

EtherDAS™
Omni-Directional In-Building Antenna
698-2700MHz

Electrical Specifications

Typical Characteristics

VSWR 698-960MHz 1710-2700MHz	≤ 1.5:1 ≤ 1.5:1
Typical Peak Gain 698-960MHz 1710-2700MHz	1dBi 6dBi
Polarization	Vertical
Low Band Beamwidth (typical) 698-960MHz	Horizontal: 360° Vertical : 80°
High Band Beamwidth (typical) 1710-2700MHz	Horizontal: 360° Vertical : 65°
Nominal Impedance	50Ω
Input Power, Max.	50 Watts
IM3 (2 tones of 43dBm) IM3 (2 tones of 43dBm)	≤ -153dBc in all bands ≤ -157dBc in all bands (4.1–9.5 Mini DIN-type)

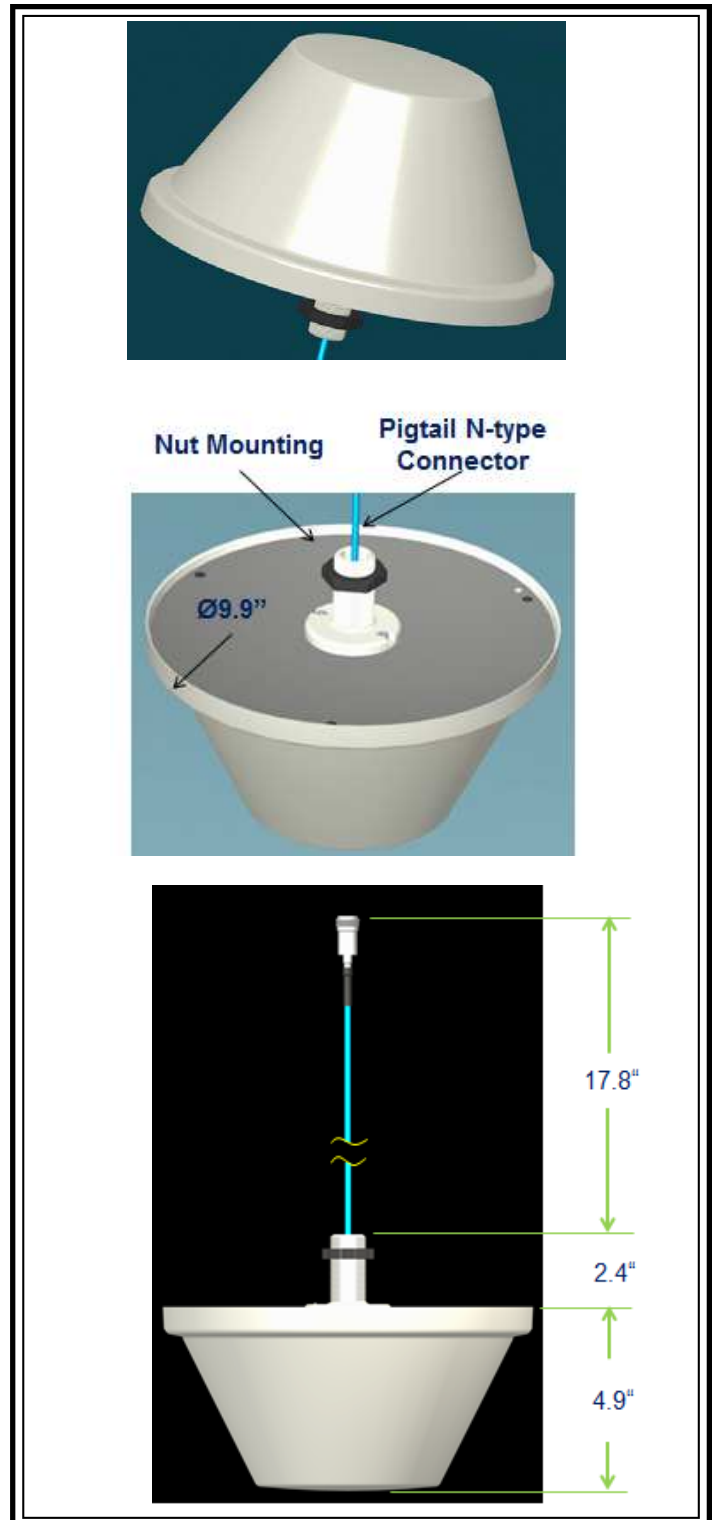
Mechanical Specifications

Typical Characteristics

Diameter	251.5mm (9.9")
Height	124.5mm (4.9") Stem : 60.96mm (2.4")
Connector	N Female
Mounting	Thru-hole ceiling mount Cable Length 452.12mm (17.8")
Net Weight	0.56Kg
Radome Color	White
Radome Material	ABS, UL94V-0 UV resistant

RoHS Compliant

Ethertronics' antennas comply with the European RoHS Directive 2002/95/EC.



MODEL#	DESCRIPTION
D104012H11	1.5 N-type wideband low PIM <-153dBc plastic stem mount Omni
D121016H11	1.5 Pigtail N-type wideband low PIM <-153dBc plastic stem mount Omni
D105015H11	1.5 4.1 - 9.5 Mini DIN-type wideband ultra-low PIM <-157dBc plastic stem mount Omni
D123025H11	1.5 Pigtail 4.1 - 9.5 Mini DIN-type wideband low PIM <-153dBc plastic stem mount Omni
D123026H12	1.5 Pigtail 4.1–9.5 Mini DIN-type wideband low PIM <-153dBc plastic stem mount Steered Omni

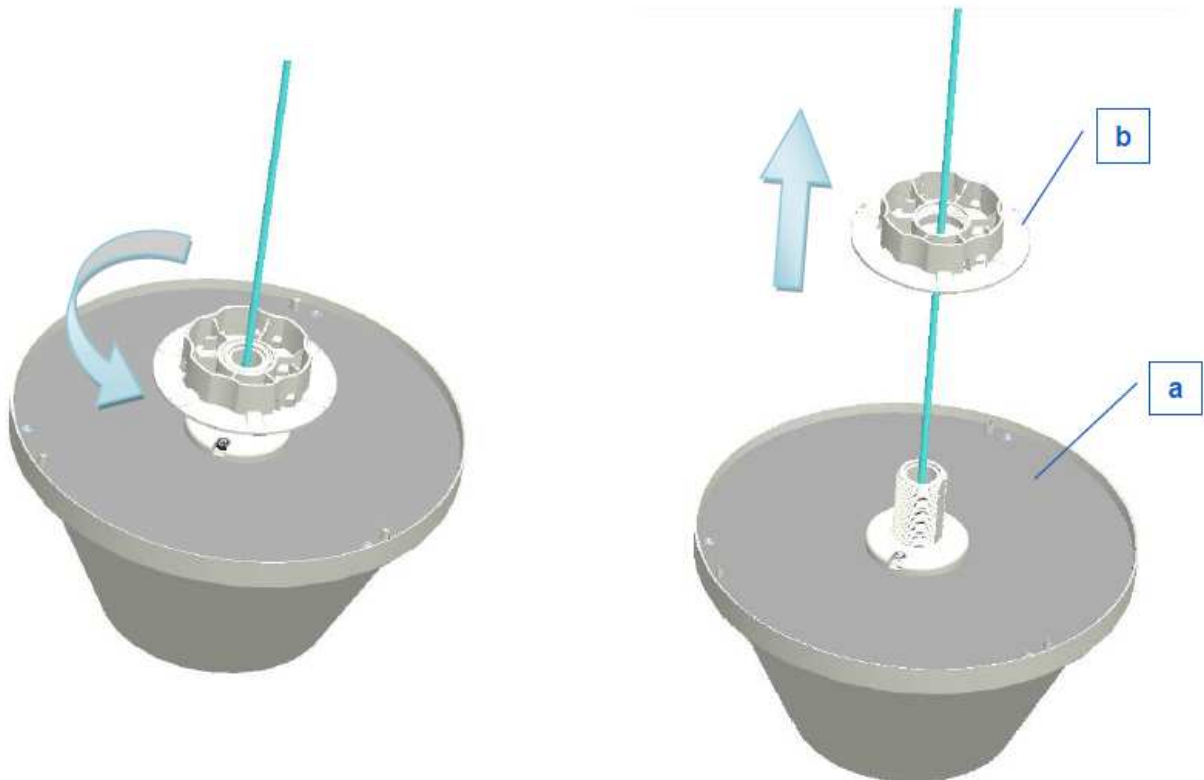
ETHERDAS 1.5 INDOOR ANTENNA

MATERIALS:

- (a) DAS Indoor Antenna.
- (b) Custom Nut.

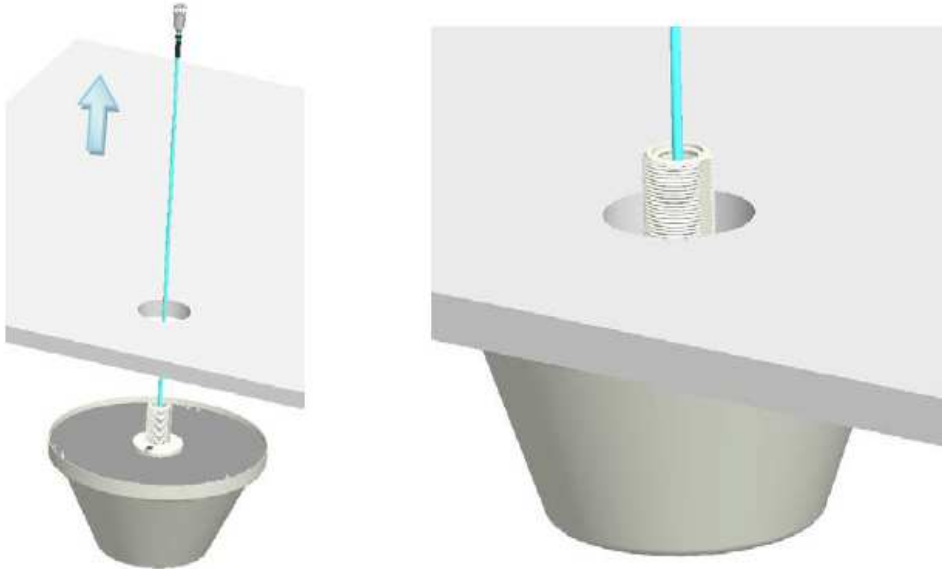
MOUNTING INSTRUCTIONS:

1. Cut hole in ceiling tile, recommended diameter is 2 $\frac{3}{8}$ ".
2. Remove Custom Nut from the Antenna's threaded stem.

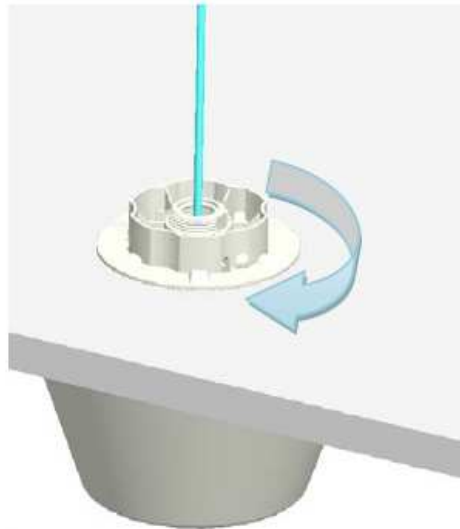


ETHERDAS 1.5 INDOOR ANTENNA

3. Pass cable and thread stem through ceiling tile hole.



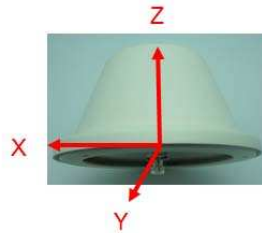
4. Screw the nut onto the threaded stem until tight.



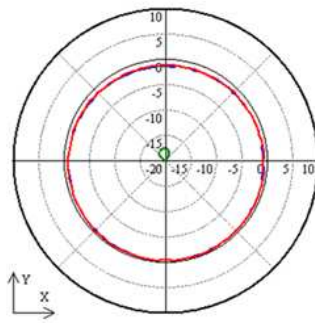
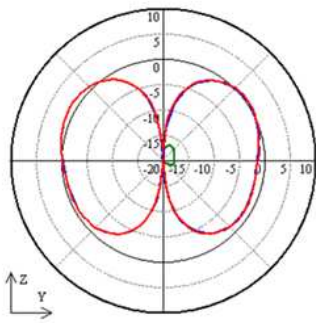
5. Remove the cap on the N-Type connector and connect cables.

Measured Radiation Patterns in Low Band 698-960MHz.

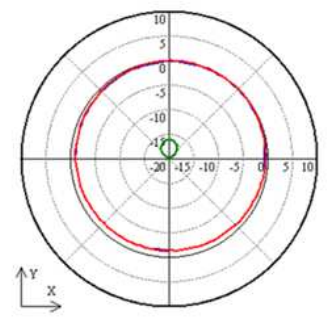
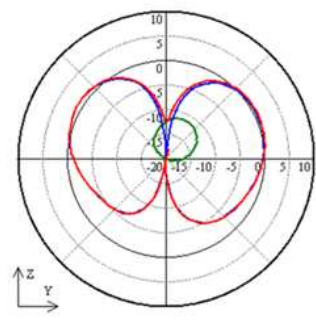
Frequency in MHz



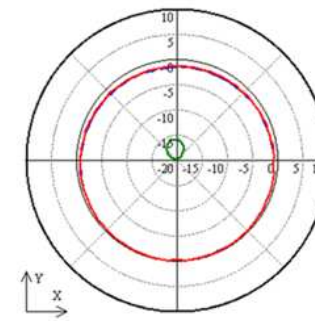
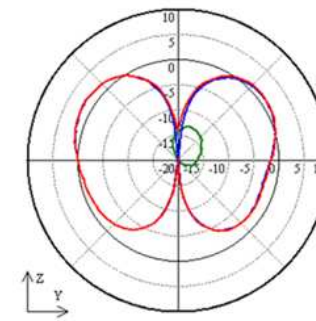
700MHz



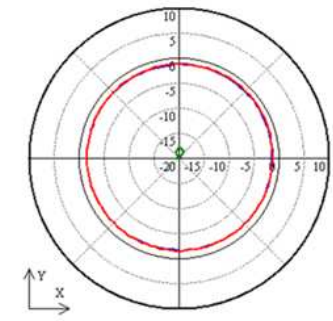
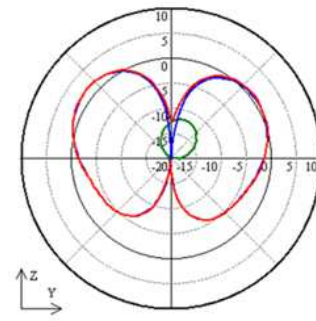
900MHz



800MHz

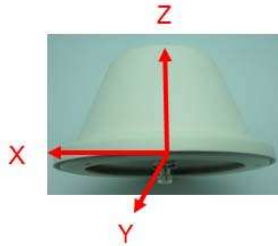


960MHz



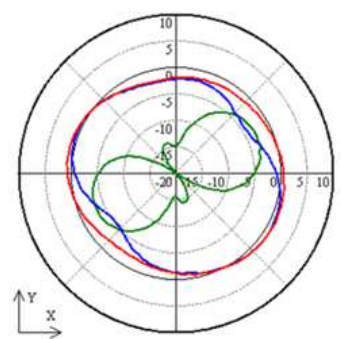
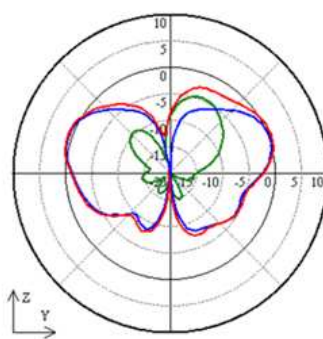
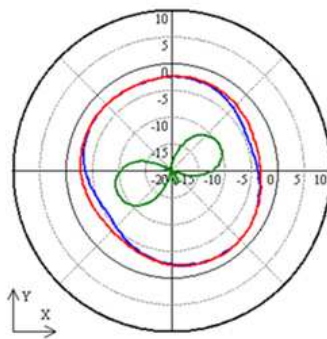
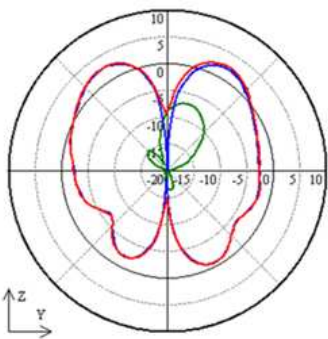
Measured Radiation Patterns in Low Band 1710-2700MHz.

Frequency in MHz



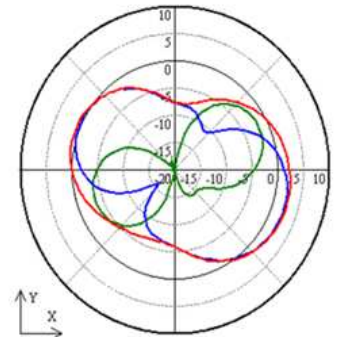
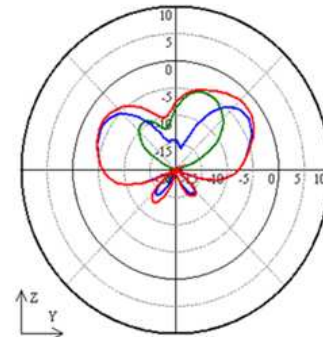
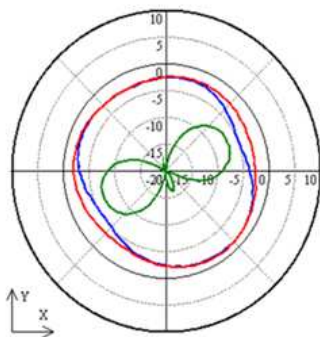
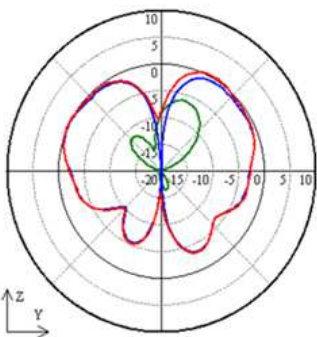
1710MHz

2100MHz



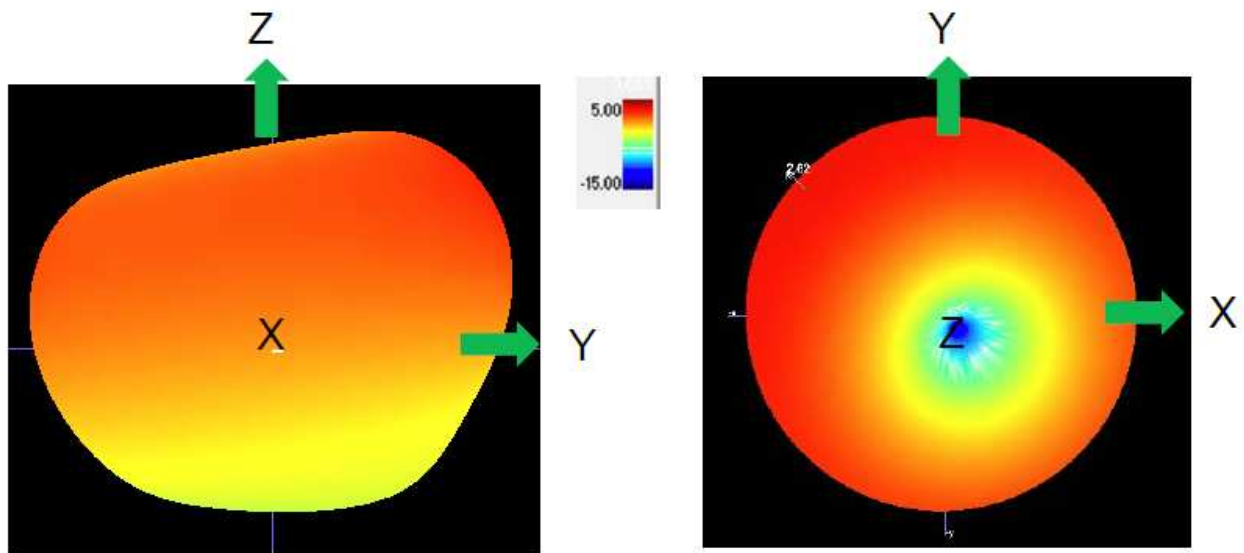
1900MHz

2500MHz



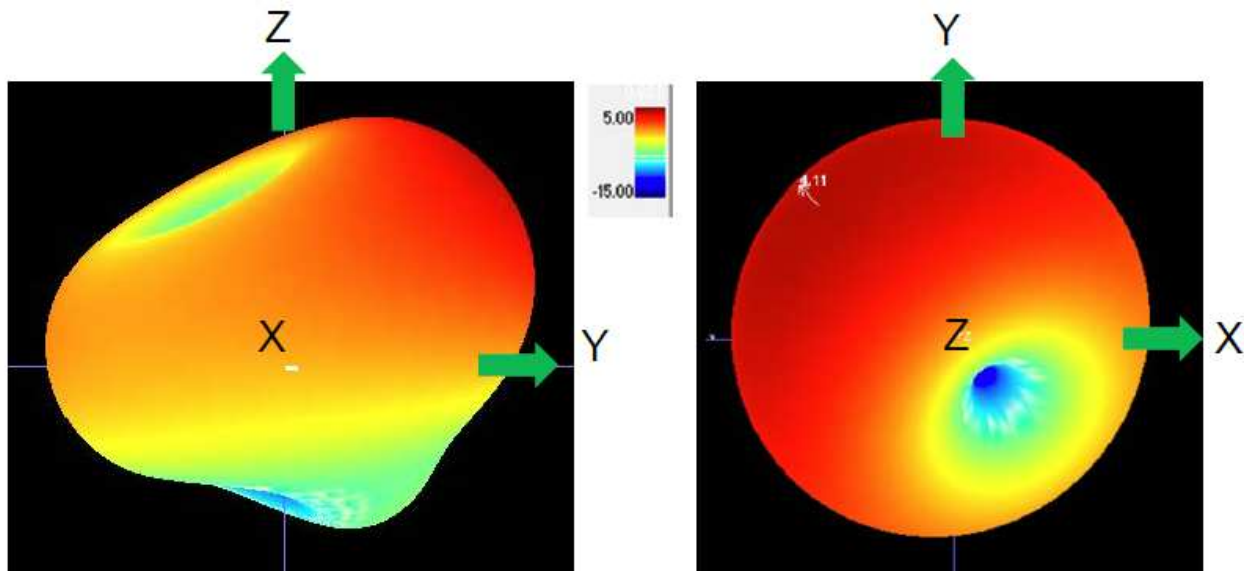
Measured 3D Radiation Pattern at 700MHz.

Frequency in MHZ



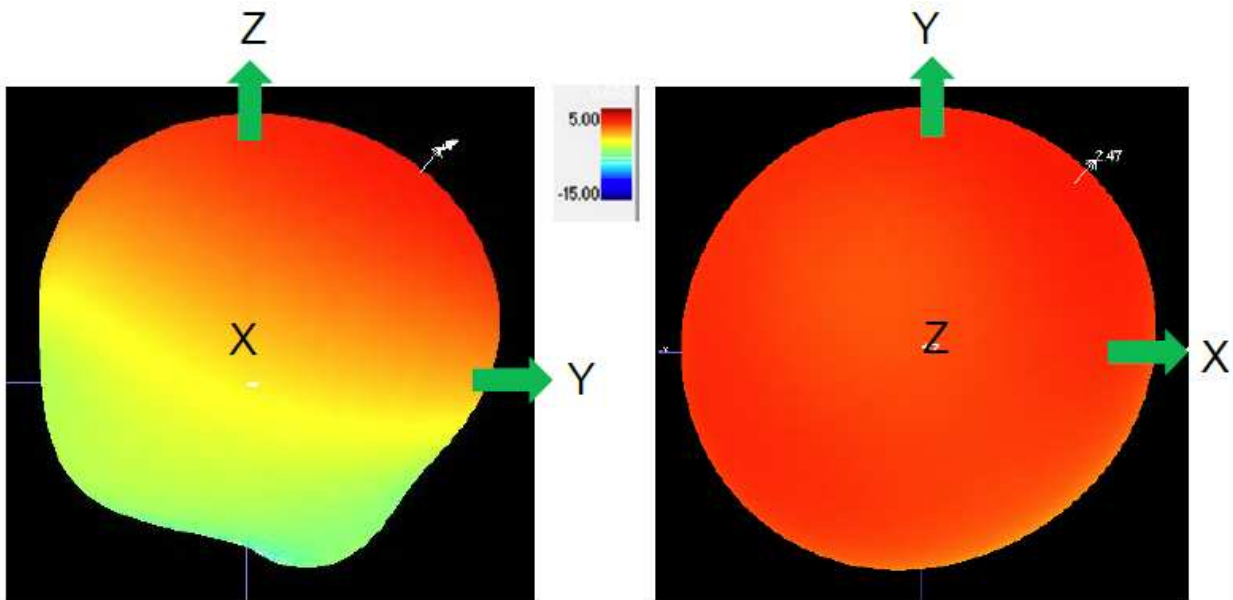
Measured 3D Radiation Pattern at 800MHz.

Frequency in MHZ



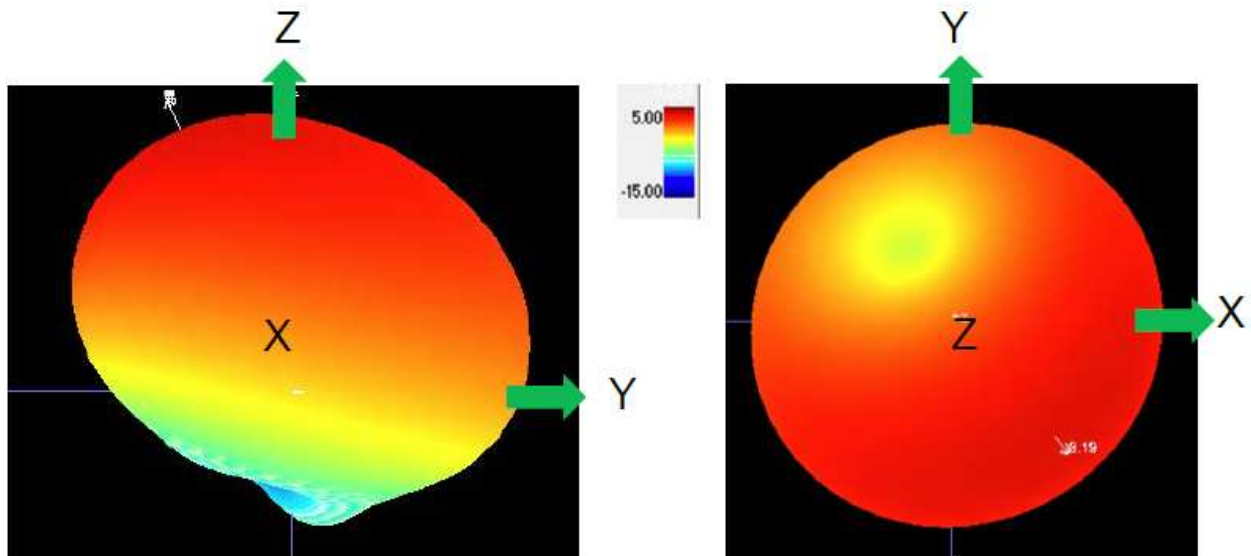
Measured 3D Radiation Pattern at 900MHz.

Frequency in MHz



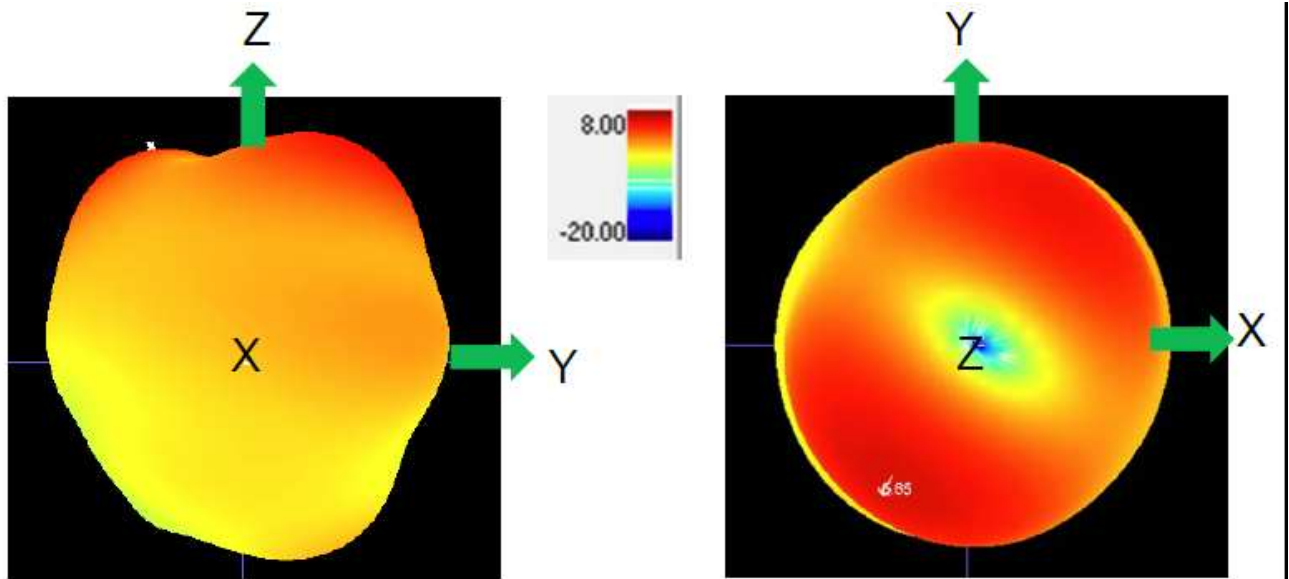
Measured 3D Radiation Pattern at 960MHz.

Frequency in MHz



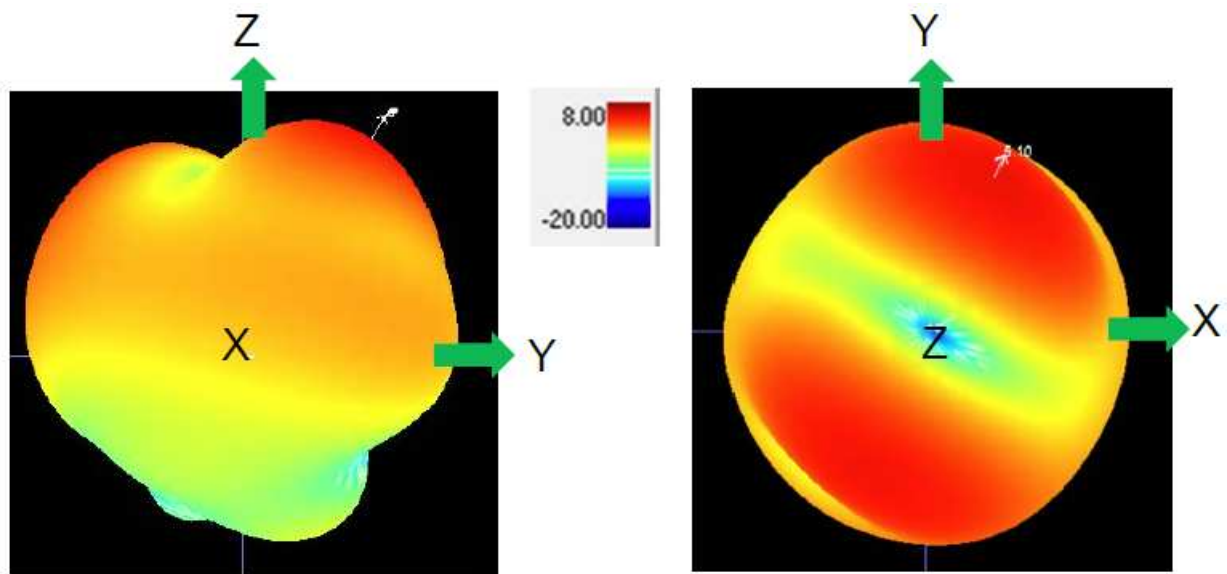
Measured 3D Radiation Pattern at 1710MHz.

Frequency in MHz



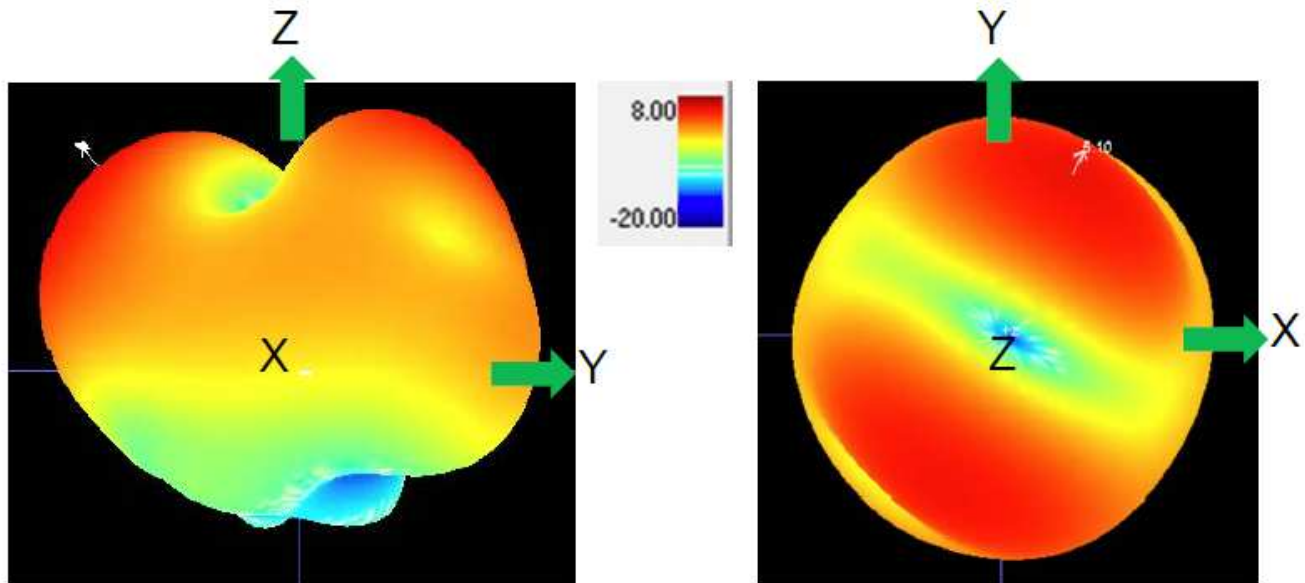
Measured 3D Radiation Pattern at 1900MHz.

Frequency in MHz



Measured 3D Radiation Pattern at 2100MHz.

Frequency in MHz



Measured 3D Radiation Pattern at 2500MHz.

Frequency in MHz

