SPECIFICATION FOR APPROVAL

CUSTOMER/PROJECT： Centerm F610-5

CUSTOMER P.N. ：

PRODUCT NAME. ： WIFI Antenna

MODEL NO. ： 3V118A

SPECIFICATION ：

VERSION	DATE	REVISION DESCRIPTION
T:A	2024/03/06	newly added
T:B	2024/04/23	Update drawings
T:C	2024/07/19	Update English version

SUPPLIER AUTHORIZED SIGNATURE		
PREPARED	CHECKED	APPROVED
XUHAIJUN		

CUSTOMER AUTHORIZED SIGNATURE			
Project		Quality	

Please return to us one copy of “SPECIFICATION FOR APPROVAL”with your approved signature./ /客户确认签字，盖章后请回传一份承认书给我司.

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Content

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。

Standard format	Frequency band
WIFI(2.4G)	2412MHz～2483MHz
5.8G	5150MHz～5850MHz

4 Basic testing items

4.1 Standing wave ratio diagram

4.2 Smith impedance diagram

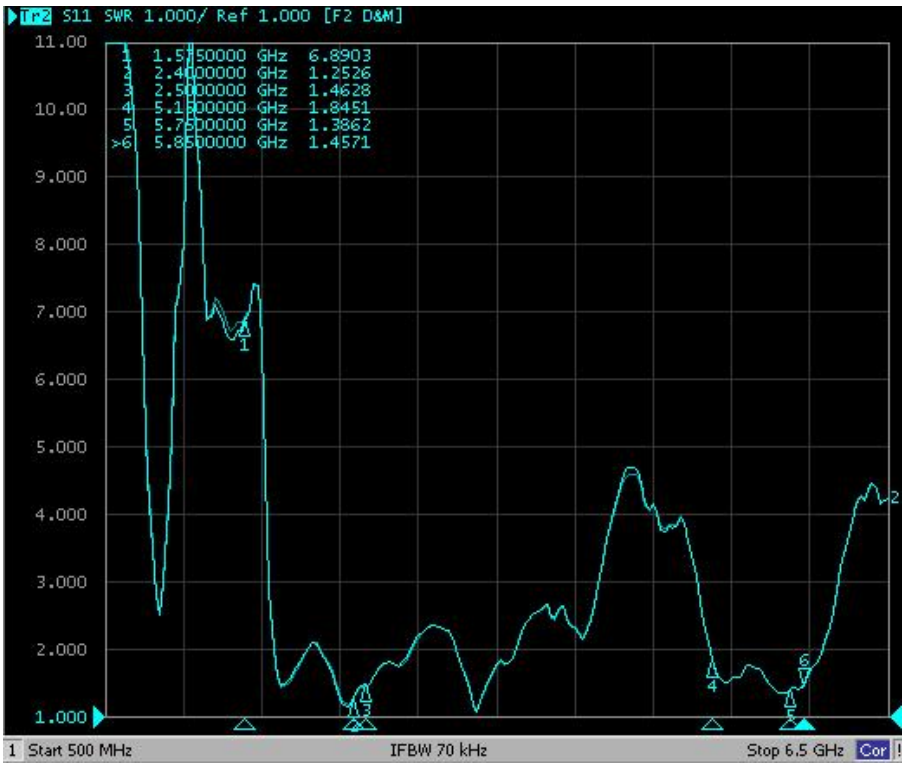
4.3 Radiation pattern

4.4 Gain and efficiency

5 Test indicators and data charts

5.1 standing-wave ratio

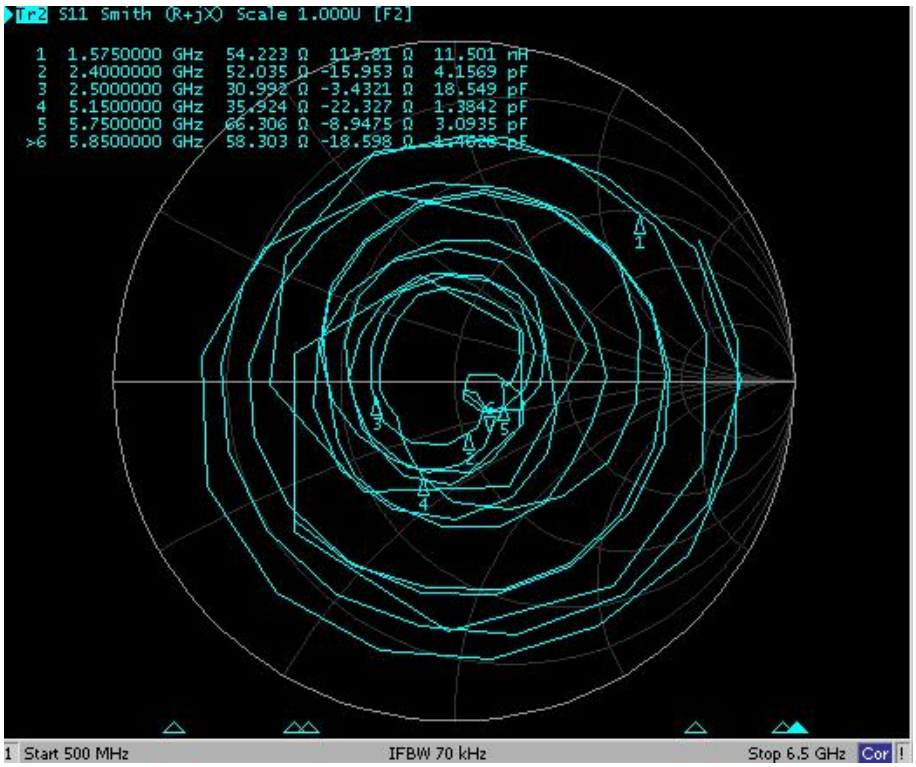
5.1.1 Standing wave ratio diagram



5.1.2 Standing wave ratio data

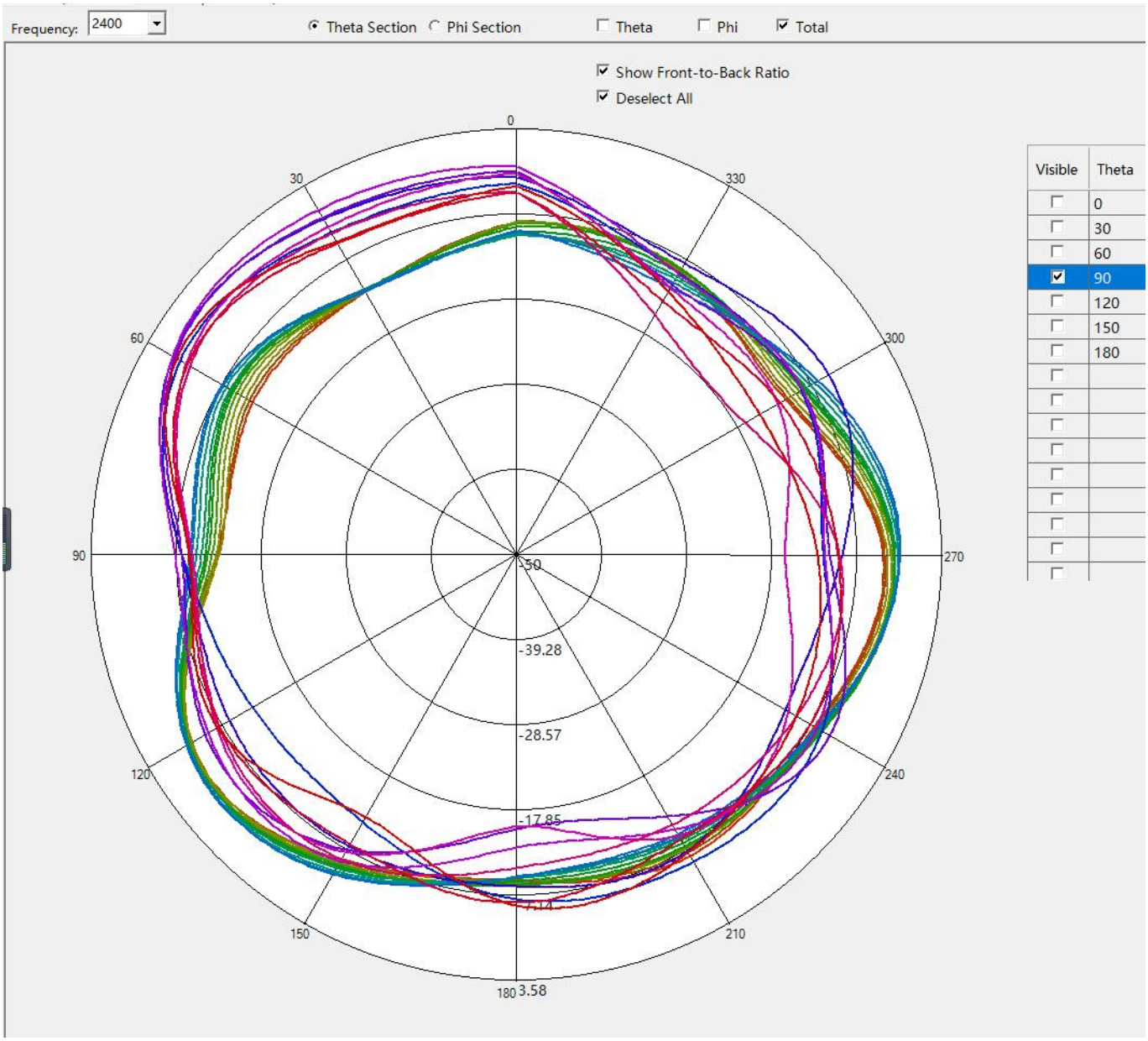
Freq/MHz	2400	2500	5150	5750	5850
VSWR	1.2	1.4	1.8	1.3	1.4

5.2 Smith impedance circle diagram



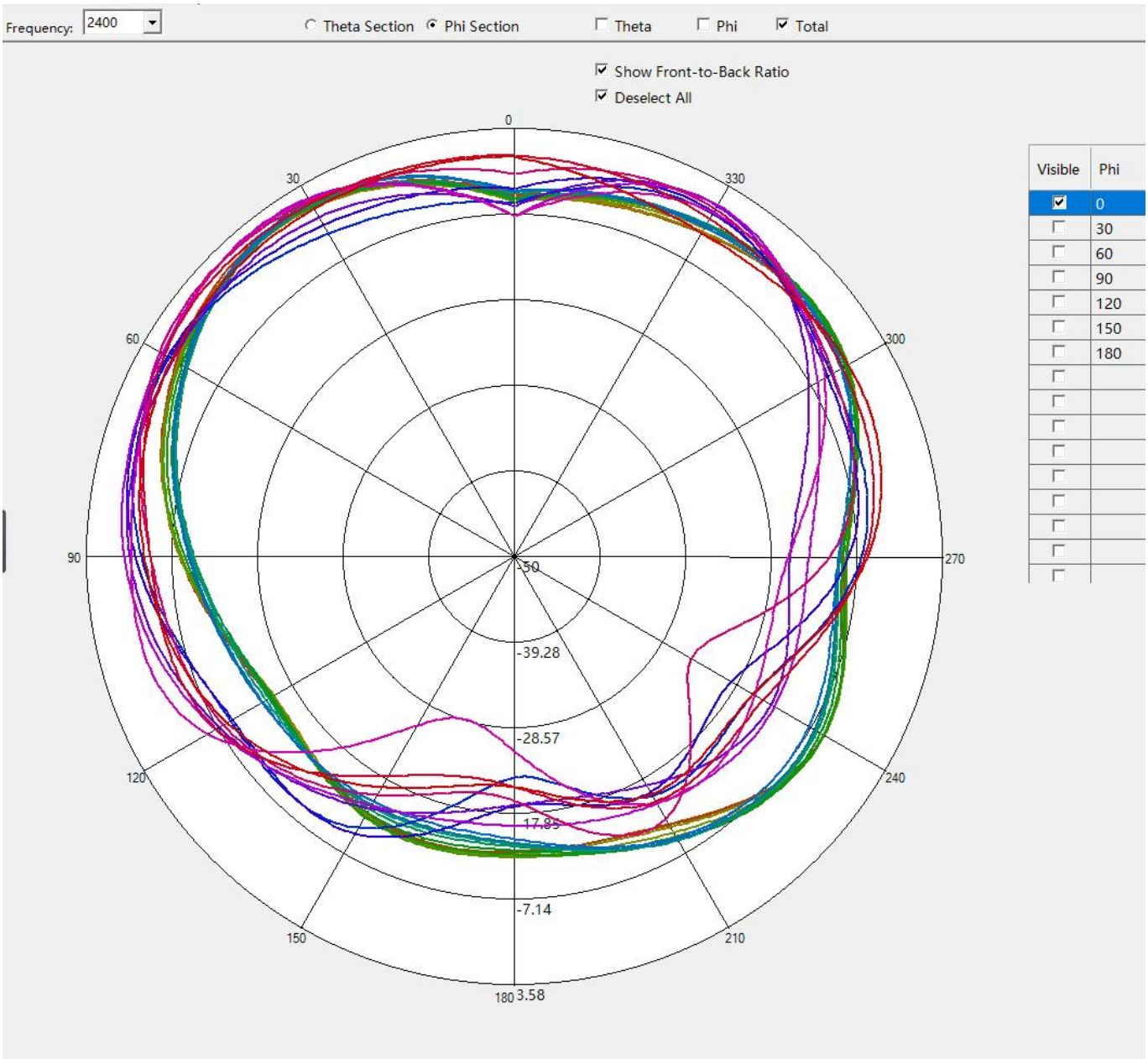
5.3Radiation pattern

5.3.1H-plane

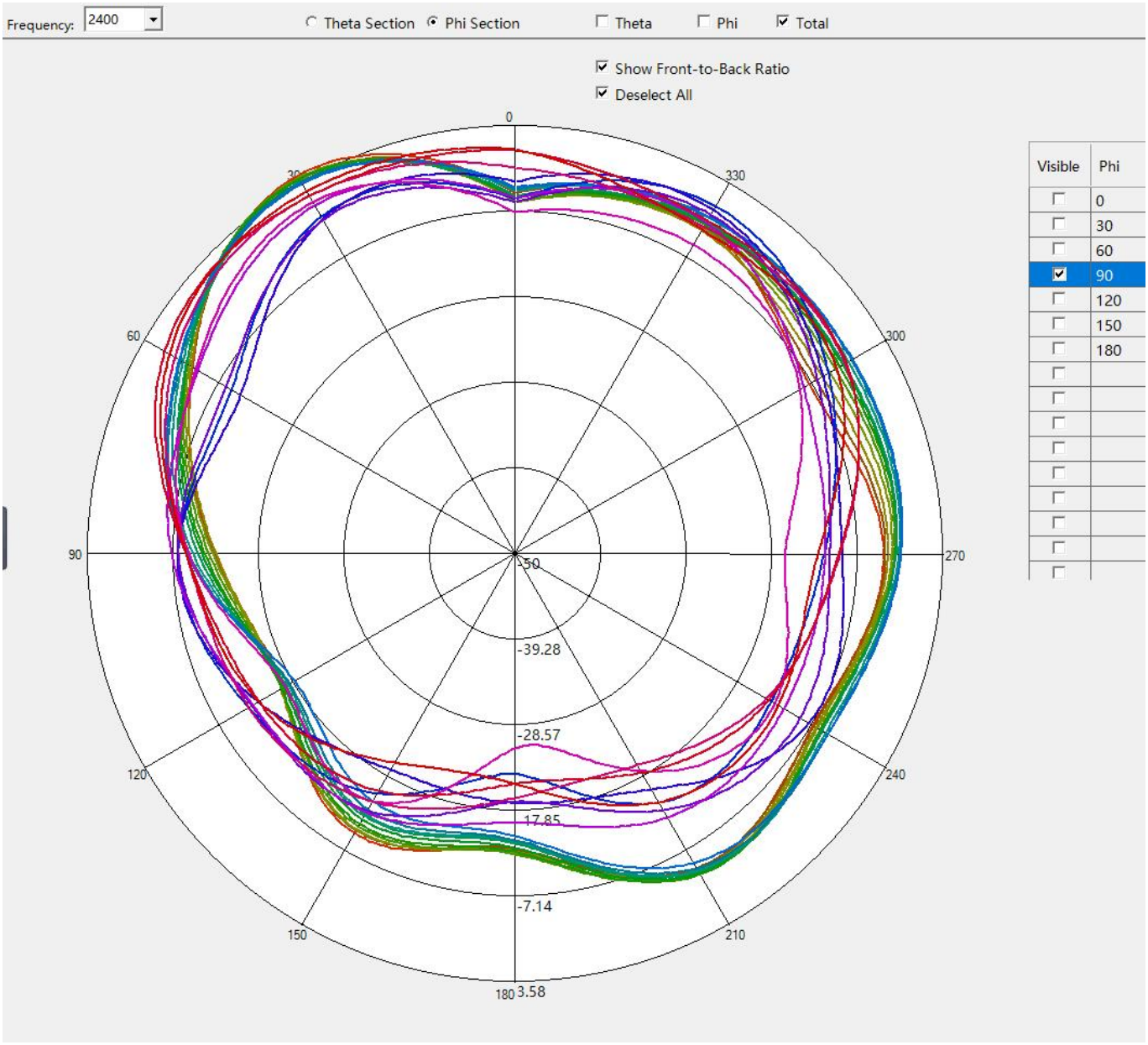


5.3.2E-plane

E1

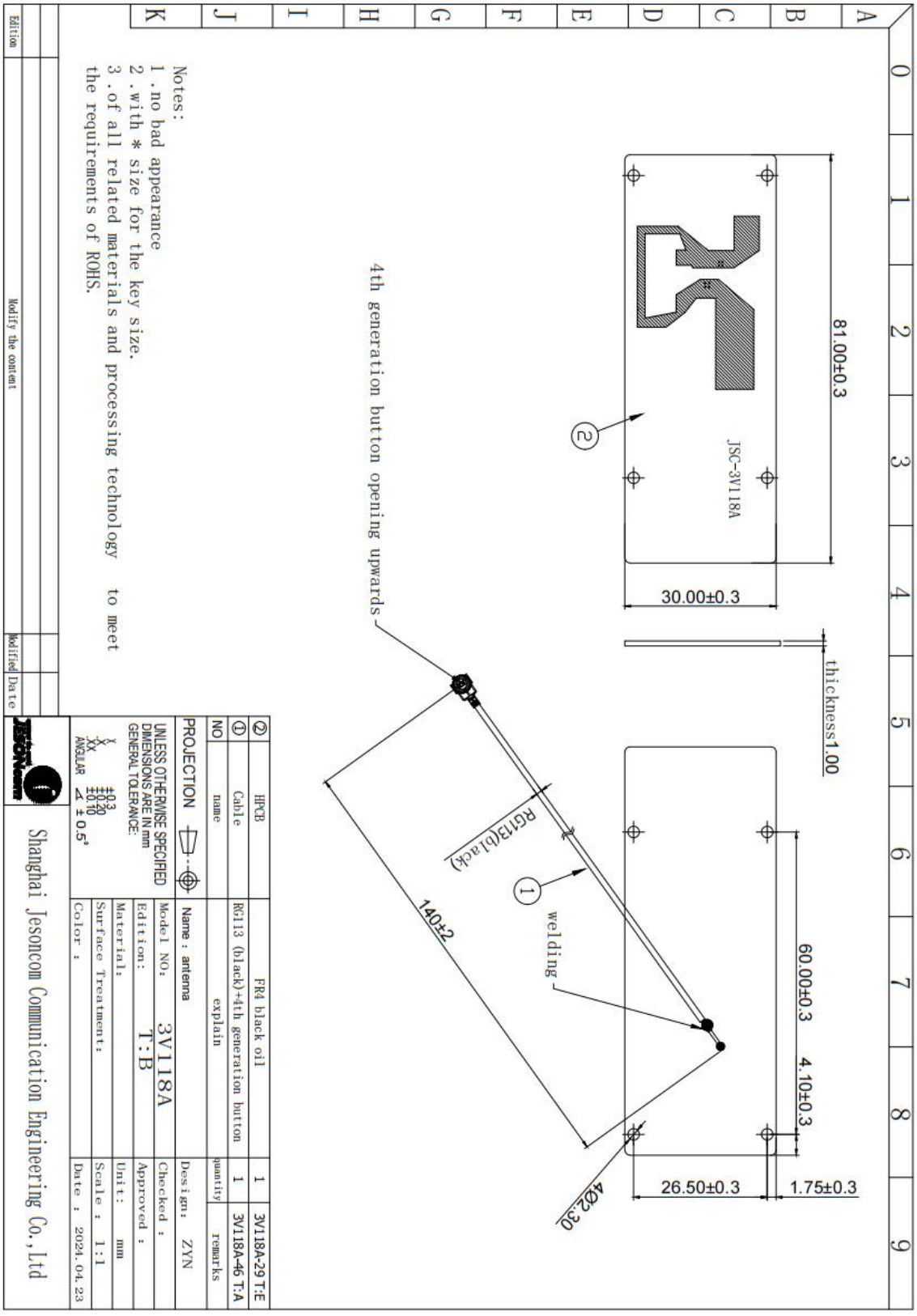


E2


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
30
330
60
300
90
270
120
240
150
210
180
-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	43.35	3.48		5150	43.15	3.36
2410	40.65	2.89		5250	45.61	4.67
2420	42.42	2.86		5350	46.53	4.21
2430	42.40	3.28		5450	42.92	4.03
2440	43.47	3.45		5550	48.05	4.95
2450	43.22	3.50		5650	47.24	4.44
2460	41.09	3.47		5750	51.78	4.70
2470	40.50	3.52		5850	46.86	4.57
2480	42.44	3.89				
2490	42.95	4.04				
2500	42.11	4.10				



9 Antenna Installation Guide