

915MHz Passive antenna report

Client :	XinDi
Item :	LA66-USB
Antenna modification:	A0
Preparation engineering:	GuoXi (18970988655)
Auditor:	GuoXi (18970988655)
Date:	2024.09.05

Catalogue:

This report is to debug the performance of LA66 USB, the antenna operating frequency of 915MHzTest 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

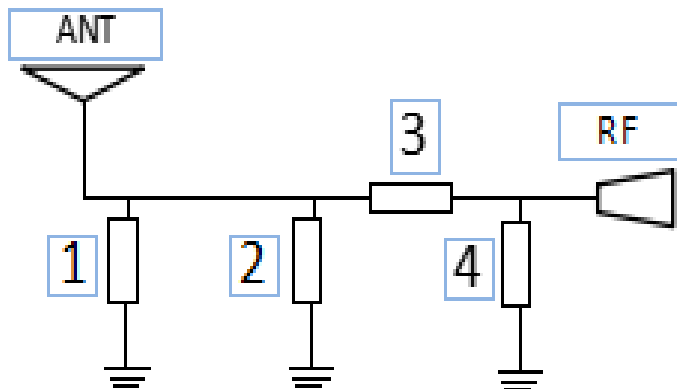
Front view



2、Test system

Serial number	Testing instrument
S11 Parameters	Agilent 5071B
OTA testing	Agilent 5071B & CMW500 & Agilent 8960 &
Gain and efficiency	1.34dBi, 66.66%
Manufacturer	Shenzhen Feisheng Electronics CO., Ltd. 3rd floor, Workshop, No.70 Baotong South Road, Yungu Street, Xikeng Community, Yuanshan Street, Longgang District, Shenzhen

3、Antenna match

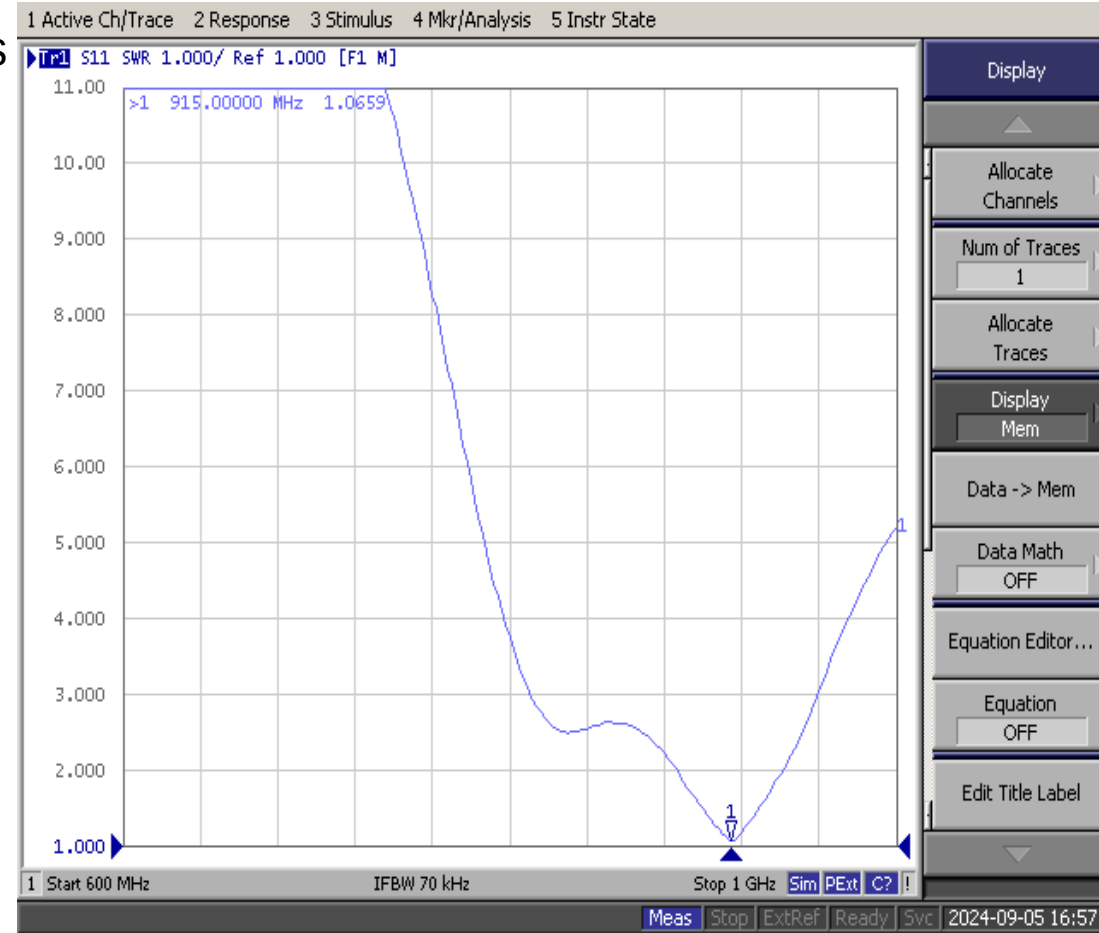


Series	capacitance	inductance
1	N/A	N/A
2	N/A	N/A
3	3PF	N/A
4	N/A	9.1NH

PCB board end matching circuit parallel 9.1NH inductor series 3PF capacitor

4、The antenna test results

4.1 S11 Parameters



Frequency	915
VSWR	1.06

4、Antenna test result

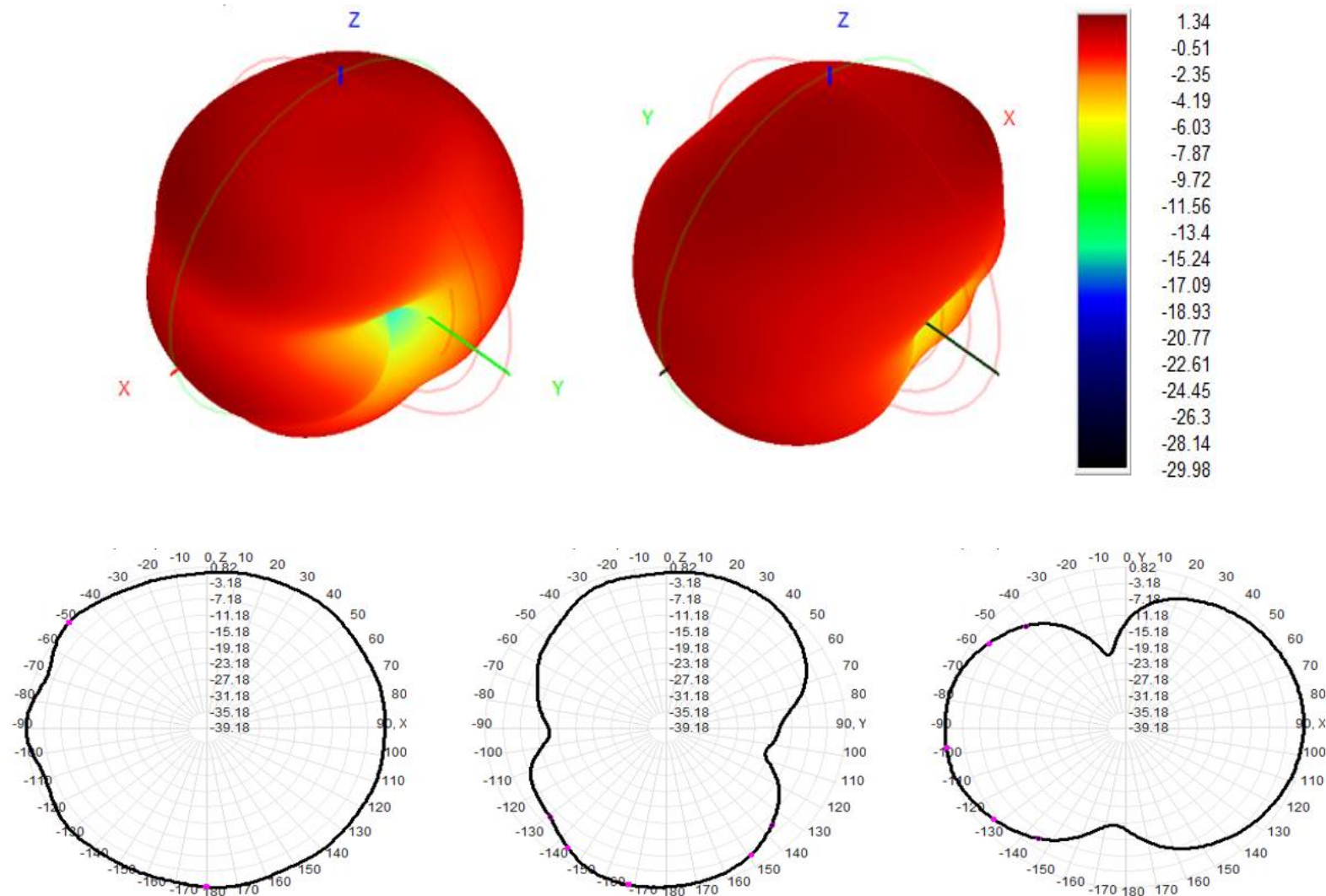
4.2 Efficiency gain

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
915	66.66	1.34

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.