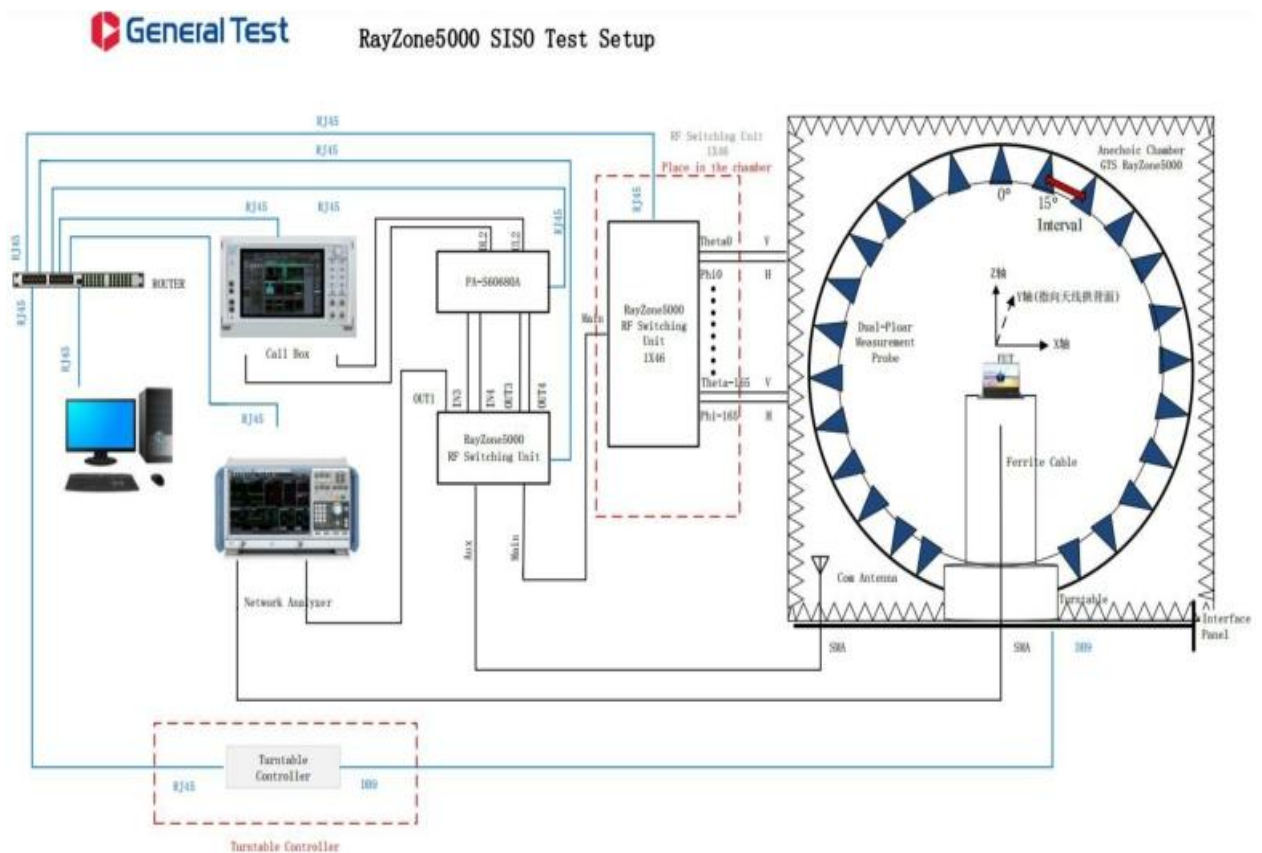


天线报告 Antenna report

Manufacturer : ShenZhen ShanWan Technology Co., Ltd
Add: 5 / F, building 33, chentian Industrial Zone, chentian community, Xixiang street,
Bao'an District, Shenzhen, Guangdong China
Model : Q37

1.测试原理 Test principle



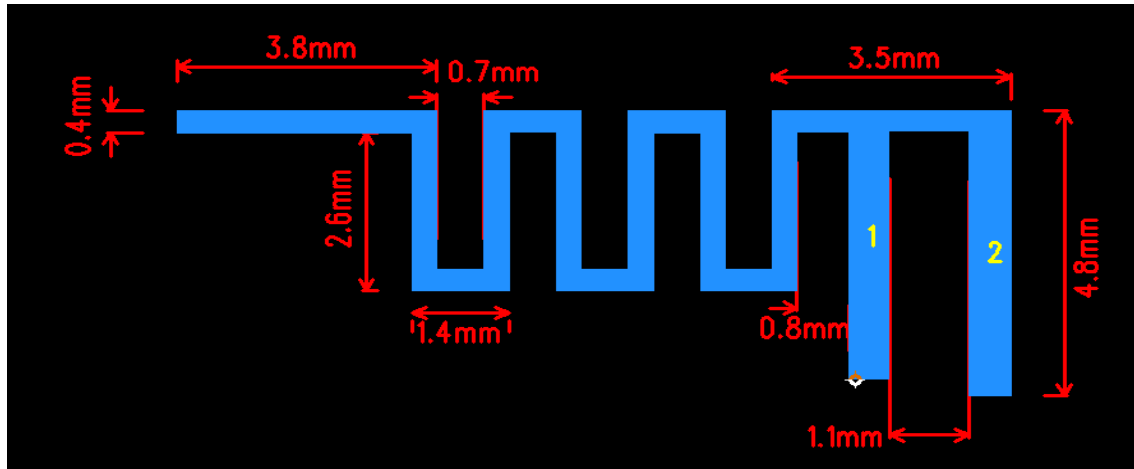
2. 测试设备Test equipment

名称name	型号model	设备编号NO.	厂商manufacturer	校准日期Calibration date	下次校准日期Date of next calibration
OTA 测试系统 Test system	RayZone-5000	RFI-LAB-RF-D00	GTS	2021.3.22	2023.3.21
网络分析仪 Network analyzer	E5071C	RFI-LAB-RF-C02	KEYSIGHT	2022.5.13	2023.5.12
网络分析仪 Network analyzer	E5071C	RFI-LAB-RF-D01	KEYSIGHT	2022.5.13	2023.5.12

3. 测试环境Test environment

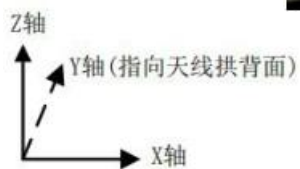
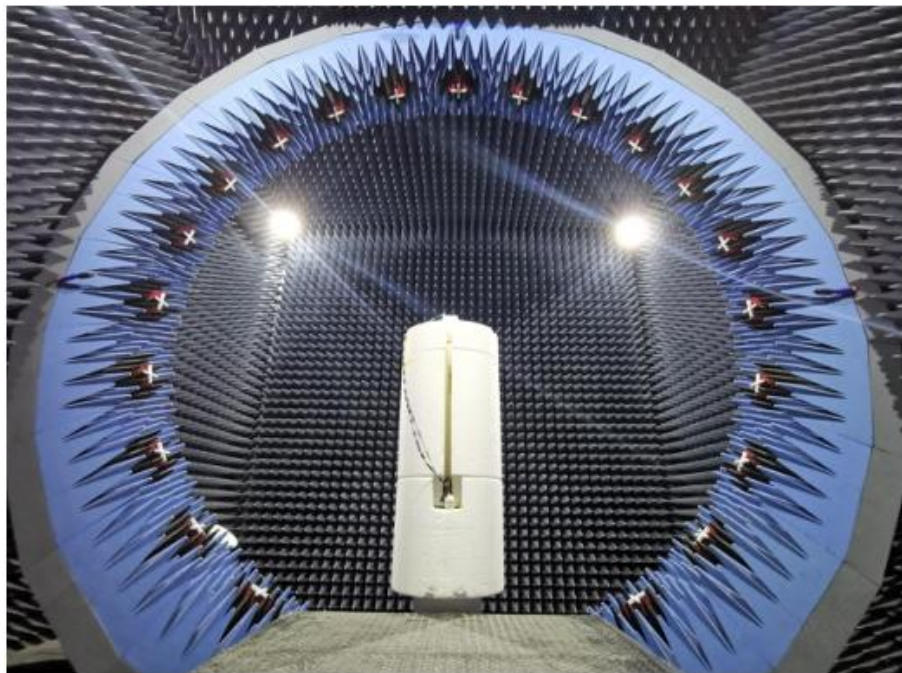
环境温度temperature	23.6°C
相对湿度humidity	58%RH
大气压强 Atmospheric pressure	100.14kPa

4. 样品实物Size



5. 样品实测摆放图 Test Setup

主视图



7. 测试数据 Test Data

7.1 网络分析仪测试 Data



7.2 SWR

frequency/MHz	2402	2440	2480
voltage SWR	2.7457	2.6723	2.3064

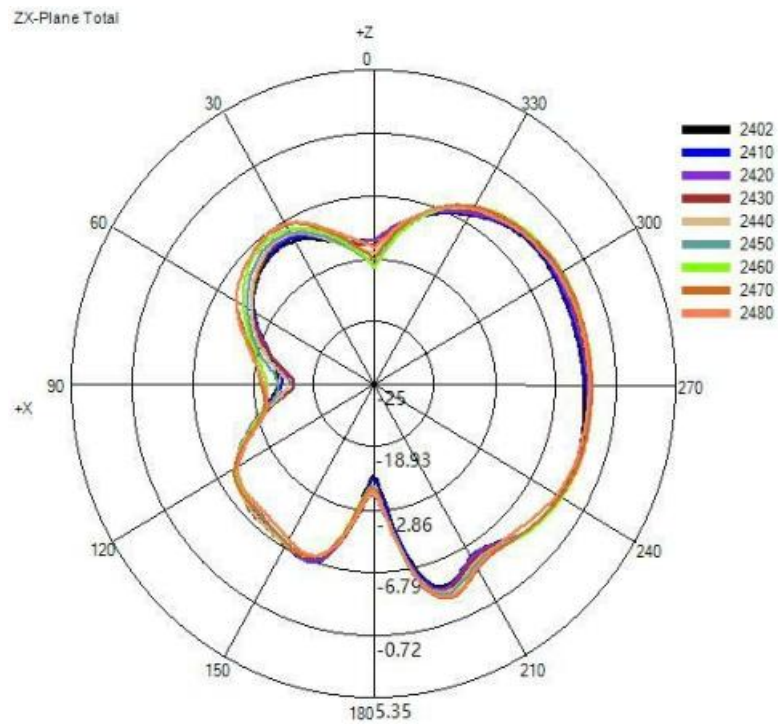
7.3 Gain

frequency/MHz	2402	2410	2420	2430	2440	2450	2460	2470	2480
MAX Gain/dBi	-1.87	-1.85	-1.73	-1.29	-1.27	-1.16	-0.9	-0.78	-0.92
efficiency/%	16.88	18.44	19.60	20.09	20.18	19.86	20.78	21.88	21.33

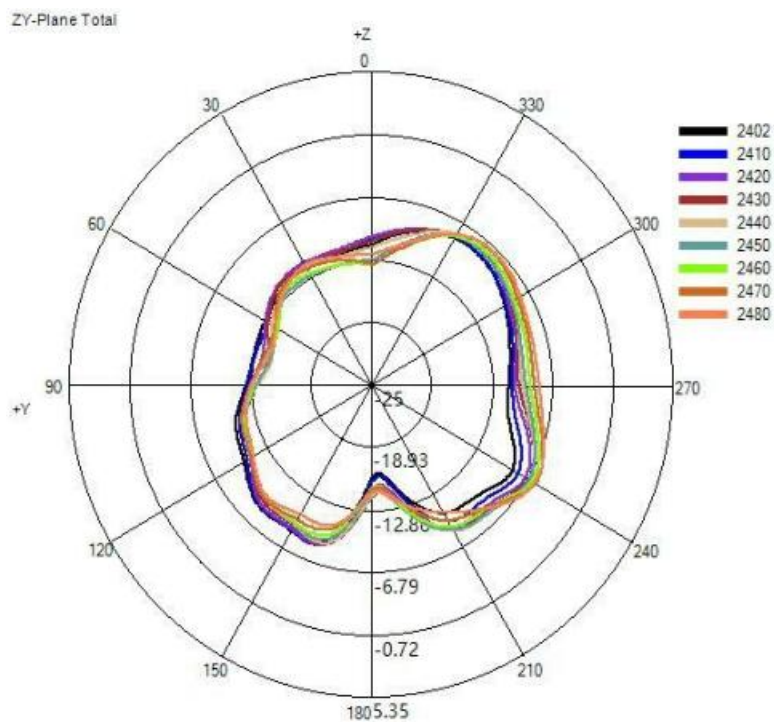
7.4 Roundness of the directional graph

frequency/MHz	2402	2410	2420	2430	2440	2450	2460	2470	2480
H Theta=90/dB	20.35	19.87	21.25	20.14	17.98	20.85	20.79	20.16	15.91

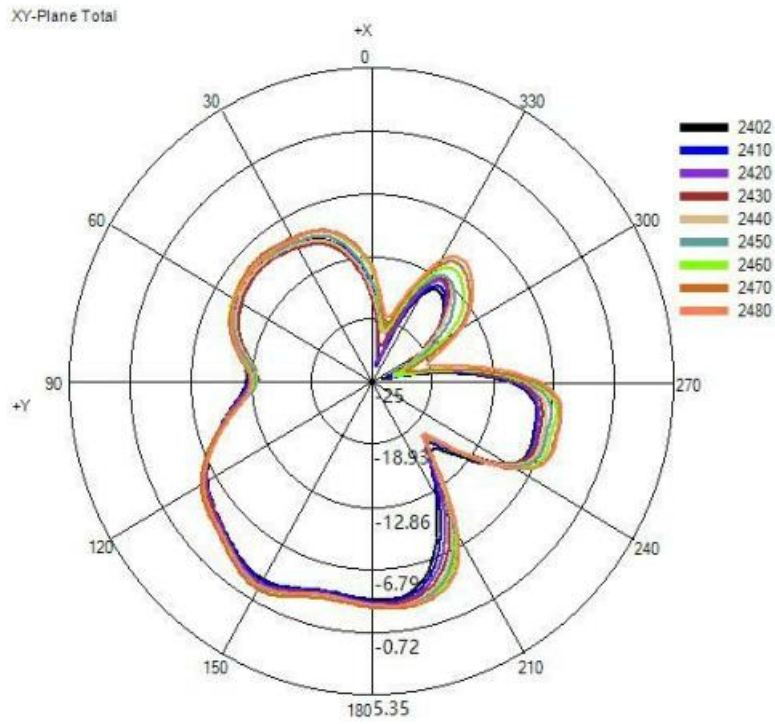
7.5 Directional diagram



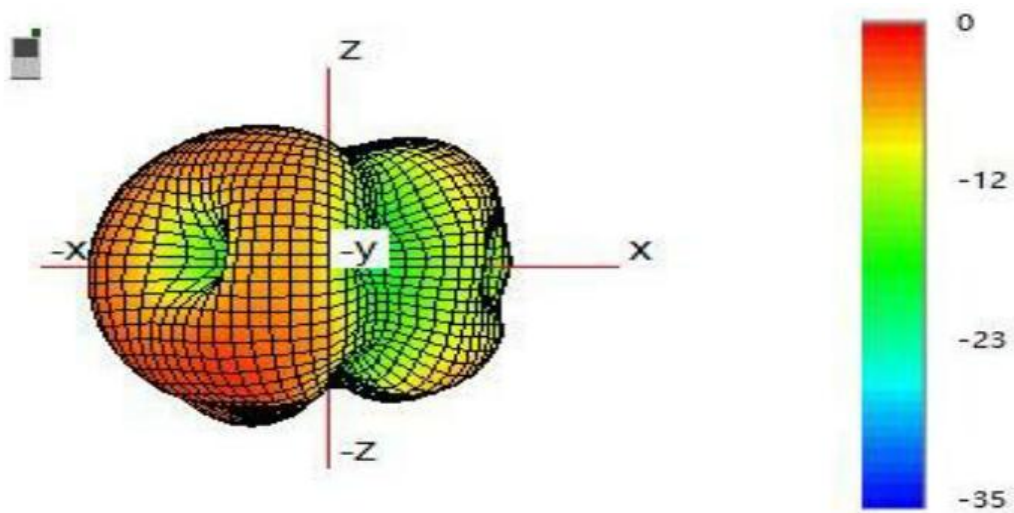
(2) Y-Z (dBi):



(3) X-Y (dBi):



(4) 2470MHz 3D (dBi):



-----end-----