Antenna componentst

频率范围Frequency range	PCB ant：(433.92MHz)
天线增益(Antenna Gain)	0dBi
输入阻抗Input Impedance	50(Ω)
极化方式Polarization	Vertical Polarization
半功率波束(3dB)HPW	180° H-plane 120° E-plane

1 Technical Summary

This report summarizes the electrical results of the proposed antenna to support the **433MHz** ant program.

2 General Description

2.1 Components/Part revisions

VSWR:Voltage Standing Wave Rate.

3 Mechanical Description

4 Electrical Performance

4.1 Set-up

4.1.1 VSWR

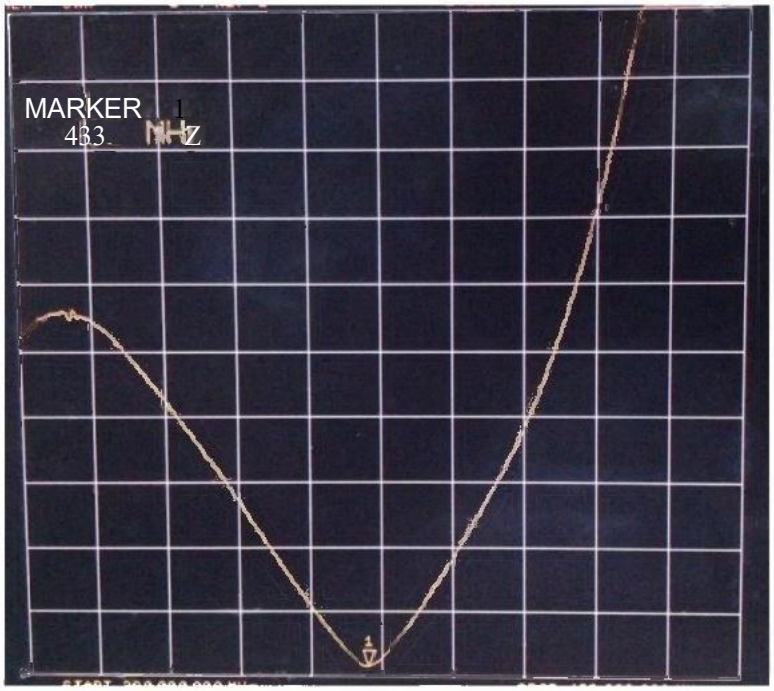
VSWR measurements (S11)were performed using an Agilent 8753D Network Analyzer and the previously described test fixture.Coaxial chokes were used to mitigate surface currents on the outside ofthe cabling.The testing was performed in free space.

4.1.2 Gain &Radiation Patterns

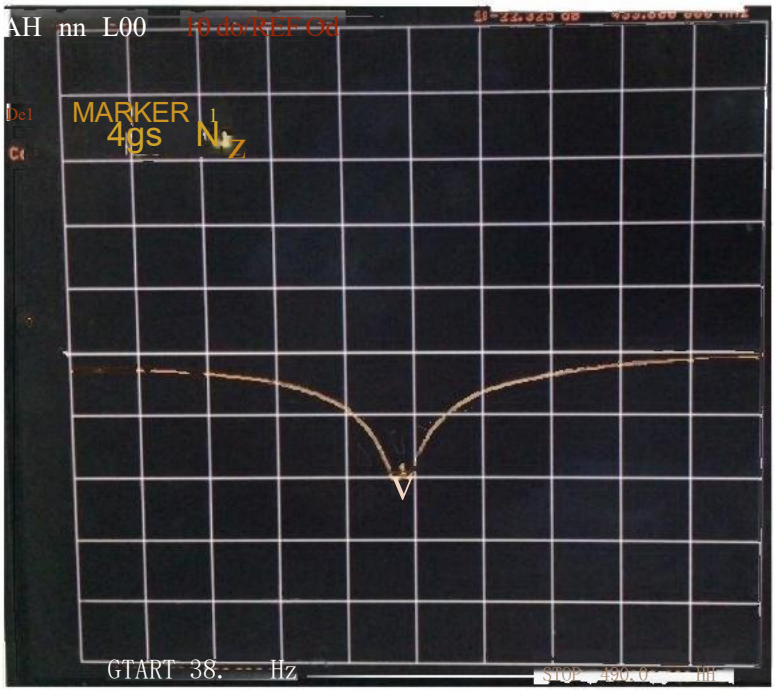
The gain of the antenna was measured in the Lxc's anechoic chamber.Coaxial chokes on the feed cable were used to mitigate surface currents.The chamber provides less than-30 dB reflectivity from 800 MHz through 3 GHz and an 18”diameter spherical quite zone.The measurement results are calibrated using both dipole and leaky wave horn standards.

4.2 Plots

4.2.1 VSWR



Retum loss



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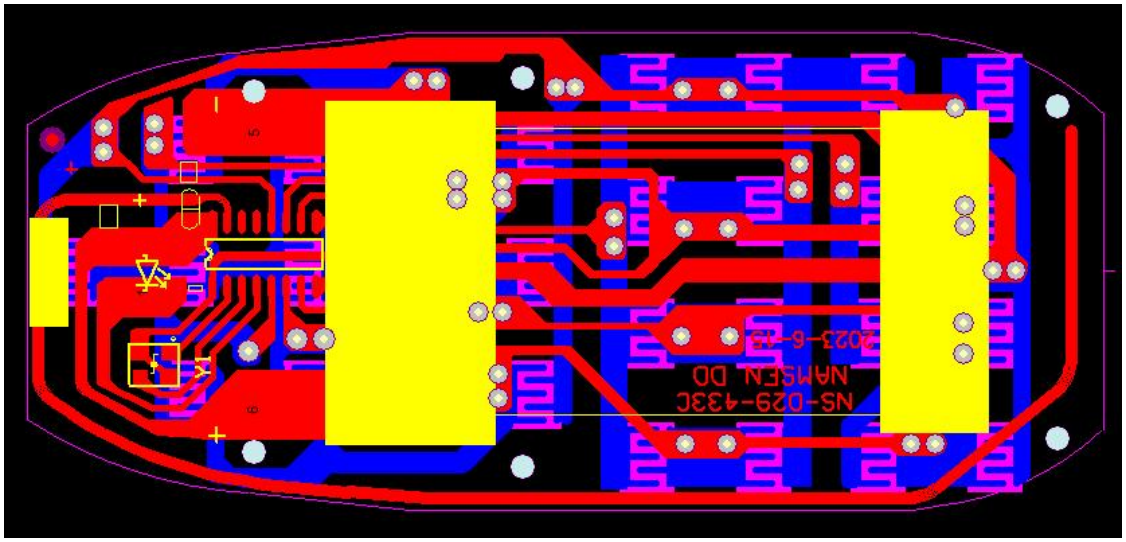
6 Mechanical drawing



7 Reliability tests

7.1 Test content

No	试验项目	试验方法	判定基准
1	盐水喷雾试验	把盐浓度5%的溶液喷雾48HR	不能有变色，歪(变形)脱落等的缺点腐蚀面积不能过大

7.2 Test results

NO	样品数	试验期间	实验结果	备注
1	50	24小时	OK	技术等级为9级 腐蚀<0.4mm
2	50	48小时	OK	技术等级为9级 腐蚀<0.4mm

8 Conclusion

From the above test results,we can know the electrical performance of the antenna is seems good.