



Shenzhen jingsong technology co., ltd

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Leader of microwave
communication technology

HK08 antenna comprehensive measurement report

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April 16(th), 2024



1. Project status

HK08						
mainboard						
Main antenna	frequency band		Antenna state	Antenna form	Design area	Matching change
	BT	2402-2480MHz	Metal frame	Hey, hey, hey, hey, hey, hey, hey.	Watch ring	without



testing environment

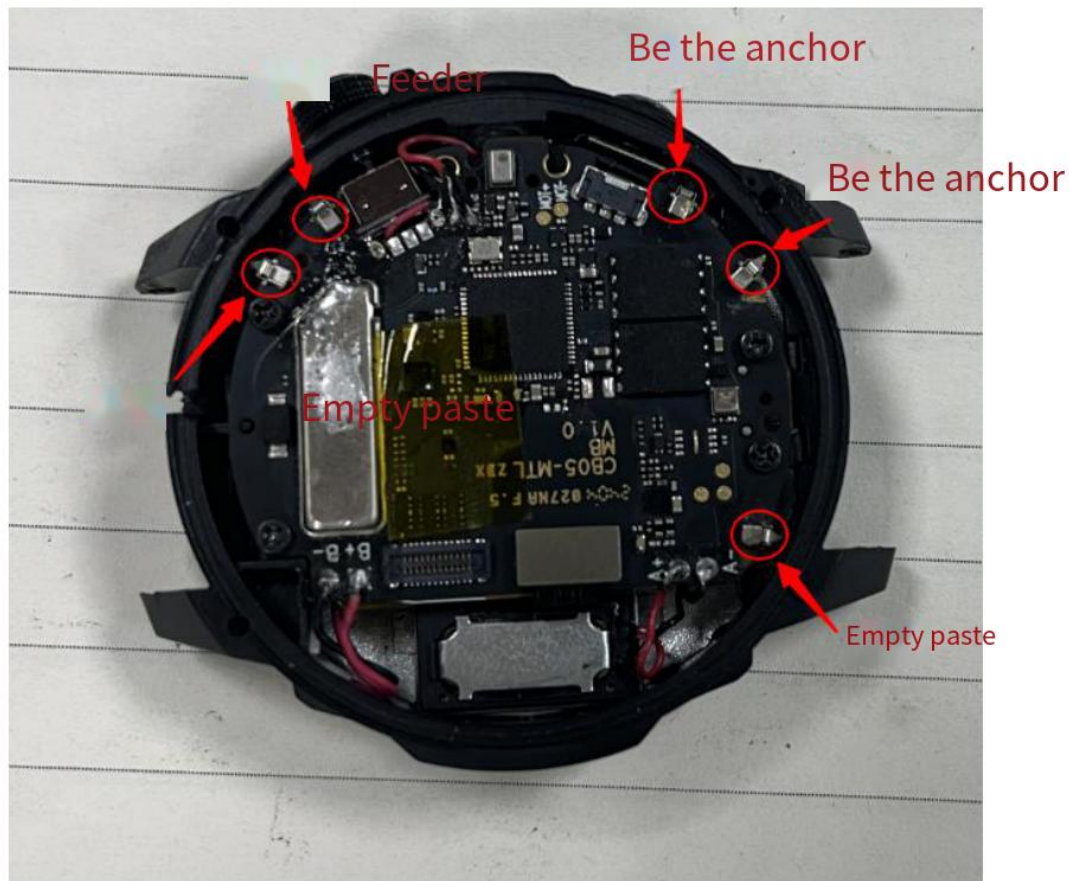


2024-4-16

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Instructions for use of motherboard spring feet

Remarks: This antenna design uses a feed foot and two feet, as shown in the figure.

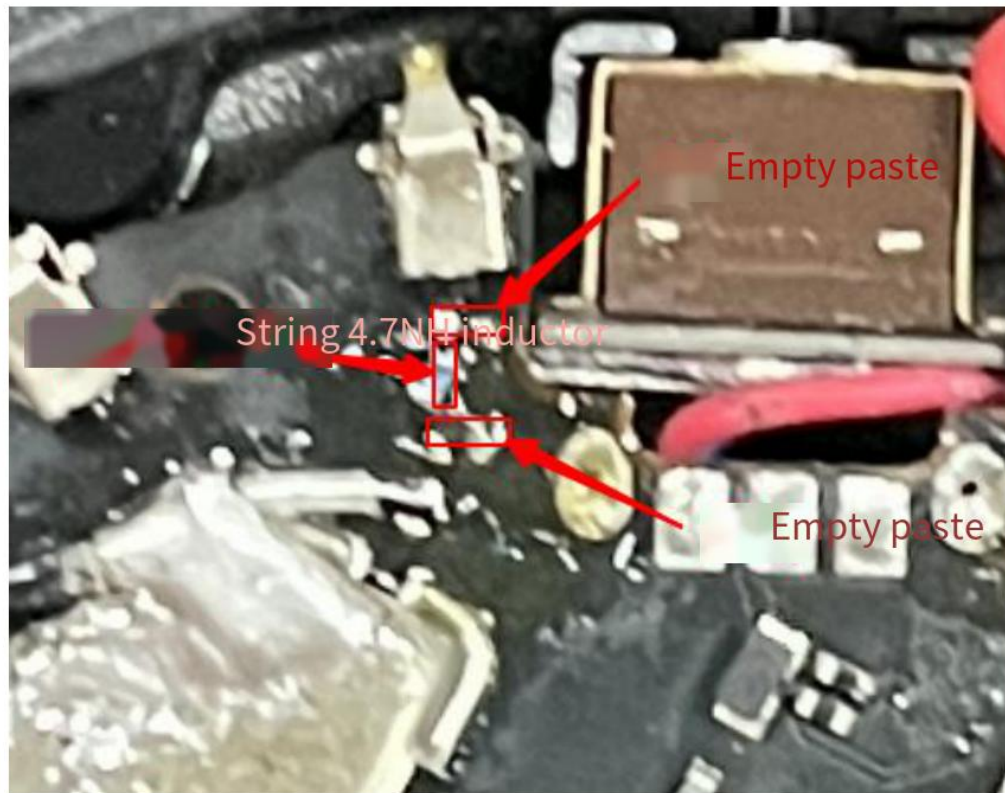




Description of motherboard matching change

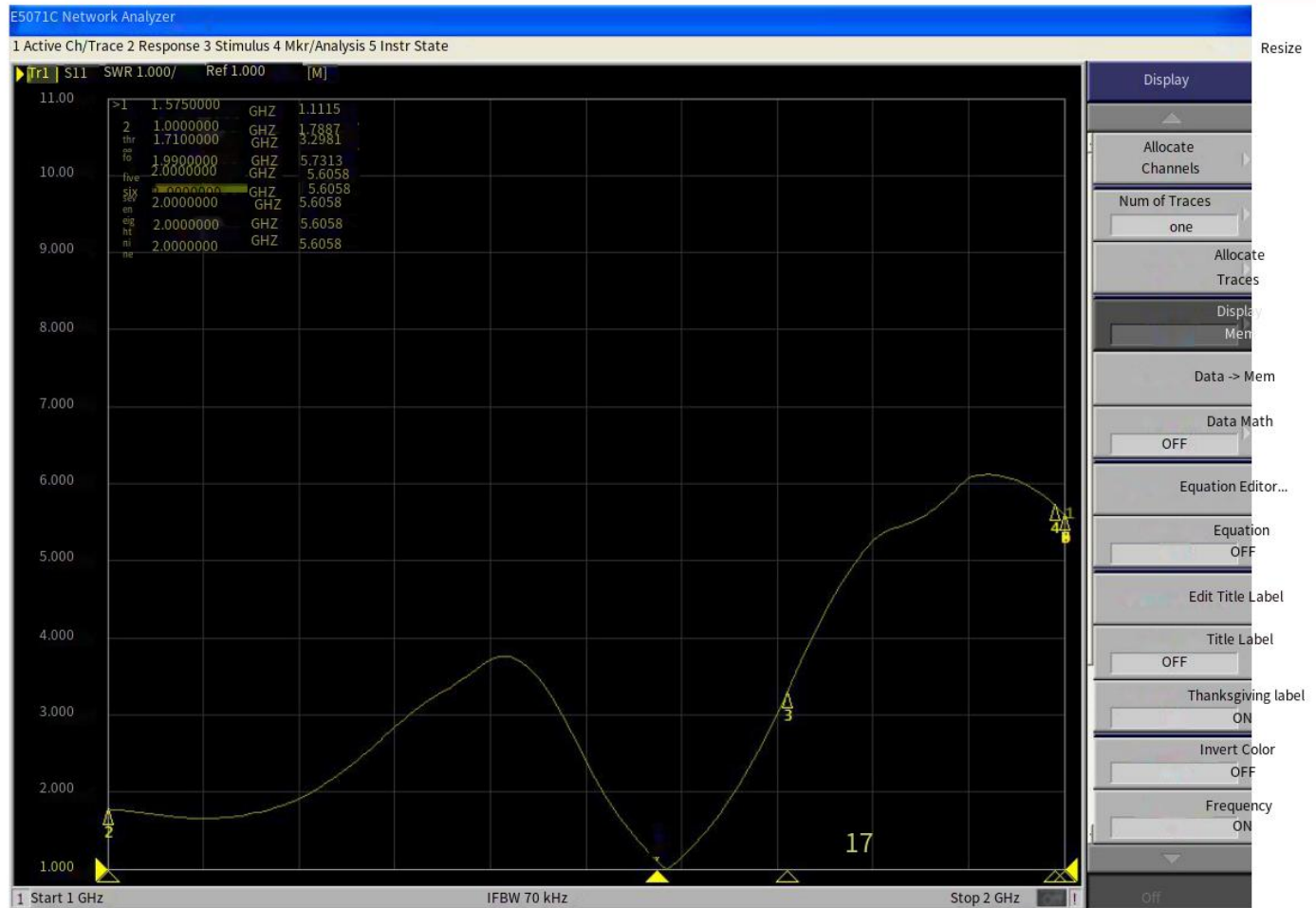
LOJSON

Remarks: As shown in the figure, connect a 4.7NH inductor in series on the main circuit.





L1 antenna standing wave diagram



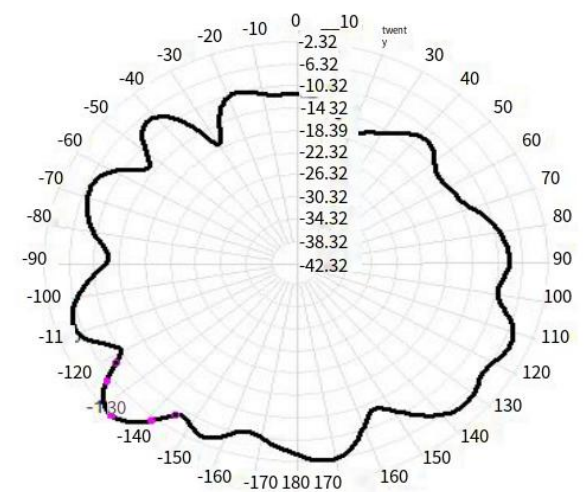
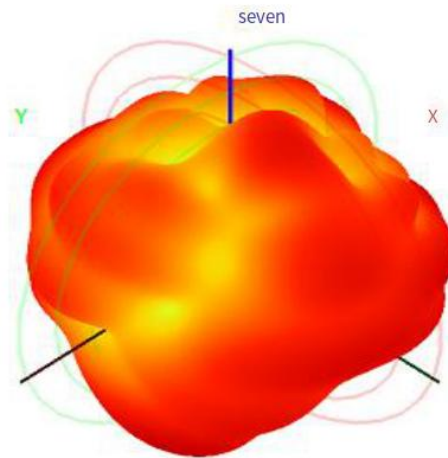
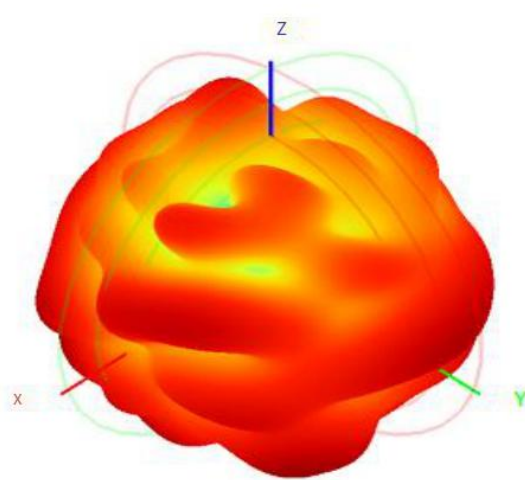


L1 antenna test data

Antenna test data:

Test data:		
BT		
Freq(MHz)	Efficiency (%)	Gain (dBi)
2402	14.3	2.10
2410	14.6	2.05
2420	14.5	2.03
2430	15.7	3.35
2440	15.2	2.08
2450	15.7	2.01
2460	14.8	2.10
2470	14.8	2.07
2480	14.3	2.03

L1 antenna pattern





GPS measured data

Remarks: The test site is the roof of the 4th floor of our company.



Win-win cooperation

