

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN102324\  
 Data File : VN084469.D  
 Acq On : 23 Oct 2024 13:26  
 Operator : JC\MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC020

Quant Time: Oct 24 04:04:50 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N100824W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Oct 09 02:22:28 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   | 98    | 0.00     |
| 2 M  | Dichlorodifluoromethane     | 20.000  | 17.874  | 10.6  | 83    | 0.00     |
| 3 M  | Chloromethane               | 20.000  | 17.454  | 12.7  | 83    | 0.00     |
| 4 M  | Vinyl Chloride              | 20.000  | 18.121  | 9.4   | 87    | 0.00     |
| 5 M  | Bromomethane                | 20.000  | 17.336  | 13.3  | 82    | 0.00     |
| 6 M  | Chloroethane                | 20.000  | 18.129  | 9.4   | 86    | 0.00     |
| 7 M  | Trichlorofluoromethane      | 20.000  | 18.855  | 5.7   | 91    | 0.00     |
| 8 T  | Diethyl Ether               | 20.000  | 15.829  | 20.9  | 77    | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 20.000  | 19.409  | 3.0   | 95    | 0.00     |
| 10 M | 1,1-Dichloroethene          | 20.000  | 17.477  | 12.6  | 88    | 0.00     |
| 11   | Methyl Iodide               | 20.000  | 16.850  | 15.7  | 82    | 0.00     |
| 12   | Methyl Acetate              | 20.000  | 18.472  | 7.6   | 93    | 0.00     |
| 13 M | Acrolein                    | 100.000 | 55.516  | 44.5# | 59    | 0.00     |
| 14 M | Acrylonitrile               | 100.000 | 82.322  | 17.7  | 80    | 0.00     |
| 15 M | Acetone                     | 100.000 | 94.865  | 5.1   | 98    | 0.00     |
| 16 M | Carbon Disulfide            | 20.000  | 16.648  | 16.8  | 80    | 0.00     |
| 17   | Allyl chloride              | 20.000  | 15.811  | 20.9  | 76    | 0.00     |
| 18 M | Methylene Chloride          | 20.000  | 18.764  | 6.2   | 91    | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 20.000  | 17.558  | 12.2  | 85    | 0.00     |
| 20 T | Diisopropyl ether           | 20.000  | 18.717  | 6.4   | 90    | 0.00     |
| 21 M | 1,1-Dichloroethane          | 20.000  | 18.713  | 6.4   | 90    | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 20.000  | 18.271  | 8.6   | 88    | 0.00     |
| 23 M | tert-Butyl Alcohol          | 100.000 | 75.425  | 24.6  | 75    | 0.00     |
| 24 M | Methyl tert-Butyl Ether     | 20.000  | 17.160  | 14.2  | 84    | 0.00     |
| 25 M | Chloroform                  | 20.000  | 19.605  | 2.0   | 94    | 0.00     |
| 26   | Cyclohexane                 | 20.000  | 16.397  | 18.0  | 77    | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 30.000  | 30.241  | -0.8  | 97    | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 30.000  | 30.000  | 0.0   | 91    | 0.00     |
| 29   | 1,1-Dichloropropene         | 20.000  | 18.826  | 5.9   | 85    | 0.00     |
| 30 M | 2-Butanone                  | 100.000 | 89.602  | 10.4  | 83    | 0.00     |
| 31   | 2,2-Dichloropropane         | 20.000  | 20.593  | -3.0  | 94    | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 20.000  | 20.022  | -0.1  | 88    | 0.00     |
| 33 M | Carbon Tetrachloride        | 20.000  | 20.231  | -1.2  | 92    | 0.00     |
| 34 M | Benzene                     | 20.000  | 20.048  | -0.2  | 90    | 0.00     |
| 35   | Methacrylonitrile           | 20.000  | 18.505  | 7.5   | 86    | 0.00     |
| 36 M | 1,2-Dichloroethane          | 20.000  | 20.063  | -0.3  | 90    | 0.00     |
| 37 M | Trichloroethene             | 20.000  | 19.449  | 2.8   | 86    | 0.00     |
| 38   | Methylcyclohexane           | 20.000  | 17.324  | 13.4  | 82    | 0.00     |
| 39 M | 1,2-Dichloropropane         | 20.000  | 20.250  | -1.3  | 89    | 0.00     |
| 40   | Dibromomethane              | 20.000  | 20.511  | -2.6  | 93    | 0.00     |
| 41 M | Bromodichloromethane        | 20.000  | 20.692  | -3.5  | 94    | 0.00     |
| 42 M | Vinyl Acetate               | 100.000 | 81.672  | 18.3  | 76    | 0.00     |
| 43   | Ethyl Acetate               | 20.000  | 17.870  | 10.6  | 82    | 0.00     |
| 44   | Isopropyl Acetate           | 20.000  | 17.861  | 10.7  | 82    | 0.00     |
| 45 T | 1,4-Dioxane                 | 400.000 | 368.605 | 7.8   | 89    | -0.01    |
| 46   | Methyl methacrylate         | 20.000  | 17.179  | 14.1  | 79    | 0.00     |
| 47   | n-amyl Acetate              | 20.000  | 17.575  | 12.1  | 81    | 0.00     |
| 48 M | t-1,3-Dichloropropene       | 20.000  | 18.324  | 8.4   | 85    | 0.00     |

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 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  | 19.099  | 4.5   | 85    | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 20.000  | 20.783  | -3.9  | 94    | 0.00     |
| 51   | Ethyl methacrylate          | 20.000  | 17.501  | 12.5  | 81    | 0.00     |
| 52   | 1,3-Dichloropropane         | 20.000  | 19.795  | 1.0   | 89    | 0.00     |
| 53 M | Dibromochloromethane        | 20.000  | 20.171  | -0.9  | 92    | 0.00     |
| 54 M | 1,2-Dibromoethane           | 20.000  | 19.415  | 2.9   | 87    | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 100.000 | 101.652 | -1.7  | 97    | 0.00     |
| 56 M | Bromoform                   | 20.000  | 19.700  | 1.5   | 94    | 0.00     |
| 57 I | Chlorobenzene-d5            | 30.000  | 30.000  | 0.0   | 93    | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 100.000 | 89.259  | 10.7  | 83    | 0.00     |
| 59 M | 2-Hexanone                  | 100.000 | 88.472  | 11.5  | 83    | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 30.000  | 30.609  | -2.0  | 95    | 0.00     |
| 61 M | Tetrachloroethene           | 20.000  | 19.924  | 0.4   | 92    | 0.00     |
| 62 M | Toluene                     | 20.000  | 19.563  | 2.2   | 90    | 0.00     |
| 63 S | Toluene-d8                  | 30.000  | 31.470  | -4.9  | 97    | 0.00     |
| 64 M | Chlorobenzene               | 20.000  | 18.980  | 5.1   | 88    | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 20.000  | 20.449  | -2.2  | 94    | 0.00     |
| 66 M | Ethyl Benzene               | 20.000  | 18.674  | 6.6   | 87    | 0.00     |
| 67 M | m/p-Xylenes                 | 40.000  | 38.697  | 3.3   | 89    | 0.00     |
| 68 M | o-Xylene                    | 20.000  | 18.712  | 6.4   | 87    | 0.00     |
| 69 M | Styrene                     | 20.000  | 19.049  | 4.8   | 89    | 0.00     |
| 70   | Isopropylbenzene            | 20.000  | 18.562  | 7.2   | 86    | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 20.000  | 19.569  | 2.2   | 91    | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 20.000  | 18.553  | 7.2   | 87    | 0.00     |
| 73   | Bromobenzene                | 20.000  | 19.005  | 5.0   | 89    | 0.00     |
| 74   | n-propylbenzene             | 20.000  | 19.015  | 4.9   | 89    | 0.00     |
| 75   | 2-Chlorotoluene             | 20.000  | 18.872  | 5.6   | 87    | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 20.000  | 19.230  | 3.8   | 90    | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 20.000  | 17.098  | 14.5  | 85    | 0.00     |
| 78   | 4-Chlorotoluene             | 20.000  | 19.289  | 3.6   | 90    | 0.00     |
| 79   | tert-butylbenzene           | 20.000  | 18.519  | 7.4   | 87    | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 20.000  | 19.118  | 4.4   | 90    | 0.00     |
| 81   | sec-Butylbenzene            | 20.000  | 18.822  | 5.9   | 88    | 0.00     |
| 82   | p-Isopropyltoluene          | 20.000  | 18.417  | 7.9   | 88    | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 20.000  | 19.541  | 2.3   | 92    | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 20.000  | 18.906  | 5.5   | 91    | 0.00     |
| 85   | n-Butylbenzene              | 20.000  | 16.932  | 15.3  | 84    | 0.00     |
| 86 T | Hexachloroethane            | 20.000  | 19.072  | 4.6   | 90    | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 20.000  | 19.299  | 3.5   | 92    | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 20.000  | 16.680  | 16.6  | 79    | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 20.000  | 16.062  | 19.7  | 79    | 0.00     |
| 90   | Hexachlorobutadiene         | 20.000  | 17.240  | 13.8  | 86    | 0.00     |
| 91 M | Naphthalene                 | 20.000  | 13.809  | 31.0# | 68    | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 20.000  | 16.062  | 19.7  | 79    | 0.00     |

(#) = Out of Range

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