

Antenna OTA Test Report

Product Number	QA960-ant
Product Name	Printed antenna
Impedance	50 Ohm
Material of Radiator	FR-4
Frequency	2400-2500MHZ
Operation Temperature	- 40 °C ~ + 80 °C
Manufacturer	Shenzhen Goodocom Information Technology Co. , LTD
Manufacturer Address	305, 3 / F, Xia Gu, Meisheng Huigu Science and Technology Industry Park, 83 Dabao Road, 33 District, Baoan District, Shenzhen City.

Engineer: <i>Lexus</i>	Date: <i>2020.9.15</i>
Auditor: <i>Gala</i>	Date: <i>2020.9.15</i>
Approver: <i>Beth</i>	Date: <i>2020.9.15</i>



1. Test purpose

After the calibration of RF parameters for test purpose is completed, antenna matching shall be carried out under the condition that the static indicators meet the standard. Verify the performance parameters of the antenna to ensure that the antenna works in the best state.

2. Test Environment

2.1 Test environment



2.2 List of Test Equipment

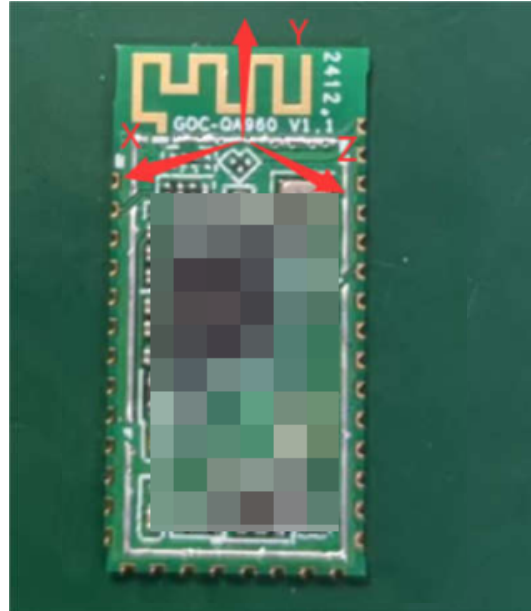
Equipment NO.	Name	Model	Calibration date	Due data
GK12	TRILOG Boardband Antenna	VULB 9163	2020/01/10	2021/01/10
GK15	MXG Vector signal generator	N5182A/E5071C	2020/01/10	2021/01/10
GK08	Compture	Y7000	2020/01/10	2021/01/10

2.3 Test standard

Name	Parameter	Method	Standard NO.
Mobile communication antenna	Antenna gain	Generic specification for antenna used in the mobile communication	GB/T 9410-2008
	Radiation pattern		
	VSWR		
Antenna	Radiation efficiency	IEEE standard test procedures for antenna	ANSI/IEEE Std149-1979
	Gain and directivity		

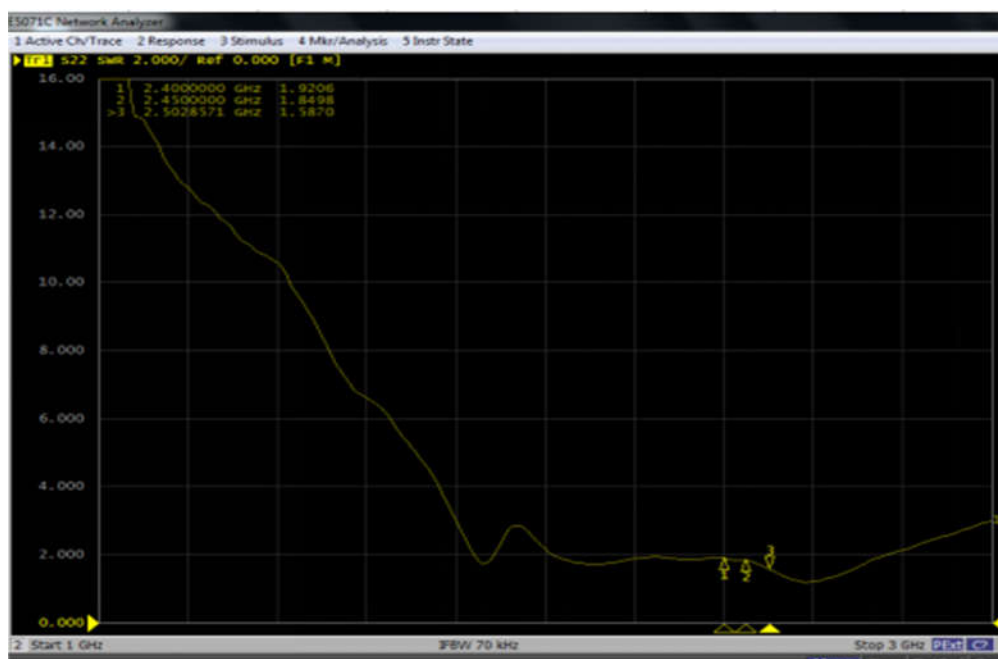
3. Position of antenna to be tested

The antenna of this product is mainly board antenna. This test is conducted for the onboard antenna. The following figure shows the structure of the product and the location of the onboard antenna.

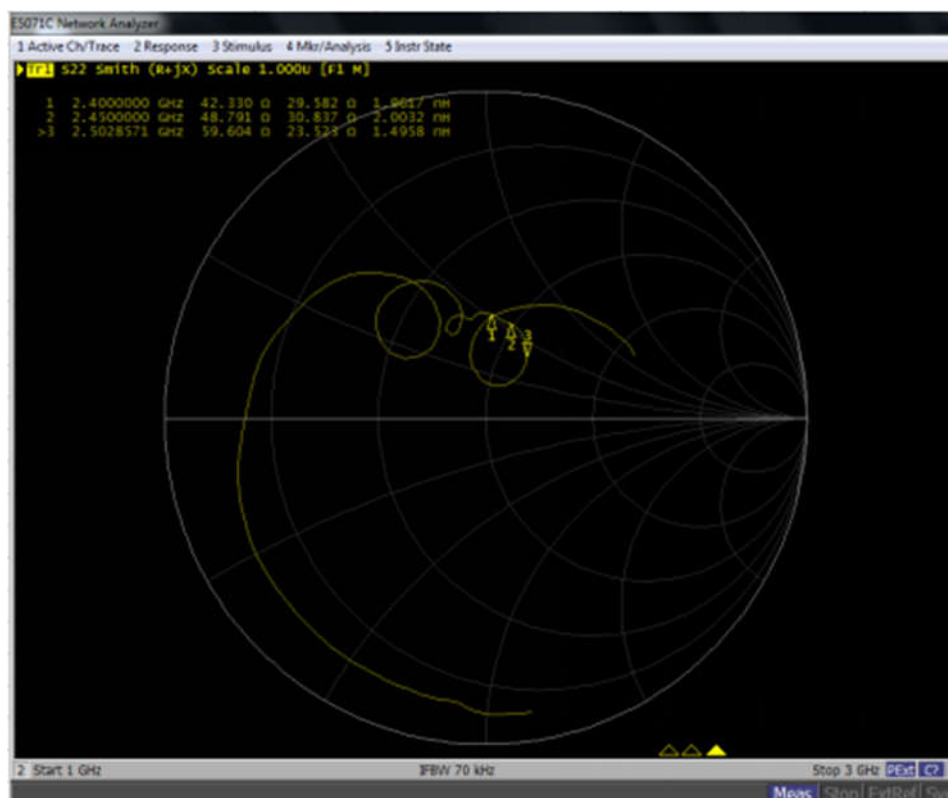


4. 2.4GHz BT Antenna test result

4.1 Standing wave ratio



4.2 Smith chart of antenna



4.3 Radiation 3D Map

