

VOS1000 Antenna report V2

2025/3/21

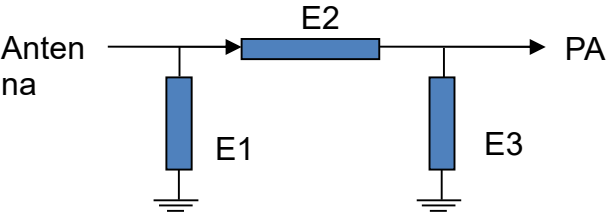
Objectives : Antenna testing

Conclusions :

Antenna	Band	Material	performance requirement
BT	2400-2480MHz	PCB antenna	

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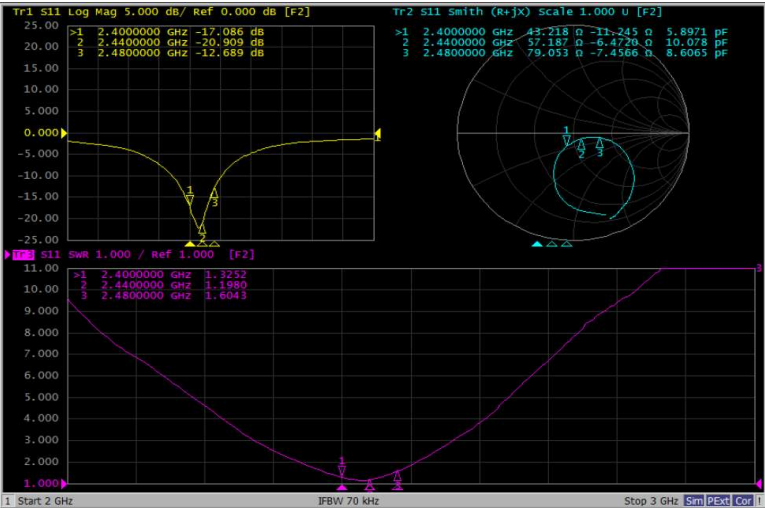
Antenna matching circuit



Element	
E1(0402)	
E2(0402)	1.0pF
E3(0402)	0.5pF

Passive S11 parameter test for antenna

BT

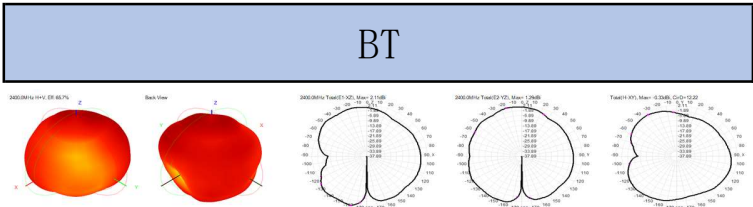


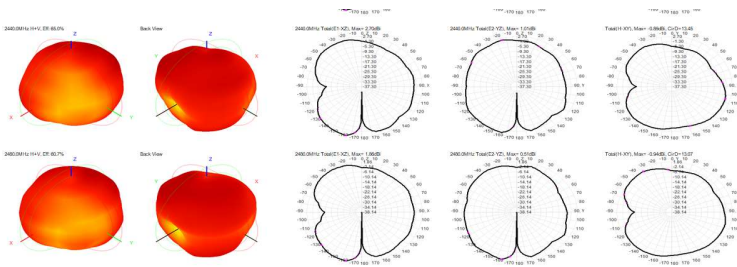
Freq (MHz)	2400	2440	2480
SWR	1.33	1.20	1.60
Log Mag	-17.09	-21.00	-12.69

Passive efficiency and gain testing of antennas

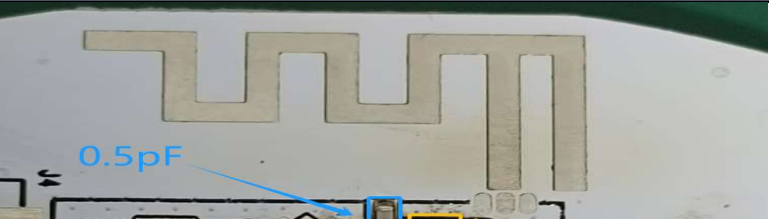
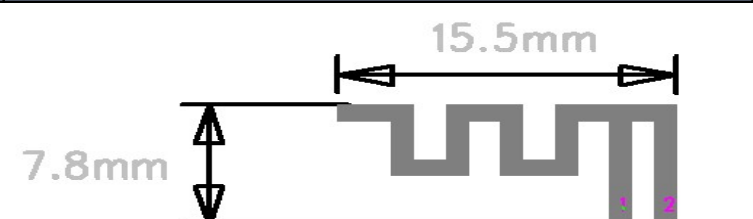
BT		
Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400	2.84	65.67
2410	2.98	66.22
2420	3.03	64.86
2430	3.34	66.17
2440	3.30	65.00
2450	3.22	63.38
2460	3.22	62.99
2470	3.18	62.04
2480	2.92	60.68
2490	2.68	58.97
2500	2.50	57.71

Passive radiation pattern of antenna





Antenna position and matching image

BT	Antenna size	Antenna manufacturer
		Zhong Shan City Richsound Electronic Industrial Ltd.

add: No.16, East ShaGang
Road, GangKou Town,
ZhongShan City,
GuangDong, 528447, China