

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN102119\  
 Data File : VN058873.D  
 Acq On : 21 Oct 2019 9:03  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 22 03:25:44 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N101819W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Oct 19 00:16:20 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   | 107   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 48.502  | 3.0   | 104   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 47.365  | 5.3   | 104   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 48.505  | 3.0#  | 105   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 45.808  | 8.4   | 99    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 46.675  | 6.7   | 103   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 48.397  | 3.2   | 103   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 49.779  | 0.4   | 110   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 46.330  | 7.3   | 103   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 47.556  | 4.9   | 102   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 222.403 | 11.0  | 98    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 48.227  | 3.5#  | 104   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 247.673 | 0.9   | 102   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 50.058  | -0.1  | 107   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 243.843 | 2.5   | 101   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 296.876 | -18.8 | 121   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 46.736  | 6.5   | 101   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 45.583  | 8.8   | 103   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 51.002  | -2.0  | 106   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 46.200  | 7.6   | 106   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.334  | 1.3   | 106   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 51.509  | -3.0  | 106   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 270.388 | -8.2  | 104   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 48.270  | 3.5   | 106   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 256.960 | -2.8  | 105   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 49.338  | 1.3   | 107   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 49.349  | 1.3   | 104   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 48.281  | 3.4   | 103   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 240.027 | 4.0   | 98    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 46.712  | 6.6#  | 103   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 47.132  | 5.7   | 103   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 48.336  | 3.3   | 103   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 49.640  | 0.7   | 106   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 107   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 49.689  | 0.6   | 106   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 49.680  | 0.6   | 103   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 49.202  | 1.6   | 99    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 47.707  | 4.6   | 102   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 51.111  | -2.2  | 103   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.559  | 0.9   | 103   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 46.503  | 7.0   | 101   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 48.535  | 2.9   | 103   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 49.624  | 0.8   | 102   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 49.311  | 1.4   | 105   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.202  | -0.4# | 106   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN102119\  
 Data File : VN058873.D  
 Acq On : 21 Oct 2019 9:03  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 22 03:25:44 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N101819W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Oct 19 00:16:20 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   | 48.529   | 2.9   | 103   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 49.446   | 1.1   | 104   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 50.928   | -1.9  | 101   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1003.601 | -0.4  | 105   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.920   | -1.8  | 108   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 262.869  | -5.1  | 100   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 51.765   | -3.5# | 104   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.765   | -3.5  | 105   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 51.378   | -2.8  | 104   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 48.542   | 2.9   | 104   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 47.242   | 5.5   | 105   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 49.905   | 0.2   | 104   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 244.714  | 2.1   | 106   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 274.988  | -10.0 | 104   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 50.537   | -1.1  | 105   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 50.555   | -1.1  | 105   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 52.873   | -5.7  | 111   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 109   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 48.194   | 3.6   | 104   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 50.217   | -0.4  | 107   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 49.311   | 1.4   | 105   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 53.787   | -7.6# | 107   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 106.445  | -6.4  | 106   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 53.585   | -7.2  | 108   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 48.958   | 2.1   | 108   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 49.057   | 1.9   | 104   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 109   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 51.836   | -3.7  | 108   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 52.425   | -4.8  | 104   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 46.239   | 7.5   | 102   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 43.936   | 12.1  | 100   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 49.067   | 1.9   | 107   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 52.657   | -5.3  | 108   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 49.656   | 0.7   | 107   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 52.650   | -5.3  | 107   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 49.806   | 0.4   | 105   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.990   | -2.0  | 107   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 50.746   | -1.5  | 106   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 53.480   | -7.0  | 106   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 52.625   | -5.3  | 106   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 54.147   | -8.3  | 107   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.949   | 0.1   | 107   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.083   | 1.8   | 105   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 54.947   | -9.9  | 109   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN102119\  
Data File : VN058873.D  
Acq On : 21 Oct 2019 9:03  
Operator : JC/SP  
Sample : VSTDCCC050  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
LabSampleId :  
VSTDCCC050

Quant Time: Oct 22 03:25:44 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N101819W.M  
Quant Title : SW846 8260  
QLast Update : Sat Oct 19 00:16:20 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 | 48.064 | 3.9  | 105   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 49.766 | 0.5  | 106   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 42.804 | 14.4 | 96    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 46.984 | 6.0  | 106   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 48.223 | 3.6  | 105   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 45.928 | 8.1  | 102   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 45.928 | 8.1  | 104   | 0.00     |

(#) = Out of Range

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