

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN080118\  
 Data File : VN050233.D  
 Acq On : 1 Aug 2018 8:09  
 Operator : MD\SY  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 02 00:58:15 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N072418W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 26 18:10:10 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | Amount  | Calc.   | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|---------|---------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 50.000  | 50.000  | 0.0   | 99    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 45.832  | 8.3   | 85    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 43.360  | 13.3  | 89    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 42.034  | 15.9# | 86    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 38.264  | 23.5# | 77    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 41.420  | 17.2  | 88    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 43.486  | 13.0  | 92    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 44.855  | 10.3  | 91    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 45.746  | 8.5   | 98    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 24.862  | 50.3# | 48    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 214.492 | 14.2  | 87    | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 43.621  | 12.8# | 91    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 120.939 | 51.6# | 45    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 45.821  | 8.4   | 93    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 229.153 | 8.3   | 92    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 268.560 | -7.4  | 106   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 39.919  | 20.2# | 85    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 53.702  | -7.4  | 107   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 47.192  | 5.6   | 92    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 48.663  | 2.7   | 95    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 44.903  | 10.2  | 93    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 50.010  | -0.0  | 96    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 230.219 | 7.9   | 88    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 45.092  | 9.8   | 94    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 240.658 | 3.7   | 96    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 49.917  | 0.2   | 105   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 46.973  | 6.1   | 94    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 46.776  | 6.4   | 96    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 225.525 | 9.8   | 88    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 45.159  | 9.7#  | 95    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 45.046  | 9.9   | 91    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 45.176  | 9.6   | 94    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 46.200  | 7.6   | 95    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 97    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.536  | -1.1  | 97    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 49.966  | 0.1   | 95    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 46.024  | 8.0   | 88    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 48.043  | 3.9   | 94    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 52.070  | -4.1  | 97    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.304  | 1.4   | 94    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 40.696  | 18.6  | 96    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 47.241  | 5.5   | 93    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 46.079  | 7.8   | 91    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 47.906  | 4.2   | 96    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.830  | 0.3#  | 97    | 0.00     |

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | Amount   | Calc.    | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 48.705   | 2.6   | 93    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 49.446   | 1.1   | 97    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 49.660   | 0.7   | 88    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1036.700 | -3.7  | 93    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 51.232   | -2.5  | 97    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 250.899  | -0.4  | 90    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 52.273   | -4.5# | 95    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 53.502   | -7.0  | 98    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 52.607   | -5.2  | 98    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 49.761   | 0.5   | 96    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 46.782   | 6.4   | 93    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 50.535   | -1.1  | 95    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 218.629  | 12.5  | 85    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 243.395  | 2.6   | 94    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 51.500   | -3.0  | 96    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 49.469   | 1.1   | 94    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 54.461   | -8.9  | 100   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 98    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 46.318   | 7.4   | 92    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.548   | 0.9   | 98    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 49.256   | 1.5   | 99    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 53.299   | -6.6# | 97    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 109.431  | -9.4  | 98    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 54.557   | -9.1  | 98    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 50.896   | -1.8  | 99    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 49.692   | 0.6   | 96    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 99    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 50.494   | -1.0  | 99    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 47.226   | 5.5   | 91    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 49.611   | 0.8   | 96    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 46.164   | 7.7   | 97    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 47.351   | 5.3   | 99    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 53.177   | -6.4  | 100   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 50.426   | -0.9  | 99    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 53.482   | -7.0  | 100   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 49.048   | 1.9   | 95    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 52.083   | -4.2  | 100   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 53.131   | -6.3  | 101   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 54.026   | -8.1  | 99    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 53.752   | -7.5  | 101   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 55.914   | -11.8 | 102   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.637   | 0.7   | 99    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.602   | 0.8   | 99    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 55.849   | -11.7 | 102   | 0.00     |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 46.906 | 6.2  | 102   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 48.314 | 3.4  | 99    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 44.958 | 10.1 | 90    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 46.144 | 7.7  | 96    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 50.277 | -0.6 | 106   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 41.765 | 16.5 | 89    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 47.082 | 5.8  | 97    | 0.00     |

(#) = Out of Range

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