SPECIFICATION FOR APPROVAL

CUSTOMER/PROJECT： LANDI C20SE

CUSTOMER P.N. ：

PRODUCT NAME. ： WIFI Antenna

MODEL NO. ： 5U071A

SPECIFICATION ：

VERSION	DATE	REVISION DESCRIPTION
T:A	2023-12-29	newly added
T:B	2024-01-02	Update drawings
T:C	2024-01-22	Update drawings
T:D	2024-03-05	Update data
T:E	2024-03-18	Update drawings
T:F	2024-03-22	Update drawings
T:G	2025-01-13	Update data

SUPPLIER AUTHORIZED SIGNATURE		
PREPARED	CHECKED	APPROVED
XUHAIJUN		

CUSTOMER AUTHORIZED SIGNATURE			
Project		Quality	

ADD: No.358 Liuyuan RD., Baoshan Urban Industrial District.,Shanghai,PR.China.
地址：上海市宝山城市工业园区柳园路358号5号楼5楼
TEL: +86-21-66276925(26/29/35) - 615

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1 DEFINITION

dBi	Decibel relative isotropic antenna
Tx	Transmit frequency
Rx	Receive frequency
TRP	Total Radiated Power
TIS	Total Isotropic Sensitivity
VSWR	Voltage Standing Wave Ratio
GSM	Global Service for Mobile communication
DCS	Digital Communication System
CDMA	Code Division Multiple Access
WCDMA	Wideband Code Division Multiple Access

2 Test equipment

Can be increased or decreased according to actual situation

vector network analyzer

Comprehensive test instrument

GTS darkroom

3 Applicable frequency band

Mark the applicable frequency bands with other colors。

	Frequency
WIFI(2.4G)	2412MHz～2483MHz
WIFI(5G)	5150MHz～5850MHz

4 Basic testing items

4.1 Standing wave ratio diagram

4.2 Smith impedance diagram

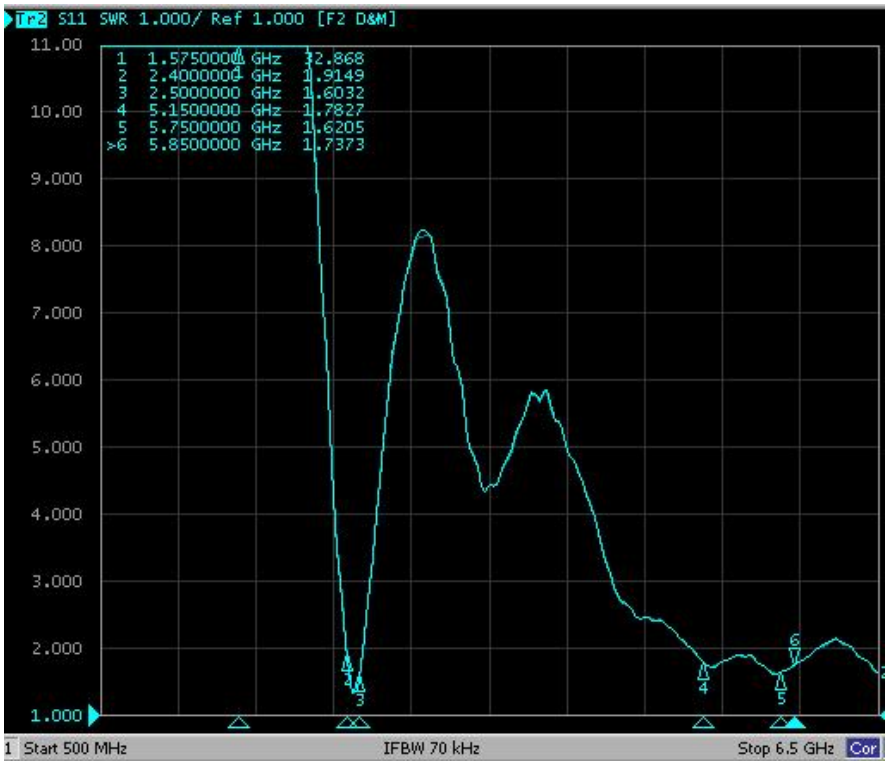
4.3 Radiation pattern

4.4 Gain and efficiency

5 Test indicators and data charts

5.1 standing-wave ratio

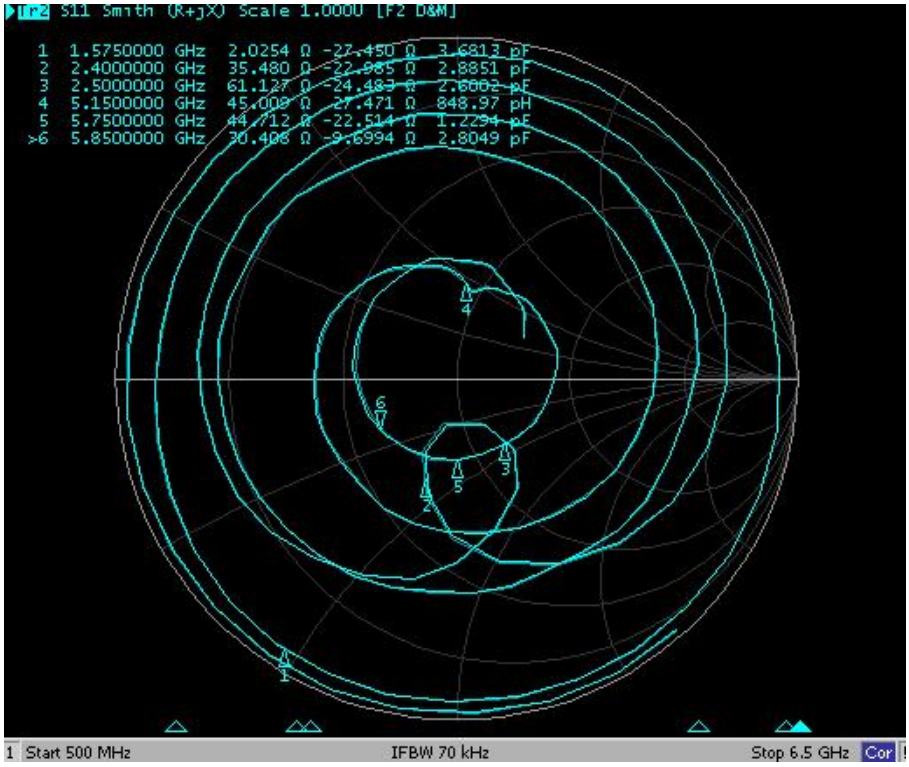
5.1.1 Standing wave ratio diagram



5.1.2 Standing wave ratio data

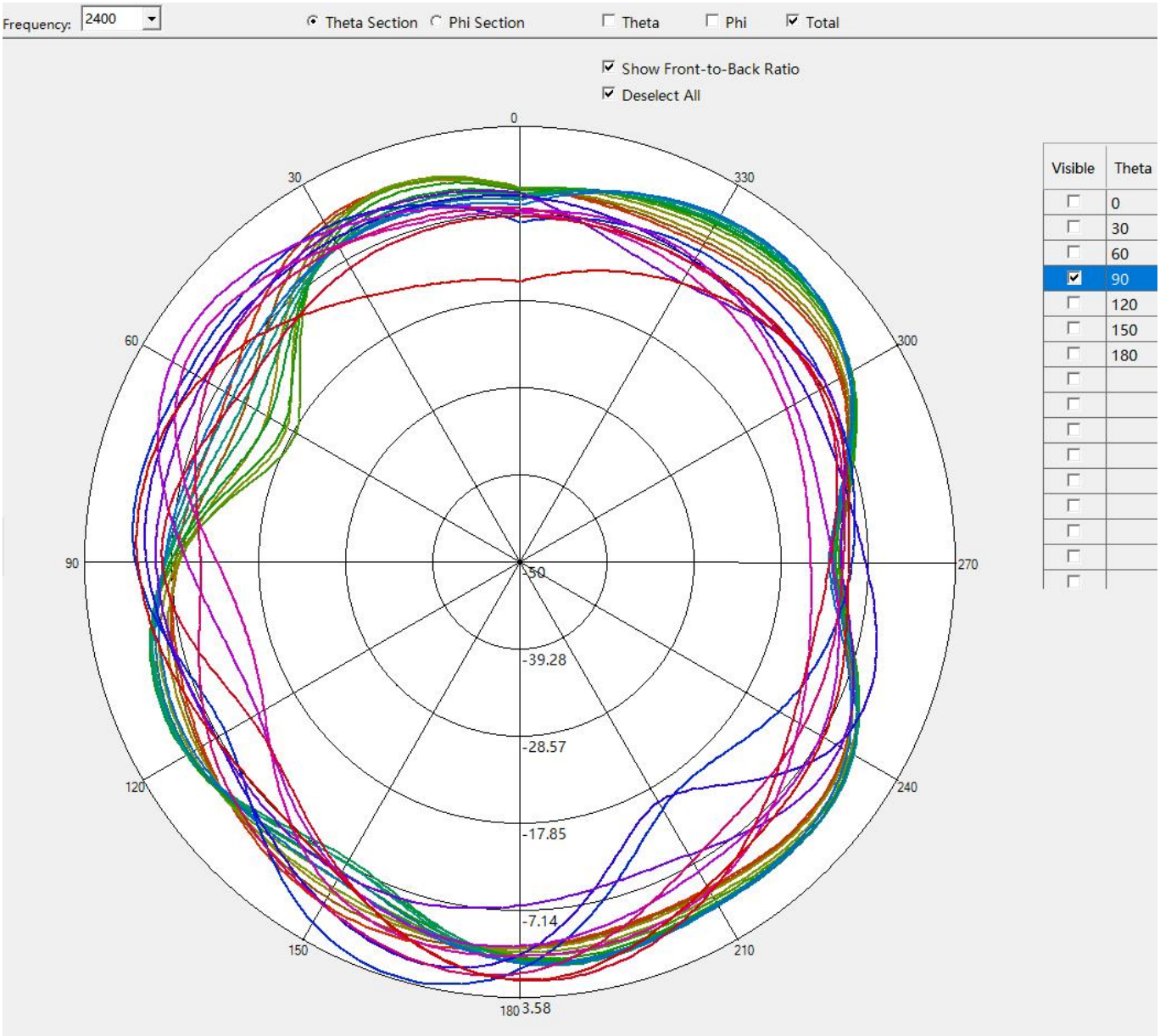
Freq/MHz	2400	2500	5150	5750	5850
VSWR	1.9	1.6	1.7	1.6	1.7

5.2 Smith impedance circle diagram



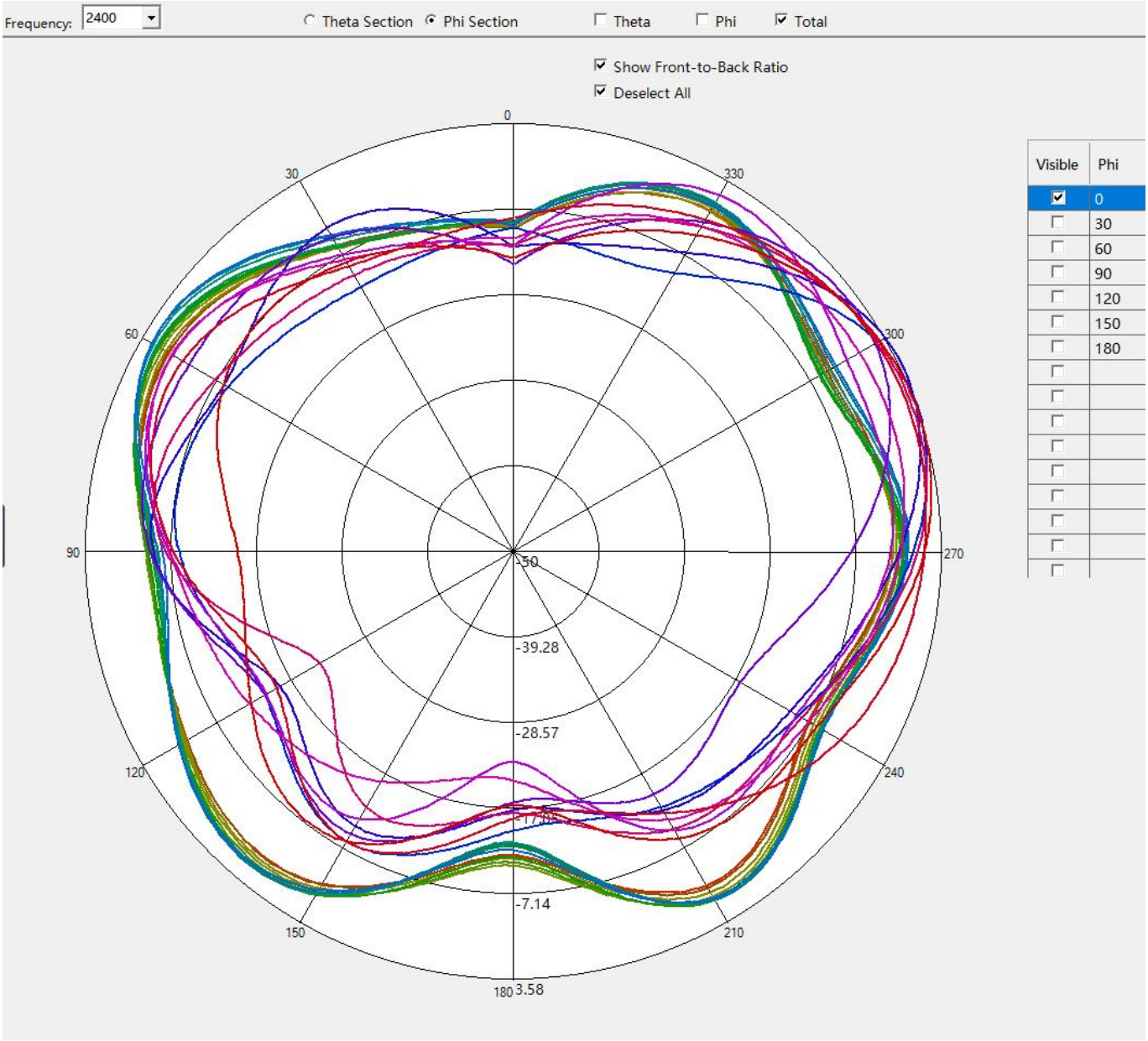
5.3Radiation pattern

5.3.1H-plane

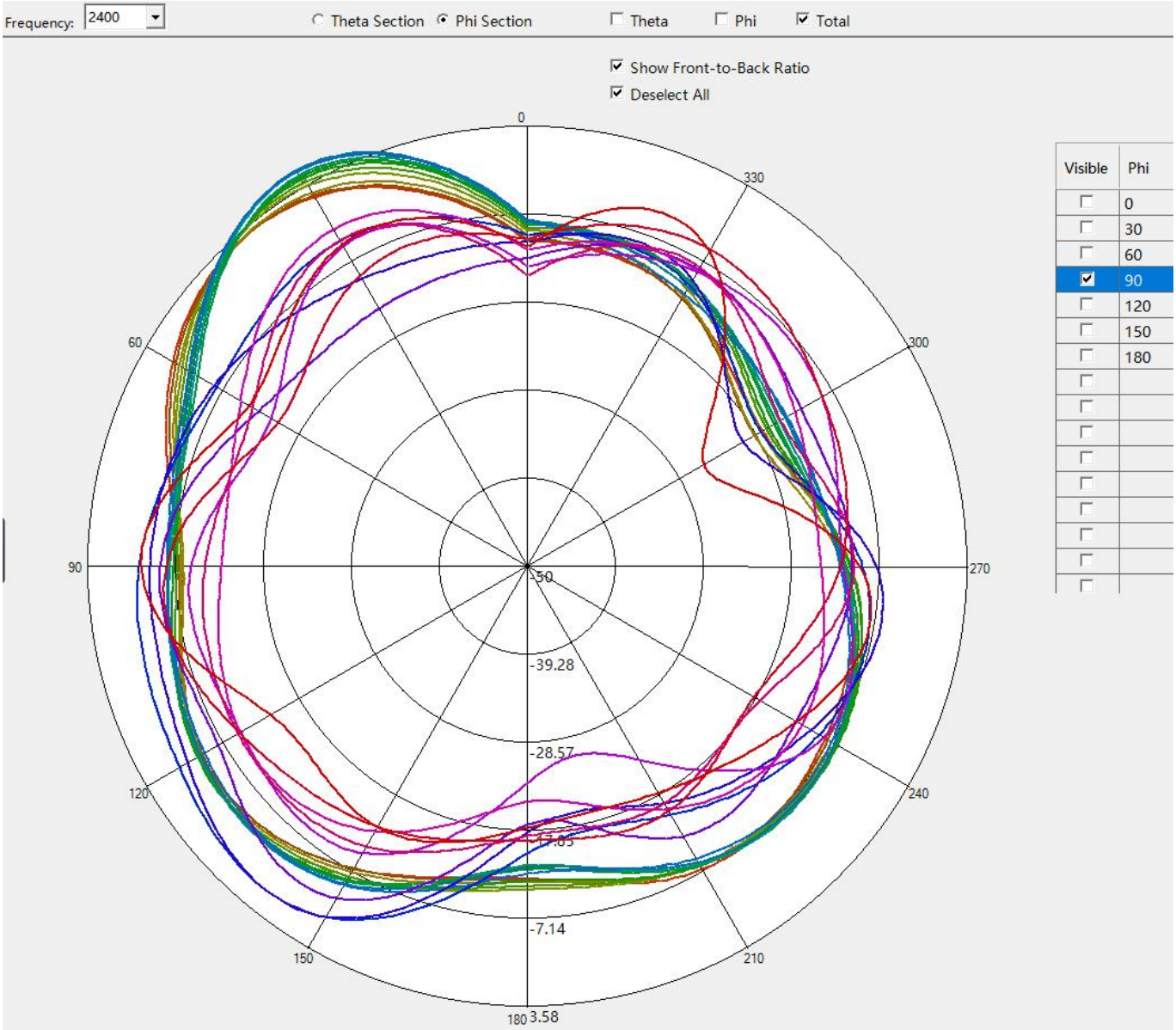

Frequency: 2400
Theta Section
Phi Section
Theta
Phi
Total
Show Front-to-Back Ratio
Deselect All
Visible
Theta
0
30
60
90
120
150
180
0
30
60
90
120
150
180
210
240
270
300
330
-50
-39.28
-28.57
-17.85
-7.14
3.58

5.3.2E-plane

E1



E2


Frequency: 2400
Theta Section
Phi Section
Theta
Phi
Total
Show Front-to-Back Ratio
Deselect All
Visible
Phi
0
30
60
90
120
150
180
0
330
300
270
240
210
180
150
120
90
60
-50
-39.28
-28.57
-17.85
-7.14
3.58

5.4 Gain and efficiency

Freq (MHZ)	Eff(%)	GAIN(DBi)		Freq (MHZ)	Eff(%)	GAIN(DBi)
2400	51.47	4.55		5150	50.20	3.21
2410	48.90	4.19		5250	59.57	4.19
2420	48.07	4.03		5350	55.07	3.39
2430	48.92	4.10		5450	53.57	5.71
2440	48.67	3.99		5550	44.44	4.64
2450	46.63	3.89		5650	55.51	5.43
2460	45.36	3.59		5750	47.63	4.72
2470	43.17	3.50		5850	47.90	4.52
2480	42.87	3.55				
2490	43.73	3.83				
2500	43.63	3.94				

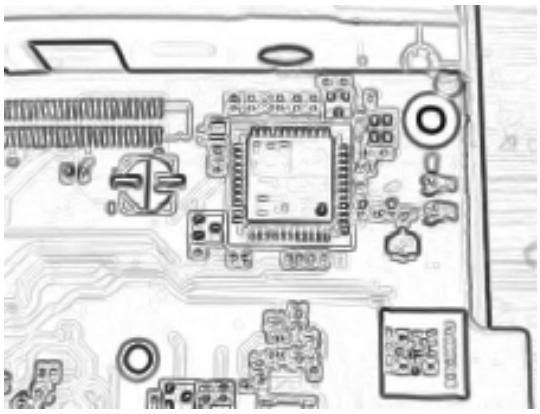
Active data

	CH	TRP		TIS	
11B	1	14.50		-81.03	
	6	15.18		-81.89	
	11	14.71		-82.78	
11A	36	13.75		-70.56	
	64	14.10		-70.14	
	165	11.54		-69.94	

6 Environmental treatment suggestions

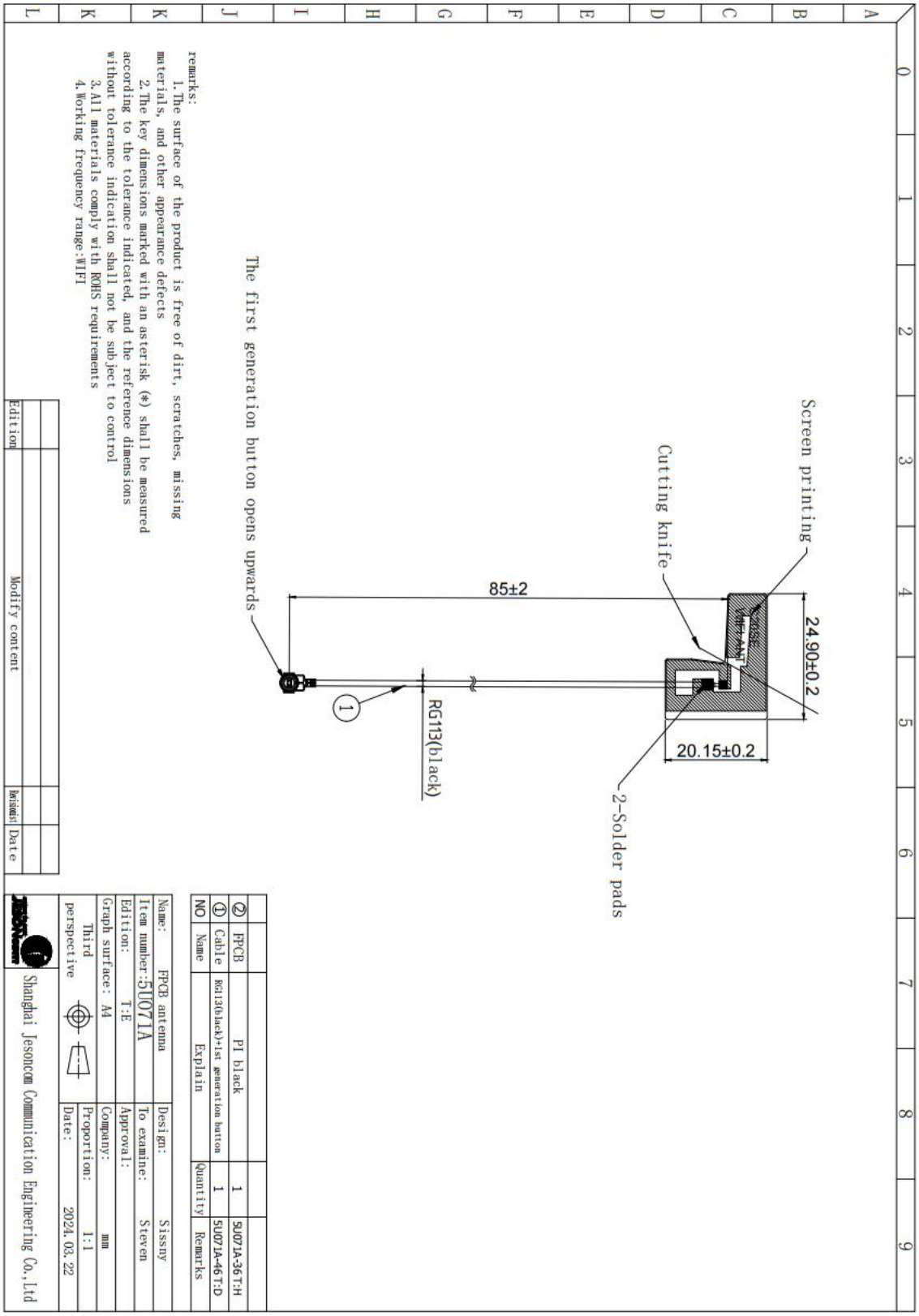
N/A

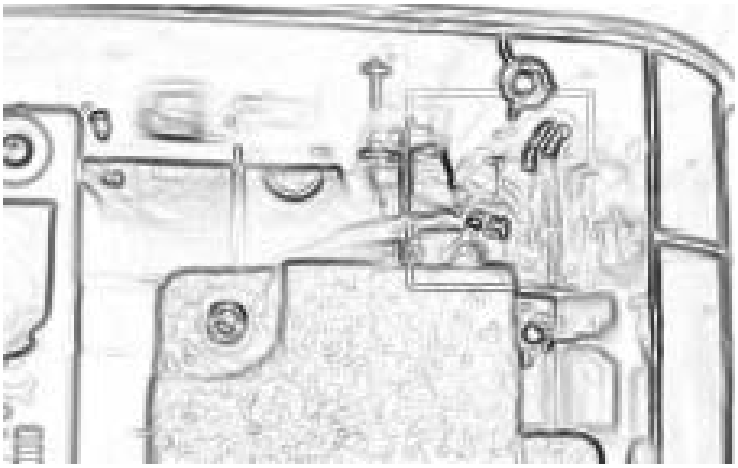
7 Impedance matching requirements



The matching circuit is only connected in series with 0 ohms， No other components.

8 Antenna Outline Drawing



9 Antenna Installation Guide

9.1 Antenna installation and feeder routing instructions