

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN041520\  
 Data File : VN061001.D  
 Acq On : 16 Apr 2020 6:36  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 54 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Apr 16 08:15:29 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N031820W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 18 08:49:09 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   | 64    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 39.302  | 21.4  | 48    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 38.936  | 22.1  | 50    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 40.362  | 19.3# | 51    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 48.945  | 2.1   | 62    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 46.172  | 7.7   | 57    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 46.169  | 7.7   | 58    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 49.669  | 0.7   | 62    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 47.230  | 5.5   | 59    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 40.106  | 19.8  | 53    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 268.968 | -7.6  | 70    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 44.715  | 10.6# | 57    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 268.006 | -7.2  | 69    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 46.353  | 7.3   | 61    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 267.621 | -7.0  | 67    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 263.098 | -5.2  | 67    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 38.198  | 23.6  | 49    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 55.717  | -11.4 | 70    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 49.990  | 0.0   | 64    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 48.114  | 3.8   | 61    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 45.621  | 8.8   | 58    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 52.828  | -5.7  | 66    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 265.240 | -6.1  | 66    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 50.952  | -1.9  | 64    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 268.774 | -7.5  | 68    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 39.183  | 21.6  | 51    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 48.549  | 2.9   | 62    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 53.584  | -7.2  | 67    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 256.955 | -2.8  | 66    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 49.984  | 0.0#  | 64    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 43.765  | 12.5  | 58    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 49.587  | 0.8   | 62    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 53.401  | -6.8  | 68    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 66    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 53.176  | -6.4  | 69    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 46.832  | 6.3   | 60    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 49.268  | 1.5   | 66    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 46.624  | 6.8   | 59    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 44.313  | 11.4  | 57    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 47.311  | 5.4   | 62    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 52.042  | -4.1  | 68    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.562  | 0.9   | 65    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 50.825  | -1.7  | 66    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 46.057  | 7.9   | 59    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.454  | -0.9# | 65    | 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   | 49.280   | 1.4  | 63    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 50.365   | -0.7 | 65    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 51.100   | -2.2 | 66    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1093.665 | -9.4 | 67    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.700   | -1.4 | 65    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 265.702  | -6.3 | 67    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 47.293   | 5.4# | 61    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 48.769   | 2.5  | 62    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 47.222   | 5.6  | 61    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 49.803   | 0.4  | 64    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 52.443   | -4.9 | 65    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 50.617   | -1.2 | 65    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 250.424  | -0.2 | 62    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 265.946  | -6.4 | 66    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 50.826   | -1.7 | 64    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 49.672   | 0.7  | 62    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 51.373   | -2.7 | 67    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0  | 66    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 42.723   | 14.6 | 56    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 47.413   | 5.2  | 62    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 49.192   | 1.6  | 64    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 48.000   | 4.0# | 62    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 93.157   | 6.8  | 60    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 47.833   | 4.3  | 61    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 48.965   | 2.1  | 61    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 46.633   | 6.7  | 64    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0  | 66    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 47.533   | 4.9  | 63    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 49.822   | 0.4  | 65    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 51.380   | -2.8 | 68    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 44.473   | 11.1 | 61    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 46.687   | 6.6  | 62    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 47.338   | 5.3  | 62    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 46.752   | 6.5  | 62    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 46.630   | 6.7  | 61    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 43.740   | 12.5 | 57    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 47.743   | 4.5  | 63    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 47.421   | 5.2  | 63    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 47.601   | 4.8  | 62    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 48.350   | 3.3  | 63    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 47.588   | 4.8  | 62    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 47.432   | 5.1  | 63    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 47.251   | 5.5  | 62    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 48.710   | 2.6  | 63    | 0.00     |

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|      | Compound                    | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 52.101 | -4.2 | 66    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 48.388 | 3.2  | 63    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 49.788 | 0.4  | 67    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 49.816 | 0.4  | 63    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 46.626 | 6.7  | 62    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 49.401 | 1.2  | 63    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 49.336 | 1.3  | 65    | 0.00     |

(#) = Out of Range

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