



OSM GROUP

Soundgarden Antenna specification

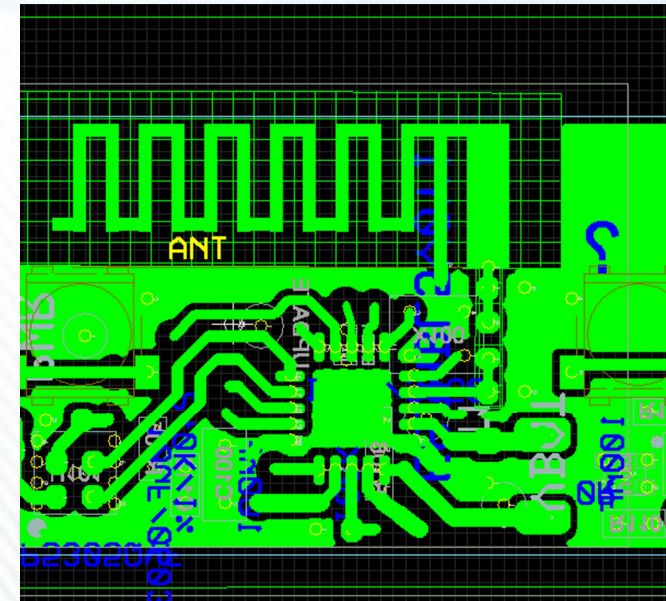
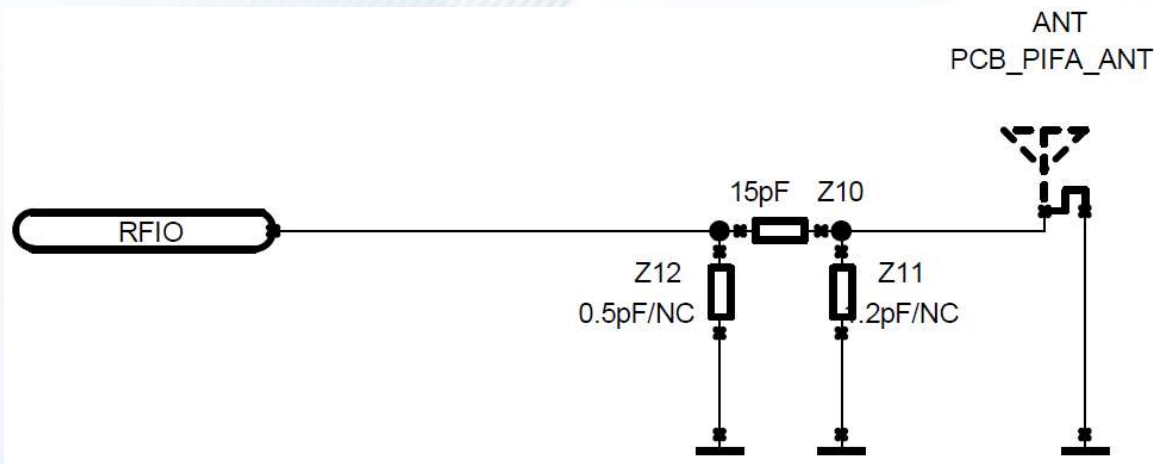
2025-11-12

Revision	Date	Author	Change Description	Approved By
01A	2025-11-12	Wilson	Initial draft	

Table of Contents

- 1. Antenna type and gain
- 2. Antenna VSWR.

1.Type , sizes , material and Antenna Gain



ANT Mode: ANT Mode 2.45GHz BT ANT

ANT Type: PCB ANT (meander line antenna)

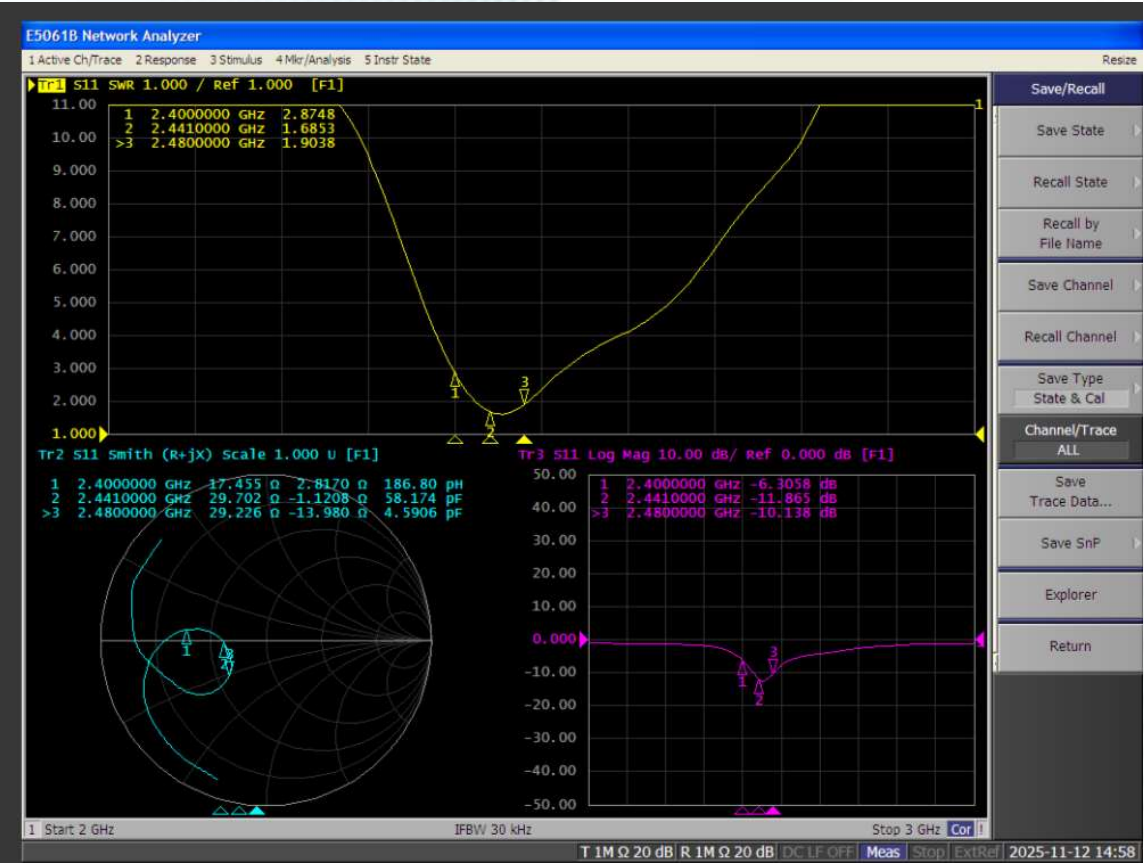
ANT Gain: 0 dBi

Measure: 11.2x3.6mm

Factory: Shenzhen Sun&Lynn Group

Address: Floor1 to Floor 3 of No.4 workshop,Xinda Industry Zone,Heyi Community,Shajing Sub-district,Baoan District,Shenzhen City,Guangdong Province ,P.R.China

2. Antenna VSWR , return lose test and TX power table

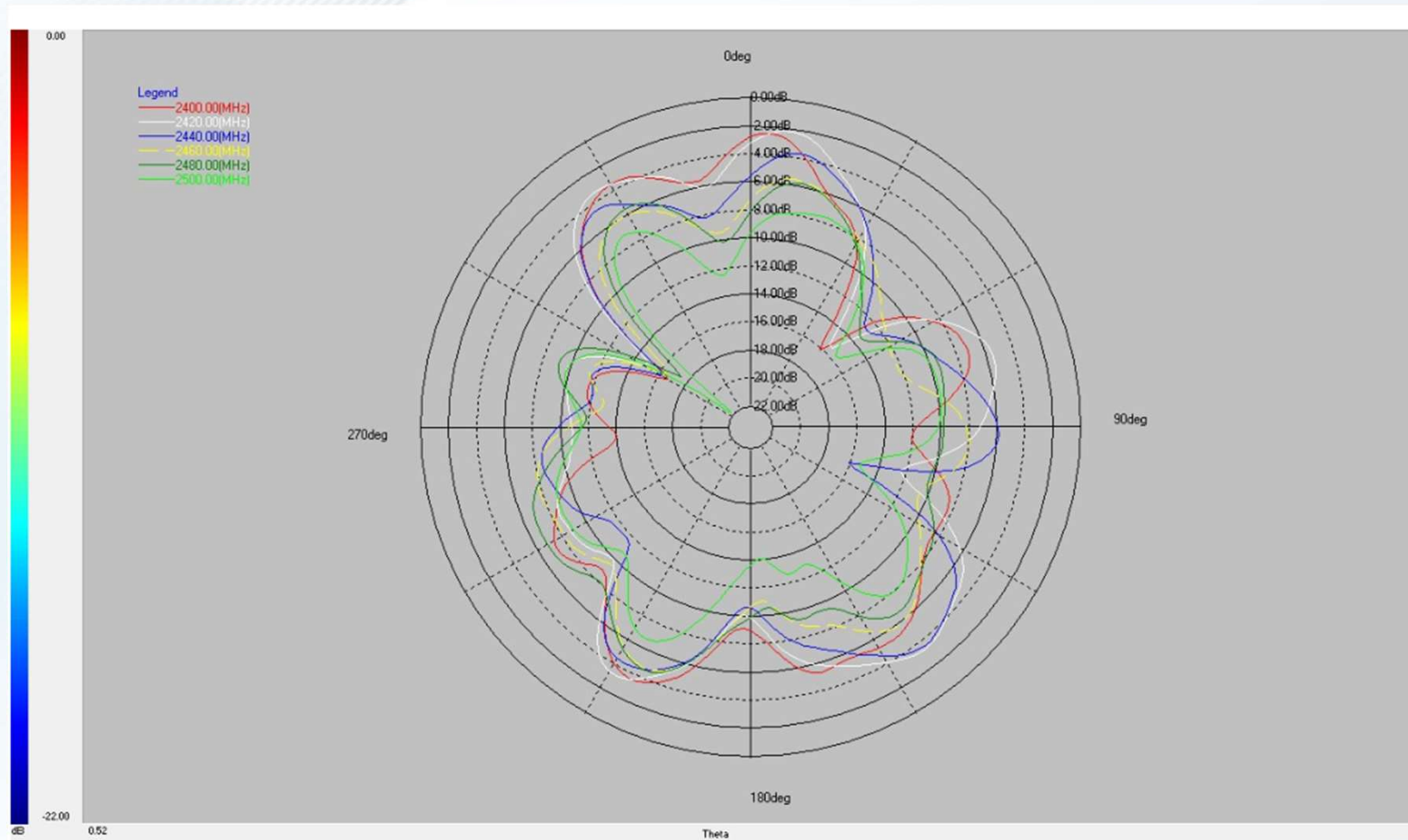


S11 VSWR	VSWR<2	1.68
S11 Return loss	Return loss<-10dB	-11.865dB
S11 SMITH		

3. Antenna Efficiency , Gain table

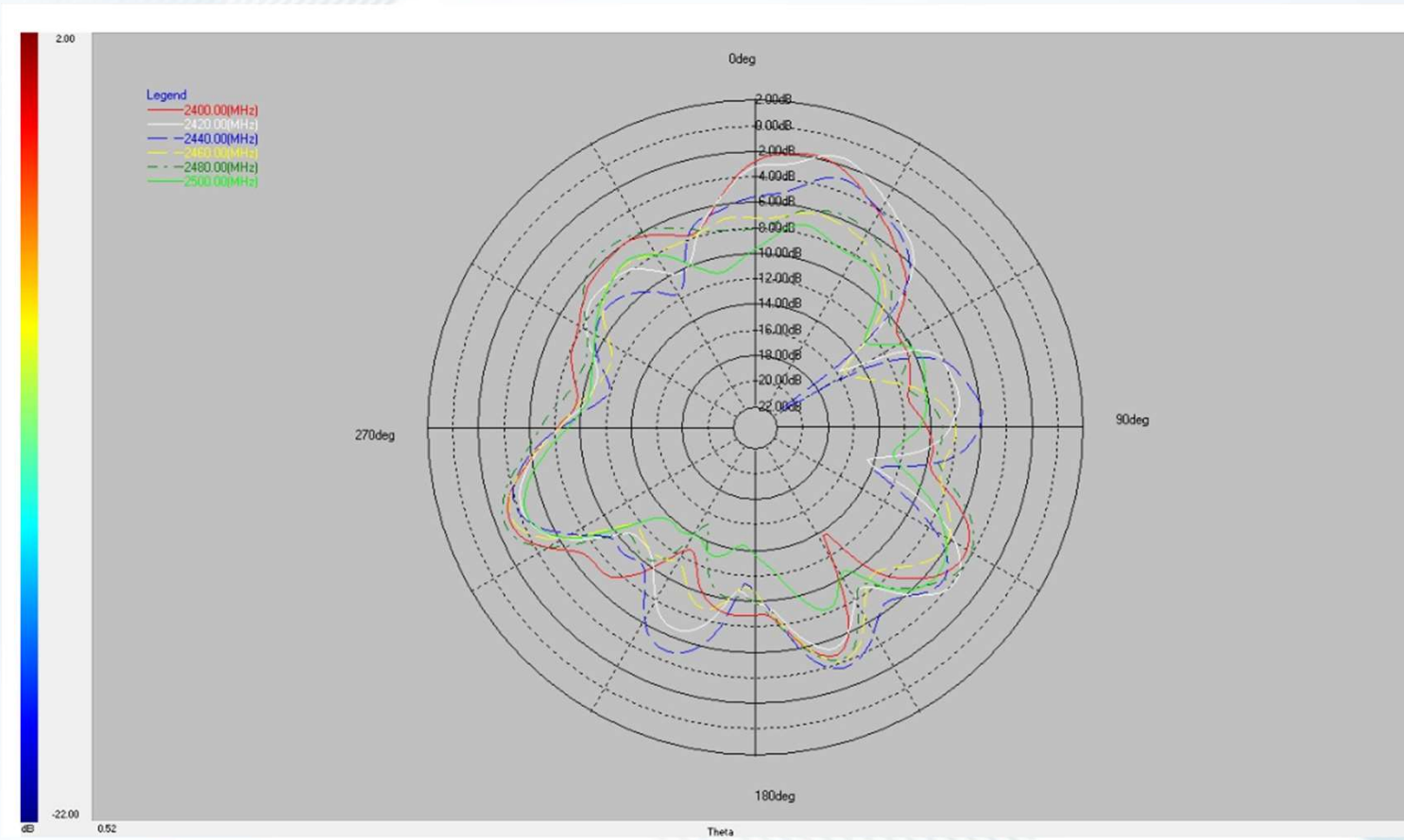
Freq_MHz	Gain(dBi)	Efficiency (dB)	Efficiency_ (%)
2400	-0.1	2.51	29.51%
2410	-0.11	1.89	28.32%
2420	-0.14	1.51	27.65%
2430	-0.12	1.43	29.97%
2440	0	1.01	26.89%
2450	-0.18	0.90	25.13%
2460	-0.16	0.69	25.87%
2470	-0.23	0.10	23.71%
2480	-0.33	0.18	24.51%
2490	-0.38	0.11	23.12%
2500	-0.36	0.23	23.43%

4. 场形图 Phi=0



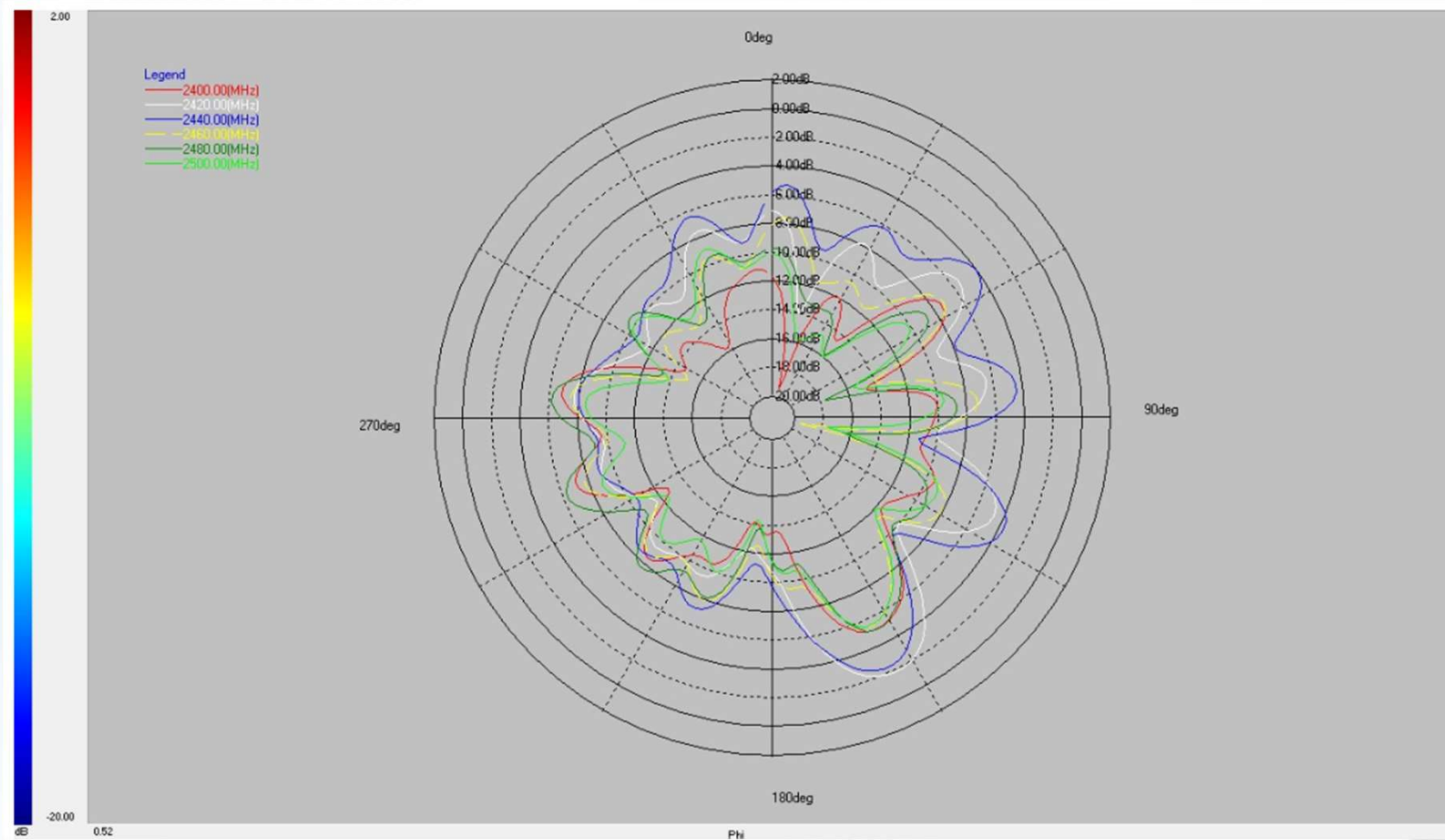
Phi=0

4. 场形图 Phi=90



Phi=90

4. 场形图 Theta=90



Theta=90

THANK YOU