

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX091620\  
 Data File : VX018429.D  
 Acq On : 16 Sep 2020 10:01  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 16 15:27:48 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082120W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 21 03:03:56 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   | 72    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 45.572  | 8.9   | 62    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 41.148  | 17.7  | 60    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 43.993  | 12.0# | 62    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 59.194  | -18.4 | 83    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 49.132  | 1.7   | 69    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 55.895  | -11.8 | 79    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 51.733  | -3.5  | 74    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 53.020  | -6.0  | 76    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 54.281  | -8.6  | 84    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 228.264 | 8.7   | 66    | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 46.021  | 8.0#  | 67    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 248.916 | 0.4   | 73    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 49.902  | 0.2   | 70    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 230.836 | 7.7   | 67    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 263.591 | -5.4  | 79    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 41.010  | 18.0  | 62    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 58.593  | -17.2 | 84    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 52.936  | -5.9  | 75    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 49.510  | 1.0   | 69    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 48.389  | 3.2   | 72    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 51.197  | -2.4  | 72    | -0.01    |
| 23 T  | Vinyl Acetate               | 250.000 | 245.063 | 2.0   | 68    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 50.545  | -1.1  | 72    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 233.823 | 6.5   | 67    | -0.01    |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 60.246  | -20.5 | 88    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 48.348  | 3.3   | 72    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 45.300  | 9.4   | 67    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 221.765 | 11.3  | 62    | -0.01    |
| 30 C  | Chloroform                  | 50.000  | 52.076  | -4.2# | 75    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 46.636  | 6.7   | 66    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 52.628  | -5.3  | 76    | -0.01    |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 48.501  | 3.0   | 72    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 67    | -0.01    |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.655  | -1.3  | 70    | -0.01    |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 54.017  | -8.0  | 71    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 47.867  | 4.3   | 65    | -0.02    |
| 38 T  | Carbon Tetrachloride        | 50.000  | 58.784  | -17.6 | 78    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 53.009  | -6.0  | 69    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 51.367  | -2.7  | 69    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 48.130  | 3.7   | 65    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 57.165  | -14.3 | 77    | -0.01    |
| 43 T  | Isopropyl Acetate           | 50.000  | 49.036  | 1.9   | 65    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 52.516  | -5.0  | 70    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.889  | -3.8# | 69    | -0.01    |

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 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) |
|-------|-----------------------------|----------|----------|--------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 52.282   | -4.6   | 71    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 55.744   | -11.5  | 73    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 50.038   | -0.1   | 66    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1011.906 | -1.2   | 63    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 46.654   | 6.7    | 64    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 247.674  | 0.9    | 64    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 52.384   | -4.8#  | 70    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 55.513   | -11.0  | 73    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 54.509   | -9.0   | 72    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 52.396   | -4.8   | 70    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 51.959   | -3.9   | 67    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 52.645   | -5.3   | 70    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 296.107  | -18.4  | 79    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 259.092  | -3.6   | 66    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 55.733   | -11.5  | 73    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 51.706   | -3.4   | 69    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 50.375   | -0.8   | 69    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 66    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 56.143   | -12.3  | 73    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 54.494   | -9.0   | 71    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 56.577   | -13.2  | 73    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 55.140   | -10.3# | 70    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 112.224  | -12.2  | 69    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 55.394   | -10.8  | 70    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 57.675   | -15.3  | 71    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 57.695   | -15.4  | 73    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 74    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 51.202   | -2.4   | 72    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 46.173   | 7.7    | 63    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 46.188   | 7.6    | 70    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 48.016   | 4.0    | 72    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 49.375   | 1.3    | 74    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 53.333   | -6.7   | 76    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 51.324   | -2.6   | 73    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 54.402   | -8.8   | 75    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 48.264   | 3.5    | 70    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 52.713   | -5.4   | 76    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 53.499   | -7.0   | 75    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 54.663   | -9.3   | 76    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 56.044   | -12.1  | 78    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 58.075   | -16.2  | 79    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.864   | -1.7   | 76    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 51.423   | -2.8   | 77    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 57.486   | -15.0  | 82    | 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) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 56.712 | -13.4 | 80    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 52.481 | -5.0  | 76    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 46.412 | 7.2   | 70    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 54.518 | -9.0  | 80    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 59.082 | -18.2 | 88    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 50.474 | -0.9  | 71    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 53.057 | -6.1  | 79    | 0.00     |

(#) = Out of Range

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