



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	K109A
料号 P/N	F902-12RB-123	客户料号 Customer P/N	
规格描述 Specifications	黑色FPC; RF0.81二代端子黑色同轴线, L=123mm		

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	50%@2.4G
Peak Gain	0.55dBi@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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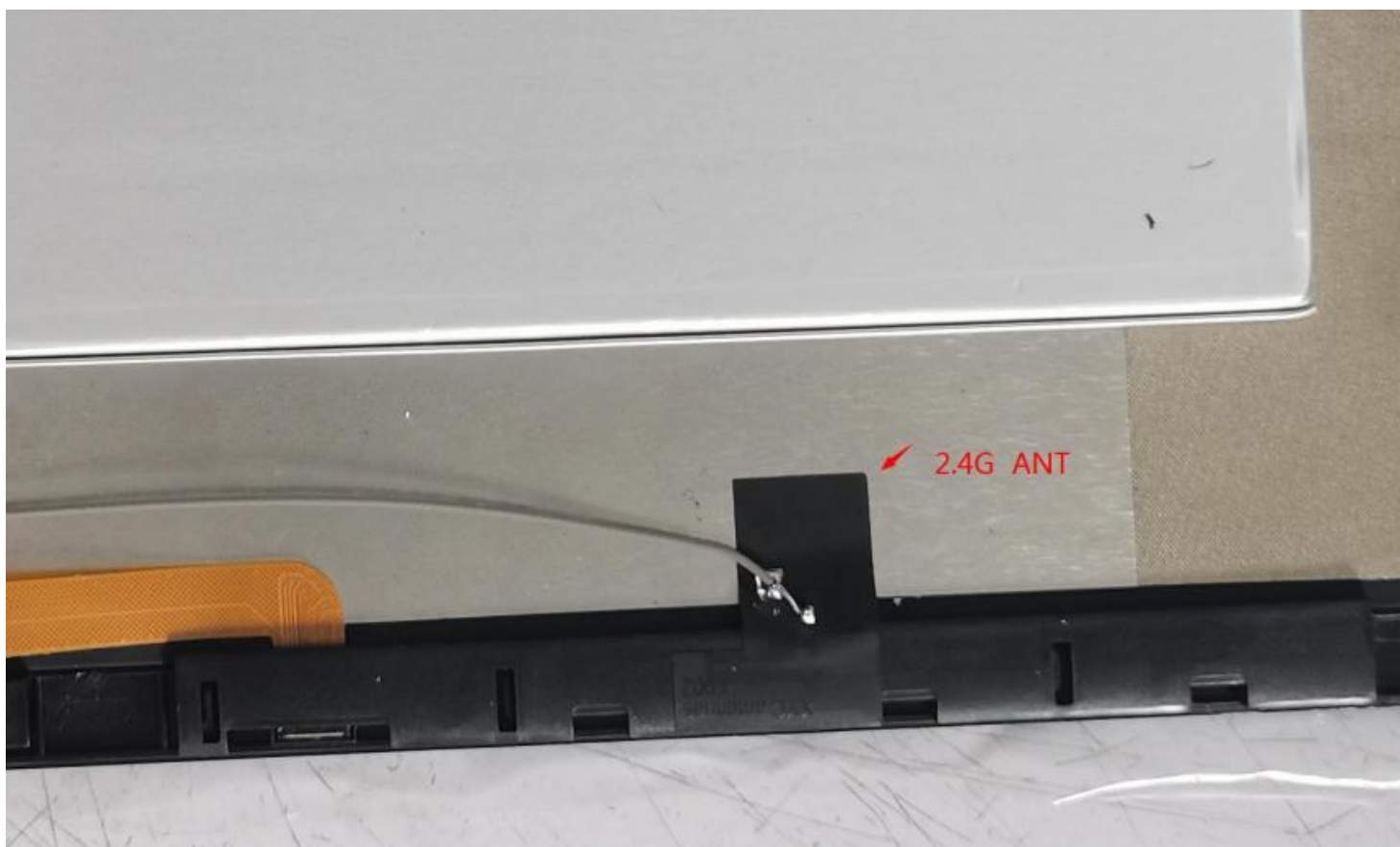
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Antenna Placement



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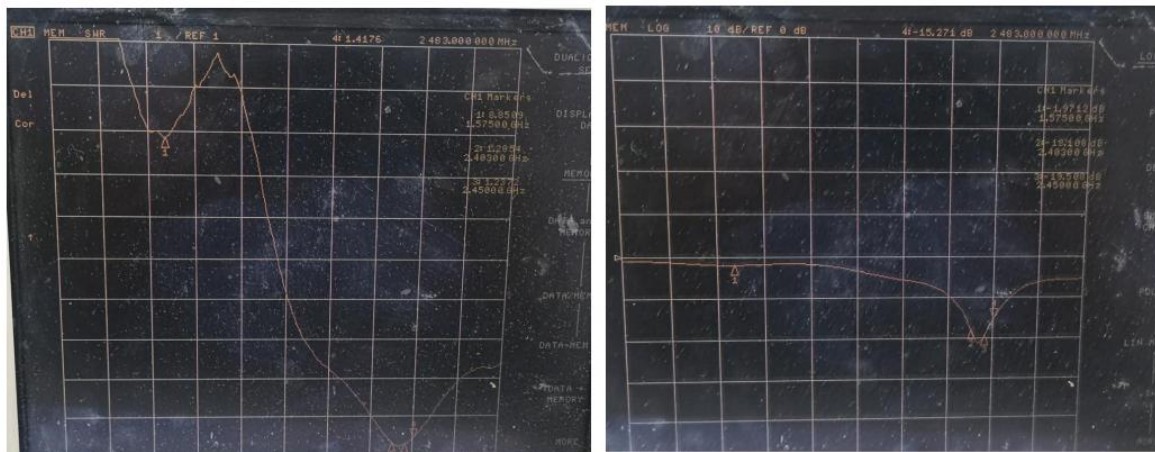
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Test Data

S11 Parameter-VSWR



Frequency (MHZ)	2400	2450	2483	1575		
VSWR	1.28	1.23	1.41			
Return Loss (DB)	-19.10	-19.51	-15.27			

WiFi Active Test Data

802.11b	Frequency	TRP		TIS	
	2412	CH1 11Mbps	17.27	CH1 11Mbps	-80.53
	2437	CH6 11Mbps	17.89	CH6 11Mbps	-81.93
	2467	CH11 11Mbps	17.59	CH11 11Mbps	-82.63

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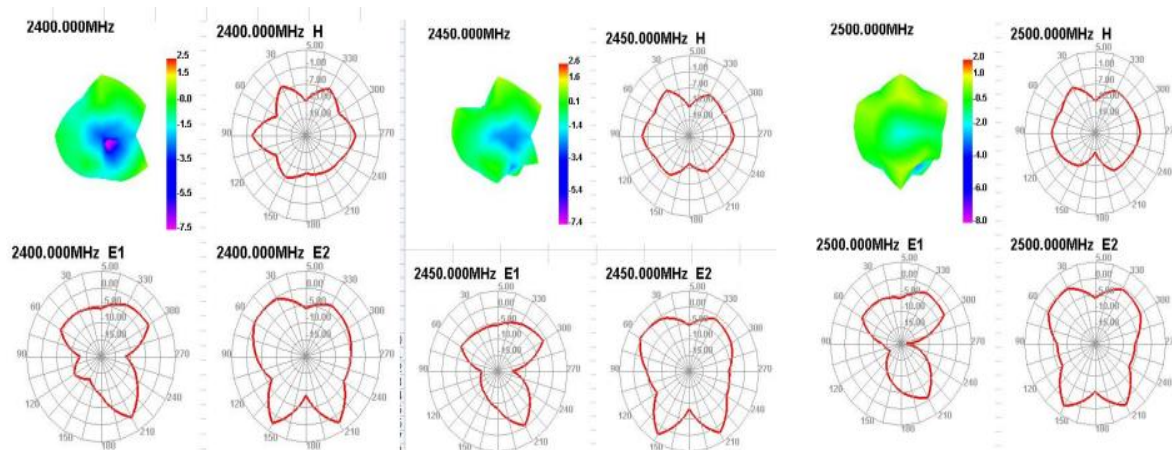
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Efficiency Table

Passive Test For WIFI2.4						
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBd)	Gain (dBi)	UHS (%)	DHS (%)
2400	48.62	-3.13	2.46	0.31	23.667	24.949
2410	46.16	-3.36	2.33	0.18	22.536	23.625
2420	47.52	-3.23	2.55	0.4	23.282	24.242
2430	47.65	-3.22	2.61	0.46	23.358	24.289
2440	48.22	-3.17	2.7	0.55	23.678	24.546
2450	47.32	-3.25	2.58	0.43	23.29	24.03
2460	46.39	-3.34	2.42	0.27	22.913	23.474
2470	48.83	-3.11	2.58	0.43	24.529	24.297
2480	50.28	-2.99	2.62	0.47	25.561	24.716
2490	48.44	-3.15	2.38	0.23	24.923	23.519
2500	43.77	-3.59	1.99	-0.16	23.01	20.76

Radiation Pattern



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WiFi/BT Measured



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

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：10m

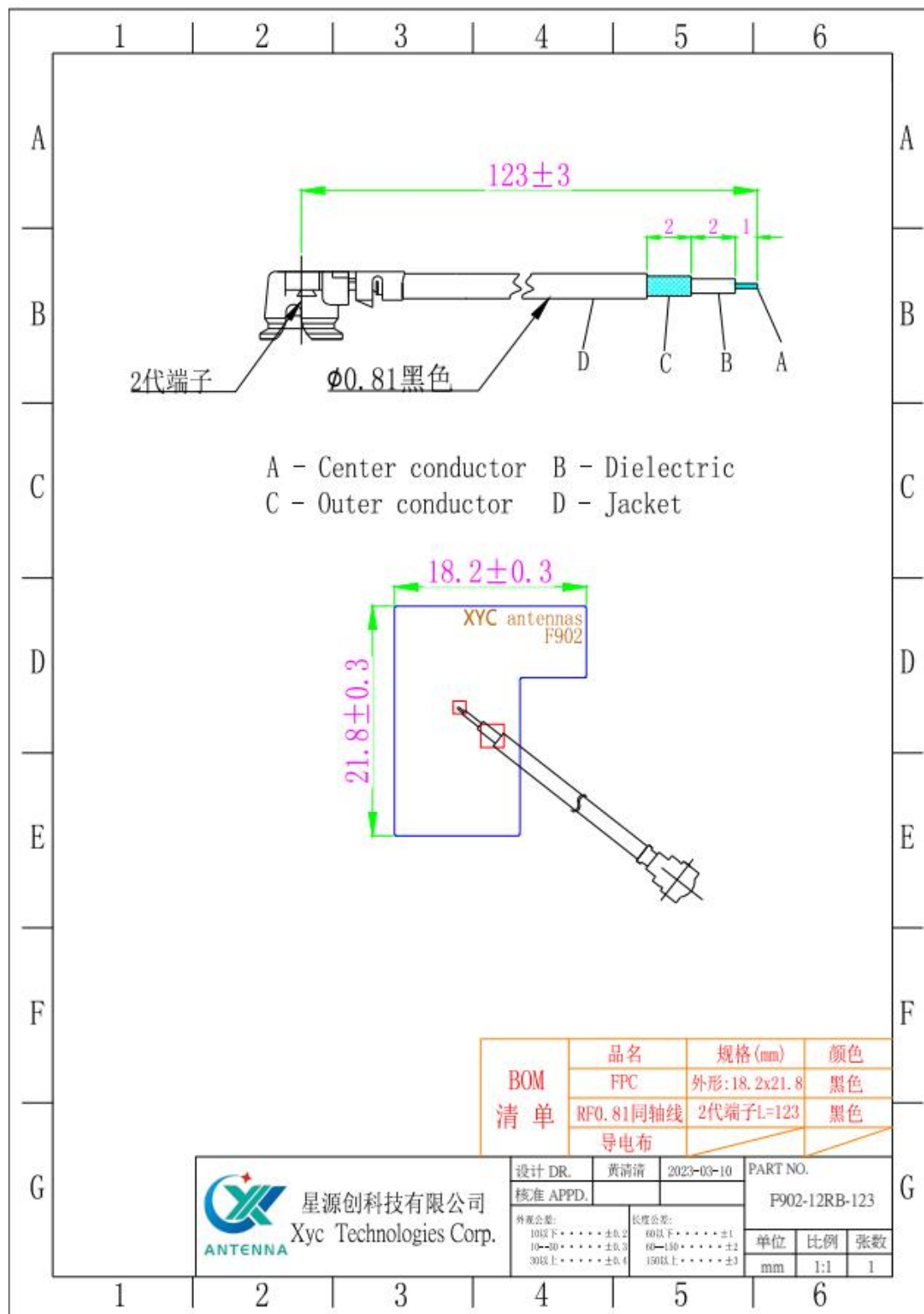
结果：播放音乐流畅，无杂音。



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Antenna Assembly



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