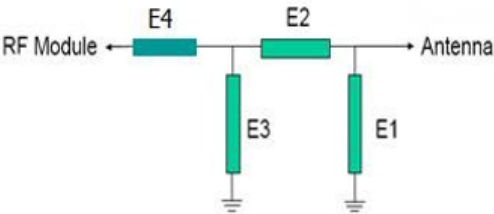


Customer: DUOKE
Project: DK123
ME: Xiao Xiang-13316888409
RF: RiXin Huang - 13682667404
Date: March 19, 2026
Report Type:
Version No.: V1.0
Status: T0
Frequency band:
2.4G/5G WIFI/BT

Antenna matching circuit:

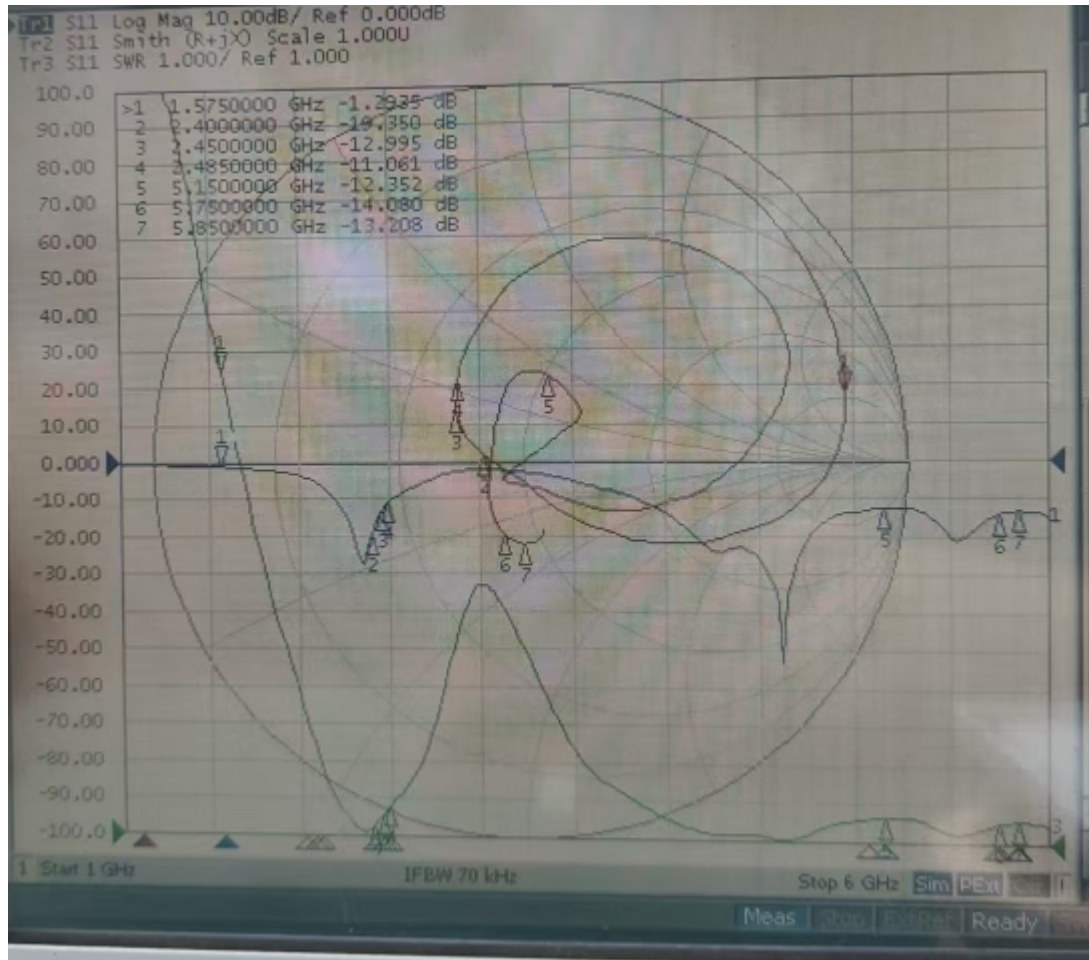
W&B&G:

0201 Specifications		
Element	Value	NO.
E1	Match without changes	
E2		
E3		
E4		



Passive GPS/Wifi/BT antenna :

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Antenna gain:

Frequency (MHZ)	Gain(dBi)
WIFI 2.4G/BT	3.02
WIFI 5.2G	3.58
WIFI 5.8G	5.45

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 Subdistrict, Longgang District, Shenzhen City

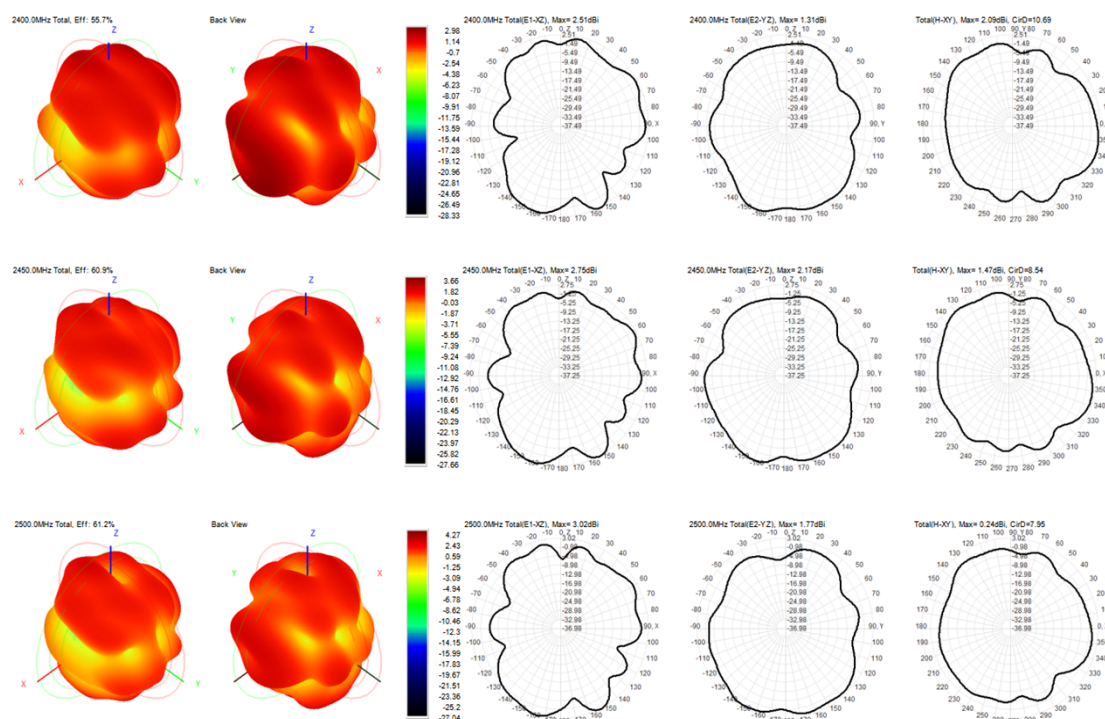
WIFI OTA:

2. 4G	Band	Channel	TRP	Screen On TIS
	b (11M)	1	13. 8	
		6	14. 3	
		13	14. 6	-81. 7
	g (54M)	1	13. 3	
		6	14. 2	
		13	14. 4	-70. 6
	n (MCS7)	1	13. 5	
		6	14. 1	
		13	14. 5	-65. 8

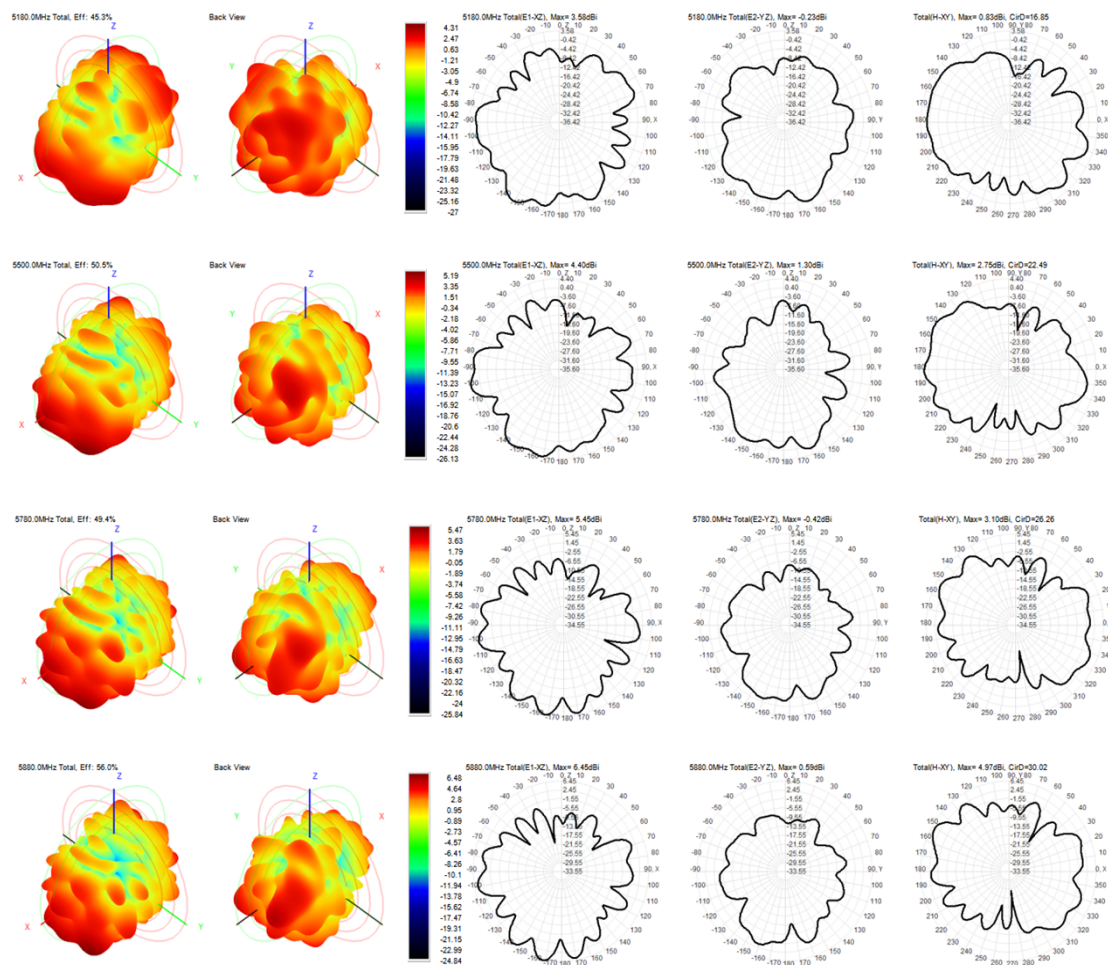
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	Band	Channel	TRP	Screen On TIS
2.4G	a (54M)	36	13.1	
		149	14.3	
		165	14.7	-72.1
	n (MCS7)	36	13.2	
		149	14.1	
		165	14.5	-68.5
	ac (MCS8)	36	12.9	
		149	13.8	
		165	14.6	-66.4
	ax (MCS8)	36	12.8	
		149	14.0	
		165	14.4	-65.8

3D Pattern



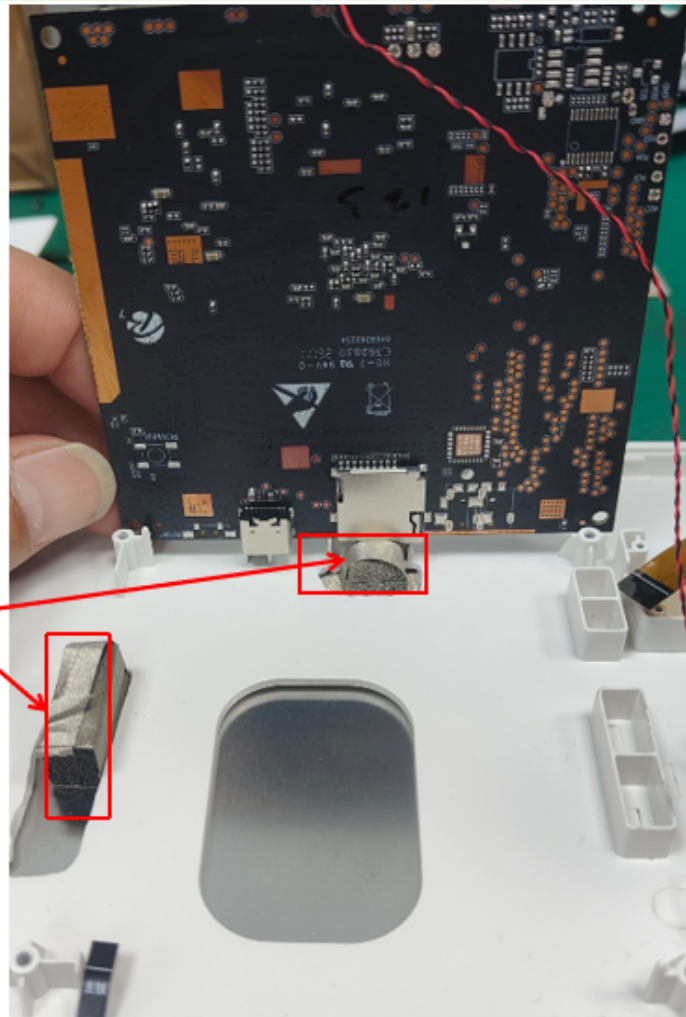
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Environmental treatment

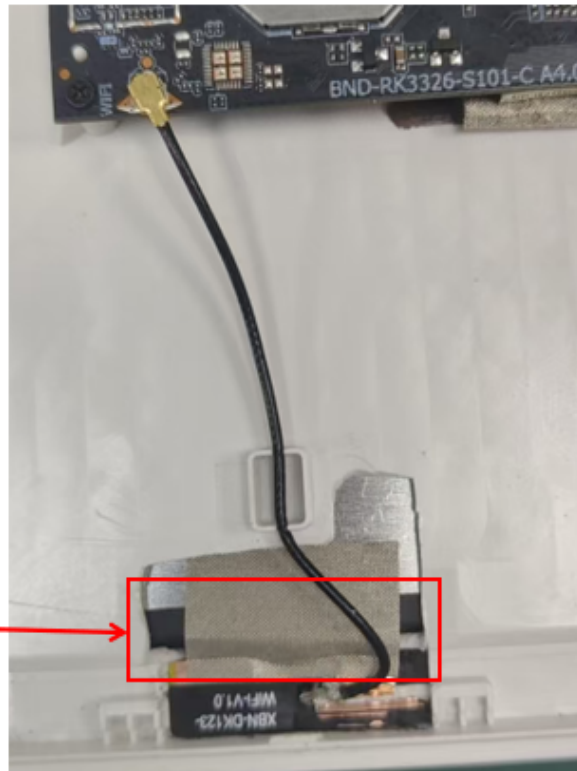
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Attach conductive foam of sufficient height to the screen steel plate and ground it with the motherboard/TF card slot. Keep the impedance between the screen and the motherboard within 0 ohms.



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The exposed copper area of the antenna should be covered with conductive fabric and connected to the shield ground.



It is recommended to fill in the uneven areas within the antenna region to ensure antenna consistency.



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