



深圳市昱晟通讯设备有限公司
Yusheng Communications-equipment Co.,LTD

Xingmai GTX2Antenna Specifications

Project name	GTX2	RF Engineer	Xiao Jinbao
Project phase		TEL	13797995807

time	Report Version	Main content
2024/05/13	V0.1	Initial Commissioning Report
2024/06/01	V0.2	Antenna Optimization Report
	V0.3	Trial production prototype optimization report
	V0.4	Replace screen antenna optimization report

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Address: 411, Building 2, South Taiyun Chuanggu Park, southeast of the intersection of Guangming Avenue and Dongchang Road, Tangwei Community, Fenghuang Street, Guangming District, Shenzhen, China

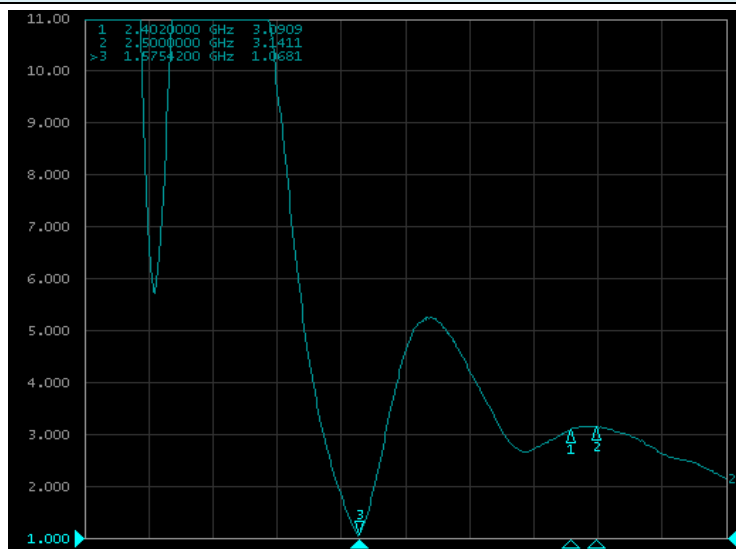
GTX2 Antenna Specifications

Main contents of the report

Antenna debugging results:

1. Arm GPS antenna efficiency debugging is about 7%,
2. Arm BT antenna efficiency debugging is about 6%

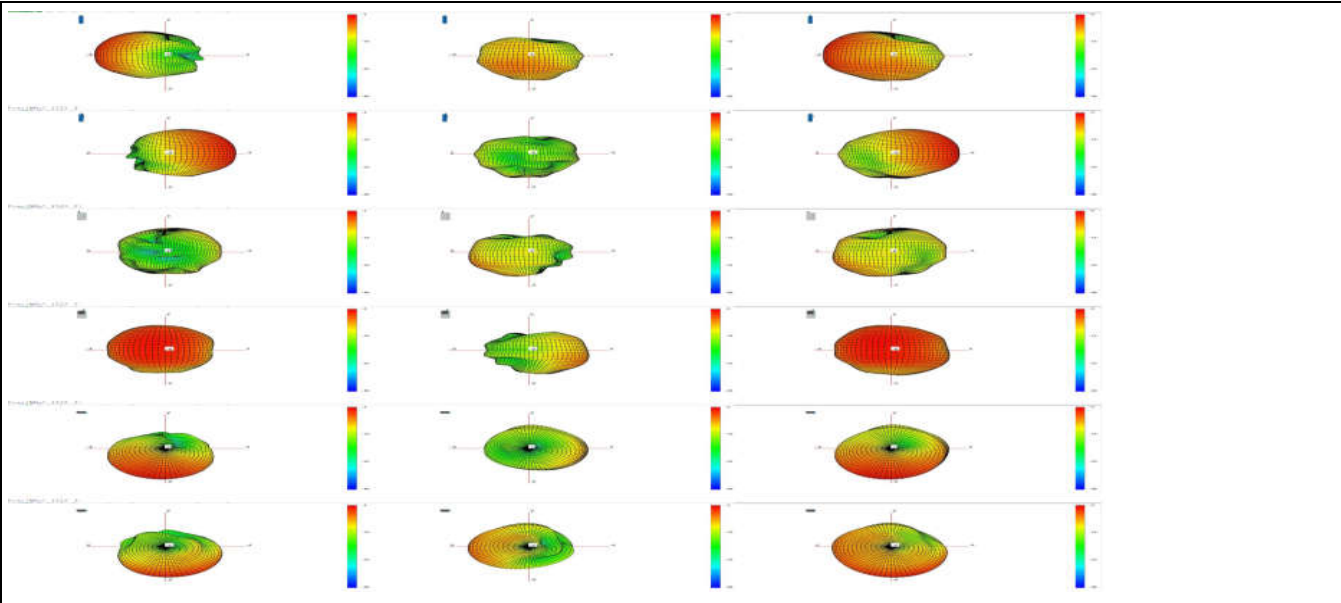
GPS/BT Passive Diagram



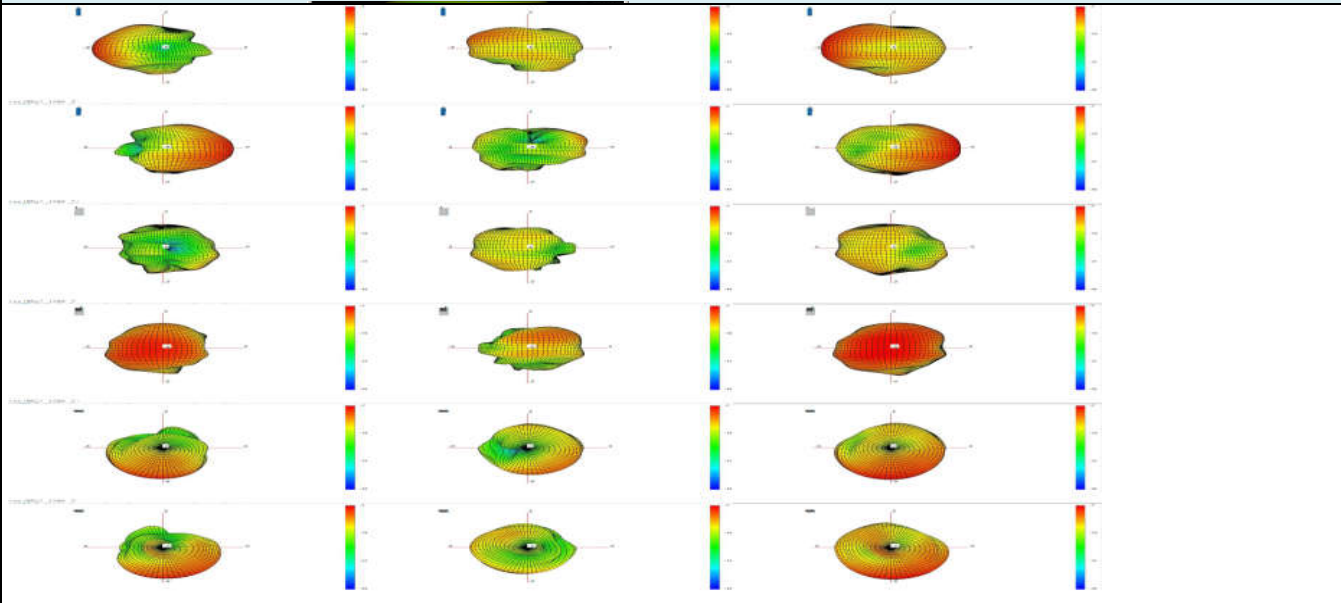
Antenna efficiency parameter test results

	Frequency	efficiency%	efficiencydb	Gain		Frequency	efficiency%	efficiencydb	Gain
BT Arm	2400	5%	-13.2	-8.1	GPS Arm	1550	6%	-12.4	-7.6
	2410	5%	-13.0	-7.7		1555	6%	-12.1	-7.3
	2420	5%	-12.8	-7.5		1560	7%	-11.8	-6.8
	2430	6%	-12.4	-7.2		1565	7%	-11.5	-6.5
	2440	6%	-12.2	-7.0		1570	7%	-11.3	-6.2
	2450	6%	-12.0	-6.6		1575	7%	-11.6	-6.3
	2460	6%	-12.4	-6.9		1580	7%	-11.9	-6.6
	2470	6%	-12.5	-7.3		1585	6%	-12.0	-7.2
	2480	5%	-12.8	-7.6		1590	6%	-12.5	-7.5
	2490	5%	-13.1	-7.9					
	2500	5%	-13.3	-8.2					

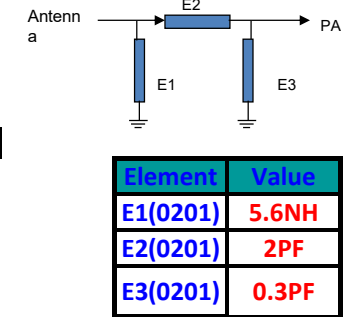
1575MHZ passive radiation pattern/field diagram



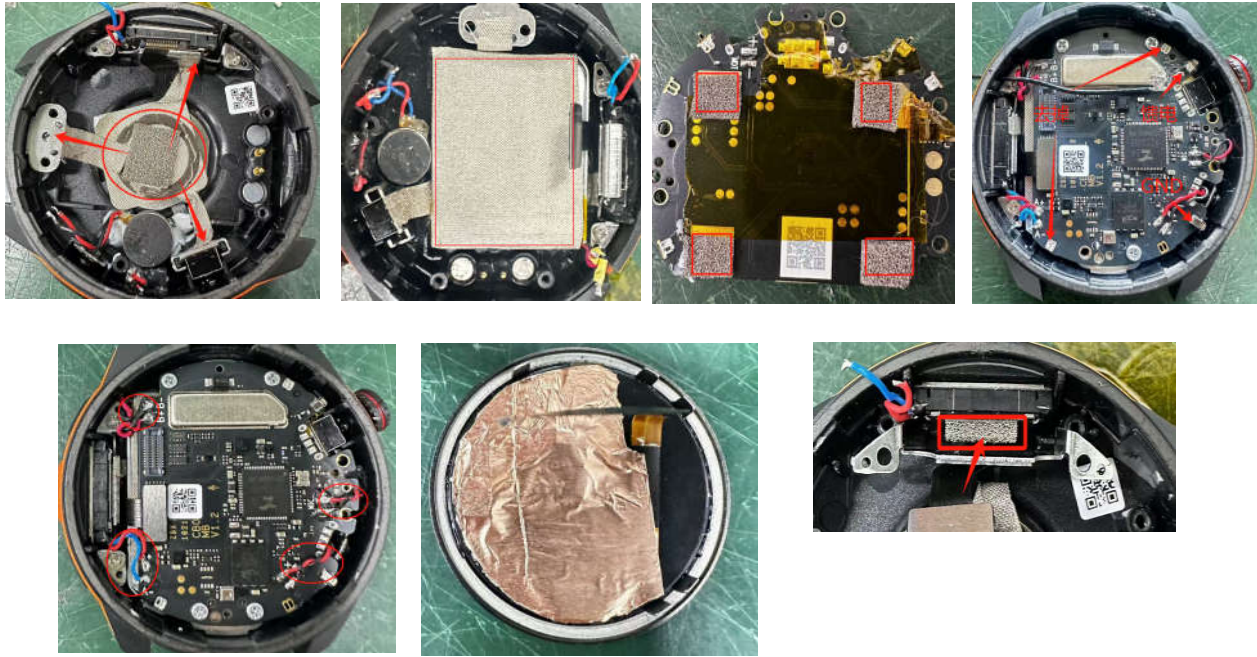
2450MHZ passive radiation pattern/field diagram



GPS Matching



Environmental treatment

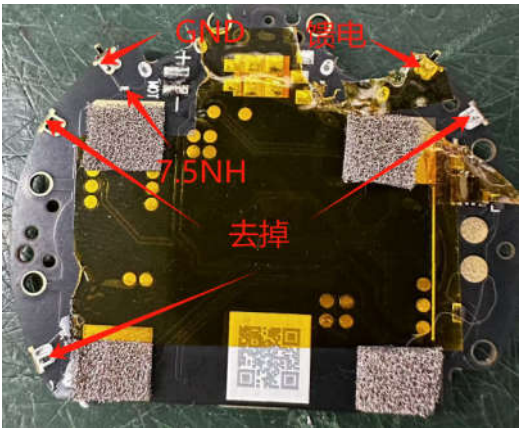


The whole machine environment is processed as shown in the figure.
 The battery, speaker, motor, and microphone wires are wound as shown and placed on the inner side of the motherboard.
 Screen cable copper foil shielding cover processing

N value test of the whole machine



Special attention



Summarize
1. Environmental treatment should be grounded according to the diagram above: (1) Conductive cloth shielding battery (2) Heart rate small board iron sponge grounding (3) Horn magnet and horn iron plate grounding