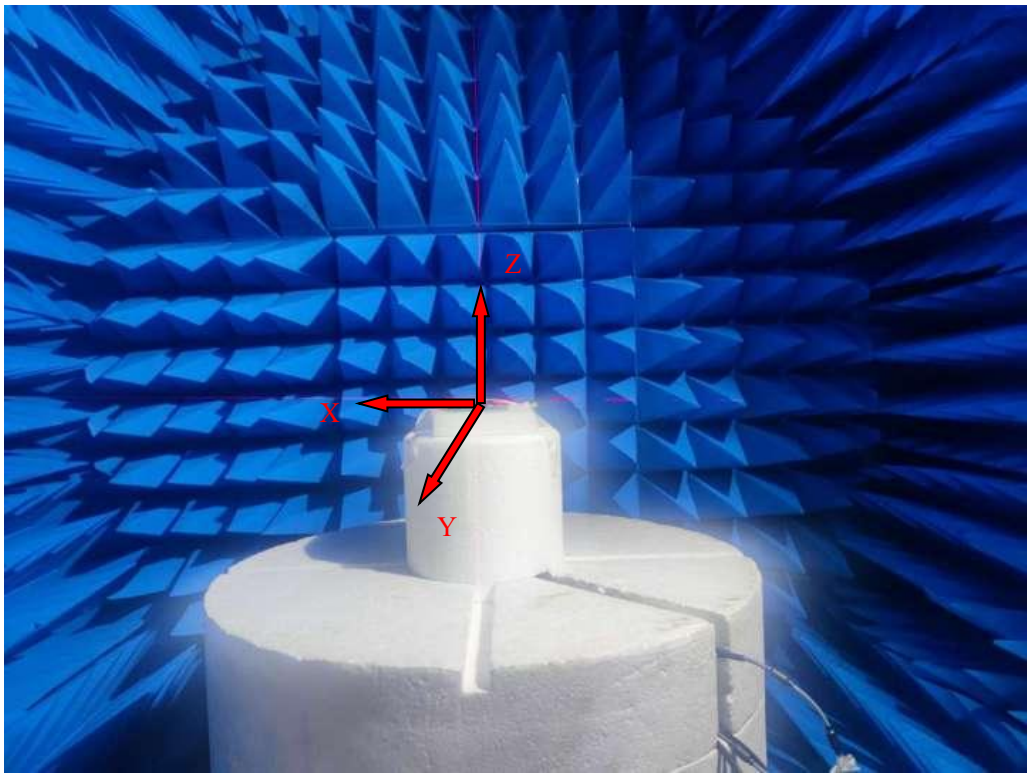


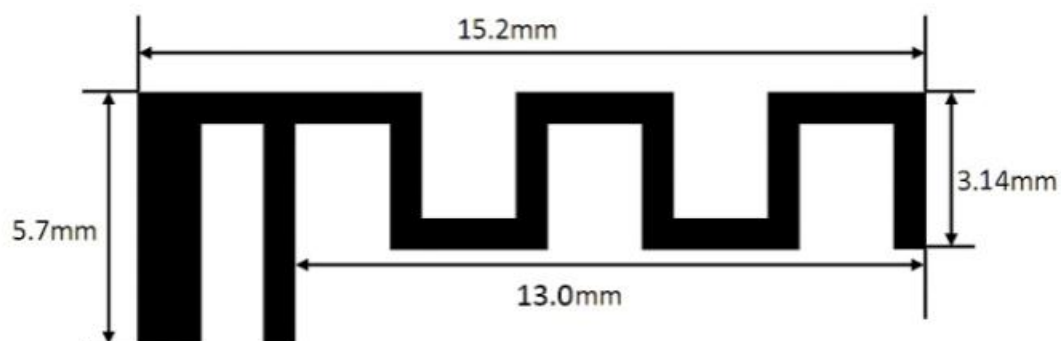
Manufacturer: Shenzhen Xusen Supply Chain Management Co., Ltd.
Address: Room 208. Building B. No. 7. Yuzhan 2nd Road Dashuitian
Community, Guanlan Subdistrict, Shenzhen, Guangdong, China

WiFi Antenna Specification

SPECIFICATIONS	
Frequency (MHz)	2400-2480
Peak Gain (dBi)	2.27 (Max)
Average Gain (dBi)	>0
VSWR	<1.9
Impedance (Ω)	50Ω
Antenna Type	PCB antenna
Polarization	Linear



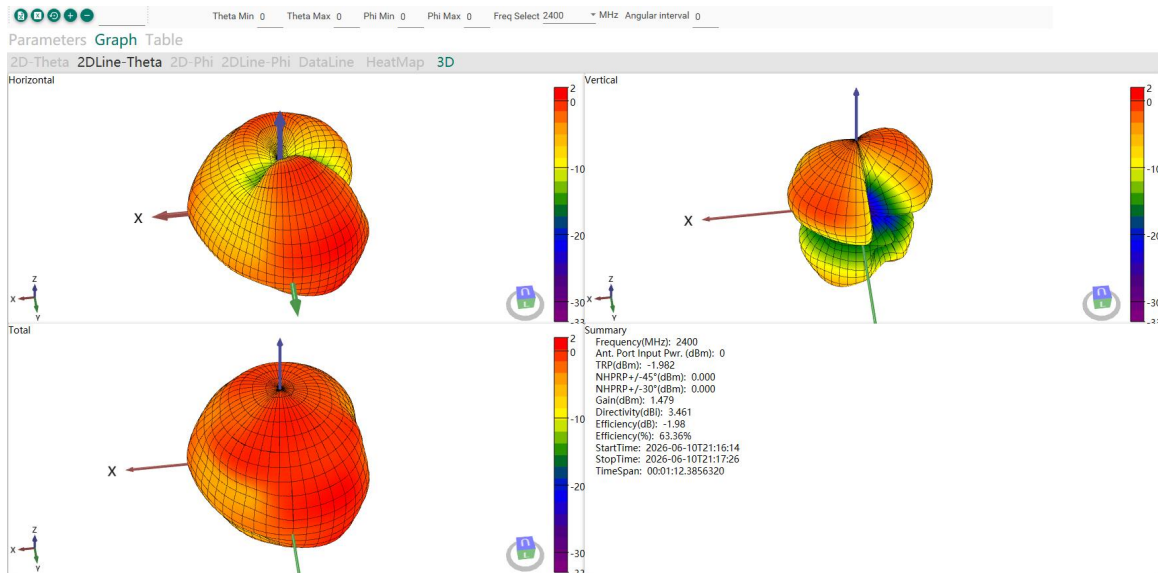
Antenna Photo & Length (mm)



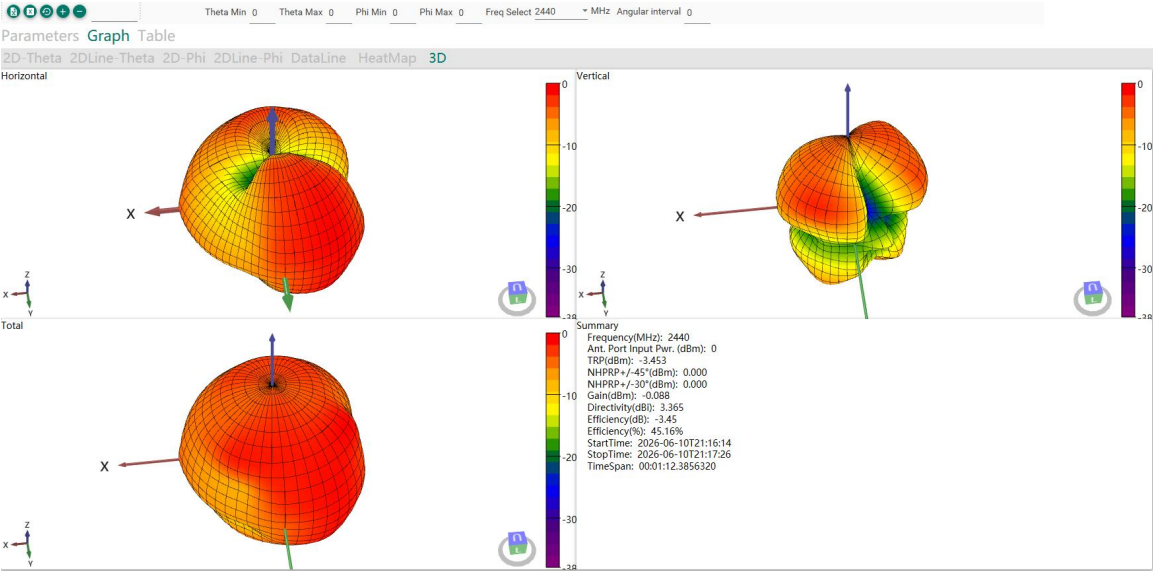
Antenna efficiency and gain

Frequency (MHz)	Gain (dBi)	Efficiency (%)	AverageGain (dBi)	Efficiency (dB)
2400	1.48	63.36%	-2.73	-1.98
2410	1.25	57.22%	-3.40	-2.43
2420	0.60	54.48%	-3.43	-2.64
2430	-0.06	48.04%	-3.91	-3.18
2440	-0.09	45.16%	-4.20	-3.45
2450	0.36	49.24%	-3.56	-3.08
2460	1.08	54.75%	-3.10	-2.62
2470	1.55	54.67%	-2.97	-2.62
2480	2.27	64.19%	-2.25	-1.93
Average	0.94	54.57%	-3.28	-2.66
Peak	2.27	64.19%	-2.25	-1.93

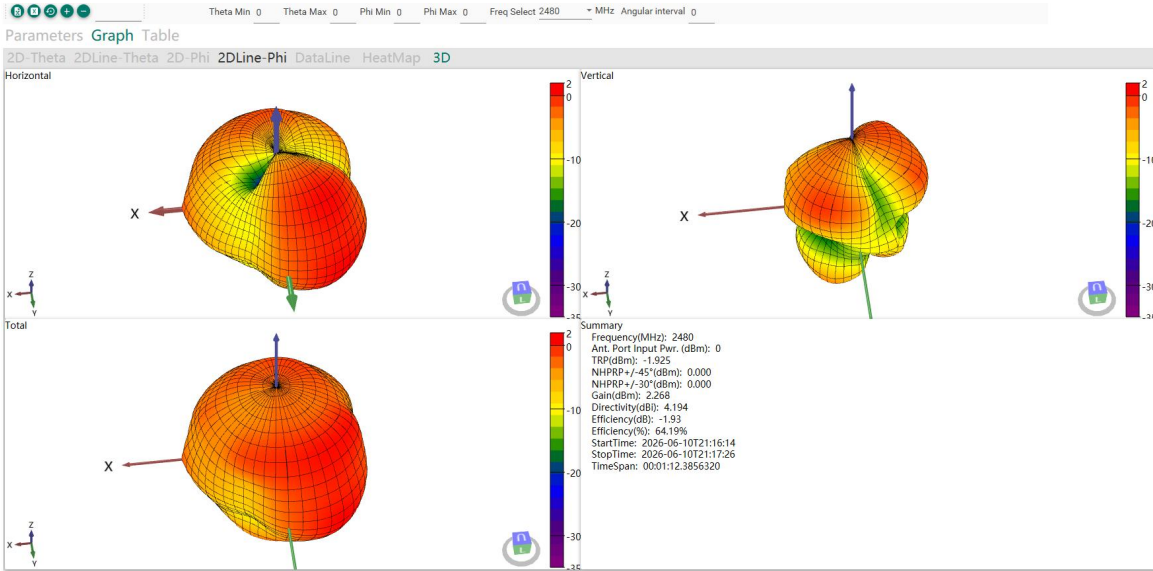
2400MHz 3D-Total Pattern



2440MHz 3D-Total Pattern



2480MHz 3D-Total Pattern



Bluetooth Antenna Specification

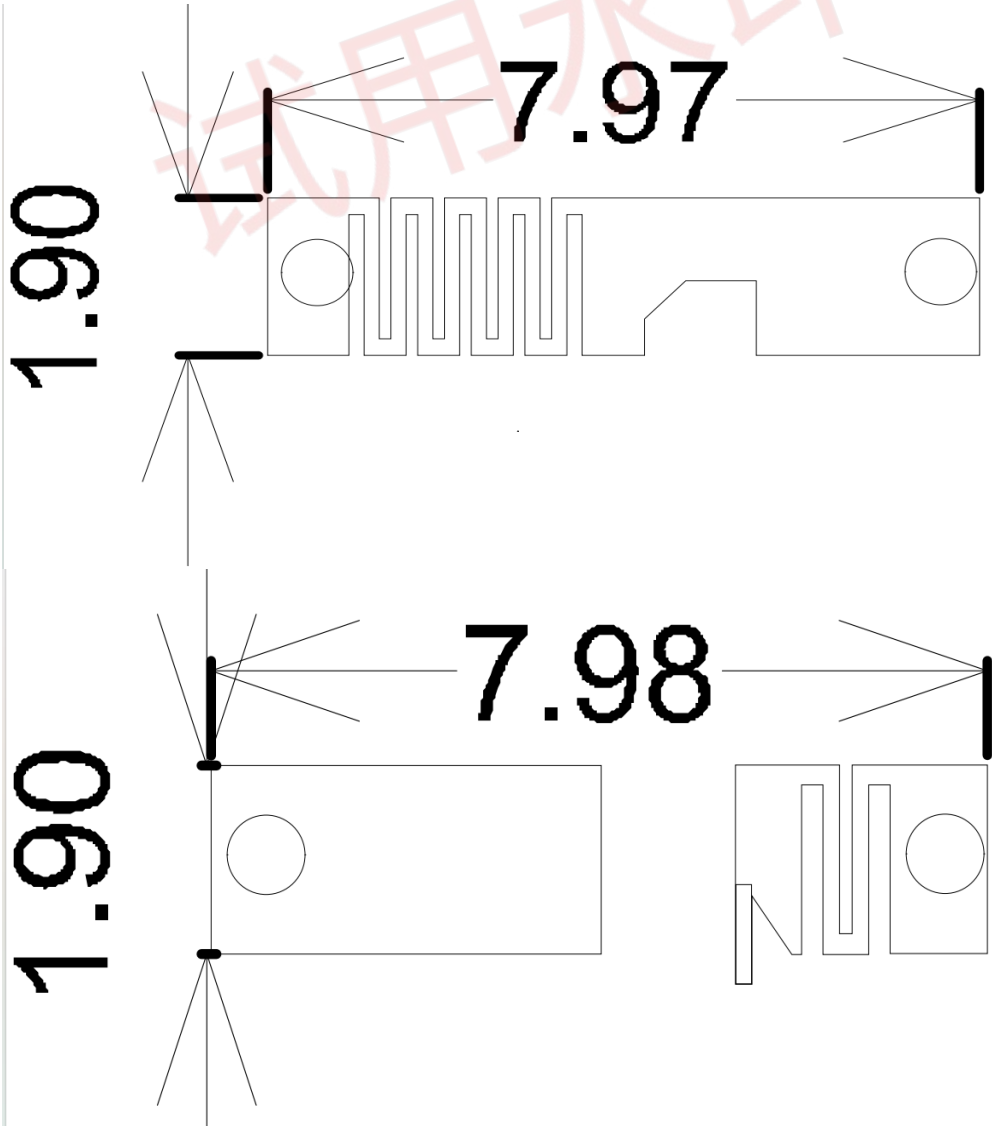
Summary

ITEM	ANT SPEC					
Model Name	2.4G ANT					
Center Frequency	Horizontal			Vertical		
	2400MHz	2400MHz	2500MHz	2400MHz	2400MHz	2500MHz
	-1.26dBi	-0.76dBi	-0.58dBi	-5.25dBi	-2.46dBi	-1.86dBi
MAX. Gain	-0.58dBi					
Polarization	Horizontal and Vertical					
Azimuth Beam Pattern	Omni-directional					
Impedance	50 Ohm					
Antenna Length	38.20mm					
Manufacture	Shenzhen Xusen Supply Chain Management Co., Ltd.					

Address: Room 208.Building B.No. 7.Yuzhan 2nd Road Dashuitian Community,Guanlan Subdistrict, Shenzhen,Guangdong, China

Antenna type: PCB Antenna

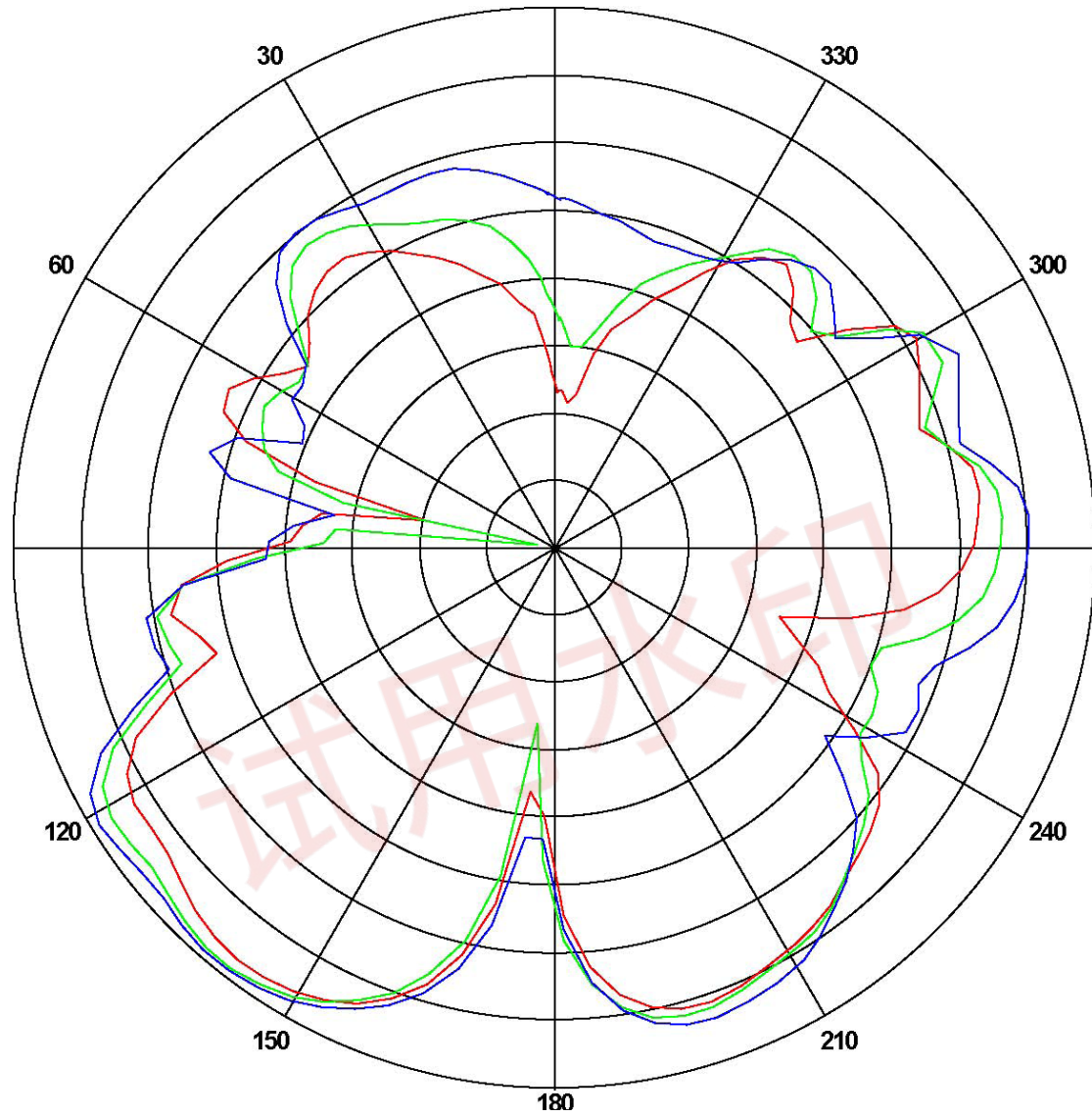
Antenna Photo & Length (mm)



Horizontal: 2400 MHz 2450 MHz 2500 MHz

Power (dBm)

Max: 0 Min: -40 Scale: 5/div

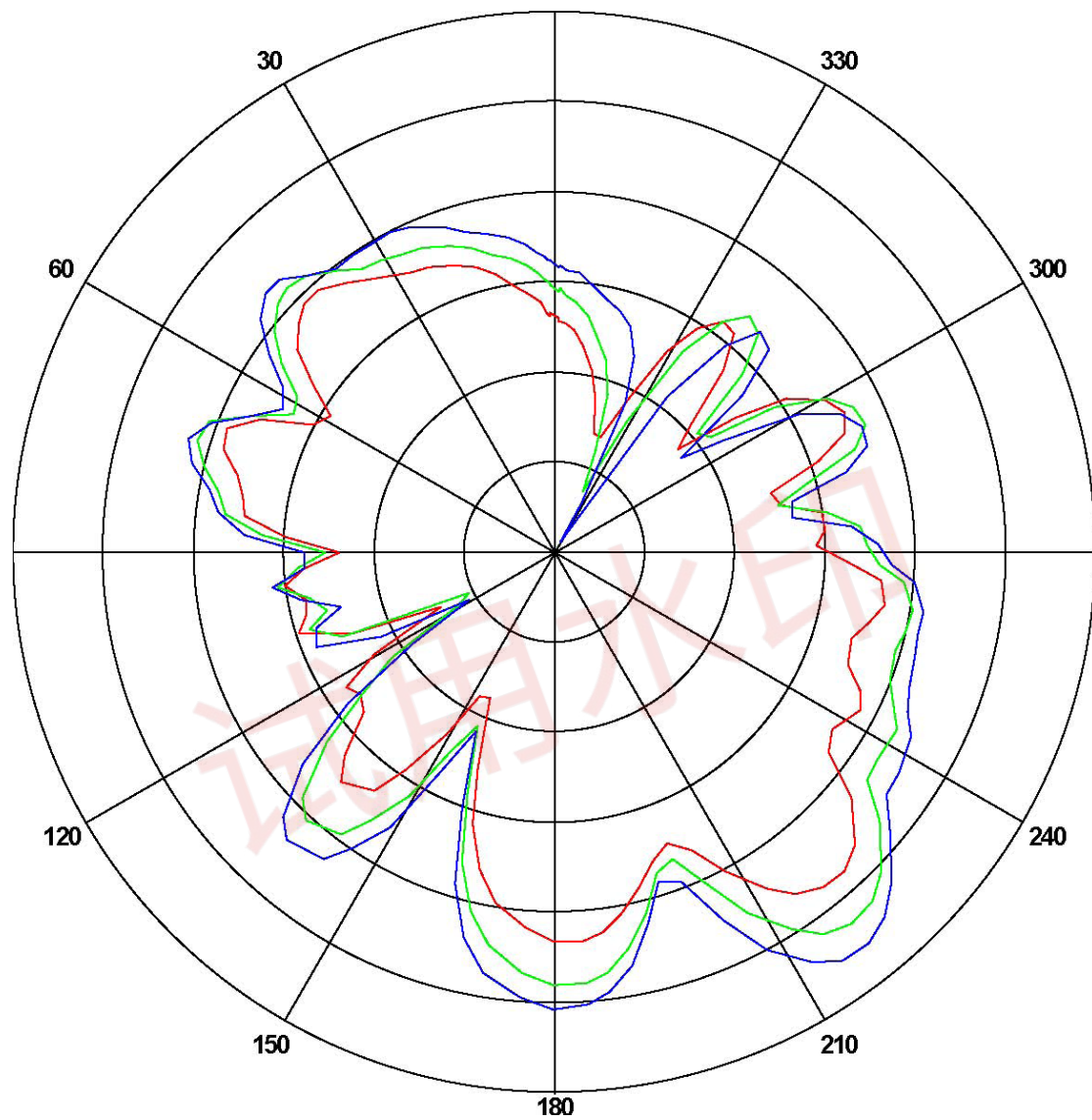


Frequency (MHz)	Gain(dBi)		
	Max	Min	Avg
2400	-1.26174	-30.0801	-7.18716
2450	-0.765802	-36.5604	-7.48023
2500	-0.585582	-22.0315	-6.59127

Vertical: 2400 MHz 2450 MHz 2500 MHz

Power (dBm)

Max: 0 Min: -30 Scale: 5/div



Frequency (MHz)	Gain(dBi)		
	Max	Min	Avg
2400	-5.2537	-22.1424	-12.4294
2450	-2.4652	-24.5837	-10.4702
2500	-1.86120	-29.5214	-9.20432