

招财进宝

专利证书



香港鑫恒陽股份有限公司

HongKong Xin hengyang Stock Co.,Ltd

深圳市鑫恒阳科技有限公司

ShenZhen XinHengYang Technology co.,Ltd



品牌强国

自主品牌优选示范工程



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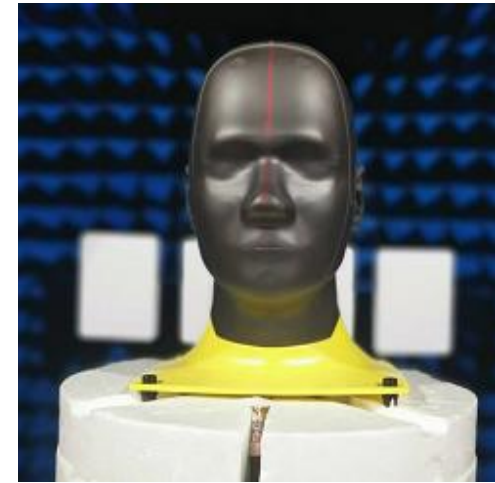
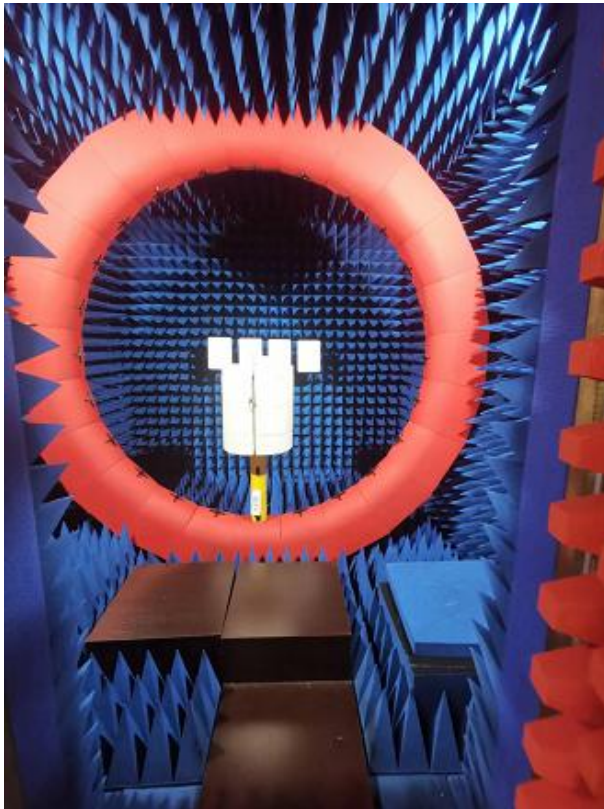


◆ Project information

CUSTOMER NAME:	XINZHENG YU
PRODUCT NAME:	TF15
R&D:	Xia Yi
DATE:	2025/08/06

◆ Test Equipment

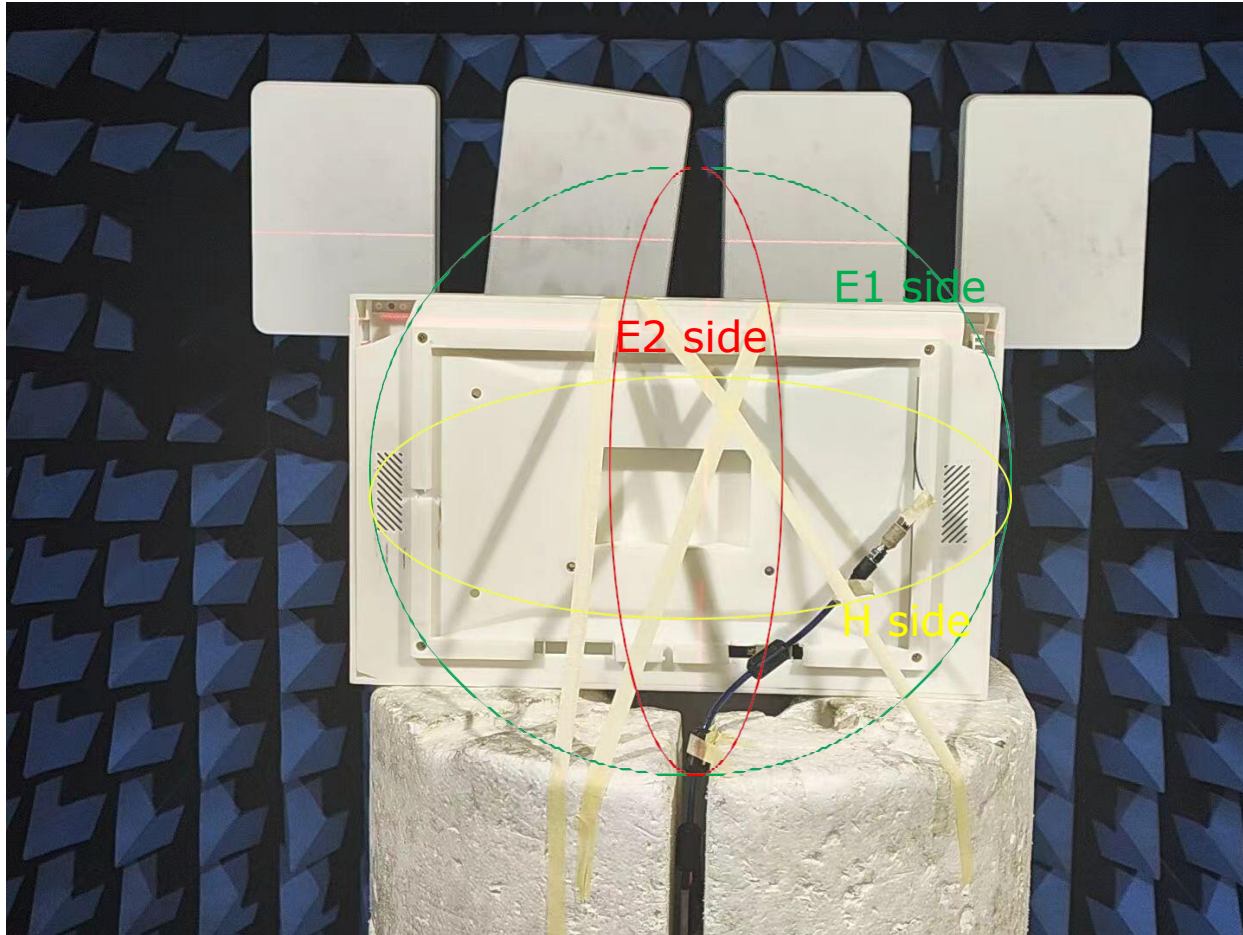
1. Active testing: Supports multi-mode measurements for 2.3.4.5G formats, NB-IoT, eMTC, CAT1, Bluetooth 1-5, WIFI 802.11 abgn, can measure TRP TIS.
2. Passive testing: Can test gain efficiency.
3. TWS headphone test head model, full set of mannequin hands.



◆ Machine image



◆ Test photo

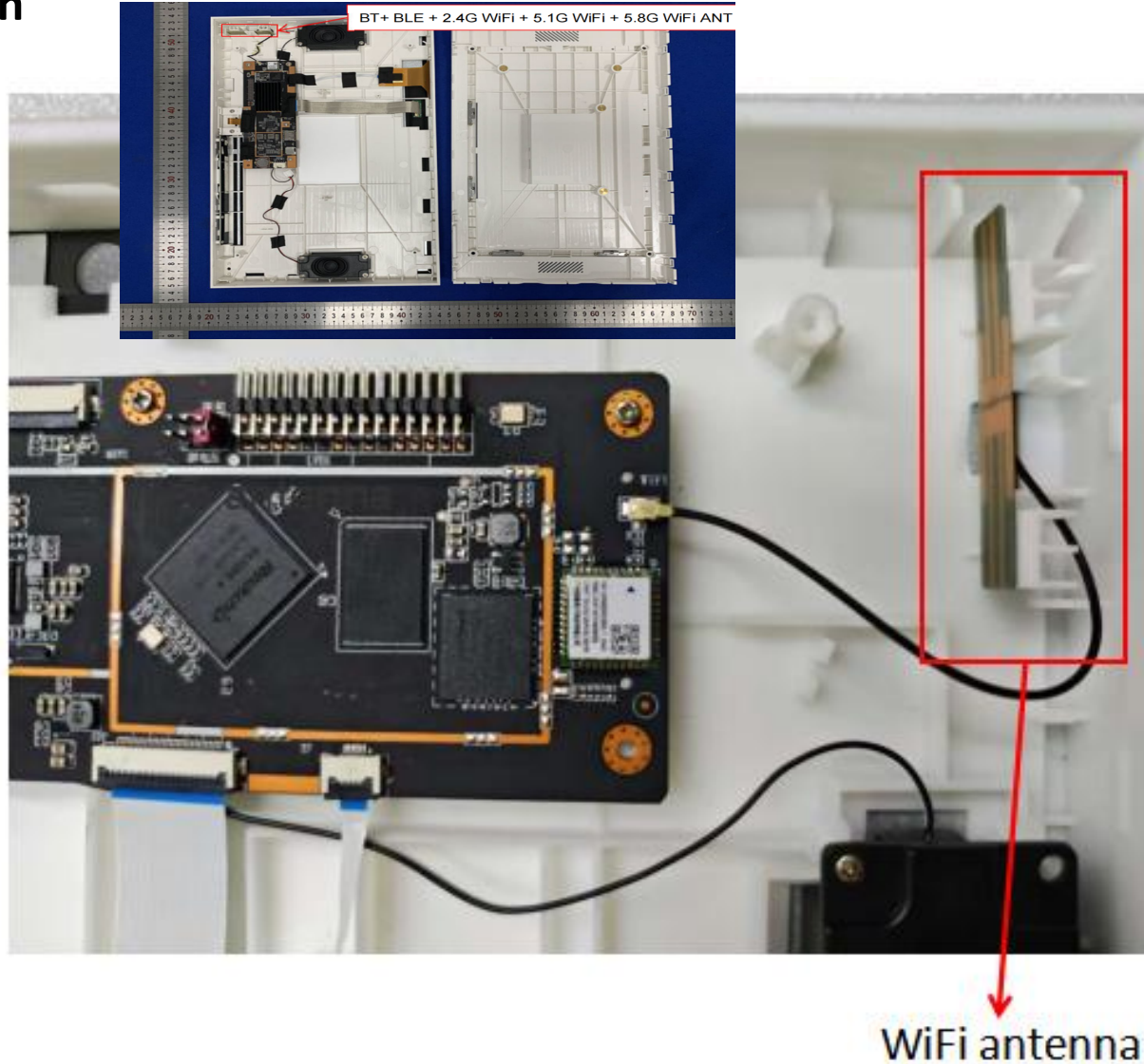




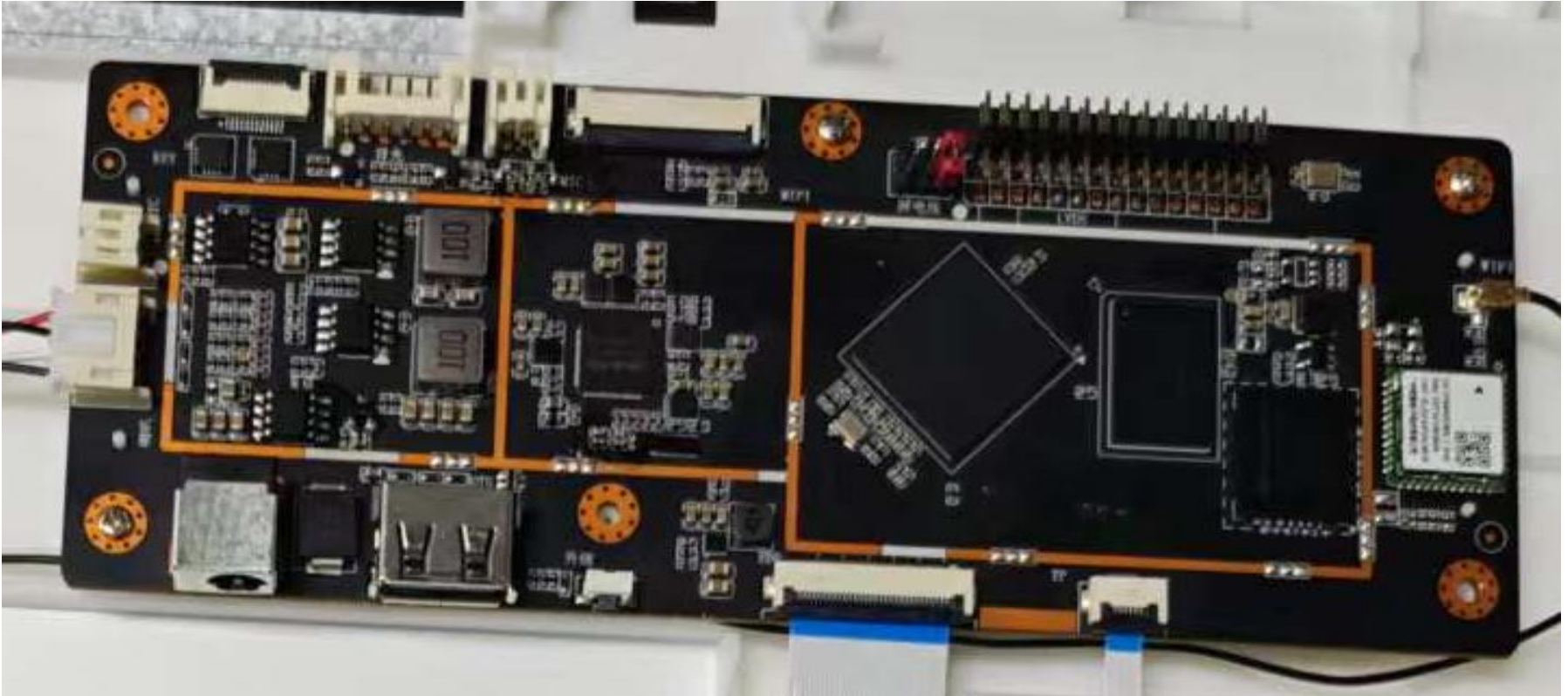
◆ Main board matching circuit

Matching parameter unchanged, customer-supplied original matching

◆ ANT Location



◆ Machine mainboard picture

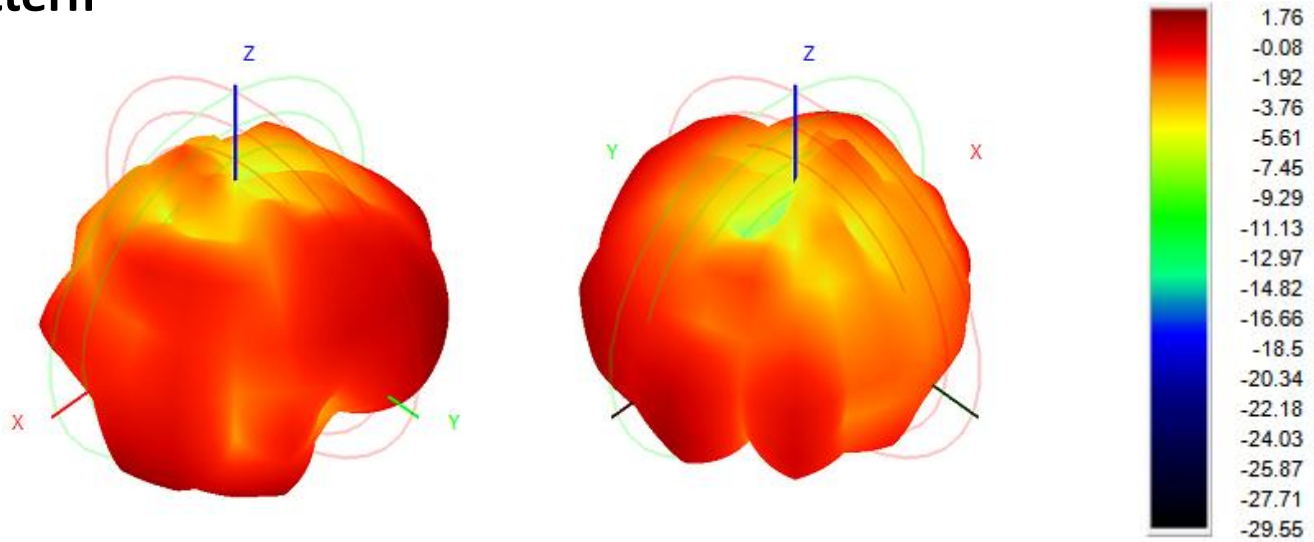


◆ Return Loss&VSWR

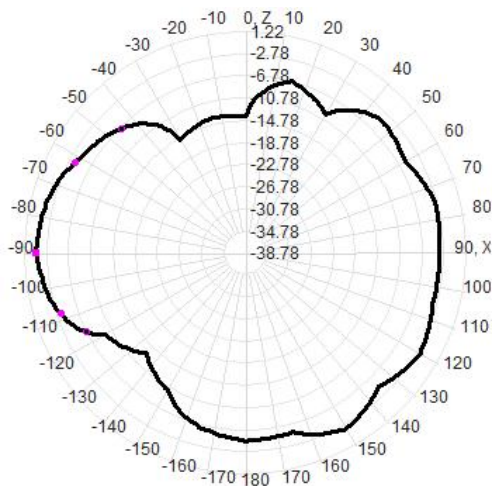


◆ Radiation pattern

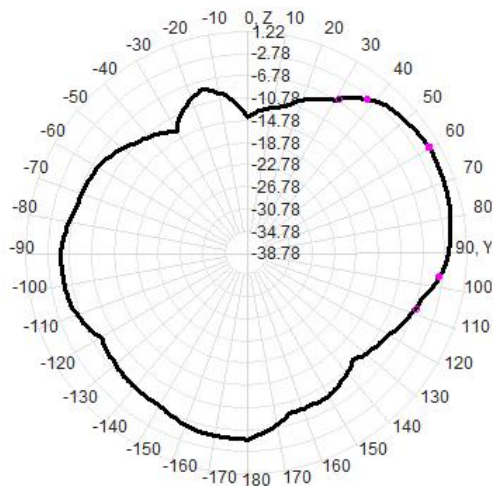
2400MHz



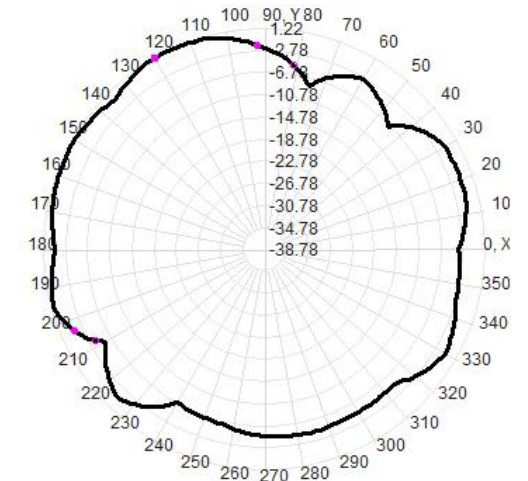
Total(E1-XZ)



Total(E2-YZ)

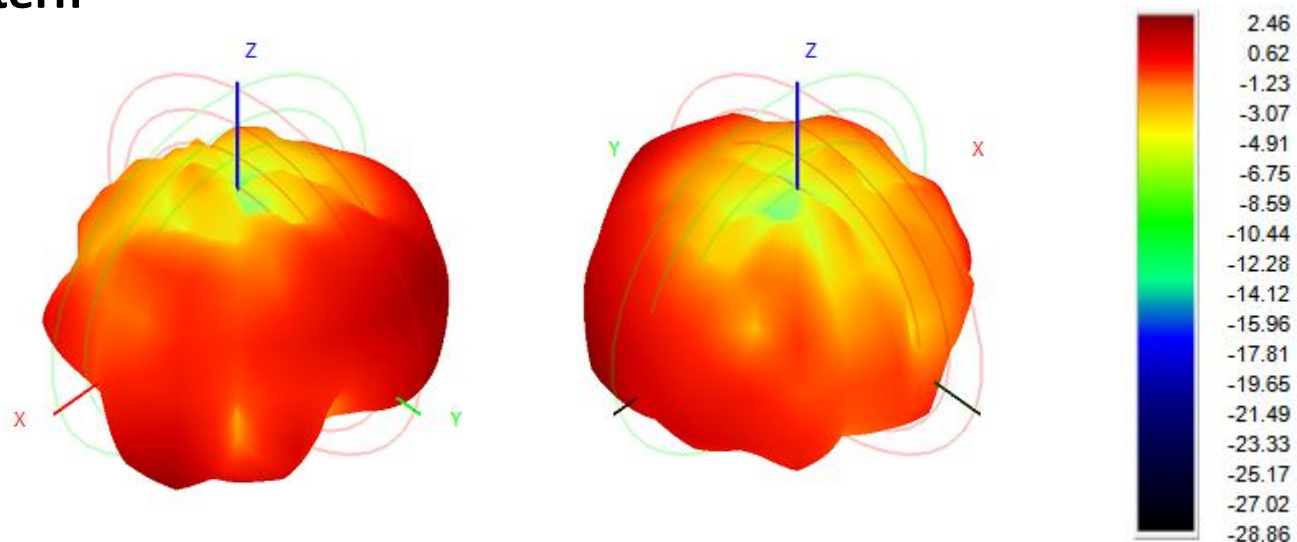


Total(H-XY)

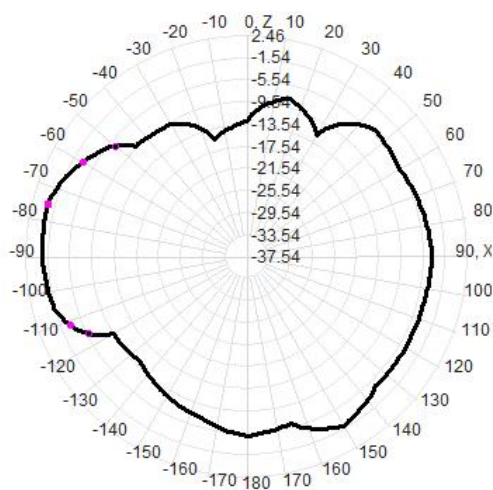


◆ Radiation pattern

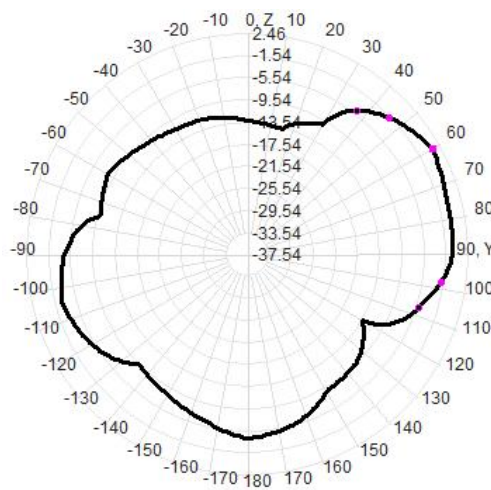
2450MHz



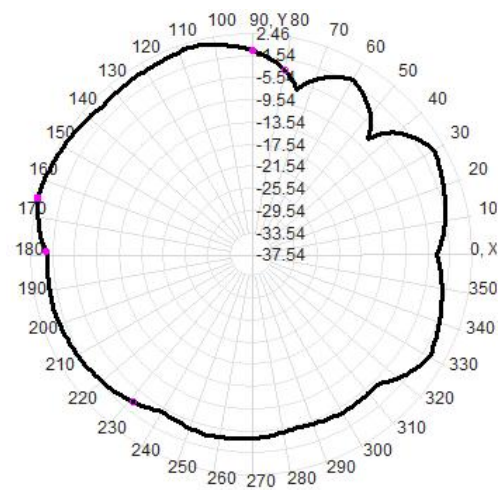
Total(E1-XZ)



Total(E2-YZ)

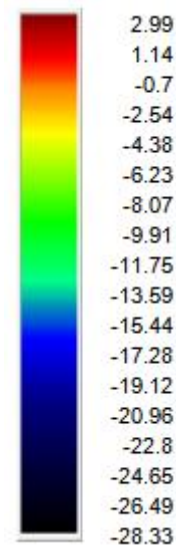
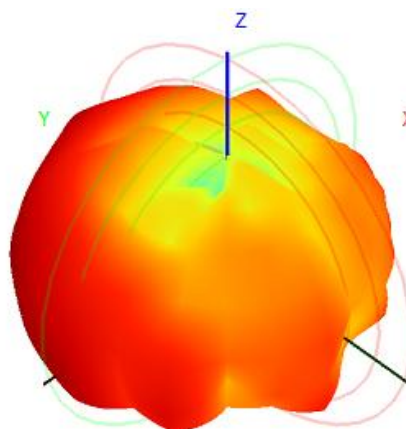
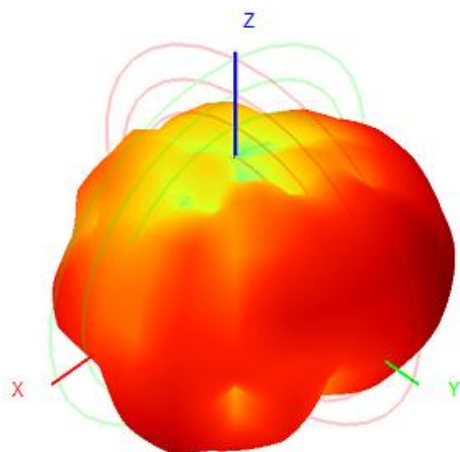


Total(H-XY)

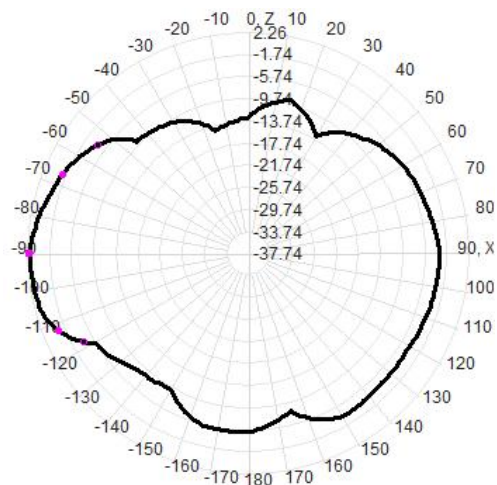


◆ Radiation pattern

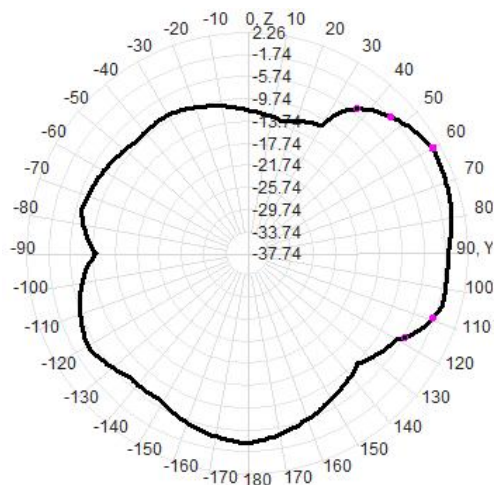
2500MHz



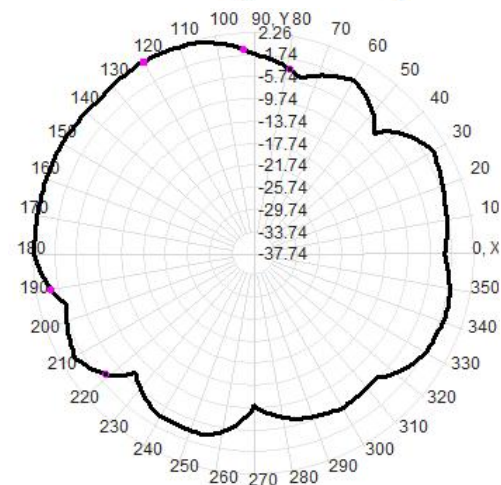
Total(E1-XZ)



Total(E2-YZ)

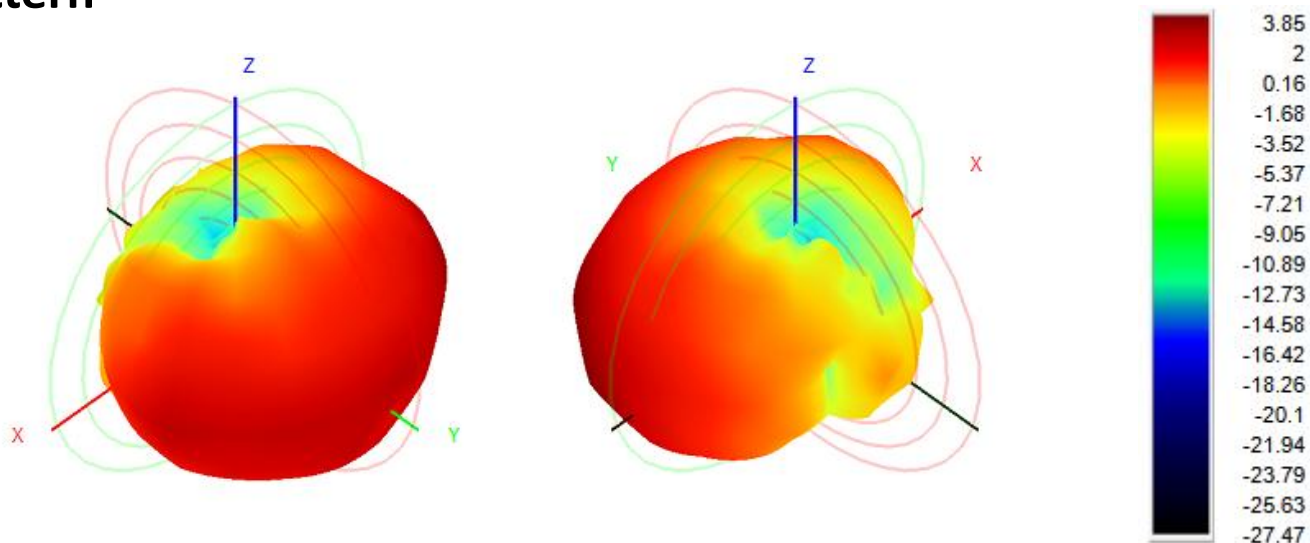


Total(H-XY)

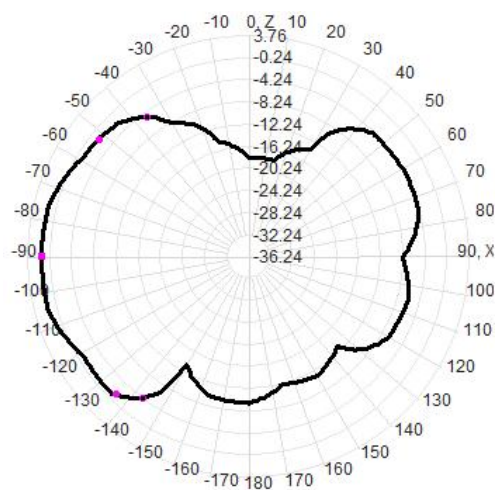


◆ Radiation pattern

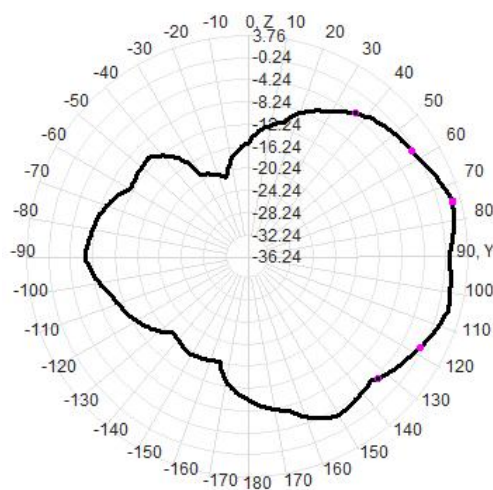
5150MHz



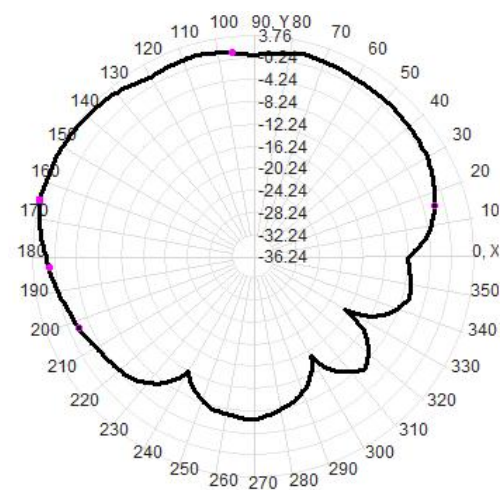
Total(E1-XZ)



Total(E2-YZ)

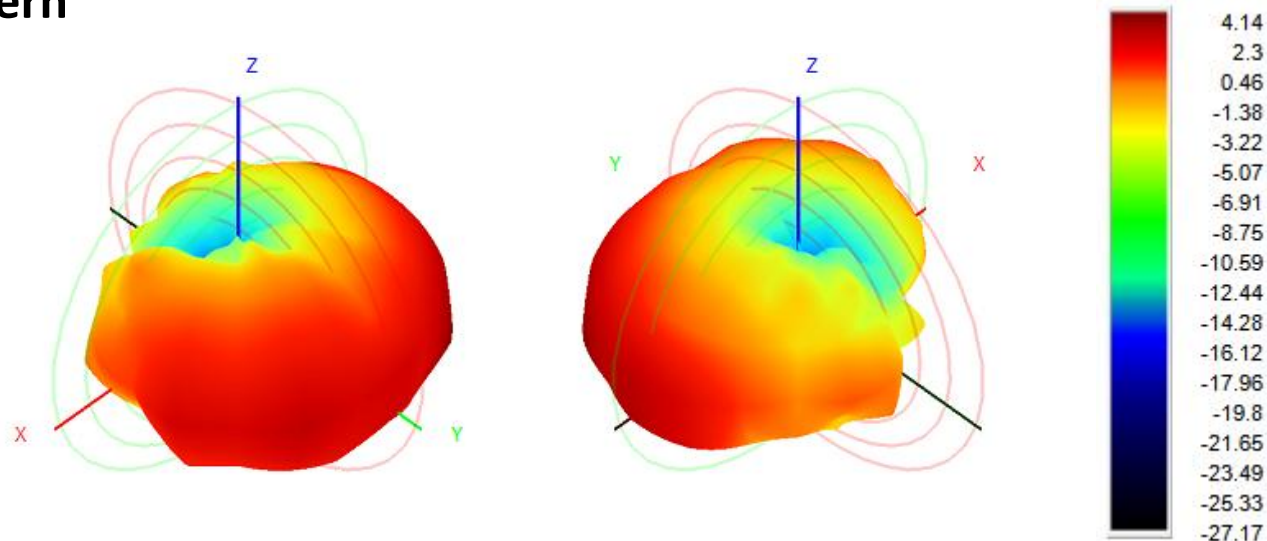


Total(H-XY)

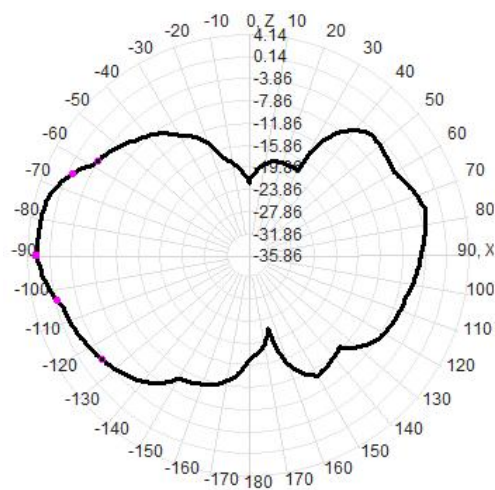


◆ Radiation pattern

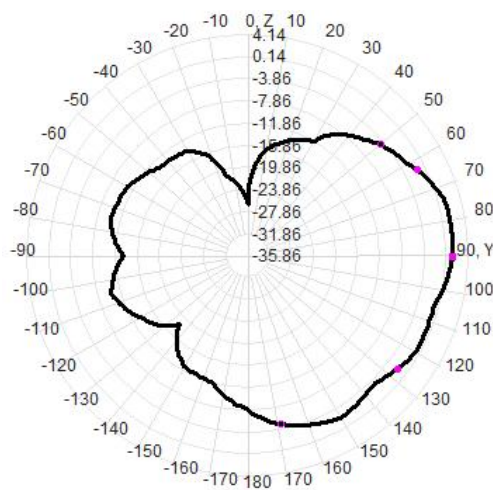
5500MHz



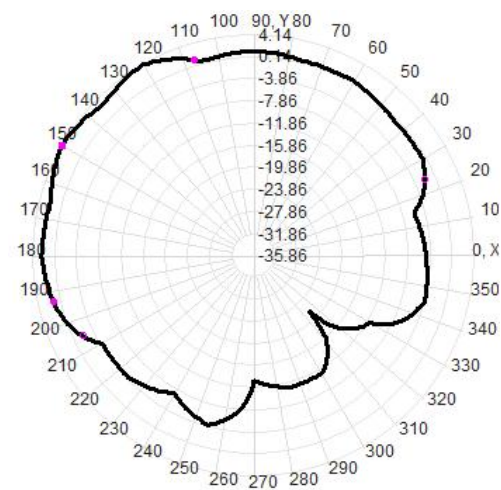
Total(E1-XZ)



Total(E2-YZ)

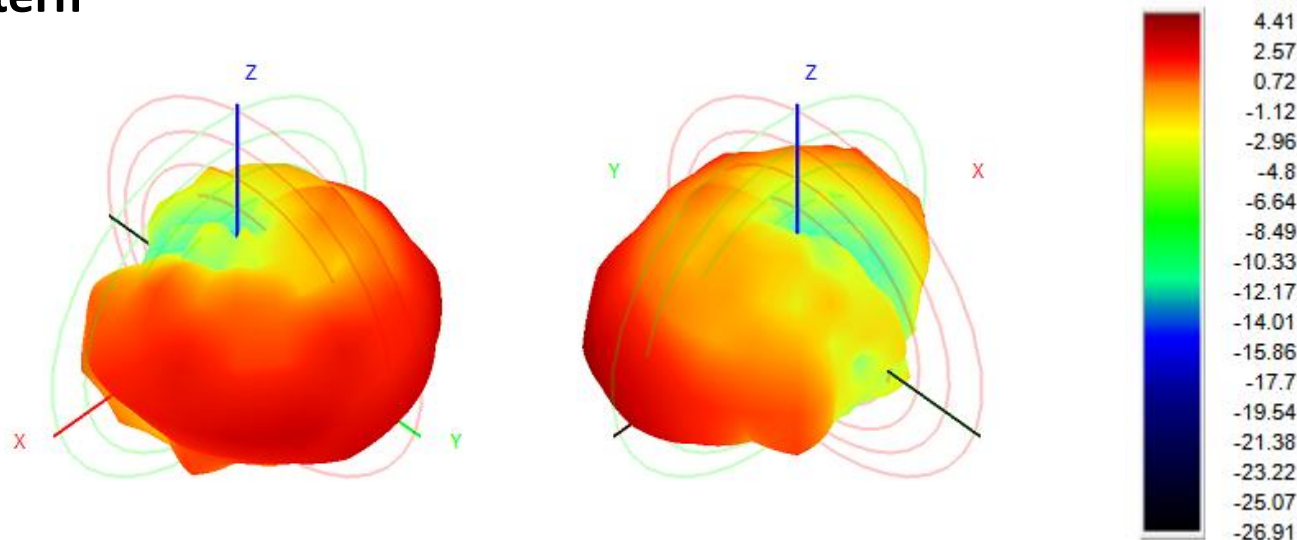


Total(H-XY)

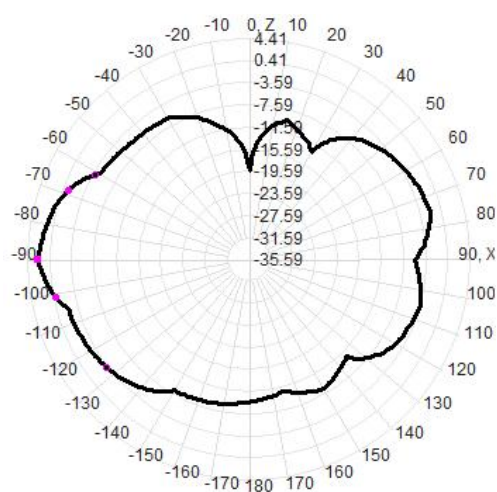


◆ Radiation pattern

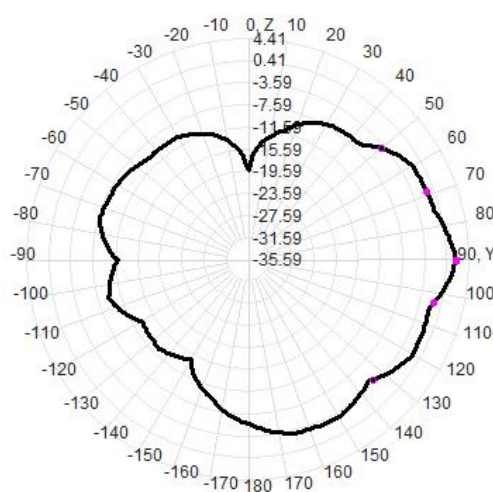
5850MHz



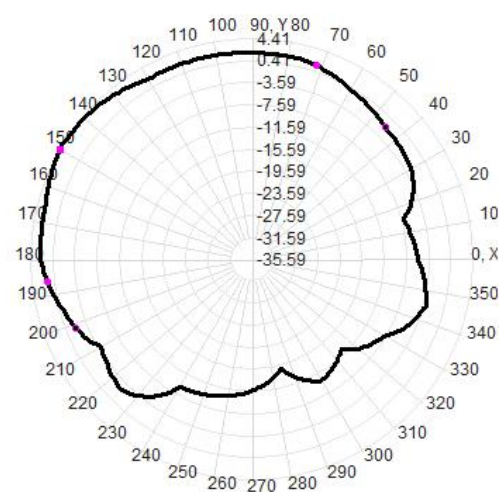
Total(E1-XZ)



Total(E2-YZ)



Total(H-XY)



◆ Passive efficiency and gain test report

Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
2400.0	-3.85	1.76	41.17
2410.0	-3.61	1.76	43.57
2420.0	-3.60	1.74	43.66
2430.0	-3.45	2.02	45.22
2440.0	-3.52	2.24	44.51
2450.0	-3.49	2.46	44.75
2460.0	-3.50	2.52	44.68
2470.0	-3.45	2.48	45.22
2480.0	-3.42	2.35	45.47
2490.0	-3.30	2.63	46.79
2500.0	-3.18	2.99	48.11

◆ Passive efficiency and gain test report

Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
5150.0	-3.15	3.85	48.38
5200.0	-3.28	3.48	47.01
5250.0	-2.51	4.70	56.07
5300.0	-2.92	4.86	51.07
5350.0	-3.22	3.85	47.64
5400.0	-3.11	3.71	48.86
5450.0	-2.92	4.97	51.01
5500.0	-3.55	4.14	44.19
5550.0	-3.30	3.97	46.74
5600.0	-3.48	3.70	44.87
5650.0	-3.84	4.67	41.34
5700.0	-3.67	4.86	42.93
5750.0	-3.56	4.14	44.10
5800.0	-3.80	3.52	41.72
5850.0	-3.70	4.41	42.67

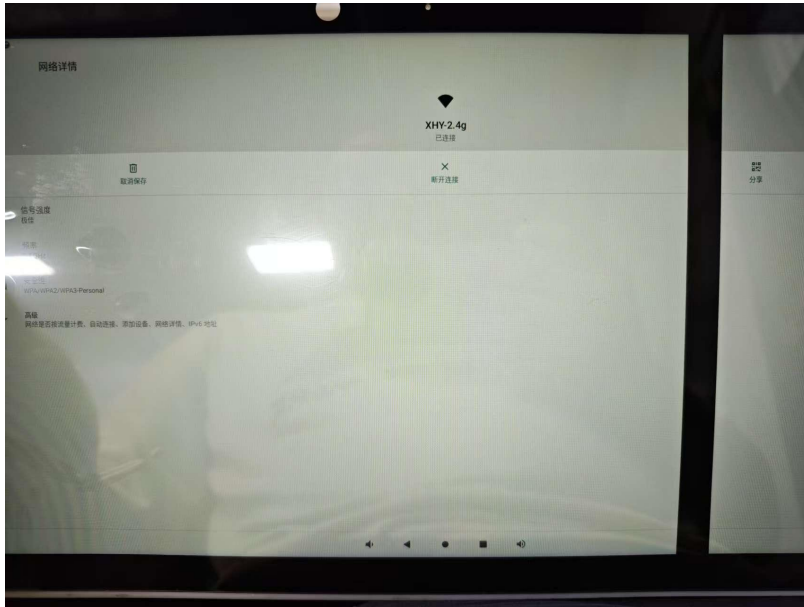
◆ OTA

Test Condition		Conduct data		XINHENG YANG antenna	
band	Channel	TRP (dBm)	TIS (dBm)	TRP (dBm)	TIS (dBm)
802.11B 11M	1	18.60	-87	14.03	-75.83
	6	18.80	-87	14.35	-76.23
	11	18.59	-87	14.68	-75.21
802.11G 54M	1	17.01	-76	13.51	-65.99
	6	17.55	-75	13.02	-65.38
	11	17.72	-75	14.29	-65.34
802.11N MCS7	1	17.81	-72	12.48	-61.26
	6	17.42	-72	12.74	-61.76
	11	17.55	-72	13.18	-62.18
802.11A 54M	36	18.80	-76	15.39	-74.33
	157	18.75	-76	16.05	-73.81
	165	18.01	-76	14.96	-73.33

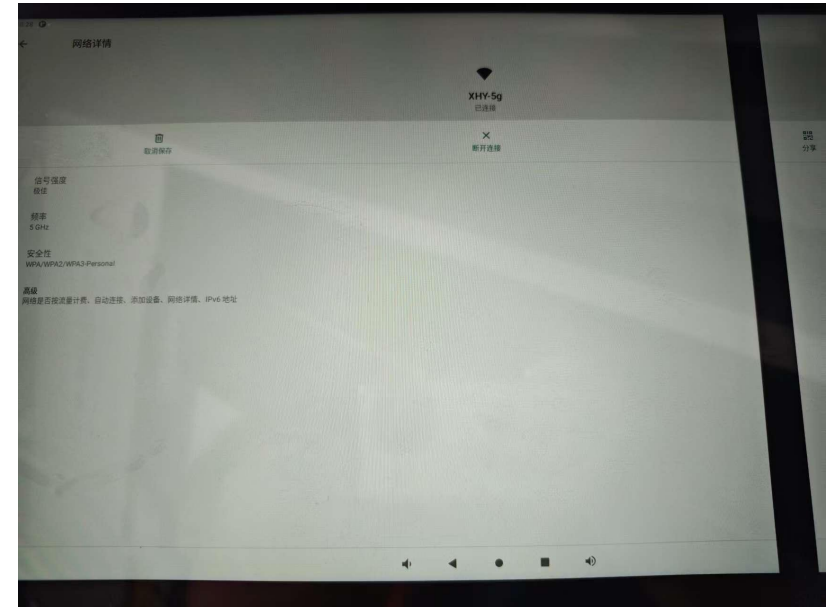
◆ OTA

Test Condition		Conduct data		XINHENG YANG antenna	
band	Channel	TRP (dBm)	TIS (dBm)	TRP (dBm)	TIS (dBm)
802.11AC MCS9	36	17.90	-65	14.60	-61.73
	149	17.80	-65	14.55	-62.20
	161	18.01	-65	14.79	-62.71
802.11AX MCS11	36	17.80	-64	12.70	-61.60
	149	17.49	-64	12.87	-61.25
	161	17.60	-64	13.25	-61.61

◆ WIFI actual test chart



As shown in the figure, the 2.4G signal is full at a distance of more than 18M from our company's router

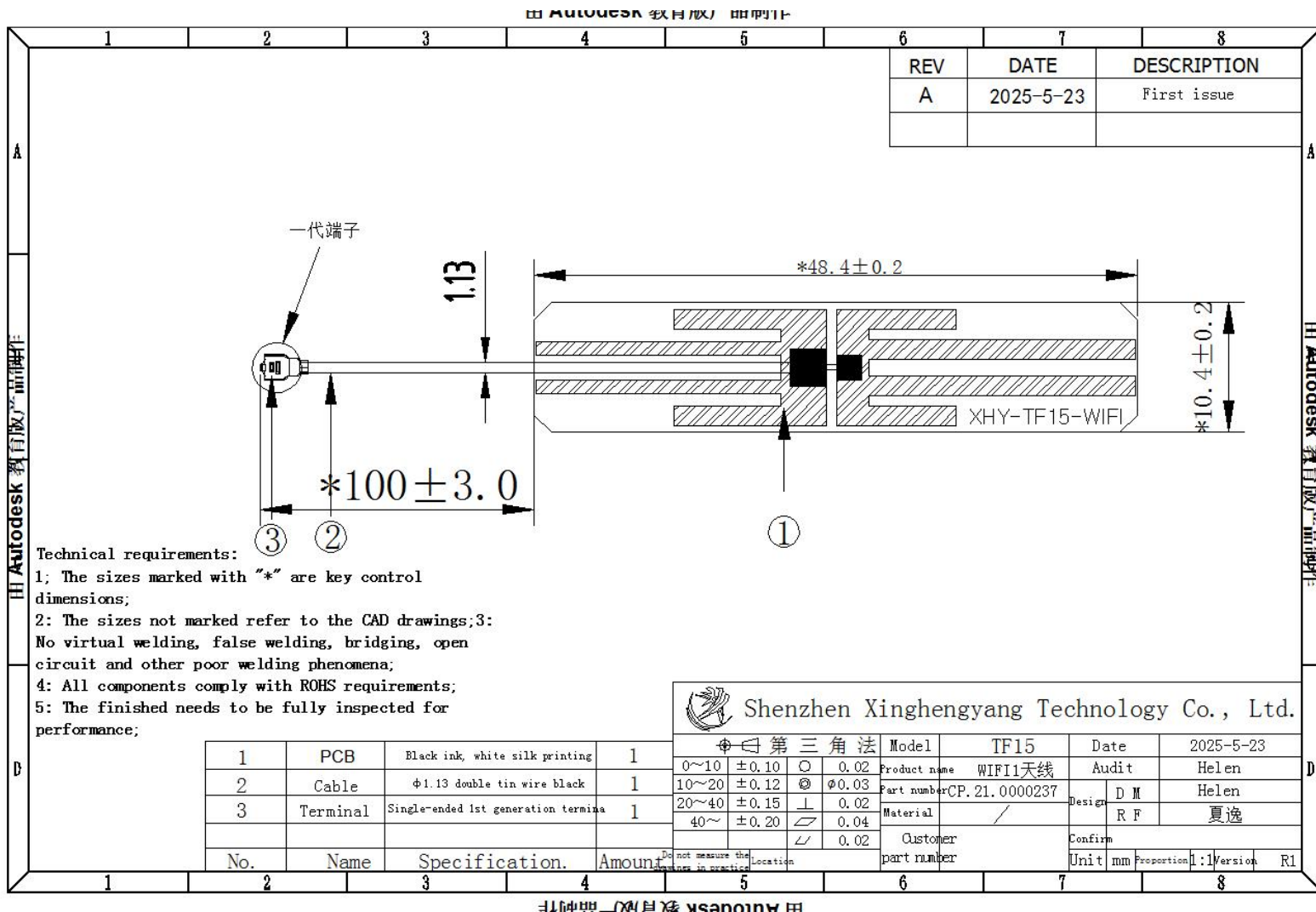


As shown in the figure, the 5.8G signal is full at a distance of more than 15M from our company's router

◆ BT test

Connect the Bluetooth of the test machine in our company for Bluetooth file transfer, and it can be transmitted normally without dropping the connection within 18M

◆ Antenna size chart





Shenzhen XINHENG YANG Technology Co., Ltd

**Thank you;
if there are any questions, please
communicate by phone.**

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