



东莞市一佳电子通讯科技有限公司

Dongguan YiJia Electronics Communication Technology Co.,Ltd.

规格承认书

SPECIFICATION FOR APPROVAL

日期 Date	2023/09/06
编号 File No	23090601
版本 Revision	1.0

客 户
CUSTOMER: 方位

客户料号
CUSTOMER NO: LEADA100049A0

品 名
PART NAME: WIFI Antenna L=125mm MHF

供方料号
SUPPLIER NO: YJL01.106.057.301A

送样日期Date: 送样数量Q “TY:

客户确认CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

供方确认 SUPPLIER SIGNATURE		
APPROVAL	CHECK	DESIGN
 ChenGuoqiang	XieLi	ChenXingyi

YJ-RD-F04-A

add: 东莞市长安镇沙头社区木鱼路59号元富工业区 Tel:0769-82586086 Fax:0769-82586086

ADD: Yuanfu Industrial Zone, 59 Muyu Road, Shatou Community, Changan Town, Dongguan City,China



承认书项目表

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12	N/A	N/A	N/A
13	-	-	-

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RoHS
Compatible

CUSTOMER

PART NO

REV.

DESCRIPTION

DATE

A

首次发行

2023-07-13

B

修改线长

2023-08-05

C

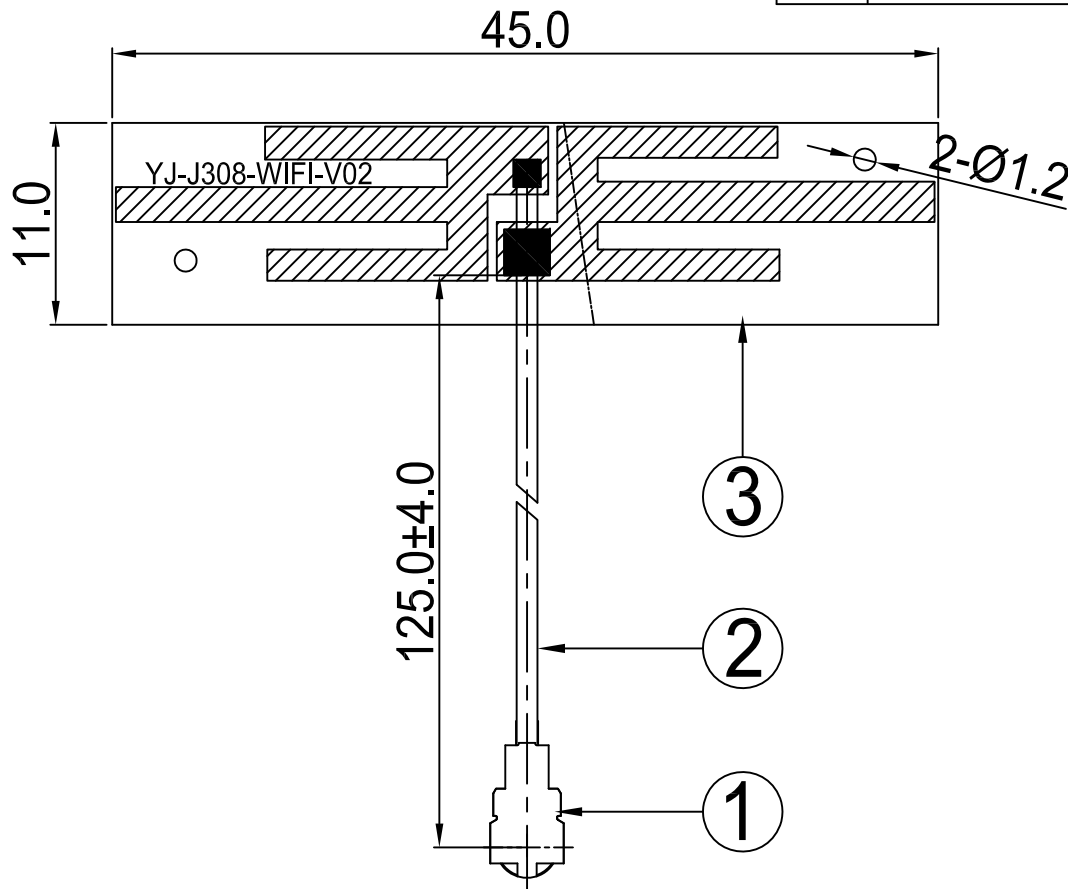
修改线长

2023-08-16

D

修改FPC及线长

2023-08-22



3	FPC	45.0*11.0mm	FPC	FPC11XXA.P01	1
2	Coaxial Cable	O.D.1.13 Black	O.D.1.13	COA100XXA.P01	1
1	Mini Connector	Au Plated 1代	Cu	TER100XXA.P01	1
NO	PART NAME	DESCRIPTION	Material	Part Number	Q.TY



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Dongguan YiJia Electronics Communication Technology Co.,Ltd. Tel :0769-82586086 Fax:0769-82586086

PART NAME: WIFI Antenna L=125mm MHF

PART NO.: YJL01.106.057.301A

DATE: 2023-08-22

APPROVED BY

CHECKED BY

DESIGNED BY



Tolerance

何清军

周颖杰

廖光喜

UNITS: mm

X.X ±0.50

SCALE: 1/1

X.XX±0.15

REVISION: D

X° ±3°



天线规格

Antenna Specification

Electrical Properties

Frequency	2.4-2.5GHz 5.15-5.85GHz
Impedance	50 Ohm Nominal
V.S.W.R	2.0 Max
Gain	6.1 dBi@2.4-2.5GHz 5.1 dBi@5.15-5.85GHz
Radiation	Omni-directional
Polarization	Linear

Physical Properties

Connector	1代IPEX
Cable Type	O.D.1.13mm
Cable Length	125mm
Cable Color	Black
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	25±5°C / <70%

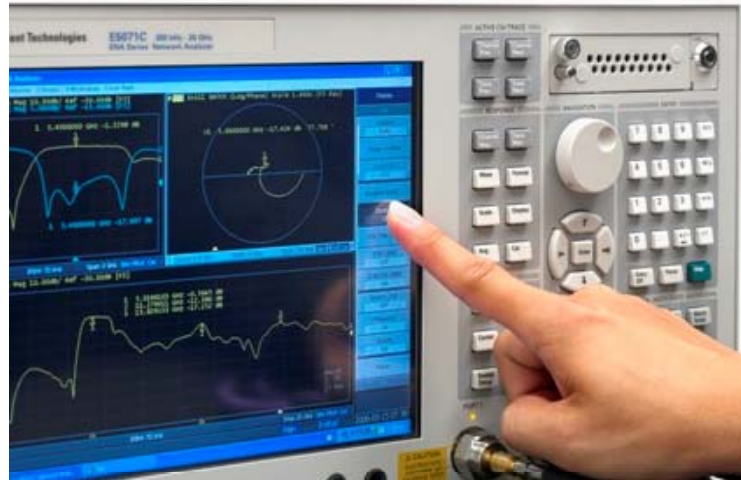
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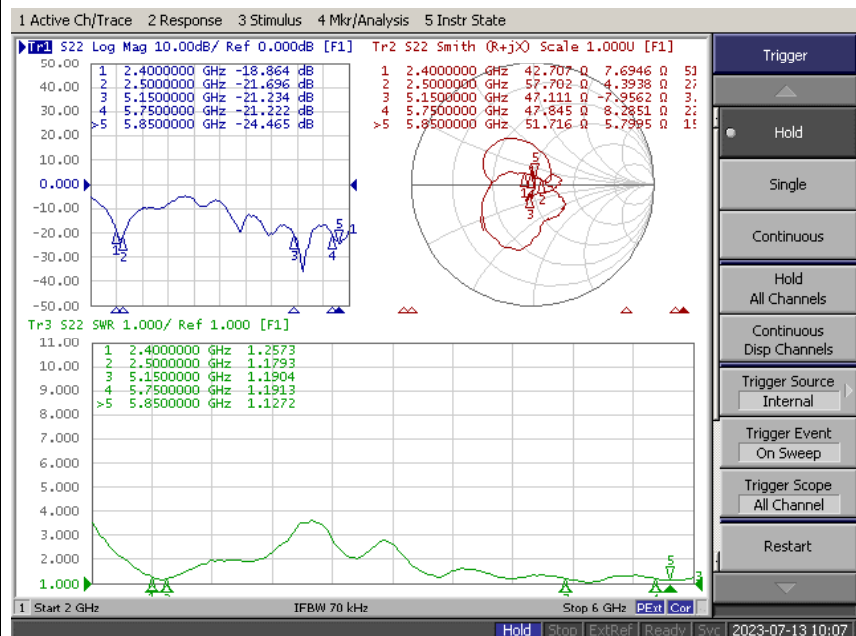


Antenna Performance Test

**Agilent
E5071B**



**S
Parameter
Test //
WIFI
Antenna**

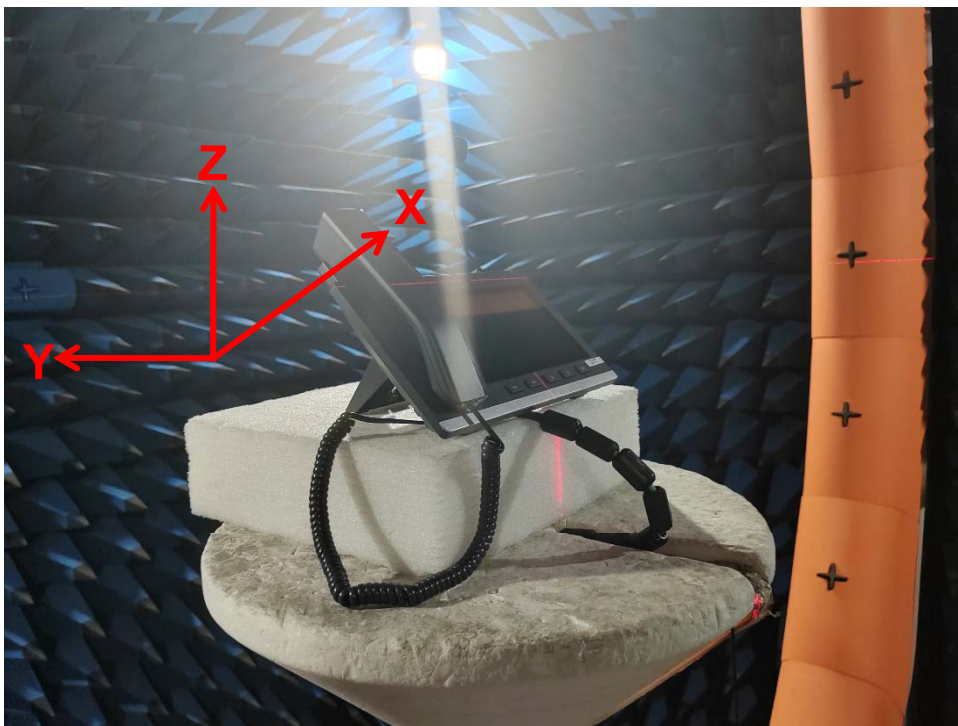
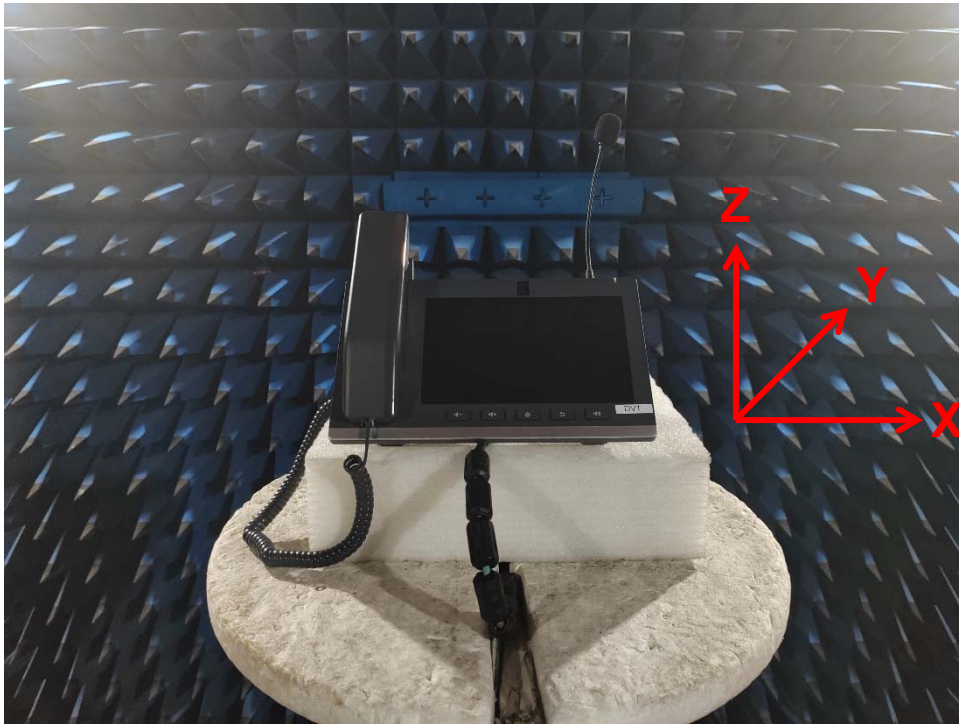


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Antenna Passive Test



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Passive Test For WiFi Antenna(2.4G)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	57.6	-2.4	5.2
2410	58.9	-2.3	5.5
2420	59.5	-2.3	5.6
2430	58.9	-2.3	5.6
2440	58.7	-2.3	5.4
2450	61.1	-2.1	5.6
2460	58.1	-2.4	5.3
2470	59.7	-2.2	5.8
2480	58.1	-2.4	5.7
2490	60.2	-2.2	6.1
2500	57.6	-2.4	5.9



Passive Test For WiFi Antenna(5.8G)

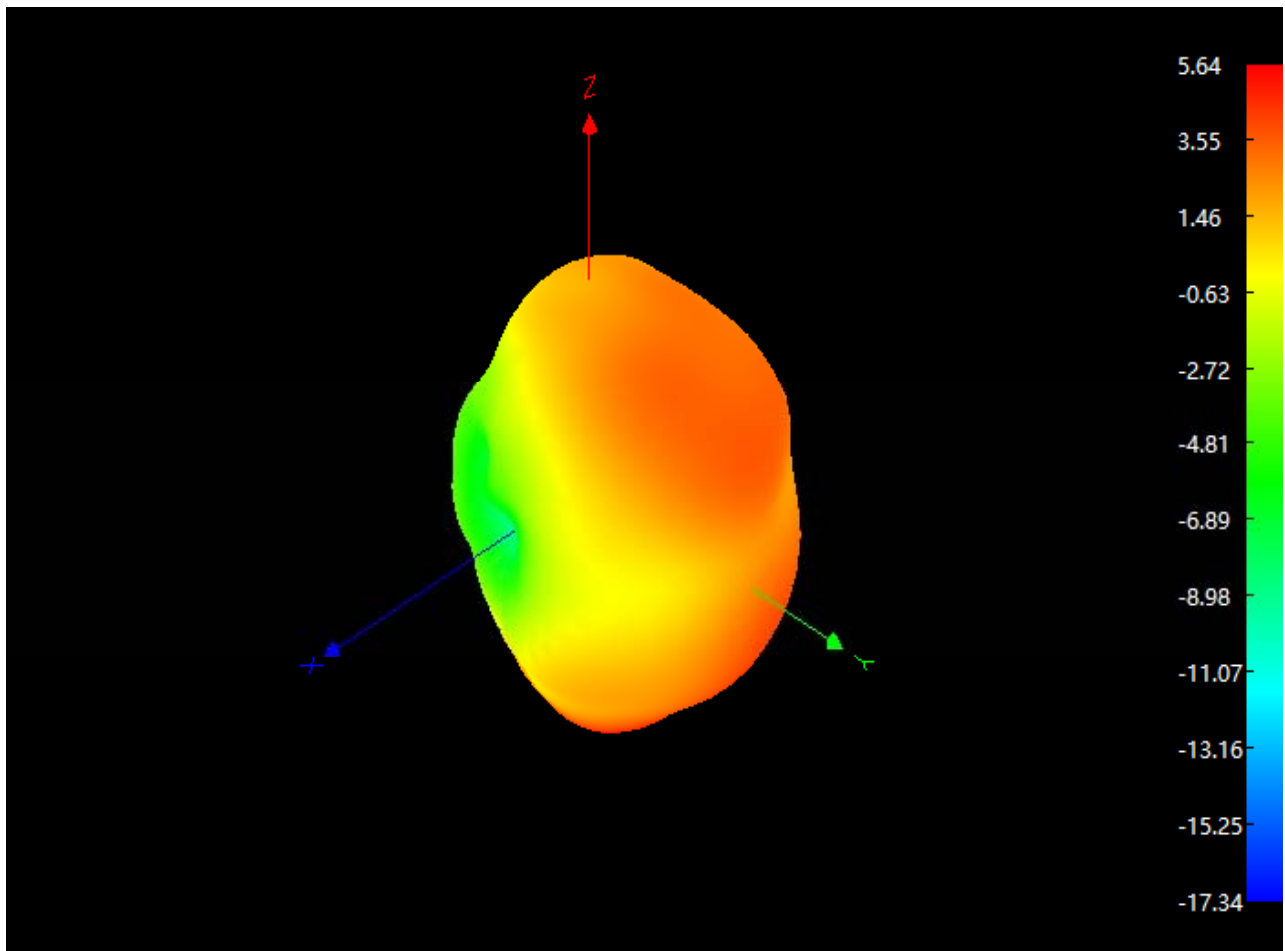
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	61.6	-2.1	4.0
5200	61.8	-2.1	4.2
5250	60.6	-2.2	4.1
5300	59.3	-2.3	3.9
5350	58.9	-2.3	3.9
5400	63.6	-2.0	4.6
5450	60.6	-2.2	4.4
5500	54.6	-2.6	4.5
5550	60.3	-2.2	5.1
5600	58.7	-2.3	4.8
5650	55.3	-2.6	4.8
5700	57.5	-2.4	4.6
5750	58.7	-2.3	4.5
5800	56.7	-2.5	4.4
5850	59.7	-2.2	4.4

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Radiation Pattern For WiFi Antenna(2450MHz)

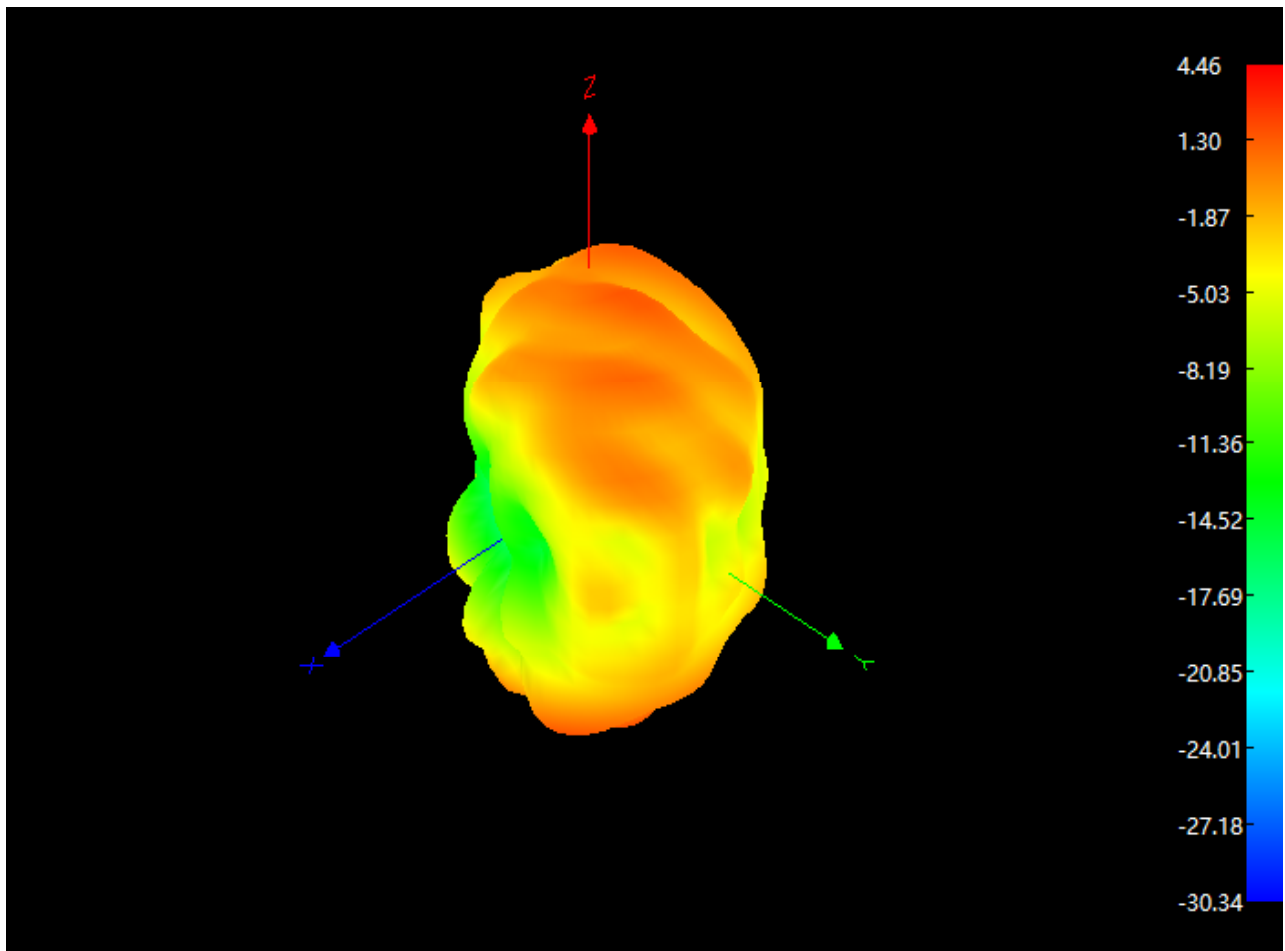


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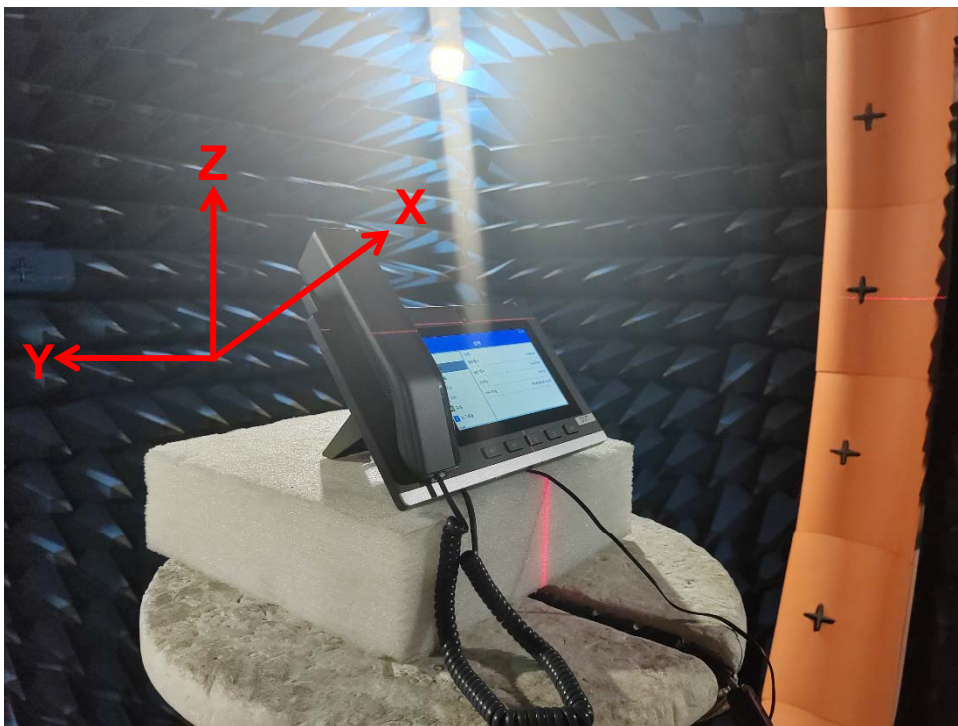
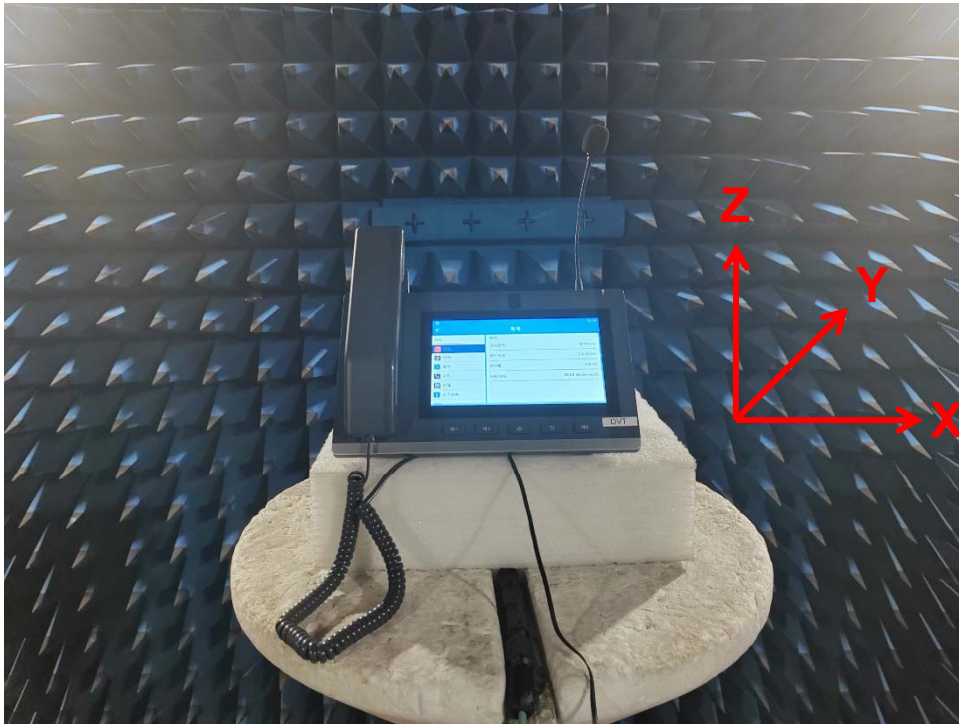


Radiation Pattern For WiFi Antenna(5500MHz)





Antenna Active Test



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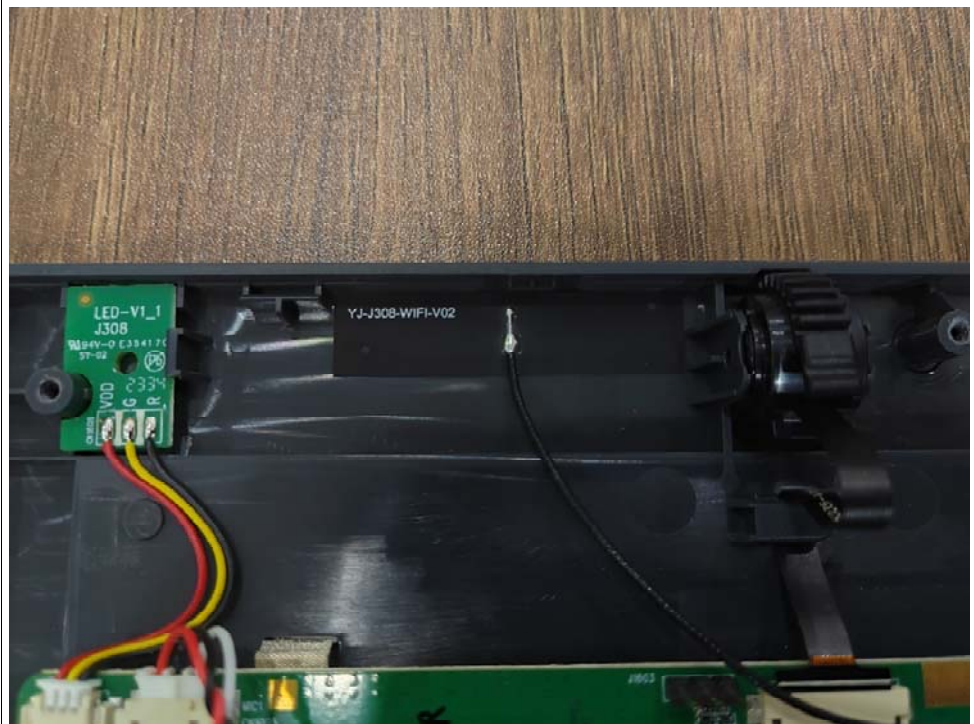
Active Test For WIFI Antenna					
Band	Channel	Data Rate	TRP	Data Rate	TIS
WIFI 2.4G 802.11b	1	11Mbps	17.6	11Mbps	-81.8
	6		17.9		-82.9
	11		17.3		-82.1
WIFI 5G 802.11a	149	54Mbps	14.4	54Mbps	-70.3
	157		15.9		-71.1
	165		15.6		-70.5



Device

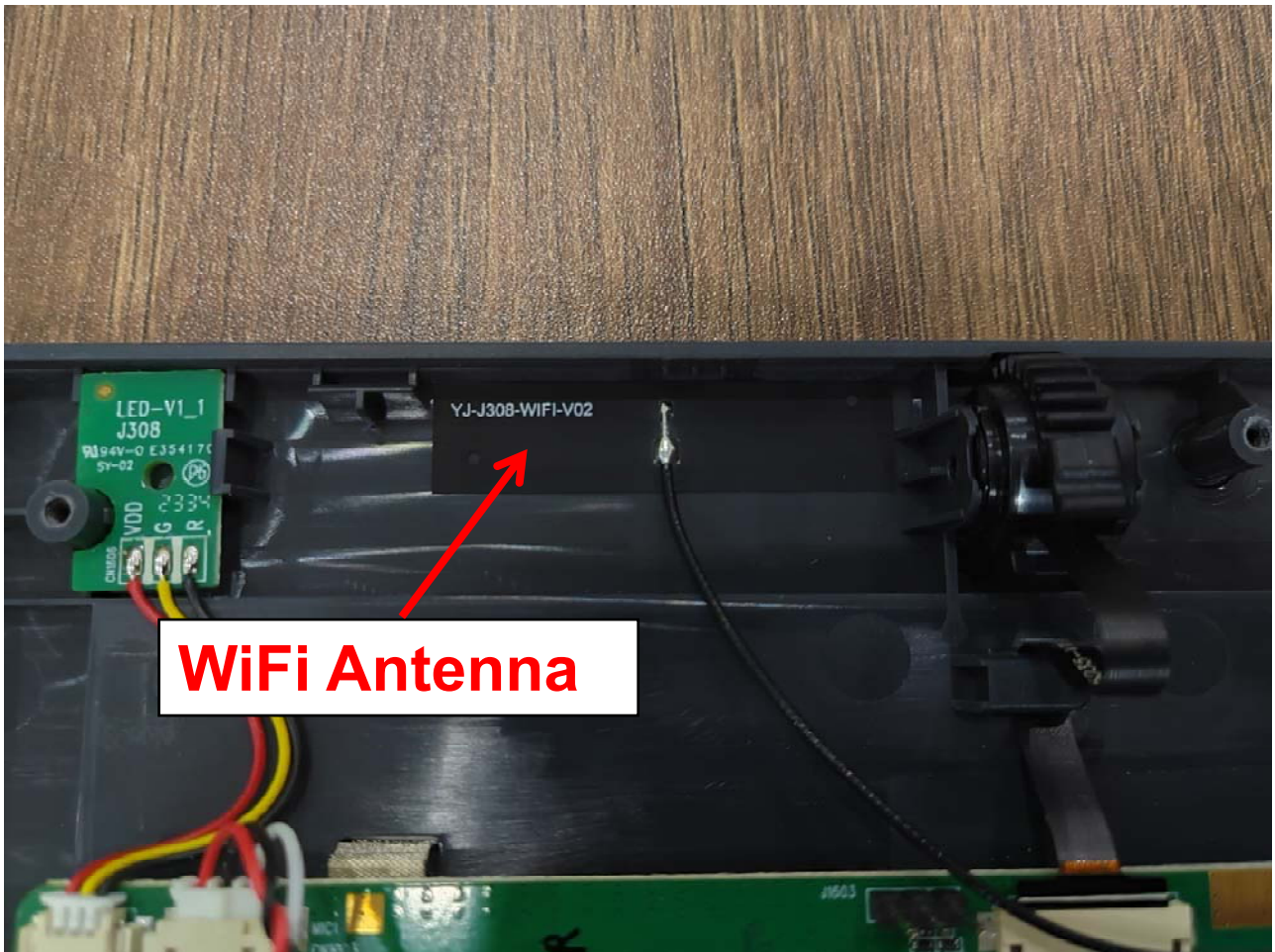


*WIFI
Antenna*



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WiFi Antenna