

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN041620\  
 Data File : VN061011.D  
 Acq On : 16 Apr 2020 14:52  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Apr 17 04:10:13 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N041620W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Apr 17 03:49:39 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   | 94    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 50.591  | -1.2  | 93    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 49.353  | 1.3   | 91    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 49.169  | 1.7#  | 91    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 52.079  | -4.2  | 98    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 52.411  | -4.8  | 95    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 51.320  | -2.6  | 94    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 54.597  | -9.2  | 101   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 50.296  | -0.6  | 96    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 56.202  | -12.4 | 107   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 241.536 | 3.4   | 93    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 50.162  | -0.3# | 95    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 240.293 | 3.9   | 96    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 48.813  | 2.4   | 95    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 270.512 | -8.2  | 99    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 242.730 | 2.9   | 87    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 50.318  | -0.6  | 96    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 53.199  | -6.4  | 97    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 53.758  | -7.5  | 102   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 52.561  | -5.1  | 99    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 51.750  | -3.5  | 98    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 53.519  | -7.0  | 100   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 269.050 | -7.6  | 99    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 51.673  | -3.3  | 97    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 257.229 | -2.9  | 94    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 50.563  | -1.1  | 94    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 52.528  | -5.1  | 99    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 50.421  | -0.8  | 93    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 256.131 | -2.5  | 95    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 52.580  | -5.2# | 99    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 46.994  | 6.0   | 93    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 50.673  | -1.3  | 95    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 48.281  | 3.4   | 96    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 94    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 49.618  | 0.8   | 97    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 50.829  | -1.7  | 95    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 50.811  | -1.6  | 96    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 52.862  | -5.7  | 94    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 51.911  | -3.8  | 96    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 51.427  | -2.9  | 97    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 56.694  | -13.4 | 102   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 54.863  | -9.7  | 102   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 53.472  | -6.9  | 99    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 51.581  | -3.2  | 98    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 53.437  | -6.9# | 101   | 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) |
|-------|-----------------------------|----------|---------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 56.194  | -12.4 | 103   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 54.252  | -8.5  | 100   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 54.207  | -8.4  | 98    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 965.519 | 3.4   | 91    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 46.105  | 7.8   | 92    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 268.298 | -7.3  | 97    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 51.697  | -3.4# | 96    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 55.749  | -11.5 | 102   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 54.734  | -9.5  | 100   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 54.918  | -9.8  | 101   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 56.996  | -14.0 | 100   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 54.182  | -8.4  | 101   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 259.895 | -4.0  | 107   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 265.731 | -6.3  | 95    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 55.344  | -10.7 | 100   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 54.957  | -9.9  | 102   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 47.520  | 5.0   | 94    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 94    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 51.442  | -2.9  | 97    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 51.774  | -3.5  | 98    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 53.269  | -6.5  | 100   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 51.651  | -3.3# | 97    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 104.688 | -4.7  | 98    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 52.789  | -5.6  | 99    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 55.233  | -10.5 | 99    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 56.469  | -12.9 | 100   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 93    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 50.370  | -0.7  | 96    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 52.983  | -6.0  | 99    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 52.400  | -4.8  | 99    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 53.749  | -7.5  | 104   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 51.483  | -3.0  | 99    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 51.781  | -3.6  | 96    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 51.444  | -2.9  | 97    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 52.190  | -4.4  | 97    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 51.955  | -3.9  | 98    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.723  | -3.4  | 97    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 50.480  | -1.0  | 95    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 52.480  | -5.0  | 97    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 51.341  | -2.7  | 95    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 52.633  | -5.3  | 97    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 51.635  | -3.3  | 97    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 51.738  | -3.5  | 98    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 53.145  | -6.3  | 97    | 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 | 51.698 | -3.4  | 96    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 52.591 | -5.2  | 99    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 54.724 | -9.4  | 97    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 55.354 | -10.7 | 99    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 52.069 | -4.1  | 97    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 53.999 | -8.0  | 96    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 53.901 | -7.8  | 97    | 0.00     |

(#) = Out of Range

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