

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv120619\  
 Data File : VY000904.D  
 Acq On : 06 Dec 2019 16:43  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 06 18:18:38 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y112719S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 27 12:40:47 2019  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | Amount  | Calc.   | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|---------|---------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 50.000  | 50.000  | 0.0    | 89    | -0.01    |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 44.010  | 12.0   | 78    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 47.389  | 5.2    | 83    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 48.928  | 2.1#   | 86    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 50.217  | -0.4   | 88    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 50.392  | -0.8   | 86    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 51.991  | -4.0   | 91    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 54.003  | -8.0   | 92    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 51.668  | -3.3   | 90    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 54.068  | -8.1   | 91    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 267.919 | -7.2   | 88    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 51.622  | -3.2#  | 91    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 239.748 | 4.1    | 87    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 53.105  | -6.2   | 89    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 269.976 | -8.0   | 90    | -0.02    |
| 16 T  | Acetone                     | 250.000 | 269.836 | -7.9   | 94    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 49.266  | 1.5    | 85    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 53.401  | -6.8   | 93    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 55.156  | -10.3  | 90    | -0.01    |
| 20 T  | Methylene Chloride          | 50.000  | 53.714  | -7.4   | 95    | -0.01    |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 52.852  | -5.7   | 92    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 55.490  | -11.0  | 93    | -0.01    |
| 23 T  | Vinyl Acetate               | 250.000 | 277.485 | -11.0  | 89    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 53.883  | -7.8   | 91    | -0.01    |
| 25 T  | 2-Butanone                  | 250.000 | 267.114 | -6.8   | 84    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 52.948  | -5.9   | 92    | -0.01    |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 54.535  | -9.1   | 93    | -0.01    |
| 28 T  | Bromochloromethane          | 50.000  | 64.320  | -28.6# | 109   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 277.308 | -10.9  | 90    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 52.061  | -4.1#  | 92    | -0.01    |
| 31 T  | Cyclohexane                 | 50.000  | 49.399  | 1.2    | 87    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 53.987  | -8.0   | 93    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 51.936  | -3.9   | 93    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 89    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 51.111  | -2.2   | 94    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 51.180  | -2.4   | 90    | -0.01    |
| 37 T  | Ethyl Acetate               | 50.000  | 51.548  | -3.1   | 86    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 52.091  | -4.2   | 91    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 50.795  | -1.6   | 89    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 52.930  | -5.9   | 91    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 46.360  | 7.3    | 81    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 53.149  | -6.3   | 91    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 53.879  | -7.8   | 89    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 52.833  | -5.7   | 92    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 54.479  | -9.0#  | 92    | 0.00     |

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | Amount   | Calc.    | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 53.709   | -7.4  | 90    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 54.842   | -9.7  | 92    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 52.779   | -5.6  | 83    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1108.269 | -10.8 | 88    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 52.794   | -5.6  | 92    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 272.421  | -9.0  | 88    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 53.905   | -7.8# | 92    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 56.457   | -12.9 | 92    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 54.597   | -9.2  | 92    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 55.404   | -10.8 | 94    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 56.928   | -13.9 | 90    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 55.487   | -11.0 | 93    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 251.165  | -0.5  | 90    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 264.669  | -5.9  | 81    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 56.287   | -12.6 | 93    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 56.249   | -12.5 | 93    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 49.300   | 1.4   | 93    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 91    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 52.768   | -5.5  | 95    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 52.683   | -5.4  | 92    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 53.333   | -6.7  | 92    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 52.394   | -4.8# | 92    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 103.497  | -3.5  | 90    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 52.639   | -5.3  | 91    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.887   | -7.8  | 92    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 54.918   | -9.8  | 91    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 91    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 51.188   | -2.4  | 91    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 53.576   | -7.2  | 90    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 52.706   | -5.4  | 88    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 51.573   | -3.1  | 90    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 51.761   | -3.5  | 90    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 51.482   | -3.0  | 91    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 51.682   | -3.4  | 92    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.937   | -3.9  | 92    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 53.409   | -6.8  | 85    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 53.419   | -6.8  | 95    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 52.076   | -4.2  | 91    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 51.737   | -3.5  | 91    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 51.832   | -3.7  | 92    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 52.156   | -4.3  | 91    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 51.905   | -3.8  | 93    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 52.157   | -4.3  | 91    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 52.140   | -4.3  | 92    | 0.00     |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 53.535 | -7.1 | 91    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 53.539 | -7.1 | 93    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 53.663 | -7.3 | 90    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 52.904 | -5.8 | 93    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 52.538 | -5.1 | 94    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 53.785 | -7.6 | 91    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 53.384 | -6.8 | 94    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 6