

Manufacturer:
Modern Marketing Concepts, Inc.
Address of Manufacturer:
1220 East Oak Street, Louisville, Kentucky 40204 United States

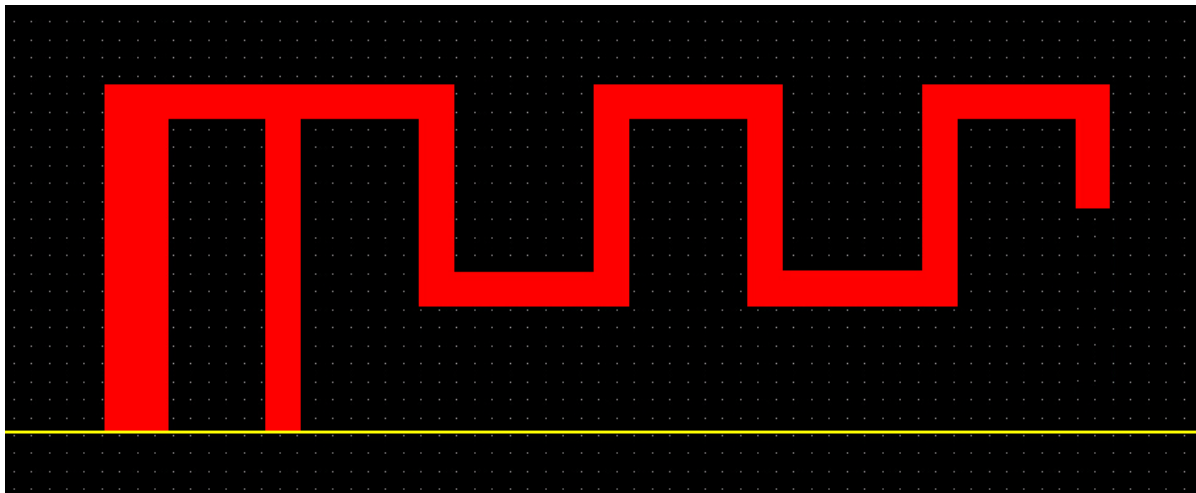
Product specification

Quick Reference Data

Item	Value
Antenna module on the system board	
Frequency Range	2400 ~ 2500 MHz
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 (calculated with declared gain 1.2 dBi)
Directivity (dBi)	3.8
Efficiency (%)	60.2
Peak Gain (Max of all planes) (dBi)	1.68
Declared Gain (for FCC filing) (dBi)	1.2 (Peak Gain XY-plane, conservative)
Max. Radiated Power (dBm)	1.7 (measured peak in XY-plane)
Minimum Power (dBm)	-4 (XY-plane)
Avg. Power (dBm)	-0.5 (XY-plane)
Input Impedance (ohm)	50
Polarization Type	Vertical & Horizontal
VSWR	< 1.4

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

Antenna Layout & module on the system board



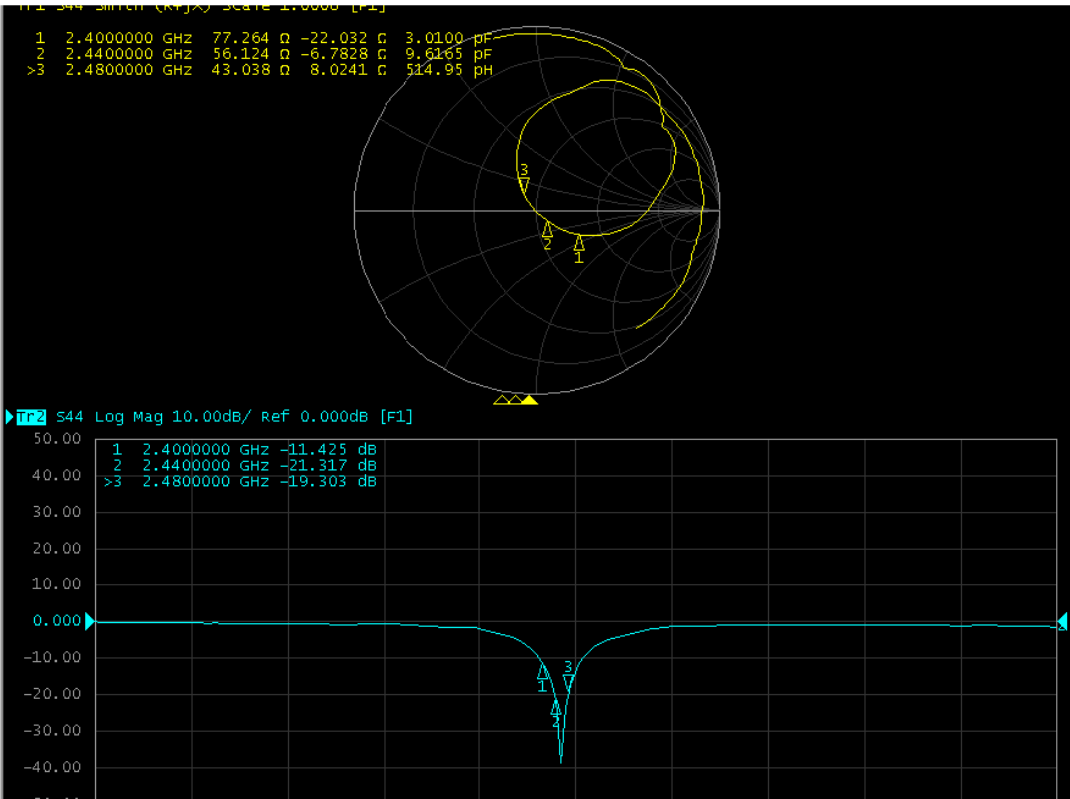
Antenna Gain

Gain Table

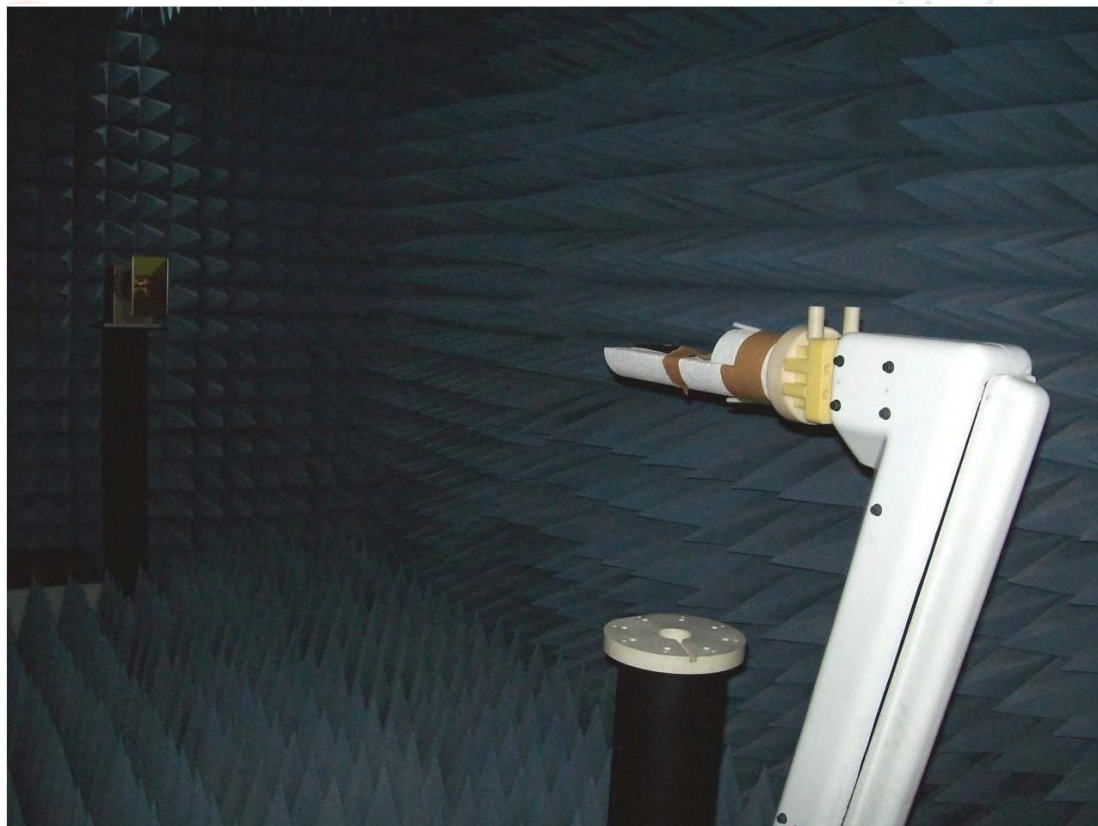
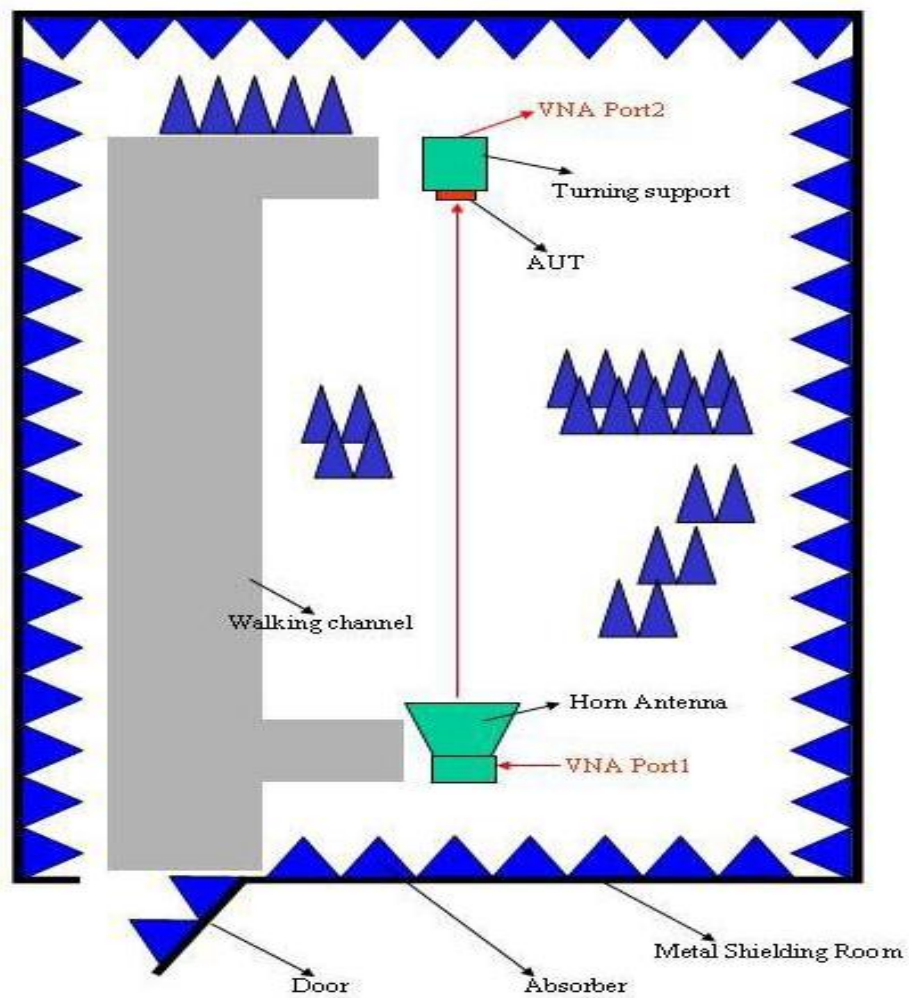
Unit : dBi @2.44GHz	XY-plane		XZ-plane		YZ-plane		Efficiency (%)
	Peak	Avg.	Peak	Avg.	Peak	Avg.	
Module Board	1.2	-0.5	1.68	-3.6	1.1	-3.0	60.2 %

Note: 1.The measured peak gain across all principal planes is 1.68 dBi (XZ-plane, @2.44 GHz).
2.For FCC certification purposes, the declared antenna gain is 1.2 dBi, which corresponds to the peak gain in the XY-plane. This value is adopted as a conservative compliance value for EIRP and SAR calculations.
3.The XY-plane is selected as the reference plane for compliance, as it represents the lowest peak gain among all principal planes and provides the most conservative compliance margin.

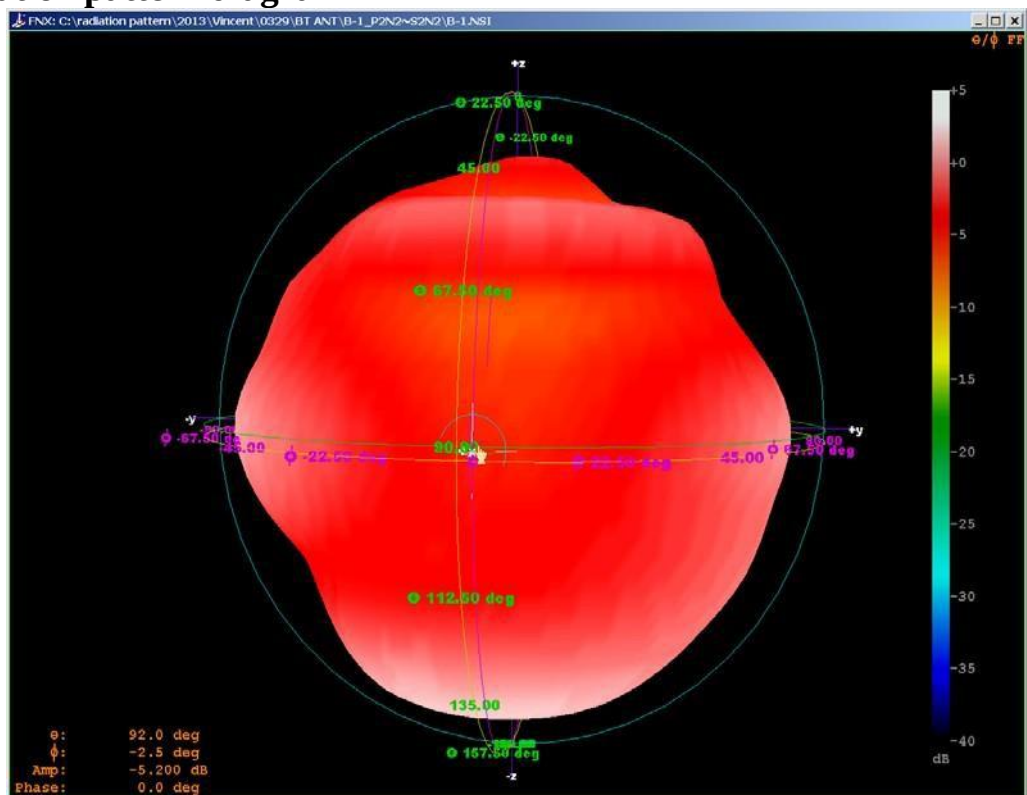
Return Loss



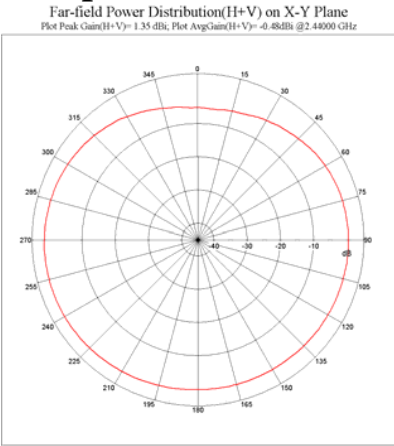
The Environment of Antenna Radiation Pattern



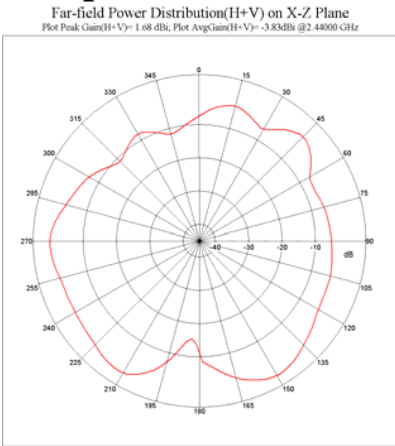
3D radiation pattern diagram



XY-plane



XZ-plane



YZ-plane

