

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN110423\  
 Data File : VN079889.D  
 Acq On : 04 Nov 2023 13:19  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 06 02:11:26 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N110123W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 02 05:49:08 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    | 86    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 53.917  | -7.8   | 91    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 48.336  | 3.3    | 83    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 61.082  | -22.2# | 104   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 59.366  | -18.7  | 107   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 47.090  | 5.8    | 85    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 51.789  | -3.6   | 90    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 54.081  | -8.2   | 91    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 53.084  | -6.2   | 94    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 53.873  | -7.7   | 87    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 232.982 | 6.8    | 84    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 51.616  | -3.2#  | 88    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 335.012 | -34.0# | 105   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 55.858  | -11.7  | 97    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 280.185 | -12.1  | 98    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 307.066 | -22.8  | 113   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 49.355  | 1.3    | 87    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 55.556  | -11.1  | 101   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 56.306  | -12.6  | 95    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 52.283  | -4.6   | 95    | 0.01     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 53.246  | -6.5   | 93    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 61.417  | -22.8  | 101   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 290.665 | -16.3  | 94    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 57.461  | -14.9  | 100   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 304.495 | -21.8  | 103   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 54.166  | -8.3   | 91    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 55.028  | -10.1  | 96    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 56.811  | -13.6  | 97    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 291.467 | -16.6  | 99    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 53.868  | -7.7#  | 99    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 52.850  | -5.7   | 96    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 56.034  | -12.1  | 98    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 56.296  | -12.6  | 95    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 86    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 54.116  | -8.2   | 92    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 56.573  | -13.1  | 98    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 58.343  | -16.7  | 98    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 56.439  | -12.9  | 97    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 56.087  | -12.2  | 91    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 55.939  | -11.9  | 98    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 61.591  | -23.2  | 104   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 60.001  | -20.0  | 105   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 54.614  | -9.2   | 95    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 53.914  | -7.8   | 95    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 60.307  | -20.6# | 103   | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 57.961  | -15.9  | 100   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 55.962  | -11.9  | 100   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 61.763  | -23.5  | 98    | 0.00     |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 06 02:11:26 2023  
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 Quant Title : SW846 8260  
 QLast Update : Thu Nov 02 05:49:08 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 | 1093.146 | -9.3   | 92    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 53.887   | -7.8   | 89    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 304.389  | -21.8  | 100   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 58.239   | -16.5# | 96    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 59.275   | -18.5  | 96    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 59.020   | -18.0  | 95    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 56.917   | -13.8  | 97    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 61.082   | -22.2  | 96    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 58.581   | -17.2  | 100   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 279.215  | -11.7  | 88    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 290.895  | -16.4  | 96    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 58.377   | -16.8  | 96    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 57.349   | -14.7  | 96    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 56.423   | -12.8  | 90    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 87    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 61.599   | -23.2  | 107   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 53.990   | -8.0   | 95    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 56.614   | -13.2  | 97    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 56.690   | -13.4# | 94    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 114.414  | -14.4  | 95    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 56.477   | -13.0  | 93    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 60.636   | -21.3  | 94    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 58.689   | -17.4  | 94    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 88    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 55.155   | -10.3  | 94    | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 52.009   | -4.0   | 88    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 50.696   | -1.4   | 93    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 53.806   | -7.6   | 99    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 53.753   | -7.5   | 95    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 57.779   | -15.6  | 95    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 55.647   | -11.3  | 98    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 58.640   | -17.3  | 97    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 55.798   | -11.6  | 89    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 55.721   | -11.4  | 96    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 57.485   | -15.0  | 94    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 59.563   | -19.1  | 95    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 57.807   | -15.6  | 94    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 59.239   | -18.5  | 94    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 54.079   | -8.2   | 95    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 52.719   | -5.4   | 95    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 58.383   | -16.8  | 93    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 54.461   | -8.9   | 100   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 54.415   | -8.8   | 95    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 55.393   | -10.8  | 93    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 54.866   | -9.7   | 90    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 55.562   | -11.1  | 100   | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 49.437   | 1.1    | 81    | 0.00     |

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Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
LabSampleId :  
VSTDCCC050

Quant Time: Nov 06 02:11:26 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N110123W.M  
Quant Title : SW846 8260  
QLast Update : Thu Nov 02 05:49:08 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 | 53.908 | -7.8 | 90    | 0.00     |

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