

Product specification

	Antenna module on the system board
Frequency Range	2400 ~ 2500 MHz
Ant. Port Input Pwr. (dBm)	0
Tot. Rad. Pwr. (dBm)	-1.2 (Input pwr – loss pwr)
Directivity (dBi)	1 (all direction antenna)
Efficiency (dB)	60.2%
Gain (dBi)	1.9(Avg 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
Manufacturer	Shenzhen Ecatee IoT Technology Co., Ltd.
Manufacturer Address	Room 1608, Yifenghua Building, No. 28, Yifenghua Innovation Industrial Park, Xinshi Community, Dalang Subdistrict, Longhua District, Shenzhen City

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

Antenna Layout & module on the system board

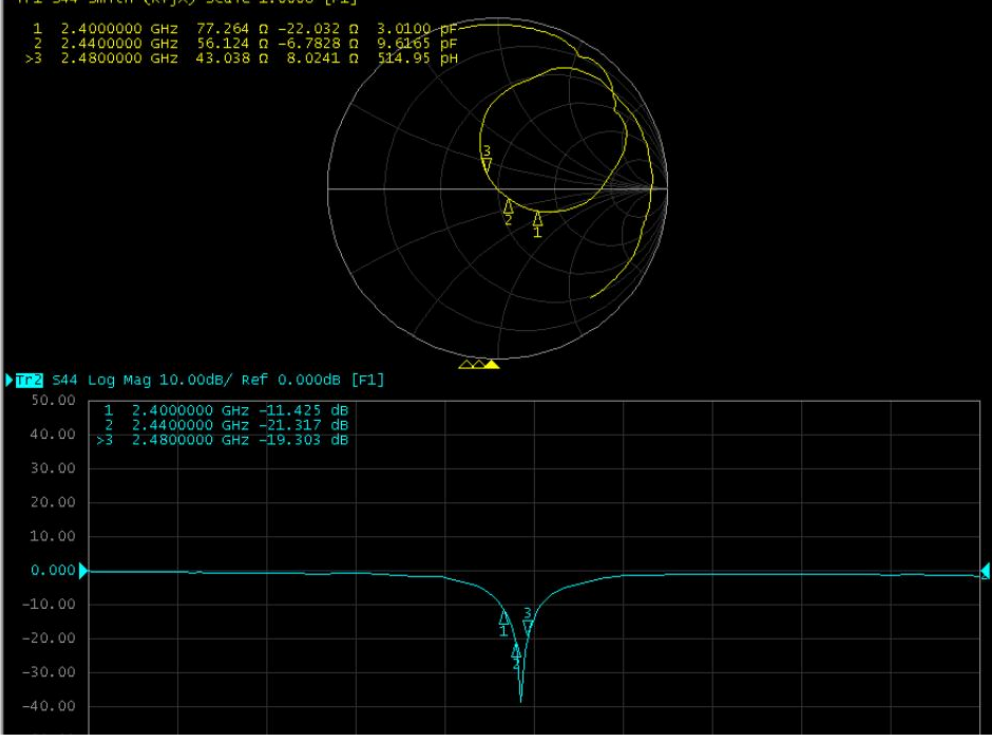


Antenna Gain

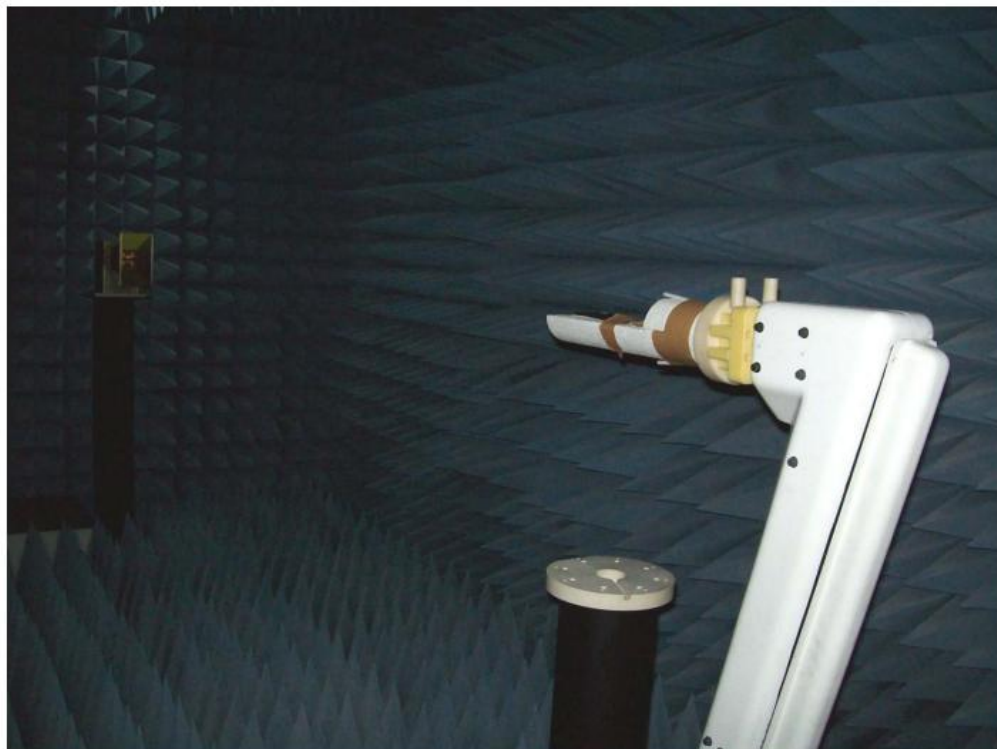
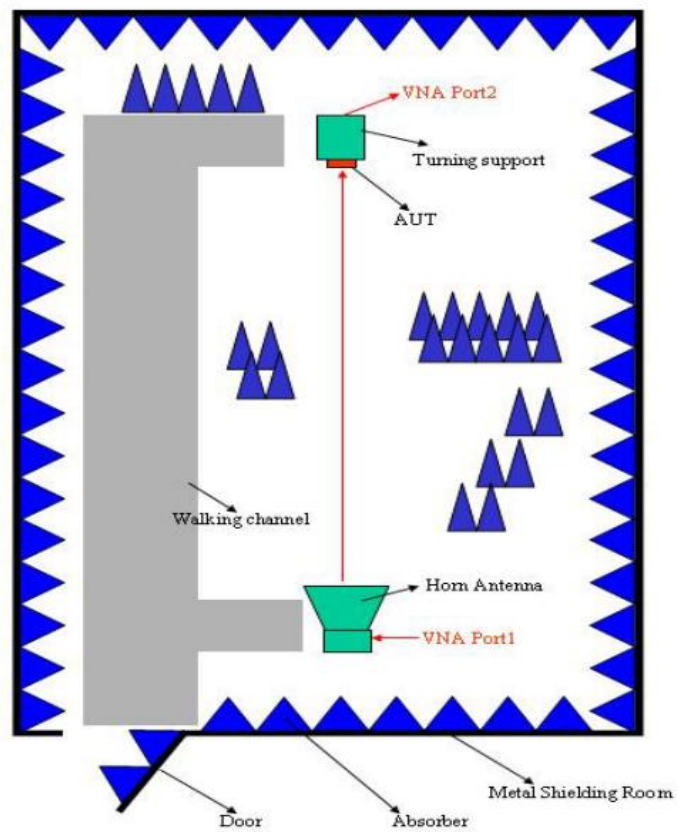
Gain Table

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

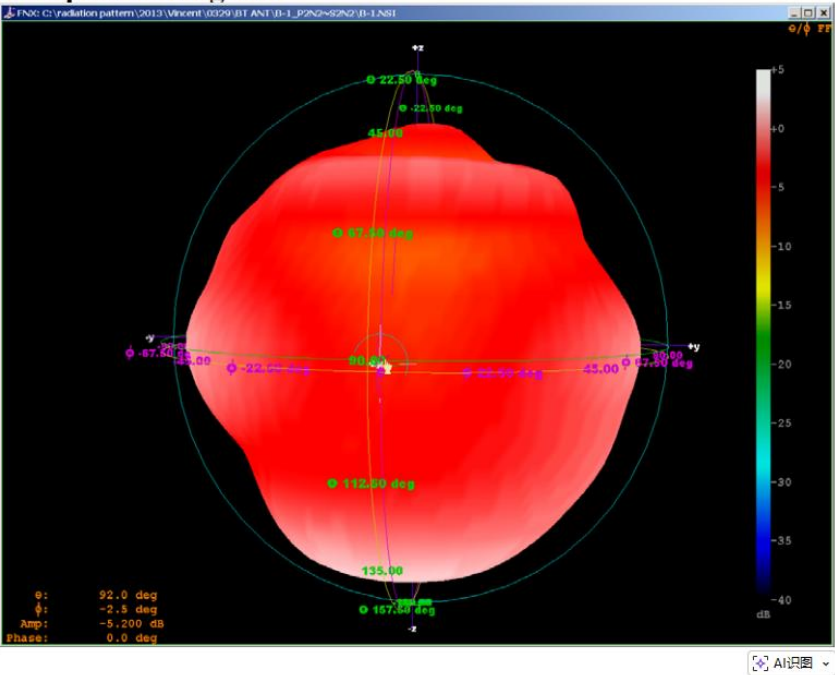
Return Loss



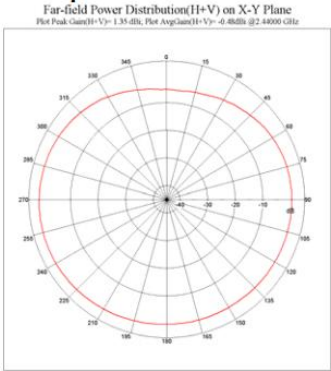
The Environment of Antenna Radiation Pattern



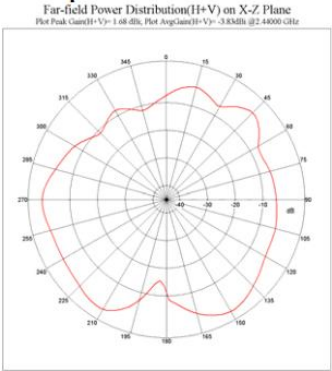
3D radiation pattern diagram



XY-plane



XZ-plane



YZ-plane

