



深圳市昱晟通讯设备有限公司

Yusheng Communications-equipment Co.,LTD

Xinli Communication

-E07-

Antenna debugging report

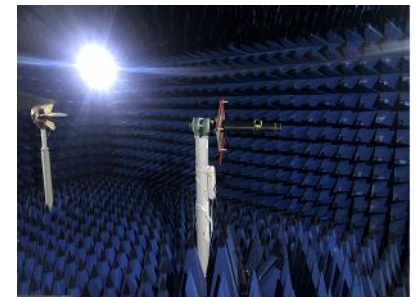
Radio Frequency: He Shiyin

Date:

2023-7-4

Contact information:

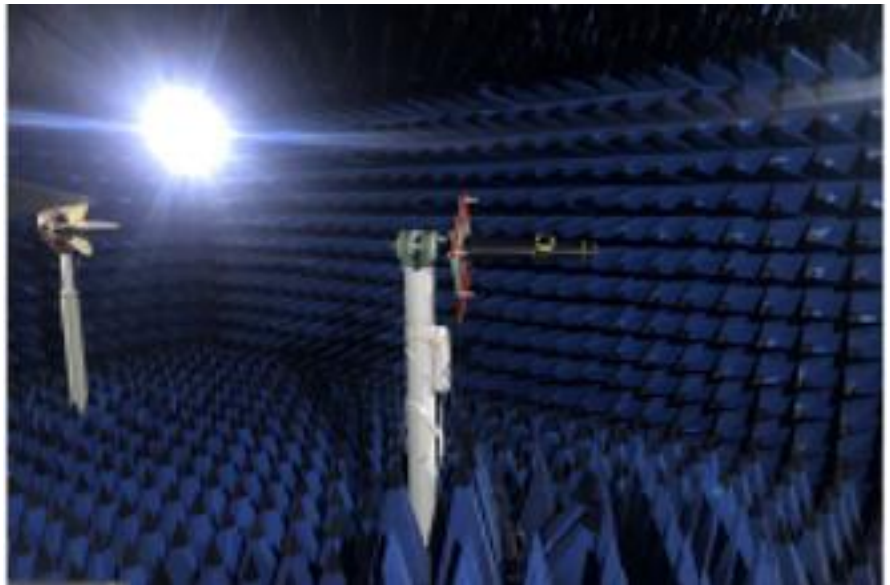
13823351625



development environment

We are from

The Internet era is moving towards the era of intelligence, and the country is building a digital society and a smart city. In the next 5-10 years, there will be huge development potential in both the consumer electronics market and the Internet of Things market. The field of wireless communication is very diversified, Yusheng in the future Relying on the advantages of the customer platform of the main antenna industry and its own comprehensive strength, Strive to provide customers with professional product solutions with market competitiveness.



Yusheng Communication's products cover almost all antenna applications of wireless terminal equipment, including automotive antennas, high-precision surveying and mapping antennas, drone ground and satellite data navigation, high-precision positioning antennas, medical equipment wireless transmission, consumer antennas (mobile phone antennas, PAD, laptop antennas), base station/indoor distribution antennas, smart wearable antennas

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Introduction to project debugging

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Passive parameters of antenna

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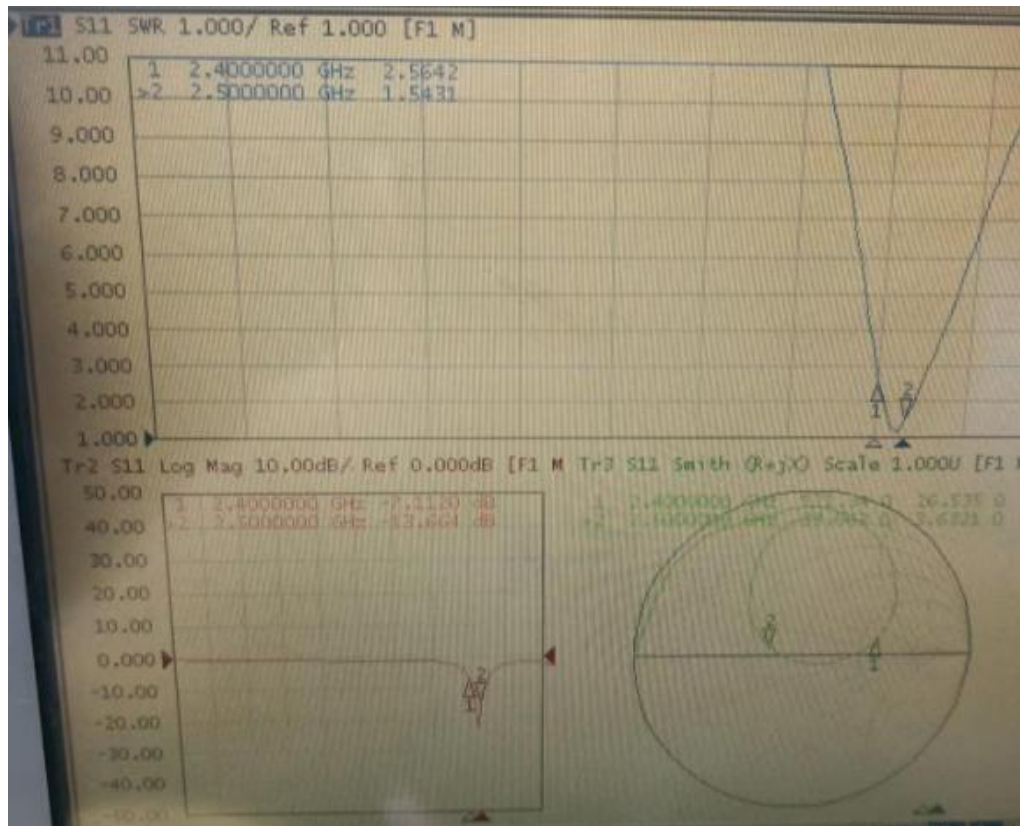
Antenna active parameters

Introduction to project
debugging

Trigger mechanism Mould	Bluetooth earphone		
Board Mould	Motherboard		
Frequency band and antenna material	Main antenna	Repeatedly Stage	Timber Nature
		2400MHz-2500MHz	FPC
Performance requirements	Execute according to the customer's requirements		

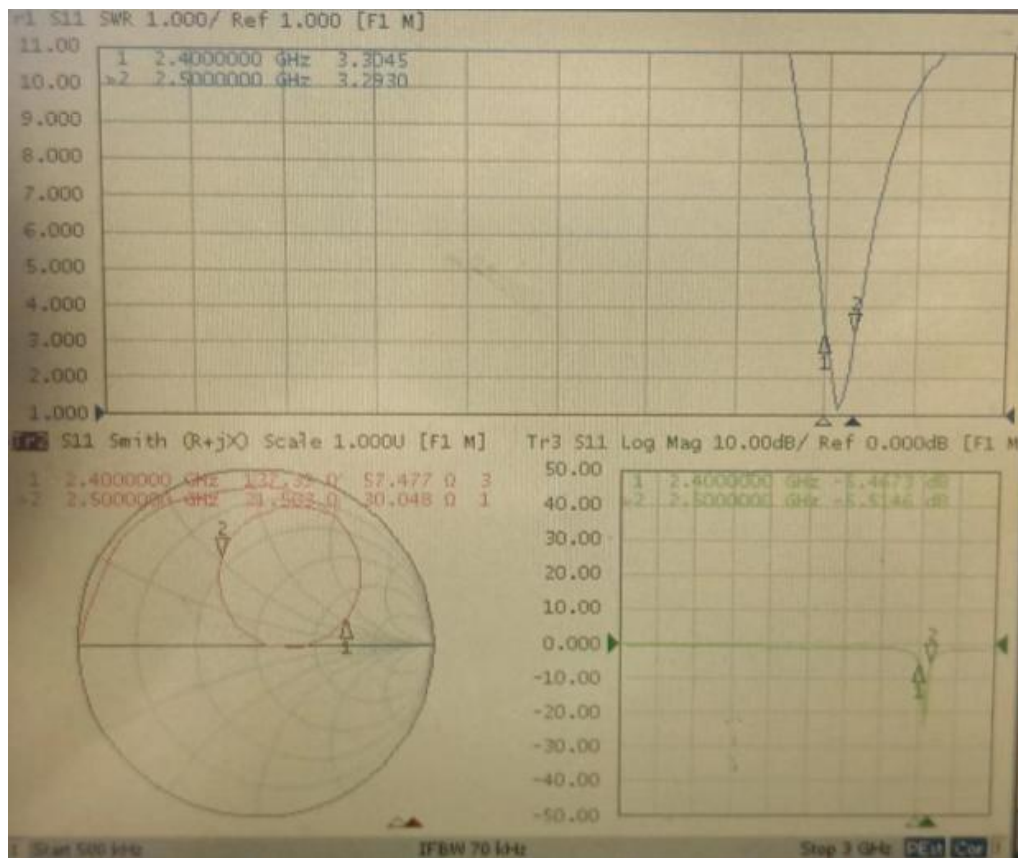
Passive data of the left
ear antenna

Freq	Effi (%)	Gain (dBi)
2400.0	20.47%	-2.46
2410.0	21.52%	-2.64
2420.0	22.81%	-2.70
2430.0	23.67%	-1.69
2440.0	23.55%	-0.82
2450.0	22.39%	0
2460.0	21.45%	-1.30
2470.0	20.28%	-1.81
2480.0	19.66%	-1.92
2490.0	18.26%	-2.08
2500.0	18.45%	-2.95

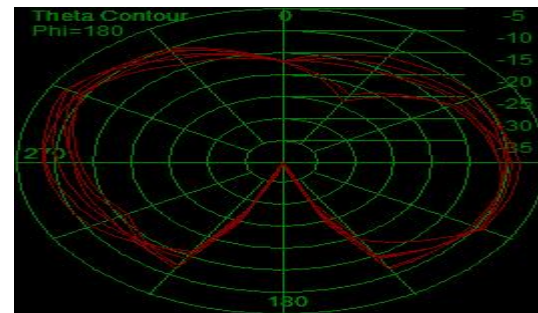
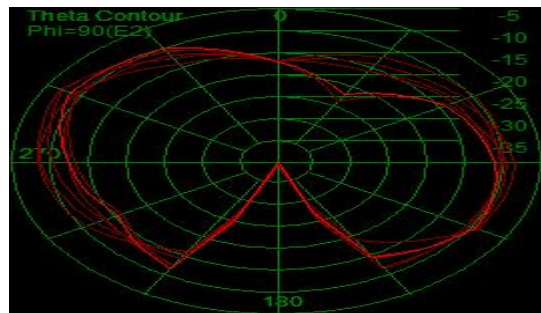
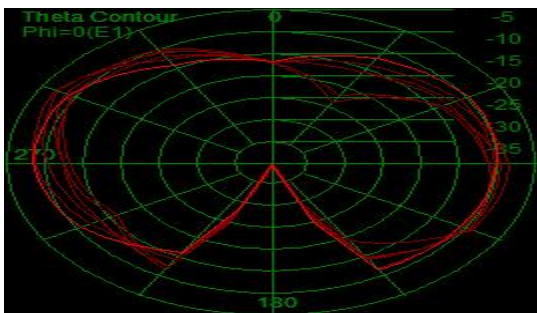
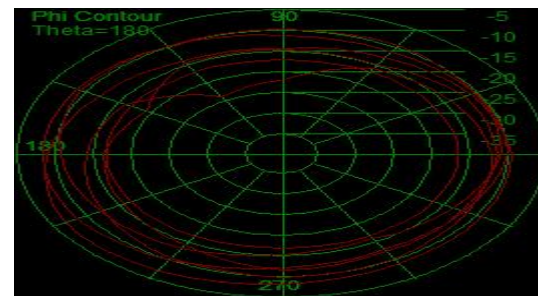
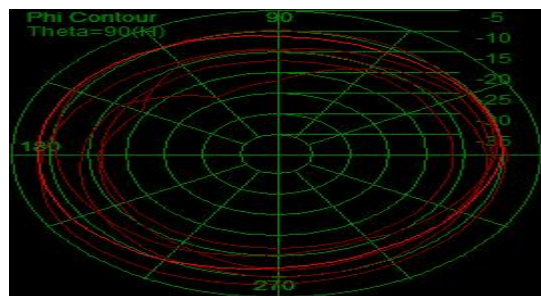
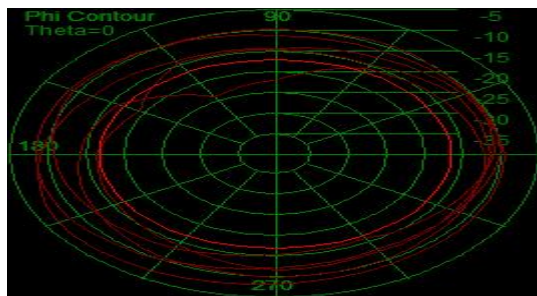
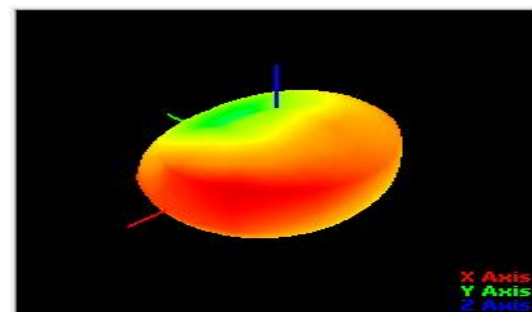
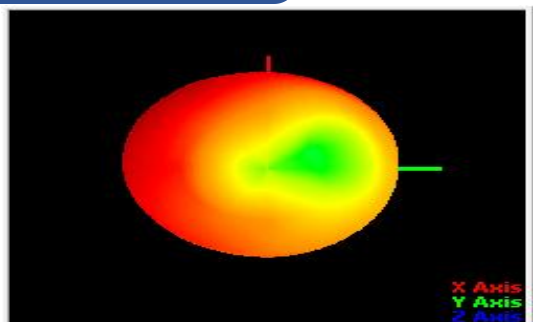
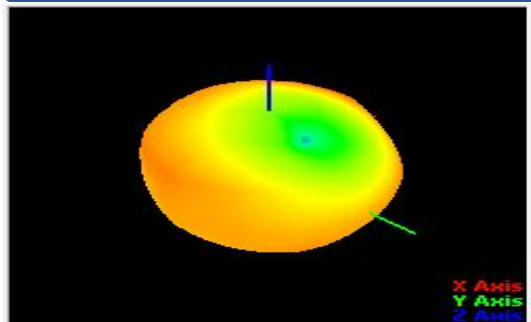


Right ear antenna passive data

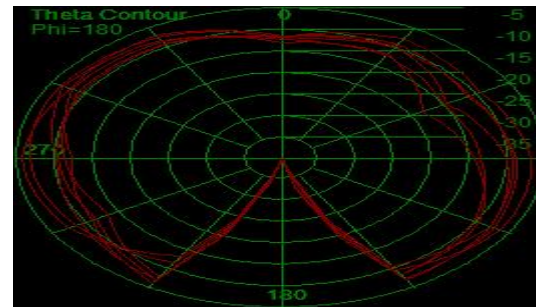
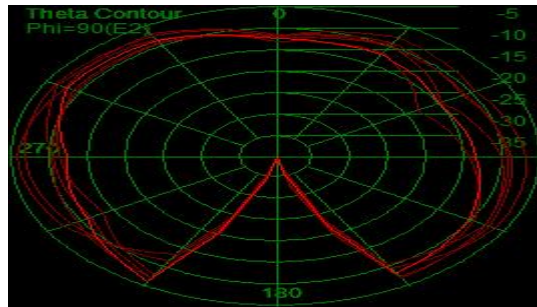
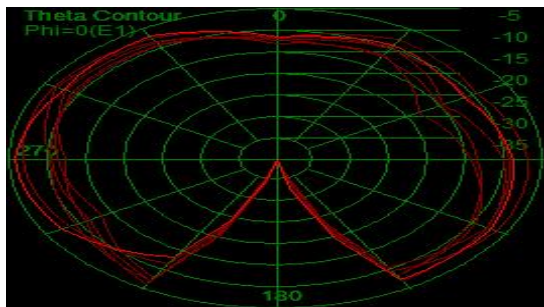
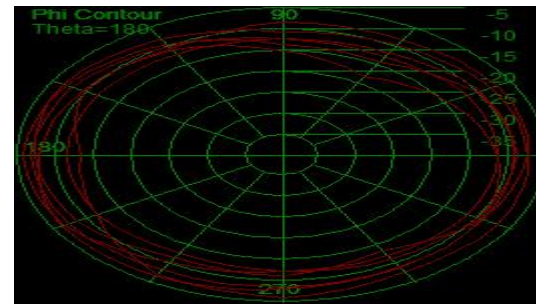
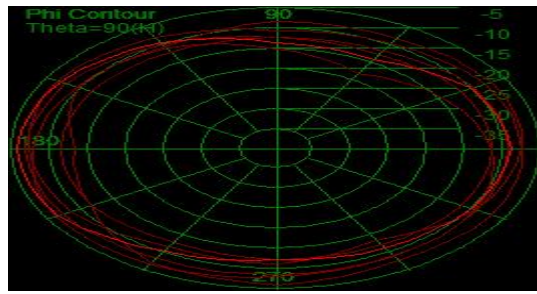
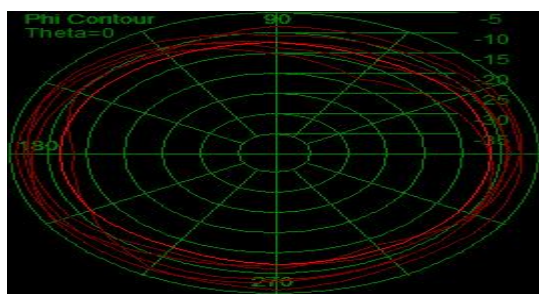
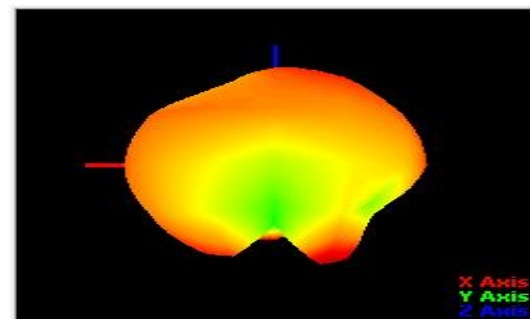
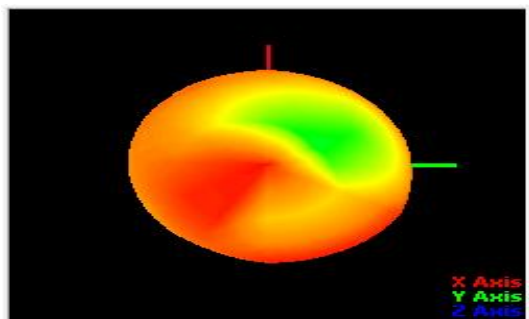
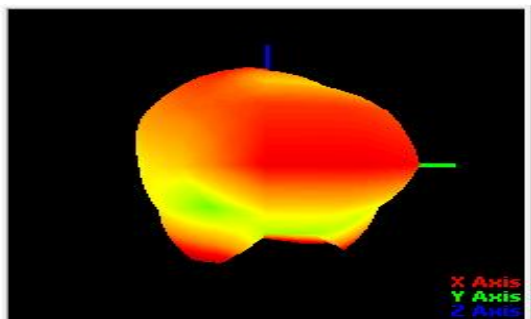
Freq	Effi (%)	Gain (dBi)
2400.0	20.13%	-2.17
2410.0	20.38%	-2.71
2420.0	21.16%	-1.96
2430.0	22.83%	-1.20
2440.0	23.25%	-0.43
2450.0	22.47%	0
2460.0	21.16%	-1.91
2470.0	20.45%	-2.47
2480.0	19.69%	-2.60
2490.0	18.55%	-2.18
2500.0	18.48%	-2.40



Passive parameters of left ear antenna
-Plan
/Direction map



Passive parameters of right ear antenna
-Plan
/Direction map

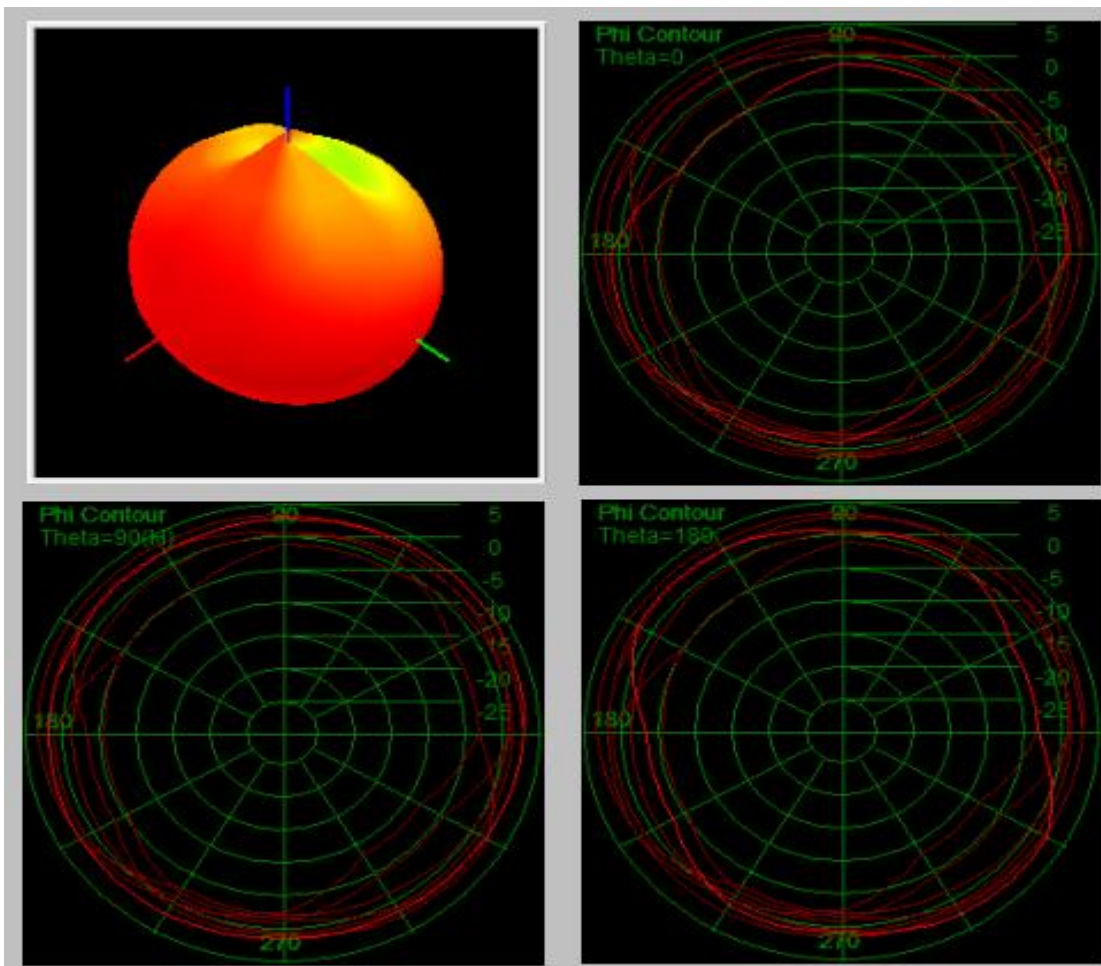


Antenna active parameters

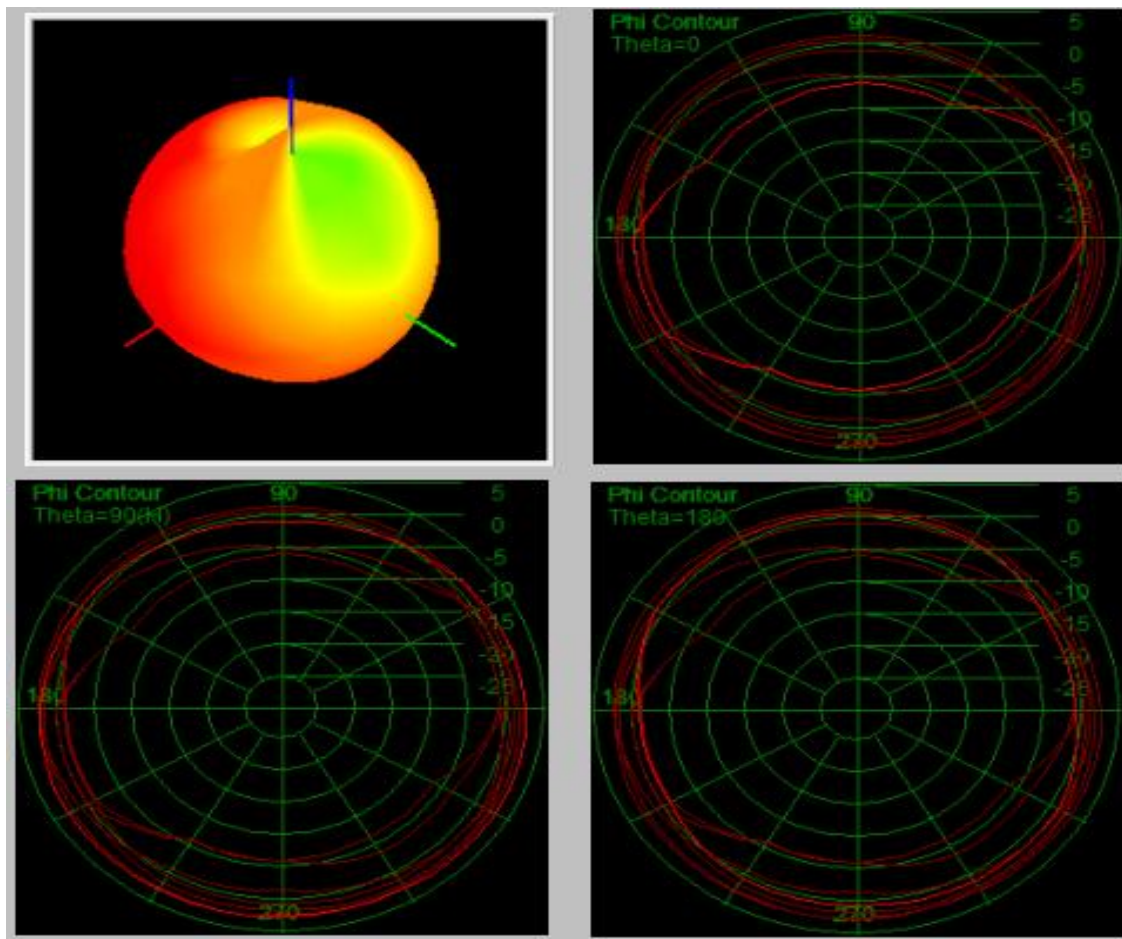
Channel No.	Free space test data/L	
	TRP (dBm)	TIS (dBm)
0	0.96	-81.96
39	0.60	-83.63
78	0.54	-82.10

Channel No.	Free space test data/R	
	TRP (dBm)	TIS (dBm)
0	0.68	-83.26
39	0.11	-83.26
78	0.82	-83.89

Large size
Antenna direction map
/Floor plan parameters



Antenna direction map
/Floor plan parameters



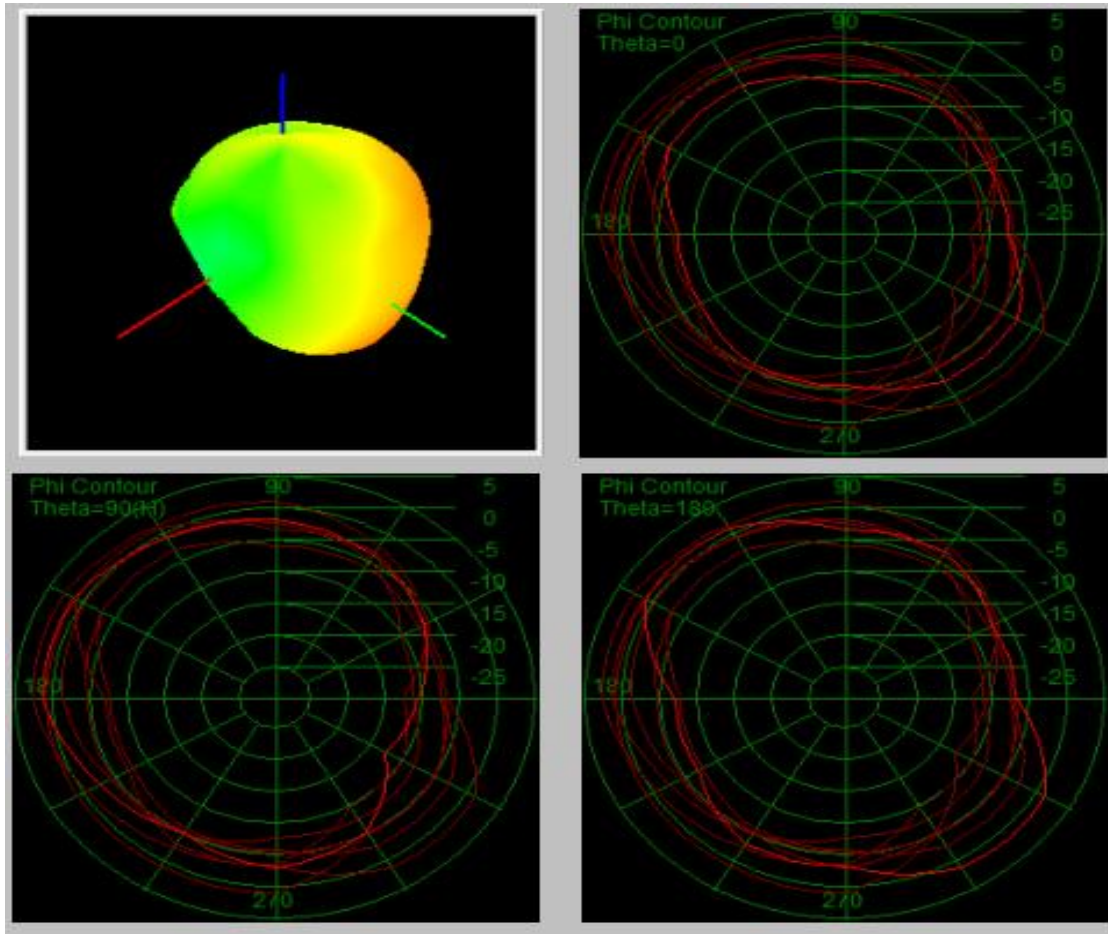
Antenna active parameters
-Head and ear

Channel No.	Head and ear test data/L	
	TRP (dBm)	TIS (dBm)
0	-3.63	-75.00
39	-4.05	-76.36
78	-4.91	-77.23

Channel No.	Head and ear test data/R	
	TRP (dBm)	TIS (dBm)
0	-3.09	-75.64
39	-3.80	-78.38
78	-4.76	-77.25

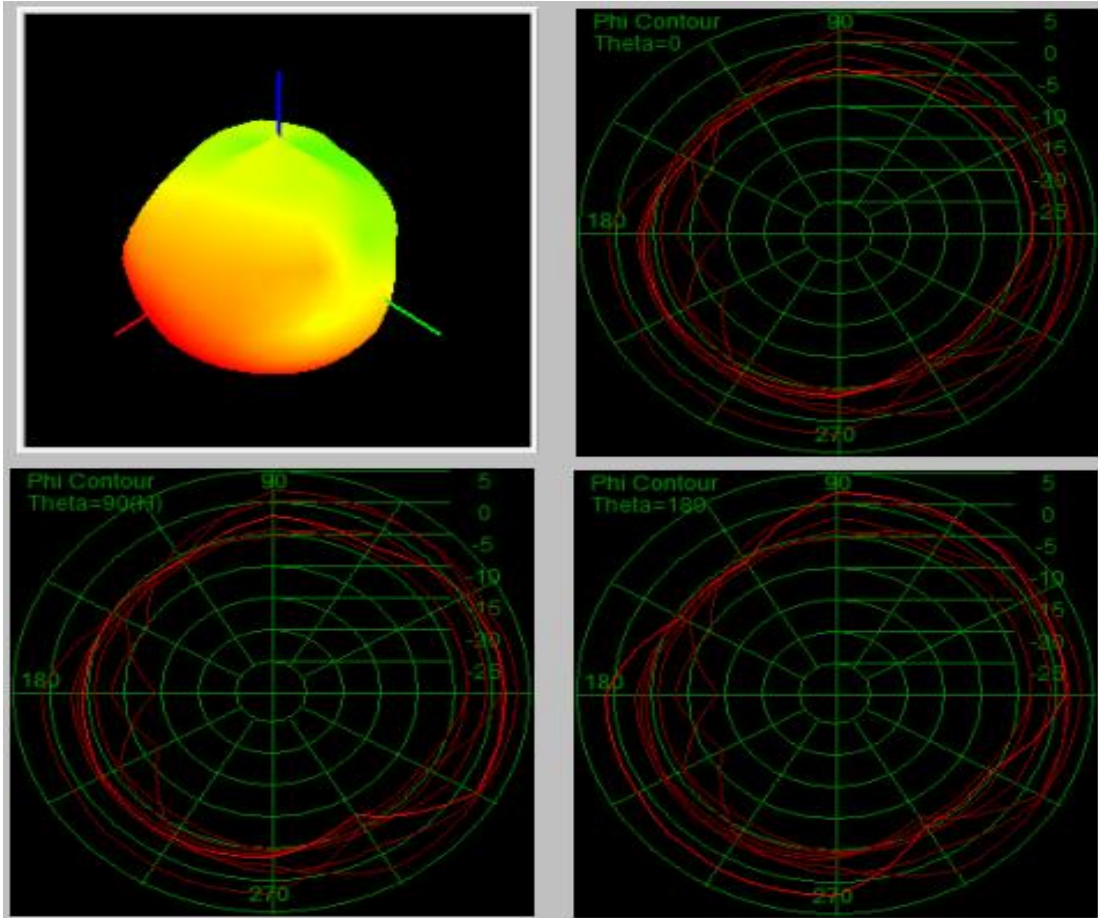
2#/L

Antenna direction map/Floor plan
parameters-Head and ear



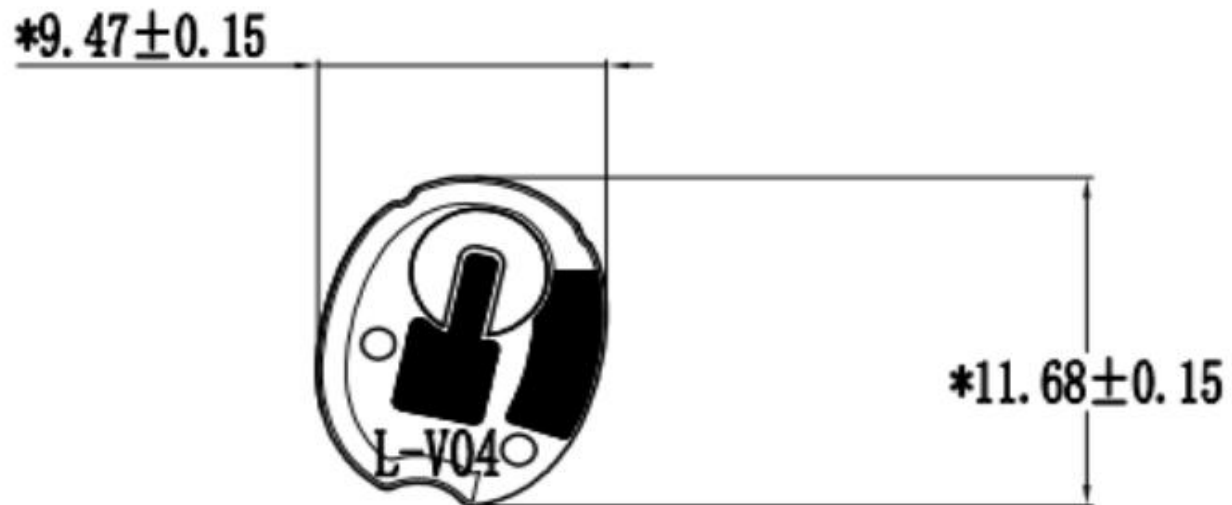
2#/R

Antenna direction map/Floor plan
parameters-Head and ear

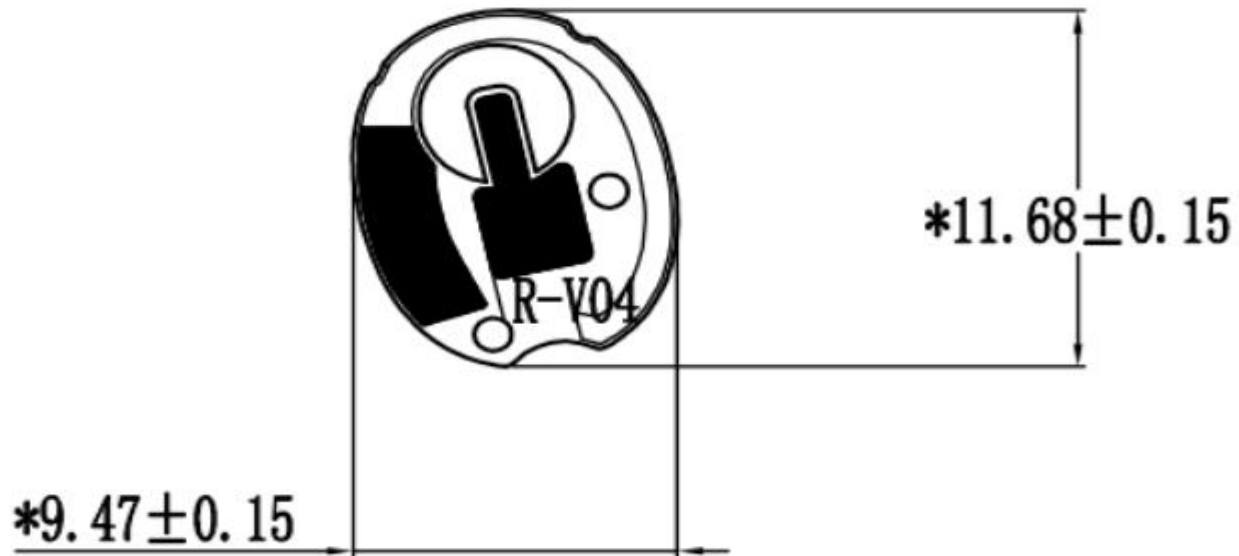


L

Antenna size drawing



R
Antenna size drawing



Thank you!



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2Ridge pole
4Building with more than one storey**

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