

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX042418\  
 Data File : VX001076.D  
 Acq On : 24 Apr 2018 11:43  
 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 25 07:19:24 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X041918W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Apr 20 05:03:28 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    | 106   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 49.958  | 0.1    | 98    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 45.156  | 9.7    | 95    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 44.695  | 10.6#  | 95    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 49.724  | 0.6    | 96    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 45.890  | 8.2    | 100   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 48.140  | 3.7    | 104   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 49.050  | 1.9    | 108   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 47.190  | 5.6    | 103   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 45.171  | 9.7    | 107   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 274.789 | -9.9   | 125   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 45.317  | 9.4#   | 98    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 426.925 | -70.8# | 205   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 47.590  | 4.8    | 103   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 246.488 | 1.4    | 111   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 285.402 | -14.2  | 130   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 41.413  | 17.2   | 91    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 56.331  | -12.7  | 116   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 50.704  | -1.4   | 111   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 50.928  | -1.9   | 107   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 44.479  | 11.0   | 100   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 48.739  | 2.5    | 104   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 245.919 | 1.6    | 106   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 46.624  | 6.8    | 103   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 259.984 | -4.0   | 117   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 46.694  | 6.6    | 100   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 46.743  | 6.5    | 102   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 53.081  | -6.2   | 114   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 250.868 | -0.3   | 112   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 48.746  | 2.5#   | 105   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 44.586  | 10.8   | 99    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 47.969  | 4.1    | 102   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 47.987  | 4.0    | 106   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 107   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 48.208  | 3.6    | 104   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 44.289  | 11.4   | 99    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 50.008  | -0.0   | 111   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 46.974  | 6.1    | 101   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 46.274  | 7.5    | 102   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 46.788  | 6.4    | 103   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 48.121  | 3.8    | 111   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.060  | 1.9    | 109   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 50.252  | -0.5   | 111   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 45.639  | 8.7    | 101   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.218  | 1.6#   | 105   | 0.00     |

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 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Apr 25 07:19:24 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X041918W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Apr 20 05:03:28 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   | 48.844   | 2.3   | 108   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 51.192   | -2.4  | 108   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 50.121   | -0.2  | 110   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1106.084 | -10.6 | 130   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 45.386   | 9.2   | 99    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 259.283  | -3.7  | 114   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 47.696   | 4.6#  | 104   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.012   | -2.0  | 105   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 52.240   | -4.5  | 106   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 50.020   | -0.0  | 109   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 51.060   | -2.1  | 109   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 49.103   | 1.8   | 108   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 236.336  | 5.5   | 101   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 265.077  | -6.0  | 117   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 52.478   | -5.0  | 107   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 50.866   | -1.7  | 109   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 45.981   | 8.0   | 102   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 107   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 46.621   | 6.8   | 104   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 47.260   | 5.5   | 105   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 51.313   | -2.6  | 107   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 47.202   | 5.6#  | 104   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 95.691   | 4.3   | 104   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 47.650   | 4.7   | 104   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 49.148   | 1.7   | 105   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 47.440   | 5.1   | 109   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 110   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 47.027   | 5.9   | 105   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 48.733   | 2.5   | 111   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 50.464   | -0.9  | 111   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 52.228   | -4.5  | 117   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 47.293   | 5.4   | 106   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 46.779   | 6.4   | 105   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 46.924   | 6.2   | 106   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 48.053   | 3.9   | 107   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 44.960   | 10.1  | 107   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 46.683   | 6.6   | 106   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 46.807   | 6.4   | 103   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 48.014   | 4.0   | 107   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 47.426   | 5.1   | 106   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 47.989   | 4.0   | 107   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 45.740   | 8.5   | 104   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 46.037   | 7.9   | 106   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 46.605   | 6.8   | 105   | 0.00     |

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MSVOA\_X  
LabSampleId :  
VSTDCCC050

Quant Time: Apr 25 07:19:24 2018  
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X041918W.M  
Quant Title : SW846 8260  
QLast Update : Fri Apr 20 05:03:28 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 | 50.547 | -1.1 | 106   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 47.481 | 5.0  | 107   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 53.348 | -6.7 | 115   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 46.103 | 7.8  | 105   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 46.817 | 6.4  | 109   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 49.916 | 0.2  | 110   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 46.797 | 6.4  | 107   | 0.00     |

(#) = Out of Range

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