

BS207 Antenna specification

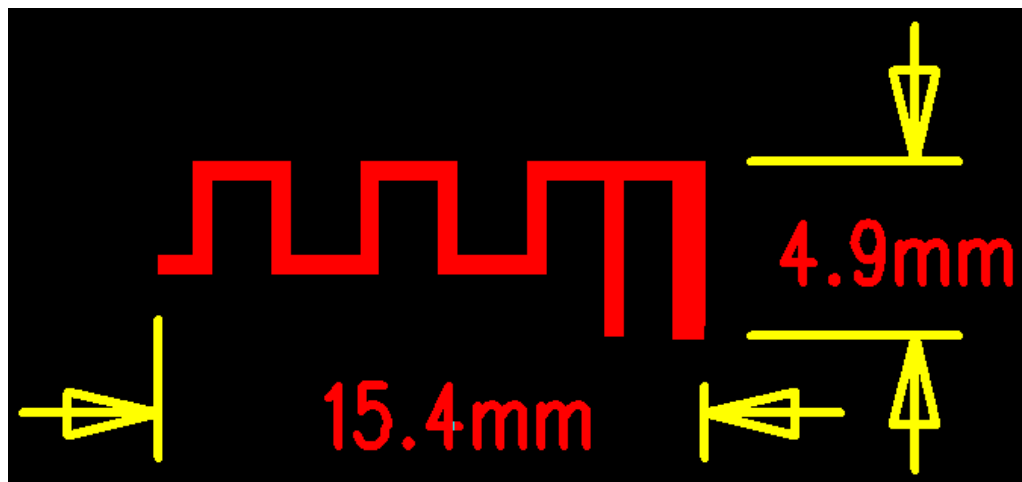
Dongguan iglory Co., Ltd
Address: No.65 Zhengwai Forth Road, Dongkeng
Town, Dongguan, Guangdong(PC52300)

Project Information

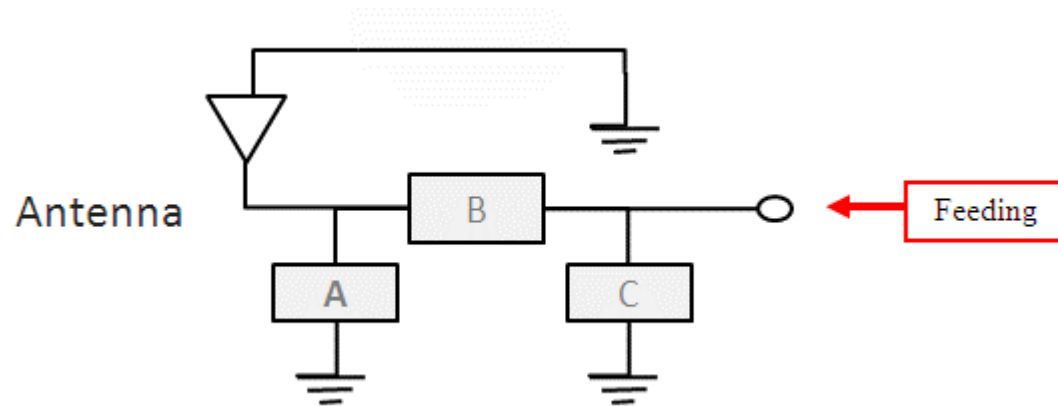
• Customer :	AVIOT
• Project name :	BS207
• End Product :	Bluetooth speaker
• RF (work Freq.) :	Bluetooth (2400MHz-2482MHz)
• MP Plan :	2026年
• Forecast Qty :	/month
• Customer requirements : 1. According to development requirements.	

• Suggested Solution :	PCB Antenna
• Phase :	Matching for Machine
• Report Date :	2026/01/15
• Report Version :	Ver. 01

PART NUMBER : BS207_Antenna_V1.4

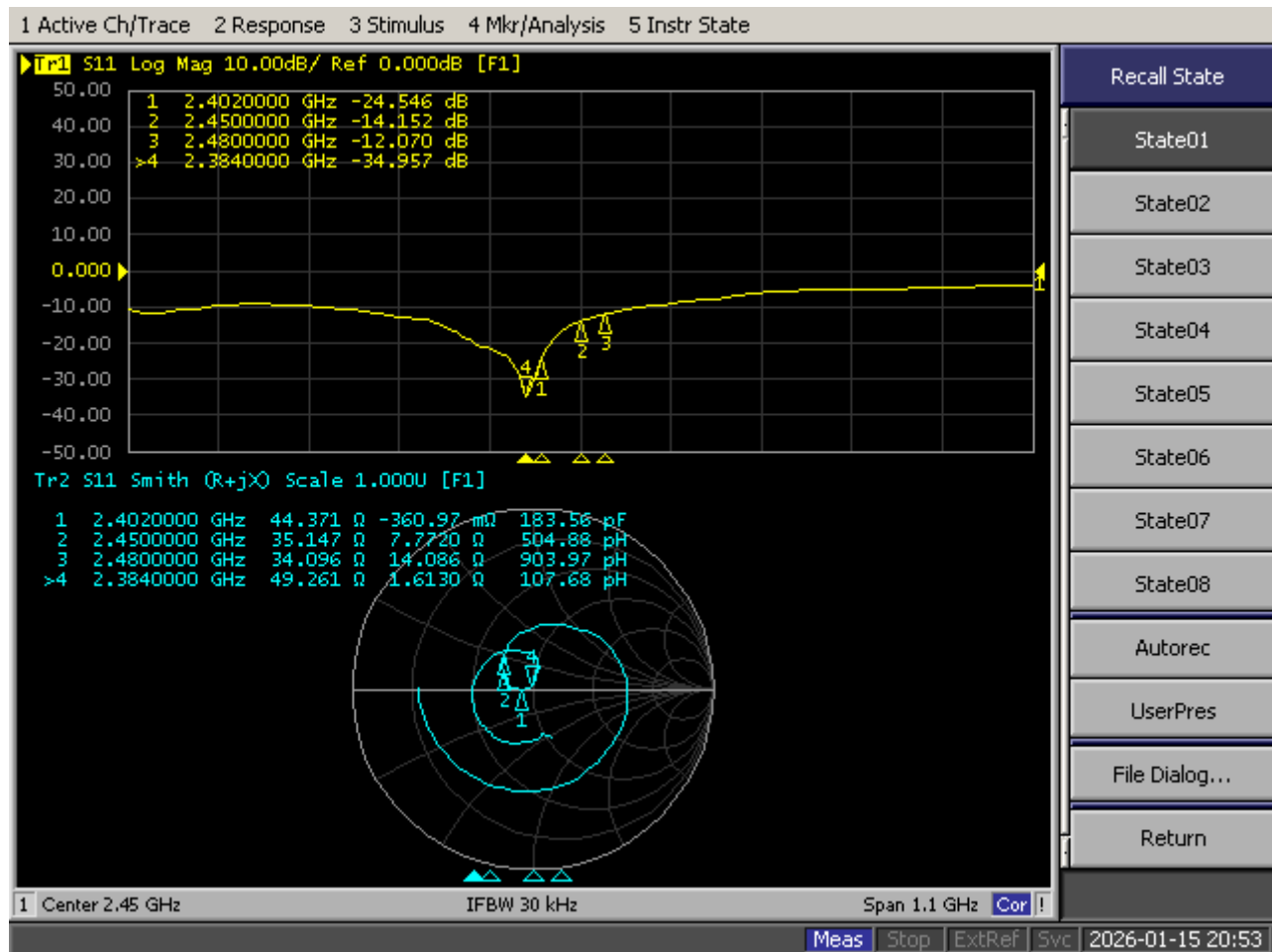


Product Type	PCB Antenna
Size Code	15.4x4.9mm
Frequency	2.45GHz
Peak Gain	1.04dBi (Typ.)
Impedance	50 Ohm
Return loss	10 dB (Min)
Polarization	Linear
Azimuth Beamwidth	Omni-directional



Matching		Value
A		NC
B	Resistor	0Ω
C		NC

Smith chart



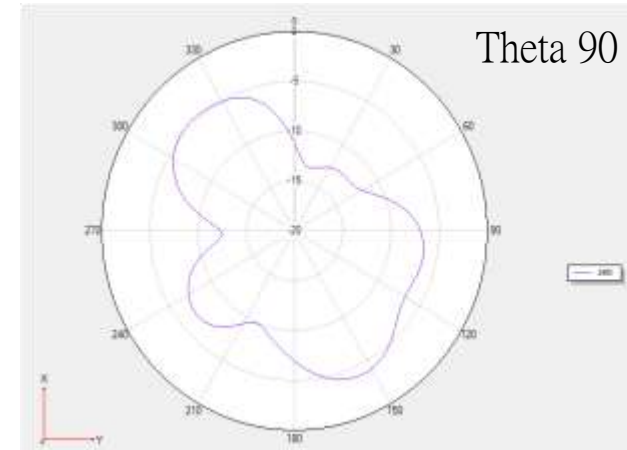
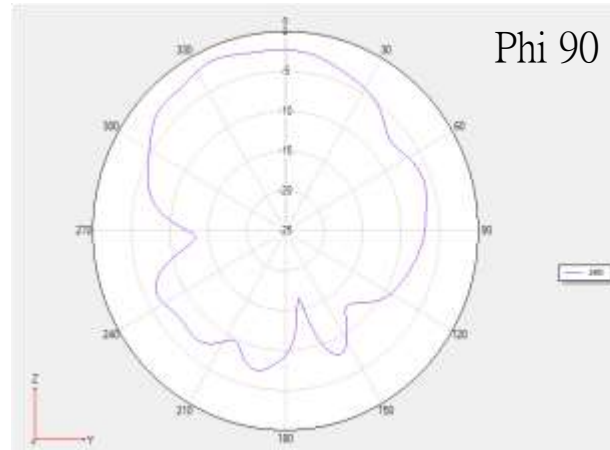
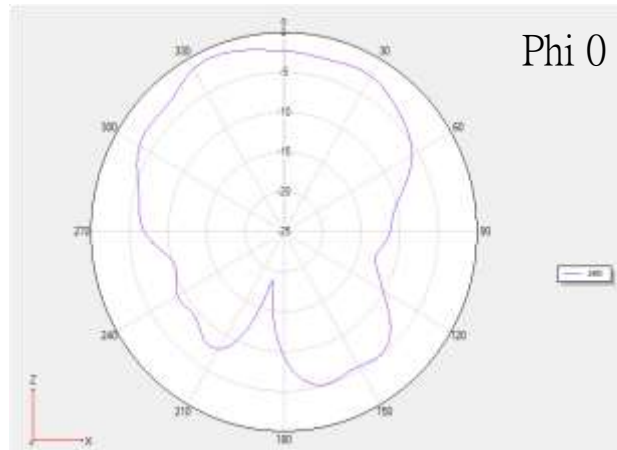
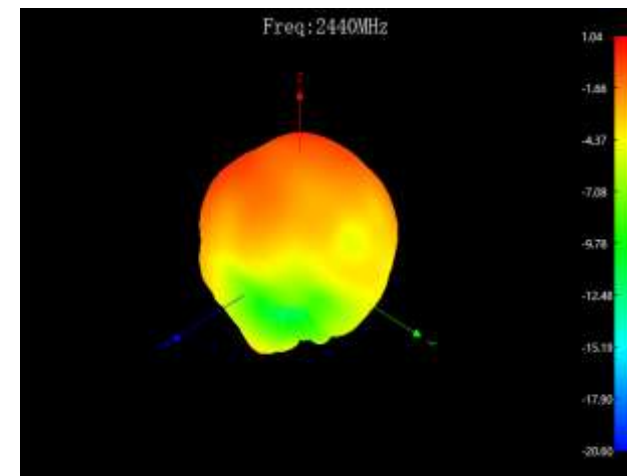
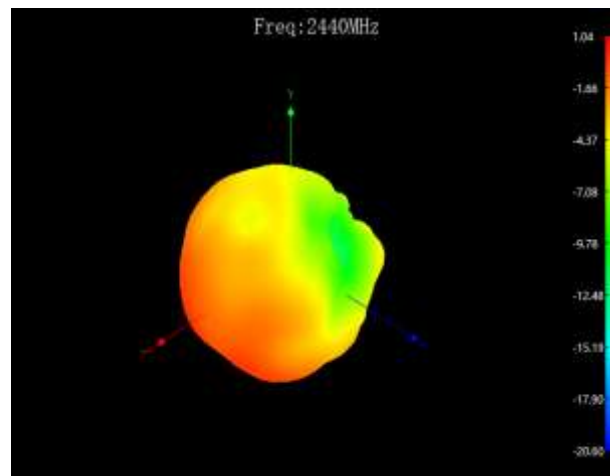
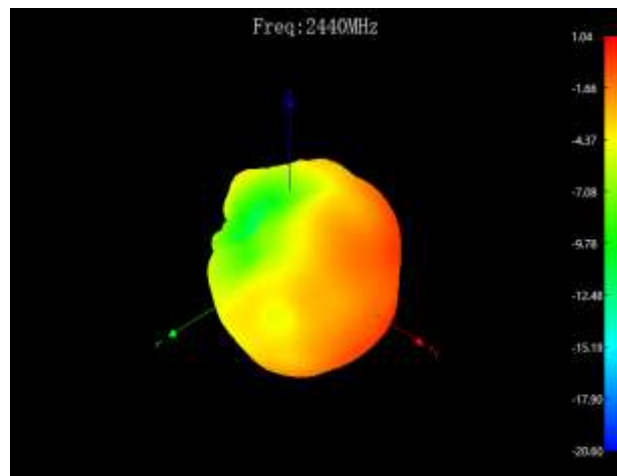
Efficiency& Gain

Frequency/Mhz	MaxGain/dBi	Efficiency / %
2400	1.04	39.72
2410	0.84	38.28
2420	0.43	35.48
2430	0.32	34.43
2440	0.02	32.89
2450	-0.48	30.41
2460	-0.65	28.97
2470	-0.97	27.16
2480	-1.32	26.18
2482	-1.35	26.11

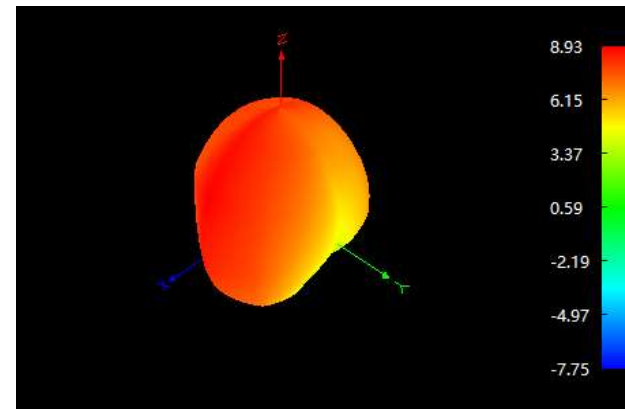
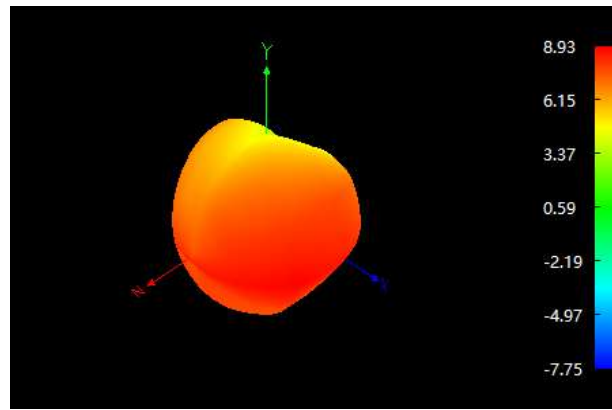
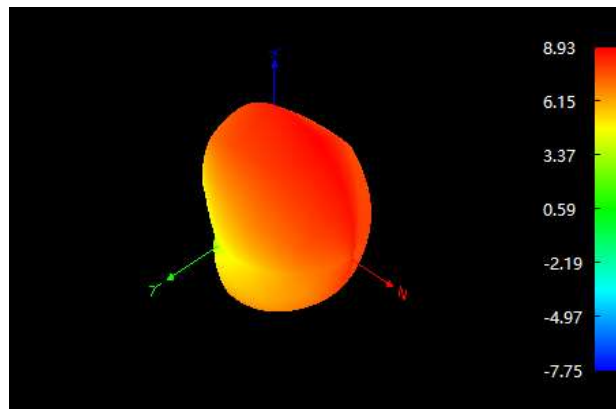
OTA-FS

Measurement	Channel	Frequency(KHz)	Total(dBm)
TRP	0	2402	5.56
TRP	39	2441	5.31
TRP	78	2480	3.81
TIS(EIRP)	0	2402	-92.95
TIS(EIRP)	39	2441	-93.37
TIS(EIRP)	78	2480	-92.28

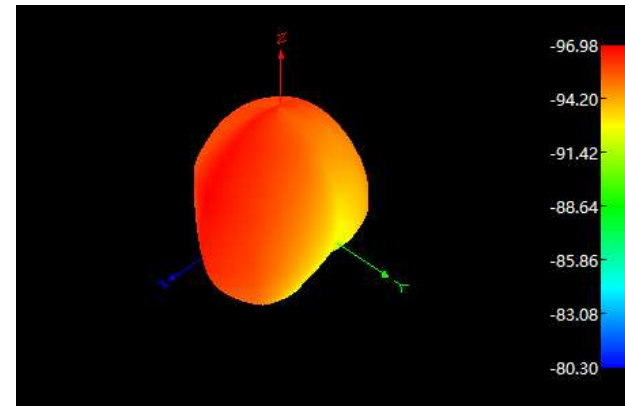
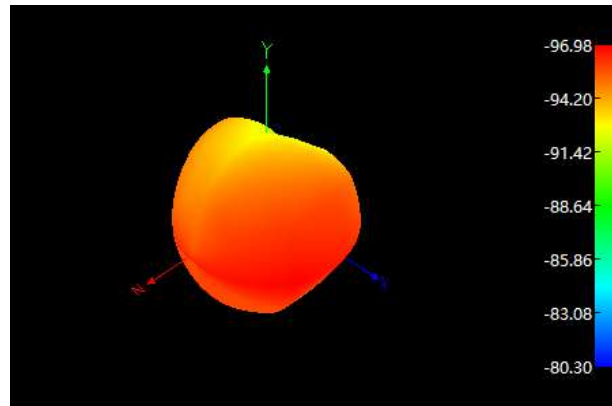
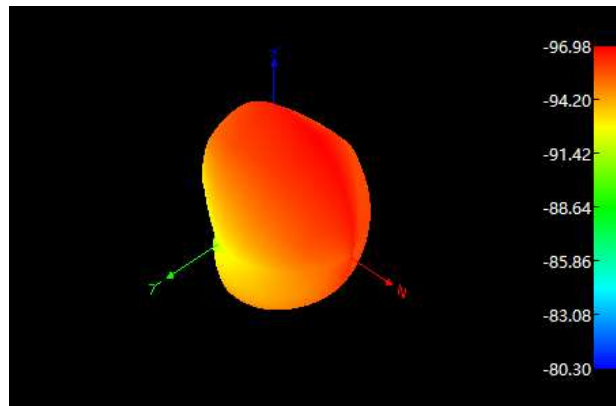
2D&3D Polar graph (Passive/freq=2440MHz)



3D Polar graph(TRP -freq=2441MHz)



3D Polar graph(TIS -freq=2441MHz)



Test equipment

E5062A



CMW500



Thank You