

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv052120\  
 Data File : VY002732.D  
 Acq On : 21 May 2020 10:39  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 21 13:35:01 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y051520S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat May 16 04:52:36 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  | 47.132  | 5.7   | 113   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 47.191  | 5.6   | 112   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 49.690  | 0.6#  | 115   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 46.462  | 7.1   | 108   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 48.145  | 3.7   | 110   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 47.882  | 4.2   | 110   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 50.355  | -0.7  | 109   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.105  | 1.8   | 113   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 49.105  | 1.8   | 103   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 268.142 | -7.3  | 123   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.152  | 1.7#  | 112   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 278.640 | -11.5 | 126   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 50.609  | -1.2  | 114   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 268.132 | -7.3  | 115   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 280.917 | -12.4 | 120   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 48.332  | 3.3   | 109   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 53.090  | -6.2  | 115   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 51.330  | -2.7  | 112   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 47.390  | 5.2   | 110   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.039  | 1.9   | 111   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 50.700  | -1.4  | 112   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 263.972 | -5.6  | 114   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 49.970  | 0.1   | 112   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 274.530 | -9.8  | 120   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 48.302  | 3.4   | 113   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 50.042  | -0.1  | 112   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 51.802  | -3.6  | 120   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 274.509 | -9.8  | 118   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 49.013  | 2.0#  | 109   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 47.564  | 4.9   | 112   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 49.132  | 1.7   | 110   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 49.059  | 1.9   | 108   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 111   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.998  | -2.0  | 110   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 50.260  | -0.5  | 112   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 54.814  | -9.6  | 115   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.150  | 1.7   | 107   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 49.784  | 0.4   | 110   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.870  | 0.3   | 110   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 57.233  | -14.5 | 119   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 50.106  | -0.2  | 109   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 54.888  | -9.8  | 115   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 50.156  | -0.3  | 110   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.990  | -2.0# | 113   | 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   | 51.125   | -2.3  | 109   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 51.140   | -2.3  | 110   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 53.771   | -7.5  | 113   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1099.972 | -10.0 | 119   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 49.811   | 0.4   | 109   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 279.016  | -11.6 | 117   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.030   | -0.1# | 110   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.573   | -3.1  | 111   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 51.294   | -2.6  | 111   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 51.505   | -3.0  | 112   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 54.715   | -9.4  | 115   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.818   | -3.6  | 111   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 270.132  | -8.1  | 115   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 283.412  | -13.4 | 118   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 51.838   | -3.7  | 110   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 52.385   | -4.8  | 112   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 49.314   | 1.4   | 110   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 111   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 48.658   | 2.7   | 107   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.558   | 0.9   | 110   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 49.663   | 0.7   | 109   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 49.254   | 1.5#  | 109   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 98.350   | 1.7   | 109   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 49.088   | 1.8   | 108   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 49.912   | 0.2   | 109   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.929   | -3.9  | 110   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 107   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 50.555   | -1.1  | 109   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 54.905   | -9.8  | 113   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 54.931   | -9.9  | 116   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 54.843   | -9.7  | 113   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 50.667   | -1.3  | 109   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 50.206   | -0.4  | 108   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 49.844   | 0.3   | 108   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 49.978   | 0.0   | 107   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 55.004   | -10.0 | 116   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 49.784   | 0.4   | 108   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 49.755   | 0.5   | 108   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 49.639   | 0.7   | 107   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 49.548   | 0.9   | 107   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 49.570   | 0.9   | 106   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.390   | 1.2   | 108   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.099   | 1.8   | 107   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 49.151   | 1.7   | 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 | 49.352 | 1.3  | 106   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 49.345 | 1.3  | 107   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 52.929 | -5.9 | 113   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 50.780 | -1.6 | 107   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 49.506 | 1.0  | 104   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 49.274 | 1.5  | 108   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 49.735 | 0.5  | 106   | 0.00     |

(#) = Out of Range

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