



# ANTENNA SPECIFICATION

<b>Client:</b>	<b>Lenovo</b>
<b>Project:</b>	<b>L02</b>
<b>Antenna type:</b>	<b>chip antenna</b>
<b>Version:</b>	<b>V1.0</b>
<b>Issued Date:</b>	<b>20240117</b>

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# 1.Revision History

Rev.No	Issued Date	Description	Summary
V1.0	20240117	initial release	

# 2. Introduction

## 2.1 Introduction of Product

This product is SMT Bluetooth antenna on PCB

## 2.2 Specification and Dimension

### DIMENSIONS

Table 2 Machinical Dimension

	DIMENSION
L (mm)	3.05 ± 0.10
W (mm)	1.55 ± 0.10
T (mm)	0.55 ± 0.10
A (mm)	0.40 ± 0.10

### OUTLINES

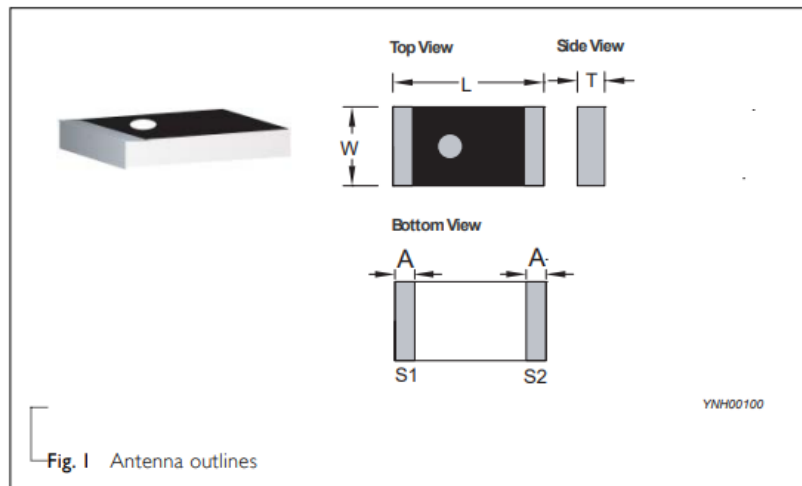


Table 3 Termination configuration

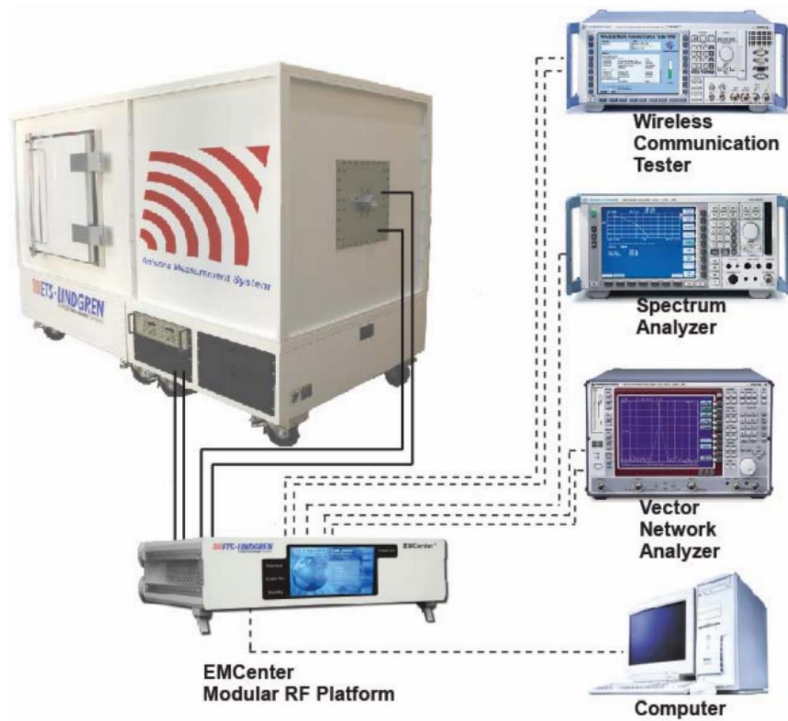
TERMINAL NAME	FUNCTION
S1	Feeding Point
S2	GND

ADD : No. 11, Keyi St., Zhunan Township, Miaoli County 350402 , Taiwan (R.O.C.)

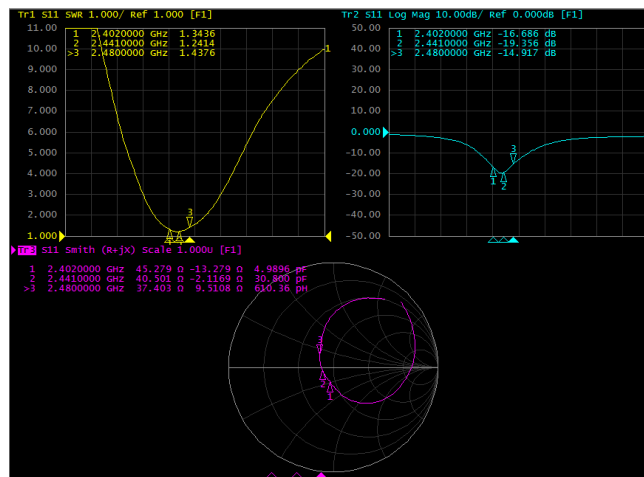
# 3. Electrical Characteristics

## 3.1 Test equipment:

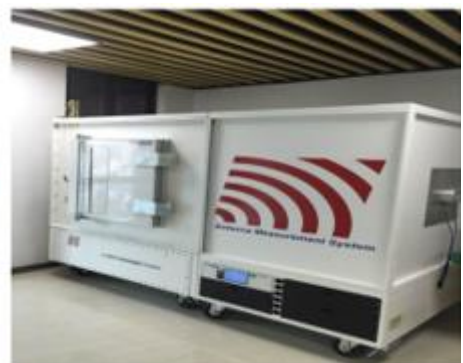
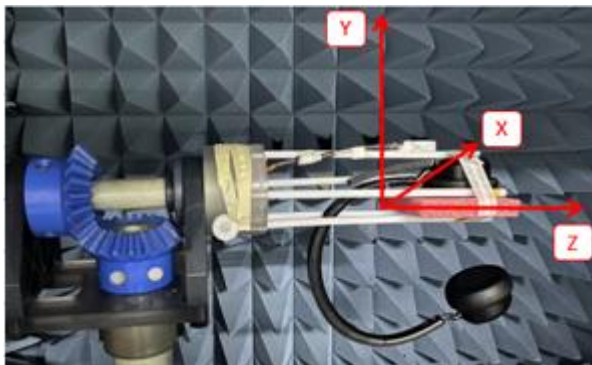
- VECTOR NETWORK ANALYZER
- Agilent E5071c
- Antenna Measurement System
- ETS-Lindgren Antenna Measurement System



### 3.2 Antenna S11 parameters



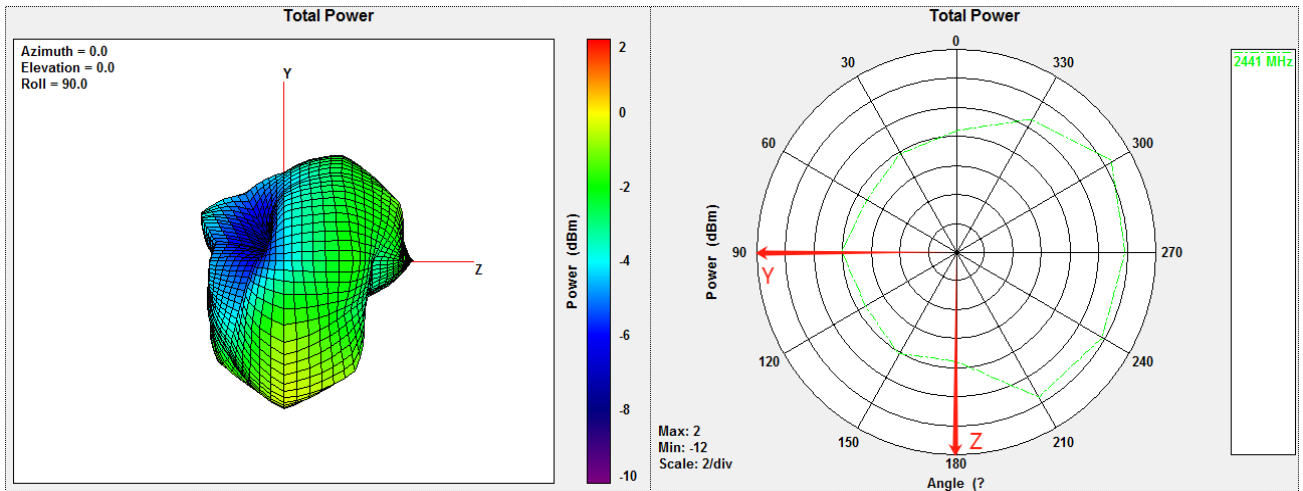
### 3.3 Antenna Test Settings:



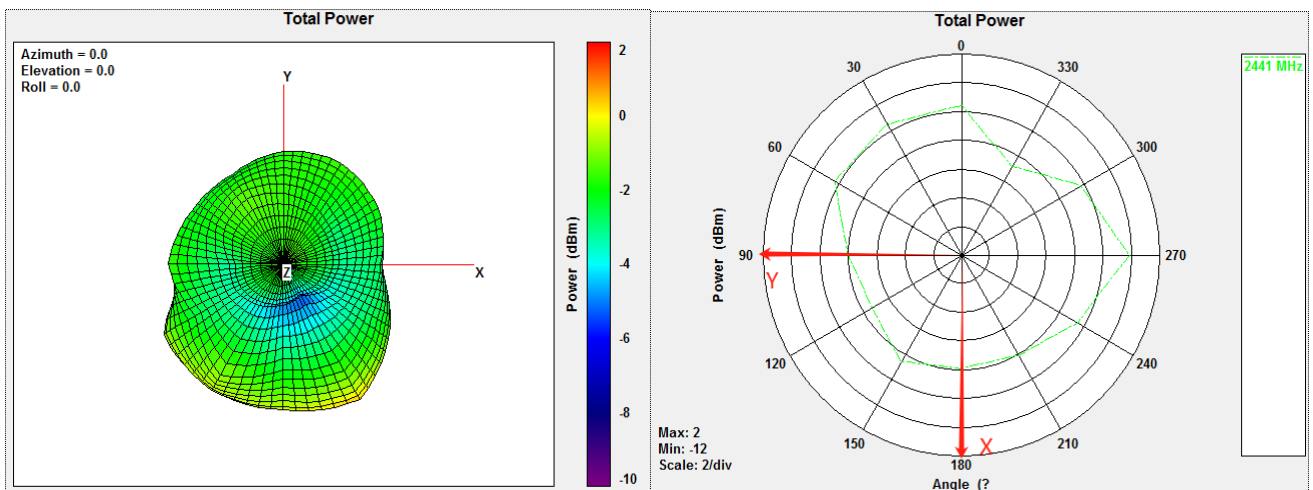
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### 3.4 2/3D Radiation Pattern :

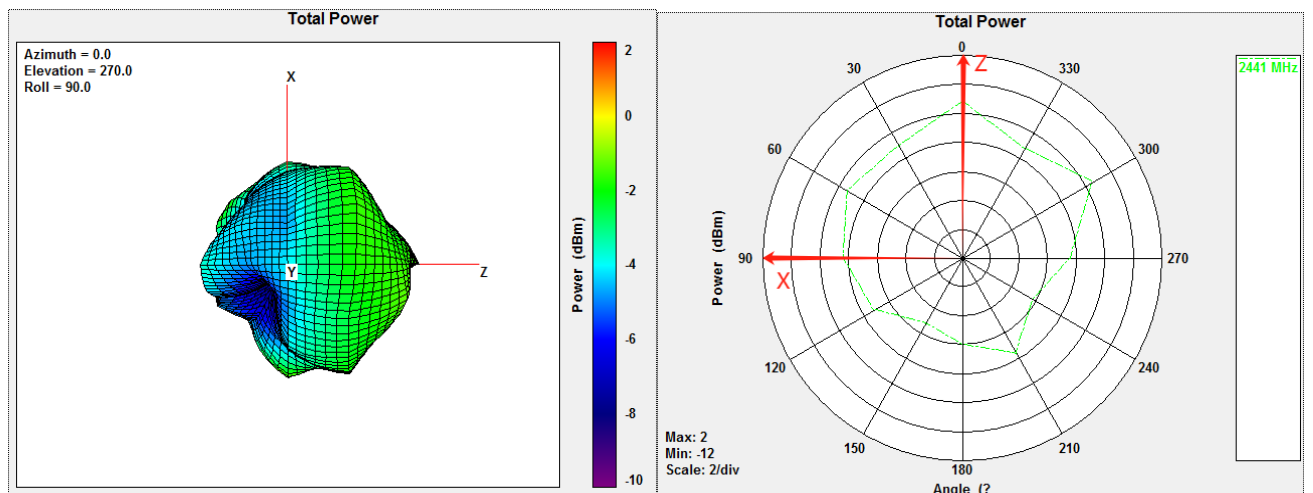
#### 2441MHz YZ



#### 2441MHz YX



#### 2441MHz XZ



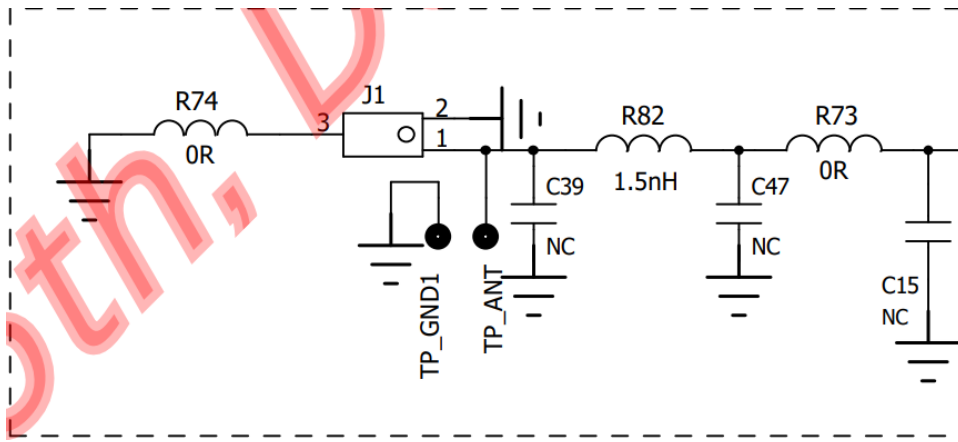
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3.5 Electrical Characteristics:

<b>Antenna Model Name</b>	<b>chip antenna</b>
Working Frequency Range	2450+/-50MHz
Impedance	50Ω
Max Efficiency(%)	50.4%@2480MHz
Max peak Gain(dBi)	0.53dBi@2440MHz

Frequency(MHz)	Efficiency (%)	Peak Gain (dBi)
2402	48.3	-0.37
2441	49.7	0.53
2480	50.4	-0.30

3.6 Matching circuit:



3.7 OTA test data:

Channel	TRP(dBm)	TIS(dBm)
0	6.3	-94.2
39	6.8	-94.3
78	6.9	-93.9