

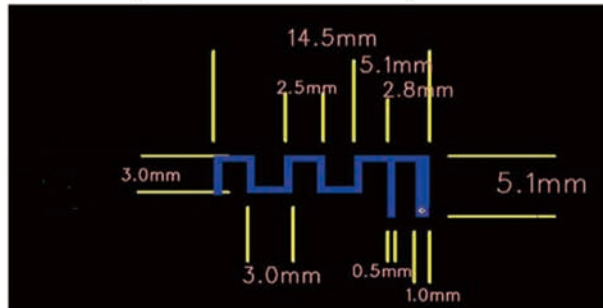
## Product specification

### Quick Reference Data

	Antenna module on the system board
Antenna type	PCB
Frequency	2.45GHz <sup>*1</sup>
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)	0.68 (Peak Gain X Z-plane)
Maximum Power (dBm)	0.52 (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

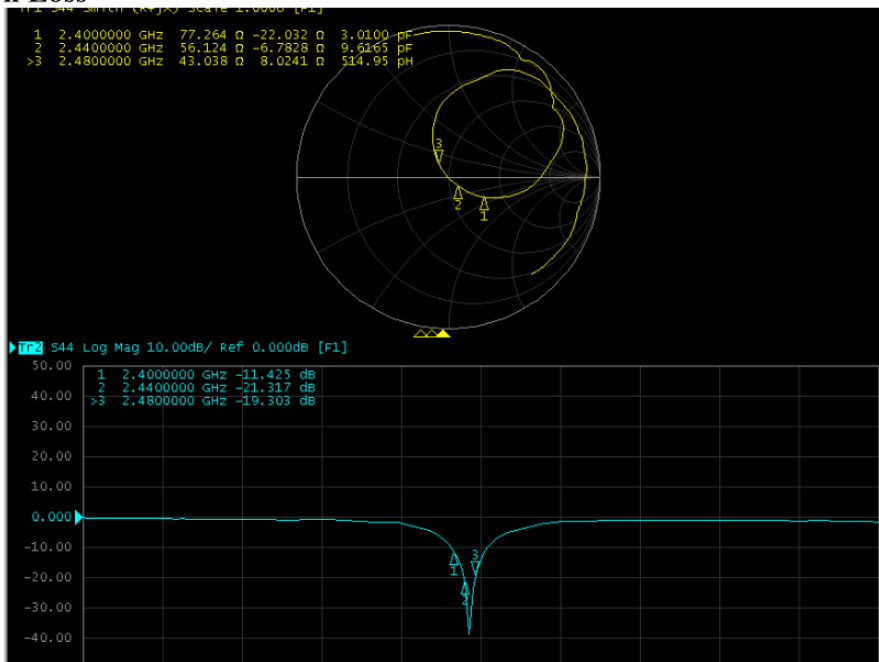


### Antenna Gain

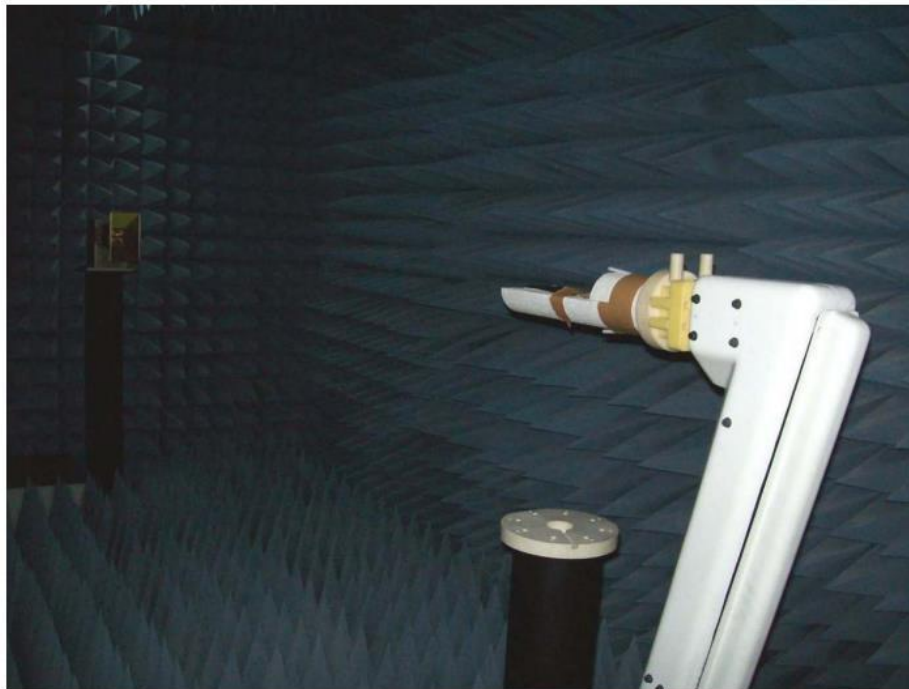
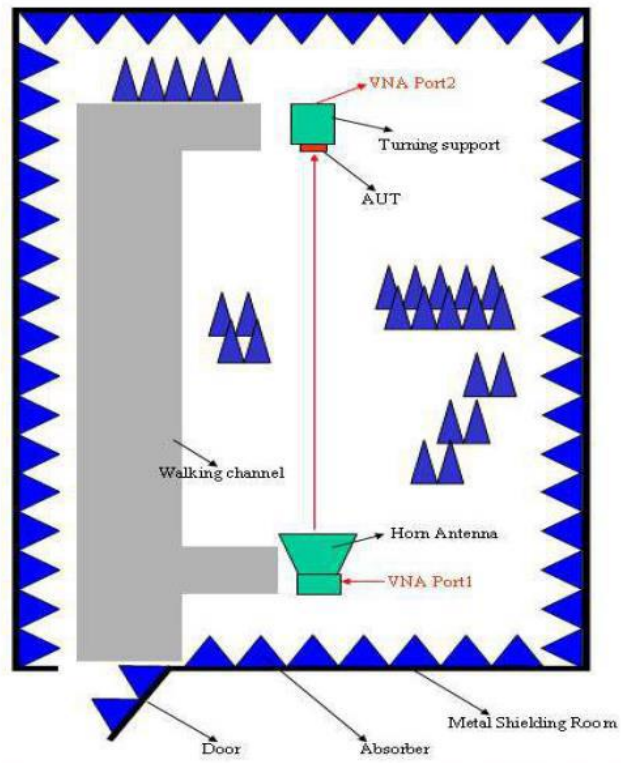
Gain Table

Unit in dBi @2.44GHz	XY-plane		XZ-plane		YZ-plane		Efficiency
	Peak	Avg.	Peak	Avg.	Peak	Avg.	
Module Board	0.52	-0.5	0.68	-3.8	0.44	-3.0	58.5%

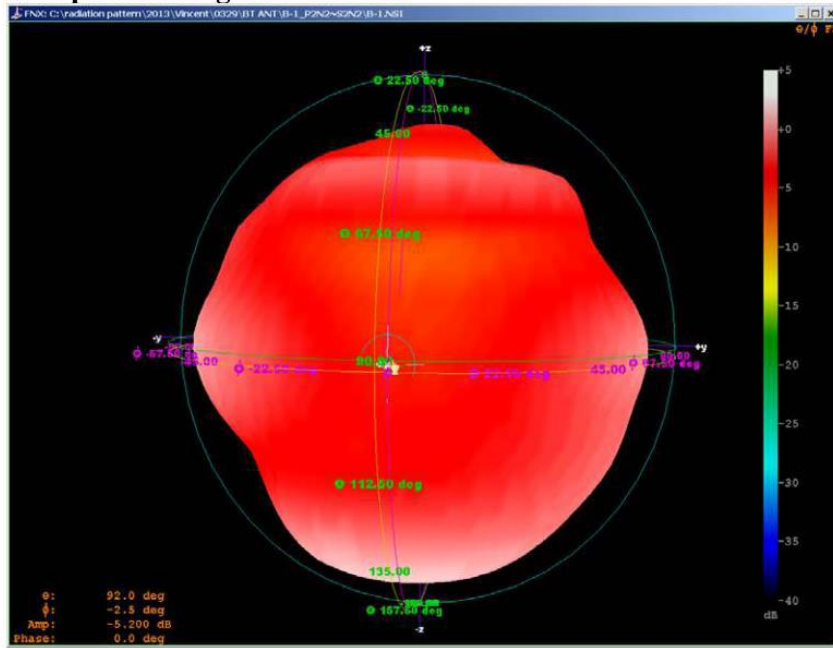
# Return Loss



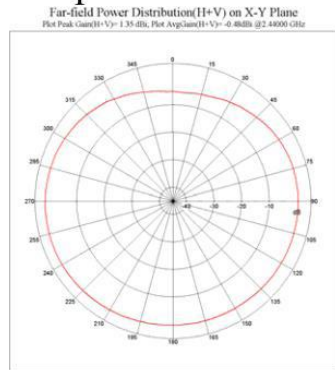
## The Environment of Antenna Radiation Pattern



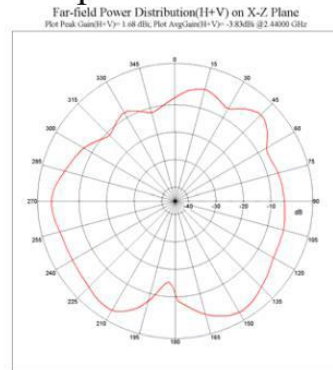
# 3D radiation pattern diagram



## XY-plane



## XZ-plane



## YZ-plane

