APPROVAL SHEET

CUSTOMER NAME	Shenzhen Zidoo Technology Co.,Ltd	
CUSTOMER P/N	H.DZ.SJ.TX.00037	
PART NAME	2.4G/5G black PCB built-in antenna 1.13 black wire L=245MM	
P/ N	YJC-6N245-B11	
APPROVAL REV.	A0	
DELIVERY DATE	March 22, 2025	
PREPARED BY	Yin Feijie	
CHECKED BY	Fang Wenfeng	
APPROVED BY	Chauhan	
Customer Approved		
Prepared By	Checked By	Approved By

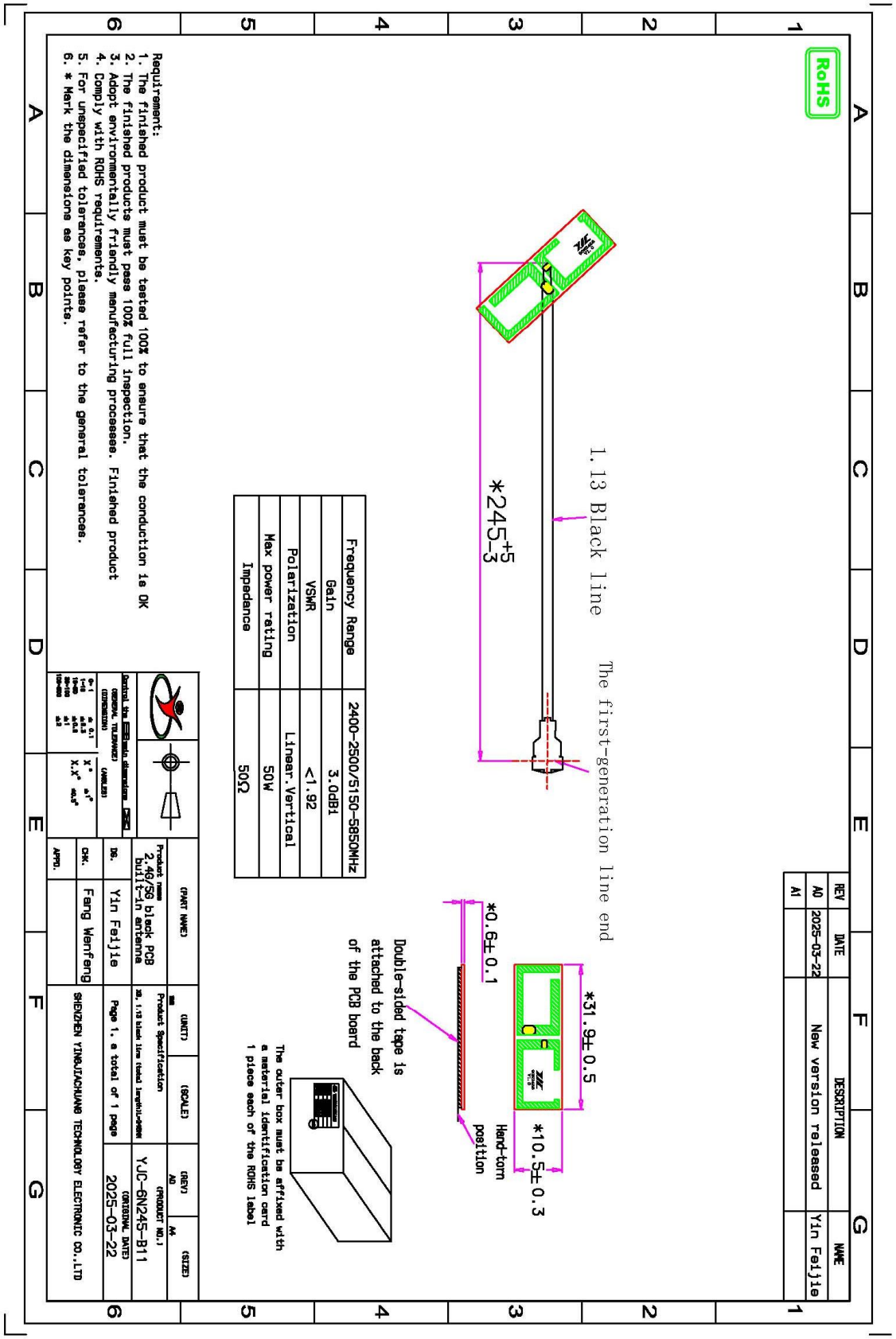
Address: Building C, Hongyu Guangming Valley, No. 11, Youma Gang Road, Ma Tian Street, Guangming District, ShenzhenDongguan Branch: Yingjiachuang Industrial Park, No. 2 Yinhe 3rd Road, Shishuikou, Qiaotou Town, Dongguan CityHangzhou Office: 212, Building B, Dahua Jianghong International Innovation Park, 369 Internet of Things Street, Binjiang District, HangzhouMianyang Office: No. 4F-34 Wanxiang High-tech International, No. 35 Mianxing East Road, Mianyang High-tech Zone, Sichuan Provincetelephone: 0755-27810060 fax: 0755-27810057 website: http://www.szsyjc.com

catalogue

Resume：

Version	Change content and reasons for the change	Date	Issue
A/0	First edition release	March 22, 2025	

Antenna floor plan：



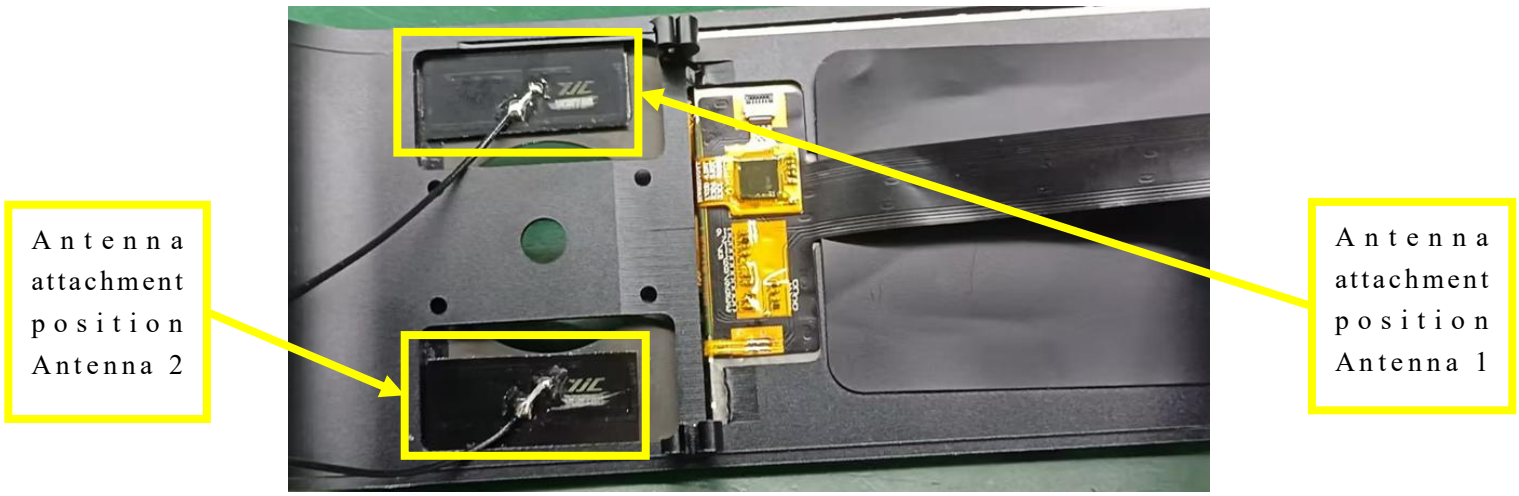
Antenna technical parameters and environmental testing:

Electrical technical parameter			
Electrical Specifications		Mechanical Specifications	
Frequency Range	2400-2500/5150-5850MHz	Wire Color	Black
VSWR	＜1.92	Input connector	XD
Input Impedance	50 Ω	Wire Length	245MM
Direction	All	Working Temperature	-20℃~+70℃
Gain	3.0dBi	Working Humidity	20%~80%

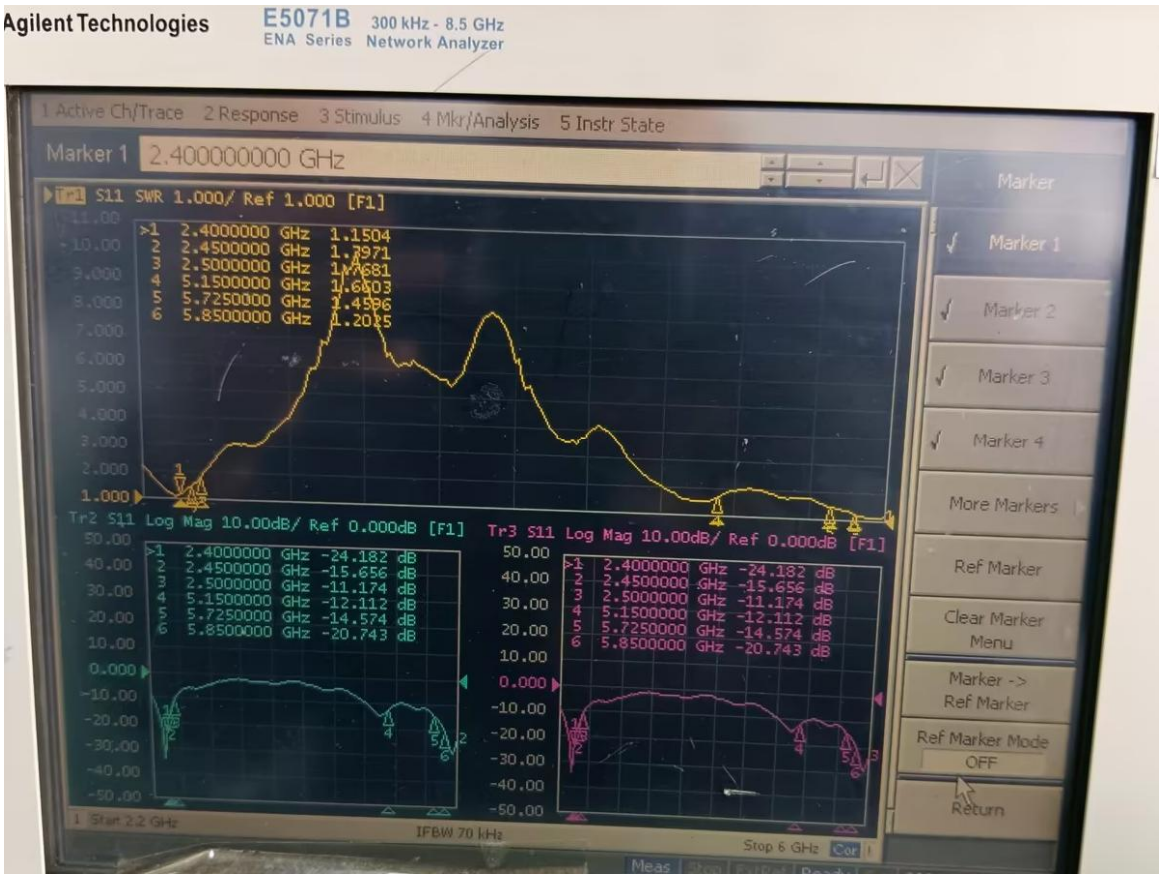
Environmental performance test:

Project	Test condition	Standard
Storage Conditions	In the absence of specified test temperature, humidity, air pressure is as follows:: 1. Temperature is - 30 ℃ ~ + 80 ℃ 2. Relative humidity of 45% to 45% 3. Air pressure is 86 kpa to 106 kpa	Electrical and mechanical performace is normal
High and low temperature test	Between 70 ℃ and -20 ℃ for 5 loops, then 1-2 h under normal conditions, check the appearance quality.	Size should meet the requirements and meet the performance of mechinery and electric.
Constant damp and hot resistance test	95 + / - 3% relative humidity, temperature test: 40 ℃. Lasts 2 h after, try to take out the determination of electrical properties, within 5 min after try 1-2 h under article normal thing, check the appearance quality	Size should meet the requirements and meet the performance of mechinery and electric.
vibration test	10-55 hz, vibration frequency range of displacement amplitude: 0.35 MM, acceleration amplitude: 50.0 M/S, sweep cycles: 30 times	Electrical and mechanical performace is normal
Fall down test	1 m high altitude in accordance with the perpendicular axis free drop 3 times	Electrical and mechanical performace is normal

The physical diagram of the antenna and the diagram of its attached position:



Antenna performance test diagram: Antenna 1

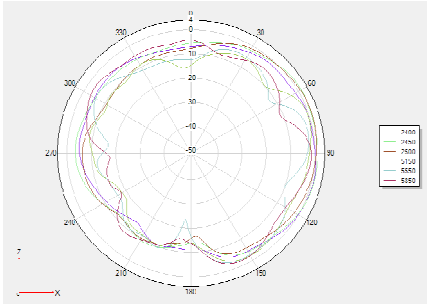


Antenna performance test diagram: Antenna 2

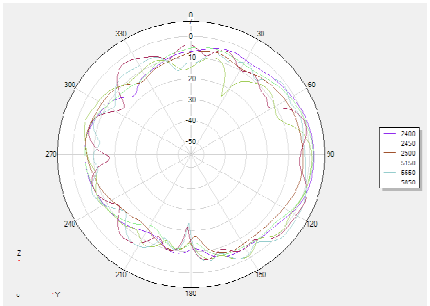
2D and 3D test data (2.4G/5G) : Antenna 1

Frequency	Efficiency (%)	Gain.(dBi)
2400MHz	57.65	1.82
2410MHz	52.42	1.76
2420MHz	52.75	1.59
2430MHz	50.05	1.64
2440MHz	52.7	1.67
2450MHz	55.88	1.95
2460MHz	56.37	1.87
2470MHz	56.89	1.64
2480MHz	56.02	1.82
2490MHz	57.83	1.77
2500MHz	57.96	1.83
5150MHz	46.81	3.11
5250MHz	50.07	3.02
5350MHz	51.14	3.09
5450MHz	46.79	2.89
5550MHz	46.96	2.7
5650MHz	47.53	3.21
5750MHz	51.54	2.95
5850MHz	48.33	2.86

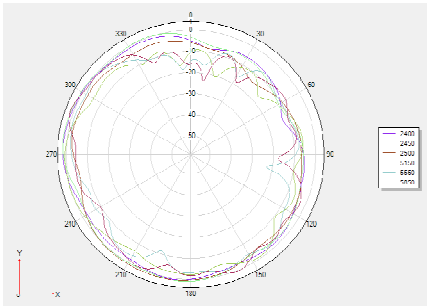
Phi 0 2D



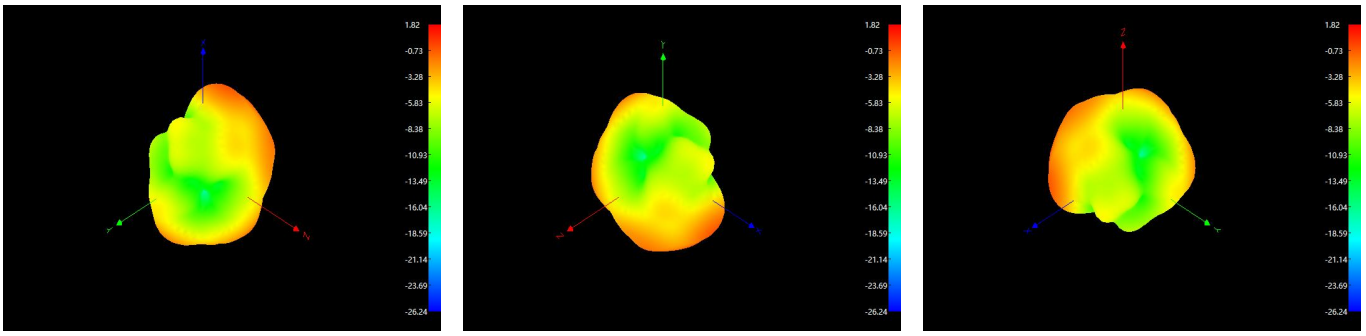
Phi 90 2D



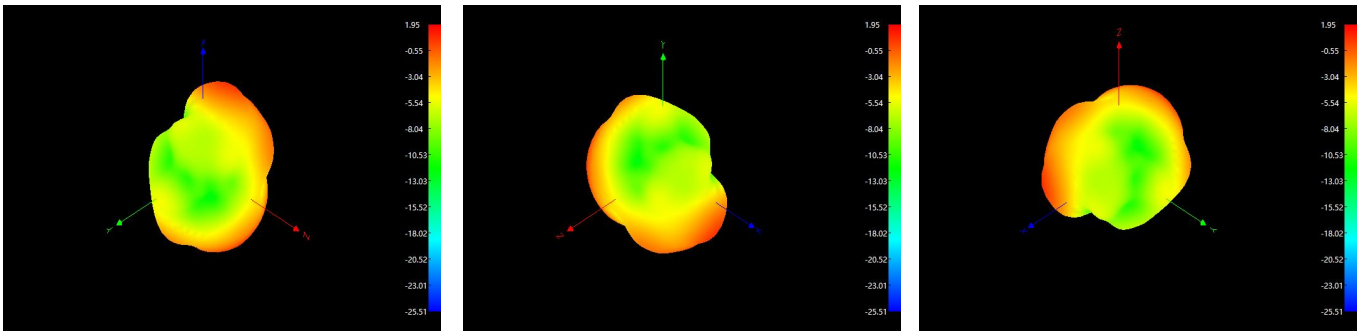
Theta 90 2D



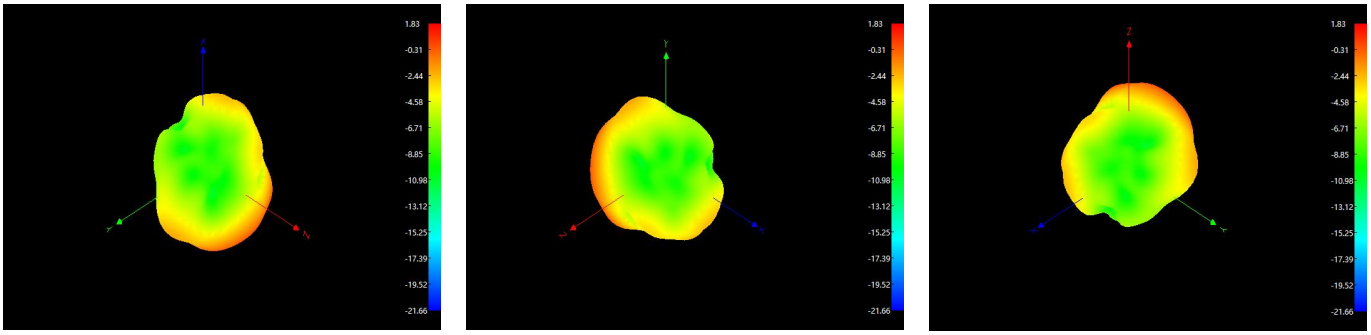
3D 2400：



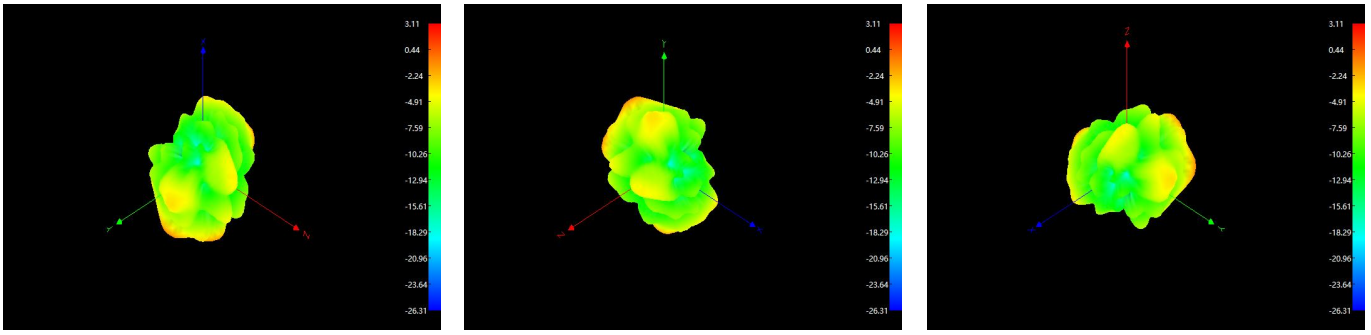
3D 2450：



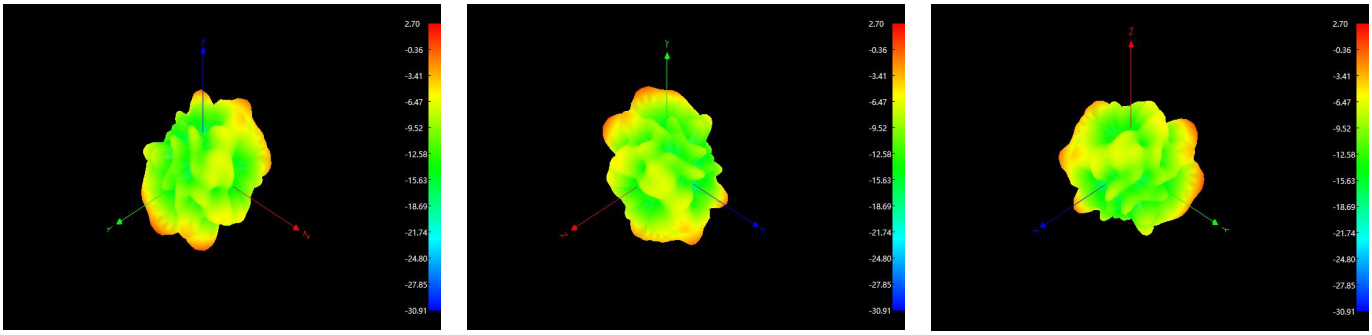
3D 2500：



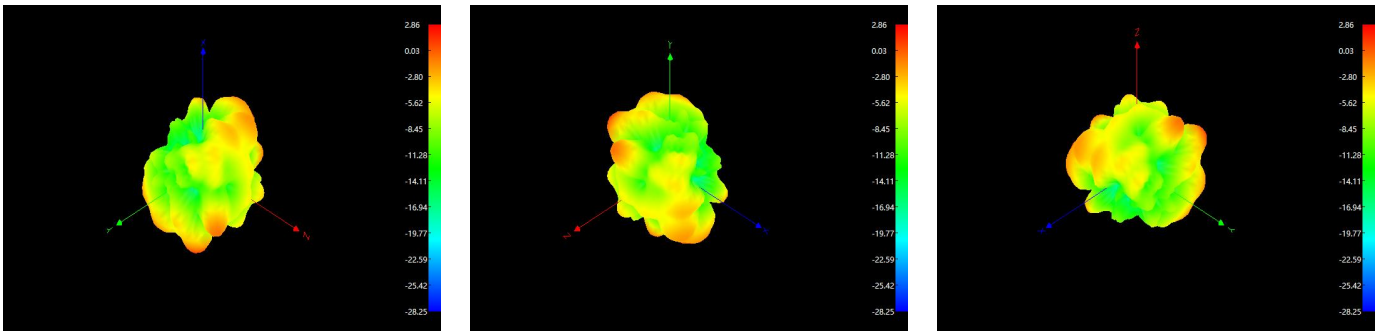
3D 5150：



3D 5550：



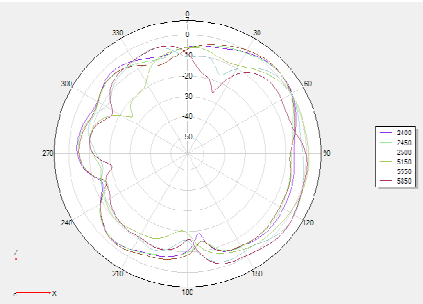
3D 5850：



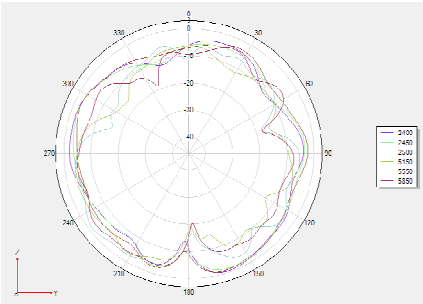
2D and 3D test data (2.4G/5G) : Antenna 2

Frequency	Efficiency (%)	Gain.(dBi)
2400MHz	55.1	1.93
2410MHz	56.86	1.88
2420MHz	59.61	1.76
2430MHz	53.75	1.64
2440MHz	56.86	1.91
2450MHz	56.57	1.89
2460MHz	55.23	1.68
2470MHz	55.68	1.69
2480MHz	54.88	1.73
2490MHz	52.46	1.85
2500MHz	54.81	1.9
5150MHz	47.98	3.19
5250MHz	47.72	3.21
5350MHz	48.09	3.1
5450MHz	50.53	2.87
5550MHz	49.95	2.97
5650MHz	49.54	2.81
5750MHz	46.45	2.98
5850MHz	44.98	2.93

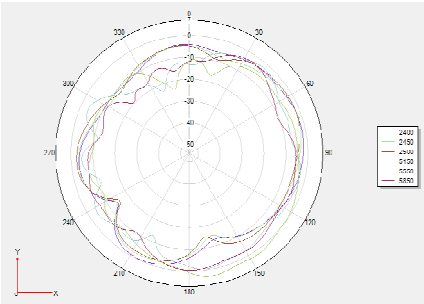
Phi 0 2D



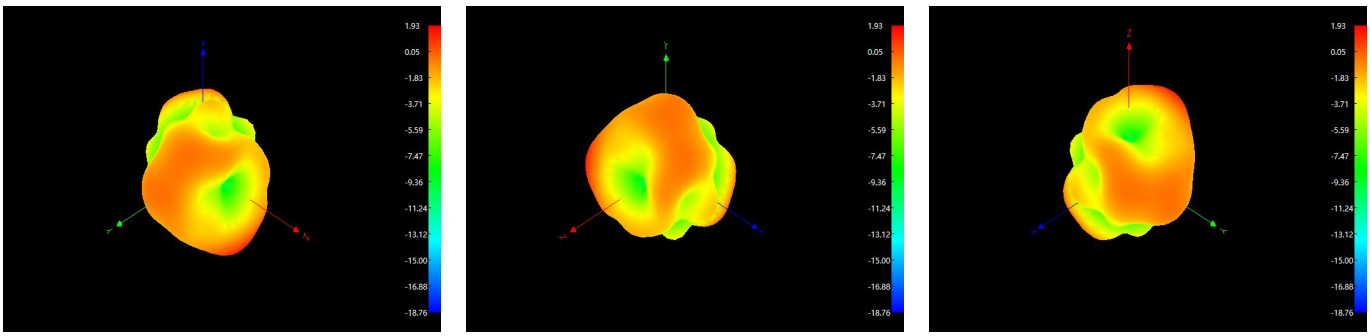
Phi 90 2D



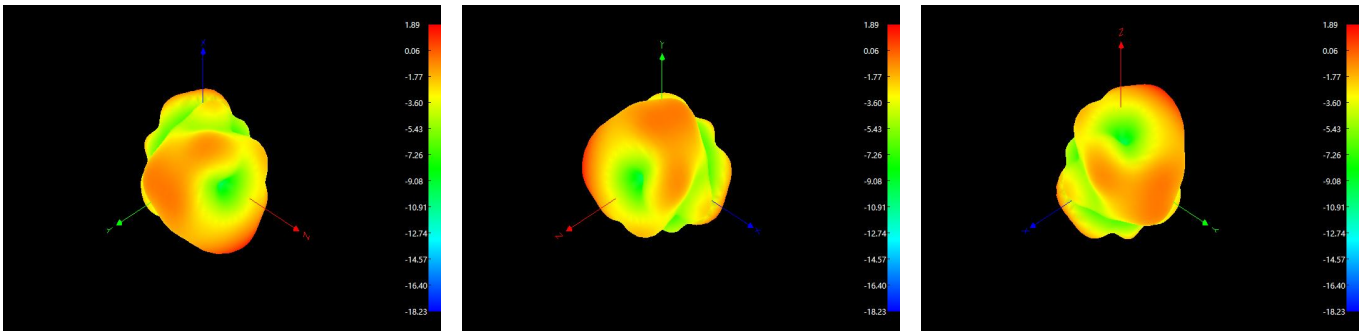
Theta 90 2D



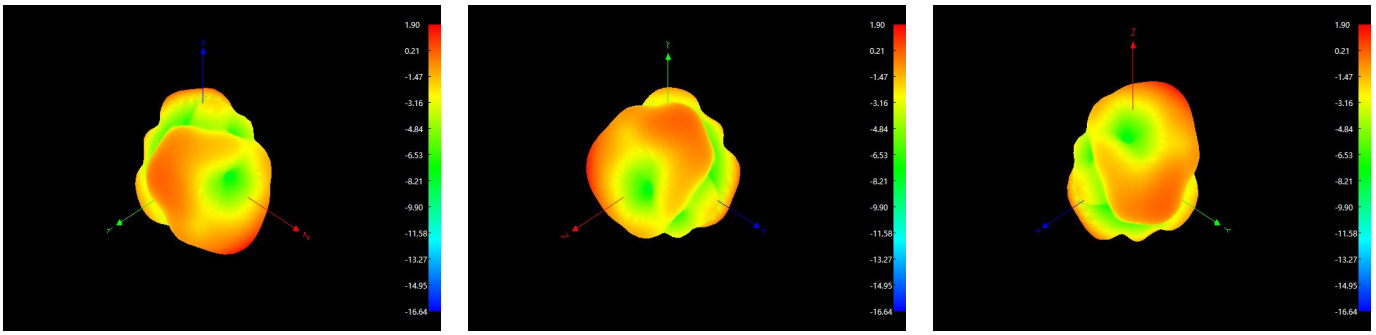
3D 2400：



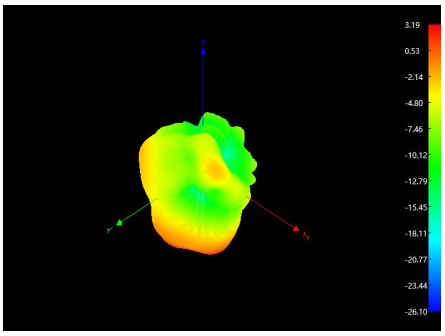
3D 2450：

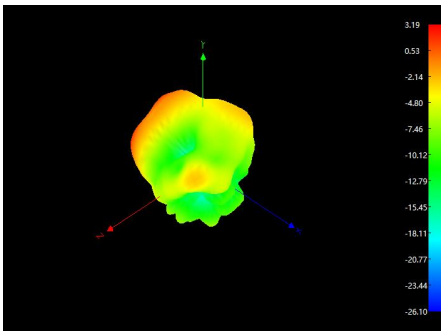


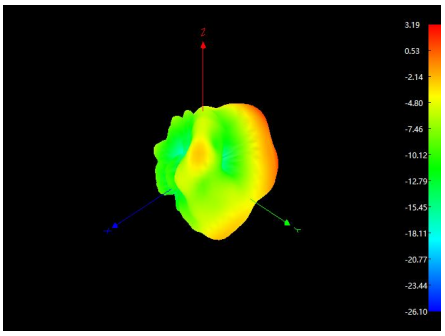
3D 2500：



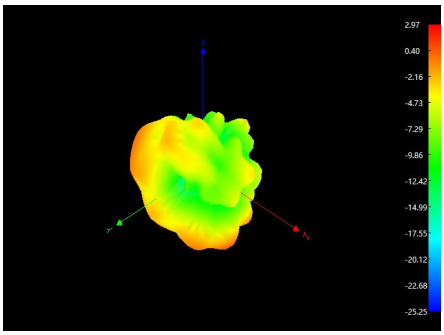
3D 5150:

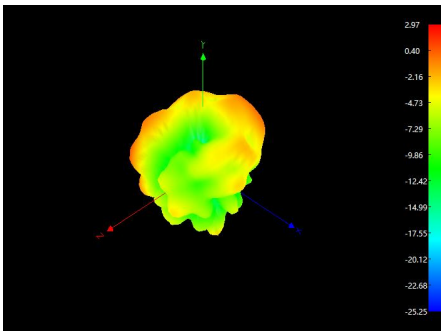


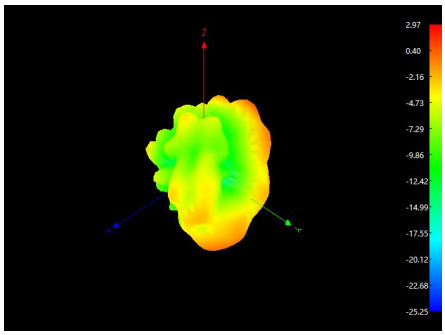




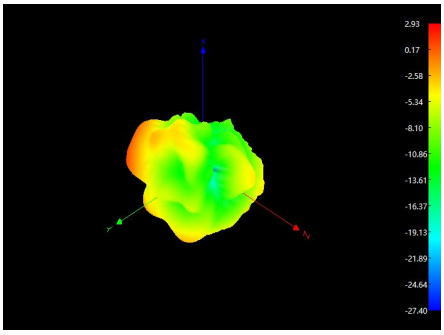
3D 5550:

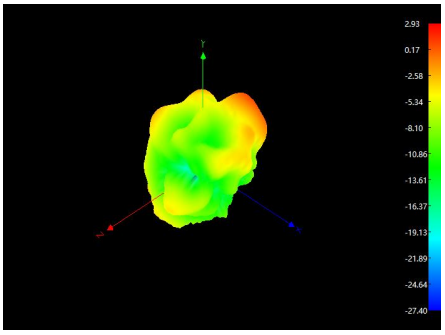


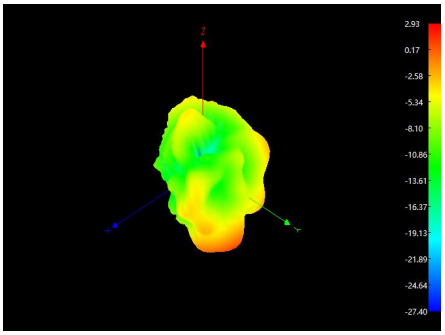




3D 5850:







Material RoHS conformity declaration form

This is to certify that the delivery to your company's components, raw materials, auxiliary materials used and the additives in the production engineering are accord with RoHS environmental requirements of the restrictions on the use of hazardous substances directive (RoHS directive 2011/65 / EU)

About components used raw materials, packaging materials, auxiliary materials and additives used in the production process such as composition of the report is as follows:

Component /Part Name	Material Composition	ICP report #	Test Org.	Test Date	Content of harmful substances (ppm)						PASS?
					Cd	Pb	Hg	Cr $^{6+}$	PBB	PBDE	PASS
Wire rod	Coaxial cable	NGBPC24007471212	SGS	24/12/23	ND	ND	ND	ND	ND	ND	PASS
Terminal	Phosphor bronze	CANEC24029407216	SGS	25/01/08	ND	4	ND	ND	ND	ND	PASS
	Gold coating	A2240410234101001E	CTI	24/07/16	ND	ND	ND	ND	ND	ND	PASS
	Rubber core	ETR24705722	CTI	24/08/05	ND	ND	ND	ND	ND	ND	PASS
Environmentally friendly tin wire	Environmentally friendly tin wire	SHAEC24006459102	SGS	24/04/10	ND	78	ND	ND	ND	ND	PASS
PCB	PCB	CANEC24019790710	SGS	24/09/14	ND	17	ND	ND	ND	ND	PASS
3M	3M9448A	CANEC24028865442	SGS	25/01/03	ND	14	ND	ND	ND	ND	PASS