

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN092021\  
 Data File : VN068559.D  
 Acq On : 20 Sep 2021 14:12  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 21 07:28:00 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N090721W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 17 11:02:11 2021  
 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  | 44.815  | 10.4   | 83    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 51.920  | -3.8   | 91    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 40.863  | 18.3#  | 79    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 42.502  | 15.0   | 77    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 40.651  | 18.7   | 80    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 44.969  | 10.1   | 87    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 51.711  | -3.4   | 95    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 47.199  | 5.6    | 89    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 47.850  | 4.3    | 83    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 271.910 | -8.8   | 96    | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 46.529  | 6.9#   | 85    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 324.160 | -29.7# | 123   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 51.804  | -3.6   | 95    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 267.935 | -7.2   | 99    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 275.685 | -10.3  | 95    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 40.179  | 19.6   | 76    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 57.014  | -14.0  | 100   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 53.739  | -7.5   | 96    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 52.461  | -4.9   | 93    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 46.373  | 7.3    | 85    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 57.564  | -15.1  | 101   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 288.627 | -15.5  | 100   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 50.020  | -0.0   | 94    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 268.067 | -7.2   | 99    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 46.647  | 6.7    | 88    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 50.033  | -0.1   | 91    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 55.476  | -11.0  | 93    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 275.945 | -10.4  | 98    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 50.085  | -0.2#  | 92    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 45.187  | 9.6    | 86    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 50.215  | -0.4   | 89    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 54.574  | -9.1   | 98    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 92    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 54.187  | -8.4   | 95    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 49.739  | 0.5    | 88    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 55.856  | -11.7  | 99    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 51.291  | -2.6   | 88    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 49.853  | 0.3    | 85    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 52.141  | -4.3   | 91    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 53.942  | -7.9   | 96    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 51.795  | -3.6   | 94    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 56.219  | -12.4  | 101   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 49.326  | 1.3    | 87    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 53.853  | -7.7#  | 96    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 53.043  | -6.1   | 93    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 54.500  | -9.0   | 94    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 56.448  | -12.9  | 93    | 0.00     |

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 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
 QLast Update : Fri Sep 17 11:02:11 2021  
 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) |
|-------|-----------------------------|----------|----------|--------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1068.689 | -6.9   | 93    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 49.227   | 1.5    | 94    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 298.442  | -19.4  | 103   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 54.873   | -9.7#  | 92    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 59.213   | -18.4  | 98    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 56.609   | -13.2  | 95    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 56.479   | -13.0  | 95    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 62.657   | -25.3# | 100   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 56.098   | -12.2  | 97    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 302.205  | -20.9  | 114   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 304.804  | -21.9  | 103   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 50.706   | -1.4   | 94    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 56.272   | -12.5  | 93    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 51.993   | -4.0   | 100   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 93    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 50.362   | -0.7   | 88    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 51.252   | -2.5   | 92    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 53.414   | -6.8   | 93    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 52.774   | -5.5#  | 92    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 107.497  | -7.5   | 91    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 55.956   | -11.9  | 96    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 50.228   | -0.5   | 96    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 48.362   | 3.3    | 92    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 89    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 51.874   | -3.7   | 93    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 65.892   | -31.8# | 115   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 51.611   | -3.2   | 100   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 58.875   | -17.8  | 109   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 54.707   | -9.4   | 97    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 60.503   | -21.0  | 107   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 58.264   | -16.5  | 109   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 59.303   | -18.6  | 105   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 59.460   | -18.9  | 102   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 58.708   | -17.4  | 107   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 54.291   | -8.6   | 95    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 54.360   | -8.7   | 94    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 54.052   | -8.1   | 94    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 54.013   | -8.0   | 91    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 51.028   | -2.1   | 88    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 51.358   | -2.7   | 91    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 58.539   | -17.1  | 101   | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 57.599   | -15.2  | 100   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 51.662   | -3.3   | 91    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 60.876   | -21.8  | 106   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 45.043   | 9.9    | 83    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 58.159   | -16.3  | 96    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 43.758   | 12.5   | 81    | 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) |
|------|------------------------|--------|--------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 44.588 | 10.8 | 83    | 0.00     |

(#) = Out of Range                      SPCC's out = 0    CCC's out = 6