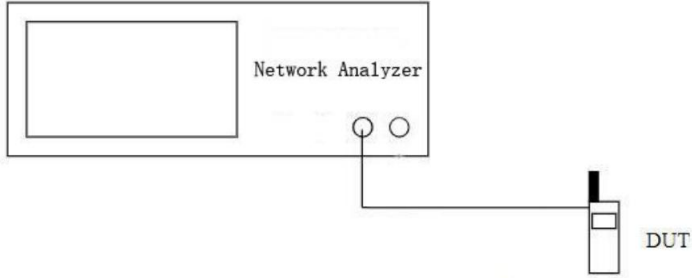
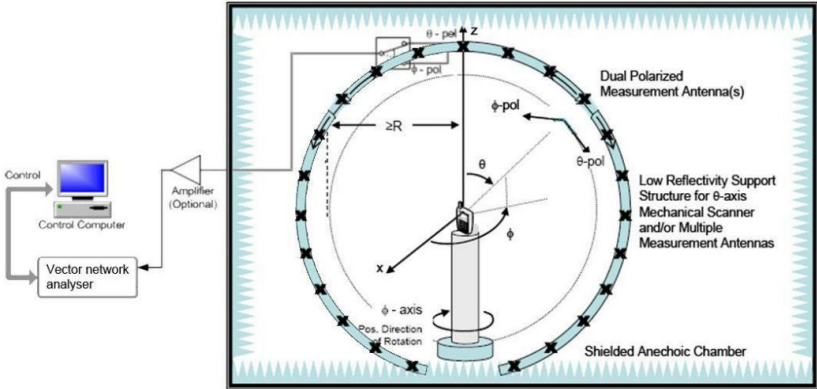
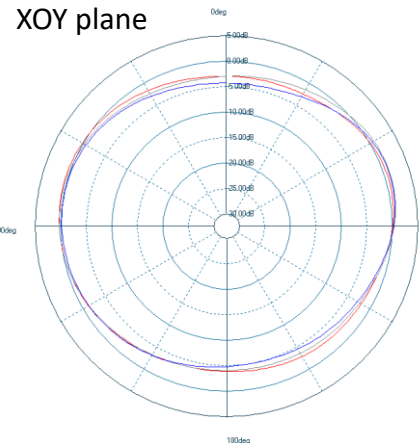
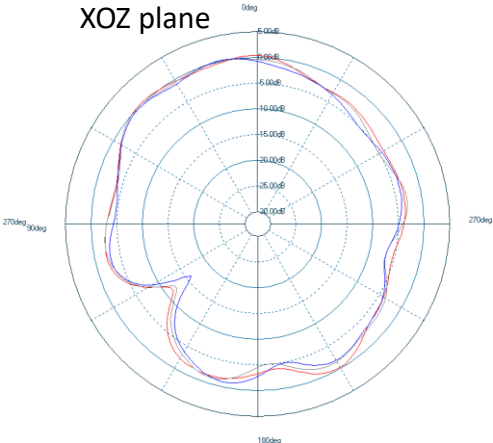
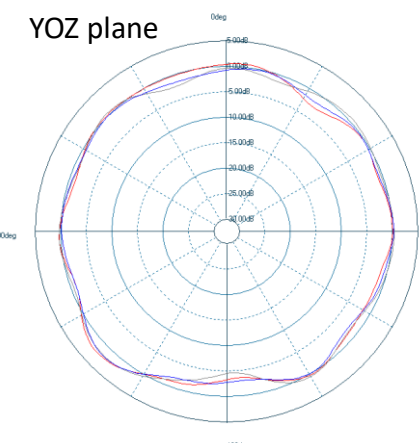


Product Name	PCB On-board Antenna					
Antenna Model	RC-BM2					
Manufacturer Address	Huizhou Kedisheng Technology Co., Ltd. Hengjiangwei Village Committee, Yihe West Industrial Zone, Boluo County, Huizhou City, Guangdong Province, China					
Antenna Type	PCB antenna					
Test Laboratory Name	ZTX SATIMO SG24 Anechoic Chamber					
Test Laboratory Address	No. 34, Shilong Avenue, Shiyan Street, Bao'an District, Shenzhen City, China					
Test Date	October 14, 2025					
Test Engineer	Zhao Feng					
Test Software	Satimo.Spm					
Software Version	1.5.5					
Test standard	IEEE Std149-2021					
Calibration Equipment	Instrument	Manufacturer	Model	Serial No.	Calibration Date	Calibration Expiry
	Vector Network Analyzer	Keysight	E5071C	MY47002902	2025. 04. 14	2026. 04. 13
	Vector Network Analyzer	Agilent	E5071C	MY46521960	2025. 04. 14	2026. 04. 13
	SG24 Antenna Test System	SATIMO	SG24		2025. 04. 14	2026. 04. 13
Antenna Drawing						

Antenna Efficiency & Gain	Frequency	Efficiency		Peak Gain
	Mhz	%	dB	dB
	2400	66.20	-1.79	2.29
	2410	63.98	-1.94	1.89
	2420	64.40	-1.91	1.78
	2430	67.01	-1.74	1.84
	2440	66.92	-1.74	1.78
	2450	68.31	-1.65	1.81
	2460	65.05	-1.87	2.05
	2470	63.36	-1.98	2.07
	2480	61.01	-2.15	1.89
	2490	58.03	-2.36	1.62
	2500	55.74	-2.54	1.13

Setup photo

Please refer to PDF "antenna setup photo"

Test Procedure	S11 parameter measurement:  Efficiency, gain, and pattern measurement: 
2D or 3D Pattern	XOY plane  XOZ plane  YOZ plane  2450 MHz 3D radiation pattern 