

TECHNICAL SPECIFICATION

CUSTOMER:

DESCRIPTION:

Bluetooth antenna

CUSTOMER P.N:

PART NO:

MODEL No:

APW-FM50-001B

REVISION No:

SPECIFICATION No:

PREPARED DATE:

2023/03/25

**CUSTOMER AUTHORIZED
SIGNATURE**

PROVIDER SIGNATURE

PREPARED

CHECKED

APPROVED

PREPARED

CHECKED

APPROVED

INSP.EC.RESULT: ☐ ACCEPT ☐ REJECT

Please return to us one copy of "SPECIFICATION FOR APPROVAL" with you approved signature.

Shenzhen KunHong Intelligent Electronics Co., Ltd

Whole floor 501, 601, Building 29, Cui gang Industrial Area 5, Huide Community, Fuyong Street, Bao'an District, Shenzhen

TEL: +86 0755 33228998

FAX:

http://

EML:

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Product specification

Quick Reference Data

	Antenna module on the system board	
Frequenc Range	2400 ~ 2500MHz	
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)	1.9	
Directivity (dBi)	1 (all direction antenna)	
Efficiency (dB)	6 0.2 %	
Gain (dBi)	1.9	
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

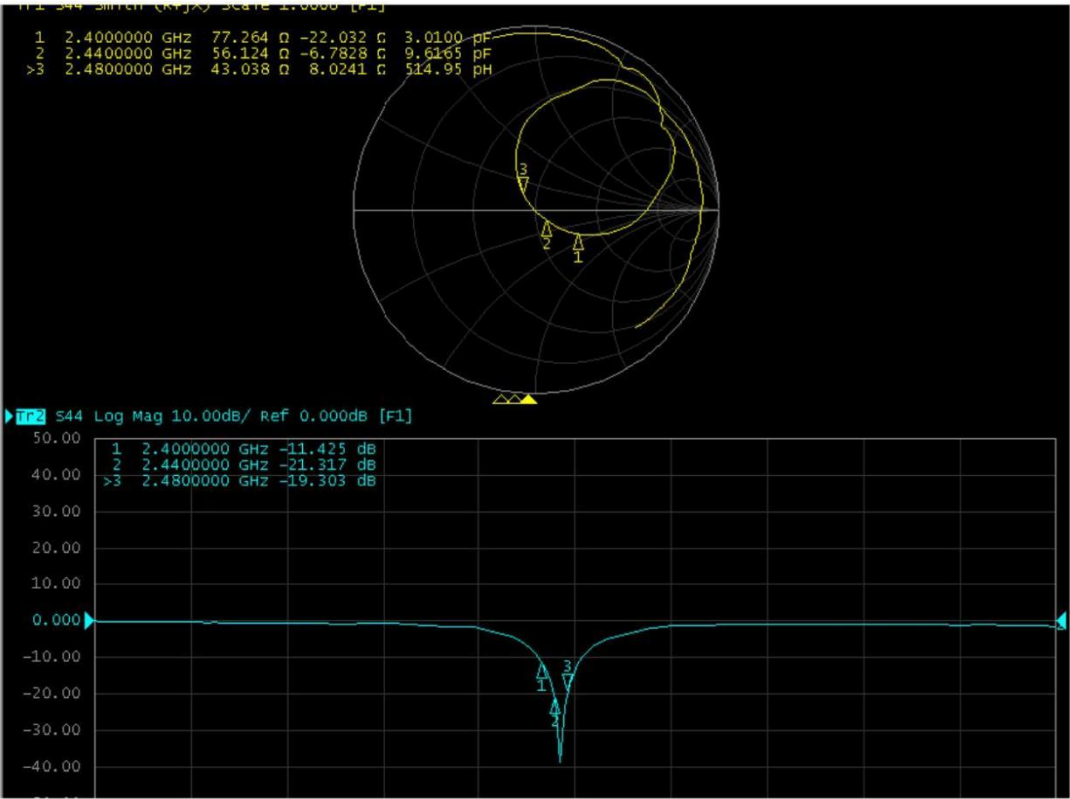


Antenna Gain

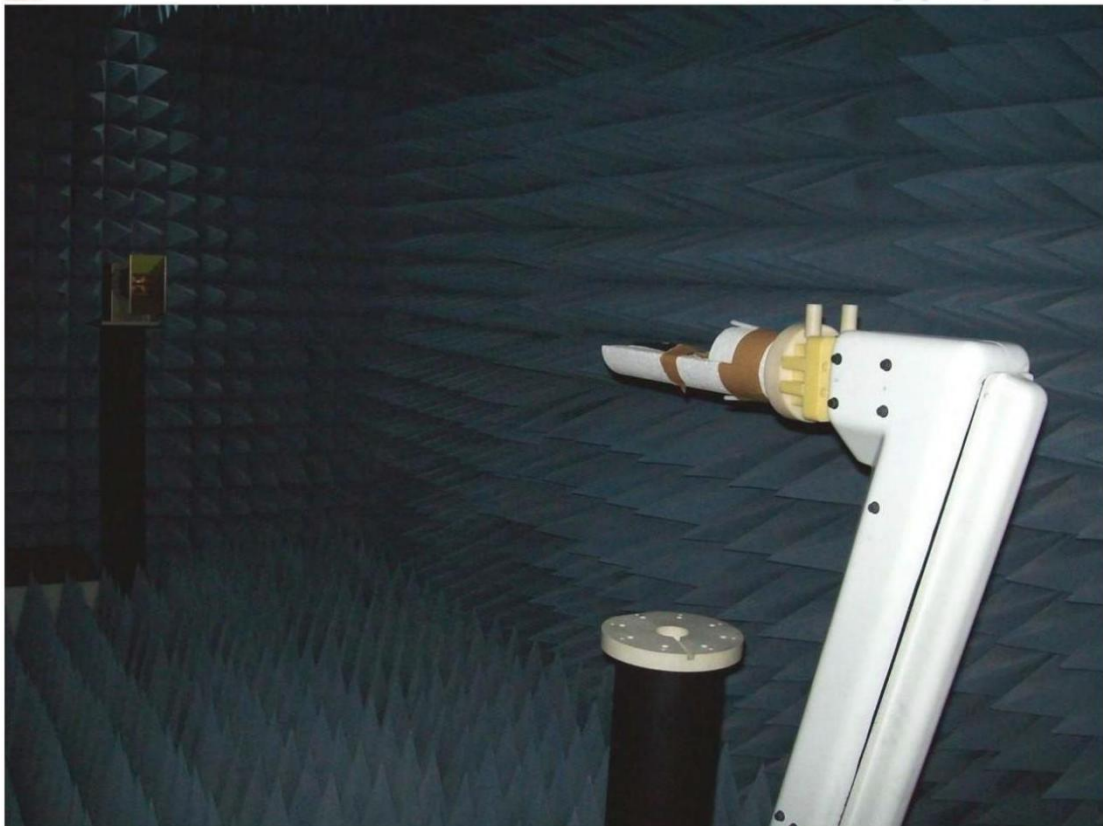
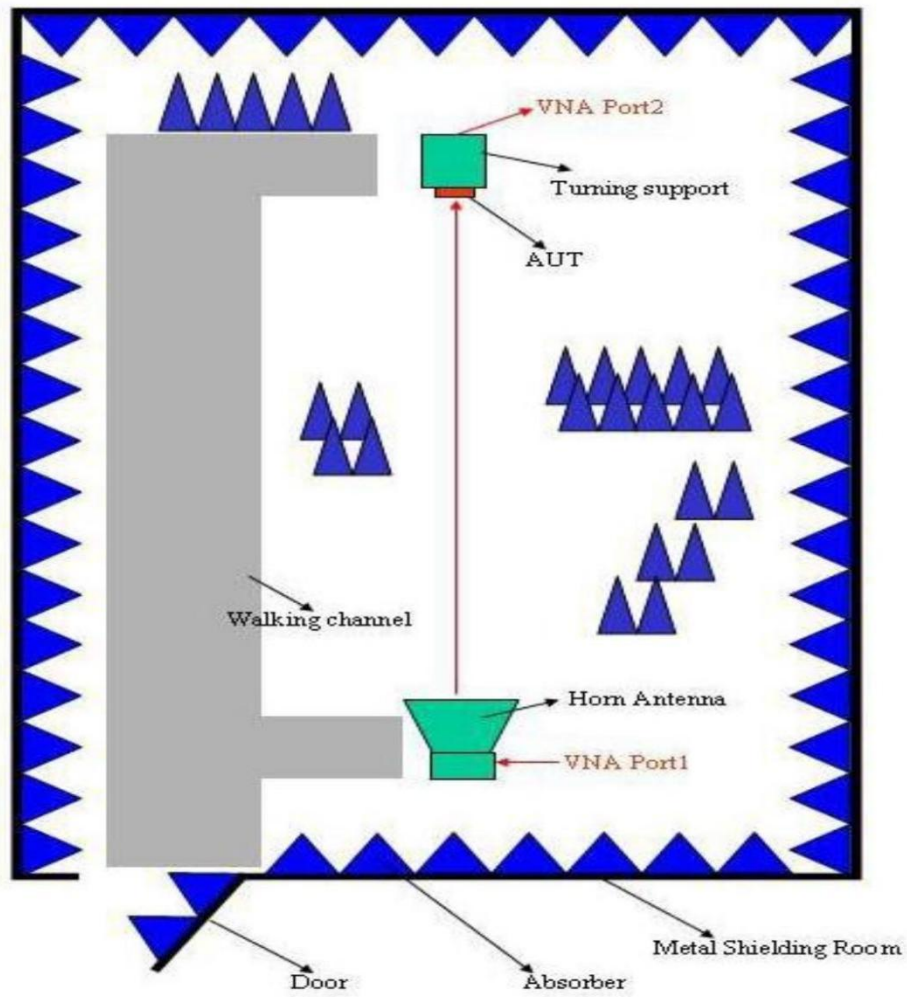
Gain Table

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	6 0.2 %

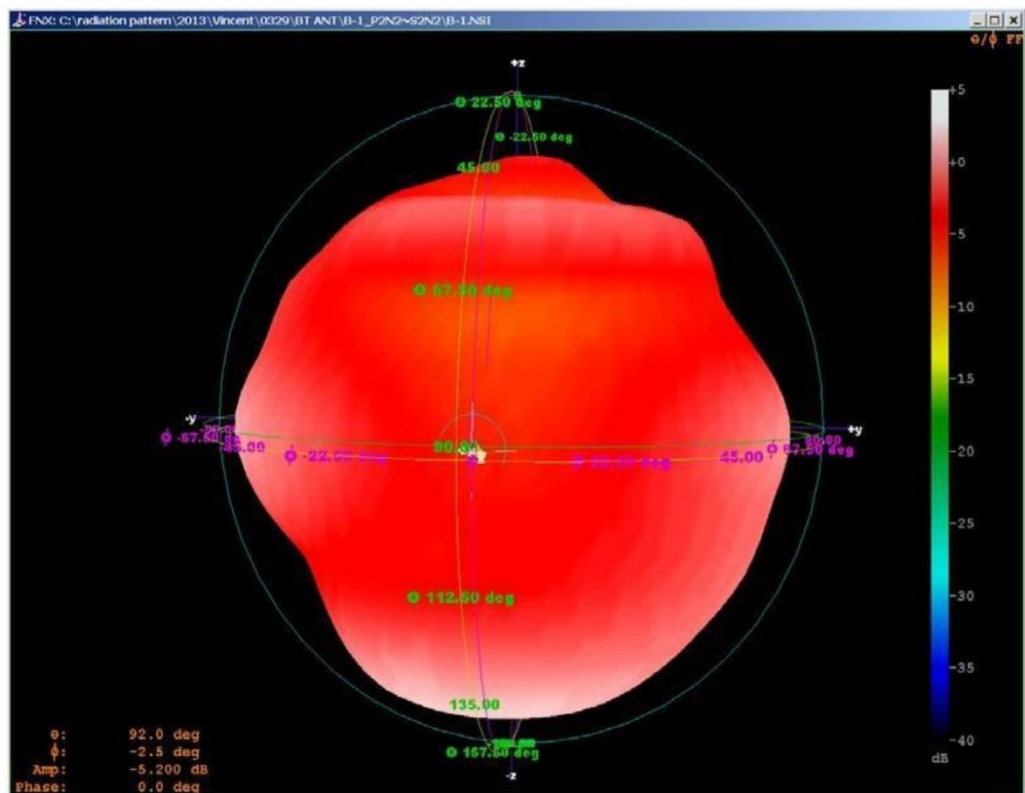
Return Loss



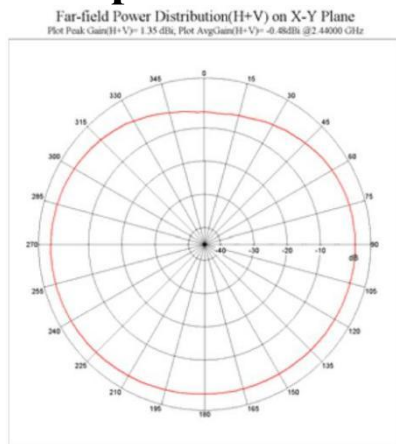
The Environment of Antenna Radiation Pattern



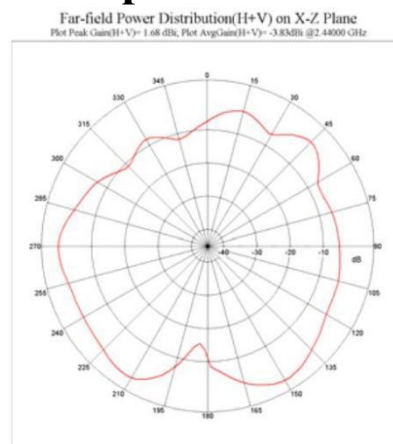
3D radiation pattern diagram



XY-plane



XZ-plane



YZ-p

