

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN070725\  
 Data File : VN087293.D  
 Acq On : 07 Jul 2025 16:18  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 08 01:34:38 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N063025W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 01 03:15:00 2025  
 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    | 182   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 51.276  | -2.6   | 179   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 50.056  | -0.1   | 183   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 51.158  | -2.3#  | 185   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 48.196  | 3.6    | 193   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 51.590  | -3.2   | 189   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 50.652  | -1.3   | 190   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 51.056  | -2.1   | 182   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 50.642  | -1.3   | 189   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 59.002  | -18.0  | 199   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 245.514 | 1.8    | 178   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 50.443  | -0.9#  | 184   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 313.797 | -25.5# | 239   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 48.952  | 2.1    | 180   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 243.083 | 2.8    | 183   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 254.935 | -2.0   | 197   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 46.501  | 7.0    | 179   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 51.623  | -3.2   | 191   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 49.104  | 1.8    | 181   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 49.205  | 1.6    | 188   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.814  | 4.4    | 184   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 47.785  | 4.4    | 176   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 241.420 | 3.4    | 175   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 48.796  | 2.4    | 182   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 246.714 | 1.3    | 182   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 49.960  | 0.1    | 188   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 48.390  | 3.2    | 181   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 44.909  | 10.2   | 161   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 245.898 | 1.6    | 178   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 49.693  | 0.6#   | 188   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 42.363  | 15.3   | 168   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 48.688  | 2.6    | 185   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 43.828  | 12.3   | 169   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 180   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 46.075  | 7.8    | 173   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 48.847  | 2.3    | 180   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 47.921  | 4.2    | 173   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 50.228  | -0.5   | 183   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 47.906  | 4.2    | 173   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 48.419  | 3.2    | 179   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 50.109  | -0.2   | 181   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 48.264  | 3.5    | 175   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 48.497  | 3.0    | 176   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 49.549  | 0.9    | 184   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.603  | -1.2#  | 184   | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 49.475  | 1.0    | 184   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 50.316  | -0.6   | 186   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 50.461  | -0.9   | 179   | 0.00     |

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 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

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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) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| ----- |                             |          |          |       |       |          |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1067.647 | -6.8  | 189   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 43.790   | 12.4  | 163   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 259.697  | -3.9  | 183   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.044   | -0.1# | 179   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 50.017   | -0.0  | 179   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.252   | -0.5  | 181   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 49.903   | 0.2   | 184   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 48.317   | 3.4   | 175   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 49.031   | 1.9   | 182   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 244.712  | 2.1   | 171   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 238.495  | 4.6   | 178   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 51.090   | -2.2  | 184   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 50.589   | -1.2  | 183   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 44.640   | 10.7  | 165   | 0.00     |
|       |                             |          |          |       |       |          |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 180   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 49.680   | 0.6   | 185   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 48.746   | 2.5   | 184   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 50.645   | -1.3  | 187   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 49.876   | 0.2#  | 181   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 103.163  | -3.2  | 184   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 51.424   | -2.8  | 181   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 51.933   | -3.9  | 180   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 52.430   | -4.9  | 184   | 0.00     |
|       |                             |          |          |       |       |          |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 185   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 47.654   | 4.7   | 181   | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 42.969   | 14.1  | 204   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 44.954   | 10.1  | 178   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 49.455   | 1.1   | 205   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 48.396   | 3.2   | 182   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 47.758   | 4.5   | 181   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 46.614   | 6.8   | 179   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 49.690   | 0.6   | 182   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 44.383   | 11.2  | 171   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 46.750   | 6.5   | 180   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 47.826   | 4.3   | 180   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 49.717   | 0.6   | 179   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 48.576   | 2.8   | 179   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 49.611   | 0.8   | 180   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 47.798   | 4.4   | 184   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 46.782   | 6.4   | 186   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 46.932   | 6.1   | 173   | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 47.273   | 5.5   | 180   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 47.334   | 5.3   | 182   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 44.157   | 11.7  | 176   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 45.841   | 8.3   | 176   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 38.993   | 22.0  | 156   | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 46.056   | 7.9   | 173   | 0.00     |

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ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N063025W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jul 01 03:15:00 2025  
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 | 45.621 | 8.8  | 174   | 0.00     |

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