Antenna Test Report

Customer	时光舟
Project	V8
Antenna Revision	A0
Prepared by	18814303605
Checked by	
Date：	2025.01.02

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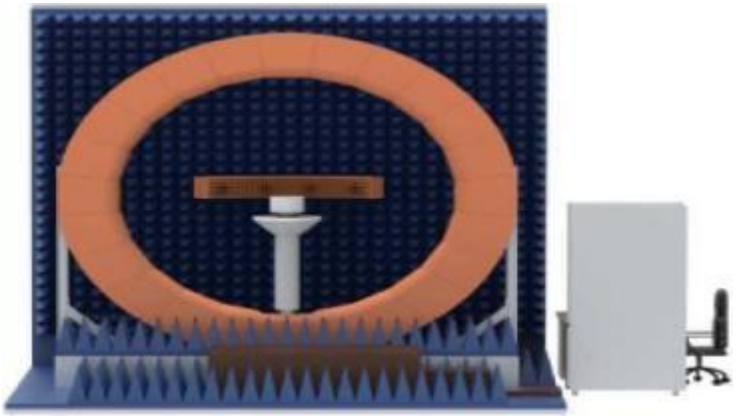
2.TestSystem

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 2400MHz0-2500MHz 。 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

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V8

4.1 Test Result

1 S11 Parameter-VSWR

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

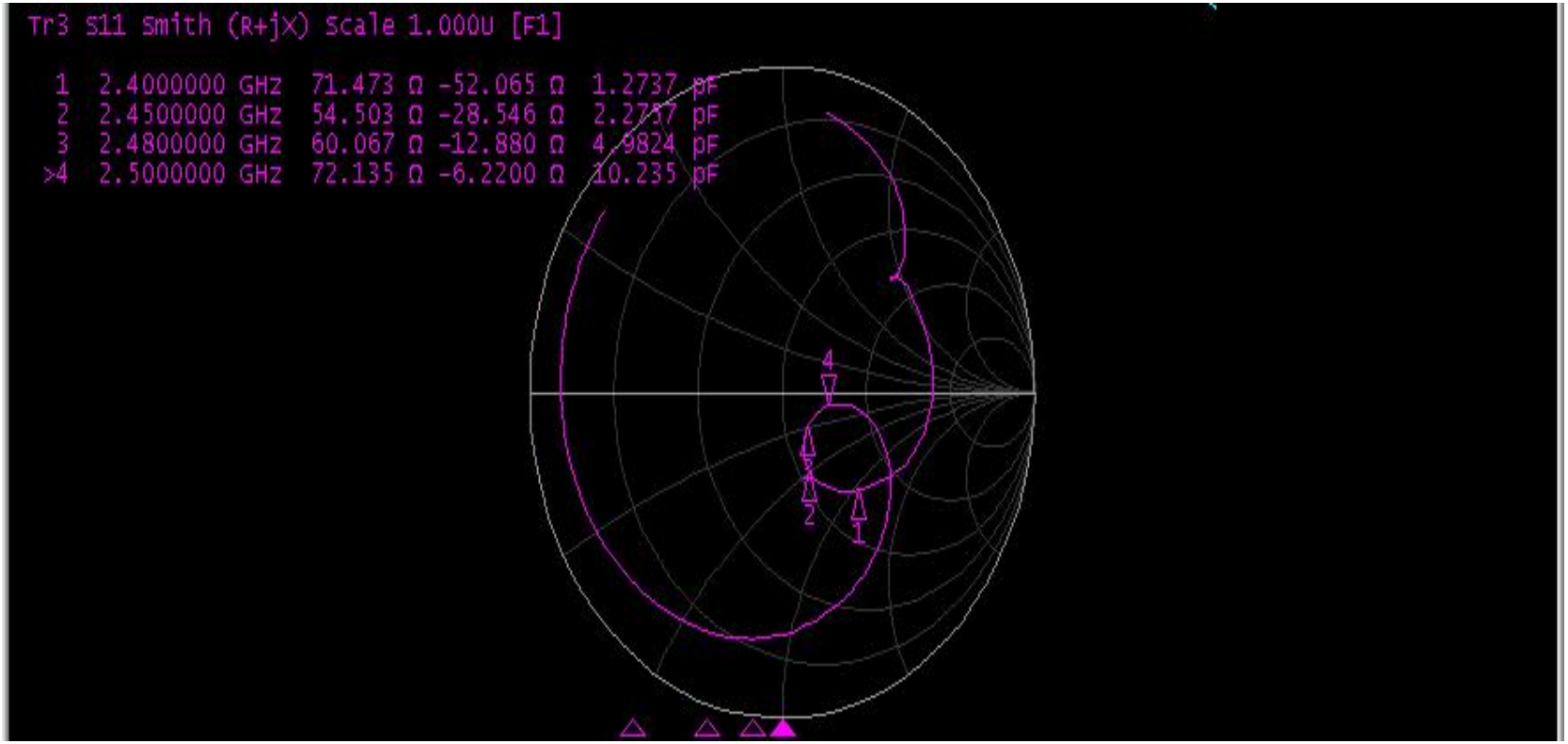
4.1Test Result

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

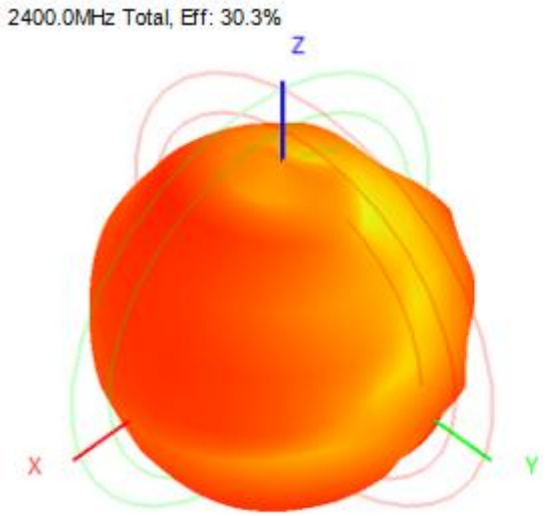
4.2 Test Result

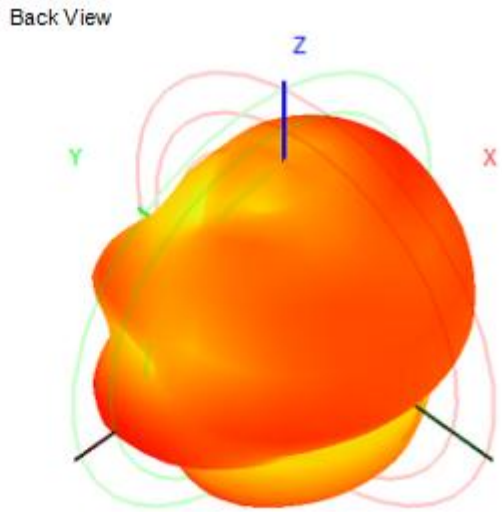
1 Gain & Efficiency——ANT

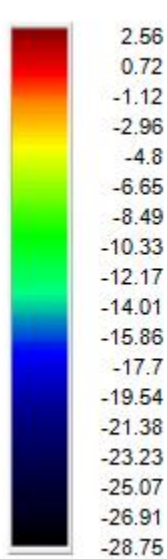
Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	30.28	2.56
2410	31.05	2.83
2420	31.66	3.03
2430	32.71	3.27
2440	33.56	3.48
2450	34.58	3.68
2460	35.20	3.74
2470	35.18	3.61
2480	34.45	3.29

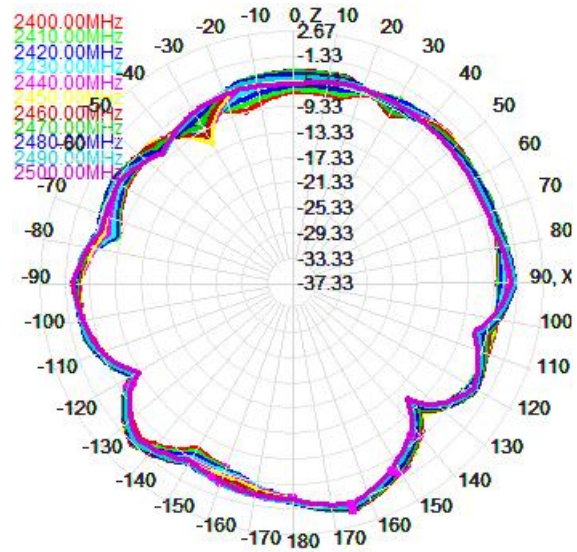
4.3 Test Result

1 2D Pattern——BTANT



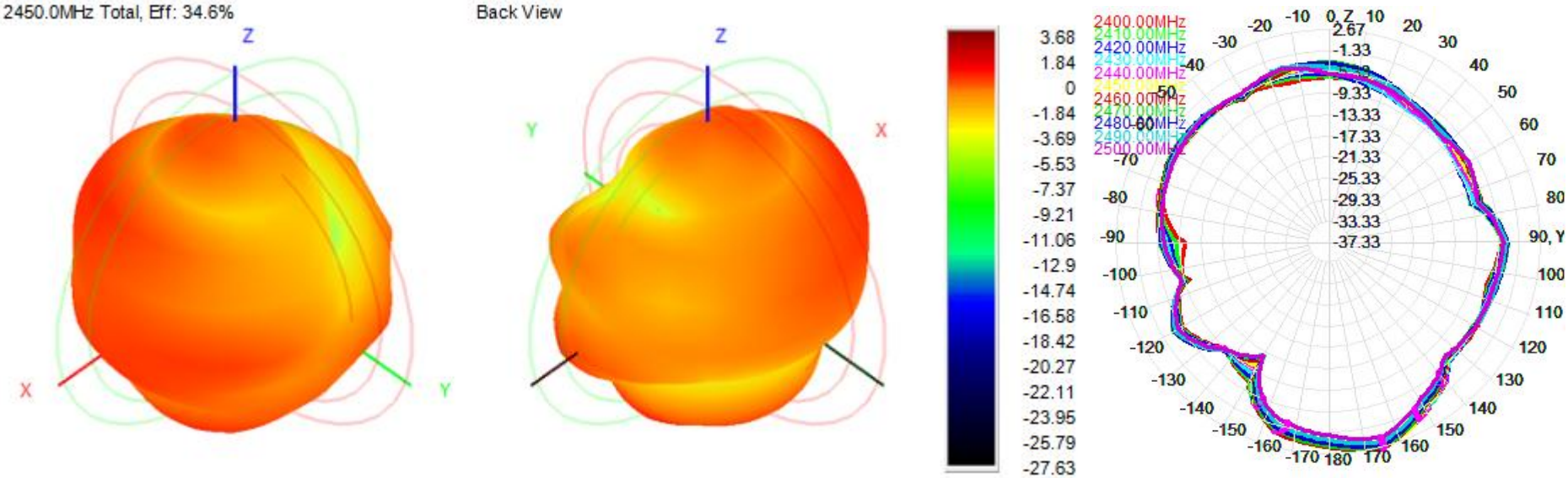






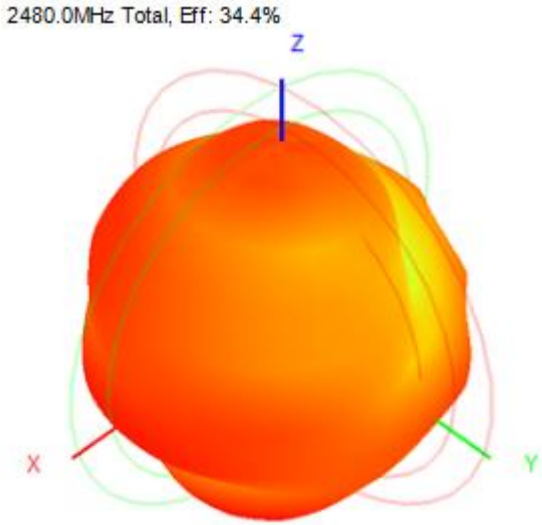
4.3 Test Result

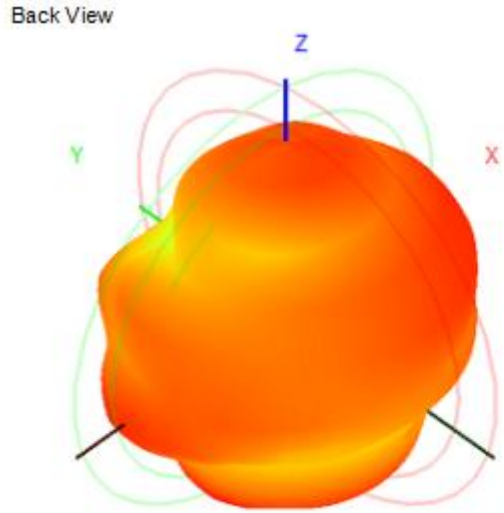
2 2D Pattern——BTANT

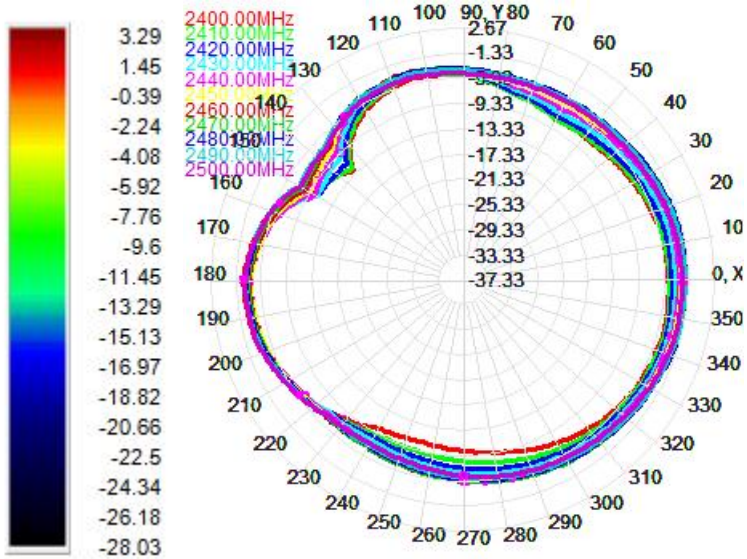


4.3 Test Result

3 2D Pattern——BTANT







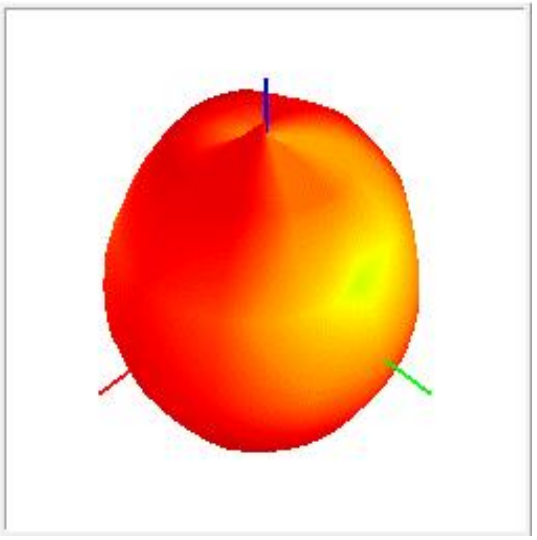
4.4 OTA Data

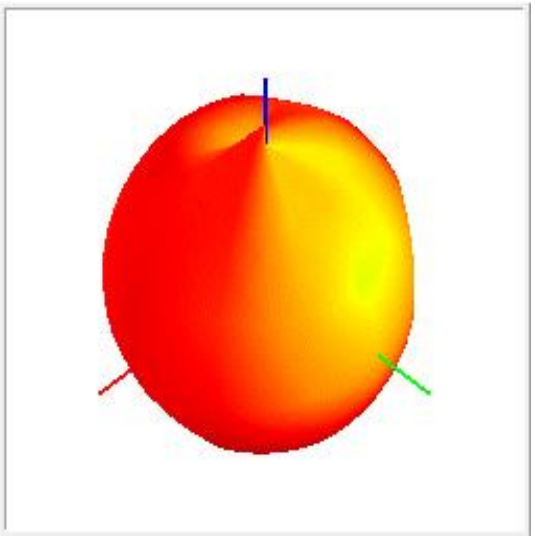
Test Equipment:	R&S CMW500		
Test Condition:	2 D chamber		
Band	Channel	TRP(dBm)	TIS(dBm)
BT-L	0	-0.82	-85.48
	39	0.11	-87.56
	78	-0.26	-87.03

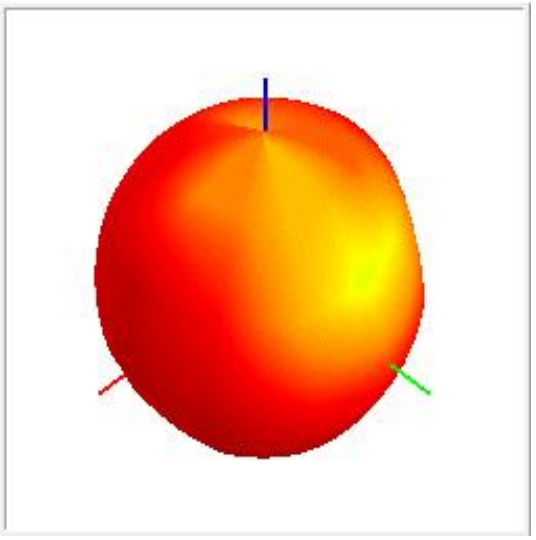
4.4 Test Result

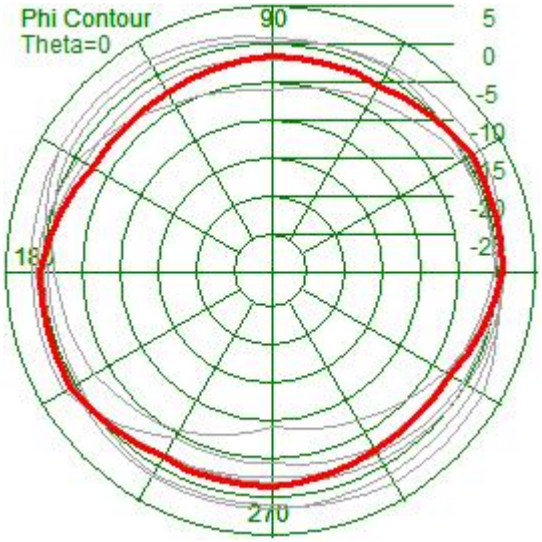
1 2D Pattern——BTANT

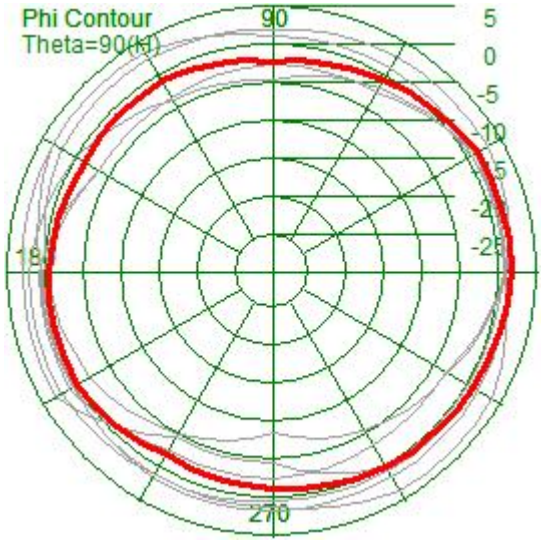
TRP

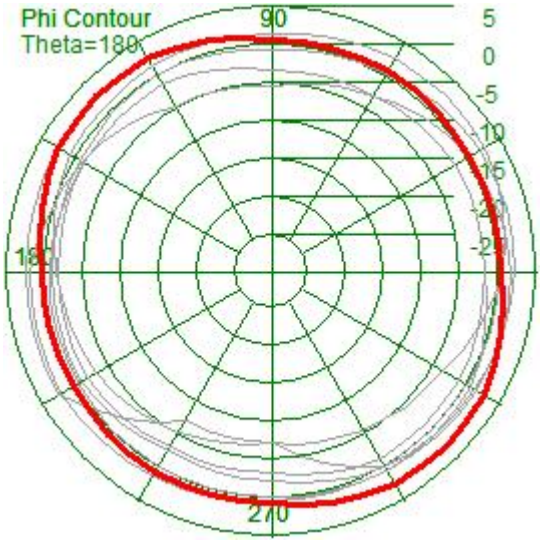








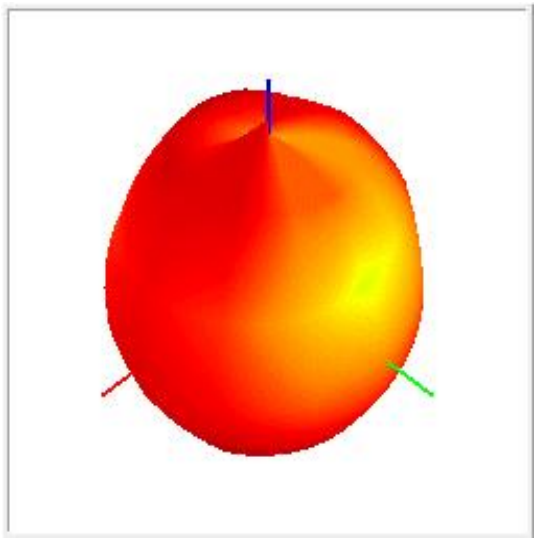


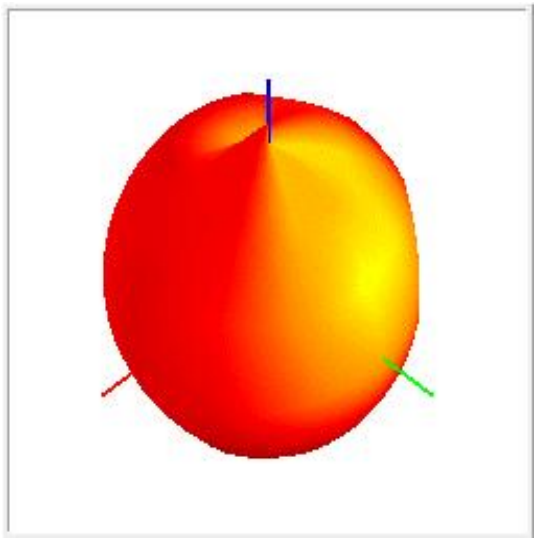


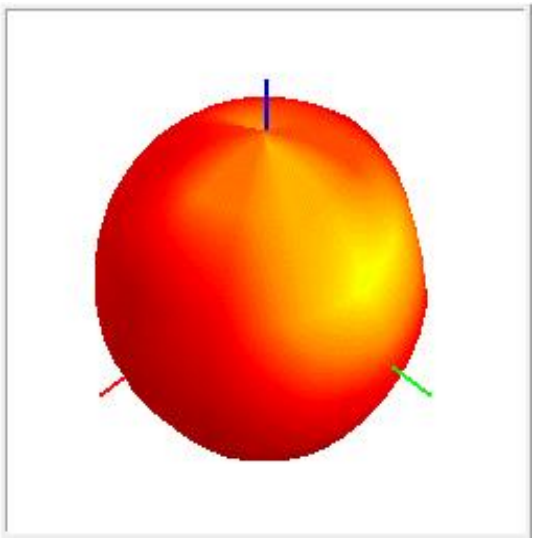
4.4 Test Result

2 2D Pattern——BTANT

TIS







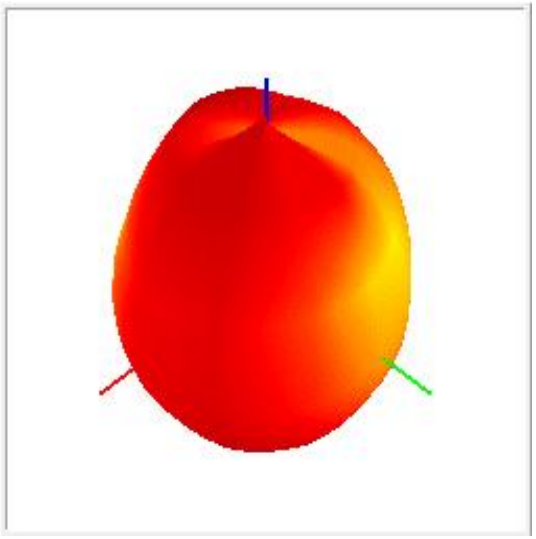
4.4 OTA Data

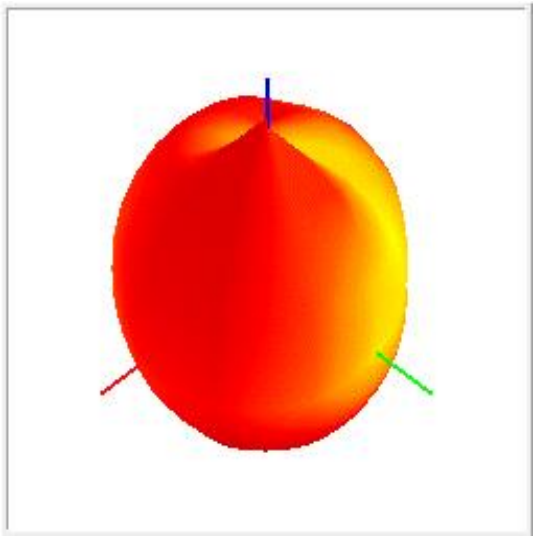
Test Equipment:	R&S CMW500		
Test Condition:	2 D chamber		
Band	Channel	TRP(dBm)	TIS(dBm)
BT-R	0	0.41	-86.64
	39	1.06	-87.49
	78	0.17	-86.63

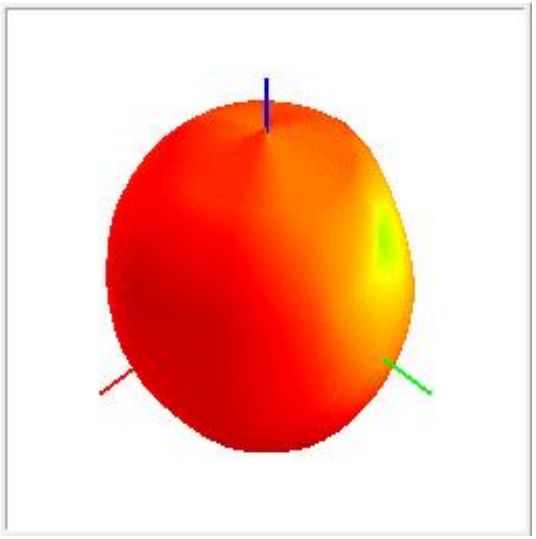
4.4 Test Result

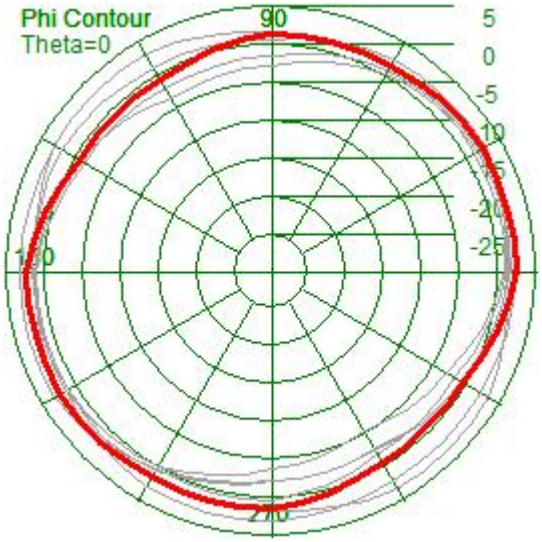
1 2D Pattern——BTANT

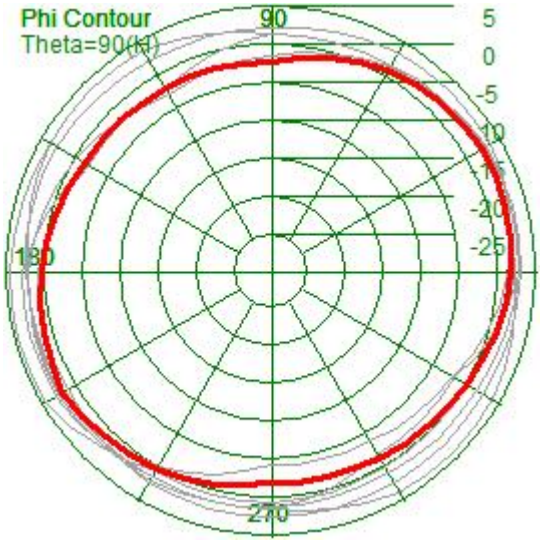
TRP

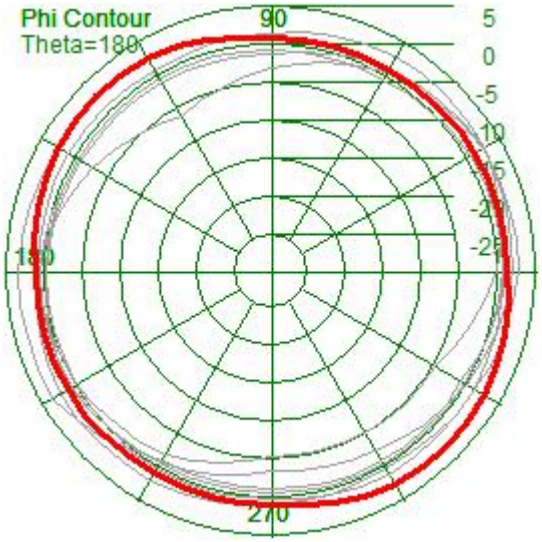








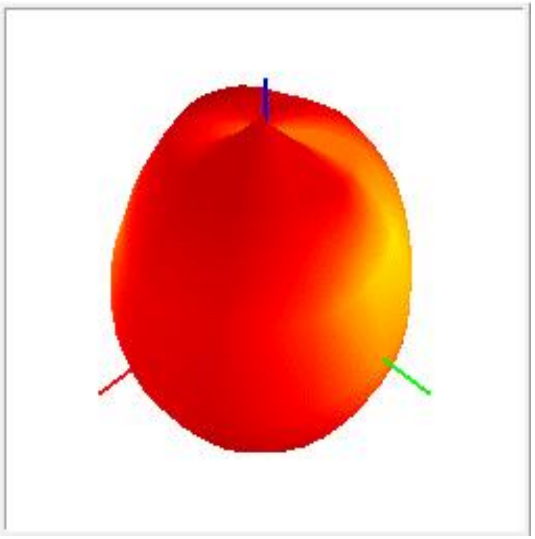


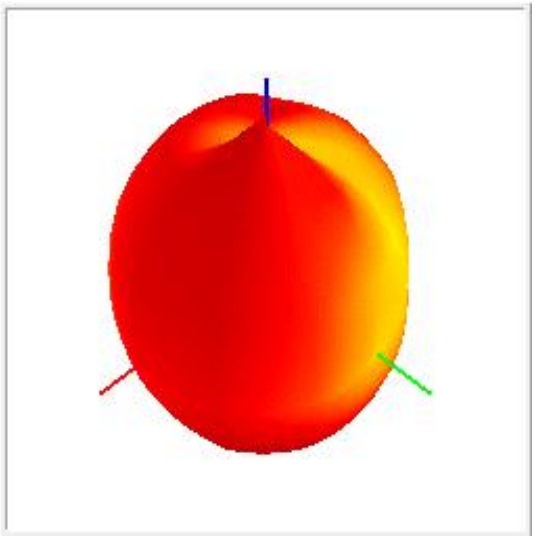


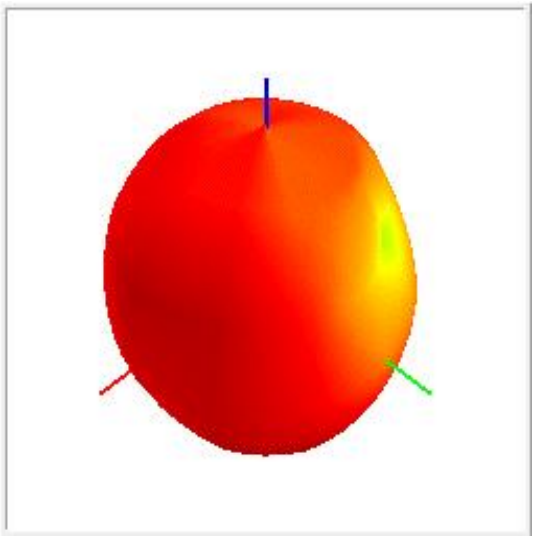
4.4 Test Result

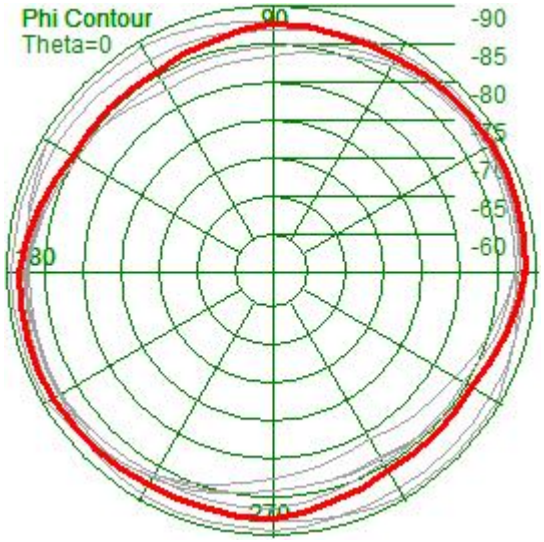
2 2D Pattern——BTANT

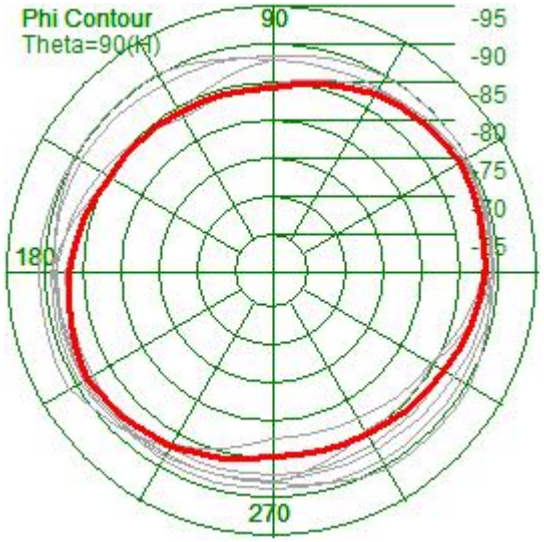
TIS

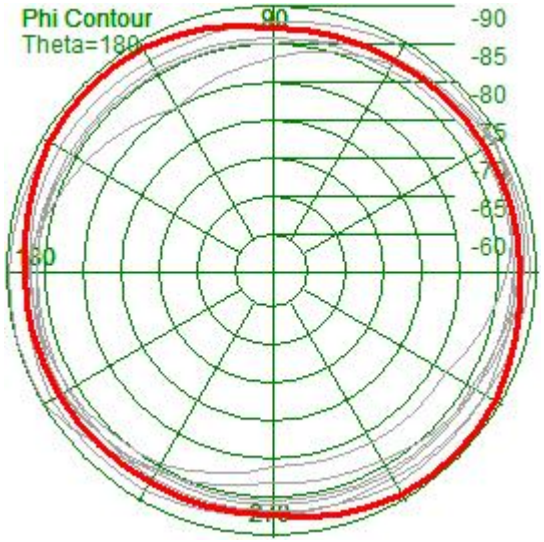












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Thank you!