

JMGO

Sample Confirmation Letter

Supplier Name: Shenzhen ZTX Communication Technology Co., LTD.

Material Name:T912-12-002 WiFi1 Antenna 350mm Black ZTX

Material No: 23040261

Material Description: FPC+ Coaxial cable+Tube

Version: A0

Drawing Version: V1

Supplier Approved This needs to be stamped, and each acknowledgment letter needs to be stamped with a riding seal.			Shenzhen Holatek Approved		
R&D/Engineering	Quality	Approved	Industrial Design Department	R&D	Quality Management Department
Wang Pei Qin Le	 Zhang Zhao	Zou Guohua			

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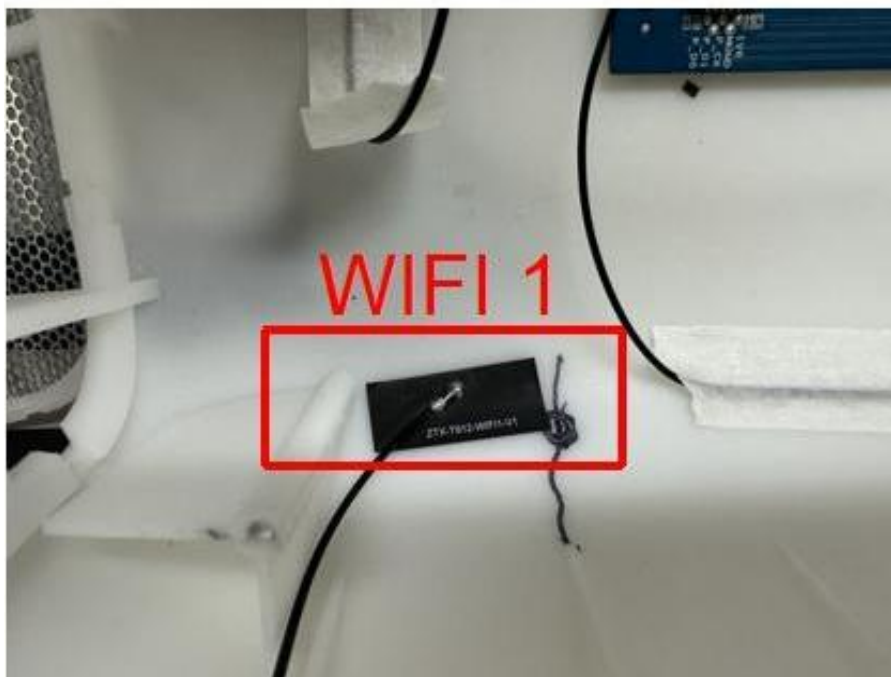
Revision history

Version	Date	Status
A0	2023/7/28	First edition

5. Project information

Frequency	2400Mhz~2500Mhz+5150Mhz ~ 5850Mhz
Impedance	50Ω
Antenna Gain	2.4G 4.6dBi
	5G 4.6dBi
Radiation	Omni-directional
Cable Type	Φ1.37mm
Operation Temperature	-20°C~+65°C
Storage Temperature	-40°C~+80°C

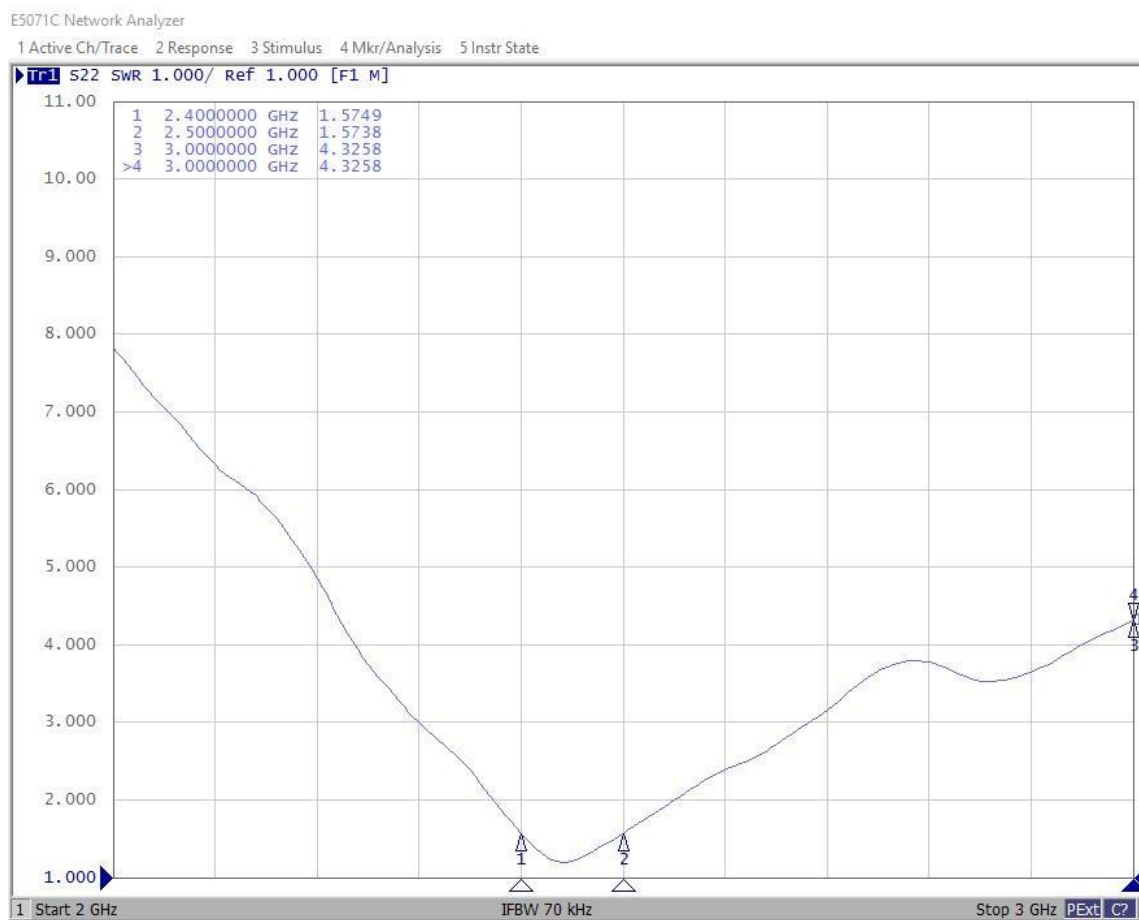
6. Environment treatment



7. Test Results Summary

7.1 VSWR

Freq(GHz)	2.40	2.50	5.15	5.85
VSWR	1.1533	1.3311	1.3149	1.3014



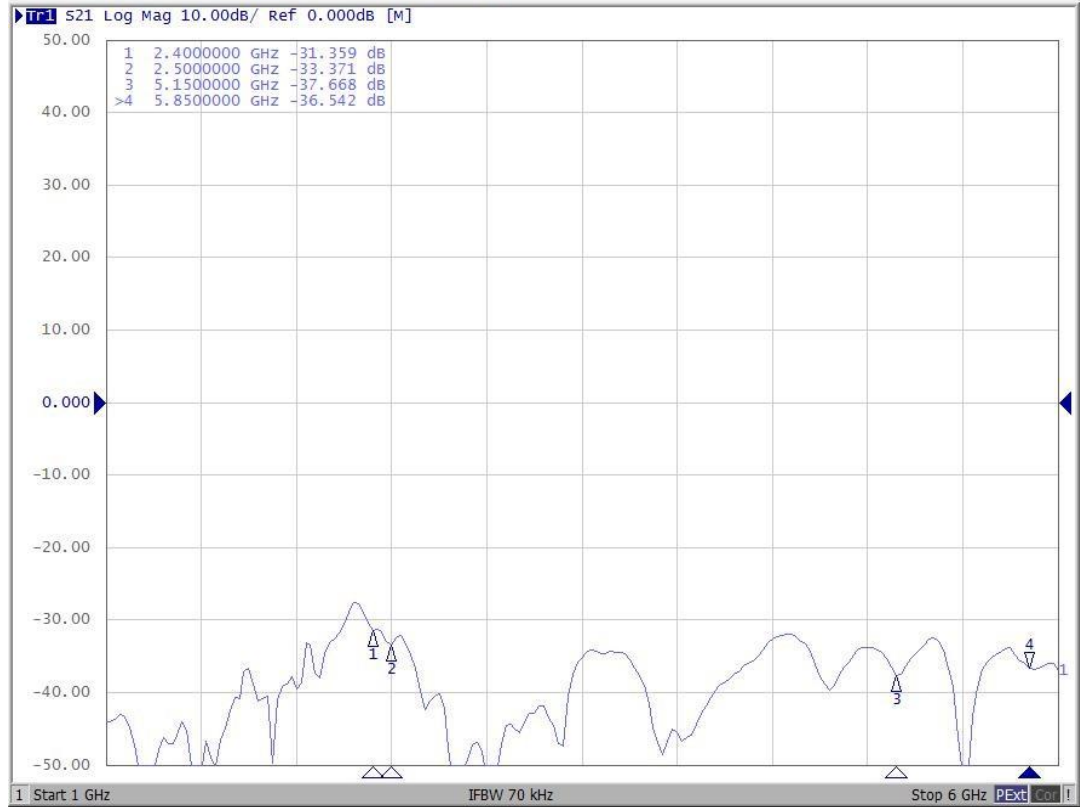
7.2 Passive Test

Frequency	Efficiency	Efficiency, dB	Gain.(dBi)
2400MHz	55%	-2.02	4.60
2450MHz	56%	-2.27	4.44
2500MHz	55%	-2.63	3.75
5150MHz	55%	-2.61	4.00
5550MHz	54%	-2.68	4.60
5850MHz	52%	-2.85	3.40

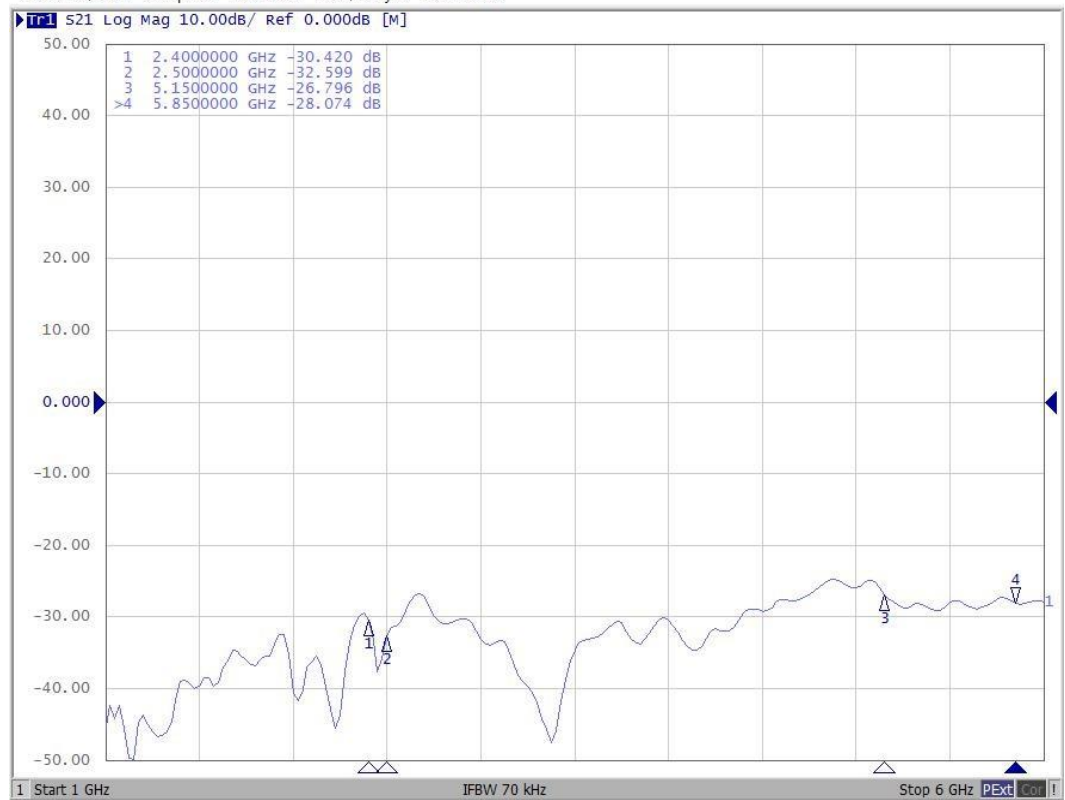
8.Isolation test

WIFI1 and WiFi 2 isolation	2400MHz	-31.359
	2500MHz	-33.371
	5150MHz	-37.668
	5850MHz	-36.542
WIFI1 and BT isolation	2400MHz	-30.420
	2500MHz	-32.599
	5150MHz	-26.796
	5850MHz	-28.074
WIFI2 and BT isolation	2400MHz	-27.817
	2500MHz	-28.225
	5150MHz	-35.765
	5850MHz	-32.004

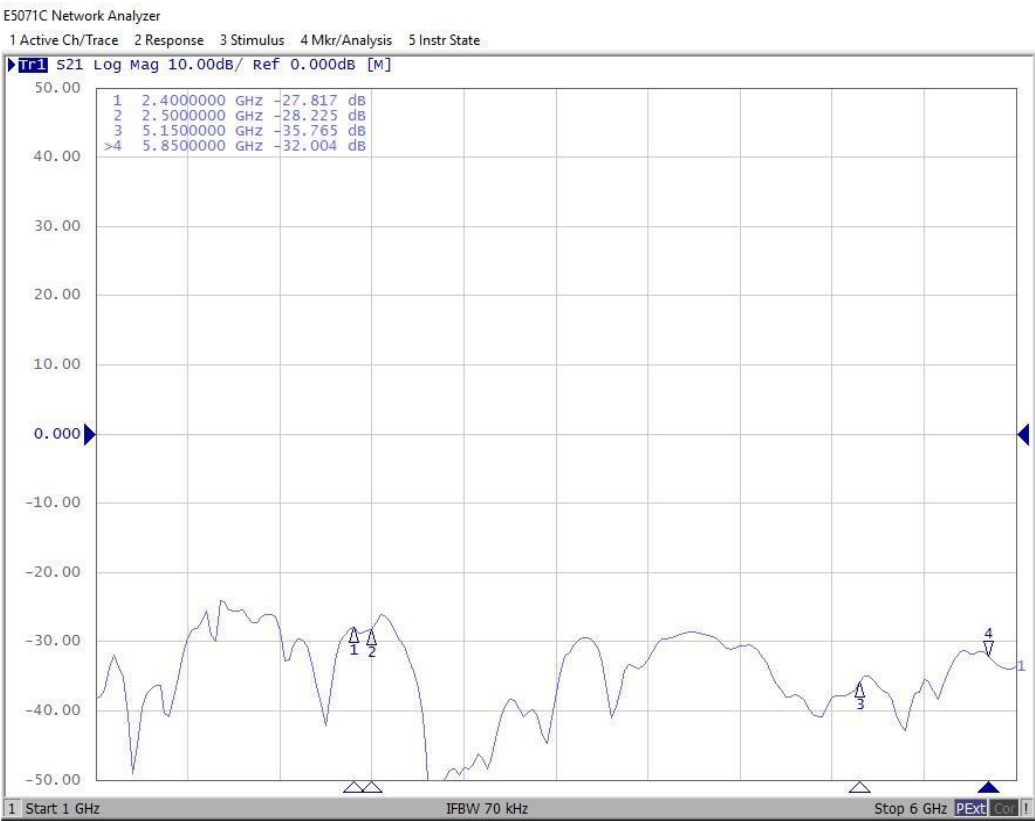
WiFi1-WiFi2



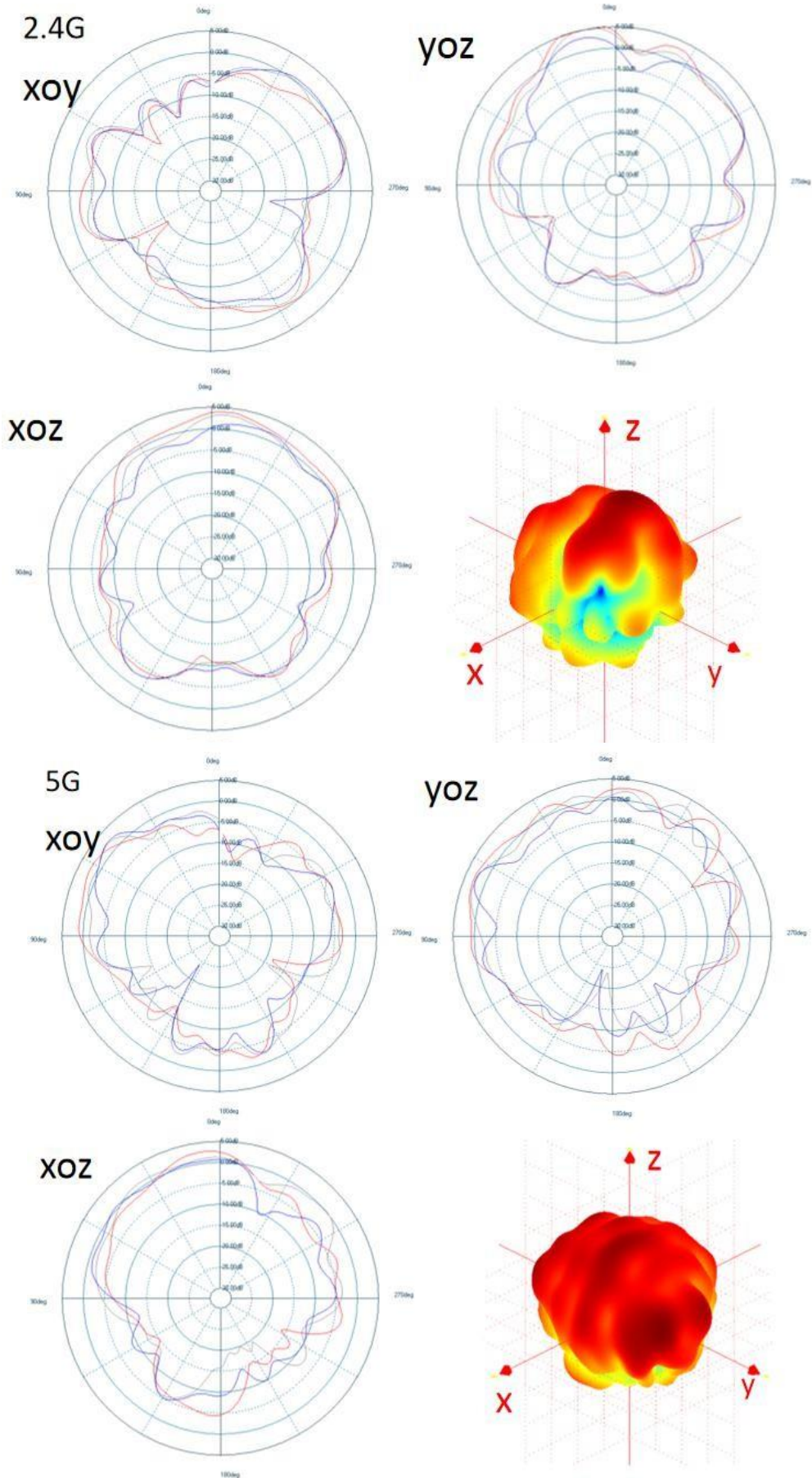
WiFi1-BT



WiFi2-BT



9. 2D/3D Radiation Pattern Results



10. Active Test

B			G			N			A		
Channels	TRP	TIS	Channels	TRP	TIS	Channels	TRP	TIS	Channels	TRP	TIS
1	13.88	-80.93	1	16.04	-63.8	1	15.96	-68.97	36	17.17	-72.37
6	10.38	-77.8	6	14.06	-62.45	6	14.11	-67.08	149	16.65	-71.54
11	14.47	-81.64	11	16.19	-70.15	11	16.23	-68.51	165	16.68	-74

DH5			2DH5			3DH5		
Channels	TRP	TIS	Channels	TRP	TIS	Channels	TRP	TIS
0	5.16	-81.68	0	5.17	-81.31	0	5.21	-76.7
39	4.98	-80.61	39	5.03	-80.63	39	5.01	-76.14
78	5.3	-82.33	78	5.39	-82.81	78	5.37	-77.63