

Antenna Test Report

SHENZHEN KURUIJIE

Manufacturer: Shenzhen Kuruijie Communication Technology Co., Ltd

Address: 407, Building 5c, Huaqiang Creative Park, Biyan
Community, Guangming Street, Guangming District, Shenzhen

Customer:United Optics

Project:K191

Antenna Type: FPC

Antenna Model: KRJ-K191-V1.0

RF Engineer:Li XIN

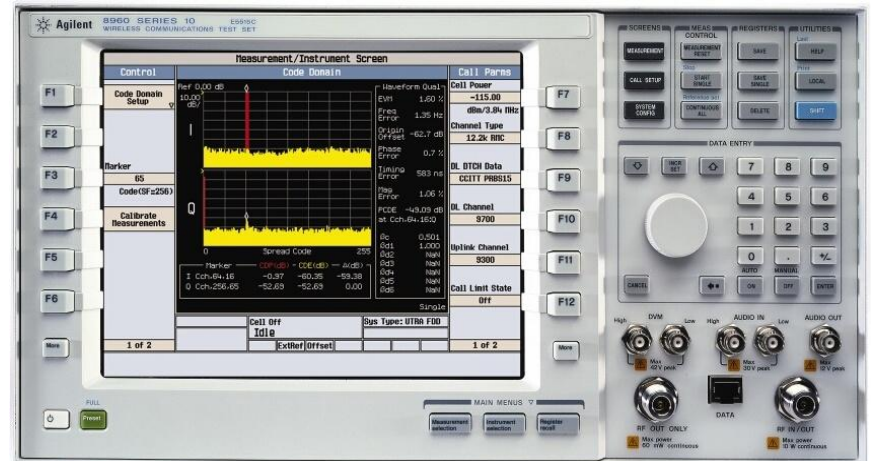
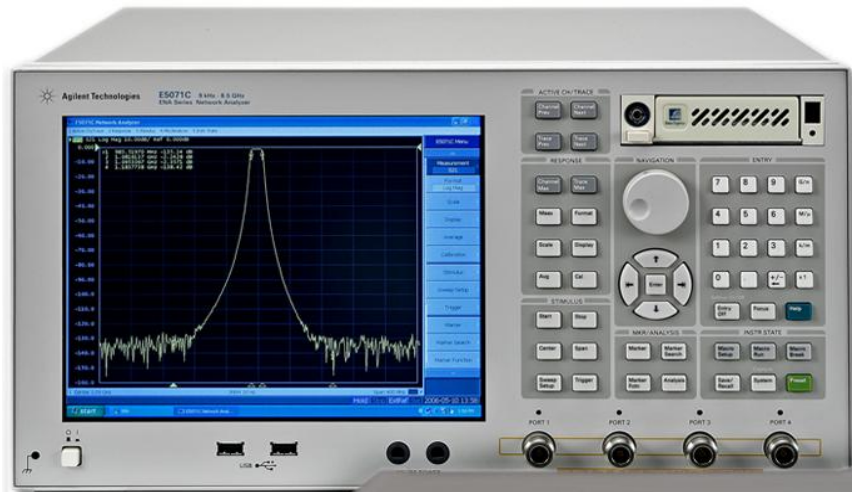
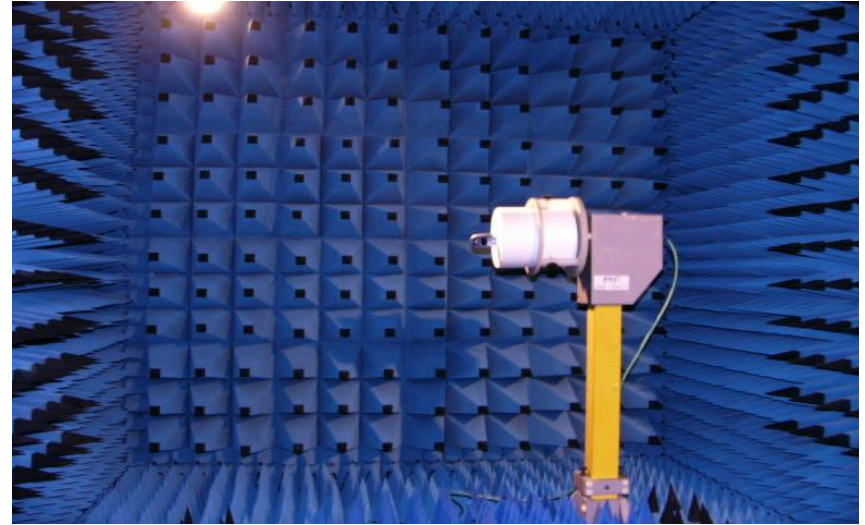
Testing Date:2025.09.18

Index:

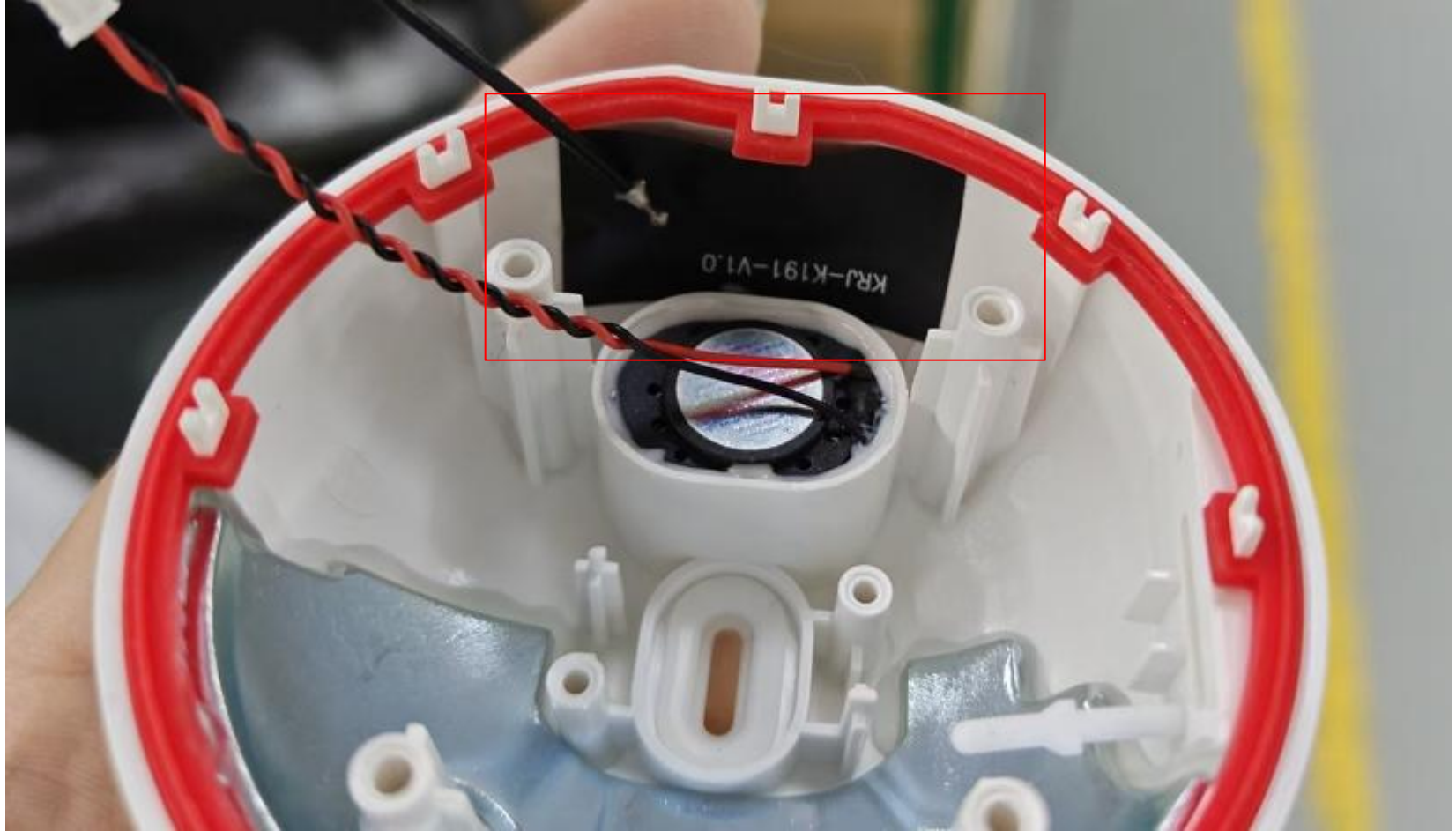
- 1. Testing Item & Equipments**
- 2. Matching Circuits**
- 3. Environmental Disposal**
- 4. Test Data**

1. The Equipment of Active Test

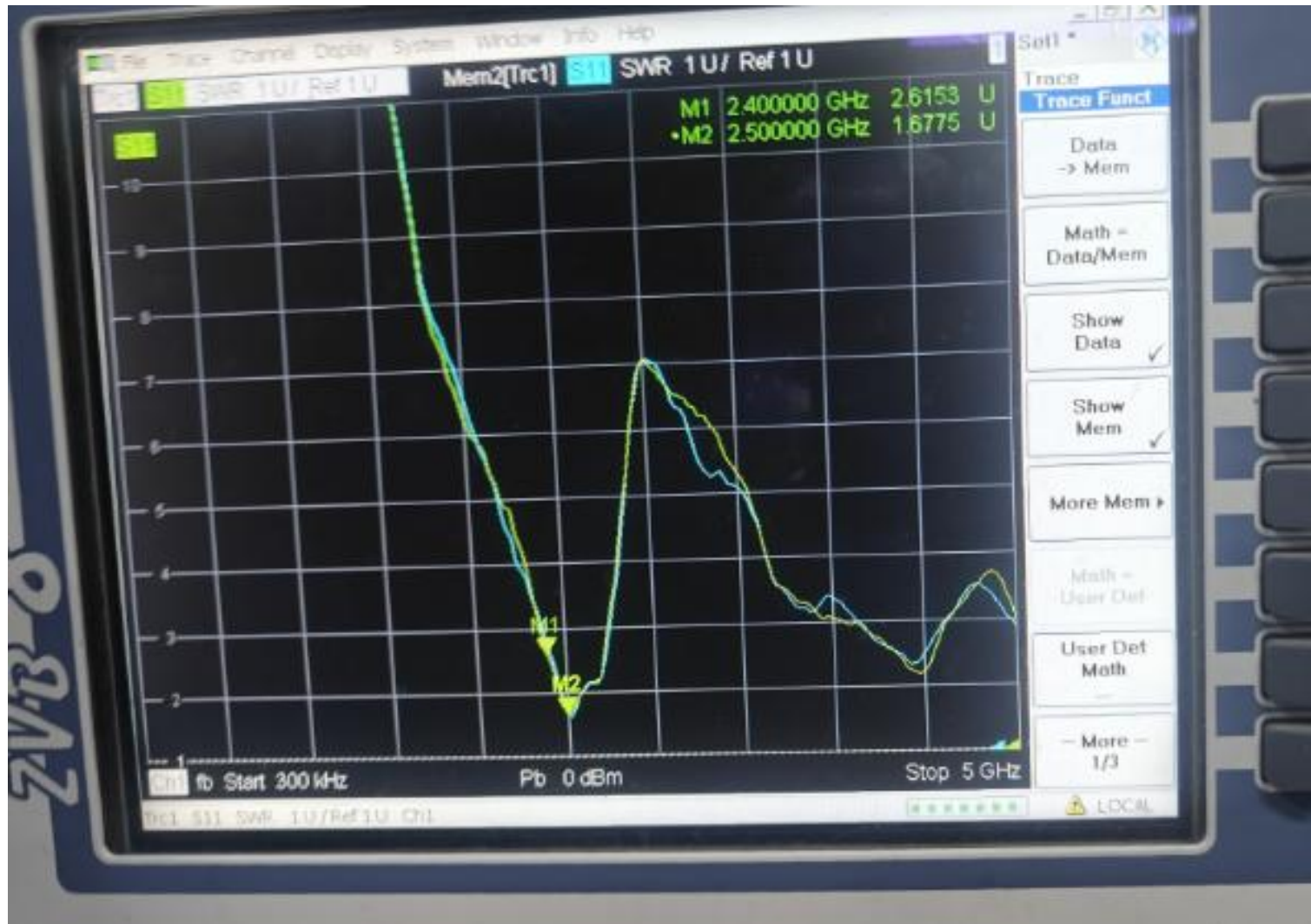
- 1: Anechoic Chamber 7x4x3 m (3D)
- 2: Rohde & Schwarz CMW500
- 3: AGILENT 8960 5515C
- 4: Network Analyzer-AGILENT ENA5071B



2. Matching **Antenna region**



WIFI Antenna

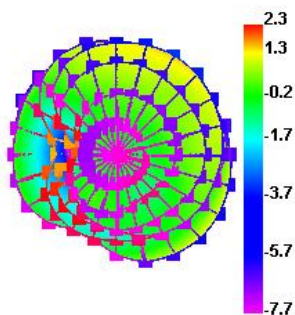


WIFI Antenna efficiency gain

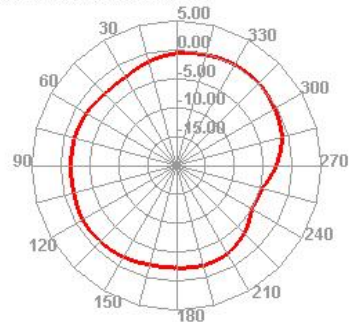
Passive Test For wifi2.4		
Freq	Effi	Gain
(MHz)	(%)	(dBi)
2400	57. 7	2. 32
2420	51. 95	1. 6
2440	53. 51	1. 82
2460	61. 55	2. 56
2480	59. 97	2. 28
2500	58. 49	1. 69

Apple map

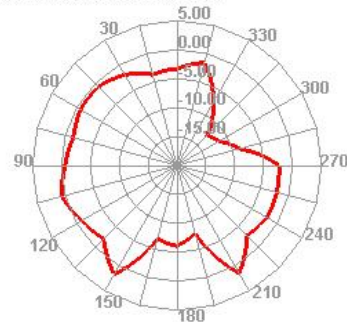
2400.000MHz



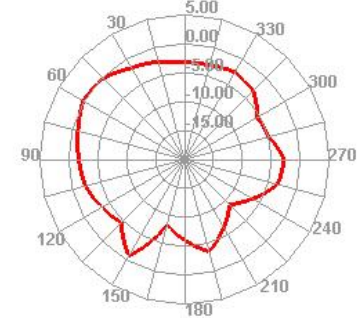
2400.000MHz H



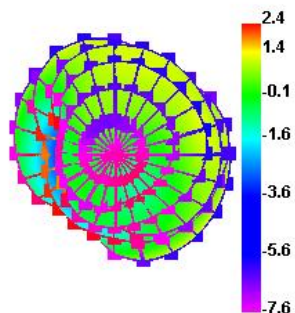
2400.000MHz E1



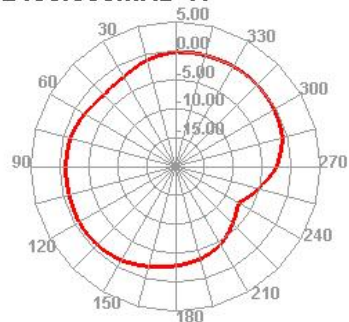
2400.000MHz E2



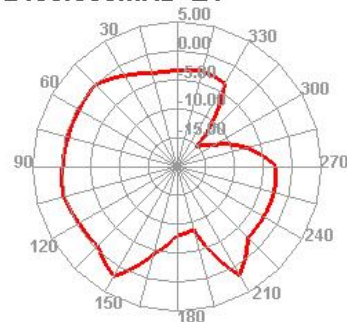
2450.000MHz



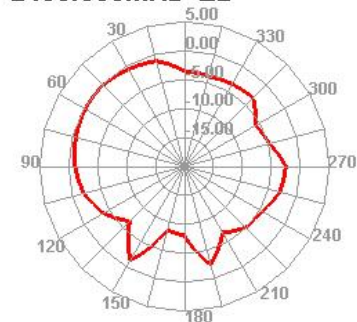
2450.000MHz H



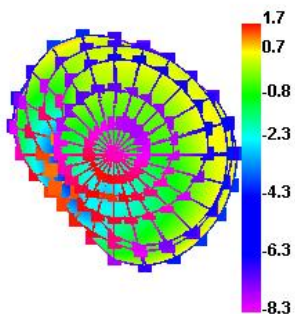
2450.000MHz E1



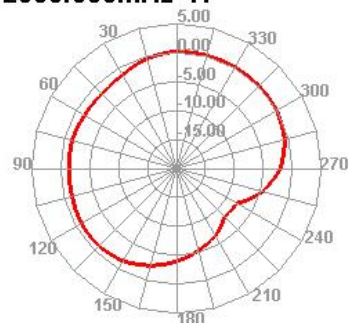
2450.000MHz E2



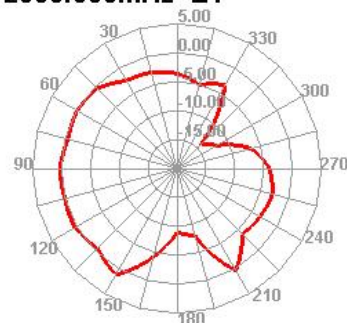
2500.000MHz



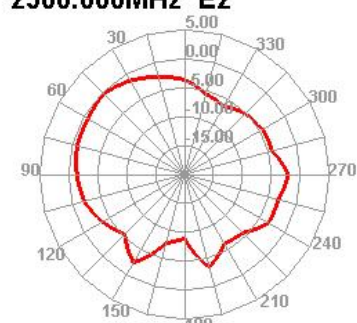
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



4. Test Data

	WIFI2.4G _(b/11m)		
	1	6	11
TRP(dBm)	18.5	19.2	19.3
TIS(dBm)	-73.5	-76.8	-72.3

	WIFI2.4G _(n/MCS1)		
	1	6	11
TRP(dBm)	18.0	18.3	16.9
TIS(dBm)	-72.7	-76.0	-70

	WIFI2.4G _(g/11m)		
	1	6	11
TRP(dBm)	17.7	18.5	18.4
TIS(dBm)	-72.8	-76.0	-72.4

	WIFI2.4G _(AX/6m)		
	1	6	11
TRP(dBm)	17.9	16.5	15.0
TIS(dBm)	-75.7	-78.5	-72.2