



深圳星源创科技有限公司

Shen Zhen Xing Yuan Chuang Technology Co., Ltd

规格承认书 Approval Sheet

客户名称 Customer	思宇星	日期 Data	2022/12/10
产品名称 Product	WiFi天线	客户机型 Models	I1401-P3
料号 P/N	F548-14RB-305	客户料号 Customer P/N	
规格描述 Specifications	黑色FPC; RF0.81四代端子黑色同轴线, L=305mm		

供应商承认签印 Vender Approved By	客户承认签印 Customer Approved By
	
Checked By:	Checked By:
Approval By:	Approval By:

文件修订履历表

版本 Version	修订内容 Revise The Content	修订人 Revused	核准 Approval	修订日期 Date	备注 Note

地址: 深圳市宝安区福永镇福海街道塘尾股份商务大厦1506

Address: 1506, Tangwei Business Building, Fuhai Street, Fuyong Town, Baoan District, Shenzhen

Tel: 0755-82103639 QQ: 487580356 Email: Stephdeng_Vis@126.com



Content		
NO.	Proect	Page NO.
1	Specification	3
2	WiFi Ant Test Information	4
3	Antenna Placement	5
4	Test Data	6~~8
5	Antenna Assembly	9
6	Notes	10
7	Inspection Standard	11
8	Outgoing Inspection Report	12
9	Packing Specification	13



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Specification

1.1 Electrical Properties

Characteristics	Specifications
Working Band	2.4G WiFi; 5G WiFi
Antenna From	PIFA
Impedance	50 Ω
Polarization	Linear
Peak Effi	38%@2.4G; 28%@5G
Peak Gain	2.7dBi@2.4G; 3.5dBi@5G

1.2 Physical Properties

Characteristics	Specifications
Operating Temp	-10°C ~+60°C
Storage Temp	-10°C ~+70°C
Humidity	10~95%RH

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WiFi Ant Test Information

Frequency	2. 4G (2402~2483) Mhz	5G (5150~5850) Mhz
Module information		

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Antenna Placement



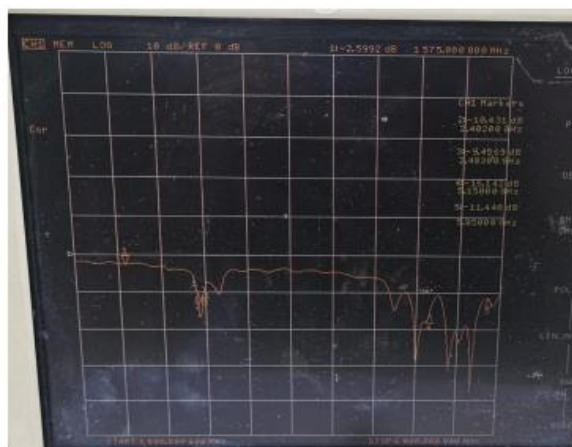
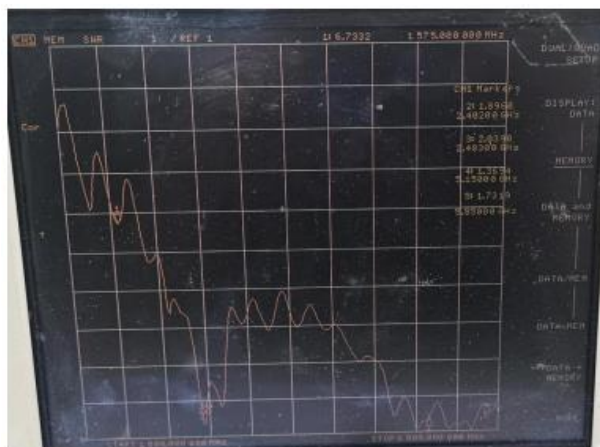
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Test Data

S11 Parameter-VSWR



Frequency(MHZ)	2400	2450	2483	5150	5500	5850
VSWR	1.89		2.03	1.36		1.73
Return Loss(DB)	-10.43		-9.45	-16.14		-11.44

Efficiency Table (2.4G)

Passive Test For WIFI2.4						
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)
2400	37.02	-4.32	2.43	0.28	15.135	21.885
2410	38.23	-4.18	2.61	0.46	15.684	22.542
2420	38.82	-4.11	2.72	0.57	16.063	22.758
2430	38.64	-4.13	2.61	0.46	16.188	22.456
2440	37.83	-4.22	2.33	0.18	15.991	21.84
2450	37.97	-4.21	2.29	0.14	16.171	21.794
2460	37.87	-4.22	2.38	0.23	16.253	21.618
2470	34.45	-4.63	2	-0.15	14.884	19.562
2480	34.2	-4.66	2.02	-0.13	14.868	19.329
2490	33.32	-4.77	2	-0.15	14.62	18.699
2500	34.92	-4.57	2.27	0.12	15.423	19.496

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Efficiency Table (5G)

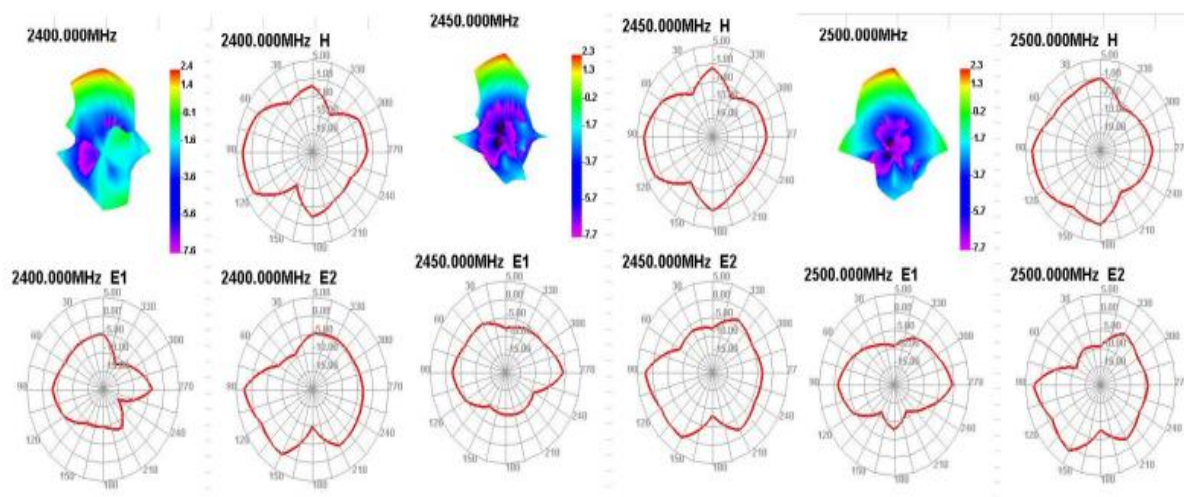
Passive Test For WIFI5G						
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)
5150	24.24	-6.16	4.25	2.1	10.883	13.353
5170	20.03	-6.98	3.23	1.08	8.922	11.111
5190	22.96	-6.39	3.67	1.52	10.174	12.787
5210	19.52	-7.1	2.58	0.43	8.586	10.931
5230	23.09	-6.37	2.97	0.82	10.011	13.075
5250	20.93	-6.79	2.29	0.14	8.842	12.086
5270	22.76	-6.43	2.36	0.21	9.305	13.451
5290	22.35	-6.51	2.27	0.12	8.873	13.48
5310	22.46	-6.49	2.25	0.1	8.614	13.848
5330	23.56	-6.28	2.53	0.38	8.768	14.794
5350	25.22	-5.98	3.04	0.89	9.187	16.036
5370	24.95	-6.03	3.02	0.87	8.965	15.985
5390	22.77	-6.43	2.62	0.47	8.096	14.672
5410	27.24	-5.65	3.34	1.19	9.572	17.671
5430	24.52	-6.11	3.04	0.89	8.648	15.87
5450	25.17	-5.99	3.17	1.02	9.071	16.097
5470	23.44	-6.3	2.57	0.42	8.514	14.928
5490	23.54	-6.28	2.51	0.36	8.602	14.94
5510	22.21	-6.54	2.14	-0.01	8.25	13.958
5530	23.28	-6.33	2.13	-0.02	8.622	14.662
5550	22.93	-6.4	1.91	-0.24	8.348	14.581
5570	22.47	-6.48	1.85	-0.3	8.002	14.471
5590	24.02	-6.19	2.33	0.18	8.495	15.523
5610	24.86	-6.04	2.51	0.36	8.747	16.114
5630	27.52	-5.6	2.99	0.84	9.673	17.849
5650	25.99	-5.85	3	0.85	9.328	16.658
5670	28.33	-5.48	3.56	1.41	10.487	17.847
5690	26.24	-5.81	3.18	1.03	9.82	16.418
5710	28.59	-5.44	3.33	1.18	10.587	18.004
5730	27.19	-5.66	3.05	0.9	9.898	17.29
5750	26.86	-5.71	2.9	0.75	9.667	17.198
5770	27.08	-5.67	2.59	0.44	9.634	17.447
5790	25.24	-5.98	2.03	-0.12	8.882	16.356
5810	25.83	-5.88	1.94	-0.21	9.039	16.79
5830	22.85	-6.41	1.3	-0.85	8.034	14.812
5850	24.48	-6.11	1.24	-0.91	8.618	15.859

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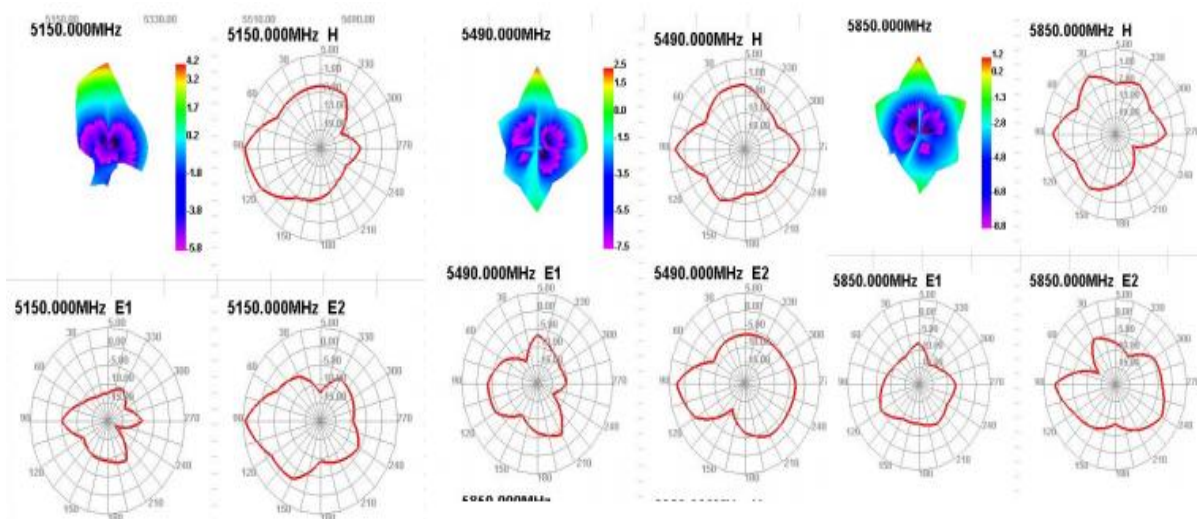
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Radiation Pattern(2.4G)



Radiation Pattern(5G)



BT Test

测试环境：开放空间(通道)

测试工具：蓝牙音响

测试距离10m

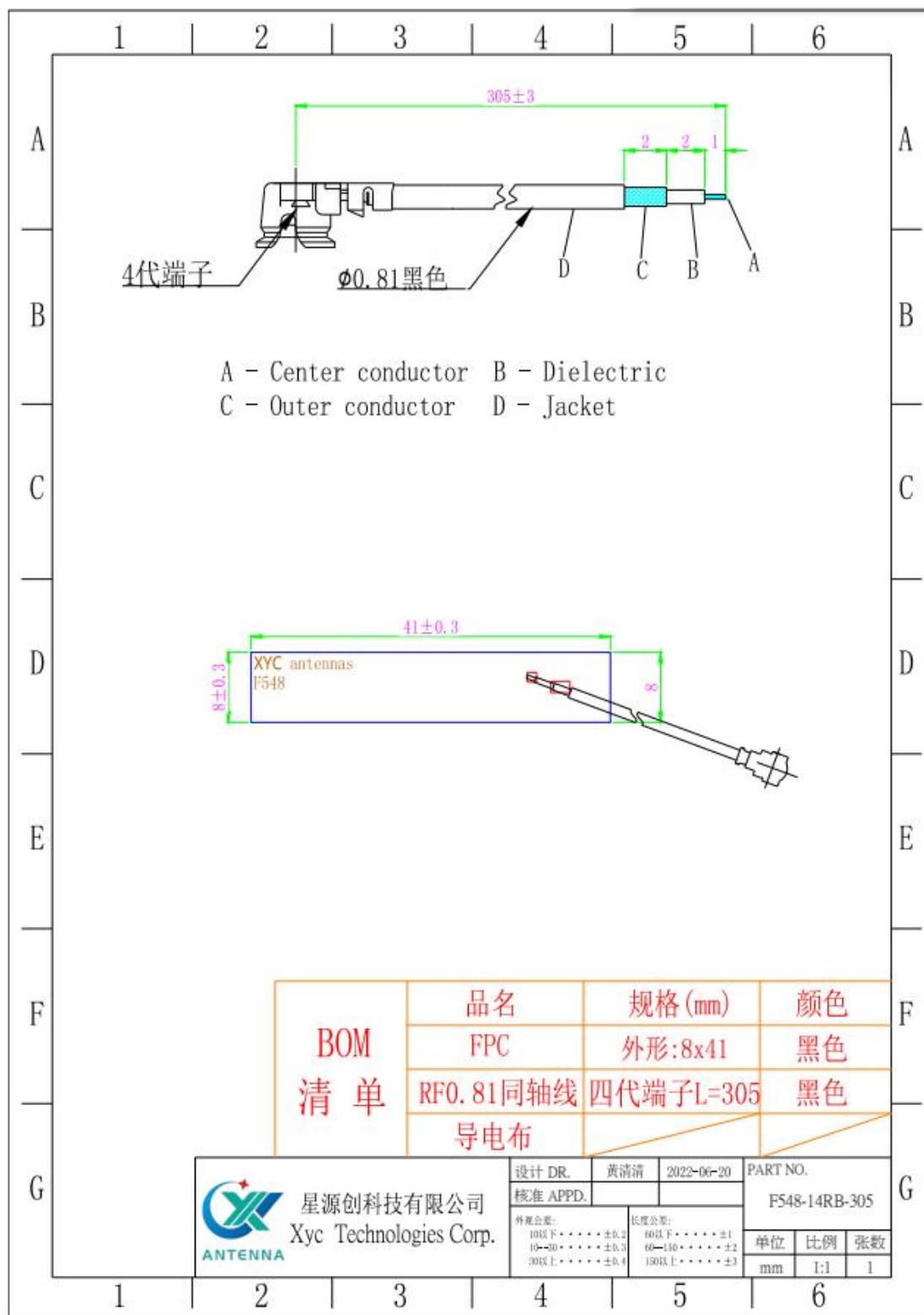
结果：播放音乐流畅，无杂音。



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Antenna Assembly

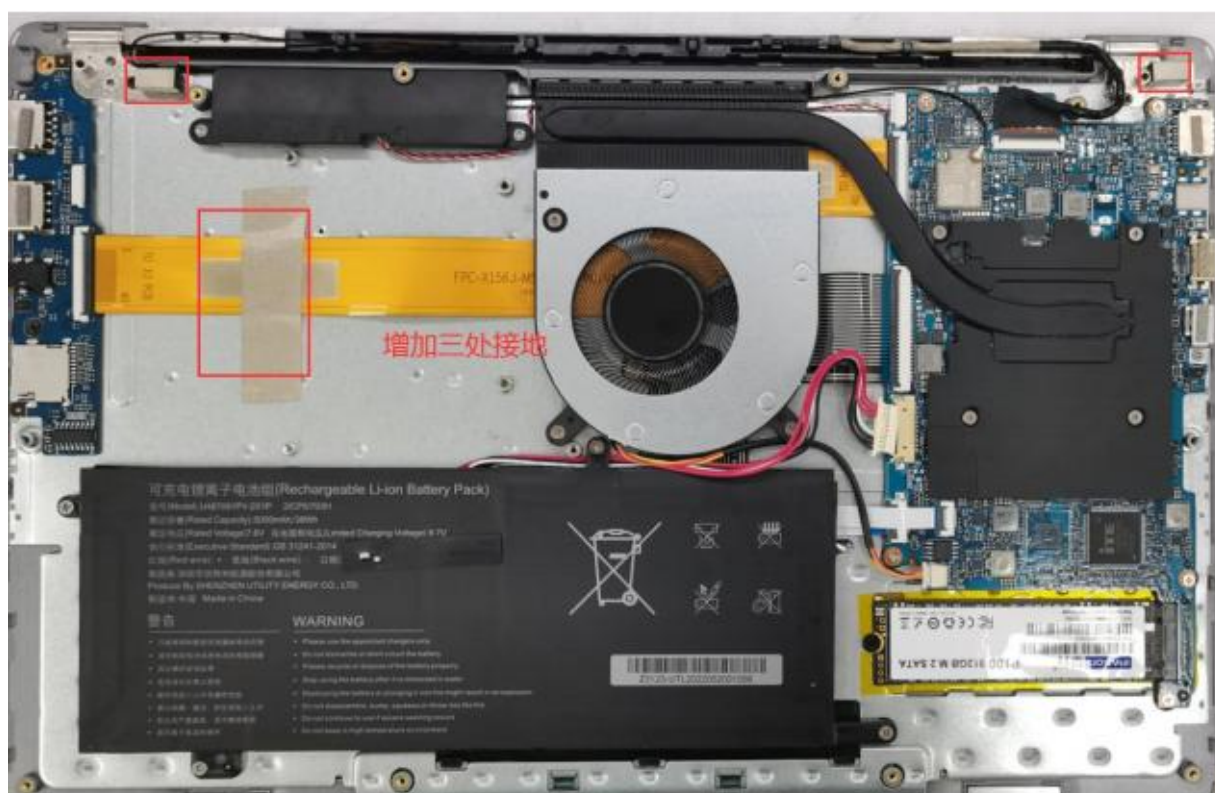


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Notes



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Inspection Standard

深圳市星源创科技有限公司	文件编码	XYC-WI-PZ-02	页号
	文件版本	A0	1 of 1
文件名称	抽样计划		

抽样水平对照表

特殊检查水平				一般检查水平			批量范围	样本字码	抽样数	0.65		1.0		1.5		2.5		4.0		6.0	
S-1	S-2	S-3	S-4	I	II	III				AC	RE	AC	RE	AC	RE	AC	RE	AC	RE	AC	RE
A	A	A	A	A	A	B	2---8	A	2	0	1	0	1	0	1	0	1	0	1	0	1
A	A	A	A	A	B	C	9---15	B	3	0	1	0	1	0	1	0	1	0	1	0	1
A	A	B	B	B	C	D	16---25	C	5	0	1	0	1	0	1	0	1	0	1	1	2
A	B	B	C	C	D	E	26---50	D	8	0	1	0	1	0	1	0	1	1	2	1	2
B	B	C	C	C	E	F	51---90	E	13	0	1	0	1	0	1	1	2	1	2	2	3
B	B	C	D	D	F	G	91---150	F	20	0	1	0	1	1	2	1	2	2	3	3	4
B	C	D	E	E	G	H	151---280	G	32	0	1	1	2	1	2	2	3	3	4	5	6
B	C	D	E	F	H	J	281---500	H	50	1	2	1	2	2	3	3	4	5	6	7	8
C	C	E	F	G	J	K	501---1200	J	80	1	2	2	3	3	4	5	6	7	8	10	11
C	D	E	G	H	K	L	1201---3200	K	125	2	3	3	4	5	6	7	8	10	11	14	15
C	D	F	G	J	L	M	3201---10000	L	200	3	4	5	6	7	8	10	11	14	15	21	22
C	D	F	H	K	M	N	10001---35000	M	315	5	6	7	8	10	11	14	15	21	22	21	22
D	E	G	J	L	N	P	35001---150000	N	500	7	8	10	11	14	15	21	22	21	22	21	22
D	E	G	J	M	P	Q	150001---500000	P	800	10	11	14	15	21	22	21	22	21	22	21	22
D	E	H	K	N	Q	R	500001and over	Q	1250	14	15	21	22	21	22	21	22	21	22	21	22
								R	2000	21	22	21	22	21	22	21	22	21	22	21	22

AC为合格项 RE为不合格项

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Outgoing Inspection Report



深圳市星源创科技有限公司 出货检验报告

客户	思宇星	品名规格	主天线	出货数量	5	抽样数量	2	
机型	I1401-P3		料号	F548-14RB-305		出货日期	2022/12/10	
检验标准	☒ 正常检验 ☐ 加严检验 ☐ 减量检验							
抽样方式	MIL-STD-105D (II) 单次抽样 接受限 AQL:CR: 0 Maj: 2.5 Min: 4.0							
质量允收水平			CR Acc	0	Maj ACC	0	Min ACC	0
			CR REJ	1	Maj REJ	1	Min REJ	1
项目	检验内容	检验要求	检验方法	检验结果				判定
				1	2	3	4	
尺寸检验	线总长	305±3	直尺	305	305			合格
	FPC外形	8±0.3	卡尺	8	8			合格
	FPC外形	41±0.3	卡尺	41.0	40.9			合格
项目	检验内容	检验要求	检验方法	缺陷描述	CR	Maj	Min	判定
外观检验	线外皮	外被有无刮伤现象	目视	无异常	0	0	0	合格
	焊盘加锡	无氧化、锡尖等现象	目视	无异常	0	0	0	合格
	IPEX	无缺料, 烈痕, 色差, 缩水, 烫伤, 无氧化、变色、变形脱线等不良现象	目视	无异常	0	0	0	合格
电气特性								
其它								
最终判定	☒ OK ☐ NG							

表格编号: XYC-WF-PZ-001

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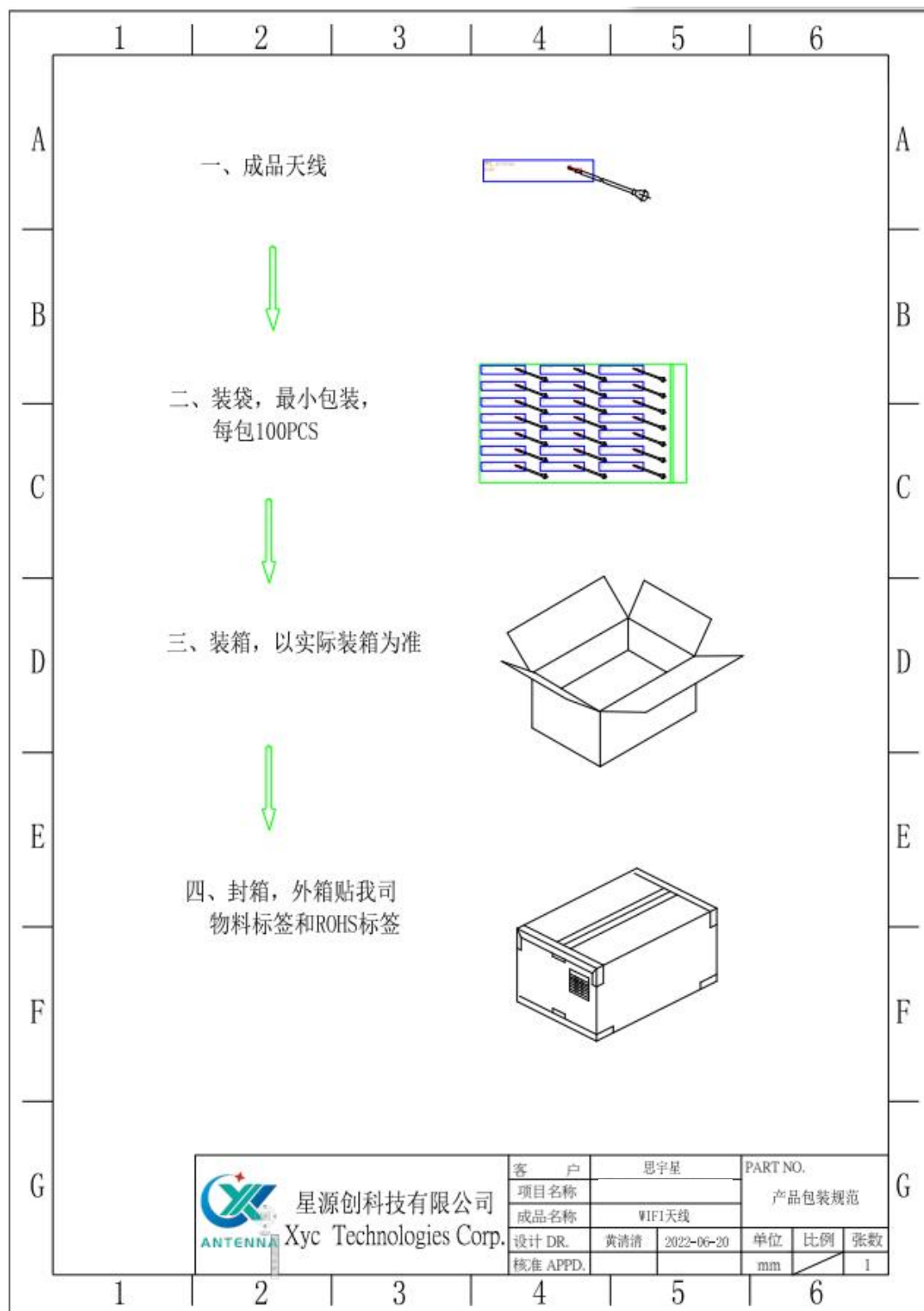
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Packing Specification



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