

Shenzhen QiBing Technology Co.,Ltd

Antenna Specification for Approval

NO. QBAC20221115001

Customer Name: LE WEI

Product Name: WIFI

Product descriptinon: CU, D=1.13mm Black Cable Type, L=90mm

Part NO.: Q34. 90B. 211. A

Customer NO.: LW-ANT-0156

Version number: V1.0

Issued Date: 2022-11-15

QIBING	
R&D Dept	
Business Dept	
Approved By	

CUSTOMER	
R&D Dept	
Business Dept	
Approved By	

● Specification Summary

A. Electrical Characteristics	
Frequency	2400MHz ~2500MHz
LogMag	<-10
Efficiency	>35%
Peak Gain	0dbi
Impedance	50 Ω
Polarization	Line
B. Material & Mechanical Characteristics	
Material of Radiator	CU
Cable Type	1.13mm Black
Connector Type	NA
Dimension	NA
C. Environmental Characteristic	
Storage Temperature	- 30 °C ~ + 85 °C
Heat-durability	280±5°C, 10sec.
Weld Temperature	320±5°C 2-3sec.

● Test Equipment & Conditions

1. Network Analyzers :

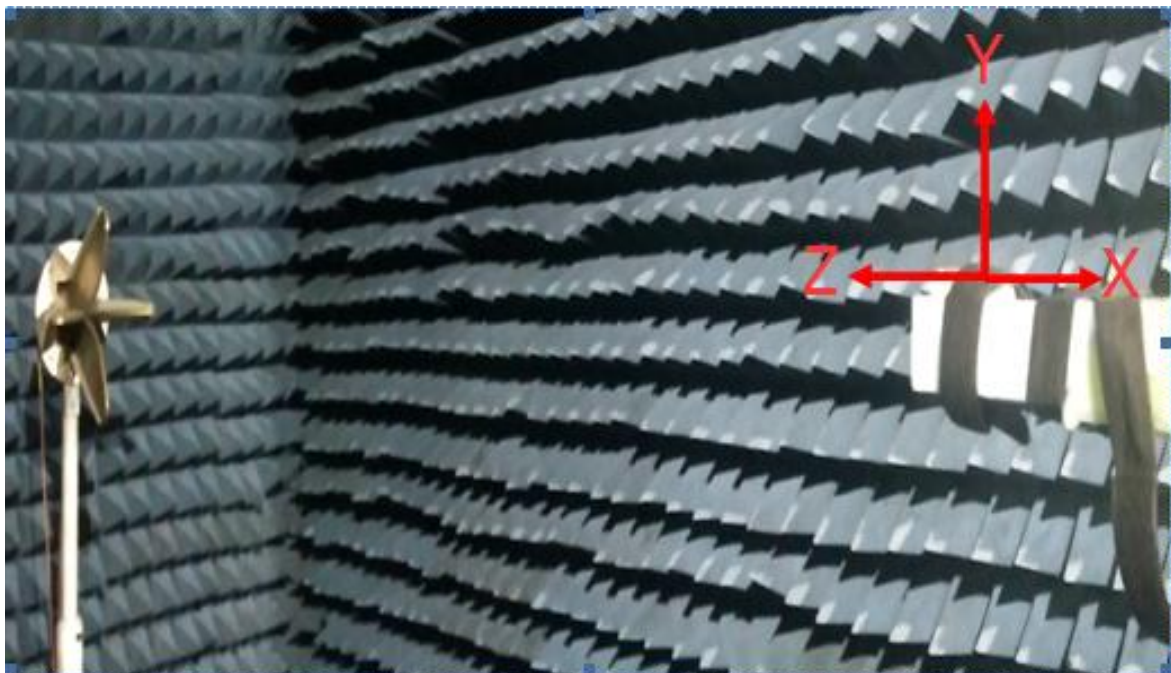
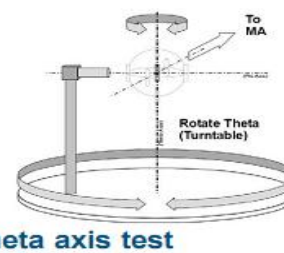
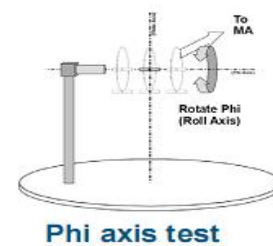
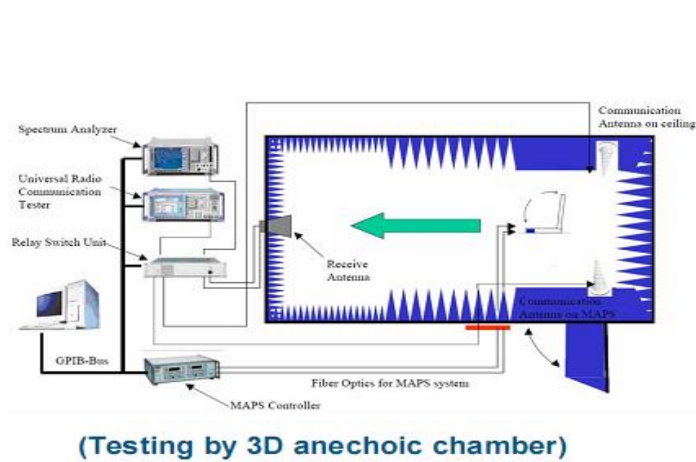
Agilent 8753D

5071B

Communications Test Set:

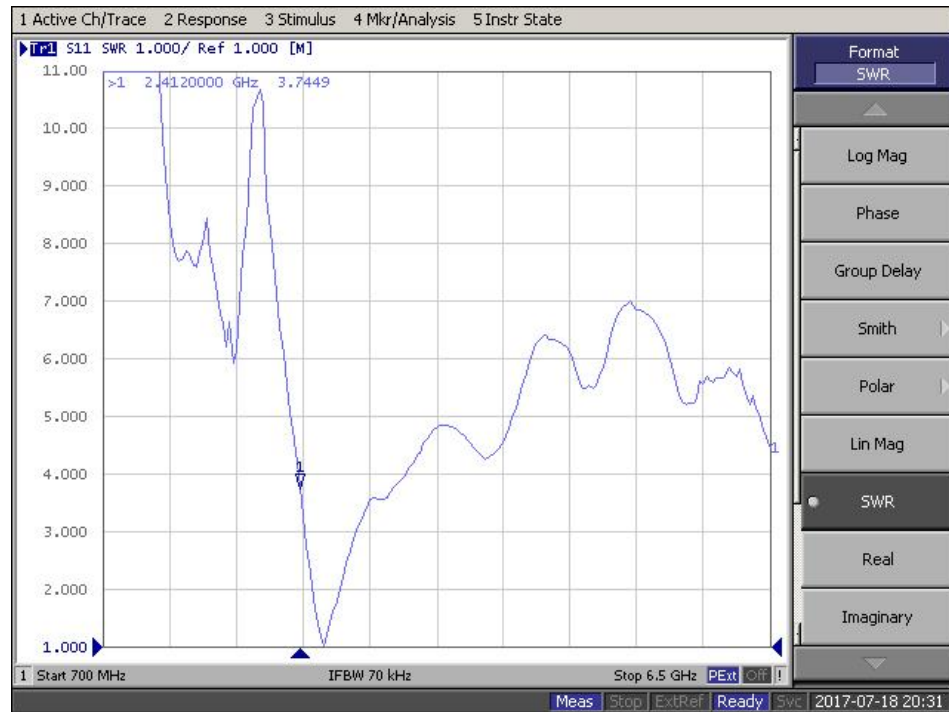
Agilent E5515C CMW500

2. 3D Chamber Test System

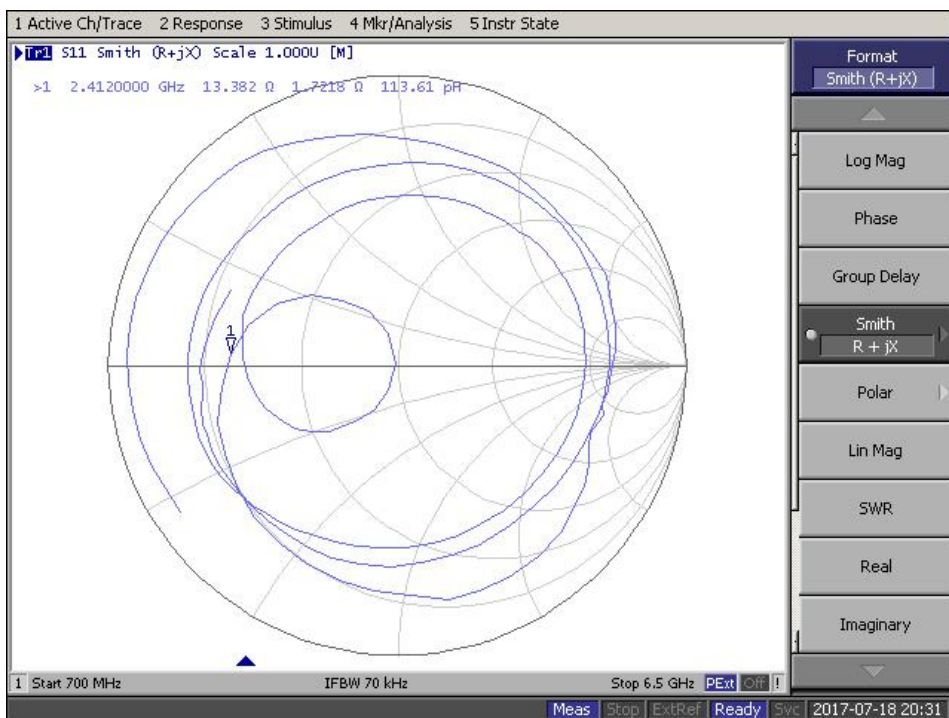


● Return Loss

SWR

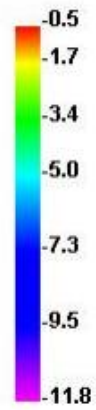
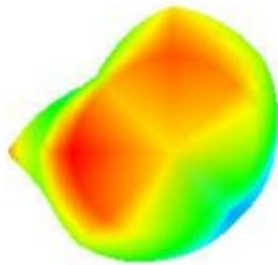


SMITH

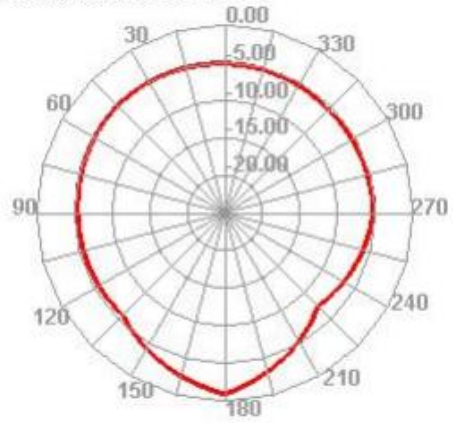


◆ 2.4G

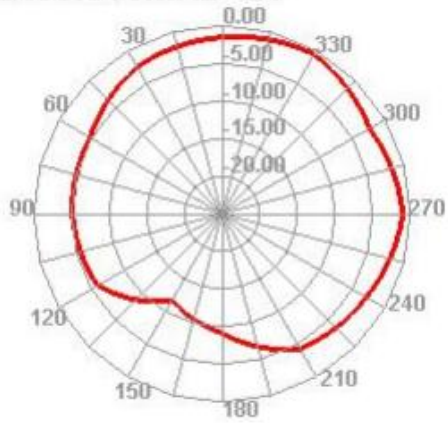
2450.000MHz



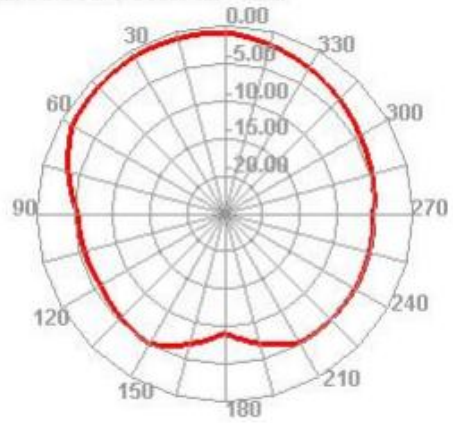
2450.000MHz H



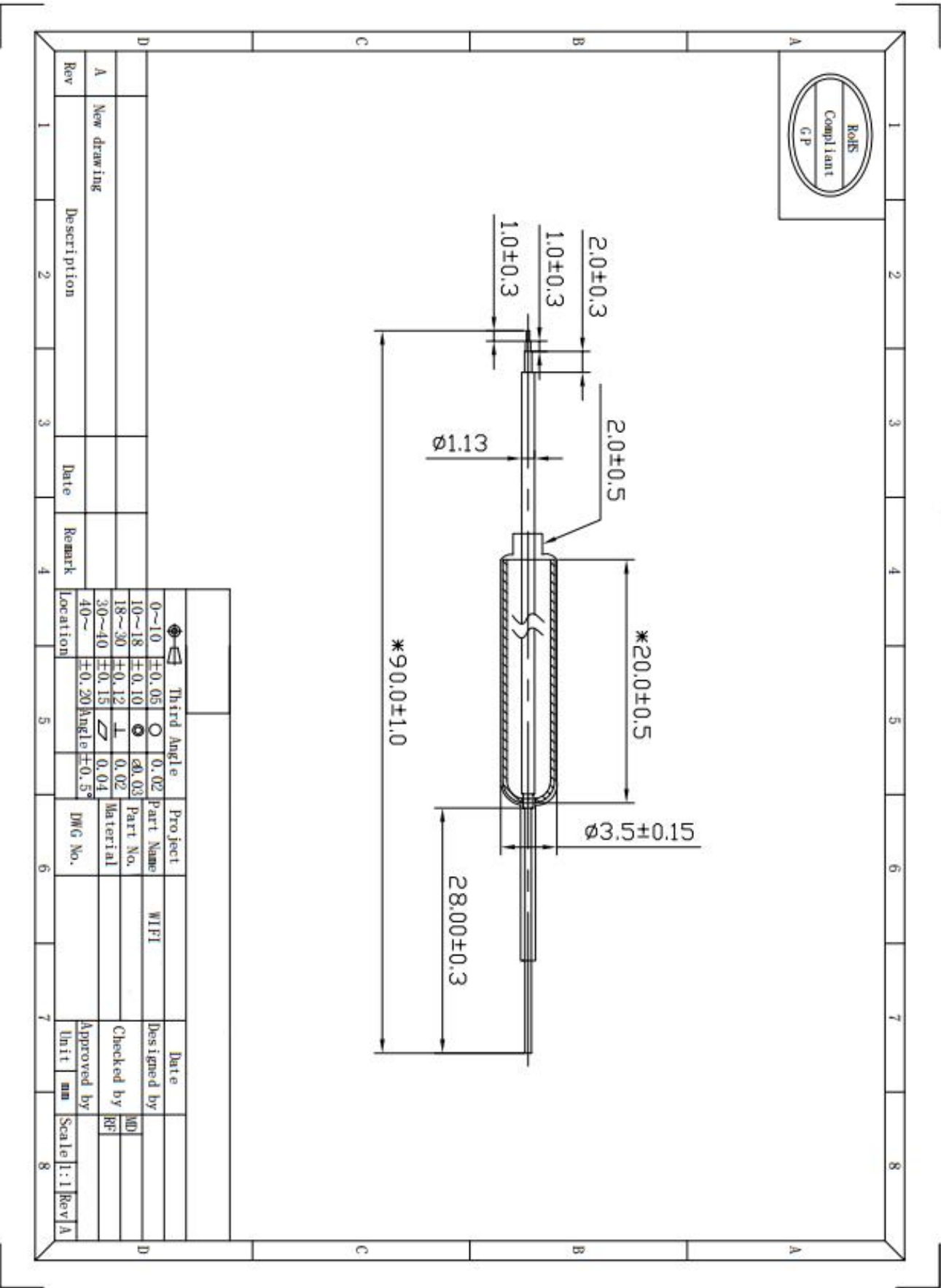
2450.000MHz E1



2450.000MHz E2



● Antenna Size:



● Reliability Test

Test Item		Test condition	Equipment	Specification	Result
1	Low Temp. Storage Test	Temperature: -30℃, Time:48hrs Test condition: Placing antenna in a Low/High Temperature Chamber, keep the temp is 25℃ and humidity is 65% for one hour, then step-down the temp. to -30℃ in one hour, store antenna for 44 hours; step-up temp to 25℃, test antenna after 2 hours.	Temp.&Humi. Tester	No material deformation is allowed. Electronic Performance is ok .	PASS
2	High Temp./High Humid Storage Test	Temperature: 85℃ Humidity: 85% RH Time:48hrs Test condition: Placing antenna in a Low/High Temperature Chamber, keep the temp is 25℃ and humidity is 65% for one hour, then step-up the temp. to 80℃ and the humidity up to 85% in one hour, store antenna for 44 hours; step-down temp to 25℃, test antenna after 2 hours.	Temp.&Humi. Tester	No material deformation is allowed. Electronic Performance is ok .	PASS
3	Salt-Spray 6 pray Test	Placing antenna in the Salt-Spray Tester ,set the test condition , Temp: $35\pm 2^{\circ}\text{C}$ Humidity: 85% NaCl salt spray : $5\pm 1\%$.PH value :6.5~7.2 Test time:24hours	Salt-Spray Tester	No color change No appear rusting	PASS