

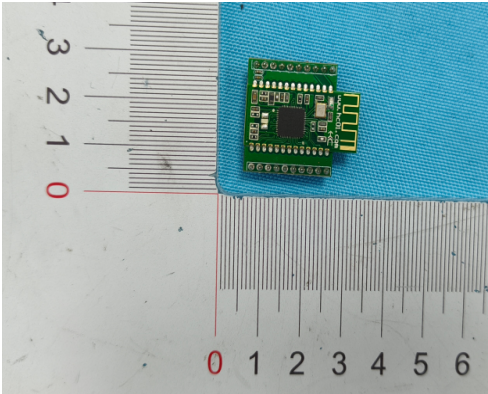
Product specification

Quick Reference Date

	Antenna module on the system board	
Antenna type	PCB	
Frequency	2.4GHz~2.48GHZ ₁	
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	
Directivity (dBi)	1 (all direction antenna)	
Efficiency (dB)	-2.3 (58.5%)	
Gain (dBi)	1(Peak Gain XY-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

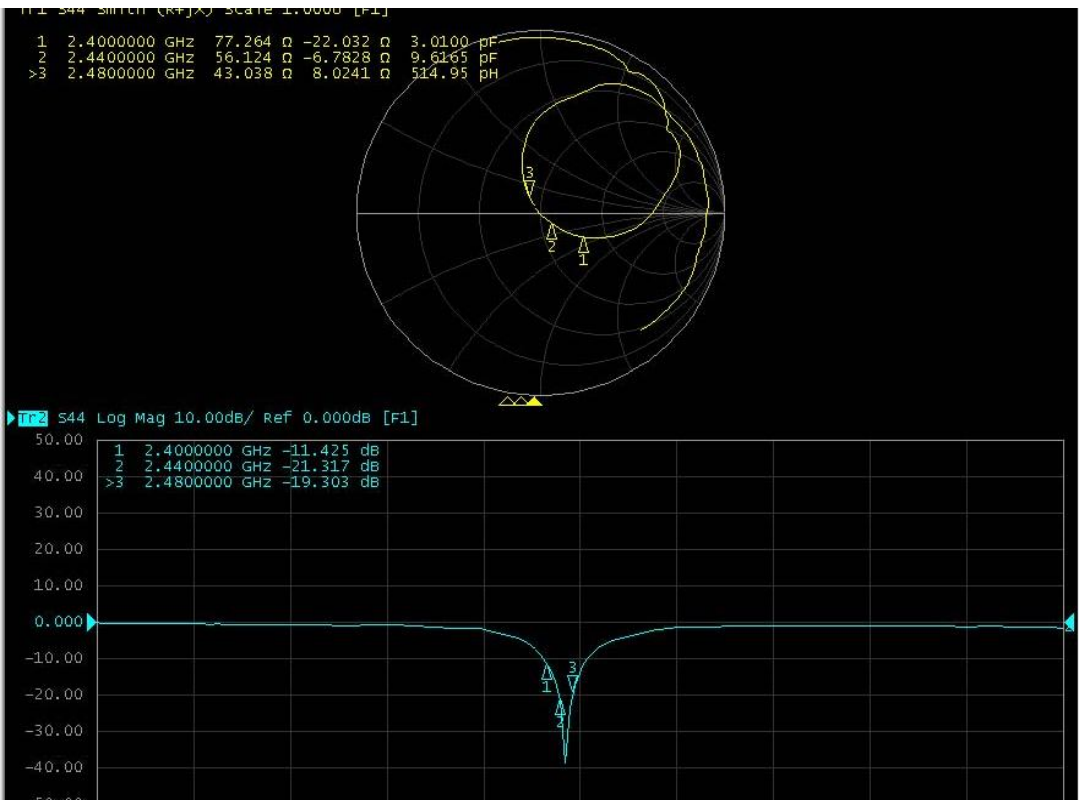
Antenna Layout & module on the system board



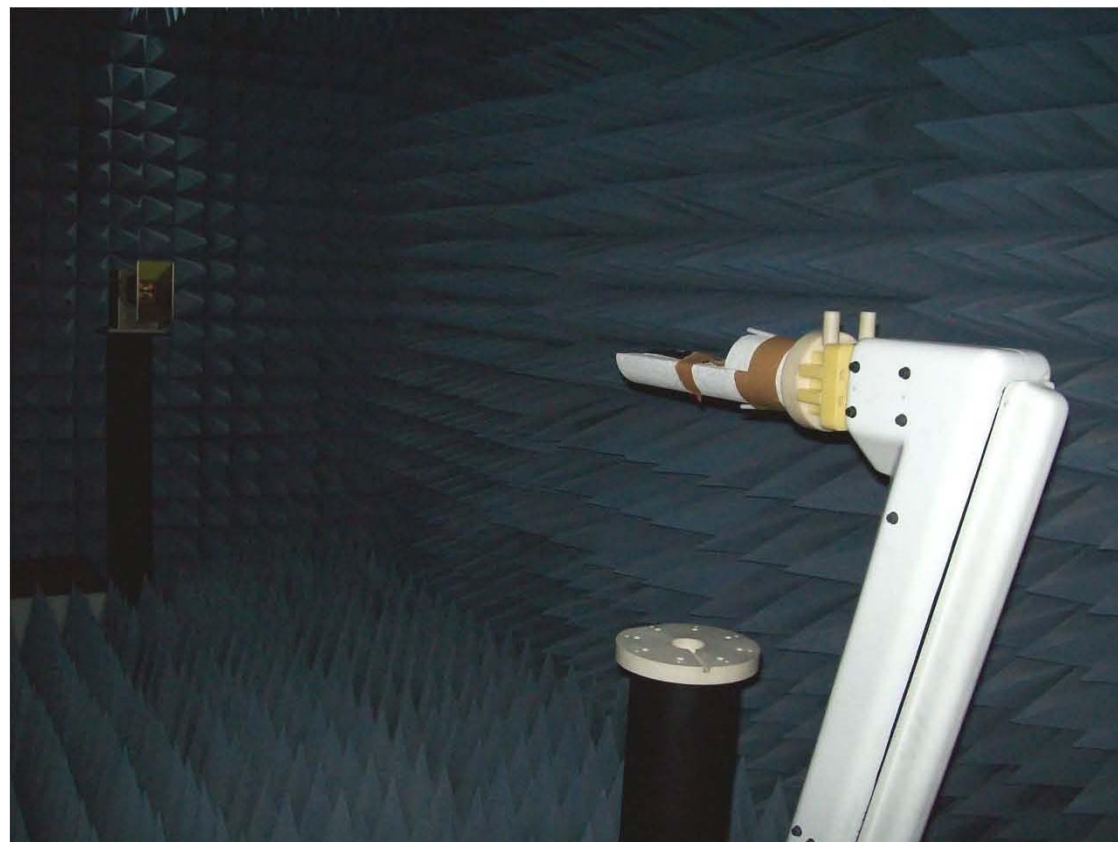
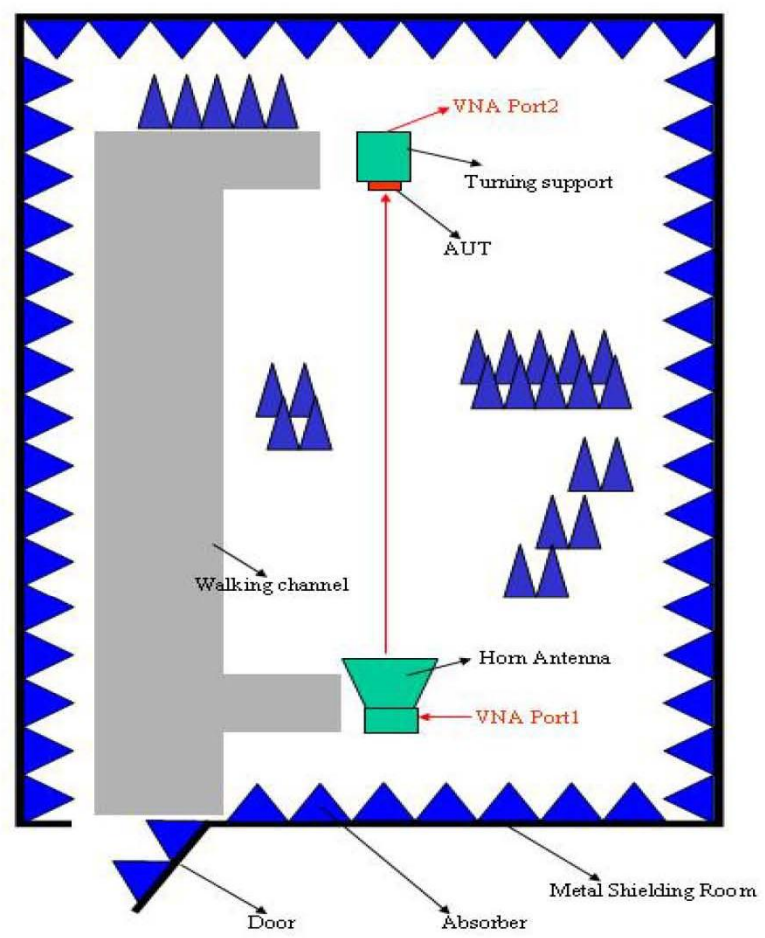
Antenna Gain

Unit in dBi @2.44GHz	XY-plane		XZ-plane		YZ-plane		Efficiency
	Peak	Avg.	Peak	Avg.	Peak	Avg.	
Module Board	0.9	-0.5	1.0	-3.8	0.8	-3.0	58.5%

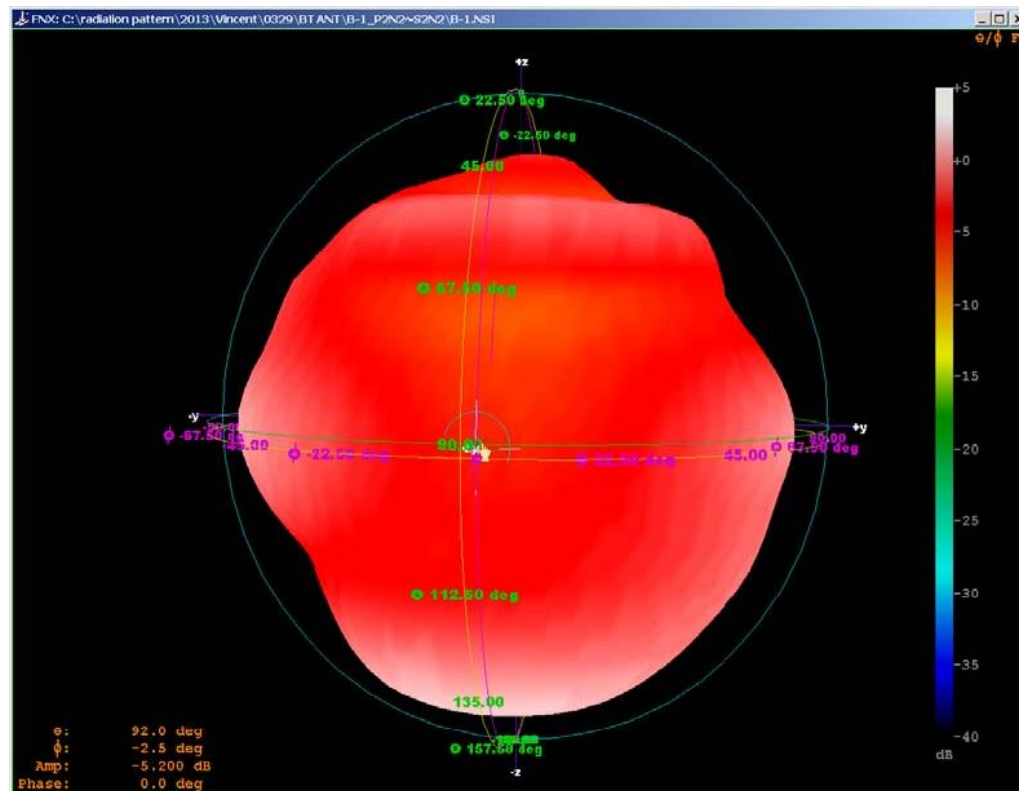
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Return Loss

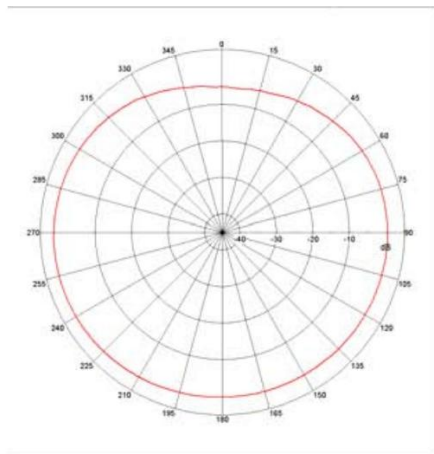


The Environment of Antenna Radiation Pattern



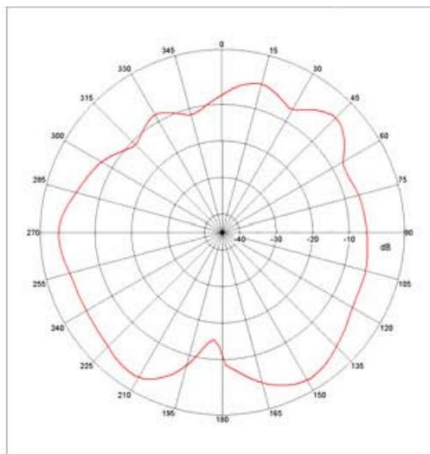
3D radiation pattern diagram

Far-field power Distribution(H+V)on Y-X Plane
Plot peak Gain(H+V)=0.9dbi;plot AvgGain(H+V)=-0.5dBi@2.44000GHz



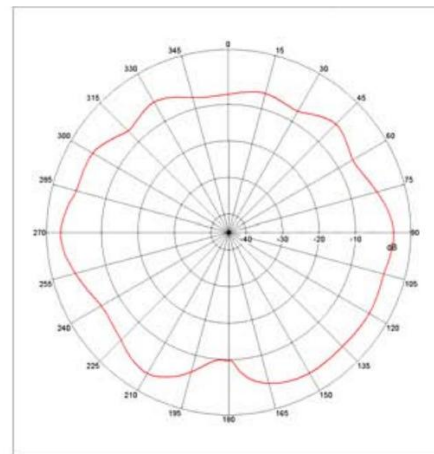
XY-plane

Far-field power Distribution(H+V)on X-Z Plane
Plot peak Gain(H+V)=1.0dbi;plot AvgGain(H+V)=-3.8dbi@2.44000GHz



XZ-plane

Far-field power Distribution(H+V)on Y-Z Plane
Plot peak Gain(H+V)=0.8dBi;plot AvgGain(H+V)=-3.0dBi>@2.44000GHz



YZ-plane