

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD100421\  
 Data File : VD070545.D  
 Acq On : 04 Oct 2021 12:17  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 05 04:58:58 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D090821S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 09 03:07:09 2021  
 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   | 84    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 47.226  | 5.5   | 85    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 44.524  | 11.0  | 81    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 47.236  | 5.5#  | 92    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 47.069  | 5.9   | 85    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 50.988  | -2.0  | 93    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 50.405  | -0.8  | 92    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 49.289  | 1.4   | 83    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.881  | 0.2   | 90    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 45.667  | 8.7   | 75    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 106.171 | 57.5# | 52    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.315  | 1.4#  | 87    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 121.245 | 51.5# | 43    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 48.394  | 3.2   | 87    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 239.345 | 4.3   | 86    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 295.083 | -18.0 | 111   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 41.474  | 17.1  | 76    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 48.408  | 3.2   | 88    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 51.545  | -3.1  | 85    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 50.092  | -0.2  | 83    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 48.630  | 2.7   | 85    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 49.451  | 1.1   | 86    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 253.716 | -1.5  | 88    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 46.172  | 7.7   | 85    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 252.174 | -0.9  | 93    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 51.550  | -3.1  | 96    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 49.353  | 1.3   | 86    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 45.567  | 8.9   | 84    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 249.208 | 0.3   | 90    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 46.243  | 7.5#  | 85    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 48.682  | 2.6   | 89    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 50.550  | -1.1  | 92    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 42.399  | 15.2  | 81    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 83    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 46.598  | 6.8   | 80    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 53.431  | -6.9  | 89    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 49.434  | 1.1   | 88    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 55.530  | -11.1 | 93    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 55.904  | -11.8 | 87    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 51.430  | -2.9  | 85    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 50.965  | -1.9  | 92    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 48.576  | 2.8   | 85    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 49.690  | 0.6   | 88    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 52.436  | -4.9  | 85    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.181  | 1.6#  | 84    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 48.640  | 2.7   | 84    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 49.690  | 0.6   | 85    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 53.480  | -7.0  | 89    | 0.00     |

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 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 | 1163.121 | -16.3  | 89    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.273   | -0.5   | 81    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 263.815  | -5.5   | 89    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 54.914   | -9.8#  | 86    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 53.073   | -6.1   | 88    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 51.799   | -3.6   | 88    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 50.094   | -0.2   | 83    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 55.767   | -11.5  | 86    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.056   | -2.1   | 85    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 286.421  | -14.6  | 94    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 285.186  | -14.1  | 94    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 50.267   | -0.5   | 82    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 50.126   | -0.3   | 83    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 49.726   | 0.5    | 82    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 79    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 55.294   | -10.6  | 85    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 53.435   | -6.9   | 84    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 53.441   | -6.9   | 85    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 58.034   | -16.1# | 87    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 118.274  | -18.3  | 86    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 59.551   | -19.1  | 86    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 59.467   | -18.9  | 84    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 53.252   | -6.5   | 83    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 82    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 60.056   | -20.1  | 90    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 52.780   | -5.6   | 88    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 49.567   | 0.9    | 85    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 46.891   | 6.2    | 78    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 53.177   | -6.4   | 84    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 58.281   | -16.6  | 89    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 56.609   | -13.2  | 88    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 59.403   | -18.8  | 88    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 58.610   | -17.2  | 96    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 55.887   | -11.8  | 86    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 61.919   | -23.8  | 92    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 59.917   | -19.8  | 88    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 60.223   | -20.4  | 91    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 60.706   | -21.4  | 89    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 53.918   | -7.8   | 85    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 52.199   | -4.4   | 84    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 59.859   | -19.7  | 91    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 51.857   | -3.7   | 88    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 51.552   | -3.1   | 82    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 50.183   | -0.4   | 88    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 54.520   | -9.0   | 86    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 56.339   | -12.7  | 97    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 56.851   | -13.7  | 95    | 0.00     |

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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 | 53.346 | -6.7 | 94    | 0.00     |

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