

SPECIFICATION

Shenzhen Strongpower Communication Co., Ltd

ShenzhenStrongpowerCommunicationCo., Ltd.

930 Bluetooth Aatenna

SPECIFICATION

Customer	TRANSSION	Frequency Band	2402MHz-2480MHz
Model	930		
Serial No		Color	
RF designer	Zou Lijun	Structural engineer	Zhou Jun
Technical director	Fu Yicheng	Date	2024/04/16

Confirm by customer:

INDEXES

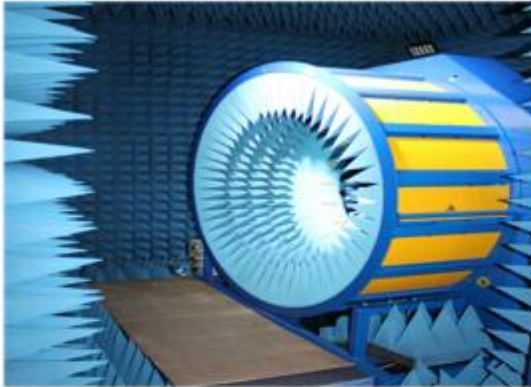
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Confidentiality requirements

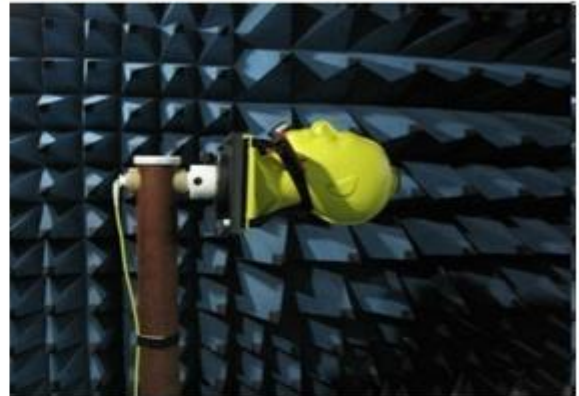
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1. The Equipment of Active&Passive Test

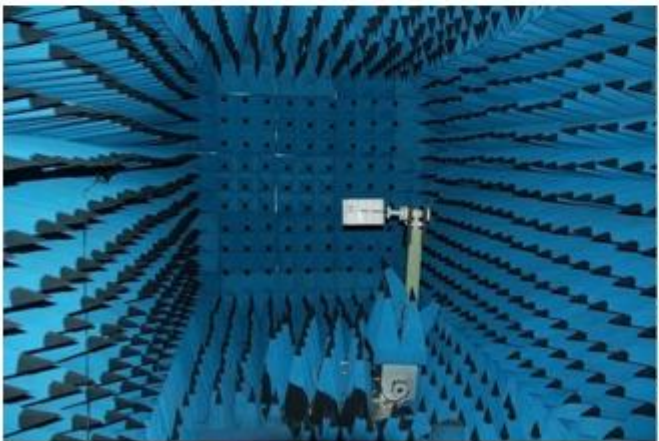
chamber



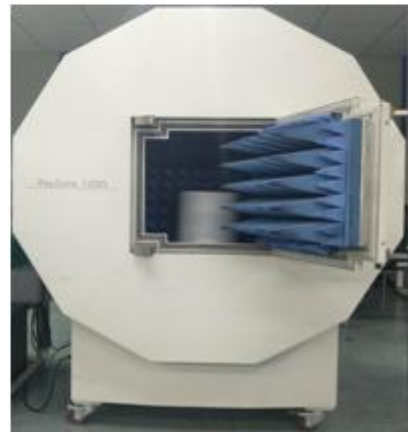
Satimo



Airlink



Guang Ping



GTS

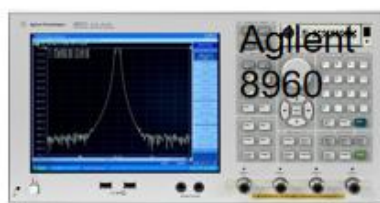
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equipment



R&S
GMW500



Agilent
8960



Anritsu
MT8820C



Agilent
N4010A



Agilent
E4438C
Signal
Generator



Agilent
E5071C

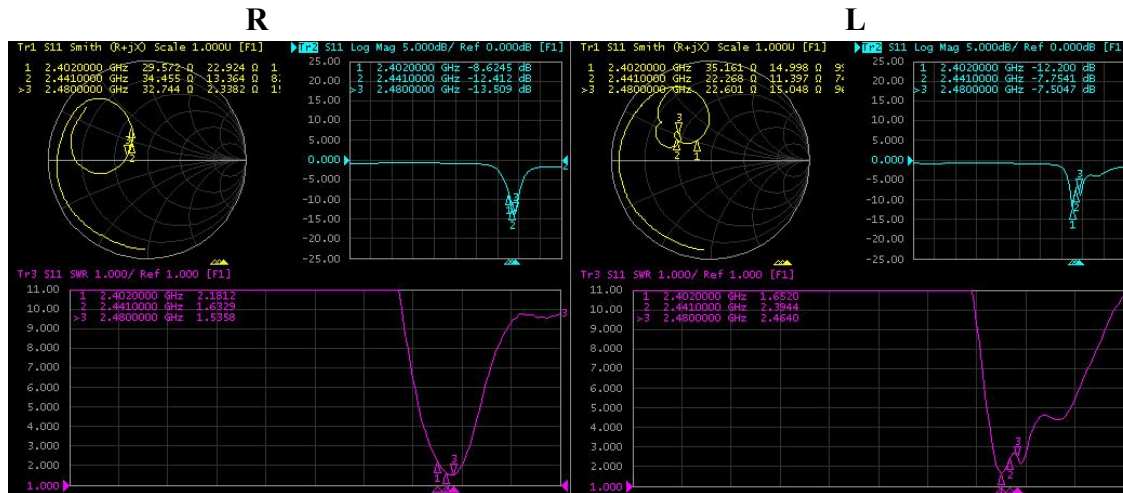


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2. Passive Test

2.1 S Parameters, VSWR, Return loss, Smith Chart



2.2 Passive Efficiency and Gain

Frequency (MHz)	Efficiency%	Efficiency (dB)	Gain (dBi)
2400	21.04%	-6.77	-2.63
2410	21.79%	-6.62	-2.55
2420	21.80%	-6.62	-2.67
2430	22.54%	-6.47	-2.58
2440	22.29%	-6.52	-2.76
2450	22.88%	-6.41	-2.45
2460	22.85%	-6.41	-1.99
2470	22.63%	-6.45	-1.97
2480	22.69%	-6.44	-1.77

Frequency (MHz)	Efficiency %	Efficiency (dB)	Gain (dBi)
2400	26.38%	-5.79	-1.55
2410	26.97%	-5.69	-1.59
2420	25.57%	-5.92	-1.61
2430	24.93%	-6.03	-1.85
2440	23.02%	-6.38	-2.35
2450	21.59%	-6.66	-2.76

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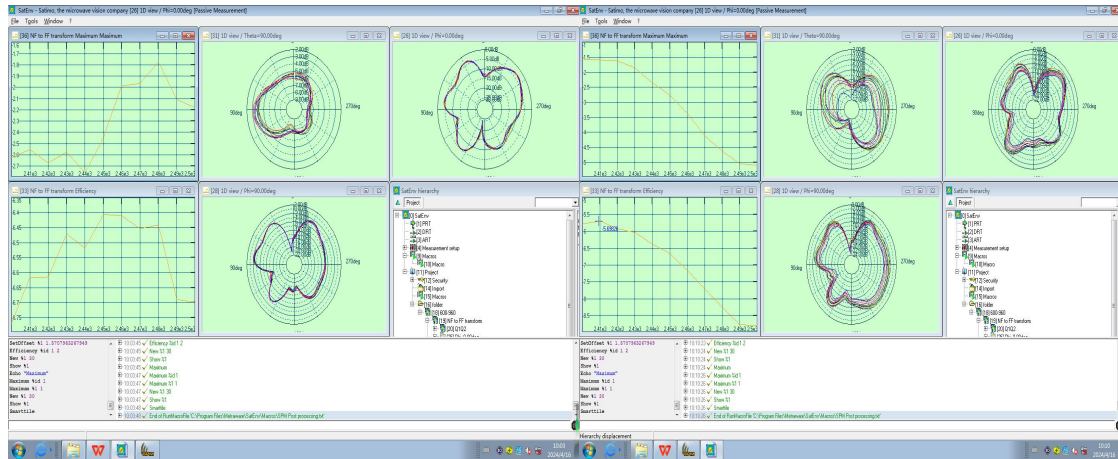
Confidential Information

2460	19.26%	-7.15	-3.36
2470	16.96%	-7.71	-4.11
2480	14.97%	-8.25	-4.63

2.3 Passive pattern

R

L



Theta=90

Phi=0°

Phi=90°

3.Active test

3.1 TRP&TIS

FS-R

信道 CH	TRP (dBm)	TIS (dBm)
0	3.9	-88.14
39	4.25	-87.86
78	3.88	-87.22

HR

信道 CH	TRP (dBm)	TIS (dBm)
0	-0.91	-83.06
39	-0.21	-82.63
78	-0.52	-82.45

FS-L

信道	TRP	TIS
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Confidential Information

CH	(dBm)	(dBm)
0	4.15	-87.55
39	3.38	-87.8
78	3.69	-87.81

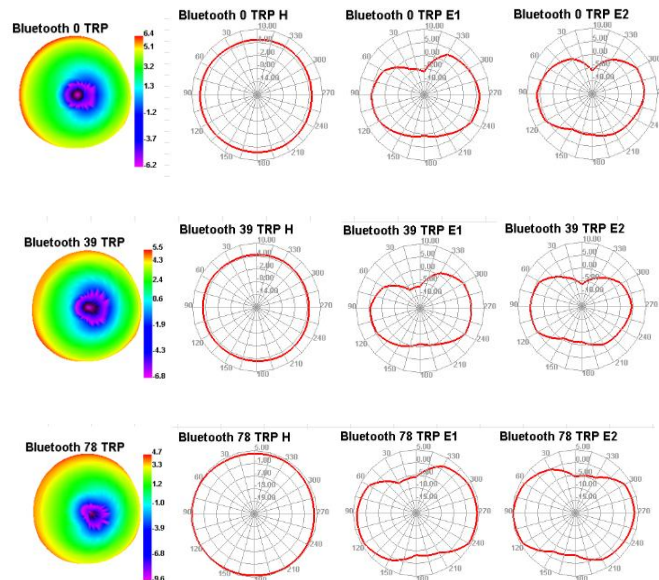
HL

信道 CH	TRP (dBm)	TIS (dBm)
0	-1.72	-81.5
39	-0.21	-82.33
78	-0.44	-82.25

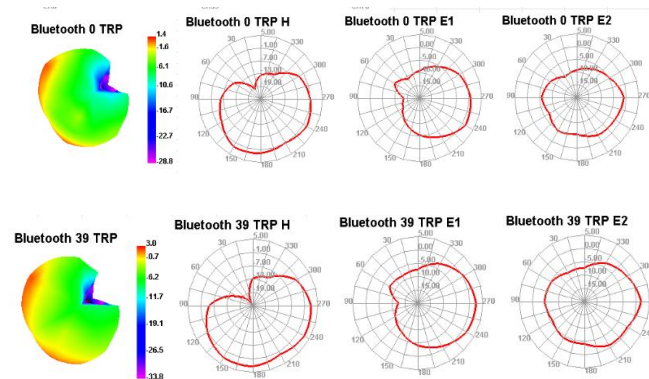
3.2 Active pattern

Left

FS-L

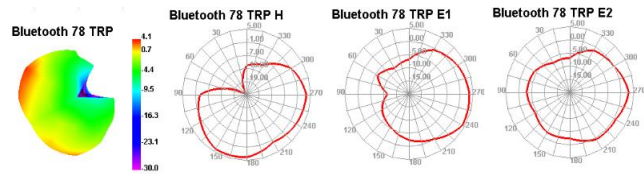


HL

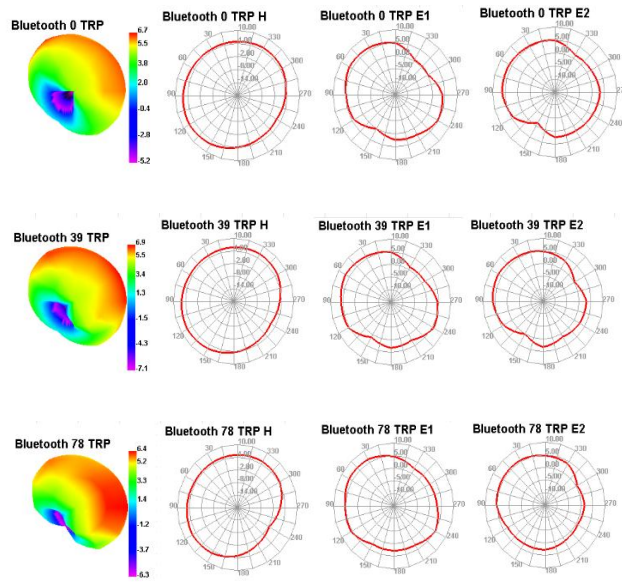


Confidentiality requirements

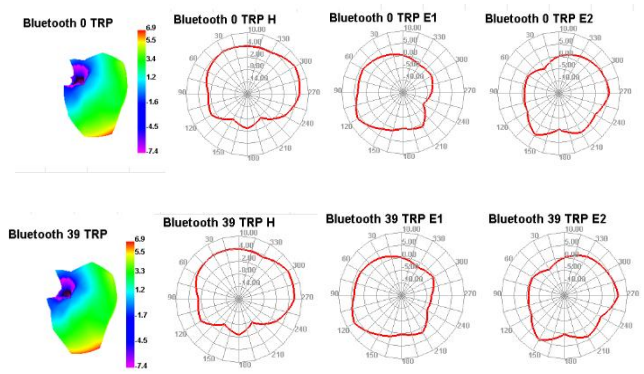
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FS-R

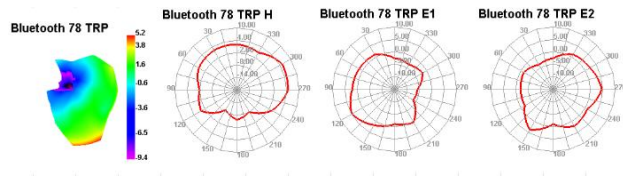


HR



Confidentiality requirements

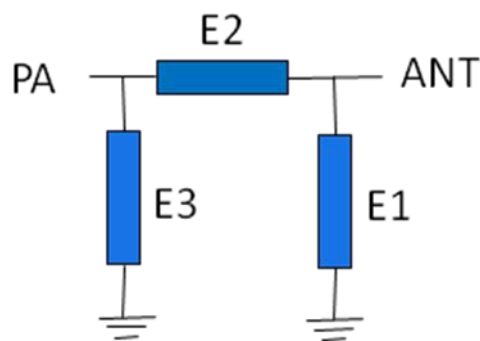
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4. Matching Circuit

Left&Right are the same

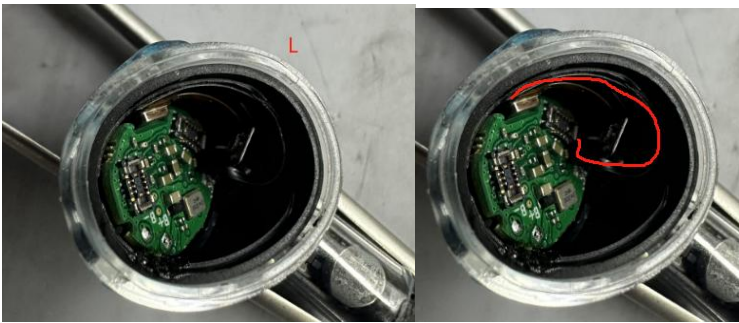
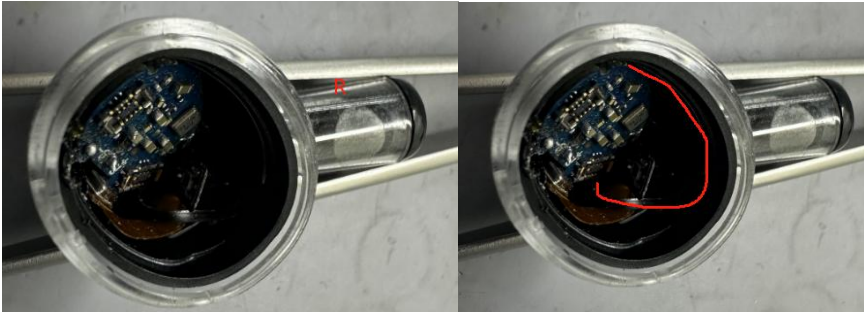
Element	E1	E2	E3
Value	ESD	0 Ω	3PF



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5. Environmental treatment



延长地金手指剪小到1MM

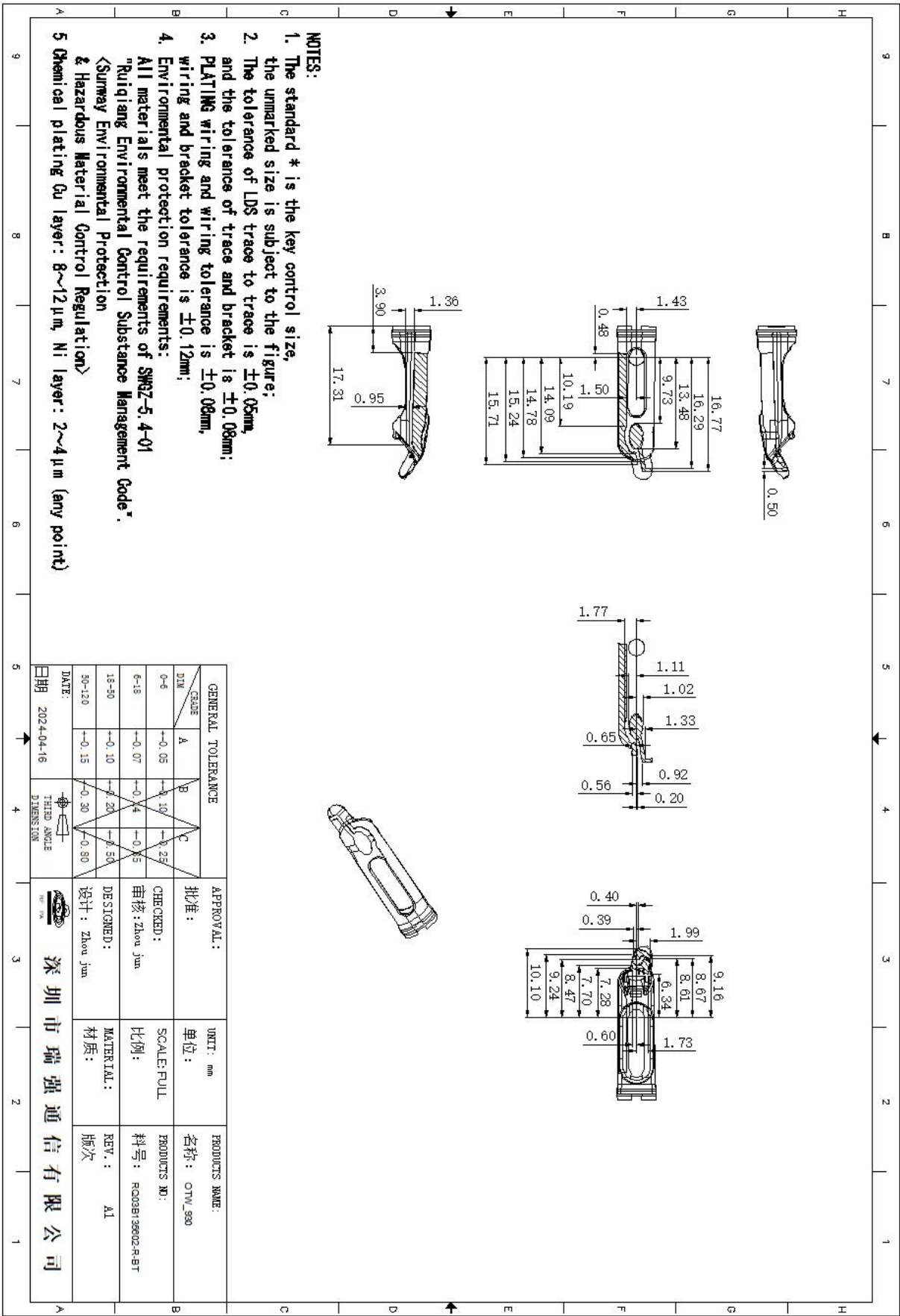


延长地总长为26MM



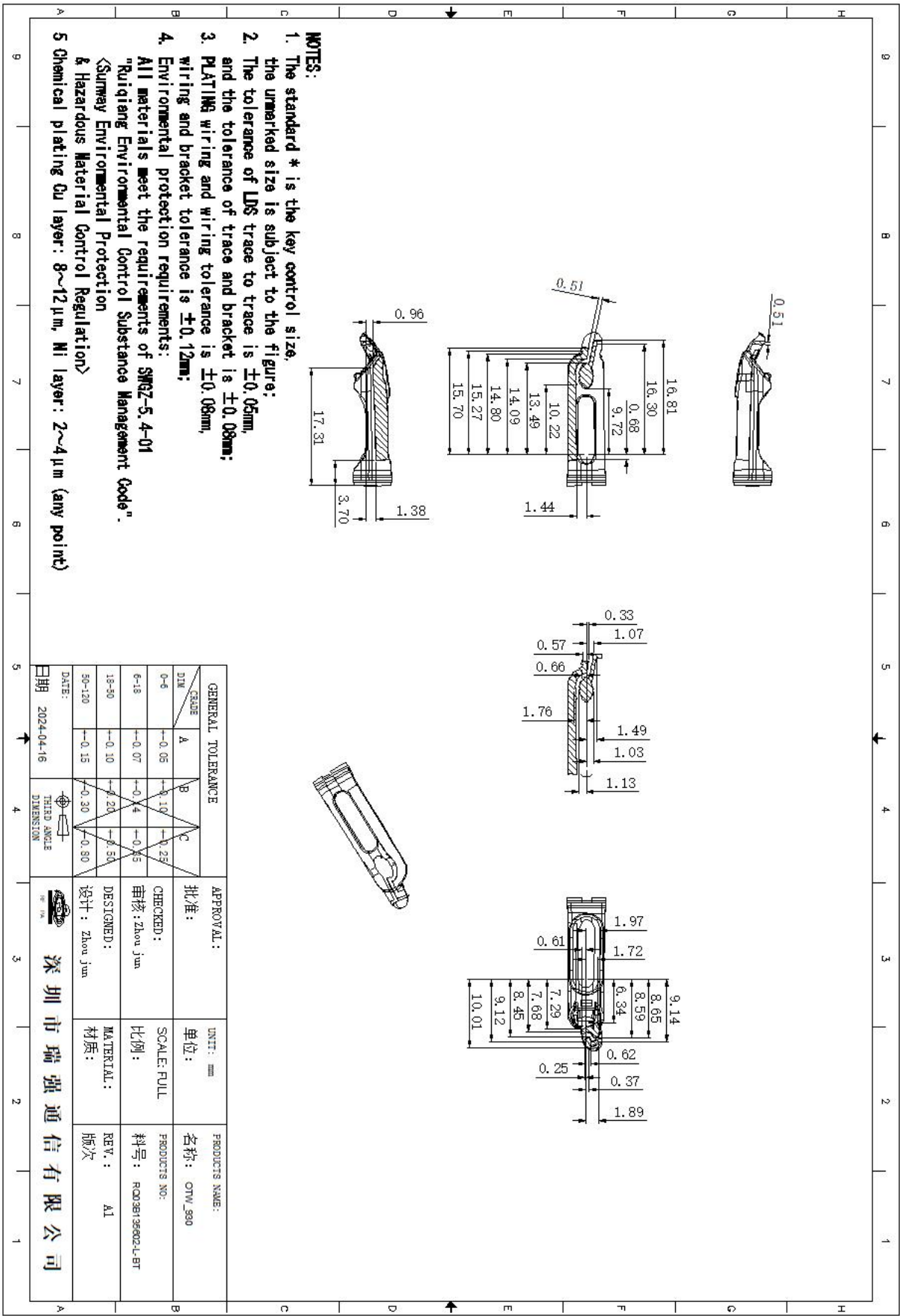
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