SPECIFICATION FOR APPROVAL

CUSTOMER/PROJECT： _____

CUSTOMER P.N： _____

PRODUCT NAME： **2.4&5G Mushroom Antenna**

MODEL NO： **3A050F**

SPECIFICATION： _____

SUPPLIER AUTHORIZED SIGNATURE		
PREPARED	CHECKED	APPROVED
JENNY		

CUSTOMER AUTHORIZED SIGNATURE			
PM		QE	

P lea se ret urn to us one copy of "SPECIFICATION FOR APPROVAL"with your approved signature.

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1 Noun explanation

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

network analyzer
Agilent8960
SATIMO64 chamber

3 Working frequency band

The yellow Identification is the using band

band	uplink	downlink
2.4G	2400MHz～2500MHz	
5G	5150MHz～5850MHz	

4 Test project

4.1 VSWR plot

4.2 Simth plot

4.3 Radiation pattern

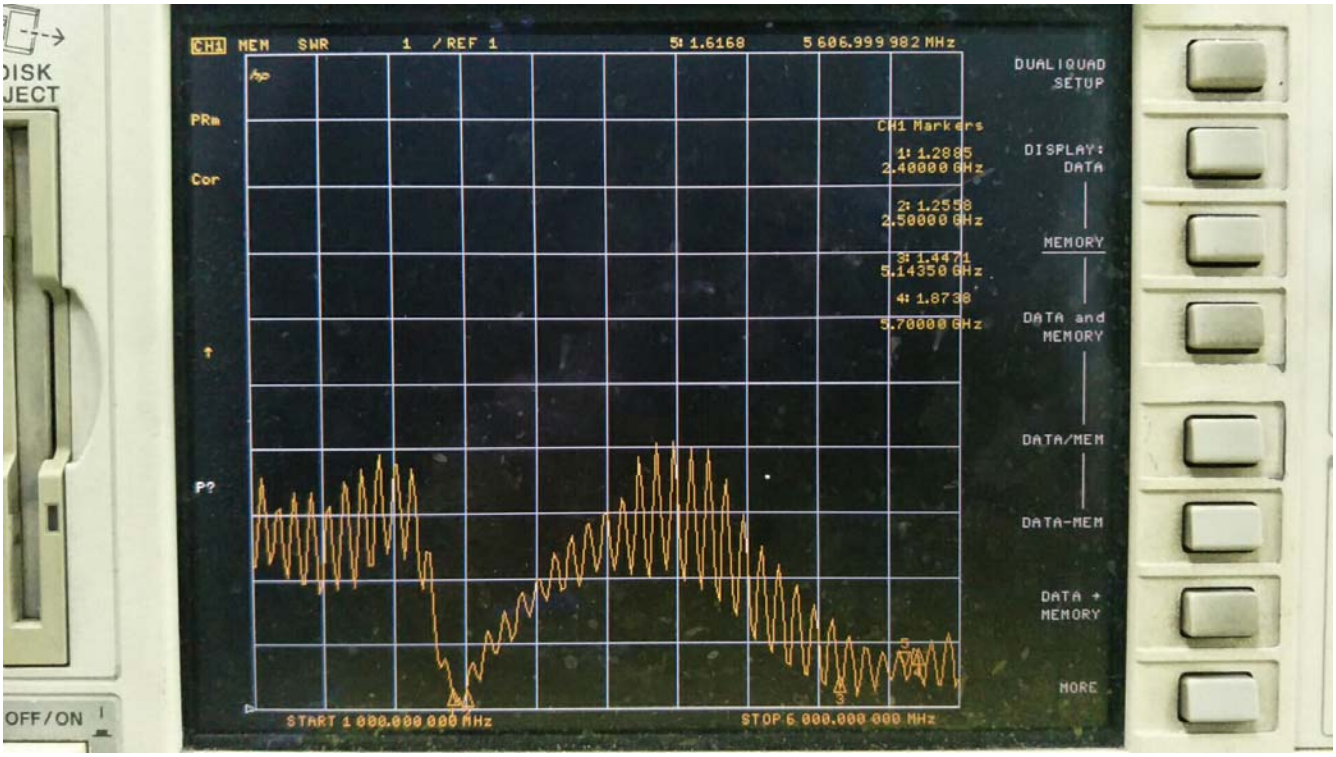
4.4 Gain & Efficiency

4.5 TRP&TIS

5 Antenna parameter

5.1 VSWR

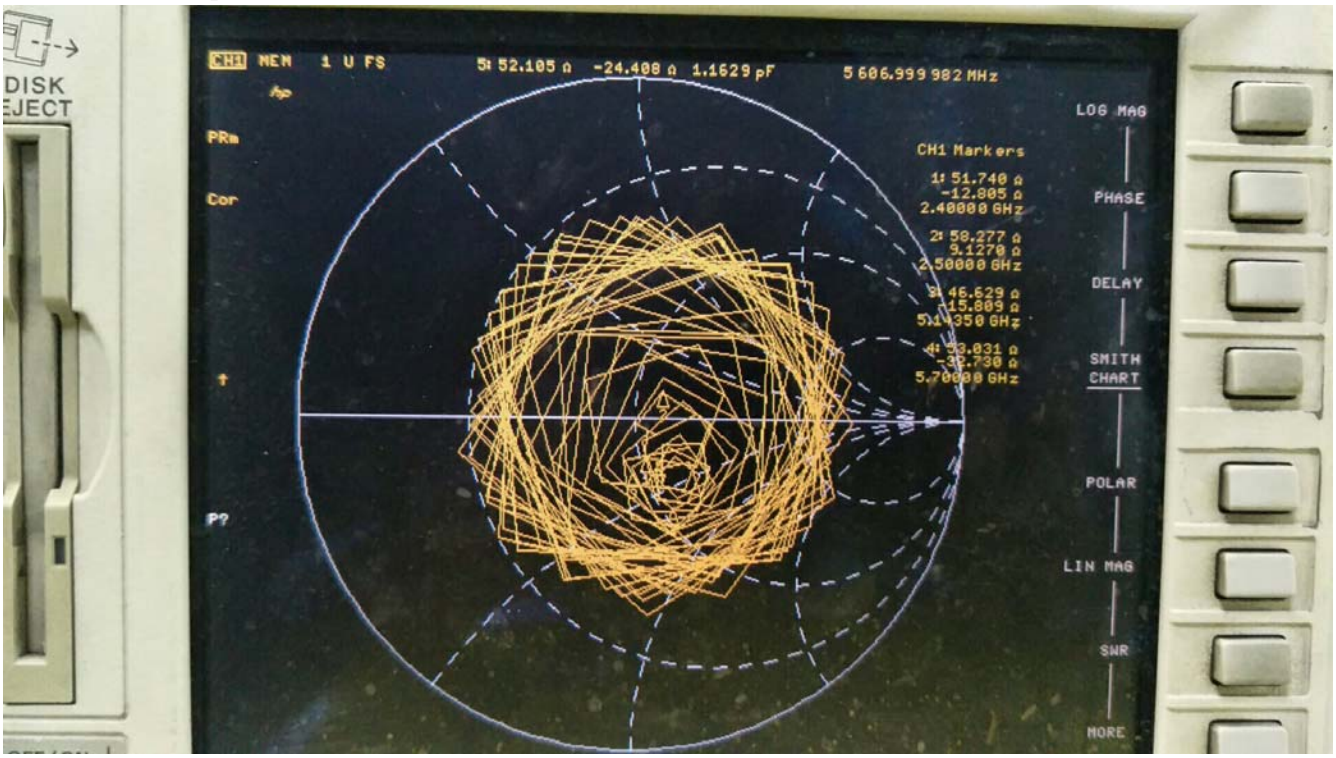
5.1.1 VSWR plot



5.1.2 VSWR data

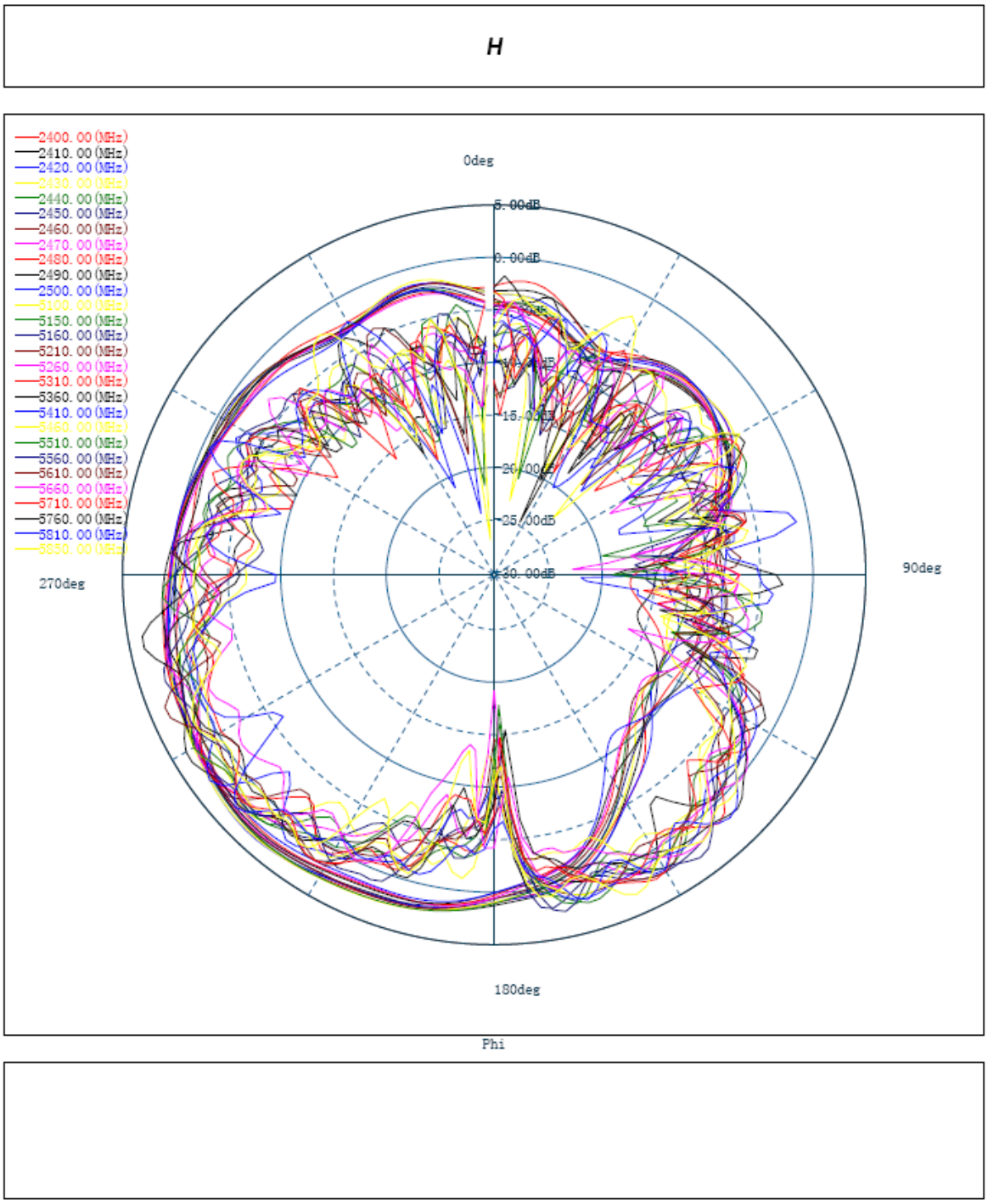
Freq/MHz	2400	2500	5100	5700
VSWR	1.2	1.2	1.4	1.8

5.2 Simth plot



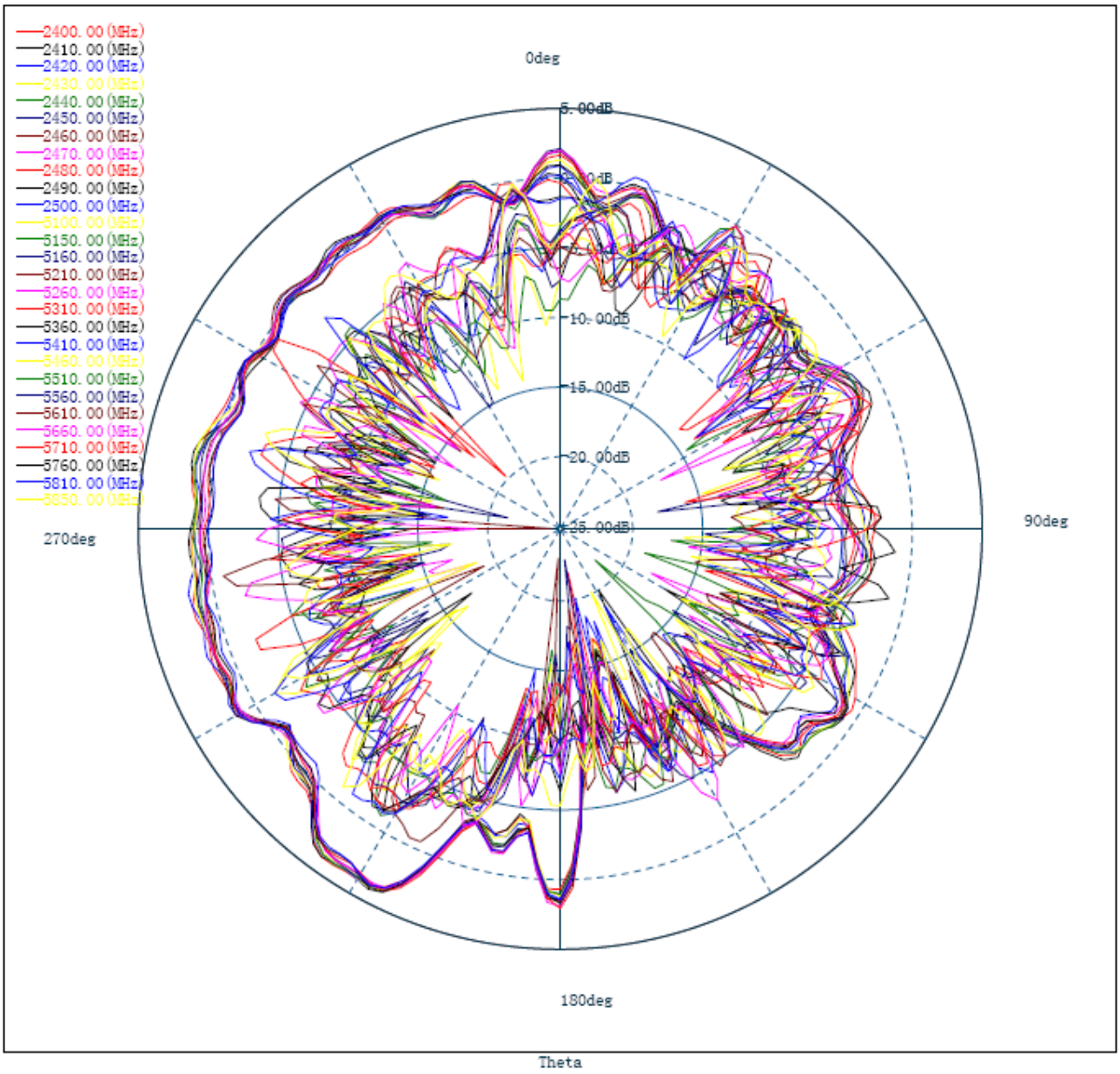
5.3 Radiation pattern

5.3.1 H-plane

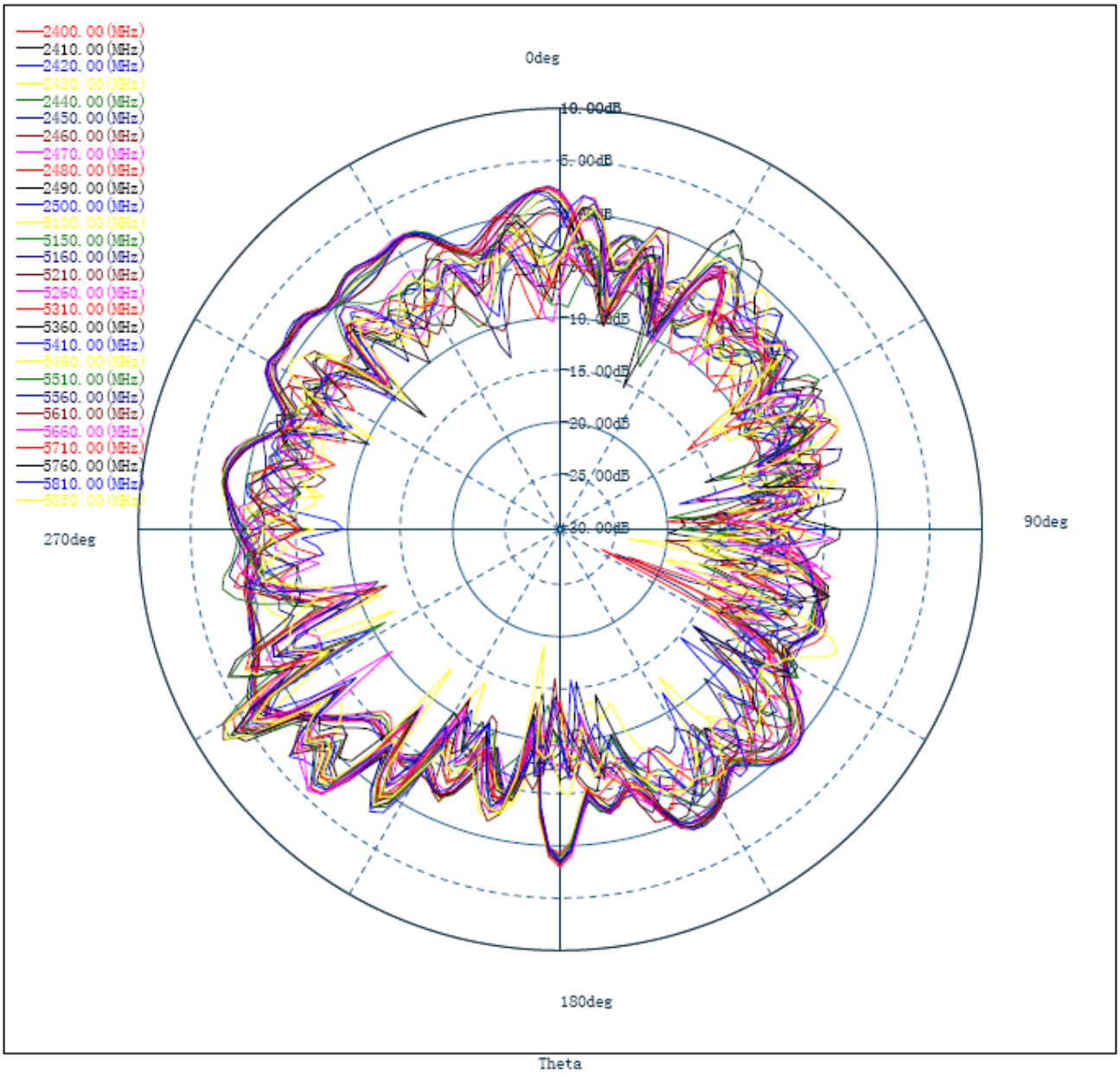


5.3.2 E-plane

E1



E2


2400.00(MHz)
2410.00(MHz)
2420.00(MHz)
2430.00(MHz)
2440.00(MHz)
2450.00(MHz)
2460.00(MHz)
2470.00(MHz)
2480.00(MHz)
2490.00(MHz)
2500.00(MHz)
5100.00(MHz)
5150.00(MHz)
5160.00(MHz)
5210.00(MHz)
5260.00(MHz)
5310.00(MHz)
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5560.00(MHz)
5610.00(MHz)
5660.00(MHz)
5710.00(MHz)
5760.00(MHz)
5810.00(MHz)
5850.00(MHz)
0deg
90deg
180deg
270deg
10.00dB
5.00dB
15.00dB
20.00dB
25.00dB
30.00dB

Theta

5.4 UGain & Efficiency

Frequency [MHz]	Efficiency	Gain [dBi]
2400	64%	4.179387
2410	65%	4.23549
2420	66%	4.203856
2430	67%	4.416081
2440	67%	4.281232
2450	66%	4.210731
2460	66%	4.423337
2470	66%	4.632001
2480	66%	4.265686
2490	67%	4.430046
2500	66%	4.258506
5100	53%	4.065487
5150	59%	5.838038
5210	51%	5.047396
5260	56%	5.292868
5310	58%	5.3598
5360	56%	5.187105
5410	61%	6.113821
5510	60%	5.367092
5560	57%	5.42973
5610	61%	5.043188
5660	56%	5.429487
5710	60%	4.962898
5760	63%	5.232216
5810	58%	4.939093
5850	61%	4.457408

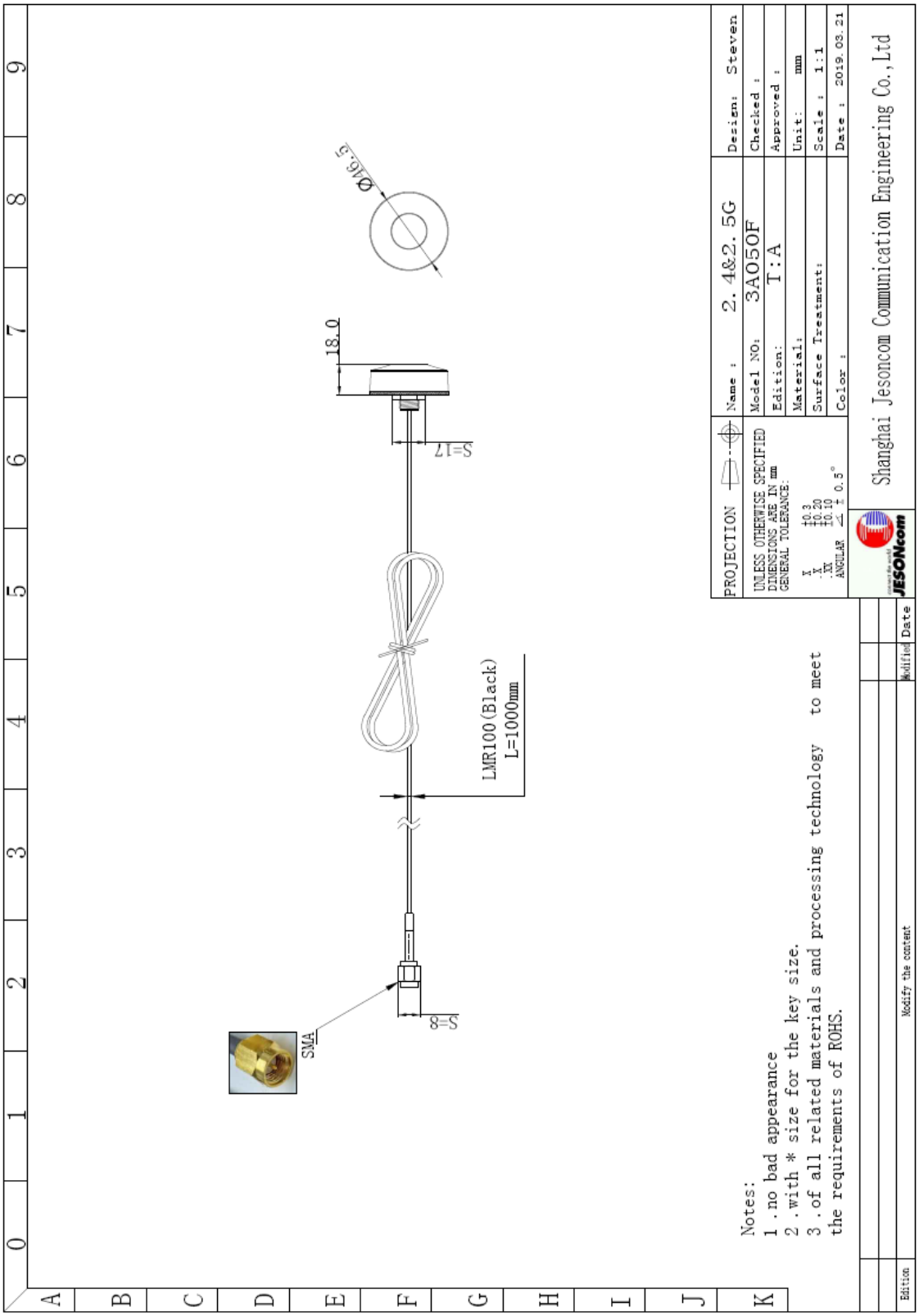
6 Environmental treatment suggestions

Environment does not need treatment

7 Impedance matching

The matching circuit has not been changed

8 Antenna plan



9 Antenna installation guide

9.1 Antenna installation instructions

9.2

10 Other