

# 产品规格承认书

Product specifications  
acknowledgment

**承认厂商：** \_\_\_\_\_  
(Recognized manufacturers)

**制造厂商：**           深圳市沃进科技有限公司            
(Manufacturer)

**产品名称：**                   433 弹簧天线                    
(Description)

**产品选型表：**  
(Product Type)

型号	说明	备注
VG433SNX39-6W3	标准 433MHZ (可定制)	可订制

供应商承认签栏		
制表者	审核者	核准者

客户承认栏	
审核者	核准者

## 1.1 Specifications

天线类型 Antennas Type	Antenna for 433M application
频率范围 FrequencRange(MHz)	433MHz+/-20MHz
输入阻抗 Input Impedence ( $\Omega$ )	50 $\Omega$
电压驻波比 V.S.W.R	<2
增益 Gain (dBi)	2.5dBi
极化形式 Polarization Type	垂直 Vertical
功率容量 Power Capacity (w)	50
连接方式 Connector Type	直接焊接
天线颜色 Color	黄色
重量 Weight(g)	1.5
线径 (mm)	0.75
辐射体 Radiator	铜 Cuprum
圈数	实物为准

## 1.2 Antenna Picture



上图型号：VG433SNX39-6W3

(可定制)

\*注： 因天线功能较为敏感，主体周边机构有变更请通知我们评估。

## **2. Electrical Specification**

### **2.1 Test Equipment**

- A. VSWR and input impedance: Agilent 8753/E5071 Network Analyzer
- B. Antenna gain and efficiency: ETS three-dimensional anechoic chamber

### **2.2 Test Setup**

#### **2.2.1 Frequency Range**

#### **2.2.2 VSWR**

Step 1: The antenna is arranged on the customer provided test fixture.

Step 2: The VSWR of the antenna is measured via Agilent 8720/8753 Network Analyzer (see figure. 1).



**Figure.1**

#### **2.2.3 Radiation pattern and Gain**

- A. The 3D chamber provides less than -40dB reflectivity from 800MHz to 6GHz and a 40cm diameter spherical quiet zone. The measurement results are calibrated using both dipoles and standard gain horns (see figure. 2).
- B. The antenna under tested is arranged in the turned table and a decoupling sleeve is used to reduce feed line radiation (see figure. 3).
- C. The measured results of the radiation patterns and antenna gain are obtained from the control system and showed on the monitor (see figure. 4 and 5).

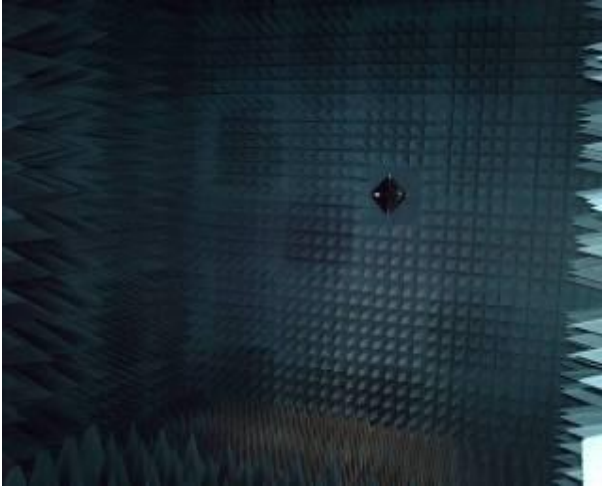


Figure.2



Figure.3

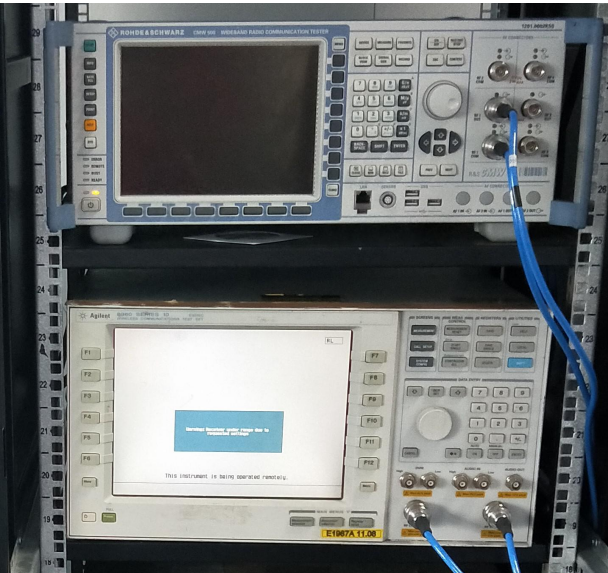


Figure.4

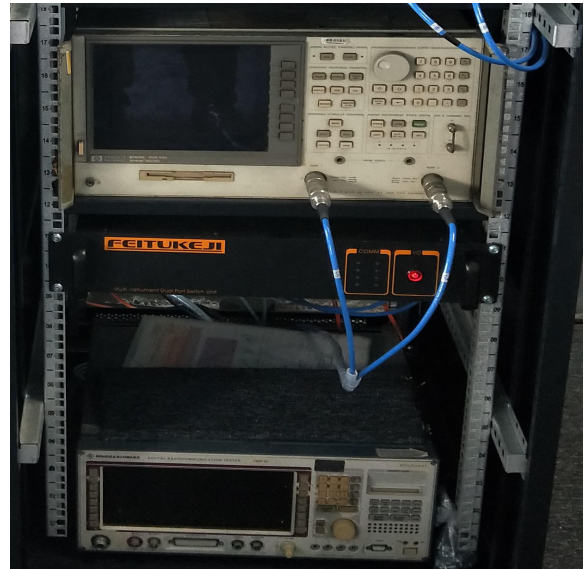
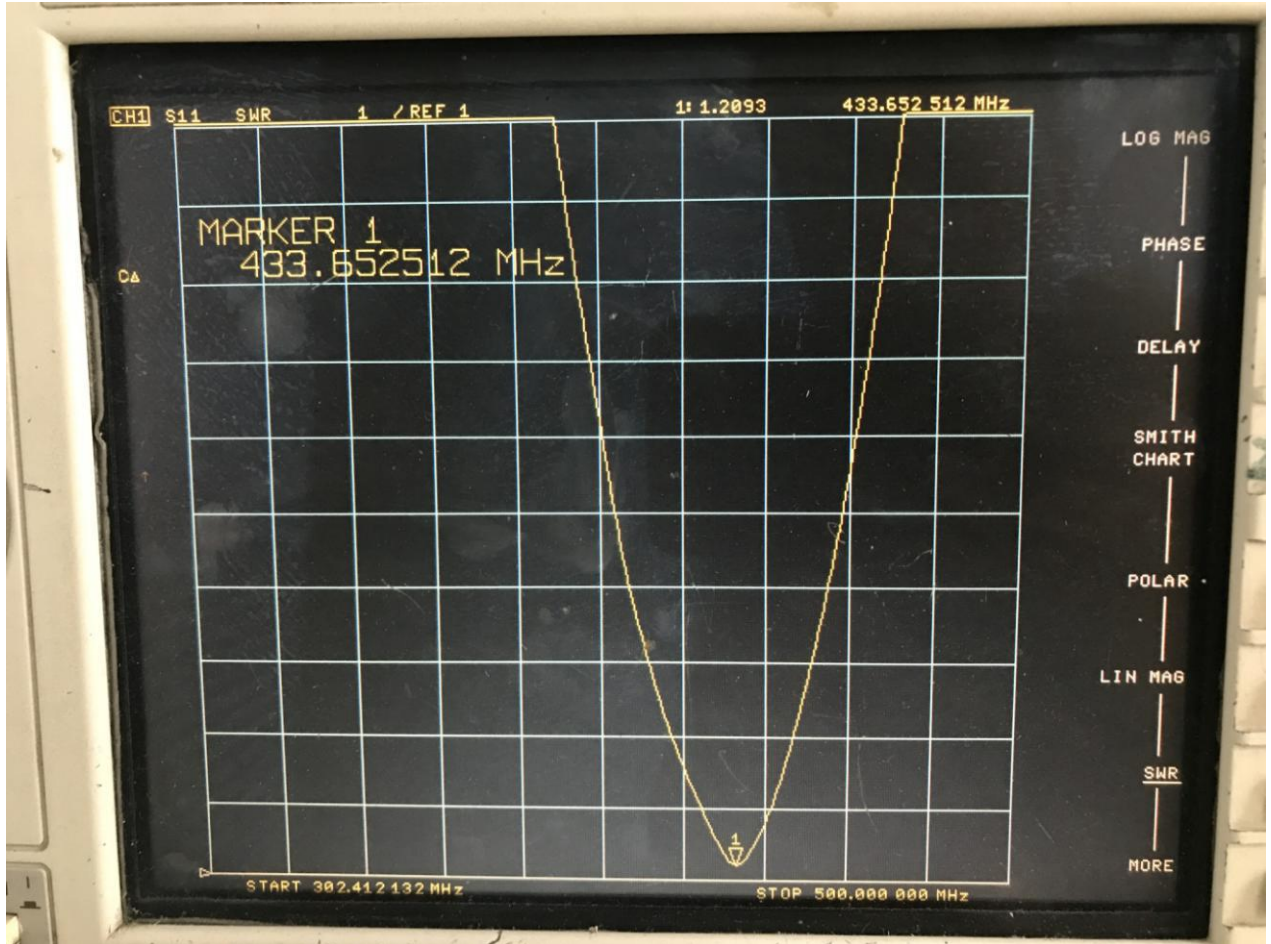


Figure.5

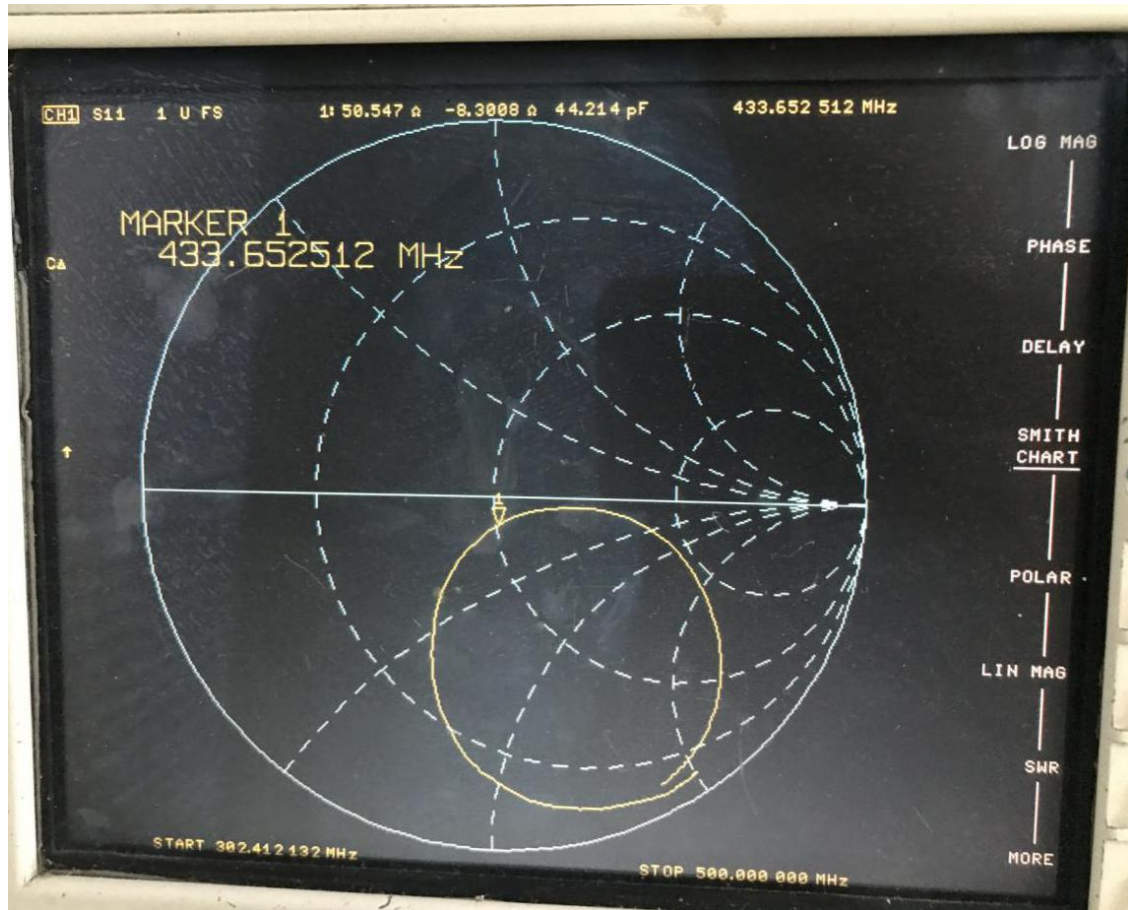
### 3. Performance Data

#### 3.1 Passive data

VSWR (电压驻波比) / Return Loss (回波损耗) / Smith Chart (史密斯圆图)







\*注：以上为实测数据，仅供参考；因天线功能较为敏感，主体周边机构有变更请通知我们评估。

## **4.Mechanical Specification**

### **4.1 Assembly Drawing**

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