

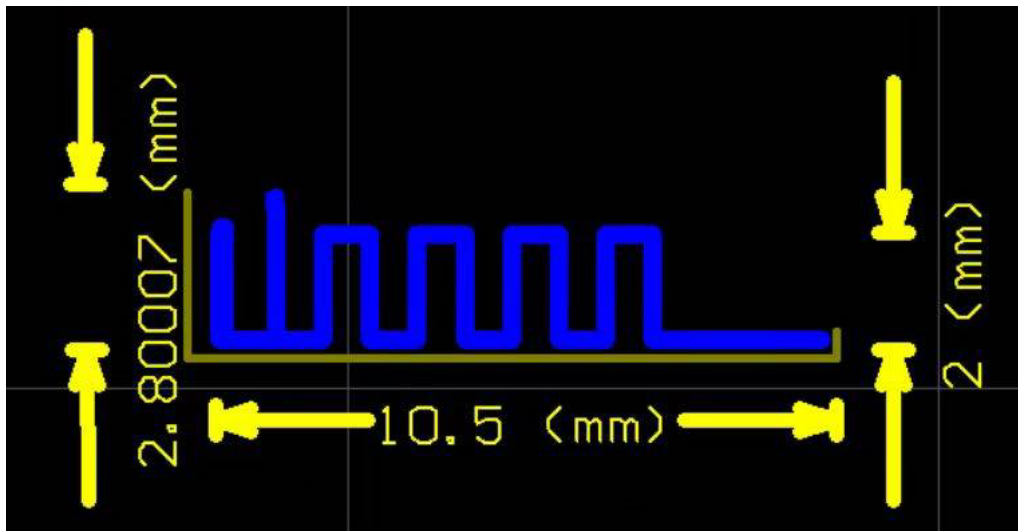
PCB Antenna specification

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Chenghai District, Shantou City, Guangdong Province, China

Quick Reference Date	Antenna module on the system board	
Model Name	Inverted F-type onboard antenna	
Antenna type	PCB	
Frequency	2.402--2480MHZ	
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)	-2.3(58.5%)	
Gain(dBi)	1.7(Peak Gain XZ-plane)	
Maximum Power(dBm)	1.3(XY-plane)	
Minimum Power(dBm)	-4(XY-plane)	
Avg. Power (dBm)	-0.5(XY-plane)	
Max/Min Ratio(dB)	5.3(XY-plane)	
Max/Avg Ratio(dB)	1.8(XY-plane)	
Min/Avg Ratio(dB)	-3.5(XY-plane)	
Average Gain(dB)	-0.5(Avg Gain XY-plane)	

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

Antenna Layout & module on the system board



Antenna Gain

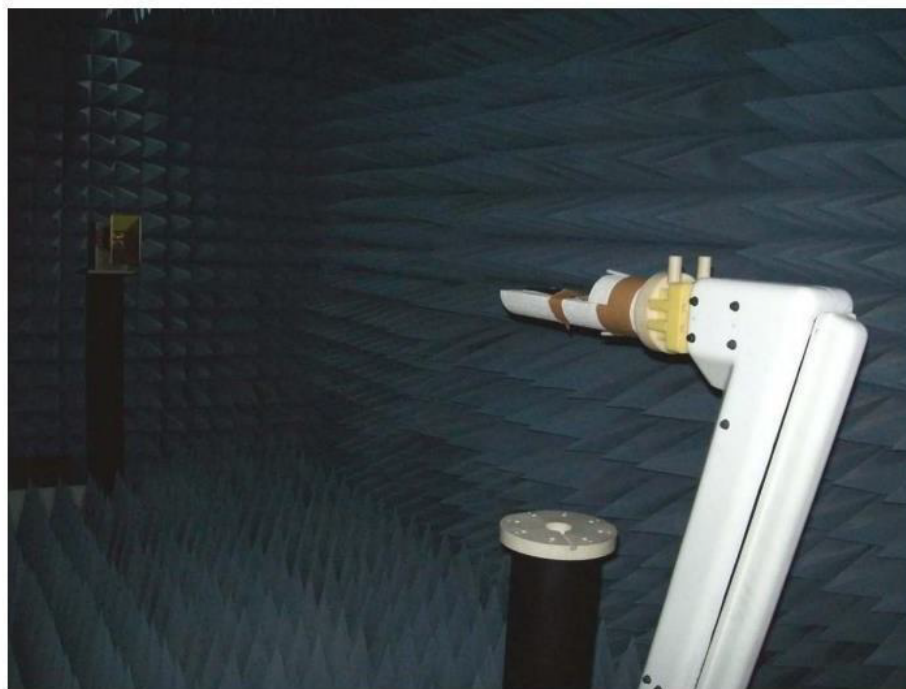
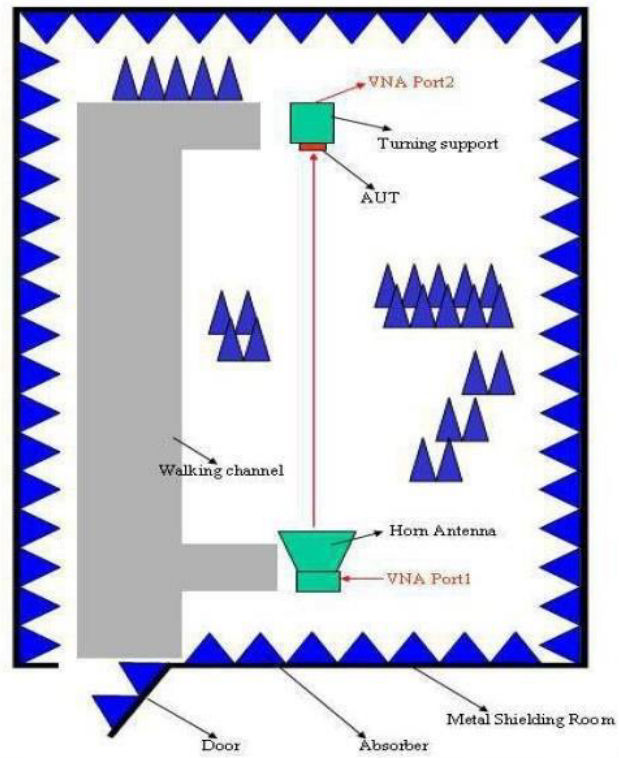
Gain Table

Unit in dBi @2.44GHz	XY-plane		XZ-plane		YZ-plane		Efficiency
	Peak	Avg.	Peak	Avg.	Peak	Avg.	
Module Board	1.3	-0.5	1.7	-3.8	1.1	-3.0	58.5%

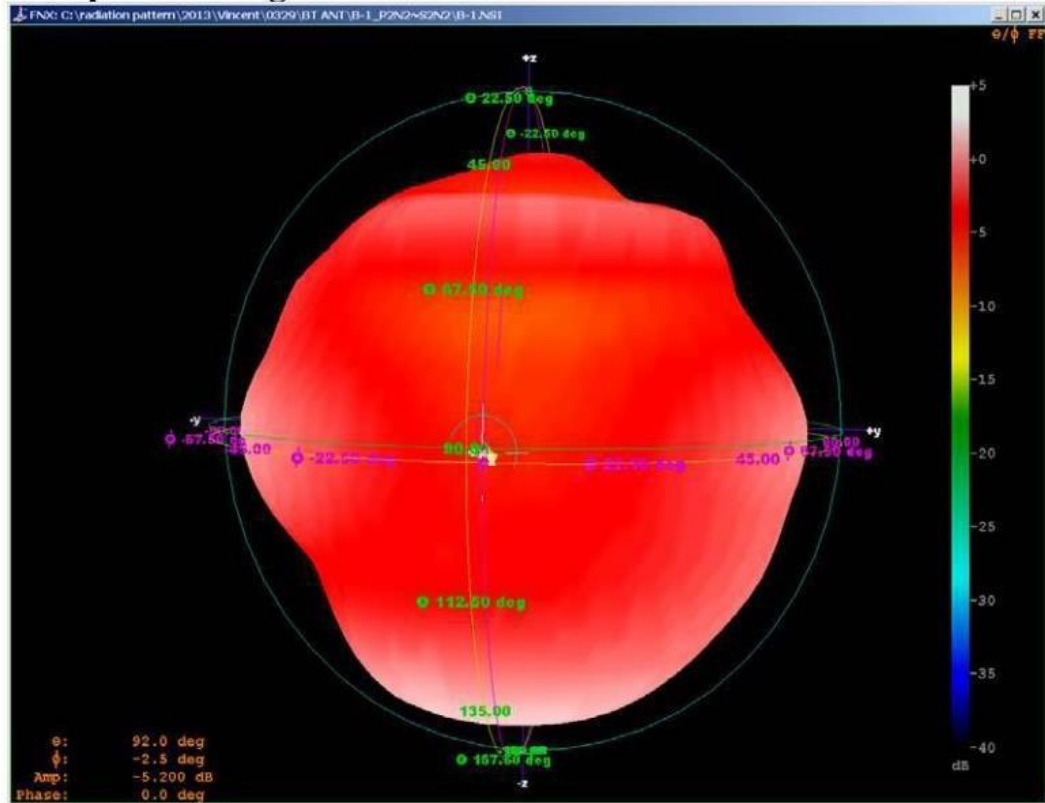
Return Loss



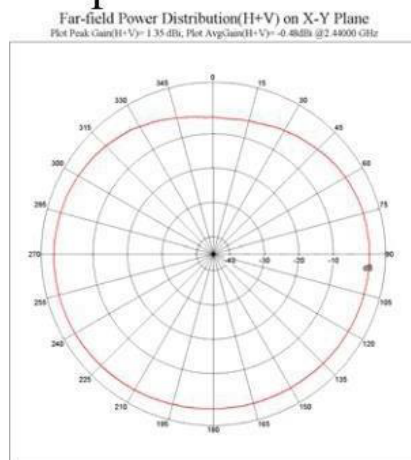
The Environment of Antenna Radiation Pattern



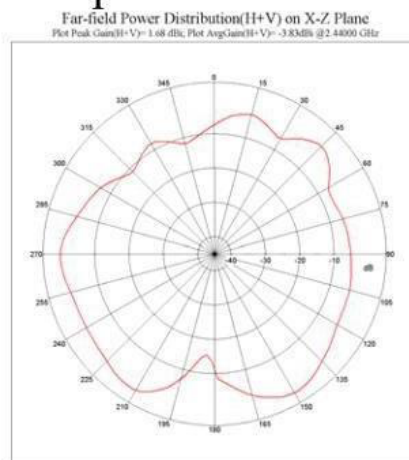
3D radiation pattern diagram



XY-plane



XZ-plane



YZ-plane

