

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY070325\  
 Data File : VY022929.D  
 Acq On : 03 Jul 2025 09:26  
 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: Jul 04 03:14:02 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y062325S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 24 08:29:52 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   | 86    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 46.238  | 7.5   | 81    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 52.232  | -4.5  | 93    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 49.090  | 1.8#  | 83    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 48.807  | 2.4   | 88    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 51.340  | -2.7  | 88    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 49.210  | 1.6   | 82    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 48.889  | 2.2   | 83    | -0.01    |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 50.449  | -0.9  | 87    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 58.333  | -16.7 | 90    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 209.190 | 16.3  | 70    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.317  | 1.4#  | 84    | -0.01    |
| 13 T  | Acrolein                    | 250.000 | 112.333 | 55.1# | 39    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 52.592  | -5.2  | 89    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 251.792 | -0.7  | 84    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 288.206 | -15.3 | 110   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 48.950  | 2.1   | 83    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 43.806  | 12.4  | 75    | -0.01    |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 48.988  | 2.0   | 81    | -0.01    |
| 20 T  | Methylene Chloride          | 50.000  | 46.373  | 7.3   | 90    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.507  | 1.0   | 84    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 52.907  | -5.8  | 88    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 264.179 | -5.7  | 86    | -0.01    |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 51.983  | -4.0  | 87    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 257.796 | -3.1  | 89    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 54.010  | -8.0  | 92    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 50.116  | -0.2  | 85    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 54.233  | -8.5  | 90    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 246.138 | 1.5   | 81    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 50.431  | -0.9# | 86    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 50.237  | -0.5  | 88    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 51.068  | -2.1  | 86    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 49.304  | 1.4   | 85    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 83    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 52.303  | -4.6  | 87    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 53.106  | -6.2  | 87    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 53.067  | -6.1  | 85    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 52.562  | -5.1  | 87    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 53.570  | -7.1  | 86    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 53.069  | -6.1  | 85    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 49.395  | 1.2   | 84    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 52.518  | -5.0  | 85    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 51.489  | -3.0  | 81    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 52.109  | -4.2  | 83    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 53.355  | -6.7# | 87    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 50.659  | -1.3  | 83    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 52.290  | -4.6  | 85    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 50.849  | -1.7  | 79    | 0.00     |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
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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 | 918.445 | 8.2    | 74    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 52.141  | -4.3   | 86    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 265.945 | -6.4   | 82    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 52.975  | -6.0#  | 85    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 52.642  | -5.3   | 85    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 52.668  | -5.3   | 85    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 51.449  | -2.9   | 83    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 51.487  | -3.0   | 79    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.822  | -3.6   | 84    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 250.621 | -0.2   | 85    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 269.637 | -7.9   | 85    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 50.681  | -1.4   | 81    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 50.594  | -1.2   | 81    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 50.636  | -1.3   | 85    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0    | 82    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 54.707  | -9.4   | 82    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 53.287  | -6.6   | 85    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 52.642  | -5.3   | 83    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 55.142  | -10.3# | 86    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 108.907 | -8.9   | 85    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 53.531  | -7.1   | 84    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 54.220  | -8.4   | 83    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 49.986  | 0.0    | 80    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0    | 79    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 55.014  | -10.0  | 85    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 54.490  | -9.0   | 80    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 50.011  | -0.0   | 83    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 49.112  | 1.8    | 78    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 51.820  | -3.6   | 81    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 55.477  | -11.0  | 86    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 54.420  | -8.8   | 84    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 55.216  | -10.4  | 85    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 53.038  | -6.1   | 85    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 53.872  | -7.7   | 84    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 55.584  | -11.2  | 85    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 54.542  | -9.1   | 83    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 55.247  | -10.5  | 85    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 55.152  | -10.3  | 84    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 53.495  | -7.0   | 84    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 51.654  | -3.3   | 81    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 55.546  | -11.1  | 85    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 53.852  | -7.7   | 83    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 50.925  | -1.8   | 80    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 46.591  | 6.8    | 72    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 47.848  | 4.3    | 75    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 48.629  | 2.7    | 79    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 46.711  | 6.6    | 70    | 0.00     |

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ALS Vial : 2 Sample Multiplier: 1

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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 | 46.460 | 7.1  | 73    | 0.00     |

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