

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv060320\  
 Data File : VY002833.D  
 Acq On : 03 Jun 2020 15:37  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 03 17:31:05 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y052720S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 27 13:13:33 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  | 114   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 43.802  | 12.4 | 109   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 44.946  | 10.1 | 112   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 48.162  | 3.7# | 117   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 44.802  | 10.4 | 110   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 47.439  | 5.1  | 114   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 46.067  | 7.9  | 109   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 44.643  | 10.7 | 108   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 50.631  | -1.3 | 116   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 47.308  | 5.4  | 104   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 227.038 | 9.2  | 106   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 47.993  | 4.0# | 112   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 262.050 | -4.8 | 127   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 51.487  | -3.0 | 117   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 249.016 | 0.4  | 114   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 259.915 | -4.0 | 115   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 45.679  | 8.6  | 107   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 51.991  | -4.0 | 119   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 49.379  | 1.2  | 114   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 46.961  | 6.1  | 114   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.489  | 5.0  | 111   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 51.398  | -2.8 | 118   | -0.01    |
| 23 T  | Vinyl Acetate               | 250.000 | 264.186 | -5.7 | 117   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 50.312  | -0.6 | 115   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 252.756 | -1.1 | 115   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 47.422  | 5.2  | 114   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 48.341  | 3.3  | 113   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 50.543  | -1.1 | 116   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 251.959 | -0.8 | 114   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 48.762  | 2.5# | 112   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 46.655  | 6.7  | 113   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 47.000  | 6.0  | 109   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 47.638  | 4.7  | 110   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0  | 114   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 49.952  | 0.1  | 113   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 48.064  | 3.9  | 112   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 49.383  | 1.2  | 113   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 45.936  | 8.1  | 108   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 47.231  | 5.5  | 112   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 47.310  | 5.4  | 110   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 50.728  | -1.5 | 122   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 46.397  | 7.2  | 109   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 50.860  | -1.7 | 116   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 46.138  | 7.7  | 108   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.519  | 1.0# | 115   | 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   | 48.998  | 2.0  | 113   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 48.681  | 2.6  | 111   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 51.283  | -2.6 | 117   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 870.238 | 13.0 | 100   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 47.120  | 5.8  | 109   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 253.484 | -1.4 | 116   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 47.003  | 6.0# | 109   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 48.492  | 3.0  | 111   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 48.610  | 2.8  | 112   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 48.070  | 3.9  | 111   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 50.058  | -0.1 | 114   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 48.599  | 2.8  | 113   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 260.498 | -4.2 | 122   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 252.069 | -0.8 | 113   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 47.189  | 5.6  | 108   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 48.285  | 3.4  | 111   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 47.826  | 4.3  | 109   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0  | 112   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 44.074  | 11.9 | 101   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 47.686  | 4.6  | 110   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 48.446  | 3.1  | 109   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 47.757  | 4.5# | 110   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 95.371  | 4.6  | 109   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 48.072  | 3.9  | 109   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 48.253  | 3.5  | 109   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 48.330  | 3.3  | 109   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0  | 108   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 49.076  | 1.8  | 109   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 52.536  | -5.1 | 112   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 53.724  | -7.4 | 117   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 53.714  | -7.4 | 118   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 48.450  | 3.1  | 108   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 49.471  | 1.1  | 109   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 48.681  | 2.6  | 108   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 48.547  | 2.9  | 106   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 52.005  | -4.0 | 111   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 48.845  | 2.3  | 107   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 48.499  | 3.0  | 106   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 48.445  | 3.1  | 106   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 48.822  | 2.4  | 108   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 48.881  | 2.2  | 107   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 47.524  | 5.0  | 105   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 47.255  | 5.5  | 105   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 48.966  | 2.1  | 107   | 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 | 49.405 | 1.2  | 108   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 47.797 | 4.4  | 105   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 51.566 | -3.1 | 113   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 47.466 | 5.1  | 105   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 47.895 | 4.2  | 106   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 48.528 | 2.9  | 106   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 47.179 | 5.6  | 106   | 0.00     |

(#) = Out of Range

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