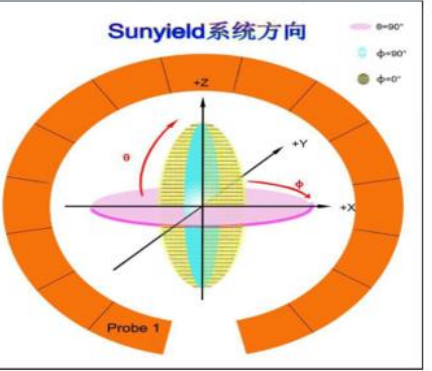
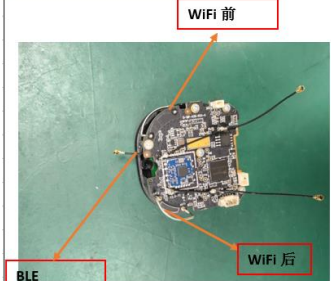
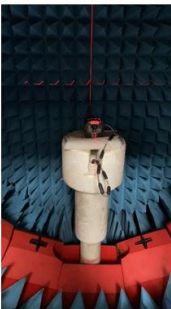


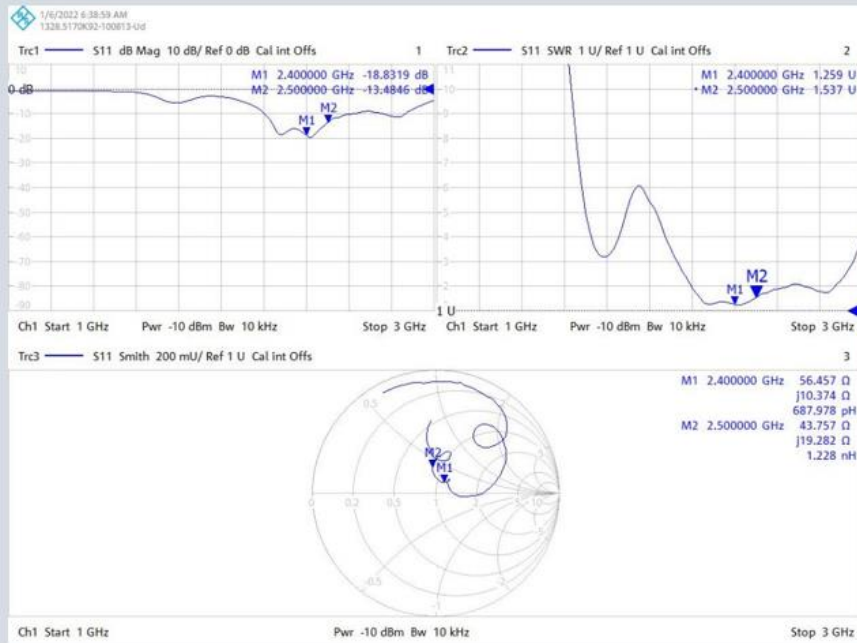
LEEDARSON 立达信		Antenna Test Report		Version : 2023-05-04_V1.0		
Product Information						
Client	M220 Cost Down 版本M3 Pro		Protocol	WiFi+BLE		
Project Number	IOT-T230314001		Sample Quantity	2		
Model Number	BL-M8192FU1		PCB Version	V2.0-Y1		
Chip Type	RTL8192FC-CG		Structure Version	正式模		
Sample Picutres						
Summary						
No.	Iterms	Idex			Test Result	Conclusion
1	Efficiency (%)	A (≥45%)	B (25%~44.99%)	C≤24.99%	WiFi前: 52% WiFi后: 53%	A
2	VSWR	≤2.5			1.5	PASS
3	Distance Test	WiFi 100M	BLE 10M	Zigbee 40M	100M	PASS
Author		DeYun Li			Test Date	2023.05.04
Verifier		DeYun Li			Review Date	2023.05.04
Version		V1.0			Revise Content	Reviser

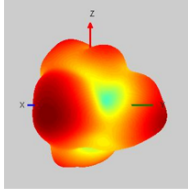
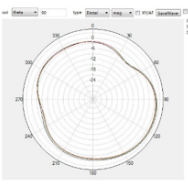
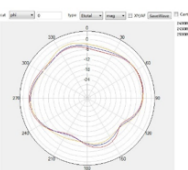
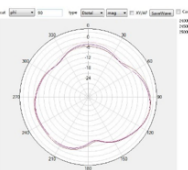
Test Environment					
SY-16M Test System					
 					

Picture					
   WiFi 前 WiFi 后 BLE Test Sample Test Environment					

WIFI ANT1

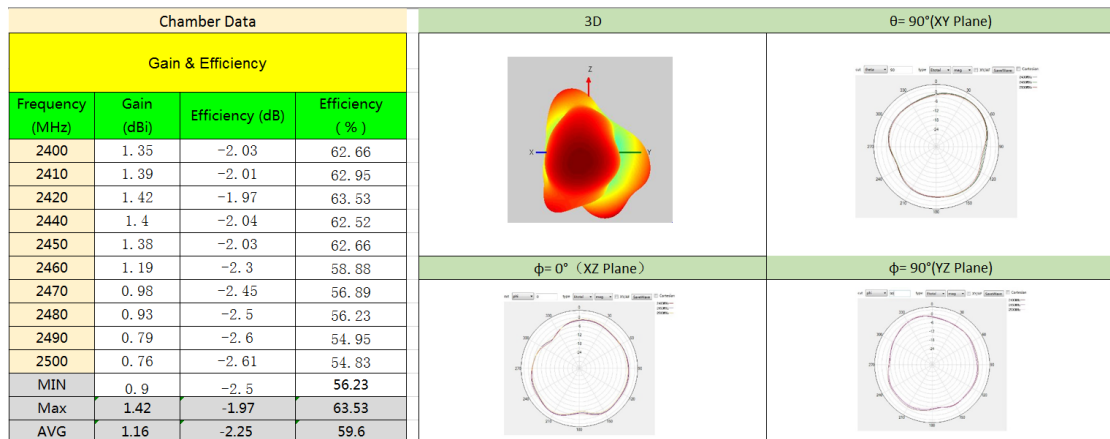
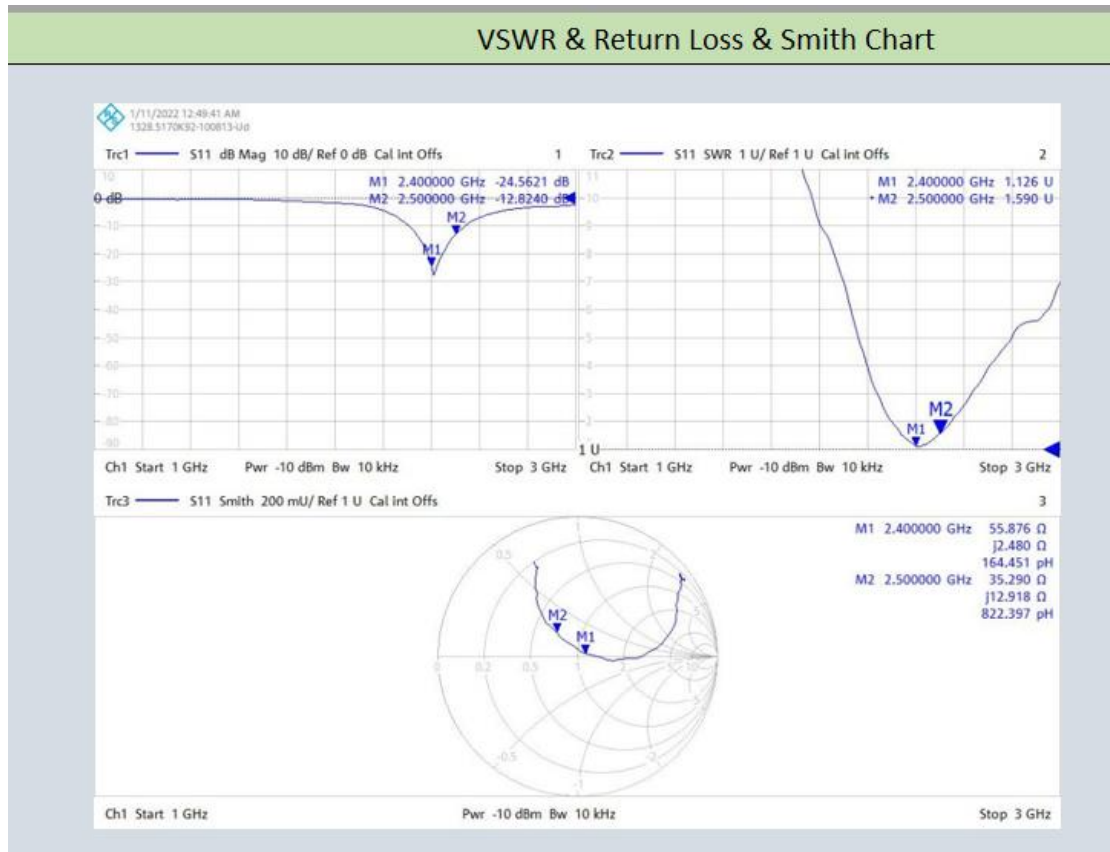
VSWR & Return Loss & Smith Chart



Chamber Data				3D		$\theta = 90^\circ$ (XY Plane)	
Gain & Efficiency							
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)				
2400	2.30	-2.80	52.48	$\phi = 0^\circ$ (XZ Plane)		$\phi = 90^\circ$ (YZ Plane)	
2410	2.31	-2.78	52.72				
2420	2.25	-2.81	52.36				
2440	2.19	-2.88	51.52				
2450	2.15	-2.86	51.76				
2460	1.88	-2.84	52.00				
2470	1.71	-2.82	52.24				
2480	1.73	-2.85	51.88				
2490	1.64	-2.90	51.29				
2500	1.64	-2.88	51.52				
MIN	1.75	-2.93	50.93				
Max	2.31	-2.78	52.72				
AVG	1.98	-2.84	51.98				

WIFI ANT2

VSWR & Return Loss & Smith Chart



BT ANT

VSWR & Return Loss & Smith Chart

