



深圳市昱晟通讯设备有限公司

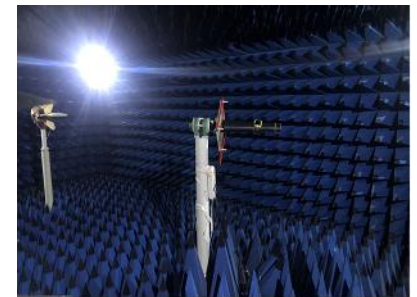
Yusheng Communications-equipment Co.,LTD

Oduli Fang U812 antenna test report

Radio frequency: He Shiyin

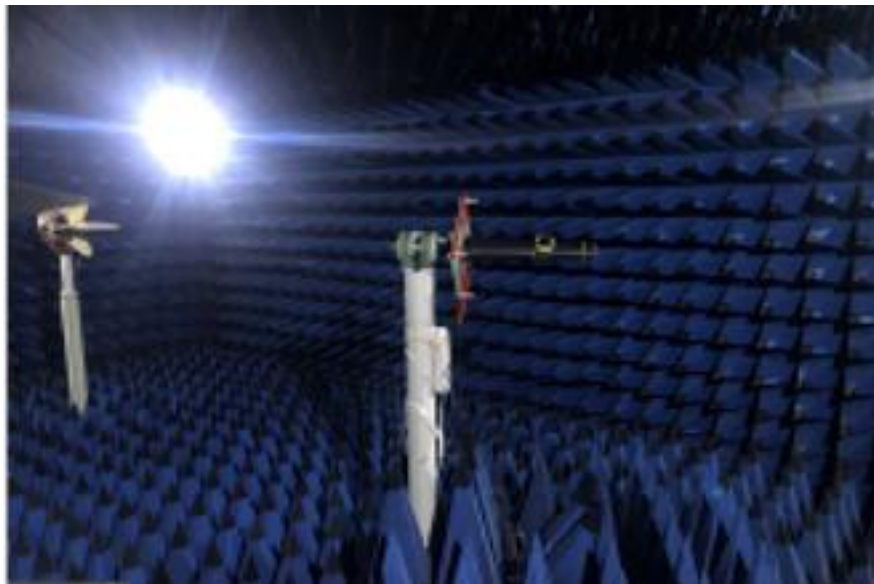
Date: 2024-9-10

Contact: 13823351625



Project development environment

We are transitioning from the Internet era to the intelligent era, with the country building a digital society and smart cities. In the next 5-10 years, both the consumer electronics market and the IoT market will have enormous potential for development. The wireless communication sector is highly diversified. In the future, Yusheng will leverage its customer platform advantages in antenna business and its overall strength to strive for providing customers with professionally competitive product solutions.



Yusheng Communications products almost cover all antenna applications for wireless terminal devices, including automotive antennas, high-precision measurement and surveying antennas, drone ground and satellite data navigation, high-precision positioning antennas, medical device wireless transmission, consumer antennas (mobile phone antennas, PADs, laptop antennas), base station/intrusive distribution antennas, smart wearable antennas (smartwatches, TWS earphones), security home antennas, and various intelligent device antennas for wireless data transmission and control.

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Summary and additional information

Project commissioning
introduction

type	dull and stereotyped			
template	motherboard			
Band and antenna material	Other antennas	WiFi+BT	2.45GHz/5.8GHz	FPC+ coaxial cable
performance requirement	Execute according to customer requirements			

Antenna active parameters

The screen is blank				
	802.11	channel number	TRP (db)	TIS (dbm)
WIFI	11B	CH1	13.08	
		CH7	13.19	
		CH13	13.24	-83.12
	11G	CH1	12.10	
		CH7	12.38	
		CH13	12.54	-69.15
	11N	CH1	12.18	
		CH7	12.71	
		CH13	12.84	-67.15
	11A	CH36	11.53	
		CH64	11.69	
		CH165	11.84	-70.70

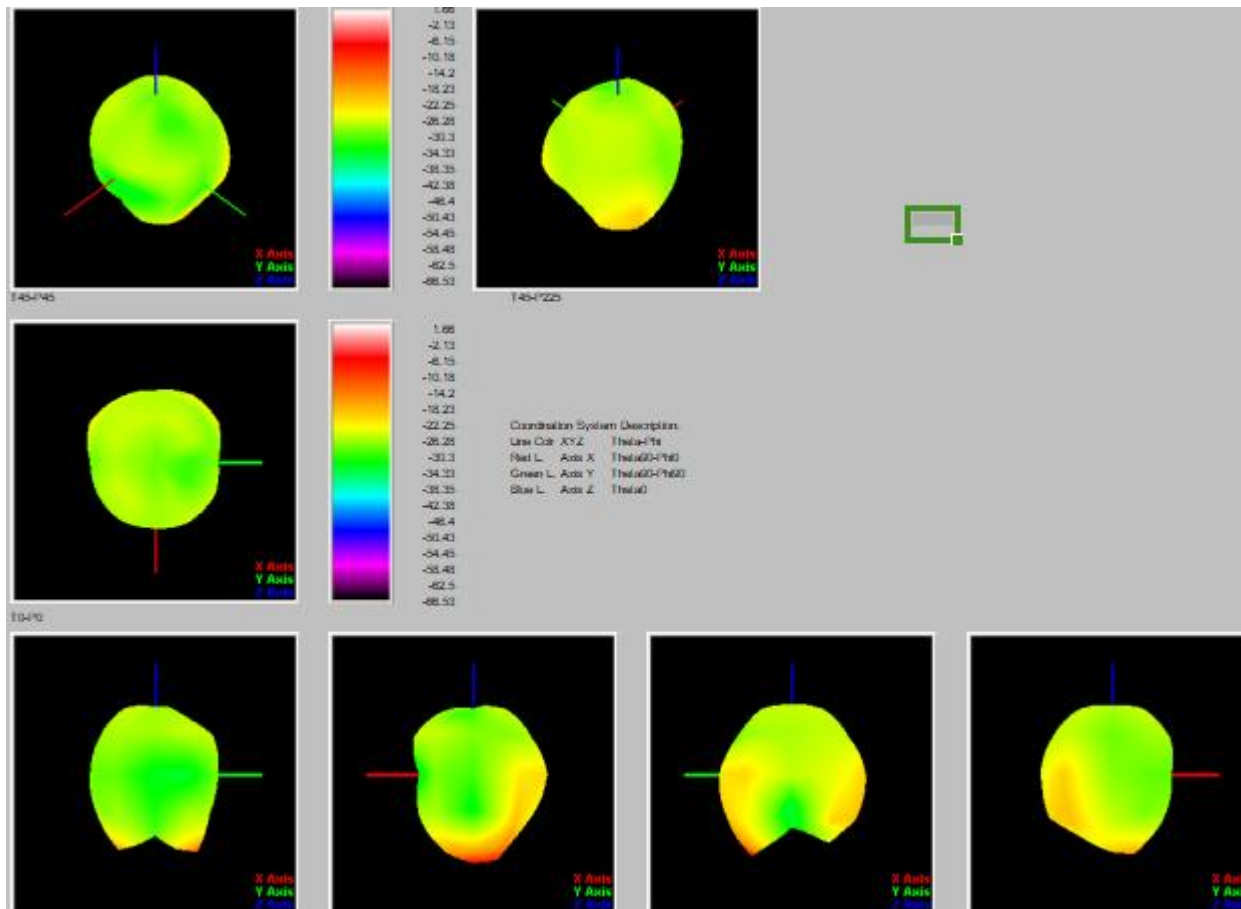
Antenna passive parameters



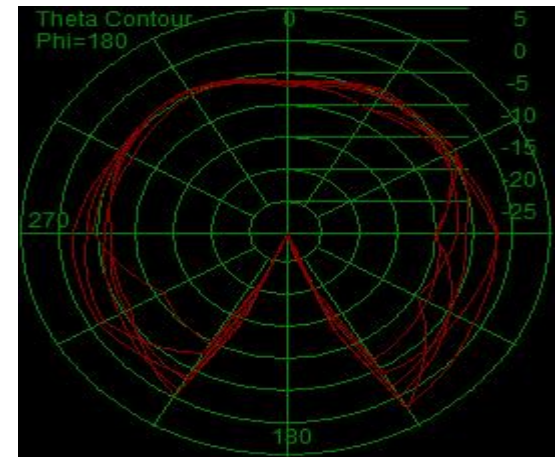
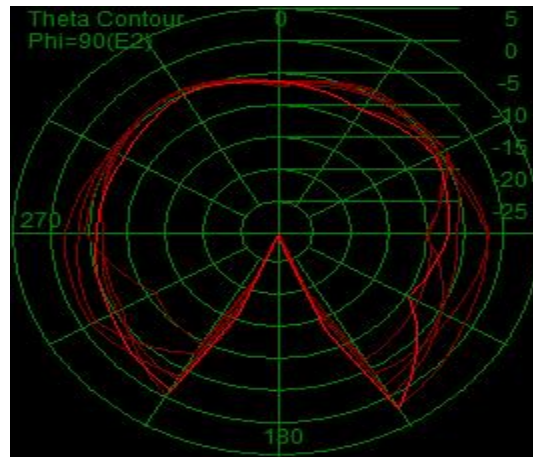
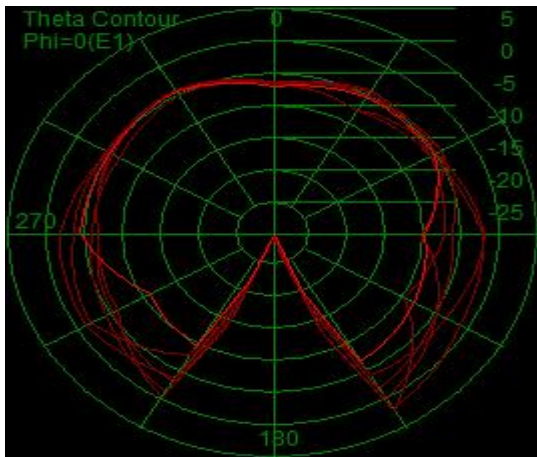
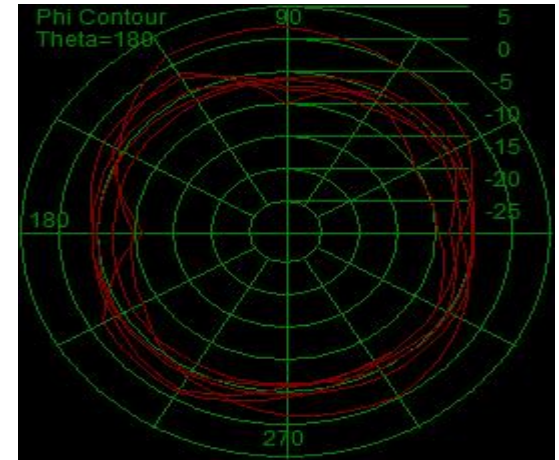
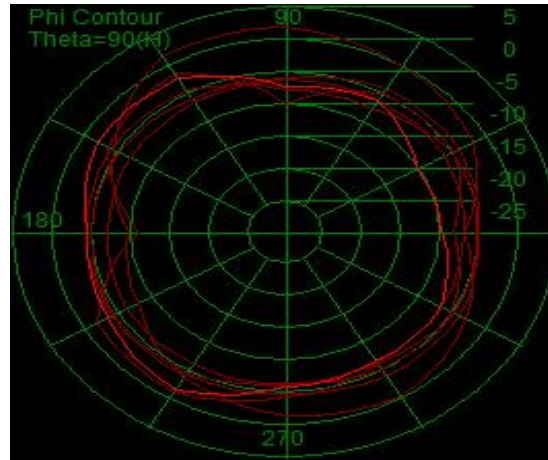
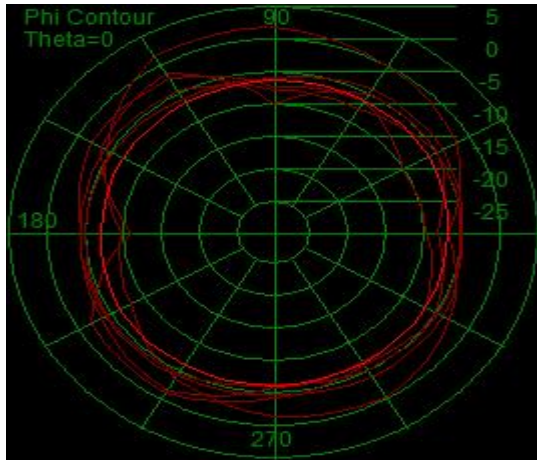
Antenna passive parameters

Passive Test					
Freq	Effi	Gain	Freq	Effi	Gain
(MHz)	(%)	(dBi)	(MHz)	(%)	(dBi)
2400.0	37.8%	1.11	5100.0	38.9%	-0.89
2420.0	39.3%	1.30	5150.0	39.3%	-0.58
2440.0	39.2%	1.24	5200.0	40.3%	0.14
2460.0	36.5%	1.66	5250.0	41.1%	0.46
2480.0	35.4%	1.43	5300.0	42.3%	0.20
2500.0	34.6%	1.09	5350.0	43.2%	0.18
			5400.0	44.9%	0.49
			5450.0	44.8%	0.13
			5500.0	43.9%	0.89
			5550.0	42.3%	0.46
			5600.0	41.5%	0.35
			5650.0	40.9%	0.54
			5700.0	39.6%	0.19
			5750.0	38.8%	0.29
			5800.0	37.6%	0.10

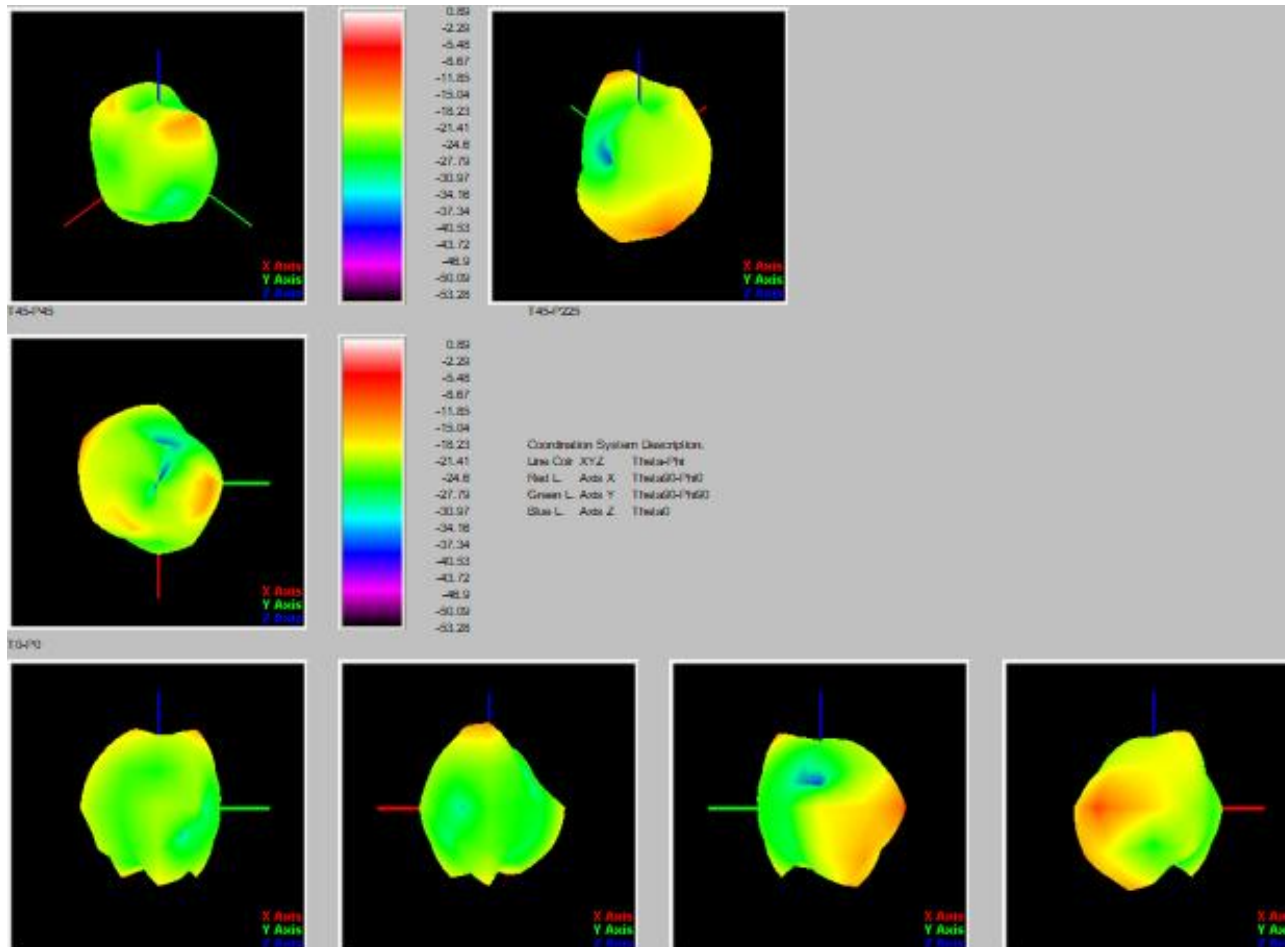
WIFI/BT passive parameters-Apple Figure 2400MHz-2500MHz



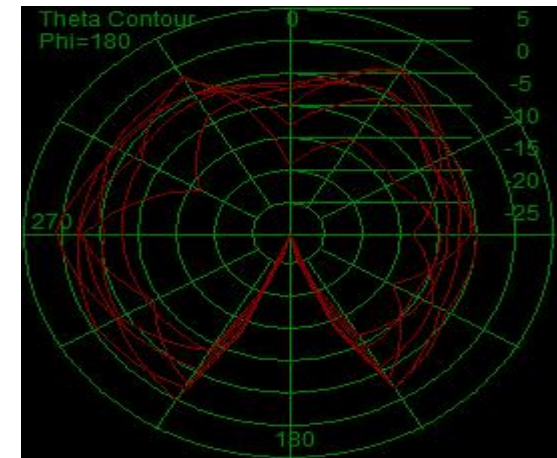
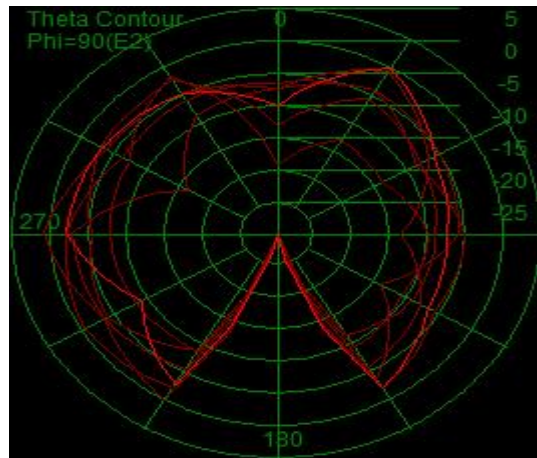
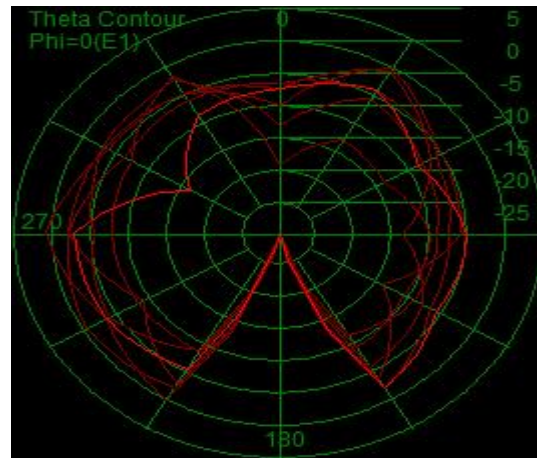
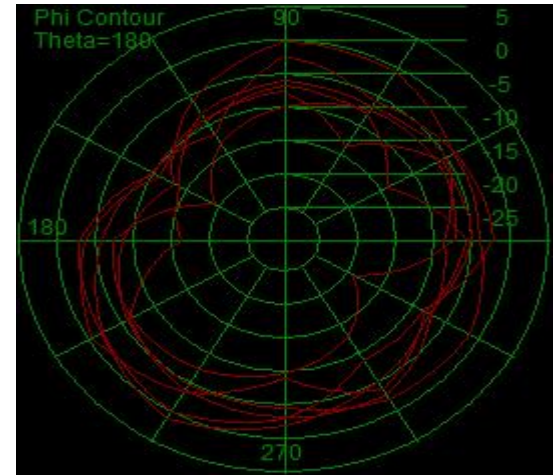
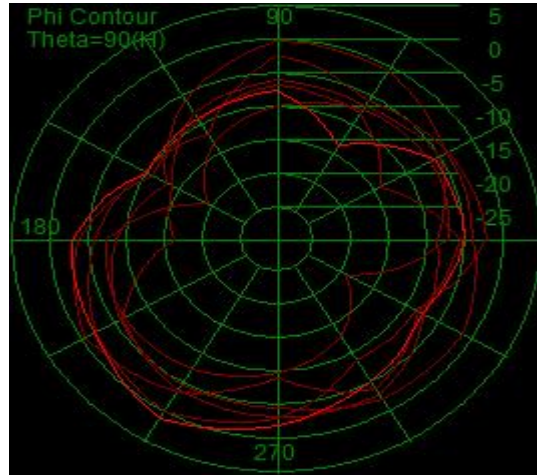
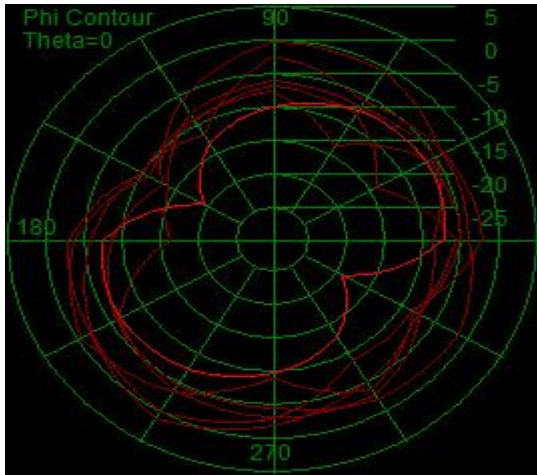
WIFI/BT passive parameters-Apple Figure 2400MHz-2500MHz



5GWIFI-passive parameters-Apple diagram- 5100MHz-5800 MHz



5GWIFI-passive parameters-Apple diagram-
5100MHz-5800 MHz

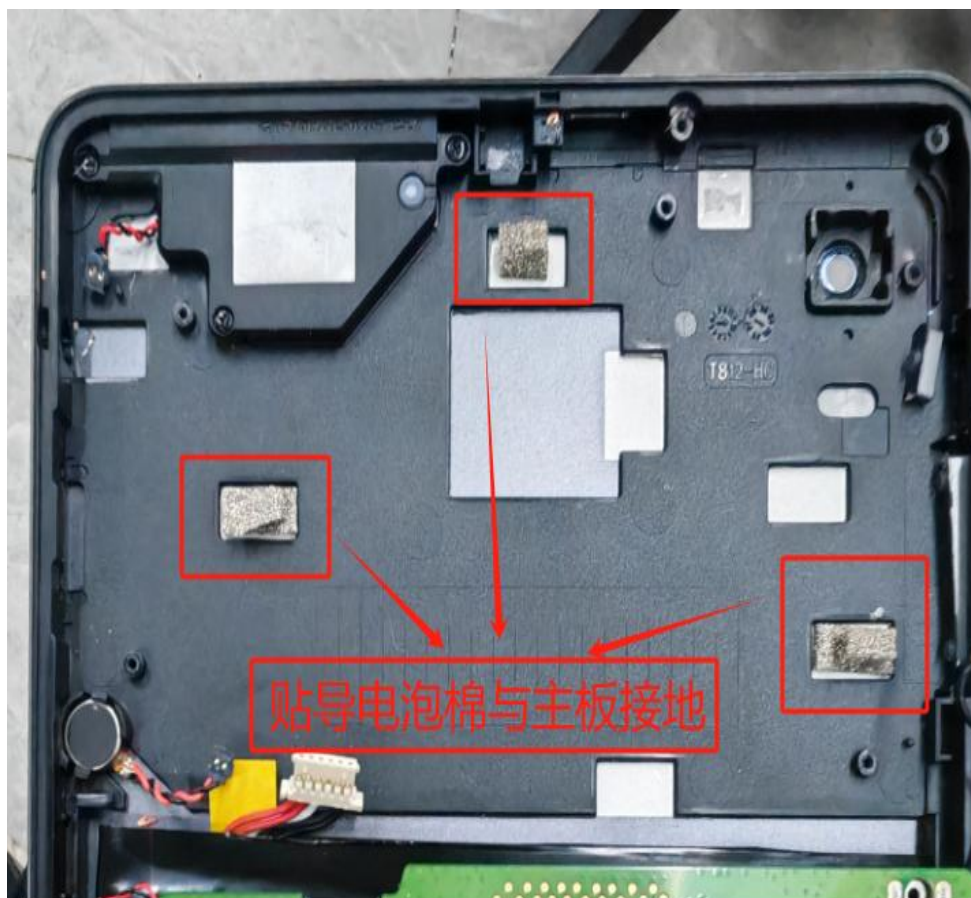


Antenna environment
processing and improvement



天线焊铜区域需要贴导电泡棉

Antenna environment processing
and improvement





sum up

1. Attention should be paid to the environmental treatment of the installed equipment according to the report to ensure the consistency of the whole machine

Thank you!



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