

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD073020\  
 Data File : VD066120.D  
 Acq On : 30 Jul 2020 19:15  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 31 03:54:03 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D072120S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 21 12:34:13 2020  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | Amount  | Calc.   | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|---------|---------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 50.000  | 50.000  | 0.0    | 59    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 38.041  | 23.9#  | 48    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 44.661  | 10.7   | 56    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 46.247  | 7.5#   | 56    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 53.218  | -6.4   | 57    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 52.205  | -4.4   | 61    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 47.626  | 4.7    | 56    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 53.022  | -6.0   | 63    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 44.855  | 10.3   | 53    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 49.709  | 0.6    | 69    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 271.787 | -8.7   | 63    | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 45.565  | 8.9#   | 54    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 200.563 | 19.8   | 54    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 47.415  | 5.2    | 54    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 268.909 | -7.6   | 63    | -0.01    |
| 16 T  | Acetone                     | 250.000 | 216.735 | 13.3   | 49    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 40.125  | 19.8   | 47    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 54.399  | -8.8   | 68    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 59.541  | -19.1  | 69    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 52.757  | -5.5   | 62    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.846  | 0.3    | 59    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 51.702  | -3.4   | 59    | -0.01    |
| 23 T  | Vinyl Acetate               | 250.000 | 275.471 | -10.2  | 62    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 52.744  | -5.5   | 61    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 255.299 | -2.1   | 59    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 50.976  | -2.0   | 59    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 54.569  | -9.1   | 63    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 54.013  | -8.0   | 69    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 263.400 | -5.4   | 61    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 55.910  | -11.8# | 66    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 39.627  | 20.7#  | 48    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 54.561  | -9.1   | 64    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 59.122  | -18.2  | 79    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 62    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 54.325  | -8.7   | 78    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 47.275  | 5.5    | 57    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 55.066  | -10.1  | 68    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 50.936  | -1.9   | 61    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 44.473  | 11.1   | 52    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 50.670  | -1.3   | 61    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 52.576  | -5.2   | 62    | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 57.631  | -15.3  | 70    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 54.658  | -9.3   | 66    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 49.984  | 0.0    | 61    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.621  | -3.2#  | 62    | 0.00     |

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | Amount   | Calc.    | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 56.000   | -12.0 | 68    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 55.293   | -10.6 | 67    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 52.116   | -4.2  | 62    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1101.994 | -10.2 | 65    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 52.963   | -5.9  | 72    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 273.976  | -9.6  | 65    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 52.658   | -5.3# | 62    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 56.378   | -12.8 | 68    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 54.361   | -8.7  | 65    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 56.048   | -12.1 | 69    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 59.819   | -19.6 | 68    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 54.581   | -9.2  | 67    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 259.952  | -4.0  | 72    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 273.247  | -9.3  | 63    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 58.907   | -17.8 | 72    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 57.842   | -15.7 | 70    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 55.225   | -10.5 | 77    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 66    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 49.324   | 1.4   | 63    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 52.819   | -5.6  | 67    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 58.234   | -16.5 | 73    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 52.128   | -4.3# | 65    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 105.146  | -5.1  | 65    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 53.778   | -7.6  | 66    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 56.281   | -12.6 | 69    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 57.488   | -15.0 | 76    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 72    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 50.535   | -1.1  | 67    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 50.798   | -1.6  | 68    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 48.092   | 3.8   | 67    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 48.742   | 2.5   | 71    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 50.667   | -1.3  | 71    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 49.822   | 0.4   | 66    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 50.100   | -0.2  | 68    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.813   | -3.6  | 68    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 50.775   | -1.5  | 71    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.212   | -0.4  | 68    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 51.053   | -2.1  | 67    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 52.977   | -6.0  | 71    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 50.054   | -0.1  | 67    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 52.153   | -4.3  | 69    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.723   | -1.4  | 71    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 50.663   | -1.3  | 71    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 49.865   | 0.3   | 66    | 0.00     |

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 49.160 | 1.7   | 69    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 52.631 | -5.3  | 73    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 55.981 | -12.0 | 80    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 54.031 | -8.1  | 74    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 52.363 | -4.7  | 72    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 52.165 | -4.3  | 79    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 54.300 | -8.6  | 75    | 0.00     |

(#) = Out of Range

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