

Antenna Report

2024/7/3

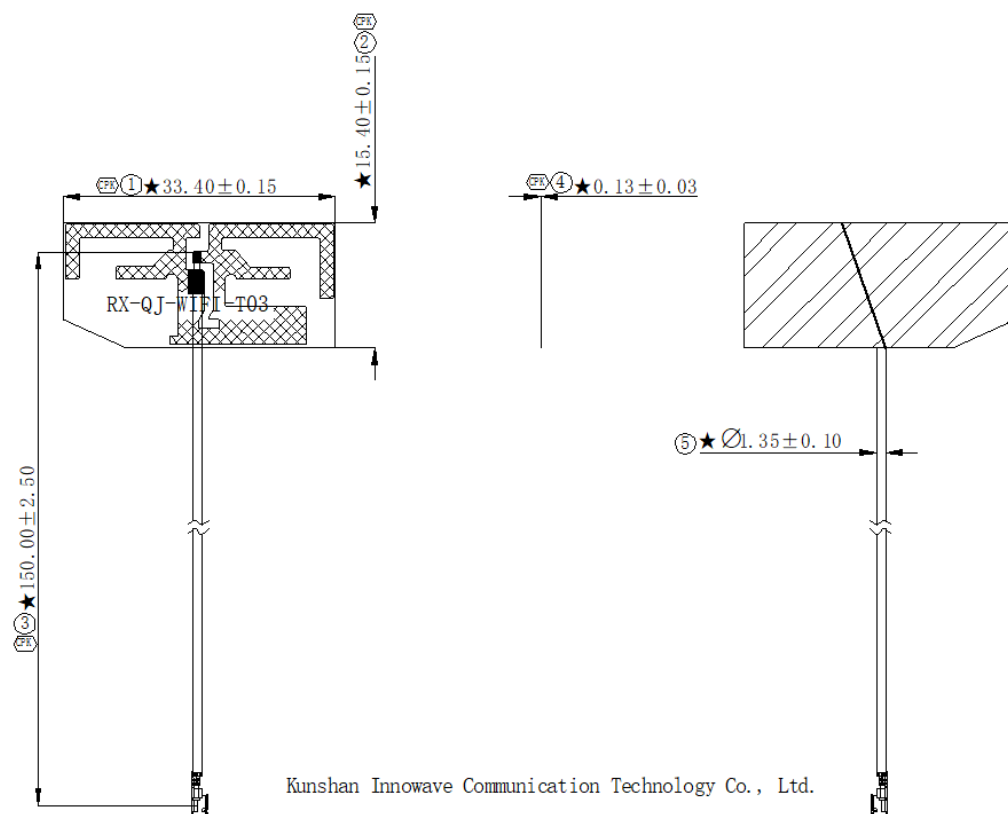
Contents

- 1 Specification.....3
- 2 Antenna Dimension4
- 3 Picture5
- 4 Electrical Test.....6
 - 4.1 Method6
 - 4.2 Device.....6
 - 4.3 Test Configuration.....7
 - 4.4 Passive Test.....8

1 Specification

Specification	
Name and address of the antenna manufacturer	Kunshan Innowave Communication Technology Co., Ltd. Address: Building H, Jindi Zhizao Park, Shengchuang Road, Yushan Town, Kunshan City, Suzhou City, Jiangsu Province
Frequency	Wi-Fi antenna:2400~2500MHz
Antenna Type	Dipole
Dimension	33.4*15.4mm
Impedance	50Ω
Polarization	Linear
VSWR	<2
Axial Ratio	not involved
Efficiency	40~50%@2.4~2.5GHz
Gain	-0.15~1.16dbi @2.4~2.5GHz
Radiation Pattern	omnidirectional antenna
Connection	IPEX1
Line Type	not involved
Line Loss	not involved
Power Handling	1W
Operating Temperature	-20~70℃

2 Antenna Dimension



3 Picture



4 Electrical Test

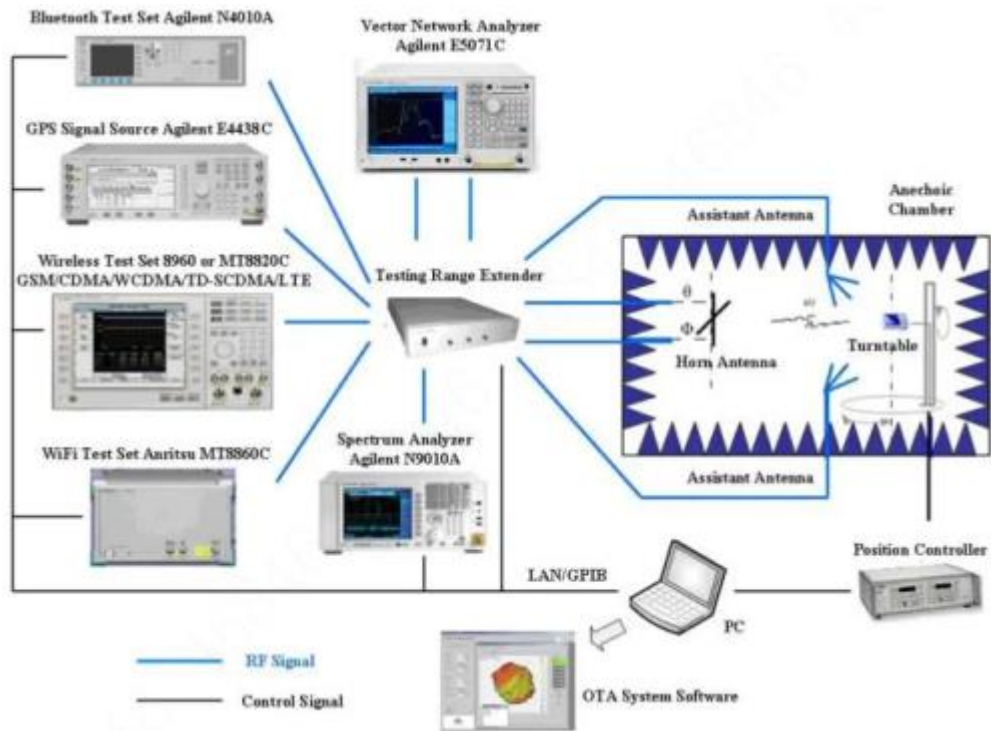
4.1 Method

Name	Parameter	Method	Standard no.
Mobile Communication antenna	VSWR	Generic specification for antennas used in the mobile communications	GB/T 9410-2008
	Antenna gain		
	Radiation pattern		
Antenna performance	Radiation efficiency	IEEE Standard Test Procedures for Antennas	ANSI/IEEE Std 149-1979

4.2 Device

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Network Analyzer	Agilent	E5071C	XXXXXX	2024.01.20	2024.01.19

4.3 Test Configuration



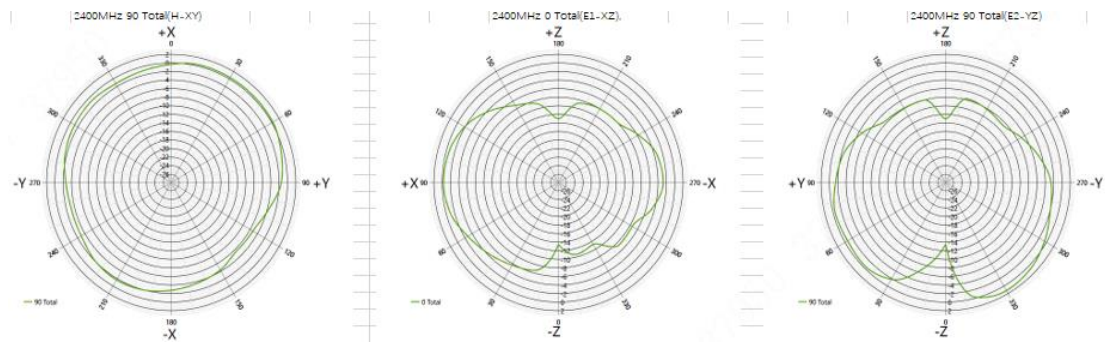
4.4 Passive Test

4.4.1 Efficiency & Gain

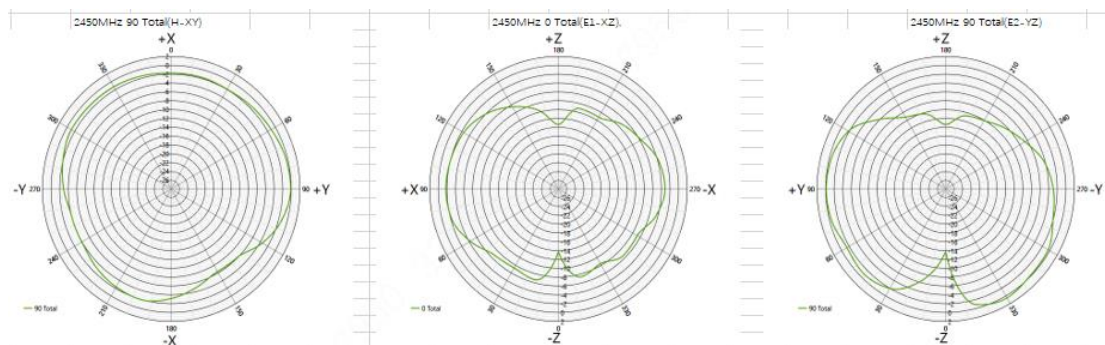
Frequency(MHz)	Efficiency(dB)	Efficiency(%)	Gain(dBi)
2350	-3.753	42.14%	0.077
2360	-3.536	44.30%	0.185
2370	-3.223	47.61%	0.747
2380	-3.246	47.36%	0.953
2390	-3.126	48.69%	1.109
2400	-3.052	49.52%	1.162
2410	-3.007	50.03%	1.062
2420	-3.258	47.23%	0.687
2430	-3.417	45.53%	0.492
2440	-3.283	46.96%	0.558
2450	-3.454	45.15%	0.459
2460	-3.474	44.93%	0.446
2470	-3.523	44.43%	0.253
2480	-3.886	40.87%	-0.15
2490	-3.469	44.99%	0.459
2500	-3.907	40.67%	0.26
2510	-3.773	41.94%	0.674
2520	-3.597	43.68%	1.239
2530	-3.99	39.91%	1.072
2540	-4.366	36.60%	0.718
2550	-4.049	39.36%	1.025

4.4.2 2D Report

2400MHz



2450MHz



2500MHz

