

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN012220\  
 Data File : VN059821.D  
 Acq On : 22 Jan 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: Jan 22 17:35:24 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N011320W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jan 18 03:09:32 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    | 110   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 45.736  | 8.5    | 99    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 43.474  | 13.1   | 95    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 48.352  | 3.3#   | 100   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 48.196  | 3.6    | 104   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 47.520  | 5.0    | 104   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 48.140  | 3.7    | 104   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 48.202  | 3.6    | 104   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 50.508  | -1.0   | 108   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 46.780  | 6.4    | 101   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 220.511 | 11.8   | 95    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 46.331  | 7.3#   | 102   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 218.531 | 12.6   | 100   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 46.366  | 7.3    | 100   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 235.271 | 5.9    | 99    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 329.455 | -31.8# | 138   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 43.092  | 13.8   | 94    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 46.804  | 6.4    | 102   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 48.115  | 3.8    | 105   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 47.015  | 6.0    | 104   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.002  | 6.0    | 103   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 47.506  | 5.0    | 104   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 237.293 | 5.1    | 109   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 47.318  | 5.4    | 104   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 250.346 | -0.1   | 112   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 47.687  | 4.6    | 107   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 48.328  | 3.3    | 105   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 48.320  | 3.4    | 107   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 221.204 | 11.5   | 97    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 48.694  | 2.6#   | 106   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 42.473  | 15.1   | 97    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 48.423  | 3.2    | 105   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 50.647  | -1.3   | 109   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 107   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 52.215  | -4.4   | 110   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 48.016  | 4.0    | 102   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 44.897  | 10.2   | 100   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.442  | 1.1    | 107   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 47.678  | 4.6    | 102   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 47.550  | 4.9    | 104   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 44.479  | 11.0   | 97    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.053  | 1.9    | 106   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 45.872  | 8.3    | 99    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 50.971  | -1.9   | 106   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 48.447  | 3.1#   | 103   | 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   | 49.564   | 0.9  | 106   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 50.248   | -0.5 | 108   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 44.911   | 10.2 | 96    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1001.543 | -0.2 | 101   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 51.112   | -2.2 | 108   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 230.374  | 7.9  | 99    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 49.285   | 1.4# | 105   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 50.833   | -1.7 | 106   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.366   | -0.7 | 105   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 49.000   | 2.0  | 107   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 48.078   | 3.8  | 102   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 50.473   | -0.9 | 106   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 252.248  | -0.9 | 97    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 251.188  | -0.5 | 102   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 51.573   | -3.1 | 109   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 49.895   | 0.2  | 105   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 51.442   | -2.9 | 110   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0  | 110   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 48.423   | 3.2  | 97    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.380   | 1.2  | 107   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 49.808   | 0.4  | 109   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 48.557   | 2.9# | 106   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 98.658   | 1.3  | 106   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 48.588   | 2.8  | 106   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 48.688   | 2.6  | 103   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.871   | -3.7 | 109   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0  | 109   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 48.469   | 3.1  | 107   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 44.348   | 11.3 | 95    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 46.670   | 6.7  | 103   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 52.300   | -4.6 | 111   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 48.519   | 3.0  | 106   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 48.683   | 2.6  | 106   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 47.316   | 5.4  | 106   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 48.517   | 3.0  | 107   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 48.329   | 3.3  | 104   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 48.996   | 2.0  | 107   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 48.143   | 3.7  | 106   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 49.510   | 1.0  | 109   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 48.912   | 2.2  | 106   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 48.969   | 2.1  | 108   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.424   | -0.8 | 110   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.745   | 0.5  | 109   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 49.898   | 0.2  | 107   | 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 | 48.709 | 2.6  | 106   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 49.391 | 1.2  | 108   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 45.865 | 8.3  | 99    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 51.265 | -2.5 | 104   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 49.938 | 0.1  | 109   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 46.264 | 7.5  | 94    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 49.046 | 1.9  | 102   | 0.00     |

(#) = Out of Range

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