



Antenna installation instructions

Warning: Changing the antenna installation method or replacing the antenna components will cause changes in the RF performance of the product. Our company is not responsible for any changes in RF performance caused by unauthorized changes in antenna components or antenna installation processes

Antenna manufacturer: Shenzhen Lejin radio frequency technology Co., LTD

Company Address: 3rd Floor, Building A4, No. 176 Chongqing Road, Fuhai Street, Bao'an District, Shenzhen, Guangdong Province. (Phone number: 13603098741)

Customer Name: 维迈通

Product Name: TG04

Product Model: BT ANT

Part Number: LJF02-240825001T-R0A

Write By : 李明进

Issued Date: 2024/8/10

CUSTOMER

ENGINEER R&D DEPT	BUSSINESS DEPT	APPROVED BY	DATE	Edition/Part number

LEJIN

R&D DEPT	ENGINEER R&D DEPT	APPROVAL	DATE	Edition/Part number

ECN/ECR			



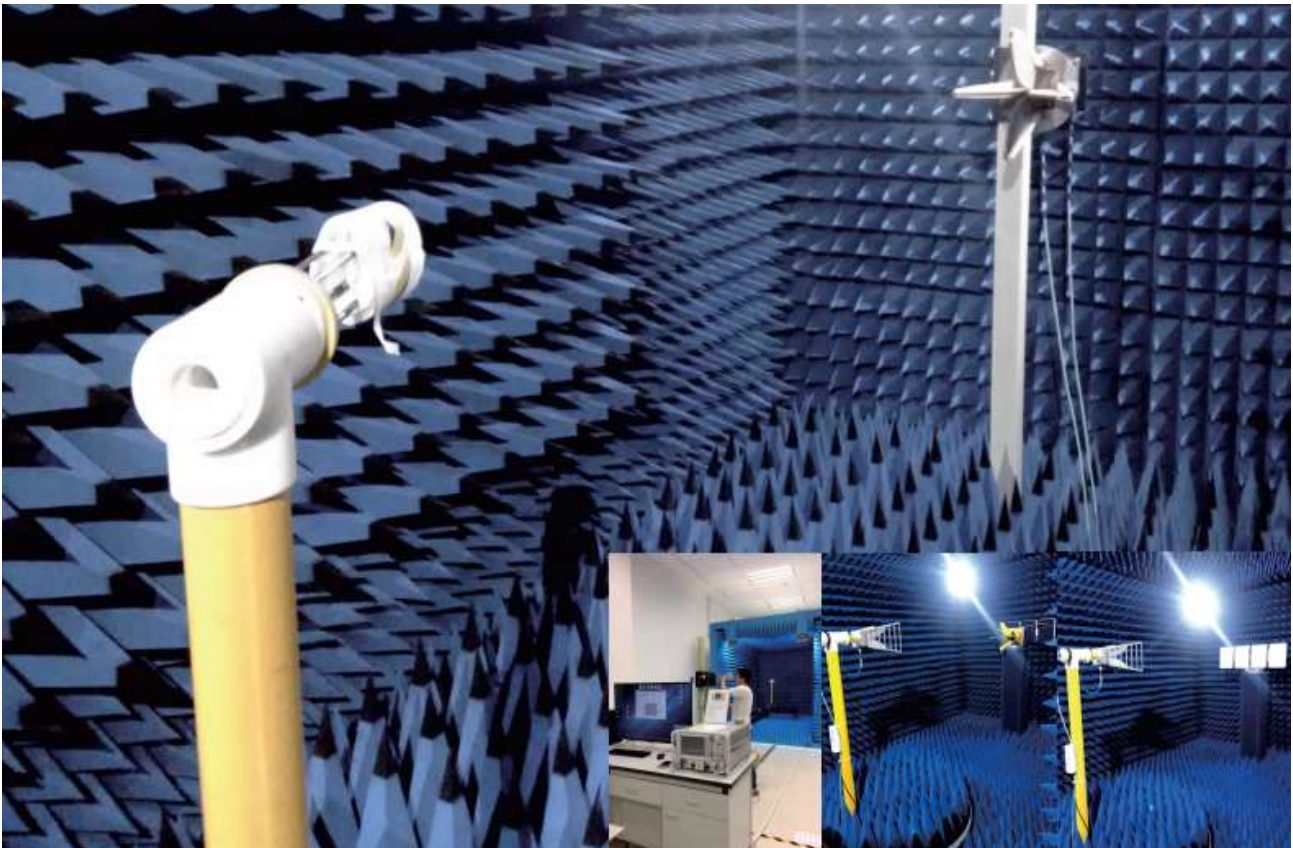
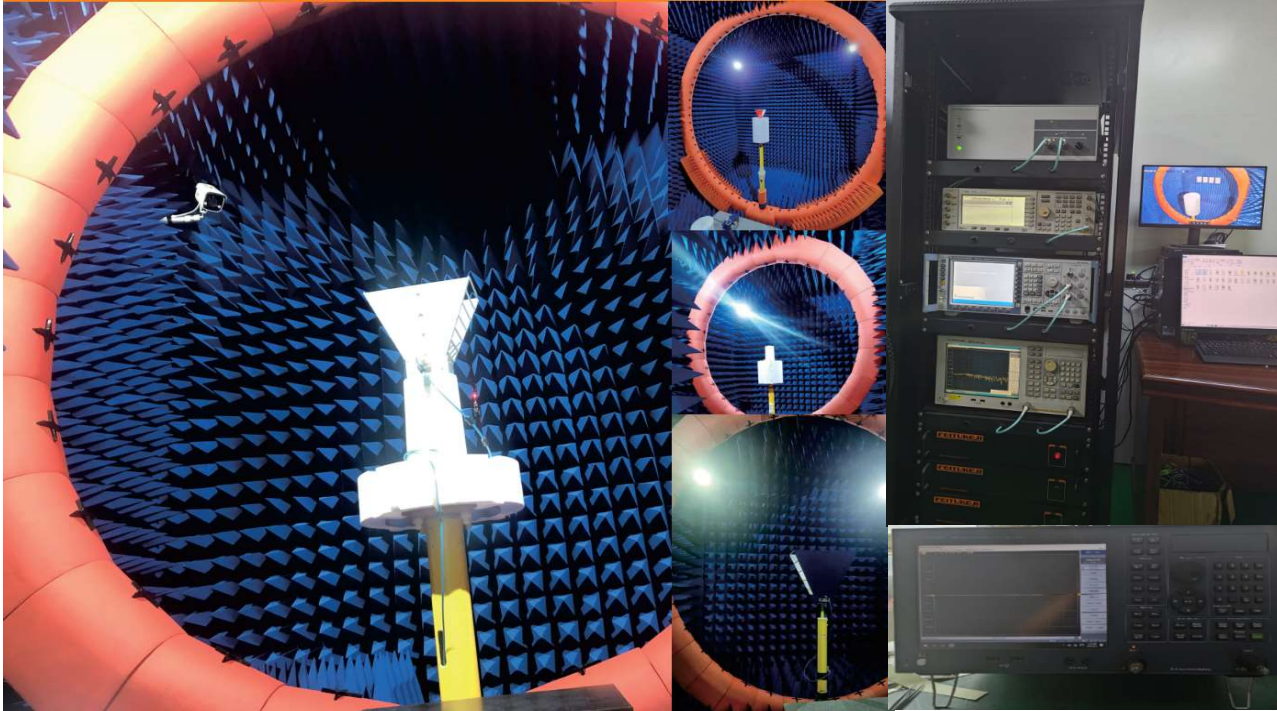
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Electrical Characteristics					
Frequency	VSWR	Efficiency	Impedance	Polarization	Gain (dB)
2.4GHZ-2.5GHZ	<1.8	>30%	50 Ohm	Linear	≥0,<2.0
Material & Mechanical Characteristics			Environmental		
Material of Radiator	Cable Type	Connector Type	Dimension	Operation Temperature	Storage Temperature
BL	1.37 L:320 Black	137-1B2		- 20 °C ~ + 50 °C	- 30 °C ~ + 80 °C

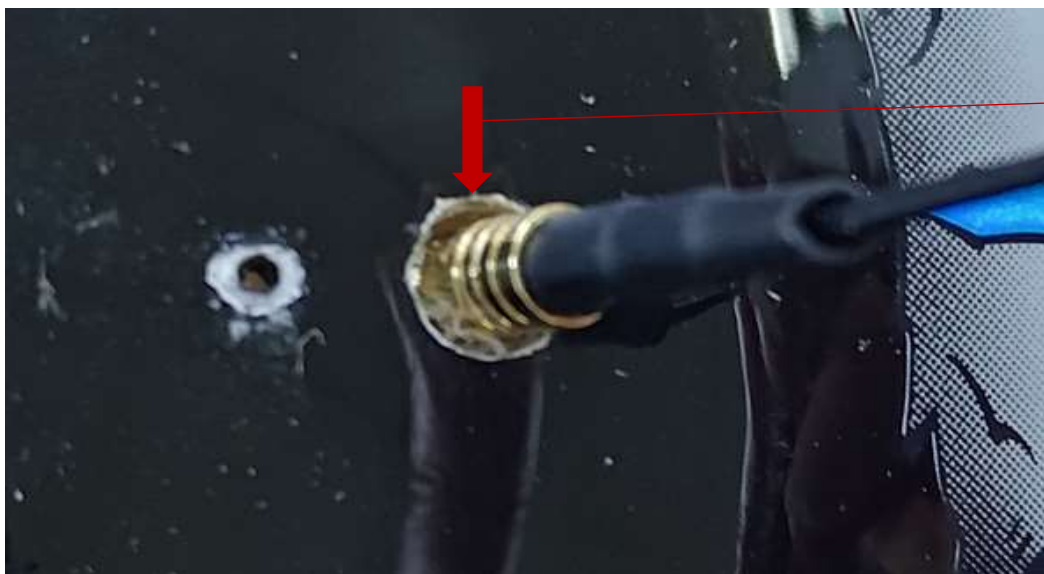
Test Equipment & Conditions

1. Network Analyzers :Agilent 5071C
2. Communications Test Set:Agilent E5515C/CMW500/AT8826
3. 3D Chamber Test System(ETS743)/STM23+1



TG04 Antenna installation steps

STEP1:穿天线SMCX连接器:



开孔口径不小于
5.3mm

STEP2:安装头盔顶部支架:



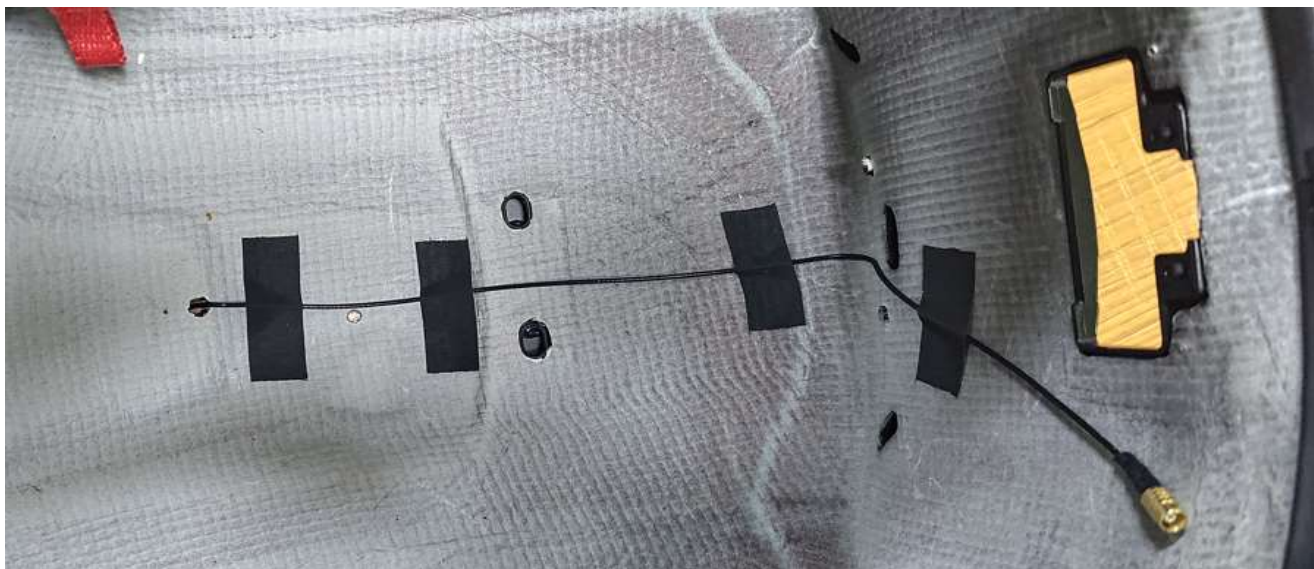
STEP3:安装天线底部填充高密度EVA:



STEP4:张贴天线:



STEP5: 固定及规范头盔内射频线



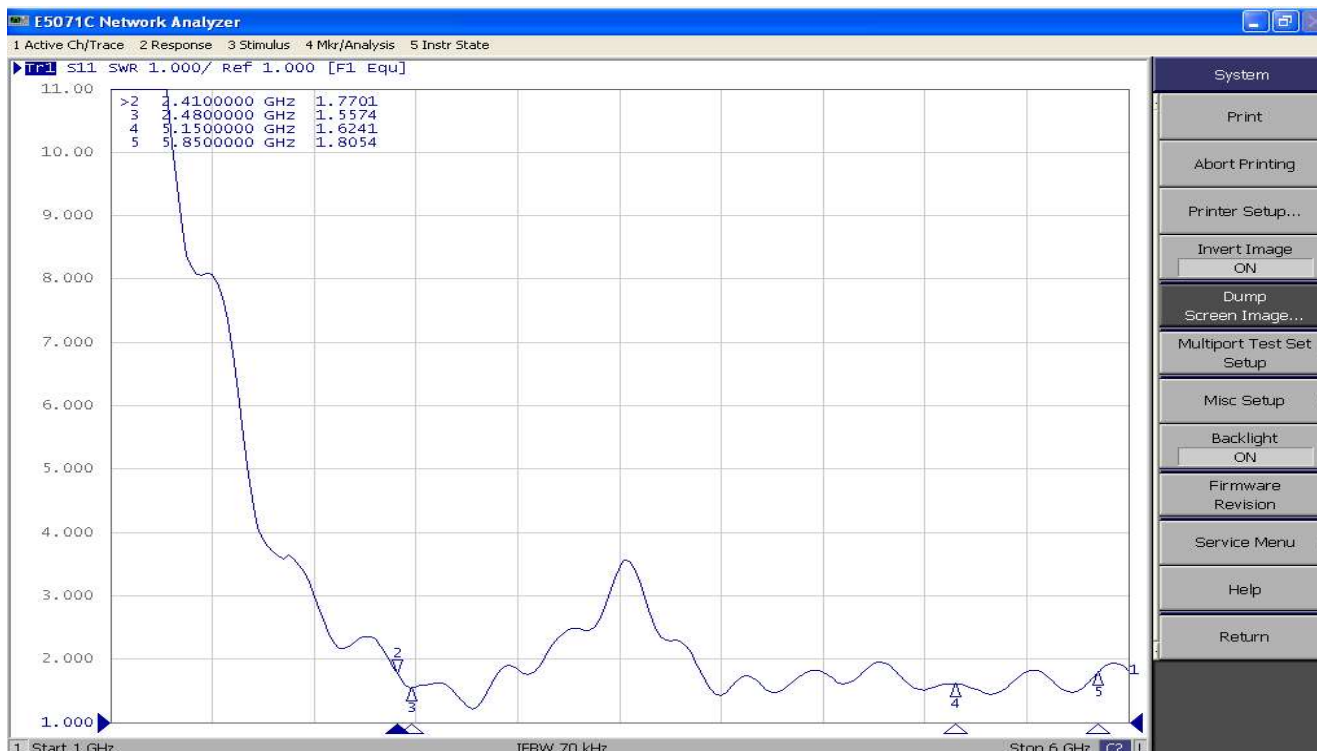
STEP6: 安装头盔蓝牙主机机连接天线连接器



连接器需要设计出有效的带卡位
固定方式

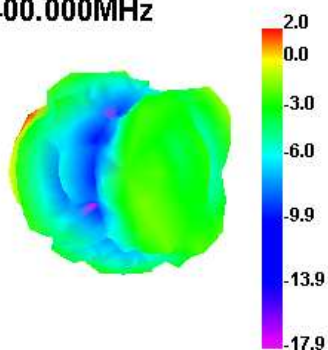


Antenna Impedance:

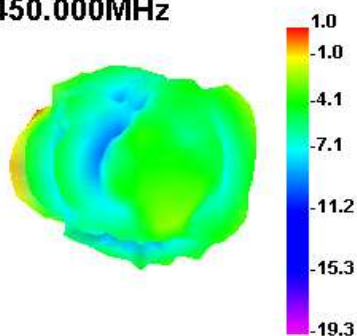


2.4G (BT)	Freq (MHz)	2400	2410	2420	2430	2450	2460	2470	2480	2490	2500
	Effi (%)	29.27	35.46	32.32	33.74	32.33	36.56	33.44	35.78	34.12	35.35
	Gain (dBi)	1.98	2.07	1.35	1.11	1.08	1.14	1.27	1.05	2.31	2.66

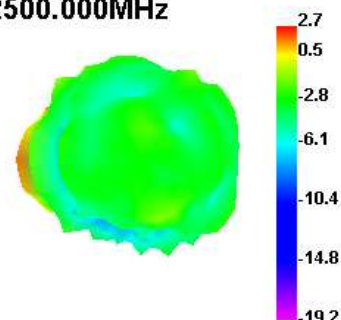
2400.000MHz



2450.000MHz

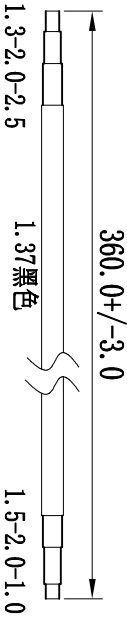
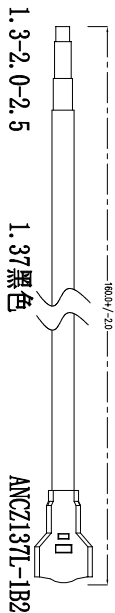
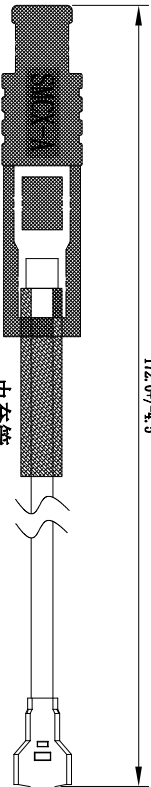
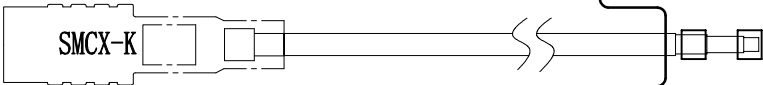
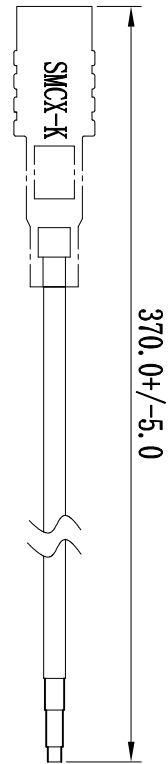
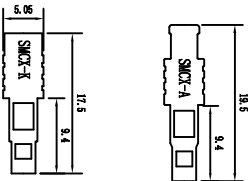
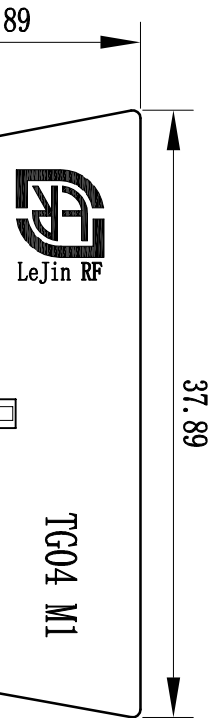
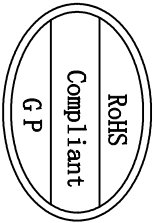


2500.000MHz



Antenna Performance Table			
TRP /TIS(dBm)		15.62	-89.13
BT OTA DATA	Channel No.	TRP (dBm)	TIS (dBm)
	0	16.68	-88.96
	39	15.42	-89.74
	78	14.77	-88.69

ANT DRAWING:



深圳乐进射频科技有限公司
SHEN ZHEN LEJIN RADIO FREQUENCY CO., LTD

Third Angle

Project TG04

Date 2024-08-08

Part No.

WIFI ANT

Designed by

Material

LJF01-20082501-R0A

Checked by

40~

LJF02-24082501T-R0A

Approved by

Location

Treatment

Unit

Rev	Description	Date	Remark
1	New drawing		