

Data Path : W:\HPCHEM1\MSVOA X\Data\VX053018\  
 Data File : VX002142.D  
 Acq On : 30 May 2018 16:18  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 31 03:58:30 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X052418W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 24 13:09:03 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    | 80    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 40.724  | 18.6   | 63    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 43.280  | 13.4   | 72    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 44.946  | 10.1#  | 74    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 55.014  | -10.0  | 87    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 49.277  | 1.4    | 81    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 50.095  | -0.2   | 82    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 52.459  | -4.9   | 85    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 51.691  | -3.4   | 86    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 44.907  | 10.2   | 66    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 253.355 | -1.3   | 81    | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 48.500  | 3.0#   | 81    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 187.523 | 25.0#  | 66    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 49.904  | 0.2    | 82    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 260.852 | -4.3   | 84    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 255.510 | -2.2   | 84    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 44.157  | 11.7   | 73    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 56.310  | -12.6  | 86    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 52.057  | -4.1   | 85    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 55.911  | -11.8  | 86    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 54.462  | -8.9   | 83    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 45.500  | 9.0    | 72    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 254.050 | -1.6   | 82    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 51.741  | -3.5   | 85    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 209.956 | 16.0   | 67    | -0.01    |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 38.783  | 22.4#  | 65    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 43.566  | 12.9   | 71    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 60.097  | -20.2# | 90    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 211.263 | 15.5   | 68    | -0.01    |
| 30 C  | Chloroform                  | 50.000  | 43.635  | 12.7#  | 73    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 43.059  | 13.9   | 72    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 41.653  | 16.7   | 68    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 40.948  | 18.1   | 66    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 77    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 40.761  | 18.5   | 65    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 44.904  | 10.2   | 73    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 43.014  | 14.0   | 68    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 41.631  | 16.7   | 67    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 47.083  | 5.8    | 77    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 45.851  | 8.3    | 73    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 46.072  | 7.9    | 70    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 45.661  | 8.7    | 74    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 44.412  | 11.2   | 70    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 45.626  | 8.7    | 73    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 45.058  | 9.9#   | 73    | 0.00     |

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Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 31 03:58:30 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X052418W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 24 13:09:03 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   | 46.419  | 7.2   | 74    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 41.715  | 16.6  | 67    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 44.546  | 10.9  | 71    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 897.443 | 10.3  | 70    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 41.624  | 16.8  | 65    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 231.356 | 7.5   | 73    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 46.952  | 6.1#  | 75    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 43.891  | 12.2  | 69    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 43.707  | 12.6  | 69    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 46.122  | 7.8   | 75    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 44.761  | 10.5  | 73    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 47.048  | 5.9   | 76    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 227.687 | 8.9   | 73    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 230.742 | 7.7   | 73    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 42.875  | 14.2  | 68    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 46.970  | 6.1   | 75    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 43.624  | 12.8  | 68    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 78    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 46.343  | 7.3   | 76    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 46.570  | 6.9   | 76    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 43.380  | 13.2  | 71    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 46.873  | 6.3#  | 76    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 95.413  | 4.6   | 77    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 46.530  | 6.9   | 76    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 47.043  | 5.9   | 76    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 39.098  | 21.8# | 63    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 81    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 45.617  | 8.8   | 77    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 46.845  | 6.3   | 70    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 49.008  | 2.0   | 78    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 43.251  | 13.5  | 76    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 45.555  | 8.9   | 77    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 46.684  | 6.6   | 78    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 50.211  | -0.4  | 77    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 45.650  | 8.7   | 78    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 37.403  | 25.2# | 65    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 46.002  | 8.0   | 78    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 44.629  | 10.7  | 77    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 45.332  | 9.3   | 78    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 46.739  | 6.5   | 79    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 47.202  | 5.6   | 79    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 46.464  | 7.1   | 79    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 47.243  | 5.5   | 80    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 49.008  | 2.0   | 80    | 0.00     |

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Instrument :  
MSVOA\_X  
LabSampleId :  
VSTDCCC050

Quant Time: May 31 03:58:30 2018  
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X052418W.M  
Quant Title : SW846 8260  
QLast Update : Thu May 24 13:09:03 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 | 38.326 | 23.3# | 65    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 46.605 | 6.8   | 79    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 38.007 | 24.0# | 64    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 47.782 | 4.4   | 79    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 47.980 | 4.0   | 80    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 45.042 | 9.9   | 75    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 47.015 | 6.0   | 78    | 0.00     |

(#) = Out of Range

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