

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN111621\  
 Data File : VN069521.D  
 Acq On : 16 Nov 2021 20:40  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 17 01:01:47 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N110921W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 09 18:18:22 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   | 102   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 41.505  | 17.0  | 81    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 39.516  | 21.0  | 84    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 40.812  | 18.4# | 83    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 36.315  | 27.4# | 80    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 38.871  | 22.3  | 81    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 39.574  | 20.9  | 80    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 43.396  | 13.2  | 92    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 43.550  | 12.9  | 90    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 45.709  | 8.6   | 93    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 202.803 | 18.9  | 85    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 43.745  | 12.5# | 89    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 214.056 | 14.4  | 92    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 44.083  | 11.8  | 90    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 231.049 | 7.6   | 94    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 186.584 | 25.4# | 76    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 35.856  | 28.3# | 73    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 43.714  | 12.6  | 92    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 46.705  | 6.6   | 95    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 42.966  | 14.1  | 94    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 44.324  | 11.4  | 92    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 47.531  | 4.9   | 96    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 236.772 | 5.3   | 93    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 45.691  | 8.6   | 94    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 216.238 | 13.5  | 87    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 42.573  | 14.9  | 84    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 46.217  | 7.6   | 94    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 50.424  | -0.8  | 107   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 229.331 | 8.3   | 90    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 46.593  | 6.8#  | 95    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 40.107  | 19.8  | 87    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 46.069  | 7.9   | 91    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 48.897  | 2.2   | 107   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 103   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.705  | -1.4  | 107   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 45.498  | 9.0   | 89    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 47.457  | 5.1   | 91    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 46.828  | 6.3   | 91    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 43.749  | 12.5  | 84    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 46.437  | 7.1   | 93    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 46.278  | 7.4   | 96    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 47.624  | 4.8   | 95    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 47.238  | 5.5   | 92    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 47.198  | 5.6   | 94    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 48.608  | 2.8#  | 96    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 46.684  | 6.6   | 92    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 49.155  | 1.7   | 93    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 46.395  | 7.2   | 87    | 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) |
|-------|-----------------------------|----------|---------|------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 1000.000 | 814.364 | 18.6 | 87    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 49.814  | 0.4  | 102   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 245.310 | 1.9  | 92    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 47.143  | 5.7# | 91    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 41.584  | 16.8 | 89    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 43.220  | 13.6 | 91    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 49.328  | 1.3  | 95    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 43.357  | 13.3 | 92    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 48.587  | 2.8  | 96    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 201.446 | 19.4 | 94    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 208.858 | 16.5 | 87    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 43.041  | 13.9 | 91    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 44.863  | 10.3 | 93    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 49.463  | 1.1  | 101   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0  | 98    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 47.059  | 5.9  | 90    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 48.265  | 3.5  | 92    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 51.429  | -2.9 | 93    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 48.315  | 3.4# | 90    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 96.089  | 3.9  | 88    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 48.925  | 2.2  | 90    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 45.381  | 9.2  | 91    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 42.333  | 15.3 | 88    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0  | 98    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 46.206  | 7.6  | 91    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 47.934  | 4.1  | 90    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 46.289  | 7.4  | 92    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 49.058  | 1.9  | 96    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 46.915  | 6.2  | 93    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 46.375  | 7.2  | 89    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 45.659  | 8.7  | 91    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 46.587  | 6.8  | 90    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 39.978  | 20.0 | 83    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 46.308  | 7.4  | 91    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 48.213  | 3.6  | 93    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 47.695  | 4.6  | 90    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 47.251  | 5.5  | 90    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 47.719  | 4.6  | 89    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 46.437  | 7.1  | 89    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 45.557  | 8.9  | 88    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 45.615  | 8.8  | 84    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 43.227  | 13.5 | 88    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 48.595  | 2.8  | 93    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 43.098  | 13.8 | 88    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 40.186  | 19.6 | 82    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 47.085  | 5.8  | 87    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 38.725  | 22.5 | 83    | 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 | 41.476 | 17.0 | 85    | 0.00     |

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