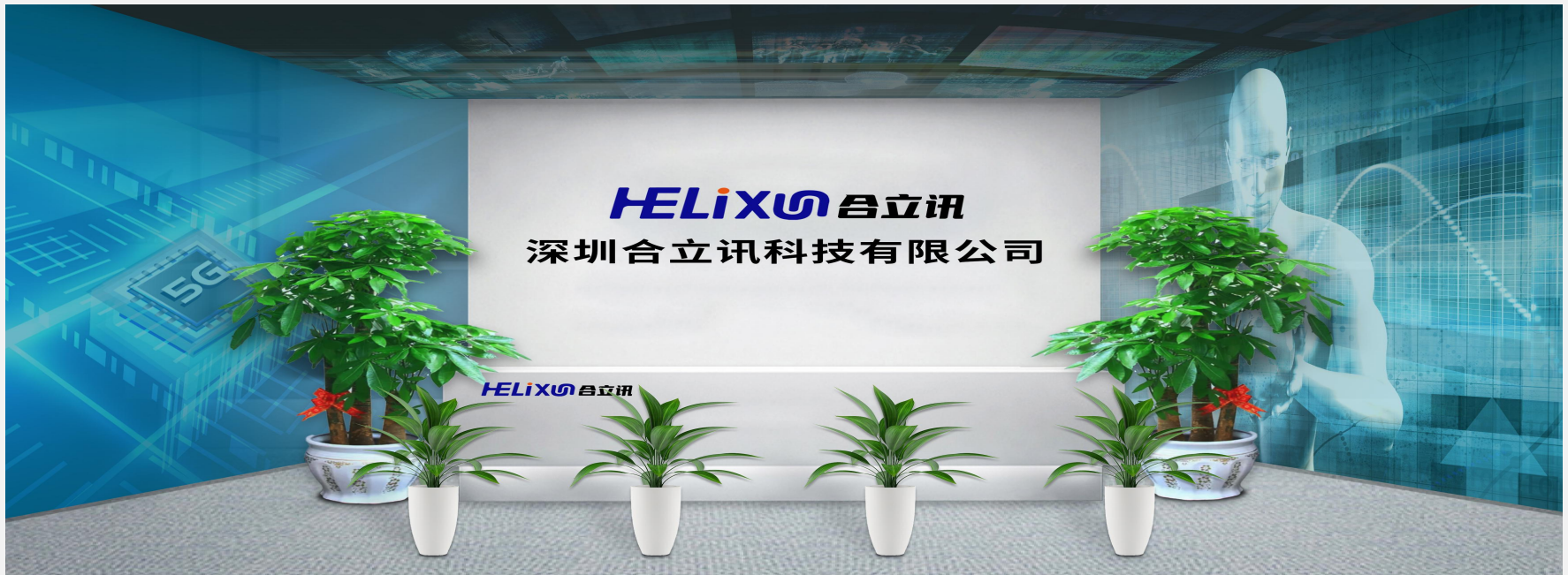


Antenna Test Report



Corporate name	Shenzhen Helixun Technology Co., Ltd.
Project	I13Q
Antenna Revision	A0
Prepared by	15993920520
Checked by	17279710721
Date	2024. 5. 8

Purpose

This report is to measure the performance of antenna for **I13** The antenna operating frequency at 2400-2500MHz, All test data are showed as below.

Content

1.Test system

2.Product Overview & Dimension

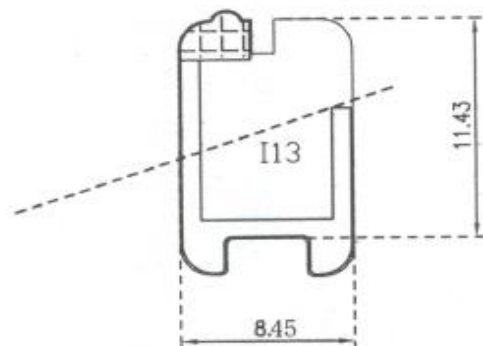
2.1 Test Result VSWR&Log Mag&Smith(Ω)

3.Test Result

3.1 Gain & Efficiency

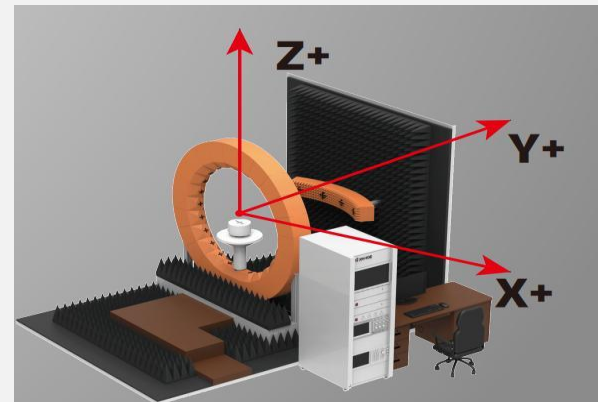
3.2 2D Pattern

Size : Unit:mm



1. Test System

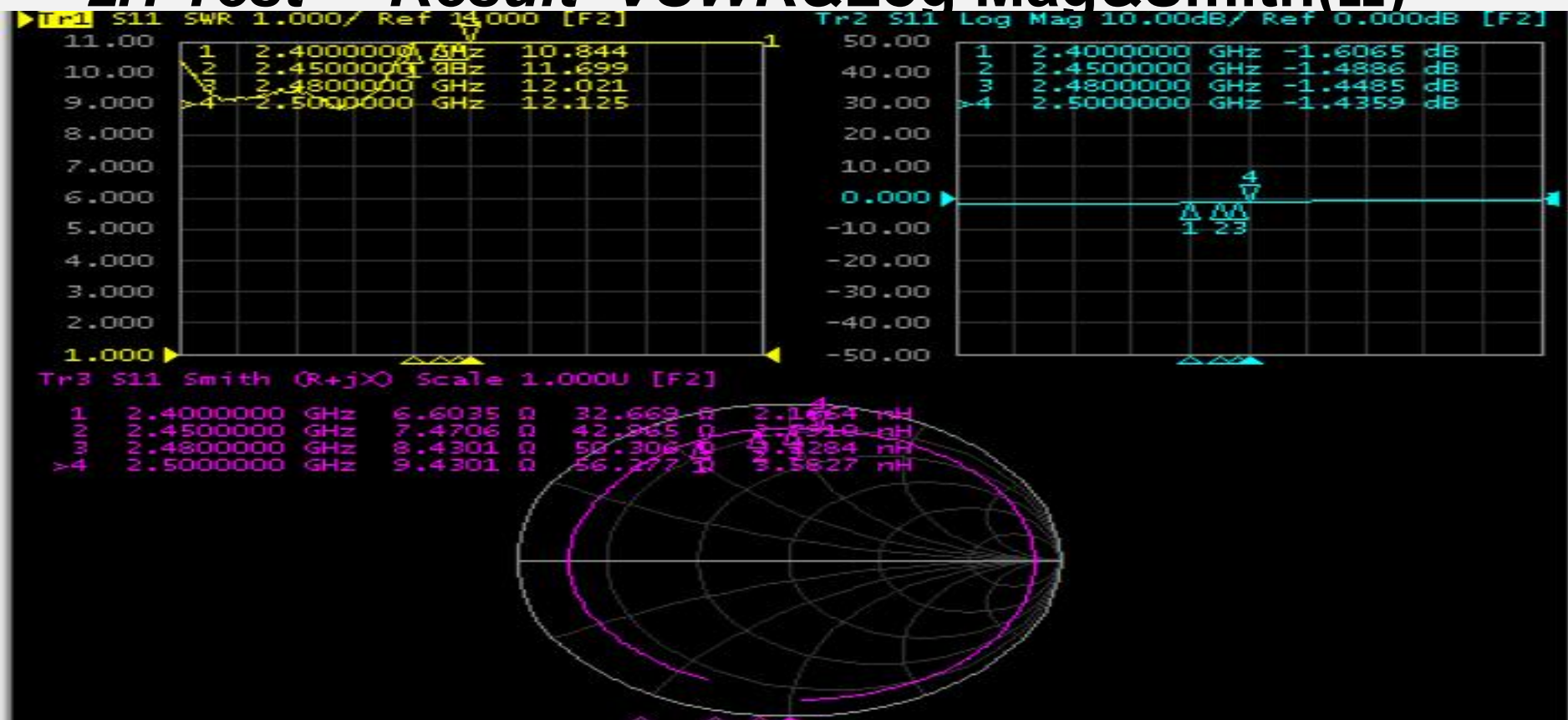
Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5071B
OTA Test	TRP&TIS	Agilent 8960 & CMW500 STIMO
Gain & Efficiency	Gain & Efficiency	SATIMO Agilent 5071C



2. Product Overview & Dimension



2.1 Test Result VSWR&Log Mag&Smith(Ω)



Frequency (MHz)	2400	2450	2480	2500
VSWR	10.84	11.69	12.02	12.12
Log Mag	-1.60	-1.48	-1.44	-1.43
Smith(Ω)	6.60	7.47	8.43	9.43

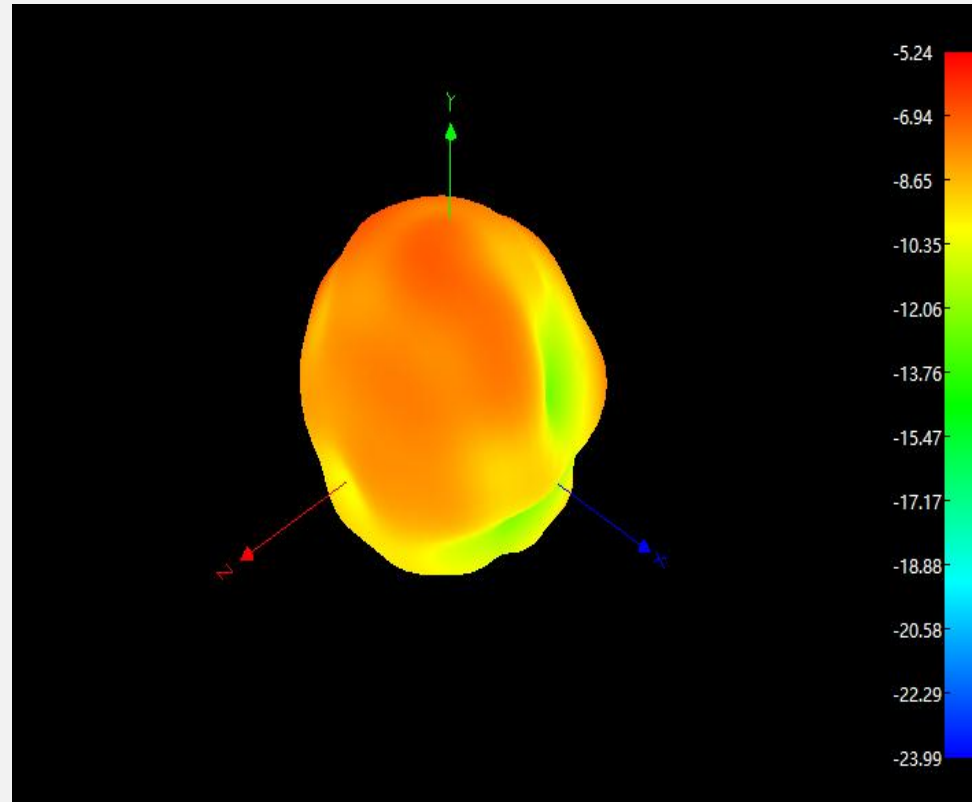
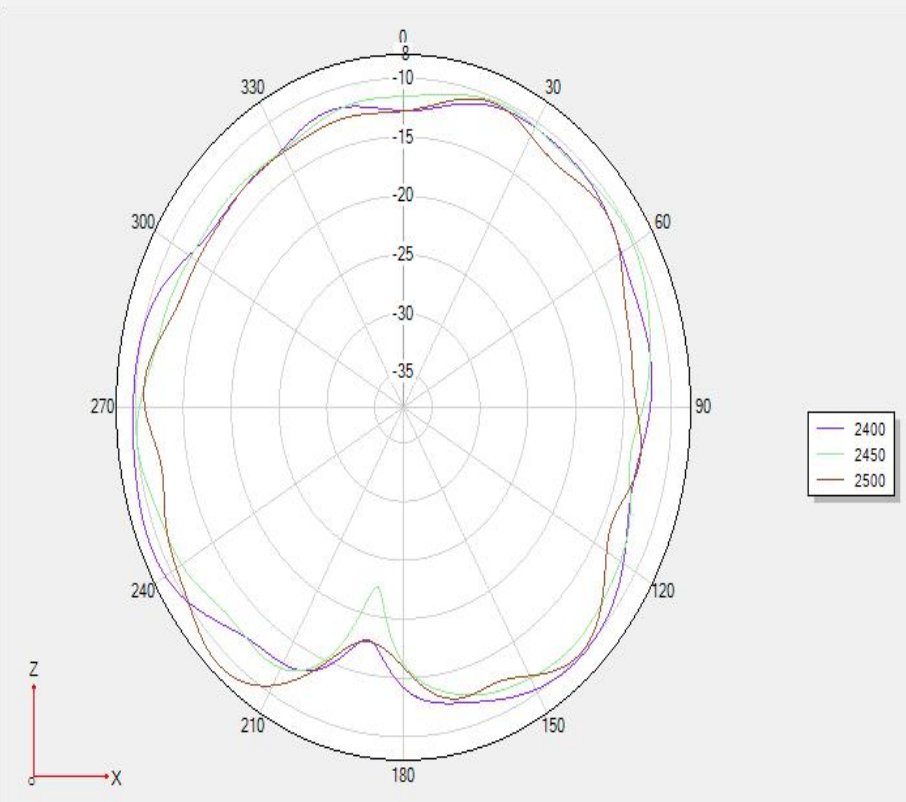
3. Test Result

3.1 Gain & Efficiency

Frequency (MHz)	Efficiency (%)	Max GAIN (dBi)
2400	7.66	-5.24
2410	6.79	-5.43
2420	6.93	-5.24
2430	7.29	-5.35
2440	6.38	-5.84
2450	7.60	-4.96
2460	7.21	-5.04
2470	7.35	-4.87
2480	6.84	-4.80
2490	8.11	-4.58
2500	6.85	-5.11

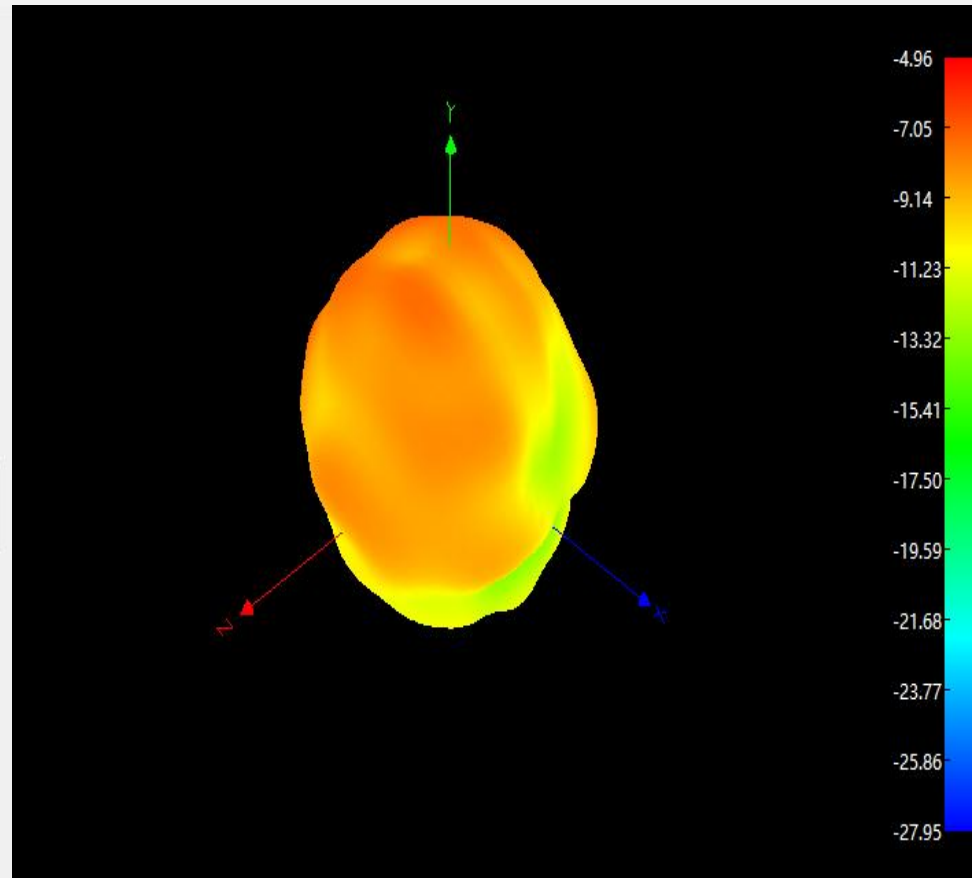
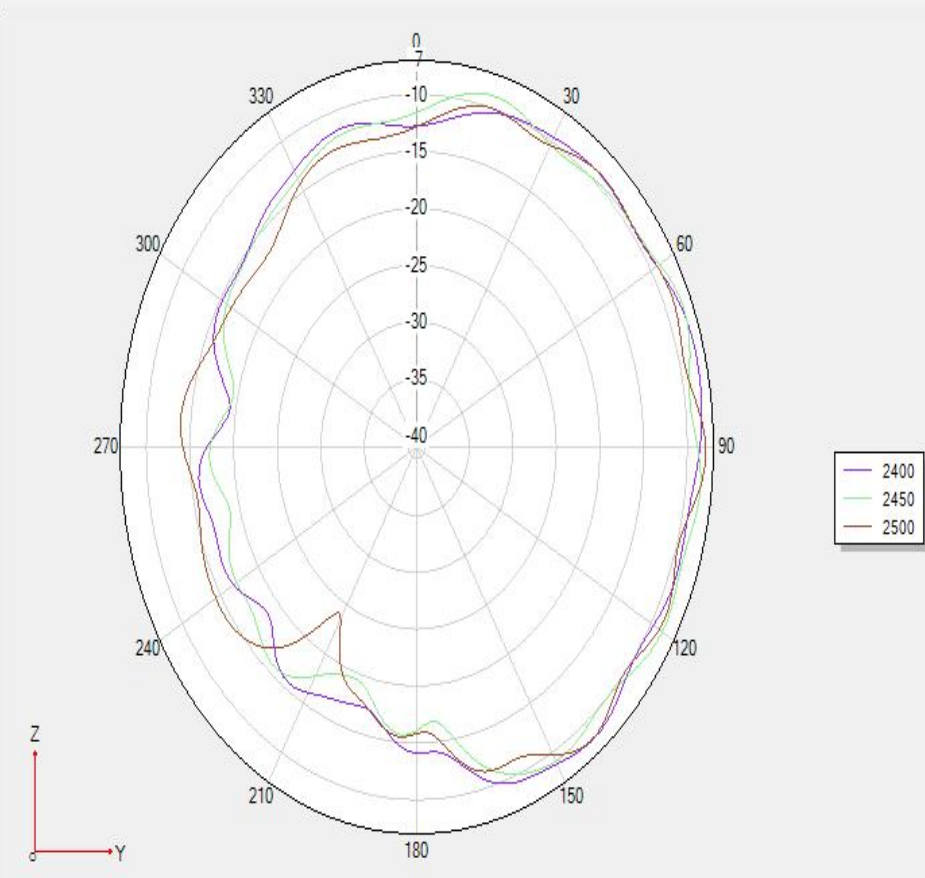
3. Test Result

3.2 2D Pattern



3. Test Result

3.2 2D Pattern



3. Test Result

3.2 2D Pattern

