

ANTENNA SPECIFICATION

Project:	RC318
Antenna type:	PCBA antenna
Version:	V1.0
Issued Date:	2025.11.17
Tested by:	Lite.Mo
Check by:	Xun.Li
Manufacturer:	Sunitec Enterprise Co., LTD.
Address:	Building C No.725 , WeiXiangTai Industrial zone,FuCheng street , LongHua district , ShenZhen,GuangDong, China

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1.Revision History

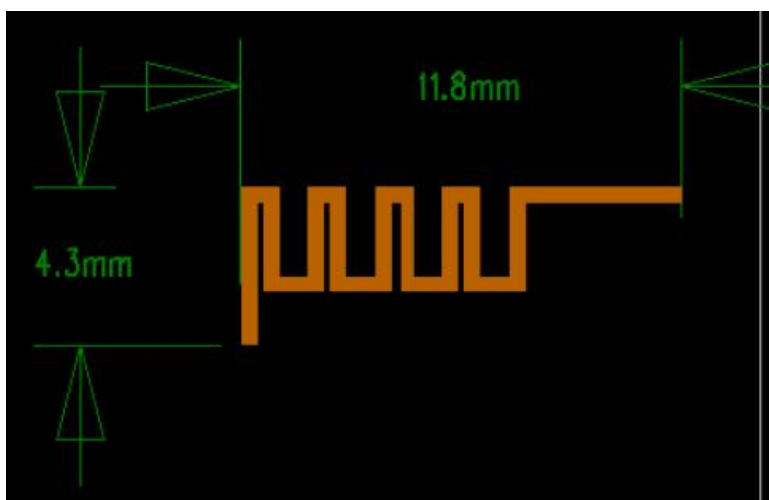
Rev.No	Issued Date	Description	Summary
V1.0	2025.11.17	initial release	

2. Introduction

2.1 Introduction of Product

This product is a Bluetooth antenna printed on a PCB

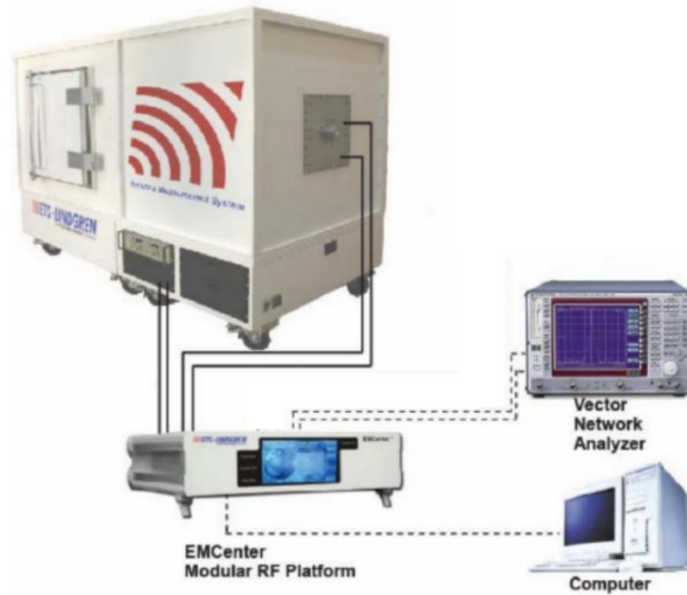
2.2 Specification and Dimension



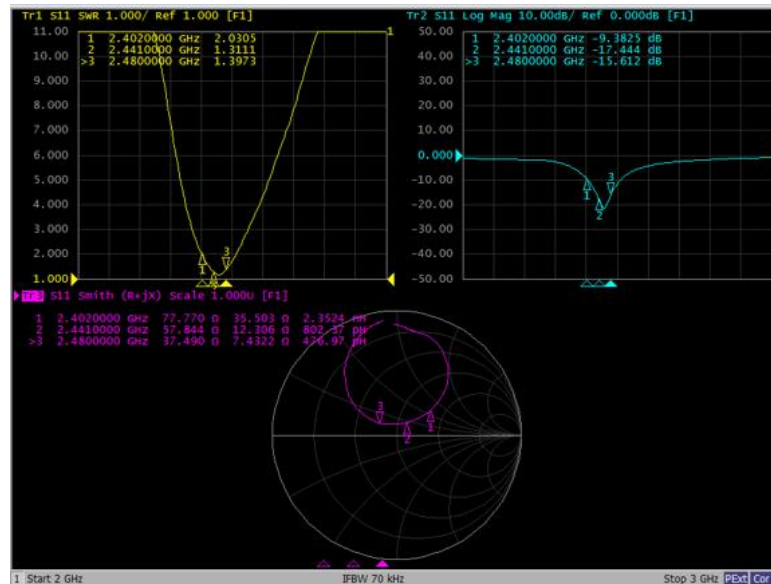
3. Electrical Characteristics

3.1 Test equipment:

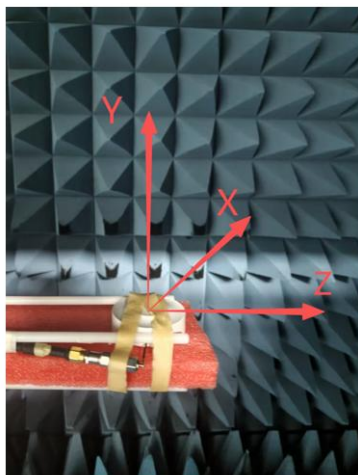
Equipment	Manufacturer	Model No	Last Cal.	Due Date
VECTOR NETWORK ANALYZER	Agilent	E5071C	2025.10.10	2026.10.09
Antenna Measurement System	ETS-Lindgren	AMS-8050	2025.10.10	2026.10.09
	ETS-Lindgren	EMCenter Modular RF Platform	2025.10.10	2026.10.09



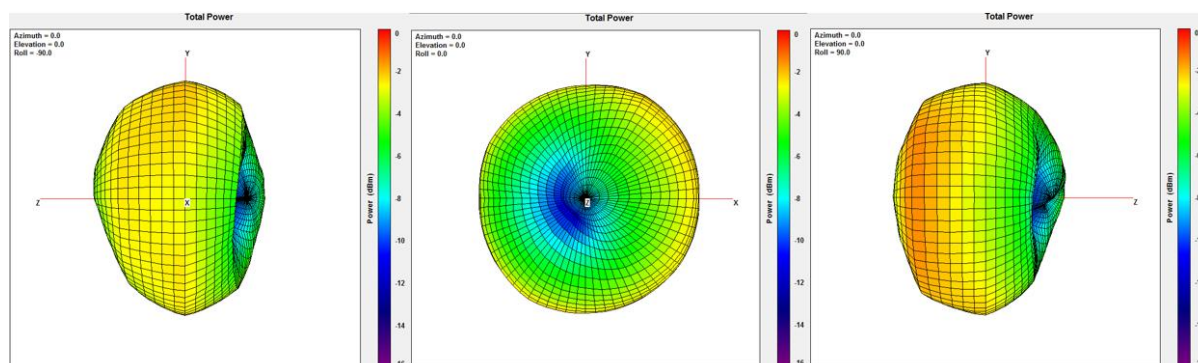
3.2 Antenna S11 parameters



3.3 Antenna Test Settings:



3.4 3D Radiation Pattern :



3.5 Electrical Characteristics:

Antenna Model Name	PCBA antenna
Working Frequency Range	2400~2480MHz
Impedance	50Ω
Max Efficiency(%)	41.27%@2460MHz
Max peak Gain(dBi)	-0.85dBi@2470MHz

Frequency(MHz)	Efficiency (%)	Peak Gain (dBi)
2400	33.12	-1.81
2410	34.93	-1.41
2420	36.55	-1.26
2430	37.91	-1.34
2440	39.43	-1.29
2450	40.49	-1.18
2460	41.27	-0.89
2470	40.98	-0.85
2480	41.05	-0.95