

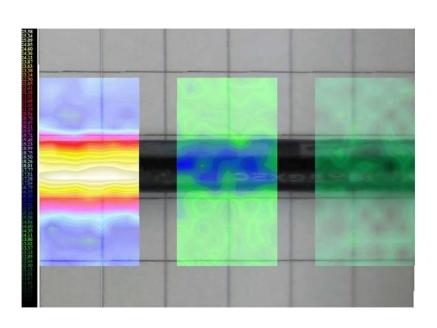


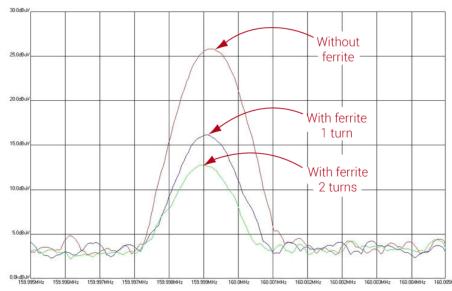
The secret life of shielded boxes

Shielding and practical measurements

Jan Eriksson, Detectus AB (on behalf of C.N. Rood)

Power cable 160MHz with and without ferrite (Würth 74271221).







Cable, with and without ferrite





Measurement shielded box

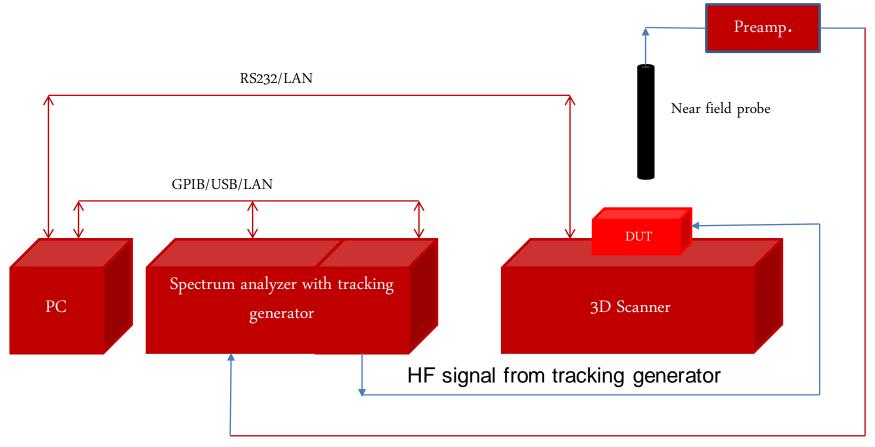




Equipment shielding measurements



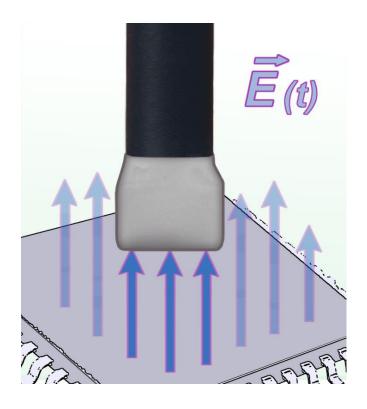
Measurement configuration



HF signal from probe



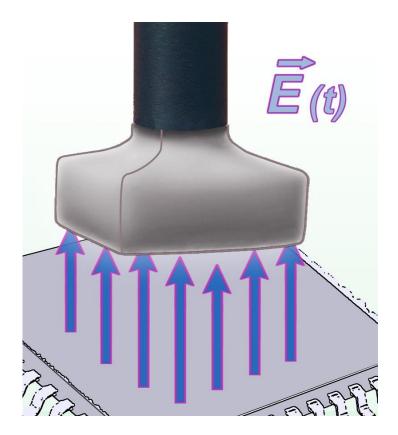
Transmitting probe XF-E 04s



Probe area 5 x 5 mm



Receiving probe XF-E 09s



Probe area 10 x 10 mm



5GHz E-field propagation from box

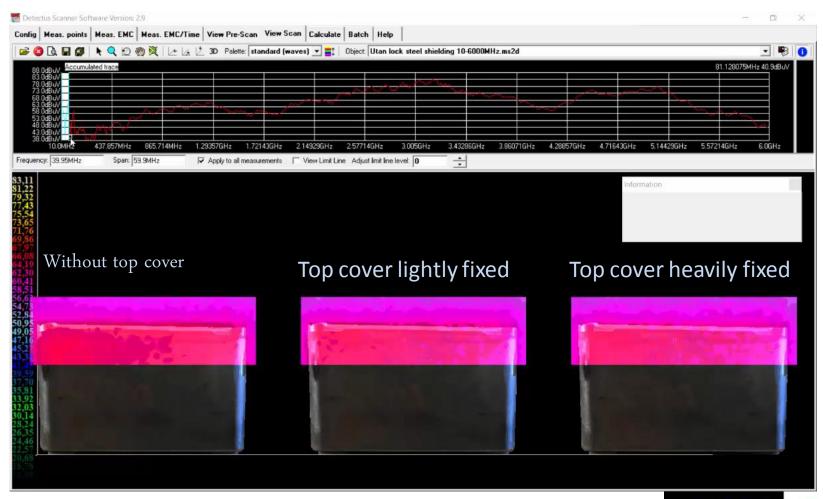




Length of gap mm	Attenuation (dB)		
	10 MHZ	100 MHZ	300 MHZ
150	40	20	10
15	60	40	30
5	70	50	40
1,5	80	60	50



Test of shielding efficiency



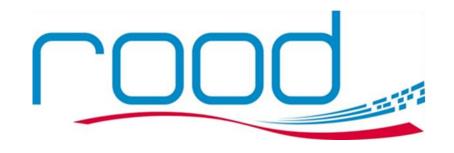
EMC-ESD Event 2019

Conclusion

Your EMC problem is not always solved if you use a shielded box.



Thank you for your attention!





For more information or demo please visit our booth and/or Demo Square.

