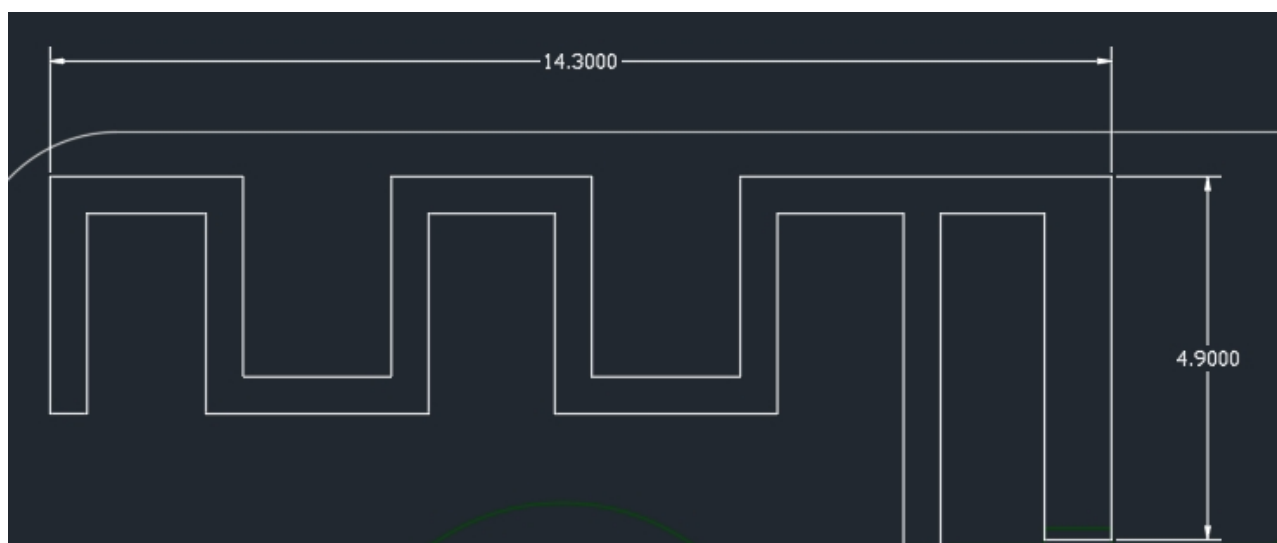




SA1 antenna specification

Description	
Project Name	SA1
Operation Band	Bluetooth
Frequency	2400MHz-2500MHz
Gain	-1.2dBi
Antenna Type	PCB
Testing Equipment	
VNA	E5071C
Chamber	Guangping Chamber system
Time	2024-7-19

1 Antenna patern Unit: mm



2. Passive data

2.1 S11

Fre(MHz)	2400	2450	2500
Result(dB)	-18	-23	-11

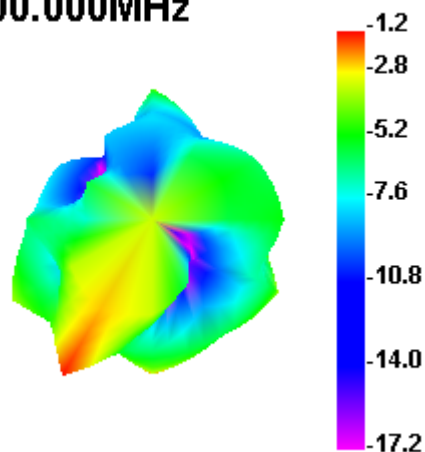
2.2 Efficiency & Gain

Fre (MHz)	Eff (%)	Eff (dB)	Gain (dBi)
2400	22.71	-6.44	-1.2
2410	20.3	-6.93	-1.86
2420	19.89	-7.01	-2.23
2430	21.22	-6.73	-2.1
2440	20.44	-6.9	-2.35
2450	21.21	-6.73	-2.22
2460	18.77	-7.26	-2.93
2470	16.46	-7.84	-3.4
2480	17.22	-7.64	-3.11
2490	20.34	-6.92	-2.45
2500	17.96	-7.46	-2.97

2.3 Radiation Pattern Unit: dBi

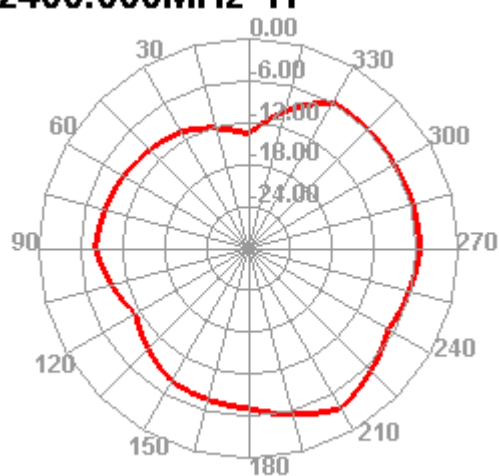
3D pattern

2400.000MHz



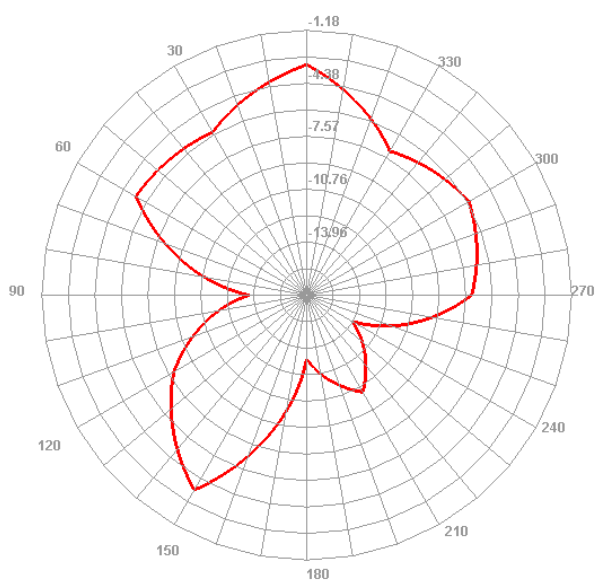
H-plane

2400.000MHz H



E1-plane

2400.000MHz E1



E2-plane

2400.000MHz E2

