

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv041420\  
 Data File : VY002323.D  
 Acq On : 14 Apr 2020 20:38  
 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: Apr 15 06:54:12 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y040820S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 08 15:15:02 2020  
 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    | 88    | 0.01     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 50.939  | -1.9   | 89    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 52.058  | -4.1   | 94    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 51.163  | -2.3#  | 91    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 55.060  | -10.1  | 96    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 53.231  | -6.5   | 94    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 51.281  | -2.6   | 94    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 56.901  | -13.8  | 102   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 52.781  | -5.6   | 96    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 53.018  | -6.0   | 94    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 276.877 | -10.8  | 97    | 0.01     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 53.917  | -7.8#  | 98    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 225.904 | 9.6    | 81    | 0.01     |
| 14 T  | Allyl chloride              | 50.000  | 51.705  | -3.4   | 92    | 0.01     |
| 15 T  | Acrylonitrile               | 250.000 | 270.547 | -8.2   | 98    | 0.01     |
| 16 T  | Acetone                     | 250.000 | 221.503 | 11.4   | 76    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 52.993  | -6.0   | 95    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 52.671  | -5.3   | 96    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 55.394  | -10.8  | 98    | 0.01     |
| 20 T  | Methylene Chloride          | 50.000  | 54.424  | -8.8   | 104   | 0.01     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 54.078  | -8.2   | 98    | 0.01     |
| 22 T  | Diisopropyl ether           | 50.000  | 53.879  | -7.8   | 96    | 0.01     |
| 23 T  | Vinyl Acetate               | 250.000 | 265.381 | -6.2   | 94    | 0.01     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 55.192  | -10.4  | 99    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 247.174 | 1.1    | 90    | 0.01     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 47.989  | 4.0    | 89    | 0.01     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 56.042  | -12.1  | 101   | 0.01     |
| 28 T  | Bromochloromethane          | 50.000  | 48.690  | 2.6    | 86    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 254.129 | -1.7   | 93    | 0.01     |
| 30 C  | Chloroform                  | 50.000  | 55.429  | -10.9# | 100   | 0.01     |
| 31 T  | Cyclohexane                 | 50.000  | 49.698  | 0.6    | 92    | 0.01     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 53.440  | -6.9   | 94    | 0.01     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 48.823  | 2.4    | 88    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 90    | 0.01     |
| 35 S  | Dibromofluoromethane        | 50.000  | 51.654  | -3.3   | 94    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 51.203  | -2.4   | 95    | 0.01     |
| 37 T  | Ethyl Acetate               | 50.000  | 49.431  | 1.1    | 93    | 0.01     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.941  | 0.1    | 92    | 0.01     |
| 39 T  | Methylcyclohexane           | 50.000  | 50.975  | -2.0   | 95    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 53.366  | -6.7   | 99    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 48.388  | 3.2    | 100   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 50.422  | -0.8   | 94    | 0.01     |
| 43 T  | Isopropyl Acetate           | 50.000  | 49.667  | 0.7    | 93    | 0.01     |
| 44 TM | Trichloroethene             | 50.000  | 52.104  | -4.2   | 98    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 53.505  | -7.0#  | 99    | 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) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 54.406   | -8.8  | 100   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 54.024   | -8.0  | 99    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 48.478   | 3.0   | 89    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1098.048 | -9.8  | 100   | 0.01     |
| 50 S  | Toluene-d8                  | 50.000   | 50.408   | -0.8  | 91    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 255.344  | -2.1  | 97    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 53.587   | -7.2# | 98    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 52.977   | -6.0  | 96    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 53.094   | -6.2  | 96    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 54.774   | -9.5  | 101   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 53.882   | -7.8  | 97    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 53.177   | -6.4  | 98    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 252.758  | -1.1  | 96    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 241.684  | 3.3   | 90    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 54.664   | -9.3  | 99    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 53.870   | -7.7  | 100   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 48.981   | 2.0   | 88    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 89    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 52.487   | -5.0  | 96    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 53.270   | -6.5  | 98    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 54.367   | -8.7  | 98    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 53.043   | -6.1# | 97    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 106.078  | -6.1  | 98    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 53.524   | -7.0  | 98    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.973   | -7.9  | 98    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 54.888   | -9.8  | 97    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 87    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 54.343   | -8.7  | 96    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 50.140   | -0.3  | 90    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 57.930   | -15.9 | 103   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 50.954   | -1.9  | 85    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 54.324   | -8.6  | 96    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 52.570   | -5.1  | 94    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 53.393   | -6.8  | 95    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 53.351   | -6.7  | 94    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 51.290   | -2.6  | 89    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 52.053   | -4.1  | 93    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 54.049   | -8.1  | 95    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 53.103   | -6.2  | 94    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 52.515   | -5.0  | 94    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 52.331   | -4.7  | 92    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 53.662   | -7.3  | 96    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 52.230   | -4.5  | 95    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 50.586   | -1.2  | 91    | 0.00     |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 52.972 | -5.9 | 94    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 53.944 | -7.9 | 96    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 48.807 | 2.4  | 88    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 48.098 | 3.8  | 88    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 49.005 | 2.0  | 88    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 50.798 | -1.6 | 89    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 48.512 | 3.0  | 88    | 0.00     |

(#) = Out of Range

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