  | 20.598  | -3.0 | 102   | 0.00     |
| 51   | Ethyl methacrylate          | 20.000  | 19.412  | 2.9  | 96    | 0.00     |
| 52   | 1,3-Dichloropropane         | 20.000  | 19.715  | 1.4  | 94    | 0.00     |
| 53 M | Dibromochloromethane        | 20.000  | 18.734  | 6.3  | 98    | 0.00     |
| 54 M | 1,2-Dibromoethane           | 20.000  | 19.572  | 2.1  | 97    | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 100.000 | 103.929 | -3.9 | 102   | 0.00     |
| 56 M | Bromoform                   | 20.000  | 17.219  | 13.9 | 96    | 0.00     |
| 57 I | Chlorobenzene-d5            | 30.000  | 30.000  | 0.0  | 93    | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 100.000 | 105.116 | -5.1 | 94    | 0.00     |
| 59 M | 2-Hexanone                  | 100.000 | 104.162 | -4.2 | 92    | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 30.000  | 28.156  | 6.1  | 93    | 0.00     |
| 61 M | Tetrachloroethene           | 20.000  | 20.518  | -2.6 | 96    | 0.00     |
| 62 M | Toluene                     | 20.000  | 20.555  | -2.8 | 96    | 0.00     |
| 63 S | Toluene-d8                  | 30.000  | 30.013  | -0.0 | 93    | 0.00     |
| 64 M | Chlorobenzene               | 20.000  | 19.805  | 1.0  | 96    | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 20.000  | 20.531  | -2.7 | 95    | 0.00     |
| 66 M | Ethyl Benzene               | 20.000  | 20.050  | -0.3 | 95    | 0.00     |
| 67 M | m/p-Xylenes                 | 40.000  | 39.481  | 1.3  | 95    | 0.00     |
| 68 M | o-Xylene                    | 20.000  | 19.926  | 0.4  | 95    | 0.00     |
| 69 M | Styrene                     | 20.000  | 19.174  | 4.1  | 95    | 0.00     |
| 70   | Isopropylbenzene            | 20.000  | 19.944  | 0.3  | 97    | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 20.000  | 20.910  | -4.6 | 96    | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 20.000  | 20.148  | -0.7 | 92    | 0.00     |
| 73   | Bromobenzene                | 20.000  | 19.450  | 2.8  | 96    | 0.00     |
| 74   | n-propylbenzene             | 20.000  | 19.643  | 1.8  | 96    | 0.00     |
| 75   | 2-Chlorotoluene             | 20.000  | 20.460  | -2.3 | 99    | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 20.000  | 19.865  | 0.7  | 97    | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 20.000  | 18.429  | 7.9  | 91    | 0.00     |
| 78   | 4-Chlorotoluene             | 20.000  | 19.954  | 0.2  | 100   | 0.00     |
| 79   | tert-butylbenzene           | 20.000  | 19.334  | 3.3  | 95    | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 20.000  | 19.601  | 2.0  | 96    | 0.00     |
| 81   | sec-Butylbenzene            | 20.000  | 19.510  | 2.4  | 97    | 0.00     |
| 82   | p-Isopropyltoluene          | 20.000  | 18.816  | 5.9  | 95    | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 20.000  | 18.400  | 8.0  | 95    | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 20.000  | 19.077  | 4.6  | 101   | 0.00     |
| 85   | n-Butylbenzene              | 20.000  | 18.647  | 6.8  | 98    | 0.00     |
| 86 T | Hexachloroethane            | 20.000  | 17.803  | 11.0 | 86    | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 20.000  | 19.190  | 4.0  | 97    | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 20.000  | 19.252  | 3.7  | 86    | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 20.000  | 18.718  | 6.4  | 102   | 0.00     |
| 90   | Hexachlorobutadiene         | 20.000  | 19.422  | 2.9  | 100   | 0.00     |
| 91 M | Naphthalene                 | 20.000  | 18.604  | 7.0  | 99    | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 20.000  | 18.845  | 5.8  | 101   | 0.00     |

(#) = Out of Range

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