

深圳市云希科技有限公司
ShenZhen Yunxi Technology Co.,Ltd.

Antenna Specification

Customer: 骏泰达

Project Name: C9902-10.26

RF Engineer: 向工

Testing Date: 2023-02-15

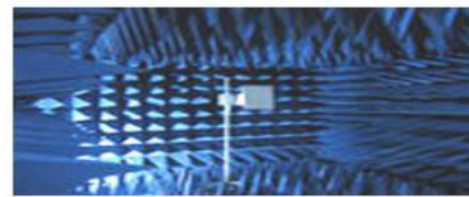
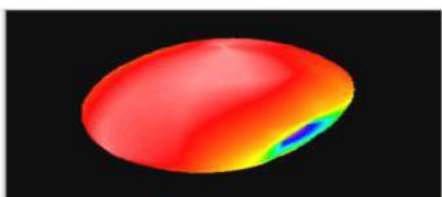
Operating band: WIFI BT

2.Project brief

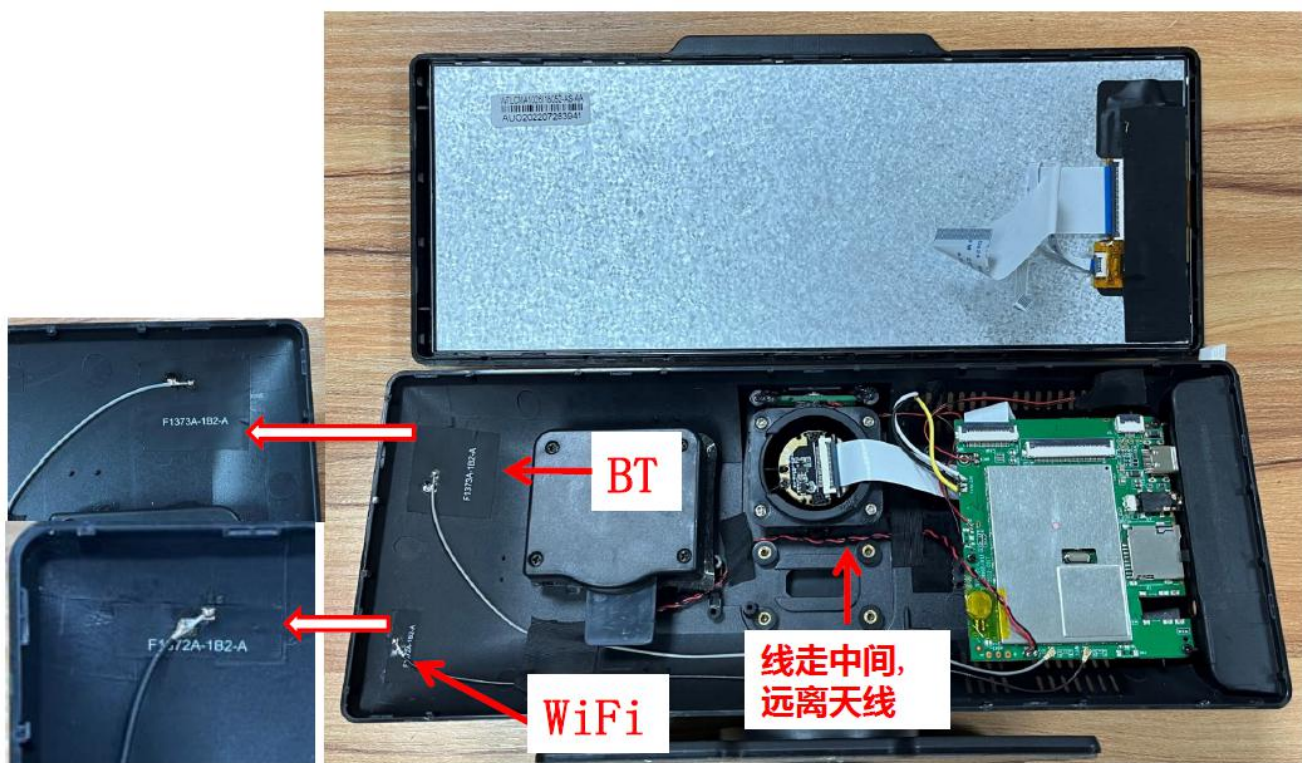
NO.	ITEMS	DETAILS
1	工作频段 Operating band	WIFI+BT
2	频率范围 Frequency range	(2400~2500MHz)
3	天线类型 Antenna Type	内置
4	天线材质及实现形式	天线采用 FPC 贴在塑胶后壳里面
5	天线料号 Antenna part number	WiFi/BT: F1372A-1L23B-195-A
6	输入阻抗 Input Impedance	50 (Ω)
7	增益 Gain	WiFi/BT: -2.3 dBi
	RF	向工
	ME	邹工

3.Test system and equipment

	测试项目	设备
1. S参数	1. 回波损耗 2. 驻波比	网络分析仪: HP E5071C/Agilent8753D
2. 耦合功率测试	1. 发射功率 2. 接收灵敏度	GSM 测试仪: Agilent 8960 LTE 测试仪: CMW500
3. 辐射模式与增益	1. 辐射模式 2. 天线增益	1. 暗室: 7x4x3 m (ETS-3D) 2. 网络分析仪: HP Agilent8753ES

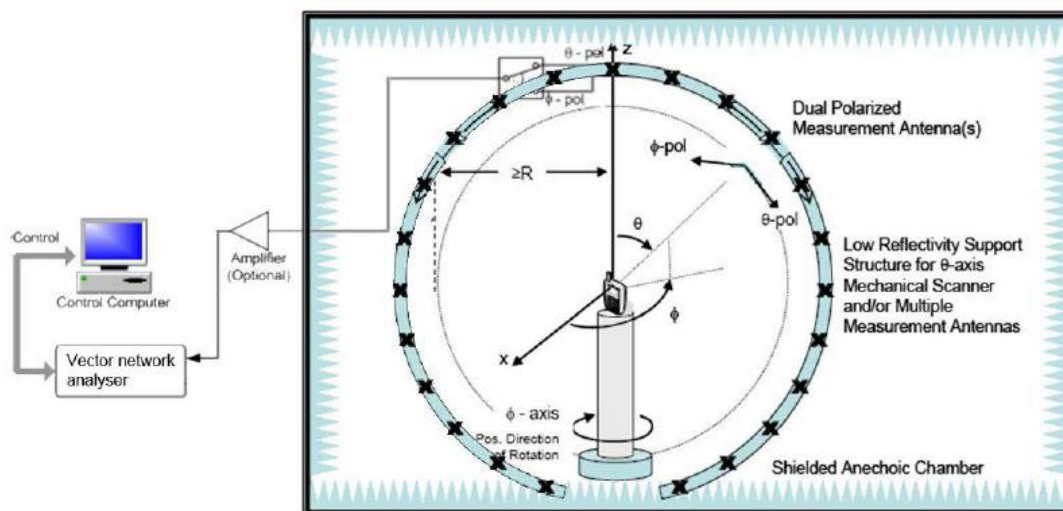


4. Antenna assembly environment processing diagram



5. Antenna Performance Test

Antenna gain, efficiency and radiation pattern test setup



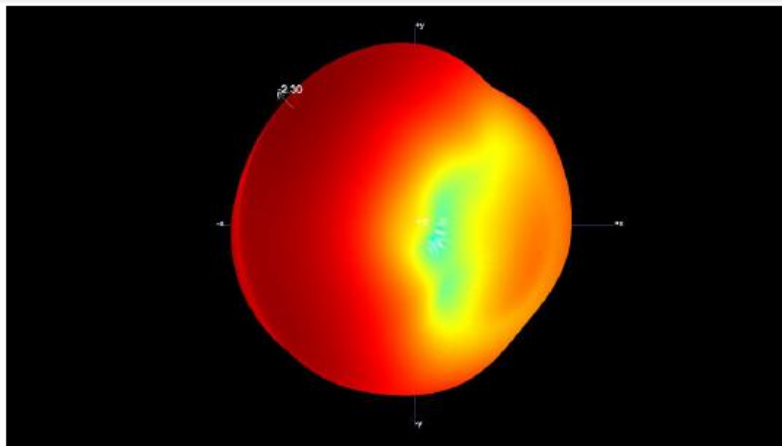
6. Antenna testing efficiency

Frequency	Gain (dBi)	Efficiency (%)
2400MHz	-2.30	20
2410MHz	-2.40	20
2420MHz	-2.49	21
2430MHz	-2.57	20
2440MHz	-2.69	19
2450MHz	-2.86	19
2460MHz	-3.06	19
2470MHz	-3.23	19
2480MHz	-3.29	18
2490MHz	-3.22	18
2500MHz	-3.58	18

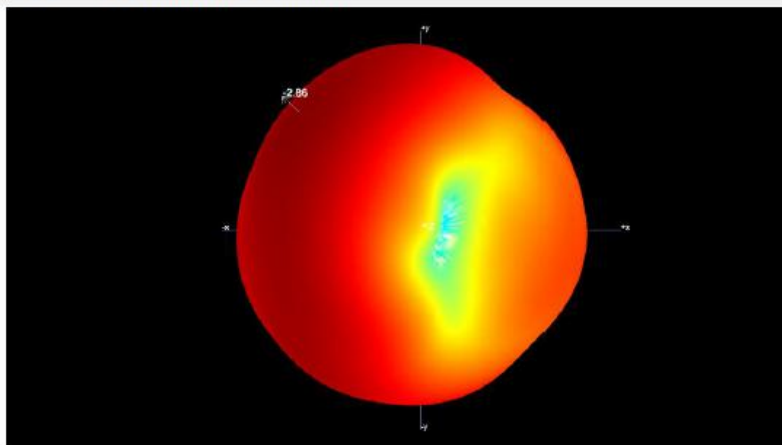
Radiation Pattern

3D Pattern

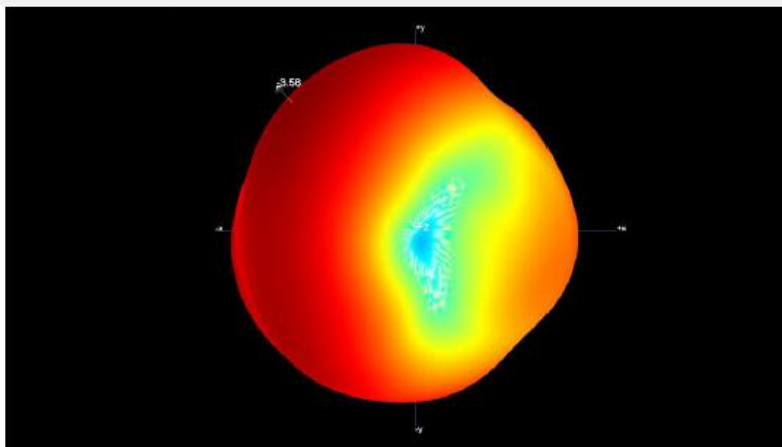
B1.1 3D Pattern for 2400MHz



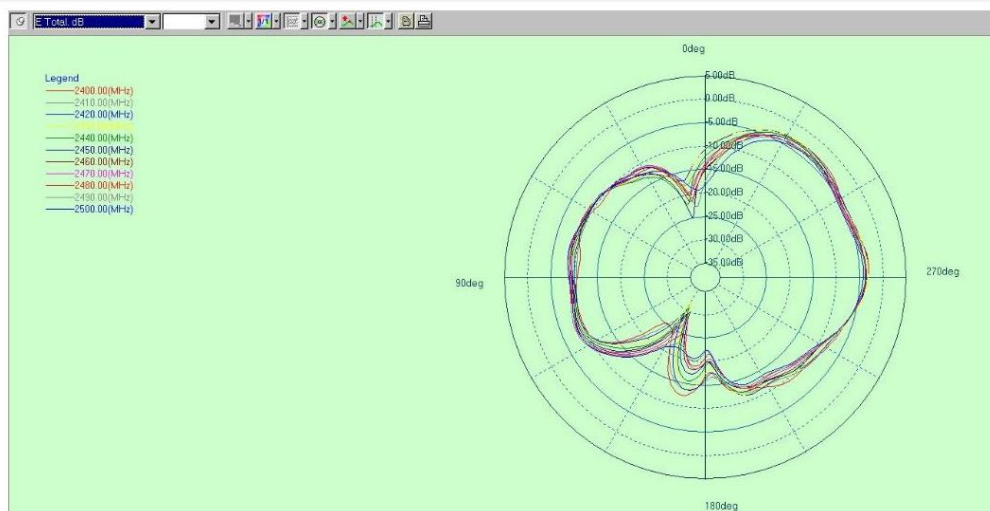
B1.2 3D Pattern for 2450MHz



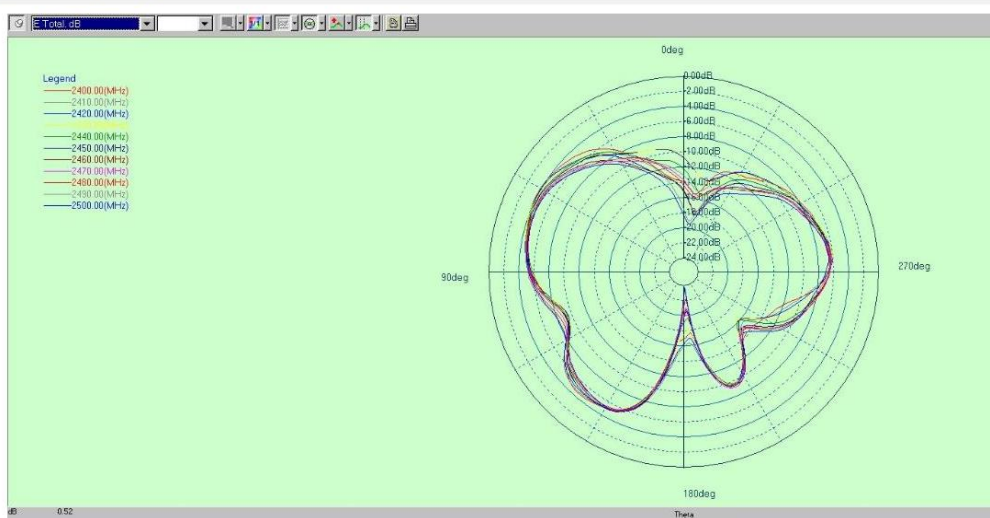
B1.3 3D Pattern for 2500MHz



B2.1 PHI=0



B2.2 PHI=90



B2.3 THETA=90

