

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD042219\  
 Data File : VD061933.D  
 Acq On : 22 Apr 2019 12:16  
 Operator : VA/AP  
 Sample : VSTDCCC050  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Apr 22 23:36:36 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D041519S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 18 13:49:04 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   | 109   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 48.513  | 3.0   | 105   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 46.616  | 6.8   | 109   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 46.442  | 7.1#  | 97    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 47.620  | 4.8   | 92    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 50.488  | -1.0  | 92    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 43.302  | 13.4  | 94    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 39.580  | 20.8# | 84    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 42.912  | 14.2  | 98    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 40.167  | 19.7  | 86    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 232.838 | 6.9   | 101   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 42.376  | 15.2# | 95    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 198.014 | 20.8# | 99    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 43.126  | 13.7  | 93    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 206.420 | 17.4  | 91    | 0.02     |
| 16 T  | Acetone                     | 250.000 | 254.336 | -1.7  | 106   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 40.463  | 19.1  | 87    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 39.676  | 20.6# | 92    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 47.597  | 4.8   | 104   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 44.223  | 11.6  | 98    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 45.390  | 9.2   | 98    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 50.384  | -0.8  | 107   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 252.469 | -1.0  | 109   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 49.368  | 1.3   | 110   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 248.105 | 0.8   | 111   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 50.834  | -1.7  | 114   | 0.02     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 47.739  | 4.5   | 106   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 47.255  | 5.5   | 107   | 0.00     |
| 29    | Tetrahydrofuran             | 250.000 | 249.401 | 0.2   | 108   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 50.375  | -0.8# | 107   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 46.666  | 6.7   | 97    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 51.873  | -3.7  | 112   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 49.836  | 0.3   | 117   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 102   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 52.088  | -4.2  | 116   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 52.538  | -5.1  | 109   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 50.992  | -2.0  | 106   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 53.636  | -7.3  | 112   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 54.245  | -8.5  | 113   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 53.167  | -6.3  | 105   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 52.612  | -5.2  | 111   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 53.514  | -7.0  | 114   | 0.02     |
| 43 T  | Isopropyl Acetate           | 50.000  | 53.308  | -6.6  | 106   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 51.416  | -2.8  | 104   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.685  | -1.4# | 106   | 0.00     |

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 VSTDCCC050

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 QLast Update : Thu Apr 18 13:49:04 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   | 53.947   | -7.9  | 109   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 55.351   | -10.7 | 109   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 54.651   | -9.3  | 108   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1088.732 | -8.9  | 105   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 51.444   | -2.9  | 114   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 262.911  | -5.2  | 108   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 52.878   | -5.8# | 113   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 52.386   | -4.8  | 104   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 52.977   | -6.0  | 106   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 51.874   | -3.7  | 108   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 53.515   | -7.0  | 118   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 56.508   | -13.0 | 121   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 243.419  | 2.6   | 118   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 267.096  | -6.8  | 113   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 55.044   | -10.1 | 106   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 52.209   | -4.4  | 107   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 51.137   | -2.3  | 119   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 99    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 48.840   | 2.3   | 98    | 0.02     |
| 65 PM | Chlorobenzene               | 50.000   | 54.507   | -9.0  | 111   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 52.429   | -4.9  | 107   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 50.198   | -0.4# | 107   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 108.480  | -8.5  | 106   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 53.024   | -6.0  | 116   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 54.351   | -8.7  | 114   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 58.147   | -16.3 | 114   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 111   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 48.828   | 2.3   | 112   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 47.400   | 5.2   | 109   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 47.867   | 4.3   | 99    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 51.364   | -2.7  | 108   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 47.412   | 5.2   | 102   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 49.637   | 0.7   | 104   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 49.606   | 0.8   | 110   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 52.335   | -4.7  | 124   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 48.353   | 3.3   | 114   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 49.715   | 0.6   | 116   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 51.926   | -3.9  | 109   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 52.373   | -4.7  | 109   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 48.193   | 3.6   | 106   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 50.123   | -0.2  | 109   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.758   | 0.5   | 107   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 50.309   | -0.6  | 108   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 50.723   | -1.4  | 111   | 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 | 52.152 | -4.3 | 106   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 48.255 | 3.5  | 106   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 48.550 | 2.9  | 101   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 48.490 | 3.0  | 109   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 52.662 | -5.3 | 113   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 52.137 | -4.3 | 103   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 45.973 | 8.1  | 97    | 0.02     |

(#) = Out of Range

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