



# SPECIFICATION

## 5G NTN – L Band Patch Antenna



**Model No. : UPH5NL02**



## 1. General Description

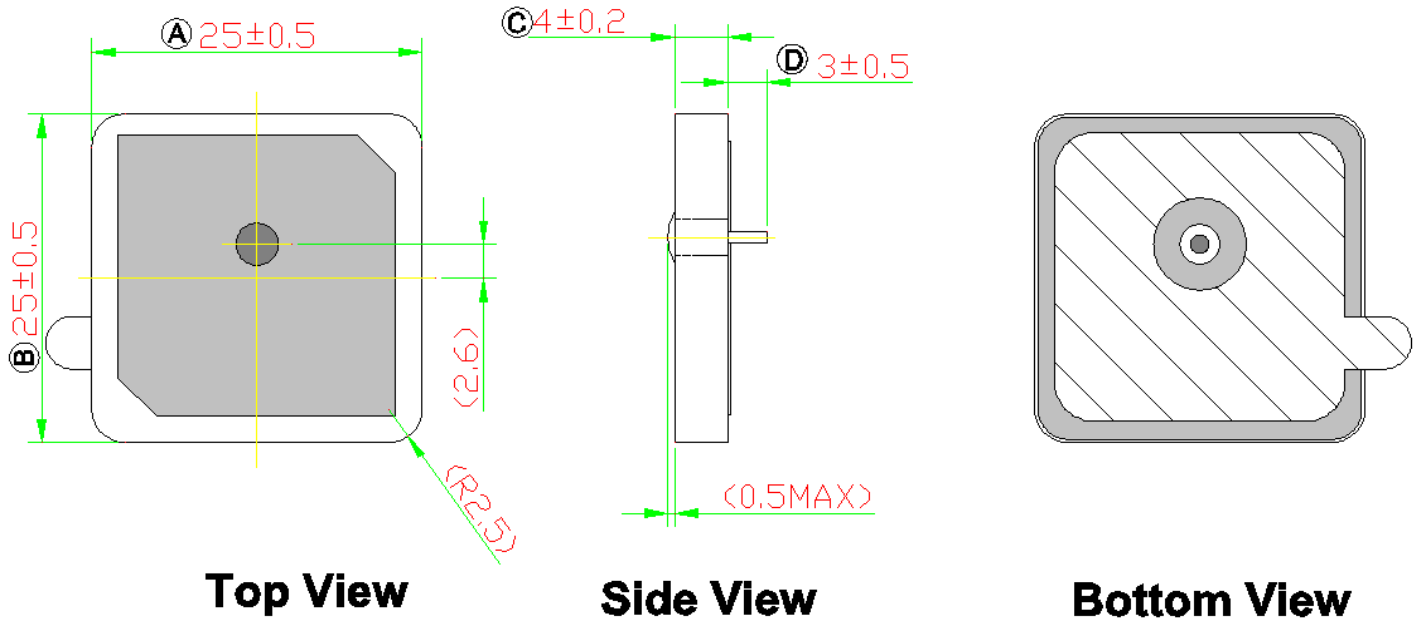
### 1.1 Electrical Properties

Parameter	Description
Application	5G NTN - L band
Frequency Band	1525~1559 MHz 1626~1660 MHz
Nominal Impedance	50 Ohm
Polarization	RHCP
※With 70 x 70 mm GND Plane	

### 1.2 Mechanical Properties

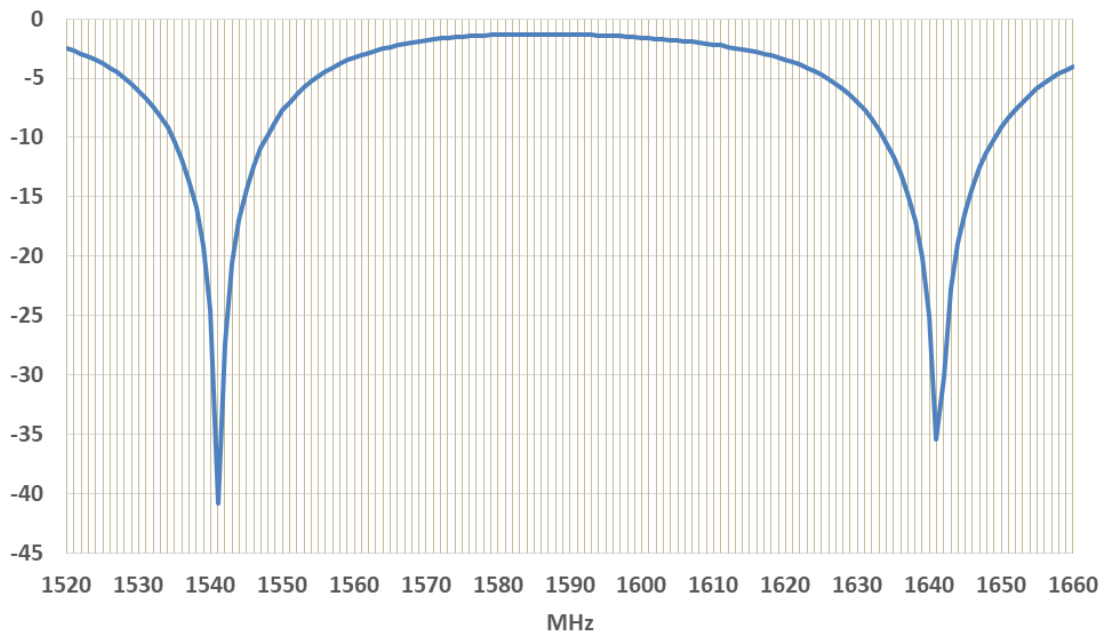
Parameter	Description
Dimensions	25*25*4 mm
Operating Temperature	-40°C~85°C
Storage Temperature (With Packing Sealed)	-5°C~40°C

## 2. Appearance (Unit : mm)



## 3. Performance

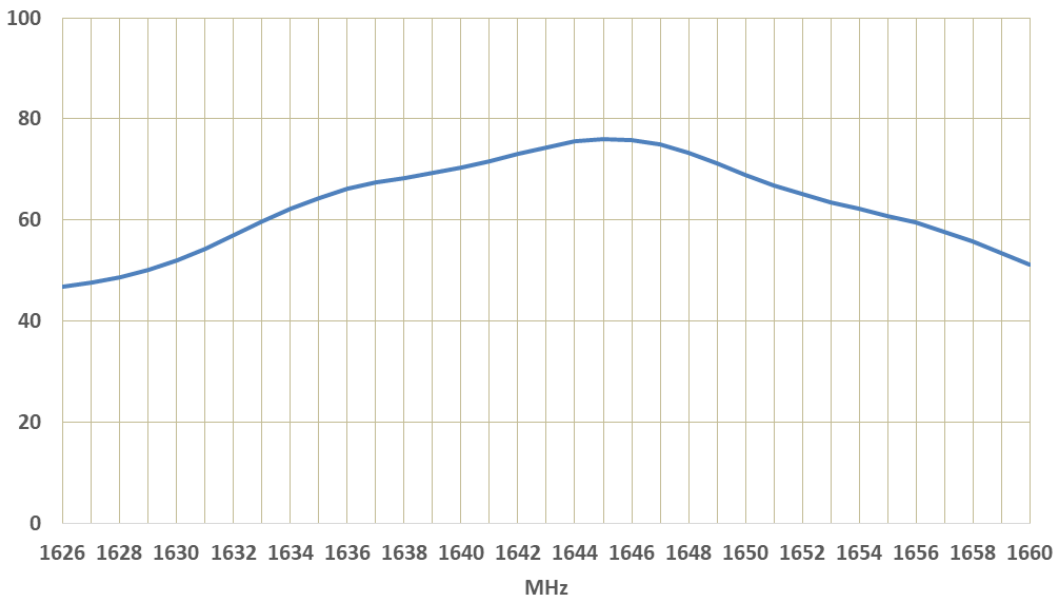
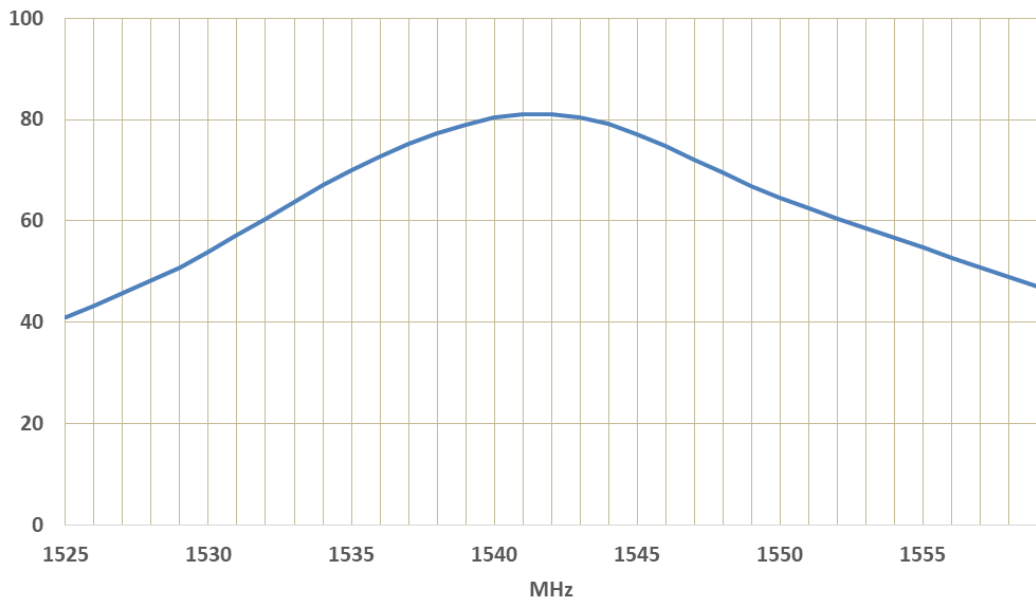
### 3.1 Return Loss (dB)





### 3.2 Efficiency (%)

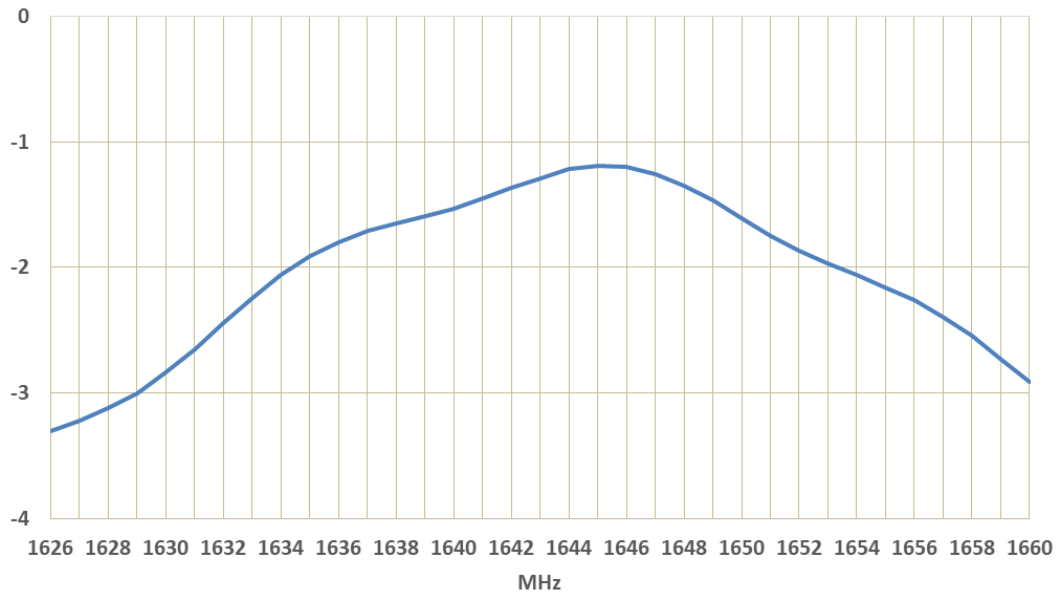
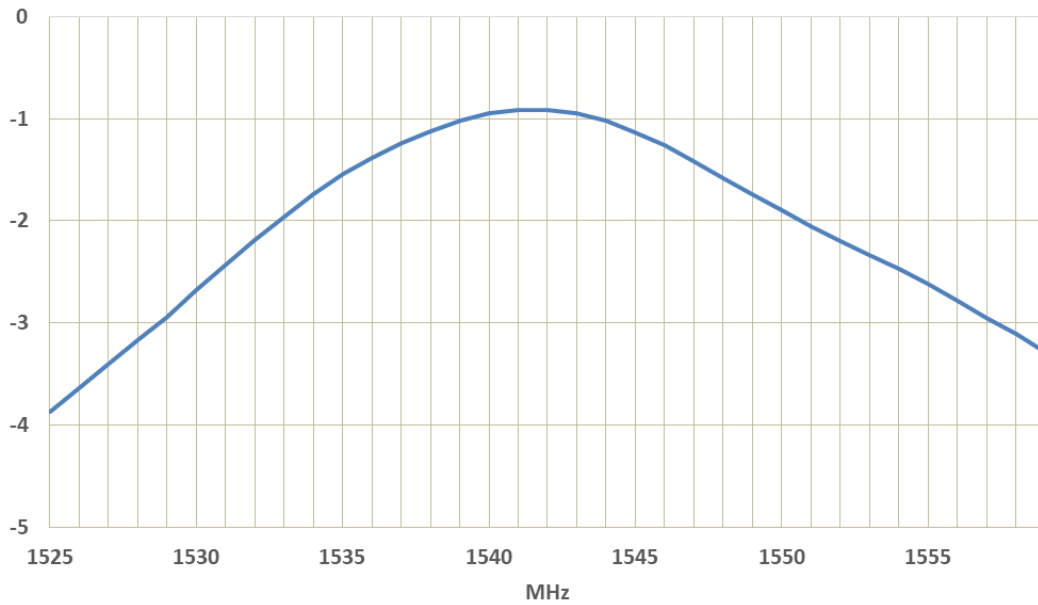
<b>Frequency</b>	1542 MHz	1643 MHz
<b>Efficiency</b>	81.1 %	74.4 %





### 3.3 Average Gain (dBi)

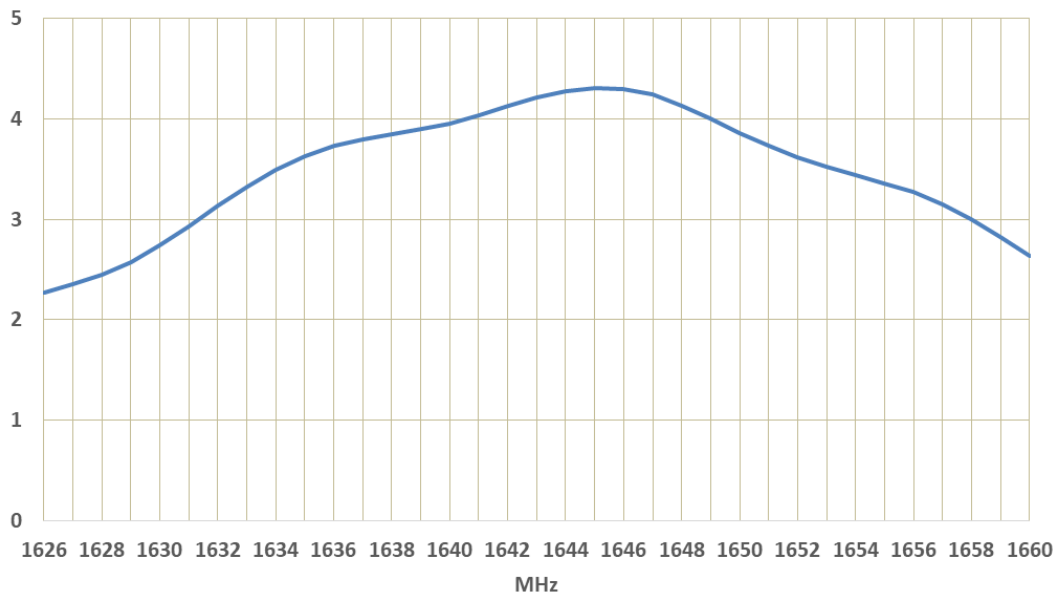
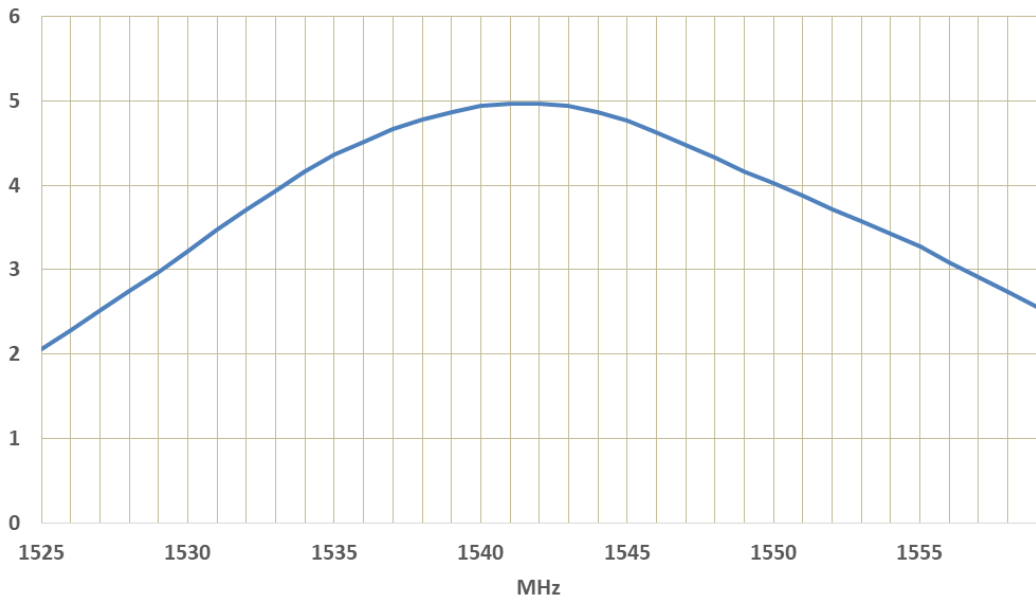
<b>Frequency</b>	1542 MHz	1643 MHz
<b>Average Gain</b>	-0.9 dBi	-1.3 dBi



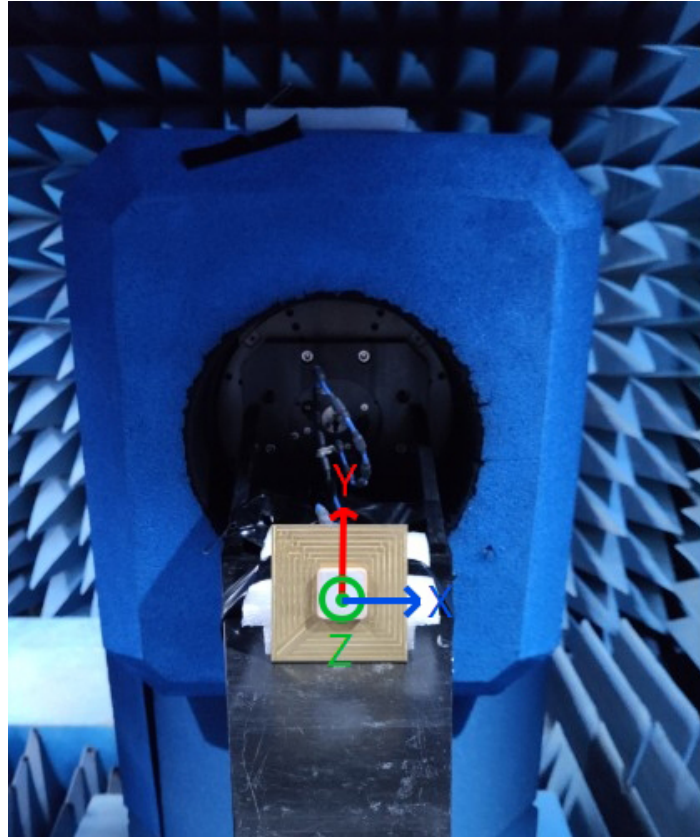


### 3.4 Peak Gain (dBi)

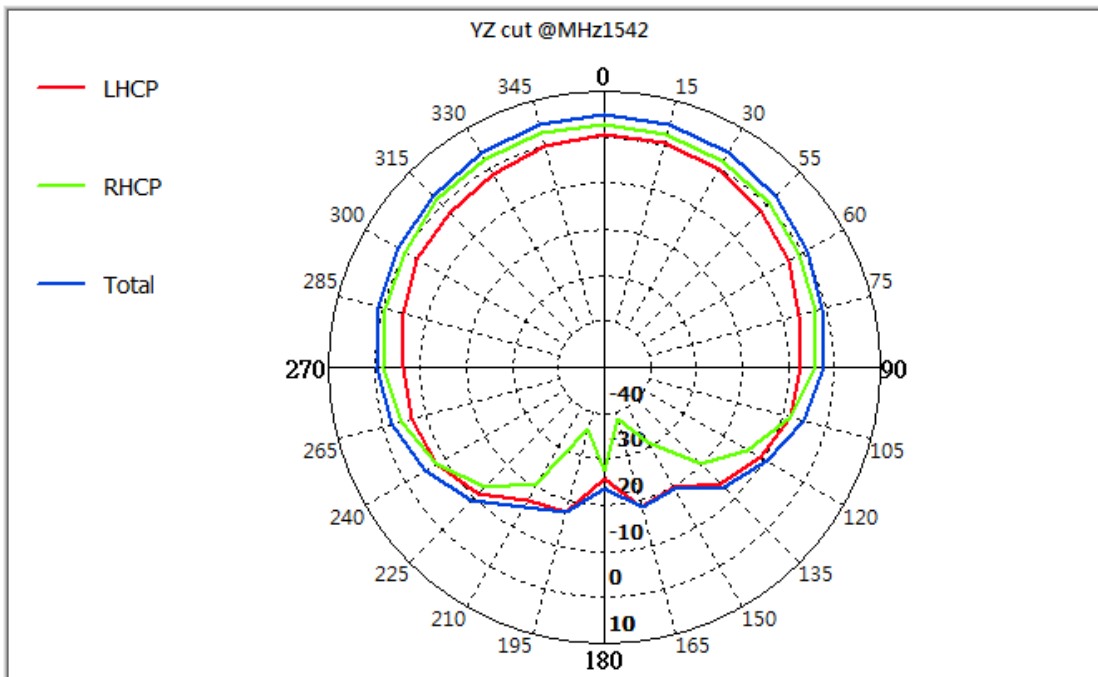
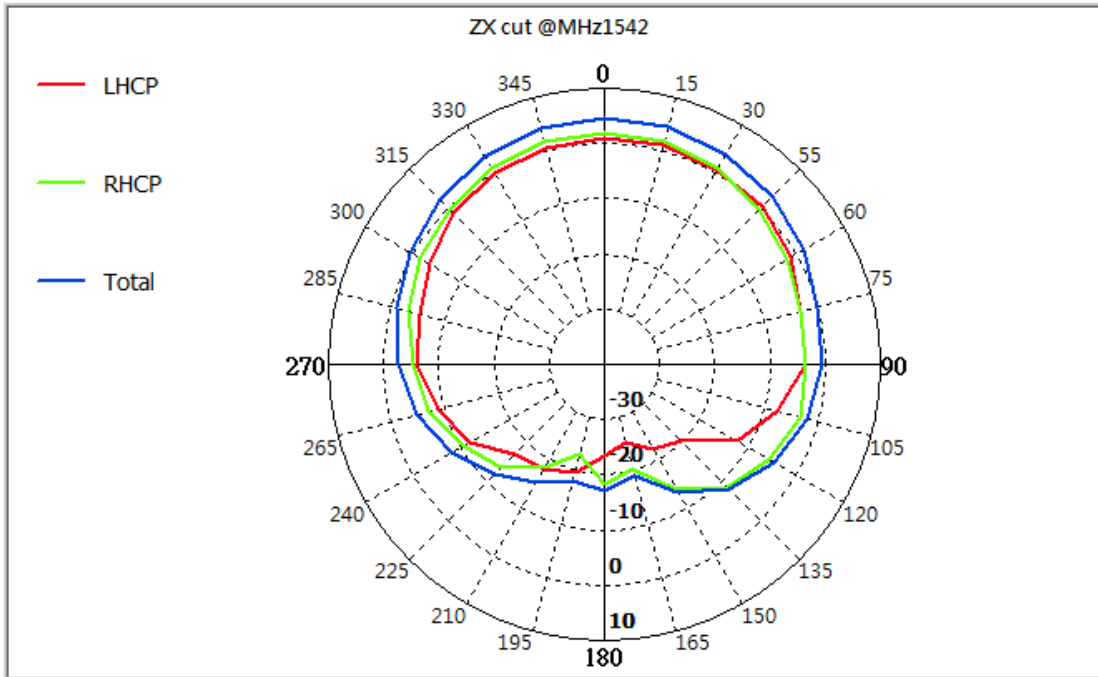
<b>Frequency</b>	1542 MHz	1643 MHz
<b>Peak Gain</b>	5.0 dBi	4.2 dBi



### 3.5 2D Radiation Pattern



1542MHz (Unit : dBi)





1643MHz (Unit : dBi)

