

Specifications

Information on the equipment

product name 产品名称	ColorWav Sound Bar
Brand 品牌	ColorWav Sound Bar
Model No.型号	ColorWav Sound Bar
Manufacturer 生产厂家	E-TRENDS ELECTRONIC CO.,LTD
Equipment type 设备类型	☐ Transmitter 发射 ☐ Receiver 接收 ☒ Transceiver 收发器
Frequency of operation	操作频率 2402MHz-2480MHz
Type of modulation	调试方式 1M 2M 3M
Channel spacing	频道间隔 1MHz
Channel number	频道数 79 个
Mode of operation 工作方式	☐ Simplex 单工 ☒ Duplex 双工
Antenna type	天线类型 1/4 波长的折叠型天线
Antenna connector	天线连接 IC 内置
Operating voltage	工作电压 3.3V-4.3V

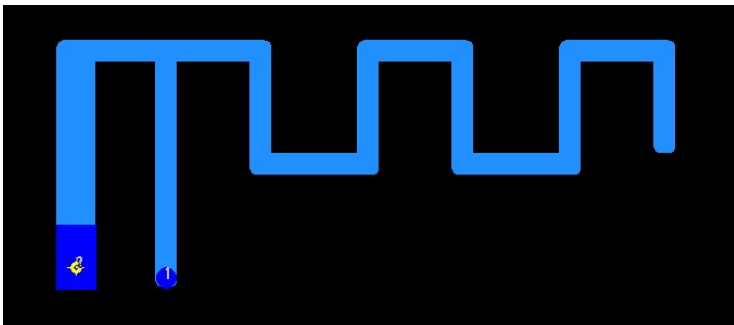
Product specification

Quick Reference Data

	Antenna module on the system board	
Frequency	2.45GHz ^{*1}	
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)	1.7 (Peak Gain XY-plane)	
Maximum Power (dBm)	1.3 (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

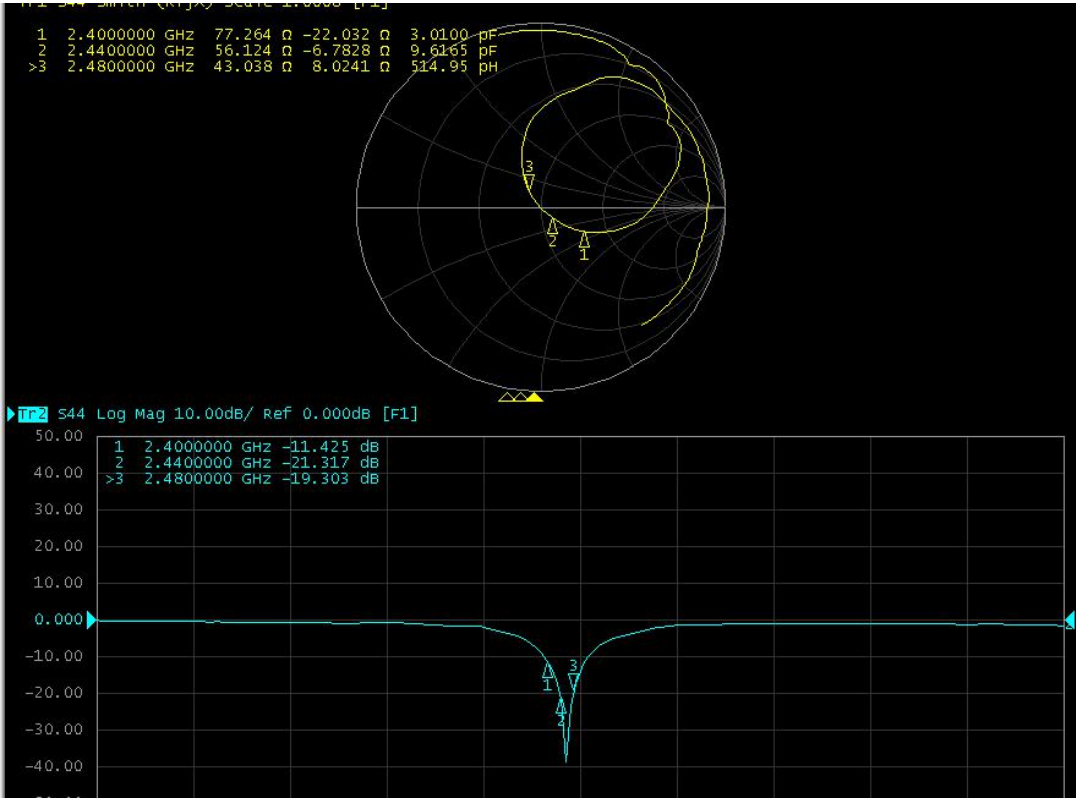


Antenna Gain

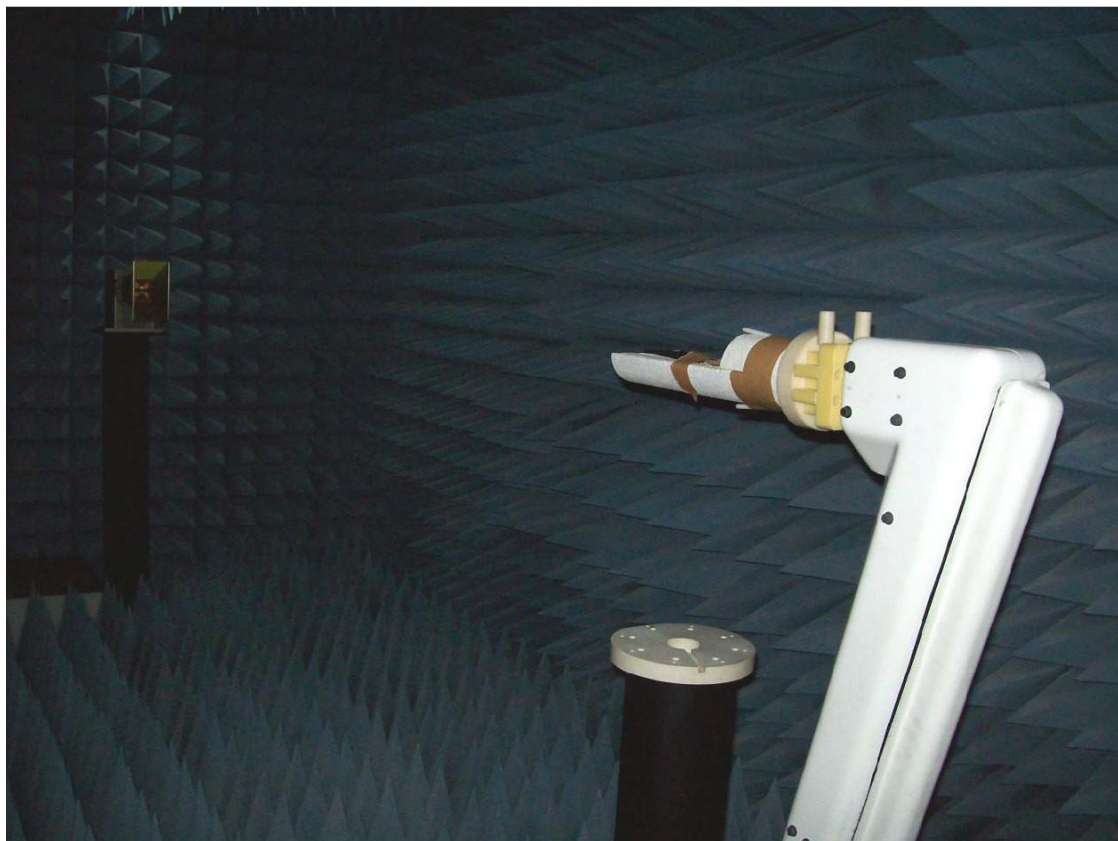
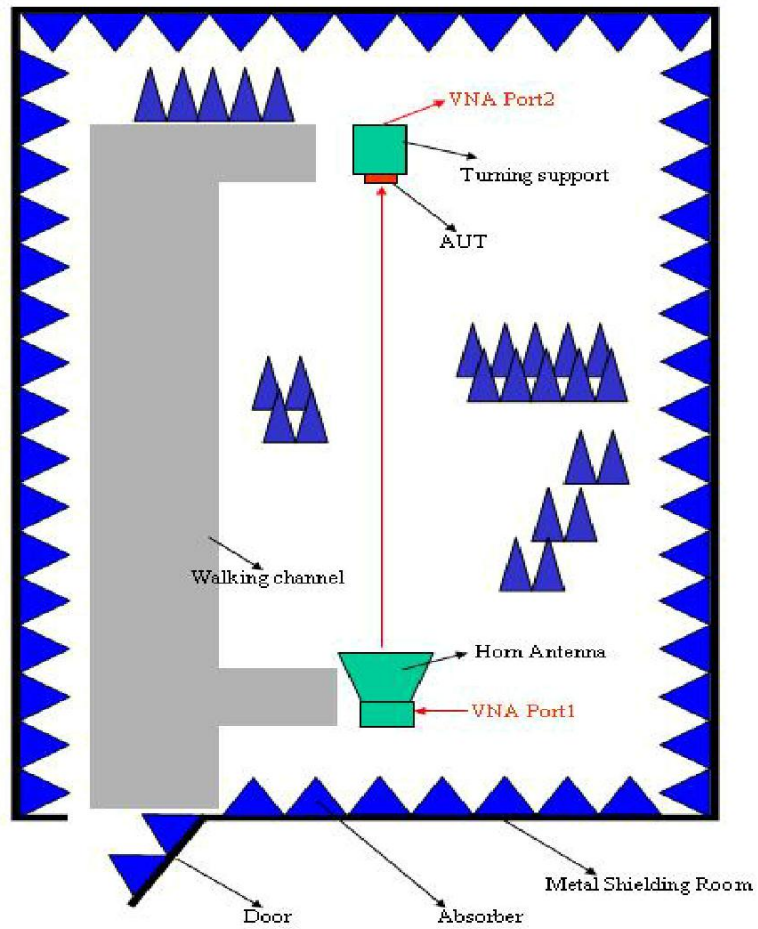
Gain Table

Unit in dBi @2.44GHz	XY-plane		XZ-plane		YZ-plane		Efficiency
	Peak	Avg.	Peak	Avg.	Peak	Avg.	
Module Board	1.3	-0.5	1.7	-3.8	1.1	-3.0	58.5%

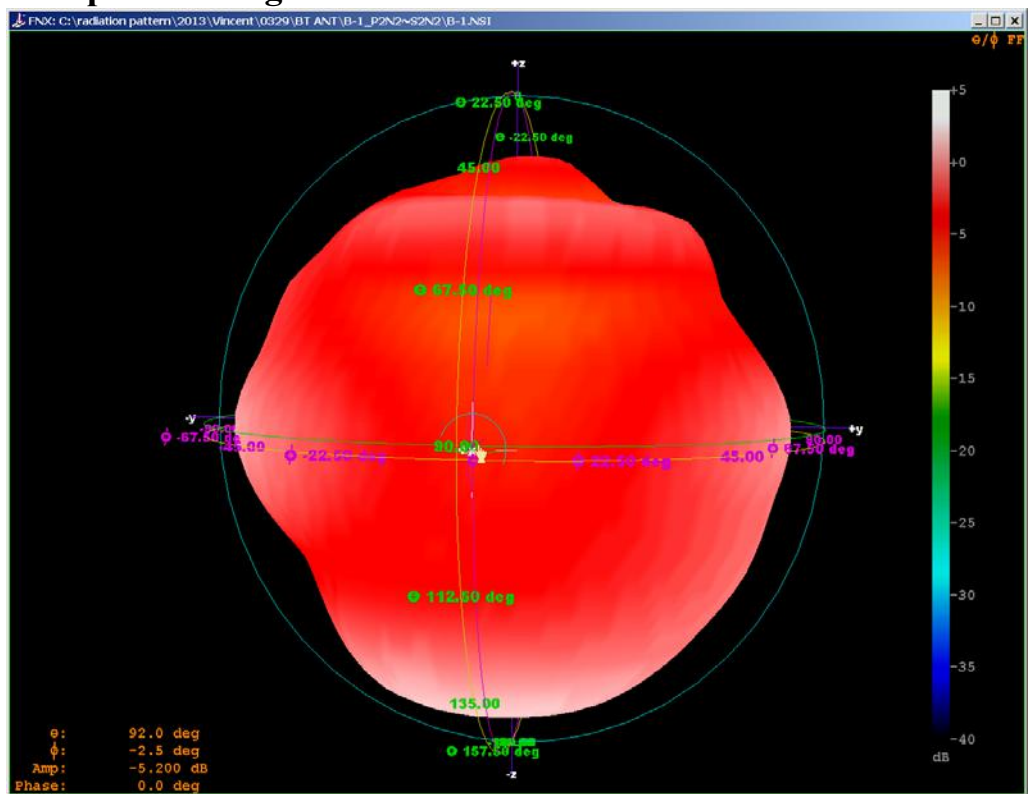
Return Loss



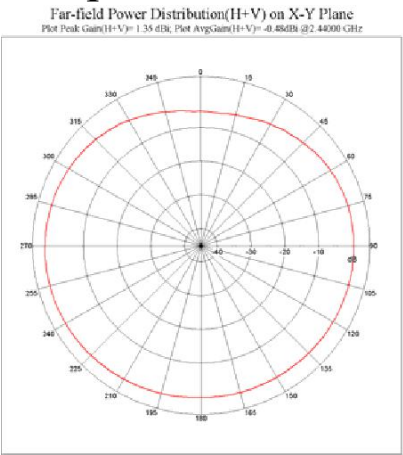
The Environment of Antenna Radiation Pattern



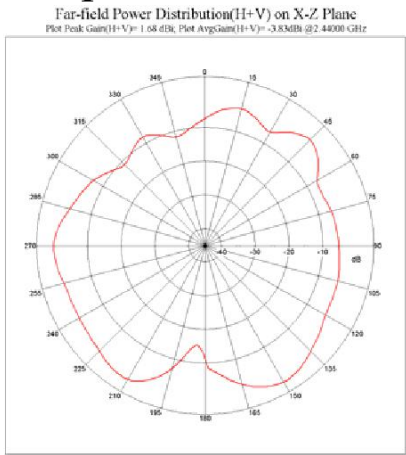
3D radiation pattern diagram



XY-plane



XZ-plane



YZ-plane

