

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\Y122922\  
 Data File : VY012034.D  
 Acq On : 29 Dec 2022 17:35  
 Operator : KP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 30 04:01:19 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y122022S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 20 12:37:37 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   | 80    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 50.003  | -0.0  | 72    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 43.163  | 13.7  | 64    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 45.281  | 9.4#  | 67    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 45.437  | 9.1   | 71    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 46.396  | 7.2   | 70    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 49.670  | 0.7   | 75    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 53.663  | -7.3  | 82    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.265  | 1.5   | 76    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 47.653  | 4.7   | 68    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 285.369 | -14.1 | 89    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 47.275  | 5.5#  | 72    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 211.270 | 15.5  | 73    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 46.165  | 7.7   | 70    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 296.934 | -18.8 | 89    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 222.575 | 11.0  | 65    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 39.779  | 20.4  | 60    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 56.045  | -12.1 | 87    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 59.779  | -19.6 | 89    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 47.923  | 4.2   | 73    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 48.055  | 3.9   | 72    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 51.470  | -2.9  | 77    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 279.703 | -11.9 | 81    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 48.849  | 2.3   | 76    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 268.227 | -7.3  | 76    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 49.891  | 0.2   | 78    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 51.212  | -2.4  | 78    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 46.558  | 6.9   | 76    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 294.687 | -17.9 | 85    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 52.637  | -5.3# | 81    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 42.311  | 15.4  | 66    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 51.374  | -2.7  | 80    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 55.128  | -10.3 | 87    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 80    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 53.262  | -6.5  | 83    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 46.348  | 7.3   | 71    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 57.676  | -15.4 | 89    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 50.730  | -1.5  | 78    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 46.328  | 7.3   | 69    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 48.494  | 3.0   | 75    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 51.659  | -3.3  | 74    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 55.132  | -10.3 | 86    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 58.258  | -16.5 | 87    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 50.427  | -0.9  | 79    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.188  | 1.6#  | 77    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 55.312  | -10.6 | 85    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 54.395  | -8.8  | 83    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 57.399  | -14.8 | 86    | 0.00     |

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 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
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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 | 1336.418 | -33.6# | 96    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 49.701   | 0.6    | 77    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 303.359  | -21.3  | 89    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.973   | -1.9#  | 78    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 56.231   | -12.5  | 85    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 53.429   | -6.9   | 81    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 56.110   | -12.2  | 88    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 61.685   | -23.4  | 90    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 56.094   | -12.2  | 84    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 278.327  | -11.3  | 89    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 296.397  | -18.6  | 83    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 57.854   | -15.7  | 87    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 56.503   | -13.0  | 86    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 54.548   | -9.1   | 85    | 0.00     |
|       |                             |          |          |        |       |          |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 83    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 51.487   | -3.0   | 82    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 50.043   | -0.1   | 80    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 52.777   | -5.6   | 84    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 49.994   | 0.0#   | 78    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 101.278  | -1.3   | 79    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 52.062   | -4.1   | 81    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.499   | -7.0   | 83    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 59.389   | -18.8  | 94    | 0.00     |
|       |                             |          |          |        |       |          |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 89    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 48.647   | 2.7    | 81    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 55.688   | -11.4  | 90    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 52.659   | -5.3   | 90    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 42.778   | 14.4   | 72    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 50.334   | -0.7   | 86    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 47.930   | 4.1    | 80    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 48.303   | 3.4    | 82    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 49.122   | 1.8    | 82    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 54.648   | -9.3   | 91    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 48.778   | 2.4    | 82    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 49.771   | 0.5    | 82    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 49.943   | 0.1    | 83    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 48.461   | 3.1    | 81    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 49.930   | 0.1    | 82    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.117   | 1.8    | 84    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.502   | 1.0    | 85    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 48.800   | 2.4    | 81    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 48.216   | 3.6    | 82    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 51.584   | -3.2   | 88    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 61.132   | -22.3  | 101   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 58.181   | -16.4  | 94    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 52.464   | -4.9   | 89    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 59.796   | -19.6  | 106   | 0.00     |

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MSVOA\_Y  
LabSampleId :  
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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 | 61.144 | -22.3 | 98    | 0.00     |

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