

902-928MHz Passive antenna report

Client:	XinDi
Item:	DS20L
Antenna modification:	A0
Preparation engineering :	GuoXi (18970988655)
Auditor :	GuoXi (18970988655)
Date :	2024.09.03

catalogue :

This report is to debug the performance of DS20L, the antenna operating frequency of 902-928MHzTest the content;

- 1、 Product graphics
- 2、 Test system
- 3、 Antenna matching
- 4、 The antenna test results

- 4.1 S11 Parameters
- 4.2 Efficiency gain
- 4.3 Two, three-dimensional graphics

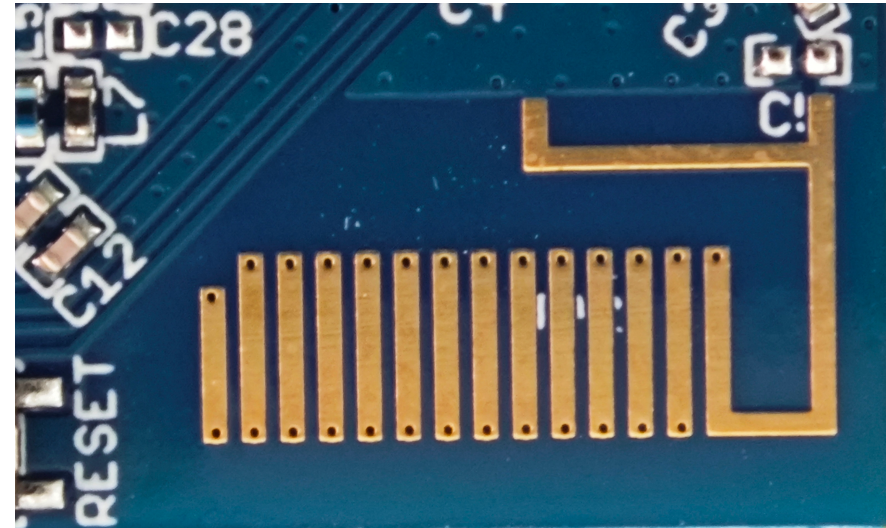
- 5、 conclusion

1、Product graphics

Front View



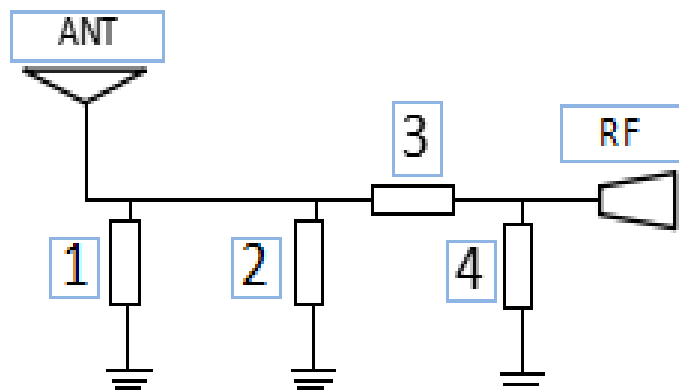
Antenna



2、Test system

Serial number	Testing instrument
S11 Parameters	Agilent 5071B
OTA testing	Agilent 5071B & CMW500 & Agilent 8960 &
Gain and efficiency	Agilent 5071B &

3、Antenna matching

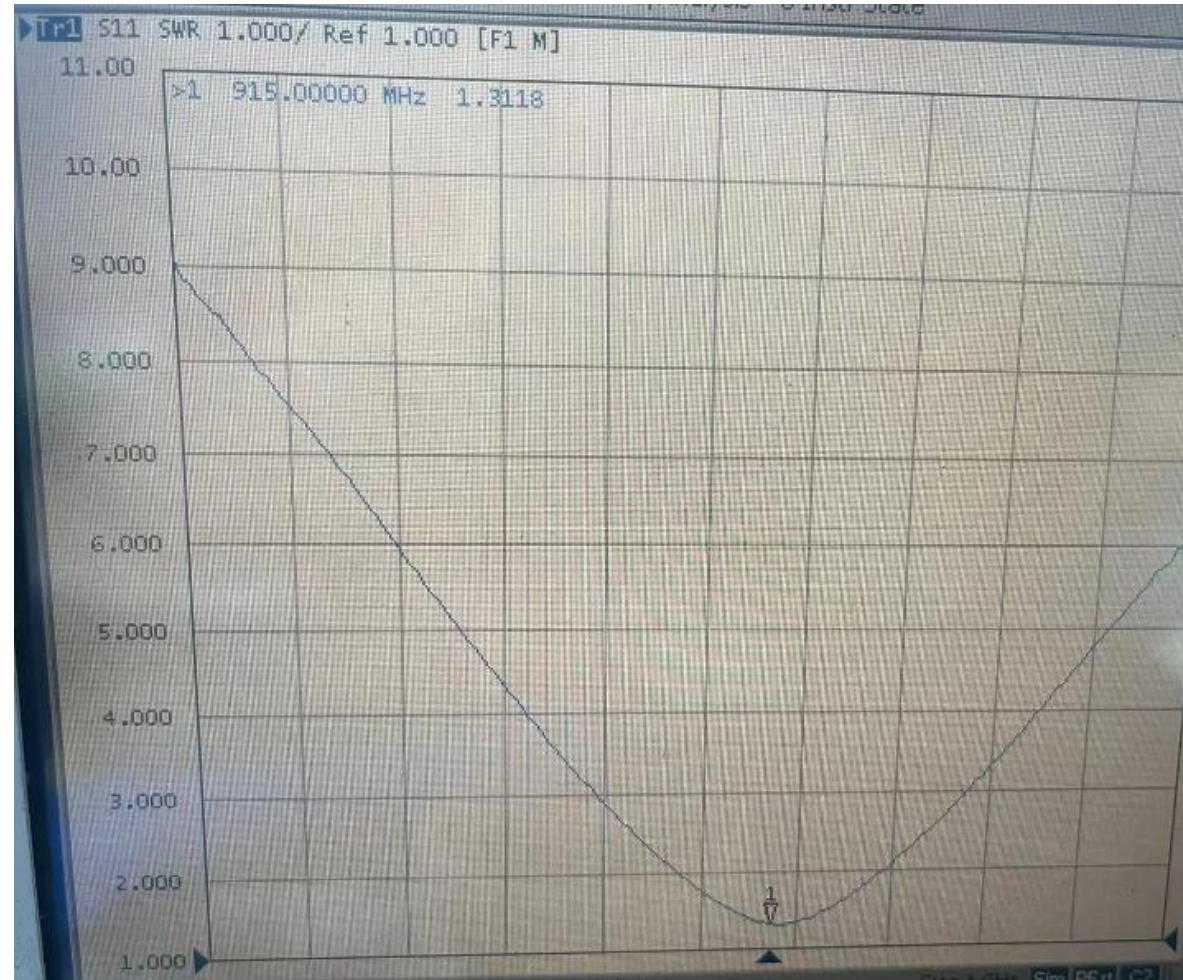


Serial number	Capacitance	Inductance
1	N/A	N/A
2	3.3PF	N/A
3	N/A	1.5NH
4	3.3PF	N/A

The PCB board end matching circuit has a 3.3PF capacitor connected in parallel at position 4, a 1.5NH inductor connected in series at position 3, and a 3.3PF capacitor connected in parallel at position 2.

4、The antenna test results

4.1 S11 Parameters



Frequency	915
VSWR	1.31

4、 Antenna test
result
4.2 Efficiency
gain

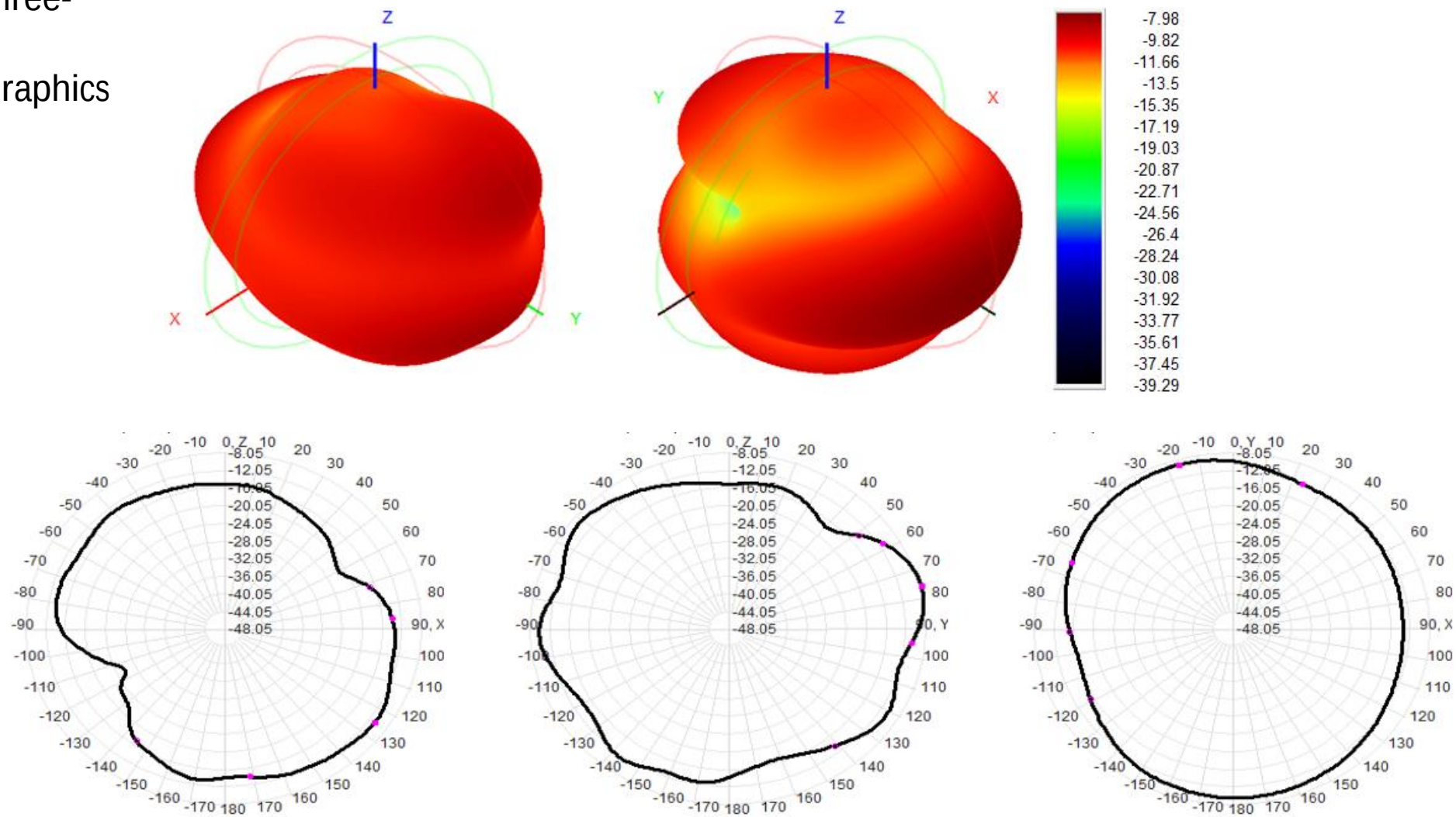
Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
915	5.08	-7.98

4、Antenna test result

4.3 Two, three-

dimensional graphics

915MHz



5、 conclusion

The passive test shows that the antenna works well. If you have any other questions, please contact us. Thank you.