

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY081123\  
 Data File : VY015045.D  
 Acq On : 11 Aug 2023 08:57  
 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: Aug 11 14:25:11 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y080723S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 08 07:44:56 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   | 94    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 43.956  | 12.1  | 89    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 47.209  | 5.6   | 100   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 46.038  | 7.9#  | 96    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 56.545  | -13.1 | 103   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 50.860  | -1.7  | 103   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 47.791  | 4.4   | 97    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 51.487  | -3.0  | 102   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 48.336  | 3.3   | 96    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 50.810  | -1.6  | 94    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 170.137 | 31.9# | 99    | 0.01     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.149  | 1.7#  | 98    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 258.805 | -3.5  | 110   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 50.512  | -1.0  | 99    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 268.576 | -7.4  | 105   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 280.312 | -12.1 | 109   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 45.363  | 9.3   | 94    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 57.889  | -15.8 | 115   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 52.409  | -4.8  | 102   | 0.01     |
| 20 T  | Methylene Chloride          | 50.000  | 39.857  | 20.3  | 84    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.784  | 0.4   | 100   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 51.934  | -3.9  | 100   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 243.327 | 2.7   | 93    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 51.604  | -3.2  | 101   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 272.037 | -8.8  | 108   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 49.316  | 1.4   | 100   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 52.062  | -4.1  | 102   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 48.120  | 3.8   | 93    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 266.118 | -6.4  | 107   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 52.808  | -5.6# | 101   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 48.648  | 2.7   | 94    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 53.065  | -6.1  | 103   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 51.531  | -3.1  | 100   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 95    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 54.421  | -8.8  | 103   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 49.667  | 0.7   | 97    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 51.830  | -3.7  | 104   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 52.207  | -4.4  | 100   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 47.033  | 5.9   | 94    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 51.005  | -2.0  | 101   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 58.154  | -16.3 | 112   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 51.738  | -3.5  | 101   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 52.673  | -5.3  | 103   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 52.641  | -5.3  | 104   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.502  | -3.0# | 100   | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 52.628  | -5.3  | 103   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 53.303  | -6.6  | 101   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 53.180  | -6.4  | 103   | 0.00     |

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 ALS Vial : 2 Sample Multiplier: 1

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 LabSampleId :  
 VSTDCCC050

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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 | 1042.029 | -4.2  | 104   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 52.984   | -6.0  | 102   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 275.367  | -10.1 | 107   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 51.403   | -2.8# | 101   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 53.433   | -6.9  | 101   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 52.593   | -5.2  | 100   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 52.413   | -4.8  | 102   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 54.343   | -8.7  | 103   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 52.062   | -4.1  | 101   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 227.501  | 9.0   | 86    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 280.617  | -12.2 | 109   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 54.339   | -8.7  | 103   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 53.141   | -6.3  | 104   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 52.512   | -5.0  | 102   | 0.00     |
|       |                             |          |          |       |       |          |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 93    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 58.106   | -16.2 | 109   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 52.809   | -5.6  | 101   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 55.141   | -10.3 | 103   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 53.064   | -6.1# | 101   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 105.630  | -5.6  | 101   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 53.605   | -7.2  | 102   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 54.220   | -8.4  | 102   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 58.003   | -16.0 | 108   | 0.00     |
|       |                             |          |          |       |       |          |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 94    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 53.549   | -7.1  | 102   | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 53.002   | -6.0  | 101   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 53.486   | -7.0  | 103   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 59.253   | -18.5 | 116   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 52.824   | -5.6  | 102   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 52.674   | -5.3  | 101   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 52.691   | -5.4  | 102   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 53.961   | -7.9  | 103   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 57.456   | -14.9 | 108   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 53.221   | -6.4  | 102   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 53.082   | -6.2  | 102   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 53.433   | -6.9  | 102   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 53.070   | -6.1  | 101   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 53.518   | -7.0  | 102   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 53.249   | -6.5  | 102   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 53.182   | -6.4  | 102   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 51.569   | -3.1  | 97    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 54.722   | -9.4  | 104   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 53.453   | -6.9  | 102   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 54.941   | -9.9  | 106   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 52.731   | -5.5  | 98    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 51.989   | -4.0  | 97    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 59.179   | -18.4 | 110   | 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 | 53.897 | -7.8 | 101   | 0.00     |

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