

**Antenna
Test Report**

2M091 Antenna test report

Version 1.0.0

Date: 2022-04-16

NO: 0000000001

Huaxin Communication Equipment (Shenzhen) Co., Ltd

Product Name	2M091
Antenna Type	Spring Antenna
Writer	Jianwei Wang
Maximum	Gain:1.37dBi
	Efficiency:47.2%

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1. General Description

EUT Name	2M091 Antenna
Wireless type	WIFI
Antenna Type	Spring antenna
Dimensions	Appendix A

2. Technical Information

Frequency Range	2402MHz ∼ 2480MHz
Test Frequency	2402MHz ∼ 2480MHz
Wire diameter	0.6mm
high	12mm
Number of turns	4
Circle diameter	3.55mm
Material	Phosphor copper

3. Test Standards

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

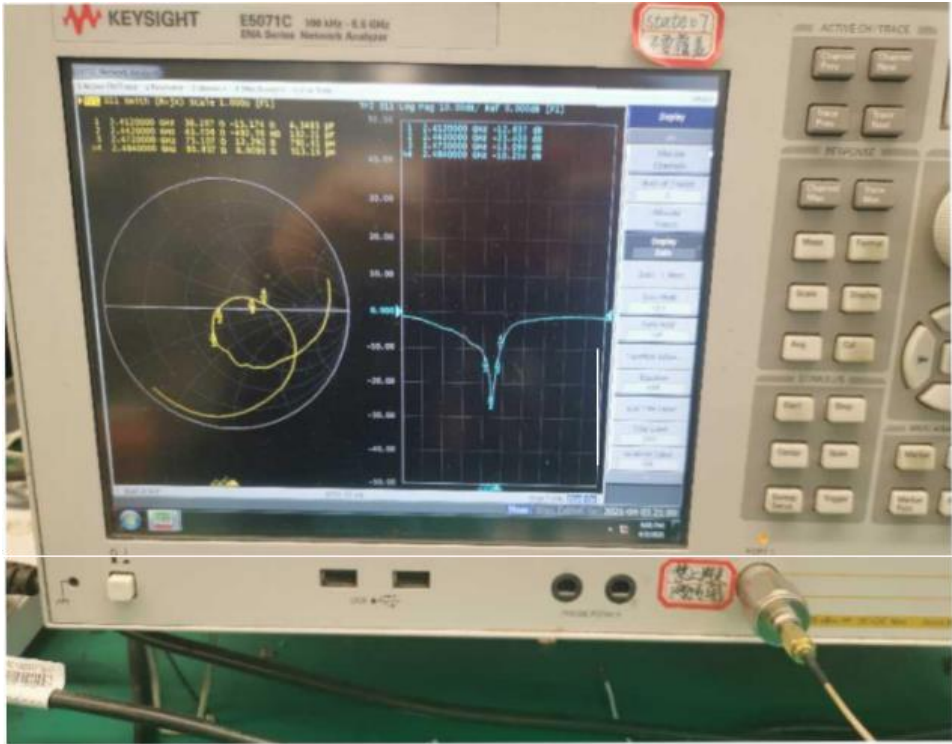
4. Test Item

Report Section	Description
Appendix B	S11A/SWR
Appendix C	Gain and Efficiency
Appendix D	Radiation Pattern (1D and 3D)

5. Test Photo

Report Section	Description
Appendix E	Test Setup Photo

Appendix B S11/VSWR

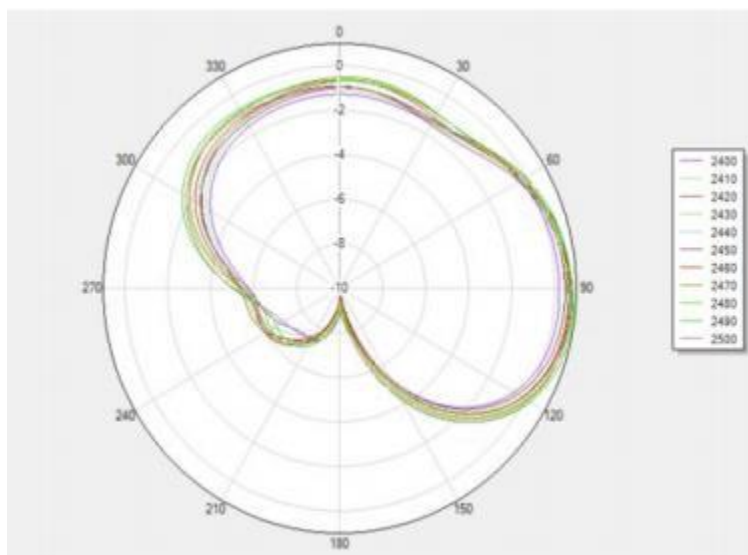
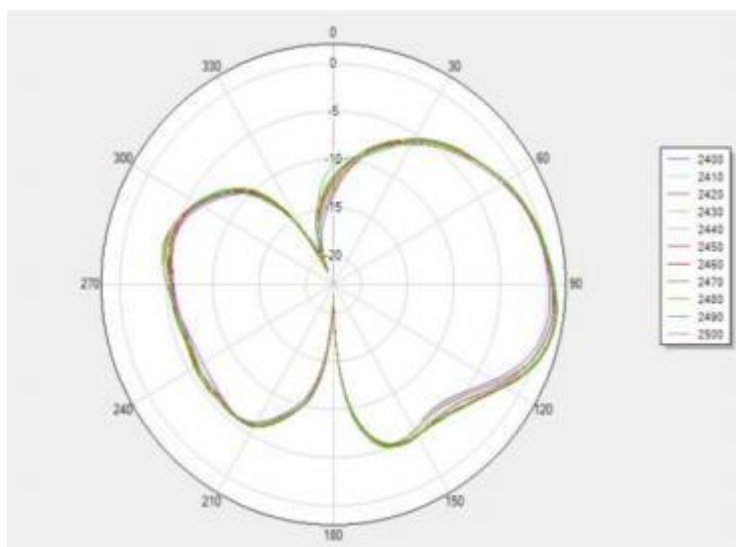
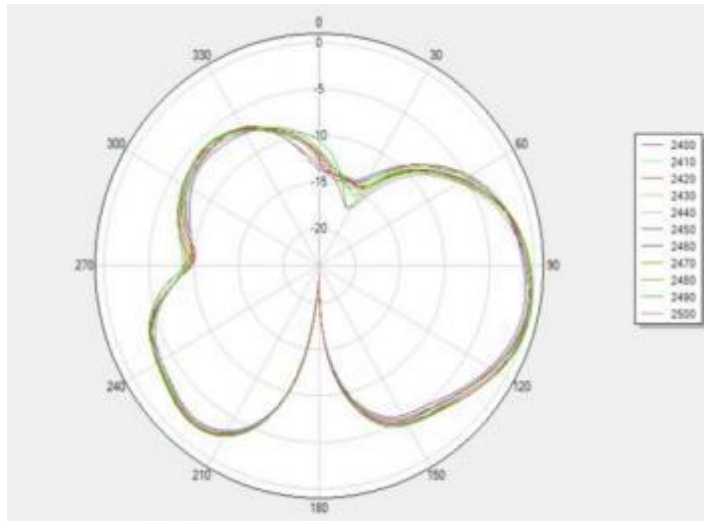


Frequency (MHz)	2402	2450	2480
Return Loss	- 12	-23	- 13

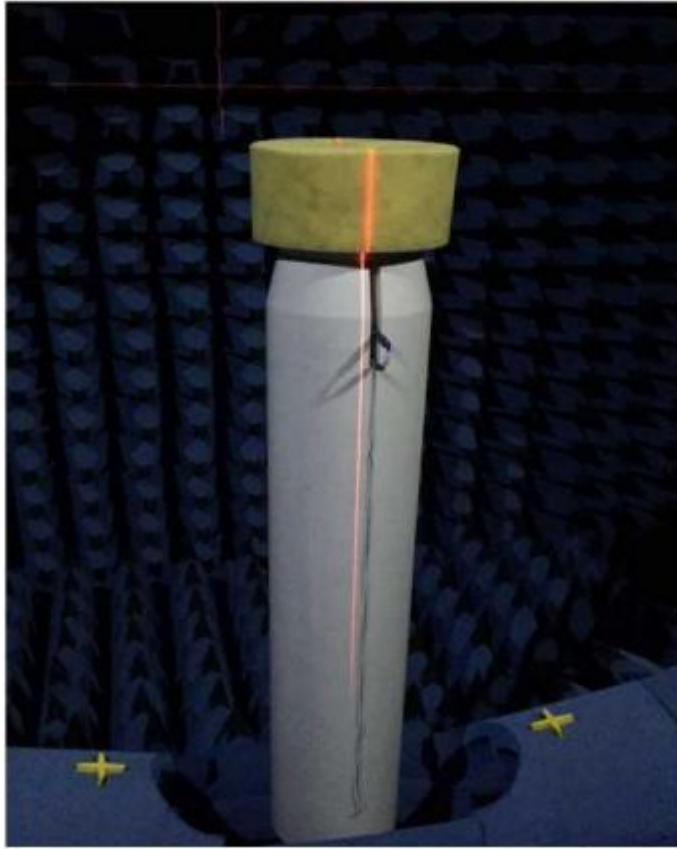
Appendix C Gain and Efficiency

Frequency / MHz	Gain/ dB	Efficiency /%
2402	0.46	44.36
2410	0.71	45.71
2420	0.92	45.92
2430	0.91	45.6
2440	0.95	45.6
2450	0.93	45.29
2460	1.27	46.45
2470	1.37	46.88
2480	1.25	47.21

Appendix D Radiation Pattern(2D)



Appendix E Test Setup Photo



Antenna Diagram

