

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD081820\  
 Data File : VD066271.D  
 Acq On : 18 Aug 2020 12:06  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 18 13:57:28 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D080520S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 05 13:49:25 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   | 70    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 40.338  | 19.3  | 64    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 41.771  | 16.5  | 67    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 45.974  | 8.1#  | 71    | 0.01     |
| 5 T   | Bromomethane                | 50.000  | 52.298  | -4.6  | 77    | 0.01     |
| 6 T   | Chloroethane                | 50.000  | 49.435  | 1.1   | 76    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 48.896  | 2.2   | 74    | 0.01     |
| 8 T   | Diethyl Ether               | 50.000  | 46.354  | 7.3   | 67    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 47.168  | 5.7   | 70    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 50.348  | -0.7  | 83    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 192.558 | 23.0# | 59    | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 47.076  | 5.8#  | 69    | 0.01     |
| 13 T  | Acrolein                    | 250.000 | 205.321 | 17.9  | 64    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 45.074  | 9.9   | 65    | 0.01     |
| 15 T  | Acrylonitrile               | 250.000 | 240.414 | 3.8   | 69    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 271.838 | -8.7  | 75    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 40.968  | 18.1  | 61    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 46.114  | 7.8   | 71    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 50.373  | -0.7  | 73    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 51.570  | -3.1  | 72    | 0.01     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 46.418  | 7.2   | 68    | 0.01     |
| 22 T  | Diisopropyl ether           | 50.000  | 49.360  | 1.3   | 71    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 240.374 | 3.9   | 68    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 48.971  | 2.1   | 72    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 228.342 | 8.7   | 67    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 52.031  | -4.1  | 78    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 49.740  | 0.5   | 72    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 50.480  | -1.0  | 71    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 228.156 | 8.7   | 64    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 52.358  | -4.7# | 77    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 42.169  | 15.7  | 65    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 51.917  | -3.8  | 75    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 54.935  | -9.9  | 76    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 70    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 53.881  | -7.8  | 73    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 48.952  | 2.1   | 70    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 47.845  | 4.3   | 71    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 52.595  | -5.2  | 77    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 46.336  | 7.3   | 66    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.015  | 2.0   | 71    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 47.529  | 4.9   | 70    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 52.257  | -4.5  | 76    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 46.906  | 6.2   | 68    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 49.889  | 0.2   | 72    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.626  | 0.7#  | 72    | 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   | 52.417  | -4.8  | 73    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 52.332  | -4.7  | 75    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 47.584  | 4.8   | 65    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 908.131 | 9.2   | 64    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 52.413  | -4.8  | 70    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 237.805 | 4.9   | 68    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.681  | -1.4# | 72    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 52.133  | -4.3  | 74    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 51.681  | -3.4  | 73    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 50.911  | -1.8  | 74    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 50.408  | -0.8  | 69    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 50.114  | -0.2  | 71    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 270.107 | -8.0  | 74    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 239.153 | 4.3   | 67    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 51.636  | -3.3  | 73    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 50.486  | -1.0  | 72    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 55.447  | -10.9 | 76    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 70    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 48.678  | 2.6   | 72    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 50.819  | -1.6  | 74    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 52.289  | -4.6  | 76    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 51.660  | -3.3# | 74    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 102.139 | -2.1  | 73    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 51.548  | -3.1  | 73    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 52.349  | -4.7  | 74    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 49.844  | 0.3   | 73    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 71    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 51.241  | -2.5  | 73    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 48.038  | 3.9   | 67    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 48.271  | 3.5   | 73    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 43.825  | 12.3  | 67    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 50.600  | -1.2  | 73    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 51.101  | -2.2  | 74    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 51.210  | -2.4  | 74    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 52.687  | -5.4  | 75    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 48.683  | 2.6   | 70    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 52.318  | -4.6  | 75    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 52.036  | -4.1  | 73    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 52.816  | -5.6  | 75    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 52.458  | -4.9  | 75    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 52.681  | -5.4  | 75    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.917  | -1.8  | 75    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 51.200  | -2.4  | 75    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 52.914  | -5.8  | 75    | 0.00     |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 51.965 | -3.9 | 77    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 50.735 | -1.5 | 75    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 51.429 | -2.9 | 79    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 51.211 | -2.4 | 73    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 53.876 | -7.8 | 79    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 51.162 | -2.3 | 71    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 50.452 | -0.9 | 72    | 0.00     |

(#) = Out of Range

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