

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY090123\  
 Data File : VY015405.D  
 Acq On : 01 Sep 2023 10:22  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 01 23:25:59 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y082923S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 31 20:01:47 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  | 103   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 44.391  | 11.2 | 86    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 49.028  | 1.9  | 94    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 46.443  | 7.1# | 90    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 48.045  | 3.9  | 94    | 0.01     |
| 6 T   | Chloroethane                | 50.000  | 49.956  | 0.1  | 98    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 44.752  | 10.5 | 88    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 49.510  | 1.0  | 94    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 44.844  | 10.3 | 88    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 51.156  | -2.3 | 94    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 193.517 | 22.6 | 81    | 0.02     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 46.948  | 6.1# | 92    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 224.923 | 10.0 | 78    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 49.761  | 0.5  | 95    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 244.228 | 2.3  | 89    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 262.400 | -5.0 | 86    | 0.01     |
| 17 T  | Carbon Disulfide            | 50.000  | 47.248  | 5.5  | 92    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 48.339  | 3.3  | 88    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 49.346  | 1.3  | 92    | 0.01     |
| 20 T  | Methylene Chloride          | 50.000  | 40.390  | 19.2 | 84    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.716  | 4.6  | 93    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 50.424  | -0.8 | 97    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 254.699 | -1.9 | 95    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 48.911  | 2.2  | 97    | 0.01     |
| 25 T  | 2-Butanone                  | 250.000 | 254.292 | -1.7 | 88    | 0.01     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 49.063  | 1.9  | 97    | 0.01     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 49.090  | 1.8  | 95    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 47.516  | 5.0  | 96    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 240.885 | 3.6  | 87    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 48.747  | 2.5# | 96    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 43.537  | 12.9 | 89    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 47.735  | 4.5  | 93    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 46.981  | 6.0  | 96    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0  | 105   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 48.121  | 3.8  | 99    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 45.357  | 9.3  | 92    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 48.485  | 3.0  | 91    | 0.01     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 45.631  | 8.7  | 92    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 43.474  | 13.1 | 87    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 47.563  | 4.9  | 95    | 0.01     |
| 41 T  | Methacrylonitrile           | 50.000  | 40.711  | 18.6 | 76    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 46.215  | 7.6  | 91    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 48.698  | 2.6  | 92    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 47.397  | 5.2  | 96    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 48.382  | 3.2# | 96    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 48.115  | 3.8  | 95    | 0.01     |
| 47 T  | Bromodichloromethane        | 50.000  | 48.378  | 3.2  | 95    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 48.159  | 3.7  | 90    | 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 | 869.532 | 13.0  | 82    | 0.02     |
| 50 S  | Toluene-d8                  | 50.000   | 45.876  | 8.2   | 97    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 241.864 | 3.3   | 89    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 47.161  | 5.7#  | 93    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 49.111  | 1.8   | 94    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 49.223  | 1.6   | 96    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 47.712  | 4.6   | 93    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 49.474  | 1.1   | 93    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 48.346  | 3.3   | 95    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 167.260 | 33.1# | 68    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 248.027 | 0.8   | 89    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 49.734  | 0.5   | 97    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 47.966  | 4.1   | 93    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 46.684  | 6.6   | 97    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 104   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 49.839  | 0.3   | 99    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 46.905  | 6.2   | 94    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 49.009  | 2.0   | 98    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 46.740  | 6.5#  | 94    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 93.309  | 6.7   | 94    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 47.248  | 5.5   | 94    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 48.641  | 2.7   | 95    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 49.902  | 0.2   | 93    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 101   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 46.818  | 6.4   | 93    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 50.677  | -1.4  | 92    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 47.466  | 5.1   | 91    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 53.192  | -6.4  | 100   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 47.926  | 4.1   | 95    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 47.296  | 5.4   | 92    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 47.435  | 5.1   | 93    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 47.032  | 5.9   | 92    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 50.840  | -1.7  | 95    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 47.751  | 4.5   | 93    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 45.582  | 8.8   | 89    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 47.417  | 5.2   | 92    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 46.480  | 7.0   | 91    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 46.638  | 6.7   | 90    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 47.389  | 5.2   | 93    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 47.098  | 5.8   | 93    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 46.335  | 7.3   | 90    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 48.570  | 2.9   | 95    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 47.695  | 4.6   | 92    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 47.532  | 4.9   | 87    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 46.827  | 6.3   | 89    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 43.099  | 13.8  | 87    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 49.124  | 1.8   | 89    | 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 | 47.328 | 5.3  | 92    | 0.00     |

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