

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX042718\  
 Data File : VX001164.D  
 Acq On : 27 Apr 2018 12:05  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Apr 27 17:43:11 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X042618W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Apr 27 01:51:42 2018  
 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   | 111   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 49.649  | 0.7   | 120   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 45.527  | 8.9   | 110   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 45.057  | 9.9#  | 106   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 54.748  | -9.5  | 119   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 44.054  | 11.9  | 101   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 47.427  | 5.1   | 113   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 43.202  | 13.6  | 100   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.248  | 1.5   | 118   | 0.01     |
| 10 T  | Methyl Iodide               | 50.000  | 45.145  | 9.7   | 110   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 177.269 | 29.1# | 79    | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 44.771  | 10.5# | 106   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 167.544 | 33.0# | 78    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 45.199  | 9.6   | 100   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 194.339 | 22.3# | 90    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 207.003 | 17.2  | 98    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 46.397  | 7.2   | 108   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 40.888  | 18.2  | 92    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 42.714  | 14.6  | 98    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 41.324  | 17.4  | 99    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 43.952  | 12.1  | 104   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 44.281  | 11.4  | 101   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 230.679 | 7.7   | 101   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 45.932  | 8.1   | 107   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 197.637 | 20.9# | 91    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 49.089  | 1.8   | 113   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 44.999  | 10.0  | 102   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 52.753  | -5.5  | 114   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 191.596 | 23.4# | 89    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 45.928  | 8.1#  | 104   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 49.746  | 0.5   | 117   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 47.647  | 4.7   | 106   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 42.831  | 14.3  | 102   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 104   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 49.921  | 0.2   | 105   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 50.030  | -0.1  | 112   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 42.267  | 15.5  | 92    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 52.489  | -5.0  | 113   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 55.800  | -11.6 | 123   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.460  | 1.1   | 105   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 43.824  | 12.4  | 95    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 48.160  | 3.7   | 102   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 46.068  | 7.9   | 97    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 50.764  | -1.5  | 110   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.084  | 1.8#  | 104   | 0.00     |

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 VSTDCCC050

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 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X042618W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Apr 27 01:51:42 2018  
 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   | 48.721  | 2.6   | 102   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 51.512  | -3.0  | 105   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 45.743  | 8.5   | 96    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 771.483 | 22.9# | 79    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.472  | -0.9  | 109   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 226.958 | 9.2   | 95    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 51.145  | -2.3# | 109   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 53.285  | -6.6  | 105   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 46.650  | 6.7   | 104   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 48.001  | 4.0   | 102   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 49.301  | 1.4   | 100   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 48.256  | 3.5   | 102   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 231.783 | 7.3   | 97    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 227.362 | 9.1   | 95    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 46.231  | 7.5   | 104   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 49.805  | 0.4   | 102   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 51.998  | -4.0  | 110   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 105   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 50.002  | -0.0  | 112   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.574  | 0.9   | 107   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 52.236  | -4.5  | 106   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 51.856  | -3.7# | 112   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 105.061 | -5.1  | 112   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 51.941  | -3.9  | 110   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 52.337  | -4.7  | 110   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 43.578  | 12.8  | 104   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 110   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 50.257  | -0.5  | 115   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 42.393  | 15.2  | 97    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 44.077  | 11.8  | 101   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 45.351  | 9.3   | 101   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 47.708  | 4.6   | 110   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 51.870  | -3.7  | 117   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 48.583  | 2.8   | 112   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.388  | -2.8  | 116   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 41.629  | 16.7  | 103   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 49.913  | 0.2   | 114   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 50.171  | -0.3  | 112   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 50.791  | -1.6  | 113   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 52.861  | -5.7  | 120   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 52.606  | -5.2  | 118   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.952  | 0.1   | 115   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.030  | 1.9   | 114   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 54.244  | -8.5  | 123   | 0.00     |

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Instrument :  
MSVOA\_X  
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Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X042618W.M  
Quant Title : SW846 8260  
QLast Update : Fri Apr 27 01:51:42 2018  
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) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 48.637 | 2.7  | 119   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 48.438 | 3.1  | 111   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 45.110 | 9.8  | 96    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 50.046 | -0.1 | 116   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 53.692 | -7.4 | 126   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 46.765 | 6.5  | 104   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 49.393 | 1.2  | 113   | 0.00     |

(#) = Out of Range

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