

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY090322\  
 Data File : VY010316.D  
 Acq On : 03 Sep 2022 13:01  
 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: Sep 05 04:14:19 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y090222S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 02 16:41:46 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    | 80    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 48.979  | 2.0    | 87    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 53.447  | -6.9   | 92    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 57.673  | -15.3# | 95    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 66.720  | -33.4# | 96    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 58.837  | -17.7  | 95    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 53.379  | -6.8   | 87    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 48.333  | 3.3    | 80    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 52.286  | -4.6   | 86    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 52.599  | -5.2   | 80    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 248.894 | 0.4    | 90    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 50.586  | -1.2#  | 83    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 233.055 | 6.8    | 75    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 46.374  | 7.3    | 75    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 232.226 | 7.1    | 77    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 296.782 | -18.7  | 84    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 47.539  | 4.9    | 80    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 43.652  | 12.7   | 74    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 47.667  | 4.7    | 78    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 48.180  | 3.6    | 83    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 50.187  | -0.4   | 82    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 48.417  | 3.2    | 78    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 240.634 | 3.7    | 78    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 49.116  | 1.8    | 79    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 250.016 | -0.0   | 80    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 51.646  | -3.3   | 83    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 50.782  | -1.6   | 81    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 46.433  | 7.1    | 70    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 226.923 | 9.2    | 75    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 50.838  | -1.7#  | 81    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 46.979  | 6.0    | 81    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 51.679  | -3.4   | 83    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 47.266  | 5.5    | 74    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 75    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 46.676  | 6.6    | 76    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 54.868  | -9.7   | 83    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 49.828  | 0.3    | 77    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 57.334  | -14.7  | 86    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 54.035  | -8.1   | 82    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 53.576  | -7.2   | 81    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 53.389  | -6.8   | 89    | 0.02     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 53.657  | -7.3   | 81    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 49.438  | 1.1    | 76    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 55.958  | -11.9  | 84    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 52.649  | -5.3#  | 80    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 53.601  | -7.2   | 82    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 54.001  | -8.0   | 81    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 50.469  | -0.9   | 76    | 0.00     |

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 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
 QLast Update : Fri Sep 02 16:41:46 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 | 996.739 | 0.3   | 79    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 53.498  | -7.0  | 74    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 254.985 | -2.0  | 77    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 54.490  | -9.0# | 82    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 52.651  | -5.3  | 79    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 52.509  | -5.0  | 79    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 53.109  | -6.2  | 81    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 50.094  | -0.2  | 75    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 52.922  | -5.8  | 80    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 220.373 | 11.9  | 74    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 264.611 | -5.8  | 78    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 54.955  | -9.9  | 83    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 53.265  | -6.5  | 81    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 46.765  | 6.5   | 74    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 75    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 57.253  | -14.5 | 87    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 54.893  | -9.8  | 83    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 55.683  | -11.4 | 84    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 54.831  | -9.7# | 83    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 111.086 | -11.1 | 83    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 54.536  | -9.1  | 83    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 55.202  | -10.4 | 83    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 54.873  | -9.7  | 83    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 77    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 54.073  | -8.1  | 84    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 49.732  | 0.5   | 78    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 49.942  | 0.1   | 79    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 49.678  | 0.6   | 76    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 53.407  | -6.8  | 84    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 54.086  | -8.2  | 83    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 52.951  | -5.9  | 82    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 53.358  | -6.7  | 83    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 49.063  | 1.9   | 76    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 53.008  | -6.0  | 82    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 54.659  | -9.3  | 85    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 54.019  | -8.0  | 84    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 54.844  | -9.7  | 85    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 55.855  | -11.7 | 85    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 54.983  | -10.0 | 85    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 54.707  | -9.4  | 85    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 54.975  | -10.0 | 85    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 54.087  | -8.2  | 84    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 54.343  | -8.7  | 85    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 46.650  | 6.7   | 77    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 53.918  | -7.8  | 86    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 56.087  | -12.2 | 90    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 50.350  | -0.7  | 81    | 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 | 53.397 | -6.8 | 85    | 0.00     |

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