

# 产品规格承认书

Product specifications  
acknowledgment

承认厂商： \_\_\_\_\_

(Recognized manufacturers)

制造厂商： Shenzhen Bat Wireless Technology Co., Ltd.

(Manufacturer)

产品名称： **2.4G 5.8G Dual frequency stick antenna**

(Description)

产品选型表：

(Product Type)

型号	说明	备注
BW258GJWX50-10WJ	内螺内针	

## 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

天线型号 <b>Antennas Type</b>	BW258GJWX50-10WJ
频率范围 <b>Frequenc Range (MHz)</b>	2400-2500 4800-5900
输入阻抗 <b>Input Impedence (<math>\Omega</math>)</b>	50 $\Omega$
电压驻波比 <b>V. S. W. R</b>	<2
增益 <b>Gain (dBi)</b>	3.02dBi
极化形式 <b>Polarization Type</b>	垂直 Vertical
功率容量 <b>Power Capacity (w)</b>	50
雷电保护 <b>Lingtning Protection</b>	None
工作电压 <b>DC Voltage (V)</b>	None
天线尺寸 <b>Dimension (mm)</b>	50 $\phi$ 10mm
接口形式/ <b>Connector Type:</b>	可折 SMA 内螺内针
电缆型号 <b>Cable type (mm)</b>	None
电缆长度 <b>Cable length (mm)</b>	None
辐射体 <b>Radiator</b>	
天线颜色 <b>Color</b>	黑色 Black
重量 <b>Weight (g)</b>	None
工作温度 <b>Operating Temperature (<math>^{\circ}</math>C)</b>	-40~80
储藏温度 <b>Storage Temperature (<math>^{\circ}</math>C)</b>	-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：BW258GJWX50-10WJ

（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

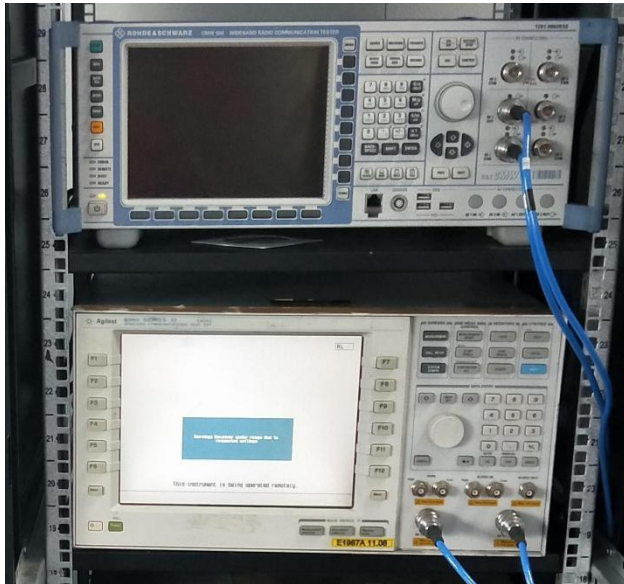


Figure.4

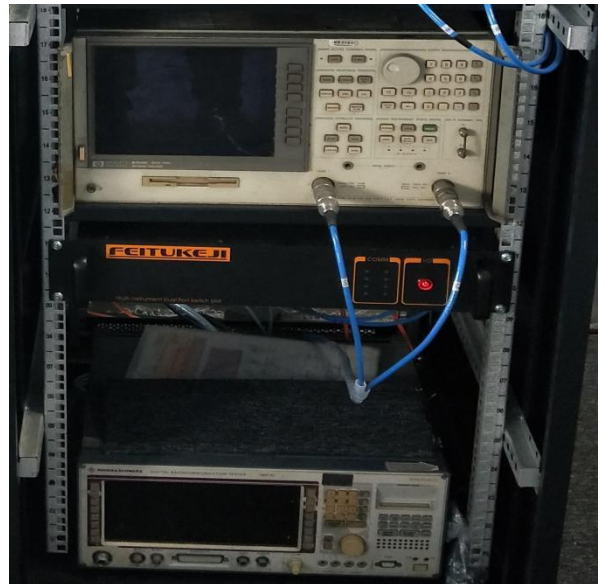


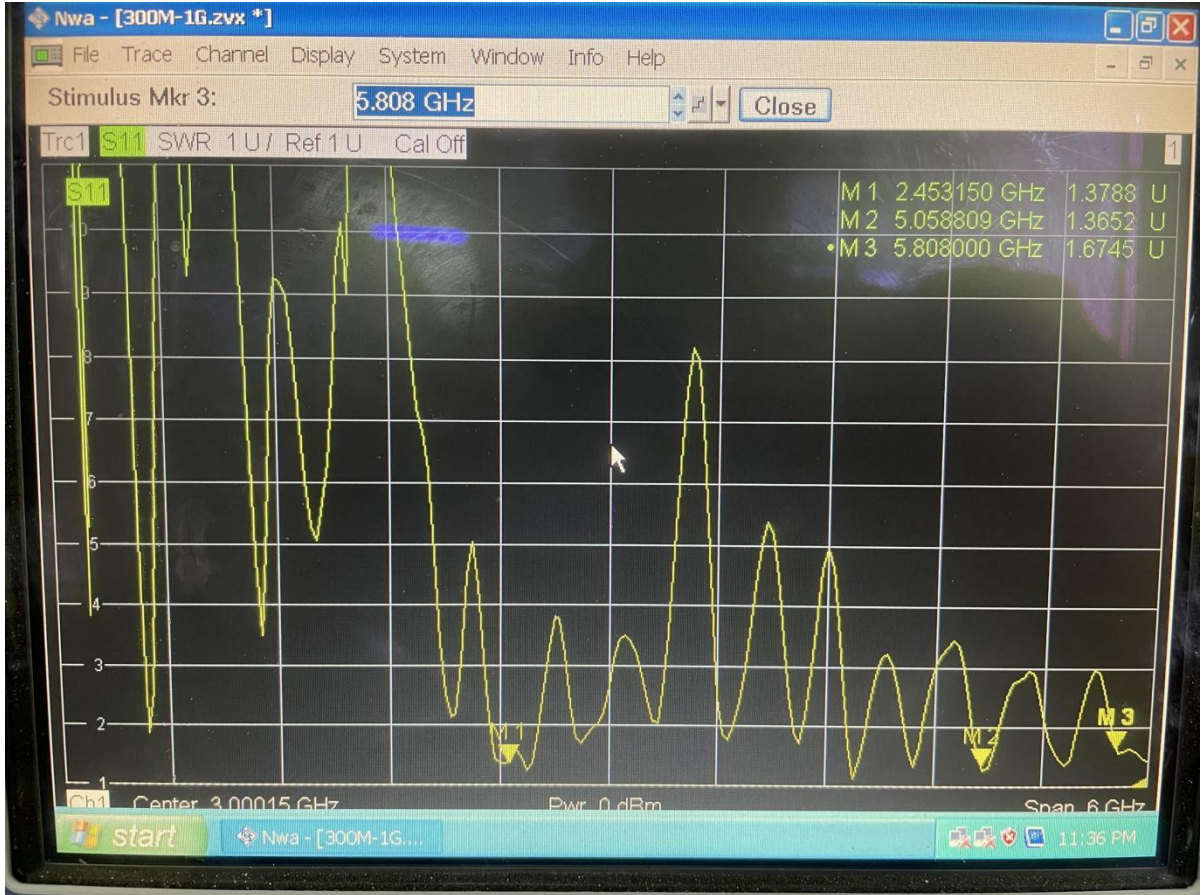
Figure.5

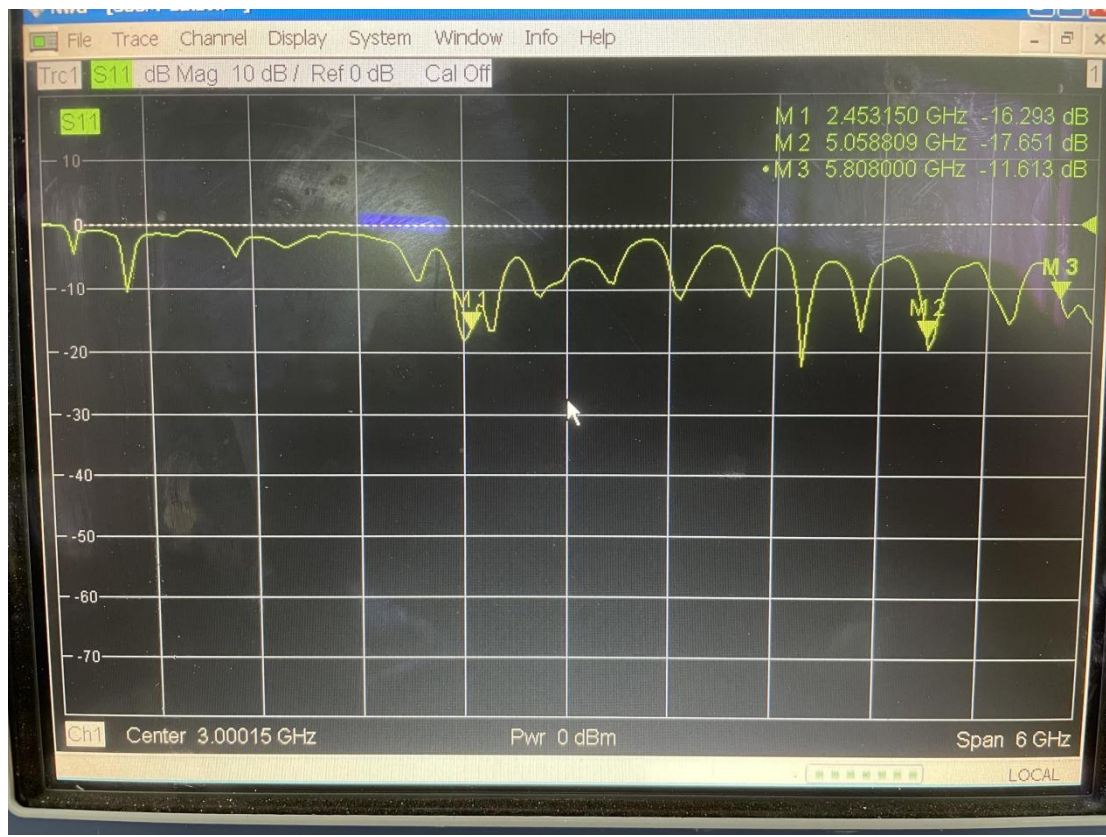
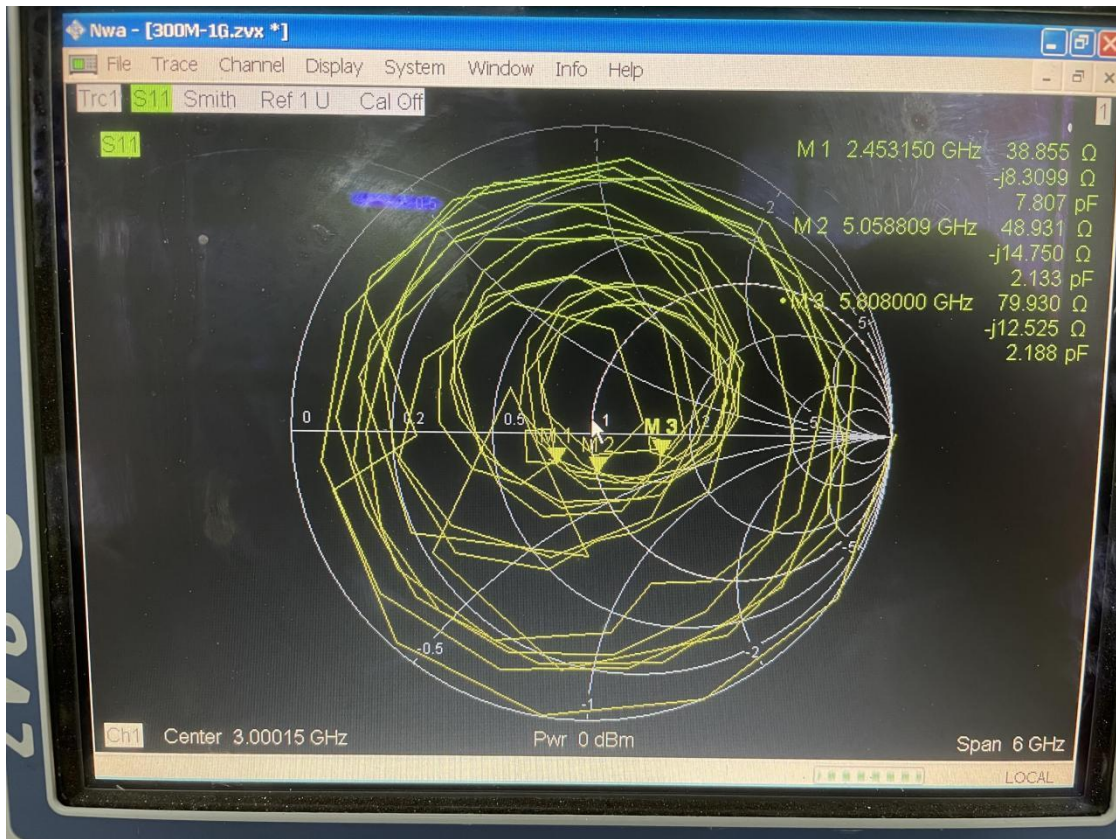


### 3. Performance Data

#### 3.1 Passive data

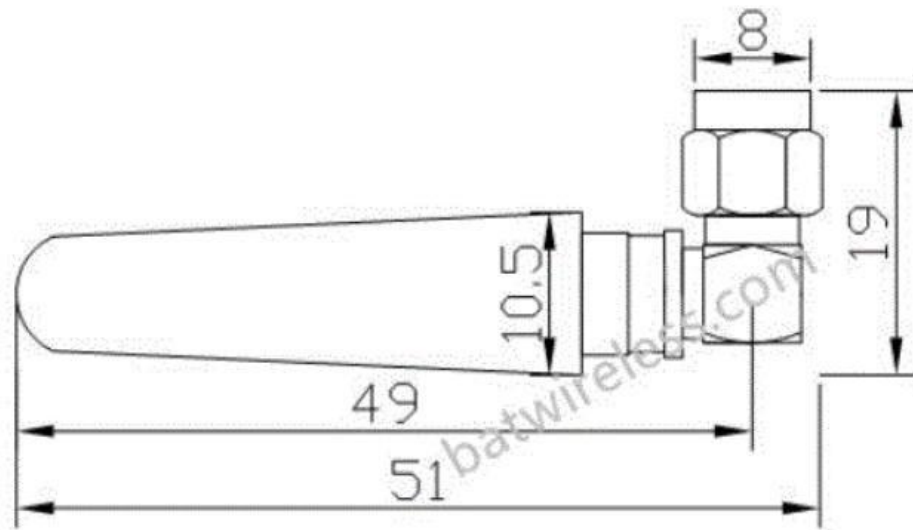
VSWR (电压驻波比) / Return Loss (回波损耗) / Smith Chart (史密斯圆图)





\*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

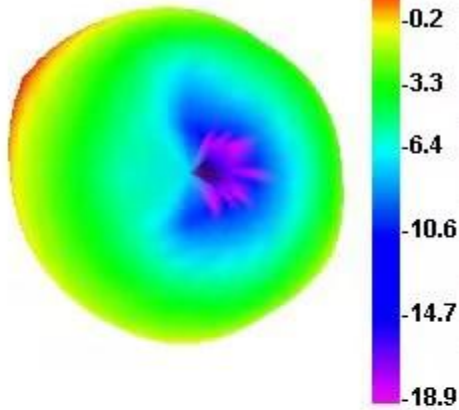
### 4.1 Assembly Drawing

Passive Test For WIFI										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	65.99	-1.8	2.99	0.84	35.629	30.365	2.99	-8.28	48.09	47.94
2410	61.32	-2.12	2.62	0.47	32.762	28.557	2.62	-8.32	48.07	47.87
2420	60.58	-2.18	2.52	0.37	32.121	28.457	2.52	-8.49	48.18	48
2430	61.75	-2.09	2.58	0.43	32.561	29.188	2.58	-9.08	48.17	47.99
2440	64.63	-1.9	2.73	0.58	34.122	30.503	2.73	-9.66	48.33	48.11
2450	66.86	-1.75	2.86	0.71	35.326	31.534	2.86	-9.93	48.44	48.14
2460	67.45	-1.71	2.92	0.77	35.514	31.938	2.92	-9.82	48.41	48.06
2470	68.53	-1.64	3.02	0.87	35.718	32.817	3.02	-9.44	48.49	48.11
2480	67.12	-1.73	2.94	0.79	34.493	32.624	2.94	-11.1	48.63	48.18
2490	64.57	-1.9	2.74	0.59	32.811	31.763	2.74	-12.94	48.76	48.29
2500	63.95	-1.94	2.7	0.55	32.027	31.926	2.7	-14.21	48.69	48.16

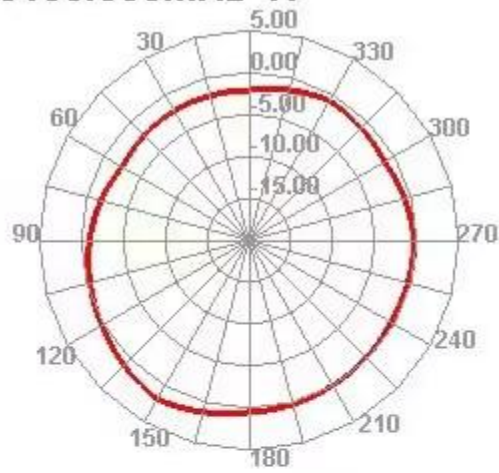
Passive Test For WIFI5G										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
5100	51.31	-2.9	1.88	-0.27	22.733	28.581	1.88	-18.89	57.95	57.06
5200	53.53	-3.61	1.56	-0.59	20.493	23.034	1.56	-18.62	57.55	56.83
5300	48.73	-4.12	1.15	-2	17.671	21.06	1.15	-16.29	57.16	56.32
5400	48.54	-3.14	1.77	-1.38	23.541	24.996	1.77	-14.36	58.32	57.48
5500	54.59	-3.13	2.2	-0.95	25.558	23.028	2.2	-17.86	58.91	57.66
5600	52	-2.84	1.9	-0.25	27.787	24.214	1.9	-17.08	59.51	58.82
5700	63.68	-2.7	2.25	0.1	30.373	23.306	2.25	-19.7	60.54	59.93
5800	65.41	-2.41	1.87	-0.28	33.923	23.488	1.87	-14.83	61.14	60.57



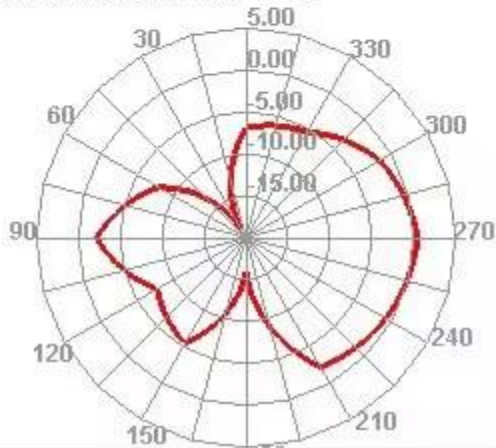
5100.000MHz



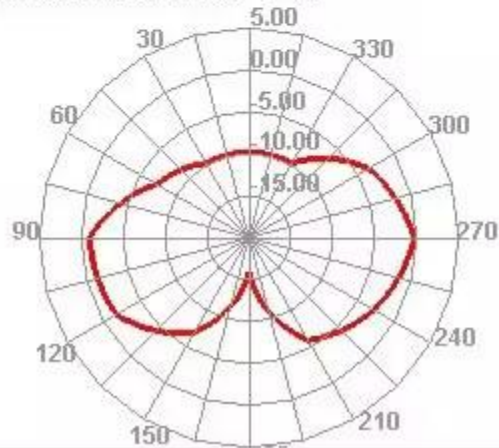
5100.000MHz H

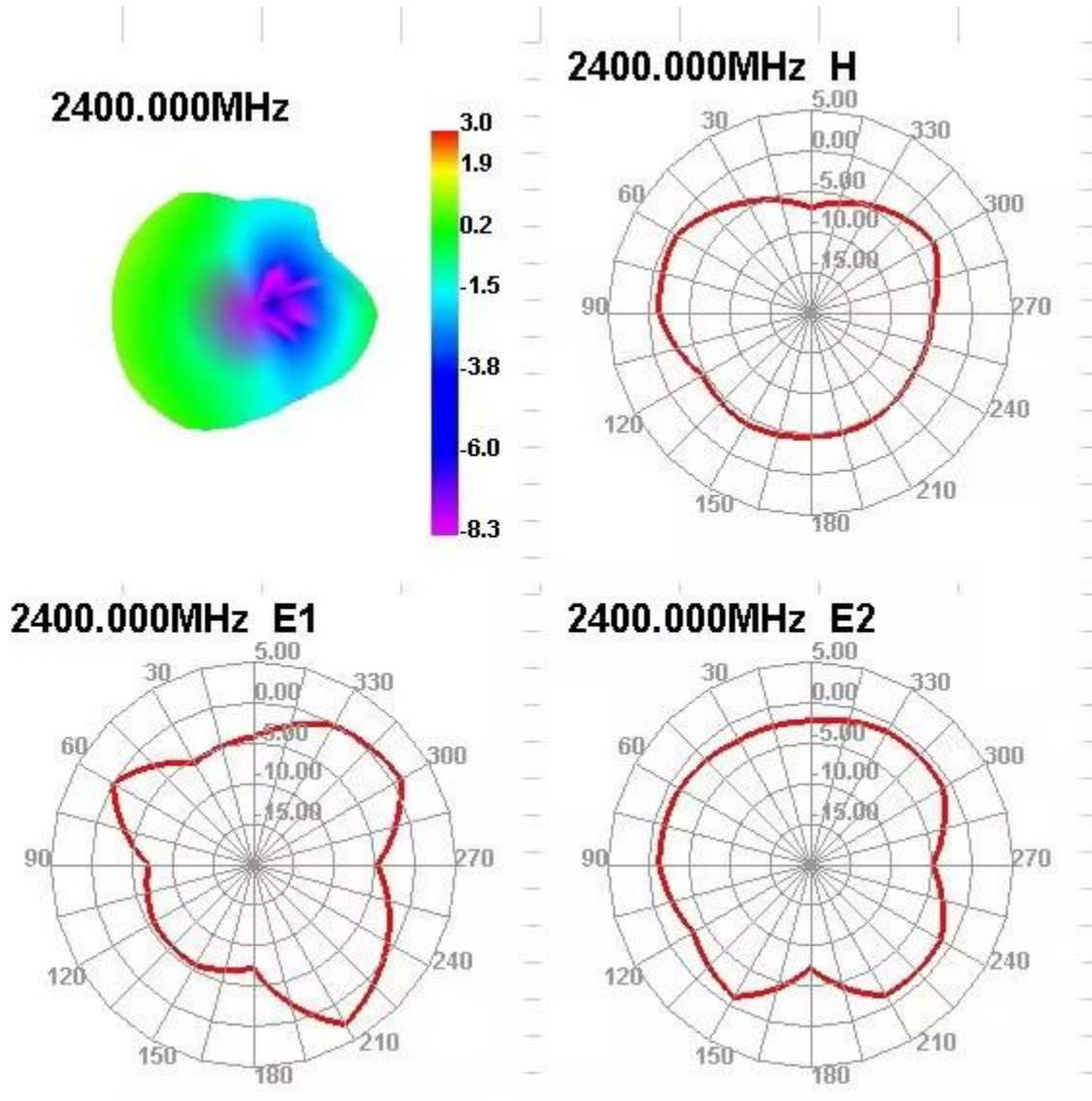


5100.000MHz E1



5100.000MHz E2





## 5. 免责声明(Disclaimer):

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