



Customer	方成
Project	G267
Antenna Revision	A0
Prepared by	18814303605
Checked by	
Date :	2025. 12. 18

2. 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



Purpose

This report is to measure the performance of antenna for **G267** The antenna operating frequency at 2400MHz-2500MHz 。 All test data are showed as below.

Content

1. Product Overview & Dimension
2. Test system
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3.1 S11 Parameter

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3.3 2D Pattern

4. OTA

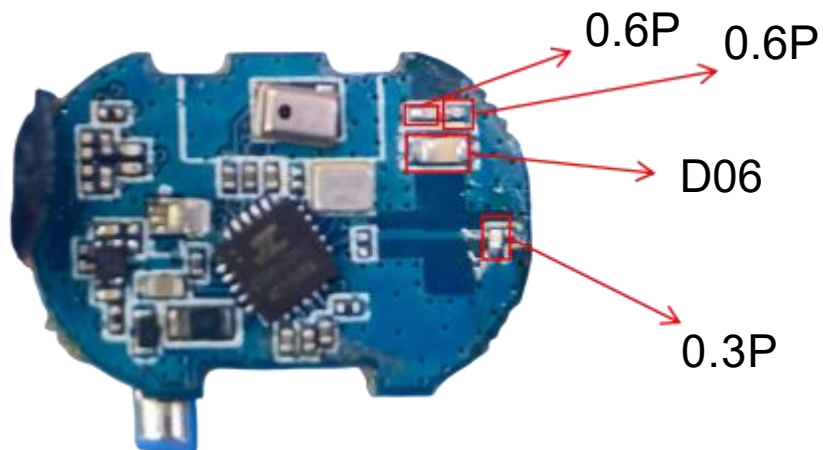
4.1 Test Result

4.2 2D Pattern

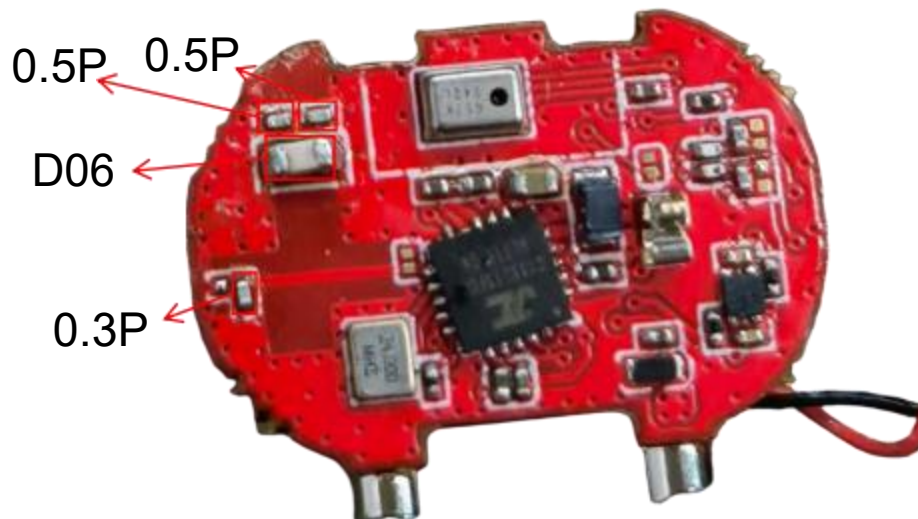


匹配图

L



R



装配图

L



电池包极耳朝上摆放，喇叭线放置在右上方区域



电池线和喇叭线长15mm拧4圈，在电池底部垫一块长9mm，宽7mm的垫棉. 1MM厚

R



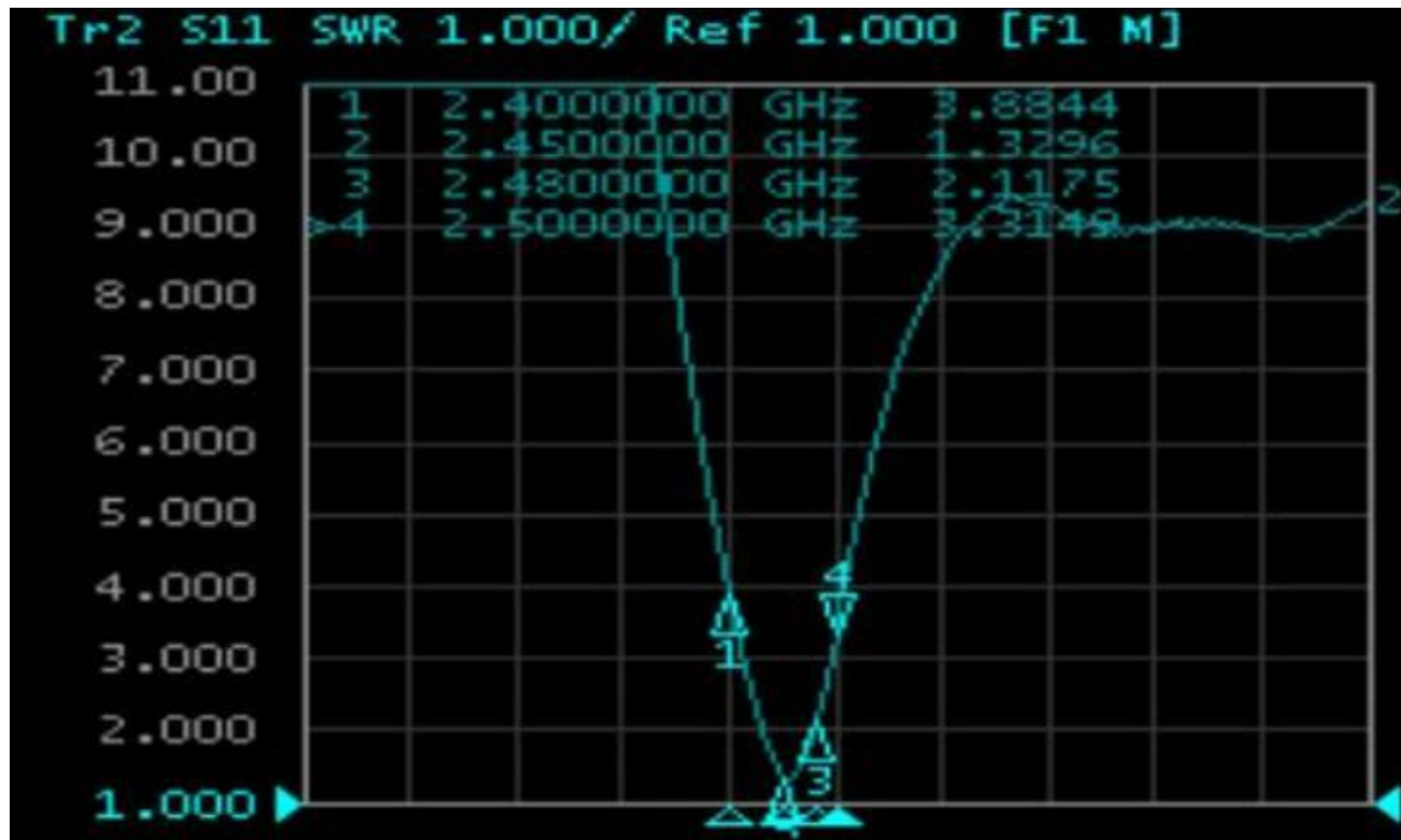
电池包极耳朝上摆放，喇叭线放置在左上方区域



电池线和喇叭线长15mm拧4圈，在电池底部垫一块长9mm，宽7mm的垫棉. 1MM厚

3. 1 Test Result

1 .S11 Parameter-VSWR



Frequency (MHz)	2400	2450	2480	2500
VSWR	3.88	1.32	2.11	3.31

3.1 Test Result

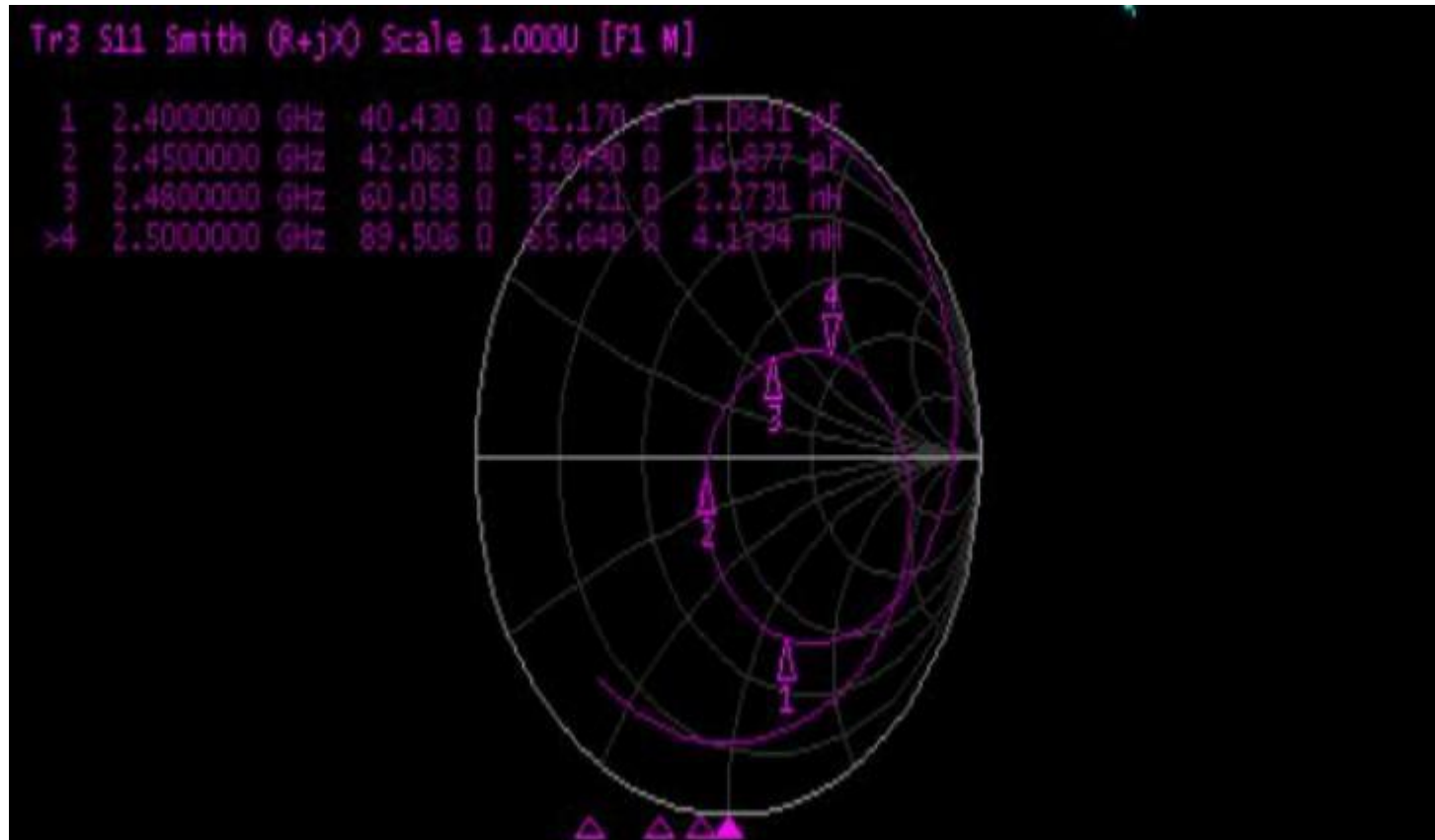
2. S11 Parameter-Log Mag



Frequency (MHz)	2400	2450	2480	2500
Log Mag	-4.84	-19.55	-9.77	-5.97

3. 1 Test Result

3.S11 Parameter-Smith



Frequency (MHz)	2400	2450	2480	2500
Smith(Ω)	40.43	42.06	60.05	89.50

3.2 Test Result

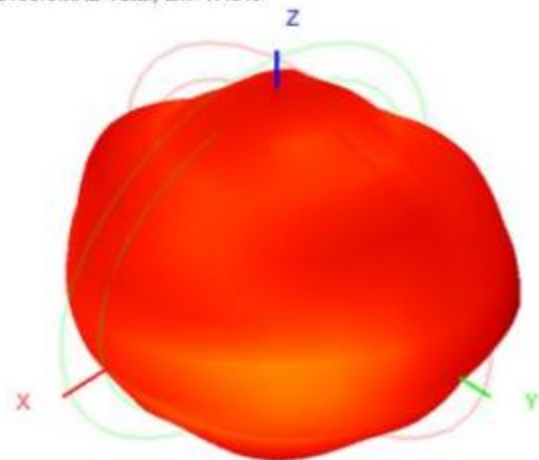
1 Gain & Efficiency—**ANT**

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	17.52%	-1.45
2410	17.75%	-1.75
2420	18.21%	-1.90
2430	19.09%	-1.74
2440	20.99%	-1.62
2450	21.48%	-1.60
2460	21.20%	-1.17
2470	20.29%	-1.02
2480	19.30%	-1.96

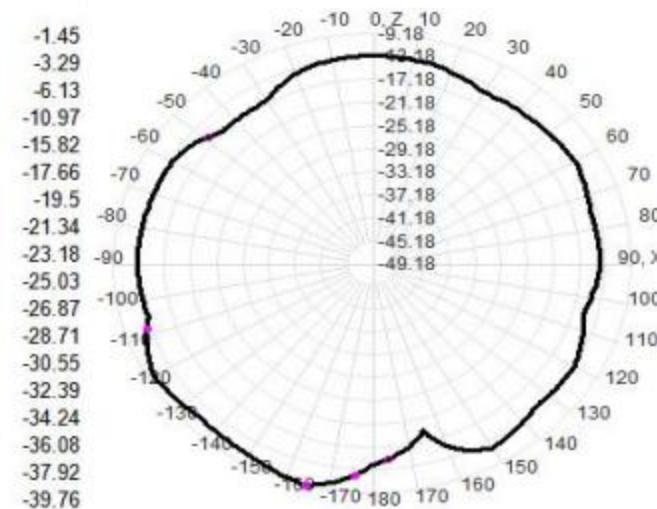
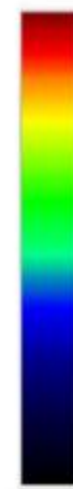
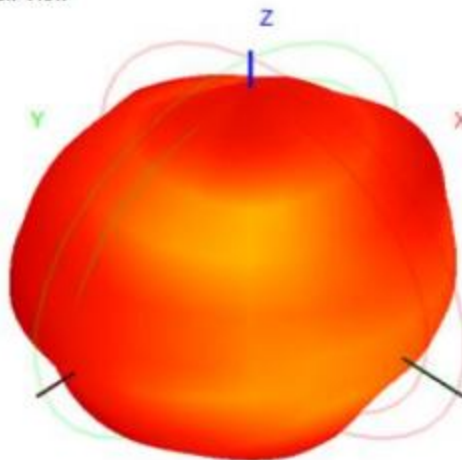
3.3 Test Result

1 2D Pattern—BTANT

2400.0MHz Total, Eff. 17.5%



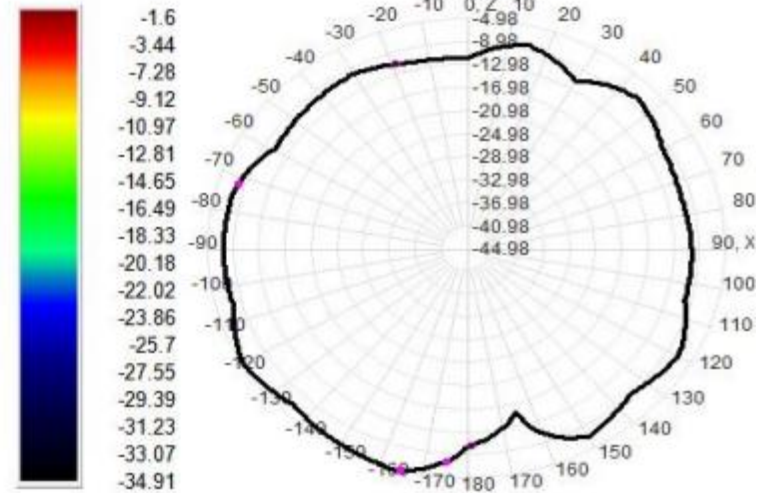
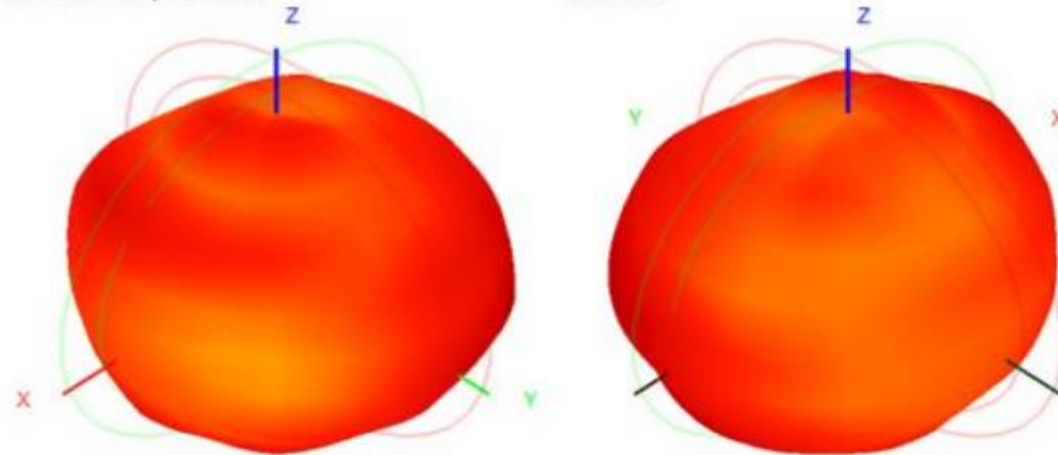
Back View



3.3 Test Result

2 2D Pattern—*BTANT*

2450.0MHz Total, Eff. 21.5%

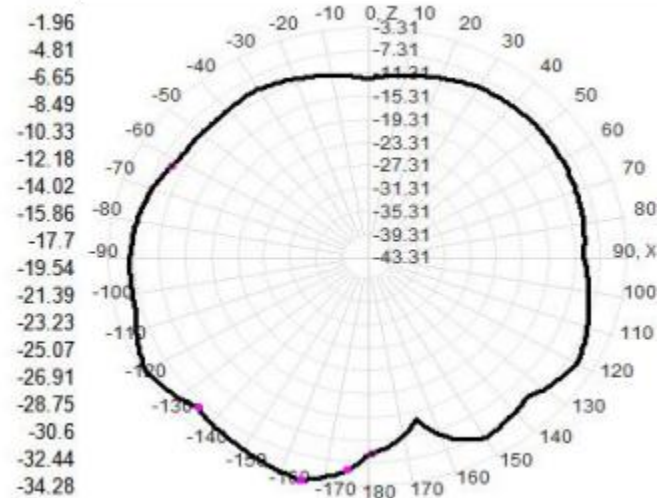
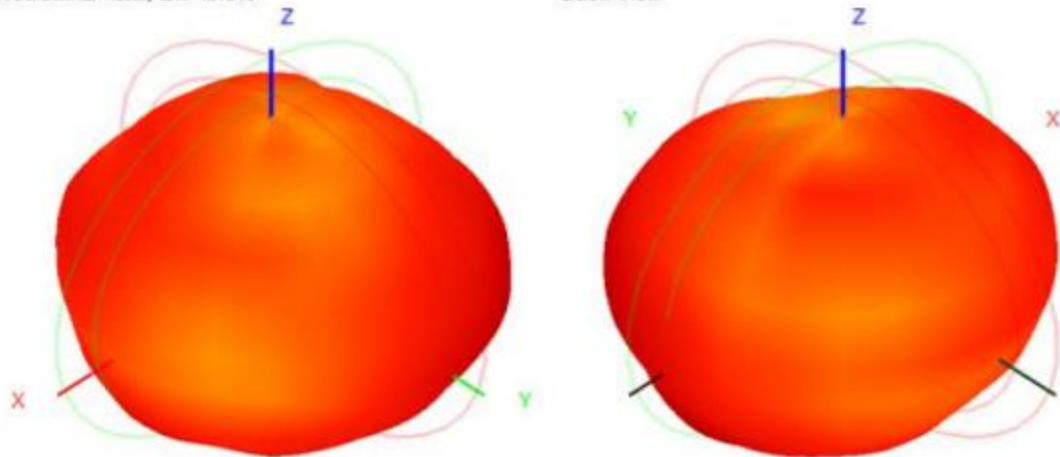


3.3 Test Result

3 2D Pattern—**BTANT**

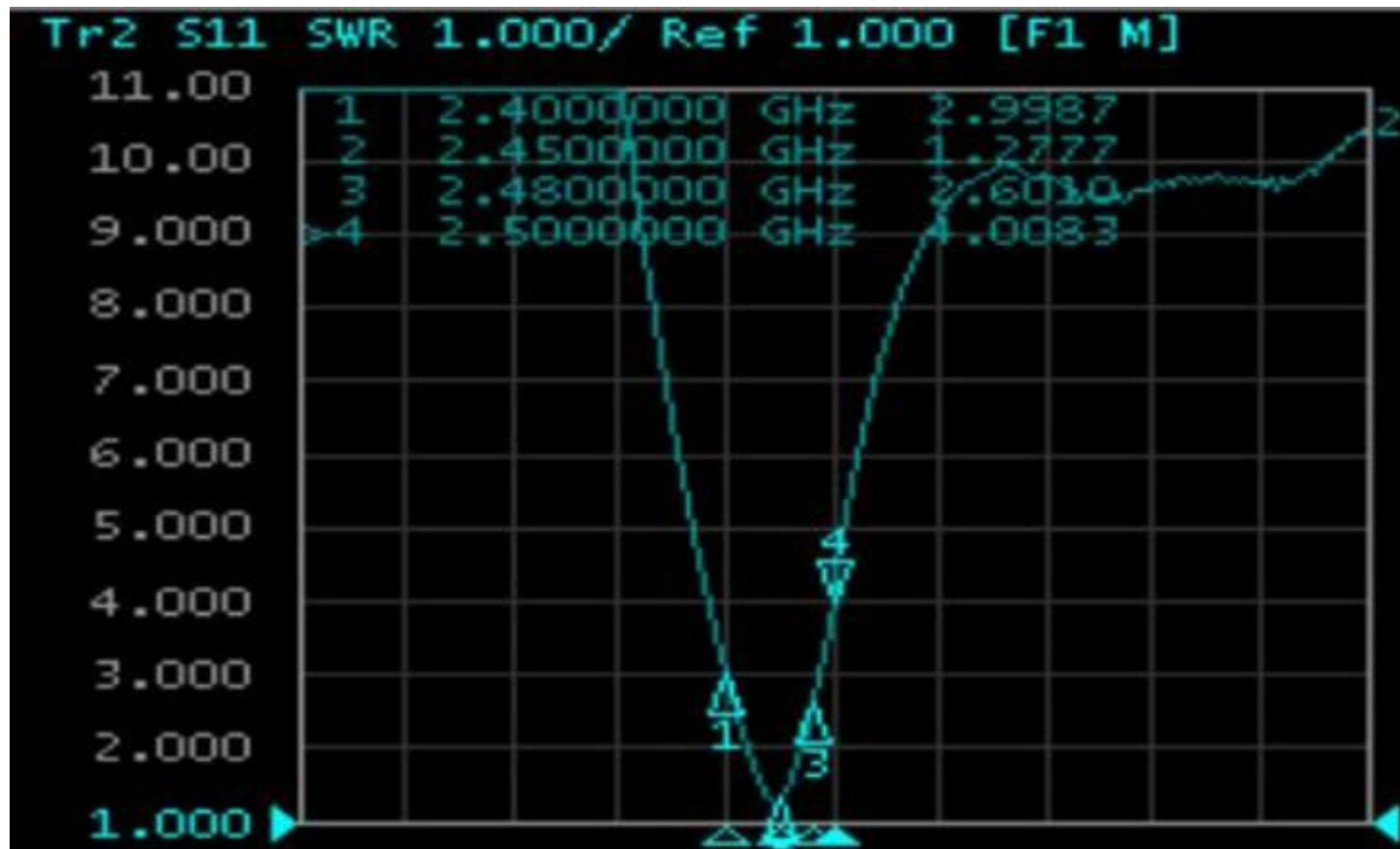
2480.0MHz Total, Eff. 19.3%

Back View



3. 1 Test Result

1 .S11 Parameter-VSWR



Frequency (MHz)	2400	2450	2480	2500
VSWR	2.99	1.27	2.60	4.00

3. 1 Test Result

2. S11 Parameter-Log Mag



Frequency (MHz)	2400	2450	2480	2500
Log Mag	-6.17	-17.53	-7.01	-4.45

3. 1 Test Result

3.S11 Parameter-Smith



Frequency (MHz)	2400	2450	2480	2500
Smith(Ω)	49.44	63.39	114.28	196.54

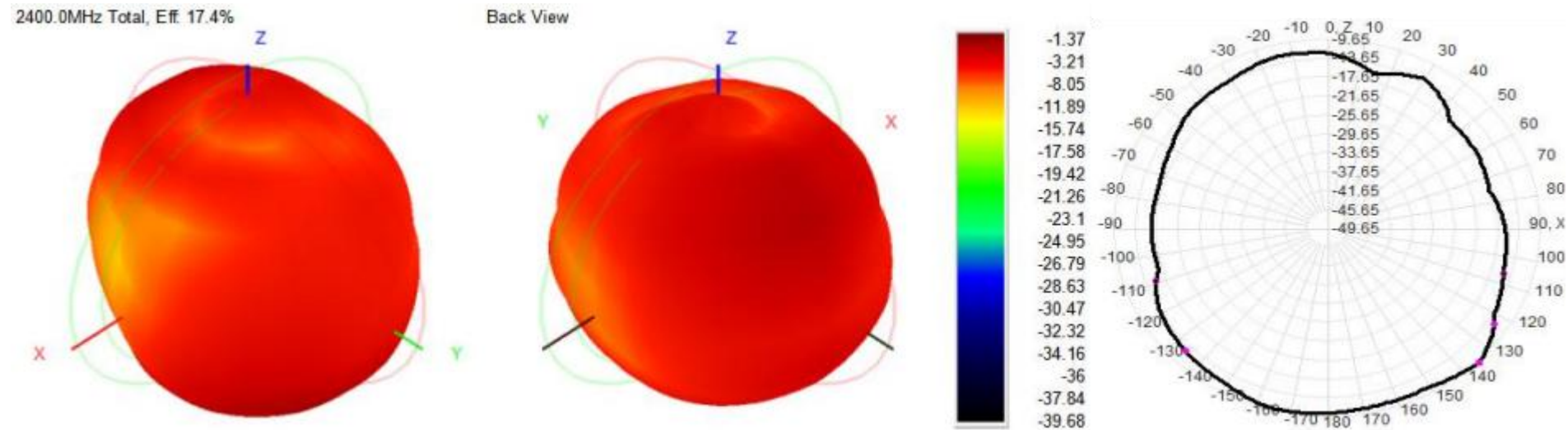
3.2 Test Result

1 Gain & Efficiency—**ANT**

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	17.43%	-1.37
2410	18.30%	-1.85
2420	19.38%	-1.52
2430	20.07%	-1.43
2440	20.54%	-0.86
2450	19.80%	-1.96
2460	19.35%	-1.74
2470	18.73%	-2.87
2480	18.48%	-1.77

3.3 Test Result

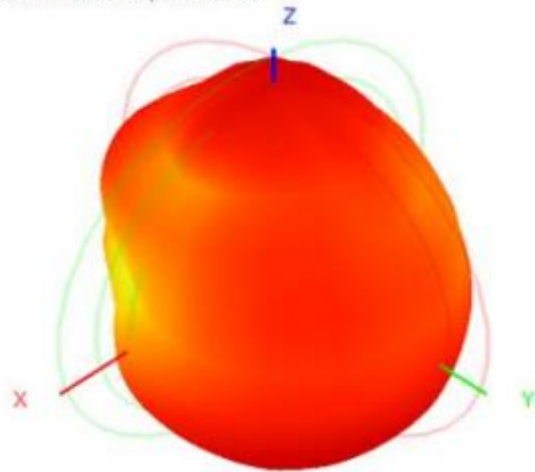
1 2D Pattern—BTANT



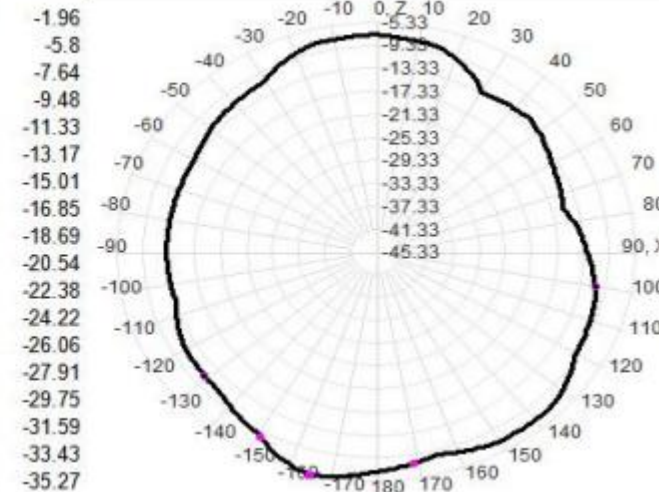
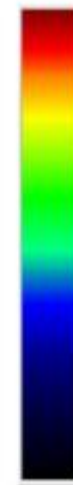
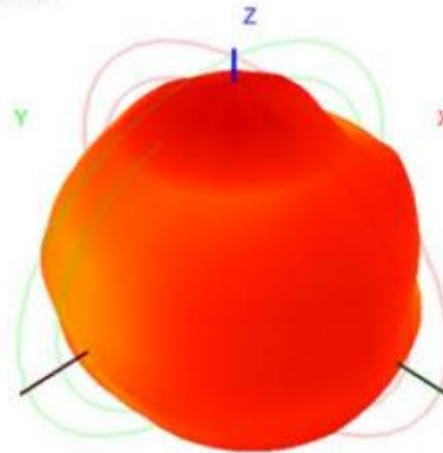
3.3 Test Result

2 2D Pattern—BTANT

2450.0MHz Total, Eff. 19.8%



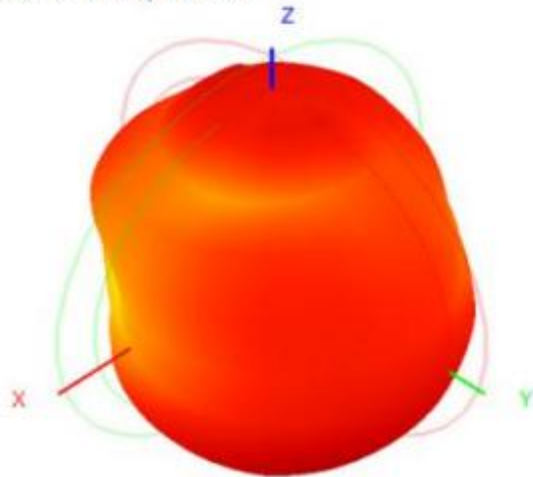
Back View



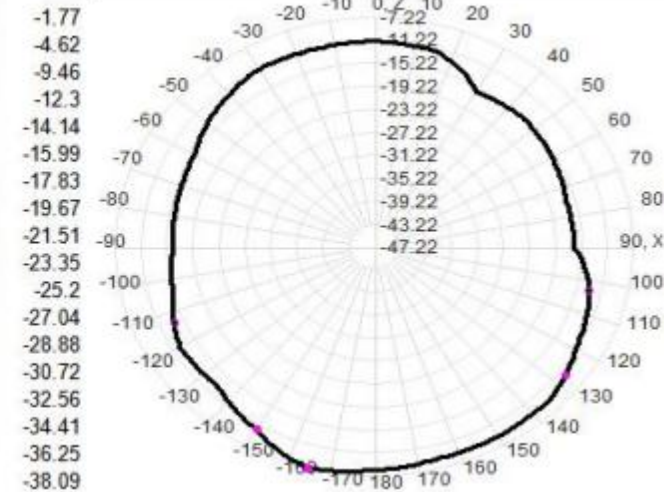
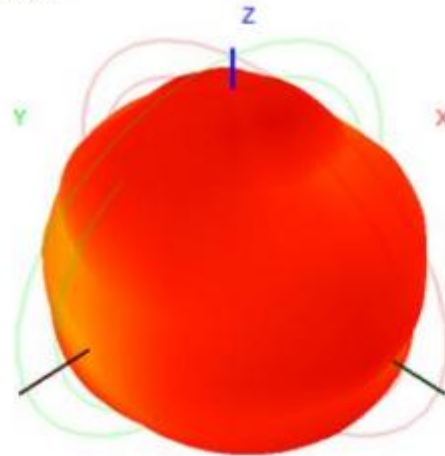
3.3 Test Result

3 2D Pattern—**BTANT**

2480.0MHz Total, Eff. 18.5%



Back View



4.1 OTA Data

合立讯调整匹配和装配后测试数据

Test Equipment:	R&S CMW500		
Test Condition:	2 D chamber		
Band	Channel	TRP(dBm)	TIS(dBm)
BT-L	0	-2.24	-85.84
	39	1.73	-82.68
	78	1.67	-83.82
BT-R	0	0.06	-87.15
	39	2.48	-87.29
	78	2.52	-86.35

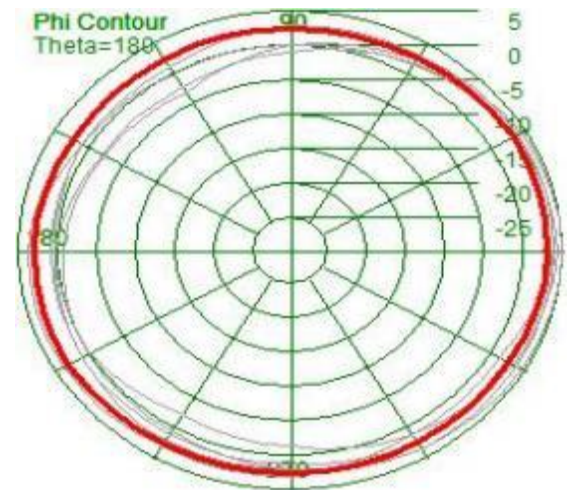
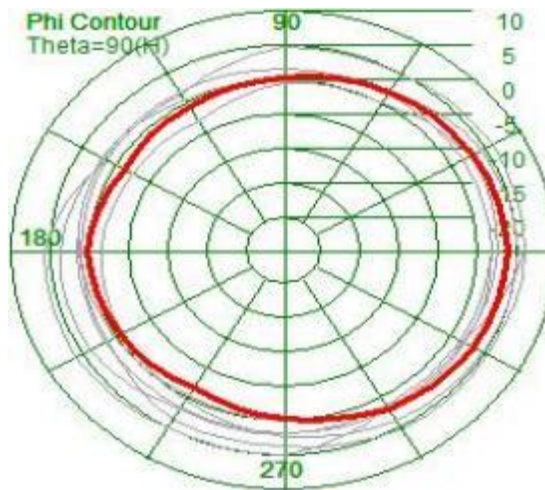
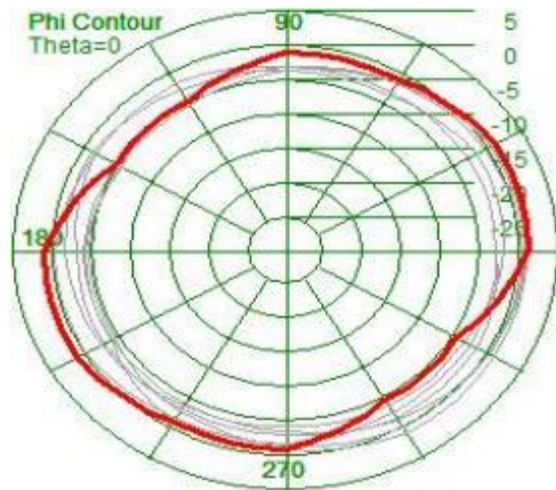
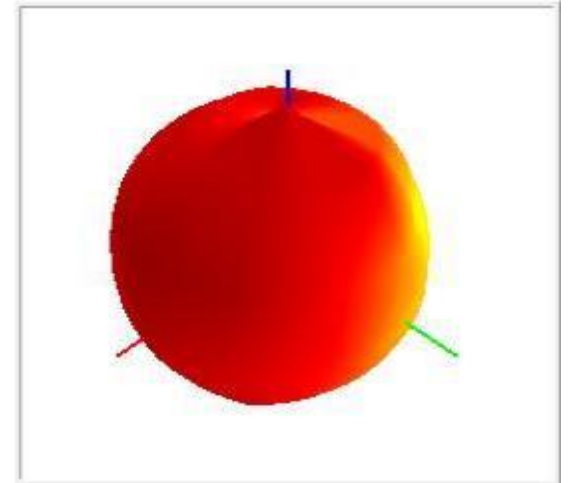
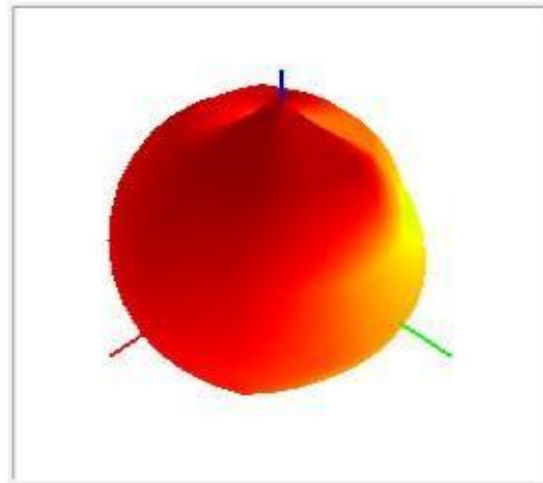
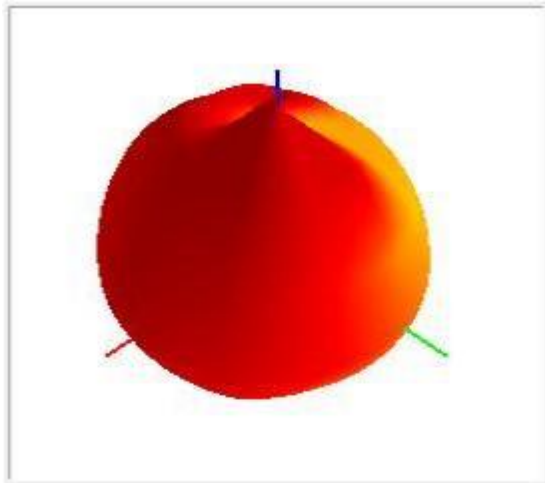
4.2 Test Result

L

1 2D Pattern——**BTANT**

TRP

1#机测试数据



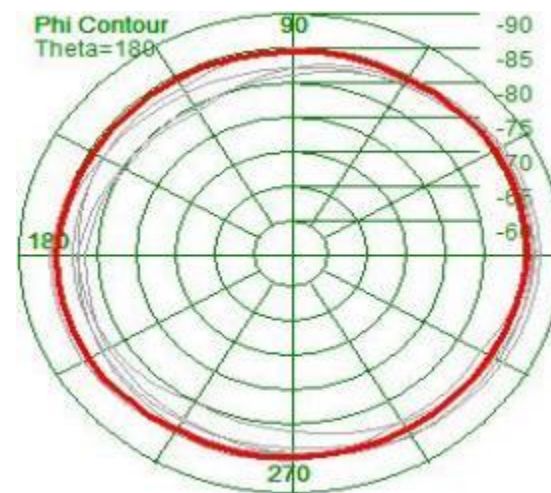
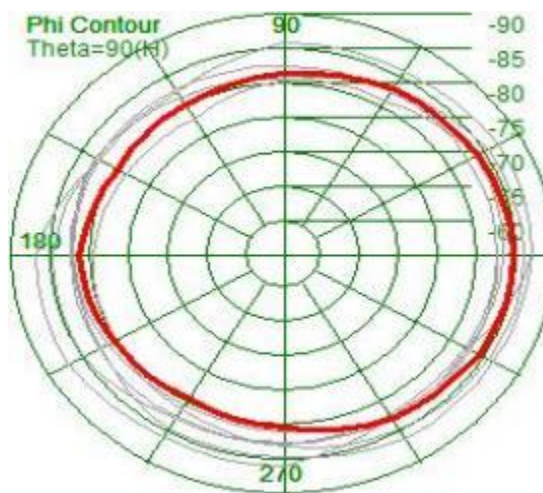
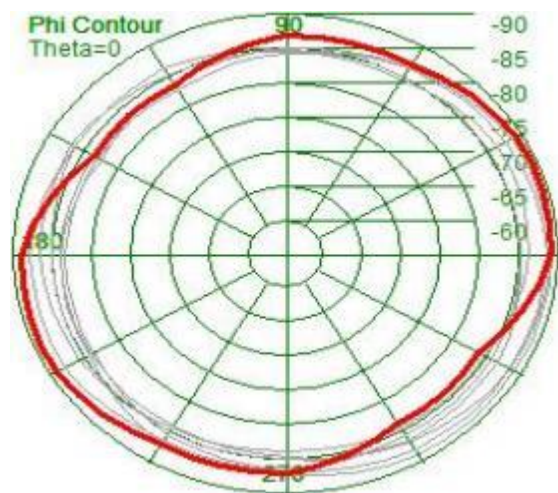
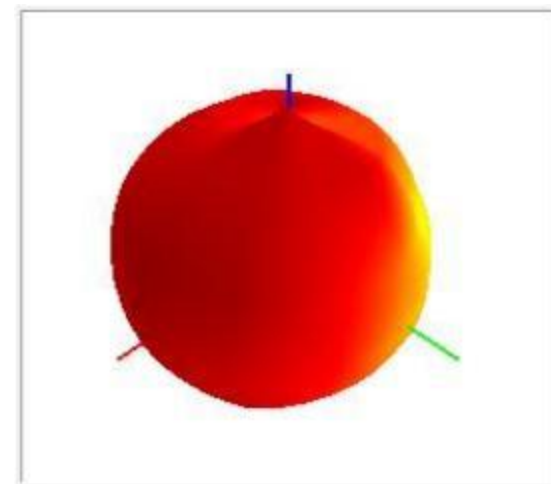
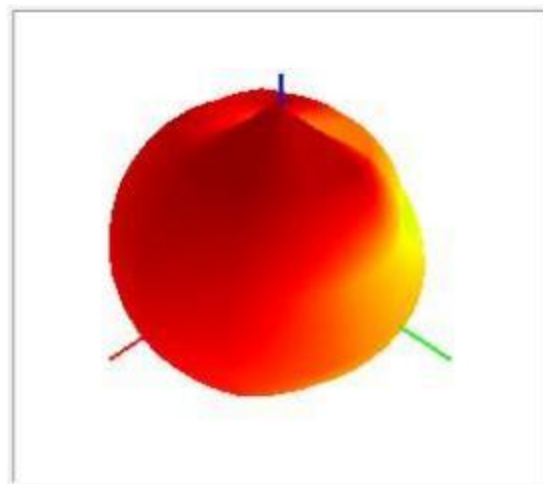
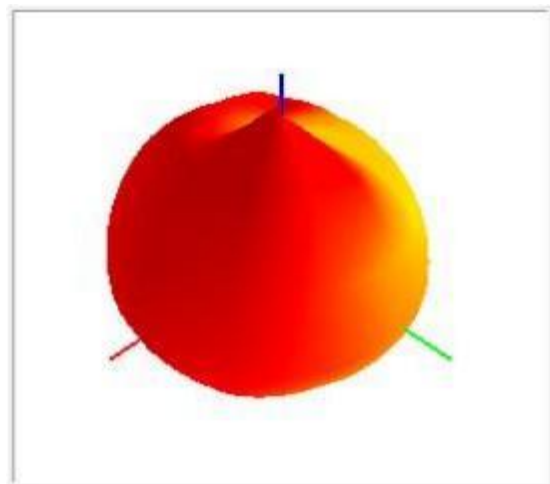
4.2 Test Result

L

2 2D Pattern——**BTANT**

TIS

1#机测试数据



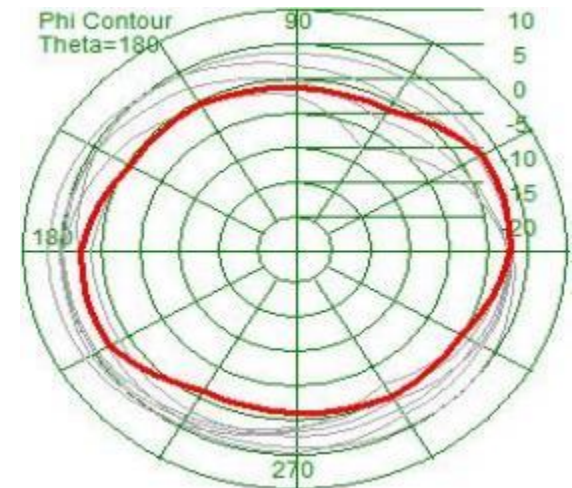
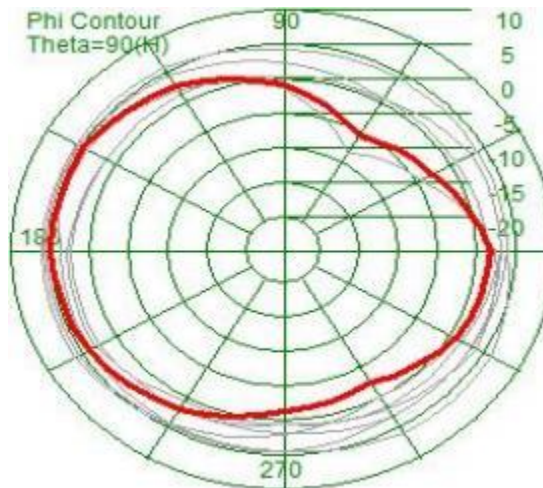
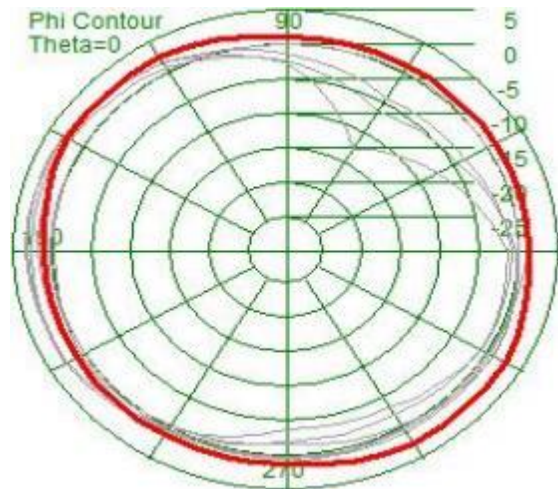
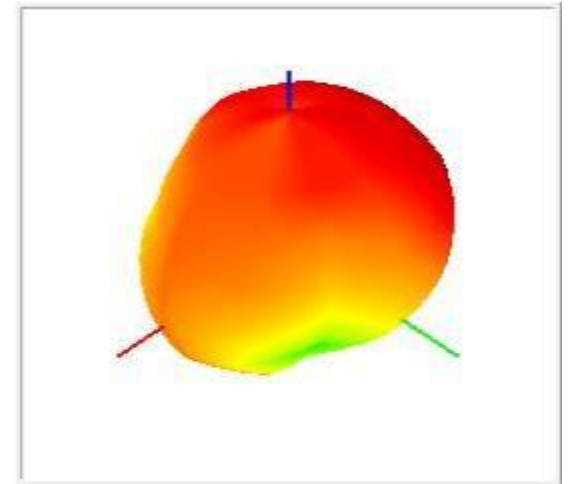
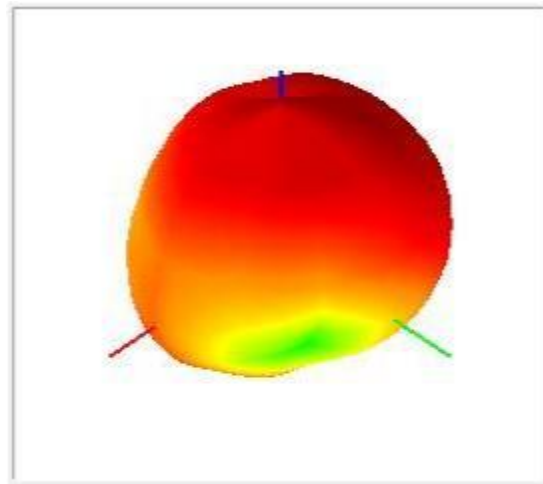
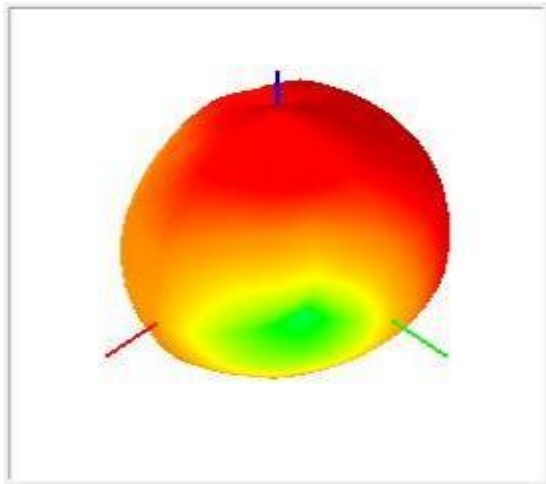
4.2 Test Result

R

1 2D Pattern——**BTANT**

TRP

1#机测试数据



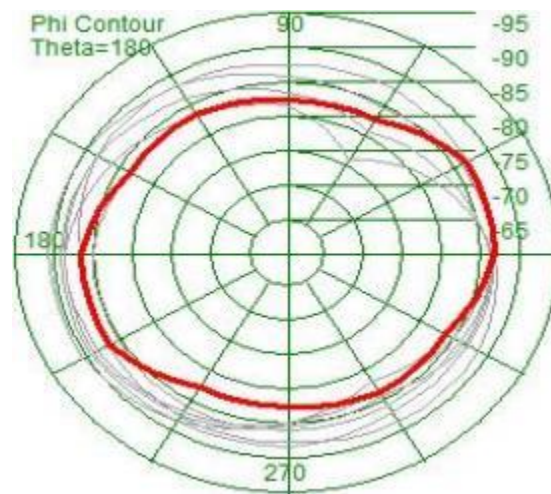
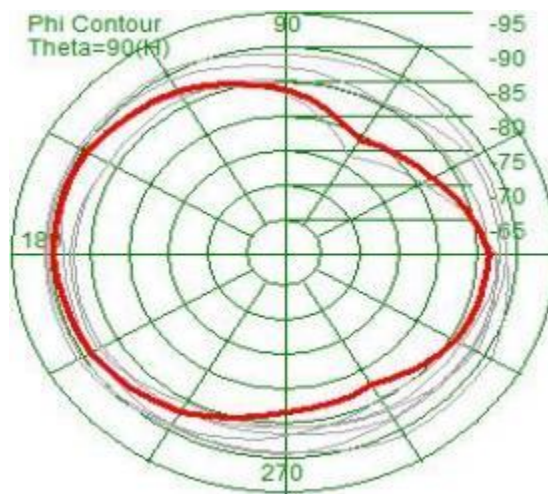
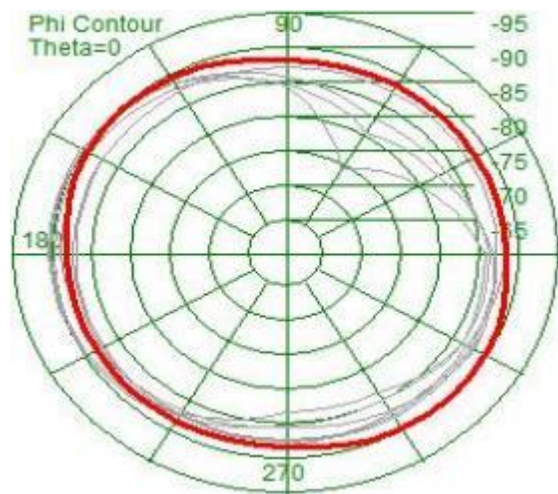
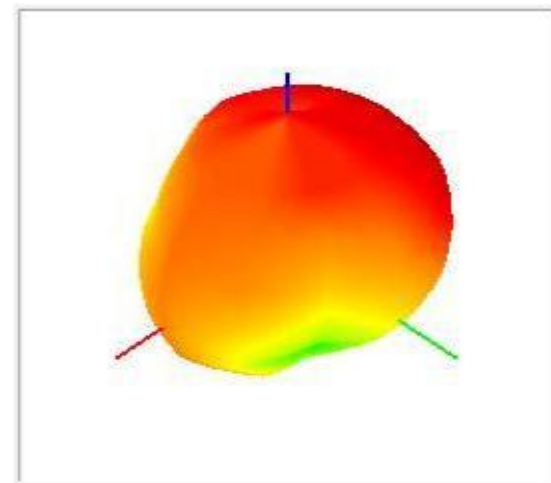
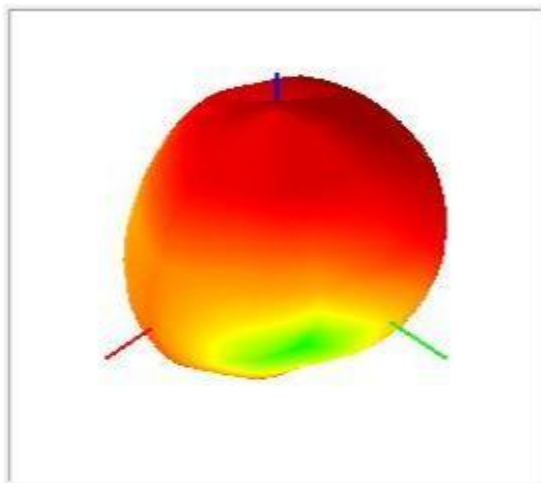
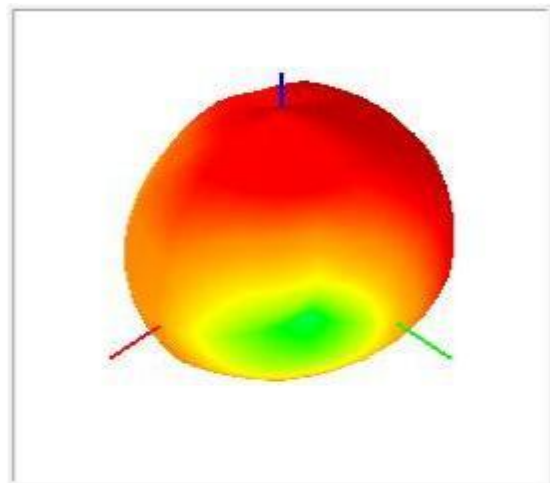
4.2 Test Result

R

2 2D Pattern——**BTANT**

TIS

1#机测试数据



4.1 OTA Data

合立讯调整匹配和装配后测试数据

Test Equipment:	R&S CMW500		
Test Condition:	2 D chamber		
Band	Channel	TRP(dBm)	TIS(dBm)
BT-L	0	-0.27	-84.84
	39	1.72	-82.79
	78	0.22	-83.89
BT-R	0	2.94	-86.43
	39	4.11	-85.01
	78	1.79	-85.43

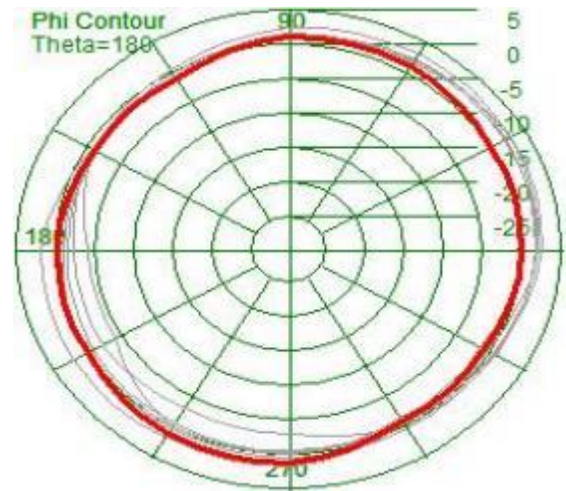
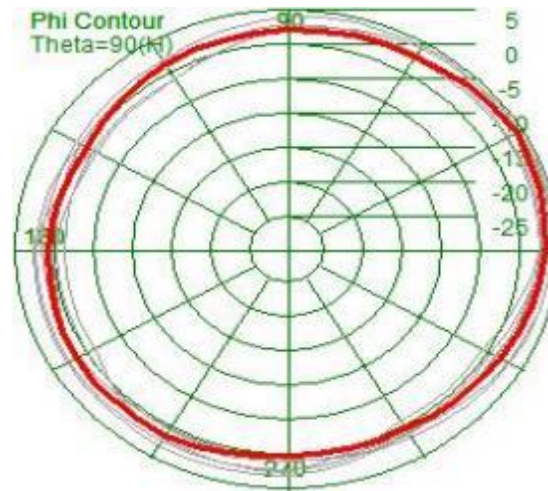
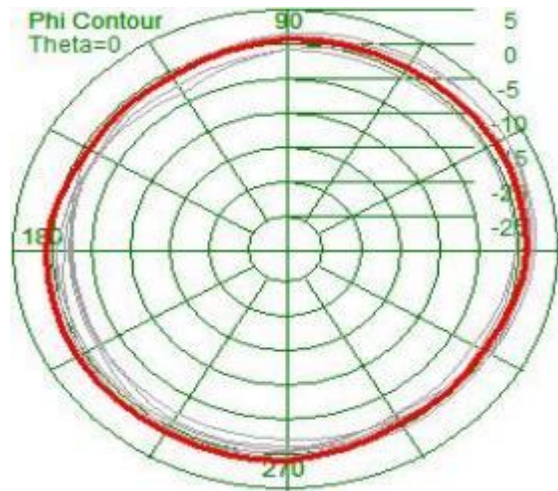
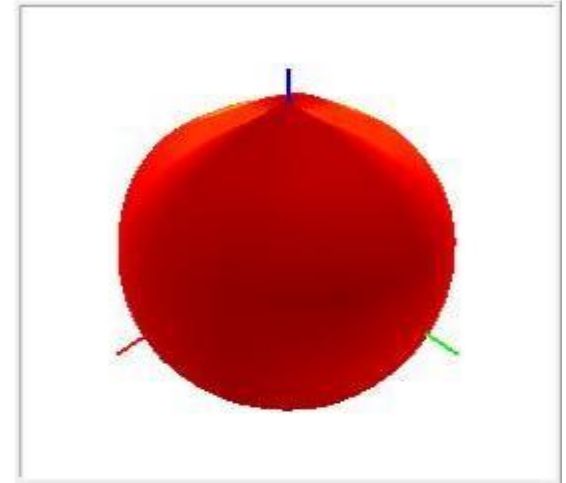
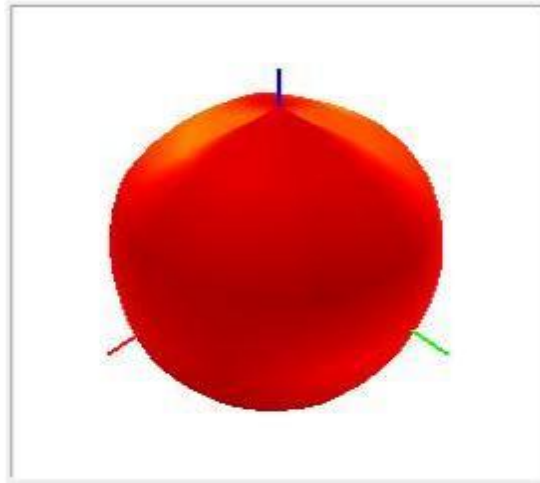
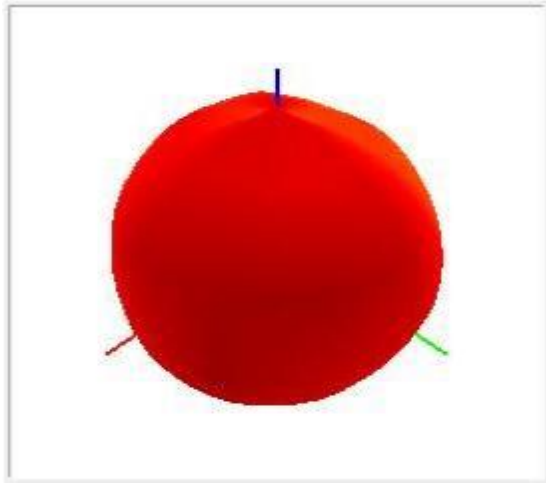
4.2 Test Result

L

1 2D Pattern——**BTANT**

TRP

2#机测试数据



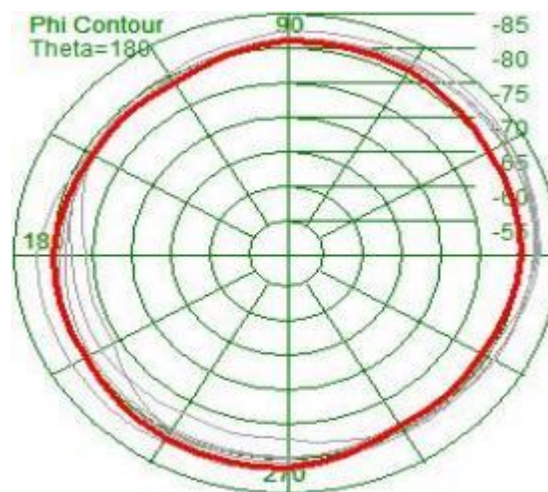
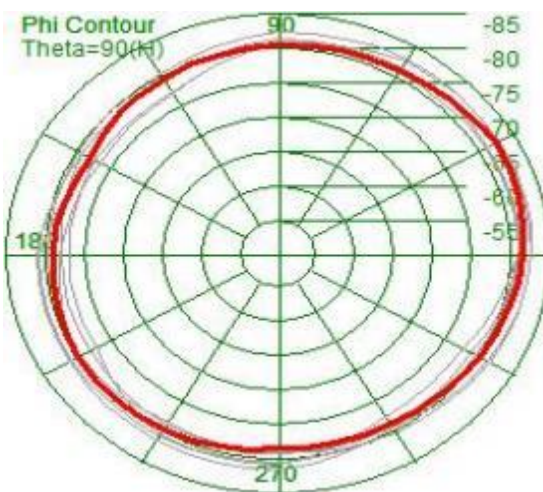
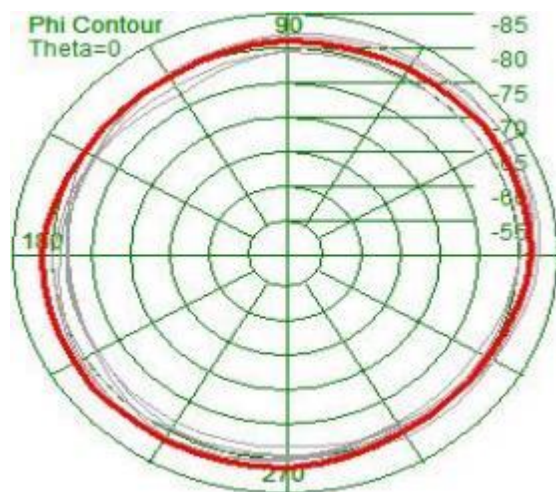
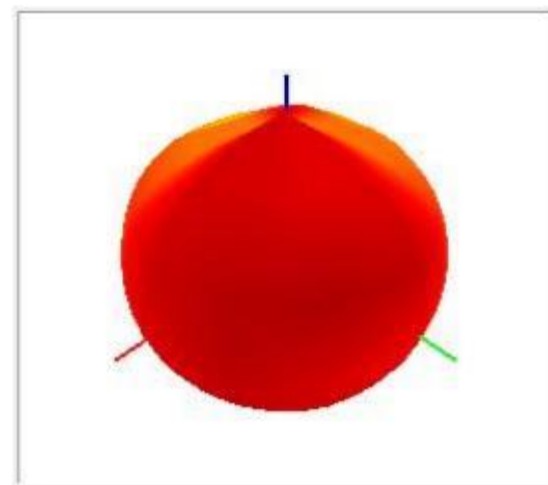
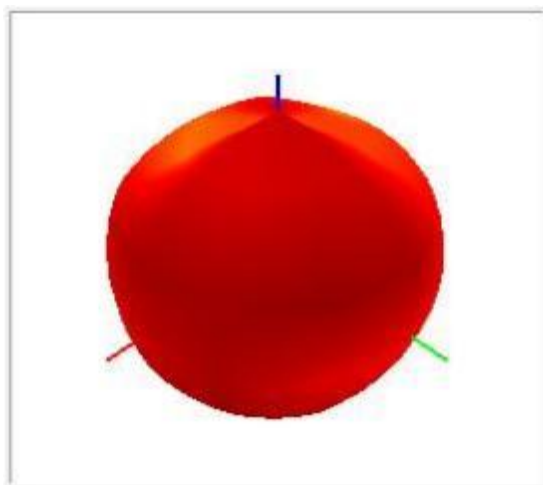
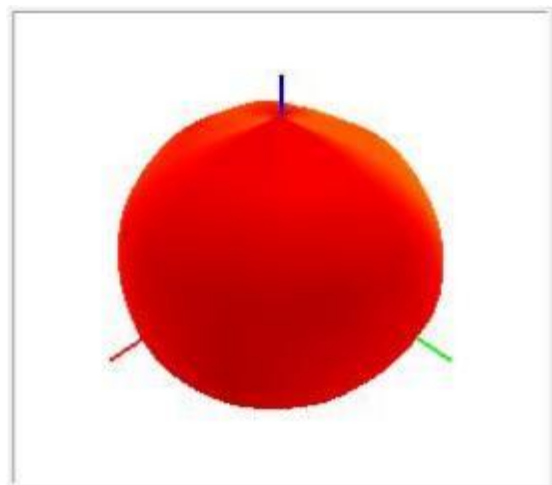
4.2 Test Result

L

2 2D Pattern——**BTANT**

TIS

2#机测试数据



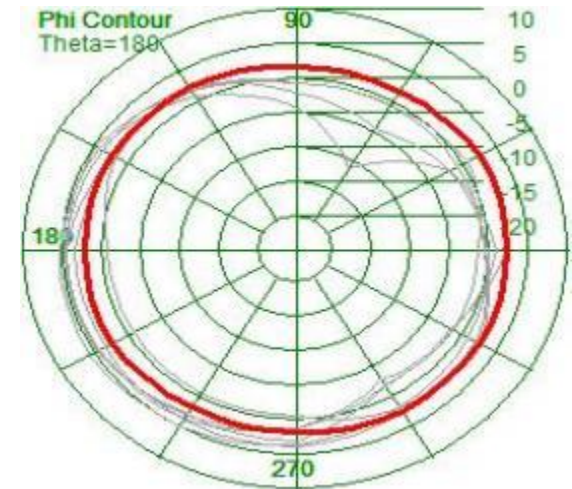
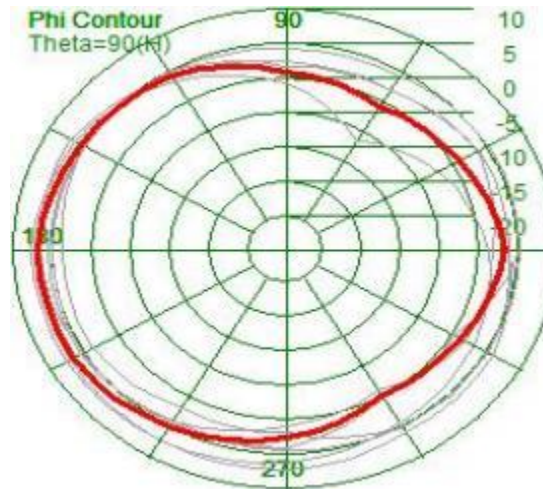
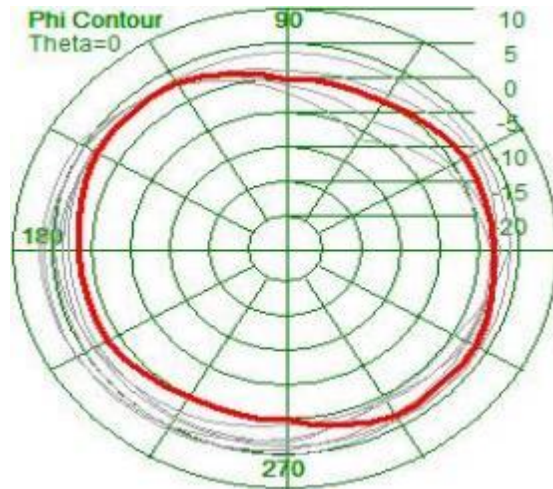
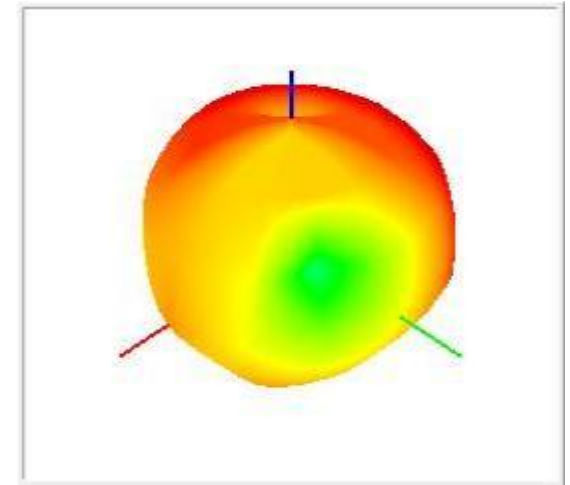
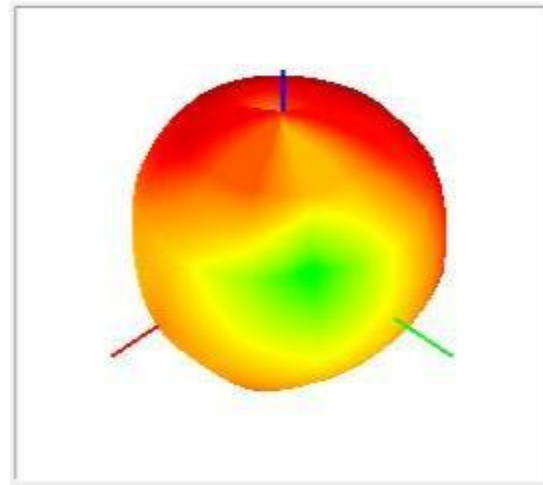
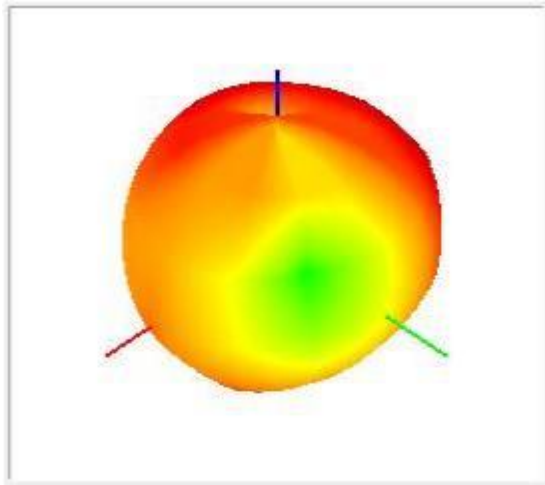
4.2 Test Result

R

1 2D Pattern——**BTANT**

TRP

2#机测试数据



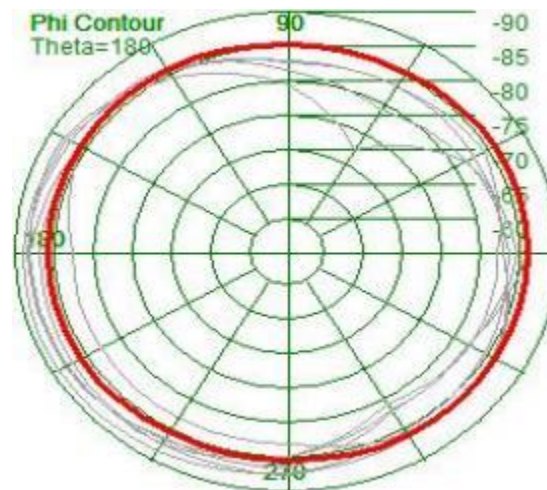
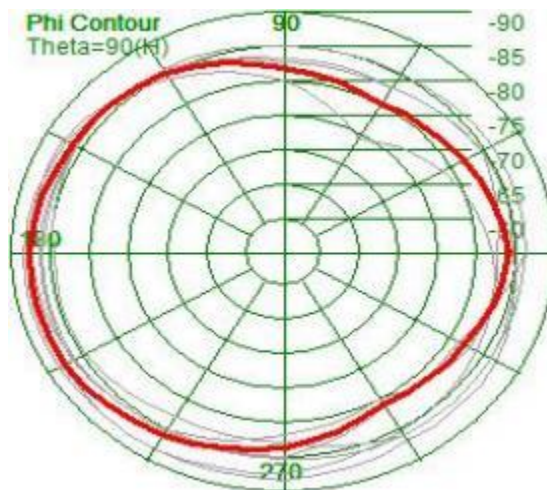
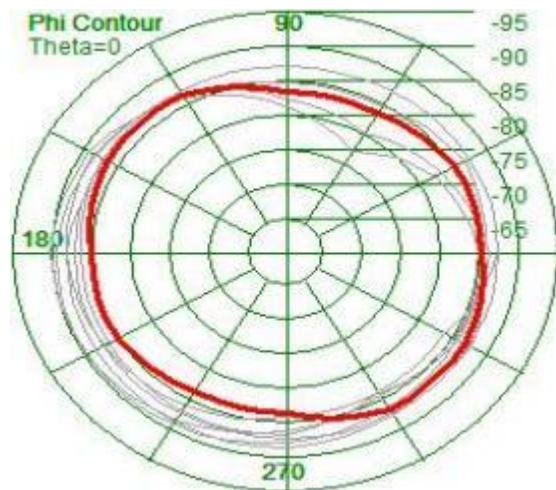
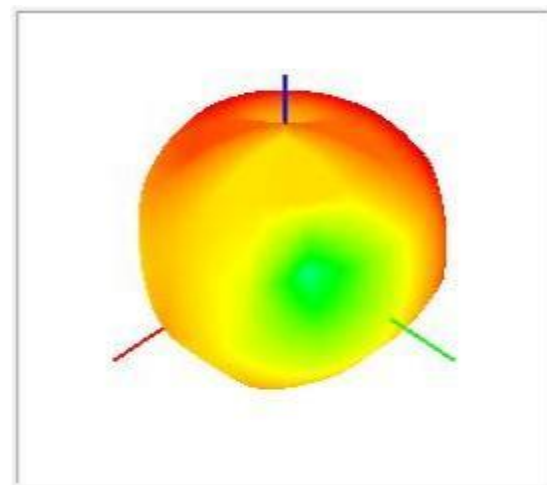
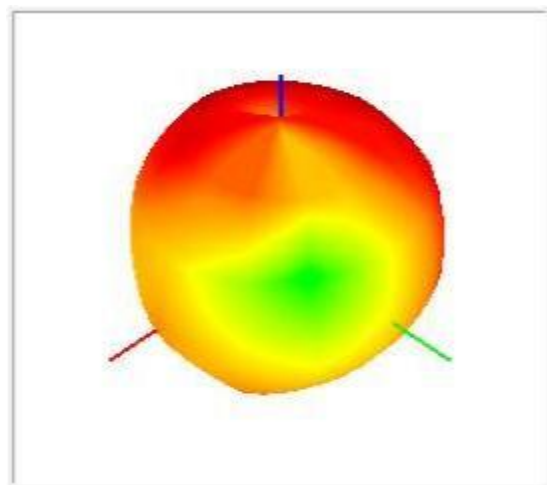
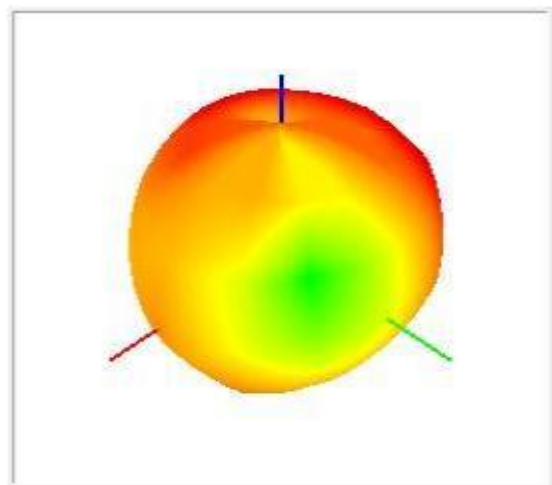
4.2 Test Result

R

2 2D Pattern——**BTANT**

TIS

2#机测试数据



Thank you!