

ESP32 Antenna test report

ESPRESSIF SYSTEMS (SHANGHAI) CO., LTD
Suite 204, Block 2, 690 Bibo Road, Zhang Jiang Hi-Tech Park, Shanghai

Product Name:	ESP
Antenna Type:	PCB antenna
Writer:	Wang Jiaojiao
Maximum	Gain: 2.5dBi
	Efficiency:32.96%

1. General Description

EUT Name	ESPAntenna
Wireless type	WiFi
Antenna Type	PCB antenna
Dimensions	Appendix A

2. Technical Information

Frequency Range	2400MHz~2500MHz
Test Frequency	2400,2410.....2500MHz

3. Test Standards

Identity	Document Title
IEEE 149-1979	IEEE Standard Test Procedures for Antennas

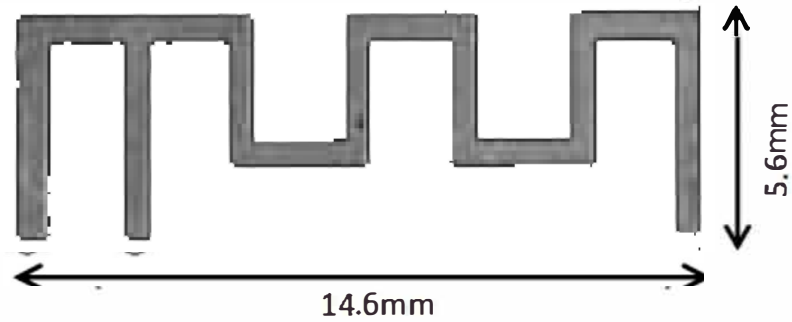
4. Test Item

Report Section	Description
Appendix B	S11/VSWR
Appendix C	Gain and Efficiency
Appendix D	Radiation Pattern (1D and 3D)

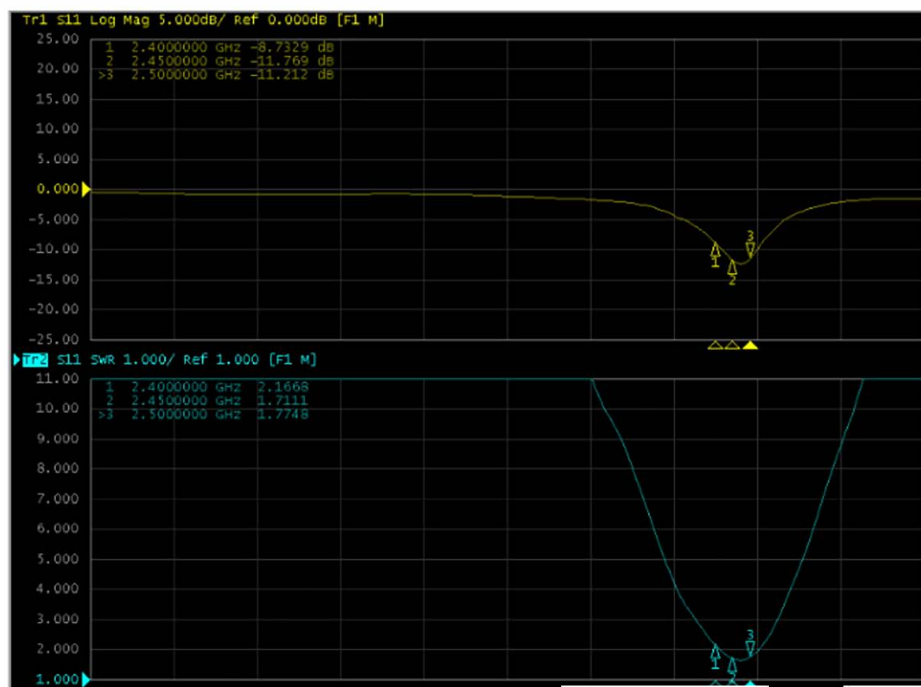
5. Test Photo

Report Section	Description
Appendix E	Test Setup Photo

Appendix A Antenna Dimension



Appendix B S11/VSWR

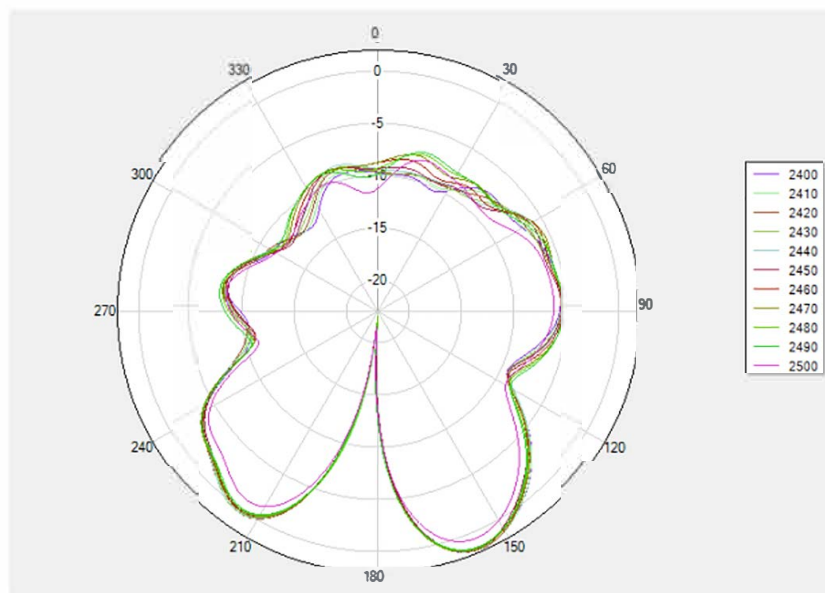
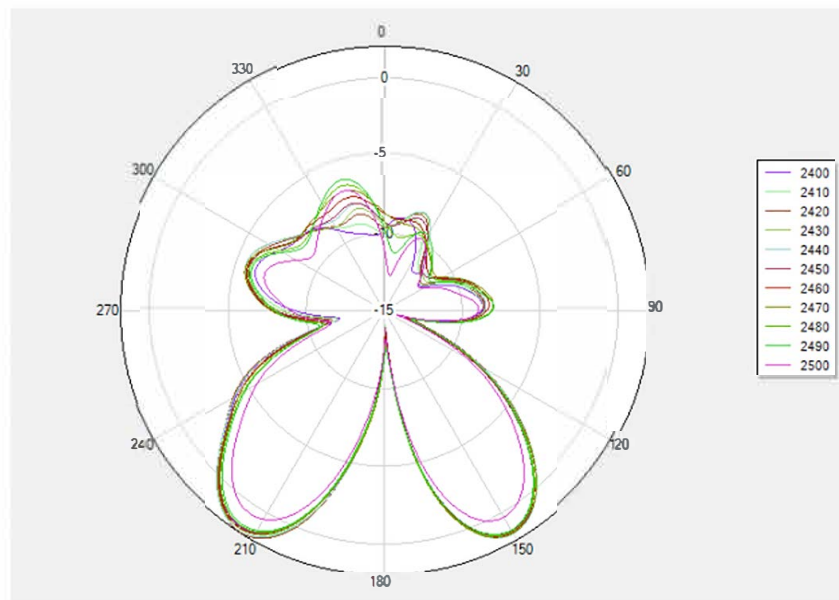


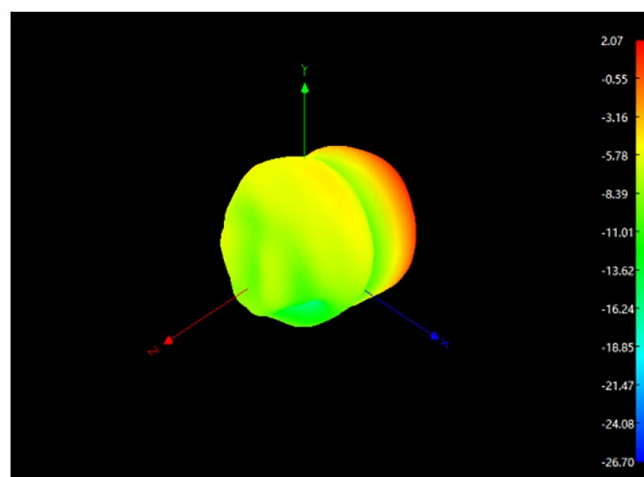
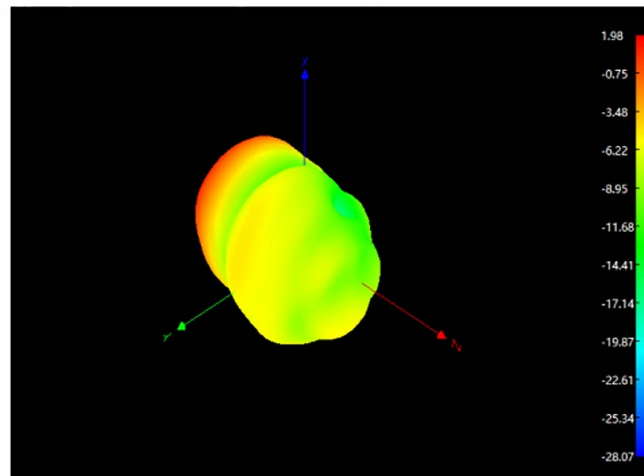
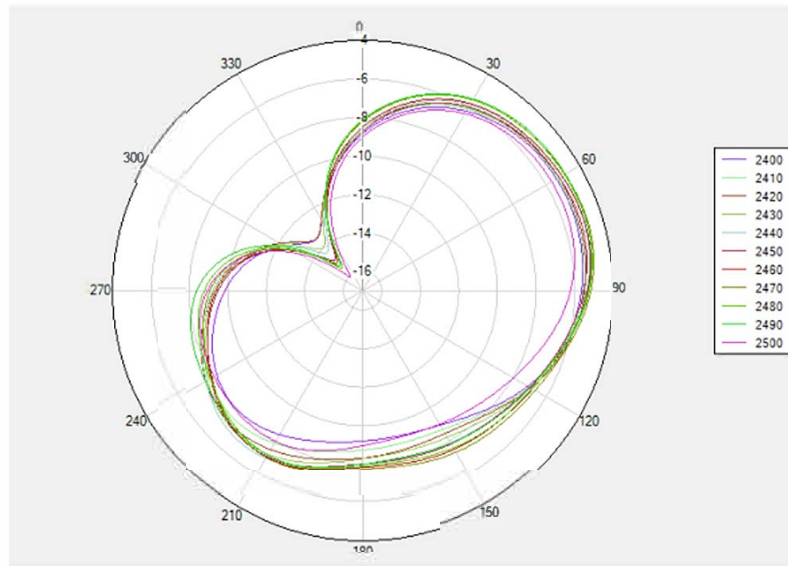
Frequency (MHz)	2400	2450	2500
Return Loss	-8.73	-11.76	-11.21
VSWR	2.16	1.71	1.77

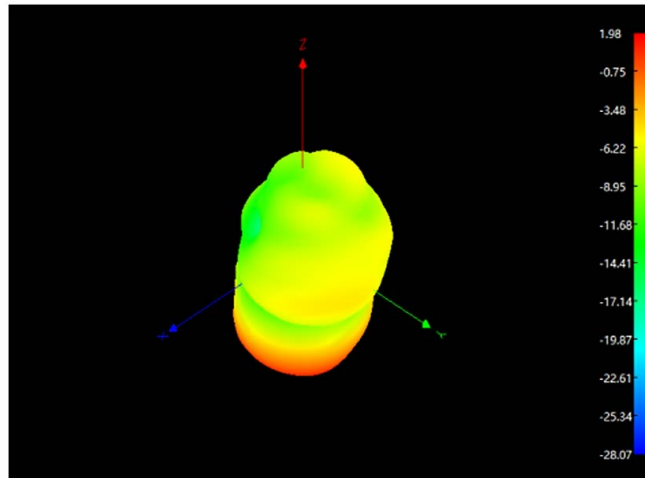
Appendix C Gain and Efficiency

Frequency (MHz)	Efficiency(%)	Gain (dBi)
2400	32.36%	2.11
2410	32.3%	2.18
2420	32.1%	2.50
2430	32.4%	2.06
2440	32.9%	2.07
2450	30.9%	1.91
2460	30.8%	2.04
2470	30.7%	2.09
2480	31.6%	1.98
2490	30.6%	1.91
2500	30.5%	1.03

Appendix D Radiation Pattern(1D and 3D)







Appendix E Test Setup Photo

