



Customer	时光舟
Project	V8
Antenna Revision	A0
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Checked by	
Date :	2025. 01. 02

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 **V8** 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 2D Pattern

4.4 OTA



V8

4.1 Test Result

1 S11 Parameter-VSWR



Frequency (MHz)	2400	2450	2480	2500
VSWR	2.48	1.72	1.34	1.46

4.1 Test Result

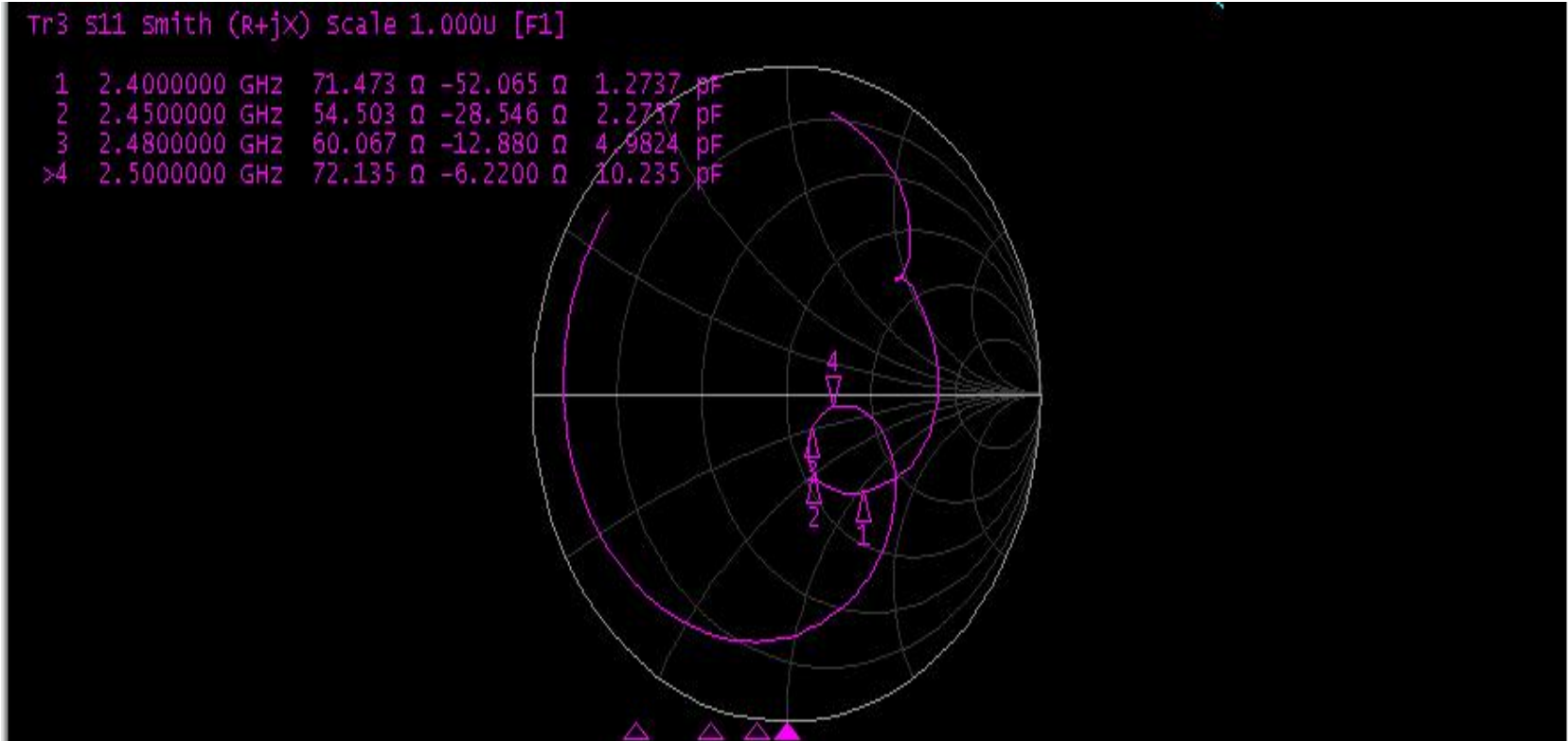
2 S11 Parameter-Log Mag



Frequency (MHz)	2400	2450	2480	2500
Log Mag	-7.40	-11.47	-16.62	-14.51

4.1 Test Result

3 S11 Parameter-VSWR



Frequency (MHz)	2400	2450	2480	2500
Smi th(Ω)	71.47	54.50	60.06	72.13

4.2 Test Result

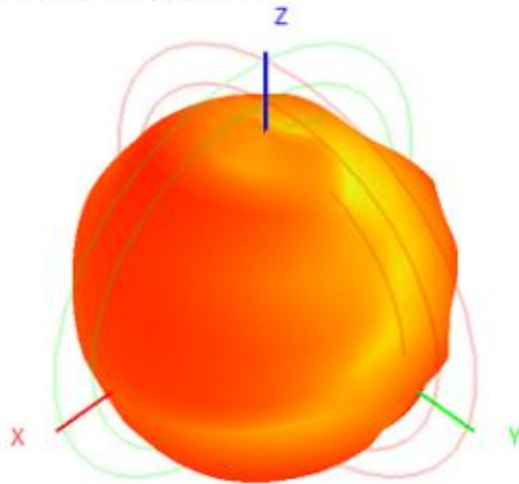
1 Gain & Efficiency——**ANT**

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	30.28	2.56
2410	31.05	2.83
2420	31.66	3.03
2430	32.71	3.27
2440	33.56	3.48
2450	34.58	3.68
2460	35.20	3.74
2470	35.18	3.61
2480	34.45	3.29

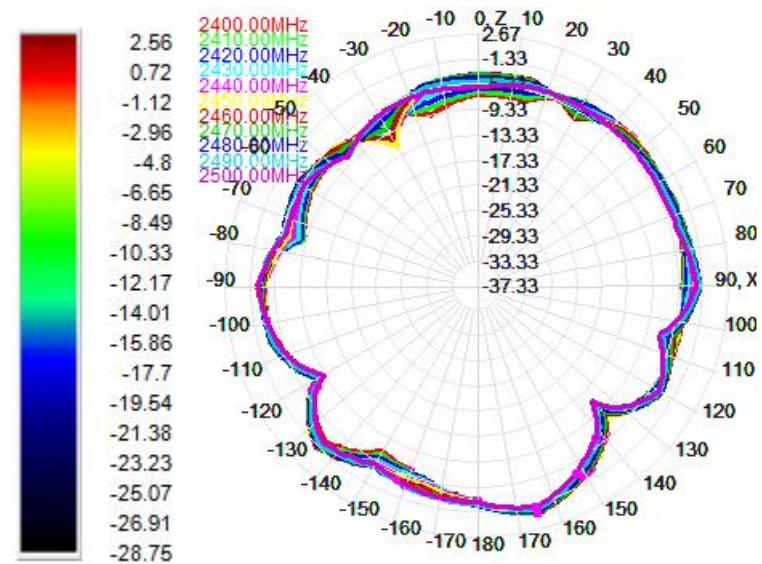
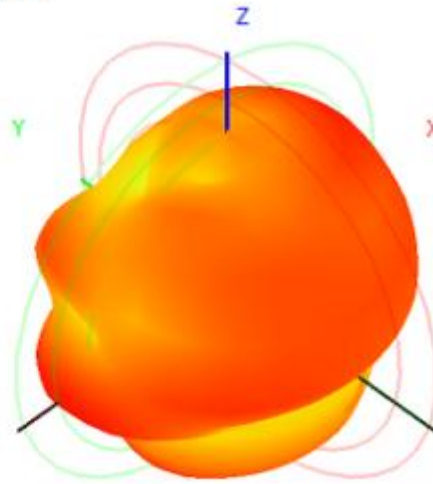
4.3 Test Result

1 2D Pattern—**BTANT**

2400.0MHz Total, Eff: 30.3%



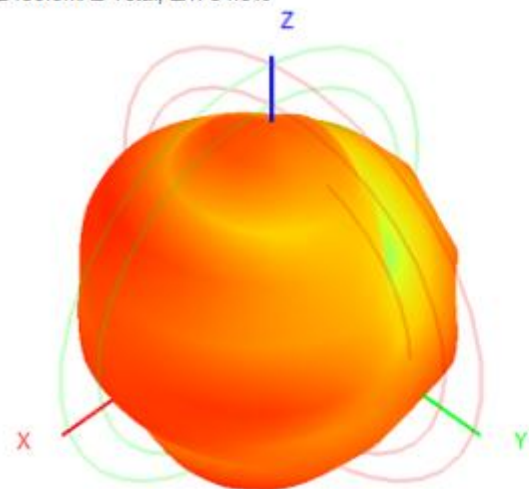
Back View



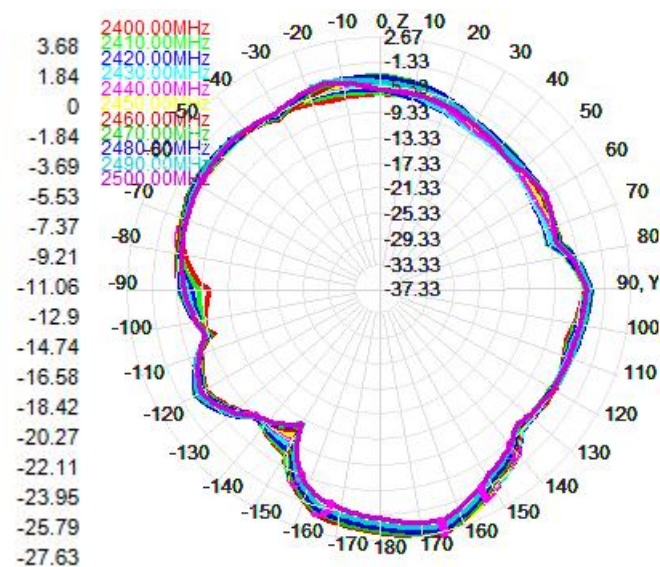
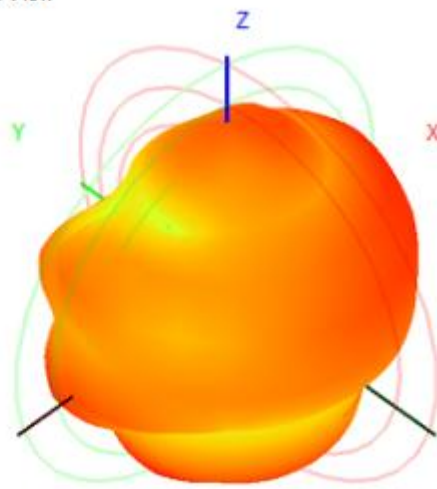
4.3 Test Result

2 2D Pattern—BTANT

2450.0MHz Total, Eff: 34.6%



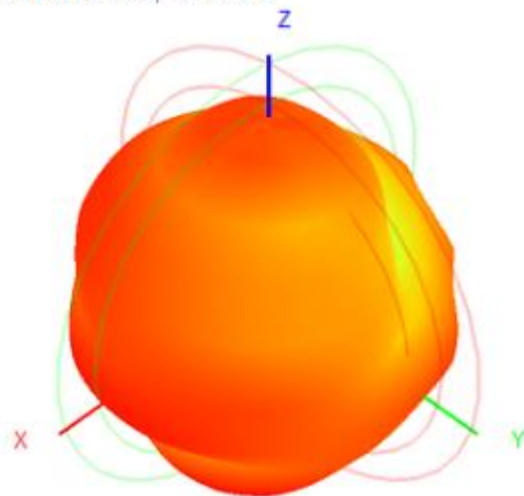
Back View



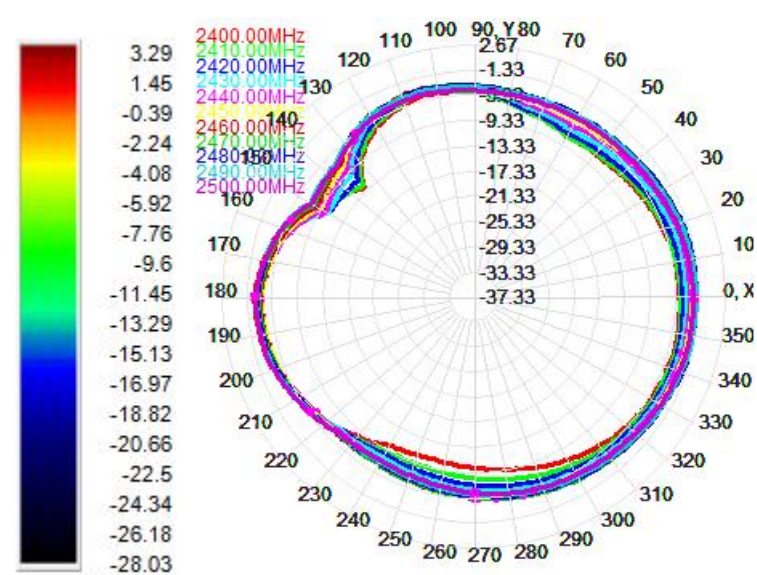
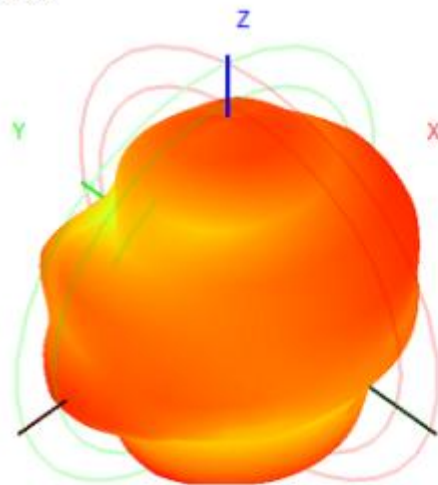
4.3 Test Result

3 2D Pattern—BTANT

2480.0MHz Total, Eff: 34.4%



Back View



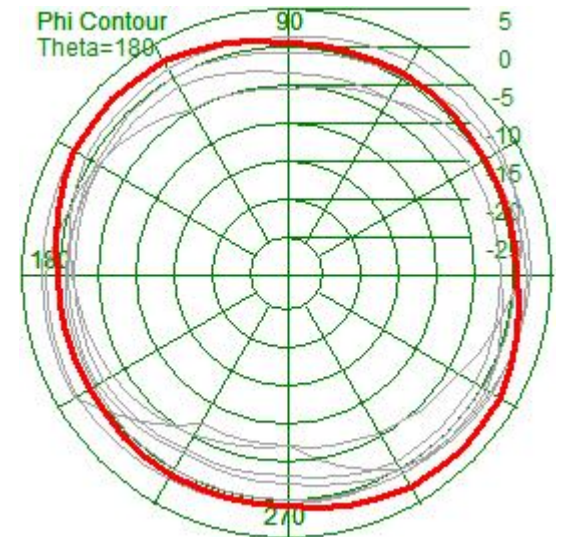
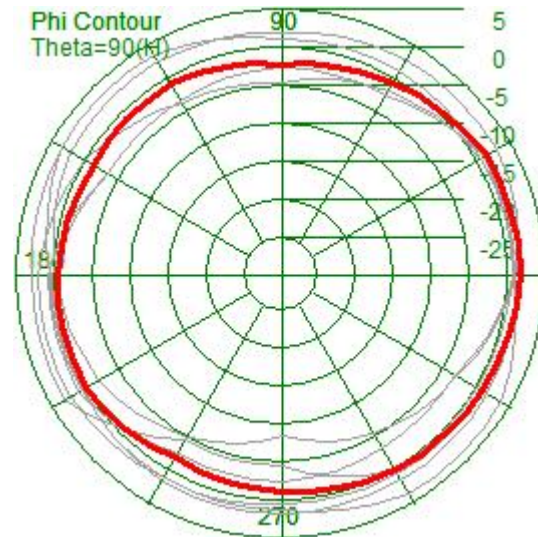
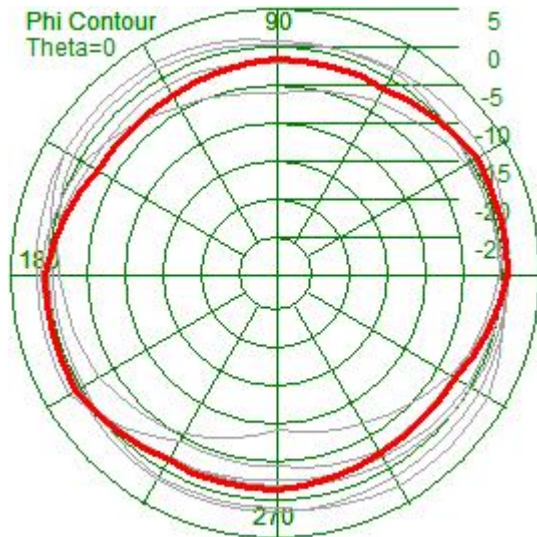
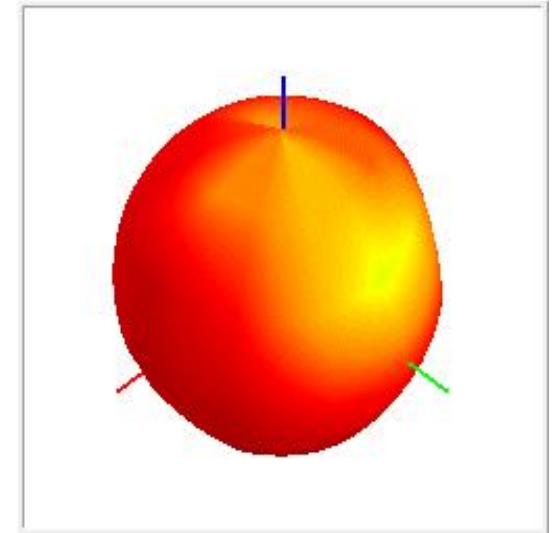
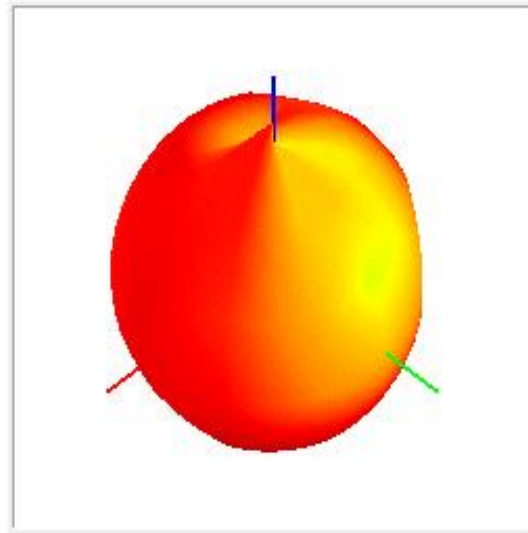
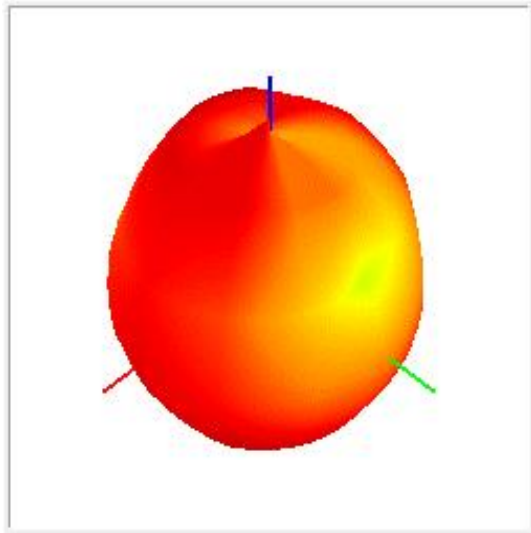
4.4 OTA Data

Test Equipment:	R&S CMW500		
Test Condition:	2 D chamber		
Band	Channel	TRP(dBm)	TIS(dBm)
BT-L	0	-0.82	-85.48
	39	0.11	-87.56
	78	-0.26	-87.03

4.4 Test Result

1 2D Pattern——**BTANT**

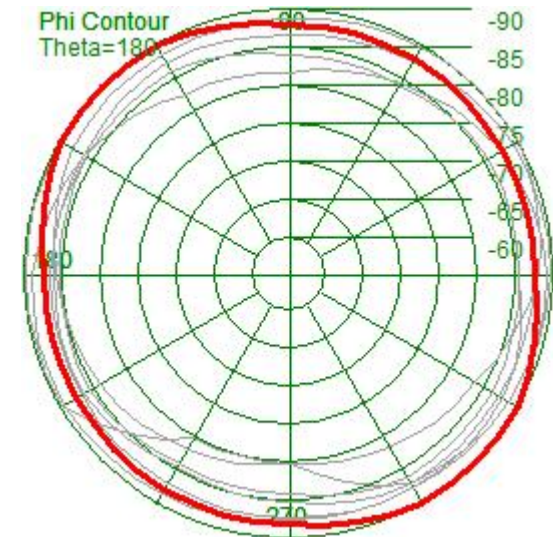
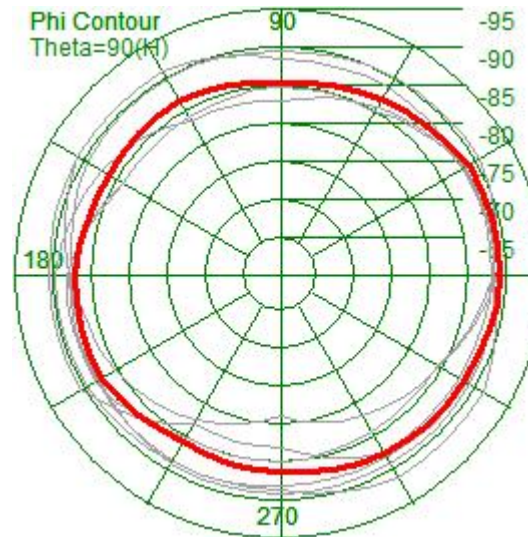
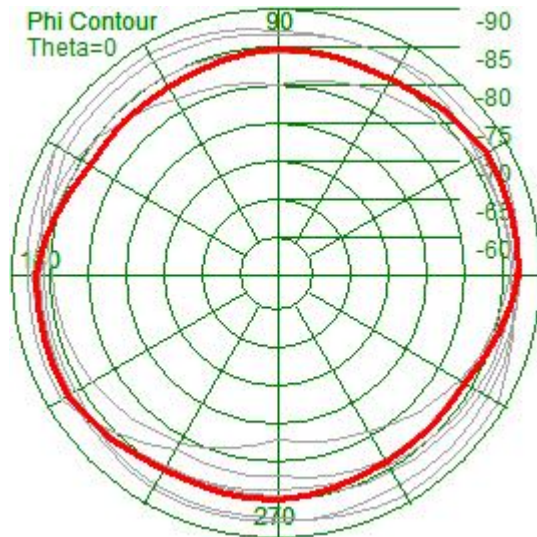
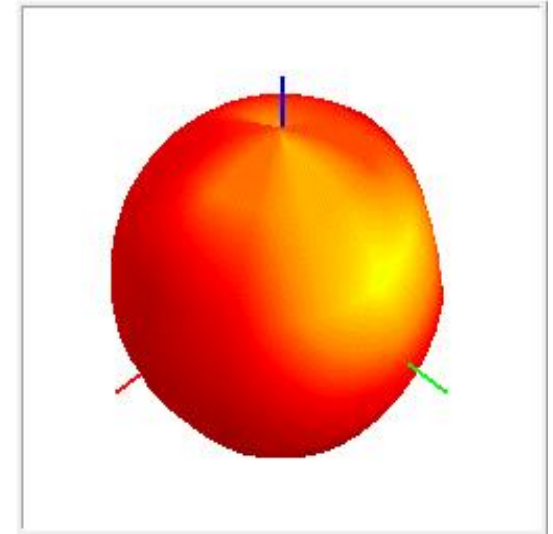
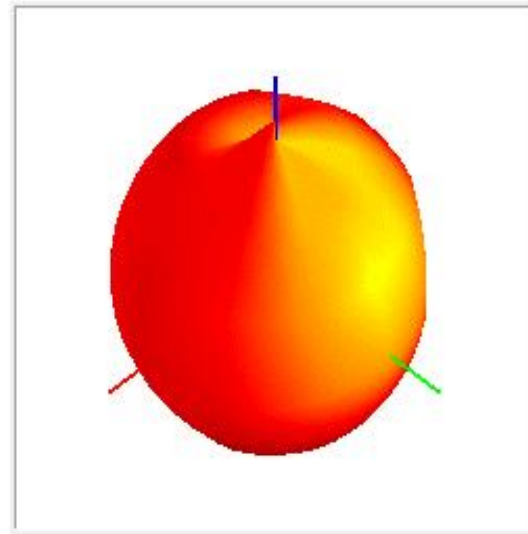
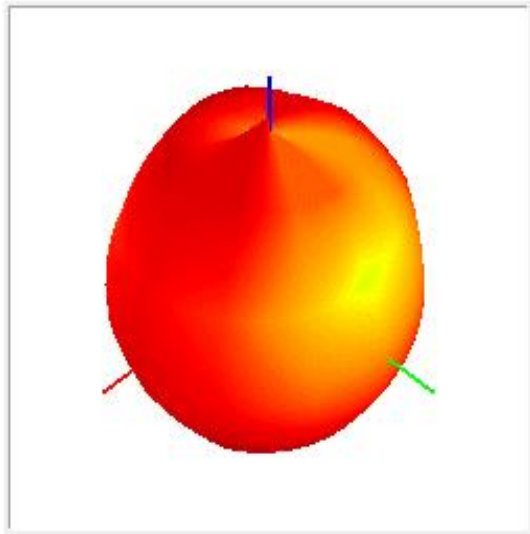
TRP



4.4 Test Result

2 2D Pattern——**BTANT**

TIS



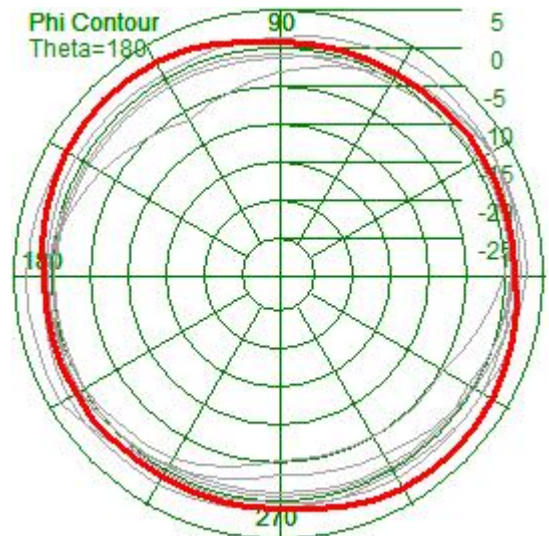
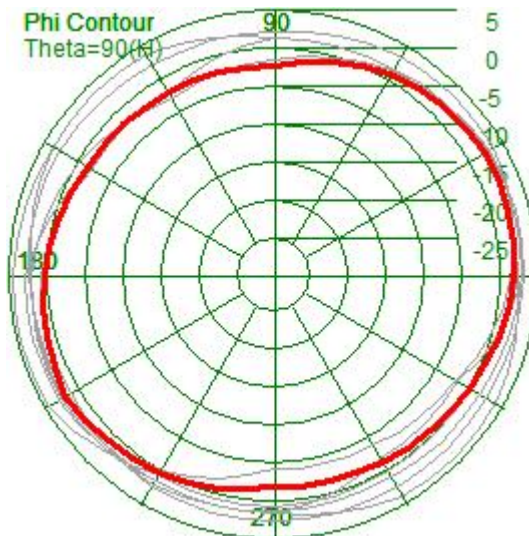
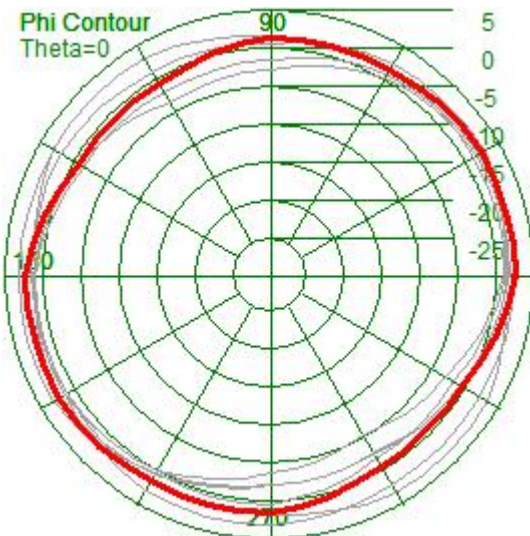
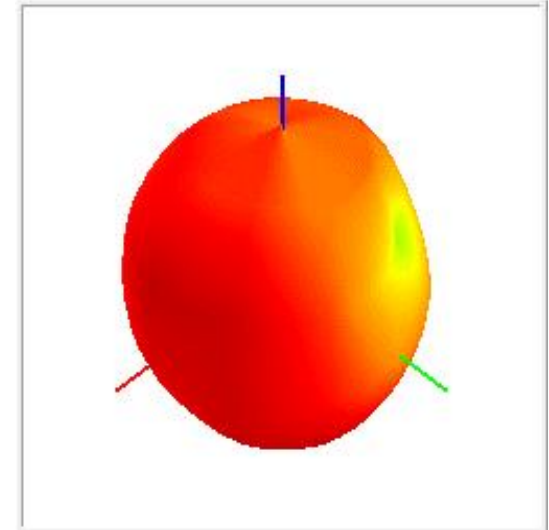
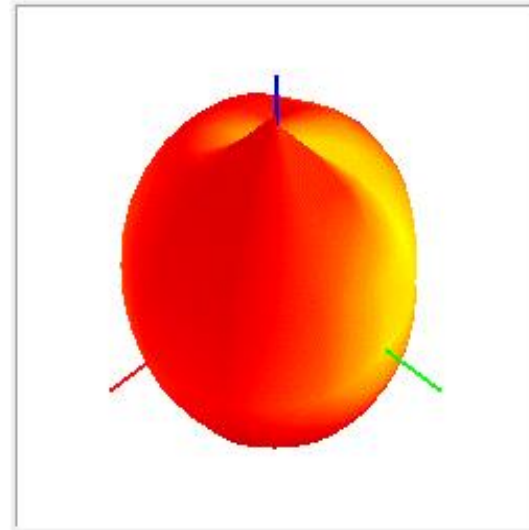
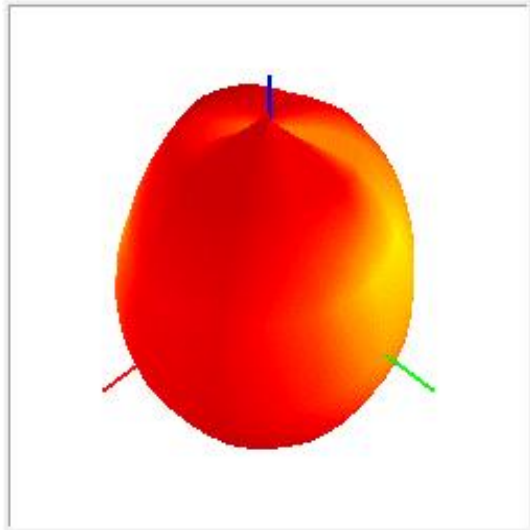
4.4 OTA Data

Test Equipment:	R&S CMW500		
Test Condition:	2 D chamber		
Band	Channel	TRP(dBm)	TIS(dBm)
BT-R	0	0.41	-86.64
	39	1.06	-87.49
	78	0.17	-86.63

4.4 Test Result

1 2D Pattern——**BTANT**

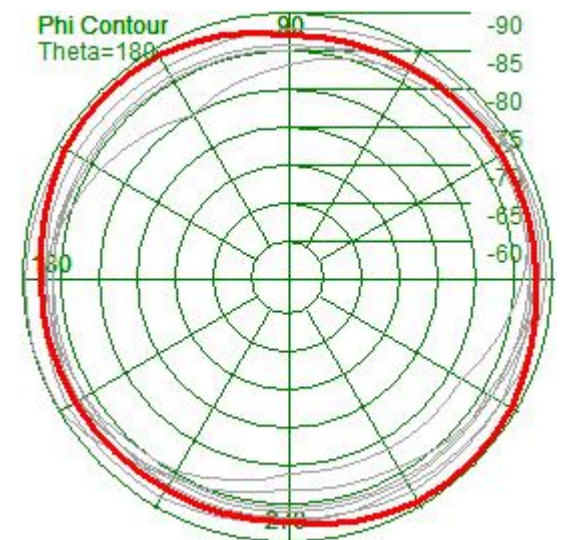
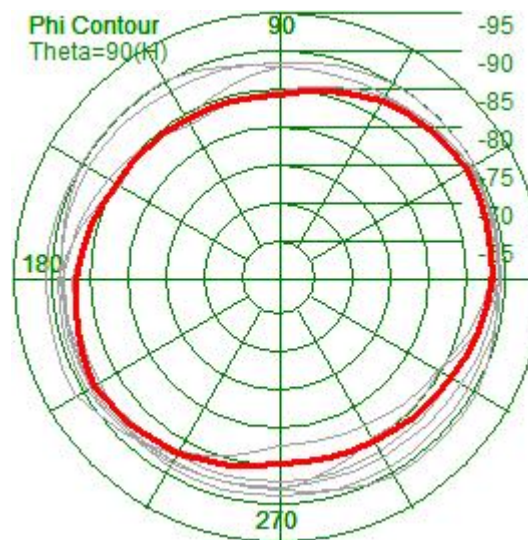
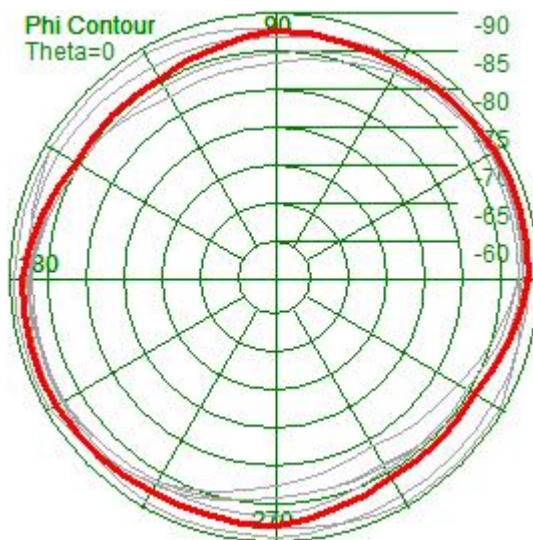
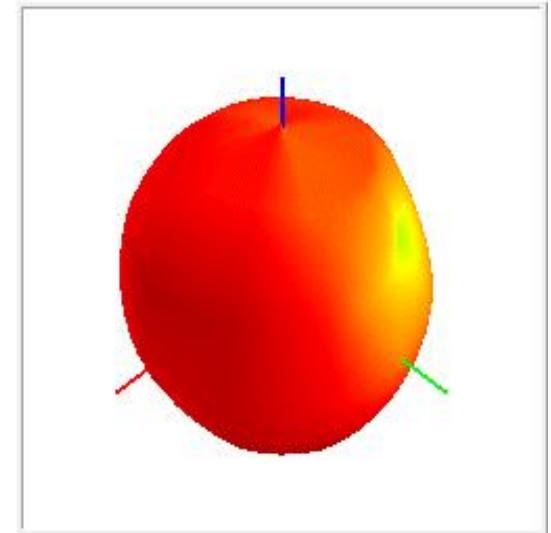
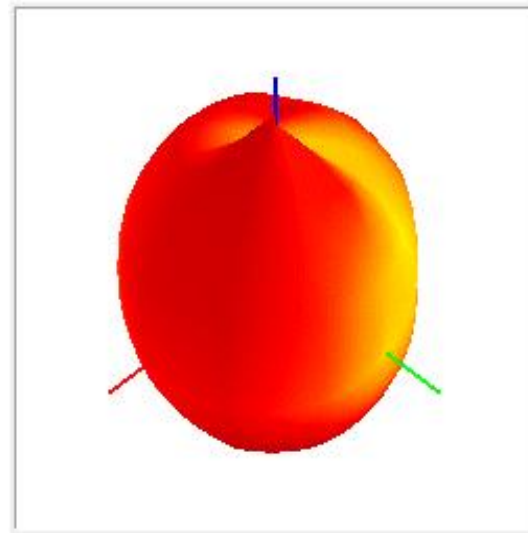
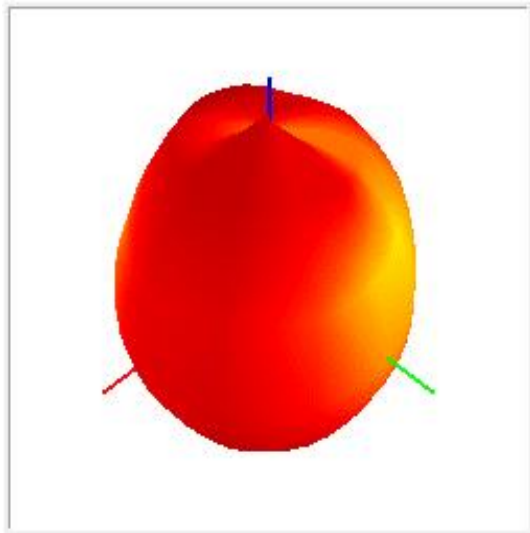
TRP



4.4 Test Result

2 2D Pattern——**BTANT**

TIS



Thank you!