

# Software Operation:

- 1) Start the CPAT software from the shortcut
- 2) By putting User ID and password you can login the software.



3) To create new user

Utility → User Details



#### 4) For new CT Information Entry

Main → New CT Test

Intelligent Transformer testing Software - CT-CVT Test Pro

Main Utility

Work Order Entry Core Details

W.O.No.

Serial No. 28050002

Customer

Order Ref No.

Type Of Inspection

Testing Date

Issue Date

Tested By

Approved By

Elec Spec

Root Value

Ref. Standard

Trafo Type

Type

No. of C.T.

Insulation Class

NSV  HSV

No. of Taps  No. of Core

Ratio

Specified Dimensions  Frequency

Actual Dimensions

Terminal Arrangement

Witnessed By

Remark

Back Save Edit Next Save As Close Delete

3:54 PM 4/3/2014

Intelligent Transformer Testing Software - Transformer Test Pro

Main Utility

Work Order Entry Core Details

No of Taps	Core	Type of Core	Primary Ratio	Secondary Ratio	Accuracy Class	Burden (VA)	ISF	ALF	RCT @ 75° C	Kneepoint Voltage (Vk)	Curr. at Vk/4	Curr. at Vk/2	Curr. at Vk	Curr. at Vk1.1

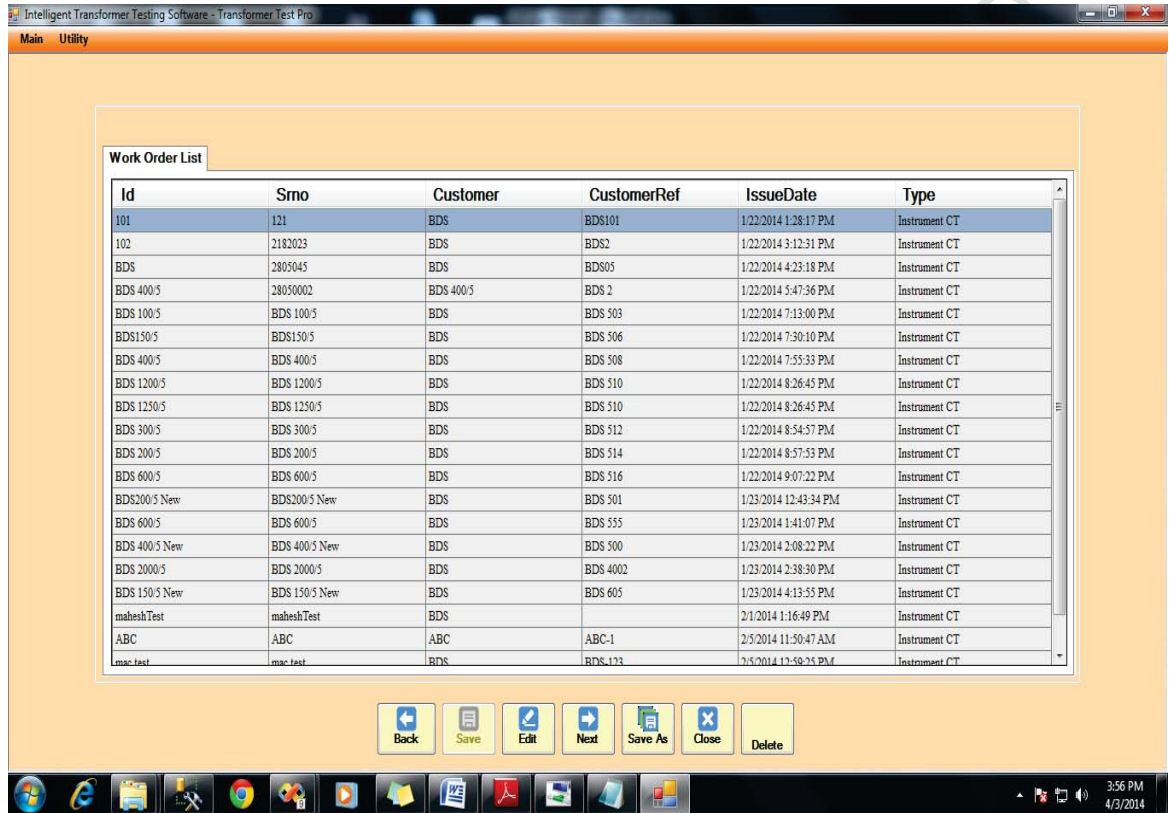
Back Save Edit Next Save As Close Delete

3:55 PM 4/3/2014

5) Fill all information, Save Data and click on Next Button to conduct the Test.

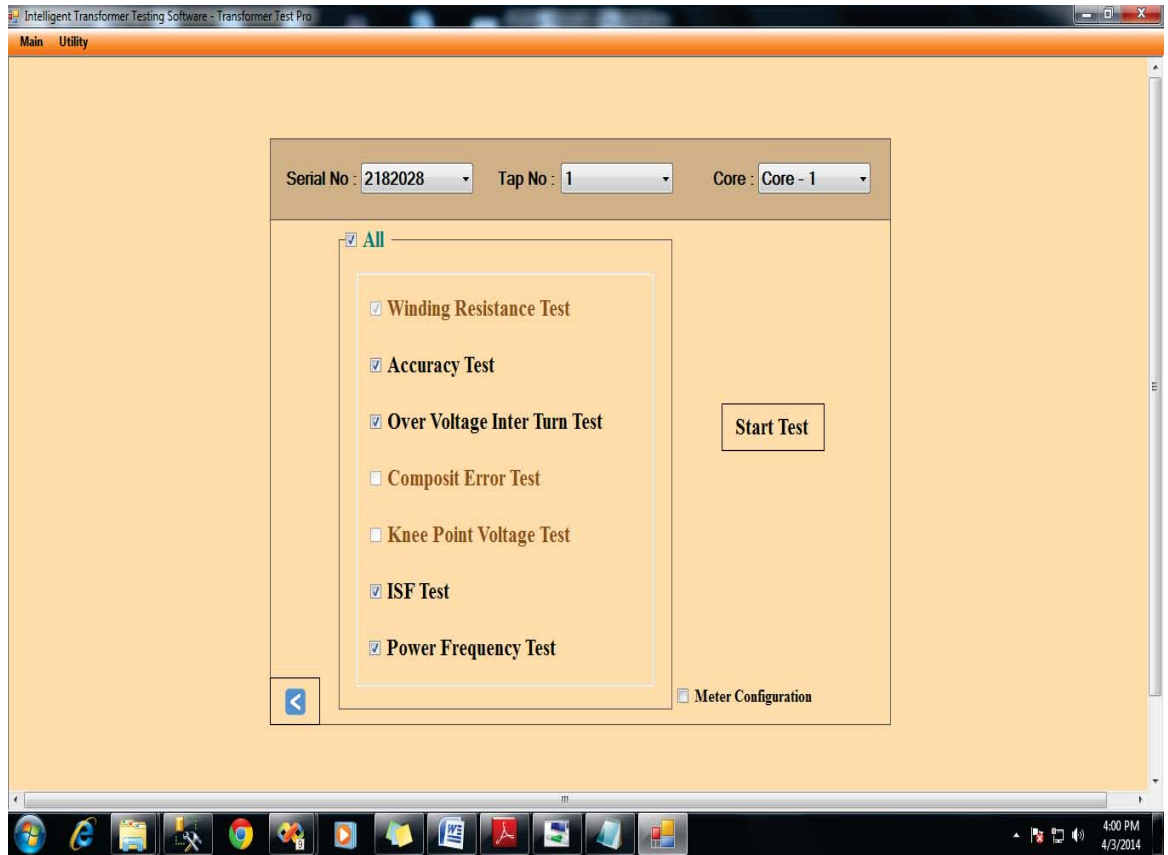
6) To Edit the saved information about CT

Main → Edit CT Test





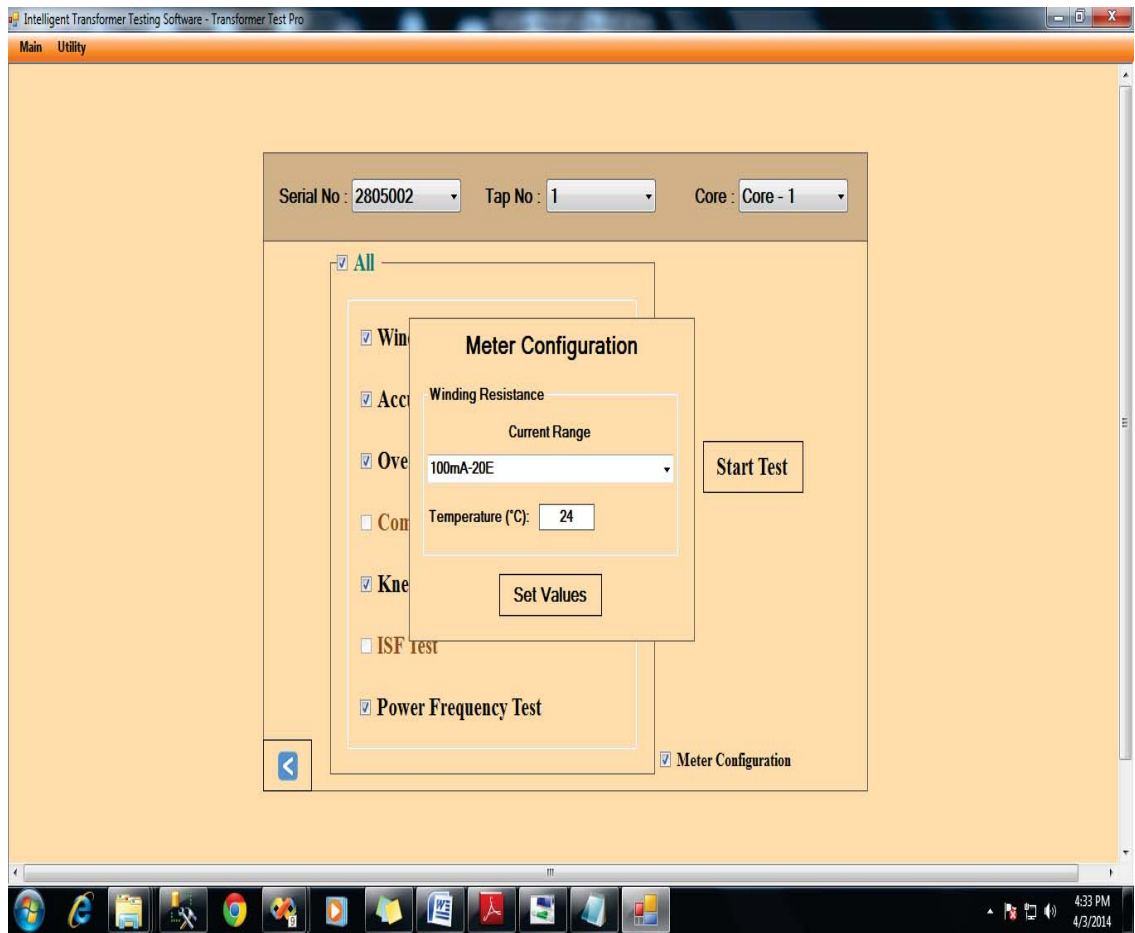
7) To conduct the test select all test or multiple test at a time, then press "Start Test" button.



The Disable tests are not allowed to be conduct on the basis of Accuracy Class.

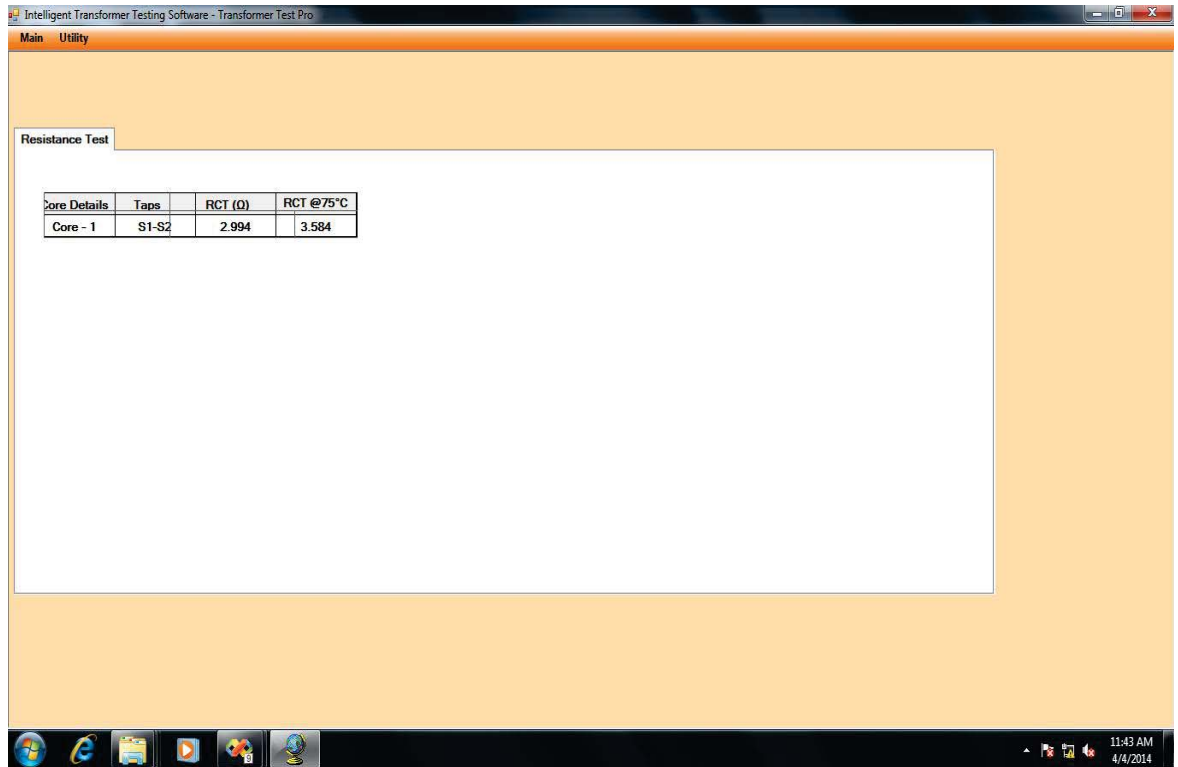
Test Name	Accuracy Class		
	Metering	Protection	PS
Winding Resistance Test	√	√	√
Accuracy Test	√	√	√
Over Voltage Inter Turn Test	√	√	√
Composite Error Test	×	√	×
Knee Point Voltage Test	×	×	√
ISF Test	√	×	×
Power Frequency Test	√	√	√

- 8) To change Current Range, checked meter configuration check box.



# Tests Pages:

## 1) Winding Resistance Test :



The screenshot shows a software window titled "Intelligent Transformer Testing Software - Transformer Test Pro". The window has a menu bar with "Main" and "Utility". The main content area is titled "Resistance Test" and contains a table with the following data:

Core Details	Taps	RCT (Ω)	RCT @75°C
Core - 1	S1-S2	2.994	3.584

The Windows taskbar at the bottom shows the time as 11:43 AM on 4/4/2014. A large watermark "PROLIFIC SYSTEMS" is visible diagonally across the page.

## 2) Accuracy & Polarity Test :

The screenshot displays the 'Accuracy Test' results within the 'Intelligent Transformer Testing Software - Transformer Test Pro' application. The interface includes a menu bar with 'Main' and 'Utility' options. The test results are presented in a table with columns for 'Primary Current (%)', 'Ratio Error (%)', and 'Phase Error (Min.)' under two load conditions: 'Rated Burden' and '1/4 of Rated Burden'. A green 'Polarity OK' button is visible to the right of the table. A system tray notification for McAfee VirusScan Enterprise is also present at the bottom right of the window.

Primary Current (%)	Rated Burden		1/4 of Rated Burden	
	Ratio Error (%)	Phase Error (Min.)	Ratio Error (%)	Phase Error (Min.)
120	-0.54	4	-0.25	5
100	-0.57	3	-0.28	5
20	-0.82	10	-0.28	9
5	-1.20	20		

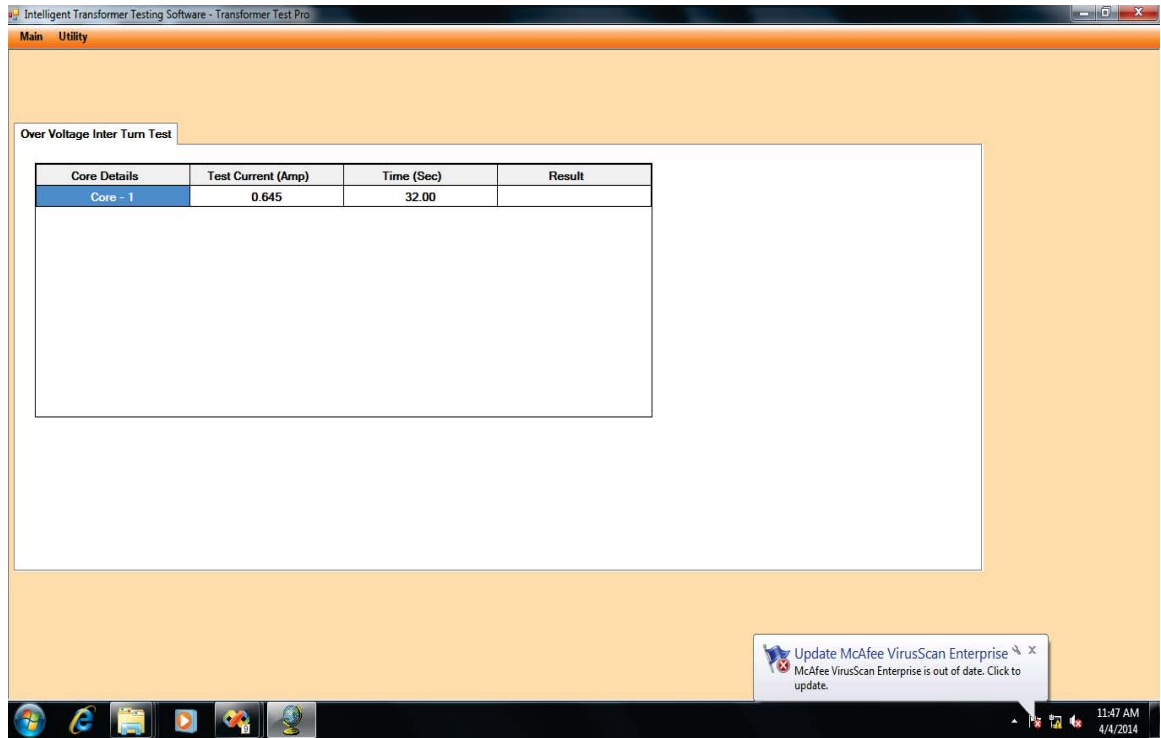
Polarity OK

Update McAfee VirusScan Enterprise  
McAfee VirusScan Enterprise is out of date. Click to update.

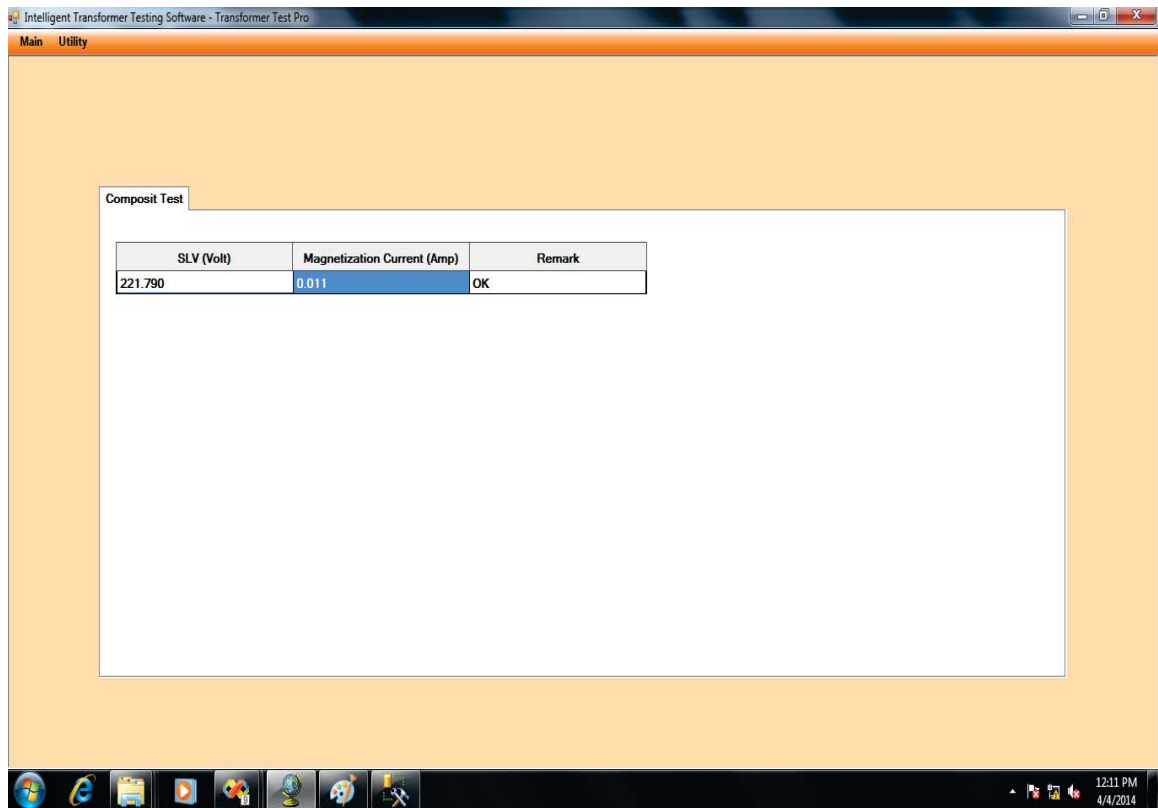
11:45 AM  
4/4/2014



### 3) Over Voltage Inter Turn Test :



#### 4) Composite Error Test :

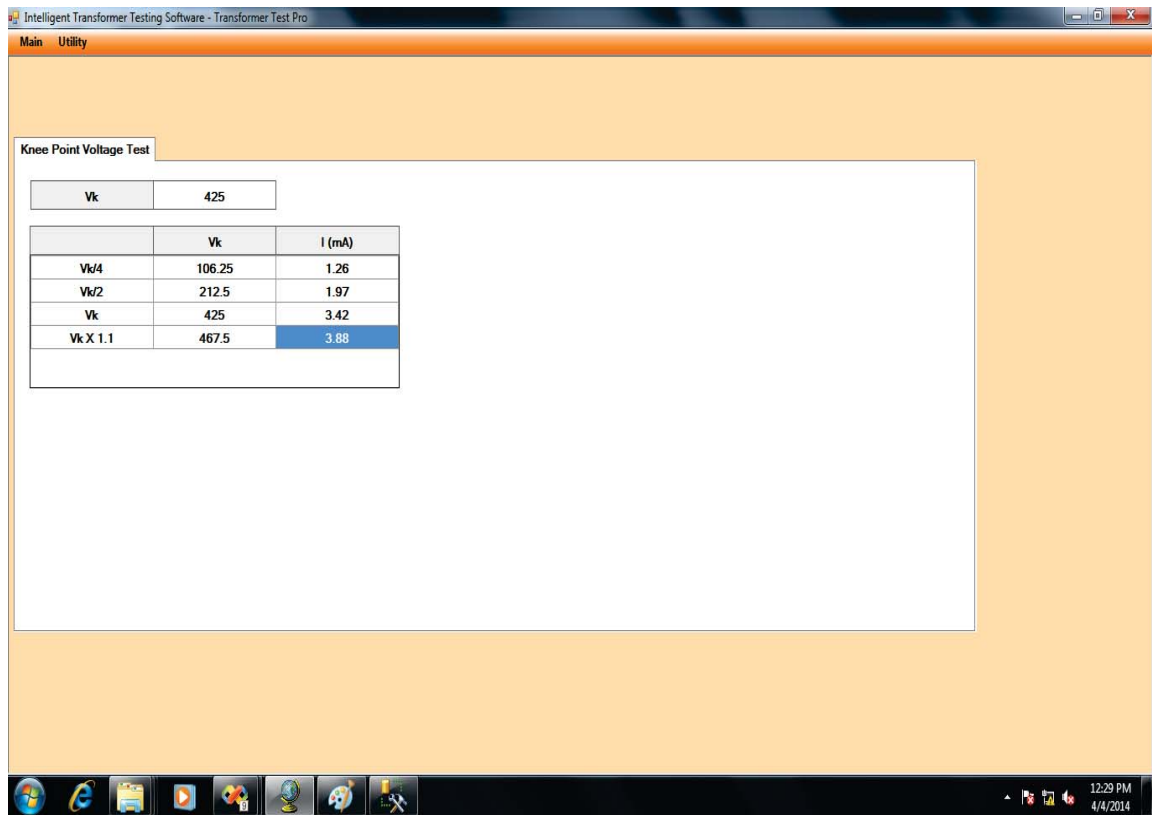


The screenshot displays the 'Intelligent Transformer Testing Software - Transformer Test Pro' window. The main area contains a 'Composit Test' table with the following data:

SLV (Volt)	Magnetization Current (Amp)	Remark
221.790	0.011	OK

The table is located within a white-bordered area on an orange background. The software window title bar shows 'Main Utility'. The Windows taskbar at the bottom includes icons for various applications and shows the system clock as 12:11 PM on 4/4/2014.

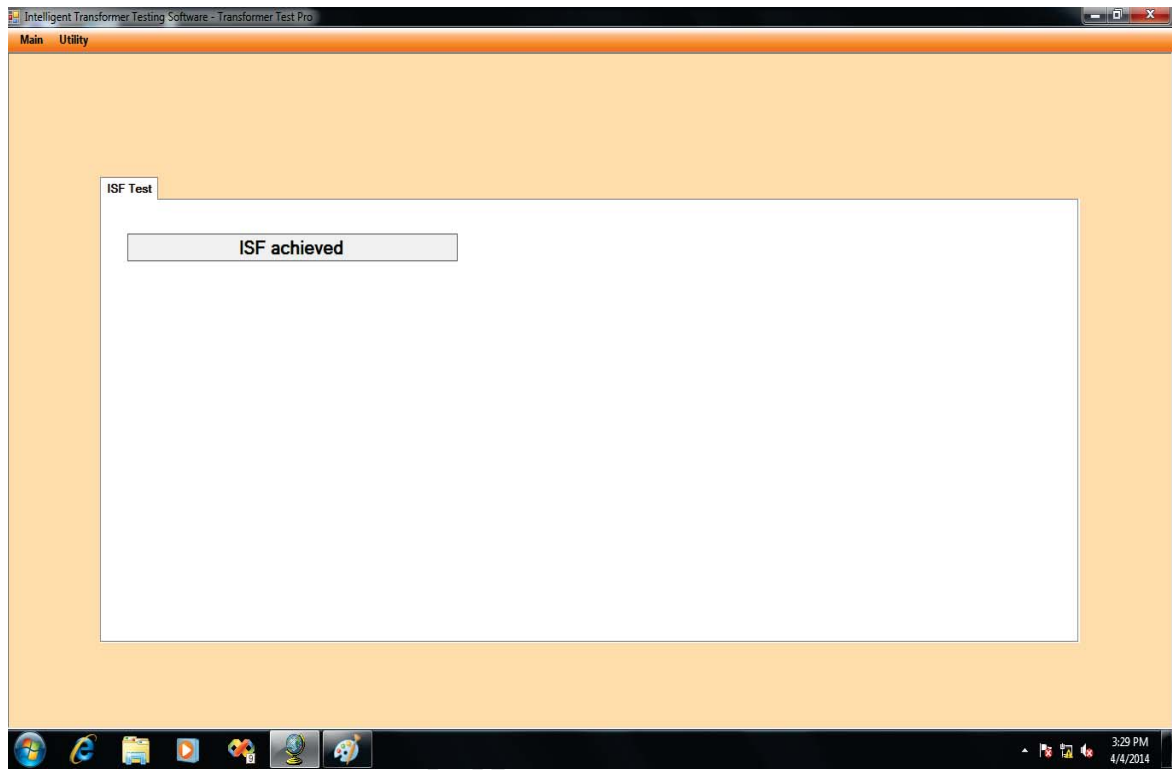
## 5) Knee Point Voltage Test :



The screenshot displays the 'Intelligent Transformer Testing Software - Transformer Test Pro' interface. The main window is titled 'Main Utility' and contains a 'Knee Point Voltage Test' section. This section includes a table with two columns: 'Vk' and 'I (mA)'. The table lists test results for various voltage levels, with the 'Vk X 1.1' row highlighted in blue.

Vk	I (mA)
Vk/4	1.26
Vk/2	1.97
Vk	3.42
Vk X 1.1	3.88

## 6) ISF Test :



## 7) Power Frequency Test :

