

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\YY122123\  
 Data File : VY016776.D  
 Acq On : 21 Dec 2023 23:34  
 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: Dec 22 00:47:23 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y122023S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 21 01:49:45 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   | 88    | 0.02     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 42.119  | 15.8  | 90    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 48.518  | 3.0   | 103   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 48.166  | 3.7#  | 97    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 51.033  | -2.1  | 109   | 0.01     |
| 6 T   | Chloroethane                | 50.000  | 49.007  | 2.0   | 101   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 46.492  | 7.0   | 94    | 0.01     |
| 8 T   | Diethyl Ether               | 50.000  | 51.145  | -2.3  | 101   | 0.01     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 47.235  | 5.5   | 95    | 0.02     |
| 10 T  | Methyl Iodide               | 50.000  | 49.372  | 1.3   | 94    | 0.02     |
| 11 T  | Tert butyl alcohol          | 250.000 | 217.680 | 12.9  | 88    | 0.03     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.256  | 1.5#  | 97    | 0.01     |
| 13 T  | Acrolein                    | 250.000 | 213.980 | 14.4  | 72    | 0.02     |
| 14 T  | Allyl chloride              | 50.000  | 53.170  | -6.3  | 103   | 0.02     |
| 15 T  | Acrylonitrile               | 250.000 | 265.162 | -6.1  | 98    | 0.02     |
| 16 T  | Acetone                     | 250.000 | 203.116 | 18.8  | 90    | 0.02     |
| 17 T  | Carbon Disulfide            | 50.000  | 50.788  | -1.6  | 97    | 0.02     |
| 18 T  | Methyl Acetate              | 50.000  | 59.617  | -19.2 | 101   | 0.01     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 52.196  | -4.4  | 101   | 0.02     |
| 20 T  | Methylene Chloride          | 50.000  | 50.787  | -1.6  | 105   | 0.02     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 52.456  | -4.9  | 102   | 0.02     |
| 22 T  | Diisopropyl ether           | 50.000  | 55.604  | -11.2 | 107   | 0.02     |
| 23 T  | Vinyl Acetate               | 250.000 | 246.681 | 1.3   | 95    | 0.02     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 53.702  | -7.4  | 105   | 0.02     |
| 25 T  | 2-Butanone                  | 250.000 | 227.515 | 9.0   | 94    | 0.02     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 48.133  | 3.7   | 97    | 0.02     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 53.636  | -7.3  | 104   | 0.02     |
| 28 T  | Bromochloromethane          | 50.000  | 54.414  | -8.8  | 87    | 0.01     |
| 29 T  | Tetrahydrofuran             | 250.000 | 271.224 | -8.5  | 98    | 0.02     |
| 30 C  | Chloroform                  | 50.000  | 53.631  | -7.3# | 106   | 0.02     |
| 31 T  | Cyclohexane                 | 50.000  | 47.035  | 5.9   | 96    | 0.01     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 50.960  | -1.9  | 102   | 0.02     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 55.091  | -10.2 | 85    | 0.01     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 94    | 0.01     |
| 35 S  | Dibromofluoromethane        | 50.000  | 52.594  | -5.2  | 85    | 0.02     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 48.308  | 3.4   | 100   | 0.02     |
| 37 T  | Ethyl Acetate               | 50.000  | 48.716  | 2.6   | 95    | 0.02     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 47.203  | 5.6   | 99    | 0.01     |
| 39 T  | Methylcyclohexane           | 50.000  | 47.981  | 4.0   | 97    | 0.02     |
| 40 TM | Benzene                     | 50.000  | 51.190  | -2.4  | 105   | 0.01     |
| 41 T  | Methacrylonitrile           | 50.000  | 49.606  | 0.8   | 88    | 0.02     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 51.729  | -3.5  | 104   | 0.01     |
| 43 T  | Isopropyl Acetate           | 50.000  | 49.354  | 1.3   | 99    | 0.02     |
| 44 TM | Trichloroethene             | 50.000  | 49.639  | 0.7   | 103   | 0.02     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.809  | -1.6# | 105   | 0.01     |
| 46 T  | Dibromomethane              | 50.000  | 51.132  | -2.3  | 104   | 0.02     |
| 47 T  | Bromodichloromethane        | 50.000  | 51.205  | -2.4  | 106   | 0.01     |
| 48 T  | Methyl methacrylate         | 50.000  | 49.464  | 1.1   | 96    | 0.02     |

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Instrument :  
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 LabSampleId :  
 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 | 1065.457 | -6.5  | 104   | 0.01     |
| 50 S  | Toluene-d8                  | 50.000   | 53.546   | -7.1  | 86    | 0.01     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 255.253  | -2.1  | 99    | 0.01     |
| 52 CM | Toluene                     | 50.000   | 51.754   | -3.5# | 104   | 0.02     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.040   | -2.1  | 101   | 0.02     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 51.368   | -2.7  | 103   | 0.01     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 50.523   | -1.0  | 103   | 0.01     |
| 56 T  | Ethyl methacrylate          | 50.000   | 52.521   | -5.0  | 101   | 0.01     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.196   | -2.4  | 103   | 0.01     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 295.255  | -18.1 | 81    | 0.02     |
| 59 T  | 2-Hexanone                  | 250.000  | 228.836  | 8.5   | 94    | 0.01     |
| 60 T  | Dibromochloromethane        | 50.000   | 50.940   | -1.9  | 104   | 0.01     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 51.256   | -2.5  | 103   | 0.01     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 52.706   | -5.4  | 85    | 0.01     |
|       |                             |          |          |       |       |          |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 94    | 0.01     |
| 64 T  | Tetrachloroethene           | 50.000   | 49.460   | 1.1   | 105   | 0.02     |
| 65 PM | Chlorobenzene               | 50.000   | 50.452   | -0.9  | 106   | 0.01     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 50.314   | -0.6  | 106   | 0.01     |
| 67 C  | Ethyl Benzene               | 50.000   | 50.465   | -0.9# | 105   | 0.01     |
| 68 T  | m/p-Xylenes                 | 100.000  | 101.952  | -2.0  | 105   | 0.01     |
| 69 T  | o-Xylene                    | 50.000   | 52.117   | -4.2  | 106   | 0.01     |
| 70 T  | Styrene                     | 50.000   | 51.938   | -3.9  | 105   | 0.01     |
| 71 P  | Bromoform                   | 50.000   | 50.372   | -0.7  | 103   | 0.01     |
|       |                             |          |          |       |       |          |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 93    | 0.01     |
| 73 T  | Isopropylbenzene            | 50.000   | 51.435   | -2.9  | 105   | 0.01     |
| 74 T  | N-amyl acetate              | 50.000   | 50.371   | -0.7  | 101   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 49.100   | 1.8   | 102   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 48.947   | 2.1   | 113   | 0.01     |
| 77 T  | Bromobenzene                | 50.000   | 50.522   | -1.0  | 104   | 0.01     |
| 78 T  | n-propylbenzene             | 50.000   | 51.050   | -2.1  | 103   | 0.01     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 51.027   | -2.1  | 104   | 0.01     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.917   | -3.8  | 104   | 0.01     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 47.379   | 5.2   | 98    | 0.01     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.216   | -2.4  | 105   | 0.01     |
| 83 T  | tert-Butylbenzene           | 50.000   | 51.385   | -2.8  | 103   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 52.114   | -4.2  | 104   | 0.01     |
| 85 T  | sec-Butylbenzene            | 50.000   | 50.727   | -1.5  | 103   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 50.798   | -1.6  | 102   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.137   | -0.3  | 105   | 0.01     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.731   | 0.5   | 103   | 0.01     |
| 89 T  | n-Butylbenzene              | 50.000   | 51.415   | -2.8  | 102   | 0.01     |
| 90 T  | Hexachloroethane            | 50.000   | 50.544   | -1.1  | 107   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 51.203   | -2.4  | 105   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 48.164   | 3.7   | 100   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 50.093   | -0.2  | 100   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 48.976   | 2.0   | 100   | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 45.354   | 9.3   | 99    | 0.01     |

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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 | 49.797 | 0.4  | 97    | 0.00     |

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