

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 Antennas Type	BW258GJWX50-10WJ
频率范围 Frequenc Range (MHz)	2400-2500 4800-5900
输入阻抗 Input Impendence (Ω)	50 Ω
电压驻波比 V. S. W. R	<2
增益 Gain (dBi)	3.02dBi
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)	50 ϕ 10mm
接口形式/Connector Type:	可折 SMA 内螺内针
电缆型号 Cable type (mm)	None
电缆长度 Cable length (mm)	None
辐射体 Radiator	
天线颜色 Color	黑色 Black
重量 Weight (g)	None
工作温度 Operating Temperature ($^{\circ}\text{C}$)	-40~80
储藏温度 Storage Temperature ($^{\circ}\text{C}$)	-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：BW258GJWX50-10WJ

（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).

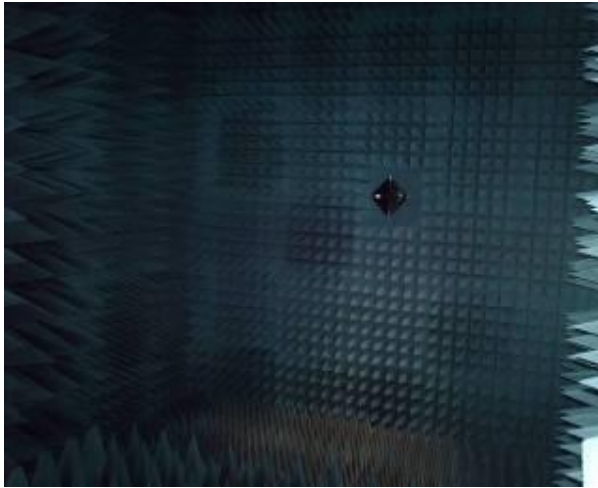


Figure.2



Figure.3



Figure.4

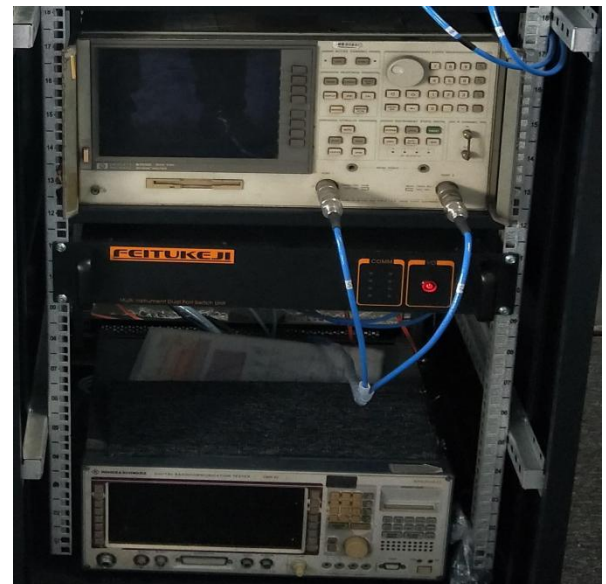
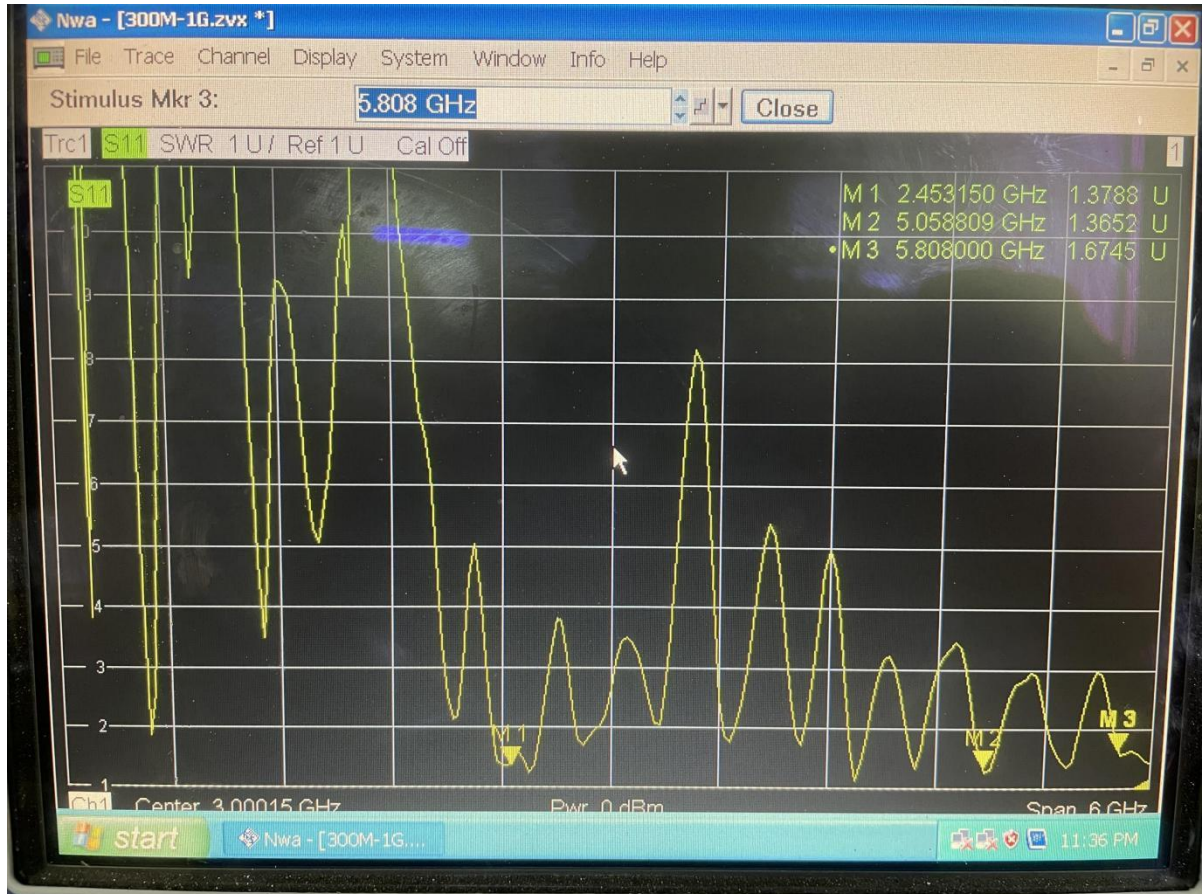


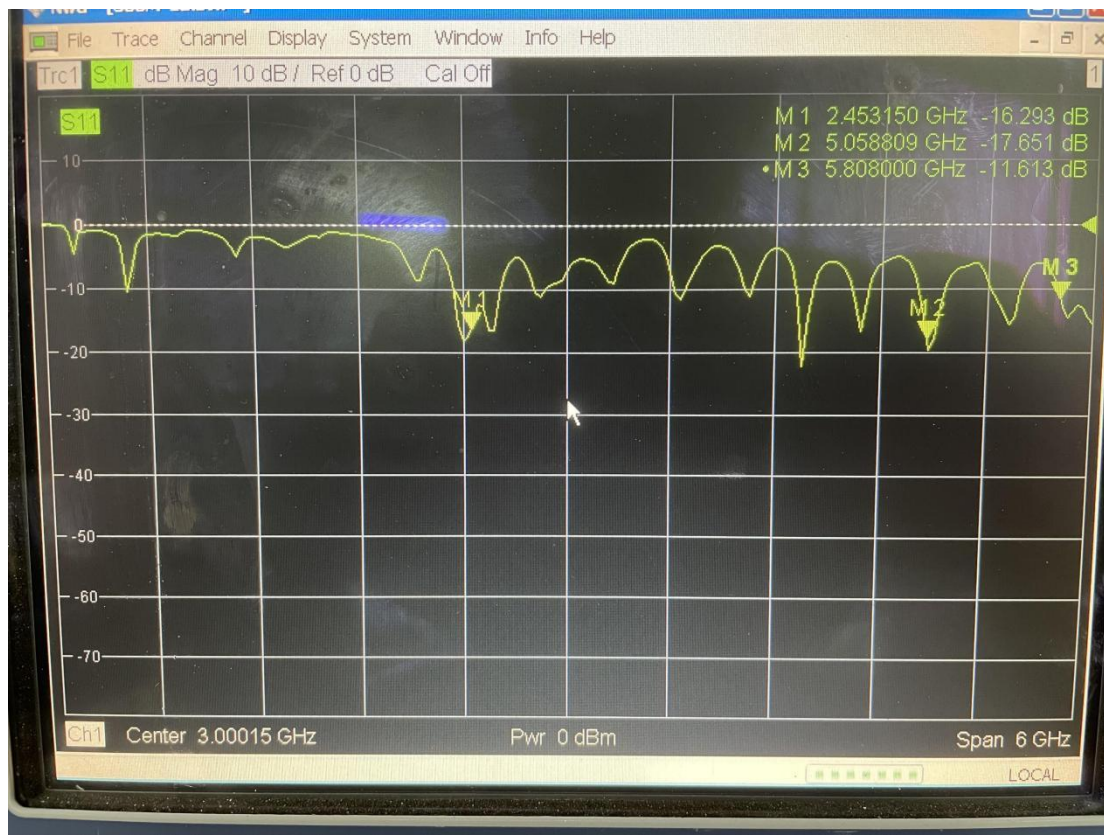
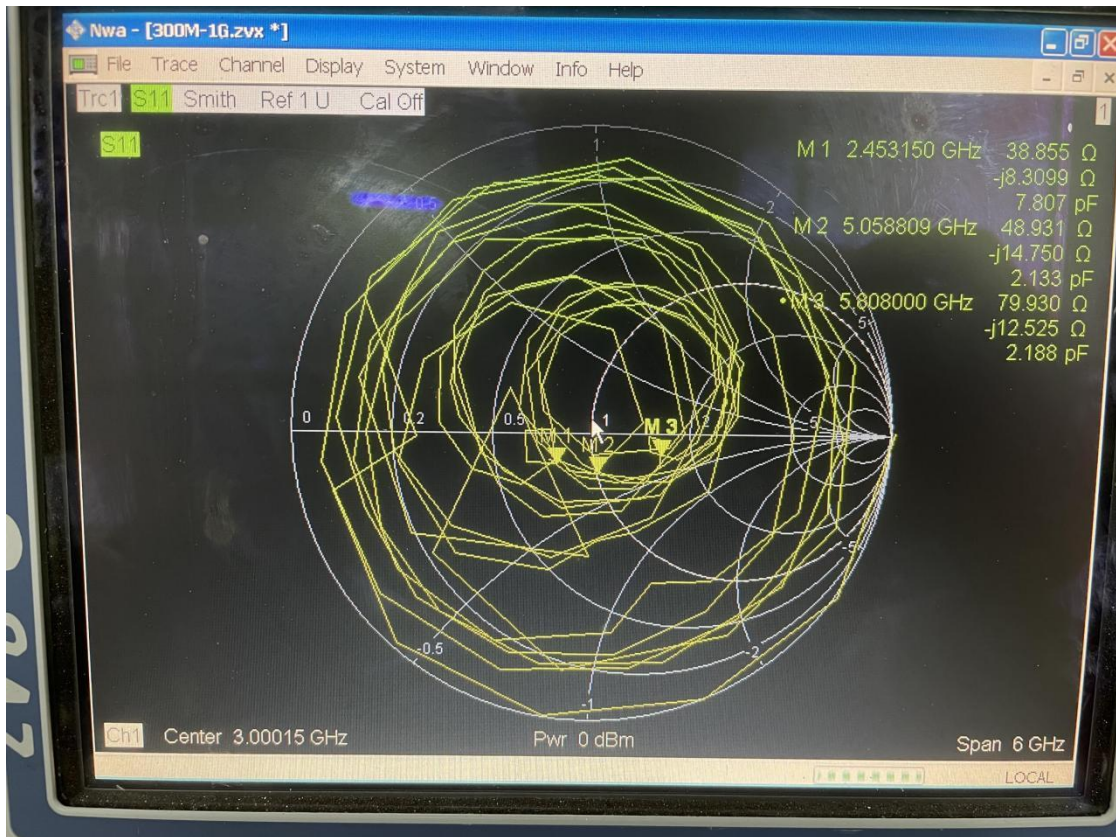
Figure.5

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)

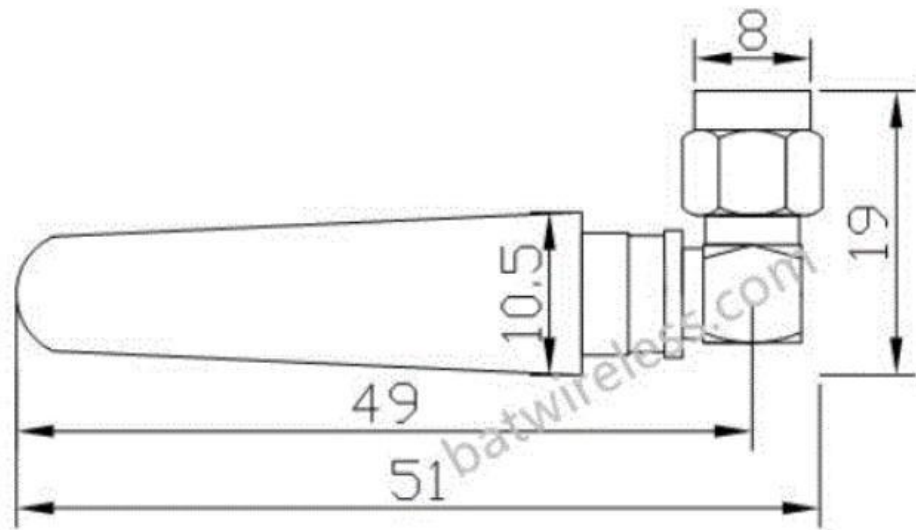




*注：以上为实测数据，仅供参考；因天线功能较为敏感，主体周边机构有变更请通知我们评估。

单位: mm

比例: 1:1

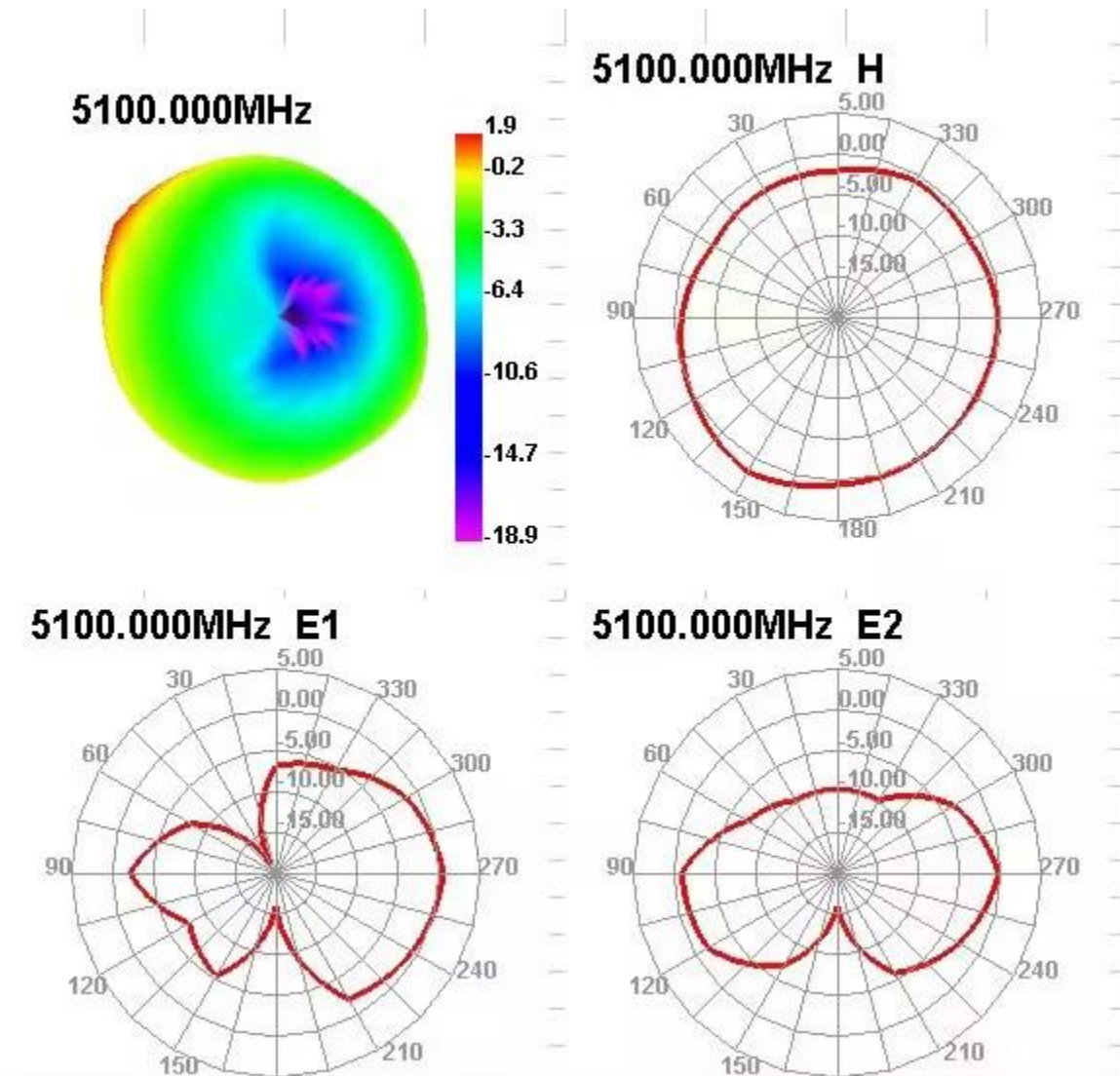


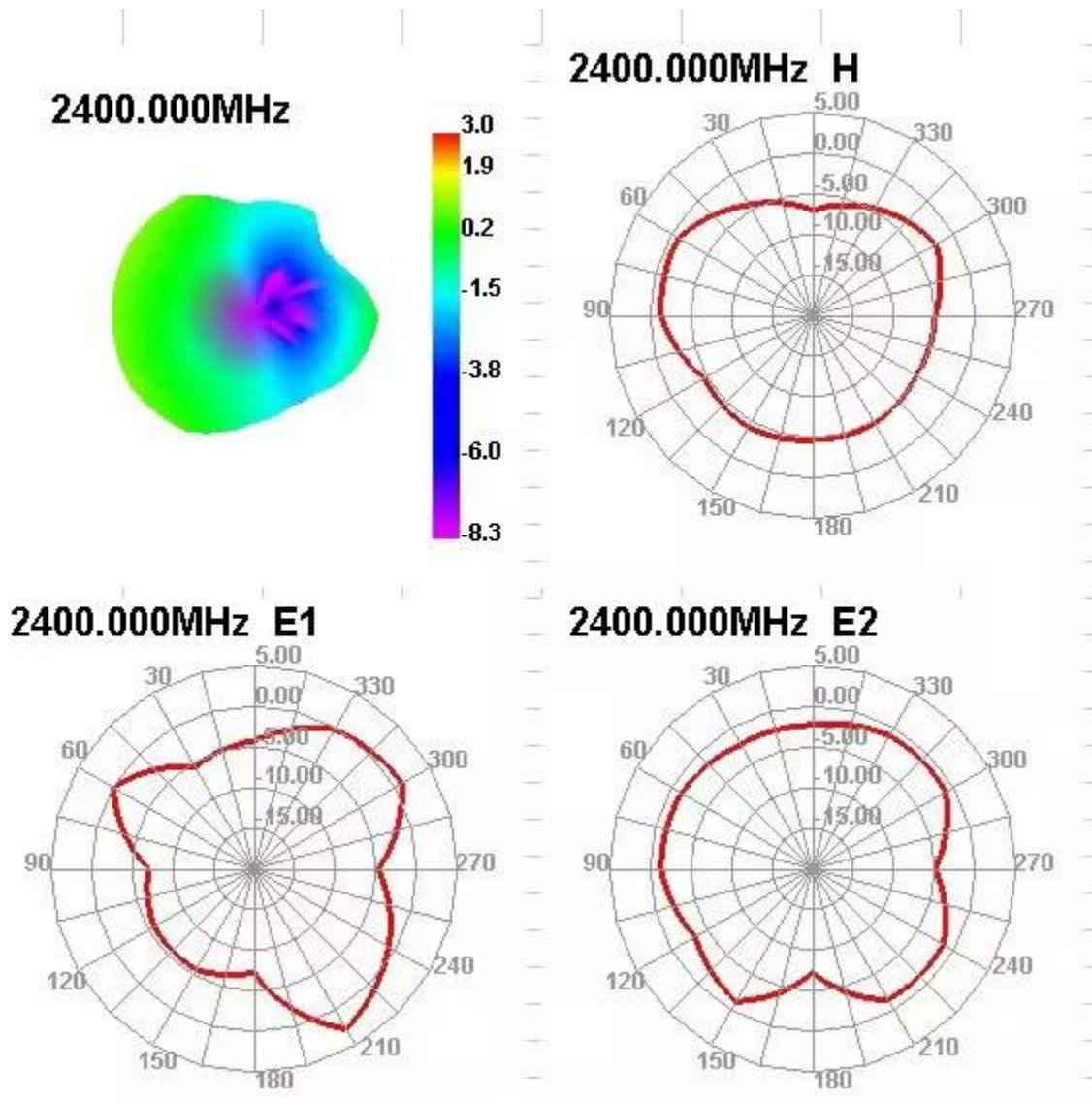
4. Mechanical Specification

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





5.免责声明(Disclaimer):

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