

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081419\  
 Data File : VN057276.D  
 Acq On : 14 Aug 2019 9:17  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 14 12:20:20 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N081319W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 14 06:25:03 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  | 45.541  | 8.9   | 88    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 44.514  | 11.0  | 84    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 45.603  | 8.8#  | 87    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 49.306  | 1.4   | 92    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 47.954  | 4.1   | 88    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 45.549  | 8.9   | 88    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 46.850  | 6.3   | 90    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 46.202  | 7.6   | 90    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 48.841  | 2.3   | 88    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 232.795 | 6.9   | 89    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 45.078  | 9.8#  | 88    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 223.185 | 10.7  | 86    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 46.711  | 6.6   | 89    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 233.943 | 6.4   | 87    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 277.781 | -11.1 | 104   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 44.732  | 10.5  | 87    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 47.575  | 4.8   | 90    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 46.900  | 6.2   | 90    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 44.761  | 10.5  | 89    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 46.080  | 7.8   | 90    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 46.477  | 7.0   | 90    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 237.776 | 4.9   | 89    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 46.060  | 7.9   | 89    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 246.017 | 1.6   | 92    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 48.817  | 2.4   | 91    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 46.491  | 7.0   | 89    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 49.778  | 0.4   | 101   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 226.546 | 9.4   | 85    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 45.320  | 9.4#  | 90    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 44.435  | 11.1  | 87    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 48.012  | 4.0   | 91    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 48.098  | 3.8   | 88    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 95    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 48.490  | 3.0   | 89    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 46.944  | 6.1   | 89    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 45.982  | 8.0   | 88    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 46.232  | 7.5   | 88    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 47.660  | 4.7   | 89    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 46.317  | 7.4   | 89    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 46.062  | 7.9   | 94    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 47.362  | 5.3   | 90    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 52.615  | -5.2  | 97    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 46.731  | 6.5   | 91    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 47.693  | 4.6#  | 91    | 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 : 25% Max. Rel. Area : 150%

|       | Compound                    | Amount   | Calc.   | %Dev | Area% | Dev(min) |
|-------|-----------------------------|----------|---------|------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 46.489  | 7.0  | 88    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 49.281  | 1.4  | 91    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 48.535  | 2.9  | 88    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 930.383 | 7.0  | 89    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.045  | -0.1 | 89    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 234.513 | 6.2  | 88    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 48.356  | 3.3# | 90    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 50.219  | -0.4 | 91    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 49.171  | 1.7  | 90    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 46.817  | 6.4  | 90    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 48.987  | 2.0  | 89    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 46.834  | 6.3  | 89    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 229.828 | 8.1  | 96    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 251.340 | -0.5 | 91    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 48.492  | 3.0  | 91    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 48.178  | 3.6  | 90    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 50.602  | -1.2 | 91    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0  | 94    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 45.051  | 9.9  | 91    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 47.048  | 5.9  | 90    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 46.828  | 6.3  | 89    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 48.411  | 3.2# | 91    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 98.813  | 1.2  | 92    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 48.745  | 2.5  | 91    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.216  | -6.4 | 93    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 48.687  | 2.6  | 89    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0  | 99    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 49.935  | 0.1  | 92    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 48.426  | 3.1  | 92    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 49.682  | 0.6  | 90    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 48.822  | 2.4  | 90    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 49.673  | 0.7  | 93    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 49.000  | 2.0  | 92    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 50.237  | -0.5 | 93    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 50.236  | -0.5 | 93    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 45.250  | 9.5  | 90    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 45.187  | 9.6  | 94    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 49.593  | 0.8  | 91    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 43.644  | 12.7 | 92    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 49.223  | 1.6  | 92    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 44.184  | 11.6 | 94    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 47.248  | 5.5  | 95    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 46.430  | 7.1  | 97    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 46.639  | 6.7  | 96    | 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) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 49.434 | 1.1  | 93    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 46.851 | 6.3  | 95    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 44.922 | 10.2 | 91    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 50.096 | -0.2 | 106   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 53.391 | -6.8 | 96    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 52.835 | -5.7 | 99    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 49.020 | 2.0  | 105   | 0.00     |

(#) = Out of Range

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