

OTA TEST REPORT

Applicant Trackonomy
Product Multifunctional IoT Platform Sensor Device
Model RWB-3001
Report No. EFTA26080071-IE-09-T1
Issue Date August 21, 2026

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **ANSI/IEEE Std 149-2021**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.



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1. Test Laboratory

1.1. Notes of the Test Report

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1.2. Testing Location

Company: Eurofins TA Technology (Shanghai) Co., Ltd.
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1.3. Laboratory Environment

Temperature	24°C	
Relative humidity	54%	
Shield effect	0.7-6GHz	> 100dB
Ground resistance	<4Ω	

2. General Description of Equipment Under Test

2.1. Applicant and Manufacturer Information

Applicant Name	Trackonomy
Applicant address	214 Devcon Drive,
Manufacturer Name	Trackonomy
Manufacturer address	214 Devcon Drive,

2.2. General Information

EUT Description	
Product Name:	Multifunctional IoT Platform Sensor Device
Model	RWB-3001
HW Version:	V1
SW Version:	V1
Antenna Type:	Internal Antenna
Antenna Manufacturer:	Trackonomy
Test Frequency:	2402MHz ~ 2483.5MHz
Note: The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant. All indications of Pass/Fail in this report are opinions expressed by Eurofins TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.	

2.3. Test Date

The test is performed on August 12, 2026.

2.4. Received Date

The sample was received on August 10, 2025.

2.5. Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test Method: **ANSI/IEEE Std 149-2021**

3. Test Conditions

3.1. Test Configuration

Great-Circle-Cut method is used to measure the antenna 3D GAIN of EUT in OTA qualified anechoic chamber. Equipment Under Test (EUT) geometry centre vertical projection at the centre of platform, the distance from EUT to measurement antenna is 5m.

3.2. Test Measurement

Spherical coordinate system

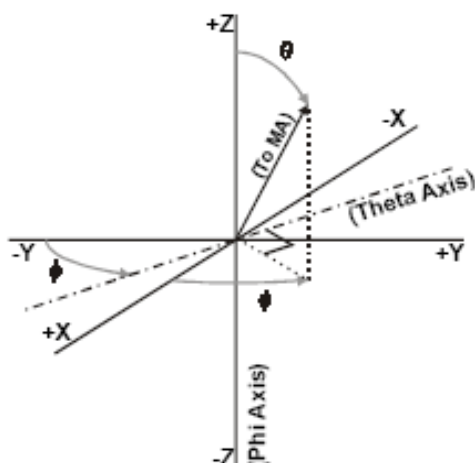
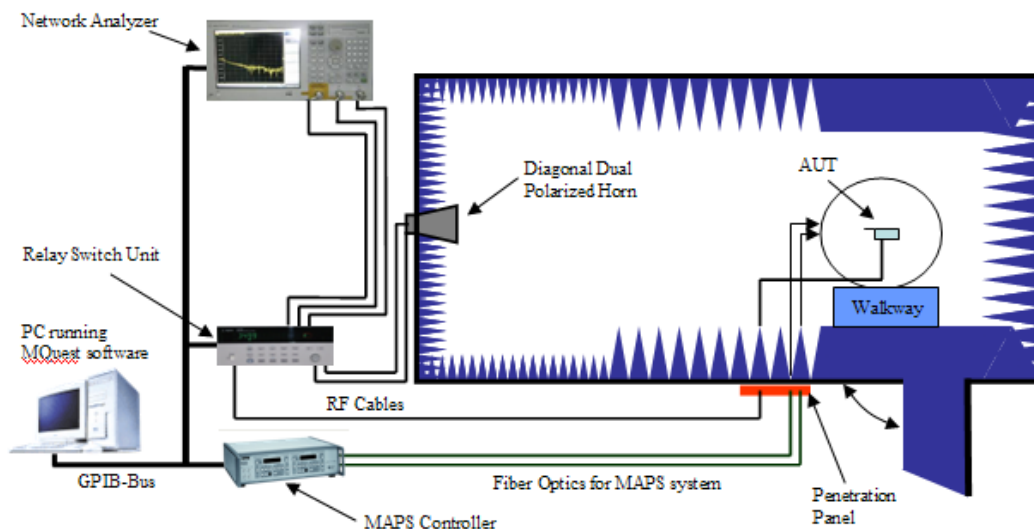


Figure 1 Test coordinate system

Note: Theta is from 0~180 degree. Phi is from 0~360. Rotate the EUT and record the Data, the step of rotation is 15 degree.

Test Setup

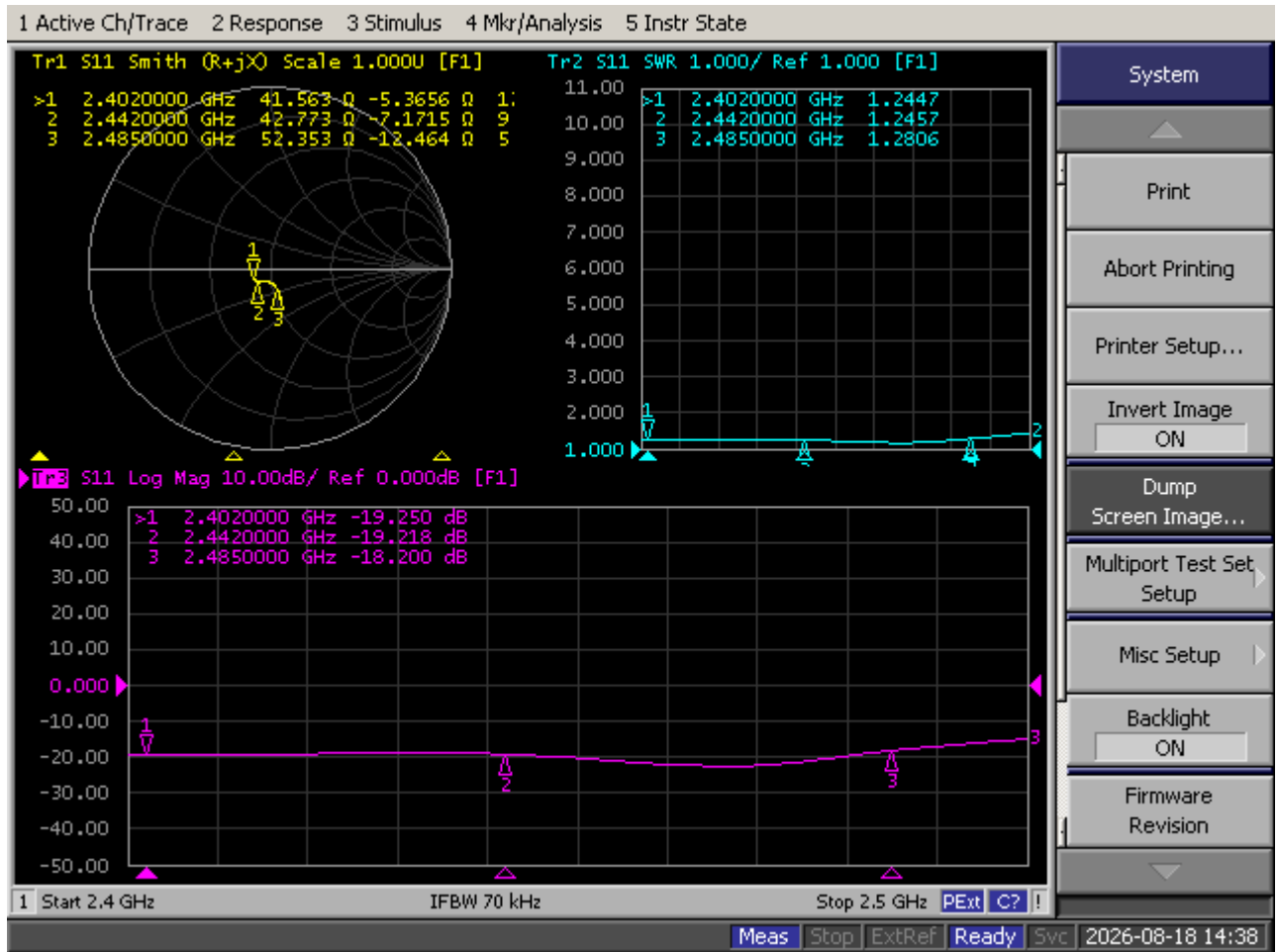


4. Test Results

4.1. Gain and Efficiency

Test Item	Test State	Frequency (MHz)	Efficiency(%)	Gain(dBi)	Note
Gain	FS	2402	29.72	-1.06	/
		2407	30.71	-0.32	
		2412	30.71	-0.90	
		2417	33.57	-0.77	
		2422	36.69	-0.56	
		2427	37.62	-0.54	
		2432	38.49	-0.19	
		2437	37.76	-0.06	
		2442	38.03	-0.06	
		2447	36.90	-0.26	
		2452	35.24	-0.45	
		2457	34.41	-0.48	
		2462	33.81	-0.37	
		2467	33.74	-0.20	
		2472	33.23	-0.75	
		2477	32.94	-0.54	
		2482	31.59	-0.45	
		2485	31.77	-0.54	

4.2. S11

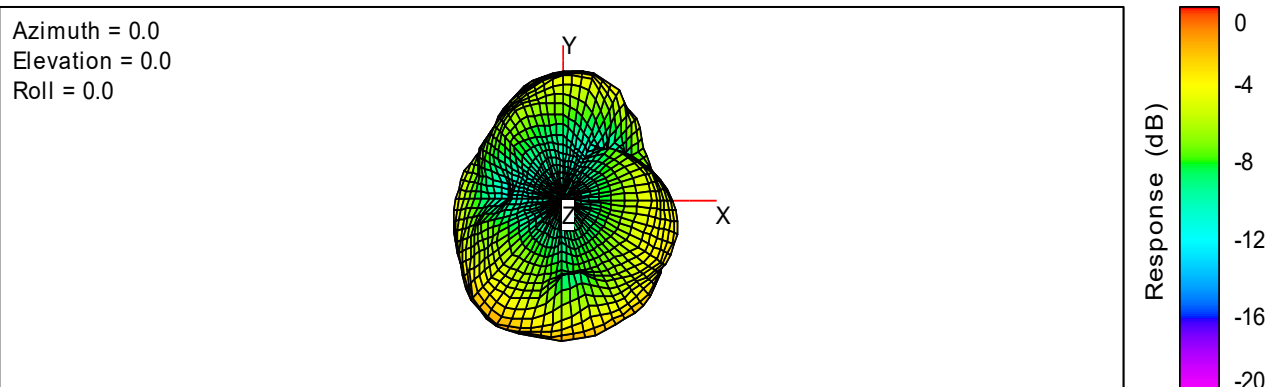


5. Equipment List

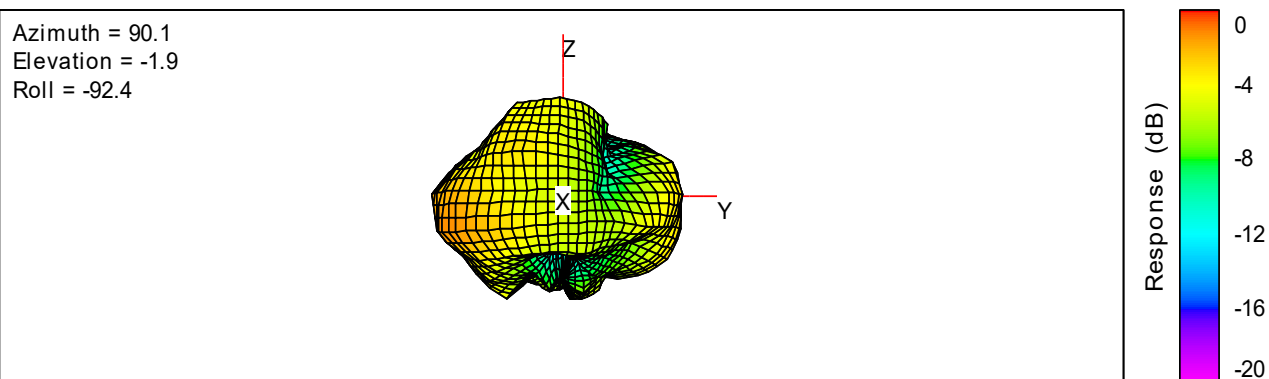
• Type of Equipment	Manufacturer	Model	SN	Version	Calibration Date	Expiration Time
Anechoic Chamber	ETS	AMS-8500	CT-001157-1219	/	2025-05-07	2030-05-06
Test Software	ETS	EMQuest™	1464	REV 1.17	/	/
EMCenter_Switch Control System	ETS	7006/7001	00059957/MY42001152	/	/	/
Diagonal Dual Polarized Horn	ETS	ETS 3164-04	00062743	/	2024-03-09	2029-03-08
Network Analyzer	Keysight	E5071B	MY42404014	REV.A.0 6.50	2025-11-24	2026-11-23

ANNEX A: 3-D Pattern Plots

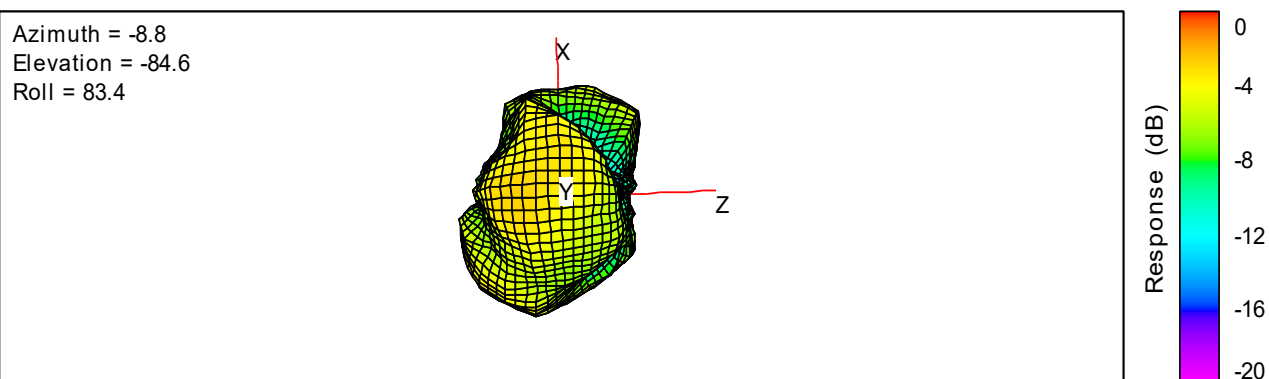
Total



Total



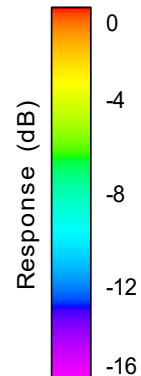
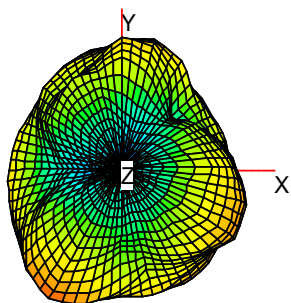
Total



2402MHz 3D Gain

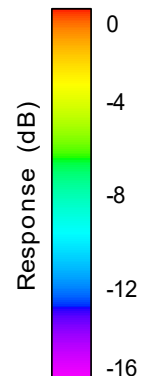
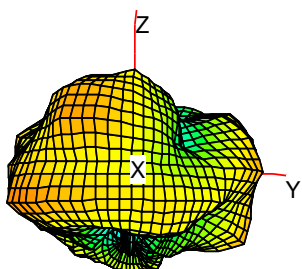
Total

Azimuth = 0.2
Elevation = 2.0
Roll = 0.2



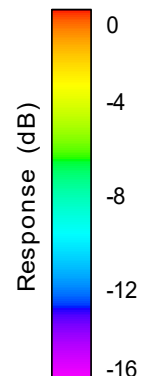
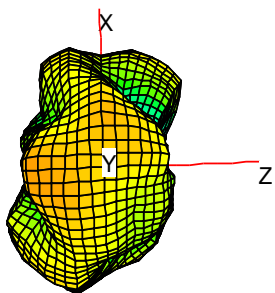
Total

Azimuth = 91.4
Elevation = -0.3
Roll = -94.0



Total

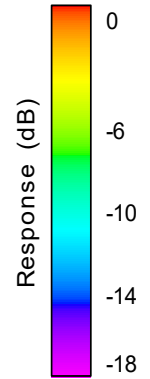
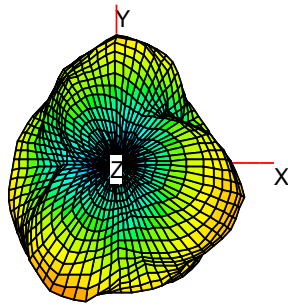
Azimuth = -8.8
Elevation = -84.6
Roll = 83.4



2442MHz 3D Gain

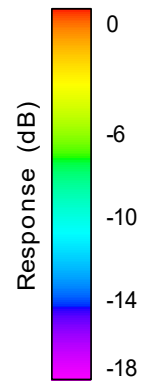
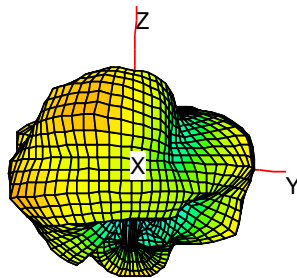
Total

Azimuth = -1.0
Elevation = 2.9
Roll = -2.1



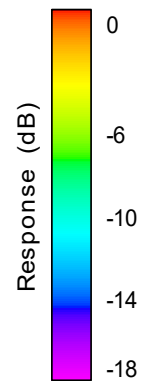
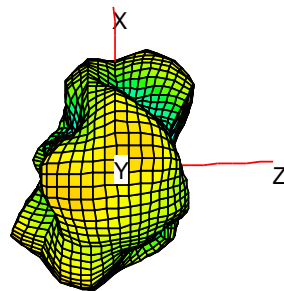
Total

Azimuth = 91.4
Elevation = -0.3
Roll = -94.0



Total

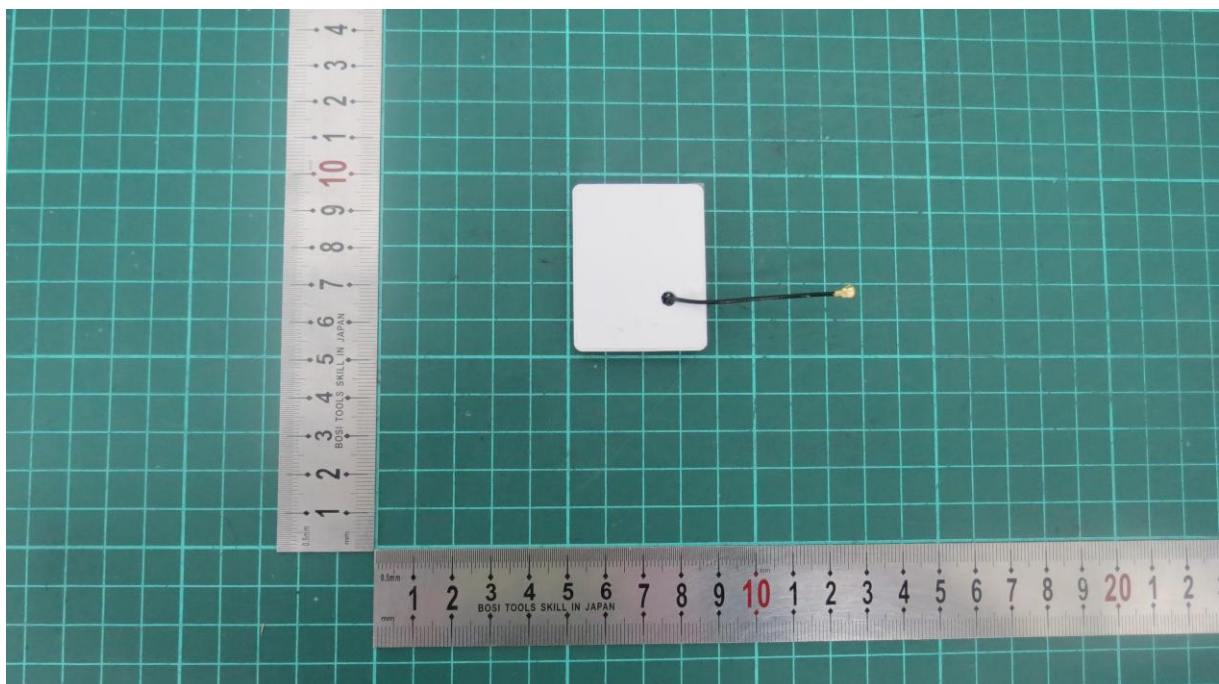
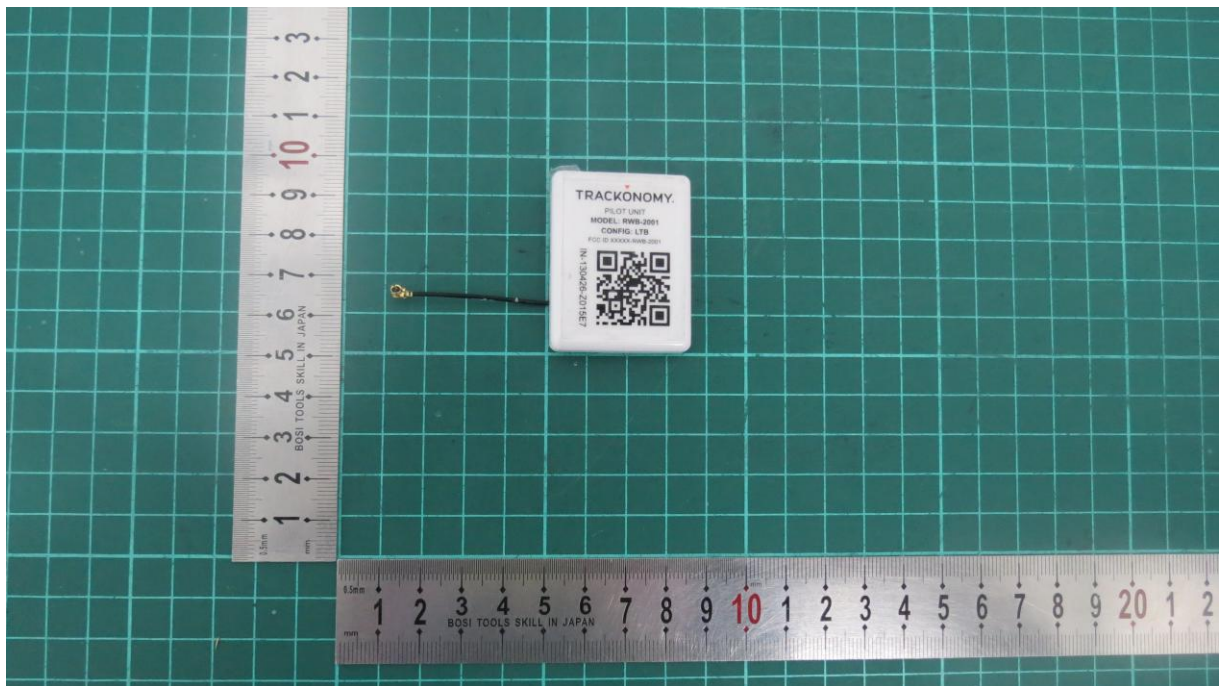
Azimuth = -18.6
Elevation = -86.6
Roll = 73.5



2485MHz 3D Gain

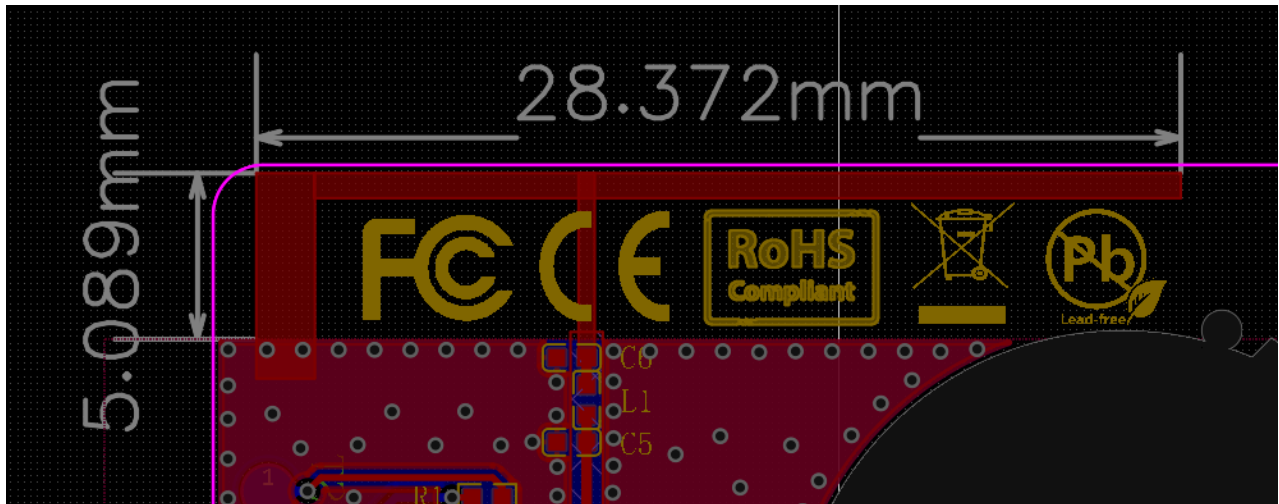
ANNEX B: The EUT Appearance and Test Configuration

B.1 EUT Appearance

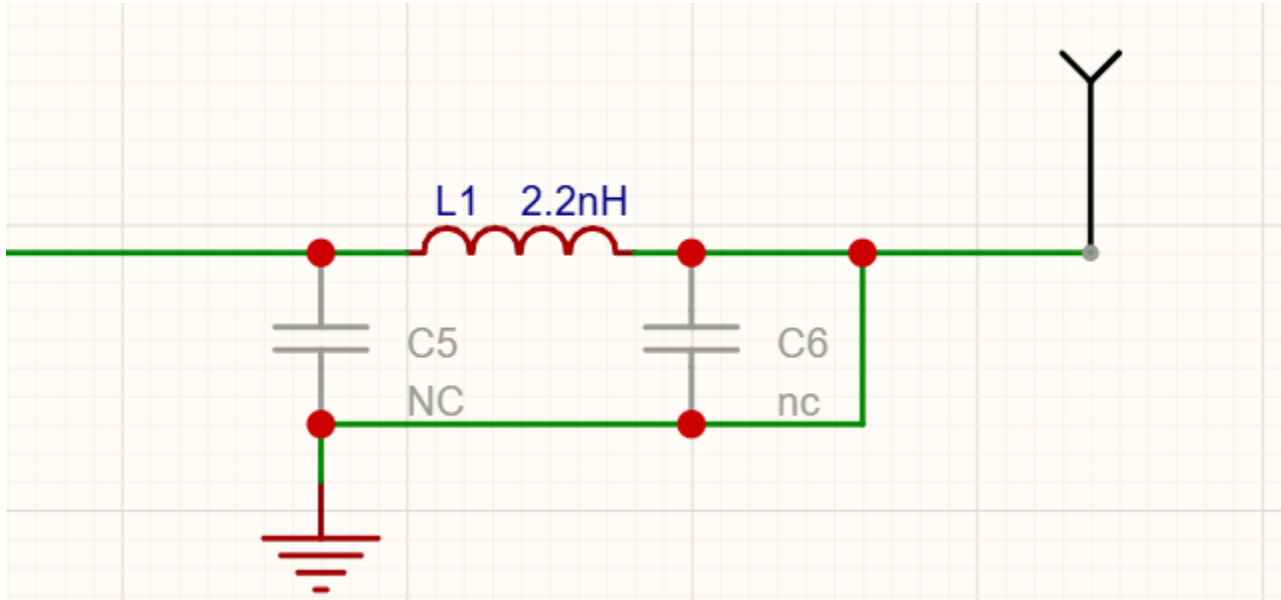


Picture 1 Constituents of EUT

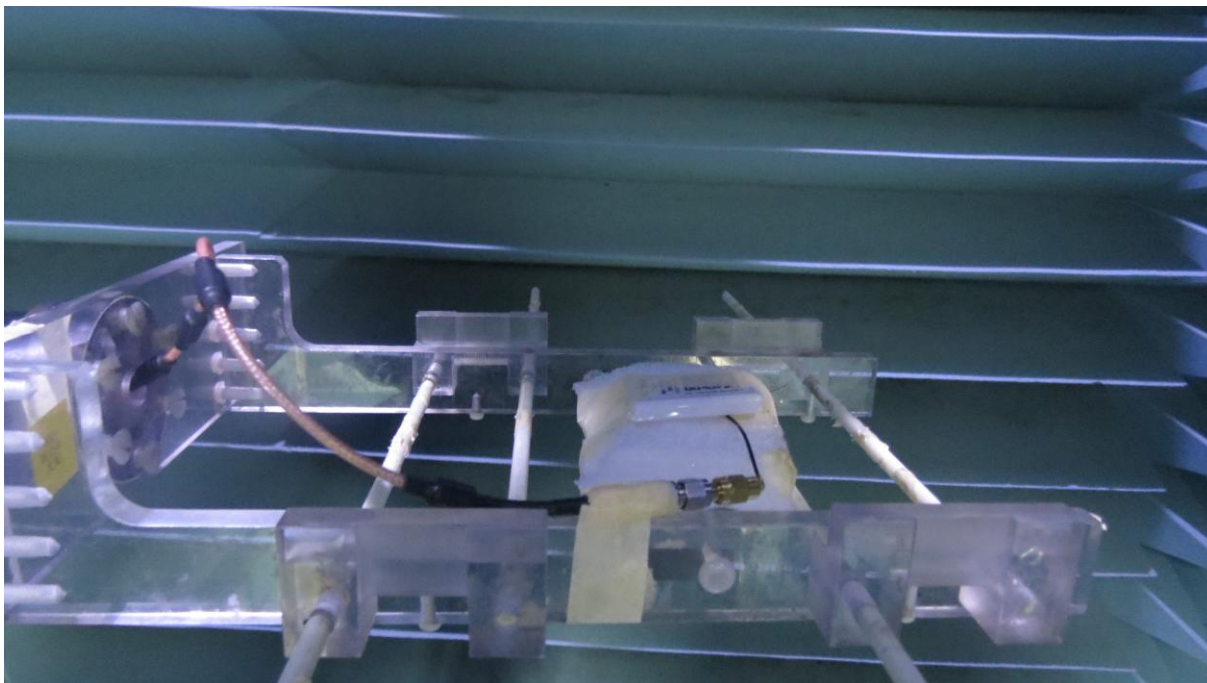
B.2 Antenna Size



B.3 Antenna Matching



B.4 Test Configuration



Picture 2 Test Setup

*****END OF REPORT *****