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# Antenna report

Product: Antenna

Model: TS-Y531

Color: Black

Company: Shenzhen Chuanqisheng Industrial Co., Ltd

Address: A28301, Tangjia Avenue, Tangjia Community, Fenghuang Street,  
Guangming District, Shenzhen

## A. Description

This report contains several equipment, test environment and test results for the electrical performance test of the antenna, as well as structural drawings and inspection reports of the antenna. The following is the picture of the PCB containing the antenna.











B. Product technical data

Electrical Parameter	
Frequency Range (MHz)	433M
Gain (dBi)	-0.15
VSWR	≤2.0
Input Impedance (Ω)	50
Polarization	
Maximum input power (W)	10
Input connector type	NA
Mechanical Parameter	
Dimensions(mm)	45
Antenna weight (kg)	0.003
Antenna color	bronze
Coaxial cable color	bronze
Antenna Size	80mm*1mm

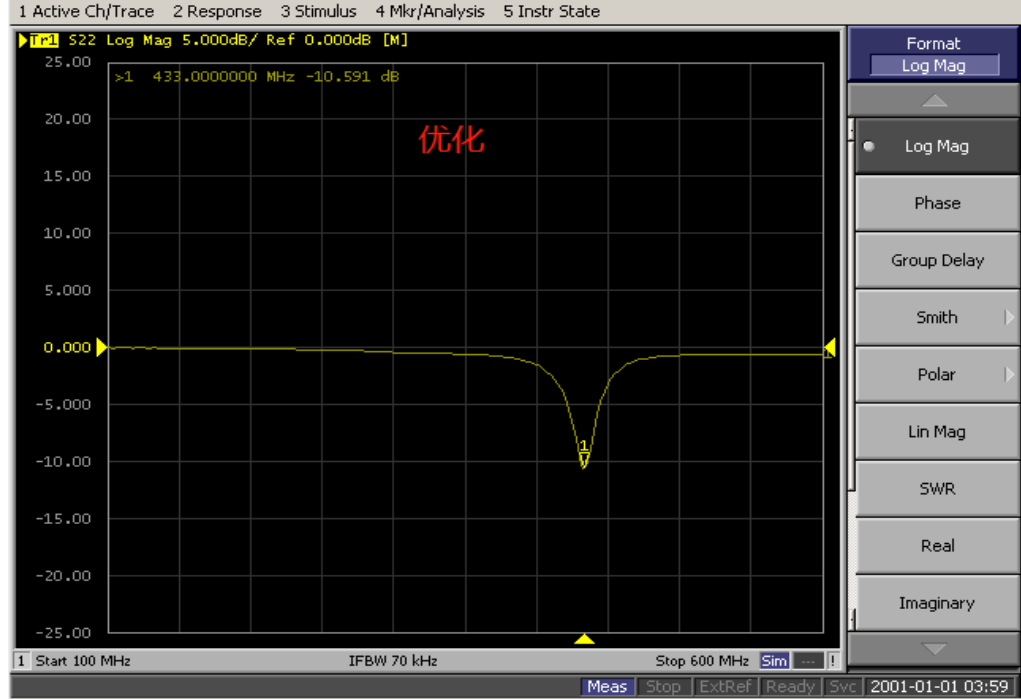
# C .Performance test

## Test equipment and environment

					
SATIMO-24		ETS		模拟人头手 Simulated human head hand	
					
8960		MT8820C		CMW500	
测试系统		测试环境		有源测试	
SATIMO—24		温度：22℃ ± 3℃		支持2G/3G/4G	
ETS		湿度：50% ± 15%		BT/WIFI/GPS	
Testting System		Environment		Active testing	
				无源测试	
				400MHZ——6G	
				Passive testing	

D . Electrical performance test

Return loss



Passive efficiency and gain testing

Freq. (MHz)	Gain	Efficiency (%)
	(dBi)	
433/混 Mix	-0.18	20.32%
433/优化 optimize	-0.15	23.10%

## 3D-chart

