

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN081920\  
 Data File : VN063001.D  
 Acq On : 19 Aug 2020 9:46  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 19 14:03:22 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N081820W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 19 06:09:27 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   | 100   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 52.771  | -5.5  | 104   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 53.676  | -7.4  | 100   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 53.125  | -6.3# | 95    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 57.234  | -14.5 | 109   | 0.02     |
| 6 T   | Chloroethane                | 50.000  | 54.623  | -9.2  | 102   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 52.863  | -5.7  | 101   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 50.172  | -0.3  | 104   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.920  | 0.2   | 104   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 53.223  | -6.4  | 100   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 237.735 | 4.9   | 95    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 47.904  | 4.2#  | 101   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 164.577 | 34.2# | 95    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 48.958  | 2.1   | 99    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 254.363 | -1.7  | 97    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 311.248 | -24.5 | 124   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 49.887  | 0.2   | 100   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 47.009  | 6.0   | 97    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 53.855  | -7.7  | 101   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 50.646  | -1.3  | 101   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 50.862  | -1.7  | 99    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 52.712  | -5.4  | 99    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 251.270 | -0.5  | 98    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 49.712  | 0.6   | 99    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 270.027 | -8.0  | 107   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 53.544  | -7.1  | 111   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 51.500  | -3.0  | 103   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 49.195  | 1.6   | 102   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 265.963 | -6.4  | 100   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 51.714  | -3.4# | 104   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 52.616  | -5.2  | 101   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 51.521  | -3.0  | 104   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 51.933  | -3.9  | 108   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 98    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 53.550  | -7.1  | 106   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 53.011  | -6.0  | 102   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 51.349  | -2.7  | 99    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 53.312  | -6.6  | 103   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 51.890  | -3.8  | 103   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 53.414  | -6.8  | 103   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 50.220  | -0.4  | 93    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 54.483  | -9.0  | 106   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 53.160  | -6.3  | 101   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 52.275  | -4.5  | 103   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 54.205  | -8.4# | 105   | 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) |
|-------|-----------------------------|----------|---------|--------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 55.159  | -10.3  | 104   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 54.553  | -9.1   | 103   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 54.909  | -9.8   | 102   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 990.481 | 1.0    | 96    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 54.148  | -8.3   | 105   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 274.139 | -9.7   | 101   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 55.903  | -11.8# | 103   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 56.576  | -13.2  | 105   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 56.588  | -13.2  | 106   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 54.520  | -9.0   | 104   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 50.610  | -1.2   | 103   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 55.179  | -10.4  | 106   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 228.405 | 8.6    | 97    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 278.372 | -11.3  | 102   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 55.157  | -10.3  | 106   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 55.816  | -11.6  | 104   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 55.126  | -10.3  | 107   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0    | 99    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 52.225  | -4.5   | 103   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 52.764  | -5.5   | 103   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 52.909  | -5.8   | 104   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 55.601  | -11.2# | 103   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 114.579 | -14.6  | 103   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 56.413  | -12.8  | 102   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 50.928  | -1.9   | 103   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 53.832  | -7.7   | 104   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0    | 98    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 55.121  | -10.2  | 104   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 56.054  | -12.1  | 100   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 54.104  | -8.2   | 102   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 55.276  | -10.6  | 108   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 53.284  | -6.6   | 105   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 57.262  | -14.5  | 104   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 53.744  | -7.5   | 104   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 57.437  | -14.9  | 103   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 54.835  | -9.7   | 101   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 55.548  | -11.1  | 105   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 55.142  | -10.3  | 101   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 58.197  | -16.4  | 104   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 56.702  | -13.4  | 104   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 58.241  | -16.5  | 104   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 54.700  | -9.4   | 105   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 53.775  | -7.5   | 104   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 50.855  | -1.7   | 105   | 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) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 52.570 | -5.1  | 104   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 54.937 | -9.9  | 105   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 56.765 | -13.5 | 104   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 51.367 | -2.7  | 112   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 52.358 | -4.7  | 104   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 49.305 | 1.4   | 114   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 52.226 | -4.5  | 113   | 0.00     |

(#) = Out of Range

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