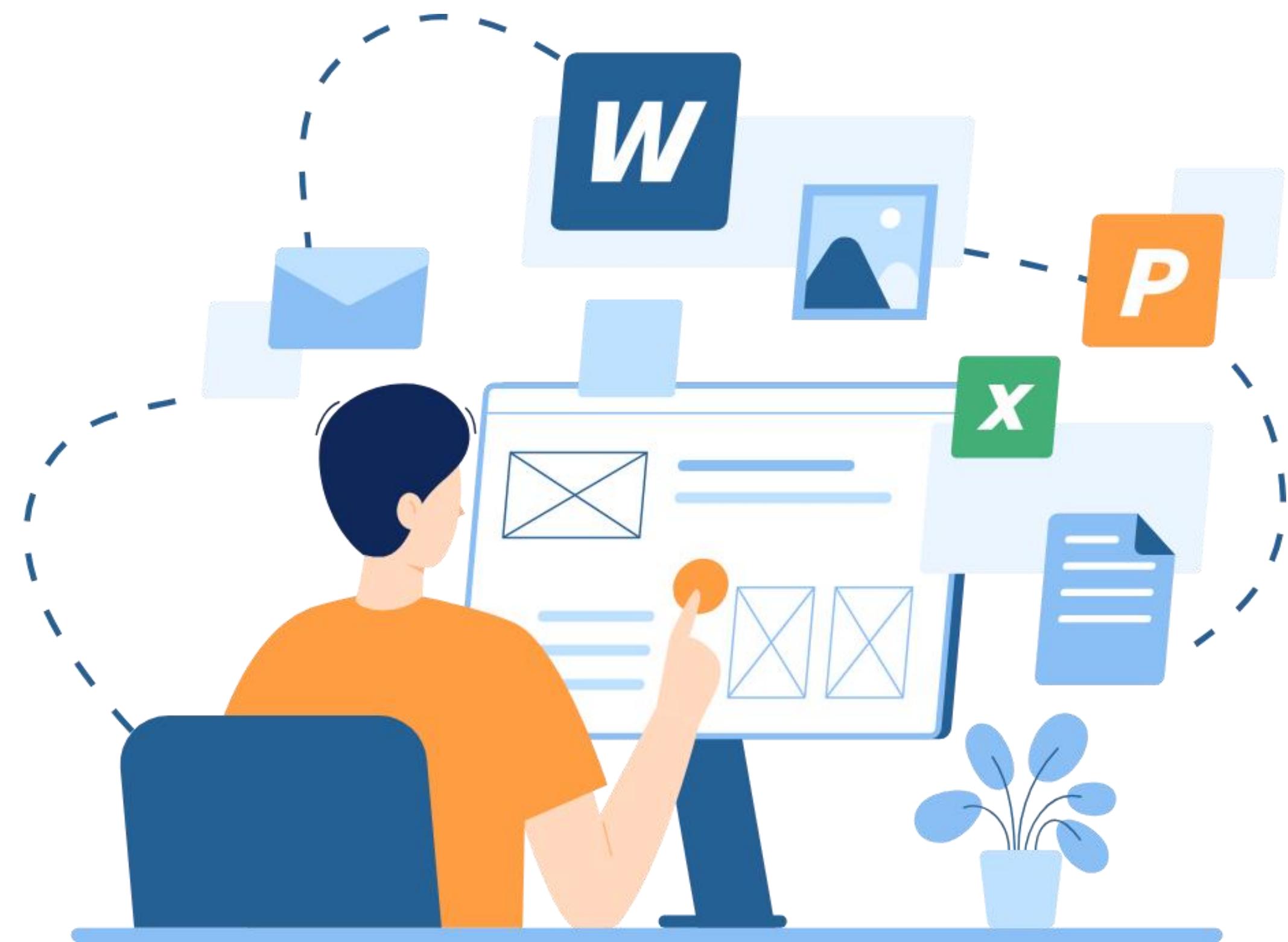




# Shenzhen HamyWe Technology Co Ltd

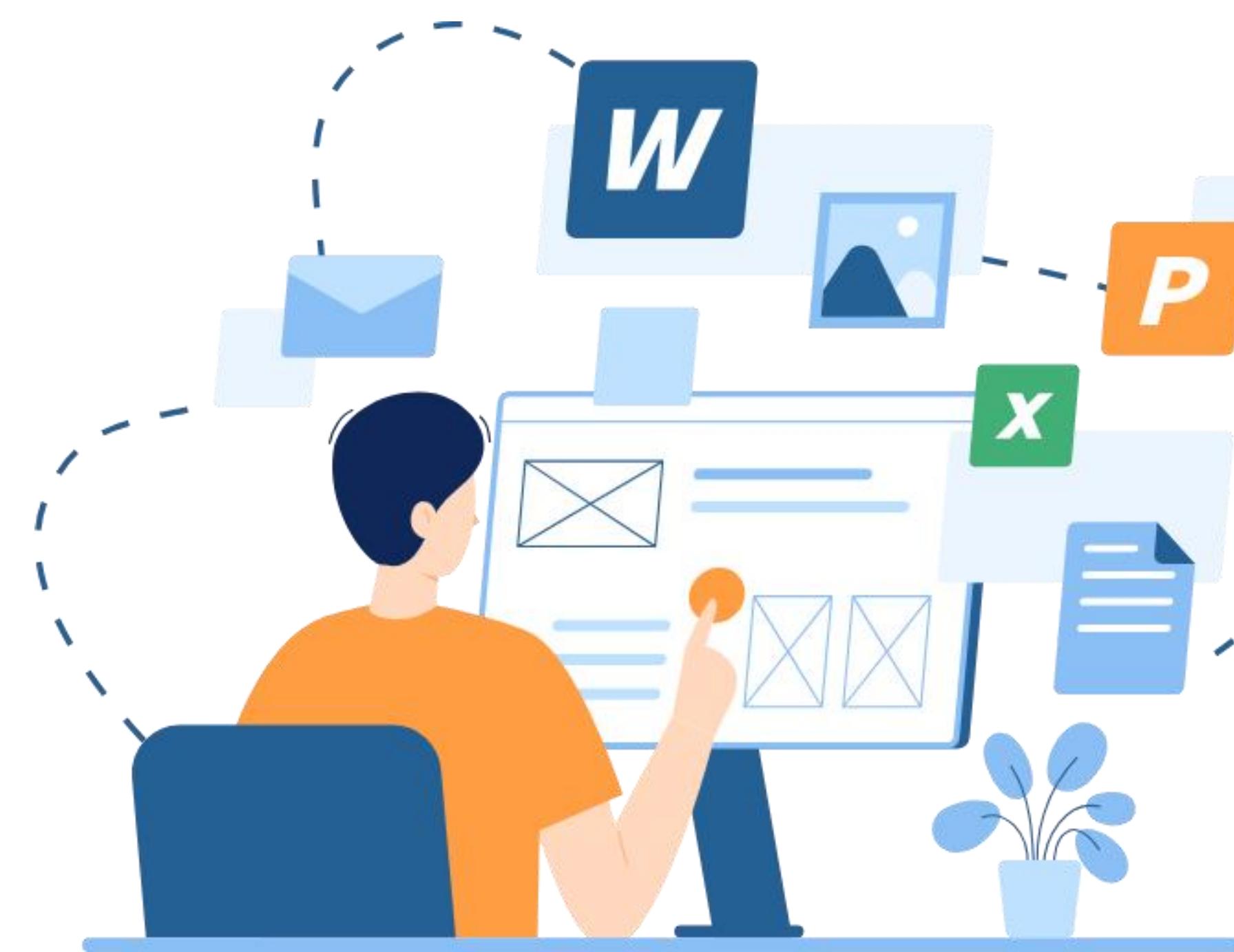
## battery camera antenna passive report

- Tested by: Guosong Li
- Tel: 15889324702
- Date: May 28, 2024





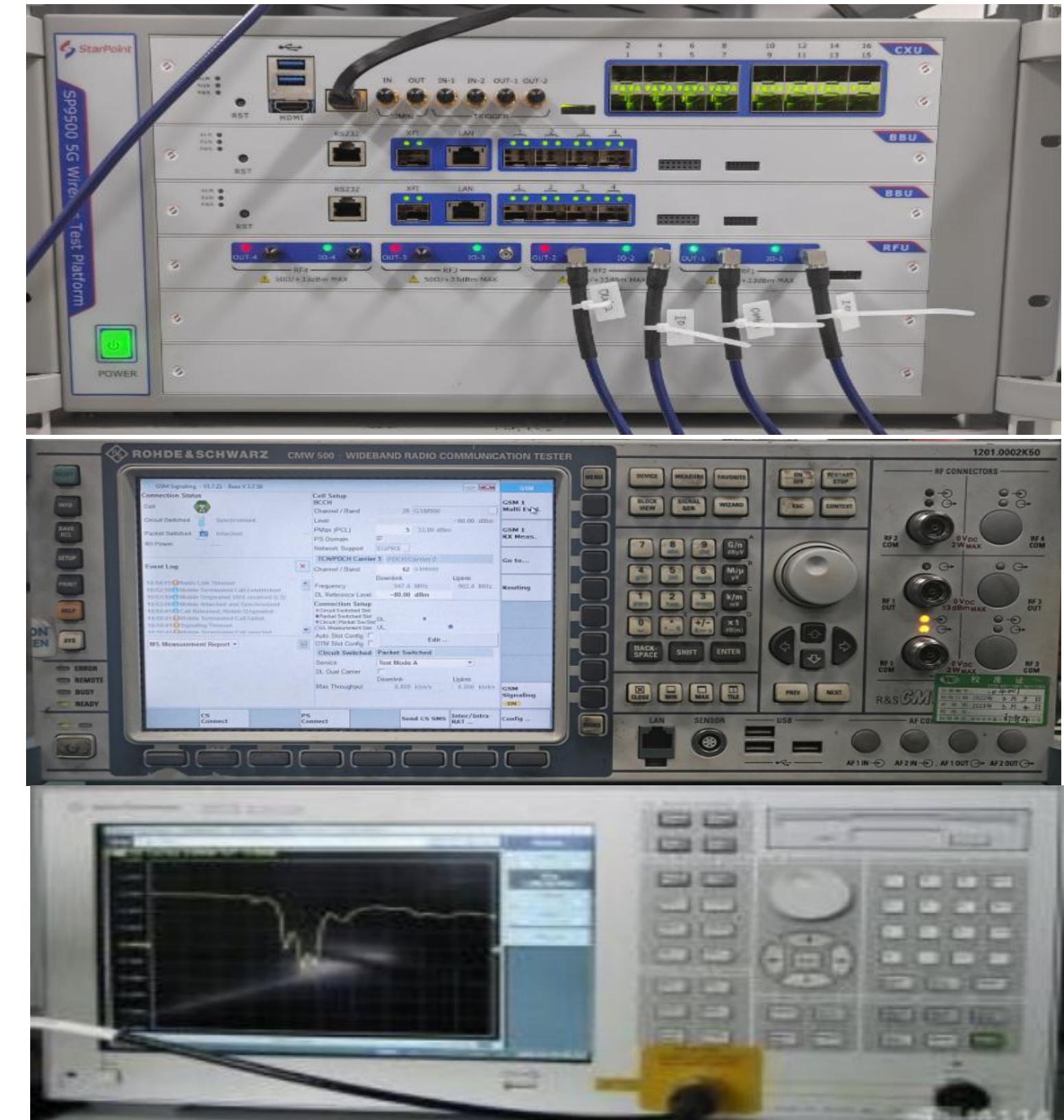
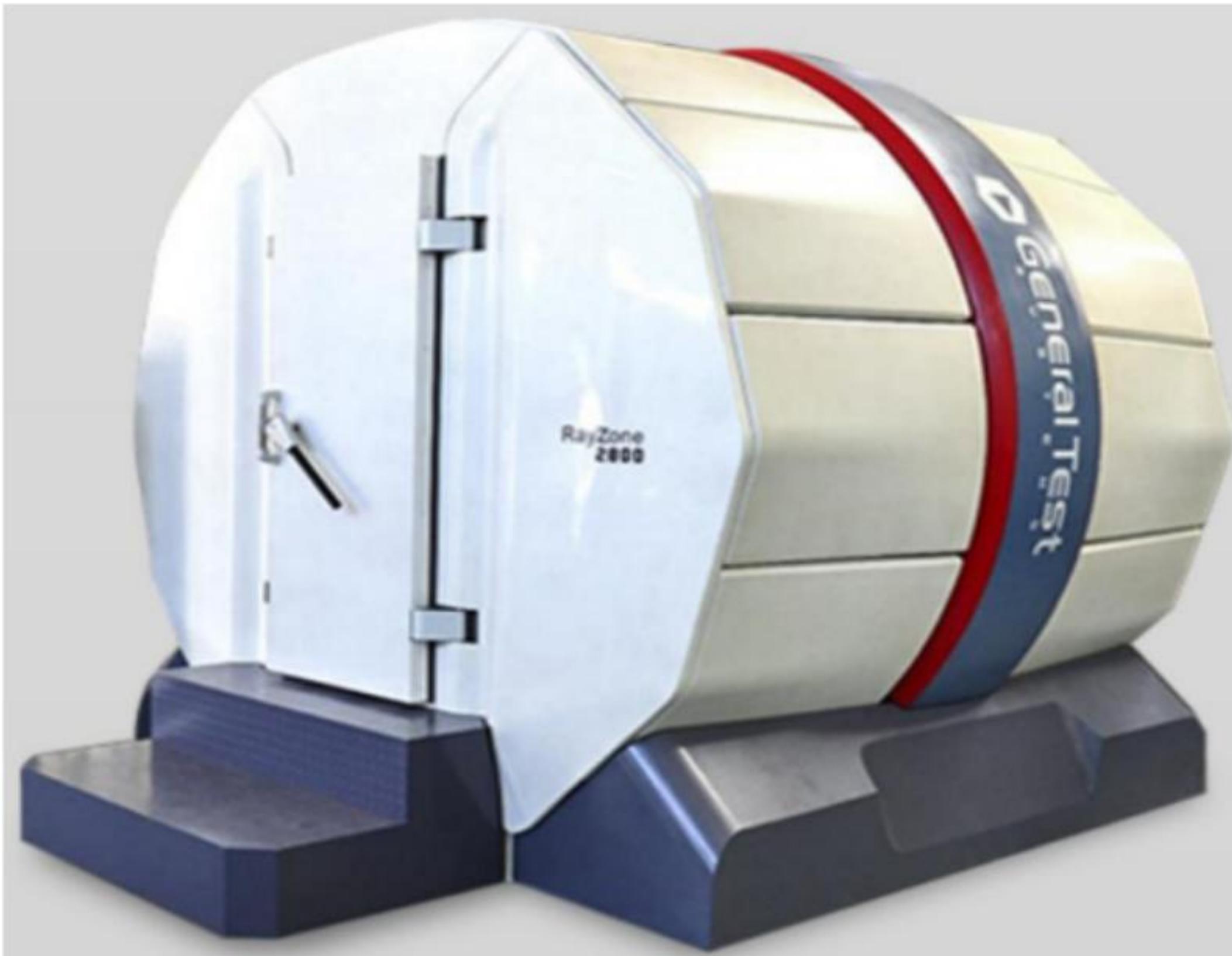
# Contents



- 1 Test Equipment
- 2 Project Description
- 3 Debug Version Log
- 4 Matching Records
- 5 S11 Parameter Testing
- 6 OTA Measurement Results
- 7 Important Notes

## Passive & Active Testing — 5G Anechoic Chamber

◆ Test System	◆ Test Environment	◆ Active Testing	◆ Passive Testing
GTS2800	Temperature : $22^{\circ}\text{C} \pm 3^{\circ}\text{C}$ Humidity : $50\% \pm 15\%$	Supports 5G/4G/3G/2G Supports BT/WIFI/GPS	600MHZ——6G



# Project Debugging Overview



Device Type	Battery Camera	
Antenna Type & Frequency Band	wifi	2.4GHz
Antenna Material/Form	BT	N/A
FPC		

# Debug Version History

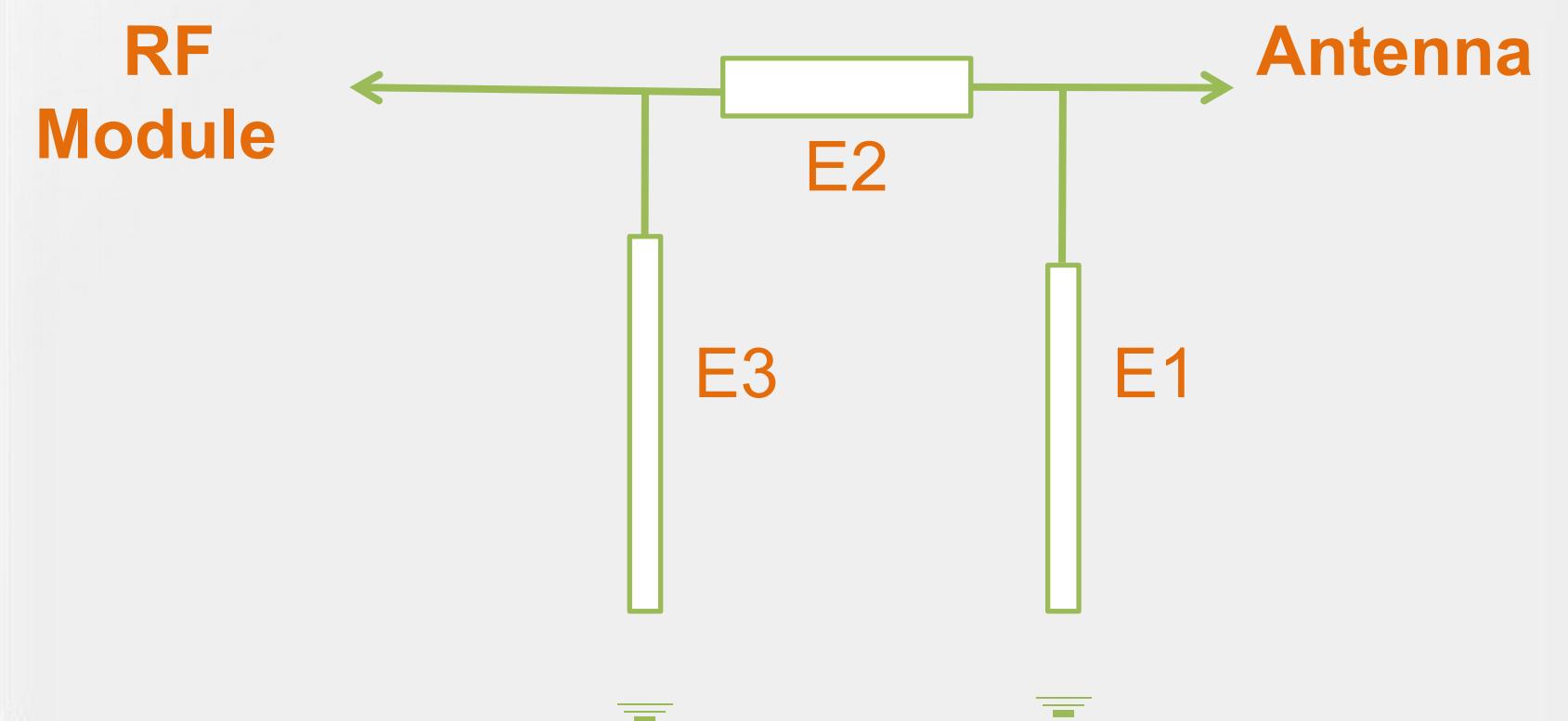
X2775



Version	Date	Change Description
V1	2024/4/19	Initial antenna tuning
V2	2024/5/28	Functional testing phase

## 匹配电路

匹配是否有改动  
否



# 驻波图

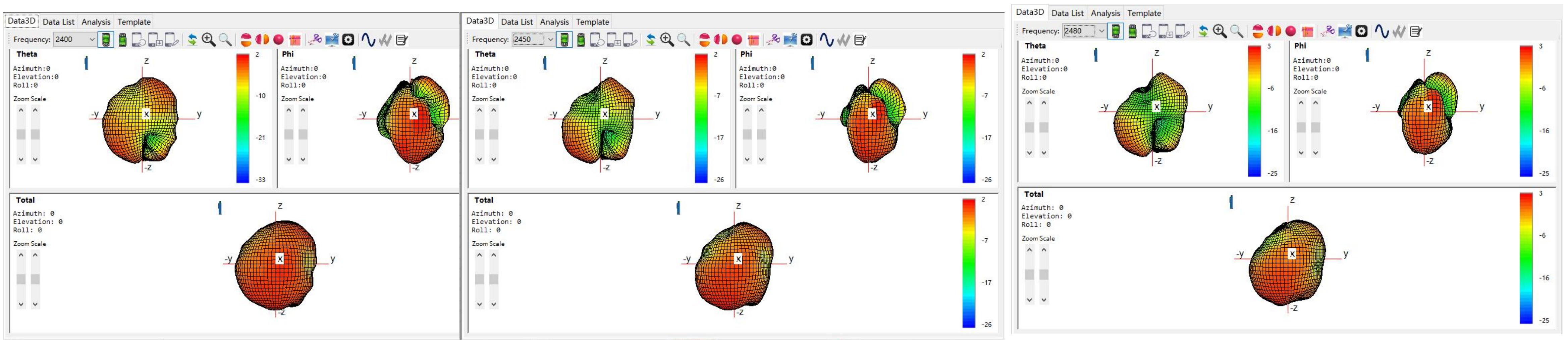


# GAIN & Efficiency

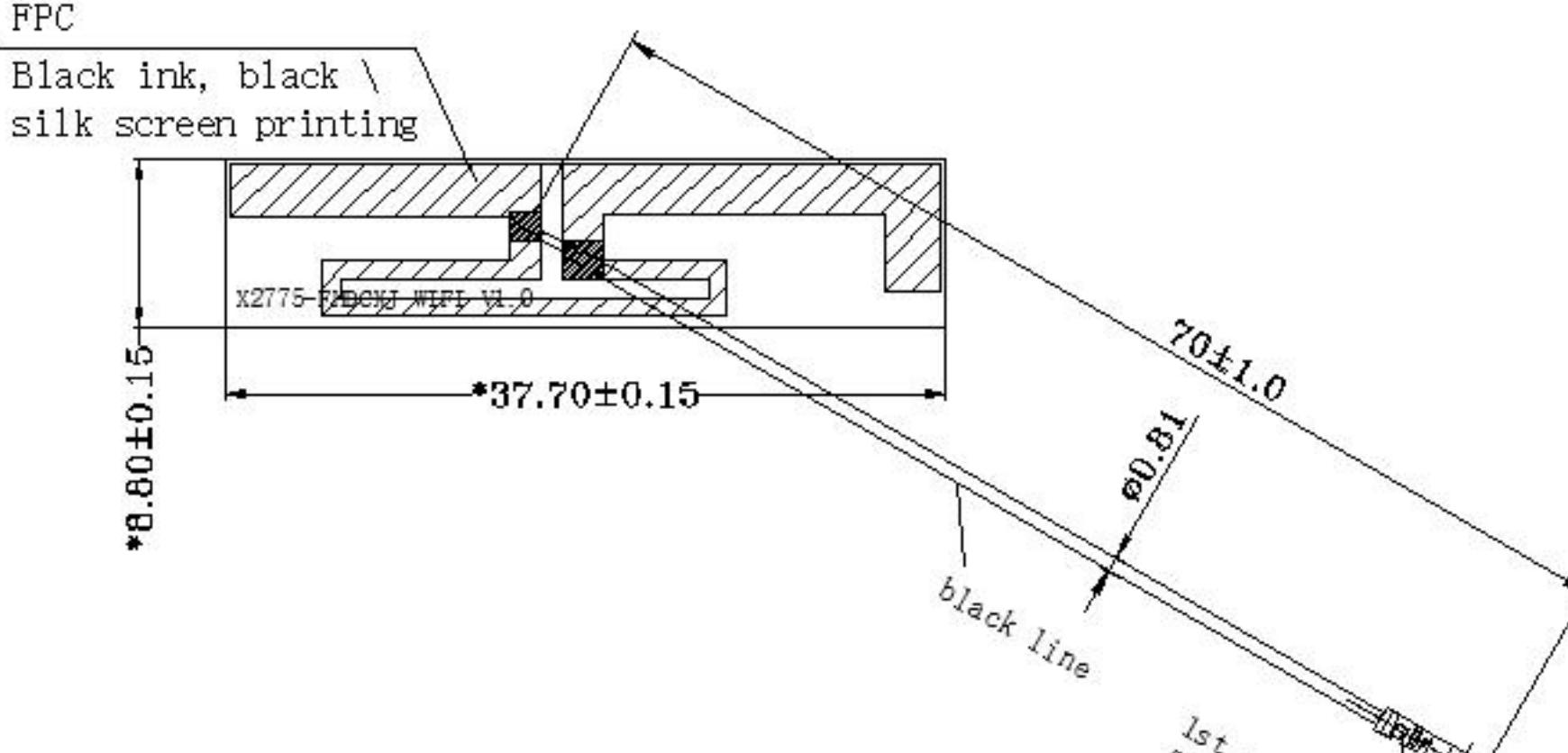
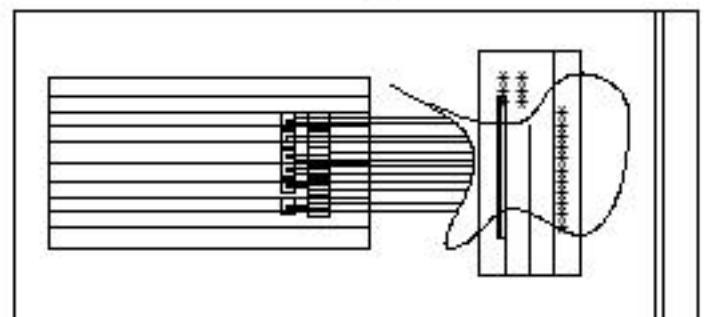


Frequency (MHz)	Gain(dB)	Efficiency(%)
2400	1.18	52.33
2410	0.96	52.32
2420	1.42	50.71
2430	1.59	52.27
2440	1.42	51.37
2450	1.89	51.86
2460	1.94	53.33
2470	2.24	53.45
2480	2.06	53.21
2490	2.59	52.71
2500	2.27	51.75

# 3D Radiation Pattern



# Antenna Size Diagram

1	2	3	4	5	6						
Environmental requirements : ROHS <input checked="" type="checkbox"/> REACH <input type="checkbox"/> No											
A				Packaging method 1: Terminals with exposed wire length greater than 80mm need to be wrapped with pearl cotton 2: PE bag packaging; 100PCS/package 3: PE bags need to be labeled with inner tags 4: The specifications of PE bags depend on the size of the product 							
	B	C	D								
C	technical requirement 1: * "Important dimension annotation 2: Comparison test graph of antenna voltage standing wave ratio; 3: The antenna welding part is firm and the cable size is accurate; Soldering should be full and round; There should be no oil residue on the surface. 4: The silk screen font is clear and not easy to peel off; 5. The inclination angle of the connector should not be greater than or less than 35° 6. The back is a back adhesive surface; Cut the centrifugal paper surface to the tearing position 7. There should be no copper leakage at the cutting port. 8. The product must comply with the EU RoHS requirements.										
	A	B	C	D	E						
	mark	change date	Changed by	Content-Change	remarks	First perspective					
	1	2	3	4	5	6					
	<b>Shenzhen HamyWe Technology Co., Ltd</b>										
	<b>unmarked tolerances standard</b>				Type of machine	X2775-FH	Product name	WIFI- FPC	Date	2025.03.27	
	XXX	±2	○	0.1	Material number	X2775-FHDCXJ-WIFI			N D		
	XX	±1	◎	Ø 0.05	material	PI	Special Process	R F			
	X	±0.5	⊥	0.05	pages in total	page 1	Auditor				
X	±0.2	//	0.05	First perspective		unit	mm	scale	Fit	edition	V01

# Important Notice



1

Verify whether matching circuits have been modified and if environmental treatments are feasible, as these directly impact antenna performance. Raise any objections promptly with our team

2

If your device undergoes material changes, software updates, or environmental treatment adjustments, you must provide the latest unit for our verification

3

For devices intended for third-party certification or testing:

- Submit the unit to us first for validation (including RF performance verification).
- Do not proceed with external testing until we confirm compliance.

**Reason:** Consistency in motherboard design, environmental treatments, and antenna assembly critically affects antenna performance



# THANKS FOR WATCHING



W

P

X

Tel: +86-755-3688170

Address: 1st Floor, Building B, Jinghang Industrial Park, Liuxian  
3rd Road, Bao'an District 71, Shenzhen, China