

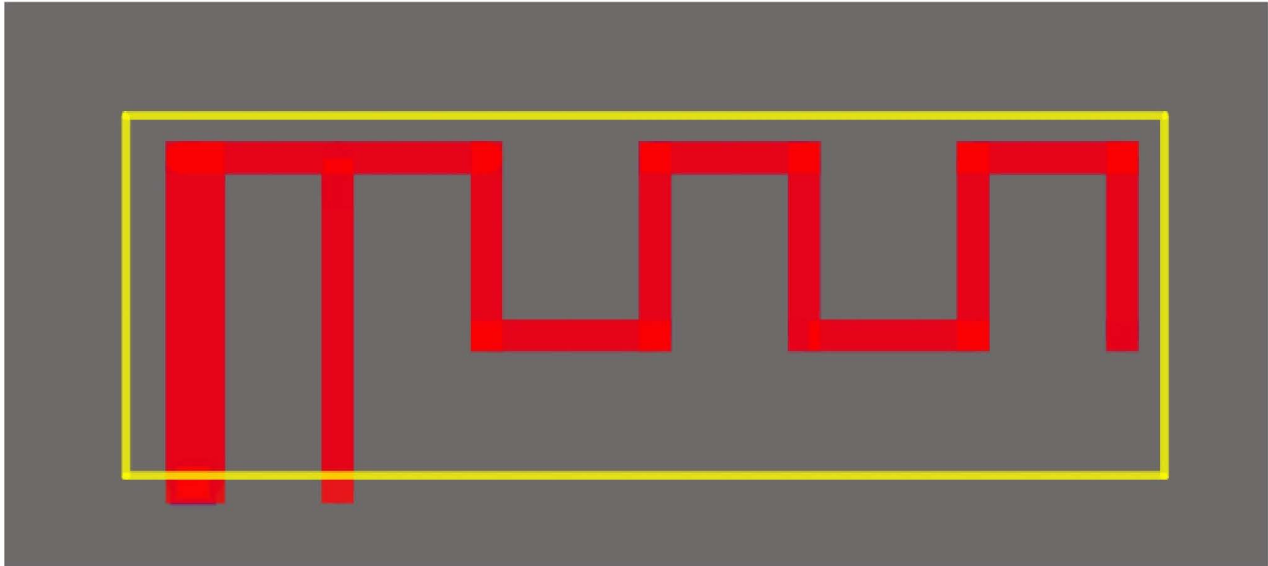
2.4G-2.48G 频段板载 PIFA 天线测试报告

2.4G-2.48G Inverted F Antenna Specification

SPECIFICATIONS	
Frequency (MHz)	2400-2480
Peak Gain (dBi)	2.338
Average Gain (dBi)	>-5.5
VSWR	<3.2
Impedance (Ω)	50Ω
Antenna Type	Plannar Inverted F Antenna on board
Polarization	Linear
Manufacture	ZHUHAI JIELI TECHNOLOGY CO.,LTD
Address:	No.333 Kexing Road, Nanping Science Park, Xiangzhou District, Zhuhai
Test equipment	HWA-TECH

Test by: Ryan

Antenna Photo



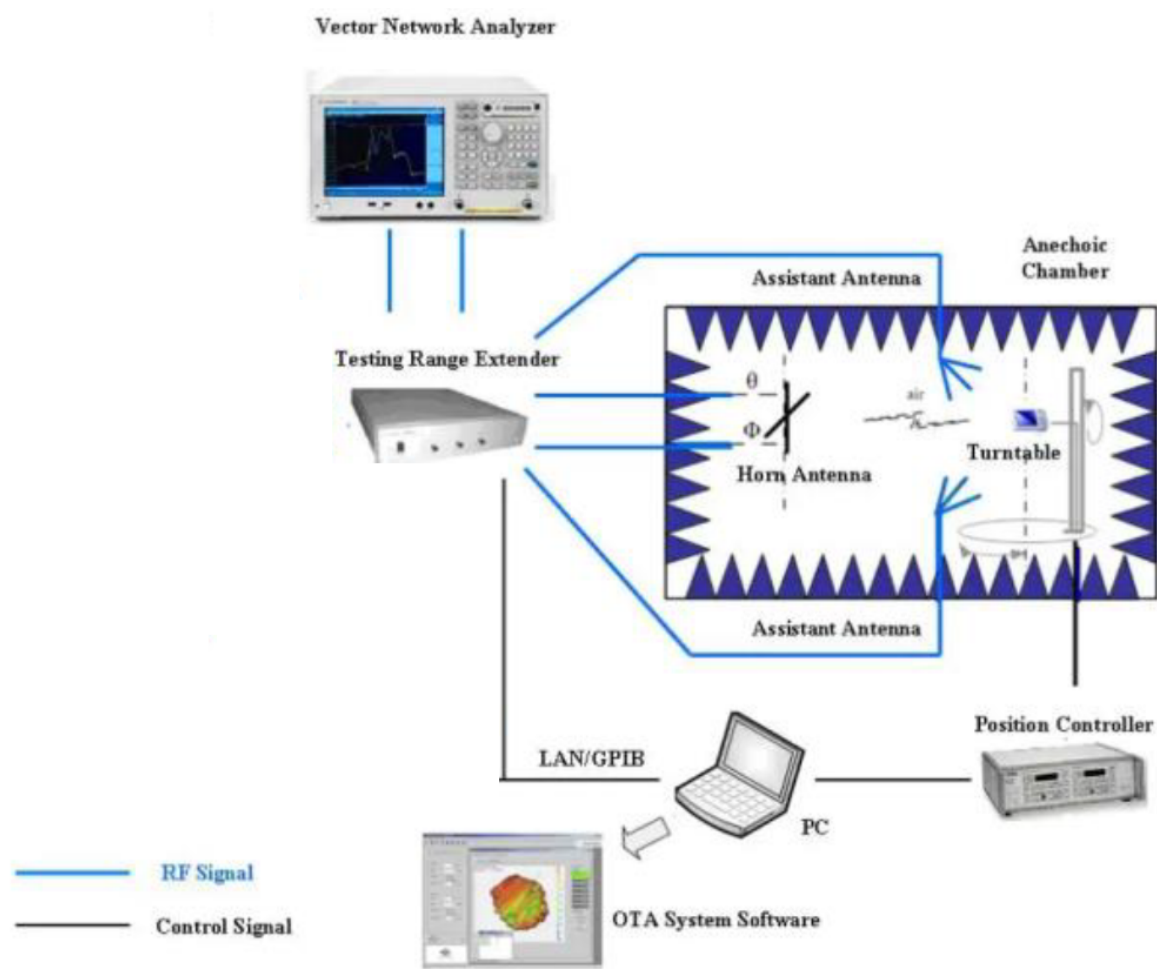
List of Test Instrument

No.	Instrument	Manufacturer	Calibration Cycle
1	Network Analyzer	R&S	2024/08/07~2025/08/06
2	Antenna Measurement System (OTA Test System)	EM-Testing	2024/09/16~2025/09/15
3	Antenna Measurement System (OTA) Shielding	EM-Testing	2024/10/08~2025/10/07
4	EMT-AMS Antenna Measurement System Software	/	/

Test procedure

Name	Parameter	Method	Standard no.
Mobile communication antenna	VSWR	Generic specification for antennas used in the mobile communications	GB/T 9410-2008
	Antenna gain		
	Radiation pattern		
Antenna performance	Radiation efficiency	IEEE Standard Test Procedures for Antennas	ANSI/IEEE Std 149-1979

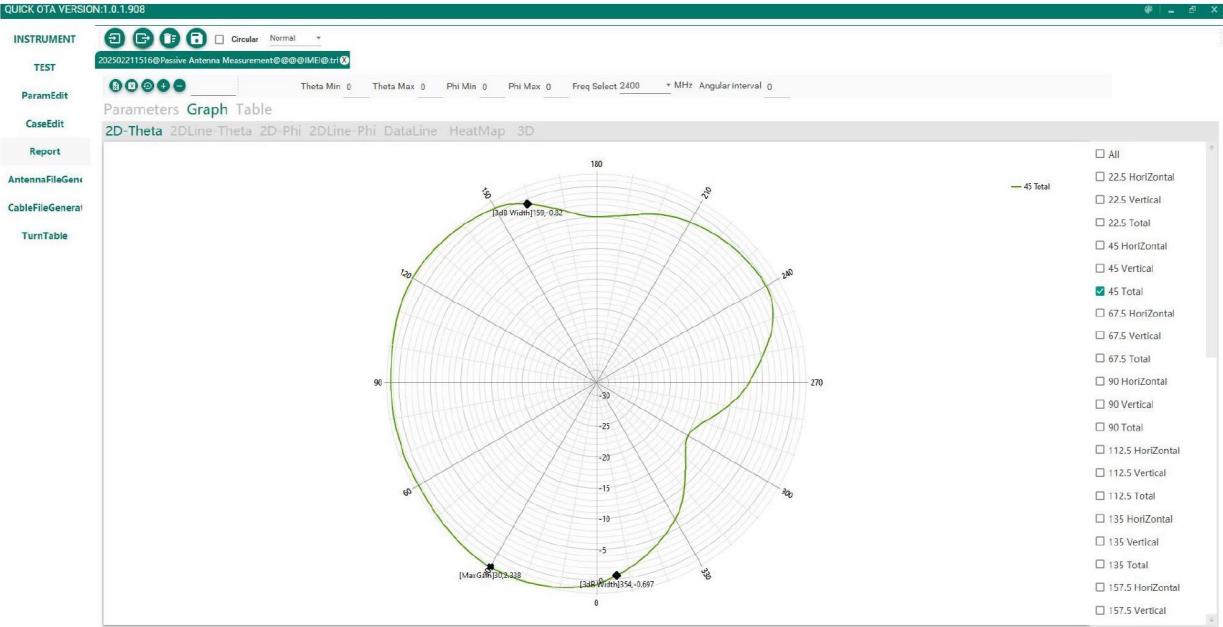
Test method



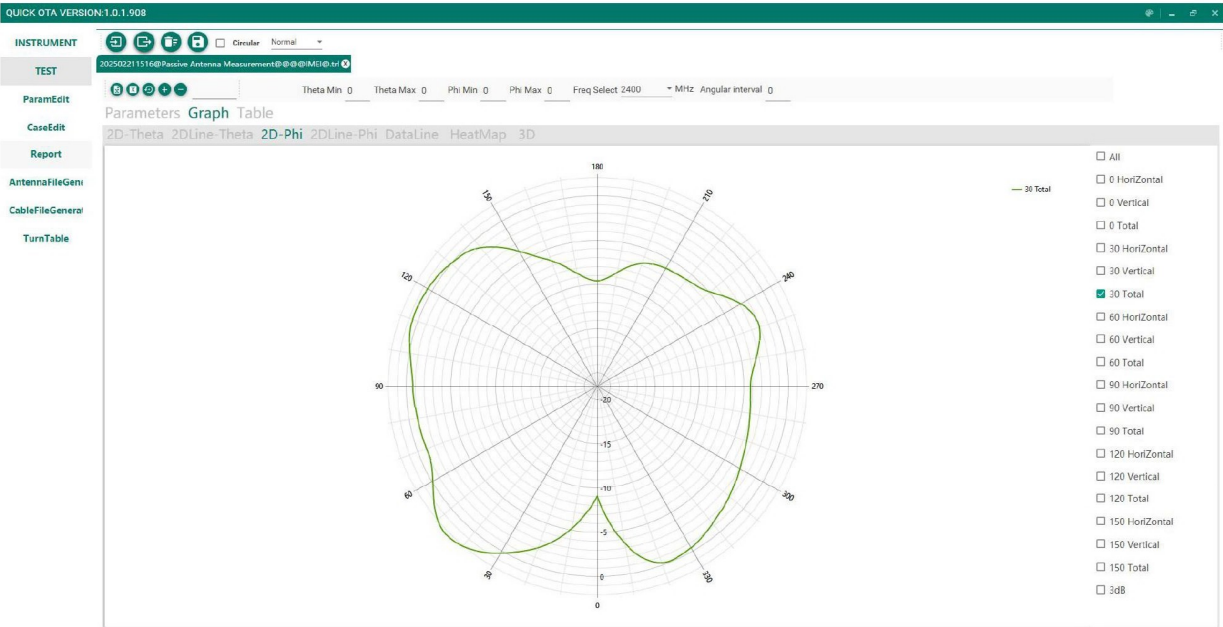
天线效率及增益：
Antenna efficiency and gain:

Frequency (MHz)	Gain (dBi)	Effciency (%)	AverageGain (dBi)	Efficiency (dB)
2400	2.338	59.39%	-2.915	-2.263
2410	1.603	49.11%	-3.883	-3.088
2420	1.295	46.04%	-4.014	-3.369
2430	0.388	36.89%	-4.91	-4.331
2440	0.187	34.00%	-5.276	-4.685
2450	0.02	31.71%	-5.431	-4.988
2460	0.507	34.88%	-5.02	-4.575
2470	0.291	31.89%	-5.323	-4.963
2480	0.429	32.89%	-5.195	-4.83
Average	0.78	39.64%	-4.66	-4.12
Peak	2.338	59.39%	-2.915	-2.263

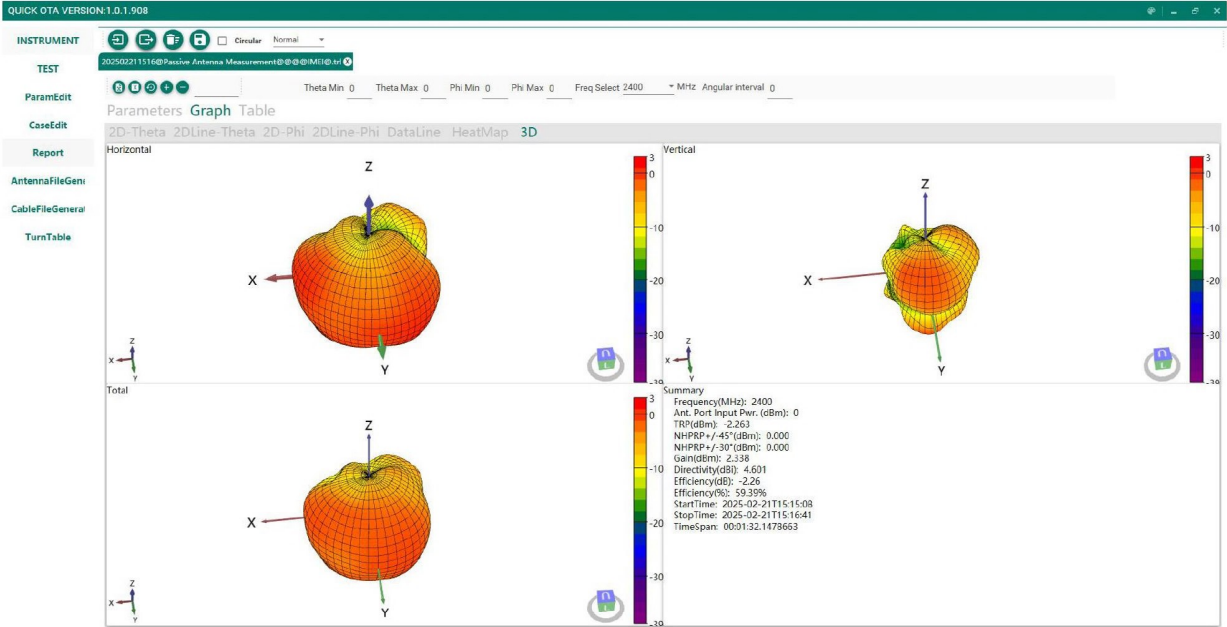
天线 2400MHz 2D-Theta Pattern



天线 2400MHz 2D-Phi Pattern



2400MHz 3D-Total Pattern



Test setup photo

