

HSB3141 Antenna Test Report V3

date: 2026/5/6

of this report is: Bass test

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antenna	frequency band	Material	Performance requirements
RX	2400-2480MHz	Onboard antenna	

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Shenzhen Wolet Electronics Co., Ltd.

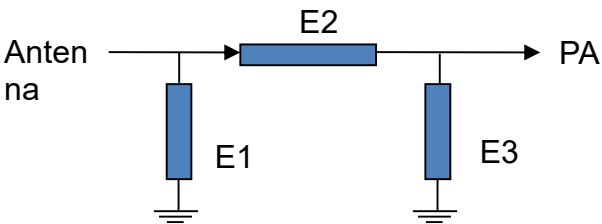
Shenzhen World Elite Electronic Co. LTD.

Address: Xiangyuer Industrial Park, No. 8 Longsheng Road, Longgang District, Shenzhen, Guangdong Province

Add:Xiangyuer Industrial Park, No. 8, Longsheng Road, Longgang Street, Longgang District, Shenzhen, Guangdong, China Tel: 0755-89983786

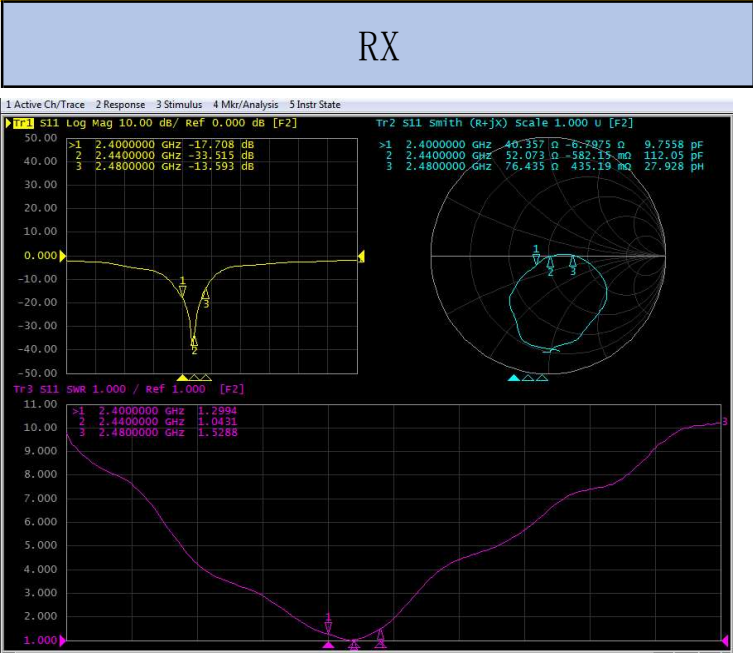
Tel: 86-755-89983786

Antenna matching circuit:



RX	
Element	
E1(0402)	NC
E2(0402)	8.2pF
E3(0402)	0.7pF

Antenna passive S11 parameter test:

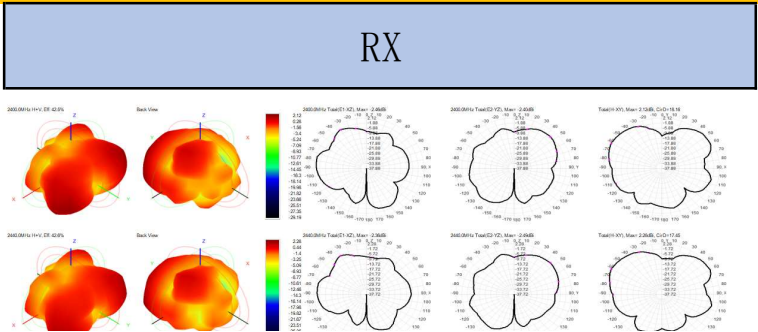


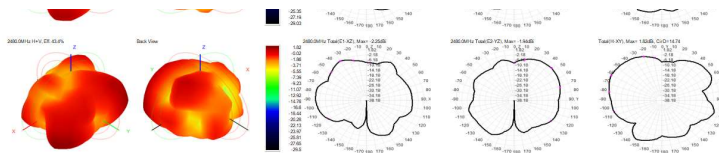
Freq(MHz)	2400	2440	2480
SWR	1.30	1.04	1.53
Log Mag	-17.71	-33.52	-13.59

Antenna passive efficiency and gain testing:

RX		
Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400	2.12	42.47
2410	2.29	43.38
2420	2.07	42.36
2430	2.01	41.00
2440	2.28	42.57
2450	1.90	40.32
2460	1.97	41.71
2470	1.55	40.62
2480	1.82	43.42
2490	1.52	41.48
2500	1.38	42.02

Passive radiation pattern of the antenna:

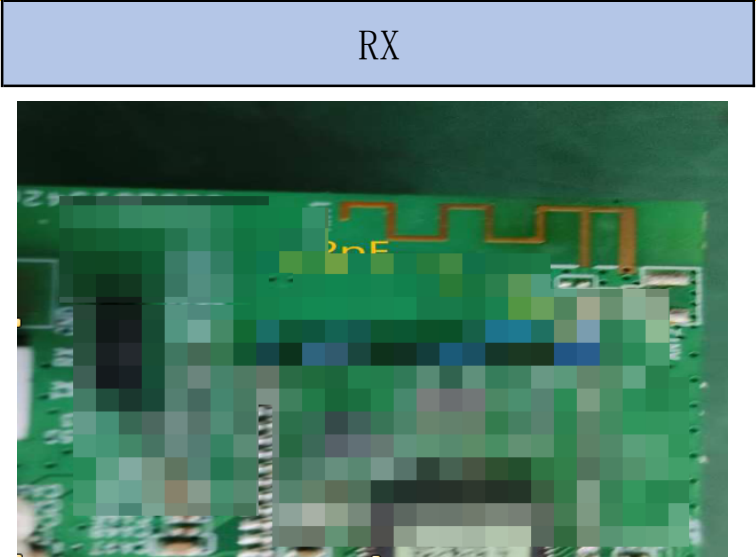




Antenna OTA test:

RX		
Channels	TRP	TIS
0	4.36	-91.18
39	4.36	-90.89
78	4.42	-90.82

Antenna location and matching image:



Antenna size

