深圳市拓频物联技术有限公司
SHENZHEN FREQUENCV EXTENSION IOT TECHNOLOGY CO.,LTD.

Product specification

Quick Reference Date

	Antenna module on the system board	
Antenna type	conductor barrel	
Antenna dimension	25mm*0.5mm	
Frequency	2.45GHz*1	
Ant. Port Input Pwr. (dBm)	0(lyp. BT class 2 oulput power)	
Tot. Rad.Pwr. (dBm)	-2.3(Input pwr ?loss pwr)	
PeakEIRP(dBm)	1.3	
Directivity (dBi)	(all direction antenna)	
Efficiency (dB)	-9.5(11.06%)	
Gain (dBi)	-2.16 (Peak Gain X Z-plane)	
Maximum Power (dBm)	0.6(XY-plane)	
Minimum Power (dBm)	6.1(XY-plane)	
Avg. Power (dBm)	-1.4(XY-plane)	
Max/Min Ratio (dB)	3.1(XY-plane)	
Max/Avg Ratio(dB)	0.5(XY-plane)	
Min/Avg Ratio(dB)	4.7XY-plane)	
Average Gain (dB)	-1.2(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

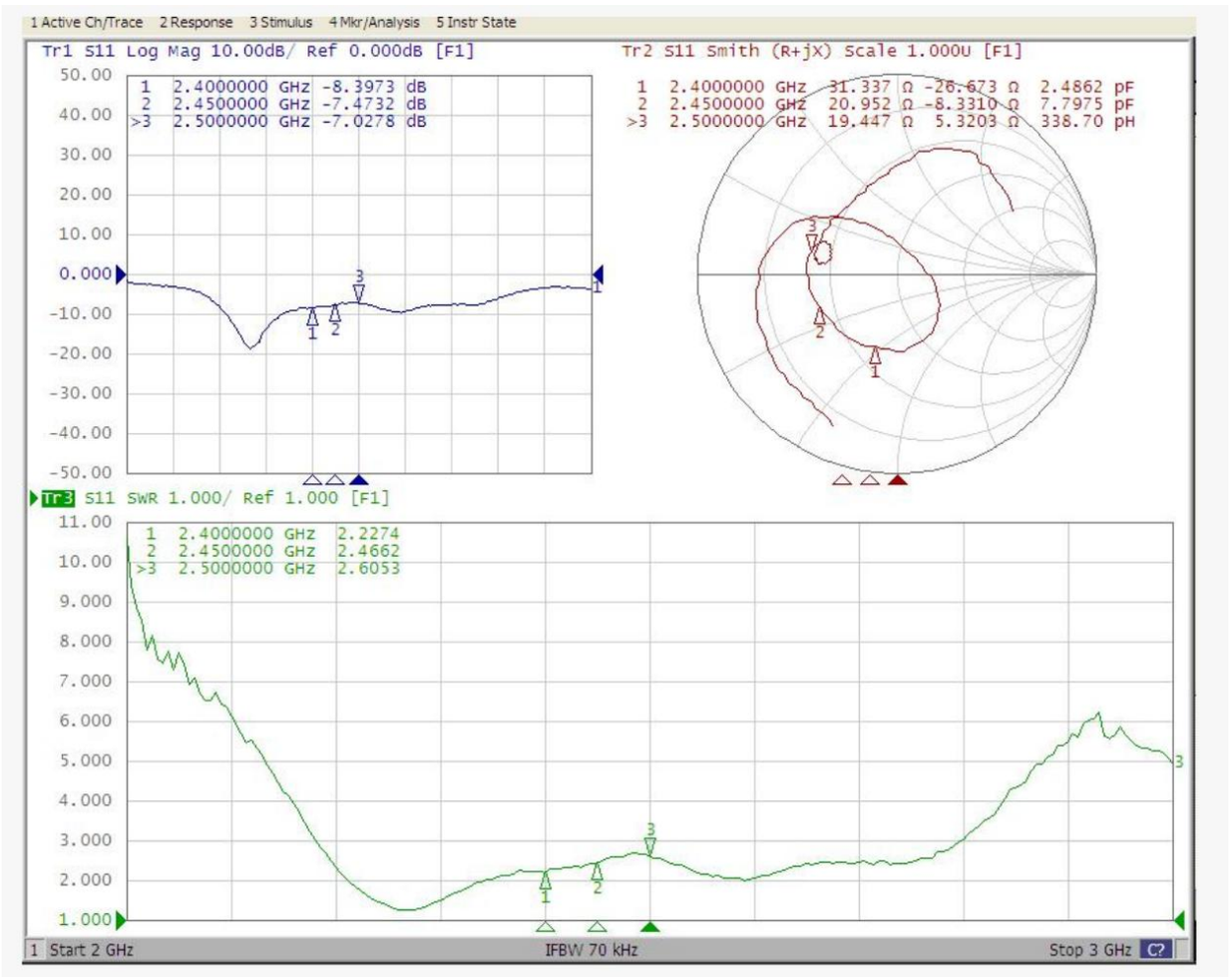
Antenna Gain

Gain Table

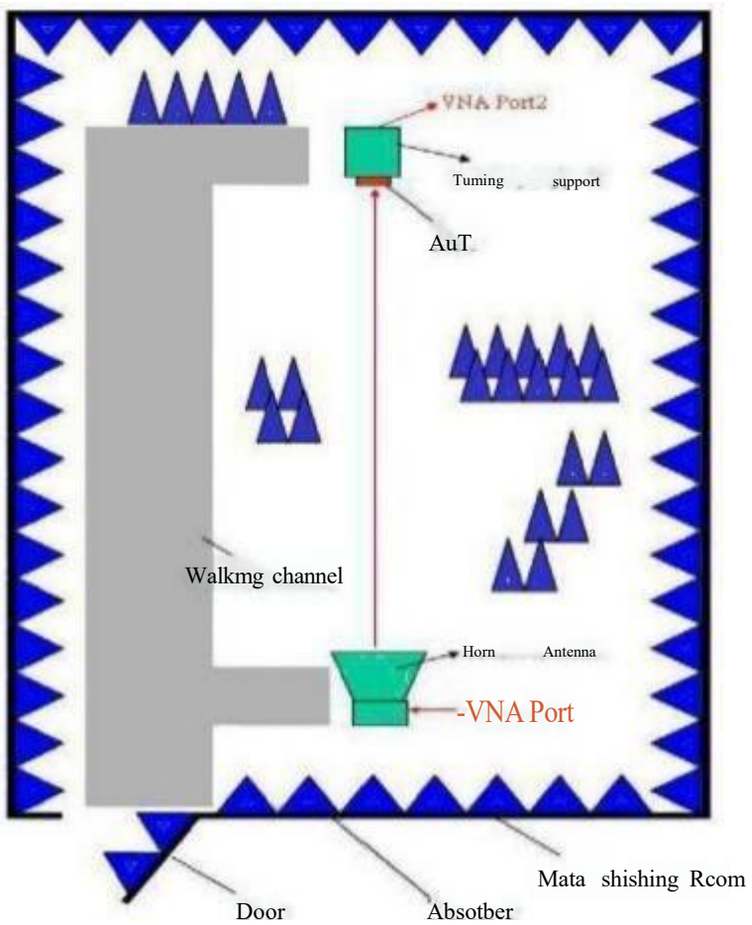
UnitindBi@2.44GHz	XY-plane		XZ-plane		YZ-plane		Efficiency
	Peak	Avg.	Peak	Avg.	Peak	Avg.	
Module Board	-4.89	-5.87	-2.16	-4.4	-2.56	-4.9	12.8%

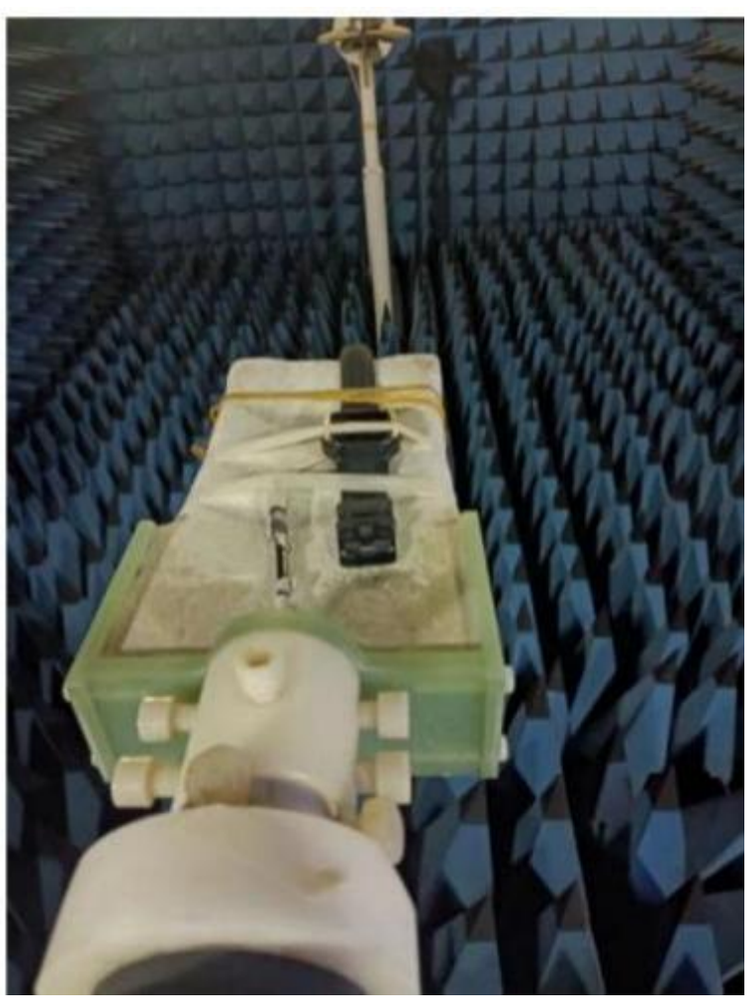
ReturnLoss

12.4000000 GHZ 77.264 Ω-22:032 Q 3.0100
22.4400000 GH256.1240-6.782809.5165
>32.4800000 GHZ 43.03808.0241 514. 95

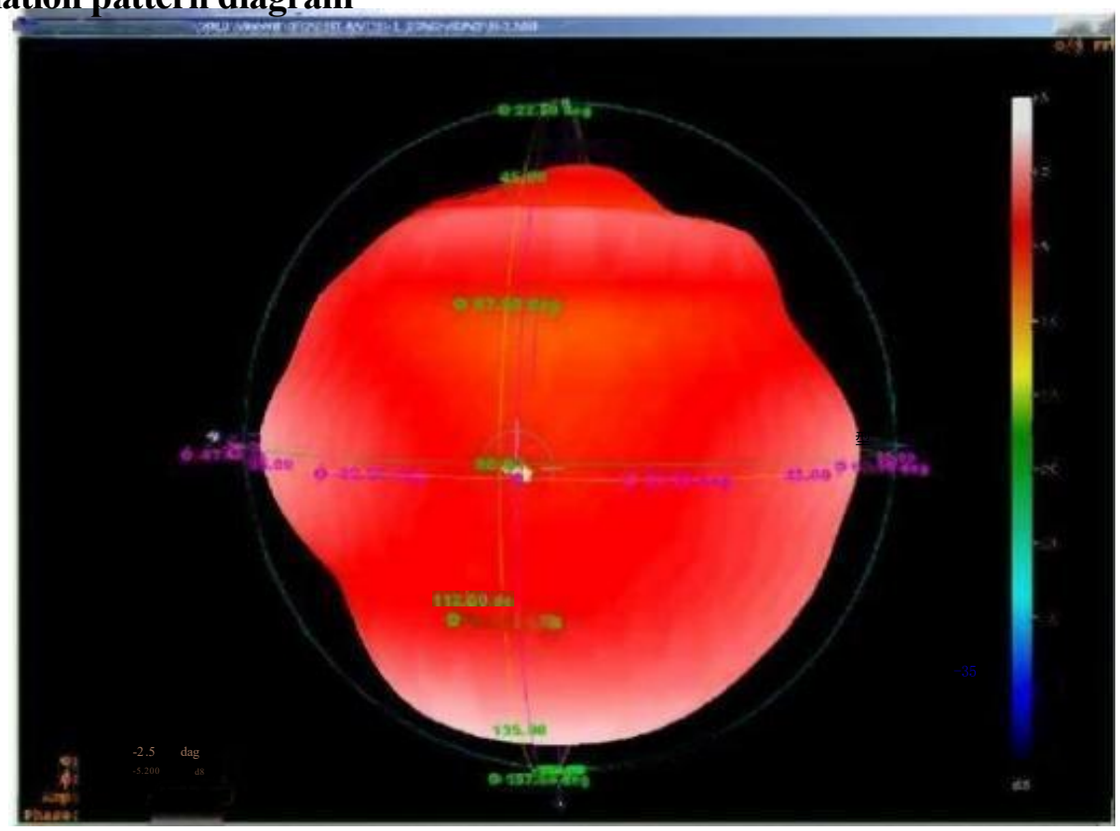


The Environment ofAntenna Radiation Pattern





3D radiation pattern diagram



XY-plane

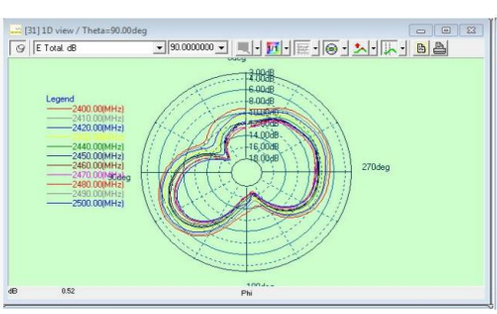
l-ar-lidd 1 ^werl)ithbuEioll(11+V>on X-Y Plane

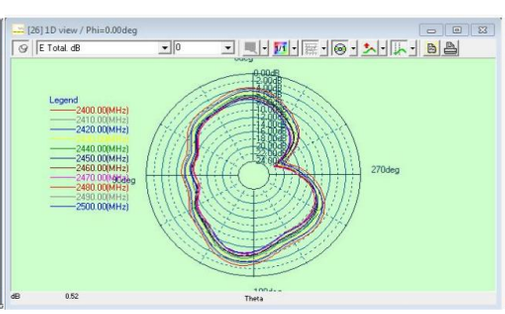
XZ-plane

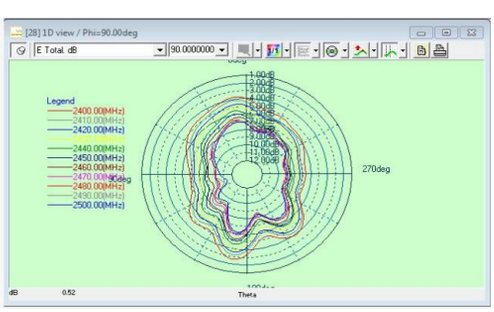
Moa peak kanarvrtoediipin 30324K₀0GHz

YZ-plane

PakGwHH,V>-"IdBi; PIM AvffM | |6 • 2-WdBi◎24K00<31z







EUT (antenna) setup close-up view

Antenna:Length:2.5CM width:0.22MM