

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100920\  
 Data File : VN064075.D  
 Acq On : 10 Oct 2020 7:37  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 49 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 10 08:20:16 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N093020W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 01 01:46:38 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    | 86    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 42.829  | 14.3   | 79    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 46.830  | 6.3    | 89    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 45.913  | 8.2#   | 86    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 41.965  | 16.1   | 80    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 50.642  | -1.3   | 92    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 48.347  | 3.3    | 88    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 52.769  | -5.5   | 92    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 48.313  | 3.4    | 89    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 51.480  | -3.0   | 87    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 338.106 | -35.2# | 117   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 48.156  | 3.7#   | 89    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 266.831 | -6.7   | 90    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 53.728  | -7.5   | 96    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 323.148 | -29.3# | 113   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 308.470 | -23.4  | 111   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 46.980  | 6.0    | 85    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 67.110  | -34.2# | 124   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 53.412  | -6.8   | 94    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 52.884  | -5.8   | 93    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 48.382  | 3.2    | 90    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 58.652  | -17.3  | 103   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 289.851 | -15.9  | 99    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 52.462  | -4.9   | 94    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 331.869 | -32.7# | 114   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 33.410  | 33.2#  | 60    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 49.695  | 0.6    | 90    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 55.413  | -10.8  | 96    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 337.979 | -35.2# | 118   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 51.186  | -2.4#  | 92    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 46.944  | 6.1    | 88    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 50.255  | -0.5   | 88    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 48.703  | 2.6    | 87    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 89    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 48.016  | 4.0    | 88    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 48.027  | 3.9    | 89    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 59.156  | -18.3  | 112   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 46.465  | 7.1    | 88    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 44.358  | 11.3   | 80    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 51.055  | -2.1   | 95    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 53.197  | -6.4   | 88    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 48.073  | 3.9    | 89    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 58.205  | -16.4  | 102   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 47.201  | 5.6    | 89    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 53.631  | -7.3#  | 98    | 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   | 50.131   | -0.3   | 93    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 50.625   | -1.3   | 91    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 59.537   | -19.1  | 107   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1204.113 | -20.4  | 112   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 47.150   | 5.7    | 88    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 322.946  | -29.2# | 111   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 51.236   | -2.5#  | 92    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 48.815   | 2.4    | 86    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 48.959   | 2.1    | 86    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 53.278   | -6.6   | 95    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 56.862   | -13.7  | 98    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 53.609   | -7.2   | 95    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 286.237  | -14.5  | 99    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 317.000  | -26.8# | 111   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 50.728   | -1.5   | 92    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 53.200   | -6.4   | 94    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 47.294   | 5.4    | 87    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 89    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 44.328   | 11.3   | 86    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.148   | 1.7    | 91    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 50.984   | -2.0   | 92    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 49.986   | 0.0#   | 89    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 99.283   | 0.7    | 89    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.962   | -1.9   | 91    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.225   | -6.5   | 92    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 52.647   | -5.3   | 93    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 84    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 50.336   | -0.7   | 86    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 54.968   | -9.9   | 99    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 55.639   | -11.3  | 97    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 52.253   | -4.5   | 97    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 51.289   | -2.6   | 90    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 49.945   | 0.1    | 87    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 50.929   | -1.9   | 90    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.392   | -2.8   | 88    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 50.342   | -0.7   | 84    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.537   | -1.1   | 88    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 49.597   | 0.8    | 85    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 51.224   | -2.4   | 85    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 49.688   | 0.6    | 85    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 49.900   | 0.2    | 83    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.250   | 1.5    | 85    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 47.166   | 5.7    | 86    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 44.972   | 10.1   | 77    | 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 | 49.935 | 0.1  | 85    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 50.144 | -0.3 | 89    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 54.563 | -9.1 | 96    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 42.494 | 15.0 | 75    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 47.979 | 4.0  | 83    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 41.949 | 16.1 | 74    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 42.885 | 14.2 | 76    | 0.00     |

(#) = Out of Range

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