



ShenZhen Powerful Technology CO., Limited

SPECIFICATION FOR APPROVAL

CUSTOMER: Hanyang technology

CUSTOMER NO: _____

PART NAME: WIFI antenna/FPC material, 1.13 black line ipex-1 L=100MM

SUPPLIER NO: YL1190

Date: 2023.01.09

version: V1

CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

SUPPLIER SIGNATURE		
APPROVAL	CHECK	DESIGN
Xuanxuan zhao	na chen	Quan zhang

Laboratory test environment and equipment



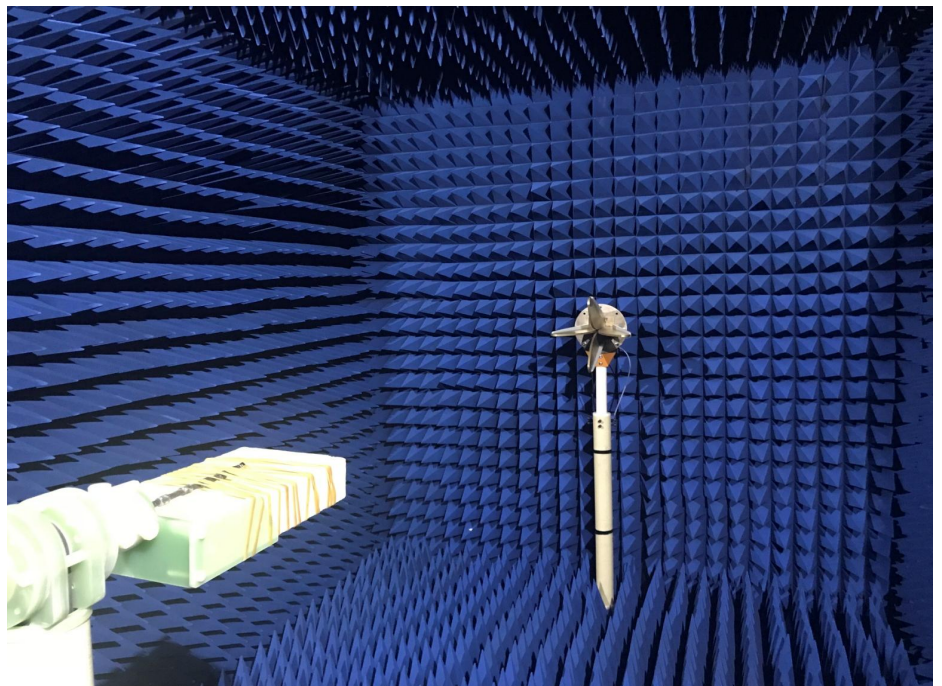
CMW500



E5071B



Aglient 8960



(Test Project) : S11、S12 、 VSWR 、 Efficiency、 Gain 3D Radiation Pattern 、 TRP、 TIS



Letter of acceptance 3

1. (Technical Index) 4

2. (Drawings) 5

3.(Antenna test data) 6-8

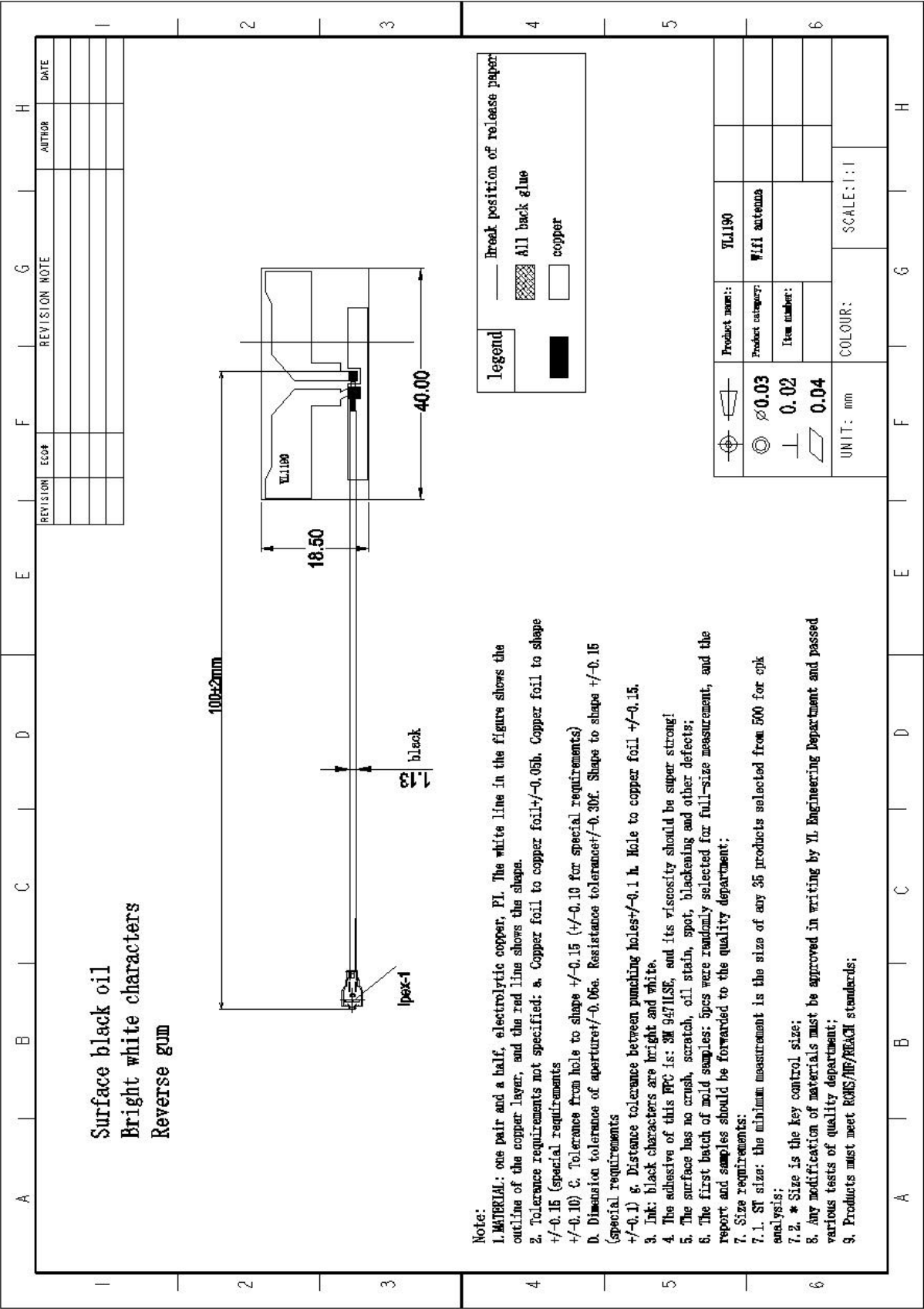
4. (package) 9



1. (Technical Index)

Frequency Range (MHz)	2400-2500Mhz
Antenna gain (dBi)	2400-2500Mhz MAX 1.73dBi
VSWR/50 Ohms	≤ 2.0
Impedance	50 Ω
Termination	Ipex-1 1.13 black line L=100mm
Working temperature (°C)	-30~+65

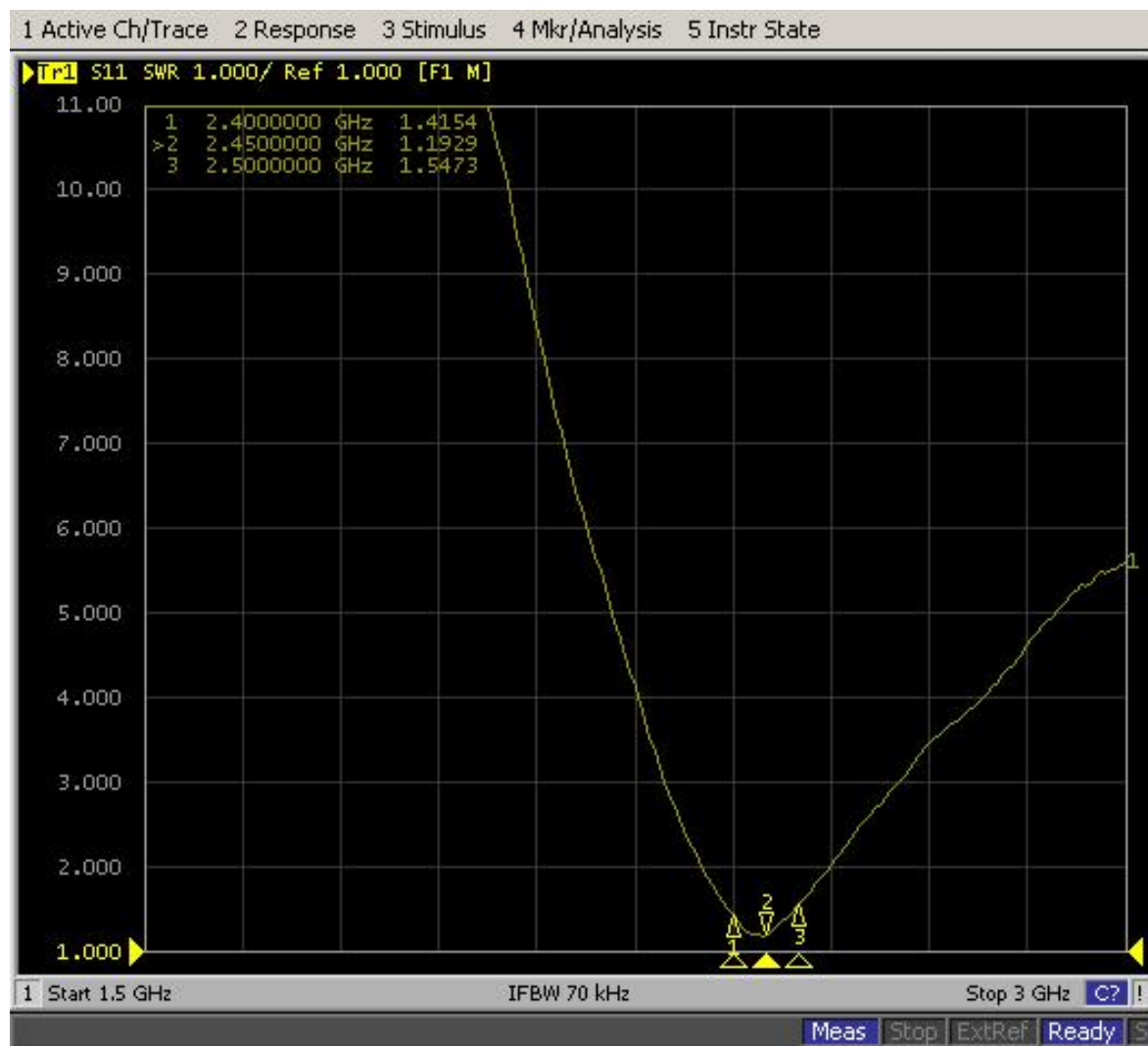
2. (Drawings)



3. (Antenna test data)

3-1 SWR.

SWR

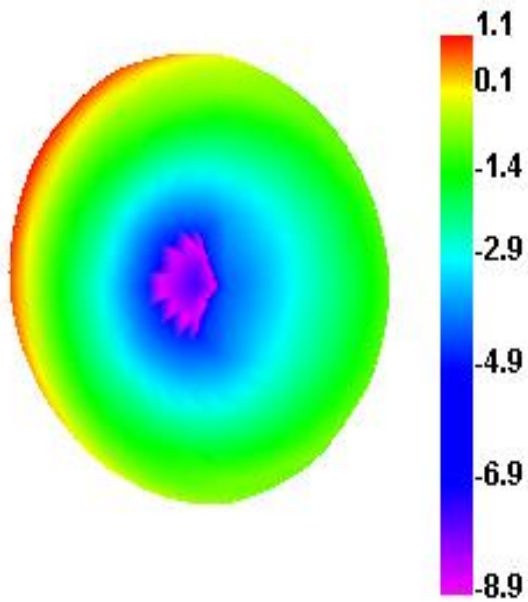


3-2 Antenna gain/efficiency.

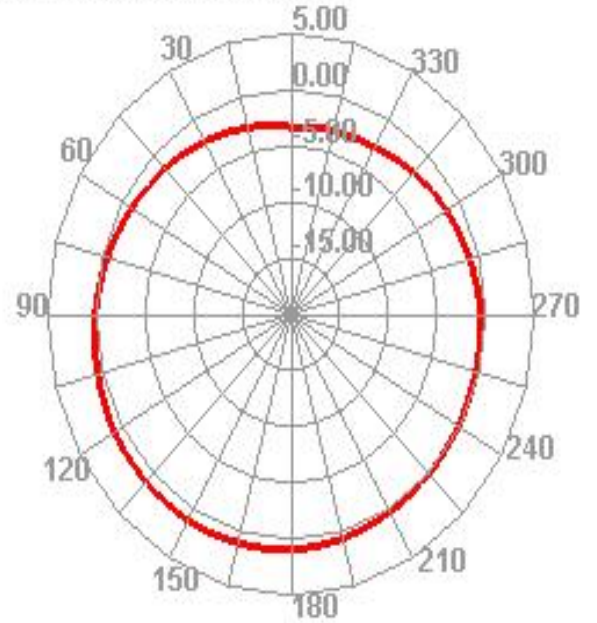
Freq (MHz)	Effi (%)	Gain (dBi)
2400	39.34	-0.41
2405	44.61	0
2410	51.9	0.68
2415	45.79	0.13
2420	45.28	0
2425	55.5	0.91
2430	57.55	1.03
2435	55.12	0.78
2440	54.48	0.84
2445	61.43	1.37
2450	66.32	1.73
2455	59.43	1.28
2460	60.24	1.29
2465	66.47	1.64
2470	69.66	1.82
2475	61.39	1.22
2480	63.79	1.37
2485	64.81	1.45
2490	67.15	1.59
2495	67.14	1.54
2500	62.9	1.41

3-3 Apple map.

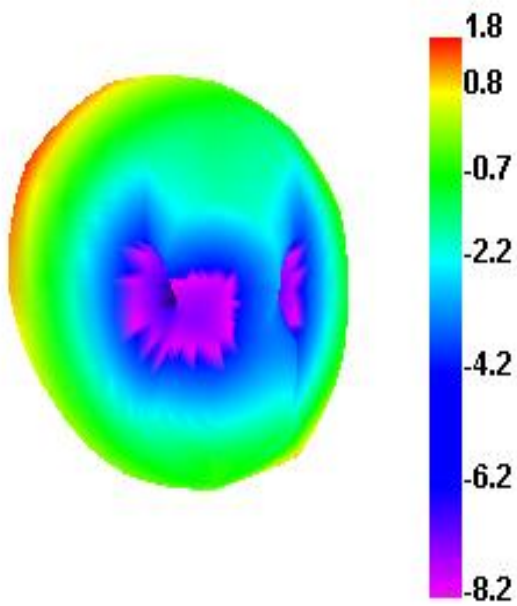
2400.000MHz



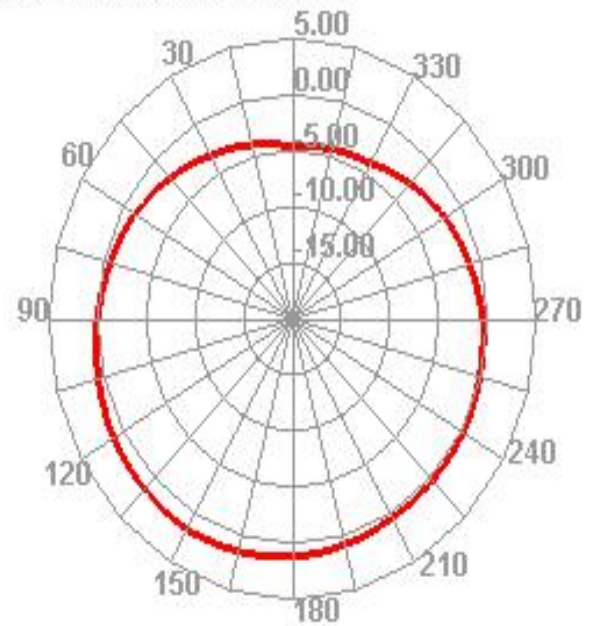
2400.000MHz H



2500.000MHz



2500.000MHz H



Package description of antenna assembly

General requirements:

1. State the customer name, project name and model.
2. The picture shows the inner and outer boxes, the packing method when shipping, the number of layers, the number of single layers, etc.
3. Fill in the name and quantity of packing materials in the remarks column. Note: If the line is too short, the terminal should not be wrapped with foam.



Figure 1: A bundle of terminal heads is wrapped with foam and put into PE bags, each bag 200/PCS



Figure 2: Packing PE bag with foam around it for protection



Figure 3: Shape of outer packing box



Figure 4: Labeling, full box shipment

Item number:	YL1190
Product name:	WIFI antenna
Version:	A1
Packing:	PE bag+outer box
Single binding quantity	100pcs/200pcs/
PE bag quantity	200PCS