

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY081622\  
 Data File : VY010039.D  
 Acq On : 16 Aug 2022 11:51  
 Operator : KP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 16 16:52:12 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081522S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 16 07:01:08 2022  
 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   | 98    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 48.930  | 2.1   | 105   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 46.827  | 6.3   | 91    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 44.540  | 10.9# | 88    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 49.251  | 1.5   | 99    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 47.244  | 5.5   | 97    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 49.996  | 0.0   | 103   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 47.814  | 4.4   | 99    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.602  | 0.8   | 102   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 52.606  | -5.2  | 93    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 235.738 | 5.7   | 112   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.149  | 1.7#  | 99    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 205.284 | 17.9  | 97    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 48.488  | 3.0   | 99    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 221.891 | 11.2  | 93    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 259.670 | -3.9  | 107   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 46.437  | 7.1   | 91    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 41.809  | 16.4  | 96    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 48.578  | 2.8   | 98    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 49.718  | 0.6   | 101   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 48.546  | 2.9   | 96    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 56.749  | -13.5 | 101   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 286.964 | -14.8 | 99    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 52.488  | -5.0  | 101   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 266.658 | -6.7  | 100   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 51.838  | -3.7  | 104   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 51.740  | -3.5  | 101   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 52.862  | -5.7  | 103   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 250.506 | -0.2  | 99    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 48.043  | 3.9#  | 101   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 47.773  | 4.5   | 98    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 52.367  | -4.7  | 103   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 47.766  | 4.5   | 98    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 100   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 49.912  | 0.2   | 101   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 51.191  | -2.4  | 100   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 51.569  | -3.1  | 96    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 51.598  | -3.2  | 102   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 54.065  | -8.1  | 101   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.789  | 0.4   | 100   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 50.922  | -1.8  | 109   | 0.01     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.884  | 0.2   | 101   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 50.728  | -1.5  | 98    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 50.303  | -0.6  | 100   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.423  | -0.8# | 102   | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 48.070  | 3.9   | 97    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 47.664  | 4.7   | 95    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 50.040  | -0.1  | 94    | 0.00     |

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 ALS Vial : 3 Sample Multiplier: 1

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 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 | 875.514 | 12.4  | 101   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 46.114  | 7.8   | 89    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 221.255 | 11.5  | 84    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 48.792  | 2.4#  | 91    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 48.241  | 3.5   | 94    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 47.816  | 4.4   | 93    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 45.453  | 9.1   | 91    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 47.872  | 4.3   | 88    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 45.956  | 8.1   | 91    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 202.651 | 18.9  | 86    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 200.157 | 19.9  | 81    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 50.639  | -1.3  | 103   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 49.248  | 1.5   | 98    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 46.906  | 6.2   | 88    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 95    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 51.575  | -3.2  | 97    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.437  | 1.1   | 93    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 50.175  | -0.3  | 94    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 51.120  | -2.2# | 89    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 105.371 | -5.4  | 91    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 53.919  | -7.8  | 93    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.179  | -6.4  | 90    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 50.664  | -1.3  | 94    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 94    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 49.513  | 1.0   | 91    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 36.791  | 26.4# | 68    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 41.940  | 16.1  | 82    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 44.102  | 11.8  | 90    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 48.104  | 3.8   | 95    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 47.629  | 4.7   | 88    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 47.409  | 5.2   | 89    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 49.419  | 1.2   | 91    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 43.475  | 13.0  | 78    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 47.480  | 5.0   | 88    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 51.336  | -2.7  | 94    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 50.099  | -0.2  | 90    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 49.559  | 0.9   | 89    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 50.693  | -1.4  | 91    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 46.885  | 6.2   | 90    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 48.316  | 3.4   | 96    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 51.089  | -2.2  | 91    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 49.750  | 0.5   | 98    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 50.514  | -1.0  | 99    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 43.986  | 12.0  | 89    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 47.757  | 4.5   | 91    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 46.100  | 7.8   | 93    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 42.336  | 15.3  | 87    | 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 | 46.536 | 6.9  | 94    | 0.00     |

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