



20 dBi Gain, 8.2-12.5 GHz, WR90 Standard Gain Horn with SMA Female Port

Rev 3

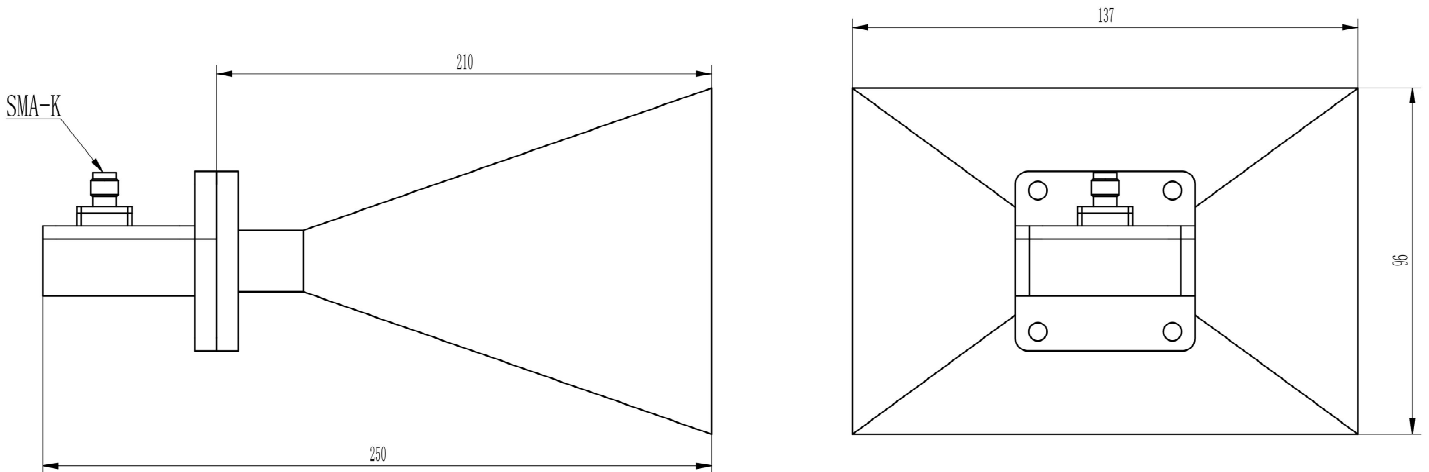
Electrical

Frequency Range	8.2-12.5 GHz
Norminal Gain	20 dBi
Polarization	Linear
VSWR	1.3 max
3dB Beamwidth	E-Plane: 13.5~19.2 deg, H-Plane: 12.8~19.9 deg
Operating Temperature	-40°C~+70°C

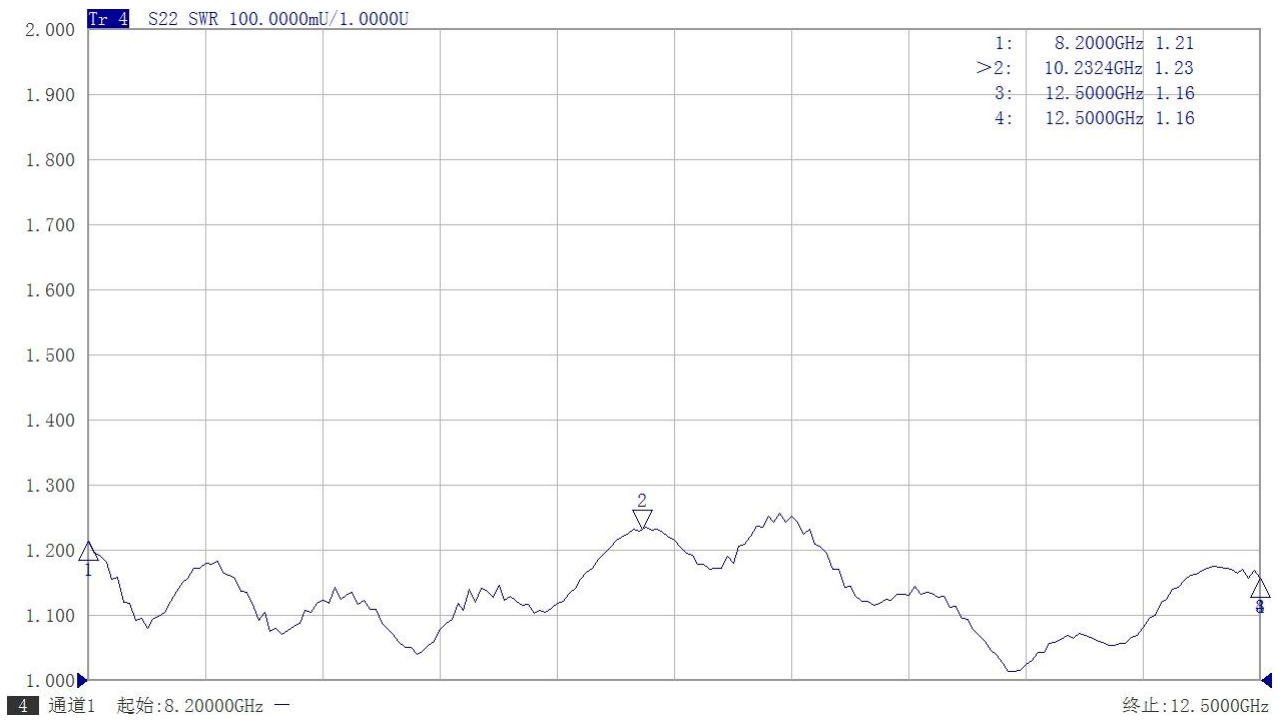
Mechanical

Waveguide Size	WR90
Flange Type	UBR100 Square Cover Flange
Body Material and Finish	Aluminum, Painted
RF Connector	SMA Female
Net Weight	390g

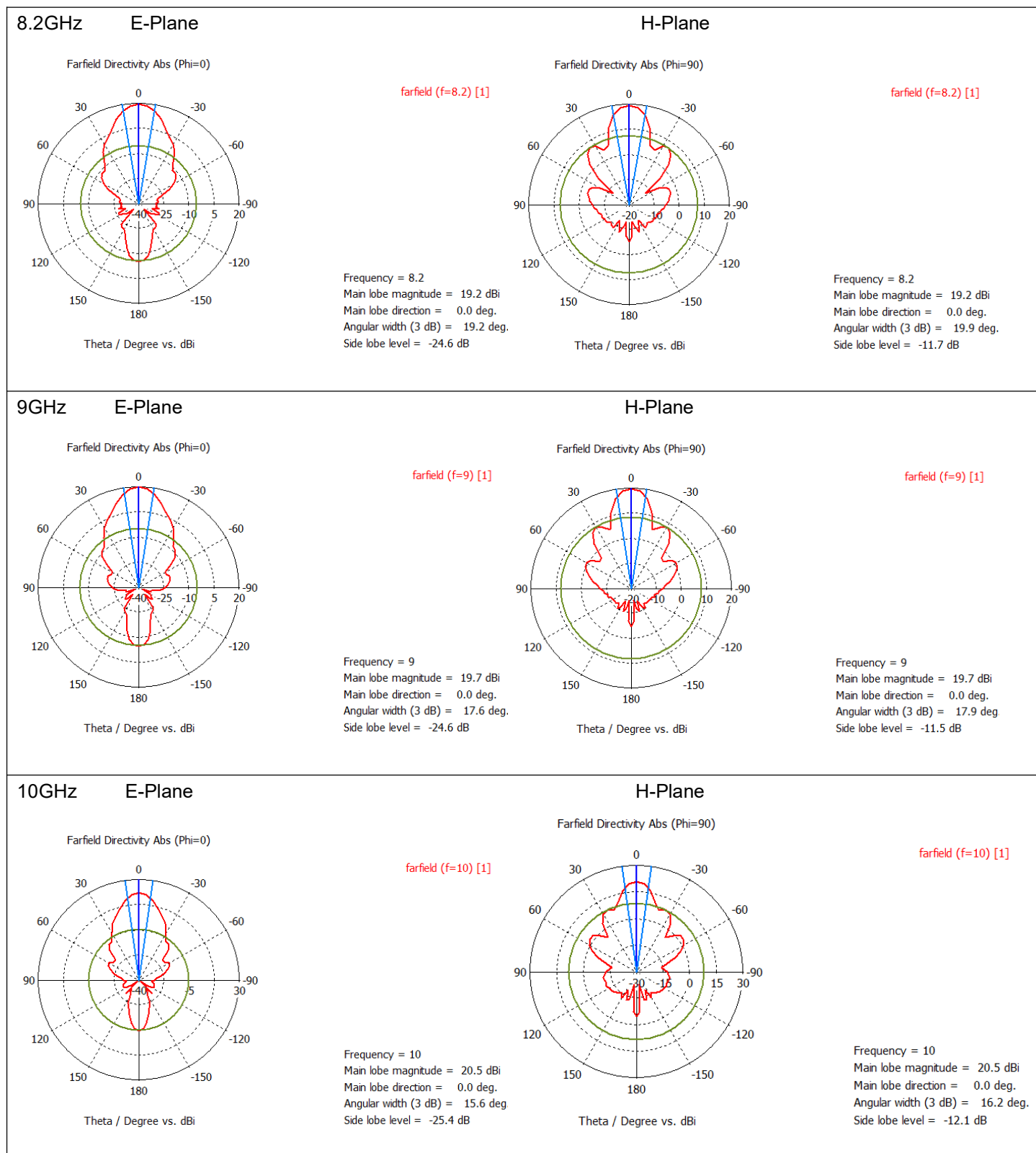
Dimensions(mm)



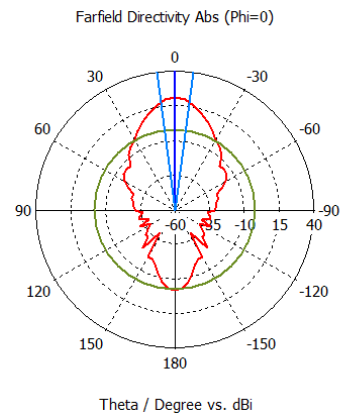
Typical Test Data



Simulated Antenna Patterns



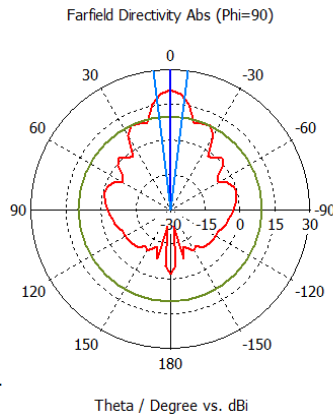
11GHz E-Plane



farfield (f=11) [1]

Frequency = 11
 Main lobe magnitude = 21.0 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 15.0 deg.
 Side lobe level = -23.2 dB

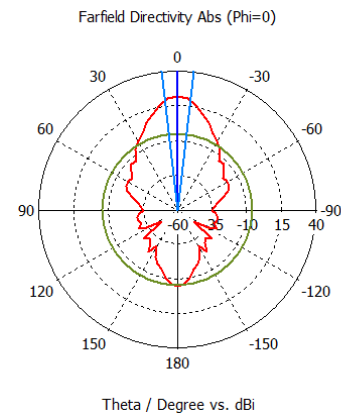
H-Plane



farfield (f=11) [1]

Frequency = 11
 Main lobe magnitude = 21.0 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 14.1 deg.
 Side lobe level = -11.3 dB

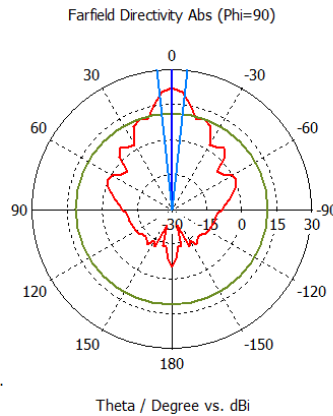
12.4GHz E-Plane



farfield (f=12.4) [1]

Frequency = 12.4
 Main lobe magnitude = 21.8 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 13.5 deg.
 Side lobe level = -27.3 dB

H-Plane

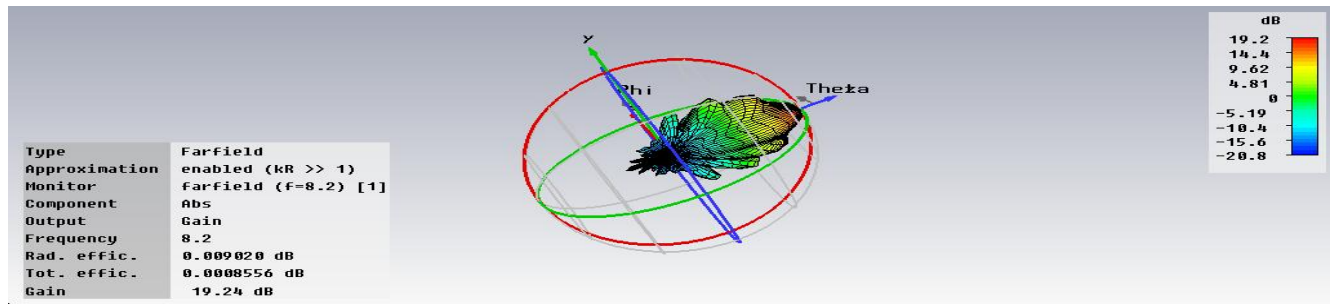


farfield (f=12.4) [1]

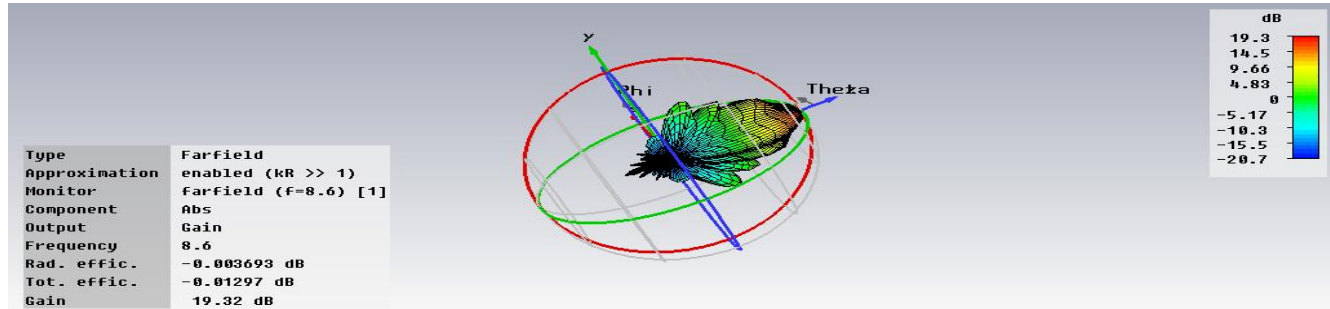
Frequency = 12.4
 Main lobe magnitude = 21.8 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 12.8 deg
 Side lobe level = -10.6 dB

Gain

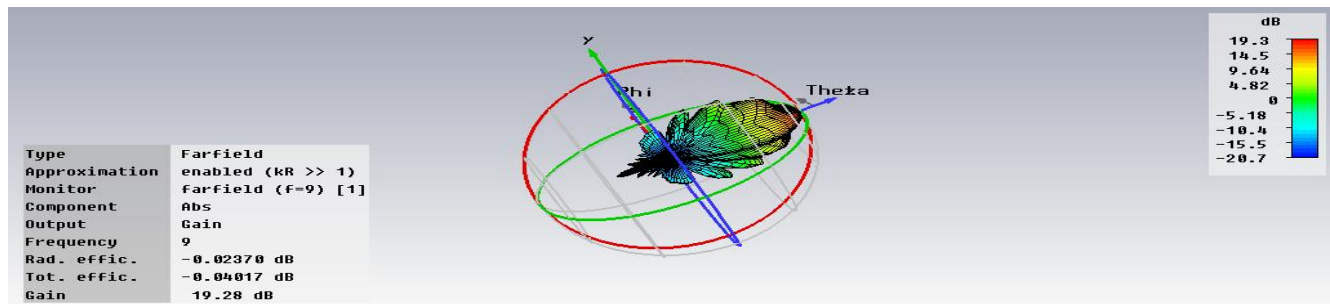
8.2GHz



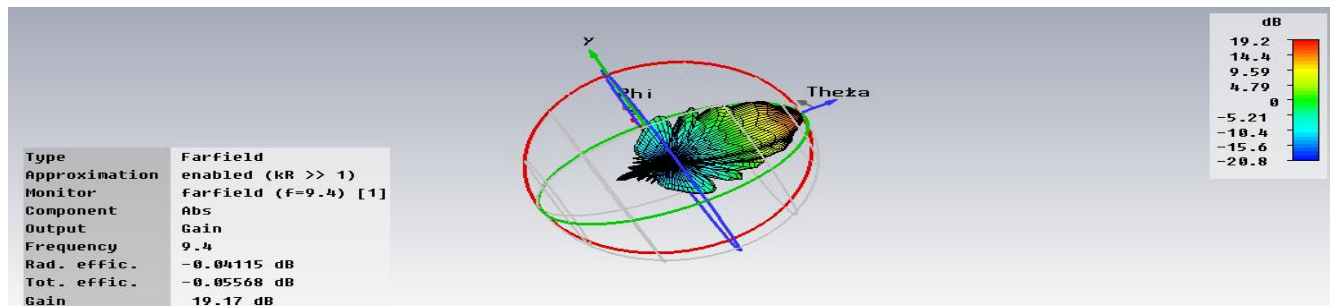
8.6GHz



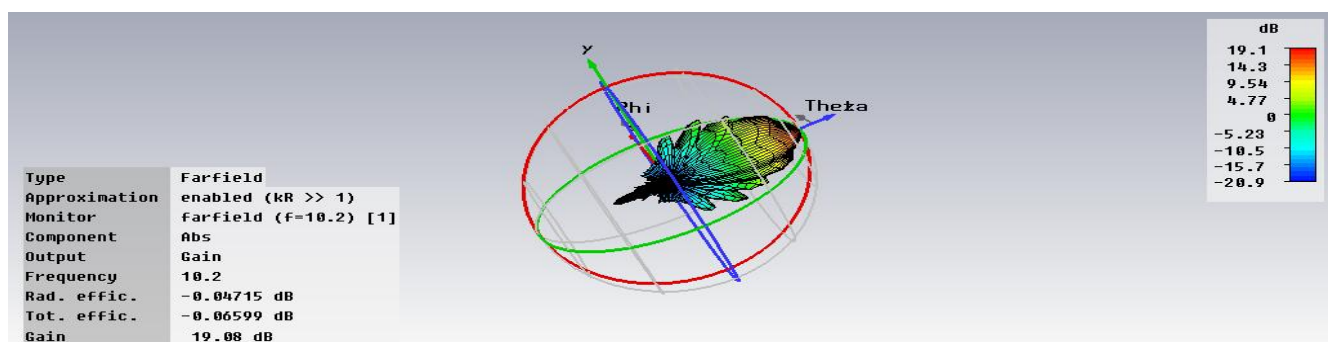
9GHz



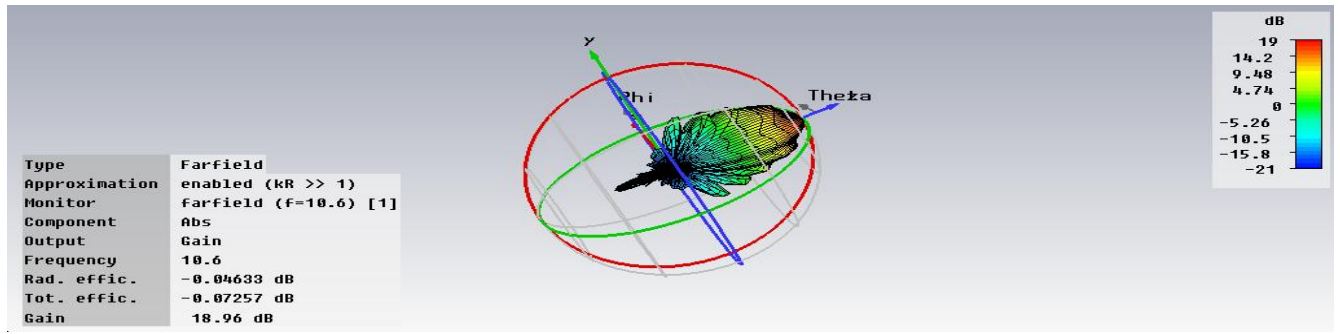
9.4GHz



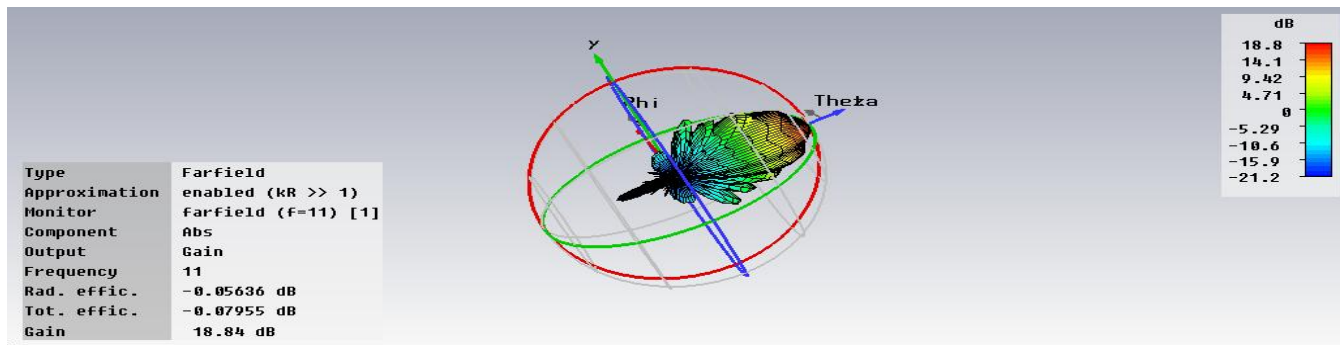
10.2GHz



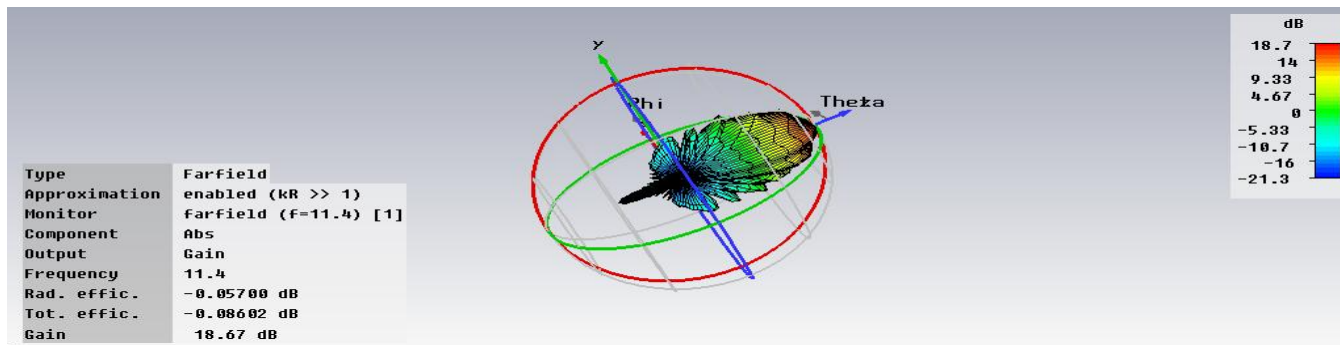
10.6GHz



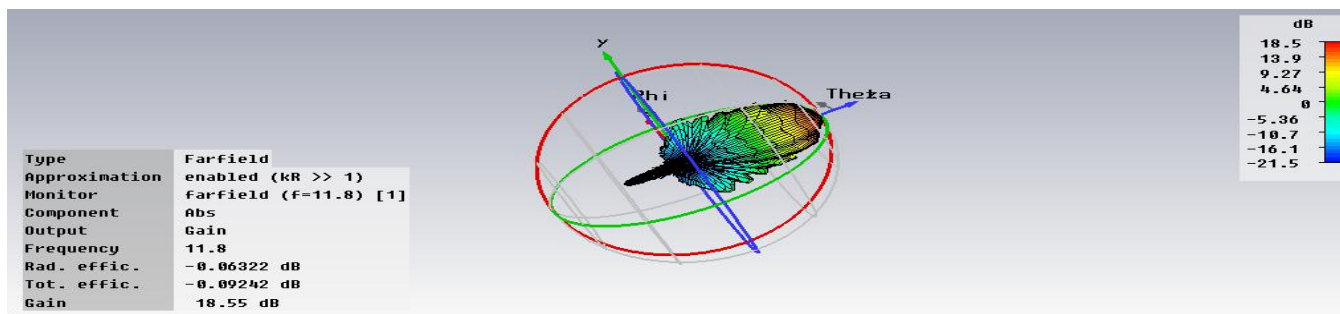
11GHz



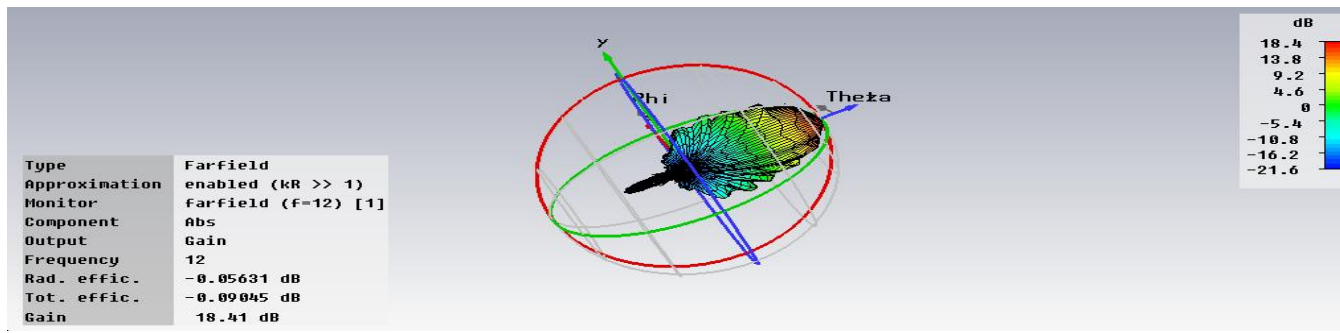
11.4GHz



11.8GHz



12GHz



12.4GHz

