

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY031425\  
 Data File : VY021541.D  
 Acq On : 14 Mar 2025 15:47  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 15 02:03:29 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    | 85    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 42.788  | 14.4   | 74    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 48.868  | 2.3    | 87    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 49.891  | 0.2#   | 86    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 49.240  | 1.5    | 91    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 55.030  | -10.1  | 95    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 55.535  | -11.1  | 96    | -0.01    |
| 8 T   | Diethyl Ether               | 50.000  | 57.492  | -15.0  | 94    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 47.724  | 4.6    | 85    | -0.01    |
| 10 T  | Methyl Iodide               | 50.000  | 54.511  | -9.0   | 84    | -0.01    |
| 11 T  | Tert butyl alcohol          | 250.000 | 244.360 | 2.3    | 75    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 47.173  | 5.7#   | 81    | -0.01    |
| 13 T  | Acrolein                    | 250.000 | 44.494  | 82.2#  | 89    | -0.01    |
| 14 T  | Allyl chloride              | 50.000  | 49.446  | 1.1    | 83    | -0.01    |
| 15 T  | Acrylonitrile               | 250.000 | 268.333 | -7.3   | 85    | -0.01    |
| 16 T  | Acetone                     | 250.000 | 206.548 | 17.4   | 60    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 47.741  | 4.5    | 80    | -0.01    |
| 18 T  | Methyl Acetate              | 50.000  | 64.778  | -29.6# | 99    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 52.533  | -5.1   | 85    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 49.109  | 1.8    | 91    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 50.137  | -0.3   | 86    | -0.02    |
| 22 T  | Diisopropyl ether           | 50.000  | 53.903  | -7.8   | 88    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 258.226 | -3.3   | 80    | -0.01    |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 51.535  | -3.1   | 88    | -0.02    |
| 25 T  | 2-Butanone                  | 250.000 | 242.328 | 3.1    | 72    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 39.220  | 21.6   | 69    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 52.527  | -5.1   | 89    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 48.536  | 2.9    | 78    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 269.779 | -7.9   | 81    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 53.103  | -6.2#  | 91    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 45.038  | 9.9    | 80    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 50.525  | -1.0   | 88    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 55.251  | -10.5  | 103   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 89    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 53.041  | -6.1   | 105   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 47.588  | 4.8    | 84    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 49.388  | 1.2    | 80    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 47.927  | 4.1    | 86    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 46.601  | 6.8    | 80    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 50.107  | -0.2   | 87    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 49.656  | 0.7    | 83    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 50.847  | -1.7   | 88    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 50.687  | -1.4   | 82    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 48.818  | 2.4    | 87    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.469  | -2.9#  | 90    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 52.239  | -4.5   | 88    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 52.265  | -4.5   | 90    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 52.563  | -5.1   | 83    | 0.00     |

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 ALS Vial : 13 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 | 1071.443 | -7.1  | 83    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 51.744   | -3.5  | 101   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 267.904  | -7.2  | 83    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.198   | -0.4# | 86    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 50.151   | -0.3  | 84    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 49.159   | 1.7   | 83    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 52.719   | -5.4  | 87    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 54.244   | -8.5  | 84    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.825   | -3.7  | 88    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 287.939  | -15.2 | 91    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 266.492  | -6.6  | 78    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 52.391   | -4.8  | 89    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 52.322   | -4.6  | 88    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 53.597   | -7.2  | 104   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 90    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 55.225   | -10.5 | 100   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.776   | 0.4   | 89    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 50.774   | -1.5  | 91    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 49.546   | 0.9#  | 87    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 99.281   | 0.7   | 86    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.846   | -1.7  | 87    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 52.280   | -4.6  | 89    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.657   | -3.3  | 87    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 95    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 46.610   | 6.8   | 86    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 48.980   | 2.0   | 84    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 46.488   | 7.0   | 84    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 49.932   | 0.1   | 97    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 46.651   | 6.7   | 88    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 46.634   | 6.7   | 86    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 47.309   | 5.4   | 89    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 47.453   | 5.1   | 88    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 40.937   | 18.1  | 72    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 47.184   | 5.6   | 89    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 47.194   | 5.6   | 87    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 47.700   | 4.6   | 88    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 46.473   | 7.1   | 86    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 47.002   | 6.0   | 87    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 46.342   | 7.3   | 89    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 46.341   | 7.3   | 88    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 47.200   | 5.6   | 85    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 45.823   | 8.4   | 89    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 47.659   | 4.7   | 89    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 48.053   | 3.9   | 88    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 48.496   | 3.0   | 87    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 45.832   | 8.3   | 85    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 49.574   | 0.9   | 86    | 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 | 50.096 | -0.2 | 88    | 0.00     |

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