

品名: WAG-F-G0-00-046 Specification

History List

版本 REV.	修訂者 EDITOR	修訂頁次 PAGE	修訂內容 ITEMS OF CHANGE	申請日期 DATE	生效日期 VALID DATE	ECN 編號 ECN NO.
AO	Eason	ALL	正式发行	2024/06/07	2024/06/07	N/A

WAG-F-G0-00-046 Specification

1. Explanation of part number :

 $\frac{\text{WAG}}{\text{(1)}} - \frac{\text{F}}{\text{(2)}} - \frac{\text{G0}}{\text{(3)}} - \frac{\text{00}}{\text{(4)}} - \frac{\text{046}}{\text{(5)}}$

(1) Product Type: Wireless Antenna

(2) Material: FPC

(3) Frequency: 1575.42MHz

(4) Coaxial Cable Type: 00

(5) Suffix: 046

2. Storage Condition:

Temperature -40 to +85°C Humidity 20 to 65 %RH

Recommended storage condition:

Store in room condition as listed below: Temperature -20°C~+45°C, Humidity 80% Max.

3. Operating Condition:

Temperature -40 to +85°C Humidity 10 to 85 %RH

4. Electrical Specification:

Those specifications were specially defined for WLAN model, and all characteristics were measured in the customer's machine.

4-1. Frequency Band:

Frequency Band	MHz
GPS/WIFI/BT	1575.42MHz/2300Mhz~2400Mhz

4-2. Impedance

50 ohm nominal

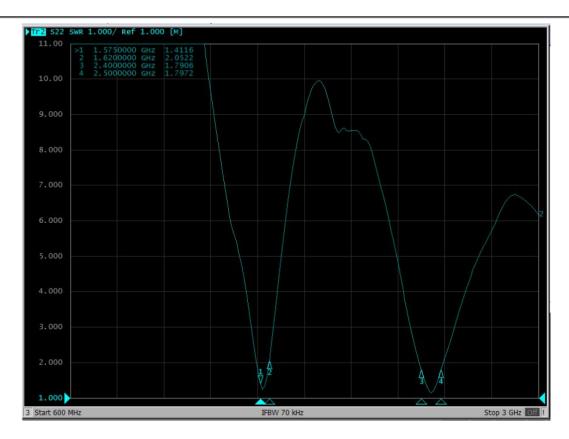
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4-3 VSWR:

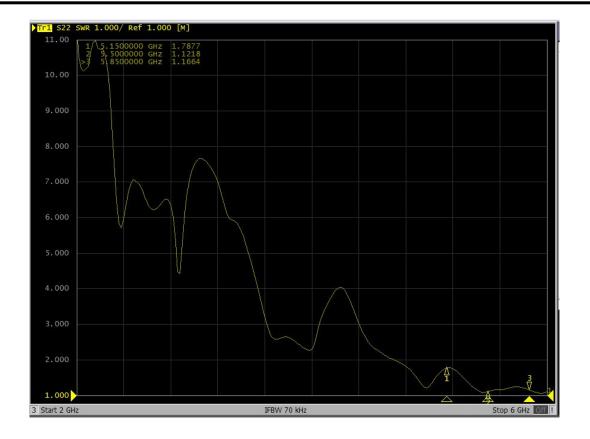
Frequency Band	1575.42	2400	2500		
4-3-1. Typical Value:	≦2.5	<u>≤</u> 4	<u>≤</u> 4		
4-3-2Measuring Method	network analy	cable is connected zer to measure the ig away from metal	VSWR.	nna. Then this cable	is connected to a

4-3-3Picture



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4-4. Measure and Chamber

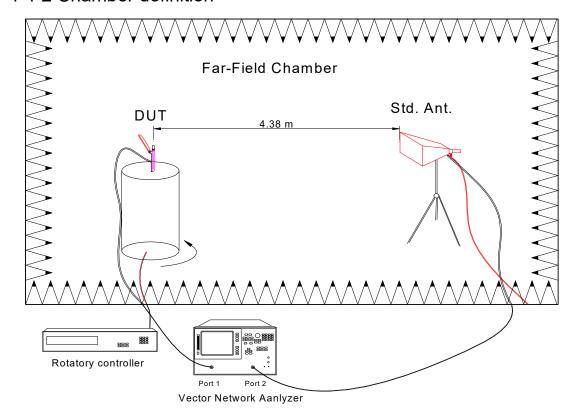
4-4-1 Measure method

- 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

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4-4-2 Chamber definition



- 1. An anechoic chamber (8mx4mx3.5m) which satisfied far-field condition was applied to avoid multi-path effect
- 2. The quite 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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4-4-3 Efficiency

frequency	efficiency	efficiency	gain
1500	23%	-6.48	-2.07
1510	23%	-6.46	-2.02
1520	23%	-6.44	-1.99
1530	24%	-6.27	-1.99
1540	25%	-5.99	-1.89
1550	27%	-5.72	-1.72
1560	27%	-5.64	-1.77
1570	28%	-5.54	-1.48
1580	28%	-5.51	-1.9
1590	29%	-5.45	-1.83
1600	29%	-5.44	-1.81
1610	28%	-5.47	-1.82
1620	28%	-5.47	-2.08
1630	28%	-5.48	-2.39
1640	27%	-5.72	-2.81

frequency	efficiency	efficiency	gain
2400	25%	-6.02	-2.13
2410	26%	-5.85	-1.83
2420	28%	-5.53	-0.82
2430	31%	-5.16	0.01
2440	30%	-5.17	-0.16
2450	30%	-5.23	-0.2
2460	29%	-5.32	-0.21
2470	29%	-5.35	-0.32
2480	29%	-5.36	-0.46
2490	29%	-5.38	-0.55
2500	28%	-5.48	-0.92

5150	25%	-5.94	-2.03
5200	26%	-5.82	-1.53
5250	27%	-5.65	-1.06
5300	28%	-5.48	-0.46
5350	30%	-5.17	0.02
5400	30%	-5.19	-0.11

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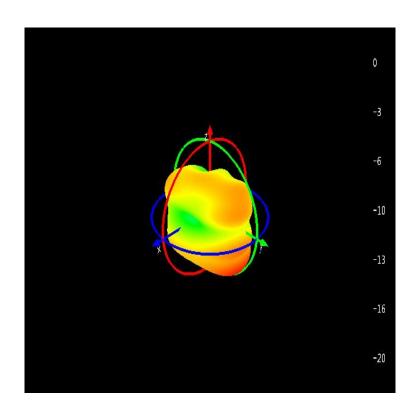
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5450	26%	-5.78	-1.46
5500	26%	-5.93	-1.37
5550	25%	-5.95	-1.82
5600	25%	-5.99	-1.76
5650	24%	-6.13	-2.29
5700	26%	-5.78	-1.43
5750	26%	-5.80	-1.52
5800	25%	-5.95	-1.63
5850	25%	-6.11	-1.42

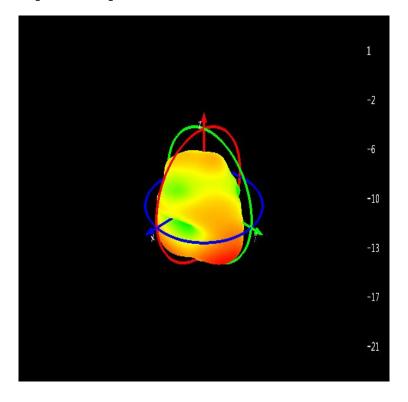
4-5 3D Radiation Pattern GPS [1570MHz]



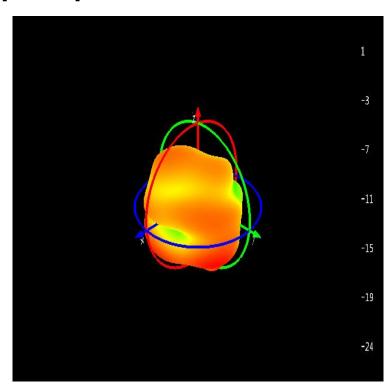
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BT/WiFi 2.4GHz C0 [2400MHz]



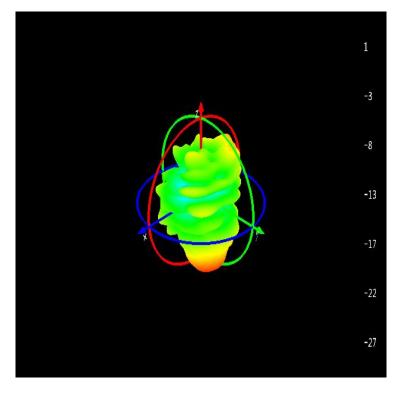
BT/WiFi 2.4GHz C0 [2500MHz]



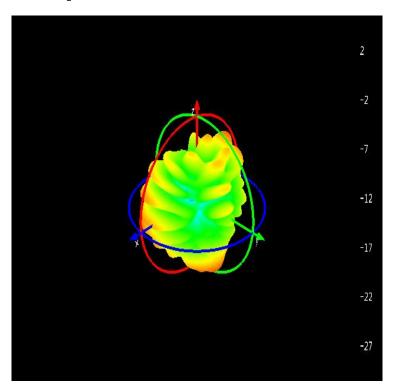
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WiFi 5.8GHz C0 [5150MHz]



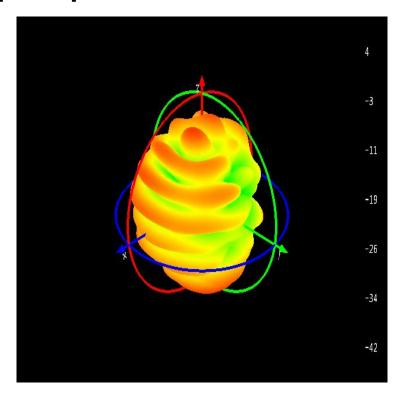
WiFi 5.8GHz C0 [5500MHz]



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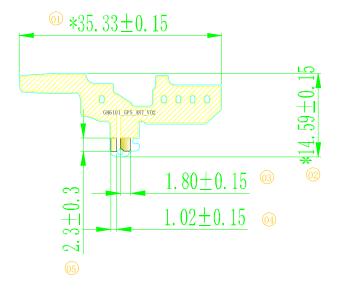
WiFi 5.8GHz C0 [5850MHz]



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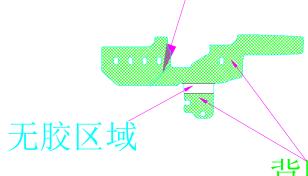
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5. Mechanical Specification:



正面 (走线面)





反面(背胶面)背胶区域

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