

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN040319\  
 Data File : VN054914.D  
 Acq On : 3 Apr 2019 9:10  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Apr 04 01:30:40 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N032919W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 30 00:48:18 2019  
 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   | 96    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 44.789  | 10.4  | 92    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 43.835  | 12.3  | 88    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 45.711  | 8.6#  | 93    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 48.805  | 2.4   | 91    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 46.412  | 7.2   | 96    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 48.964  | 2.1   | 98    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 48.486  | 3.0   | 95    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 51.197  | -2.4  | 105   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 50.977  | -2.0  | 94    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 226.193 | 9.5   | 90    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 48.785  | 2.4#  | 97    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 222.035 | 11.2  | 91    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 47.849  | 4.3   | 95    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 241.576 | 3.4   | 94    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 310.189 | -24.1 | 123   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 45.315  | 9.4   | 91    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 50.851  | -1.7  | 96    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 48.128  | 3.7   | 94    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 47.480  | 5.0   | 97    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.812  | 4.4   | 95    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 49.863  | 0.3   | 96    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 251.325 | -0.5  | 93    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 49.882  | 0.2   | 97    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 276.585 | -10.6 | 102   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 51.761  | -3.5  | 100   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 49.238  | 1.5   | 97    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 49.965  | 0.1   | 97    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 232.266 | 7.1   | 93    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 50.114  | -0.2# | 98    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 50.269  | -0.5  | 94    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 50.410  | -0.8  | 97    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 46.444  | 7.1   | 89    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 91    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 49.409  | 1.2   | 91    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 50.809  | -1.6  | 95    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 49.476  | 1.0   | 94    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 50.180  | -0.4  | 97    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 52.790  | -5.6  | 98    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 52.669  | -5.3  | 97    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 52.058  | -4.1  | 95    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 52.048  | -4.1  | 98    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 51.627  | -3.3  | 91    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 52.469  | -4.9  | 99    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 52.346  | -4.7# | 97    | 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   | 51.418   | -2.8  | 94    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 55.304   | -10.6 | 100   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 48.420   | 3.2   | 90    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1024.544 | -2.5  | 92    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 49.837   | 0.3   | 89    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 263.404  | -5.4  | 93    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 53.465   | -6.9# | 97    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 55.199   | -10.4 | 96    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 56.351   | -12.7 | 98    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 51.381   | -2.8  | 98    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 52.602   | -5.2  | 93    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 52.815   | -5.6  | 95    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 254.523  | -1.8  | 97    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 273.699  | -9.5  | 100   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 55.445   | -10.9 | 97    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 52.190   | -4.4  | 94    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 50.578   | -1.2  | 91    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 91    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 51.933   | -3.9  | 98    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 52.131   | -4.3  | 97    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 54.098   | -8.2  | 98    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 53.025   | -6.0# | 98    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 105.865  | -5.9  | 98    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 52.193   | -4.4  | 98    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 55.293   | -10.6 | 98    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 54.019   | -8.0  | 94    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 94    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 48.123   | 3.8   | 99    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 46.455   | 7.1   | 90    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 52.068   | -4.1  | 97    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 47.046   | 5.9   | 100   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 48.156   | 3.7   | 97    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 49.701   | 0.6   | 99    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 47.686   | 4.6   | 98    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 48.824   | 2.4   | 99    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 49.037   | 1.9   | 97    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 49.106   | 1.8   | 97    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 53.134   | -6.3  | 97    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 50.825   | -1.7  | 98    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 49.673   | 0.7   | 101   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 50.130   | -0.3  | 99    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.208   | -0.4  | 98    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.176   | 1.6   | 97    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 52.137   | -4.3  | 100   | 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 | 49.720 | 0.6  | 98    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 48.442 | 3.1  | 97    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 47.675 | 4.7  | 90    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 49.888 | 0.2  | 93    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 53.678 | -7.4 | 97    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 45.356 | 9.3  | 88    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 47.704 | 4.6  | 91    | 0.00     |

(#) = Out of Range

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