

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD071723\  
 Data File : VD076745.D  
 Acq On : 17 Jul 2023 10:19  
 Operator : KP/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 18 01:21:51 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D071423S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 17 08:07:52 2023  
 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   | 122   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 47.677  | 4.6   | 116   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 42.535  | 14.9  | 102   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 46.807  | 6.4#  | 113   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 44.456  | 11.1  | 114   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 46.359  | 7.3   | 112   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 48.534  | 2.9   | 122   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 48.944  | 2.1   | 109   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.208  | 1.6   | 122   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 49.514  | 1.0   | 112   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 233.536 | 6.6   | 113   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 48.243  | 3.5#  | 118   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 220.469 | 11.8  | 118   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 46.827  | 6.3   | 110   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 225.606 | 9.8   | 105   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 264.654 | -5.9  | 125   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 48.339  | 3.3   | 113   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 44.029  | 11.9  | 103   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 47.394  | 5.2   | 109   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 41.791  | 16.4  | 102   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 46.376  | 7.2   | 108   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 48.736  | 2.5   | 113   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 237.571 | 5.0   | 108   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 48.818  | 2.4   | 115   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 252.820 | -1.1  | 115   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 51.647  | -3.3  | 126   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 49.683  | 0.6   | 118   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 43.433  | 13.1  | 112   | -0.01    |
| 29 T  | Tetrahydrofuran             | 250.000 | 240.021 | 4.0   | 114   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 50.889  | -1.8# | 125   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 49.805  | 0.4   | 131   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 52.789  | -5.6  | 126   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 43.249  | 13.5  | 112   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 115   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 47.130  | 5.7   | 117   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 55.323  | -10.6 | 127   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 48.620  | 2.8   | 103   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 59.126  | -18.3 | 136   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 56.120  | -12.2 | 128   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 53.567  | -7.1  | 123   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 51.533  | -3.1  | 119   | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 52.457  | -4.9  | 117   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 51.024  | -2.0  | 113   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 55.174  | -10.3 | 125   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 53.280  | -6.6# | 114   | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 53.631  | -7.3  | 115   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 53.477  | -7.0  | 117   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 48.843  | 2.3   | 104   | 0.00     |

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 Sample : VSTDCCC050  
 Misc : 5.00G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 18 01:21:51 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D071423S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 17 08:07:52 2023  
 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 | 991.059 | 0.9   | 113   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 45.714  | 8.6   | 112   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 252.684 | -1.1  | 107   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 53.919  | -7.8# | 119   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 53.561  | -7.1  | 114   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 53.486  | -7.0  | 116   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 52.584  | -5.2  | 114   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 52.356  | -4.7  | 109   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.862  | -3.7  | 115   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 235.116 | 6.0   | 107   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 266.781 | -6.7  | 113   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 53.737  | -7.5  | 116   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 52.040  | -4.1  | 110   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 46.146  | 7.7   | 110   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 107   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 57.113  | -14.2 | 125   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 53.874  | -7.7  | 116   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 54.638  | -9.3  | 119   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 54.483  | -9.0# | 117   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 111.009 | -11.0 | 119   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 54.546  | -9.1  | 116   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 54.418  | -8.8  | 115   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 55.923  | -11.8 | 117   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 104   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 56.715  | -13.4 | 119   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 53.576  | -7.2  | 112   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 52.239  | -4.5  | 108   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 45.620  | 8.8   | 93    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 55.665  | -11.3 | 115   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 57.391  | -14.8 | 120   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 56.227  | -12.5 | 117   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 57.707  | -15.4 | 119   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 55.582  | -11.2 | 110   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 57.022  | -14.0 | 117   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 58.176  | -16.4 | 119   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 56.691  | -13.4 | 116   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 57.382  | -14.8 | 120   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 57.678  | -15.4 | 119   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 56.231  | -12.5 | 116   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 55.837  | -11.7 | 117   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 56.063  | -12.1 | 118   | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 58.927  | -17.9 | 121   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 55.092  | -10.2 | 114   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 49.761  | 0.5   | 109   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 56.692  | -13.4 | 118   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 56.174  | -12.3 | 119   | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 54.448  | -8.9  | 110   | 0.00     |

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Sample : VSTDCCC050  
Misc : 5.00G/5.0ml/MSVOA\_D/SOIL  
ALS Vial : 2 Sample Multiplier: 1

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MSVOA\_D  
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Quant Time: Jul 18 01:21:51 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D071423S.M  
Quant Title : SW846 8260  
QLast Update : Mon Jul 17 08:07:52 2023  
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 | 56.161 | -12.3 | 118   | 0.00     |

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