

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN100824\  
 Data File : VN084355.D  
 Acq On : 08 Oct 2024 17:40  
 Operator : JC\MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC020

Quant Time: Oct 09 02:33:35 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N100824W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Oct 09 02:21:08 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                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I  | Bromochloromethane          | 1.000 | 1.000 | 0.0   | 88    | -0.01    |
| 2 M  | Dichlorodifluoromethane     | 1.832 | 1.735 | 5.3   | 79    | 0.00     |
| 3 M  | Chloromethane               | 2.084 | 2.021 | 3.0   | 83    | 0.00     |
| 4 M  | Vinyl Chloride              | 2.044 | 2.000 | 2.2   | 84    | 0.00     |
| 5 M  | Bromomethane                | 1.354 | 1.076 | 20.5  | 67    | 0.00     |
| 6 M  | Chloroethane                | 1.340 | 1.256 | 6.3   | 79    | 0.00     |
| 7 M  | Trichlorofluoromethane      | 3.329 | 3.208 | 3.6   | 83    | 0.00     |
| 8 T  | Diethyl Ether               | 1.224 | 1.129 | 7.8   | 81    | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 1.872 | 1.857 | 0.8   | 86    | 0.00     |
| 10 M | 1,1-Dichloroethene          | 1.868 | 1.751 | 6.3   | 84    | 0.00     |
| 11   | Methyl Iodide               | 2.455 | 1.549 | 36.9# | 55    | 0.00     |
| 12   | Methyl Acetate              | 2.339 | 2.030 | 13.2  | 78    | 0.00     |
| 13 M | Acrolein                    | 0.434 | 0.394 | 9.2   | 86    | 0.00     |
| 14 M | Acrylonitrile               | 1.051 | 0.896 | 14.7  | 74    | 0.00     |
| 15 M | Acetone                     | 0.300 | 0.297 | 1.0   | 91    | 0.00     |
| 16 M | Carbon Disulfide            | 5.562 | 5.086 | 8.6   | 78    | 0.01     |
| 17   | Allyl chloride              | 3.028 | 2.745 | 9.3   | 78    | 0.00     |
| 18 M | Methylene Chloride          | 2.104 | 2.005 | 4.7   | 82    | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 1.977 | 1.857 | 6.1   | 81    | 0.00     |
| 20 T | Diisopropyl ether           | 6.510 | 6.437 | 1.1   | 85    | 0.00     |
| 21 M | 1,1-Dichloroethane          | 3.736 | 3.604 | 3.5   | 83    | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 2.300 | 2.230 | 3.0   | 83    | 0.00     |
| 23 M | tert-Butyl Alcohol          | 0.403 | 0.299 | 25.8# | 66    | 0.00     |
| 24 M | Methyl tert-Butyl Ether     | 6.242 | 5.876 | 5.9   | 82    | 0.00     |
| 25 M | Chloroform                  | 3.783 | 3.782 | 0.0   | 85    | 0.00     |
| 26   | Cyclohexane                 | 3.124 | 2.810 | 10.1  | 75    | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 2.415 | 2.405 | 0.4   | 86    | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 84    | 0.00     |
| 29   | 1,1-Dichloropropene         | 0.492 | 0.473 | 3.9   | 81    | 0.00     |
| 30 M | 2-Butanone                  | 0.262 | 0.231 | 11.8  | 76    | 0.00     |
| 31   | 2,2-Dichloropropane         | 0.579 | 0.586 | -1.2  | 86    | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 0.629 | 0.636 | -1.1  | 83    | 0.00     |
| 33 M | Carbon Tetrachloride        | 0.545 | 0.543 | 0.4   | 84    | 0.00     |
| 34 M | Benzene                     | 1.542 | 1.541 | 0.1   | 83    | 0.00     |
| 35   | Methacrylonitrile           | 0.280 | 0.260 | 7.1   | 80    | 0.00     |
| 36 M | 1,2-Dichloroethane          | 0.514 | 0.510 | 0.8   | 82    | 0.00     |
| 37 M | Trichloroethene             | 0.355 | 0.341 | 3.9   | 78    | 0.00     |
| 38   | Methylcyclohexane           | 0.541 | 0.505 | 6.7   | 82    | 0.00     |
| 39 M | 1,2-Dichloropropane         | 0.376 | 0.371 | 1.3   | 81    | 0.00     |
| 40   | Dibromomethane              | 0.263 | 0.263 | 0.0   | 84    | 0.00     |
| 41 M | Bromodichloromethane        | 0.558 | 0.550 | 1.4   | 83    | 0.00     |
| 42 M | Vinyl Acetate               | 0.912 | 0.844 | 7.5   | 80    | 0.00     |
| 43   | Ethyl Acetate               | 0.517 | 0.482 | 6.8   | 80    | 0.00     |
| 44   | Isopropyl Acetate           | 0.846 | 0.794 | 6.1   | 80    | 0.00     |
| 45 T | 1,4-Dioxane                 | 0.008 | 0.006 | 25.0  | 76    | 0.00     |
| 46   | Methyl methacrylate         | 0.409 | 0.372 | 9.0   | 78    | 0.00     |
| 47   | n-amyl Acetate              | 0.753 | 0.689 | 8.5   | 78    | 0.00     |
| 48 M | t-1,3-Dichloropropene       | 0.576 | 0.541 | 6.1   | 81    | 0.00     |

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 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC020

Quant Time: Oct 09 02:33:35 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N100824W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Oct 09 02:21:08 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                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 49 T | cis-1,3-Dichloropropene     | 0.604 | 0.590 | 2.3  | 81    | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 0.353 | 0.352 | 0.3  | 84    | 0.00     |
| 51   | Ethyl methacrylate          | 0.583 | 0.525 | 9.9  | 77    | 0.00     |
| 52   | 1,3-Dichloropropane         | 0.617 | 0.608 | 1.5  | 82    | 0.00     |
| 53 M | Dibromochloromethane        | 0.417 | 0.402 | 3.6  | 81    | 0.00     |
| 54 M | 1,2-Dibromoethane           | 0.364 | 0.349 | 4.1  | 79    | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 0.265 | 0.245 | 7.5  | 82    | 0.00     |
| 56 M | Bromoform                   | 0.277 | 0.261 | 5.8  | 83    | 0.00     |
| 57 I | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 83    | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 0.559 | 0.514 | 8.1  | 76    | 0.00     |
| 59 M | 2-Hexanone                  | 0.415 | 0.374 | 9.9  | 76    | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 0.495 | 0.489 | 1.2  | 82    | 0.00     |
| 61 M | Tetrachloroethene           | 0.339 | 0.330 | 2.7  | 80    | 0.00     |
| 62 M | Toluene                     | 1.756 | 1.786 | -1.7 | 84    | 0.00     |
| 63 S | Toluene-d8                  | 1.390 | 1.424 | -2.4 | 85    | 0.00     |
| 64 M | Chlorobenzene               | 1.093 | 1.076 | 1.6  | 82    | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 0.380 | 0.384 | -1.1 | 83    | 0.00     |
| 66 M | Ethyl Benzene               | 1.908 | 1.823 | 4.5  | 80    | 0.00     |
| 67 M | m/p-Xylenes                 | 0.724 | 0.717 | 1.0  | 82    | 0.00     |
| 68 M | o-Xylene                    | 0.698 | 0.668 | 4.3  | 80    | 0.00     |
| 69 M | Styrene                     | 1.198 | 1.157 | 3.4  | 81    | 0.00     |
| 70   | Isopropylbenzene            | 1.781 | 1.686 | 5.3  | 78    | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 0.551 | 0.543 | 1.5  | 82    | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 0.472 | 0.435 | 7.8  | 77    | 0.00     |
| 73   | Bromobenzene                | 0.431 | 0.424 | 1.6  | 82    | 0.00     |
| 74   | n-propylbenzene             | 2.123 | 2.038 | 4.0  | 80    | 0.00     |
| 75   | 2-Chlorotoluene             | 1.319 | 1.295 | 1.8  | 81    | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 1.500 | 1.463 | 2.5  | 82    | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 0.202 | 0.173 | 14.4 | 77    | 0.00     |
| 78   | 4-Chlorotoluene             | 1.341 | 1.304 | 2.8  | 82    | 0.00     |
| 79   | tert-butylbenzene           | 1.279 | 1.212 | 5.2  | 80    | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 1.522 | 1.477 | 3.0  | 82    | 0.00     |
| 81   | sec-Butylbenzene            | 1.762 | 1.694 | 3.9  | 80    | 0.00     |
| 82   | p-Isopropyltoluene          | 1.483 | 1.376 | 7.2  | 79    | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 0.802 | 0.774 | 3.5  | 81    | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 0.796 | 0.738 | 7.3  | 80    | 0.00     |
| 85   | n-Butylbenzene              | 1.284 | 1.144 | 10.9 | 79    | 0.00     |
| 86 T | Hexachloroethane            | 0.286 | 0.271 | 5.2  | 81    | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 0.775 | 0.740 | 4.5  | 81    | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 0.113 | 0.098 | 13.3 | 74    | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 0.403 | 0.332 | 17.6 | 72    | 0.00     |
| 90   | Hexachlorobutadiene         | 0.187 | 0.158 | 15.5 | 76    | 0.00     |
| 91 M | Naphthalene                 | 1.366 | 1.067 | 21.9 | 69    | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 0.403 | 0.332 | 17.6 | 72    | 0.00     |

(#) = Out of Range

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