

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN033020\  
 Data File : VN060775.D  
 Acq On : 30 Mar 2020 16:57  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 31 08:57:42 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   | 92    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 46.108  | 7.8   | 81    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 44.436  | 11.1  | 82    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 43.933  | 12.1# | 80    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 48.562  | 2.9   | 89    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 48.629  | 2.7   | 86    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 47.765  | 4.5   | 87    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 50.615  | -1.2  | 92    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 48.745  | 2.5   | 88    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 45.481  | 9.0   | 87    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 268.529 | -7.4  | 101   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 47.260  | 5.5#  | 87    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 301.825 | -20.7 | 111   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 48.815  | 2.4   | 92    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 265.388 | -6.2  | 96    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 257.406 | -3.0  | 95    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 44.757  | 10.5  | 83    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 54.462  | -8.9  | 98    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 48.906  | 2.2   | 91    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 48.507  | 3.0   | 89    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.087  | 5.8   | 87    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 50.977  | -2.0  | 92    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 262.451 | -5.0  | 94    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 50.037  | -0.1  | 91    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 266.721 | -6.7  | 97    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 52.175  | -4.3  | 97    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 48.909  | 2.2   | 90    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 52.412  | -4.8  | 95    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 257.595 | -3.0  | 95    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 49.457  | 1.1#  | 91    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 45.850  | 8.3   | 88    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 49.339  | 1.3   | 89    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 50.218  | -0.4  | 92    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 92    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.550  | -1.1  | 92    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 48.968  | 2.1   | 88    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 50.404  | -0.8  | 94    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.268  | 1.5   | 88    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 49.081  | 1.8   | 88    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 48.865  | 2.3   | 89    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 55.057  | -10.1 | 101   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.505  | 1.0   | 91    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 51.428  | -2.9  | 94    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 48.545  | 2.9   | 88    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.847  | -1.7# | 92    | 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   | 50.286   | -0.6  | 90    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 50.795   | -1.6  | 92    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 51.510   | -3.0  | 93    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1153.210 | -15.3 | 100   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 49.466   | 1.1   | 89    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 267.019  | -6.8  | 95    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 49.100   | 1.8#  | 89    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.494   | -3.0  | 91    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 49.918   | 0.2   | 91    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 50.086   | -0.2  | 91    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 52.113   | -4.2  | 90    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 50.624   | -1.2  | 91    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 247.868  | 0.9   | 86    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 268.744  | -7.5  | 94    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 51.575   | -3.2  | 91    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 50.822   | -1.6  | 90    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 50.172   | -0.3  | 92    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 92    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 45.342   | 9.3   | 84    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 48.433   | 3.1   | 89    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 49.498   | 1.0   | 91    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 48.903   | 2.2#  | 88    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 96.900   | 3.1   | 88    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 48.826   | 2.3   | 88    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 49.908   | 0.2   | 88    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 47.087   | 5.8   | 91    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 97    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 46.438   | 7.1   | 89    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 48.033   | 3.9   | 92    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 49.174   | 1.7   | 95    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 46.243   | 7.5   | 93    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 46.097   | 7.8   | 90    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 46.850   | 6.3   | 90    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 45.653   | 8.7   | 89    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 46.432   | 7.1   | 90    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 48.013   | 4.0   | 92    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 46.832   | 6.3   | 90    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 47.171   | 5.7   | 91    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 47.351   | 5.3   | 90    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 47.989   | 4.0   | 92    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 47.863   | 4.3   | 92    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 46.846   | 6.3   | 90    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 46.606   | 6.8   | 90    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 49.279   | 1.4   | 93    | 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 | 50.783 | -1.6 | 94    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 47.835 | 4.3  | 91    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 48.541 | 2.9  | 95    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 49.255 | 1.5  | 92    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 49.272 | 1.5  | 96    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 47.871 | 4.3  | 89    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 48.379 | 3.2  | 93    | 0.00     |

(#) = Out of Range

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