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	2023/11/13
编 号 File No	23111303
版 本 Revision	1.0

客 户 CUSTOMER: 方位

客户料号 CUSTOMER NO: LEADA100047A0

品 名 PART NAME: WIFI Antenna L=180mm MHF

供方料号 SUPPLIER NO: YJL01.106.059.303A

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

承认书项目表

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13	-	-	-

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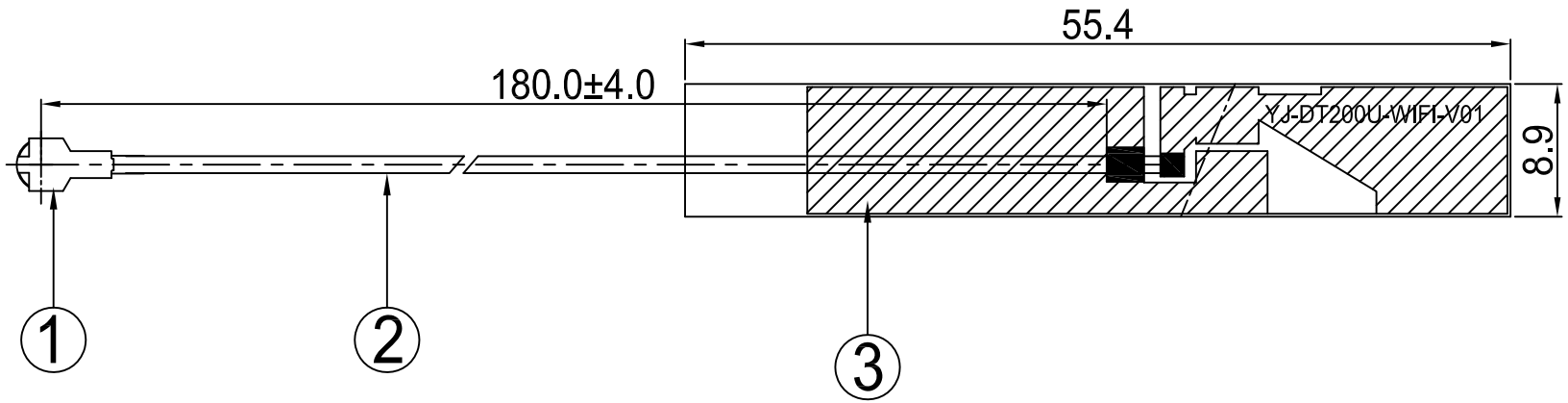
RoHS Compatible

CUSTOMER	
PART NO	

REV.	DESCRIPTION	DATE
A	首次发行	2023-07-19
B	修改线材及端子	2023-07-20



NO	PART NAME	DESCRIPTION	Material	Part Number	Q.TY
3	FPC	55.4*8.9mm	FPC	FPC11XXXA.P01	1
2	Coaxial Cable	O.D.0.81 Black	O.D.0.81	COA100XXA.P01	1
1	Mini Connector	Au Plated 3代	Cu	TER100XXA.P01	1

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Dongguan YiJia Electronics Communication Technology Co.,Ltd.
Tel :0769-82586086
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PART NAME: WIFI Antenna L=180mm MHF

PART NO.: YJL01.106.059.303A

DATE: 2023-07-20

APPROVED BY	CHECKED BY	DESIGNED BY	
何清军	唐明亮	廖光喜	UNITS: mm SCALE: 1/1 REVISION: B

Tolerance
X.X ±0.50
X.XX±0.15
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	5.7 dBi@2.4-2.5GHz 5.3 dBi@5.15-5.85GHz
Radiation	Omni-directional
Polarization	Linear
Physical Properties	
Connector	3代IPEX
Cable Type	O.D.0.81mm
Cable Length	180mm
Cable Color	Black
Operating Temp.	-40 ~ +85 ˚C
Storage Temp / Humidity	25±5˚C / <70%

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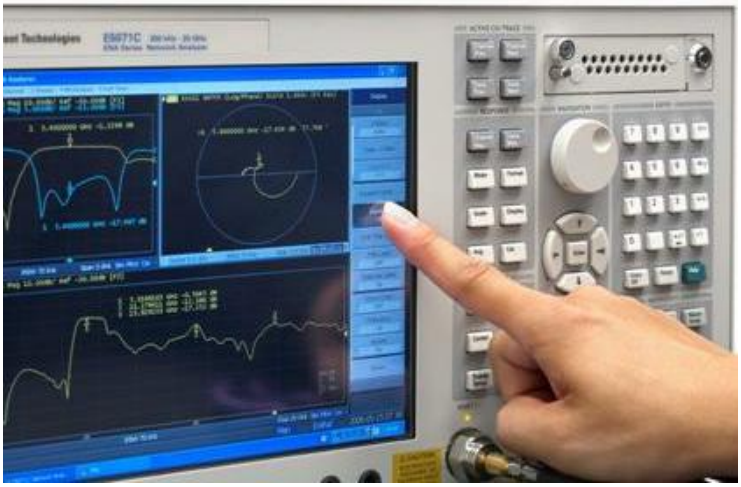
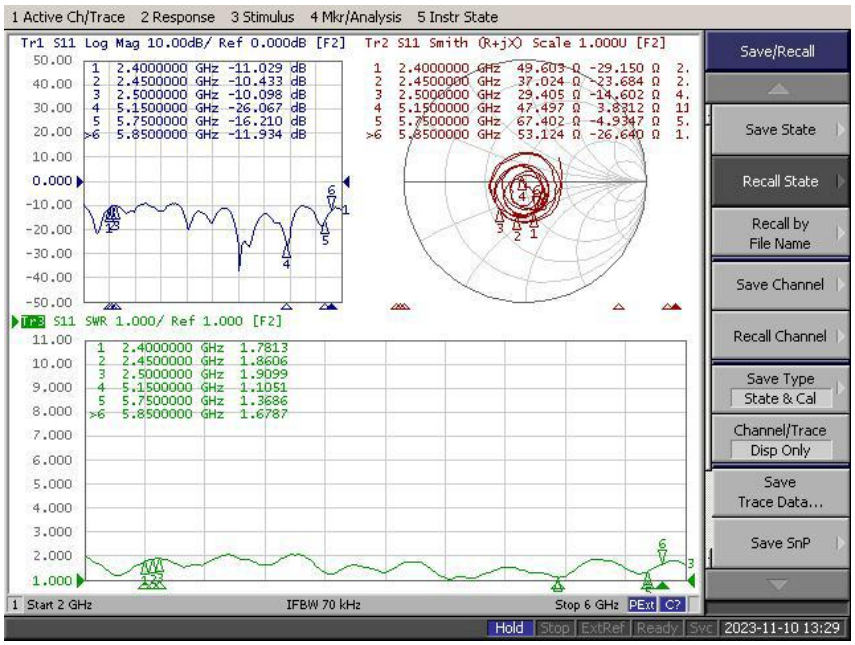
Antenna Performance Test

Agilent E5071B	
S Parameter Test // WiFi Antenna	

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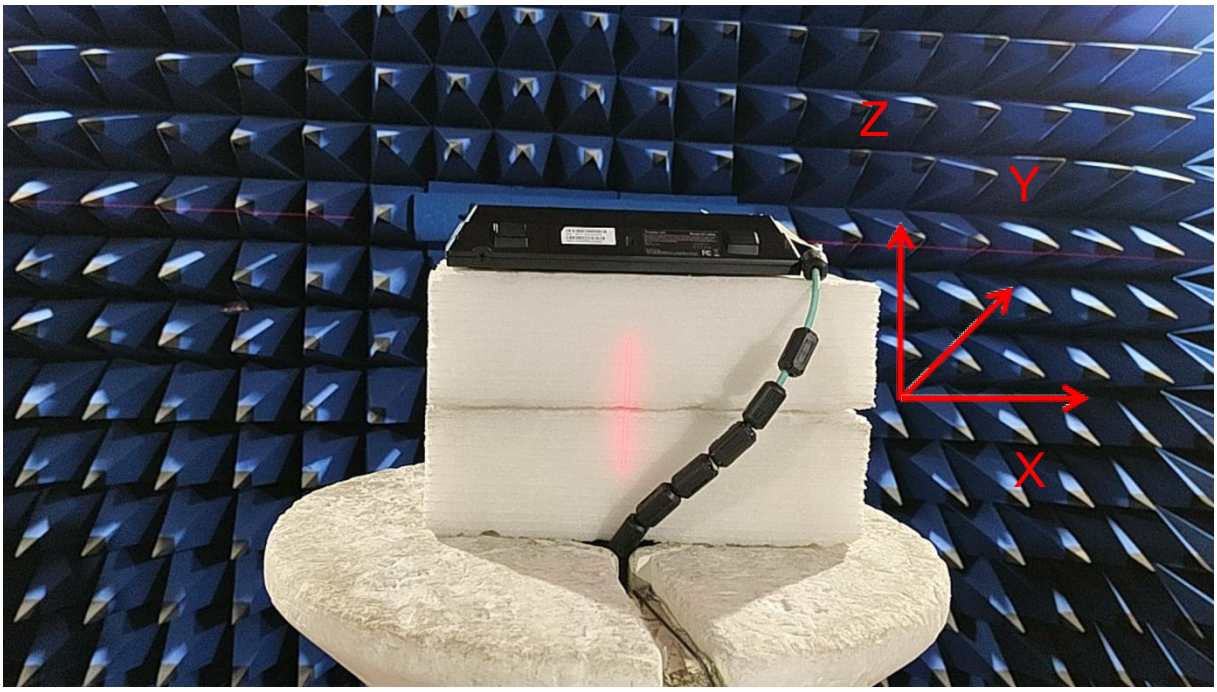
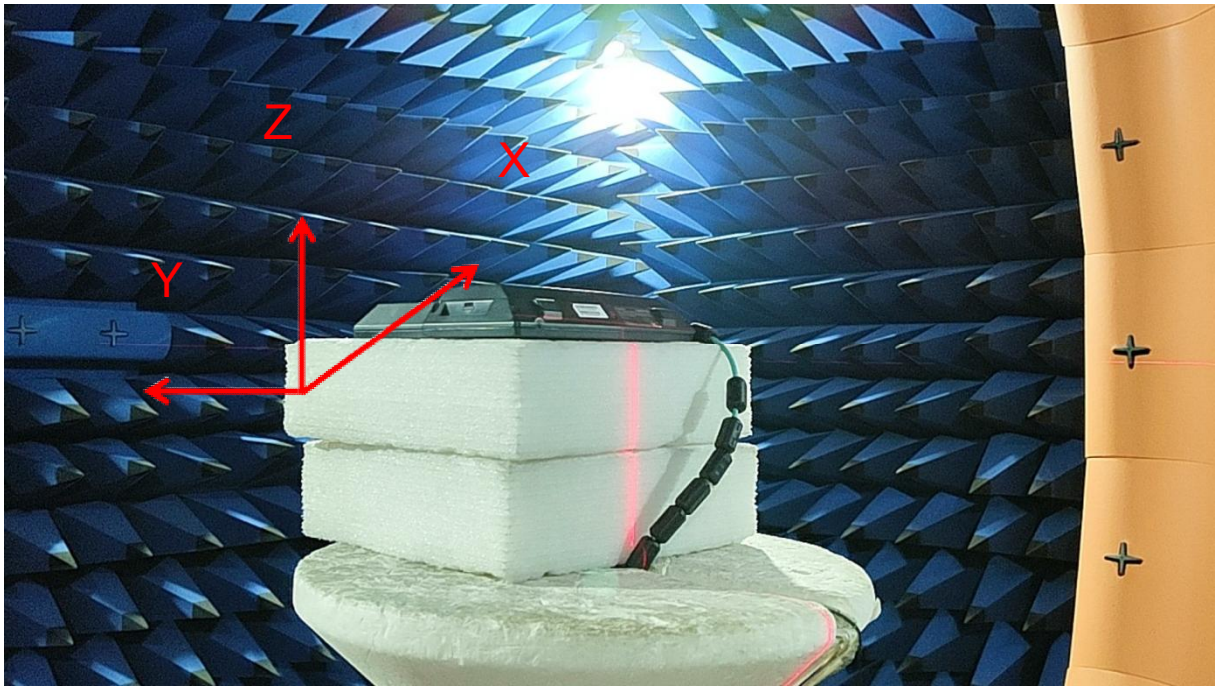
Antenna Passive Test





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Passive Test For WiFi Antenna(2.4G)			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	61.2	-2.1	5.0
2410	61.4	-2.1	4.9
2420	60.5	-2.2	4.8
2430	61.4	-2.1	4.9
2440	61.8	-2.1	4.9
2450	64.6	-1.9	5.3
2460	61.8	-2.1	5.1
2470	65.3	-1.9	5.7
2480	63.1	-2.0	5.5
2490	64.6	-1.9	5.7
2500	61.2	-2.1	5.4

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Passive Test For WiFi Antenna(5.8G)			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	61.7	-2.1	3.6
5200	62.7	-2.0	3.8
5250	63.2	-2.0	4.1
5300	61.7	-2.1	4.0
5350	59.4	-2.3	4.0
5400	62.8	-2.0	4.3
5450	59.2	-2.3	4.2
5500	53.6	-2.7	3.8
5550	61.5	-2.1	4.9
5600	65.8	-1.8	5.1
5650	59.8	-2.2	5.1
5700	64.1	-1.9	5.3
5750	65.9	-1.8	5.2
5800	58.5	-2.3	4.4
5850	60.0	-2.2	4.4

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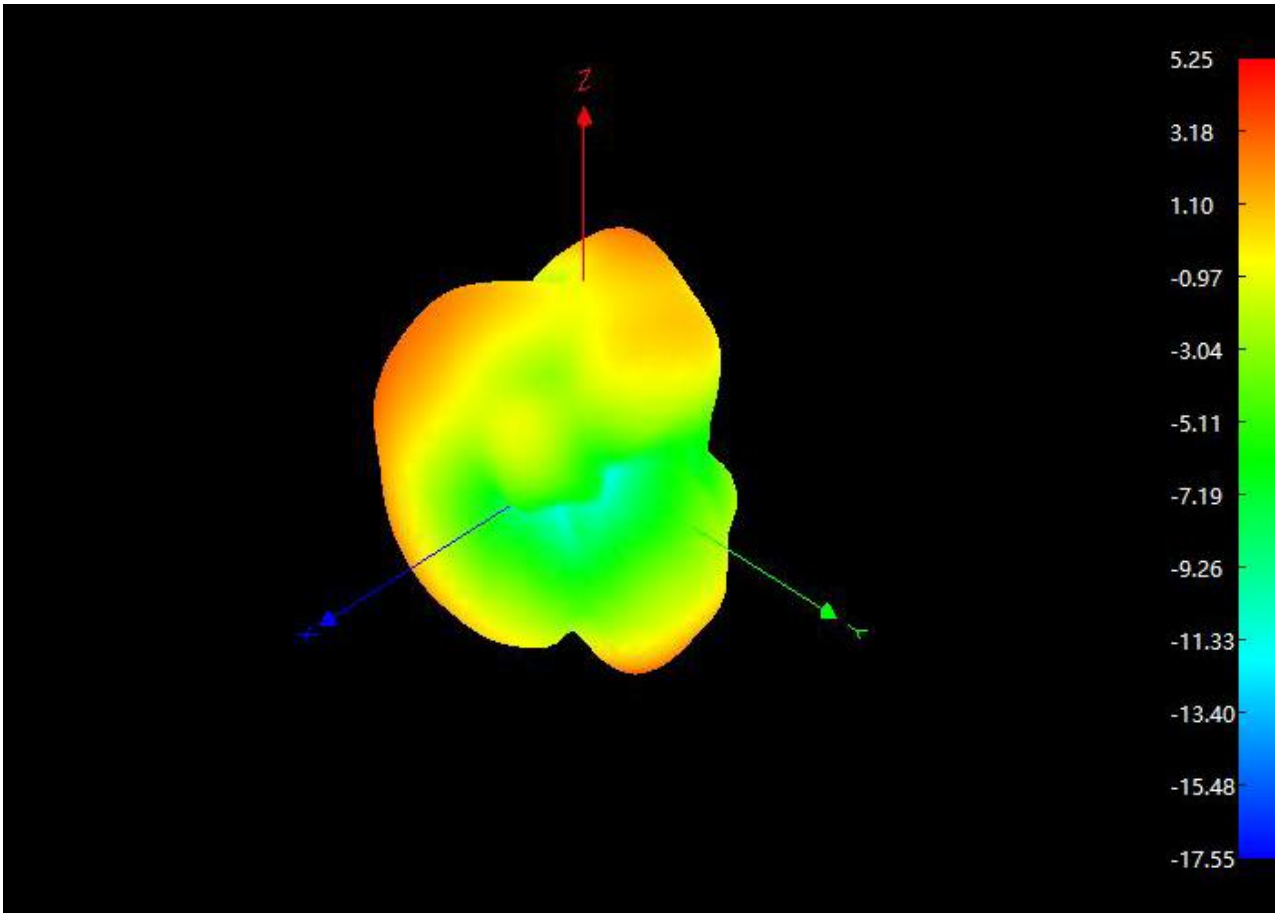
Radiation Pattern For WiFi Antenna(2450MHz)



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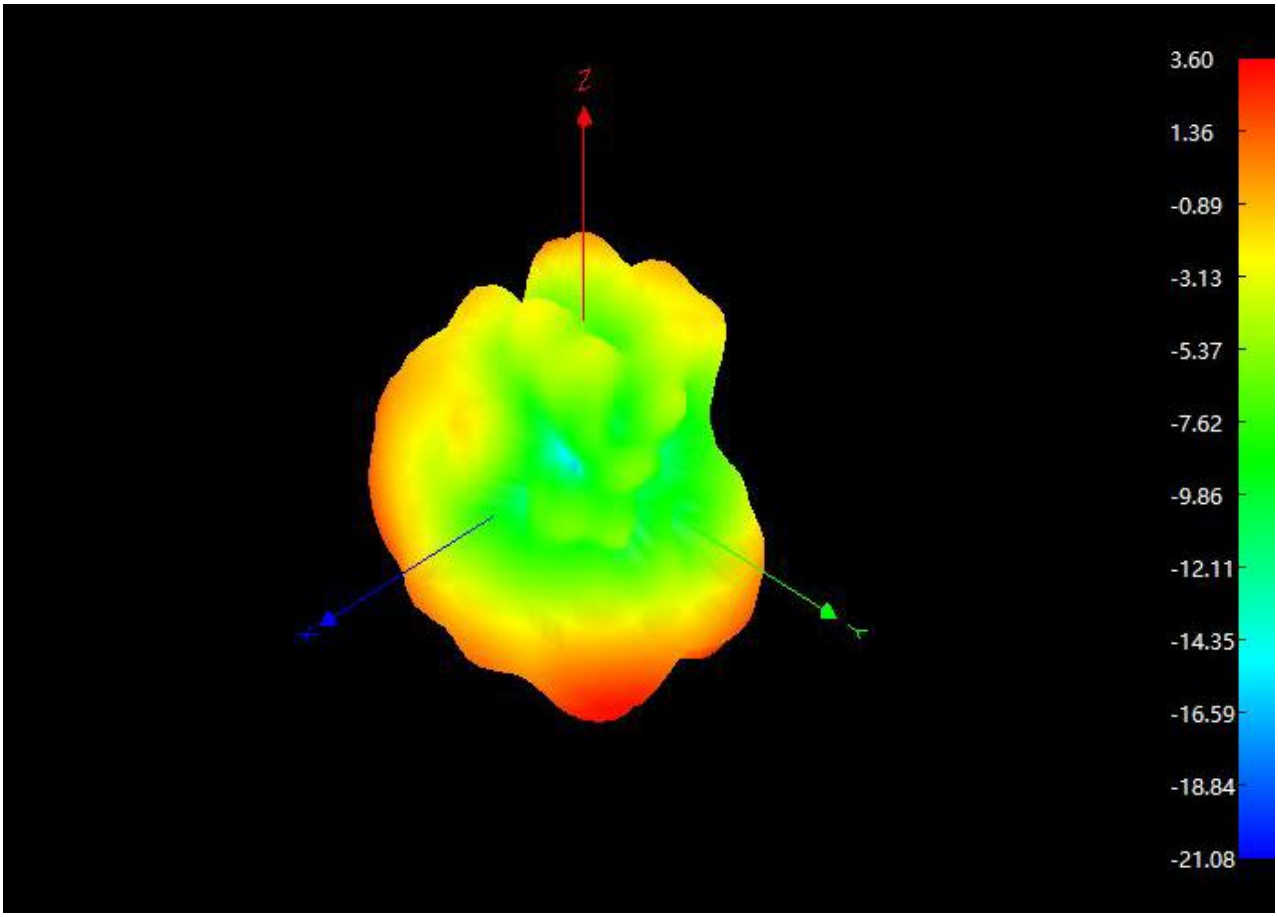
Radiation Pattern For WiFi Antenna(5150MHz)



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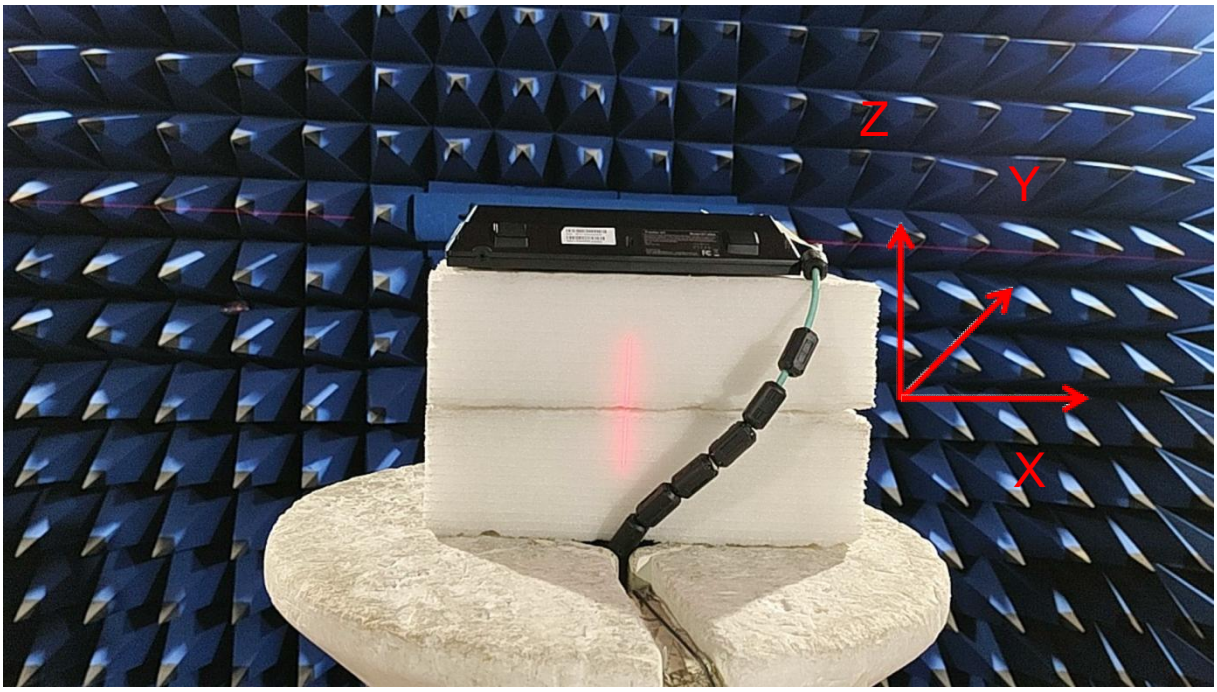

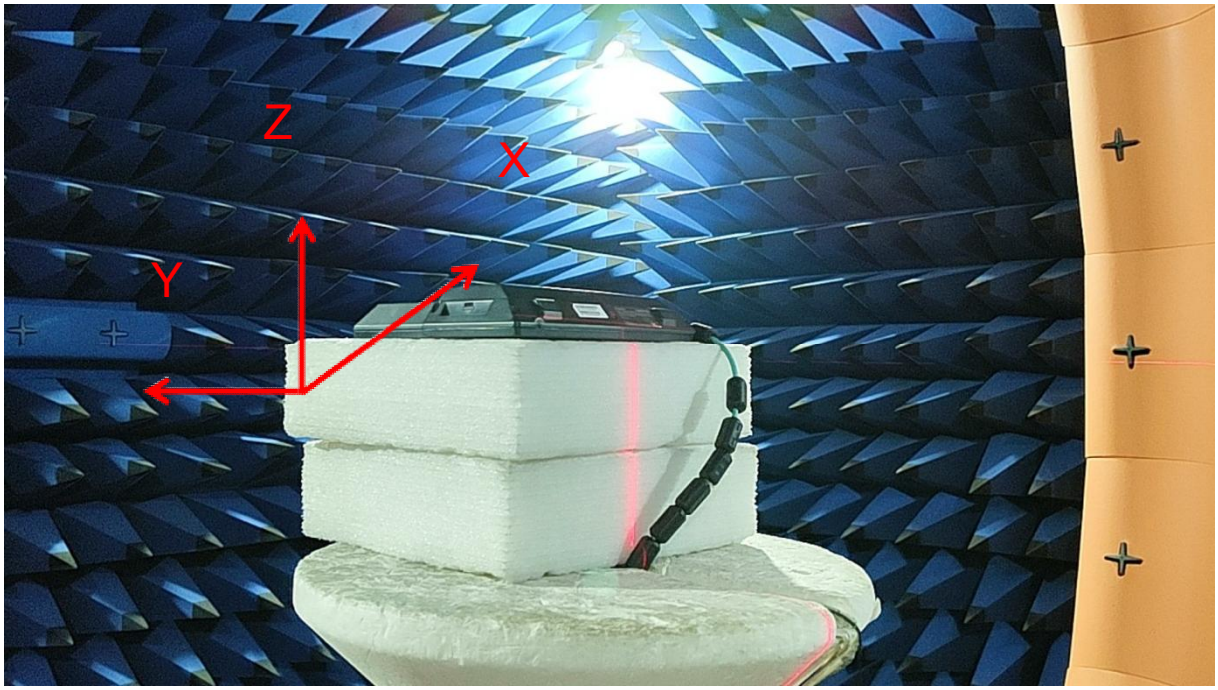

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Active Test For WiFi Antenna					
Band	**Channel**	**Data Rate**	**TRP**	**Data Rate**	**TIS**
WIFI 2.4G 802.11b	1	11Mbps	12.7	11Mbps	-84.4
	6		12.8		-84.0
	11		13.4		-84.0
WIFI 5G 802.11a	36	6Mbps	11.2	54Mbps	-71.9
	64		11.0		-70.6
	165		11.4		-70.2

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Device	

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WiFi Antenna	

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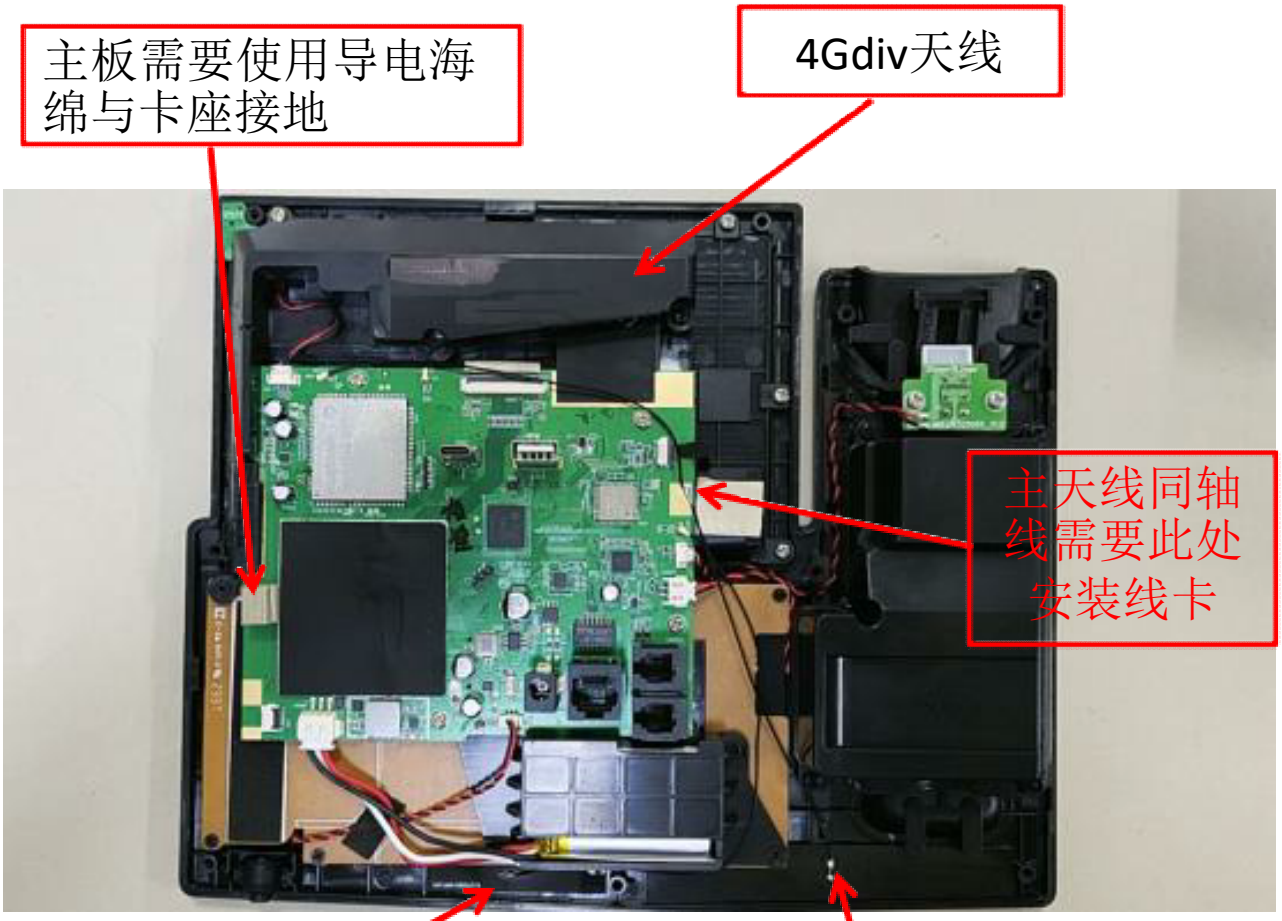

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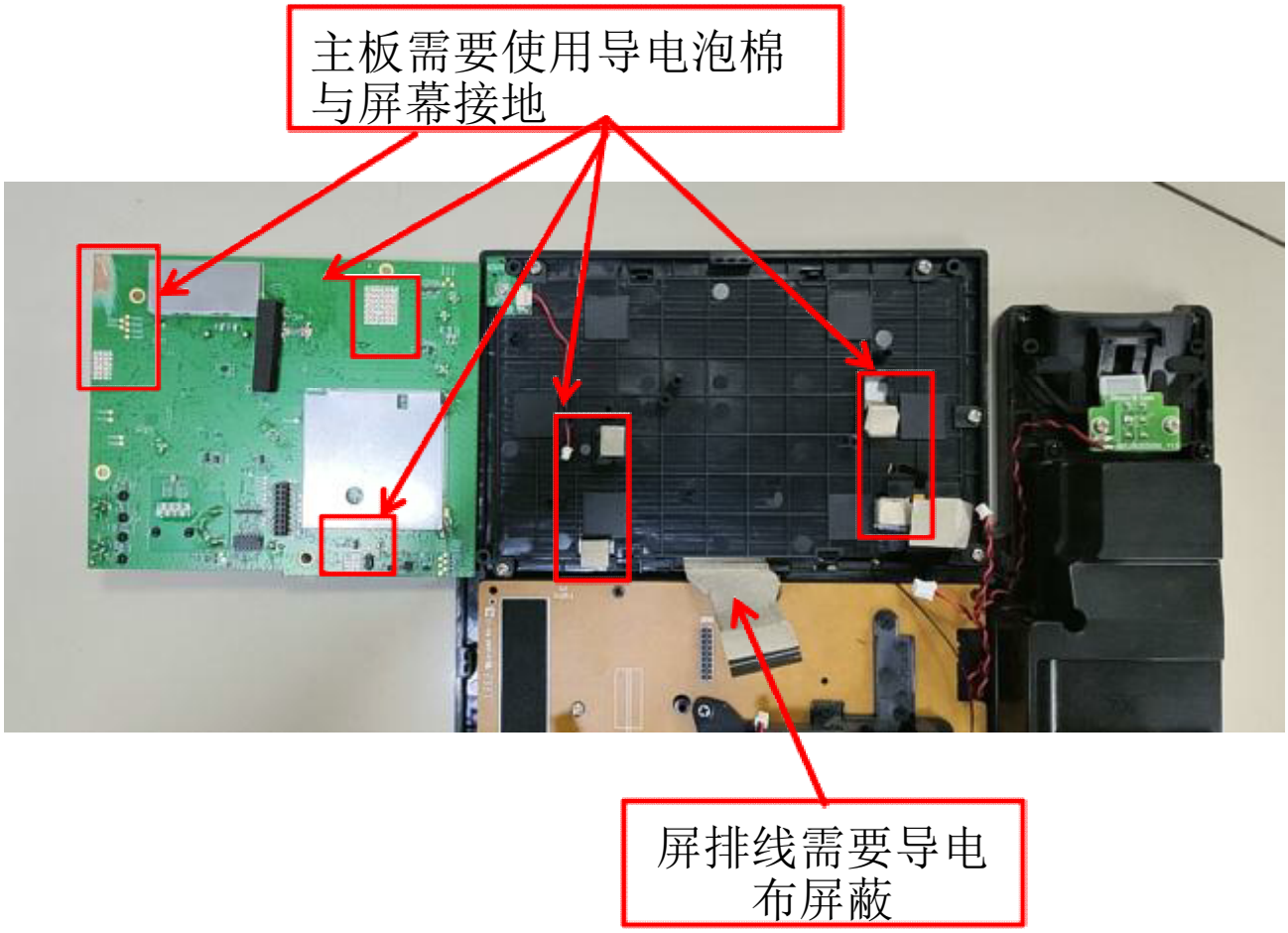

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