



烽航 H720 WIFI 天线规格承认书

Product Specifications for Approval

物料编号: WF1084B-A70L-A

客户名称: 烽航

机型: H720

天线频段: WIFI2.4G

版本: R-A

制作日期: 2021-03-19

顺达成科技有限公司研发			
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1. Project information and Electrical Specification

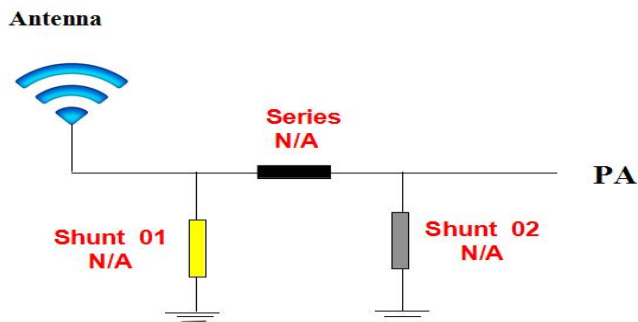
Those specifications were specially defined for 烽航 H720, WiFi, and all characteristics were measured under the model's handset testing jig .

1-1 Antenna picture

1-2 Frequency Band:

Frequency Band	MHz
WIFI2.4G	2400-2500 (MHz)

1-3 Impedance matching



The original antenna match is unchanged

2.VSWR

Measuring Method:

1. A 50 Ω 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.

VSWR parameter values

frequency (MHZ)	2400	2450	2500
Standing wave	1.24	1.33	1.47



3. Efficiency and Gain

*measuring and test instruments:

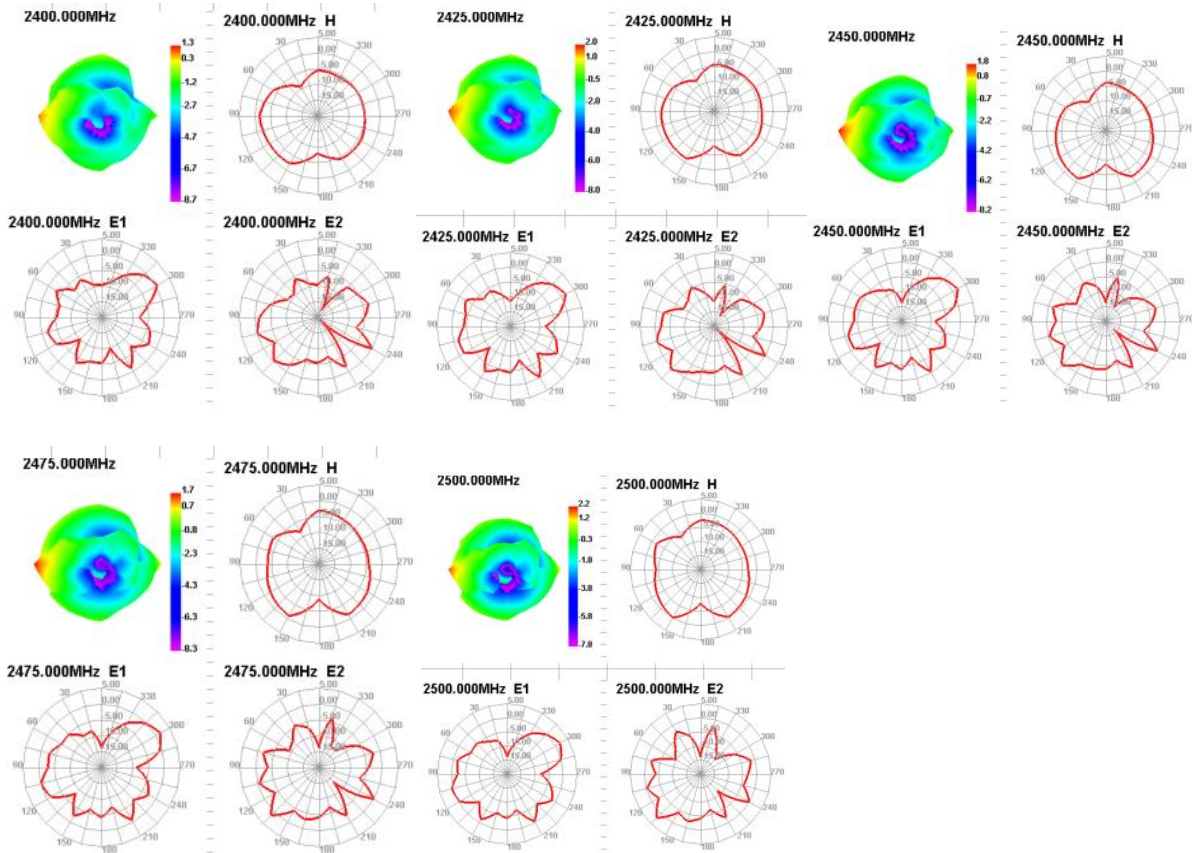
Microwave darkroom, Agilent network analyzer, Agilent spectrum analyzer, 8960 comprehensive tester, standard antenna

*test method:

The equipment is fixed in the center position of the turntable with plane H, and the center position of the horn antenna is on the same horizontal line.

Efficiency/Gain-WIFI

Passive Test For 2.4G												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	irectivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	37.32	-4.28	1.29	-0.86	0	0	1.29	-19.52	4.28	15	48.23	48.39
2425	44.49	-3.52	1.96	-0.19	0	0	1.96	-19.01	3.52	15	48.32	48.45
2450	43.36	-3.63	1.8	-0.35	0	0	1.8	-17.47	3.63	15	48.74	48.76
2475	43.96	-3.57	1.65	-0.5	0	0	1.65	-18.06	3.57	30	49.07	49
2500	51.44	-2.89	2.24	0.09	0	0	2.24	-16.81	2.89	30	49.2	49.11



4. The production index

In the mass production of antenna, the standing wave ratio is used as the test standard. According to the differences of the project itself, the following criteria are given:

Frequency	Mass production standard
2400-2500 (MHz)	VSWR(Production product) <VSWR(Design sample)+/-0.5