

Measurement of Antenna for i29 Pro Project

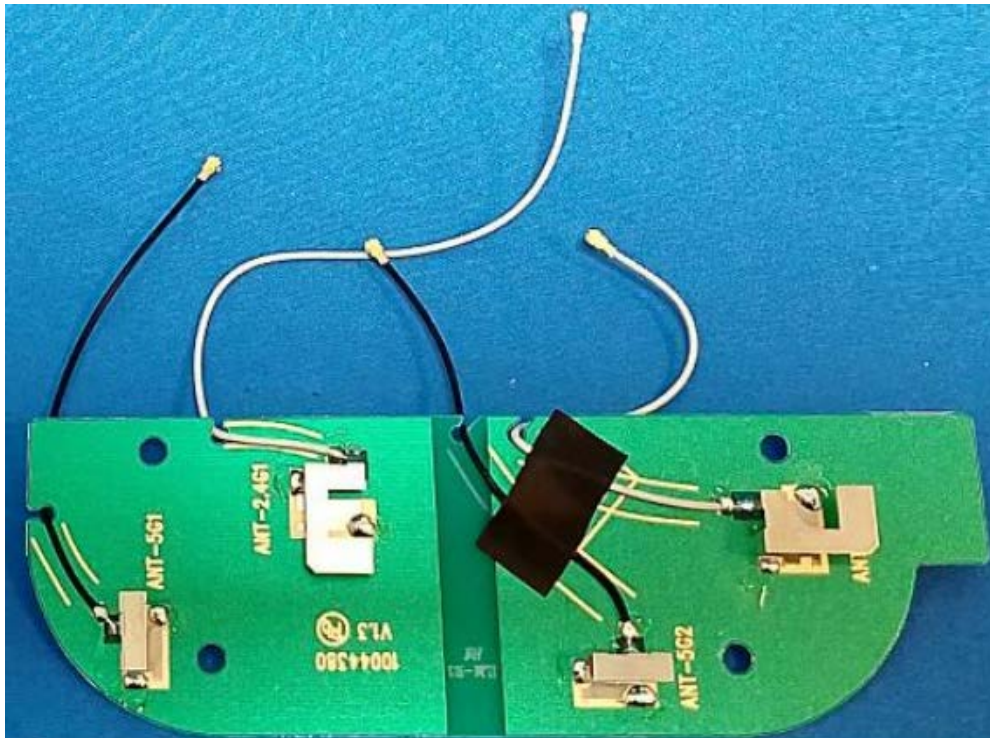
Manufacture: SHENZHEN TENDA TECHNOLOGY CO., LTD.

Address: 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan

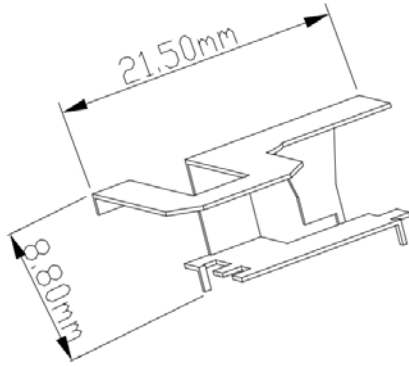
District, Shenzhen, China. 518052

1. Antenna Appearance:

2. 4GHz Ant1, Ant2, 5GHz Ant1, Ant2



5GHz Ant3



2. Electrical performance test results at normal temperature

a) 2. 4GHz Ant1

No	Test Item	Unit	Demand Performance	Test Result		Judgement
1	Frequency Range	MHz	2400-2483.5	2400-2483.5		OK
2	Gain	dBi	5 ± 1.5	2410	4.74	OK
				2450	4.65	OK
				2480	4.55	OK
3	Return loss	dB	≤ -10	2400	-13	OK
				2450	-15	OK
				2480	-13	OK

2. 4GHz Ant2

No	Test Item	Unit	Demand Performance	Test Result		Judgement
1	Frequency Range	MHz	2400-2483.5	2400-2483.5		OK
2	Gain	dBi	5 ± 1.5	2410	4.17	OK
				2450	4.42	OK
				2480	4.46	OK
3	Return loss	dB	≤ -10	2410	-14	OK
				2450	-16	OK
				2483	-13	OK

5GHz Ant1

No	Test Item	Unit	Demand Performance	Test Result		Judgement
1	Frequency Range	MHz	5150-5850	5150-5850		OK
2	Gain	dBi	5 ± 1.5	5300	5	OK
				5500	5	OK
				5750	5.15	OK
3	Return loss	dB	≤ -10	5300	-11	OK
				5500	-13	OK
				5750	-24	OK

5GHz Ant2

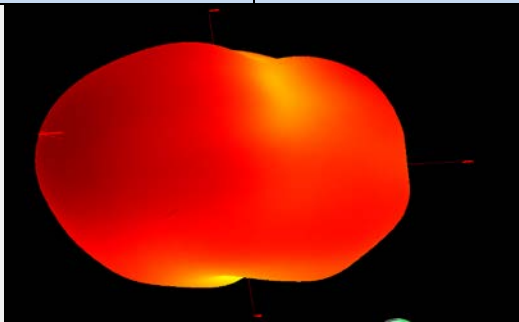
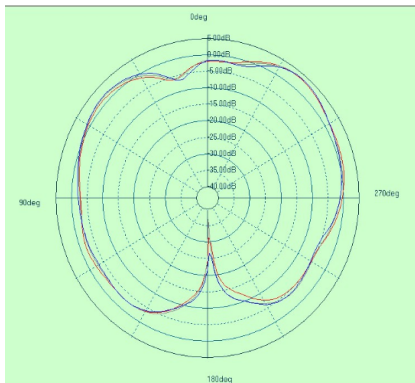
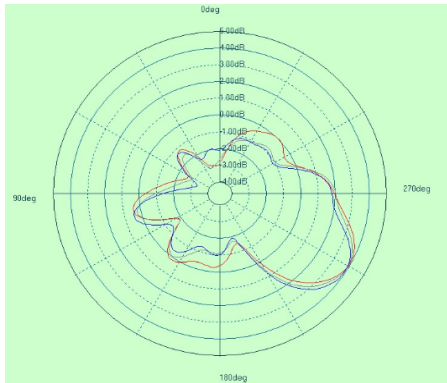
No	Test Item	Unit	Demand Performance	Test Result		Judgement
1	Frequency Range	MHz	5150-5850	5150-5850		OK
2	Gain	dBi	5 ± 1.5	5300	5	OK

				5500	5	OK
				5750	5.15	OK
3	Return loss	dB	≤ -10	5300	-11	OK
				5500	-13	OK
				5750	-24	OK

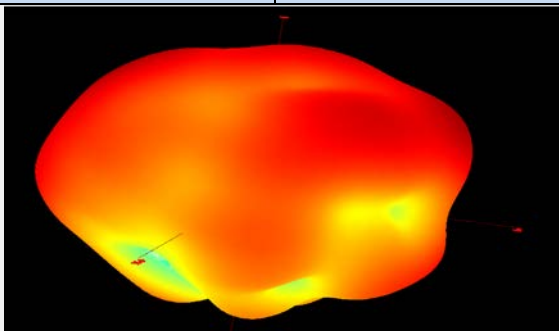
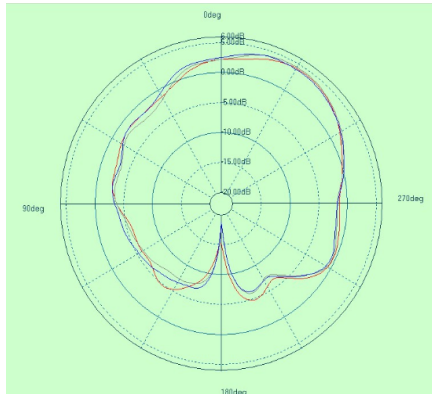
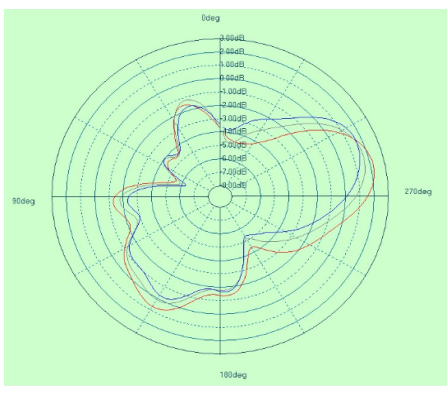
5GHz Ant3

No	Test Item	Unit	Demand Performance	Test Result		Judgement
1	Frequency Range	MHz	5150-5850	5150-5850		OK
2	Gain	dBi	5 ± 1.5	5150	4.13	OK
				5500	4.05	OK
				5850	4.26	OK
3	Return loss	dB	≤ -10	5150	-17	OK
				5500	-14	OK
				5850	-19	OK

Directional diagram for 2.4G Ant1

EUT		
Remark		
3D Radiation patterns		
	H PLANE	V PLANE
2D Radiation patterns		

Directional diagram for 2.4GHz Ant2

EUT		
Remark		
3D Radiation patterns		
	H PLANE	V PLANE
2D Radiation patterns		

Directional diagram for 5GHz Ant1

EUT		
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Remark		
3D Radiation patterns		
	H PLANE	V PLANE
2D Radiation patterns		

Directional diagram for 5GHz Ant2

EUT		
Remark		
3D Radiation patterns		
	H PLANE	V PLANE
2D Radiation patterns		

Directional diagram for 5GHz Ant3

EUT		
Remark		

