

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN102120\  
 Data File : VN064235.D  
 Acq On : 21 Oct 2020 20:41  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 22 02:39:45 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N102120W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 21 12:48:40 2020  
 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   | 90    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 52.078  | -4.2  | 94    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 54.576  | -9.2  | 92    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 54.773  | -9.5# | 93    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 52.294  | -4.6  | 93    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 54.022  | -8.0  | 95    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 55.752  | -11.5 | 95    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 54.151  | -8.3  | 94    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 52.679  | -5.4  | 92    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 52.518  | -5.0  | 91    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 262.681 | -5.1  | 95    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 53.813  | -7.6# | 94    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 236.534 | 5.4   | 91    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 53.022  | -6.0  | 92    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 279.219 | -11.7 | 98    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 280.275 | -12.1 | 99    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 53.208  | -6.4  | 92    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 54.527  | -9.1  | 100   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 53.989  | -8.0  | 94    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 50.918  | -1.8  | 93    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 53.331  | -6.7  | 94    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 52.030  | -4.1  | 93    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 269.928 | -8.0  | 93    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 54.107  | -8.2  | 95    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 265.881 | -6.4  | 94    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 47.966  | 4.1   | 85    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 53.827  | -7.7  | 96    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 53.854  | -7.7  | 97    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 270.394 | -8.2  | 94    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 53.810  | -7.6# | 96    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 49.251  | 1.5   | 94    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 55.020  | -10.0 | 95    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 52.072  | -4.1  | 96    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 94    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 49.192  | 1.6   | 96    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 51.605  | -3.2  | 96    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 52.311  | -4.6  | 96    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 51.843  | -3.7  | 94    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 50.115  | -0.2  | 90    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 50.561  | -1.1  | 94    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 50.429  | -0.9  | 106   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 50.554  | -1.1  | 94    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 52.155  | -4.3  | 97    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 50.857  | -1.7  | 94    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.886  | -1.8# | 92    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN102120\  
 Data File : VN064235.D  
 Acq On : 21 Oct 2020 20:41  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 22 02:39:45 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N102120W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 21 12:48:40 2020  
 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   | 52.962   | -5.9  | 93    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 52.202   | -4.4  | 94    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 50.512   | -1.0  | 95    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1006.773 | -0.7  | 96    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 49.787   | 0.4   | 93    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 268.655  | -7.5  | 97    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.842   | -1.7# | 93    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 52.842   | -5.7  | 94    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.697   | -1.4  | 93    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 52.404   | -4.8  | 94    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 53.993   | -8.0  | 96    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 53.198   | -6.4  | 95    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 260.849  | -4.3  | 94    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 269.595  | -7.8  | 96    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 51.304   | -2.6  | 95    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 53.945   | -7.9  | 96    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 50.276   | -0.6  | 96    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 95    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 48.802   | 2.4   | 92    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 51.605   | -3.2  | 95    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 50.487   | -1.0  | 92    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 51.995   | -4.0# | 95    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 102.494  | -2.5  | 94    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 51.890   | -3.8  | 93    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 51.698   | -3.4  | 92    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 52.092   | -4.2  | 92    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 94    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 51.111   | -2.2  | 94    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 52.888   | -5.8  | 94    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 52.726   | -5.5  | 98    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 49.797   | 0.4   | 99    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 52.260   | -4.5  | 96    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 50.974   | -1.9  | 93    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 51.867   | -3.7  | 94    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.014   | -2.0  | 93    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 50.111   | -0.2  | 93    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.901   | -3.8  | 94    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 50.731   | -1.5  | 93    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 52.206   | -4.4  | 94    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 50.508   | -1.0  | 91    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 51.219   | -2.4  | 92    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 51.513   | -3.0  | 94    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 50.900   | -1.8  | 94    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 49.219   | 1.6   | 88    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN102120\  
Data File : VN064235.D  
Acq On : 21 Oct 2020 20:41  
Operator : JC/MD  
Sample : VSTDCCC050  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
LabSampleId :  
VSTDCCC050

Quant Time: Oct 22 02:39:45 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N102120W.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 21 12:48:40 2020  
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 | 49.233 | 1.5  | 92    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 51.454 | -2.9 | 94    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 52.971 | -5.9 | 96    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 51.280 | -2.6 | 89    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 44.567 | 10.9 | 83    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 53.045 | -6.1 | 92    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 51.194 | -2.4 | 91    | 0.00     |

(#) = Out of Range

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