

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD062018\  
 Data File : VD058225.D  
 Acq On : 20 Jun 2018 23:51  
 Operator : VA/AP  
 Sample : VSTDCCC050  
 Misc : 5.00q/5ml/MSVOA D/SOIL  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 21 01:28:43 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    | 98    | 0.01     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 52.108  | -4.2   | 97    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 58.038  | -16.1  | 110   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 51.206  | -2.4#  | 103   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 55.474  | -10.9  | 103   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 56.044  | -12.1  | 104   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 51.876  | -3.8   | 106   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 48.827  | 2.3    | 92    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 53.583  | -7.2   | 106   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 54.676  | -9.4   | 102   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 267.599 | -7.0   | 100   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 51.509  | -3.0#  | 102   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 325.006 | -30.0# | 182   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 53.221  | -6.4   | 102   | 0.01     |
| 15 T  | Acrylonitrile               | 250.000 | 264.346 | -5.7   | 97    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 237.367 | 5.1    | 86    | 0.01     |
| 17 T  | Carbon Disulfide            | 50.000  | 50.037  | -0.1   | 101   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 51.583  | -3.2   | 100   | 0.01     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 58.872  | -17.7  | 111   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 53.924  | -7.8   | 102   | 0.01     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 48.690  | 2.6    | 100   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 52.064  | -4.1   | 102   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 266.464 | -6.6   | 97    | 0.01     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 53.101  | -6.2   | 105   | 0.01     |
| 25 T  | 2-Butanone                  | 250.000 | 265.380 | -6.2   | 98    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 46.940  | 6.1    | 94    | 0.01     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 52.130  | -4.3   | 104   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 52.969  | -5.9   | 99    | 0.00     |
| 29    | Tetrahydrofuran             | 250.000 | 256.465 | -2.6   | 91    | 0.01     |
| 30 C  | Chloroform                  | 50.000  | 52.600  | -5.2#  | 103   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 54.842  | -9.7   | 97    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 52.550  | -5.1   | 102   | 0.01     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 54.007  | -8.0   | 96    | 0.01     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 96    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 55.294  | -10.6  | 100   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 47.269  | 5.5    | 94    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 49.440  | 1.1    | 89    | 0.01     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 50.170  | -0.3   | 97    | 0.01     |
| 39 T  | Methylcyclohexane           | 50.000  | 51.098  | -2.2   | 101   | 0.01     |
| 40 TM | Benzene                     | 50.000  | 50.682  | -1.4   | 102   | 0.01     |
| 41 T  | Methacrylonitrile           | 50.000  | 53.162  | -6.3   | 102   | 0.01     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 52.439  | -4.9   | 100   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 53.182  | -6.4   | 93    | 0.01     |
| 44 TM | Trichloroethene             | 50.000  | 50.227  | -0.5   | 100   | 0.01     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 52.359  | -4.7#  | 99    | 0.00     |

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 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
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 LabSampleId :  
 VSTDCCC050

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 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) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 53.478   | -7.0  | 98    | 0.01     |
| 47 T  | Bromodichloromethane        | 50.000   | 52.999   | -6.0  | 101   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 51.388   | -2.8  | 93    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1069.617 | -7.0  | 88    | 0.01     |
| 50 S  | Toluene-d8                  | 50.000   | 54.143   | -8.3  | 97    | 0.01     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 269.275  | -7.7  | 96    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 51.505   | -3.0# | 103   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 53.767   | -7.5  | 101   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.991   | -2.0  | 93    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 52.717   | -5.4  | 101   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 51.824   | -3.6  | 93    | 0.01     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 50.952   | -1.9  | 99    | 0.01     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 258.009  | -3.2  | 92    | 0.01     |
| 59 T  | 2-Hexanone                  | 250.000  | 255.065  | -2.0  | 93    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 54.924   | -9.8  | 99    | 0.01     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 53.294   | -6.6  | 97    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 55.533   | -11.1 | 103   | 0.01     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 97    | 0.01     |
| 64 T  | Tetrachloroethene           | 50.000   | 53.925   | -7.8  | 107   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 51.829   | -3.7  | 105   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 51.972   | -3.9  | 100   | 0.01     |
| 67 C  | Ethyl Benzene               | 50.000   | 49.655   | 0.7#  | 102   | 0.01     |
| 68 T  | m/p-Xylenes                 | 100.000  | 102.297  | -2.3  | 107   | 0.01     |
| 69 T  | o-Xylene                    | 50.000   | 51.410   | -2.8  | 107   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 49.170   | 1.7   | 100   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 55.280   | -10.6 | 96    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 99    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 49.664   | 0.7   | 101   | 0.01     |
| 74 T  | N-amyl acetate              | 50.000   | 52.276   | -4.6  | 93    | 0.01     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 52.194   | -4.4  | 97    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 49.945   | 0.1   | 92    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 52.099   | -4.2  | 103   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 51.388   | -2.8  | 104   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 51.472   | -2.9  | 102   | 0.01     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.670   | -3.3  | 104   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 53.389   | -6.8  | 89    | 0.01     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 58.935   | -17.9 | 102   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 49.406   | 1.2   | 98    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 48.528   | 2.9   | 97    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 48.607   | 2.8   | 95    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 53.658   | -7.3  | 109   | 0.01     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.406   | -0.8  | 102   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.850   | 0.3   | 100   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 46.446   | 7.1   | 96    | 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 : 20% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 53.841 | -7.7 | 101   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 47.961 | 4.1  | 97    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 51.757 | -3.5 | 90    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 51.387 | -2.8 | 99    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 50.409 | -0.8 | 100   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 53.366 | -6.7 | 96    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 52.311 | -4.6 | 100   | 0.00     |

(#) = Out of Range

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