

# Shenzhen Jiexuntong Wireless Technology Co. LTD

## Antenna acknowledgment

**Customer name: Baoneng Daktron**

**Project model: 902M**

**Antenna frequency: 908-920MHz**

**Manufacturer: Shenzhen Jiexuntong Wireless Technology Co. LTD**

**Date of issue: 2023-03-31**

### Manufacturer acknowledgment column:

<b>Project preparation</b>	<b>RF</b>	<b>structure</b>	<b>approve</b>	<b>Date</b>

### Customer acknowledgement column:

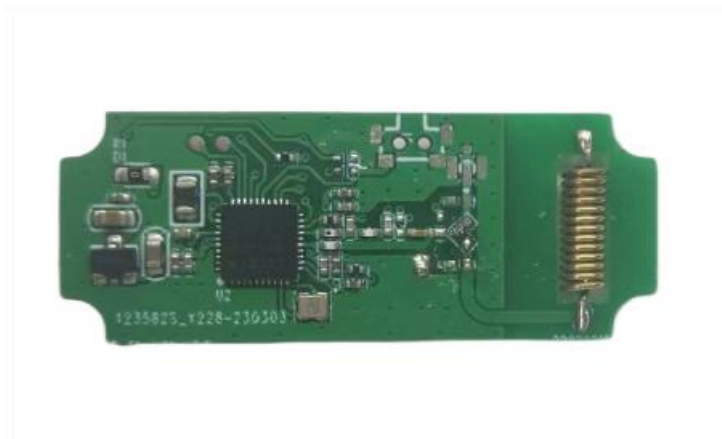
<b>confirm</b>	<b>audit</b>	<b>approve</b>	<b>Date</b>

## 一、Antenna picture



## 二、Antenna assembly and environmental treatment

### 2. 1. Antenna assembly



### 2. 2. Environmental treatment

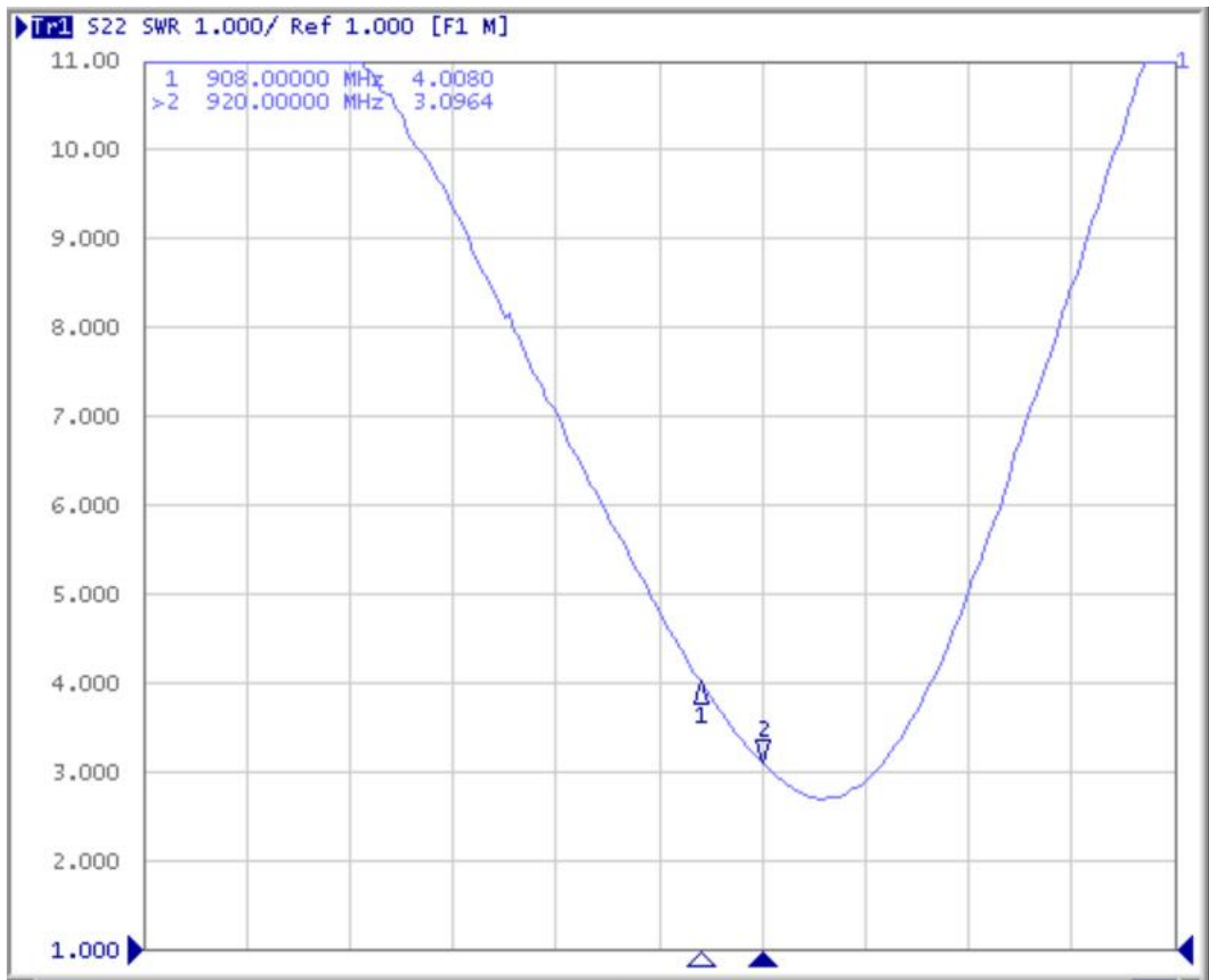
(No environmental treatment)

### 2. 3. Matching

(No modifications were made to the original match)

### 三、Electrical performance report

#### 3.1. VSWR



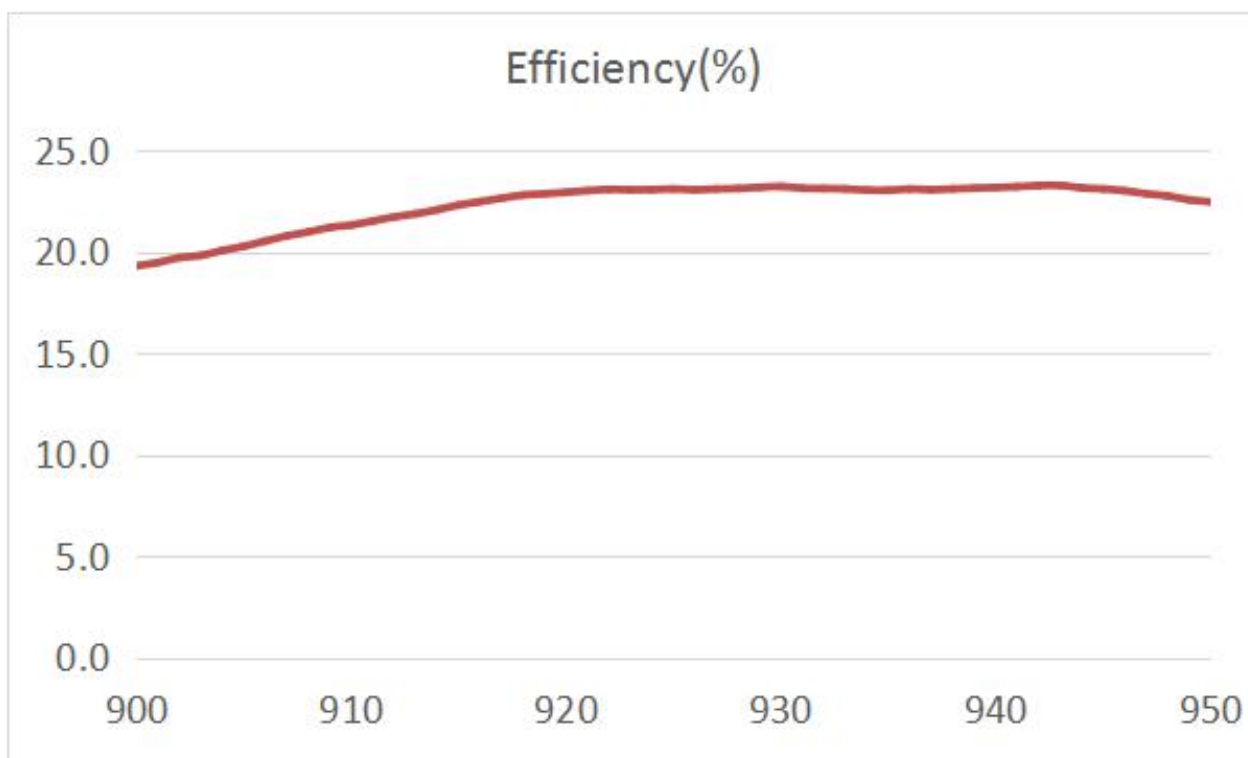
This specification belongs to Shenzhen Jiexuntong Wireless Technology Co., Ltd. and relevant customer confidential archives, please keep properly, without our company and relevant customer permission, anyone shall not disclose.

### 3. 2. Efficiency/ gain data

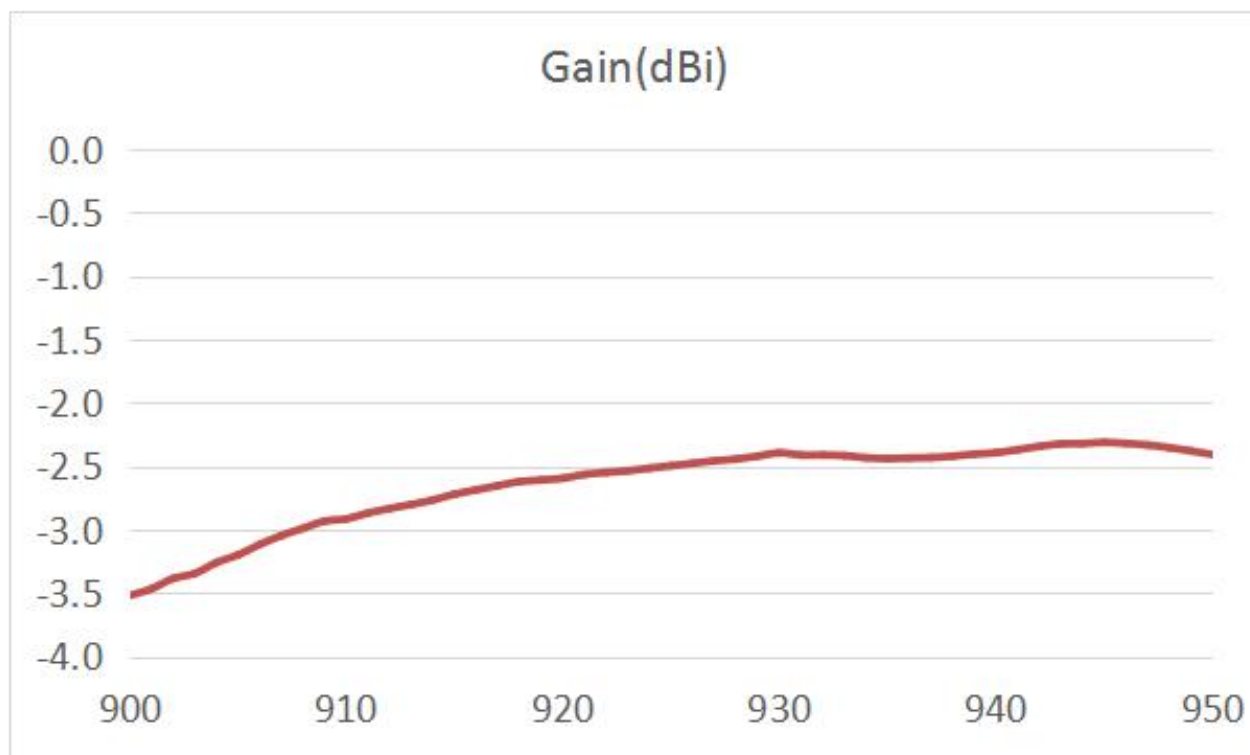
Freq(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
850	-5.86	-9.18	12.09
852	-5.78	-9.10	12.30
854	-5.71	-9.05	12.45
856	-5.66	-9.01	12.57
858	-5.57	-8.95	12.74
860	-5.49	-8.86	12.99
862	-5.37	-8.75	13.34
864	-5.25	-8.62	13.73
866	-5.14	-8.52	14.05
868	-5.04	-8.42	14.38
870	-4.94	-8.34	14.67
872	-4.84	-8.25	14.96
874	-4.71	-8.13	15.39
876	-4.59	-8.03	15.73
878	-4.45	-7.90	16.20
880	-4.35	-7.81	16.54
882	-4.26	-7.73	16.86
884	-4.18	-7.66	17.12
886	-4.10	-7.59	17.42
888	-4.02	-7.52	17.71
890	-3.90	-7.41	18.16
892	-3.78	-7.29	18.67
894	-3.66	-7.17	19.19
896	-3.61	-7.10	19.52
898	-3.57	-7.04	19.76
900	-3.56	-7.02	19.88
902	-3.50	-6.94	20.24
904	-3.40	-6.87	20.56
906	-3.27	-6.78	20.99
908	-3.15	-6.70	21.40
910	-3.08	-6.63	21.71
912	-3.01	-6.56	22.09
914	-2.95	-6.50	22.40
916	-2.88	-6.43	22.77
918	-2.82	-6.37	23.08
920	-2.80	-6.34	23.20
922	-2.76	-6.32	23.35
924	-2.73	-6.32	23.34
926	-2.70	-6.32	23.35
928	-2.66	-6.31	23.41
930	-2.62	-6.29	23.51

This specification belongs to Shenzhen Jiexuntong Wireless Technology Co., Ltd. and relevant customer confidential archives, please keep properly, without our company and relevant customer permission, anyone shall not disclose.。

### 3. 3. Efficiency line graph:

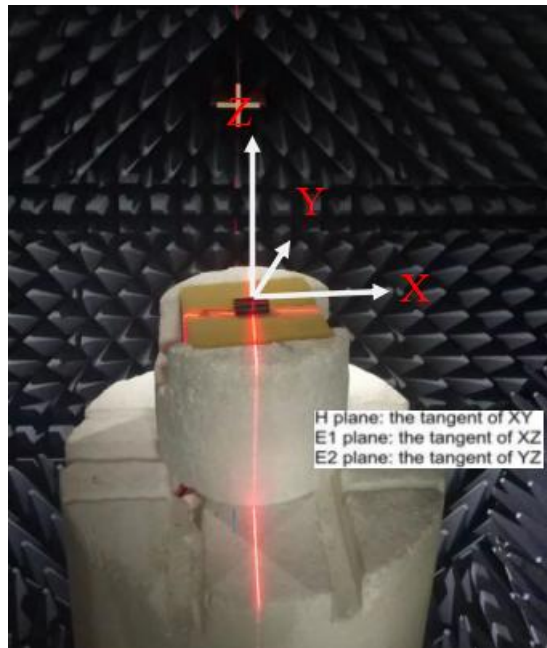


### 3. 4. Gain line graph:

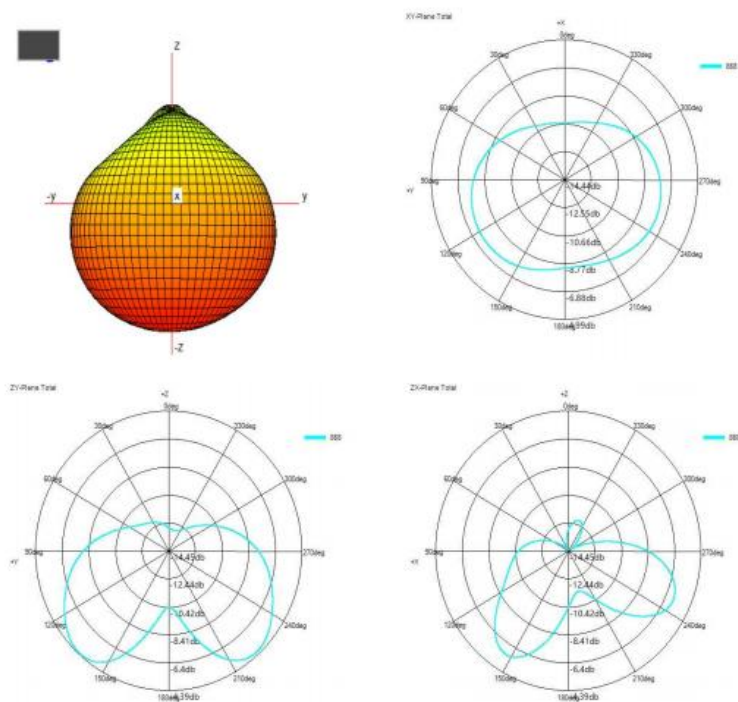


This specification belongs to Shenzhen Jiexuntong Wireless Technology Co., Ltd. and relevant customer confidential archives, please keep properly, without our company and relevant customer permission, anyone shall not disclose.。

**3. 5. Field pattern diagram:**

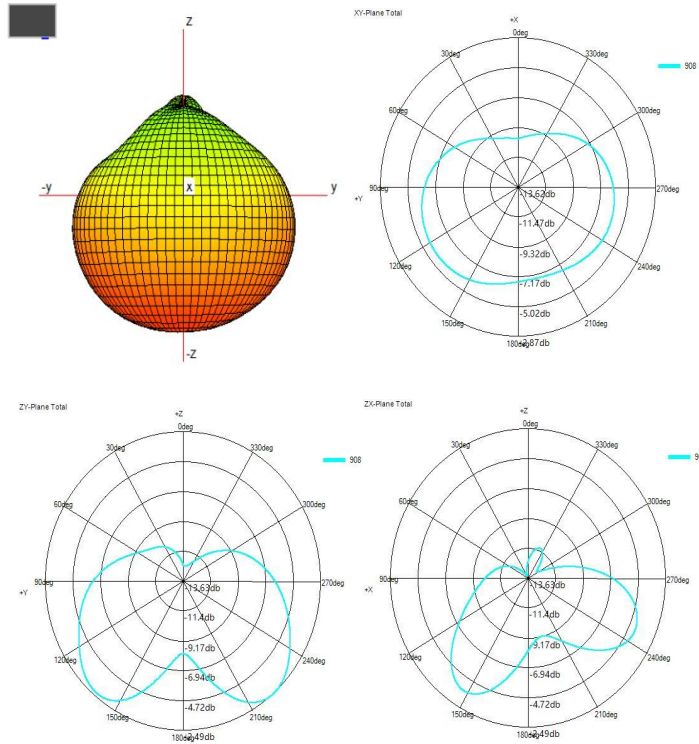


868MHz

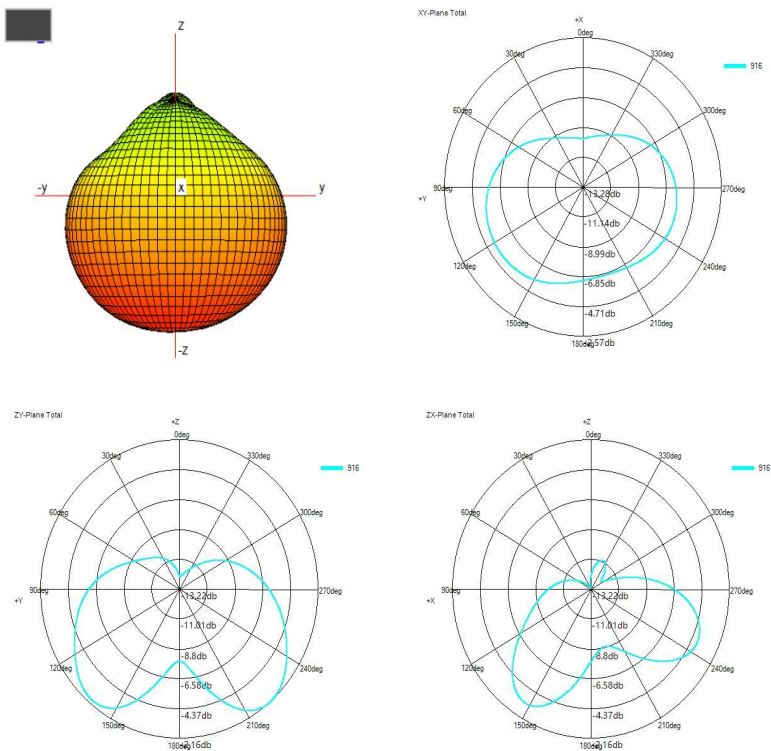


This specification belongs to Shenzhen Jiexuntong Wireless Technology Co., Ltd. and relevant customer confidential archives, please keep properly, without our company and relevant customer permission, anyone shall not disclose.

908MHz

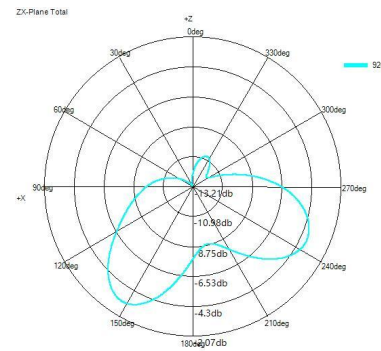
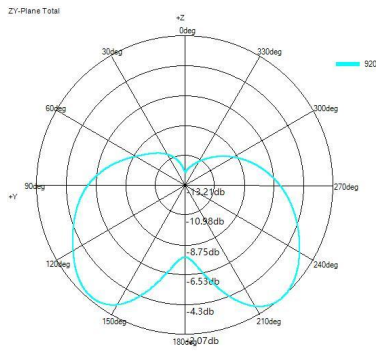
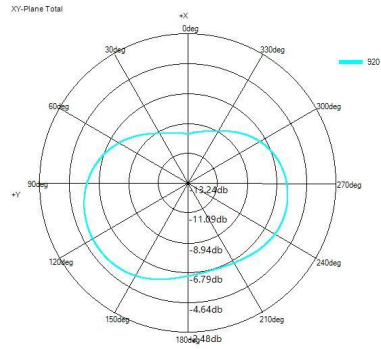
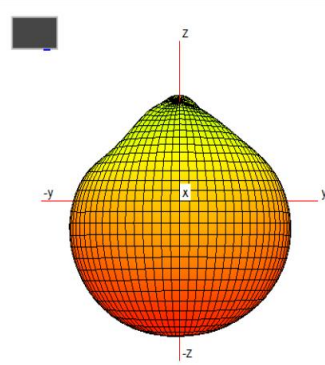


916MHz



This specification belongs to Shenzhen Jiexuntong Wireless Technology Co., Ltd. and relevant customer confidential archives, please keep properly, without our company and relevant customer permission, anyone shall not disclose.

920MHz



This specification belongs to Shenzhen Jiexuntong Wireless Technology Co., Ltd. and relevant customer confidential archives, please keep properly, without our company and relevant customer permission, anyone shall not disclose. .



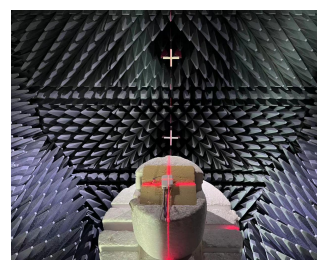
## 四、Reliability test report

### 4. 1. Salt spray test report

Guest house	Baoneng Daktron	Part name	<b>902M</b>	Date of completion	20230327
Test item	Test requirement		Measured result	evaluation	
Neutral salt spray test	Experimental process: Neutral salt spray test was carried out on the hardware on the antenna. In the closed environment of $35\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$ , humidity $> 85\%$ , PH value within the range of 6.5-7.2, $5\% \pm 1\%$ NaCl solution was used. After continuous 24h brine spray, the surface of the product should be free from corrosion, discoloration, and coating peeling.		After the end of the experiment, the surface of the product has no rust, no discoloration, and the coating has no peeling.	PASS	
Experiment: Wujiaxiong			Approved by: Wujiaxiong		

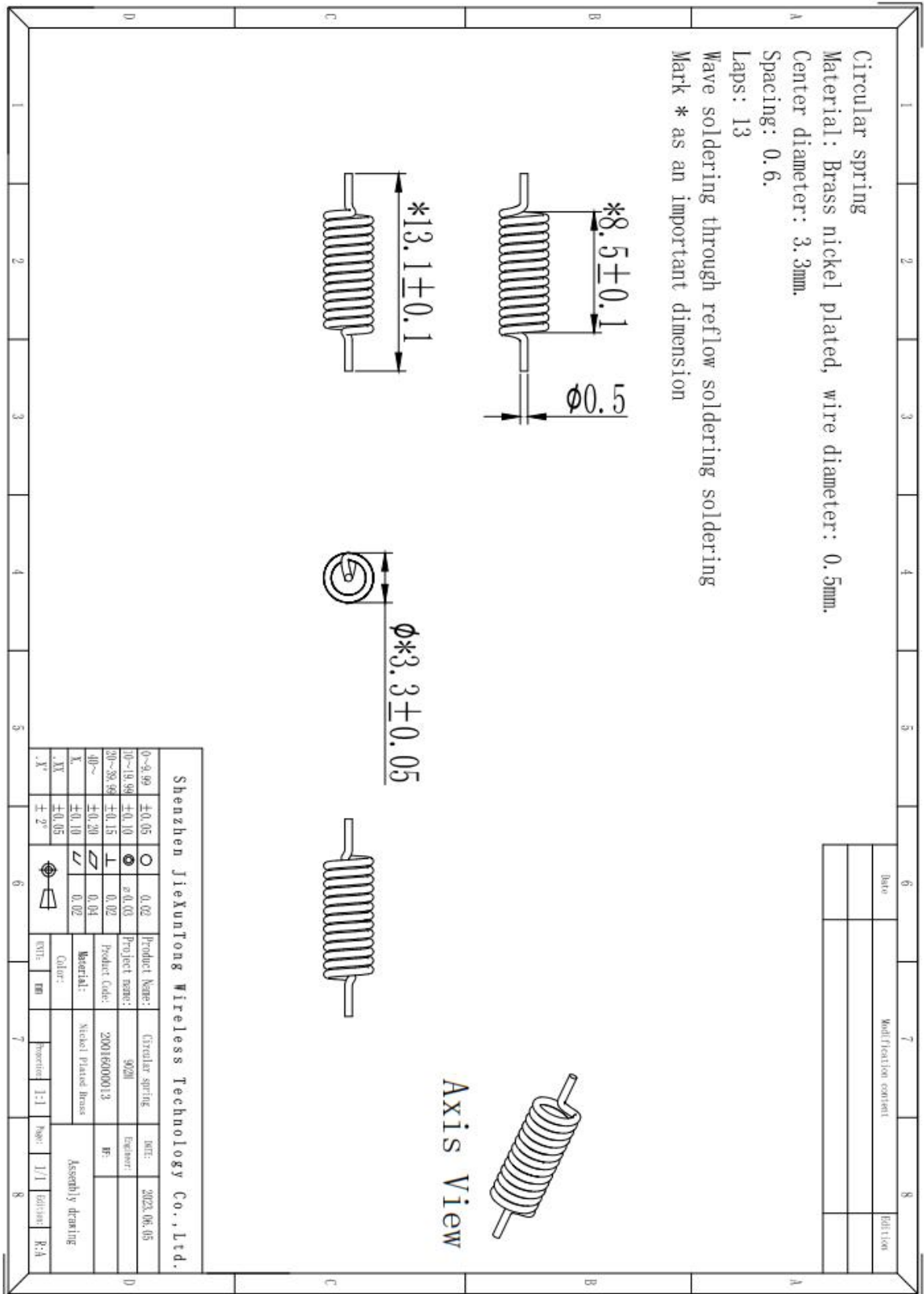


Antenna testing instrument



Darkroom test environment

五、Drawing



This specification belongs to Shenzhen Jiexuntong Wireless Technology Co., Ltd. and relevant customer confidential archives, please keep properly, without our company and relevant customer permission, anyone shall not disclose.