

Data Path : Z:\voasrv\HPCHEM1\MSVOA F\Data\VF062918\  
 Data File : VF059376.D  
 Acq On : 29 Jun 2018 14:13  
 Operator : VA/AP  
 Sample : VSTDCCC050  
 Misc : 5.00g/5mL/MSVOA-F/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 29 23:51:08 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F062518S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 26 08:45:17 2018  
 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    | 111   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 41.006  | 18.0   | 91    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 44.783  | 10.4   | 106   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 47.842  | 4.3#   | 108   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 61.442  | -22.9  | 116   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 51.040  | -2.1   | 114   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 47.537  | 4.9    | 102   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 46.951  | 6.1    | 112   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 47.715  | 4.6    | 110   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 46.926  | 6.1    | 105   | -0.01    |
| 11 T  | Tert butyl alcohol          | 250.000 | 229.148 | 8.3    | 99    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.406  | 1.2#   | 110   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 400.758 | -60.3# | 170   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 51.006  | -2.0   | 112   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 267.996 | -7.2   | 119   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 290.645 | -16.3  | 118   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 45.456  | 9.1    | 102   | 0.03     |
| 18 T  | Methyl Acetate              | 50.000  | 55.030  | -10.1  | 118   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 49.264  | 1.5    | 111   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 44.379  | 11.2   | 101   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 48.800  | 2.4    | 114   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 51.290  | -2.6   | 115   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 251.138 | -0.5   | 108   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 47.765  | 4.5    | 108   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 283.307 | -13.3  | 120   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 48.117  | 3.8    | 108   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 49.206  | 1.6    | 113   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 48.827  | 2.3    | 104   | 0.00     |
| 29    | Tetrahydrofuran             | 250.000 | 293.006 | -17.2  | 123   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 46.610  | 6.8#   | 105   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 47.542  | 4.9    | 109   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 46.435  | 7.1    | 105   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 42.691  | 14.6   | 100   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 108   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 45.836  | 8.3    | 105   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 46.362  | 7.3    | 106   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 58.845  | -17.7  | 118   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 44.441  | 11.1   | 99    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 46.357  | 7.3    | 105   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.024  | 2.0    | 111   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 50.176  | -0.4   | 108   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 47.517  | 5.0    | 104   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 54.070  | -8.1   | 117   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 46.017  | 8.0    | 104   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.907  | -3.8#  | 118   | 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) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 48.854   | 2.3   | 103   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 49.078   | 1.8   | 105   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 55.516   | -11.0 | 117   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1056.787 | -5.7  | 107   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 45.899   | 8.2   | 103   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 263.192  | -5.3  | 112   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 46.860   | 6.3#  | 104   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 48.877   | 2.2   | 106   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.271   | -0.5  | 105   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 49.775   | 0.5   | 104   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 51.210   | -2.4  | 106   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 49.488   | 1.0   | 108   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 235.161  | 5.9   | 103   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 299.334  | -19.7 | 114   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 50.544   | -1.1  | 102   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 48.566   | 2.9   | 101   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 44.861   | 10.3  | 102   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 105   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 46.756   | 6.5   | 99    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 48.353   | 3.3   | 107   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 46.643   | 6.7   | 102   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 48.152   | 3.7#  | 108   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 96.291   | 3.7   | 108   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 47.128   | 5.7   | 102   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 47.552   | 4.9   | 103   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.645   | -3.3  | 107   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 101   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 50.333   | -0.7  | 104   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 53.078   | -6.2  | 108   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 50.007   | -0.0  | 101   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 49.991   | 0.0   | 104   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 47.806   | 4.4   | 100   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 48.823   | 2.4   | 106   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 47.075   | 5.8   | 103   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 48.229   | 3.5   | 103   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 52.752   | -5.5  | 107   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 48.591   | 2.8   | 102   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 48.768   | 2.5   | 101   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 48.107   | 3.8   | 101   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 47.459   | 5.1   | 99    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 49.863   | 0.3   | 104   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 53.801   | -7.6  | 103   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.280   | 1.4   | 106   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 47.763   | 4.5   | 104   | 0.00     |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 48.246 | 3.5  | 101   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 47.513 | 5.0  | 99    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 51.525 | -3.0 | 100   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 50.600 | -1.2 | 102   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 52.998 | -6.0 | 110   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 52.198 | -4.4 | 100   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 51.037 | -2.1 | 100   | 0.00     |

(#) = Out of Range

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