

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN093023\  
 Data File : VN079376.D  
 Acq On : 30 Sep 2023 10:58  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 02 01:49:58 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091123W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 12 05:05:24 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    | 110   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 51.949  | -3.9   | 124   | -0.01    |
| 3 P   | Chloromethane               | 50.000  | 51.246  | -2.5   | 126   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 52.588  | -5.2#  | 125   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 50.609  | -1.2   | 125   | -0.01    |
| 6 T   | Chloroethane                | 50.000  | 59.650  | -19.3  | 134   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 48.926  | 2.1    | 117   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 53.458  | -6.9   | 121   | -0.01    |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 52.174  | -4.3   | 126   | -0.01    |
| 10 T  | Methyl Iodide               | 50.000  | 70.429  | -40.9# | 144   | -0.01    |
| 11 T  | Tert butyl alcohol          | 250.000 | 235.236 | 5.9    | 118   | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.613  | 0.8#   | 115   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 381.076 | -52.4# | 179   | -0.02    |
| 14 T  | Allyl chloride              | 50.000  | 51.848  | -3.7   | 121   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 289.518 | -15.8  | 134   | -0.01    |
| 16 T  | Acetone                     | 250.000 | 356.780 | -42.7# | 167   | -0.01    |
| 17 T  | Carbon Disulfide            | 50.000  | 37.742  | 24.5   | 95    | -0.02    |
| 18 T  | Methyl Acetate              | 50.000  | 62.175  | -24.3  | 149   | -0.02    |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 56.692  | -13.4  | 126   | -0.02    |
| 20 T  | Methylene Chloride          | 50.000  | 49.421  | 1.2    | 123   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 48.471  | 3.1    | 113   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 62.674  | -25.3# | 138   | -0.01    |
| 23 T  | Vinyl Acetate               | 250.000 | 296.832 | -18.7  | 129   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 57.123  | -14.2  | 132   | -0.01    |
| 25 T  | 2-Butanone                  | 250.000 | 322.996 | -29.2# | 144   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 55.970  | -11.9  | 124   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 54.844  | -9.7   | 123   | -0.01    |
| 28 T  | Bromochloromethane          | 50.000  | 56.640  | -13.3  | 118   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 312.234 | -24.9  | 136   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 58.779  | -17.6# | 135   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 48.928  | 2.1    | 119   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 56.080  | -12.2  | 125   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 56.299  | -12.6  | 118   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 115   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 51.804  | -3.6   | 111   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 52.494  | -5.0   | 119   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 58.786  | -17.6  | 134   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 52.370  | -4.7   | 122   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 50.638  | -1.3   | 112   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 53.424  | -6.8   | 123   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 64.874  | -29.7# | 142   | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 57.286  | -14.6  | 135   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 58.583  | -17.2  | 136   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 48.609  | 2.8    | 115   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 58.481  | -17.0# | 131   | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 57.408  | -14.8  | 129   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 60.278  | -20.6  | 134   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 61.380  | -22.8  | 136   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN093023\  
 Data File : VN079376.D  
 Acq On : 30 Sep 2023 10:58  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 02 01:49:58 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091123W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 12 05:05:24 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 | 1106.145 | -10.6  | 123   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.836   | -1.7   | 108   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 319.017  | -27.6# | 140   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 53.485   | -7.0#  | 121   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 57.337   | -14.7  | 126   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 58.001   | -16.0  | 128   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 57.699   | -15.4  | 133   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 60.634   | -21.3  | 125   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 58.018   | -16.0  | 132   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 271.692  | -8.7   | 131   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 328.582  | -31.4# | 141   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 61.716   | -23.4  | 137   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 58.082   | -16.2  | 128   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 54.198   | -8.4   | 111   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 118   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 47.597   | 4.8    | 119   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 51.202   | -2.4   | 125   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 53.509   | -7.0   | 130   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 55.596   | -11.2# | 126   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 112.004  | -12.0  | 125   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 55.656   | -11.3  | 123   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 59.277   | -18.6  | 125   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 53.259   | -6.5   | 120   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 118   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 50.791   | -1.6   | 129   | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 55.264   | -10.5  | 133   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 47.733   | 4.5    | 136   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 51.952   | -3.9   | 146   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 46.186   | 7.6    | 121   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 53.813   | -7.6   | 132   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 48.823   | 2.4    | 128   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.061   | -2.1   | 129   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 47.536   | 4.9    | 121   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.540   | -1.1   | 127   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 49.490   | 1.0    | 123   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 52.802   | -5.6   | 129   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 52.896   | -5.8   | 131   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 52.680   | -5.4   | 128   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.663   | 0.7    | 126   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 48.137   | 3.7    | 124   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 53.789   | -7.6   | 127   | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 52.406   | -4.8   | 138   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 49.493   | 1.0    | 127   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 49.134   | 1.7    | 116   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 46.952   | 6.1    | 99    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 41.171   | 17.7   | 117   | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 41.332   | 17.3   | 90    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN093023\  
Data File : VN079376.D  
Acq On : 30 Sep 2023 10:58  
Operator : JC\MD  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
LabSampleId :  
VSTDCCC050

Quant Time: Oct 02 01:49:58 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091123W.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 12 05:05:24 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 | 47.700 | 4.6  | 114   | 0.00     |

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