



Antenna Test Report

Customer :	Ninesence
Project :	sparkrider
Product :	Bluetooth Antenna
Date	20260619
Manufactuter	Ninesence (Shenzhen) Technology Co., Ltd.
Applicant	618, Building 15, Majialong, No. 47 Hongbu Road, Majialong Community, Nantou Street, Nanshan District, Shenzhen, China



Antenna Test Report

Test Setup for Radiation Pattern Measurement

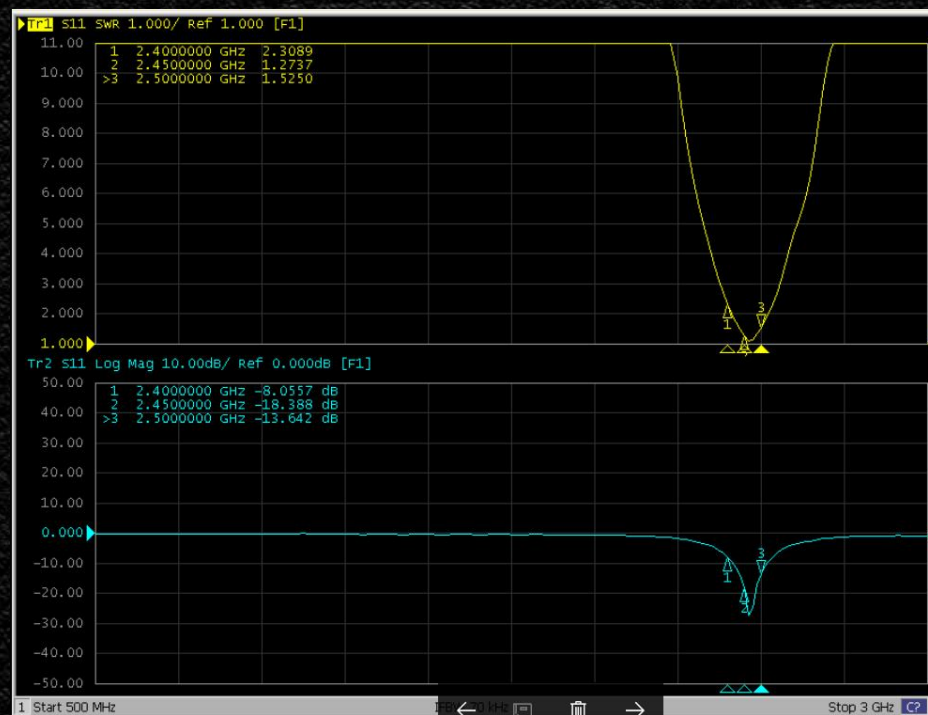


Equipment	Brand	Module Type
Network Analyzer	keysight	5071c (100K-8.5G)
Signal Generator	R&S	CMW500
Signal Generator	Agilent	E4438C
3D Anechoic chamber	General Test	RayZone 2800



Antenna Test Report

VSWR Results



	Frequency (MHz)	2400	2450	2500
BT	VSWR	2.3	1.2	1.5



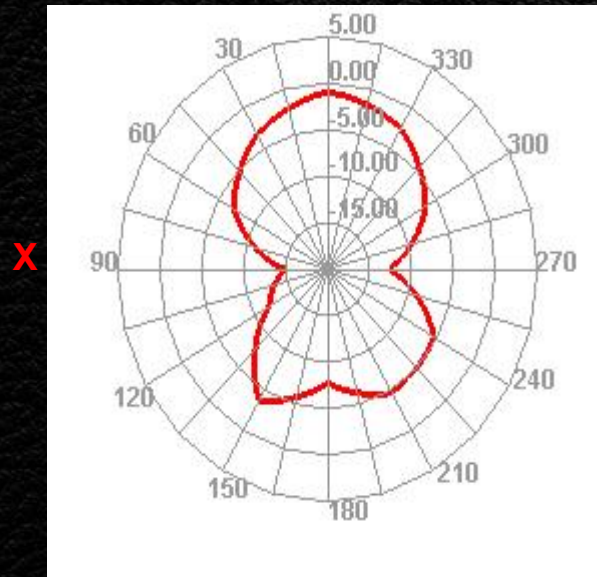
Antenna Test Report

2D Radiation Pattern Results

BT @ 2450MHz (Free Space)

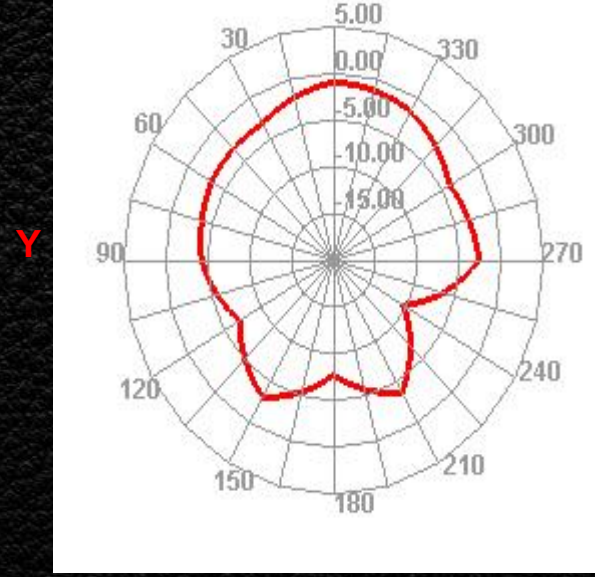
XZ-plane

Z



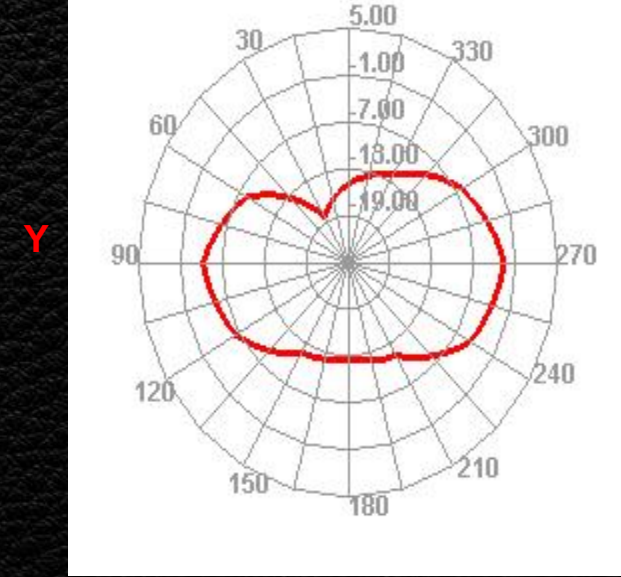
YZ-plane

Z



XY-plane

X



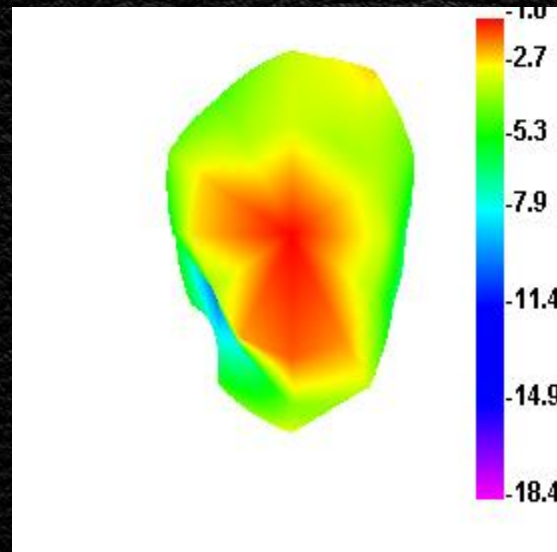


Antenna Test Report

3D Radiation Pattern Results

BT @2450MHz (Free Space)

BT





Antenna Test Report

Results Summary

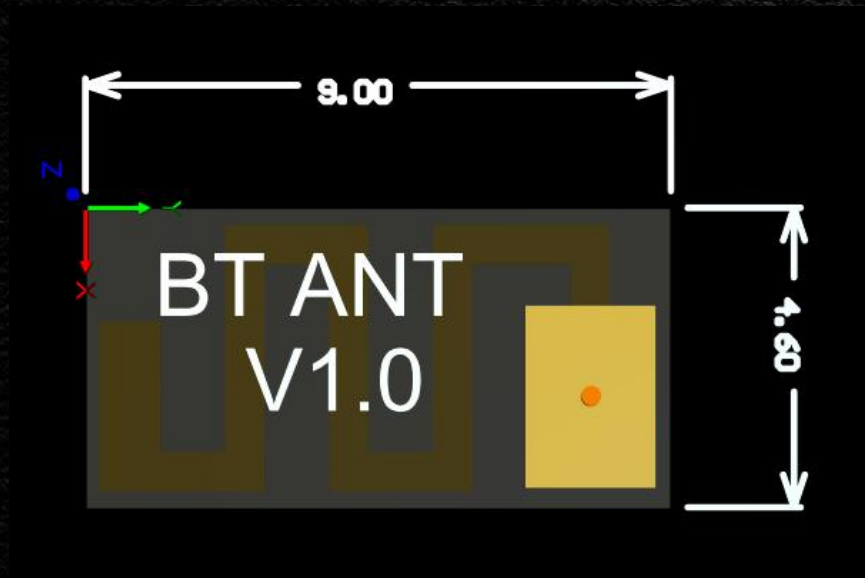
Gain & Efficiency (Free Space)

Frequency (MHz)	BT	
	Peak Gain (dBi)	Efficiency (%)
2400	-3.72	13.92
2410	-3.61	14.44
2420	-3.54	14.82
2430	-3.44	15.21
2440	-3.43	15.26
2450	-3.46	15.46
2460	-3.54	15.57
2470	-3.65	15.58
2480	-3.73	15.53
2490	-3.83	15.19
2500	-4.01	14.31



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ANT picture



Size chart



Picture



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THANK YOU !

