AUGi_Vision
DVT Antenna
TEST REPORT

Product Name	AUGi Vision
Applicant	AWAN
Manufacturer	AWAN
Test site	AWAN
Model	Vision_WLAN
Antenna type	WIFI 1_Dipole/ WIFI 2_Dipole
Address	5F., No. 225, Sec. 3, Beixin Rd., Xindian Dist., New Taipei City 231 , Taiwan

Approved by	Reviewed by	Issued by
Taka Wei	Ella Lin	Ella Lin

TABLE OF CONTENT

1. INTRODUCTION

1.1 TEST EQUIPMENT

Passive Test:

Network Analyzer: Keysight E507C (100KHz ~ 8.5GHz)

Passive Chamber: AMS-8500

1.2 TEST CONDITION

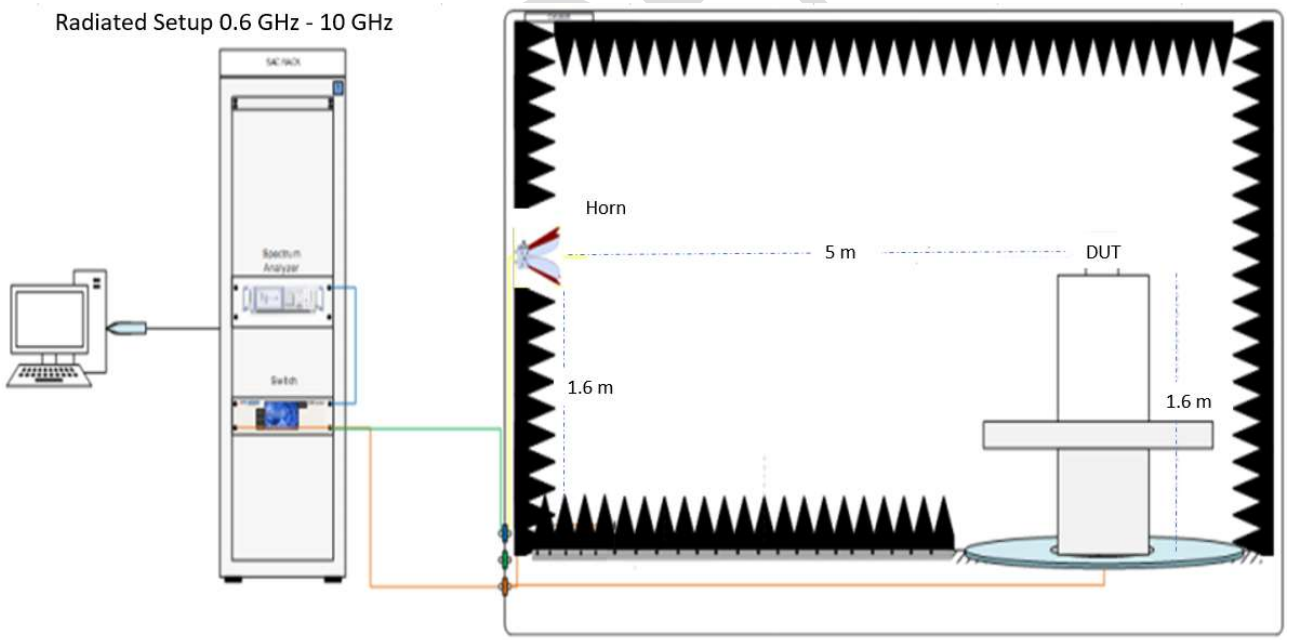
Support Band: WIFI 1 _2402MHz~2480MHz, 4910MHz~5850MHz

WIFI 2 _2402MHz~2480MHz, 4910MHz~5850MHz

Temperature: 25°C

1.3 TEST SETUP AND ENVIRONMENTS

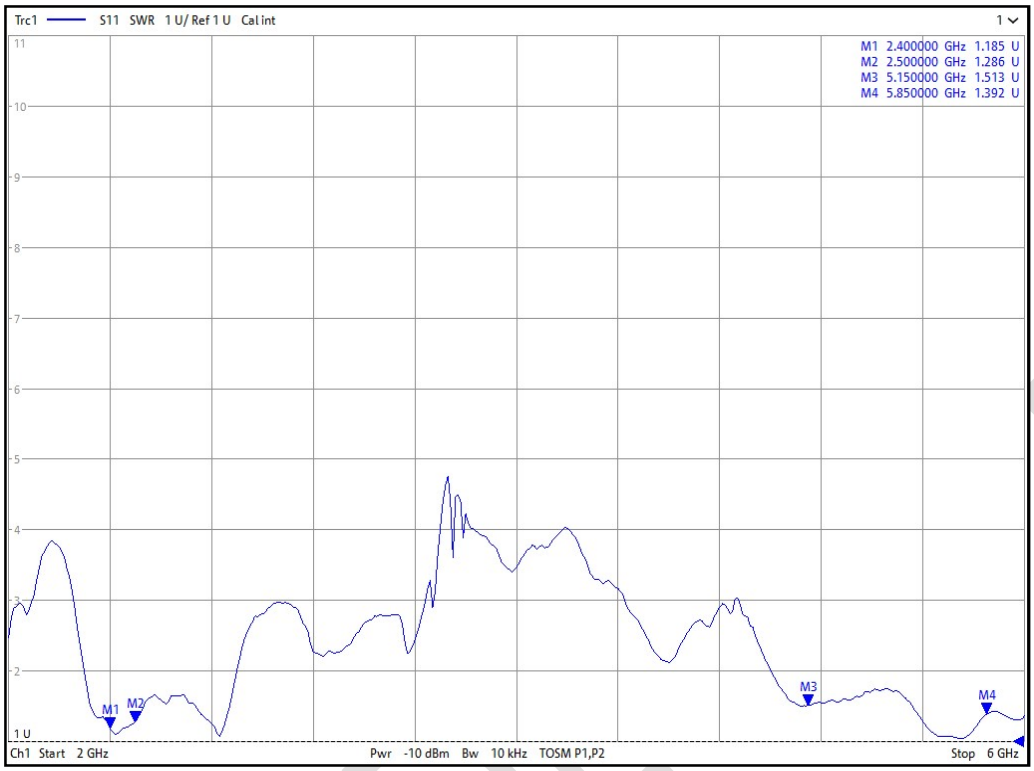
The testing of antenna gain should be made at a ETS qualified lab with an RF anechoic chamber with at least 5-meter separation from the receive antenna to the antenna under test. The antenna gain report from unqualified lab can't be referenced a passing. Besides, all test equipment including horn antennas, adapters, cables, network analyzers, and receivers shall be calibrated per manufacturer's minimum calibration requirements.



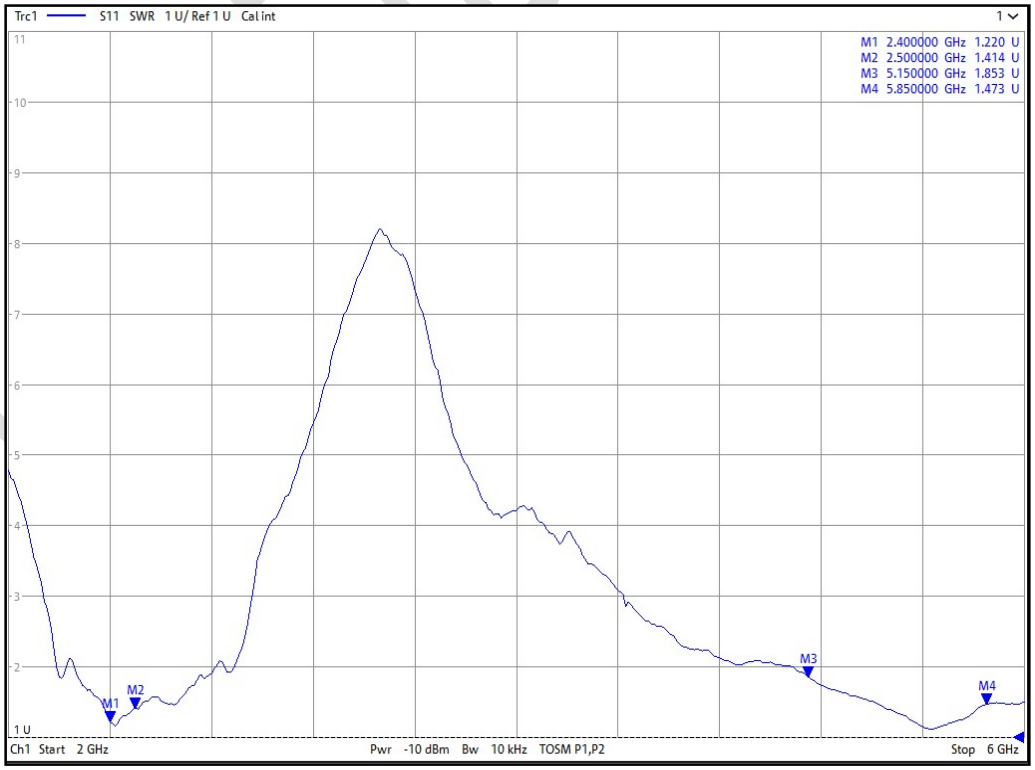
Device	Type/Module	Serial#	Manufacturer	Cal. Date	Cal. Due Date
Anechoic Chamber	AMS-8500	1047	ETS-Lindgren	2025/2/21	2025/8/21
Turn Table	ETS	-	ETS-Lindgren	N/A	N/A
Rotate controller	2090	SN 00035073	ETS-Lindgren	N/A	N/A
Horn Antenna	HAD-0710	111025-02	Bwant	2025/3/16	2027/3/16
Vector Network Analyzer	E5071C	MY46733781	Keysight	2025/1/21	2028/1/21
Cable 40cm 18GHz	201EH012010400	201EH012010400#1	Jmtt	2025/3/16	2026/3/16
Cable 6m 18GHz	201EH012016000	201EH012016000#3	Jmtt	2025/3/16	2026/3/16
Cable 6m 18GHz	201EH012016000	201EH012016000#5	Jmtt	2025/3/16	2026/3/16
Cable 3.5m 18GHz	201EH012013500	201EH012013500#3	Jmtt	2025/3/16	2026/3/16
Cable 1.5m 18GHz	201EH012011500	201EH012011500#2	Jmtt	2025/3/16	2026/3/16

2. PASSIVE PERFORMANCE TEST

2.1 VSWR MEASUREMENT

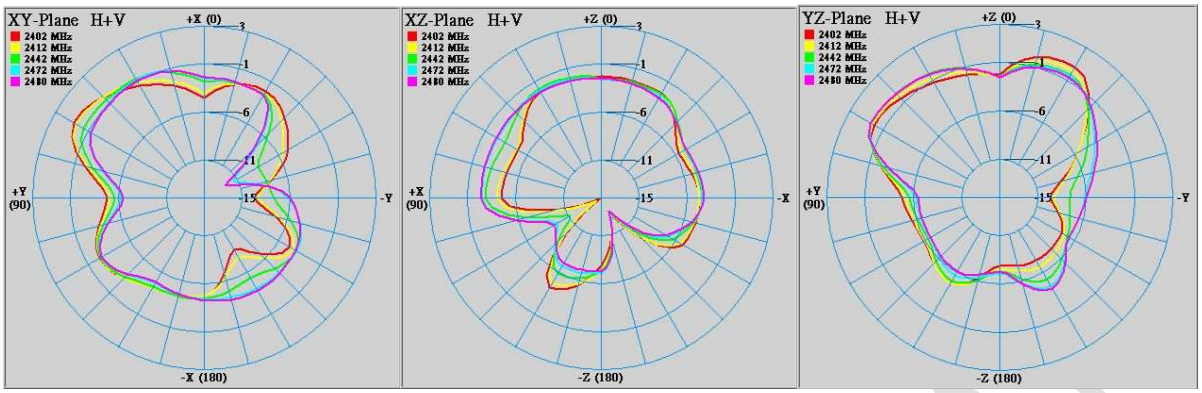


WIFI 1_2402MHz~2480MHz, 4910MHz~5850MHz

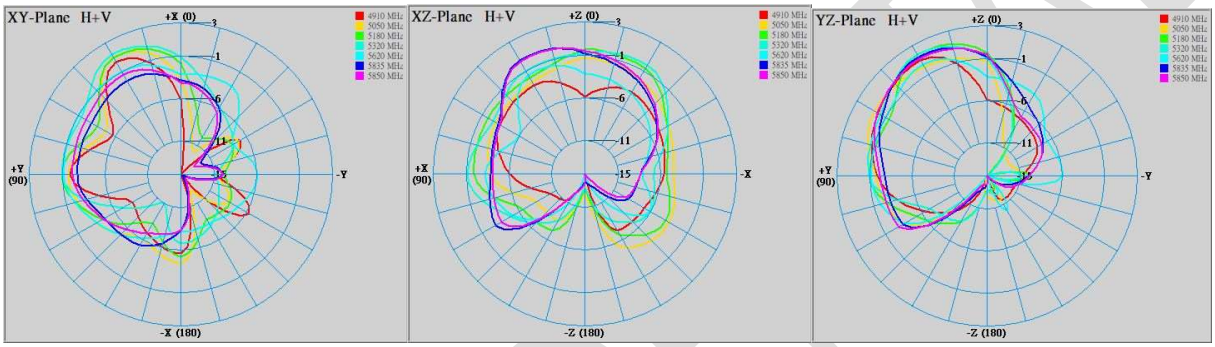


WIFI 2_2402MHz~2480MHz, 4910MHz~5850MH

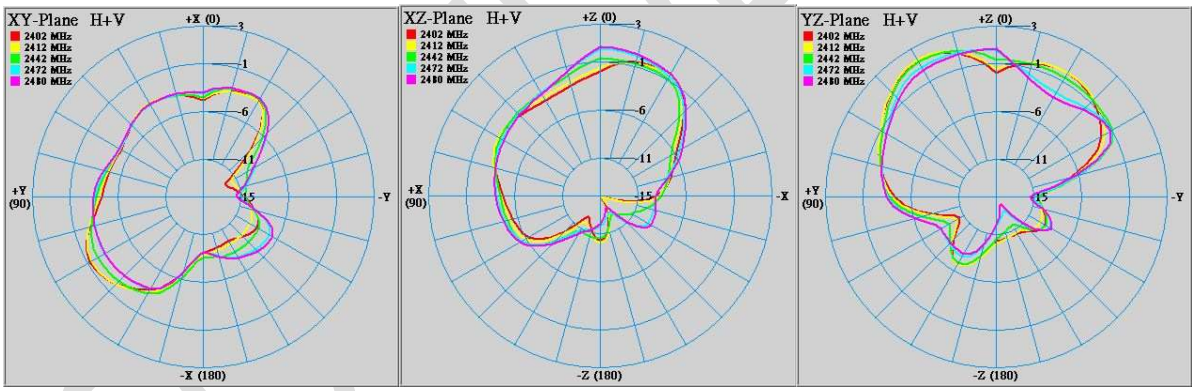
2.2 RADIATION PATTERN



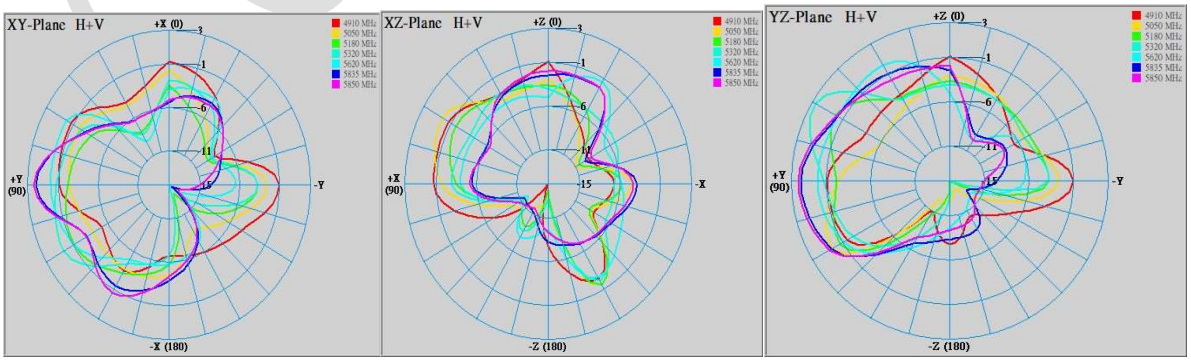
WIFI 1_2402MHz~2480MHz



WIFI 1_4910MHz~5850MHz



WIFI 2_2402MHz~2480MHz



WIFI 2_4910MHz~5850MHz

2.3 AVERAGE EFFICIENCY PEAK GAIN

WIFI 1

Frequency (MHz)	Average efficiency (%)	Average Gain (dBi)	Peak Gain (dBi)
2.4G	**47.07**	**-3.27**	**2.29**
5G	**47.62**	**-3.22**	**2.51**

WIFI 2

Frequency (MHz)	Average efficiency (%)	Average Gain (dBi)	Peak Gain (dBi)
2.4G	**46.15**	**-3.36**	**2.20**
5G	**48.15**	**-3.17**	**2.39**

2.4 3D GAIN OF FREE SPACE(AVERAGE)

WIFI 1

Frequency (MHz)	AUGi Vision WIFI 1		
	Frequency (MHz)	Gain (dBi)	Efficiency %
2.4G	2402	-3.20	47.86
	2412	-3.34	46.39
	2442	-3.22	47.69
	2472	-3.35	46.29
	2480	-3.27	47.14
5G	4910	-3.47	45.03
	5050	-3.22	47.69
	5180	-3.30	46.76
	5320	-3.27	47.14
	5620	-3.04	49.70
	5835	-3.09	49.12
	5850	-3.20	47.91

WIFI 2

Frequency (MHz)	AUGi Vision WIFI2		
	Frequency (MHz)	Gain (dBi)	Efficiency %
2.4G	2402	-3.31	46.72
	2412	-3.34	46.34
	2442	-3.45	45.19
	2472	-3.35	46.25
	2480	-3.35	46.26
5G	4910	-3.01	49.98
	5050	-3.12	48.80
	5180	-3.27	47.14
	5320	-3.28	46.99
	5620	-3.27	47.05
	5835	-3.18	48.08
	5850	-3.10	48.98