



Customer	巨京科技
Project	Y01
Antenna Revision	A0
Prepared by	18814303605
Checked by	
Date :	2025. 01. 09

2.TestSystem

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



Purpose

This report is to measure the performance of antenna for Y01. 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
4. Test Result

4.1 S11 Parameter-VSWR

4.2 Gain & Efficiency

4.3 Test coordinate

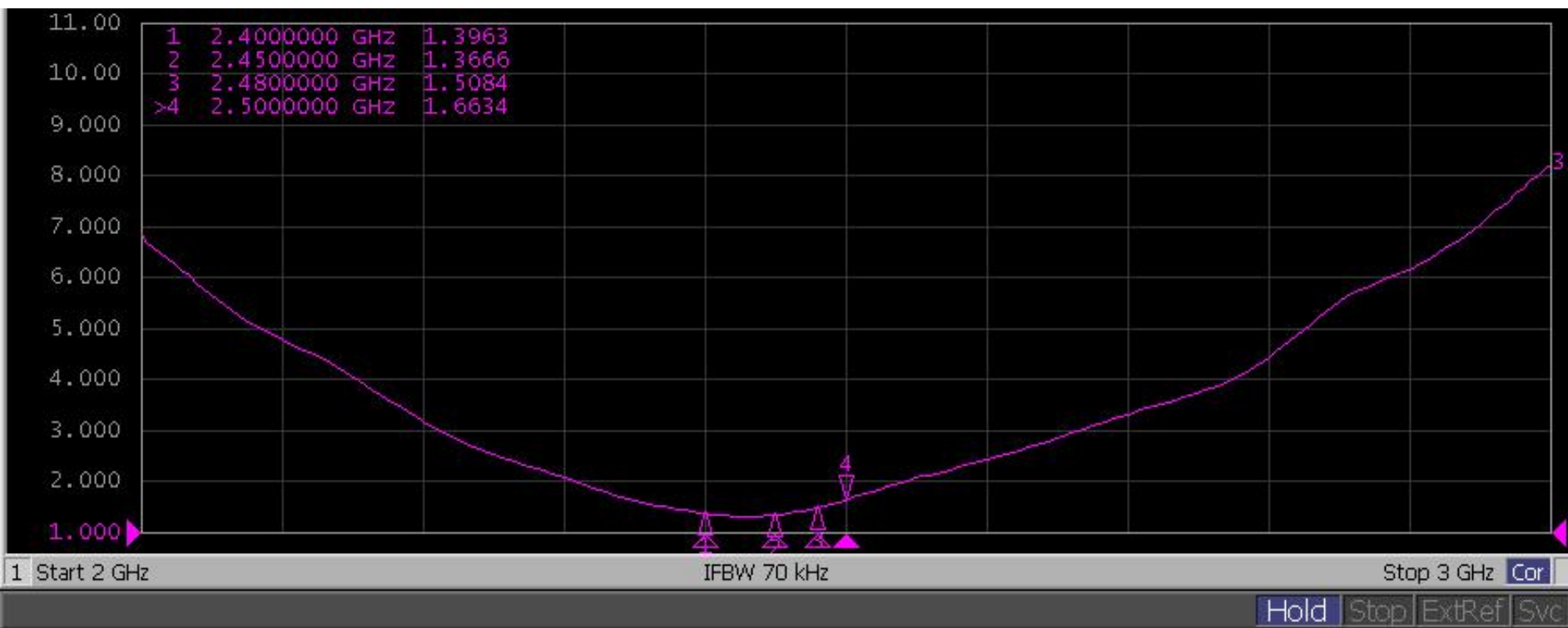
4.4 2D Pattern



品名	
规格/size	
材质/material	
重量/weight	
日期/Date of shipm	
备注/remarks	

4. Test Result

4.1 S11 Parameter-VSWR



Frequency (MHz)	2400	2450	2480	2500
VSWR	1.39	1.36	1.50	1.66

4. Test Result

4.1 S11 Parameter-Log Mag

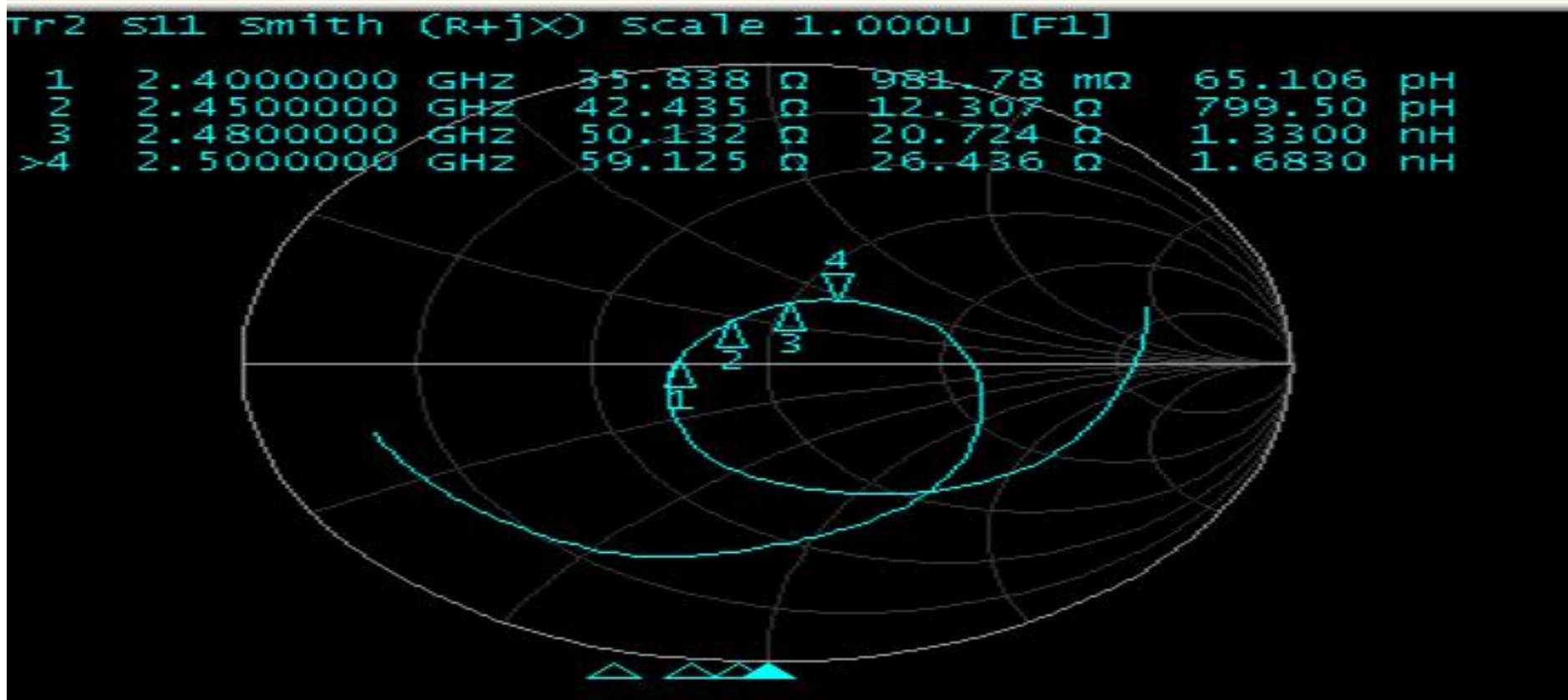
Tr1 S11 Log Mag 10.00dB/ Ref 0.000dB [F1]



Frequency (MHz)	2400	2450	2480	2500
Log Mag	-15.63	-16.19	-13.86	-12.07

4.Test Result

4.1 S11 Parameter-Smith



Frequency (MHz)	2400	2450	2480	2500
Smi th(Ω)	35.83	42.43	50.13	59.12

4. Test Result

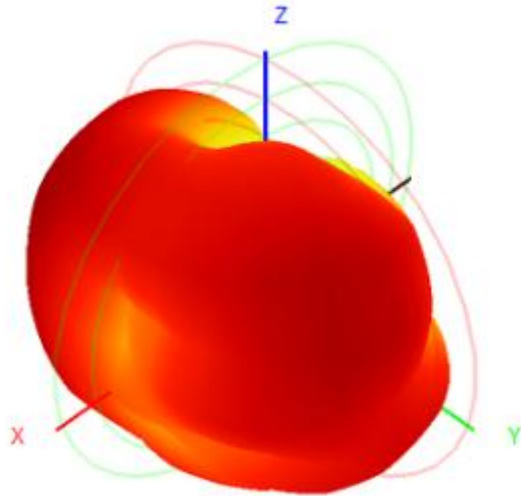
4.2 Gain & Efficiency—**ANT**

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	53.17	3.05
2410	51.98	2.91
2420	51.29	2.92
2430	51.31	2.99
2440	52.13	3.10
2450	51.51	3.10
2460	50.83	3.09
2470	49.66	2.98
2480	48.73	2.94

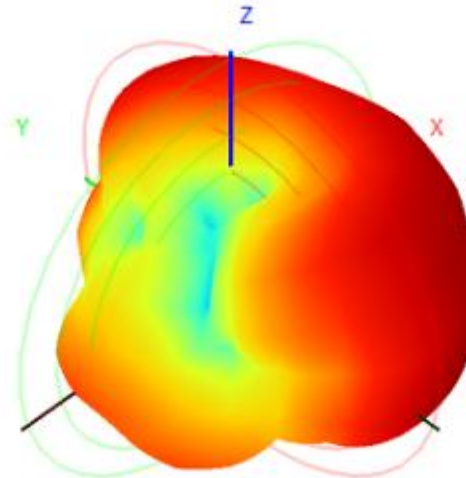
4. Test Result

4.3 2D Pattern——BTANT

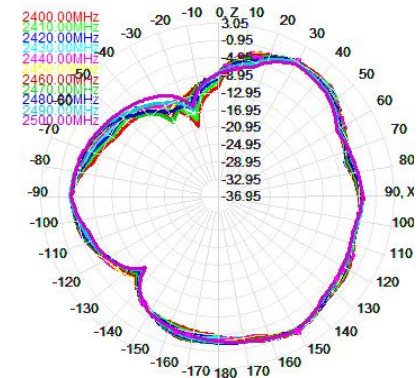
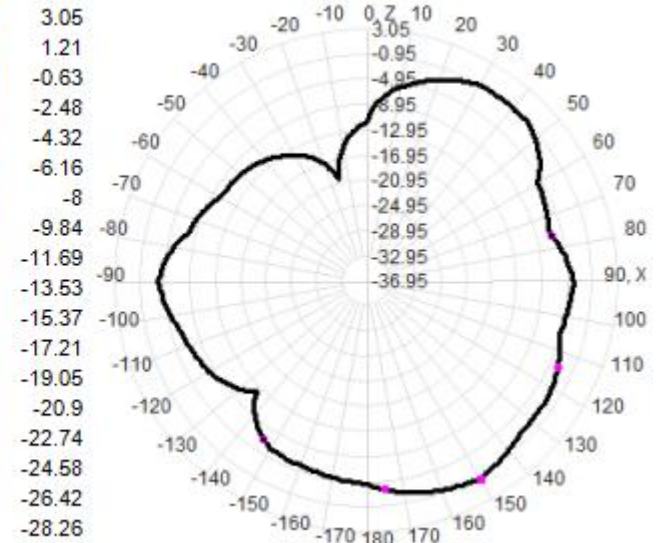
2400.0MHz Total, Eff: 53.2%



Back View



2400.0MHz Total(E1-XZ), Max=-0.88dBi



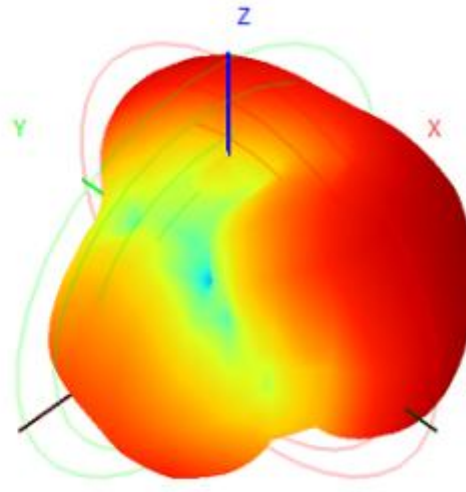
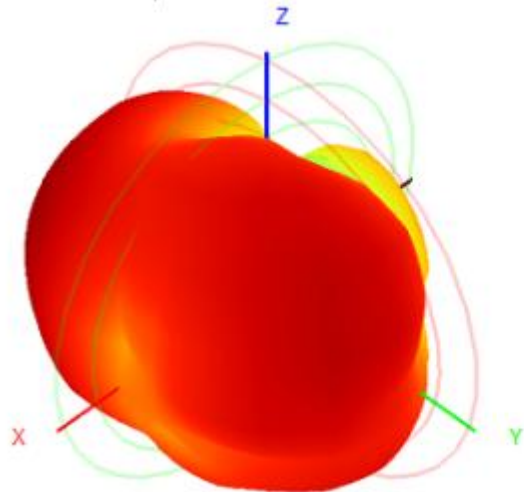
4. Test Result

TRP

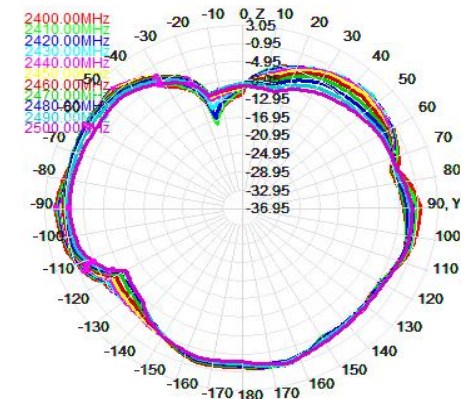
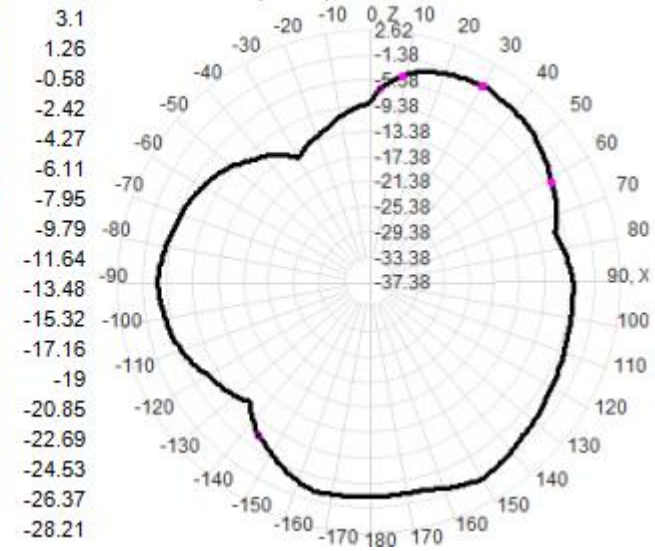
4.3 2D Pattern——BT ANT

2450.0MHz Total, Eff: 51.5%

Back View



2450.0MHz Total(E1-XZ), Max=-1.39dBi



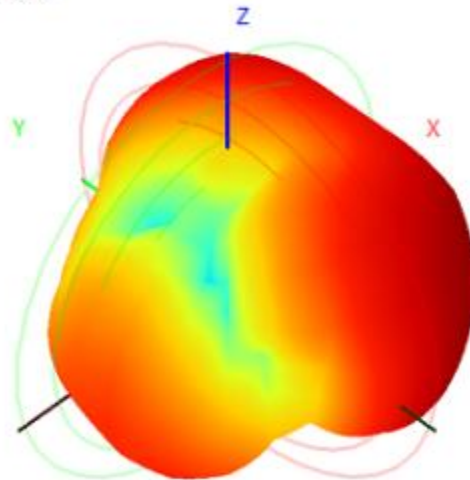
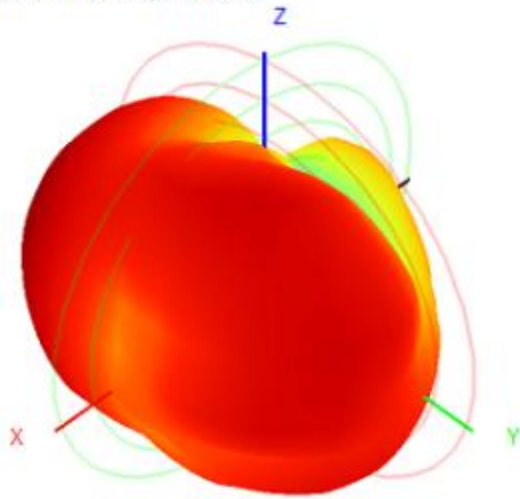
4. Test Result

4.3 2D Pattern——BT ANT

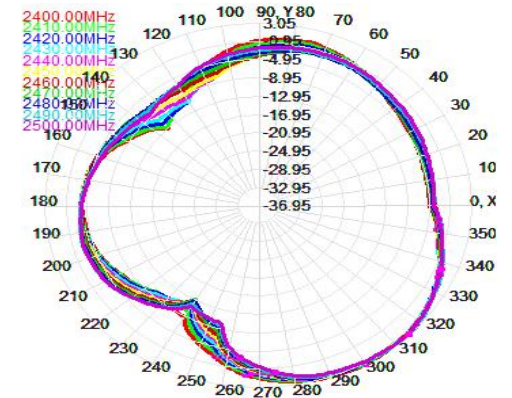
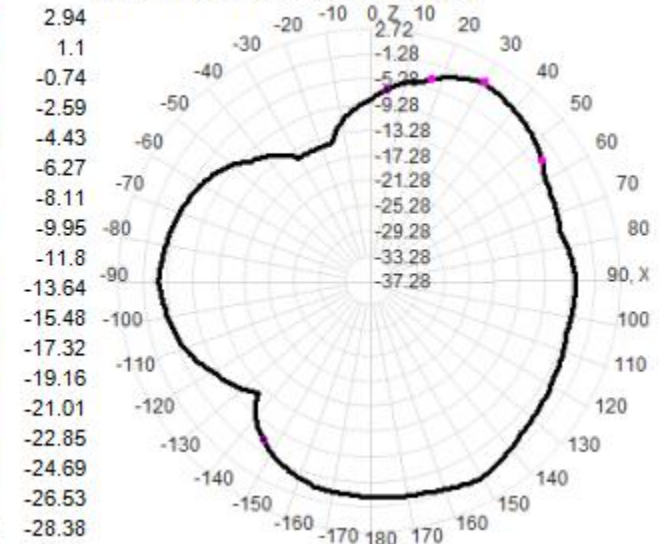
TRP

2480.0MHz Total, Eff: 48.7%

Back View



2480.0MHz Total(E1-XZ), Max= -0.96dBi



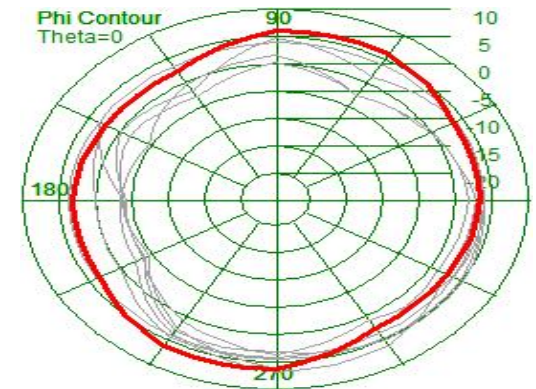
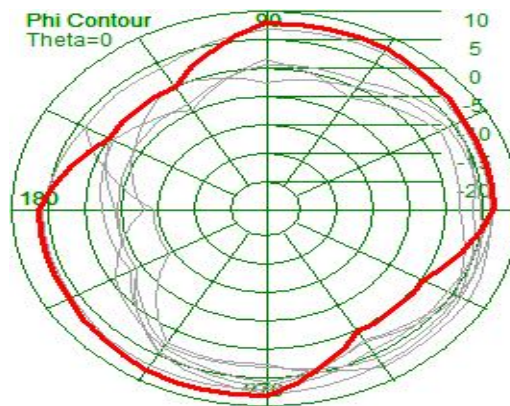
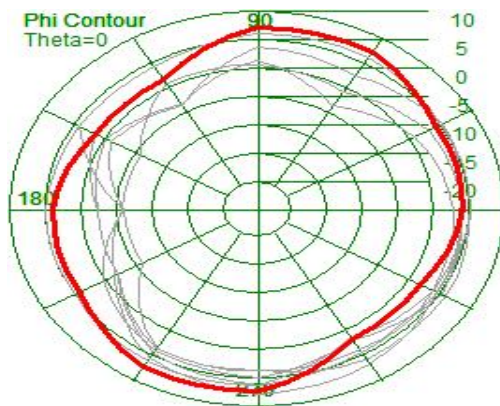
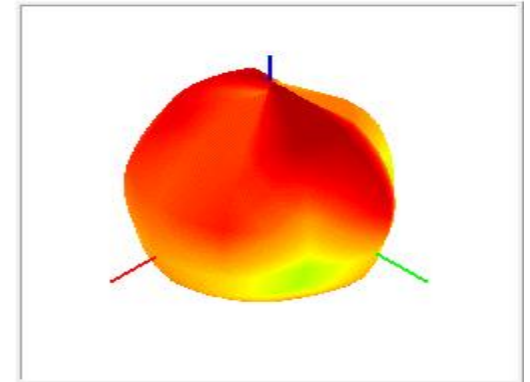
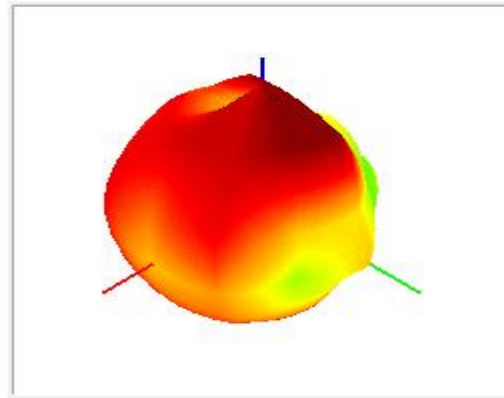
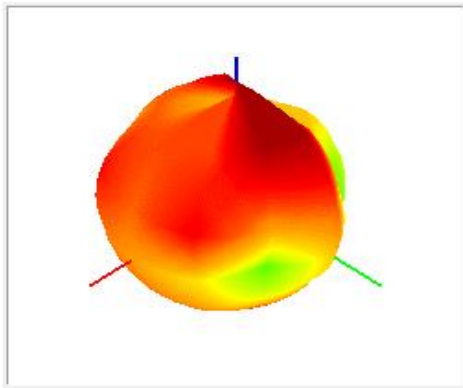
4.5 OTA Data

Test Equipment:	R&S CMW500		
Test Condition:	3D chamber		
Band	Channel	TRP(dBm)	TIS(dBm)
BT	0	1.98	-88.42
	39	2.84	-89.85
	78	3.16	-89.14

4. Test Result

4.4 2D Pattern——**BTANT**

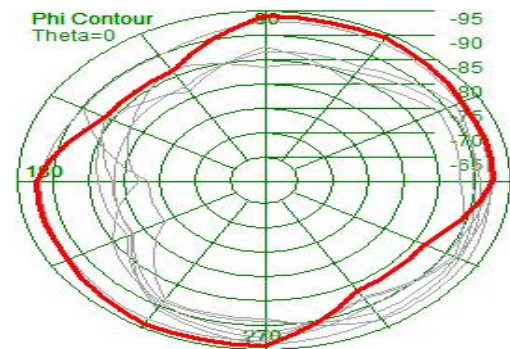
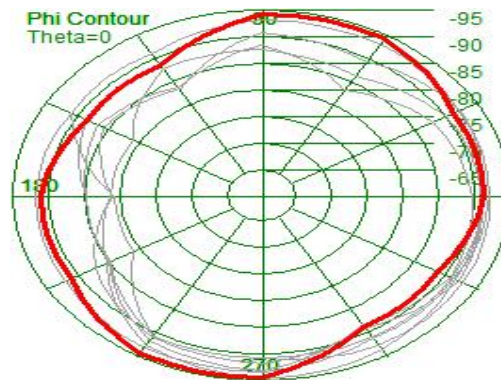
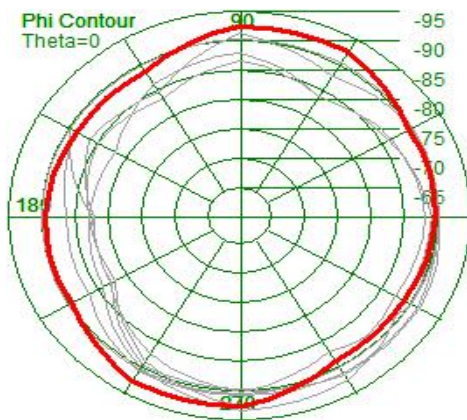
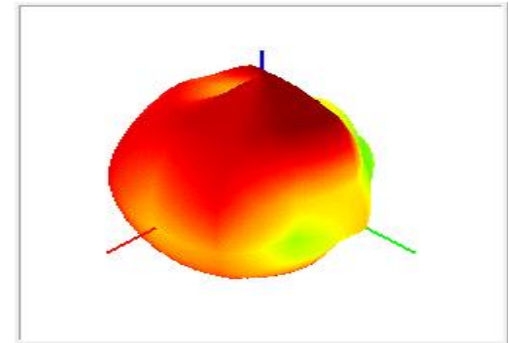
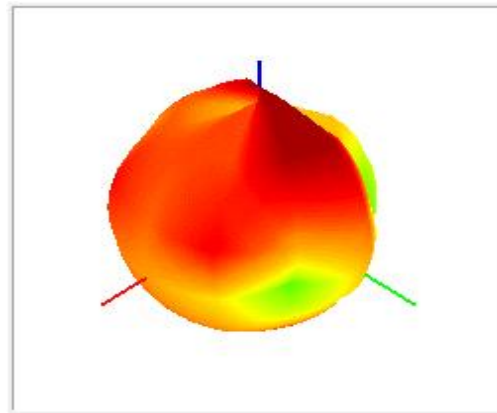
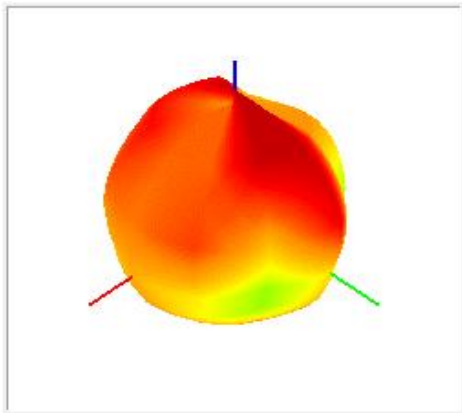
TRP



4. Test Result

4.4 2D Pattern——**BTANT**

TIS



Thank you!