

Antenna Test Report

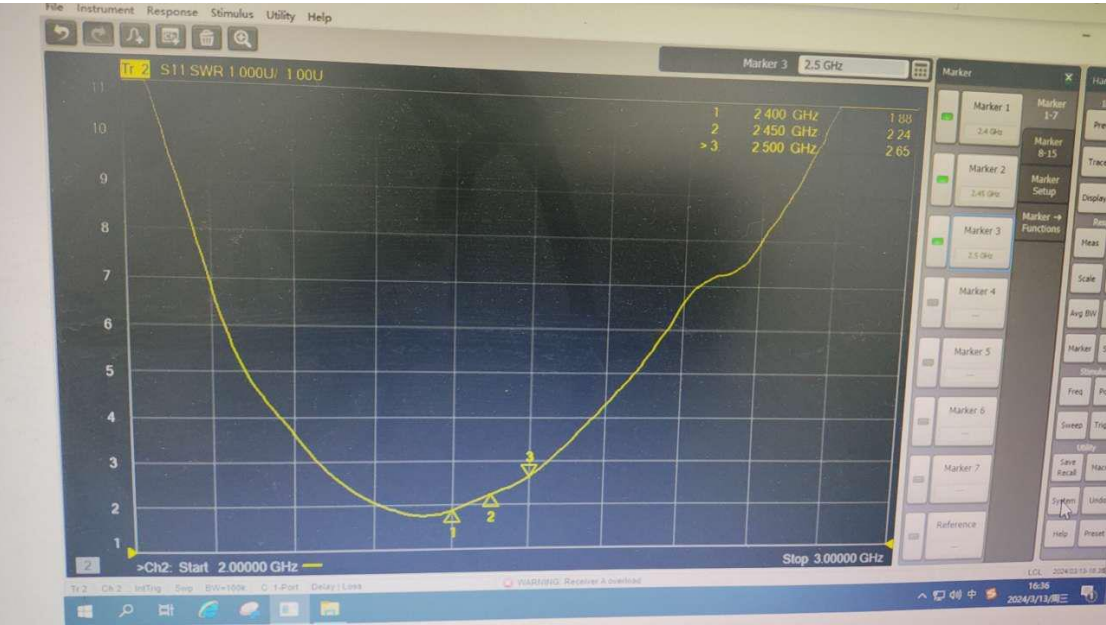
Product Information			
Client	Chen Bei	Protocol	WiFi+Ble
Product Description	Snowball	Sample Quantity	1pcs
Model Type	ESP32-C3-SOLO-1	Sampel Version	TR3
Sample Picutres			

Prepared By	MORLAB LABORATORY
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Test Data	2024.11.13

Equipent	Manufacturer	Type	Serial Number	Calibration Date	Effective Date
Network Analyzer	Aglient	E5071C	MY46110140	2024.05.30	2025.05.29
Dark Room	ETS	AMS-8923-150	TJ2235-Q1793	2022.11.30	2025.11.29

Test Data

VNA



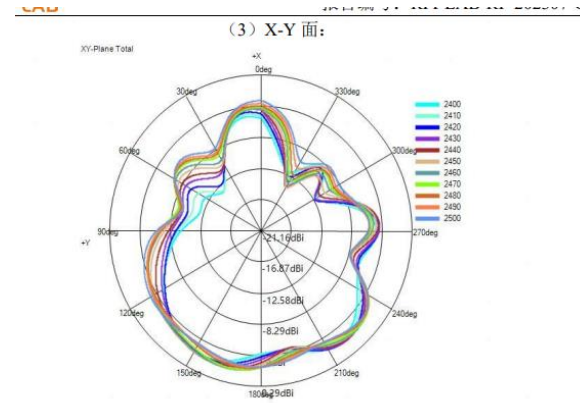
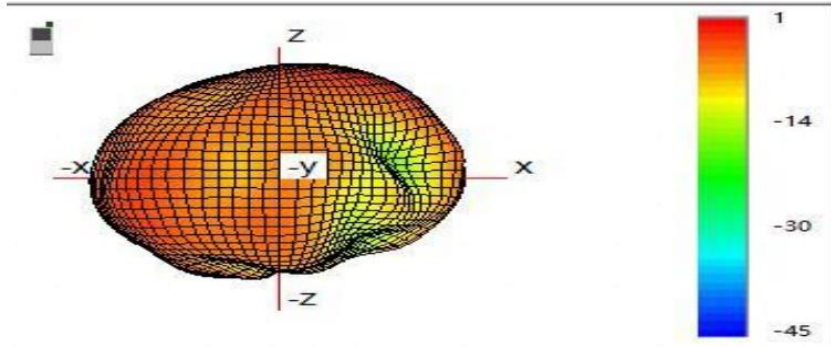
Efficiency & Gain

Frequency (MHz)	Efficiency (dBi)	Efficiency (%)	Gain (dB)
2400	-5.6	27.63	-0.97
2410	-5.5	28.15	-0.97
2420	-5.3	29.29	-0.74
2430	-5.1	30.59	-0.26
2440	-5.0	31.55	-0.04
2450	-4.9	32.65	0.09
2460	-4.7	33.85	0.22
2470	-4.7	34.21	0.24
2480	-4.8	33.30	0.04
2490	-4.7	33.50	0.00
2500	-4.7	33.88	-0.19

Test Data

3D (2450MHz)

$\theta = 90^\circ$ (XY Plane)



$\varphi = 0^\circ$ (XZ Plane)

$\varphi = 90^\circ$ (YZ Plane)

