

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY052025\  
 Data File : VY022329.D  
 Acq On : 20 May 2025 08:40  
 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: May 21 01:42:22 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y051525S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 16 01:42:09 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    | 67    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 46.679  | 6.6    | 65    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 49.842  | 0.3    | 71    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 62.153  | -24.3# | 85    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 58.088  | -16.2  | 89    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 66.345  | -32.7# | 90    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 56.065  | -12.1  | 77    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 45.847  | 8.3    | 63    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 51.283  | -2.6   | 69    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 50.311  | -0.6   | 62    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 215.761 | 13.7   | 63    | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.916  | 0.2#   | 67    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 122.519 | 51.0#  | 36    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 45.013  | 10.0   | 59    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 226.925 | 9.2    | 63    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 223.009 | 10.8   | 66    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 49.060  | 1.9    | 66    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 42.141  | 15.7   | 61    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 46.893  | 6.2    | 64    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 43.941  | 12.1   | 66    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.353  | 1.3    | 66    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 45.916  | 8.2    | 62    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 219.054 | 12.4   | 60    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 49.046  | 1.9    | 66    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 214.116 | 14.4   | 61    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 49.606  | 0.8    | 67    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 50.159  | -0.3   | 67    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 49.834  | 0.3    | 67    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 215.541 | 13.8   | 60    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 49.916  | 0.2#   | 66    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 46.827  | 6.3    | 66    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 49.587  | 0.8    | 67    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 48.805  | 2.4    | 66    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 68    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 51.076  | -2.2   | 69    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 50.028  | -0.1   | 66    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 43.038  | 13.9   | 59    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 50.762  | -1.5   | 68    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 50.127  | -0.3   | 67    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 50.555  | -1.1   | 67    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 45.192  | 9.6    | 61    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 48.255  | 3.5    | 64    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 43.001  | 14.0   | 59    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 50.212  | -0.4   | 67    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.181  | 1.6#   | 66    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 48.227  | 3.5    | 66    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 49.724  | 0.6    | 66    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 42.873  | 14.3   | 59    | 0.00     |

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 MSVOA\_Y  
 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 | 945.674 | 5.4   | 67    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 51.484  | -3.0  | 69    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 217.386 | 13.0  | 59    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 49.403  | 1.2#  | 66    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 47.744  | 4.5   | 64    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 48.006  | 4.0   | 64    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 48.082  | 3.8   | 65    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 45.862  | 8.3   | 62    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 48.388  | 3.2   | 65    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 226.074 | 9.6   | 57    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 214.015 | 14.4  | 59    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 48.185  | 3.6   | 64    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 47.659  | 4.7   | 64    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 48.365  | 3.3   | 66    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 67    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 50.915  | -1.8  | 66    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.729  | 0.5   | 65    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 49.374  | 1.3   | 65    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 50.166  | -0.3# | 65    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 100.899 | -0.9  | 66    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 48.989  | 2.0   | 64    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 49.374  | 1.3   | 64    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 45.610  | 8.8   | 61    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 67    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 50.055  | -0.1  | 66    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 42.753  | 14.5  | 58    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 46.716  | 6.6   | 63    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 47.114  | 5.8   | 64    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 47.696  | 4.6   | 63    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 50.658  | -1.3  | 66    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 48.352  | 3.3   | 63    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 49.303  | 1.4   | 65    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 44.011  | 12.0  | 62    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 48.542  | 2.9   | 63    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 49.191  | 1.6   | 65    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 48.690  | 2.6   | 63    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 50.299  | -0.6  | 65    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 50.085  | -0.2  | 65    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 48.536  | 2.9   | 64    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 47.869  | 4.3   | 64    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 50.735  | -1.5  | 65    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 48.777  | 2.4   | 64    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 47.987  | 4.0   | 64    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 45.506  | 9.0   | 63    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 46.496  | 7.0   | 61    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 45.960  | 8.1   | 60    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 44.695  | 10.6  | 60    | 0.00     |

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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) |
|------|------------------------|--------|--------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 45.719 | 8.6  | 60    | 0.00     |

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