

WA-M-LA-03-045 Specification

1. Explanation of part number:

WA - M - LA - 03 - 045
(1) (2) (3) (4) (5)

(1) Product Type: Wire Antenna

(2) Material: Metal + Cable

(3) Frequency:2400-2500MHz

(4) Coaxial Cable Type:03

(5) Gain (Peak) :2.85dBi

(6) Suffix :045

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 迪芬尼 SVS PB-17 model, and all characteristics were measured under the model's handset testing.

4-1. Frequency Band:

Frequency Band	MHz
BT	2400-2500MHz

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=±
ANGLES=± HOLEDIA=±



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SCALE : UNIT : mm

DRAWN BY : 骆拓夫 CHECKED BY : 曹云中

DESIGNED BY : 董明辰 APPROVED BY : 赵付辉

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4-2. Impedance

50 ohm nominal

4-3. Matching circuit

None

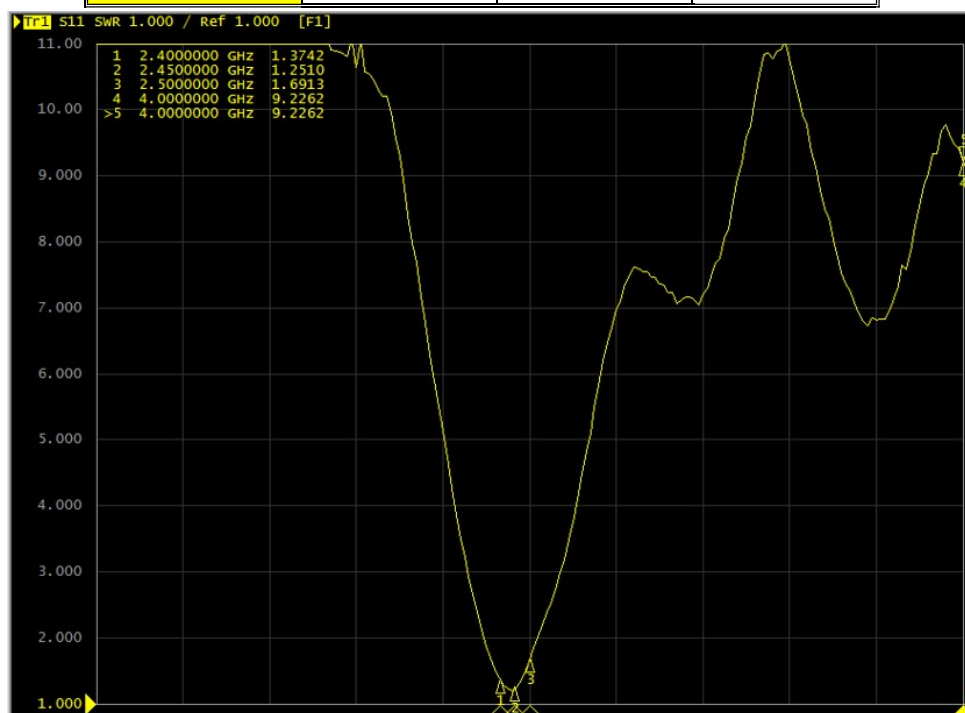
4-4. VSWR

4-4.1 Measuring Method

- 1.A 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

4-4.2 Measurement frequency points and VSWR value

Frequency (Unit MHz)	2400	2450	2500
VSWR	1.37	1.25	1.69



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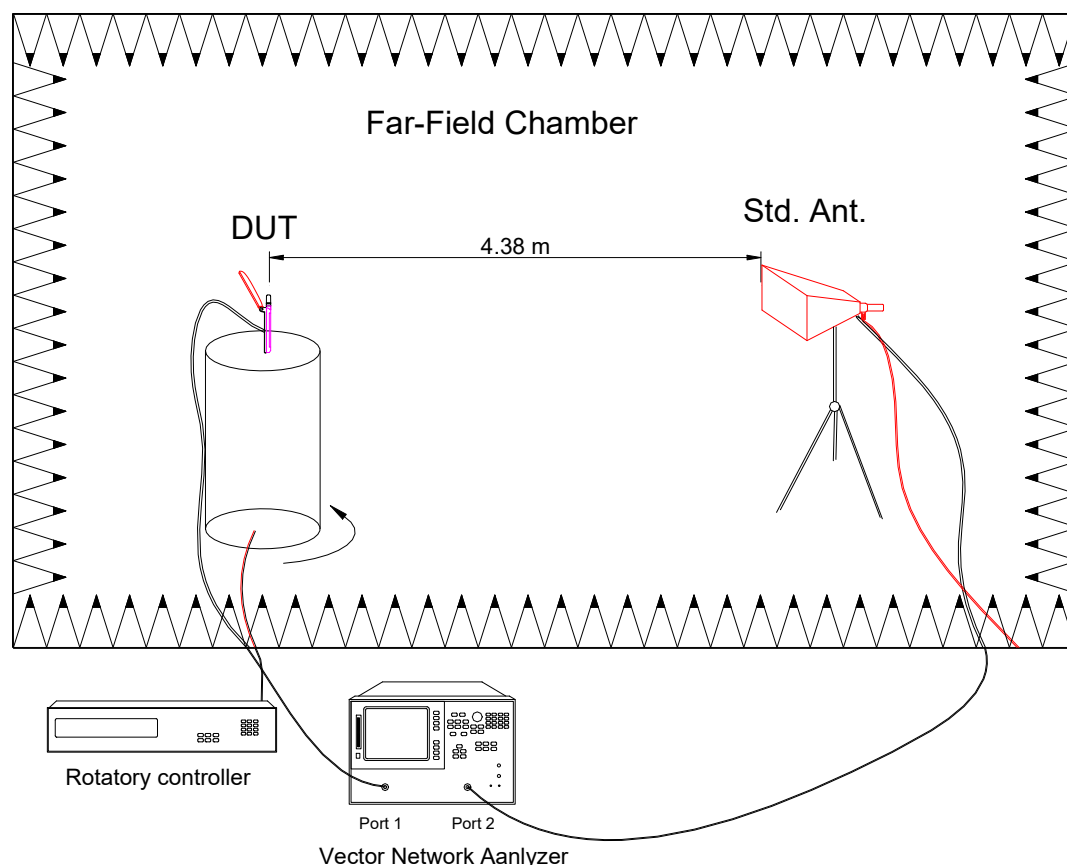
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4-5. Efficiency and Gain

4-5.1 Measure method

1. Using a low loss coaxial cable to link a standard handset
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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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.

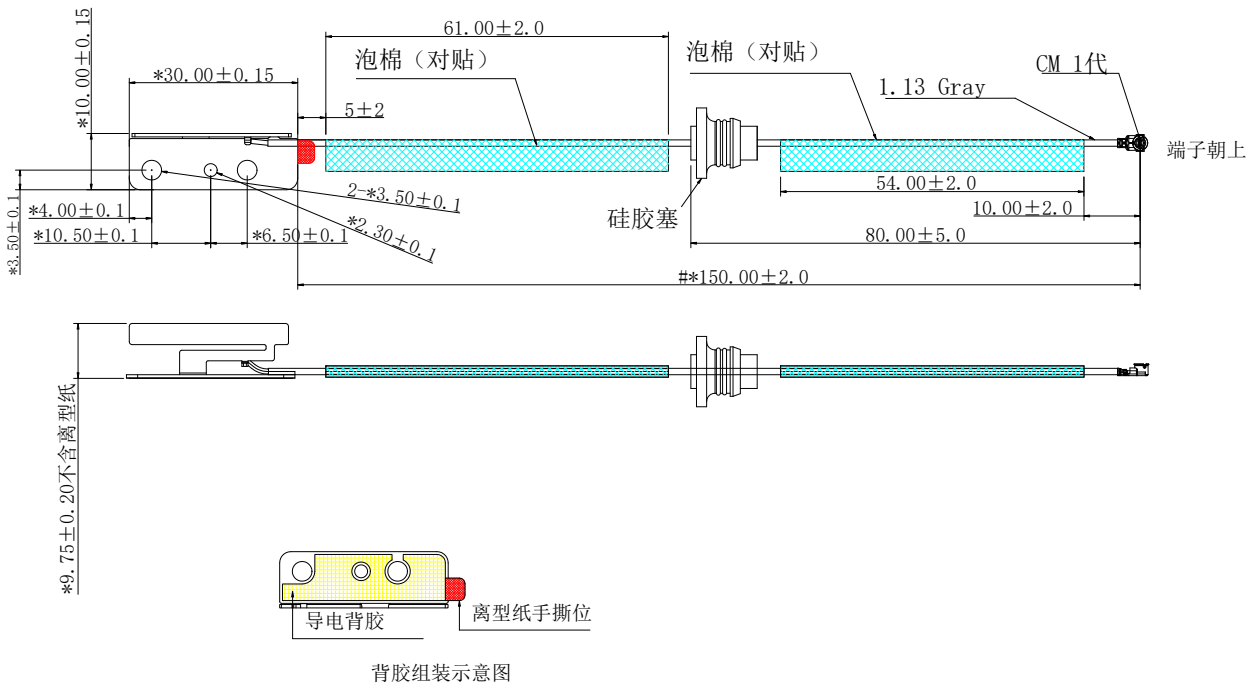
➤ BT

Frequency (MHz)	2400	2450	2470	2500
Efficiency (%)	54.98	61.02	59.12	52.94
Peak Gain (dBi)	2.44	2.67	2.85	2.35


5. Mechanical Specification:

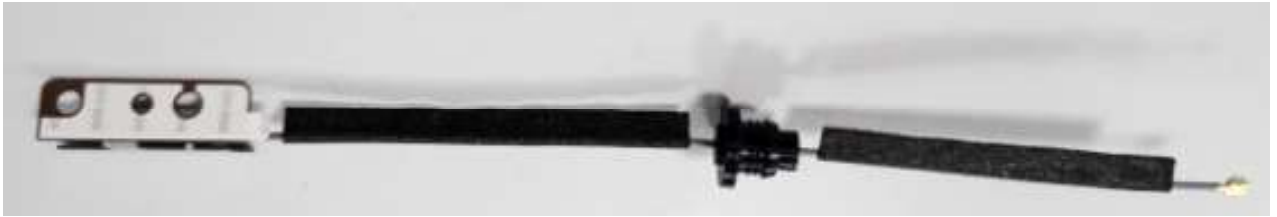
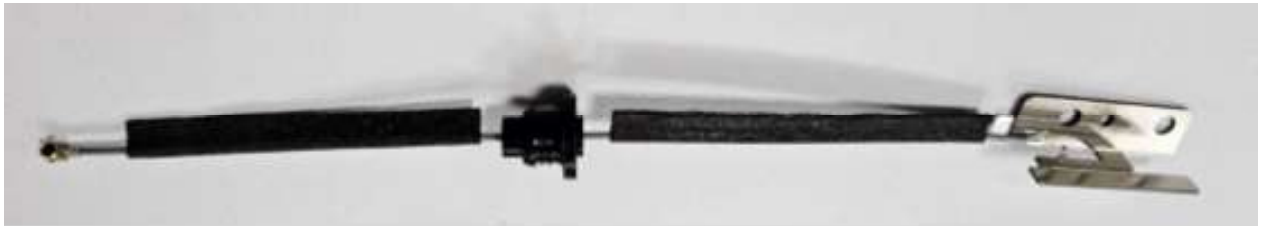
5-1. Mechanical Configuration (Unit: mm)

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



6. Physical illustration

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