

Mobile Station Over-The-Air Summation Test Report.

On the 2G/3G/WiFi/Bluetooth/GPS Mode

Report No.:

HW Version:

Testing Performed at Guangping OTA Lab

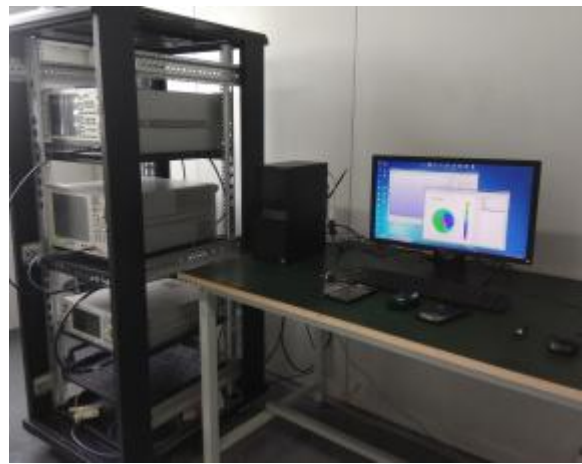
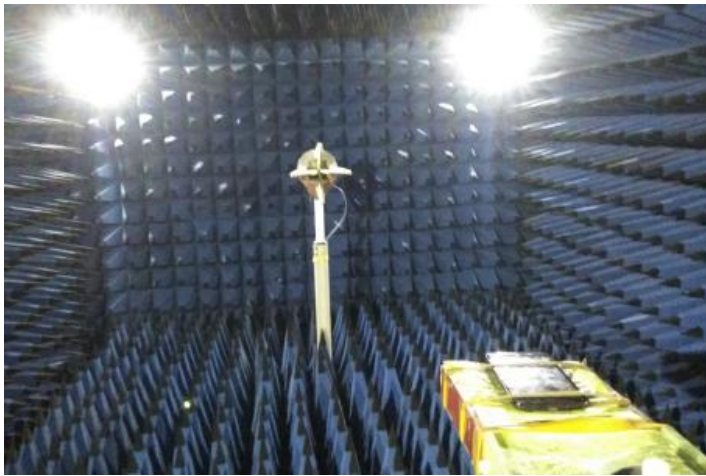
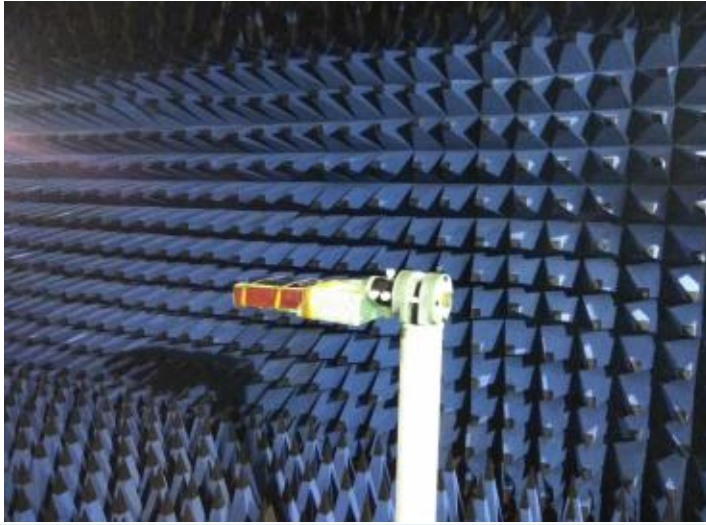
[CoolRuijie R & D Center]

[Date] 08/08/2023

[Shenzhen Guangming District Huaqiang Creative Industrial Park]

	Name	Function	Date	Signature
Test performed by:	[宋祖义]	Antenna RF engineer	[08/08/2023]	
Report created by:	[安增侠]	RF Leader ODM China or PM	[08/08/2023]	

1. Test System General Information.



2. Antenna types and locations

GPS/WIFI/BT(PIFA)

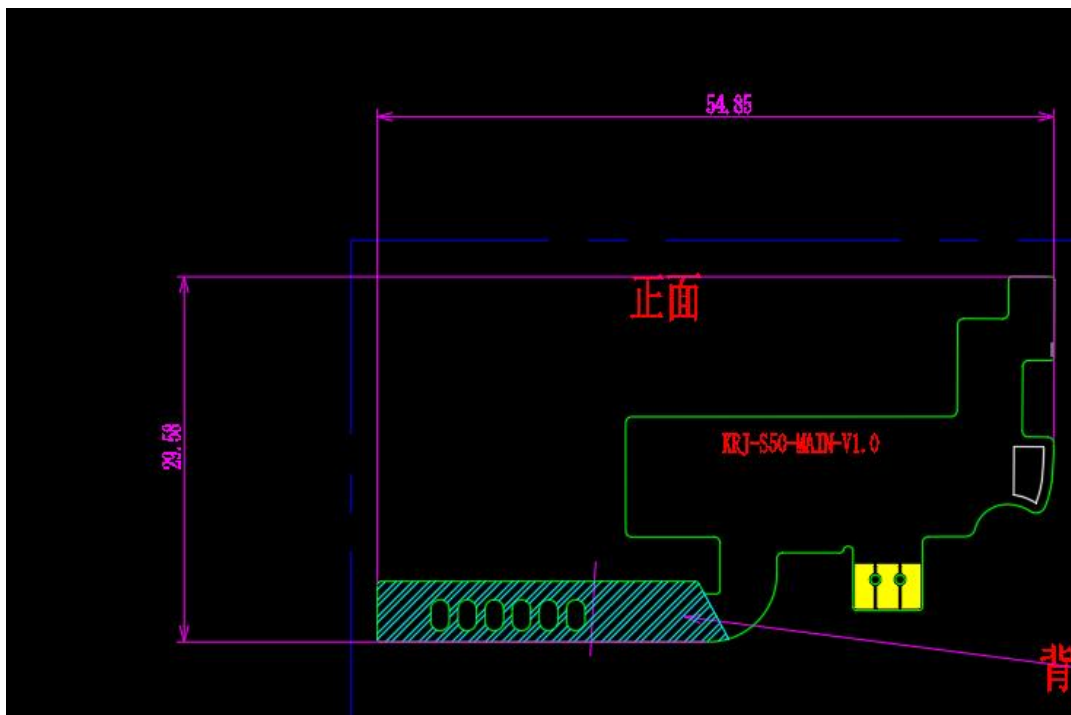
FM(monopole)



Antenna(PIFA)

3. Design and printed pattern

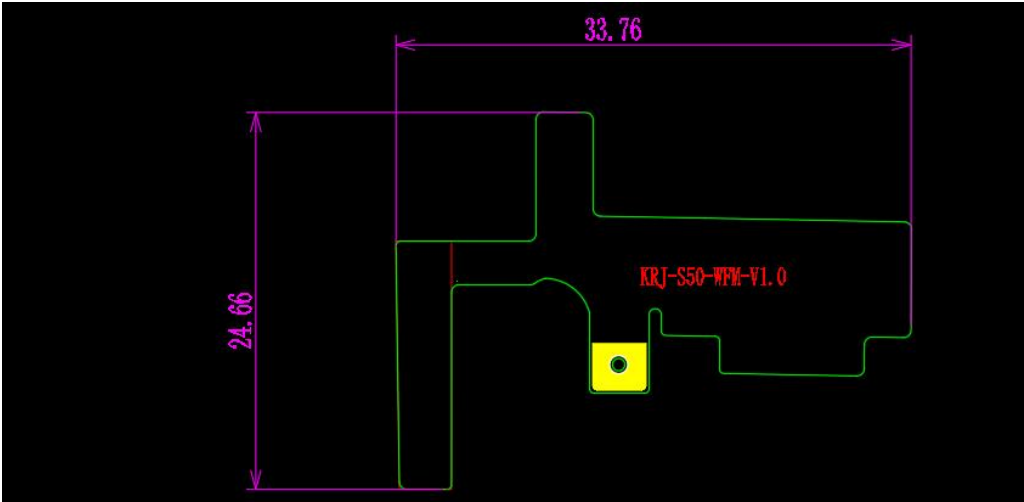
main antenna



GPS / WIFI / BT antenna



GPS / WIFI / BT antenna

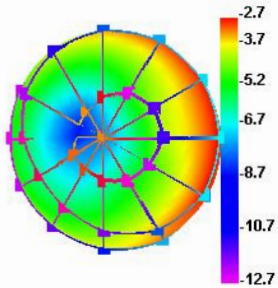


3. Antenna gain, direction diagram:

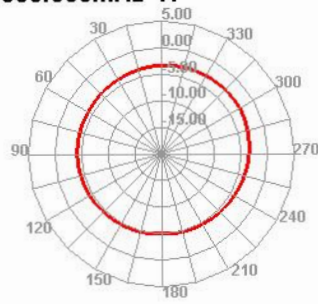
main antenna

Passive Test For 824-2170		
Freq	Effi	Gain
(MHz)	(%)	(dBi)
850	41.2	0.8
1710	48.0	1.8
1870	55.2	1.8

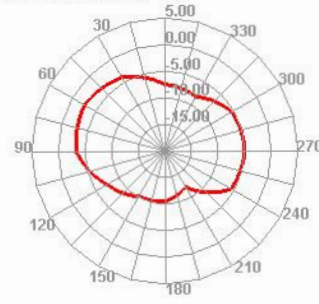
850.000MHz



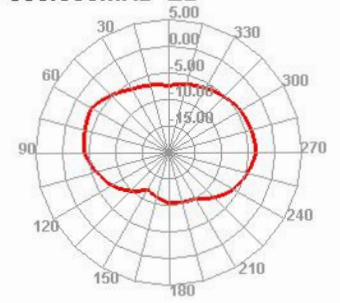
850.000MHz H



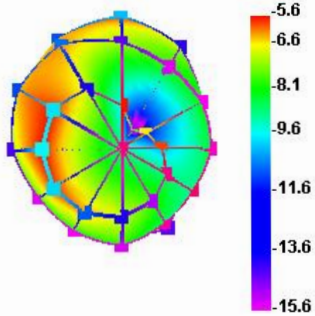
850.000MHz E1



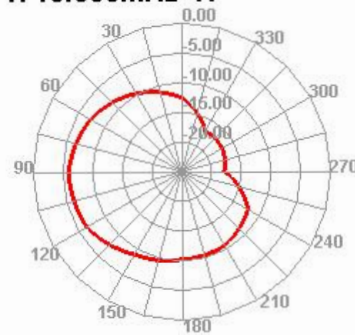
850.000MHz E2



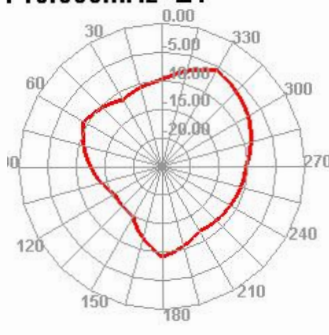
1710.000MHz



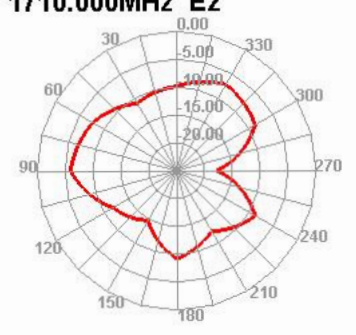
1710.000MHz H



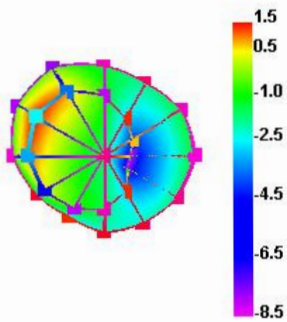
1710.000MHz E1



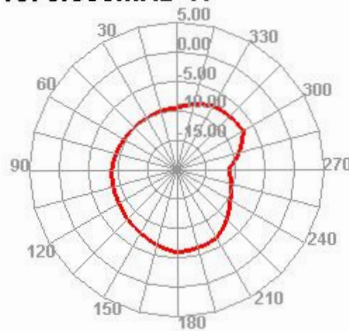
1710.000MHz E2



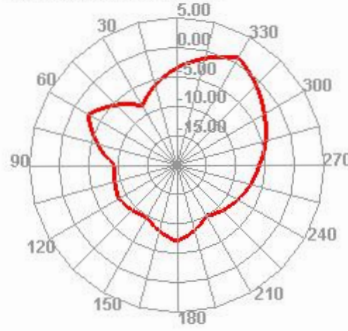
1870.000MHz



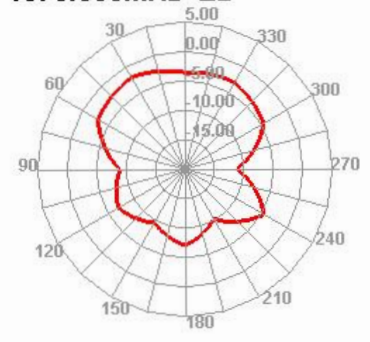
1870.000MHz H



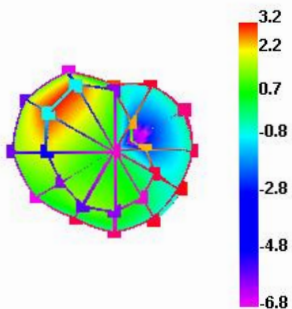
1870.000MHz E1



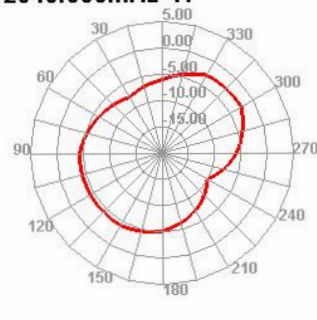
1870.000MHz E2



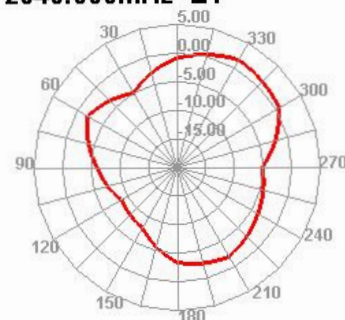
2040.000MHz



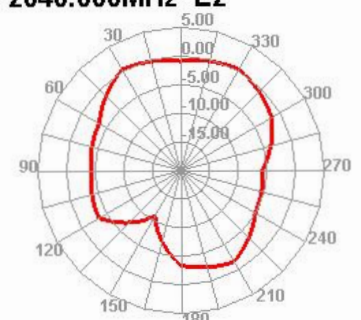
2040.000MHz H



2040.000MHz E1

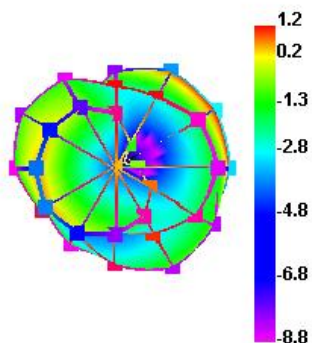


2040.000MHz E2

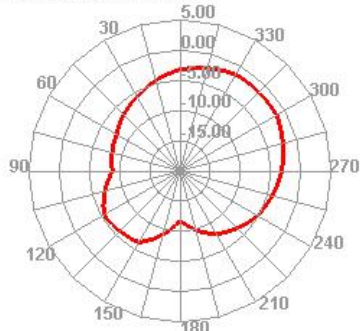


Passive Test For WIFI/BT/GPS		
Freq	Effi	Gain
(MHz)	(%)	(dBi)
1575	34.3	0.7
2450	48.1	1.0

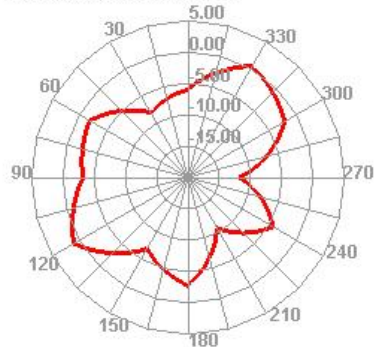
1575.000MHz



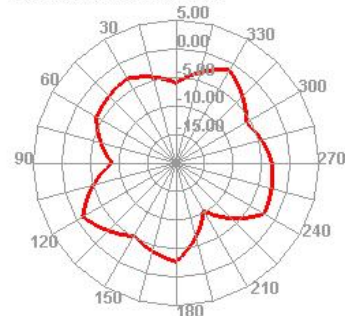
1575.000MHz H



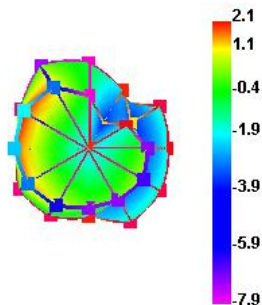
1575.000MHz E1



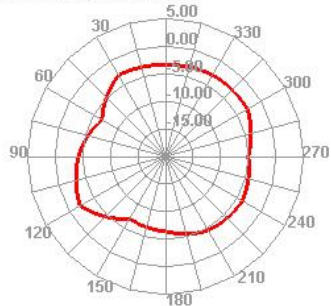
1575.000MHz E2



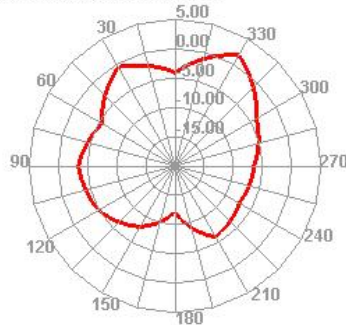
2450.000MHz



2450.000MHz H



2450.000MHz E1



2450.000MHz E2

