

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv080320\  
 Data File : VY003429.D  
 Acq On : 03 Aug 2020 20:02  
 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: Aug 04 03:08:03 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y073120S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 31 13:09:26 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    | 97    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 45.757  | 8.5    | 91    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 37.485  | 25.0#  | 77    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 47.157  | 5.7#   | 93    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 90.919  | -81.8# | 187   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 49.051  | 1.9    | 96    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 49.353  | 1.3    | 95    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 53.736  | -7.5   | 104   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.583  | 0.8    | 96    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 2.713   | 94.6#  | 5     | 0.01     |
| 11 T  | Tert butyl alcohol          | 250.000 | 279.266 | -11.7  | 115   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.628  | 0.7#   | 95    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 223.937 | 10.4   | 93    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 49.506  | 1.0    | 95    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 277.601 | -11.0  | 109   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 249.664 | 0.1    | 96    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 48.666  | 2.7    | 93    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 54.727  | -9.5   | 115   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 55.079  | -10.2  | 107   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 47.042  | 5.9    | 89    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 50.683  | -1.4   | 99    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 53.139  | -6.3   | 102   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 273.765 | -9.5   | 104   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 51.841  | -3.7   | 100   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 271.383 | -8.6   | 106   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 47.376  | 5.2    | 91    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 53.028  | -6.1   | 102   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 51.834  | -3.7   | 105   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 276.699 | -10.7  | 109   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 53.364  | -6.7#  | 102   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 46.664  | 6.7    | 93    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 51.089  | -2.2   | 98    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 53.172  | -6.3   | 97    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 101   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 52.127  | -4.3   | 97    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 48.502  | 3.0    | 95    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 53.376  | -6.8   | 108   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 48.854  | 2.3    | 96    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 48.731  | 2.5    | 95    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 50.409  | -0.8   | 100   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 55.548  | -11.1  | 102   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 52.579  | -5.2   | 105   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 53.641  | -7.3   | 108   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 50.386  | -0.8   | 99    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.152  | -2.3#  | 101   | 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   | 53.471   | -6.9  | 108   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 52.542   | -5.1  | 104   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 54.029   | -8.1  | 108   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1123.343 | -12.3 | 112   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.782   | -1.6  | 94    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 271.448  | -8.6  | 109   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.743   | -1.5# | 99    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 52.783   | -5.6  | 104   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 52.400   | -4.8  | 103   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 53.895   | -7.8  | 106   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 55.780   | -11.6 | 109   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 53.322   | -6.6  | 106   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 249.269  | 0.3   | 106   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 272.550  | -9.0  | 108   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 54.409   | -8.8  | 107   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 54.382   | -8.8  | 109   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 51.665   | -3.3  | 96    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 103   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 49.382   | 1.2   | 101   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 50.427   | -0.9  | 102   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 51.281   | -2.6  | 104   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 49.399   | 1.2#  | 99    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 99.074   | 0.9   | 99    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.450   | -0.9  | 100   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 51.631   | -3.3  | 101   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 52.606   | -5.2  | 107   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 104   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 49.229   | 1.5   | 99    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 52.886   | -5.8  | 108   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 52.776   | -5.6  | 109   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 52.185   | -4.4  | 110   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 50.014   | -0.0  | 102   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 49.172   | 1.7   | 98    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 49.560   | 0.9   | 101   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 49.999   | 0.0   | 100   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 52.611   | -5.2  | 110   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 49.584   | 0.8   | 100   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 49.424   | 1.2   | 99    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 50.269   | -0.5  | 100   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 49.958   | 0.1   | 99    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 49.927   | 0.1   | 99    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.192   | -0.4  | 102   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.915   | 0.2   | 101   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 49.573   | 0.9   | 98    | 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 | 50.838 | -1.7 | 102   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 51.148 | -2.3 | 103   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 52.624 | -5.2 | 111   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 51.115 | -2.2 | 103   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 49.135 | 1.7  | 99    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 53.718 | -7.4 | 108   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 52.023 | -4.0 | 103   | 0.00     |

(#) = Out of Range

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