## Measurement of EMI shielding effectiveness with near field probe for CNT

## SOON IL YEO <sup>1</sup> <sup>1</sup>ETRI, Korea, Republic of

Nowadays electronic equipments are operated in the near field zone mostly.

But there is scarce cosiderating about near field operation.

And CNT films are used to shield electromagnetic waves.

Therefore it is necessary to measure shielding effectiveness of such a film.

So, I propose to measure shielding effectiveness of CNT film in the near field zone.

There is ASTM method to measure shielding effectiveness of a thin film.

It is a standard method to measure some kinds of thin film. We can use this method to measure shielding effectiveness of CNT film also.

But, to measure shielding effectiveness using ASTM method, the sample is need to be fabricated 14 cm diameter. It is difficult to fabricate CNT with 14 cm diameter. It is inconvenient to prepare those sample.

Therefore it is necessary the method for small size less than 14 cm.

We can use near field probe to measure EMI shielding effectiveness of CNT film using the sample of under 10 cm diameter.

Actually, near field probe acts on the near field scanner or on the apparatus to measure EMI shielding effectiveness.