

Data Path : W:\HPCHEM1\MSVOA N\DATA\VN091715\  
 Data File : VN027266.D  
 Acq On : 17 Sep 2015 20:17  
 Operator : MD\FY  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 18 03:45:31 2015  
 Quant Method : W:\HPCHEM1\MSVOA\_N\METHODS\82N091515W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 15 21:12:09 2015  
 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    | 90    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 47.146  | 5.7    | 86    | 0.00     |
| 3 T   | Chlorodifluoromethane       | 50.000  | 51.549  | -3.1   | 98    | 0.00     |
| 4 P   | Chloromethane               | 50.000  | 46.505  | 7.0    | 85    | 0.00     |
| 5 C   | Vinyl Chloride              | 50.000  | 49.224  | 1.6#   | 92    | 0.00     |
| 6 T   | Bromomethane                | 50.000  | 43.489  | 13.0   | 80    | 0.00     |
| 7 T   | Chloroethane                | 50.000  | 46.915  | 6.2    | 88    | 0.00     |
| 8 T   | Trichlorofluoromethane      | 50.000  | 48.195  | 3.6    | 88    | 0.00     |
| 9 T   | Diethyl Ether               | 50.000  | 47.242  | 5.5    | 87    | 0.00     |
| 10 T  | 1,1,2-Trichlorotrifluoroeth | 50.000  | 47.516  | 5.0    | 87    | 0.00     |
| 11 T  | Methyl Iodide               | 50.000  | 38.832  | 22.3#  | 65    | 0.00     |
| 12 T  | Tert butyl alcohol          | 250.000 | 237.348 | 5.1    | 85    | 0.00     |
| 13 CM | 1,1-Dichloroethene          | 50.000  | 47.171  | 5.7#   | 87    | 0.00     |
| 14 T  | Acrolein                    | 250.000 | 302.956 | -21.2# | 108   | 0.00     |
| 15 T  | Allyl chloride              | 50.000  | 46.427  | 7.1    | 84    | 0.00     |
| 16 T  | Acrylonitrile               | 250.000 | 257.003 | -2.8   | 88    | 0.00     |
| 17 T  | Acetone                     | 250.000 | 240.086 | 4.0    | 79    | 0.00     |
| 18 T  | Carbon Disulfide            | 50.000  | 44.483  | 11.0   | 84    | 0.00     |
| 19 T  | Methyl Acetate              | 50.000  | 50.470  | -0.9   | 87    | 0.00     |
| 20 T  | Methyl tert-butyl Ether     | 50.000  | 48.375  | 3.3    | 88    | 0.00     |
| 21 T  | Methylene Chloride          | 50.000  | 48.653  | 2.7    | 90    | 0.00     |
| 22 T  | trans-1,2-Dichloroethene    | 50.000  | 47.836  | 4.3    | 90    | 0.00     |
| 23 T  | Diisopropyl ether           | 50.000  | 47.762  | 4.5    | 87    | 0.00     |
| 24 T  | Vinyl Acetate               | 250.000 | 247.335 | 1.1    | 84    | 0.00     |
| 25 P  | 1,1-Dichloroethane          | 50.000  | 47.357  | 5.3    | 88    | 0.00     |
| 26 T  | 2-Butanone                  | 250.000 | 248.039 | 0.8    | 83    | 0.00     |
| 27 T  | 2,2-Dichloropropane         | 50.000  | 43.805  | 12.4   | 78    | 0.00     |
| 28 T  | cis-1,2-Dichloroethene      | 50.000  | 49.281  | 1.4    | 89    | 0.00     |
| 29 T  | Bromochloromethane          | 50.000  | 46.624  | 6.8    | 86    | 0.00     |
| 30 T  | Tetrahydrofuran             | 250.000 | 232.824 | 6.9    | 85    | 0.00     |
| 31 C  | Chloroform                  | 50.000  | 49.803  | 0.4#   | 90    | 0.00     |
| 32 T  | Cyclohexane                 | 50.000  | 48.786  | 2.4    | 87    | 0.00     |
| 33 T  | 1,1,1-Trichloroethane       | 50.000  | 48.991  | 2.0    | 89    | 0.00     |
| 34 S  | 1,2-Dichloroethane-d4       | 50.000  | 53.830  | -7.7   | 98    | 0.00     |
| 35 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 92    | 0.00     |
| 36 S  | Dibromofluoromethane        | 50.000  | 51.823  | -3.6   | 95    | 0.00     |
| 37 T  | 1,1-Dichloropropene         | 50.000  | 47.694  | 4.6    | 88    | 0.00     |
| 38 T  | Ethyl Acetate               | 50.000  | 49.876  | 0.2    | 88    | 0.00     |
| 39 T  | Carbon Tetrachloride        | 50.000  | 47.742  | 4.5    | 89    | 0.00     |
| 40 T  | Methylcyclohexane           | 50.000  | 46.599  | 6.8    | 87    | 0.00     |
| 41 TM | Benzene                     | 50.000  | 47.617  | 4.8    | 89    | 0.00     |
| 42 T  | Methacrylonitrile           | 50.000  | 49.014  | 2.0    | 87    | 0.00     |
| 43 TM | 1,2-Dichloroethane          | 50.000  | 47.274  | 5.5    | 88    | 0.00     |
| 44 T  | Isopropyl Acetate           | 50.000  | 47.831  | 4.3    | 85    | 0.00     |
| 45 TM | Trichloroethene             | 50.000  | 47.904  | 4.2    | 89    | 0.00     |

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 Quant Title : SW846 8260  
 QLast Update : Tue Sep 15 21:12:09 2015  
 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 C  | 1,2-Dichloropropane         | 50.000   | 46.457  | 7.1# | 87    | 0.00     |
| 47 T  | Dibromomethane              | 50.000   | 47.563  | 4.9  | 90    | 0.00     |
| 48 T  | Bromodichloromethane        | 50.000   | 47.409  | 5.2  | 87    | 0.00     |
| 49 T  | Methyl methacrylate         | 50.000   | 46.662  | 6.7  | 83    | 0.00     |
| 50 T  | 1,4-Dioxane                 | 1000.000 | 952.833 | 4.7  | 88    | 0.00     |
| 51 S  | Toluene-d8                  | 50.000   | 51.625  | -3.3 | 95    | 0.00     |
| 52 T  | 4-Methyl-2-Pentanone        | 250.000  | 236.690 | 5.3  | 87    | 0.00     |
| 53 CM | Toluene                     | 50.000   | 47.665  | 4.7# | 89    | 0.00     |
| 54 T  | t-1,3-Dichloropropene       | 50.000   | 45.921  | 8.2  | 83    | 0.00     |
| 55 T  | cis-1,3-Dichloropropene     | 50.000   | 46.204  | 7.6  | 86    | 0.00     |
| 56 T  | 1,1,2-Trichloroethane       | 50.000   | 48.837  | 2.3  | 90    | 0.00     |
| 57 T  | Ethyl methacrylate          | 50.000   | 47.632  | 4.7  | 87    | 0.00     |
| 58 T  | 1,3-Dichloropropane         | 50.000   | 48.041  | 3.9  | 89    | 0.00     |
| 59 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 259.497 | -3.8 | 94    | 0.00     |
| 60 T  | 2-Hexanone                  | 250.000  | 236.037 | 5.6  | 84    | 0.00     |
| 61 T  | Dibromochloromethane        | 50.000   | 46.813  | 6.4  | 86    | 0.00     |
| 62 T  | 1,2-Dibromoethane           | 50.000   | 48.125  | 3.8  | 88    | 0.00     |
| 63 S  | 4-Bromofluorobenzene        | 50.000   | 51.989  | -4.0 | 94    | 0.00     |
| 64 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0  | 91    | 0.00     |
| 65 T  | Tetrachloroethene           | 50.000   | 47.735  | 4.5  | 90    | 0.00     |
| 66 PM | Chlorobenzene               | 50.000   | 47.683  | 4.6  | 89    | 0.00     |
| 67 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 47.354  | 5.3  | 87    | 0.00     |
| 68 C  | Ethyl Benzene               | 50.000   | 48.061  | 3.9# | 89    | 0.00     |
| 69 T  | m/p-Xylenes                 | 100.000  | 96.494  | 3.5  | 89    | 0.00     |
| 70 T  | o-Xylene                    | 50.000   | 47.819  | 4.4  | 88    | 0.00     |
| 71 T  | Styrene                     | 50.000   | 49.202  | 1.6  | 88    | 0.00     |
| 72 P  | Bromoform                   | 50.000   | 47.067  | 5.9  | 84    | 0.00     |
| 73 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0  | 90    | 0.00     |
| 74 T  | Isopropylbenzene            | 50.000   | 46.716  | 6.6  | 88    | 0.00     |
| 75 T  | N-amyl acetate              | 50.000   | 46.463  | 7.1  | 84    | 0.00     |
| 76 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 52.074  | -4.1 | 87    | 0.00     |
| 77 T  | 1,2,3-Trichloropropane      | 50.000   | 46.531  | 6.9  | 87    | 0.00     |
| 78 T  | Bromobenzene                | 50.000   | 46.958  | 6.1  | 90    | 0.00     |
| 79 T  | n-propylbenzene             | 50.000   | 47.342  | 5.3  | 88    | 0.00     |
| 80 T  | 2-Chlorotoluene             | 50.000   | 47.401  | 5.2  | 89    | 0.00     |
| 81 T  | 1,3,5-Trimethylbenzene      | 50.000   | 47.113  | 5.8  | 89    | 0.00     |
| 82 T  | trans-1,4-Dichloro-2-butene | 50.000   | 42.006  | 16.0 | 77    | 0.00     |
| 83 T  | 4-Chlorotoluene             | 50.000   | 47.975  | 4.0  | 88    | 0.00     |
| 84 T  | tert-Butylbenzene           | 50.000   | 46.763  | 6.5  | 89    | 0.00     |
| 85 T  | 1,2,4-Trimethylbenzene      | 50.000   | 47.205  | 5.6  | 88    | 0.00     |
| 86 T  | sec-Butylbenzene            | 50.000   | 47.334  | 5.3  | 88    | 0.00     |
| 87 T  | p-Isopropyltoluene          | 50.000   | 46.660  | 6.7  | 87    | 0.00     |
| 88 T  | 1,3-Dichlorobenzene         | 50.000   | 48.407  | 3.2  | 89    | 0.00     |
| 89 T  | 1,4-Dichlorobenzene         | 50.000   | 47.149  | 5.7  | 89    | 0.00     |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | n-Butylbenzene              | 50.000 | 48.163 | 3.7  | 86    | 0.00     |
| 91 T | Hexachloroethane            | 50.000 | 44.263 | 11.5 | 84    | 0.00     |
| 92 T | 1,2-Dichlorobenzene         | 50.000 | 47.728 | 4.5  | 88    | 0.00     |
| 93 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 47.217 | 5.6  | 81    | 0.00     |
| 94 T | 1,2,4-Trichlorobenzene      | 50.000 | 49.477 | 1.0  | 86    | 0.00     |
| 95 T | Hexachlorobutadiene         | 50.000 | 45.371 | 9.3  | 82    | 0.00     |
| 96 T | Naphthalene                 | 50.000 | 49.088 | 1.8  | 83    | 0.00     |
| 97 T | 1,2,3-Trichlorobenzene      | 50.000 | 49.342 | 1.3  | 86    | 0.00     |

(#) = Out of Range

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