

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY030123\  
 Data File : VY012750.D  
 Acq On : 01 Mar 2023 16:56  
 Operator : KP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 02 02:05:45 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y022123S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 22 01:21:05 2023  
 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  | 43.315  | 13.4  | 80    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 39.951  | 20.1  | 69    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 42.431  | 15.1# | 76    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 45.467  | 9.1   | 84    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 42.518  | 15.0  | 81    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 46.893  | 6.2   | 84    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 43.614  | 12.8  | 74    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.297  | 1.4   | 89    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 46.337  | 7.3   | 80    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 184.128 | 26.3# | 70    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 46.486  | 7.0#  | 83    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 180.372 | 27.9# | 57    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 46.247  | 7.5   | 80    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 221.727 | 11.3  | 71    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 234.930 | 6.0   | 75    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 38.247  | 23.5  | 69    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 40.822  | 18.4  | 67    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 47.280  | 5.4   | 79    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 49.588  | 0.8   | 84    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.830  | 4.3   | 84    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 50.283  | -0.6  | 86    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 235.066 | 6.0   | 77    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 50.146  | -0.3  | 88    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 211.347 | 15.5  | 67    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 48.639  | 2.7   | 90    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 49.384  | 1.2   | 88    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 48.014  | 4.0   | 79    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 204.304 | 18.3  | 63    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 49.465  | 1.1#  | 87    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 41.887  | 16.2  | 79    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 48.760  | 2.5   | 88    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 43.123  | 13.8  | 75    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 85    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.300  | -0.6  | 85    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 46.933  | 6.1   | 84    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 38.148  | 23.7  | 60    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.173  | 1.7   | 87    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 47.975  | 4.0   | 83    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.600  | 0.8   | 86    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 40.155  | 19.7  | 72    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 46.545  | 6.9   | 80    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 42.556  | 14.9  | 68    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 50.183  | -0.4  | 89    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.700  | 0.6#  | 85    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 48.164  | 3.7   | 80    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 49.914  | 0.2   | 87    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 43.253  | 13.5  | 70    | 0.00     |

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 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 12 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 | 785.594 | 21.4  | 71    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 49.116  | 1.8   | 84    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 215.497 | 13.8  | 66    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 51.978  | -4.0# | 89    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 49.609  | 0.8   | 84    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.230  | -0.5  | 85    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 51.193  | -2.4  | 88    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 49.656  | 0.7   | 78    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 49.012  | 2.0   | 83    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 225.340 | 9.9   | 73    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 220.839 | 11.7  | 66    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 51.568  | -3.1  | 88    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 49.374  | 1.3   | 83    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 51.758  | -3.5  | 88    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 87    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 49.326  | 1.3   | 90    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 50.822  | -1.6  | 93    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 51.573  | -3.1  | 92    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 51.356  | -2.7# | 92    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 103.329 | -3.3  | 92    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 52.639  | -5.3  | 92    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.141  | -6.3  | 93    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 48.802  | 2.4   | 84    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 91    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 51.795  | -3.6  | 96    | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 42.541  | 14.9  | 71    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 45.069  | 9.9   | 81    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 47.850  | 4.3   | 86    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 50.138  | -0.3  | 93    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 50.791  | -1.6  | 95    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 49.840  | 0.3   | 94    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 50.995  | -2.0  | 96    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 44.940  | 10.1  | 79    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 49.731  | 0.5   | 94    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 51.619  | -3.2  | 95    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 50.960  | -1.9  | 94    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 51.820  | -3.6  | 97    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 51.808  | -3.6  | 97    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.514  | -1.0  | 95    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 48.764  | 2.5   | 93    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 51.776  | -3.6  | 97    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 51.860  | -3.7  | 101   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 49.737  | 0.5   | 93    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 40.736  | 18.5  | 72    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 48.956  | 2.1   | 92    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 49.224  | 1.6   | 97    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 46.089  | 7.8   | 79    | 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 | 47.647 | 4.7  | 89    | 0.00     |

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