Shenzhen SKYLink Technology Co.,Ltd

Antenna Specification for Approval

Customer Name: _____

Product Name: BT Antenna

Part NO.: RasKars.BT

Write By: Damon Cui

Issued Date: 2026.06.22

Customer

R&D Dept	Business Dept	Approved By

SKYLink

R&D Dept	Engineer Dept	Approval

R & D Center：Room D 5th Floor Building L,Block E ,71 Baocheng District ,Baoan District ,Shenzhen
Factory：6 Floor,GangHuaXing Industrial Park,Rongshu Road 2nd ,Fuyong,Baoan ,shenzhen
Email:damoncui@tllskylink.com

Specification Summary

A. Electrical Characteristics	
Frequency	**2400MHz ~2500MHz**
VSWR	**<2.5**
Efficiency	**>20%**
Peak Gain	**0.76dbi**
Impedance	**50 Ohm**
Polarization	**Line**
B. Material & Mechanical Characteristics	
Material of Radiator	**Cu**
Cable Type	/
Connector Type	/
Dimension	At Attachment
Heat-durability	**280±5°C，10sec.**
C. Environmental Characteristics	
Operation Temperature	**- 20 °C ~ + 80 °C**
Storage Temperature	**- 30 °C ~ + 85 °C**

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● Test Equipment & Conditions

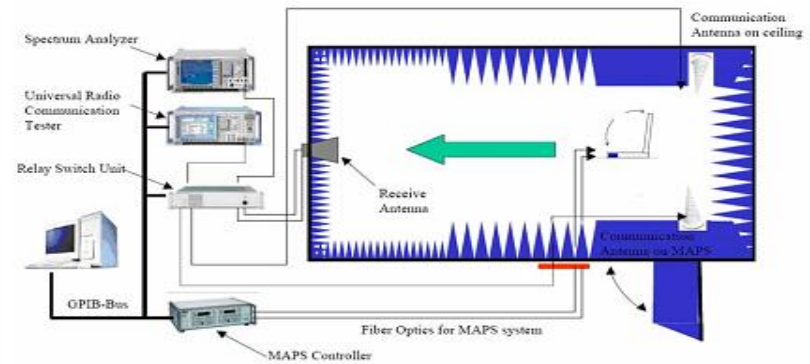
1. Network Analyzers :

Agilent 8753D 5071B

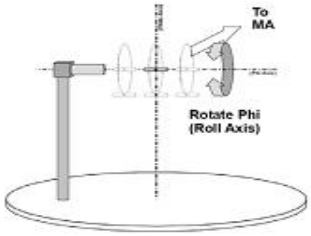
Communications Test Set:

Agilent E5515C CMW500

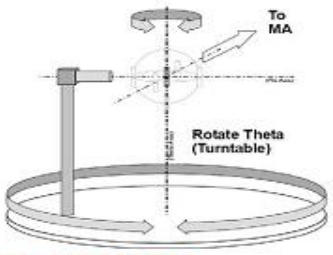
2. 3D Chamber Test System



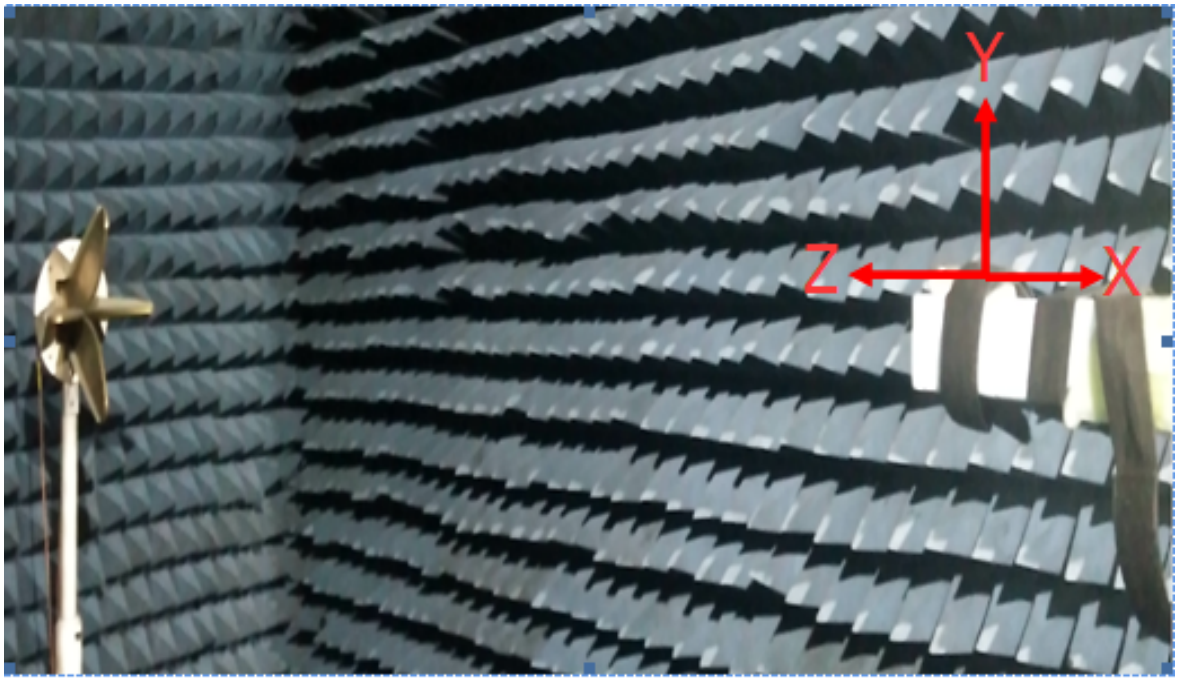
(Testing by 3D anechoic chamber)



Phi axis test



Theta axis test



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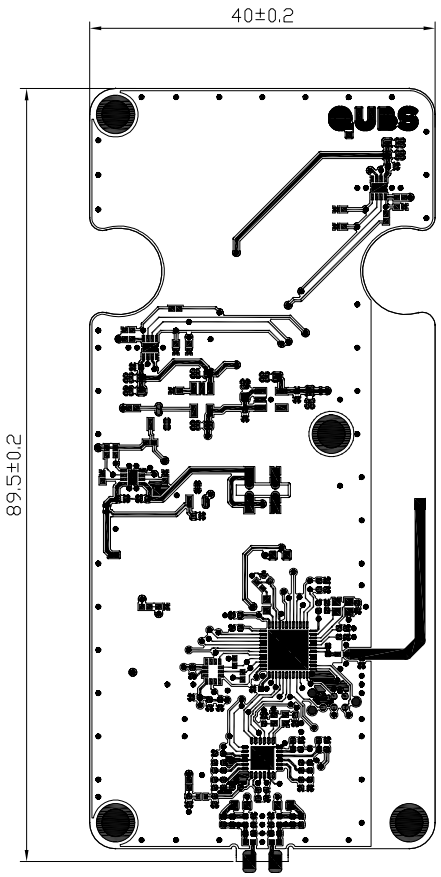
RoHS
Compliant
G P

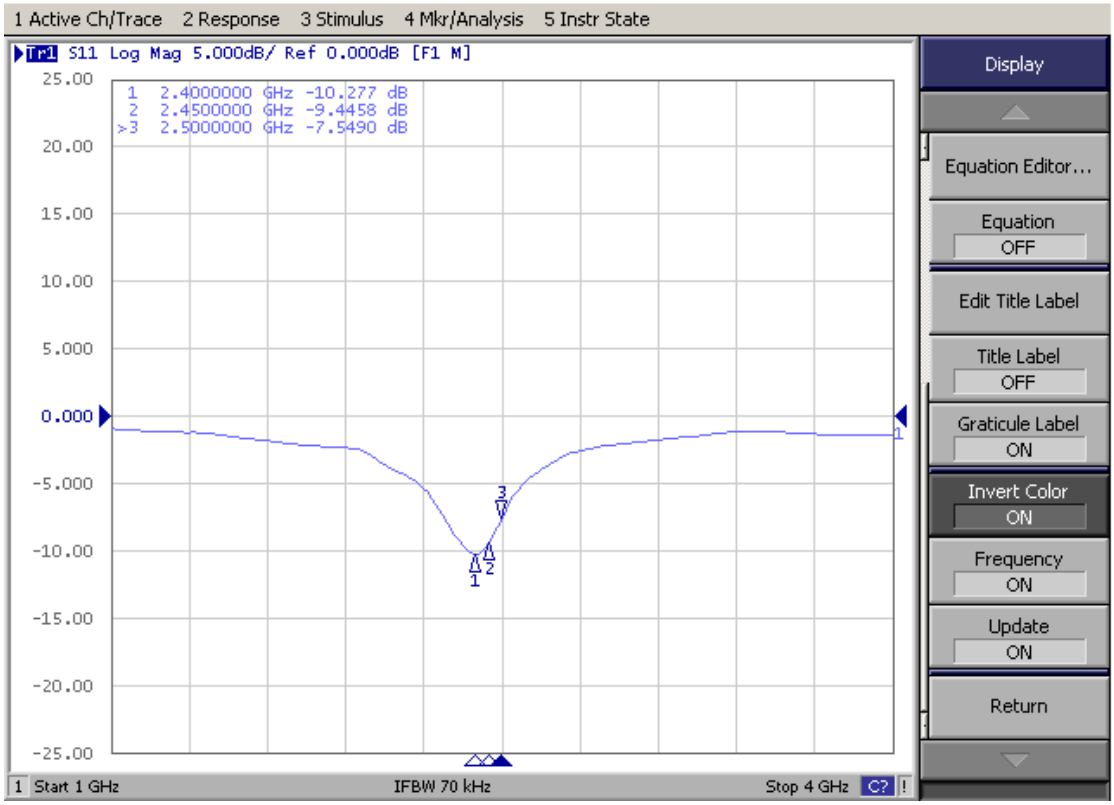


Rev	Description	Date	Remark
A	New drawing		

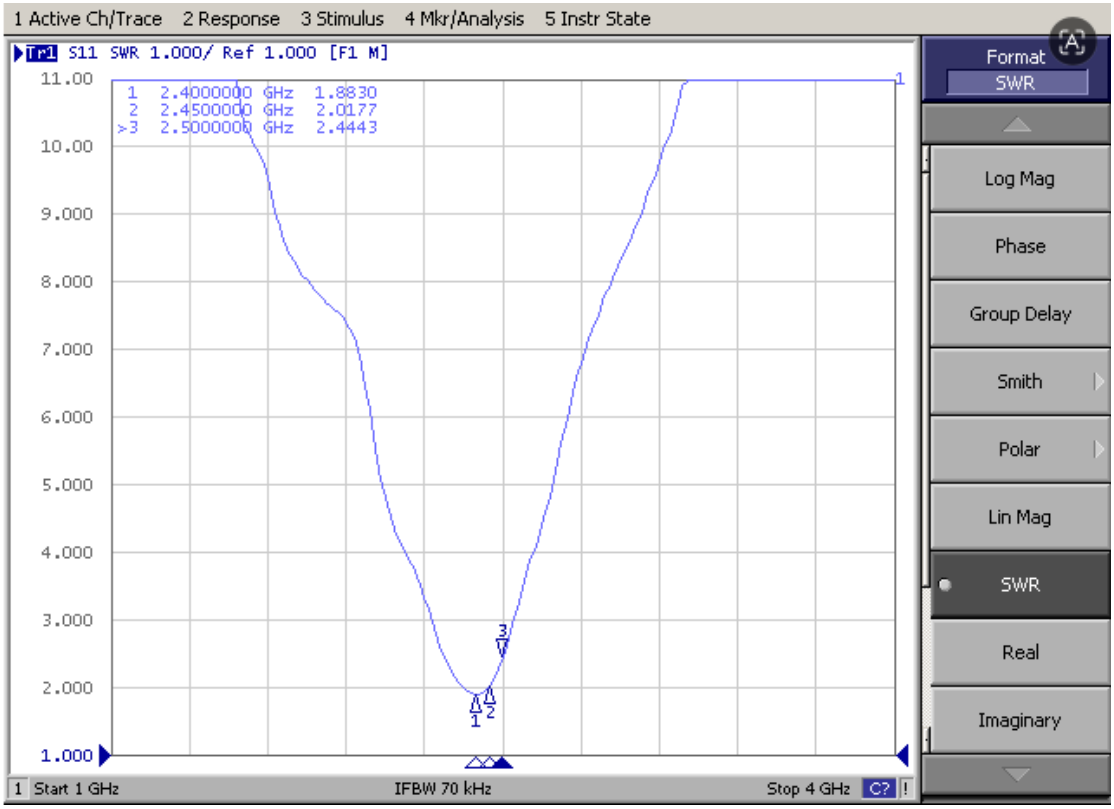
SHEN ZHEN SKYLink CO.,LTD

Third Angle				Project		Date	2026-06-23
0～10	±0.05	○	0.02	Part Name		Designed by	
10～18	±0.10	◎	⌀0.03	Part No.	RasKars Main v1.4	Checked by	MD
18～30	±0.12	⊥	0.02	Material			RF
30～40	±0.15	▱	0.04				
40～	±0.20	Angle	±0.5°	DWG No.		Approved by	
Location						Unit mm	Scale 1:1 Rev A

◆ Return Loss



◆ VSWR



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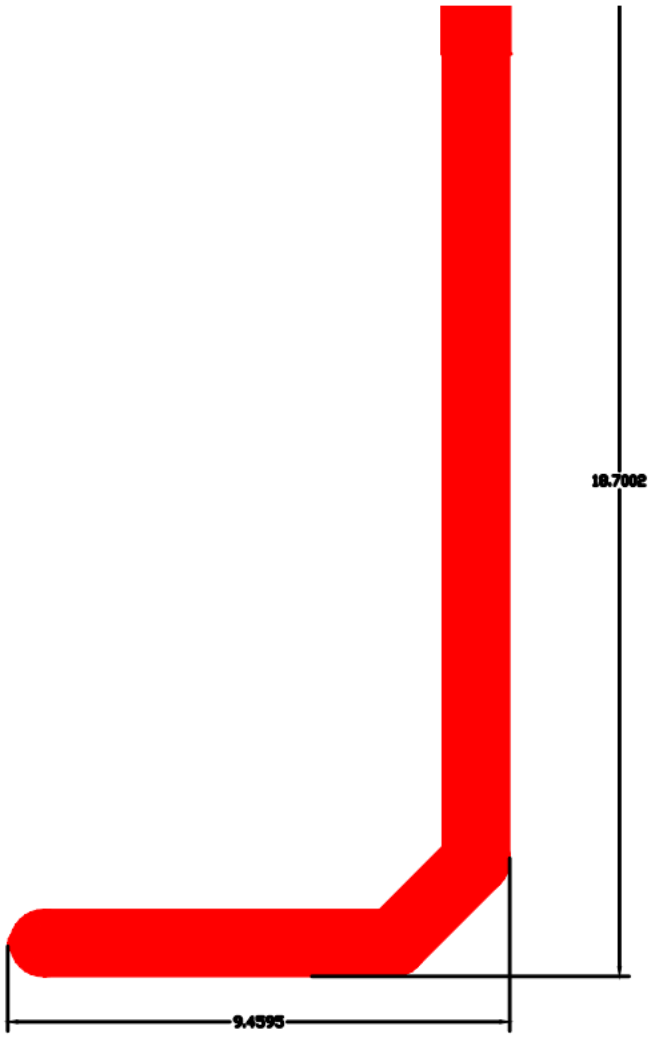
◆ Gain & Efficiency

unit:mm

Freq (MHz)	Effi (%)	Gain (dBi)
2400	37.54	0.66
2410	38.19	0.76
2420	37.35	0.69
2430	34.27	0.31
2440	31.8	0.04
2450	32.25	0.13
2460	31.51	0.03
2470	32.31	0.15
2480	30.72	-0.03
2490	30.76	-0.06
2500	29.82	-0.26



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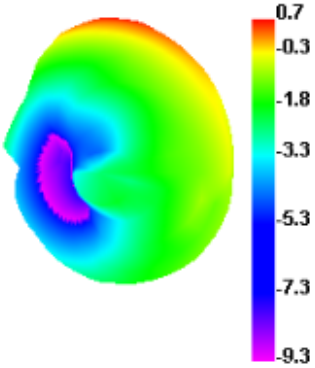
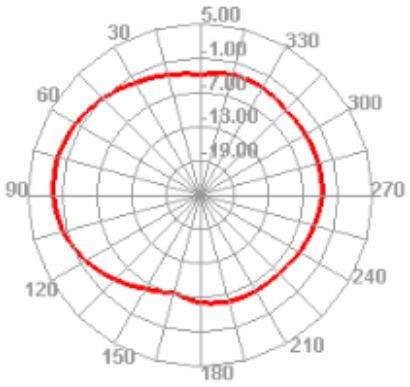
◆ Radiation Pattern

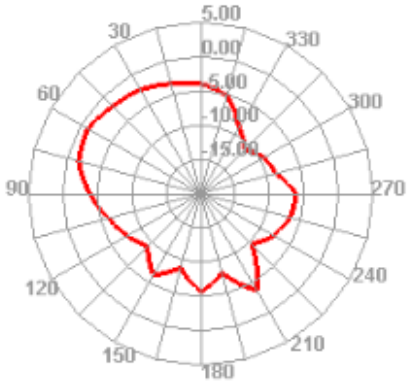
2400.000MHz



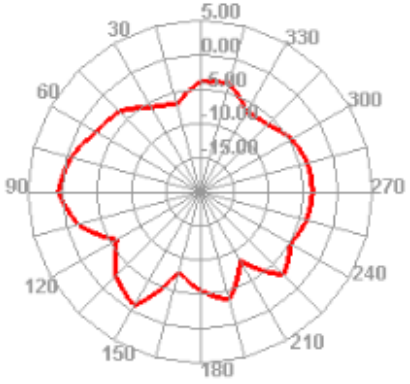
2400.000MHz H



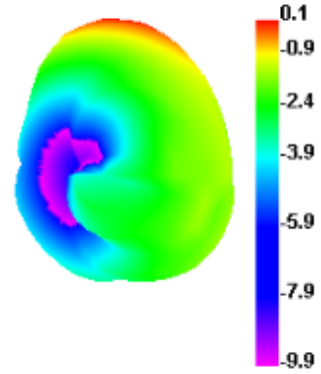
2400.000MHz E1



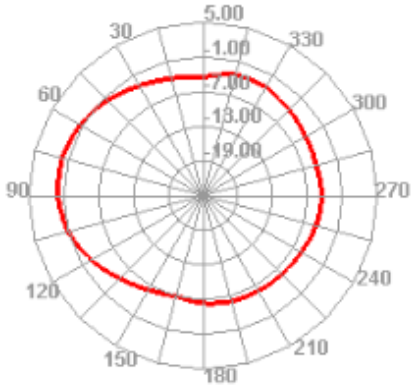
2400.000MHz E2



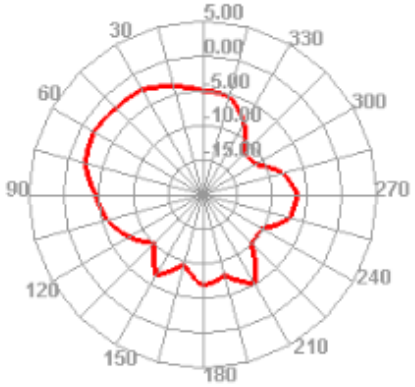
2450.000MHz



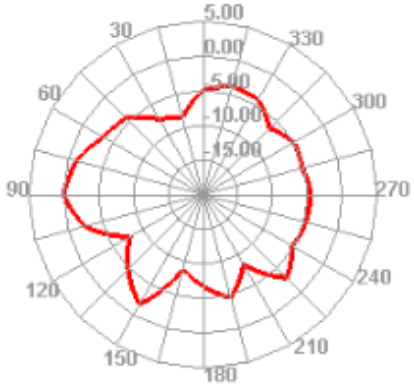
2450.000MHz H



2450.000MHz E1



2450.000MHz E2



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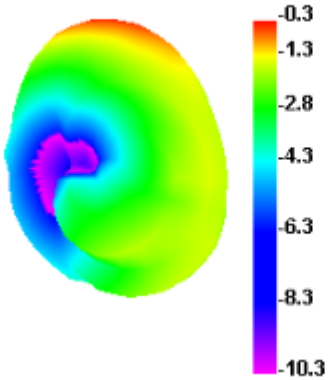
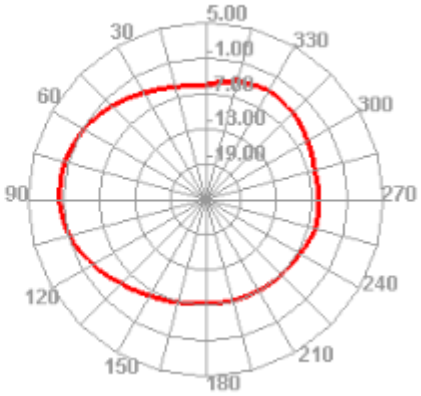
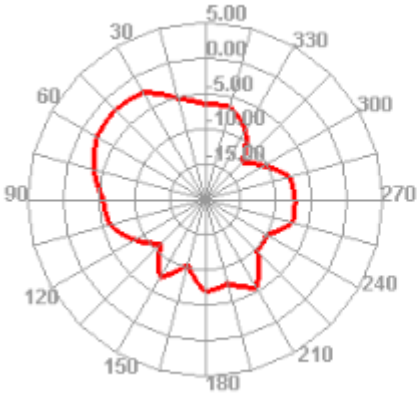
2500.000MHz



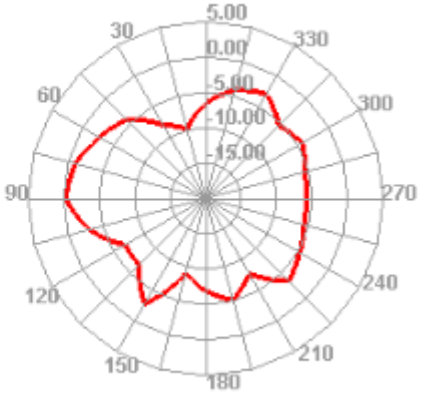
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



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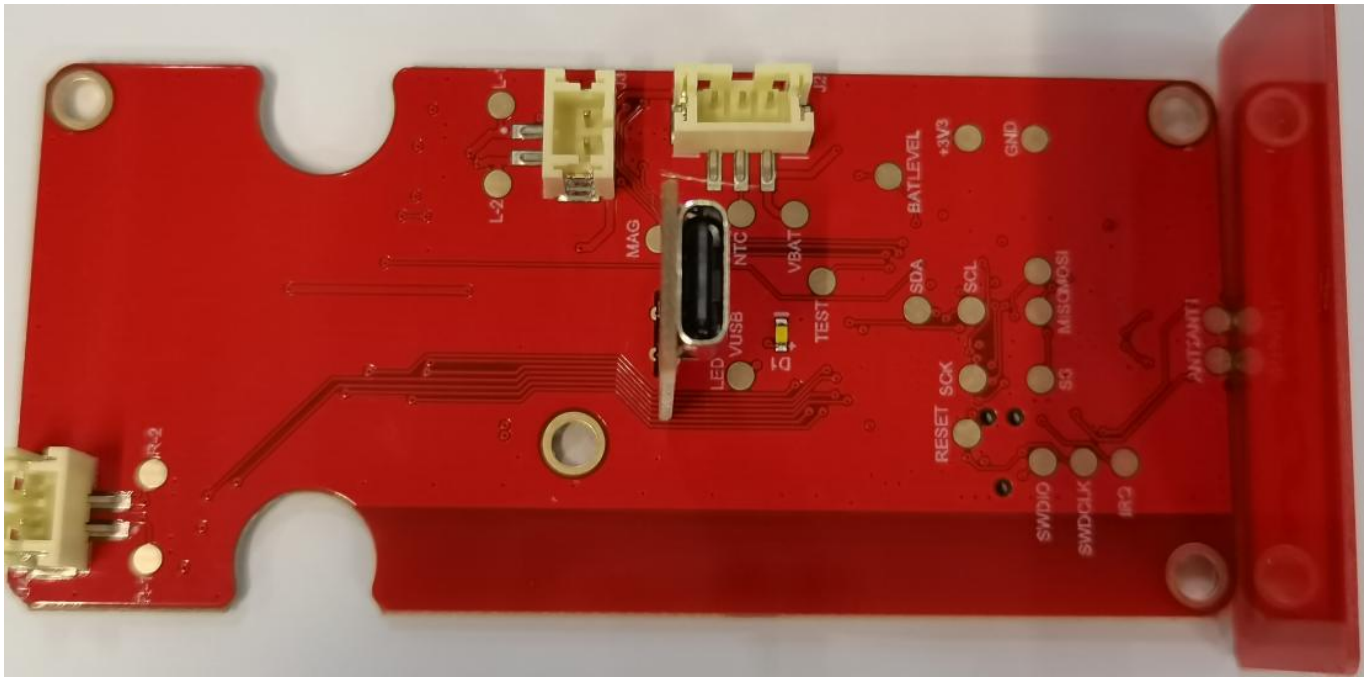
◆ Antenna Picture



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◆ Reliability Test

Test Item		Test condition	Equipment	Specification	Result
1	Low Temp. Storage Test	Temperature: -30℃， Time:48hrs Test condition: Placing antenna in a Low/High Temperature Chamber, keep the temp is 25℃ and humidity is 65% for one hour, then step-down the temp. to -30℃ in one hour, store antenna for 44 hours; step-up temp to 25℃,test antenna after 2 hours.	Temp.&Humi. Tester	No material deformation is allowed. Electronic Performance is ok .	PASS
2	High Temp./High Humid Storage Test	Temperature: 85℃ Humidity: 85% RH Time:48hrs Test condition: Placing antenna in a Low/High Temperature Chamber, keep the temp is 25℃ and humidity is 65% for one hour, then step-up the temp. to 80℃ and the humidity up to 85% in one hour, store antenna for 44 hours; step-down temp to 25℃,test antenna after 2 hours.	Temp.&Humi. Tester	No material deformation is allowed. Electronic Performance is ok .	PASS
3	Salt-Spray 6 pray Test	Placing antenna in the Salt-Spray Tester ,set the test condition ， Temp: 35±2℃ Humidity: 85% NaCl salt spray :5 ±1 %.PH value :6.5~7.2 Test time:24hours	Salt-Spray Tester	No color change No appear rusting	PASS

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