

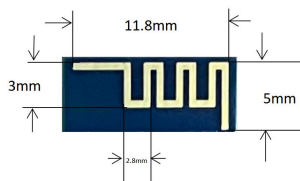
## Product specification

### Quick Reference Data

	Antenna module on the system board	
Frequency	2400-2500MHz*	
Ant.Port Input Pwr.(dBm)	0(Typ.BT class 2 output power)	
Tot.Rad.Pwr.(dBm)	-2.3(Input pwr-loss pwr)	
Peak EIRP(dBm)	1.3	
Directivity(dBi)	1 (all direction antenna)	
Efficiency(dB)	-3(68.5%)	
Gain(dBi)	0(Peak Gain XY-plane)	
Maximum Power(dBm)	0(XY-plane)	
Minimum Power(dBm)	-0.94(YZ-plane)	
Avg.Power(dBm)	-6.1(XY-plane)	
Max/Min Ratio(dB)	-5.5(XY-plane)	
Max/Avg Ratio(dB)	-5.8(XY-plane)	
Min/Avg Ratio(dB)	-0.3(XY-plane)	
Average Gain(dB)	-3.0(Avg Gain XY-plane)	

All the technical data and information contained herein are subject to change without prior notice

### On-board antenna Layout & module on the system board

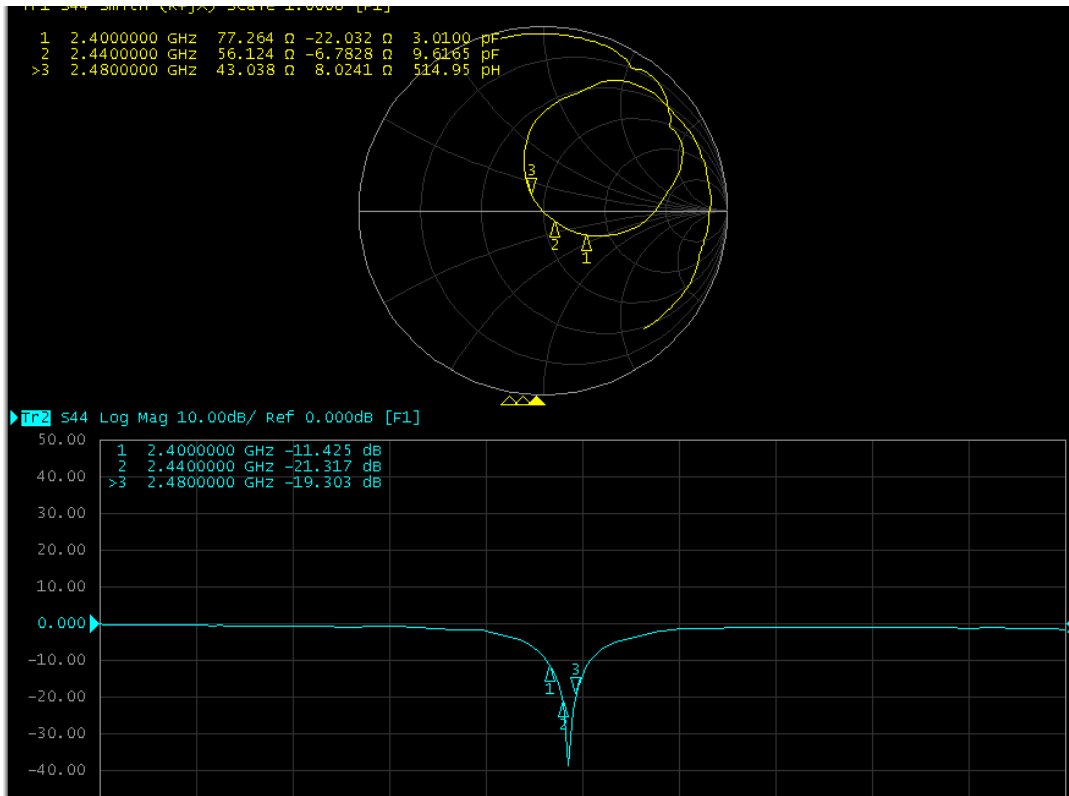


#### Antenna Gain

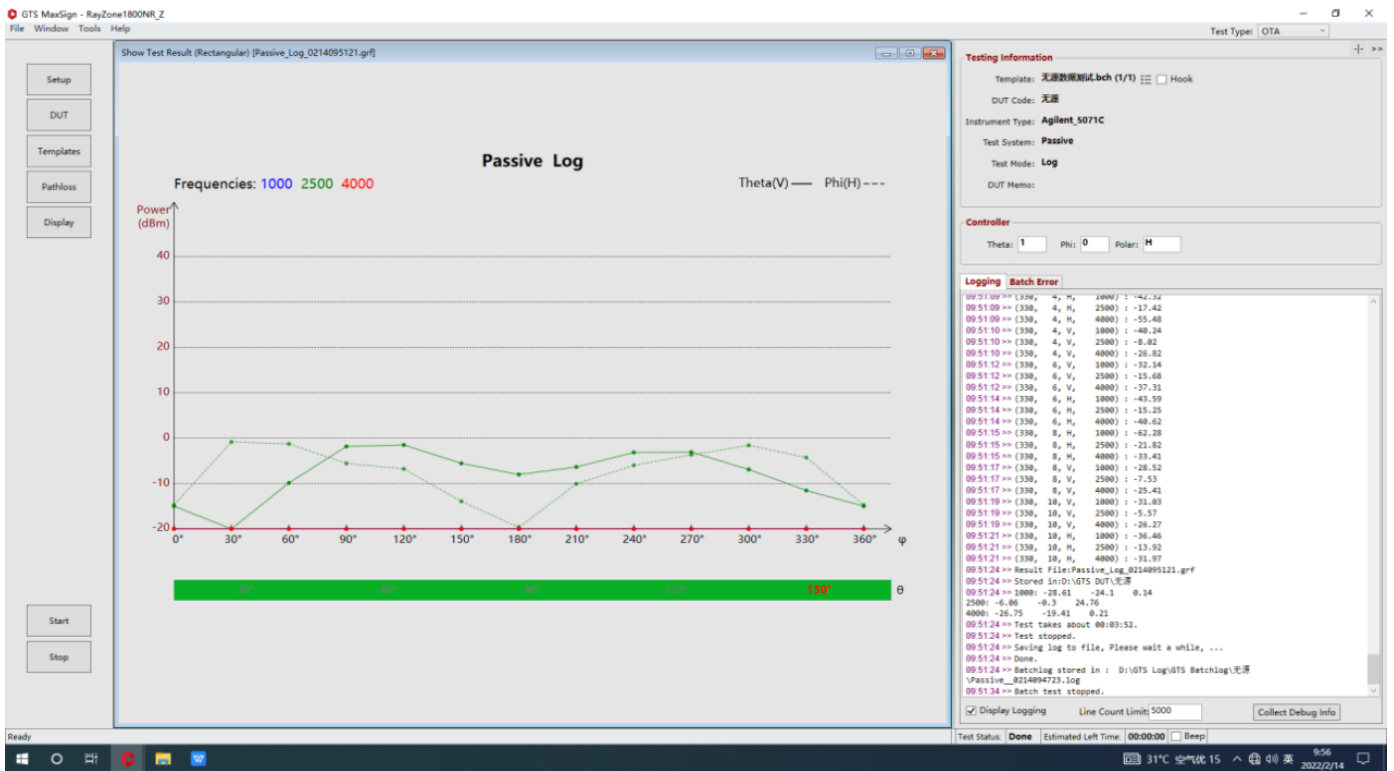
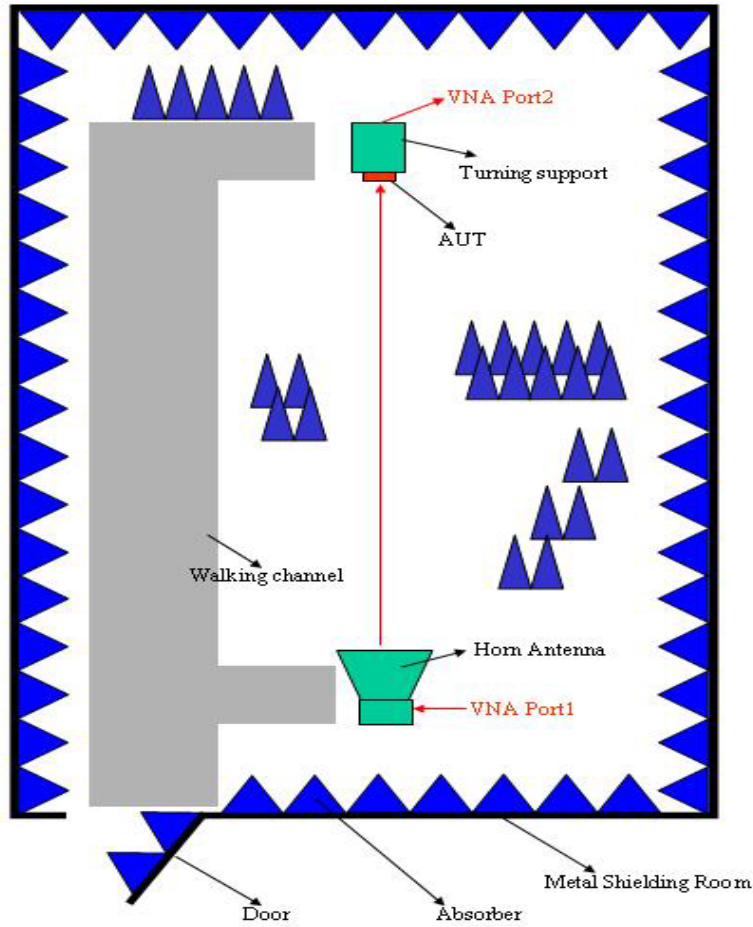
Gain Table

Unit in dBi @ 2.44GHz	XY-plane		XZ-plane		YZ-plane		Efficiency
	Peak	Avg.	Peak	Avg	Peak	Avg	
Module Board	0	-6.0	-0.58	-6.42	-0.94	-10	31.5%

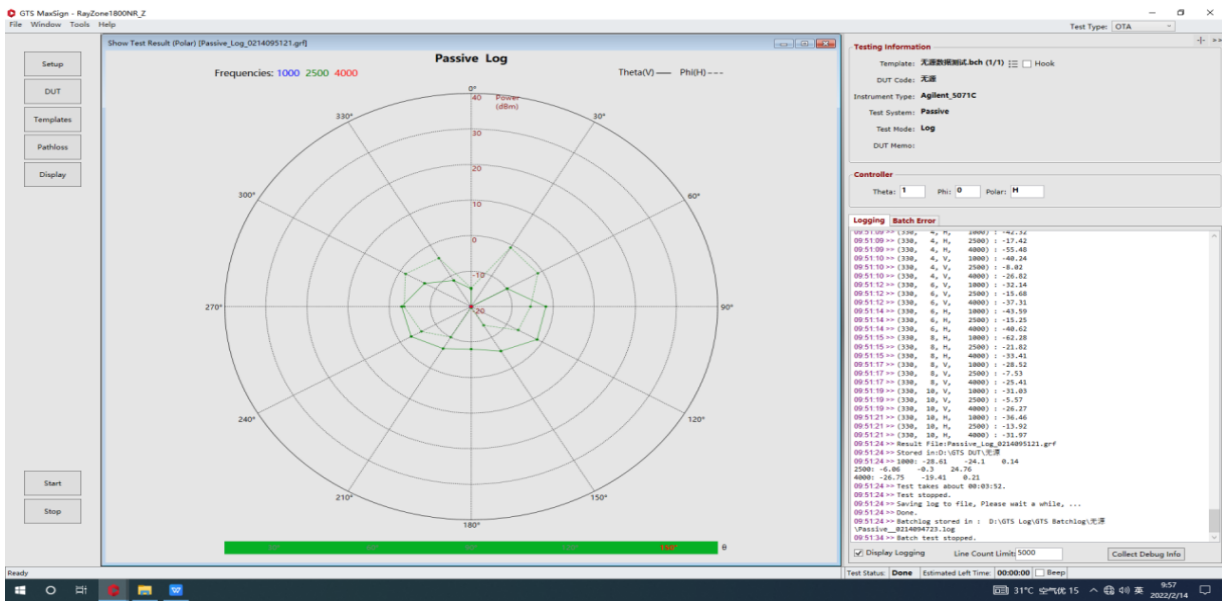
# Return Loss



# The Environment of Antenna Radiation Pattern



# 3D radiation pattern diagram



XY-plane

XZ-plane

YZ-plane

