

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY020824\  
 Data File : VY017304.D  
 Acq On : 08 Feb 2024 11:36  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Feb 09 00:10:23 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y020124S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 02 00:56:04 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    | 77    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 40.602  | 18.8   | 74    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 65.661  | -31.3# | 113   | -0.01    |
| 4 C   | Vinyl Chloride              | 50.000  | 62.204  | -24.4# | 107   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 65.266  | -30.5# | 115   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 65.825  | -31.7# | 111   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 55.227  | -10.5  | 94    | -0.01    |
| 8 T   | Diethyl Ether               | 50.000  | 51.628  | -3.3   | 83    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 50.254  | -0.5   | 84    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 48.284  | 3.4    | 77    | -0.01    |
| 11 T  | Tert butyl alcohol          | 250.000 | 206.109 | 17.6   | 72    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 50.055  | -0.1#  | 83    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 188.021 | 24.8   | 62    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 52.332  | -4.7   | 85    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 248.261 | 0.7    | 81    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 236.137 | 5.5    | 84    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 46.238  | 7.5    | 76    | -0.01    |
| 18 T  | Methyl Acetate              | 50.000  | 55.985  | -12.0  | 82    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 52.919  | -5.8   | 85    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 55.552  | -11.1  | 88    | -0.02    |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 51.908  | -3.8   | 85    | -0.01    |
| 22 T  | Diisopropyl ether           | 50.000  | 56.016  | -12.0  | 89    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 269.205 | -7.7   | 87    | -0.01    |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 53.227  | -6.5   | 88    | -0.01    |
| 25 T  | 2-Butanone                  | 250.000 | 241.585 | 3.4    | 83    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 55.407  | -10.8  | 91    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 53.318  | -6.6   | 87    | -0.01    |
| 28 T  | Bromochloromethane          | 50.000  | 49.082  | 1.8    | 71    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 248.242 | 0.7    | 80    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 54.235  | -8.5#  | 89    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 50.755  | -1.5   | 86    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 54.039  | -8.1   | 88    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 50.785  | -1.6   | 76    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 77    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 48.965  | 2.1    | 73    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 53.691  | -7.4   | 88    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 48.674  | 2.7    | 83    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 53.346  | -6.7   | 89    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 53.268  | -6.5   | 86    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 53.359  | -6.7   | 88    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 53.848  | -7.7   | 91    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 52.896  | -5.8   | 87    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 52.787  | -5.6   | 87    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 51.714  | -3.4   | 84    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 54.035  | -8.1#  | 89    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 53.259  | -6.5   | 87    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 53.618  | -7.2   | 89    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 53.026  | -6.1   | 86    | 0.00     |

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 ALS Vial : 2 Sample Multiplier: 1

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 MSVOA\_Y  
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 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 | 1002.514 | -0.3   | 81    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.343   | -0.7   | 73    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 269.674  | -7.9   | 87    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 54.663   | -9.3#  | 88    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 54.723   | -9.4   | 89    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 53.697   | -7.4   | 87    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 53.742   | -7.5   | 87    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 50.685   | -1.4   | 87    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 53.476   | -7.0   | 87    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 259.442  | -3.8   | 79    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 271.952  | -8.8   | 89    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 52.729   | -5.5   | 87    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 52.009   | -4.0   | 87    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 50.921   | -1.8   | 76    | 0.00     |
|       |                             |          |          |        |       |          |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 78    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 50.352   | -0.7   | 86    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 51.975   | -4.0   | 87    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 52.430   | -4.9   | 88    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 55.626   | -11.3# | 91    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 110.735  | -10.7  | 90    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 55.602   | -11.2  | 90    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 56.950   | -13.9  | 90    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.151   | -2.3   | 86    | 0.00     |
|       |                             |          |          |        |       |          |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 80    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 54.902   | -9.8   | 92    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 55.707   | -11.4  | 93    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 50.864   | -1.7   | 88    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 58.989   | -18.0  | 105   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 50.468   | -0.9   | 87    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 56.044   | -12.1  | 93    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 54.293   | -8.6   | 92    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 55.593   | -11.2  | 93    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 51.885   | -3.8   | 89    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 55.000   | -10.0  | 93    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 55.875   | -11.8  | 93    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 55.883   | -11.8  | 93    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 56.392   | -12.8  | 94    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 56.654   | -13.3  | 94    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 52.600   | -5.2   | 91    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 52.522   | -5.0   | 92    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 58.708   | -17.4  | 98    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 53.587   | -7.2   | 93    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 52.701   | -5.4   | 91    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 51.983   | -4.0   | 92    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 54.248   | -8.5   | 93    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 52.207   | -4.4   | 94    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 49.605   | 0.8    | 93    | 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 | 51.917 | -3.8 | 92    | 0.00     |

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