

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY032122\  
 Data File : VY007943.D  
 Acq On : 21 Mar 2022 09:40  
 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: Mar 21 19:02:38 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y031722S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 17 13:55:34 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    | 74    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 51.291  | -2.6   | 82    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 56.900  | -13.8  | 89    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 55.565  | -11.1# | 89    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 62.831  | -25.7# | 88    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 48.638  | 2.7    | 91    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 48.941  | 2.1    | 88    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 48.302  | 3.4    | 85    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 50.432  | -0.9   | 90    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 49.661  | 0.7    | 85    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 248.640 | 0.5    | 84    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 47.167  | 5.7#   | 87    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 98.600  | 60.6#  | 67    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 47.686  | 4.6    | 86    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 250.886 | -0.4   | 83    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 267.020 | -6.8   | 81    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 51.861  | -3.7   | 84    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 51.333  | -2.7   | 80    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 51.781  | -3.6   | 87    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 52.500  | -5.0   | 78    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.733  | 4.5    | 88    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 51.624  | -3.2   | 88    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 266.126 | -6.5   | 85    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 50.922  | -1.8   | 89    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 246.773 | 1.3    | 80    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 52.383  | -4.8   | 89    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 50.789  | -1.6   | 88    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 50.299  | -0.6   | 79    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 239.429 | 4.2    | 81    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 53.225  | -6.5#  | 91    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 53.879  | -7.8   | 85    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 50.989  | -2.0   | 89    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 51.421  | -2.8   | 94    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 77    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 53.484  | -7.0   | 95    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 46.602  | 6.8    | 87    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 47.575  | 4.8    | 83    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.825  | 0.3    | 90    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 52.665  | -5.3   | 86    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 47.982  | 4.0    | 88    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 48.030  | 3.9    | 91    | 0.01     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 50.412  | -0.8   | 89    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 48.234  | 3.5    | 83    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 48.771  | 2.5    | 88    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.343  | 1.3#   | 87    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 49.494  | 1.0    | 87    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 51.118  | -2.2   | 89    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 45.916  | 8.2    | 81    | 0.00     |

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 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 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 | 1017.294 | -1.7  | 92    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 61.685   | -23.4 | 94    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 239.707  | 4.1   | 83    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 48.571   | 2.9#  | 88    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 49.664   | 0.7   | 87    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 49.391   | 1.2   | 87    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 51.316   | -2.6  | 90    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 48.805   | 2.4   | 85    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 49.907   | 0.2   | 87    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 245.405  | 1.8   | 80    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 237.381  | 5.0   | 80    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 51.639   | -3.3  | 88    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 48.673   | 2.7   | 86    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 49.222   | 1.6   | 93    | 0.00     |
|       |                             |          |          |       |       |          |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 78    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 46.211   | 7.6   | 87    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.631   | 0.7   | 89    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 51.186   | -2.4  | 89    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 48.691   | 2.6#  | 89    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 97.121   | 2.9   | 89    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 48.894   | 2.2   | 89    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 49.742   | 0.5   | 88    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 50.100   | -0.2  | 86    | 0.00     |
|       |                             |          |          |       |       |          |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 79    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 50.215   | -0.4  | 90    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 47.518   | 5.0   | 83    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 49.855   | 0.3   | 86    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 45.525   | 9.0   | 79    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 50.100   | -0.2  | 89    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 49.402   | 1.2   | 90    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 49.592   | 0.8   | 89    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 49.777   | 0.4   | 90    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 48.348   | 3.3   | 83    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 48.739   | 2.5   | 87    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 51.377   | -2.8  | 91    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 49.333   | 1.3   | 89    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 50.476   | -1.0  | 91    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 49.940   | 0.1   | 90    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.582   | -1.2  | 89    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 50.387   | -0.8  | 90    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 49.716   | 0.6   | 89    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 51.103   | -2.2  | 90    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 51.074   | -2.1  | 89    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 45.092   | 9.8   | 82    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 48.769   | 2.5   | 83    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 46.846   | 6.3   | 82    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 48.967   | 2.1   | 83    | 0.00     |

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ALS Vial : 2 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 | 48.316 | 3.4  | 82    | 0.00     |

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