

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX042619\  
 Data File : VX009196.D  
 Acq On : 26 Apr 2019 17:44  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Apr 27 05:50:34 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X041519W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 17 06:47:58 2019  
 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   | 80    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 45.187  | 9.6   | 72    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 44.949  | 10.1  | 77    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 44.779  | 10.4# | 74    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 37.622  | 24.8# | 67    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 50.733  | -1.5  | 84    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 44.761  | 10.5  | 75    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 45.447  | 9.1   | 78    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 43.269  | 13.5  | 74    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 36.656  | 26.7# | 59    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 263.410 | -5.4  | 89    | 0.01     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 42.531  | 14.9# | 73    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 202.337 | 19.1  | 65    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 46.956  | 6.1   | 77    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 243.336 | 2.7   | 82    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 246.475 | 1.4   | 81    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 40.924  | 18.2  | 69    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 48.986  | 2.0   | 87    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 46.503  | 7.0   | 78    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 43.671  | 12.7  | 78    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 41.922  | 16.2  | 72    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 46.942  | 6.1   | 79    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 240.928 | 3.6   | 78    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 45.193  | 9.6   | 77    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 253.247 | -1.3  | 83    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 42.793  | 14.4  | 72    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 44.300  | 11.4  | 76    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 45.132  | 9.7   | 75    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 245.548 | 1.8   | 82    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 46.177  | 7.6#  | 78    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 43.496  | 13.0  | 73    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 45.795  | 8.4   | 76    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 43.127  | 13.7  | 73    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 81    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 42.952  | 14.1  | 72    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 42.293  | 15.4  | 74    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 49.215  | 1.6   | 80    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 44.923  | 10.2  | 75    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 42.761  | 14.5  | 72    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 44.649  | 10.7  | 76    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 48.481  | 3.0   | 80    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 45.113  | 9.8   | 77    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 47.875  | 4.3   | 79    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 42.722  | 14.6  | 74    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 46.003  | 8.0#  | 77    | 0.00     |

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 VSTDCCC050

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 Quant Title : SW846 8260  
 QLast Update : Wed Apr 17 06:47:58 2019  
 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) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 44.687   | 10.6  | 76    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 46.476   | 7.0   | 77    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 48.991   | 2.0   | 80    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1019.993 | -2.0  | 92    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 43.081   | 13.8  | 71    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 255.904  | -2.4  | 85    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 45.304   | 9.4#  | 77    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 46.618   | 6.8   | 74    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 45.839   | 8.3   | 75    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 45.900   | 8.2   | 77    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 48.857   | 2.3   | 80    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 45.883   | 8.2   | 77    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 223.262  | 10.7  | 73    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 260.655  | -4.3  | 86    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 47.429   | 5.1   | 76    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 46.030   | 7.9   | 76    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 45.665   | 8.7   | 75    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 83    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 40.652   | 18.7  | 72    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 43.881   | 12.2  | 78    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 45.073   | 9.9   | 77    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 44.925   | 10.2# | 78    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 90.401   | 9.6   | 79    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 45.418   | 9.2   | 79    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 46.171   | 7.7   | 80    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 47.717   | 4.6   | 80    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 86    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 44.915   | 10.2  | 79    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 49.157   | 1.7   | 86    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 46.842   | 6.3   | 84    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 45.534   | 8.9   | 83    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 43.655   | 12.7  | 79    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 45.080   | 9.8   | 78    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 45.219   | 9.6   | 81    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 45.517   | 9.0   | 80    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 46.302   | 7.4   | 76    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 44.487   | 11.0  | 79    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 46.646   | 6.7   | 83    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 44.953   | 10.1  | 80    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 45.403   | 9.2   | 80    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 44.784   | 10.4  | 79    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 44.391   | 11.2  | 80    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 43.749   | 12.5  | 81    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 43.963   | 12.1  | 76    | 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) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 45.723 | 8.6  | 78    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 46.052 | 7.9  | 84    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 47.961 | 4.1  | 87    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 43.775 | 12.5 | 78    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 43.566 | 12.9 | 78    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 46.625 | 6.8  | 83    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 45.231 | 9.5  | 82    | 0.00     |

(#) = Out of Range

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