

Antenna Test Report

Report No. : SSP24040070-2A

Manufacturer : Dongguan Couso Technology Co.,Ltd.

Product Name : 2.4GHz Antenna

Model Name : W2

Test Standard : IEEE 149-1979

Tested Date : 2024-04-17

Issued Date : 2024-04-18

Tested By : William Liu William Liu(Engineer)

Approved By : Lahm Peng Lahm Peng (Manager)



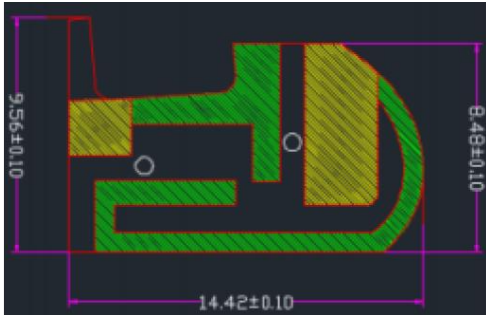
Shenzhen CCUT Quality Technology Co., Ltd.

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This test report is limited to the above client company and the product model only. It may not be duplicated
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1. General Information

1.1 Product Information

Manufacturer:	Dongguan Couso Technology Co.,Ltd.
Address of Manufacturer:	No.26 Minye Road, Tangxia town, Dongguang City, Guangdong Province, China
Product Name:	2.4GHz Antenna
Model Name:	W2
Frequency Range:	2402MHz - 2480MHz
Type of Antenna:	FPCB Antenna
Antenna Gain:	0dBi (Max.)
Impedance:	50 ohm
Antenna View:	<p>Length * Width (mm)</p>  <p>The diagram shows a green conductive antenna pattern on a dark substrate. The pattern consists of a central horizontal bar with a semi-circular end on the right, and a vertical bar on the left. There are two small circular vias. Dimension lines indicate the following values: 9.56±0.10 mm for the left vertical section, 14.42±0.10 mm for the total width, and 8.48±0.10 mm for the right semi-circular section.</p>

1.2 Test Facilities

Laboratory Name:	Shenzhen CCUT Quality Technology Co., Ltd. 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China
All measurement facilities used to collect the measurement data are located at 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China.	

1.3 List of Measurement Instruments

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Horn Antenna	SCHWARZBECK	BBHA 9120D	02553	2023-08-05	2024-08-04
Spectrum Analyzer	KEYSIGHT	N9020A	MY48030972	2023-07-31	2024-07-30
Amplifier	Agilent	8449B	3008A01520	2023-07-31	2024-07-30

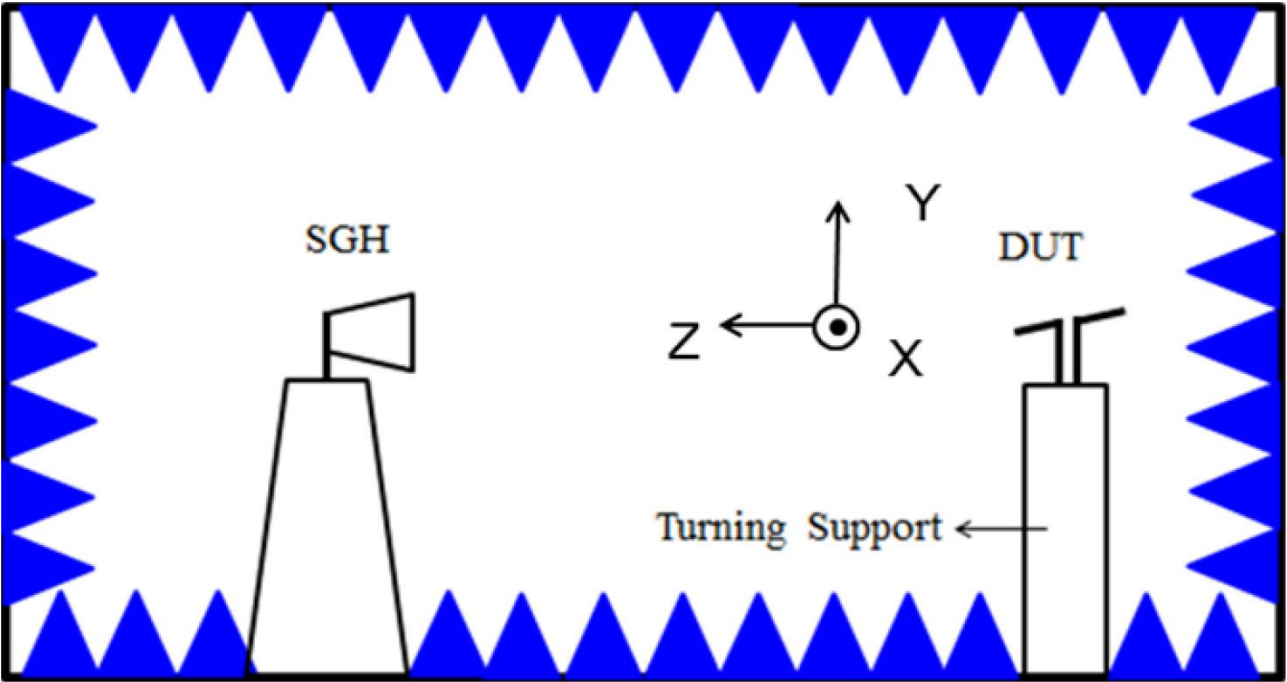
1.4 Measurement Uncertainty

Parameter	Conditions	Uncertainty
Radiated Emissions	1Hz ~ 6GHz	±3.38 dB

1.5 Test Methodology

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

1.6 Test Setup

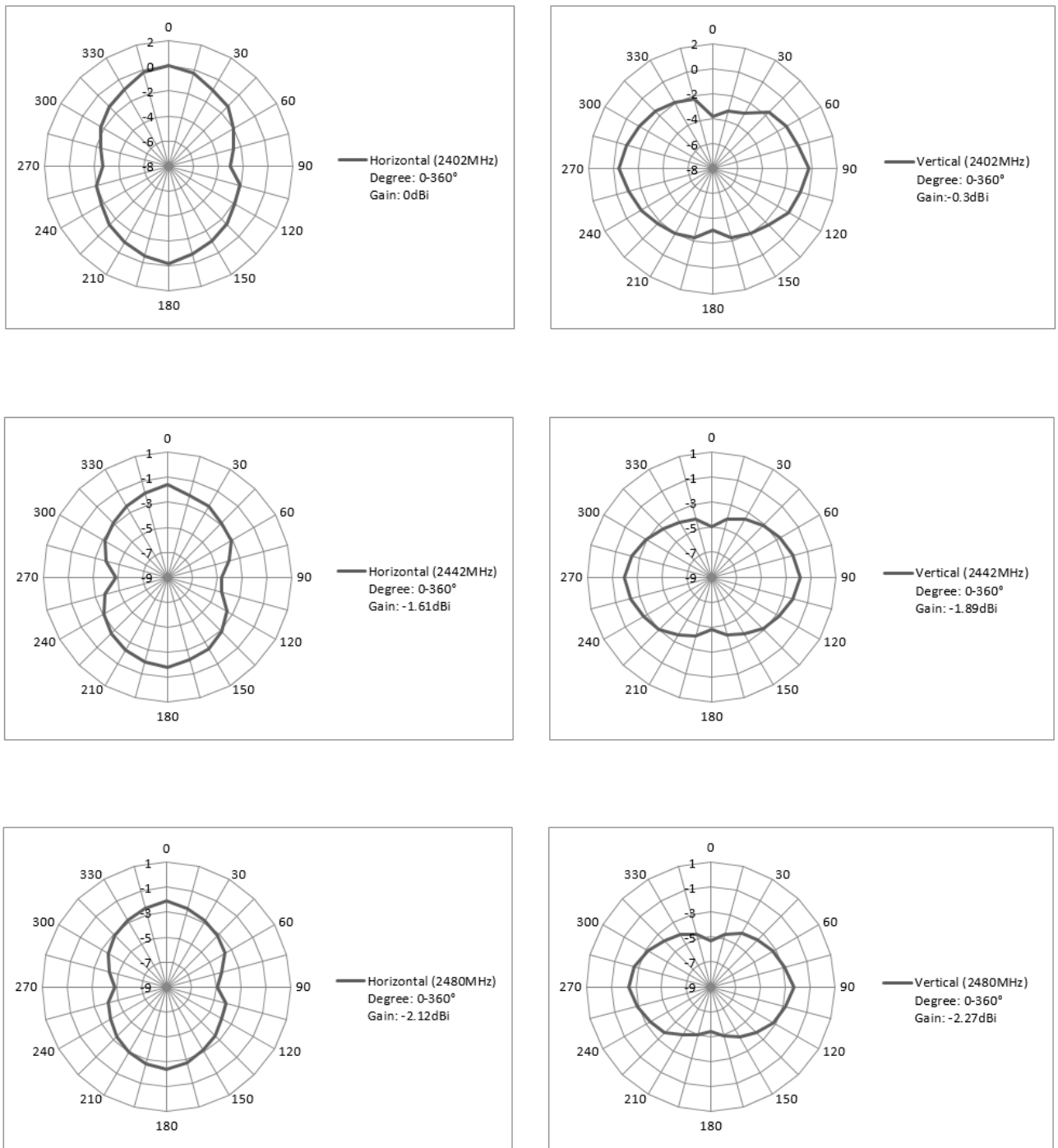


2. OTA Test

2.1 Gain

Frequency	Peak Gain (dBi)	Polarity
2402MHz	0	Horizontal
2402MHz	-0.3	Vertical
2442MHz	-1.61	Horizontal
2442MHz	-1.89	Vertical
2480MHz	-2.12	Horizontal
2480MHz	-2.27	Vertical

2.2 Radiation Pattern View



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