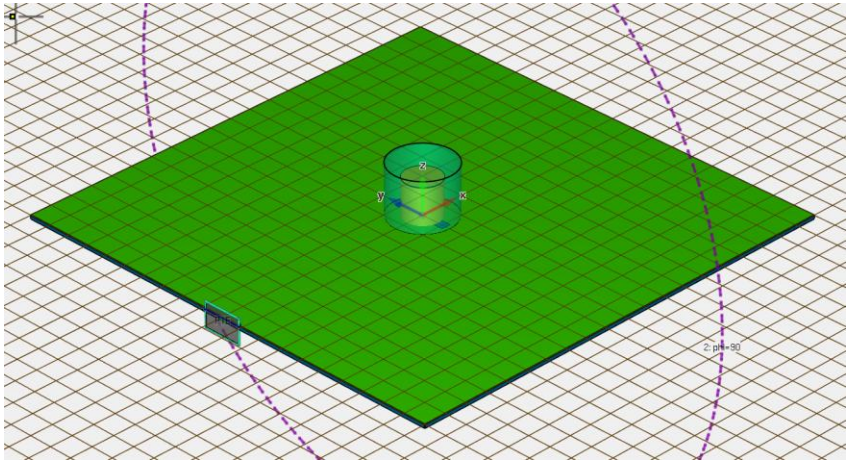
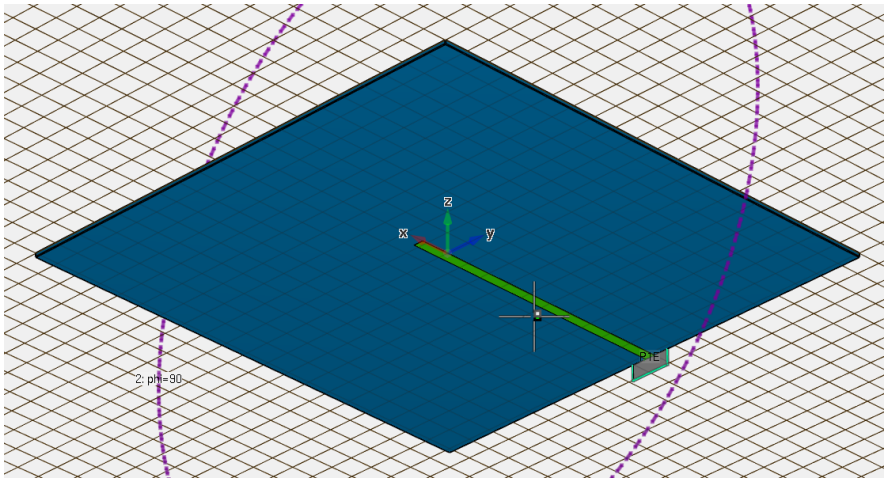
DRA Eucap contest

F. Ferrero

Small DRA over Teflon PCB

- Teflon PCB 100*100mm (er=2.55)
- DRA Cylinder with 2 permittivity (er=3 and er=7)
- Aperture coupling with a slot

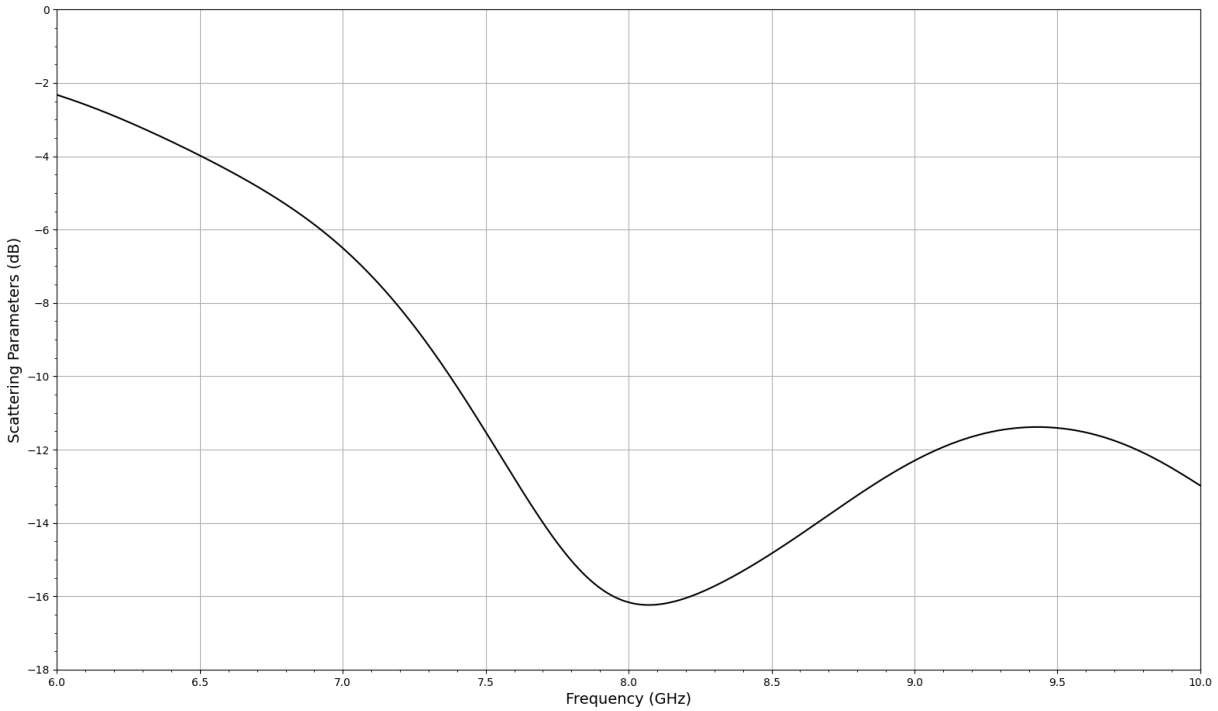




DRA_radius = 7mm
DRA_height = 11mm

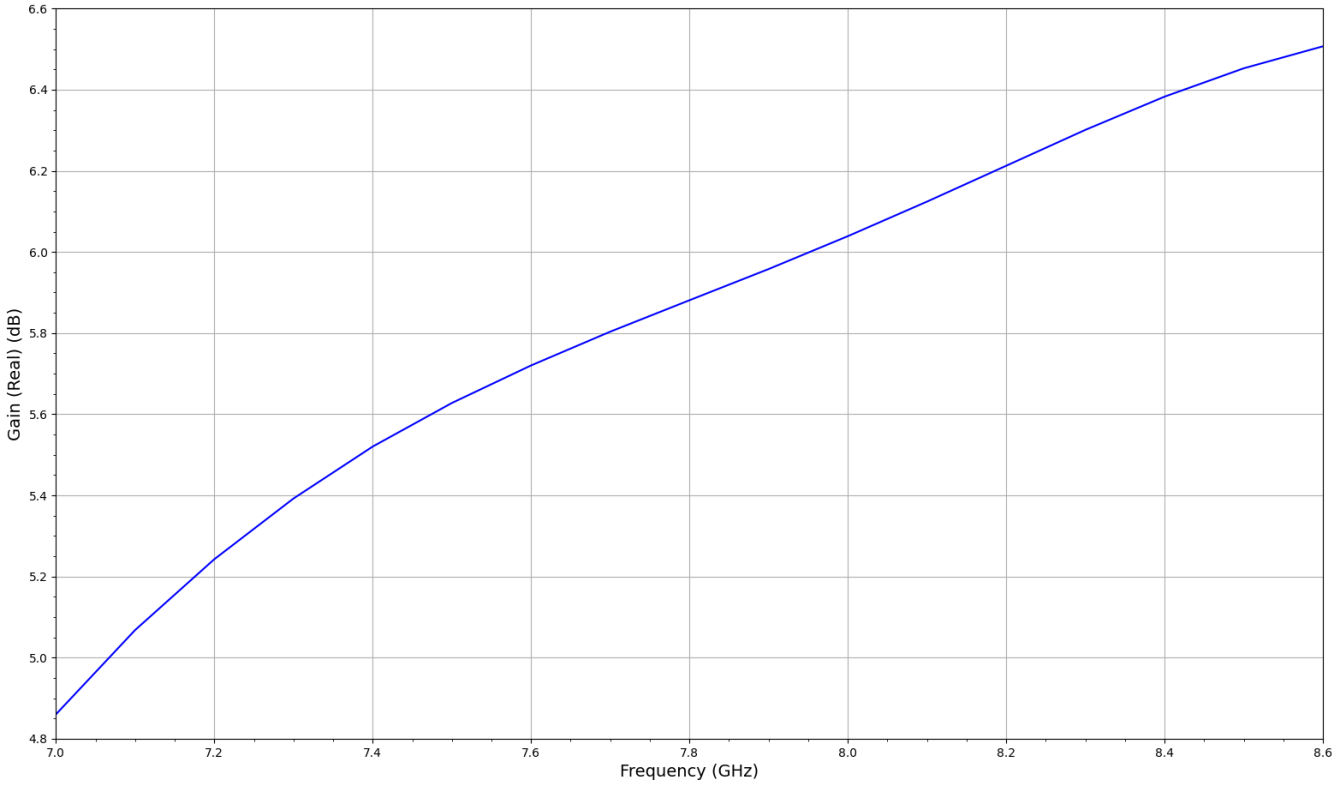
Small DRA over Teflon PCB

- Teflon PCB 100*100mm (er=2.55)
- DRA Cylinder with 2 permittivity (er=3 and er=6)
- Aperture coupling with a slot



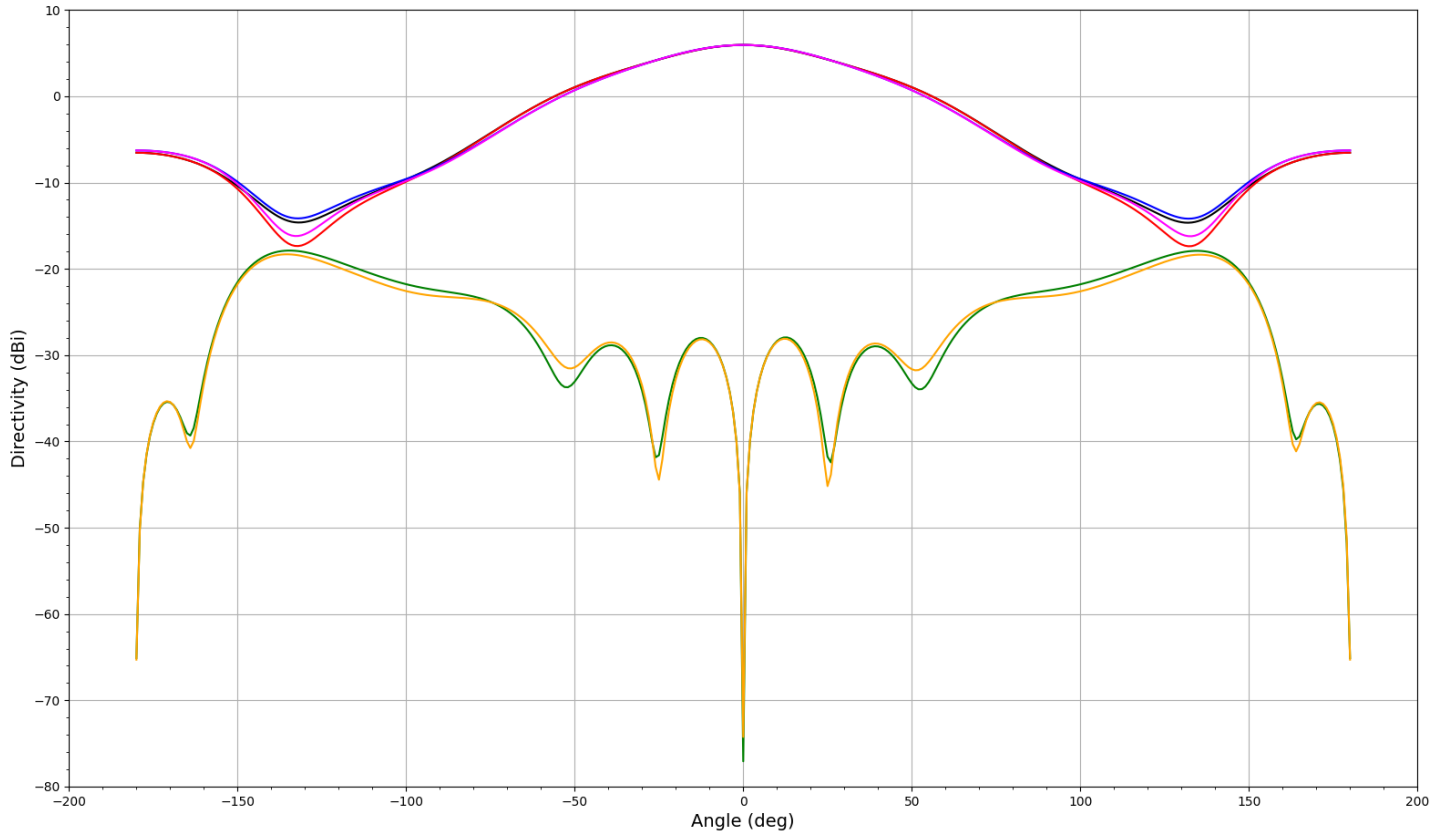
Small DRA over Teflon PCB

- Teflon PCB 100*100mm (er=2.55)
- DRA Cylinder with 2 permittivity (er=3 and er=6)
- Aperture coupling with a slot

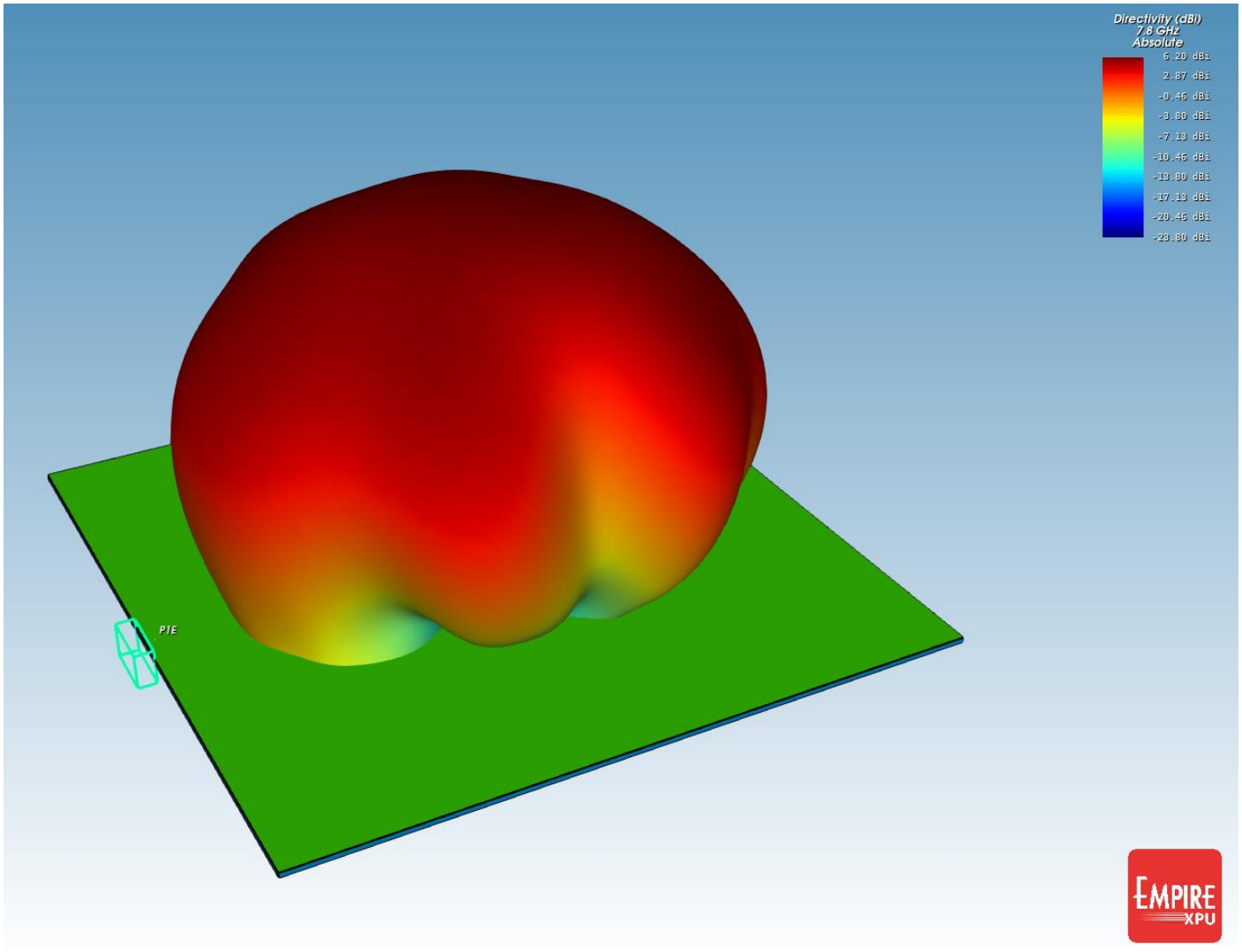


Small DRA over Teflon PCB

- Teflon PCB 100*100mm (er=2.55)
- DRA Cylinder with 2 permittivity (er=3 and er=6)
- Aperture coupling with a slot

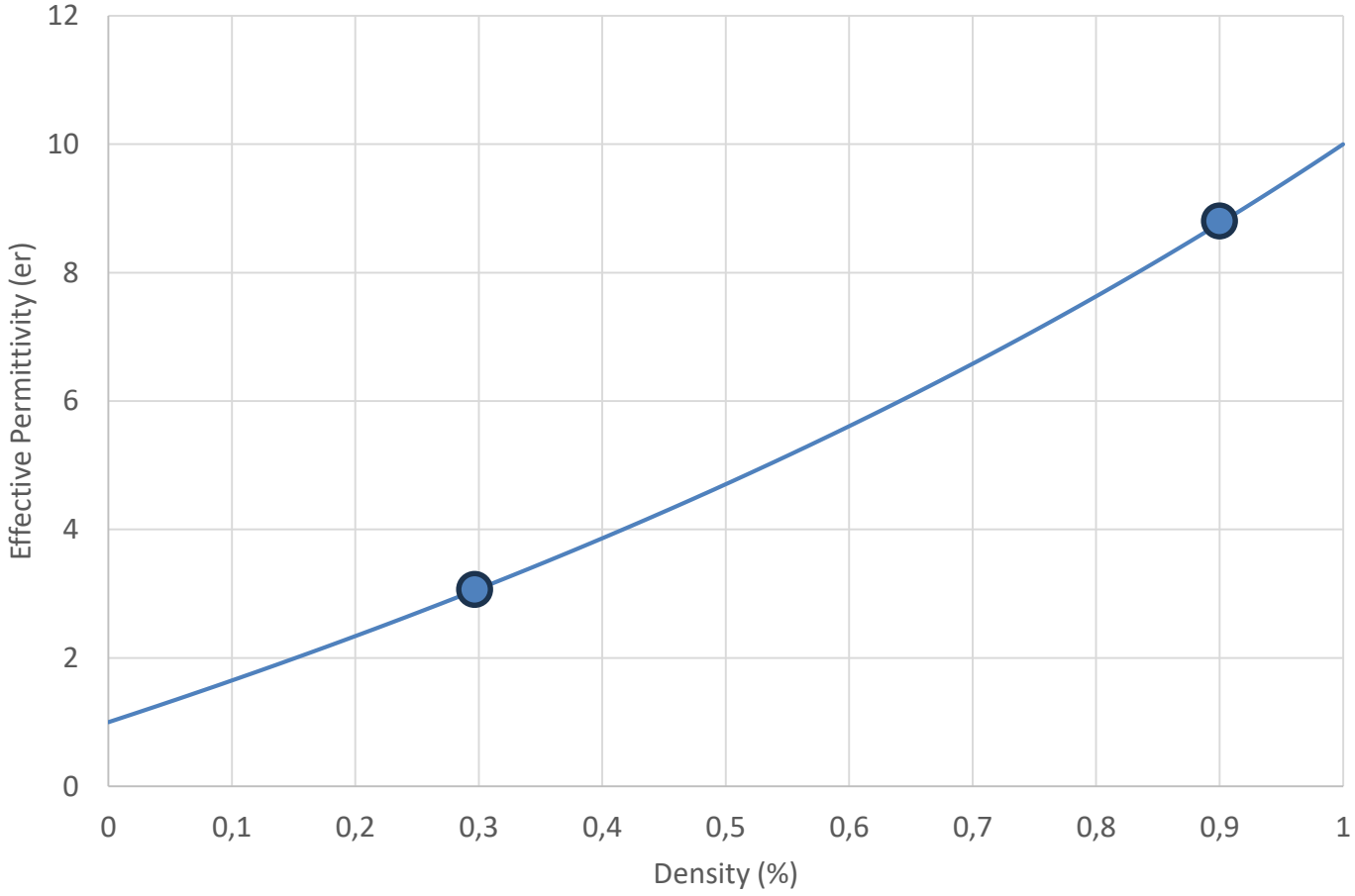


Small DRA over Teflon PCB



3D printing filament

Density vs relative permittivity for Epsilon 10 Nanoe filamenet



Contest

- Performance score :
- Computed by averaging the Gain on the 7 – 8.6GHz bandwith
- Avg_Gain = ((Gain(7GHz) + Gain(7.8GHz)+Gain(8.6GHz))/3)dB

- Limit : max 25x25x25 mm cubic Epsilon 10 : min = 3 & max = 9
- How many try during the event : 3 attempt
- DRA should be printed in one piece
- Multi-permittivity is possible with a limitation of 2.5*2.5*2.5mm for each zone.