



## Solvent Purification System

Water content was determined by using a Mettler Toledo DL32 Karl Fischer Coulometer running four titrations with 2ml sample volumes.

### **Purification System Results**

Ethyl Ether	= 10.35 ± 2.28ppm
Tetrahydrofuran	= 12.26 ± 2.39ppm
Methylene Chloride	= 7.51 ± 2.26ppm
Toluene	= 11.14 ± 1.47ppm

These numbers are similar regardless of the batch of solvent we load into the system. Over several lots typical ppm determinations of solvents are as follows.

### **Starting Solvent**

Ethyl Ether	= 92 - 223ppm
Tetrahydrofuran	= 93 - 332ppm
Methylene Chloride	= 56 - 110ppm
Toluene	= 76 - 214ppm

The \*SPS-400\* was installed three years ago and has been in constant use. The original columns are still in use and at this time do not exhibit any signs of needing to be replaced.

The above data are particularly impressive because of the high Water content of the starting solvents. We have not seen any data published that shows the performance of a system as it relates to the water content of the starting solvents.