

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN073123\  
 Data File : VN078710.D  
 Acq On : 31 Jul 2023 17:12  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 01 01:20:29 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N071023W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 10 16:13:53 2023  
 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   | Pentafluorobenzene          | 50.000  | 50.000  | 0.0    | 141   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 56.230  | -12.5  | 165   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 56.254  | -12.5  | 172   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 72.252  | -44.5# | 215   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 41.296  | 17.4   | 114   | -0.02    |
| 6 T   | Chloroethane                | 50.000  | 44.619  | 10.8   | 115   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 55.151  | -10.3  | 163   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 60.108  | -20.2  | 168   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 56.877  | -13.8  | 162   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 57.276  | -14.6  | 161   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 290.022 | -16.0  | 165   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 57.990  | -16.0# | 166   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 287.346 | -14.9  | 159   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 59.887  | -19.8  | 173   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 314.112 | -25.6# | 175   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 310.207 | -24.1  | 184   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 52.794  | -5.6   | 157   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 61.404  | -22.8  | 176   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 59.980  | -20.0  | 166   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 61.728  | -23.5  | 168   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 56.911  | -13.8  | 161   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 64.097  | -28.2# | 176   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 314.228 | -25.7# | 168   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 59.433  | -18.9  | 169   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 312.028 | -24.8  | 174   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 61.135  | -22.3  | 173   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 57.906  | -15.8  | 163   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 56.679  | -13.4  | 159   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 309.662 | -23.9  | 170   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 58.691  | -17.4# | 163   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 56.767  | -13.5  | 174   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 57.091  | -14.2  | 158   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 53.914  | -7.8   | 153   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 134   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 56.049  | -12.1  | 155   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 58.347  | -16.7  | 161   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 61.269  | -22.5  | 164   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 57.462  | -14.9  | 156   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 61.592  | -23.2  | 166   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 60.559  | -21.1  | 164   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 67.148  | -34.3# | 184   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 57.423  | -14.8  | 161   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 69.860  | -39.7# | 187   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 54.967  | -9.9   | 156   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 62.507  | -25.0# | 172   | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 58.143  | -16.3  | 156   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 59.741  | -19.5  | 161   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 63.009  | -26.0# | 165   | 0.00     |

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 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 01 01:20:29 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N071023W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 10 16:13:53 2023  
 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  | 1,4-Dioxane                 | 1000.000 | 1169.961 | -17.0  | 158   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 53.417   | -6.8   | 147   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 316.717  | -26.7# | 166   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 59.792   | -19.6# | 160   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 62.587   | -25.2# | 165   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 64.185   | -28.4# | 165   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 59.816   | -19.6  | 162   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 65.925   | -31.8# | 166   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 60.423   | -20.8  | 163   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 299.401  | -19.8  | 154   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 318.693  | -27.5# | 164   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 60.084   | -20.2  | 158   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 59.385   | -18.8  | 158   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 60.425   | -20.8  | 161   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 136   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 52.430   | -4.9   | 144   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 56.842   | -13.7  | 158   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 56.649   | -13.3  | 155   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 60.645   | -21.3# | 161   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 122.758  | -22.8  | 159   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 59.711   | -19.4  | 160   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 61.956   | -23.9  | 160   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 61.550   | -23.1  | 160   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 139   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 52.809   | -5.6   | 159   | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 53.364   | -6.7   | 157   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 61.226   | -22.5  | 161   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 52.914   | -5.8   | 159   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 57.668   | -15.3  | 157   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 55.076   | -10.2  | 159   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 52.709   | -5.4   | 160   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 55.142   | -10.3  | 163   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 61.786   | -23.6  | 184   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 54.332   | -8.7   | 160   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 54.133   | -8.3   | 162   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 55.380   | -10.8  | 161   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 53.522   | -7.0   | 159   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 54.777   | -9.6   | 158   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 52.753   | -5.5   | 151   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 50.737   | -1.5   | 148   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 59.166   | -18.3  | 162   | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 59.496   | -19.0  | 167   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 52.206   | -4.4   | 151   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 56.125   | -12.3  | 154   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 50.651   | -1.3   | 132   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 68.484   | -37.0# | 171   | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 43.651   | 12.7   | 120   | 0.00     |

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Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
LabSampleId :  
VSTDCCC050

Quant Time: Aug 01 01:20:29 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N071023W.M  
Quant Title : SW846 8260  
QLast Update : Mon Jul 10 16:13:53 2023  
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) |
|------|------------------------|--------|--------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 49.049 | 1.9  | 136   | 0.00     |

(#) = Out of Range                      SPCC's out = 0    CCC's out = 6