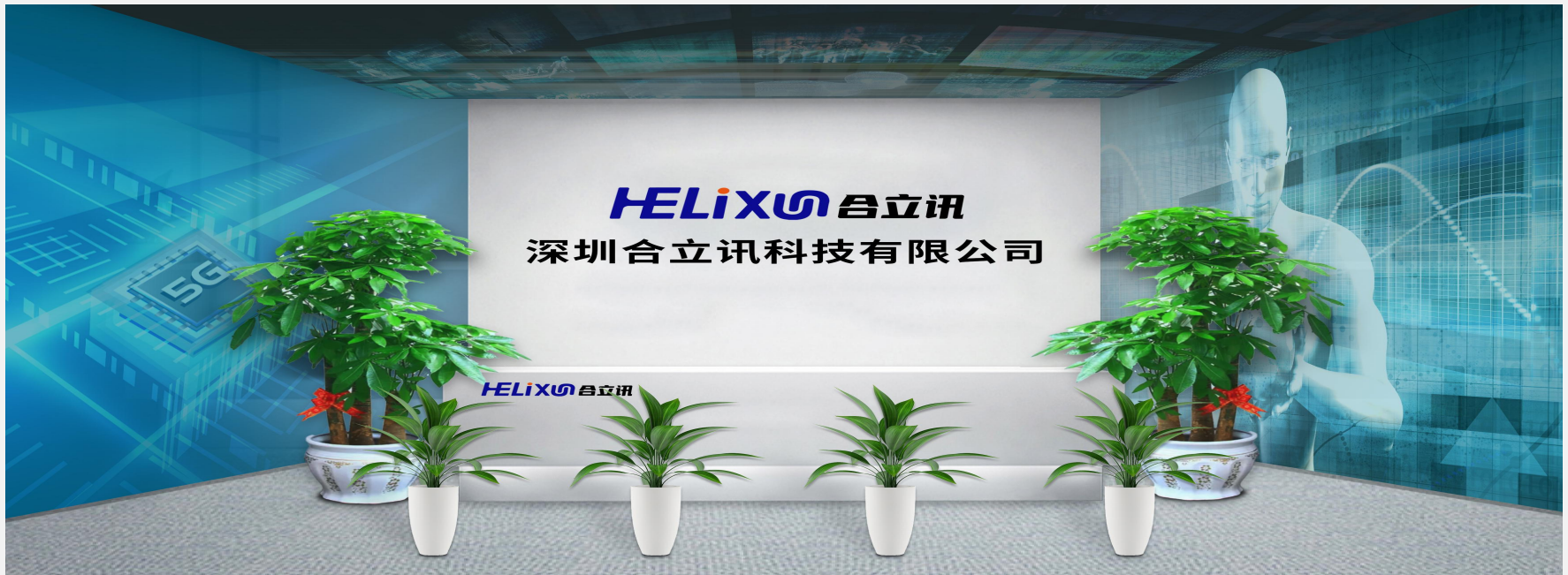


Antenna Test Report



Customer	天合芯
Project	A01
Antenna Revision	A0
Prepared by	15993920520
Checked by	15993920520
Date:	2023. 04. 15

Purpose

This report is to measure the performance of antenna for **A01** The antenna operating frequency at 2400-2500MHz, All test data are showed as below.

Content

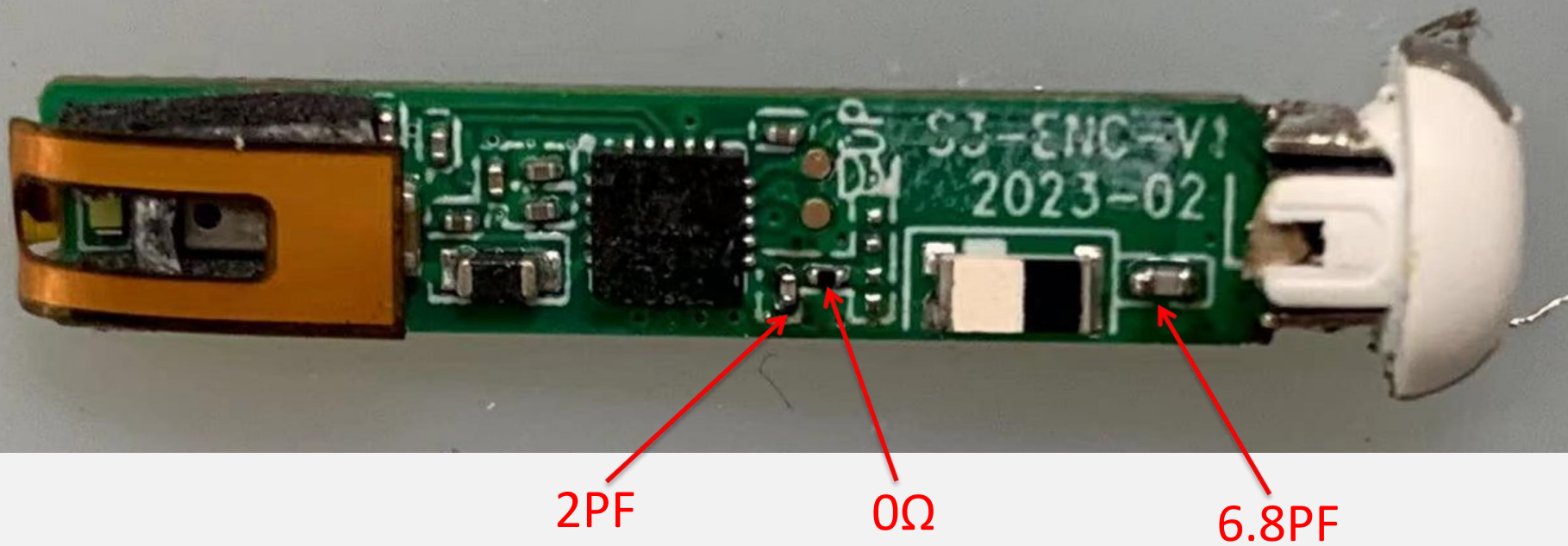
1. est system
- 2.Product Overview Dimension
3. Test Result
 - 3.1 S11 Parameter
 - 3.2 Gain & Efficiency
 - 3.3 2D Pattern
- 4 .1 OTA

1. 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

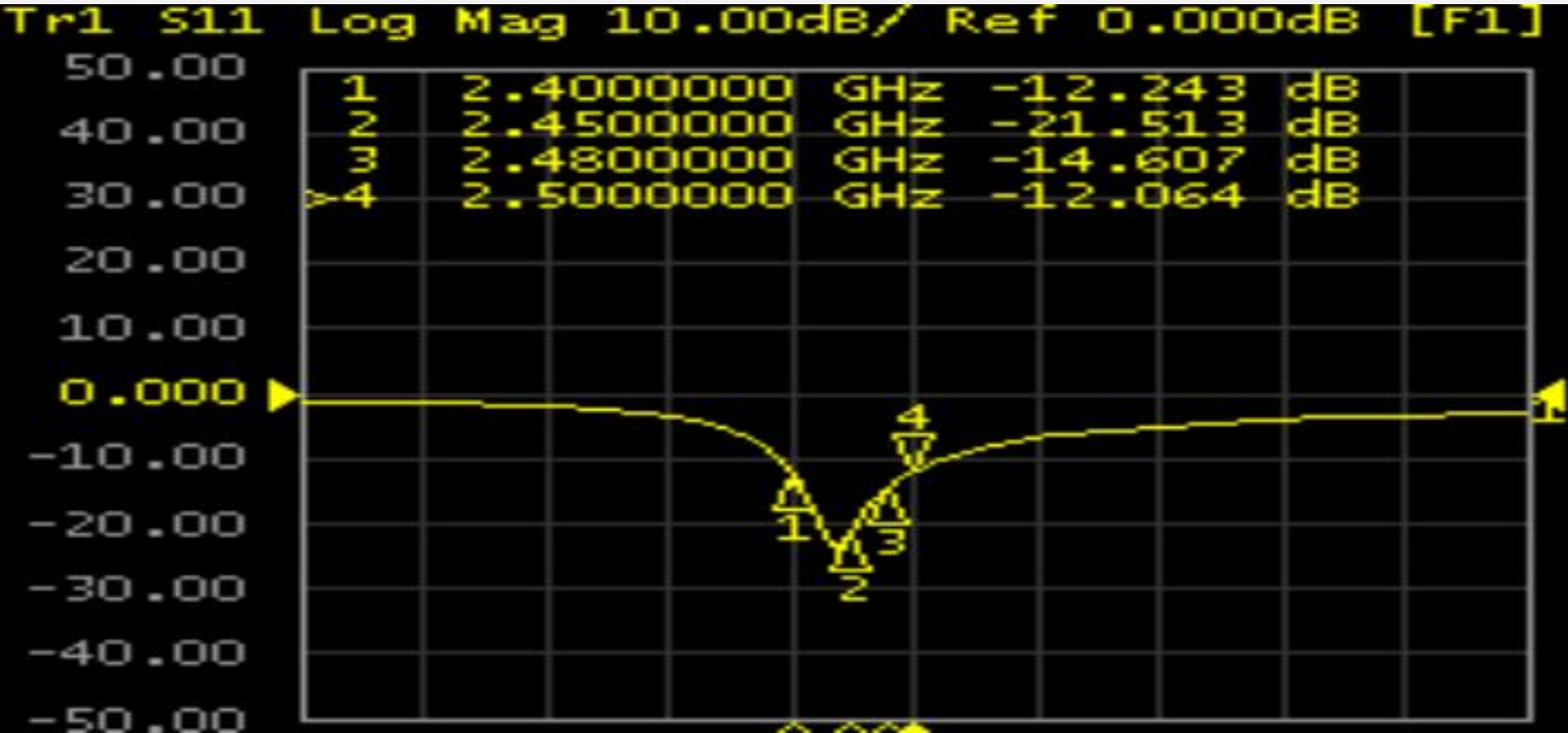


2.Product Overview & Dimension



3. Test Result

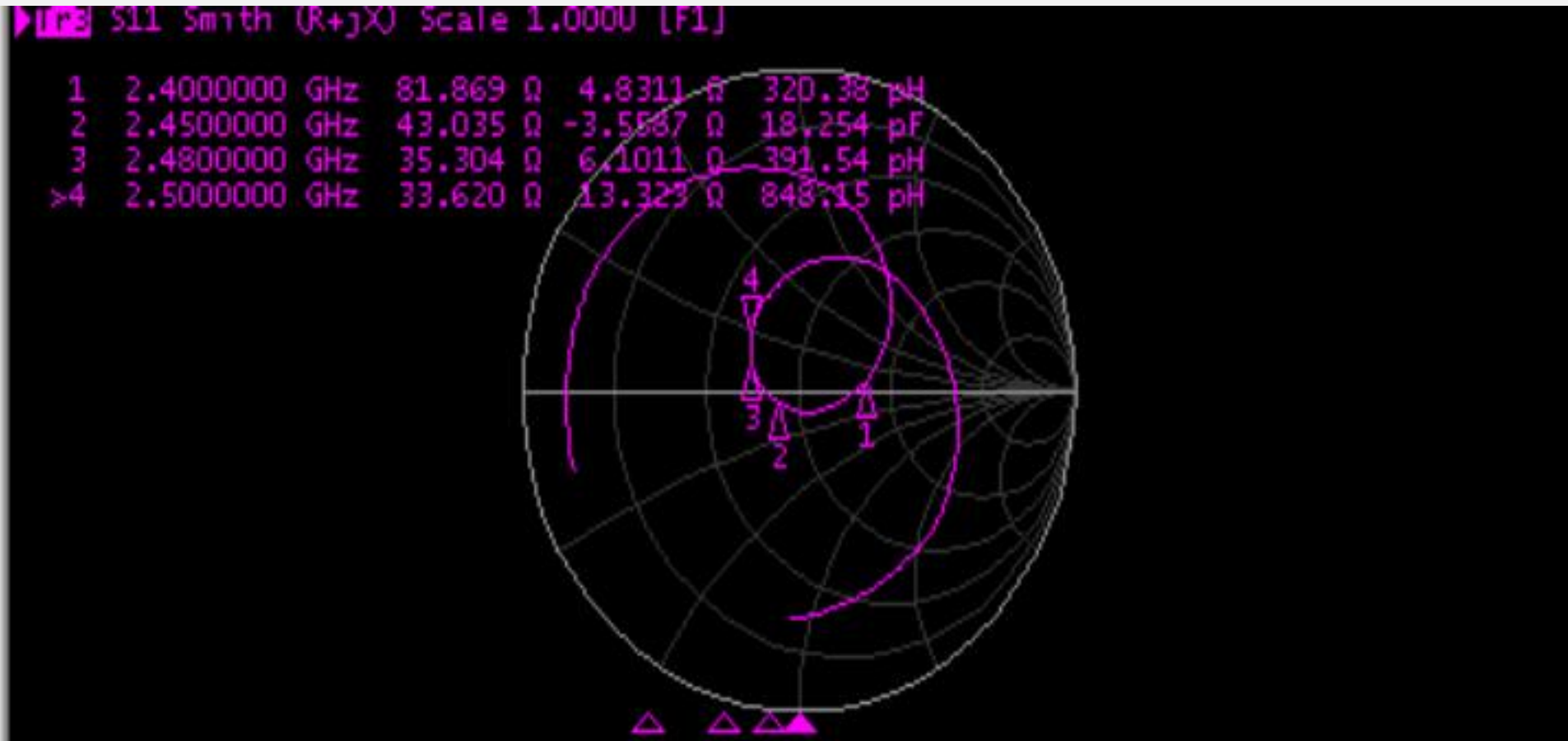
3.1 S11 Parameter-Log Mag



Frequency (MHz)	2400	2450	2480	2500
Log Mag	-12.24	-21.51	-14.60	-12.06

3.Test Result

3.1 S11 Parameter-Smith



Frequency (MHz)	2400	2450	2480	2500
Smith(Ω)	81.86	43.05	35.30	33.62

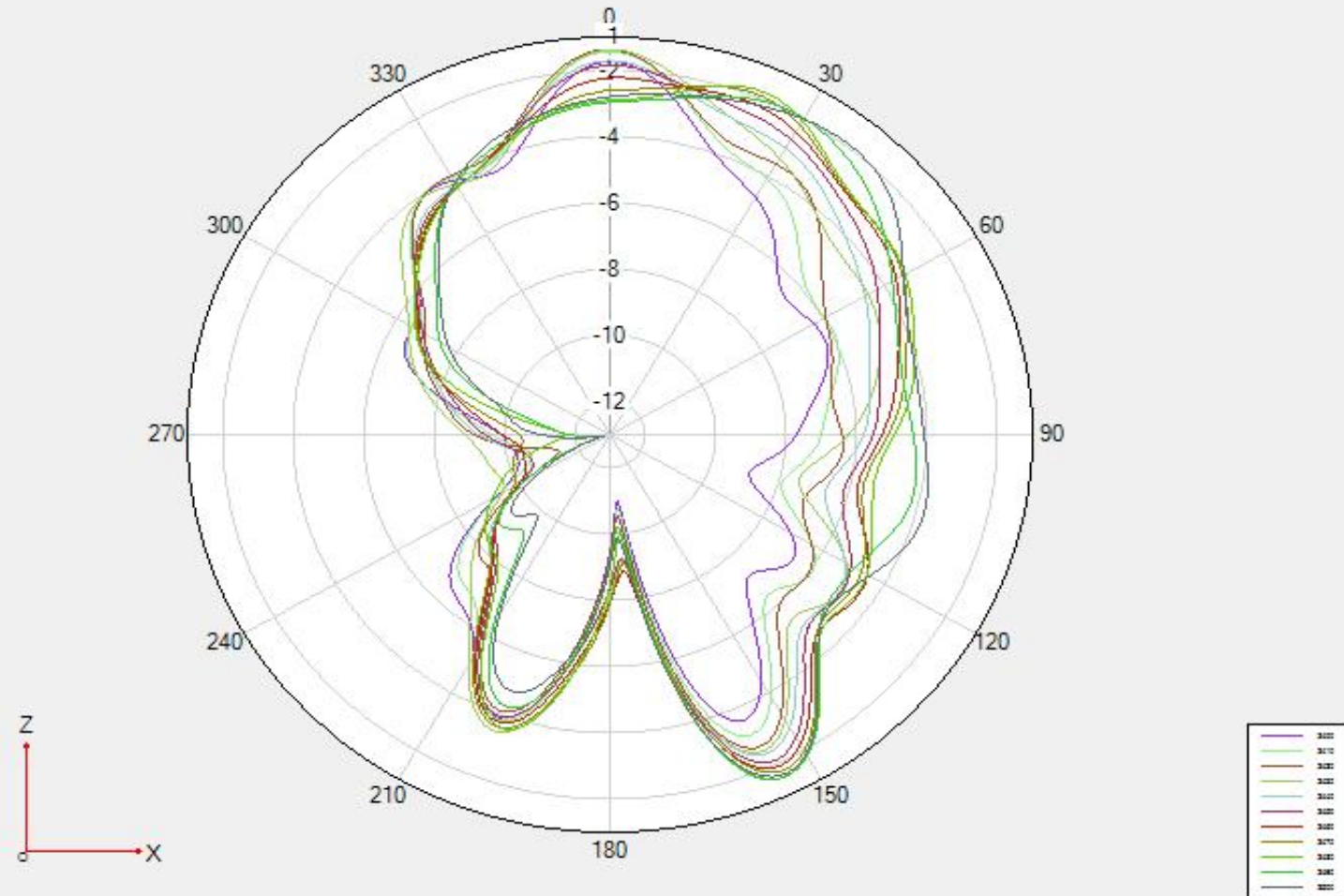
3. Test Result

3.2 Gain & Efficiency——**ANT**

Frequency (MHz)	Efficiency (%)	Max GAIN (dBi)
2400	19.5	-1.69
2410	21.23	-1.41
2420	22.7	-1.37
2430	22.86	-1.35
2440	23.6	-1.41
2450	23.6	-1.17
2460	23.5	-0.97
2470	23.88	-0.93
2480	24.15	-0.93
2490	24.6	-0.87
2500	23.88	-0.89

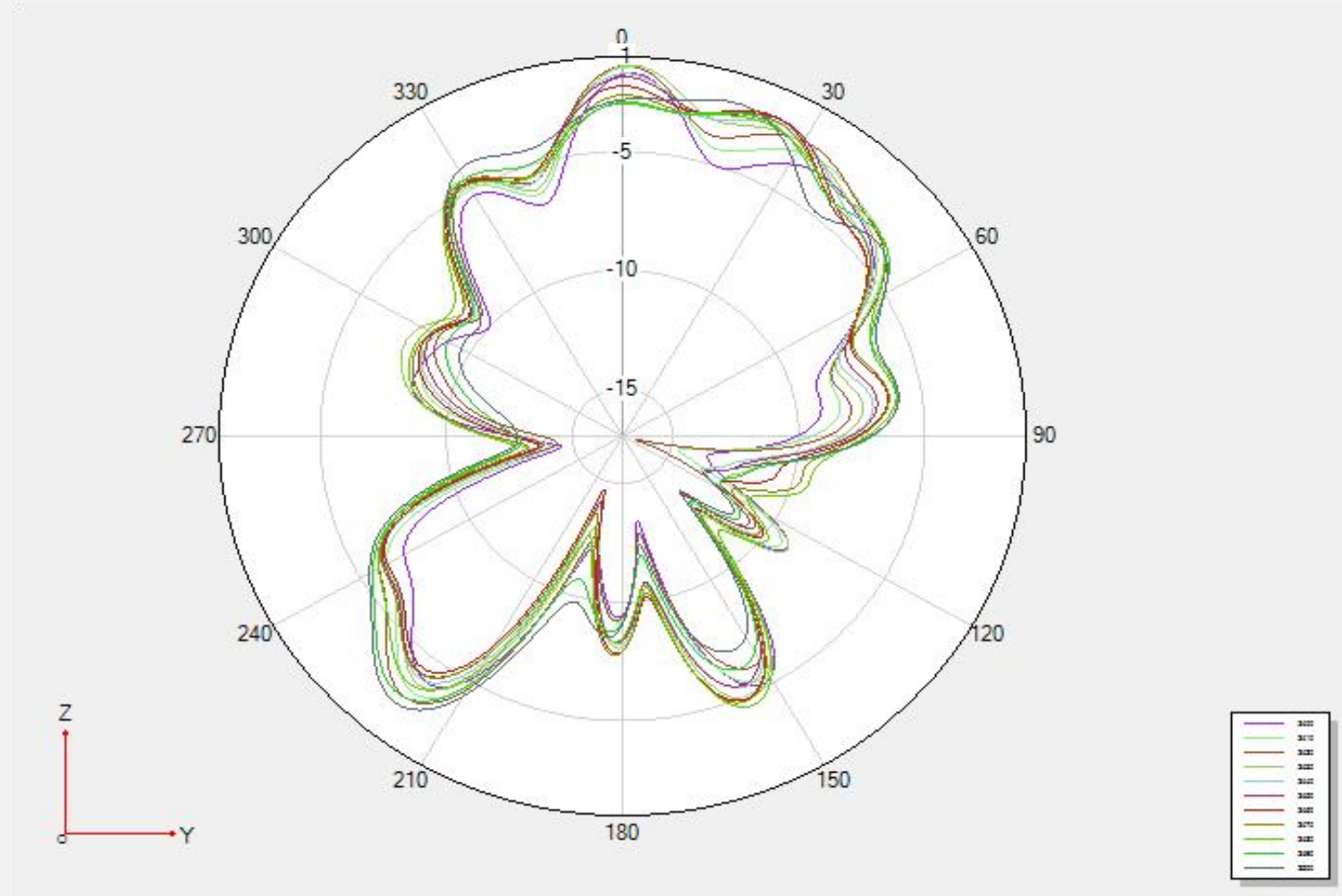
3. Test Result

3.3 2D Pattern—BT ANT



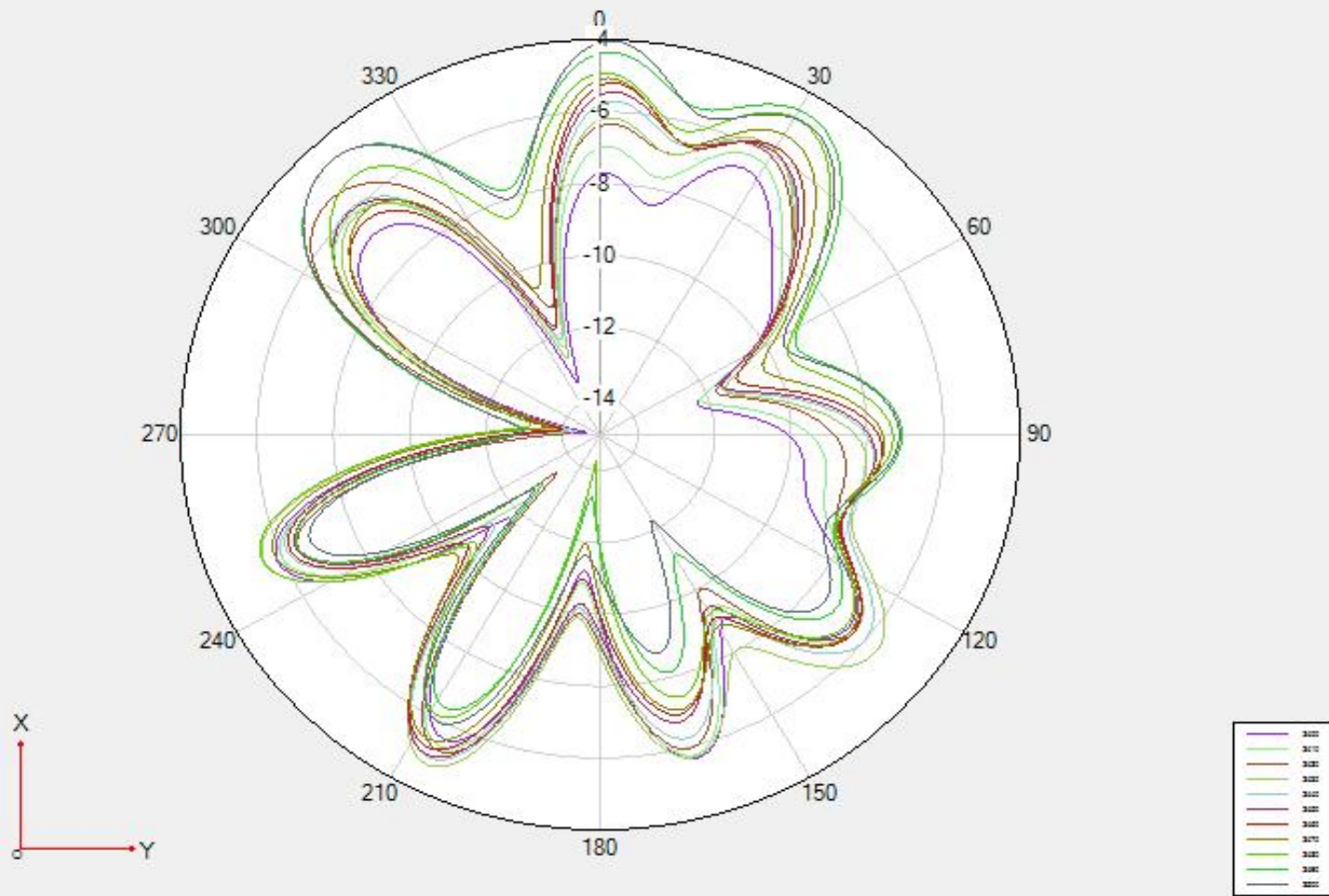
3. Test Result

3.3 2D Pattern — BT ANT



3. Test Result

3.3 2D Pattern — BT ANT

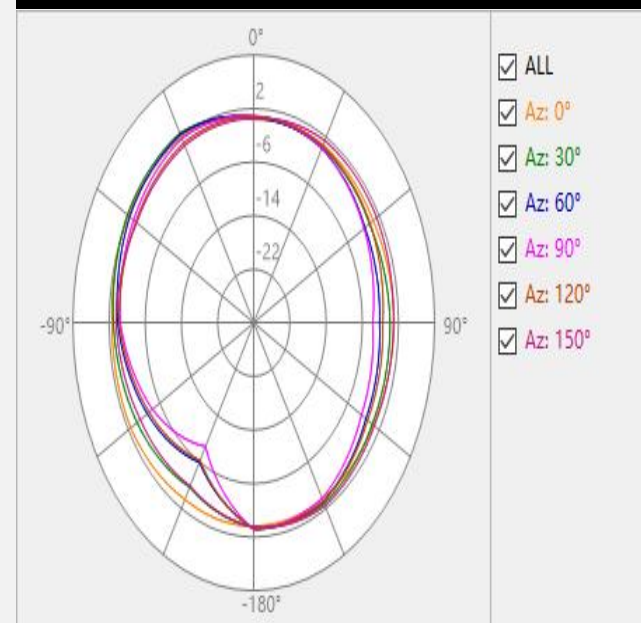
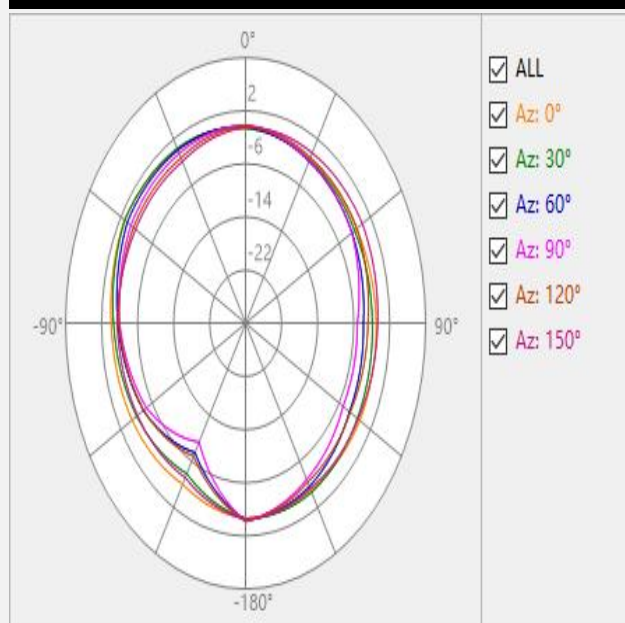
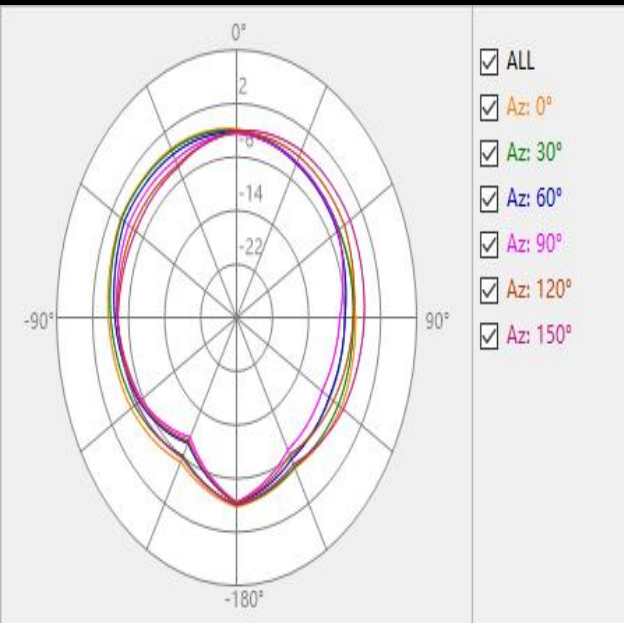
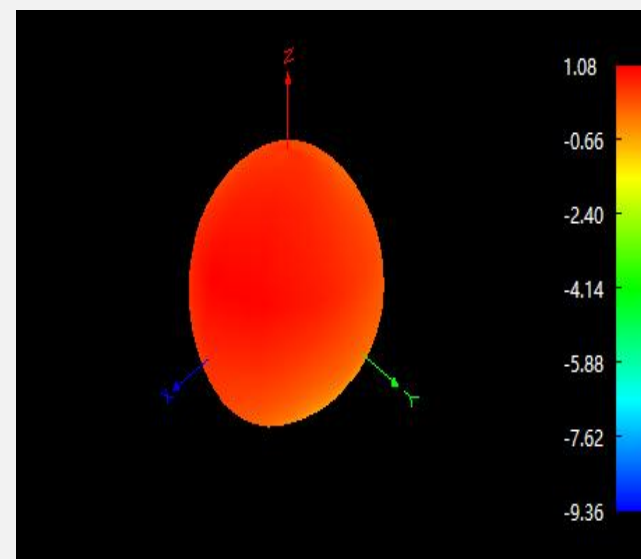
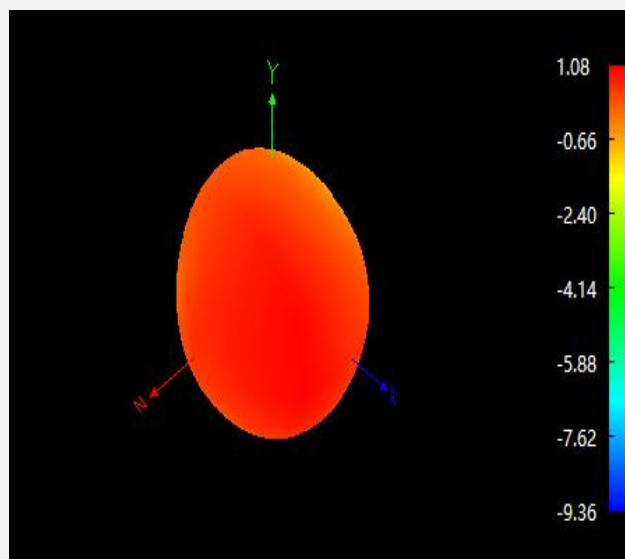
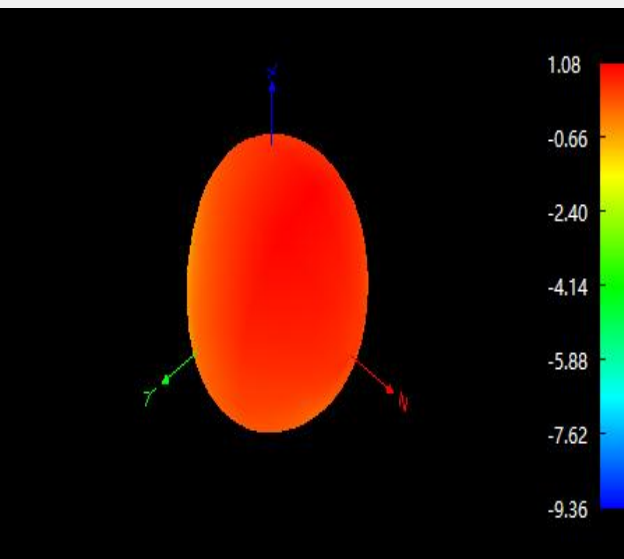


OTA Data

Test Equipment:	R&S CMW500			
Test Condition:	3D chamber			
Band		Channel	TRP(dBm)	TIS(dBm)
BT	L	0	-1.25	-80.38
		39	0.96	-81.98
		78	0.75	-81.66

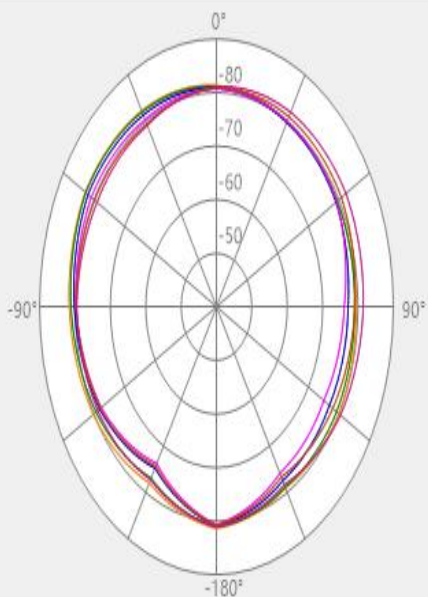
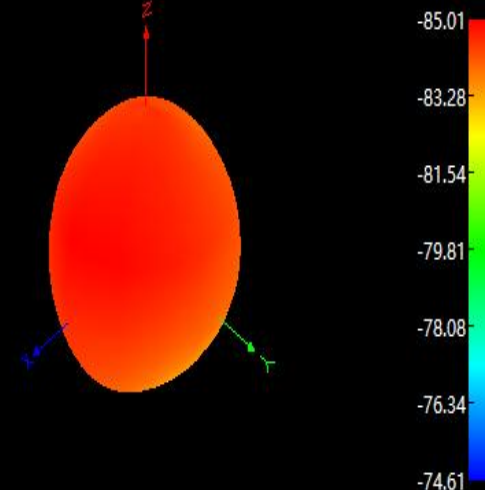
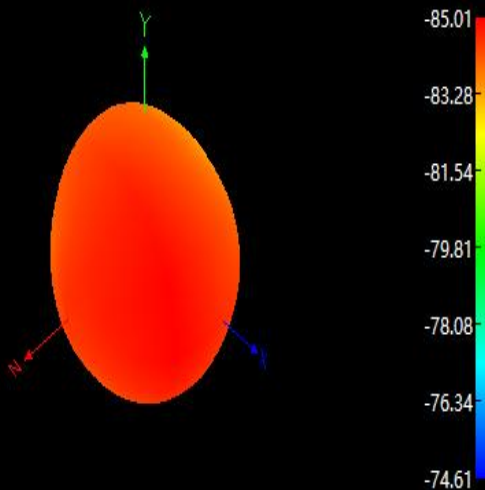
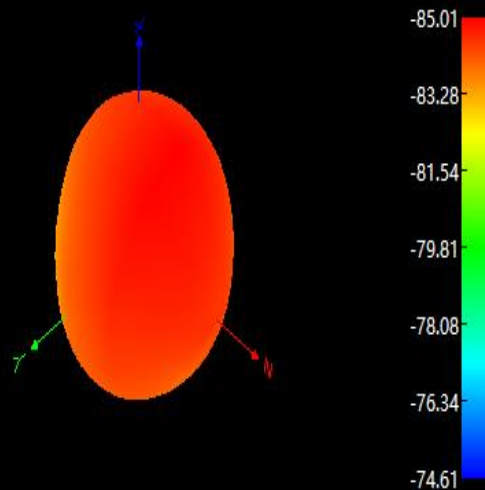
3. Test

Result

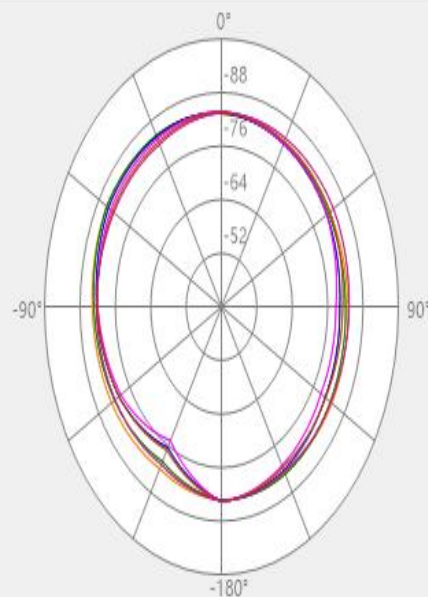


3. Test

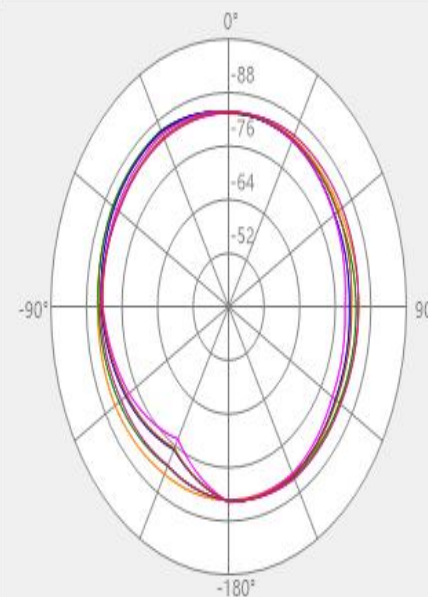
Result



- ☒ ALL
- ☒ Az: 0°
- ☒ Az: 30°
- ☒ Az: 60°
- ☒ Az: 90°
- ☒ Az: 120°
- ☒ Az: 150°



- ☒ ALL
- ☒ Az: 0°
- ☒ Az: 30°
- ☒ Az: 60°
- ☒ Az: 90°
- ☒ Az: 120°
- ☒ Az: 150°



- ☒ ALL
- ☒ Az: 0°
- ☒ Az: 30°
- ☒ Az: 60°
- ☒ Az: 90°
- ☒ Az: 120°
- ☒ Az: 150°

Thank you!