

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN120524\  
 Data File : VN085115.D  
 Acq On : 05 Dec 2024 17:00  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 06 00:49:51 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N112224W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 23 02:54:10 2024  
 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   | 101   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 44.094  | 11.8  | 90    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 41.897  | 16.2  | 94    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 48.252  | 3.5#  | 99    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 53.372  | -6.7  | 114   | 0.05     |
| 6 T   | Chloroethane                | 50.000  | 45.737  | 8.5   | 97    | 0.05     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 50.773  | -1.5  | 106   | 0.04     |
| 8 T   | Diethyl Ether               | 50.000  | 53.694  | -7.4  | 106   | 0.01     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 51.456  | -2.9  | 107   | 0.02     |
| 10 T  | Methyl Iodide               | 50.000  | 50.880  | -1.8  | 103   | 0.01     |
| 11 T  | Tert butyl alcohol          | 250.000 | 263.096 | -5.2  | 112   | -0.02    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 52.296  | -4.6# | 107   | 0.02     |
| 13 T  | Acrolein                    | 250.000 | 246.338 | 1.5   | 90    | 0.01     |
| 14 T  | Allyl chloride              | 50.000  | 45.696  | 8.6   | 93    | 0.01     |
| 15 T  | Acrylonitrile               | 250.000 | 280.959 | -12.4 | 116   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 293.535 | -17.4 | 121   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 47.886  | 4.2   | 103   | 0.01     |
| 18 T  | Methyl Acetate              | 50.000  | 54.330  | -8.7  | 110   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 54.683  | -9.4  | 108   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 50.252  | -0.5  | 109   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 52.357  | -4.7  | 105   | 0.02     |
| 22 T  | Diisopropyl ether           | 50.000  | 53.277  | -6.6  | 108   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 284.921 | -14.0 | 110   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 51.873  | -3.7  | 107   | 0.01     |
| 25 T  | 2-Butanone                  | 250.000 | 287.338 | -14.9 | 118   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 52.421  | -4.8  | 107   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 53.447  | -6.9  | 110   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 46.197  | 7.6   | 96    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 300.598 | -20.2 | 119   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 52.141  | -4.3# | 109   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 48.851  | 2.3   | 106   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 53.249  | -6.5  | 110   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 45.813  | 8.4   | 93    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 98    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 48.874  | 2.3   | 95    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 54.715  | -9.4  | 108   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 58.359  | -16.7 | 118   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 56.385  | -12.8 | 109   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 59.012  | -18.0 | 108   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 54.408  | -8.8  | 108   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 57.380  | -14.8 | 112   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 53.628  | -7.3  | 108   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 48.797  | 2.4   | 110   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 55.374  | -10.7 | 112   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 53.964  | -7.9# | 108   | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 56.719  | -13.4 | 113   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 56.257  | -12.5 | 111   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 60.468  | -20.9 | 116   | 0.00     |

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 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 06 00:49:51 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N112224W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 23 02:54:10 2024  
 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 | 1258.668 | -25.9# | 118   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 47.858   | 4.3    | 91    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 319.545  | -27.8# | 122   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 57.836   | -15.7# | 109   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 57.355   | -14.7  | 108   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 57.259   | -14.5  | 109   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 59.361   | -18.7  | 115   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 65.457   | -30.9# | 116   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 56.846   | -13.7  | 112   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 307.358  | -22.9  | 102   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 321.729  | -28.7# | 119   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 58.922   | -17.8  | 117   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 58.092   | -16.2  | 114   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 48.969   | 2.1    | 93    | 0.00     |
|       |                             |          |          |        |       |          |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 101   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 57.325   | -14.7  | 119   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 53.469   | -6.9   | 113   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 56.548   | -13.1  | 115   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 59.346   | -18.7# | 114   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 118.537  | -18.5  | 114   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 60.570   | -21.1  | 116   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 61.553   | -23.1  | 116   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 60.402   | -20.8  | 117   | 0.00     |
|       |                             |          |          |        |       |          |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 101   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 60.021   | -20.0  | 117   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 59.918   | -19.8  | 113   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 51.111   | -2.2   | 112   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 55.583   | -11.2  | 113   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 54.785   | -9.6   | 114   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 61.609   | -23.2  | 119   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 55.672   | -11.3  | 114   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 61.099   | -22.2  | 116   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 56.453   | -12.9  | 115   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 56.069   | -12.1  | 115   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 58.700   | -17.4  | 114   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 59.385   | -18.8  | 112   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 61.423   | -22.8  | 116   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 62.710   | -25.4# | 116   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.093   | -0.2   | 110   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 48.553   | 2.9    | 106   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 57.649   | -15.3  | 115   | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 54.070   | -8.1   | 111   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 49.277   | 1.4    | 106   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 51.896   | -3.8   | 111   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 46.403   | 7.2    | 101   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 49.583   | 0.8    | 111   | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 51.272   | -2.5   | 101   | 0.00     |

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Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
LabSampleId :  
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QLast Update : Sat Nov 23 02:54:10 2024  
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 | 48.405 | 3.2  | 101   | 0.00     |

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