

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN050824\  
 Data File : VN082038.D  
 Acq On : 08 May 2024 19:37  
 Operator : JC\MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC020

Quant Time: May 09 01:06:18 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N042624W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Apr 27 04:37:27 2024  
 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    | 61    | 0.01     |
| 2 M  | Dichlorodifluoromethane     | 20.000  | 20.511  | -2.6   | 63    | 0.00     |
| 3 M  | Chloromethane               | 20.000  | 20.955  | -4.8   | 66    | 0.00     |
| 4 M  | Vinyl Chloride              | 20.000  | 22.094  | -10.5  | 70    | 0.00     |
| 5 M  | Bromomethane                | 20.000  | 18.340  | 8.3    | 56    | 0.00     |
| 6 M  | Chloroethane                | 20.000  | 25.220  | -26.1# | 76    | 0.00     |
| 7 M  | Trichlorofluoromethane      | 20.000  | 20.634  | -3.2   | 63    | 0.00     |
| 8 T  | Diethyl Ether               | 20.000  | 20.951  | -4.8   | 63    | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 20.000  | 19.326  | 3.4    | 58    | 0.00     |
| 10 M | 1,1-Dichloroethene          | 20.000  | 20.460  | -2.3   | 64    | 0.00     |
| 11   | Methyl Iodide               | 20.000  | 19.331  | 3.3    | 68    | 0.00     |
| 12   | Methyl Acetate              | 20.000  | 26.863  | -34.3# | 84    | 0.00     |
| 13 M | Acrolein                    | 100.000 | 60.317  | 39.7#  | 39    | 0.01     |
| 14 M | Acrylonitrile               | 100.000 | 120.458 | -20.5  | 74    | 0.00     |
| 15 M | Acetone                     | 100.000 | 119.094 | -19.1  | 71    | 0.00     |
| 16 M | Carbon Disulfide            | 20.000  | 17.556  | 12.2   | 56    | 0.00     |
| 17   | Allyl chloride              | 20.000  | 21.552  | -7.8   | 64    | 0.01     |
| 18 M | Methylene Chloride          | 20.000  | 21.473  | -7.4   | 68    | -0.01    |
| 19 M | trans-1,2-Dichloroethene    | 20.000  | 19.358  | 3.2    | 63    | 0.00     |
| 20 T | Diisopropyl ether           | 20.000  | 22.669  | -13.3  | 70    | 0.00     |
| 21 M | 1,1-Dichloroethane          | 20.000  | 22.578  | -12.9  | 68    | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 20.000  | 22.286  | -11.4  | 70    | 0.00     |
| 23 M | tert-Butyl Alcohol          | 100.000 | 108.384 | -8.4   | 63    | 0.02     |
| 24 M | Methyl tert-Butyl Ether     | 20.000  | 21.250  | -6.3   | 64    | 0.00     |
| 25 M | Chloroform                  | 20.000  | 22.976  | -14.9  | 70    | 0.00     |
| 26   | Cyclohexane                 | 20.000  | 20.309  | -1.5   | 64    | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 30.000  | 32.011  | -6.7   | 66    | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 30.000  | 30.000  | 0.0    | 63    | 0.00     |
| 29   | 1,1-Dichloropropene         | 20.000  | 20.015  | -0.1   | 64    | 0.00     |
| 30 M | 2-Butanone                  | 100.000 | 114.744 | -14.7  | 71    | 0.00     |
| 31   | 2,2-Dichloropropane         | 20.000  | 22.630  | -13.1  | 74    | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 20.000  | 20.471  | -2.4   | 65    | 0.00     |
| 33 M | Carbon Tetrachloride        | 20.000  | 20.302  | -1.5   | 64    | 0.00     |
| 34 M | Benzene                     | 20.000  | 21.354  | -6.8   | 67    | 0.00     |
| 35   | Methacrylonitrile           | 20.000  | 22.120  | -10.6  | 71    | 0.00     |
| 36 M | 1,2-Dichloroethane          | 20.000  | 21.647  | -8.2   | 69    | 0.00     |
| 37 M | Trichloroethene             | 20.000  | 17.117  | 14.4   | 55    | 0.00     |
| 38   | Methylcyclohexane           | 20.000  | 19.519  | 2.4    | 62    | 0.00     |
| 39 M | 1,2-Dichloropropane         | 20.000  | 22.899  | -14.5  | 75    | 0.00     |
| 40   | Dibromomethane              | 20.000  | 22.132  | -10.7  | 72    | 0.00     |
| 41 M | Bromodichloromethane        | 20.000  | 21.231  | -6.2   | 69    | 0.00     |
| 42 M | Vinyl Acetate               | 100.000 | 108.767 | -8.8   | 70    | 0.00     |
| 43   | Ethyl Acetate               | 20.000  | 19.898  | 0.5    | 65    | 0.01     |
| 44   | Isopropyl Acetate           | 20.000  | 22.614  | -13.1  | 72    | 0.00     |
| 45 T | 1,4-Dioxane                 | 400.000 | 445.386 | -11.3  | 70    | 0.00     |
| 46   | Methyl methacrylate         | 20.000  | 23.389  | -16.9  | 75    | 0.00     |
| 47   | n-amyl Acetate              | 20.000  | 21.425  | -7.1   | 69    | 0.00     |
| 48 M | t-1,3-Dichloropropene       | 20.000  | 20.246  | -1.2   | 66    | 0.00     |

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 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC020

Quant Time: May 09 01:06:18 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N042624W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Apr 27 04:37:27 2024  
 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  | 21.476  | -7.4  | 69    | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 20.000  | 22.760  | -13.8 | 72    | 0.00     |
| 51   | Ethyl methacrylate          | 20.000  | 20.860  | -4.3  | 67    | 0.00     |
| 52   | 1,3-Dichloropropane         | 20.000  | 21.789  | -8.9  | 70    | 0.00     |
| 53 M | Dibromochloromethane        | 20.000  | 19.849  | 0.8   | 66    | 0.00     |
| 54 M | 1,2-Dibromoethane           | 20.000  | 21.490  | -7.4  | 68    | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 100.000 | 104.248 | -4.2  | 66    | 0.00     |
| 56 M | Bromoform                   | 20.000  | 18.176  | 9.1   | 58    | 0.00     |
| 57 I | Chlorobenzene-d5            | 30.000  | 30.000  | 0.0   | 65    | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 100.000 | 115.012 | -15.0 | 73    | 0.00     |
| 59 M | 2-Hexanone                  | 100.000 | 115.381 | -15.4 | 73    | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 30.000  | 29.257  | 2.5   | 64    | 0.00     |
| 61 M | Tetrachloroethene           | 20.000  | 16.509  | 17.5  | 51    | 0.00     |
| 62 M | Toluene                     | 20.000  | 20.452  | -2.3  | 66    | 0.00     |
| 63 S | Toluene-d8                  | 30.000  | 30.327  | -1.1  | 65    | 0.00     |
| 64 M | Chlorobenzene               | 20.000  | 20.997  | -5.0  | 67    | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 20.000  | 19.751  | 1.2   | 63    | 0.00     |
| 66 M | Ethyl Benzene               | 20.000  | 20.847  | -4.2  | 65    | 0.00     |
| 67 M | m/p-Xylenes                 | 40.000  | 40.516  | -1.3  | 64    | 0.00     |
| 68 M | o-Xylene                    | 20.000  | 21.078  | -5.4  | 66    | 0.00     |
| 69 M | Styrene                     | 20.000  | 20.583  | -2.9  | 66    | 0.00     |
| 70   | Isopropylbenzene            | 20.000  | 20.399  | -2.0  | 64    | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 20.000  | 24.765  | -23.8 | 77    | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 20.000  | 22.103  | -10.5 | 72    | 0.00     |
| 73   | Bromobenzene                | 20.000  | 19.553  | 2.2   | 64    | 0.00     |
| 74   | n-propylbenzene             | 20.000  | 20.993  | -5.0  | 66    | 0.00     |
| 75   | 2-Chlorotoluene             | 20.000  | 20.001  | -0.0  | 64    | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 20.000  | 19.745  | 1.3   | 62    | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 20.000  | 20.026  | -0.1  | 65    | 0.00     |
| 78   | 4-Chlorotoluene             | 20.000  | 20.317  | -1.6  | 66    | 0.00     |
| 79   | tert-butylbenzene           | 20.000  | 19.958  | 0.2   | 63    | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 20.000  | 20.280  | -1.4  | 65    | 0.00     |
| 81   | sec-Butylbenzene            | 20.000  | 21.042  | -5.2  | 68    | 0.00     |
| 82   | p-Isopropyltoluene          | 20.000  | 20.166  | -0.8  | 63    | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 20.000  | 19.723  | 1.4   | 62    | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 20.000  | 19.988  | 0.1   | 64    | 0.00     |
| 85   | n-Butylbenzene              | 20.000  | 20.538  | -2.7  | 67    | 0.00     |
| 86 T | Hexachloroethane            | 20.000  | 19.767  | 1.2   | 63    | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 20.000  | 20.064  | -0.3  | 64    | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 20.000  | 20.765  | -3.8  | 63    | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 20.000  | 18.532  | 7.3   | 61    | 0.00     |
| 90   | Hexachlorobutadiene         | 20.000  | 15.687  | 21.6  | 53    | 0.00     |
| 91 M | Naphthalene                 | 20.000  | 19.025  | 4.9   | 61    | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 20.000  | 18.532  | 7.3   | 61    | 0.00     |

(#) = Out of Range

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