

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD091322\  
 Data File : VD074278.D  
 Acq On : 13 Sep 2022 21:06  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 14 01:59:35 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D090922S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Sep 10 04:45:19 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    | 67    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 50.972  | -1.9   | 72    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 50.826  | -1.7   | 80    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 59.449  | -18.9# | 86    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 61.249  | -22.5  | 91    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 61.581  | -23.2  | 95    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 50.645  | -1.3   | 75    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 53.542  | -7.1   | 76    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 51.579  | -3.2   | 75    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 52.769  | -5.5   | 72    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 242.094 | 3.2    | 72    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.824  | 0.4#   | 72    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 217.211 | 13.1   | 59    | 0.01     |
| 14 T  | Allyl chloride              | 50.000  | 50.391  | -0.8   | 73    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 284.238 | -13.7  | 78    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 244.744 | 2.1    | 59    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 46.457  | 7.1    | 69    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 50.842  | -1.7   | 76    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 52.904  | -5.8   | 74    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 73.081  | -46.2# | 98    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 50.124  | -0.2   | 72    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 53.721  | -7.4   | 75    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 278.537 | -11.4  | 74    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 53.025  | -6.0   | 75    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 261.684 | -4.7   | 72    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 47.366  | 5.3    | 68    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 53.074  | -6.1   | 76    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 58.055  | -16.1  | 75    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 278.281 | -11.3  | 77    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 54.102  | -8.2#  | 77    | 0.01     |
| 31 T  | Cyclohexane                 | 50.000  | 46.422  | 7.2    | 71    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 52.373  | -4.7   | 74    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 57.245  | -14.5  | 78    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 68    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 55.630  | -11.3  | 77    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 50.190  | -0.4   | 74    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 57.513  | -15.0  | 83    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 52.581  | -5.2   | 74    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 47.965  | 4.1    | 71    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 52.748  | -5.5   | 76    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 56.701  | -13.4  | 71    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 54.428  | -8.9   | 79    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 53.039  | -6.1   | 75    | 0.01     |
| 44 TM | Trichloroethene             | 50.000  | 50.907  | -1.8   | 73    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 52.297  | -4.6#  | 75    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 54.632  | -9.3   | 78    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 54.756  | -9.5   | 78    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 54.647  | -9.3   | 77    | 0.00     |

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 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
 QLast Update : Sat Sep 10 04:45:19 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 | 1093.382 | -9.3   | 70    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 56.539   | -13.1  | 74    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 284.288  | -13.7  | 79    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 51.797   | -3.6#  | 74    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 52.164   | -4.3   | 72    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 52.280   | -4.6   | 75    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 55.371   | -10.7  | 77    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 54.096   | -8.2   | 74    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 54.078   | -8.2   | 77    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 203.215  | 18.7   | 66    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 282.832  | -13.1  | 76    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 54.754   | -9.5   | 77    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 54.561   | -9.1   | 77    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 50.345   | -0.7   | 73    | 0.00     |
|       |                             |          |          |        |       |          |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 68    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 49.489   | 1.0    | 73    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 52.908   | -5.8   | 75    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 55.535   | -11.1  | 79    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 51.543   | -3.1#  | 74    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 104.226  | -4.2   | 74    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 52.060   | -4.1   | 74    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 54.431   | -8.9   | 76    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 55.402   | -10.8  | 76    | 0.00     |
|       |                             |          |          |        |       |          |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 68    | 0.01     |
| 73 T  | Isopropylbenzene            | 50.000   | 52.424   | -4.8   | 75    | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 54.011   | -8.0   | 74    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 56.923   | -13.8  | 80    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 63.931   | -27.9# | 82    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 53.655   | -7.3   | 77    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 52.049   | -4.1   | 75    | 0.01     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 52.448   | -4.9   | 75    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 52.527   | -5.1   | 76    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 50.552   | -1.1   | 70    | 0.01     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 52.376   | -4.8   | 75    | 0.01     |
| 83 T  | tert-Butylbenzene           | 50.000   | 52.482   | -5.0   | 75    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 52.365   | -4.7   | 75    | 0.01     |
| 85 T  | sec-Butylbenzene            | 50.000   | 52.109   | -4.2   | 75    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 52.391   | -4.8   | 75    | 0.01     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 52.317   | -4.6   | 76    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 52.798   | -5.6   | 76    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 51.253   | -2.5   | 73    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 54.272   | -8.5   | 77    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 52.590   | -5.2   | 75    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 56.453   | -12.9  | 77    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 49.987   | 0.0    | 73    | 0.01     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 51.069   | -2.1   | 74    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 54.381   | -8.8   | 77    | 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 | 51.516 | -3.0 | 74    | 0.00     |

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