

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN022324\  
 Data File : VN081182.D  
 Acq On : 24 Feb 2024 00:33  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Feb 24 03:34:52 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021624W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 16 23:45:20 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   | Pentafluorobenzene          | 50.000  | 50.000  | 0.0    | 71    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 52.726  | -5.5   | 71    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 46.290  | 7.4    | 65    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 52.254  | -4.5#  | 76    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 40.248  | 19.5   | 60    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 54.328  | -8.7   | 77    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 53.783  | -7.6   | 77    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 53.494  | -7.0   | 76    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 52.874  | -5.7   | 76    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 50.859  | -1.7   | 70    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 317.102 | -26.8# | 100   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 52.582  | -5.2#  | 76    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 277.359 | -10.9  | 87    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 50.535  | -1.1   | 73    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 301.222 | -20.5  | 89    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 275.622 | -10.2  | 84    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 45.971  | 8.1    | 68    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 68.551  | -37.1# | 97    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 56.103  | -12.2  | 80    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 56.819  | -13.6  | 81    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 50.273  | -0.5   | 75    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 57.154  | -14.3  | 82    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 280.797 | -12.3  | 79    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 56.650  | -13.3  | 81    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 287.850 | -15.1  | 86    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 42.326  | 15.3   | 60    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 54.358  | -8.7   | 79    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 58.496  | -17.0  | 85    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 294.814 | -17.9  | 89    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 56.837  | -13.7# | 83    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 48.573  | 2.9    | 75    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 54.859  | -9.7   | 80    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 52.427  | -4.9   | 79    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 72    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 52.718  | -5.4   | 78    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 52.136  | -4.3   | 78    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 57.418  | -14.8  | 85    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 55.174  | -10.3  | 78    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 51.069  | -2.1   | 74    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 54.540  | -9.1   | 80    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 56.394  | -12.8  | 91    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 56.268  | -12.5  | 83    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 71.170  | -42.3# | 105   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 50.807  | -1.6   | 77    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 56.262  | -12.5# | 83    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 54.719  | -9.4   | 82    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 57.590  | -15.2  | 81    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 57.246  | -14.5  | 87    | 0.00     |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
 QLast Update : Fri Feb 16 23:45:20 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) |
|-------|-----------------------------|----------|----------|--------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1337.870 | -33.8# | 93    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 49.479   | 1.0    | 76    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 301.288  | -20.5  | 88    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 55.826   | -11.7# | 80    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 52.903   | -5.8   | 72    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 52.594   | -5.2   | 75    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 57.910   | -15.8  | 82    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 58.009   | -16.0  | 82    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 56.500   | -13.0  | 83    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 263.692  | -5.5   | 77    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 287.746  | -15.1  | 79    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 57.264   | -14.5  | 78    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 57.198   | -14.4  | 82    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 52.035   | -4.1   | 79    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 74    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 50.056   | -0.1   | 80    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 51.945   | -3.9   | 79    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 53.901   | -7.8   | 79    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 52.988   | -6.0#  | 79    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 106.787  | -6.8   | 79    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 52.852   | -5.7   | 79    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 54.845   | -9.7   | 79    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 60.046   | -20.1  | 82    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 81    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 49.869   | 0.3    | 81    | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 51.348   | -2.7   | 83    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 54.400   | -8.8   | 91    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 46.356   | 7.3    | 80    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 49.980   | 0.0    | 84    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 51.382   | -2.8   | 82    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 48.758   | 2.5    | 82    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.572   | -3.1   | 82    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 45.982   | 8.0    | 73    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 49.126   | 1.7    | 81    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 50.809   | -1.6   | 83    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 51.709   | -3.4   | 83    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 53.627   | -7.3   | 85    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 52.379   | -4.8   | 83    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 48.074   | 3.9    | 81    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.280   | 1.4    | 82    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 52.363   | -4.7   | 82    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 55.340   | -10.7  | 84    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 49.338   | 1.3    | 83    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 52.027   | -4.1   | 87    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 48.352   | 3.3    | 77    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 46.573   | 6.9    | 76    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 51.006   | -2.0   | 83    | 0.00     |

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Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 33 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
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QLast Update : Fri Feb 16 23:45:20 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) |
|------|------------------------|--------|--------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 50.377 | -0.8 | 81    | 0.00     |

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