

SPECIFICATION FOR APPROVAL

CUSTOMER/PROJECT: YAN JI

CUSTOMER P.N. :

PRODUCT NAME. : LTE Antenna

MODEL NO. : 31Y008A

SPECIFICATION :

VERSION	DATE	REVISION DESCRIPTION
T:A	2026-2-5	newly added

SUPPLIER AUTHORIZED SIGNATURE		
PREPARED	CHECKED	APPROVED
JENNY		

CUSTOMER AUTHORIZED SIGNATURE			
Project		Quality	

Please return to us one copy of "SPECIFICATION FOR APPROVAL" with your approved signature.

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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。

System	up
WIFI (2. 4G)	2412MHz~2483MHz
5. 8G	5725MHz~5850MHz

4 Basic testing items

4.1 Standing wave ratio diagram

4.2 Smith impedance diagram

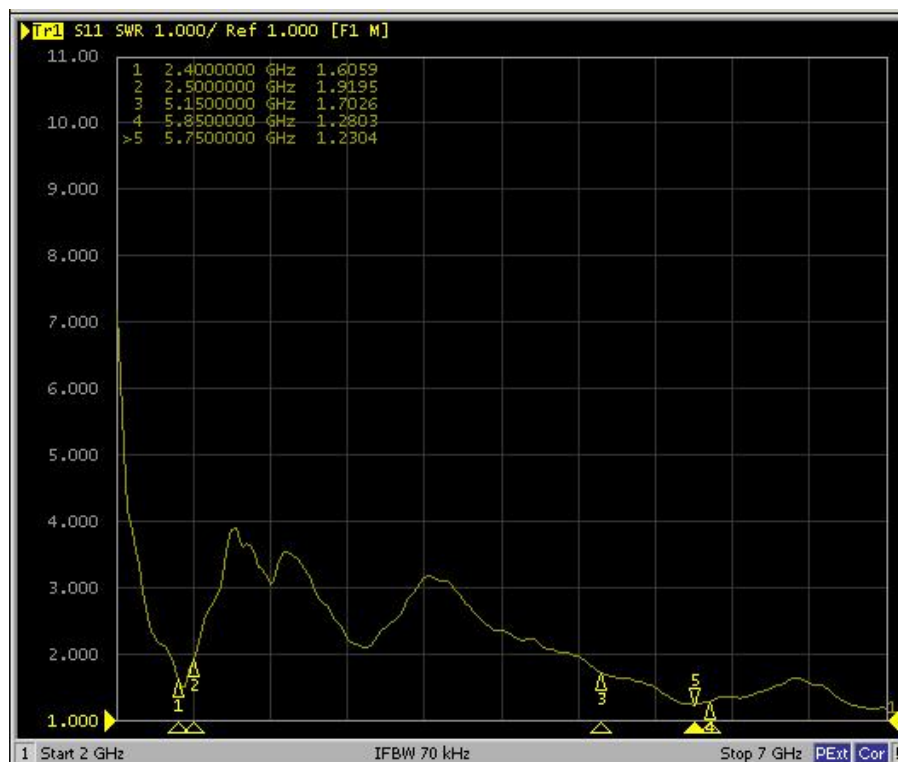
4.3 Radiation pattern

4.4 Gain and efficiency

5 Test indicators and data charts

5.1 standing-wave ratio

5.1.1 Standing wave ratio diagram

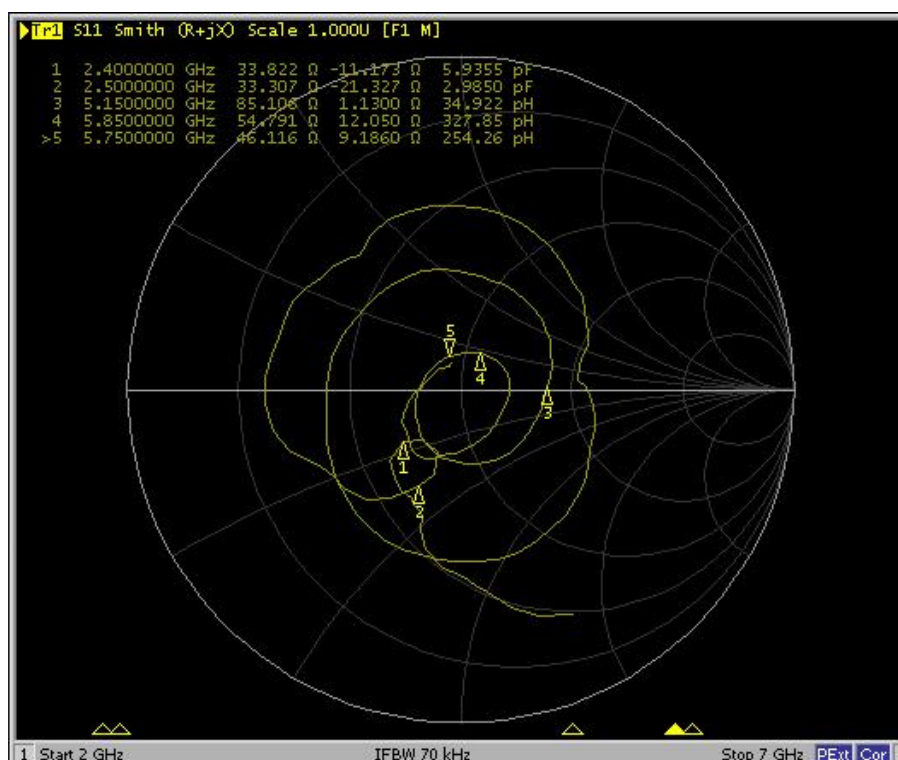


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5.1.2 Standing wave ratio data

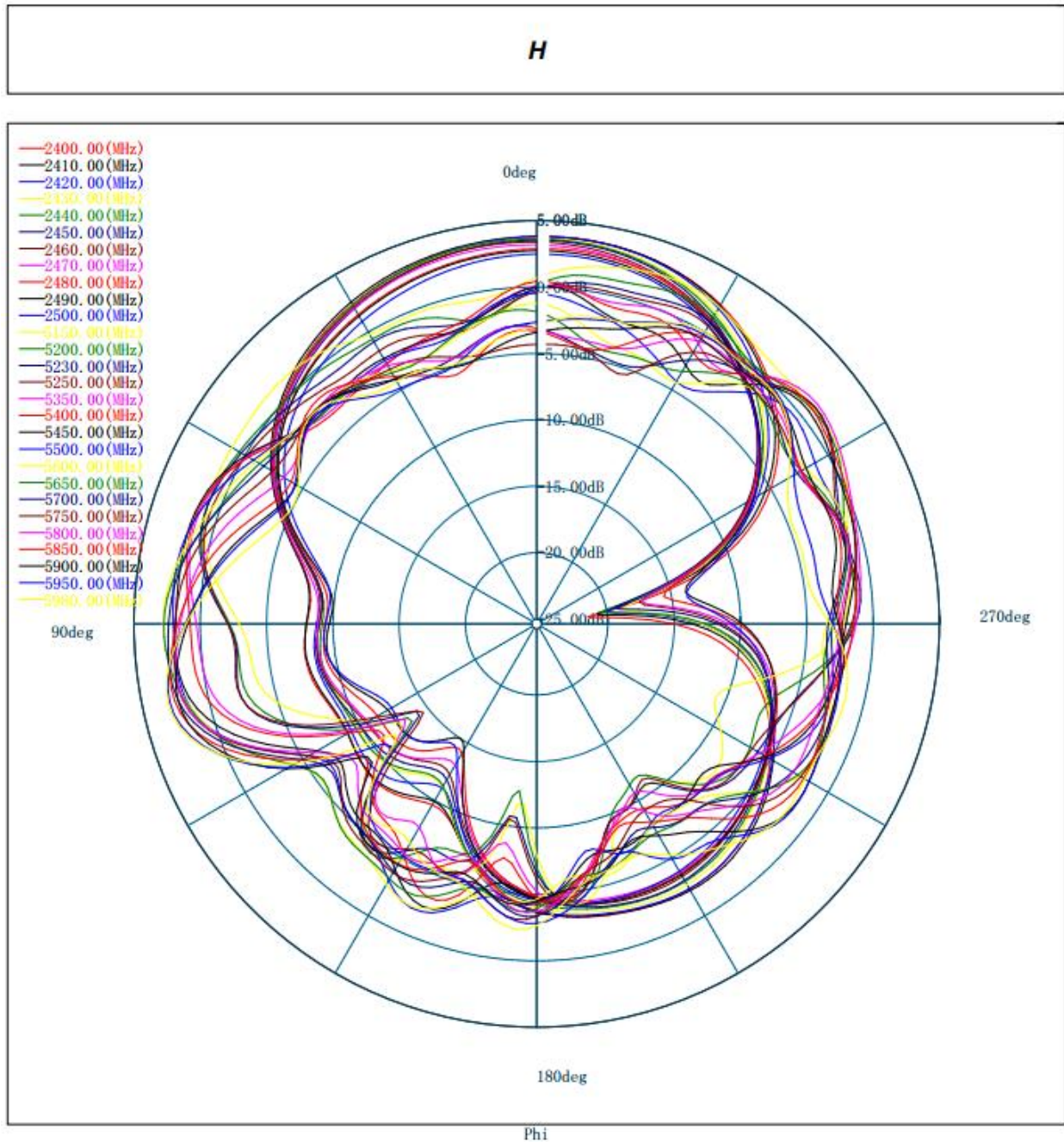
Freq/MHz	2400	2500	5150	5850
VSWR	1.6	1.9	1.7	1.2

5.2 Smith impedance circle diagram



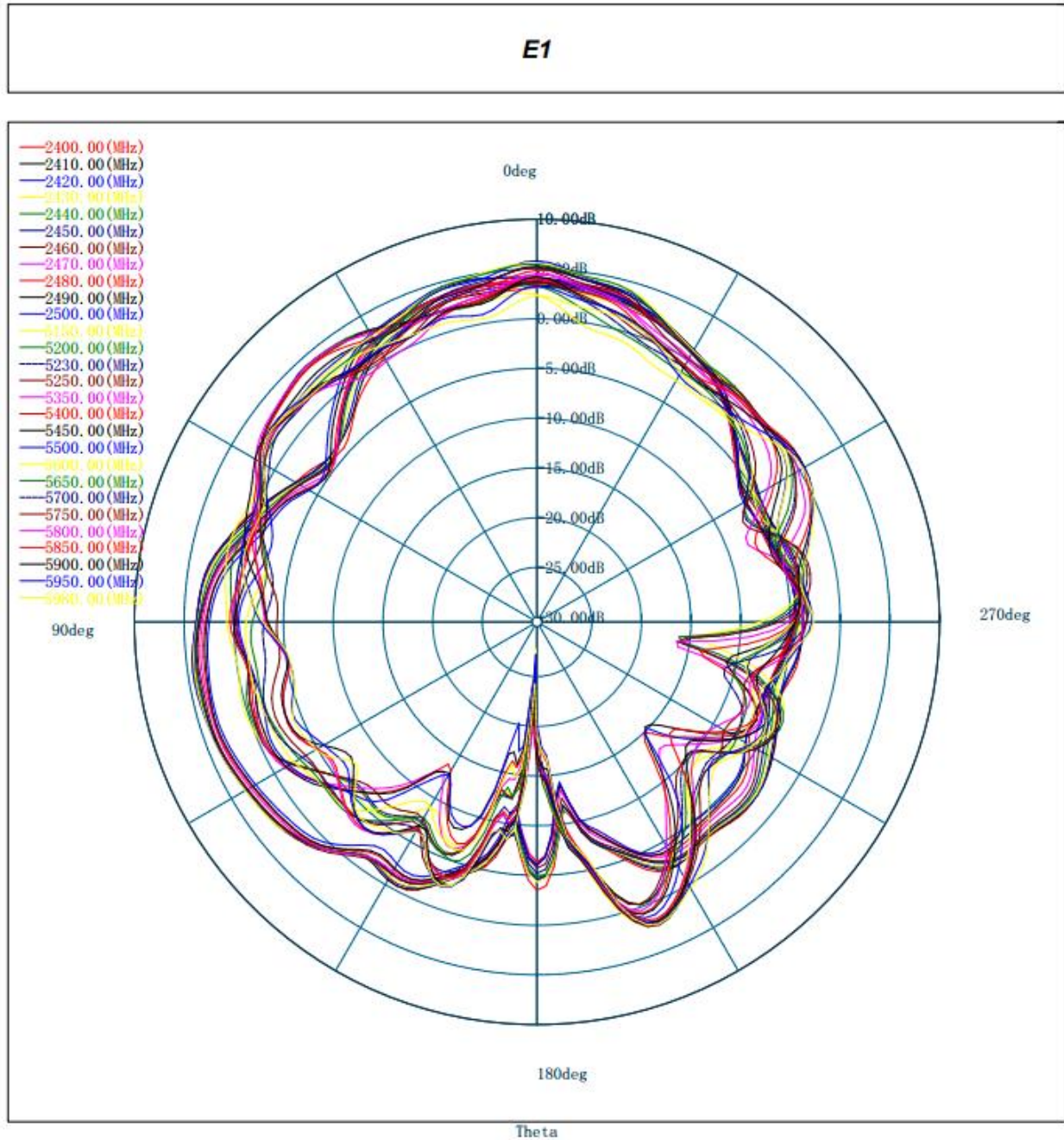
5.3 Radiation pattern

5.3.1 H-plane

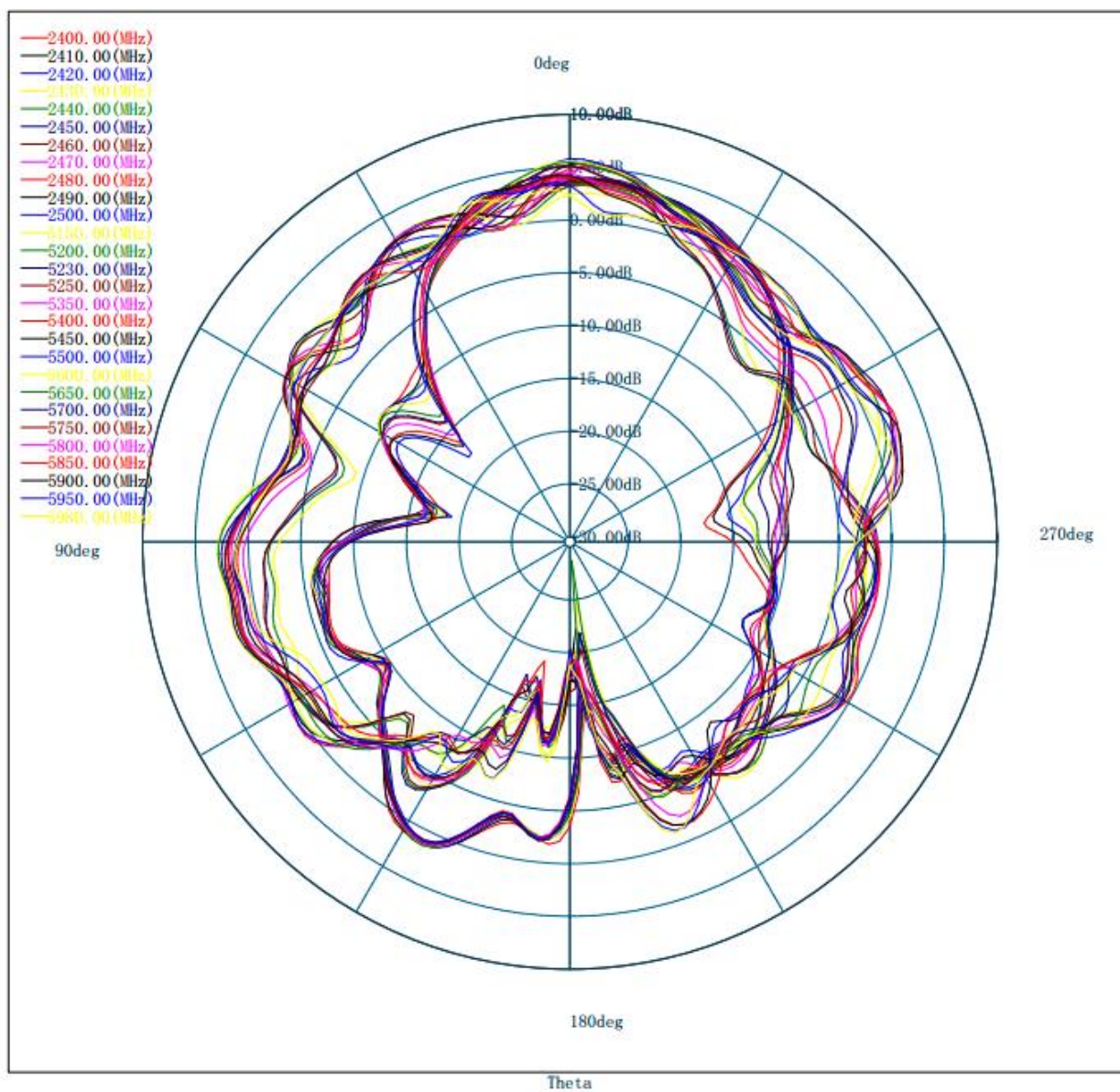


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5.3.2E-plane



E2

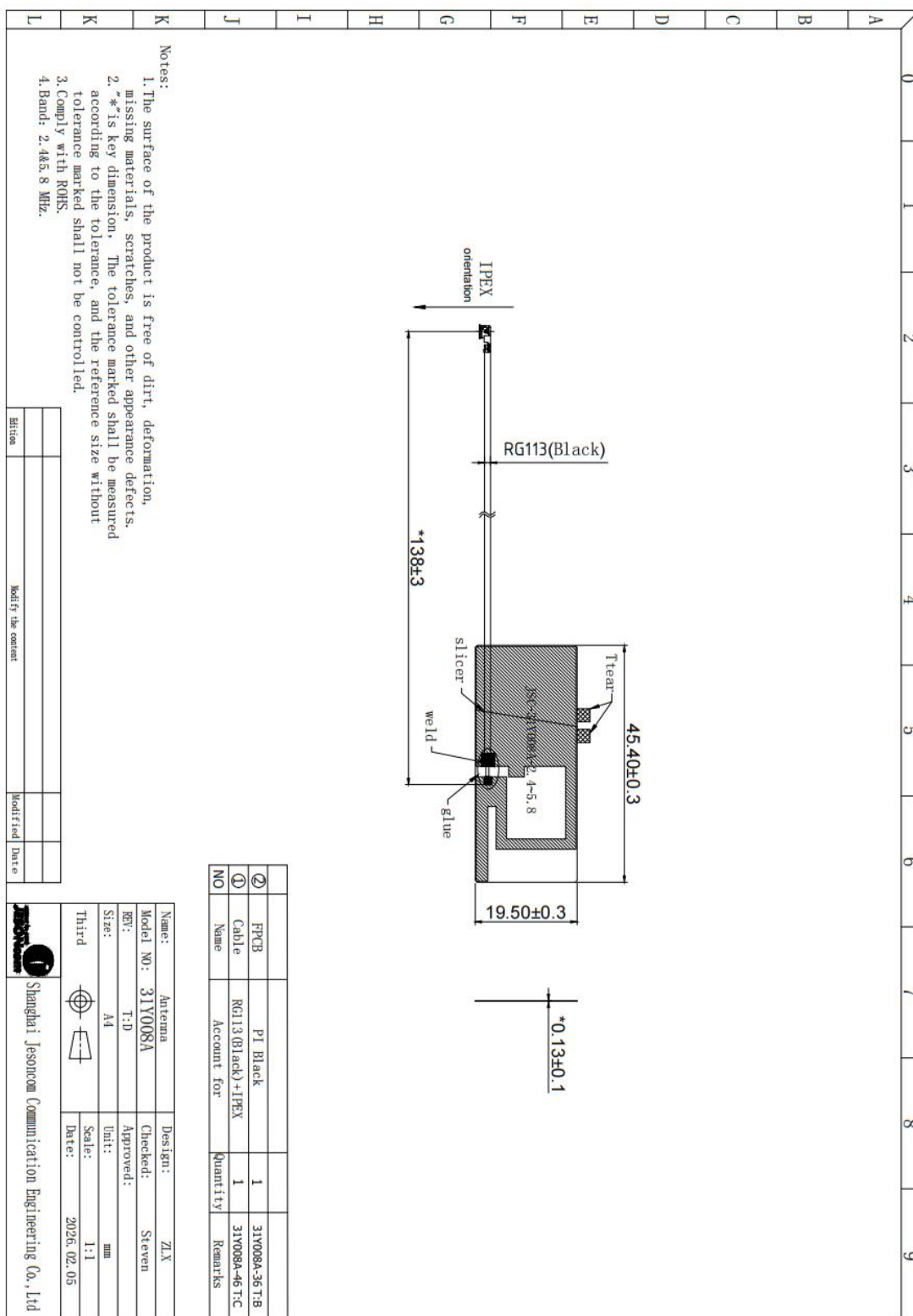


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5.4 Gain and efficiency

Frequency [Hz]	Efficiency	Gain [dBi]
2400000000	64%	4.541851474
2430000000	66%	4.442285218
2450000000	64%	4.253832606
2470000000	62%	4.047472834
2490000000	61%	4.475234388
2500000000	60%	4.708549215
5150000000	69%	4.059236887
5230000000	68%	4.211194875
5350000000	69%	5.052012582
5450000000	72%	5.423823426
5600000000	73%	5.577196414
5700000000	70%	5.136757069
5750000000	70%	5.115816367
5800000000	68%	4.504437564
5900000000	68%	4.461983349
5980000000	65%	3.959211683

6 Antenna Outline Drawing



7 Antenna Installation Guide

7.1 Antenna installation and feeder routing instructions

8 Other