

WT2605B03 Onboard BT Antenna

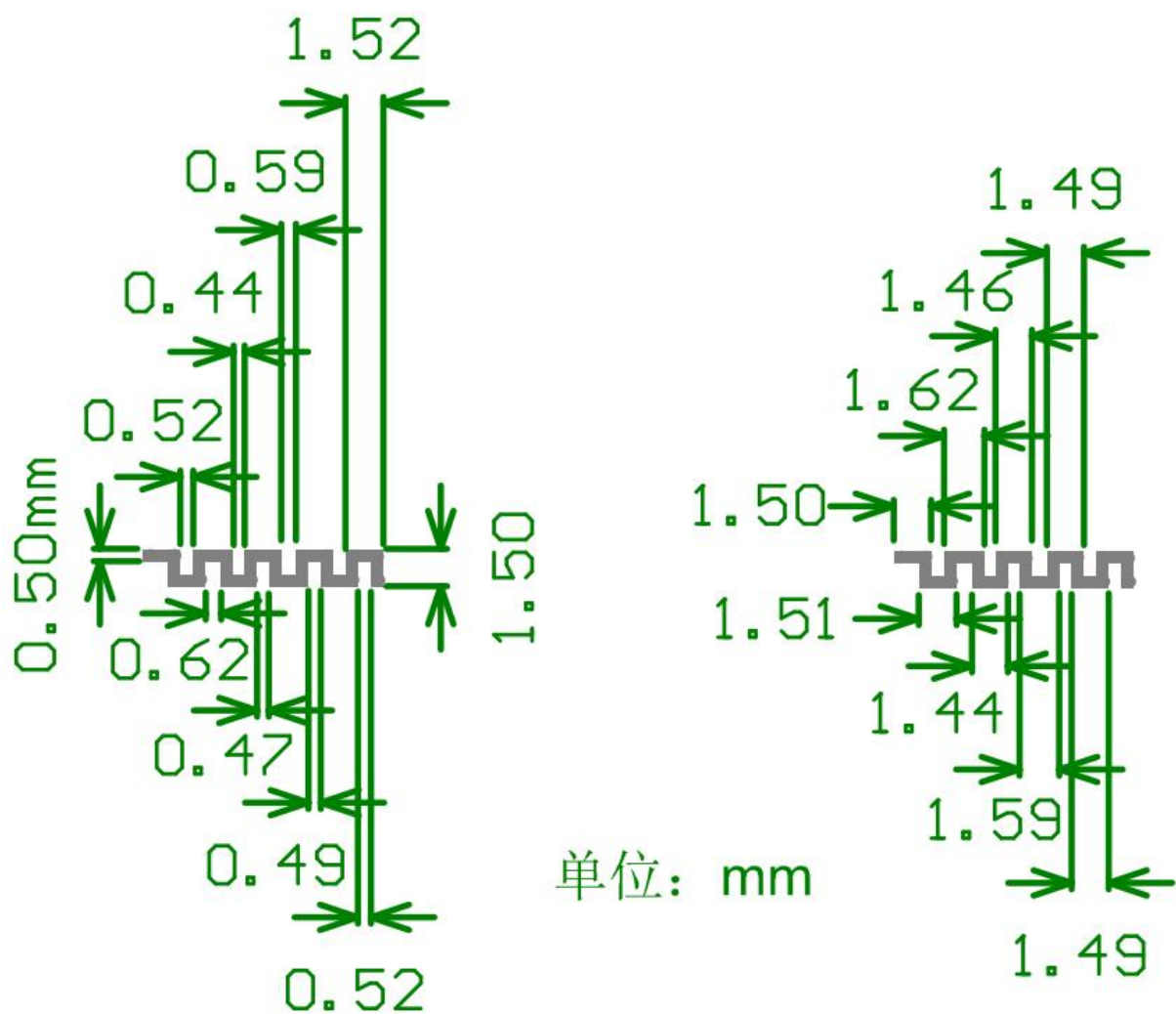
Version : V1.01

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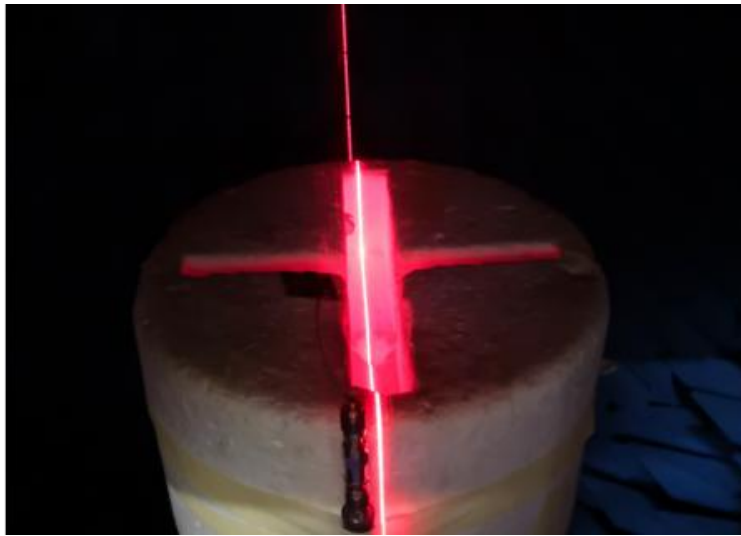
1. Electrical Specification

Working Frequency Range	2400~2484MHz
Peak Gain	-1.5dBi
Impedance	50Ohm
OperationTemperature(℃)	-40~85℃

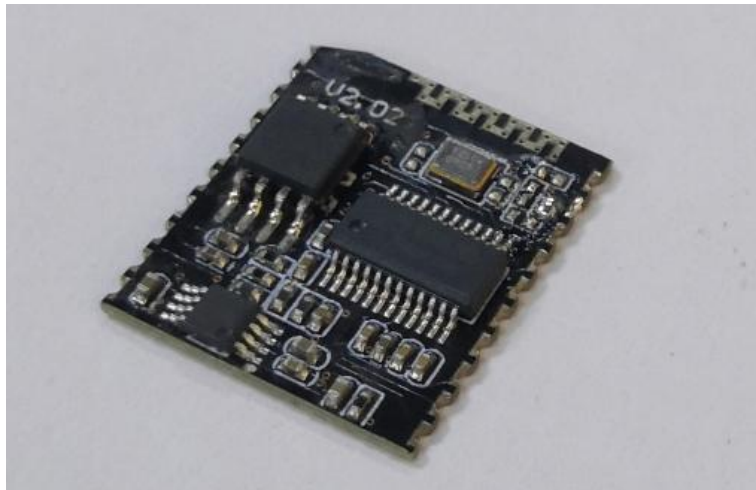
2. Antenna Dimensions



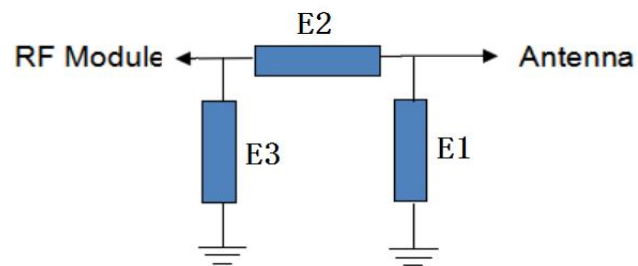
3. Test Environment



4. Antenna Picture



5. Matching Circuit

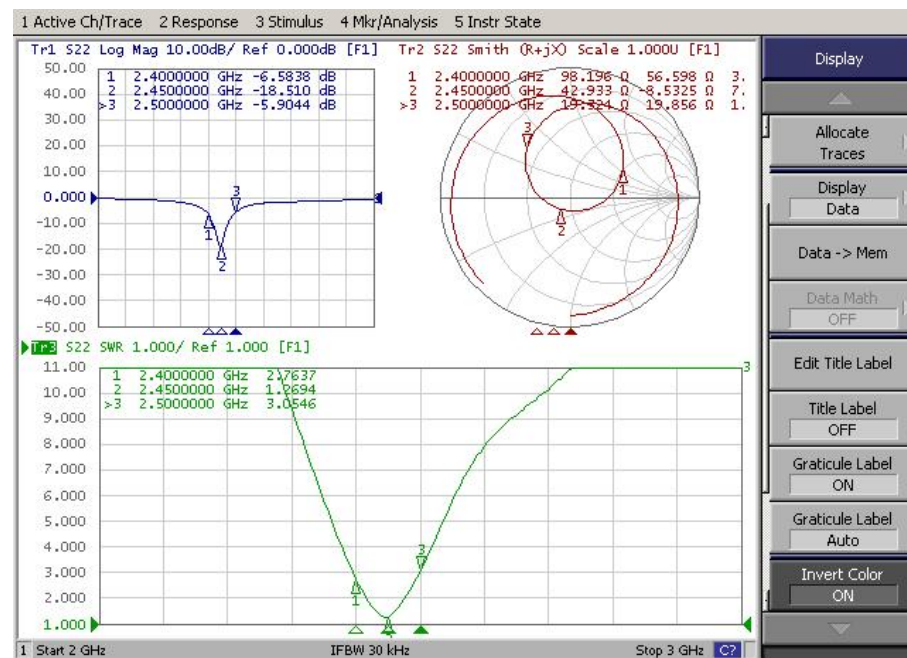


Element	BT Antenna
	Value
E1(0402)	NC
E2(0402)	0 ohm
E3(0402)	NC

6. Electrical Characteristics

Return Loss & Radiation

Antenna S Parameters:

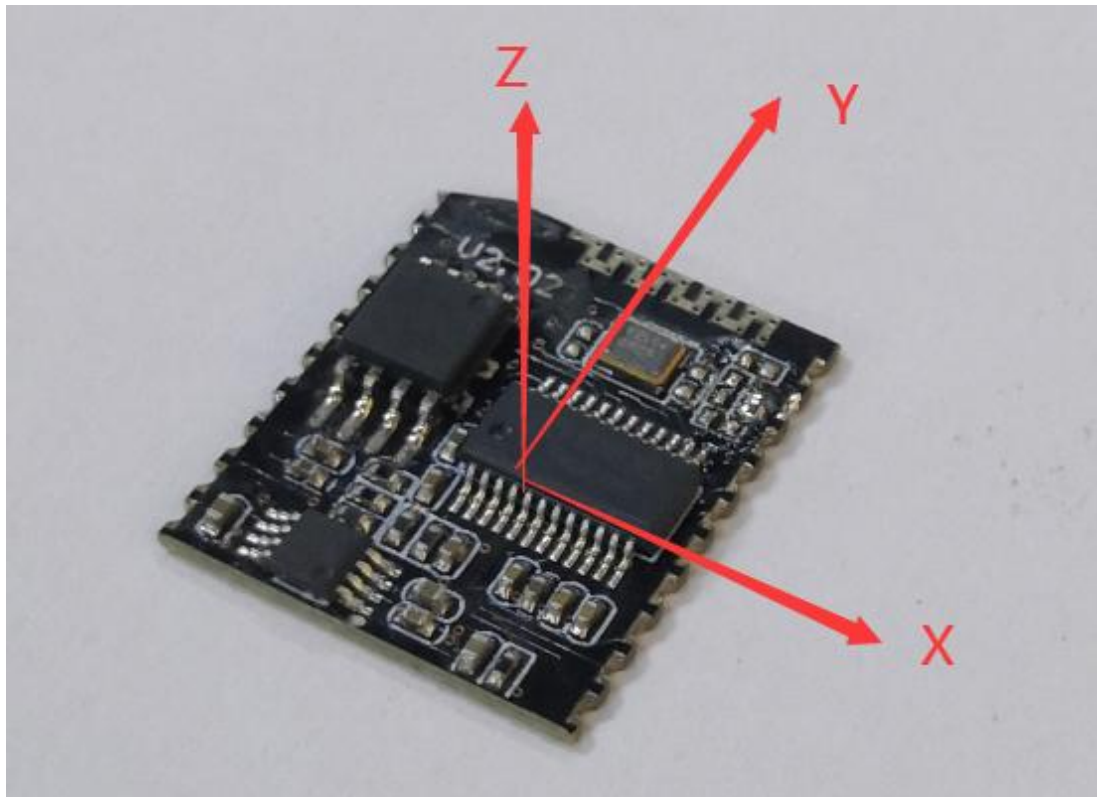


Passive efficiency, Gain test data:

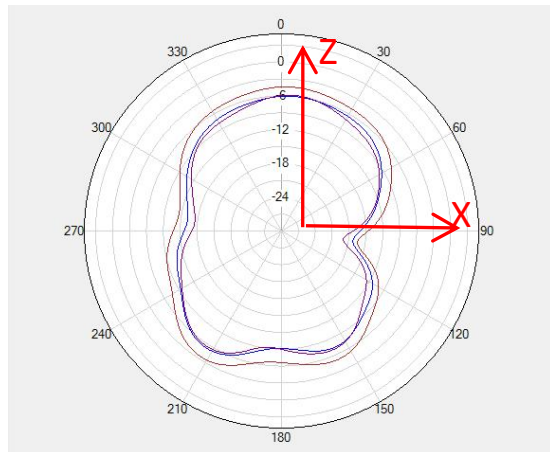
Frequency Band (MHz)	Gain (dBi)	Efficiency (%)
2400	-3.69	19.8
2410	-2.9	23.44
2420	-2.33	26.15
2430	-1.85	28.68
2440	-1.53	30.69
2450	-1.5	30.81
2460	-1.83	28.25
2470	-2.3	25.34
2480	-2.67	23.27
2490	-3.32	20.4
2500	-4.13	17.14

2D/3D Diagram:

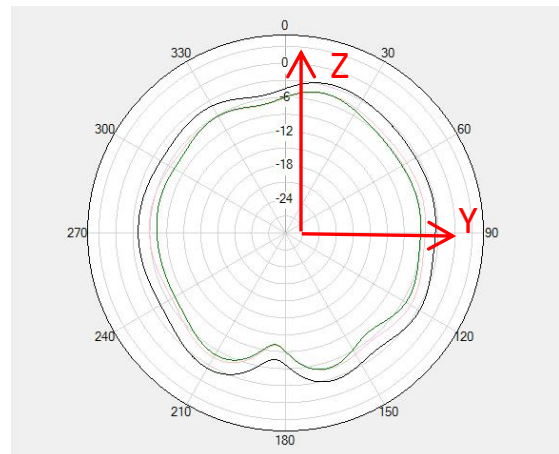
Note: The direction +Z is vertical upward, and the antenna is facing the +Y direction



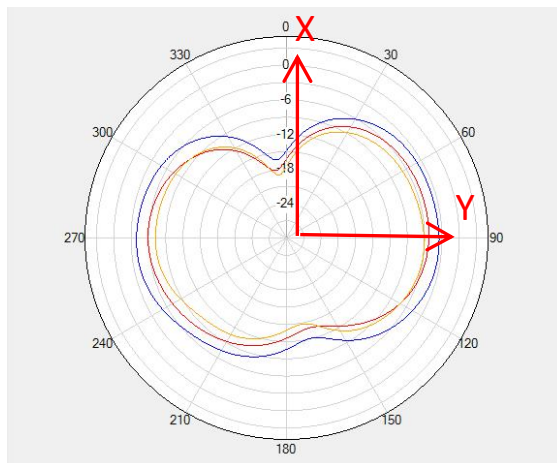
Phi=0



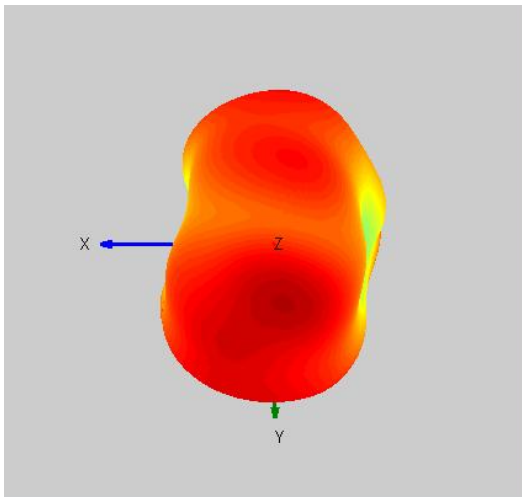
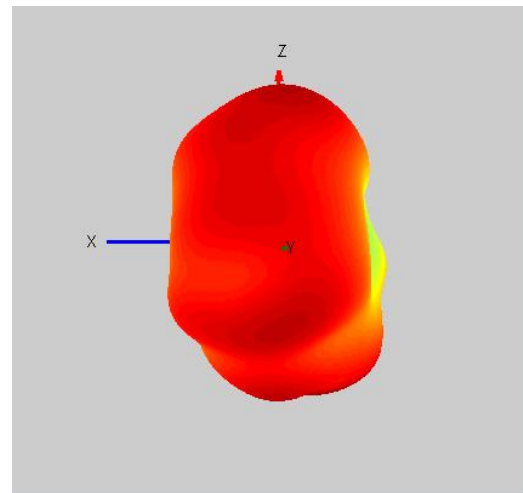
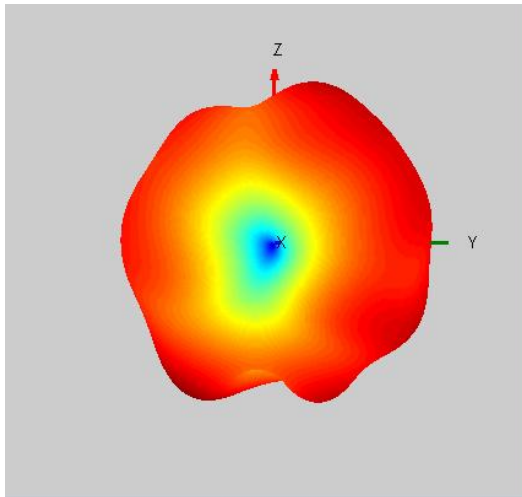
Phi=90



Theta=90



Radiation:



7. Revision History

Revision	Date	Content
V1.00	2023-07-26	First edition
V1.01	2023-07-28	Match Peak Gain Modification