Antenna Approval Sheet

For
S3 Project

Customer	翔迈特	Project	S3
Band	WiFi 2.4G		
ZC PN	XF003-CA-93		
Version	R:A	Data	2022-11-16

RF		ME	
Checked By			
Confirmed By			
Cust Confirm			

1. Summary of the DUT

Antenna Picture

Antenna types	Built-in wifi 2.4GHZ antenna
Frequency	2400-2500 MHz
Impedance	50 Ω
VSWR	< 2.0
Gain	1.5dBi REF
Efficiency	>35 %
Antenna Material	FPC+同轴线
Connector Type	Soldering

2. Test Condition

	测试项目	测试设备和型号	备注
1.无源测试	1.Return Loss 2.S.W.R 2.Antenna Gain	1. R&S ZVL6 2.Satimo SG24(3D) 3. Agilent 8960 E5515C	

3. RF Performance

3.1.1 WIFI Antenna Material

The antenna material was FPC+同轴线

3.1.2 Matching Circuit

The matching circuit was shown below:

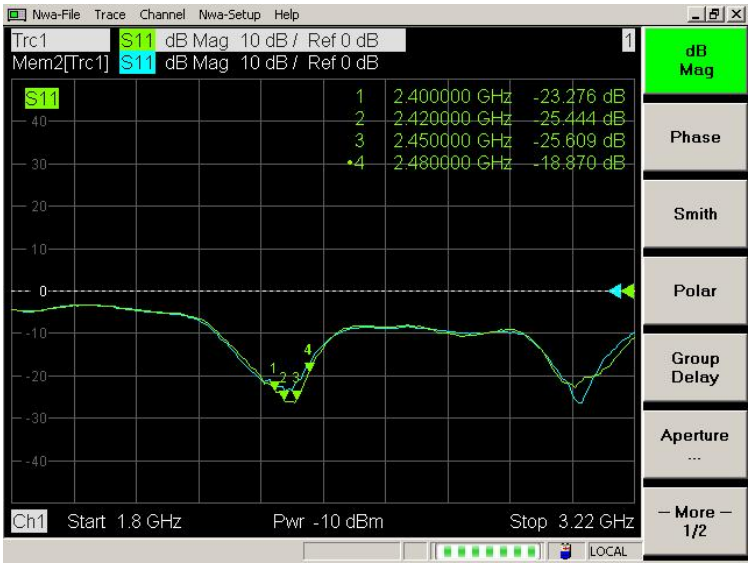
Antenna Matching Circuit	原始

3.1.3 Measurement

Freq. (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain (dBi)	0.78	1.15	1.26	1.41	1.81	2.05	1.76	1.52	1.39	1.15	0.85
Antenna Peak Gain					2dBi						

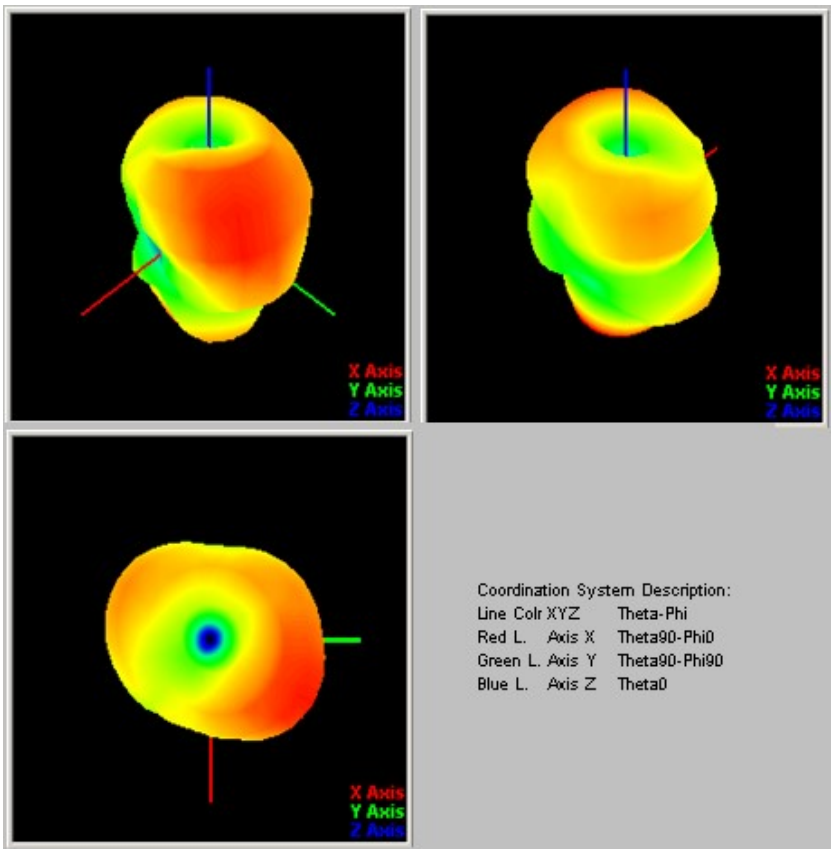
4.3 S Parameter

Frequency (MHz)	2400	2450	2480
Return Loss(dB)	-23.27	-25.6	-18.87
VSWR	1.13	1.15	1.32

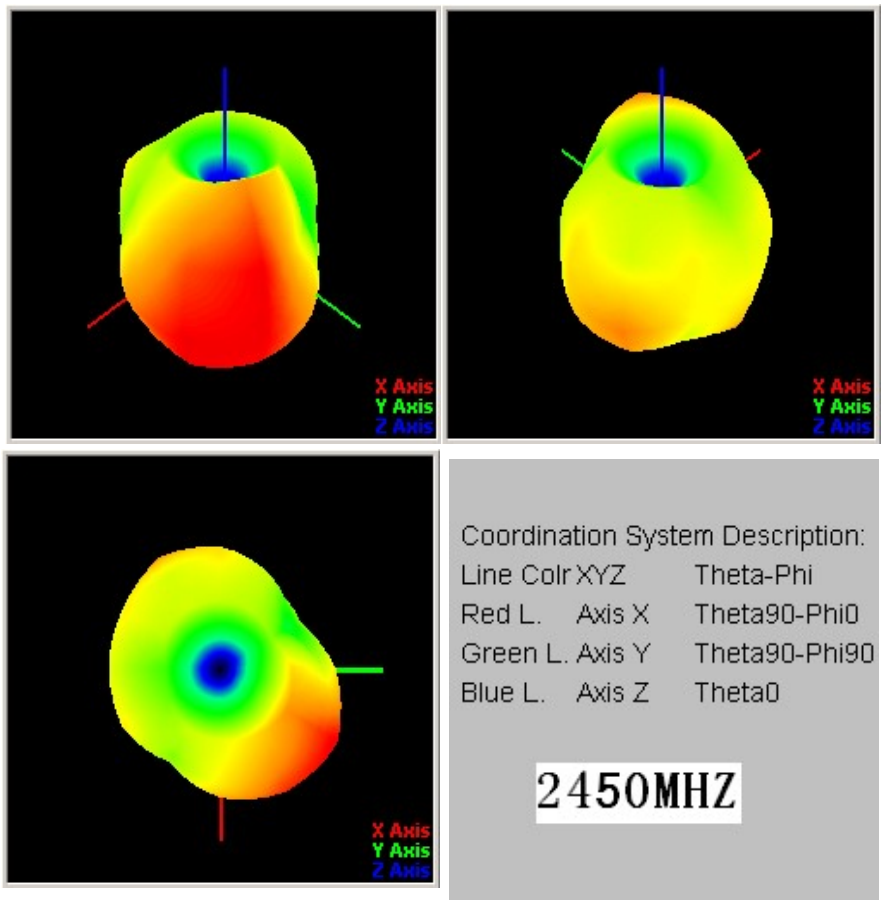


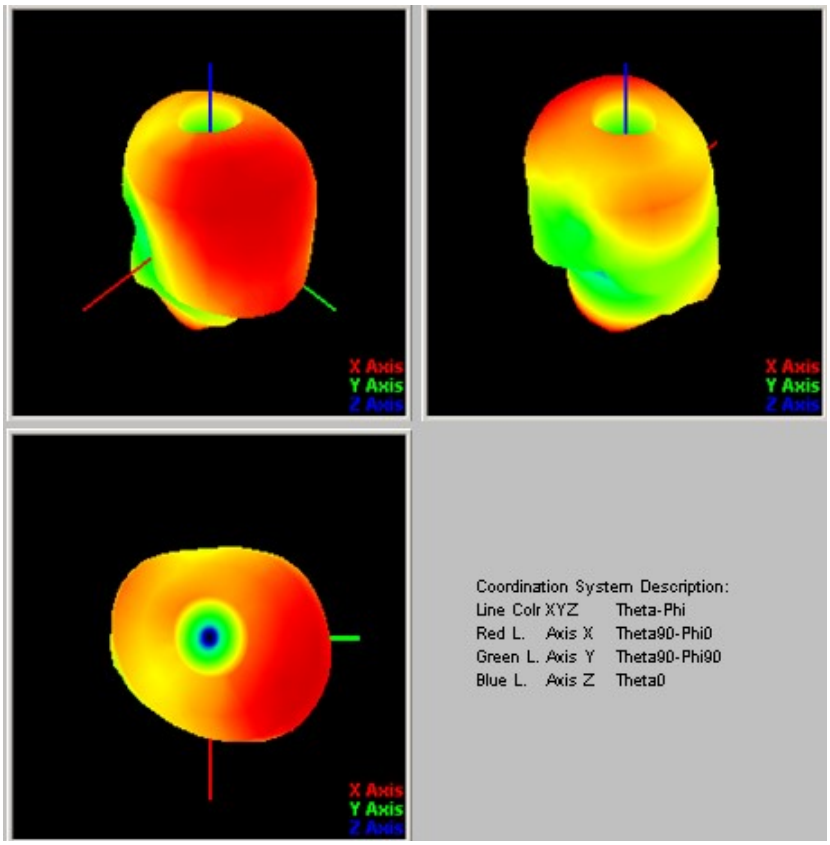
4.4 Radiation Pattern

4.4.1 Antenna 3D Radiation Pattern



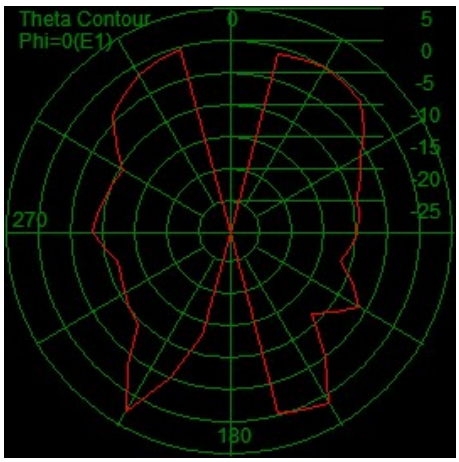
2400 MHZ

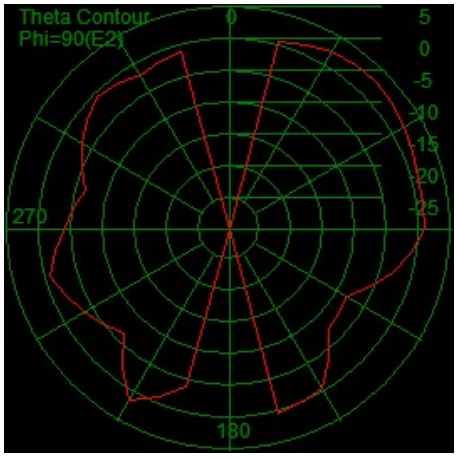


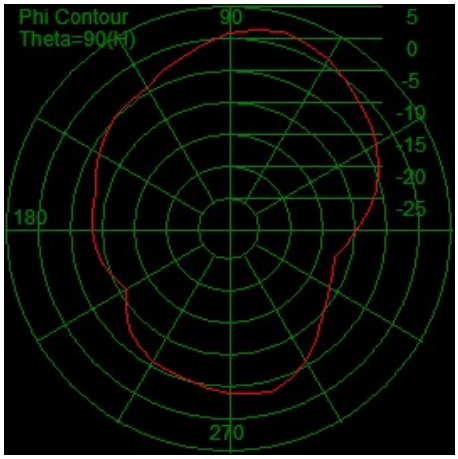


2500 MHZ

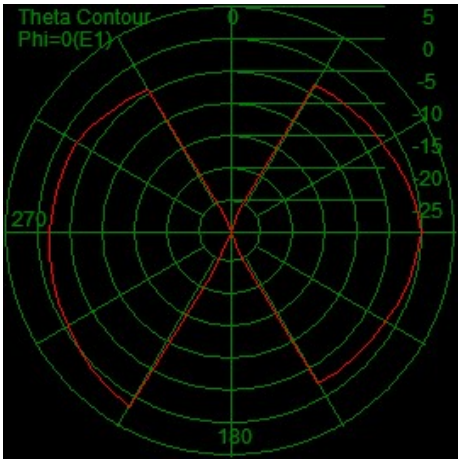
4.4.2 Antenna 2D Radiation Pattern

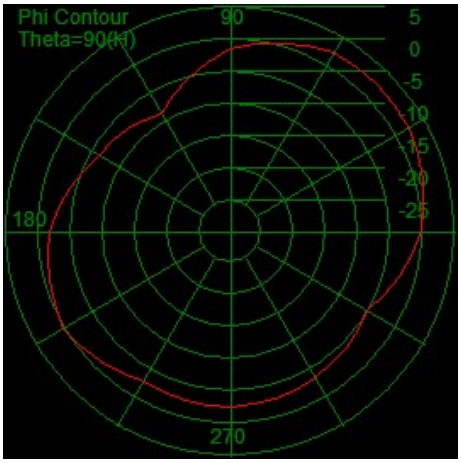


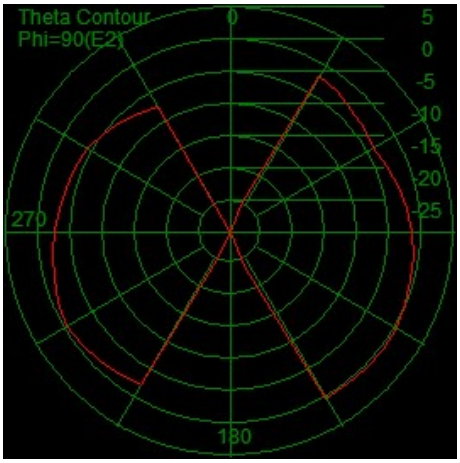




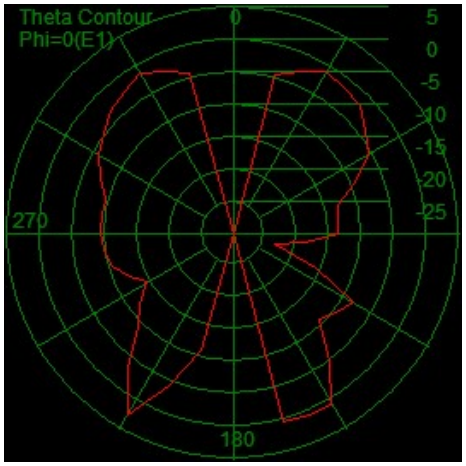
2400 MHZ

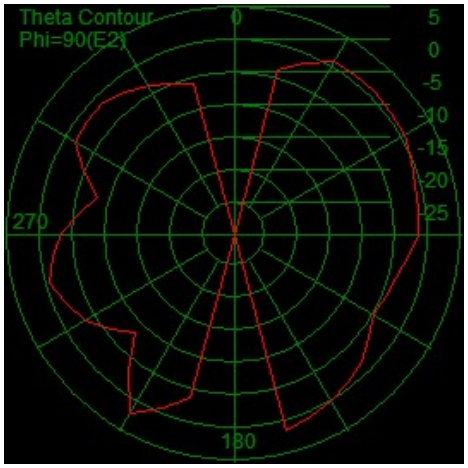


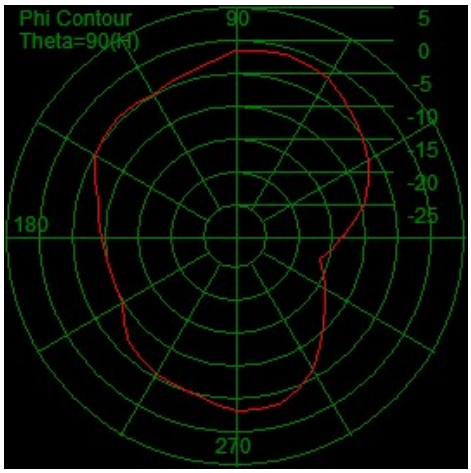


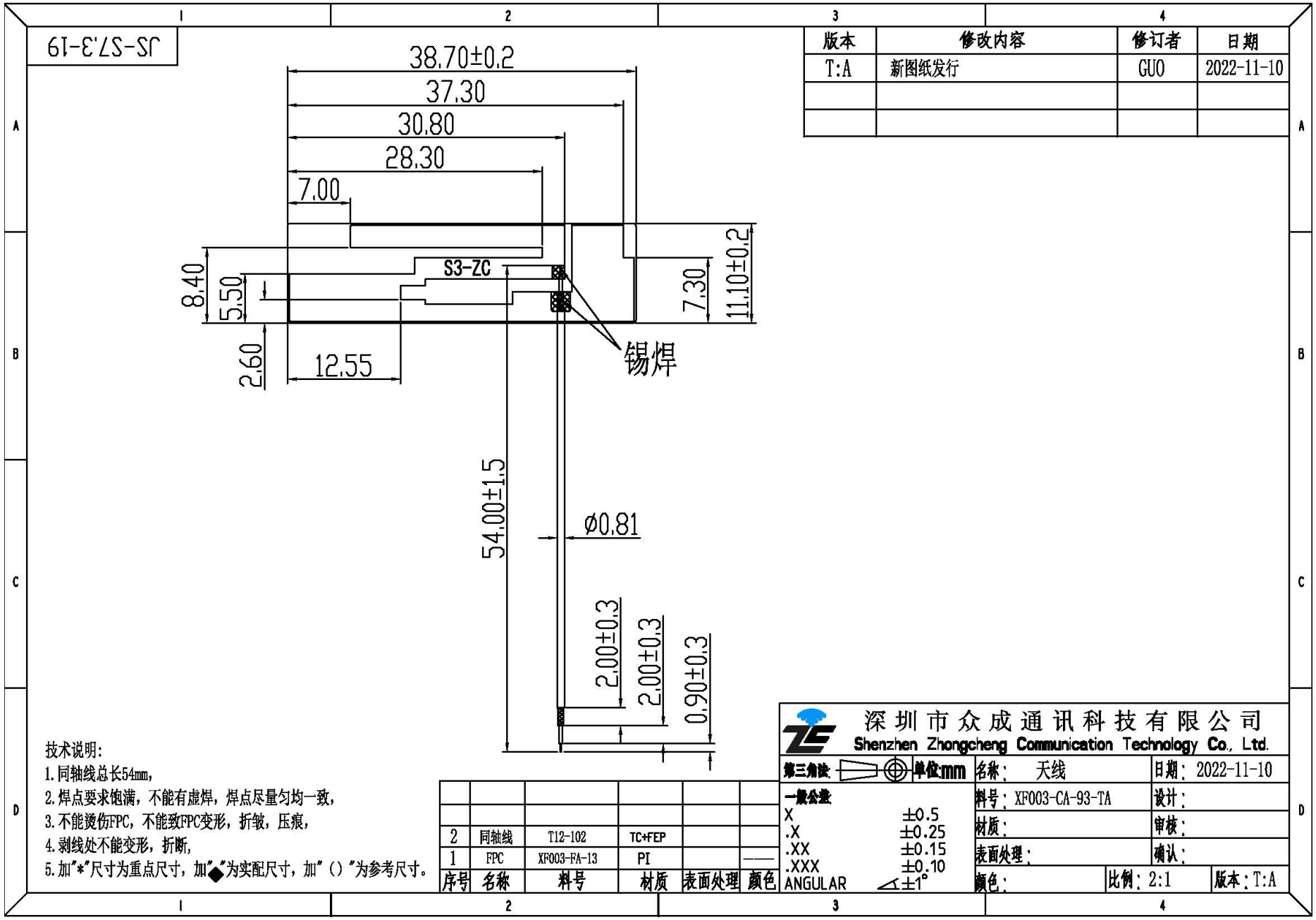


2450 MHZ







2500 MHZ

4. ME Drawing for the antenna