

SPECIFICATION FOR APPROVAL

CUSTOMER/PROJECT: _____

CUSTOMER P.N: _____

PRODUCT NAME: WIFI ANT

MODEL NO: 26B007A-41

SPECIFICATION: _____

SUPPLIER AUTHORIZED SIGNATURE		
PREPARED	CHECKED	APPROVED
WDH		

CUSTOMER AUTHORIZED SIGNATURE			
PM		QE	

Please return 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	
WIFI (2.4G)	2412MHz~2483MHz

4 Test project

4.1 VSWR plot

4.2 Smith plot

4.3 Radiation pattern

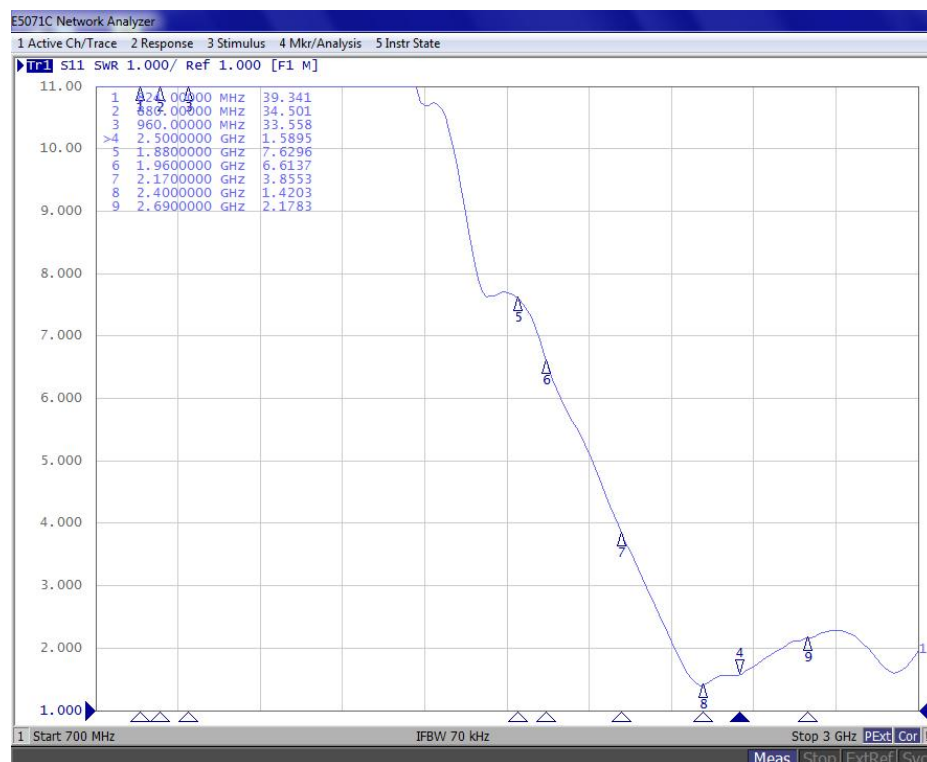
4.4 Gain & Efficiency

4.5 TRP&TIS

5 Antenna parameter

5.1 VSWR

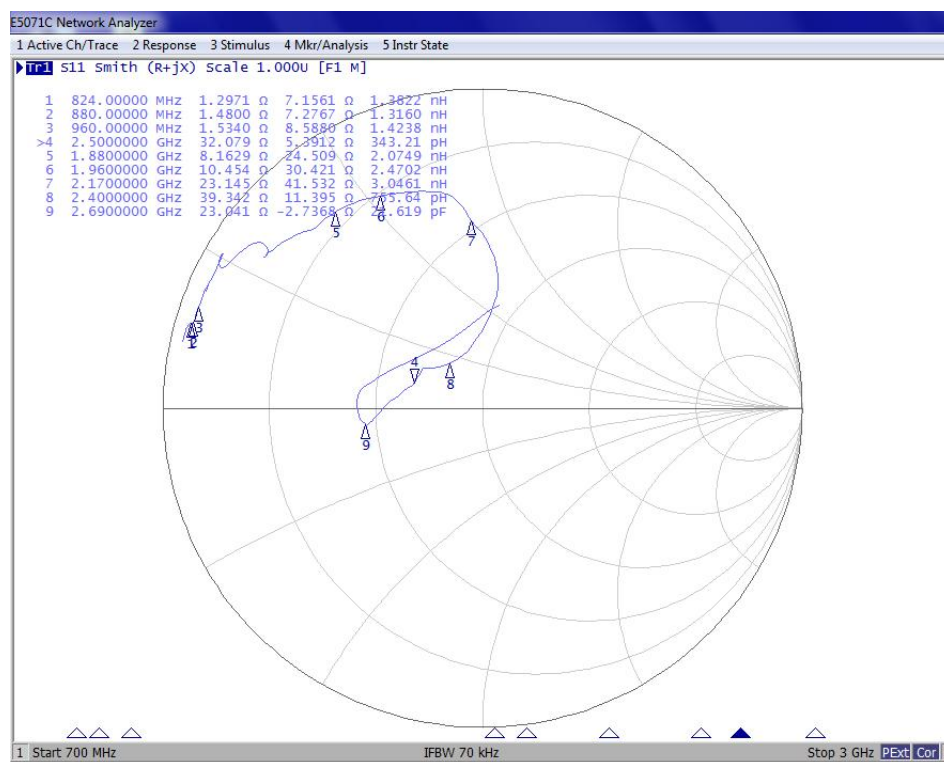
5.1.1 VSWR plot



5.1.2 VSWR data

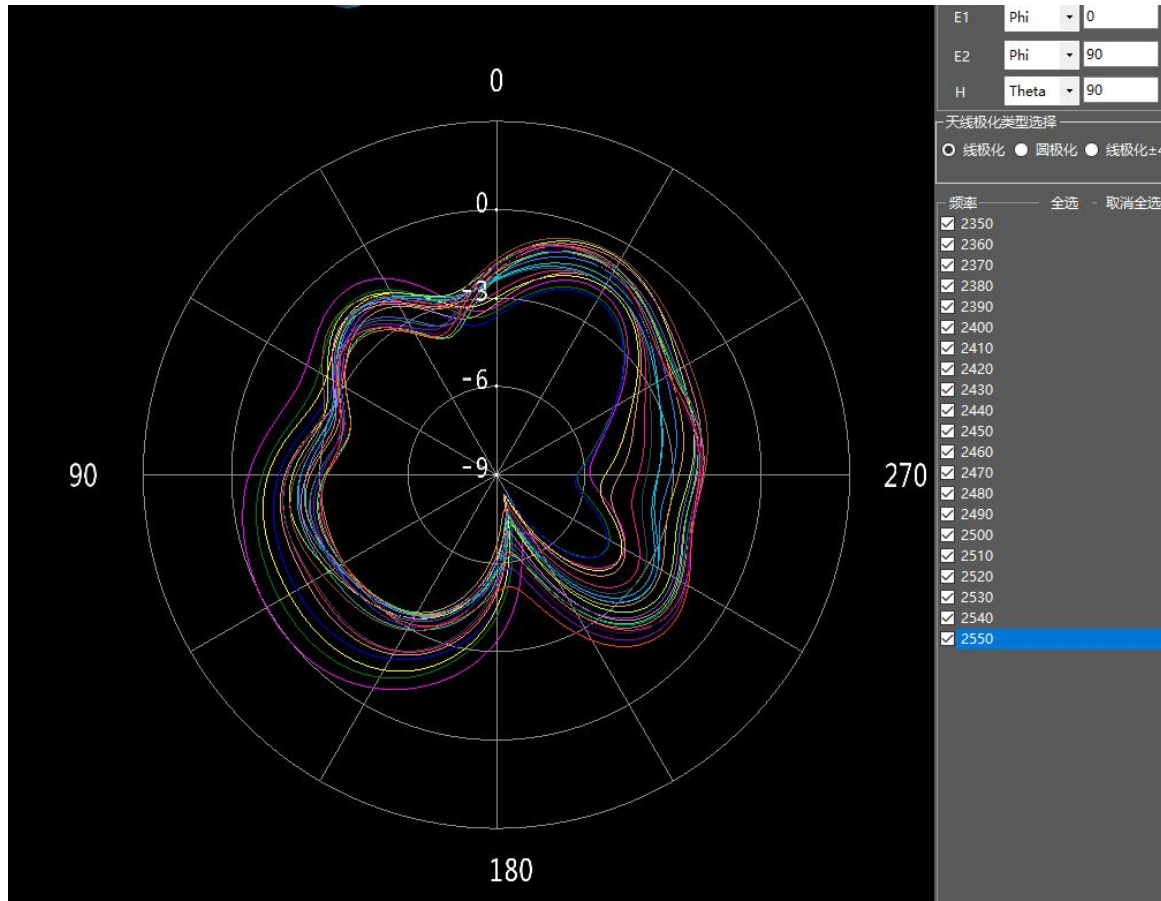
Freq/MHz	2400	2500
VSWR	1.4	1.5

5.2 Smith plot



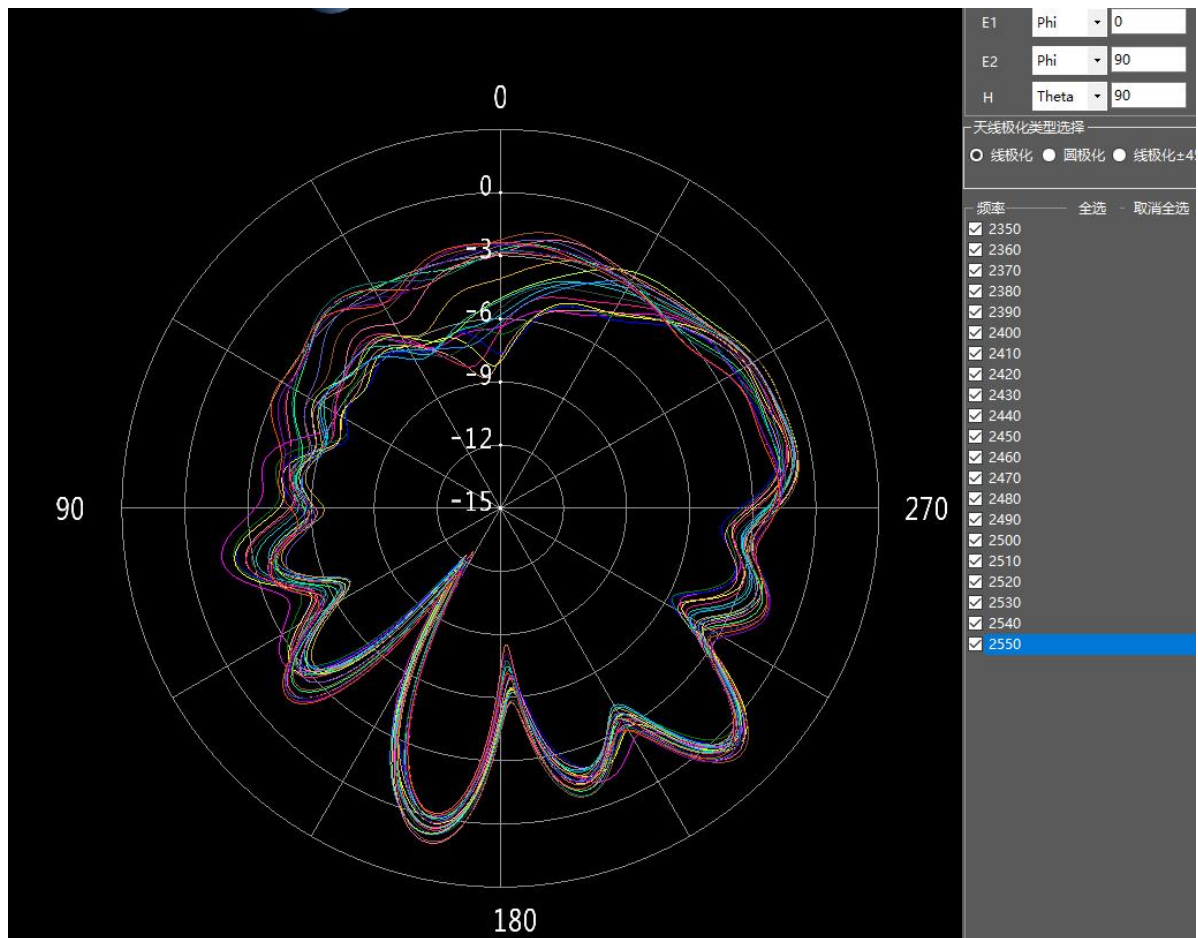
5.3 Radiation pattern

5.3.1 H-plane

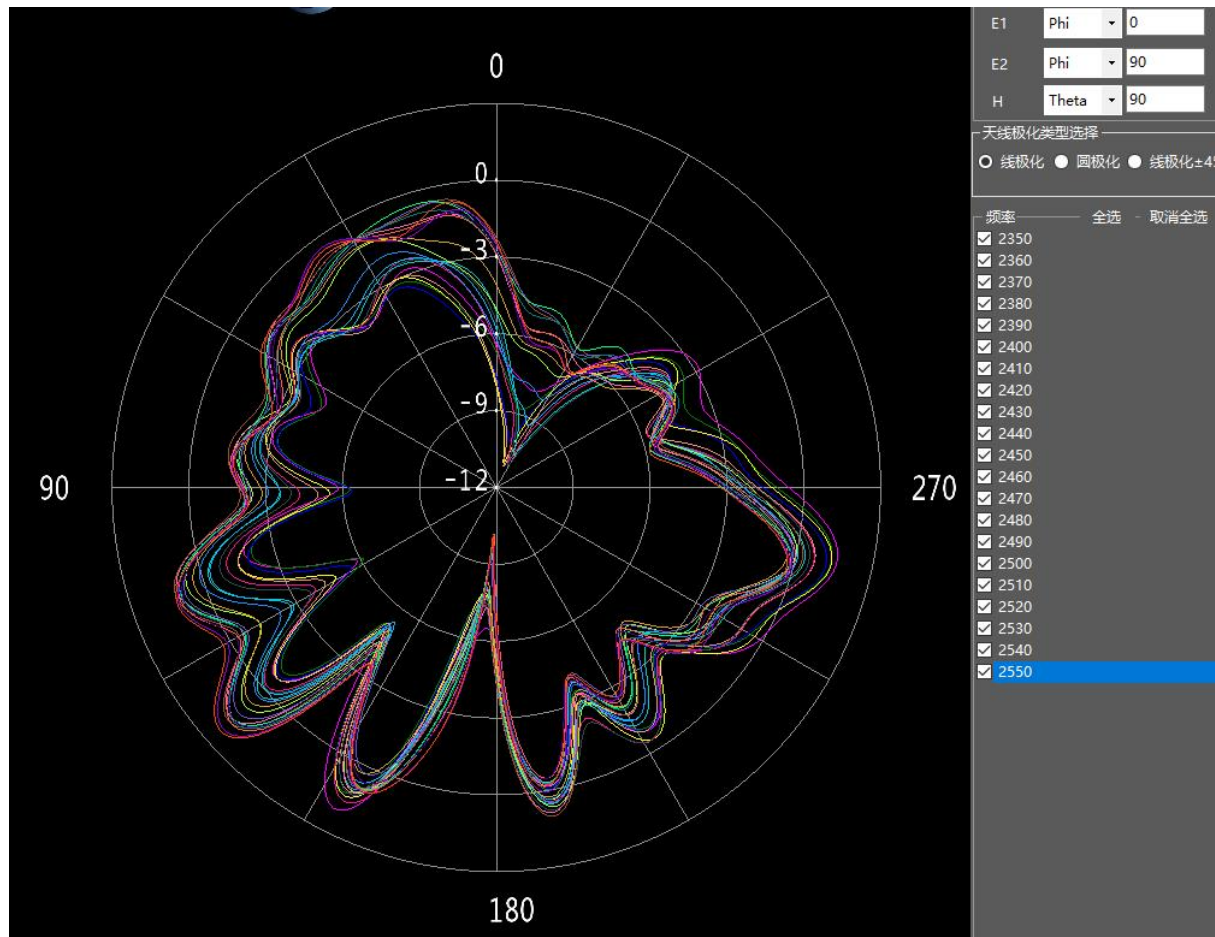


5.3.2 E-plane

E1



E2



5.4 UGain & Efficiency

频率(MHz)	增益(dBi)	效率(%)
2350	2.09	56.76
2370	1.44	50.93
2390	1.25	51.13
2400	1.74	54.60
2420	1.08	54.33
2450	1.36	58.65
2480	1.94	63.92
2500	1.70	59.85
2520	1.91	59.95
2550	2.39	62.31

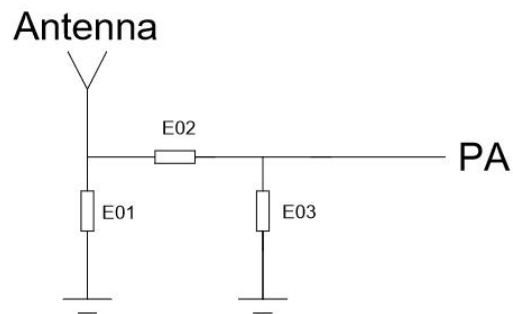
<u>WIFI</u>	<u>TRP</u>		<u>TIS</u>	
	UL_Channel		DL_Channel	
<u>11b</u>	1	16.01	1	-77.24
	6	15.83	6	-81.43
	11	15.41	11	-81.52

6 Environmental treatment suggestions

Environment does not need treatment

7 Impedance matching

E01	E02	E03
NC	1.2nH	2nH



8 Antenna plan

Technical drawing of an antenna with dimensions and a table of specifications.

Dimensions:

- Top view: 13.10±0.3, 9.15±0.3, 14.00±0.3, 3.00±0.5, 10.30±0.3, 2.80±0.3
- Side view: 1.50±0.1, 1.20±0.1, 1.50±0.1
- Thickness: T=0.4±0.1

Notes:

- no bad appearance
- with * size for the key size.
- of all related materials and processing technology to meet the requirements of ROHS.

PROJECTION		Name : Antenna		Design: Steven	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN mm GENERAL TOLERANCE:		Model NO: 26B007A-41		Checked :	
X XX ANGULAR ± 0.5°		Edition: 1 : A		Approved :	
		Material:		Unit: mm	
		Surface Treatment:		Scale : 1:1	
		Color :		Date : 2022.02.24	

9 Antenna installation guide

9.1 Antenna installation instructions

9.2



10 Other(manner of packing)

[illegible]



SHENZHEN YINGJIACHUANG TECHNOLOGY ELECTRONIC CO. LTD

<http://www.szsyjc.com>

APPROVAL SHEET

CUSTOMER NAME	823	
CUSTOMER P/N		
PART NAME	433MHz FPC built-in antenna, (For bell 22S models)	
P/ N	YJC-6N030-B15	
APPROVAL REV.	A1	
DELIVERY DATE	2021 年 02 月 25 日	
PREPARED BY	Huang Teng	
CHECKED BY	Wu Longfei	
APPROVED BY		
Customer Approved		
Approved By	Checked By	Prepared By

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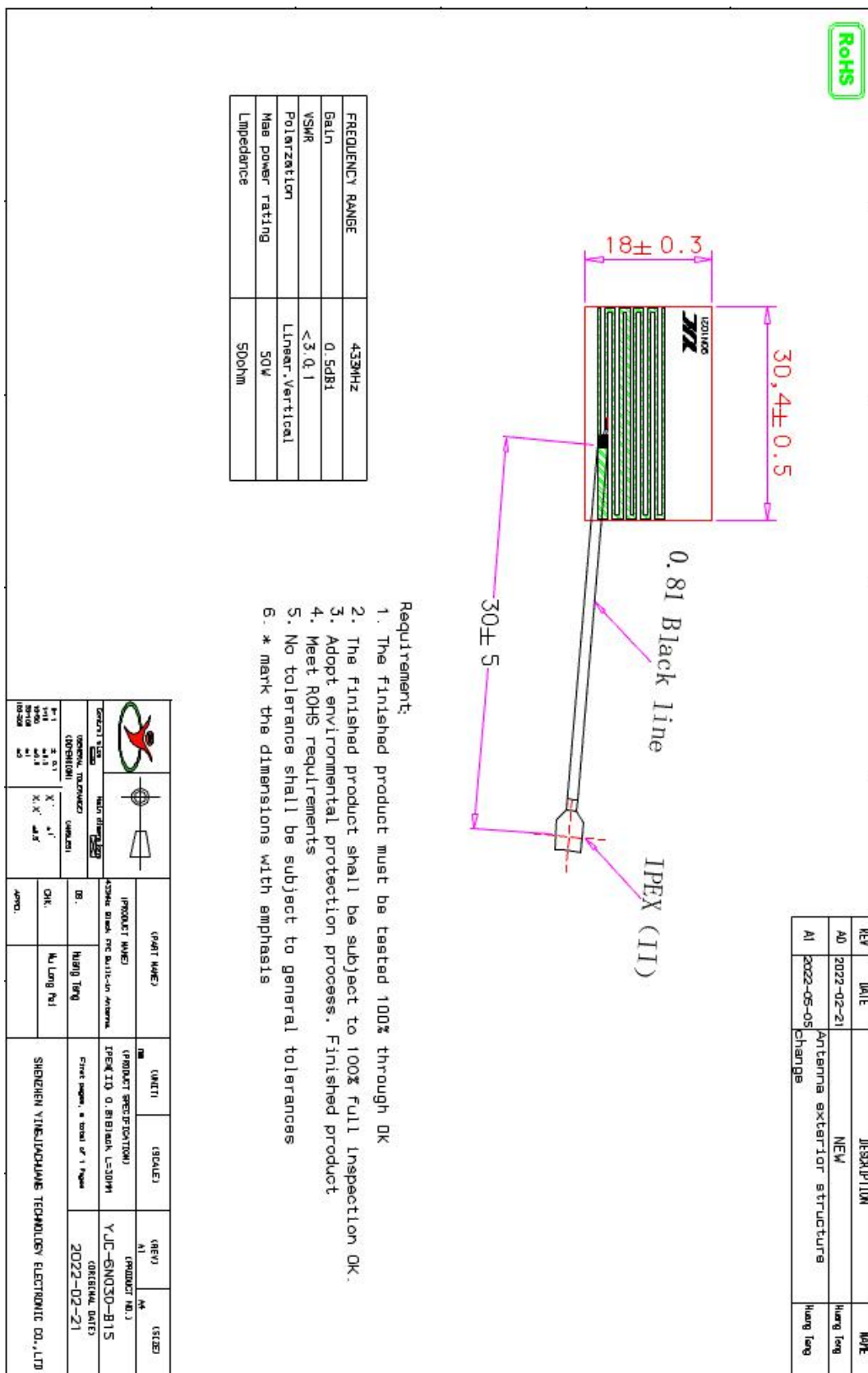
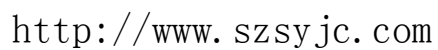
Directory

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Resumer:

Version	Change contents and reasons	Date	Issue
A0	NEW	February 25, 2022	
A/1	Antenna exterior structure change	May 5, 2022	





Antenna technical parameters and environmental testing:

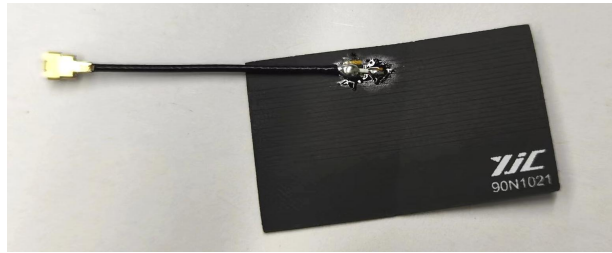
Electrical parameters of electrical apparatus			
Electrical Specifications		Mechanical Specifications	
Frequency Range	433MHz	Cable Color	Black
VSWR	<3.0	Input connector	IPE (II)
Input Impedance	50 Ω	Cable length	30mm
Direction	All	Working Temperature	-20℃~+70℃
Gain	0.5 dBi	Working Humidity	20%~80%

Environmental performance test:

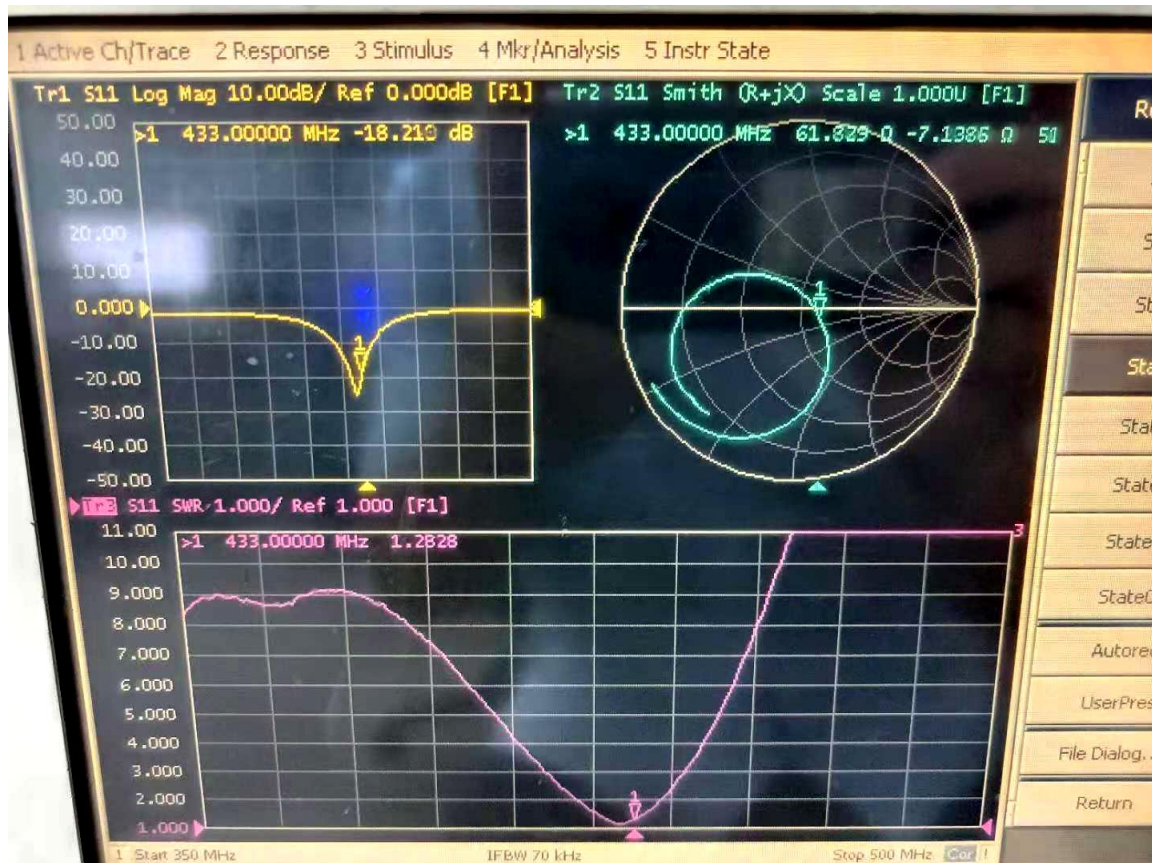
project	test condition	standard
Storage Conditions	In the absence of specified test temperature, humidity, air pressure is as follows: 1. Temperature is - 20 °C ~ + 70 °C 2. Relative humidity of 45% to 45% 3. Air pressure is 86 kpa to 106 kpa	Electrical and mechanical properties is normal
high and low temperature test	Between 70 °C and -20 °C for 5 loops, then 1-2 h under normal conditions, check the appearance quality.	Size should meet the requirements and should satisfy the content with the electrical and mechanical properties
Constant damp and hot resistance test	95 + / - 3% relative humidity, temperature test: 40 °C. Lasts 2 h after, try to take out the determination of electrical properties, within 5 min after try 1-2 h under article normal thing, check the appearance quality	Size should meet the requirements and should satisfy the content with the electrical and mechanical properties
vibration test	10-55 hz, vibration frequency range of displacement amplitude: 0.35 MM, acceleration amplitude: 50.0 M/S, sweep cycles: 30 times	Electrical and mechanical properties is normal
fall down test	1 m high altitude in accordance with the perpendicular axis free drop 3 times	Electrical and mechanical properties is normal



Physical picture of antenna and attach location picture:



Antenna performance test chart:



**Material RoHS conformity declaration form**

This is to certify that the delivery to your company's components, raw materials, auxiliary materials used and the additives in the production engineering are accord with RoHS environmental requirements of the restrictions on the use of hazardous substances directive (RoHS directive 2011/65 / EU)

About components used raw materials, packaging materials, auxiliary materials and additives used in the production process such as composition of the report is as follows:

Component /Part Name	Material Composition	ICP report #	Test Org.	Test Date	Content of harmful substances (ppm)						PASS?
					Cd	Pb	Hg	Cr ⁶⁺	PBB	PBDE	PASS
FPC	FPC	WTH21H06062745C-1	WALTEK	21/07/03	ND	ND	ND	ND	ND	ND	PASS
IPEX	copper	A2210394436101002	CTI	21/09/27	ND	ND	ND	ND	ND	ND	PASS
	Gold	A2210394436101001	CTI	21/09/27	ND	ND	ND	ND	ND	ND	PASS
wire stock	RG/RF Series Coaxial Cables	CANEC2202366903	SGS	22/02/28	ND	10	ND	ND	ND	ND	PASS