



Project Code/

Part Number/

Target Name/

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1. Purpose

Measurement and match BTHS02 mono antenna.

2. Initial Condition

1.Pcb area : 14 mm*31 mm

2.GND area : 14 mm *24 mm

3.Antenna area :14 mm*7 mm

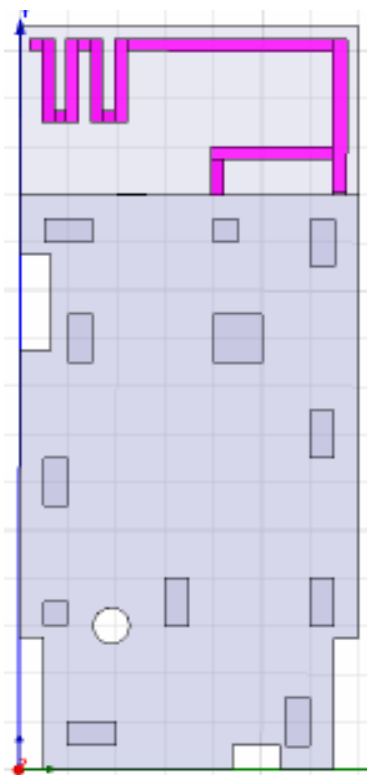
4.4 Layer

5.Antenna type: PIFA

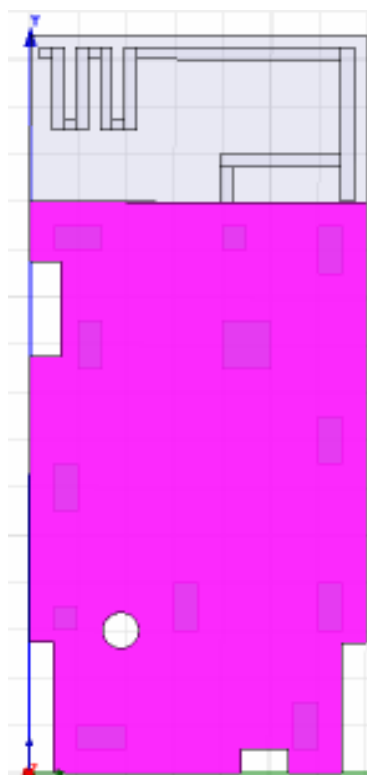
6.Simulation:

PCB

Antenna

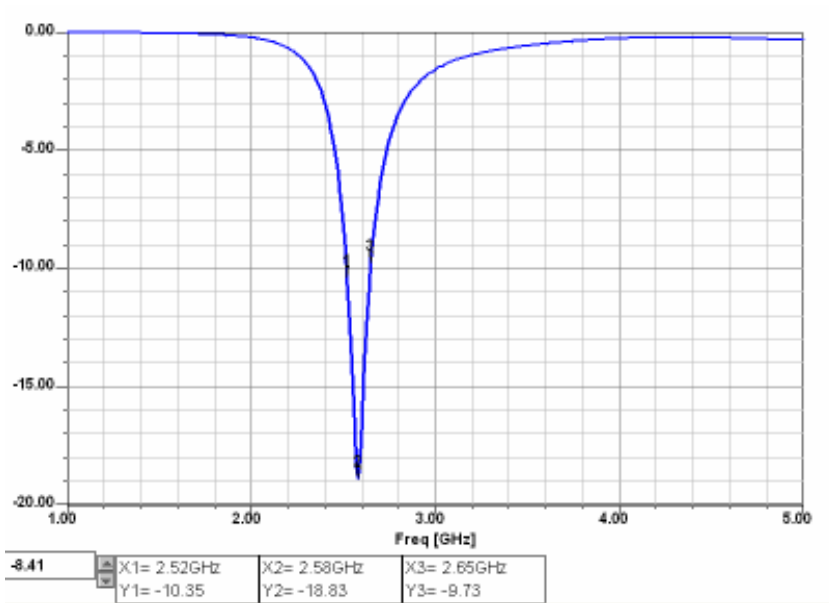


GND

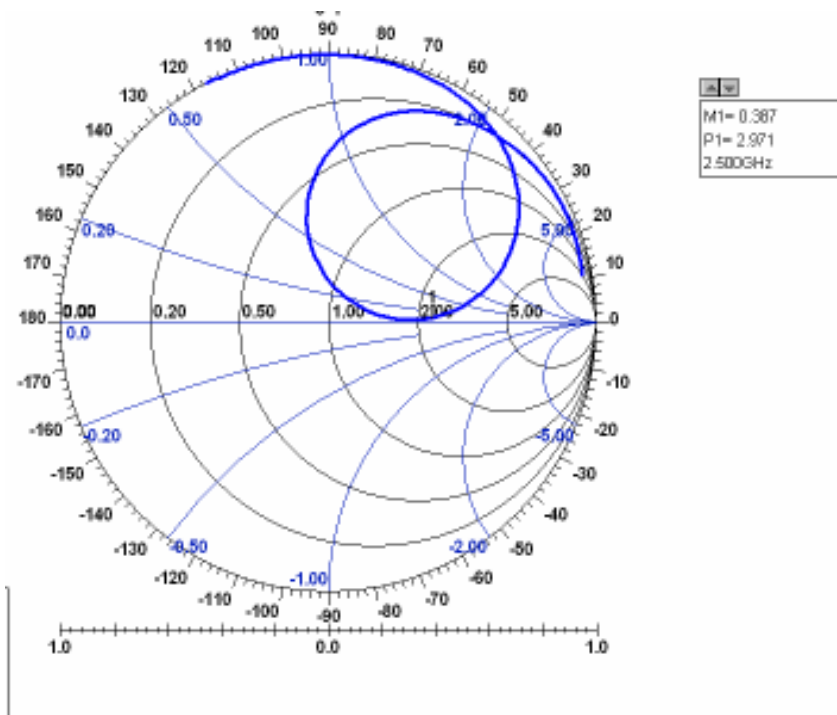




S11 PCB:

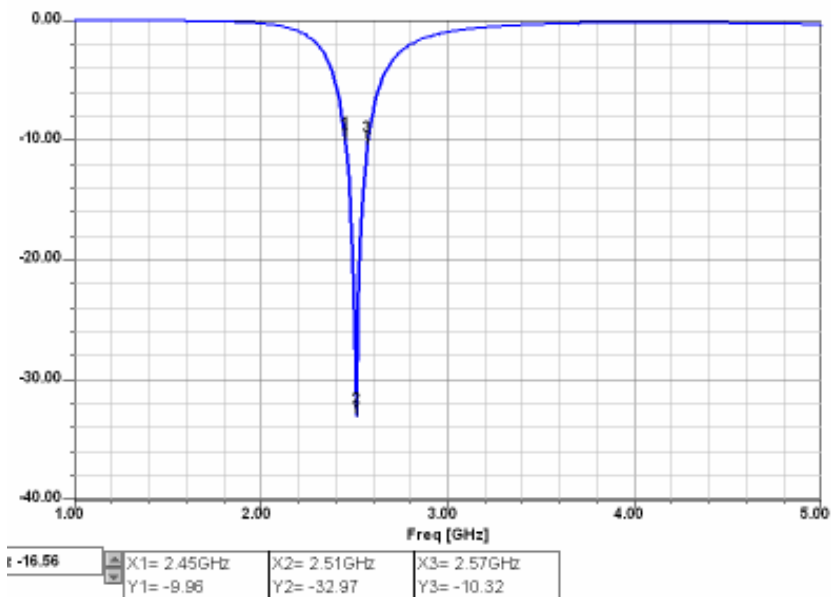


Smith PCB :

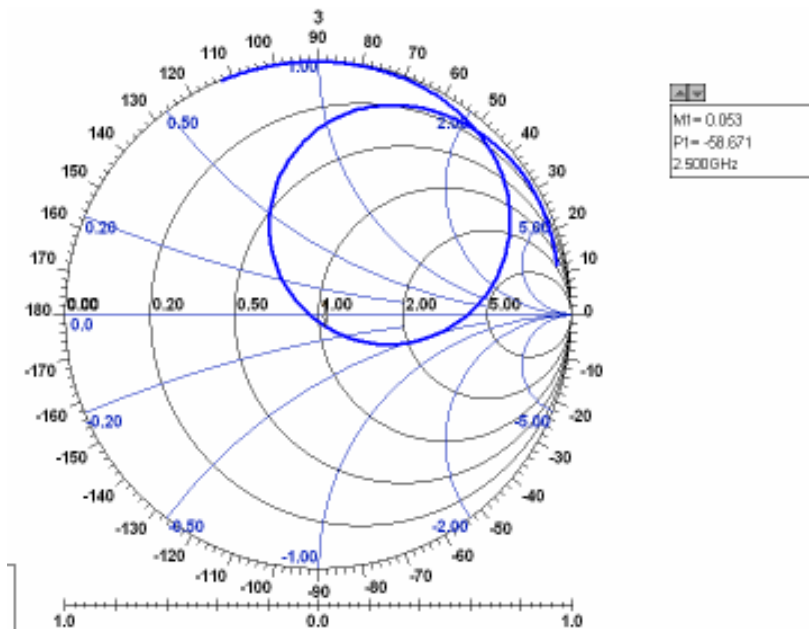




S11 PCB+battery

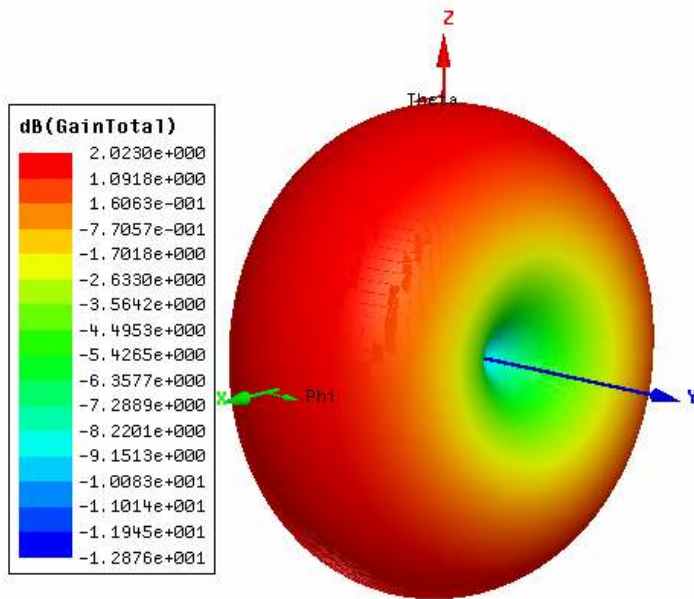


Smith PCB+battery





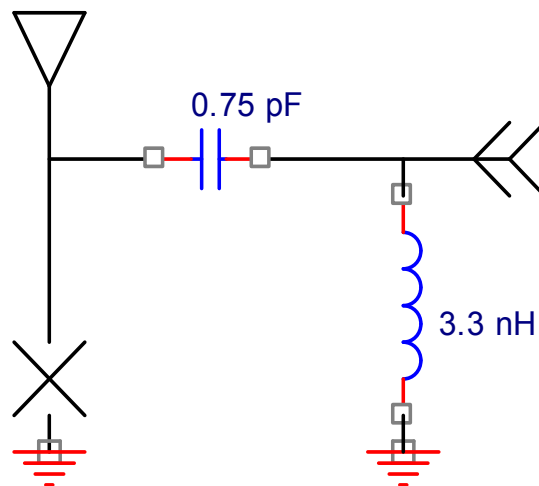
3D Pattern PCB :



3. Test Procedure

1. Match antenna to 50Ω use L and C in T type.

2. Finally match vaule:





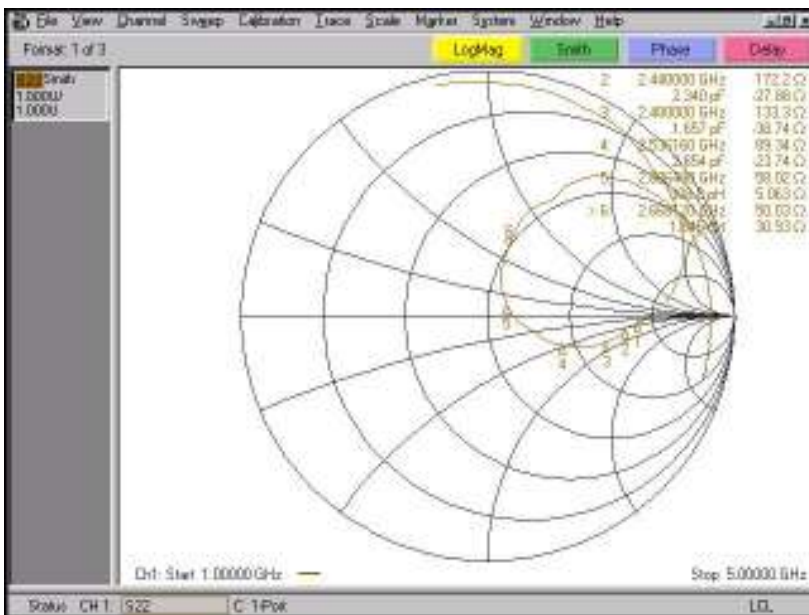
4. Test Result

Measurement:

0 ohm_s11 only pcb



0 ohm_smith only pcb

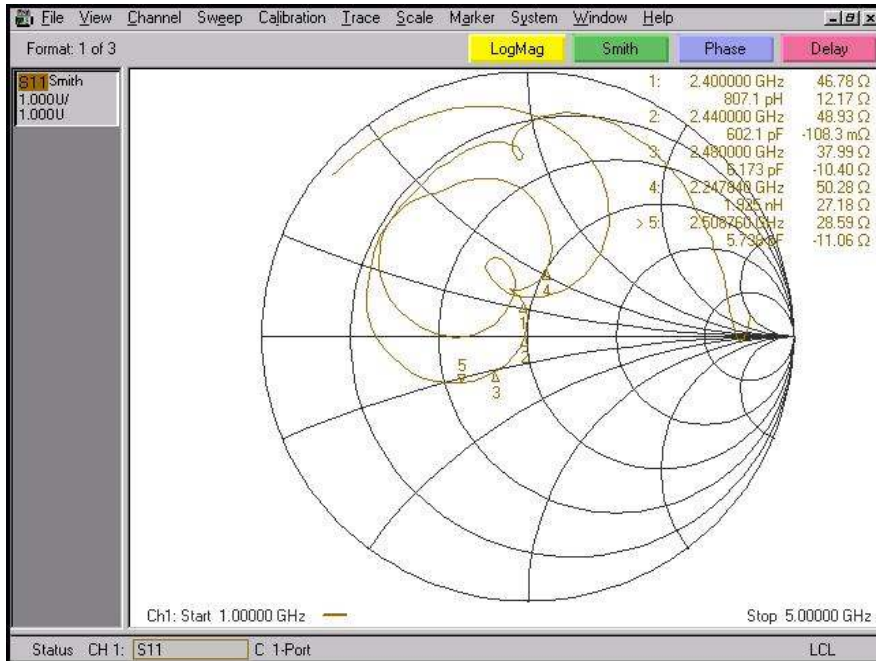




--0.75pF---3.3nH_S11 ALL+Head



--0.75pF---3.3nH_Smith ALL+Head





I.S.S.C.
Integrated System
Solution Corp.

BTHS02 mono Antenna Test Report

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5. Conclusion

After match , measurement antenna

BW:280 MHz

Freq:2.22~2.50GHz

Antenna peak gain:2.023dB

I.S.S.C. —