

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN042319\  
 Data File : VN055213.D  
 Acq On : 23 Apr 2019 18:11  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Apr 24 04:42:18 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N042219W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 23 05:52:53 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    | 98    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 52.334  | -4.7   | 96    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 49.175  | 1.7    | 94    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 48.367  | 3.3#   | 93    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 43.425  | 13.2   | 92    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 47.447  | 5.1    | 94    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 48.573  | 2.9    | 95    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 54.341  | -8.7   | 105   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 47.667  | 4.7    | 96    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 52.688  | -5.4   | 97    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 326.268 | -30.5# | 130   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.495  | 1.0#   | 97    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 259.776 | -3.9   | 109   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 50.702  | -1.4   | 99    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 291.137 | -16.5  | 112   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 228.855 | 8.5    | 81    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 47.114  | 5.8    | 89    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 60.730  | -21.5  | 121   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 54.908  | -9.8   | 107   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 47.114  | 5.8    | 99    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.675  | 0.7    | 96    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 51.479  | -3.0   | 101   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 292.971 | -17.2  | 107   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 49.434  | 1.1    | 98    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 278.769 | -11.5  | 105   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 48.732  | 2.5    | 97    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 49.547  | 0.9    | 98    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 49.488  | 1.0    | 99    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 299.200 | -19.7  | 116   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 48.737  | 2.5#   | 97    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 49.423  | 1.2    | 96    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 50.761  | -1.5   | 99    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 49.972  | 0.1    | 101   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 98    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 49.388  | 1.2    | 97    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 52.173  | -4.3   | 96    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 59.169  | -18.3  | 114   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 51.712  | -3.4   | 97    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 48.261  | 3.5    | 95    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 51.337  | -2.7   | 99    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 48.549  | 2.9    | 87    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 51.201  | -2.4   | 100   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 62.204  | -24.4  | 116   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 50.111  | -0.2   | 97    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.332  | -0.7#  | 98    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN042319\  
 Data File : VN055213.D  
 Acq On : 23 Apr 2019 18:11  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Apr 24 04:42:18 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N042219W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 23 05:52:53 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) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 50.906   | -1.8  | 100   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 51.896   | -3.8  | 97    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 59.534   | -19.1 | 114   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1198.037 | -19.8 | 113   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 49.341   | 1.3   | 98    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 303.363  | -21.3 | 116   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 51.294   | -2.6# | 97    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 57.094   | -14.2 | 103   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 54.828   | -9.7  | 100   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 52.783   | -5.6  | 103   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 61.808   | -23.6 | 111   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 53.856   | -7.7  | 103   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 249.327  | 0.3   | 100   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 304.749  | -21.9 | 110   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 54.200   | -8.4  | 101   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 55.799   | -11.6 | 105   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 51.506   | -3.0  | 96    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 99    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 49.092   | 1.8   | 100   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 48.294   | 3.4   | 97    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 50.166   | -0.3  | 99    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 50.150   | -0.3# | 97    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 102.009  | -2.0  | 97    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.686   | -1.4  | 98    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 54.137   | -8.3  | 97    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 56.095   | -12.2 | 102   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 96    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 51.780   | -3.6  | 99    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 59.440   | -18.9 | 114   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 56.814   | -13.6 | 107   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 42.248   | 15.5  | 92    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 46.268   | 7.5   | 99    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 45.919   | 8.2   | 97    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 44.966   | 10.1  | 98    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 46.041   | 7.9   | 98    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 53.340   | -6.7  | 112   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 46.817   | 6.4   | 96    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 51.616   | -3.2  | 98    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 47.881   | 4.2   | 98    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 44.501   | 11.0  | 97    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 47.227   | 5.5   | 97    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.045   | 1.9   | 97    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 48.315   | 3.4   | 97    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 51.539   | -3.1  | 97    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN042319\  
Data File : VN055213.D  
Acq On : 23 Apr 2019 18:11  
Operator : JC/SP  
Sample : VSTDCCC050  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
LabSampleId :  
VSTDCCC050

Quant Time: Apr 24 04:42:18 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N042219W.M  
Quant Title : SW846 8260  
QLast Update : Tue Apr 23 05:52:53 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) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 43.650 | 12.7 | 96    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 46.671 | 6.7  | 95    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 54.281 | -8.6 | 112   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 48.577 | 2.8  | 99    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 54.234 | -8.5 | 100   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 49.953 | 0.1  | 105   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 49.151 | 1.7  | 97    | 0.00     |

(#) = Out of Range

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