

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082523\  
 Data File : VY015356.D  
 Acq On : 25 Aug 2023 20:35  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 25 23:48:22 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081423S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 14 12:43:26 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    | 65    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 43.456  | 13.1   | 57    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 45.519  | 9.0    | 58    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 43.731  | 12.5#  | 59    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 59.098  | -18.2  | 71    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 50.007  | -0.0   | 65    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 49.668  | 0.7    | 67    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 53.176  | -6.4   | 71    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 50.021  | -0.0   | 67    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 40.102  | 19.8   | 49    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 327.059 | -30.8# | 84    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 47.645  | 4.7#   | 63    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 139.057 | 44.4#  | 45    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 47.693  | 4.6    | 62    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 295.680 | -18.3  | 77    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 247.656 | 0.9    | 62    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 38.823  | 22.4   | 49    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 59.384  | -18.8  | 77    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 55.355  | -10.7  | 72    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 71.000  | -42.0# | 88    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 48.475  | 3.0    | 64    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 53.518  | -7.0   | 70    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 256.368 | -2.5   | 66    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 52.752  | -5.5   | 69    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 279.928 | -12.0  | 73    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 44.598  | 10.8   | 61    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 52.463  | -4.9   | 69    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 52.058  | -4.1   | 69    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 288.574 | -15.4  | 75    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 55.024  | -10.0# | 73    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 47.515  | 5.0    | 60    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 52.651  | -5.3   | 69    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 64.025  | -28.1# | 82    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 66    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 61.959  | -23.9  | 80    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 48.458  | 3.1    | 65    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 53.941  | -7.9   | 74    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.172  | 1.7    | 67    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 45.106  | 9.8    | 61    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 50.457  | -0.9   | 68    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 50.280  | -0.6   | 63    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 54.282  | -8.6   | 73    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 53.631  | -7.3   | 72    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 51.677  | -3.4   | 70    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.943  | -3.9#  | 70    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 53.979  | -8.0   | 71    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 55.087  | -10.2  | 73    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 56.518  | -13.0  | 74    | 0.00     |

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Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

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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 | 1173.634 | -17.4 | 77    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 58.380   | -16.8 | 76    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 293.060  | -17.2 | 77    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.764   | -1.5# | 68    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 50.557   | -1.1  | 67    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.820   | -1.6  | 68    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 54.753   | -9.5  | 74    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 54.705   | -9.4  | 71    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 54.917   | -9.8  | 74    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 264.530  | -5.8  | 73    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 290.066  | -16.0 | 76    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 55.458   | -10.9 | 73    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 53.546   | -7.1  | 72    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 59.907   | -19.8 | 79    | 0.00     |
|       |                             |          |          |       |       |          |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 68    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 56.218   | -12.4 | 78    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 50.603   | -1.2  | 70    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 53.635   | -7.3  | 74    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 48.992   | 2.0#  | 68    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 98.200   | 1.8   | 68    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 49.940   | 0.1   | 69    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 51.176   | -2.4  | 70    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 53.275   | -6.5  | 73    | 0.00     |
|       |                             |          |          |       |       |          |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 71    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 47.420   | 5.2   | 69    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 49.118   | 1.8   | 69    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 51.570   | -3.1  | 74    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 56.041   | -12.1 | 83    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 48.962   | 2.1   | 72    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 47.498   | 5.0   | 70    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 48.538   | 2.9   | 71    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 48.335   | 3.3   | 70    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 46.004   | 8.0   | 64    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 49.220   | 1.6   | 71    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 47.917   | 4.2   | 70    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 48.760   | 2.5   | 70    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 48.649   | 2.7   | 71    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 48.847   | 2.3   | 70    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.328   | 1.3   | 72    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.065   | 1.9   | 71    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 48.048   | 3.9   | 69    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 46.889   | 6.2   | 69    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 50.830   | -1.7  | 73    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 52.549   | -5.1  | 75    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 49.120   | 1.8   | 71    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 48.084   | 3.8   | 71    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 52.431   | -4.9  | 77    | 0.00     |

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ALS Vial : 27 Sample Multiplier: 1

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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 | 51.080 | -2.2 | 74    | 0.00     |

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