

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY122223\  
 Data File : VY016829.D  
 Acq On : 22 Dec 2023 23:24  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 23 00:56:34 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y122023S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 21 01:49:45 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   | 82    | 0.02     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 44.179  | 11.6  | 88    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 49.687  | 0.6   | 98    | 0.01     |
| 4 C   | Vinyl Chloride              | 50.000  | 50.002  | -0.0# | 93    | 0.01     |
| 5 T   | Bromomethane                | 50.000  | 50.421  | -0.8  | 100   | 0.01     |
| 6 T   | Chloroethane                | 50.000  | 50.720  | -1.4  | 97    | 0.01     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 48.554  | 2.9   | 91    | 0.02     |
| 8 T   | Diethyl Ether               | 50.000  | 48.766  | 2.5   | 89    | 0.02     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.279  | 1.4   | 92    | 0.02     |
| 10 T  | Methyl Iodide               | 50.000  | 43.126  | 13.7  | 76    | 0.02     |
| 11 T  | Tert butyl alcohol          | 250.000 | 242.232 | 3.1   | 91    | 0.01     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 50.975  | -2.0# | 93    | 0.02     |
| 13 T  | Acrolein                    | 250.000 | 221.132 | 11.5  | 69    | 0.02     |
| 14 T  | Allyl chloride              | 50.000  | 54.190  | -8.4  | 97    | 0.02     |
| 15 T  | Acrylonitrile               | 250.000 | 261.948 | -4.8  | 90    | 0.02     |
| 16 T  | Acetone                     | 250.000 | 203.225 | 18.7  | 83    | 0.01     |
| 17 T  | Carbon Disulfide            | 50.000  | 52.154  | -4.3  | 92    | 0.02     |
| 18 T  | Methyl Acetate              | 50.000  | 57.440  | -14.9 | 90    | 0.02     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 49.288  | 1.4   | 88    | 0.03     |
| 20 T  | Methylene Chloride          | 50.000  | 46.883  | 6.2   | 91    | 0.02     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 52.584  | -5.2  | 95    | 0.02     |
| 22 T  | Diisopropyl ether           | 50.000  | 54.272  | -8.5  | 96    | 0.02     |
| 23 T  | Vinyl Acetate               | 250.000 | 252.125 | -0.9  | 90    | 0.02     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 53.270  | -6.5  | 97    | 0.03     |
| 25 T  | 2-Butanone                  | 250.000 | 232.367 | 7.1   | 89    | 0.02     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 50.295  | -0.6  | 94    | 0.02     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 52.513  | -5.0  | 94    | 0.02     |
| 28 T  | Bromochloromethane          | 50.000  | 56.020  | -12.0 | 83    | 0.02     |
| 29 T  | Tetrahydrofuran             | 250.000 | 269.961 | -8.0  | 90    | 0.02     |
| 30 C  | Chloroform                  | 50.000  | 52.643  | -5.3# | 97    | 0.02     |
| 31 T  | Cyclohexane                 | 50.000  | 49.643  | 0.7   | 94    | 0.02     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 51.333  | -2.7  | 95    | 0.02     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 51.584  | -3.2  | 74    | 0.02     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 87    | 0.01     |
| 35 S  | Dibromofluoromethane        | 50.000  | 49.292  | 1.4   | 74    | 0.02     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 49.287  | 1.4   | 95    | 0.02     |
| 37 T  | Ethyl Acetate               | 50.000  | 49.821  | 0.4   | 90    | 0.02     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 48.254  | 3.5   | 94    | 0.02     |
| 39 T  | Methylcyclohexane           | 50.000  | 50.038  | -0.1  | 94    | 0.02     |
| 40 TM | Benzene                     | 50.000  | 50.949  | -1.9  | 97    | 0.02     |
| 41 T  | Methacrylonitrile           | 50.000  | 52.988  | -6.0  | 87    | 0.02     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.697  | 0.6   | 92    | 0.01     |
| 43 T  | Isopropyl Acetate           | 50.000  | 48.758  | 2.5   | 91    | 0.02     |
| 44 TM | Trichloroethene             | 50.000  | 49.407  | 1.2   | 95    | 0.02     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.889  | -1.8# | 98    | 0.01     |
| 46 T  | Dibromomethane              | 50.000  | 48.745  | 2.5   | 92    | 0.02     |
| 47 T  | Bromodichloromethane        | 50.000  | 49.446  | 1.1   | 95    | 0.02     |
| 48 T  | Methyl methacrylate         | 50.000  | 50.473  | -0.9  | 91    | 0.02     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY122223\  
 Data File : VY016829.D  
 Acq On : 22 Dec 2023 23:24  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 23 00:56:34 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y122023S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 21 01:49:45 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) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| ----- |                             |          |          |       |       |          |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1063.538 | -6.4  | 97    | 0.01     |
| 50 S  | Toluene-d8                  | 50.000   | 50.325   | -0.7  | 75    | 0.01     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 249.656  | 0.1   | 90    | 0.01     |
| 52 CM | Toluene                     | 50.000   | 51.166   | -2.3# | 96    | 0.02     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 49.213   | 1.6   | 91    | 0.02     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 49.918   | 0.2   | 93    | 0.01     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 48.552   | 2.9   | 92    | 0.01     |
| 56 T  | Ethyl methacrylate          | 50.000   | 49.782   | 0.4   | 89    | 0.01     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 49.507   | 1.0   | 92    | 0.01     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 287.898  | -15.2 | 73    | 0.02     |
| 59 T  | 2-Hexanone                  | 250.000  | 225.010  | 10.0  | 86    | 0.01     |
| 60 T  | Dibromochloromethane        | 50.000   | 48.258   | 3.5   | 92    | 0.01     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 47.687   | 4.6   | 89    | 0.01     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 48.686   | 2.6   | 73    | 0.01     |
|       |                             |          |          |       |       |          |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 87    | 0.01     |
| 64 T  | Tetrachloroethene           | 50.000   | 49.242   | 1.5   | 96    | 0.02     |
| 65 PM | Chlorobenzene               | 50.000   | 49.766   | 0.5   | 96    | 0.01     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 47.864   | 4.3   | 93    | 0.01     |
| 67 C  | Ethyl Benzene               | 50.000   | 50.837   | -1.7# | 98    | 0.01     |
| 68 T  | m/p-Xylenes                 | 100.000  | 102.567  | -2.6  | 97    | 0.01     |
| 69 T  | o-Xylene                    | 50.000   | 51.319   | -2.6  | 96    | 0.01     |
| 70 T  | Styrene                     | 50.000   | 50.946   | -1.9  | 95    | 0.01     |
| 71 P  | Bromoform                   | 50.000   | 46.419   | 7.2   | 88    | 0.01     |
|       |                             |          |          |       |       |          |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 85    | 0.01     |
| 73 T  | Isopropylbenzene            | 50.000   | 52.593   | -5.2  | 98    | 0.01     |
| 74 T  | N-amyl acetate              | 50.000   | 47.774   | 4.5   | 88    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 48.765   | 2.5   | 92    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 48.278   | 3.4   | 102   | 0.01     |
| 77 T  | Bromobenzene                | 50.000   | 49.140   | 1.7   | 93    | 0.01     |
| 78 T  | n-propylbenzene             | 50.000   | 52.708   | -5.4  | 97    | 0.01     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 51.466   | -2.9  | 96    | 0.01     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.969   | -3.9  | 95    | 0.01     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 45.231   | 9.5   | 85    | 0.01     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.519   | -3.0  | 97    | 0.01     |
| 83 T  | tert-Butylbenzene           | 50.000   | 52.208   | -4.4  | 95    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 52.427   | -4.9  | 96    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 52.456   | -4.9  | 97    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 51.518   | -3.0  | 95    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.539   | 0.9   | 95    | 0.01     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.006   | 2.0   | 93    | 0.01     |
| 89 T  | n-Butylbenzene              | 50.000   | 52.530   | -5.1  | 95    | 0.01     |
| 90 T  | Hexachloroethane            | 50.000   | 50.613   | -1.2  | 98    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 49.539   | 0.9   | 93    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 44.152   | 11.7  | 83    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 45.414   | 9.2   | 83    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 47.160   | 5.7   | 88    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 39.113   | 21.8  | 77    | 0.01     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY122223\  
Data File : VY016829.D  
Acq On : 22 Dec 2023 23:24  
Operator : SY/MD  
Sample : VSTDCCC050  
Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
LabSampleId :  
VSTDCCC050

Quant Time: Dec 23 00:56:34 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y122023S.M  
Quant Title : SW846 8260  
QLast Update : Thu Dec 21 01:49:45 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) |
|------|------------------------|--------|--------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 44.672 | 10.7 | 80    | 0.01     |

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