

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD051322\  
 Data File : VD072986.D  
 Acq On : 13 May 2022 13:07  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00 G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 13 14:43:08 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   | 89    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 43.208  | 13.6  | 78    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 40.980  | 18.0  | 76    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 43.824  | 12.4# | 77    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 49.761  | 0.5   | 88    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 45.375  | 9.3   | 83    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 48.163  | 3.7   | 87    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 45.766  | 8.5   | 83    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 50.126  | -0.3  | 91    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 45.169  | 9.7   | 77    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 189.977 | 24.0  | 79    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 46.976  | 6.0#  | 85    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 88.177  | 64.7# | 36    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 48.191  | 3.6   | 85    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 224.412 | 10.2  | 80    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 214.269 | 14.3  | 67    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 44.335  | 11.3  | 80    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 44.103  | 11.8  | 79    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 48.313  | 3.4   | 83    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 48.254  | 3.5   | 87    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.463  | 1.1   | 87    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 49.702  | 0.6   | 85    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 236.460 | 5.4   | 80    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 48.838  | 2.3   | 89    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 214.567 | 14.2  | 75    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 49.021  | 2.0   | 87    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 50.335  | -0.7  | 90    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 48.643  | 2.7   | 83    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 231.668 | 7.3   | 81    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 50.049  | -0.1# | 92    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 46.441  | 7.1   | 82    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 50.474  | -0.9  | 90    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 45.638  | 8.7   | 85    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 88    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 53.831  | -7.7  | 95    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 52.816  | -5.6  | 88    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 47.563  | 4.9   | 79    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 52.920  | -5.8  | 90    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 50.184  | -0.4  | 84    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 52.447  | -4.9  | 90    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 47.080  | 5.8   | 74    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.739  | 0.5   | 86    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 47.471  | 5.1   | 79    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 52.545  | -5.1  | 90    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.902  | -3.8# | 89    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 51.004  | -2.0  | 88    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 51.108  | -2.2  | 87    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 49.993  | 0.0   | 81    | 0.00     |

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 Sample : VSTDCCC050  
 Misc : 5.00 G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 13 14:43:08 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 | 981.980 | 1.8    | 86    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 53.806  | -7.6   | 94    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 244.906 | 2.0    | 81    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 55.183  | -10.4# | 91    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 50.463  | -0.9   | 85    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 51.400  | -2.8   | 87    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 50.878  | -1.8   | 87    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 52.077  | -4.2   | 82    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 50.868  | -1.7   | 88    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 239.959 | 4.0    | 75    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 243.940 | 2.4    | 76    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 51.897  | -3.8   | 90    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 49.494  | 1.0    | 84    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 53.732  | -7.5   | 92    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0    | 86    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 51.277  | -2.6   | 89    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 53.350  | -6.7   | 91    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 54.045  | -8.1   | 91    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 55.674  | -11.3# | 91    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 113.671 | -13.7  | 91    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 57.017  | -14.0  | 92    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 57.000  | -14.0  | 91    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.438  | -2.9   | 88    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0    | 87    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 56.444  | -12.9  | 94    | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 48.809  | 2.4    | 81    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 50.521  | -1.0   | 90    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 51.940  | -3.9   | 86    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 53.677  | -7.4   | 92    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 56.146  | -12.3  | 93    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 54.615  | -9.2   | 93    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 56.431  | -12.9  | 93    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 50.912  | -1.8   | 85    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 54.934  | -9.9   | 93    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 57.470  | -14.9  | 95    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 56.483  | -13.0  | 94    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 57.237  | -14.5  | 95    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 56.778  | -13.6  | 93    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 54.264  | -8.5   | 95    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 54.271  | -8.5   | 96    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 57.036  | -14.1  | 93    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 54.976  | -10.0  | 96    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 54.298  | -8.6   | 94    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 49.818  | 0.4    | 88    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 53.529  | -7.1   | 89    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 52.966  | -5.9   | 93    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 53.669  | -7.3   | 87    | 0.00     |

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Sample : VSTDCCC050  
Misc : 5.00 G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
LabSampleId :  
VSTDCCC050

Quant Time: May 13 14:43:08 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 | 53.482 | -7.0 | 89    | 0.00     |

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