

# ANT1100055

Wi-Fi high gain antenna



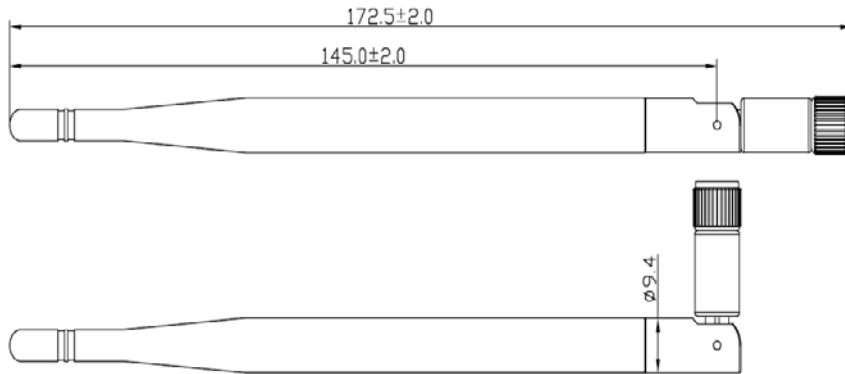
**WIFI** : 2400~2500MHz / 5150~5850 MHz



## Specifications:

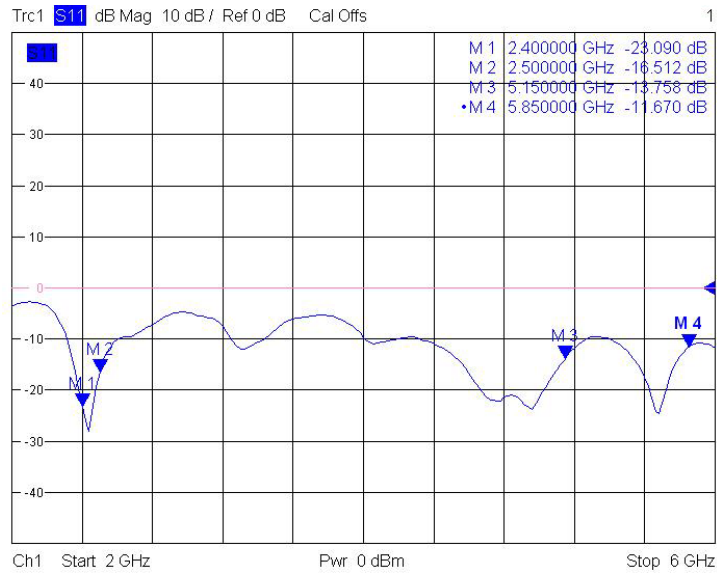
<b>Frequency range:</b>	2400~2500MHz / 5150~5850MHz
<b>Gain:</b>	6dBi (2.4GHz Band) / 4dBi (5GHz Band)
<b>V.S.W.R:</b>	≤ 2.0
<b>Impedence:</b>	50 ohm
<b>Connector:</b>	RSMA(SP)
<b>Material of Radiator:</b>	Cu / Zn Alloy
<b>Material of Plastic:</b>	TPEE/ABS/POM
<b>Antenna Color:</b>	Black
<b>Polarization:</b>	Linear
<b>Dimension:</b>	Ø9.4mm x 172.5±2mm
<b>Operating Temperature:</b>	-40°C ~ +80°C
<b>Storage Temperature:</b>	-40°C ~ +80°C
<b>Humidity:</b>	95% @ 25°C ; 48HR

**Dimension:**

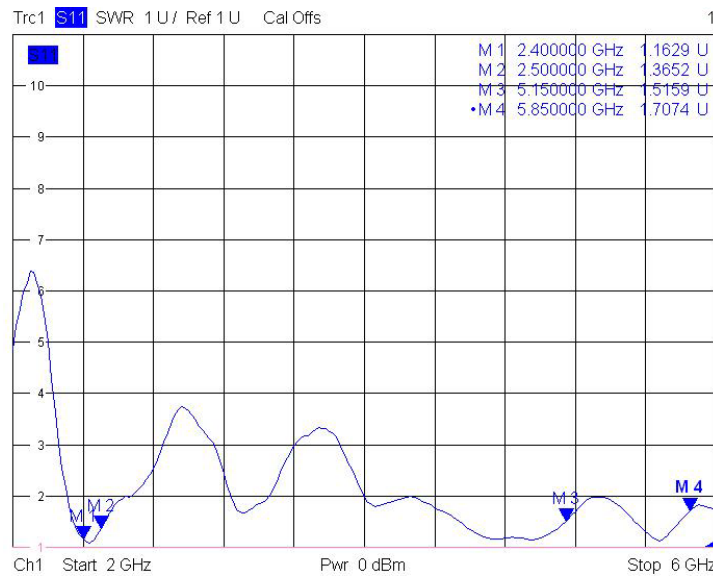


**Antenna Release Loss & VSWR:**

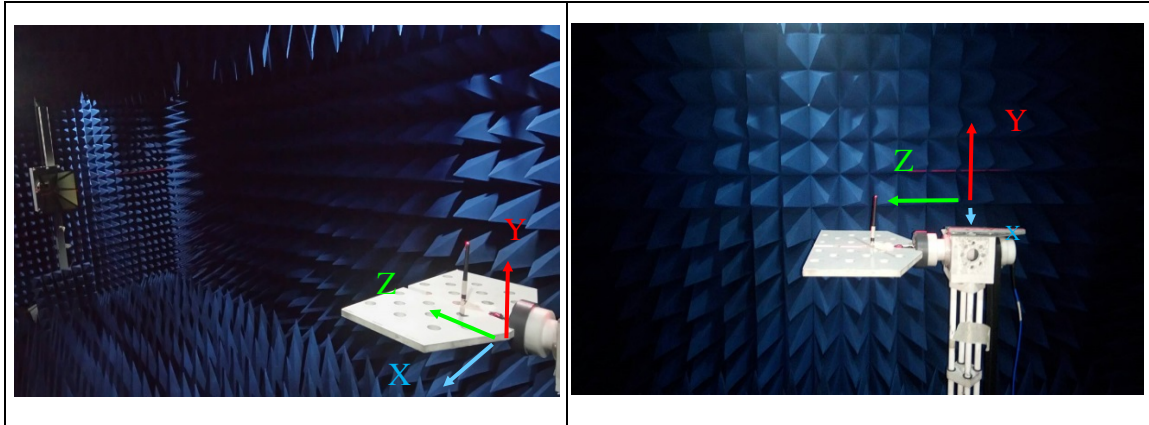
**Release Loss**



**VSWR**



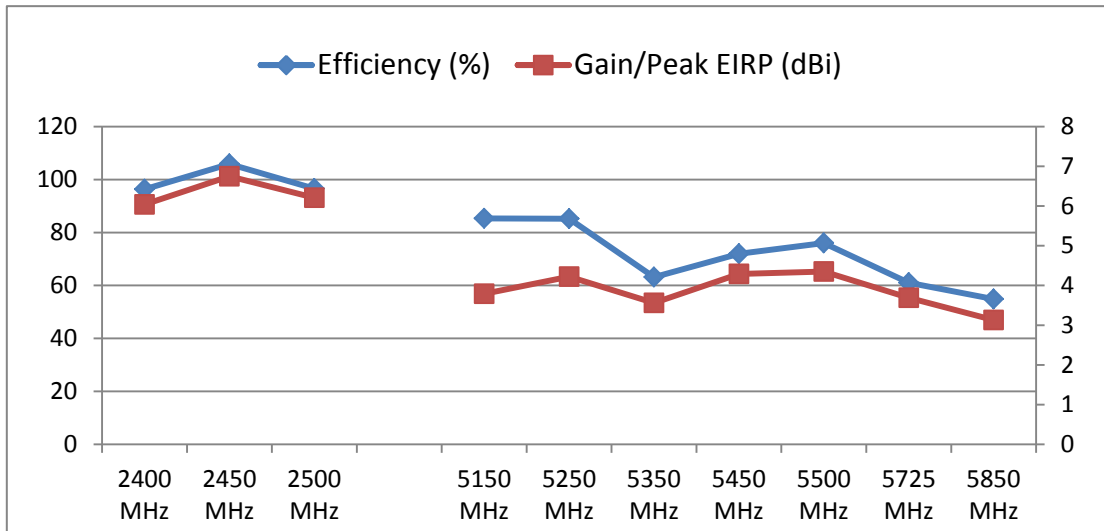
**Antenna Test setup Chamber:**



**Efficiency Table:**

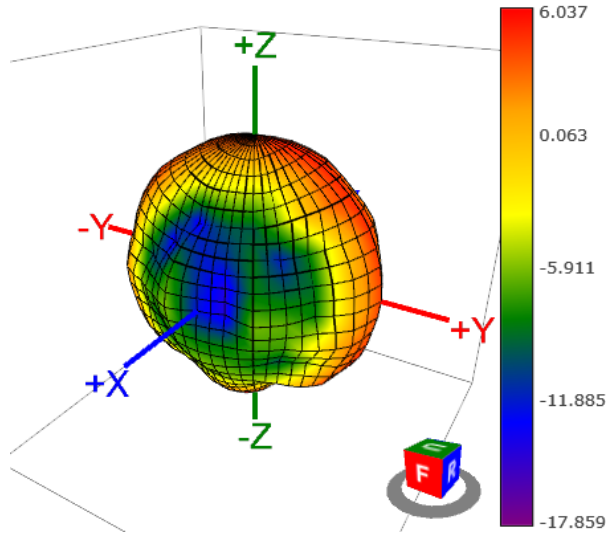
**WIFI Band**

Frequency (MHz)	2400	2450	2500	5150	5250	5350	5450	5500	5725	5850
Efficiency ( % )	96.33	105.88	96.59	85.32	85.23	63.14	71.95	76	61.03	54.84
Gain (dBi)	6.04	6.75	6.21	3.79	4.22	3.56	4.29	4.35	3.69	3.13



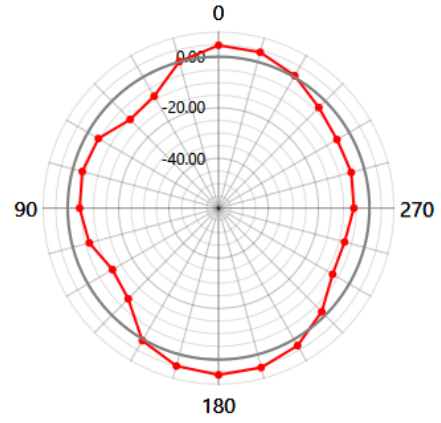
### 3D Radiation Pattern:

Frequency: 2400MHz



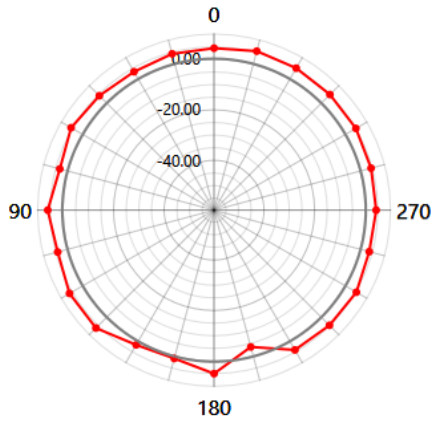
### 2D XY Gain

2400 MHz, Theta= 135°, Phi= 180°, Max= 6.04 dBi



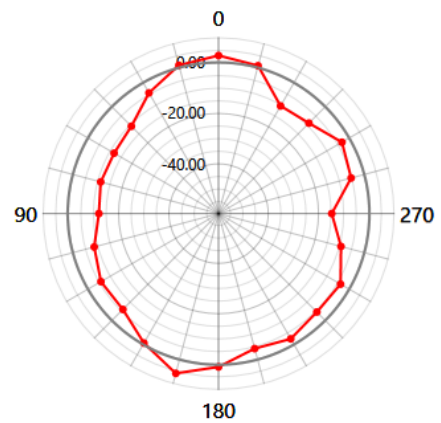
### 2D XZ Gain

2400 MHz, Theta= 135°, Phi= 180°, Max= 6.04 dBi

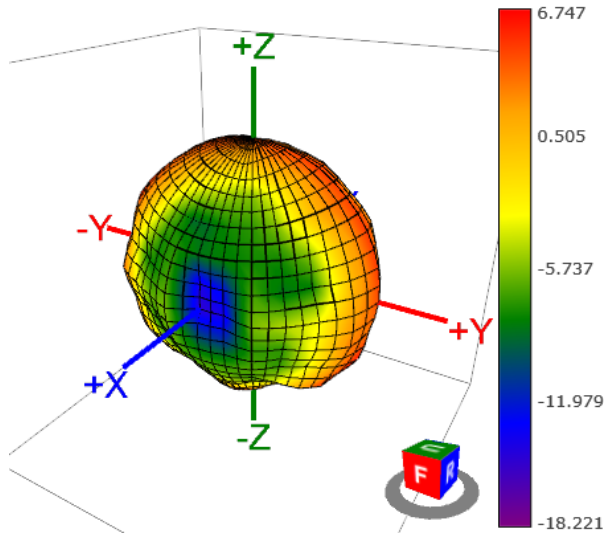


### 2D YZ Gain

2400 MHz, Theta= 135°, Phi= 180°, Max= 6.04 dBi

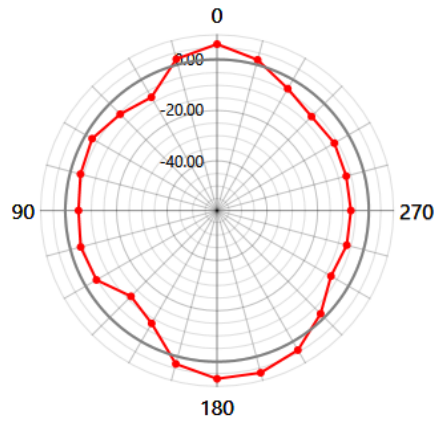


Frequency: 2450MHz



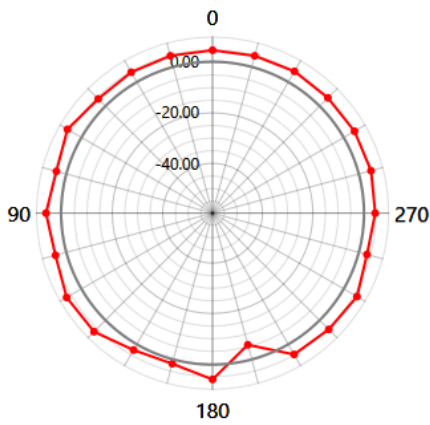
**2D XY Gain**

2450 MHz, Theta= 120°, Phi= 180°, Max= 6.75 dBi



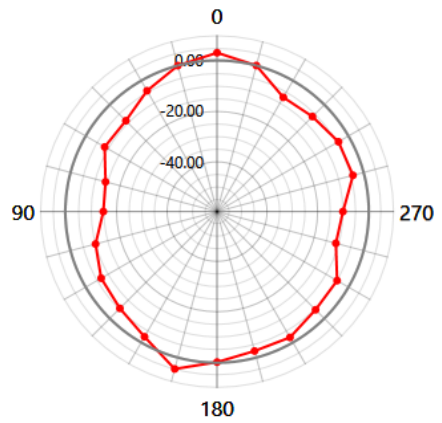
**2D XZ Gain**

2450 MHz, Theta= 120°, Phi= 180°, Max= 6.75 dBi

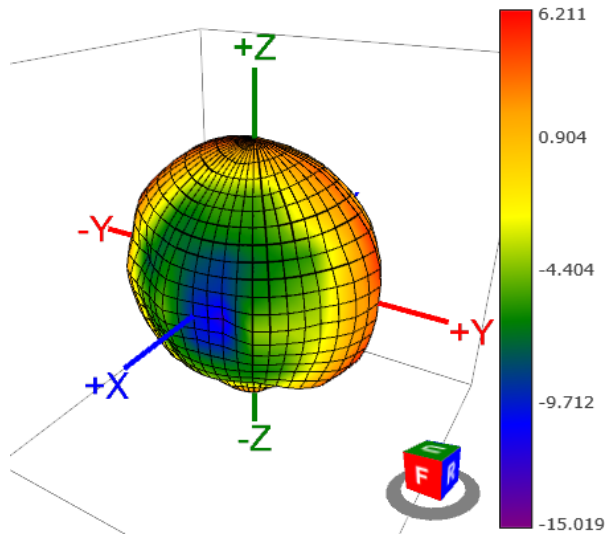


**2D YZ Gain**

2450 MHz, Theta= 120°, Phi= 180°, Max= 6.75 dBi

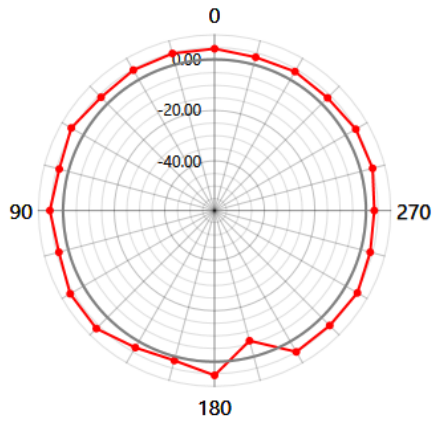


Frequency: 2500MHz



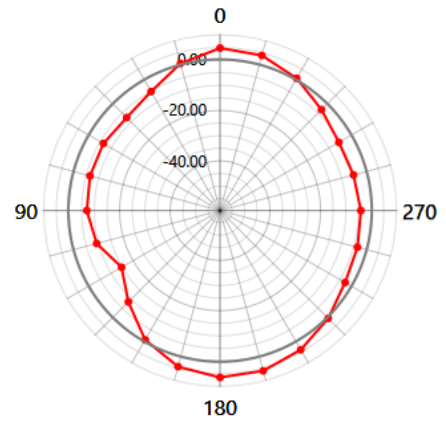
**2D XZ Gain**

2500 MHz, Theta= 135°, Phi= 180°, Max= 6.21 dBi



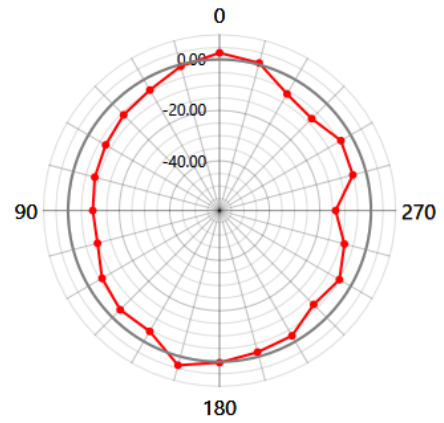
**2D XY Gain**

2500 MHz, Theta= 135°, Phi= 180°, Max= 6.21 dBi

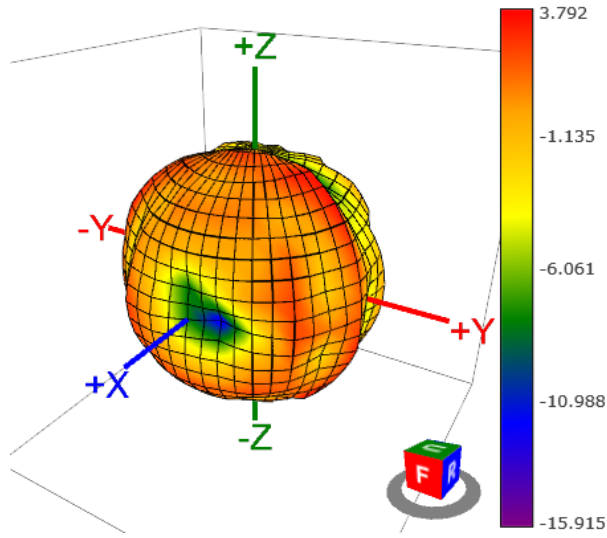


**2D YZ Gain**

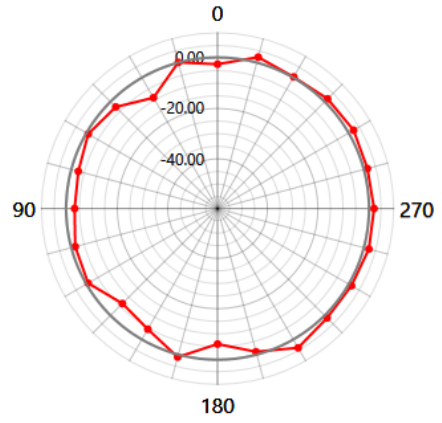
2500 MHz, Theta= 135°, Phi= 180°, Max= 6.21 dBi



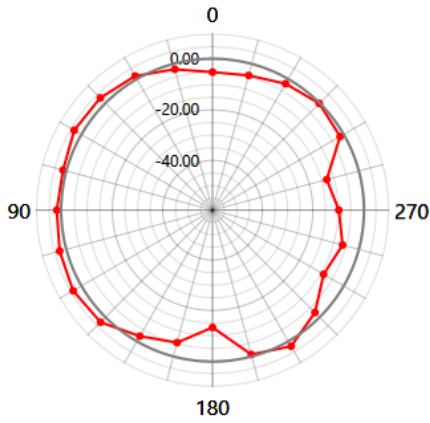
Frequency: 5150MHz



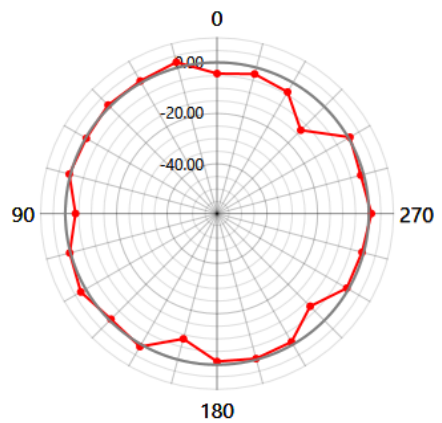
**2D XY Gain**  
5150 MHz, Theta= 120°, Phi= 210°, Max= 3.79 dBi



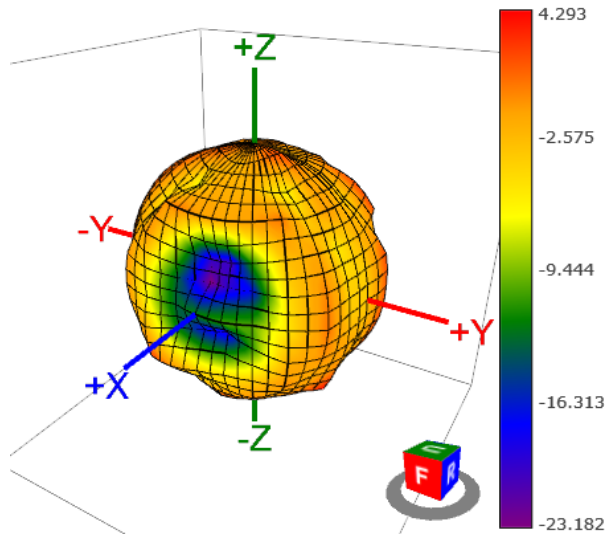
**2D XZ Gain**  
5150 MHz, Theta= 120°, Phi= 210°, Max= 3.79 dBi



**2D YZ Gain**  
5150 MHz, Theta= 120°, Phi= 210°, Max= 3.79 dBi

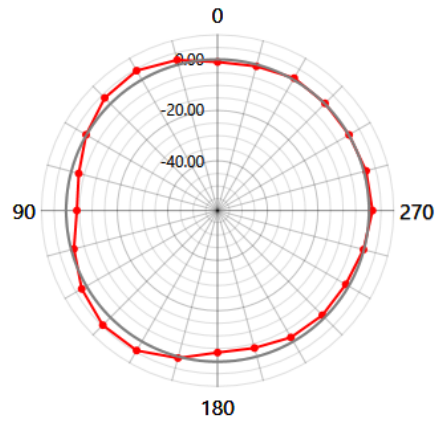


Frequency: 5450MHz



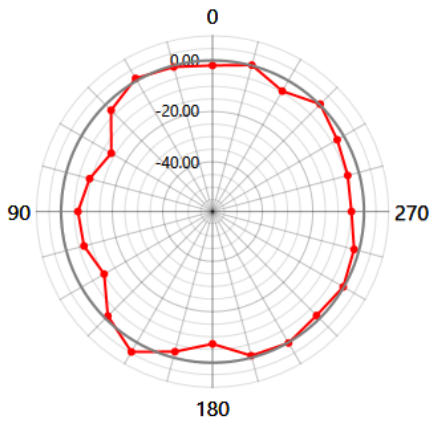
**2D XY Gain**

5450 MHz, Theta= 150°, Phi= 135°, Max= 4.29 dBi



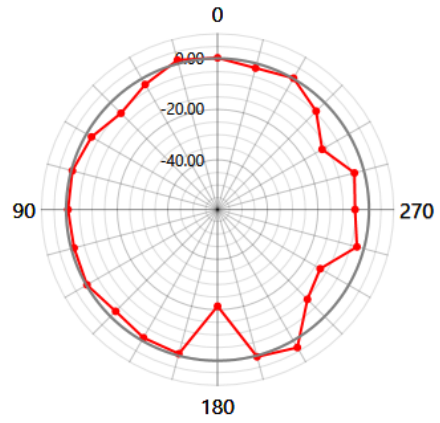
**2D XZ Gain**

5450 MHz, Theta= 150°, Phi= 135°, Max= 4.29 dBi



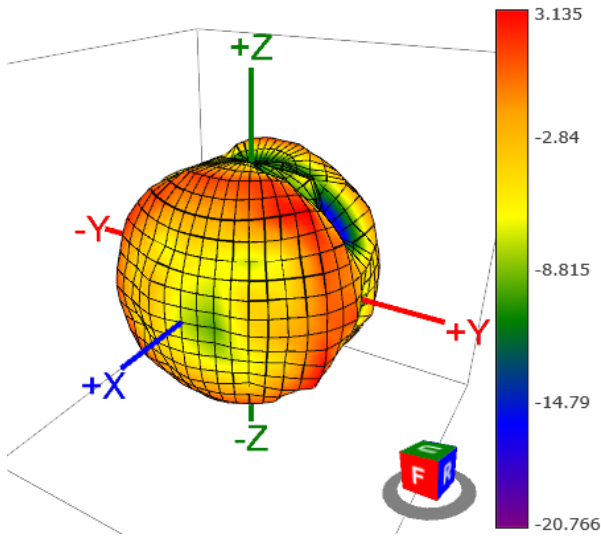
**2D YZ Gain**

5450 MHz, Theta= 150°, Phi= 135°, Max= 4.29 dBi

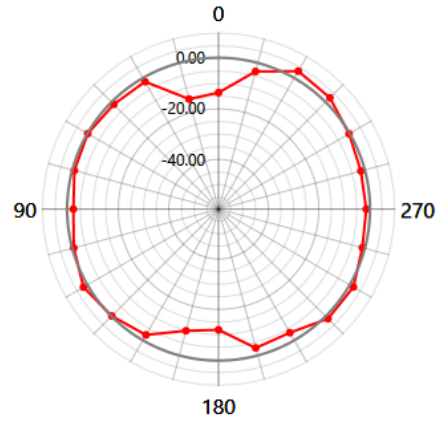




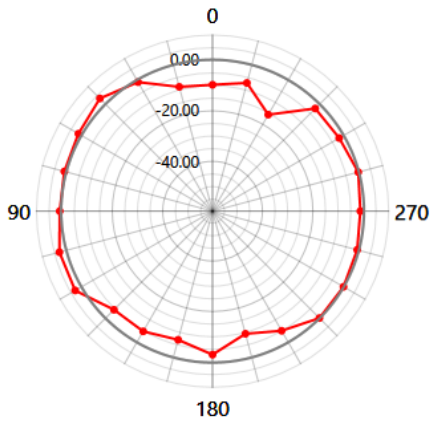
Frequency: 5850MHz



**2D XY Gain**  
5850 MHz, Theta= 45°, Phi= 330°, Max= 3.13 dBi



**2D XZ Gain**  
5850 MHz, Theta= 45°, Phi= 330°, Max= 3.13 dBi



**2D YZ Gain**  
5850 MHz, Theta= 45°, Phi= 330°, Max= 3.13 dBi

