LTE Omni - Directional Antenna 700-960/1710-2200/2500-2700 MHz

Version 0.1

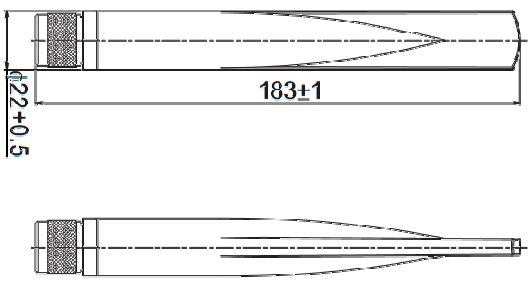
SAA15-33038B

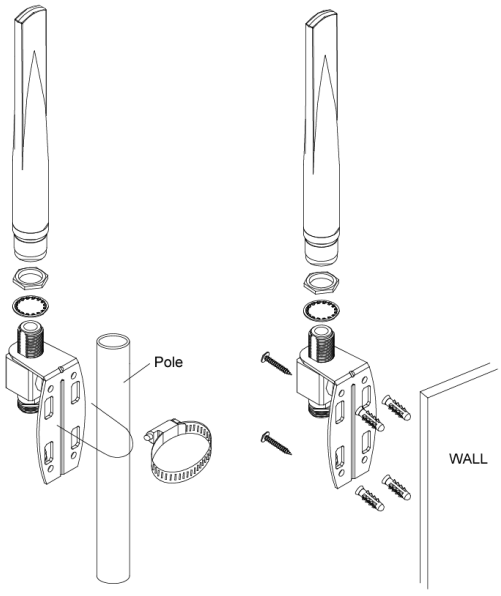
Electrical Specification

Frequency range	700 – 960 MHz	1700 – 2200MHz	2500 – 2700MHz
Peak Gain	1 dBi	3.3 dBi	3.5 dBi
VSWR	3.5 : 1 (max.)	2.5 : 1 (max.)	2.5: 1 (max.)
Polarization	Linear, Vertical		
Horizontal BW 3dB	360°		
Vertical BW 3dB	as follows		
Front-to-back ratio	N/A		
Isolation	N/A		
Input impedance	50 Ohm		
Cable	N/A		
Connector	N Plug x 1		
Power handling	10 W (cw)		
Lightning protection	N/A		
Surge protector	6G Surge N jack to N jack		

Environmental & Mechanical Characteristics

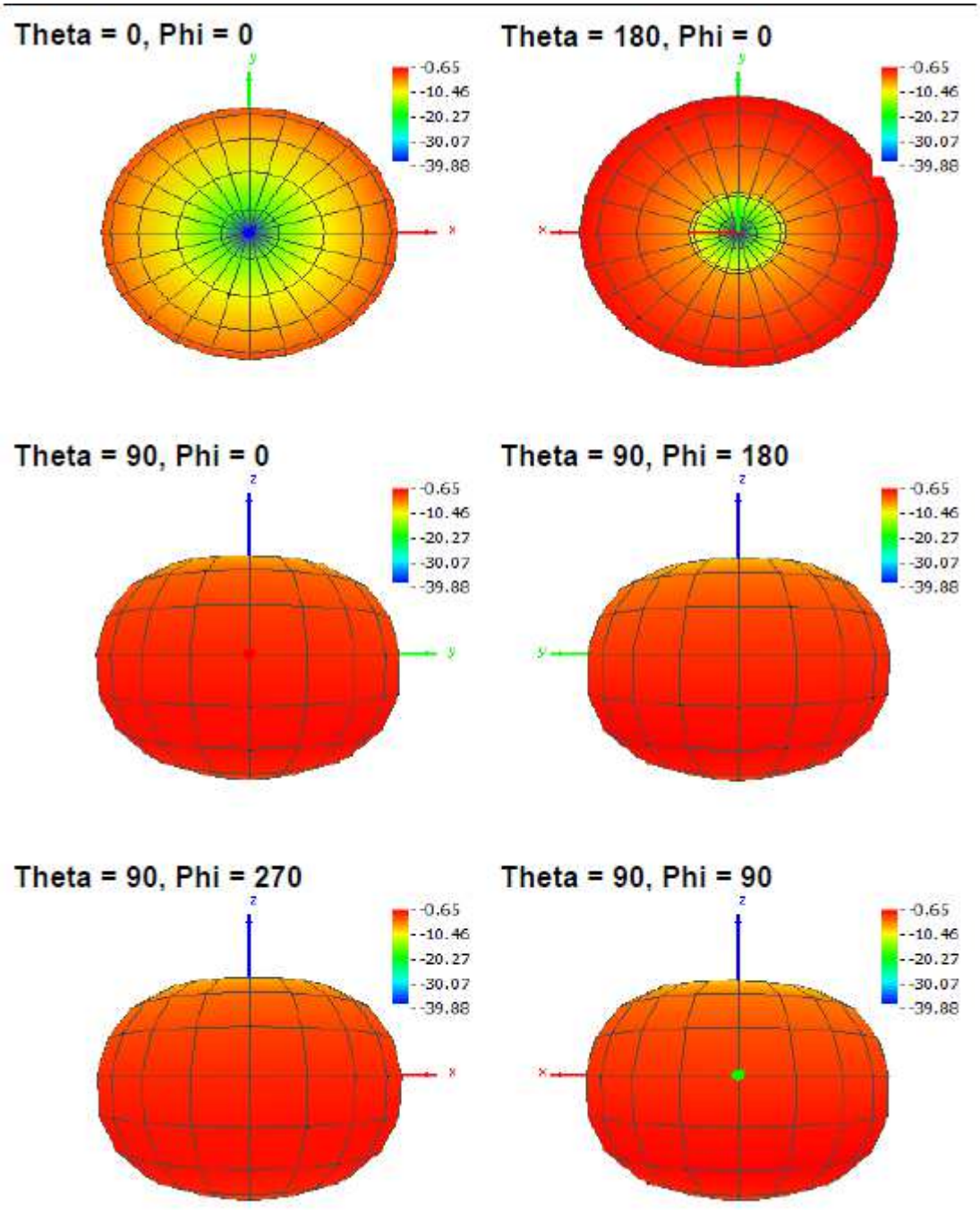
Survival wind speed	216 km/hr
Temperature	-40°C to +80°C
Humidity	95% @ 55°C
Radome color	Gray
Radome material	ABS, UV resistant
Weight	86 g
Dimensions	φ22 x 183 mm
Waterproof	IP-68
Mounting kit	Pole Mount & Wall Mount





Radiation Pattern

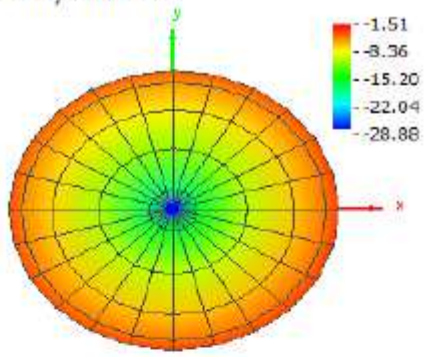
700 MHz



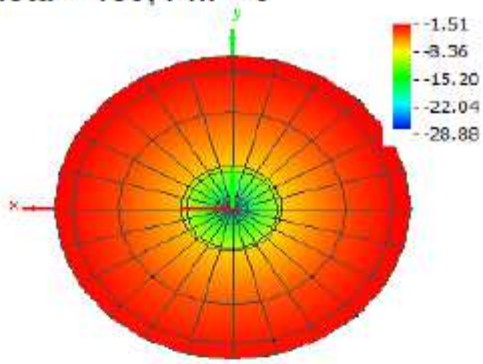
Frequency (GHz)	0.70 GHz
Peak Gain (dBi)	-0.65
H BW 3dB (degree)	360
V BW 3dB (degree)	75.2

750 MHz

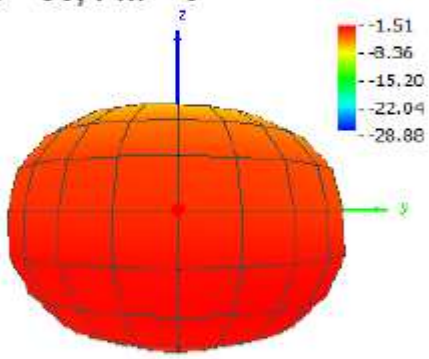
Theta = 0, Phi = 0



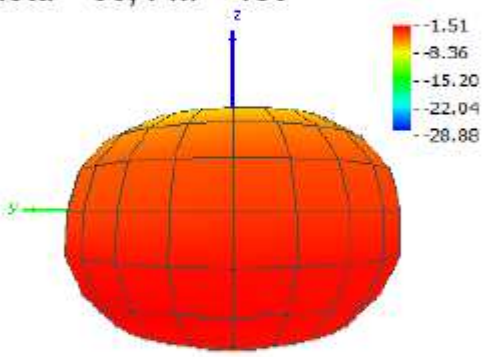
Theta = 180, Phi = 0



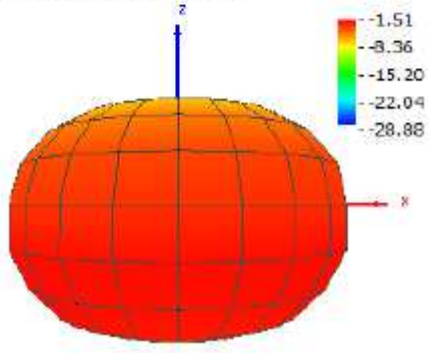
Theta = 90, Phi = 0



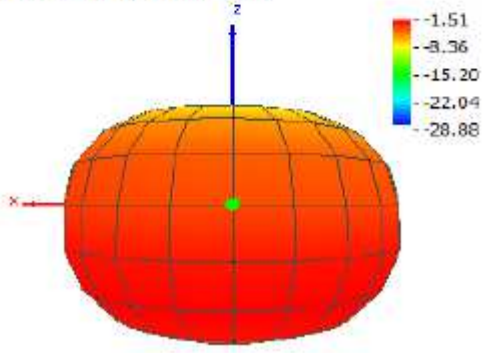
Theta = 90, Phi = 180



Theta = 90, Phi = 270

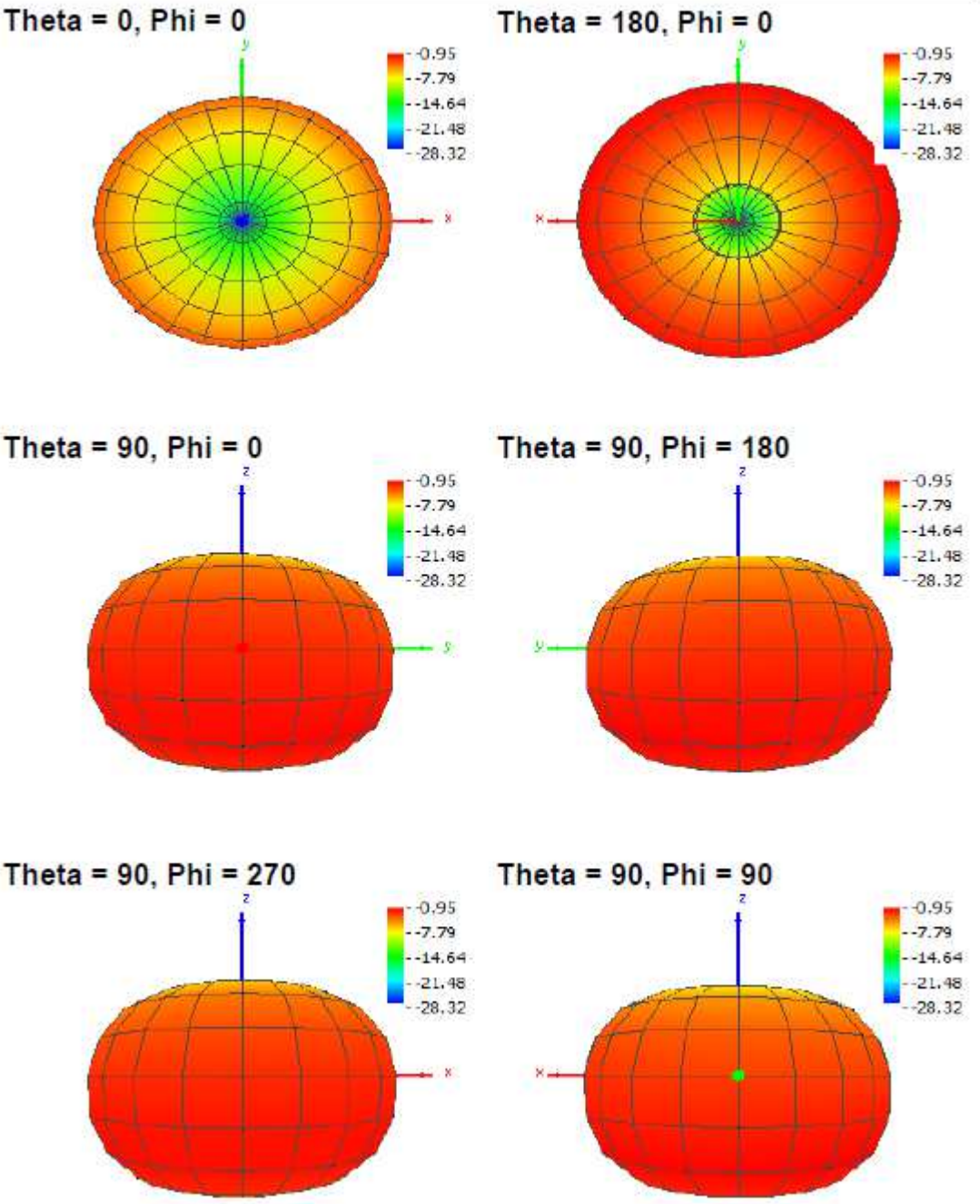


Theta = 90, Phi = 90



Frequency (GHz)	0.75 GHz
Peak Gain (dBi)	-1.51
H BW 3dB (degree)	360
V BW 3dB (degree)	83.9

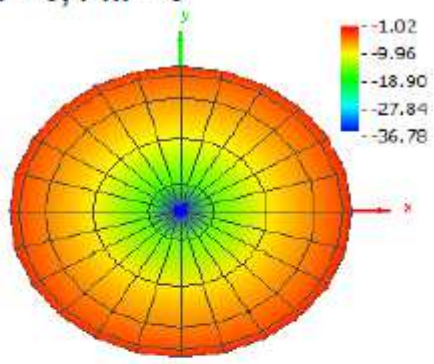
800 MHz



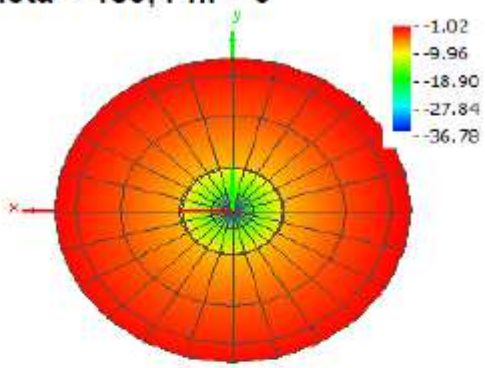
Frequency (GHz)	0.80 GHz
Peak Gain (dBi)	-0.95
H BW 3dB (degree)	360
V BW 3dB (degree)	81.6

850 MHz

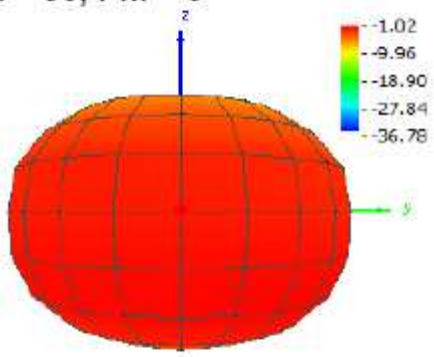
Theta = 0, Phi = 0



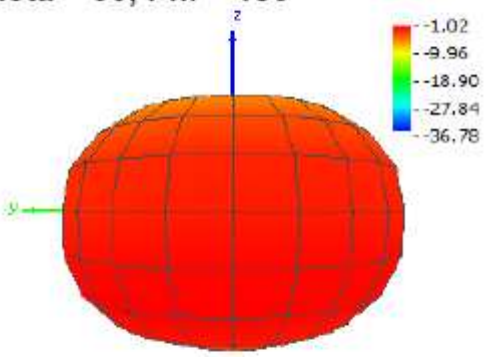
Theta = 180, Phi = 0



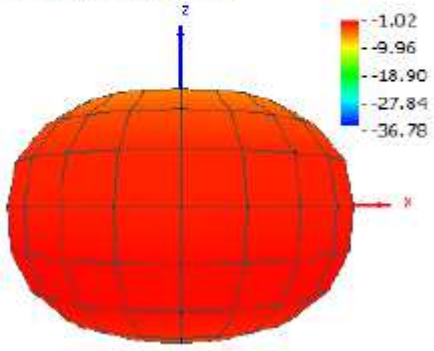
Theta = 90, Phi = 0



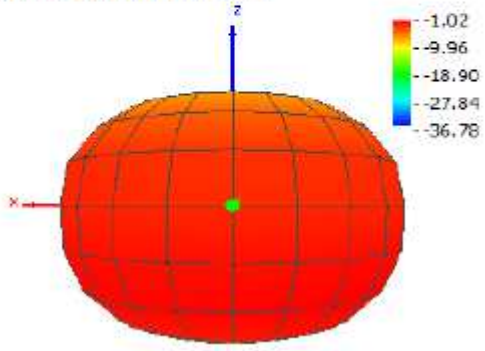
Theta = 90, Phi = 180



Theta = 90, Phi = 270

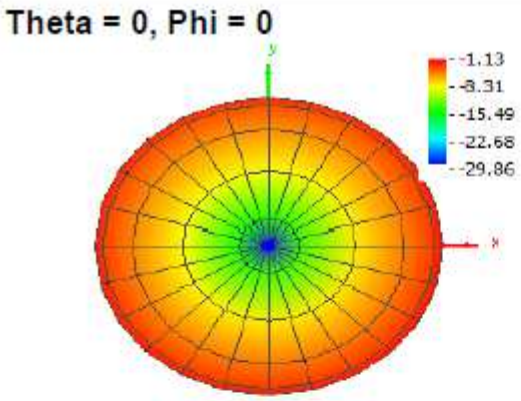


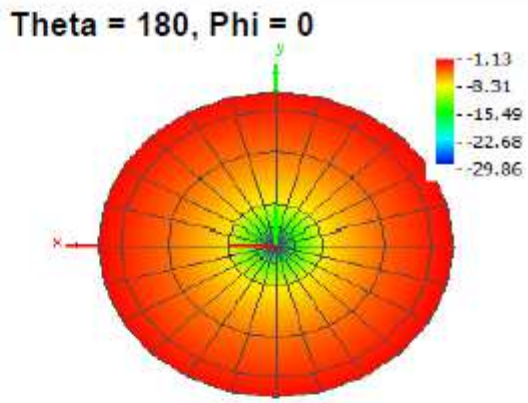
Theta = 90, Phi = 90

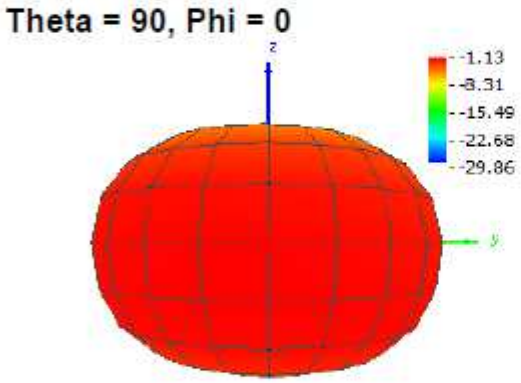


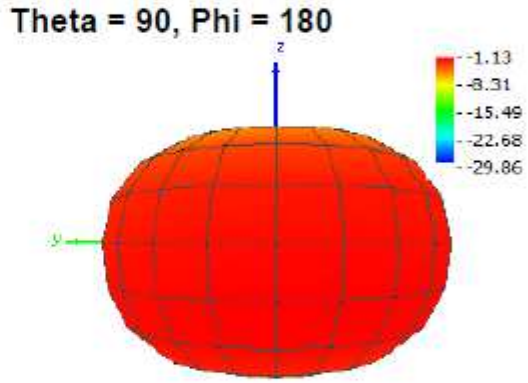
Frequency (GHz)	0.85 GHz
Peak Gain (dBi)	-1.02
H BW 3dB (degree)	360
V BW 3dB (degree)	89.2

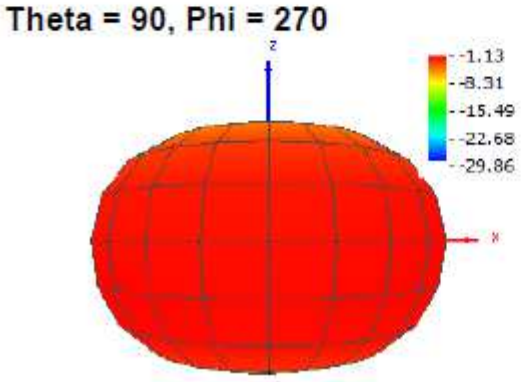
900 MHz

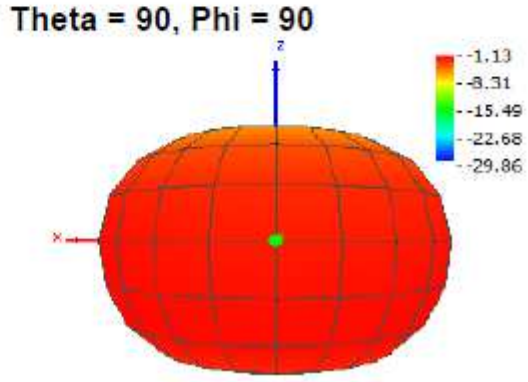






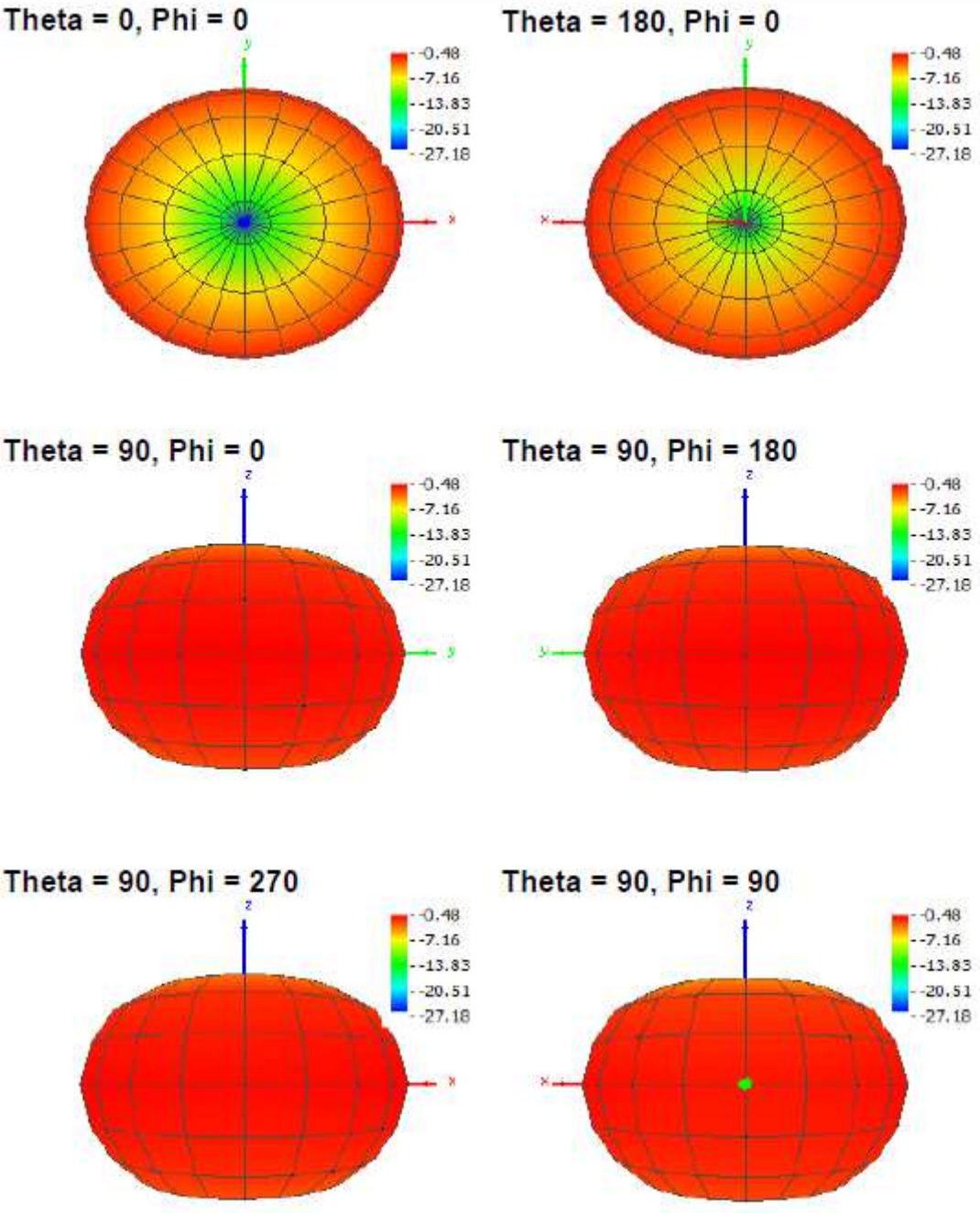






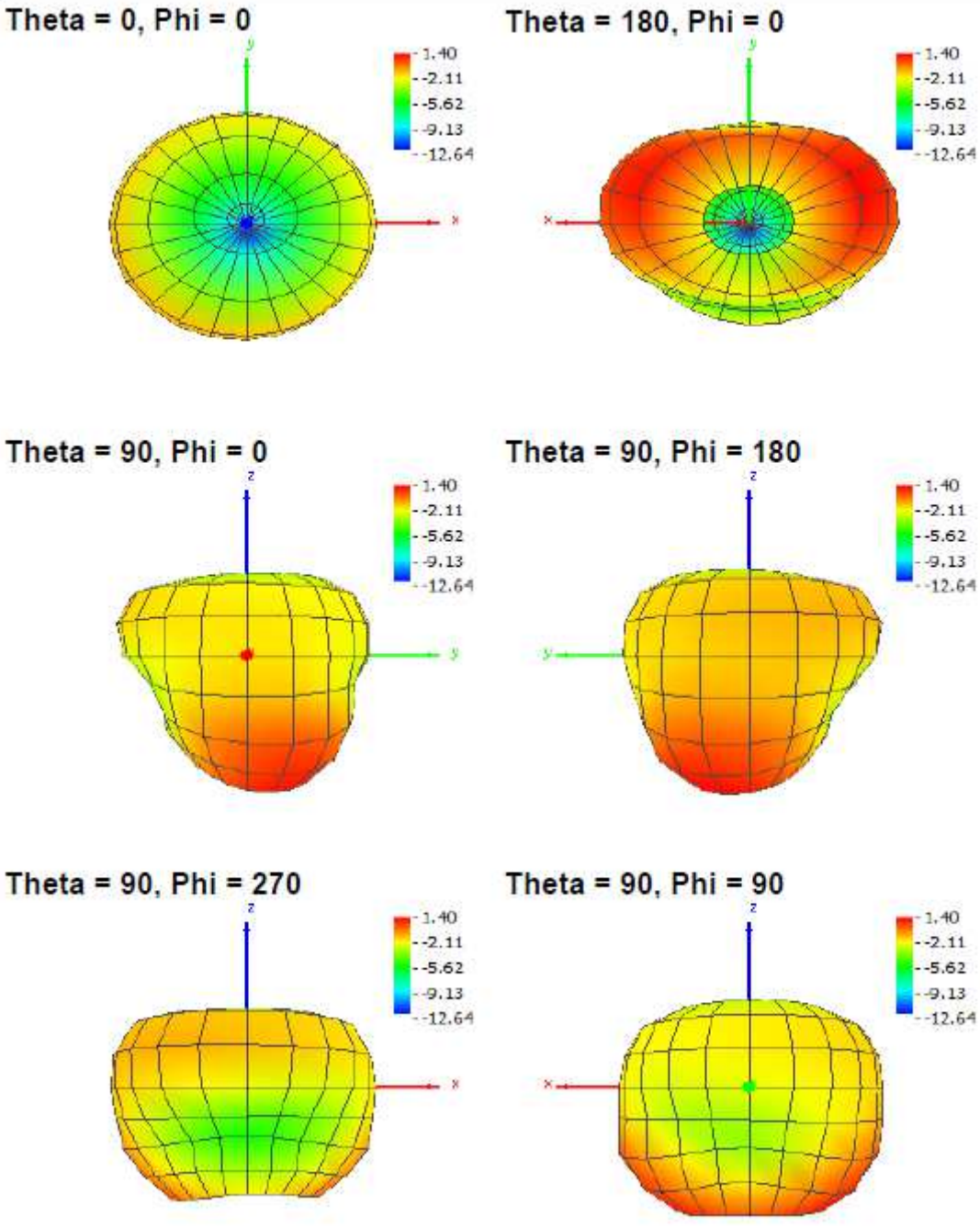
Frequency (GHz)	0.90 GHz
Peak Gain (dBi)	-1.13
H BW 3dB (degree)	360
V BW 3dB (degree)	100.4

950 MHz



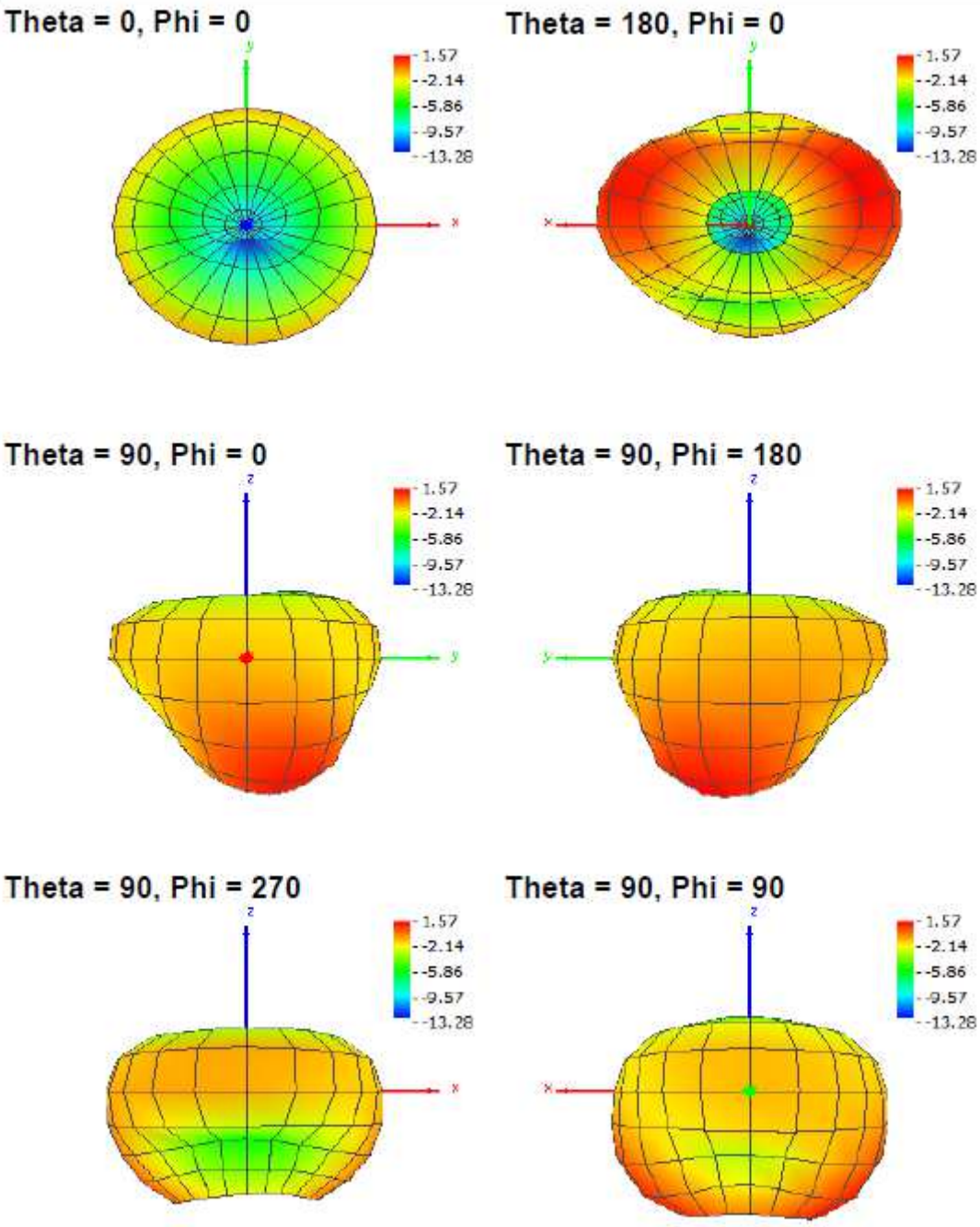
Frequency (GHz)	0.95 GHz
Peak Gain (dBi)	-0.48
H BW 3dB (degree)	360
V BW 3dB (degree)	96.4

1700 MHz



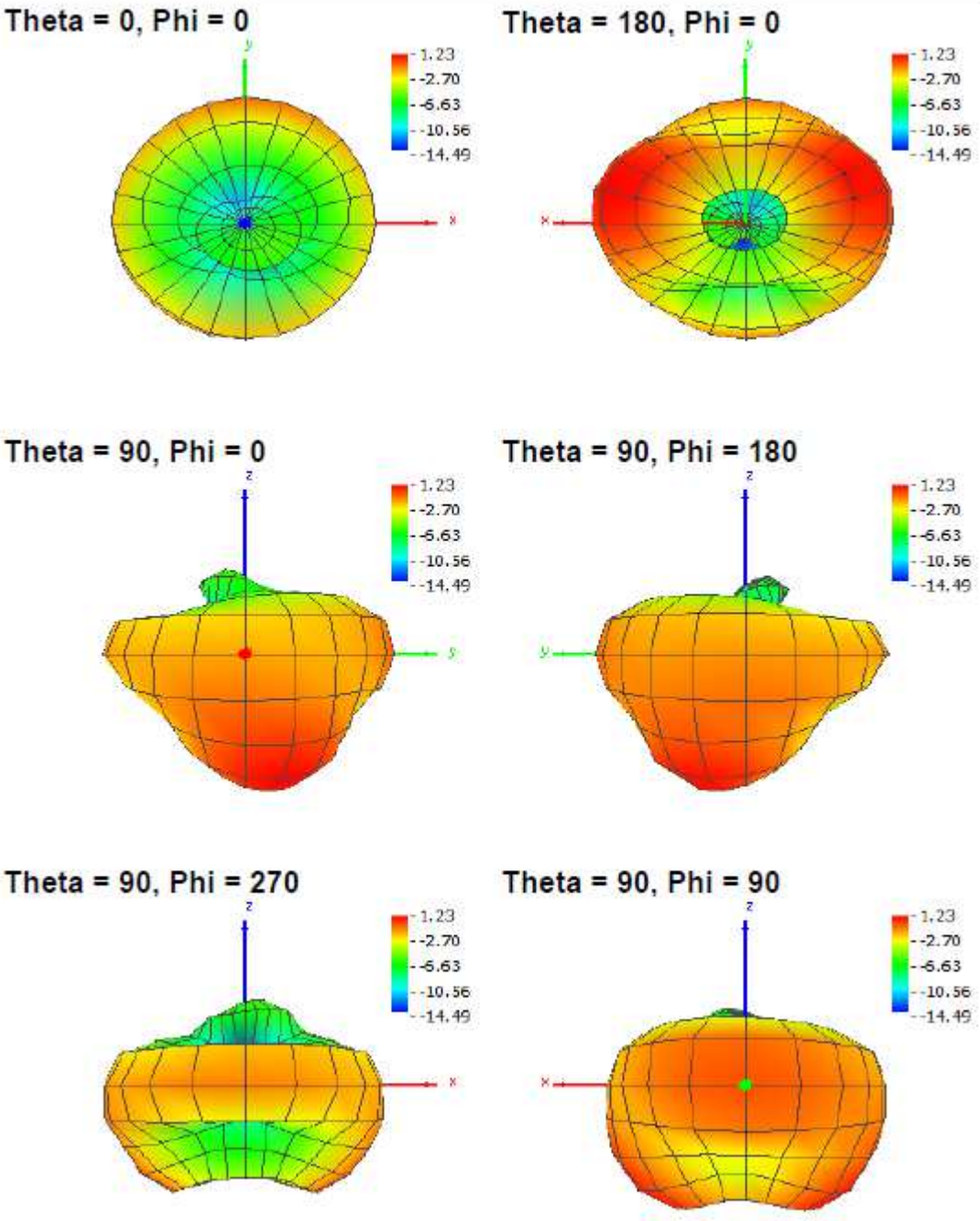
Frequency (GHz)	1.70 GHz
Peak Gain (dBi)	1.40
H BW 3dB (degree)	360
V BW 3dB (degree)	103.6

1800 MHz



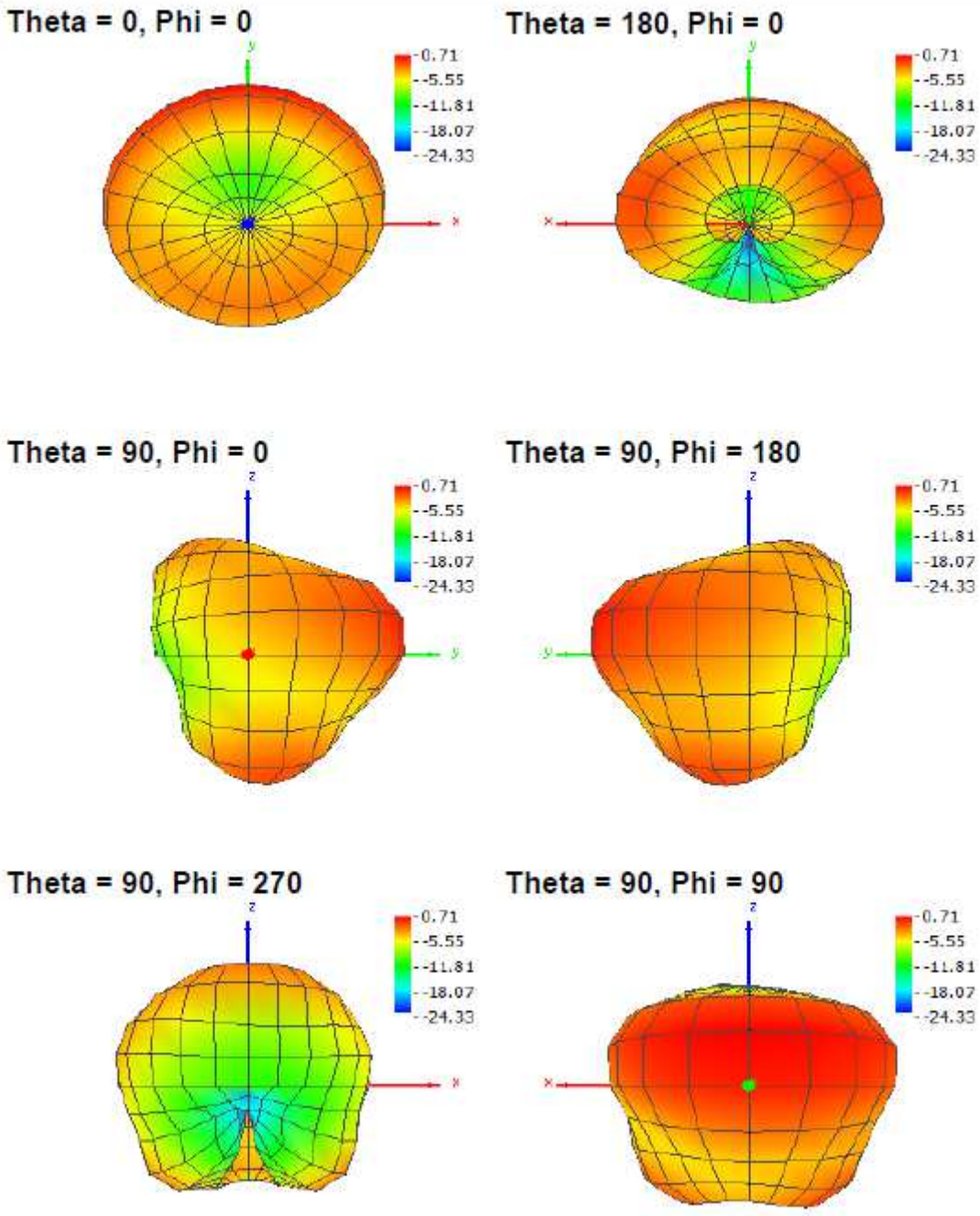
Frequency (GHz)	1.80 GHz
Peak Gain (dBi)	1.57
H BW 3dB (degree)	360
V BW 3dB (degree)	75.5

1900 MHz



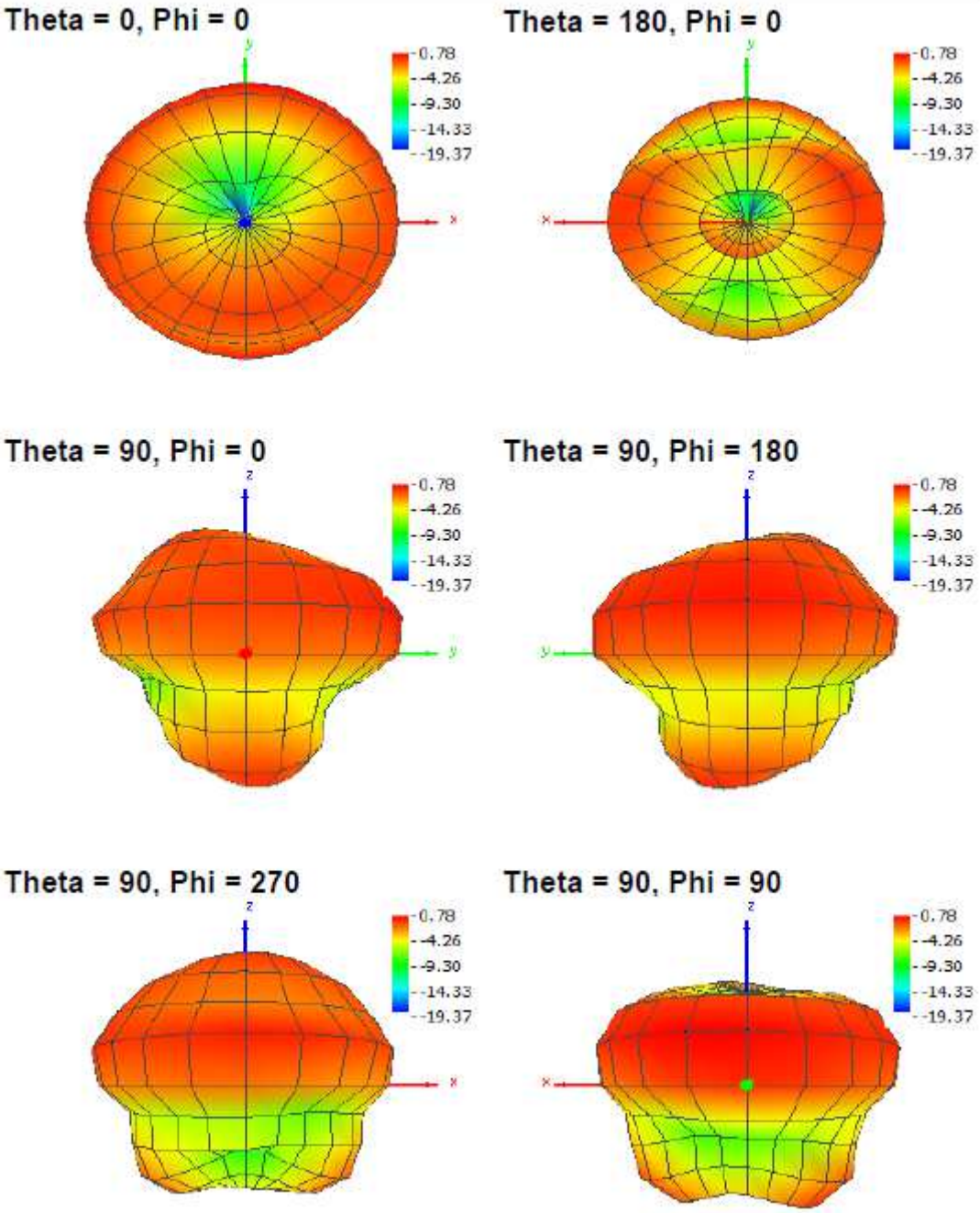
Frequency (GHz)	1.90 GHz
Peak Gain (dBi)	1.23
H BW 3dB (degree)	360
V BW 3dB (degree)	79.2

2000 MHz



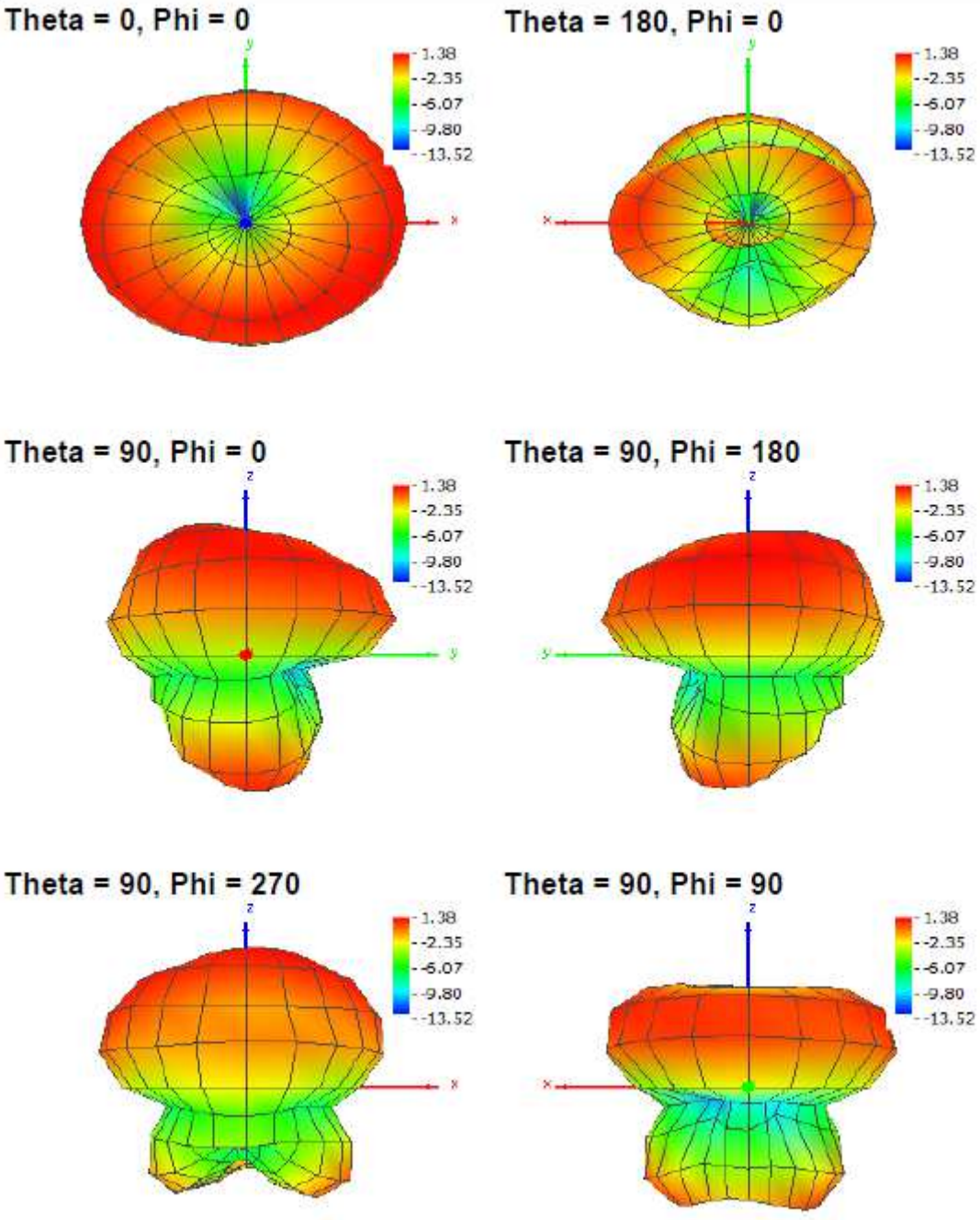
Frequency (GHz)	2.00 GHz
Peak Gain (dBi)	0.71
H BW 3dB (degree)	360
V BW 3dB (degree)	50.8

2100 MHz



Frequency (GHz)	2.10 GHz
Peak Gain (dBi)	0.78
H BW 3dB (degree)	360
V BW 3dB (degree)	42.9

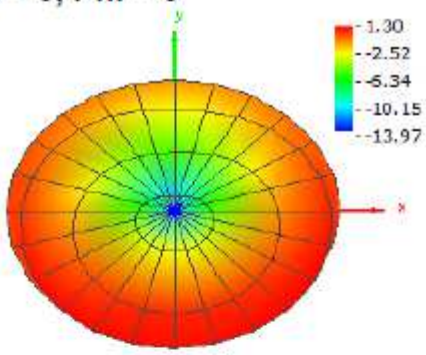
2200 MHz



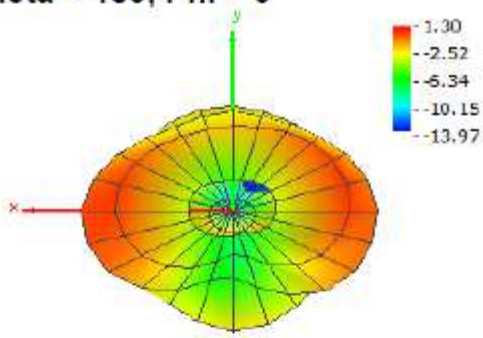
Frequency (GHz)	2.20 GHz
Peak Gain (dBi)	1.38
H BW 3dB (degree)	360
V BW 3dB (degree)	57.3

2300 MHz

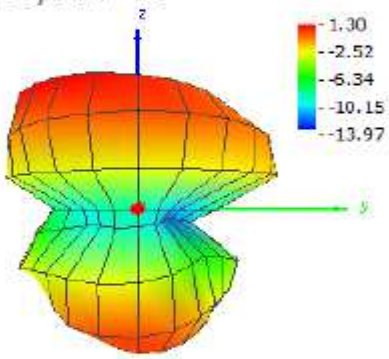
Theta = 0, Phi = 0



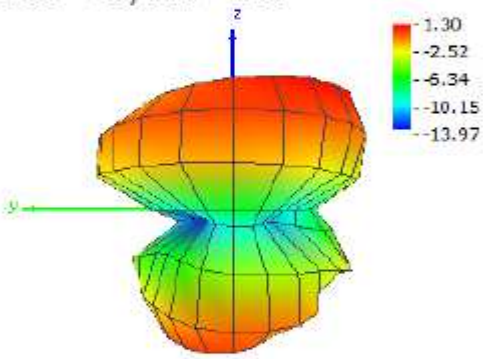
Theta = 180, Phi = 0



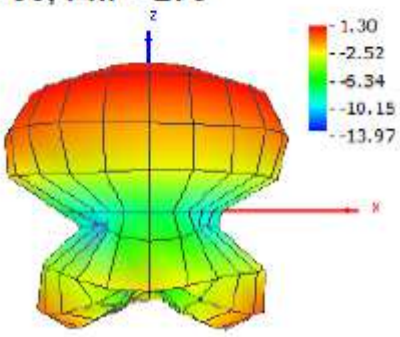
Theta = 90, Phi = 0



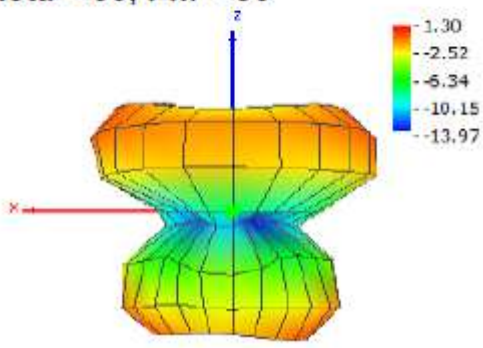
Theta = 90, Phi = 180



Theta = 90, Phi = 270



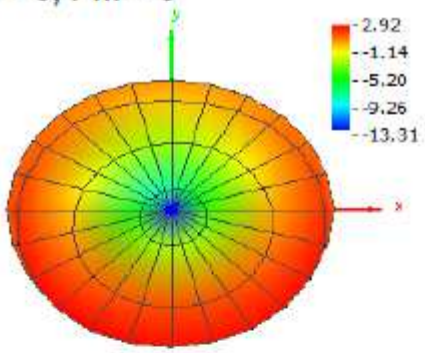
Theta = 90, Phi = 90



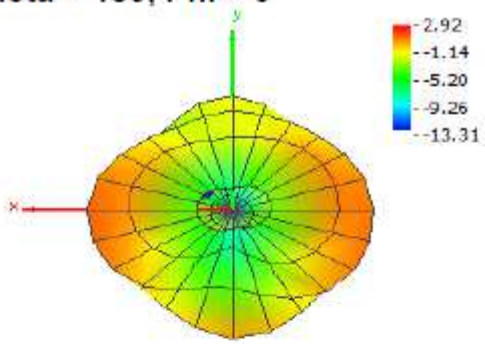
Frequency (GHz)	2.30 GHz
Peak Gain (dBi)	1.30
H BW 3dB (degree)	360
V BW 3dB (degree)	44.7

2400 MHz

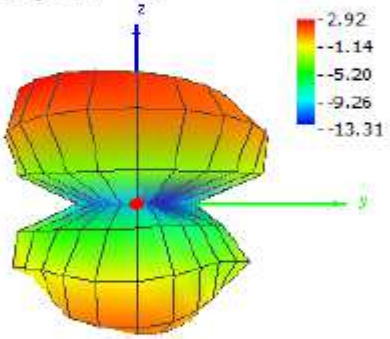
Theta = 0, Phi = 0



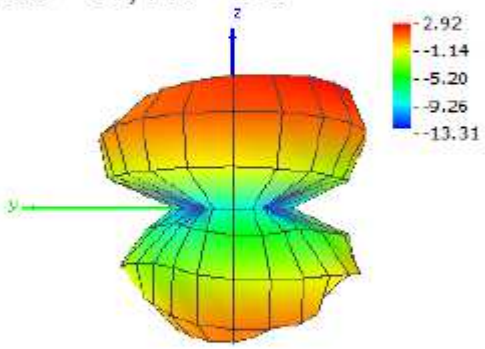
Theta = 180, Phi = 0



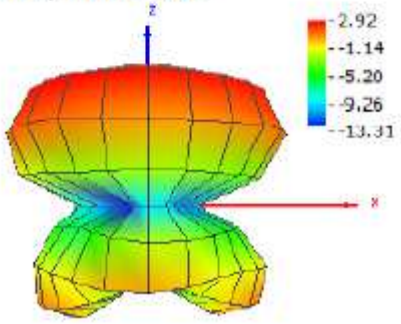
Theta = 90, Phi = 0



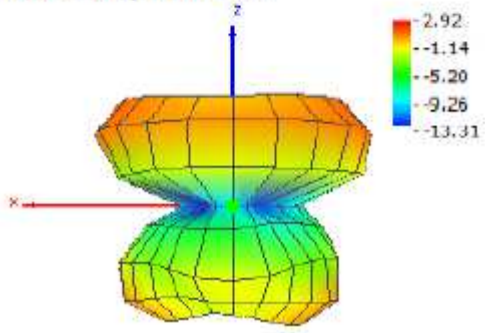
Theta = 90, Phi = 180



Theta = 90, Phi = 270



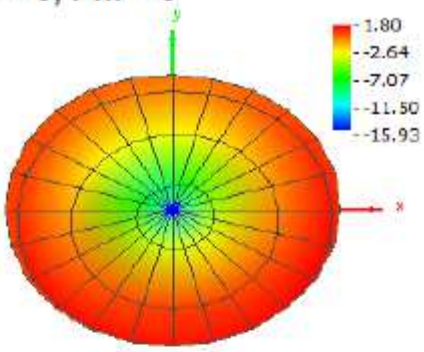
Theta = 90, Phi = 90



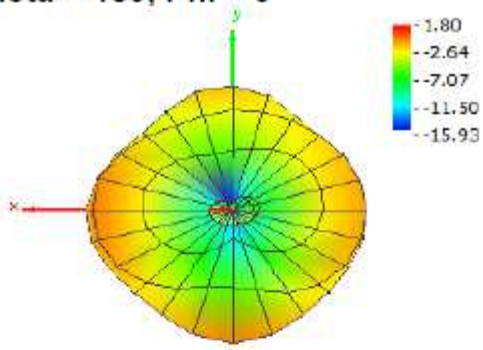
Frequency (GHz)	2.40 GHz
Peak Gain (dBi)	2.92
H BW 3dB (degree)	360
V BW 3dB (degree)	39.8

2500 MHz

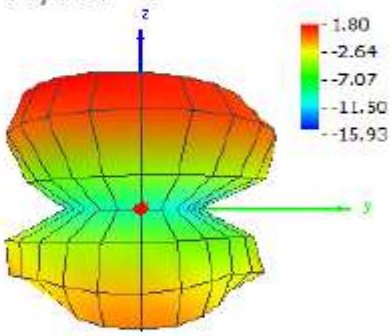
Theta = 0, Phi = 0



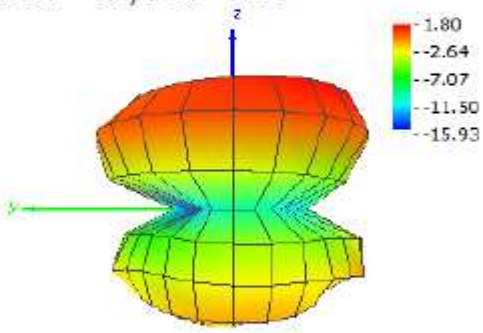
Theta = 180, Phi = 0



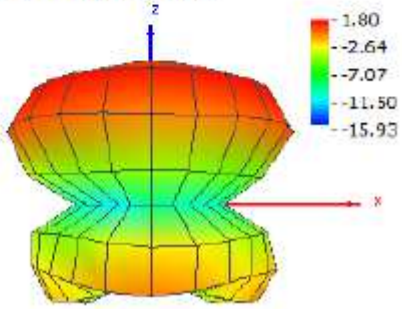
Theta = 90, Phi = 0



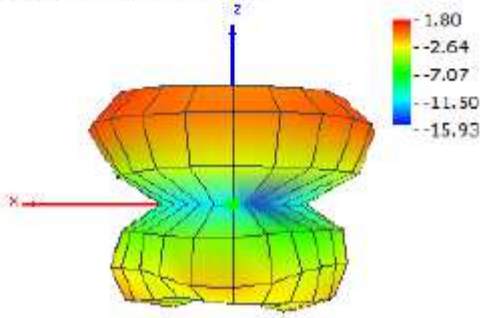
Theta = 90, Phi = 180



Theta = 90, Phi = 270

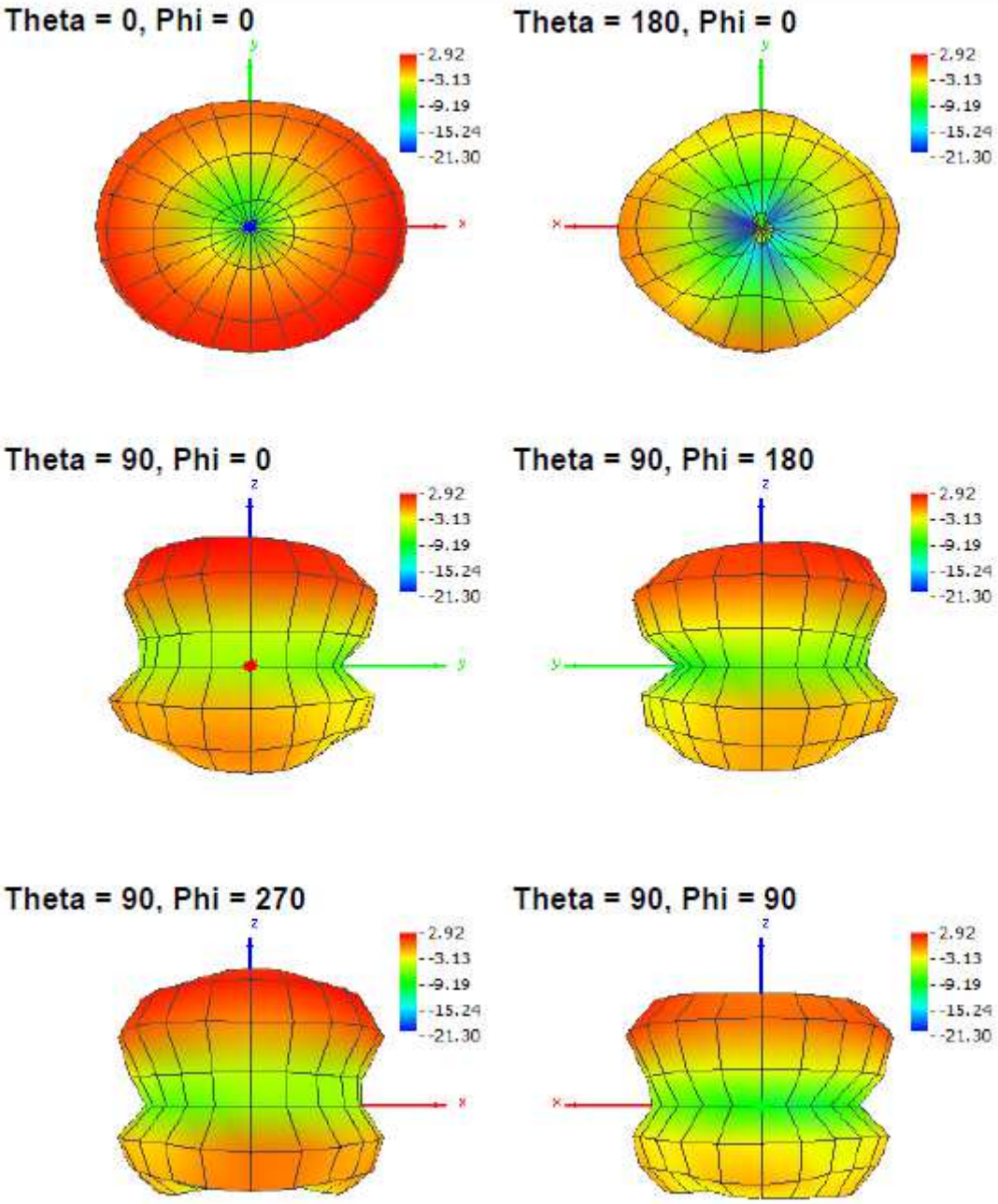


Theta = 90, Phi = 90



Frequency (GHz)	2.50 GHz
Peak Gain (dBi)	1.80
H BW 3dB (degree)	360
V BW 3dB (degree)	40.3

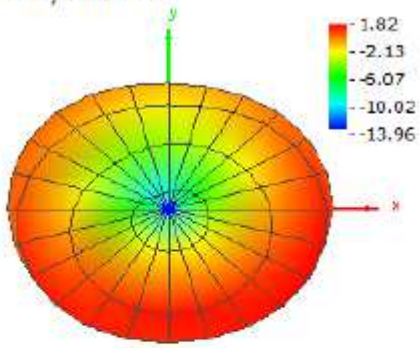
2600 MHz



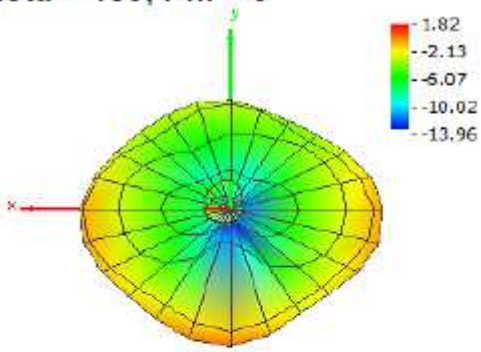
Frequency (GHz)	2.60 GHz
Peak Gain (dBi)	2.92
H BW 3dB (degree)	360
V BW 3dB (degree)	39.7

2700 MHz

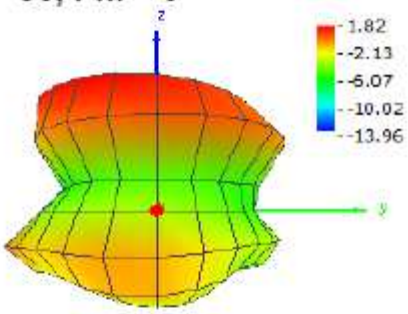
Theta = 0, Phi = 0



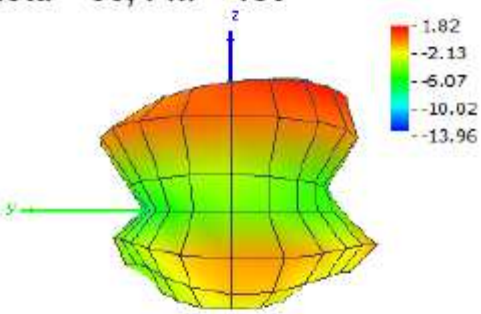
Theta = 180, Phi = 0



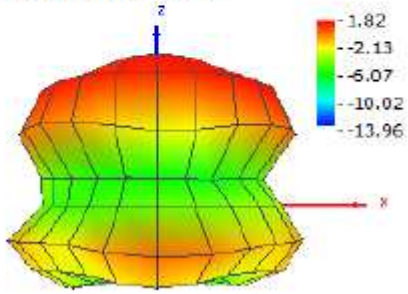
Theta = 90, Phi = 0



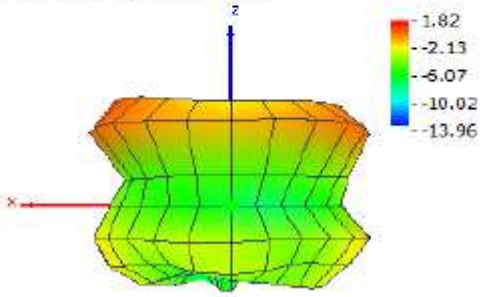
Theta = 90, Phi = 180



Theta = 90, Phi = 270



Theta = 90, Phi = 90



Frequency (GHz)	2.70 GHz
Peak Gain (dBi)	1.82
H BW 3dB (degree)	360
V BW 3dB (degree)	41.2