

Antenna data sheet

Quick Reference Data

	Antenna module on the system board
Frequenc Range	2400 ~ 2500MHz
Ant. Port Input Pwr. (dBm)	0 (Typ. BT class 2 output power)
Tot. Rad. Pwr. (dBm)	-1.2 (Input pwr – loss pwr)
Peak EIRP(dBm)	1.2
Directivity (dBi)	1 (all direction antenna)
Efficiency (dB)	6 0.2 %
Gain (dBi)	1.9 (Peak Gain XZ-plane)
Maximum Power (dBm)	1.7 (XY-plane)
Minimum Power (dBm)	-4(XY-plane)
Avg. Power (dBm)	-0.5(XY-plane)
Input Impedence(ohm)	50
Polarization Type	Vertical & Horizontal
V . S .W . R	< 1.4

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

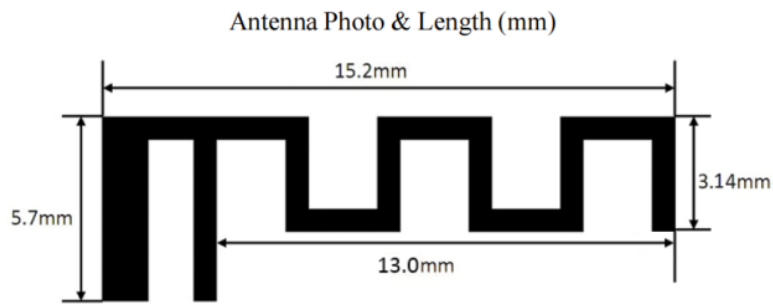
Manufacturer : SHENZHEN SHIXINZHONGXN TECHNOLOGY. CO., LTD

Address : 215, No. 142, Songyu Road, Hongxing Community, Songgang Street
Baoan District, Shenzhen

Antenna Name : 2.4G antenna

Antenna Type : PCB antenna

Antenna Layout & module on the system board

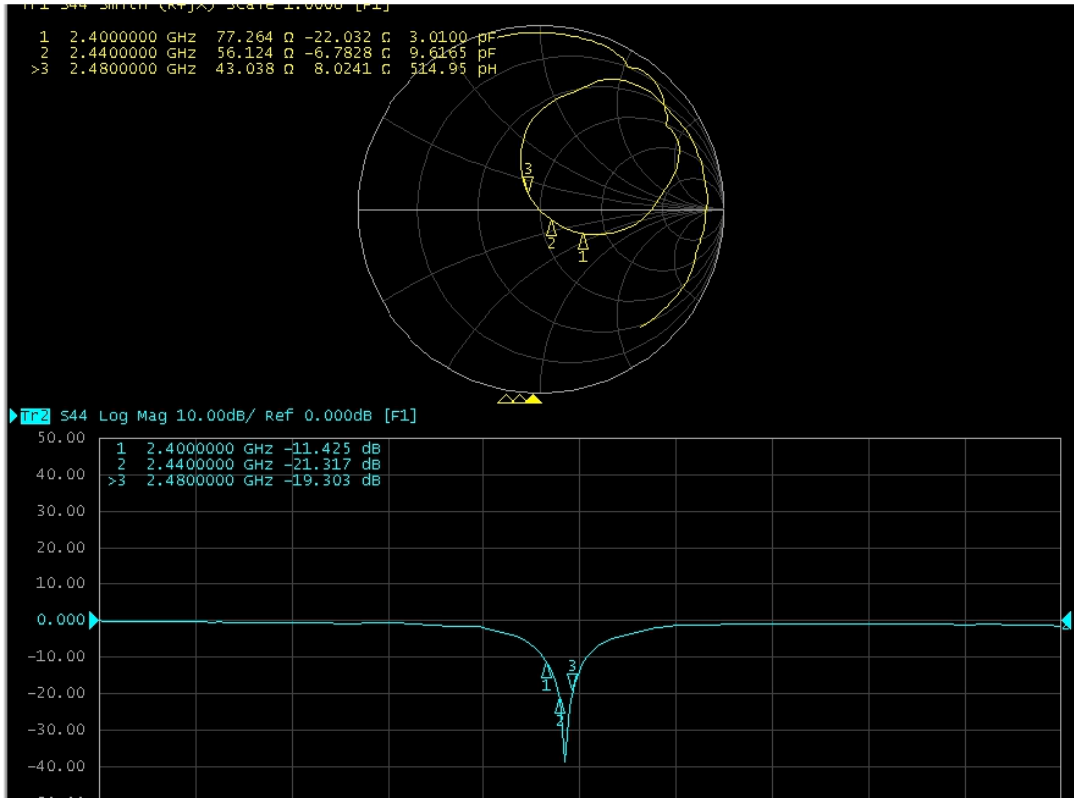


Antenna Gain

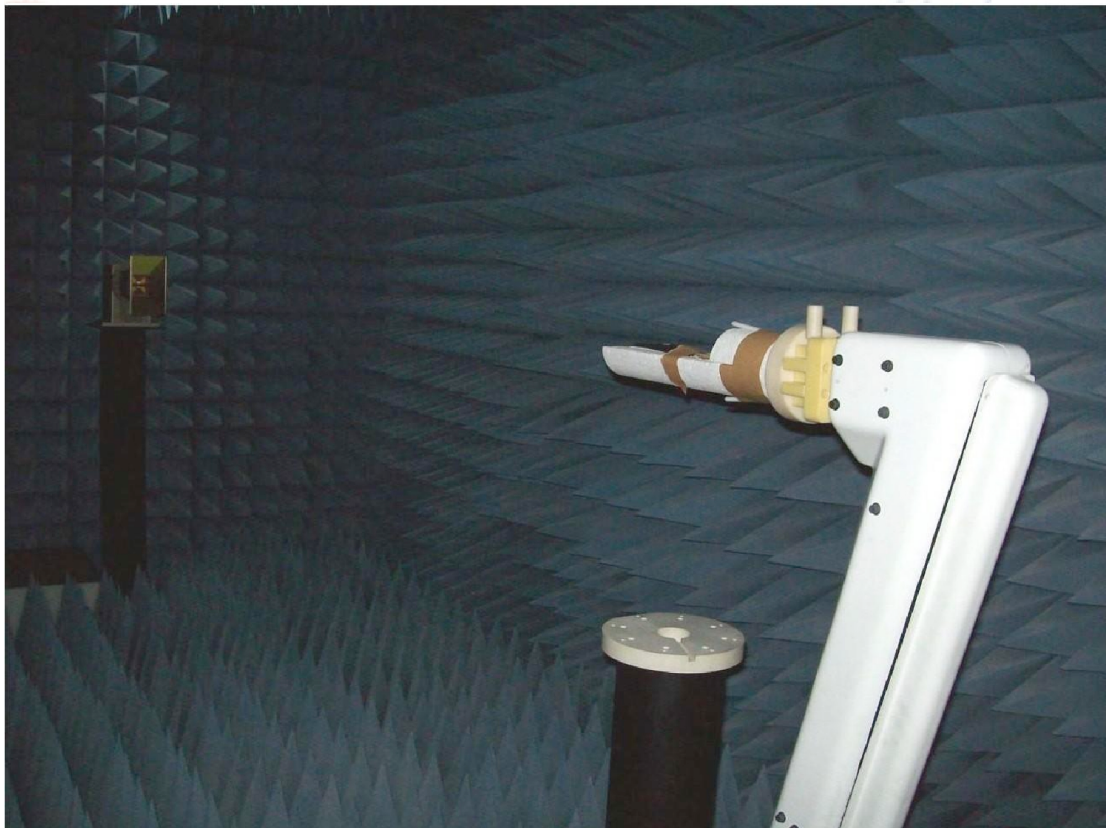
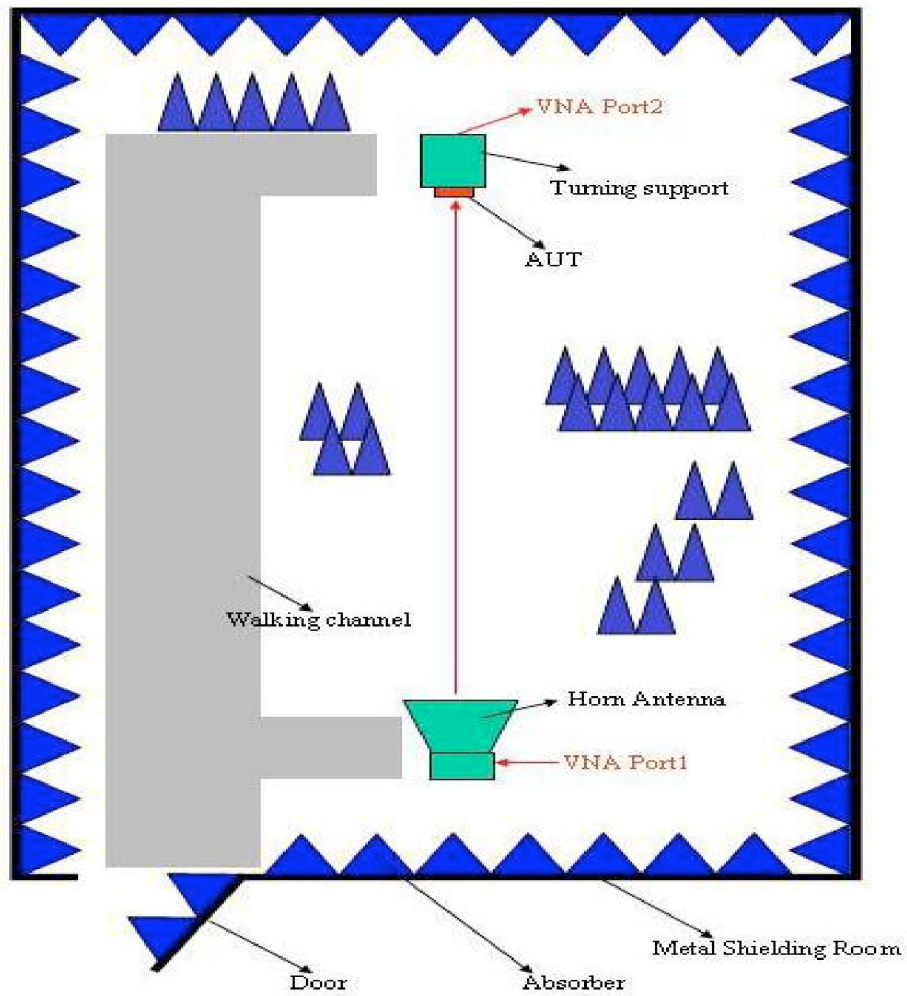
Gain Table

Unit in dBi @2.44GHz	XY-plane		XZ-plane		YZ-plane		Efficiency
	Peak	Avg.	Peak	Avg.	Peak	Avg.	
Module Board	1.2	-0.5	1.9	-3.6	1.1	-3.0	60.2 %

Return Loss



The Environment of Antenna Radiation Pattern



Far-field Power Distribution(H+V) on X-Y Plane
 Plot Peak Gain(H+V)= 1.35 dB; Plot AvgGain(H+V)= -0.48dBi (@2.44000 GHz)

Far-field Power Distribution(H+V) on X-Z Plane
 Plot Peak Gain(H+V)= 1.68 dB; Plot AvgGain(H+V)= -3.83dB @2.44000 GHz

Far-field Power Distribution(H+V) on Y-Z Plane
 Plot Peak Gain(H+V)= 1.11 dB; Plot AvgGain(H+V)=-2.99dBi @2.4000 GHz

The plot displays the far-field power distribution in the Y-Z plane. The radial axis represents the power level in dB, ranging from 0 to 40. The angular axis represents the direction in degrees, ranging from 0 to 345. The radiation pattern is shown as a red line, indicating a relatively uniform distribution with a slight dip around 210 degrees.