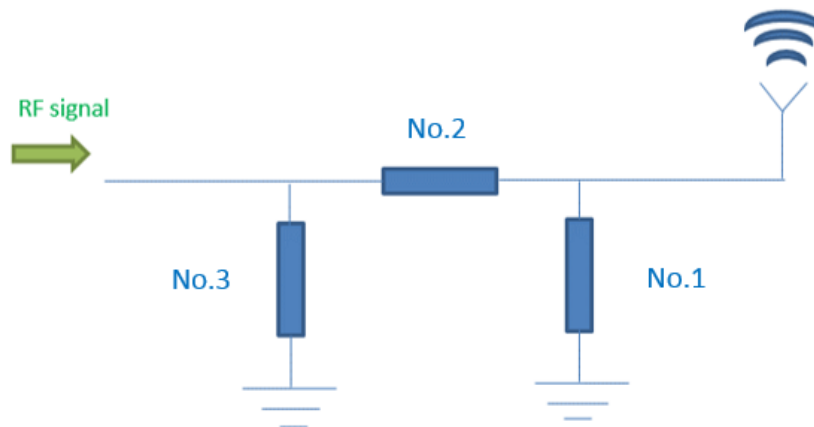
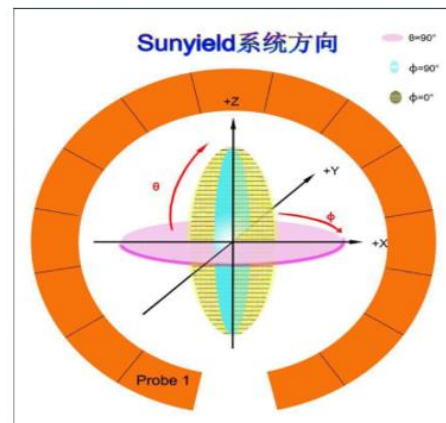
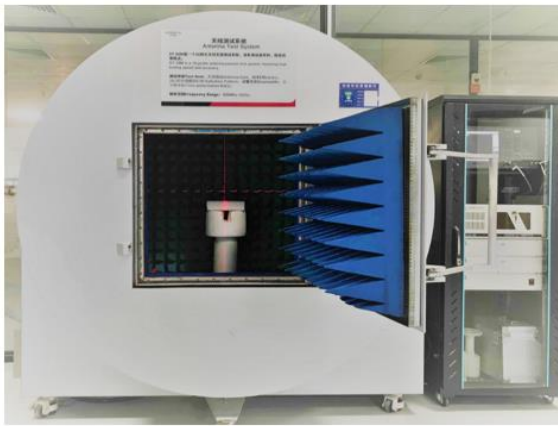


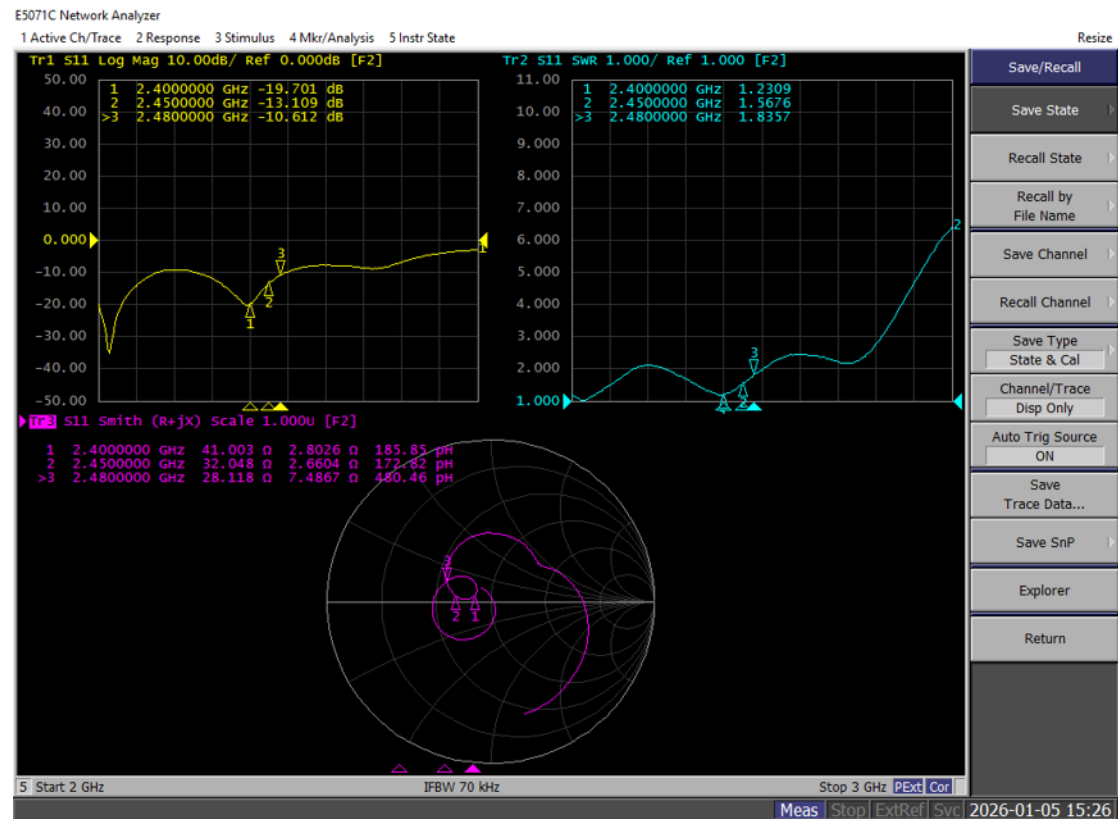
LEEDARSON 立达信		Antenna Test Report		Version : 2025-09-02_V2.5	
Product Information					
Client	M071 ProGW200 网关		Protocol	WIFI+BLE	
Project Number			Sample Quantity	2	
Model Number			PCB Version	D-SGI-A01-01-A V2.0-Y1	
Chip Type	ESP32-C61		Structure Version	正式模	
Sample Picutres					
Summary UWB					
No.	Item	Result	Limit	Judgment	
1	VSWR	1.84	< 2.5	Pass	
2	Antenna efficiency	-2.93	> -6 dB	Pass	
Conclusion	Pass				
Revision history					
Testor	zhuwei		Test Date	2026.1.6	
Version	Date		Revise Content	Reviser	
V2.0	2026.1.6		Establish	zhuwei	

SY-16M Test System

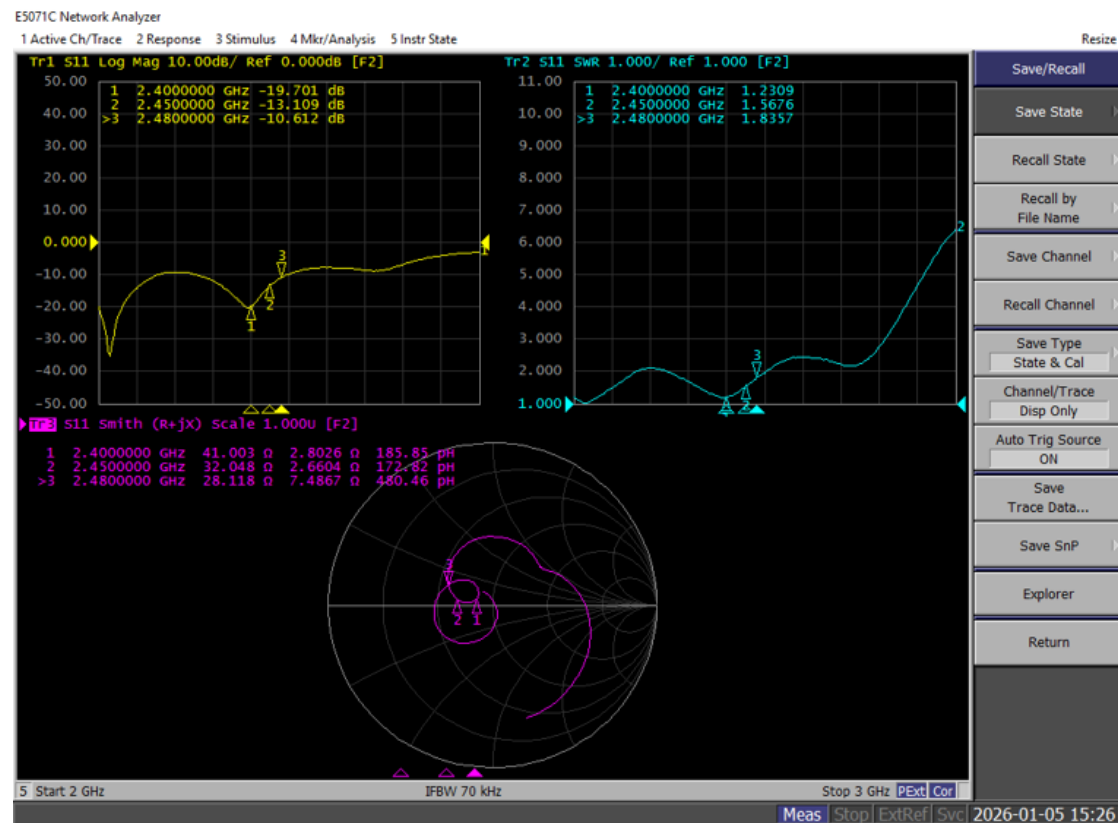


VNA Data(PCB BLE)

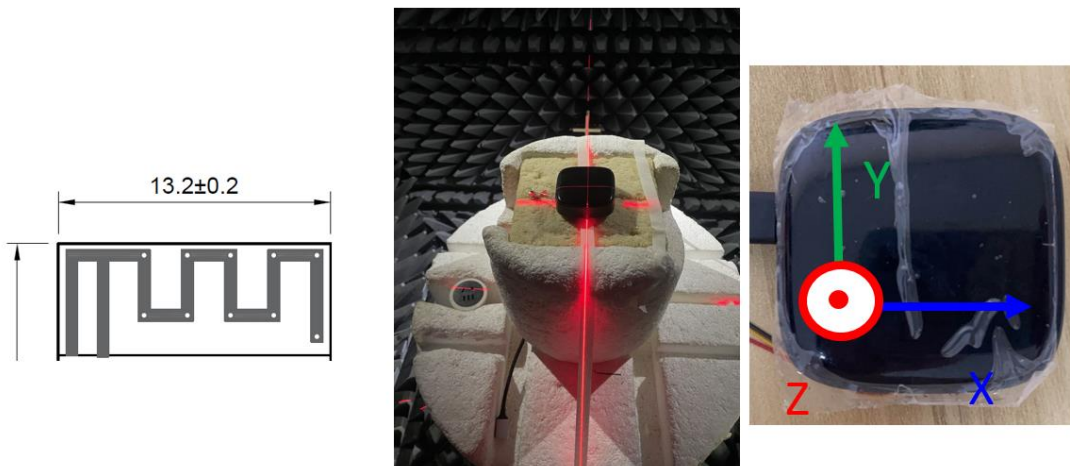
Original Result of Simulation Setting



Final Tuning Result



Sample Picture



Frequency (MHz)	Gain (dBi)	Efficiency (dB)	3D	$\theta = 90^\circ$ (XY Plane)
2400	0.70	-2.93		
2410	1.01	-2.91		
2420	1.33	-2.82		
2430	1.01	-2.75		
2440	1.17	-2.60		
2450	1.20	-2.52		
2460	1.39	-2.58		
2470	1.23	-2.65	$\phi = 0^\circ$ (XZ Plane)	$\phi = 90^\circ$ (YZ Plane)
2480	1.19	-2.70		
2490	1.32	-2.75		
2500	0.99	-2.72		
-	-	-		
MIN	0.70	-2.93		
MAX	1.39	-2.52		
AVG	1.14	-2.72		

Manufacturer: SPRING SUNSHINE TECHNOLOGY CO., LIMITED

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