

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN011923\  
 Data File : VN076310.D  
 Acq On : 19 Jan 2023 09:47  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jan 20 00:49:14 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N011623W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 17 03:59:22 2023  
 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   | 117   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 45.966  | 8.1   | 105   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 43.764  | 12.5  | 105   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 44.735  | 10.5# | 106   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 48.429  | 3.1   | 118   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 46.036  | 7.9   | 115   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 48.402  | 3.2   | 116   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 48.696  | 2.6   | 112   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 45.906  | 8.2   | 110   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 47.971  | 4.1   | 111   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 222.910 | 10.8  | 104   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 46.237  | 7.5#  | 109   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 219.284 | 12.3  | 105   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 46.206  | 7.6   | 110   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 220.077 | 12.0  | 102   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 234.555 | 6.2   | 113   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 42.665  | 14.7  | 101   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 42.327  | 15.3  | 103   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 48.645  | 2.7   | 112   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 47.471  | 5.1   | 114   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 45.622  | 8.8   | 110   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 48.276  | 3.4   | 111   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 238.998 | 4.4   | 105   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 46.340  | 7.3   | 110   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 221.290 | 11.5  | 104   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 48.237  | 3.5   | 109   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 46.783  | 6.4   | 111   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 48.885  | 2.2   | 113   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 225.677 | 9.7   | 101   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 47.234  | 5.5#  | 112   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 41.597  | 16.8  | 107   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 46.924  | 6.2   | 111   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 48.588  | 2.8   | 115   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 118   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 48.588  | 2.8   | 117   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 46.456  | 7.1   | 109   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 43.533  | 12.9  | 105   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 46.542  | 6.9   | 109   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 49.262  | 1.5   | 110   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 46.763  | 6.5   | 110   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 45.518  | 9.0   | 105   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 45.823  | 8.4   | 109   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 46.593  | 6.8   | 107   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 46.713  | 6.6   | 115   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 47.020  | 6.0#  | 112   | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 46.978  | 6.0   | 111   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 48.030  | 3.9   | 111   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 45.904  | 8.2   | 105   | 0.00     |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
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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) |
|-------|-----------------------------|----------|---------|------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 1000.000 | 977.790 | 2.2  | 107   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 49.217  | 1.6  | 115   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 229.508 | 8.2  | 103   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 46.098  | 7.8# | 109   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.505  | -3.0 | 110   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 49.011  | 2.0  | 111   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 46.842  | 6.3  | 113   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 50.799  | -1.6 | 109   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 46.527  | 6.9  | 109   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 248.981 | 0.4  | 108   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 231.229 | 7.5  | 103   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 51.052  | -2.1 | 113   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 48.489  | 3.0  | 111   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 52.476  | -5.0 | 119   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0  | 116   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 45.790  | 8.4  | 122   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 47.192  | 5.6  | 112   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 48.013  | 4.0  | 113   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 49.134  | 1.7# | 110   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 99.284  | 0.7  | 113   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 49.274  | 1.5  | 111   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 50.638  | -1.3 | 111   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 50.694  | -1.4 | 110   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0  | 115   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 47.897  | 4.2  | 112   | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 46.825  | 6.3  | 105   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 43.621  | 12.8 | 105   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 48.694  | 2.6  | 111   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 48.931  | 2.1  | 114   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 47.977  | 4.0  | 110   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 45.828  | 8.3  | 110   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 48.403  | 3.2  | 111   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 46.837  | 6.3  | 101   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 45.828  | 8.3  | 110   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 49.267  | 1.5  | 114   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 48.361  | 3.3  | 111   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 48.780  | 2.4  | 110   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 50.865  | -1.7 | 111   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 45.521  | 9.0  | 110   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 47.757  | 4.5  | 112   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 52.260  | -4.5 | 111   | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 49.015  | 2.0  | 109   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 45.415  | 9.2  | 110   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 45.643  | 8.7  | 98    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 48.380  | 3.2  | 111   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 46.246  | 7.5  | 107   | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 44.672  | 10.7 | 104   | 0.00     |

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ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
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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) |
|------|------------------------|--------|--------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 47.170 | 5.7  | 109   | 0.00     |

(#) = Out of Range                      SPCC's out = 0    CCC's out = 6