



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	索沃思	日期 Data	2025/07/03
产品名称 Product	WiFi/BT天线	客户机型 Models	A16
料号 P/N	T506B-13RB-055	客户料号 Customer P/N	3010809000003
规格描述 Specifications	黑色FPC; RF0.81三代端子黑色同轴线, L=55mm		

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



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Specification

1.1 Electrical Properties

Characteristics	Specifications
Working Band	2.4GWiFi/BT; 5GWiFi
Antenna From	PIFA
Impedance	50 Ω
Polarization	Linear
Peak Effi	39%@2.4G; 27%@5G
Peak Gain	-0.3dBi@2.4G; 0.8dBi@5G

1.2 Physical Properties

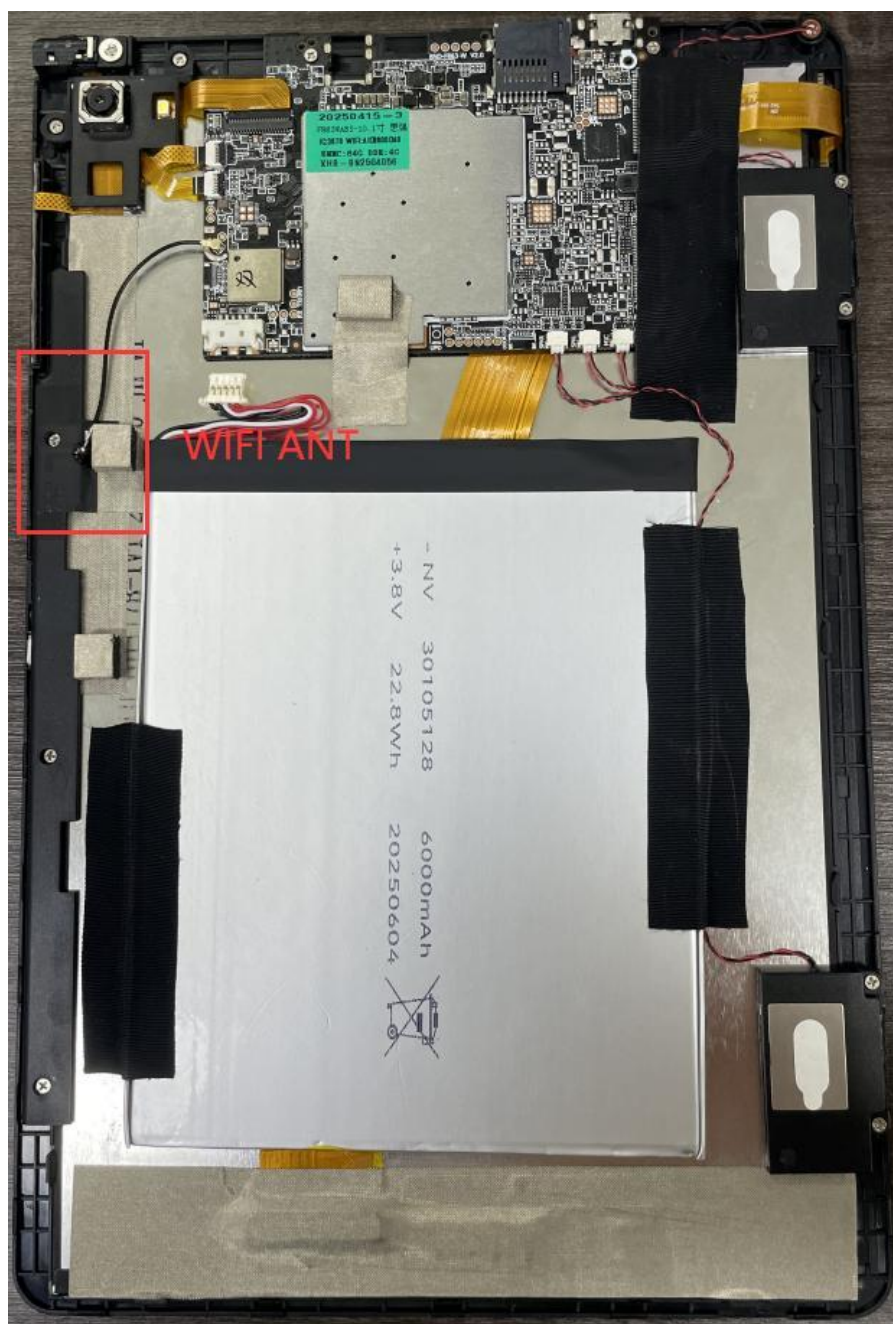
Characteristics	Specifications
Operating Temp	-10°C ~+60°C
Storage Temp	-10°C ~+70°C
Humidity	10~95%RH



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Antenna Placement



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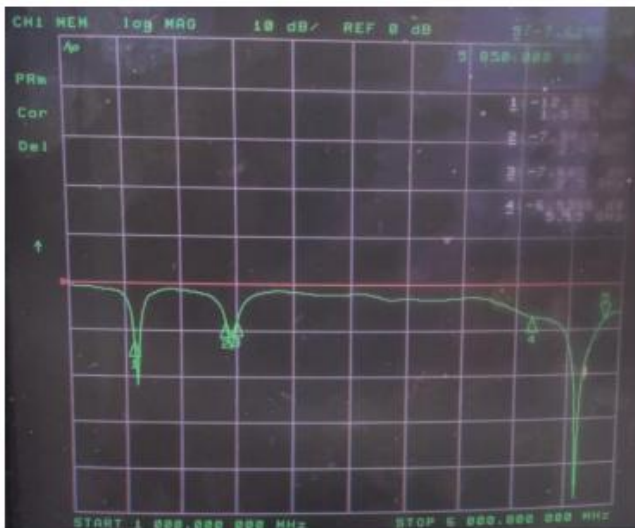
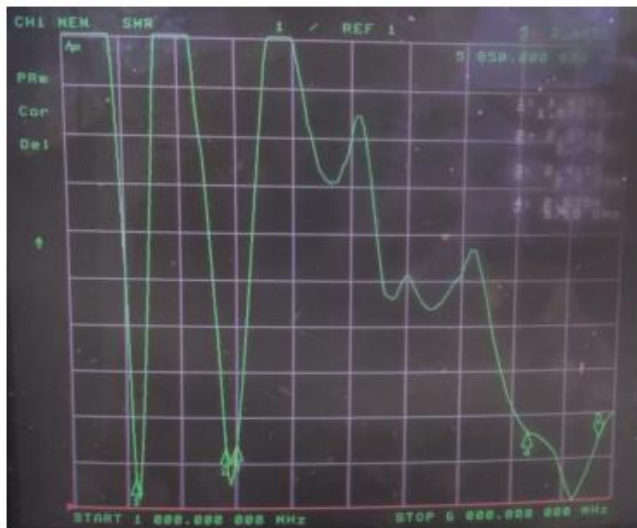
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Test Data

S11 Parameter-VSWR



Frequency(MHZ)	2400	2500	5150	5850
VSWR	2.33	2.41	2.63	2.42
Return Loss(DB)	-7.41	-7.66	-6.93	-7.62

Efficiency Table (2.4G)

Passive Test For						
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)
2400	31.76	-4.98	-0.42	-2.57	17.884	13.872
2410	28.7	-5.42	-1.16	-3.31	15.88	12.822
2420	32.16	-4.93	-0.84	-2.99	17.765	14.391
2430	32.02	-4.95	-1.05	-3.2	17.737	14.284
2440	32.46	-4.89	-1.04	-3.19	17.912	14.55
2450	32.25	-4.92	-1.1	-3.25	17.526	14.72
2460	34.83	-4.58	-0.64	-2.79	18.735	16.096
2470	36.88	-4.33	-0.37	-2.52	19.742	17.134
2480	37.24	-4.29	-0.52	-2.67	19.735	17.506
2490	39.53	-4.03	-0.51	-2.66	20.711	18.816
2500	38.74	-4.12	-0.79	-2.94	20.181	18.559

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Efficiency Table (5G)

Passive Test For						
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)
5150	14.68	-8.33	-1.17	-3.32	7.433	7.251
5170	15.95	-7.97	-1.12	-3.27	7.852	8.096
5190	16.2	-7.9	-1.82	-3.97	7.589	8.612
5210	19.49	-7.1	-0.68	-2.83	8.791	10.701
5230	17.85	-7.48	-0.73	-2.88	7.836	10.019
5250	21.37	-6.7	0.28	-1.87	9.282	12.091
5270	21.41	-6.69	0.54	-1.61	9.298	12.116
5290	24	-6.2	0.82	-1.33	10.646	13.355
5310	21.69	-6.64	-0.02	-2.17	9.824	11.863
5330	21.15	-6.75	-0.52	-2.67	9.74	11.411
5350	21.89	-6.6	-0.42	-2.57	10.287	11.6
5370	20.55	-6.87	-0.81	-2.96	9.87	10.675
5390	19.52	-7.1	-1	-3.15	9.656	9.862
5410	21.72	-6.63	-0.35	-2.5	11.029	10.694
5430	21.82	-6.61	-0.23	-2.38	11.227	10.596
5450	22.29	-6.52	-0.02	-2.17	11.741	10.551
5470	21.89	-6.6	0.08	-2.07	11.759	10.133
5490	20.96	-6.79	0.13	-2.02	11.367	9.596
5510	22.12	-6.55	0.51	-1.64	12.024	10.094
5530	21.91	-6.59	0.35	-1.8	11.96	9.95
5550	23.48	-6.29	0.52	-1.63	13.024	10.459
5570	21.96	-6.58	0.17	-1.98	12.142	9.82
5590	22.9	-6.4	0.25	-1.9	12.607	10.291
5610	20	-6.99	-0.49	-2.64	10.977	9.023
5630	20.47	-6.89	-0.38	-2.53	11.239	9.231
5650	19.18	-7.17	-0.61	-2.76	10.346	8.831
5670	21.97	-6.58	0.05	-2.1	11.649	10.326
5690	20.36	-6.91	-0.57	-2.72	10.647	9.717
5710	22.21	-6.53	-0.42	-2.57	11.567	10.644
5730	23.14	-6.36	-0.41	-2.56	11.973	11.164
5750	22.26	-6.53	-0.69	-2.84	11.471	10.788
5770	24.27	-6.15	-0.7	-2.85	12.375	11.895
5790	22.22	-6.53	-0.8	-2.95	11.15	11.066
5810	24.14	-6.17	-0.01	-2.16	12.064	12.073
5830	23.81	-6.23	-0.02	-2.17	11.924	11.887
5850	27	-5.69	0.79	-1.36	13.5	13.496

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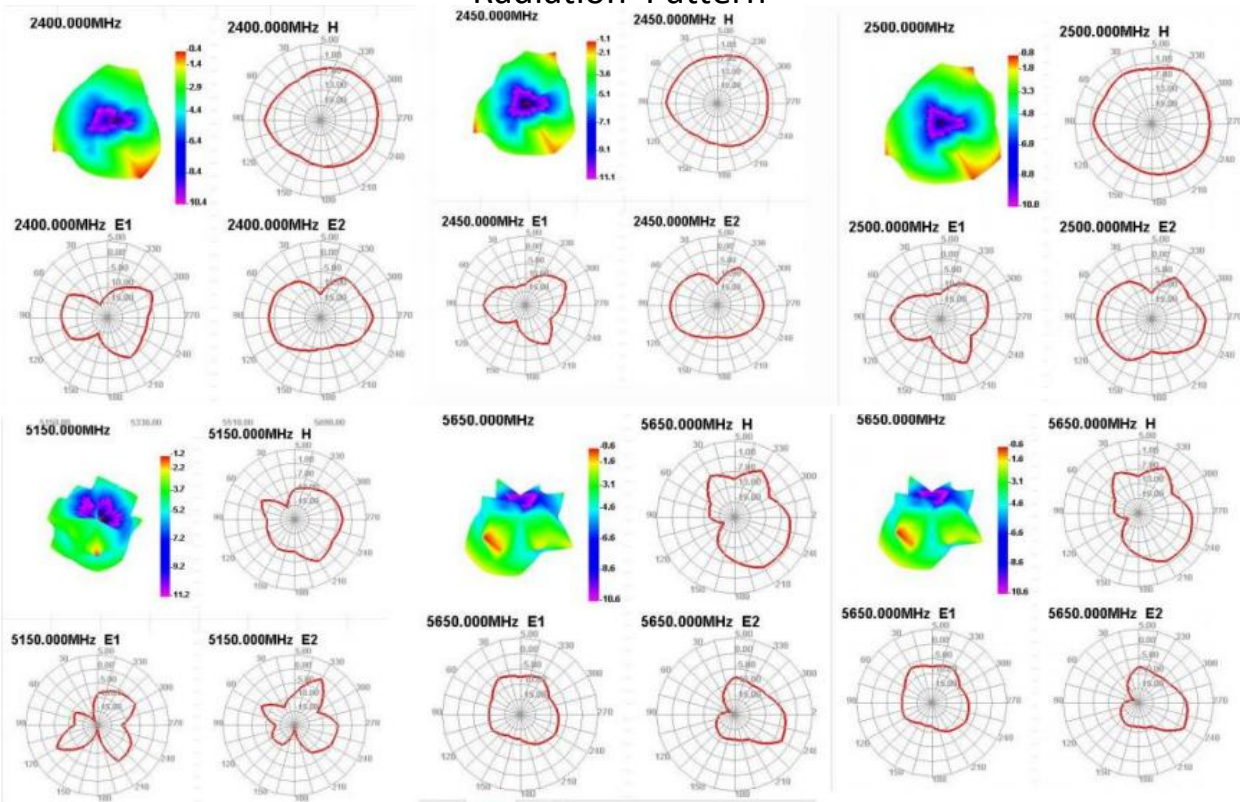
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Radiation Pattern



WIFI/BT Measured

WIFI

测试环境: 开放空间

测试工具: Wifi Analytical Assistant

测试距离: 10/m

信号强度: 2.4G :-41dBm 5G:-47dBm

测试结果如右图

BT

测试环境: 开放空间(通道)

测试工具: 蓝牙音响

测试距离: 10/m

结果: 播放音乐流畅, 无杂音。

XYC2022	TP-LINK	-41	2442	7
ChinaNet-HtBu	00:6b:6f:5f:7e:e4	-42	2412	1
↖	08:79:8c:1d:57:48	-42	2437	6
↖	00:6b:6f:5f:7e:e8	-44	5180	36
↖	08:79:8c:1d:57:4c	-45	5180	36
< Hidden SSID >	08:79:8c:1d:57:4b	-42	2437	6
XYC2023_5G	72:85:c4:93:7d:ad	-42	5300	60
XYC2023	70:85:c4:73:7d:ad	-43	2422	3
TP-LINK_5G2_9660	TP-LINK	-44	5785	157
< Hidden SSID >	08:79:8c:1d:57:4f	-45	5180	36
HUAWEI-1F33TW	02:a3:26:30:52:c2	-47	2462	11
XYC2022-5G	TP-LINK	-47	5200	40
< Hidden SSID >	72:85:c4:53:7d:ad	-48	2422	3
NETGEAR95	6c:c4:d6:07:22:e8	-49	2447	8
HUAWEI-1F33TW_5G	02:a3:26:30:52:c6	-53	5180	36
GAOFEI888	68:1b:ef:e2:da:7c	-60	2437	6
13A08	58:b3:8f:5b:94:13	-63	2462	11
HKUX-5G	80:ae:54:f2:af:20	-66	5200	40
HKUX	80:ae:54:f2:af:1f	-68	2412	1
GAOFEI888-5G	68:1b:ef:e2:da:80	-74	5180	36
1503	68:77:da:4c:11:83	-74	5240	48
XAD	7a:3a:20:c7:56:8d	-75	2412	1
HUAWEI-J1FR1F	82:22:97:4e:d4:ca	-75	2412	1
< Hidden SSID >	76:77:da:4c:11:83	-75	5240	48
augvape1501-5G	08:79:8c:24:48:00	-76	5180	36
↖	00:6b:6f:67:4e:34	-80	5180	36
< Hidden SSID >	08:79:8c:24:48:03	-78	5180	36
2505	a0:10:77:1d:99:10	-82	2437	6
TP-LINK_15099	TP-LINK	-87	2442	7
13A08_5G	58:b3:8f:5b:94:16	-87	5825	165

EXPORT CURRENT STATE(TEXT)

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WiFi Active Test Data

802.11b	Frequency	TRP		TIS	
	2412	CH1 11Mbps	15.61	CH1 11Mbps	-76.16
	2437	CH6 11Mbps	15.25	CH6 11Mbps	-77.78
	2467	CH11 11Mbps	15.44	CH11 11Mbps	-77.92
802.11g		TRP		TIS	
	2412	CH1 54Mbps	15.24	CH1 54Mbps	-64.63
	2437	CH6 54Mbps	15.34	CH6 54Mbps	-66.90
	2467	CH11 54Mbps	15.52	CH11 54Mbps	-66.39
802.11a		TRP		TIS	
	5180	CH36 6Mbps	14.47	CH36 54Mbps	-68.36
	5300	CH60 6Mbps	14.59	CH60 54Mbps	-67.90
	5805	CH161 6Mbps	13.25	CH161 54Mbps	-67.94
802.11g/n		TRP		TIS	
	2412	CH1 MCS7	14.30	CH1 MCS7	-62.12
	2437	CH6 MCS7	15.58	CH6 MCS7	-64.32
	2467	CH11 MCS7	14.82	CH11 MCS7	-64.77

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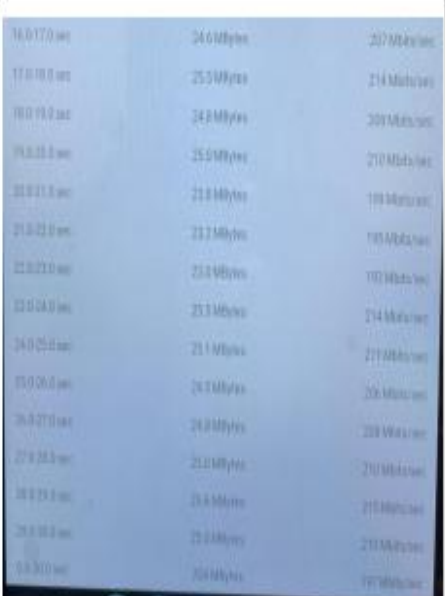
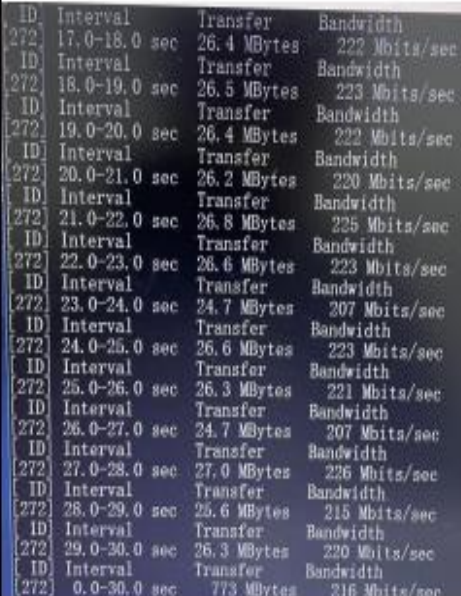
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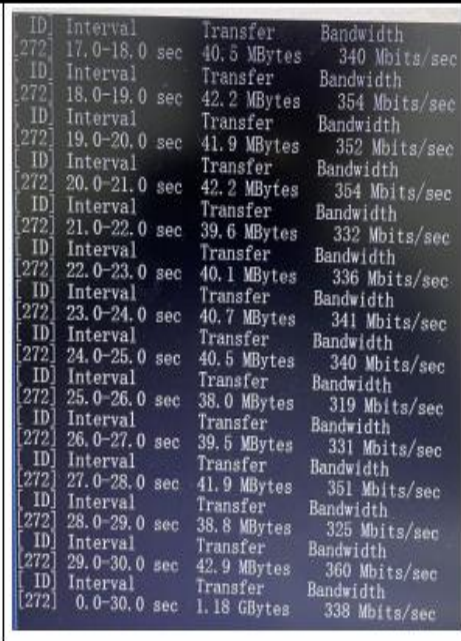
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Throughput Test(2.4G)

上行	197M	下行	216M
图片		图片	

Throughput Test(5G)

上行	304M	下行	338M
图片		图片	

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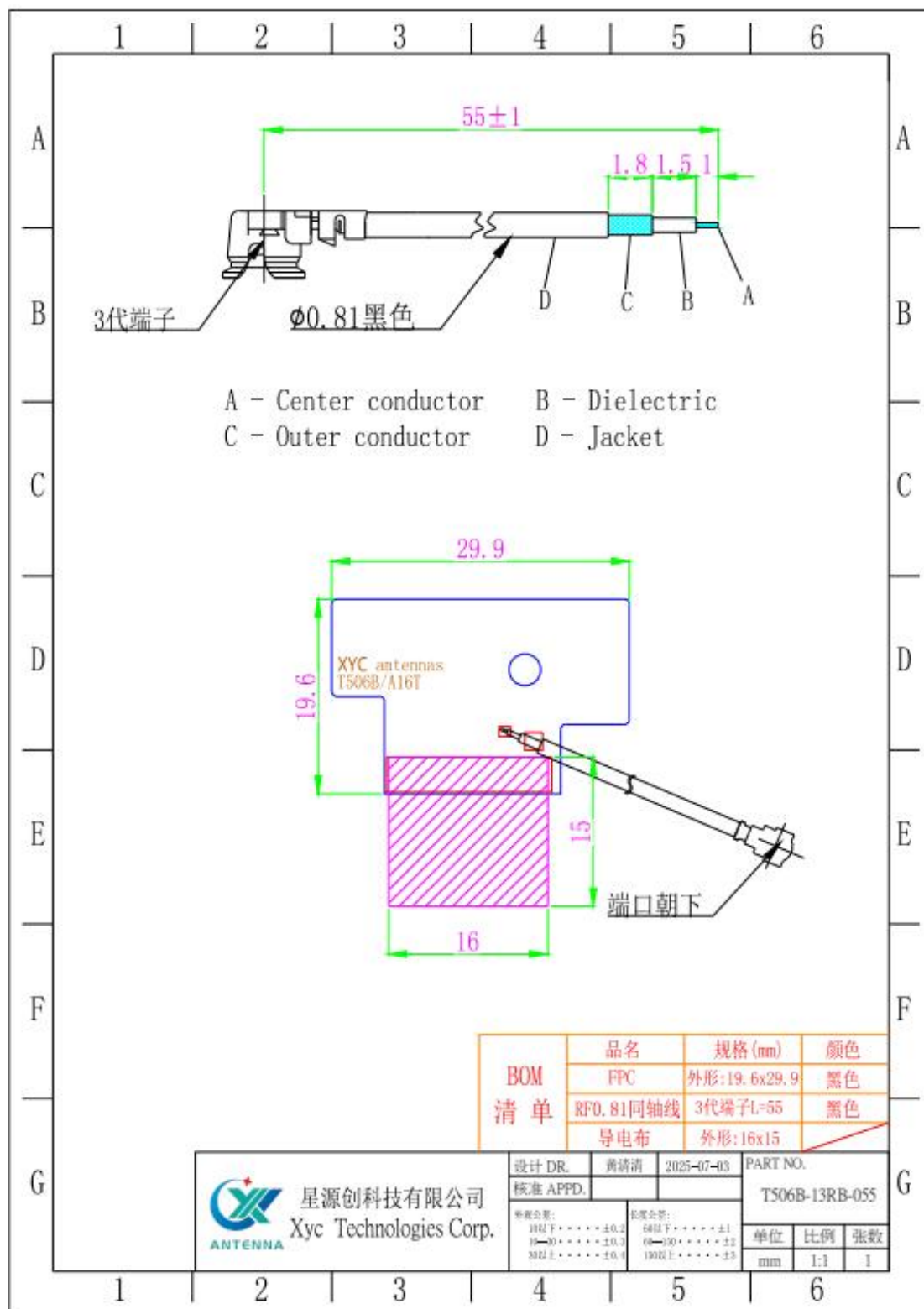
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Antenna Assembly

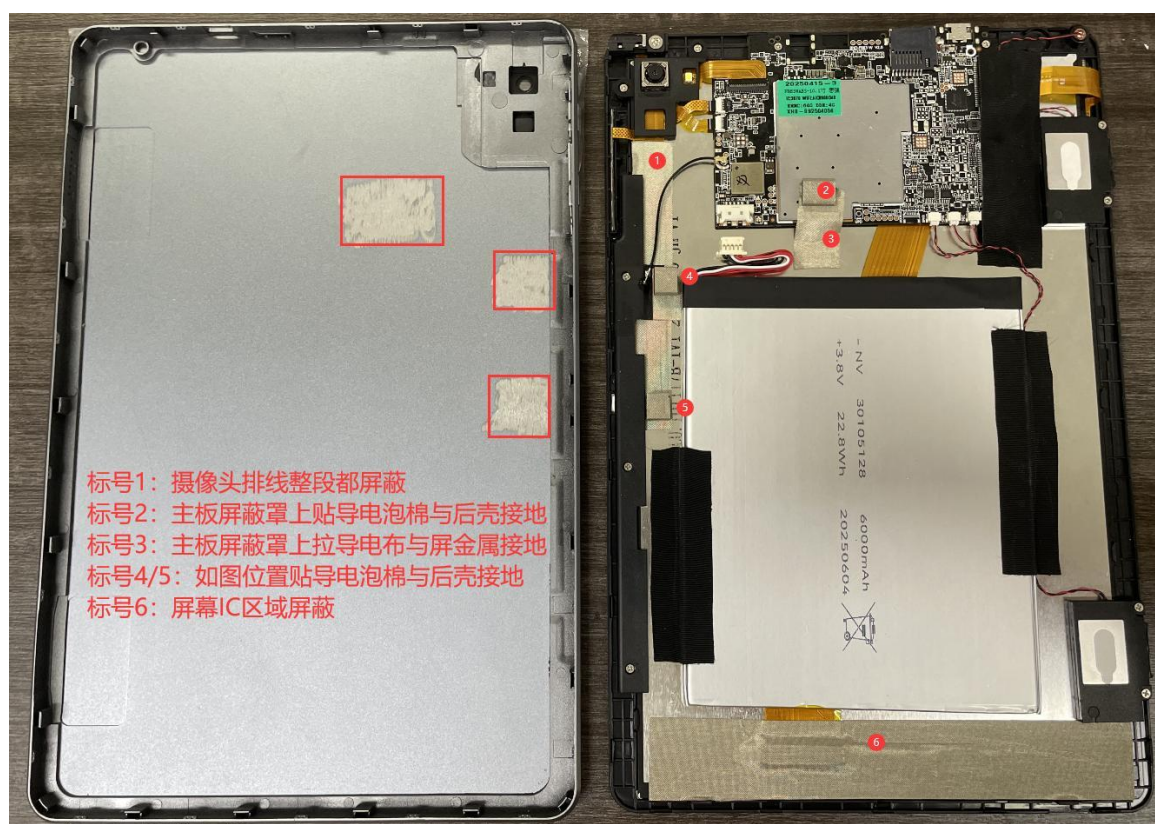
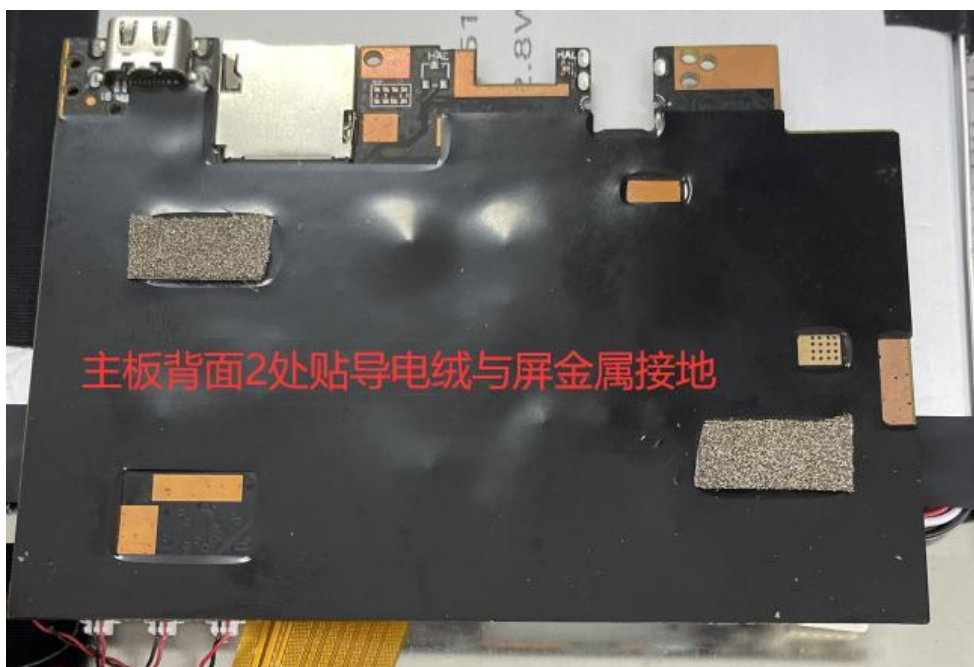


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Notes





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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Sample Inspection Report



深圳市星源创科技有限公司 样品检验报告

客户	索沃思	品名规格	WIFI天线	出货数量	5	抽样数量	2	
机型	A16		料号	T506B-13RB-055		出货日期	2025/07/03	
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: 0.4 Min: 1.5							
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	55±1	直尺	55	55			合格
	FPC外形	19.6±0.3	卡尺	19.6	19.6			合格
	FPC外形	29.9±0.3	卡尺	29.9	29.8			合格
项目	检验内容	检验要求	检验方法	缺陷描述	C R	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: XYZ-WF-PZ-001

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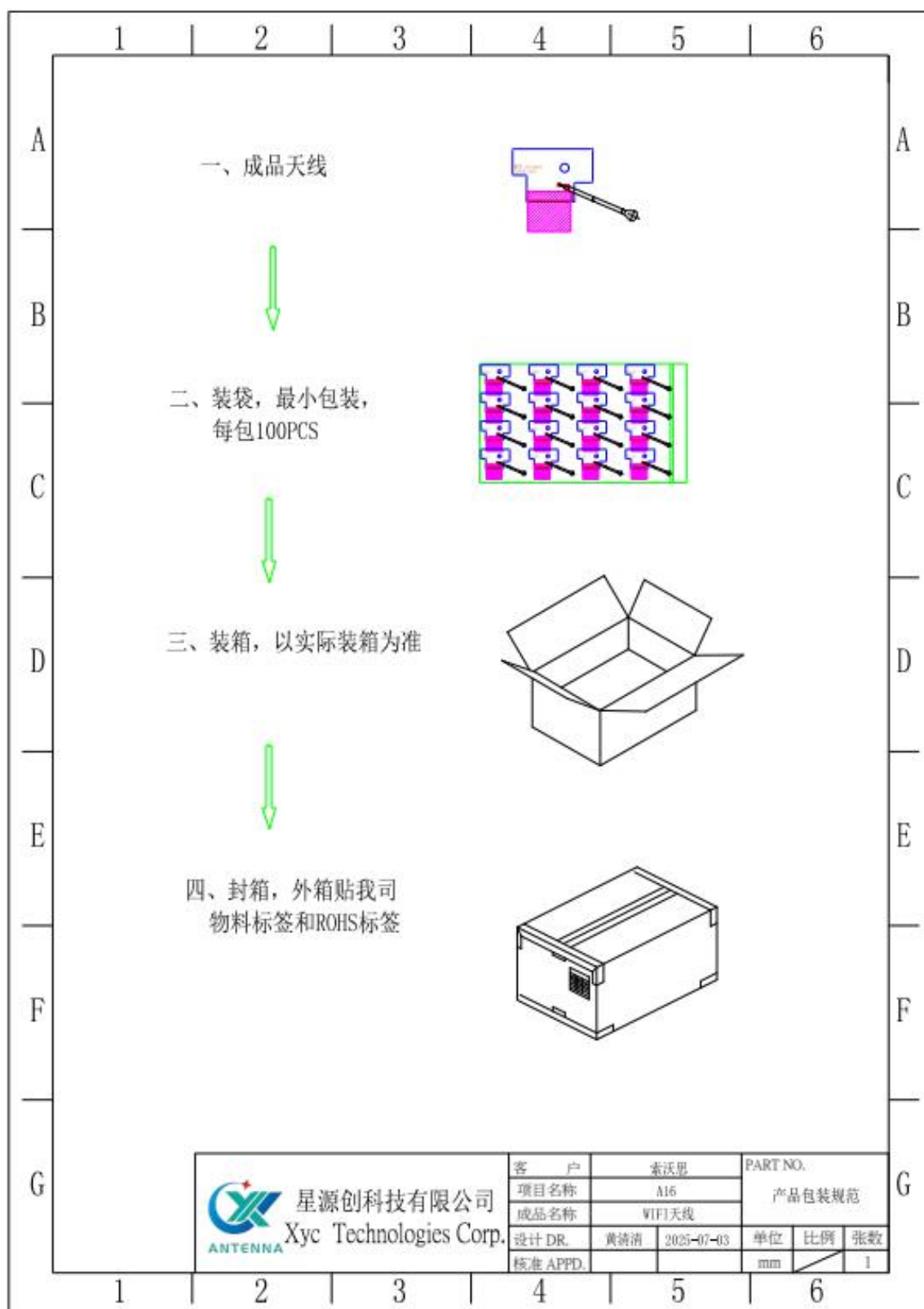
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