

Shenzhen AINUOTE communication
equipment Co., LTD

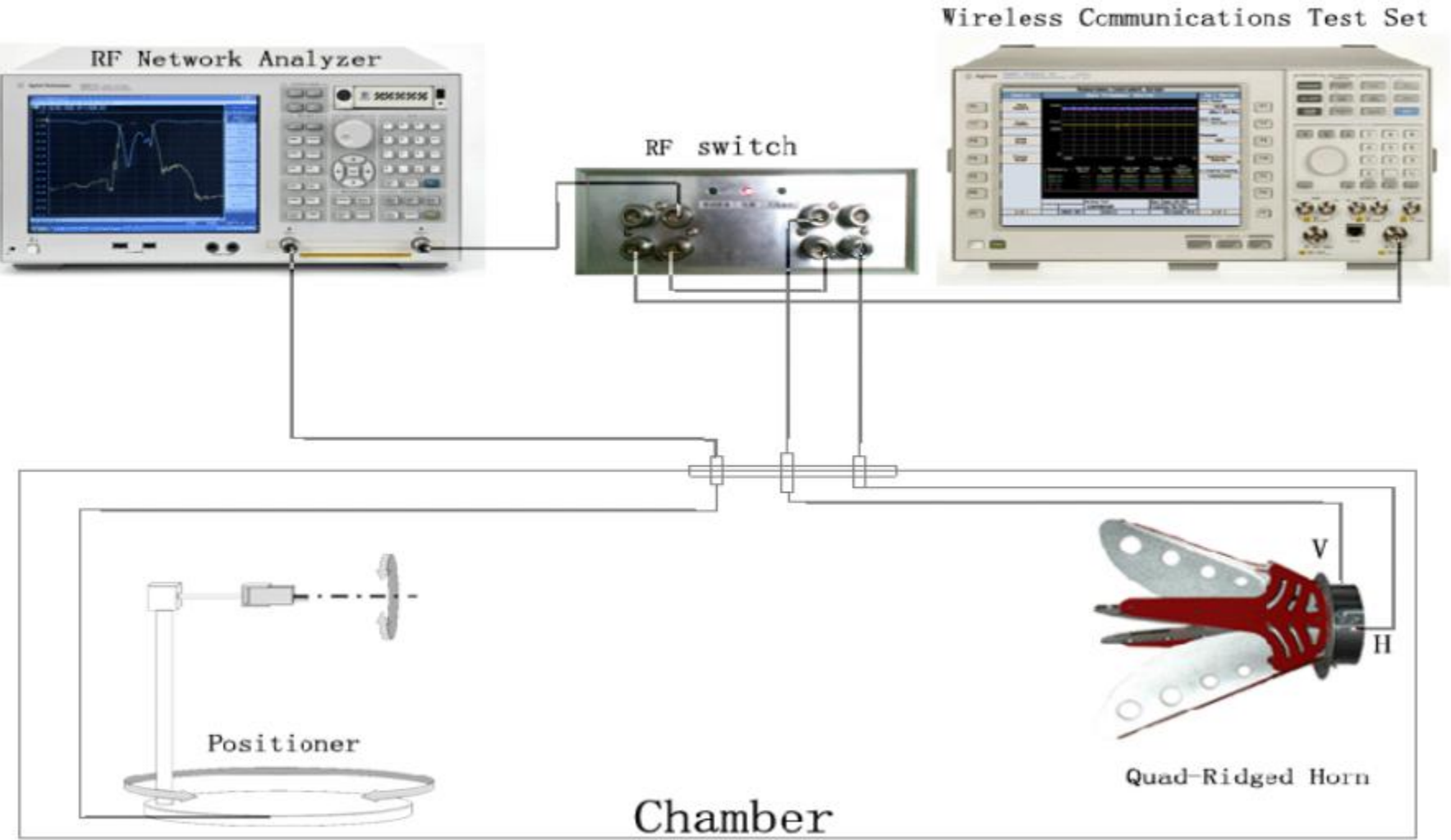
Antenna test report

Client:	Heatmoving	Project	P519	Date	2023. 9. 20
Frequency range:	2.4G-2.48G				
Report version:	V1.0(PCBA lengthened the golden finger, cancelled the solder resistance green oil and white oil, changed to 4 layers)				
P/N:	15A-G0494-00A				
Antenna structure	Board mounted PIFA antenna				

Address: 504-505, Meisheng Chuangu Xia Valley, Longchang Road, Xin an Street, Bao an District, Shenzhen

Tel: 0755-29308863 Fax: 0755-29308861

Test macro



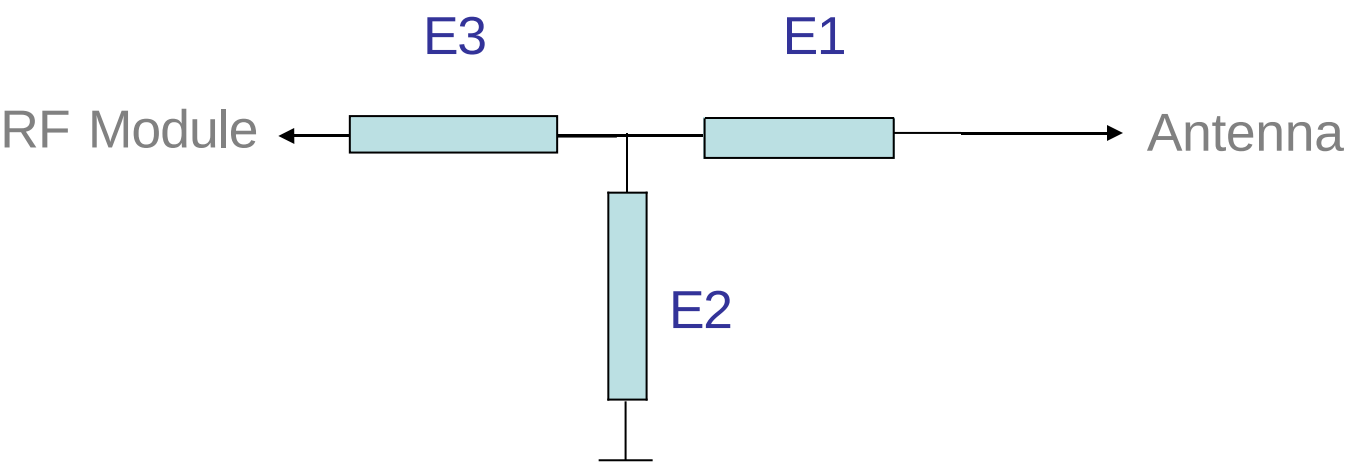
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1、匹配电路

2、无源测试数据

3、天线位置图和测试方式

1. 1 Matching circuit (Dongle)



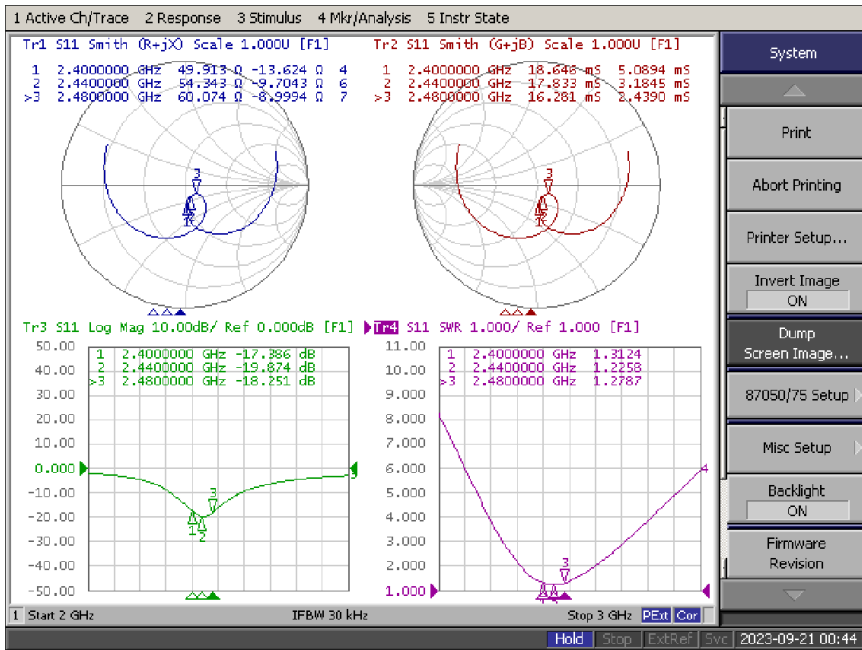
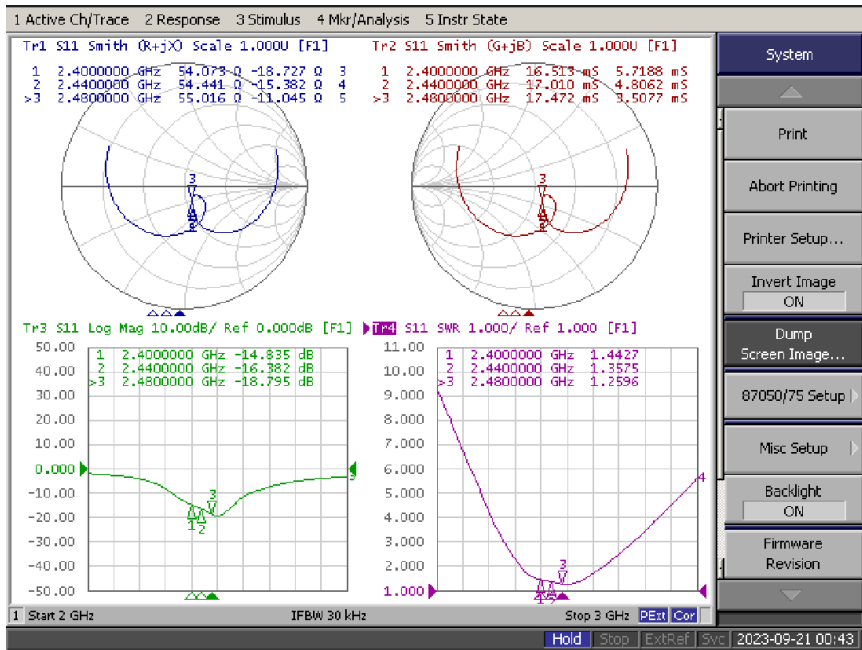
Element	Value
E1(0201)	0Ω
E2(0201)	2.4pF
E3(0201)	0Ω

2、Passive test data

2.1 S11 Parameter

Dongle 1

Dongle 2



2.2 Gain & Efficiency

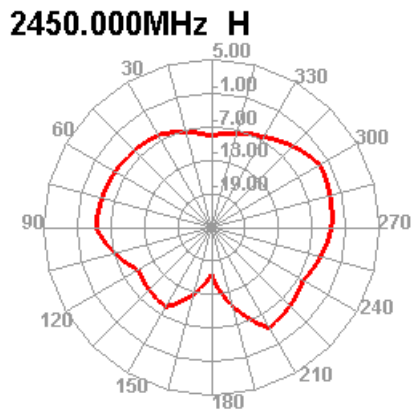
Dongle 1

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	24.49	-6.11	-1.85
2410	24.4	-6.13	-1.64
2420	24.5	-6.11	-1.44
2430	26.18	-5.82	-0.9
2440	25.87	-5.87	-0.94
2450	27.64	-5.58	-0.57
2460	27.19	-5.66	-0.68
2470	27.95	-5.54	-0.79
2480	26.91	-5.7	-1.2
2490	27.27	-5.64	-1.35
2500	27.04	-5.68	-1.5

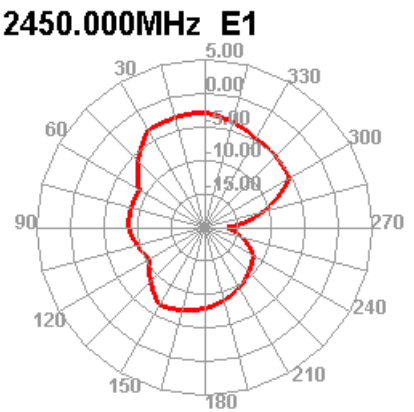
Dongle 2

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	24.75	-6.06	-1.27
2410	24.79	-6.06	-1.29
2420	25.03	-6.02	-1.18
2430	26.4	-5.78	-0.85
2440	26.37	-5.79	-0.83
2450	28.69	-5.42	-0.51
2460	28.42	-5.46	-0.45
2470	29.53	-5.3	-0.93
2480	28.85	-5.4	-1.2
2490	29.85	-5.25	-1
2500	29.49	-5.3	-1.06

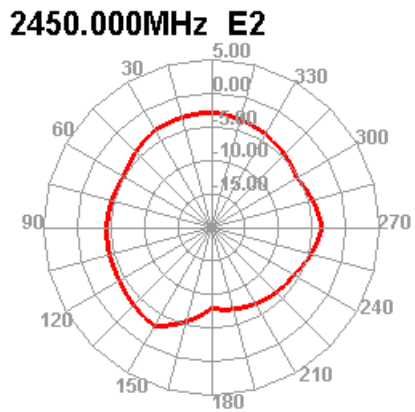
2.3.1 Radiation pattern (Dongle-1)



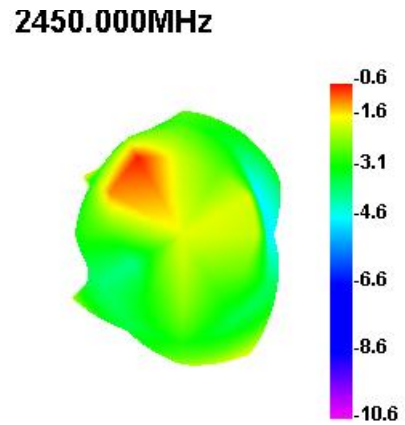
XY



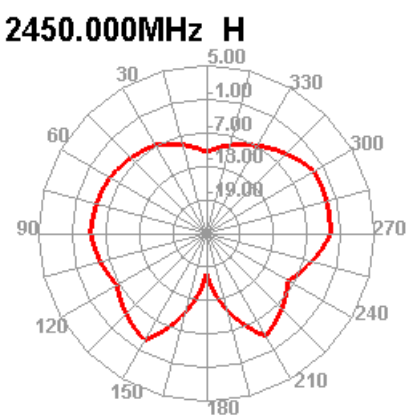
XZ



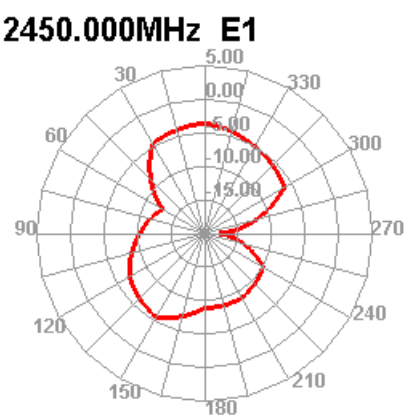
YZ



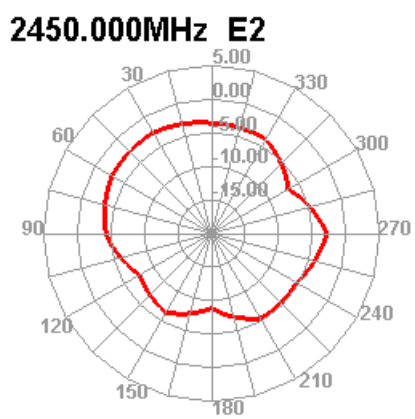
2.3.1 Radiation pattern (Dongle-2)



XY

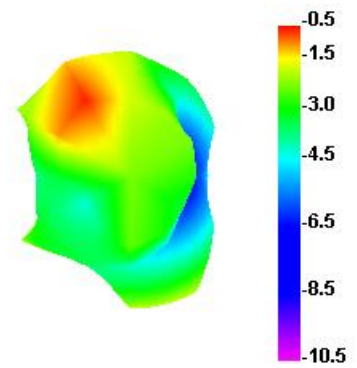


XZ



YZ

2450.000MHz



3、 Antenna location map and test method

