

Manufacturer: GUANGZHOU RANTION TECHNOLOGY CO., LTD.

Product SDecification

Quick Reference Date

	Antenna module on the system board	
Frequenc Range	2400 ~2500MHz	
Ant. Port Input Pwr. (dBm)	0 (Typ. BT class 1 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)	4 (Avg Gain XY-plane)	
Maximum Power (dBm)	1.7 (XY-plane)	
Minimum Power (dBm)	-4(XY-plane)	
Avg. Power (dBm)	-0.5(XY-plane)	
Input Impendence(ohm)	50	
Polarization Type	V ertical & Horizontal	
V .S .W .R	< 1.4	

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

Antenna Layout & module on the system board

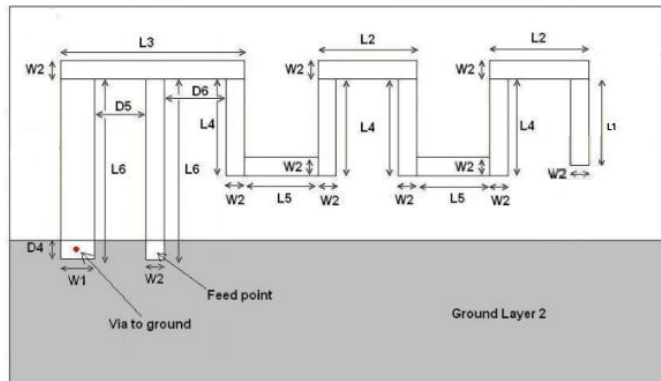


Figure 3: Antenna Dimensions

L1	2.28 mm
L2	2.70 mm
L3	5.00 mm
L4	2.64 mm
L5	2.00 mm
L6	4.90 mm
W1	0.90 mm
W2	0.50 mm
D4	0.50 mm
D5	1.40mm
D6	1.70 mm

Table 1: Antenna Dimensions

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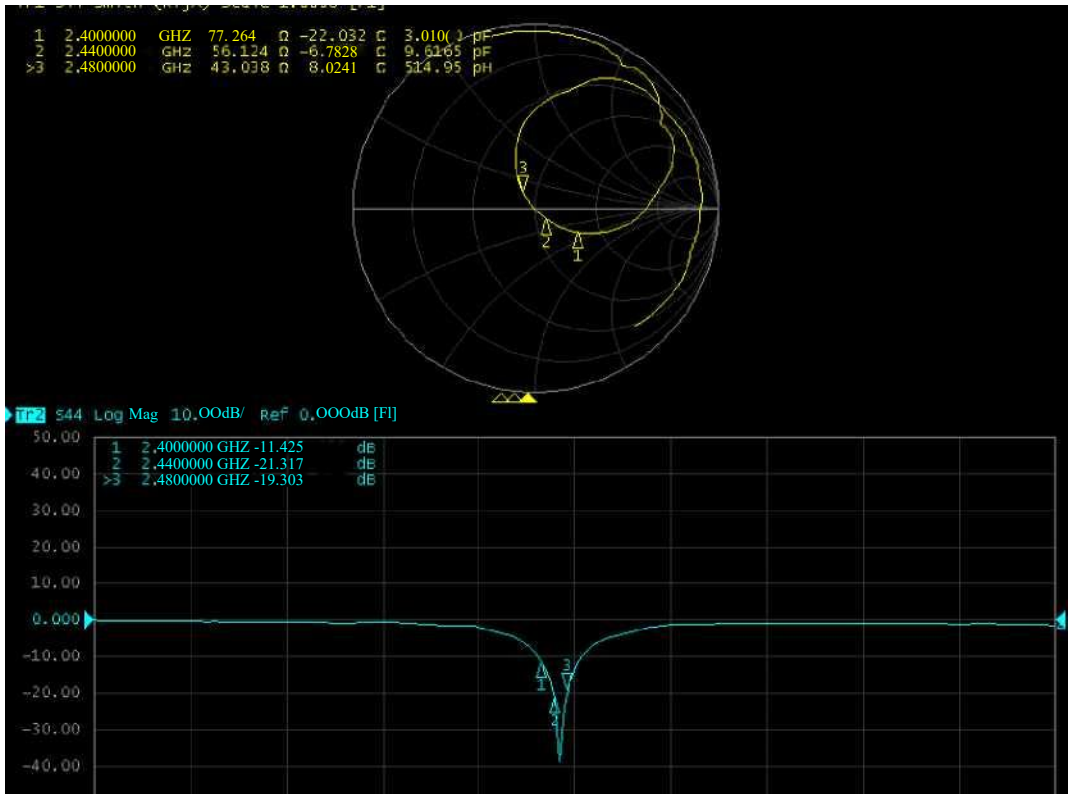
Antenna Gain

Gain Table

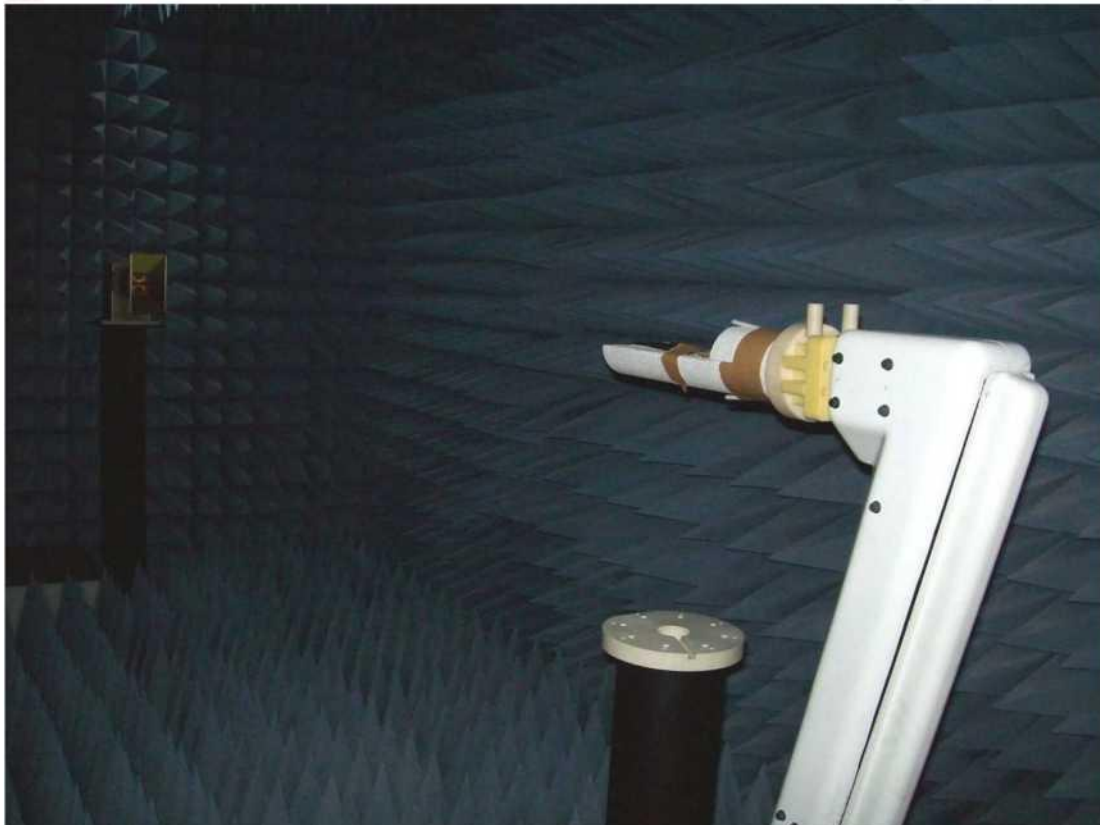
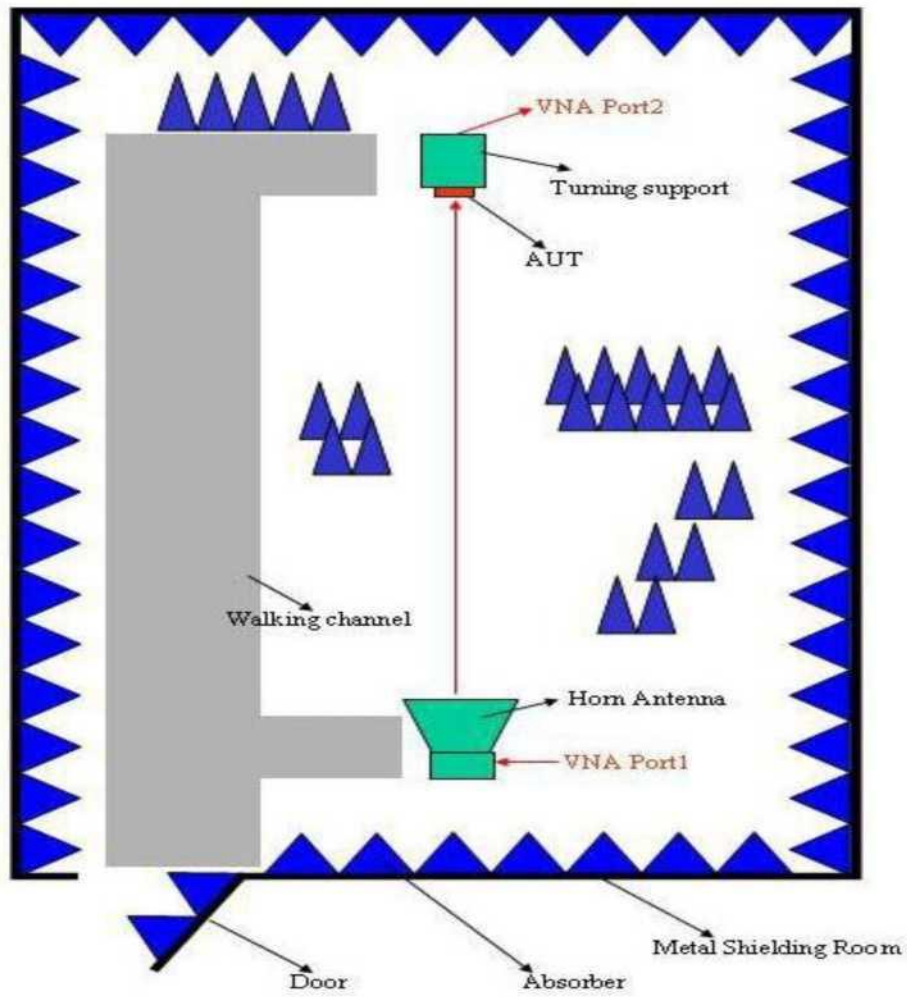
Unit in dBi @2.44GHz	XY-plane		XZ-plane		YZ-plane		Efficiency
	Peak	Avg.	Peak	Avg.	Peak	Avg.	
Module Board	1.2	-0.5	1.9	-3.6	1.1	-3.0	60.2%

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Return Loss

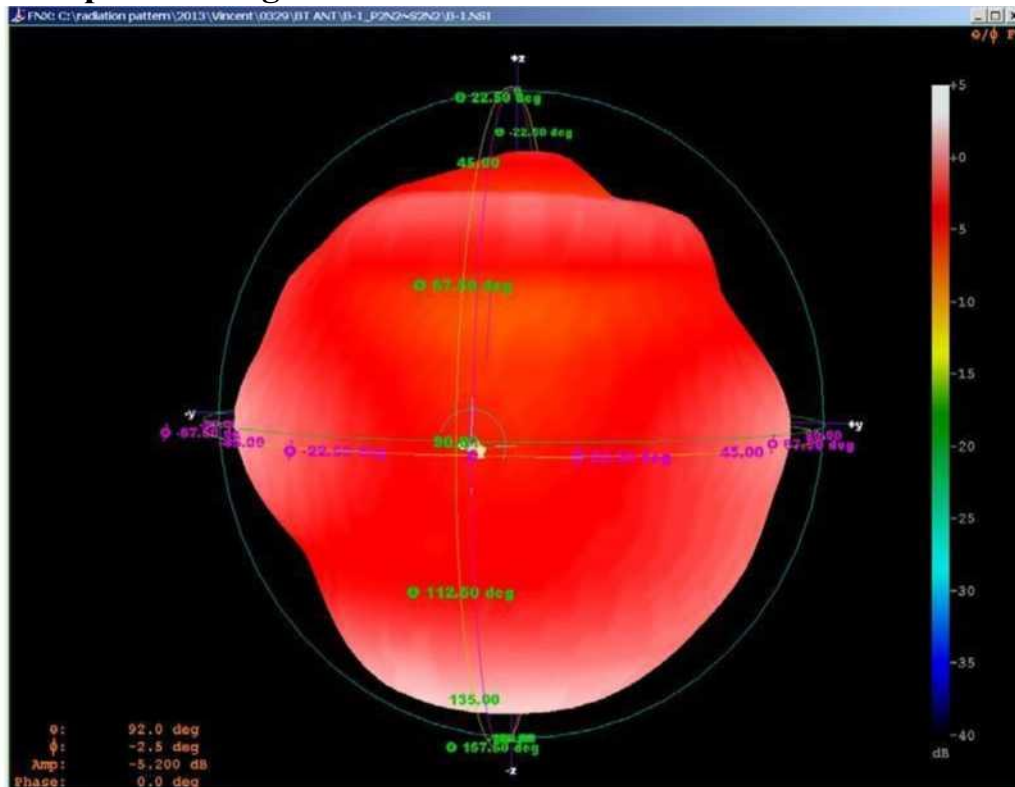


The Environment of Antenna Radiation Pattern



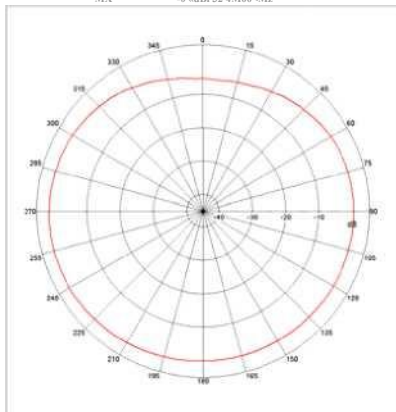
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3D radiation pattern diagram



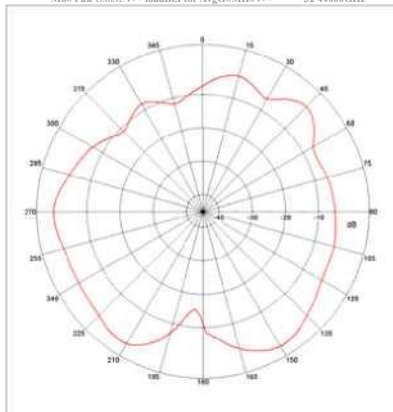
XY-plane

Far-field Power Distribution (V) on X-Y Plane
MX -0 dB 32.4M100-MHz



XZ-plane

Far-field Power Distribution (H+V) on X-Z Plane
Moo Pak GmM.V> -loadBLPlot AvgGmMHeV> 32.44000GHz



YZ-plane

Far-field Power Distribution (H+V) on Y-Z Plane
* 2 GmM.Vh * 1 g PIM AveGmMHeV> -2 -NdBI 32.44000GHz

