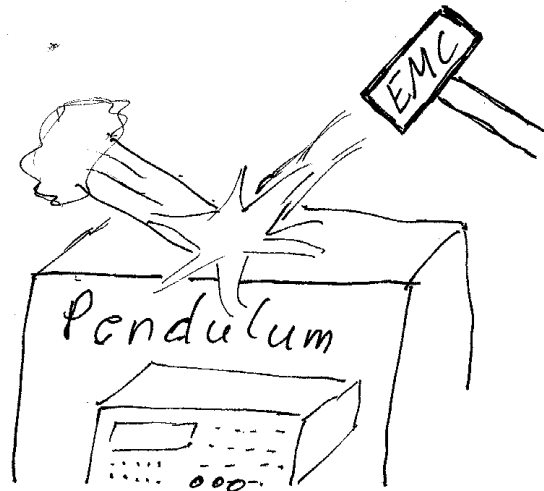
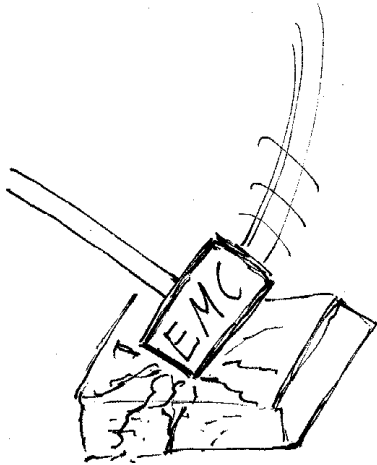




## Pendulum Success Story 2



**By changing to Pendulum counter, the customer saved money and avoided EMC problems in the test system!**

A company producing mobile telephones in Sweden had a strange problem in their test system. Every day the test system suddenly stopped working. Why did this happen? Following questions were investigated:

- Was it the power line in the building? NO
- Was it the synchronization and reference signals to the test system? NO
- Were there other equipment in the same room influencing the test system? NO

The company didn't find out what was wrong until one day when the test system was prepared for shipment to another location and had to be CE marked. In the test system they found that some instruments sent out significant electromagnetic radiation, but within allowed limits. This fact caused frequency miscounts of the Agilent counter in the system. In the product data sheet the following information was found:

"EMC  
Agilent 53 131A/ 132A/ 181A  
EN 55011=CISPR-11  
EN 50082-1 (Residential)  
Radiated Immunity Testing:  
When the product is operated at maximum sensitivity (20mVrms) and tested at 3V/m according to IEC 801-3 external 100 to 200MHz electric fields may cause frequency miscounts."

### What does this mean for your customer?

If you have equipment that transmit RF signals close to this counter, for example a mobile telephone, a radio test set, RF switches or something similar, Agilent can't guarantee that their counter will measure correctly.

The company contacted Pendulum to ask about the possibility to test the counter CNT-85 in their test system and wanted all facts on EMC. Pendulum counter models CNT-80/81/85 specify EMC as follows:

CNT-80/81/85	EN 55011=CISPR-11
	EN 50082-2 (Industrial)

Today the company does not have problems with their test system. By using the Pendulum counter designed and specified for test system environments (industrial EN 50082-2 instead of Residential EN 50082-1), they have a test system that works continuously.

**How is the test system of your customers?  
Are their instruments specified for a test system environment?**

### Pendulum Instruments AB