

Data Path : W:\HPCHEM1\MSVOA F\DATA\VF091715\  
 Data File : VF045416.D  
 Acq On : 17 Sep 2015 19:48  
 Operator : FY/SY  
 Sample : VSTDCCC050  
 Misc : 5.00µ/5mL/MSVOA F/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 18 04:29:58 2015  
 Quant Method : W:\HPCHEM1\MSVOA\_F\METHODS\82F091615S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 16 16:04:03 2015  
 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   | 93    | 0.02     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 49.684  | 0.6   | 91    | 0.02     |
| 3 P   | Chloromethane               | 50.000  | 50.990  | -2.0  | 88    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 50.744  | -1.5# | 94    | 0.02     |
| 5 T   | Bromomethane                | 50.000  | 47.010  | 6.0   | 83    | 0.02     |
| 6 T   | Chloroethane                | 50.000  | 52.371  | -4.7  | 88    | 0.02     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 51.232  | -2.5  | 90    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 49.984  | 0.0   | 82    | 0.02     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 50.550  | -1.1  | 89    | 0.02     |
| 10 T  | Methyl Iodide               | 50.000  | 48.772  | 2.5   | 86    | 0.02     |
| 11 T  | Tert butyl alcohol          | 250.000 | 256.240 | -2.5  | 89    | 0.02     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 47.952  | 4.1#  | 86    | 0.02     |
| 13 T  | Acrolein                    | 250.000 | 244.289 | 2.3   | 77    | 0.02     |
| 14 T  | Allyl chloride              | 50.000  | 49.181  | 1.6   | 84    | 0.02     |
| 15 T  | Acrylonitrile               | 250.000 | 271.130 | -8.5  | 90    | 0.02     |
| 16 T  | Acetone                     | 250.000 | 219.135 | 12.3  | 66    | 0.02     |
| 17 T  | Carbon Disulfide            | 50.000  | 49.112  | 1.8   | 87    | 0.02     |
| 18 T  | Methyl Acetate              | 50.000  | 52.712  | -5.4  | 84    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 54.181  | -8.4  | 94    | 0.02     |
| 20 T  | Methylene Chloride          | 50.000  | 49.917  | 0.2   | 90    | 0.02     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 50.525  | -1.0  | 90    | 0.02     |
| 22 T  | Diisopropyl ether           | 50.000  | 48.852  | 2.3   | 83    | 0.02     |
| 23 T  | Vinyl Acetate               | 250.000 | 246.437 | 1.4   | 82    | 0.02     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 50.202  | -0.4  | 88    | 0.02     |
| 25 T  | 2-Butanone                  | 250.000 | 241.578 | 3.4   | 77    | 0.02     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 47.299  | 5.4   | 87    | 0.02     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 54.451  | -8.9  | 93    | 0.02     |
| 28 T  | Bromochloromethane          | 50.000  | 44.935  | 10.1  | 84    | 0.02     |
| 29 C  | Chloroform                  | 50.000  | 51.299  | -2.6# | 90    | 0.02     |
| 30 T  | Cyclohexane                 | 50.000  | 51.830  | -3.7  | 91    | 0.02     |
| 31 T  | 1,1,1-Trichloroethane       | 50.000  | 48.612  | 2.8   | 87    | 0.02     |
| 32 S  | 1,2-Dichloroethane-d4       | 50.000  | 53.216  | -6.4  | 94    | 0.02     |
| 33 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 96    | 0.02     |
| 34 S  | Dibromofluoromethane        | 50.000  | 48.936  | 2.1   | 92    | 0.02     |
| 35 T  | 1,1-Dichloropropene         | 50.000  | 49.404  | 1.2   | 92    | 0.02     |
| 36 T  | Ethyl Acetate               | 50.000  | 44.924  | 10.2  | 76    | 0.02     |
| 37 T  | Carbon Tetrachloride        | 50.000  | 45.414  | 9.2   | 86    | 0.02     |
| 38 T  | Methylcyclohexane           | 50.000  | 46.096  | 7.8   | 91    | 0.02     |
| 39 TM | Benzene                     | 50.000  | 47.175  | 5.7   | 90    | 0.02     |
| 40 T  | Methacrylonitrile           | 50.000  | 46.739  | 6.5   | 80    | 0.02     |
| 41 TM | 1,2-Dichloroethane          | 50.000  | 45.682  | 8.6   | 81    | 0.02     |
| 42 T  | Isopropyl Acetate           | 50.000  | 48.255  | 3.5   | 81    | 0.02     |
| 43 TM | Trichloroethene             | 50.000  | 49.323  | 1.4   | 94    | 0.02     |
| 44 C  | 1,2-Dichloropropane         | 50.000  | 46.896  | 6.2#  | 83    | 0.02     |
| 45 T  | Dibromomethane              | 50.000  | 47.614  | 4.8   | 83    | 0.02     |

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 Quant Title : SW846 8260  
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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 : 25% Max. Rel. Area : 150%

|       | Compound                    | Amount   | Calc.   | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|----------|---------|-------|-------|----------|
| 46 T  | Bromodichloromethane        | 50.000   | 47.246  | 5.5   | 84    | 0.02     |
| 47 T  | Methyl methacrylate         | 50.000   | 48.552  | 2.9   | 83    | 0.02     |
| 48 T  | 1,4-Dioxane                 | 1000.000 | 963.610 | 3.6   | 87    | 0.02     |
| 49 S  | Toluene-d8                  | 50.000   | 51.058  | -2.1  | 96    | 0.02     |
| 50 T  | 4-Methyl-2-Pentanone        | 250.000  | 238.231 | 4.7   | 80    | 0.02     |
| 51 CM | Toluene                     | 50.000   | 47.278  | 5.4#  | 89    | 0.02     |
| 52 T  | t-1,3-Dichloropropene       | 50.000   | 47.384  | 5.2   | 83    | 0.02     |
| 53 T  | cis-1,3-Dichloropropene     | 50.000   | 47.368  | 5.3   | 86    | 0.02     |
| 54 T  | 1,1,2-Trichloroethane       | 50.000   | 46.949  | 6.1   | 84    | 0.02     |
| 55 T  | Ethyl methacrylate          | 50.000   | 47.774  | 4.5   | 81    | 0.02     |
| 56 T  | 1,3-Dichloropropane         | 50.000   | 46.713  | 6.6   | 84    | 0.02     |
| 57 T  | 2-Chloroethyl Vinyl ether   | -1.000   | 0.000   | 0.0   | 0     | -7.56#   |
| 58 T  | 2-Hexanone                  | 250.000  | 223.707 | 10.5  | 74    | 0.02     |
| 59 T  | Dibromochloromethane        | 50.000   | 47.277  | 5.4   | 83    | 0.02     |
| 60 T  | 1,2-Dibromoethane           | 50.000   | 50.056  | -0.1  | 85    | 0.02     |
| 61 S  | 4-Bromofluorobenzene        | 50.000   | 47.170  | 5.7   | 87    | 0.02     |
| 62 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 87    | 0.02     |
| 63 T  | Tetrachloroethene           | 50.000   | 50.571  | -1.1  | 90    | 0.02     |
| 64 PM | Chlorobenzene               | 50.000   | 51.486  | -3.0  | 88    | 0.00     |
| 65 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 47.270  | 5.5   | 82    | 0.02     |
| 66 C  | Ethyl Benzene               | 50.000   | 48.544  | 2.9#  | 87    | 0.02     |
| 67 T  | m/p-Xylenes                 | 100.000  | 97.932  | 2.1   | 88    | 0.02     |
| 68 T  | o-Xylene                    | 50.000   | 48.897  | 2.2   | 89    | 0.02     |
| 69 T  | Styrene                     | 50.000   | 49.603  | 0.8   | 88    | 0.02     |
| 70 P  | Bromoform                   | 50.000   | 50.078  | -0.2  | 82    | 0.02     |
| 71 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 81    | 0.02     |
| 72 T  | Isopropylbenzene            | 50.000   | 50.758  | -1.5  | 84    | 0.00     |
| 73 T  | N-amyl acetate              | 50.000   | 49.265  | 1.5   | 72    | 0.02     |
| 74 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 51.669  | -3.3  | 81    | 0.02     |
| 75 T  | 1,2,3-Trichloropropane      | 50.000   | 52.880  | -5.8  | 78    | 0.02     |
| 76 T  | Bromobenzene                | 50.000   | 52.174  | -4.3  | 85    | 0.02     |
| 77 T  | n-propylbenzene             | 50.000   | 52.108  | -4.2  | 91    | 0.00     |
| 78 T  | 2-Chlorotoluene             | 50.000   | 50.788  | -1.6  | 85    | 0.02     |
| 79 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.393  | -2.8  | 85    | 0.02     |
| 80 T  | trans-1,4-Dichloro-2-butene | 50.000   | 59.790  | -19.6 | 89    | 0.02     |
| 81 T  | 4-Chlorotoluene             | 50.000   | 51.311  | -2.6  | 87    | 0.02     |
| 82 T  | tert-Butylbenzene           | 50.000   | 50.298  | -0.6  | 87    | 0.02     |
| 83 T  | 1,2,4-Trimethylbenzene      | 50.000   | 48.737  | 2.5   | 80    | 0.00     |
| 84 T  | sec-Butylbenzene            | 50.000   | 49.334  | 1.3   | 84    | 0.00     |
| 85 T  | p-Isopropyltoluene          | 50.000   | 48.920  | 2.2   | 87    | 0.00     |
| 86 T  | 1,3-Dichlorobenzene         | 50.000   | 50.681  | -1.4  | 88    | 0.00     |
| 87 T  | 1,4-Dichlorobenzene         | 50.000   | 50.429  | -0.9  | 82    | 0.00     |
| 88 T  | n-Butylbenzene              | 50.000   | 49.987  | 0.0   | 84    | 0.02     |
| 89 T  | Hexachloroethane            | 50.000   | 47.958  | 4.1   | 79    | 0.02     |

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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) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | 1,2-Dichlorobenzene         | 50.000 | 50.668 | -1.3 | 83    | 0.00     |
| 91 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 53.746 | -7.5 | 77    | 0.02     |
| 92 T | 1,2,4-Trichlorobenzene      | 50.000 | 52.852 | -5.7 | 82    | 0.00     |
| 93 T | Hexachlorobutadiene         | 50.000 | 52.359 | -4.7 | 87    | 0.00     |
| 94 T | Naphthalene                 | 50.000 | 51.905 | -3.8 | 82    | 0.02     |
| 95 T | 1,2,3-Trichlorobenzene      | 50.000 | 51.009 | -2.0 | 78    | 0.00     |

(#) = Out of Range

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