WA-P-LA-03-256 Specification **History List**

版本 REV.	修订者 EDITOR	修订页次 PAGE	修订内容 ITEMS OF CHANGE	申请日期 DATE	生效日期 VALID DATE	ECN 编号 ECN NO.
A0	李美娟	ALL	First release	2017/5/11	2017/5/16	N/A

WA-P-LA-03-256 Specification

1. Explanation of part number：

WA	_	P	_	LA	_	03	_	256
(1)		(2)		(3)		(4)		(5)

(1) Product Type：Wireless Antenna

(2) Material: PCB

(3) Frequency：WIFI (2.4GHz-2.5GHZ)

(4) Coaxial Cable Type：03

(5) Suffix：256

2. Electrical Specification：

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

2-1. Frequency Band:

Frequency Band	GHz
WIFI	2.4-2.5G

2-2. Impedance

50 ohm nominal

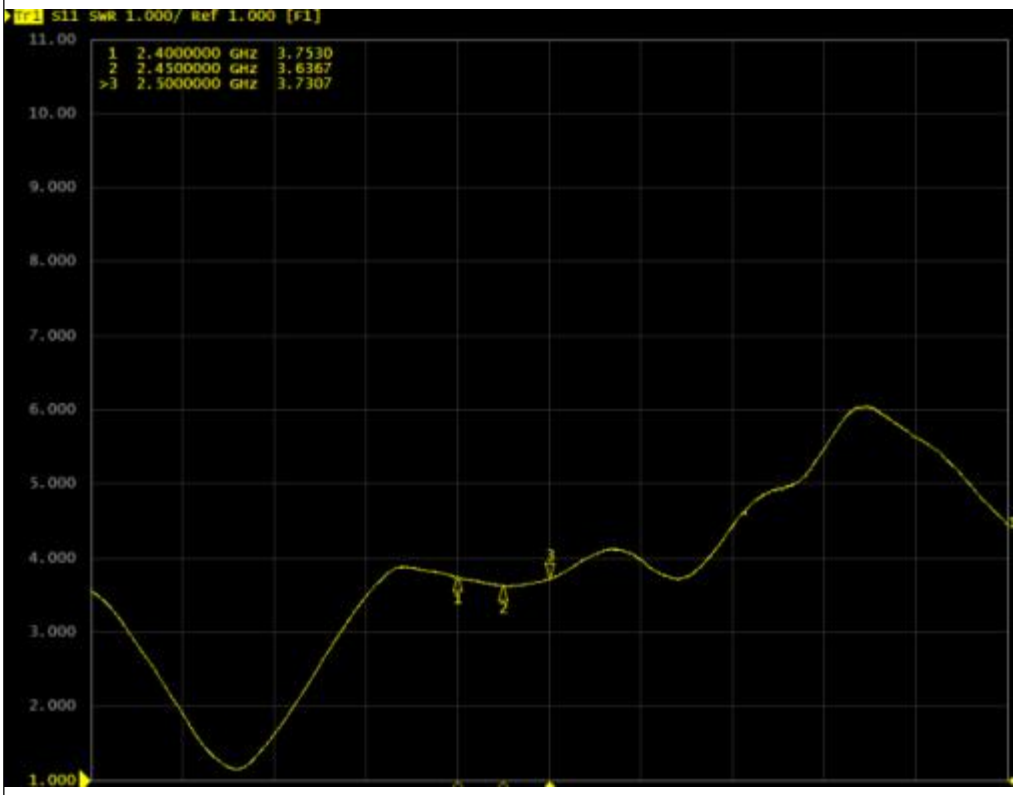
2-3. VSWR

2-3-1.Measurement frequency points and VSWR value

Frequency（MHz）	2400	2450	2500
VSWR	3.75	3.64	3.73

2-3-2. VSWR

Frequency Band(MHz)	2400	2450	2500
2-3-3. Typical Value:	⩽5.0	⩽5.0	⩽5.0

2-3-4 Measuring Method	1. A 50Ω coaxial cable is connected to the PCB. Then this cable is connected to a network analyzer to measure the VSWR. 2. Keeping this jig away from metal at least 20 cm
2-3-5 Picture	

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2-4. Efficiency and Gain

■ Measuring Instruments: Microwave Anechoic Chamber, Network Analyzer, Standard Antenna.

■ Microwave Anechoic Chamber Description:

This is the microwave anechoic chamber set up by our company in Shenzhen. The microwave anechoic chamber is part of a far-field measurement system. The size of the chamber is 2.6 meters x 1.6 meters x 1.6 meters, and the size of the quiet zone is 15 centimeters x 15 centimeters.

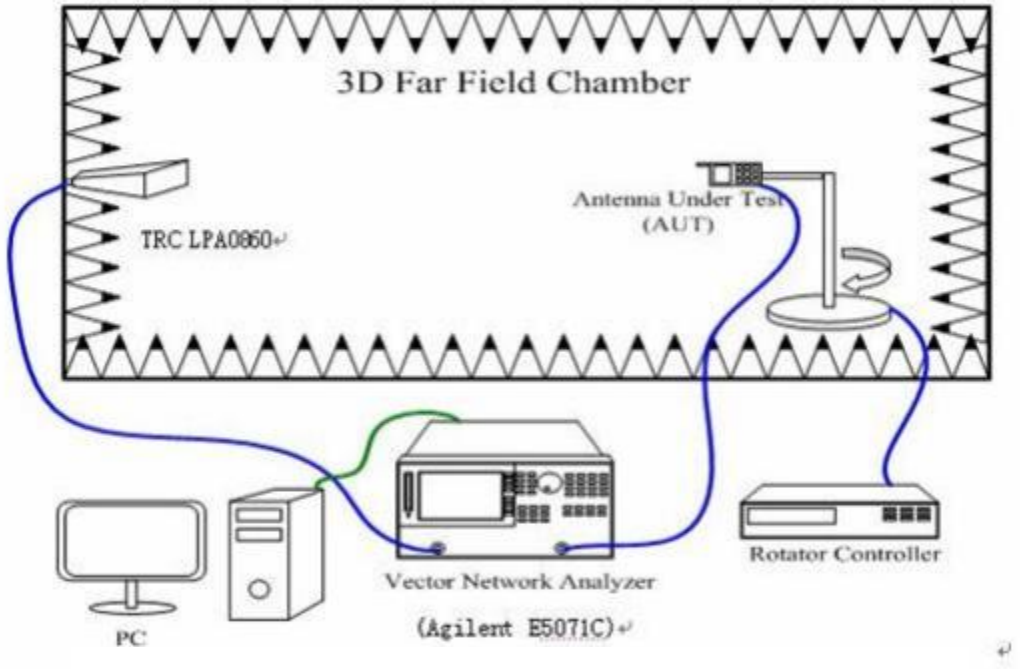
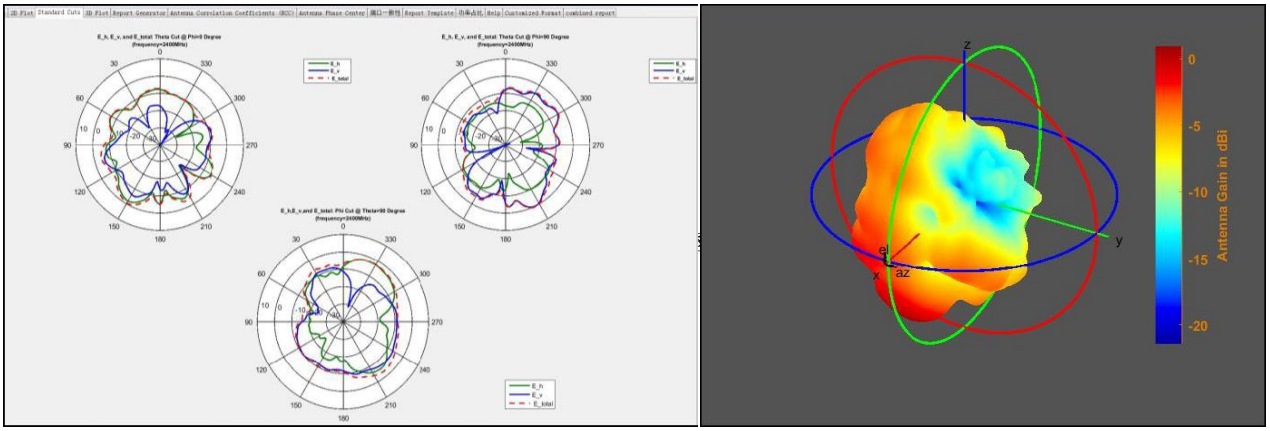


Figure 1: The internal equipment of the microwave anechoic chamber

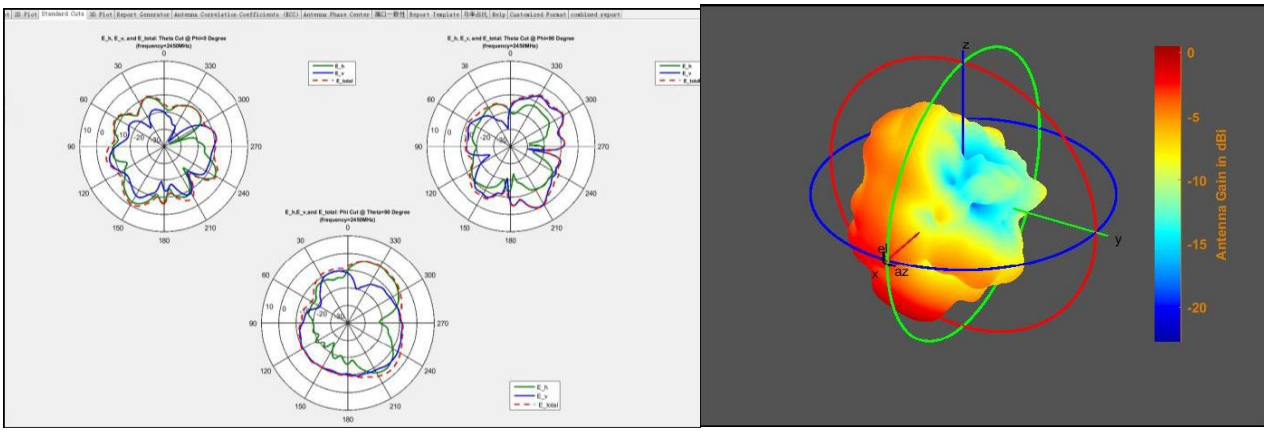
2-4-1 Efficiency and Gain

Frequency (MHz)	Gain(dB)	Efficiency(dB)	Efficiency(%)
2400	0.9213	-6.1689	24.1605
2410	0.5247	-6.6206	21.7739
2420	0.3163	-6.862	20.597
2430	-0.0362	-7.2678	18.7594
2440	0.3896	-7.0151	19.8836
2450	0.4664	-6.8105	20.8423
2460	-0.336	-7.6267	17.2714
2470	-0.674	-7.9029	16.2072
2480	-0.4297	-7.6696	17.1017
2490	-0.0881	-7.4625	17.9369
2500	-0.4043	-7.2714	17.8887

2-4-2 Radiation Patterns



2400Mhz



2450Mhz

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DESIGNED BY：胡志清	APPROVED BY：唐龙		
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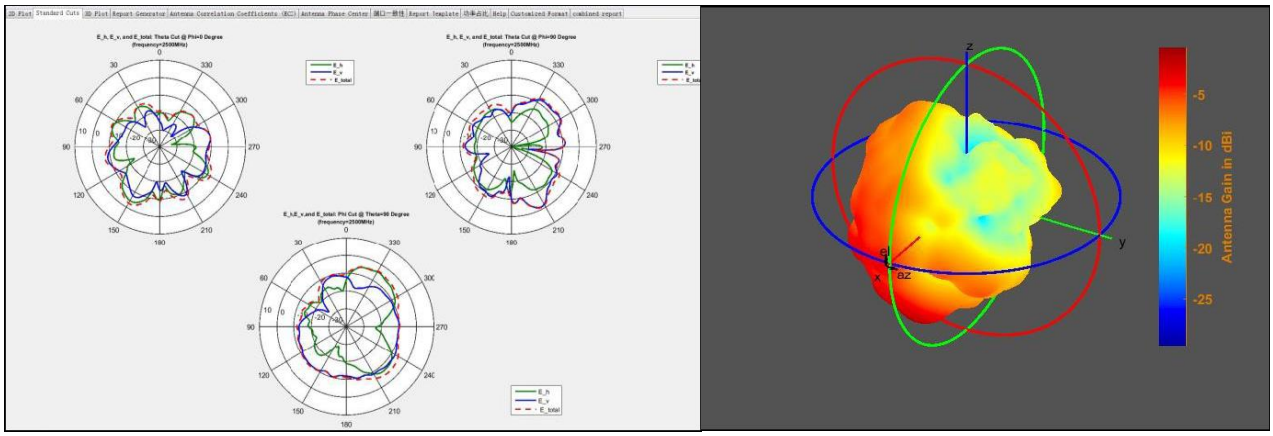
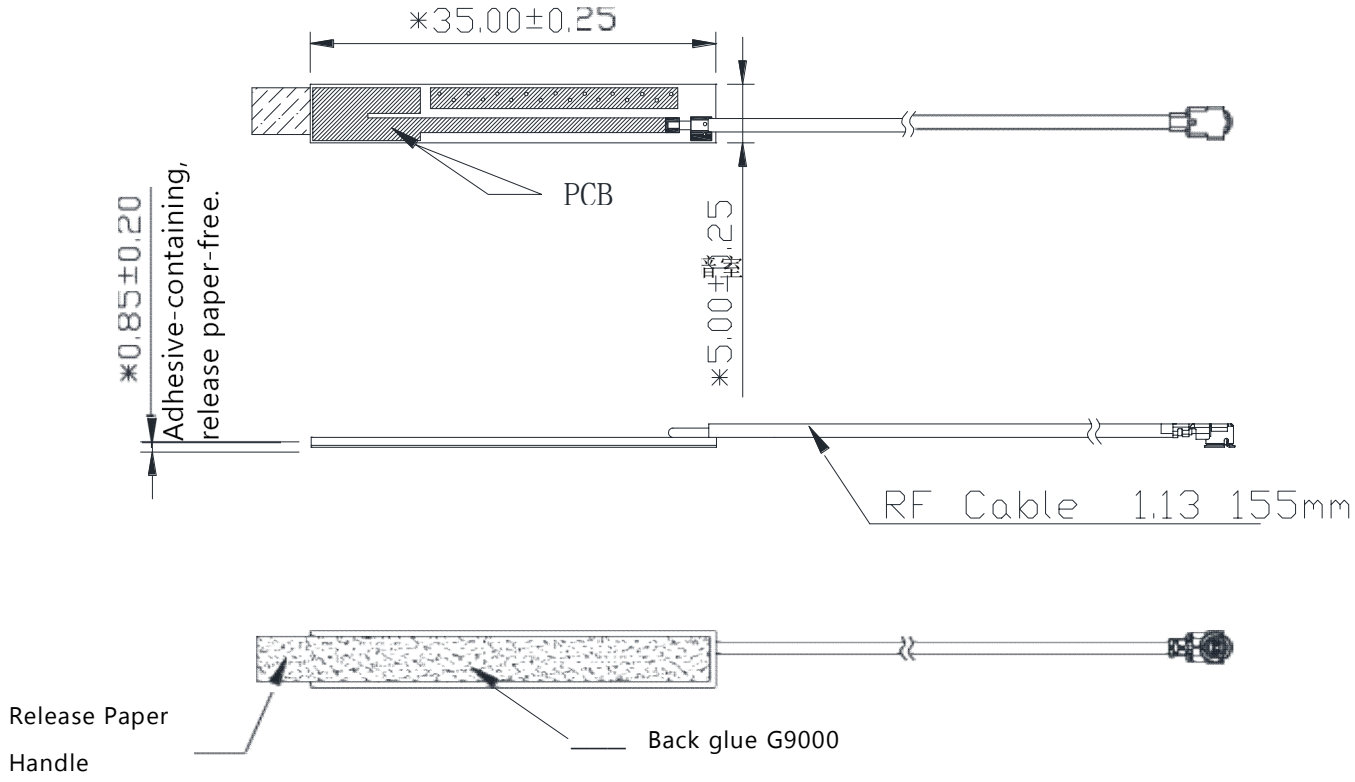


2500Mhz

3. Mechanical Specification:

3-1. Mechanical Configuration (Unit: mm) （* dimension is important dimension)
The appearance of the antenna is according to drawing Figure **3-1-1**



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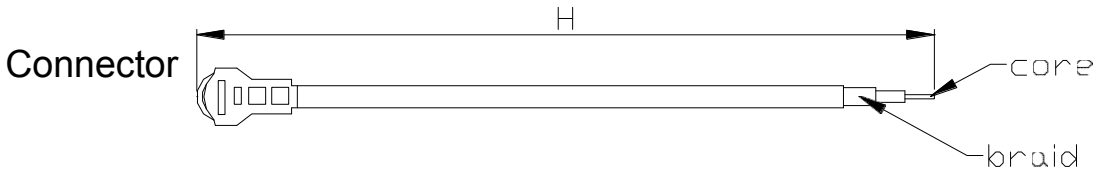
3-2. Cable Length:



Connector：I-PEX MHF；Cable：RF Cable 1.13（Gray）
Wire Length (Including Connectors) H：155±3mm

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