

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090123\  
 Data File : VN079117.D  
 Acq On : 01 Sep 2023 12:35  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 01 23:09:20 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N081523W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 16 02:42:02 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    | 142   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 47.150  | 5.7    | 139   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 39.906  | 20.2   | 118   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 54.349  | -8.7#  | 158   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 34.882  | 30.2#  | 106   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 29.907  | 40.2#  | 90    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 51.045  | -2.1   | 147   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 51.084  | -2.2   | 151   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 52.681  | -5.4   | 152   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 61.285  | -22.6  | 164   | -0.01    |
| 11 T  | Tert butyl alcohol          | 250.000 | 200.009 | 20.0   | 116   | -0.02    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 52.833  | -5.7#  | 151   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 226.659 | 9.3    | 131   | -0.01    |
| 14 T  | Allyl chloride              | 50.000  | 41.968  | 16.1   | 115   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 235.354 | 5.9    | 133   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 249.585 | 0.2    | 139   | -0.01    |
| 17 T  | Carbon Disulfide            | 50.000  | 50.053  | -0.1   | 146   | -0.01    |
| 18 T  | Methyl Acetate              | 50.000  | 40.938  | 18.1   | 119   | -0.01    |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 52.025  | -4.0   | 146   | -0.02    |
| 20 T  | Methylene Chloride          | 50.000  | 51.426  | -2.9   | 152   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 52.805  | -5.6   | 150   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 48.603  | 2.8    | 135   | -0.01    |
| 23 T  | Vinyl Acetate               | 250.000 | 228.714 | 8.5    | 125   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 51.141  | -2.3   | 147   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 218.180 | 12.7   | 123   | -0.01    |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 52.950  | -5.9   | 149   | -0.01    |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 52.672  | -5.3   | 153   | -0.01    |
| 28 T  | Bromochloromethane          | 50.000  | 44.857  | 10.3   | 126   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 206.843 | 17.3   | 118   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 52.250  | -4.5#  | 148   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 50.837  | -1.7   | 141   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 52.052  | -4.1   | 148   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 46.674  | 6.7    | 134   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 134   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 55.758  | -11.5  | 147   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 56.572  | -13.1  | 147   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 47.602  | 4.8    | 122   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 55.826  | -11.7  | 146   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 58.545  | -17.1  | 151   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 57.131  | -14.3  | 150   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 46.165  | 7.7    | 118   | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 51.493  | -3.0   | 137   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 43.308  | 13.4   | 115   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 58.360  | -16.7  | 155   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 55.682  | -11.4# | 145   | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 53.067  | -6.1   | 144   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 56.036  | -12.1  | 148   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 45.908  | 8.2    | 122   | 0.00     |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
 QLast Update : Wed Aug 16 02:42:02 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 | 936.105 | 6.4    | 123   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 52.675  | -5.3   | 135   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 224.220 | 10.3   | 117   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 56.898  | -13.8# | 148   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 56.362  | -12.7  | 143   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 56.577  | -13.2  | 148   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 57.075  | -14.2  | 151   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 56.696  | -13.4  | 143   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 54.885  | -9.8   | 146   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 194.574 | 22.2   | 101   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 228.401 | 8.6    | 117   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 57.423  | -14.8  | 150   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 55.080  | -10.2  | 146   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 59.375  | -18.8  | 149   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0    | 132   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 60.808  | -21.6  | 165   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 56.584  | -13.2  | 147   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 57.783  | -15.6  | 148   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 57.644  | -15.3# | 150   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 114.056 | -14.1  | 145   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 56.948  | -13.9  | 143   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 58.056  | -16.1  | 144   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 59.582  | -19.2  | 152   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0    | 129   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 54.598  | -9.2   | 145   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 42.512  | 15.0   | 111   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 49.520  | 1.0    | 138   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 48.528  | 2.9    | 134   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 54.769  | -9.5   | 146   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 55.317  | -10.6  | 143   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 54.731  | -9.5   | 148   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 56.967  | -13.9  | 150   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 50.273  | -0.5   | 129   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 55.248  | -10.5  | 143   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 54.117  | -8.2   | 140   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 56.562  | -13.1  | 146   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 56.198  | -12.4  | 148   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 57.675  | -15.3  | 148   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 54.775  | -9.5   | 141   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 53.128  | -6.3   | 139   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 59.245  | -18.5  | 148   | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 54.112  | -8.2   | 151   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 54.190  | -8.4   | 144   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 48.293  | 3.4    | 119   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 61.303  | -22.6  | 151   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 72.815  | -45.6# | 180   | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 45.719  | 8.6    | 120   | 0.00     |

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Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
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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) |
|------|------------------------|--------|--------|-------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 58.184 | -16.4 | 147   | 0.00     |

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