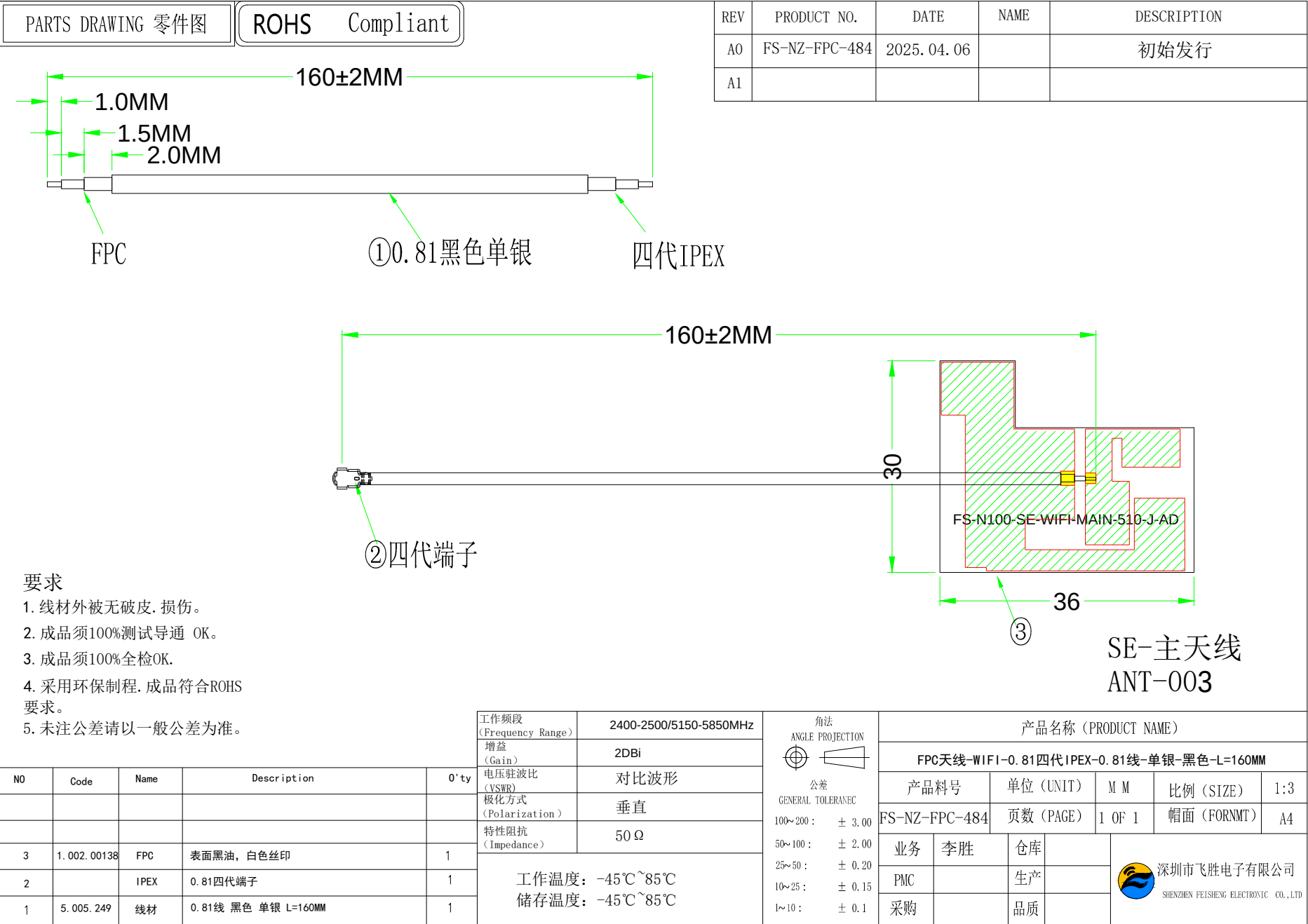
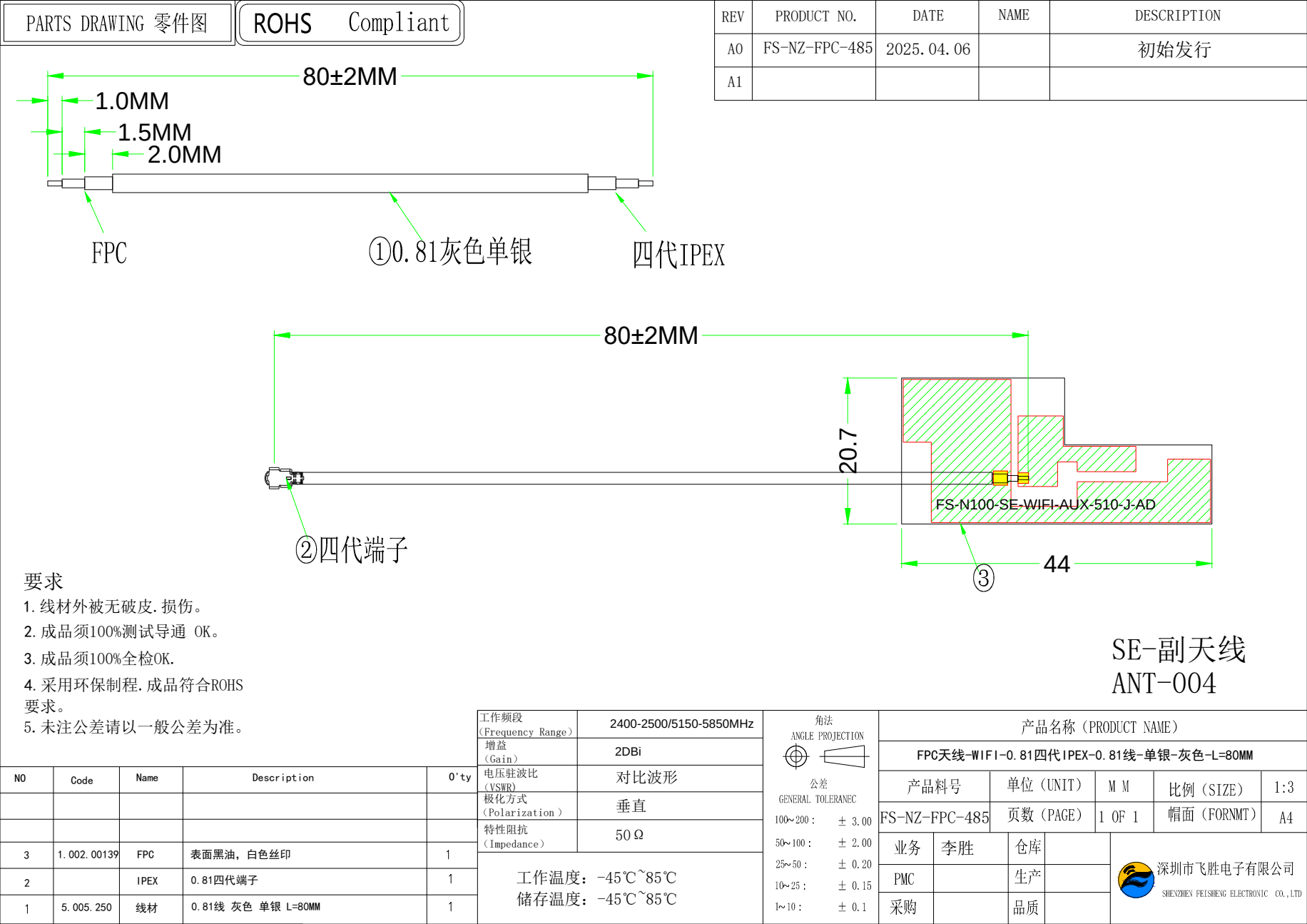






Passive antenna report

Manufacturer: Shenzhen Feisheng Electronics Co., Ltd.

Project: N100-SE

Antenna modification: A3

Preparation of Engineering: Xi.Guo

Reviewer: Xi.Guo

Date: 2024.10.29

目录:

This report is a debugging of the performance of **N100-SE**, with the antenna operating frequency as the Main Antenna
focus: **2400-2500MHz , 5150-5850MHz** Sub: **2400-2500MHz , 5150-5850MHz**

Test the content;

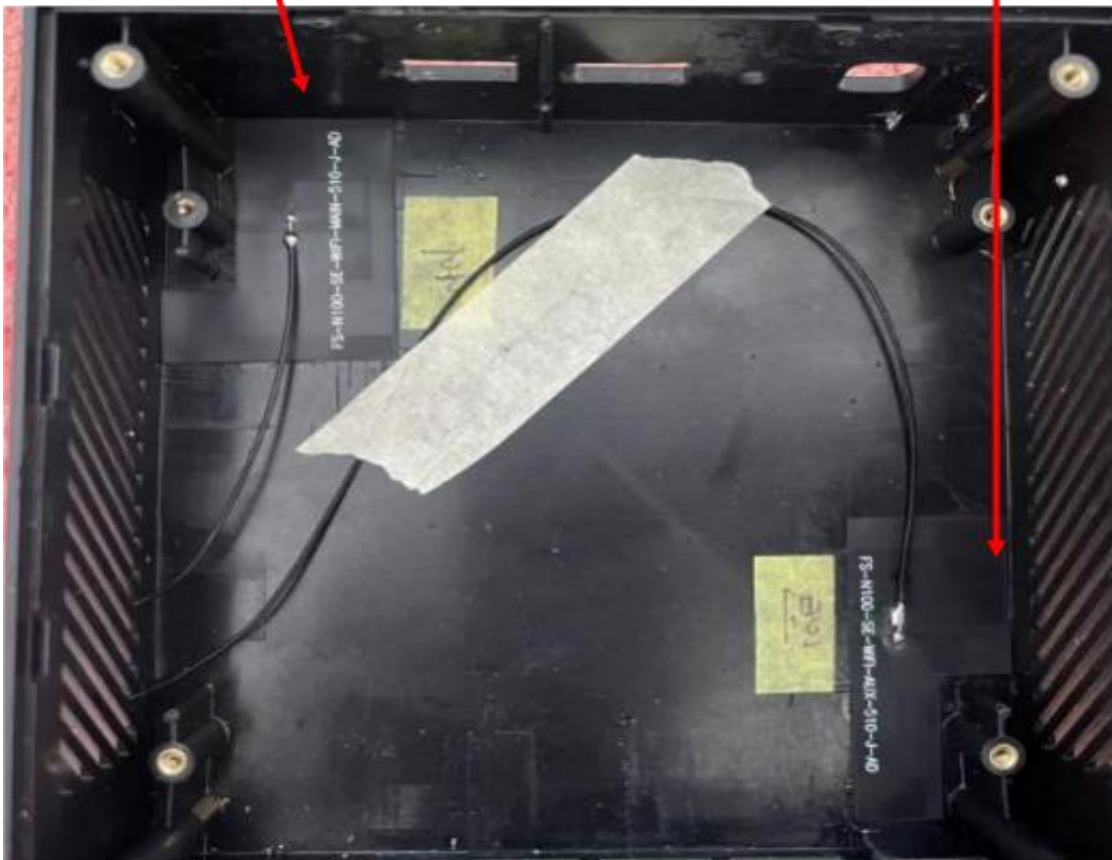
- 1、Product graphics
- 2、Testing System
- 3、Antenna matching
- 4、Test results of antenna
 - 4.1 S11 Parameters - Main Antenna Antenna
 - 4.2 Efficiency Gain - Main Antenna Antenna
 - 4.3 2D & 3D Radiation Patterns – Main Antenna
- 5、Test results of antenna
 - 5.1 S11 Parameters -Sub Antenna
 - 5.2 Efficiency Gain -Sub antenna
 - 5.3 2D & 3D Radiation Patterns – Sub Antenna

1、 Product graphics



Main Antenna

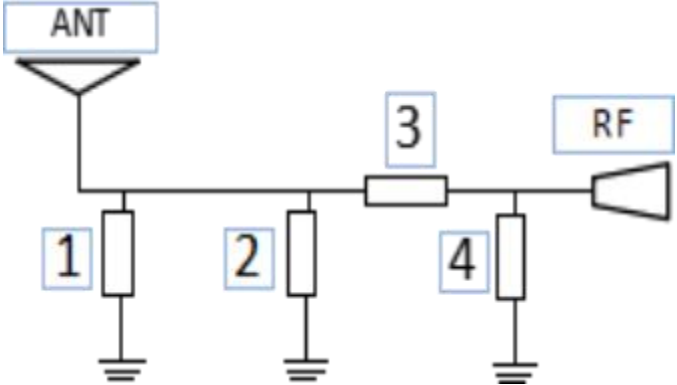
Sub Antenna



2、Testing System

Serial Number	testing instrument
S11 Parameter	Agilent 5071B
OTA Test	Agilent 5071B &CMW500 & Agilent 8960 & eitu darkroom
Gain and efficiency	Agilent 5071B &eitu darkroom

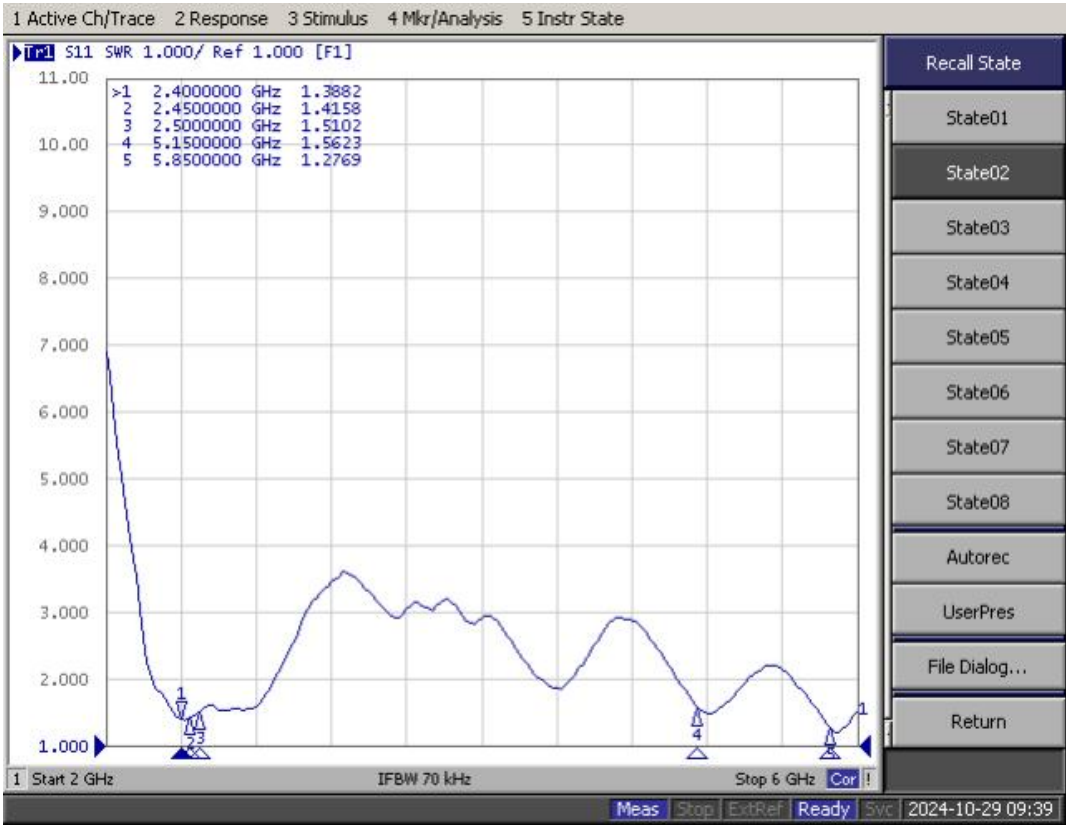
3、Antenna matching



serial	capacitance	inductance
1	N/A	N/A
2	N/A	N/A
3	N/A	N/A
4	N/A	N/A

4、Test results of antenna

4.1 S11 Parameters - Main Antenna Antenna



Frequency (工作频段)	2400	2450	2500	5150	5850
VSWR (驻波比)	1.38	1.41	1.51	1.56	1.27

4、Test results of antenna

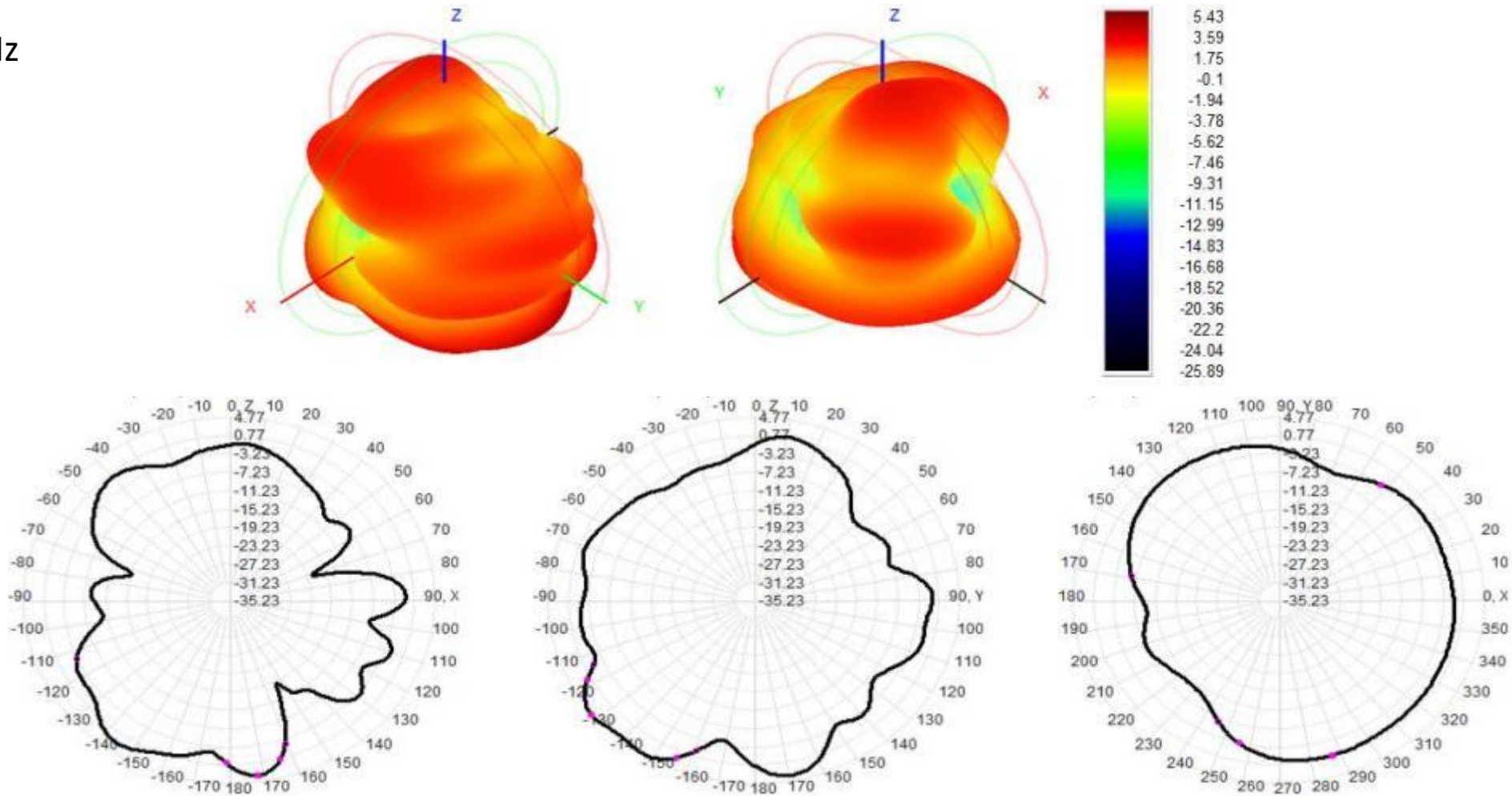
4.2 Efficiency Gain - Main Antenna Antenna

Frequency (MHz) (工作频段)	Efficiency (%) (效率)	Peak GAIN (dBi) (增益)
2400	63.68	2.43
2450	65.39	2.74
2500	66.32	2.31
5150	55.15	2.48
5850	55.40	3.45

4、 Test results of antenna

4.3 2D & 3D Radiation Patterns – Main Antenna

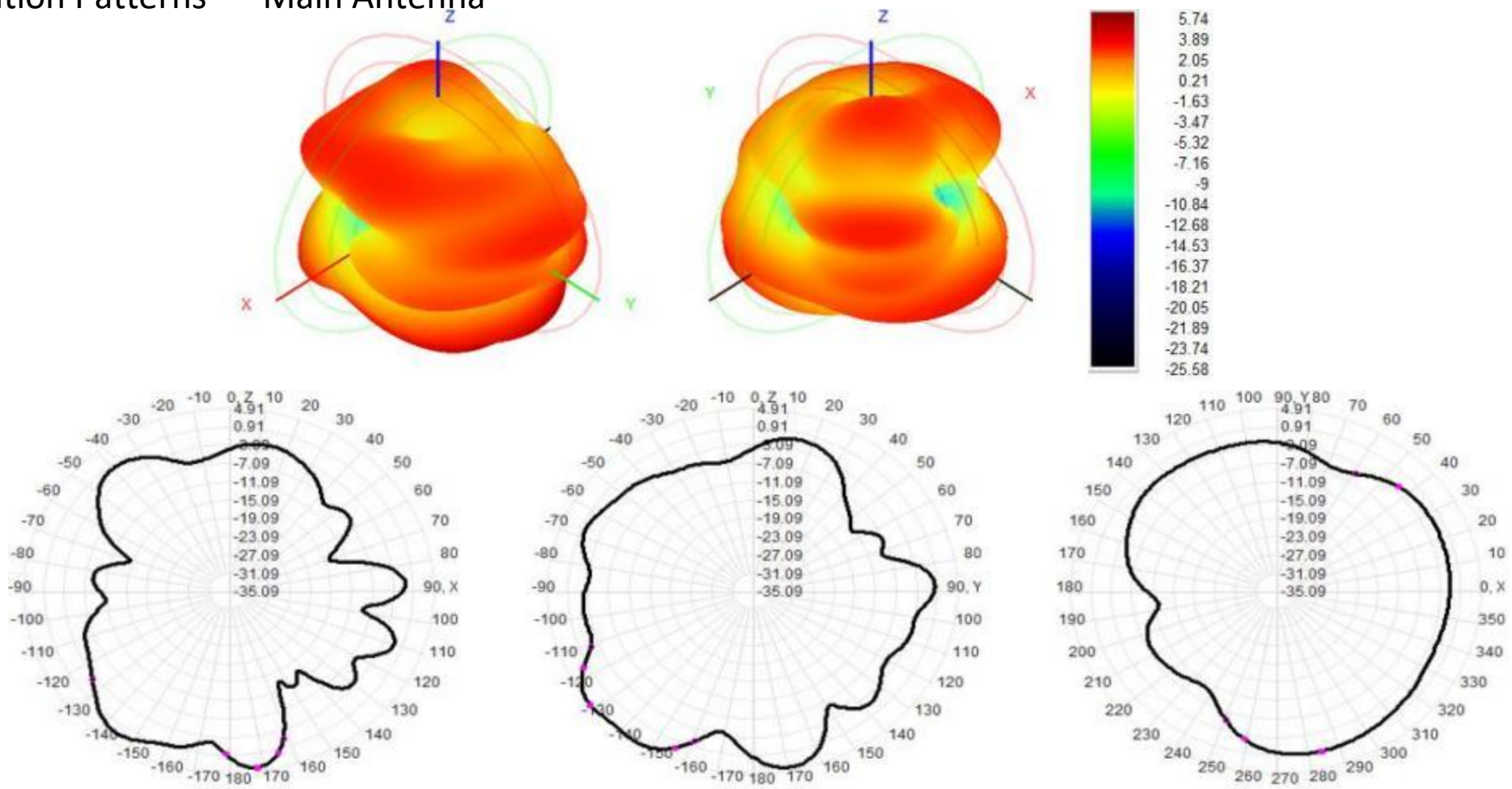
2400MHz



4、 Test results of antenna

4.3 2D & 3D Radiation Patterns – Main Antenna

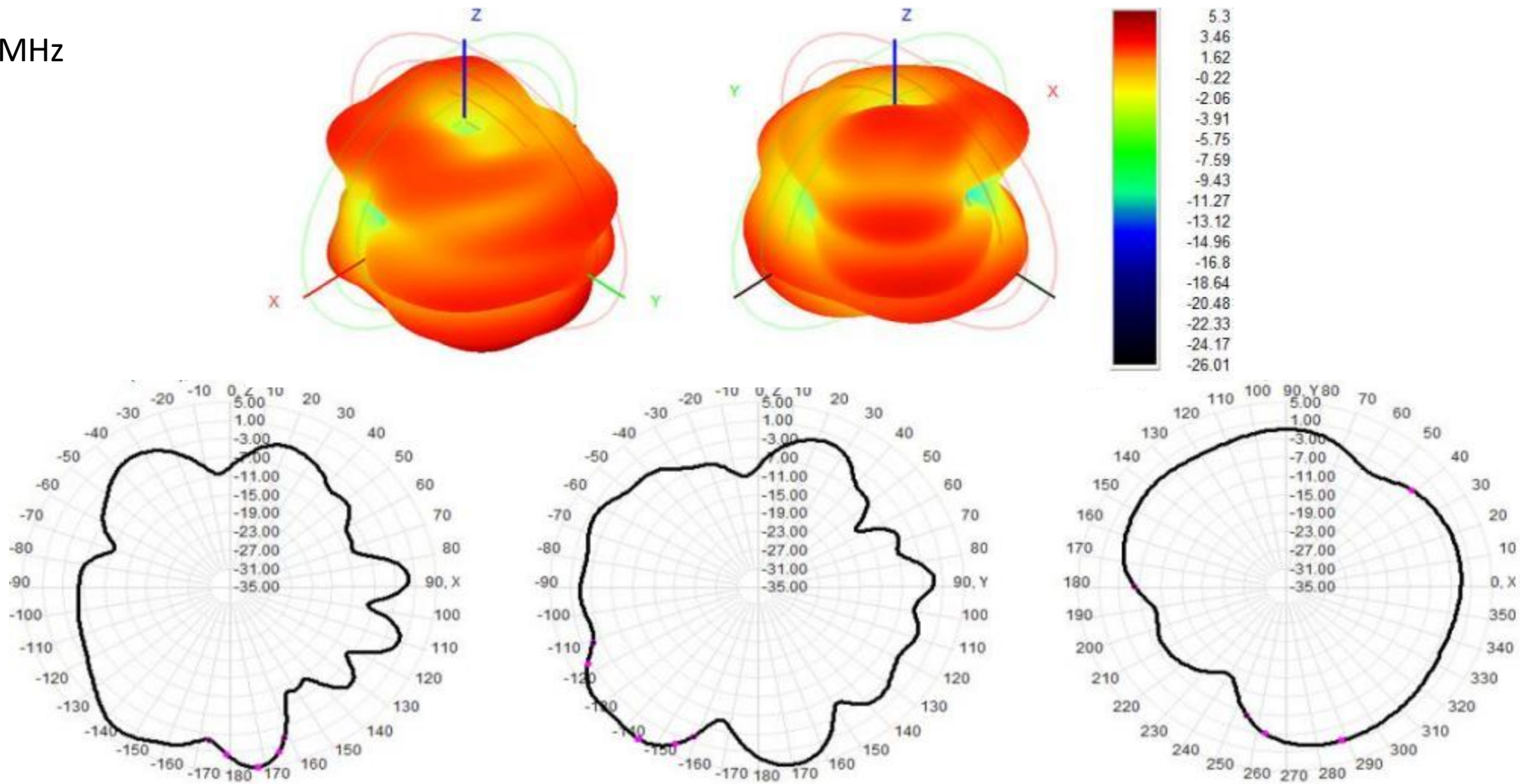
2450MHz



4、 Test results of antenna

4.3 2D & 3D Radiation Patterns – Main Antenna

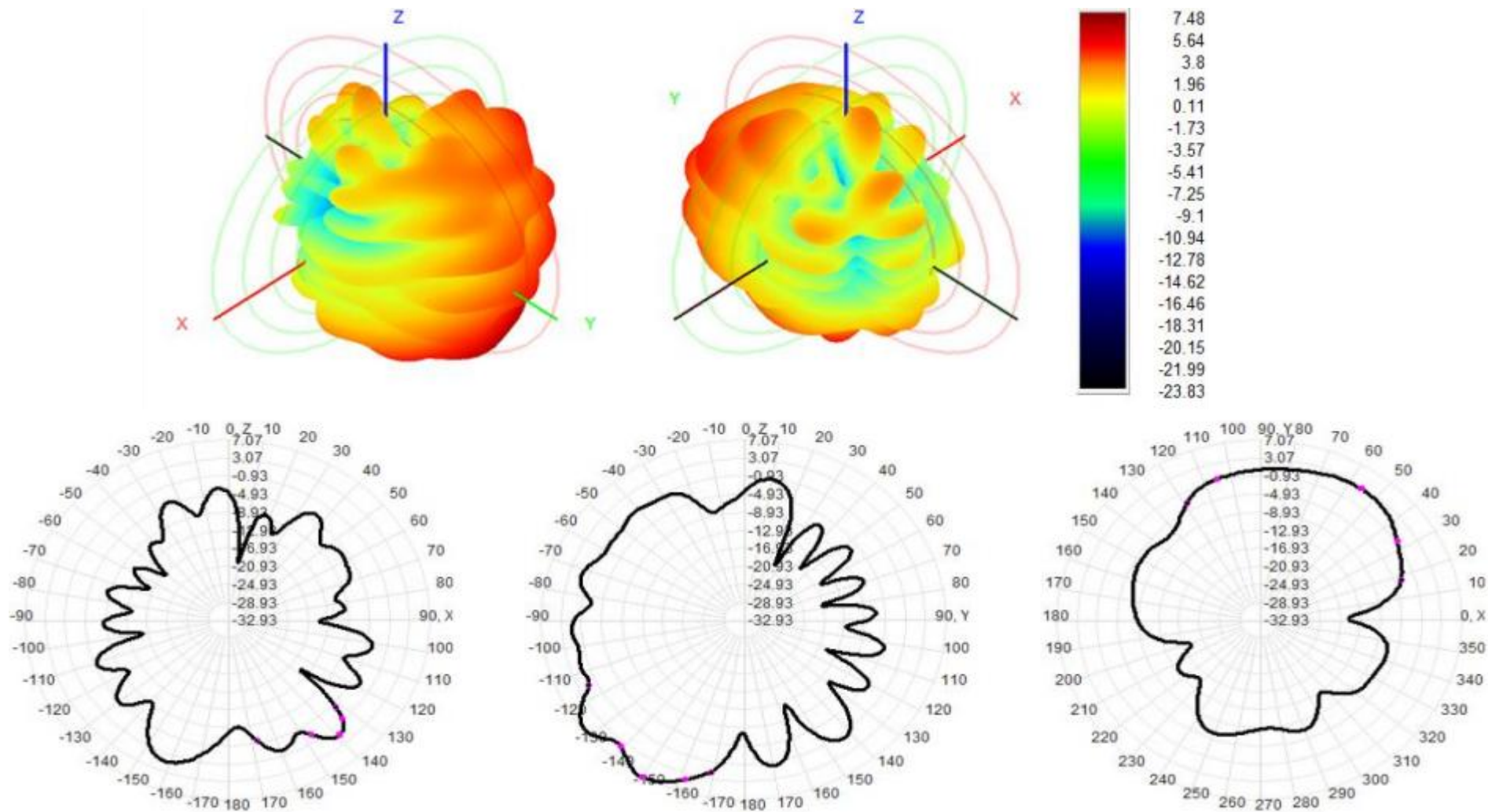
2500MHz



4、 Test results of antenna

4.3 2D & 3D Radiation Patterns – Main Antenna

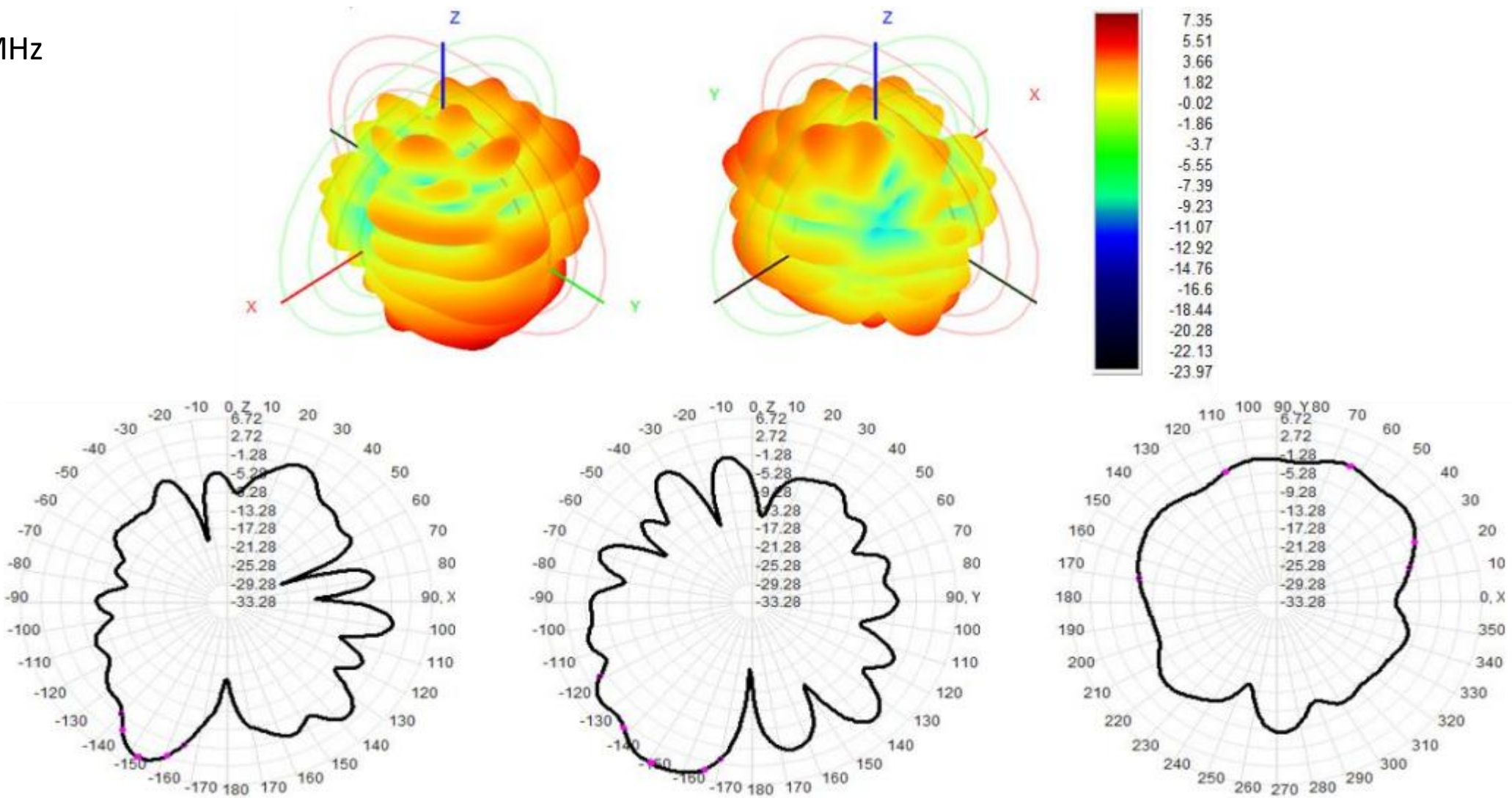
5150MHz



4、 Test results of antenna

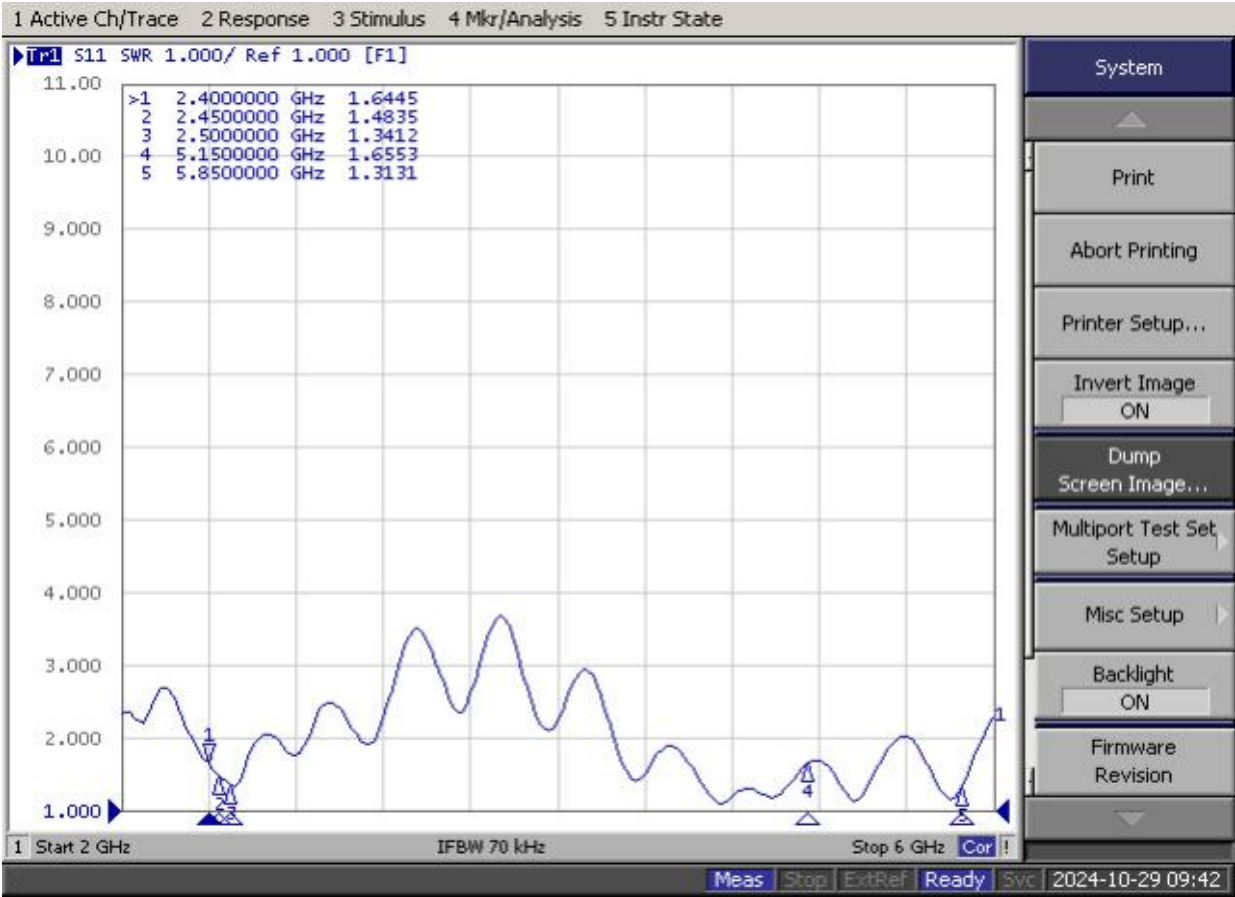
4.3 2D & 3D Radiation Patterns – Main Antenna

5850MHz



5、Test results of antenna

5.1 S11 Parameters -Sub Antenna



Frequency (工作频段)	2400	2450	2500	5150	5850
VSWR (驻波比)	1.64	1.48	1.36	1.65	1.31

5、 Test results of antenna

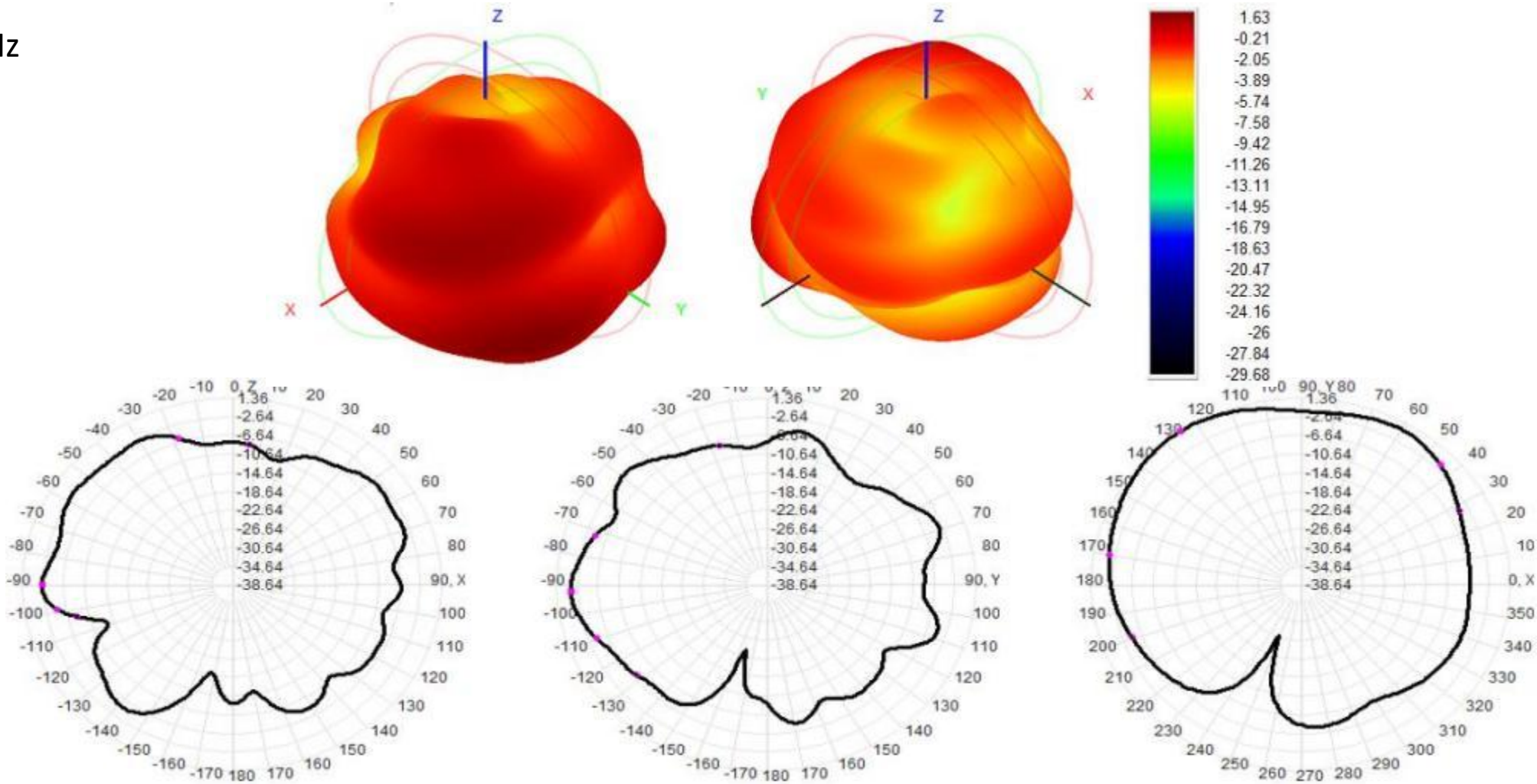
5.2 Efficiency Gain -Sub antenna

Frequency (MHz) (工作频段)	Efficiency (%) (效率)	Peak GAIN (dBi) (增益)
2400	38.59	1.63
2450	42.99	2.20
2500	48.74	2.28
5150	49.28	2.92
5850	46.67	2.22

5、 Test results of antenna

5.3 2D & 3D Radiation Patterns - Sub Antenna

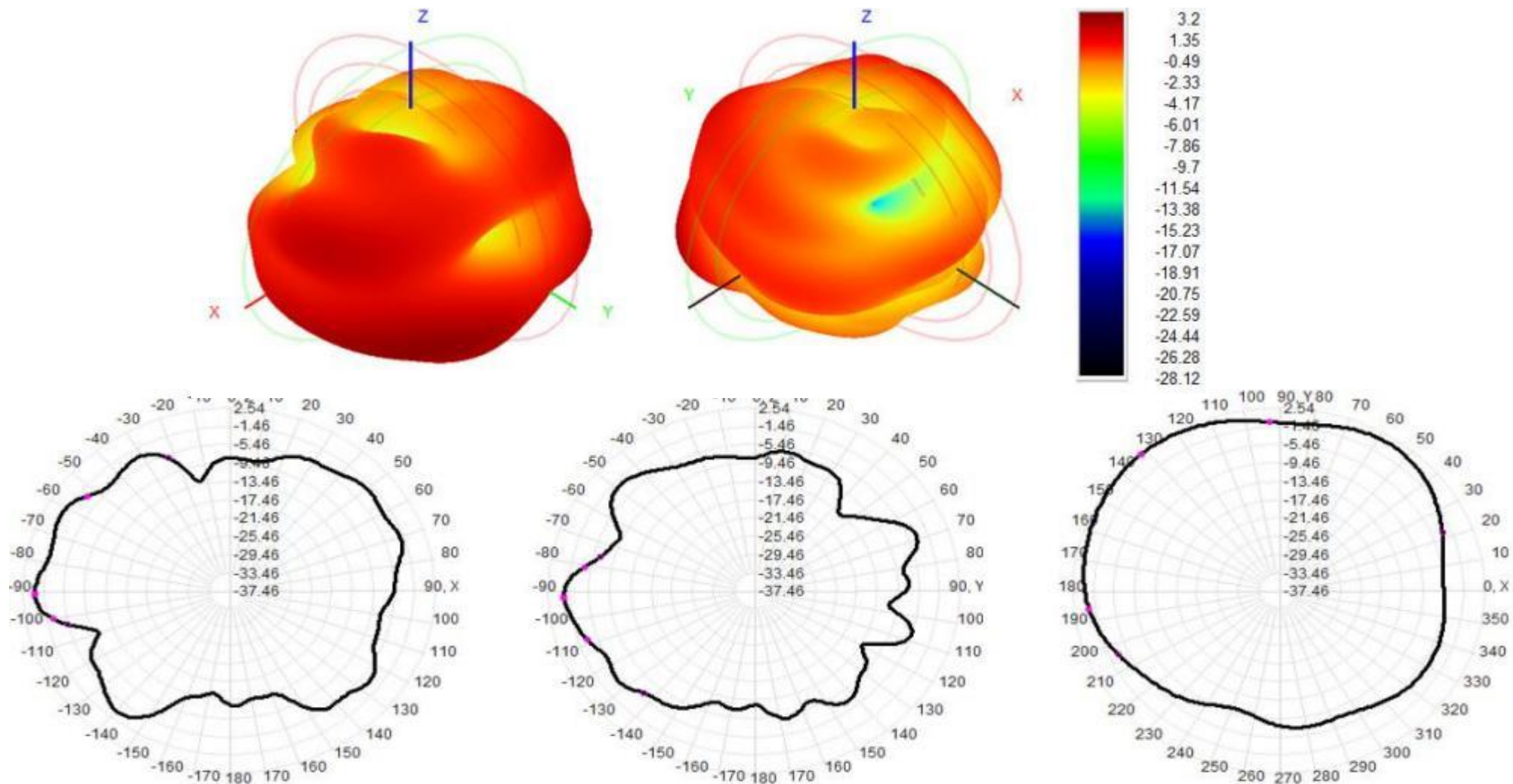
2400MHz



5、 Test results of antenna

5.3 2D & 3D Radiation Patterns - Sub Antenna

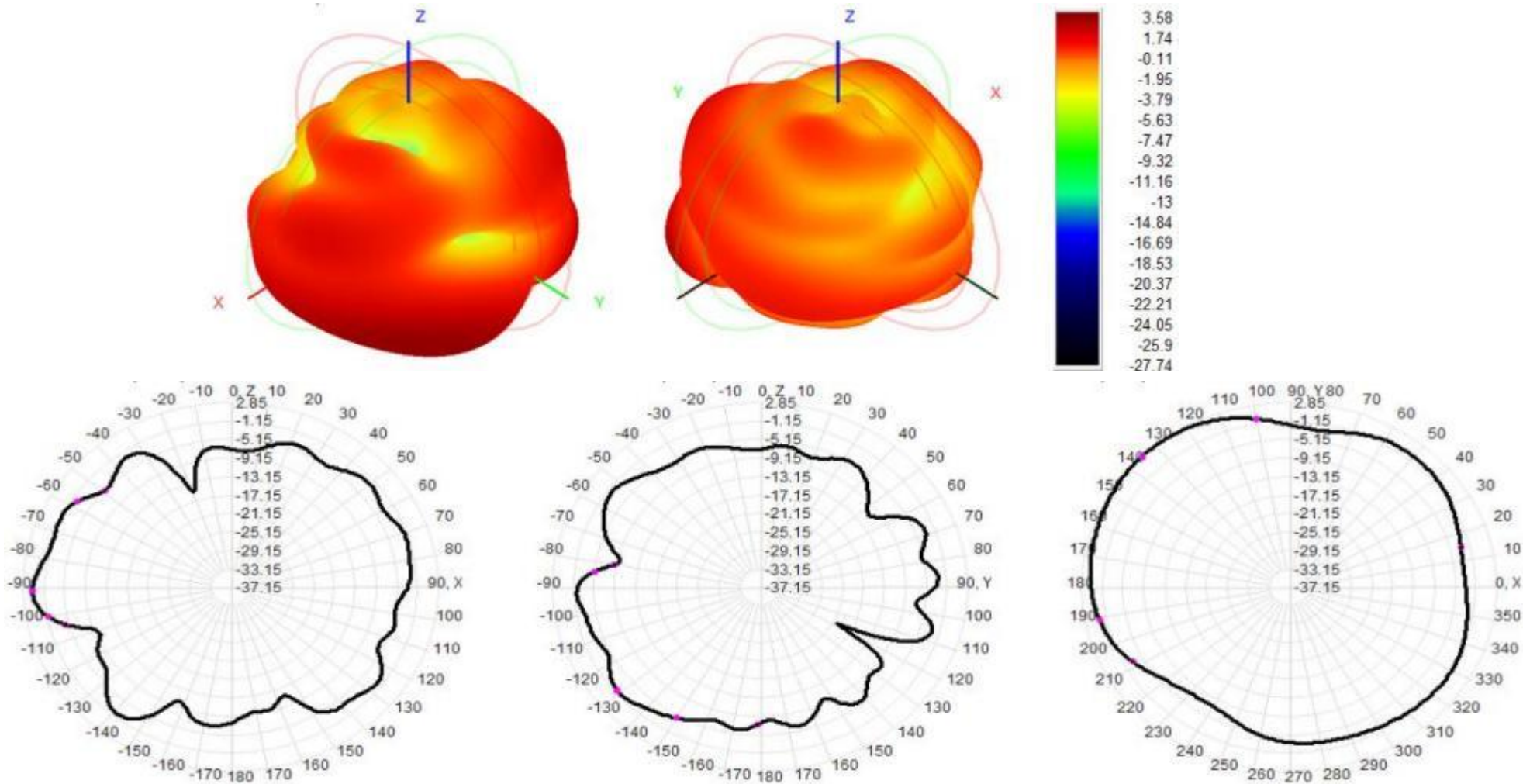
2450MHz



5、 Test results of antenna

5.3 2D & 3D Radiation Patterns - Sub Antenna

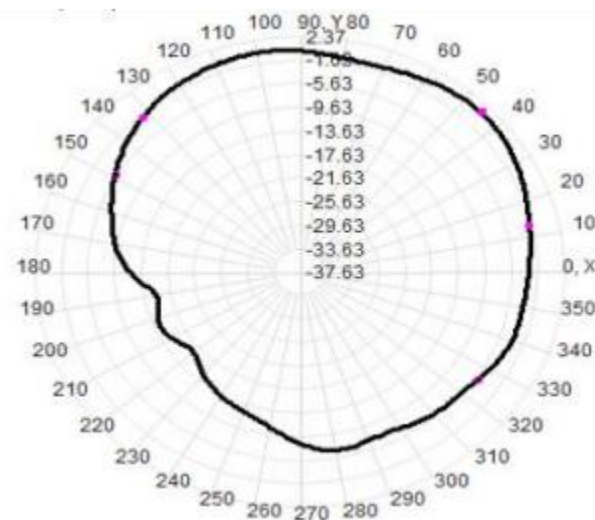
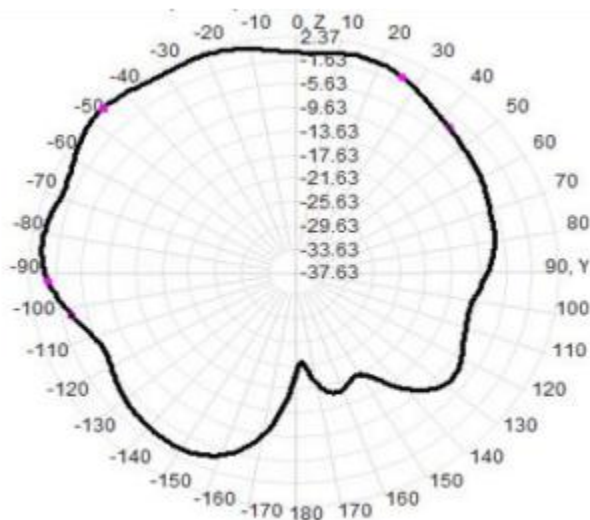
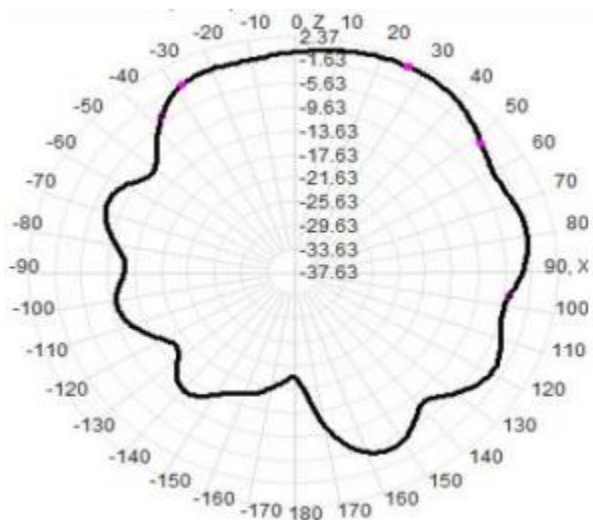
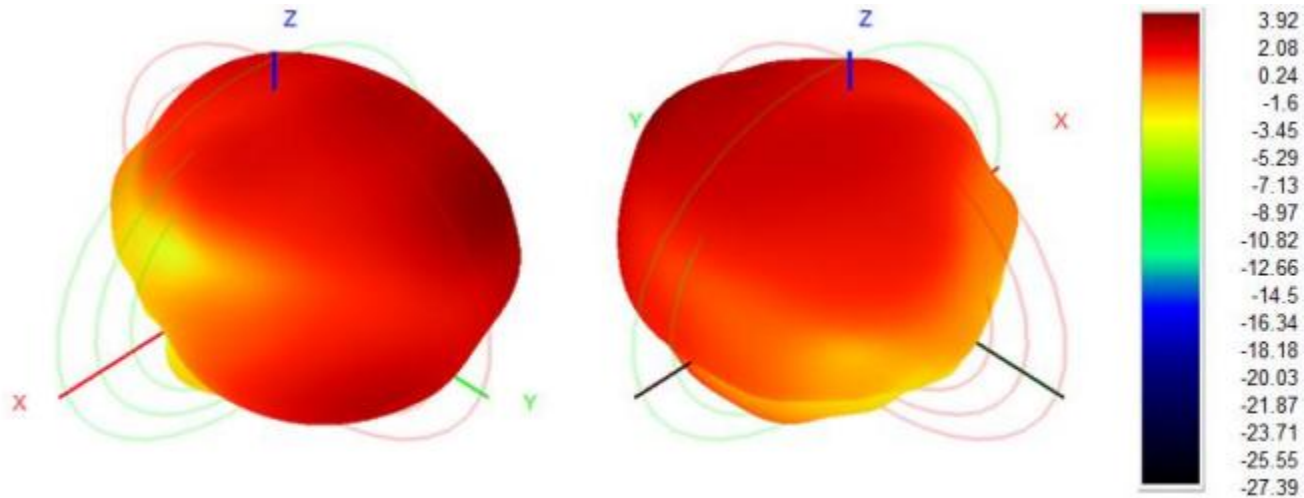
2500MHz



5、 Test results of antenna

5.3 2D & 3D Radiation Patterns - Sub Antenna

5150MHz



5、 Test results of antenna

5.3 2D & 3D Radiation Patterns - Sub Antenna

5850MHz

