

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN101923\  
 Data File : VN079617.D  
 Acq On : 19 Oct 2023 16:40  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 20 01:30:04 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N100523W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Oct 06 03:34:49 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   | 95    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 43.457  | 13.1  | 79    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 39.210  | 21.6  | 76    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 42.369  | 15.3# | 80    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 39.850  | 20.3  | 81    | 0.02     |
| 6 T   | Chloroethane                | 50.000  | 39.746  | 20.5  | 82    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 46.873  | 6.3   | 91    | 0.01     |
| 8 T   | Diethyl Ether               | 50.000  | 47.650  | 4.7   | 87    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 45.310  | 9.4   | 92    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 58.016  | -16.0 | 96    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 173.817 | 30.5# | 67    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 47.073  | 5.9#  | 90    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 259.315 | -3.7  | 96    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 44.247  | 11.5  | 85    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 221.522 | 11.4  | 81    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 222.499 | 11.0  | 83    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 40.433  | 19.1  | 79    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 41.044  | 17.9  | 81    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 49.028  | 1.9   | 89    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 47.656  | 4.7   | 91    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 44.593  | 10.8  | 89    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 49.747  | 0.5   | 91    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 240.900 | 3.6   | 83    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 47.005  | 6.0   | 91    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 214.943 | 14.0  | 77    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 48.772  | 2.5   | 90    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 48.846  | 2.3   | 93    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 48.017  | 4.0   | 87    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 218.237 | 12.7  | 78    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 47.999  | 4.0#  | 93    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 42.334  | 15.3  | 85    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 48.470  | 3.1   | 93    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 47.476  | 5.0   | 93    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 94    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 49.716  | 0.6   | 96    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 48.042  | 3.9   | 88    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 45.586  | 8.8   | 80    | -0.01    |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.206  | 1.6   | 92    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 48.906  | 2.2   | 85    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.007  | 2.0   | 91    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 45.750  | 8.5   | 79    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 48.305  | 3.4   | 92    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 45.783  | 8.4   | 86    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 48.827  | 2.3   | 93    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.730  | 0.5#  | 94    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 50.682  | -1.4  | 92    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 51.159  | -2.3  | 94    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 46.435  | 7.1   | 80    | 0.00     |

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 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
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 LabSampleId :  
 VSTDCCC050

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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 | 863.555 | 13.6  | 72    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 51.388  | -2.8  | 94    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 231.539 | 7.4   | 80    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 51.533  | -3.1# | 91    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.016  | -2.0  | 89    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 51.827  | -3.7  | 90    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 50.565  | -1.1  | 93    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 52.877  | -5.8  | 85    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.071  | -2.1  | 92    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 258.520 | -3.4  | 85    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 229.623 | 8.2   | 76    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 52.958  | -5.9  | 94    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 48.889  | 2.2   | 90    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 52.775  | -5.5  | 94    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 94    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 46.472  | 7.1   | 90    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 48.192  | 3.6   | 92    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 50.842  | -1.7  | 96    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 51.718  | -3.4# | 90    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 106.732 | -6.7  | 92    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 52.340  | -4.7  | 92    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 54.690  | -9.4  | 90    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 49.104  | 1.8   | 91    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 96    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 44.503  | 11.0  | 90    | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 41.700  | 16.6  | 79    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 44.305  | 11.4  | 88    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 39.763  | 20.5  | 82    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 40.610  | 18.8  | 88    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 46.497  | 7.0   | 90    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 43.677  | 12.6  | 92    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 46.375  | 7.2   | 90    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 38.520  | 23.0  | 78    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 44.290  | 11.4  | 89    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 46.223  | 7.6   | 89    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 48.622  | 2.8   | 92    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 47.076  | 5.8   | 90    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 49.592  | 0.8   | 91    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 46.354  | 7.3   | 90    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 43.699  | 12.6  | 89    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 51.589  | -3.2  | 90    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 47.727  | 4.5   | 91    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 45.787  | 8.4   | 89    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 36.302  | 27.4# | 74    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 46.309  | 7.4   | 75    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 41.778  | 16.4  | 87    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 37.018  | 26.0# | 61    | 0.00     |

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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 | 40.300 | 19.4 | 72    | 0.00     |

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