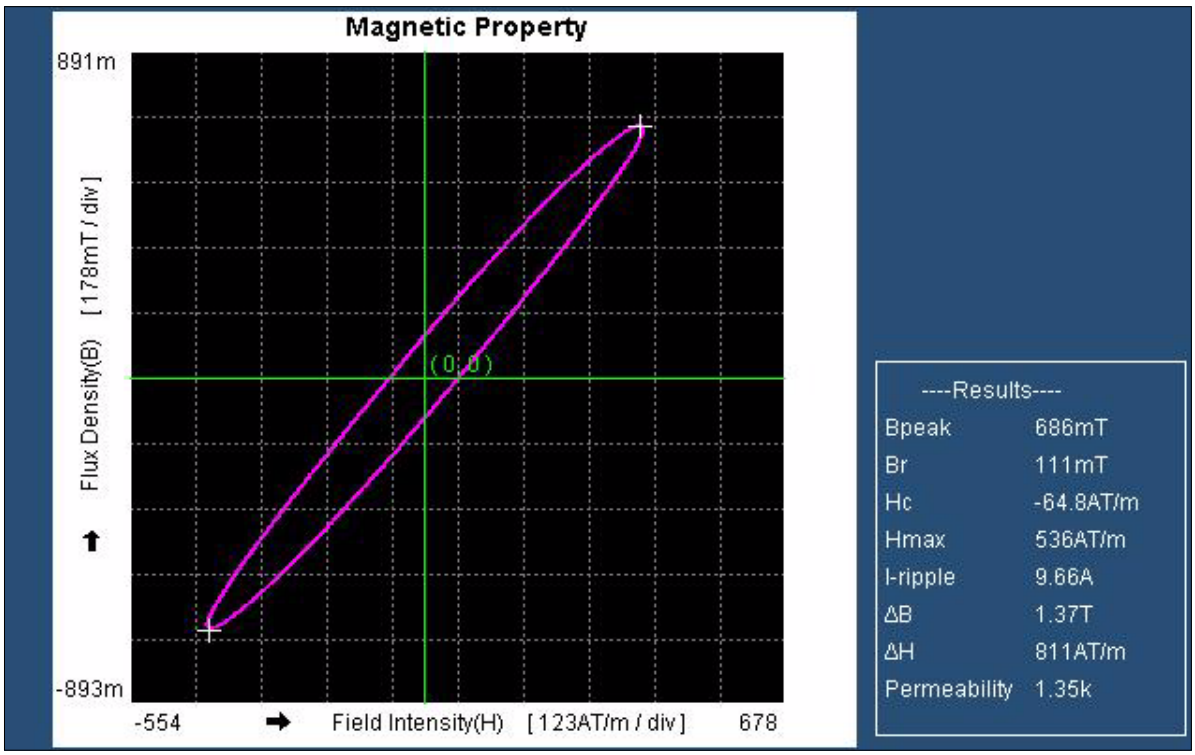
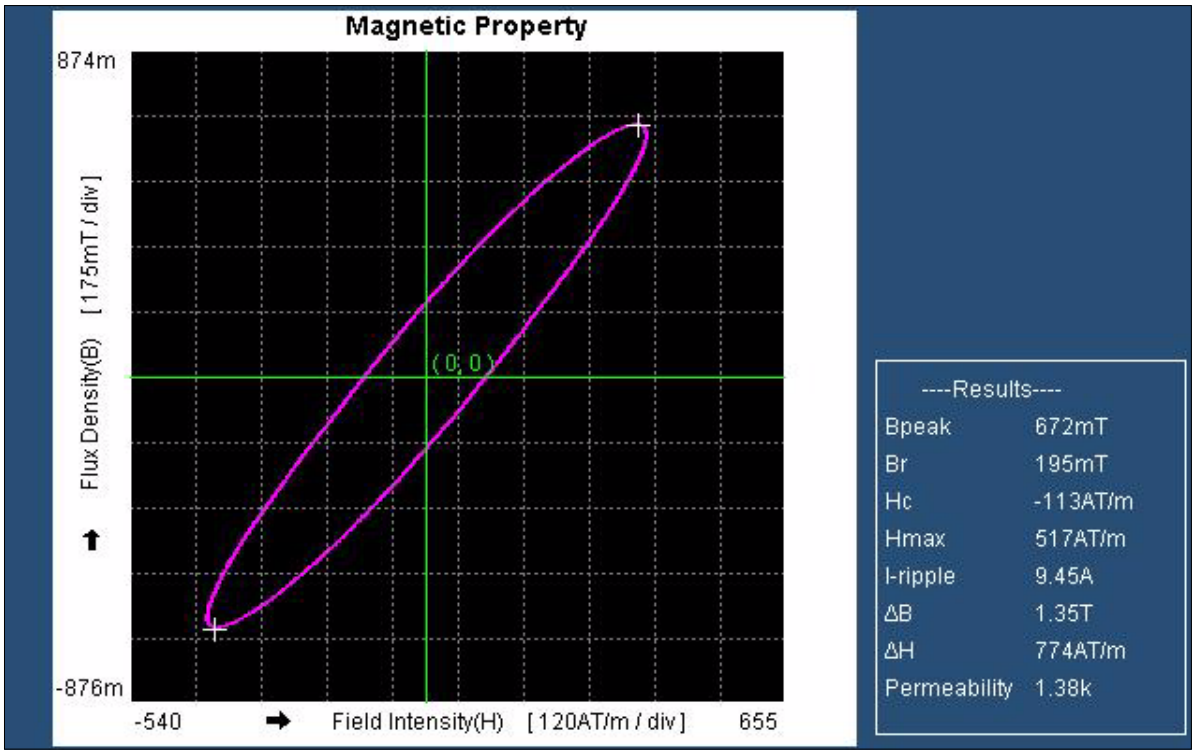


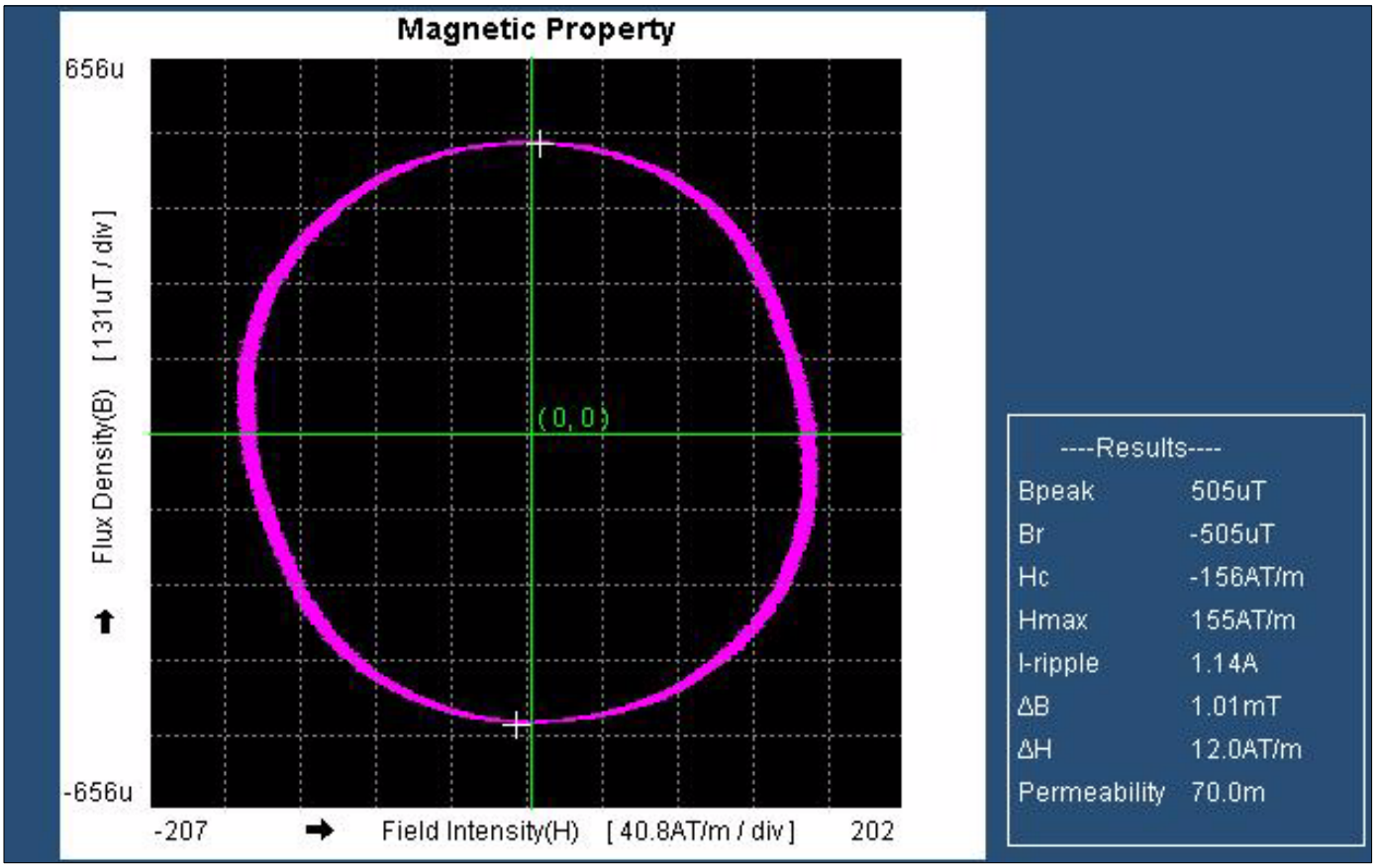
BH plot (dynamic) of UDT-A-03, 10V input, looking at primary only, NO LOAD

Notice the delta B is 1.37T, and mu is 1,350



BH plot (dynamic) of UDT-A-03, 10V input, looking at primary only, 25 OHM LOAD on Sec

Notice the delta B is 1.35T, and mu is 1,380
Delta B as seen in the Primary core (center leg and it's flux paths to outer legs) has only dropped a very minor amount, while Primary mu has risen slightly!!!



BH plot (dynamic) of UDT-A-03, 10V input, looking at Secondary, 25 OHM LOAD

You can clearly see that Jensen's proposition is true. Normal transformer plots, will show this nearly circular secondary BH plot under load. BUT in normal condition of reciprocity, the primary will mirror this squashing of the narrow unloaded curve into a near circle.

AND in normal case the primary plot will reduce delta B and mu substantially when loaded.
There is evidence jensen's simple assertion that this form decouples reciprocity here.
Note the secondary BH plot indicates the B in the secondary low reluctance path is nearly zero; or it is at least 2 orders of magnitude lower than exists in the complete primary flux circuit under load.
This shows that the secondaries are in fact canceling each other's flux, before reflecting back against the primary flux!!!!
AND it shows that the two flux circuits are superposed, but not completely coupled!!! or at least only coupled in FWD direction of magnetizing flux, but not in reaction flux.

I wouldn't submit this in a paper as yet, until lots of other checks were done, but it is pretty stark evidence as is!

I have no way to access the raw data here to perform actual AUC calcs on the area inside the loops.
But the primary mu is slightly increasing on loading, which is totally contra to normal operation of a transformer. Normally unloaded mu is high, in the thousands, and loaded it drops to a few tens.

here primary mu stays high, while secondary path mu is BELOW 1. Does that mean it is diamagnetic???