

Antenna report

Entry Name	RS38,RS38WO
Frequency Channel	Wi-Fi:2400-2500Mhz 5150-7125Mhz
Supplier Name	Speed Communication Technology Co., Ltd.
Manufacturer Address	No. 138 Huize Avenue, Dongjiang High tech Industrial Park, Zhongkai High tech Zone, Huizhou City, Guangdong Province

1. Type of Antenna:

WIFI:LDS

Antenna attachment type: Fixed/Internal mounted

Test chamber: ETS

Testing software: Emquest

Test instrument and calibration date: E5071C

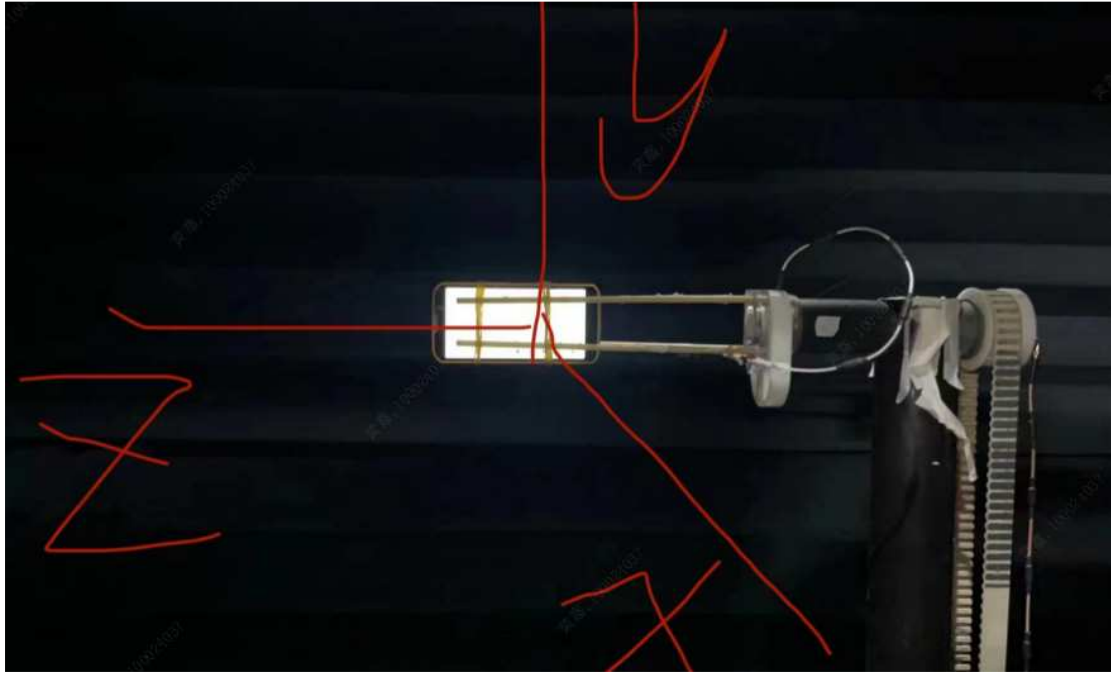
E5017C Calibration date: On April 1st, 2024

Due date: On April 1st, 2025

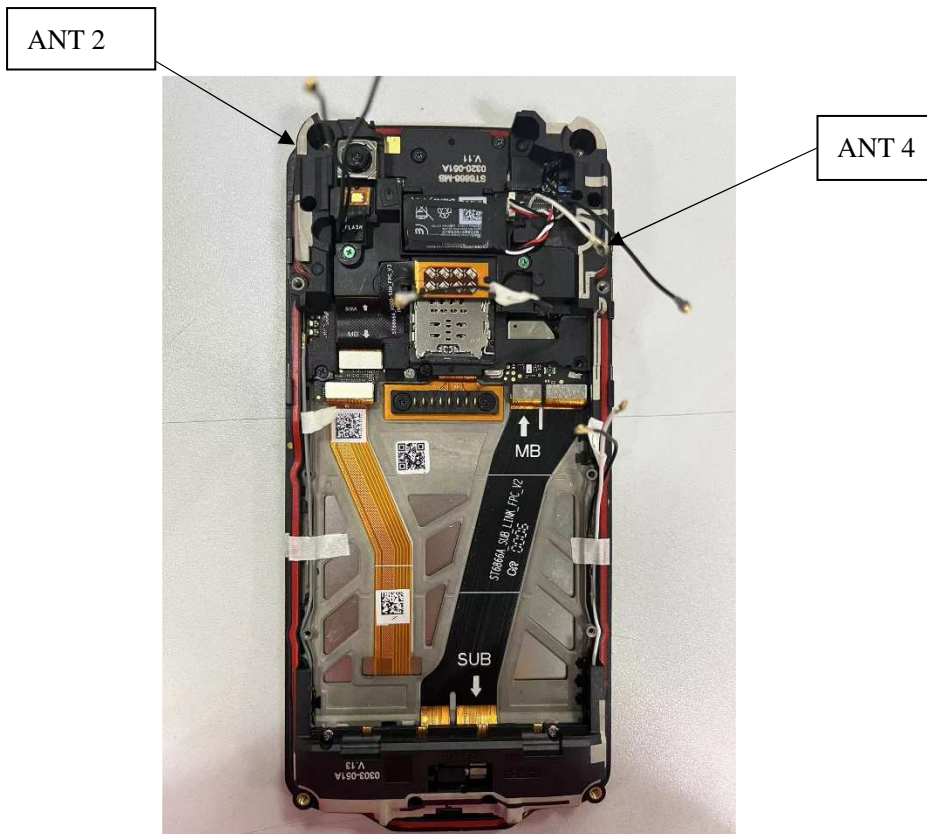
Engineer's signature :

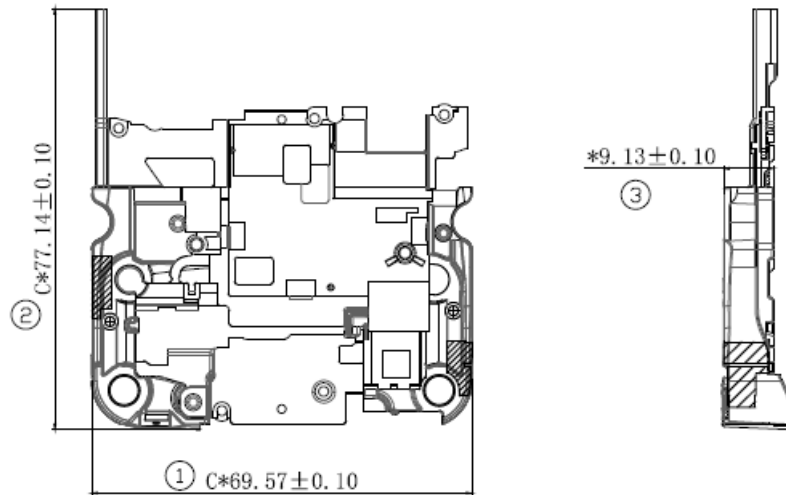


Photo of the antenna test:



2. Antenna Area





3. Gain

WIFI 2 Gain

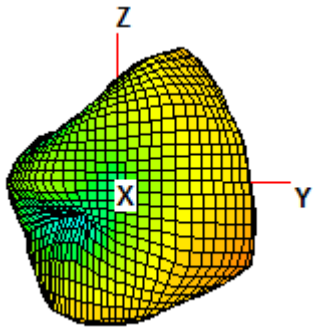
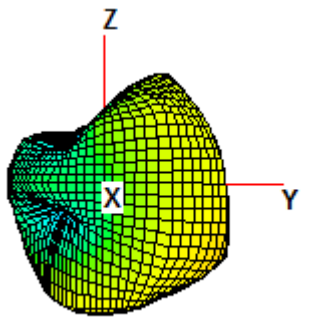
Freq (MHz)	Peak Gain(dBi)
2400~2483.5MHz	1
5150~5250MHz	0.5
5250~5350MHz	0.5
5470~5725MHz	0.5
5725~5850MHz	0.5
5955~7125MHz	-1

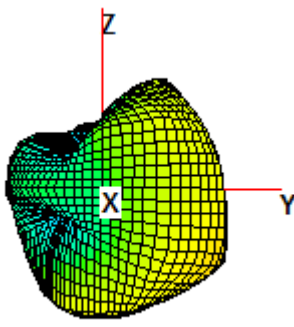
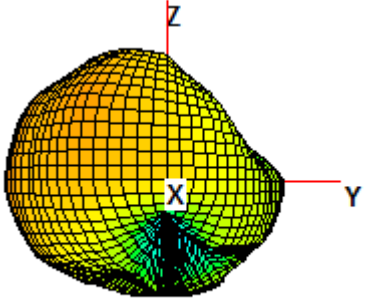
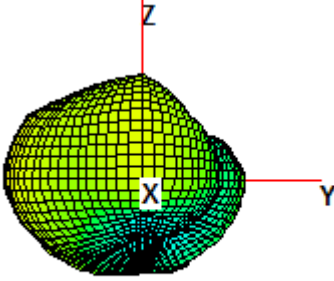
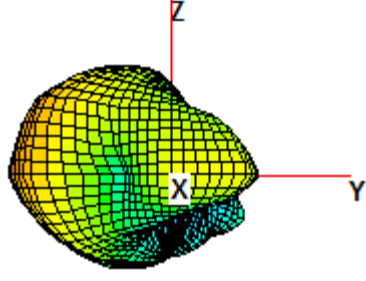
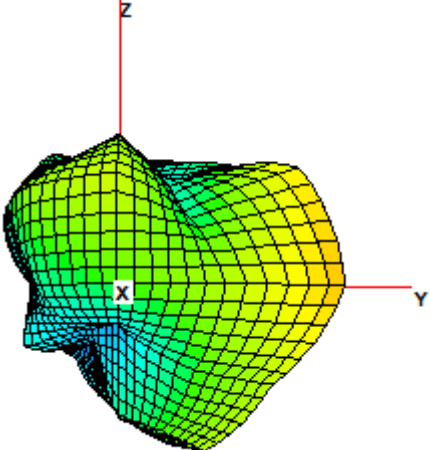
WIFI 4 Gain

Freq (MHz)	Peak Gain(dBi)
2400~2483.5MHz	1
5150~5250MHz	0.5
5250~5350MHz	0.5
5470~5725MHz	0.5
5725~5850MHz	0.5
5995~7125MHz	-0.8

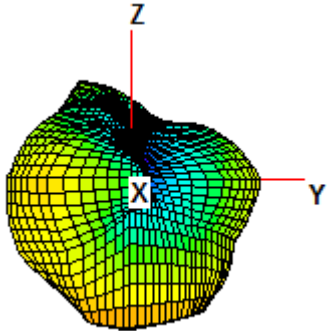
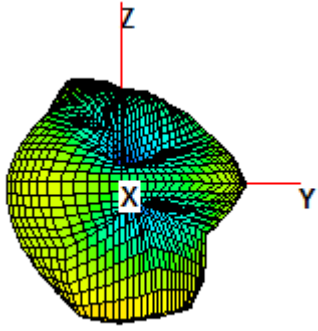
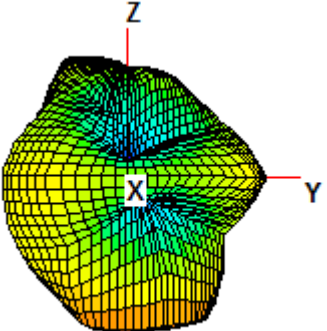
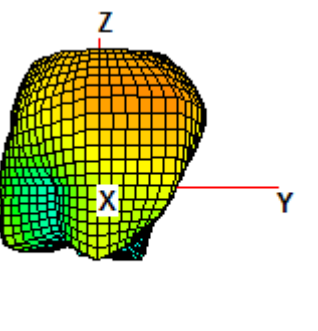
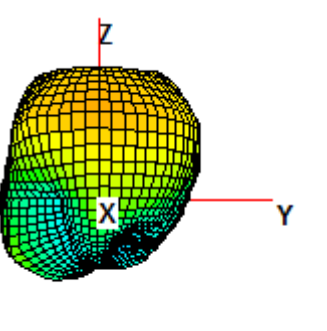
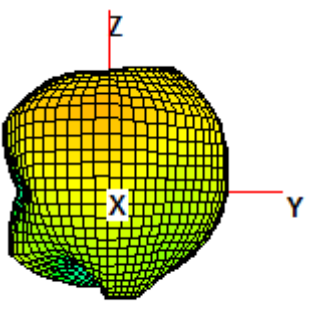
4. 3D Directional Pattern

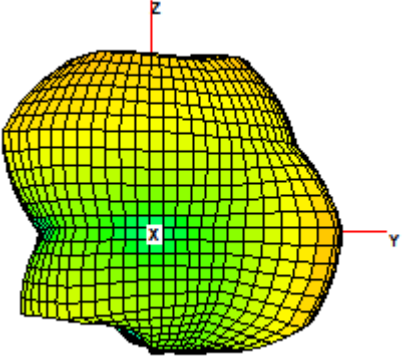
ANT 2

2400MHZ	2480MHZ
	
2500MHZ	5150MHZ

 <p>A 3D radiation pattern plot for 5350MHz. The plot shows a complex, multi-lobed structure with a primary lobe extending along the positive X-axis and a secondary lobe extending along the positive Z-axis. The surface is color-coded from blue (low gain) to red (high gain). A 3D coordinate system with X, Y, and Z axes is shown.</p>	 <p>A 3D radiation pattern plot for 5850MHz. The plot shows a more spherical radiation pattern compared to 5350MHz, with a primary lobe extending along the positive X-axis and a secondary lobe extending along the positive Z-axis. The surface is color-coded from blue to red. A 3D coordinate system with X, Y, and Z axes is shown.</p>
<p>5350MHZ</p>	<p>5850MHZ</p>
 <p>A 3D radiation pattern plot for 6500MHz. The plot shows a radiation pattern with a primary lobe extending along the positive X-axis and a secondary lobe extending along the positive Z-axis. The surface is color-coded from blue to red. A 3D coordinate system with X, Y, and Z axes is shown.</p>	 <p>A 3D radiation pattern plot for 6500MHz. The plot shows a radiation pattern with a primary lobe extending along the positive X-axis and a secondary lobe extending along the positive Z-axis. The surface is color-coded from blue to red. A 3D coordinate system with X, Y, and Z axes is shown.</p>
<p>6500MHZ</p>	
 <p>A 3D radiation pattern plot for 6500MHz. The plot shows a radiation pattern with a primary lobe extending along the positive X-axis and a secondary lobe extending along the positive Z-axis. The surface is color-coded from blue to red. A 3D coordinate system with X, Y, and Z axes is shown.</p>	

ANT 4

2400MHZ	2480MHZ
 <p>A 3D radiation pattern plot for 2400MHz. The plot shows a complex, multi-lobed structure with a central peak and several side lobes. The color scale ranges from blue (low gain) to red (high gain). The X, Y, and Z axes are labeled.</p>	 <p>A 3D radiation pattern plot for 2480MHz. The plot shows a complex, multi-lobed structure similar to the 2400MHz plot, with a central peak and side lobes. The color scale ranges from blue to red. The X, Y, and Z axes are labeled.</p>
2500MHZ	5150MHZ
 <p>A 3D radiation pattern plot for 2500MHz. The plot shows a complex, multi-lobed structure with a central peak and side lobes. The color scale ranges from blue to red. The X, Y, and Z axes are labeled.</p>	 <p>A 3D radiation pattern plot for 5150MHz. The plot shows a complex, multi-lobed structure with a central peak and side lobes. The color scale ranges from blue to red. The X, Y, and Z axes are labeled.</p>
5350MHZ	5850MHZ
 <p>A 3D radiation pattern plot for 5350MHz. The plot shows a complex, multi-lobed structure with a central peak and side lobes. The color scale ranges from blue to red. The X, Y, and Z axes are labeled.</p>	 <p>A 3D radiation pattern plot for 5850MHz. The plot shows a complex, multi-lobed structure with a central peak and side lobes. The color scale ranges from blue to red. The X, Y, and Z axes are labeled.</p>

6500MHZ	
 <p>A 3D radiation pattern plot for a 6500MHz antenna. The plot shows a complex, multi-lobed radiation pattern. The surface is colored with a gradient from green at the base to yellow at the top. A 3D coordinate system is overlaid on the plot, with the Z-axis pointing upwards, the X-axis pointing to the left, and the Y-axis pointing to the right.</p>	