

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD050522\  
 Data File : VD072821.D  
 Acq On : 05 May 2022 20:32  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 06 05:53:39 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D050222S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 03 08:33:49 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    | 96    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 49.271  | 1.5    | 96    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 59.422  | -18.8  | 120   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 59.980  | -20.0# | 113   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 62.689  | -25.4# | 119   | -0.01    |
| 6 T   | Chloroethane                | 50.000  | 60.296  | -20.6  | 120   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 55.501  | -11.0  | 108   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 57.368  | -14.7  | 113   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 53.115  | -6.2   | 104   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 45.786  | 8.4    | 84    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 251.605 | -0.6   | 114   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 53.378  | -6.8#  | 104   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 277.328 | -10.9  | 107   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 62.552  | -25.1# | 119   | -0.01    |
| 15 T  | Acrylonitrile               | 250.000 | 278.406 | -11.4  | 108   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 275.488 | -10.2  | 92    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 52.351  | -4.7   | 102   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 57.066  | -14.1  | 111   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 62.524  | -25.0# | 117   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 56.970  | -13.9  | 108   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 55.845  | -11.7  | 106   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 61.328  | -22.7  | 114   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 315.411 | -26.2# | 116   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 58.534  | -17.1  | 115   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 284.822 | -13.9  | 107   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 55.851  | -11.7  | 107   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 55.828  | -11.7  | 108   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 58.518  | -17.0  | 108   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 295.249 | -18.1  | 112   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 57.681  | -15.4# | 114   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 53.500  | -7.0   | 102   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 58.367  | -16.7  | 113   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 57.218  | -14.4  | 115   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 103   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 53.886  | -7.8   | 111   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 55.287  | -10.6  | 108   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 56.549  | -13.1  | 110   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 55.568  | -11.1  | 110   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 53.279  | -6.6   | 104   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 54.471  | -8.9   | 109   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 52.011  | -4.0   | 95    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 59.337  | -18.7  | 120   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 59.963  | -19.9  | 117   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 52.245  | -4.5   | 105   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 54.636  | -9.3#  | 109   | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 54.668  | -9.3   | 110   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 56.107  | -12.2  | 112   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 58.228  | -16.5  | 110   | 0.00     |

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 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 06 05:53:39 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D050222S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 03 08:33:49 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 | 1036.040 | -3.6   | 106   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 54.309   | -8.6   | 110   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 295.071  | -18.0  | 114   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 54.870   | -9.7#  | 106   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 56.186   | -12.4  | 110   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 56.153   | -12.3  | 112   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 52.745   | -5.5   | 105   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 60.516   | -21.0  | 111   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 54.689   | -9.4   | 110   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 295.379  | -18.2  | 108   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 297.397  | -19.0  | 108   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 53.466   | -6.9   | 108   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 52.740   | -5.5   | 105   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 54.416   | -8.8   | 109   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 100   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 50.997   | -2.0   | 102   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 52.927   | -5.9   | 104   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 54.653   | -9.3   | 107   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 57.507   | -15.0# | 109   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 111.705  | -11.7  | 104   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 57.154   | -14.3  | 107   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 57.850   | -15.7  | 108   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.678   | -3.4   | 102   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 93    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 61.736   | -23.5  | 109   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 66.996   | -34.0# | 118   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 56.547   | -13.1  | 107   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 57.776   | -15.6  | 101   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 56.754   | -13.5  | 103   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 60.653   | -21.3  | 106   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 60.397   | -20.8  | 110   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 61.871   | -23.7  | 108   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 58.547   | -17.1  | 103   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 60.137   | -20.3  | 108   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 60.260   | -20.5  | 106   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 61.886   | -23.8  | 109   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 59.971   | -19.9  | 105   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 60.964   | -21.9  | 106   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 56.492   | -13.0  | 105   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 55.843   | -11.7  | 104   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 61.151   | -22.3  | 106   | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 56.989   | -14.0  | 105   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 55.435   | -10.9  | 101   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 59.304   | -18.6  | 111   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 56.709   | -13.4  | 100   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 53.134   | -6.3   | 99    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 62.039   | -24.1  | 106   | 0.00     |

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Operator : VA/SY  
Sample : VSTDCCC050  
Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
LabSampleId :  
VSTDCCC050

Quant Time: May 06 05:53:39 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D050222S.M  
Quant Title : SW846 8260  
QLast Update : Tue May 03 08:33:49 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 | 56.506 | -13.0 | 99    | 0.00     |

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