

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY092921\  
 Data File : VY006228.D  
 Acq On : 29 Sep 2021 21:06  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 30 07:35:31 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y092821S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 28 17:44:36 2021  
 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    | 86    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 46.834  | 6.3    | 83    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 47.143  | 5.7    | 80    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 48.210  | 3.6#   | 84    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 54.521  | -9.0   | 102   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 51.109  | -2.2   | 87    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 48.549  | 2.9    | 84    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 53.290  | -6.6   | 90    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 47.443  | 5.1    | 83    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 42.227  | 15.5   | 69    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 248.434 | 0.6    | 84    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.546  | 0.9#   | 86    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 323.190 | -29.3# | 108   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 51.323  | -2.6   | 88    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 272.419 | -9.0   | 91    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 212.586 | 15.0   | 62    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 49.105  | 1.8    | 85    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 57.183  | -14.4  | 96    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 55.476  | -11.0  | 92    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 54.186  | -8.4   | 90    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 51.241  | -2.5   | 89    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 53.454  | -6.9   | 91    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 263.312 | -5.3   | 88    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 51.951  | -3.9   | 90    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 249.367 | 0.3    | 78    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 47.024  | 6.0    | 82    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 53.542  | -7.1   | 92    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 52.710  | -5.4   | 93    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 268.912 | -7.6   | 89    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 53.551  | -7.1#  | 92    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 45.494  | 9.0    | 82    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 51.999  | -4.0   | 90    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 51.026  | -2.1   | 91    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 90    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 48.313  | 3.4    | 90    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 47.690  | 4.6    | 88    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 50.643  | -1.3   | 89    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 48.011  | 4.0    | 87    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 46.499  | 7.0    | 84    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 50.294  | -0.6   | 91    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 40.188  | 19.6   | 73    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 52.846  | -5.7   | 94    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 51.802  | -3.6   | 91    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 50.479  | -1.0   | 92    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.450  | -0.9#  | 91    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 51.243  | -2.5   | 90    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 52.231  | -4.5   | 93    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 51.016  | -2.0   | 87    | 0.00     |

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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 | 937.511 | 6.2   | 82    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 46.860  | 6.3   | 88    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 264.797 | -5.9  | 90    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 51.133  | -2.3# | 92    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 50.959  | -1.9  | 91    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.393  | -0.8  | 89    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 53.128  | -6.3  | 93    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 53.631  | -7.3  | 91    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.551  | -3.1  | 91    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 243.341 | 2.7   | 86    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 260.133 | -4.1  | 86    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 53.053  | -6.1  | 93    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 52.751  | -5.5  | 92    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 48.139  | 3.7   | 89    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 93    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 53.882  | -7.8  | 102   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.649  | 0.7   | 92    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 50.817  | -1.6  | 93    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 49.162  | 1.7#  | 91    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 99.152  | 0.8   | 92    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.198  | -0.4  | 92    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 51.646  | -3.3  | 93    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.601  | -3.2  | 92    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 93    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 48.820  | 2.4   | 91    | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 51.177  | -2.4  | 90    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 47.841  | 4.3   | 87    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 48.003  | 4.0   | 92    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 50.148  | -0.3  | 93    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 48.211  | 3.6   | 90    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 49.357  | 1.3   | 92    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 49.130  | 1.7   | 91    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 48.786  | 2.4   | 87    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 49.116  | 1.8   | 92    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 50.078  | -0.2  | 93    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 49.323  | 1.4   | 91    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 48.378  | 3.2   | 89    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 48.547  | 2.9   | 90    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.847  | 0.3   | 94    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.581  | 0.8   | 93    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 47.131  | 5.7   | 88    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 48.811  | 2.4   | 91    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 50.828  | -1.7  | 95    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 50.272  | -0.5  | 93    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 49.106  | 1.8   | 91    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 46.073  | 7.9   | 86    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 50.881  | -1.8  | 92    | 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 | 49.742 | 0.5  | 93    | 0.00     |

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