

1.1 Specifications

天线型号 Antennas Type	BW433XWX120-8L1000J
频率范围 Frequenc Range (MHz)	433
输入阻抗 Input Impedence (Ω)	50 Ω
电压驻波比 V. S. W. R	<1.5
增益 Gain (dBi)	8dBi
极化形式 Polarization Type	垂直 Vertical
功率容量 Power Capacity (w)	50
雷电保护 Lingtning Protection	None
工作电压 DC Voltage (V)	None
天线尺寸 Dimension (mm)	H=12
接口形式/Connector Type:	SMA 内螺内针
电缆型号 Cable type (mm)	RG174
电缆长度 Cable length(mm)	1000
辐射体 Radiator	
天线颜色 Color	黑色 Black
重量 Weight (g)	None
工作温度 Operating Temperature ($^{\circ}$ C)	-40~80
储藏温度 Storage Temperature ($^{\circ}$ C)	-20~85

*注：以上数据仅供参考；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。

1.2 Antenna Picture



上图型号：BW433XWX120-8L1000J

(可定制)

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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

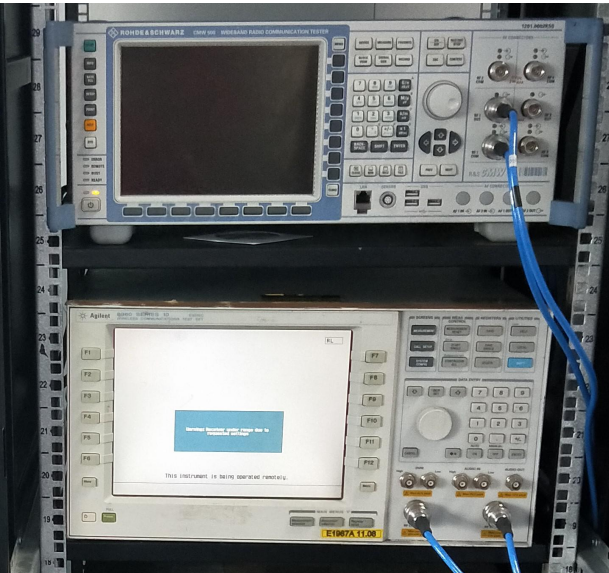


Figure.4

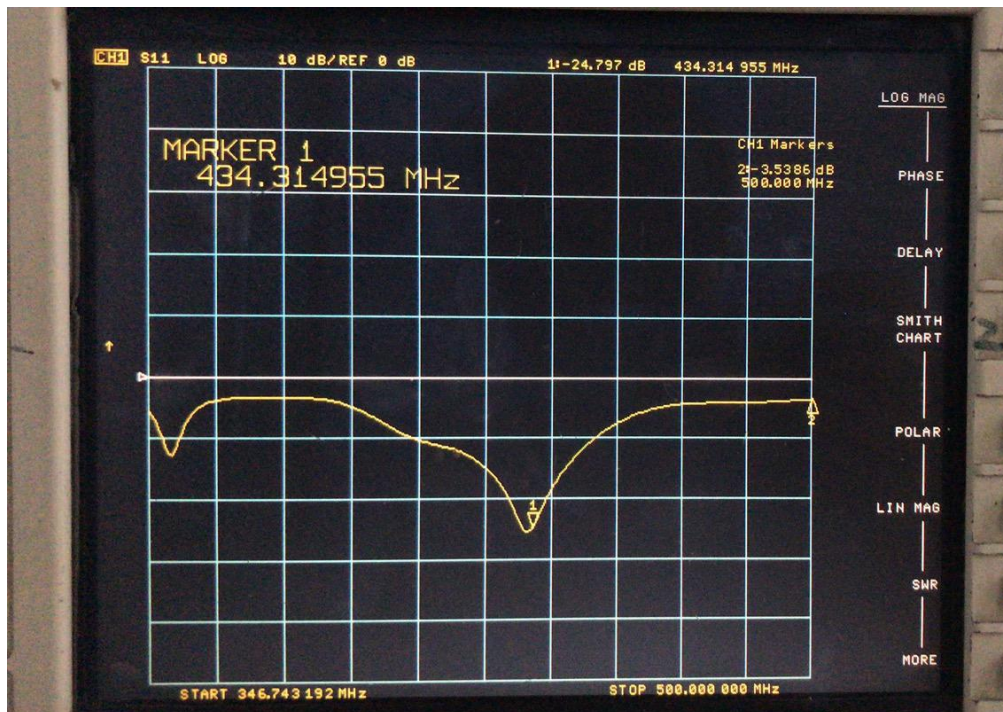
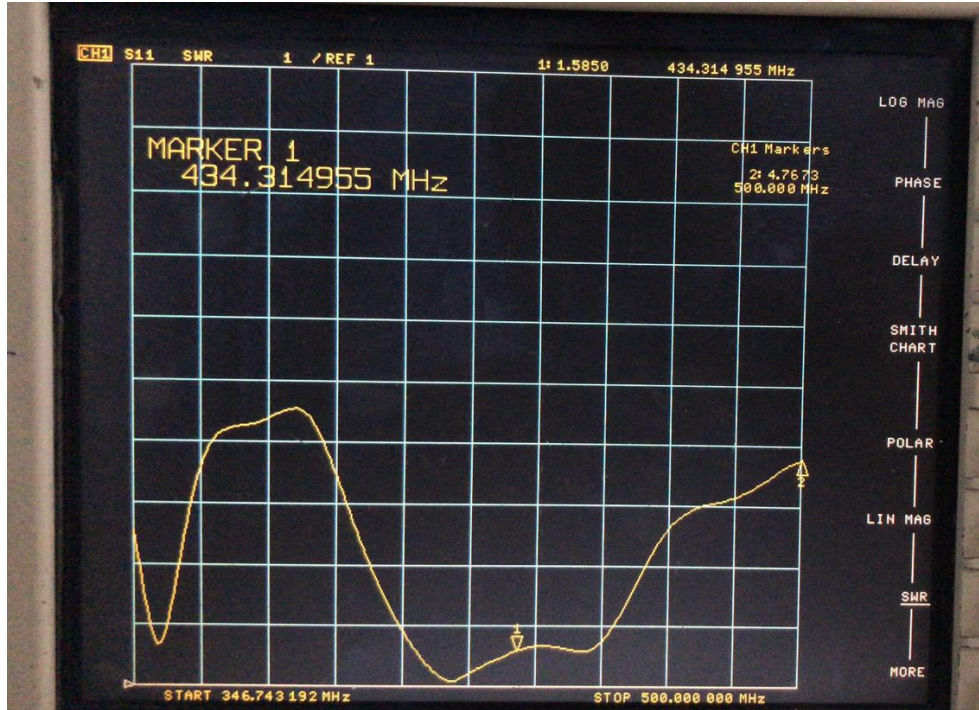


Figure.5

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)

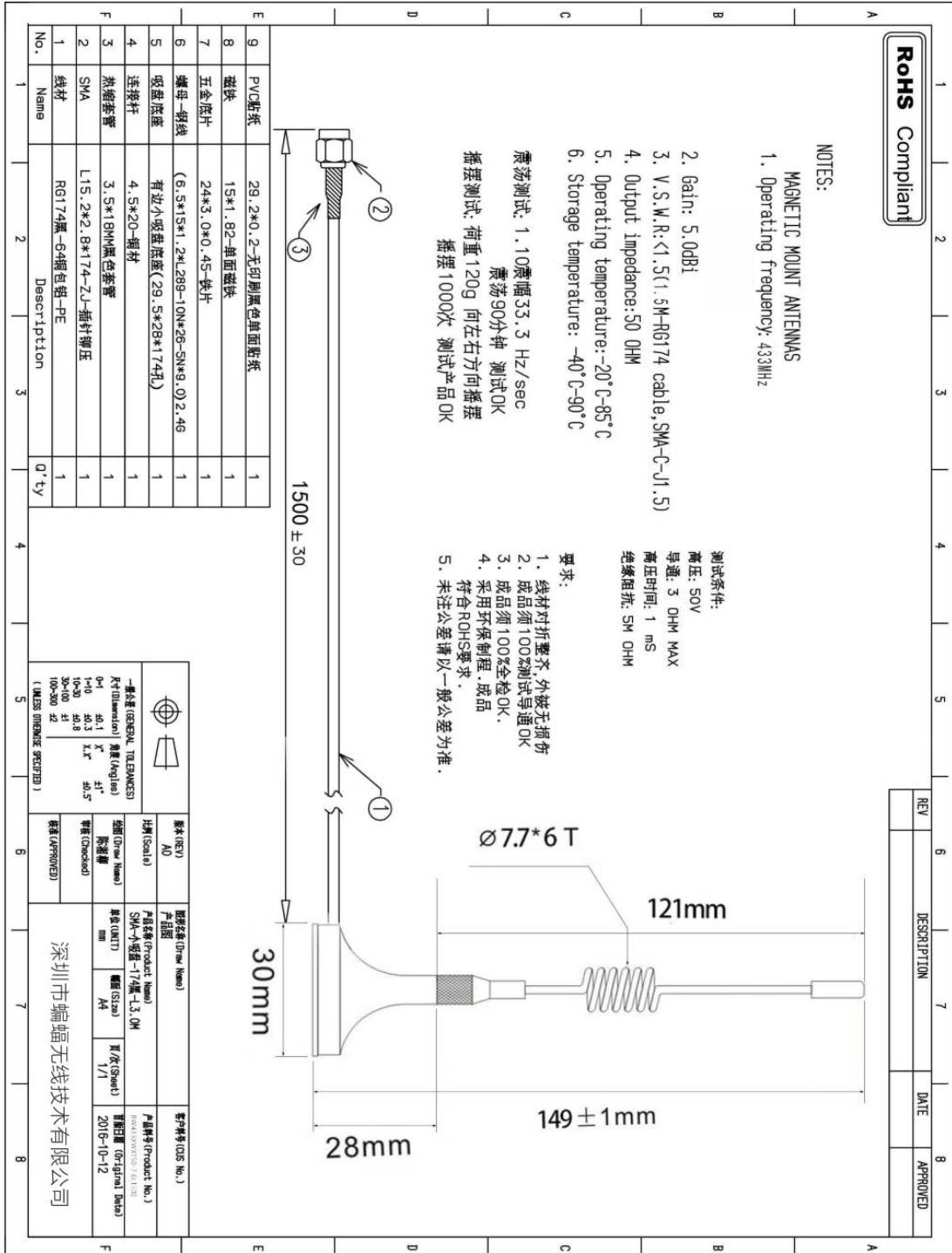




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4. Mechanical Specification

4.1 Assembly Drawing



5.免责声明(Disclaimer)：

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