

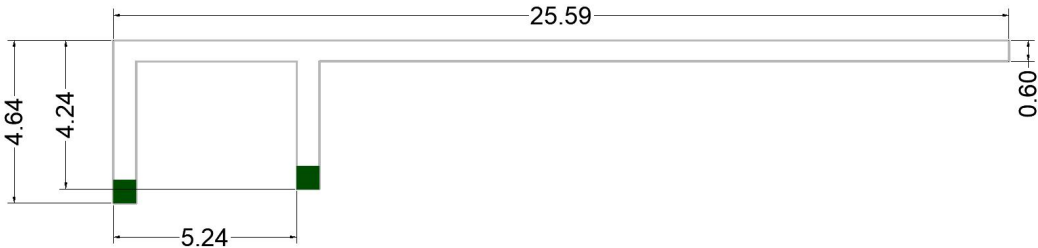
ANTENNA TEST REPORT

Product Name	CM921
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Summary

ITEM	SPEC.
Model Name	BT 2.4 GHz
MAX. GAIN	1.97dBi
Polarization	Horizontal
Impedance	50 Ω
Antenna Type	PCB antenna
Manufacturer	Ugreen Group Limited
Address	4th Floor, Building 6, Longcheng Industrial Zone, Longguan West Road, Longhua District, Shenzhen City, Guangdong Province

Antenna Photo & Length (mm)



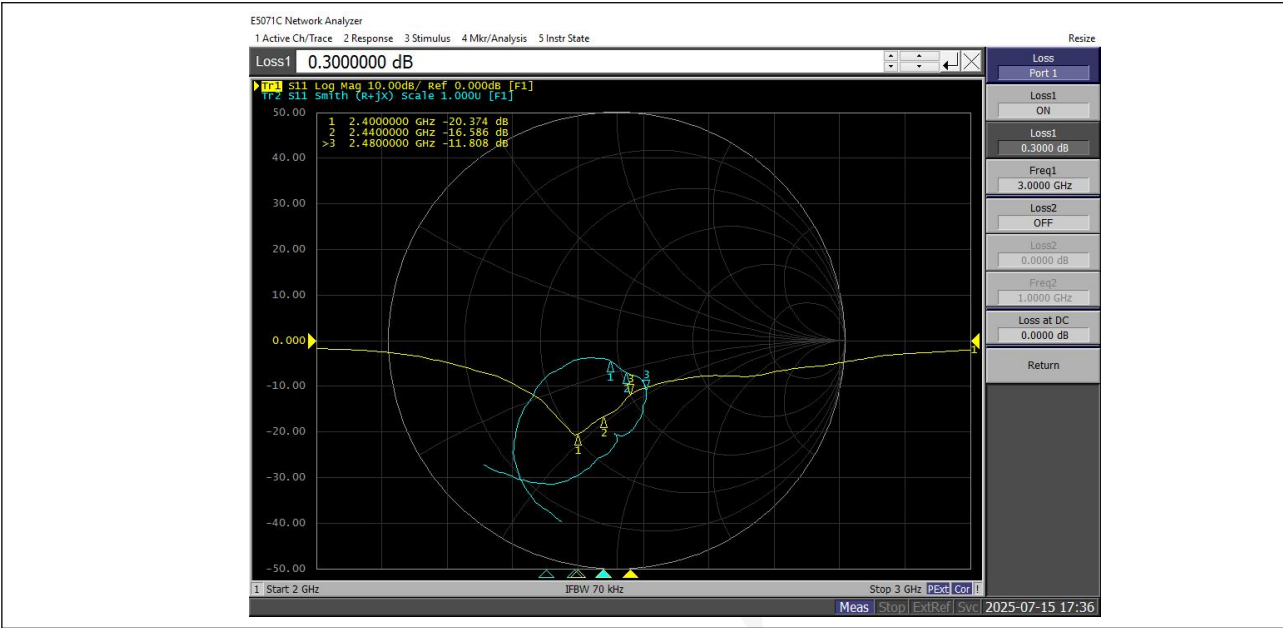
position number	①	②	③
numerical value	0.5pF	1.8nH	NC

Electrical performance test results

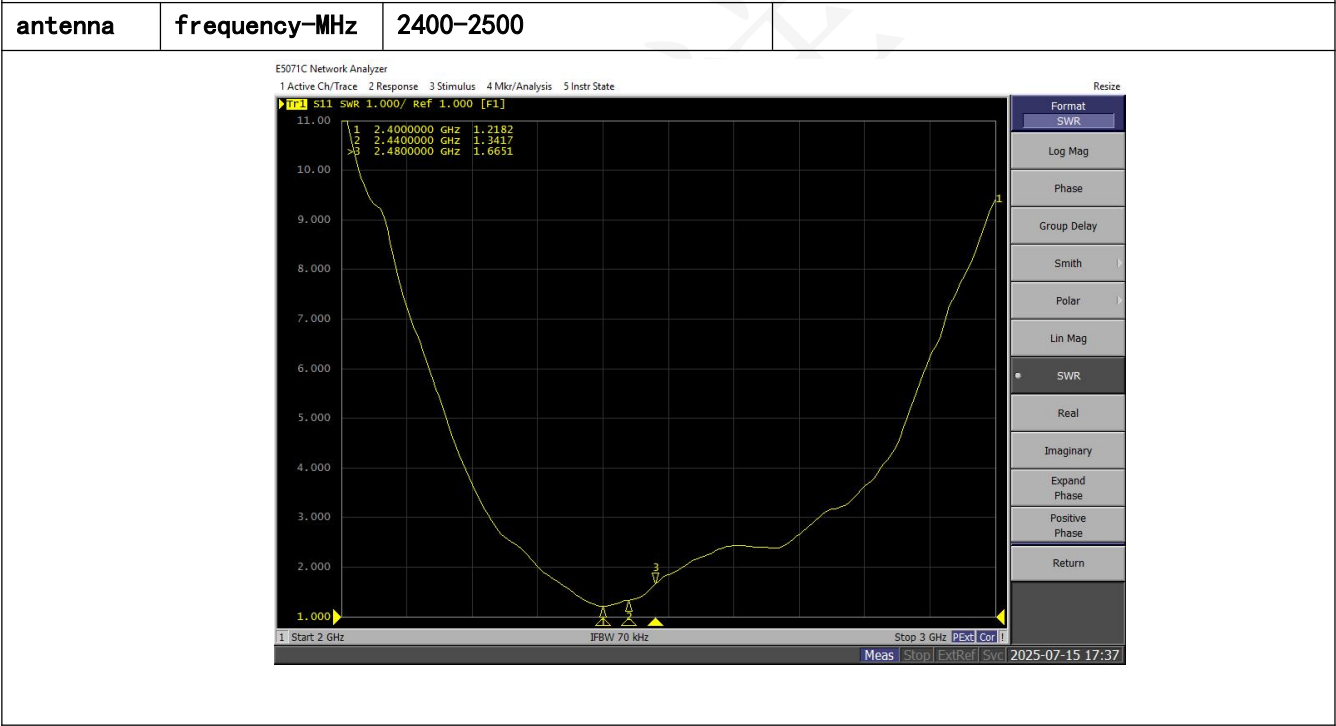
Antenna specifications						
serial number	Inspection Item	unit	Performance indicator requirements	Test results		sentence
1	frequency range	MHz	2412-2483	2400-2483		OK
2	Gain	dBi	/	2400	68.56	
				2440	58.68	
				2480	60.38	
4	Return Loss	dB	≤-10	2400	-20.37	
				2440	-16.58	
				2480	-11.8	
4	Standing Wave Ratio	dB	/	2400	1.21	
				2440	1.34	
				2480	1.66	

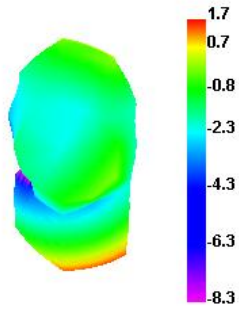
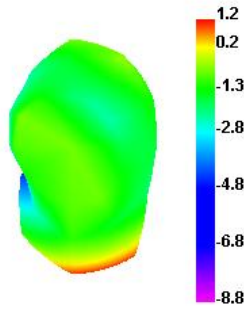
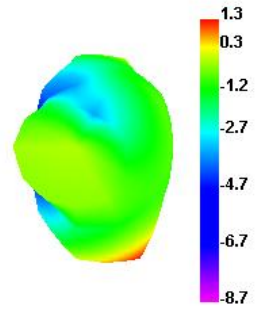
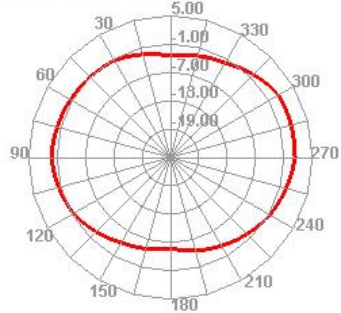
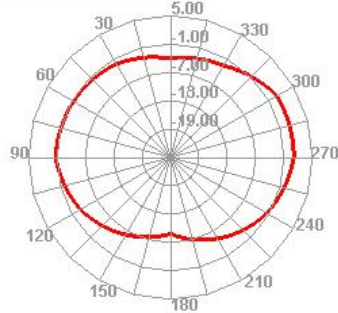
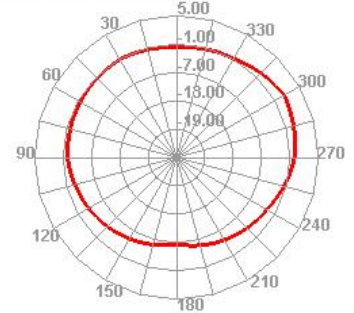
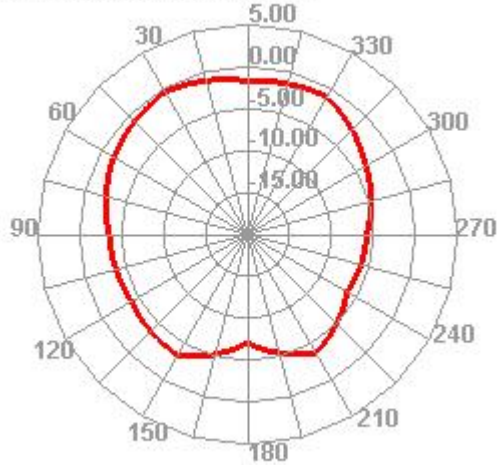
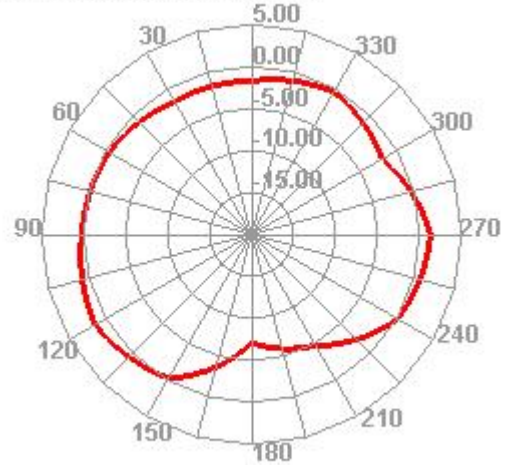
Return Loss Log Mag S11		
antenna	frequency-MHz	2400-2500

Passive antenna test report

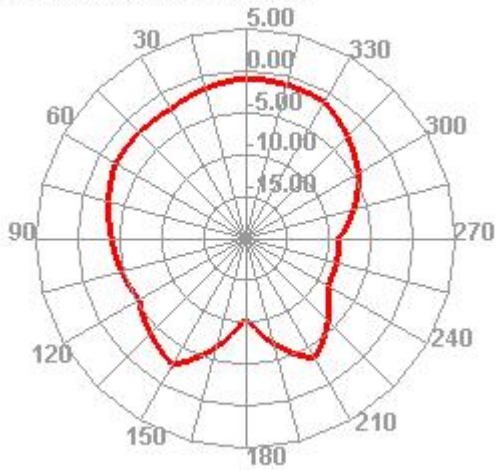


Standing Wave Ratio SWR

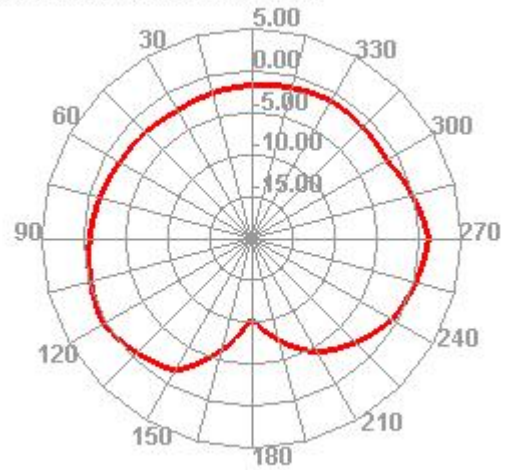


Radiation parameter testing**antenna****Radiation pattern (2.4G)****2400.000MHz****2440.000MHz****2480.000MHz****water level****2400.000MHz H****2440.000MHz H****2480.000MHz H****vertical plane****2400.000MHz E1****2400.000MHz E2**

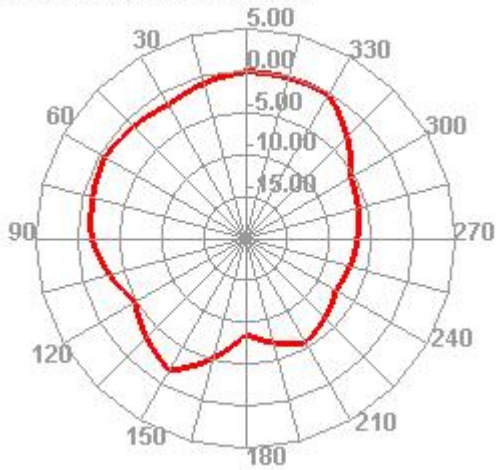
2440.000MHz E1



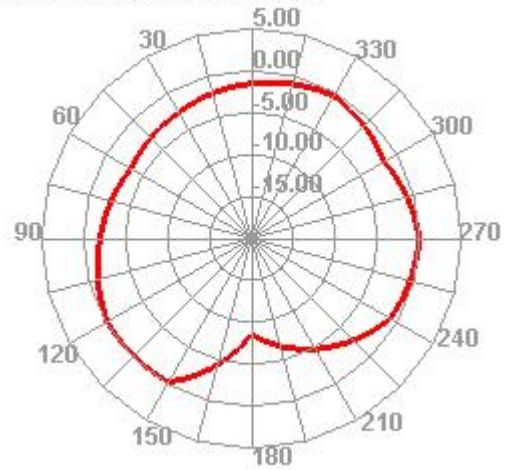
2440.000MHz E2



2480.000MHz E1



2480.000MHz E2



Passive efficiency of antenna		
Frequency	E Total. dB(dBi)	Efficiency(%)
2400MHz	1. 67	68. 56
2410MHz	1. 97	67. 82
2420MHz	1. 95	64. 24
2430MHz	1. 6	60. 35
2440MHz	1. 24	58. 68
2450MHz	1. 45	58. 87
2460MHz	1. 45	58. 61
2470MHz	1. 34	58. 18
2480MHz	1. 3	60. 38
2490MHz	1. 09	60. 82
2500MHz	1. 01	62. 98