

WA-F-LA-03-265 Specification

1. Explanation of part number :

WA - E - LA - 03 - 265
(1) (2) (3) (4) (5)

(1) Product Type : Wireless Antenna

(2) Material: FPCB+CABLE

(3) Frequency : 2.4GHz-2.5GHz

(4) Coaxial Cable Type : 03

(5) Suffix :265

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 哈曼(迪芬尼) MKII BT model, and all characteristics were measured under the model's handset testing.

4-1. Frequency Band:

Frequency Band	MHz
BT	2400-2500

UNLESS OTHER SPECIFIED TOLERANCES ON :

X = ± X.X = ± X.XX = ±

ANGLES = ± HOLEDIA = ±

SCALE : UNIT : mm

DRAWN BY : 靳静 CHECKED BY : 赵付辉

DESIGNED BY: 牛永林 APPROVED BY : 赵付辉

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DOCUMENT
NO.

PAGE REV.
P1

4-2. Impedance

50 ohm nominal

4-3. Matching circuit

None

4-4. VSWR

4-4.1 Measuring Method

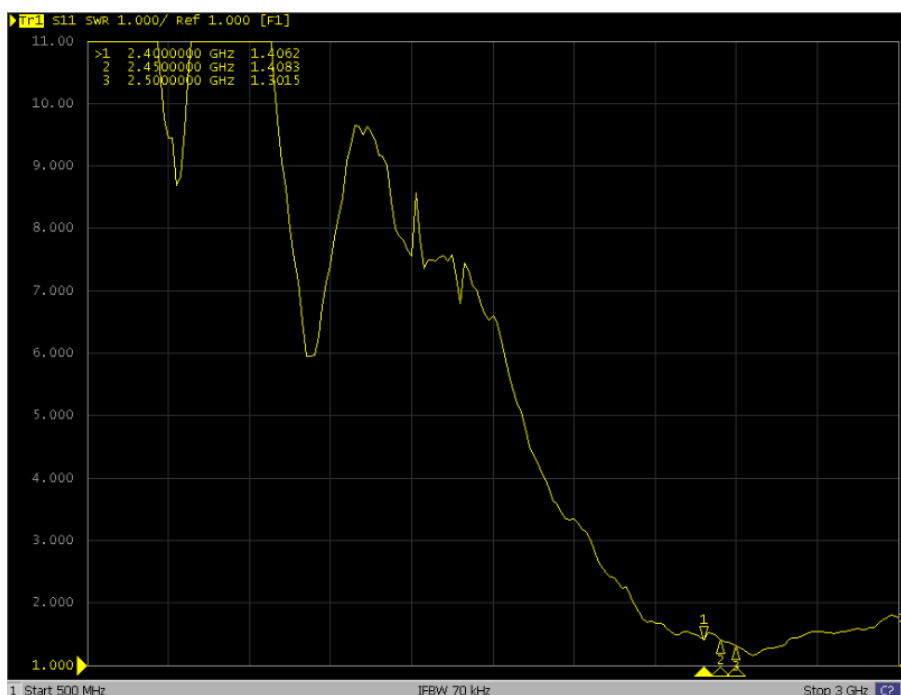
1.A 50Ω coaxial cable is connected to the antenna. Then this cable is connected

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	≤ 3	≤ 3	≤ 3
VSWR	1.40	1.40	1.30



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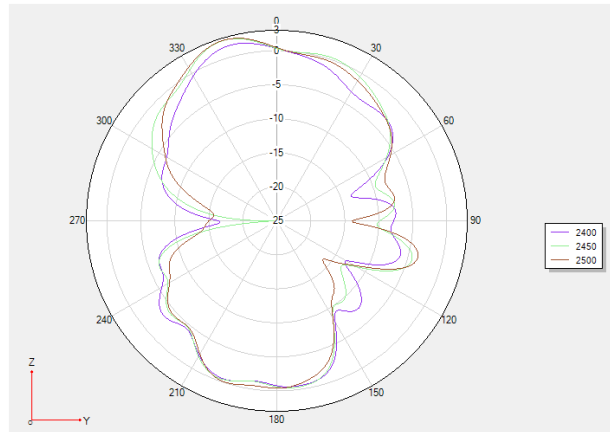
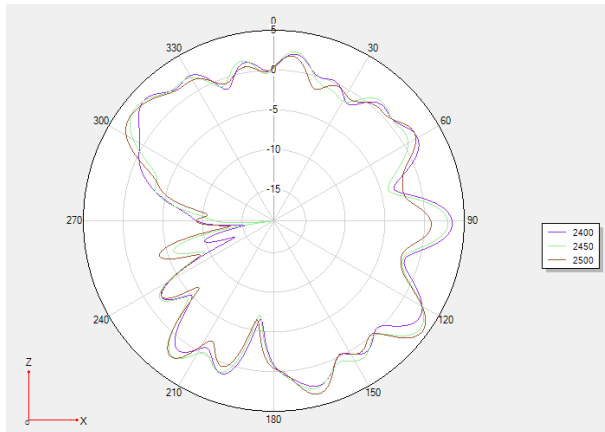
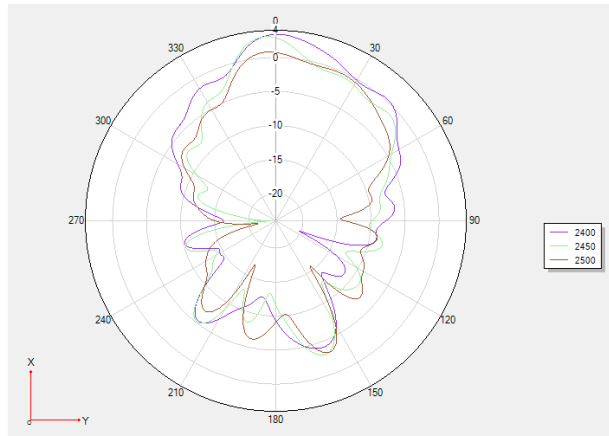
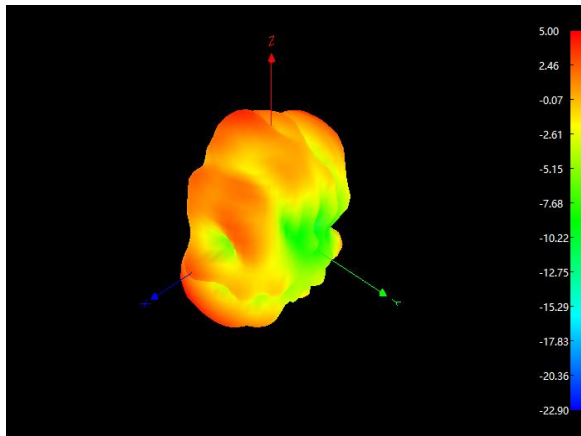


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PAGE REV.
P1



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

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SCALE :

UNIT : mm

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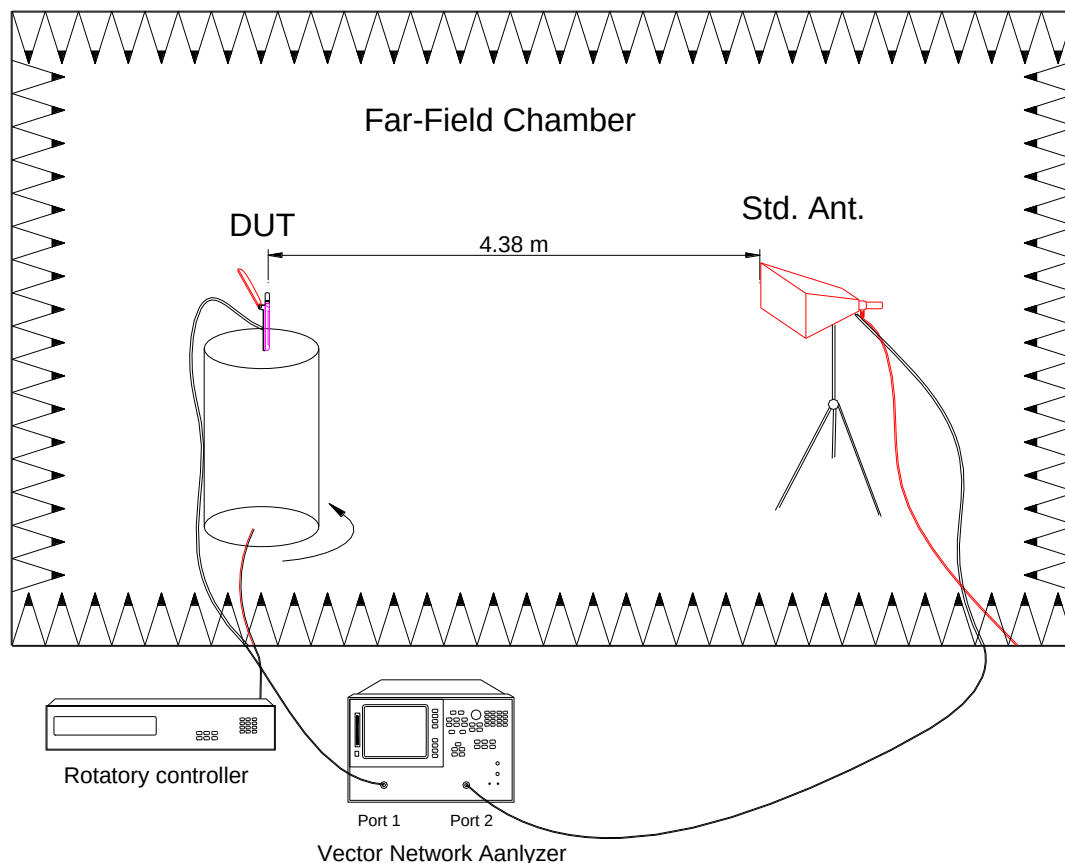


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PAGE REV.
P1



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)

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 (%)	62.81	65.16	63.02
Gain (dBi)	4.51	5.0	4.44

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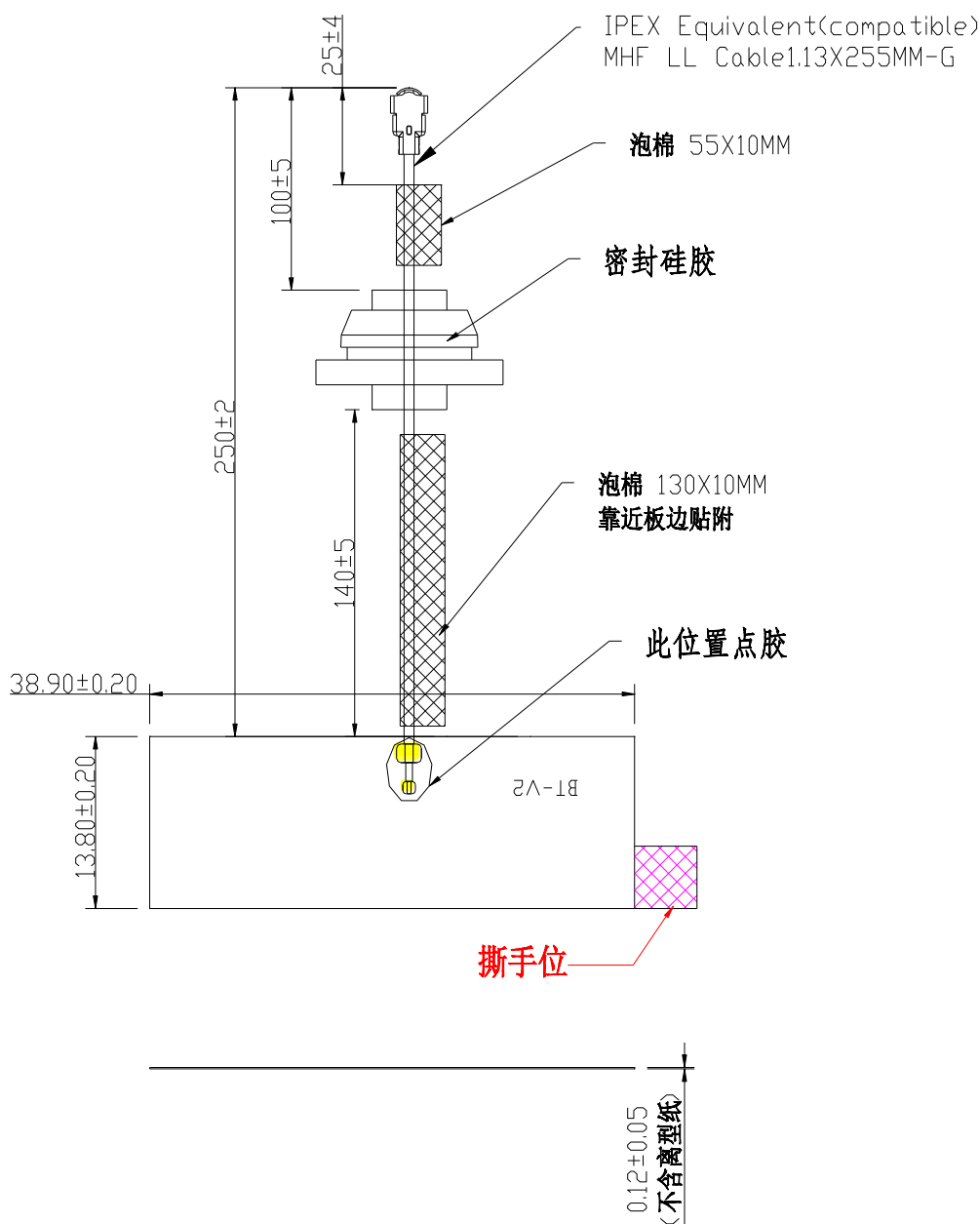
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PAGE REV.
P1

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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P1