

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN120920\  
 Data File : VN065035.D  
 Acq On : 9 Dec 2020 21:03  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 10 05:03:01 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N112320W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 23 13:54:12 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    | 99    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 40.643  | 18.7   | 86    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 42.610  | 14.8   | 90    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 44.114  | 11.8#  | 94    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 43.489  | 13.0   | 92    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 47.149  | 5.7    | 98    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 47.808  | 4.4    | 100   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 48.959  | 2.1    | 101   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 48.352  | 3.3    | 100   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 47.243  | 5.5    | 94    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 216.428 | 13.4   | 86    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 46.624  | 6.8#   | 97    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 319.431 | -27.8# | 131   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 46.069  | 7.9    | 95    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 249.129 | 0.3    | 98    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 246.224 | 1.5    | 99    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 41.913  | 16.2   | 86    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 52.217  | -4.4   | 107   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 51.152  | -2.3   | 101   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 46.635  | 6.7    | 103   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 46.254  | 7.5    | 97    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 52.411  | -4.8   | 103   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 255.683 | -2.3   | 99    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 50.541  | -1.1   | 102   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 245.440 | 1.8    | 93    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 44.575  | 10.8   | 91    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 49.668  | 0.7    | 102   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 48.933  | 2.1    | 100   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 238.881 | 4.4    | 92    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 51.149  | -2.3#  | 105   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 43.701  | 12.6   | 93    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 49.793  | 0.4    | 102   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 48.451  | 3.1    | 101   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 102   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 51.342  | -2.7   | 109   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 47.772  | 4.5    | 99    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 45.039  | 9.9    | 92    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 48.987  | 2.0    | 100   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 43.683  | 12.6   | 90    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 48.622  | 2.8    | 101   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 48.131  | 3.7    | 109   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 48.626  | 2.7    | 102   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 47.852  | 4.3    | 96    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 46.185  | 7.6    | 98    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 52.352  | -4.7#  | 108   | 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   | 50.530  | -1.1  | 104   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 50.781  | -1.6  | 104   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 50.008  | -0.0  | 98    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 902.808 | 9.7   | 90    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 48.432  | 3.1   | 103   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 247.738 | 0.9   | 97    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.783  | -1.6# | 104   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 49.143  | 1.7   | 101   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 49.889  | 0.2   | 101   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 50.580  | -1.2  | 107   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 51.138  | -2.3  | 98    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 50.616  | -1.2  | 104   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 240.808 | 3.7   | 92    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 245.743 | 1.7   | 95    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 51.848  | -3.7  | 104   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 49.903  | 0.2   | 102   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 49.044  | 1.9   | 104   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 100   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 45.569  | 8.9   | 94    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 50.563  | -1.1  | 105   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 54.157  | -8.3  | 108   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 51.436  | -2.9# | 102   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 106.315 | -6.3  | 104   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 53.633  | -7.3  | 104   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 55.205  | -10.4 | 106   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.257  | -2.5  | 103   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 103   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 51.418  | -2.8  | 103   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 48.750  | 2.5   | 96    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 51.837  | -3.7  | 109   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 44.173  | 11.7  | 90    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 50.100  | -0.2  | 107   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 50.632  | -1.3  | 101   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 49.494  | 1.0   | 103   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 52.990  | -6.0  | 104   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 47.181  | 5.6   | 93    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 49.914  | 0.2   | 104   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 52.334  | -4.7  | 105   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 53.278  | -6.6  | 106   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 50.792  | -1.6  | 101   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 51.261  | -2.5  | 100   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.768  | 0.5   | 105   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 47.511  | 5.0   | 105   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 47.256  | 5.5   | 96    | 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 | 52.095 | -4.2 | 104   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 50.540 | -1.1 | 107   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 46.253 | 7.5  | 97    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 41.110 | 17.8 | 89    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 47.941 | 4.1  | 102   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 41.349 | 17.3 | 87    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 41.964 | 16.1 | 90    | 0.00     |

(#) = Out of Range

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