



Antenna Specification



Customer	Jialide
Project	H6
Antenna Revision	A0
Prepared by	18814303605
Checked by	
Date :	2025.06.24

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 **H6** The antenna operating frequency at 2400MHz-2500MHz 。 All test data are showed as below.

Content

1. Product Overview & Dimension
2. Test system
3. Test Result

3.1 S11 Parameter

3.2 Gain & Efficiency

3.3 2D Pattern

4. OTA

4.1 Test Result

4.2 2D Pattern

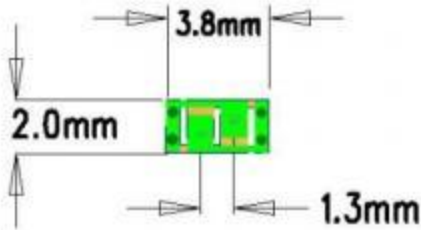
Inverted F Antenna Specification

Summary

ITEM	ANT SPEC
Model Name	2.4G ANT
Polarization	Horizontal and Vertical
Azimuth Beam Pattern	Omni-directional
Impedance	50 Ohm
Antenna Length	3.8mm
Manufacture	ZHUHAI JIELI TECHNOLOGY CO.,LTD

Antenna Photo & Length

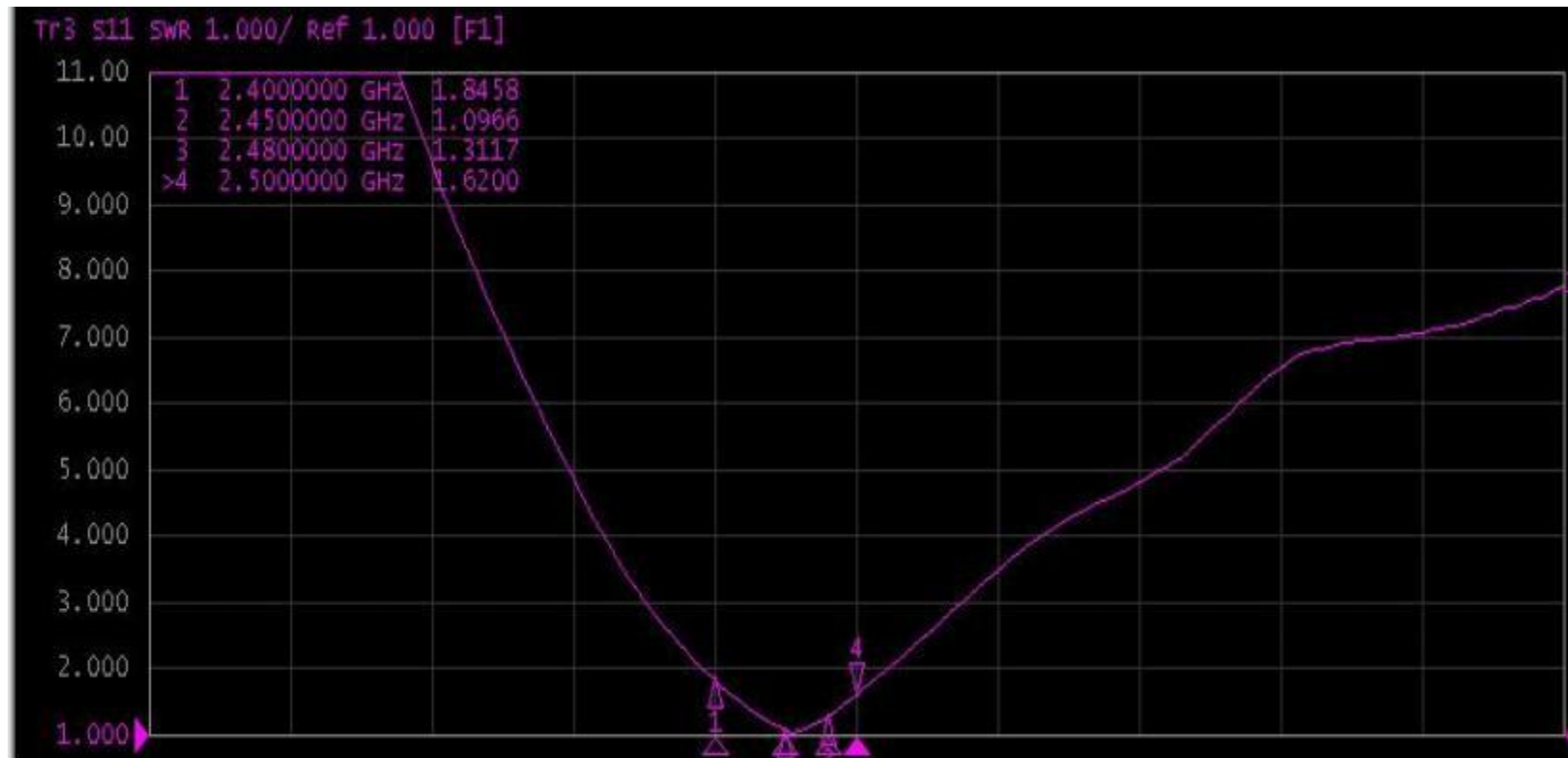
(mm)



PCB Antenna

3. 1 Test Result

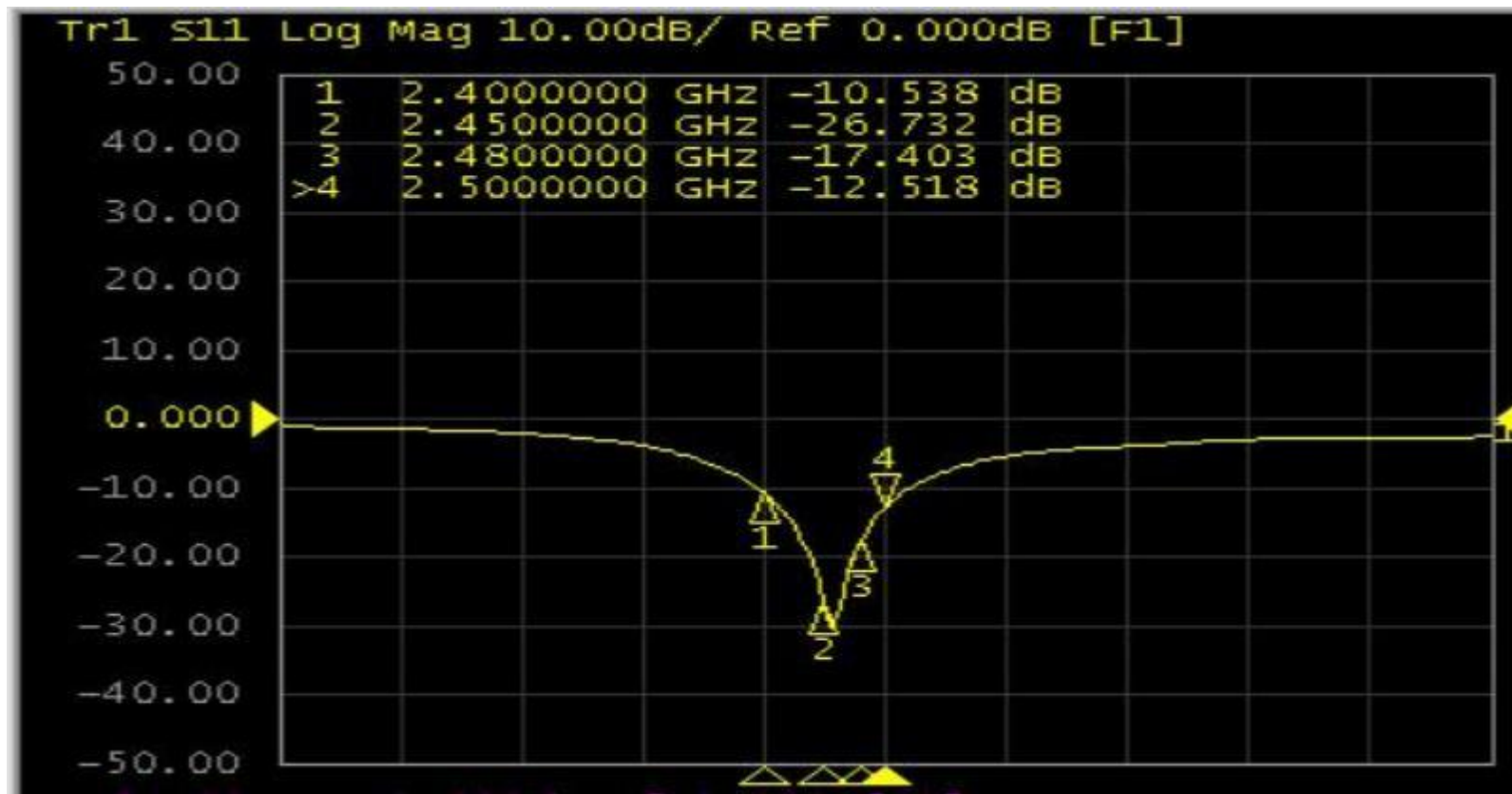
1 .S11 Parameter-VSWR



Frequency (MHz)	2400	2450	2480	2500
VSWR	1.84	1.09	1.31	1.62

3.1 Test Result

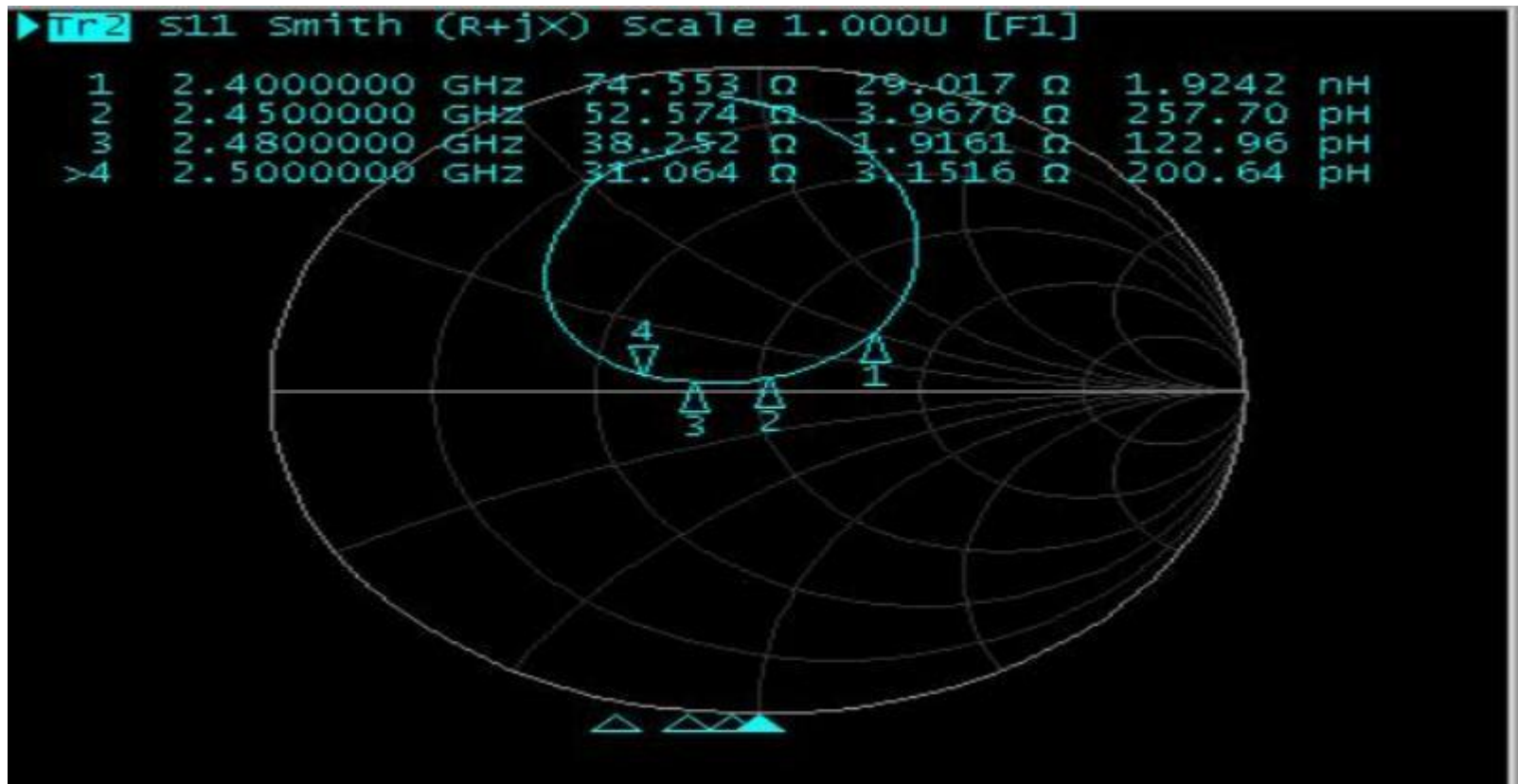
2. S11 Parameter-Log Mag



Frequency (MHz)	2400	2450	2480	2500
Log Mag	-10.53	-26.73	-17.40	-12.51

3.1 Test Result

3.S11 Parameter-Smith



Frequency (MHz)	2400	2450	2480	2500
Smi th(Ω)	74.55	52.57	38.25	31.06

3.2 Test Result

1 Gain & Efficiency—**ANT**

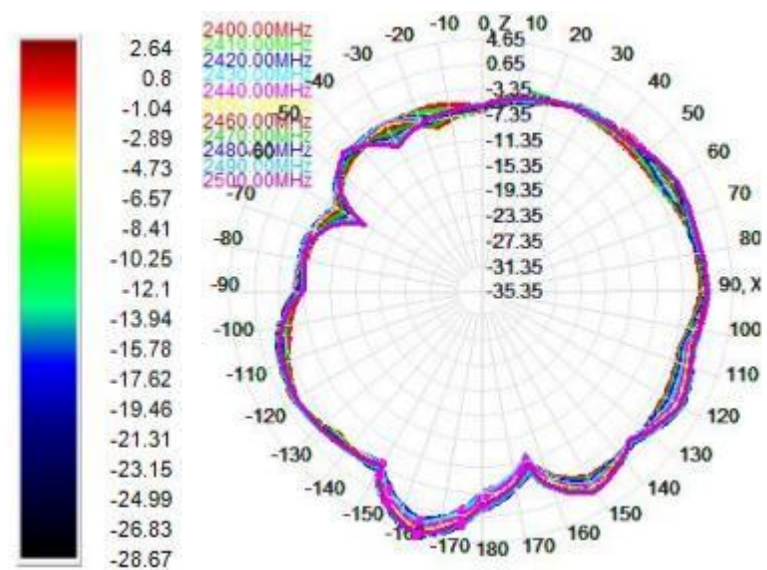
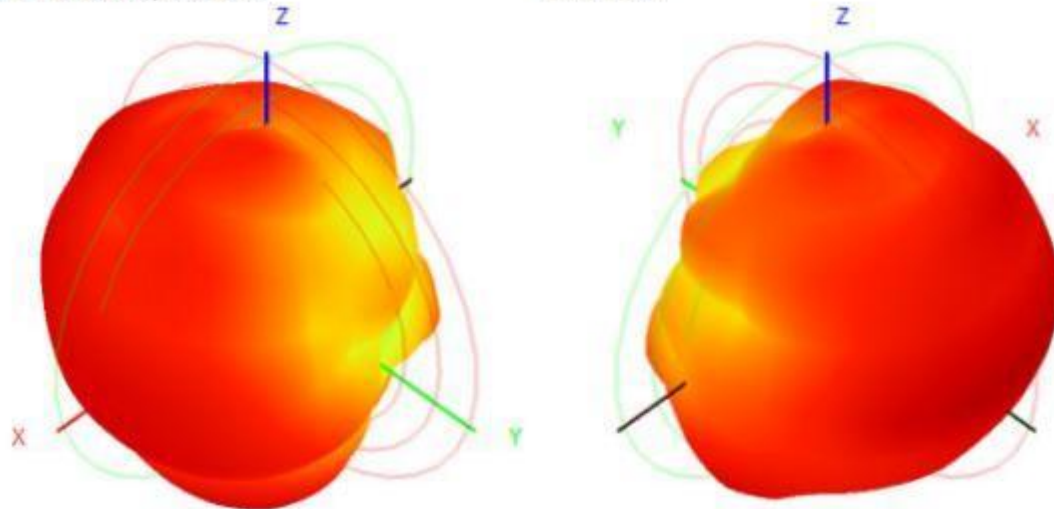
Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	49.30	2.64
2410	51.32	2.47
2420	52.96	2.25
2430	54.76	2.88
2440	56.42	3.60
2450	58.24	4.24
2460	57.42	3.63
2470	56.22	3.37
2480	55.48	3.22

3.3 Test Result

1 2D Pattern——BTANT

2400.0MHz Total, Eff: 49.3%

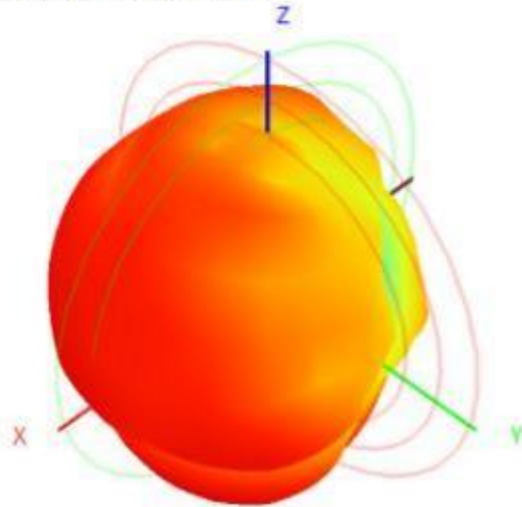
Back View



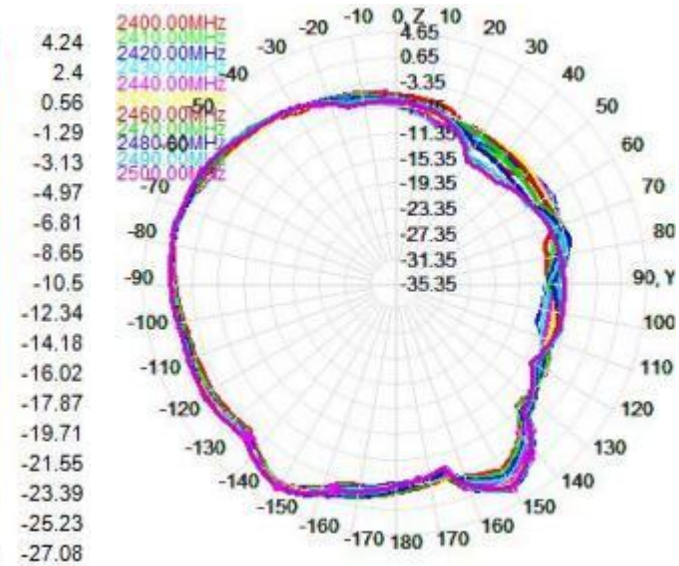
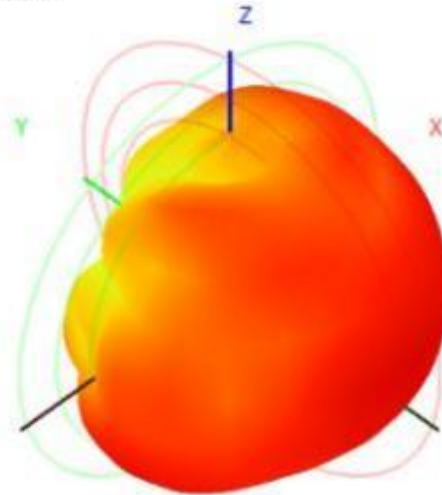
3.3 Test Result

2 2D Pattern——BTANT

2450.0MHz Total, Eff: 58.2%

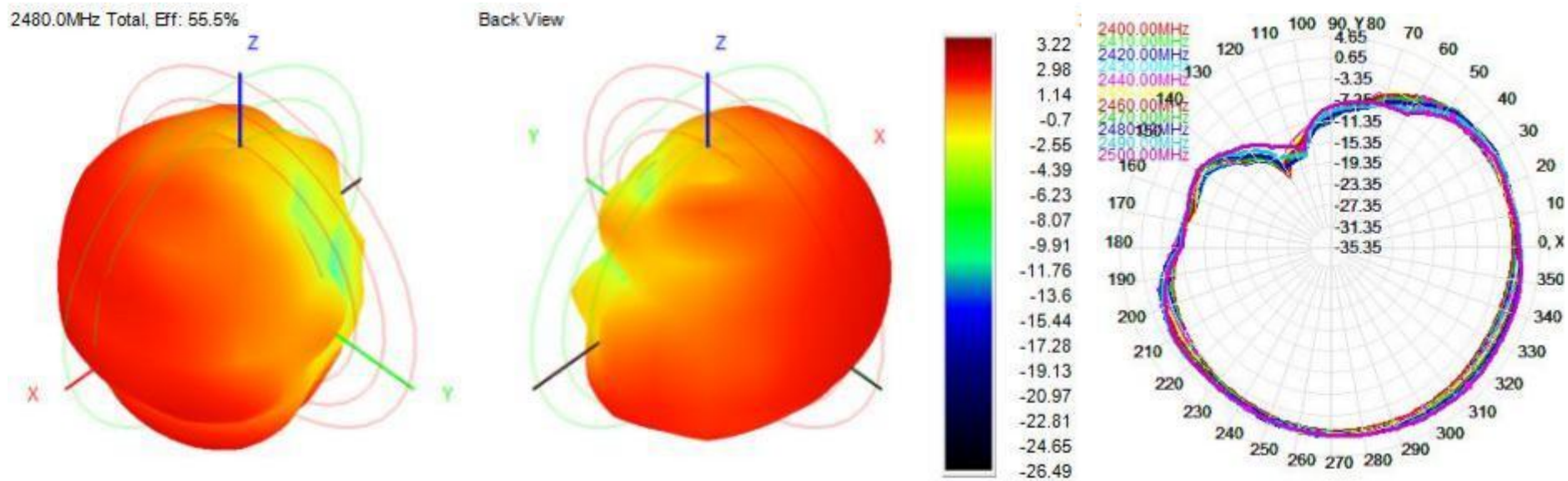


Back View



3.3 Test Result

3 2D Pattern—BTANT



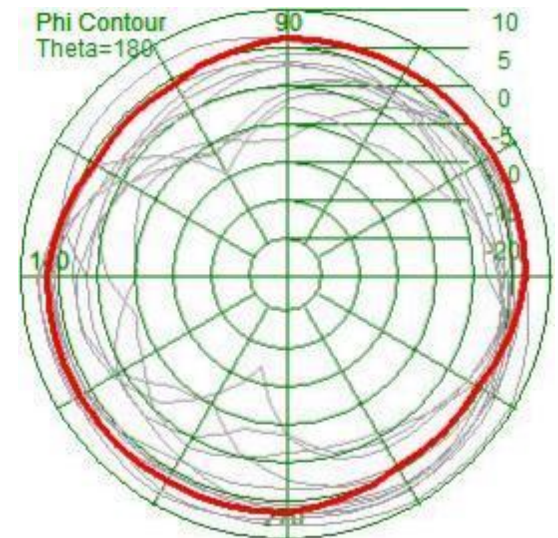
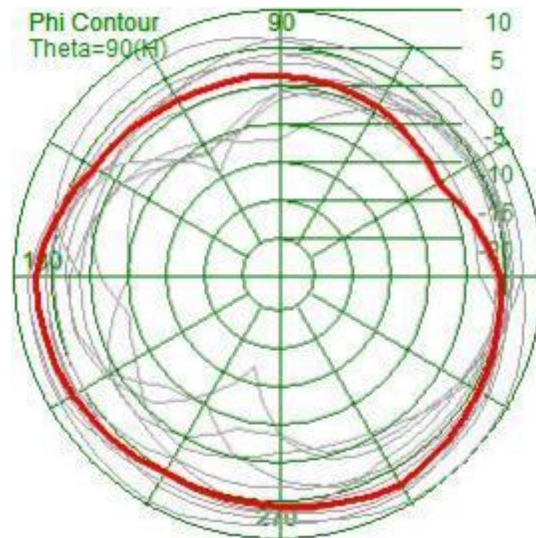
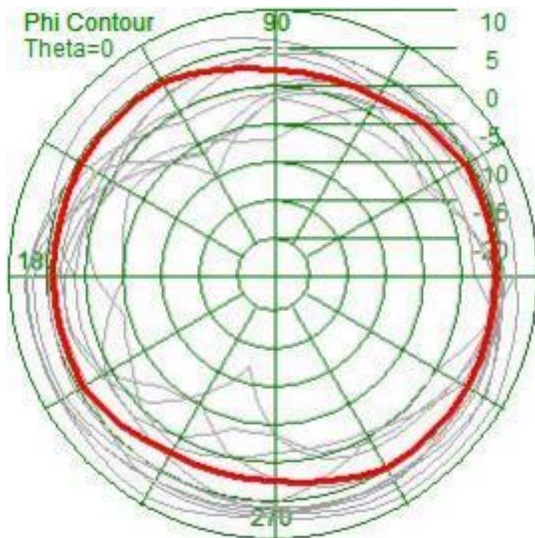
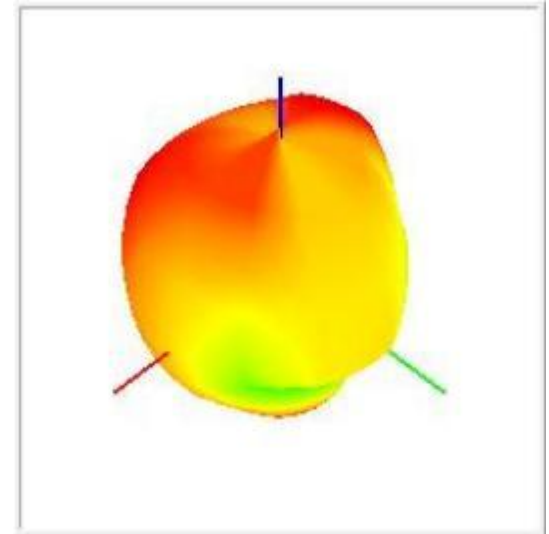
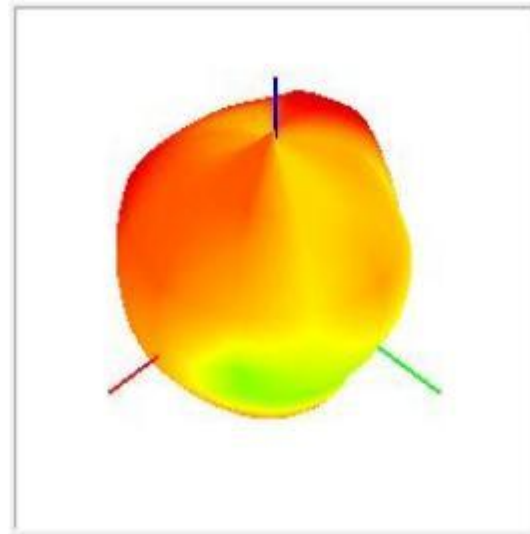
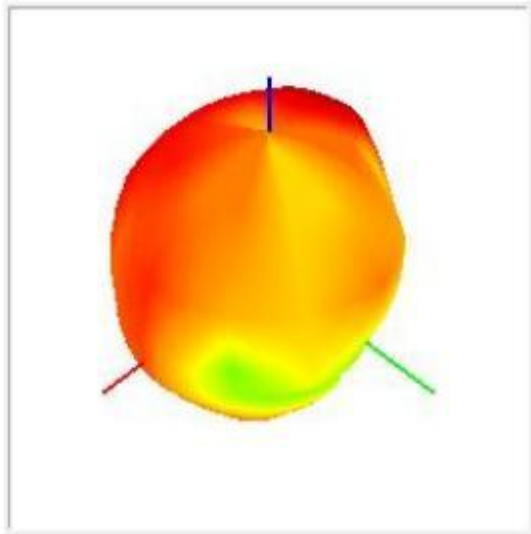
4.1 OTA Data

Test Equipment:	R&S CMW500		
Test Condition:	2 D chamber		
Band	Channel	TRP(dBm)	TIS(dBm)
BT	0	4.90	-91.19
	39	5.33	-91.55
	78	5.03	-91.95

4.2 Test Result

1 2D Pattern——**BTANT**

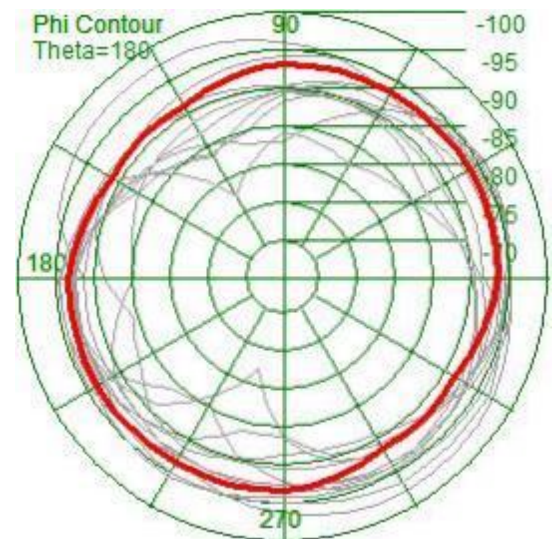
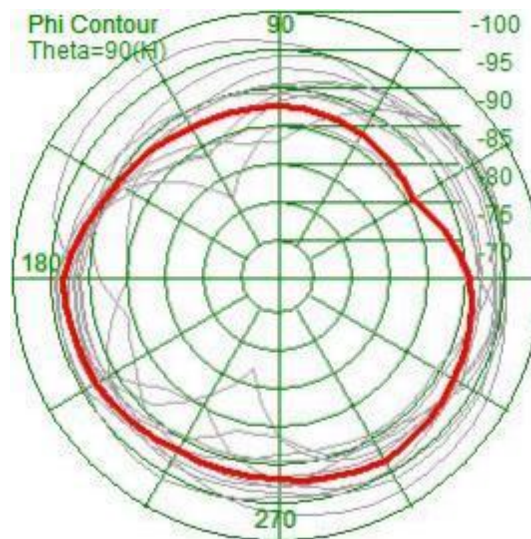
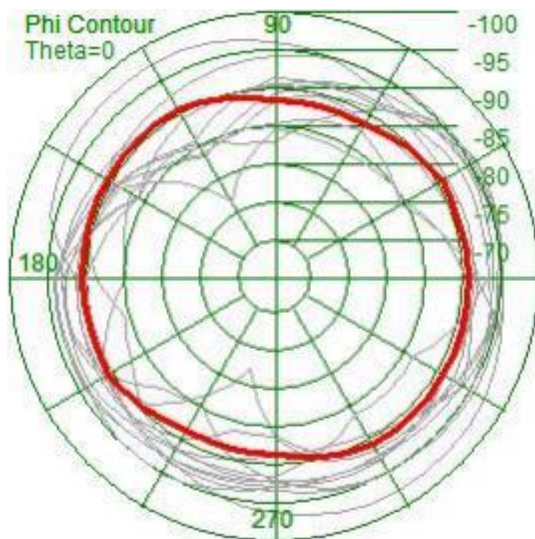
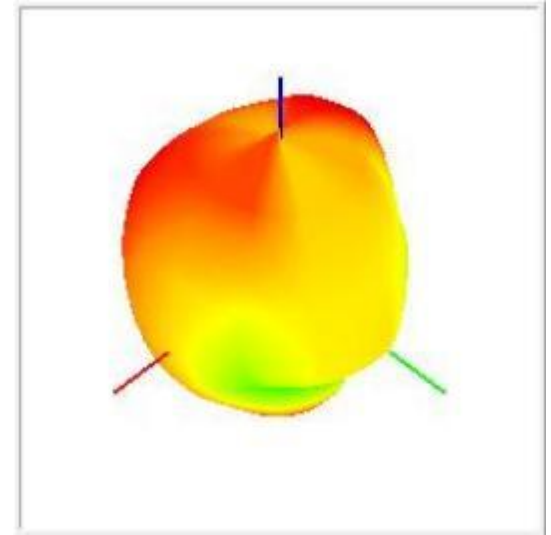
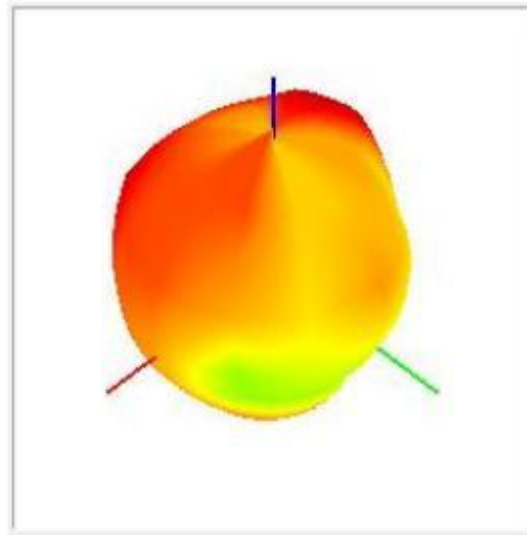
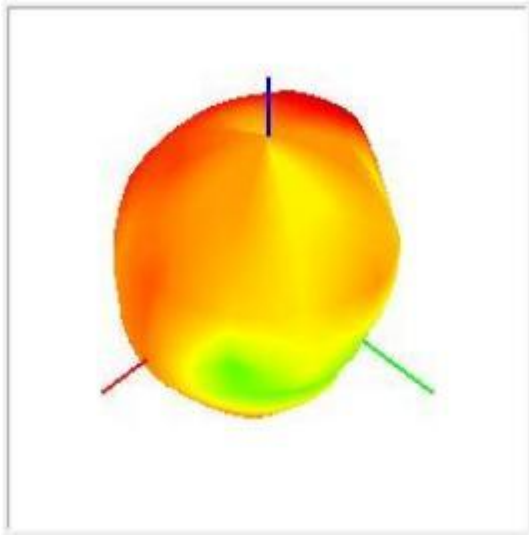
TRP



4.2 Test Result

2 2D Pattern——**BTANT**

TIS



Thank you!