



深圳市昱晟通讯设备有限公司

Yusheng Communications-equipment Co.,LTD

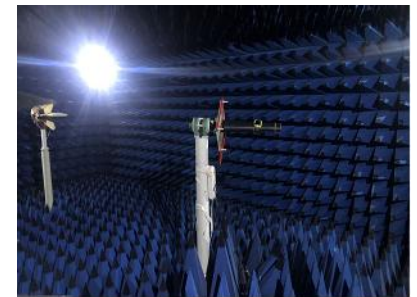
Ansheng -WMC2223-

Antenna optimization debugging report

RF: He Shiyin

Date:
2023-4-23

Contact information:



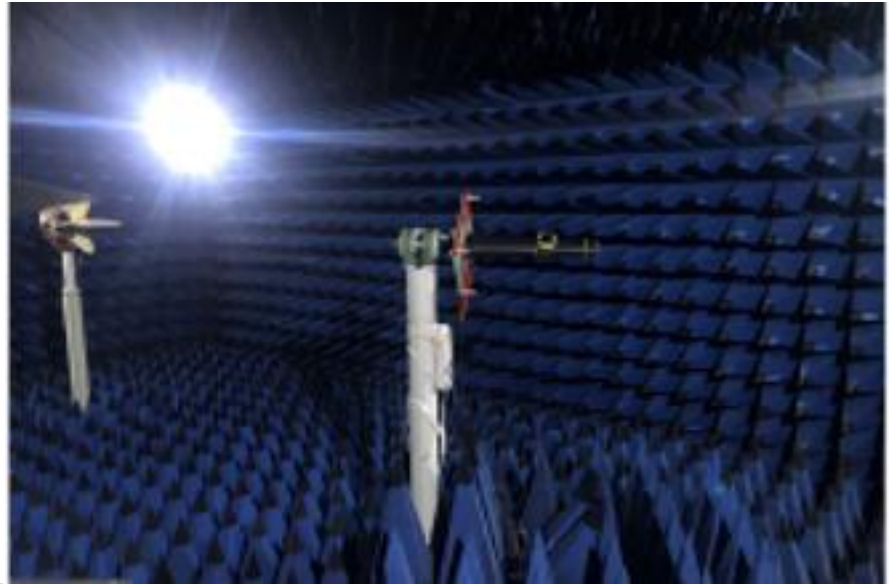


深圳市昱晟通讯设备有限公司

Yusheng Communications-equipment Co.,LTD

development environment

We are starting from
The Internet era has moved towards the era of intelligence, and the country is building a digital society and a smart city. There will be great development potential in both the consumer electronics market and the Internet of Things market in the next 5-10 years. 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 market-competitive professional product solutions.



Yusheng Communications's products cover antenna applications of almost all wireless terminal equipment, including automotive antennas, high-precision measurement and mapping antennas, drone ground and satellite data navigation, high-precision positioning antennas, wireless transmission of medical equipment, consumer antennas (mobile phone antennas, PAD, laptop antennas), base station/indoor distribution antennas, smart wear antennas (smart watches, TWS headphones), security home antennas, and a variety of wireless data transmission and wireless control smart device antennas.

1

Introduction to project debugging

2

Outline of the report version

3

Antenna passive parameters

4

Antenna active parameters

5

Sum up

Introduction to
project debugging

<p>Trigger mechanism Mould</p>	<p>Bluetooth earphone</p>		
<p>Board Mould</p>	<p>Motherboard</p>		
<p>Frequency band and antenna material</p>	<p>Main antenna</p>	<p>Repeatedly Stage</p>	<p>Timber Nature</p>
		<p>2400MHz-2500MHz</p>	<p>FPC</p>
<p>Performance requirements</p>	<p>Perform as required by the customer</p>		



Outline of the report
version

Report Version	Reporting time	Problems solved by this antenna research and development
V0.1	2023/4/15	Initial antenna debugging report
V0.2	2023/4/23	Antenna optimization debugging report

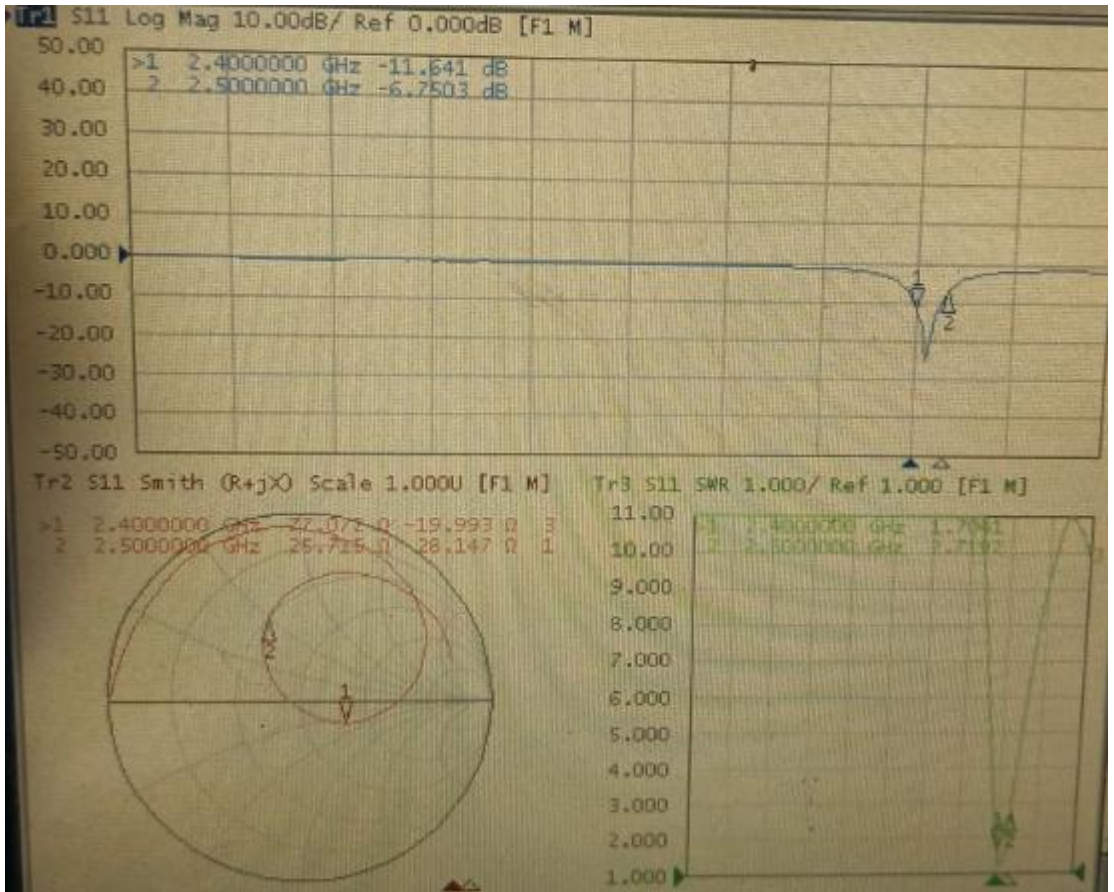
Logic board
conduction data

Left ear		
0	7.67	-91
39	7.59	-91
78	7.24	-91

Right ear		
0	7.38	-91
39	8.46	-91
78	8.72	-91

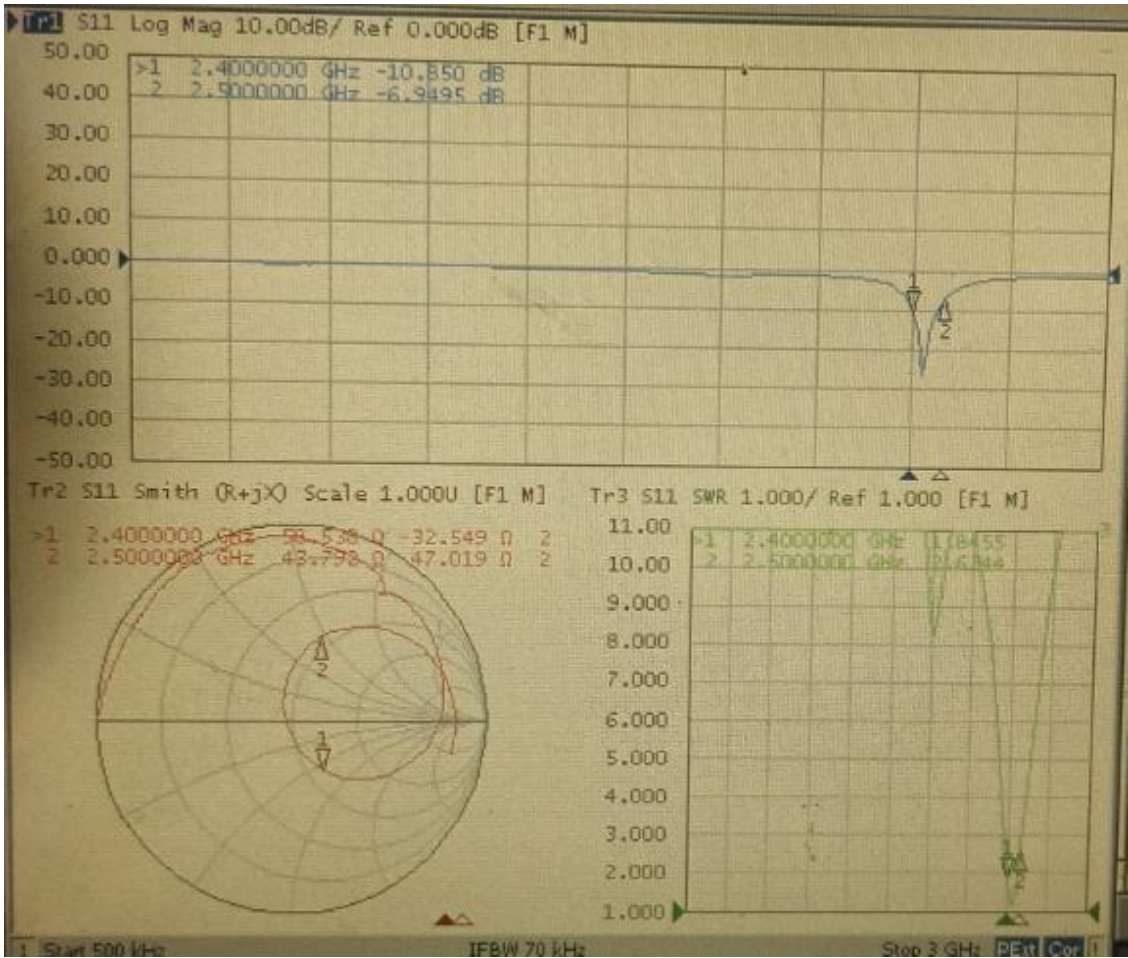
**Left ear antenna
passive data**

Freq	Effi (%)	Gain (dBi)
2400.0	19.26%	-1.73
2410.0	19.53%	-1.20
2420.0	20.16%	-0.70
2430.0	21.57%	-0.23
2440.0	22.81%	-0.88
2450.0	23.41%	-0.65
2460.0	22.69%	-0.98
2470.0	21.77%	-0.16
2480.0	20.59%	-1.90
2490.0	19.48%	-1.97
2500.0	18.33%	-2.38

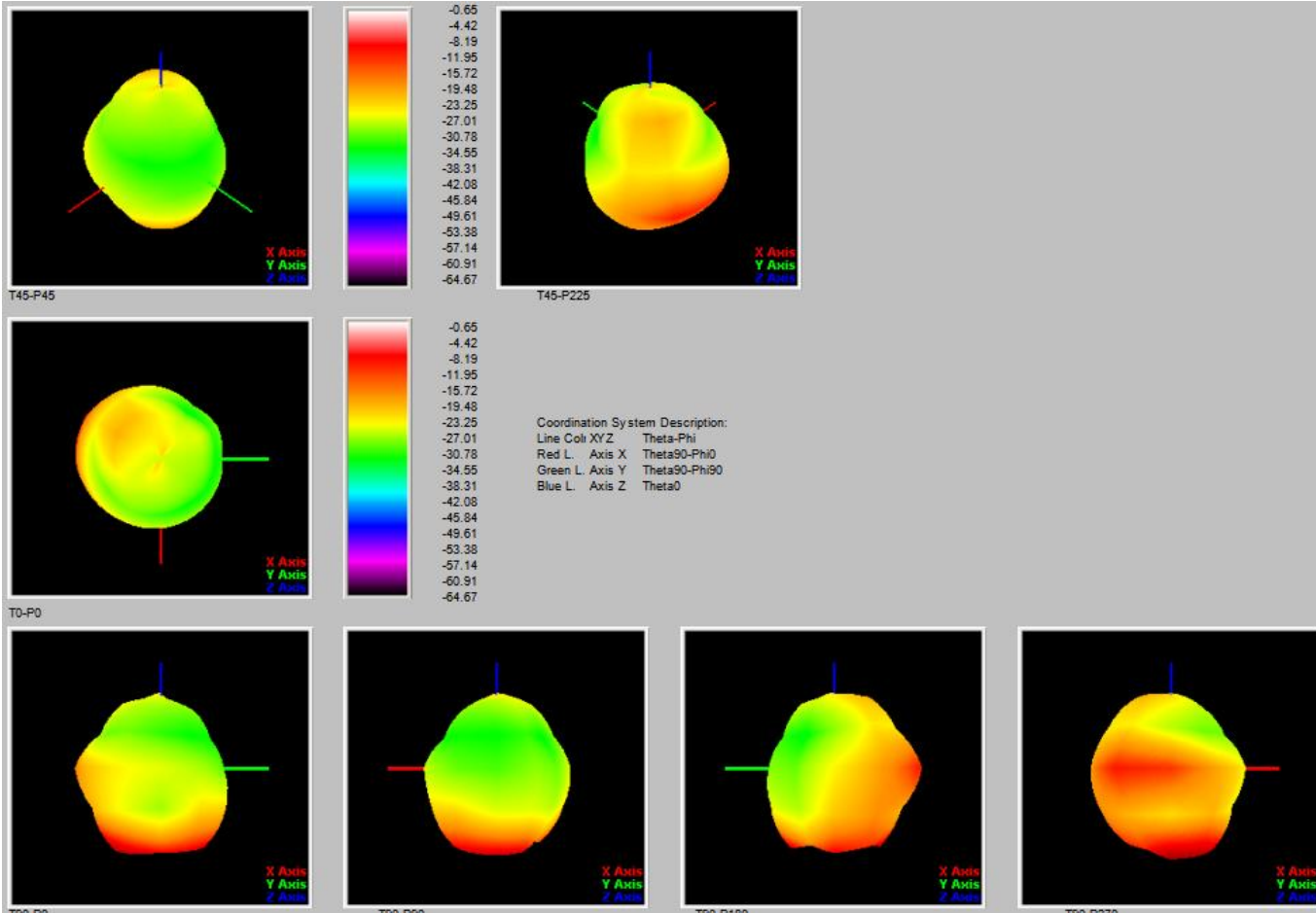


**Right-ear antenna
passive data**

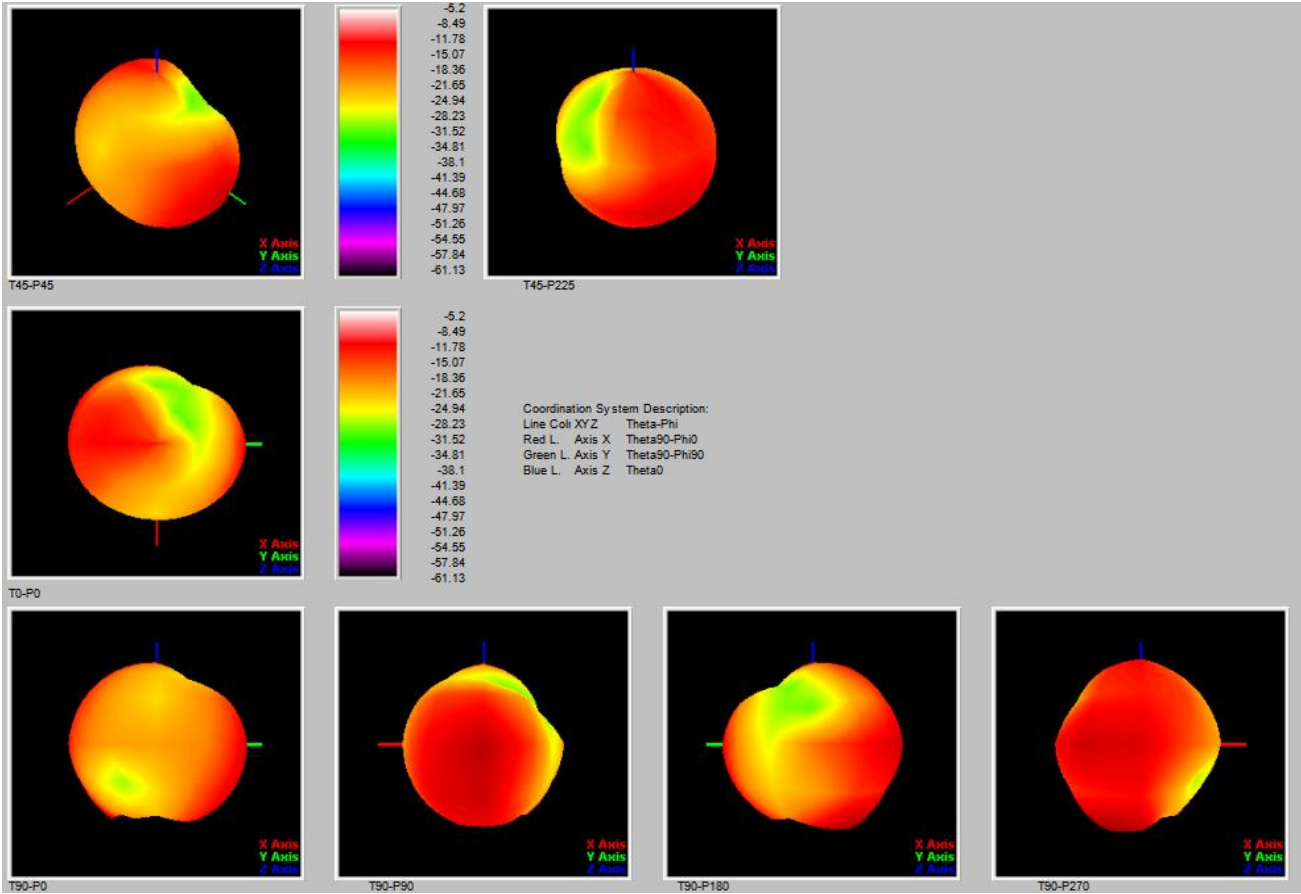
Freq	Effi (%)	Gain (dBi)
2400.0	20.42%	-1.11
2410.0	21.63%	-0.85
2420.0	22.54%	-0.82
2430.0	23.18%	-0.58
2440.0	23.29%	-0.85
2450.0	22.46%	-0.78
2460.0	21.71%	-1.12
2470.0	20.65%	-1.78
2480.0	19.88%	-1.61
2490.0	18.37%	-1.93
2500.0	17.28%	-2.55



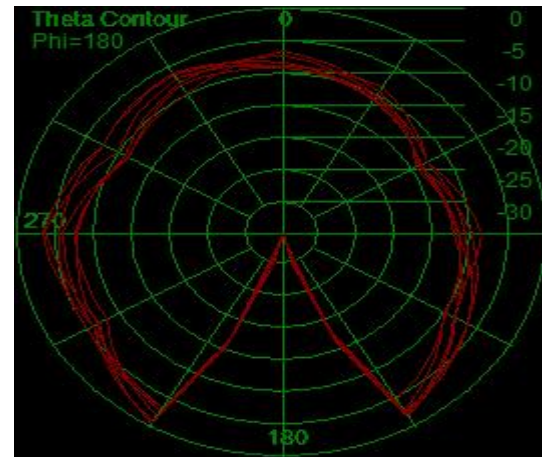
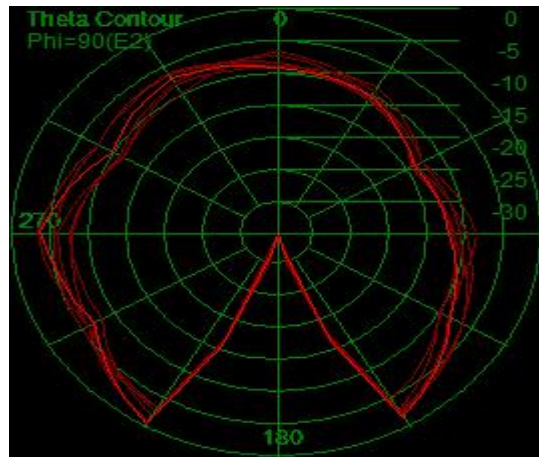
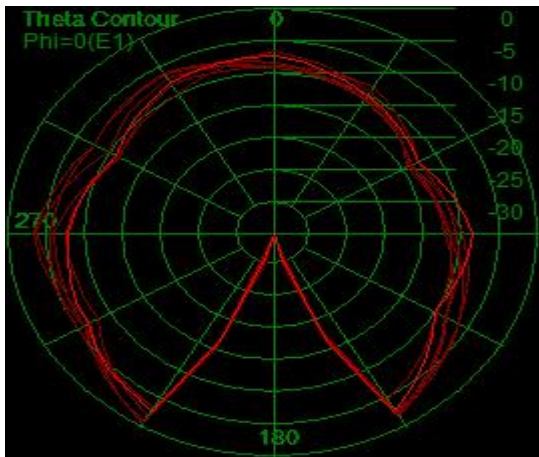
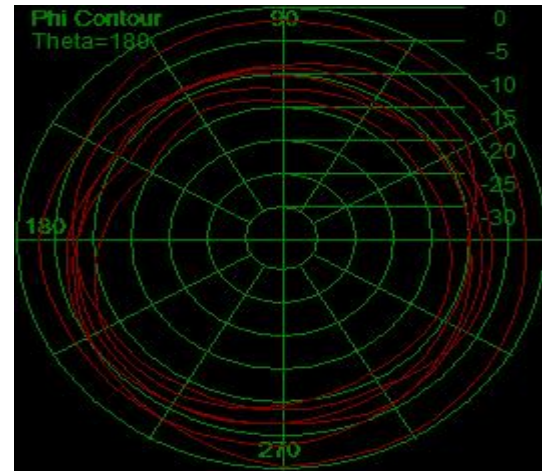
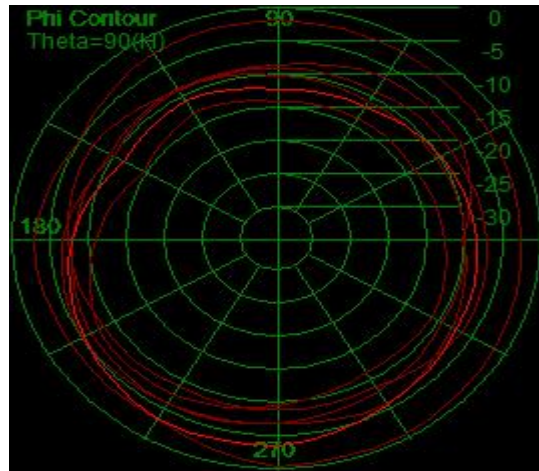
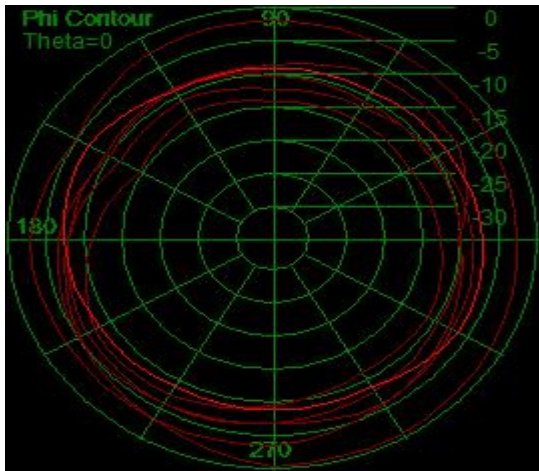
parameter
-Direction map



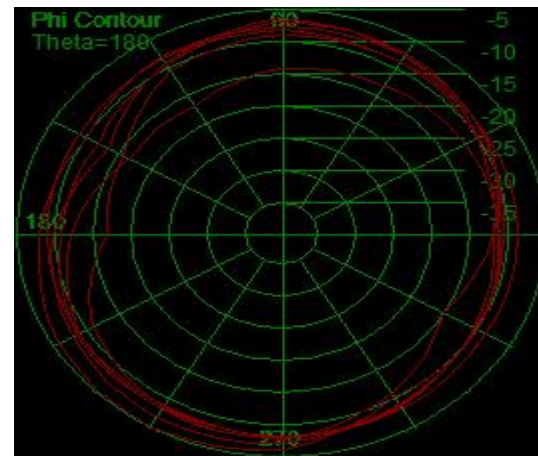
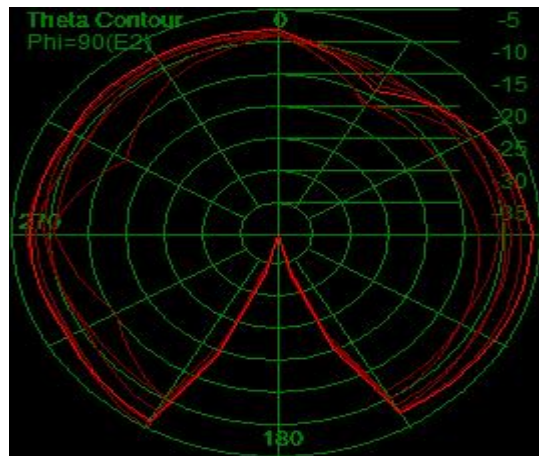
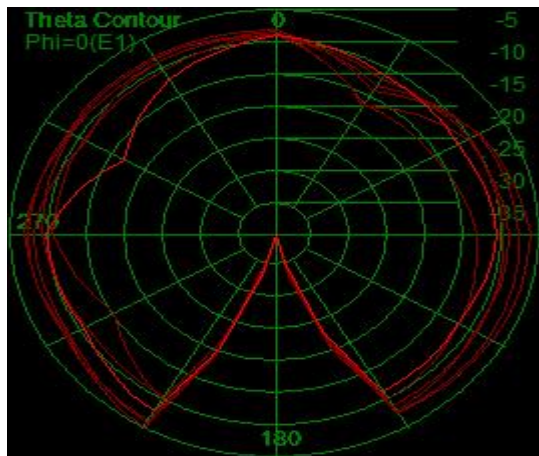
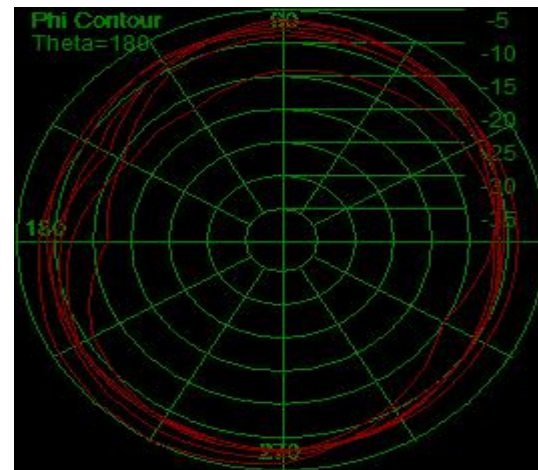
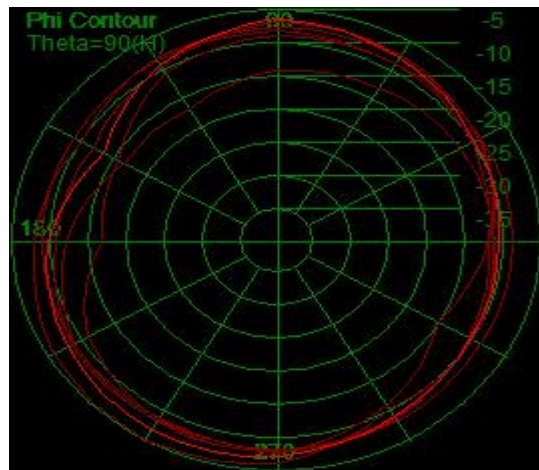
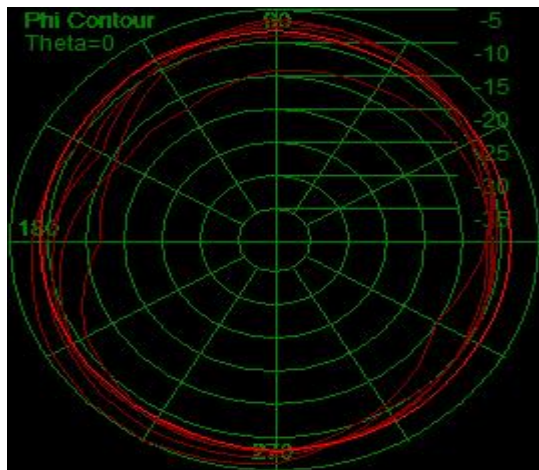
right-ear antenna
-Direction map

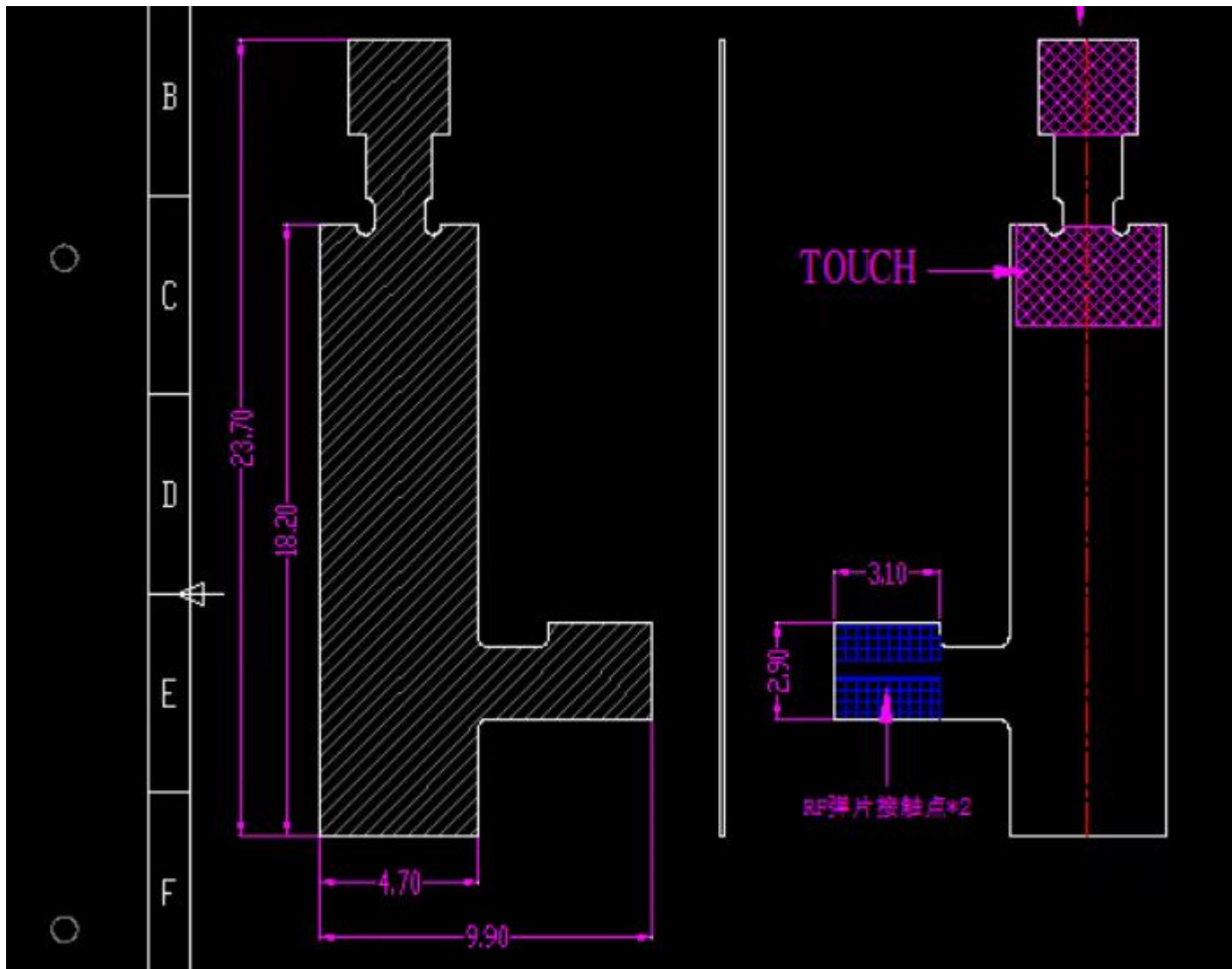


parameter
-Plan



right-ear antenna
-Plan





Thank you!



Shenzhen Address: Nantaiyun Chuanggu, Guangming Avenue, Guangming New District, Shenzhen
2Ridge pole
4Building with more than one storey

Telephone:
0755-23984257

Fax:
0755-86090455