

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN112621\  
 Data File : VN069656.D  
 Acq On : 26 Nov 2021 14:01  
 Operator : JC/MD  
 Sample : VSTDCCC020  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC020

Quant Time: Nov 29 00:17:52 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N111021W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Nov 10 14:36:17 2021  
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                    | Amount  | Calc.   | %Dev  | Area% | Dev(min) |
|------|-----------------------------|---------|---------|-------|-------|----------|
| 1 I  | Bromochloromethane          | 30.000  | 30.000  | 0.0   | 112   | 0.00     |
| 2 M  | Dichlorodifluoromethane     | 20.000  | 22.206  | -11.0 | 108   | 0.00     |
| 3 M  | Chloromethane               | 20.000  | 22.972  | -14.9 | 115   | 0.00     |
| 4 M  | Vinyl Chloride              | 20.000  | 21.624  | -8.1  | 108   | 0.00     |
| 5 M  | Bromomethane                | 20.000  | 19.279  | 3.6   | 96    | 0.00     |
| 6 M  | Chloroethane                | 20.000  | 20.620  | -3.1  | 101   | 0.00     |
| 7 M  | Trichlorofluoromethane      | 20.000  | 19.366  | 3.2   | 94    | 0.00     |
| 8 T  | Diethyl Ether               | 20.000  | 22.843  | -14.2 | 118   | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 20.000  | 22.692  | -13.5 | 114   | -0.01    |
| 10 M | 1,1-Dichloroethene          | 20.000  | 21.915  | -9.6  | 112   | -0.01    |
| 11   | Methyl Iodide               | 20.000  | 22.038  | -10.2 | 120   | 0.00     |
| 12   | Methyl Acetate              | 20.000  | 23.204  | -16.0 | 119   | 0.00     |
| 13 M | Acrolein                    | 100.000 | 115.554 | -15.6 | 134   | 0.00     |
| 14 M | Acrylonitrile               | 100.000 | 113.876 | -13.9 | 124   | 0.00     |
| 15 M | Acetone                     | 100.000 | 97.115  | 2.9   | 87    | 0.00     |
| 16 M | Carbon Disulfide            | 20.000  | 20.502  | -2.5  | 111   | 0.00     |
| 17   | Allyl chloride              | 20.000  | 22.884  | -14.4 | 122   | 0.00     |
| 18 M | Methylene Chloride          | 20.000  | 22.160  | -10.8 | 116   | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 20.000  | 21.807  | -9.0  | 115   | 0.00     |
| 20 T | Diisopropyl ether           | 20.000  | 22.437  | -12.2 | 119   | 0.00     |
| 21 M | 1,1-Dichloroethane          | 20.000  | 22.587  | -12.9 | 118   | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 20.000  | 21.652  | -8.3  | 114   | 0.00     |
| 23 M | tert-Butyl Alcohol          | 100.000 | 101.348 | -1.3  | 114   | 0.01     |
| 24 M | Methyl tert-Butyl Ether     | 20.000  | 22.239  | -11.2 | 117   | 0.00     |
| 25 M | Chloroform                  | 20.000  | 22.127  | -10.6 | 115   | 0.00     |
| 26   | Cyclohexane                 | 20.000  | 22.115  | -10.6 | 115   | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 30.000  | 31.943  | -6.5  | 113   | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 30.000  | 30.000  | 0.0   | 109   | 0.00     |
| 29   | 1,1-Dichloropropene         | 20.000  | 21.696  | -8.5  | 112   | 0.00     |
| 30 M | 2-Butanone                  | 100.000 | 107.521 | -7.5  | 110   | 0.00     |
| 31   | 2,2-Dichloropropane         | 20.000  | 21.102  | -5.5  | 115   | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 20.000  | 21.857  | -9.3  | 117   | 0.00     |
| 33 M | Carbon Tetrachloride        | 20.000  | 21.635  | -8.2  | 116   | 0.00     |
| 34 M | Benzene                     | 20.000  | 21.672  | -8.4  | 113   | 0.00     |
| 35   | Methacrylonitrile           | 20.000  | 22.202  | -11.0 | 123   | 0.00     |
| 36 M | 1,2-Dichloroethane          | 20.000  | 22.930  | -14.6 | 118   | 0.00     |
| 37 M | Trichloroethene             | 20.000  | 21.019  | -5.1  | 113   | 0.00     |
| 38   | Methylcyclohexane           | 20.000  | 20.915  | -4.6  | 111   | 0.00     |
| 39 M | 1,2-Dichloropropane         | 20.000  | 22.054  | -10.3 | 116   | 0.00     |
| 40   | Dibromomethane              | 20.000  | 21.607  | -8.0  | 115   | 0.00     |
| 41 M | Bromodichloromethane        | 20.000  | 21.635  | -8.2  | 120   | 0.00     |
| 42 M | Vinyl Acetate               | 100.000 | 110.438 | -10.4 | 119   | 0.00     |
| 43   | Ethyl Acetate               | 20.000  | 22.766  | -13.8 | 127   | 0.00     |
| 44   | Isopropyl Acetate           | 20.000  | 21.993  | -10.0 | 119   | 0.00     |
| 45 T | 1,4-Dioxane                 | 400.000 | 403.127 | -0.8  | 111   | 0.00     |
| 46   | Methyl methacrylate         | 20.000  | 21.973  | -9.9  | 121   | 0.00     |
| 47   | n-amyl Acetate              | 20.000  | 17.792  | 11.0  | 107   | 0.00     |
| 48 M | t-1,3-Dichloropropene       | 20.000  | 20.308  | -1.5  | 117   | 0.00     |

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 Sample : VSTDCCC020  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC020

Quant Time: Nov 29 00:17:52 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N111021W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Nov 10 14:36:17 2021  
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                    | Amount  | Calc.   | %Dev    | Area% | Dev(min) |
|------|-----------------------------|---------|---------|---------|-------|----------|
| 49 T | cis-1,3-Dichloropropene     | 20.000  | 21.064  | -5.3    | 118   | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 20.000  | 21.570  | -7.9    | 117   | 0.00     |
| 51   | Ethyl methacrylate          | 20.000  | 20.623  | -3.1    | 118   | 0.00     |
| 52   | 1,3-Dichloropropane         | 20.000  | 21.978  | -9.9    | 117   | 0.00     |
| 53 M | Dibromochloromethane        | 20.000  | 20.165  | -0.8    | 118   | 0.00     |
| 54 M | 1,2-Dibromoethane           | 20.000  | 20.876  | -4.4    | 114   | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 100.000 | 214.923 | -114.9# | 272   | 0.00     |
| 56 M | Bromoform                   | 20.000  | 19.594  | 2.0     | 123   | 0.00     |
| 57 I | Chlorobenzene-d5            | 30.000  | 30.000  | 0.0     | 107   | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 100.000 | 117.065 | -17.1   | 121   | 0.00     |
| 59 M | 2-Hexanone                  | 100.000 | 109.101 | -9.1    | 113   | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 30.000  | 29.711  | 1.0     | 108   | 0.00     |
| 61 M | Tetrachloroethene           | 20.000  | 23.105  | -15.5   | 117   | 0.00     |
| 62 M | Toluene                     | 20.000  | 21.711  | -8.6    | 109   | 0.00     |
| 63 S | Toluene-d8                  | 30.000  | 30.623  | -2.1    | 107   | 0.00     |
| 64 M | Chlorobenzene               | 20.000  | 21.449  | -7.2    | 111   | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 20.000  | 21.814  | -9.1    | 114   | 0.00     |
| 66 M | Ethyl Benzene               | 20.000  | 21.428  | -7.1    | 109   | 0.00     |
| 67 M | m/p-Xylenes                 | 40.000  | 42.345  | -5.9    | 108   | 0.00     |
| 68 M | o-Xylene                    | 20.000  | 20.976  | -4.9    | 107   | 0.00     |
| 69 M | Styrene                     | 20.000  | 20.359  | -1.8    | 107   | 0.00     |
| 70   | Isopropylbenzene            | 20.000  | 20.985  | -4.9    | 108   | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 20.000  | 21.363  | -6.8    | 112   | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 20.000  | 20.456  | -2.3    | 110   | 0.00     |
| 73   | Bromobenzene                | 20.000  | 20.799  | -4.0    | 111   | 0.00     |
| 74   | n-propylbenzene             | 20.000  | 20.235  | -1.2    | 105   | 0.00     |
| 75   | 2-Chlorotoluene             | 20.000  | 20.773  | -3.9    | 108   | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 20.000  | 20.692  | -3.5    | 107   | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 20.000  | 18.061  | 9.7     | 116   | 0.00     |
| 78   | 4-Chlorotoluene             | 20.000  | 20.048  | -0.2    | 107   | 0.00     |
| 79   | tert-butylbenzene           | 20.000  | 20.461  | -2.3    | 109   | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 20.000  | 20.585  | -2.9    | 106   | 0.00     |
| 81   | sec-Butylbenzene            | 20.000  | 19.864  | 0.7     | 104   | 0.00     |
| 82   | p-Isopropyltoluene          | 20.000  | 19.898  | 0.5     | 107   | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 20.000  | 20.113  | -0.6    | 108   | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 20.000  | 19.907  | 0.5     | 108   | 0.00     |
| 85   | n-Butylbenzene              | 20.000  | 18.190  | 9.0     | 104   | 0.00     |
| 86 T | Hexachloroethane            | 20.000  | 19.295  | 3.5     | 113   | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 20.000  | 20.528  | -2.6    | 108   | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 20.000  | 20.347  | -1.7    | 120   | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 20.000  | 17.884  | 10.6    | 110   | 0.00     |
| 90   | Hexachlorobutadiene         | 20.000  | 21.508  | -7.5    | 115   | 0.00     |
| 91 M | Naphthalene                 | 20.000  | 16.321  | 18.4    | 109   | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 20.000  | 18.315  | 8.4     | 112   | 0.00     |

(#) = Out of Range

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