

**20 dBi Gain, 8.2-12.5 GHz, WR90 Standard Gain Horn with UBR100**

**Flange**

Rev 2

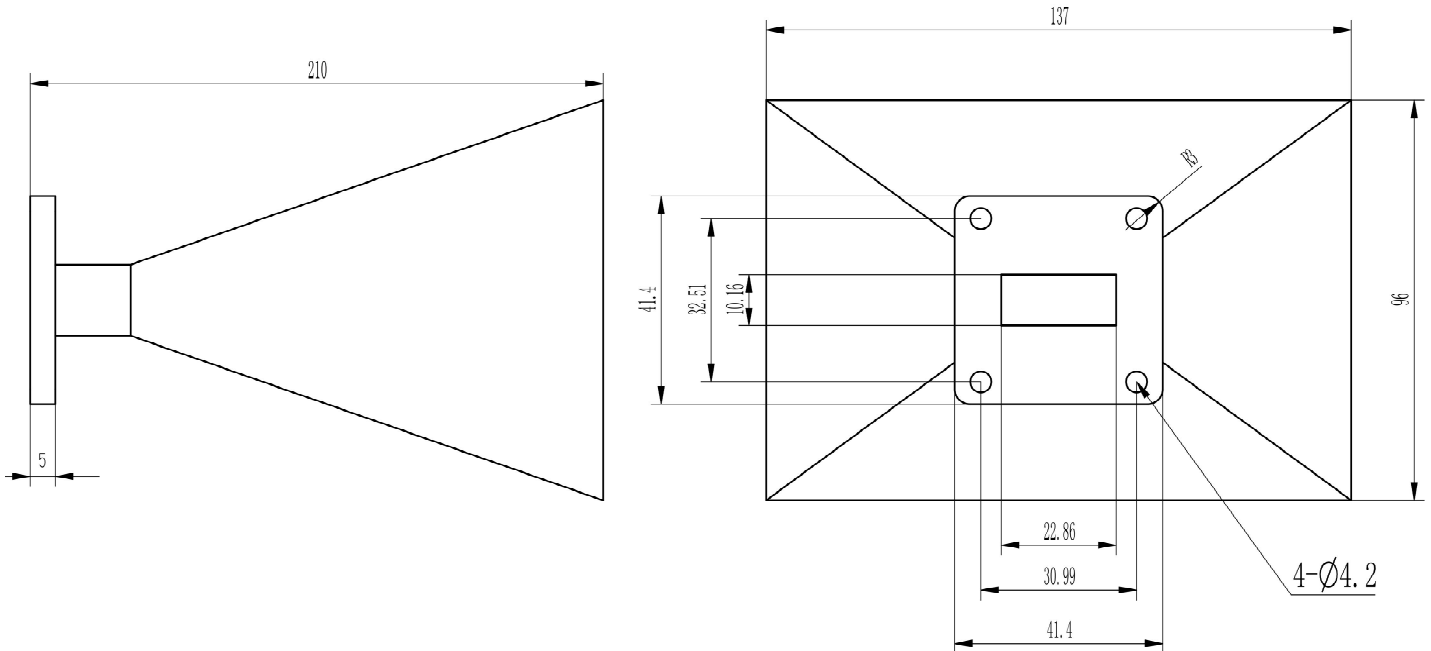
**Electrical**

Frequency Range	8.2-12.5 GHz
Norminal Gain	20 dBi
Polarization	Linear
VSWR	1.2 max
3dB Beamwidth	H-Plane: 13.5~19.2 deg, E-Plane: 12.8~19.9 deg
Operating Temperature	-40°C~+70°C

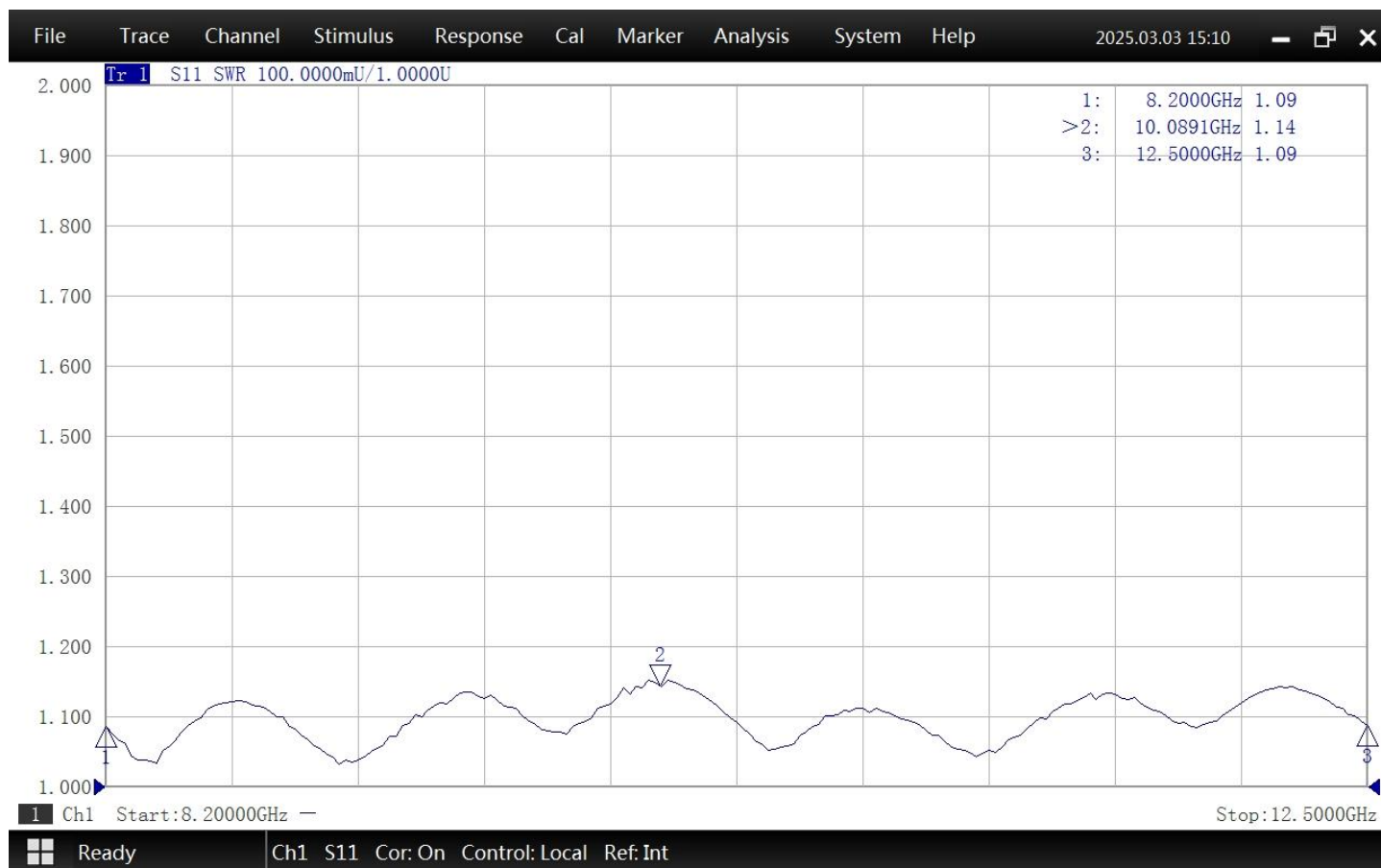
**Mechanical**

Waveguide Size	WR90
Flange Type	UBR100 Square Cover Flange
Body Material and Finish	Aluminum, Painted
Net Weight	Approx 320g

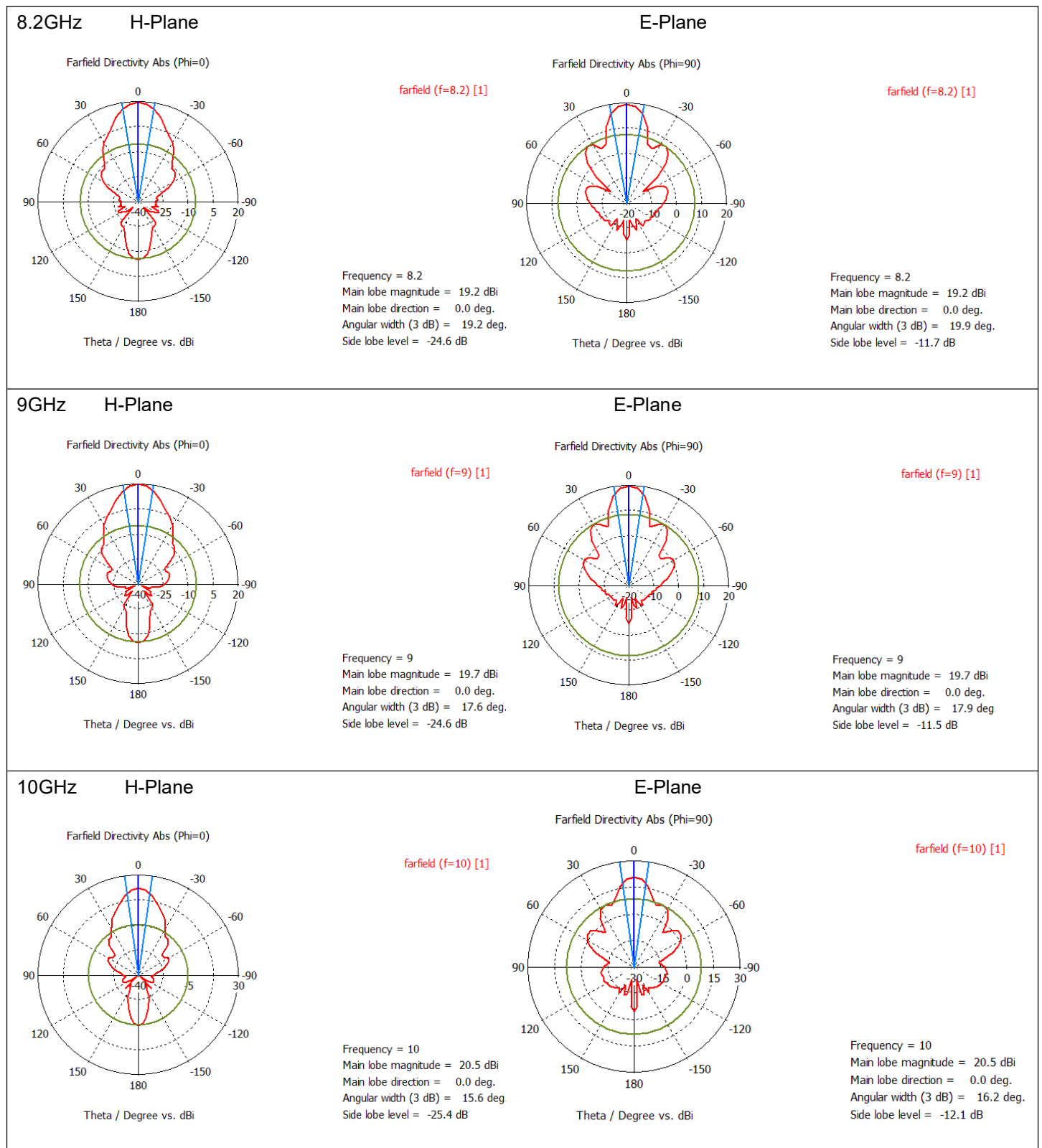
**Dimensions(mm)**



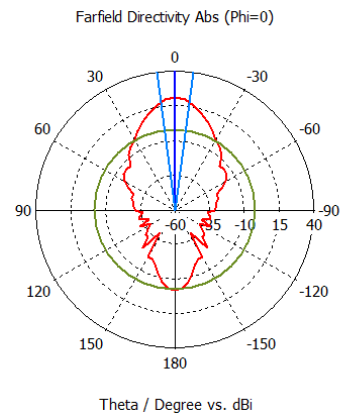
# Typical Test Data



# Simulated Antenna Patterns

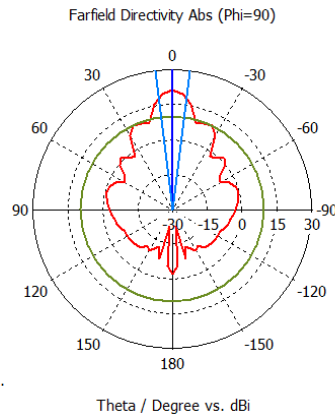


11GHz H-Plane



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

E-Plane

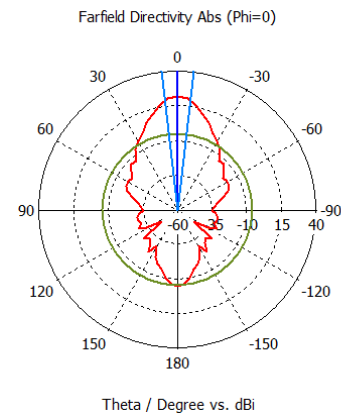


Frequency = 11  
 Main lobe magnitude = 21.0 dBi  
 Main lobe direction = 0.0 deg.  
 Angular width (3 dB) = 14.1 deg.  
 Side lobe level = -11.3 dB

farfield (f=11) [1]

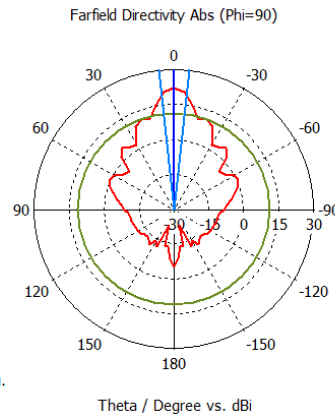
farfield (f=11) [1]

12.4GHz H-Plane



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

E-Plane



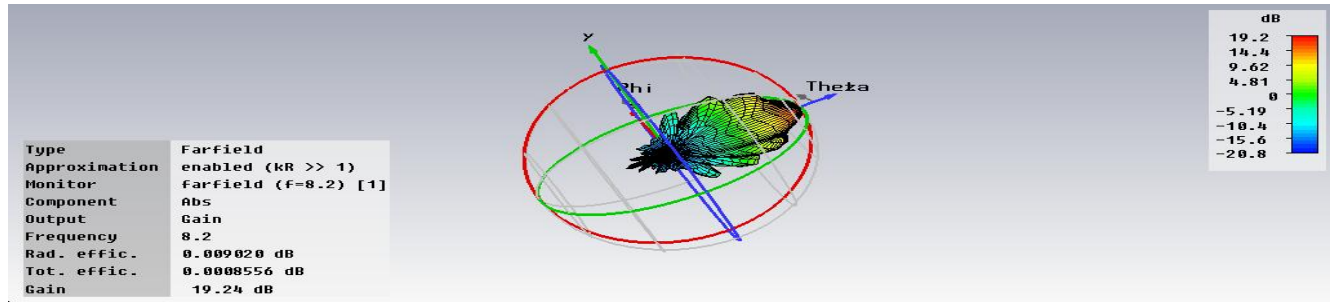
Frequency = 12.4  
 Main lobe magnitude = 21.8 dBi  
 Main lobe direction = 0.0 deg.  
 Angular width (3 dB) = 12.8 deg  
 Side lobe level = -10.6 dB

farfield (f=12.4) [1]

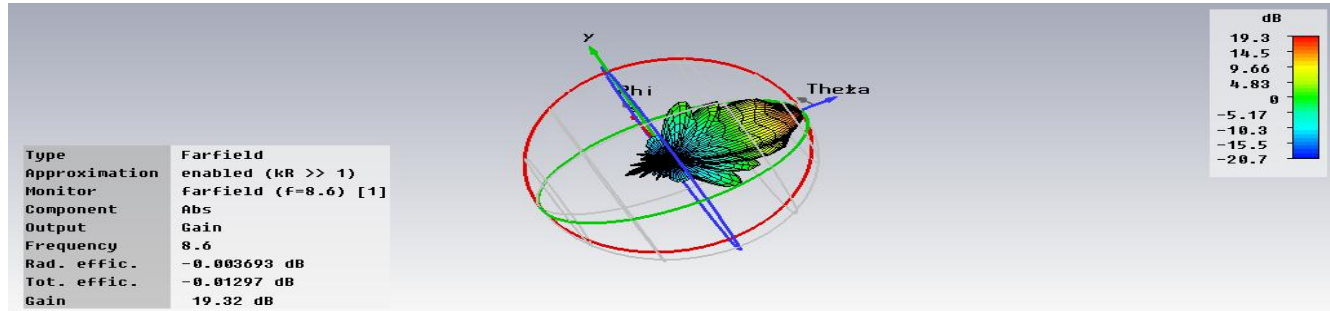
farfield (f=12.4) [1]

# Gain

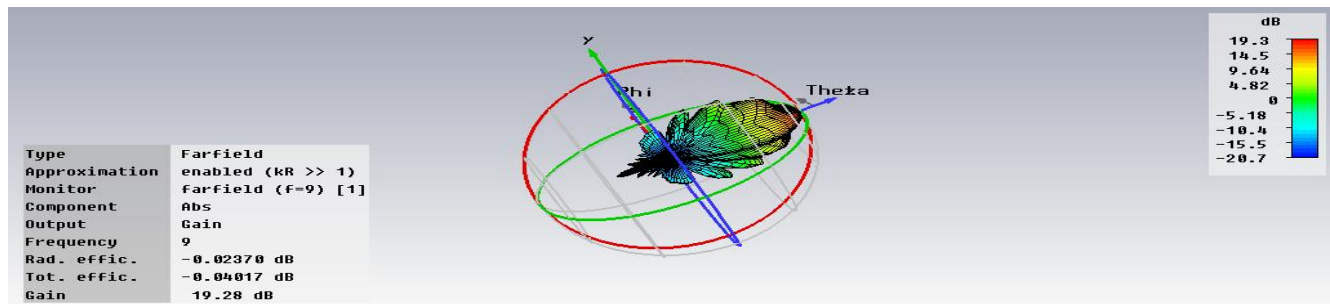
8.2GHz



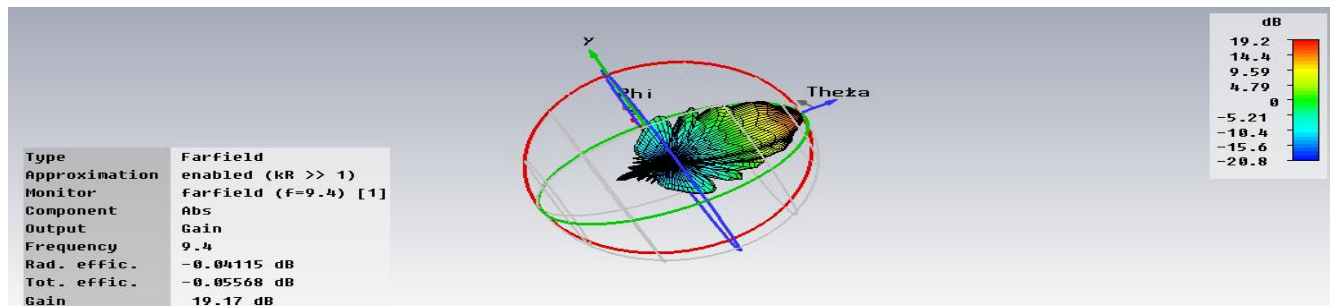
8.6GHz



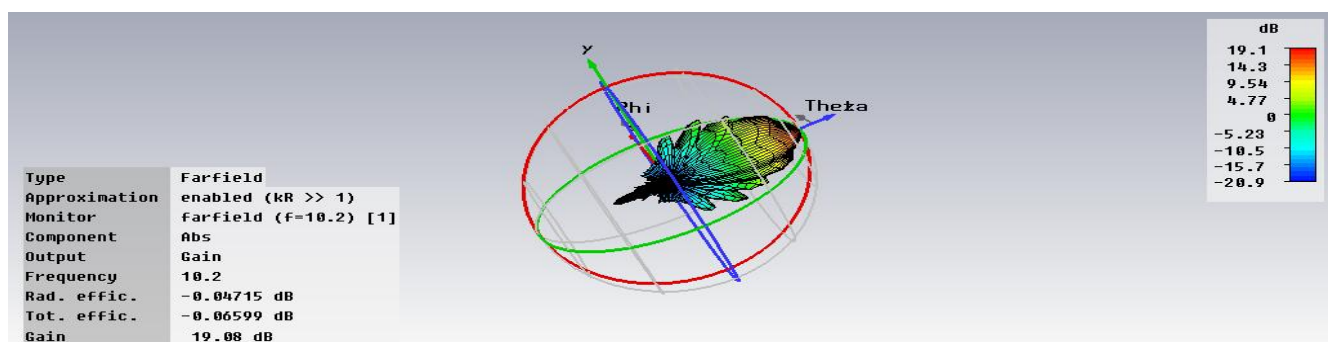
9GHz



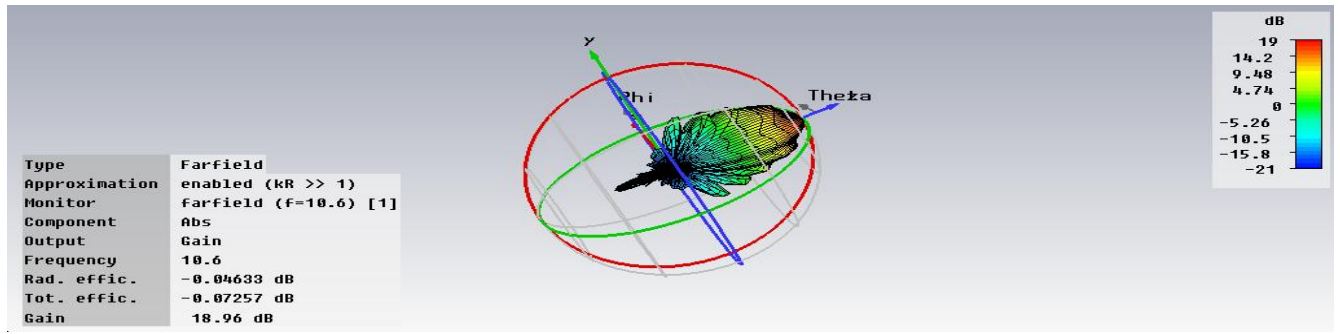
9.4GHz



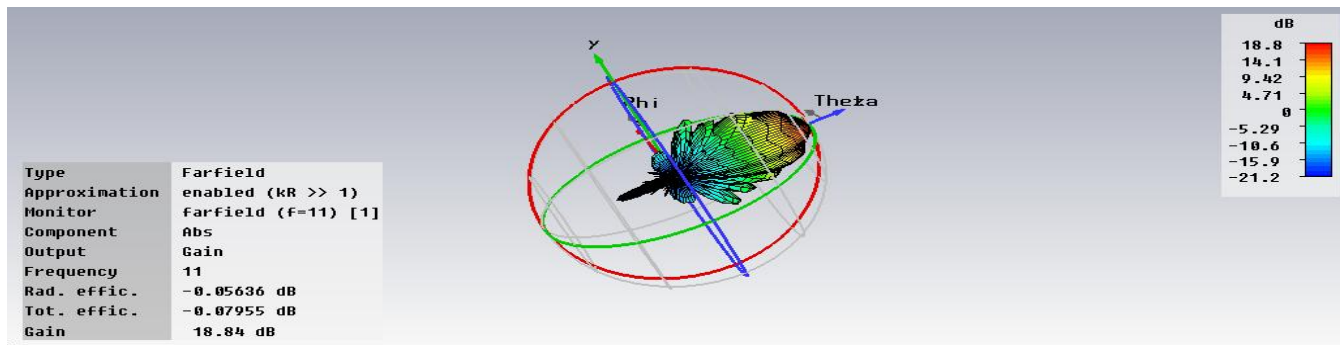
10.2GHz



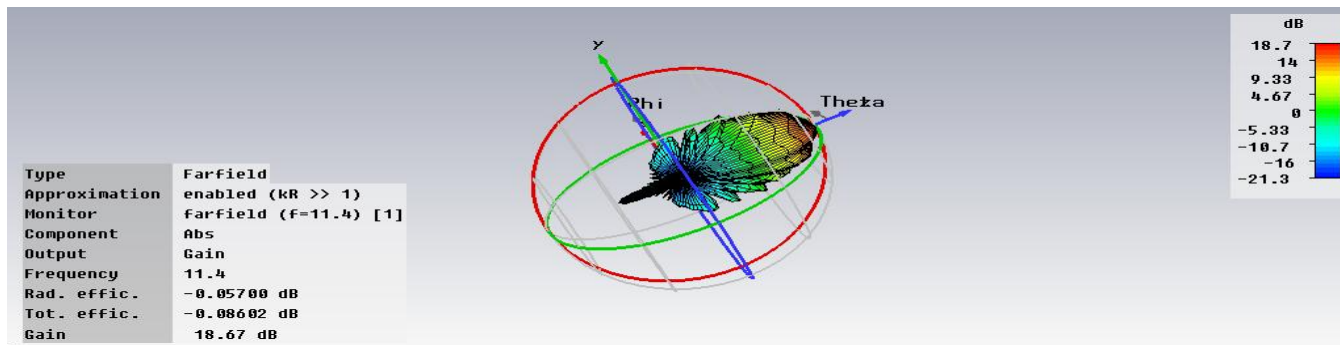
### 10.6GHz



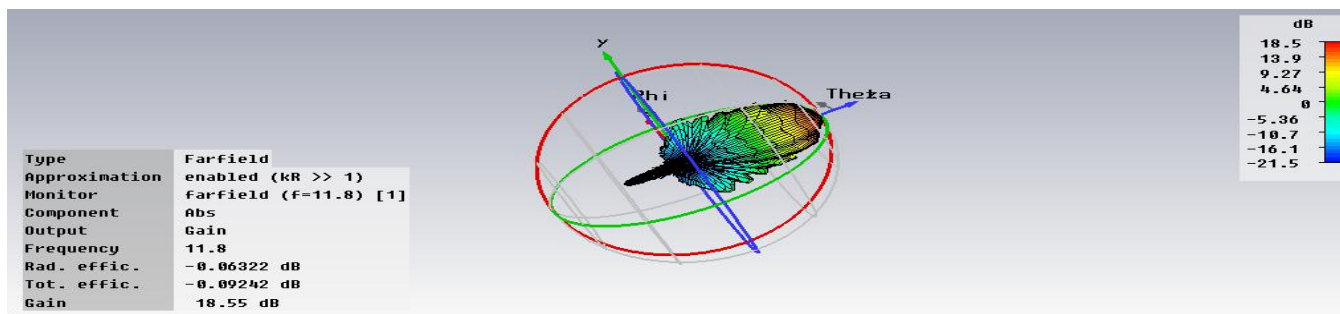
### 11GHz



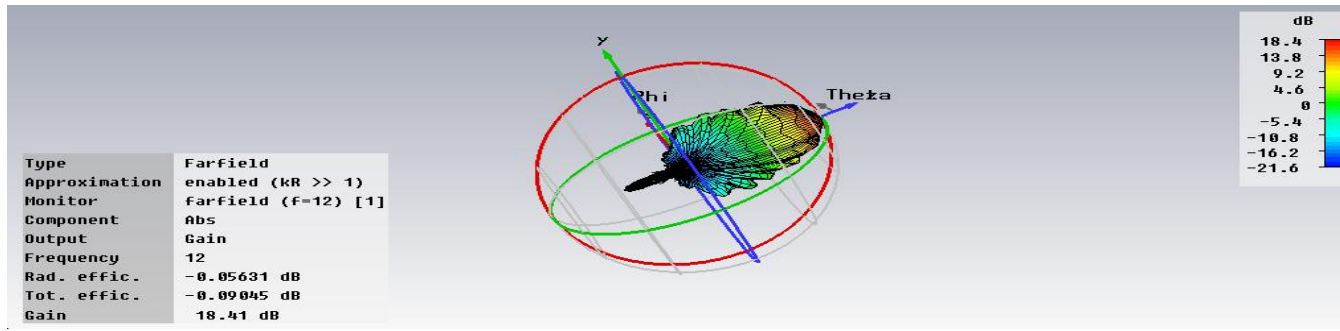
### 11.4GHz



### 11.8GHz



### 12GHz



# 12.4GHz

