

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN091620\  
 Data File : VN063381.D  
 Acq On : 16 Sep 2020 22:17  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 17 04:49:40 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091620W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 16 13:05:20 2020  
 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    | 102   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 47.741  | 4.5    | 98    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 45.446  | 9.1    | 97    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 50.447  | -0.9#  | 101   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 50.898  | -1.8   | 107   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 47.305  | 5.4    | 101   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 49.241  | 1.5    | 100   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 49.328  | 1.3    | 97    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 46.758  | 6.5    | 96    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 50.076  | -0.2   | 100   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 221.611 | 11.4   | 91    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 48.969  | 2.1#   | 100   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 340.977 | -36.4# | 134   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 48.507  | 3.0    | 97    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 242.806 | 2.9    | 97    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 235.019 | 6.0    | 100   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 47.202  | 5.6    | 96    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 47.975  | 4.0    | 99    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 47.915  | 4.2    | 99    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 47.238  | 5.5    | 101   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.348  | 5.3    | 97    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 48.626  | 2.7    | 101   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 248.821 | 0.5    | 98    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 48.294  | 3.4    | 98    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 237.974 | 4.8    | 97    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 42.356  | 15.3   | 88    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 48.532  | 2.9    | 97    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 47.850  | 4.3    | 101   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 233.240 | 6.7    | 97    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 48.685  | 2.6#   | 100   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 45.218  | 9.6    | 97    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 47.772  | 4.5    | 98    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 46.674  | 6.7    | 99    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 103   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 45.406  | 9.2    | 98    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 47.425  | 5.2    | 97    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 48.284  | 3.4    | 98    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 47.910  | 4.2    | 97    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 46.141  | 7.7    | 95    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 48.310  | 3.4    | 99    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 53.388  | -6.8   | 108   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 48.425  | 3.2    | 99    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 46.726  | 6.5    | 96    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 48.692  | 2.6    | 101   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.159  | 1.7#   | 100   | 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   | 49.218  | 1.6   | 100   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 49.669  | 0.7   | 101   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 46.952  | 6.1   | 96    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 896.045 | 10.4  | 93    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 46.799  | 6.4   | 99    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 243.134 | 2.7   | 99    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.725  | -1.5# | 101   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 48.576  | 2.8   | 98    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 48.342  | 3.3   | 96    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 49.119  | 1.8   | 100   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 49.827  | 0.3   | 100   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 48.764  | 2.5   | 101   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 236.033 | 5.6   | 99    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 242.797 | 2.9   | 98    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 49.274  | 1.5   | 100   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 50.279  | -0.6  | 102   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 48.420  | 3.2   | 102   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 104   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 49.012  | 2.0   | 104   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 48.938  | 2.1   | 101   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 50.137  | -0.3  | 102   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 49.949  | 0.1#  | 103   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 98.830  | 1.2   | 101   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.824  | -1.6  | 103   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 52.084  | -4.2  | 102   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.001  | -2.0  | 101   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 101   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 49.428  | 1.1   | 101   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 49.620  | 0.8   | 101   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 48.101  | 3.8   | 101   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 44.605  | 10.8  | 99    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 50.649  | -1.3  | 104   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 49.928  | 0.1   | 102   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 49.652  | 0.7   | 103   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 50.411  | -0.8  | 101   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 45.979  | 8.0   | 96    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 49.146  | 1.7   | 102   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 49.404  | 1.2   | 101   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 49.663  | 0.7   | 99    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 49.325  | 1.3   | 101   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 49.739  | 0.5   | 100   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.094  | 1.8   | 100   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 48.565  | 2.9   | 99    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 48.932  | 2.1   | 98    | 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 | 48.695 | 2.6  | 100   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 49.636 | 0.7  | 100   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 46.420 | 7.2  | 94    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 47.884 | 4.2  | 93    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 46.188 | 7.6  | 93    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 47.377 | 5.2  | 92    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 46.302 | 7.4  | 90    | 0.00     |

(#) = Out of Range

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