

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv041620\  
 Data File : VY002384.D  
 Acq On : 16 Apr 2020 21:34  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Apr 17 08:31:53 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   | 87    | 0.01     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 44.787  | 10.4  | 78    | 0.01     |
| 3 P   | Chloromethane               | 50.000  | 46.450  | 7.1   | 83    | 0.01     |
| 4 C   | Vinyl Chloride              | 50.000  | 45.963  | 8.1#  | 81    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 49.972  | 0.1   | 87    | 0.01     |
| 6 T   | Chloroethane                | 50.000  | 48.817  | 2.4   | 86    | 0.01     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 48.525  | 3.0   | 89    | 0.01     |
| 8 T   | Diethyl Ether               | 50.000  | 57.919  | -15.8 | 104   | 0.02     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 51.314  | -2.6  | 93    | 0.02     |
| 10 T  | Methyl Iodide               | 50.000  | 53.066  | -6.1  | 94    | 0.02     |
| 11 T  | Tert butyl alcohol          | 250.000 | 296.603 | -18.6 | 103   | 0.02     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 51.497  | -3.0# | 93    | 0.02     |
| 13 T  | Acrolein                    | 250.000 | 194.411 | 22.2  | 69    | 0.02     |
| 14 T  | Allyl chloride              | 50.000  | 47.074  | 5.9   | 83    | 0.02     |
| 15 T  | Acrylonitrile               | 250.000 | 284.333 | -13.7 | 103   | 0.02     |
| 16 T  | Acetone                     | 250.000 | 226.685 | 9.3   | 77    | 0.01     |
| 17 T  | Carbon Disulfide            | 50.000  | 48.888  | 2.2   | 87    | 0.02     |
| 18 T  | Methyl Acetate              | 50.000  | 54.943  | -9.9  | 100   | 0.01     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 56.052  | -12.1 | 99    | 0.02     |
| 20 T  | Methylene Chloride          | 50.000  | 56.149  | -12.3 | 107   | 0.02     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 52.349  | -4.7  | 94    | 0.02     |
| 22 T  | Diisopropyl ether           | 50.000  | 50.425  | -0.8  | 89    | 0.02     |
| 23 T  | Vinyl Acetate               | 250.000 | 255.430 | -2.2  | 90    | 0.02     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 51.464  | -2.9  | 92    | 0.01     |
| 25 T  | 2-Butanone                  | 250.000 | 256.993 | -2.8  | 93    | 0.02     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 44.068  | 11.9  | 82    | 0.01     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 54.125  | -8.3  | 97    | 0.02     |
| 28 T  | Bromochloromethane          | 50.000  | 49.859  | 0.3   | 88    | 0.02     |
| 29 T  | Tetrahydrofuran             | 250.000 | 263.008 | -5.2  | 96    | 0.01     |
| 30 C  | Chloroform                  | 50.000  | 53.110  | -6.2# | 95    | 0.01     |
| 31 T  | Cyclohexane                 | 50.000  | 45.475  | 9.0   | 84    | 0.01     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 50.139  | -0.3  | 88    | 0.01     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 49.444  | 1.1   | 89    | 0.01     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 91    | 0.01     |
| 35 S  | Dibromofluoromethane        | 50.000  | 51.565  | -3.1  | 95    | 0.01     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 46.439  | 7.1   | 87    | 0.01     |
| 37 T  | Ethyl Acetate               | 50.000  | 47.529  | 4.9   | 91    | 0.02     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 46.993  | 6.0   | 88    | 0.02     |
| 39 T  | Methylcyclohexane           | 50.000  | 47.153  | 5.7   | 89    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 50.390  | -0.8  | 95    | 0.01     |
| 41 T  | Methacrylonitrile           | 50.000  | 41.918  | 16.2  | 88    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 48.981  | 2.0   | 93    | 0.01     |
| 43 T  | Isopropyl Acetate           | 50.000  | 48.680  | 2.6   | 92    | 0.01     |
| 44 TM | Trichloroethene             | 50.000  | 49.674  | 0.7   | 95    | 0.01     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.575  | -1.2# | 95    | 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   | 53.414   | -6.8  | 100   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 51.263   | -2.5  | 96    | 0.01     |
| 48 T  | Methyl methacrylate         | 50.000   | 47.811   | 4.4   | 89    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1136.046 | -13.6 | 105   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 49.485   | 1.0   | 91    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 250.493  | -0.2  | 96    | 0.01     |
| 52 CM | Toluene                     | 50.000   | 50.395   | -0.8# | 94    | 0.01     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 50.913   | -1.8  | 93    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.667   | -1.3  | 93    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 54.895   | -9.8  | 103   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 54.096   | -8.2  | 99    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 52.715   | -5.4  | 99    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 262.253  | -4.9  | 101   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 248.645  | 0.5   | 94    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 55.024   | -10.0 | 102   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 53.374   | -6.7  | 101   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 50.431   | -0.9  | 92    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 93    | 0.01     |
| 64 T  | Tetrachloroethene           | 50.000   | 49.848   | 0.3   | 95    | 0.01     |
| 65 PM | Chlorobenzene               | 50.000   | 51.238   | -2.5  | 98    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 52.493   | -5.0  | 98    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 49.482   | 1.0#  | 94    | 0.01     |
| 68 T  | m/p-Xylenes                 | 100.000  | 98.797   | 1.2   | 94    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.809   | -1.6  | 97    | 0.01     |
| 70 T  | Styrene                     | 50.000   | 51.337   | -2.7  | 97    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 55.398   | -10.8 | 101   | 0.01     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 93    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 49.176   | 1.6   | 93    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 47.654   | 4.7   | 92    | 0.01     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 56.308   | -12.6 | 107   | 0.01     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 50.265   | -0.5  | 90    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 51.314   | -2.6  | 97    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 47.895   | 4.2   | 92    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 48.596   | 2.8   | 93    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 48.692   | 2.6   | 92    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 52.547   | -5.1  | 97    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 48.080   | 3.8   | 92    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 48.616   | 2.8   | 91    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 49.140   | 1.7   | 93    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 47.835   | 4.3   | 91    | 0.01     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 48.595   | 2.8   | 92    | 0.01     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.111   | -0.2  | 96    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.200   | 1.6   | 96    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 46.871   | 6.3   | 90    | 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 | 49.282 | 1.4  | 94    | 0.01     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 50.604 | -1.2 | 97    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 50.790 | -1.6 | 98    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 48.225 | 3.5  | 95    | 0.01     |
| 94 T | Hexachlorobutadiene         | 50.000 | 46.956 | 6.1  | 90    | 0.01     |
| 95 T | Naphthalene                 | 50.000 | 53.365 | -6.7 | 101   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 48.570 | 2.9  | 95    | 0.00     |

(#) = Out of Range

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