



SPECIFICATION FOR APPROVAL

CUSTOMER/PROJECT: Centerm F610-5

CUSTOMER P.N. : _____

PRODUCT NAME. : WIFI Antenna

MODEL NO. : 3V118B

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。

ADD: No.358 Liuyuan RD., Baoshan Urban Industrial District., Shanghai, P.R.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

Content

Directory	2
1 DEFINITION	4
2 Test equipment	4
3 Applicable frequency band	4
4 Basic testing items	4
4.1 Standing wave ratio diagram	5
4.2 Smith impedance diagram	5
4.3 radiation pattern	5
4.4 Gain and efficiency	5
5 Test indicators and data charts	5
5.1 Standing-wave ratio	5
5.1.1 Standing wave ratio diagram	5
5.1.2 Standing wave ratio data	6
5.2 Smith impedance circle diagram	6
5.3 Radiation pattern	7
5.3.1 H-plane	8
5.3.2 E-plane	9
5.4 Gain and efficiency&TRP/TIS	10-12
6 Environmental treatment suggestions	12
7 Impedance matching requirements	12
8 Antenna Outline Drawing	13
8.1 Antenna size diagram	13

8.2 Feeder size diagram	13
8.3 RF terminal size diagram	13
9 Antenna Installation Guide	14
9.1 Antenna installation instructions	14
9.2 Description of feeder routing	14

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

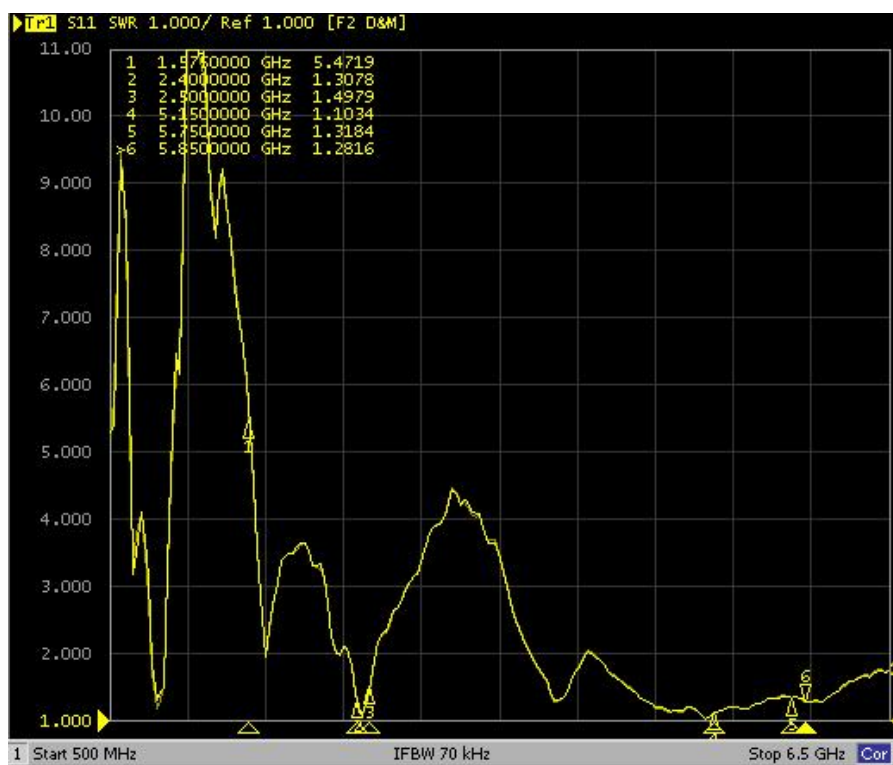
4.3 Radiation pattern

4.4 Gain and efficiency

5 Test indicators and data charts

5.1 standing-wave ratio

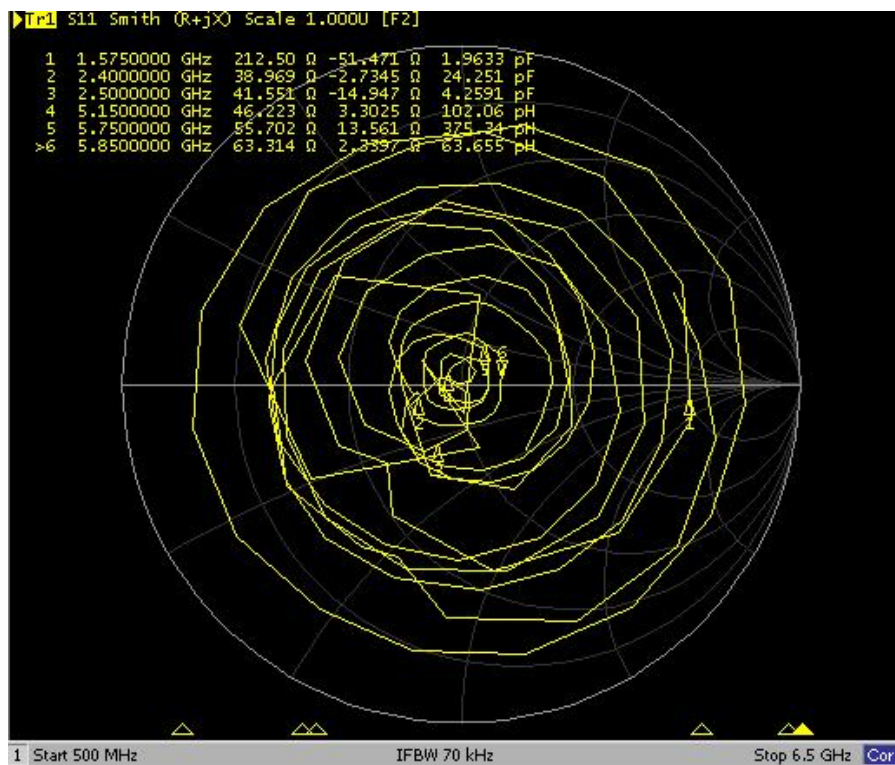
5.1.1 Standing wave ratio diagram



5.1.2 Standing wave ratio data

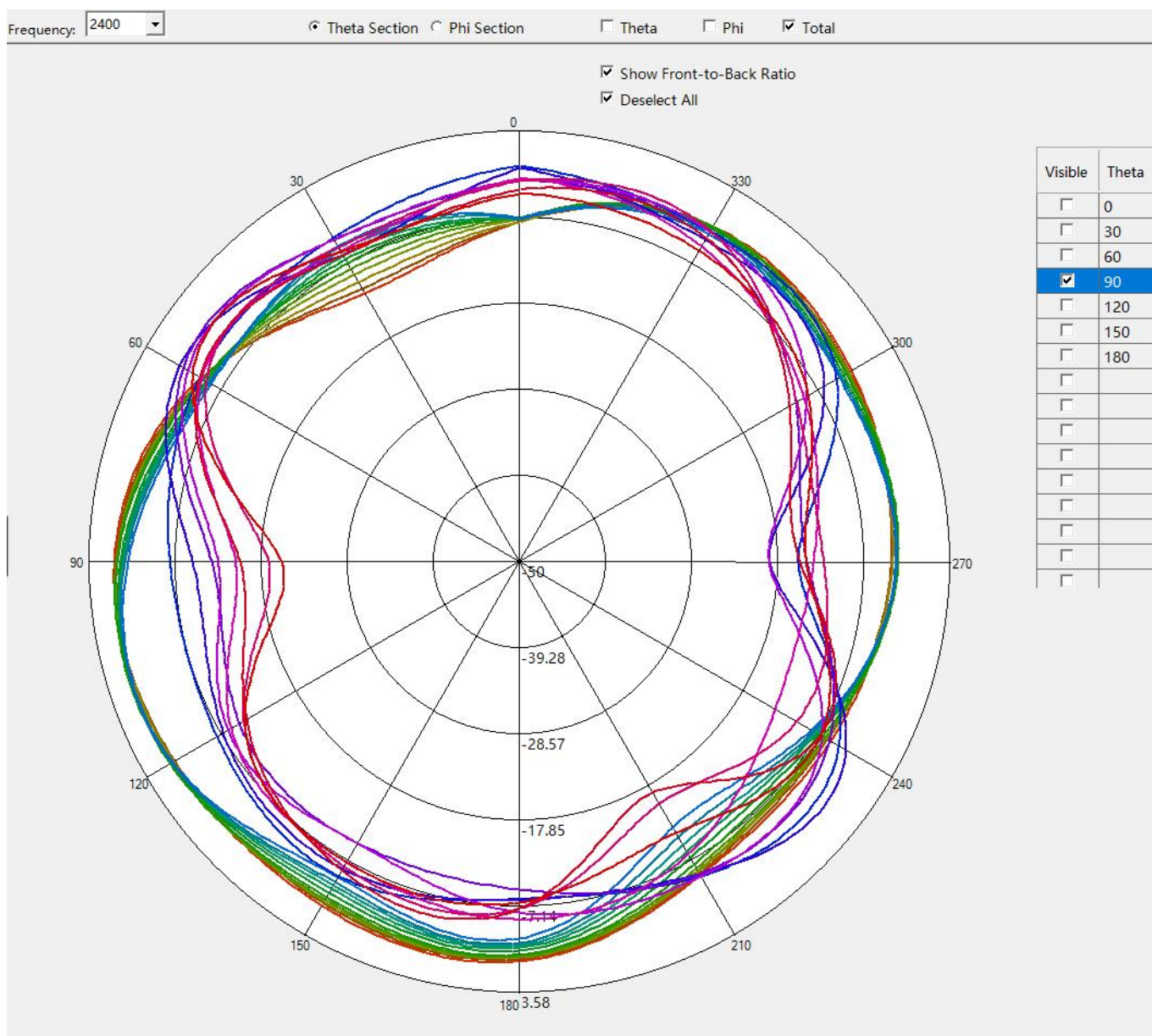
Freq/MHz	2400	2500	5150	5750	5850
VSWR	1.3	1.4	1.1	1.3	1.2

5.2 Smith impedance circle diagram



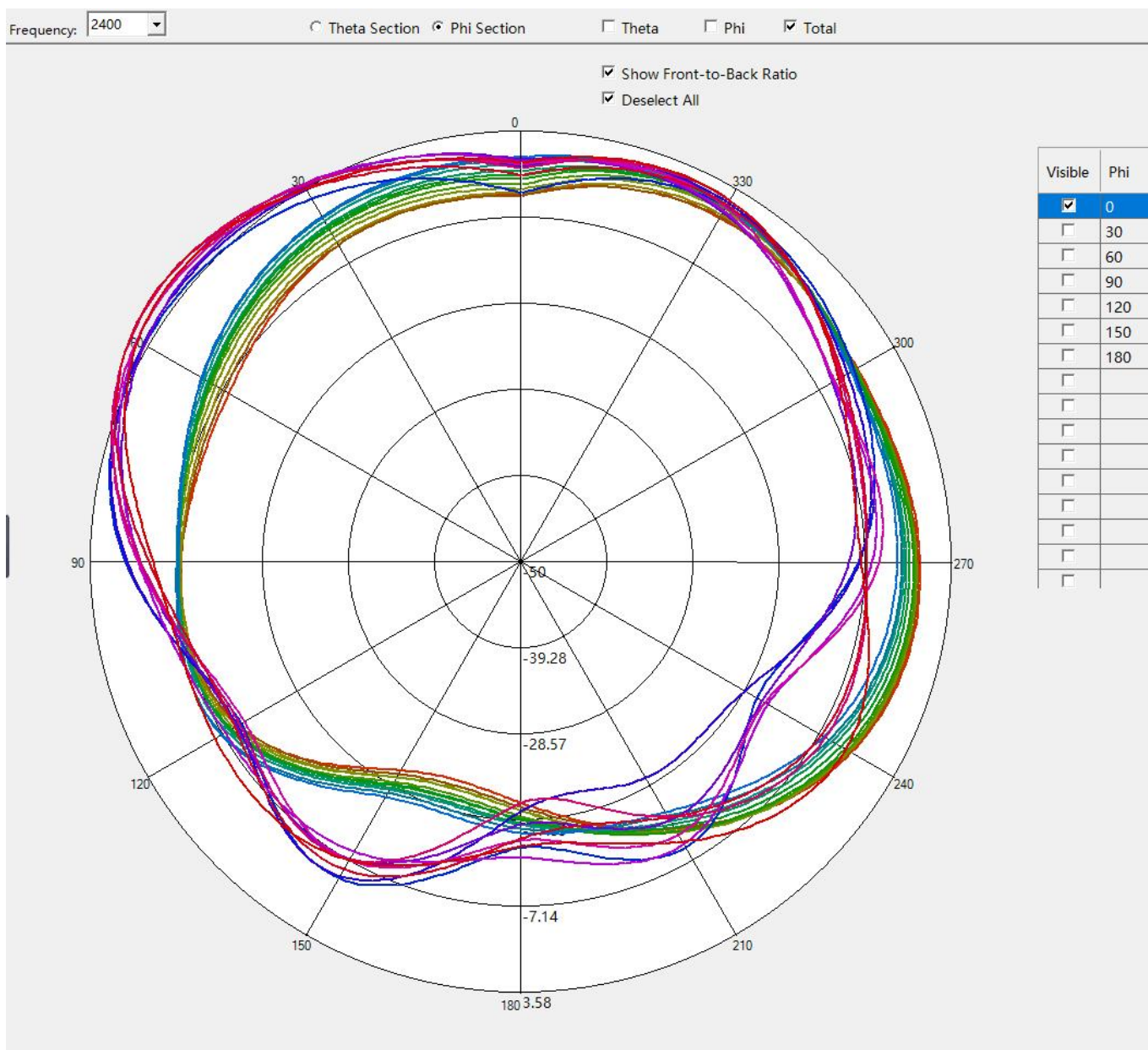
5.3 Radiation pattern

5.3.1 H-plane

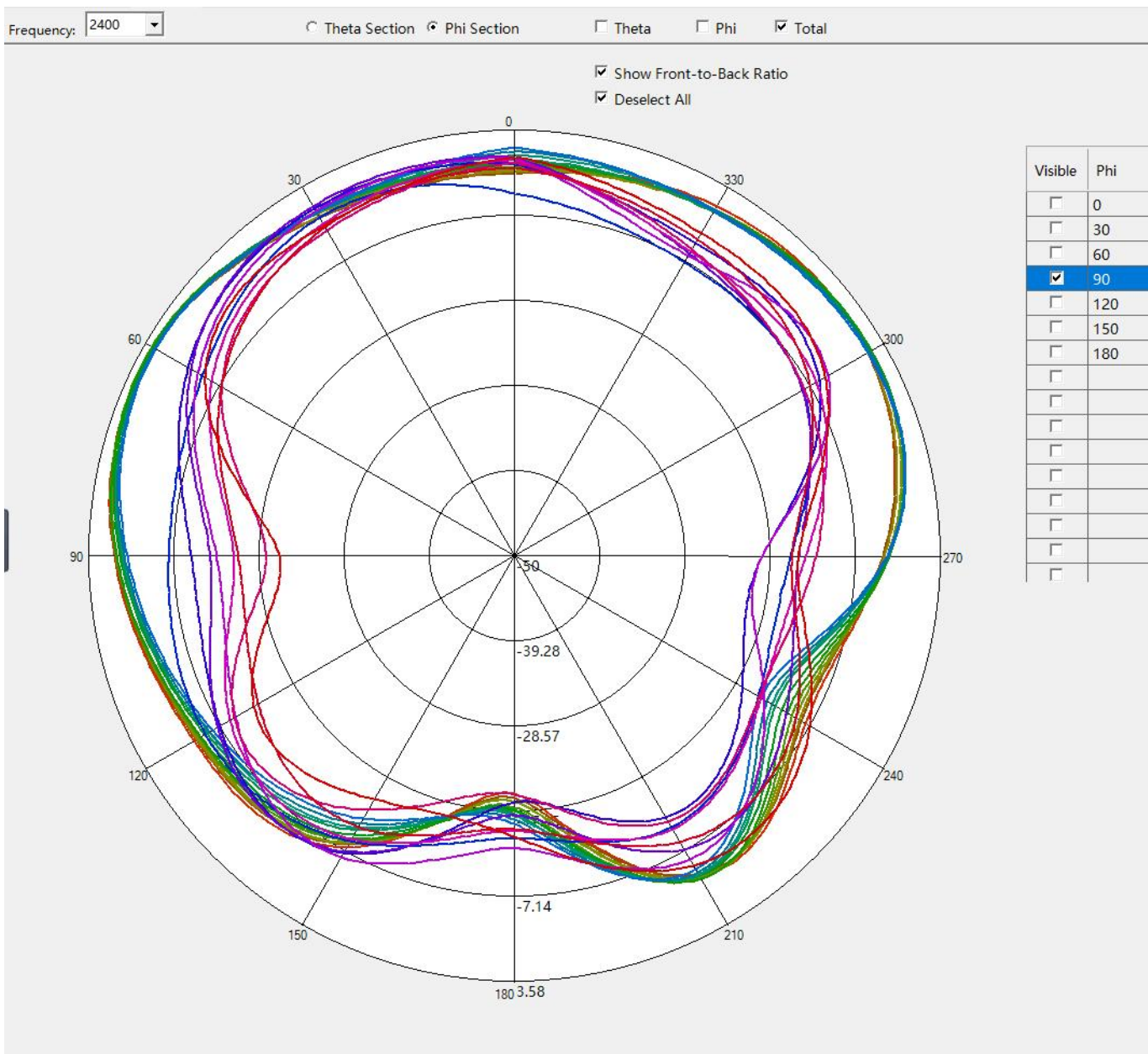


5.1.3 E-plane

E1

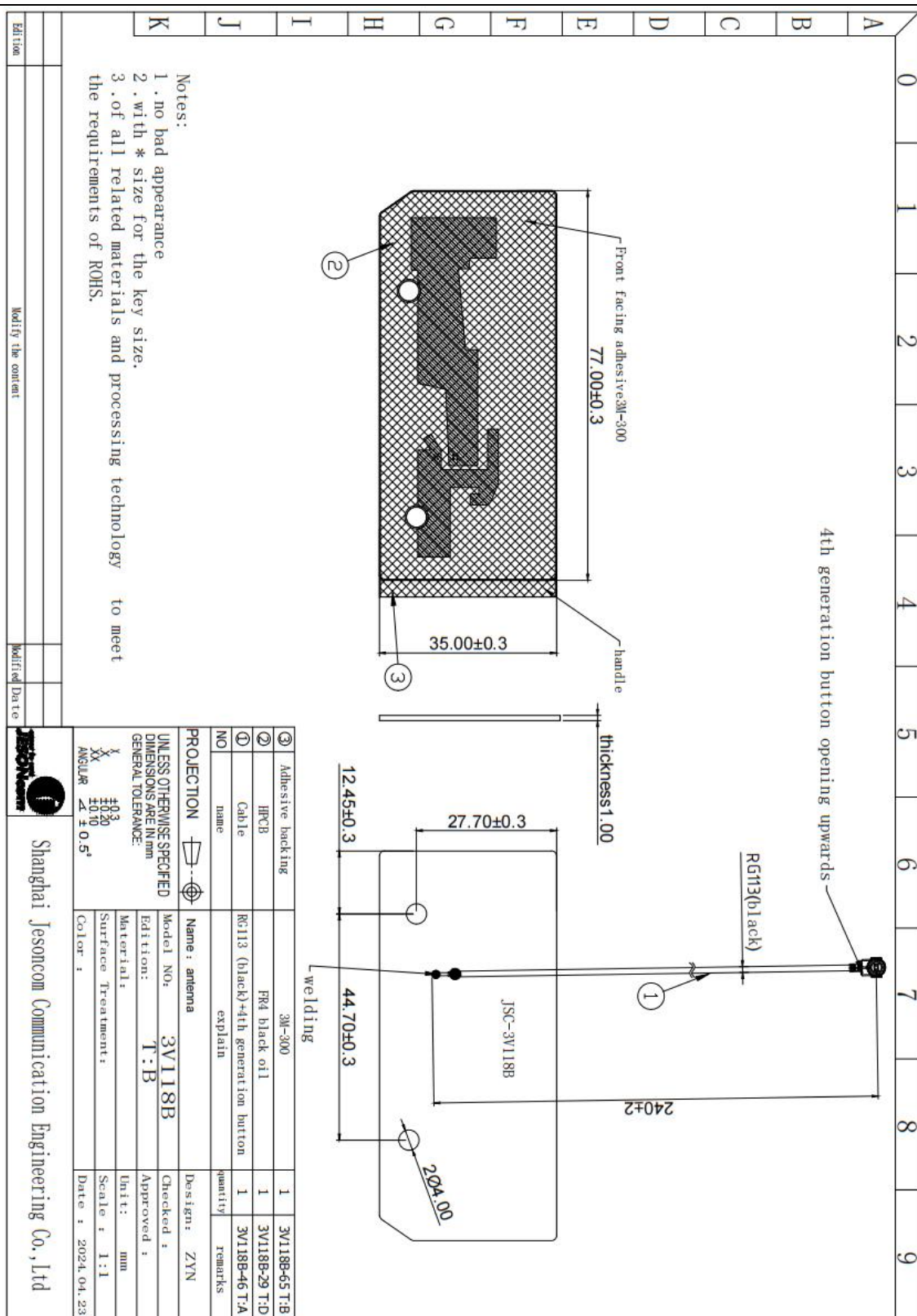


E2



5.4 Gain and efficiency

Freq (MHZ)	Eff (%)	GAIN (DBi)		Freq (MHZ)	Eff (%)	GAIN (DBi)
2400	51.49	3.59		5150	50.61	4.67
2410	50.35	3.16		5250	51.53	4.21
2420	51.14	3.14		5350	50.92	4.03
2430	50.44	3.01		5450	53.05	4.95
2440	52.20	2.91		5550	52.24	4.44
2450	53.55	2.97		5650	56.78	4.70
2460	50.47	2.98		5750	51.86	4.57
2470	51.47	3.02		5850	54.31	5.19
2480	51.14	3.38				
2490	52.12	3.51				
2500	51.15	3.36				



9 Antenna Installation Guide