

## Approval Sheet

Supplier: Shenzhen Yingjiachuang Electronic Technology Co., Ltd

Product Name: 4G (Sub Set) White Integrated Antenna 1.13 Gray Line L=275MM

Figure number (P c o d e):

Version: V1.0

Material Code:

Date (D a t e): October 18, 2023

### Supplier confirmation

Draft/Date	Review/Date	Approval/Date
Wu Jiexiong	Fang Wenfeng	Xiao Han

### Customer confirmation

Quality/Date	Development/Date	Product Manager/Date

CUSTOMER NAME Customer Name	Mi Rui	
CUSTOMER P/N Customer part number		
Part Name	4G (sub set) white integrated antenna 1.13 gray line L=275MM	
P/ N Part number	YJC-6C275-W05	
APPROVAL REV Version	V1.0	
DELIVERY DATE Sample delivery date	October 18, 2023	
Prepared BY Undertaking	 Wu Jiaxiong	
CHECKED BY Auditing	 Fang Wenfeng	
Approved BY approval	Xiao Han	
Customer Approved		
Prepared By	Checked By	Approved By

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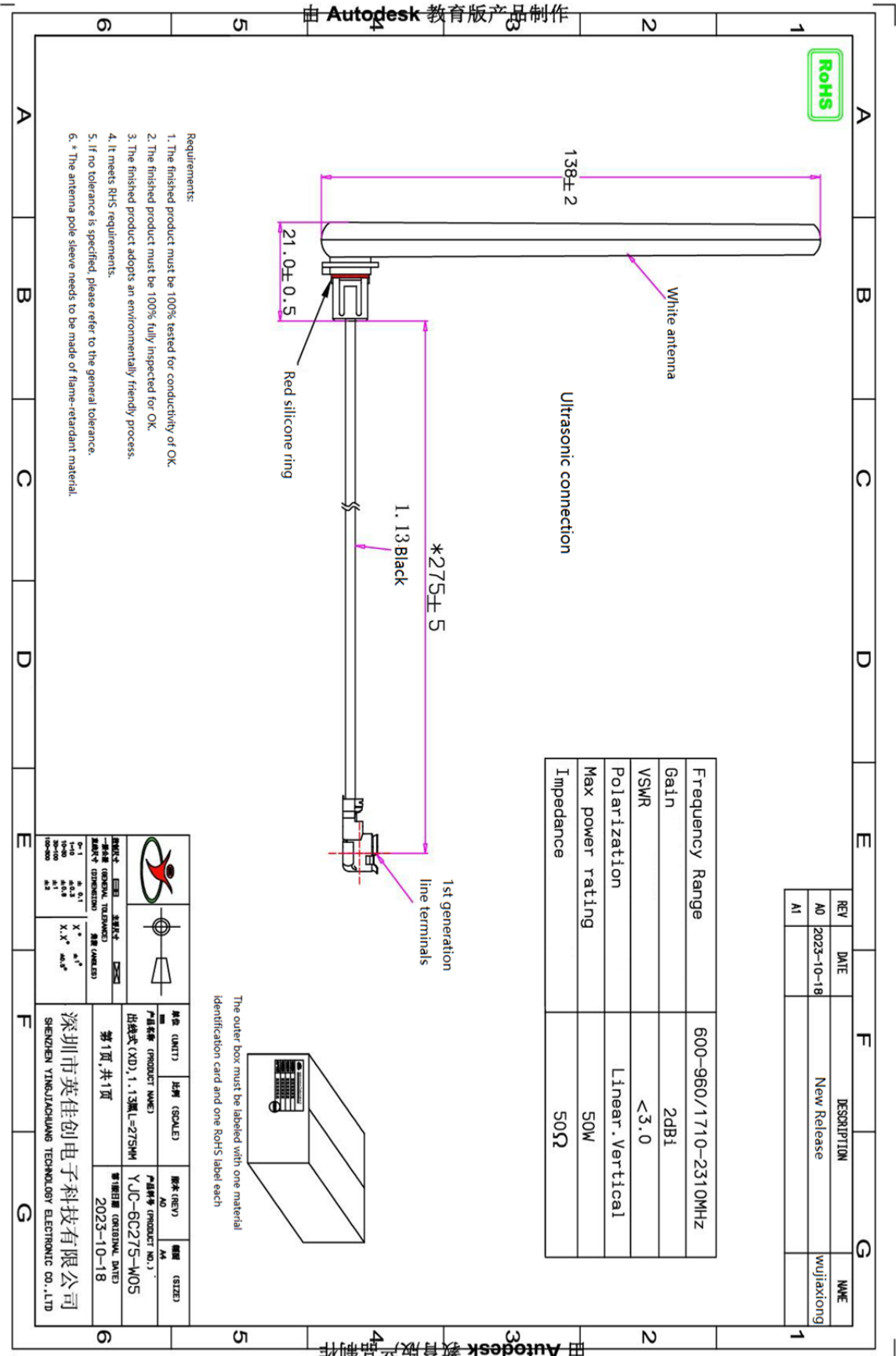
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Antenna Plan:



- Requirements:
1. The finished product must be 100% tested for conductivity of OK.
  2. The finished product must be 100% fully inspected for OK.
  3. The finished product adopts an environmentally friendly process.
  4. It meets RoHS requirements.
  5. If no tolerance is specified, please refer to the general tolerance.
  6. \* The antenna pole sleeve needs to be made of flame-retardant material.

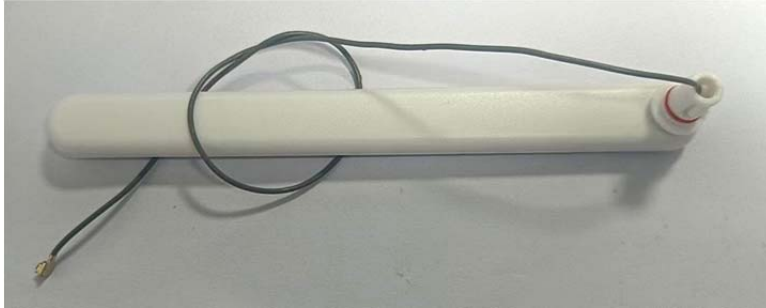
**Antenna technical parameters and environmental testing:**

Electrical technical parameters			
Electrical performance indicators		Electrical Specifications	
frequency range	600-960/1710-2310MHz	Frequency Range	600-960/1710-2310MHz
Voltage standing wave ratio	< 3.0	VSWR	< 3.0
Input impedance	50 Ω	Input Impedance	50 Ω
direction	omnidirectional	Direction	All
gain	2.0dBi	Gain	2.0dBi
Mechanical indicators		Mechanical Specifications	
Antenna color	white	Antenna Color	White
Interface form	XD	Input connector	XD
Wire length	275mm	Cable length	275mm
working temperature	-20 °C~+70 °C	Working Temperature	-20 °C~+70 °C
Working humidity	20%~80%	Working Humidity	20%~80%

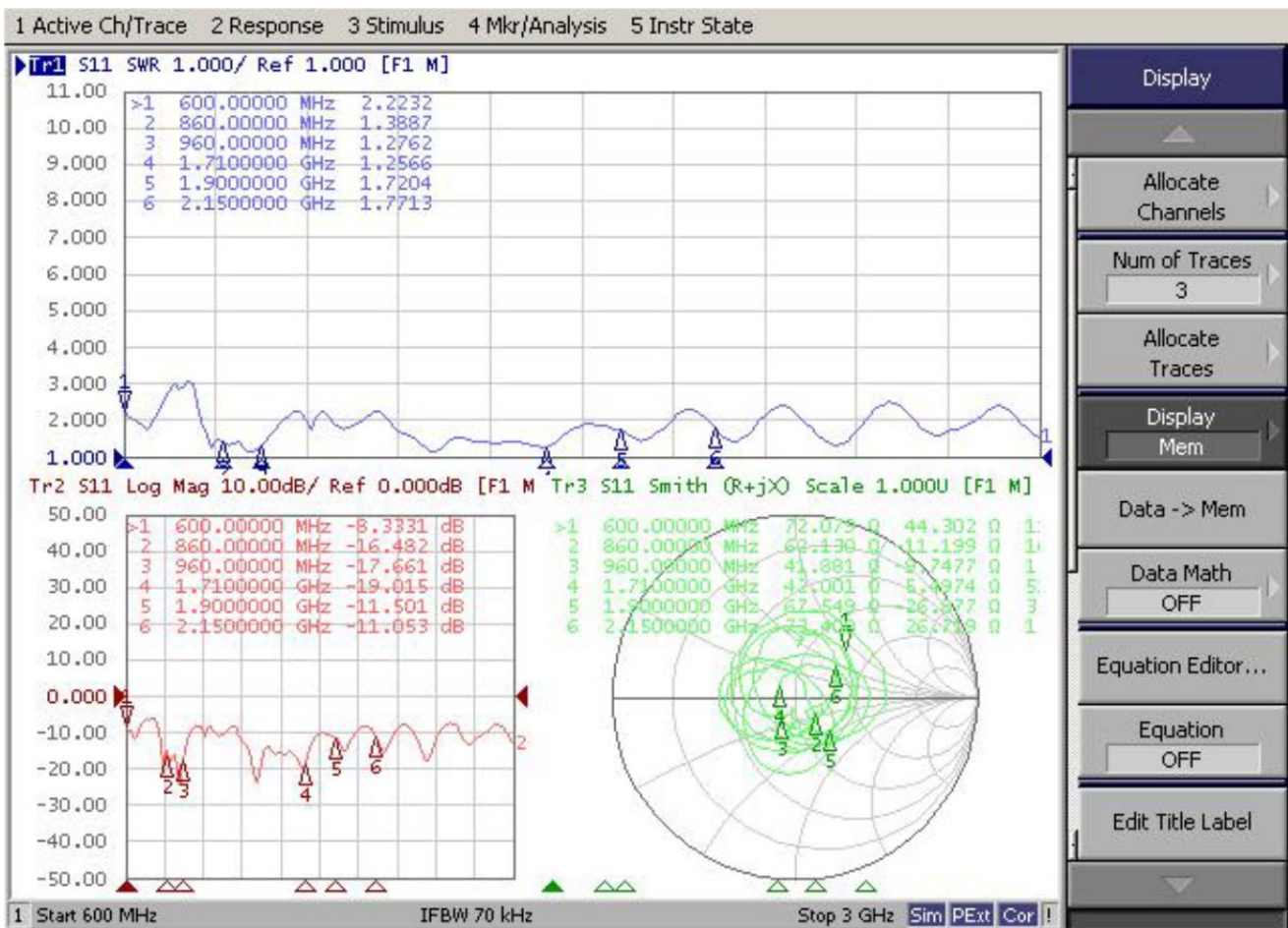
**Environmental performance testing:**

project	Test conditions	specifications
Storage environment	Test the temperature, humidity, and air pressure without specifying them as follows: 1、 Temperature range from -30 °C to+80 °C 2、 Relative humidity is 45% -85%. 3. Air pressure is between 86kpa and 106kpa	Normal electrical and mechanical performance
High and low temperature test	Perform 5 cycles between 70 °C and -20 °C, and then inspect the appearance quality under normal conditions for 1-2 hours.	The size should meet the specifications and meet the mechanical and electrical performance requirements
Constant humidity and heat resistance test	Relative humidity of 95 ± 3%, test temperature: 40 °C. After continuous action for 2 hours, the electrical performance of the test piece shall be measured within 5 minutes after removal. The test piece shall be inspected for appearance quality under normal conditions for 1-2 hours	The size should meet the specifications and meet the mechanical and electrical performance requirements
vibration test	Vibration frequency range 10-55Hz, displacement amplitude: 0.35MM, acceleration amplitude: 50.0M/s, frequency sweep cycles: 30 times	Normal electrical and mechanical performance
Drop test	Free fall three times from a height of 1M in the direction of mutually perpendicular axes	Normal electrical and mechanical performance

Antenna physical image:



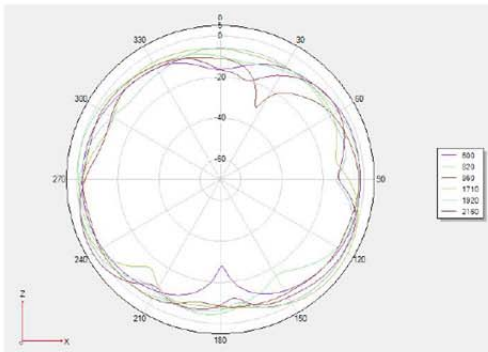
Antenna performance test chart:



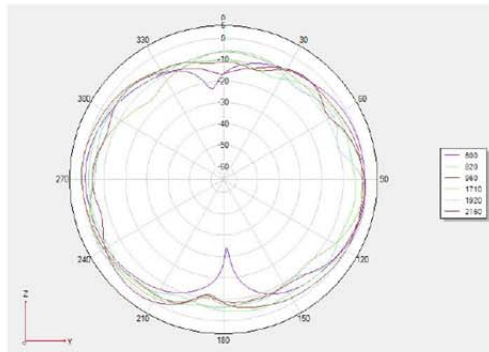
2D, 3D (4G) test data:

Frequency	Efficiency (%)	Gain (dBi)
600MHz	33.66	0.37
620MHz	41.33	0.75
640MHz	36.79	0.54
660MHz	36.12	0.26
680MHz	44.12	1.34
700MHz	48.55	1.4
720MHz	33.77	0.64
740MHz	41.92	0.96
760MHz	31.68	0.61
780MHz	32.32	0.53
800MHz	36.42	0.71
820MHz	34.28	0.43
840MHz	34.03	0.4
860MHz	31.89	0.16
880MHz	32.1	0.24
900MHz	34.35	0.4
920MHz	35.89	0.52
940MHz	43.45	1.21
960MHz	41.64	0.73
1710MHz	46.67	1.25
1740MHz	48.08	2.46
1770MHz	49.77	2.54
1800MHz	49.66	2.74
1830MHz	48.98	2.56
1860MHz	50.47	2.5
1890MHz	45.08	2.21
1920MHz	45.71	2.04
1950MHz	50	2.44
1980MHz	56.62	2.4
2010MHz	60.95	2.11
2040MHz	58.75	1.42
2070MHz	56.1	1.38
2100MHz	53.21	1.86
2130MHz	55.34	1.87
2160MHz	56.23	1.98
2190MHz	47.42	2.13
2220MHz	53.46	2.38
2250MHz	56.1	2.26
2280MHz	50.35	1.62
2310MHz	47.53	1.55

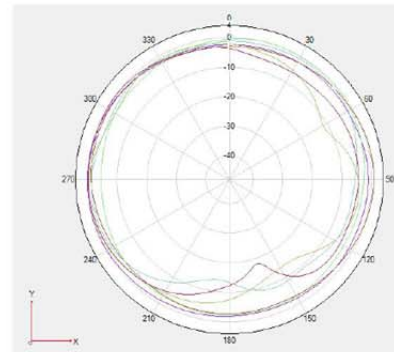
Phi 0 2D image:



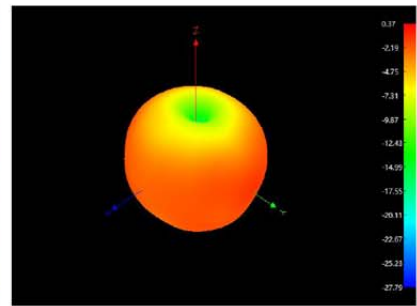
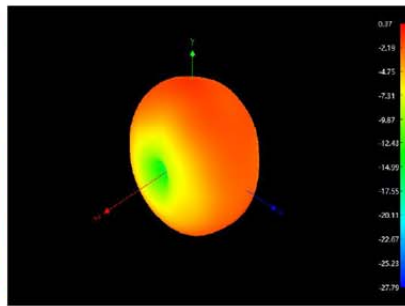
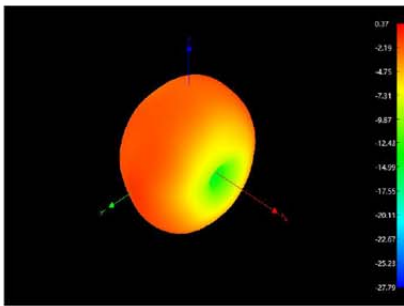
Phi 90 2D image  
image



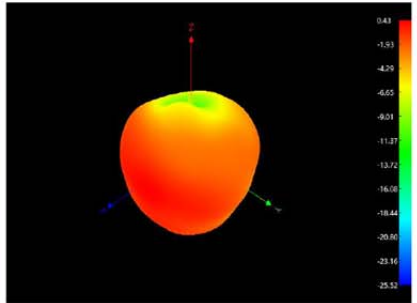
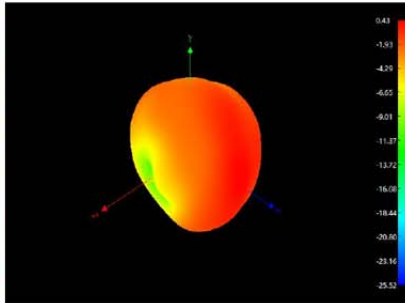
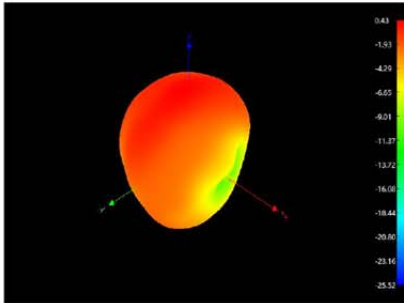
Theta 90 2D



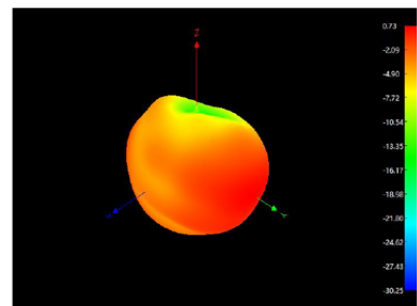
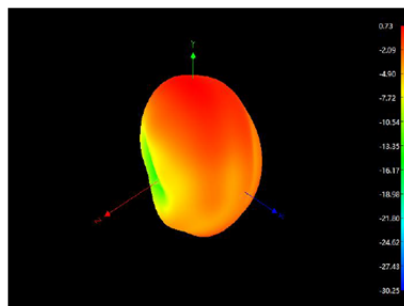
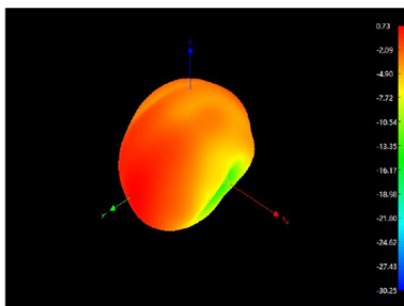
3D 600



3D 820

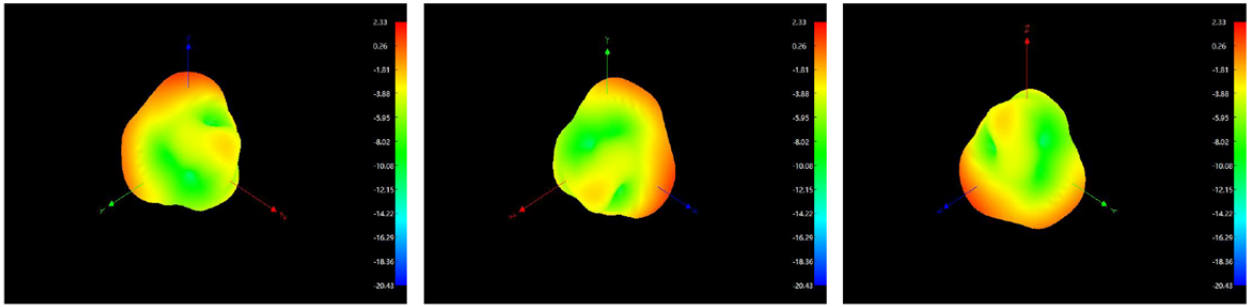


3D 960

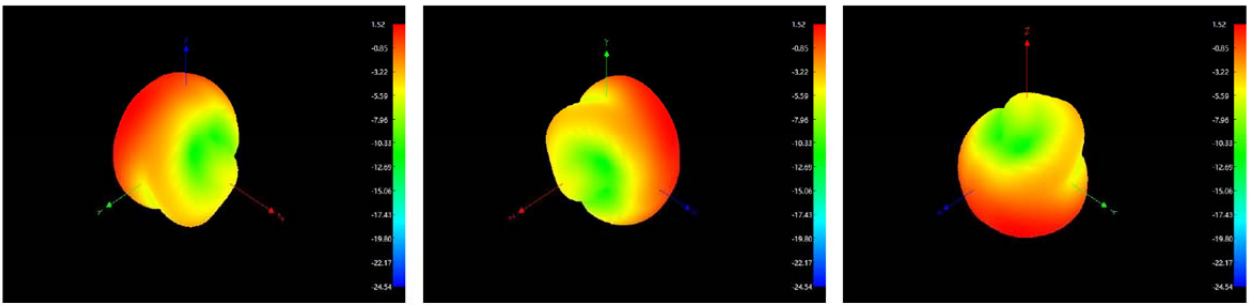




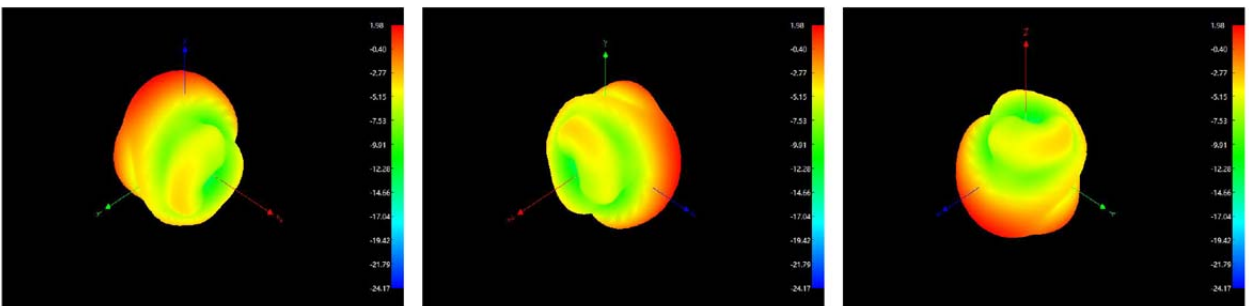
**3D 1710**



**3D 1920**



**3D 2160**



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