

WA-P-LB-02-1129 Specification

Manufacturer's Address: No.5, Chunqiu Road, Panyang Industrial Park Huangdai Town, Xiangcheng Zone, Suzhou

1. Explanation of part number :

WA _ P _ LB _ 02 _ 1129
(1) (2) (3) (4) (5)

(1) Product Type : Wireless Antenna

(2) Material: PCB+Cable

(3) Frequency : 2400-2500MHz&5150-5850MHz

(4) Coaxial Cable Type : 02

(5) Suffix :1129

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 立讯香港 Player V4 WIFI model, and all characteristics were measured under the model's handset testing.

4-1. Frequency Band:

Frequency Band	MHz
WIFI	2400-2500MHz, 5150-5850MHz

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=±

ANGLES=± HOLEDIA=±

SCALE : UNIT : mm

DRAWN BY : 骆拓夫 CHECKED BY : 余晓晖

DESIGNED BY : 陈光芒 APPROVED BY : 赵付辉

TITLE : WA-P-LB-02-1129 Specification



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4-2. Impedance

50 ohm nominal

4-3. Matching circuit

None

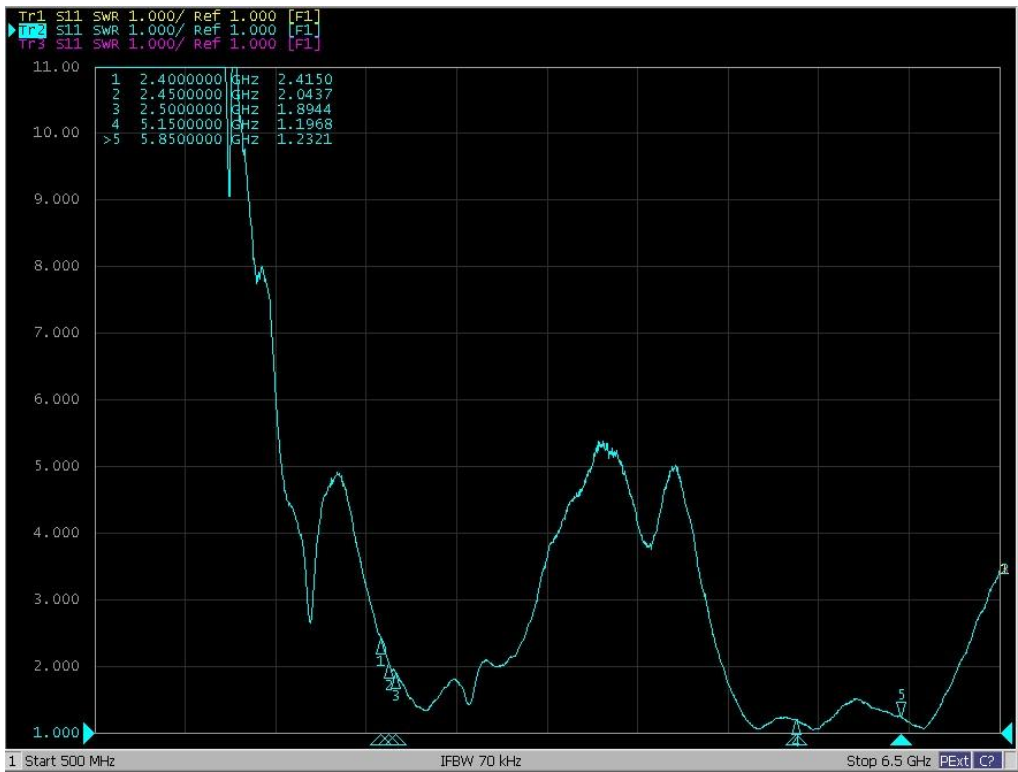
4-4. VSWR

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	5150	5850
VSWR	2.42	2.04	1.89	1.20	1.23



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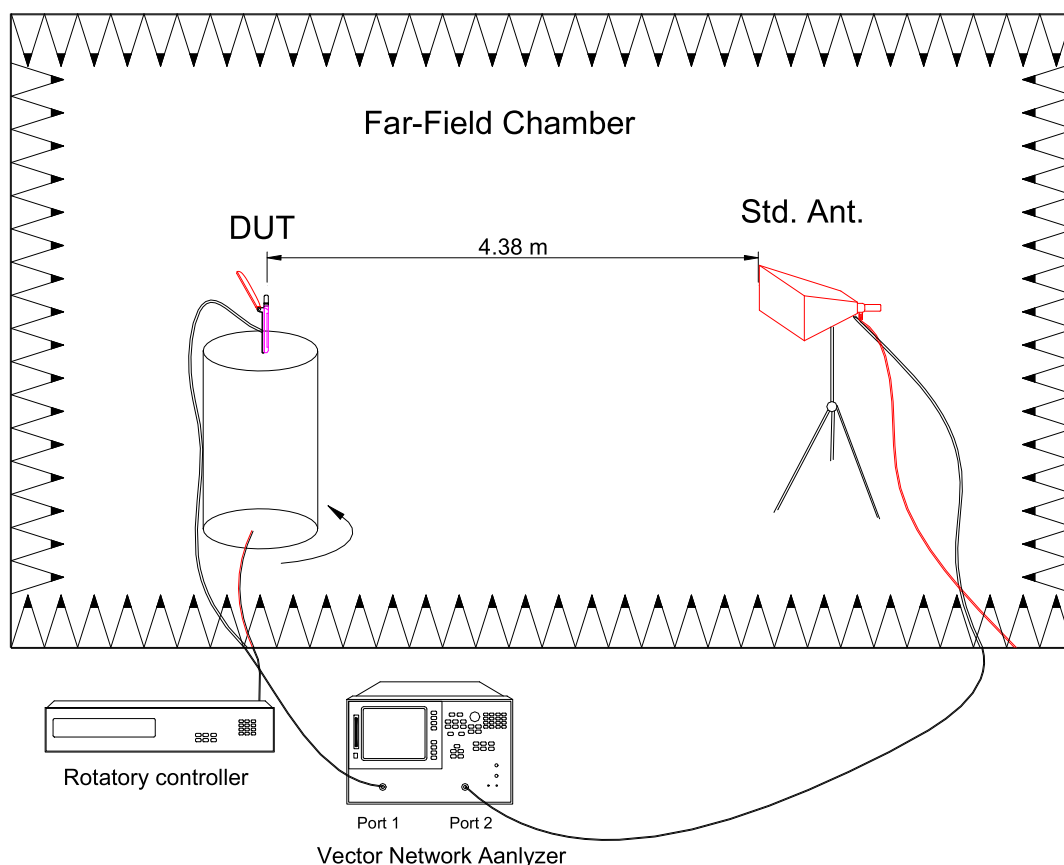
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4-5. Efficiency and Gain

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/Radiation Pattern of 3D/2D

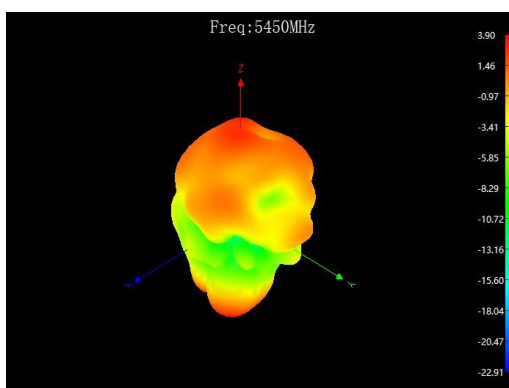
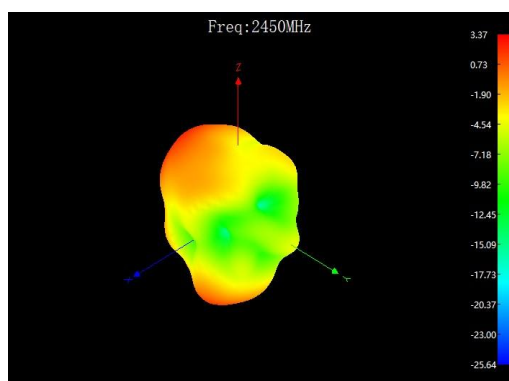
Antenna gain is marked (dBi) and is based on STANDARD HORN antenna. The data shows Peak Gain and Average Gain.

Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Peak Gain (dBi)
2400	-3.31	46.67	3.04
2410	-3.35	46.24	2.54
2420	-3.24	47.42	3.28
2430	-3.01	50	3.1
2440	-2.91	51.17	3.25
2450	-2.49	56.36	3.37
2460	-2.84	52	3.48
2470	-2.3	58.88	3.88
2480	-2.71	53.58	3.61
2490	-2.14	61.09	4.33
2500	-2.44	57.02	3.9

Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Peak Gain (dBi)
5150	-1.36	73.11	5.29
5200	-1.46	71.45	5.78
5250	-1.35	73.28	4.88
5300	-1.5	70.79	4.32
5350	-1.39	72.61	3.78
5400	-1.3	74.13	4.25
5450	-1.47	71.29	3.9
5500	-1.55	69.98	3.15
5550	-1.76	66.68	3.21
5600	-1.9	64.57	3.55
5650	-1.74	66.99	3.24
5700	-1.94	63.97	2.84
5750	-1.59	69.34	3.76
5800	-1.77	66.53	4.55
5850	-1.7	67.61	4.92

Radiation Pattern of 3D/2D

3D



2D

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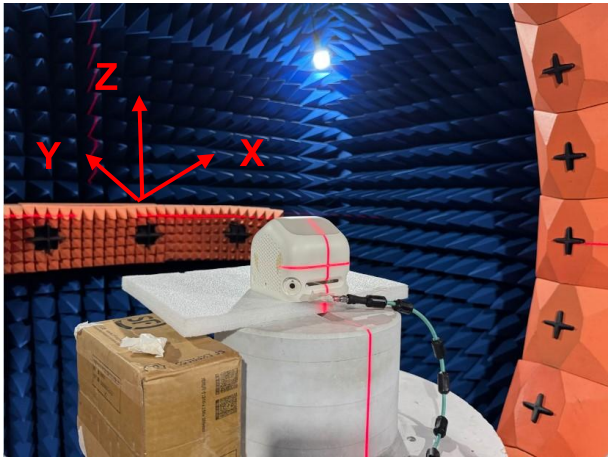
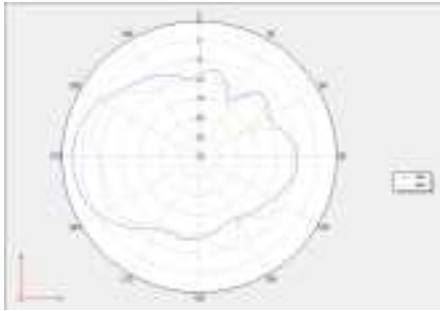
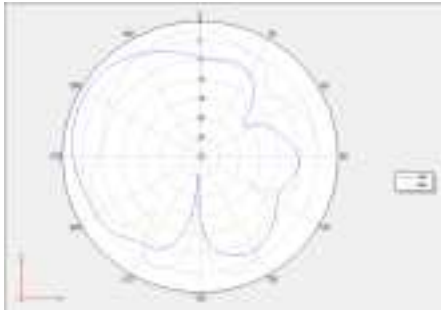


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