

WAG-M-LA-00-064 Specification

1. Explanation of part number :

WAG - M - LA - 00 - 064
(1) (2) (3) (4) (5)

(1) Product Type : Wireless Antenna

(2) Material: Metal

(3) Frequency : 2400-2500MHz

(4) Coaxial Cable Type : 00

(5) Suffix :064

2. Storage Condition:

Temperature -40 to +70°C
Humidity 65±20 % RH

3. Operating Condition:

Temperature -40 to +70°C
Humidity 65±20 % RH

4. Electrical Specification :

Those specifications were specially defined for **技威 Gemini wifi** model, and all characteristics were measured under the model's handset testing.

4-1. Frequency Band:

Frequency Band	MHz
WIFI	2400-2500

UNLESS OTHER SPECIFIED TOLERANCES ON :

X = ± X.X = ± X.XX = ±

ANGLES = ± HOLEDIA = ±

SCALE : UNIT : mm

DRAWN BY : 资业辉 CHECKED BY : 赵付辉

DESIGNED BY : 渠宏坚 APPROVED BY : 赵付辉

TITLE : WAG-M-LA-00-064 Specification



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4-2. Impedance

50 ohm nominal

4-3. Matching circuit

None

4-4. VSWR

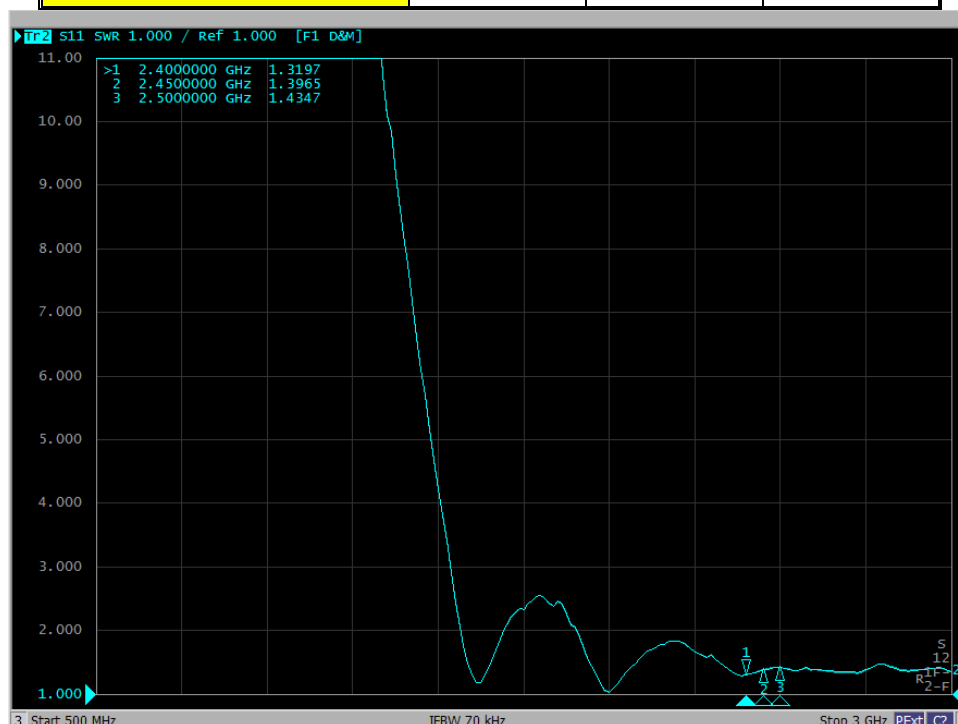
4-4.1 Measuring Method

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

4-4.2 Measurement frequency points and VSWR value

Frequency (Unit MHz)	2400	2450	2500
VSWR	1.31	1.39	1.43



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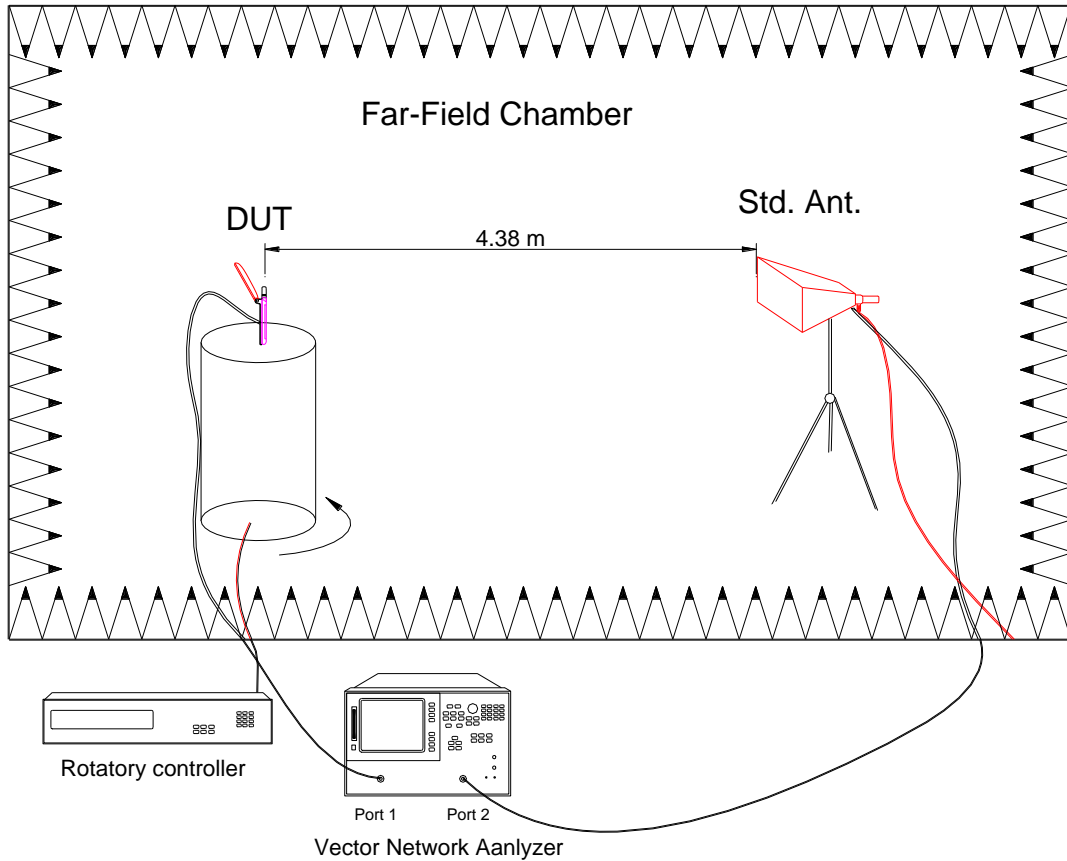
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4-5. Efficiency and Gain

4-5.1 Measure method

1. Using a low loss coaxial cable to link a standard handset jig
2. Fixed this handset jig on chamber's rotator plane
3. Linking jig into network analyzer port and using a probing horn antenna to collect data.
4. Using another standard gain horn antenna to calibrated those data

4-5.2 Chamber definition



1. An anechoic chamber (7mx4mx3m) which satisfied far-field condition was applied to avoid multi-path effect
2. The quiet room region is 40cmx40cmx40cm at the center of rotator
3. The distance between DUT and standard antenna is 4.38 m
4. Probing antenna (9120D horn antenna) and standard gain horn antenna (BBHA9120 LPF 700MHz ~6GHz)

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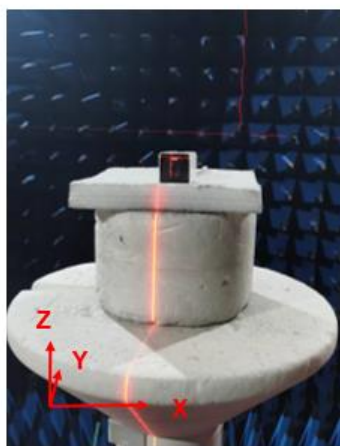
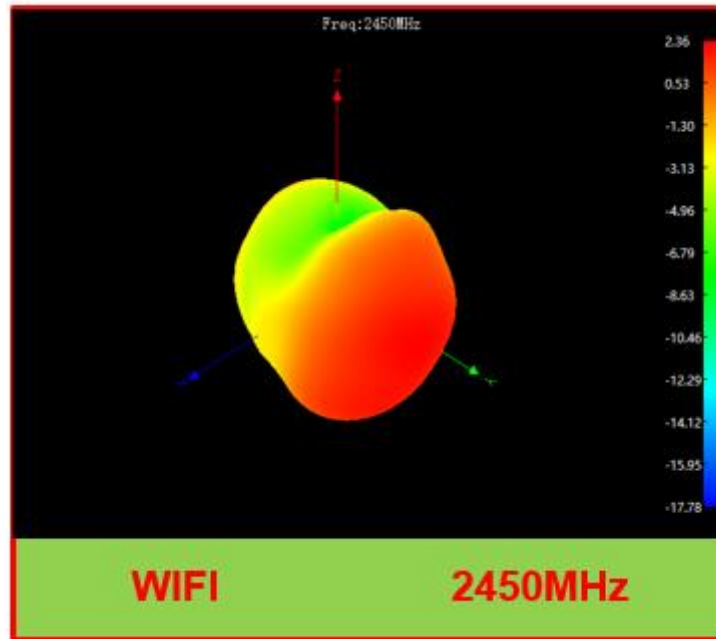
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4-5.3 Efficiency and Gain

Antenna gain is marked (dBi) and is based on STANDARD HORN antenna. The data shows Peak Gain and Average Gain.

Frequency (MHz)	2400	2450	2500
Efficiency (%)	53.59	56.21	53.84
Gain (dBi)	2.12	2.36	2.32

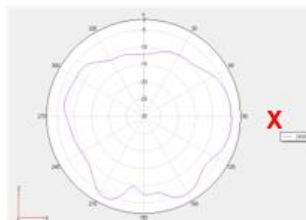
2.4G 2D&3D Radiation Pattern



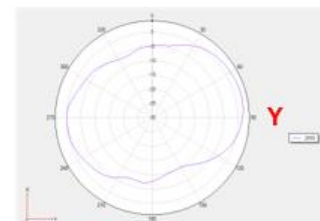
PASSIVE SYSTEM ALLIANCE
INPAQ TECHNOLOGY CO., LTD.

2450MHz

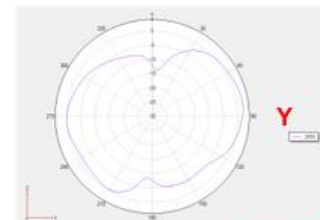
XZ-E1-plane
Z



XY-H-plane
X



YZ-E2-plane
Z



PSA

17

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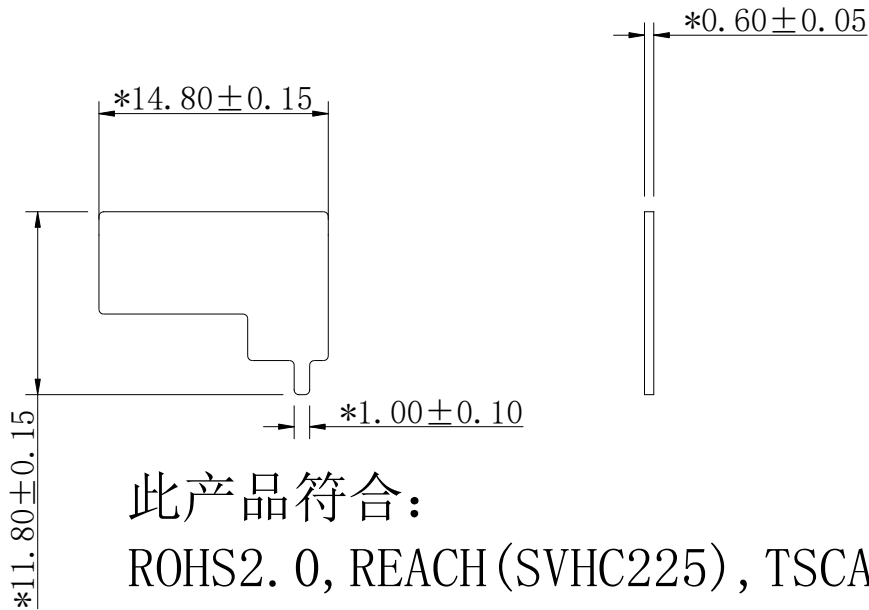
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5. Mechanical Specification:

5-1. Mechanical Configuration (Unit: mm)

The appearance of the antenna is according to drawing Figure 5-1-1



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