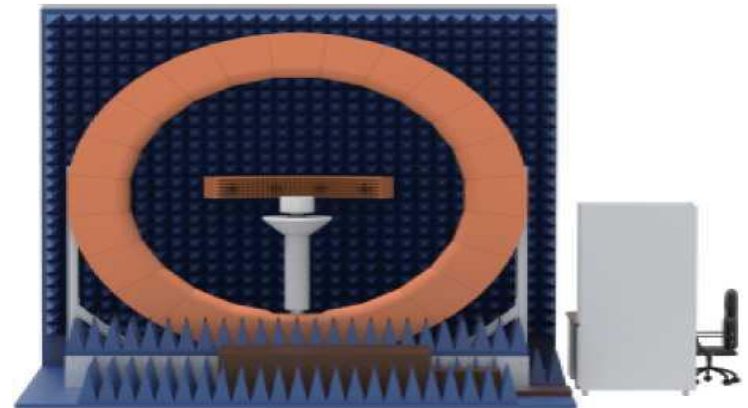
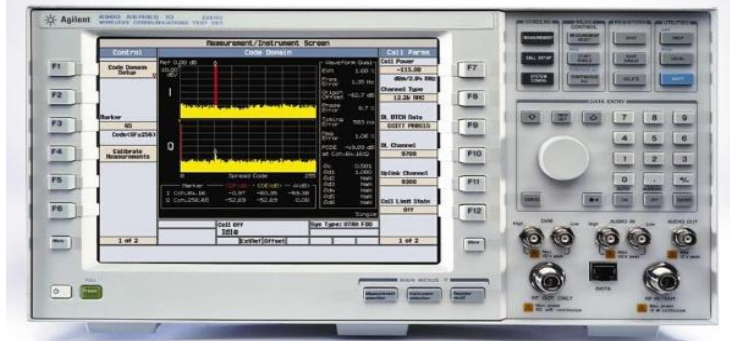




Customer	新联芯
Project	R1175
Antenna Revision	A0
Prepared by	18814303605
Checked by	
Date :	2025. 10. 24

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 **R1175** 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

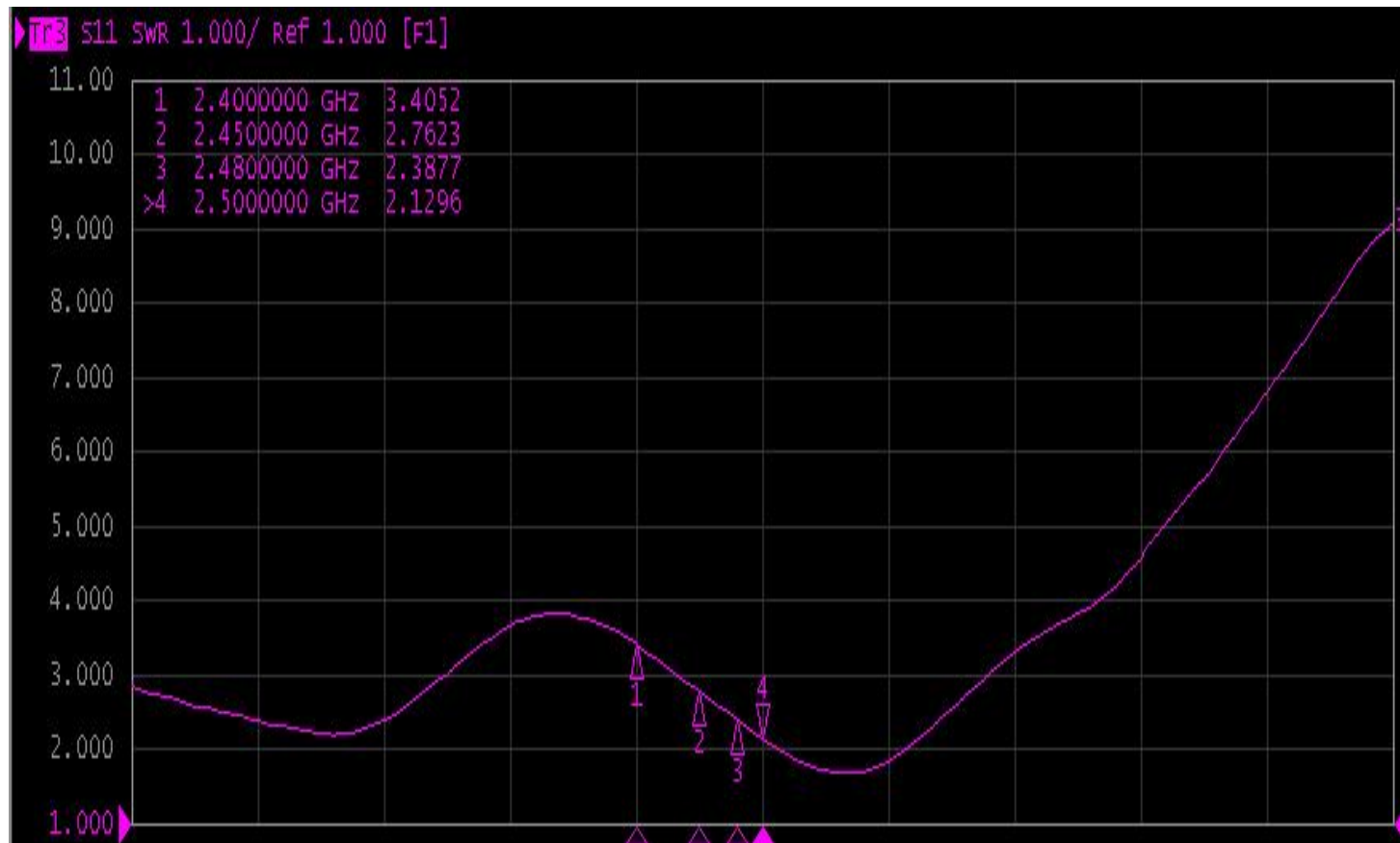
4.1 Test Result

4.2 2D Pattern



3.1 Test Result

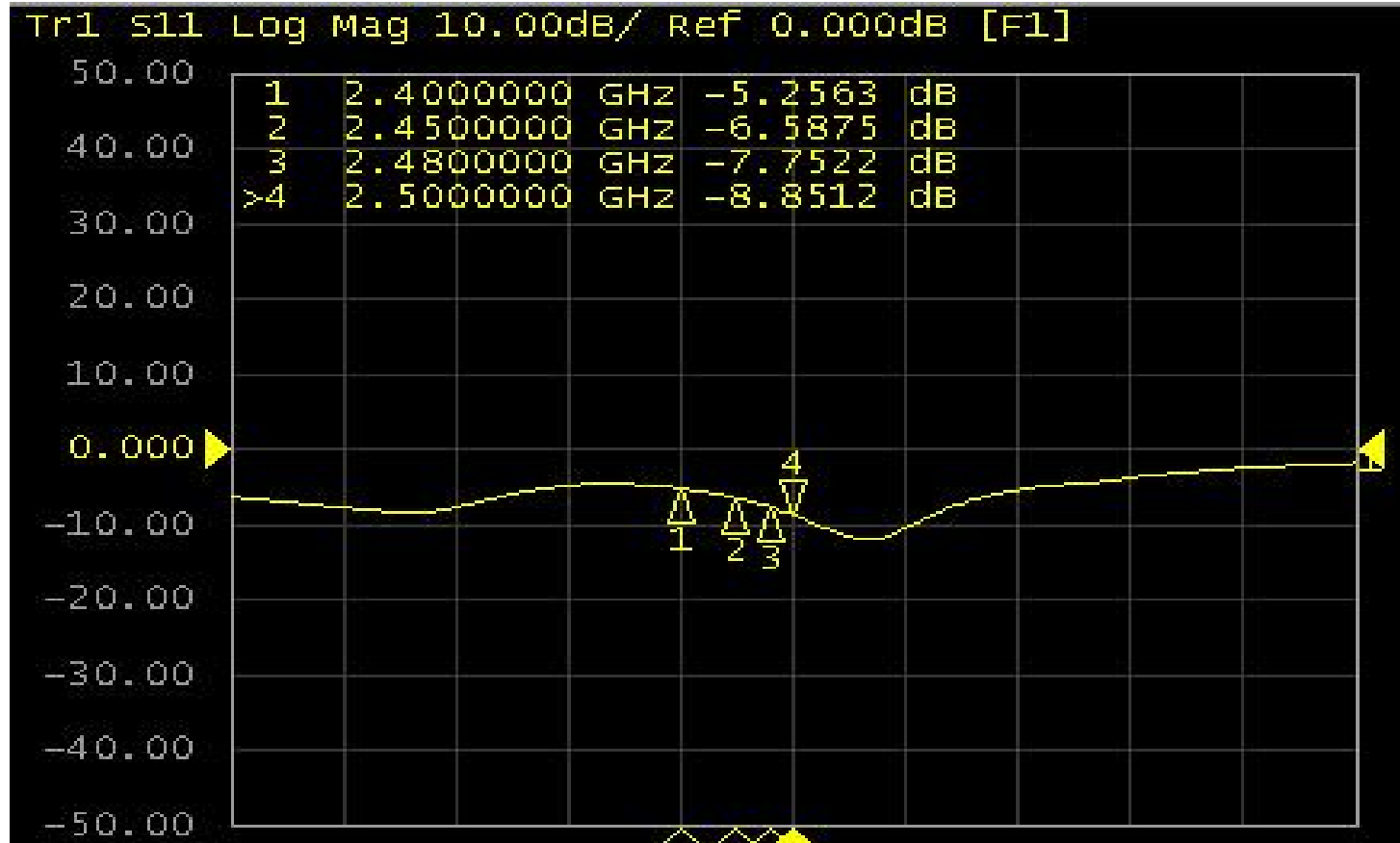
1 .S11 Parameter-VSWR



Frequency (MHz)	2400	2450	2480	2500
VSWR	3.40	2.76	2.38	2.12

3.1 Test Result

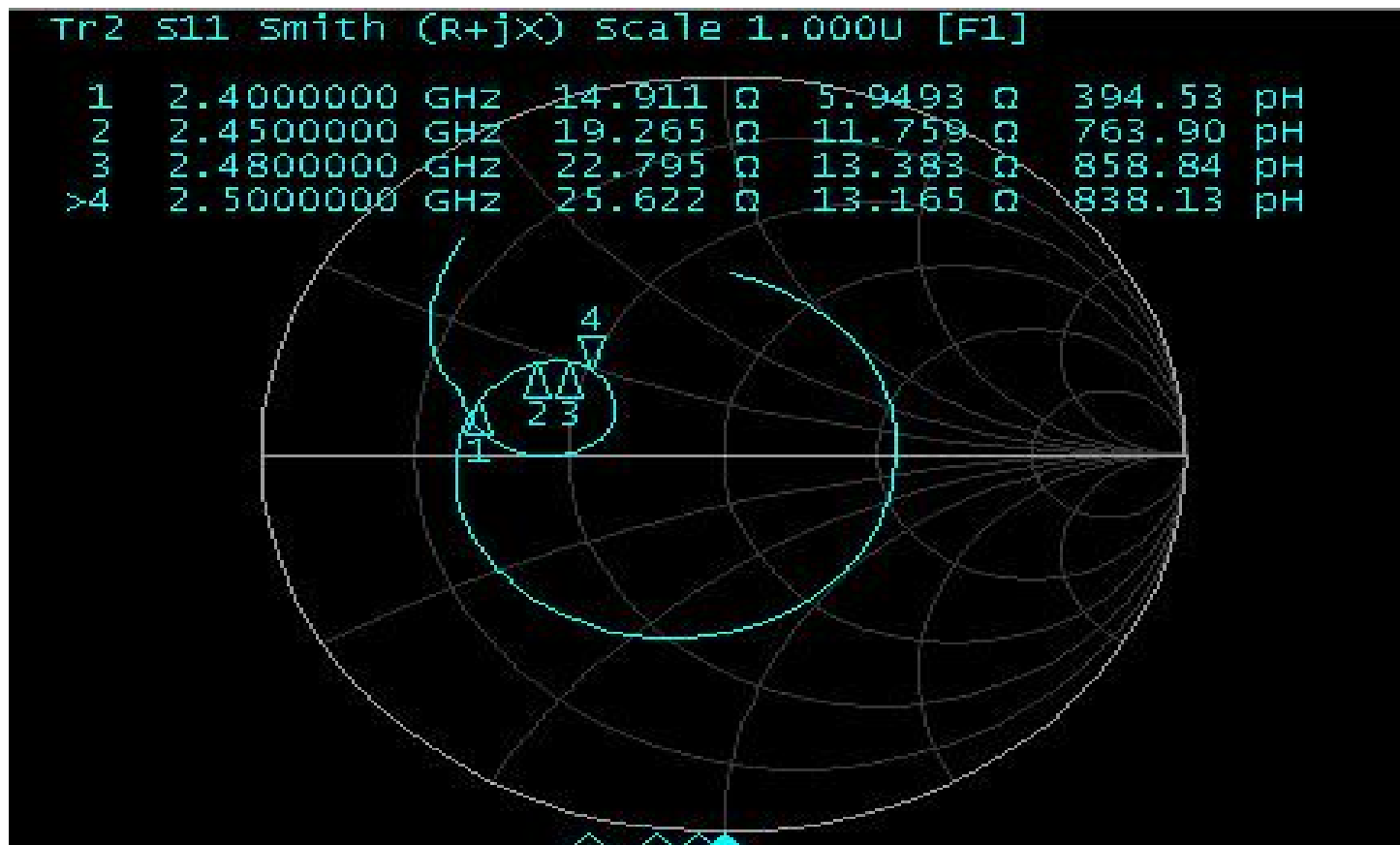
2. S11 Parameter-Log Mag



Frequency (MHz)	2400	2450	2480	2500
Log Mag	-5.25	-6.58	-7.75	-8.85

3.1 Test Result

3.S11 Parameter-Smith



Frequency (MHz)	2400	2450	2480	2500
Smith(Ω)	14.91	19.26	22.79	25.62

3.2 Test Result

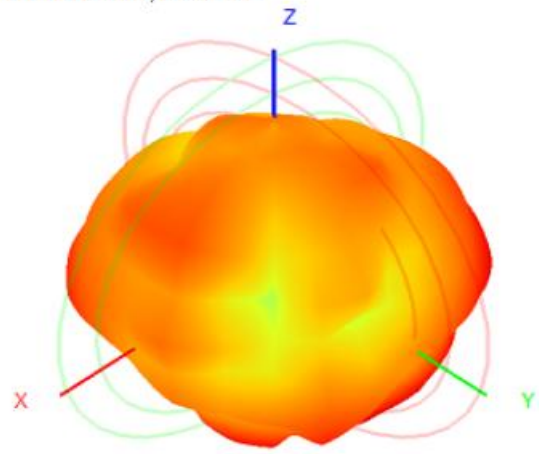
1 Gain & Efficiency—**ANT**

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	32.13%	2.45
2410	33.87%	3.13
2420	36.09%	3.73
2430	37.46%	3.93
2440	38.36%	3.93
2450	40.46%	4.24
2460	41.72%	4.50
2470	43.44%	4.77
2480	44.13%	4.97

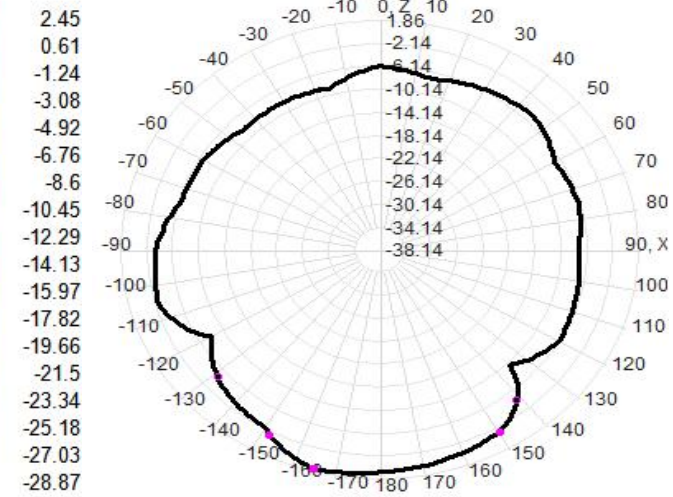
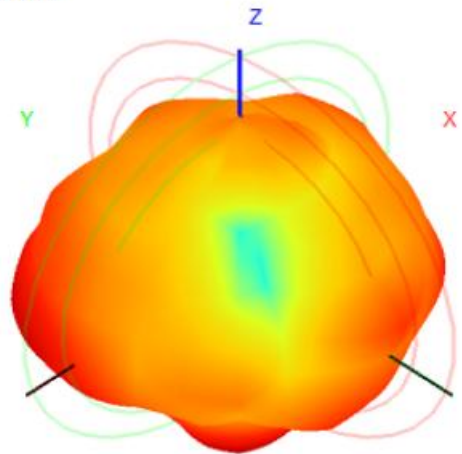
3.3 Test Result

1 2D Pattern——BTANT

2400.0MHz Total, Eff. 32.1%



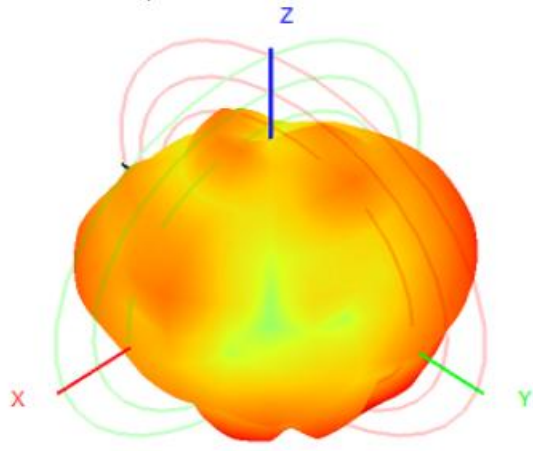
Back View



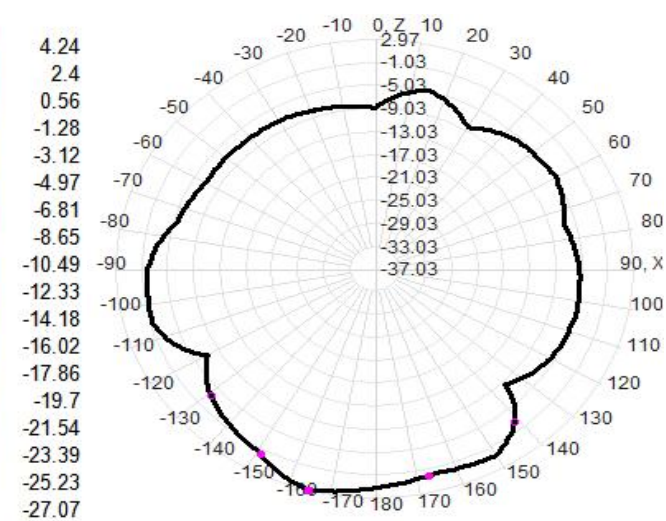
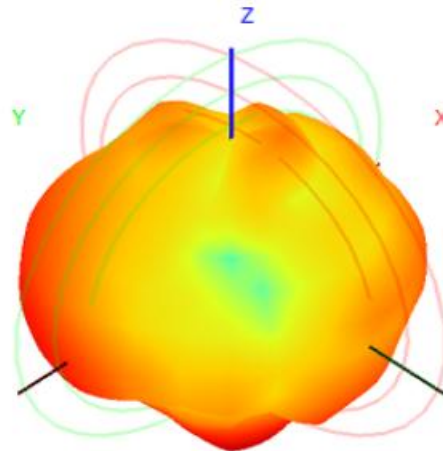
3.3 Test Result

2 2D Pattern—BTANT

2450.0MHz Total, Eff. 40.5%



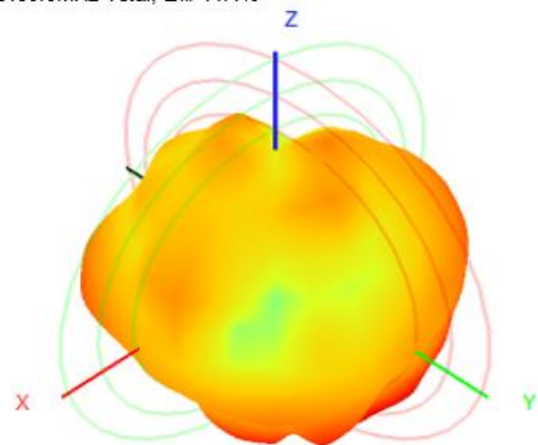
Back View



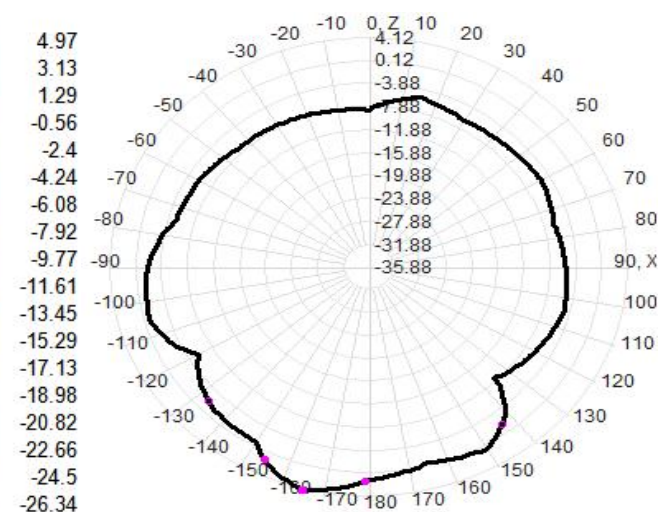
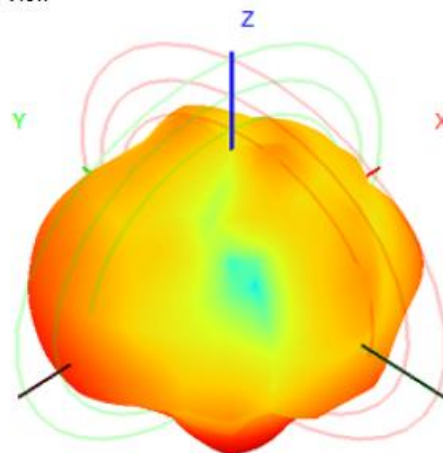
3.3 Test Result

3 2D Pattern—BTANT

2480.0MHz Total, Eff. 44.1%



Back View



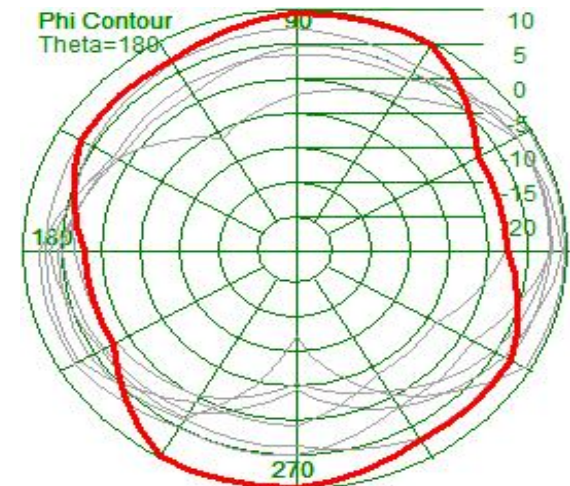
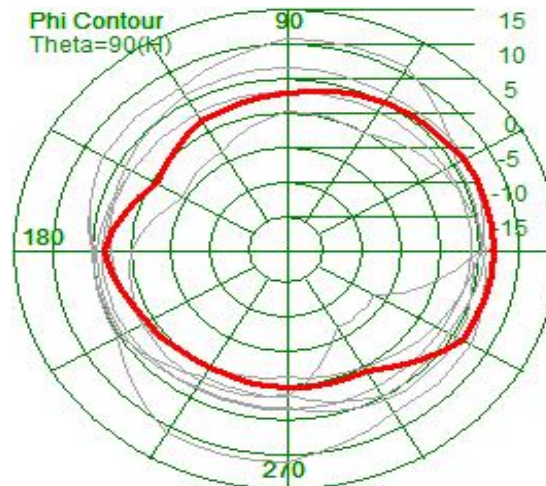
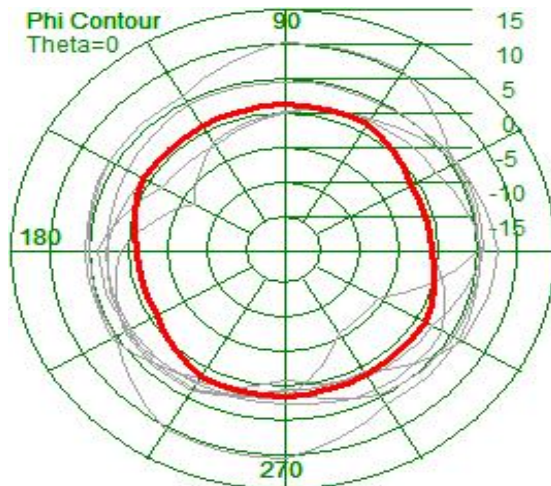
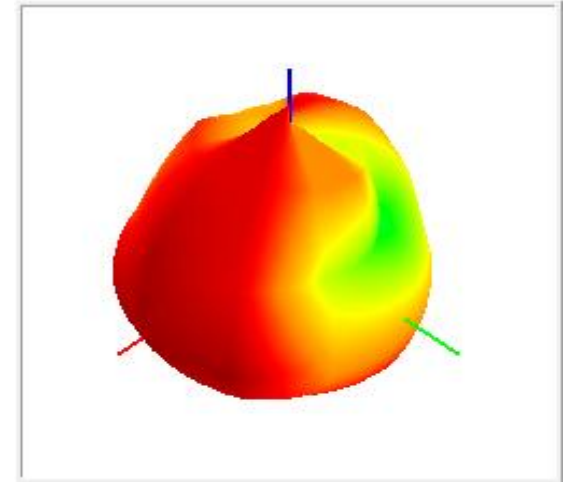
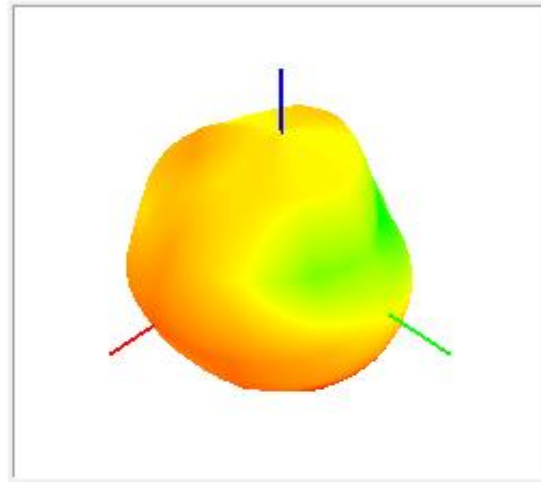
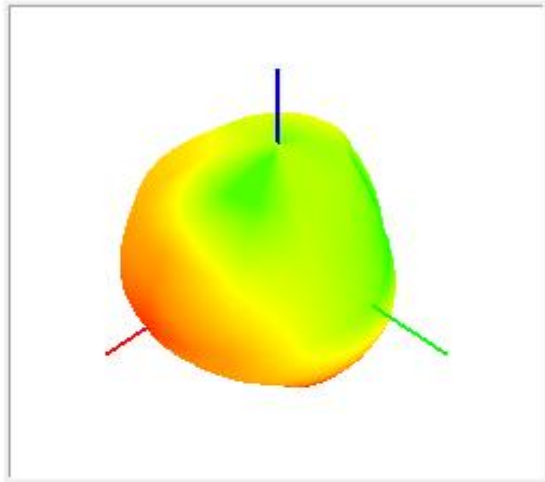
4.1 OTA Data

Test Equipment:	R&S CMW500		
Test Condition:	2 D chamber		
Band	Channel	TRP(dBm)	TIS(dBm)
BT	0	3.35	-89.06
	39	3.72	-87.24
	78	5.01	-88.32

4.2 Test Result

1 2D Pattern——**BTANT**

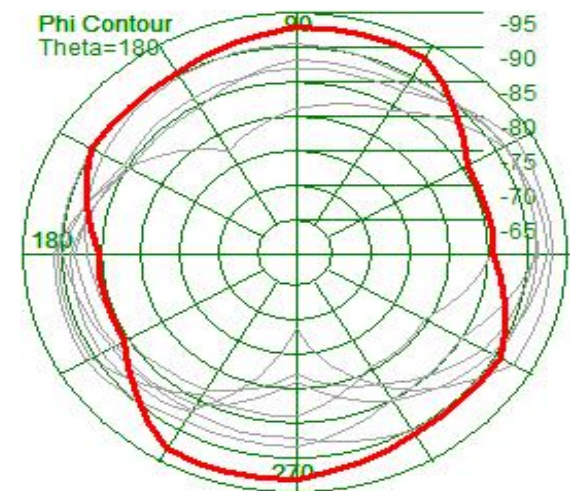
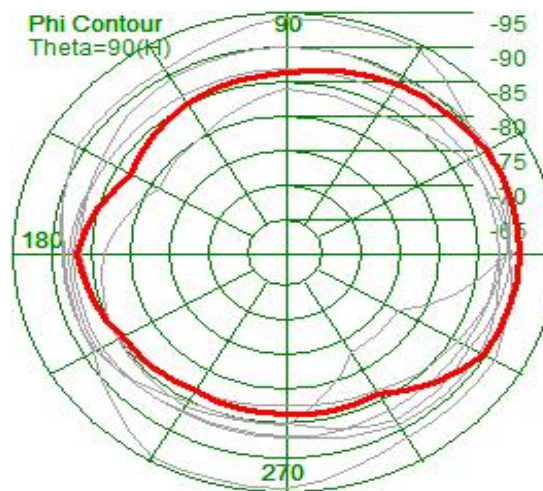
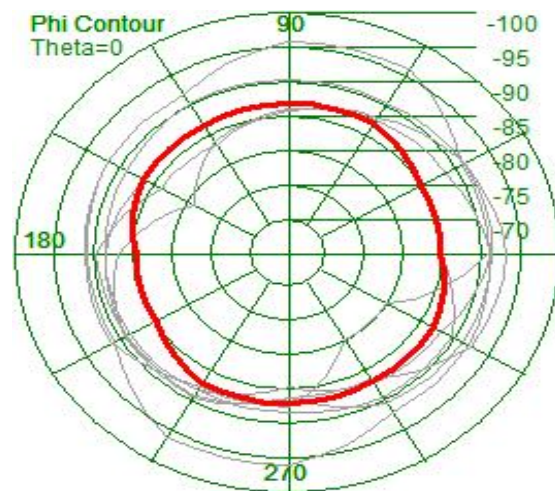
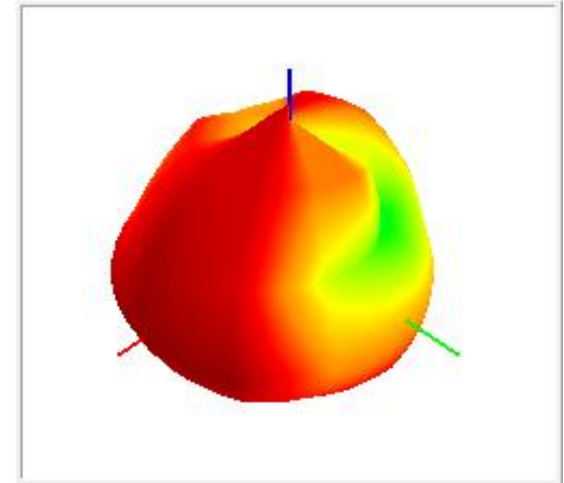
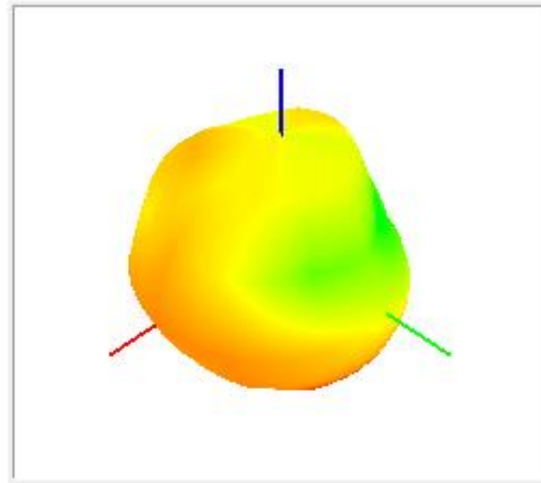
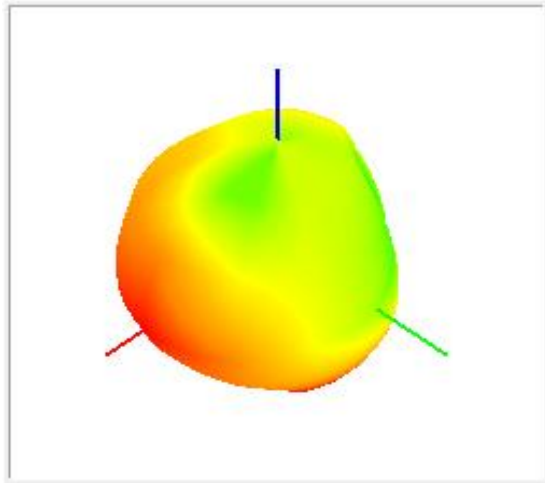
TRP



4.2 Test Result

2 2D Pattern——**BTANT**

TIS



Thank you!