ANTENNA TEST REPORT

Product :	**WIFI EMBEDDED ANTENNA**
Brand:	**Brito**
Model:	**WFIEM138-I530LQ**
Model Difference:	**N/A**
Applicant:	**Magic Control Technology Corporation**
Address:	**10F., No.123, Zhongcheng Rd., Tucheng Dist., New Taipei City 236, Taiwan R.O.C.**

Test Performed by:

International Standards Laboratory Corp. LT Lab.
TEL: +886-3-263-8888 FAX: +886-3-263-8899
No. 120, Lane 180, Hsin Ho Rd., Lung-Tan Dist., Tao Yuan City 325, Taiwan

Report No.: **ISL-23LR0190ANT**

Issue Date : **2023/12/21**

Test personnel: Weijun Chen

Test results given in this report apply only to the specific sample(s) tested and are traceable to national or international standard through calibration of the equipment and evaluating measurement uncertainty herein.

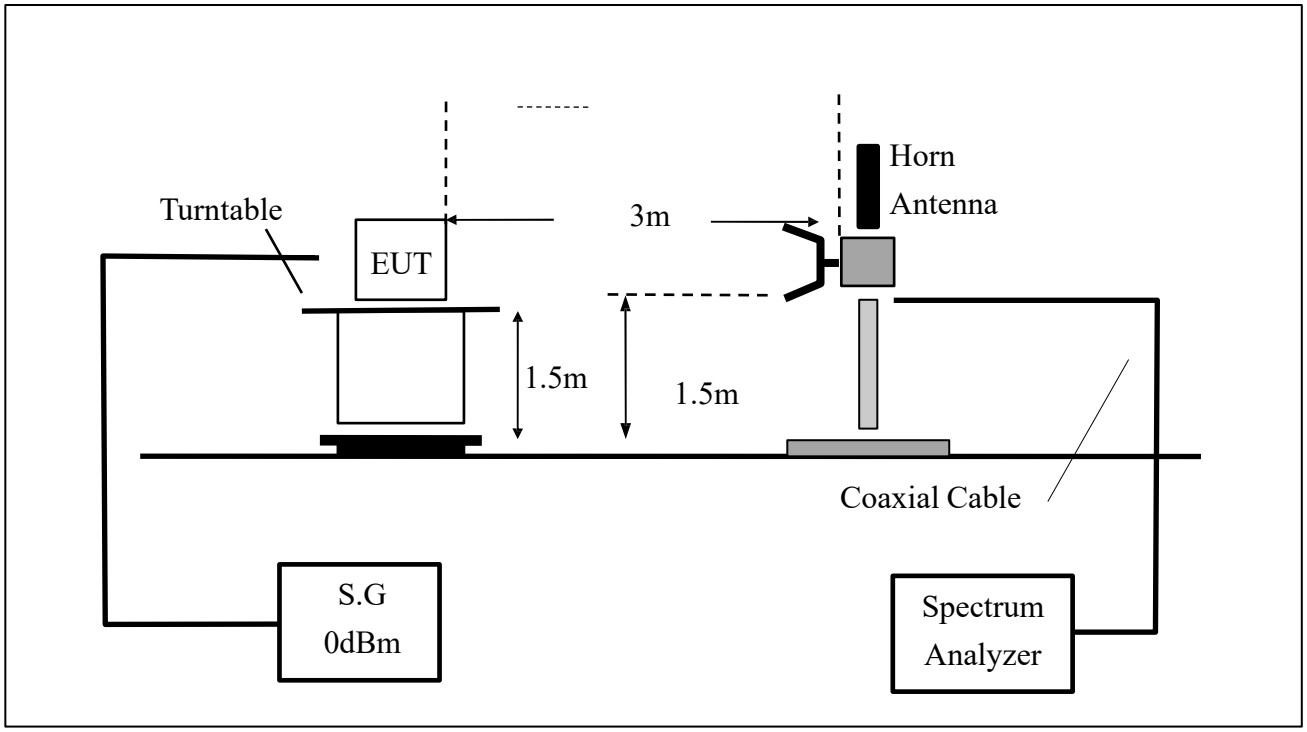
Version

Version No.	Date	Description
00	2023/12/21	Initial creation of document

TABLE OF CONTENTS

1. Test SET-UP (Block Diagram of Configuration)

This test report is prepared for host antenna testing under a Full Anechoic Chamber.
Radiated Setup 0.6GHz – 6GHz



Measurement Equipment Used:					
EQUIPMENT TYPE	**MFR**	**MODEL NUMBER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
Spectrum Analyzer	R&S	FSV3044	101463	02/07/2023	02/07/2024
Horn antenna	EM	EM-AH-10180	2011071401	11/27/2023	11/27/2024
Signal Generator	R&S	SMB100A	183701	09/14/2023	09/14/2024
Test Software	Audix	E3 Ver:6.120203a	N/A	N/A	N/A

2. Test Result

Setup Description:

Step 1:Fix the DUT on the pole in the center of the anechoic chamber.

Step 2:The whole antenna unit is connected with the coaxial line at the transmitter end of the Anechoic chamber.
Step 3:Close the anechoic chamber door to avoid the external signal interference.

Step 4:Open the antenna measurement system and can select frequency or angle to test, and Import the need frequency point to test.
Step 5:After testing, the test system can carry on far-field data conversion.

Ambient temperature: 23℃ Relative humidity: 58% Test Date: 2023/12/21

2.4G Antenna

Maximum gain test result:	
Maximum antenna Gain	= 2.19 dBi

Antenna Gain	**2400**	**2450**	**2500**	**Unit**
	-1.26	1.36	2.19	dBi

Figure 1: 2400MHz Vertical

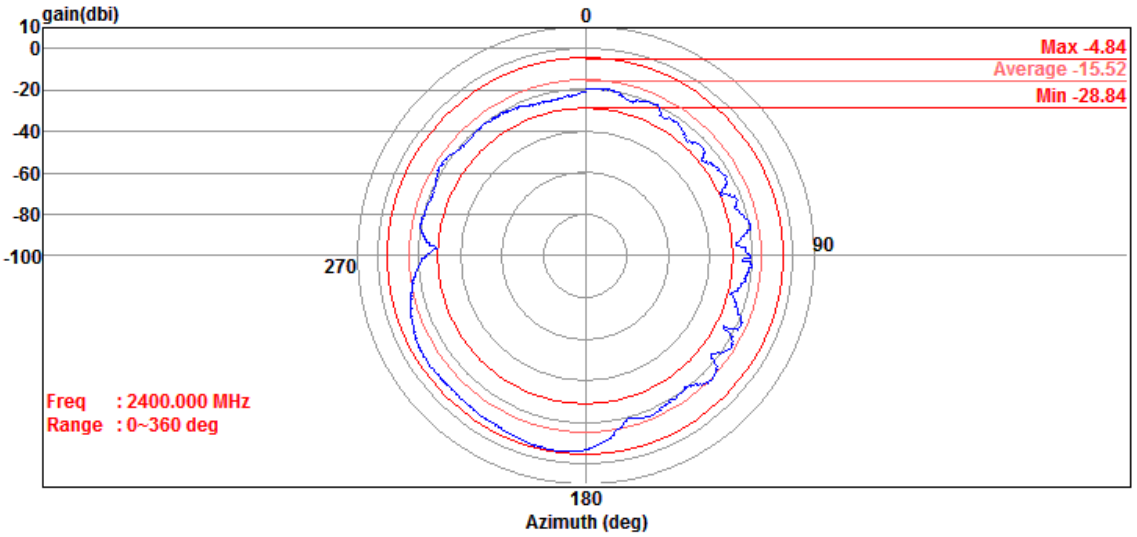


Figure 2: 2400MHz Horizontal

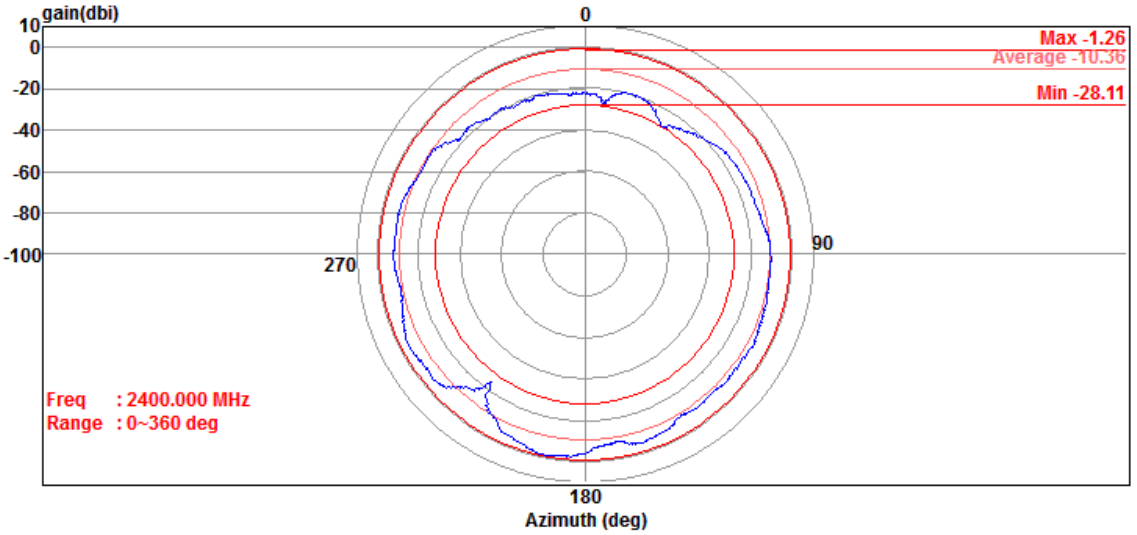


Figure 3: 2450MHz Vertical

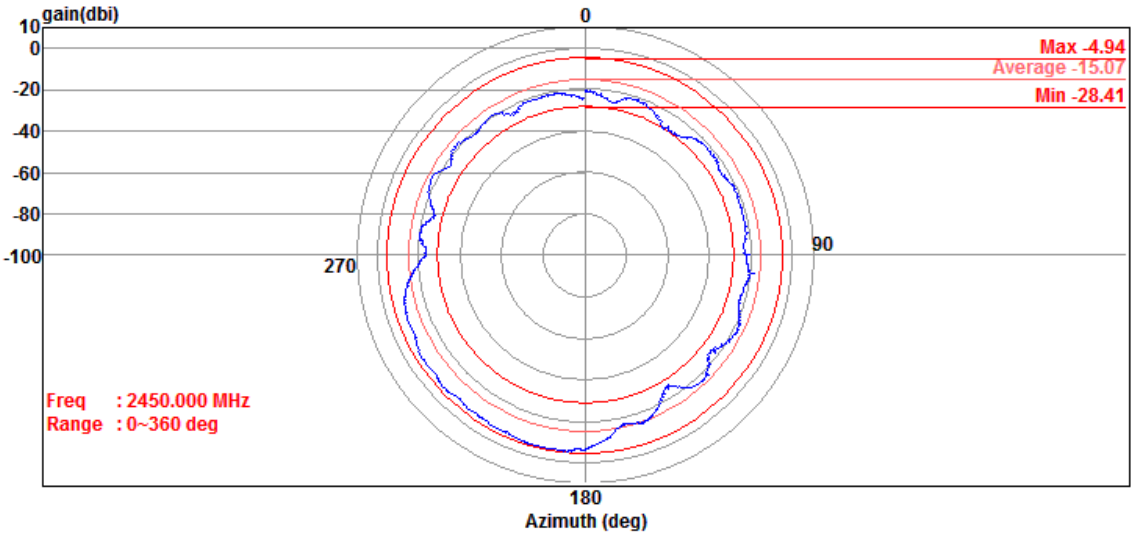


Figure 4: 2450MHz Horizontal

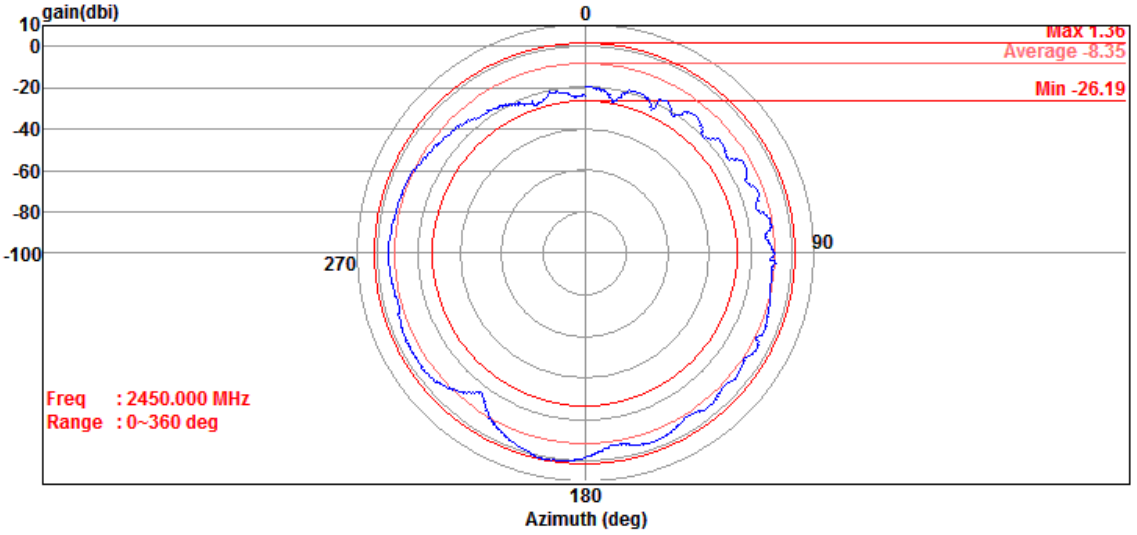


Figure 5: 2500MHz Vertical

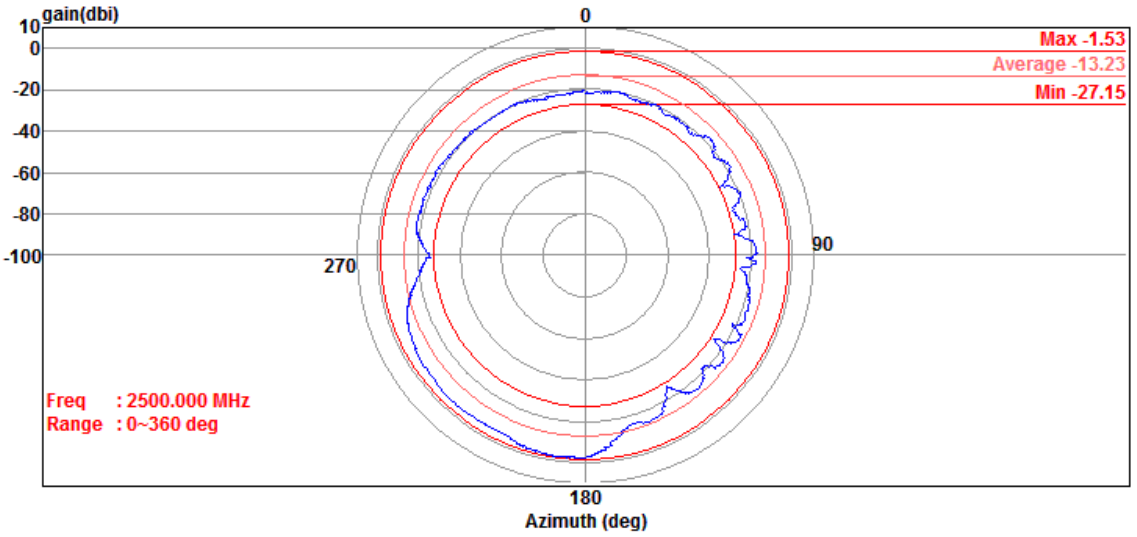


Figure 6: 2500MHz Horizontal