

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY031524\  
 Data File : VY017685.D  
 Acq On : 15 Mar 2024 20:06  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 16 00:21:38 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y022324S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Feb 24 04:41:20 2024  
 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    | 94    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 44.669  | 10.7   | 86    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 45.532  | 8.9    | 87    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 47.207  | 5.6#   | 89    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 50.253  | -0.5   | 98    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 51.969  | -3.9   | 96    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 48.756  | 2.5    | 91    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 56.408  | -12.8  | 100   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 53.531  | -7.1   | 99    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 56.405  | -12.8  | 97    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 228.868 | 8.5    | 94    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 53.750  | -7.5#  | 99    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 120.984 | 51.6#  | 45    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 54.506  | -9.0   | 97    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 291.892 | -16.8  | 102   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 245.516 | 1.8    | 88    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 51.161  | -2.3   | 94    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 69.200  | -38.4# | 117   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 57.333  | -14.7  | 99    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 58.448  | -16.9  | 101   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 55.959  | -11.9  | 101   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 57.179  | -14.4  | 99    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 280.009 | -12.0  | 96    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 55.788  | -11.6  | 101   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 272.425 | -9.0   | 94    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 51.614  | -3.2   | 95    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 57.771  | -15.5  | 103   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 44.887  | 10.2   | 97    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 296.432 | -18.6  | 100   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 56.687  | -13.4# | 103   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 50.278  | -0.6   | 94    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 54.576  | -9.2   | 100   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 42.621  | 14.8   | 81    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 95    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 44.579  | 10.8   | 86    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 53.629  | -7.3   | 98    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 53.621  | -7.2   | 96    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 55.545  | -11.1  | 100   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 54.450  | -8.9   | 96    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 55.803  | -11.6  | 101   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 61.458  | -22.9  | 103   | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 55.301  | -10.6  | 99    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 56.800  | -13.6  | 98    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 55.276  | -10.6  | 101   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 56.213  | -12.4# | 102   | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 57.313  | -14.6  | 103   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 57.632  | -15.3  | 103   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 56.153  | -12.3  | 95    | 0.00     |

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 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 26 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 | 1156.863 | -15.7  | 100   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 45.426   | 9.1    | 83    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 291.509  | -16.6  | 100   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 56.174   | -12.3# | 101   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 57.067   | -14.1  | 99    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 56.460   | -12.9  | 100   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 57.603   | -15.2  | 104   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 54.719   | -9.4   | 99    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 57.795   | -15.6  | 102   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 221.099  | 11.6   | 90    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 288.229  | -15.3  | 96    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 59.972   | -19.9  | 105   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 58.653   | -17.3  | 104   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 46.674   | 6.7    | 83    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 97    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 55.795   | -11.6  | 104   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 56.480   | -13.0  | 103   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 57.031   | -14.1  | 104   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 57.295   | -14.6# | 102   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 115.031  | -15.0  | 102   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 58.753   | -17.5  | 102   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 59.239   | -18.5  | 102   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 61.442   | -22.9  | 109   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 95    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 56.789   | -13.6  | 101   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 55.294   | -10.6  | 94    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 58.678   | -17.4  | 104   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 63.453   | -26.9# | 118   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 57.604   | -15.2  | 105   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 56.670   | -13.3  | 101   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 55.334   | -10.7  | 100   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 57.371   | -14.7  | 101   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 54.441   | -8.9   | 96    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 54.571   | -9.1   | 99    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 58.214   | -16.4  | 103   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 57.266   | -14.5  | 101   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 57.027   | -14.1  | 100   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 57.517   | -15.0  | 100   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 55.722   | -11.4  | 101   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 56.075   | -12.2  | 101   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 55.462   | -10.9  | 96    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 56.430   | -12.9  | 103   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 56.942   | -13.9  | 101   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 54.287   | -8.6   | 99    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 57.253   | -14.5  | 98    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 55.311   | -10.6  | 102   | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 53.075   | -6.2   | 99    | 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 | 56.566 | -13.1 | 97    | 0.00     |

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