

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\YY113022\  
 Data File : VY011630.D  
 Acq On : 30 Nov 2022 09:24  
 Operator : KP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 01 05:01:50 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y111822S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 19 22:37:14 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   | 95    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 50.001  | -0.0  | 97    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 50.452  | -0.9  | 93    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 43.066  | 13.9# | 88    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 45.286  | 9.4   | 86    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 42.047  | 15.9  | 86    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 50.217  | -0.4  | 104   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 51.691  | -3.4  | 104   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 52.799  | -5.6  | 106   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 51.953  | -3.9  | 94    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 250.273 | -0.1  | 104   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 51.847  | -3.7# | 102   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 199.531 | 20.2  | 122   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 53.141  | -6.3  | 101   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 263.419 | -5.4  | 105   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 274.799 | -9.9  | 109   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 48.965  | 2.1   | 96    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 51.094  | -2.2  | 105   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 55.197  | -10.4 | 106   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 51.607  | -3.2  | 94    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 52.674  | -5.3  | 101   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 55.115  | -10.2 | 102   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 283.514 | -13.4 | 102   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 52.704  | -5.4  | 104   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 261.844 | -4.7  | 104   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 52.993  | -6.0  | 104   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 52.880  | -5.8  | 101   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 54.082  | -8.2  | 104   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 262.832 | -5.1  | 103   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 53.749  | -7.5# | 105   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 50.933  | -1.9  | 100   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 53.132  | -6.3  | 105   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 51.302  | -2.6  | 111   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 95    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 55.123  | -10.2 | 114   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 53.526  | -7.1  | 102   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 51.827  | -3.7  | 102   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 53.697  | -7.4  | 105   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 54.608  | -9.2  | 100   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 53.179  | -6.4  | 101   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 60.782  | -21.6 | 124   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 52.348  | -4.7  | 103   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 52.190  | -4.4  | 101   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 52.060  | -4.1  | 101   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 54.192  | -8.4# | 103   | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 52.938  | -5.9  | 104   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 53.837  | -7.7  | 104   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 54.324  | -8.6  | 102   | 0.00     |

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 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y111822S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 19 22:37:14 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 | 1093.252 | -9.3  | 106   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 52.204   | -4.4  | 108   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 268.823  | -7.5  | 102   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 53.833   | -7.7# | 101   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 54.034   | -8.1  | 103   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 54.004   | -8.0  | 103   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 53.309   | -6.6  | 104   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 56.580   | -13.2 | 105   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 54.003   | -8.0  | 103   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 256.248  | -2.5  | 94    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 274.773  | -9.9  | 103   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 53.925   | -7.8  | 104   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 52.536   | -5.1  | 102   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 54.051   | -8.1  | 109   | 0.00     |
|       |                             |          |          |       |       |          |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 94    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 53.508   | -7.0  | 101   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 53.396   | -6.8  | 100   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 54.417   | -8.8  | 100   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 54.670   | -9.3# | 100   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 110.199  | -10.2 | 99    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 55.916   | -11.8 | 99    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 55.976   | -12.0 | 99    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 53.367   | -6.7  | 100   | 0.00     |
|       |                             |          |          |       |       |          |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 93    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 55.587   | -11.2 | 99    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 53.371   | -6.7  | 98    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 52.406   | -4.8  | 101   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 49.055   | 1.9   | 85    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 53.250   | -6.5  | 99    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 55.724   | -11.4 | 99    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 54.763   | -9.5  | 99    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 56.250   | -12.5 | 100   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 54.118   | -8.2  | 104   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 54.056   | -8.1  | 98    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 56.133   | -12.3 | 99    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 55.765   | -11.5 | 99    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 55.682   | -11.4 | 99    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 55.656   | -11.3 | 98    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 52.779   | -5.6  | 98    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 51.451   | -2.9  | 97    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 56.294   | -12.6 | 98    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 52.677   | -5.4  | 101   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 52.749   | -5.5  | 98    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 53.359   | -6.7  | 103   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 55.927   | -11.9 | 104   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 55.551   | -11.1 | 106   | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 51.901   | -3.8  | 107   | 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 | 55.496 | -11.0 | 105   | 0.00     |

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