

## M194 Antenna Test Report V1

2024/9/19

The main purpose  
of this report is  
to:

**BT antenna performance verification test**

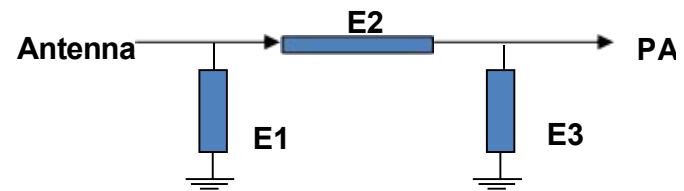
The main  
conclusions of  
this report are as  
follows:

**Antenna performance test passive active test ok, prototype four  
directions and human body rotation 360° pull distance is not stuck**

antenna	frequency range	material quality	performance requirement
BT	2400-2480MHz	FPC	According to customer requirements

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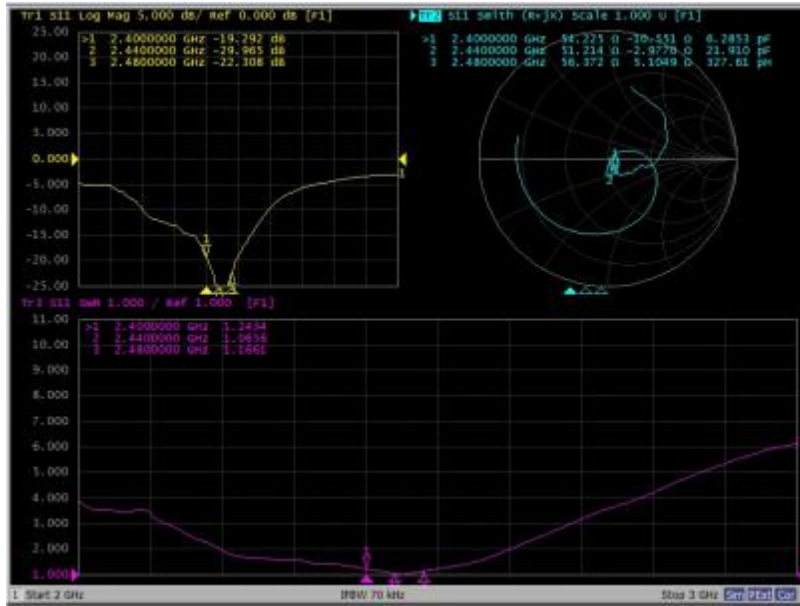
## Antenna end matching circuit:



BT	
Element	
E1(0402)	NG
E2(0402)	oR
E3(0402)	NG

# Antenna passive S11 parameter test:

BT



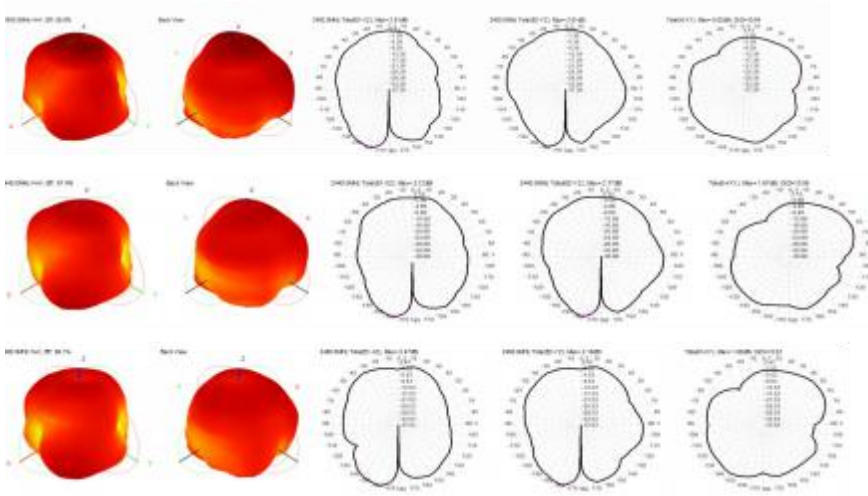
Freq ( MHz)	2400	2440	2480
SWR	1.24	1.06	1.16
Log Mag	-19.29	-29.96	-22.30

## Antenna passive efficiency and gain test:

BT		
Frequency (MHz)	Gain (dBi)	Efficiency
2400	2.73	55.70%
2410	2.91	56.40%
2420	3.17	56.60%
2430	3.47	57.40%
2440	3.49	57.30%
2450	3.39	57.40%
2460	3.26	57.70%
2470	3.20	57.40%
2480	3.17	56.20%
2490	3.31	55.90%
2500	3.41	55.50%

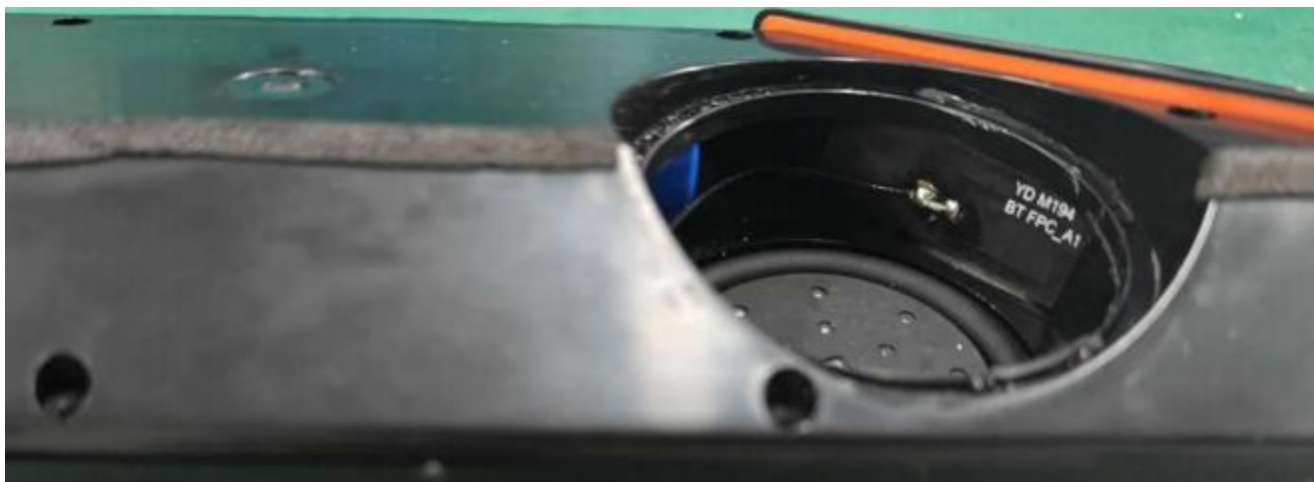
## Antenna passive radiation direction diagram:

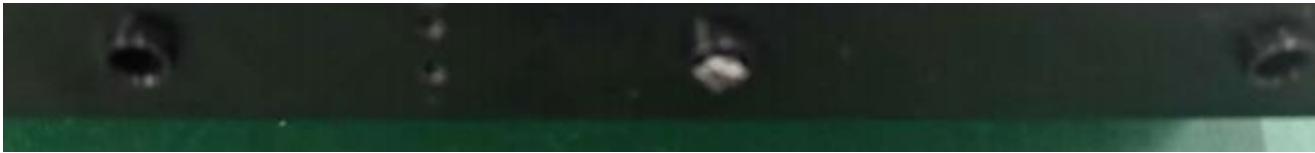
BT



## Antenna position and prototype picture:

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**Drawing of the pull-range test prototype:**

