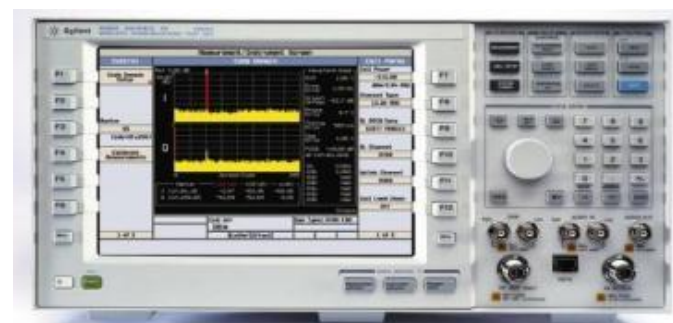




Customer	Jialide
Project	A816S
Antenna Revision	A0
Prepared by	18814303605
Checked by	
Date :	2025. 09. 08

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 **A8 16 S** The antenna operating frequency at 2400MHz0-2500MHz 。 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

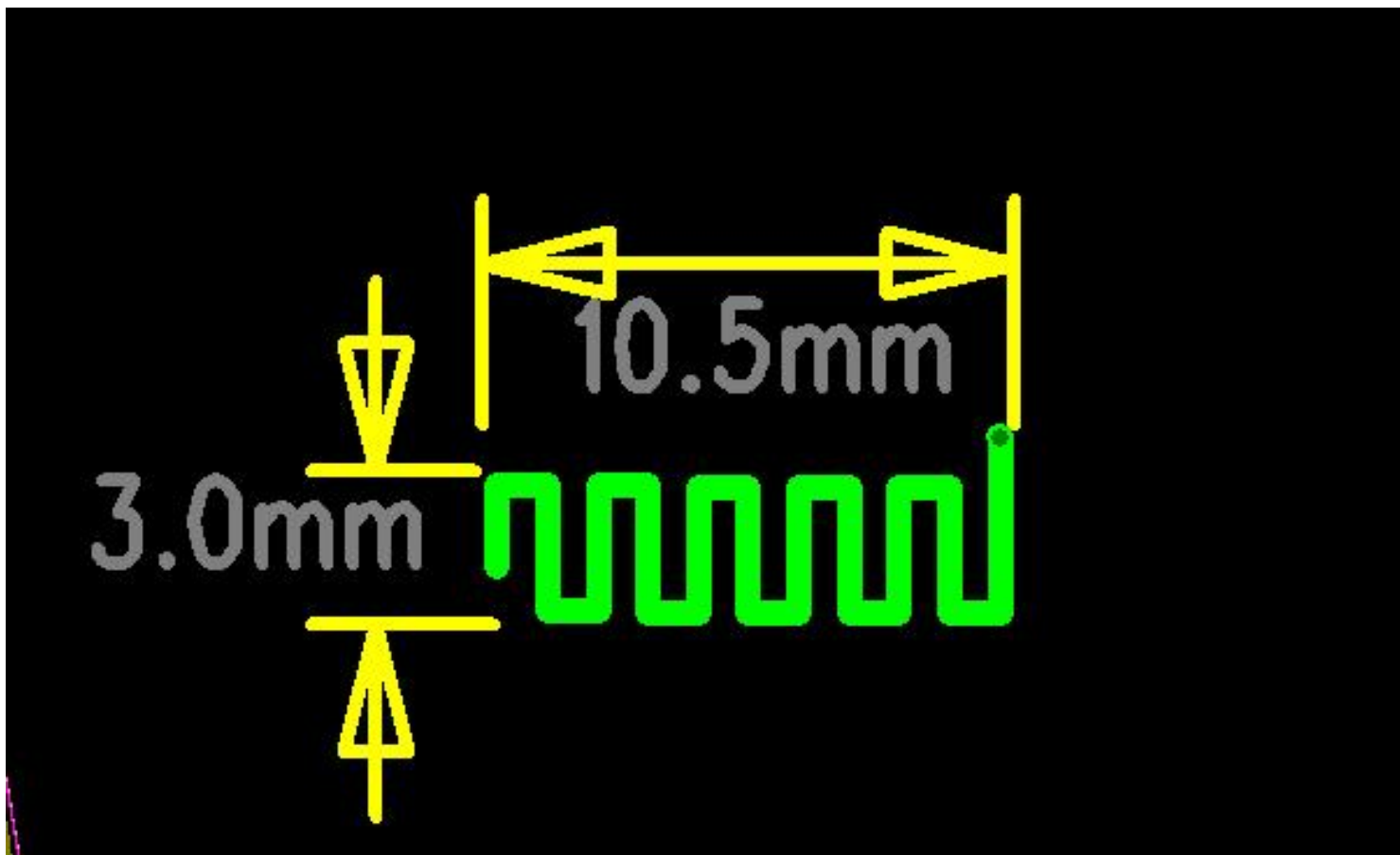
3.3 2D Pattern

4. OTA

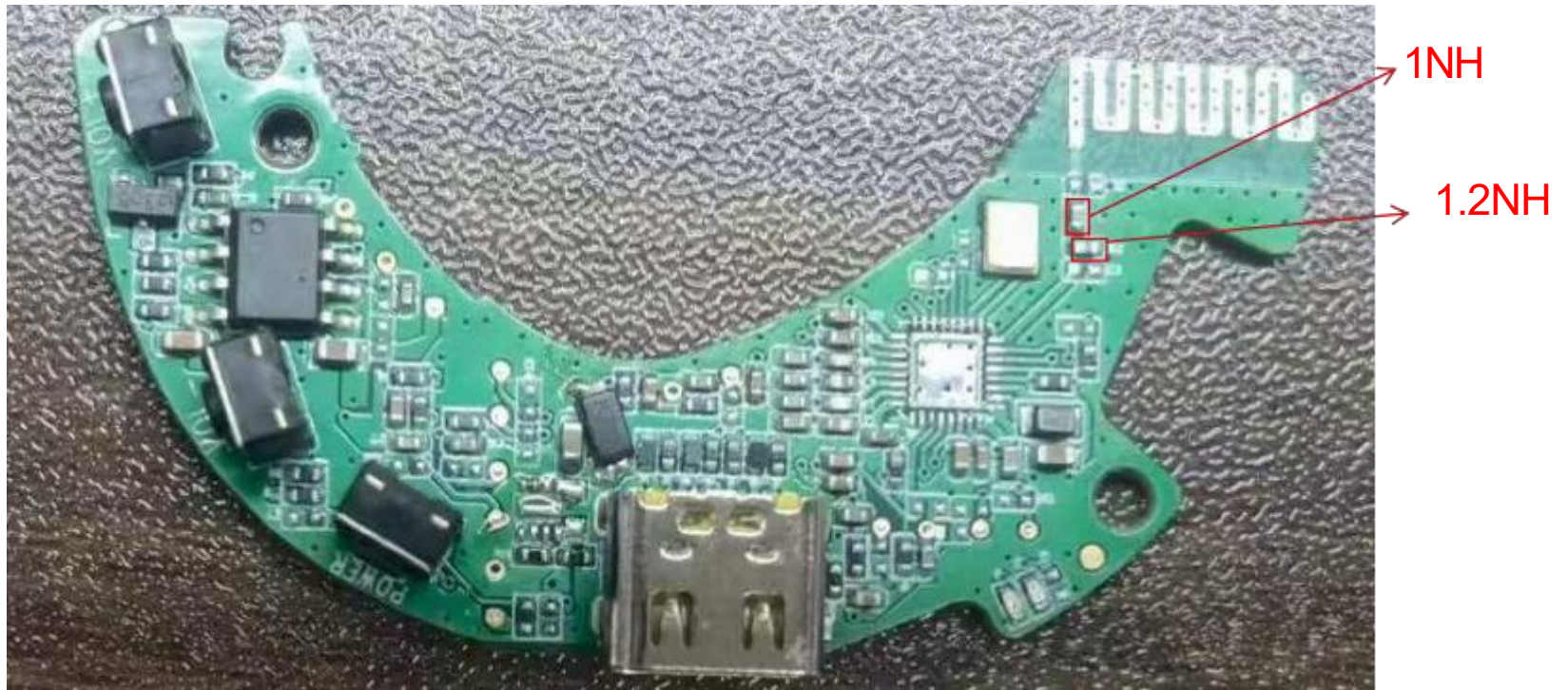
4.1Test Result

4.2 2D Pattern





Matching graph



3. 1Test Result

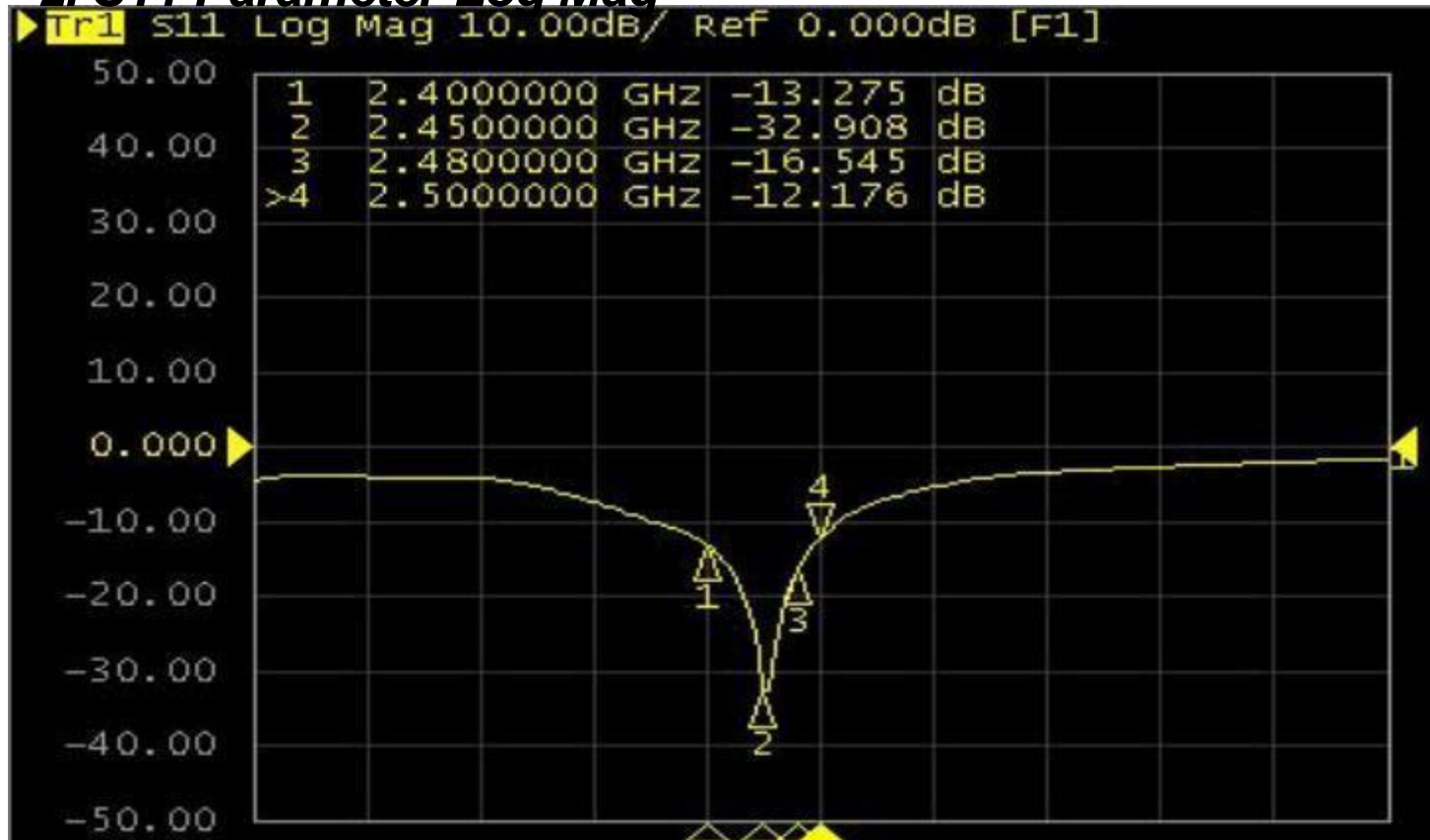
1. S11 Parameter-VSWR



Frequency (MHz)	2400	2450	2480	2500
VSWR	1.55	1.04	1.35	1.65

3. 1Test Result

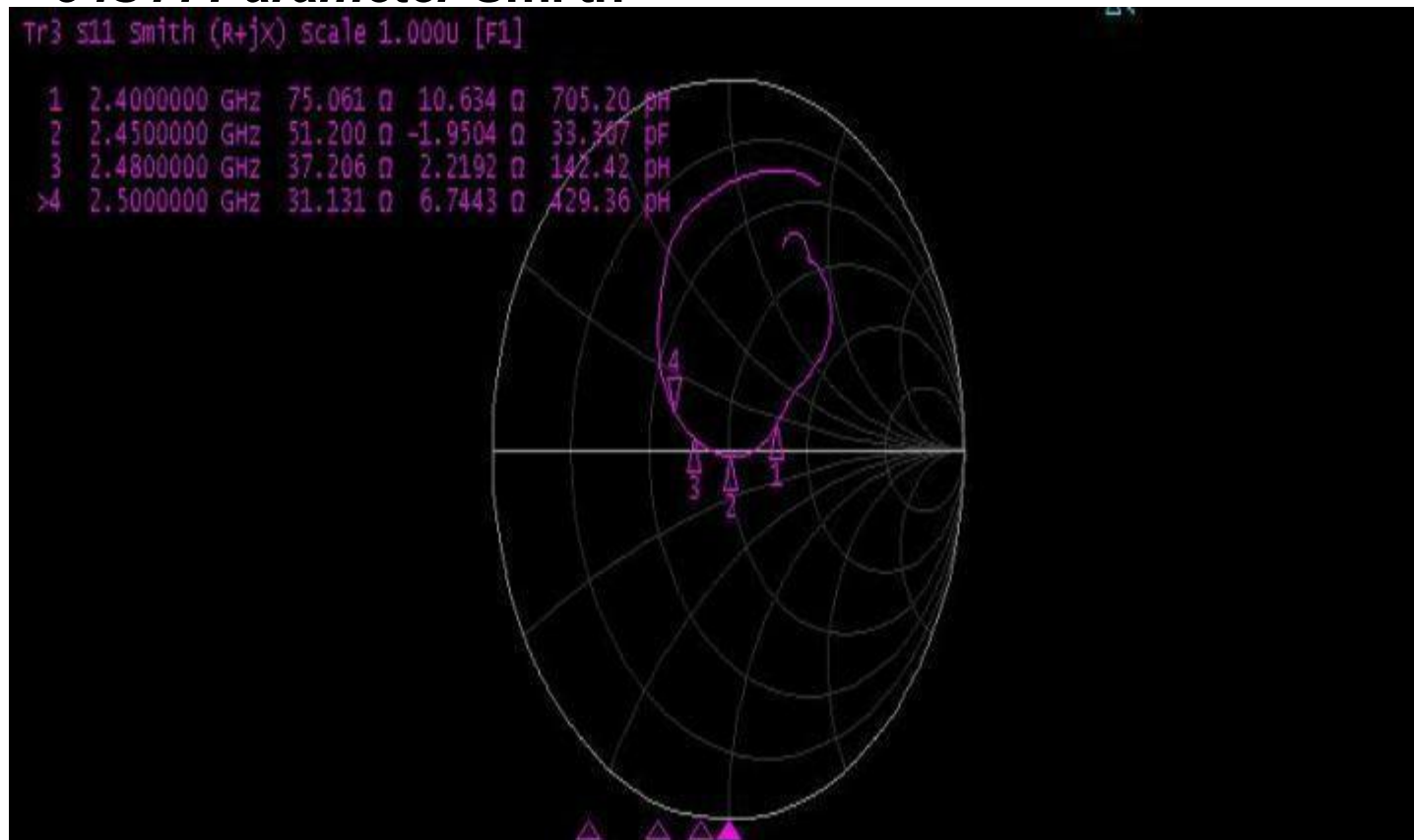
2. S11 Parameter-Log Mag



Frequency (MHz)	2400	2450	2480	2500
Log Mag	-13.27	-32.90	-16.54	-12.17

3. 1Test Result

3.S11 Parameter-Smith



Frequency (MHz)	2400	2450	2480	2500
Smith (Ω)	75.06	51.20	37.20	31.13

3.2 Test Result

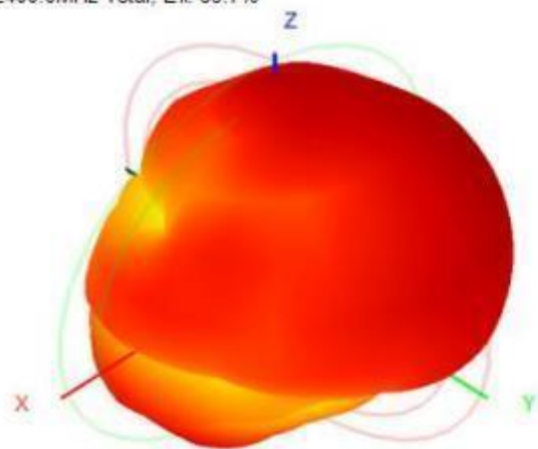
1 Gain & Efficiency——**ANT**

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	53.72%	3.23
2410	53.50%	3.55
2420	53.12%	3.78
2430	52.93%	4.11
2440	52.58%	4.54
2450	52.52%	5.04
2460	51.55%	5.24
2470	50.50%	5.16
2480	48.96%	4.86

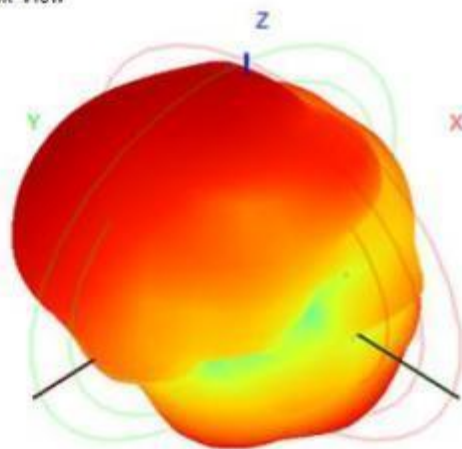
3.3 Test Result

1 2D Pattern——BTANT

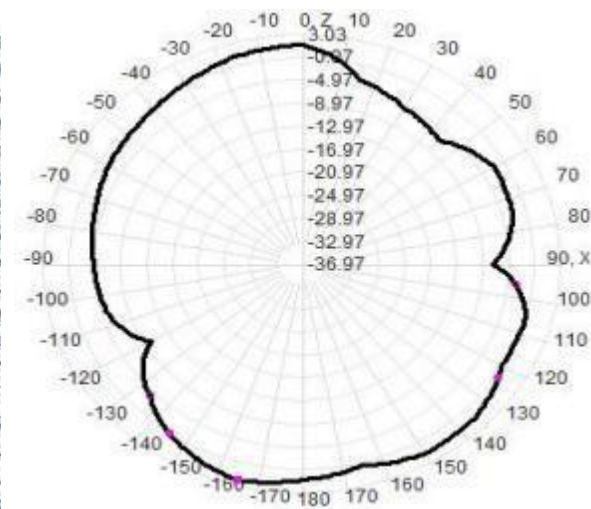
2400.0MHz Total, Eff. 53.7%



Back View



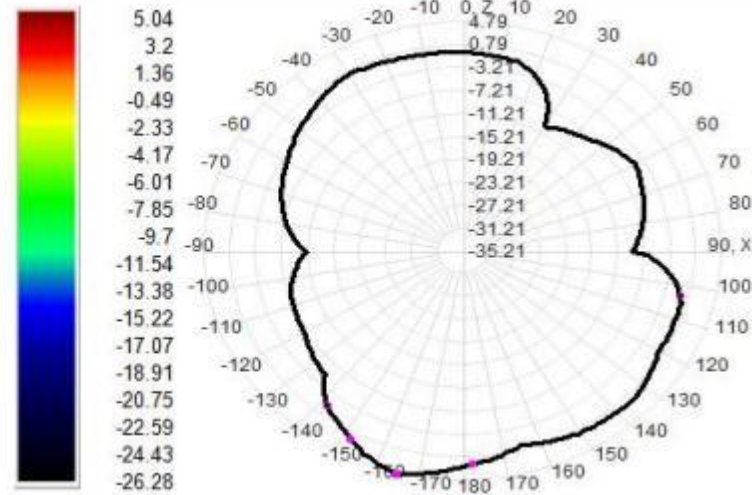
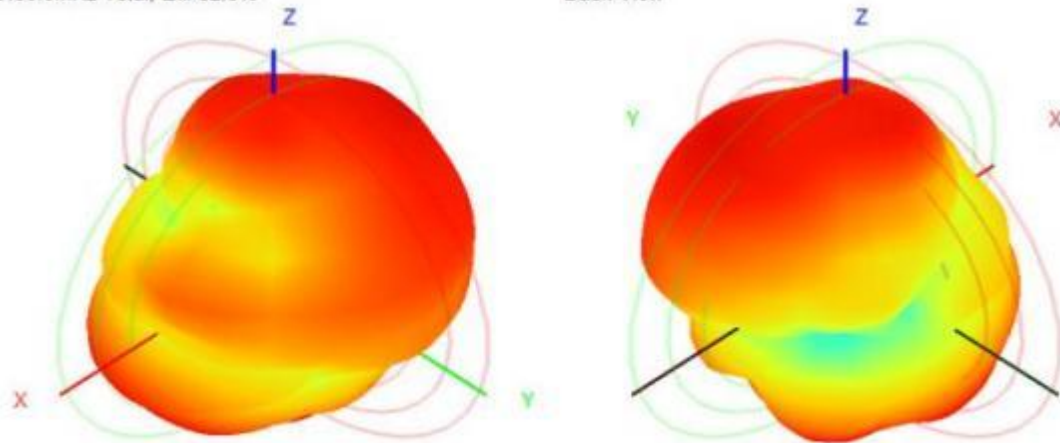
3.23
1.39
-0.45
-2.29
-4.13
-5.98
-7.82
-9.66
-11.5
-13.34
-15.19
-17.03
-18.87
-20.71
-22.55
-24.4
-26.24
-28.08



3.3 Test Result

2 2D Pattern——BTANT

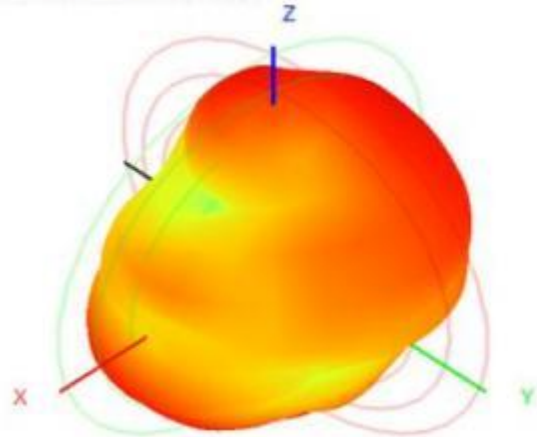
2450.0MHz Total, Eff. 52.5%



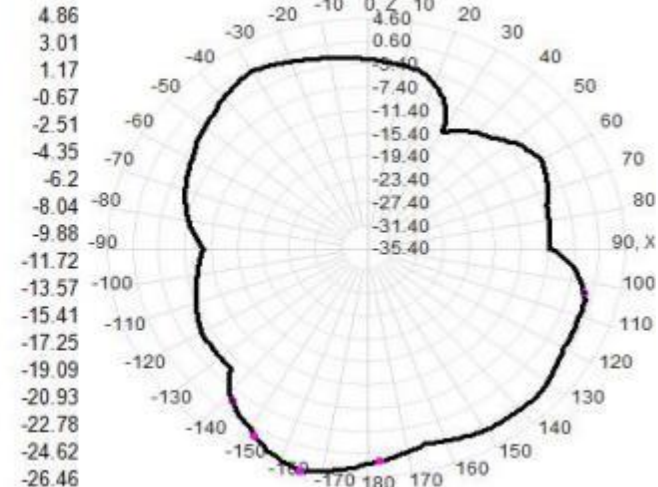
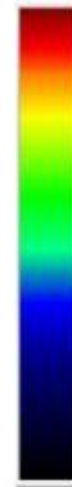
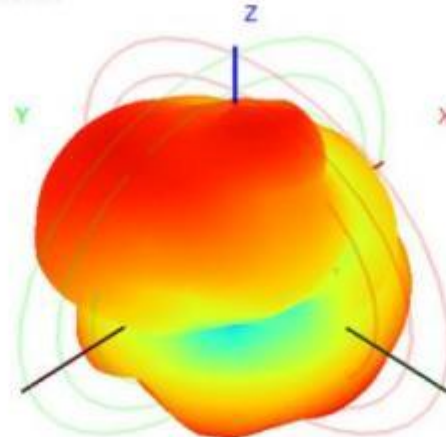
3.3 Test Result

3 2D Pattern——**BTANT**

2480.0MHz Total, Eff 49.0%



Back View



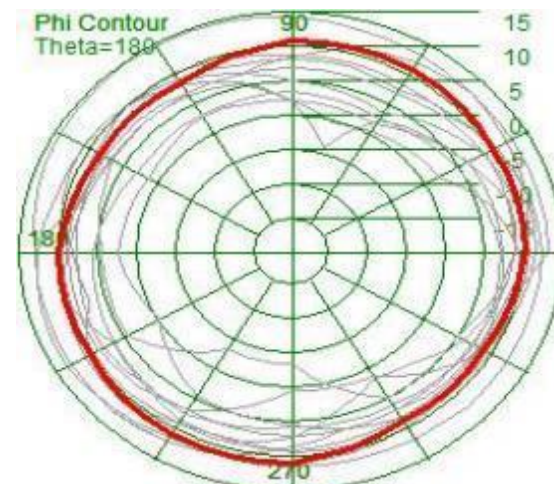
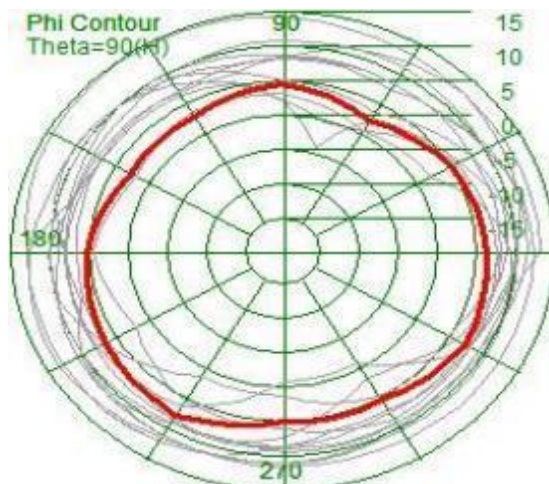
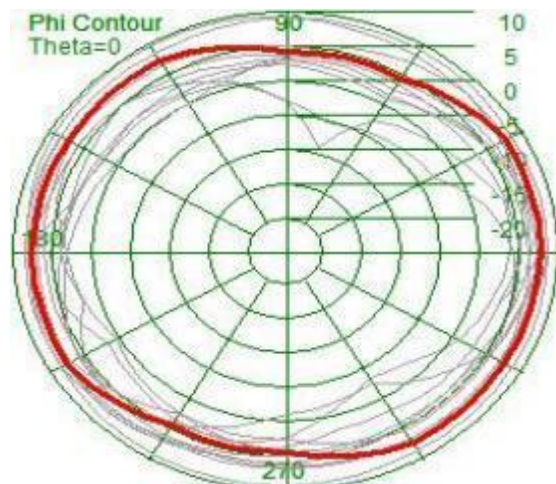
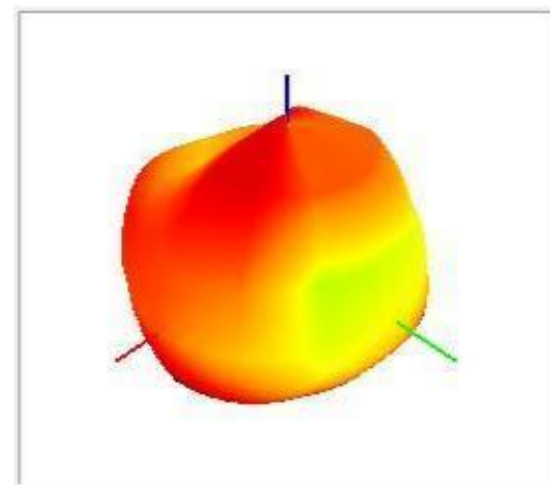
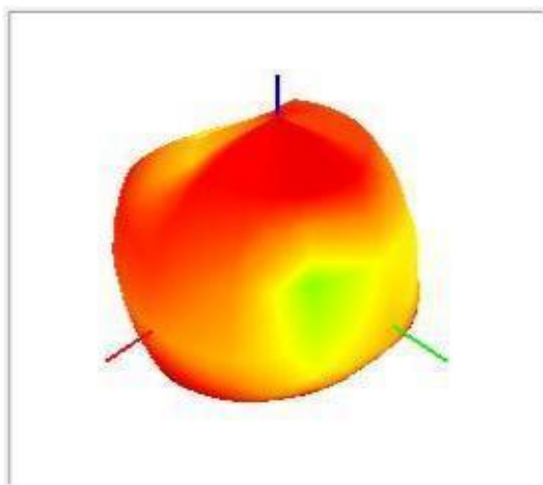
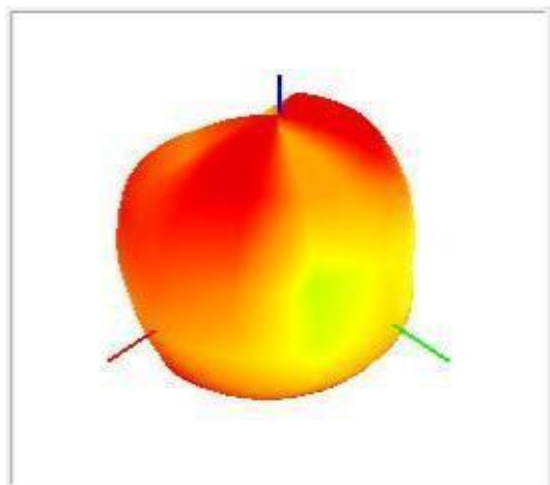
4.1 OTA Data

Test Equipment:	R&S CMW500		
Test Condition:	2 D chamber		
Band	Channel	TRP(dBm)	TIS(dBm)
BT	0	5.16	-93.23
	39	6.60	-93.76
	78	6.43	-92.90

4.2 Test Result

1 2D Pattern——**BTANT**

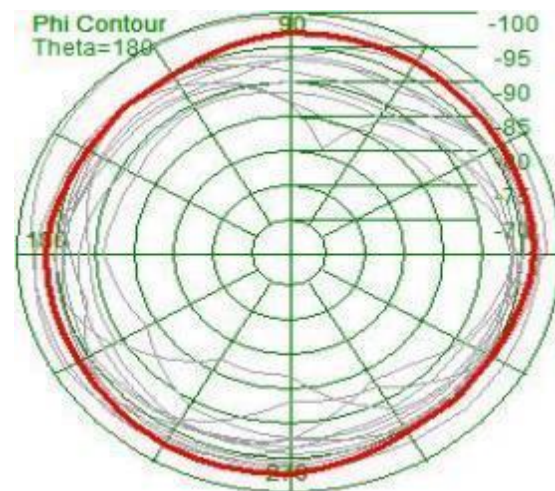
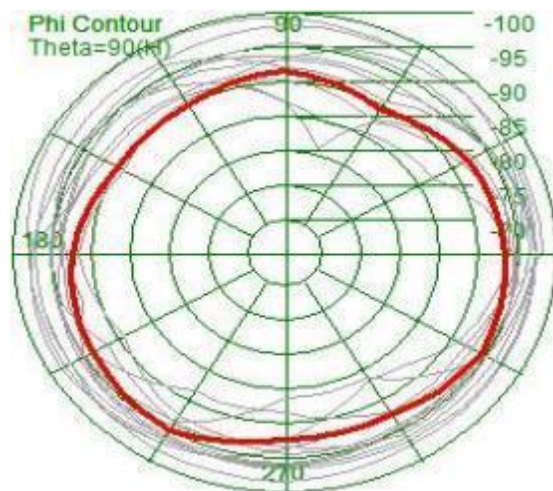
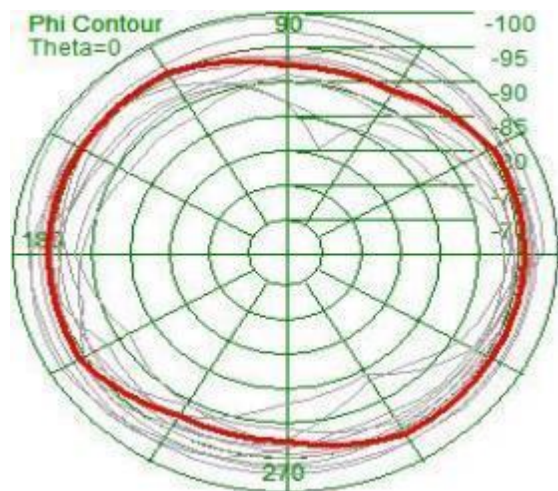
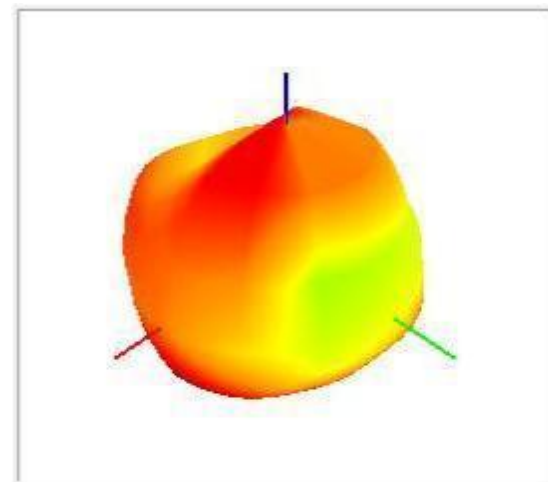
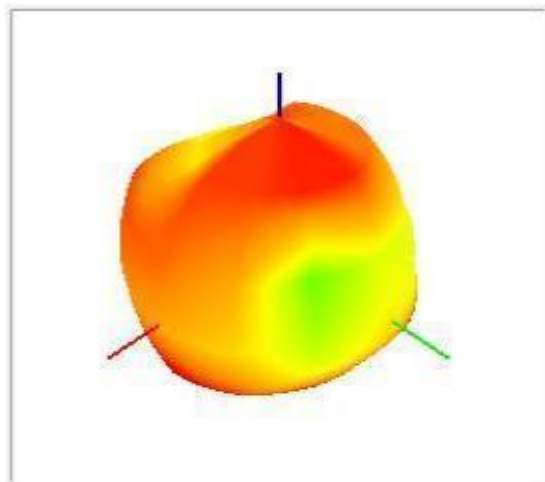
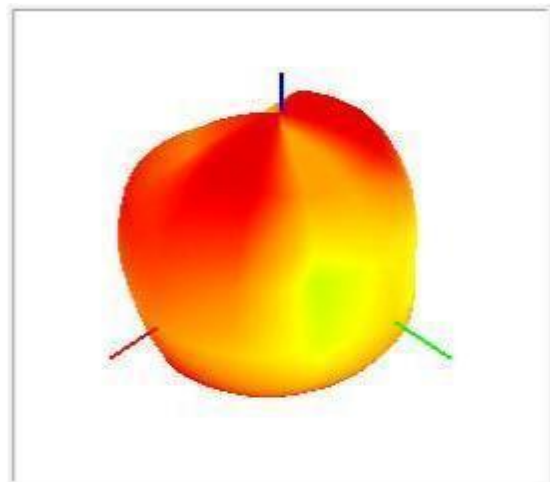
TRP



4.2 Test Result

2 2D Pattern——**BTANT**

TIS



Thank you!