

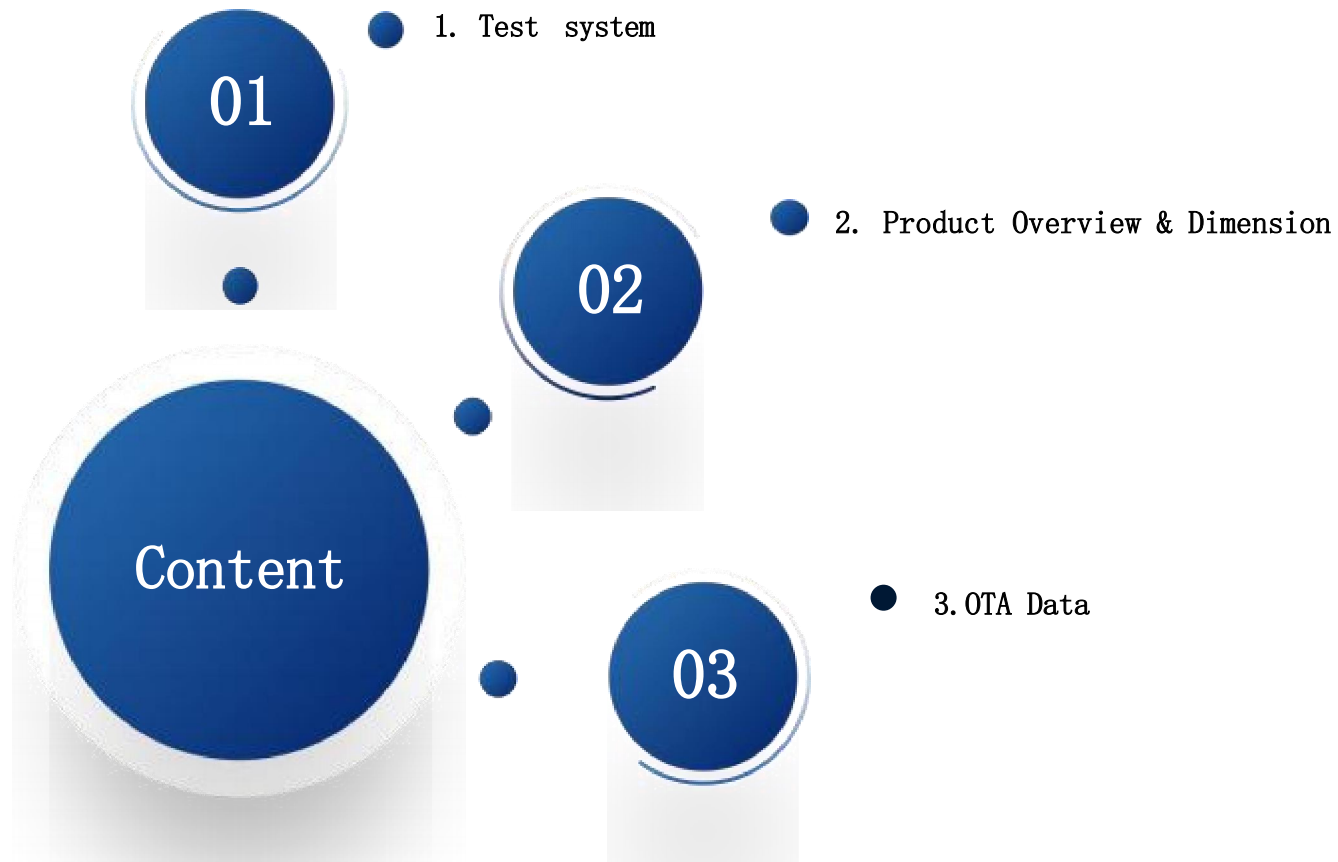


深圳合翊讯科技有限公司
Shenzhen Heyixun Technology Co., Ltd.

Customer	Shenzhen Lighkeep Co., Ltd.
Project	H5C
Antenna Revision	A0
Prepared by	18814303605
Checked by	
Date	2025. 04. 11

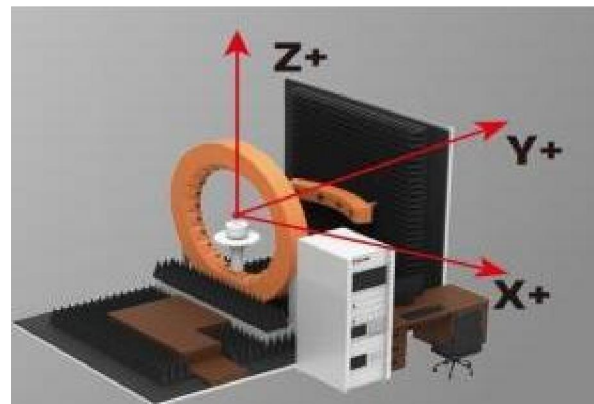
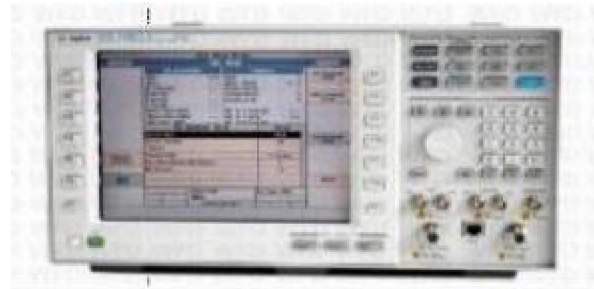
Purpose

This report is to measure the performance of antenna for **H5C** The antenna operating frequency at 2400-2500MHz All test data are showed as below.

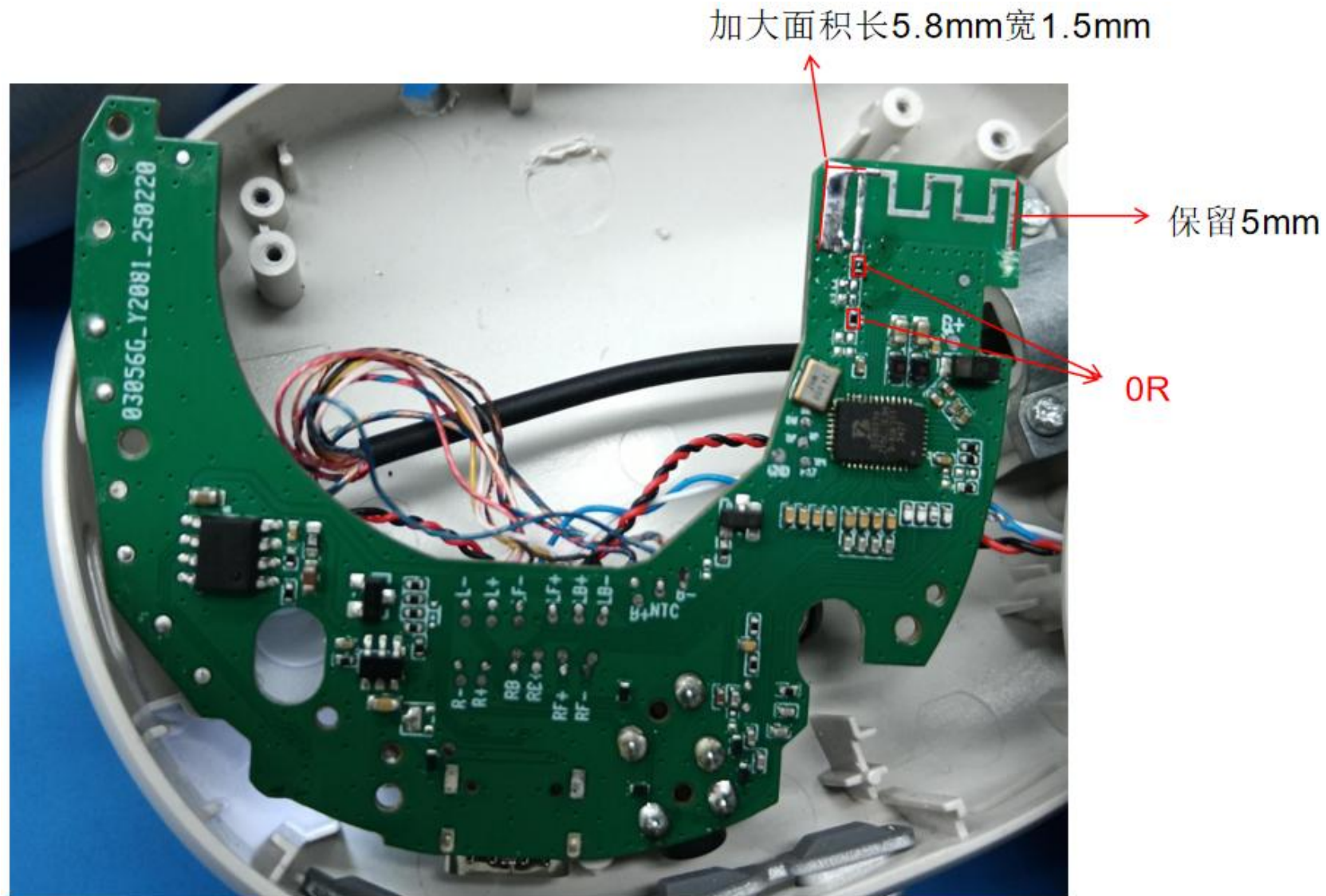


1. Test System

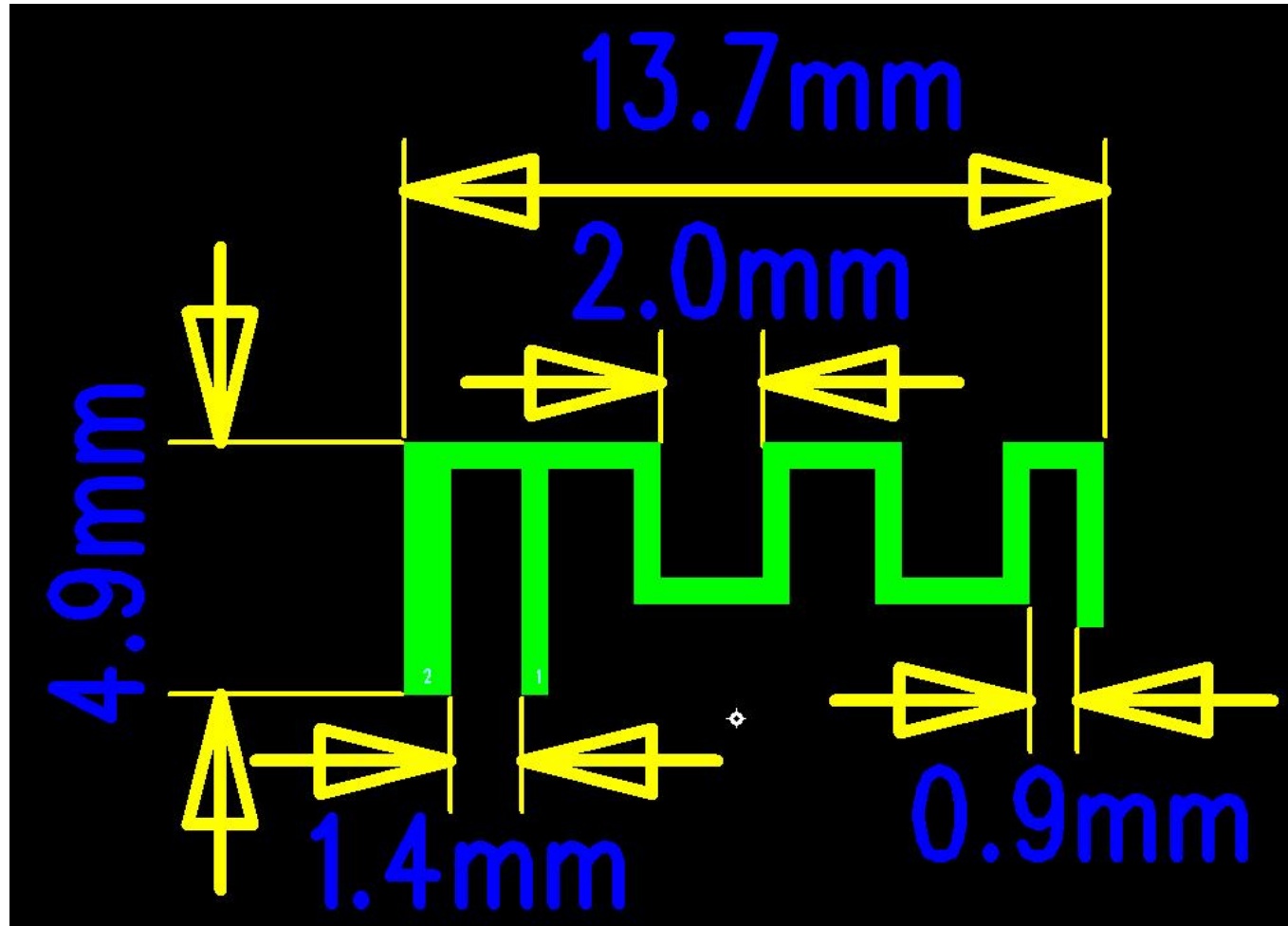
Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5071B
OTA Test	TRP& TIS	Agilent 8960 & CMW500 STIMO
Gain & Efficiency	Gain & Efficiency	SATIMO Agilent 5071C





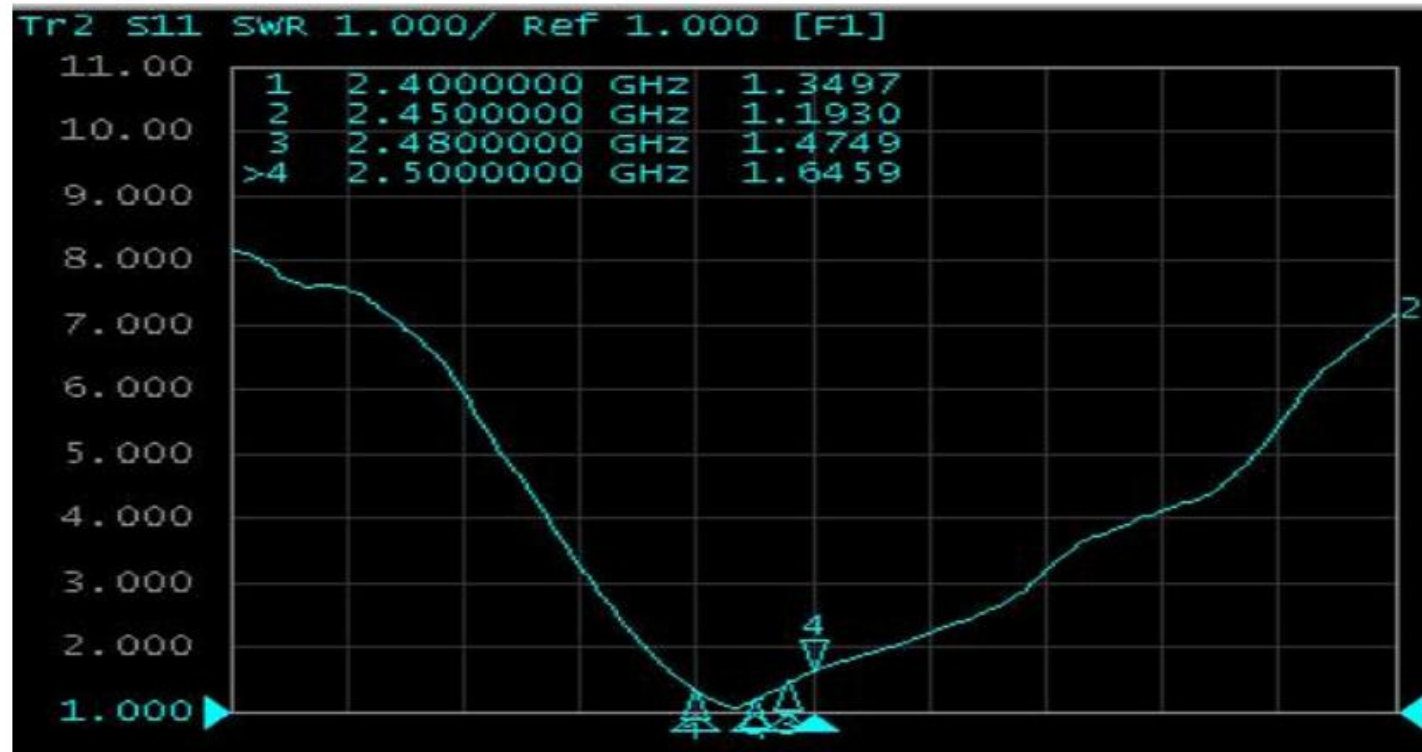


Antenna size



3.1 Test Result

1.S11 Parameter-VSWR



Frequency (MHz)	2400	2450	2480	2500
VSWR	1.34	1.19	1.47	1.64

3.1 Test Result

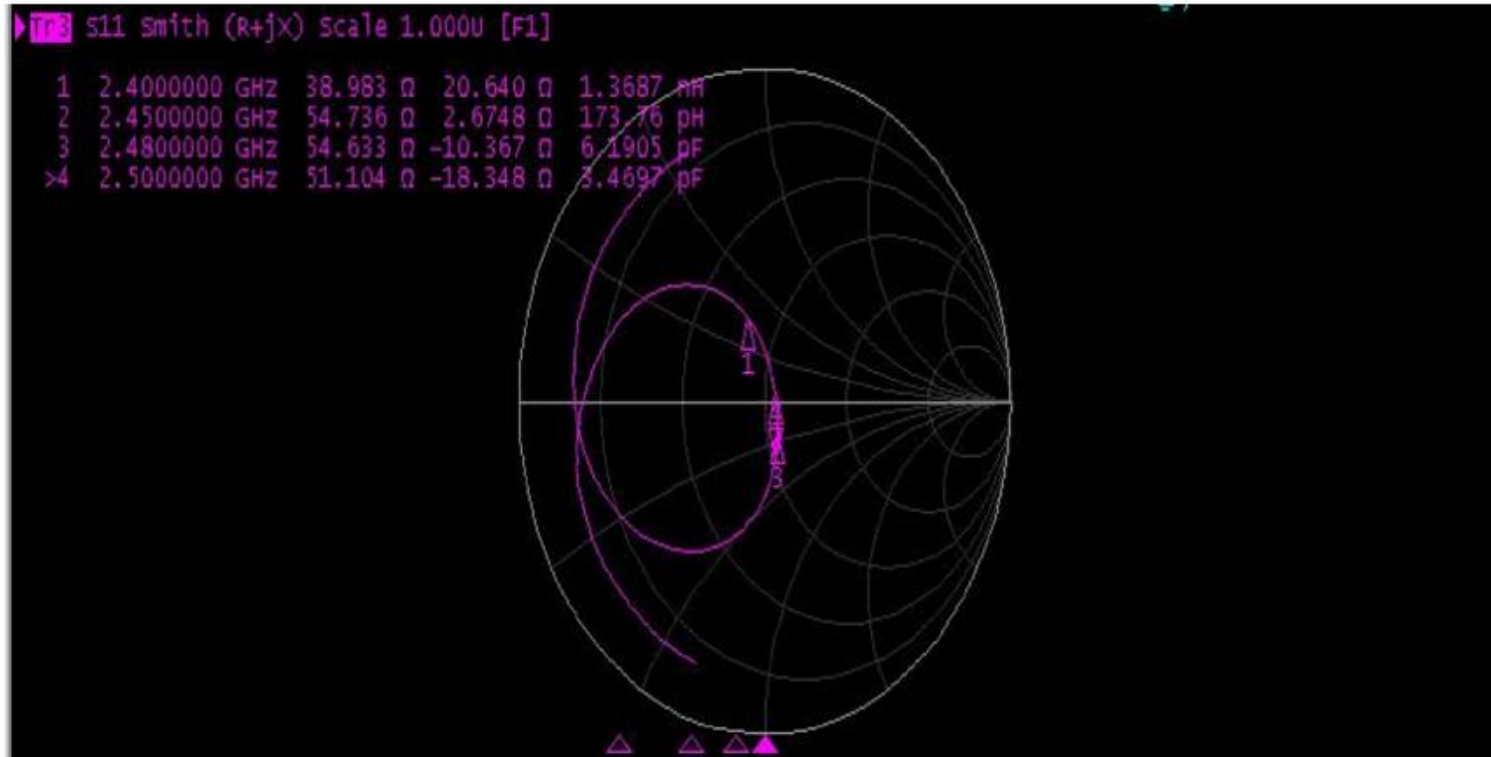
2. S11 Parameter-Log Mag



Frequency (MHz)	2400	2450	2480	2500
Log Mag	-16.54	-21.10	-14.33	-12.24

3.1 Test Result

3.1.1 S11 Parameter-Smith



Frequency (MHz)	2400	2450	2480	2500
Smi th(Ω)	38.98	54.73	54.63	51.10

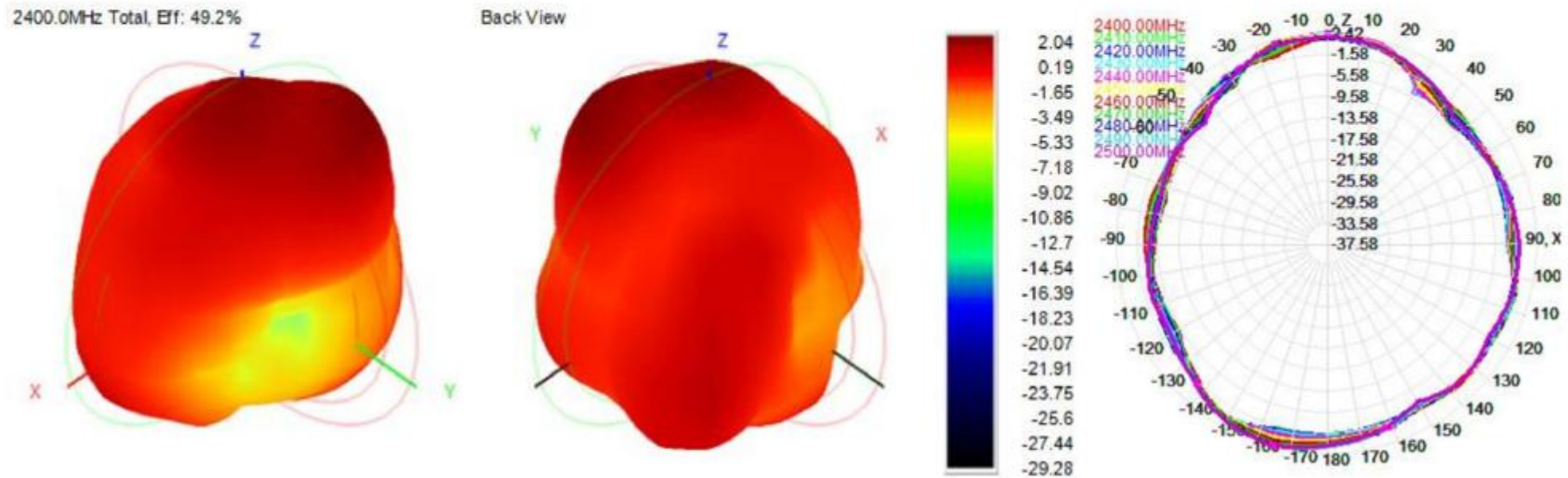
3.2 Test Result

1 Gain & Efficiency——ANT

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	49.22	2.04
2410	48.23	2.36
2420	47.43	2.57
2430	46.96	2.63
2440	46.94	2.52
2450	47.30	2.34
2460	48.10	2.13
2470	49.02	2.25
2480	50.68	2.37

3.3 Test Result

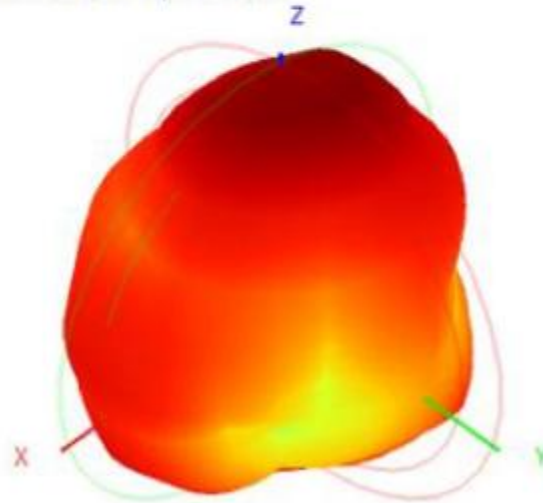
1 2D Pattern—BTANT



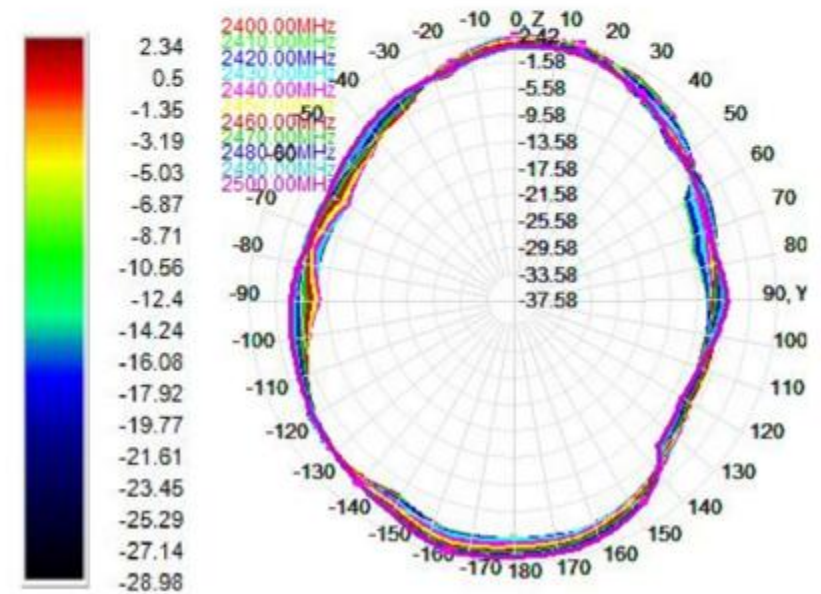
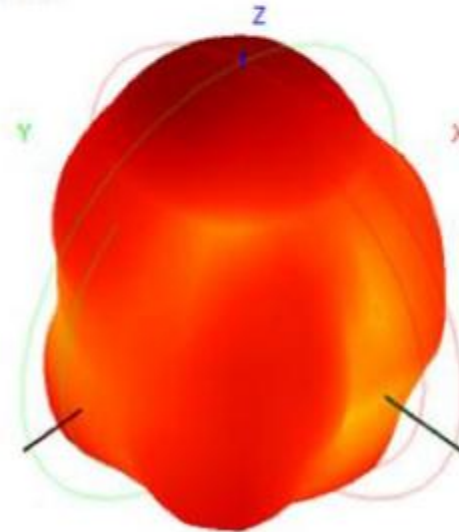
3.3 Test Result

2 2D Pattern——BTANT

2450.0MHz Total, Eff: 47.3%

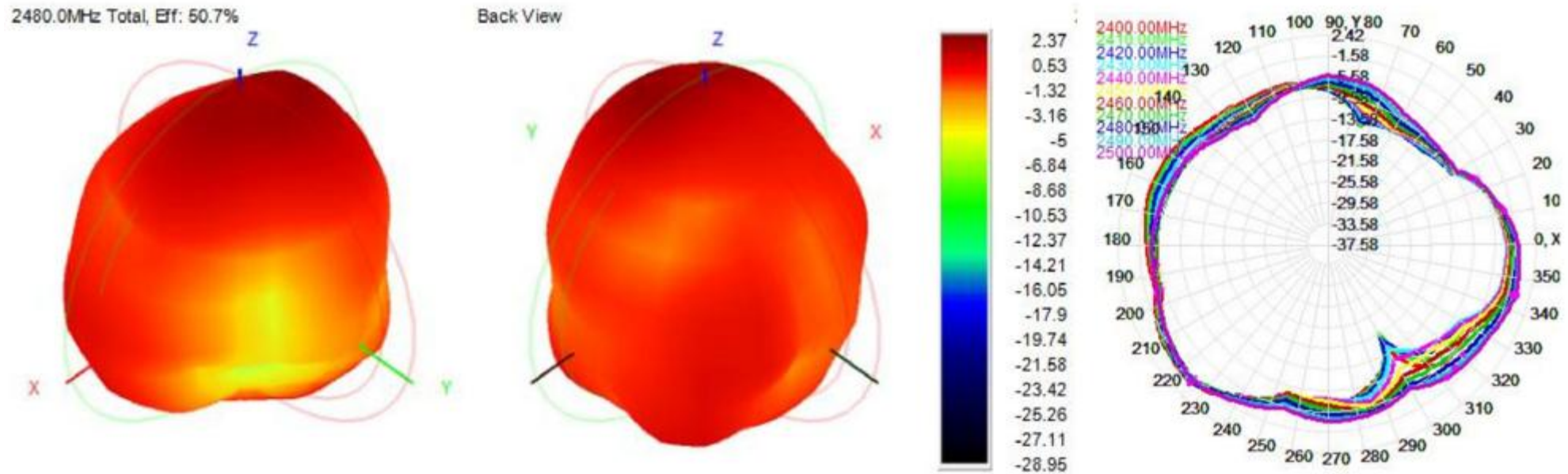


Back View



3.3 Test Result

3 2D Pattern——BTANT

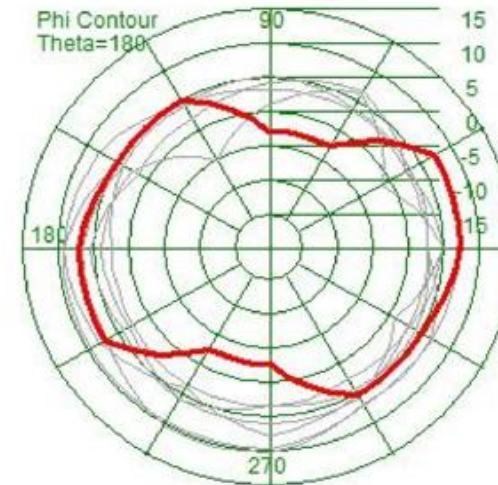
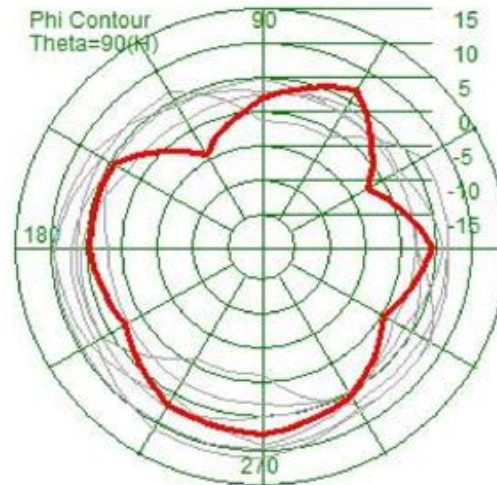
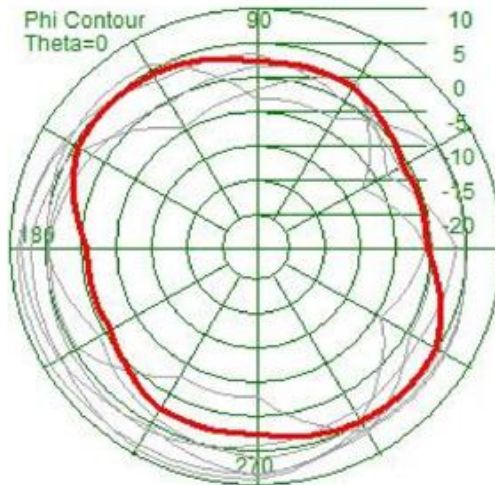
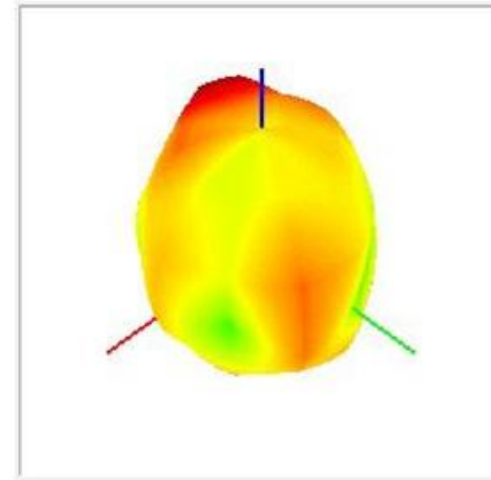
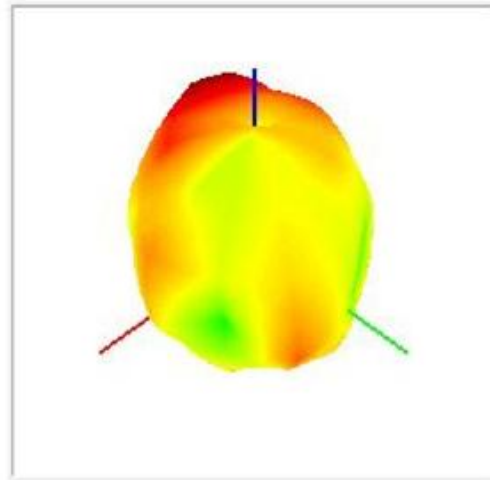
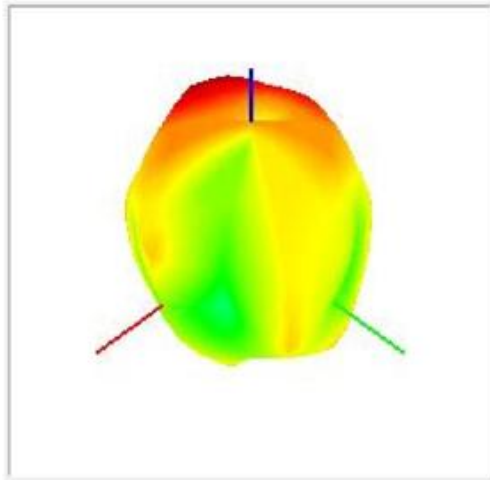


4.1 OTA Data

Test Equipment:	R&S CMW500		
Test Condition:	2 D chamber		
Band	Channel	TRP(dBm)	TIS(dBm)
BT-L	0	4.28	-91.07
	39	5.53	-91.47
	78	5.13	-90.74

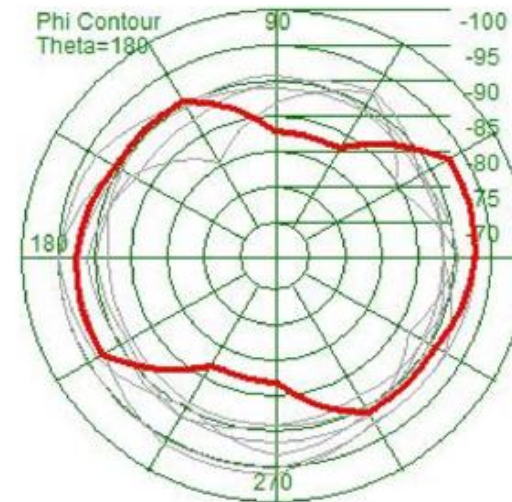
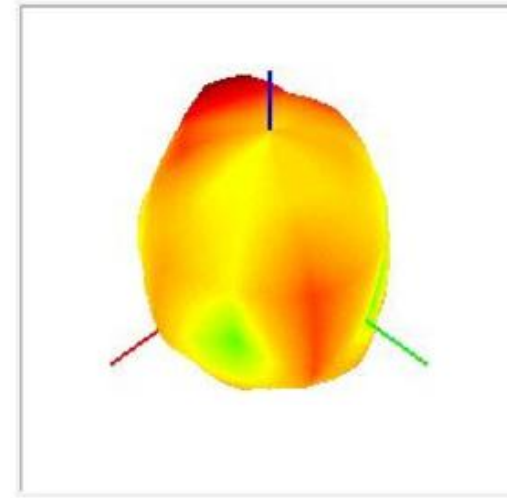
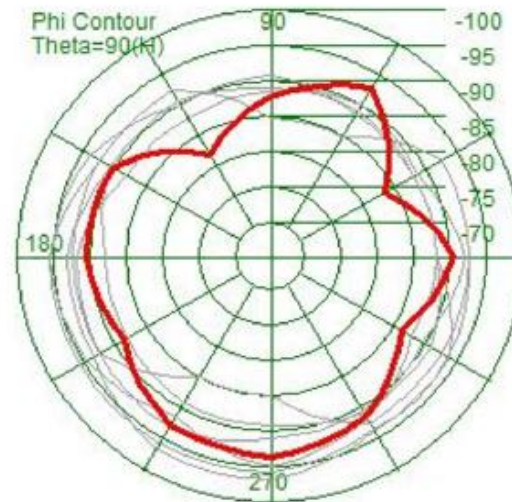
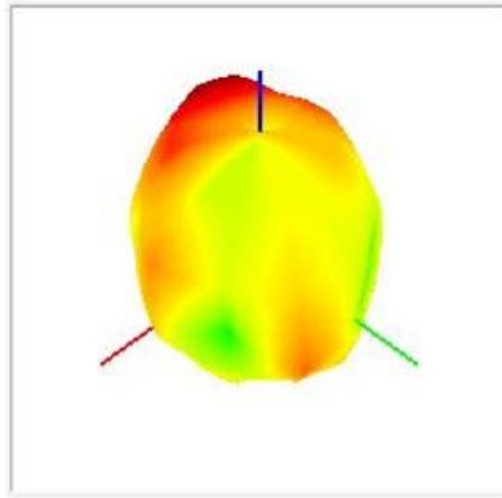
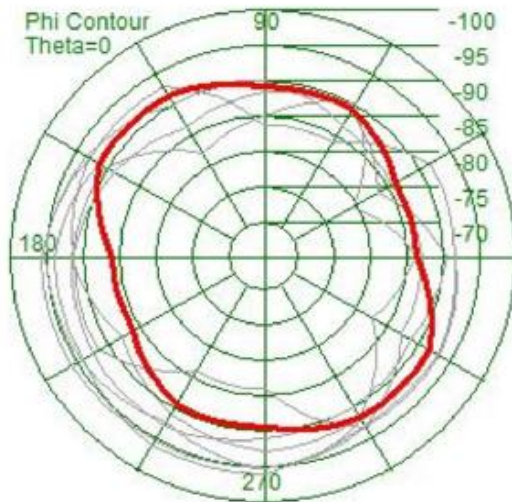
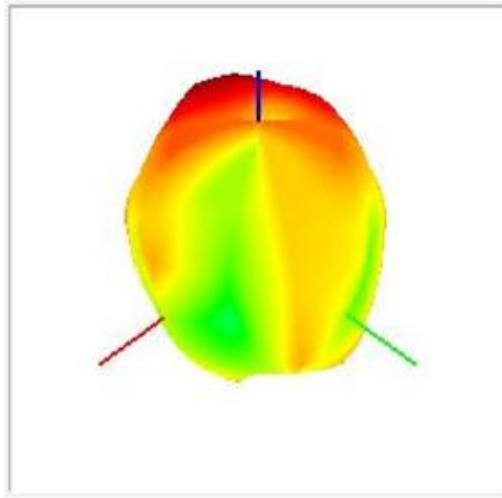
1 2D Pattern **BTANT**

TRP



2 2D Pattern **BTANT**

TIS



WORK REPORT

谢谢观看