

Antenna Report

Model No: HM24SW

FCC ID: 2BFEG-9284

Frequency Range of operation:2.402GHz-2.480GHz

Antenna Type: PCB onboard

Peak Antenna Gain: 1.9 dBi

Measurement Test Method:

- 1) Maintain the test ambient temperature of 23 ± 2 C, the instrument is powered on and preheated for more than 30 minutes;
- 2) Turn on the darkroom power supply, connect the test cable, and set up the sample according to the standard;
- 3) Outline sets the test content objectives and conducts calibration tests;
- 4) Run the software, when the test is completed, export the corresponding test diagram and test data, and save to the corresponding directory.

Test Equipment calibration information:

Name	Manufacturer	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
Network Analyzer	Agilent	E5071C	MY46630767	2024.4.24	2025.4.23
Network Analyzer	Agilent	E5071C	MY46630767	2024.4.24	2025.4.23
Microwave chamber	GTS	GTS Maxsign-Dart7000		2024.4.14	NA
Turn table	GTS	Dart-700 turn table		2024.4.14	NA
turn table controller	GTS	Dart-700 turn table controller		2024.4.14	NA
Broad-Band Horn Antenna	GTS	AT-6000	MA-D0460	2024.4.14	NA
Test Software	GTS	Libra Version-3.0.3.1		2022.8.23	2024.8.23

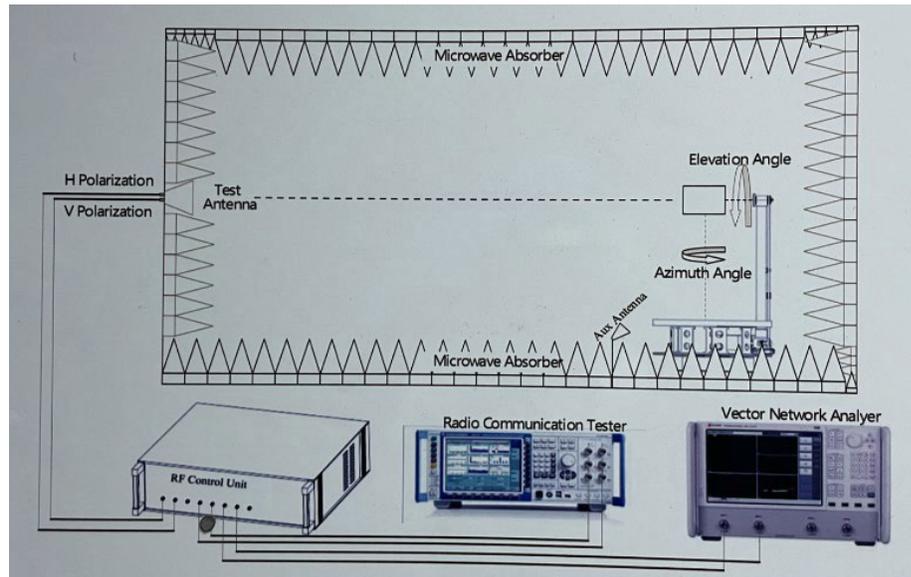
Company: Tonly Technology Co., Ltd.

Test site information: Address: Section 37, Zhongkai High-tech Development Zone, Huizhou City, Guangdong Province, 516006 China

Test date : 2024-06-15

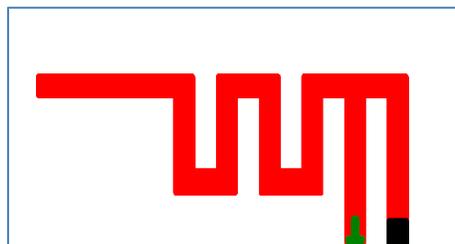
Test engineer information: 周赣 Austin.zhou

Test Set up:



Test setup photo (Please refer to Antenna photos document)

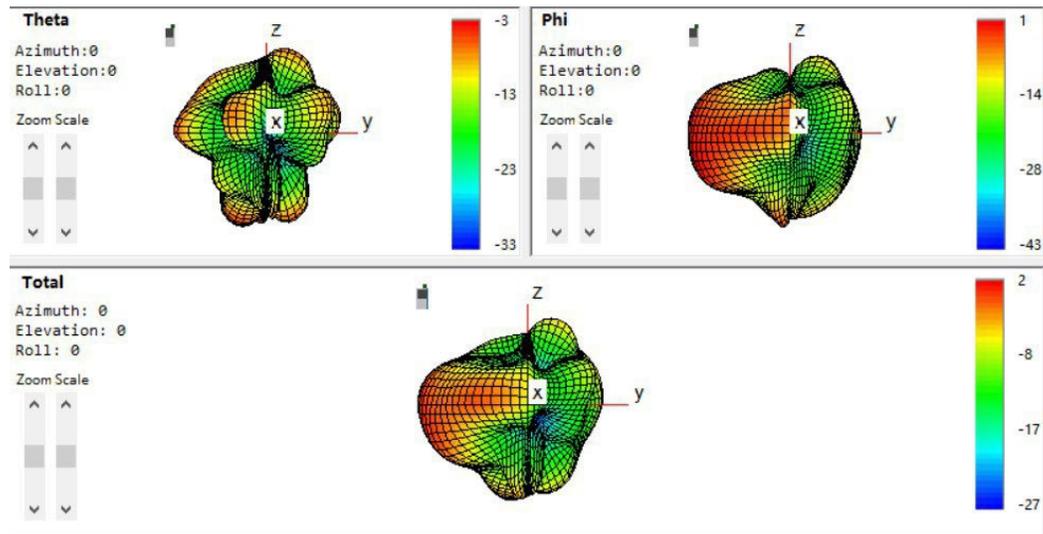
Antenna Size (7*17.4mm)



Antenna Performance

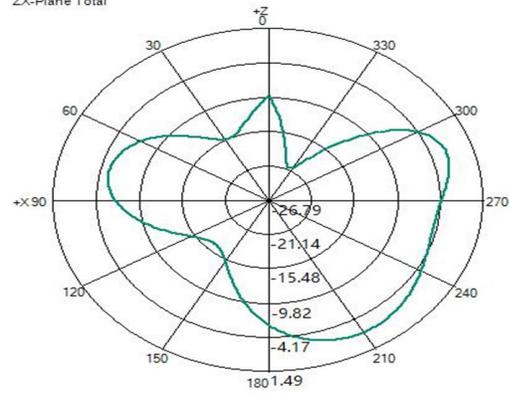
Freq(MHz)	Efficiency(dB)	Efficiency(%)	Gain(dBi)
2400	-5.05	31.29	1.9
2410	-5.32	29.37	1.66
2420	-5.3	29.5	1.69
2430	-5.4	28.87	1.64
2440	-5.75	26.58	1.39
2450	-6.32	23.36	0.96
2460	-6.49	22.45	0.96
2470	-6.51	22.35	1
2480	-6.64	21.66	0.79
2490	-6.59	21.94	0.76
2500	-6.79	20.93	0.45

Antenna radiation pattern (3D)

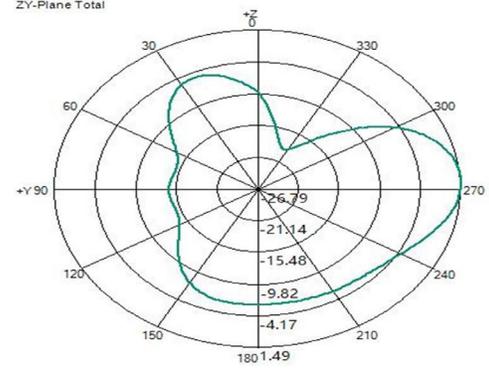


Antenna radiation pattern (2D)

ZX-Plane Total



ZY-Plane Total



XY-Plane Total

