



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	亿莱顿	日期 Data	2023/03/10
产品名称 Product	WiFi天线	客户机型 Models	K709A
料号 P/N	F732-20RB-147	客户料号 Customer P/N	
规格描述 Specifications	黑色PCB,厚度0.2mm; MI-113黑色同轴线, L=147mm		

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
Antenna From	PIFA
Impedance	50 Ω
Polarization	Linear
Peak Effi	67%@2.4G
Peak Gain	3.6dBi@2.4G

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



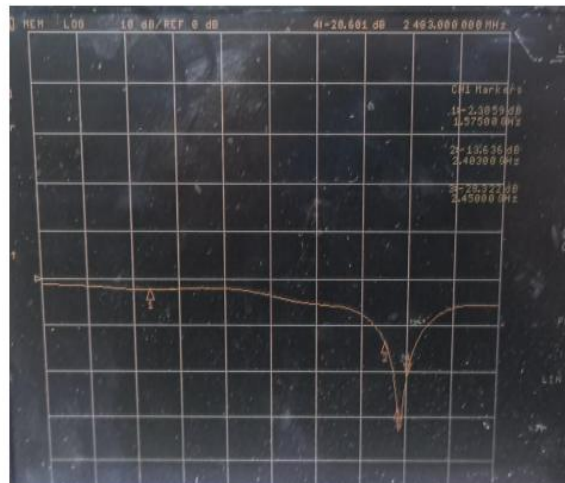
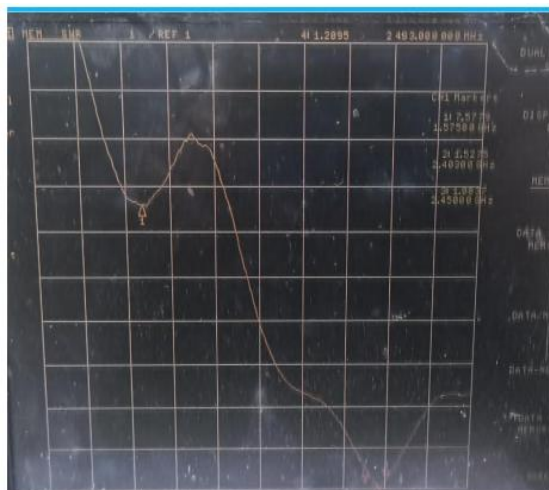
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Test Data

S11 Parameter-VSWR



Frequency (MHZ)	2400	2450	2483	1575		
VSWR	1.52	1.08	1.20			
Return Loss (DB)	-13.65	-28.30	-20.60			

WiFi Active Test Data

802.11b	Frequency	TRP		TIS	
	2412	CH1 11Mbps	17.19	CH1 11Mbps	-82.64
	2437	CH6 11Mbps	18.51	CH6 11Mbps	-81.47
	2467	CH11 11Mbps	16.67	CH11 11Mbps	-80.18

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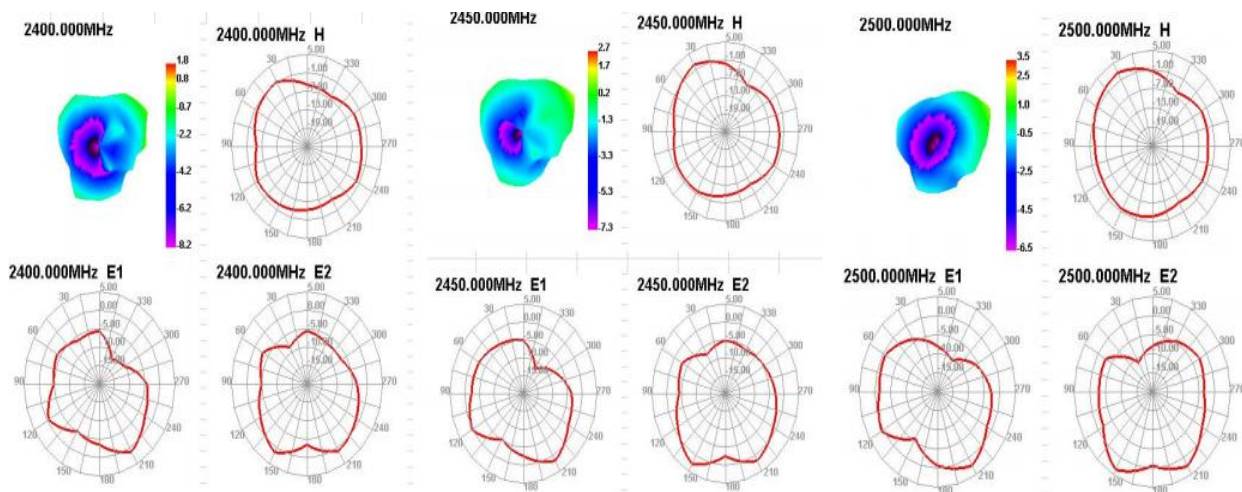
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Efficiency Table

Passive Test For WIFI2.4						
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)
2400	49.26	-3.07	1.75	-0.4	15.229	34.035
2410	48.06	-3.18	1.66	-0.49	14.723	33.333
2420	54.21	-2.66	2.22	0.07	16.802	37.404
2430	54.92	-2.6	2.42	0.27	17.495	37.42
2440	53.7	-2.7	2.38	0.23	17.552	36.144
2450	57.49	-2.4	2.69	0.54	19.061	38.426
2460	64.59	-1.9	3.33	1.18	21.579	43.014
2470	62.97	-2.01	3.24	1.09	21.272	41.701
2480	64.53	-1.9	3.39	1.24	22.128	42.402
2490	67.89	-1.68	3.62	1.47	23.446	44.447
2500	64.64	-1.89	3.53	1.38	22.497	42.147

Radiation Pattern

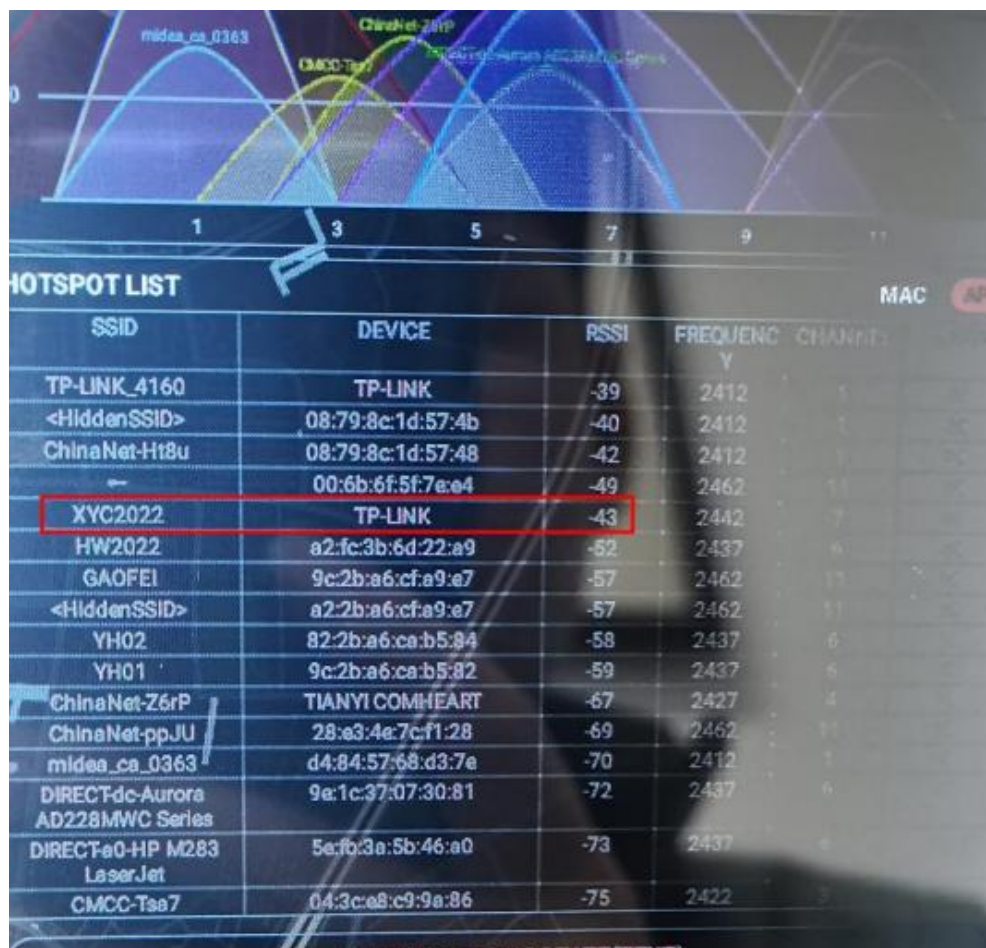


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WiFi/BT Measured



SSID	DEVICE	RSSI	FREQUENCY	CHANNEL	MAC
TP-LINK_4160	TP-LINK	-39	2412	1	
<HiddenSSID>	08:79:8c:1d:57:4b	-40	2412	1	
ChinaNet-Ht8u	08:79:8c:1d:57:48	-42	2412	1	
	00:6b:6f:5f:7e:e4	-49	2462	11	
XVC2022	TP-LINK	-43	2442	7	
HW2022	a2:fc:3b:6d:22:a9	-52	2437	6	
GAOFEI	9c:2b:a6:cf:a9:e7	-57	2462	13	
<HiddenSSID>	a2:2b:a6:cf:a9:e7	-57	2462	11	
YH02	82:2b:a6:ca:b5:84	-58	2437	6	
YH01	9c:2b:a6:ca:b5:82	-59	2437	6	
ChinaNet-Z6rP	TIANYI COMHEART	-67	2427	4	
ChinaNet-ppJU	28:a3:4e:7c:f1:28	-69	2462	11	
midea_ca_0363	d4:84:57:68:d3:7e	-70	2412	1	
DIRECTdc-Aurora	9e:1c:37:07:30:81	-72	2437	6	
AD228MWC Series					
DIRECTe0-HP M283	5e:fb:3a:5b:46:a0	-73	2437	6	
LaserJet					
CMCC-Tee7	04:3c:e8:c9:9a:86	-75	2422	3	

WIFI

测试环境：开放空间

测试工具：Wifi Analytical Assistant

测试距离：10m

信号强度：2.4G :-43dBm

BT

测试环境：开放空间(通道)

测试工具：蓝牙音响

测试距离：10m

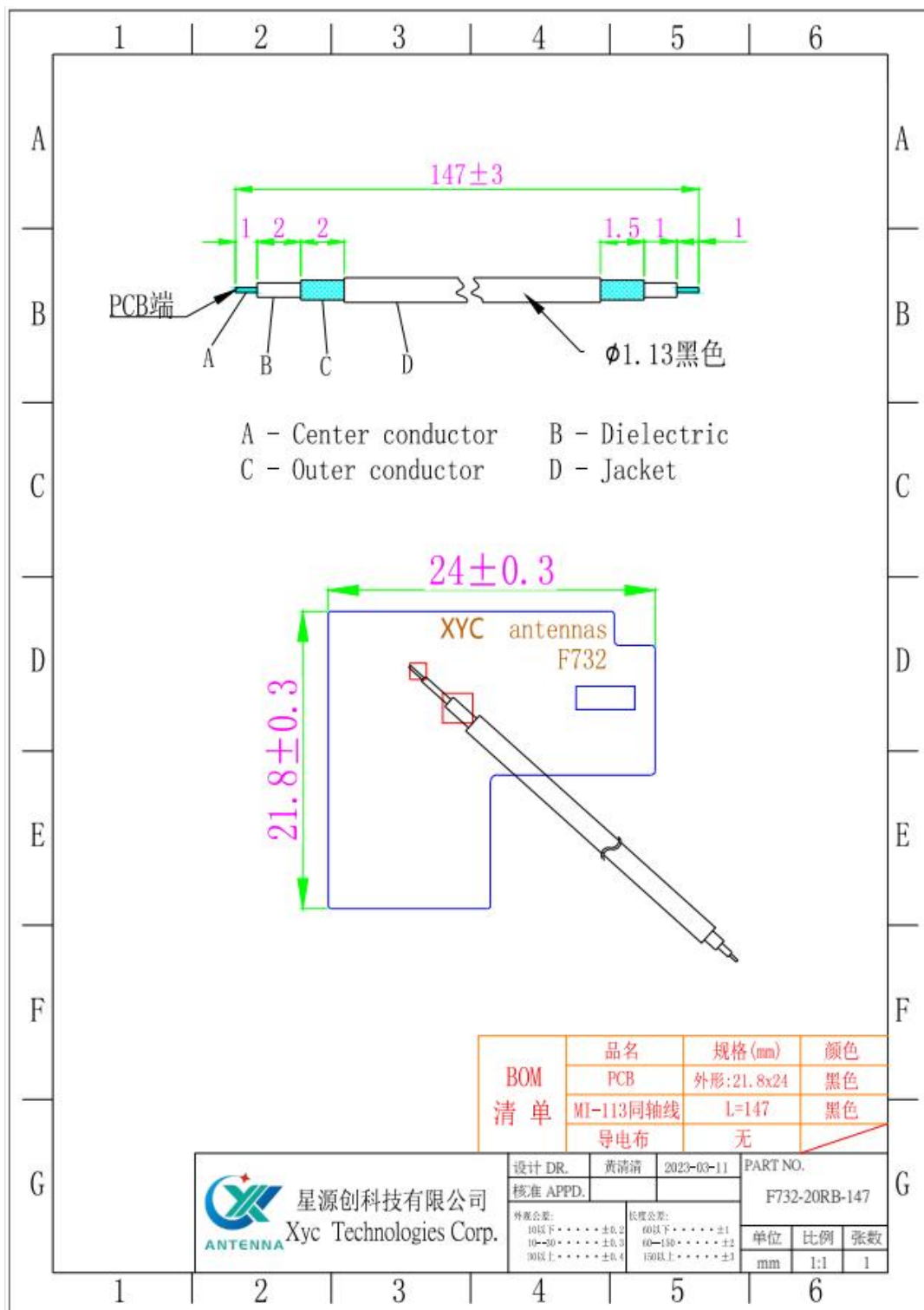
结果：播放音乐流畅，无杂音。



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Antenna Assembly

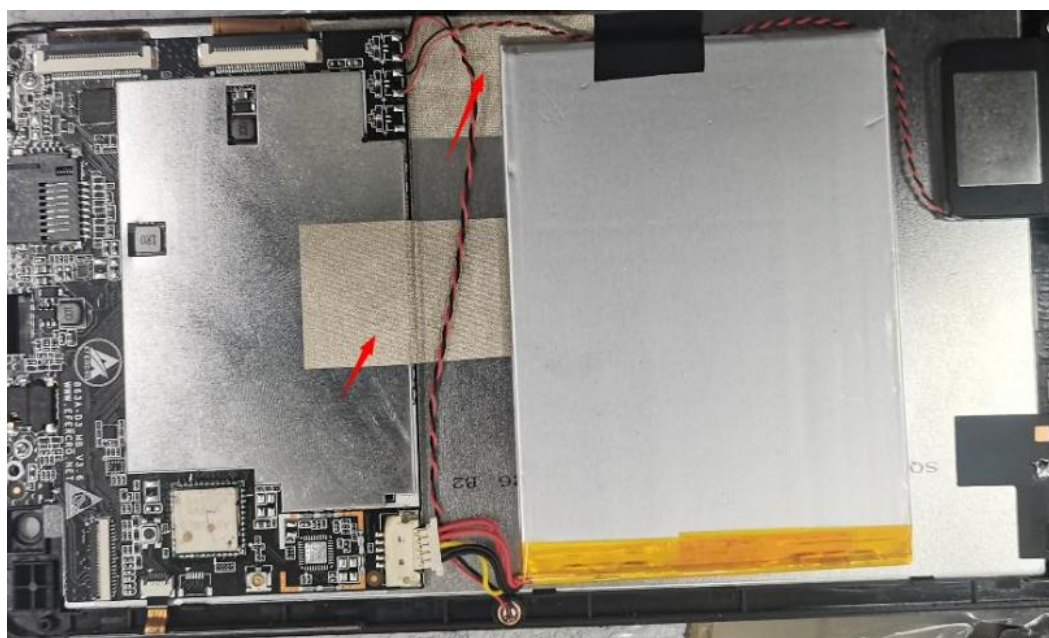
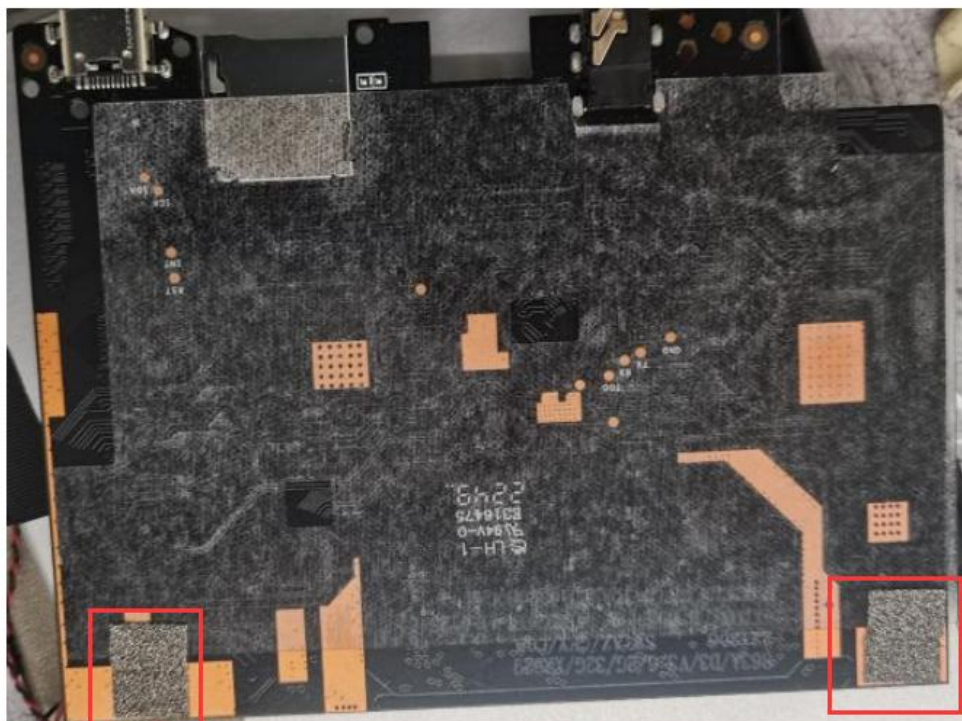


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