

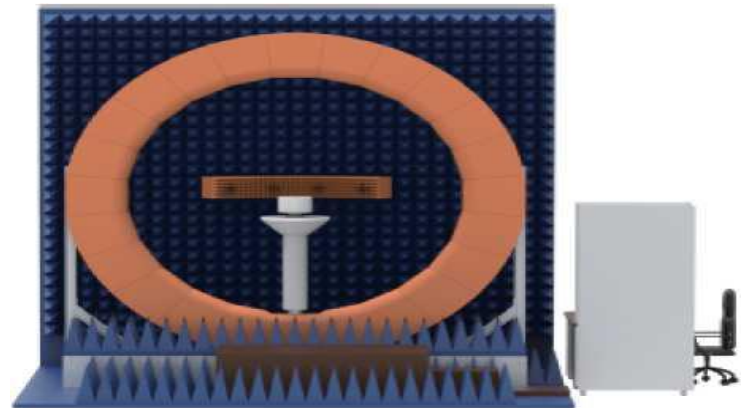
HELIX 合立讯 Antenna Test Report



Customer	兴威
Project	XP016
Antenna Revision	A0
Prepared by	18814303605
Checked by	
Date:	2024. 08. 2

2. Test System

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 **XP016** The antenna operating frequency at 2400MHz-2500MHz 。 All test data are showed as below.

Content

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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

4.5OTA

4.Test Result

4.1 S11 Parameter-VSWR



Frequency (MHz)	2400	2450	2480	2500
VSWR	1.36	1.20	1.27	1.30

4. Test Result

4.1 S11 Parameter-Log Mag

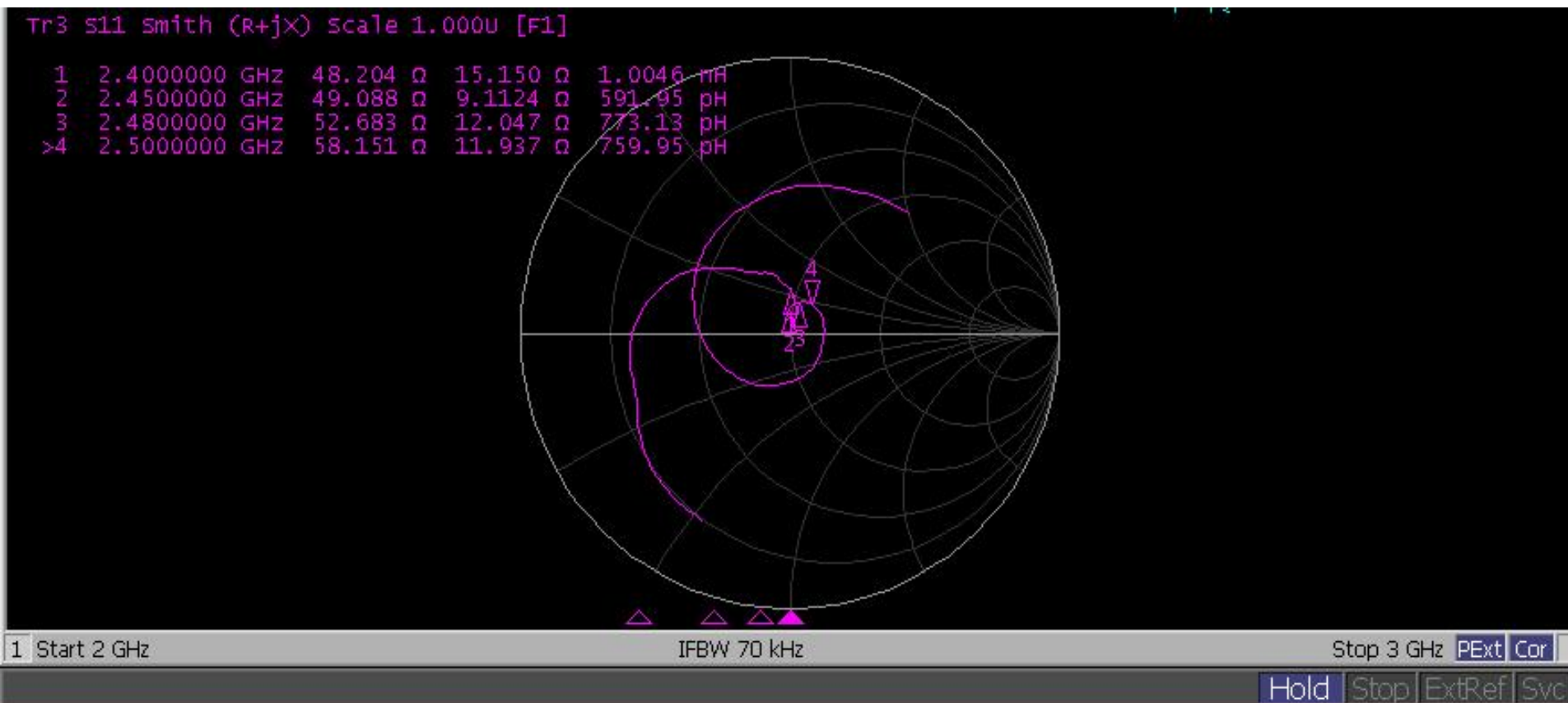
Tr1 S11 Log Mag 10.00dB/ Ref 0.000dB [F1]



Frequency (MHz)	2400	2450	2480	2500
Log Mag	-16.27	-20.72	-18.46	-17.53

4.Test Result

4.1 S11 Parameter-Smith



Frequency (MHz)	2400	2450	2480	2500
Smi th(Ω)	48.20	49.08	52.68	58.15

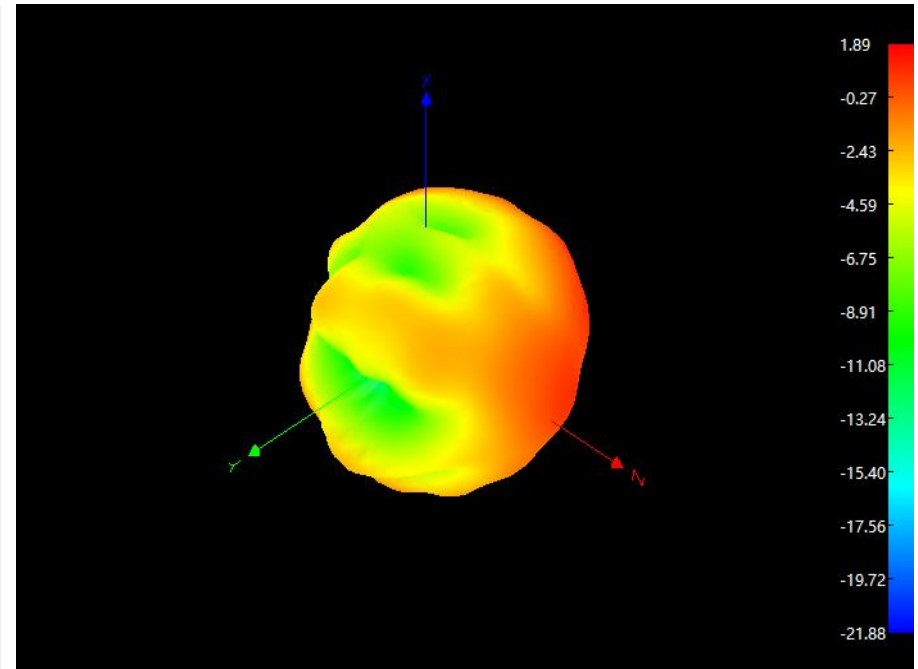
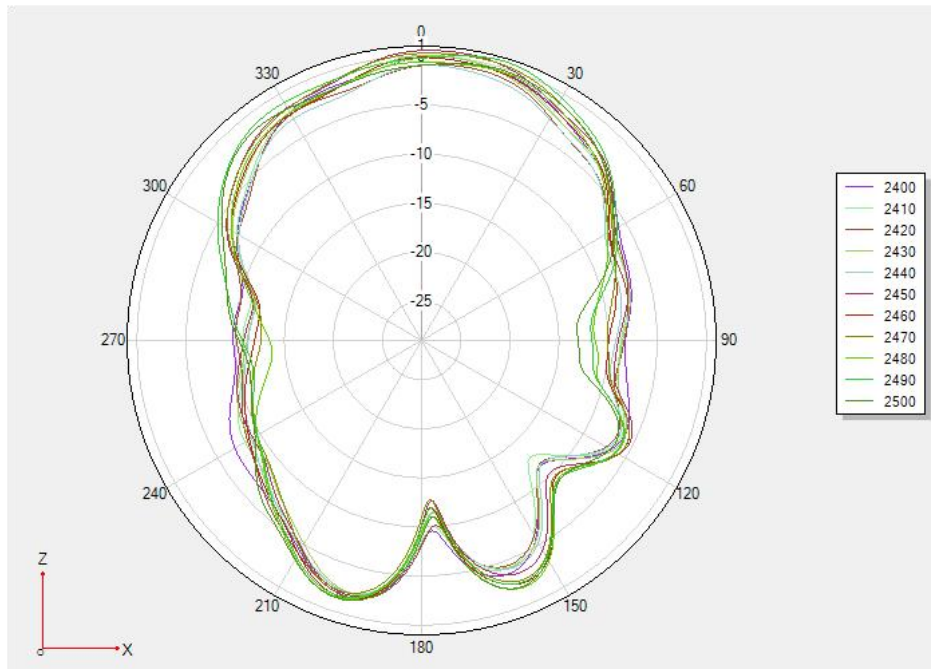
4. Test Result

4.2 Gain & Efficiency—**ANT**

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	37.5%	1.89
2410	34.83%	1.7
2420	35.24%	2.3
2430	36.31%	1.83
2440	34.67%	2.11
2450	42.36%	2.08
2460	40.18%	3.59
2470	40.64%	1.8
2480	37.76%	2.56

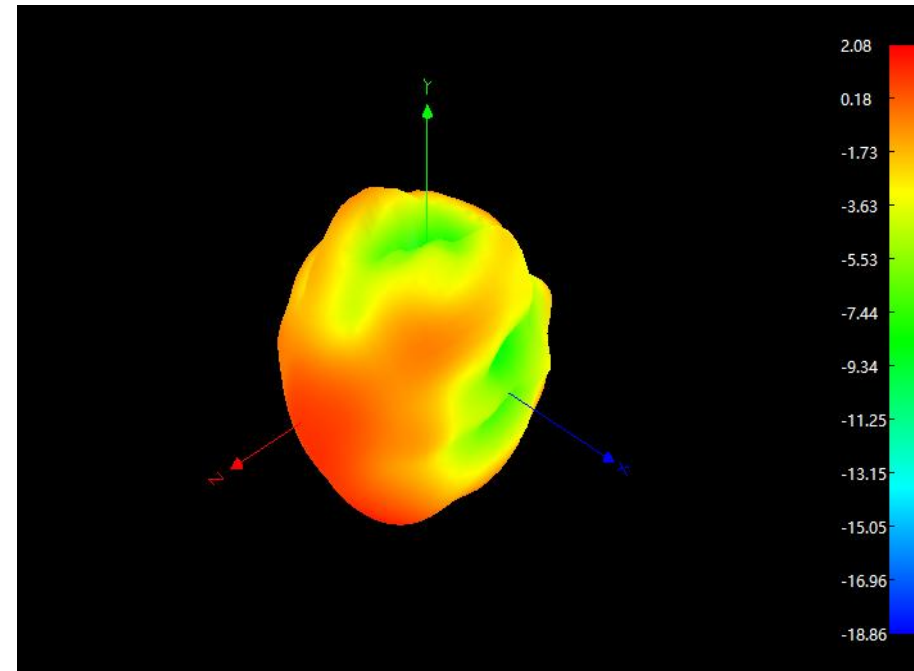
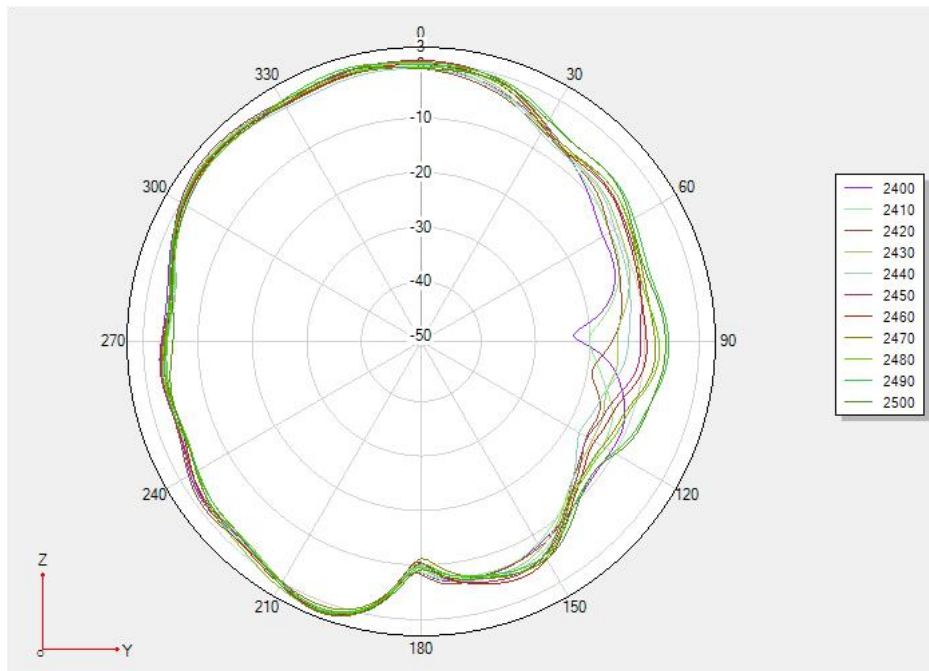
4. Test Result

4.3 2D Pattern—BT ANT



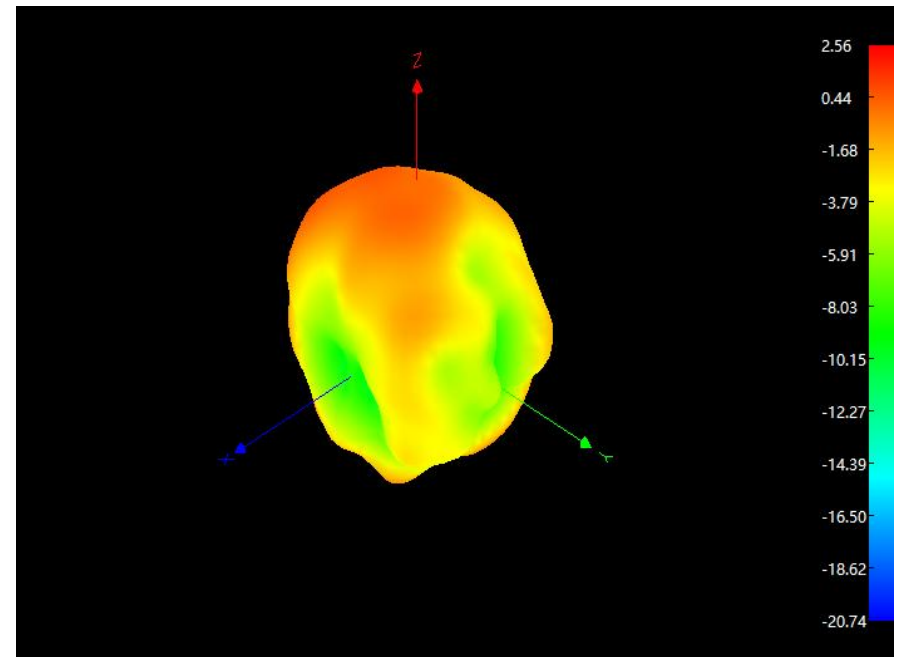
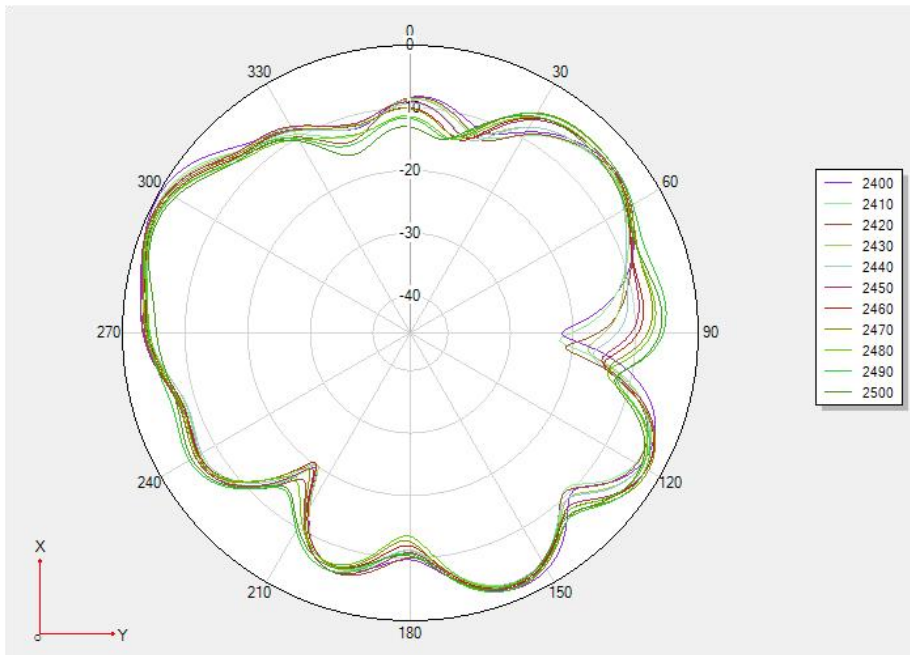
4. Test Result

4.3 2D Pattern—BT ANT



4. Test Result

4.3 2D Pattern—BT ANT

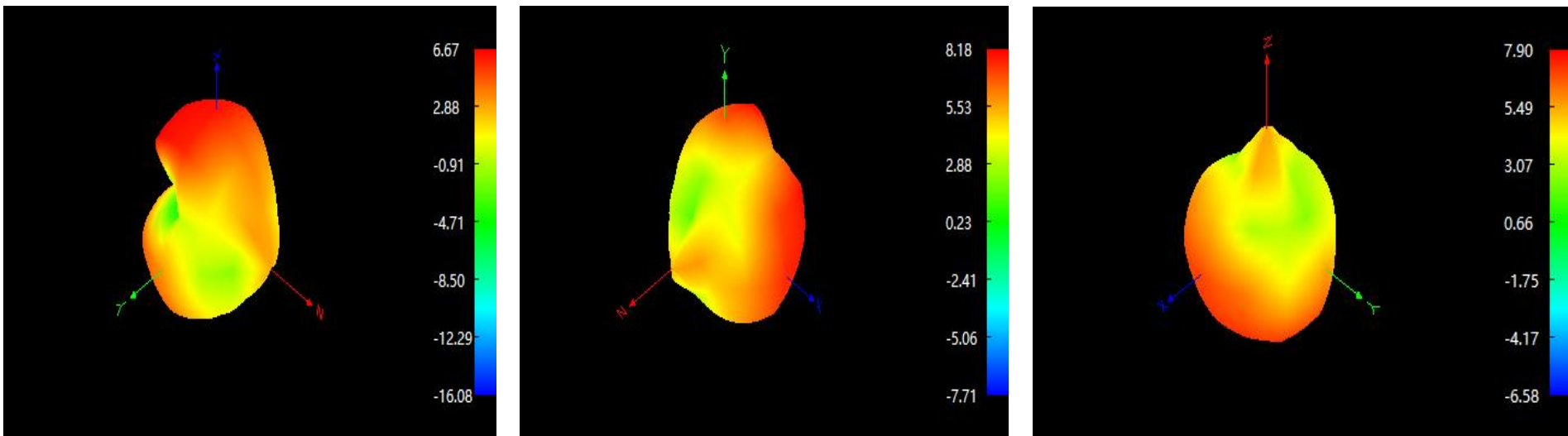


4.5 OTA Data

Test Equipment:	R&S CMW500		
Test Condition:	2D chamber		
Band	Channel	TRP(dBm)	TIS(dBm)
BT-L	0	2.29	-91.86
	39	3.75	-89.25
	78	2.97	-92.99

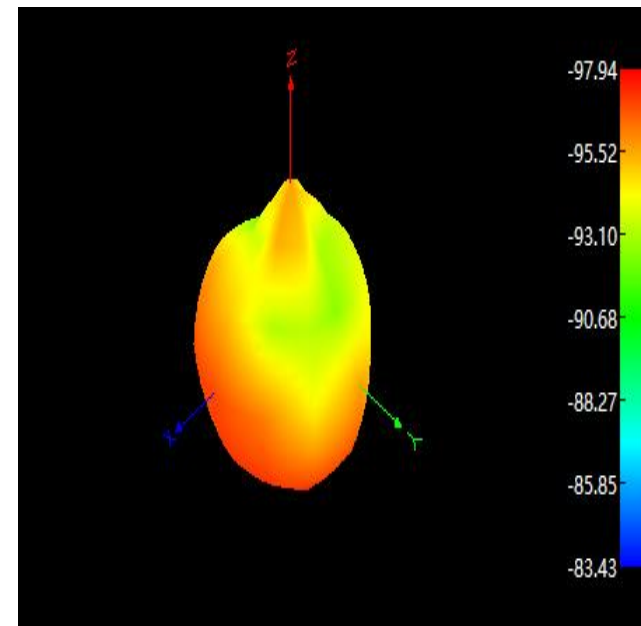
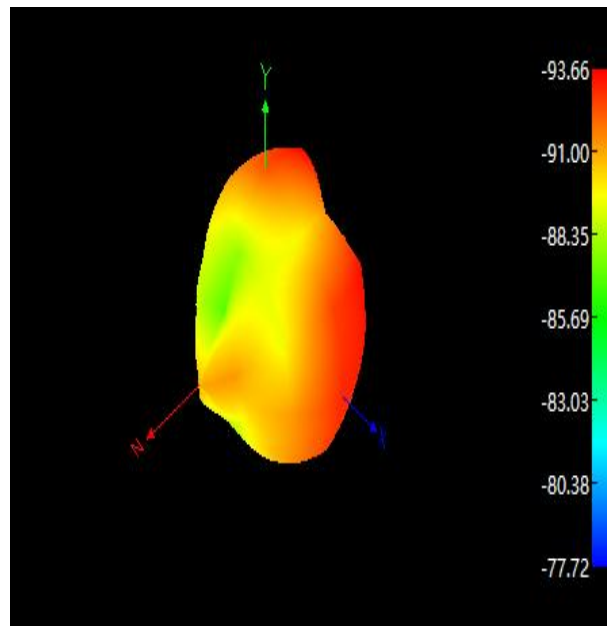
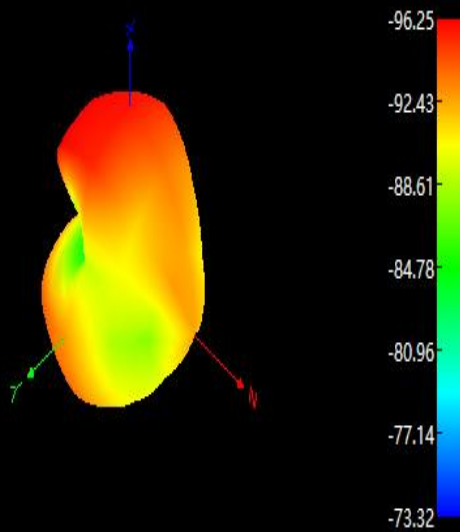
4. Test Result

4.4 2D Pattern——**BT ANT**



4. Test Result

4.4 2D Pattern——**BT ANT**



4.5 OTA Data

模拟人头数据

Test Equipment:	R&S CMW500		
Test Condition:	2D chamber		
Band	Channel	TRP(dBm)	TIS(dBm)
BT-L	0	0.54	-86.88
	39	1.66	-87.15
	78	0.82	-87.24

Thank you!