

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN072220\  
 Data File : VN062586.D  
 Acq On : 22 Jul 2020 10:27  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 23 07:21:00 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N072120W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 21 18:48:59 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   | 89    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 49.045  | 1.9   | 92    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 49.265  | 1.5   | 94    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 47.461  | 5.1#  | 87    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 47.839  | 4.3   | 90    | -0.03    |
| 6 T   | Chloroethane                | 50.000  | 50.090  | -0.2  | 89    | -0.02    |
| 7 T   | Trichlorofluoromethane      | 50.000  | 47.855  | 4.3   | 85    | -0.01    |
| 8 T   | Diethyl Ether               | 50.000  | 51.003  | -2.0  | 91    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 51.236  | -2.5  | 95    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 51.083  | -2.2  | 90    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 235.379 | 5.8   | 87    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 47.919  | 4.2#  | 87    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 248.585 | 0.6   | 88    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 49.477  | 1.0   | 88    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 255.421 | -2.2  | 88    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 273.831 | -9.5  | 101   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 46.288  | 7.4   | 87    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 50.768  | -1.5  | 92    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 51.298  | -2.6  | 91    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 47.811  | 4.4   | 91    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.102  | 5.8   | 86    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 51.421  | -2.8  | 91    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 262.609 | -5.0  | 89    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 49.925  | 0.2   | 90    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 262.890 | -5.2  | 92    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 48.434  | 3.1   | 90    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 48.887  | 2.2   | 88    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 52.318  | -4.6  | 92    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 253.446 | -1.4  | 88    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 49.151  | 1.7#  | 90    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 46.617  | 6.8   | 88    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 49.283  | 1.4   | 89    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 48.957  | 2.1   | 89    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 88    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 49.861  | 0.3   | 88    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 49.927  | 0.1   | 88    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 51.526  | -3.1  | 88    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 51.366  | -2.7  | 89    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 51.873  | -3.7  | 91    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 50.627  | -1.3  | 89    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 60.510  | -21.0 | 110   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 51.529  | -3.1  | 90    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 52.915  | -5.8  | 89    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 49.762  | 0.5   | 88    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.796  | -3.6# | 91    | 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   | 51.933   | -3.9  | 90    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 51.788   | -3.6  | 91    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 54.419   | -8.8  | 92    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1086.267 | -8.6  | 91    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 49.485   | 1.0   | 88    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 271.937  | -8.8  | 91    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 52.867   | -5.7# | 91    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 53.743   | -7.5  | 91    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 54.259   | -8.5  | 92    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 53.413   | -6.8  | 92    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 50.750   | -1.5  | 92    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 52.822   | -5.6  | 91    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 255.782  | -2.3  | 98    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 257.743  | -3.1  | 90    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 54.075   | -8.2  | 91    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 52.821   | -5.6  | 91    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 51.405   | -2.8  | 90    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 89    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 48.558   | 2.9   | 89    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 51.101   | -2.2  | 91    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 50.783   | -1.6  | 91    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 51.704   | -3.4# | 91    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 105.622  | -5.6  | 92    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 54.110   | -8.2  | 94    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 55.333   | -10.7 | 93    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 53.193   | -6.4  | 92    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 92    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 49.538   | 0.9   | 92    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 53.766   | -7.5  | 91    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 47.638   | 4.7   | 91    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 44.510   | 11.0  | 83    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 49.984   | 0.0   | 96    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 50.838   | -1.7  | 93    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 50.077   | -0.2  | 93    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 52.645   | -5.3  | 94    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 51.151   | -2.3  | 94    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.318   | -0.6  | 94    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 51.001   | -2.0  | 92    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 53.028   | -6.1  | 95    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 51.458   | -2.9  | 93    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 53.834   | -7.7  | 95    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.365   | -0.7  | 95    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 50.496   | -1.0  | 94    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 52.394   | -4.8  | 95    | 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 | 48.034 | 3.9  | 93    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 50.690 | -1.4 | 93    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 51.431 | -2.9 | 95    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 46.300 | 7.4  | 92    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 52.861 | -5.7 | 95    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 46.341 | 7.3  | 93    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 51.763 | -3.5 | 93    | 0.00     |

(#) = Out of Range

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