深圳信诺山通信技术有限公司

Shenzhen Signalsen Telecom Technology Co , .Ltd

WIFI 天线规格书

我司料号：W793-1B260B-A

客户： 乐韵瑞			项目名 WiiM AMP
频段： WIFI		日期： 2023.10. 13	版本： R:A
研发	结构：	审核：	批准：
	射频：	审核：	
天线型号:2.4G&5.8G 双频 WIFI 天线,黑色,一代端子同轴线 L=260mm			

Address:

Room 211, Hengbo science and technology Industrial Park, Qingning road, Longhua District, Shenzhen

contents

1. Project information and Electrical Specification

*Those specifications were specially defined for **WiiM AMP**WIFI model, and all characteristics were measured under the model's handset testing jig .*

1-1Project picture

N/A

1-2 Frequency Band:

Frequency Band	MHz
WiFi	2400-2500/5050-5850

1-3 Impedance matching

天线原匹配

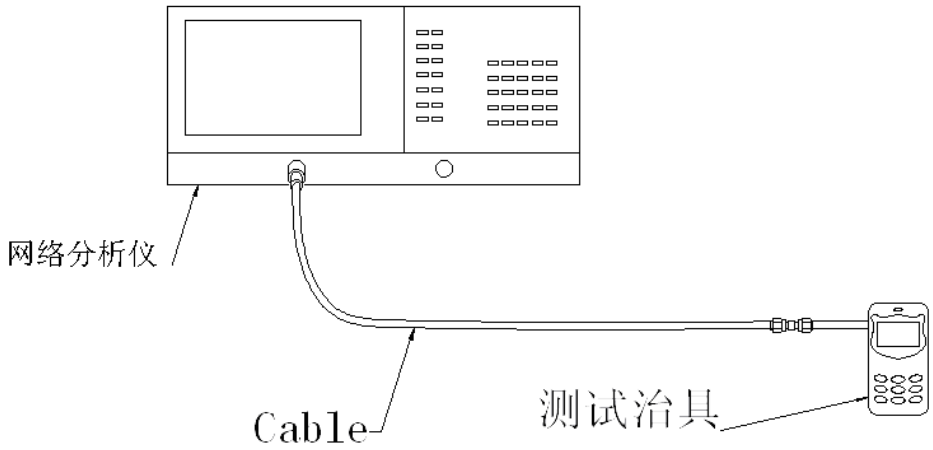
2.VSWR

2-1 Measuring Method:

1. A 50Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the VSWR,

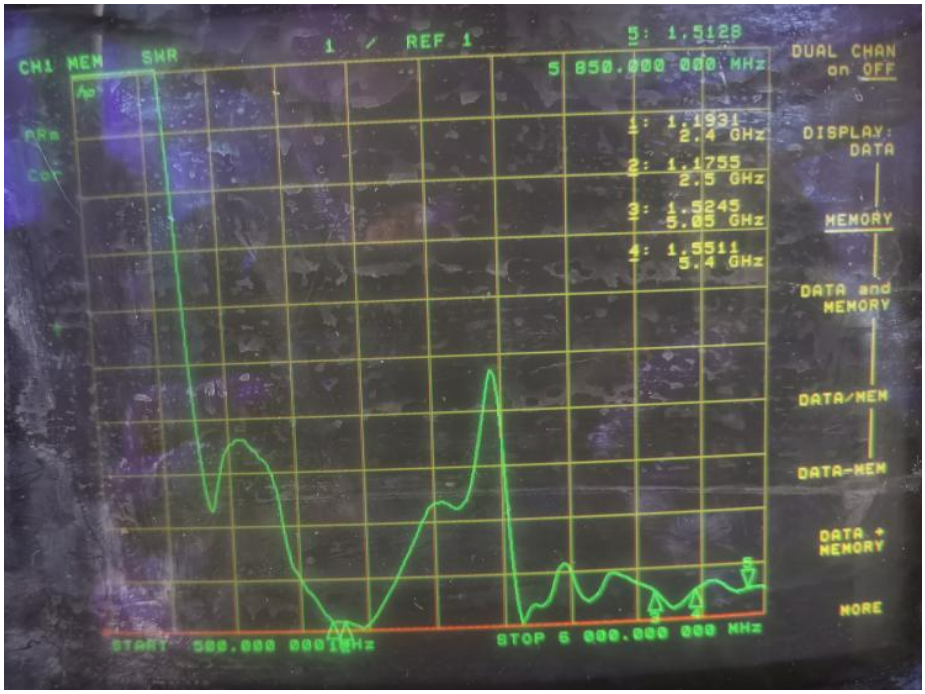
2. Keeping this jig away from metal at least 20cm.

测试示意图如下：



2-2 S11 parameter values

频率（MHZ）	2400	2500	5050	5400	5850
驻波	1.19	1.17	1.52	1.55	1.51



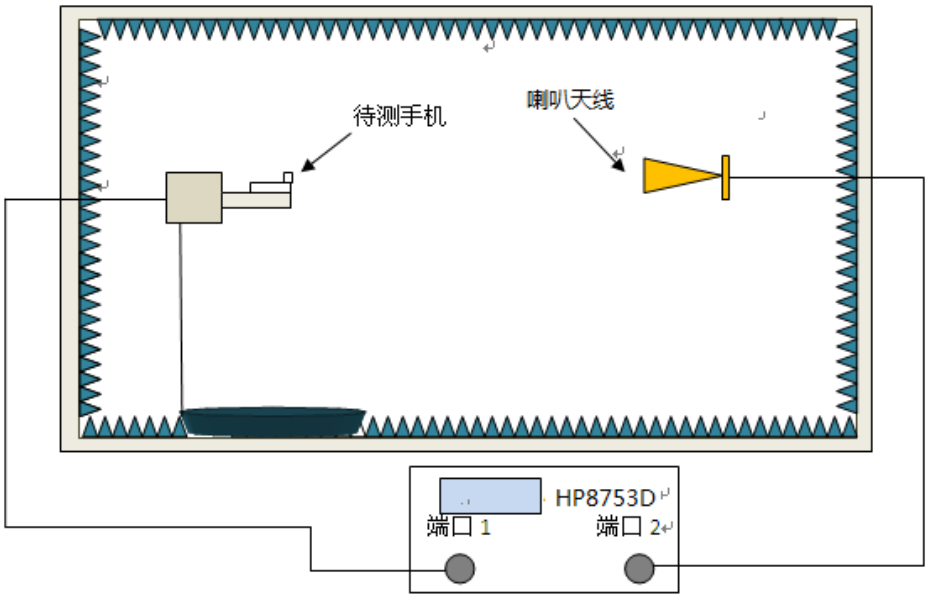
3. Efficiency and Gain

***measuring and test instruments:**

微波暗室，Agilent 网络分析仪，Agilent 频谱分析仪，8960 综合测试仪，标准天线

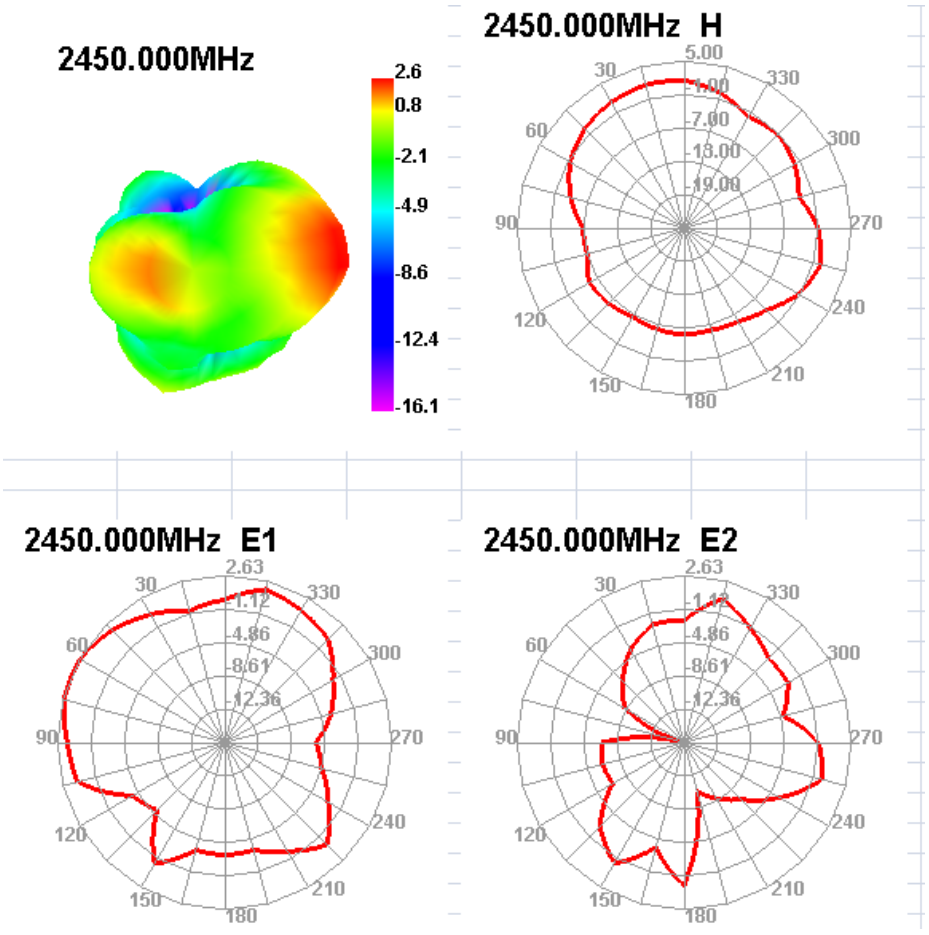
***test method:**

equipment 以 H 面放于转台中心位置固定，与喇叭天线中心位置在同一个水平线上。

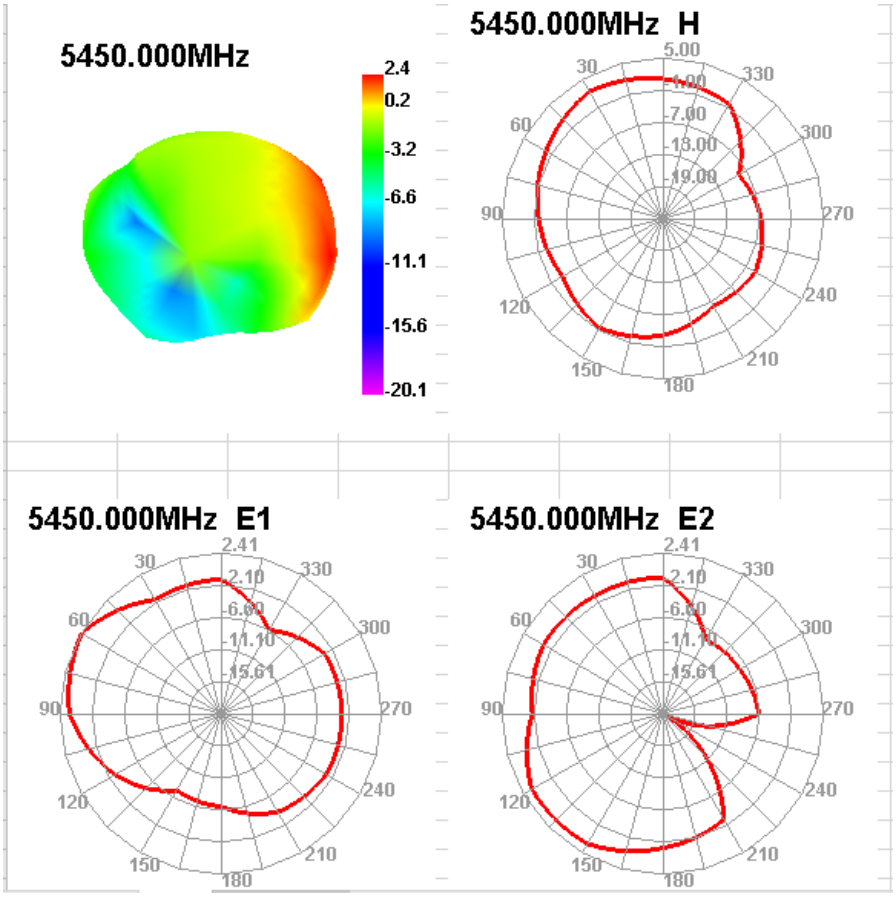


3-1 Efficiency/Gain- WIFI

Freq (MHz)	Effi (%%)	Effi (dB)	Gain (dBi)	Gain (dBd)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	55.82	-2.53	2.67	0.52	2.67	-14.67	51.03	51.21
2450	63.17	-2	2.6	0.45	2.63	-16.11	51.78	51.74
2500	62.37	-2.05	2.51	0.36	2.51	-18.7	51.76	51.66



Passive Test For 5G								
Freq (MHz)	Effi (%%)	Effi (dB)	Gain (dBi)	Gain (dBd)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
5050	49.5	-3.05	2.05	-0.1	2.05	-16.18	61.99	61.33
5450	59.13	-2.28	2.41	0.26	2.41	-20.11	62.48	62.82
5850	49.18	-3.08	1.85	-0.3	1.85	-18.59	64.56	65.16



4. The production index

天线量产时，以驻波比作为量产测试标准。

根据项目本身的差异,给出如下标准：

频率（MHZ）	量产标准
WIFI (2400-2500/5050-5850)	VSWR（量产产品）<VSWR(设计样品)+0.5

5. structural drawings