

KC.IA.00498(venu90)

Antenna Specification

1. Application:

This application shall apply for antenna unit which shall be used such as automotive, conventional communications, smart home, etc..

2. Electrical Specification:

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

2-1. Frequency Band:

Frequency Band	MHz
WiFi	2400~2500/5150~5850MHz

2-2. Impedance

50 ohm nominal

2-3. VSWR

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

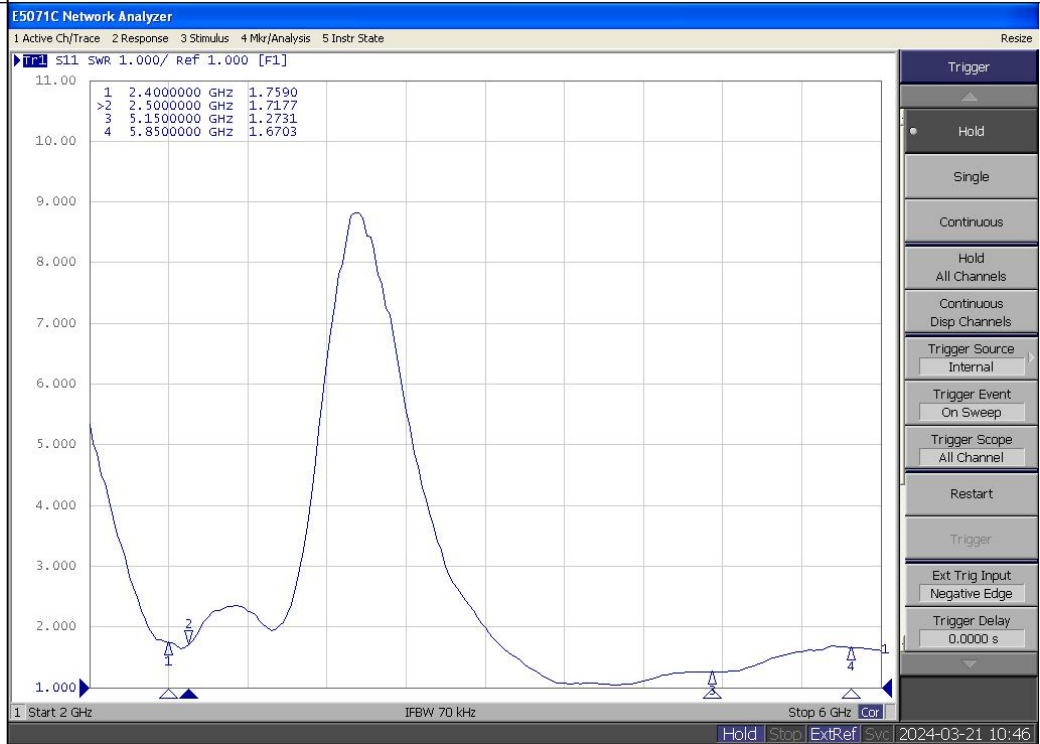
Frequency Band(MHz)	2400	2500	5150	5850
Typical Value: (VSWR)	1.7	1.7	1.2	1.6

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2-3-4 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 20 cm

2-3-5 Picture



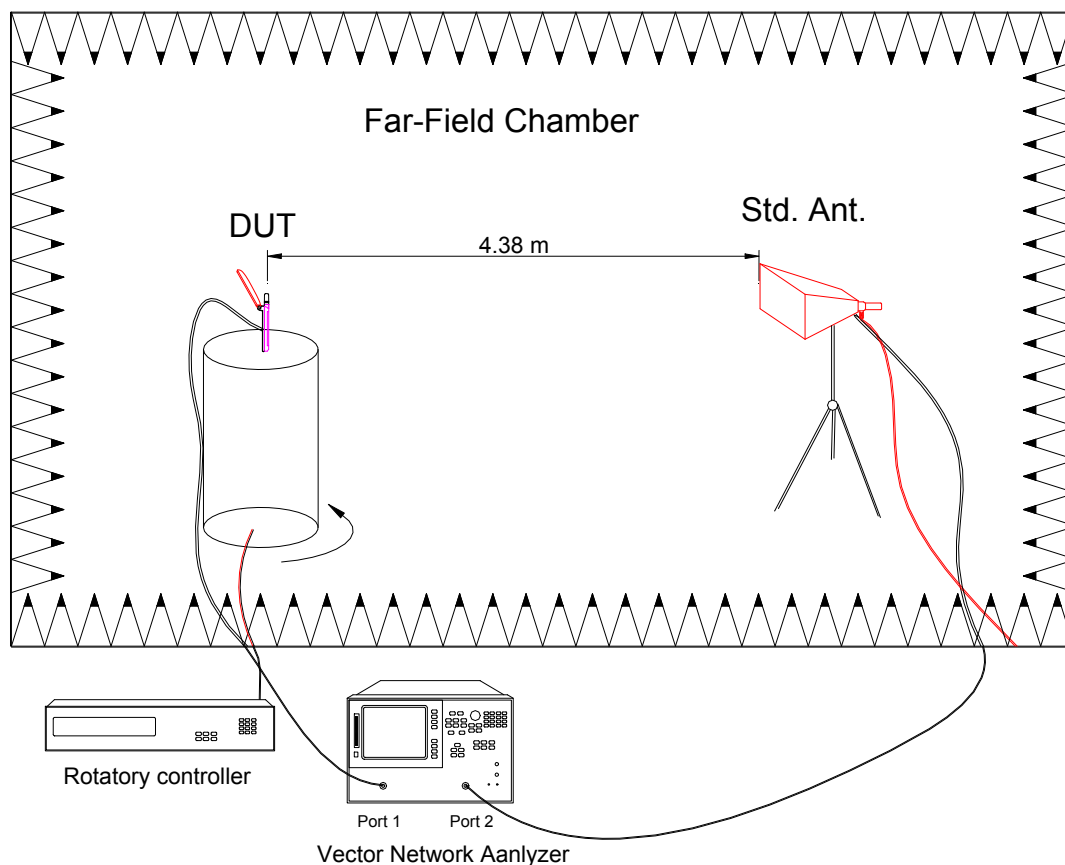
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2-4. Efficiency and Gain

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



1. An anechoic chamber (7mx4mx3m) 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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2-4-1 Efficiency and Gain and 3D Date

Frequency/MHz	Efficiency / %	MaxGain/dBi	Frequency/MHz	Efficiency / %	MaxGain/dBi
2400	54.67	1.62	5390	60.12	3.86
2410	54.36	1.93	5410	58.75	3.89
2420	54.87	1.71	5430	57.94	3.62
2430	55.92	2.05	5450	60.53	3.67
2440	55.39	1.81	5470	61.09	3.72
2450	56.34	1.75	5490	59.7	3.68
2460	57.32	1.9	5510	60.26	3.69
2470	56.67	1.61	5530	59.57	3.72
2480	57.09	2.25	5550	58.48	3.67
2490	58.24	2.05	5570	56.89	3.7
2500	58.48	2.42	5590	57.02	3.63
			5610	57.02	3.58
5150	53.83	2.15	5630	58.21	3.59
5170	54.45	2.39	5650	56.75	3.36
5190	52.84	2.36	5670	56.75	3.25
5210	55.98	2.6	5690	54.83	3.04
5230	56.75	2.7	5710	54.7	3.1
5250	55.85	2.66	5730	51.76	2.93
5270	54.45	2.46	5750	53.21	3.2
5290	56.62	2.6	5770	51.64	3.22
5310	57.54	2.84	5790	52.12	3.39
5330	58.75	3.33	5810	51.42	3.14
5350	58.48	3.51	5830	51.53	3.25
5370	59.57	3.72	5850	52.42	3.18

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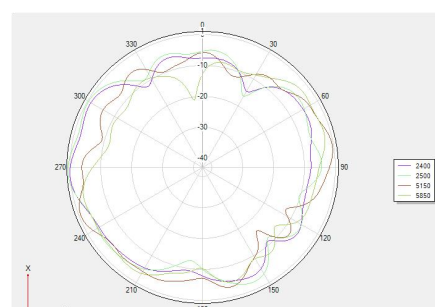
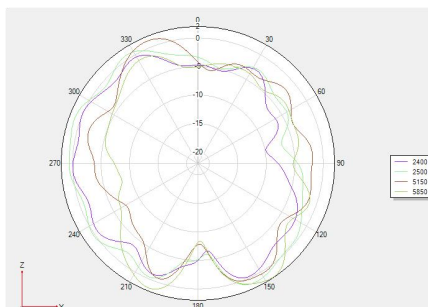
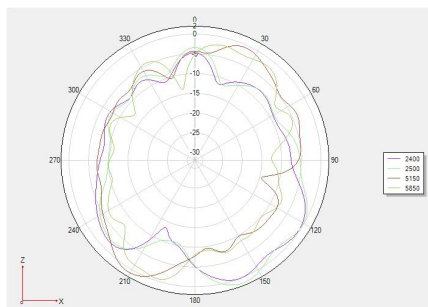
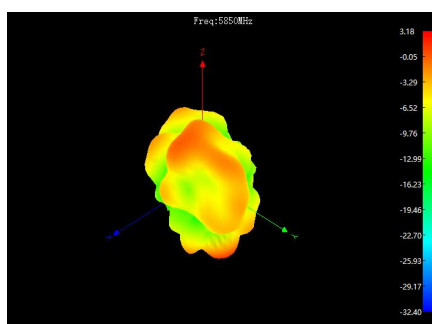
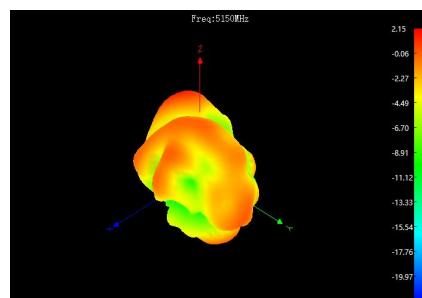
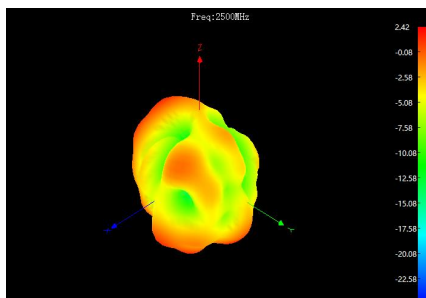
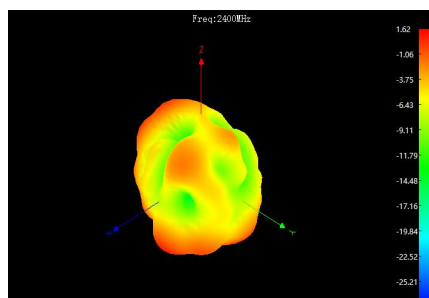
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3. Antenna environm

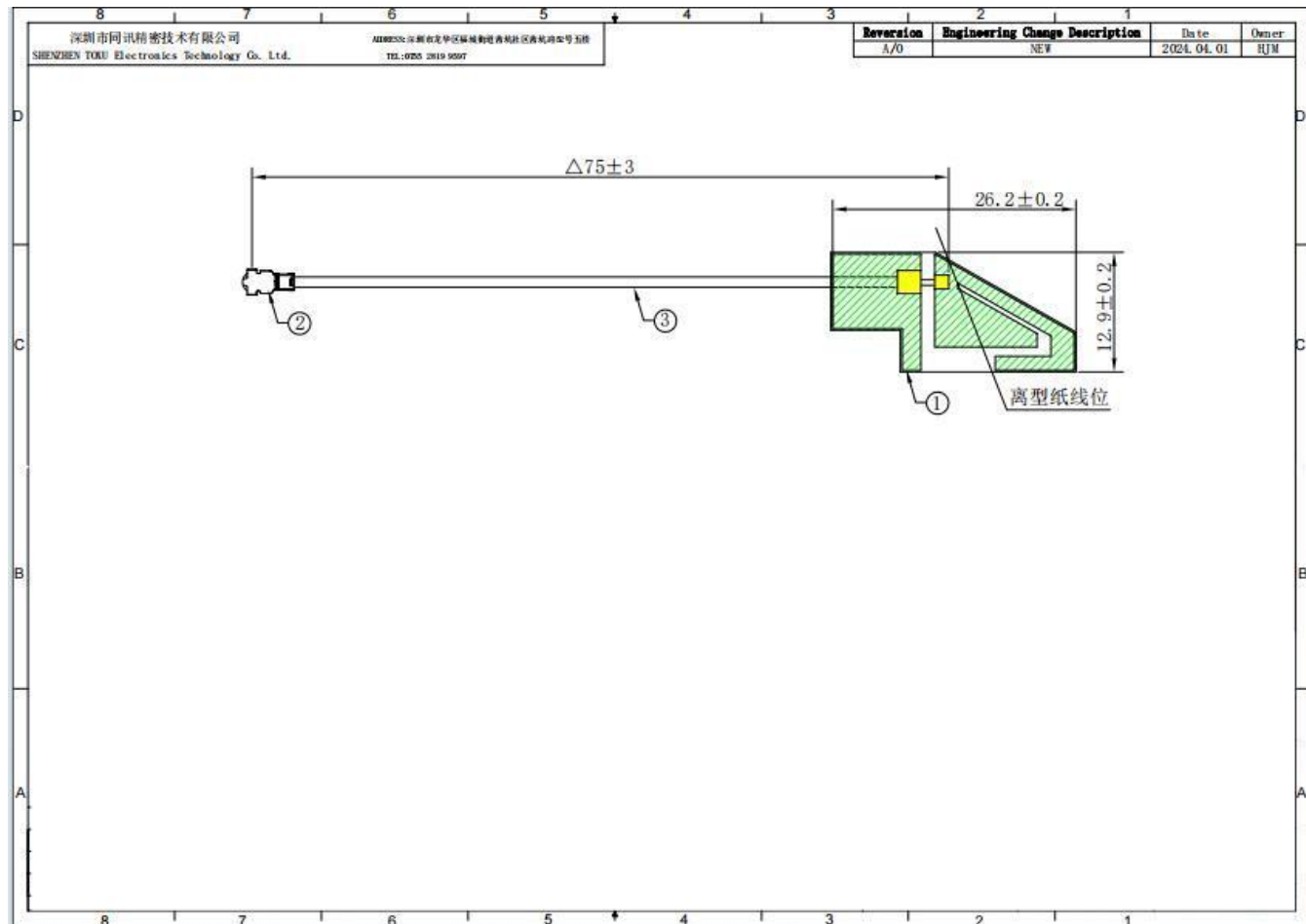


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4. Mechanical Specification:

3-1. Mechanical Configuration (Unit: mm)

The appearance of the antenna is according to drawing



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5 .Packaging specification:

Product number: xxxxx

Product model: xxxxx

一、 Label requirements:

Customer	xxx		
supplier	xxxxx		
Material coding	xx		
Product model	xx		
Number	XXX PCS	Factory date	X X X
Remarks			

二、 Boxing:

Job description:

1. Inner packaging:

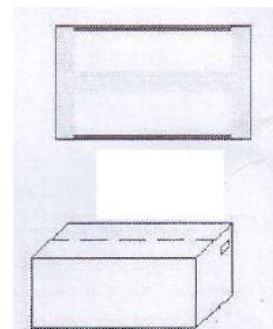
XXpcs A bag

2. External packaging:

Xx PCS ;

3. Matters needing attention:

- Whether to add partition and pearl cotton;
- Label attachments, such as ROHS, etc.;



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