

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY061325\  
 Data File : VY022682.D  
 Acq On : 13 Jun 2025 08:36  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 14 01:59:01 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y060225S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 10 15:26:14 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    | 72    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 46.090  | 7.8    | 72    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 45.395  | 9.2    | 70    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 58.305  | -16.6# | 86    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 47.216  | 5.6    | 81    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 60.952  | -21.9  | 96    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 63.079  | -26.2# | 97    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 52.532  | -5.1   | 77    | -0.01    |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 53.591  | -7.2   | 79    | -0.01    |
| 10 T  | Methyl Iodide               | 50.000  | 52.439  | -4.9   | 70    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 258.789 | -3.5   | 76    | -0.02    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 52.792  | -5.6#  | 77    | -0.01    |
| 13 T  | Acrolein                    | 250.000 | 101.671 | 59.3#  | 30    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 50.979  | -2.0   | 75    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 263.987 | -5.6   | 75    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 284.494 | -13.8  | 81    | -0.01    |
| 17 T  | Carbon Disulfide            | 50.000  | 49.909  | 0.2    | 73    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 52.536  | -5.1   | 77    | -0.01    |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 52.210  | -4.4   | 76    | -0.02    |
| 20 T  | Methylene Chloride          | 50.000  | 50.005  | -0.0   | 81    | -0.01    |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 53.104  | -6.2   | 79    | -0.01    |
| 22 T  | Diisopropyl ether           | 50.000  | 53.521  | -7.0   | 78    | -0.01    |
| 23 T  | Vinyl Acetate               | 250.000 | 256.196 | -2.5   | 74    | -0.01    |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 54.971  | -9.9   | 81    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 268.797 | -7.5   | 76    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 55.382  | -10.8  | 81    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 55.016  | -10.0  | 79    | -0.01    |
| 28 T  | Bromochloromethane          | 50.000  | 49.553  | 0.9    | 74    | -0.01    |
| 29 T  | Tetrahydrofuran             | 250.000 | 260.246 | -4.1   | 76    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 55.811  | -11.6# | 81    | -0.01    |
| 31 T  | Cyclohexane                 | 50.000  | 47.616  | 4.8    | 73    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 55.500  | -11.0  | 80    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 51.600  | -3.2   | 71    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 73    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 52.606  | -5.2   | 71    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 54.211  | -8.4   | 79    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 51.858  | -3.7   | 71    | -0.01    |
| 38 T  | Carbon Tetrachloride        | 50.000  | 54.526  | -9.1   | 78    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 50.923  | -1.8   | 74    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 55.001  | -10.0  | 80    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 55.444  | -10.9  | 82    | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 54.175  | -8.3   | 79    | -0.01    |
| 43 T  | Isopropyl Acetate           | 50.000  | 51.951  | -3.9   | 74    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 55.178  | -10.4  | 79    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 55.001  | -10.0# | 79    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 54.367  | -8.7   | 78    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 55.613  | -11.2  | 80    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 49.560  | 0.9    | 71    | 0.00     |

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 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y060225S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 10 15:26:14 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) |
|-------|-----------------------------|----------|----------|--------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1067.313 | -6.7   | 80    | -0.02    |
| 50 S  | Toluene-d8                  | 50.000   | 53.634   | -7.3   | 74    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 269.428  | -7.8   | 75    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 55.620   | -11.2# | 81    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 53.683   | -7.4   | 77    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 55.120   | -10.2  | 79    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 55.875   | -11.8  | 82    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 53.328   | -6.7   | 75    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 54.152   | -8.3   | 78    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 270.111  | -8.0   | 79    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 273.303  | -9.3   | 77    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 55.540   | -11.1  | 79    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 55.394   | -10.8  | 80    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 51.609   | -3.2   | 73    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 73    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 63.403   | -26.8# | 91    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 55.340   | -10.7  | 80    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 56.514   | -13.0  | 81    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 55.675   | -11.3# | 80    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 111.628  | -11.6  | 80    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 55.897   | -11.8  | 81    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 57.104   | -14.2  | 81    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 55.000   | -10.0  | 79    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 75    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 54.067   | -8.1   | 80    | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 51.221   | -2.4   | 74    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 48.889   | 2.2    | 72    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 47.198   | 5.6    | 64    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 54.043   | -8.1   | 81    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 54.463   | -8.9   | 80    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 53.990   | -8.0   | 80    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 54.092   | -8.2   | 80    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 50.200   | -0.4   | 76    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 53.438   | -6.9   | 79    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 54.537   | -9.1   | 81    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 53.591   | -7.2   | 80    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 54.139   | -8.3   | 80    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 54.419   | -8.8   | 81    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 53.966   | -7.9   | 82    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 54.527   | -9.1   | 81    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 55.127   | -10.3  | 81    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 54.470   | -8.9   | 81    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 55.188   | -10.4  | 81    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 54.381   | -8.8   | 76    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 55.913   | -11.8  | 83    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 54.886   | -9.8   | 82    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 53.722   | -7.4   | 77    | 0.00     |

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Sample : VSTDCCC050  
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ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
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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 | 54.942 | -9.9 | 82    | 0.00     |

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