



APPROVAL SHEET

Acknowledgement

CUSTOMER NAME Customer Name	Shenzhen Ptery Network Tech Co., Ltd.	
CUSTOMER P/N		
PART NAME	2.4G/5G built-in metal antenna	
P/N P / N	YJC-6N000-B638	
APPROVAL REV. Order of the edition	A0	
DELIVERY DATE Sample delivery date	23 May 2025	
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Customer Approved Customer admission		
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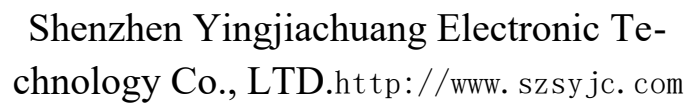
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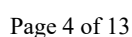


Curriculum VITAC :

Edition	Change content and reason	Date	Sell wholesale
A0	First edition release	23 May 2025	



Product Layout:





Antenna Technical Parameters and Environmental Test

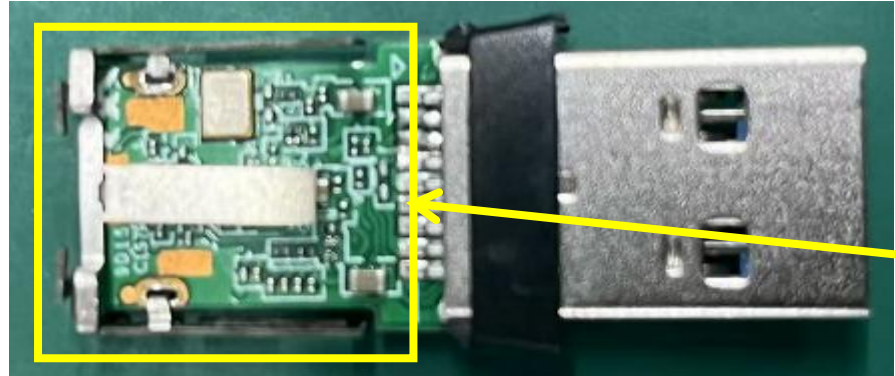
Electrical technical parameters			
Electrical PROPERTIES		Electrical Specifications	
Frequency range	2400-2500/5150-5850MHz	Frequency Range	2400-2500/5150-5850MHz
Voltage Standing Wave Ratio Antenna 1	<2.5	VSWR Antenna 1	<2.5
Voltage Standing Wave Ratio Antenna 2	<2.0	VSWR Antenna 2	<2.0
Input impedance	50 Ω	Input Impedance	50 Ω
Direction	Omnidirectional	Direction	All
Gain antenna 1	3.0dBi	Gain Antenna 1	3.0dBi
Gain antenna 2	2.0dBi	Gain Antenna 2	2.0dBi
Mechanical INDICATORS		Mechanical Specifications	
Wire material	304 stainless steel	Wire material	304 Stainless steel
Interface form	OP	Input connector	OP
Working temperature	-20℃~+70℃	Working Temperature	-20℃~+70℃
Working humidity	20~80%	Working Humidity	20~80%

Environmental performance test:

Project	Test condition	Specifications
Storage environment	Test temperature, humidity, and air pressure as follows unless otherwise specified: 1. Temperature range: -20℃ to +70℃ 2. Relative humidity ranges from 45% to 85%. 3. The air pressure ranges from 86 kPa to 106 kPa.	Electrical machinery performance is normal
Thermocycling	Perform 5 cycles between 70℃ and -20℃, then inspect the appearance quality under normal conditions for 1-2 hours.	The dimensions shall comply with the specified requirements and meet the mechanical and electrical performance standards.
Constant humidity and temperature test	Relative humidity: 95±3%, test temperature: 40℃. After continuous exposure for 2 hours, electrical properties were measured within 5 minutes after specimen removal. Under normal conditions, the specimen was inspected for 1-2 hours to assess appearance quality.	The dimensions shall comply with the specified requirements and meet the mechanical and electrical performance standards.
Vibration test	Frequency range: 10-55 Hz, Displacement amplitude: 0.35 mm, Acceleration amplitude: 50.0 m/s, Number of frequency sweep cycles: 30	Electrical machinery performance is normal
Fall-down test	1M free fall from a height of 1 meter in three perpendicular axes	Electrical machinery performance is normal

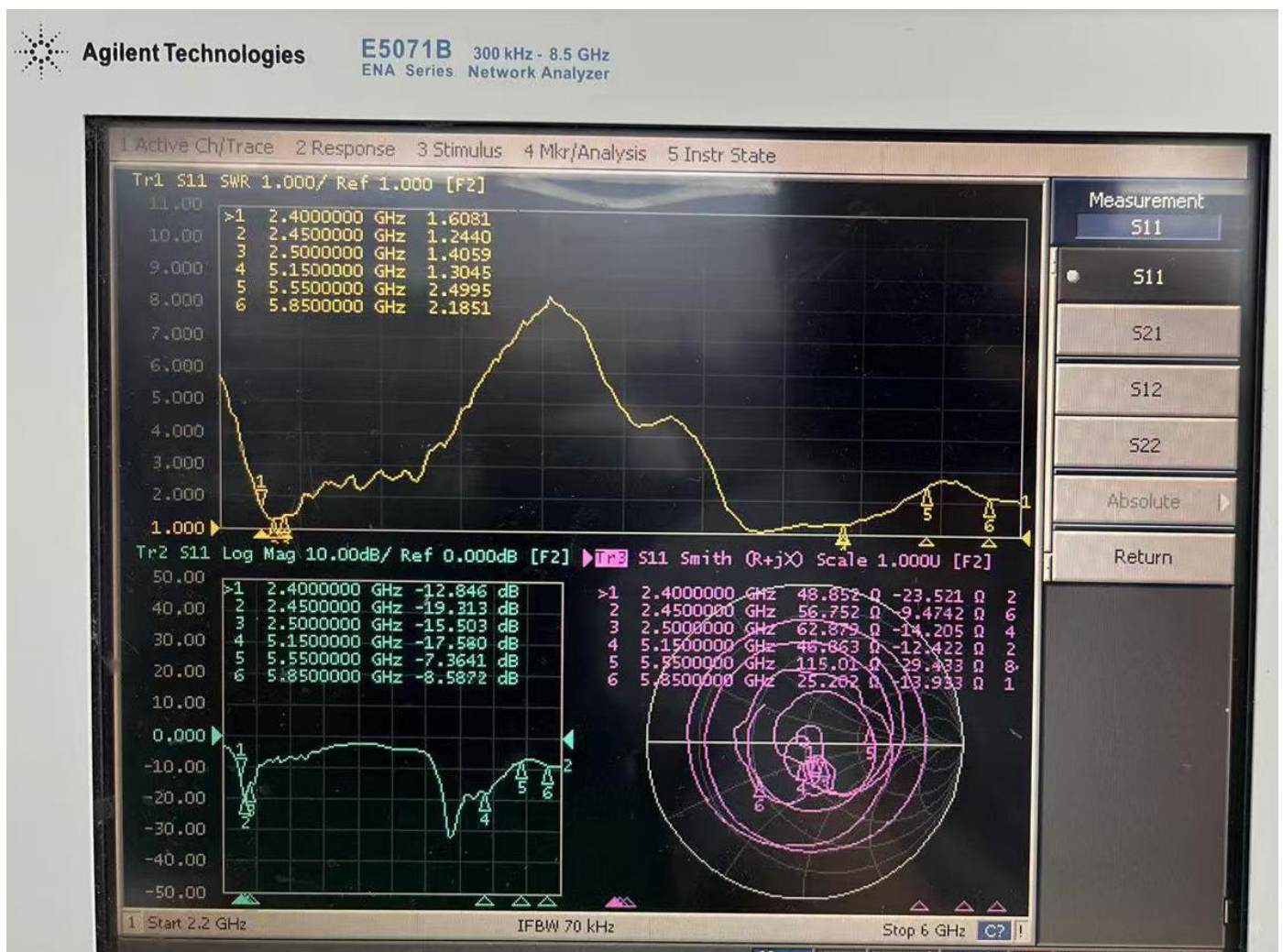


Antenna Physical Image and Location Map:



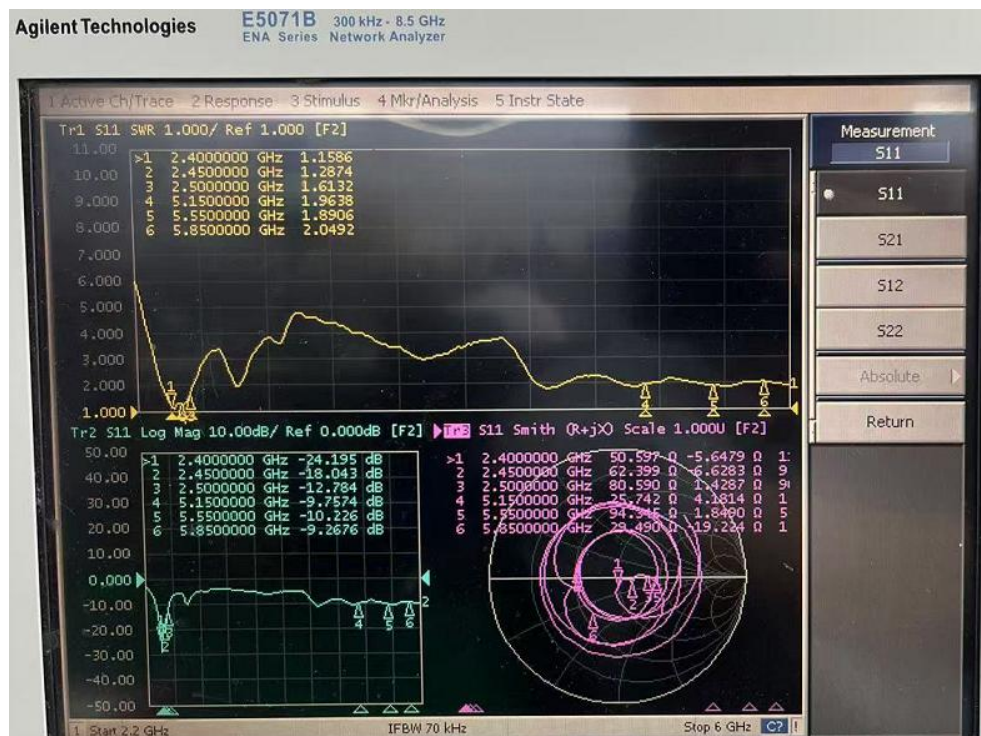
antenna APPORTION

Antenna Performance Test Diagram: Antenna 1





Antenna performance test diagram: Antenna 2

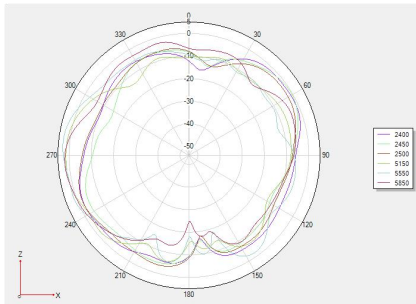


2D.3D Test Data (2.4G/5G): Antenna 1

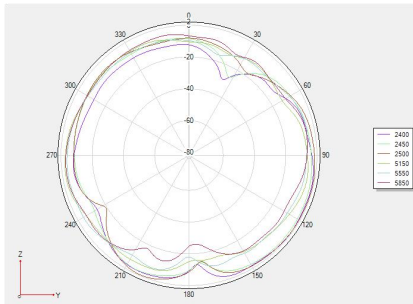
Frequency	Efficiency (%)	Gain. (dBi)
2400MHz	31.65	-0.31
2410MHz	32.66	0.36
2420MHz	34.06	0.28
2430MHz	33.95	0.41
2440MHz	34.68	0.38
2450MHz	34.78	0.42
2460MHz	33.78	0.4
2470MHz	33.83	0.37
2480MHz	32.84	0.43
2490MHz	32.13	0.39
2500MHz	31.18	0.43
5150MHz	34.83	2.86
5250MHz	31.77	2.55
5350MHz	35.32	2.69
5450MHz	36.39	1.96
5550MHz	35.73	3.21
5650MHz	33.79	2.64
5750MHz	32.17	2.74
5850MHz	32.51	2.13



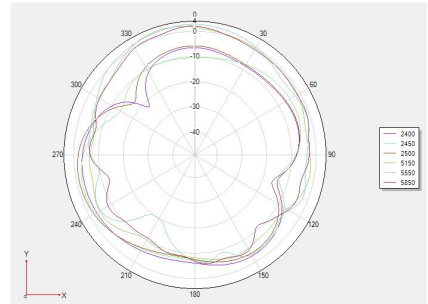
Phi02D graph



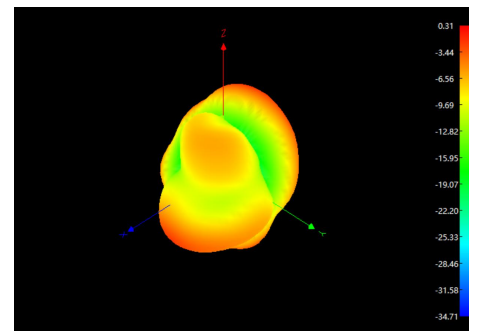
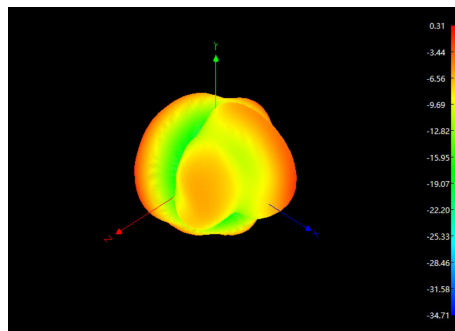
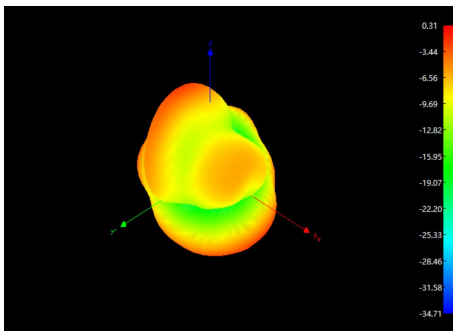
Phi902D graph



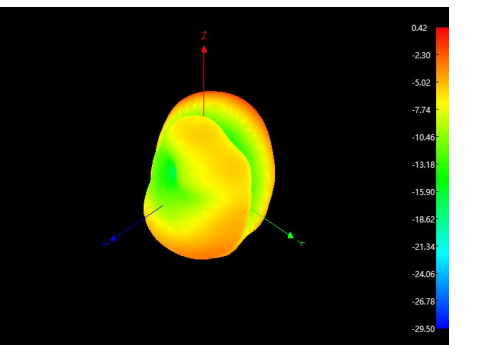
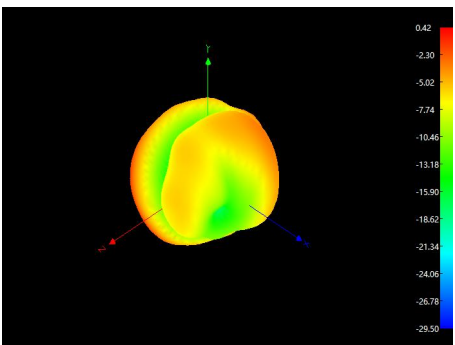
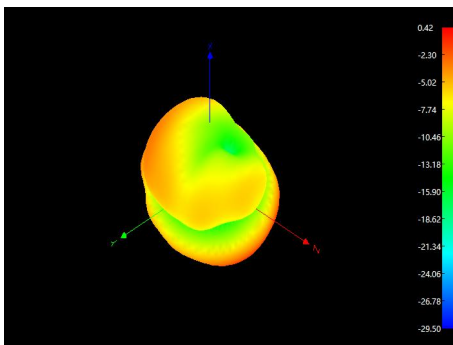
Theta902D graph



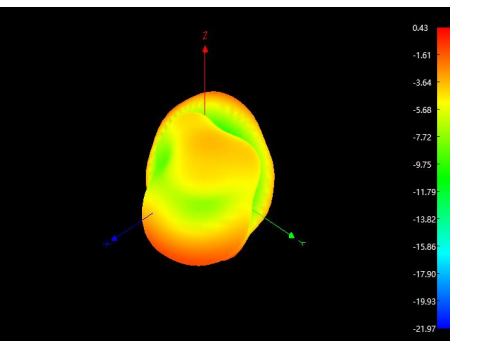
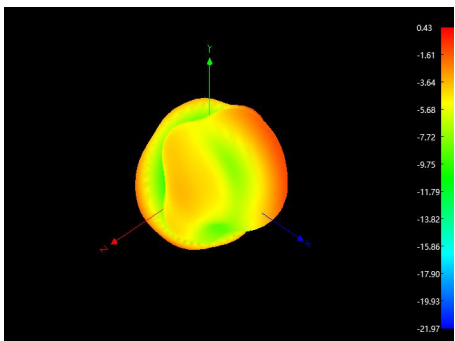
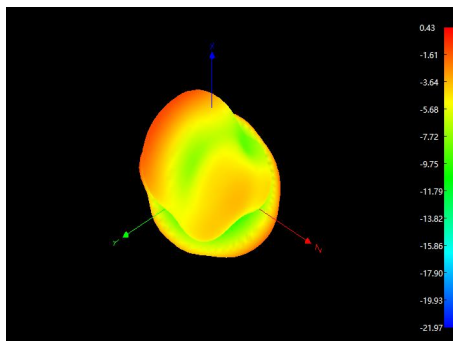
3D 2400:



3D 2450:

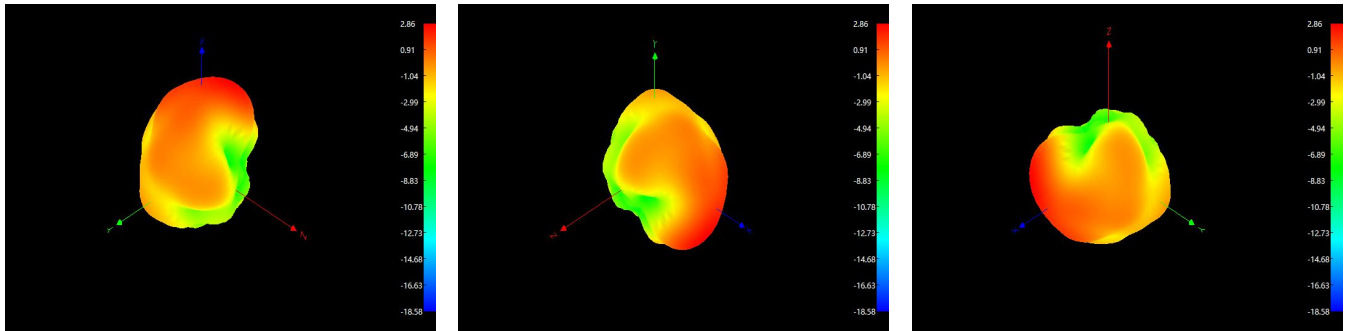


3D 2500:

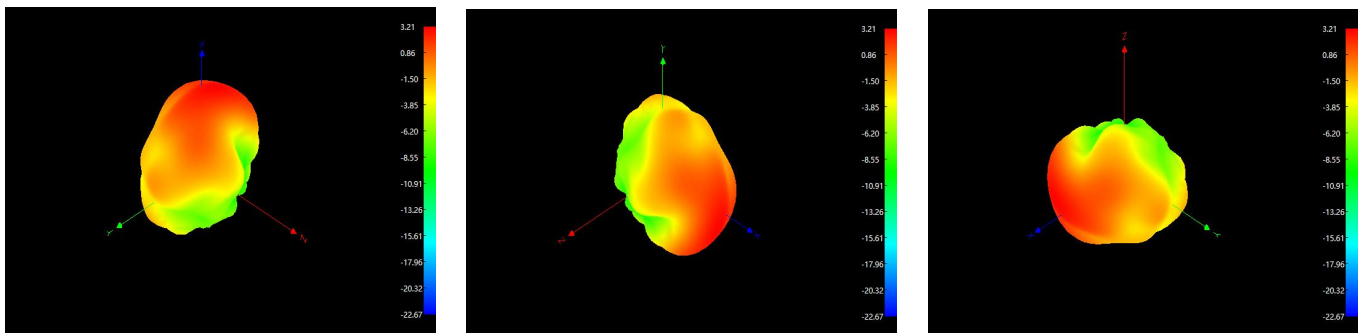




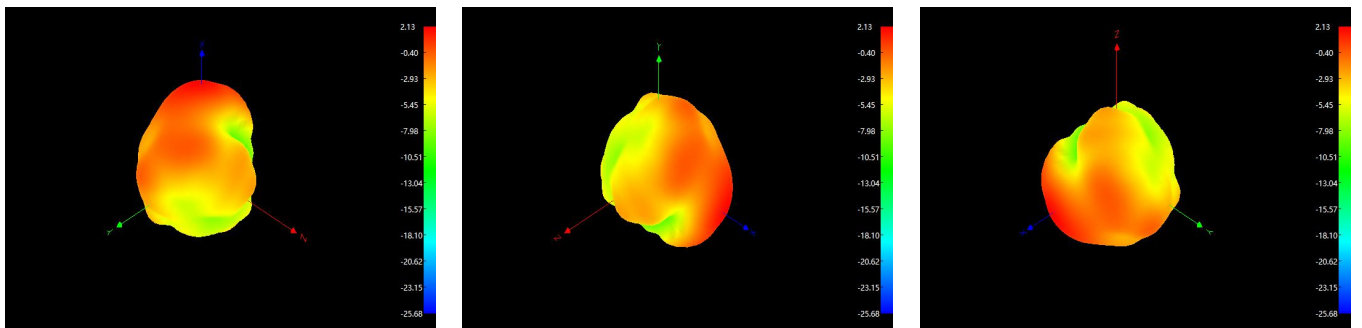
3D 5150:



3D 5550:



3D 5850:

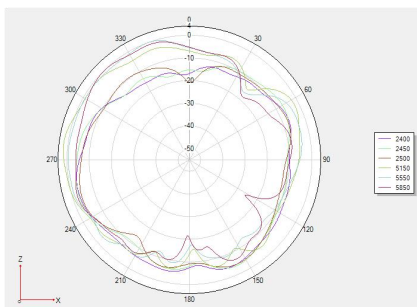




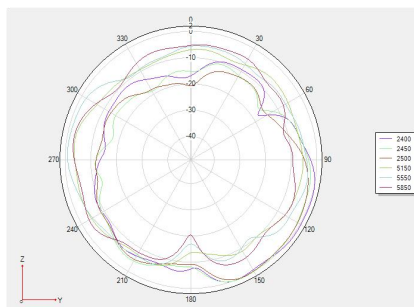
2D.3D Test Data (2.4G/5G): Antenna 2

Frequency	Efficiency (%)	Gain. (dBi)
2400MHz	34.12	0.61
2410MHz	34.06	0.66
2420MHz	33.68	0.64
2430MHz	32.48	0.26
2440MHz	34.49	0.53
2450MHz	34.68	0.49
2460MHz	34.27	0.45
2470MHz	34.46	0.67
2480MHz	35.06	0.21
2490MHz	33.76	0.31
2500MHz	33.05	0.38
5150MHz	41.69	2.2
5250MHz	41.88	2.51
5350MHz	40.36	1.84
5450MHz	40.18	1.81
5550MHz	37.33	1.17
5650MHz	34.12	1.72
5750MHz	34.04	1.8
5850MHz	32.36	1.66

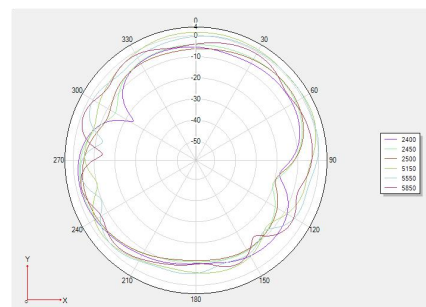
Phi02D graph



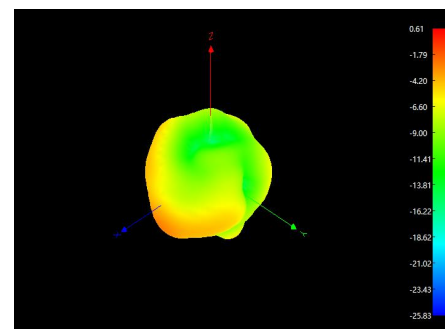
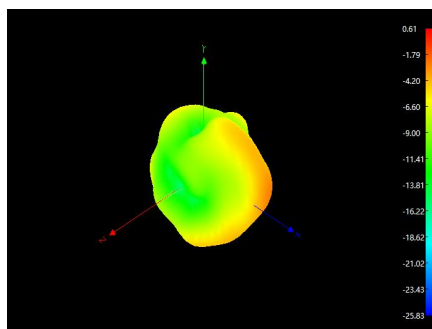
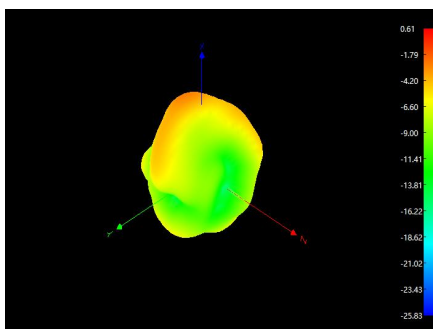
Phi902D graph



Theta902D graph

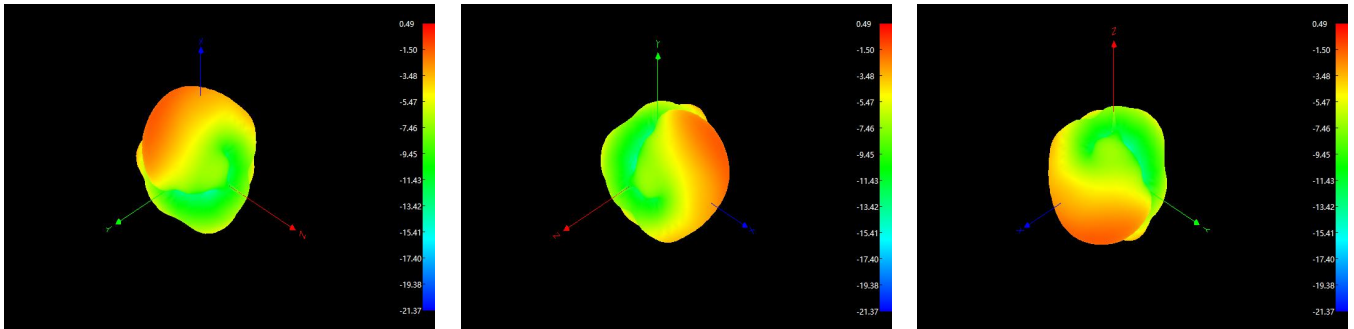


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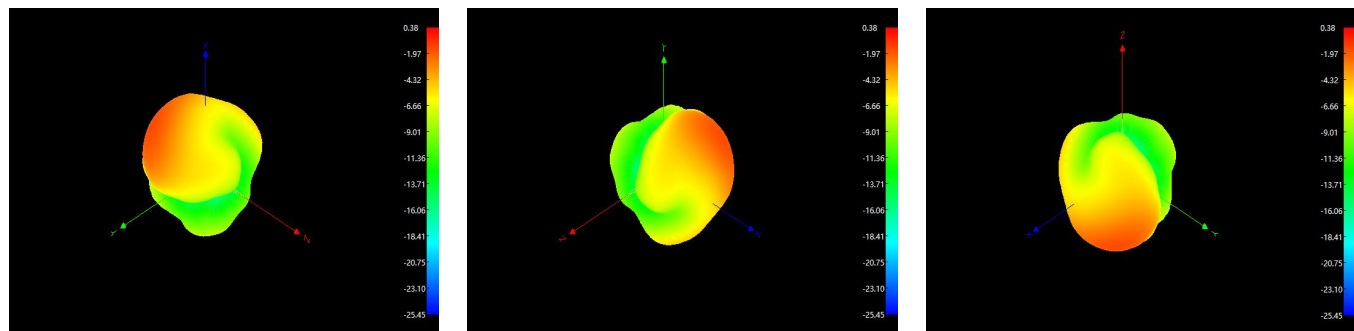




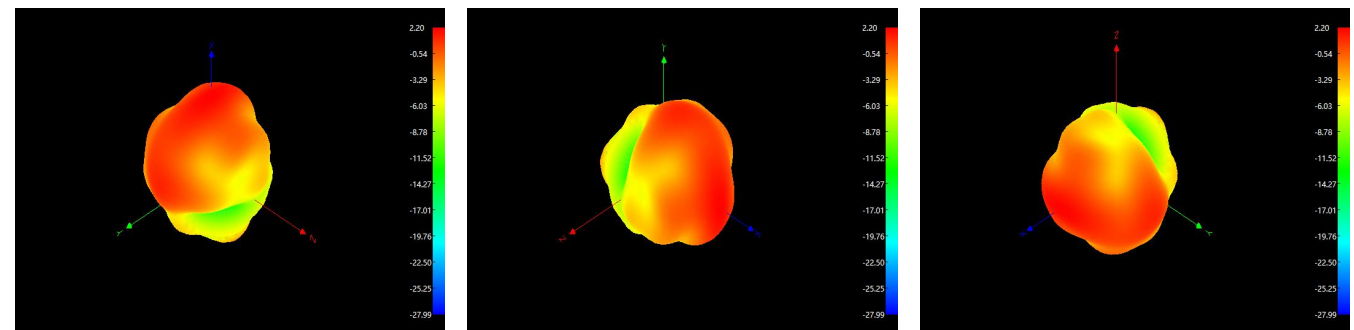
3D 2450:



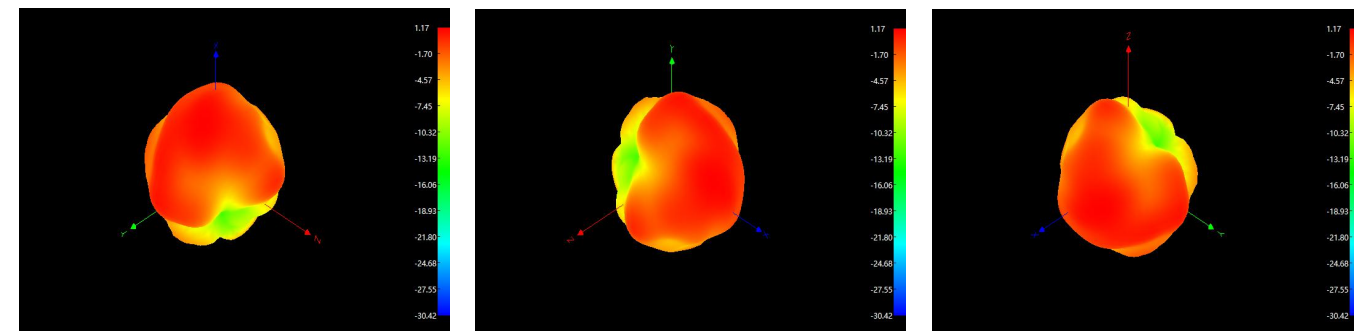
3D 2500:



3D 5150:

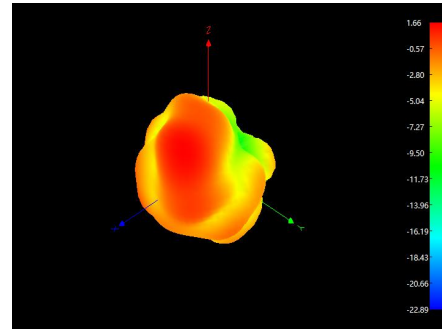
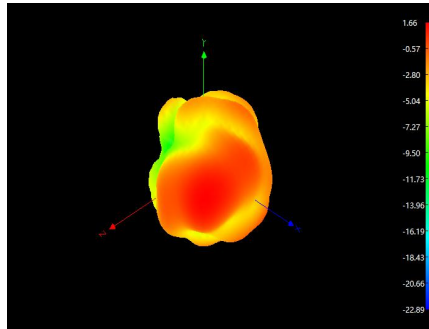
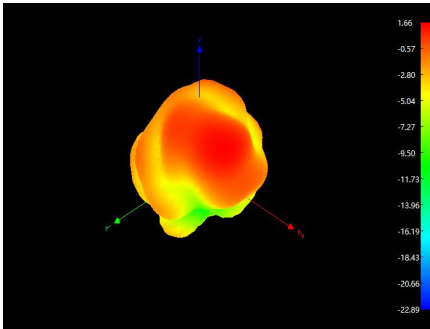


3D 5550:





3D 5850:





Material RoHS COMPLIANCE STATEMENT FORM

We hereby certify that all raw materials used in the components and auxiliary materials delivered to your company, as well as additives in the production process, comply with the environmental requirements of the RoHS Directive on the Restriction of Hazardous Substances (Directive 2011/65/EC).

The composition of raw materials used for components and auxiliary materials, packaging materials, and additives used in the production process is reported as follows:

Material name /Part Name	Component material Composition	ICP report number	Test Org.	Test Time	Carcinogen content (ppm)						Is it qualified? PASS?
					Cd	Pb	Hg	Cr ⁶⁺	PBB	PBDE	PASS
Hardware	Stainless steel	SHAPH25006134216	SGS	25/03/28	ND	ND	ND	ND	ND	ND	PASS