Shenzhen Yusheng Communication Equipment Co., LTD

HF012Project antenna specification

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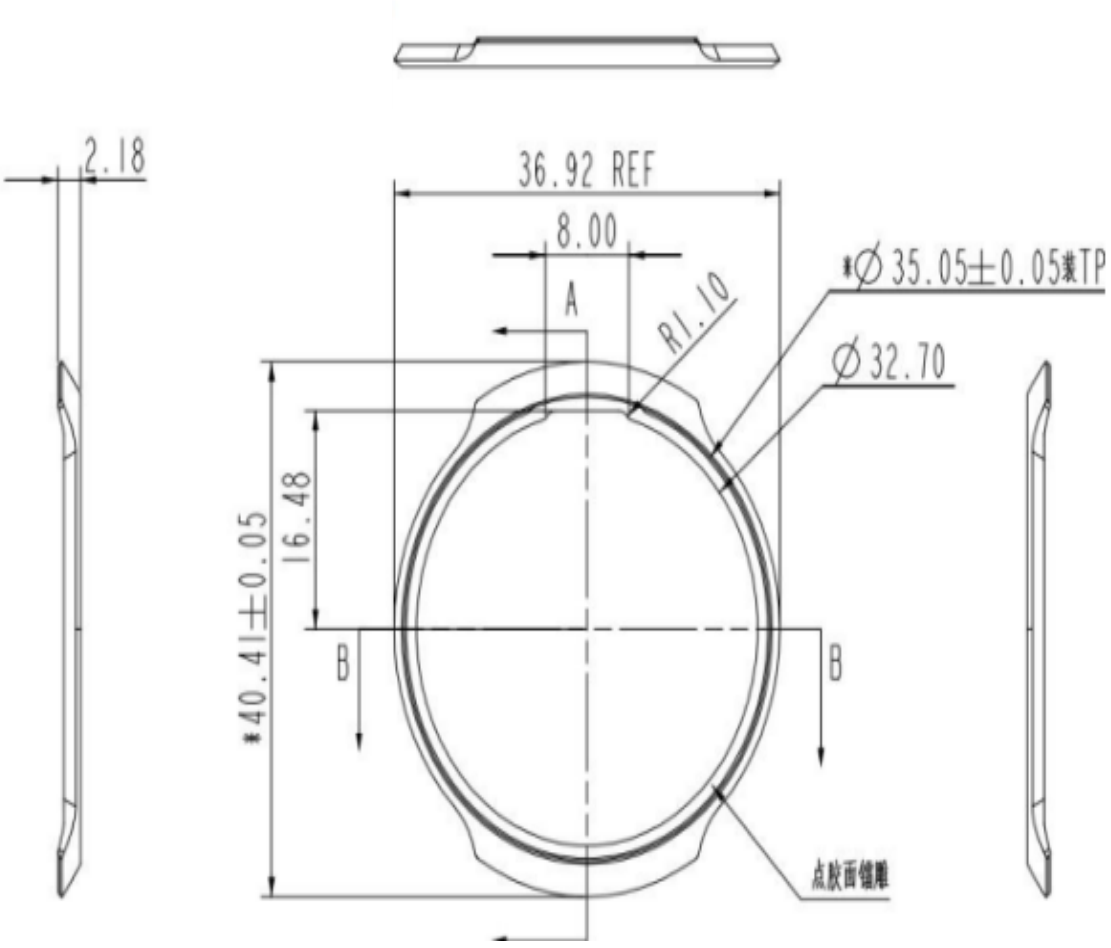

2.18
36.92 REF
8.00
A
R1.10
*∅35.05±0.05沫TP
∅32.70
16.48
*40.41±0.05
B
B
点胶面镭雕

1. Overview

1.1 Scope of application

This requirement applies to the LS26 Antenna type selection, test, and acceptance.

1.2 Project basic information

Antenna name:	**LS26**
Antenna frequency:	GPS+BT:1575.42MHz/2.4G
Antenna material:	Metal frame

2. Technical index requirements

2.1 Introduction of test items and equipment

inventory	test item	equipment
Active test	TRP,TIS	Integrated tester, microwave darkroom

2.2 Active Reporting

2.2.1 Test instructions

Test tools: Agilent8960 instrument, R & SCMW500, full wave far field ETS dark room, high precision positioning system and its controller and computer with automatic test program

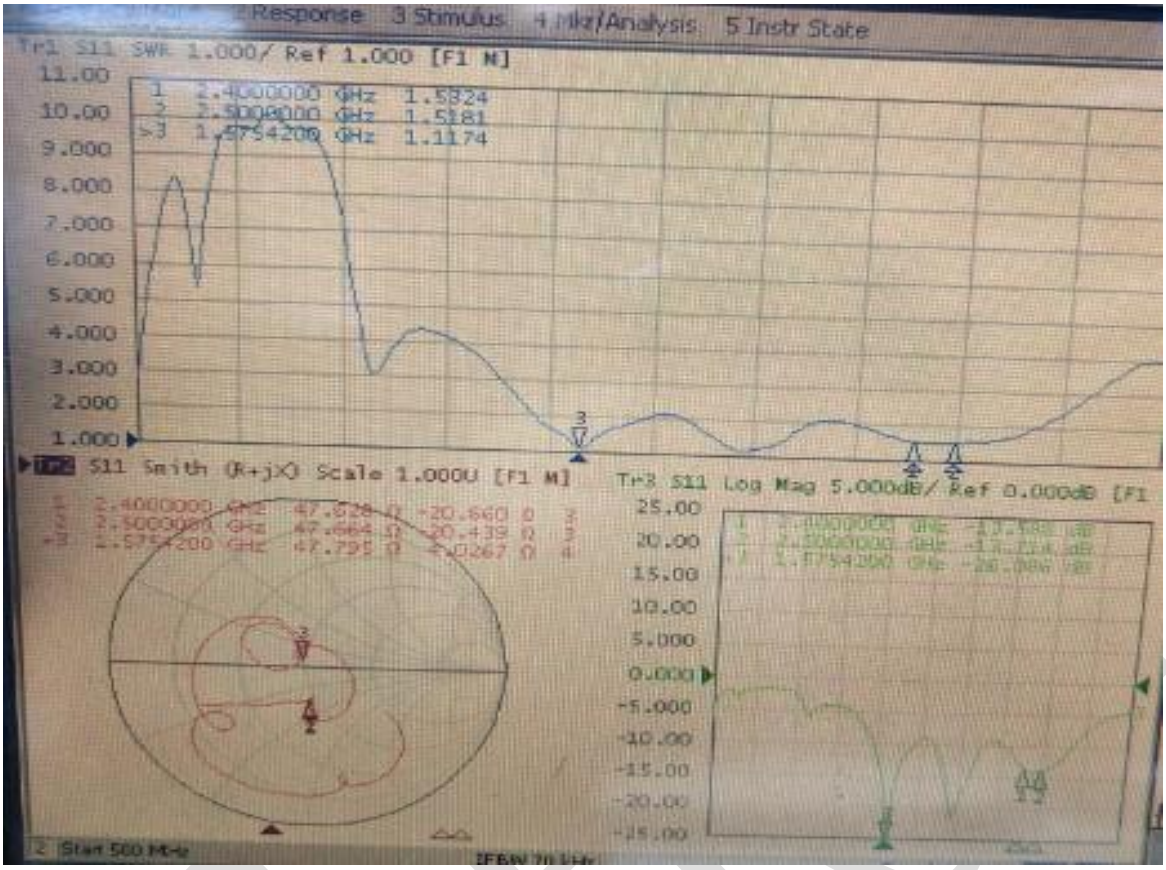
Test environment: temperature 22℃± 3℃, humidity 50% ± 15%

Test method: DUT is fixed in the center of the turntable with H plane, on the same horizontal line as the center of the horn antenna.

The positioning system enables the DUT to rotate in the whole sphere to satisfy the high-precision 3 D positioning. Each RF instrument and turntable controller communicate with the PC with automatic test software through the GPIB interface.

3.Develop test reports

3.1 Antenna passive parameters

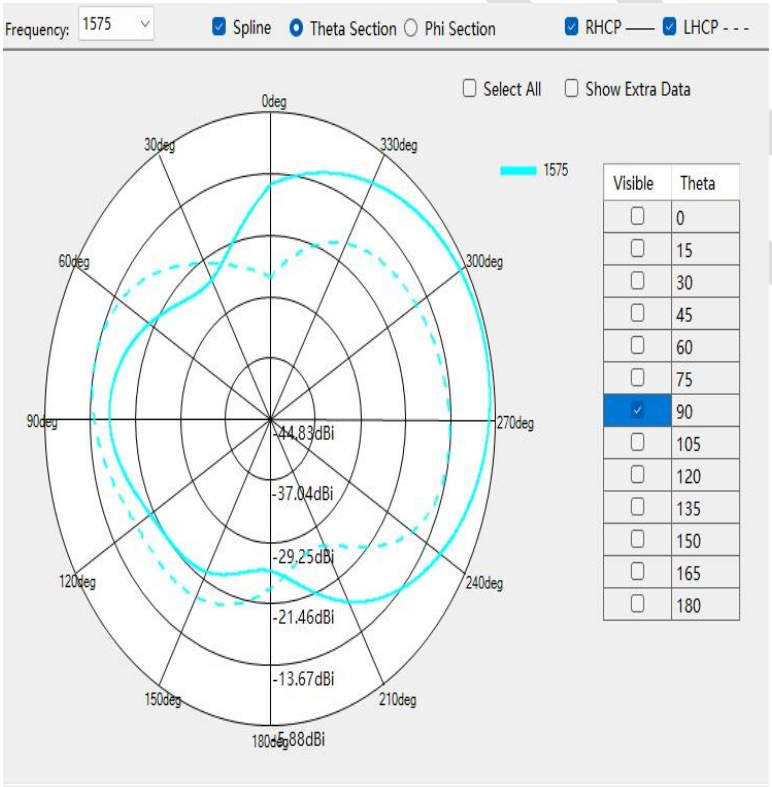


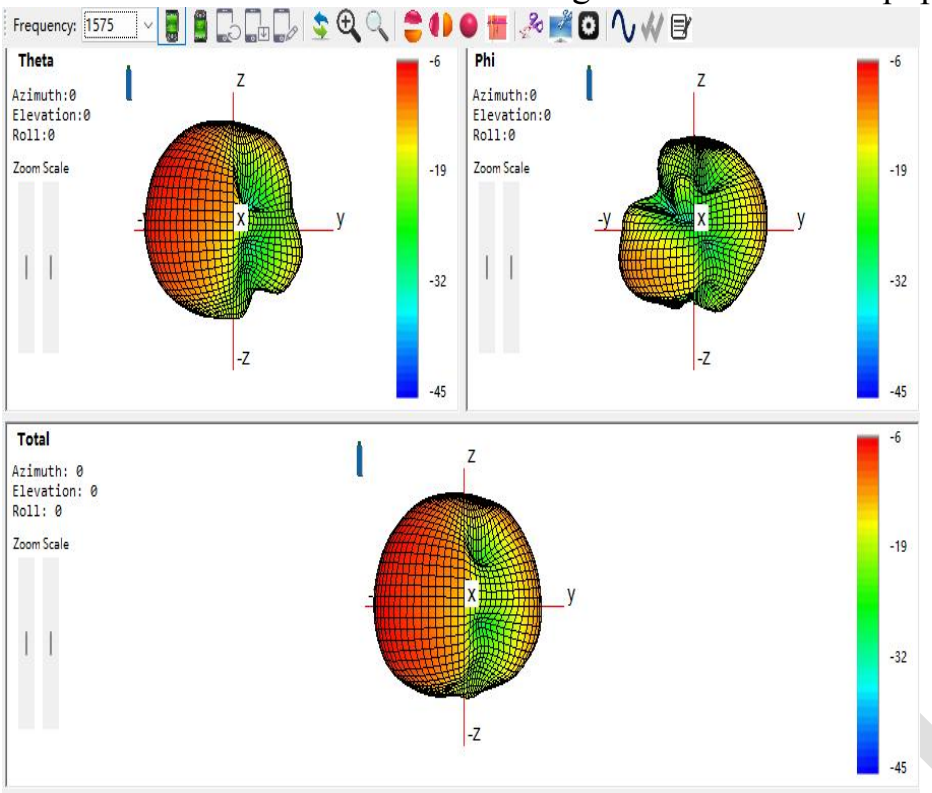
Freq (MHz)	Effi (%)	Gain (dBi)
1550	6.18	-6.40
1560	6.25	-6.21
1570	6.27	-5.98
1575	6.39	-5.63
1580	6.45	-5.25
1590	6.28	-5.01

Freq (MHz)	Effi (%)	Gain (dBi)
2400	5.60	-5.31
2420	5.32	-5.39
2440	5.20	-5.47
2450	5.21	-5.00
2460	5.47	-5.87
2480	5.27	-5.82

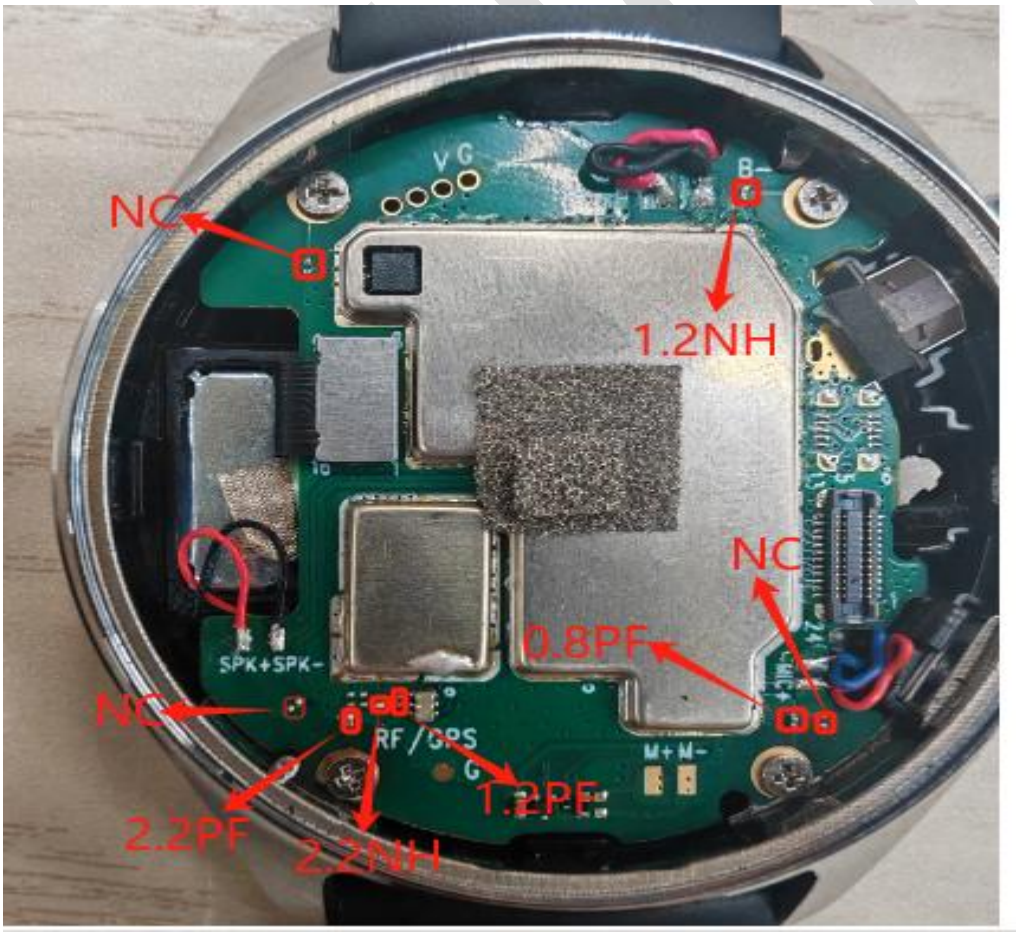
3.2 GPS search for stars

3.3 GPS Apple map/direction map-arm

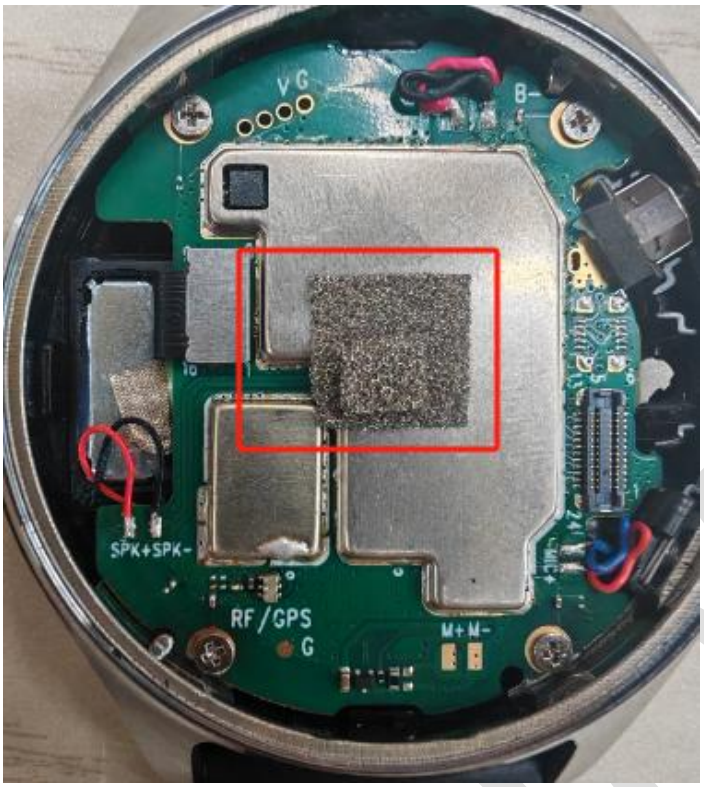




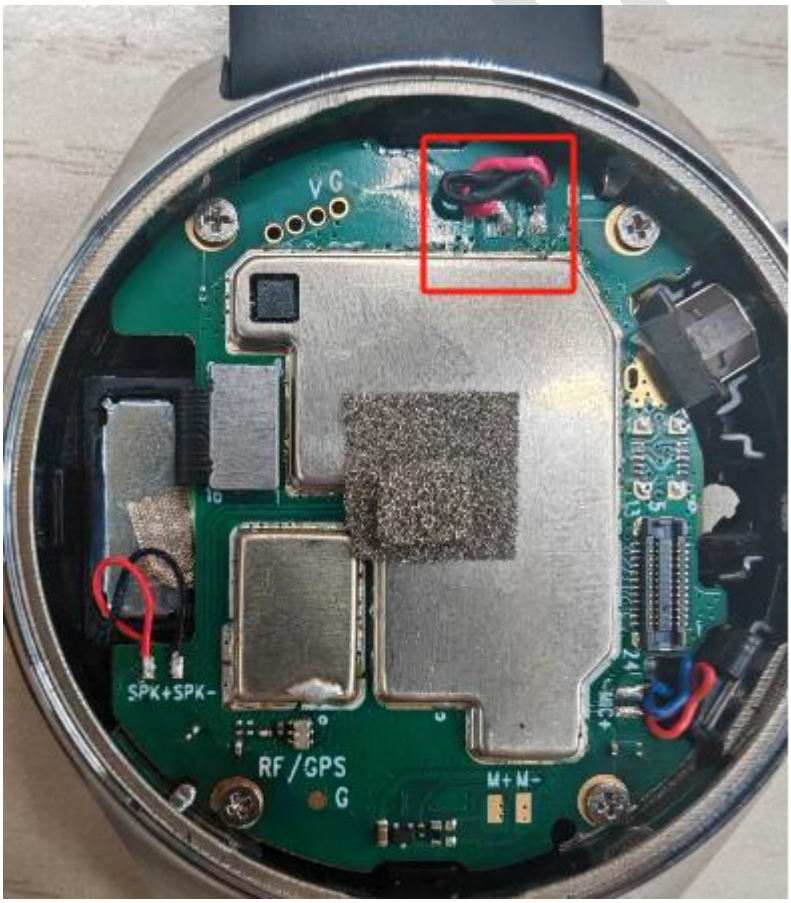
3.4 Antenna loading coil



3.5 Antenna environment processing

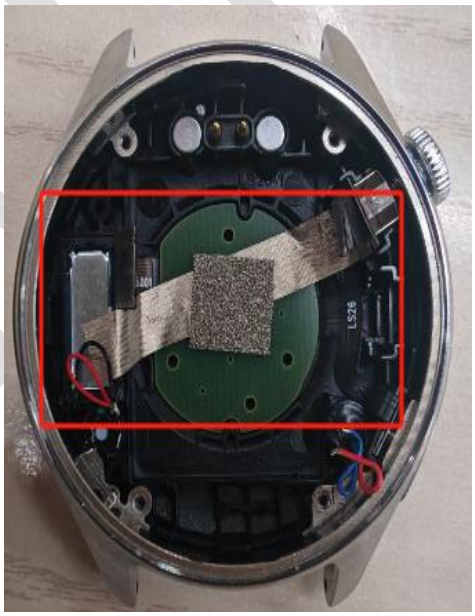


The motherboard shield is replaced with aconductive foam above



The excess wire of the battery line should be folded back above the motherboard and not close to the metal frame

The screen needs to be covered with conductive cloth



The battery needs to be wrapped with conductive cloth, the copper area of the motherboard needs to be covered with conductive foam, and the speakers and buttons need to be covered with conductive cloth to connect the battery with the motherboard.