

Measurement of Antenna for RX12L Pro Project

Manufacture: SHENZHEN TENDA TECHNOLOGY CO., LTD.

Model: Mesh3EP Antenna

Electrical performance test results at normal temperature

a) 2. 4G Antenna1

No	Test Item	Unit	Demand Performance	Test Result		Judgement
1	Frequency Range	MHz	2400-2483	2400-2483		OK
2	Gain	dBi	3	2400	3. 68	OK
				2450	3. 85	OK
				2483	4. 22	OK
4	Return loss	dB	≤ -10	2400	-13	OK
				2450	-12	OK
				2483	-11	OK

2. 4G Antenna2

No	Test Item	Unit	Demand Performance	Test Result		Judgement
1	Frequency Range	MHz	2400-2483	2400-2483		OK
2	Gain	dBi	3	2400	3. 49	OK
				2450	3. 12	OK
				2483	3. 83	OK
4	Return loss	dB	≤ -10	2400	-14	OK
				2450	-14	OK
				2483	-14	OK

b) 5G Antenna1

No	Test Item	Unit	Demand Performance	Test Result		Judgement
1	Frequency Range	MHz	5150-5850	5150-5850		OK
2	Gain	dBi	3	5150	3. 82	OK
				5500	3. 93	OK
				5850	3. 80	OK
3	Return loss	dB	≤ -10	5150	-17	OK
				5500	-14	OK
				5850	-21	OK

5G Antenna2

No	Test Item	Unit	Demand Performance	Test Result		Judgement
1	Frequency Range	MHz	5150-5850	5150-5850		OK

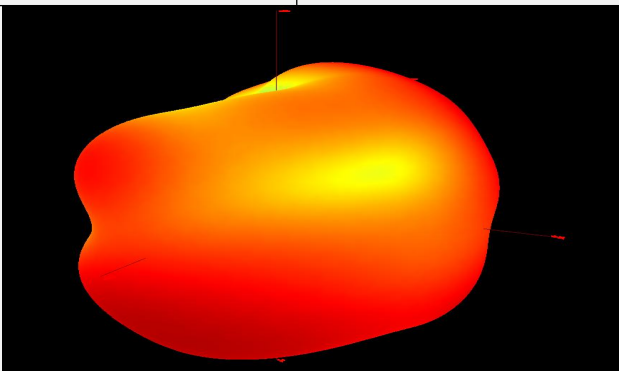
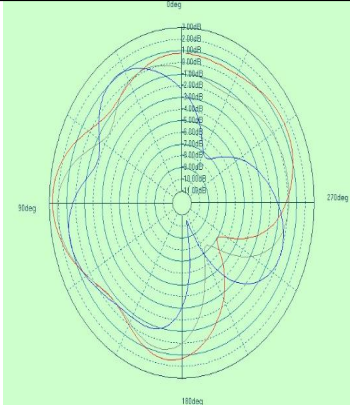
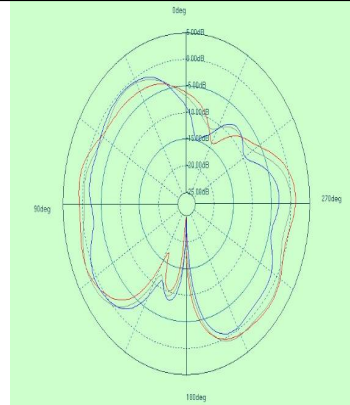


2	Gain	dBi	3	5150	3.22	OK
				5500	3.56	OK
				5850	3.82	OK
3	Return loss	dB	≤ -10	5150	-17	OK
				5500	-17	OK
				5850	-17	OK

5G Antenna3

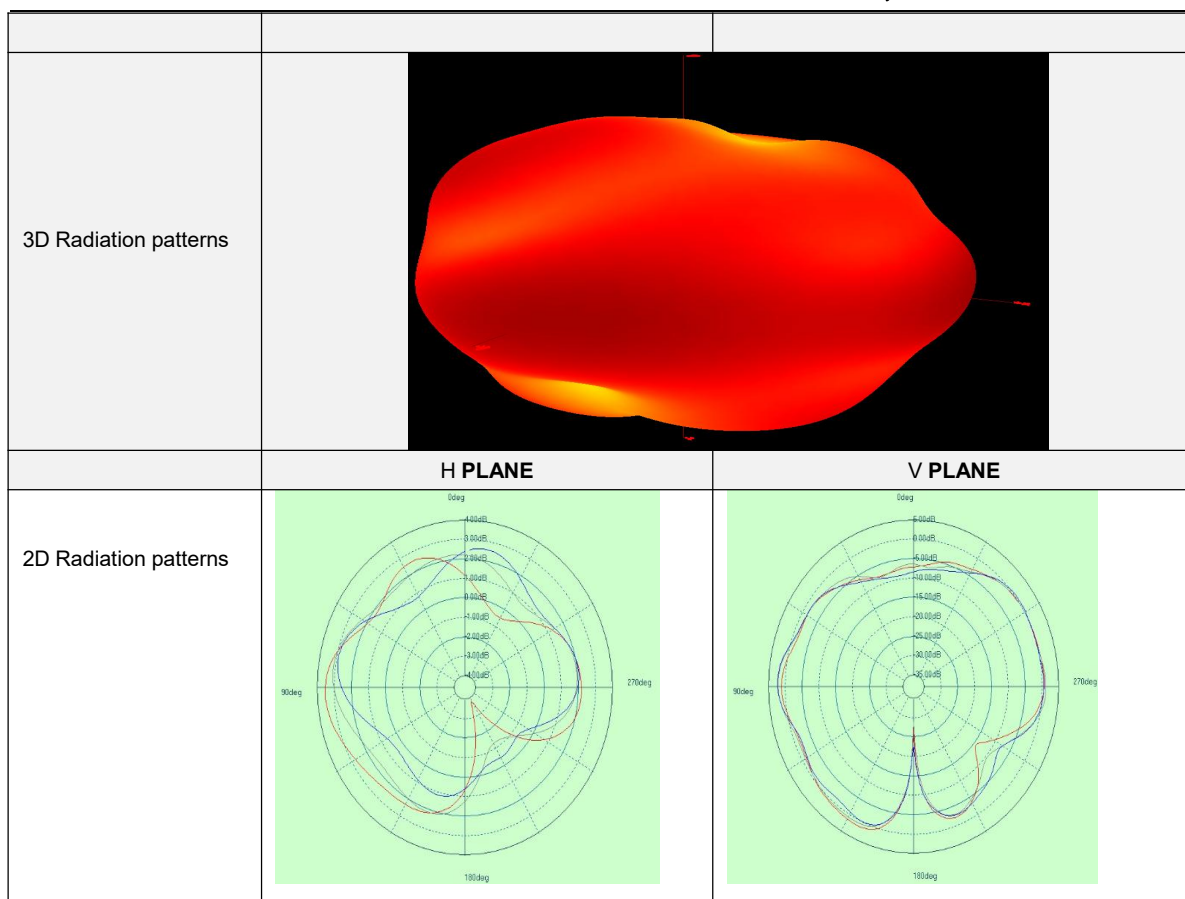
No	Test Item	Unit	Demand Performance	Test Result		Judgement
1	Frequency Range	MHz	5150-5850	5150-5850		OK
2	Gain	dBi	3	5150	3.62	OK
				5500	3.76	OK
				5850	3.94	OK
3	Return loss	dB	≤ -10	5150	-12	OK
				5500	-11	OK
				5850	-14	OK

Directional diagram for 2.4GHz Antenna1

EUT		
Remark		
Frequency	E Total. dB(dB)	Efficiency()
2400MHz	3.74	78%
2410MHz	3.80	77%
2420MHz	3.75	76%
2430MHz	3.67	77%
2440MHz	3.76	79%
2450MHz	3.80	78%
2460MHz	3.89	77%
2470MHz	4.02	77%
2480MHz	4.09	78%
3D Radiation patterns		
	H PLANE	V PLANE
2D Radiation patterns		

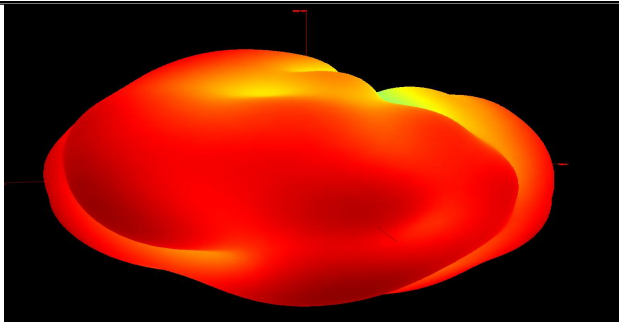
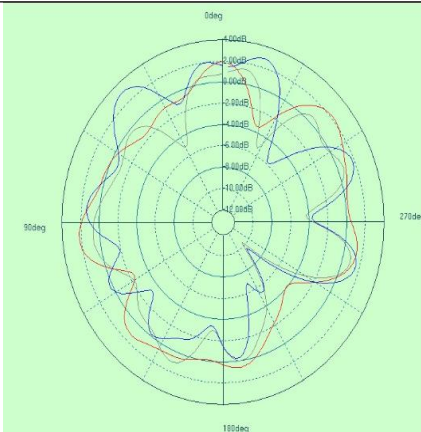
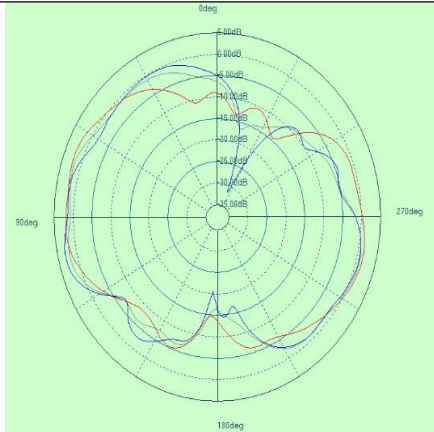
Directional diagram for 2.4GHz Antenna2

EUT		
Remark		
Frequency	E Total. dB(dB)	Efficiency()
2400MHz	3.60	84%
2410MHz	3.49	84%
2420MHz	3.01	83%
2430MHz	3.00	84%
2440MHz	3.06	85%
2450MHz	3.12	84%
2460MHz	3.90	82%
2470MHz	3.63	83%
2480MHz	3.72	84%

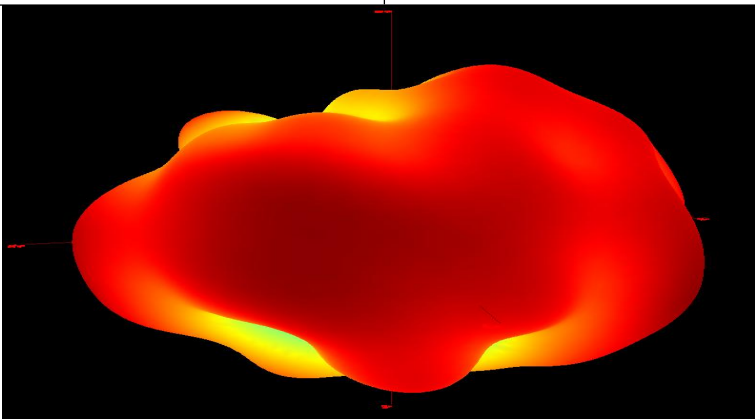


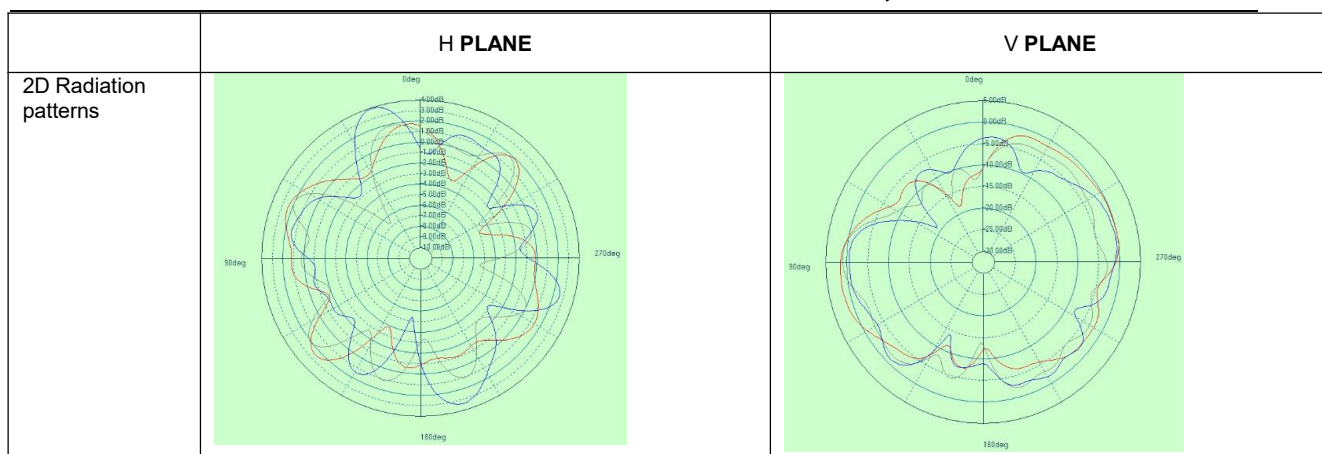
Directional diagram for 5GHz Antenna1

Frequency	E Total. dB(dBi)	Efficiency()
5150MHz	3.82	71%
5200MHz	3.86	71%
5250MHz	3.57	70%
5300MHz	3.96	73%
5350MHz	4.15	76%
5400MHz	4.17	74%
5450MHz	3.93	72%
5500MHz	3.58	72%
5550MHz	2.97	72%
5600MHz	3.31	74%
5650MHz	3.31	77%
5700MHz	3.22	77%
5750MHz	3.30	76%
5800MHz	3.30	72%

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

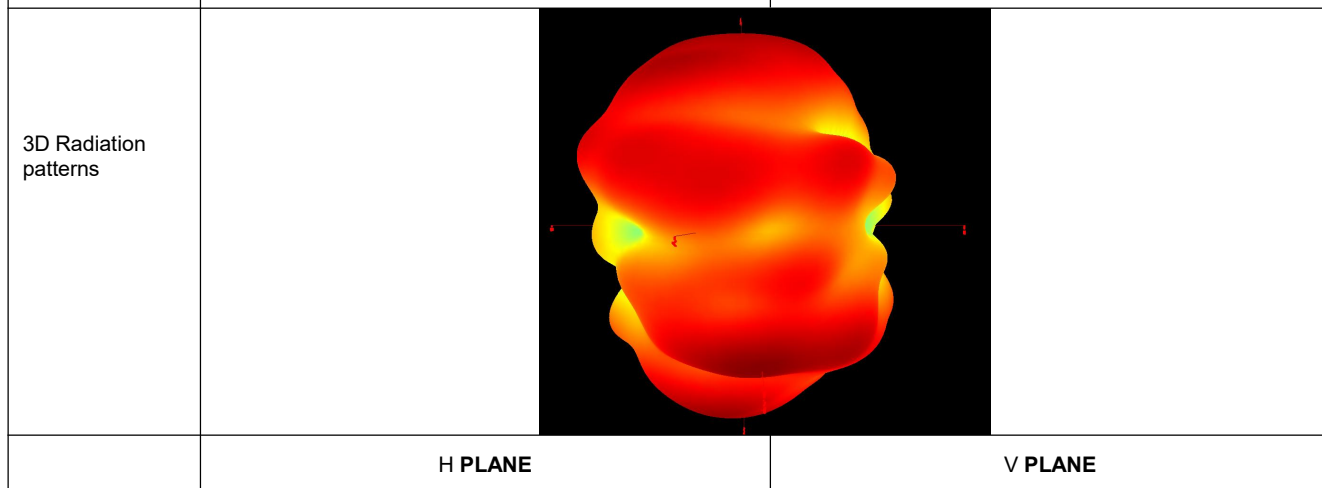
Directional diagram for 5GHz Antenna2

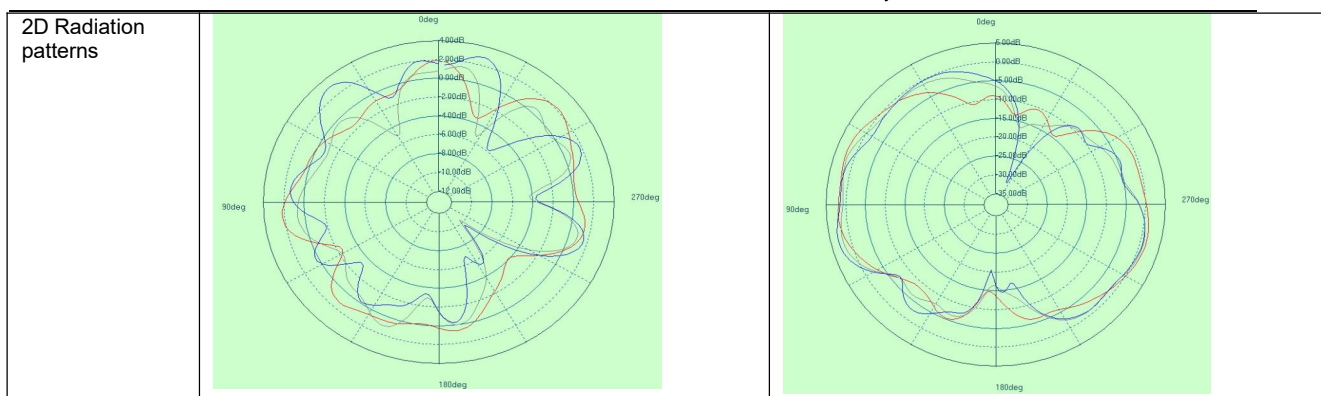
Frequency	E Total. dB(dBi)	Efficiency()
5150MHz	3.12	74%
5200MHz	3.34	71%
5250MHz	3.49	71%
5300MHz	3.53	71%
5350MHz	3.67	75%
5400MHz	3.96	76%
5450MHz	4.08	72%
5500MHz	3.46	78%
5550MHz	3.30	76%
5600MHz	2.87	75%
5650MHz	2.79	77%
5700MHz	3.11	71%
5750MHz	3.52	74%
5800MHz	3.73	76%
3D Radiation patterns		



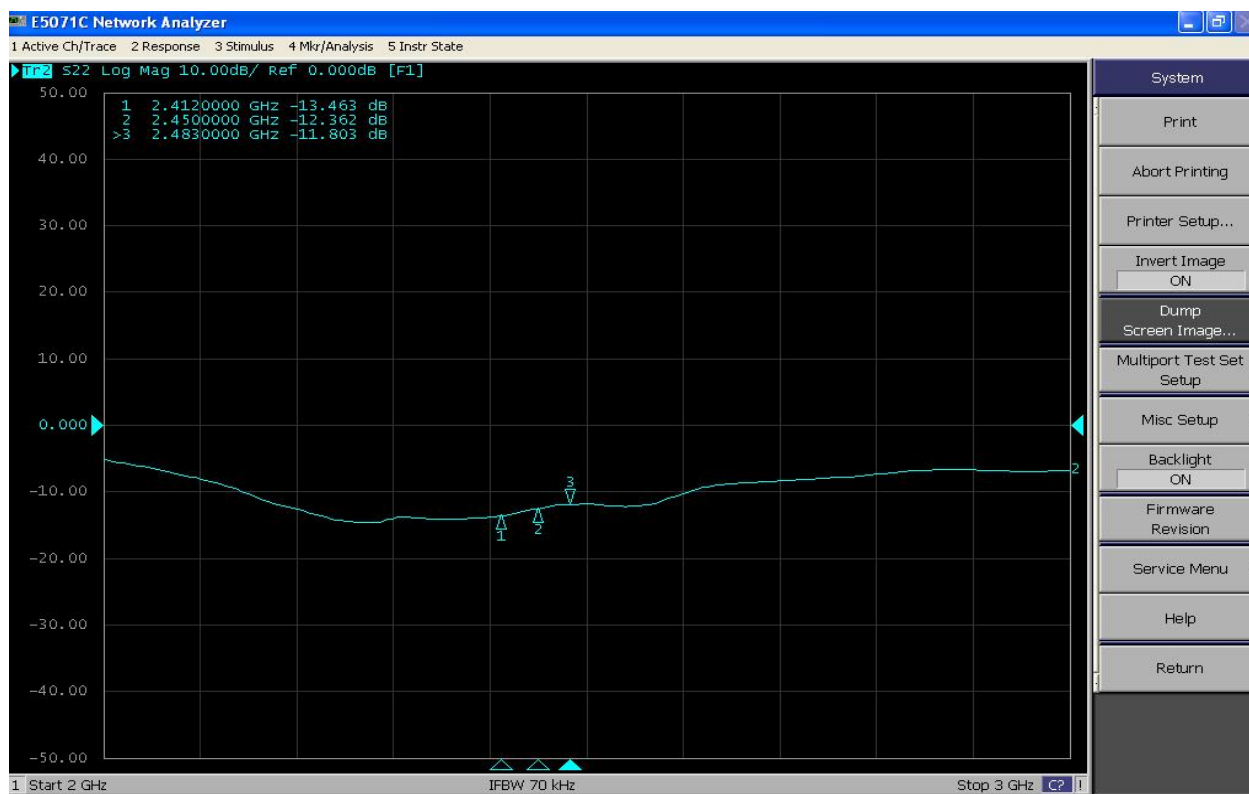
Directional diagram for 5GHz Antenna3

Frequency	E Total. dB(dBi)	Efficiency()
5150MHz	3.62	75%
5200MHz	3.64	72%
5250MHz	3.39	71%
5300MHz	3.21	73%
5350MHz	3.77	72%
5400MHz	3.53	74%
5450MHz	4.28	71%
5500MHz	3.76	74%
5550MHz	3.35	72%
5600MHz	3.57	73%
5650MHz	3.39	75%
5700MHz	3.18	72%
5750MHz	3.42	74%
5800MHz	3.24	73%





2. 4G Return loss test



5G Return loss test



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