

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY121522\  
 Data File : VY011861.D  
 Acq On : 15 Dec 2022 10:31  
 Operator : KP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 16 00:12:34 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y120922S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Dec 10 04:19:59 2022  
 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   | 87    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 44.844  | 10.3  | 83    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 48.525  | 3.0   | 85    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 48.166  | 3.7#  | 84    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 49.916  | 0.2   | 86    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 44.838  | 10.3  | 86    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 43.666  | 12.7  | 83    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 43.274  | 13.5  | 83    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 44.824  | 10.4  | 84    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 46.939  | 6.1   | 83    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 256.765 | -2.7  | 88    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 44.985  | 10.0# | 84    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 195.529 | 21.8  | 74    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 45.737  | 8.5   | 84    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 229.710 | 8.1   | 86    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 246.408 | 1.4   | 93    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 42.630  | 14.7  | 81    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 42.196  | 15.6  | 83    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 47.075  | 5.8   | 85    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 49.562  | 0.9   | 90    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 46.121  | 7.8   | 86    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 49.627  | 0.7   | 87    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 250.989 | -0.4  | 85    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 47.324  | 5.4   | 87    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 233.939 | 6.4   | 89    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 47.302  | 5.4   | 87    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 47.581  | 4.8   | 87    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 51.091  | -2.2  | 93    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 228.699 | 8.5   | 86    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 48.777  | 2.4#  | 88    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 47.100  | 5.8   | 82    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 48.163  | 3.7   | 88    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 46.988  | 6.0   | 89    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 87    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 52.713  | -5.4  | 93    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 48.283  | 3.4   | 86    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 45.696  | 8.6   | 82    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.579  | 0.8   | 87    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 46.681  | 6.6   | 82    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 48.885  | 2.2   | 87    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 53.857  | -7.7  | 93    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 48.823  | 2.4   | 88    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 46.609  | 6.8   | 85    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 48.340  | 3.3   | 88    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.086  | 1.8#  | 87    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 48.496  | 3.0   | 88    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 50.268  | -0.5  | 89    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 47.915  | 4.2   | 84    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY121522\  
 Data File : VY011861.D  
 Acq On : 15 Dec 2022 10:31  
 Operator : KP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 16 00:12:34 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y120922S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Dec 10 04:19:59 2022  
 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 | 948.255 | 5.2   | 86    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 49.152  | 1.7   | 89    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 245.577 | 1.8   | 87    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.185  | -0.4# | 88    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 49.230  | 1.5   | 88    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 49.129  | 1.7   | 87    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 50.522  | -1.0  | 91    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 49.702  | 0.6   | 86    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 49.307  | 1.4   | 88    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 243.167 | 2.7   | 85    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 251.077 | -0.4  | 88    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 50.590  | -1.2  | 91    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 48.042  | 3.9   | 86    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 52.937  | -5.9  | 96    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 87    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 48.997  | 2.0   | 89    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.263  | 1.5   | 89    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 50.966  | -1.9  | 90    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 50.133  | -0.3# | 88    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 100.163 | -0.2  | 89    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.599  | -1.2  | 89    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 51.473  | -2.9  | 90    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 49.980  | 0.0   | 90    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 89    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 50.460  | -0.9  | 89    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 47.639  | 4.7   | 86    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 47.853  | 4.3   | 89    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 50.662  | -1.3  | 94    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 49.438  | 1.1   | 89    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 50.080  | -0.2  | 89    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 49.693  | 0.6   | 90    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 50.526  | -1.1  | 90    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 47.508  | 5.0   | 86    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 48.691  | 2.6   | 89    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 51.996  | -4.0  | 91    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 50.732  | -1.5  | 91    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 50.503  | -1.0  | 89    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 51.202  | -2.4  | 91    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.363  | 1.3   | 90    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 48.950  | 2.1   | 91    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 50.612  | -1.2  | 90    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 49.402  | 1.2   | 92    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 48.876  | 2.2   | 90    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 45.705  | 8.6   | 86    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 49.129  | 1.7   | 89    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 48.855  | 2.3   | 90    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 48.908  | 2.2   | 87    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY121522\  
Data File : VY011861.D  
Acq On : 15 Dec 2022 10:31  
Operator : KP/MD  
Sample : VSTDCCC050  
Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
LabSampleId :  
VSTDCCC050

Quant Time: Dec 16 00:12:34 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y120922S.M  
Quant Title : SW846 8260  
QLast Update : Sat Dec 10 04:19:59 2022  
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 | 48.881 | 2.2  | 88    | 0.00     |

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