

Antenna Matching Report

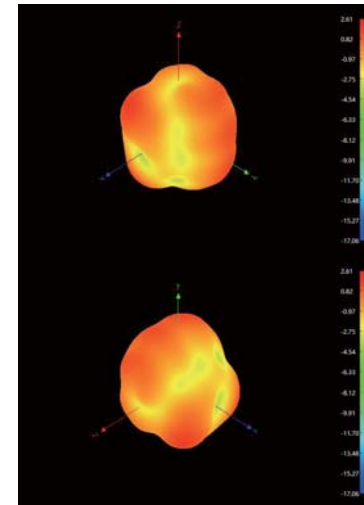
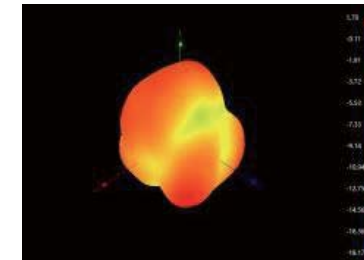
- Conclusion
- Testing environment & Test system
- Matching circuit

By Zhao 2022/09/13

Conclusion

- In PCB environment, Onboard antenna is used to match the working frequency at LTE-2400-2500MHz.

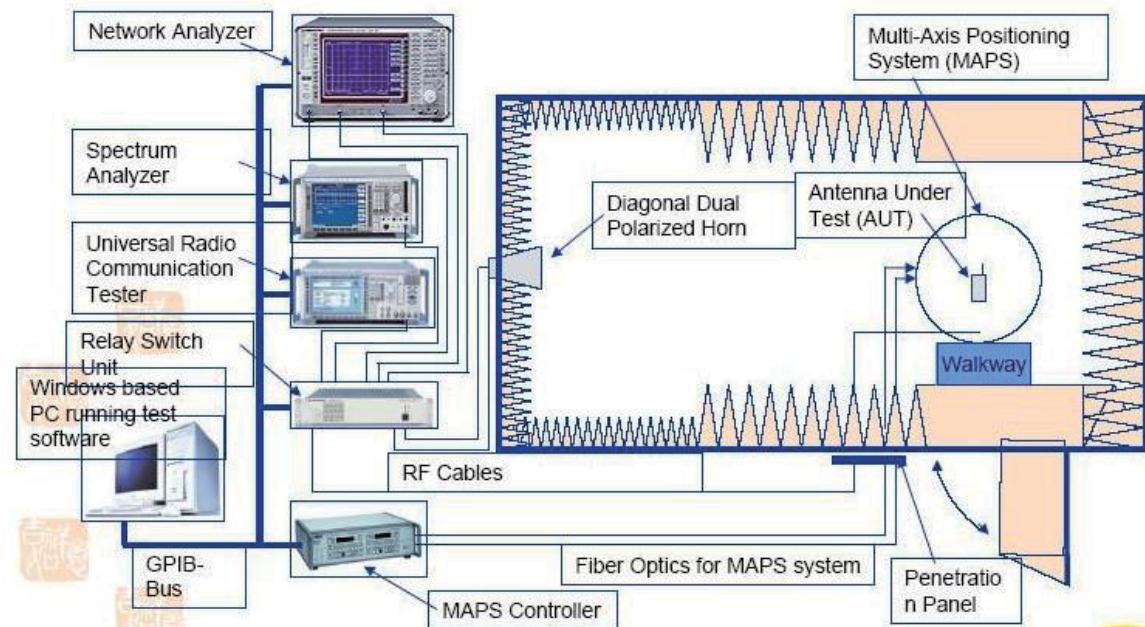
Frequency / MHz	Efficiency / dB	Efficiency / %	Gain/ dBi
2400	-2.36	58.08	1.7
2410	-2.12	61.38	1.58
2420	-2.09	61.8	1.94
2430	-2.04	62.52	1.47
2440	-1.76	66.68	1.45
2450	-1.9	64.57	1.61
2460	-1.95	63.83	1.4
2470	-1.96	63.68	1.55
2480	-2.13	61.24	1.01
2490	-2.26	59.43	2.0
2500	-2.16	60.81	1.6



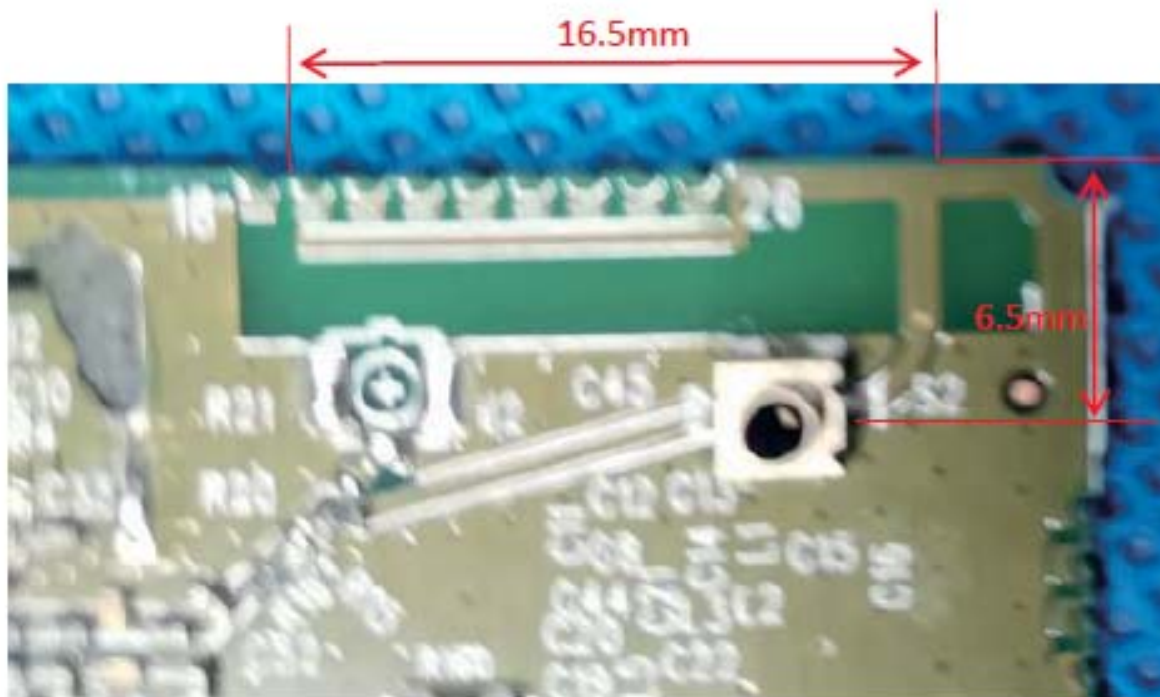
Testing environment & Test system

Test environment :

- Testing environment: XH-HOE Test system
- Environment temperature : 23 °C
- Environment humidity : 52%
- Environment pressure : 101KPa

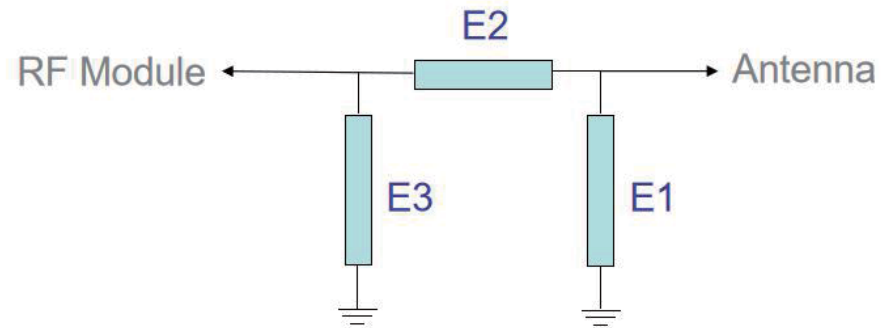


- PCB Antenna



TEST SYSTEM

Matching circuit



Element	Value
E1(0402)	
E2(0402)	
E3(0402)	

Notice : Original match **NO** change