

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX080620\  
 Data File : VX017797.D  
 Acq On : 06 Aug 2020 10:08  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 06 15:28:21 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X072320W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 24 05:48:09 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    | 69    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 46.900  | 6.2    | 64    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 42.746  | 14.5   | 59    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 46.473  | 7.1#   | 67    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 54.276  | -8.6   | 69    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 53.984  | -8.0   | 71    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 50.713  | -1.4   | 74    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 54.774  | -9.5   | 70    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 50.206  | -0.4   | 70    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 50.742  | -1.5   | 66    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 311.226 | -24.5# | 79    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.822  | 0.4#   | 69    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 267.235 | -6.9   | 70    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 53.008  | -6.0   | 71    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 292.213 | -16.9  | 74    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 268.774 | -7.5   | 72    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 43.328  | 13.3   | 61    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 65.221  | -30.4# | 84    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 51.442  | -2.9   | 69    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 58.054  | -16.1  | 72    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 48.706  | 2.6    | 67    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 46.037  | 7.9    | 65    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 234.404 | 6.2    | 63    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 46.359  | 7.3    | 67    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 263.217 | -5.3   | 70    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 53.958  | -7.9   | 77    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 48.308  | 3.4    | 69    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 48.401  | 3.2    | 69    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 265.160 | -6.1   | 68    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 51.896  | -3.8#  | 74    | -0.01    |
| 31 T  | Cyclohexane                 | 50.000  | 46.613  | 6.8    | 66    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 51.770  | -3.5   | 74    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 50.850  | -1.7   | 67    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 67    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 51.312  | -2.6   | 67    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 52.722  | -5.4   | 73    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 52.445  | -4.9   | 65    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 55.082  | -10.2  | 77    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 47.779  | 4.4    | 69    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 52.720  | -5.4   | 71    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 51.640  | -3.3   | 69    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 54.847  | -9.7   | 73    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 54.084  | -8.2   | 64    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 53.557  | -7.1   | 74    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.196  | -2.4#  | 75    | 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   | 51.214   | -2.4   | 75    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 56.323   | -12.6  | 78    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 54.051   | -8.1   | 73    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1086.968 | -8.7   | 75    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 52.050   | -4.1   | 68    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 294.629  | -17.9  | 73    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 53.373   | -6.7#  | 74    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 55.590   | -11.2  | 72    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 59.543   | -19.1  | 80    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 56.333   | -12.7  | 73    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 57.936   | -15.9  | 72    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 53.809   | -7.6   | 69    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 261.703  | -4.7   | 66    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 293.632  | -17.5  | 70    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 54.771   | -9.5   | 71    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 61.469   | -22.9# | 77    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 49.426   | 1.1    | 69    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 70    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 51.334   | -2.7   | 75    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 50.759   | -1.5   | 71    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 52.674   | -5.3   | 75    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 52.171   | -4.3#  | 73    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 103.765  | -3.8   | 71    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 52.964   | -5.9   | 72    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 54.447   | -8.9   | 72    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.761   | -3.5   | 69    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 72    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 54.034   | -8.1   | 76    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 53.778   | -7.6   | 70    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 55.886   | -11.8  | 83    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 58.909   | -17.8  | 82    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 54.144   | -8.3   | 77    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 60.084   | -20.2# | 85    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 56.200   | -12.4  | 81    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 58.499   | -17.0  | 80    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 53.905   | -7.8   | 76    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 57.129   | -14.3  | 81    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 53.190   | -6.4   | 73    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 55.145   | -10.3  | 74    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 55.103   | -10.2  | 76    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 54.379   | -8.8   | 75    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.058   | -0.1   | 70    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 50.449   | -0.9   | 73    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 52.459   | -4.9   | 74    | 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 | 51.362 | -2.7 | 73    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 50.295 | -0.6 | 73    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 51.027 | -2.1 | 76    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 52.148 | -4.3 | 71    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 49.387 | 1.2  | 67    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 53.648 | -7.3 | 68    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 52.581 | -5.2 | 70    | 0.00     |

(#) = Out of Range

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