

**Regal 813 WiFi Antenna Specification
Recognition Letter
Product Specifications for Approval**

Item No. : WF 3113B-1131L-160

Customer name: Regal

Model type: 813

Antenna frequency band:

the WIFI 2.4G version

Production Date: 2022-1-4

stem or root of plants:R-A

**Shenzhen Ruifeng Electronic
Technology Co., Ltd. Research and
development**

structure:

Chen Wei

**radio
frequency:**

FuXueRong

**examine
and
verify:**

Chen
Qiang

ratify:

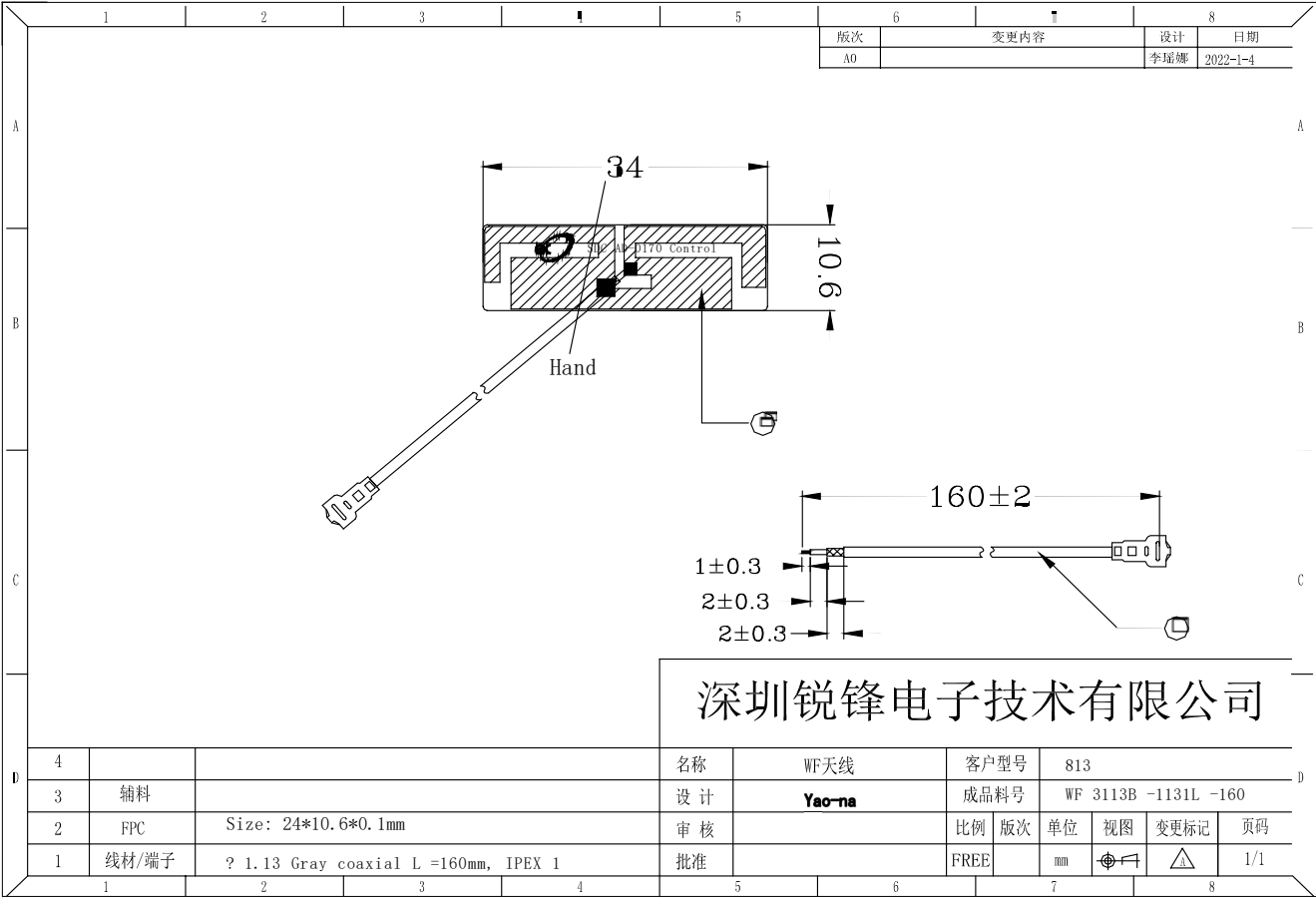
Hua-ming
Chen

Customer confirmation

**Customer
review:**

**Customer
approval:**

Address: Floor 4, Building B5, Xinfu Industrial Park, Chongqing Road,
Fuyong Town, Bao'an District, Shenzhen City
Tel.: 0755-27211658 Fax: 0755-29485750



1. Project information and Electrical Specification

Those specifications were specially defined for Regel 813, WIFI 2.4G, and all characteristics were measured under the model's handset testing jig.

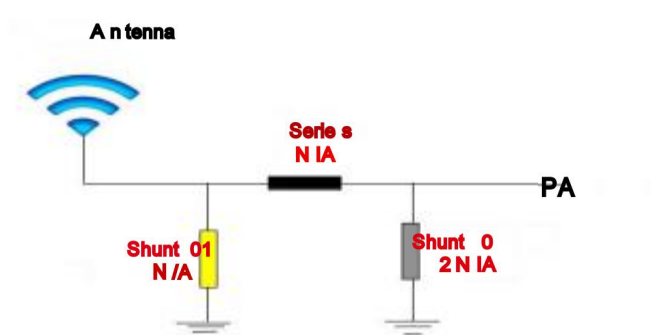
1-1 Antenna picture



1-2 Frequency Band :

Fr equency Band	M Hz
WIFI 2. 4G	2400-2500 (MHz)

1-3 Imped ance matching

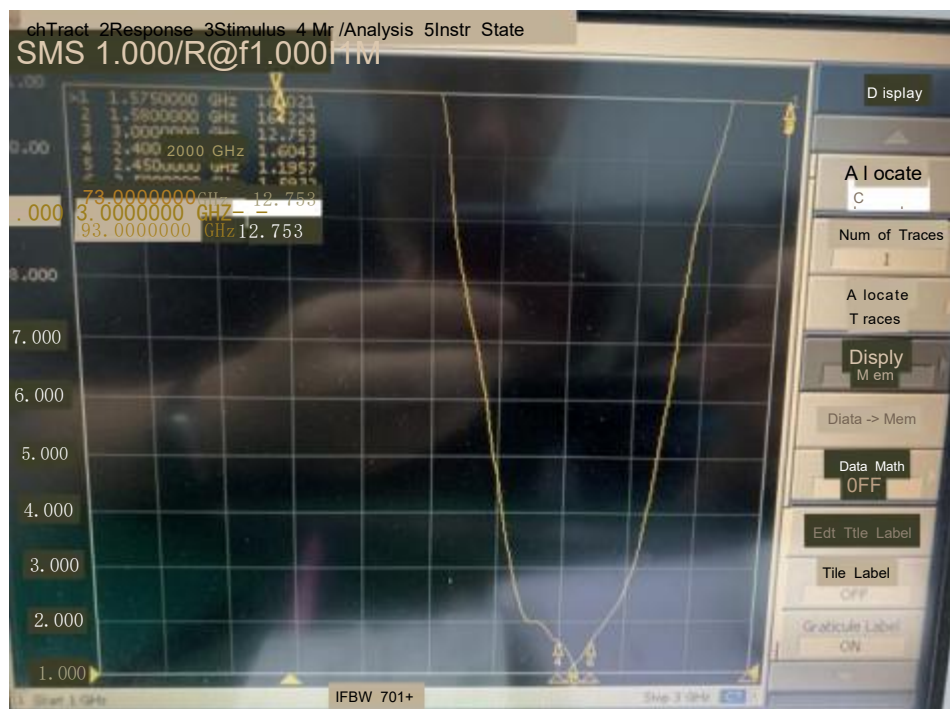


2. VSWR

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 thisjig awayfrom metal at least 20cm .VSWR parameter value

Frequency (MHZ)	2400	2450	2500
standing wave	1.6	1.19	1.59



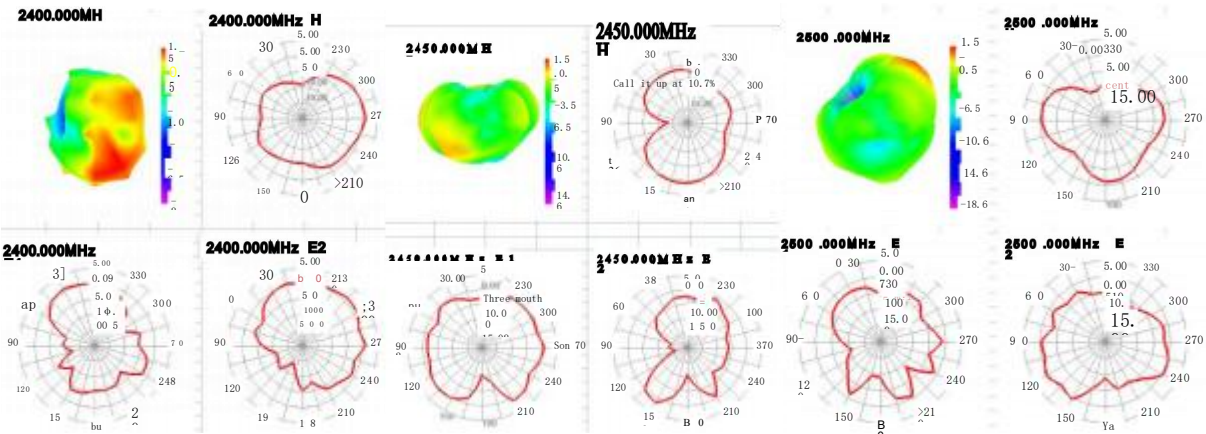
3. Efficiency and Gain *measuring and test instruments :

Microwave Dark Room, Agilent Network Analyzer, Agilent Spectrum Analyzer, 8960, Integrated Tester, standard antenna * test method:

The equipment is fixed at the center of the turntable with the H surface, on the same horizontal line as the center of the horn antenna.

Efficiency /Gain - WIFI 2.4G

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	46. 63	1. 53
2450	46. 13	1. 51
2500	45. 58	1. 45



4.WIFI OTA Data

	802.11b , (2.4G)		
channel	CH1	CH7	CH13
T RP	12. 74	12. 53	12. 68
T IS	-76. 36	-76. 29	-76. 08

4.The production index

When the antenna is in mass production, the resident wave ratio is used as the standard for mass production test.

Based on the differences of the project itself, the following criteria are given:

frequency	Mass production standards
WIFI 2.4G	VSWR (mass production product) <VSWR (design sample) + / -0.5

5.Antenna Assembly & environmental processing

