



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:

Project preparation	RF	structure	approve	Date

Customer acknowledgement column:

confirm	audit	approve	Date



一、Antenna picture



二、Antenna assembly and environmental treatment

2. 1. Antenna assembly



2. 2. Environmental treatment

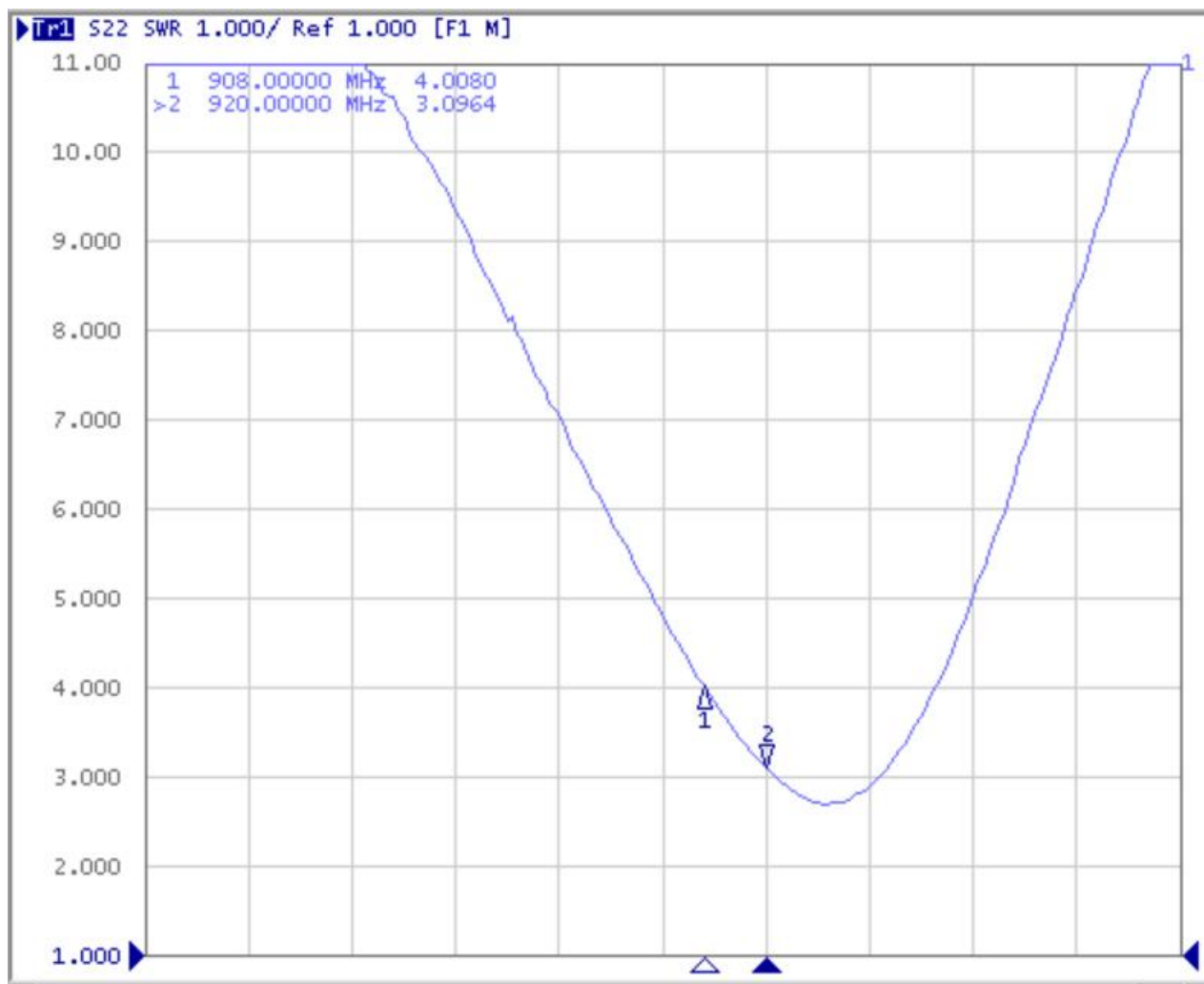
(No environmental treatment)

2. 3. Matching

(No modifications were made to the original match)

三、Electrical performance report

3.1. VSWR



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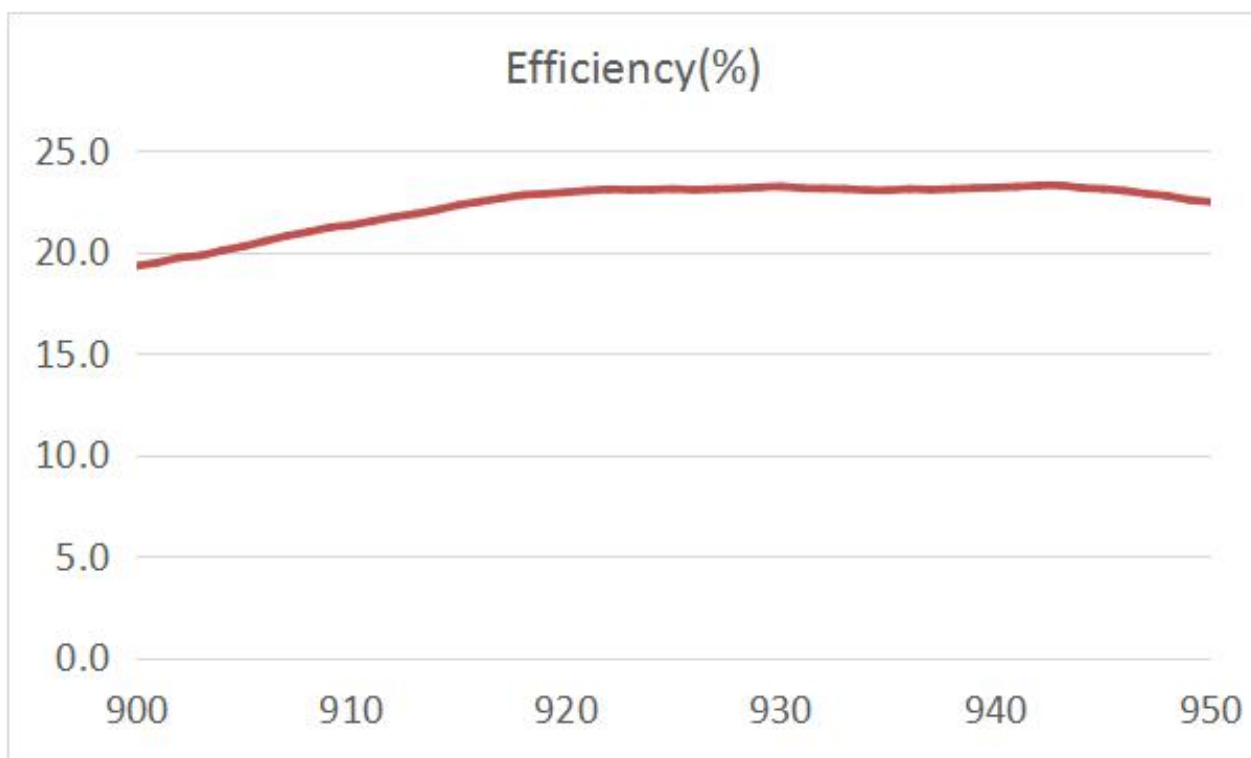


3. 2. Efficiency/ gain data

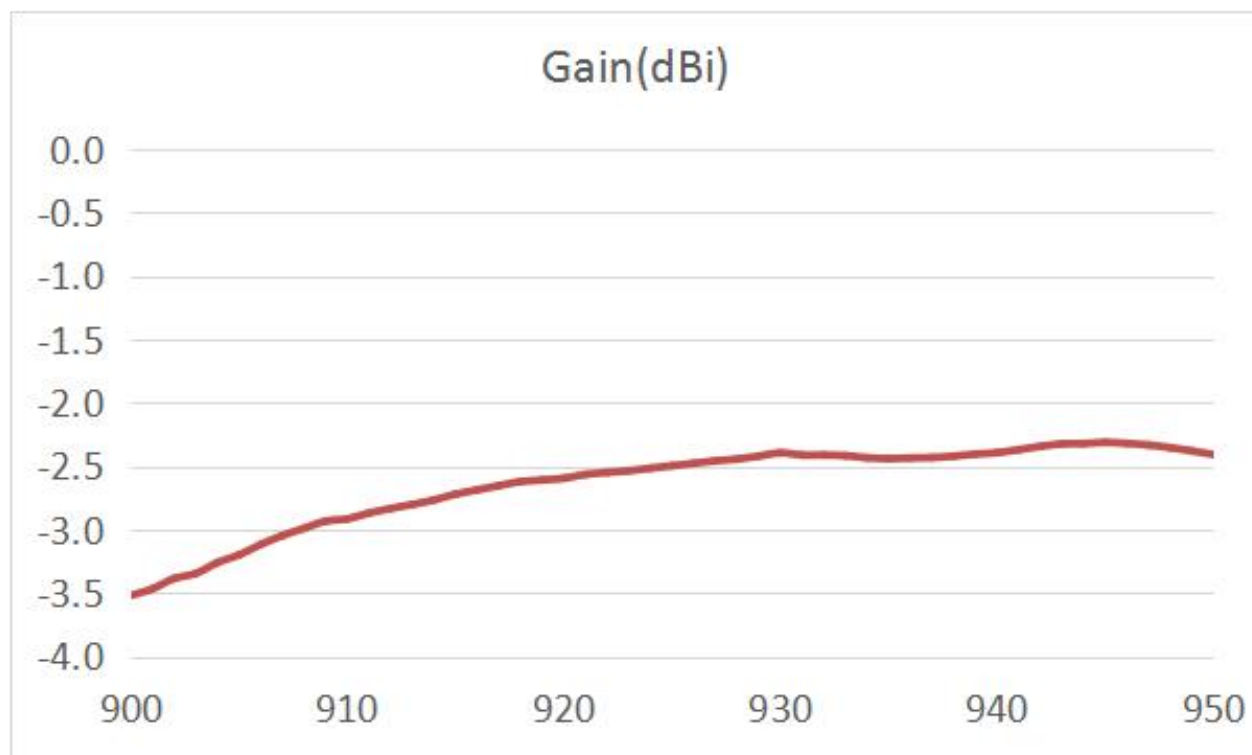
Freq(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
850	-5.86	-9.18	12.09
852	-5.78	-9.10	12.30
854	-5.71	-9.05	12.45
856	-5.66	-9.01	12.57
858	-5.57	-8.95	12.74
860	-5.49	-8.86	12.99
862	-5.37	-8.75	13.34
864	-5.25	-8.62	13.73
866	-5.14	-8.52	14.05
868	-5.04	-8.42	14.38
870	-4.94	-8.34	14.67
872	-4.84	-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

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3. 3. Efficiency line graph:

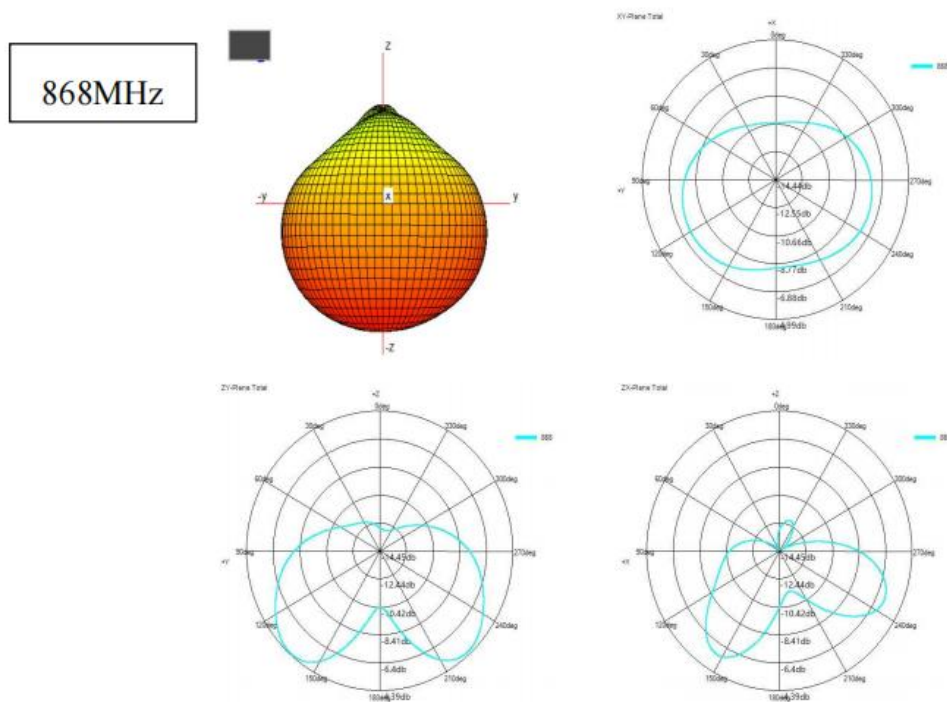
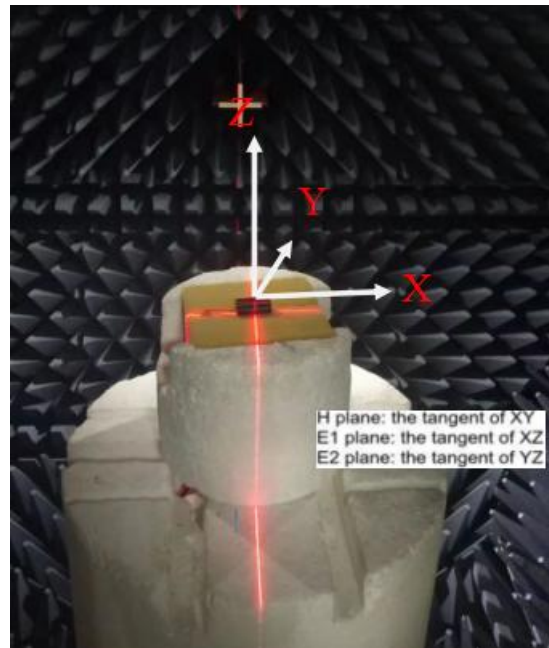


3. 4. Gain line graph:



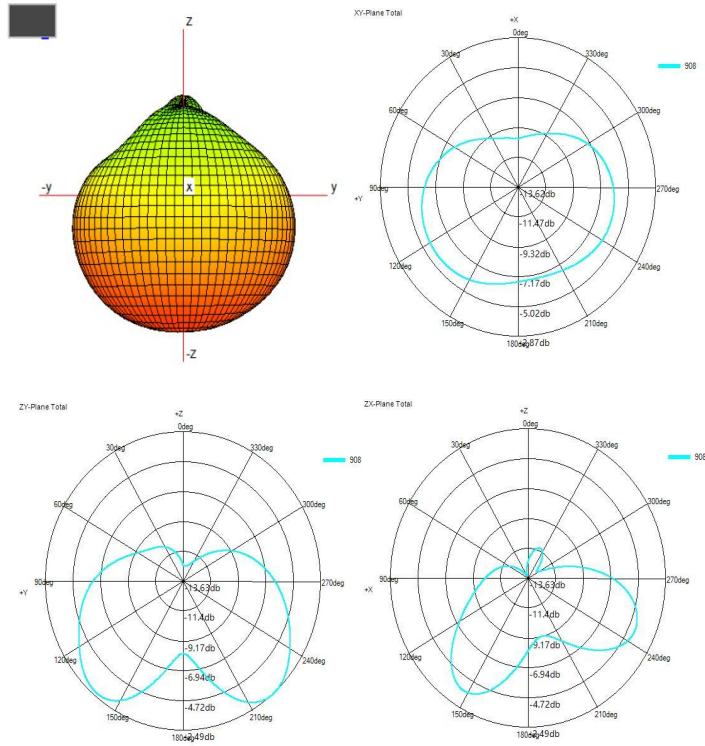
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3. 5. Field pattern diagram:

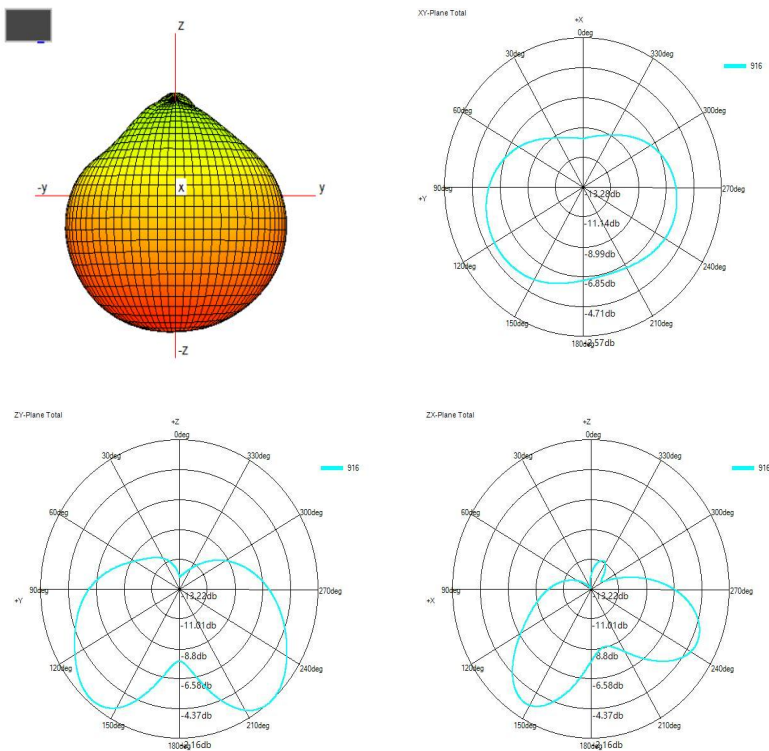


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908MHz

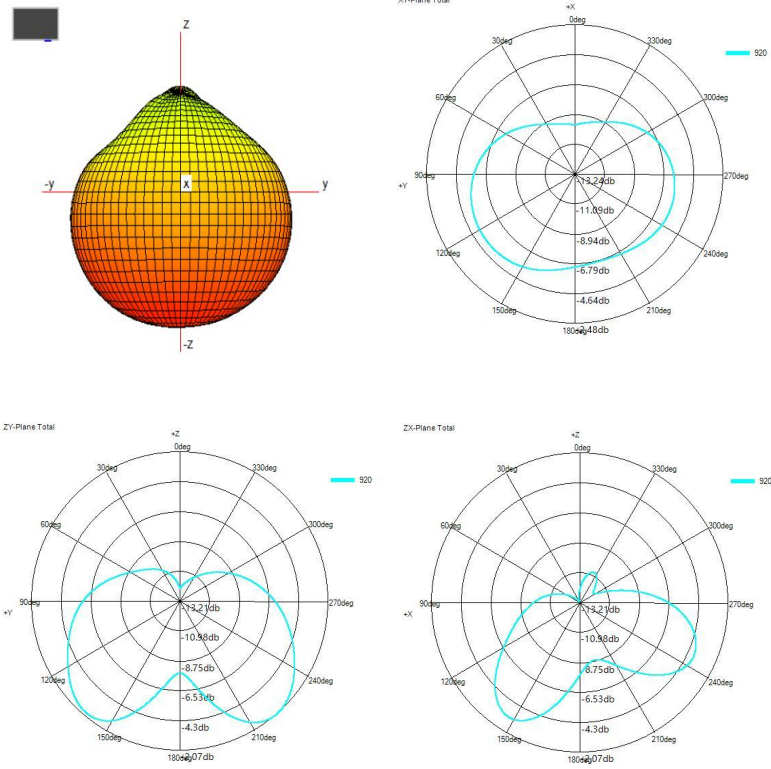


916MHz



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920MHz



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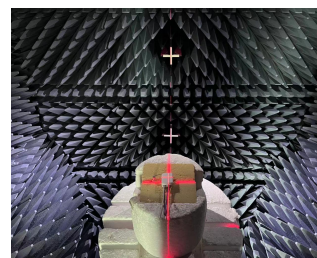
四、Reliability test report

4. 1. Salt spray test report

Guest house	Baoneng Daktron	Part name	902M	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		

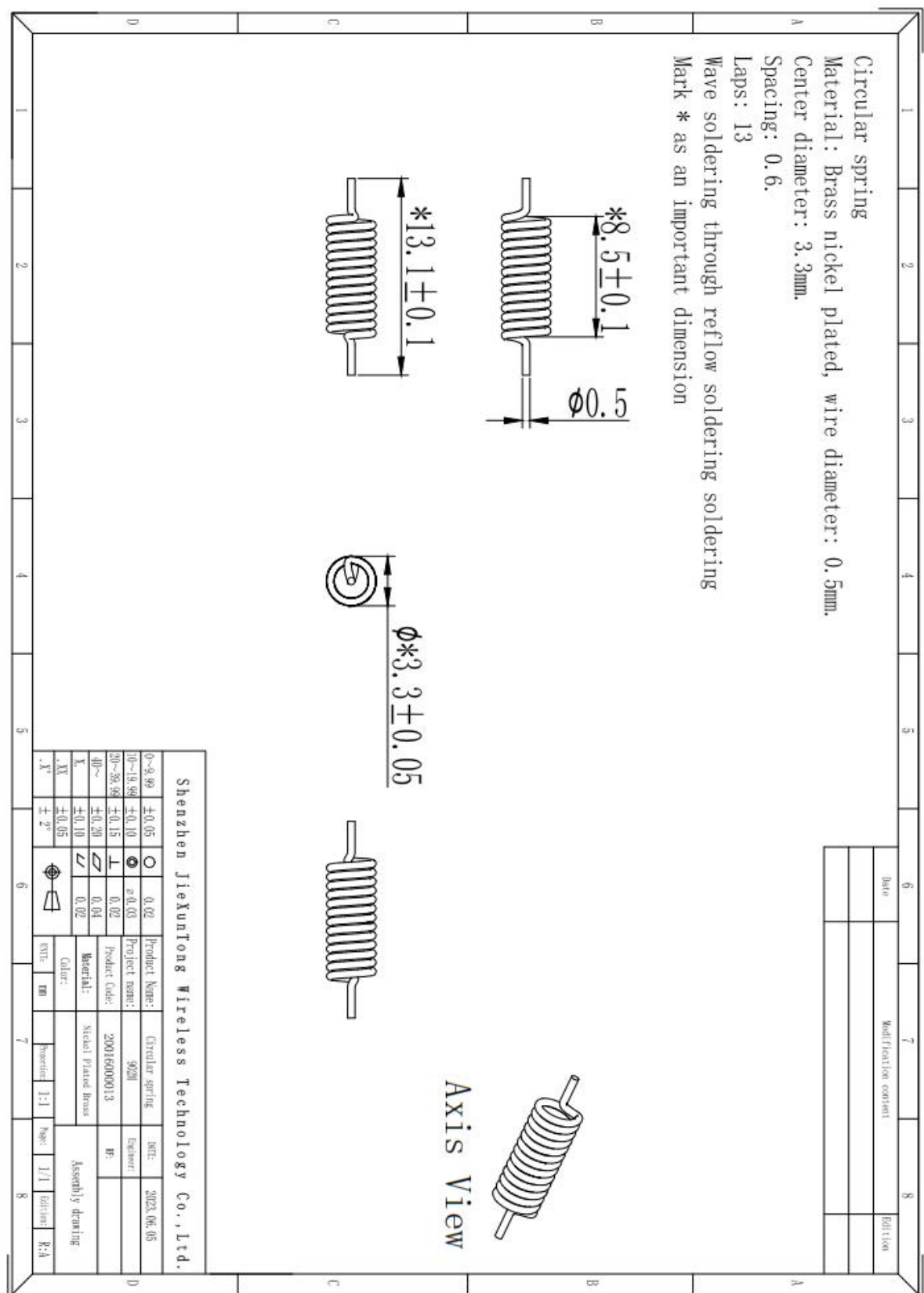


Antenna testing instrument



Darkroom test environment

五、Drawing



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