

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY042222\  
 Data File : VY008454.D  
 Acq On : 22 Apr 2022 09:59  
 Operator : KP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Apr 23 01:49:34 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y042122S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 21 14:28:40 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   | 125   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 47.737  | 4.5   | 120   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 50.046  | -0.1  | 119   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 50.759  | -1.5# | 119   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 46.953  | 6.1   | 121   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 50.571  | -1.1  | 121   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 48.247  | 3.5   | 121   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 47.858  | 4.3   | 114   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.679  | 0.6   | 126   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 47.460  | 5.1   | 116   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 234.648 | 6.1   | 114   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.728  | 0.5#  | 121   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 246.750 | 1.3   | 120   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 51.301  | -2.6  | 124   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 232.730 | 6.9   | 110   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 242.564 | 3.0   | 110   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 49.989  | 0.0   | 120   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 44.656  | 10.7  | 111   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 48.581  | 2.8   | 114   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 44.489  | 11.0  | 104   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.267  | 1.5   | 119   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 49.113  | 1.8   | 116   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 249.238 | 0.3   | 114   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 49.738  | 0.5   | 119   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 239.496 | 4.2   | 110   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 51.455  | -2.9  | 124   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 50.030  | -0.1  | 119   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 45.712  | 8.6   | 103   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 236.337 | 5.5   | 111   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 50.000  | 0.0   | 118   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 48.571  | 2.9   | 126   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 51.523  | -3.0  | 124   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 46.818  | 6.4   | 102   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 121   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 47.539  | 4.9   | 101   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 50.860  | -1.7  | 123   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 47.414  | 5.2   | 115   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 51.876  | -3.8  | 124   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 52.753  | -5.5  | 126   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 51.036  | -2.1  | 120   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 49.802  | 0.4   | 134   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.624  | 0.8   | 114   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 49.476  | 1.0   | 113   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 51.443  | -2.9  | 124   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.179  | -2.4# | 117   | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 49.697  | 0.6   | 113   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 51.043  | -2.1  | 117   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 49.457  | 1.1   | 112   | 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 | 1050.283 | -5.0  | 119   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 43.683   | 12.6  | 100   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 245.617  | 1.8   | 112   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 51.358   | -2.7# | 121   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.772   | -3.5  | 116   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 51.142   | -2.3  | 118   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 49.858   | 0.3   | 114   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 50.982   | -2.0  | 113   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 49.603   | 0.8   | 112   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 246.235  | 1.5   | 109   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 254.314  | -1.7  | 113   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 51.480   | -3.0  | 115   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 50.065   | -0.1  | 115   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 46.287   | 7.4   | 101   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 115   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 51.994   | -4.0  | 126   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 51.801   | -3.6  | 119   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 52.408   | -4.8  | 120   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 52.858   | -5.7# | 123   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 106.314  | -6.3  | 123   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 52.816   | -5.6  | 122   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 52.669   | -5.3  | 117   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 52.174   | -4.3  | 116   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 115   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 54.323   | -8.6  | 125   | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 53.564   | -7.1  | 114   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 52.021   | -4.0  | 113   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 41.513   | 17.0  | 93    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 52.240   | -4.5  | 117   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 54.951   | -9.9  | 125   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 53.321   | -6.6  | 121   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 53.549   | -7.1  | 124   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 56.138   | -12.3 | 119   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 52.702   | -5.4  | 118   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 54.199   | -8.4  | 125   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 54.133   | -8.3  | 124   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 54.993   | -10.0 | 126   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 55.020   | -10.0 | 127   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 52.103   | -4.2  | 120   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 51.863   | -3.7  | 120   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 55.623   | -11.2 | 125   | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 56.847   | -13.7 | 126   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 50.974   | -1.9  | 117   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 51.809   | -3.6  | 114   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 52.109   | -4.2  | 118   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 53.736   | -7.5  | 125   | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 51.460   | -2.9  | 113   | 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 | 51.850 | -3.7 | 116   | 0.00     |

(#) = Out of Range                      SPCC's out = 0    CCC's out = 5