



Antenna Test Report

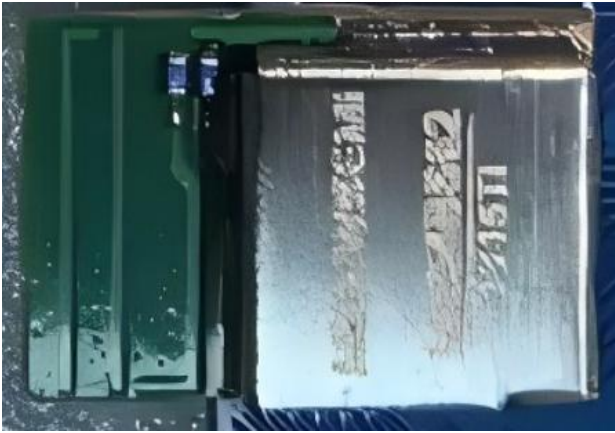
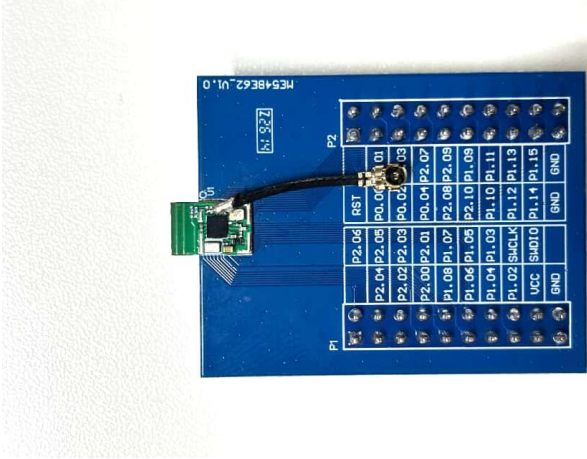
Project No	CS26032B	PCB Version	ME54BS62_V1.0
Tester	Wanli Zhu	Date	2026/5/20
Auditing	Jinbei Li	Date	2026/5/21
Approval	Jinbei Li	Date	2026/5/21

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一、Project Information

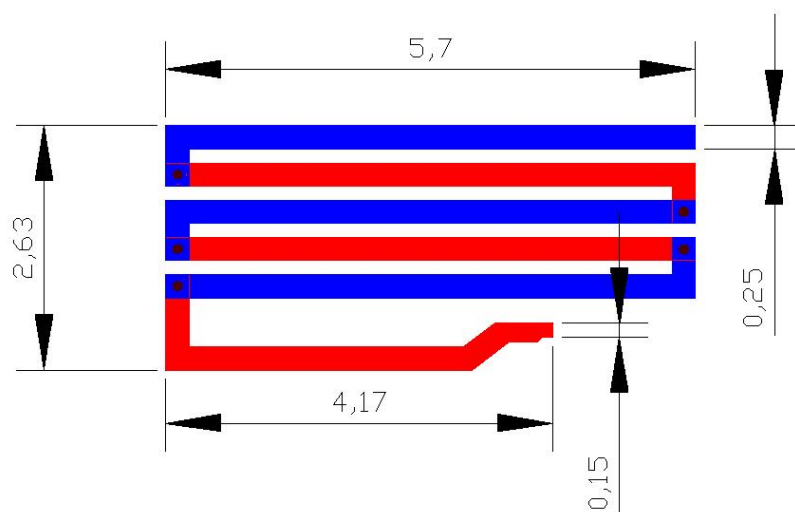
1. Antenna Coding：ANT-BBNCNC26024
2. Antenna Type：PCB onboard Antenna
3. Model of the DUT：ME54BS62_V1.0
- 4 .Test Data ：2026/5/20
- 5 .Product picture：

Product appearance	
PCB board and antenna	

二、Technical Specification

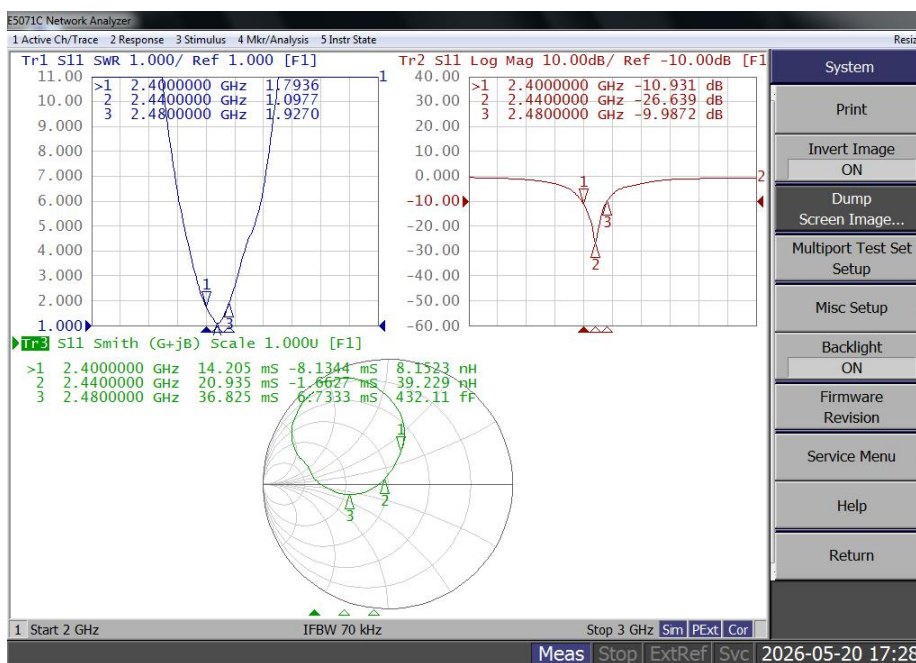
Electrical Specifications	
Frequency Range	2400-2480 MHz
Peak Gain	-0.70 dBi
Efficiency	41.65%
Return Loss	≤ -9.98 dB
VSWR	≤ 1.92
Bandwidth ($S_{11} \leq -10$ dB)	80 MHz
Input Impedance	50 Ω
Radiation direction	Omni
Polarization Type	Linear
Lightning Protection	DC grounding
Power Capacity	1000mW (30dBm)
Mechanical Specifications	
Antenna Size	5.7 x 2.63 mm
Core Radiator	Copper
Substrate material	FR4
Substrate thickness	0.6 mm
Substrate Size (mm)	6 x 3 x 0.6 mm
Coaxial wire	NC
Connect Type	NC
Operating Temperature	-40 to +85° C
Storage Temperature	-40 to +85° C

三、The shape and size of the antenna



四、The result of the test

1 .VSWR & Return loss & Smith



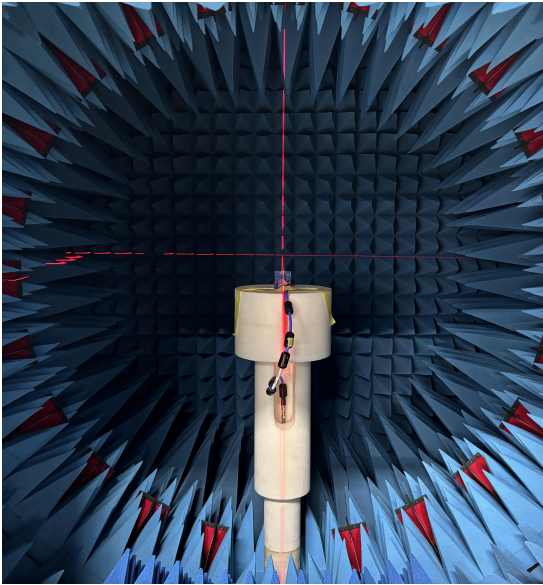
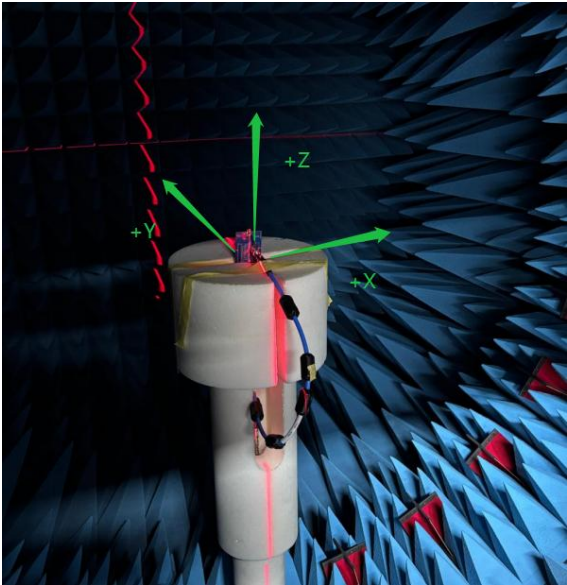
Frequency (MHz)	Return Loss (dB)	VSWR
2402	-10.93	1.79
2440	-26.63	1.09
2480	-9.98	1.92
Bandwidth (S11≤-10dB)	80	

2. Antenna Testing Environment

(1).Test Equipment : SATIMO, SY-24M, Agilent-E5071C

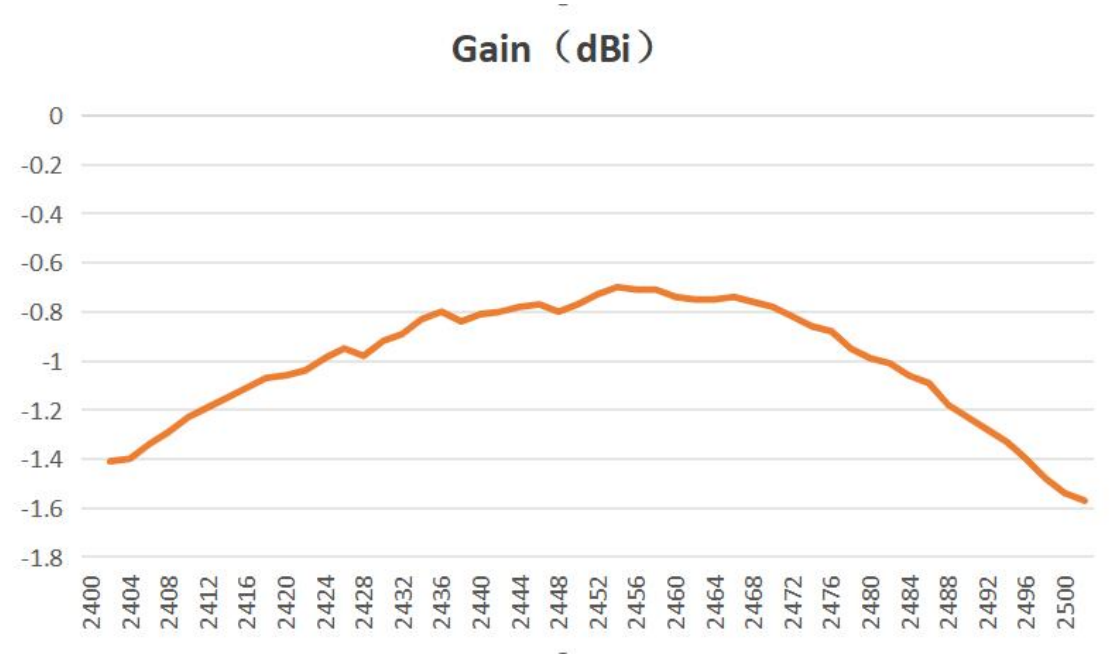
(2).Test Engineer : Wanli Zhu

(3).Test Environment : The microwave unreflected chamber

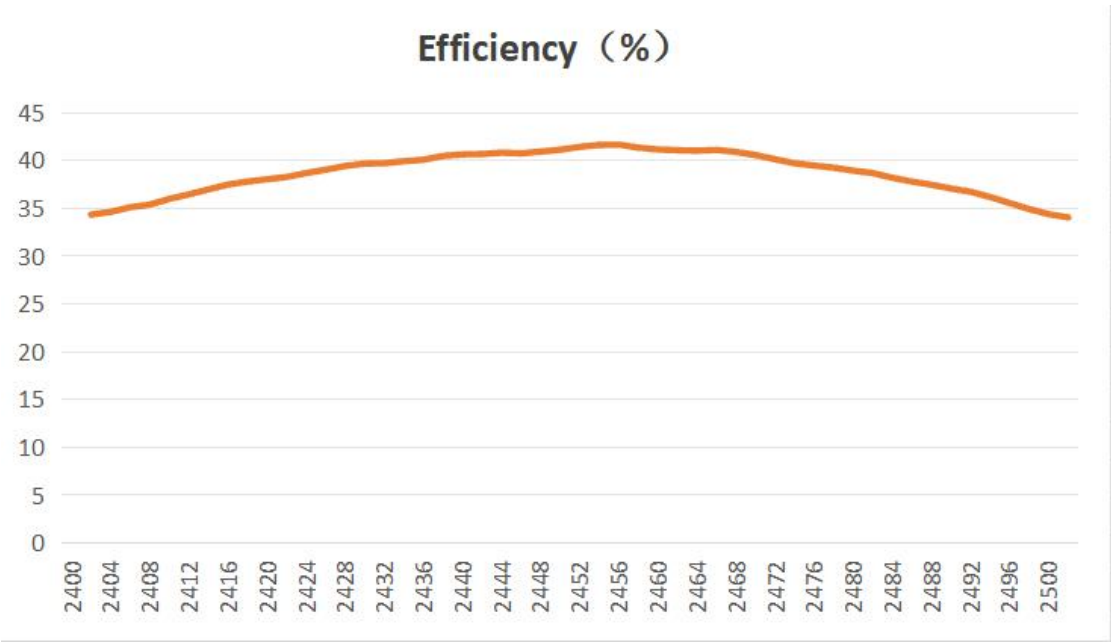
Inside the microwave anechoic chamber	Product coordinate axis position
	

3 .Gain and Efficiency

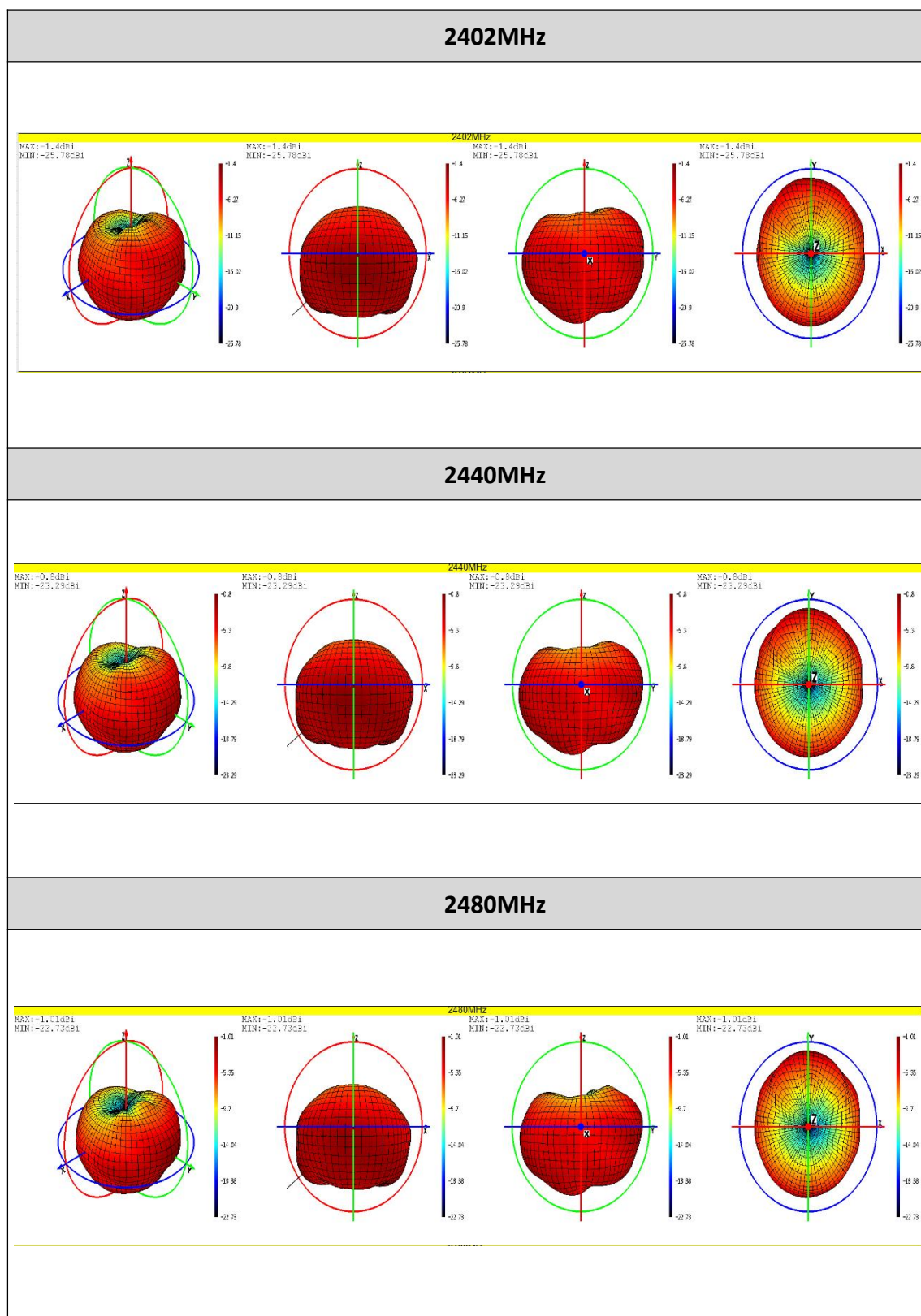
(1).Antenna Efficiency



(2).Antenna Gain



4 .3D Radiation Pattern



5.2D Radiation Pattern

