

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061918\  
 Data File : VD058202.D  
 Acq On : 19 Jun 2018 19:38  
 Operator : VA/AP  
 Sample : VSTDICV050  
 Misc : 5.00µl/5ml/MSVOA D/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleID :  
 ICVVD061918

Quant Time: Jun 20 05:57:13 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D061918S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 20 05:52:56 2018  
 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    | 101   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 51.292  | -2.6   | 98    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 52.110  | -4.2   | 103   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 50.775  | -1.5#  | 106   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 60.014  | -20.0# | 113   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 53.194  | -6.4   | 103   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 50.023  | -0.0   | 106   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 55.844  | -11.7  | 109   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.986  | 0.0    | 103   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 52.292  | -4.6   | 101   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 231.078 | 7.6    | 89    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 48.883  | 2.2#   | 100   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 196.593 | 21.4#  | 114   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 50.505  | -1.0   | 100   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 256.967 | -2.8   | 98    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 231.435 | 7.4    | 87    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 49.194  | 1.6    | 103   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 49.966  | 0.1    | 100   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 53.281  | -6.6   | 104   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 51.990  | -4.0   | 102   | 0.01     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 48.626  | 2.7    | 104   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 49.526  | 0.9    | 100   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 259.507 | -3.8   | 98    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 49.302  | 1.4    | 101   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 248.338 | 0.7    | 95    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 47.363  | 5.3    | 98    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 49.793  | 0.4    | 102   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 51.344  | -2.7   | 99    | 0.00     |
| 29    | Tetrahydrofuran             | 250.000 | 257.338 | -2.9   | 94    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 49.009  | 2.0#   | 99    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 50.552  | -1.1   | 94    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 48.682  | 2.6    | 97    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 55.139  | -10.3  | 102   | 0.01     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 100   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 52.383  | -4.8   | 98    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 47.358  | 5.3    | 98    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 49.870  | 0.3    | 93    | 0.01     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 50.580  | -1.2   | 102   | 0.01     |
| 39 T  | Methylcyclohexane           | 50.000  | 47.938  | 4.1    | 99    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 46.985  | 6.0    | 98    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 54.104  | -8.2   | 108   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 50.257  | -0.5   | 99    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 51.502  | -3.0   | 94    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 48.031  | 3.9    | 99    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 47.241  | 5.5#   | 93    | 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   | 50.970   | -1.9 | 97    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 51.625   | -3.3 | 102   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 48.451   | 3.1  | 91    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1070.931 | -7.1 | 92    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 52.137   | -4.3 | 97    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 253.189  | -1.3 | 94    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 47.166   | 5.7# | 98    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 49.601   | 0.8  | 96    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 48.014   | 4.0  | 91    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 49.016   | 2.0  | 97    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 50.890   | -1.8 | 94    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 50.091   | -0.2 | 101   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 245.200  | 1.9  | 91    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 254.984  | -2.0 | 97    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 52.361   | -4.7 | 99    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 50.324   | -0.6 | 95    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 52.384   | -4.8 | 101   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0  | 99    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 50.071   | -0.1 | 102   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 47.344   | 5.3  | 98    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 49.940   | 0.1  | 98    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 47.344   | 5.3# | 99    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 97.438   | 2.6  | 105   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 49.670   | 0.7  | 106   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 47.983   | 4.0  | 100   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 54.796   | -9.6 | 97    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0  | 107   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 47.063   | 5.9  | 103   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 50.440   | -0.9 | 96    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 46.293   | 7.4  | 93    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 47.233   | 5.5  | 94    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 49.601   | 0.8  | 106   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 45.383   | 9.2  | 98    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 45.878   | 8.2  | 97    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 46.054   | 7.9  | 99    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 52.869   | -5.7 | 94    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 53.097   | -6.2 | 100   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 47.579   | 4.8  | 102   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 45.660   | 8.7  | 98    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 46.437   | 7.1  | 97    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 47.853   | 4.3  | 104   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 46.636   | 6.7  | 101   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 47.537   | 4.9  | 102   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 44.736   | 10.5 | 99    | 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 | 49.099 | 1.8  | 99    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 45.477 | 9.0  | 99    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 52.475 | -5.0 | 98    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 46.380 | 7.2  | 96    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 47.999 | 4.0  | 102   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 48.875 | 2.3  | 95    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 46.411 | 7.2  | 95    | 0.00     |

(#) = Out of Range

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