

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081419\  
 Data File : VD063593.D  
 Acq On : 14 Aug 2019 23:56  
 Operator : JC/SY  
 Sample : VSTDCCC050  
 Misc : 5.00µl/5ml/MSVOA D/SOIL  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 15 12:04:21 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D080919S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Aug 10 06:42:47 2019  
 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    | 84    | -0.02    |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 45.224  | 9.6    | 77    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 47.244  | 5.5    | 84    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 46.502  | 7.0#   | 76    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 50.192  | -0.4   | 78    | -0.02    |
| 6 T   | Chloroethane                | 50.000  | 55.922  | -11.8  | 91    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 51.012  | -2.0   | 82    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 55.847  | -11.7  | 93    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 50.629  | -1.3   | 84    | -0.02    |
| 10 T  | Methyl Iodide               | 50.000  | 54.477  | -9.0   | 86    | -0.02    |
| 11 T  | Tert butyl alcohol          | 250.000 | 309.085 | -23.6# | 100   | -0.02    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 51.531  | -3.1#  | 81    | -0.02    |
| 13 T  | Acrolein                    | 250.000 | 249.879 | 0.0    | 91    | -0.02    |
| 14 T  | Allyl chloride              | 50.000  | 53.531  | -7.1   | 90    | -0.02    |
| 15 T  | Acrylonitrile               | 250.000 | 301.910 | -20.8# | 98    | -0.02    |
| 16 T  | Acetone                     | 250.000 | 252.605 | -1.0   | 75    | -0.02    |
| 17 T  | Carbon Disulfide            | 50.000  | 48.896  | 2.2    | 82    | -0.02    |
| 18 T  | Methyl Acetate              | 50.000  | 55.805  | -11.6  | 101   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 60.871  | -21.7# | 99    | -0.02    |
| 20 T  | Methylene Chloride          | 50.000  | 50.662  | -1.3   | 89    | -0.02    |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 54.358  | -8.7   | 86    | -0.02    |
| 22 T  | Diisopropyl ether           | 50.000  | 57.778  | -15.6  | 95    | -0.02    |
| 23 T  | Vinyl Acetate               | 250.000 | 305.387 | -22.2# | 101   | -0.02    |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 55.257  | -10.5  | 92    | -0.02    |
| 25 T  | 2-Butanone                  | 250.000 | 287.790 | -15.1  | 93    | -0.02    |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 48.709  | 2.6    | 81    | -0.02    |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 55.155  | -10.3  | 90    | -0.02    |
| 28 T  | Bromochloromethane          | 50.000  | 54.380  | -8.8   | 88    | -0.02    |
| 29    | Tetrahydrofuran             | 250.000 | 307.686 | -23.1# | 101   | -0.02    |
| 30 C  | Chloroform                  | 50.000  | 53.612  | -7.2#  | 90    | -0.02    |
| 31 T  | Cyclohexane                 | 50.000  | 49.419  | 1.2    | 78    | -0.02    |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 52.355  | -4.7   | 86    | -0.02    |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 55.601  | -11.2  | 81    | -0.02    |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 92    | -0.02    |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.214  | -0.4   | 78    | -0.02    |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 50.513  | -1.0   | 88    | -0.02    |
| 37 T  | Ethyl Acetate               | 50.000  | 54.731  | -9.5   | 97    | -0.03    |
| 38 T  | Carbon Tetrachloride        | 50.000  | 50.532  | -1.1   | 82    | -0.02    |
| 39 T  | Methylcyclohexane           | 50.000  | 47.097  | 5.8    | 78    | -0.02    |
| 40 TM | Benzene                     | 50.000  | 50.702  | -1.4   | 87    | -0.02    |
| 41 T  | Methacrylonitrile           | 50.000  | 58.949  | -17.9  | 102   | -0.02    |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 52.521  | -5.0   | 91    | -0.02    |
| 43 T  | Isopropyl Acetate           | 50.000  | 56.632  | -13.3  | 100   | -0.02    |
| 44 TM | Trichloroethene             | 50.000  | 50.274  | -0.5   | 92    | -0.02    |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 53.233  | -6.5#  | 95    | -0.02    |

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 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 15 12:04:21 2019  
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 Quant Title : SW846 8260  
 QLast Update : Sat Aug 10 06:42:47 2019  
 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) |
|-------|-----------------------------|----------|----------|--------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 55.827   | -11.7  | 96    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 55.355   | -10.7  | 99    | -0.02    |
| 48 T  | Methyl methacrylate         | 50.000   | 56.155   | -12.3  | 99    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1014.374 | -1.4   | 90    | -0.02    |
| 50 S  | Toluene-d8                  | 50.000   | 53.585   | -7.2   | 81    | -0.02    |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 286.950  | -14.8  | 106   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.771   | -1.5#  | 93    | -0.02    |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 52.953   | -5.9   | 92    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 52.990   | -6.0   | 91    | -0.02    |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 54.608   | -9.2   | 98    | -0.02    |
| 56 T  | Ethyl methacrylate          | 50.000   | 57.012   | -14.0  | 97    | -0.02    |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 54.750   | -9.5   | 96    | -0.02    |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 276.778  | -10.7  | 88    | -0.02    |
| 59 T  | 2-Hexanone                  | 250.000  | 291.706  | -16.7  | 96    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 55.482   | -11.0  | 97    | -0.02    |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 54.938   | -9.9   | 98    | -0.02    |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 48.899   | 2.2    | 83    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 91    | -0.02    |
| 64 T  | Tetrachloroethene           | 50.000   | 53.058   | -6.1   | 95    | -0.02    |
| 65 PM | Chlorobenzene               | 50.000   | 51.287   | -2.6   | 92    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 51.030   | -2.1   | 91    | -0.02    |
| 67 C  | Ethyl Benzene               | 50.000   | 48.739   | 2.5#   | 87    | -0.02    |
| 68 T  | m/p-Xylenes                 | 100.000  | 100.131  | -0.1   | 91    | -0.02    |
| 69 T  | o-Xylene                    | 50.000   | 51.820   | -3.6   | 93    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 50.701   | -1.4   | 93    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 57.112   | -14.2  | 100   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 87    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 50.574   | -1.1   | 84    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 59.425   | -18.8  | 99    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 61.547   | -23.1# | 103   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 53.267   | -6.5   | 90    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 53.325   | -6.7   | 92    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 46.906   | 6.2    | 81    | -0.02    |
| 79 T  | 2-Chlorotoluene             | 50.000   | 51.853   | -3.7   | 91    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 50.900   | -1.8   | 86    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 55.268   | -10.5  | 93    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 53.106   | -6.2   | 91    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 55.443   | -10.9  | 95    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 57.216   | -14.4  | 96    | -0.02    |
| 85 T  | sec-Butylbenzene            | 50.000   | 49.307   | 1.4    | 89    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 52.116   | -4.2   | 86    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 51.246   | -2.5   | 89    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 54.190   | -8.4   | 93    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 49.143   | 1.7    | 87    | -0.02    |

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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 : 20% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 53.995 | -8.0  | 93    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 52.745 | -5.5  | 92    | -0.02    |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 56.199 | -12.4 | 98    | -0.02    |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 50.671 | -1.3  | 83    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 53.045 | -6.1  | 89    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 55.297 | -10.6 | 96    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 54.562 | -9.1  | 95    | 0.00     |

(#) = Out of Range

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