

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY122722\  
 Data File : VY012010.D  
 Acq On : 27 Dec 2022 11:29  
 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 27 12:11:49 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  | 85    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 51.987  | -4.0 | 80    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 45.404  | 9.2  | 72    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 47.930  | 4.1# | 76    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 48.674  | 2.7  | 81    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 46.849  | 6.3  | 76    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 50.460  | -0.9 | 82    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 47.819  | 4.4  | 78    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 48.944  | 2.1  | 80    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 48.295  | 3.4  | 74    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 198.208 | 20.7 | 70    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 47.941  | 4.1# | 78    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 210.222 | 15.9 | 78    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 45.049  | 9.9  | 73    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 236.723 | 5.3  | 76    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 266.695 | -6.7 | 84    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 42.060  | 15.9 | 68    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 43.101  | 13.8 | 72    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 51.079  | -2.2 | 81    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 47.855  | 4.3  | 78    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.104  | 5.8  | 76    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 47.131  | 5.7  | 75    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 238.021 | 4.8  | 73    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 46.765  | 6.5  | 77    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 257.619 | -3.0 | 78    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 48.683  | 2.6  | 81    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 49.019  | 2.0  | 80    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 41.833  | 16.3 | 73    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 230.567 | 7.8  | 71    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 49.078  | 1.8# | 81    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 42.662  | 14.7 | 71    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 49.658  | 0.7  | 82    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 50.155  | -0.3 | 84    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0  | 84    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 52.295  | -4.6 | 85    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 47.795  | 4.4  | 76    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 45.217  | 9.6  | 73    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 50.751  | -1.5 | 82    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 47.428  | 5.1  | 74    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 47.954  | 4.1  | 77    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 51.035  | -2.1 | 76    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.336  | 1.3  | 80    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 47.869  | 4.3  | 75    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 48.483  | 3.0  | 79    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 46.401  | 7.2# | 76    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 48.361  | 3.3  | 78    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 50.048  | -0.1 | 80    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 47.093  | 5.8  | 74    | 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) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| ----- |                             |          |          |       |       |          |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1047.757 | -4.8  | 79    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 51.377   | -2.8  | 83    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 243.857  | 2.5   | 75    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 49.498   | 1.0#  | 79    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 49.017   | 2.0   | 78    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 48.789   | 2.4   | 77    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 47.635   | 4.7   | 78    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 50.932   | -1.9  | 78    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 48.798   | 2.4   | 77    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 239.789  | 4.1   | 80    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 269.346  | -7.7  | 79    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 50.499   | -1.0  | 79    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 48.600   | 2.8   | 77    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 52.053   | -4.1  | 85    | 0.00     |
|       |                             |          |          |       |       |          |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 82    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 49.149   | 1.7   | 77    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.887   | 0.2   | 79    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 51.222   | -2.4  | 81    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 50.861   | -1.7# | 79    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 101.803  | -1.8  | 79    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 51.584   | -3.2  | 80    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 51.516   | -3.0  | 79    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.583   | -3.2  | 81    | 0.00     |
|       |                             |          |          |       |       |          |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 81    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 53.508   | -7.0  | 81    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 50.304   | -0.6  | 74    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 50.552   | -1.1  | 78    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 43.854   | 12.3  | 67    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 52.266   | -4.5  | 81    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 52.448   | -4.9  | 79    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 52.345   | -4.7  | 80    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 53.445   | -6.9  | 80    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 50.197   | -0.4  | 76    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.490   | -3.0  | 78    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 55.433   | -10.9 | 83    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 53.001   | -6.0  | 80    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 52.938   | -5.9  | 80    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 53.309   | -6.6  | 80    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.999   | -2.0  | 79    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 50.666   | -1.3  | 79    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 52.346   | -4.7  | 78    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 50.385   | -0.8  | 78    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 50.956   | -1.9  | 79    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 50.936   | -1.9  | 77    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 49.672   | 0.7   | 73    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 49.300   | 1.4   | 76    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 44.973   | 10.1  | 71    | 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 | 50.034 | -0.1 | 73    | 0.00     |

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