

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY032525\  
 Data File : VY021641.D  
 Acq On : 25 Mar 2025 17:19  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 26 01:38:18 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y030425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 05 12:42:45 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    | 64    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 36.607  | 26.8#  | 48    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 45.616  | 8.8    | 61    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 46.441  | 7.1#   | 61    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 48.192  | 3.6    | 67    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 53.298  | -6.6   | 69    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 49.808  | 0.4    | 65    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 55.263  | -10.5  | 68    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 43.954  | 12.1   | 59    | -0.01    |
| 10 T  | Methyl Iodide               | 50.000  | 53.450  | -6.9   | 62    | -0.01    |
| 11 T  | Tert butyl alcohol          | 250.000 | 237.194 | 5.1    | 55    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 46.120  | 7.8#   | 60    | -0.01    |
| 13 T  | Acrolein                    | 250.000 | 11.215  | 95.5#  | 17    | -0.01    |
| 14 T  | Allyl chloride              | 50.000  | 49.712  | 0.6    | 63    | -0.01    |
| 15 T  | Acrylonitrile               | 250.000 | 284.572 | -13.8  | 68    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 207.025 | 17.2   | 45    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 41.784  | 16.4   | 53    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 94.420  | -88.8# | 108   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 54.730  | -9.5   | 67    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 53.922  | -7.8   | 75    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.604  | 0.8    | 64    | -0.01    |
| 22 T  | Diisopropyl ether           | 50.000  | 56.612  | -13.2  | 70    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 244.210 | 2.3    | 57    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 53.711  | -7.4   | 69    | -0.01    |
| 25 T  | 2-Butanone                  | 250.000 | 253.859 | -1.5   | 57    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 41.746  | 16.5   | 55    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 53.368  | -6.7   | 68    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 56.104  | -12.2  | 68    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 277.237 | -10.9  | 63    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 56.027  | -12.1# | 72    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 39.568  | 20.9   | 53    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 51.586  | -3.2   | 68    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 67.301  | -34.6# | 94    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 69    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 63.618  | -27.2# | 98    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 44.619  | 10.8   | 61    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 47.146  | 5.7    | 60    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 45.804  | 8.4    | 64    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 38.341  | 23.3   | 51    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.653  | 0.7    | 67    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 56.094  | -12.2  | 73    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 52.407  | -4.8   | 70    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 49.517  | 1.0    | 62    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 49.076  | 1.8    | 68    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.709  | -3.4#  | 70    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 53.545  | -7.1   | 70    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 53.451  | -6.9   | 72    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 51.729  | -3.5   | 63    | 0.00     |

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 ALS Vial : 15 Sample Multiplier: 1

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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 | 1114.050 | -11.4  | 67    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 60.097   | -20.2  | 91    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 272.676  | -9.1   | 65    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.419   | -0.8#  | 67    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.162   | -2.3   | 66    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.113   | -0.2   | 66    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 53.877   | -7.8   | 69    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 54.593   | -9.2   | 66    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 53.573   | -7.1   | 70    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 324.303  | -29.7# | 79    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 269.078  | -7.6   | 62    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 54.606   | -9.2   | 72    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 53.556   | -7.1   | 70    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 63.387   | -26.8# | 96    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 71    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 52.462   | -4.9   | 75    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 48.363   | 3.3    | 69    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 50.576   | -1.2   | 71    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 47.538   | 4.9#   | 66    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 95.874   | 4.1    | 65    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 49.727   | 0.5    | 68    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 51.386   | -2.8   | 69    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 52.218   | -4.4   | 69    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 76    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 43.786   | 12.4   | 65    | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 44.297   | 11.4   | 60    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 46.521   | 7.0    | 67    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 47.856   | 4.3    | 74    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 46.331   | 7.3    | 70    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 43.613   | 12.8   | 64    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 45.298   | 9.4    | 68    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 44.828   | 10.3   | 67    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 40.718   | 18.6   | 57    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 45.393   | 9.2    | 68    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 44.854   | 10.3   | 66    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 45.523   | 9.0    | 67    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 43.213   | 13.6   | 64    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 43.333   | 13.3   | 64    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 45.169   | 9.7    | 69    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 45.479   | 9.0    | 69    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 41.664   | 16.7   | 60    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 45.530   | 8.9    | 71    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 47.505   | 5.0    | 71    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 48.672   | 2.7    | 71    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 45.414   | 9.2    | 65    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 43.949   | 12.1   | 65    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 48.280   | 3.4    | 67    | 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 | 47.926 | 4.1  | 68    | 0.00     |

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