

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN061621\  
 Data File : VN067369.D  
 Acq On : 16 Jun 2021 18:02  
 Operator : JC/MD  
 Sample : VSTDCCC020  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 17 04:22:19 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N061121W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Jun 12 09:13:15 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   | 95    | 0.00     |
| 2 M  | Dichlorodifluoromethane     | 20.000  | 18.936  | 5.3   | 97    | 0.00     |
| 3 M  | Chloromethane               | 20.000  | 18.812  | 5.9   | 97    | 0.00     |
| 4 M  | Vinyl Chloride              | 20.000  | 18.200  | 9.0   | 94    | 0.00     |
| 5 M  | Bromomethane                | 20.000  | 19.309  | 3.5   | 97    | 0.00     |
| 6 M  | Chloroethane                | 20.000  | 18.938  | 5.3   | 98    | 0.00     |
| 7 M  | Trichlorofluoromethane      | 20.000  | 18.722  | 6.4   | 97    | 0.00     |
| 8 T  | Diethyl Ether               | 20.000  | 18.837  | 5.8   | 96    | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 20.000  | 19.015  | 4.9   | 98    | 0.00     |
| 10 M | 1,1-Dichloroethene          | 20.000  | 18.770  | 6.2   | 95    | 0.00     |
| 11   | Methyl Iodide               | 20.000  | 15.982  | 20.1  | 88    | 0.00     |
| 12   | Methyl Acetate              | 20.000  | 19.289  | 3.6   | 100   | 0.00     |
| 13 M | Acrolein                    | 100.000 | 101.523 | -1.5  | 104   | 0.00     |
| 14 M | Acrylonitrile               | 100.000 | 95.864  | 4.1   | 100   | 0.00     |
| 15 M | Acetone                     | 100.000 | 101.761 | -1.8  | 106   | 0.00     |
| 16 M | Carbon Disulfide            | 20.000  | 18.919  | 5.4   | 98    | 0.00     |
| 17   | Allyl chloride              | 20.000  | 18.552  | 7.2   | 97    | 0.00     |
| 18 M | Methylene Chloride          | 20.000  | 19.400  | 3.0   | 101   | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 20.000  | 18.910  | 5.4   | 97    | 0.00     |
| 20 T | Diisopropyl ether           | 20.000  | 19.148  | 4.3   | 99    | 0.00     |
| 21 M | 1,1-Dichloroethane          | 20.000  | 19.172  | 4.1   | 98    | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 20.000  | 19.083  | 4.6   | 97    | 0.00     |
| 23 M | tert-Butyl Alcohol          | 100.000 | 88.042  | 12.0  | 96    | 0.00     |
| 24 M | Methyl tert-Butyl Ether     | 20.000  | 18.671  | 6.6   | 96    | 0.00     |
| 25 M | Chloroform                  | 20.000  | 18.945  | 5.3   | 98    | 0.00     |
| 26   | Cyclohexane                 | 20.000  | 19.593  | 2.0   | 102   | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 30.000  | 30.562  | -1.9  | 94    | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 30.000  | 30.000  | 0.0   | 95    | 0.00     |
| 29   | 1,1-Dichloropropene         | 20.000  | 18.870  | 5.6   | 100   | 0.00     |
| 30 M | 2-Butanone                  | 100.000 | 92.011  | 8.0   | 99    | 0.00     |
| 31   | 2,2-Dichloropropane         | 20.000  | 22.054  | -10.3 | 114   | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 20.000  | 17.435  | 12.8  | 89    | 0.00     |
| 33 M | Carbon Tetrachloride        | 20.000  | 16.846  | 15.8  | 88    | 0.00     |
| 34 M | Benzene                     | 20.000  | 18.958  | 5.2   | 98    | 0.00     |
| 35   | Methacrylonitrile           | 20.000  | 18.649  | 6.8   | 98    | 0.00     |
| 36 M | 1,2-Dichloroethane          | 20.000  | 18.726  | 6.4   | 101   | 0.00     |
| 37 M | Trichloroethene             | 20.000  | 17.799  | 11.0  | 92    | 0.00     |
| 38   | Methylcyclohexane           | 20.000  | 20.840  | -4.2  | 111   | 0.00     |
| 39 M | 1,2-Dichloropropane         | 20.000  | 19.047  | 4.8   | 100   | 0.00     |
| 40   | Dibromomethane              | 20.000  | 18.085  | 9.6   | 95    | 0.00     |
| 41 M | Bromodichloromethane        | 20.000  | 17.819  | 10.9  | 93    | 0.00     |
| 42 M | Vinyl Acetate               | 100.000 | 91.378  | 8.6   | 96    | 0.00     |
| 43   | Ethyl Acetate               | 20.000  | 18.674  | 6.6   | 97    | 0.00     |
| 44   | Isopropyl Acetate           | 20.000  | 18.104  | 9.5   | 96    | 0.00     |
| 45 T | 1,4-Dioxane                 | 400.000 | 352.124 | 12.0  | 92    | 0.00     |
| 46   | Methyl methacrylate         | 20.000  | 17.257  | 13.7  | 94    | 0.00     |
| 47   | n-amyl Acetate              | 20.000  | 16.446  | 17.8  | 92    | 0.00     |
| 48 M | t-1,3-Dichloropropene       | 20.000  | 18.023  | 9.9   | 96    | 0.00     |

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 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 17 04:22:19 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N061121W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Jun 12 09:13:15 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  | 18.959 | 5.2  | 102   | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 20.000  | 18.584 | 7.1  | 98    | 0.00     |
| 51   | Ethyl methacrylate          | 20.000  | 17.730 | 11.3 | 95    | 0.00     |
| 52   | 1,3-Dichloropropane         | 20.000  | 18.920 | 5.4  | 100   | 0.00     |
| 53 M | Dibromochloromethane        | 20.000  | 16.880 | 15.6 | 91    | 0.00     |
| 54 M | 1,2-Dibromoethane           | 20.000  | 17.708 | 11.5 | 95    | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 100.000 | 89.858 | 10.1 | 104   | 0.00     |
| 56 M | Bromoform                   | 20.000  | 15.518 | 22.4 | 86    | 0.00     |
| 57 I | Chlorobenzene-d5            | 30.000  | 30.000 | 0.0  | 94    | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 100.000 | 92.344 | 7.7  | 97    | 0.00     |
| 59 M | 2-Hexanone                  | 100.000 | 90.126 | 9.9  | 96    | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 30.000  | 27.762 | 7.5  | 88    | 0.00     |
| 61 M | Tetrachloroethene           | 20.000  | 17.976 | 10.1 | 88    | 0.00     |
| 62 M | Toluene                     | 20.000  | 19.024 | 4.9  | 99    | 0.00     |
| 63 S | Toluene-d8                  | 30.000  | 31.229 | -4.1 | 97    | 0.00     |
| 64 M | Chlorobenzene               | 20.000  | 18.070 | 9.6  | 96    | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 20.000  | 17.689 | 11.6 | 92    | 0.00     |
| 66 M | Ethyl Benzene               | 20.000  | 18.566 | 7.2  | 97    | 0.00     |
| 67 M | m/p-Xylenes                 | 40.000  | 36.814 | 8.0  | 97    | 0.00     |
| 68 M | o-Xylene                    | 20.000  | 17.864 | 10.7 | 95    | 0.00     |
| 69 M | Styrene                     | 20.000  | 17.434 | 12.8 | 93    | 0.00     |
| 70   | Isopropylbenzene            | 20.000  | 18.683 | 6.6  | 99    | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 20.000  | 18.520 | 7.4  | 99    | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 20.000  | 19.149 | 4.3  | 102   | 0.00     |
| 73   | Bromobenzene                | 20.000  | 16.698 | 16.5 | 89    | 0.00     |
| 74   | n-propylbenzene             | 20.000  | 18.611 | 6.9  | 100   | 0.00     |
| 75   | 2-Chlorotoluene             | 20.000  | 17.831 | 10.8 | 95    | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 20.000  | 18.014 | 9.9  | 96    | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 20.000  | 17.833 | 10.8 | 99    | 0.00     |
| 78   | 4-Chlorotoluene             | 20.000  | 17.834 | 10.8 | 96    | 0.00     |
| 79   | tert-butylbenzene           | 20.000  | 18.080 | 9.6  | 96    | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 20.000  | 18.018 | 9.9  | 96    | 0.00     |
| 81   | sec-Butylbenzene            | 20.000  | 19.073 | 4.6  | 102   | 0.00     |
| 82   | p-Isopropyltoluene          | 20.000  | 18.548 | 7.3  | 100   | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 20.000  | 17.204 | 14.0 | 94    | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 20.000  | 17.141 | 14.3 | 93    | 0.00     |
| 85   | n-Butylbenzene              | 20.000  | 19.421 | 2.9  | 107   | 0.00     |
| 86 T | Hexachloroethane            | 20.000  | 17.353 | 13.2 | 97    | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 20.000  | 17.266 | 13.7 | 93    | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 20.000  | 15.859 | 20.7 | 84    | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 20.000  | 16.556 | 17.2 | 91    | 0.00     |
| 90   | Hexachlorobutadiene         | 20.000  | 16.787 | 16.1 | 91    | 0.00     |
| 91 M | Naphthalene                 | 20.000  | 15.653 | 21.7 | 88    | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 20.000  | 16.874 | 15.6 | 93    | 0.00     |

(#) = Out of Range

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