

ShenZhen VLG Wireless Technology Co.,Ltd

Acknowledgment

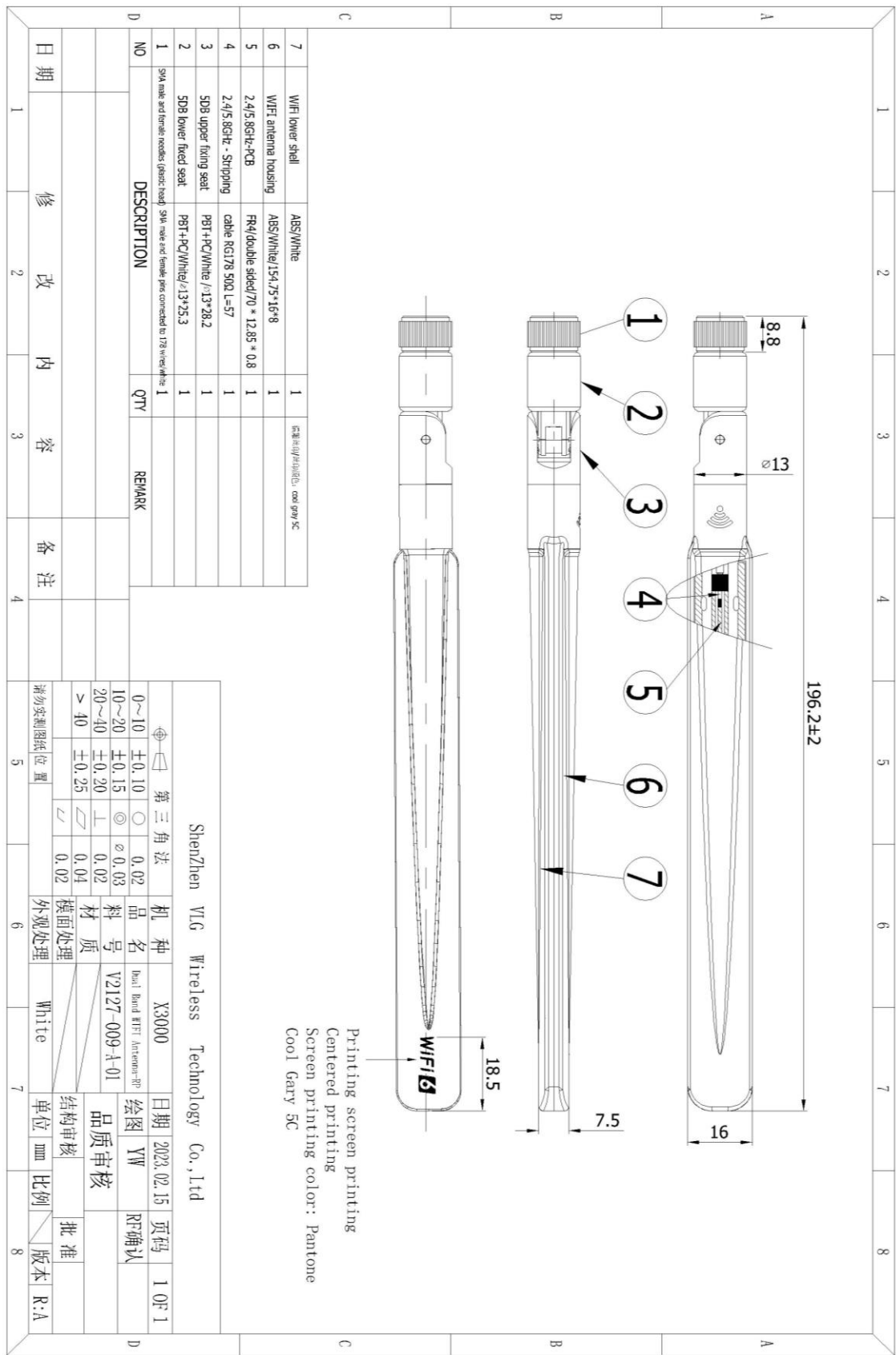
Customer/Project Name	广联智通/GL-XE3000NR			Frequency range	2400-2500/5150-5850MHz		
VLG Item No	V2127-009-A-01			Edition	A		
RF	LLM	确认		DQE	余洪	确认	
ME	YW			PM	莫巨洪		
Date	2023.3.14						
Customer Projects Name Item No	Customer Project Name:						
	Customer Project Number:						
Customer confirmation							
RF				DQE			
ME				PM			
Date							
Customer Satisfaction Survey on R&D Projects (Please provide a comment on the work of our R&D or PM management personnel to urge us to better serve you)							
RF artisan	☐ Satisfied		☐ Basically satisfied		☐ Dissatisfied		
ME artisan	☐ Satisfied		☐ Basically satisfied		☐ Dissatisfied		
Project management (PM management personnel)	☐ Satisfied		☐ Basically satisfied		☐ Dissatisfied		
Suggested Item Description:							
Antenna picture:							

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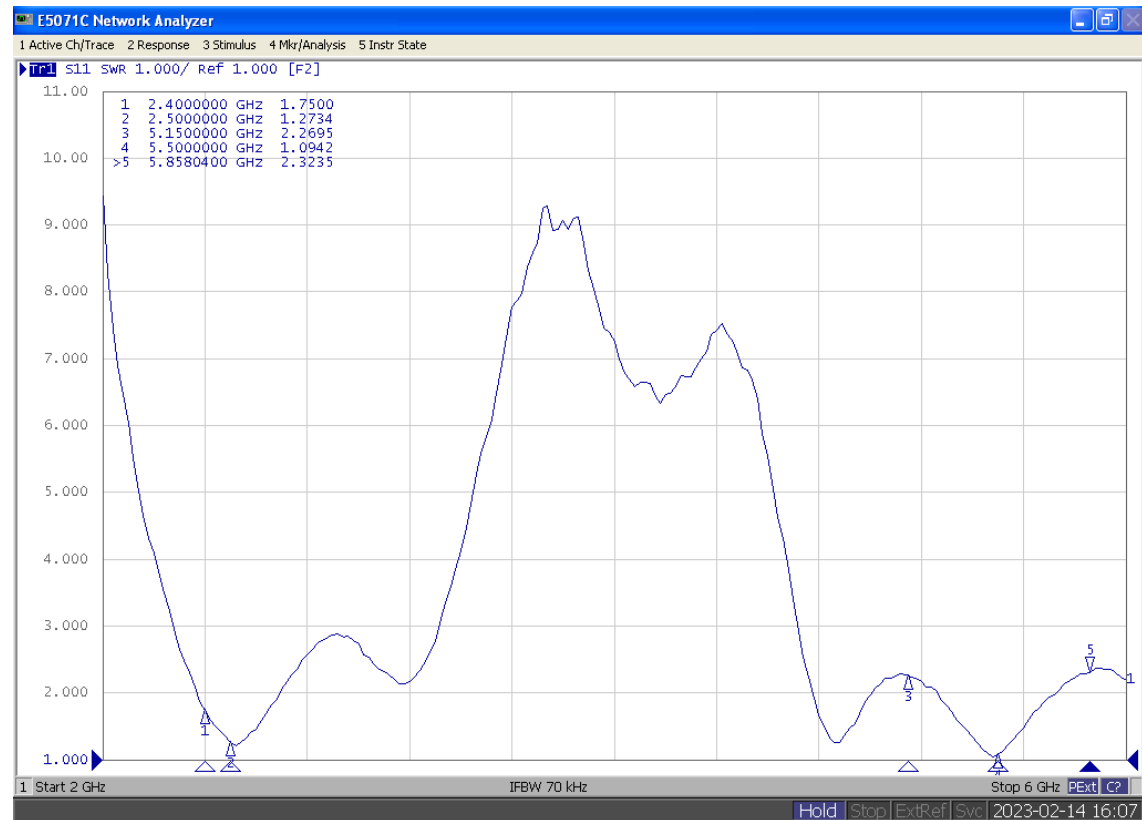
3、产品图面(Product Picture)



4、产品规格描述 (Product specification describes)

电气参数 (Parameter)	
频率范围 (Frequency)	2400-2500/5150-5850MHz
带宽 (Bandwidth)	/
输入阻抗 (Impedance)	50 Ω
驻波比 (VSWR)	<2.0 / <2.5
增益 (Gain)	$\leq 1.6\text{dBi}$ / $\leq 2.5\text{dBi}$
最大效率 (Max. Efficiency)	$\leq 59\%$ / $\leq 32\%$
极化方式 (Polarization)	Linear polarization/Vertical
辐射方向图 (Radiation pattern)	Omni-directional
接口类型 (Connector)	RP-SMA
机械参数 (Mechanical Parameter)	
总长 (Length)	196.2mm
盐雾测试 (Salt Spray Test)	48H
环境参数 (Environment Parameter)	
工作温度 (Operation Temperature)	-20 $^{\circ}\text{C}$ ~65 $^{\circ}\text{C}$
储藏温度 (Storage Temperature)	-20 $^{\circ}\text{C}$ ~75 $^{\circ}\text{C}$

5、电气性能测试报告(Radiation Report)



效率及增益(Efficiency And Gain)

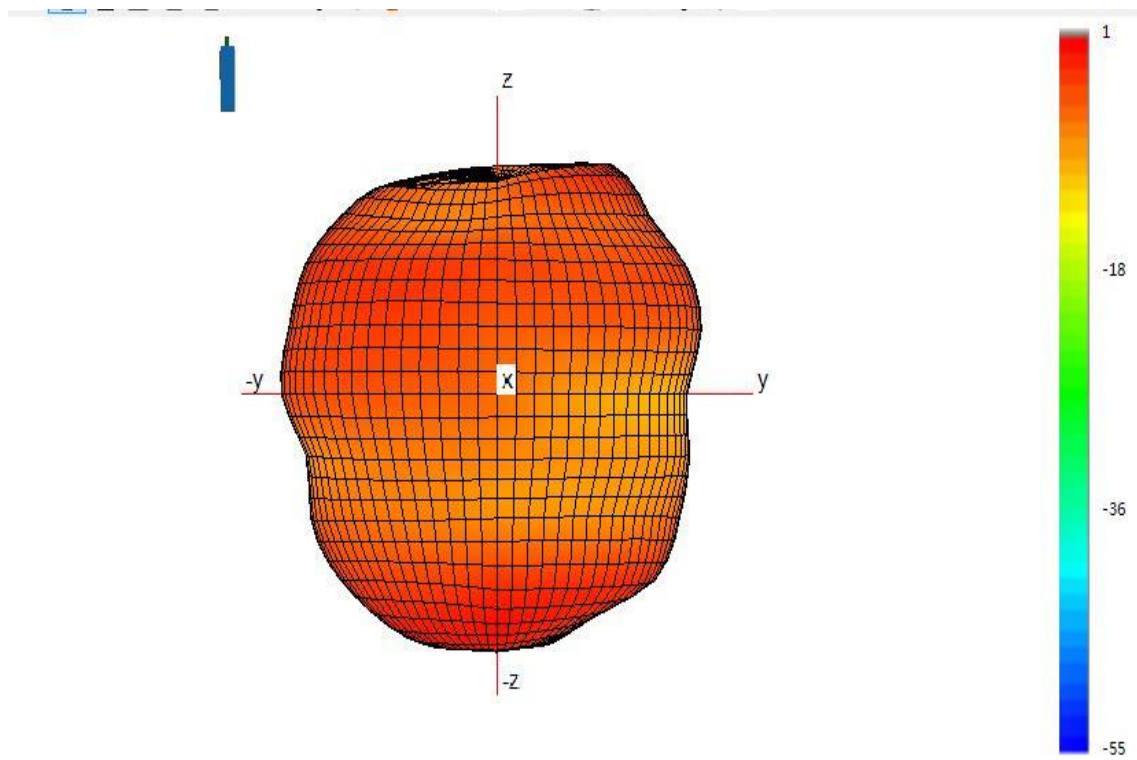
Frequency	Efficiency	Gain
2400	56%	1.47
2410	57%	1.5
2420	57%	1.5
2430	57%	1.63
2440	58%	1.52
2450	59%	1.53
2460	59%	1.54
2470	59%	1.55
2480	59%	1.58
2490	58%	1.53
2500	57%	1.57

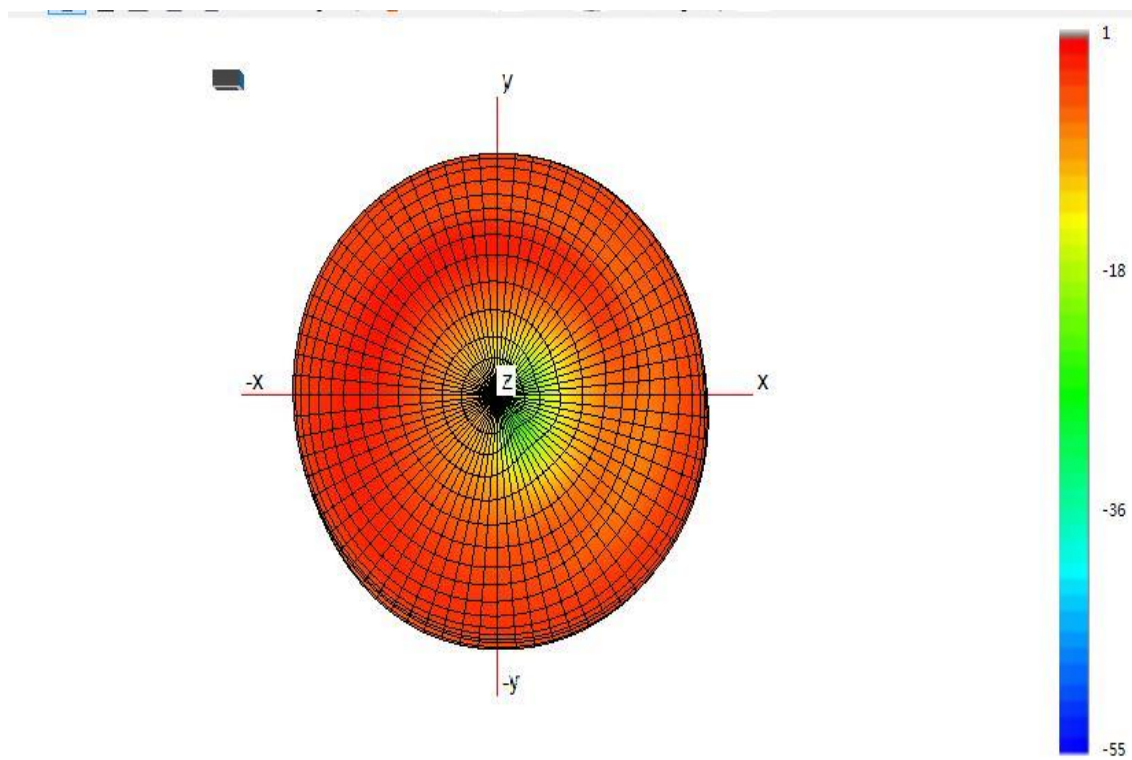
5150	29%	2.3
5200	32%	2.5
5250	32%	2.1
5300	31%	2.0

5350	31%	2.0
5400	30%	2.0
5450	30%	2.0
5500	31%	1.7
5550	31%	1.6
5600	32%	1.8
5650	30%	1.7
5700	31%	1.8
5750	30%	1.7
5800	30%	1.7
5850	30%	2.1

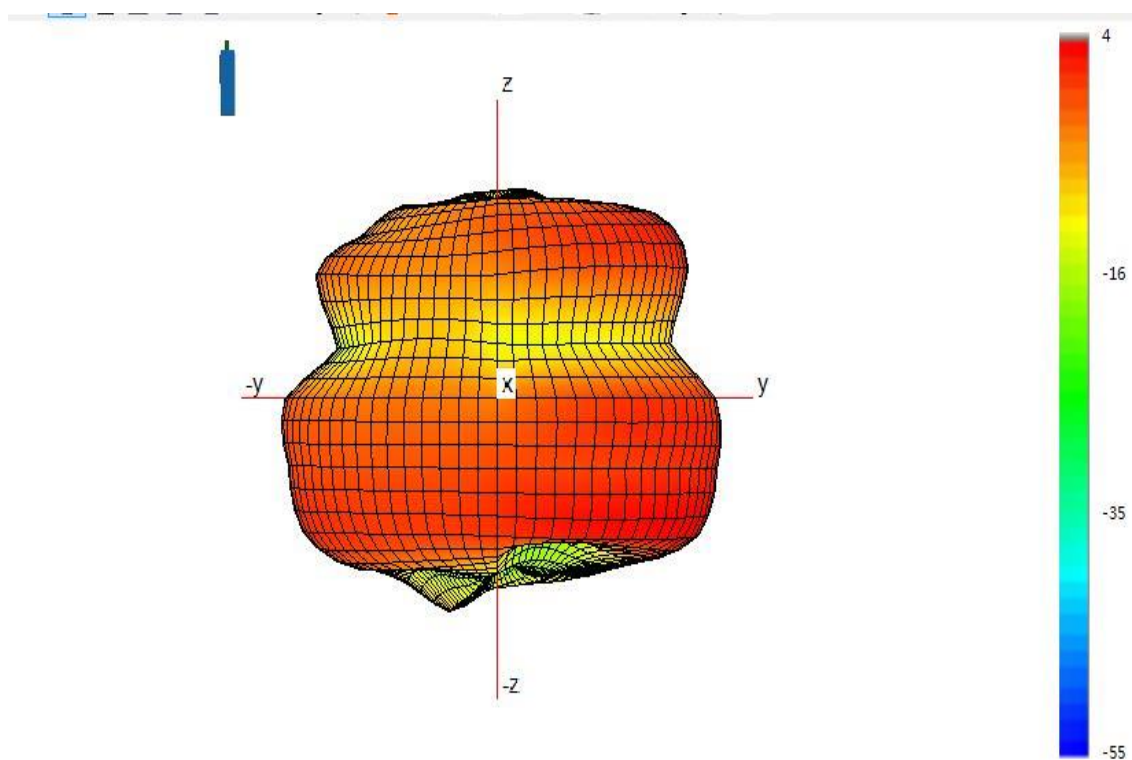
24400-2500MHz

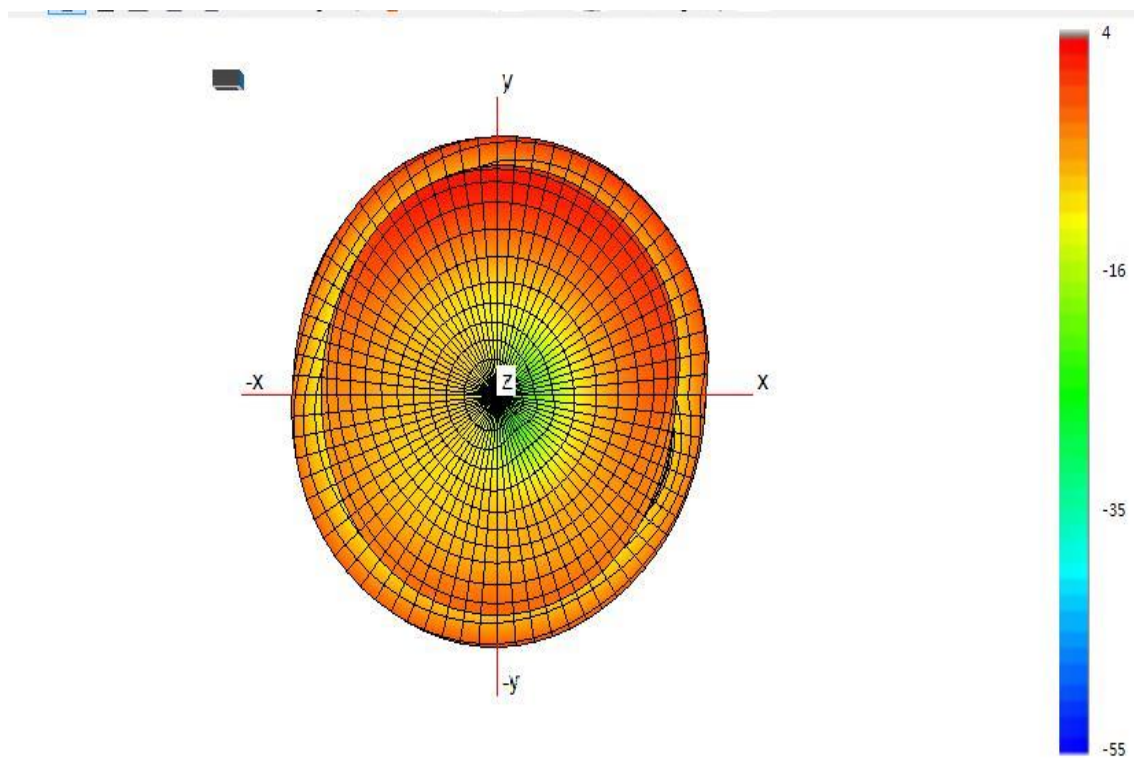
directional diagram





5150-5850MHz directional diagram





7、可靠性试验报告(Reliability Report)

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Appearance, function and reliability test report

customer name			Test batch	
Customer product name			detect the number of	3PCS
product name		XE3000	Inspection personnel	JIANG TAO
Product material no		V2127-009-A-01	Inspection date	2023.4.8
NO.	Inspection items		Description of test results	
1	inspection of appearance		Appearance conforms to appearance criterion	
	judgement result		☒ OK ☐ NG	
2	可靠性检测	(一) low temperature test	Place the sample at a temperature of $-20\pm2^{\circ}\text{C}$, store it at a low temperature for 48 hours, take it out and let it stand for 2 hours. Check that the appearance of the sample is normal and the electrical performance parameters meet the requirements	
			1. No mechanical property damage; 2. Electrical property meets the original test requirements 3. Appearance and assembly remain unchanged judgement result: OK ☒ NG ☐	
		(二) Constant temperature and humidity	The sample was placed at a temperature of $70\pm2^{\circ}\text{C}$ and relative humidity of 85%~90%. After 48 hours of constant temperature storage, the sample was taken out and stood for 2h. The appearance of the sample should be checked and the electrical performance parameters should meet the requirements	
			1. No mechanical property damage; 2. Electrical property meets the original test requirements 3. Appearance and assembly remain unchanged judgement result: OK ☒ NG ☐	

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		(三)Salt spray test	The sample shall be placed in the salt spray testing machine. The sample shall not overlap with the sample. The sample shall be placed at a tilt of 60-80 degrees from the horizontal plane as far as possible. At 35℃±2℃, wetness & GT;In 85% of the closed environment, within the PH range of 6.5 to 7.2, the samples were rinsed with clean water and blow-dried for 2h after continuous spraying with 5% ± 1% Nacl solution for a specified time
			1. No mechanical property damage; 2. Electrical property meets the original test requirements 3. Appearance without rust and oxidation judgement result: OK ☒ NG ☐
		judgement result	☒ OK ☐ NG
3	Functional detection	(四)Elasticity test	Place the product on the test instrument to check whether its performance meets the customer's requirements 1. The elasticity conforms to the test requirements judgement result: OK ☐ NG ☐
		(五)Tensile test	1. The pull force meets the test requirements judgement result: OK ☐ NG ☐
		judgement result: OK ☒ NG ☐	
Note: The PCB board shall not be tested for salt spray, and the shrapnel type shall be tested for elasticity			