



Shenzhen Yingjichuang Electronic Technology Co., Ltd.

<http://www.szsyjc.com>

APPROVAL SHEET

承认书

CUSTOMER NAME 客户名称	Jooan	
CUSTOMER P/N 客户料号		
PART NAME 品 名	4G White integrated antenna L=210MM (G4Q3-U)	
P/ N 料 号	YJC-6C210-W15	
APPROVAL REV. 版 次	A0	
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CHECKED BY 审 核		
APPROVED BY 核 准		
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Directory

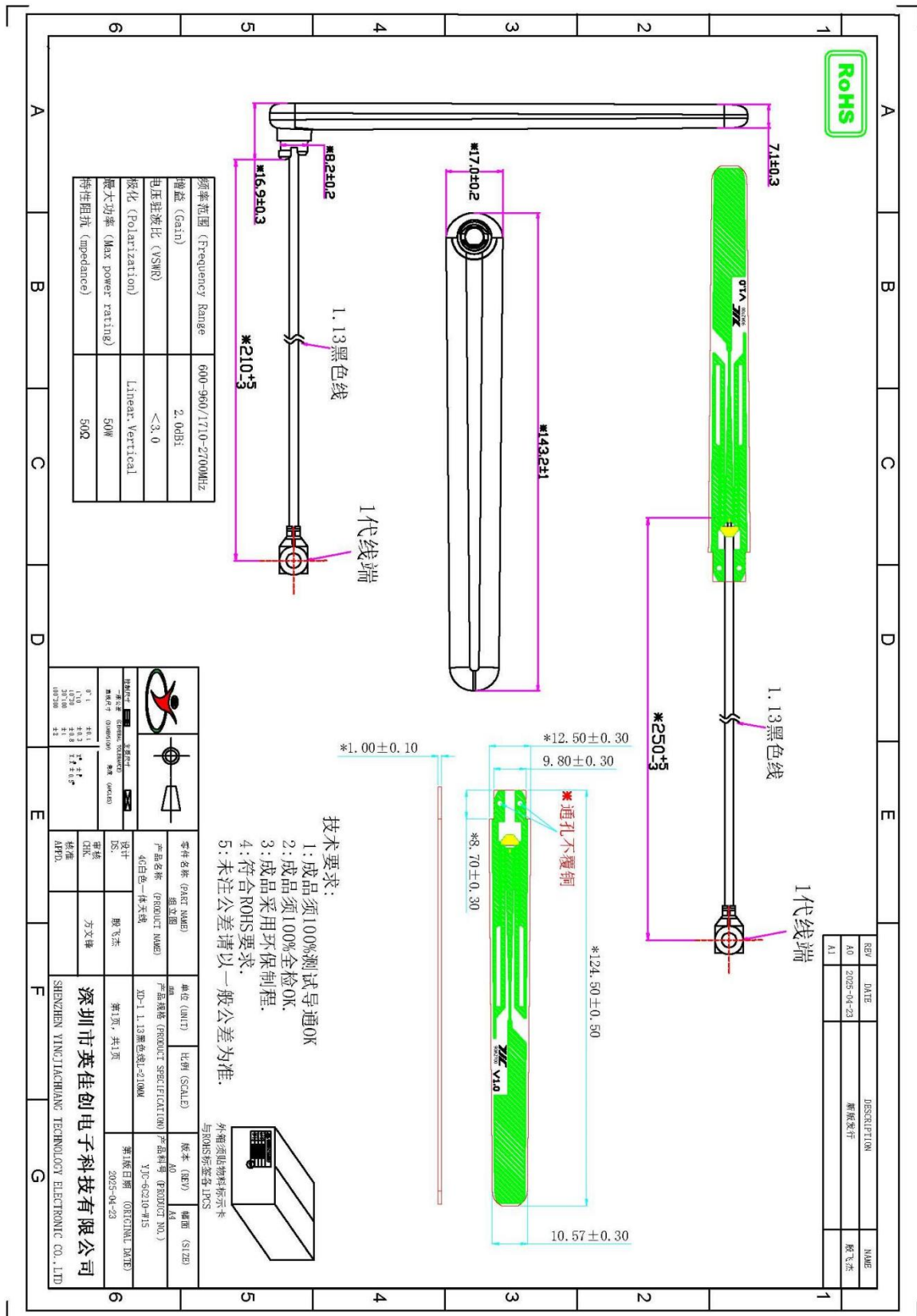
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Resume

Version	Content of changes and reasons for changes	date	issued
A/0	Original Issue	April 23, 2025	

Antenna plan view:





Antenna technical parameters and environmental testing:

电气技术参数 Electrical technical parameters			
电 性 能 指 标		Electrical Specifications	
频率范围	600-960/1710-2700MHz	Frequency Range	600-960/1710-2700MHz
电压驻波比	<3.0	VSWR	<3.0
输入阻抗	50 Ω	Input Impedance	50 Ω
方向	全向	Direction	All
机 械 指 标		Mechanical Specifications	
天线颜色	白色	Antenna Color	White
接口形式	XD-1	Input connector	XD-1
线材长度	210mm	Wire length	210mm
工作温度	-20℃~+70℃	Working Temperature	-20℃~+70℃
工作湿度	20%~80%	Working Humidity	20%~80%

Environmental performance test:

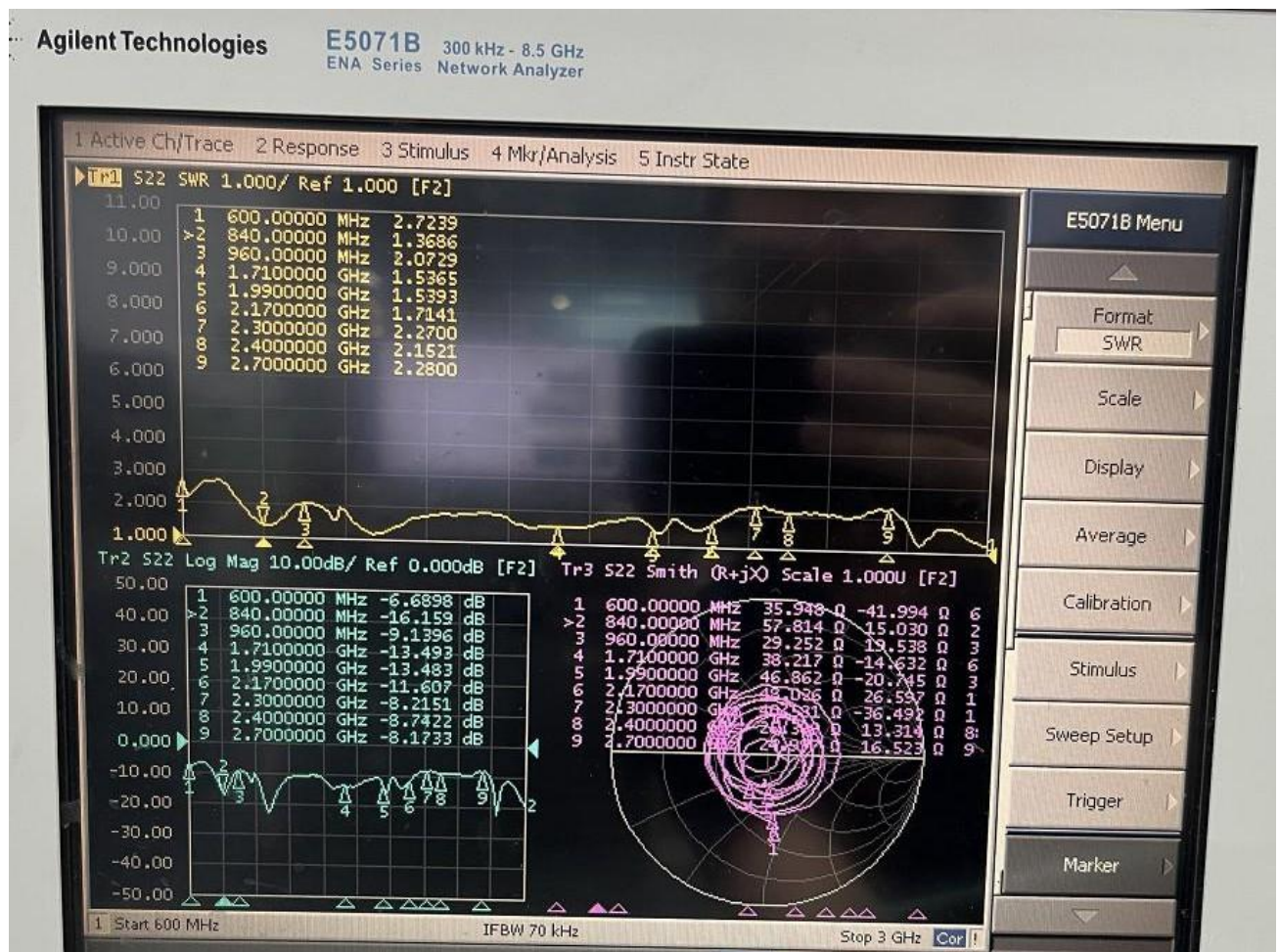
Item	test condition	specification
storage condition	Without any specific instructions, the following test conditions are applied for temperature, humidity and air pressure: 1. Temperature range: -30℃ to +80℃ 2. Relative humidity range: 45% to 85% 3. Air pressure range: 86 kPa to 106 kPa	Electrical and mechanical performance is normal.
Low and high temperature test	Perform 5 cycles between 70℃ and -20℃, then under normal conditions for 1-2 hours, and inspect the appearance quality.	The dimensions should comply with the regulations and should also meet the mechanical and electrical performance requirements.
Resistant to constant high-temperature and humidity testing	Relative humidity: 95 ± 3%. Test temperature: 40℃. After the test duration of 2 hours, the sample is taken out and its electrical performance is measured within 5 minutes. Then, under normal conditions, the sample is inspected for appearance quality for 1-2 hours.	The dimensions should comply with the regulations and should also meet the mechanical and electrical performance requirements.
vibration test	Frequency range: 10 - 55 Hz, displacement amplitude: 0.35 mm, acceleration amplitude: 50.0 m/s, sweep frequency cycle: 30 times	Electrical and mechanical performance is normal.
drop test	1M height: freely fall 3 times in the direction of mutually perpendicular axes	Electrical and mechanical performance is normal.



Antenna physical diagram:



Antenna performance test chart:

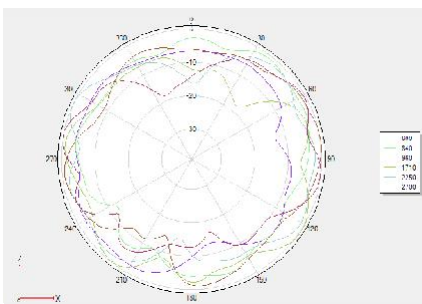




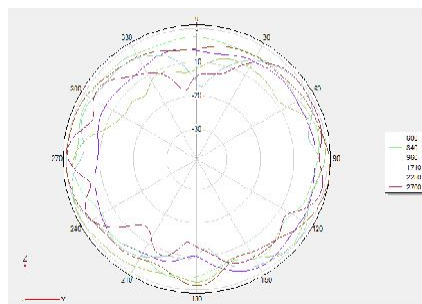
2D、3D test data (4G):

Frequency	Efficiency (%)	Gain. (dBi)
600	40.54	-1.03
620	42.36	-0.88
640	54.45	-0.31
660	55.72	-0.32
680	50.53	0.01
700	50.95	-0.24
720	49.55	-1.47
740	62.23	-0.51
760	47.33	-0.99
780	44.57	-0.17
800	48.19	-0.64
820	40.18	-0.14
840	38.46	-0.4
860	41.69	-0.63
880	44.87	0.09
900	45.81	0.23
920	54.7	0.96
940	55.08	0.95
960	57.28	1.05
1710	47.97	1.81
1800	47.42	2.26
1890	51.4	1.86
1980	57.41	2.05
2070	46.88	1.28
2160	59.16	1.44
2250	52.12	0.64
2340	55.72	1.14
2430	44.46	0.71
2520	48.08	1.32
2610	47.64	1.65
2700	45.08	0.79

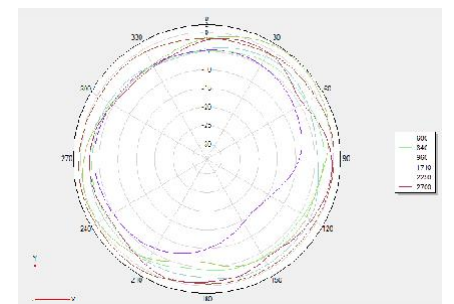
Phi 0 2D 图:



Phi 90 2D 图

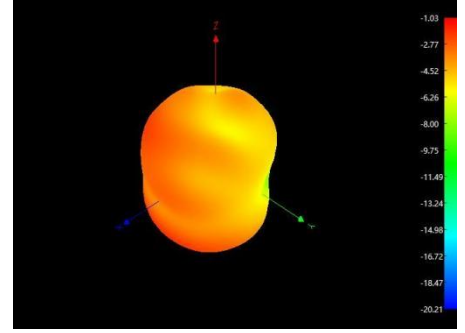
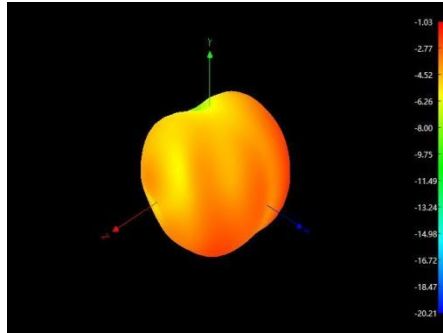
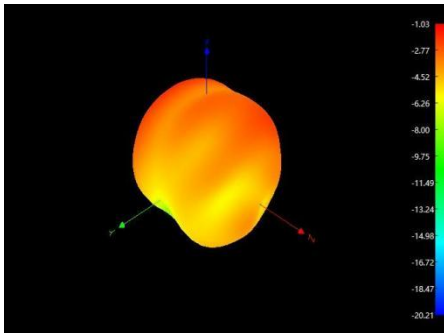


Theta 90 2D 图

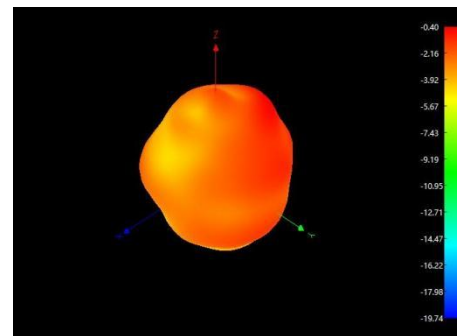
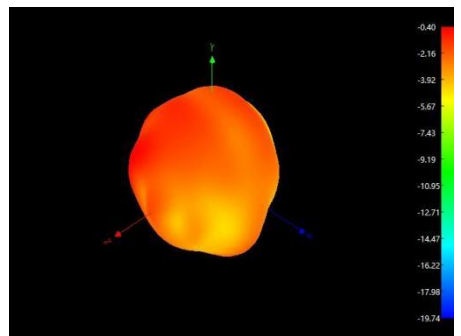
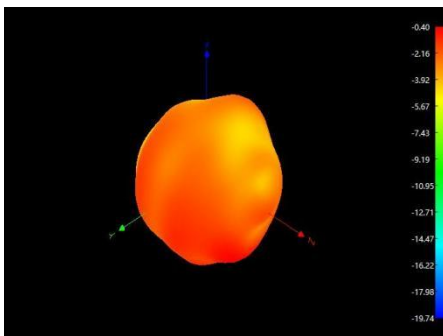




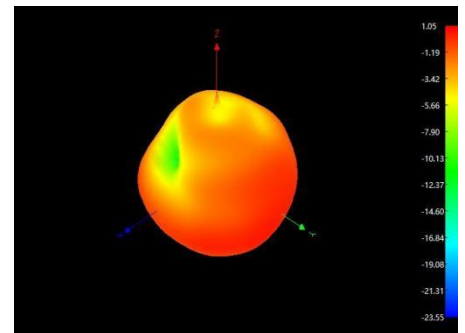
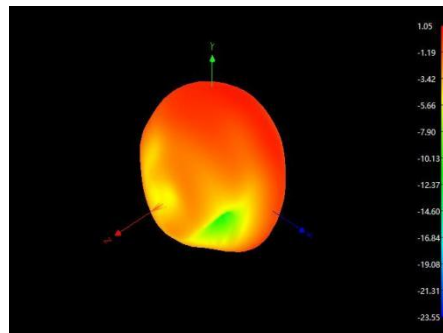
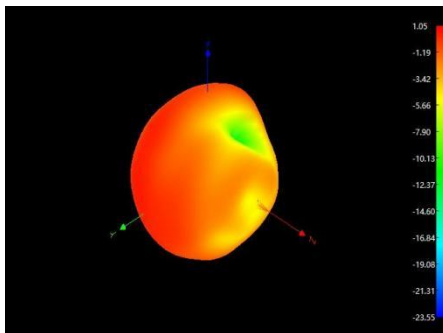
3D 600:



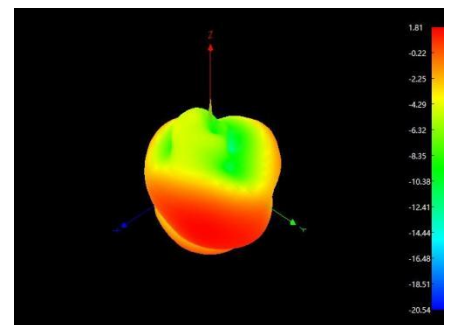
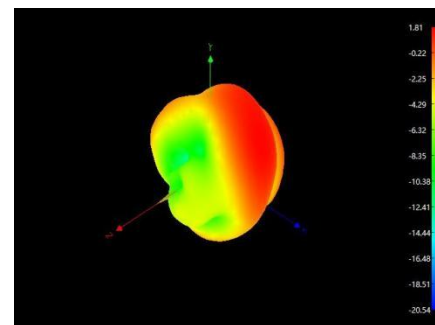
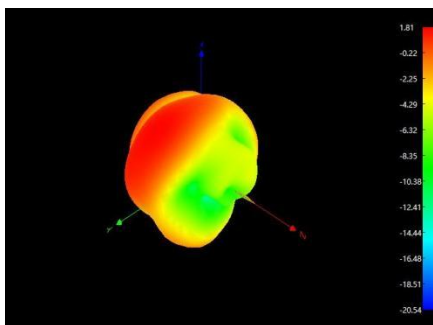
3D 840:



3D 960:

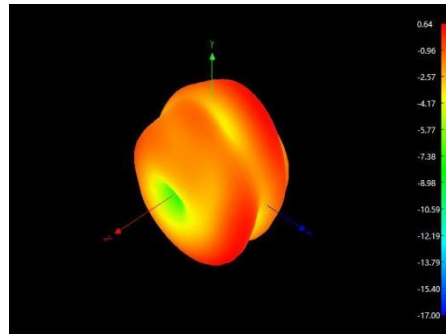
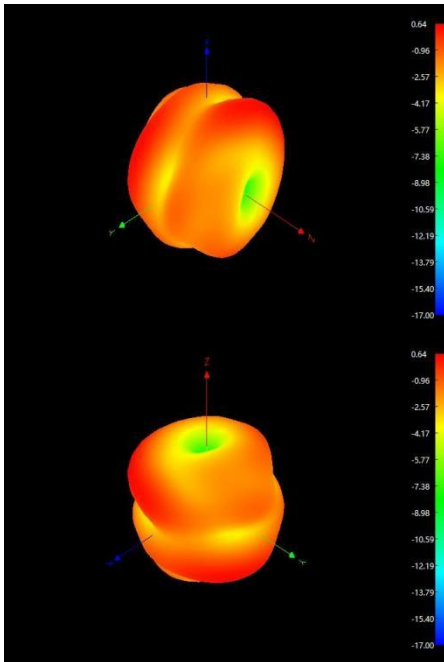


3D 1710:





3D 2250:



3D 2700:

