Antenna Test Report

Test Standard:	IEEE 149-1979
Manufacturer:	99help Safety Technology Co., Ltd
Product Name:	2.4GHz Antenna
Model:	JJBDZ_1101
Report No.:	SSP23110015A
Tested Date:	2023-11-01
Issued Date:	2023-11-02
Tested By:	William Liu (Engineer)
Approved By:	Lahm Peng (Manager)

Prepared By:

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1. General Information

1.1 Product Information

Manufacturer	
Manufacturer:	99help Safety Technology Co., Ltd
Address of Manufacturer:	01-26, 12th Floor, Building 1, No. 25, Landianchang South Road, Haidian
	District, Beijing, China

General Description of Antenna	
Product Name:	2.4GHz Antenna
Model No.:	JJBDZ_1101
Frequency Range:	2400MHz-2483.5MHz
Type of Antenna:	PCBl Antenna
Antenna Gain:	0dBi (Max.)
Impedance:	50 ohm
Antenna View (10mm*5mm) 	

1.2 Test Methodology

All measurements contained in this report were conducted with standards IEEE 149-1979 for IEEE Standard Test Procedures for Antennas.

1.3 Test Facilities

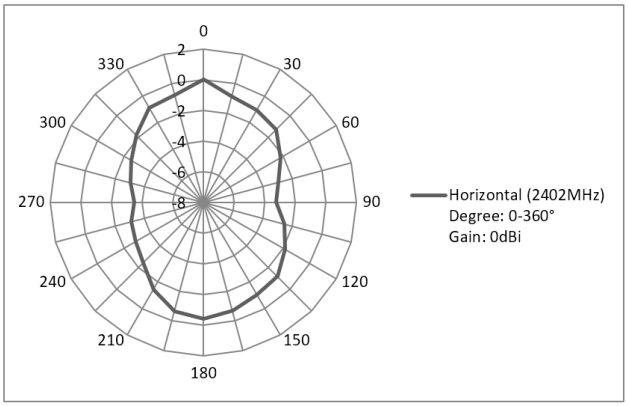
Testing Lab: Shenzhen ZRLK Testing Technology Co., Ltd.
All measurement facilities used to collect the measurement data are located at 1F, No. 35 Building, Changxing Technology Industrial Park, Yutang Street, Guangming New District, Shenzhen City, Guangdong Province, China

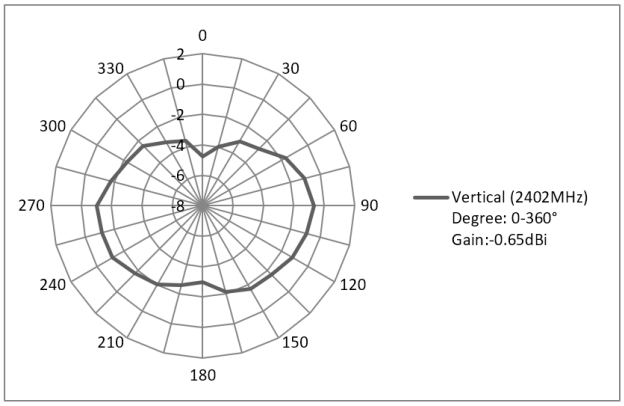
2. OTA Test

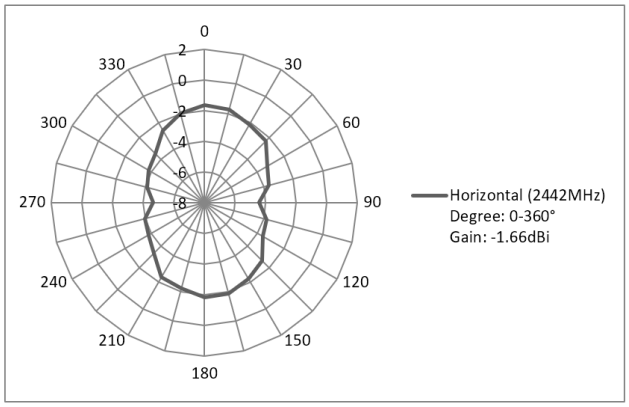
2.1 Gain

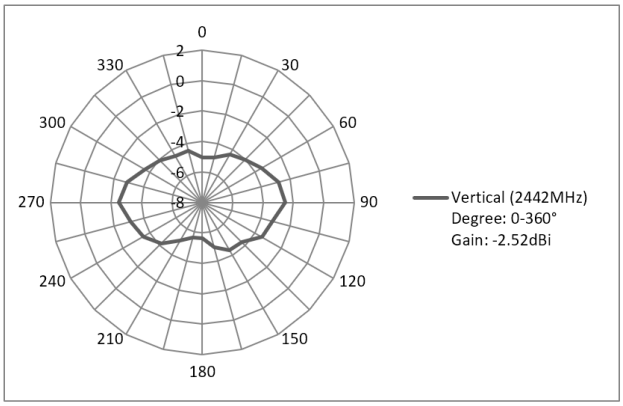
Frequency	Peak Gain (dBi)	Polarity
2402MHz	0	Horizontal
2402MHz	-0.65	Vertical
2442MHz	-1.66	Horizontal
2442MHz	-2.52	Vertical
2480MHz	-2.72	Horizontal
2480MHz	-2.98	Vertical

2.2 Radiation Pattern View






0
30
60
90
120
150
180
210
240
270
300
330
2
0
-2
-4
-6
-8
Horizontal (2442MHz)
Degree: 0-360°
Gain: -1.66dBi


0
30
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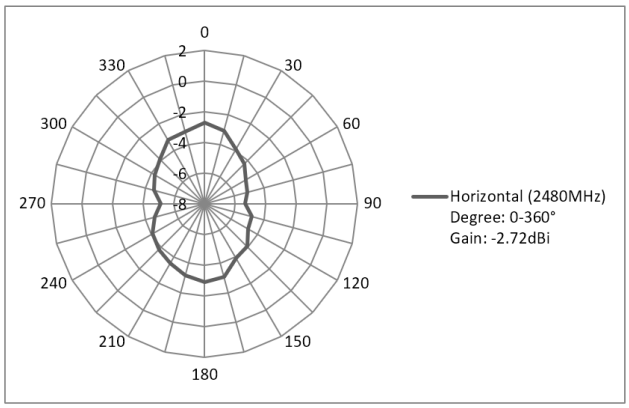
2
0
-2
-4
-6
-8
Vertical (2442MHz)
Degree: 0-360°
Gain: -2.52dBi


0
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120
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2
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-2
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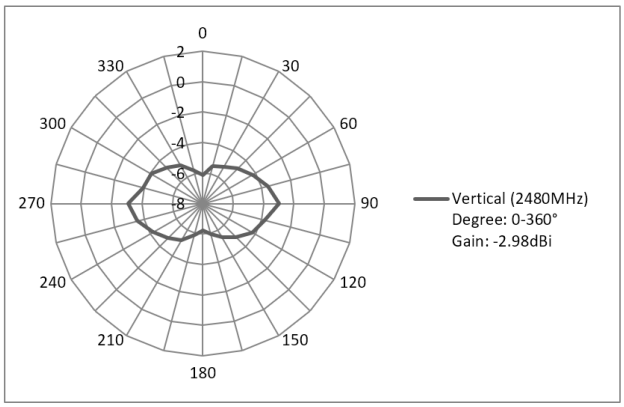
Horizontal (2480MHz)
Degree: 0-360°
Gain: -2.72dBi


0
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210
240
270
300
330
2
0
-2
-4
-6
-8
Vertical (2480MHz)
Degree: 0-360°
Gain: -2.98dBi