

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN102120\  
 Data File : VN064237.D  
 Acq On : 21 Oct 2020 23:56  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 22 02:45:28 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    | 81    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 48.098  | 3.8    | 78    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 55.683  | -11.4  | 84    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 52.052  | -4.1#  | 80    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 55.942  | -11.9  | 89    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 53.222  | -6.4   | 84    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 52.353  | -4.7   | 80    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 59.885  | -19.8  | 93    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 48.801  | 2.4    | 76    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 54.242  | -8.5   | 85    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 289.070 | -15.6  | 93    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 51.249  | -2.5#  | 80    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 219.041 | 12.4   | 76    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 50.909  | -1.8   | 79    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 303.748 | -21.5  | 95    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 305.165 | -22.1  | 97    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 51.069  | -2.1   | 79    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 59.696  | -19.4  | 98    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 60.205  | -20.4  | 94    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 56.481  | -13.0  | 93    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 53.713  | -7.4   | 85    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 57.408  | -14.8  | 93    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 299.402 | -19.8  | 93    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 57.214  | -14.4  | 90    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 290.668 | -16.3  | 93    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 45.348  | 9.3    | 72    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 56.283  | -12.6  | 90    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 58.687  | -17.4  | 95    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 299.309 | -19.7  | 94    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 57.093  | -14.2# | 92    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 45.605  | 8.8    | 78    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 54.111  | -8.2   | 84    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 56.077  | -12.2  | 93    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 86    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.132  | -0.3   | 90    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 48.448  | 3.1    | 83    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 54.614  | -9.2   | 92    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 47.966  | 4.1    | 80    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 46.213  | 7.6    | 76    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 51.530  | -3.1   | 88    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 43.122  | 13.8   | 83    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 55.059  | -10.1  | 95    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 56.383  | -12.8  | 97    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 50.003  | -0.0   | 85    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 53.944  | -7.9#  | 90    | 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) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 56.255   | -12.5 | 91    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 56.693   | -13.4 | 93    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 53.755   | -7.5  | 93    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1058.193 | -5.8  | 93    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 48.152   | 3.7   | 83    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 278.725  | -11.5 | 93    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.914   | -1.8# | 86    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 54.656   | -9.3  | 90    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 53.313   | -6.6  | 90    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 56.700   | -13.4 | 94    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 56.805   | -13.6 | 93    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 56.087   | -12.2 | 92    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 279.080  | -11.6 | 92    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 277.710  | -11.1 | 91    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 54.606   | -9.2  | 93    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 57.216   | -14.4 | 94    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 47.927   | 4.1   | 84    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 86    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 49.566   | 0.9   | 85    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 52.539   | -5.1  | 88    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 53.724   | -7.4  | 90    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 50.762   | -1.5# | 84    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 100.856  | -0.9  | 85    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 51.223   | -2.4  | 84    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 52.931   | -5.9  | 86    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 55.559   | -11.1 | 90    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 85    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 48.944   | 2.1   | 81    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 56.390   | -12.8 | 90    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 55.593   | -11.2 | 93    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 50.875   | -1.8  | 91    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 53.622   | -7.2  | 89    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 49.452   | 1.1   | 81    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 51.043   | -2.1  | 84    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 50.009   | -0.0  | 82    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 52.311   | -4.6  | 87    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.887   | -3.8  | 84    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 48.480   | 3.0   | 80    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 51.130   | -2.3  | 83    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 49.117   | 1.8   | 80    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 50.287   | -0.6  | 81    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 51.719   | -3.4  | 85    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 51.131   | -2.3  | 85    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 48.832   | 2.3   | 79    | 0.00     |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 47.309 | 5.4   | 79    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 52.296 | -4.6  | 86    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 54.199 | -8.4  | 89    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 54.069 | -8.1  | 84    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 43.347 | 13.3  | 73    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 57.189 | -14.4 | 90    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 52.314 | -4.6  | 84    | 0.00     |

(#) = Out of Range

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