

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY061523\  
 Data File : VY014178.D  
 Acq On : 15 Jun 2023 10:12  
 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: Jun 16 02:03:36 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y060923S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 09 18:07:13 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    | 82    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 42.890  | 14.2   | 73    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 44.453  | 11.1   | 78    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 44.954  | 10.1#  | 76    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 42.778  | 14.4   | 81    | -0.01    |
| 6 T   | Chloroethane                | 50.000  | 43.619  | 12.8   | 78    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 46.167  | 7.7    | 78    | -0.01    |
| 8 T   | Diethyl Ether               | 50.000  | 47.243  | 5.5    | 82    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 46.921  | 6.2    | 77    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 45.573  | 8.9    | 74    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 292.652 | -17.1  | 104   | -0.02    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 46.280  | 7.4#   | 79    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 333.618 | -33.4# | 109   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 47.505  | 5.0    | 80    | -0.01    |
| 15 T  | Acrylonitrile               | 250.000 | 261.417 | -4.6   | 90    | -0.01    |
| 16 T  | Acetone                     | 250.000 | 277.347 | -10.9  | 108   | -0.01    |
| 17 T  | Carbon Disulfide            | 50.000  | 47.137  | 5.7    | 81    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 48.801  | 2.4    | 89    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 50.166  | -0.3   | 82    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 52.660  | -5.3   | 86    | -0.01    |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.189  | 1.6    | 81    | -0.01    |
| 22 T  | Diisopropyl ether           | 50.000  | 51.743  | -3.5   | 86    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 260.407 | -4.2   | 87    | -0.01    |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 49.596  | 0.8    | 84    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 287.130 | -14.9  | 106   | -0.01    |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 49.287  | 1.4    | 84    | -0.01    |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 51.209  | -2.4   | 88    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 50.260  | -0.5   | 90    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 273.696 | -9.5   | 98    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 50.684  | -1.4#  | 86    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 47.417  | 5.2    | 82    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 49.027  | 1.9    | 83    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 43.695  | 12.6   | 82    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 82    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.572  | -1.1   | 87    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 48.313  | 3.4    | 80    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 53.887  | -7.8   | 91    | -0.01    |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.125  | 1.8    | 80    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 47.671  | 4.7    | 76    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 48.931  | 2.1    | 82    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 60.792  | -21.6  | 116   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.640  | 0.7    | 84    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 48.891  | 2.2    | 82    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 47.981  | 4.0    | 79    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 48.377  | 3.2#   | 81    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 48.667  | 2.7    | 83    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 49.845  | 0.3    | 83    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 50.042  | -0.1   | 84    | 0.00     |

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 ALS Vial : 2 Sample Multiplier: 1

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 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 | 1091.701 | -9.2 | 90    | -0.02    |
| 50 S  | Toluene-d8                  | 50.000   | 43.724   | 12.6 | 79    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 258.204  | -3.3 | 88    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 49.204   | 1.6# | 81    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 49.220   | 1.6  | 82    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.156   | -0.3 | 84    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 49.655   | 0.7  | 83    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 50.555   | -1.1 | 81    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 49.210   | 1.6  | 82    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 270.344  | -8.1 | 93    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 269.260  | -7.7 | 93    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 51.389   | -2.8 | 86    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 50.186   | -0.4 | 85    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 49.817   | 0.4  | 88    | 0.00     |
|       |                             |          |          |      |       |          |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0  | 88    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 45.782   | 8.4  | 81    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 47.480   | 5.0  | 84    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 47.448   | 5.1  | 83    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 48.348   | 3.3# | 83    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 97.605   | 2.4  | 84    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 49.186   | 1.6  | 84    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 49.685   | 0.6  | 85    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 48.489   | 3.0  | 86    | 0.00     |
|       |                             |          |          |      |       |          |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0  | 91    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 46.972   | 6.1  | 81    | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 48.799   | 2.4  | 87    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 46.961   | 6.1  | 86    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 49.830   | 0.3  | 85    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 46.595   | 6.8  | 83    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 47.064   | 5.9  | 82    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 46.837   | 6.3  | 84    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 47.238   | 5.5  | 82    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 49.243   | 1.5  | 88    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 46.625   | 6.8  | 83    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 45.548   | 8.9  | 79    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 48.457   | 3.1  | 85    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 46.546   | 6.9  | 80    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 46.655   | 6.7  | 81    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 46.872   | 6.3  | 84    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 45.986   | 8.0  | 84    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 47.222   | 5.6  | 82    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 45.946   | 8.1  | 83    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 47.386   | 5.2  | 86    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 44.829   | 10.3 | 89    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 46.163   | 7.7  | 84    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 44.528   | 10.9 | 79    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 45.203   | 9.6  | 83    | 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 | 44.950 | 10.1 | 84    | 0.00     |

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