

HELIX 合立讯 Antenna Test Report



Manufacture	Shenzhen Shenglai Technology Co., Ltd Add:Zhongtai Industrial Zone, Hengshan Village, Gurao Town, Chaoyang Area, Shantou City, Guangdong Province, China
Project	UPT-BTHP02
Antenna Revision	A0
Prepared by	
Checked by	18814303605
Date:	2023. 8. 01

1. 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 **UPT-BTHP02**

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

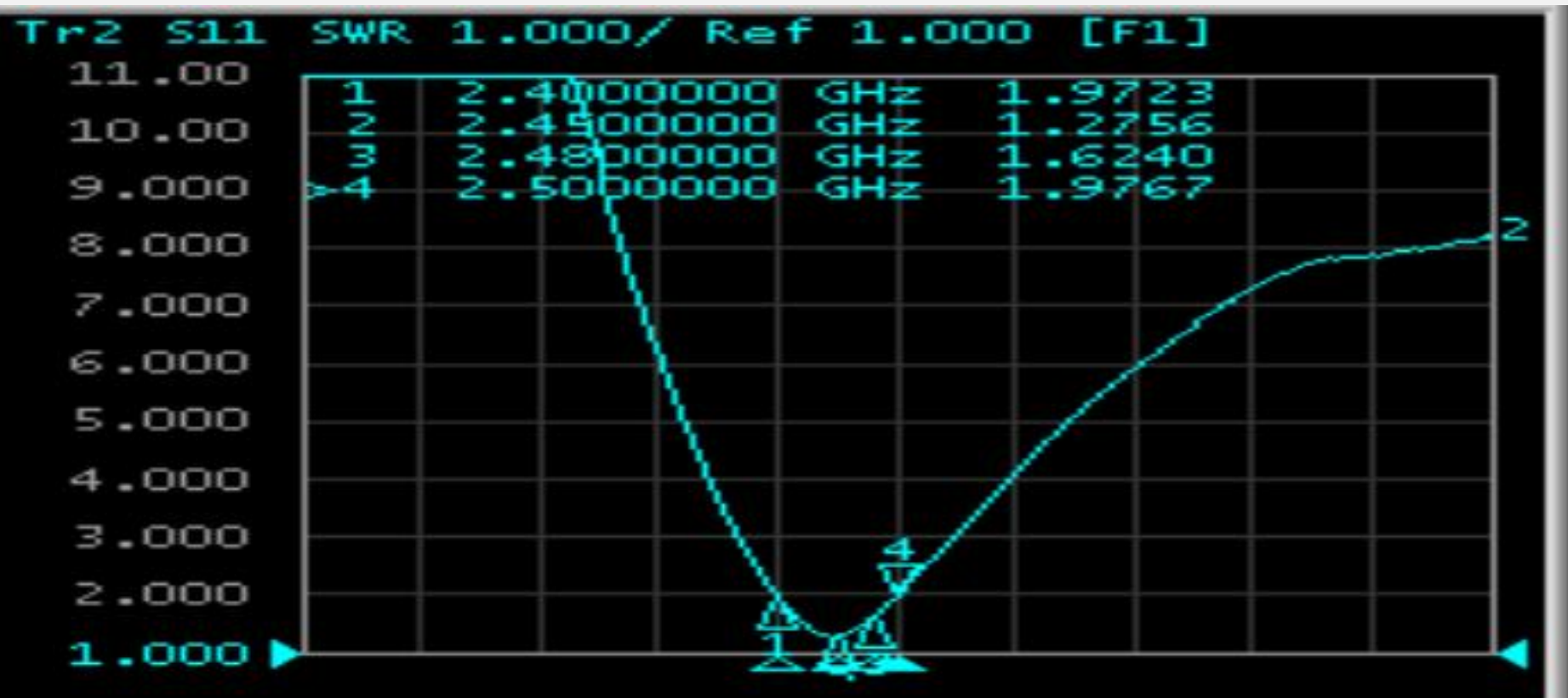
4.2 Gain & Efficiency

4.3 Test coordinate

4.4 2D Pattern

2. Test Result

2.1 S11 Parameter-VSWR



Frequency (MHz)	2400	2450	2480	2500
VSWR	1.97	1.27	1.262	1.97

2. Test Result

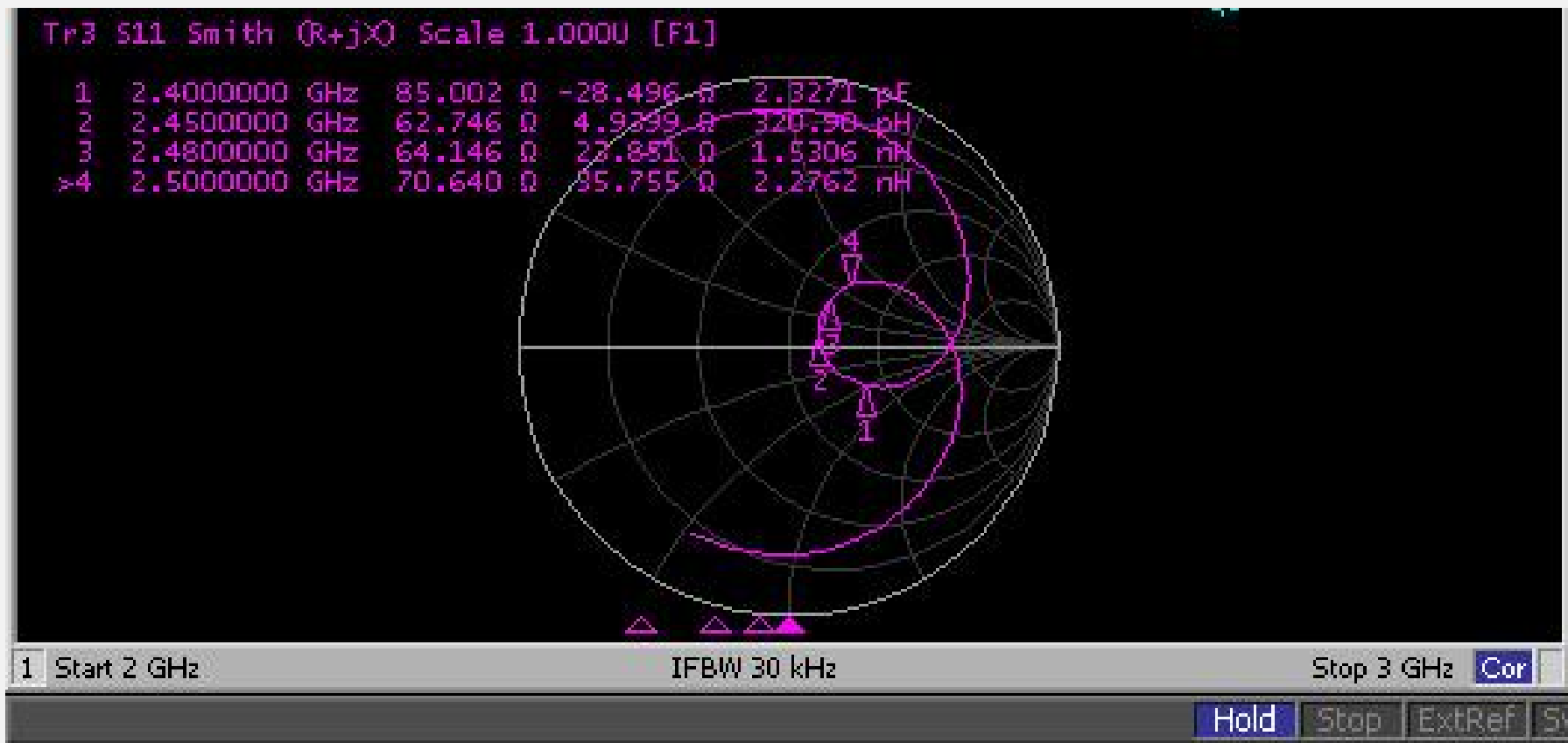
2.1 S11 Parameter-Log Mag



Frequency (MHz)	2400	2450	2480	2500
Log Mag	-7.30	-22.99	-10.87	-7.08

2. Test Result

2.1 S11 Parameter-Smith



Frequency (MHz)	2400	2450	2480	2500
Smi th(Ω)	85.00	62.74	64.14	70.64

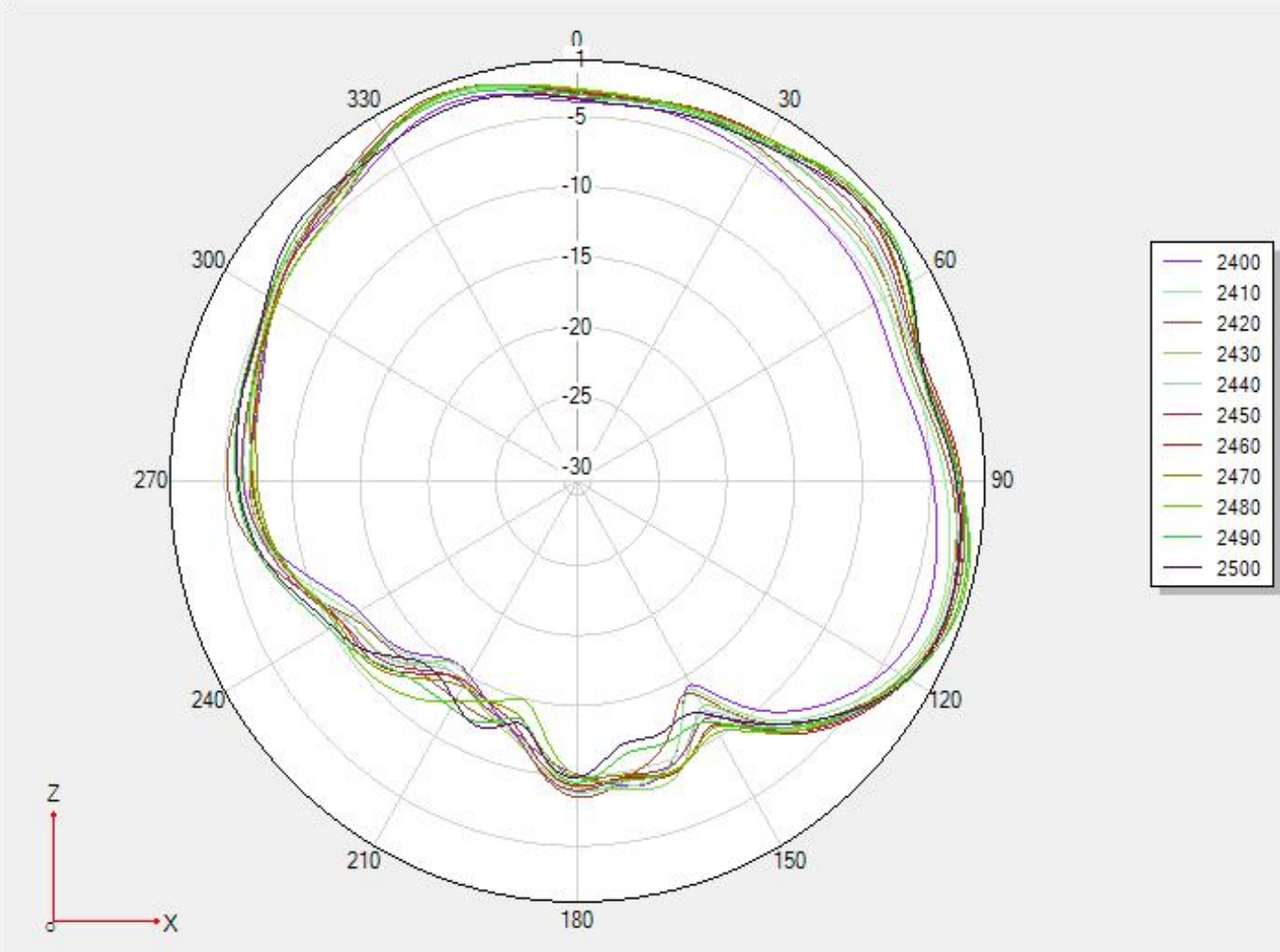
2. Test Result

2.2 Gain & Efficiency——ANT

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	30.34	0.06
2410	31.64	0.62
2420	32.55	1.01
2430	33.9	0.95
2440	33.99	1.08
2450	34.64	1.29
2460	34.09	1.39
2470	31.76	1.16
2480	30.81	1.52

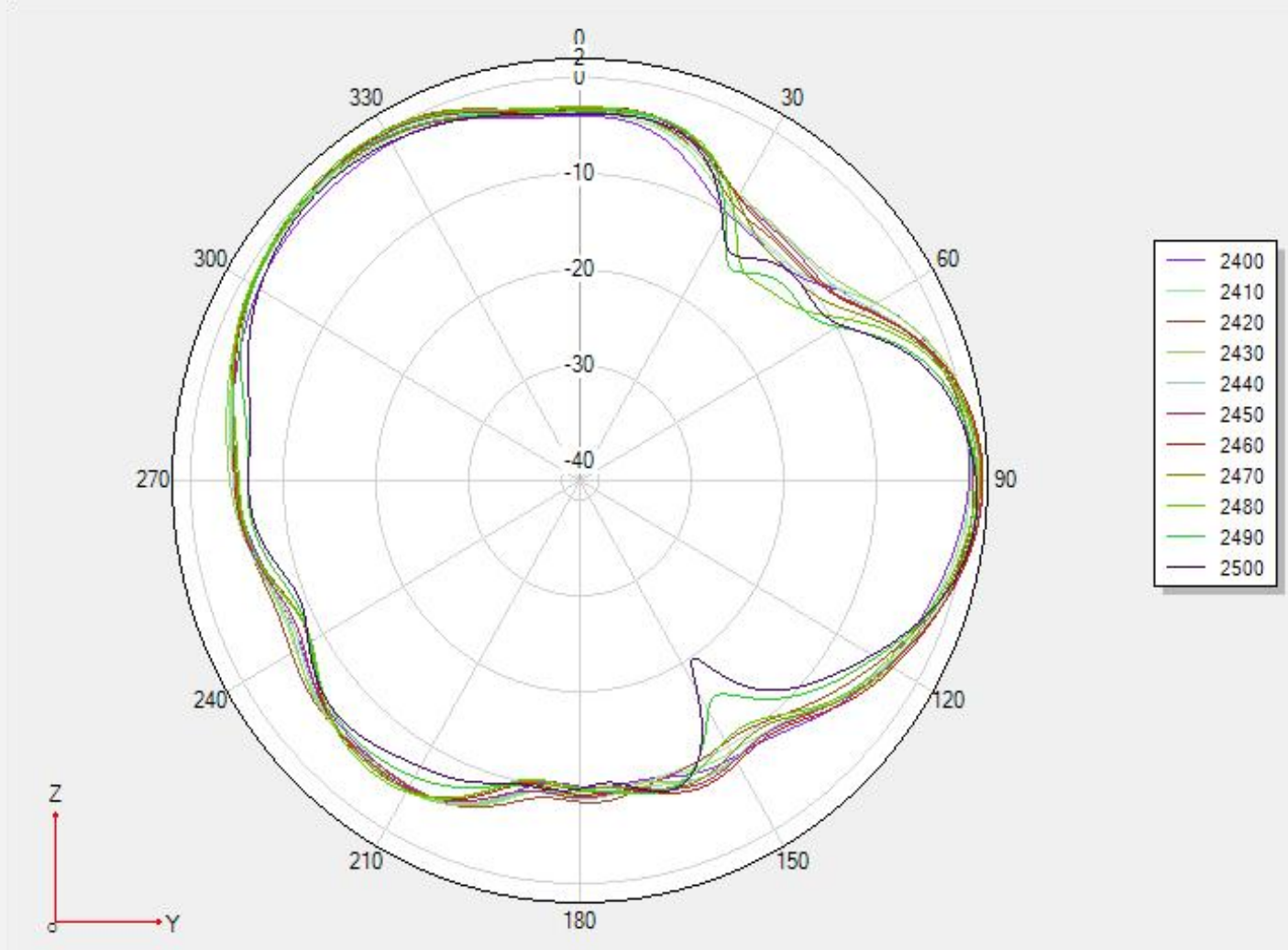
2. Test Result

2.3 2D Pattern — BT ANT



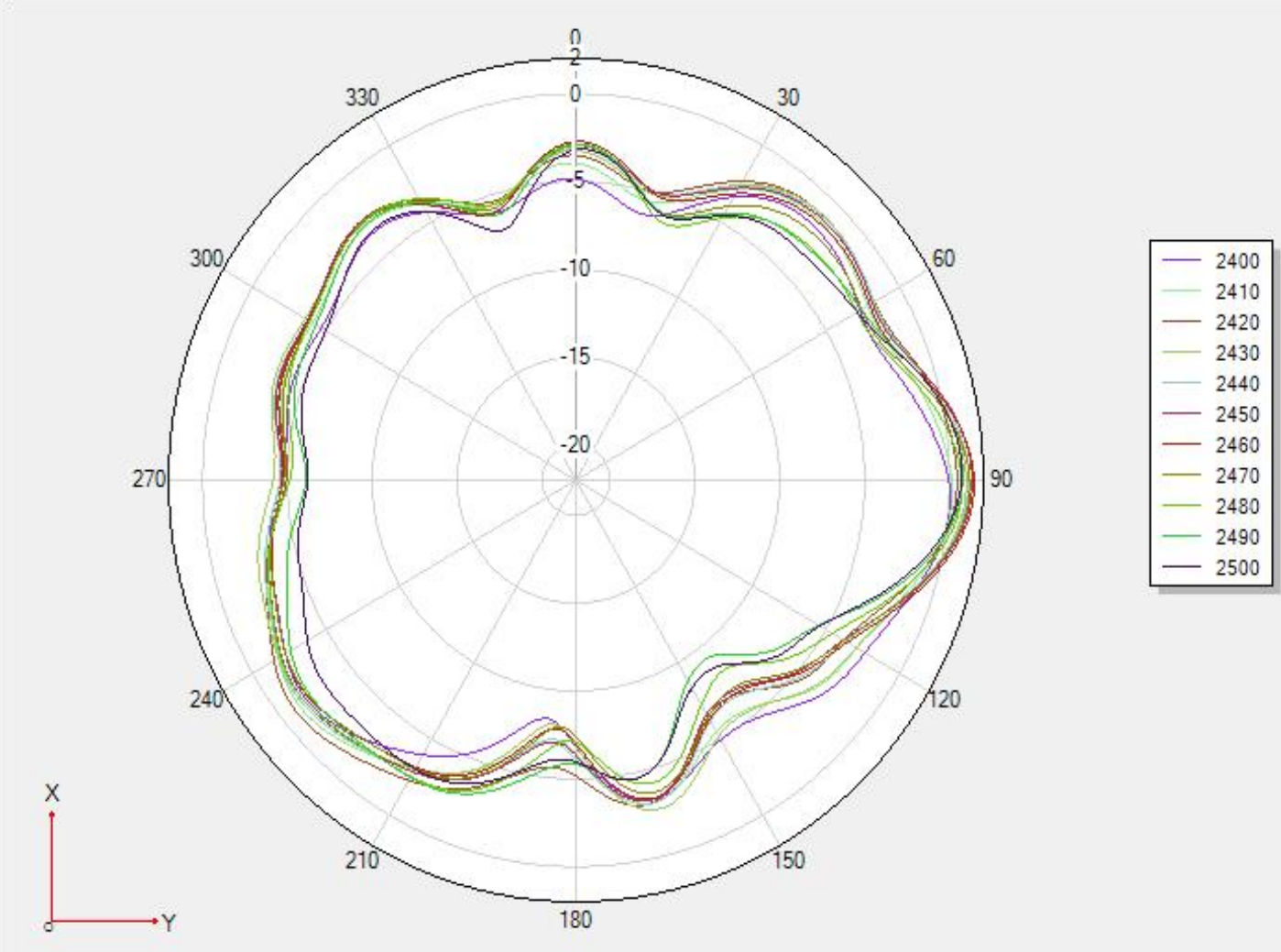
2. Test Result

2.3 2D Pattern — BT ANT



2. Test Result

2.3 2D Pattern — BT ANT

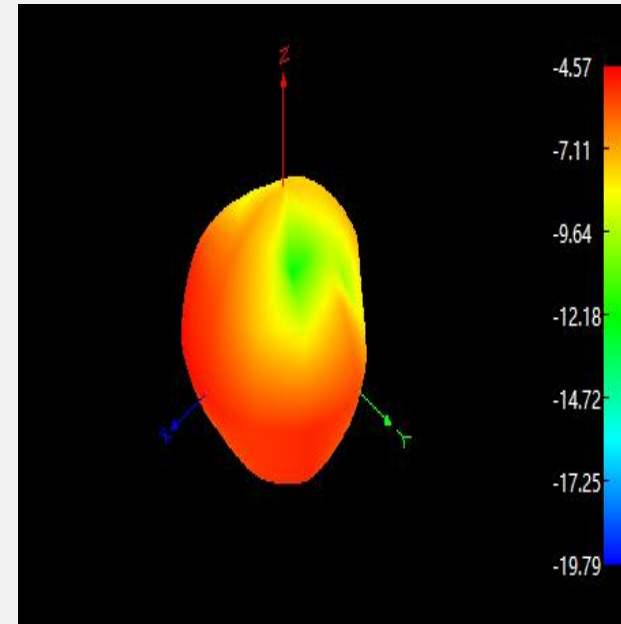
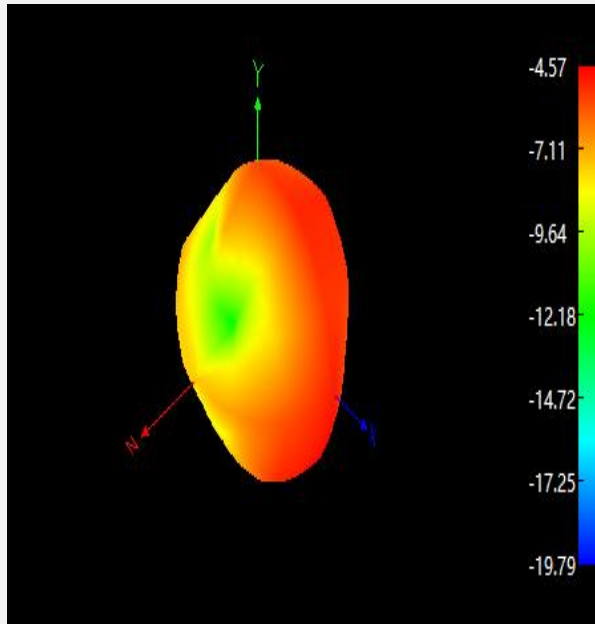
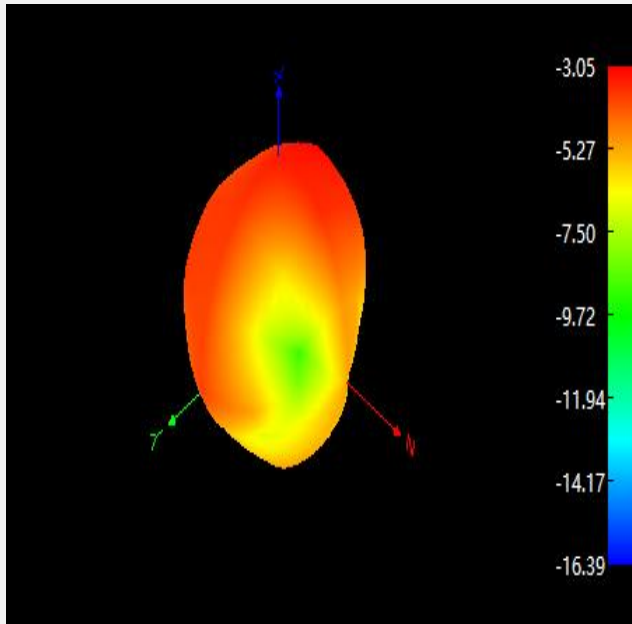


OTA Data

Test Equipment:	R&S CMW500		
Test Condition:	2D chamber		
Band	Channel	TRP(dBm)	TIS(dBm)
BT-L	0	-4.92	-78.25
	39	-5.39	-77.55
	78	-6.79	-76.58

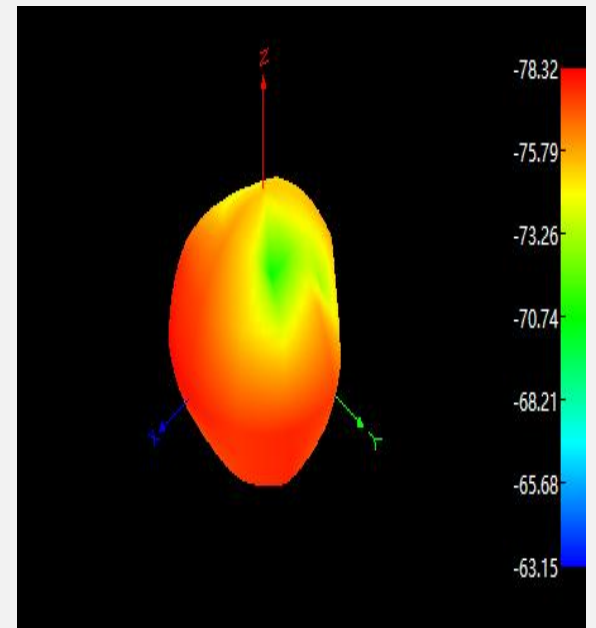
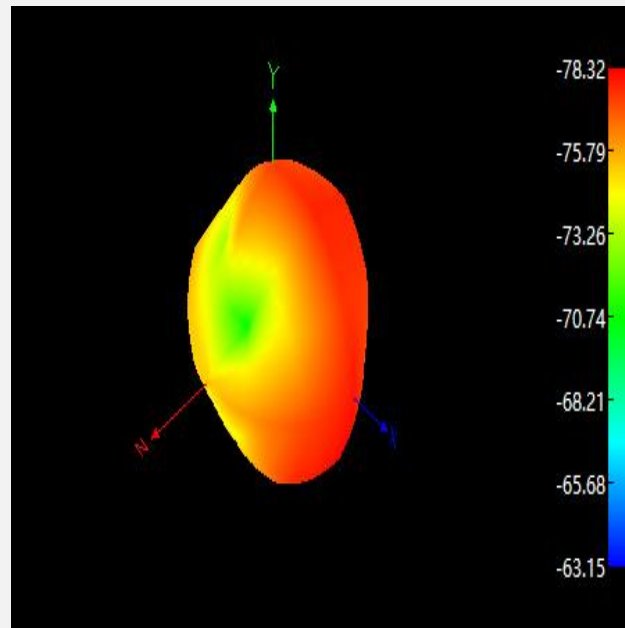
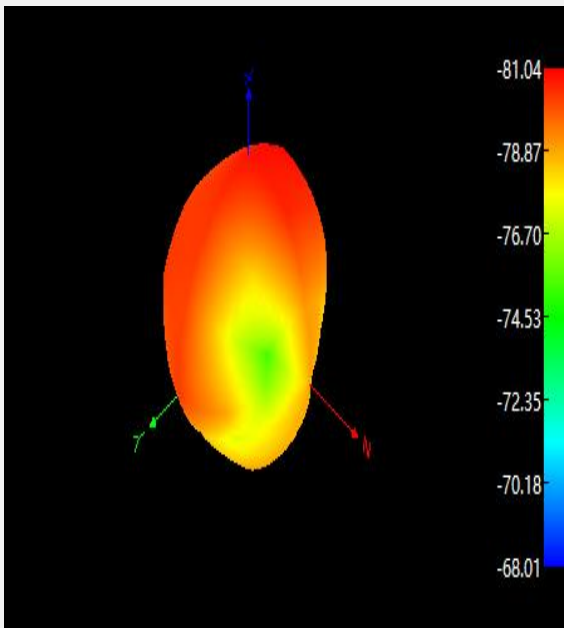
2. Test Result

2.4 2D Pattern——BT ANT

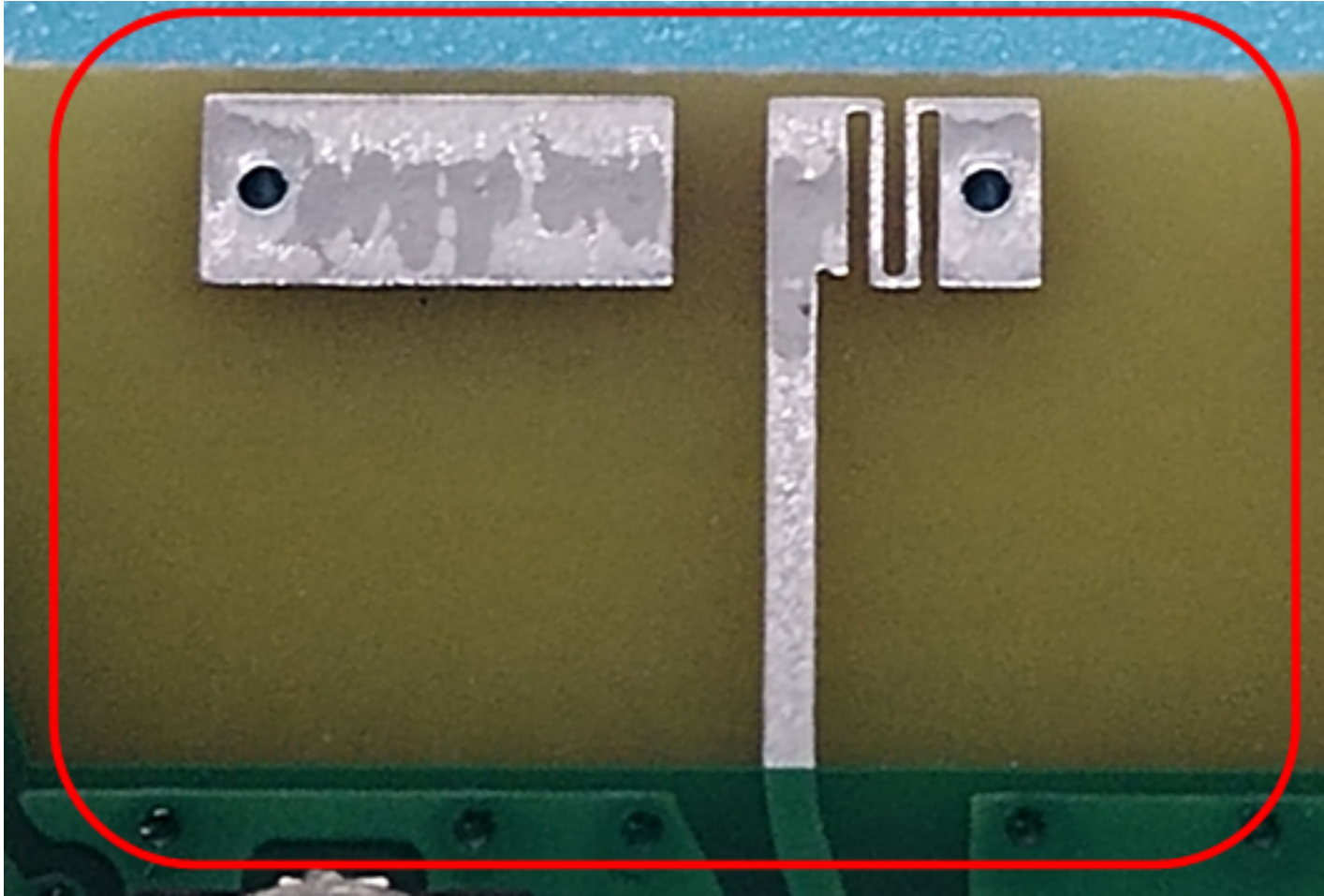


2. Test Result

2.4 2D Pattern——BT ANT



3. Antenna Photo



如有疑问请联系我们... ..

Thank you!