



深圳市智汉物联有限公司

ShenZhen RF Crazy Technology Co.,Ltd

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Community, Hangcheng Street, Bao'an District, Shenzhen City**

天线规格承认书

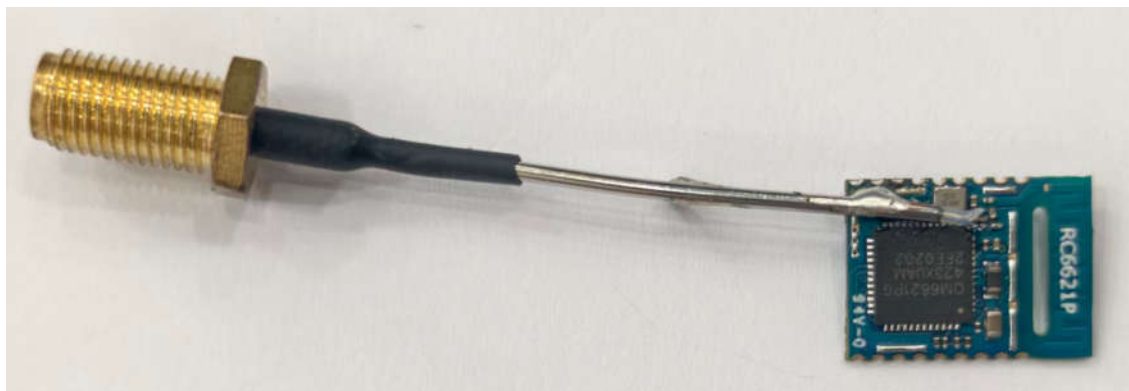
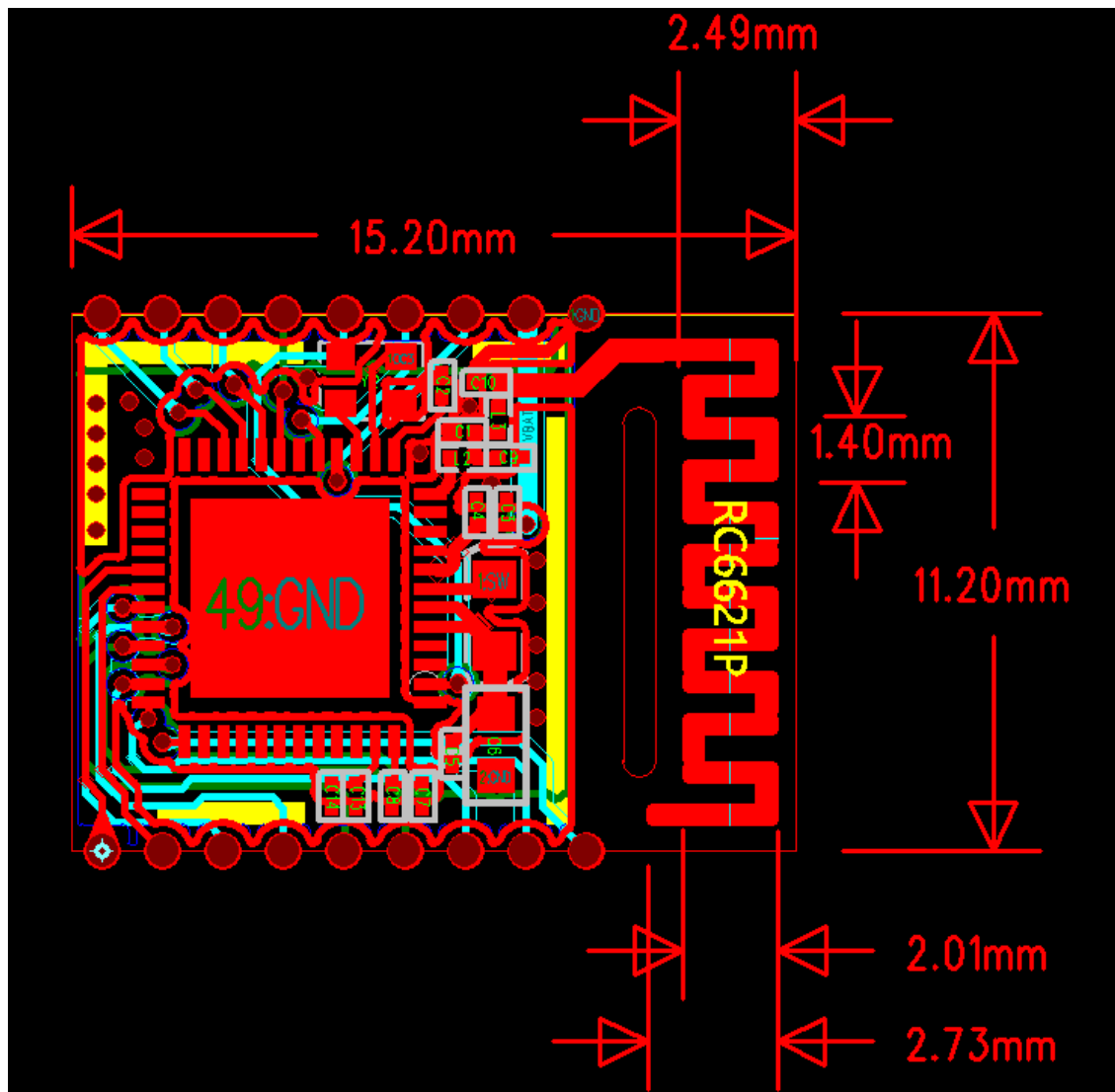
Antenna Specification for Approval

Product Name: PCB Antenna

Write By: Damon Cui

Issued Date: 2022-12-20

1、 The antenna size



2、Product Specification

A. Electrical Characteristics	
Frequency	2400MHz ~2500MHz
VSWR	2400MHz ~2500MHz <2.0
Efficiency	>50%
Impedance	50 Ohm
Polarization	Line
Gain	2.48dBi @ 2400MHz ~2500MHz
B. Material & Mechanical Characteristics	

3、Test Equipment & Conditions

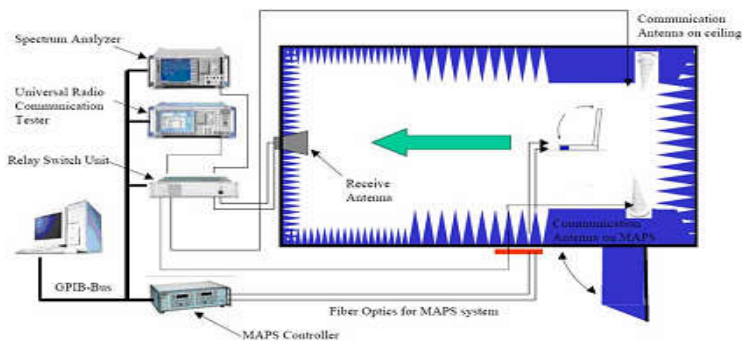
1. Network Analyzers :

Agilent 8753D 5071B

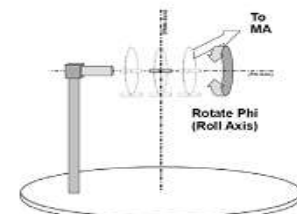
2. Communications Test Set:

Agilent E5515C

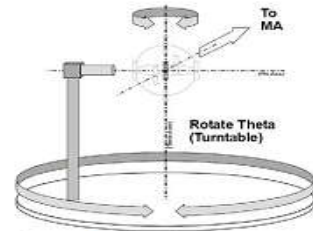
3. 3D Chamber Test System



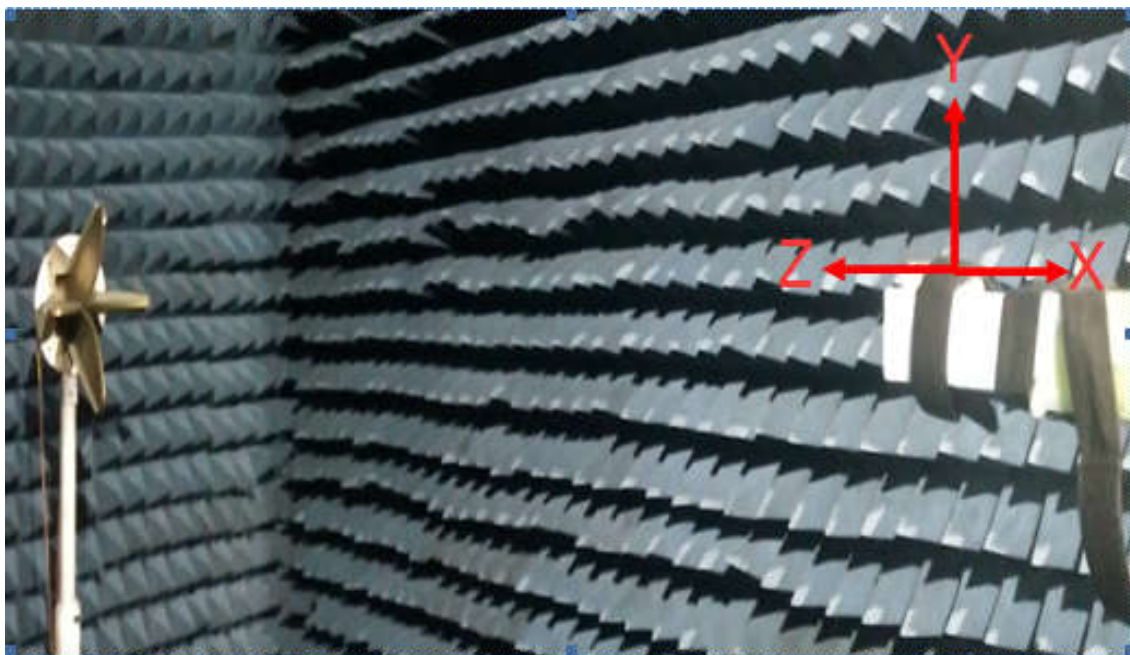
(Testing by 3D anechoic chamber)



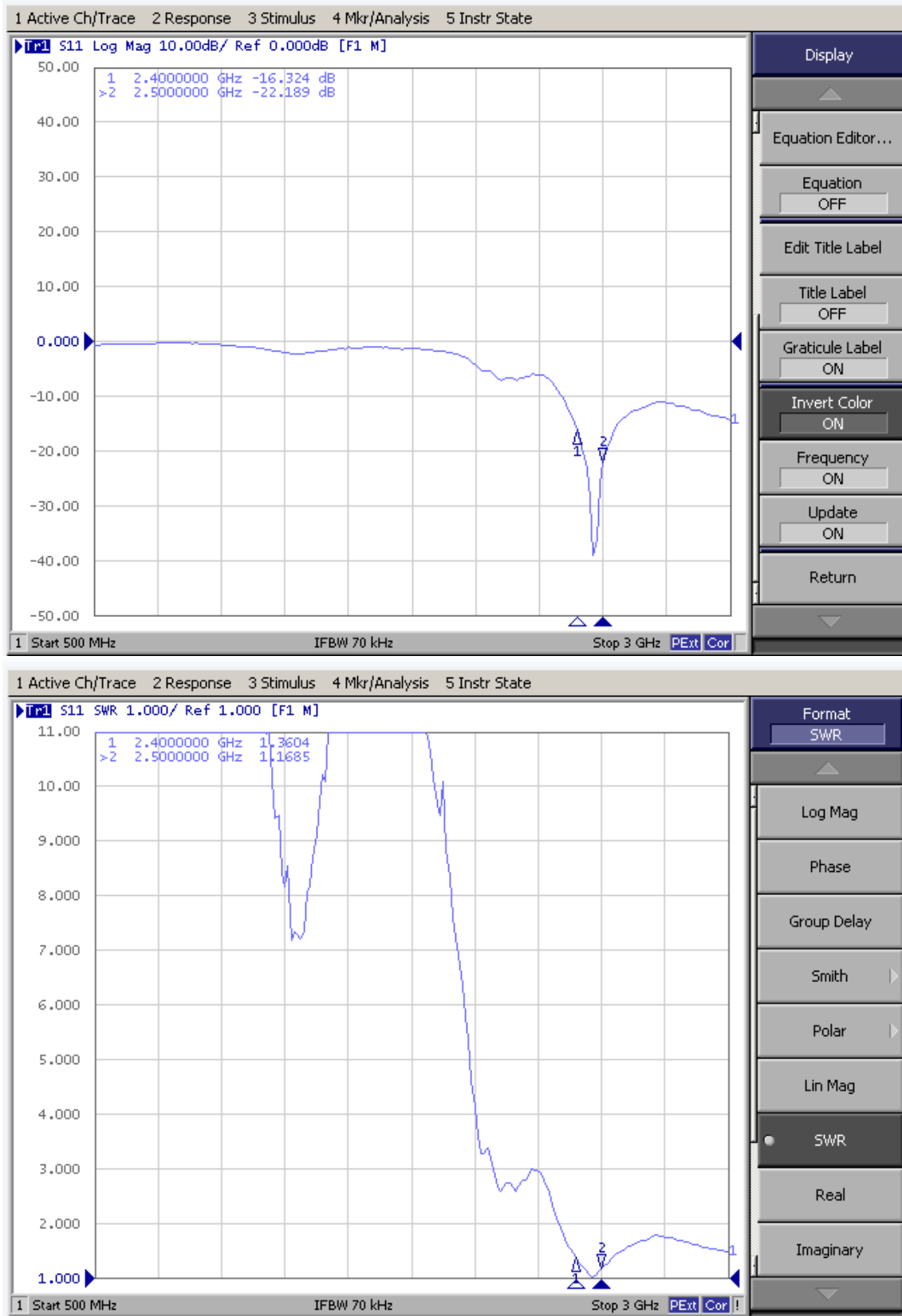
Phi axis test



Theta axis test



S11



Gain:

Freq (MHz)	Gain (dBi)
2400	2.25
2410	2.26
2420	2.19
2430	2.1
2440	2.15
2450	2.18
2460	2.18
2470	2.12
2480	2.16
2490	2.41
2500	2.48

Efficiency:

Freq (MHz)	Effi (%)
2400	68.05
2410	68.65
2420	70.69
2430	72.1
2440	74.49
2450	76.27
2460	75.67
2470	74.18
2480	75.79
2490	79.3
2500	78.4

Radiation Pattern:

