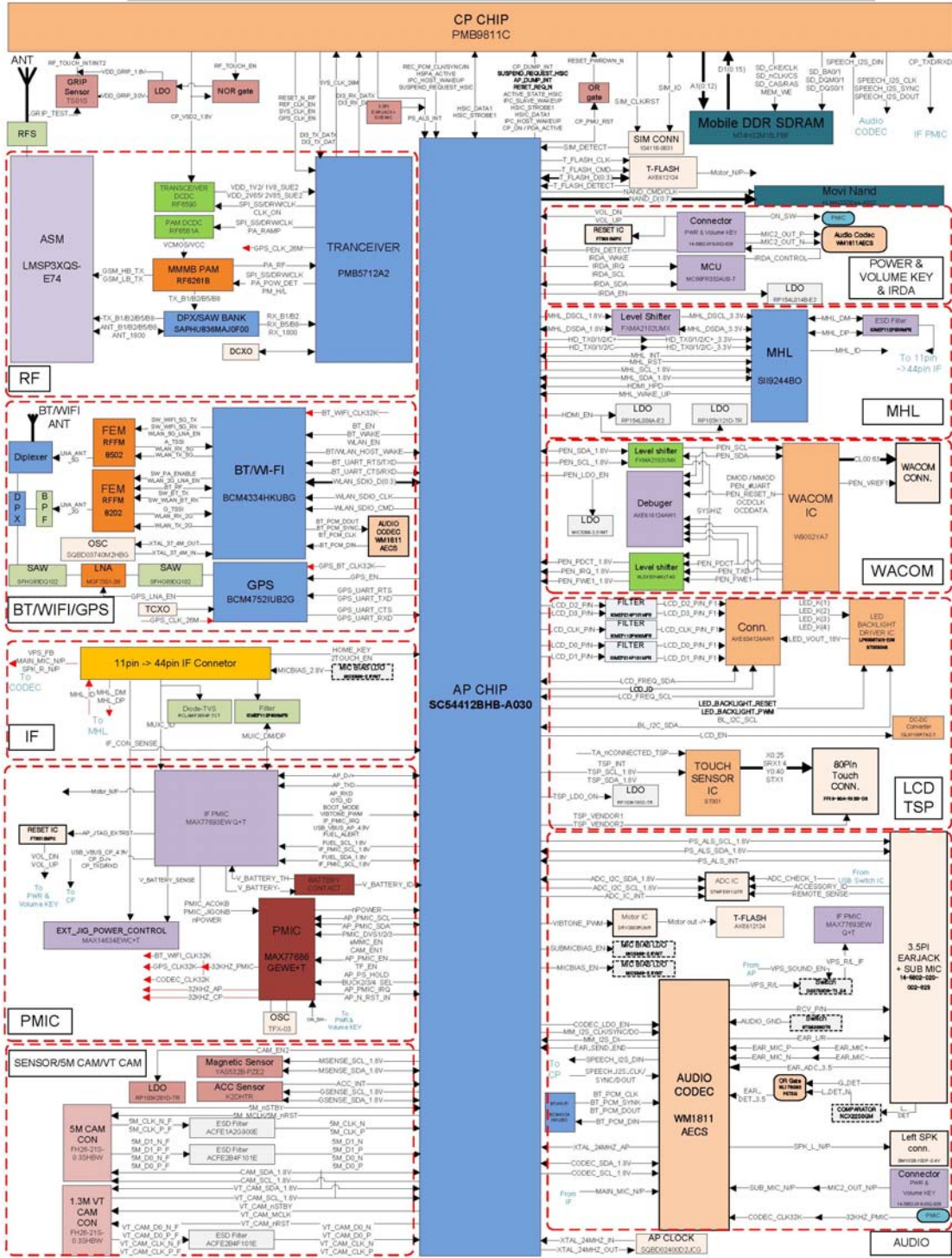


# 8. Level 3 Repair

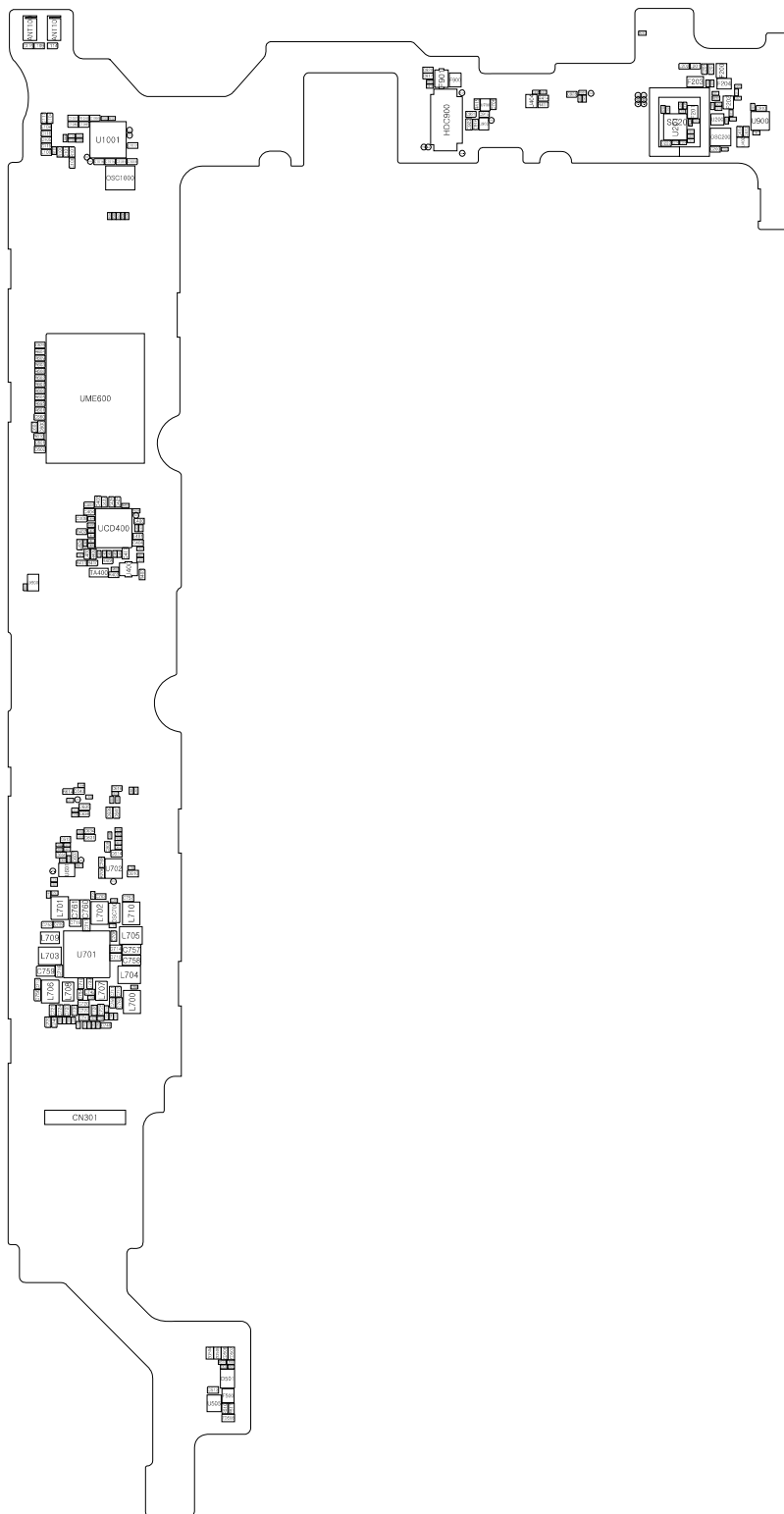
## 8-1. Block Diagram

### GT-N5100 BLOCK DIAGRAM

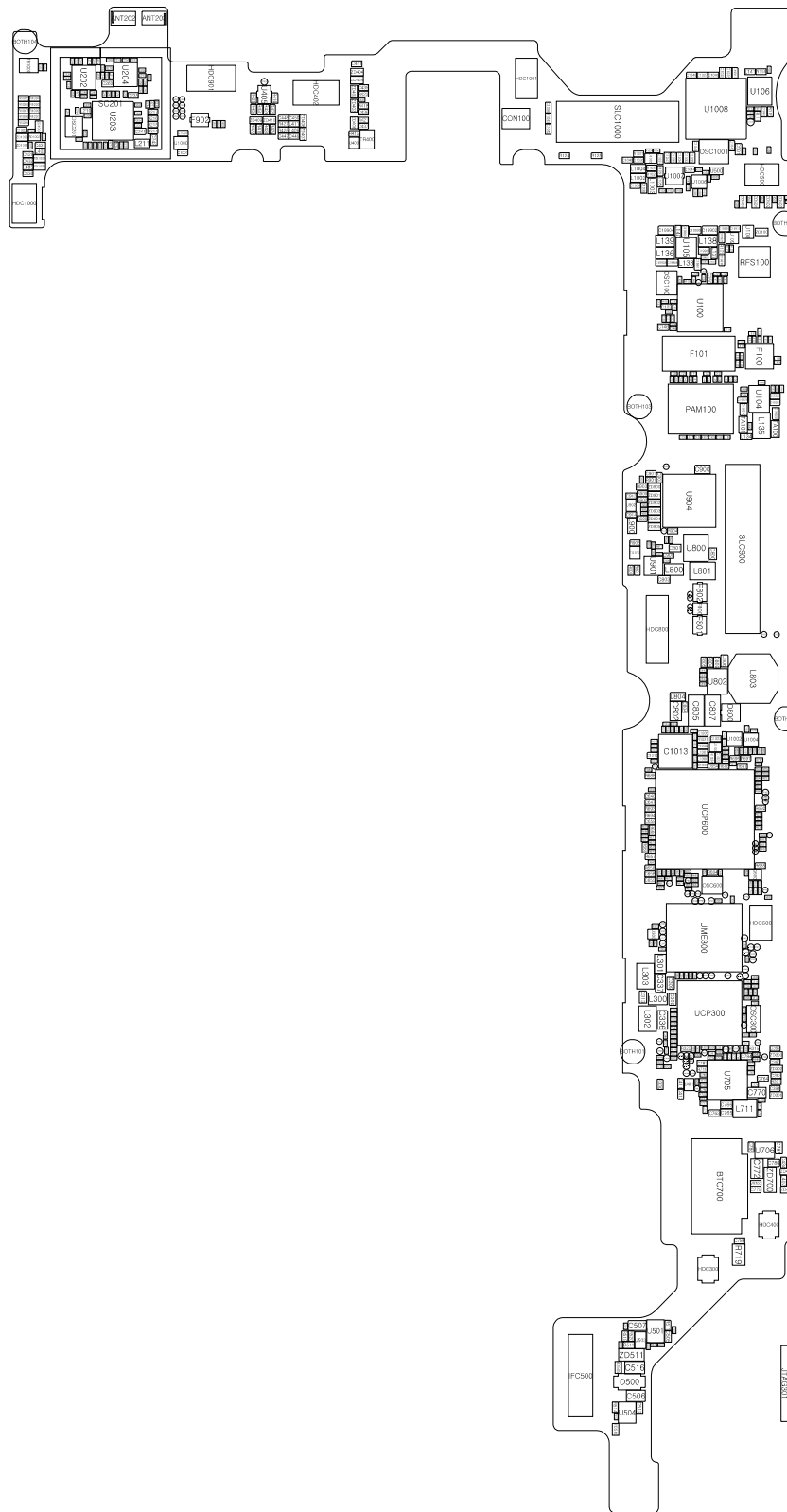


## 8-2. PCB Diagrams

### 8-2-1. Top

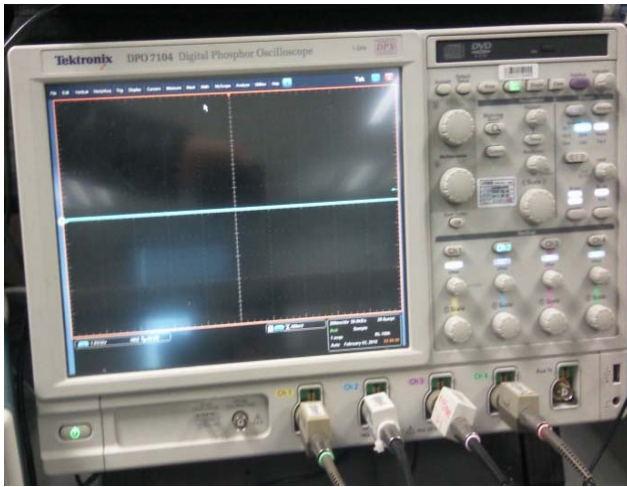


8-2-2. Bottom



### 8-3. Flow Chart of Troubleshooting

#### Equipments



↑ Oscilloscope



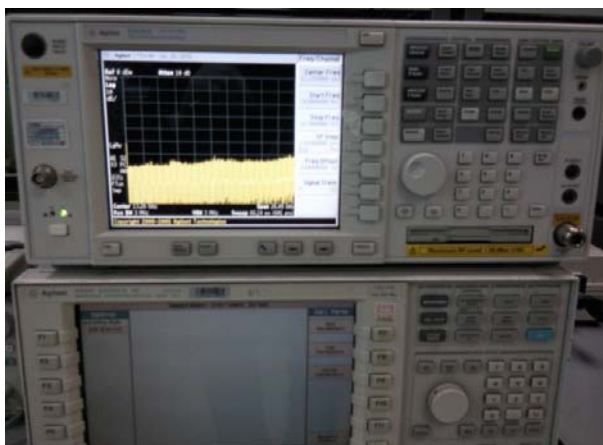
↑ Digital Multimeter



↑ Power Supply



↑ + driver, ESD Safe Tweezer

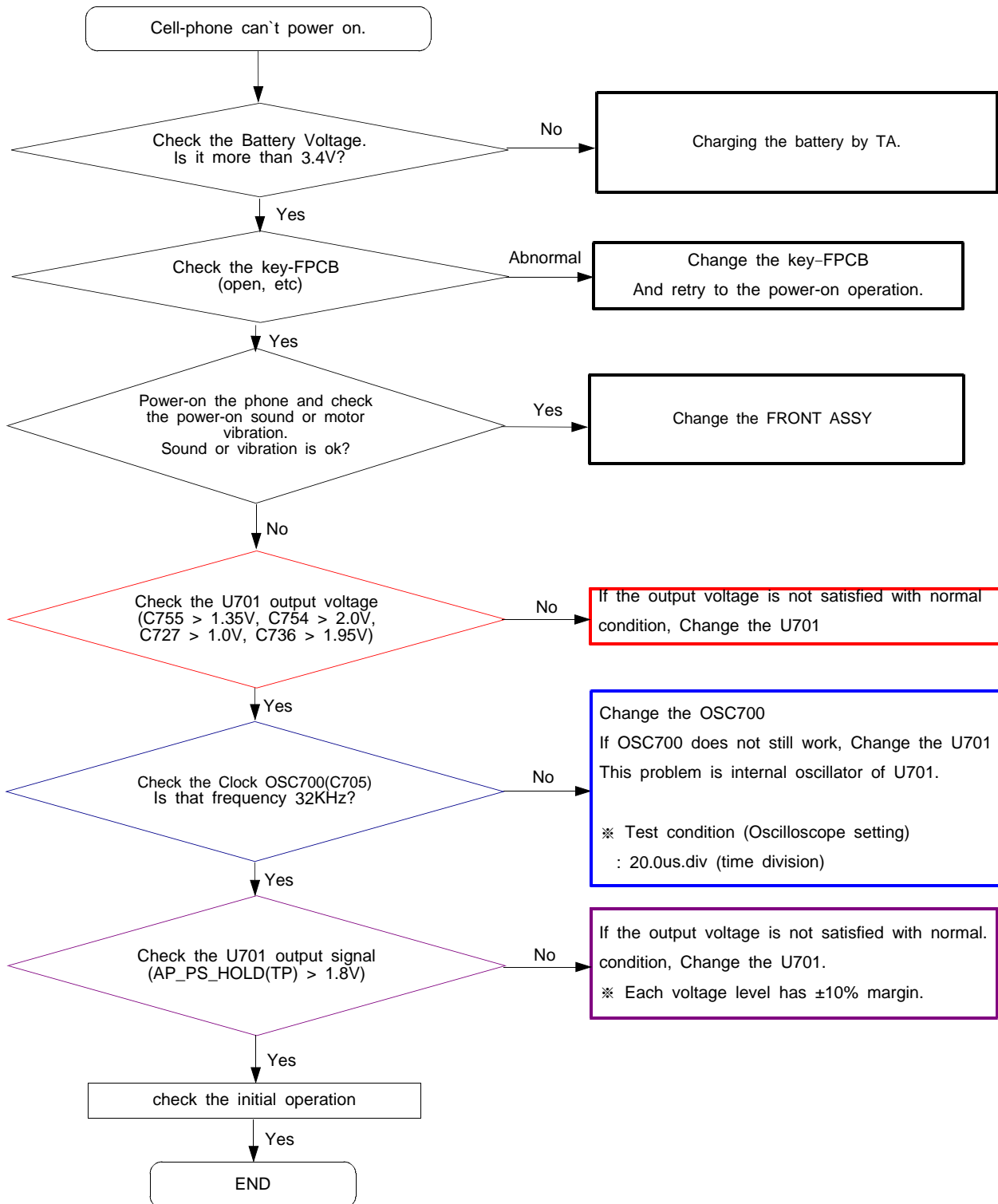


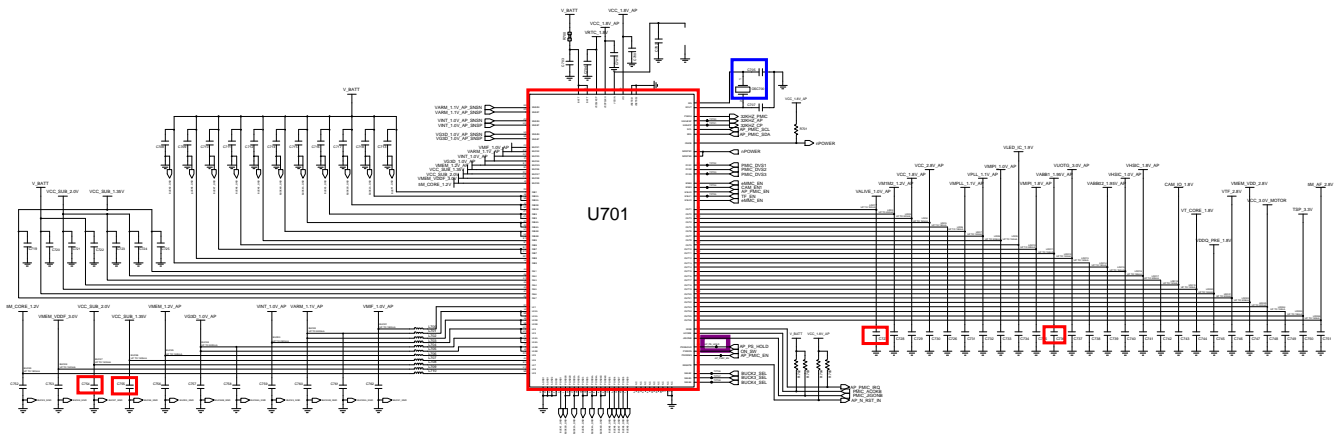
↑ 8960 & Spectrum Analyzer



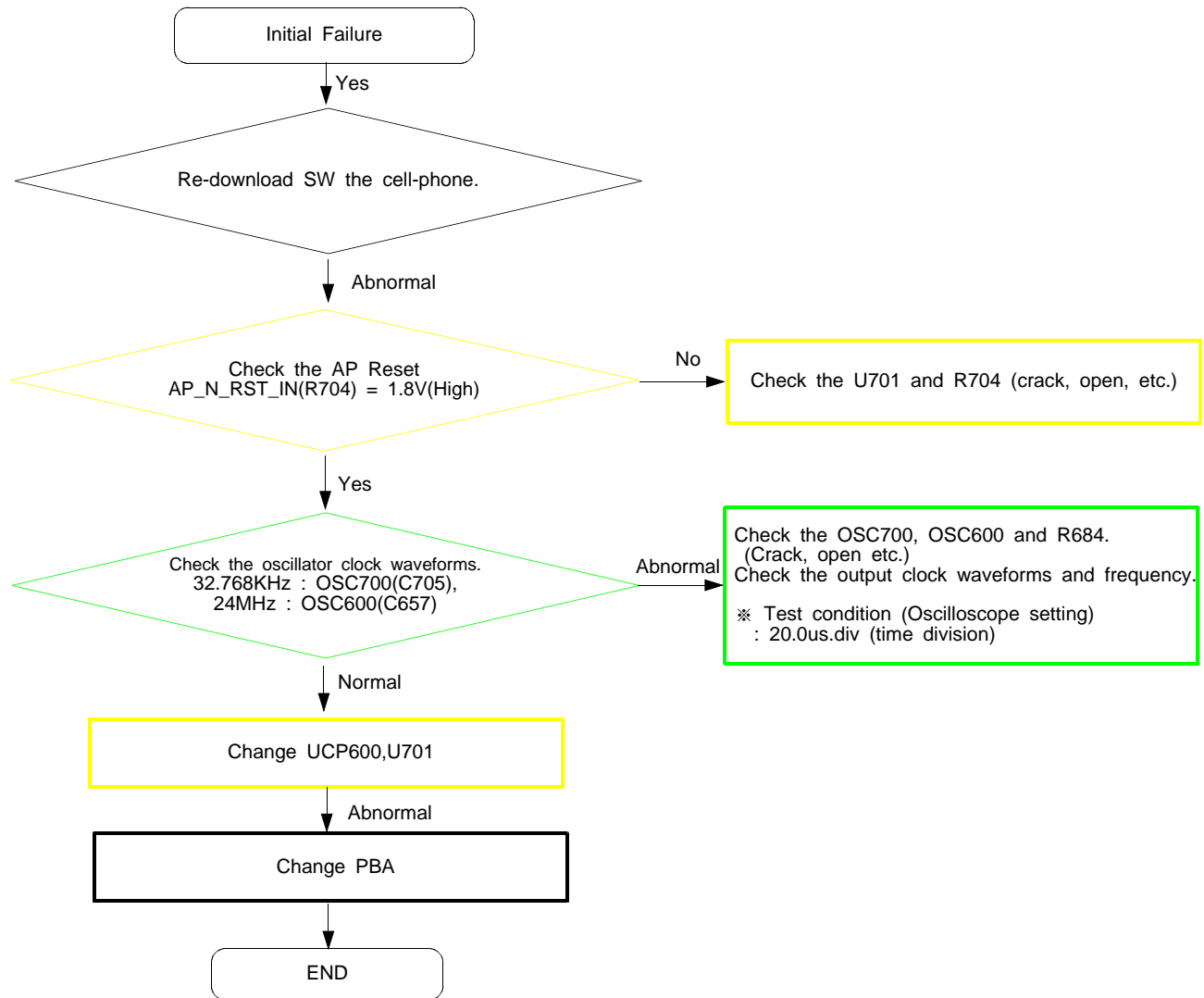
↑ Soldering iron

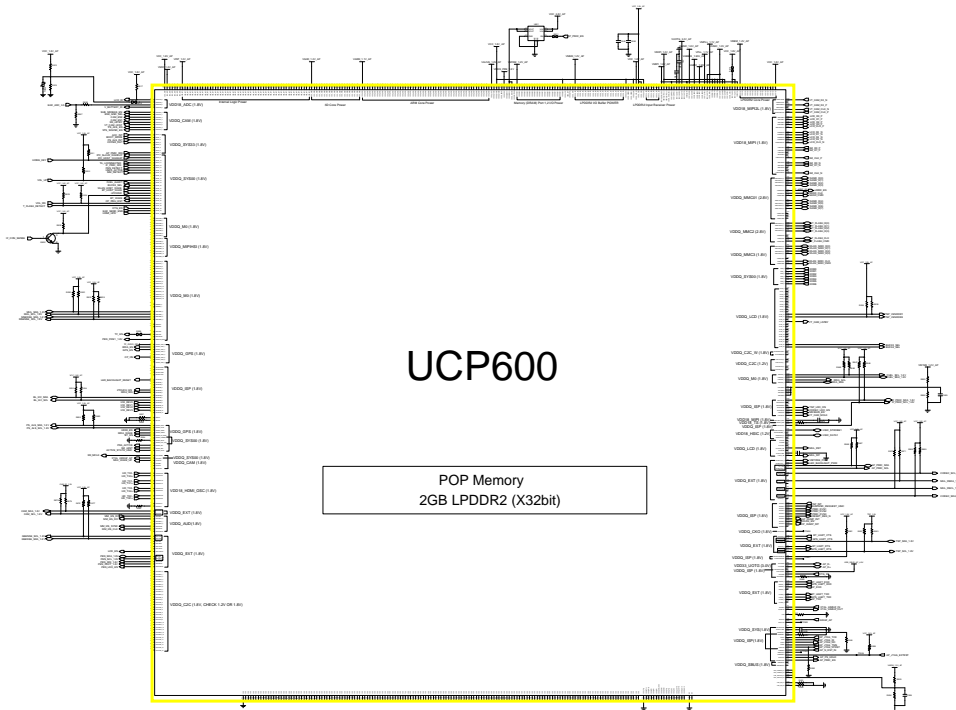
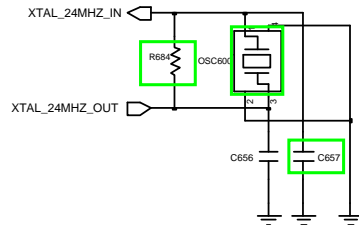
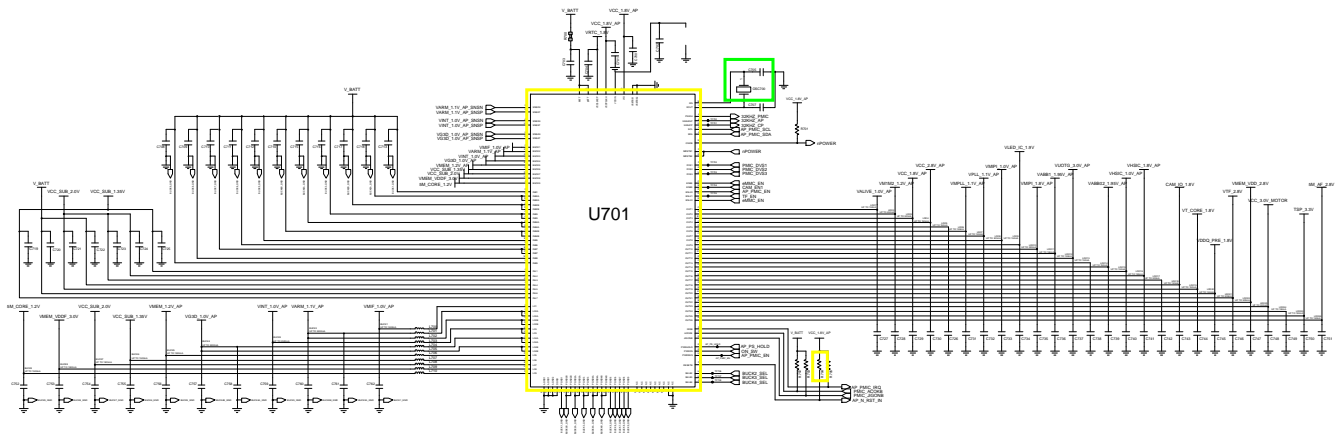
8-3-1. Power On





8-3-2. Initial



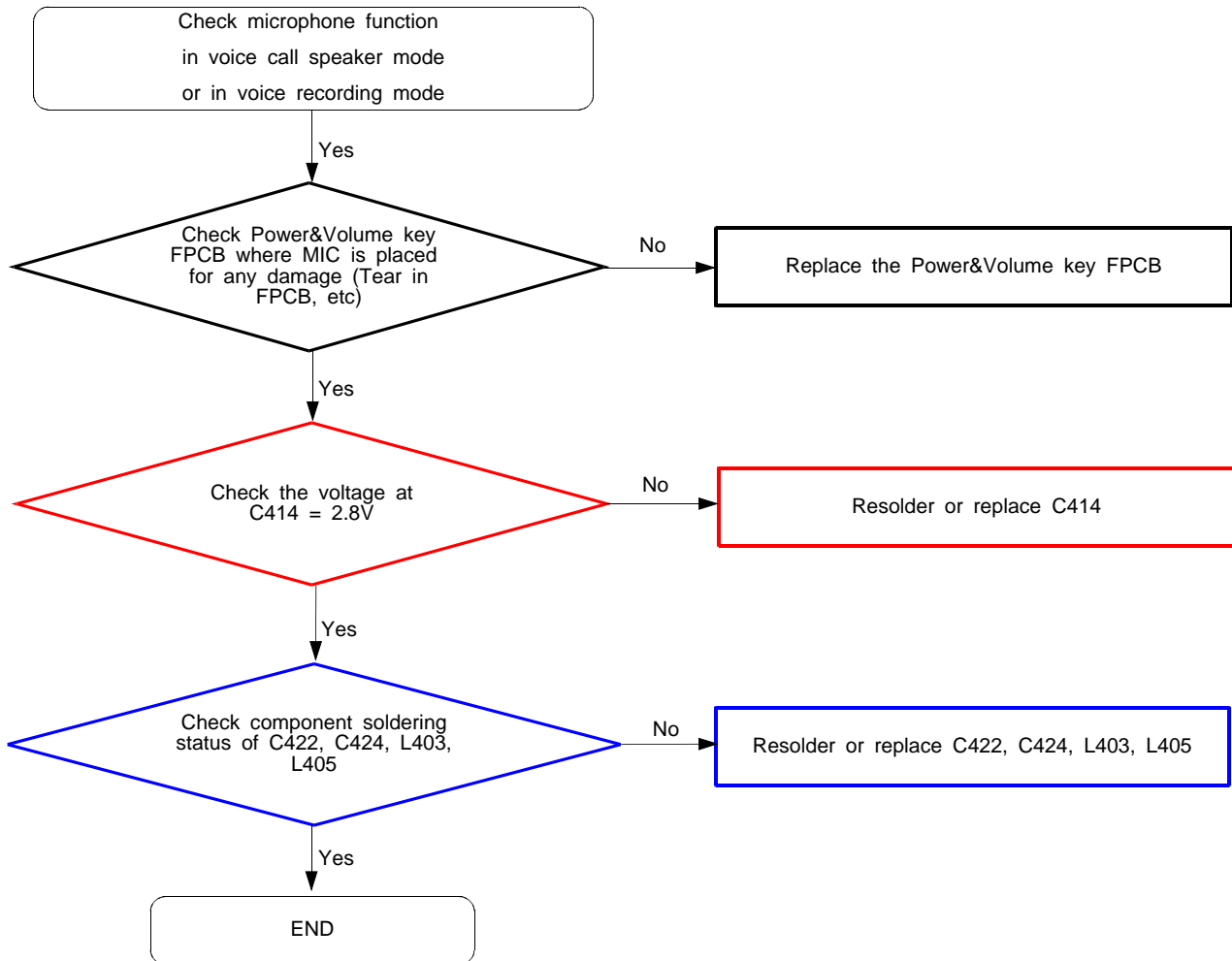


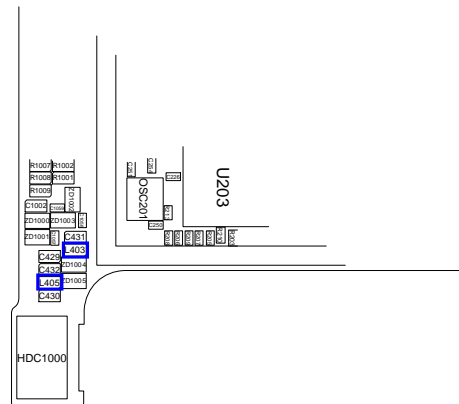
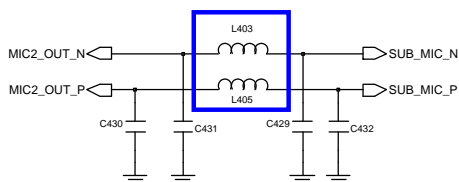
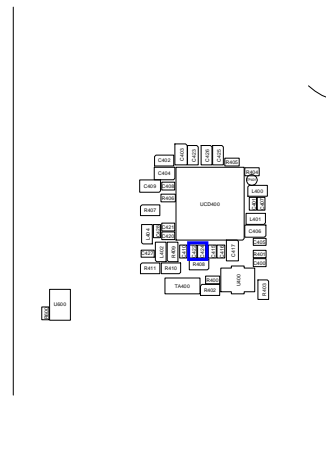
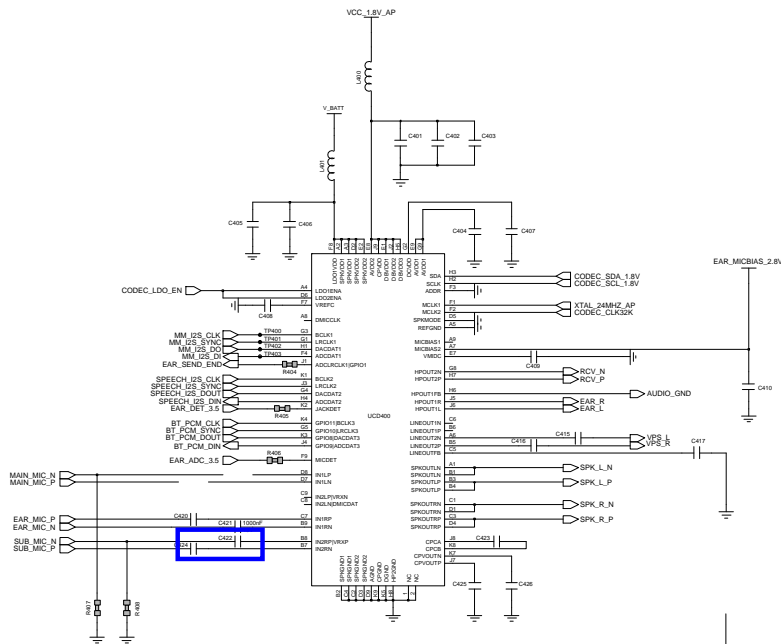
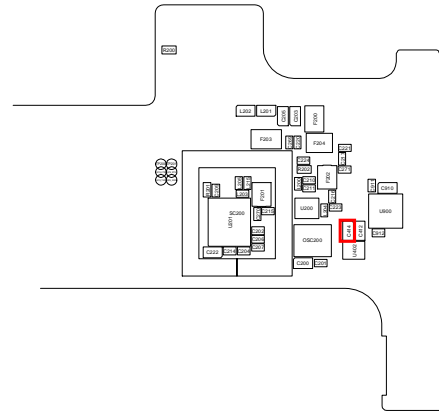
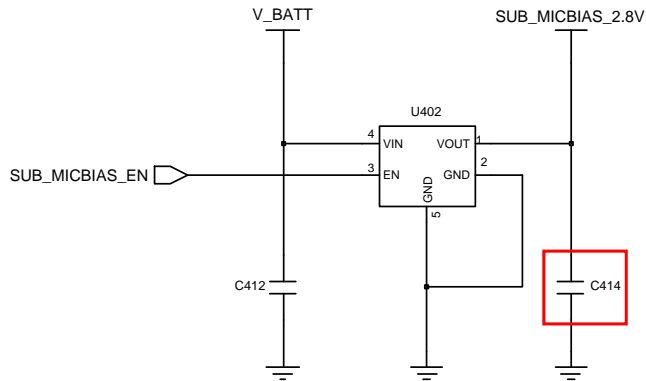




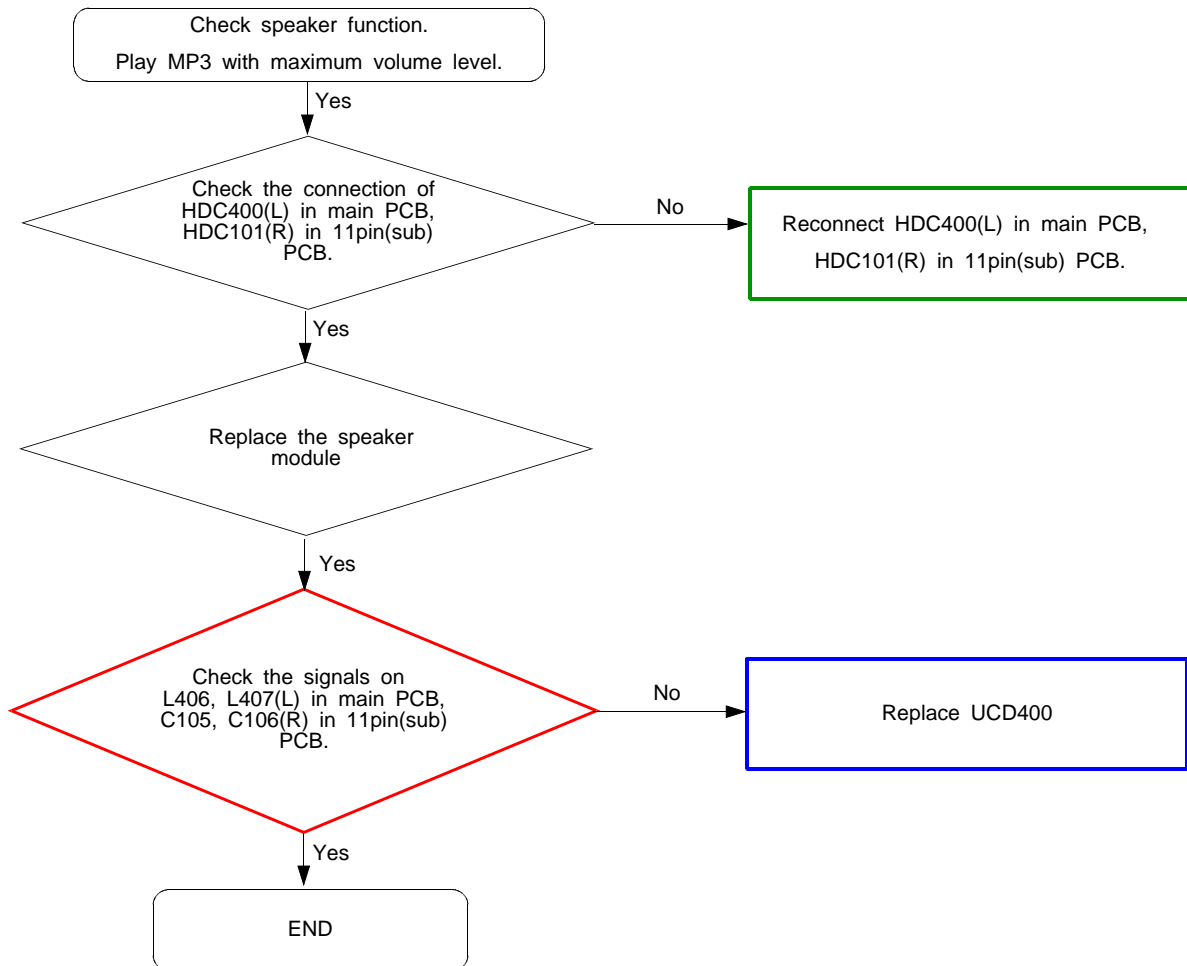


### 8-3-4. Microphone Part



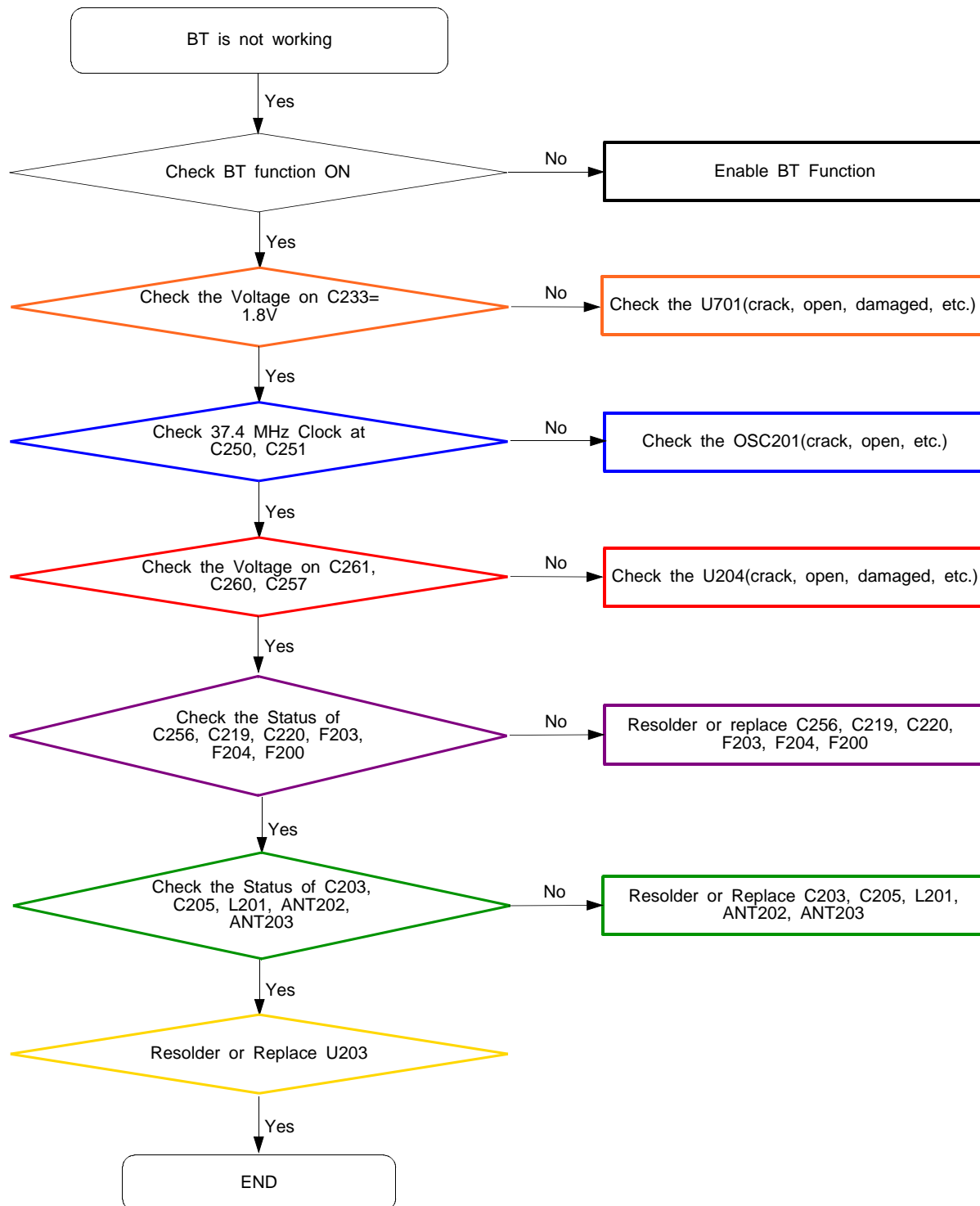


### 8-3-5. Speaker Part





8-3-6. BT Part

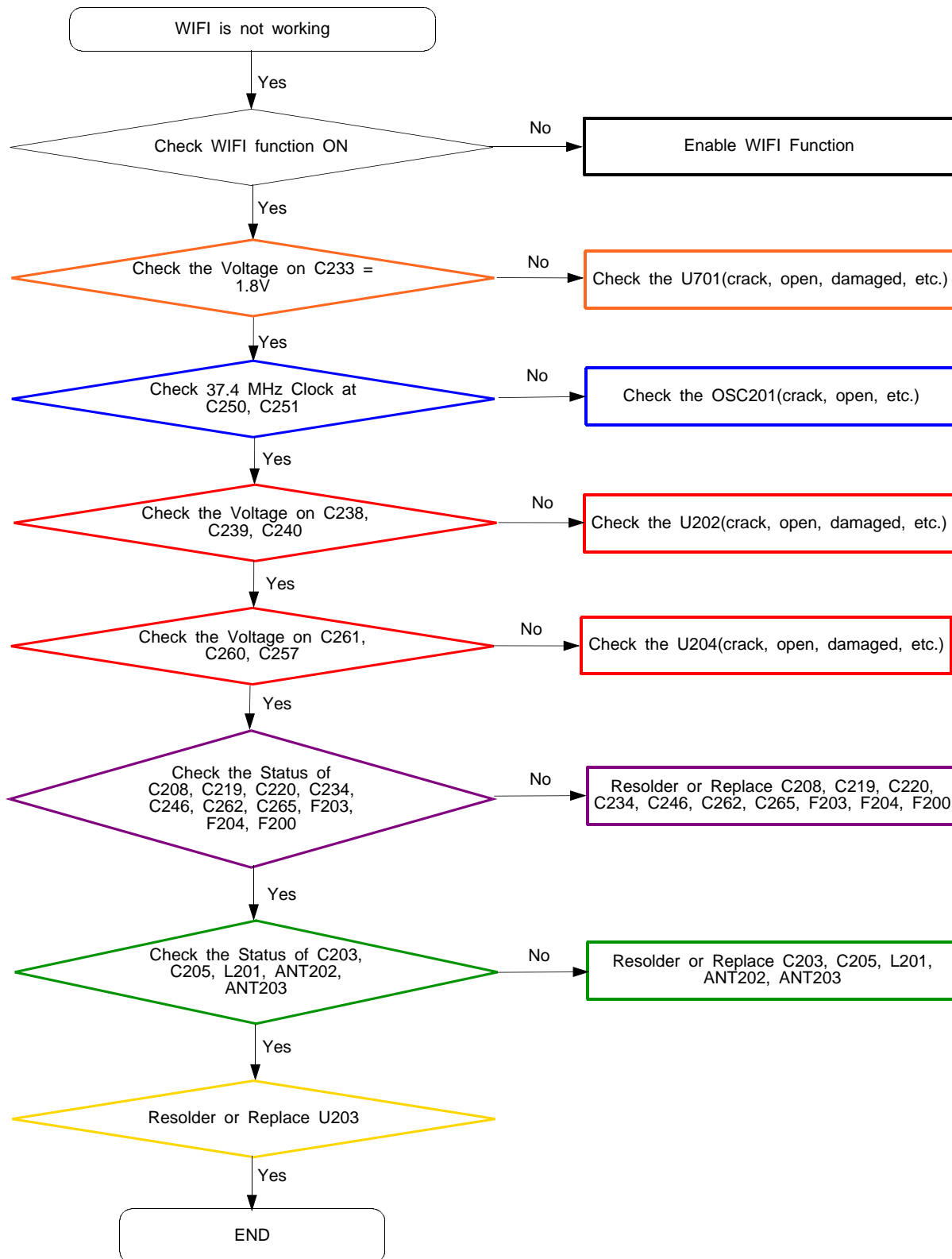


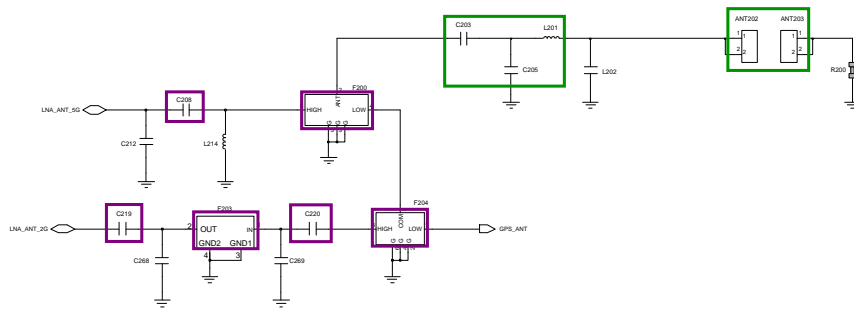
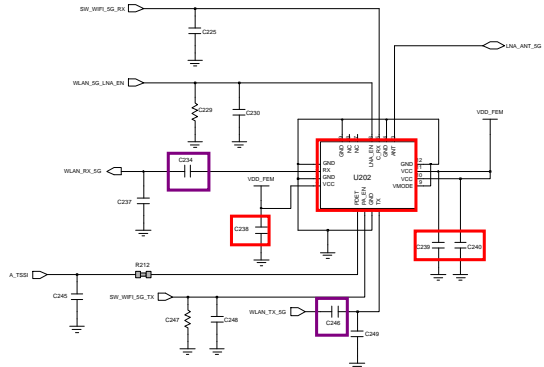
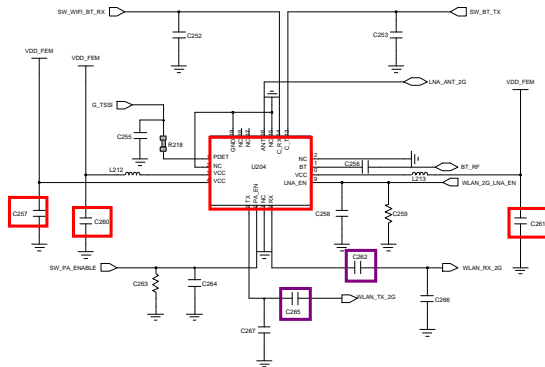
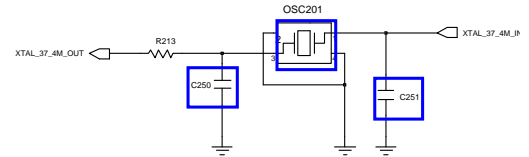
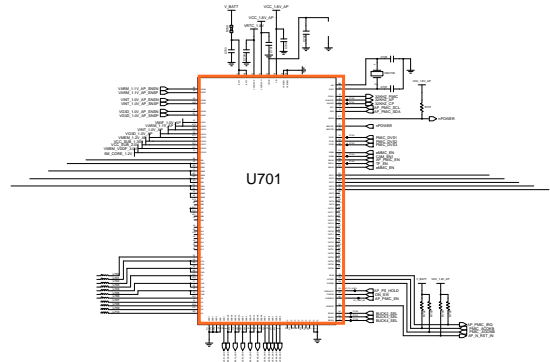
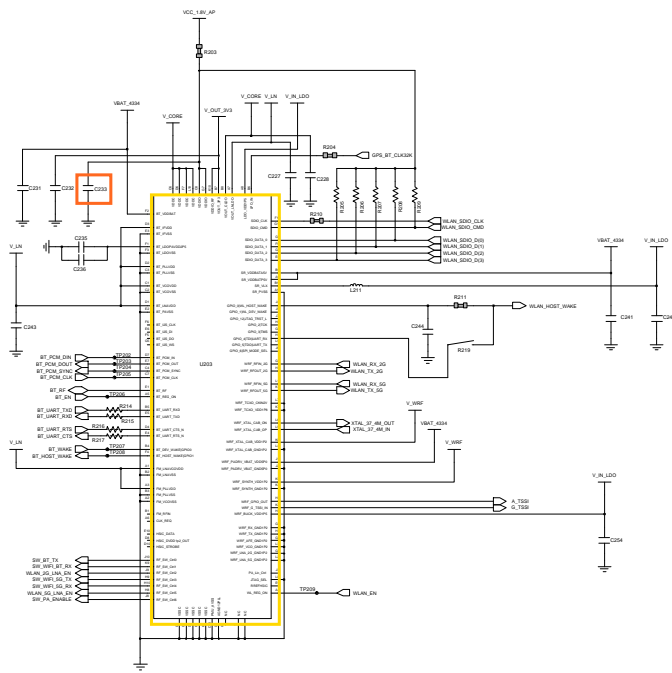


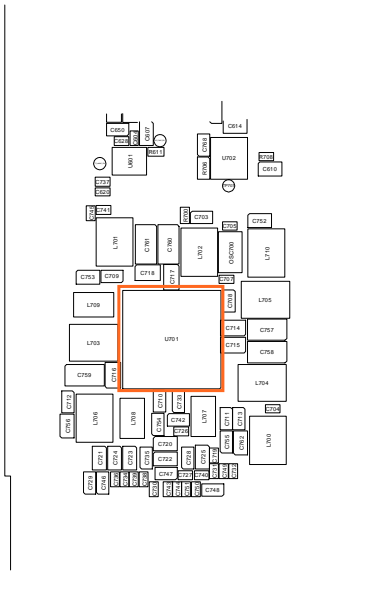
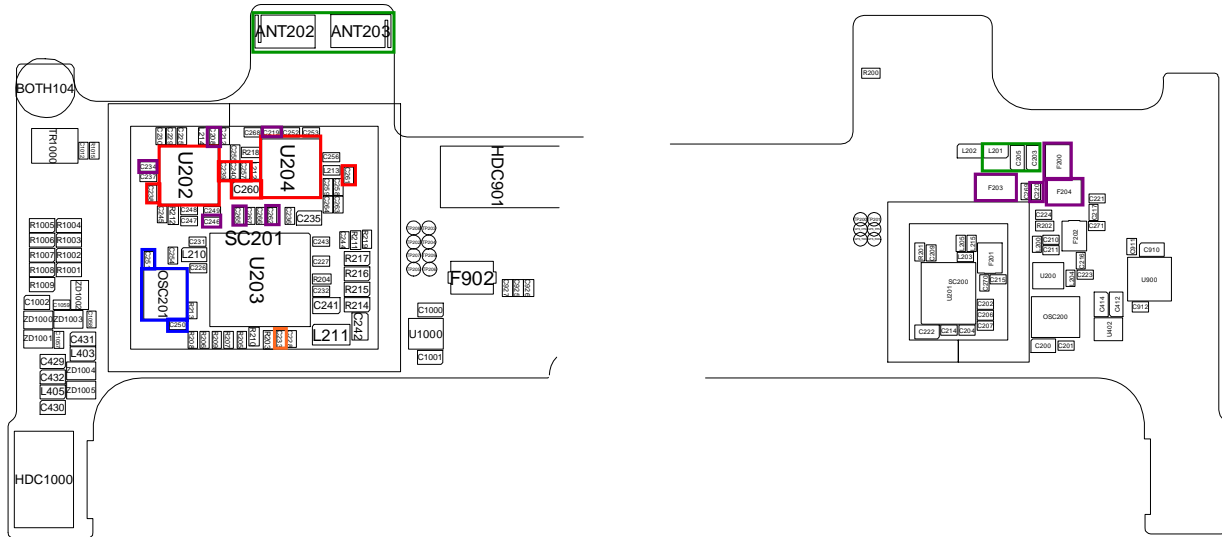




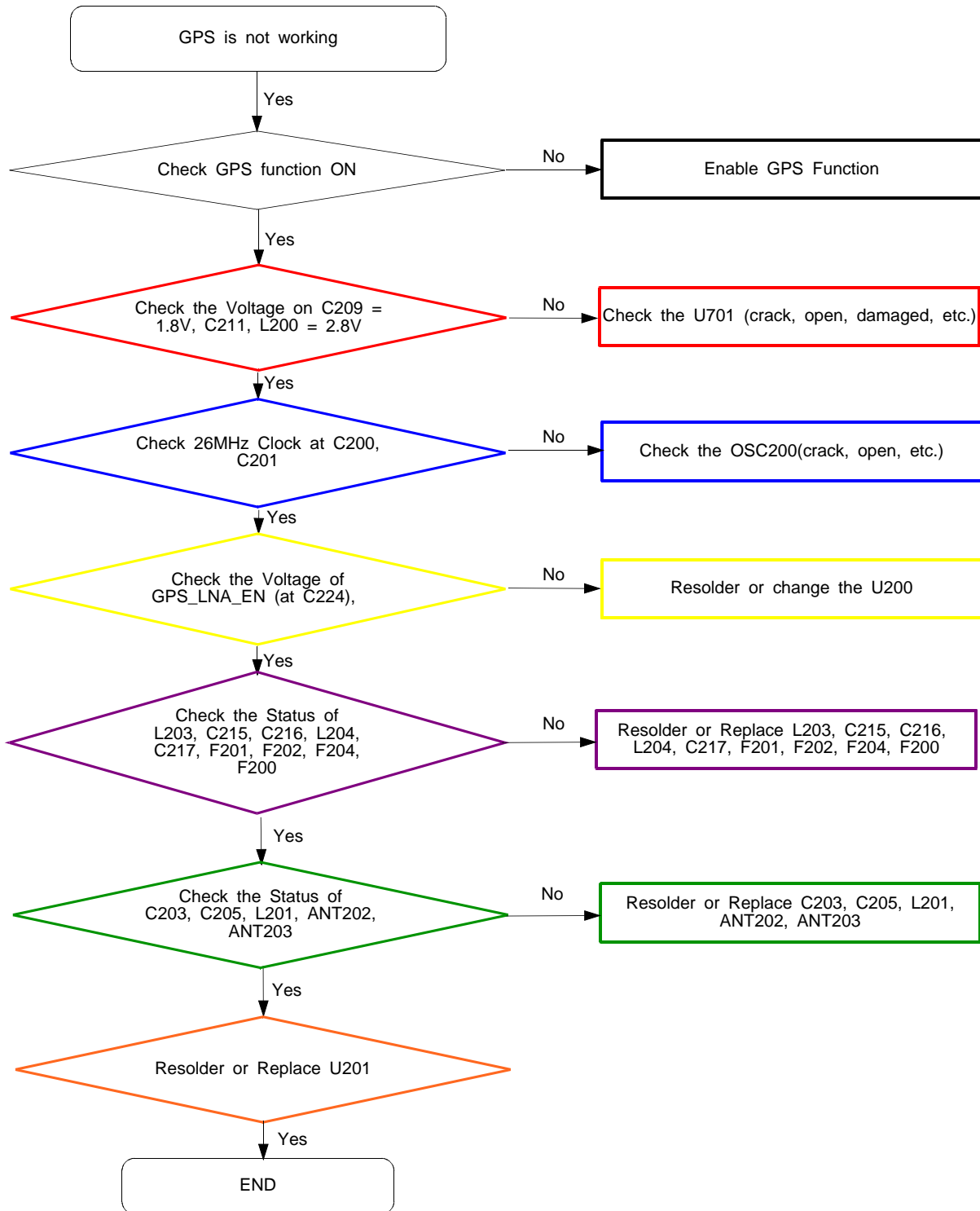
8-3-7. WIFI Part



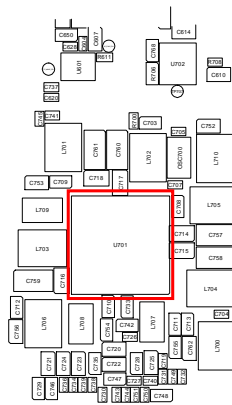
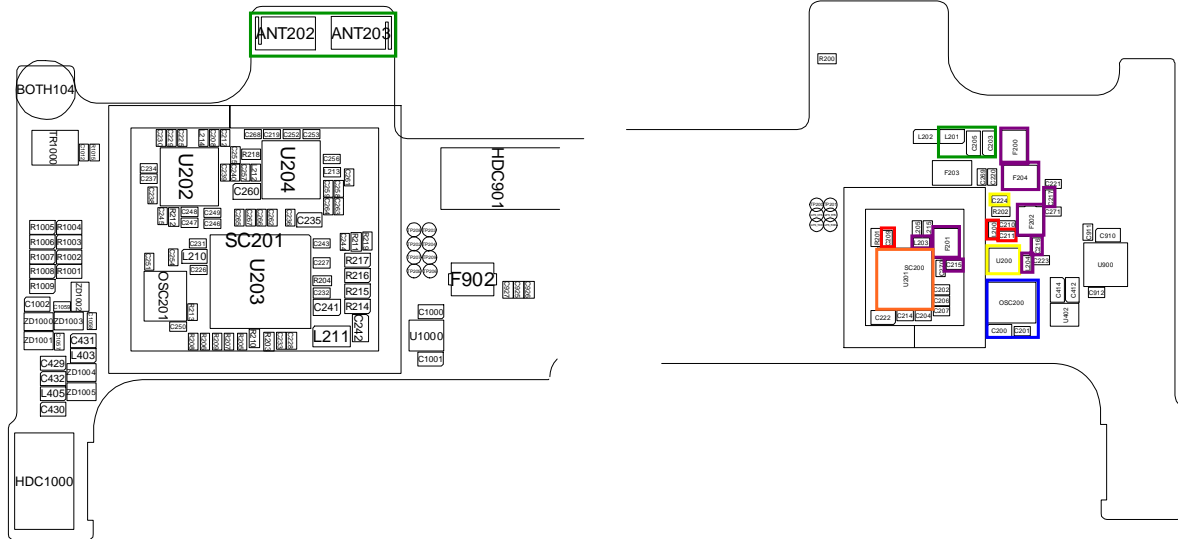




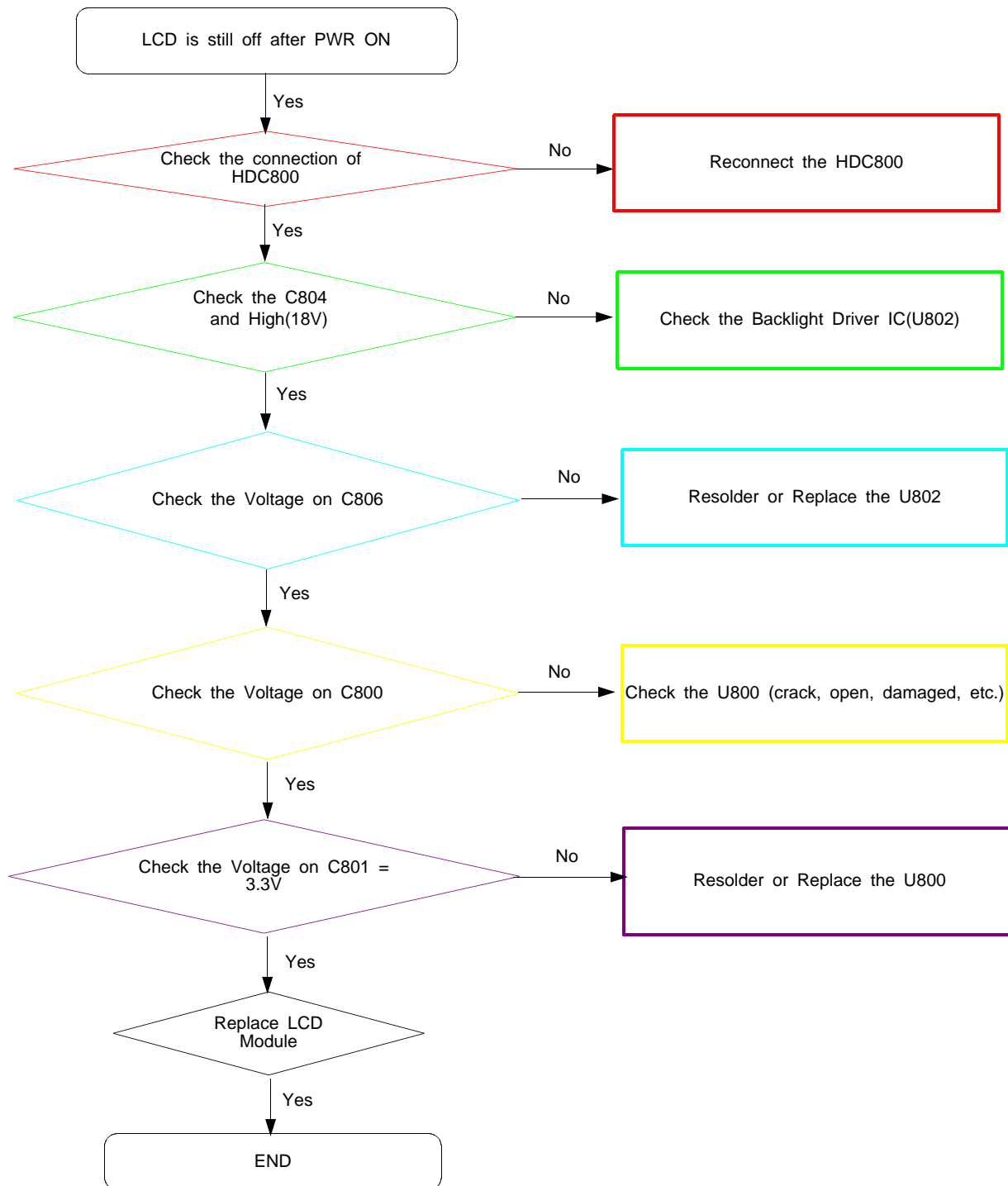
8-3-8. GPS Part



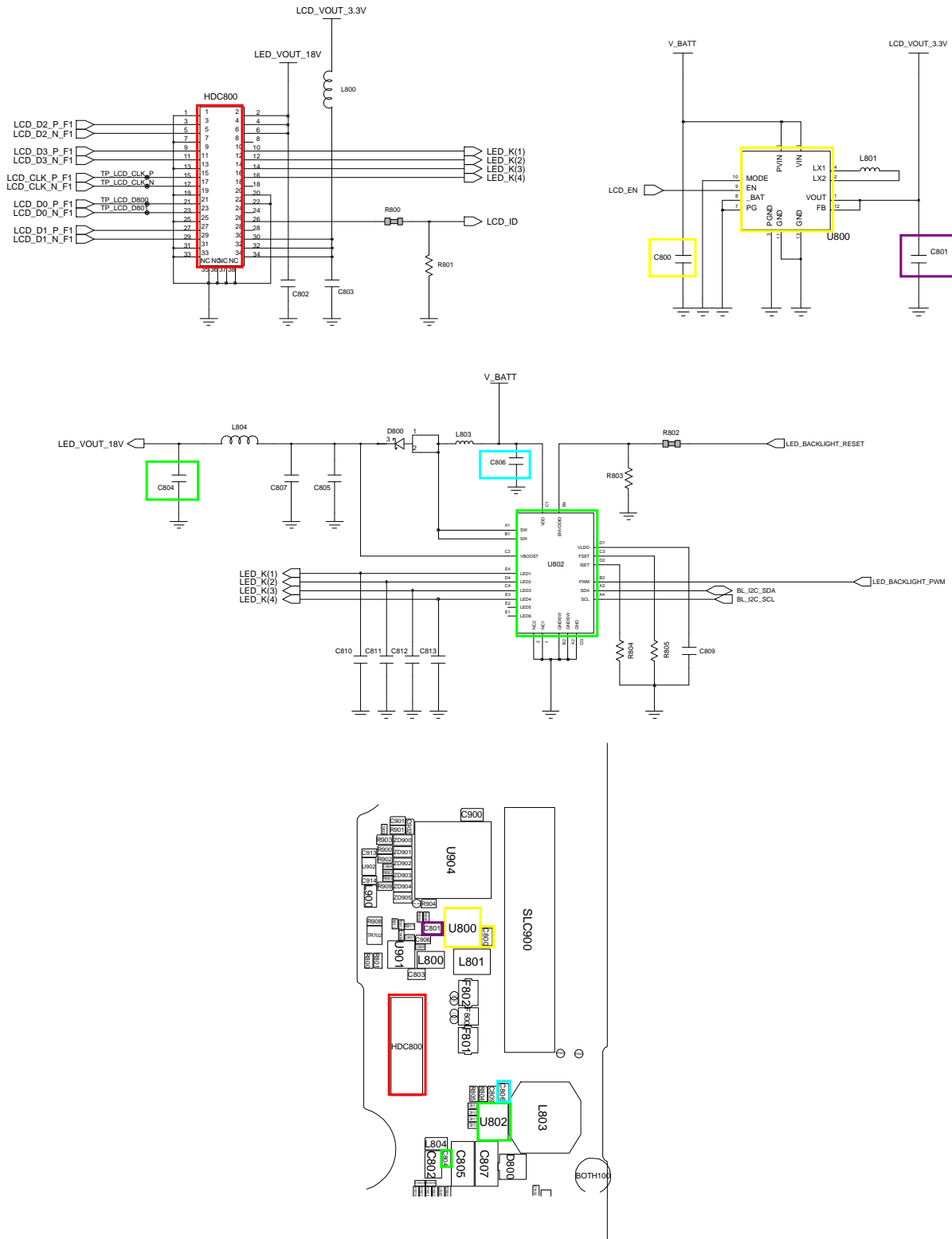




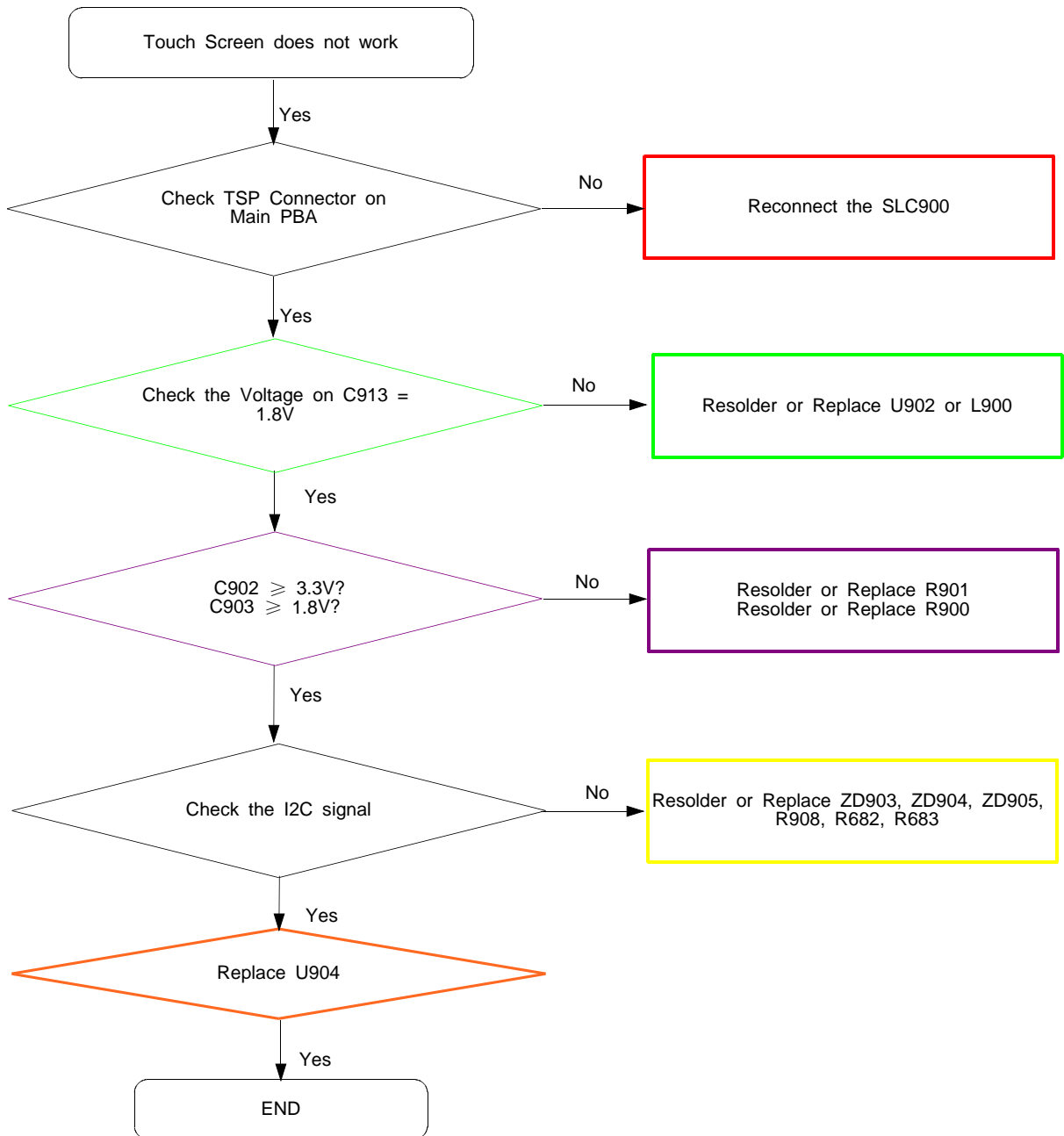
8-3-9. LCD





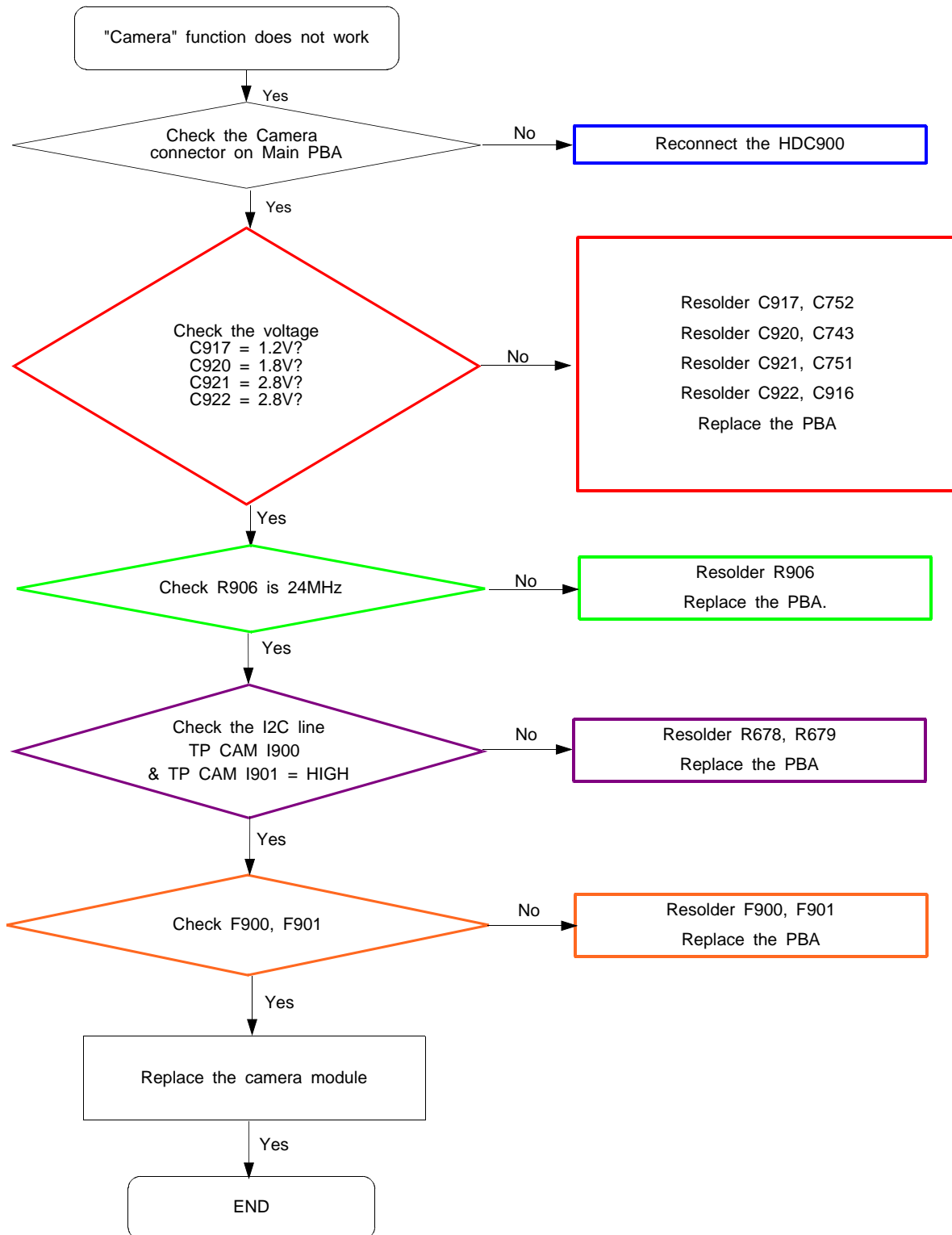


8-3-10. TSP

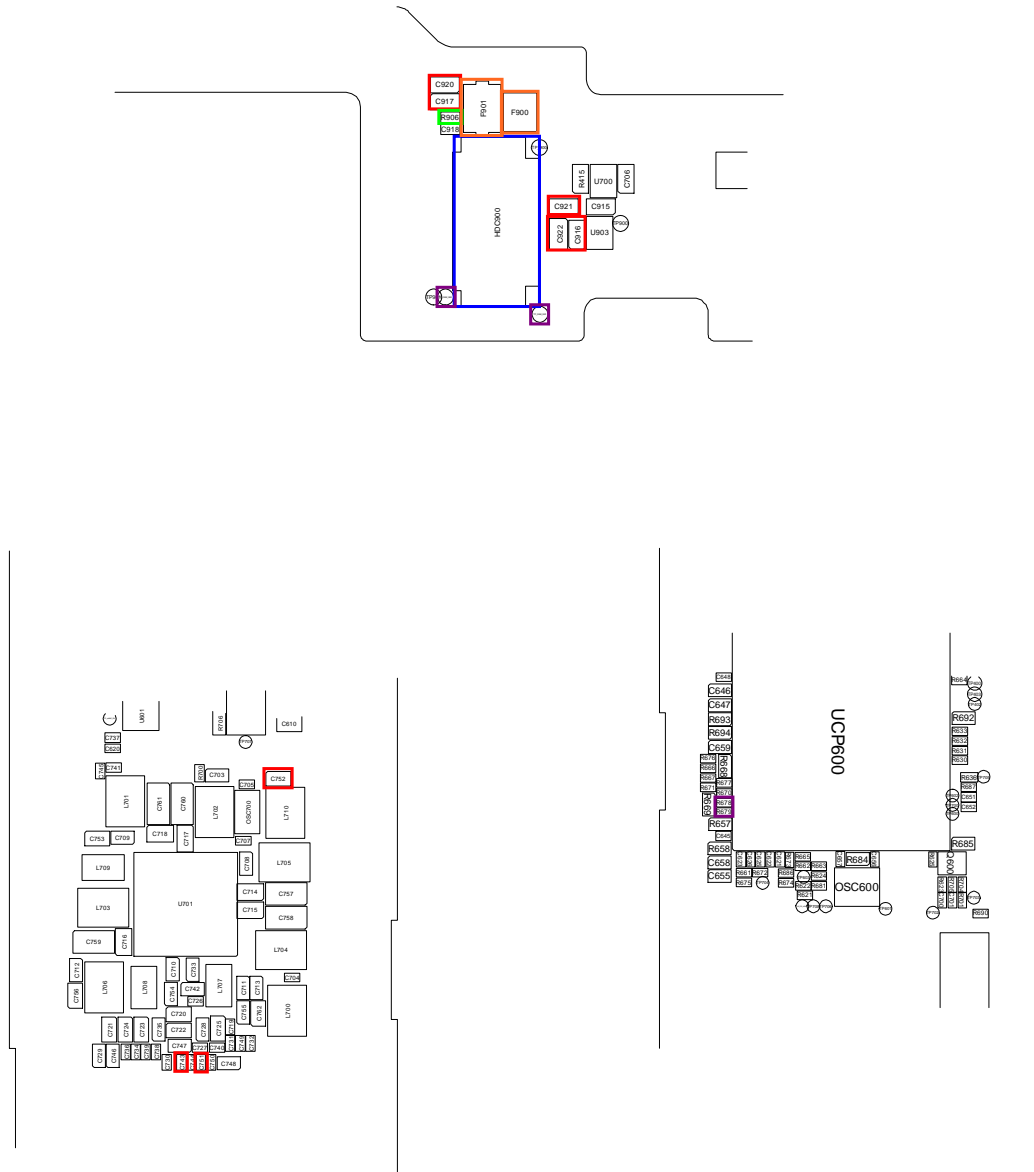




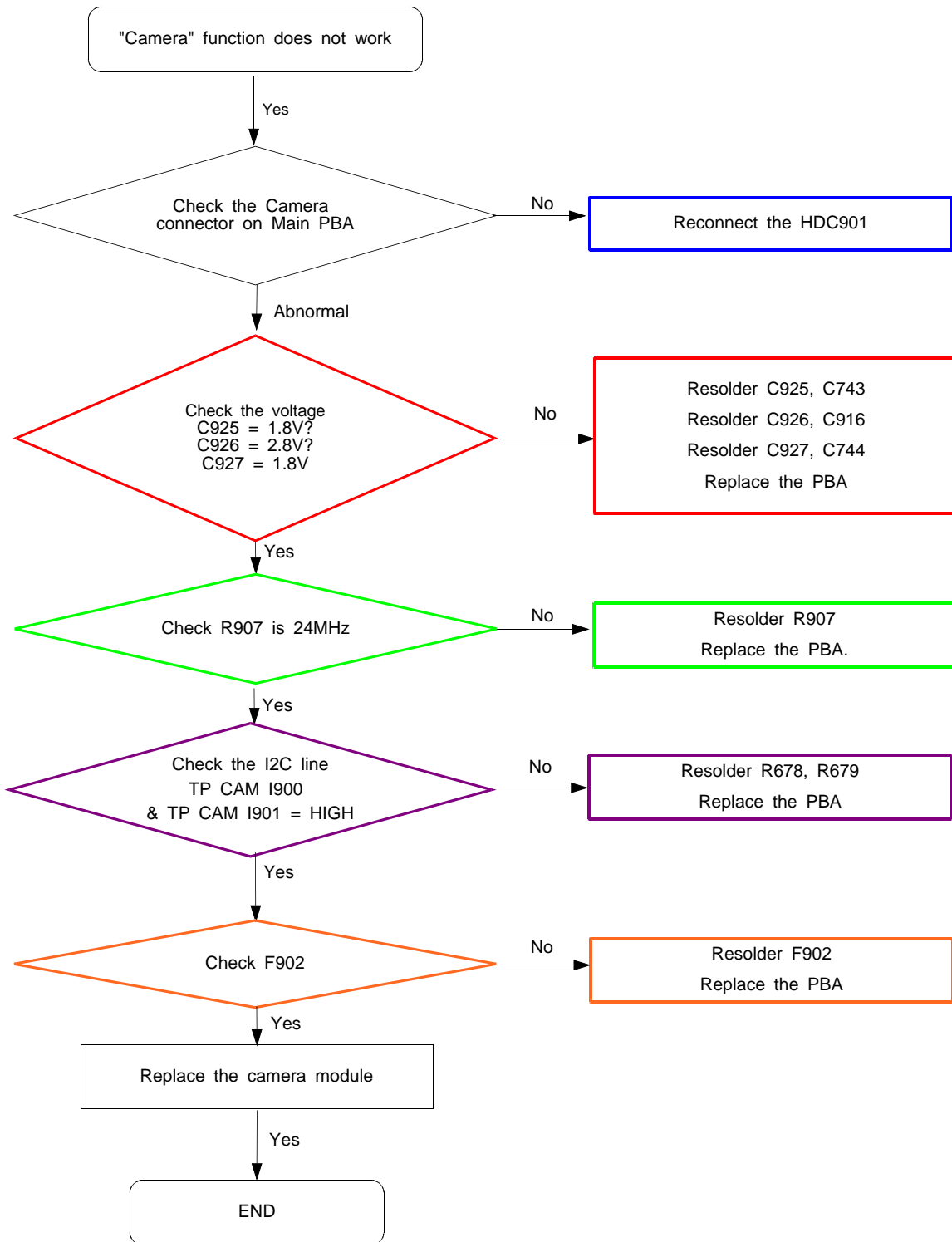
8-3-11. 3M CAM

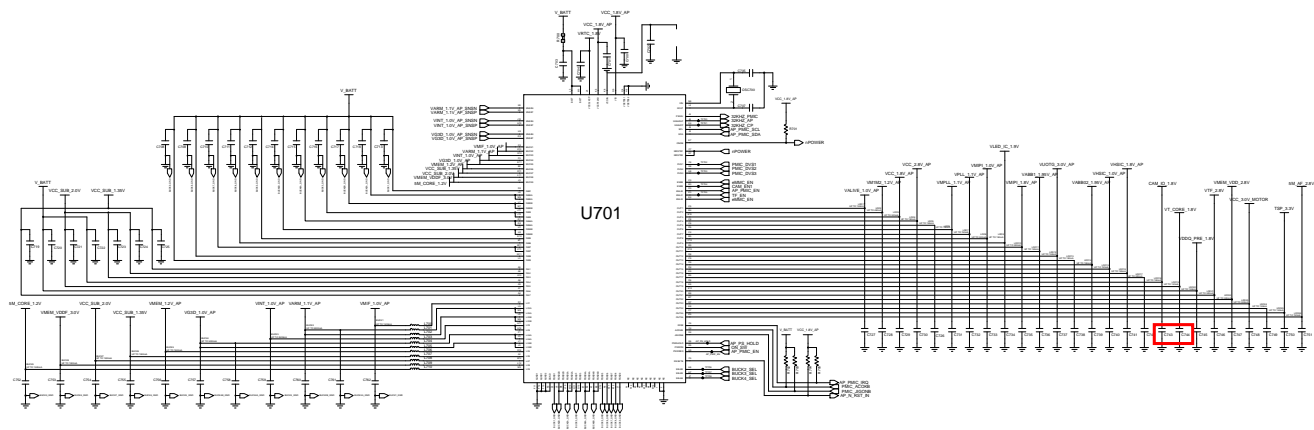
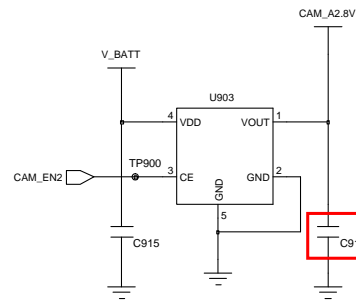
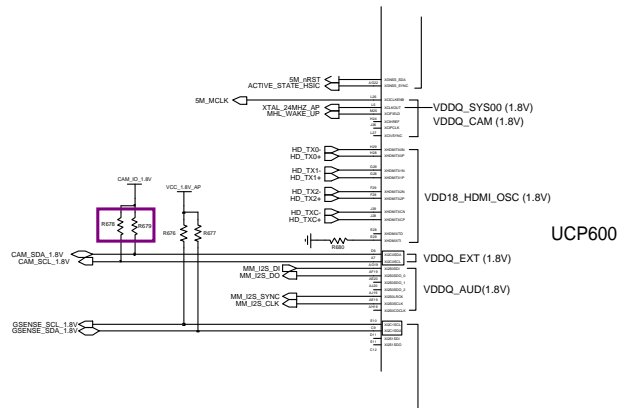
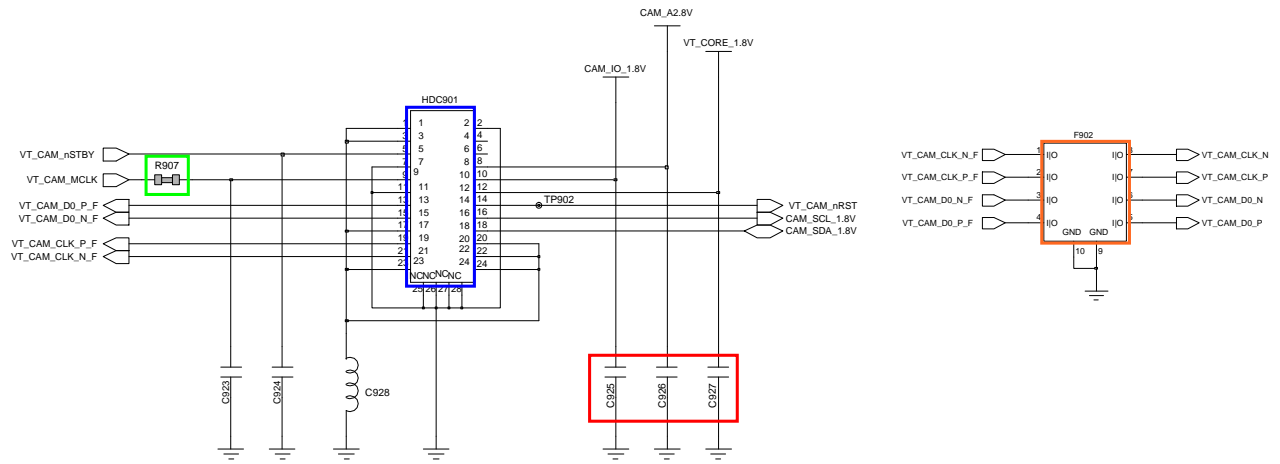




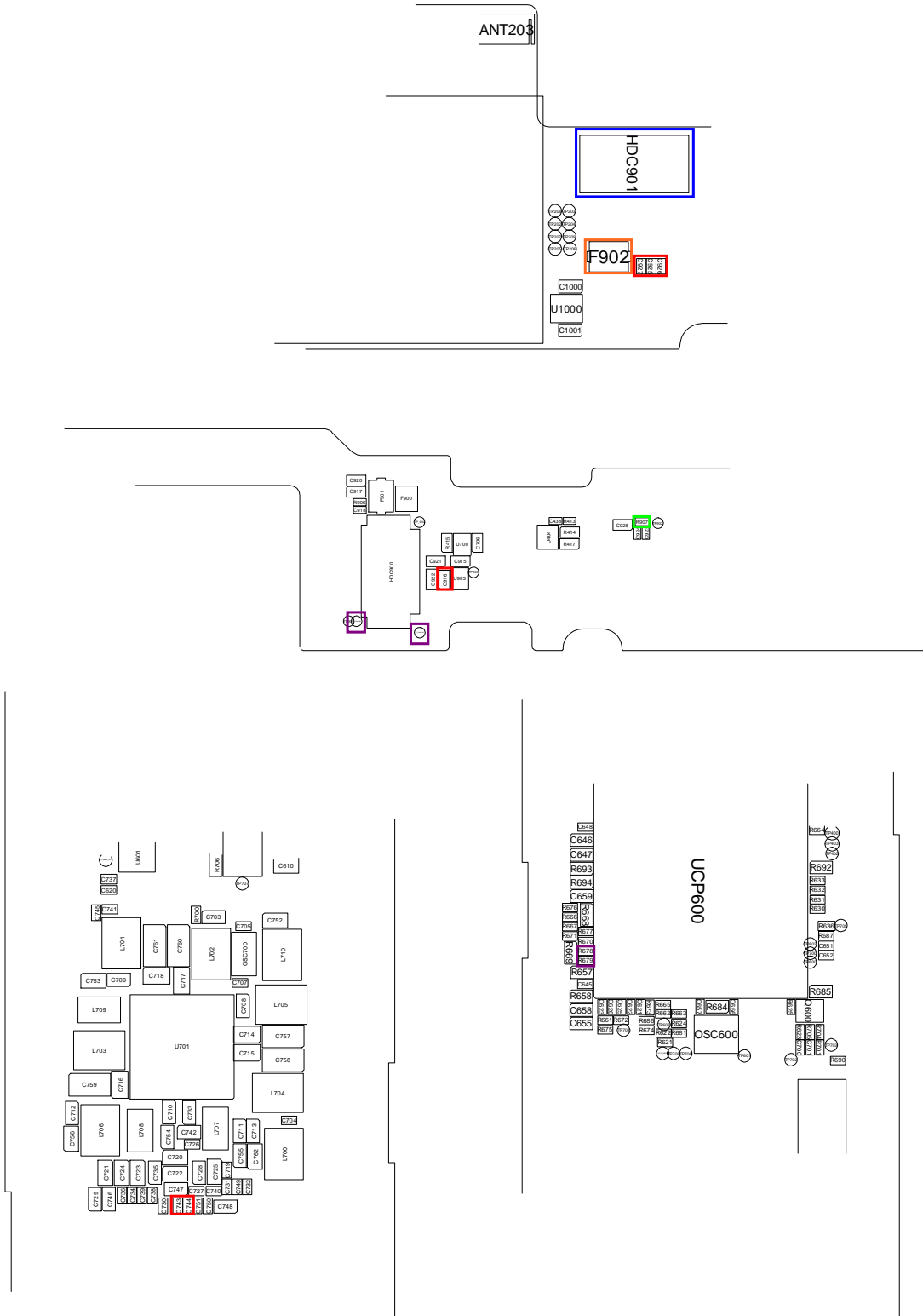


8-3-12. 1.3M CAM

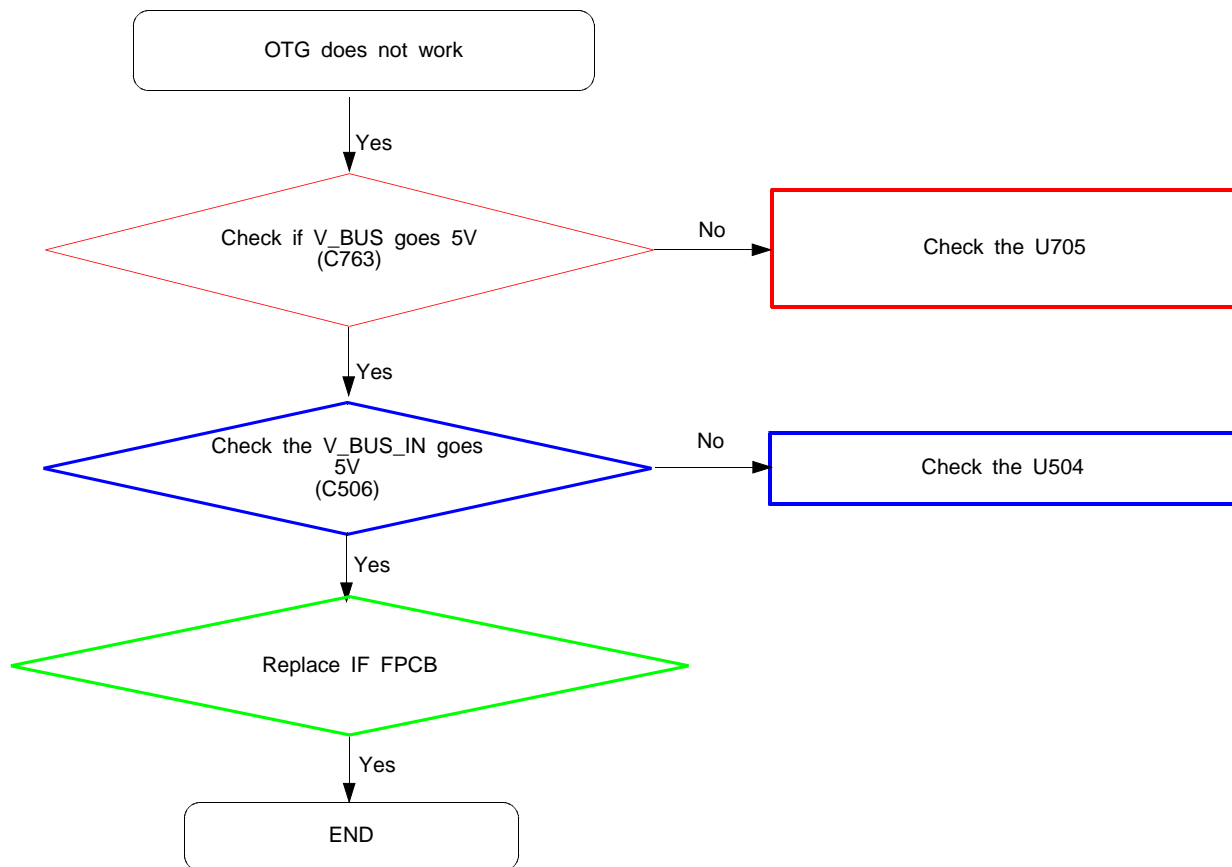


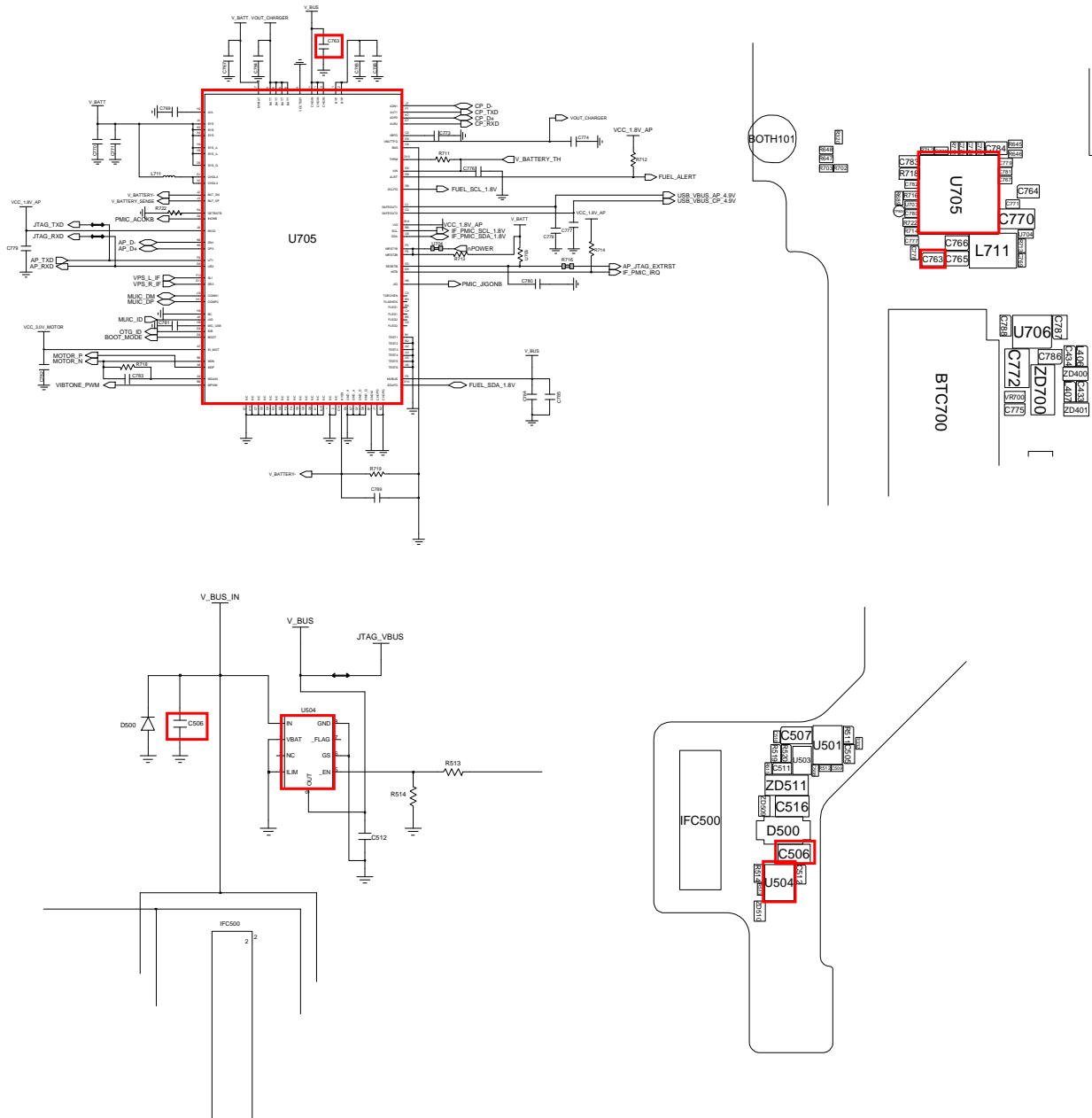




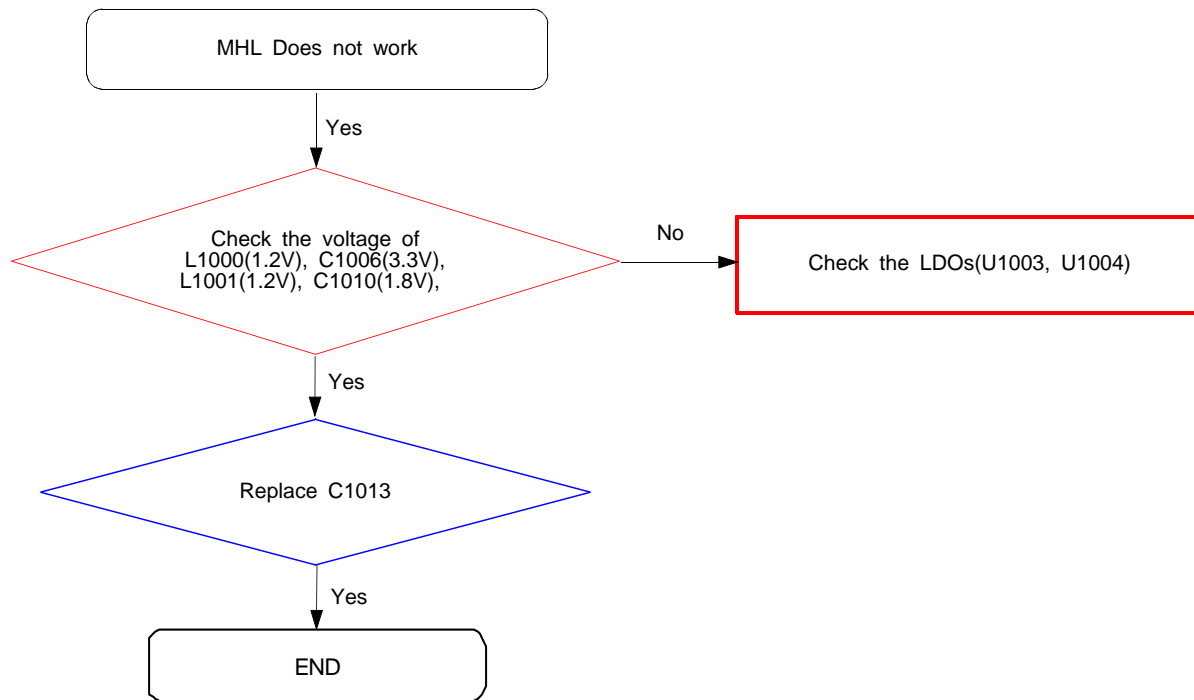


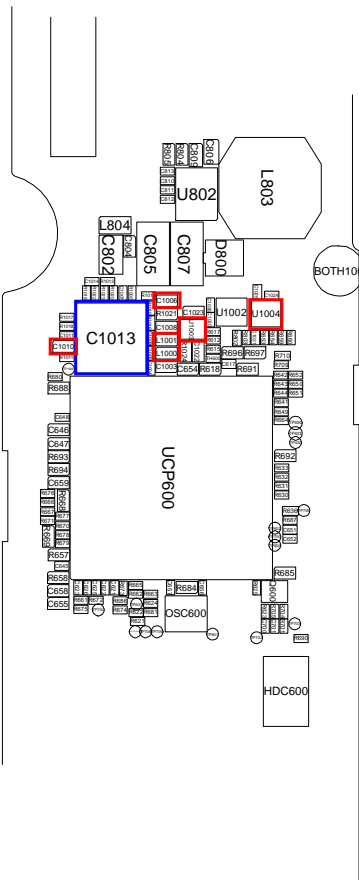
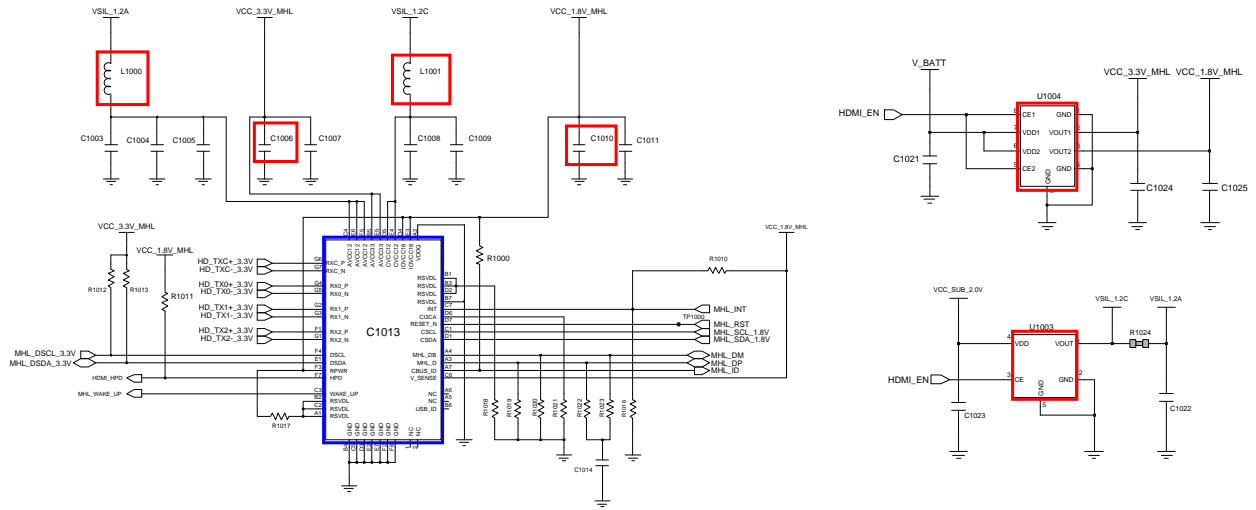
## 8-3-13. OTG



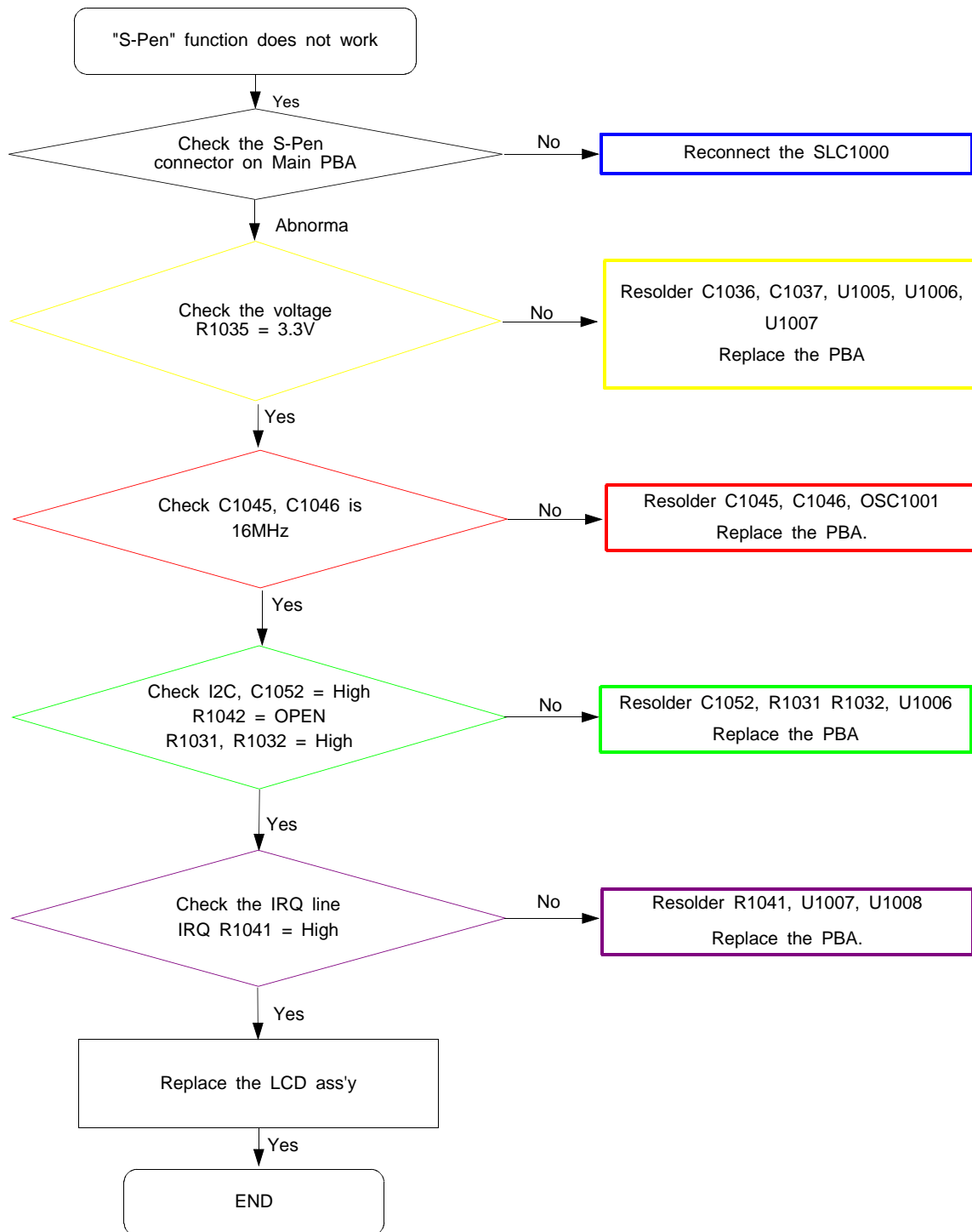


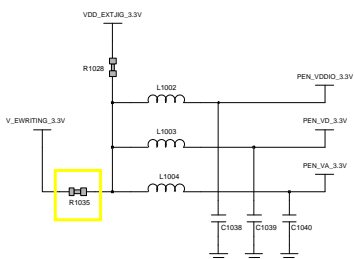
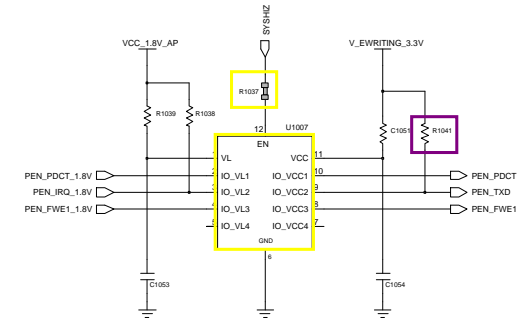
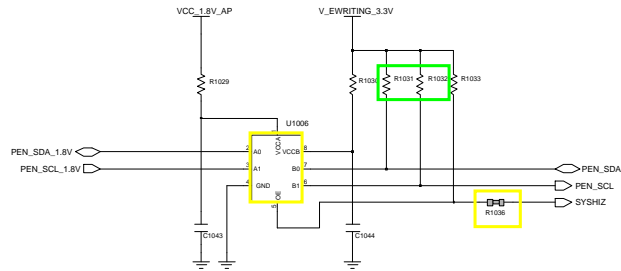
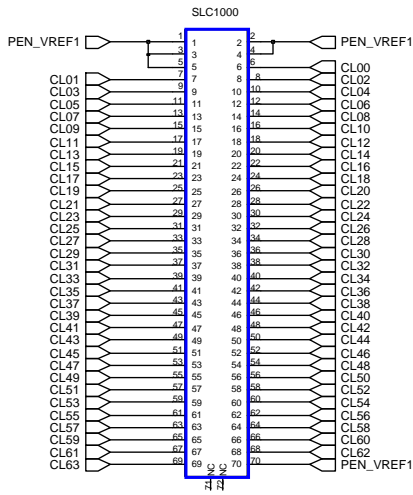
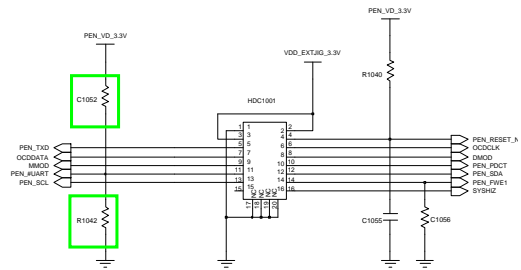
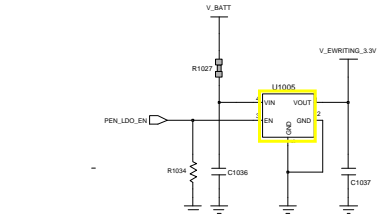
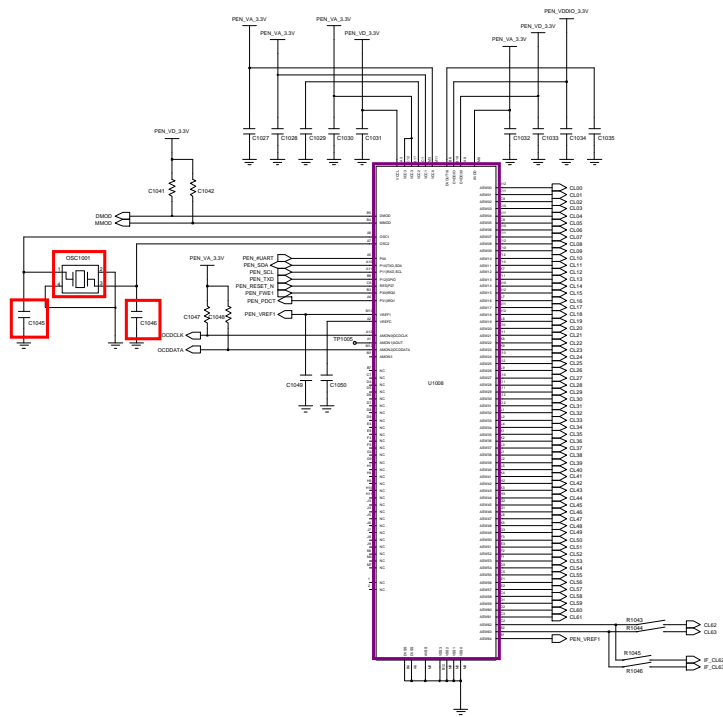
## 8-3-14. MHL

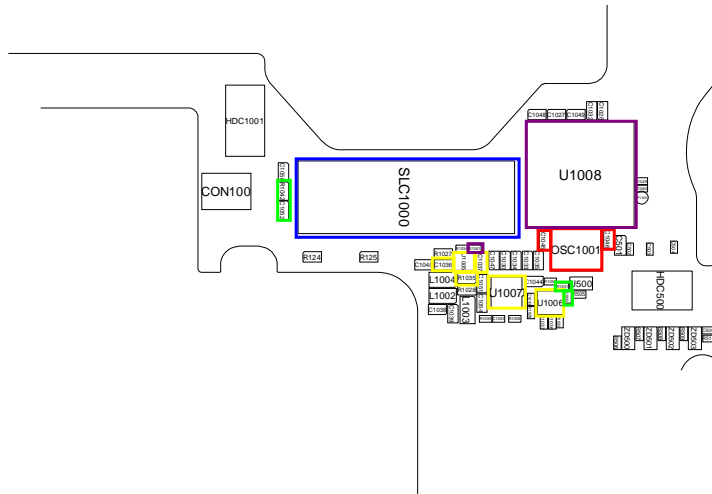




8-3-15. S-pen



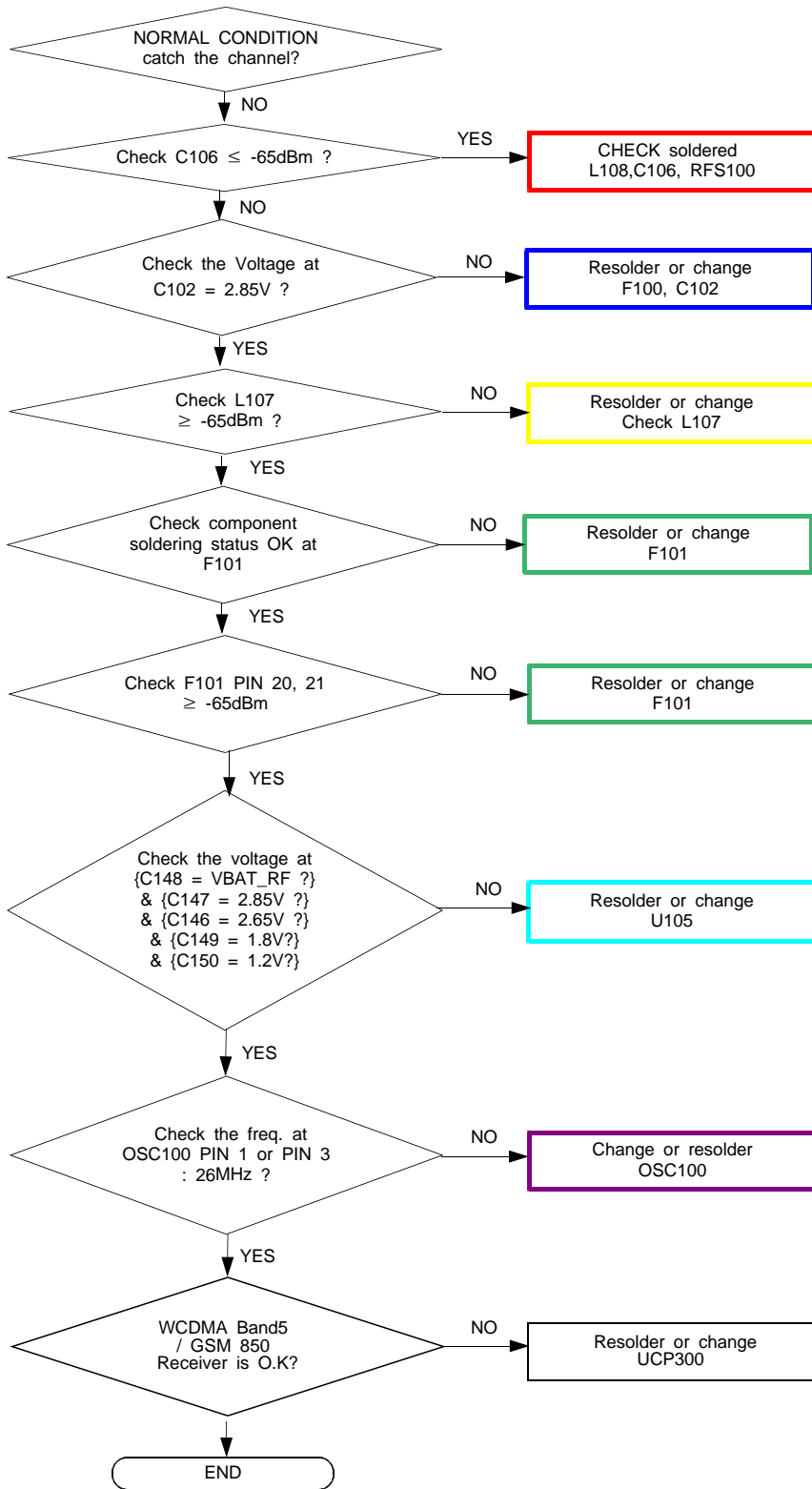


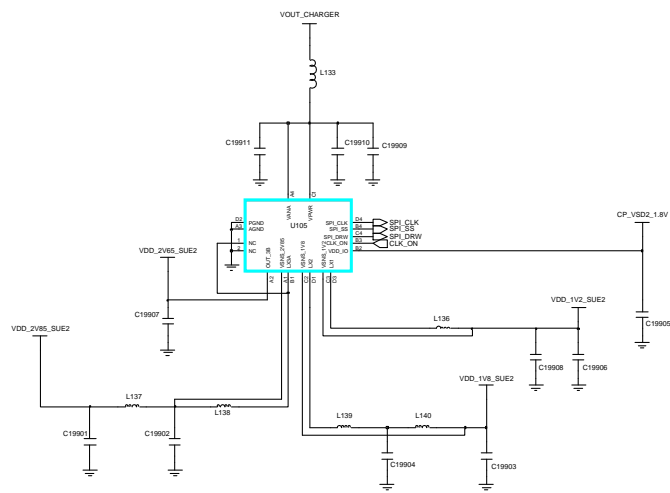
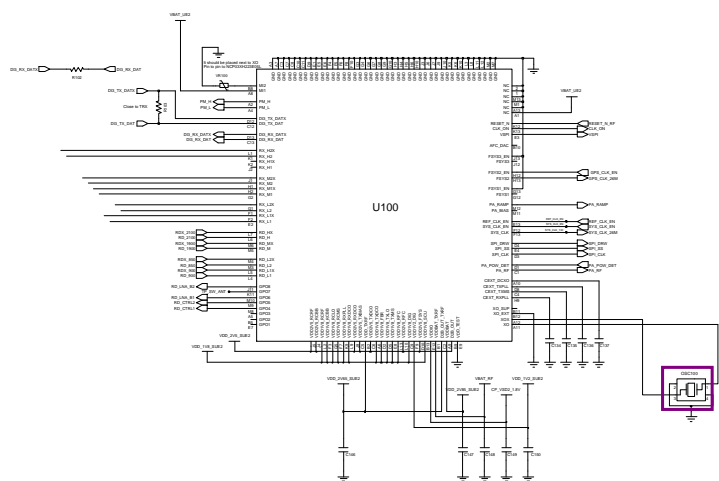
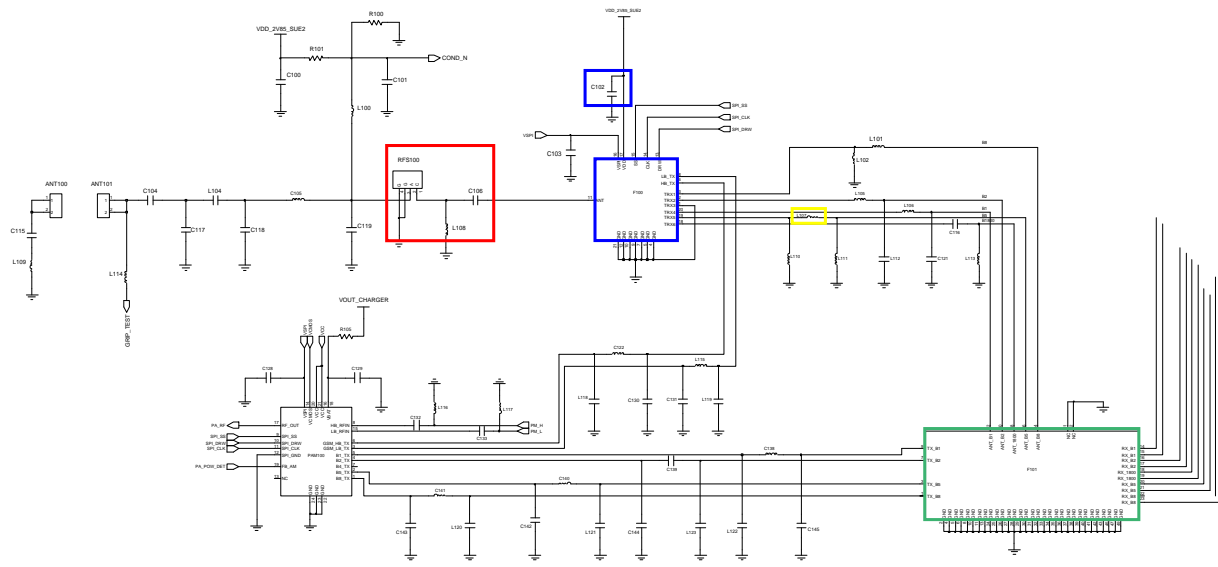


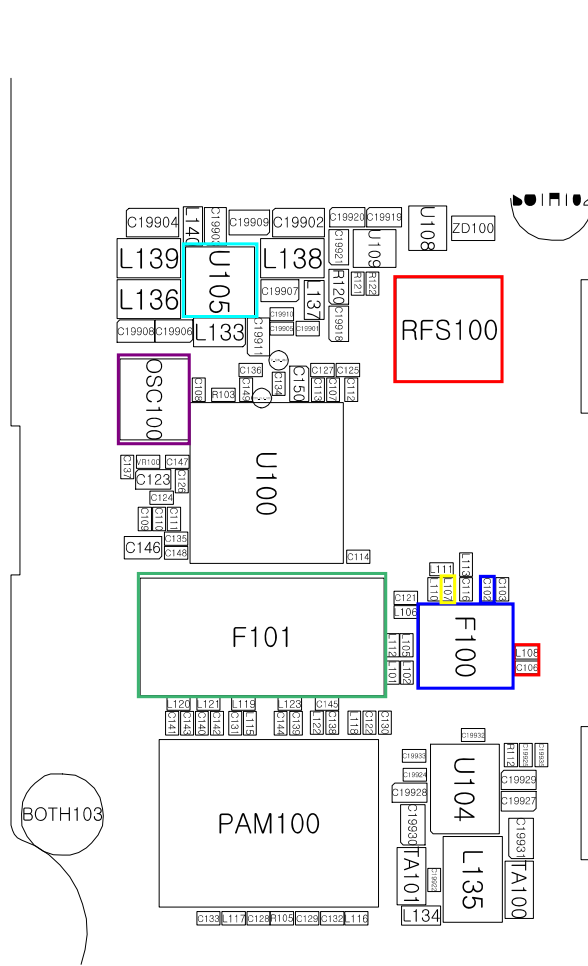


8-3-16. GSM850/ WCDMA Band5 RX

CONTINUO  
 US RX ON  
 RF INPUT : 4408CH  
 AMP : -50dBm

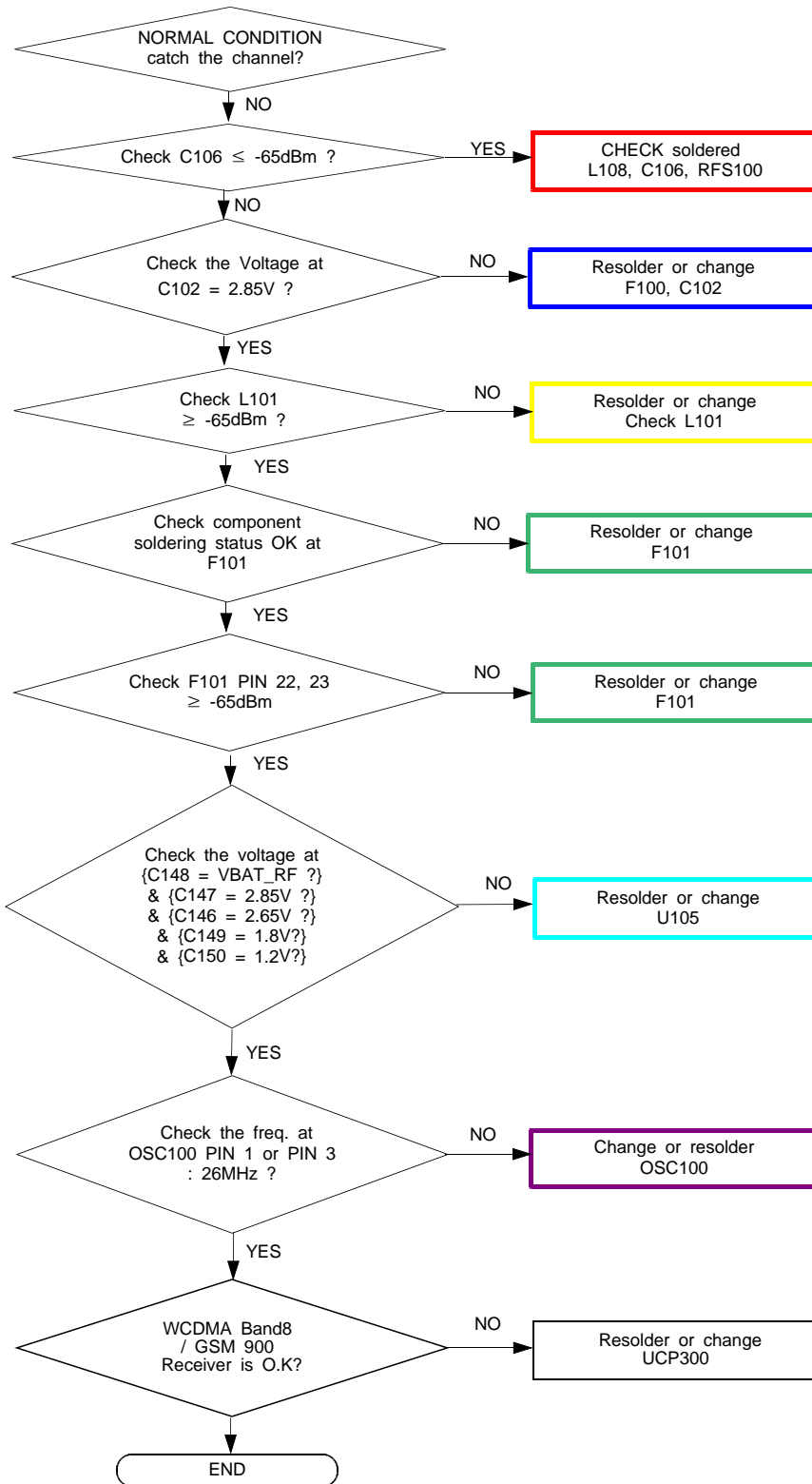


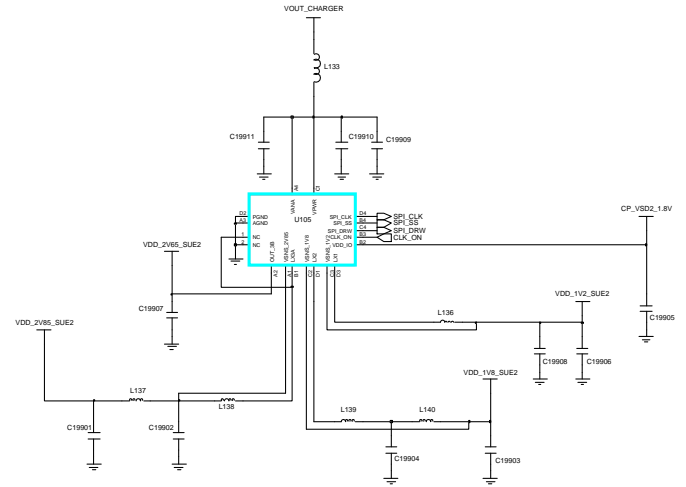
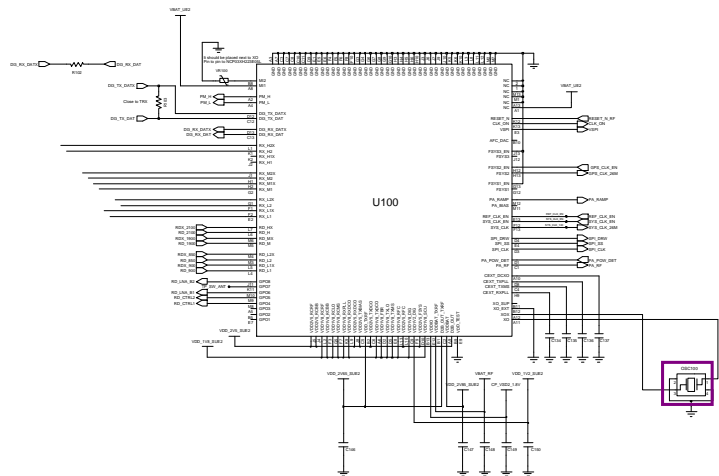
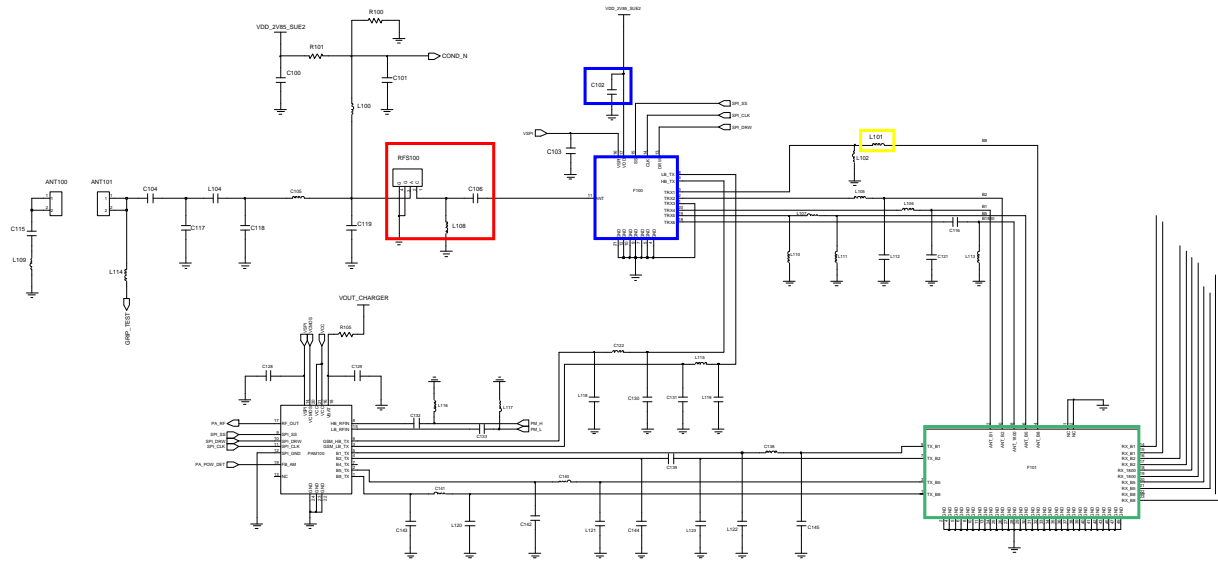




8-3-17. GSM900/ WCDMA Band8 RX

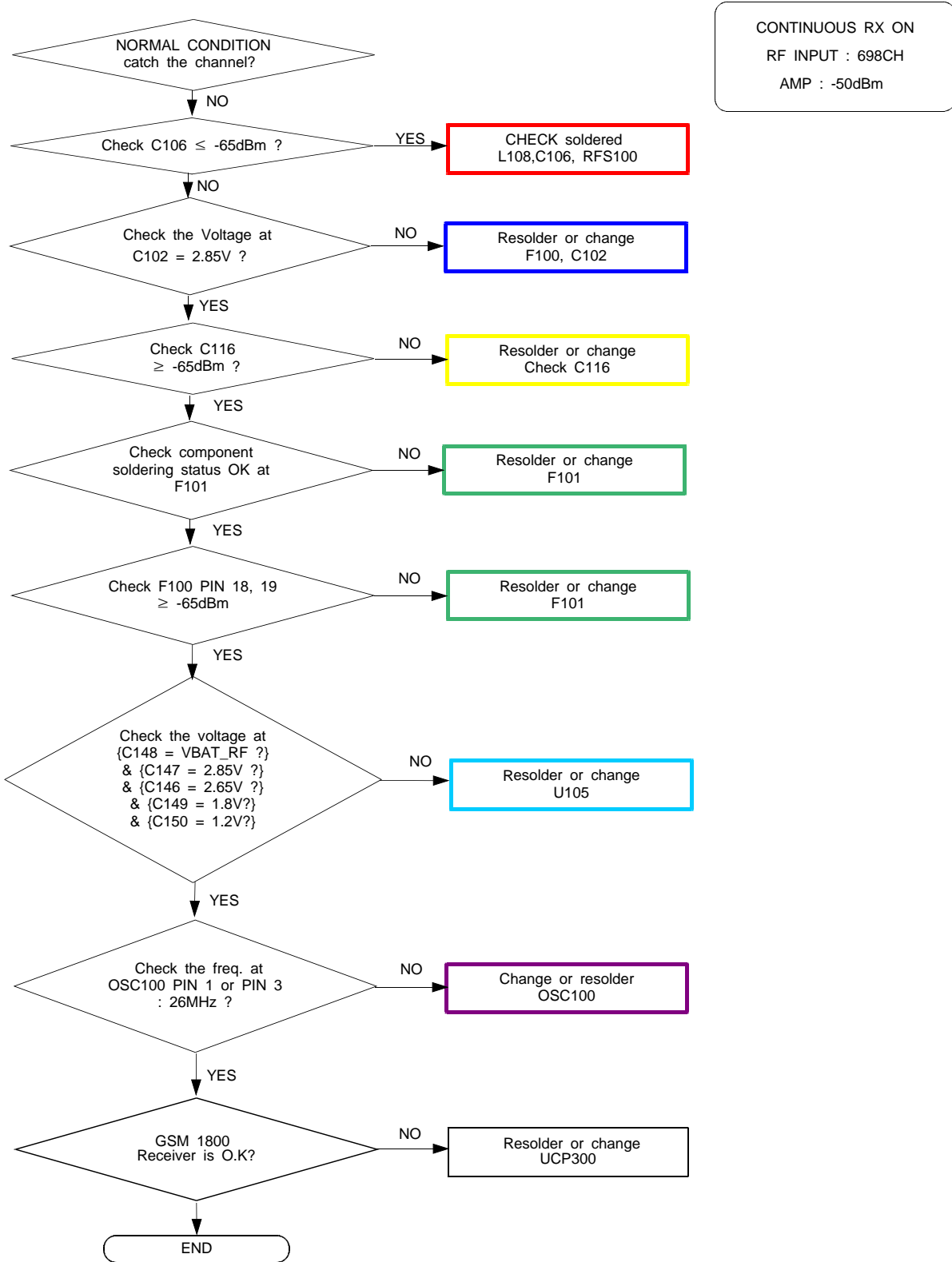
CONTINUOUS RX ON  
RF INPUT : 3013CH  
AMP : -50dBm

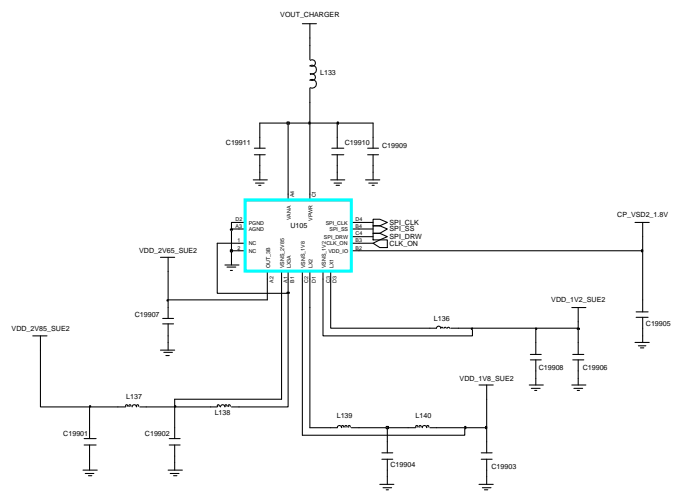
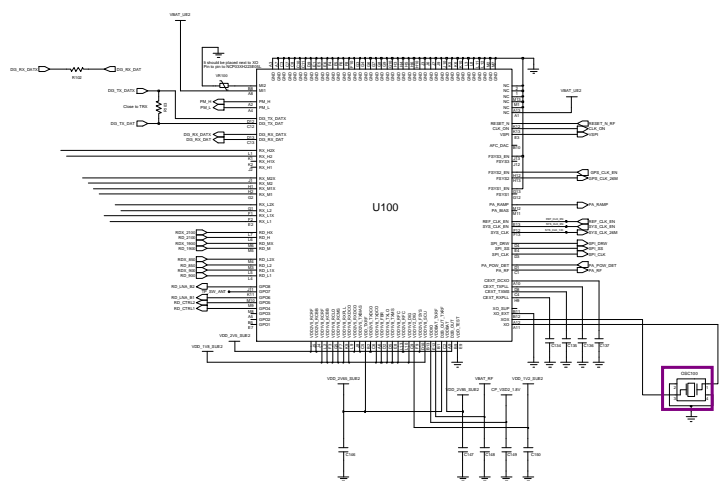
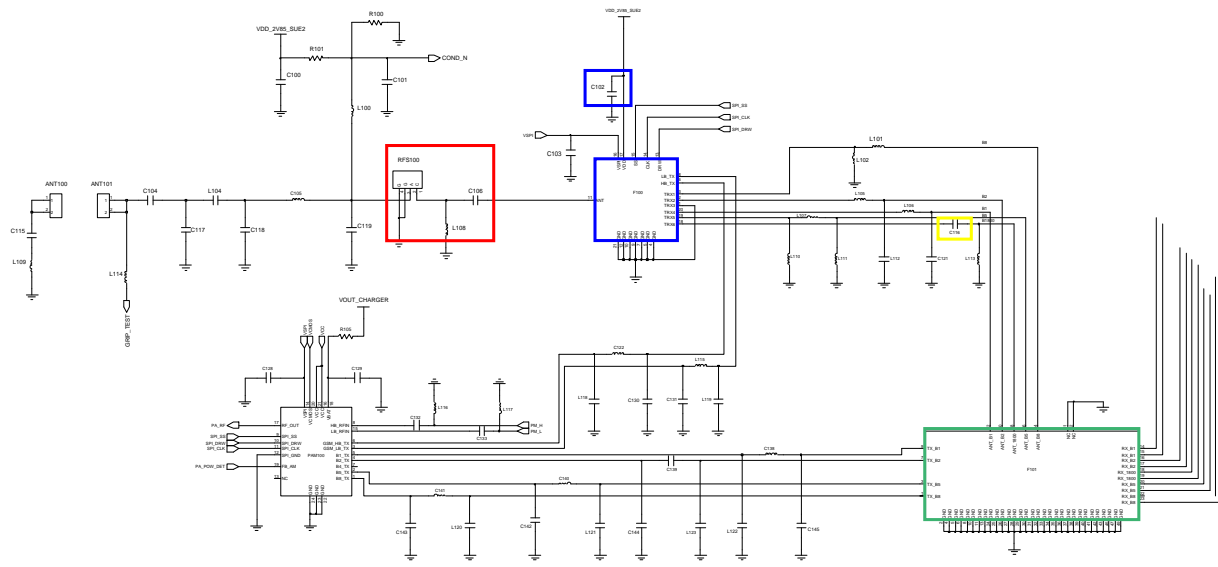






8-3-18. GSM1800 RX

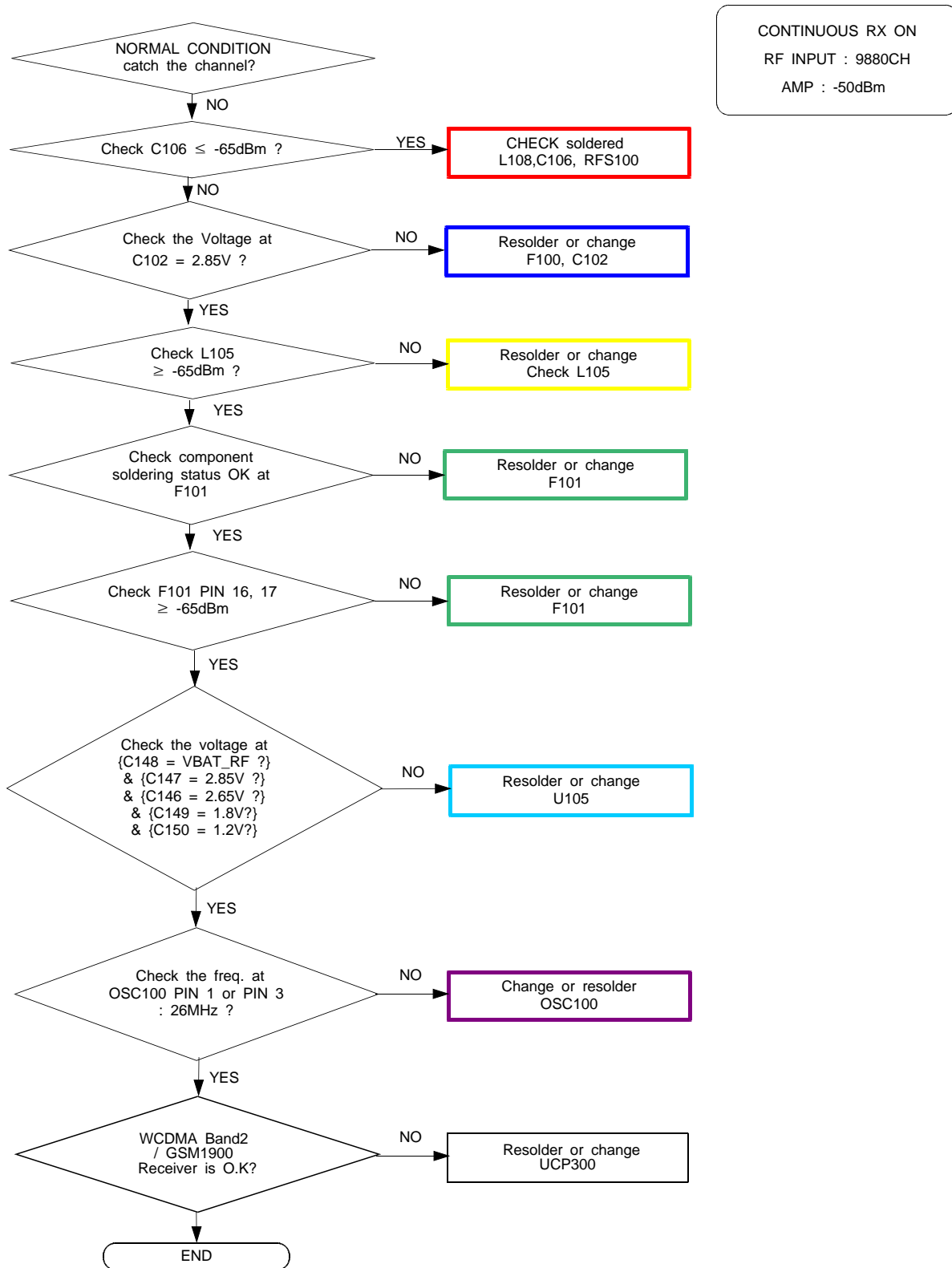


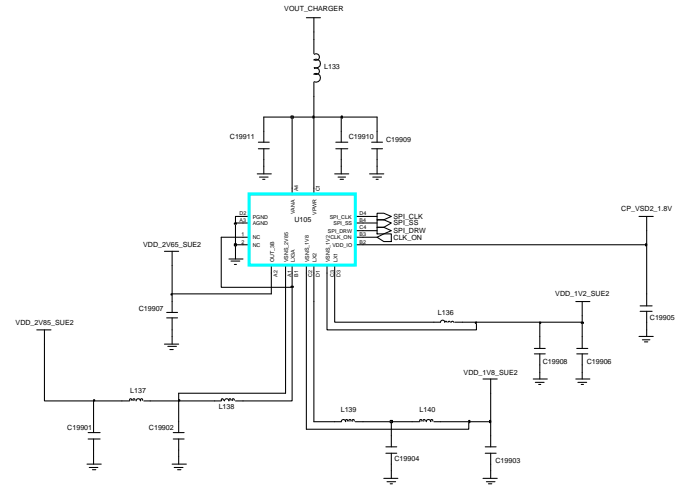
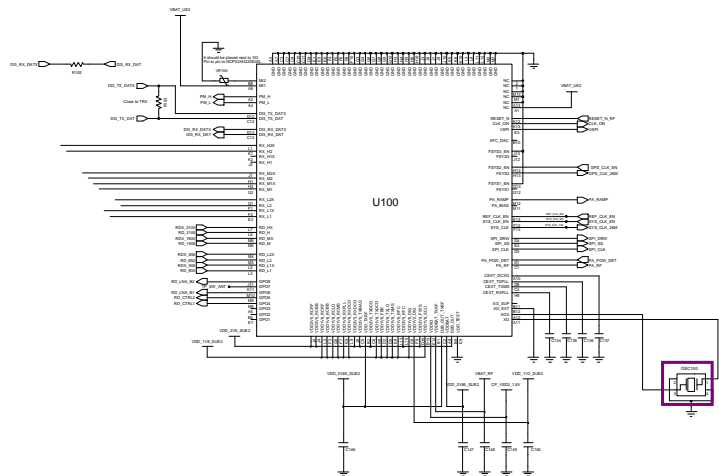
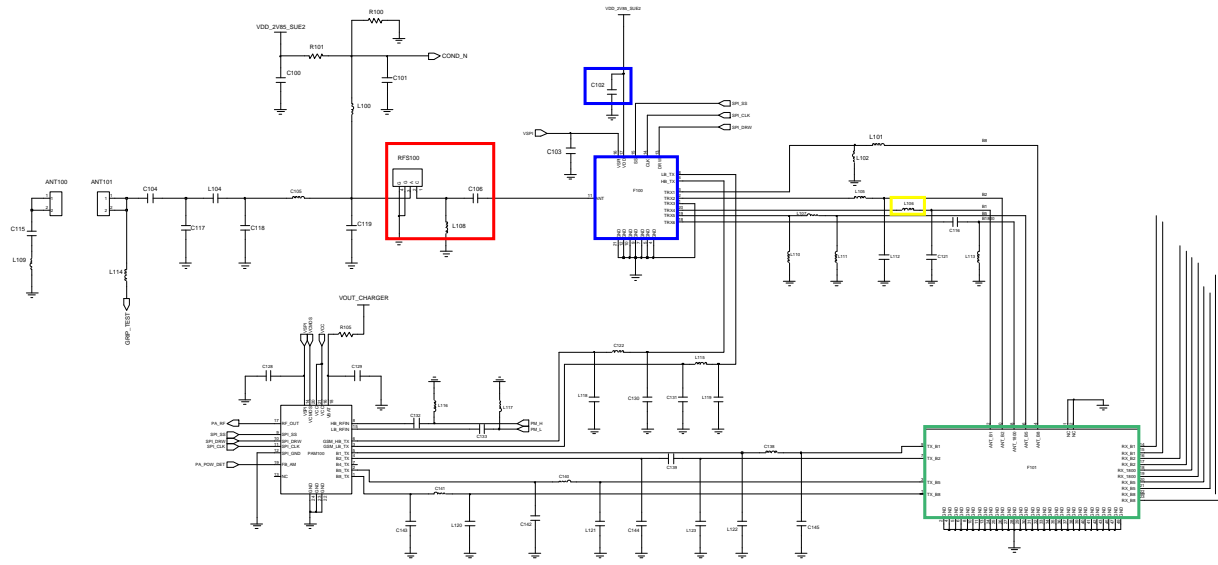


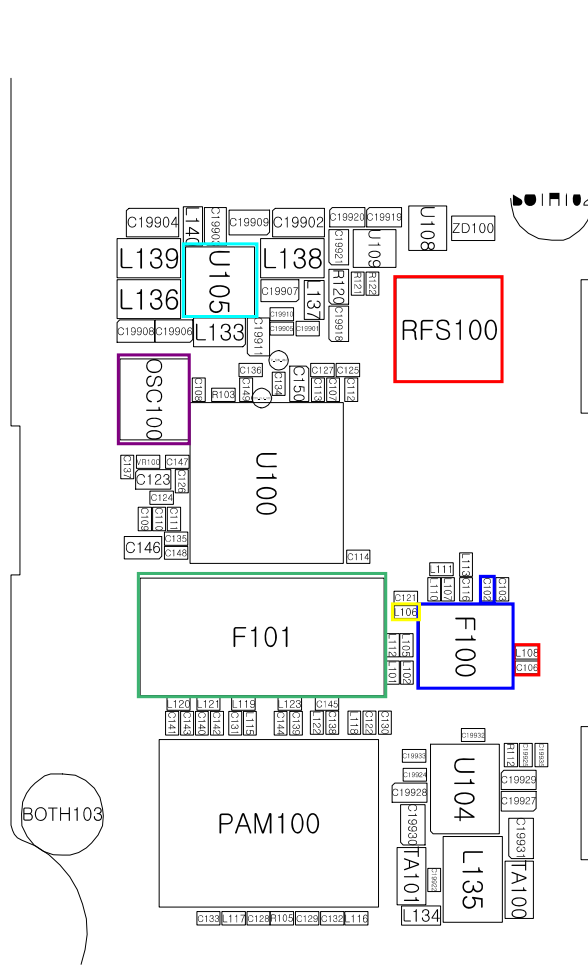




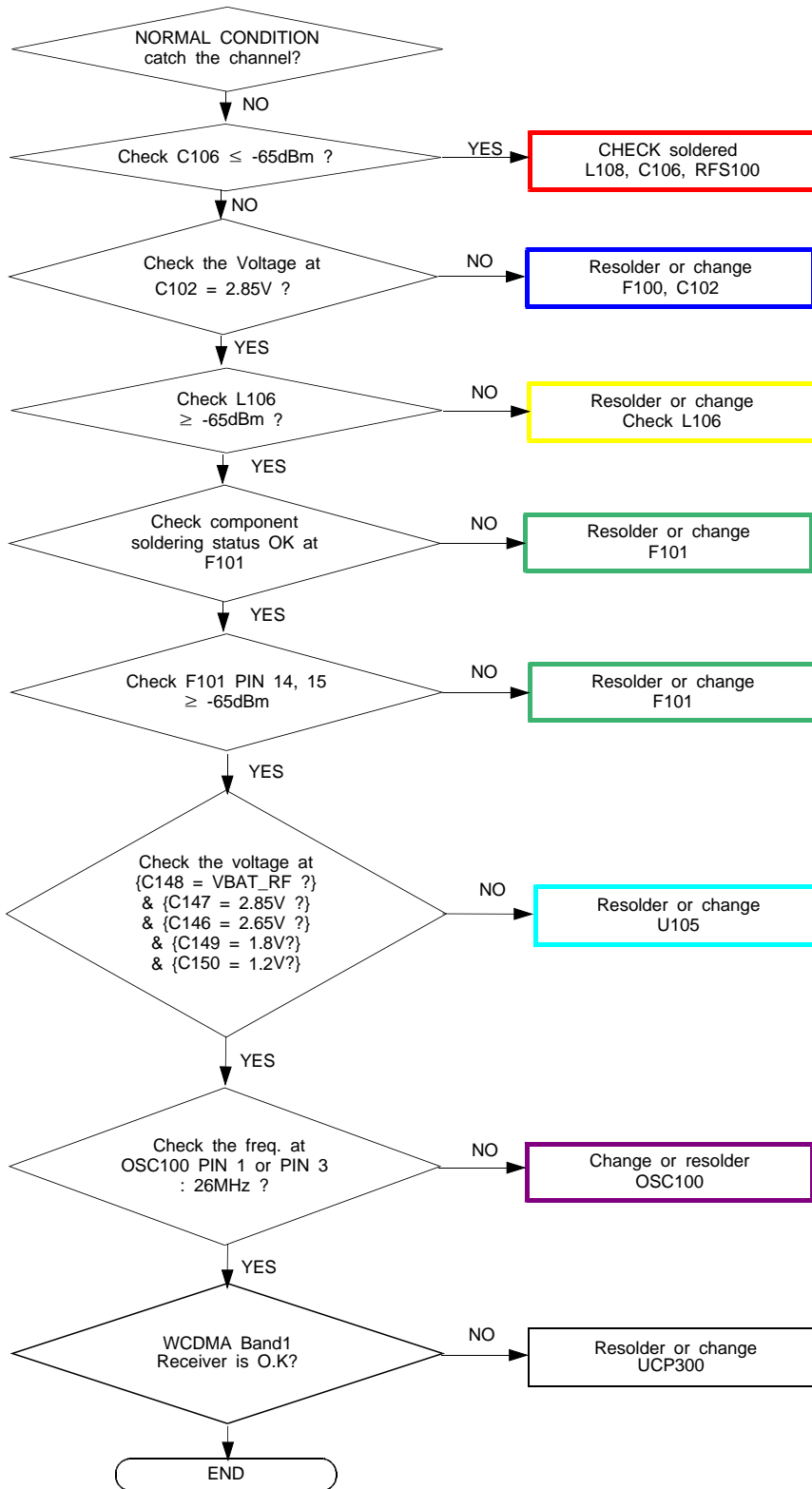
8-3-19. GSM1900/ WCDMA Band2 RX



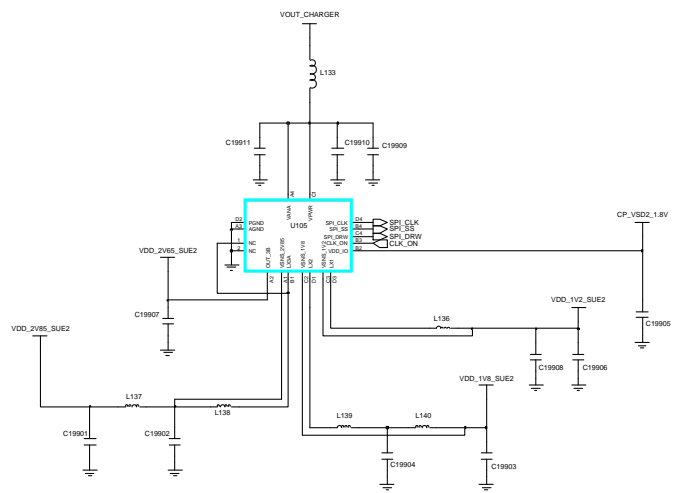
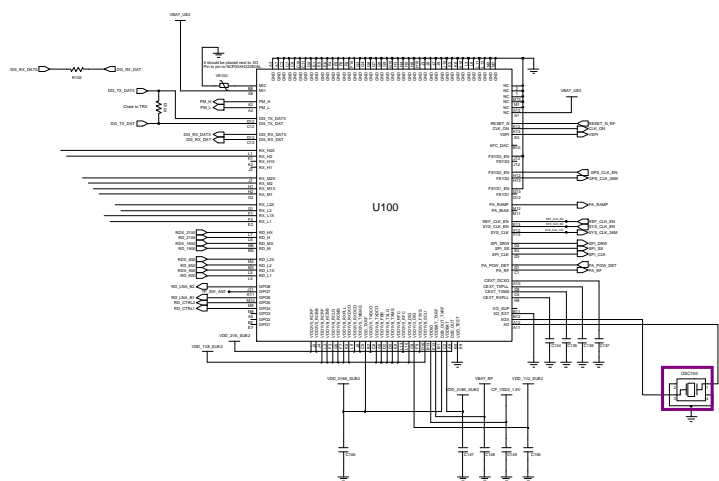
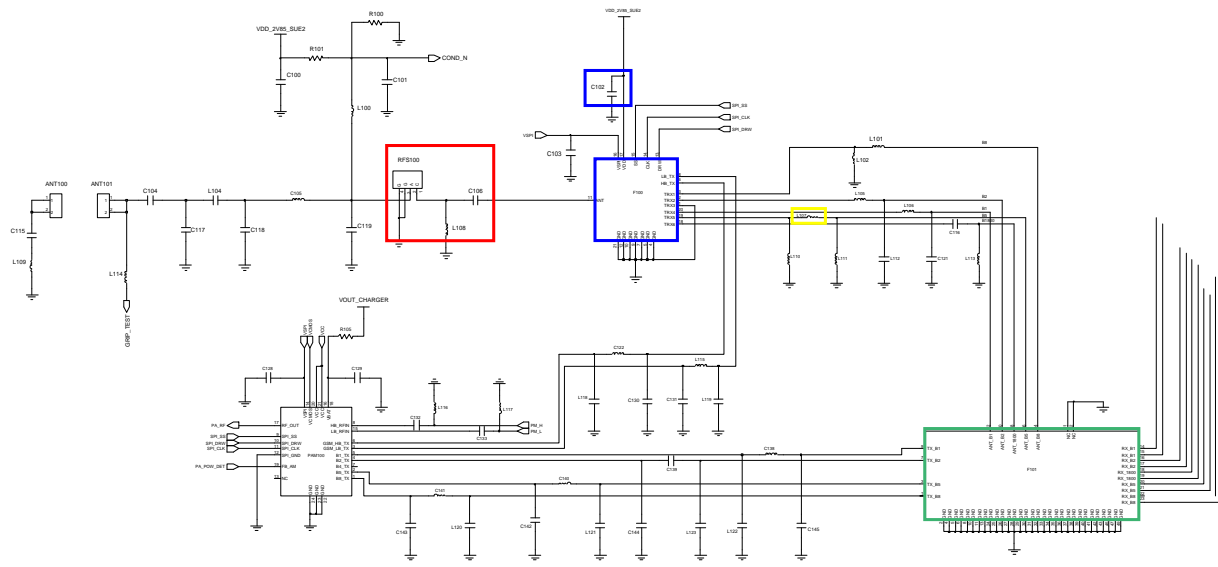


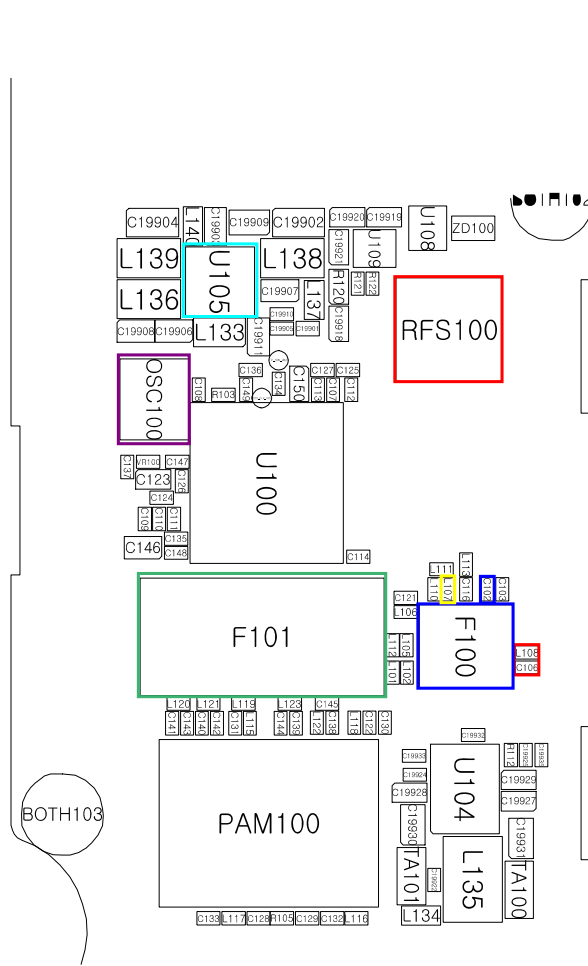


8-3-20. WCDMA Band1 RX



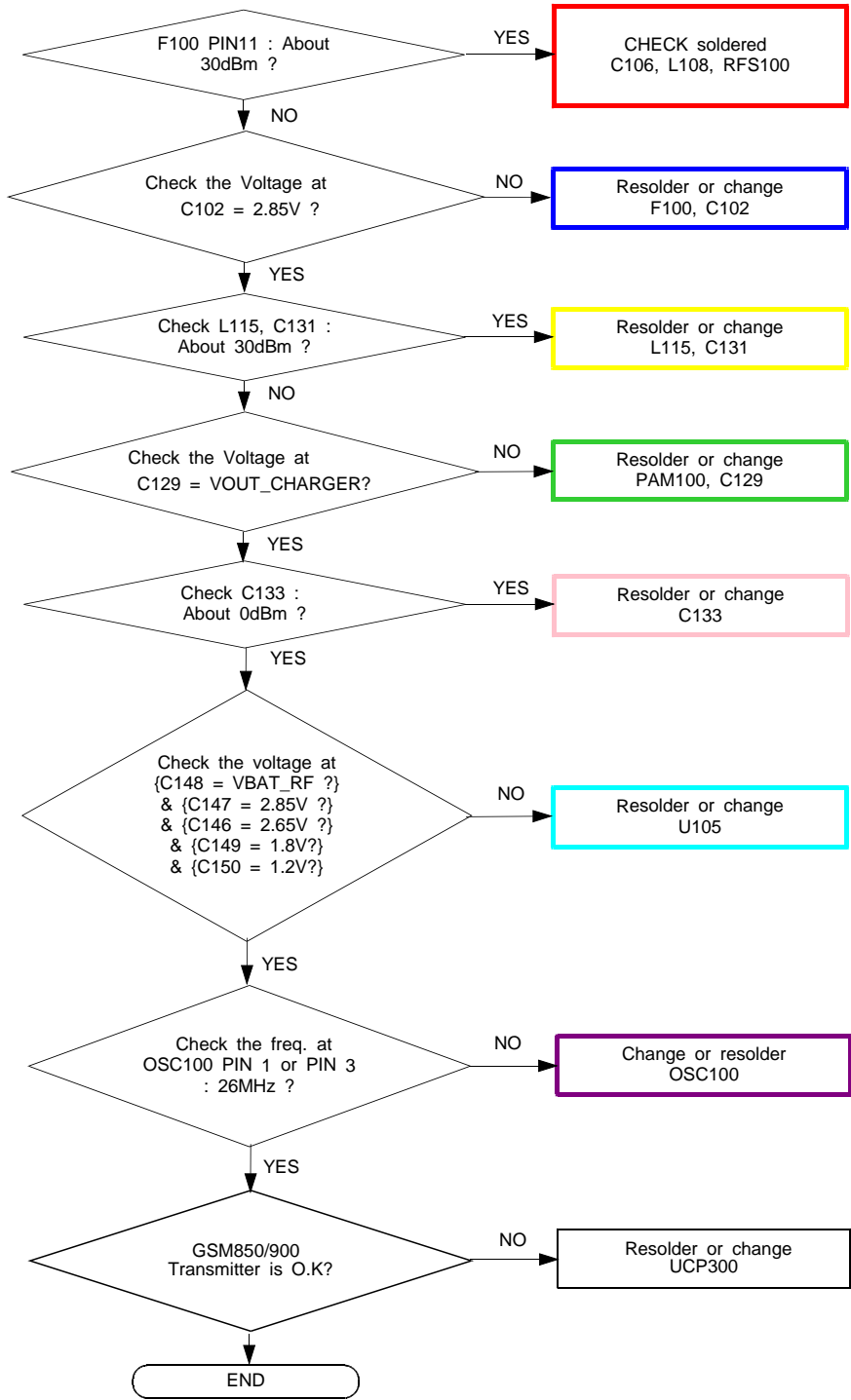
CONTINUOUS RX ON  
RF INPUT : 10700CH  
AMP : -50dBm



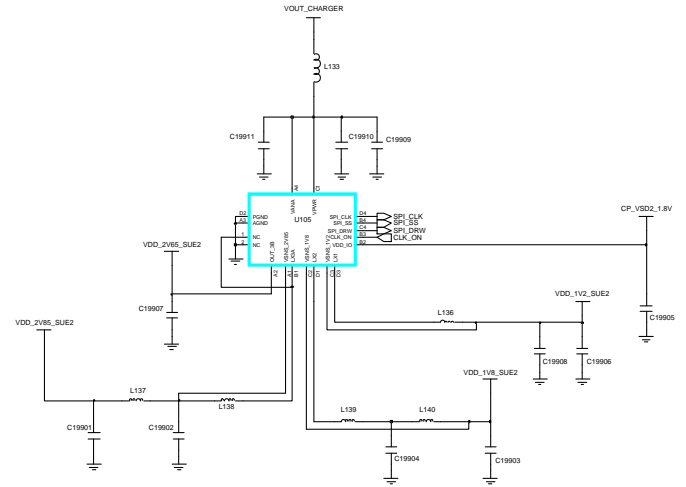
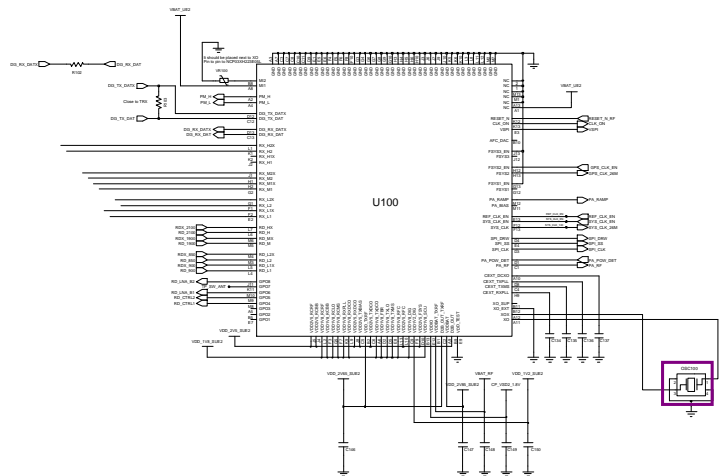
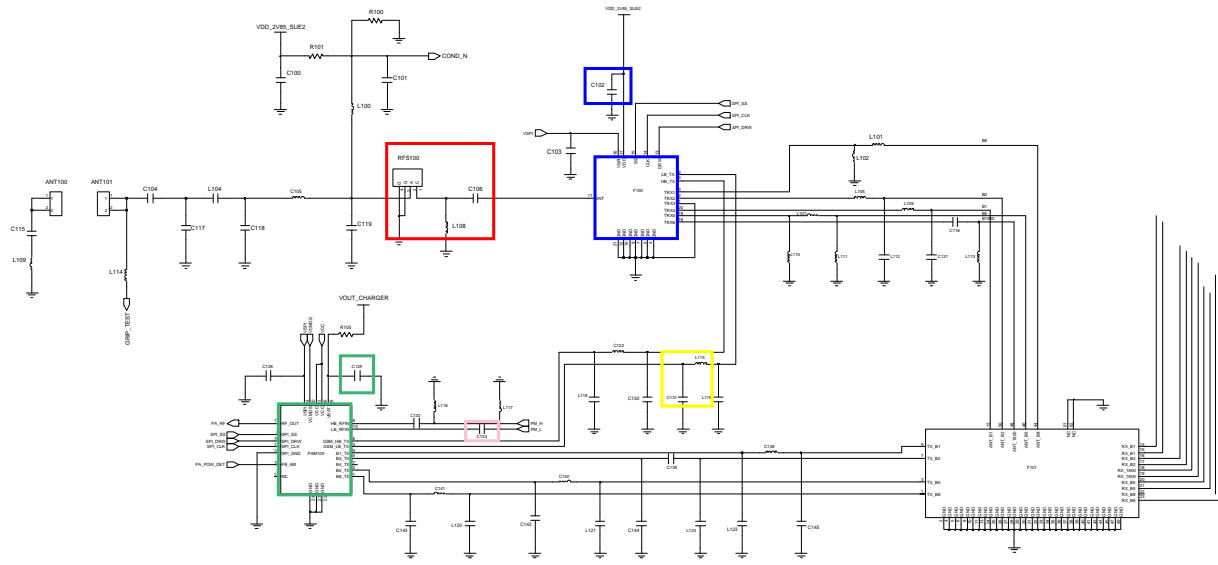


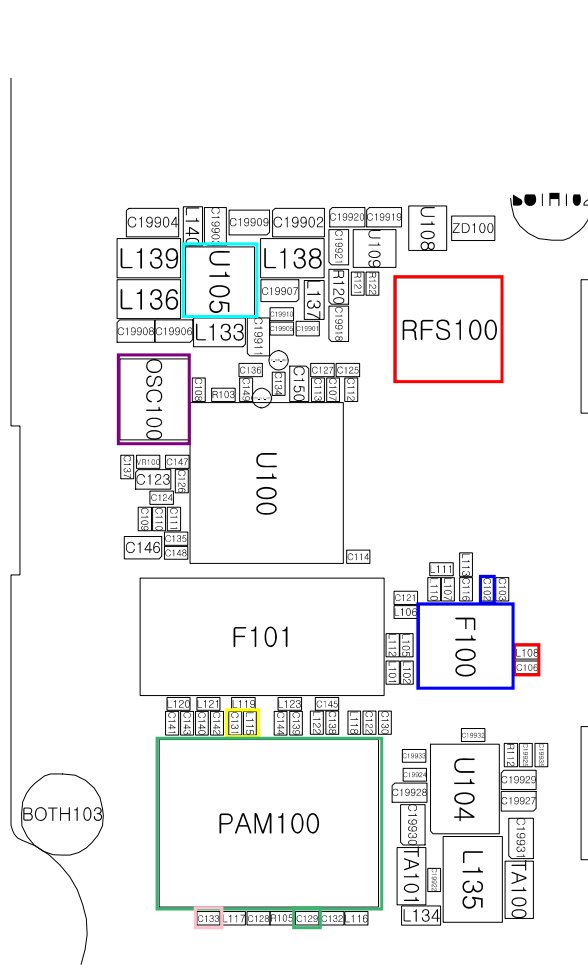
8-3-21. GSM850/ GSM900 TX

CONTINUOUS TX ON CONDITION  
 TX POWER DAC:14500 CODE  
 APPLIED  
 GSM850 CH : 190  
 GSM900 CH : 62  
 RBW : 100KHz  
 VBW : 100KHz  
 SPAN : 10MHz  
 REF LEV. : 10dBm  
 ATT. : 20dB



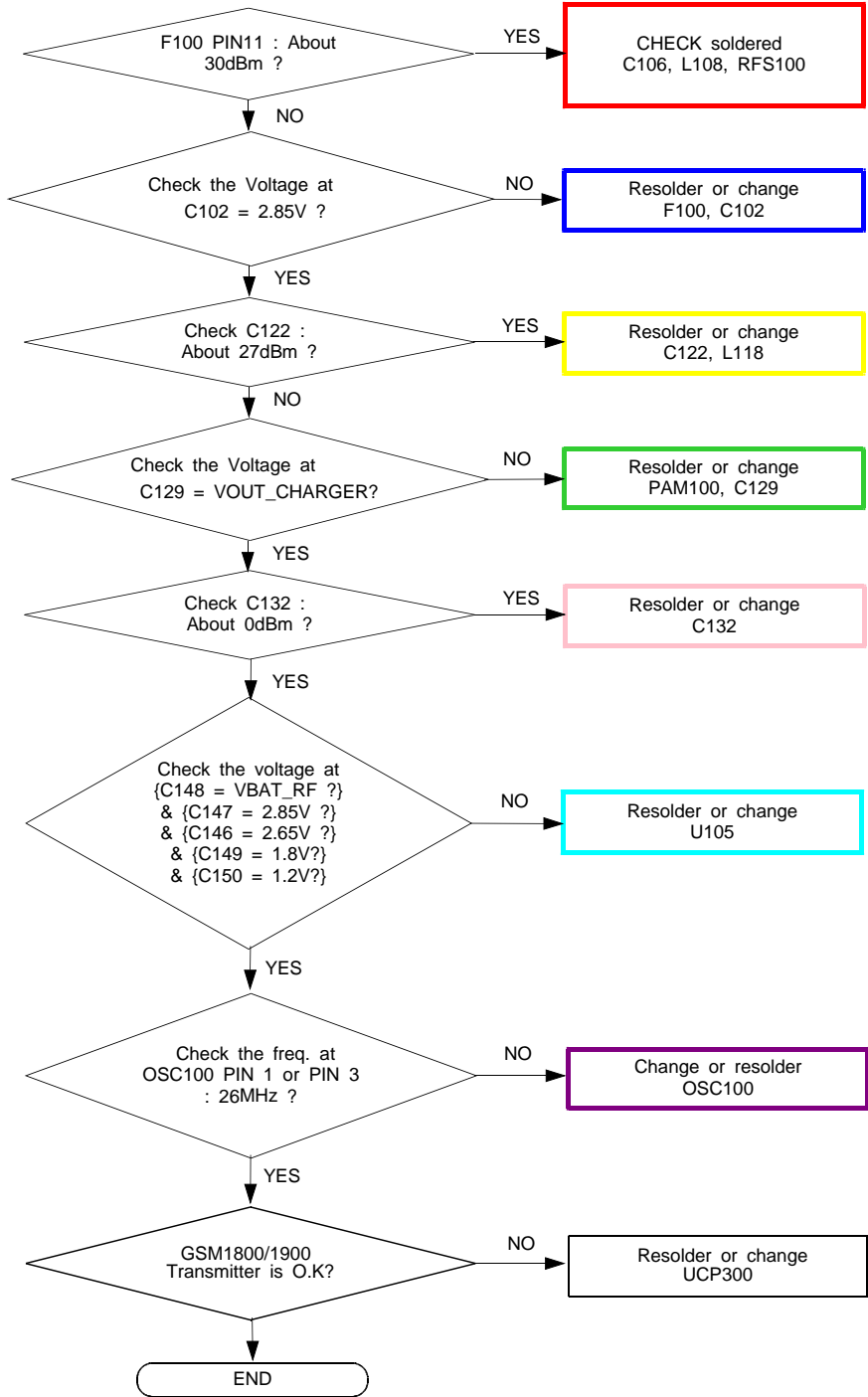




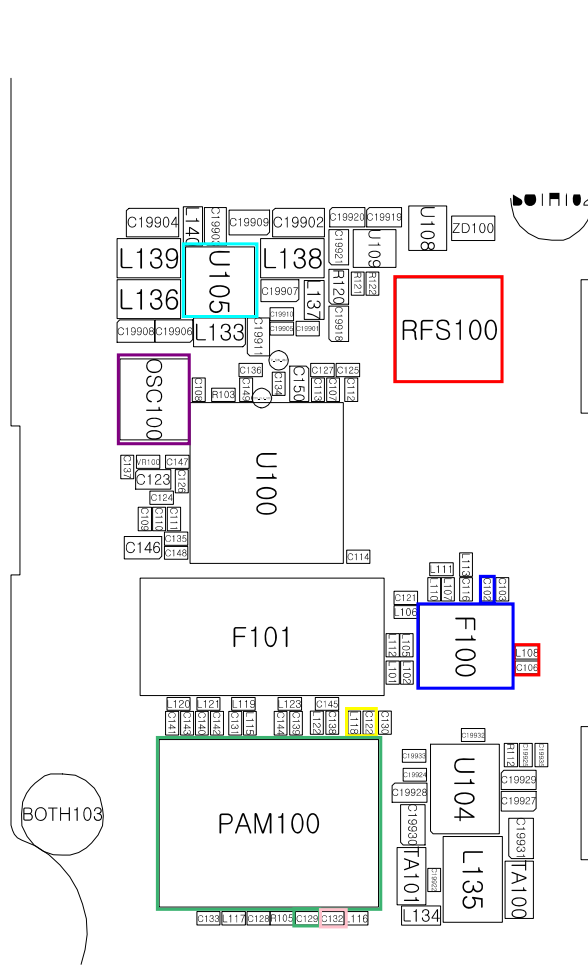


8-3-22. GSM1800/ GSM1900 TX

CONTINUOUS TX ON CONDITION  
 TX POWER DAC:14500 CODE  
 APPLIED  
 DCS CH : 685  
 PCS CH : 661  
 RBW : 100KHz  
 VBW : 100KHz  
 SPAN : 10MHz  
 REF LEV. : 10dBm  
 ATT. : 20dB

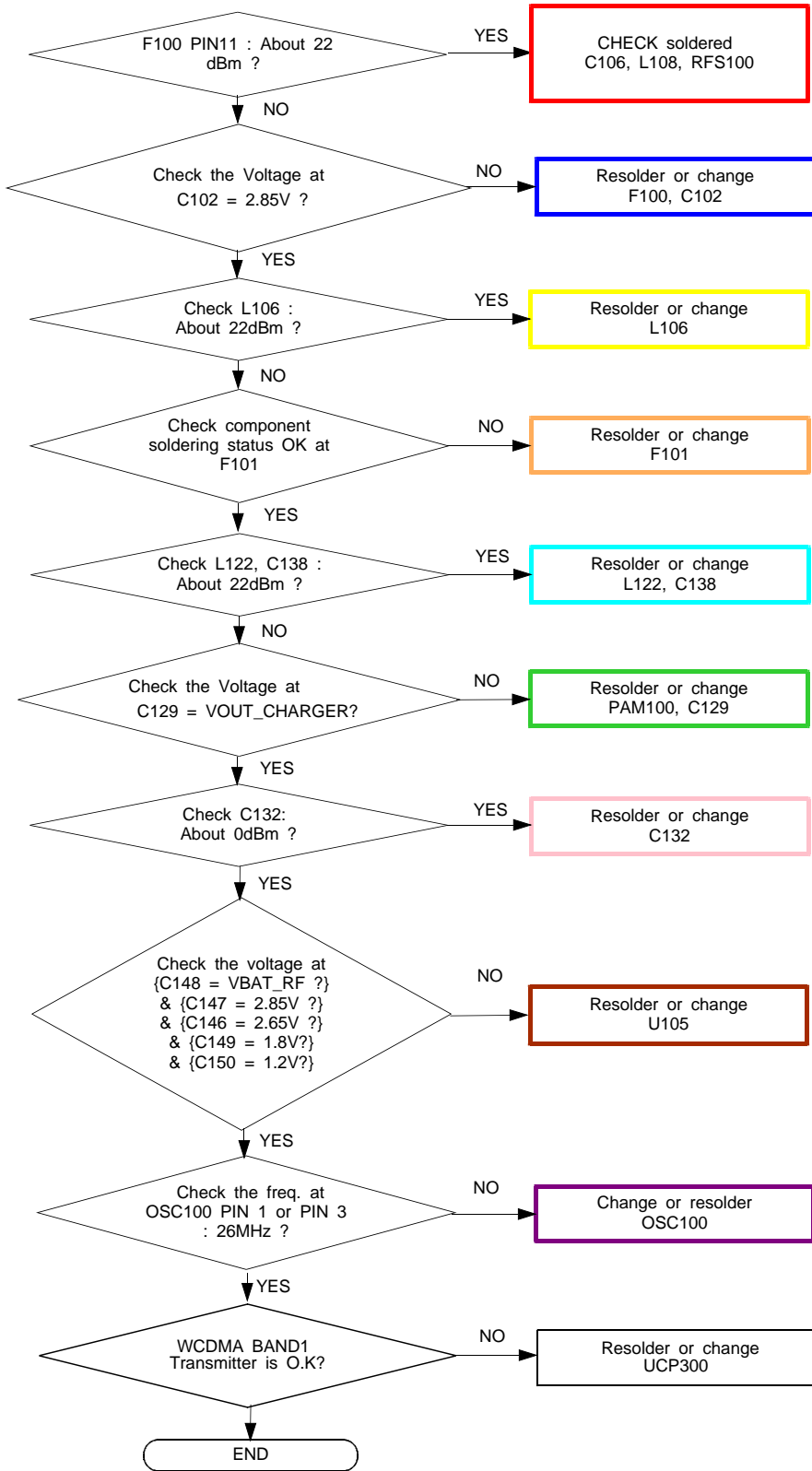


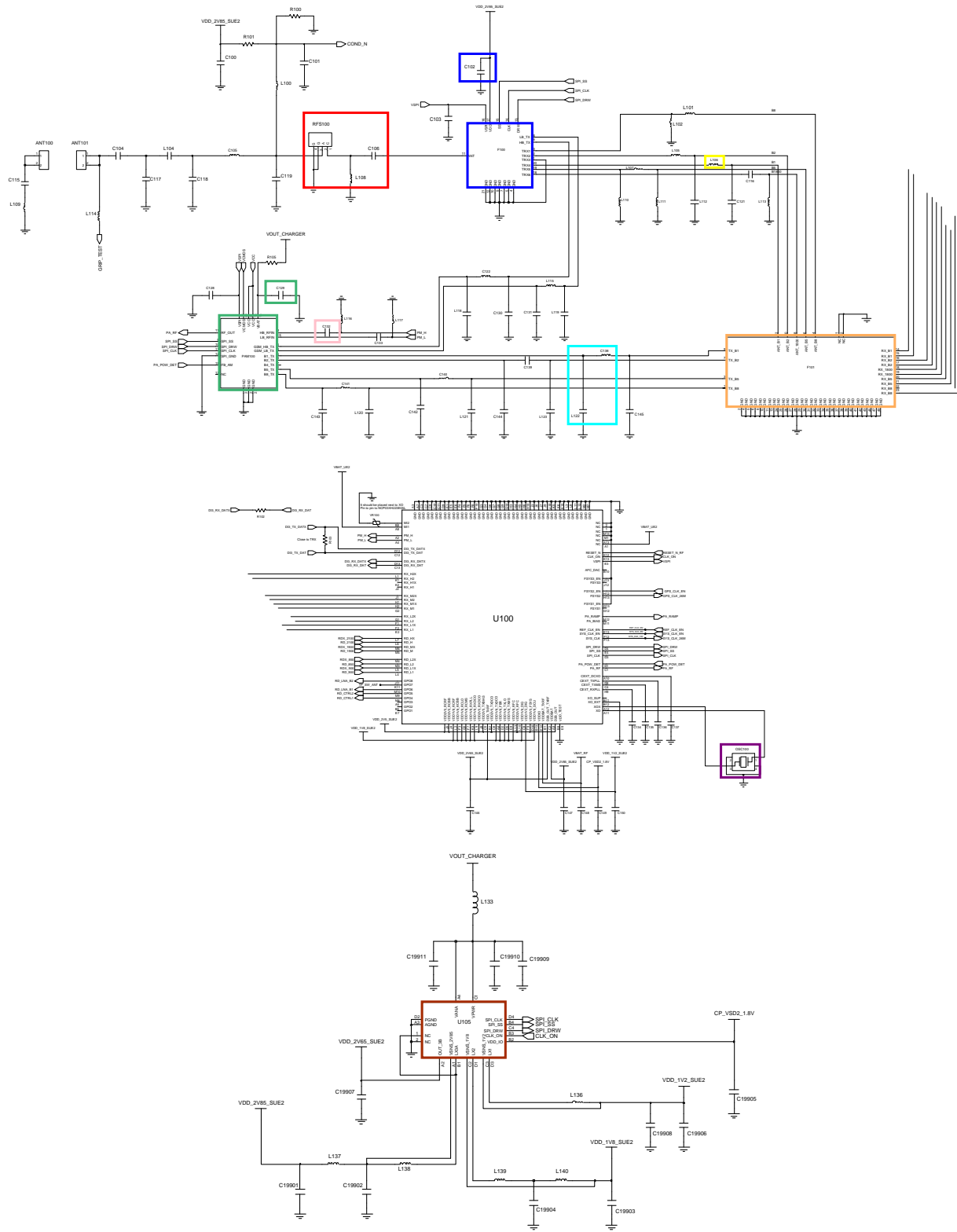




8-3-23. WCDMA BAND1 TX

CONTINUOUS TX ON CONDITION  
 TX POWER DAC:14500 CODE  
 APPLIED  
 WCDMA Band1 CH : 10700  
 RBW : 100KHz  
 VBW : 100KHz  
 SPAN : 10MHz  
 REF LEV. : 10dBm  
 ATT. : 20dB



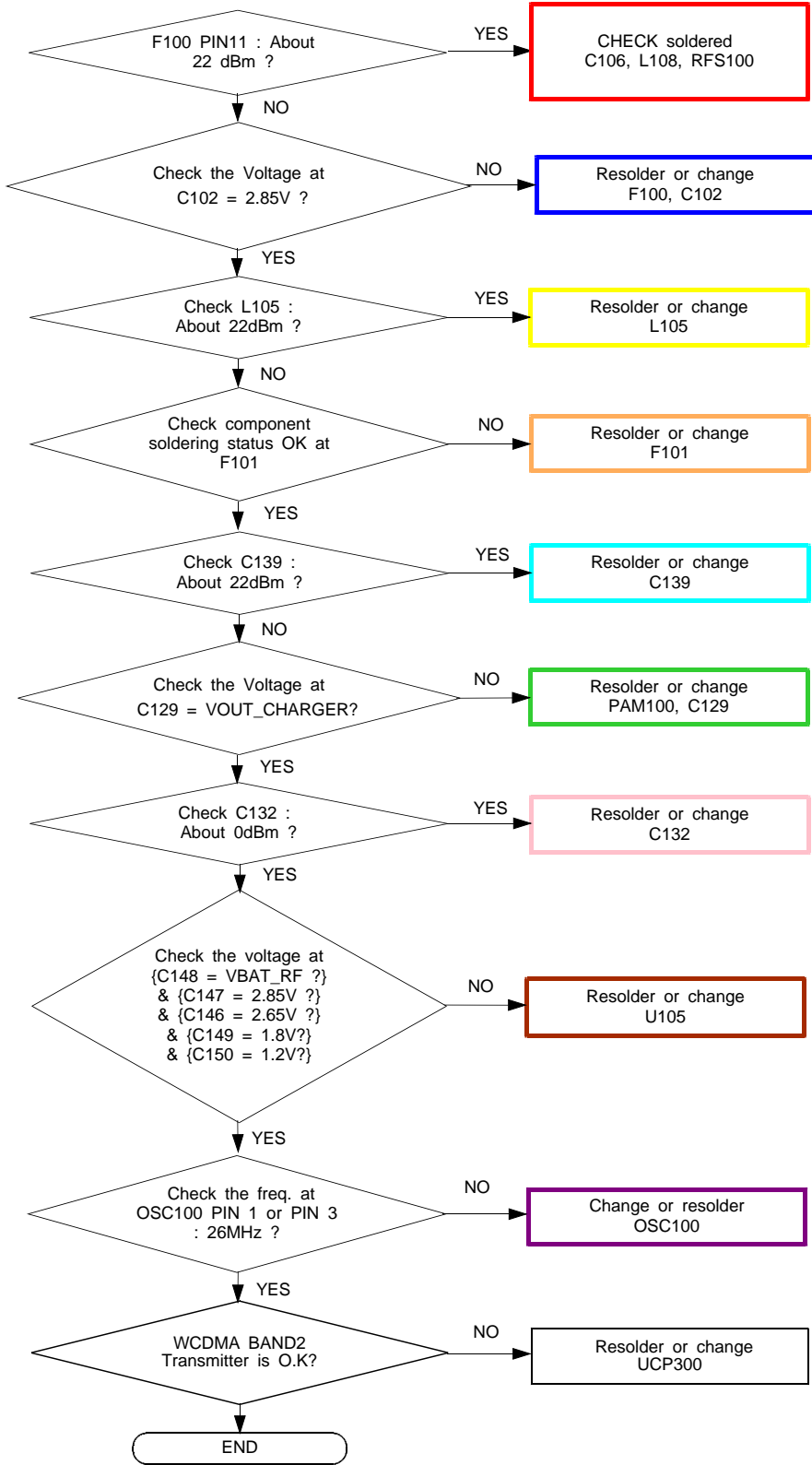


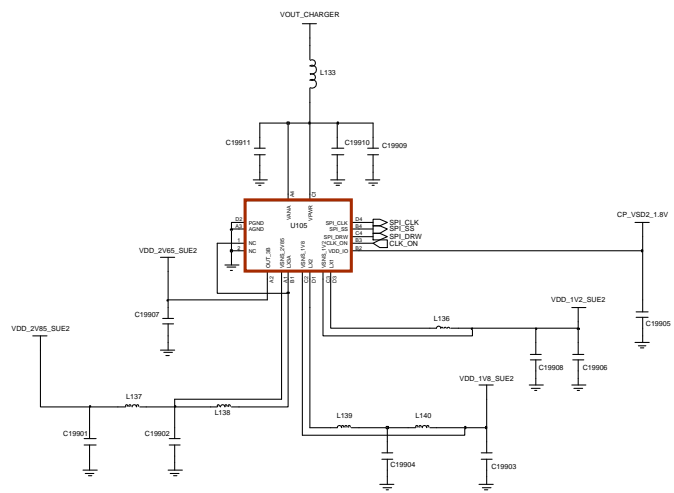
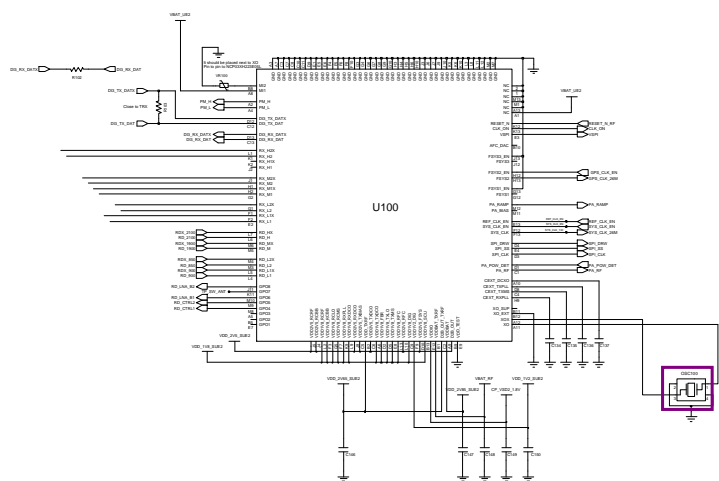
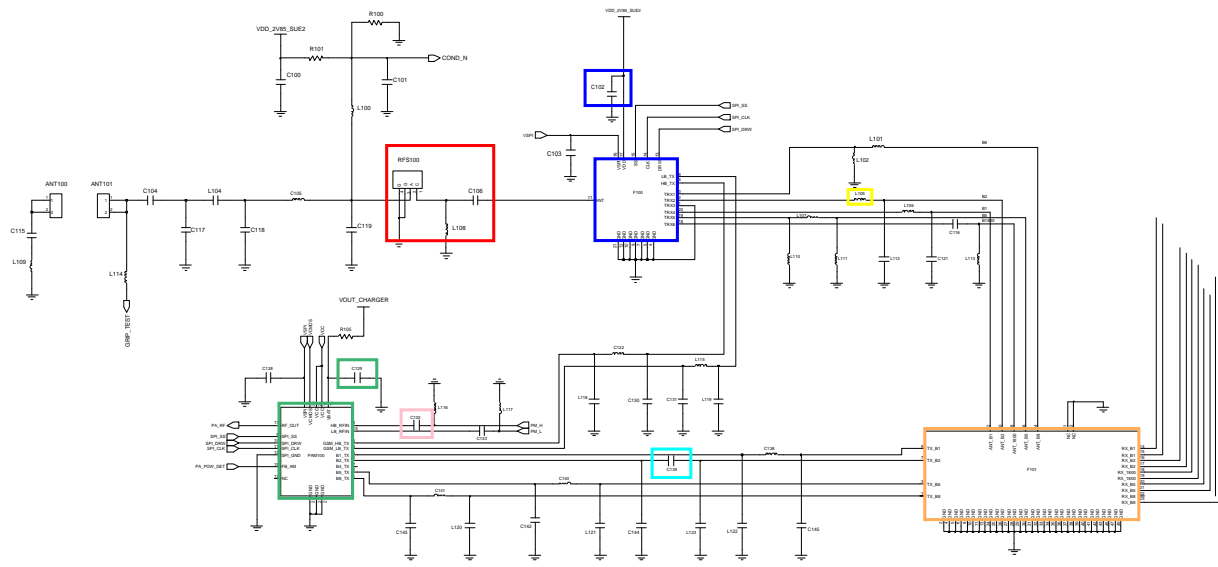


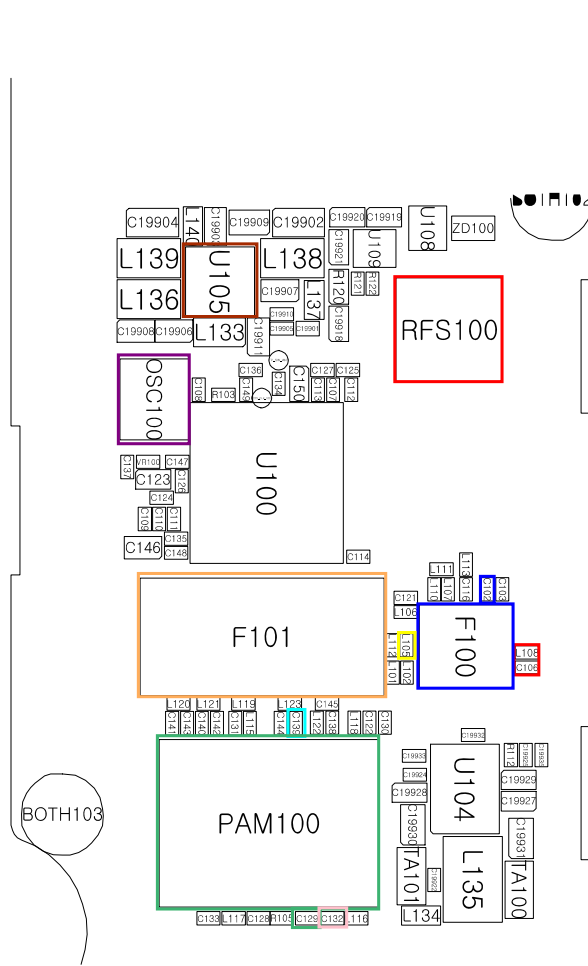


8-3-24. WCDMA BAND2 TX

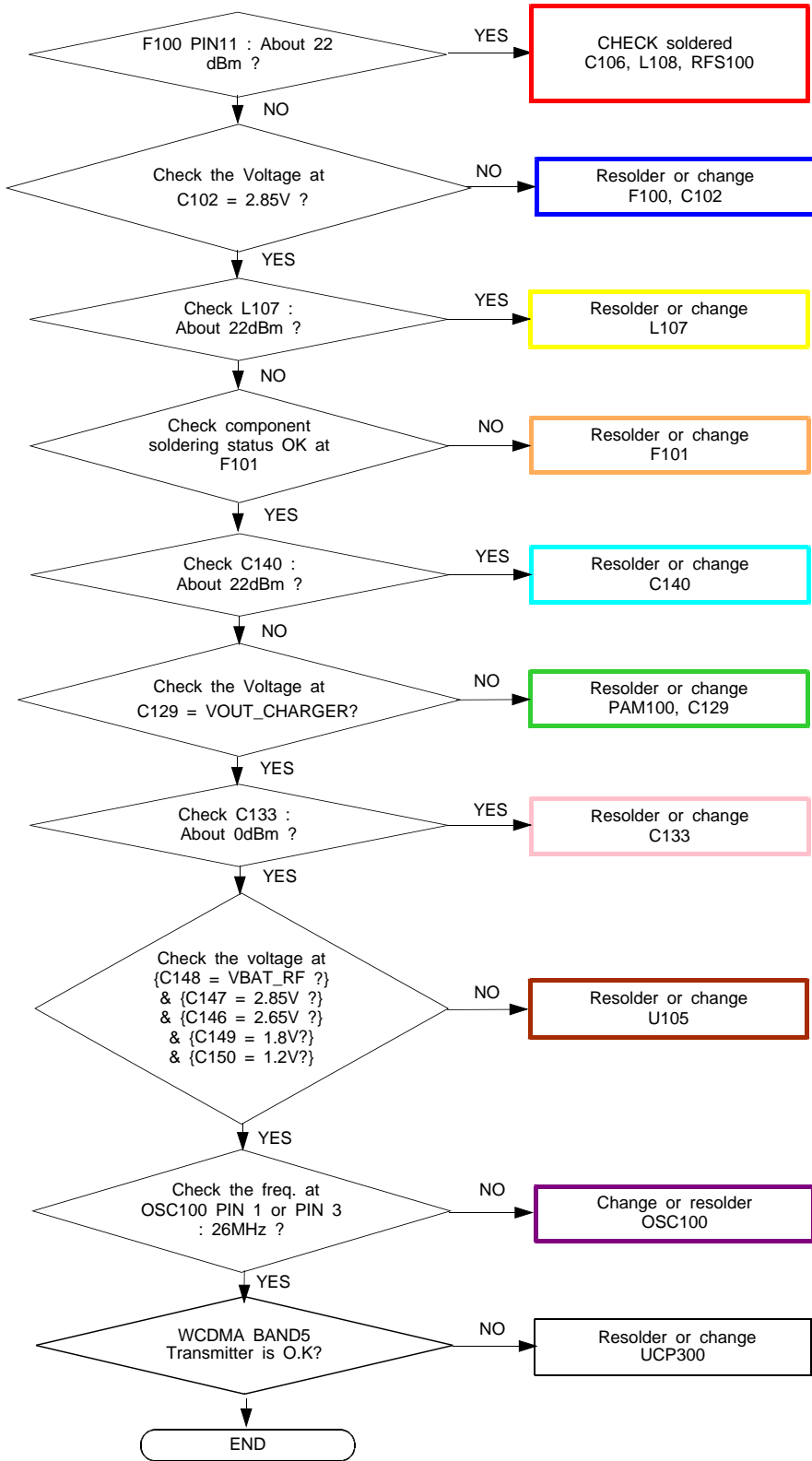
CONTINUOUS TX ON CONDITION  
 TX POWER DAC:14500 CODE  
 APPLIED  
 WCDMA Band2 CH : 9880  
 RBW : 100KHz  
 VBW : 100KHz  
 SPAN : 10MHz  
 REF LEV. : 10dBm  
 ATT. : 20dB





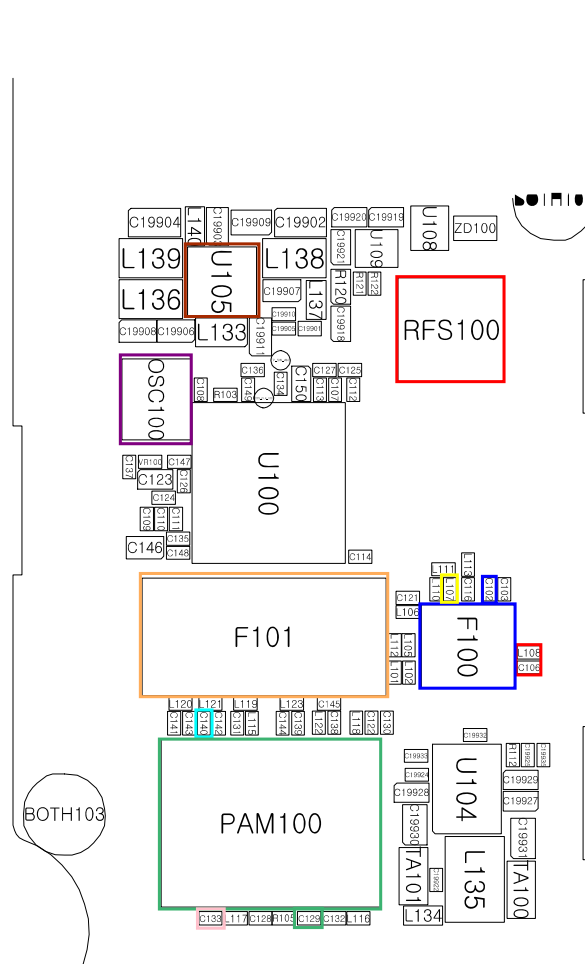


8-3-25. WCDMA BAND5 TX



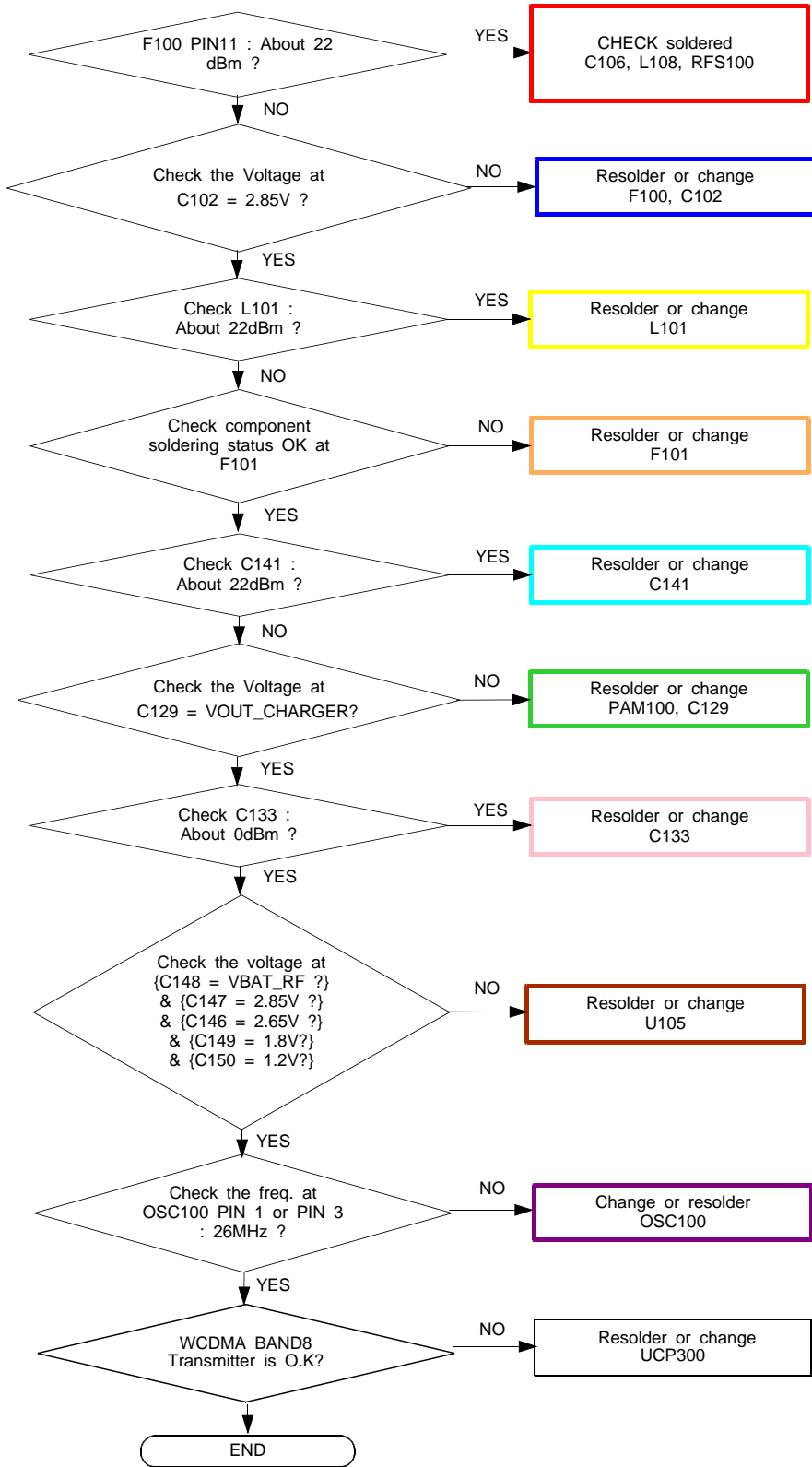
CONTINUOUS TX ON CONDITION  
 TX POWER DAC:14500 CODE  
 APPLIED  
 WCDMA Band5 CH : 4408  
 RBW : 100KHz  
 VBW : 100KHz  
 SPAN : 10MHz  
 REF LEV. : 10dBm  
 ATT. : 20dB

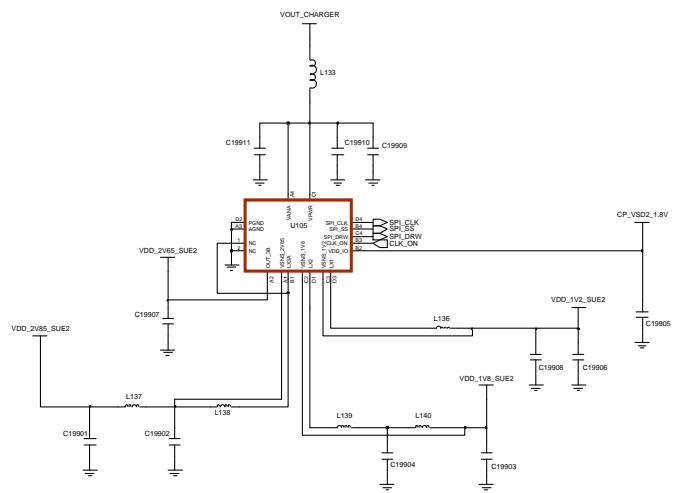
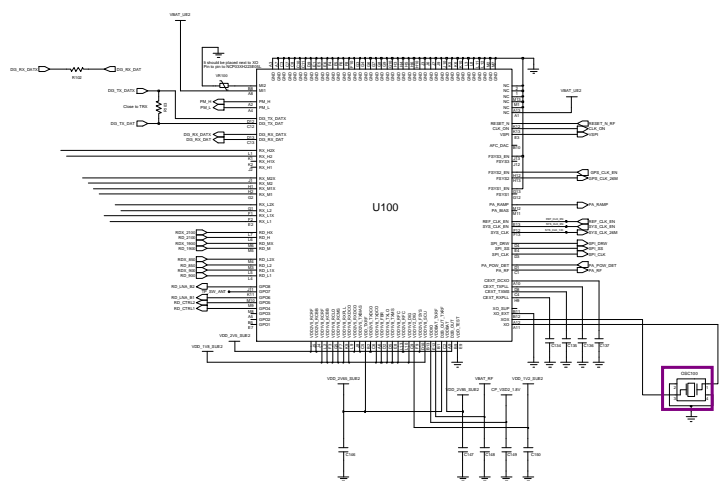
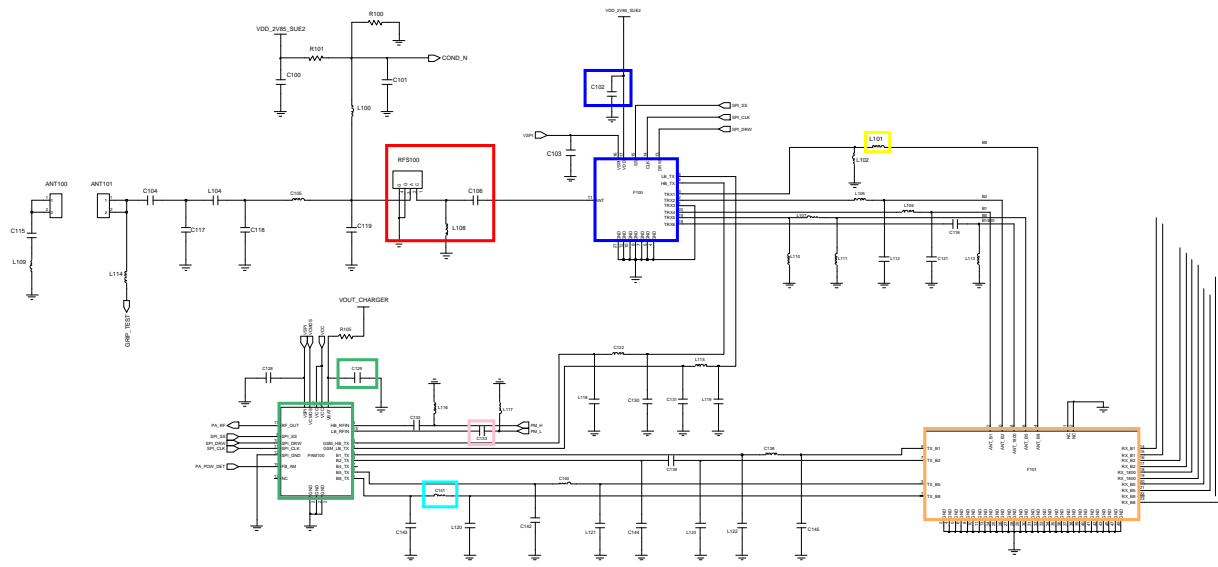




8-3-26. WCDMA BAND8 TX

CONTINUOUS TX ON CONDITION  
 TX POWER DAC:14500 CODE  
 APPLIED  
 WCDMA Band8 CH : 3013  
 RBW : 100KHz  
 VBW : 100KHz  
 SPAN : 10MHz  
 REF LEV. : 10dBm  
 ATT. : 20dB









8-3-27. Sim Part

