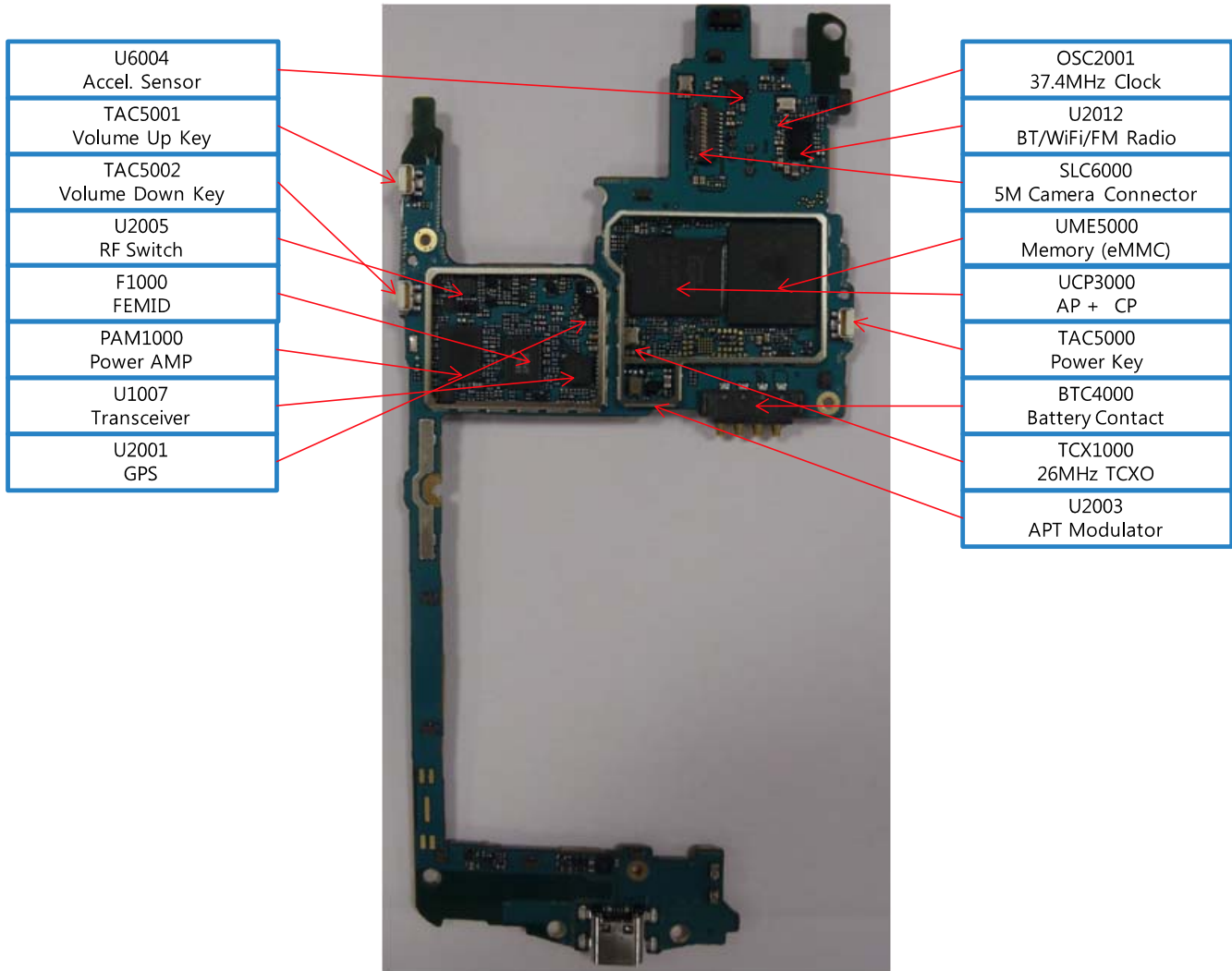


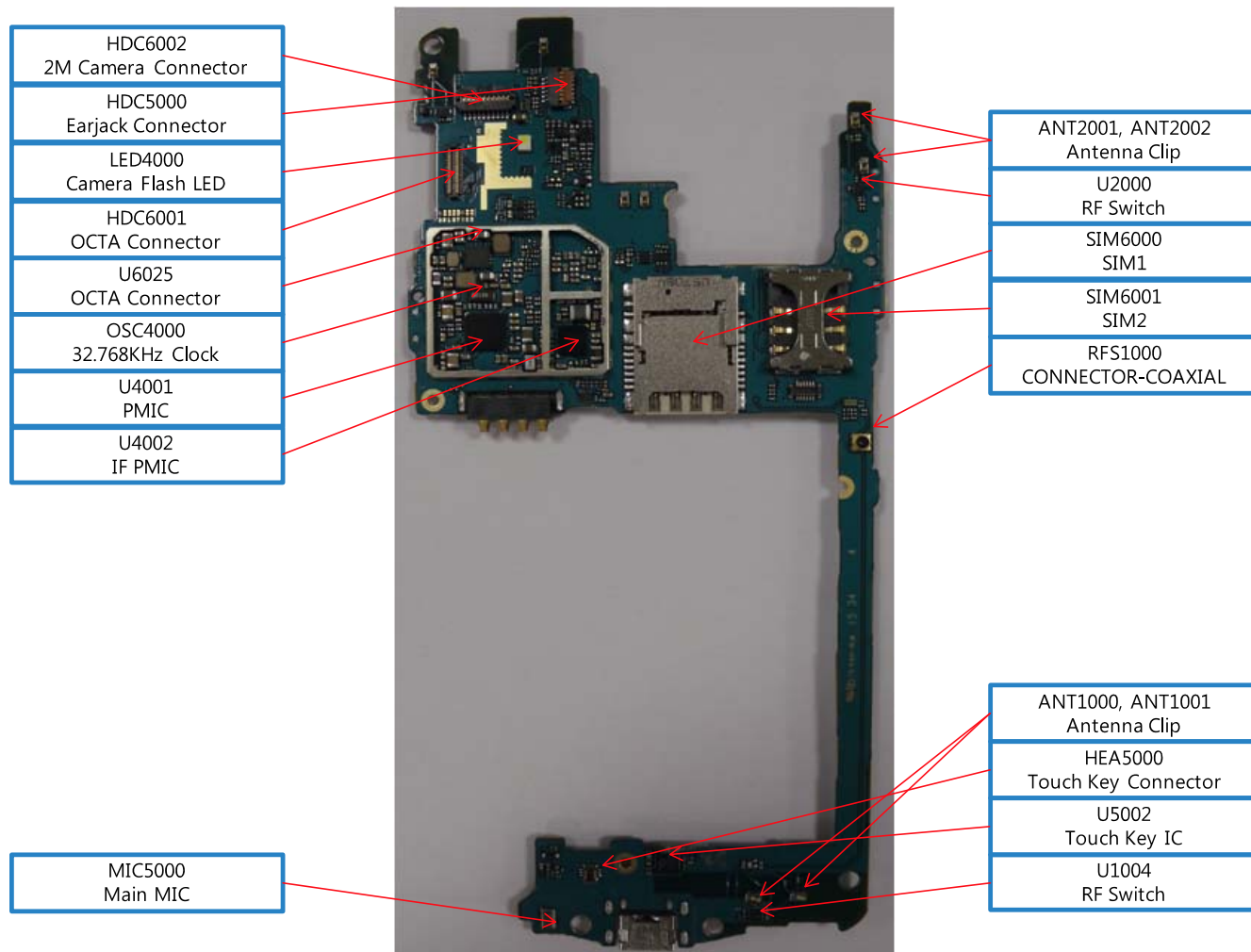
8. Level 3 Repair

8-1. Components Layout

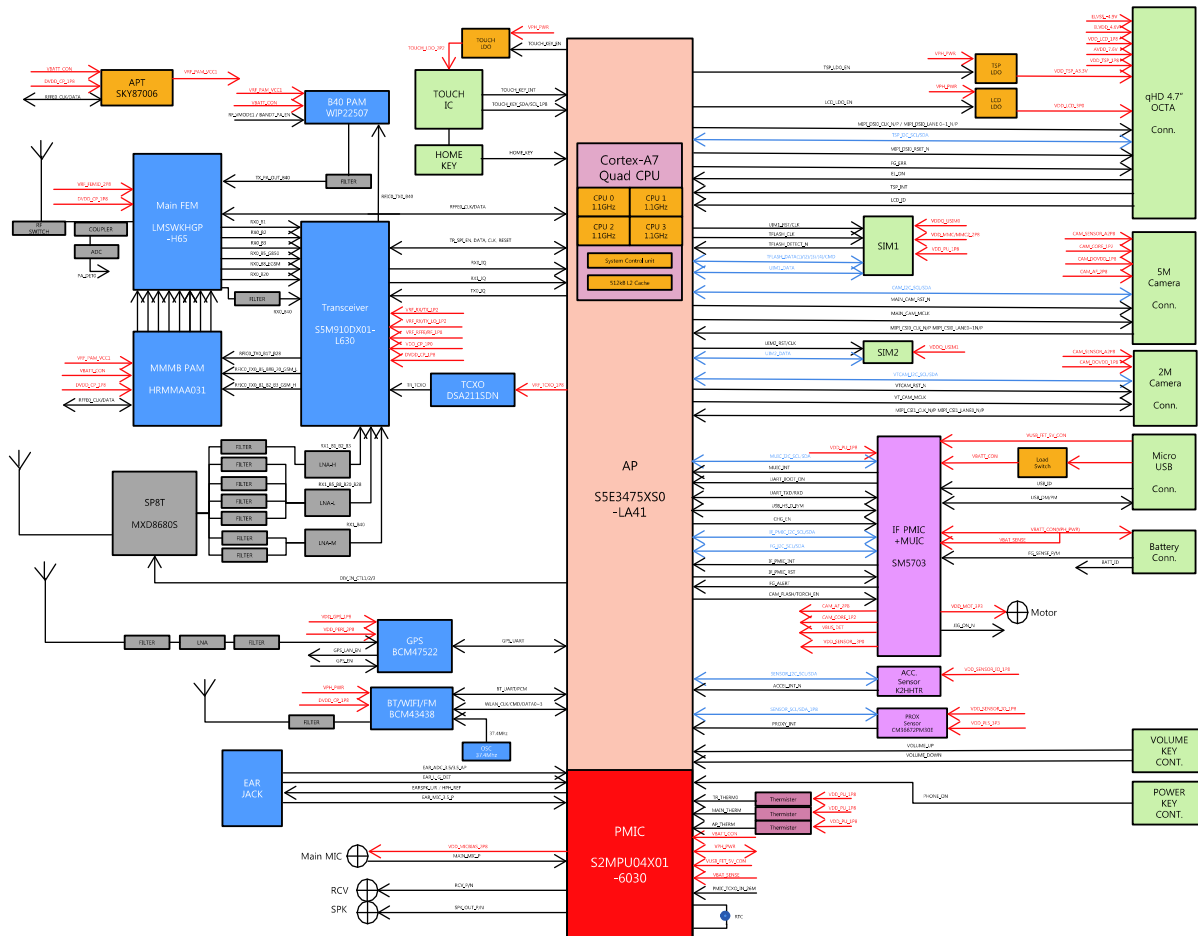
PBA (TOP SIDE)

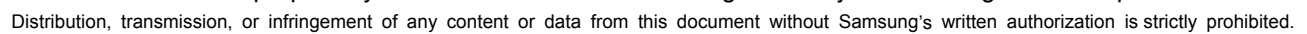


PBA (BOTTOM SIDE)

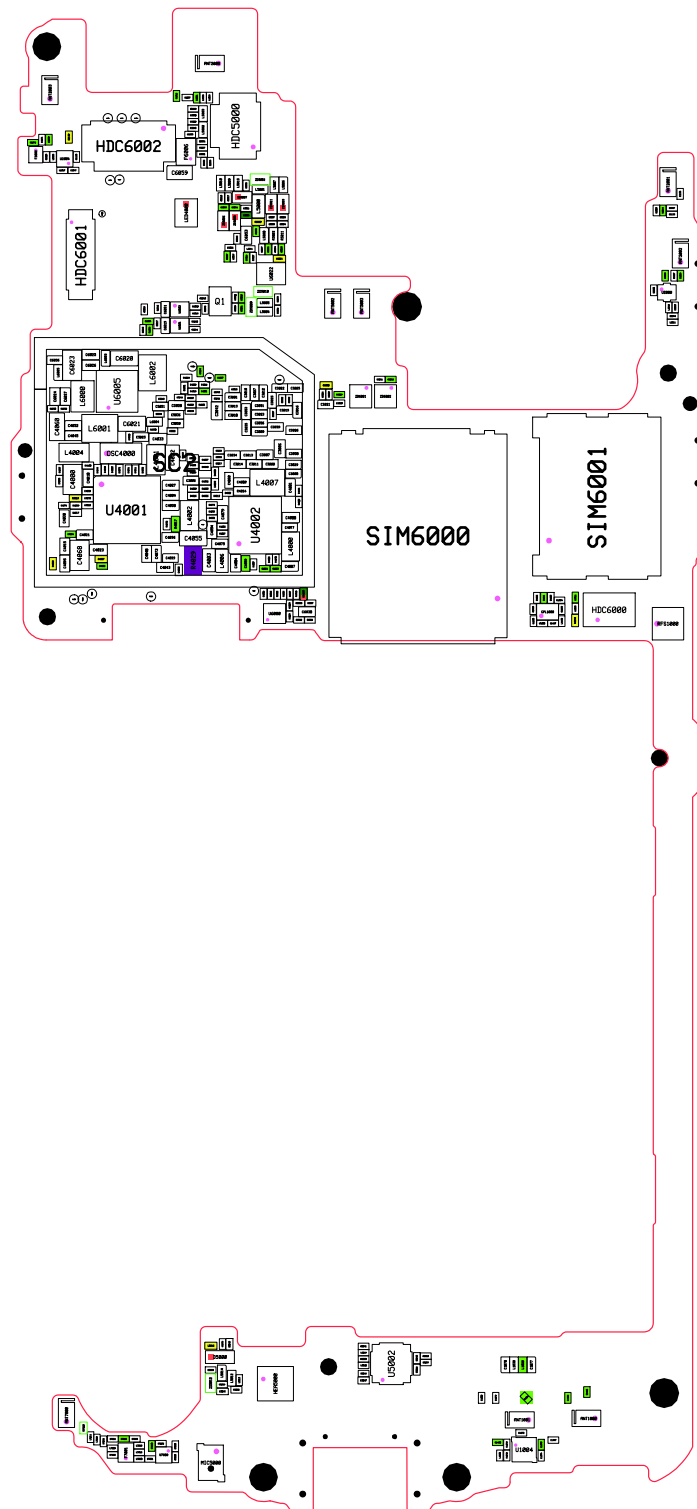


8-2. Block Diagram



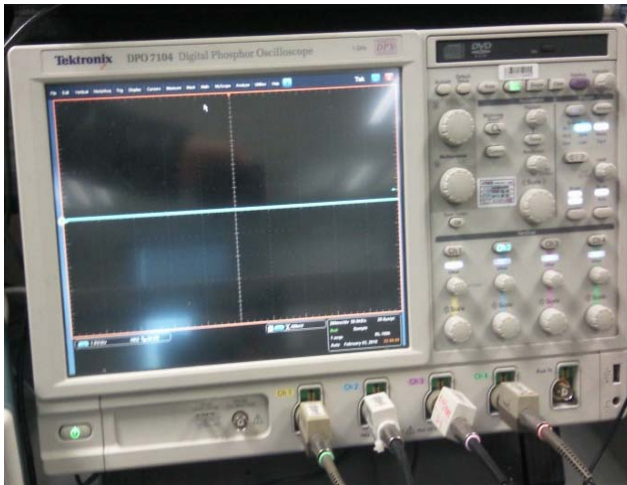


8-3-2. Bottom



8-4. Flow Chart of Troubleshooting

Equipments



↑ Oscilloscope



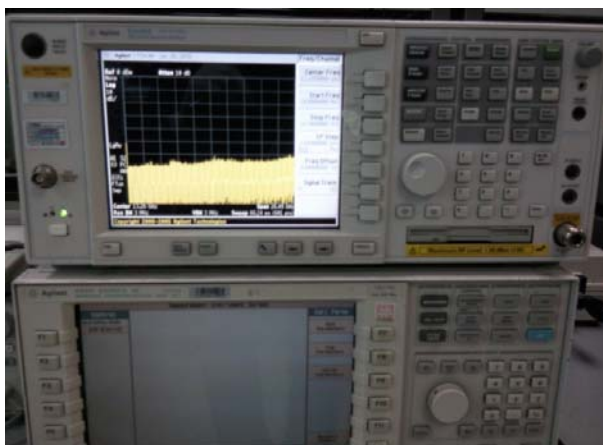
↗ Digital Multi-meter



↗ Power Supply



↗ + driver, ESD Safe Tweezer

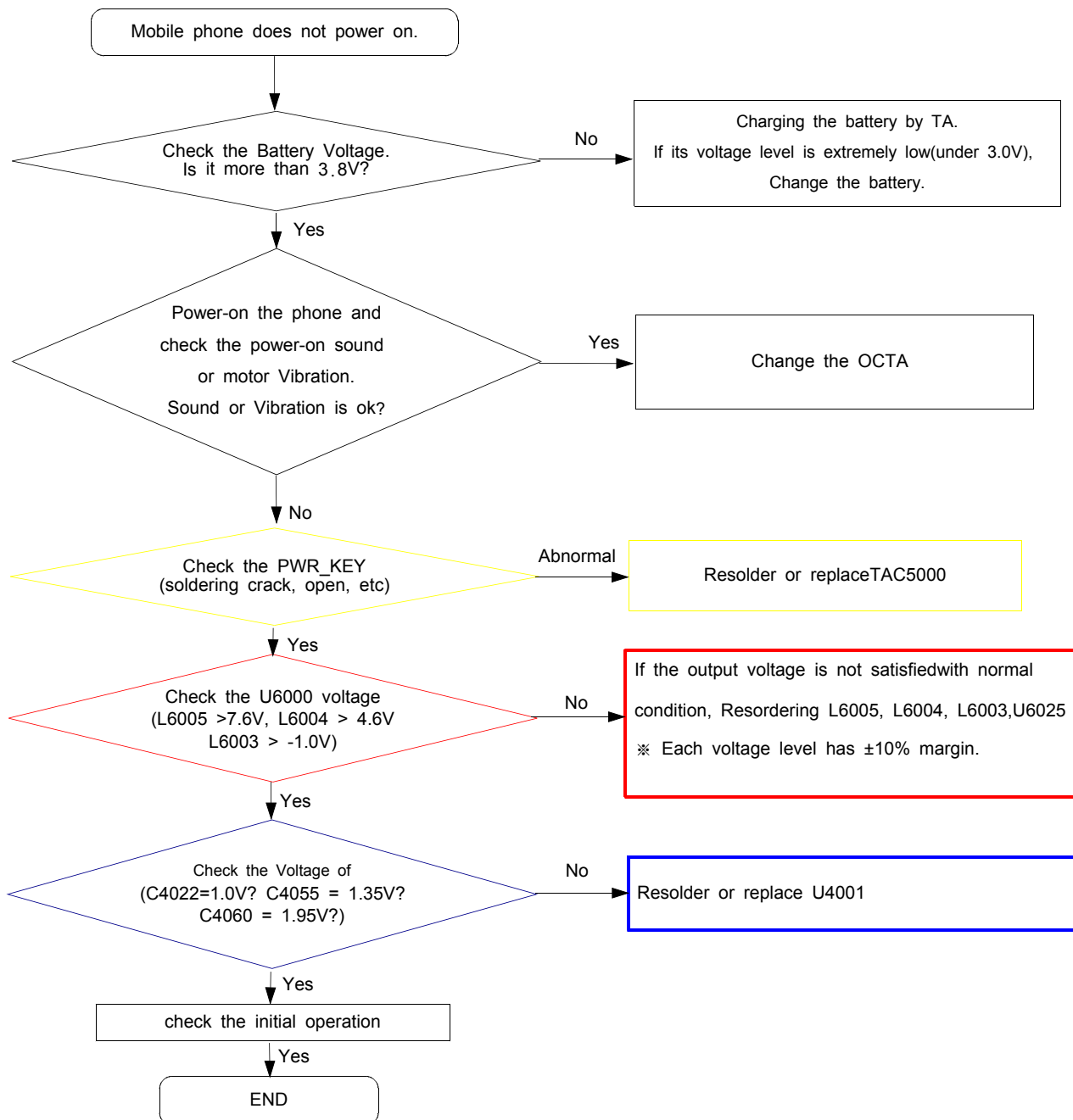


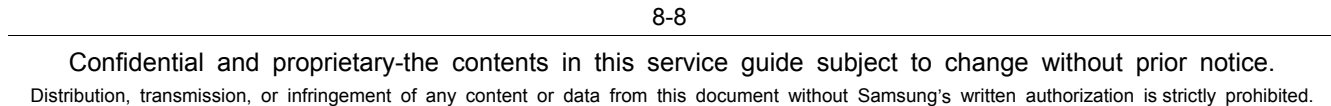
↑ 8960 & Spectrum Analyzer



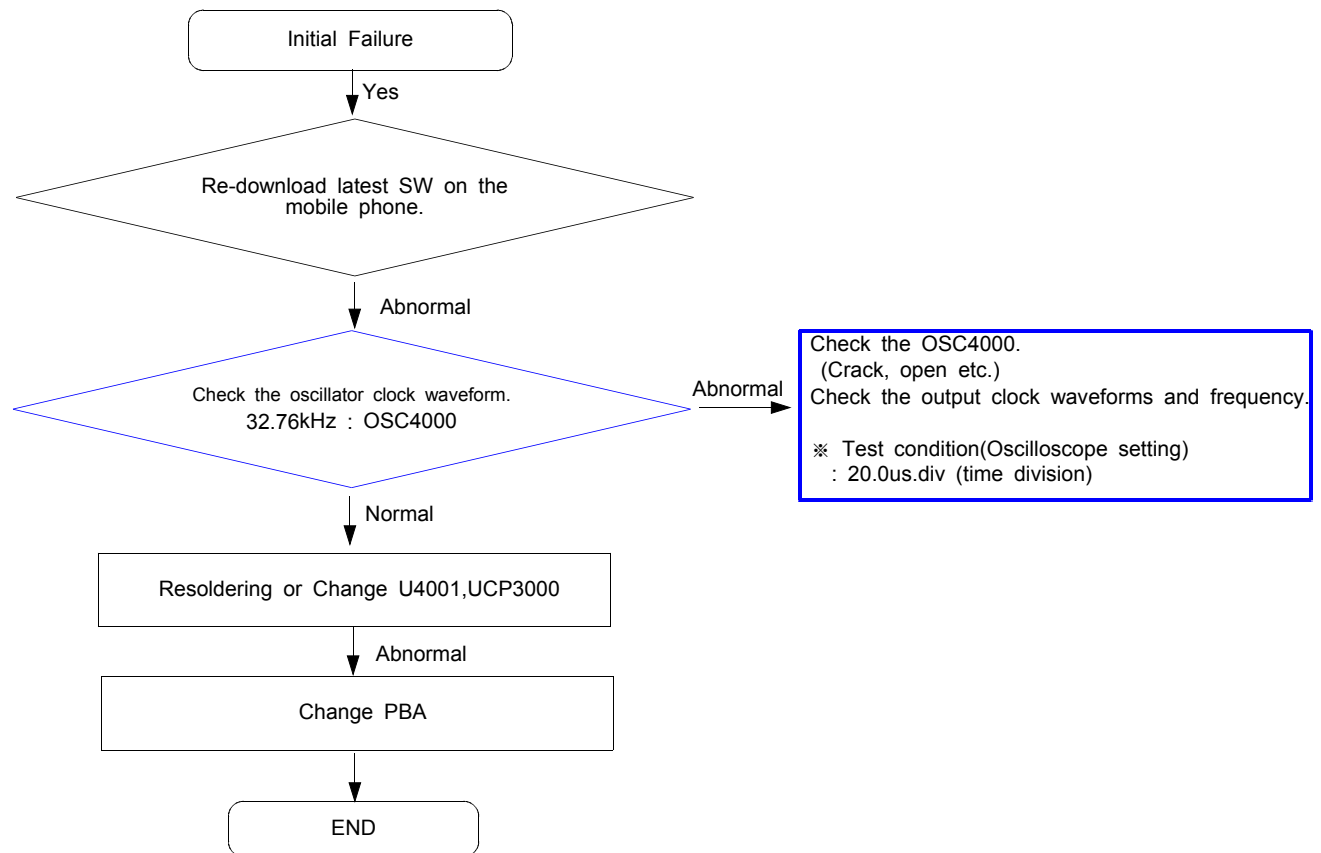
↗ Soldering iron

8-4-1. Power On

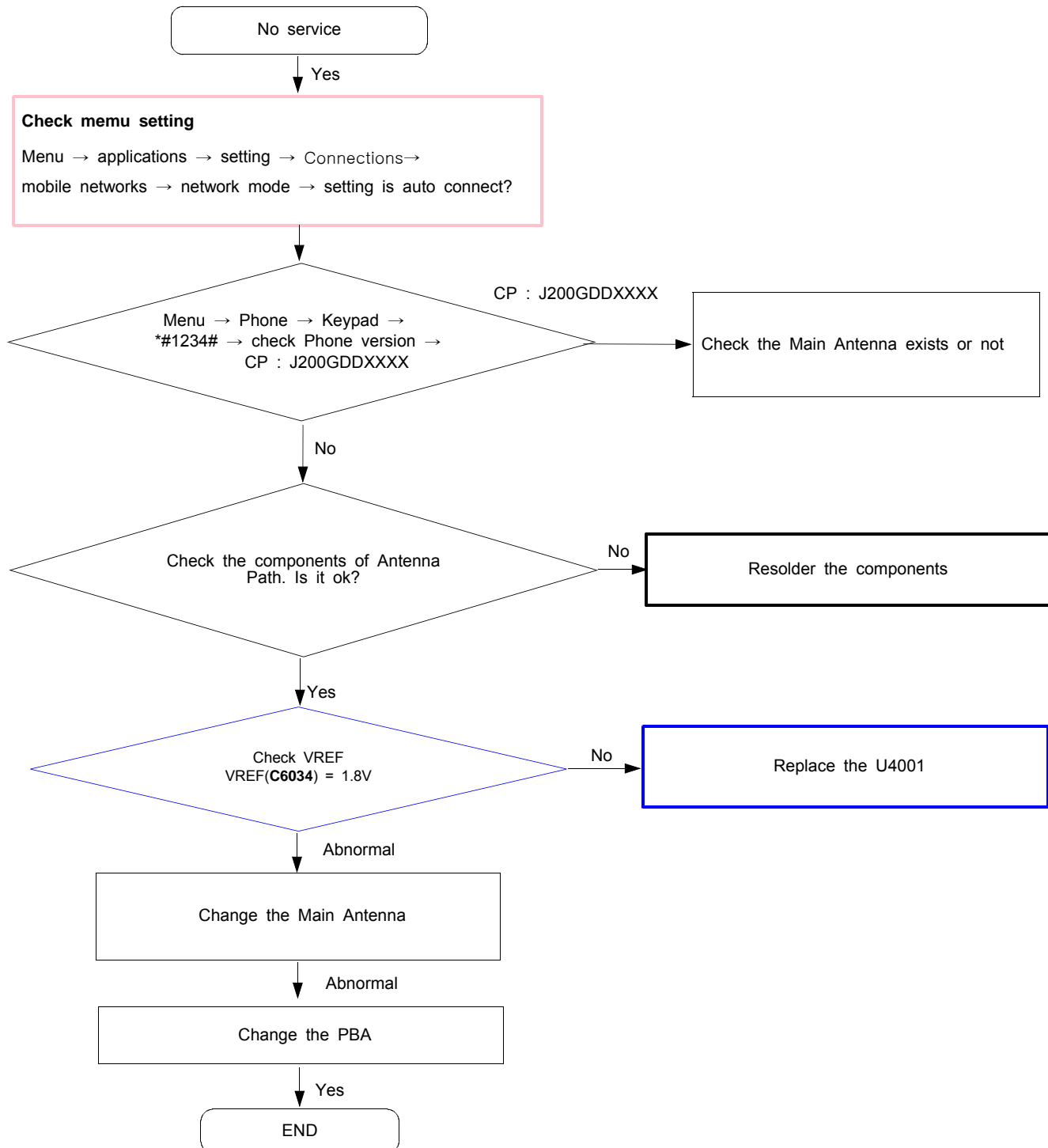


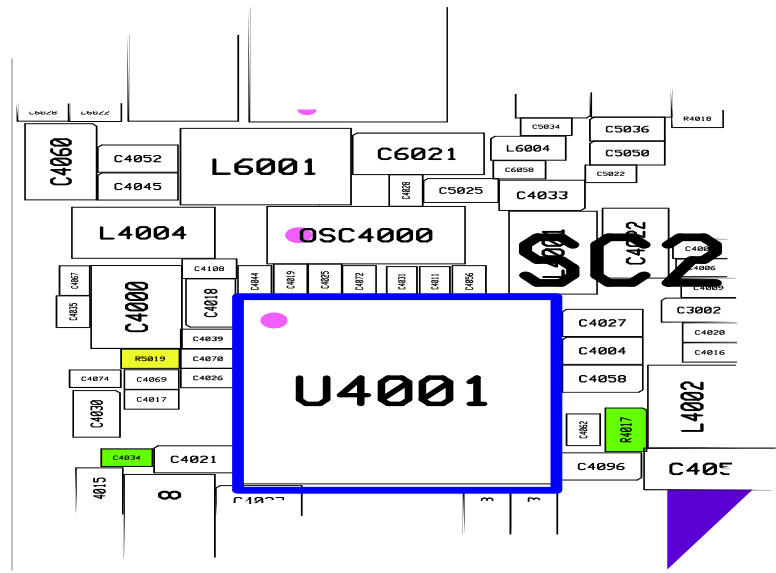


8-4-2. Initial



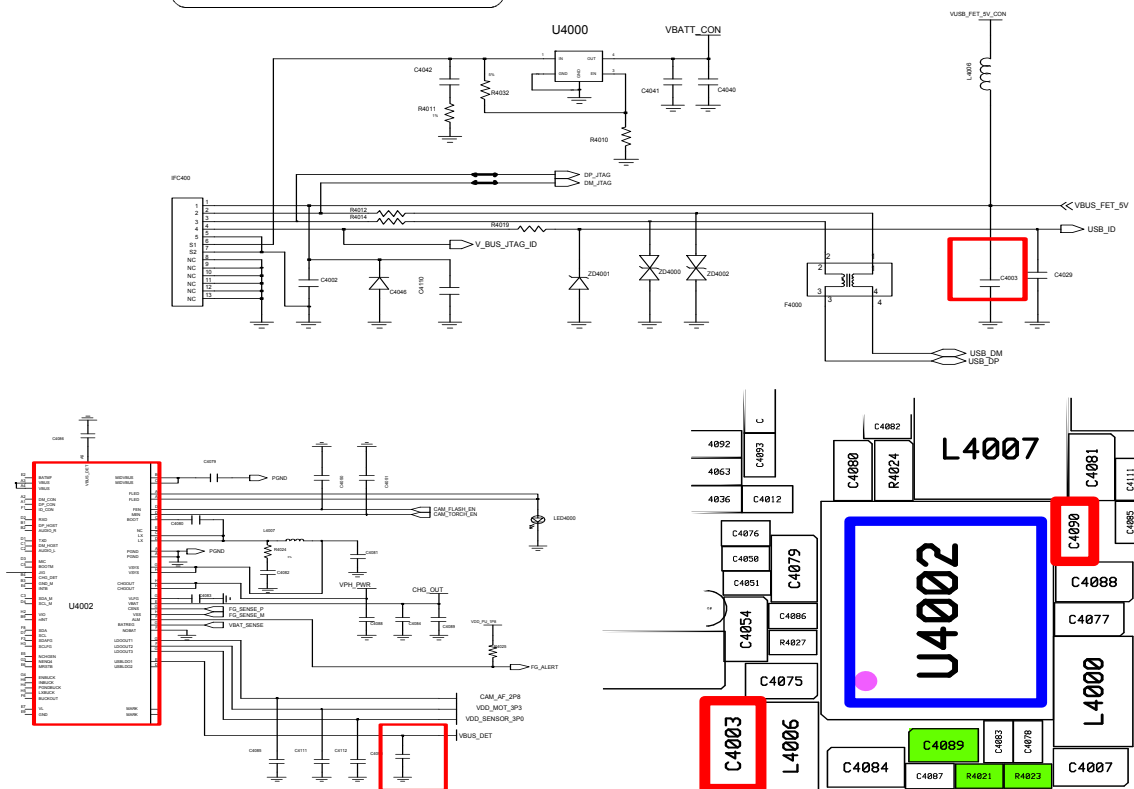
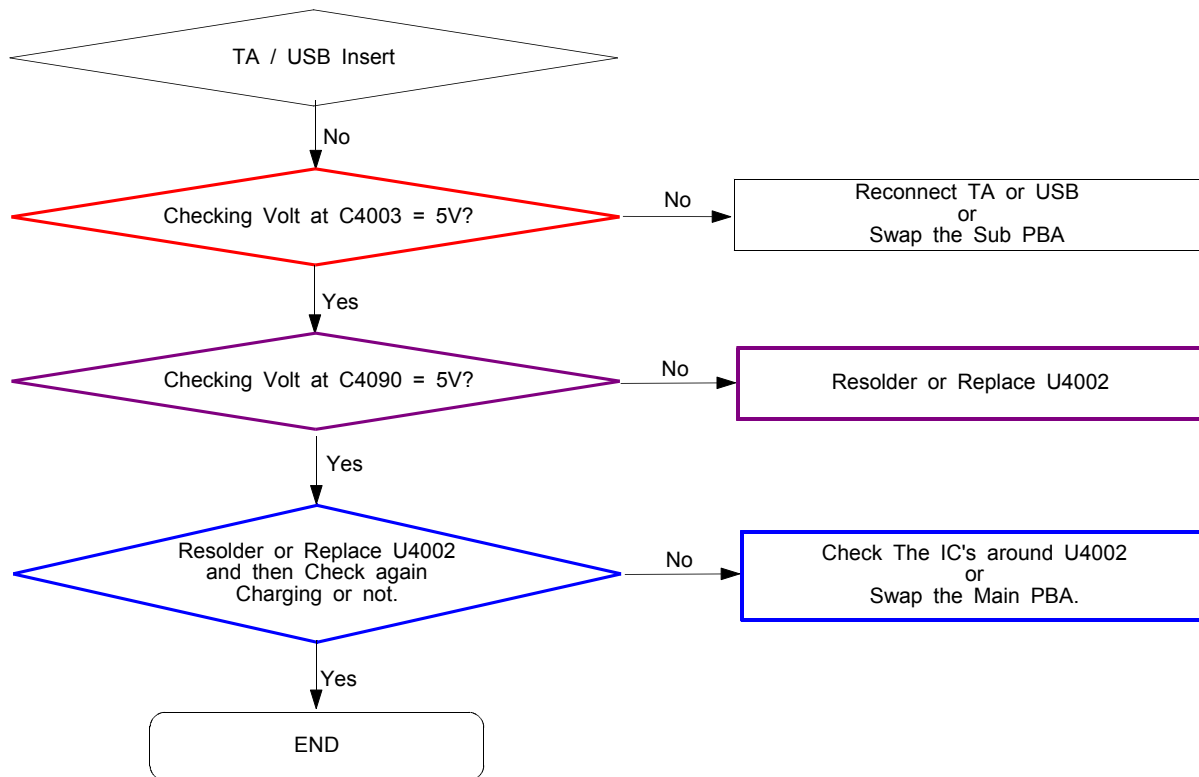
8-4-3. No Service



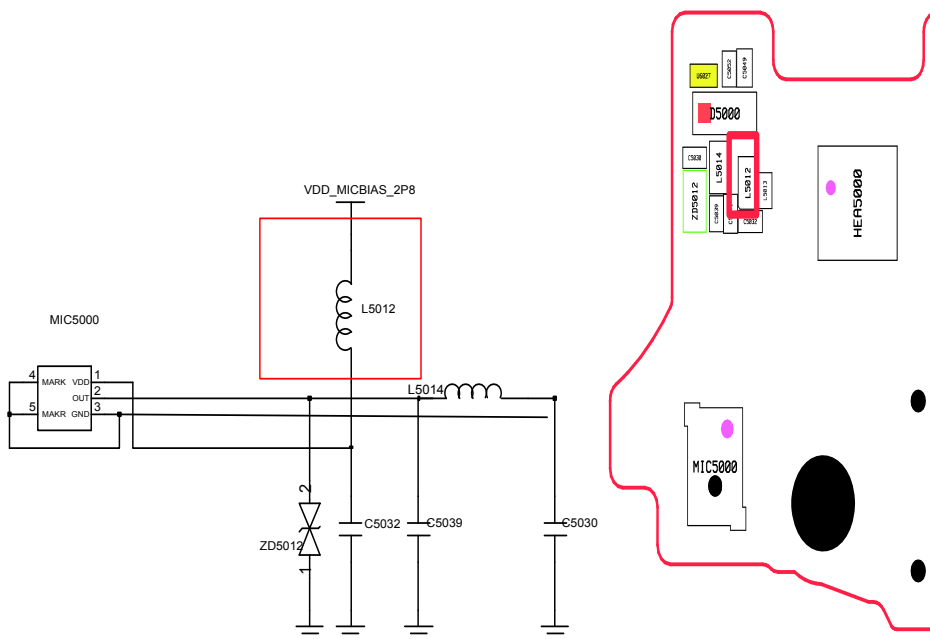
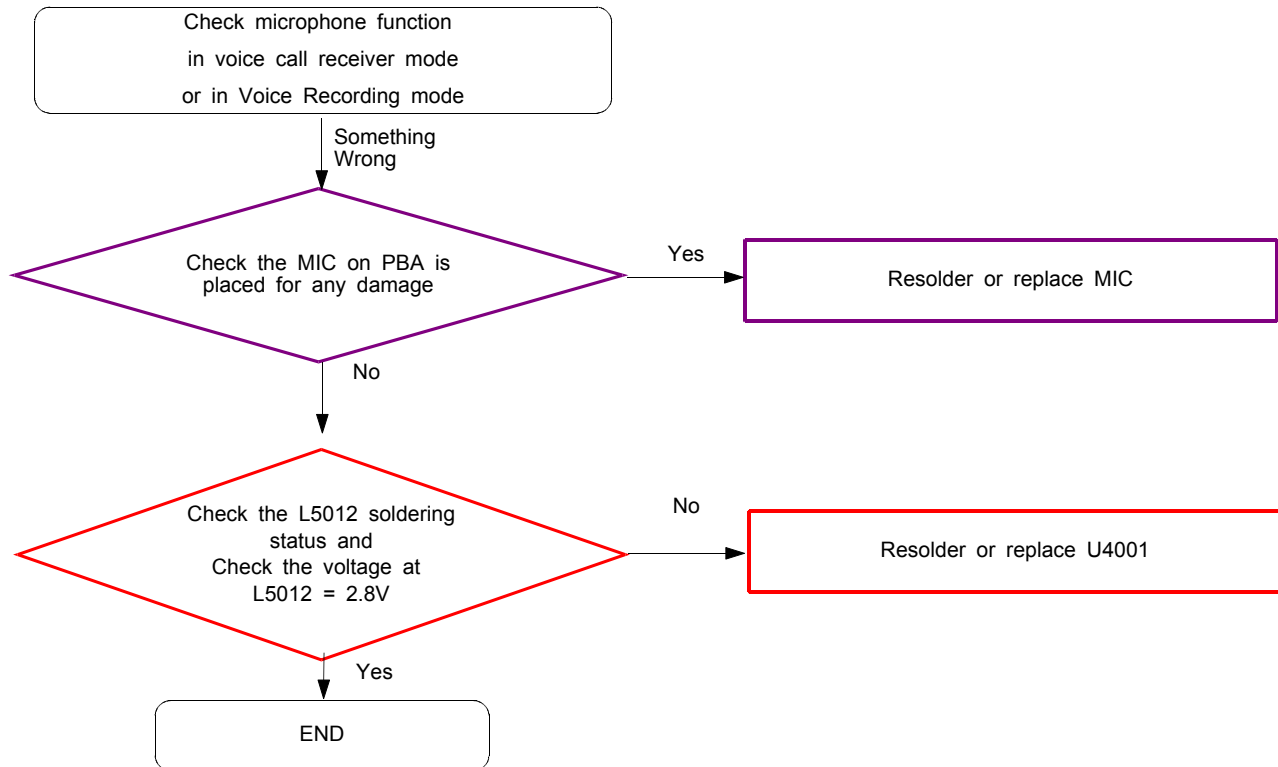


8-4-5. Charging Part

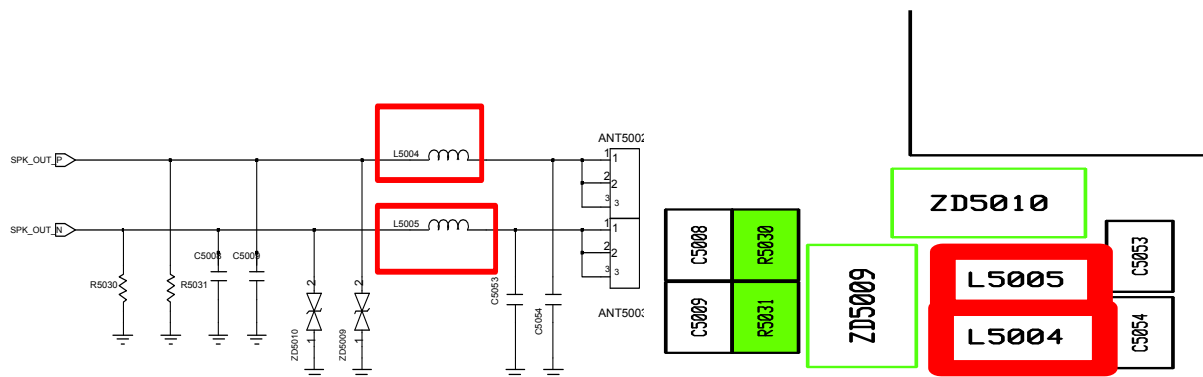
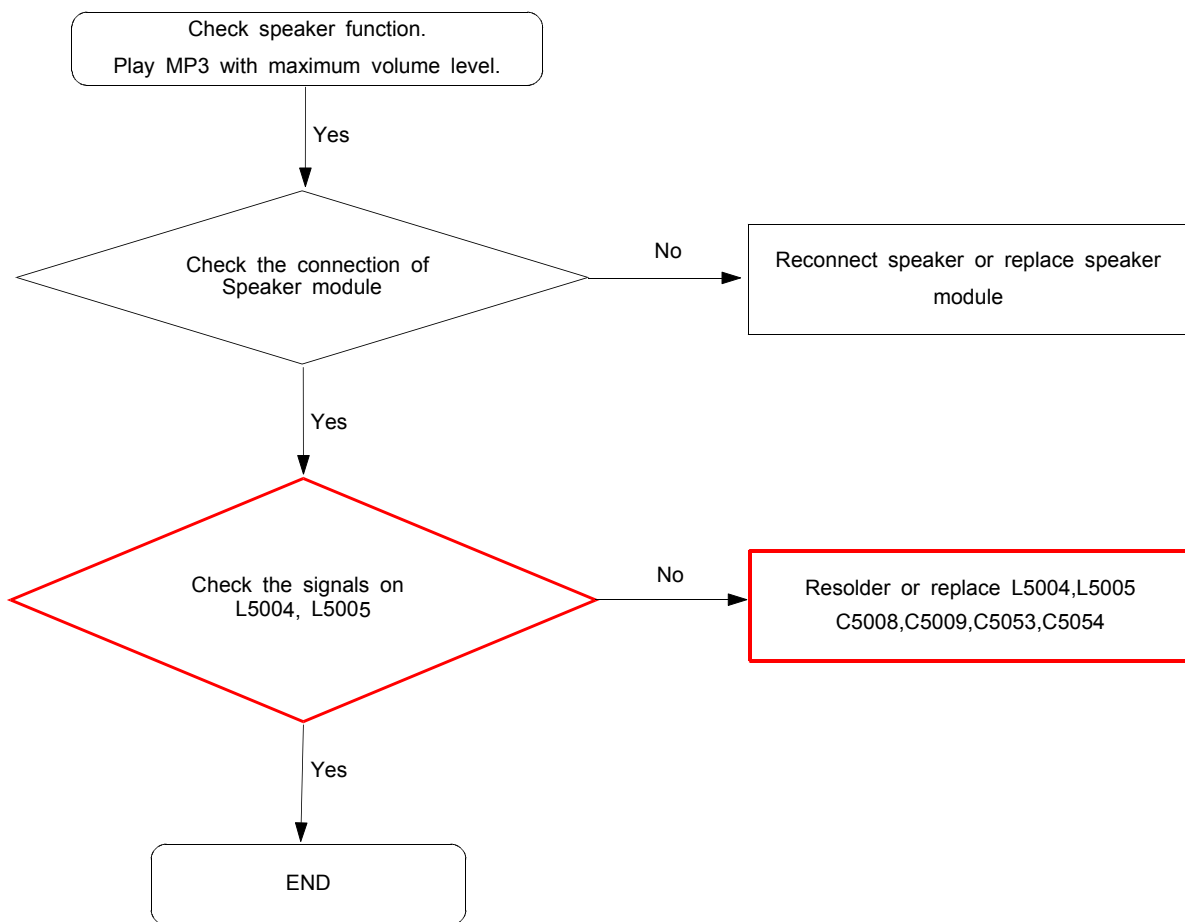
- First of all, Please check the battery status.



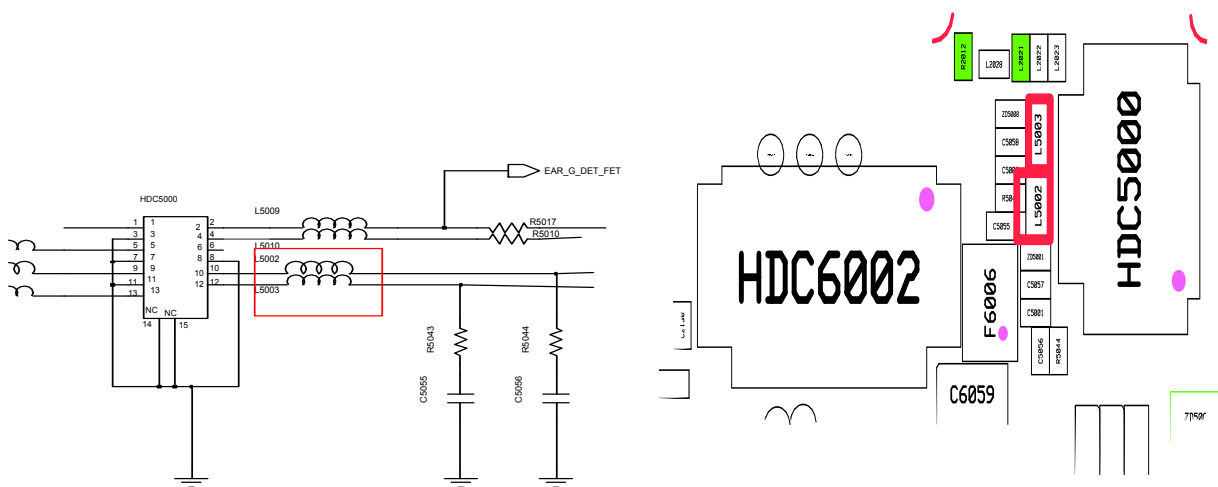
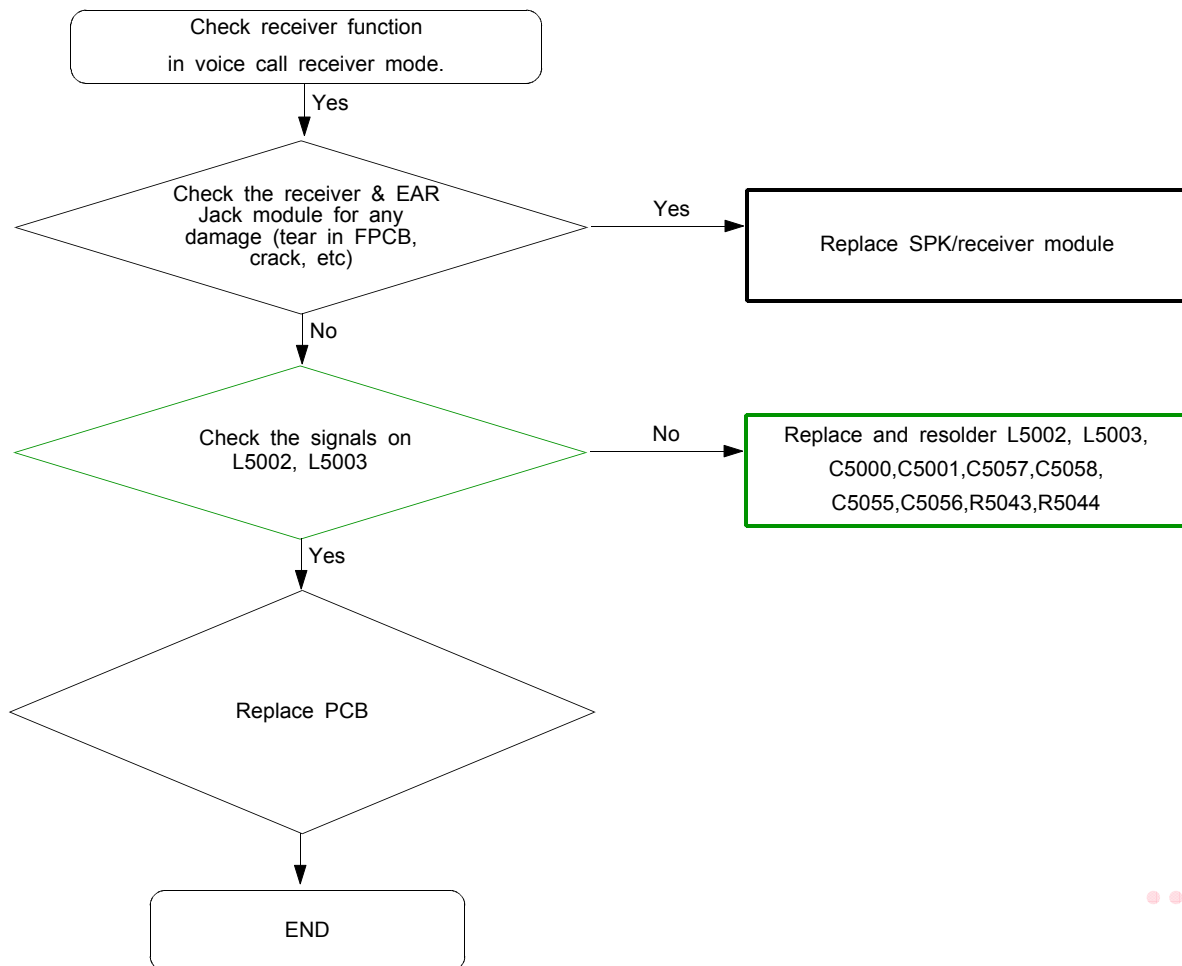
8-4-6. Microphone Part



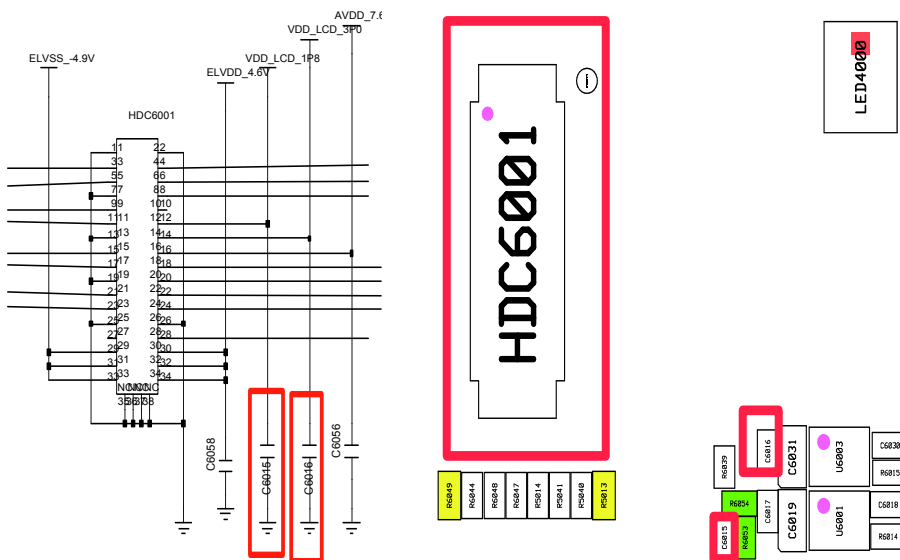
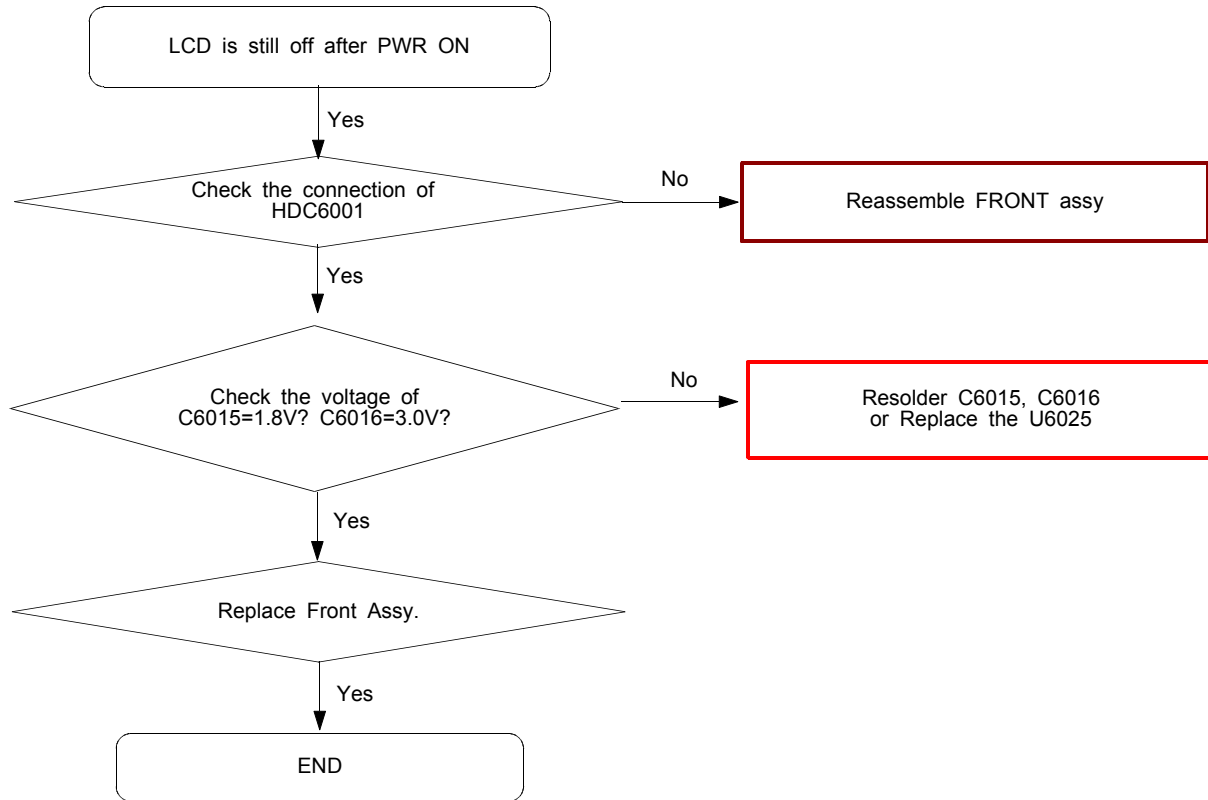
8-4-7. Speaker Part



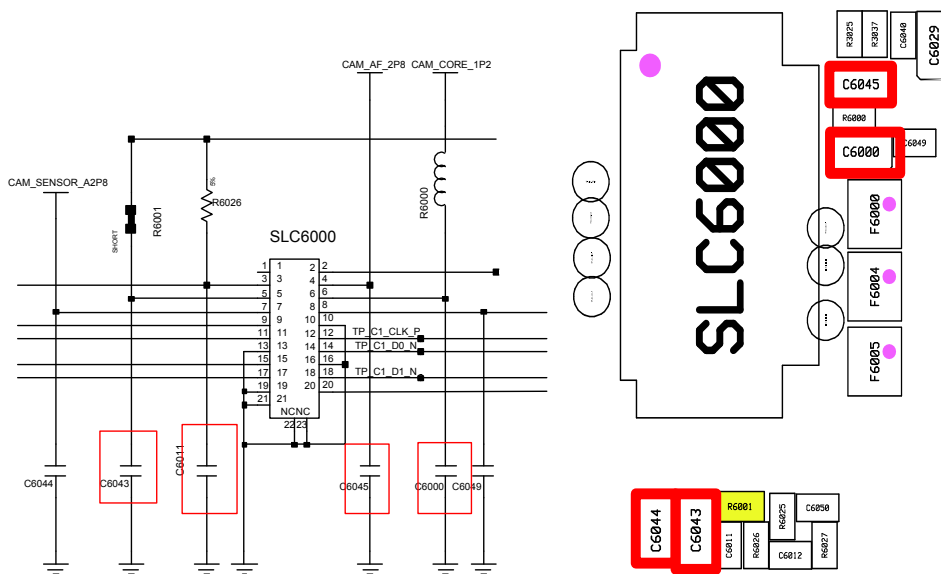
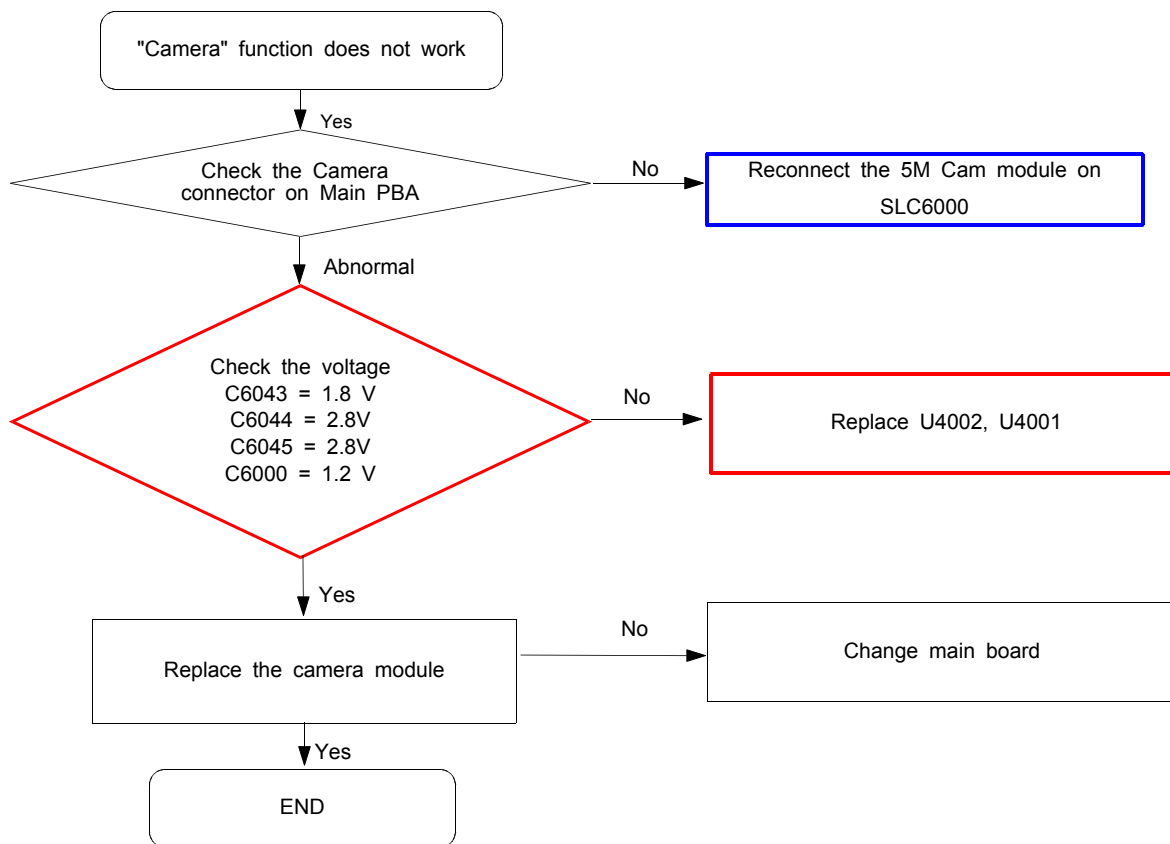
8-4-8 Receiver Part



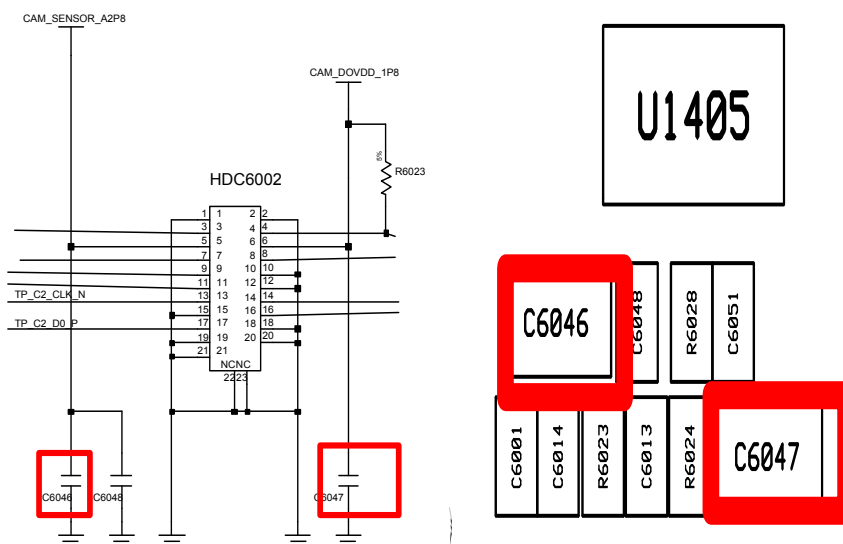
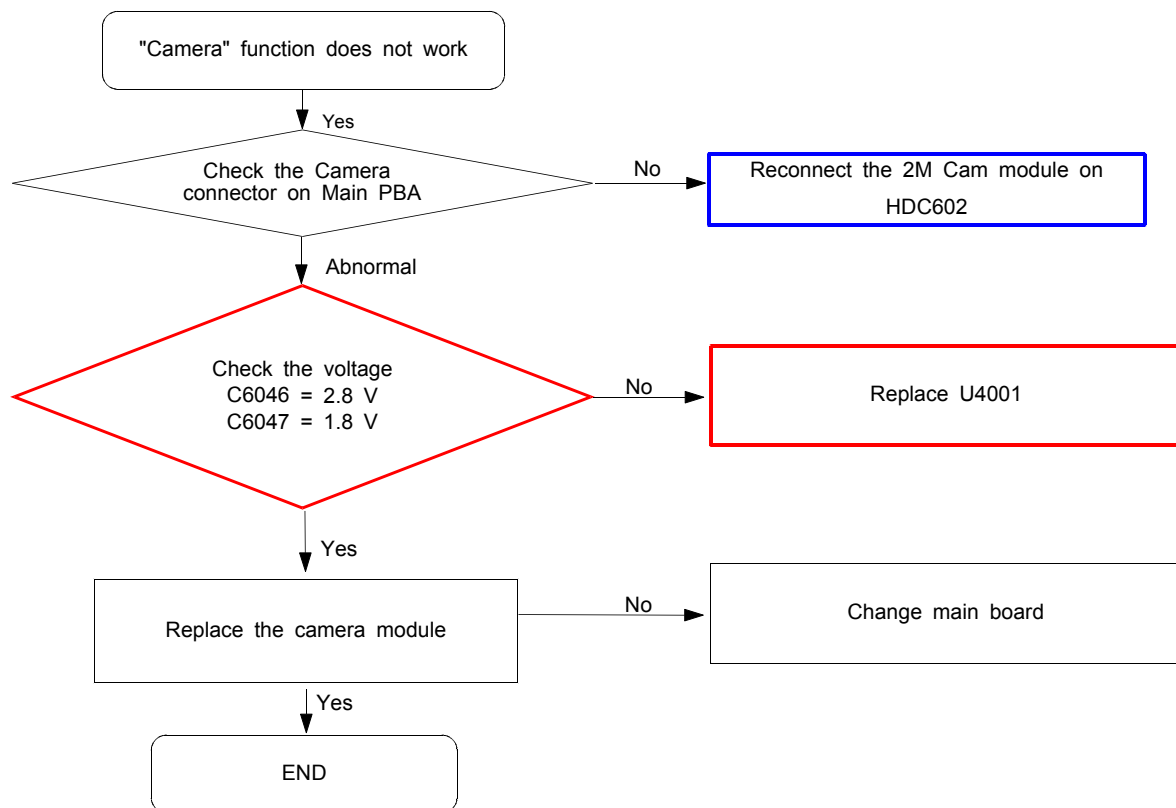
8-4-9. LCD



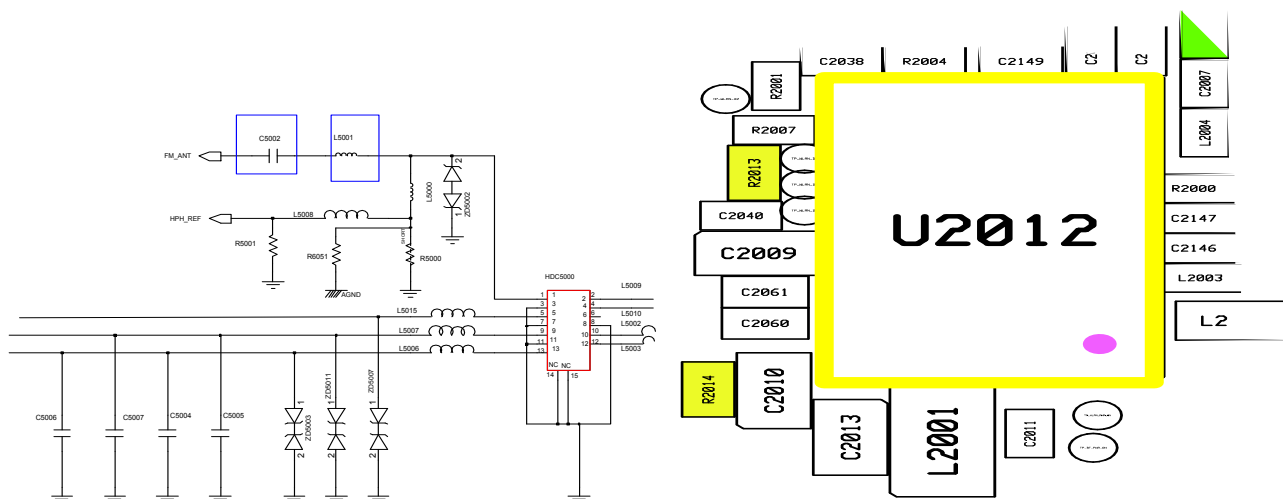
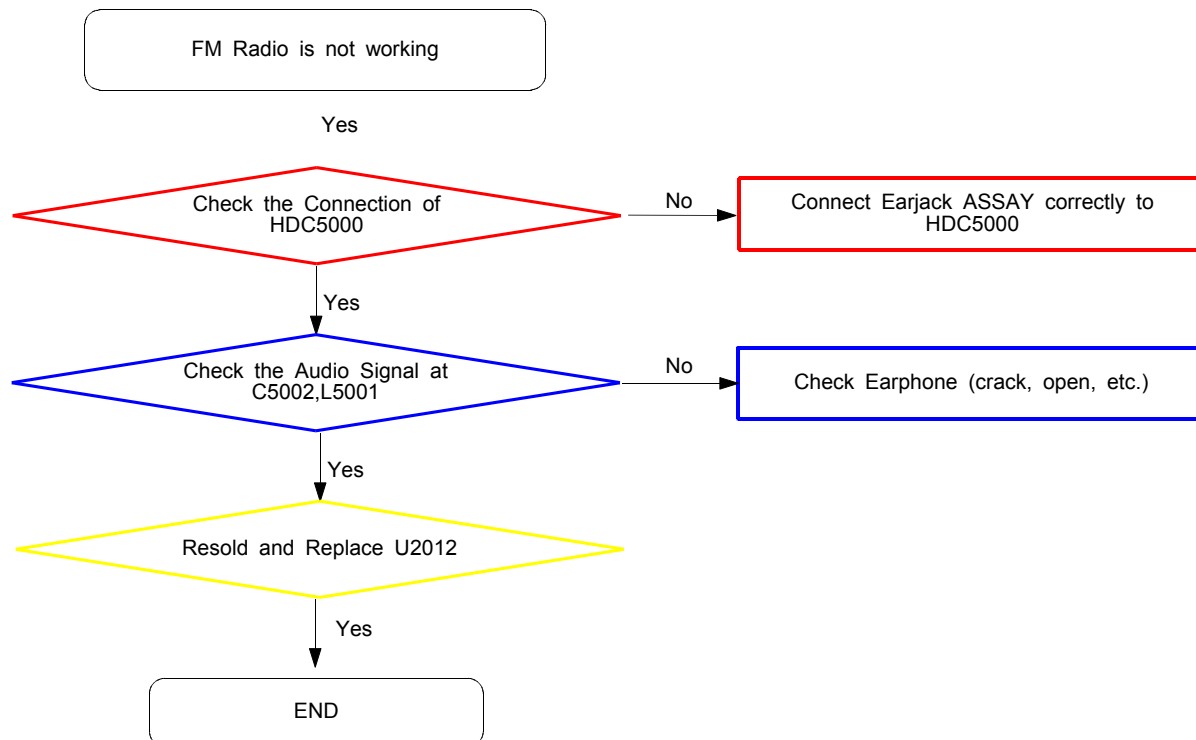
8-4-11. 5M CAM

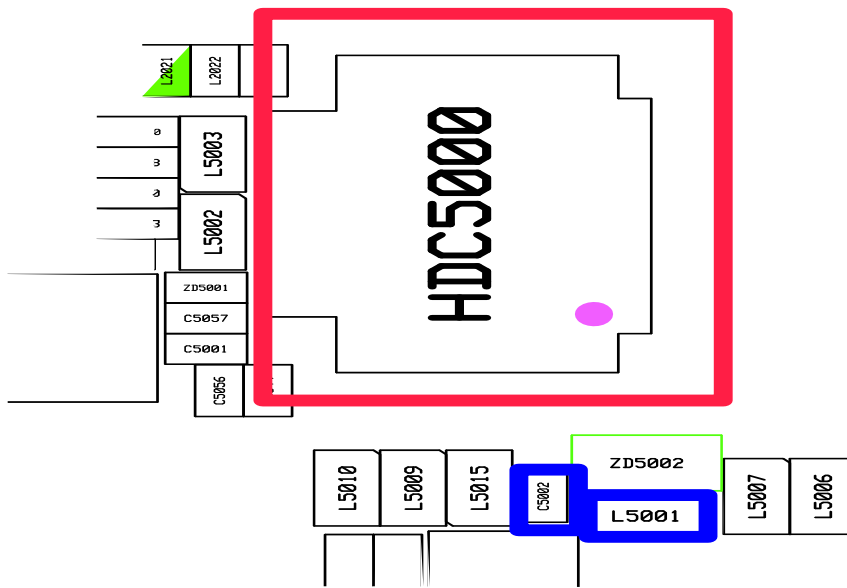


8-4-12. 2M CAM

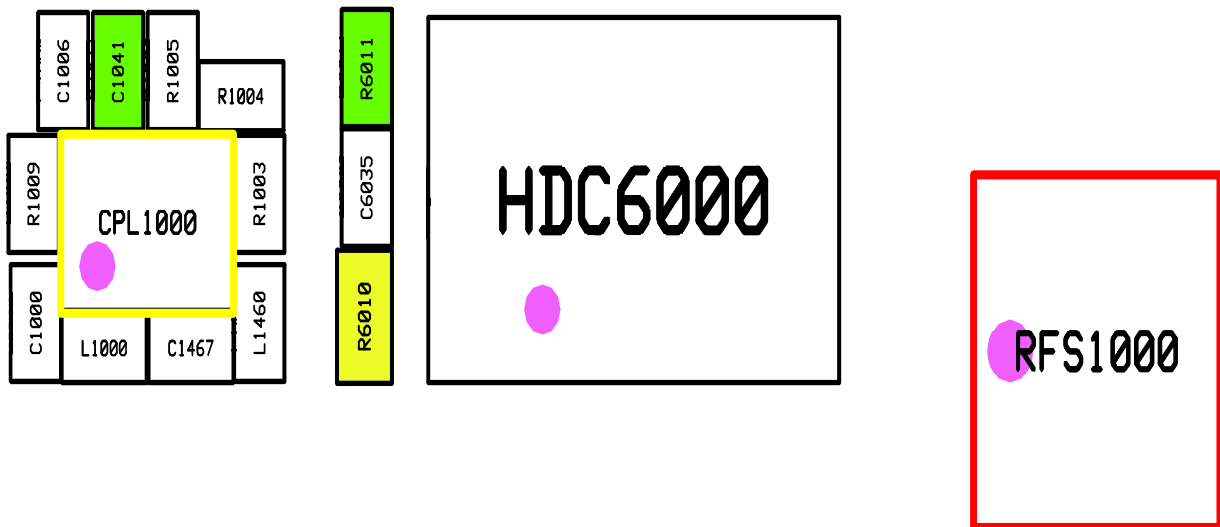
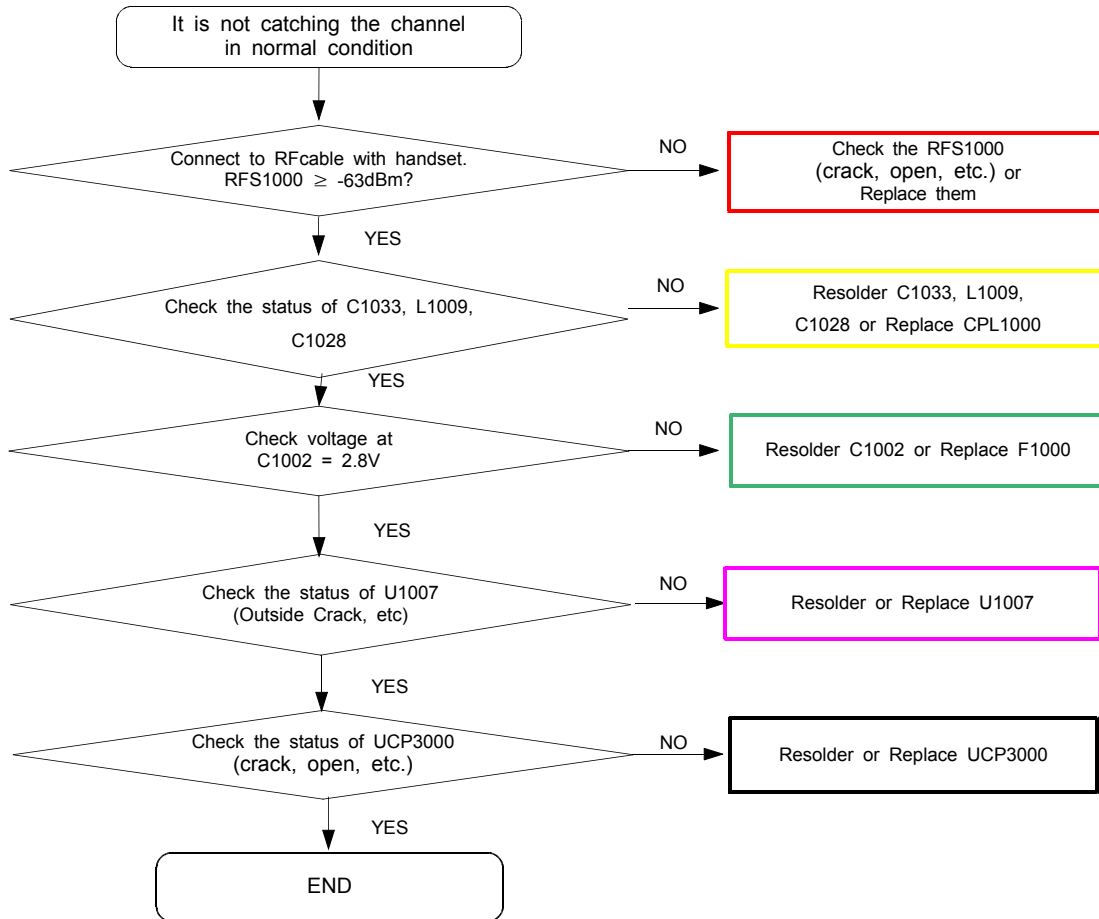


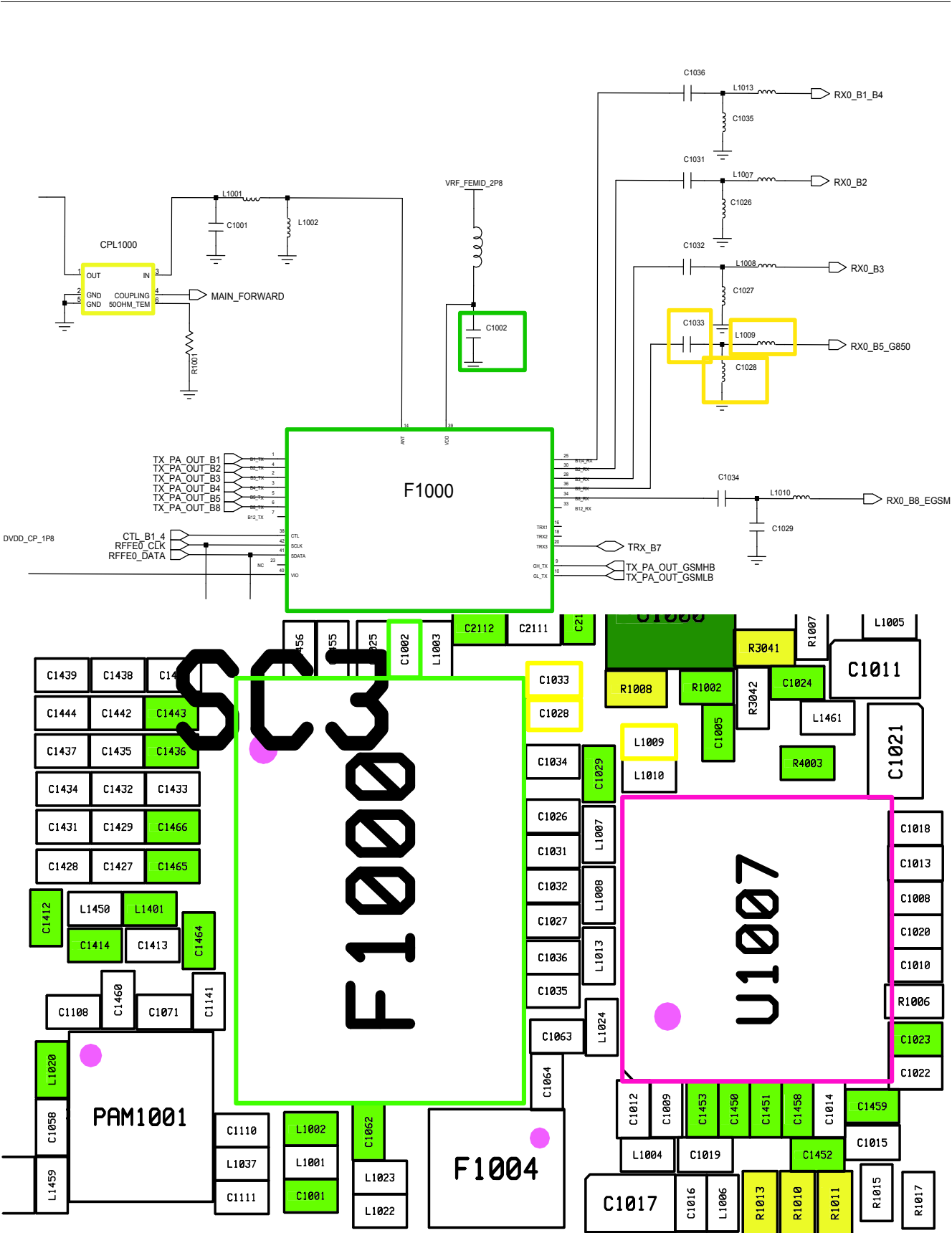
8-4-13. FM radio

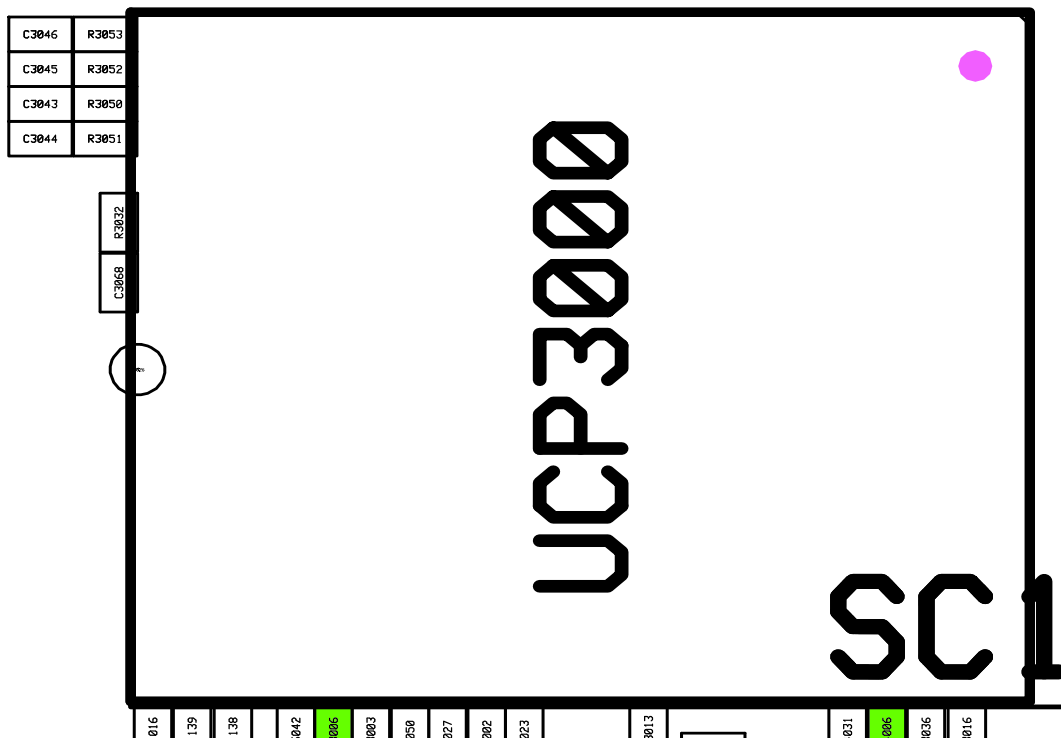
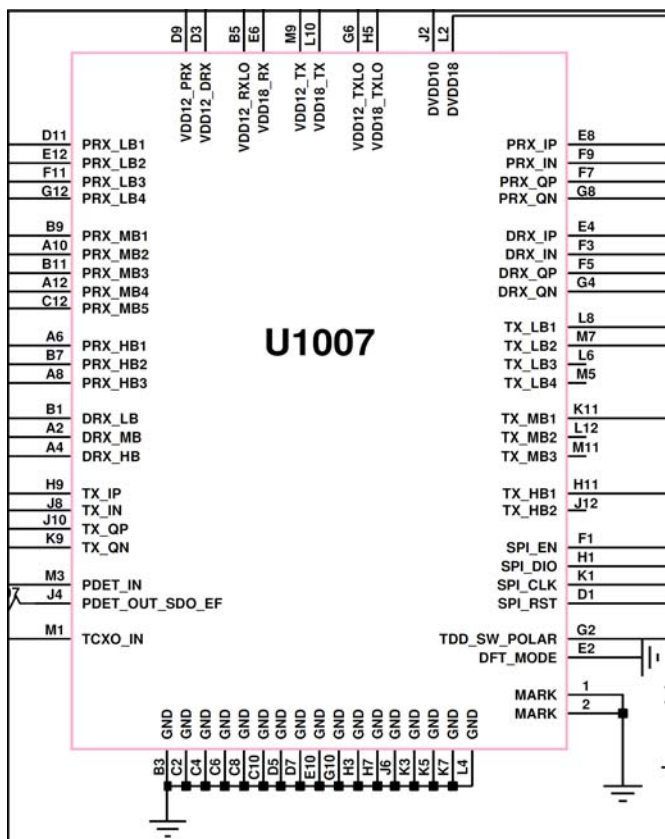




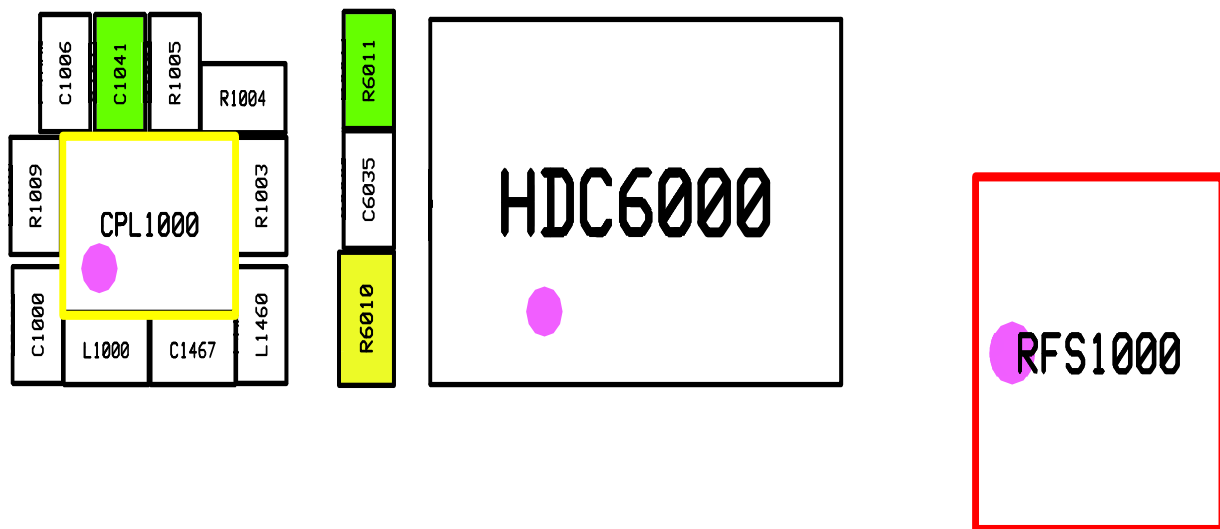
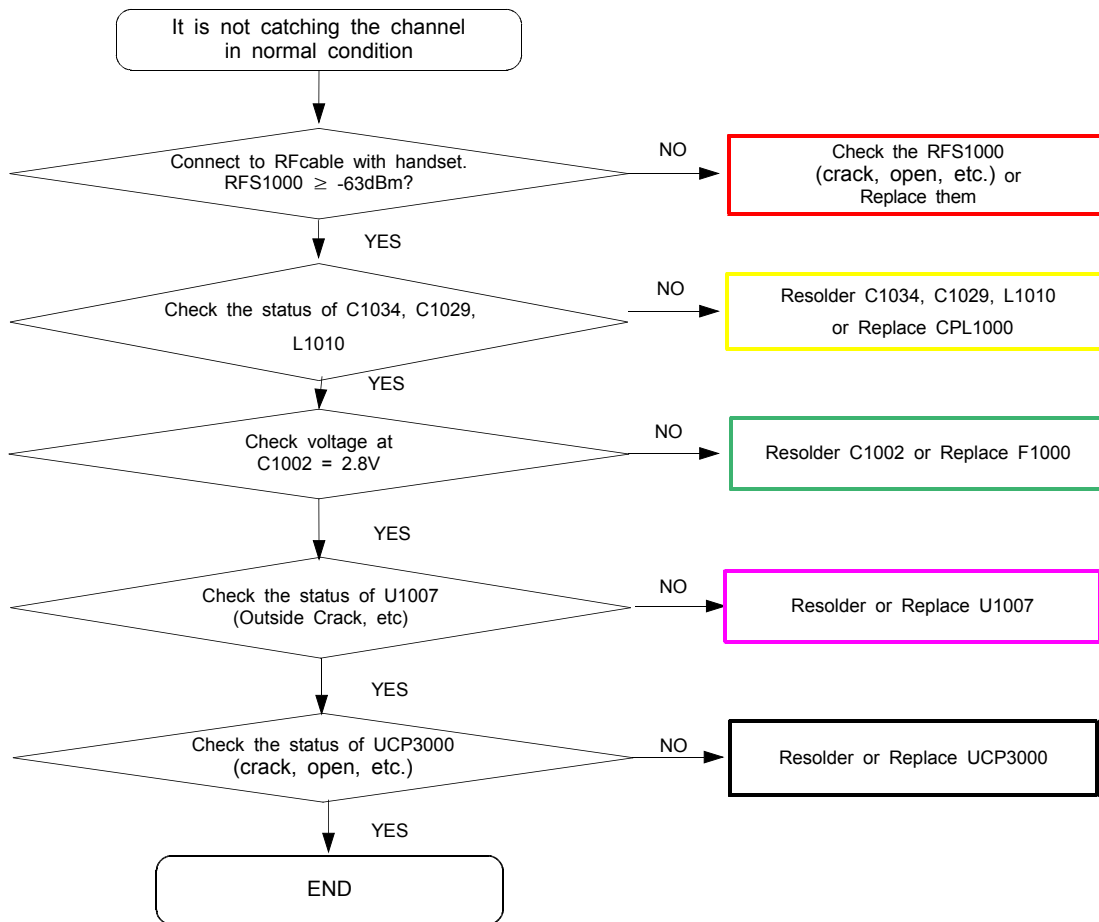
8-4-14. GSM850 / WCDMA Band5 / LTE Band5 Rx

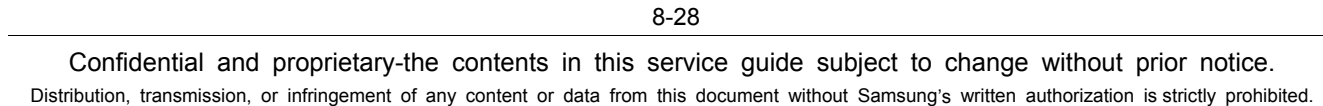


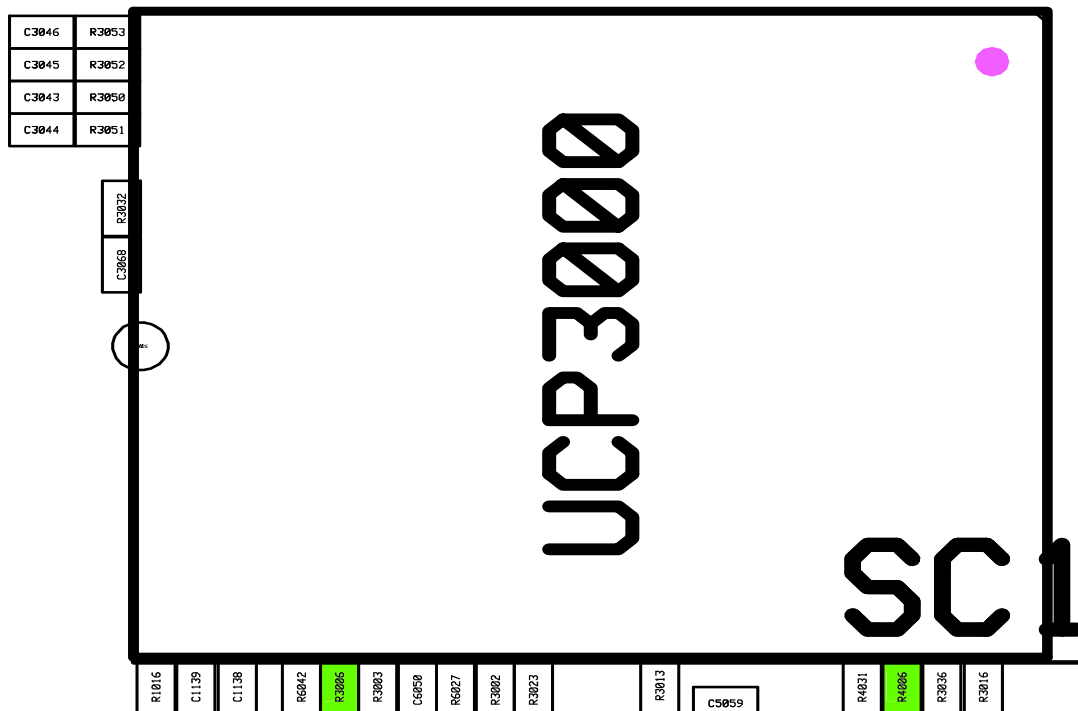
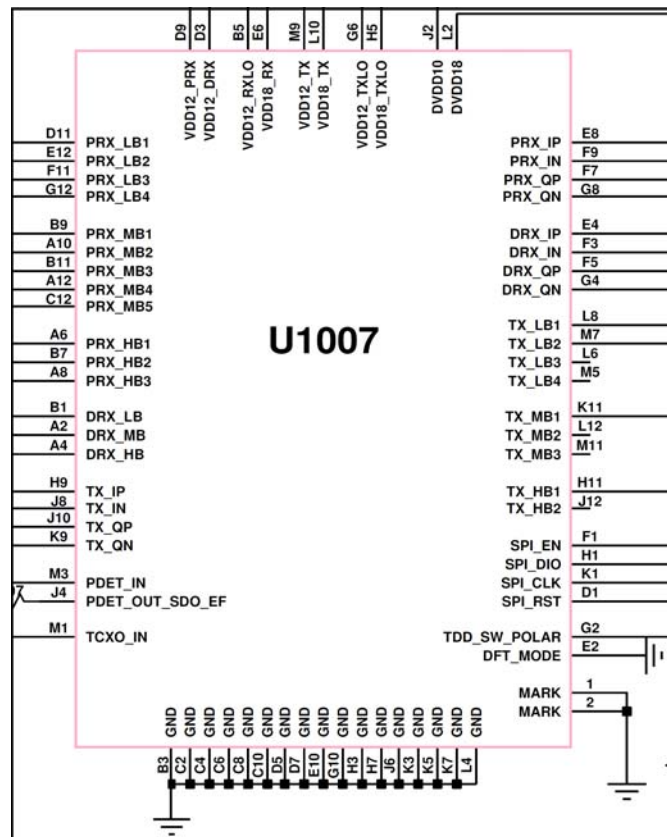




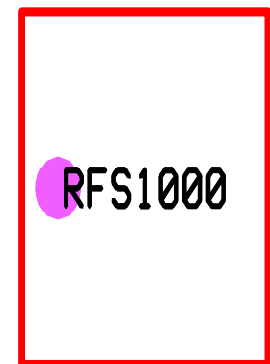
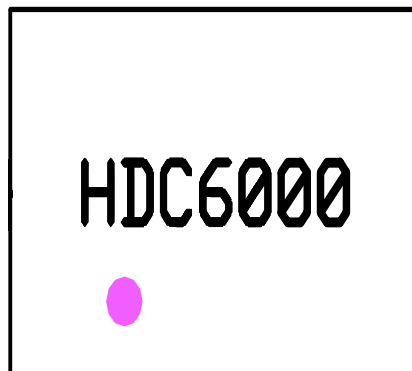
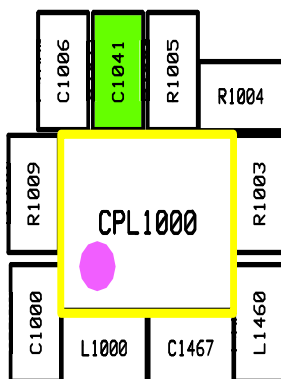
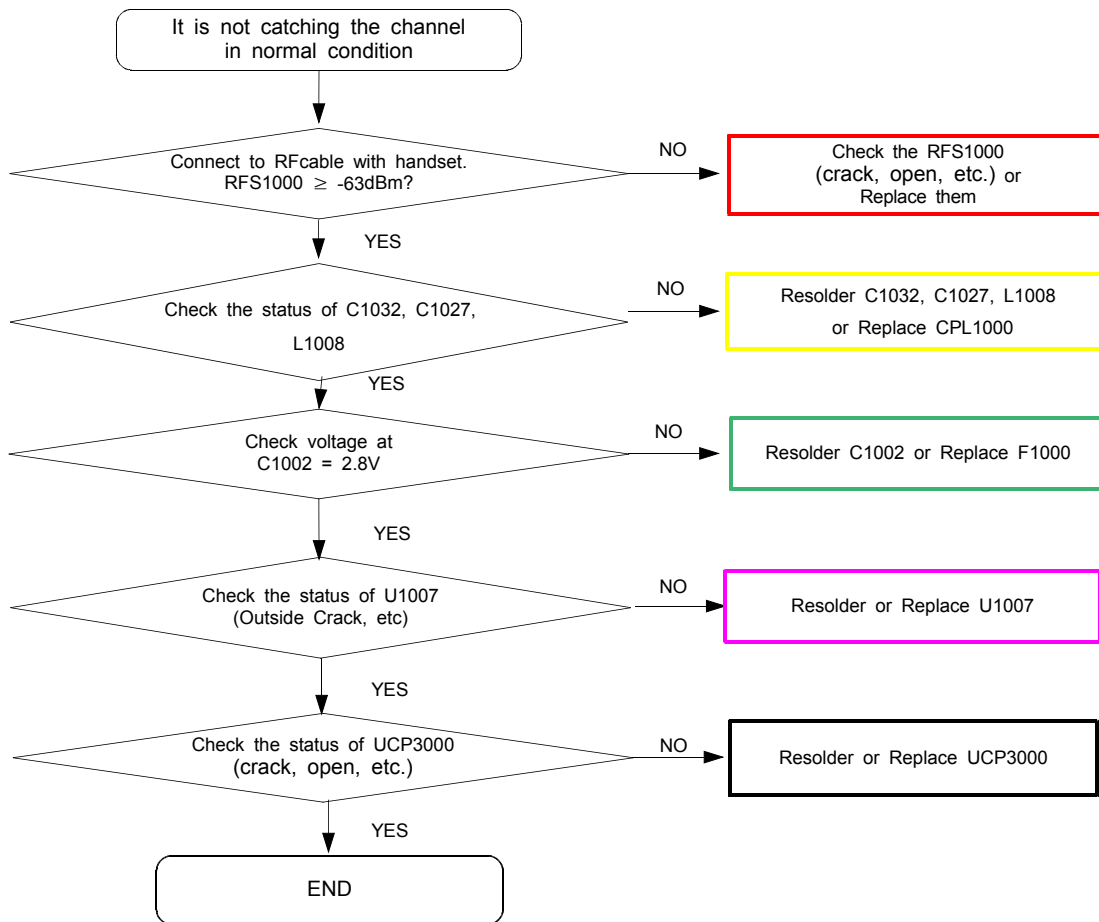
8-4-15. GSM900 / WCDMA Band 8 / LTE B8 Rx

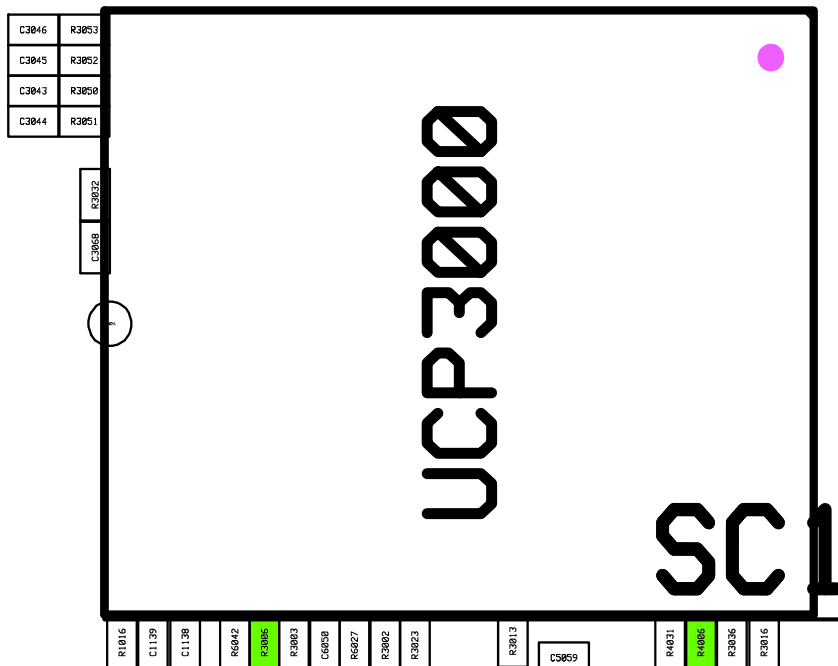




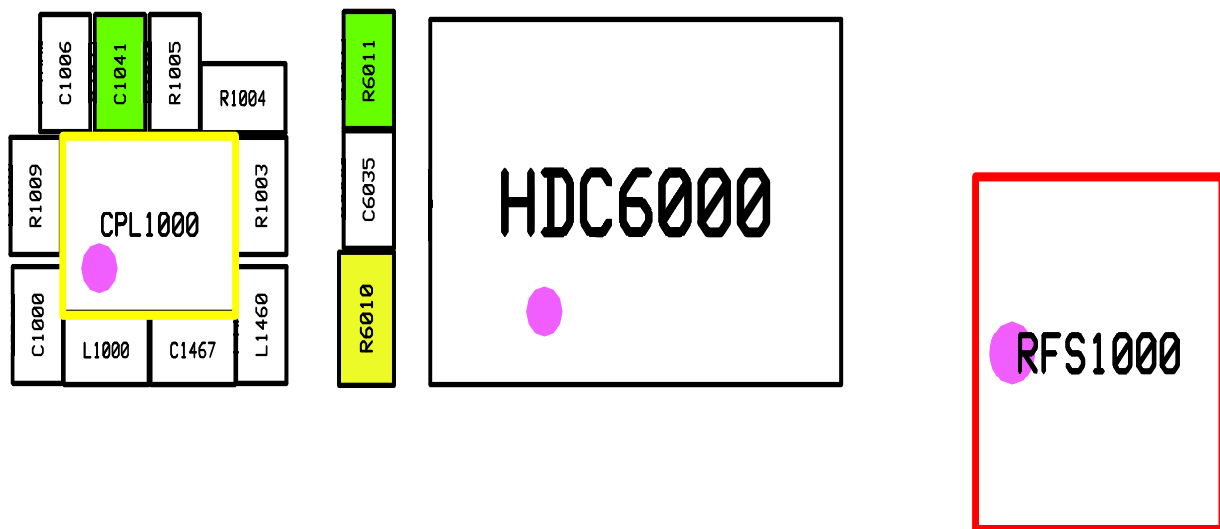
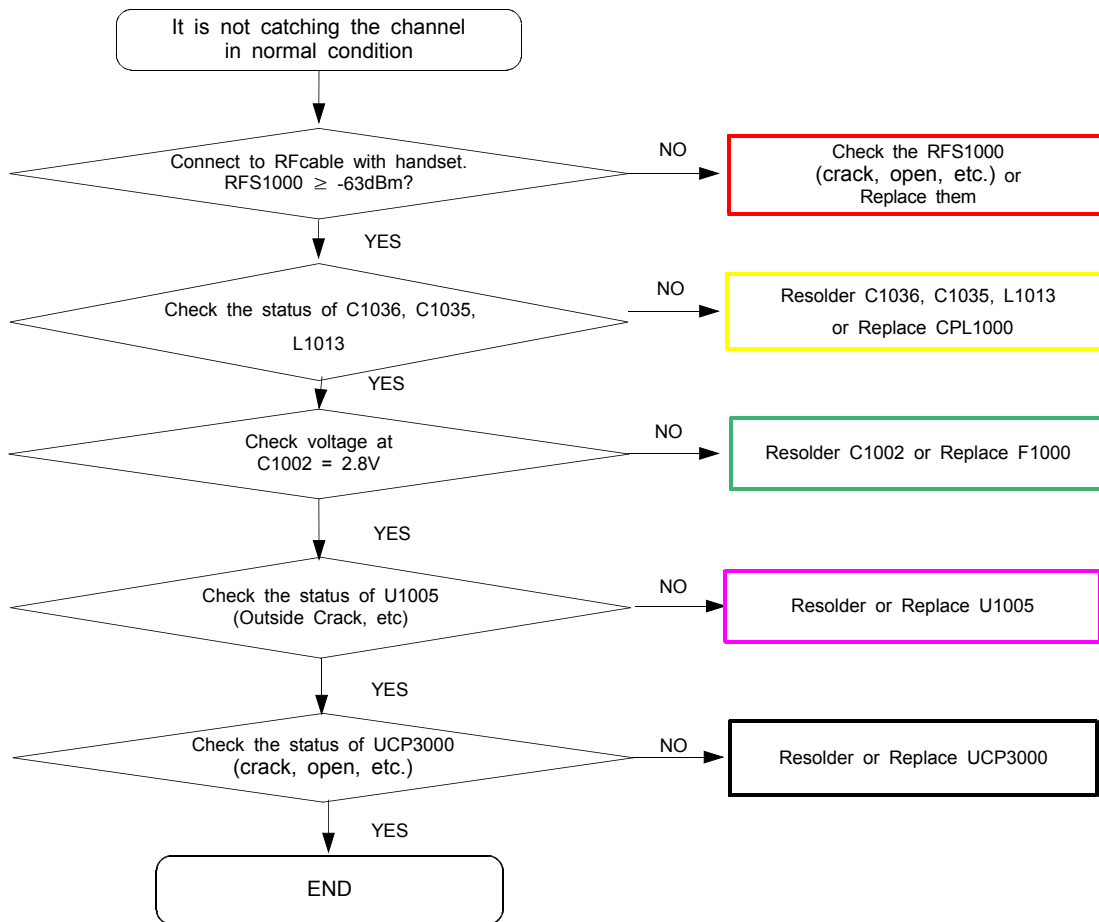


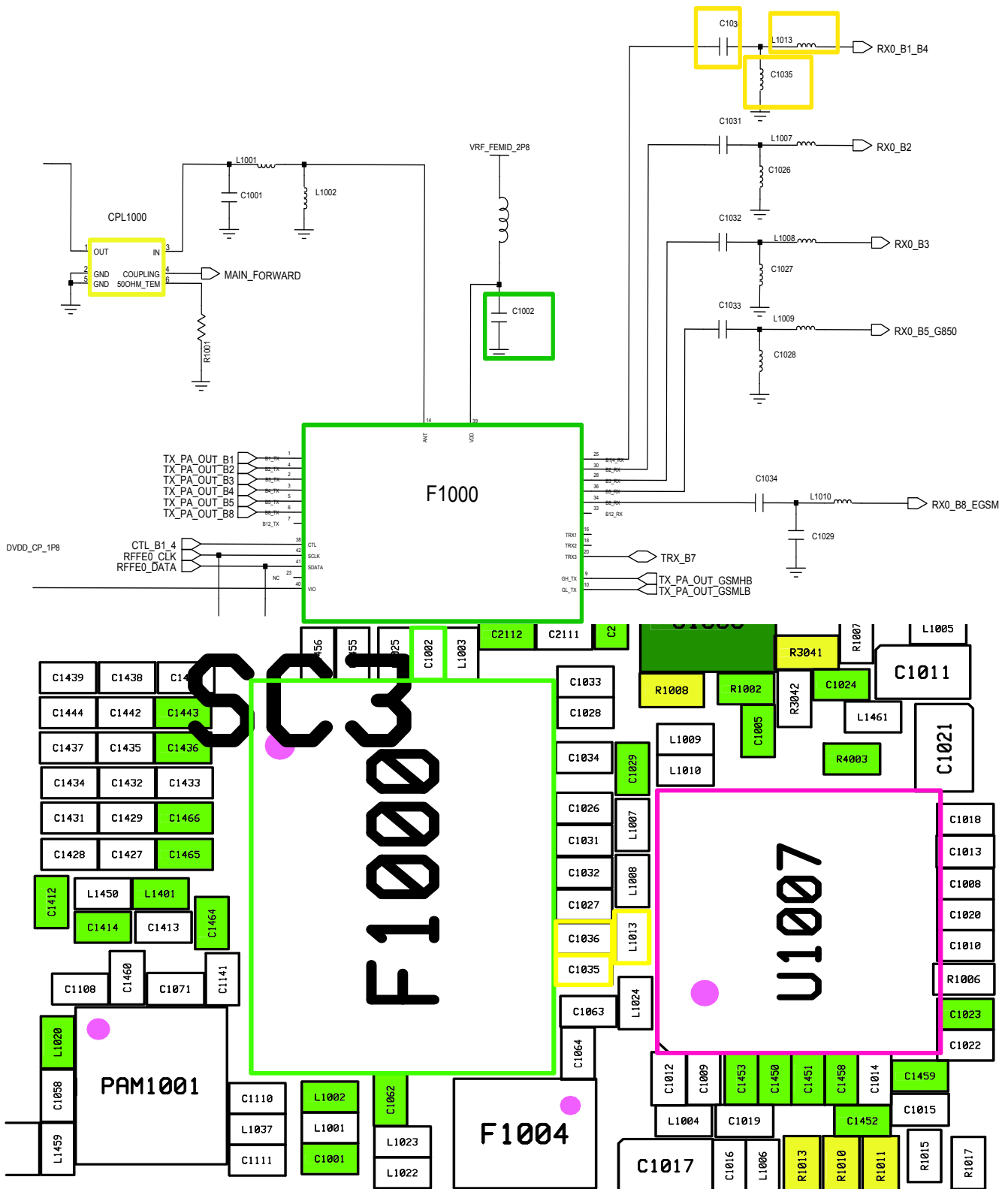
8-4-16. GSM1800 / LTE B3 Rx

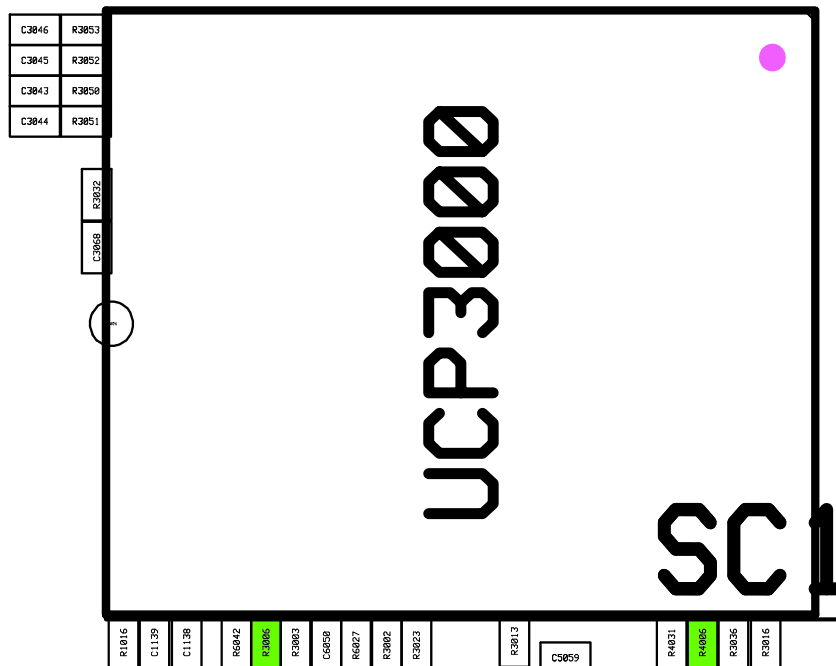
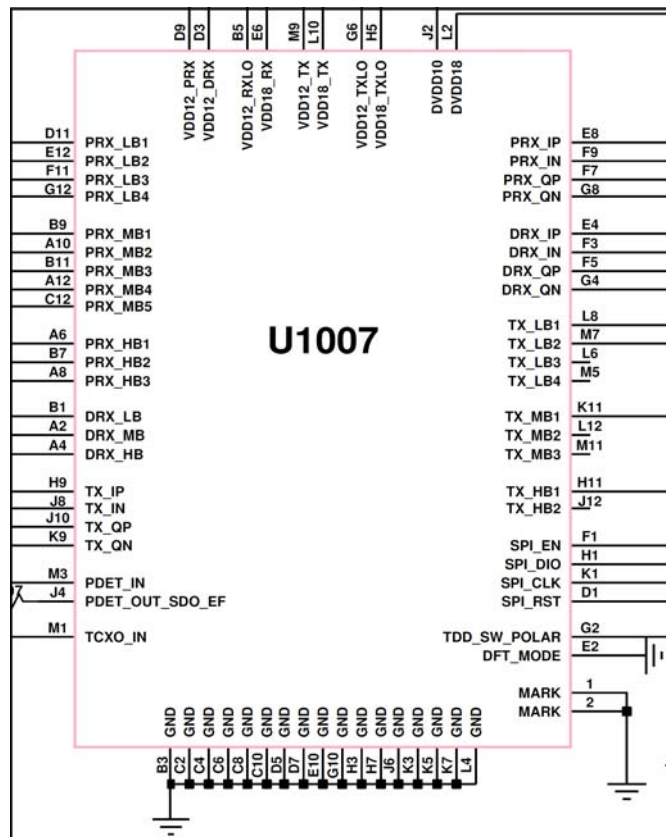




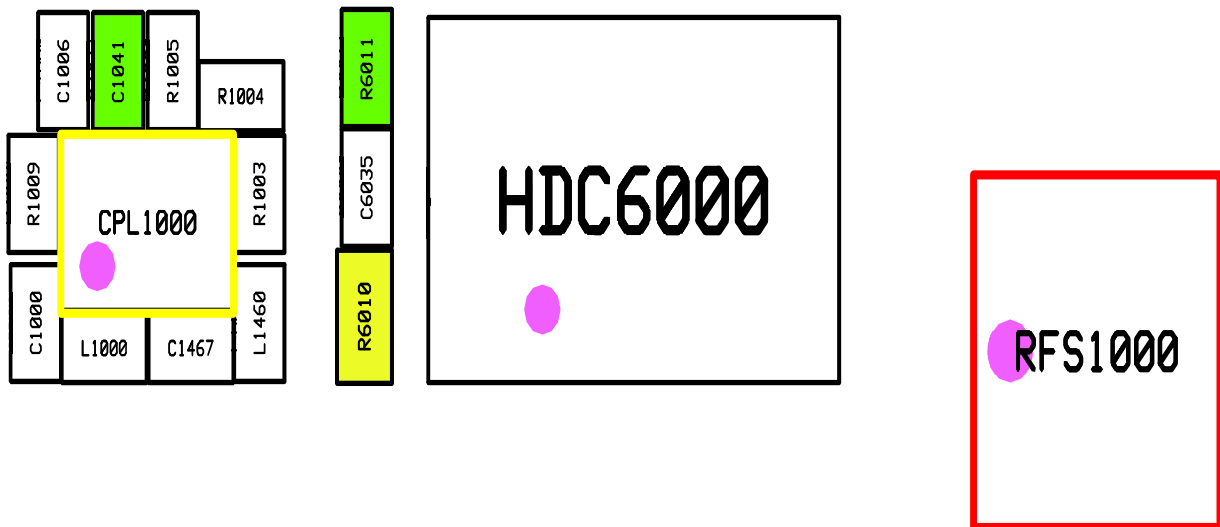
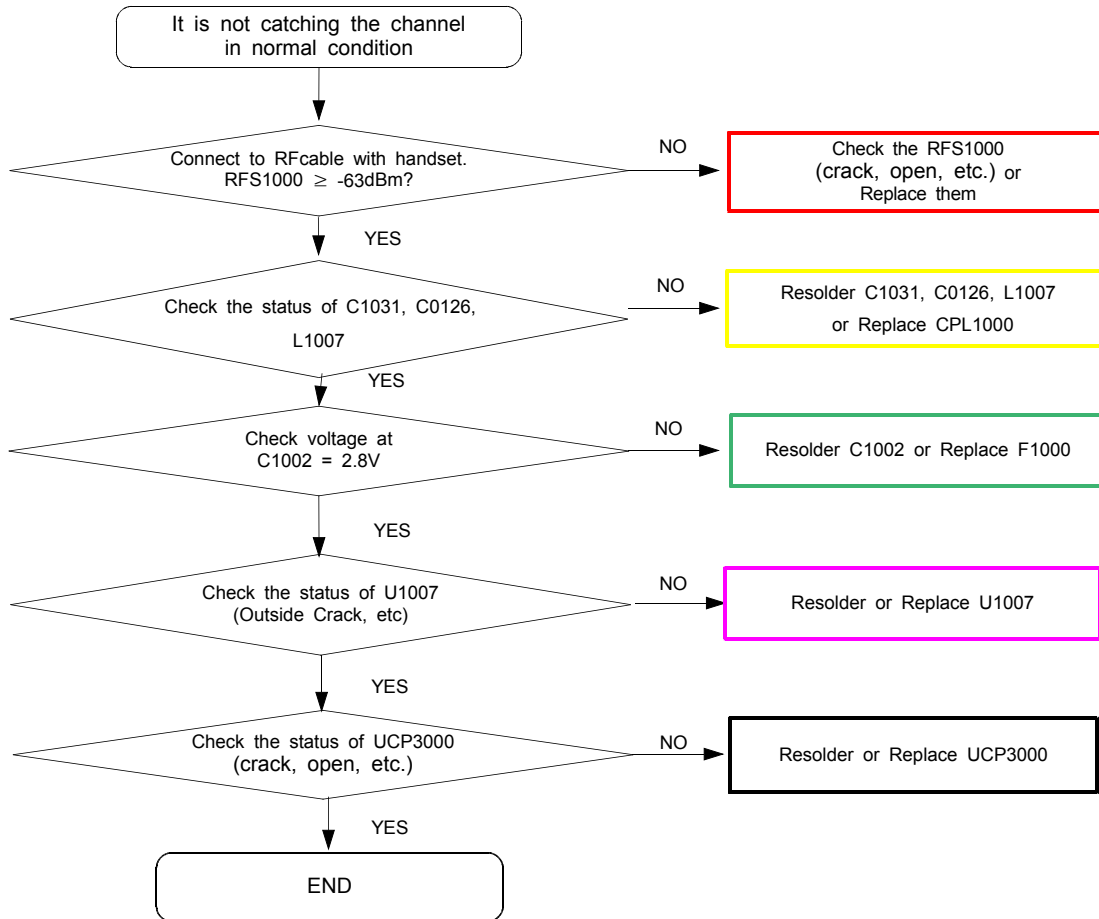
8-4-17. WCDMA Band1 / LTE Band1 / LTE Band4 Rx

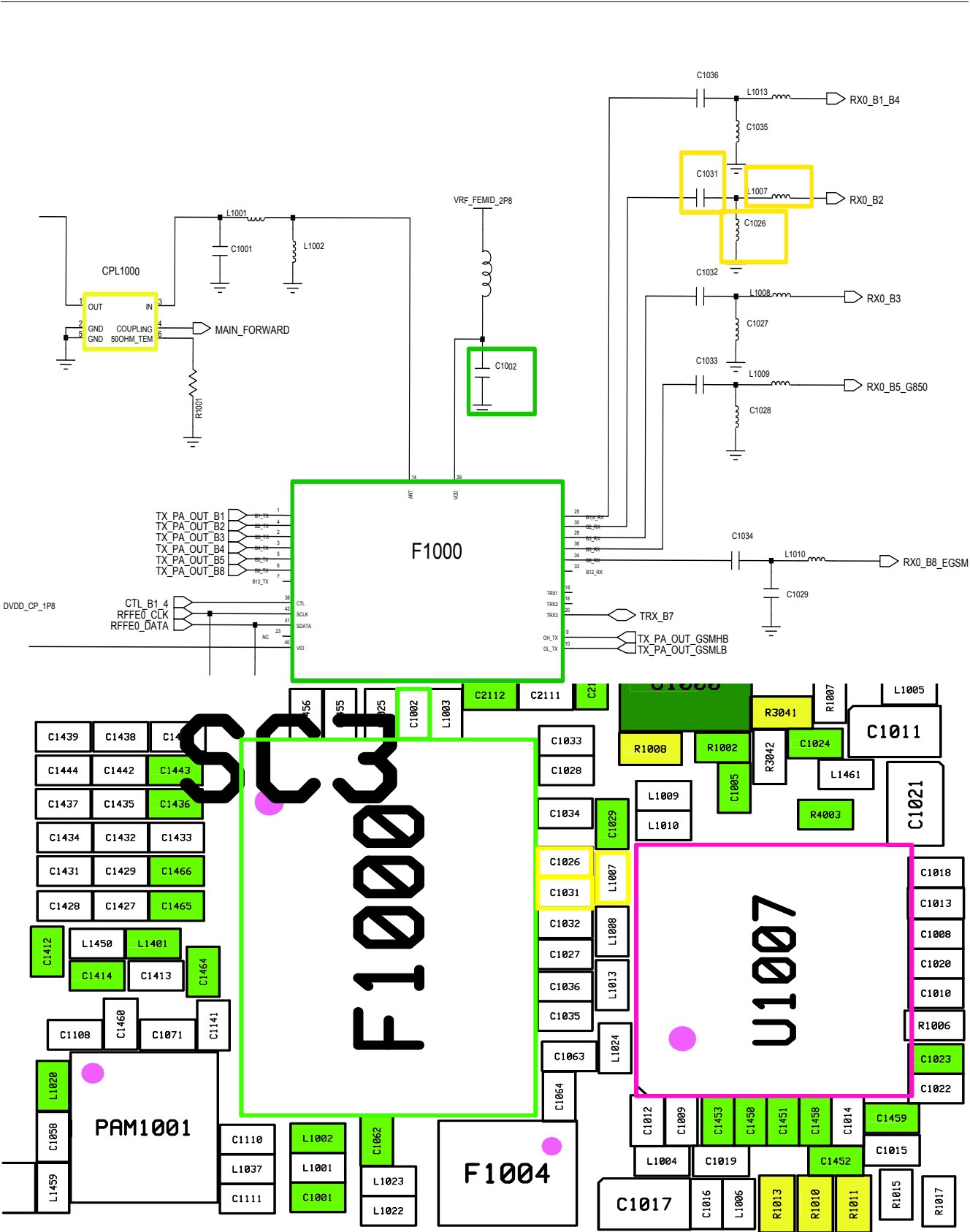


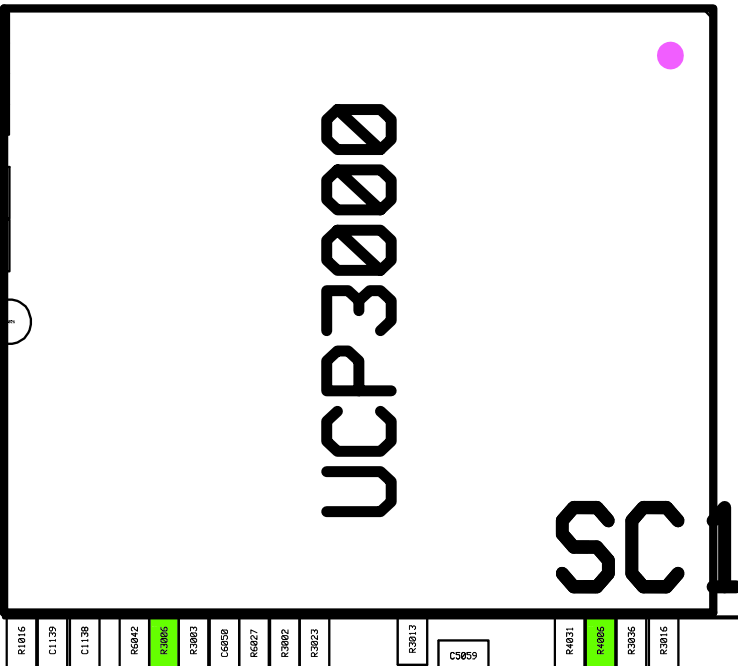




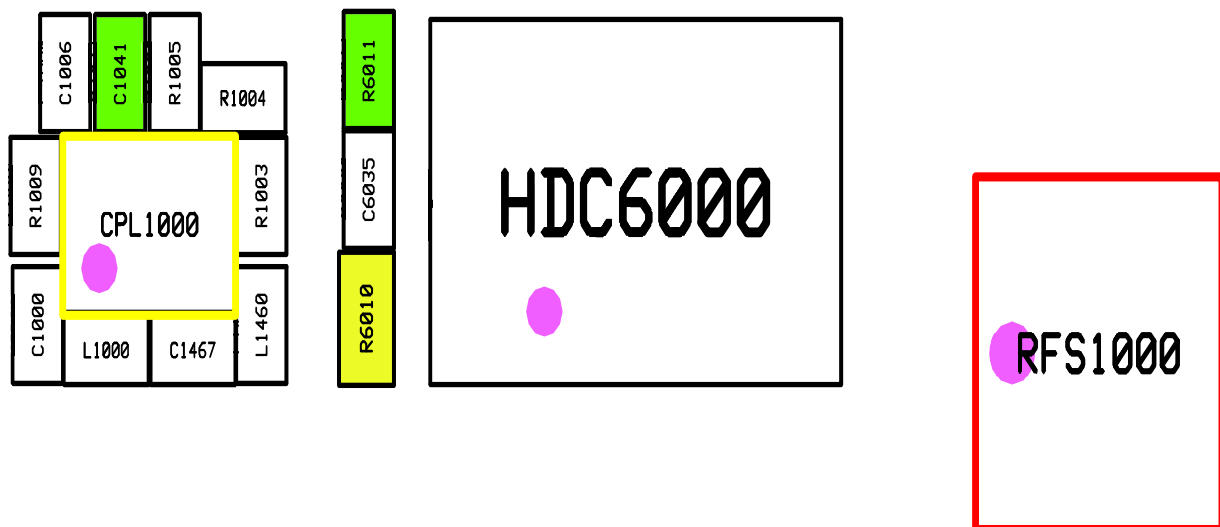
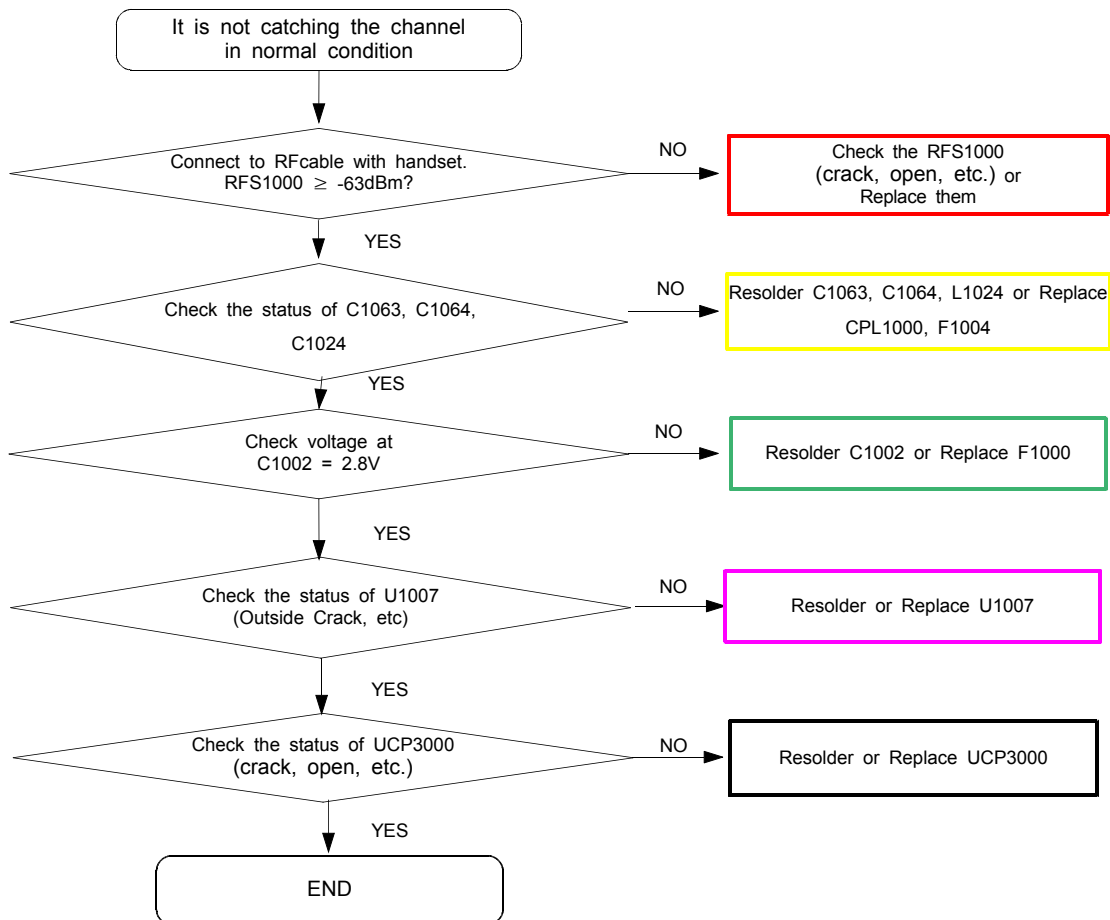
8-4-18. GSM1900 / WCDMA Band2 / LTE Band2 Rx

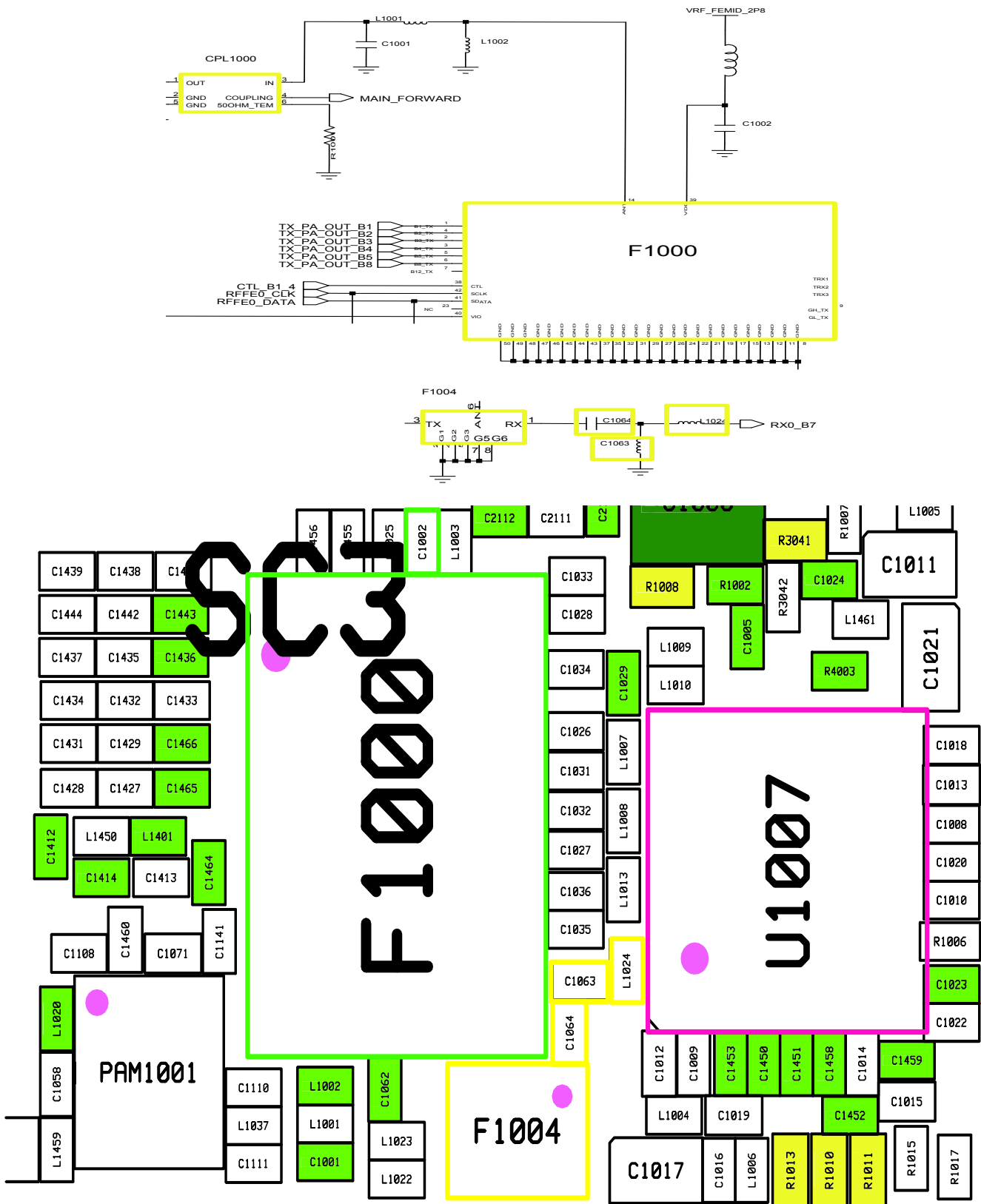


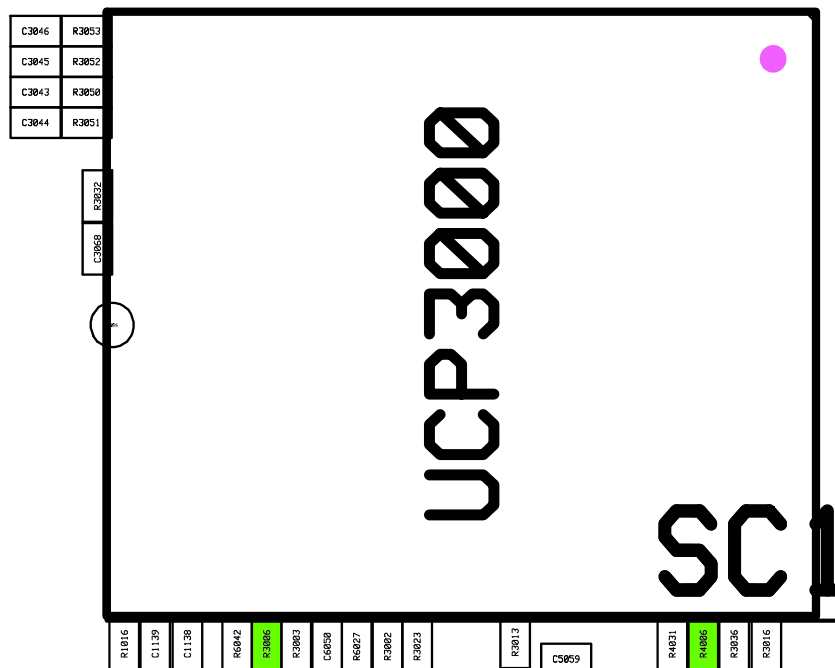
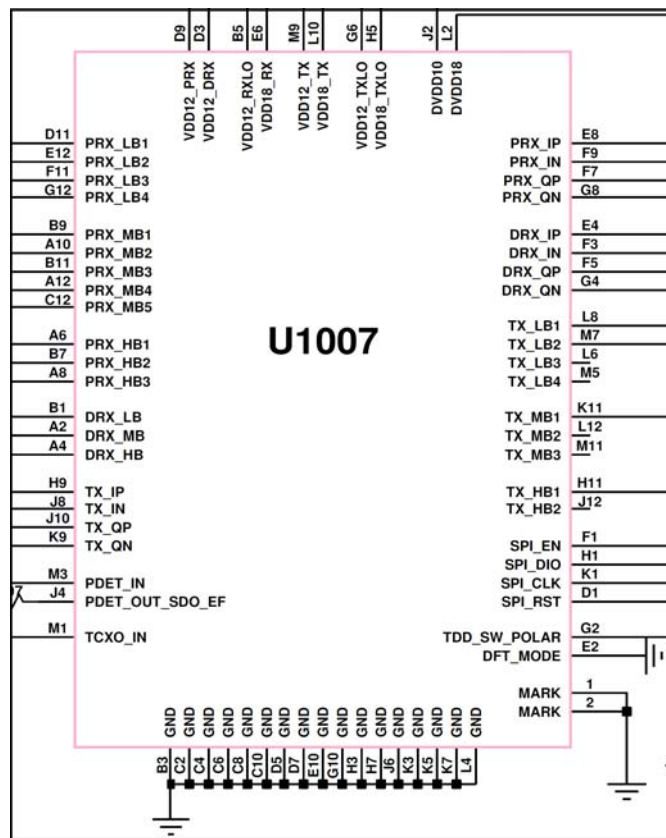




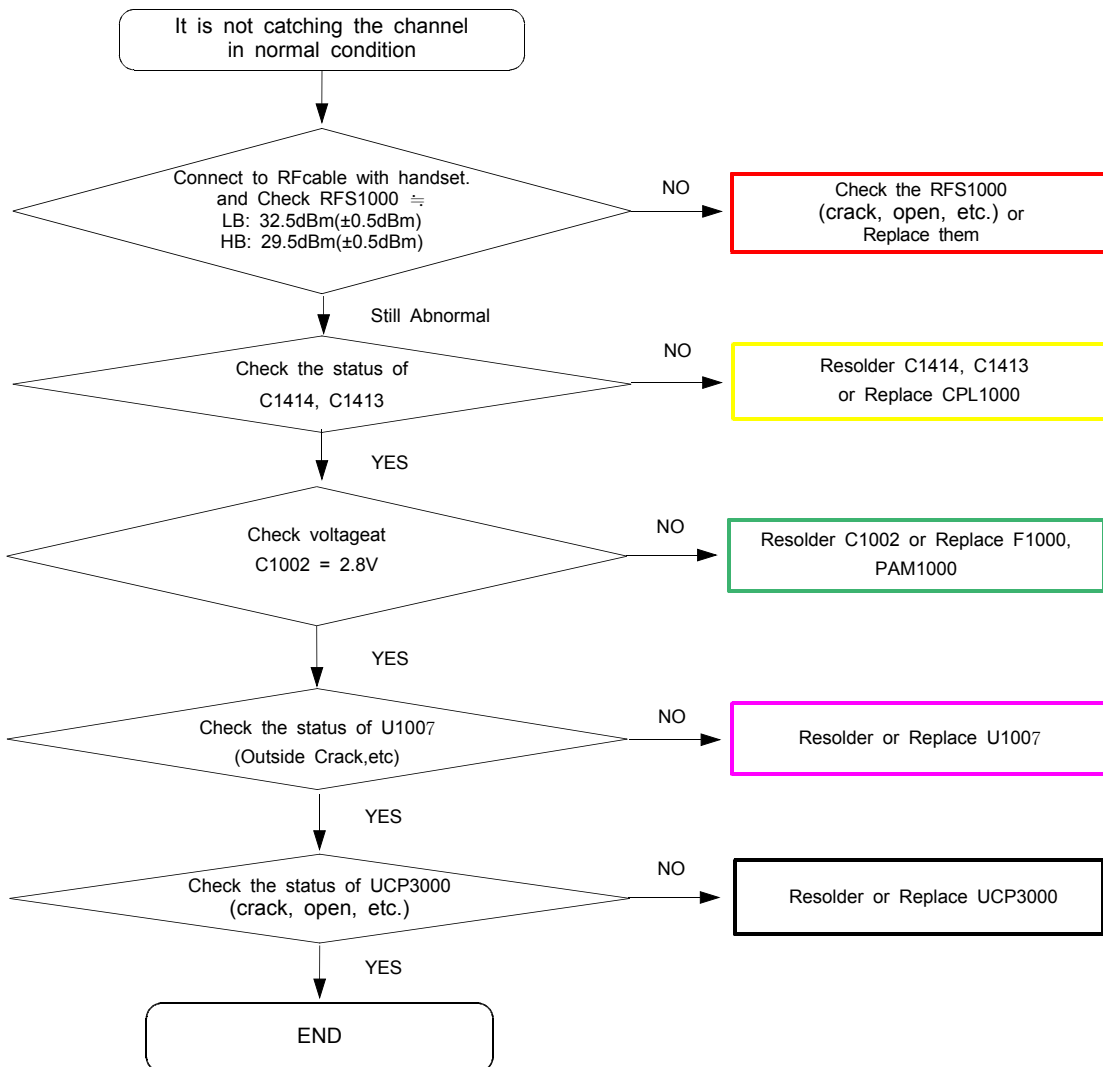
8-4-20. LTE B7 Rx

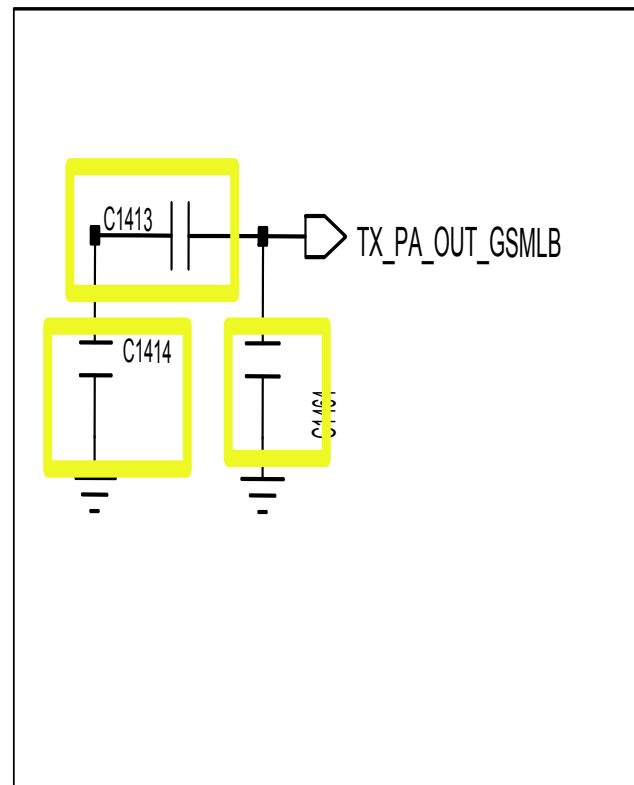
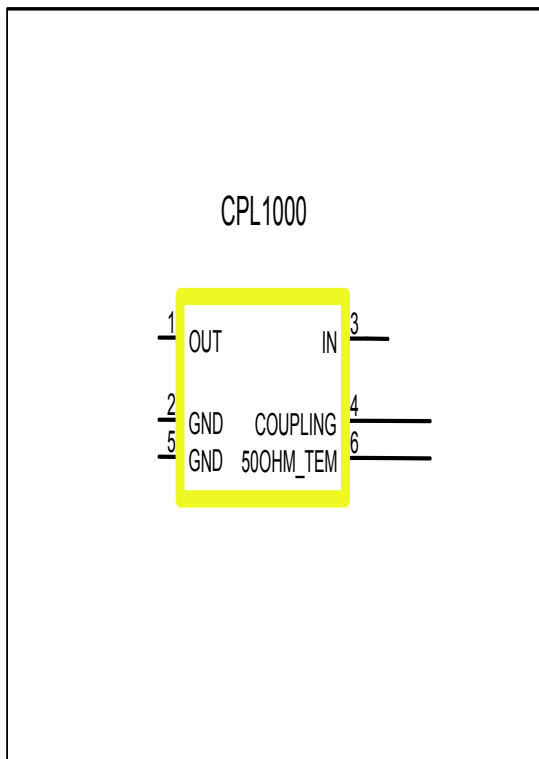
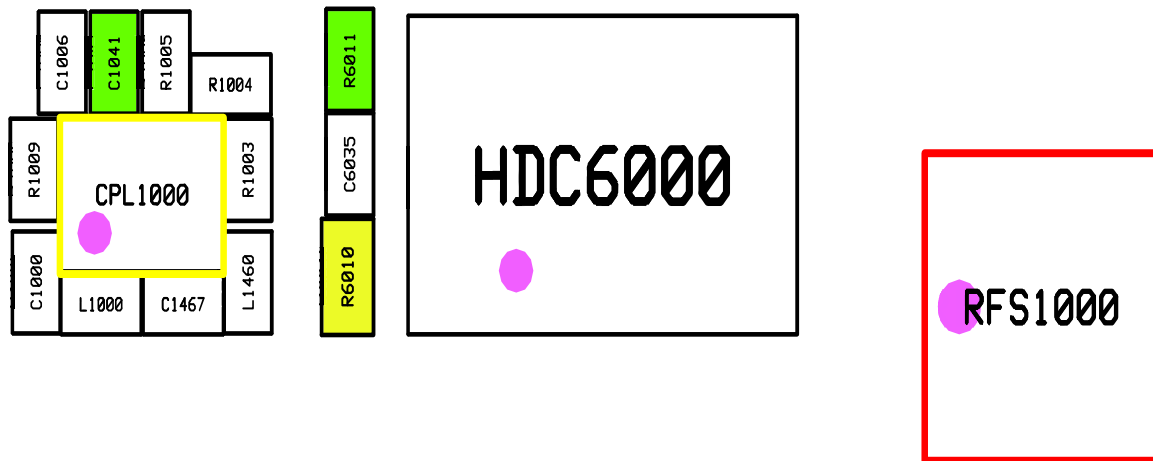


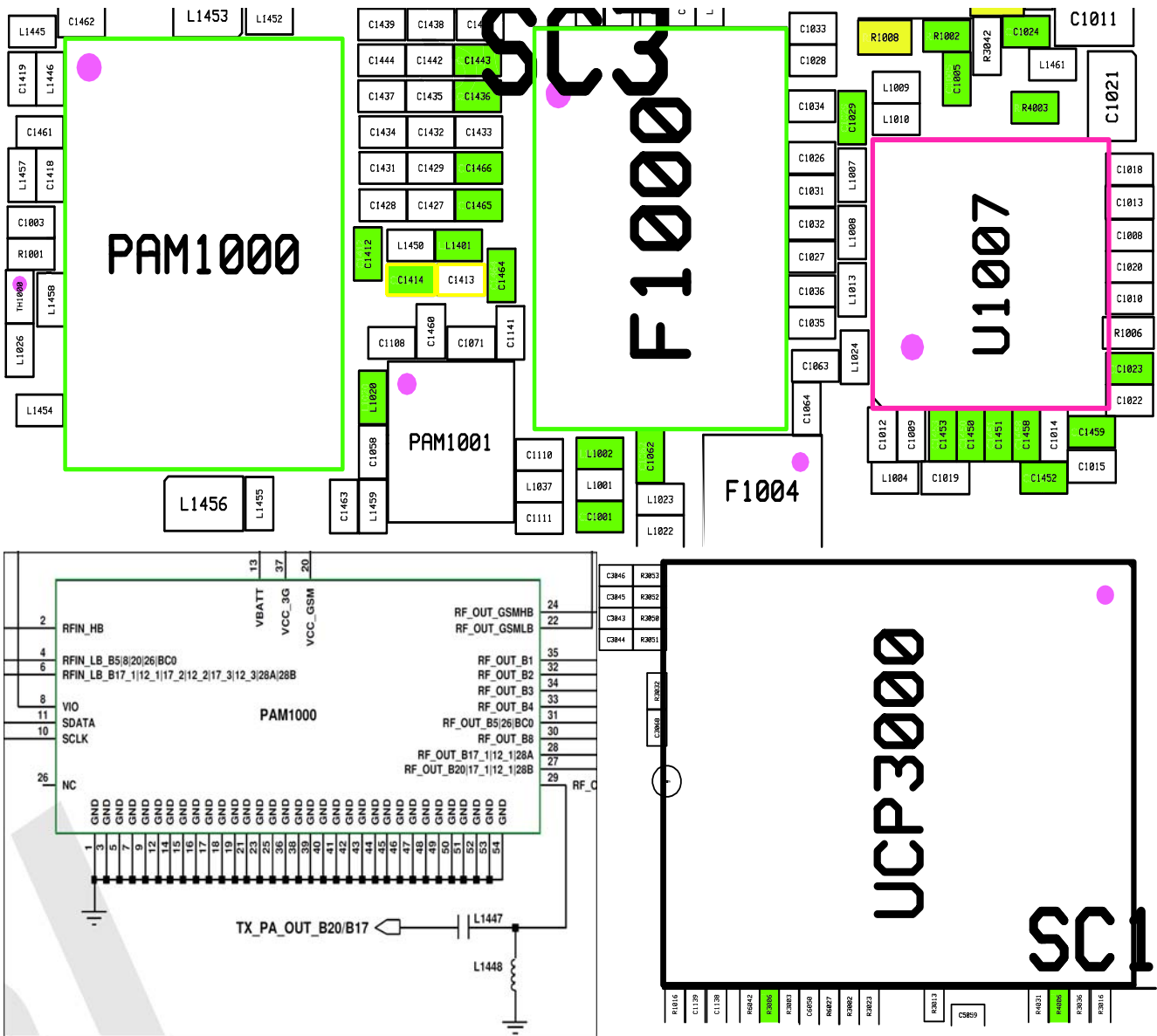


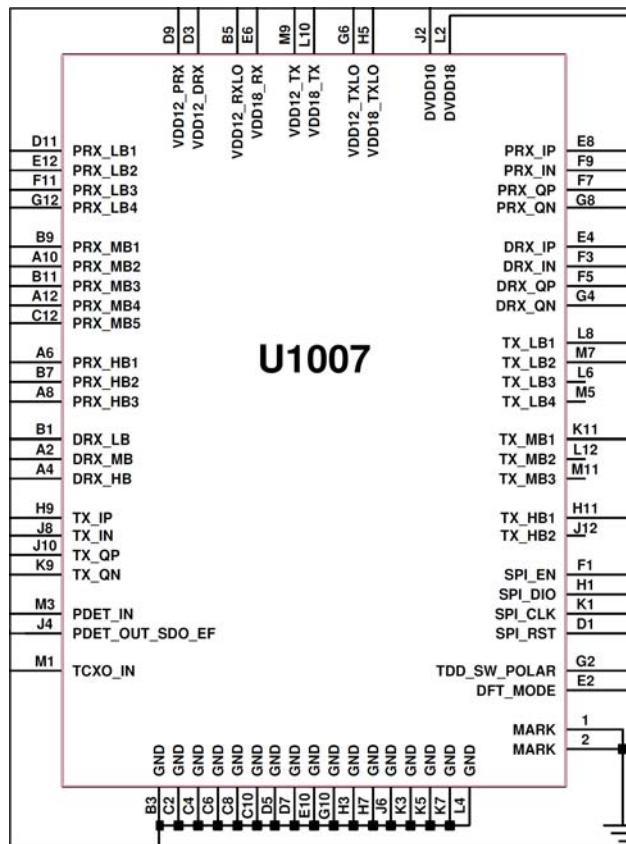


8-4-21. GSM850 / GSM900 Tx

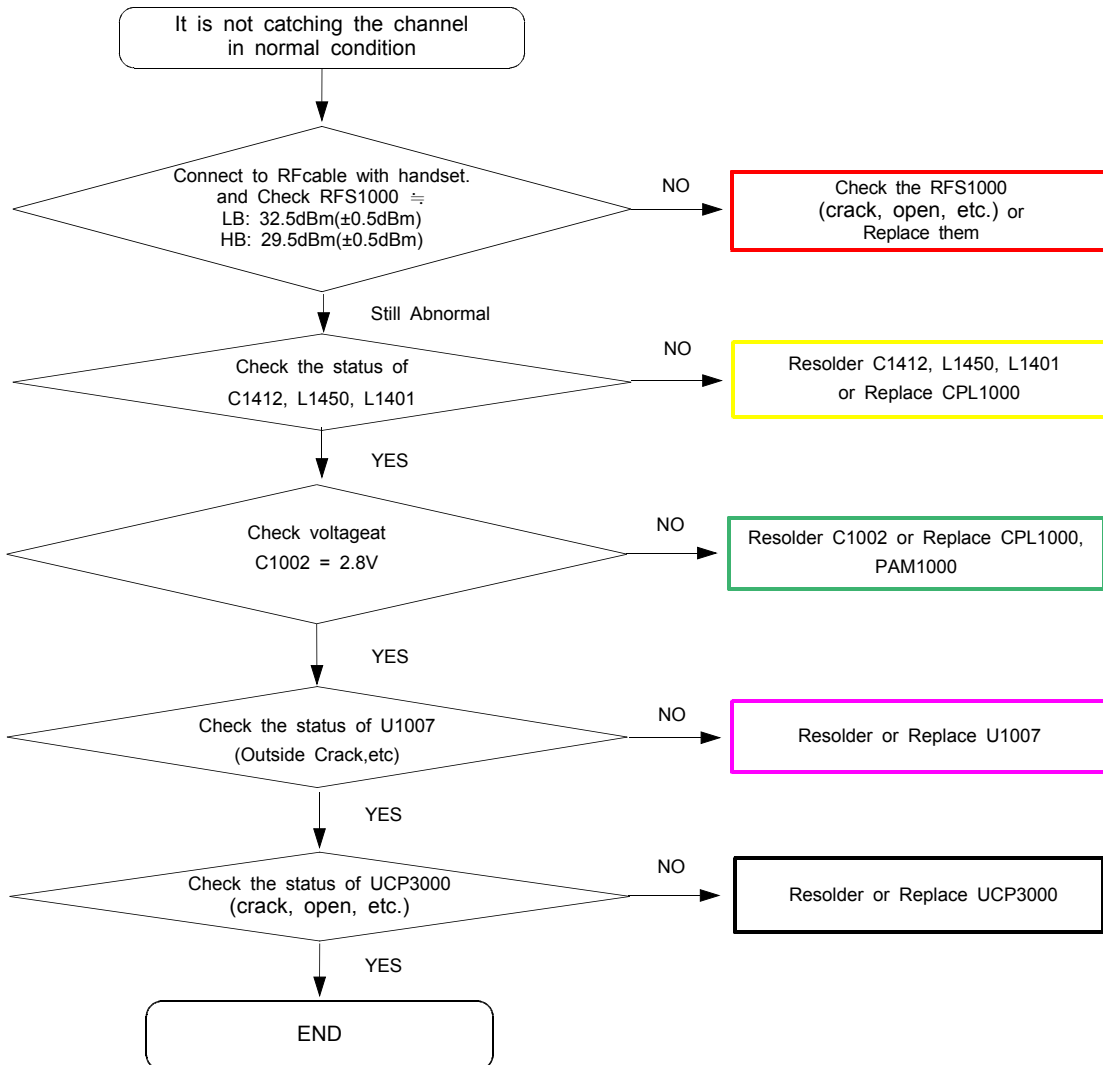


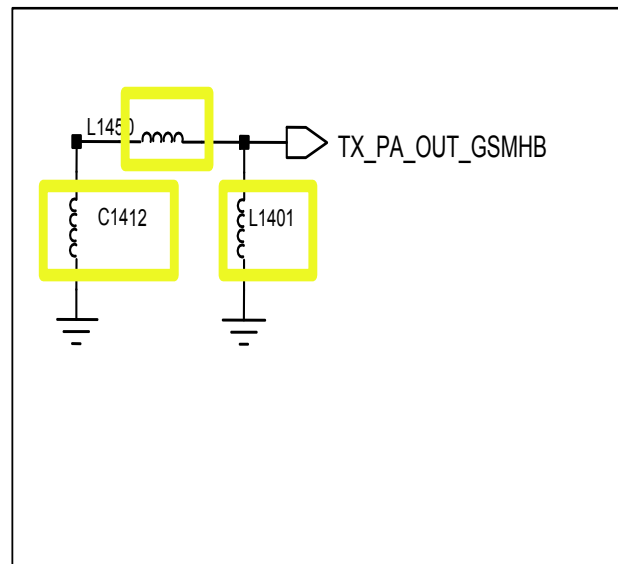
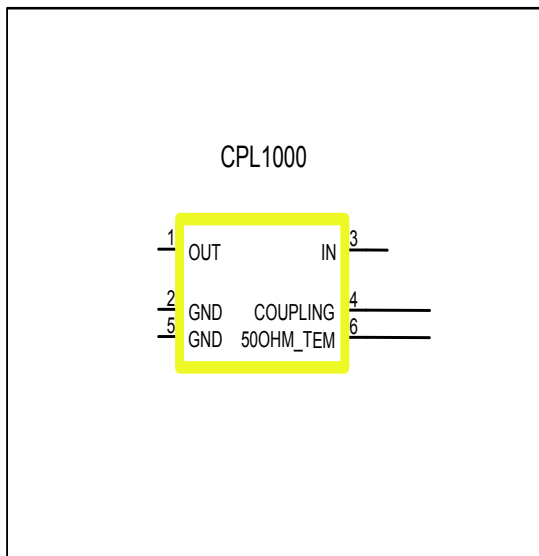
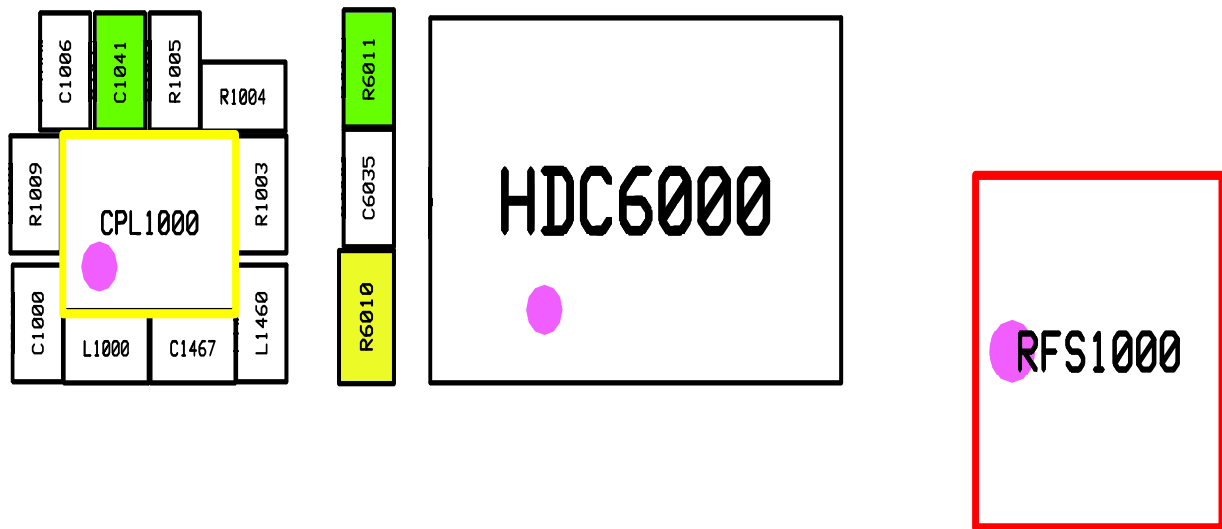


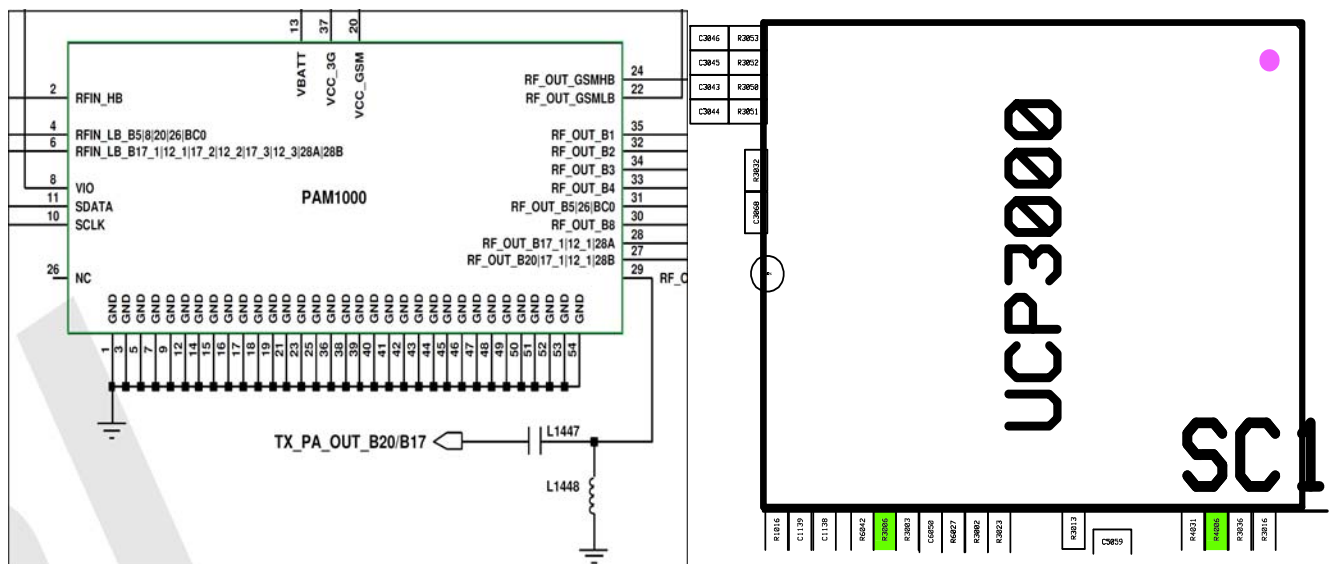
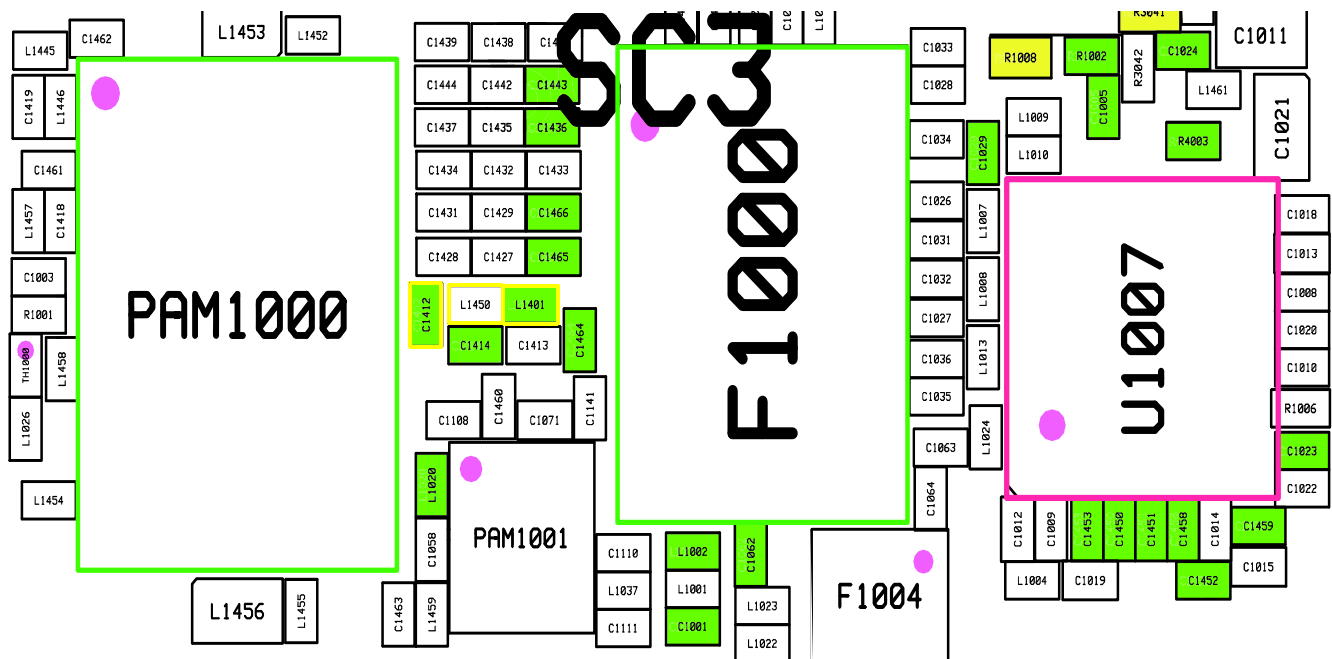


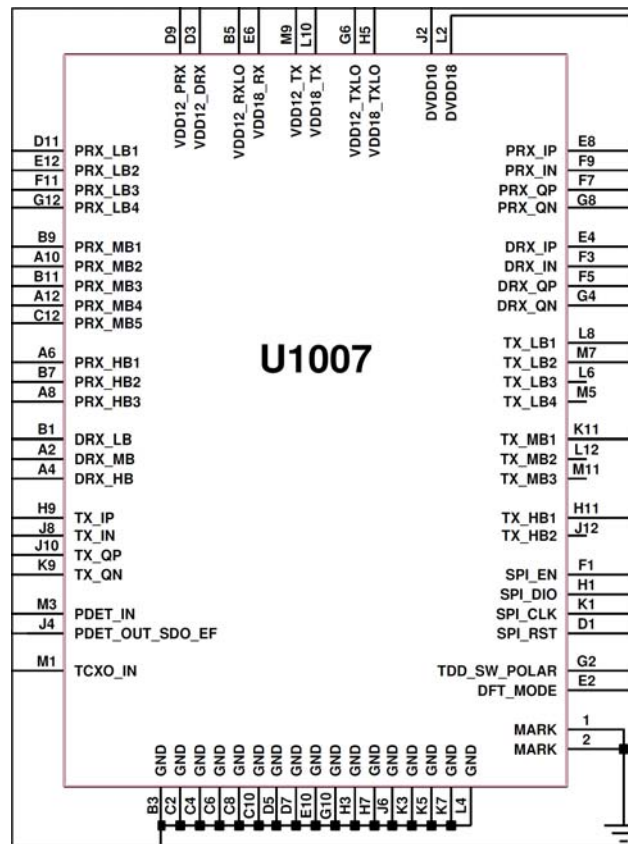


8-4-22. GSM1800 / GSM1900 Tx

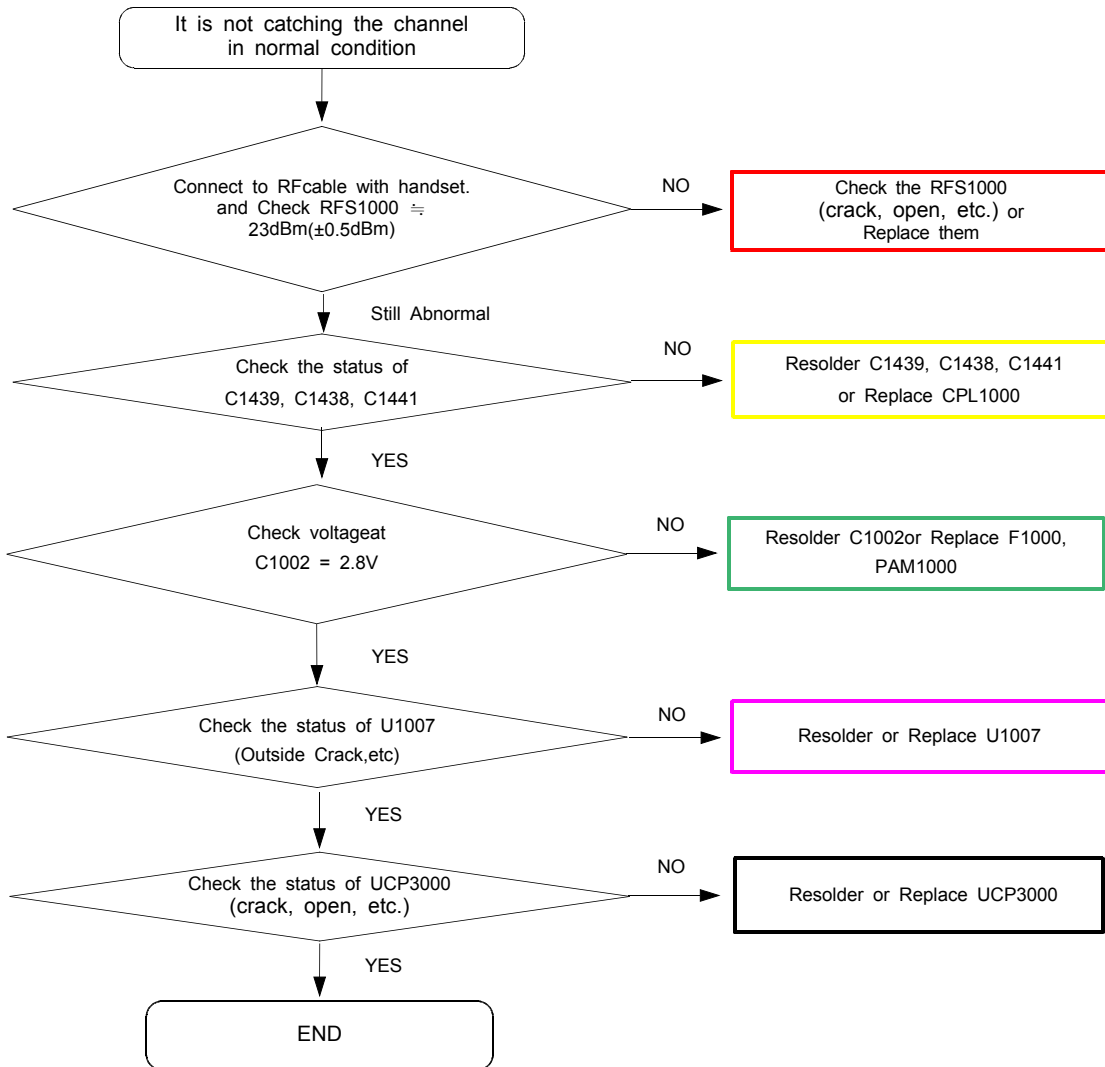




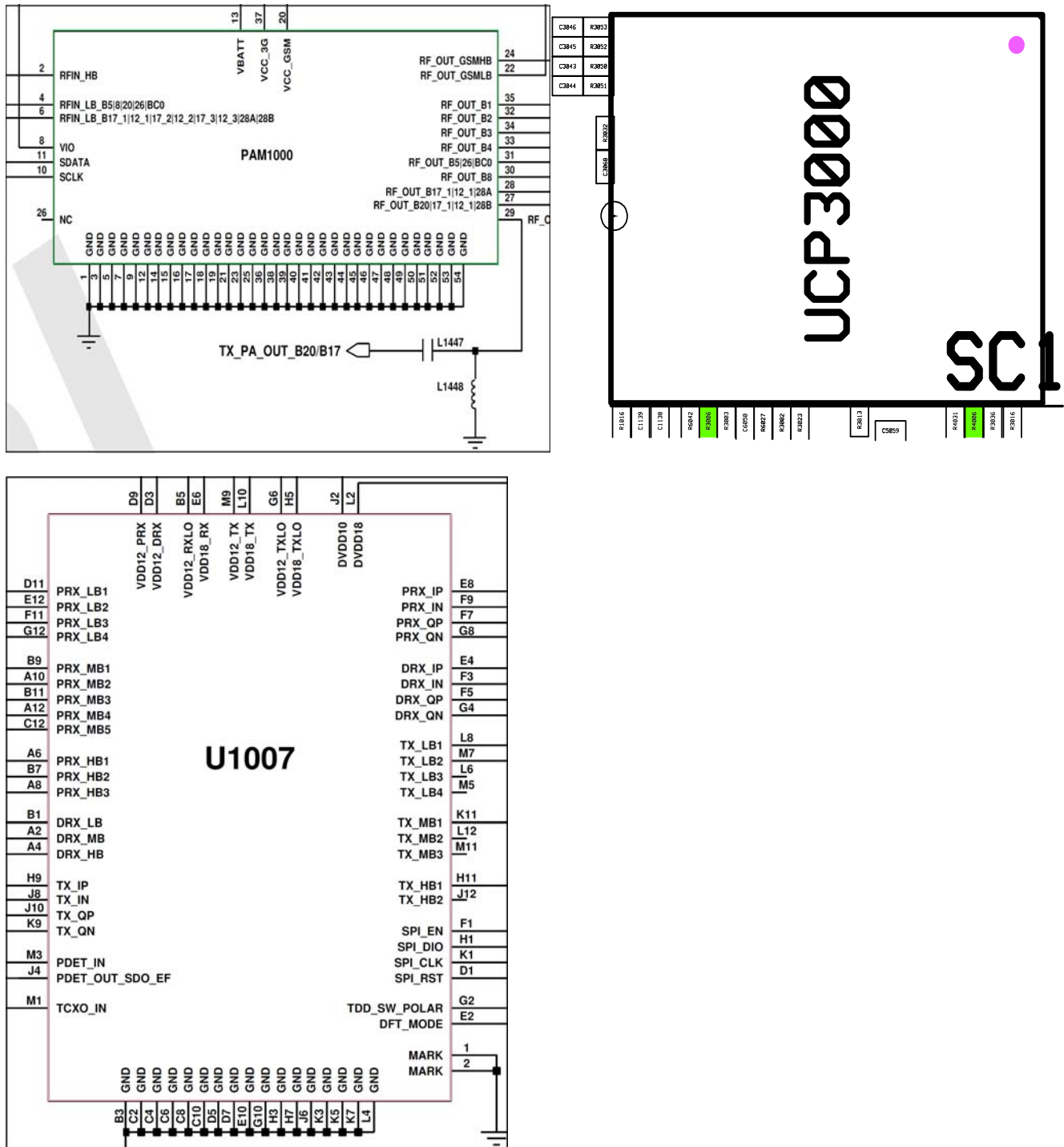




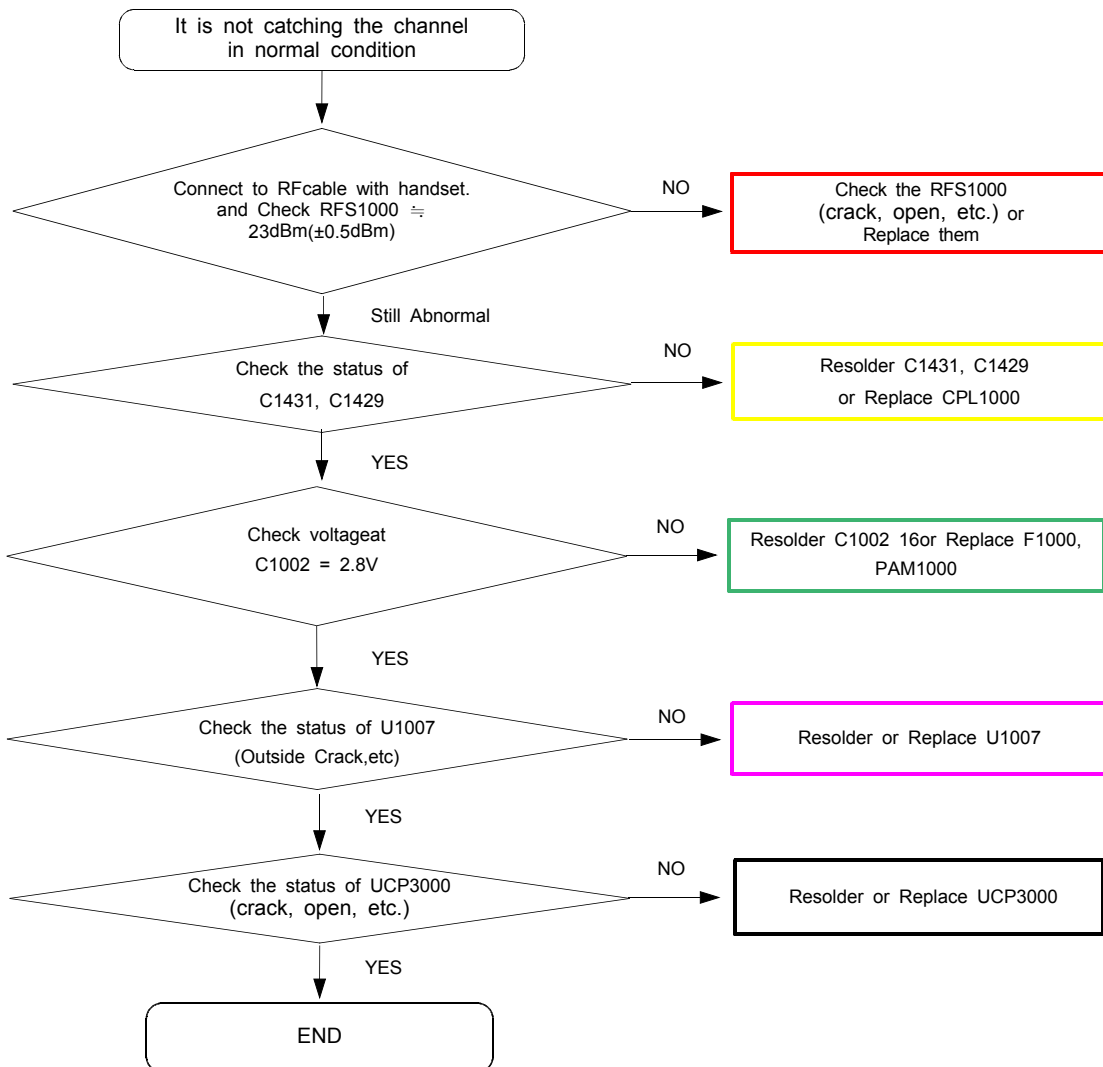
8-4-23. WCDMA Band1 / LTE Band1 Tx

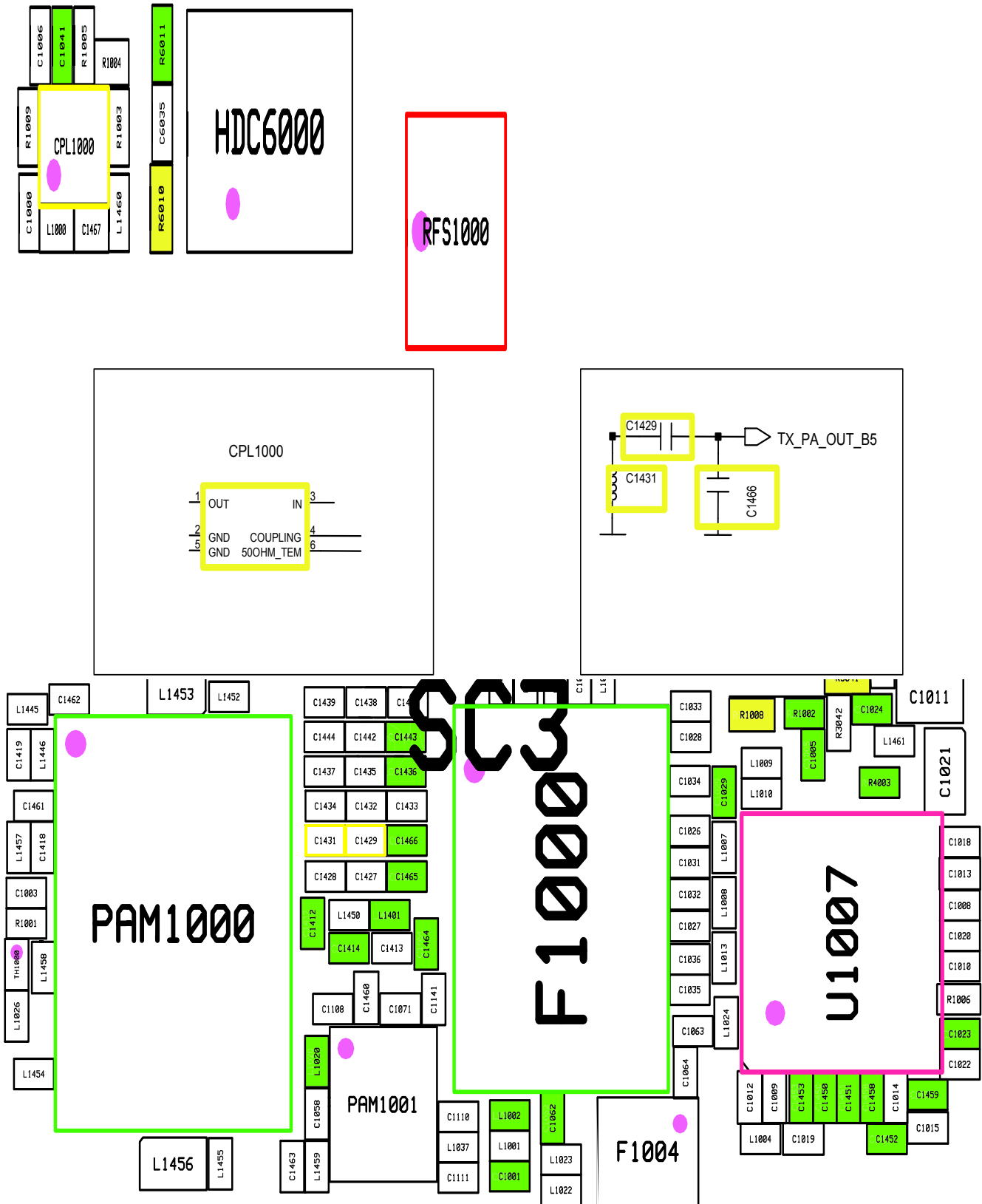


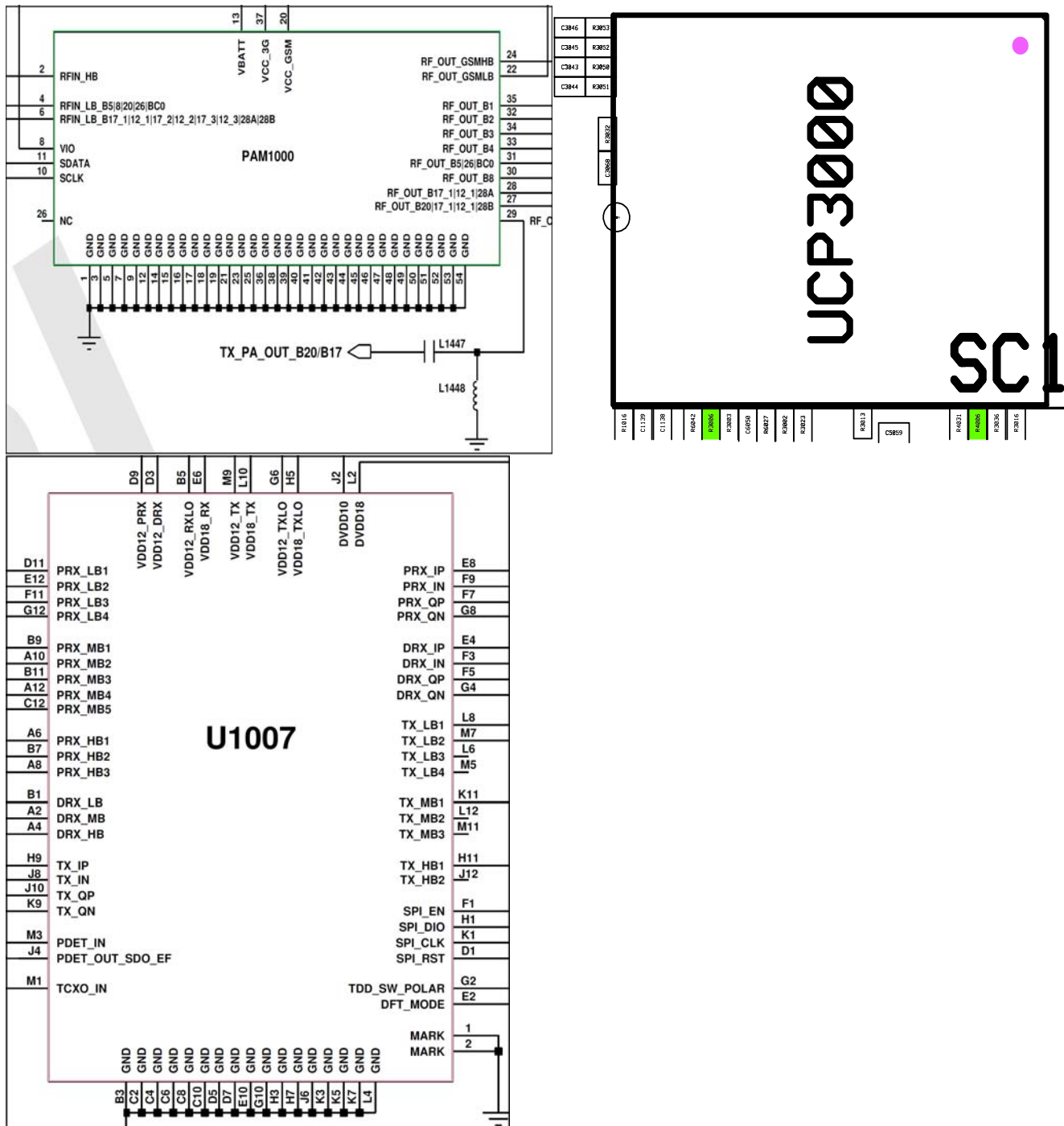




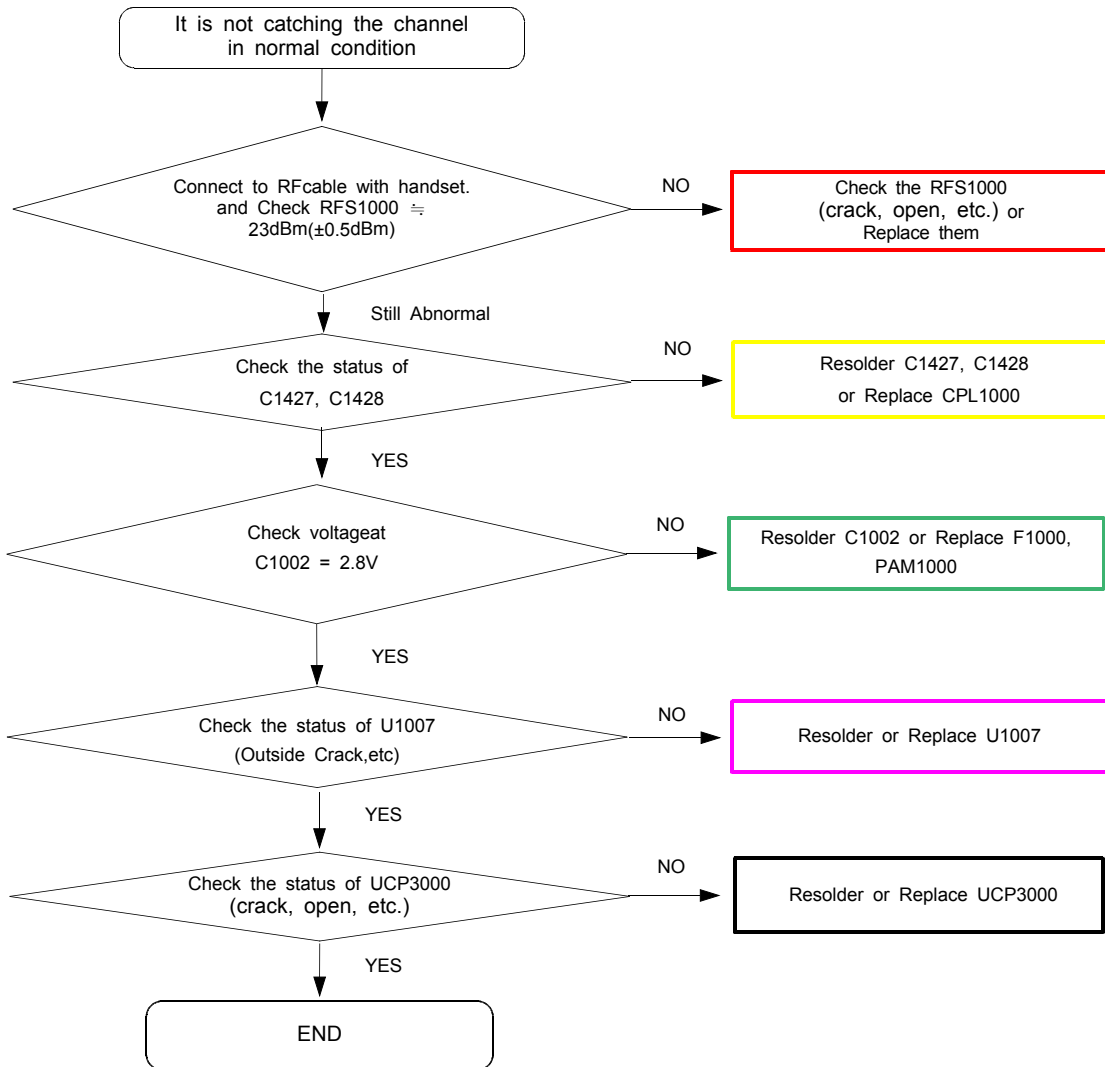
8-4-24. WCDMA Band5 / LTE B5 Tx

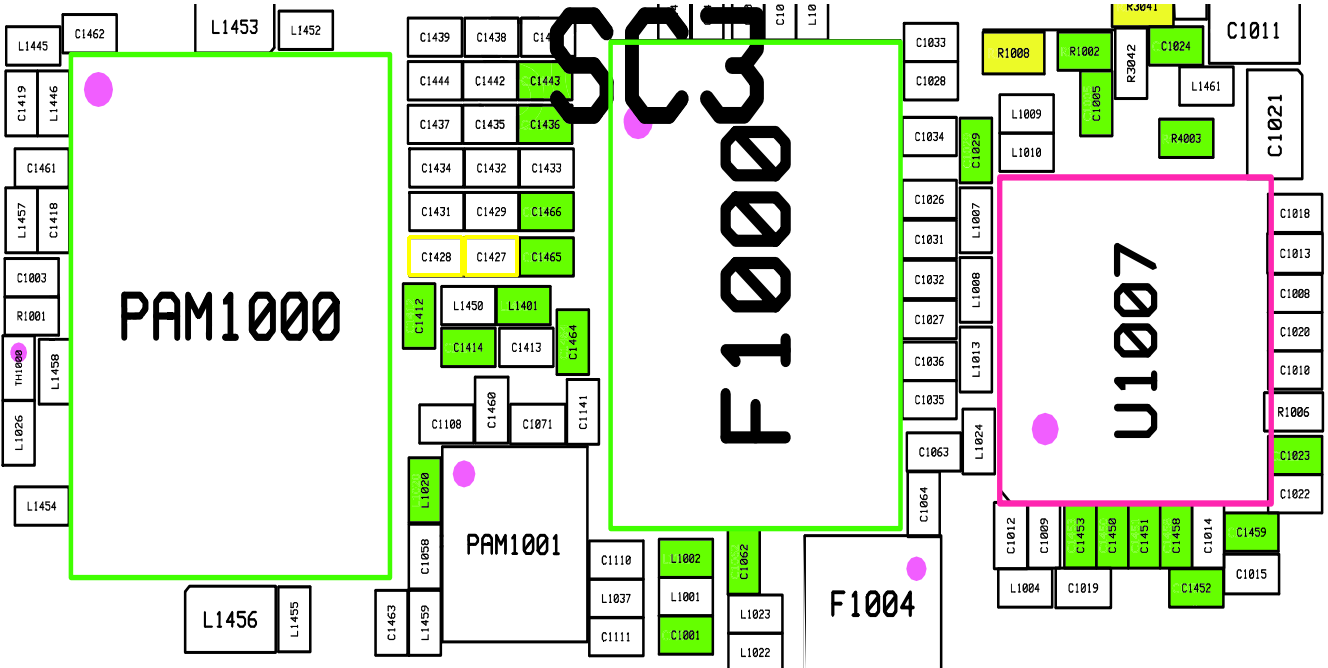


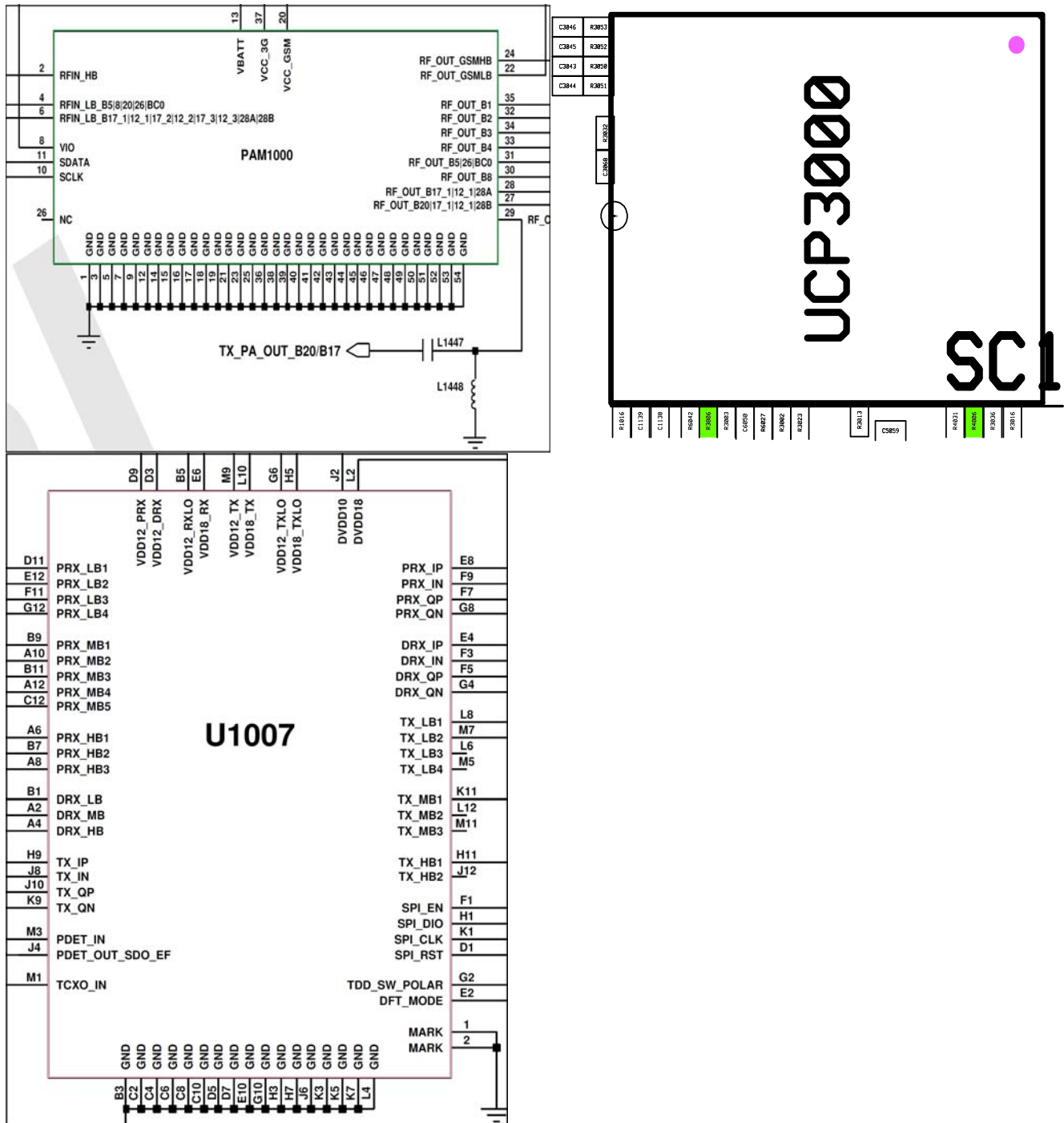




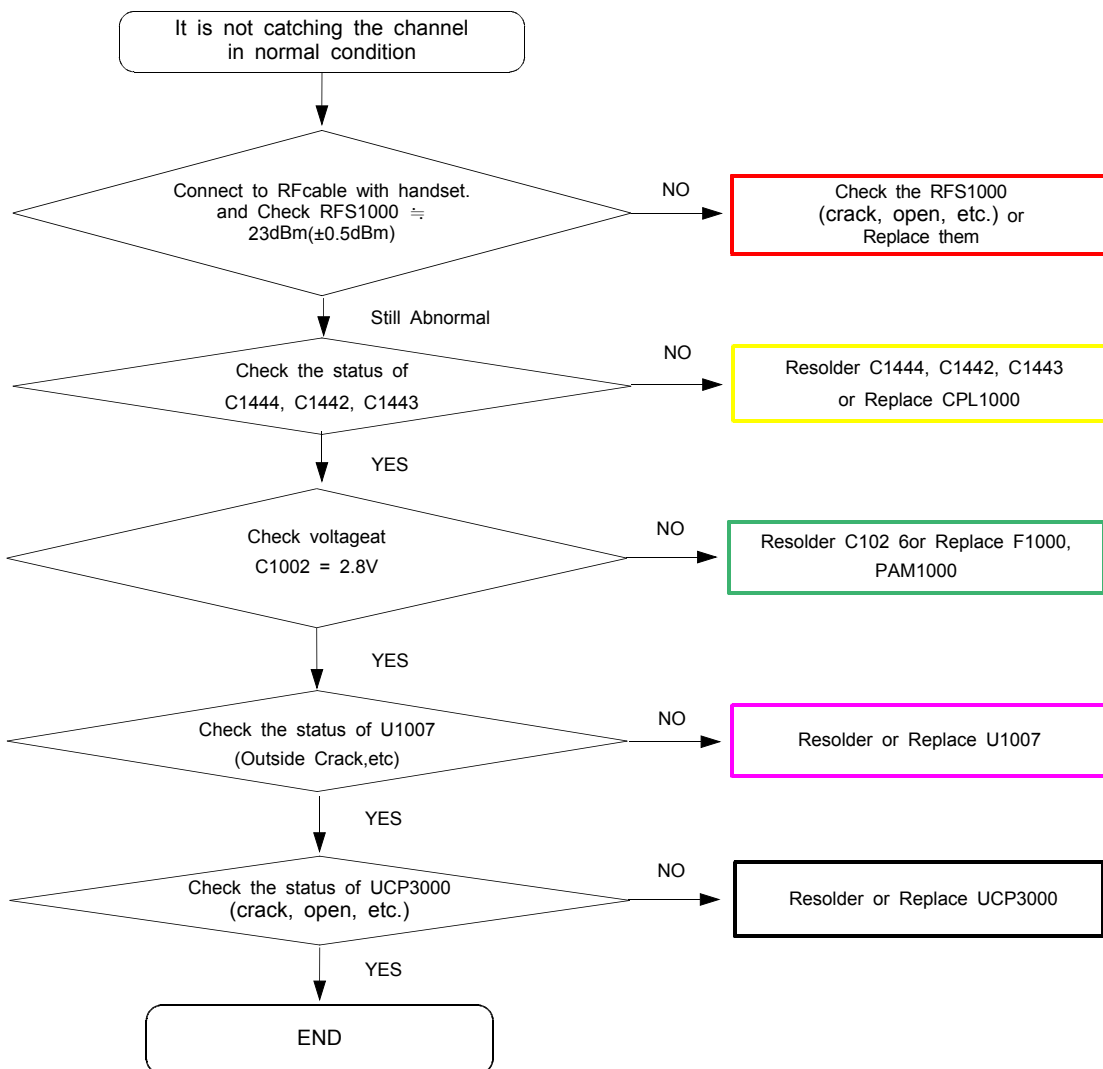
8-4-25. WCDMA Band8 Tx

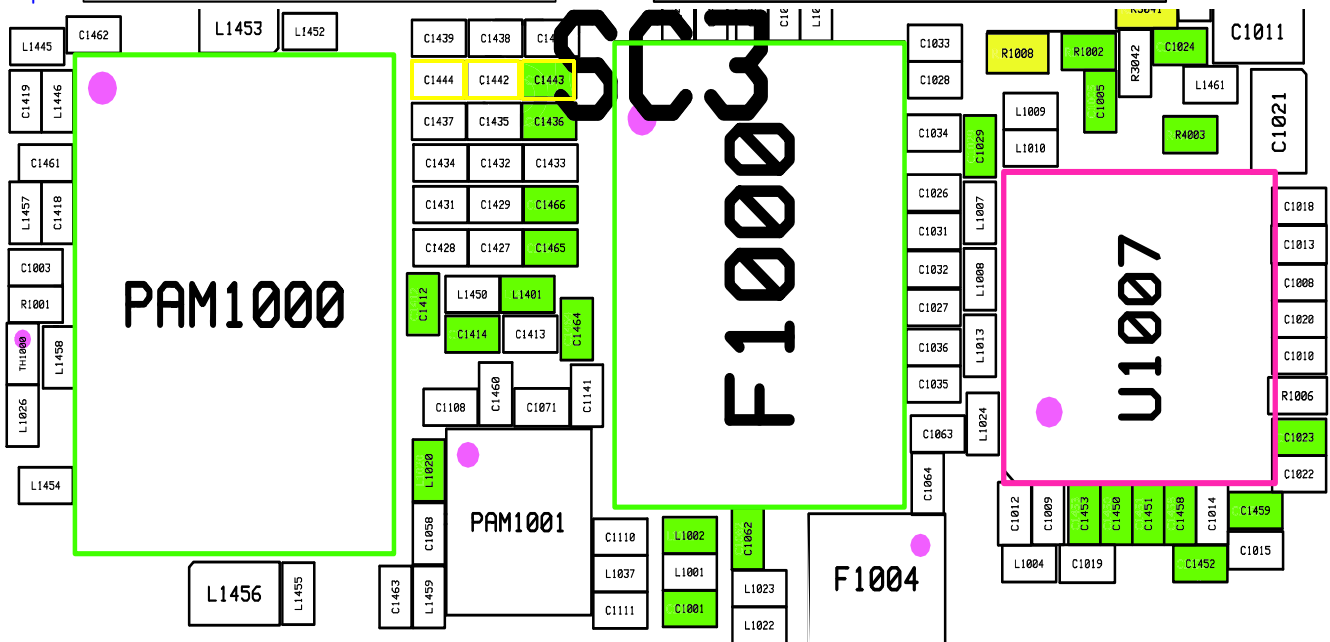
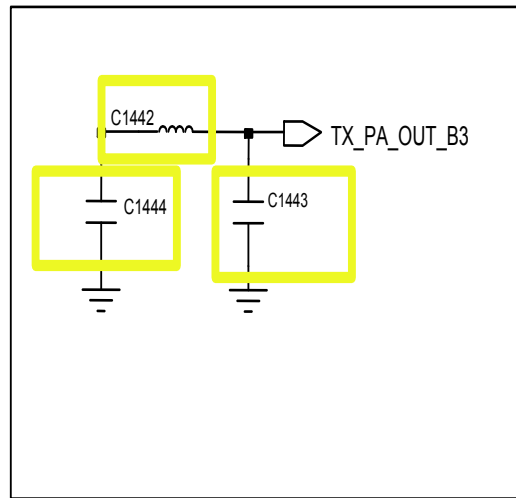
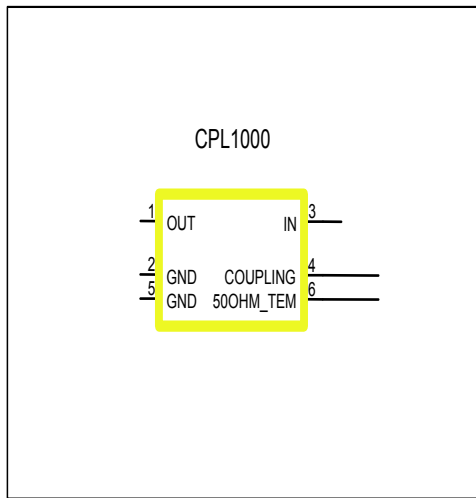


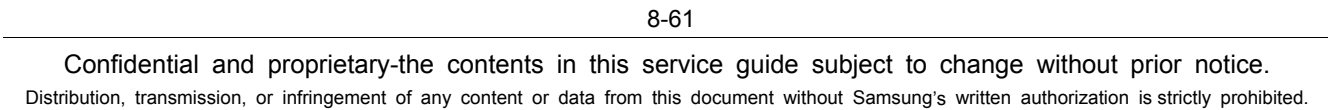




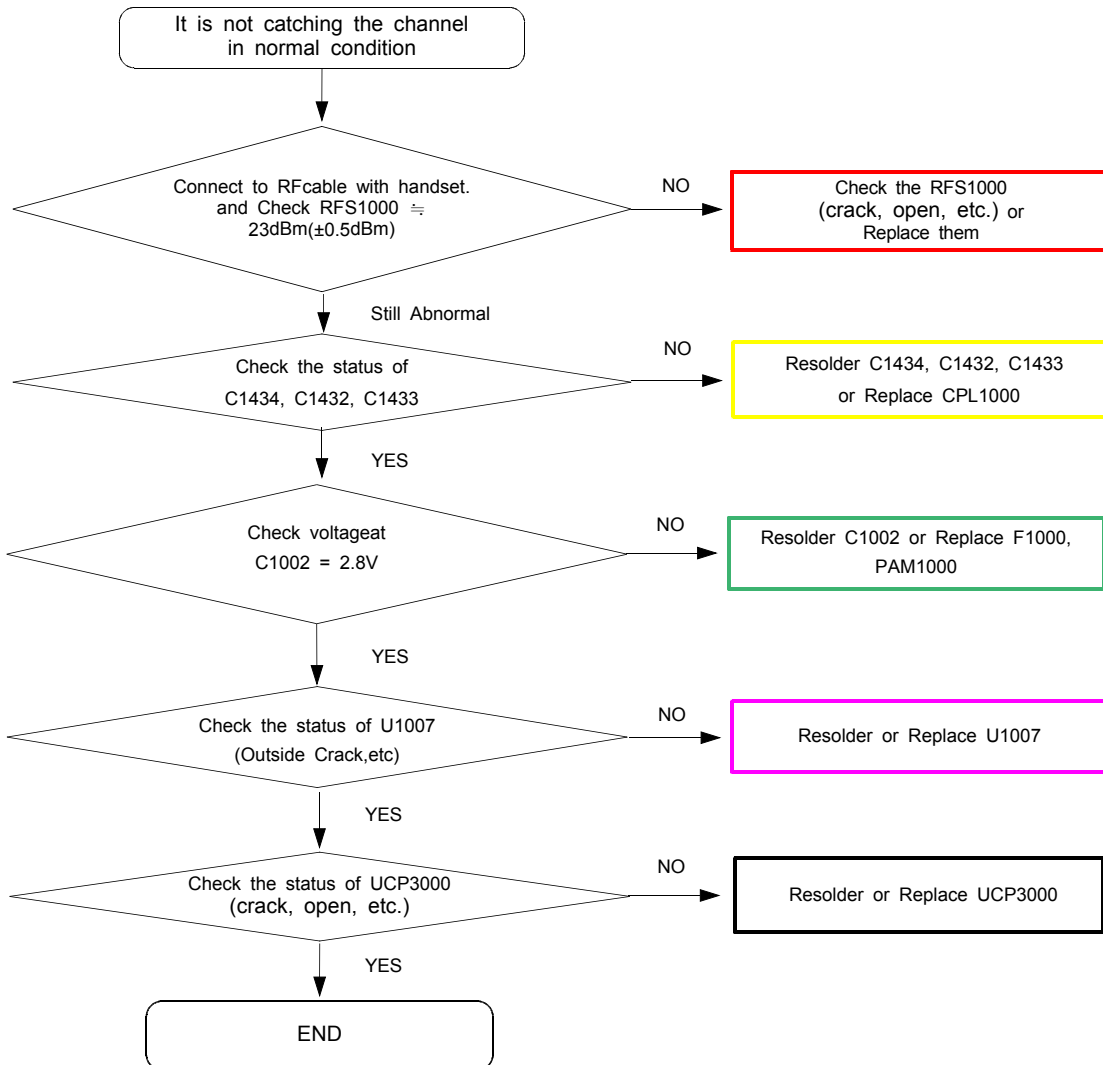
8-4-26. LTE Band3 Tx



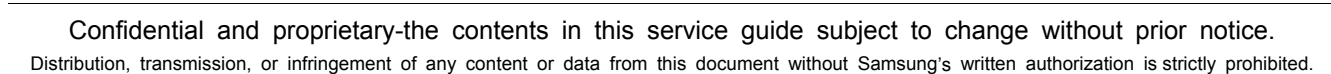




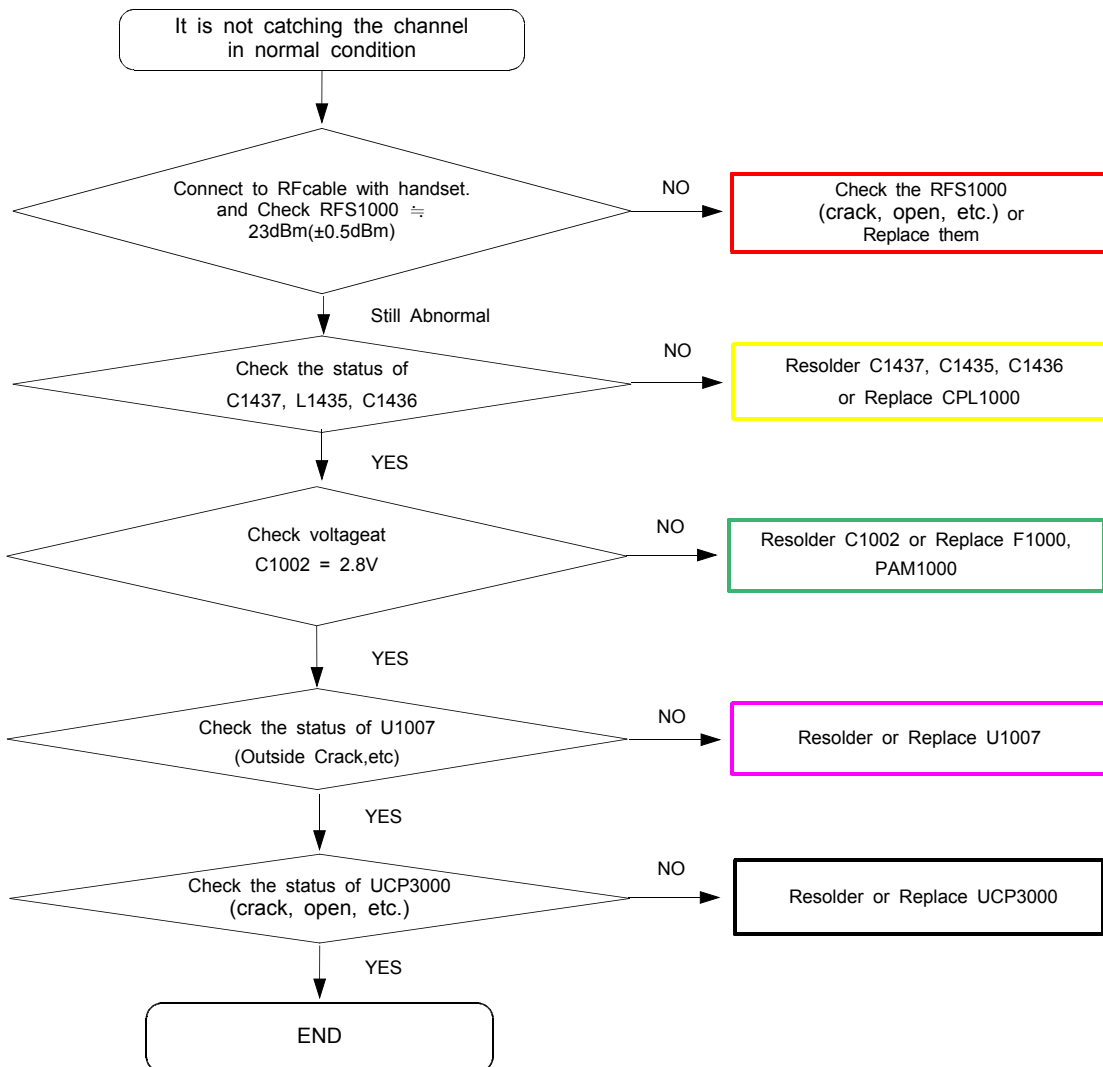
8-4-27. LTE Band2, WCDMA Band2 Tx

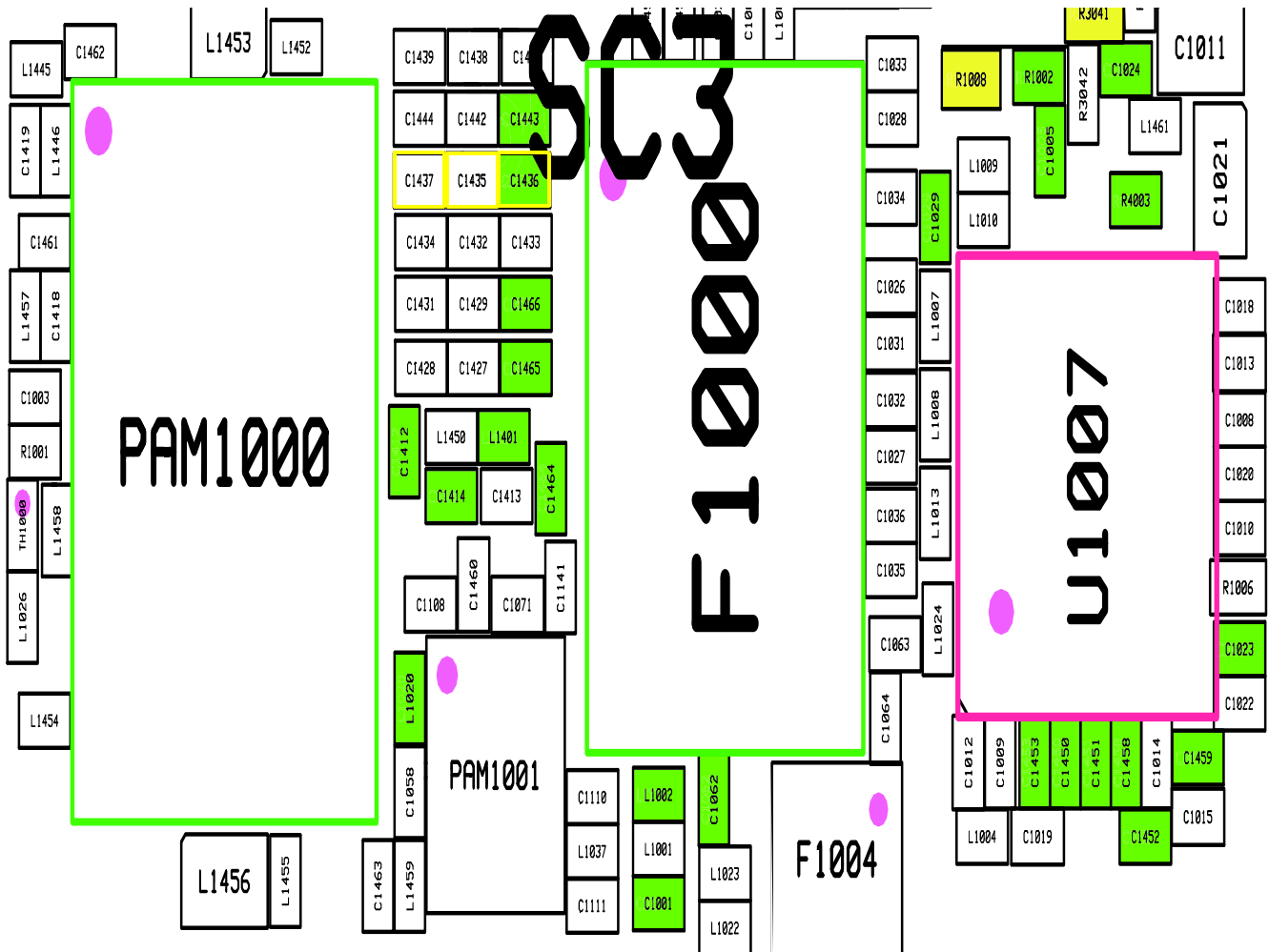


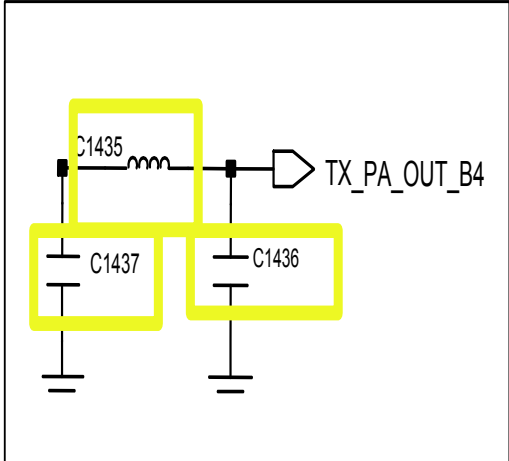
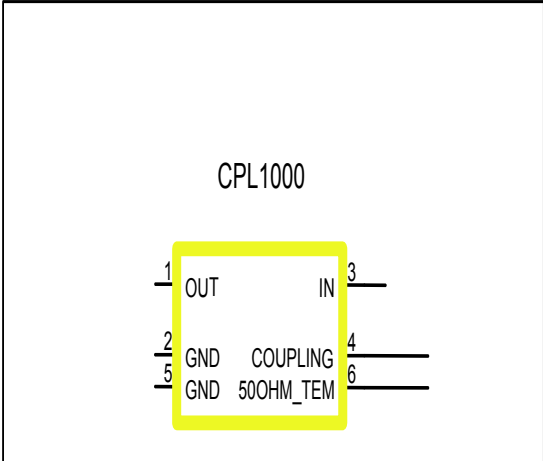
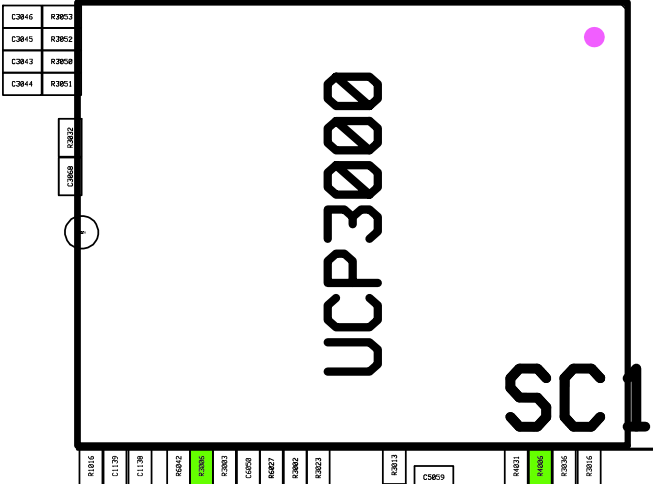




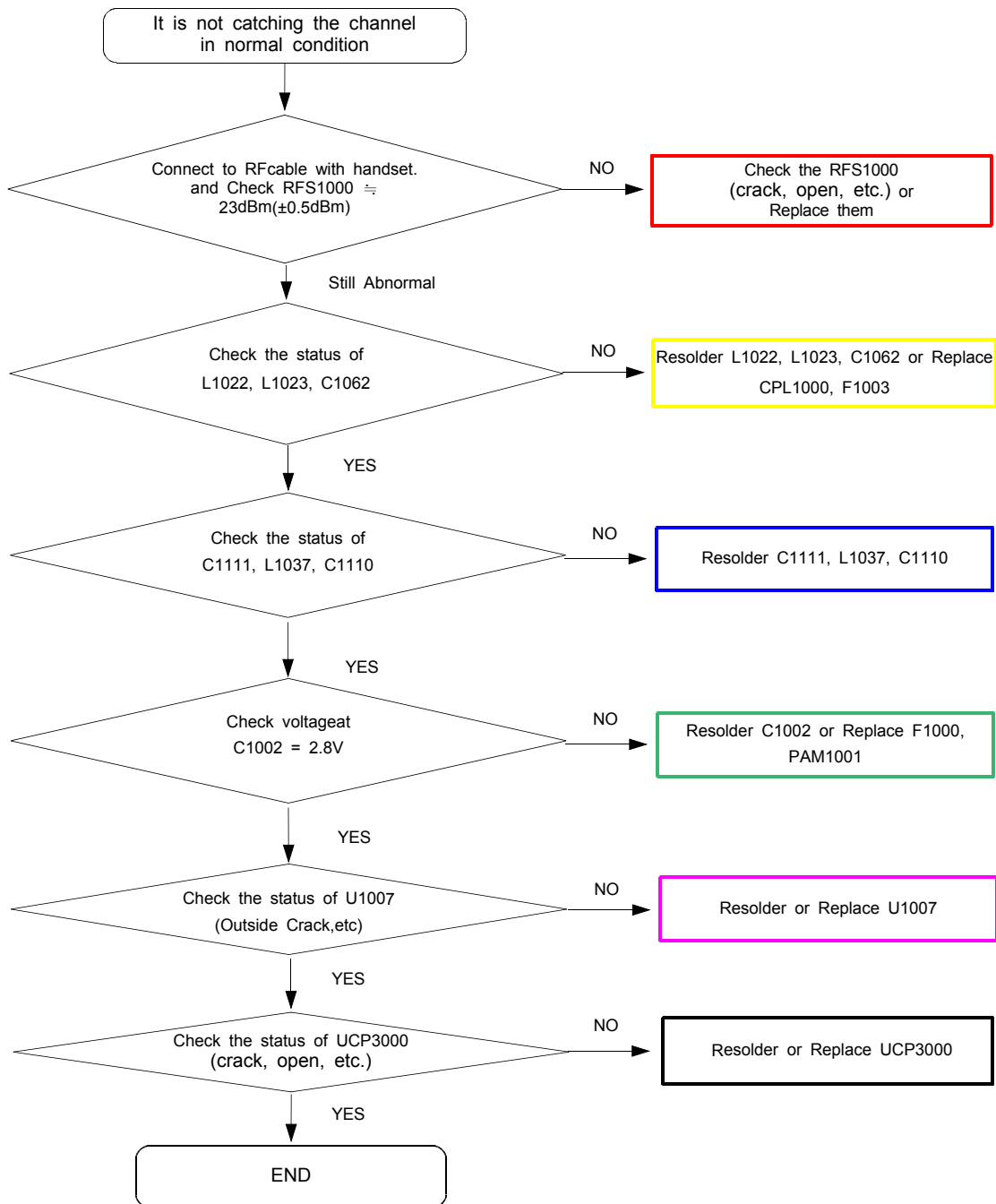
8-4-28. LTE Band4 Tx

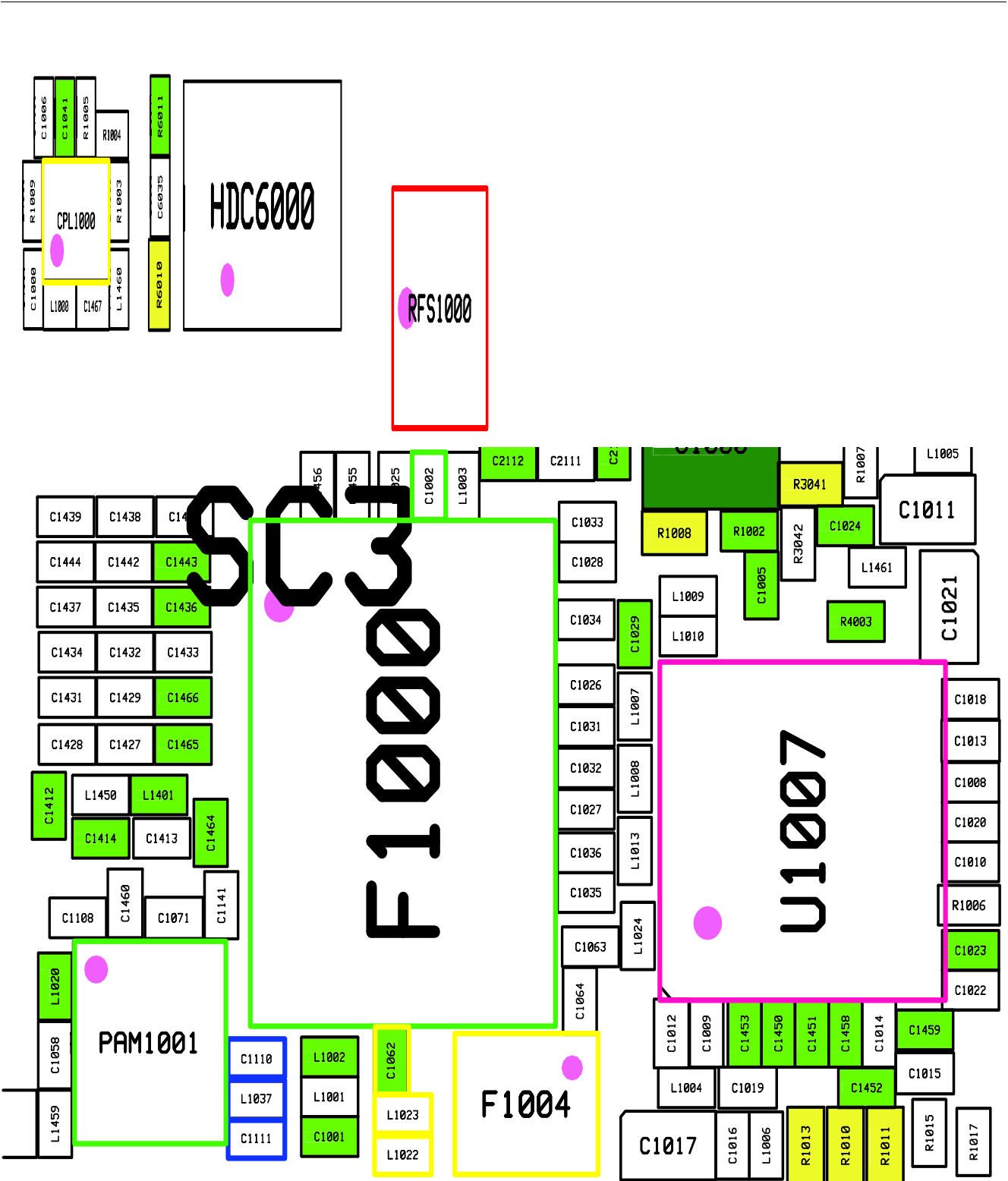


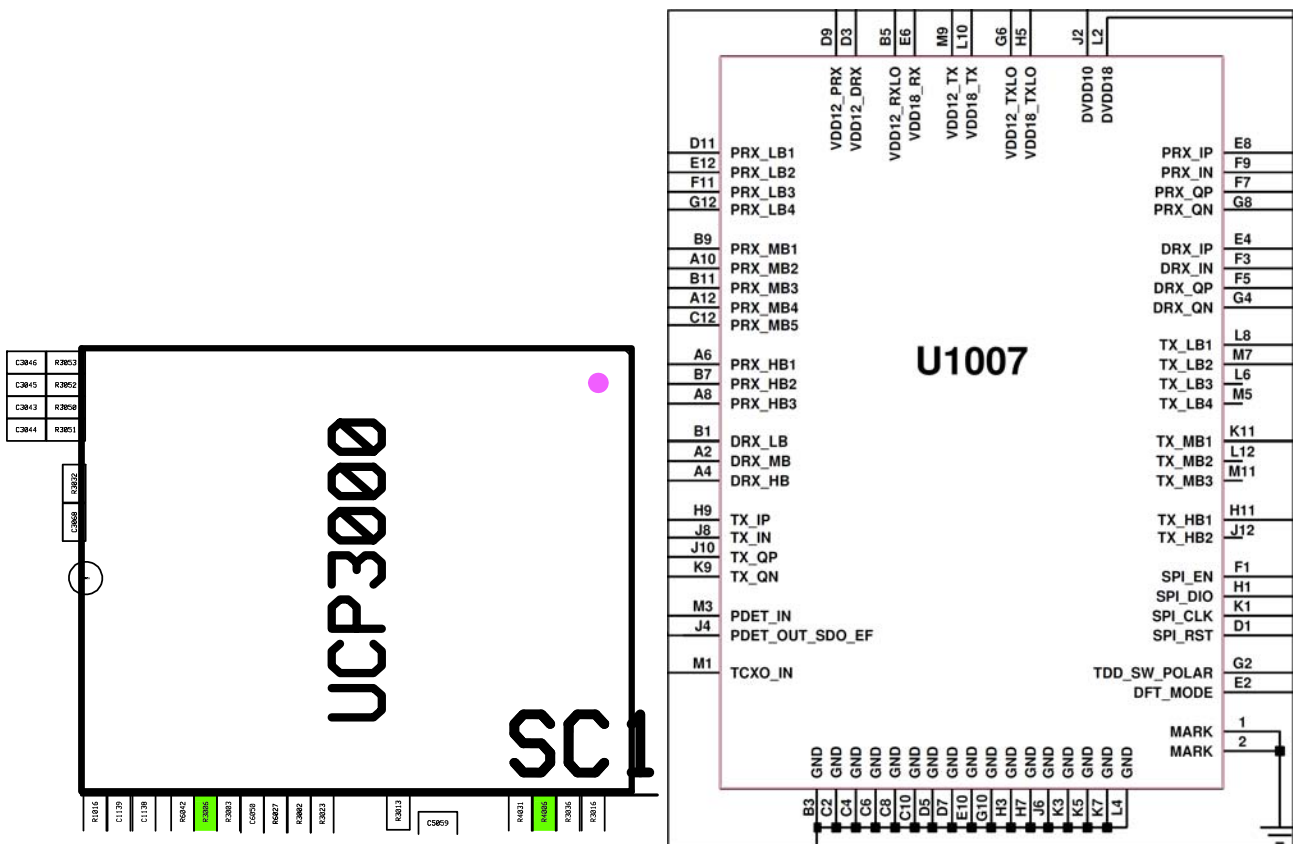
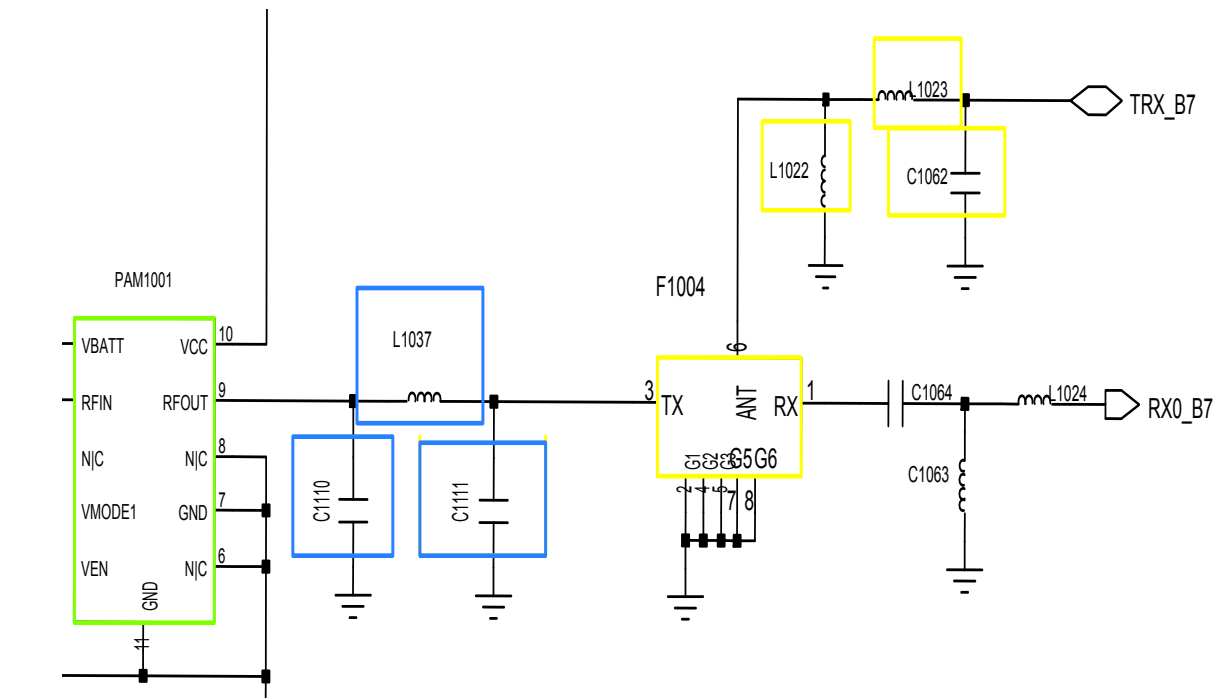




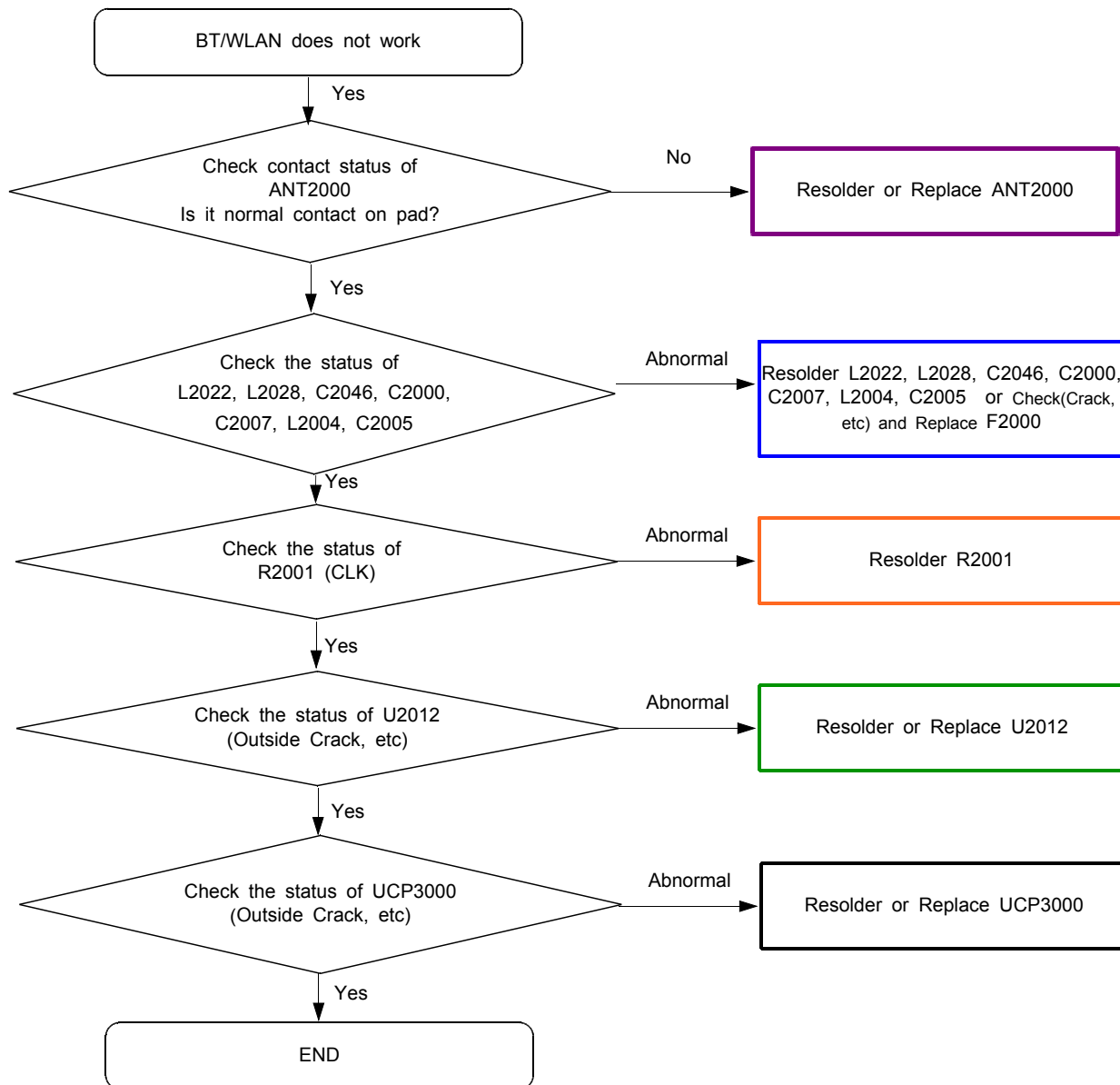
8-4-29. LTE Band7 Tx

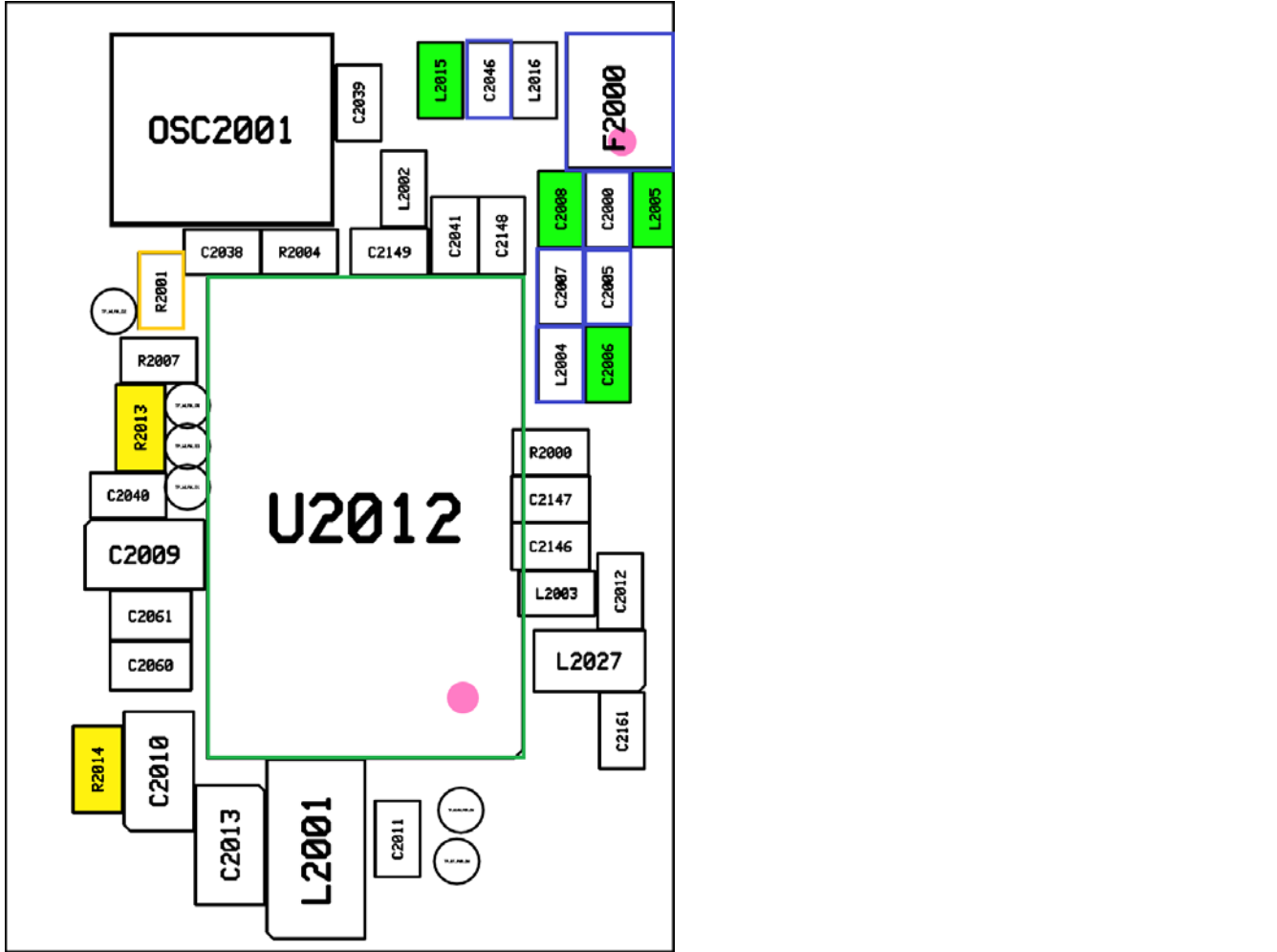


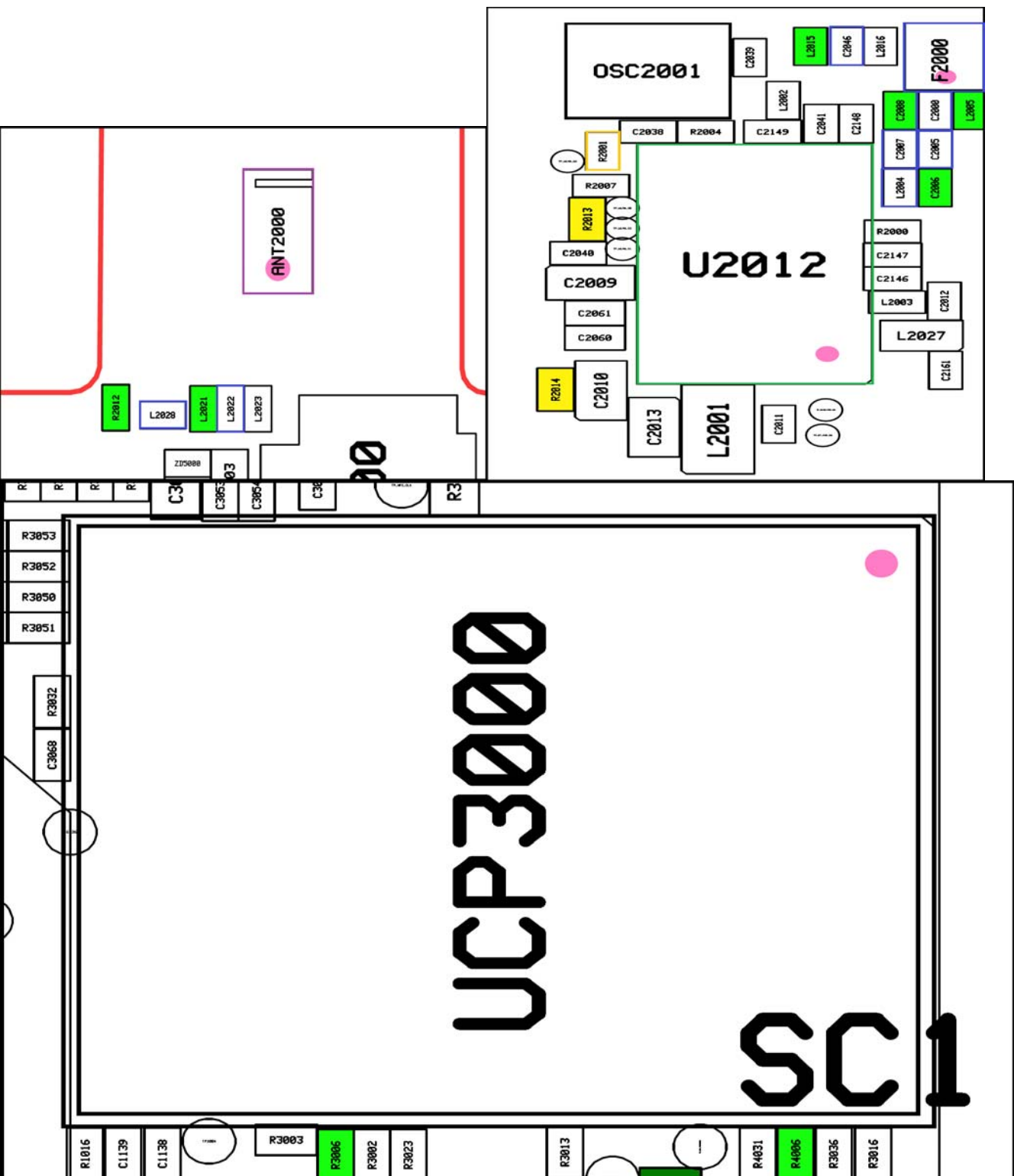




8-4-30. BT/WLAN







8-4-31. GPS

