

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD120320\  
 Data File : VD067857.D  
 Acq On : 03 Dec 2020 09:51  
 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: Dec 03 14:32:57 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D120120S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 02 08:05:58 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    | 94    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 54.874  | -9.7   | 103   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 45.291  | 9.4    | 89    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 53.140  | -6.3#  | 105   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 66.560  | -33.1# | 136   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 52.185  | -4.4   | 99    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 52.672  | -5.3   | 106   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 49.693  | 0.6    | 100   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 52.826  | -5.7   | 104   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 41.874  | 16.3   | 76    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 241.820 | 3.3    | 95    | 0.01     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 50.598  | -1.2#  | 100   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 224.339 | 10.3   | 84    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 51.174  | -2.3   | 97    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 240.429 | 3.8    | 91    | -0.01    |
| 16 T  | Acetone                     | 250.000 | 282.256 | -12.9  | 97    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 50.914  | -1.8   | 101   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 49.646  | 0.7    | 94    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 52.778  | -5.6   | 97    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 54.090  | -8.2   | 101   | 0.01     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 50.328  | -0.7   | 98    | 0.01     |
| 22 T  | Diisopropyl ether           | 50.000  | 51.752  | -3.5   | 97    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 269.670 | -7.9   | 95    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 51.936  | -3.9   | 99    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 247.090 | 1.2    | 89    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 53.687  | -7.4   | 106   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 51.417  | -2.8   | 99    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 48.499  | 3.0    | 97    | -0.01    |
| 29 T  | Tetrahydrofuran             | 250.000 | 244.473 | 2.2    | 89    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 50.604  | -1.2#  | 99    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 49.555  | 0.9    | 104   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 52.709  | -5.4   | 105   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 48.577  | 2.8    | 91    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 93    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 51.839  | -3.7   | 94    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 54.800  | -9.6   | 103   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 48.644  | 2.7    | 91    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 53.713  | -7.4   | 103   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 55.185  | -10.4  | 103   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 54.413  | -8.8   | 103   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 50.157  | -0.3   | 79    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 52.877  | -5.8   | 97    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 50.884  | -1.8   | 92    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 52.445  | -4.9   | 100   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.170  | -2.3#  | 99    | 0.00     |

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 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) |
|-------|-----------------------------|----------|---------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 52.131  | -4.3  | 97    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 53.158  | -6.3  | 102   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 49.922  | 0.2   | 93    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 898.970 | 10.1  | 85    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 52.944  | -5.9  | 97    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 255.130 | -2.1  | 92    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 53.636  | -7.3# | 101   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 52.777  | -5.6  | 98    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 54.107  | -8.2  | 101   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 52.006  | -4.0  | 102   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 51.399  | -2.8  | 93    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 50.141  | -0.3  | 98    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 257.088 | -2.8  | 86    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 276.613 | -10.6 | 96    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 53.914  | -7.8  | 104   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 50.081  | -0.2  | 97    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 54.085  | -8.2  | 99    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 96    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 51.381  | -2.8  | 106   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 51.978  | -4.0  | 103   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 53.045  | -6.1  | 106   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 54.051  | -8.1# | 105   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 106.849 | -6.8  | 104   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 56.016  | -12.0 | 107   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 54.345  | -8.7  | 103   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 50.723  | -1.4  | 94    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 100   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 52.850  | -5.7  | 106   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 48.314  | 3.4   | 94    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 47.332  | 5.3   | 96    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 46.546  | 6.9   | 99    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 50.897  | -1.8  | 101   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 52.427  | -4.9  | 104   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 52.225  | -4.5  | 105   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 53.185  | -6.4  | 105   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 45.685  | 8.6   | 92    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.583  | -3.2  | 104   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 53.474  | -6.9  | 102   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 52.953  | -5.9  | 103   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 52.519  | -5.0  | 106   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 51.816  | -3.6  | 103   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.640  | -1.3  | 105   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.601  | 0.8   | 105   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 53.292  | -6.6  | 104   | 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) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 52.331 | -4.7 | 110   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 49.383 | 1.2  | 100   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 47.801 | 4.4  | 97    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 51.541 | -3.1 | 101   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 52.984 | -6.0 | 106   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 50.553 | -1.1 | 96    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 51.052 | -2.1 | 100   | 0.00     |

(#) = Out of Range

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