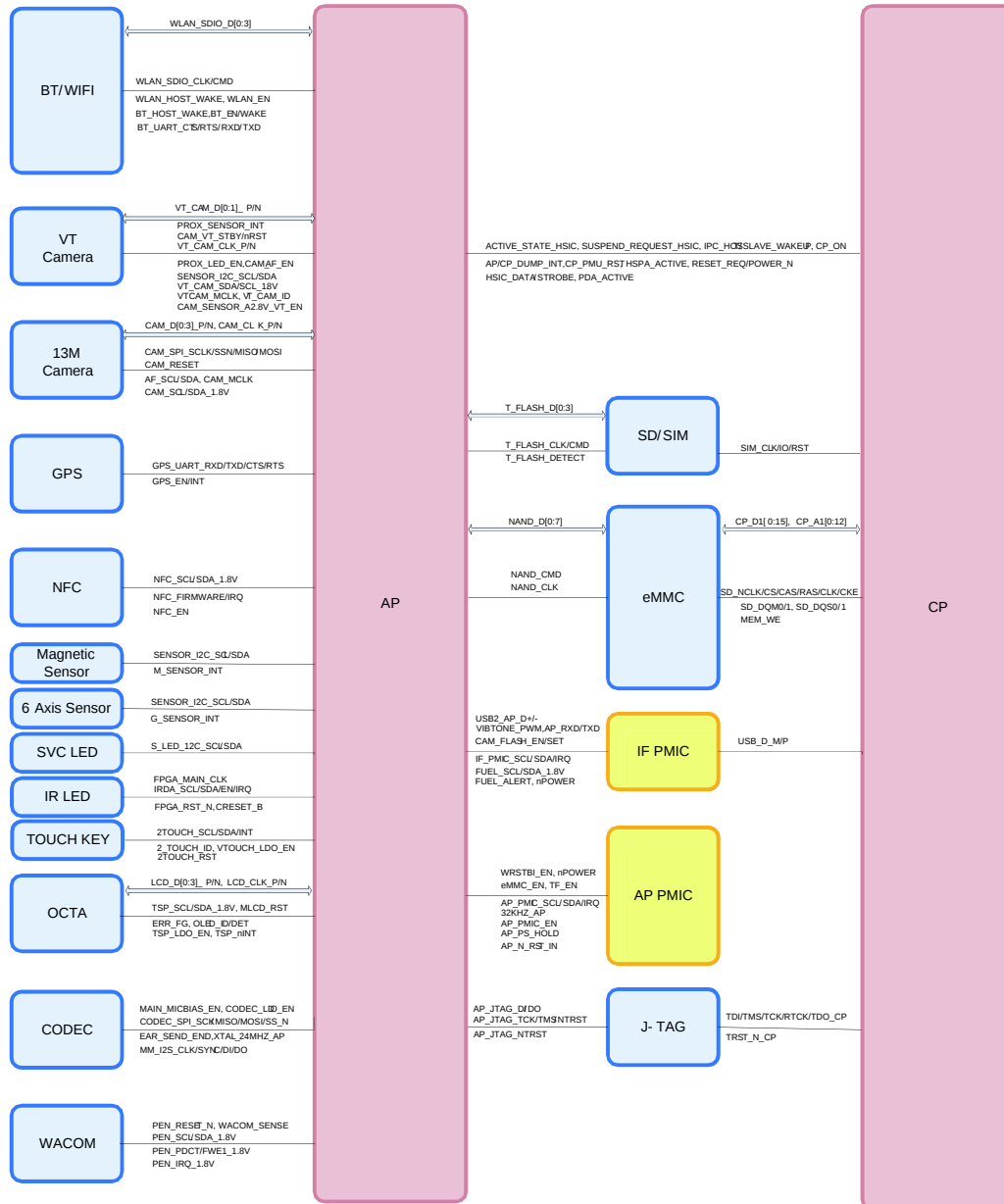
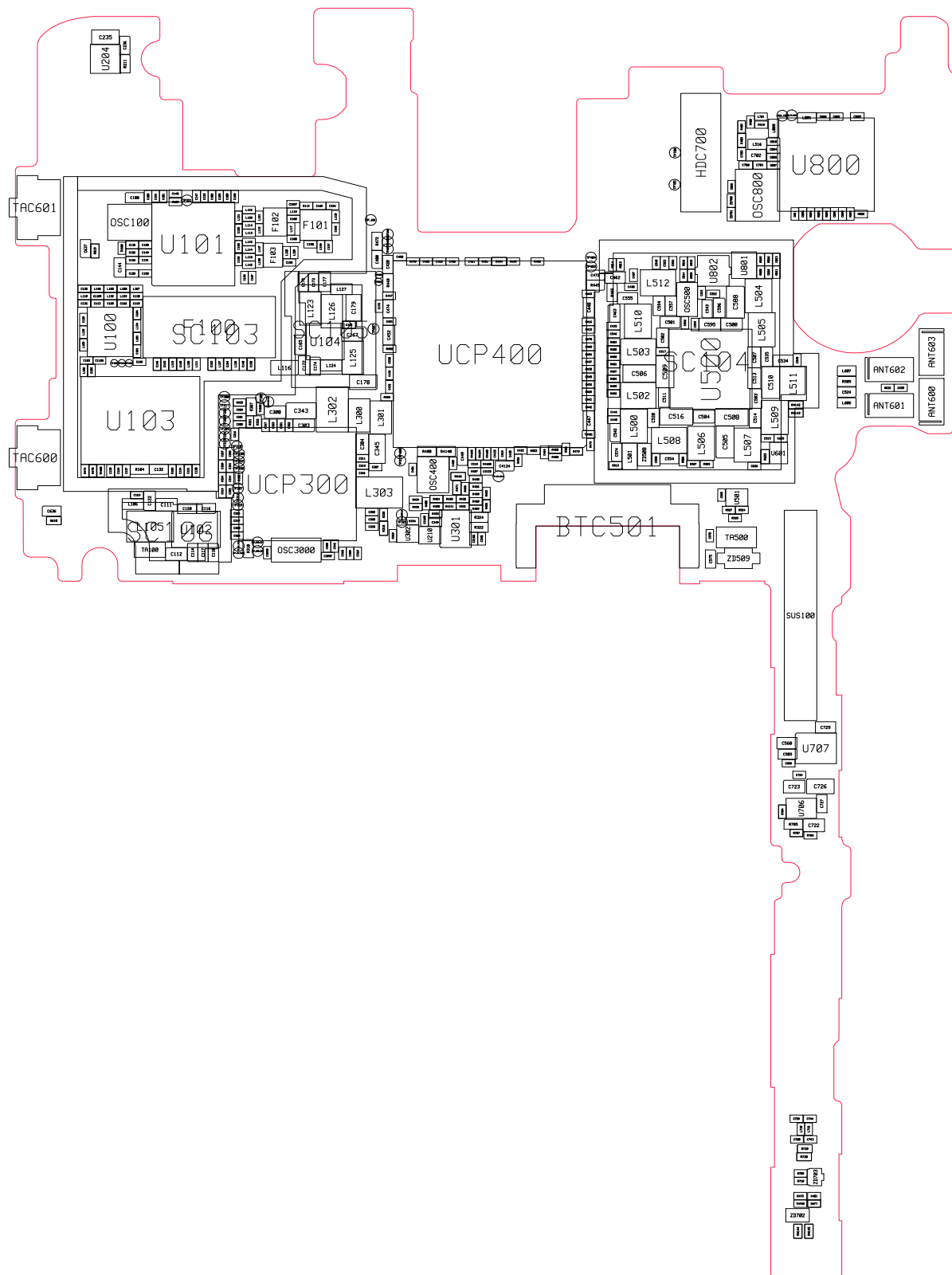


8. Level 3 Repair

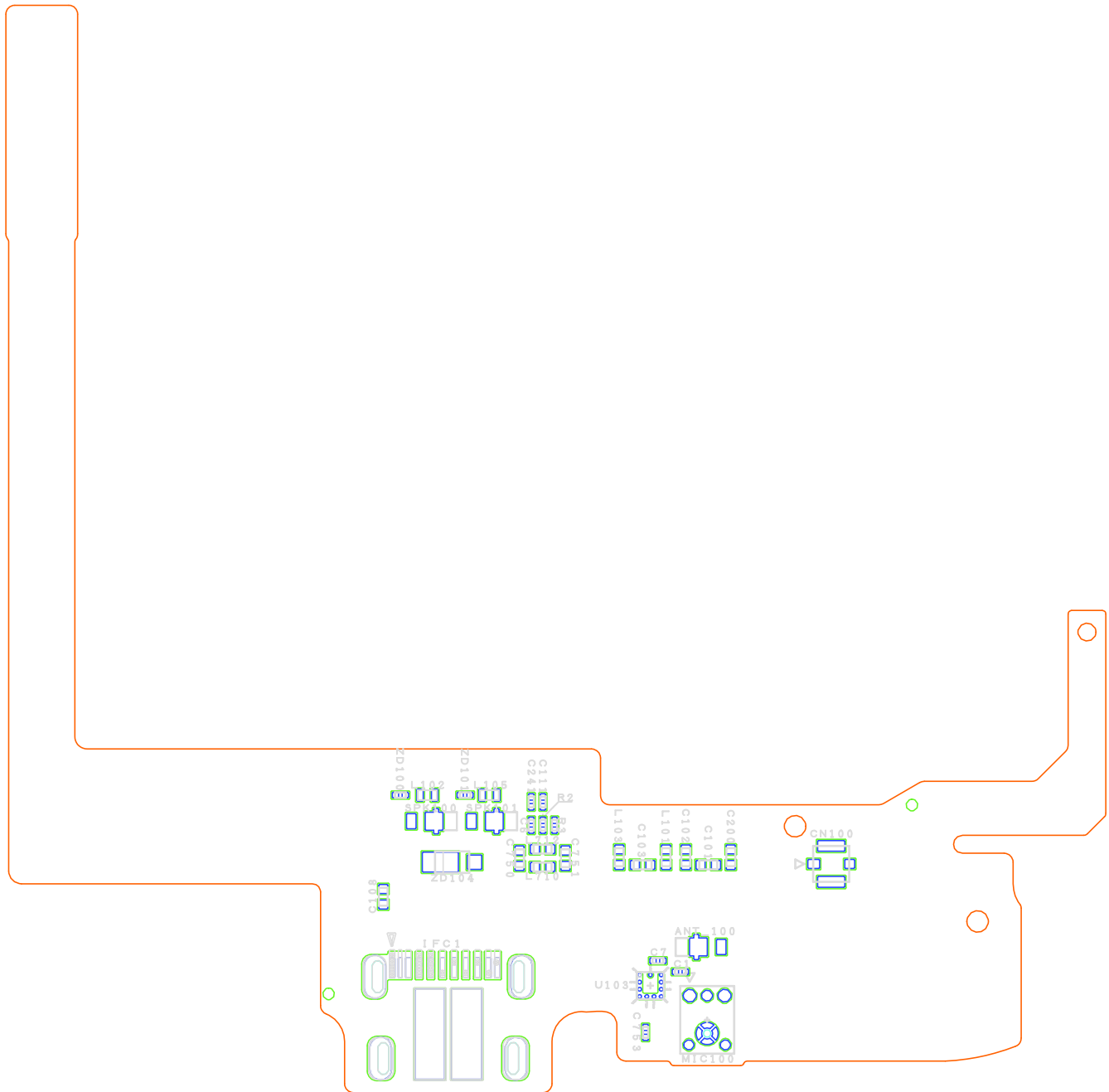
8-1. Block Diagram

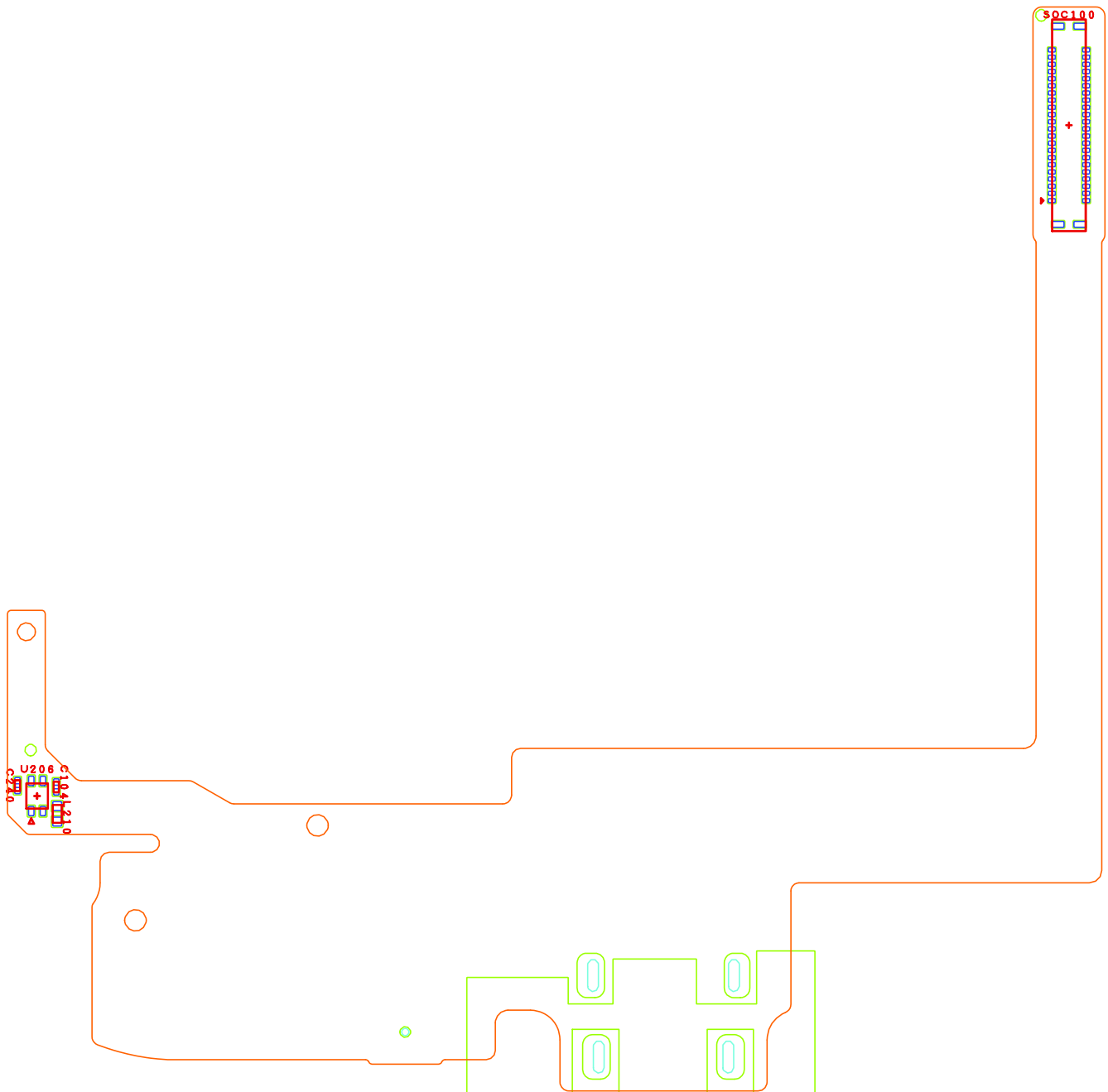
HL 3G BB Block Diagram





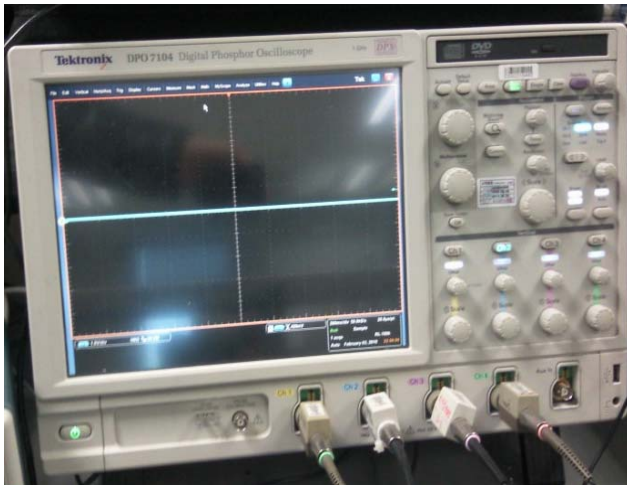
8-2-3. Sub PCB Top





8-3. Flow Chart of Troubleshooting

Equipments



↑ Oscilloscope



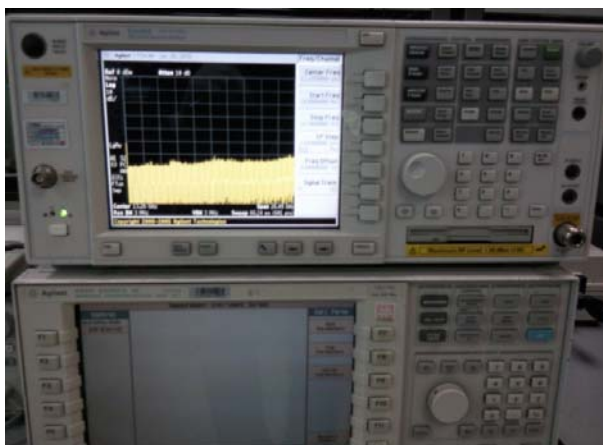
↑ Digital Multimeter



↑ Power Supply



↑ + driver, ESD Safe Tweezer

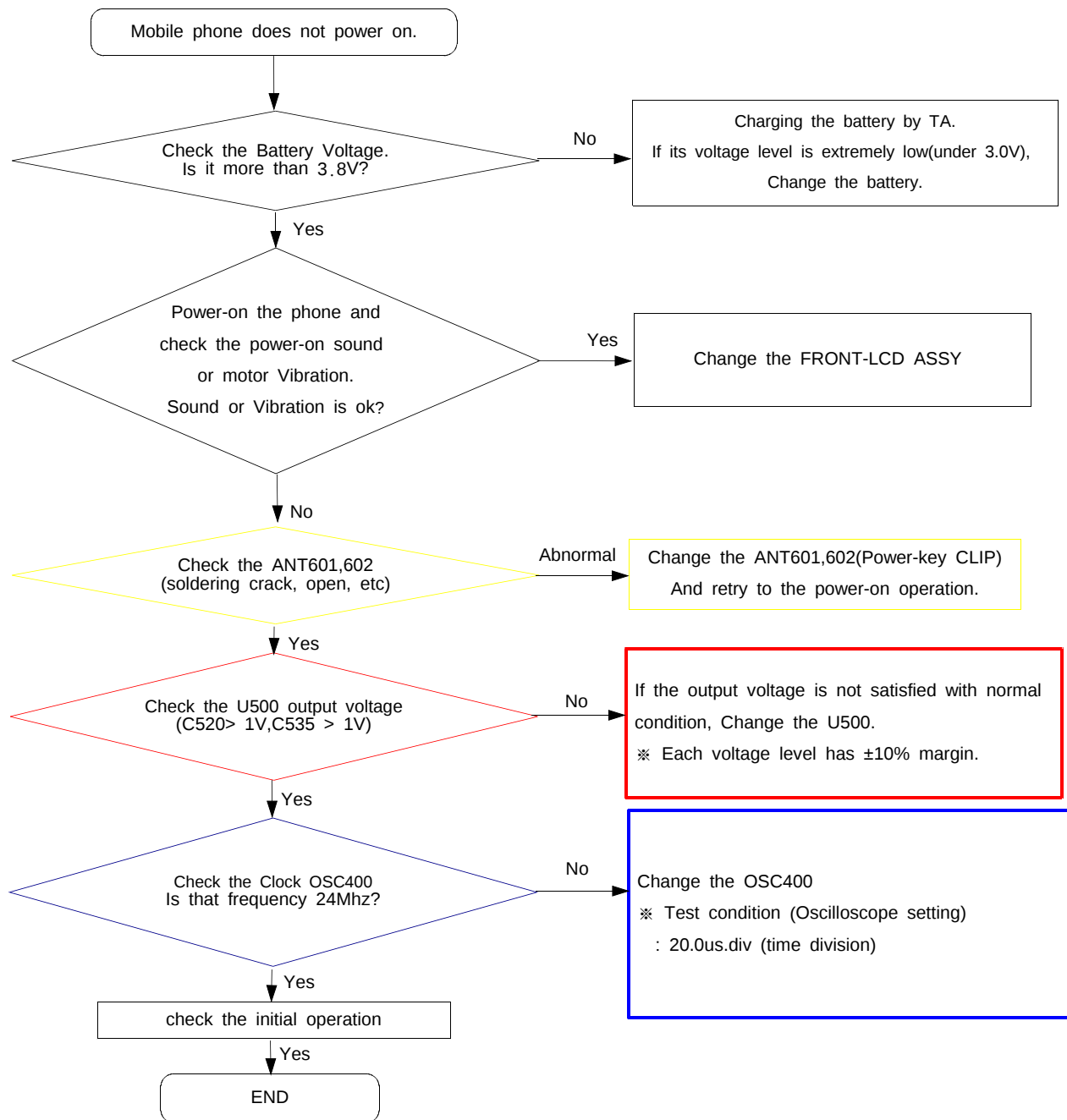


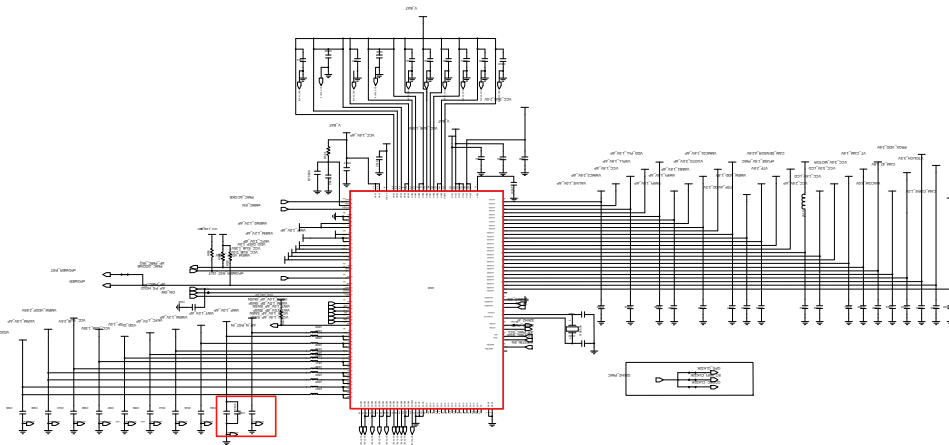
↑ 8960 & Spectrum Analyzer



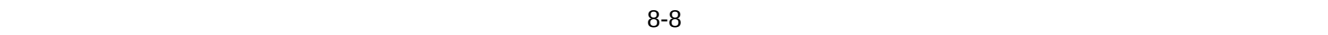
↑ Soldering iron

8-3-1. Power On

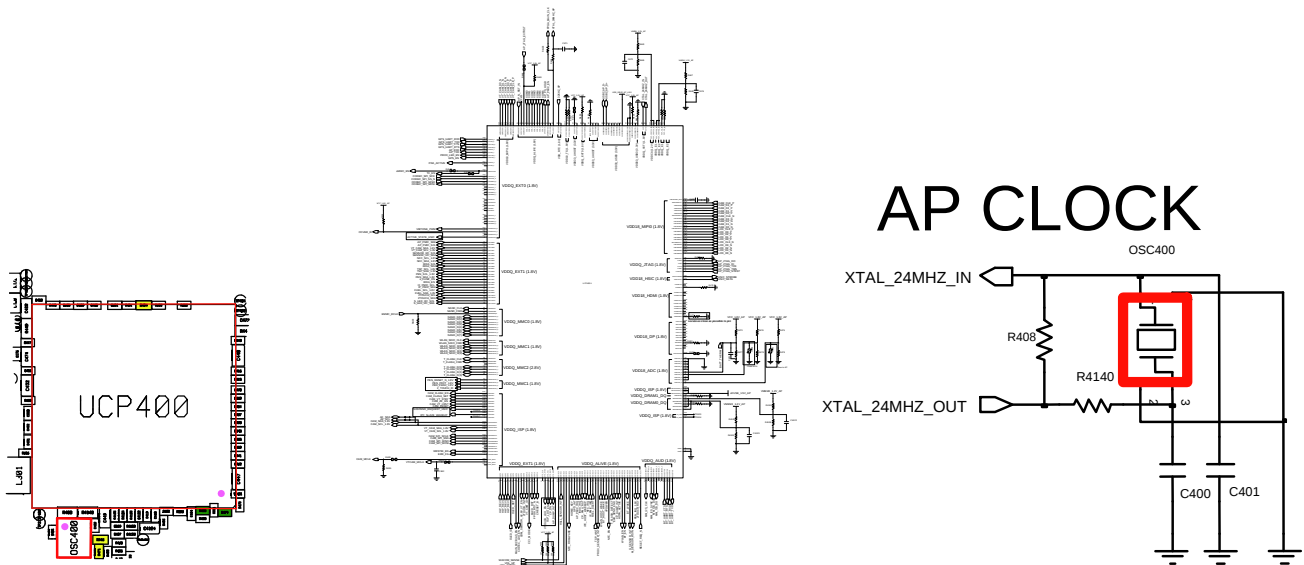
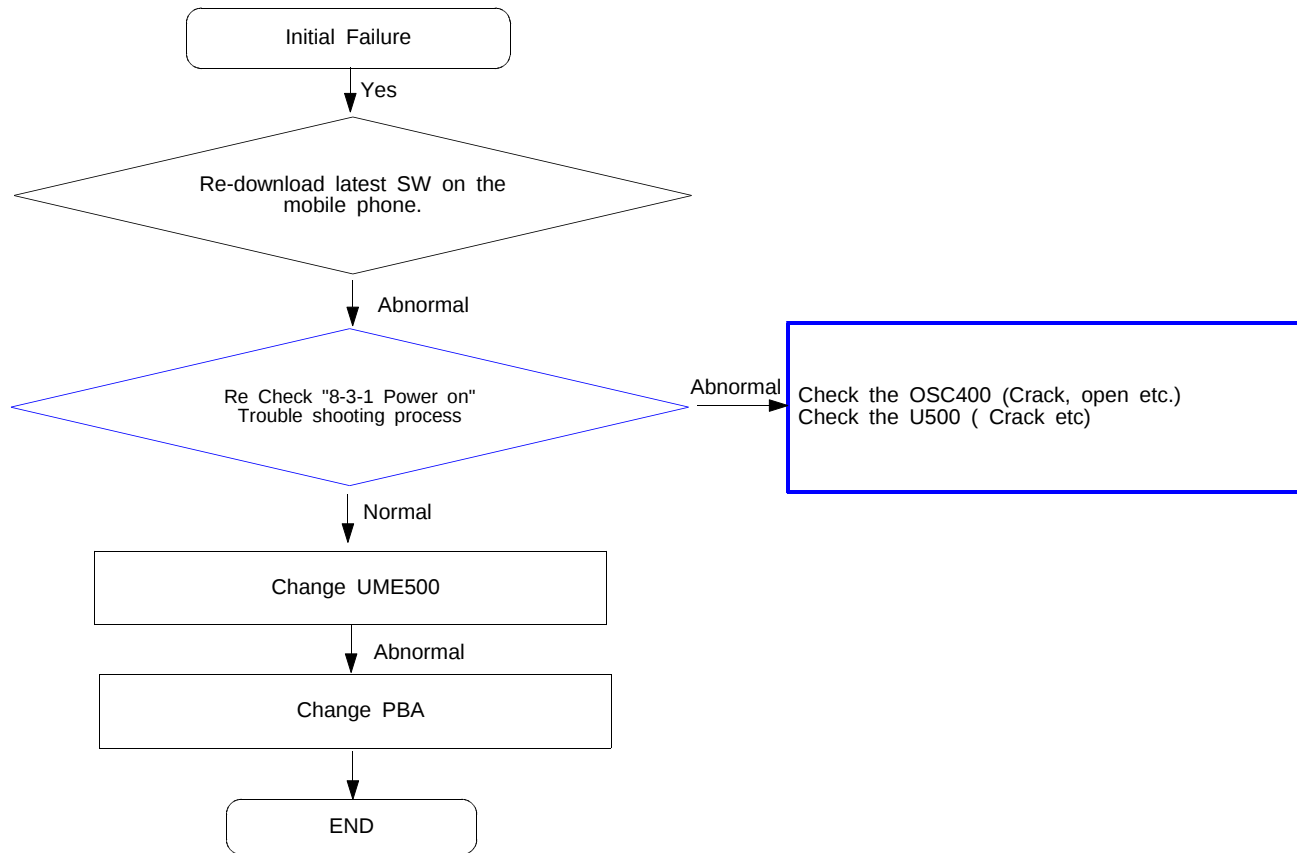




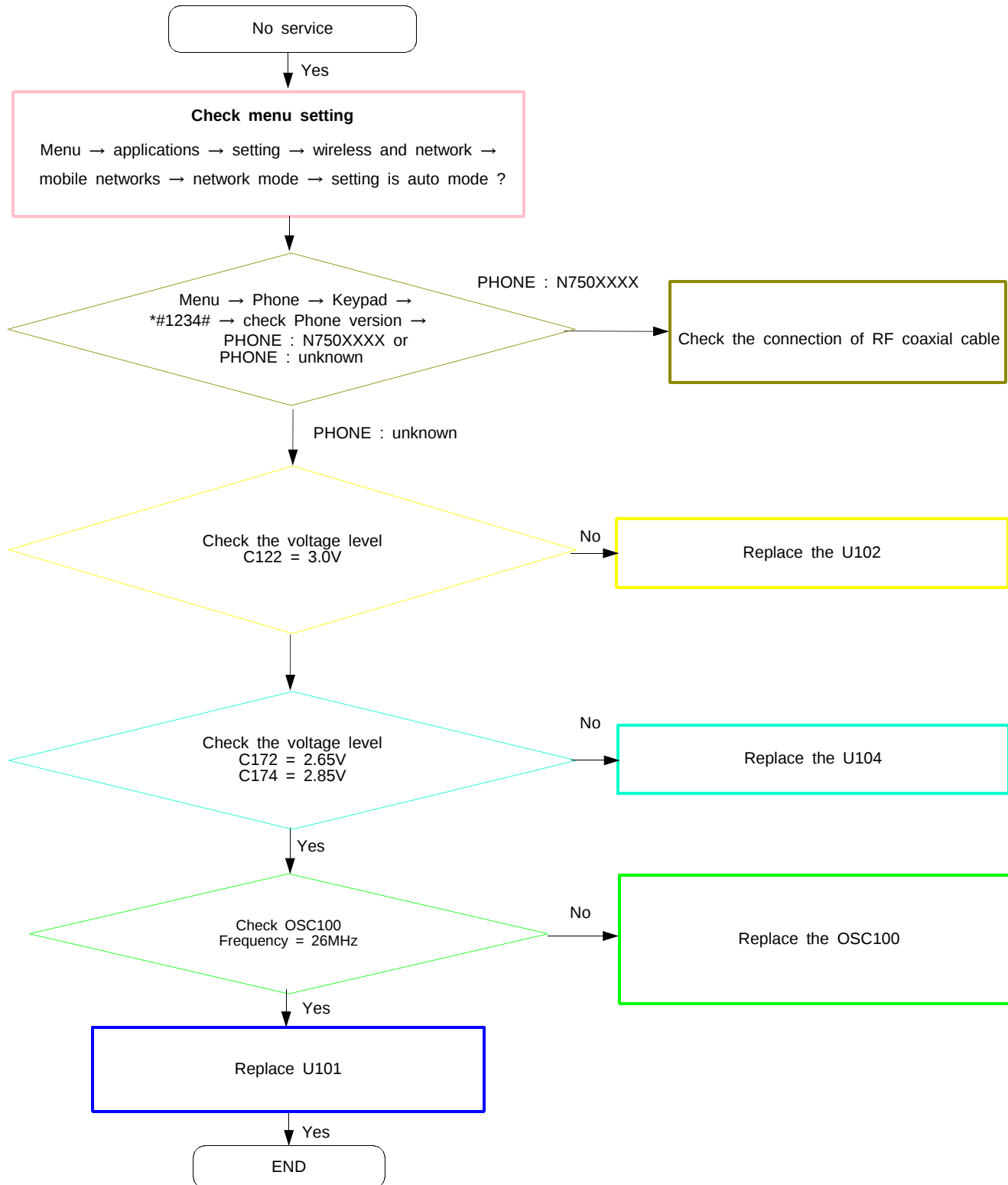
OSC400

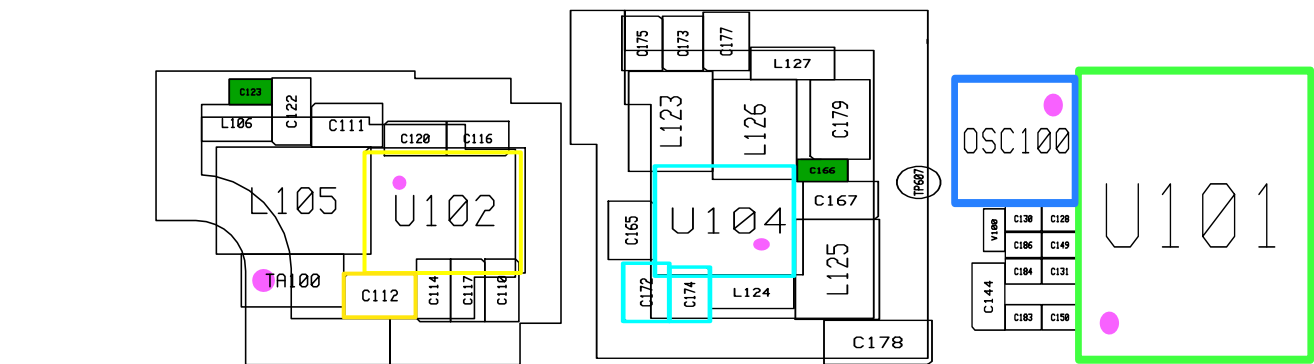
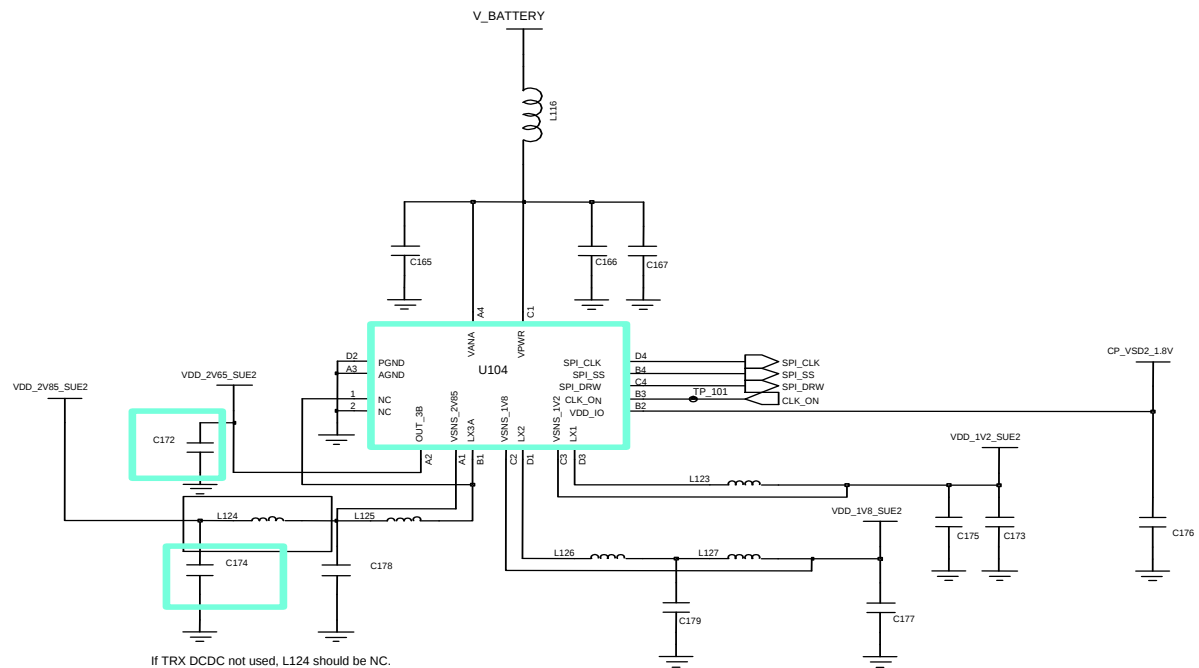
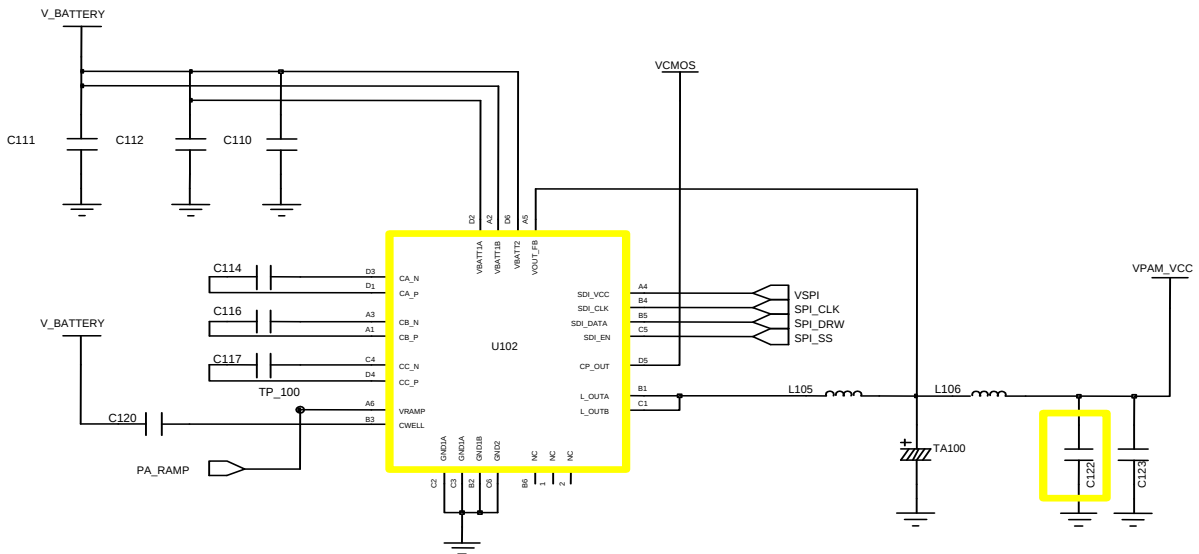


8-3-2. Initial

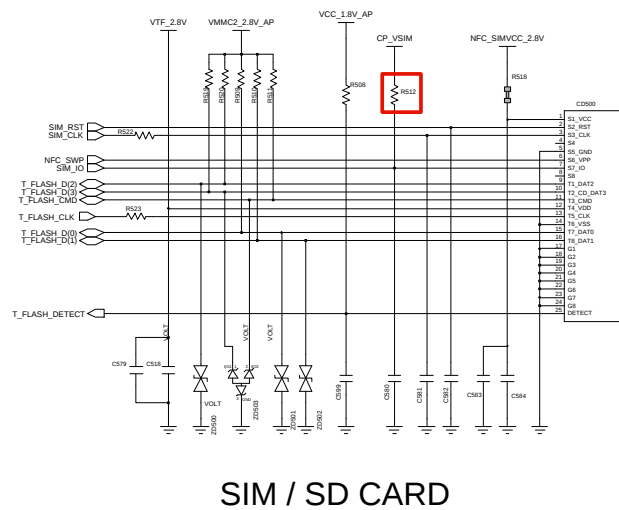
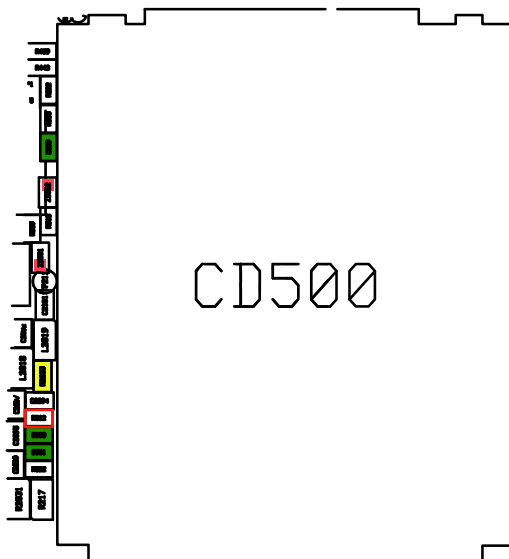
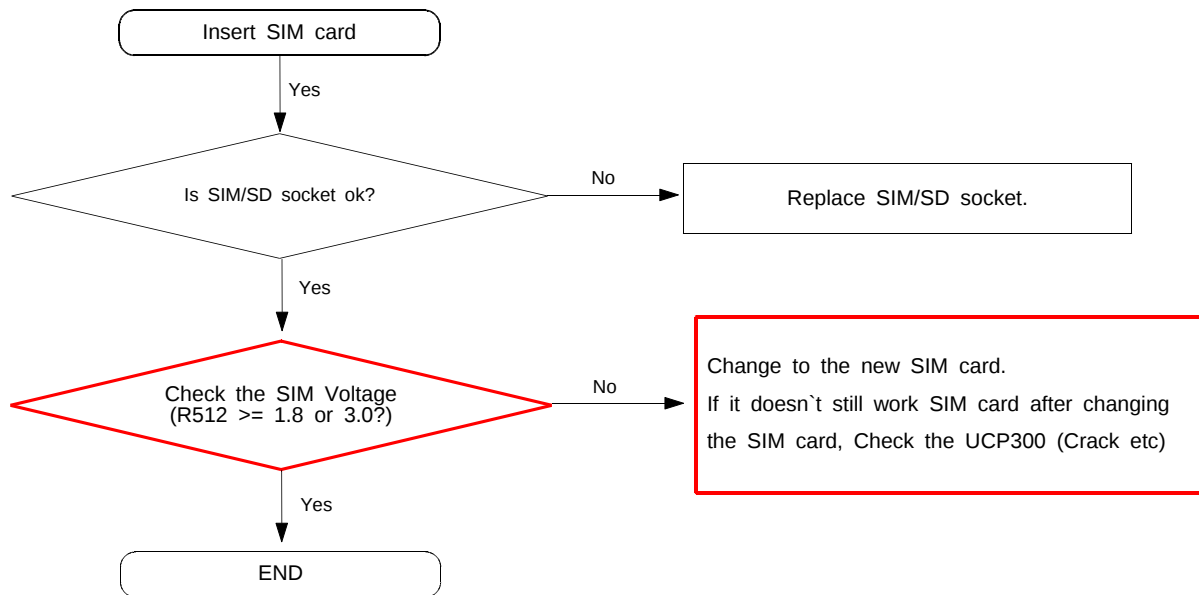


8-3-3. No Service

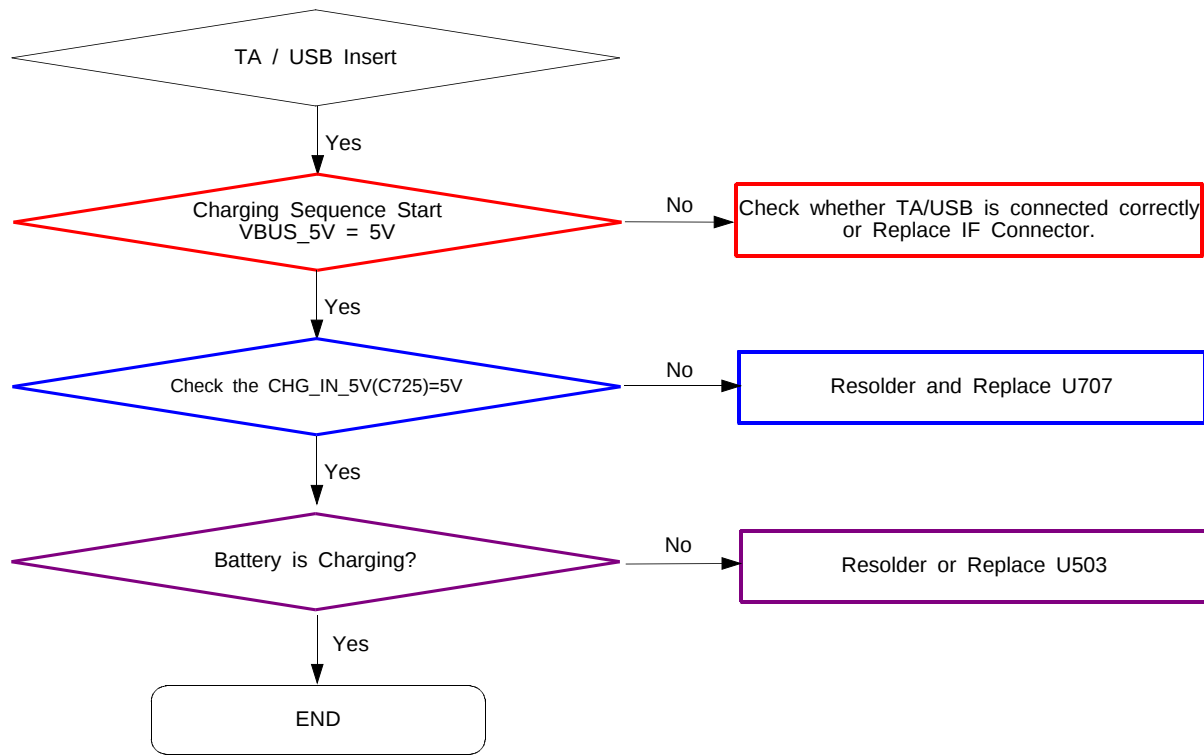


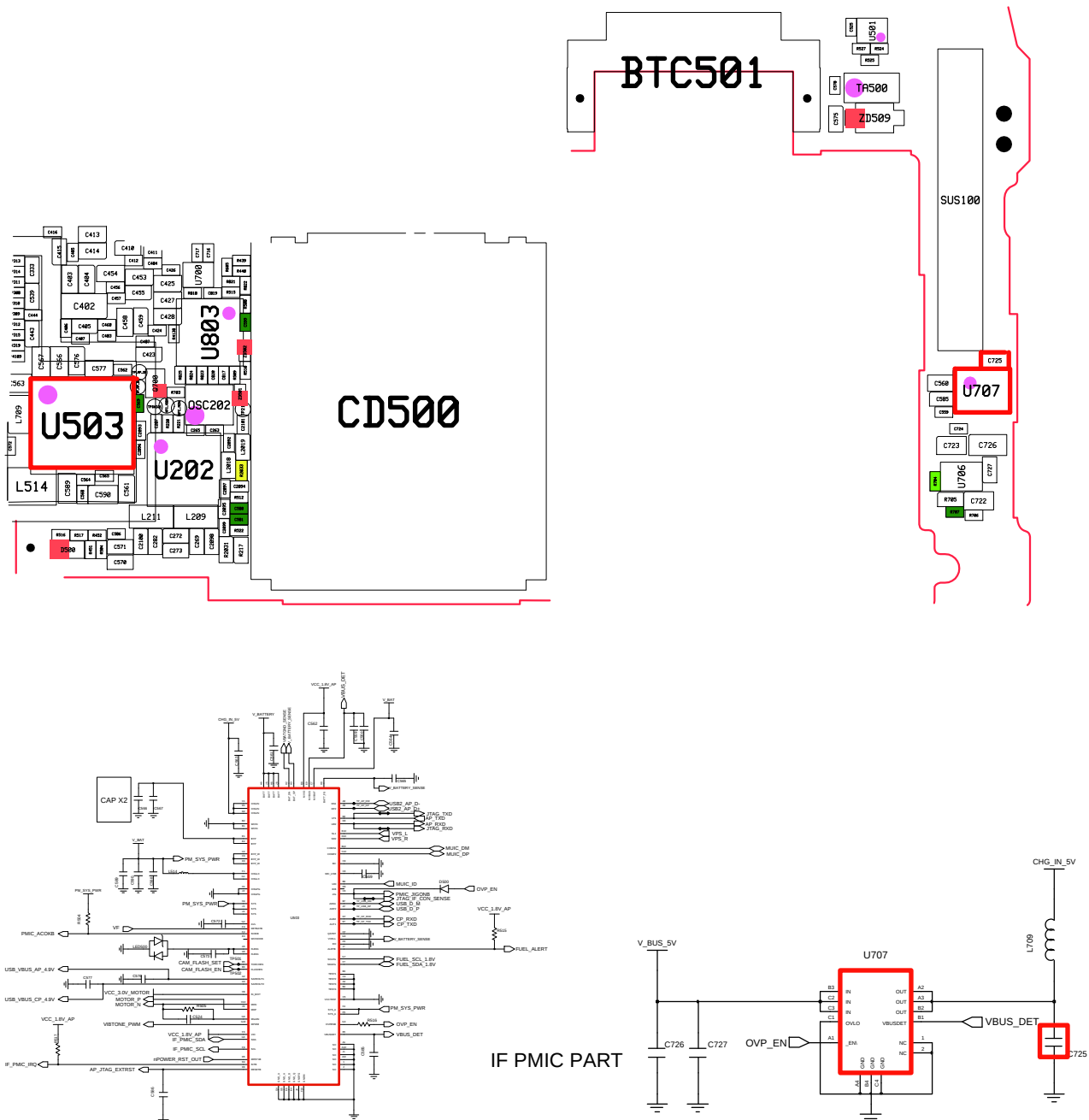


8-3-4. Sim Part

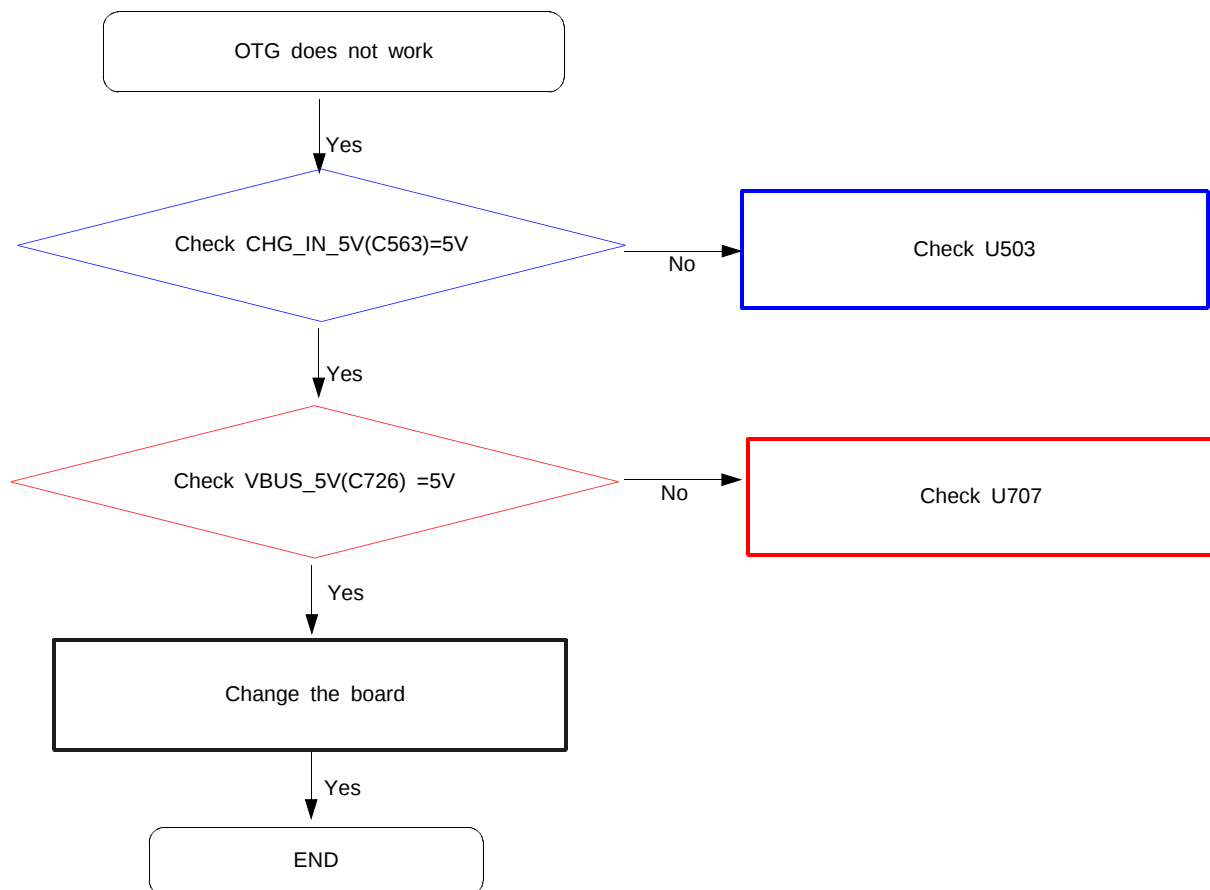


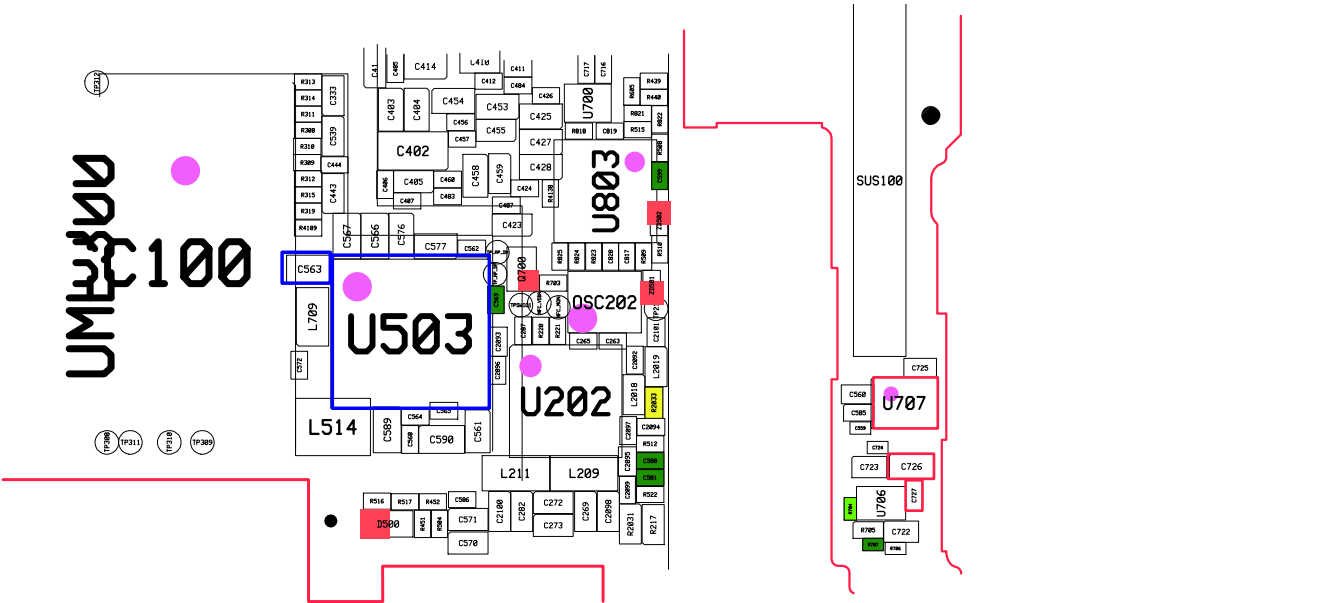
8-3-5. Charging Part





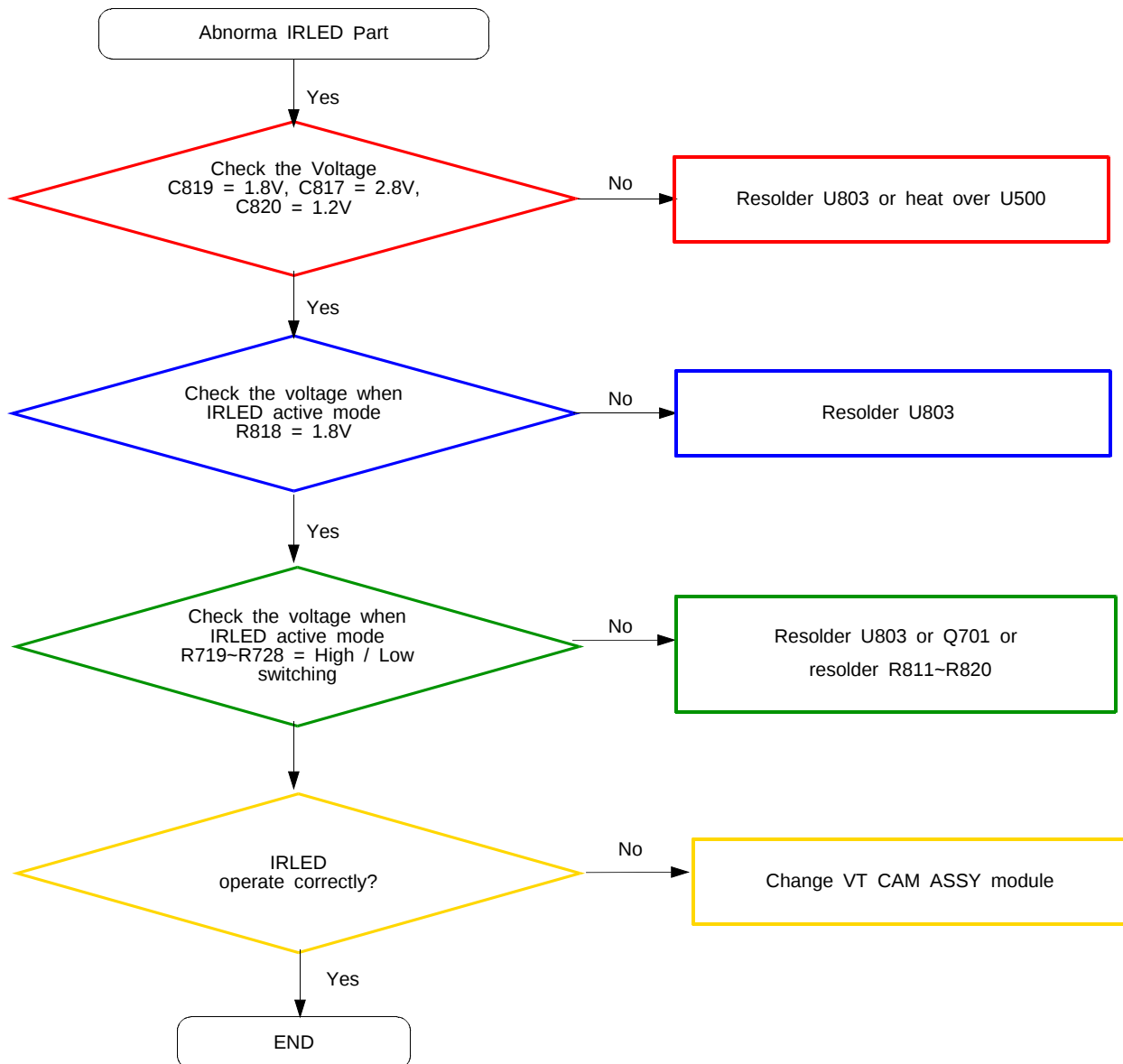
8-3-6. OTG

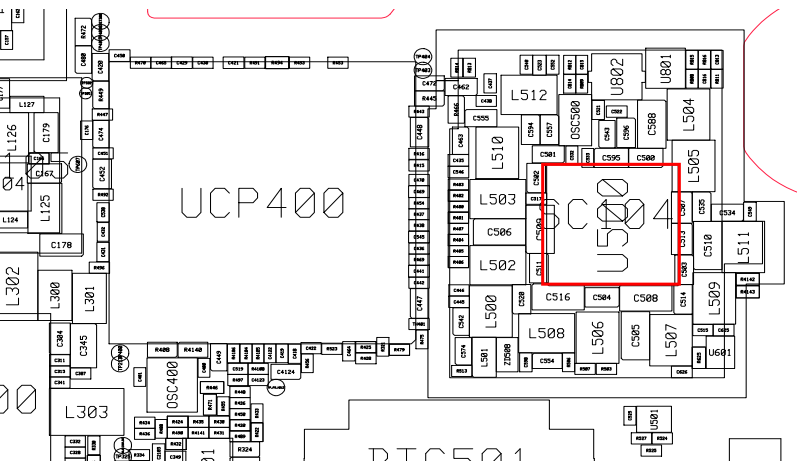




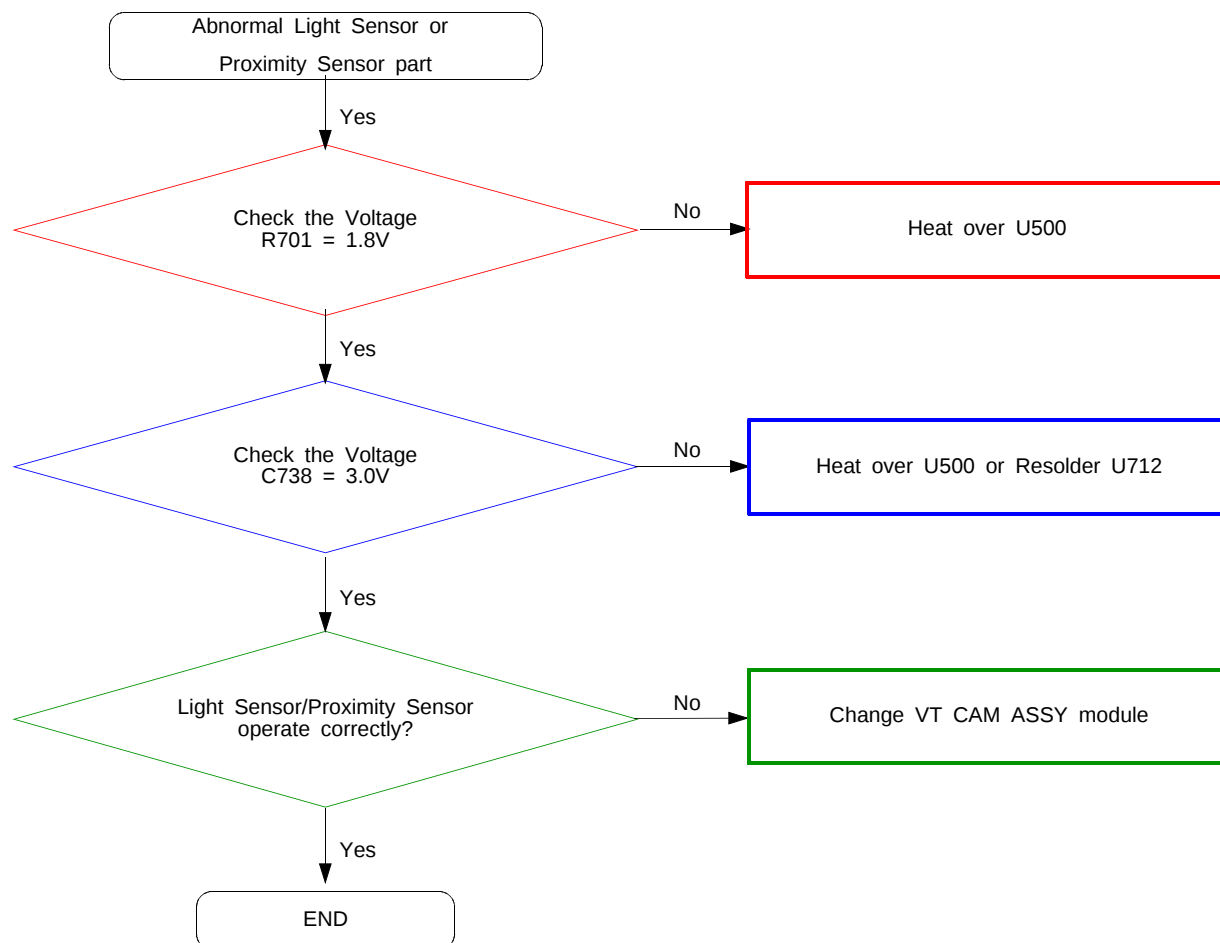
8-3-7. Sensor

1. IR LED

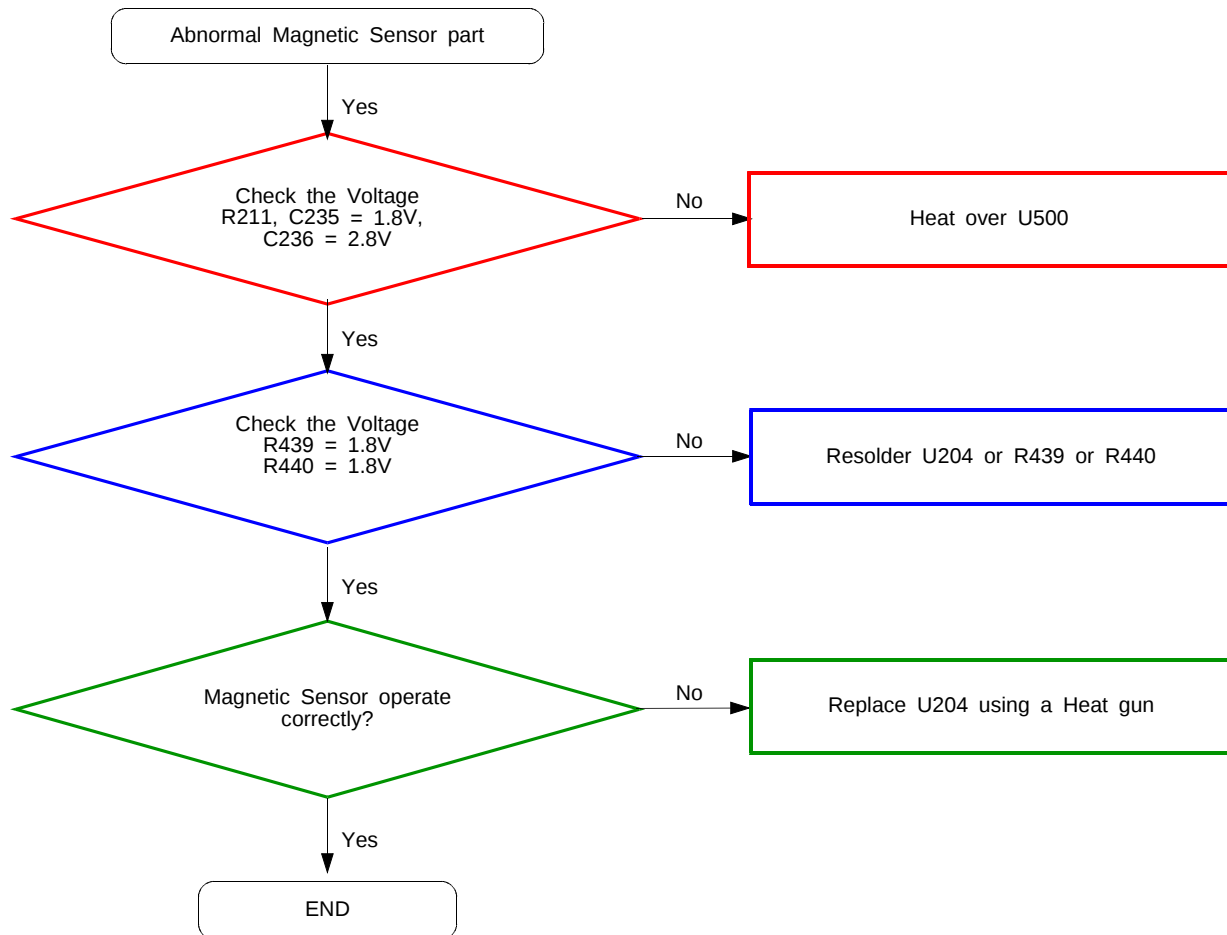


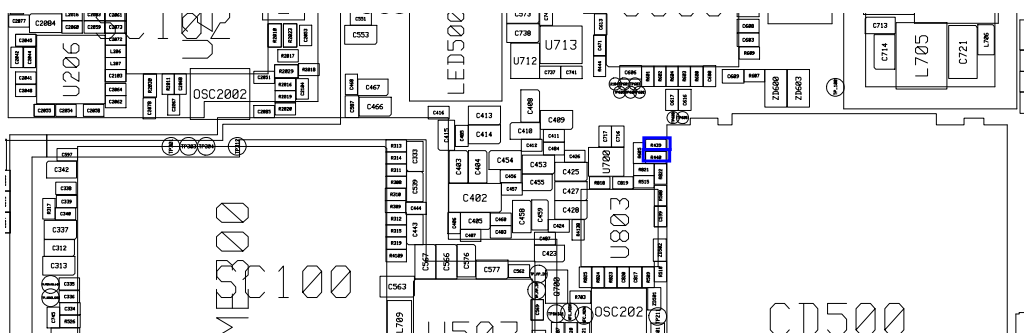
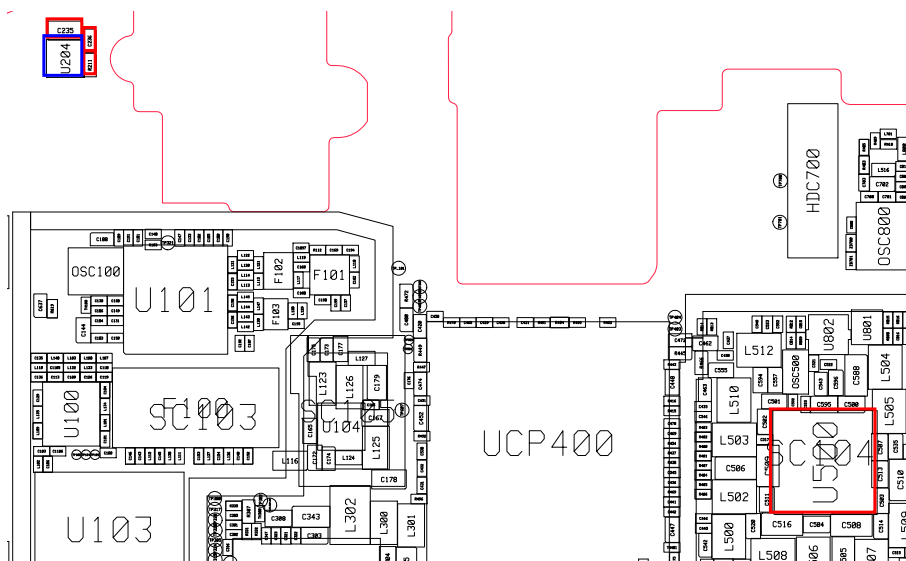
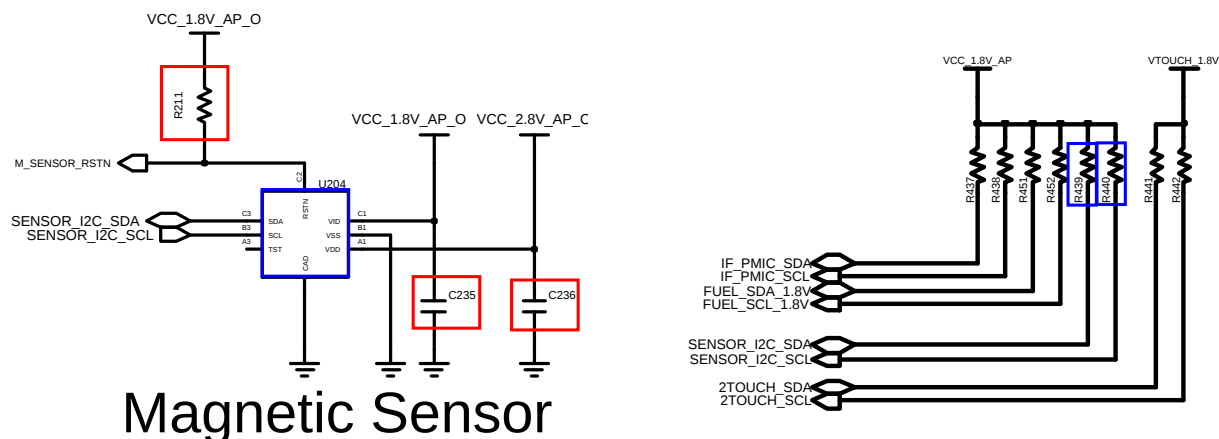


2. Light Sensor / Proximity Sensor

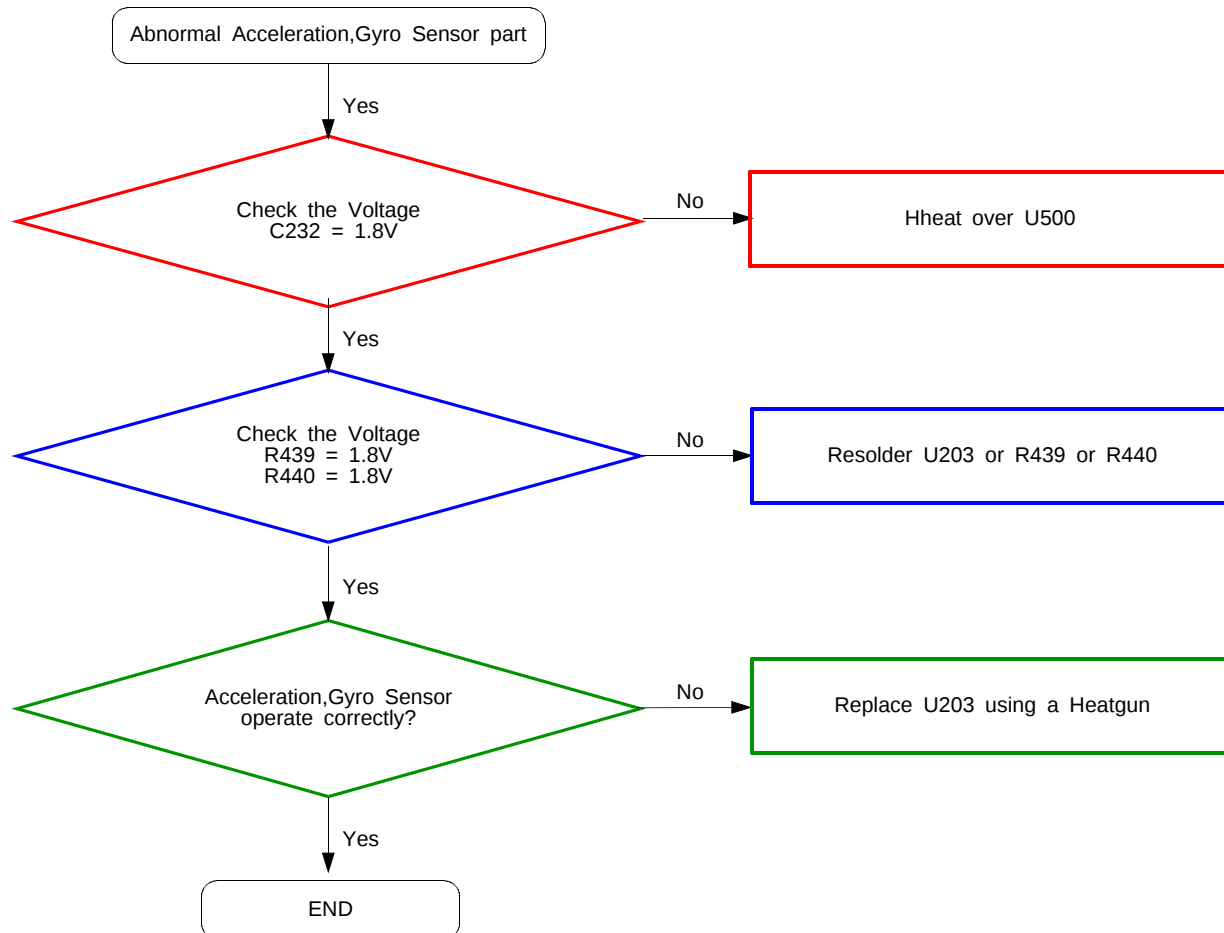


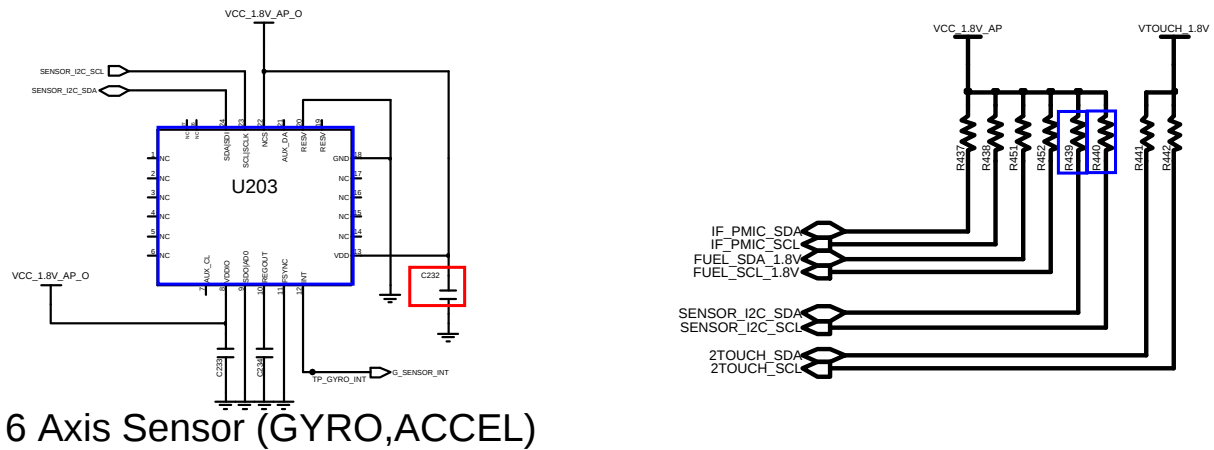
3. Magnetic Sensor



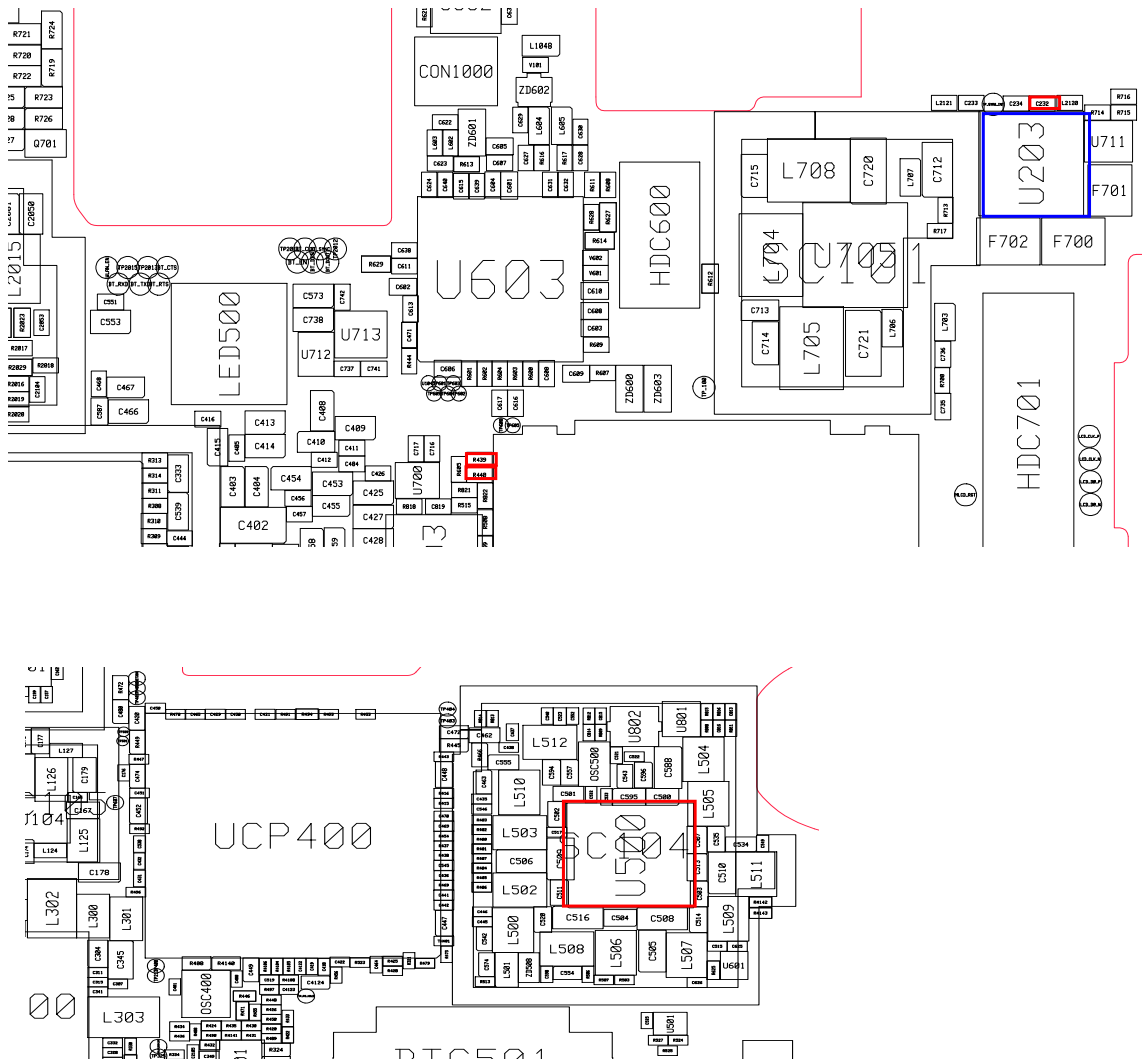


4. Acceleration , Gyro Sensor

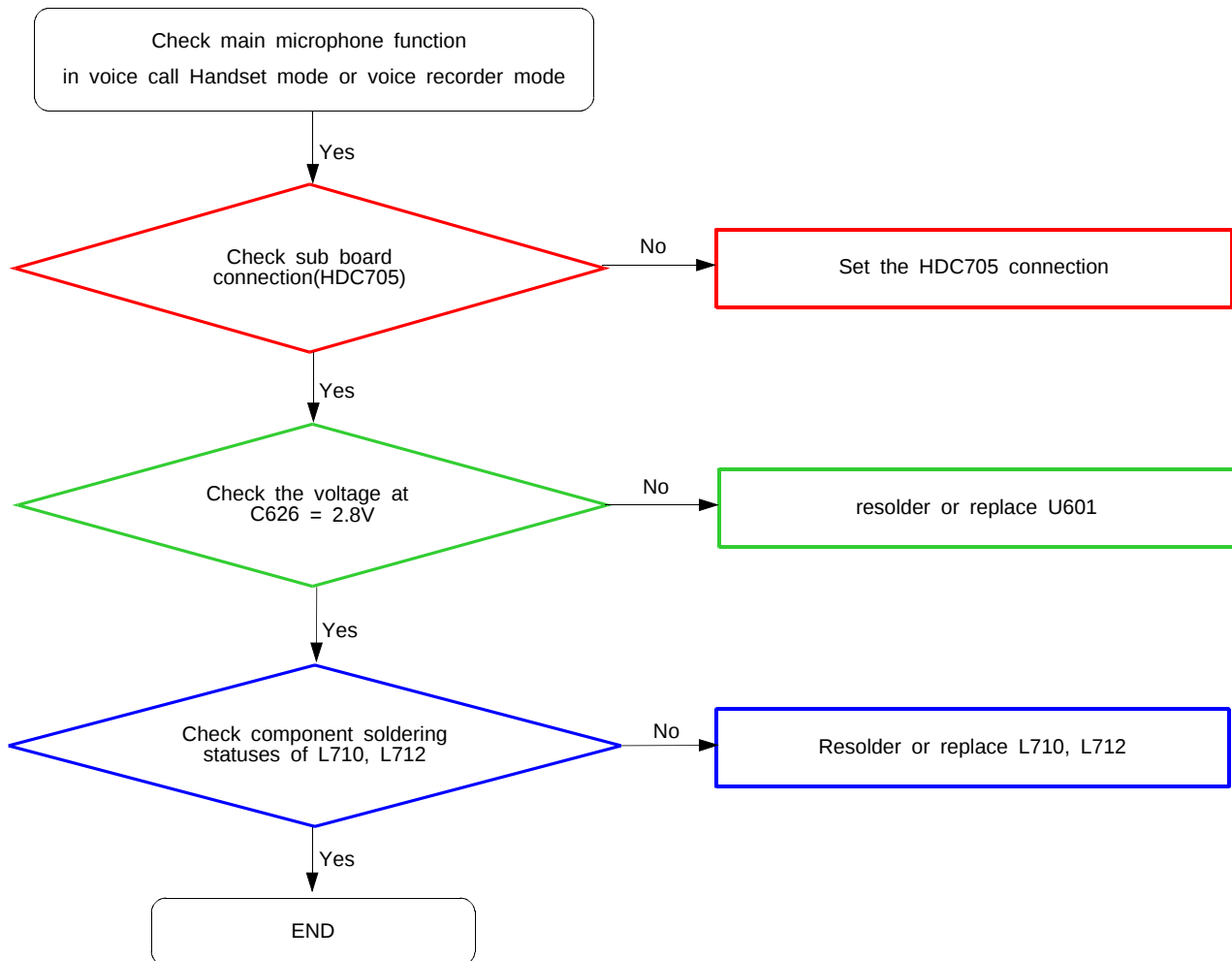


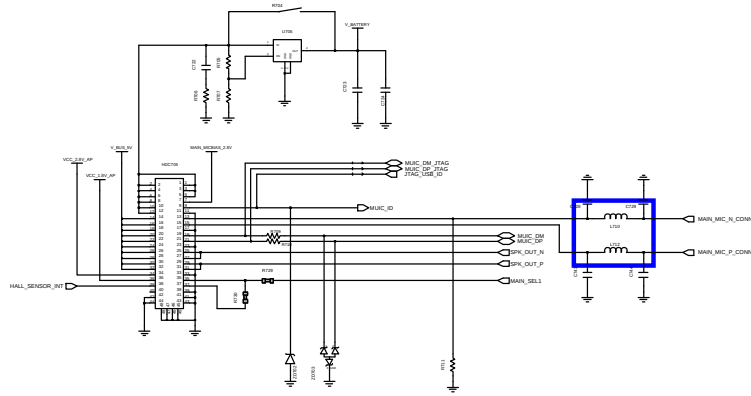


6 Axis Sensor (GYRO, ACCEL)

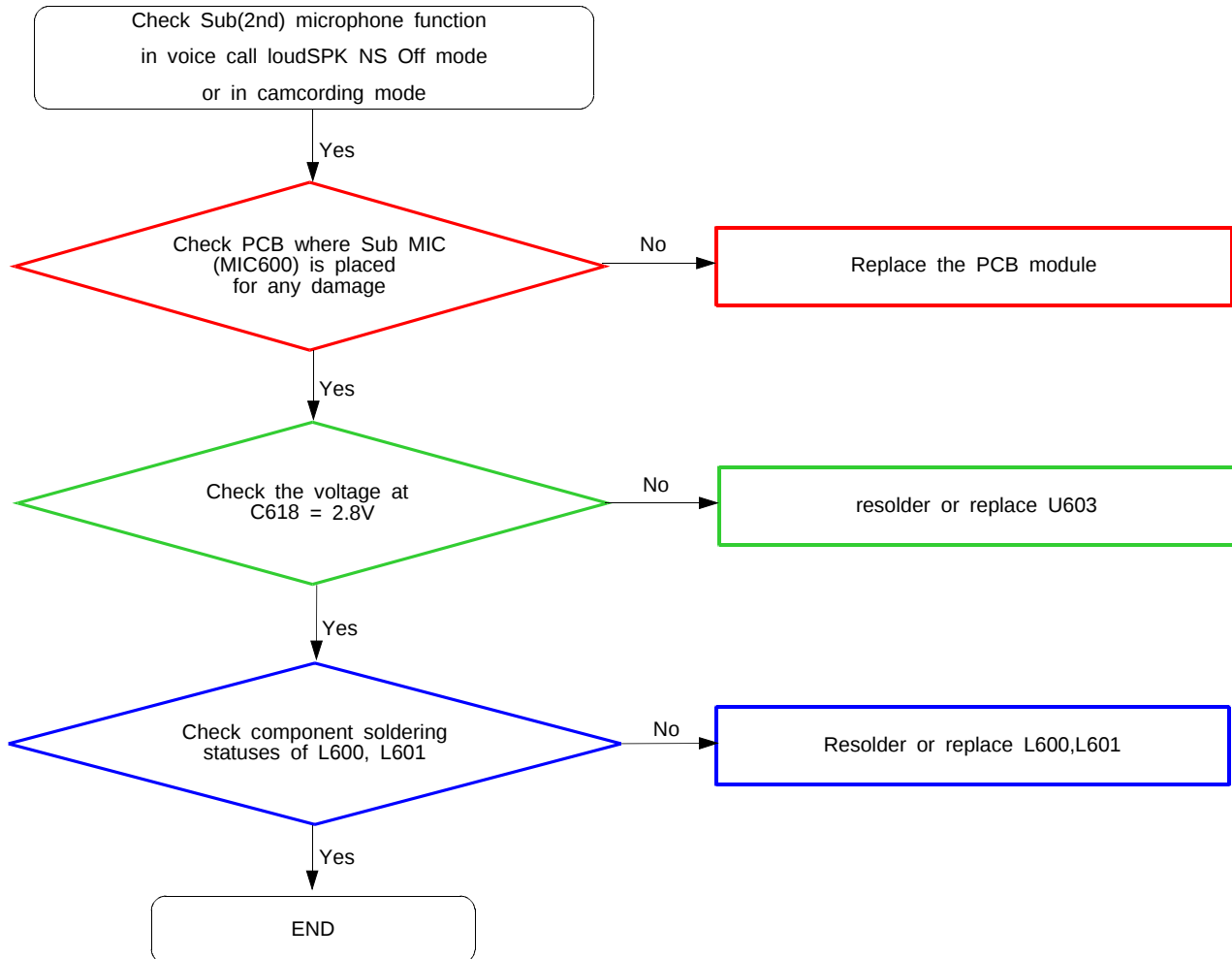


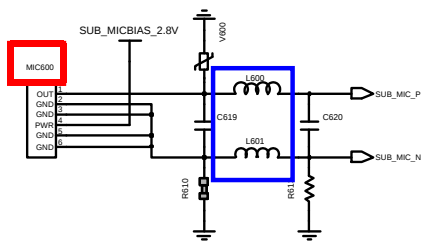
8-3-8-1 Microphone Part - Main MIC



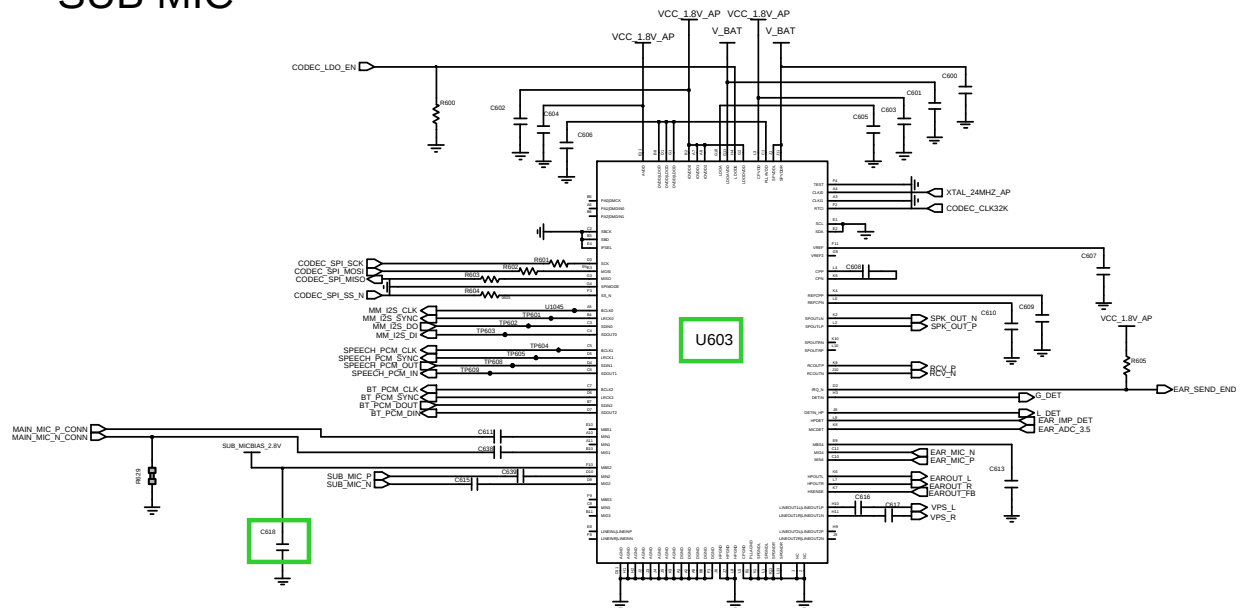


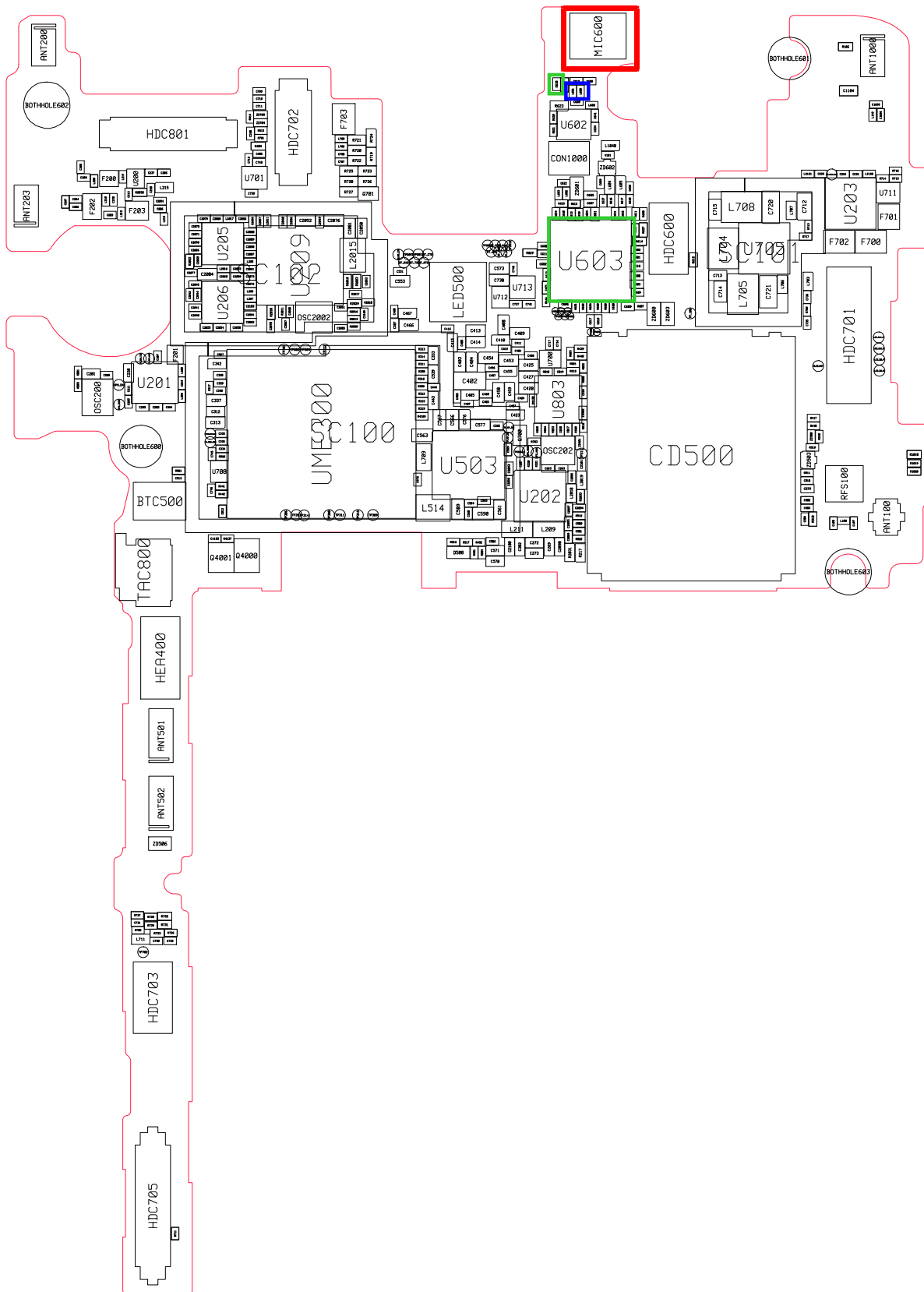
8-3-8-2. Microphone Part - Sub(2nd) MIC



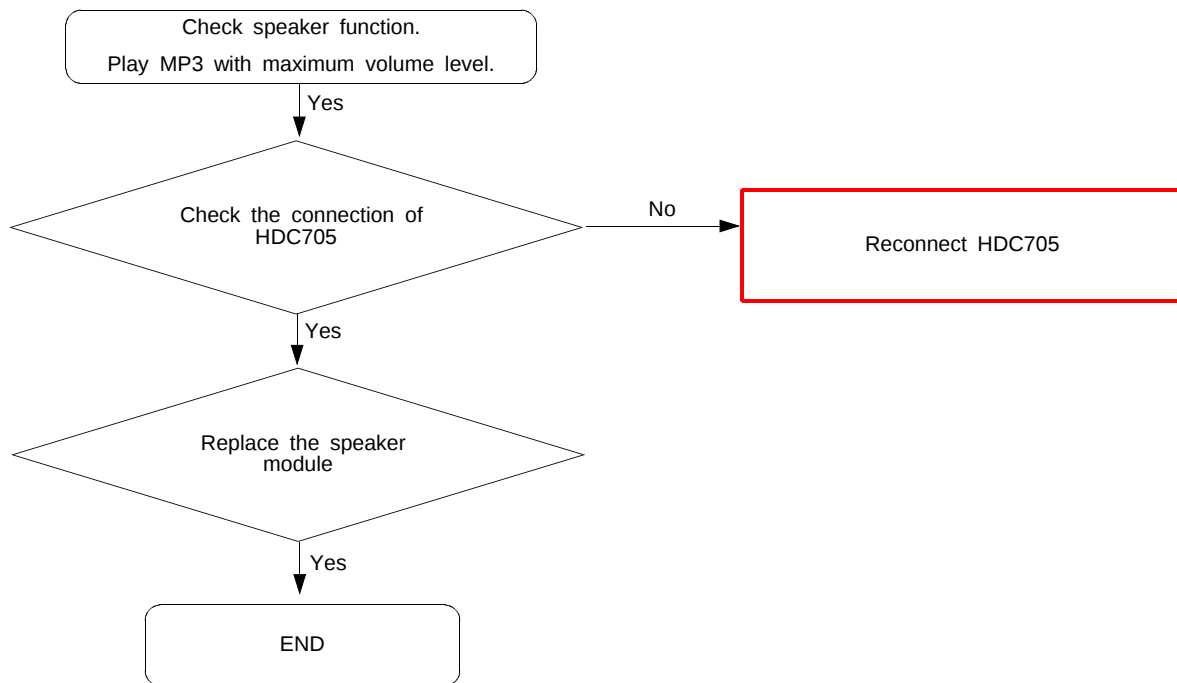


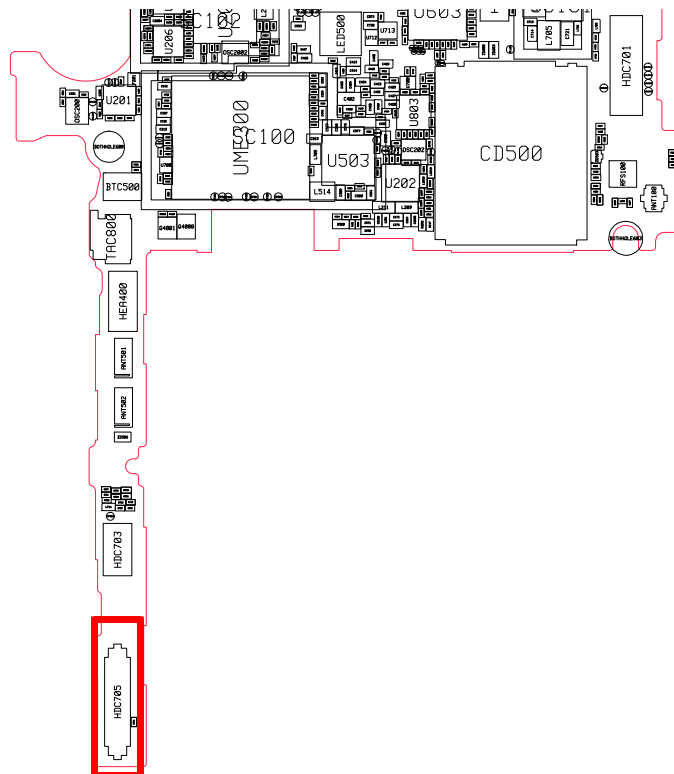
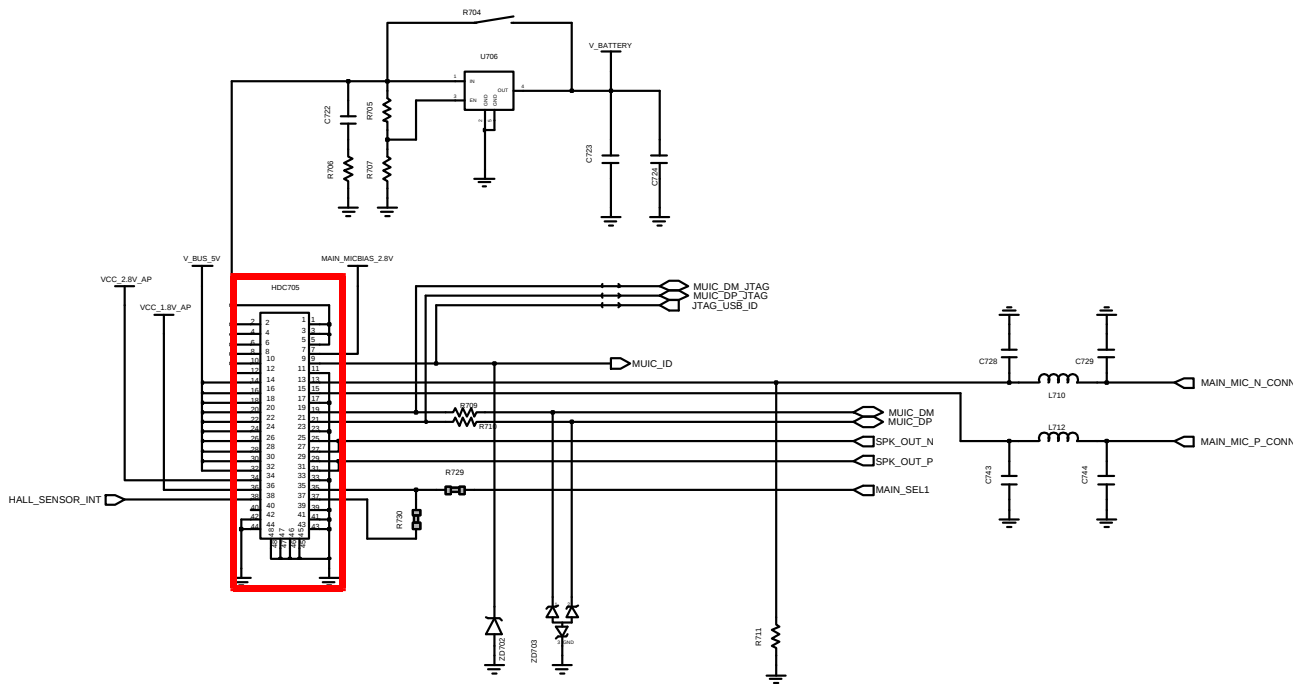
SUB MIC



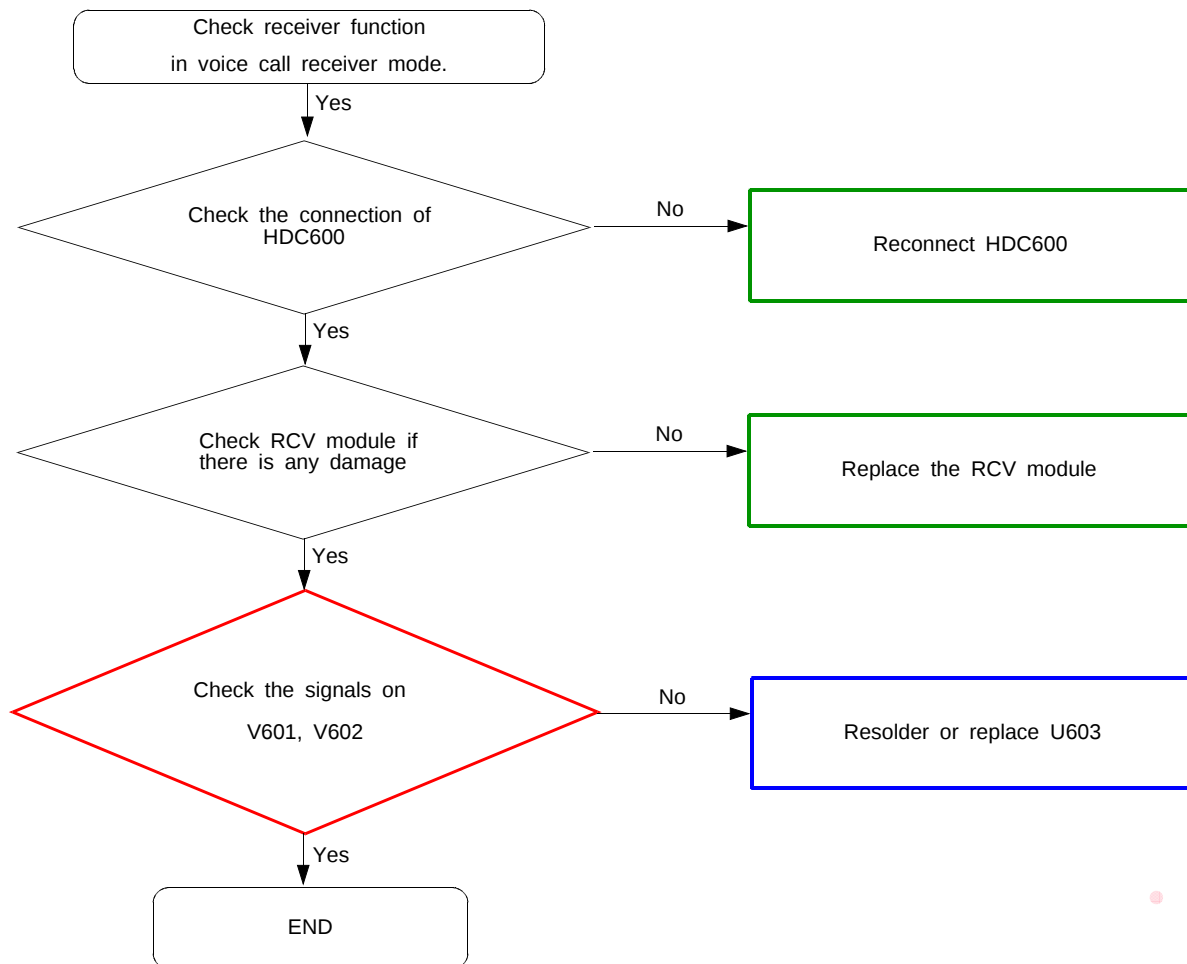


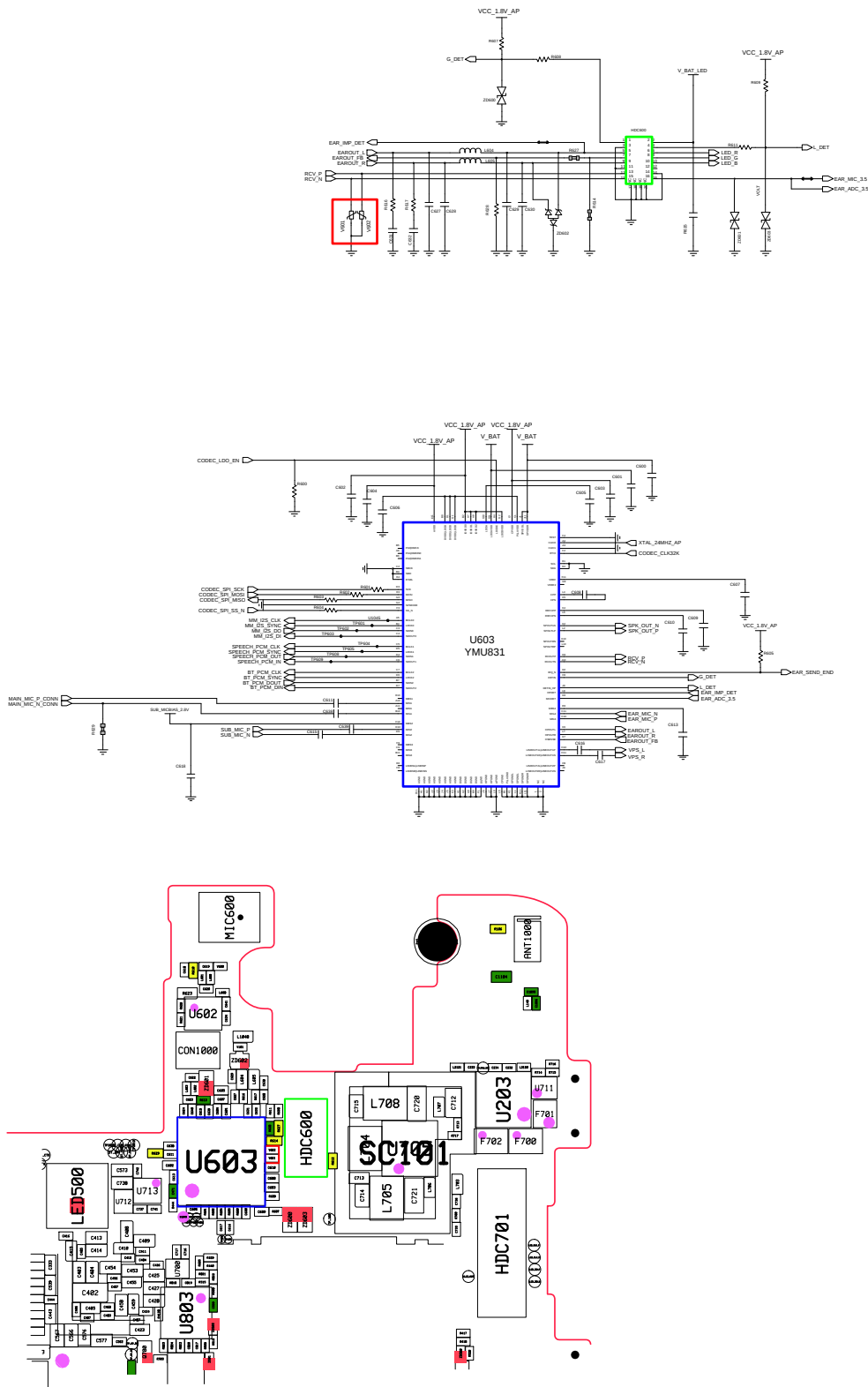
8-3-9. Speaker Part



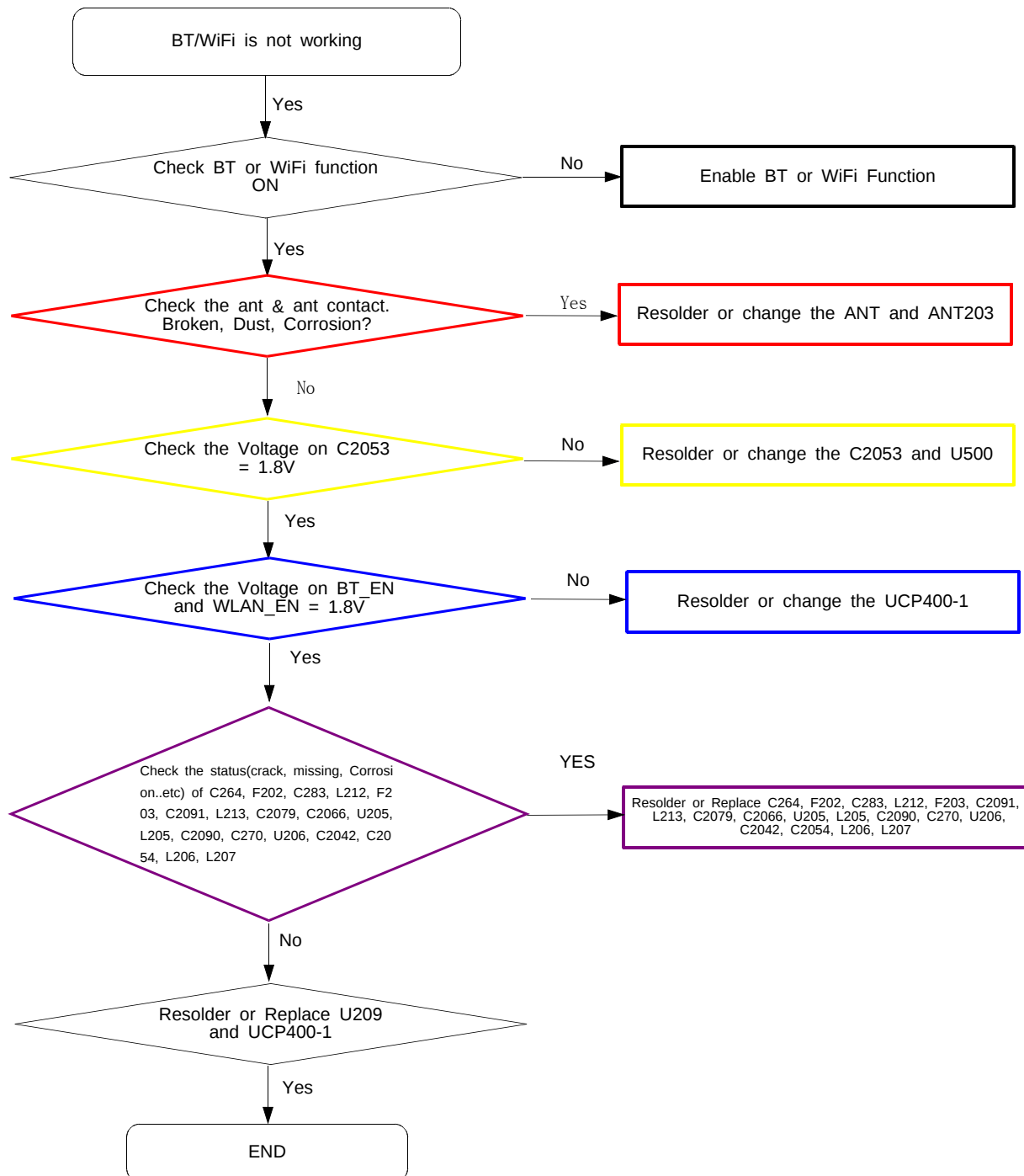


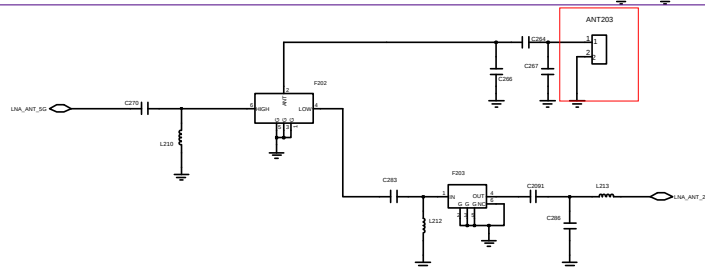
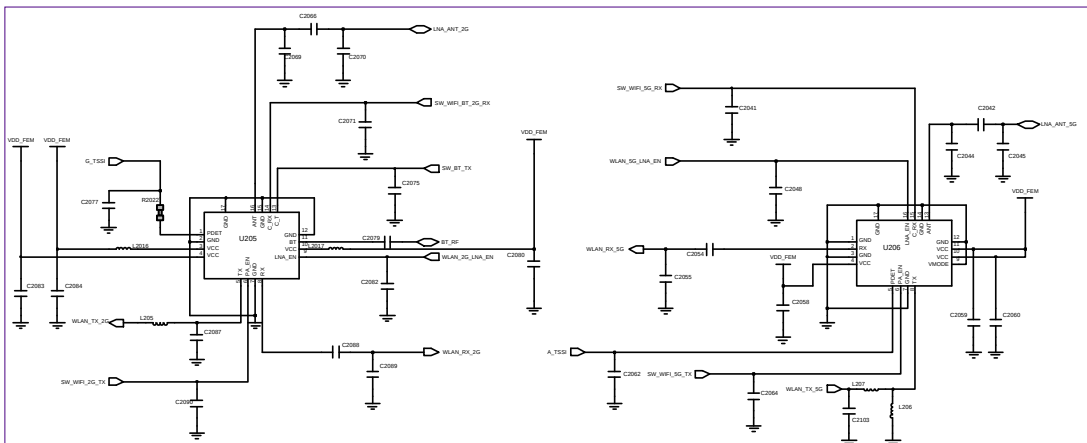
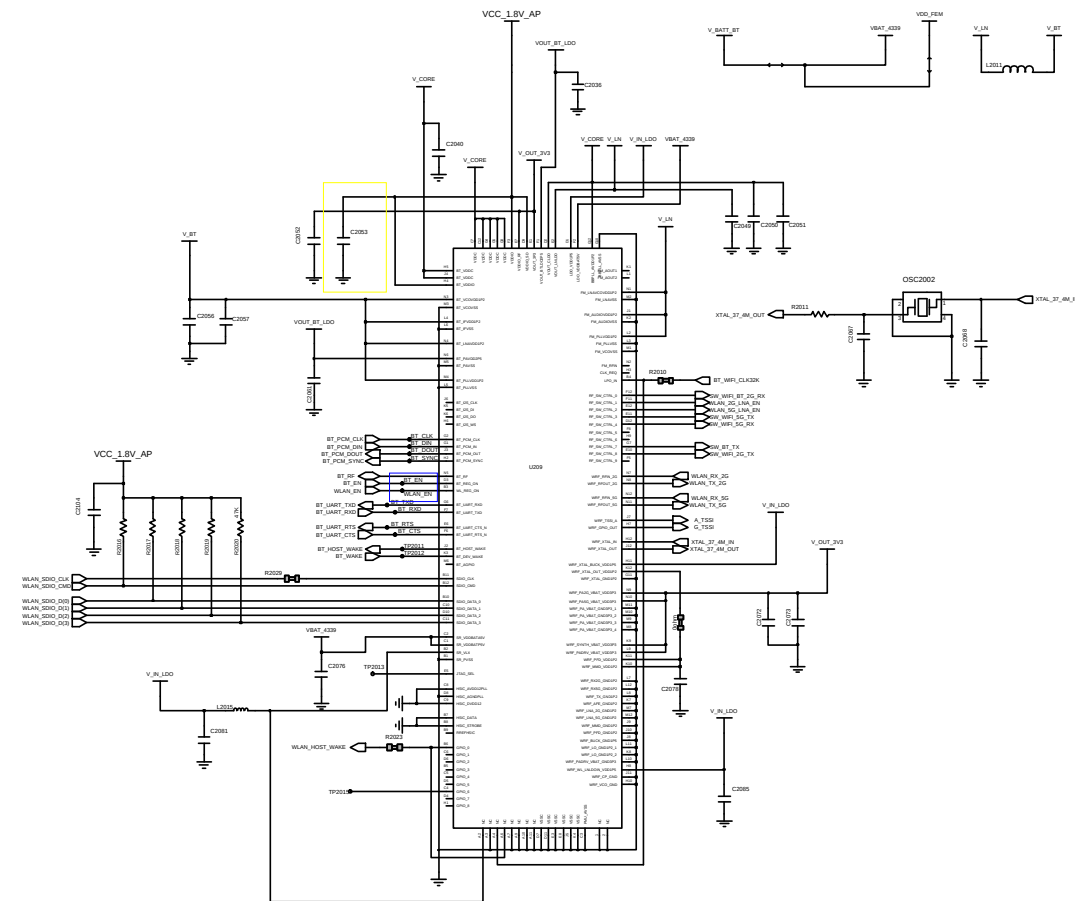
8-3-10. Receiver Part

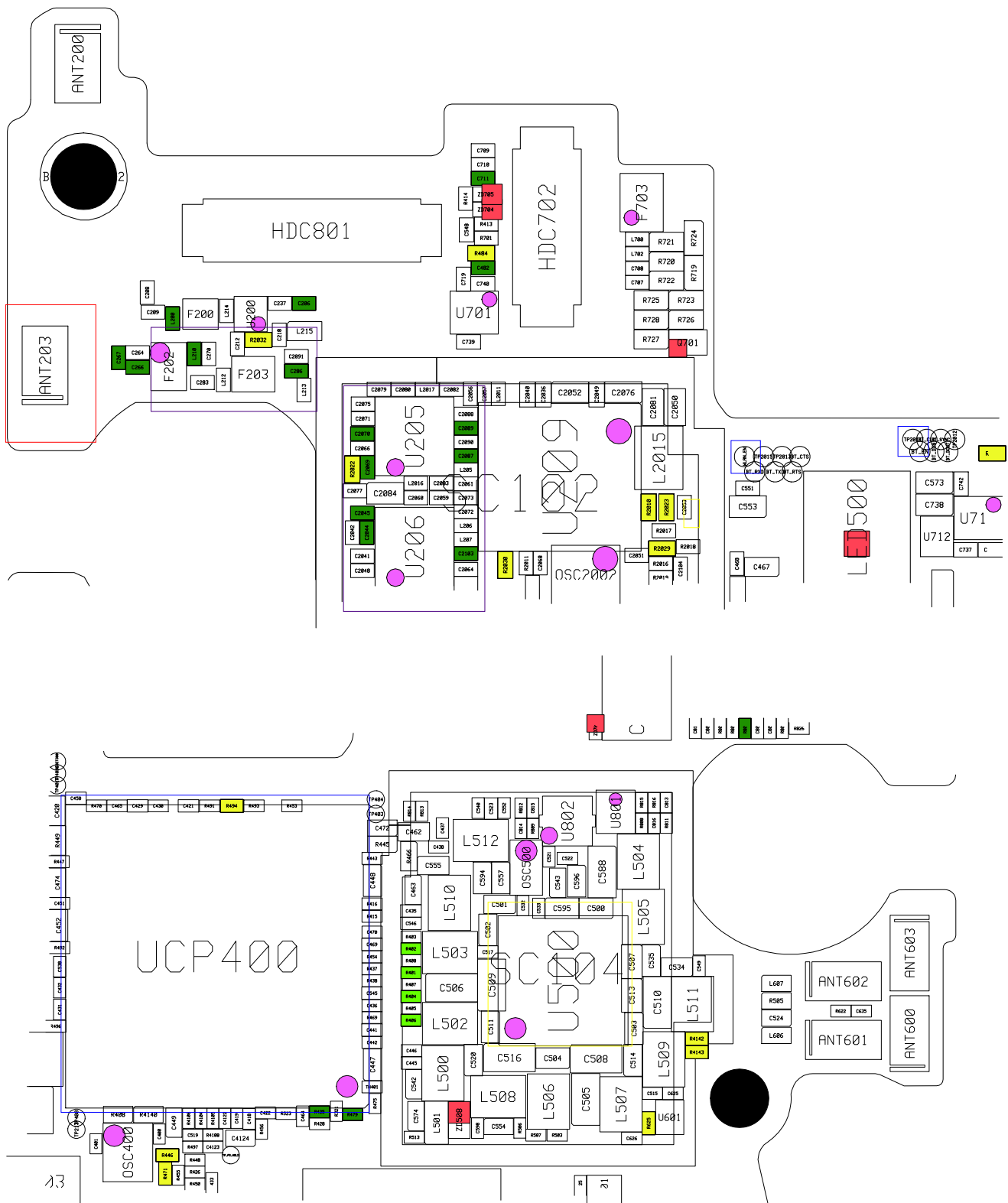




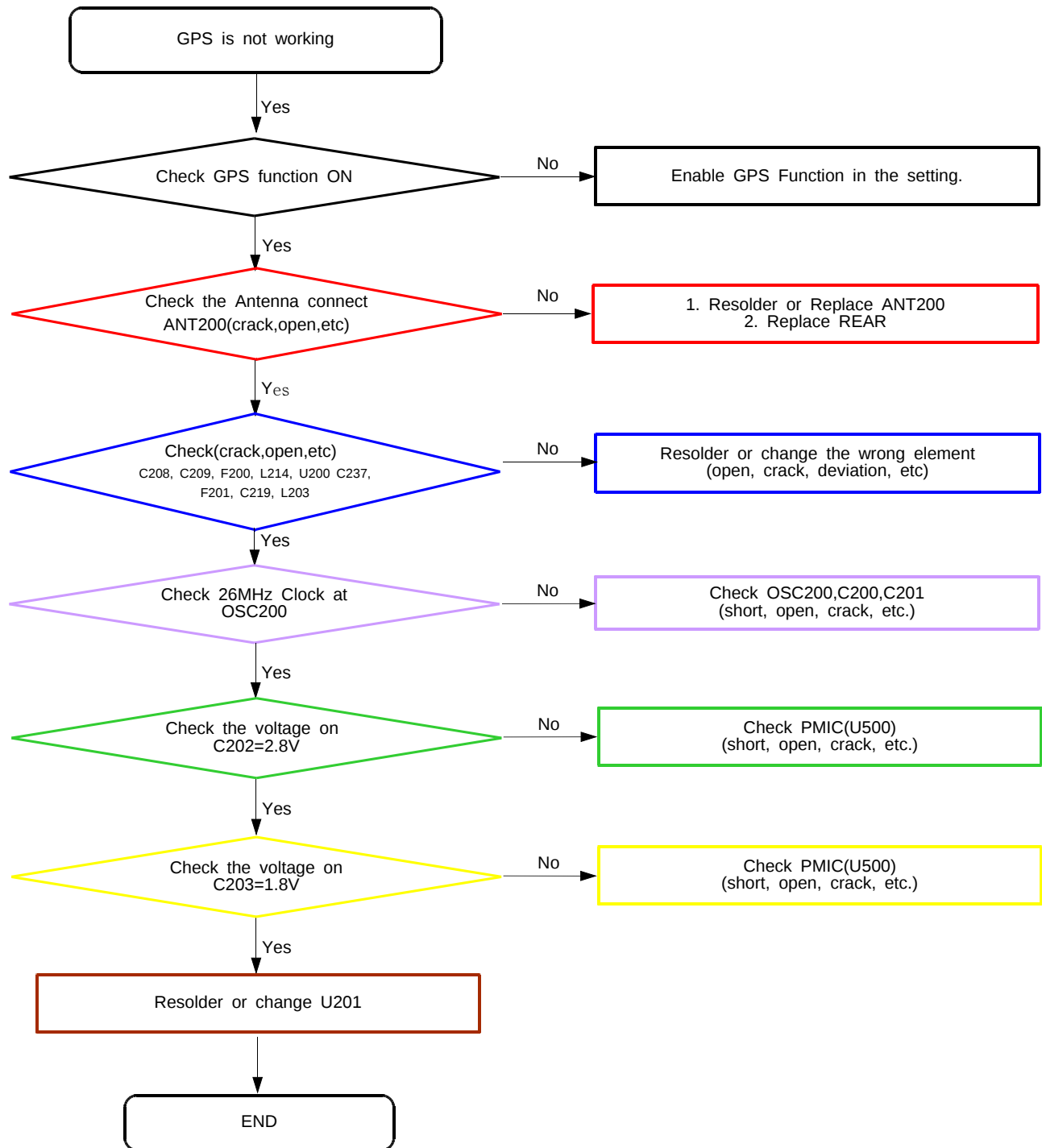
8-3-11. BT/WIFI

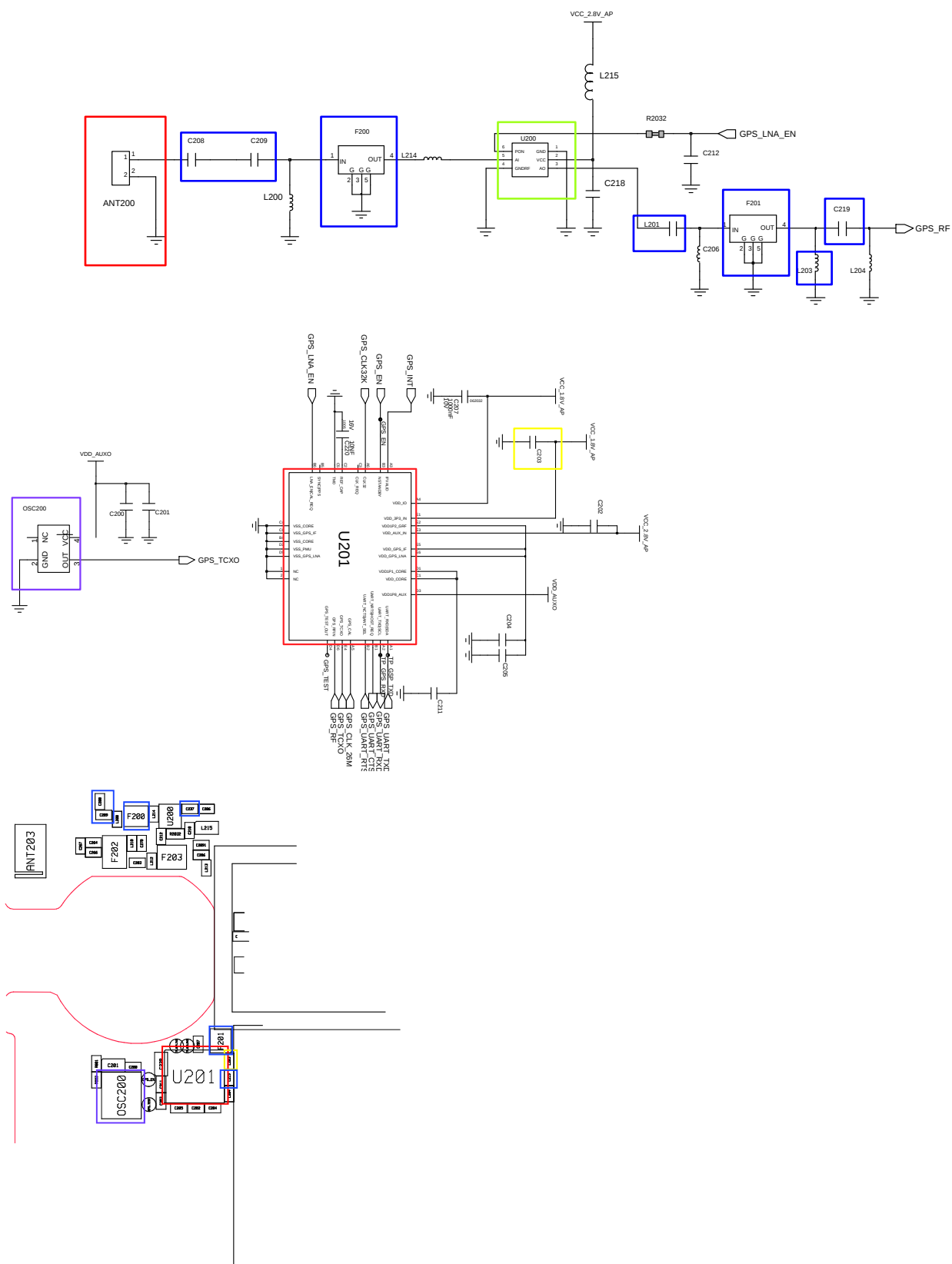




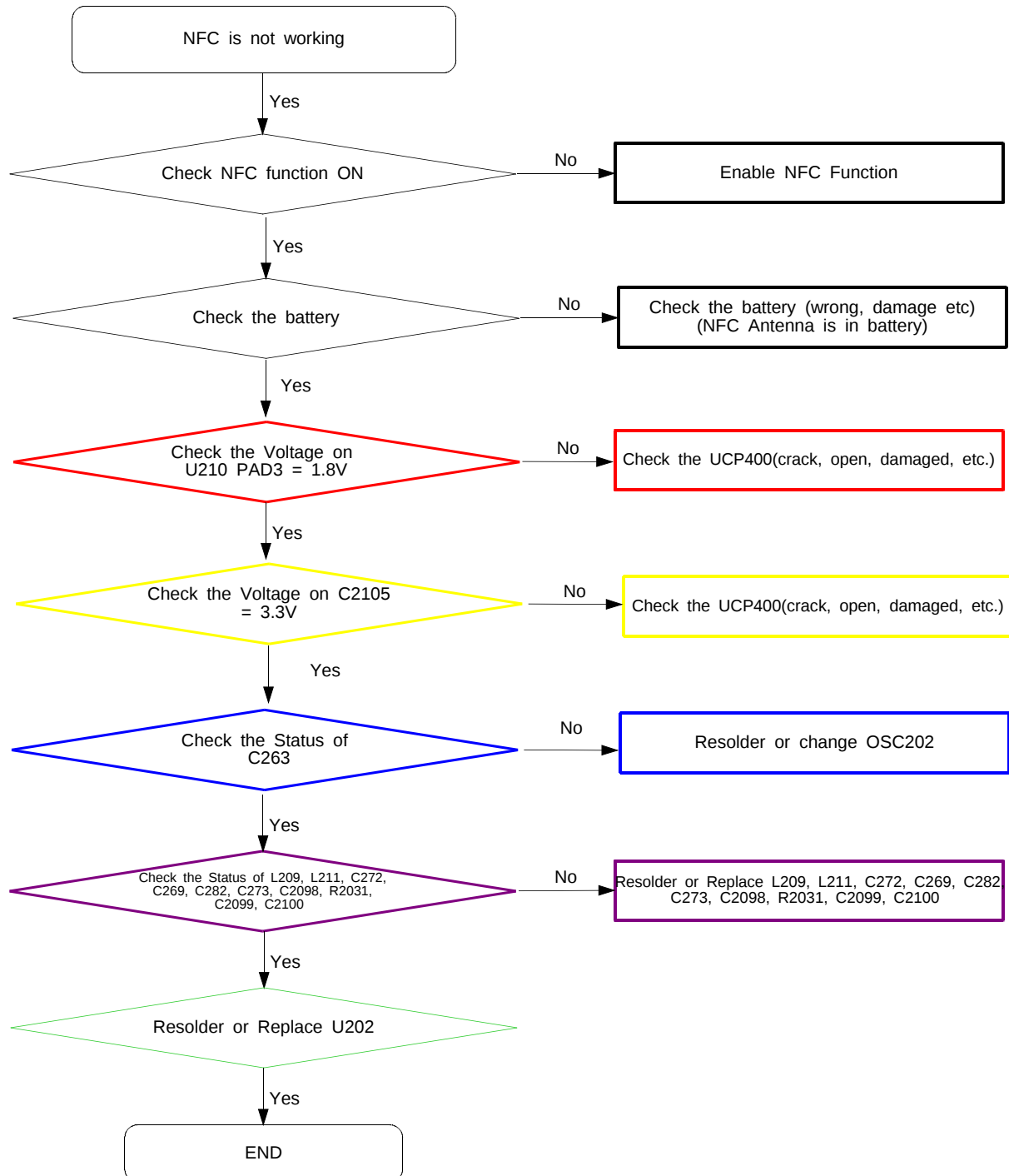


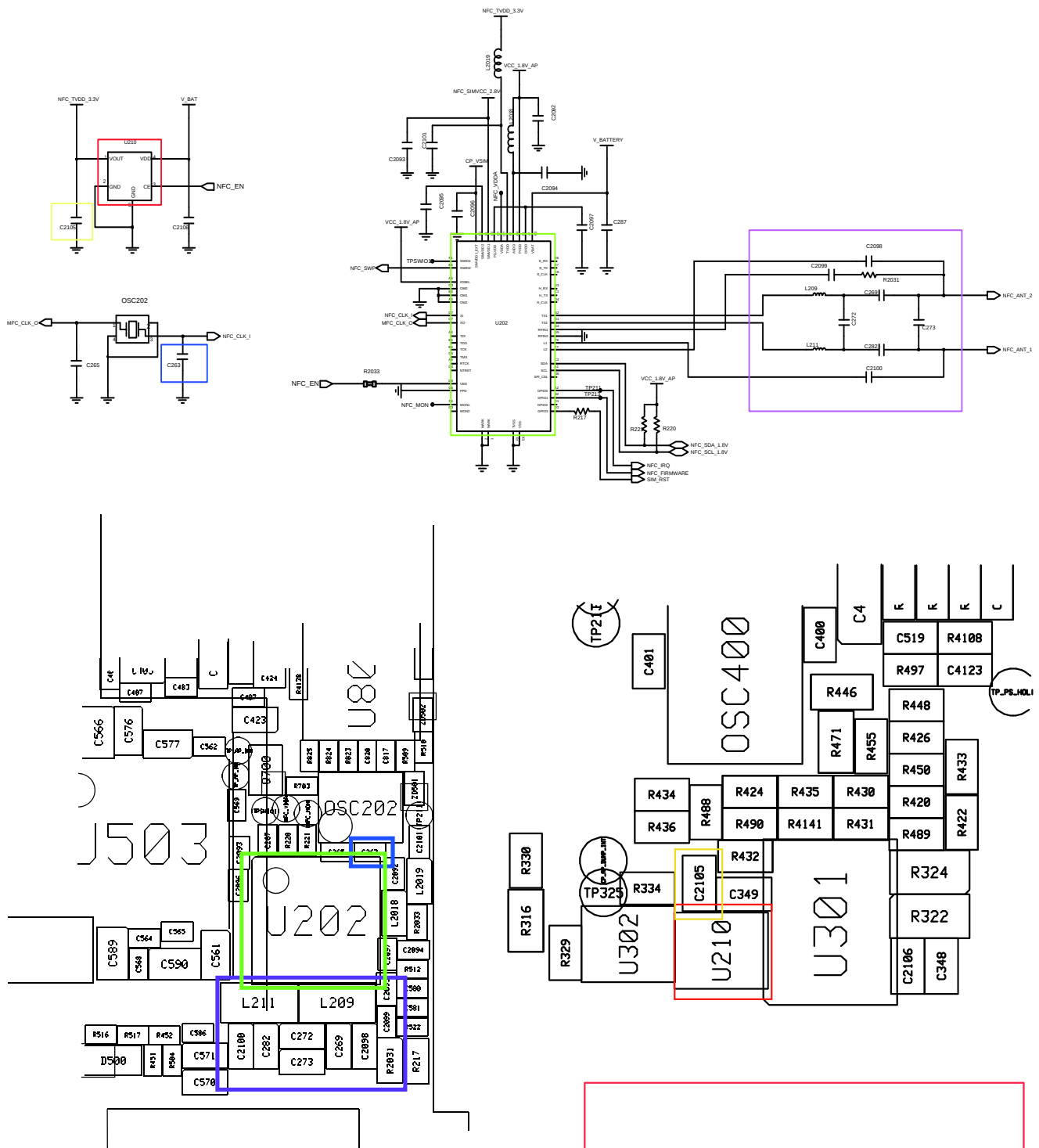
8-3-12. GPS



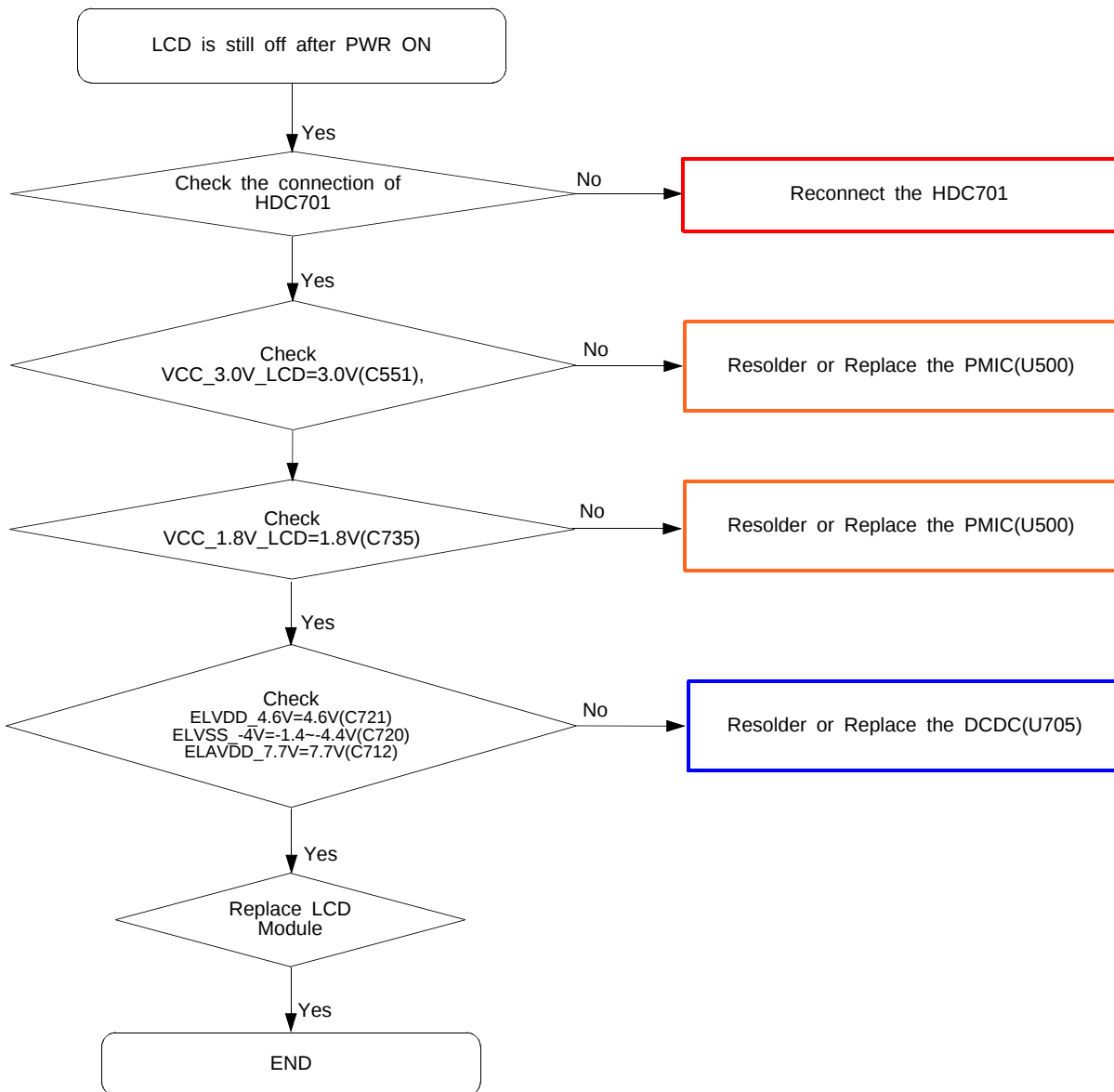


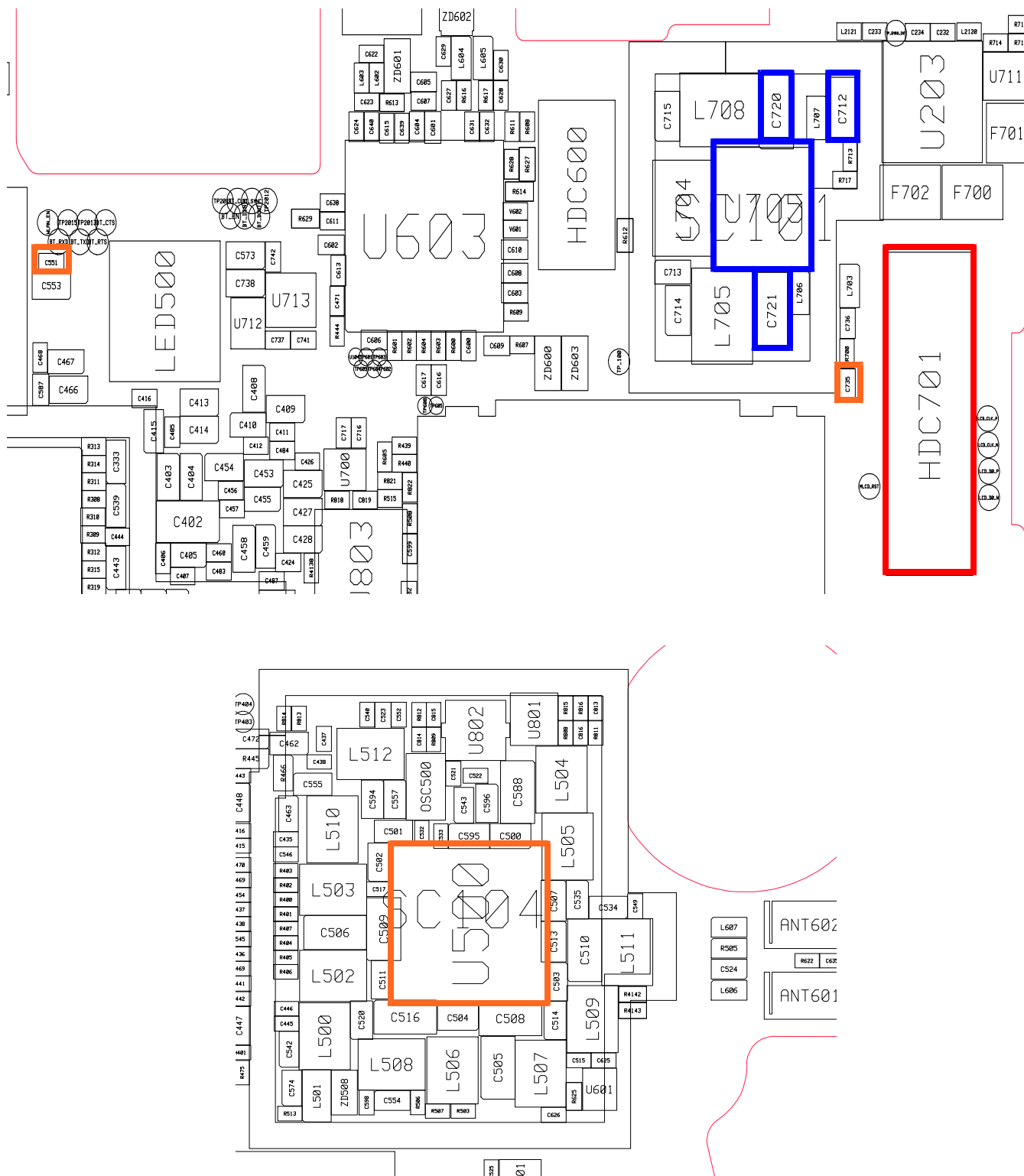
8-3-13. NFC



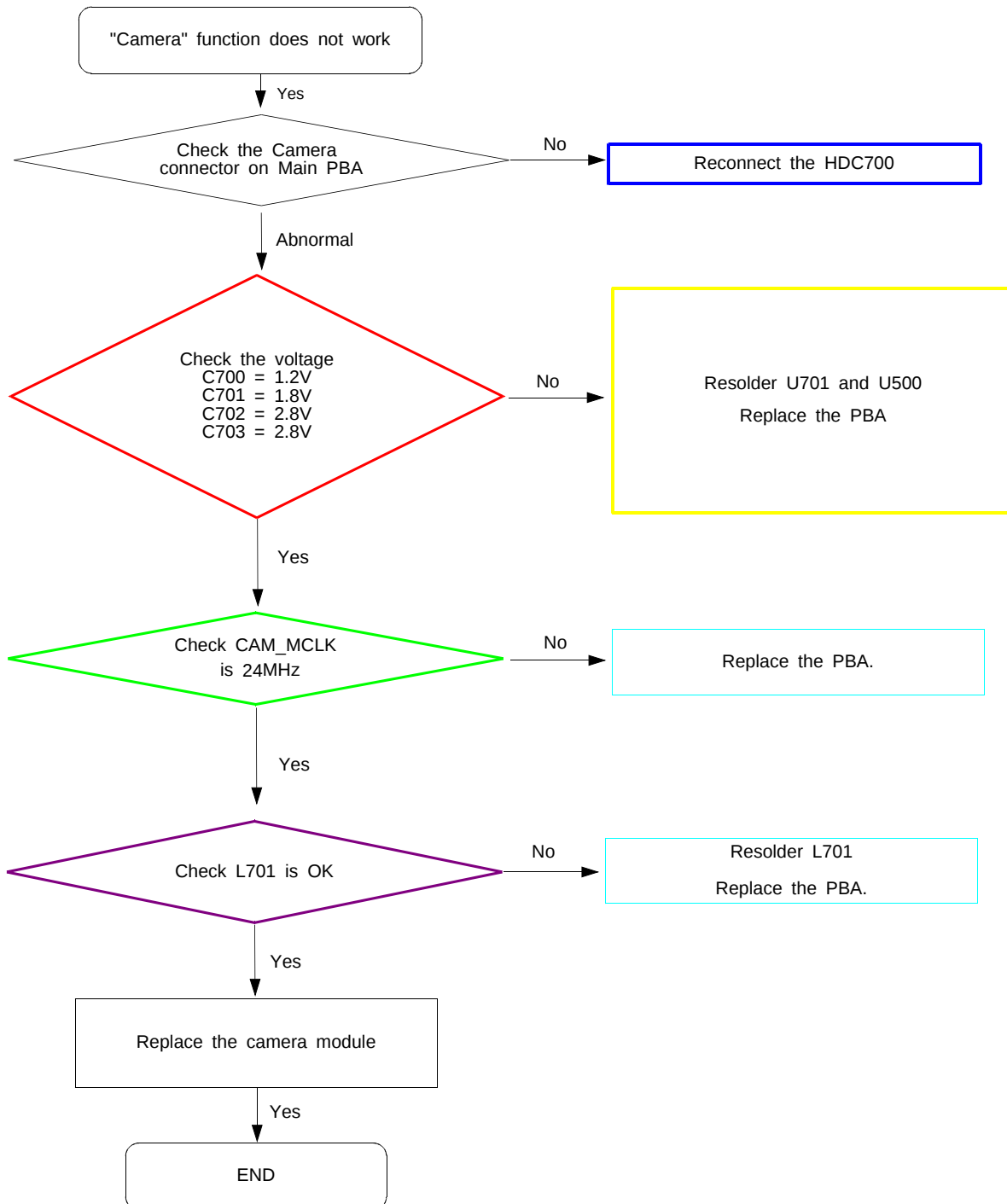


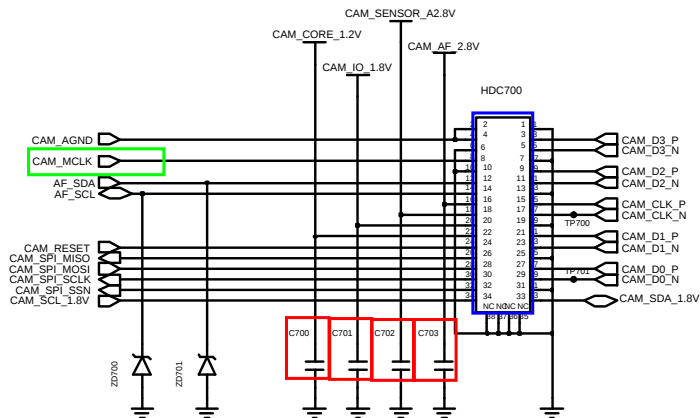
8-3-14. LCD



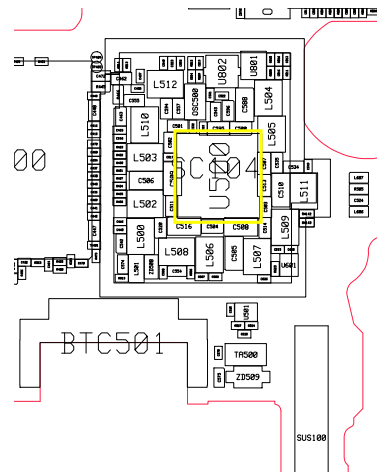
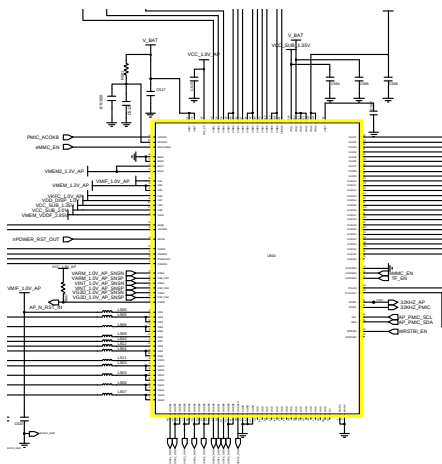
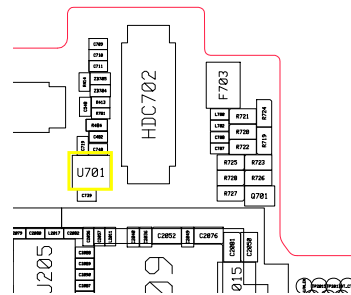
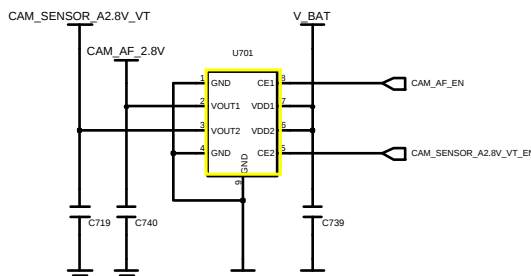
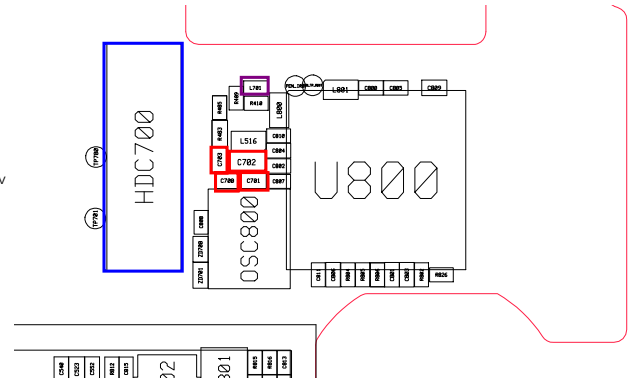


8-3-15. 8M CAM

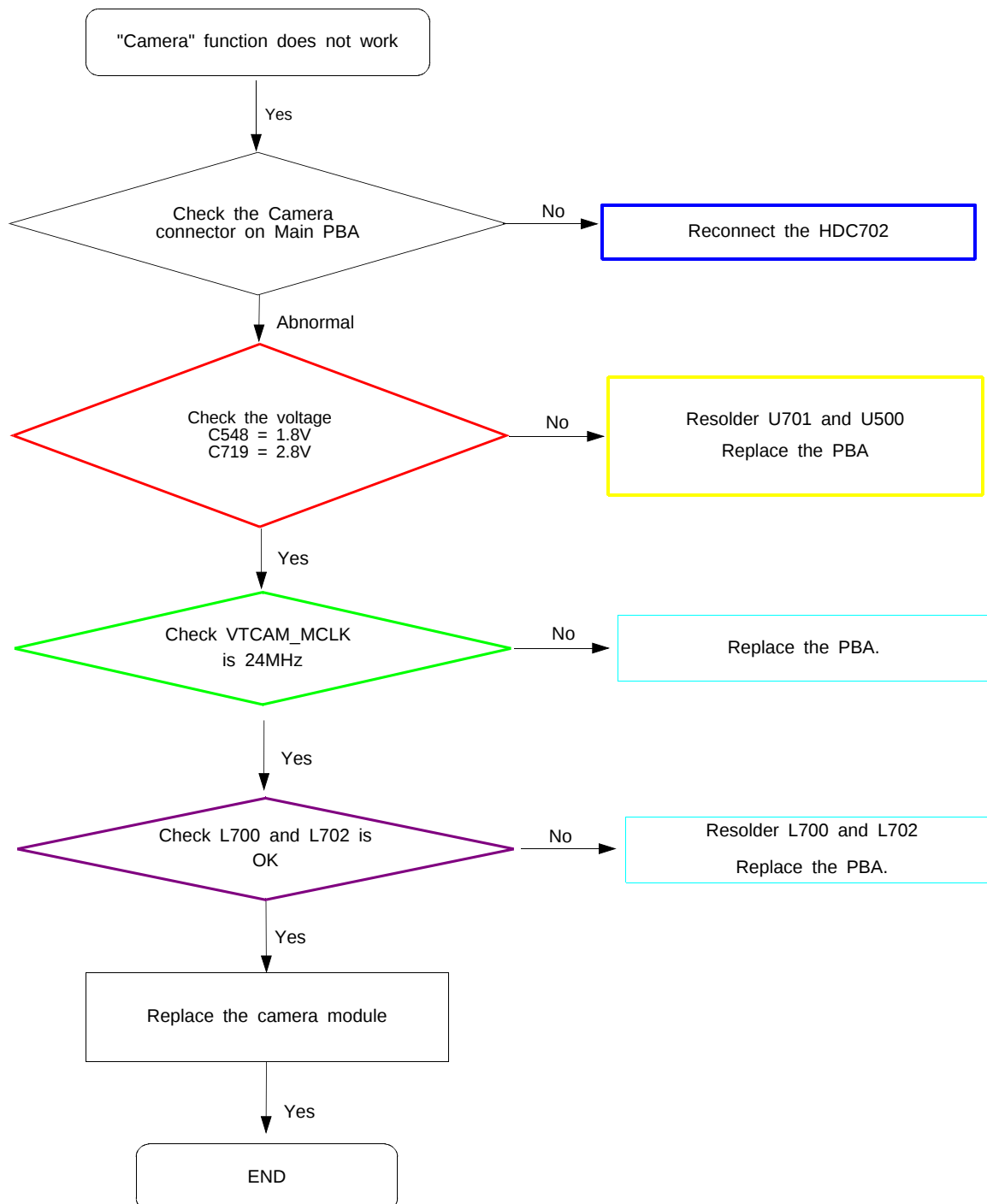


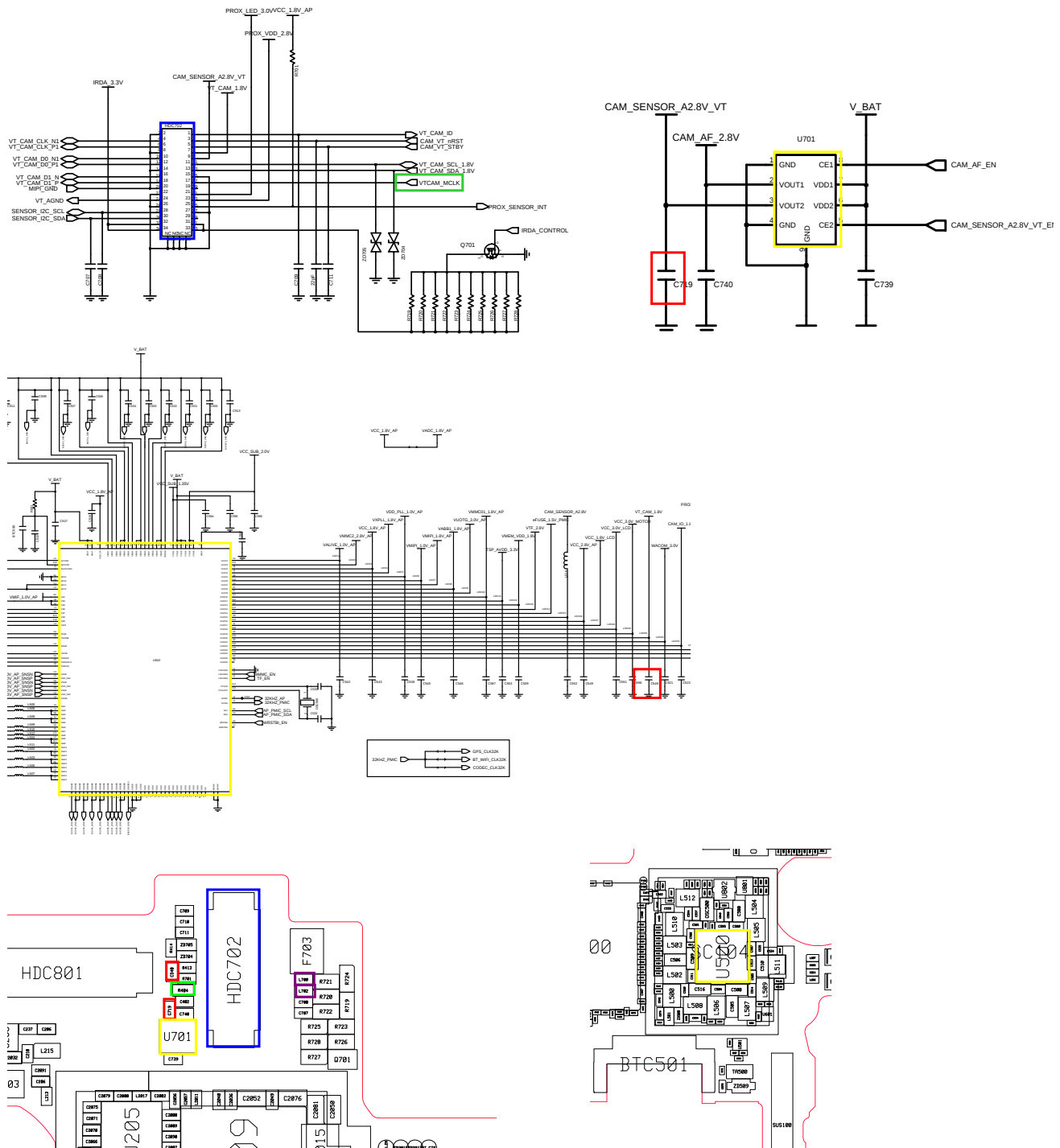


8M_Camera Connector (MIPI)

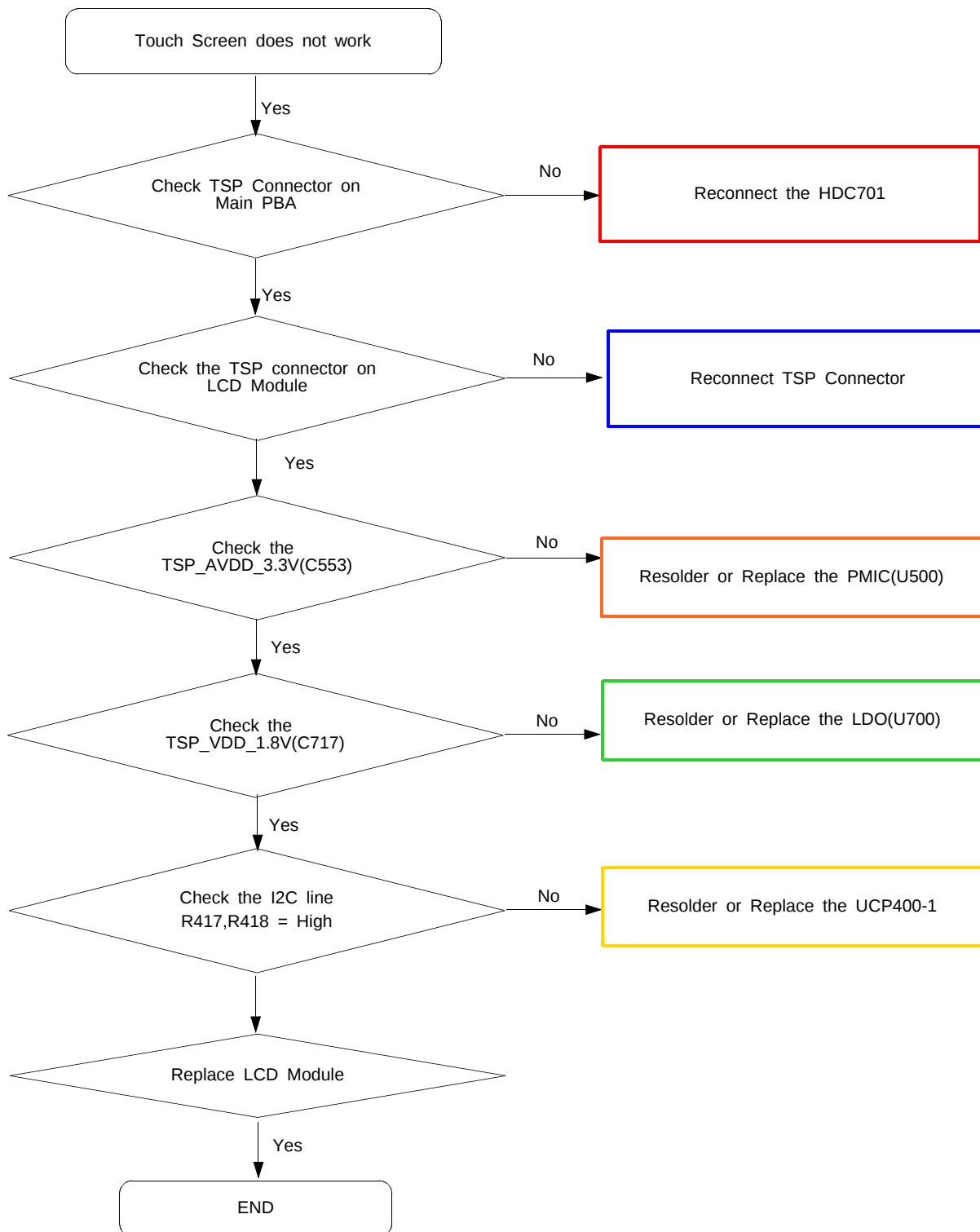


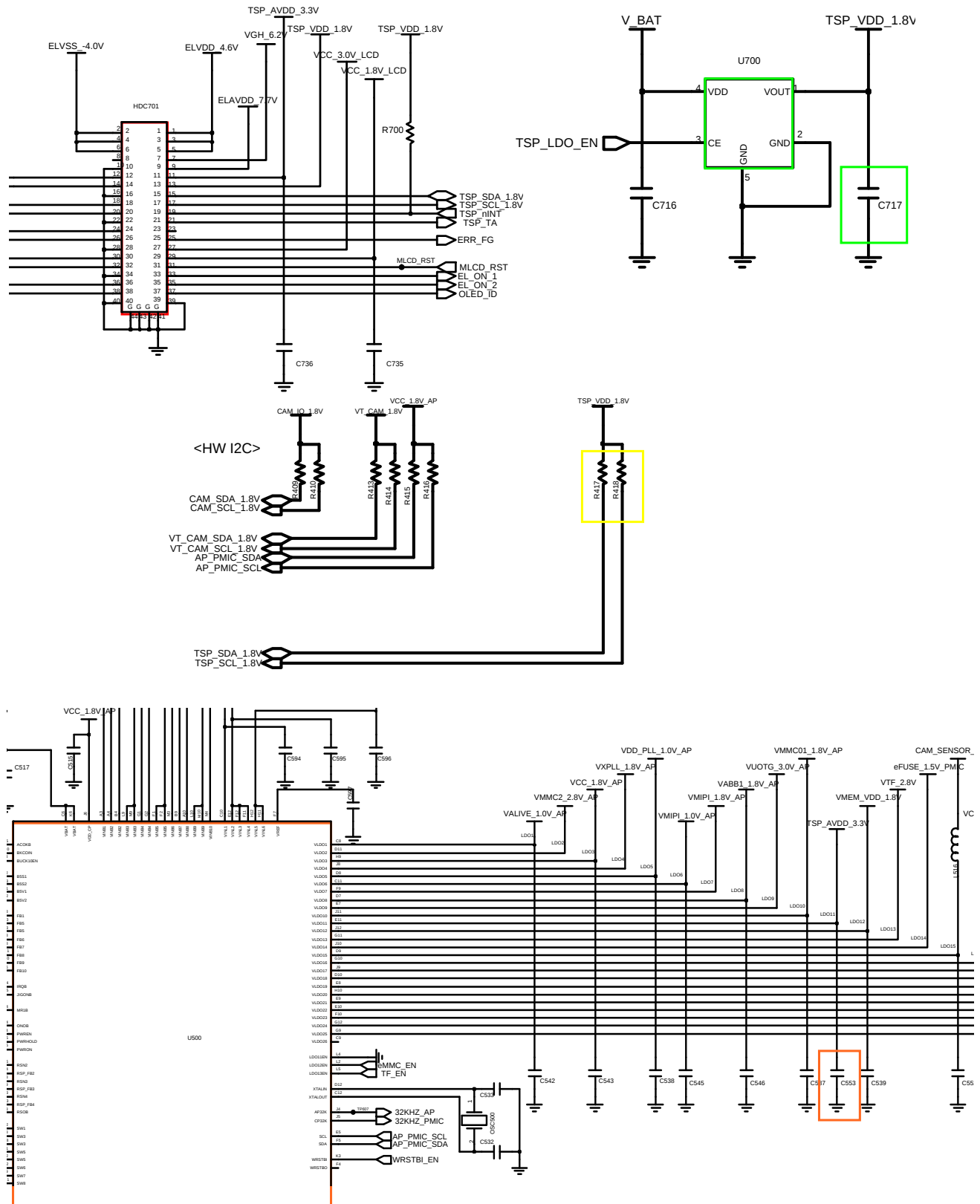
8-3-16. VT CAM

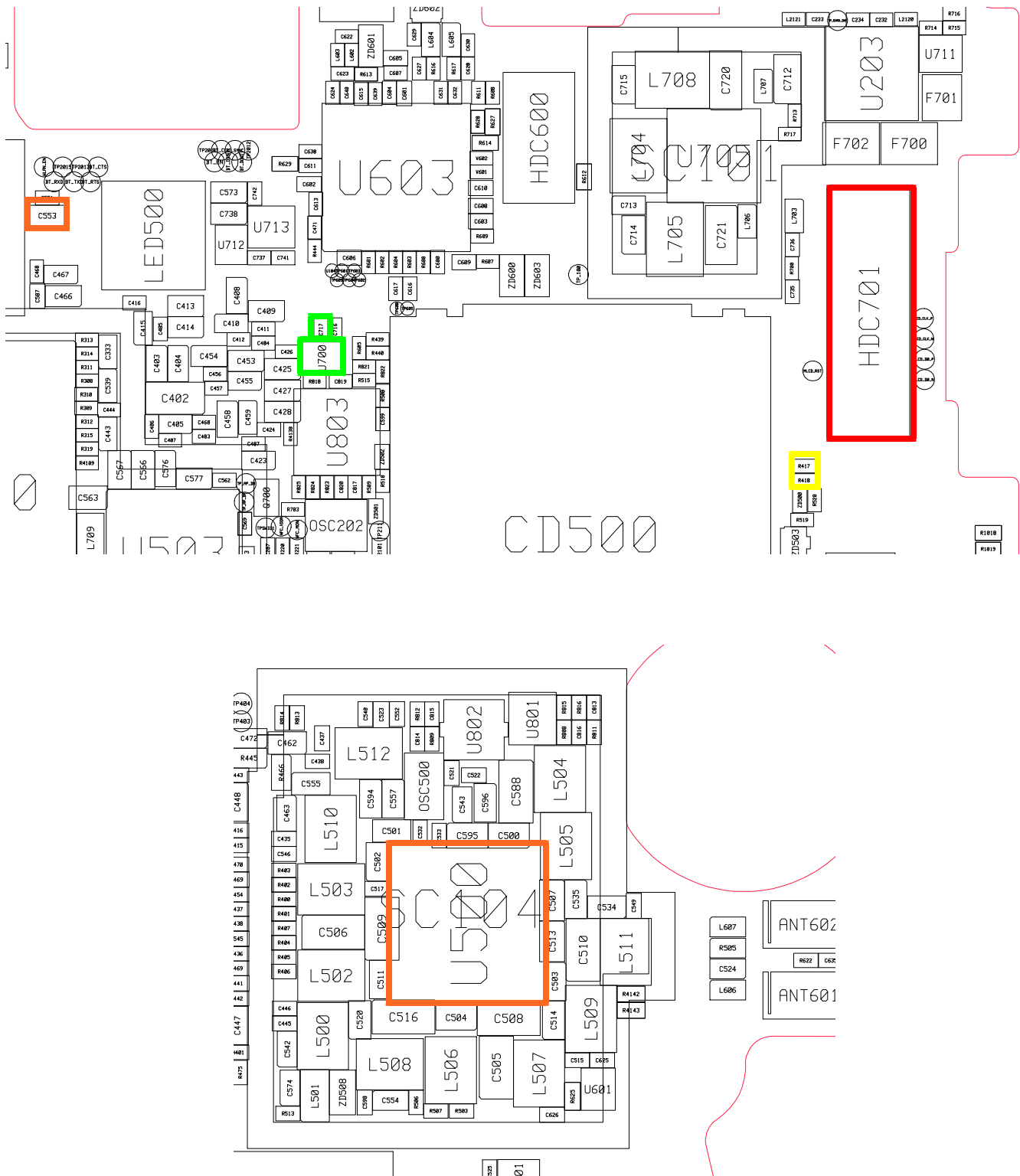




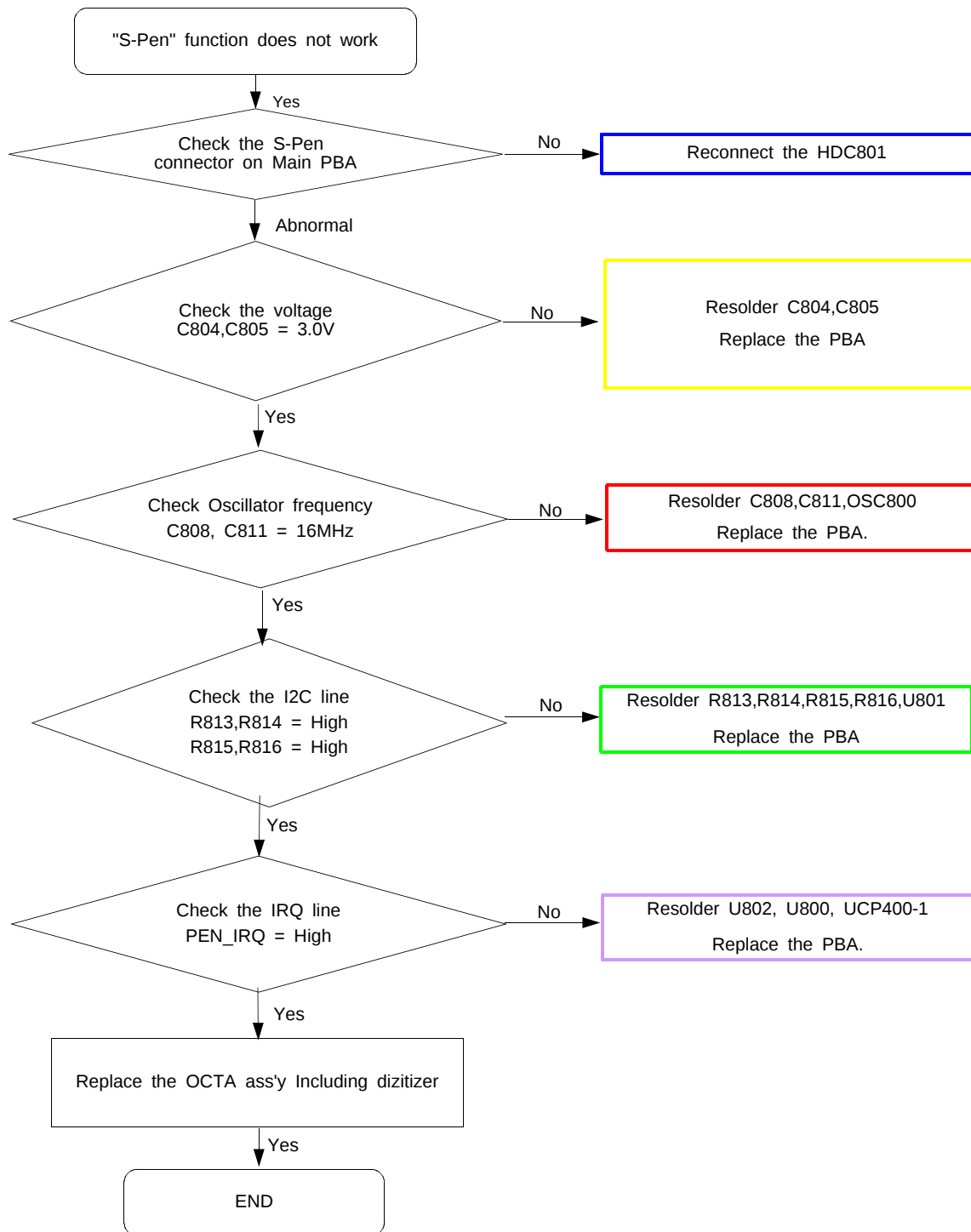
8-3-17. TSP

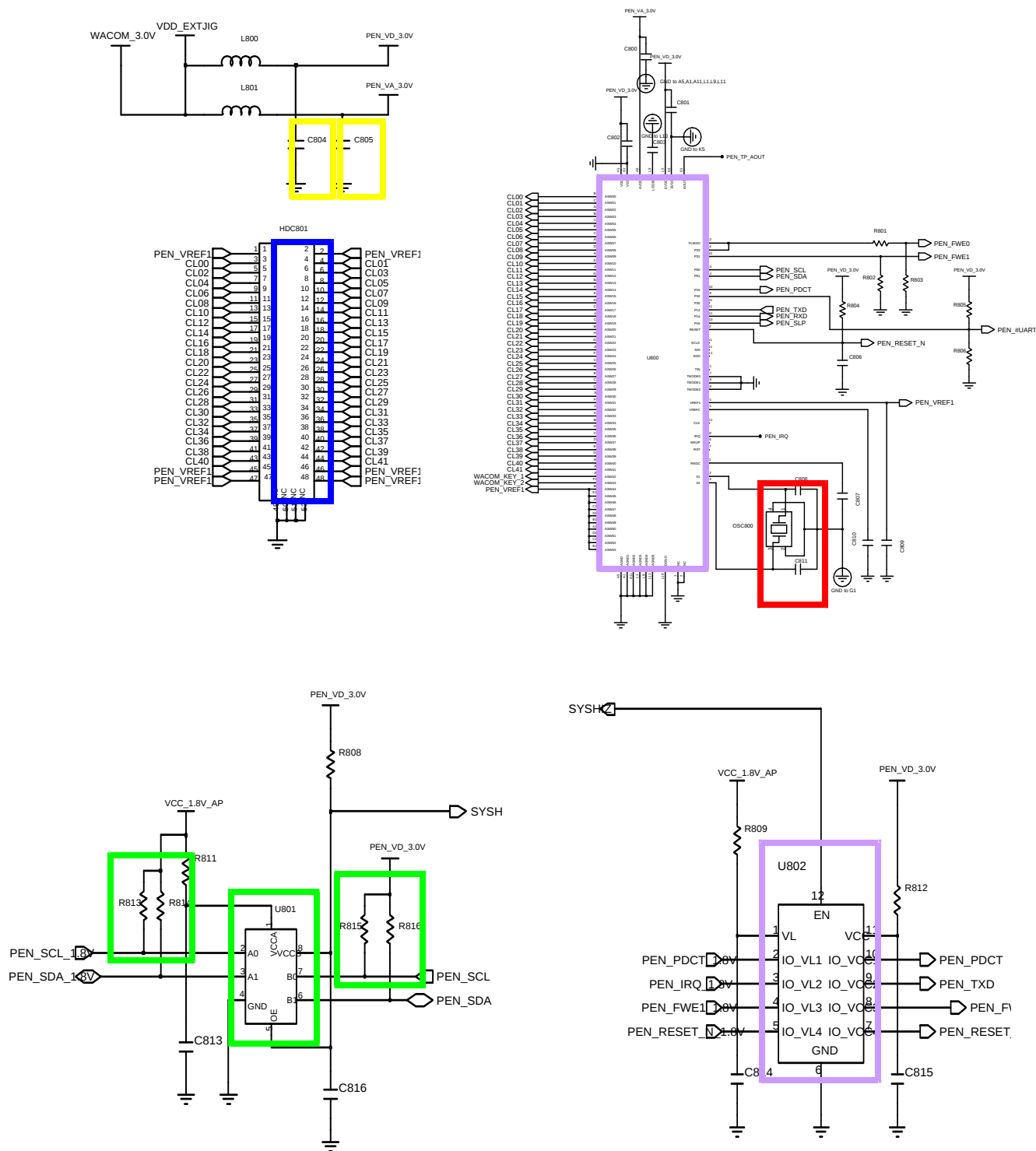


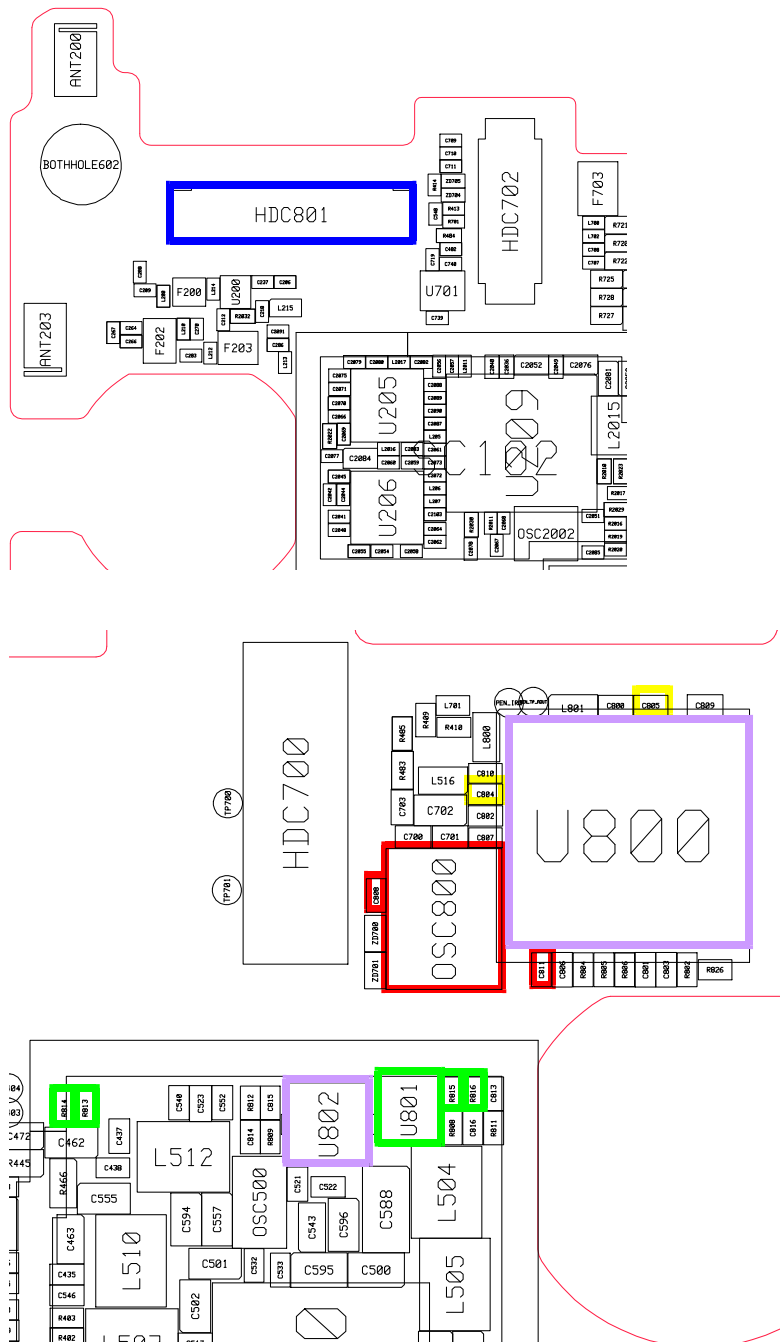




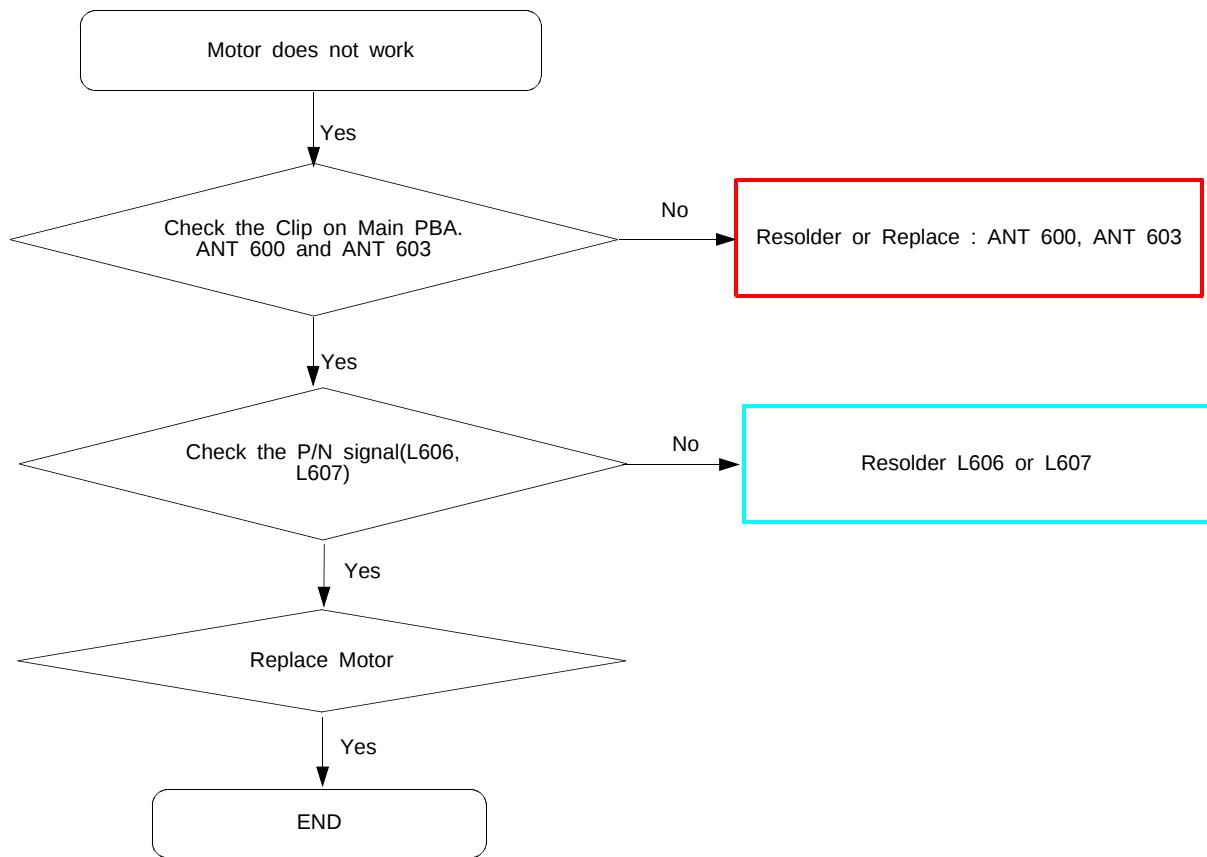
8-3-18. S-pen

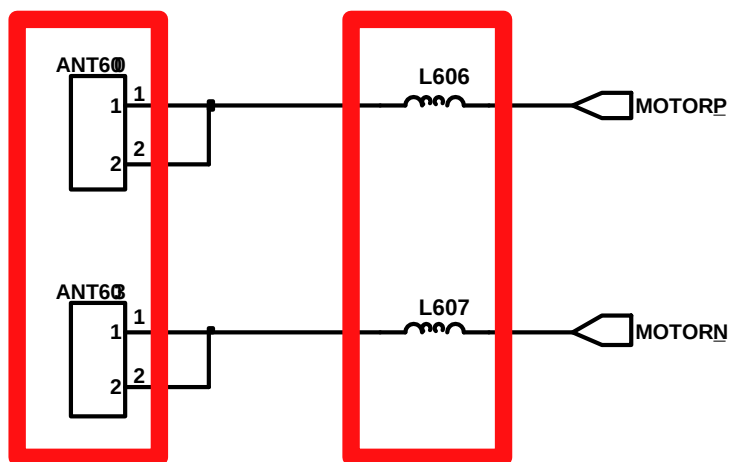
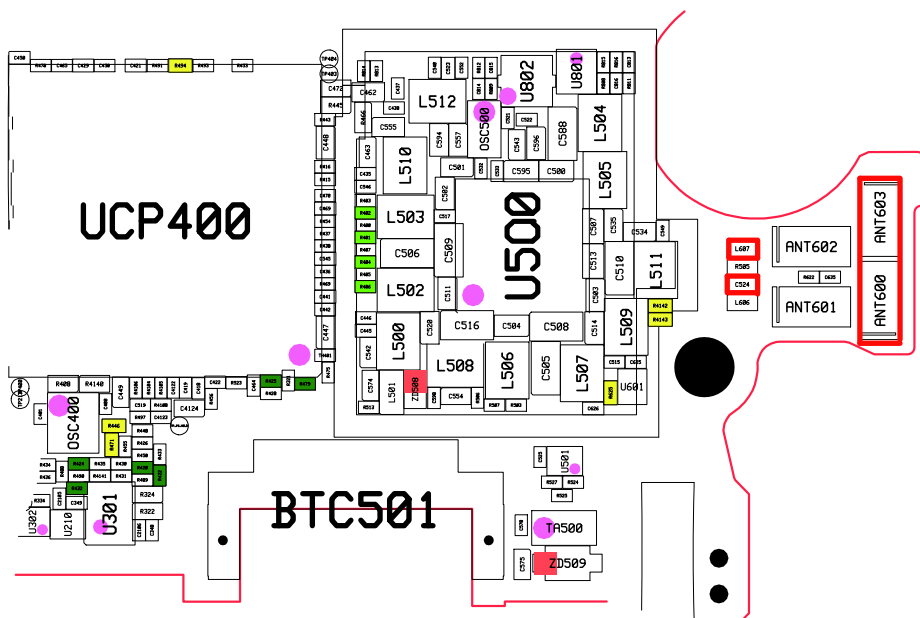




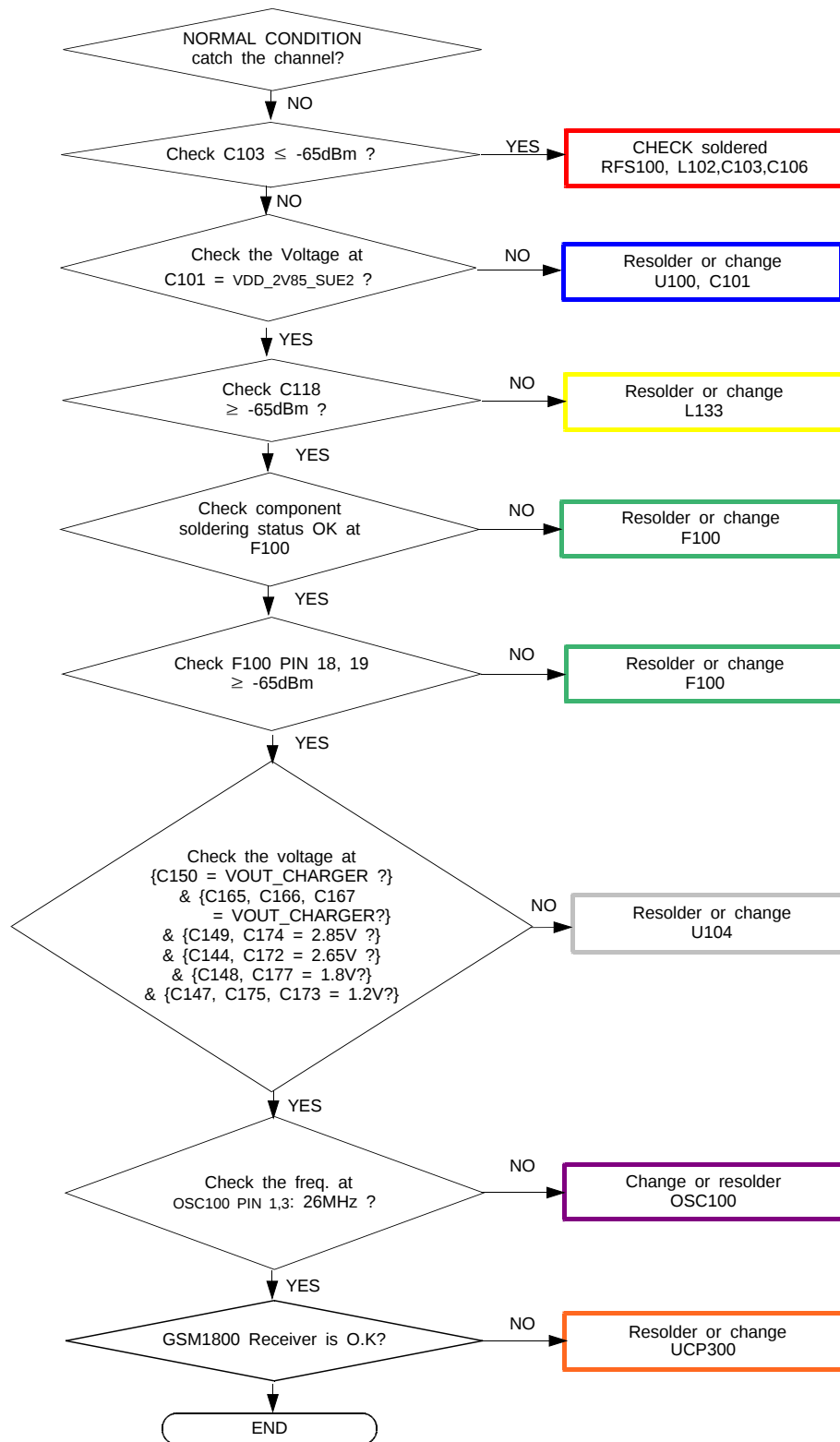


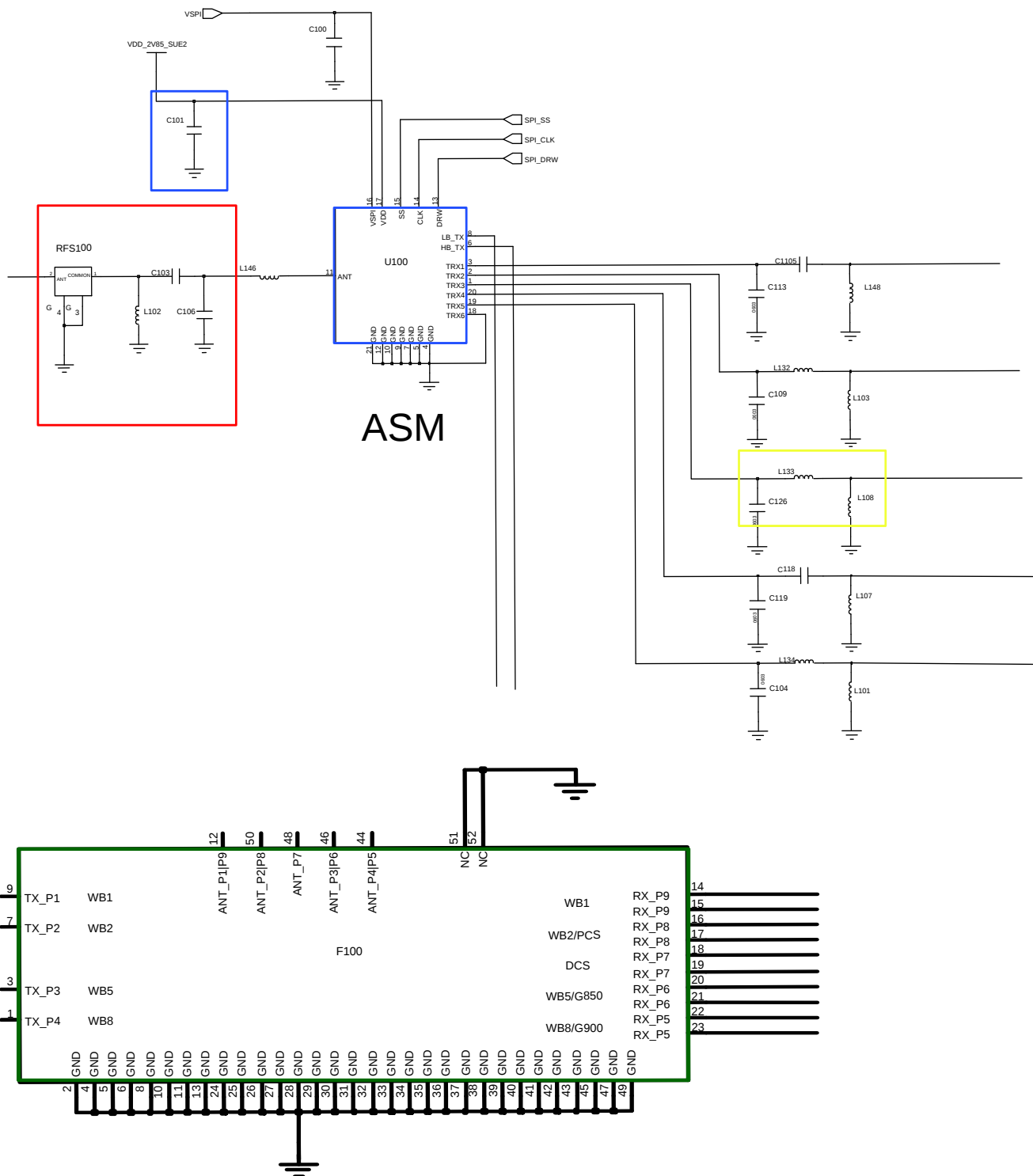
8-3-19. Motor

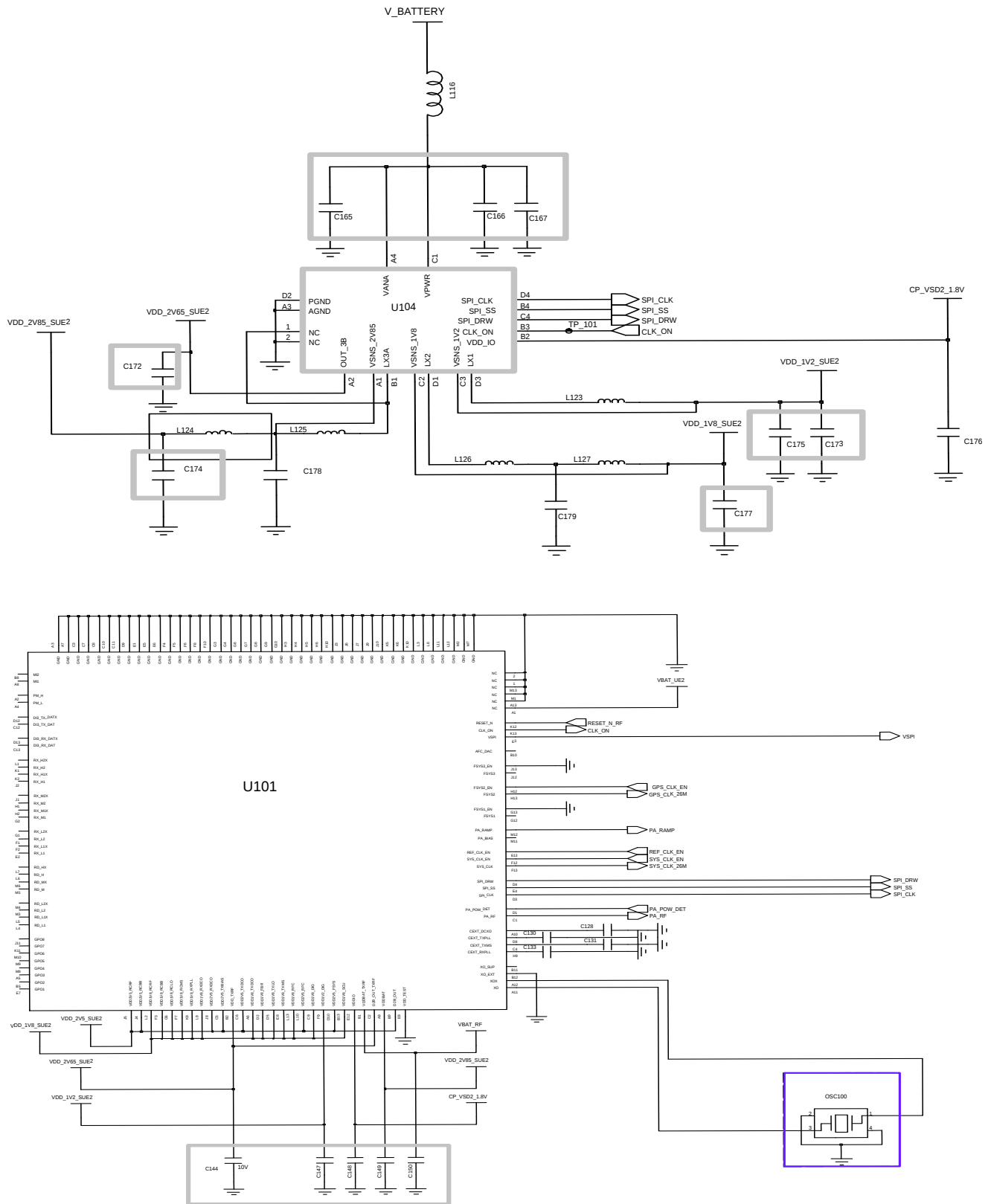


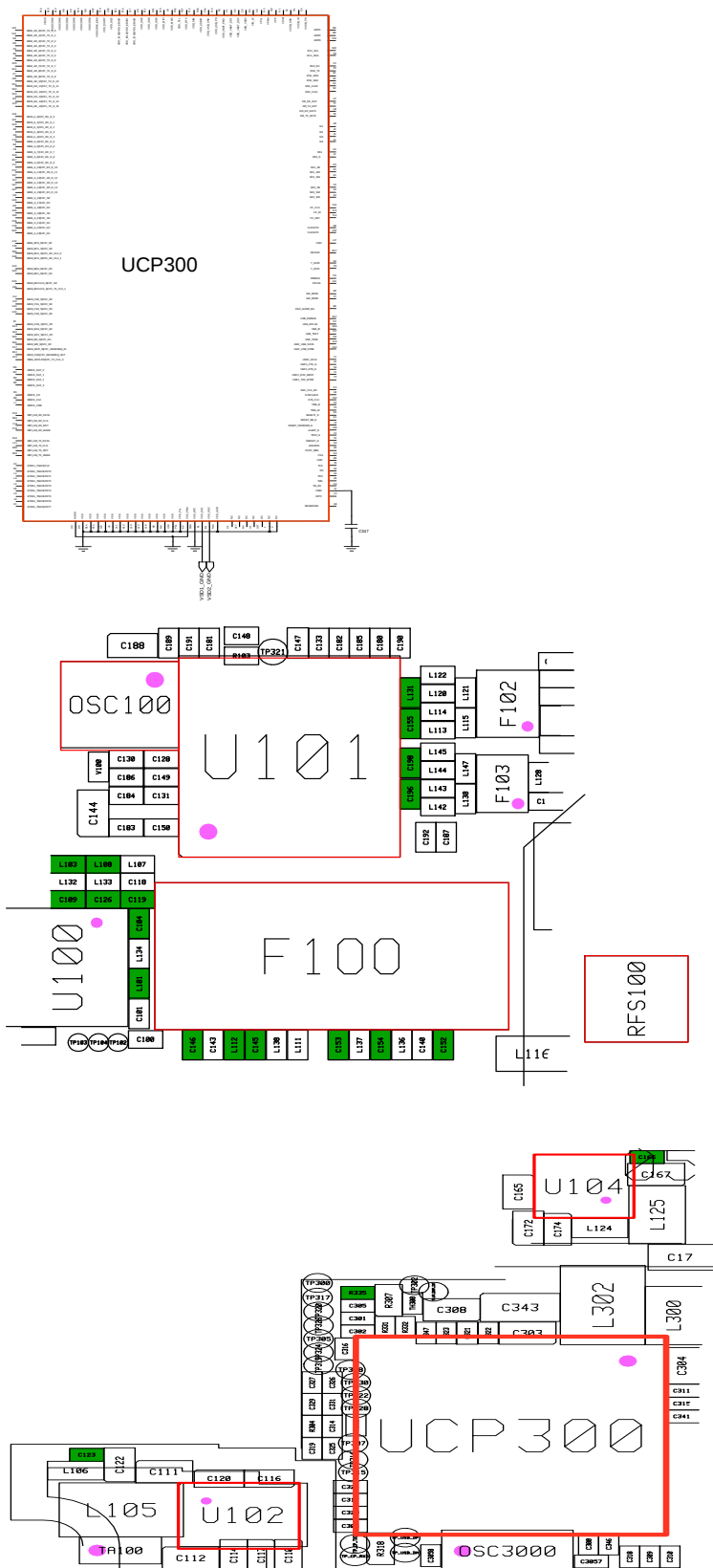


8-3-20. GSM1800 RX

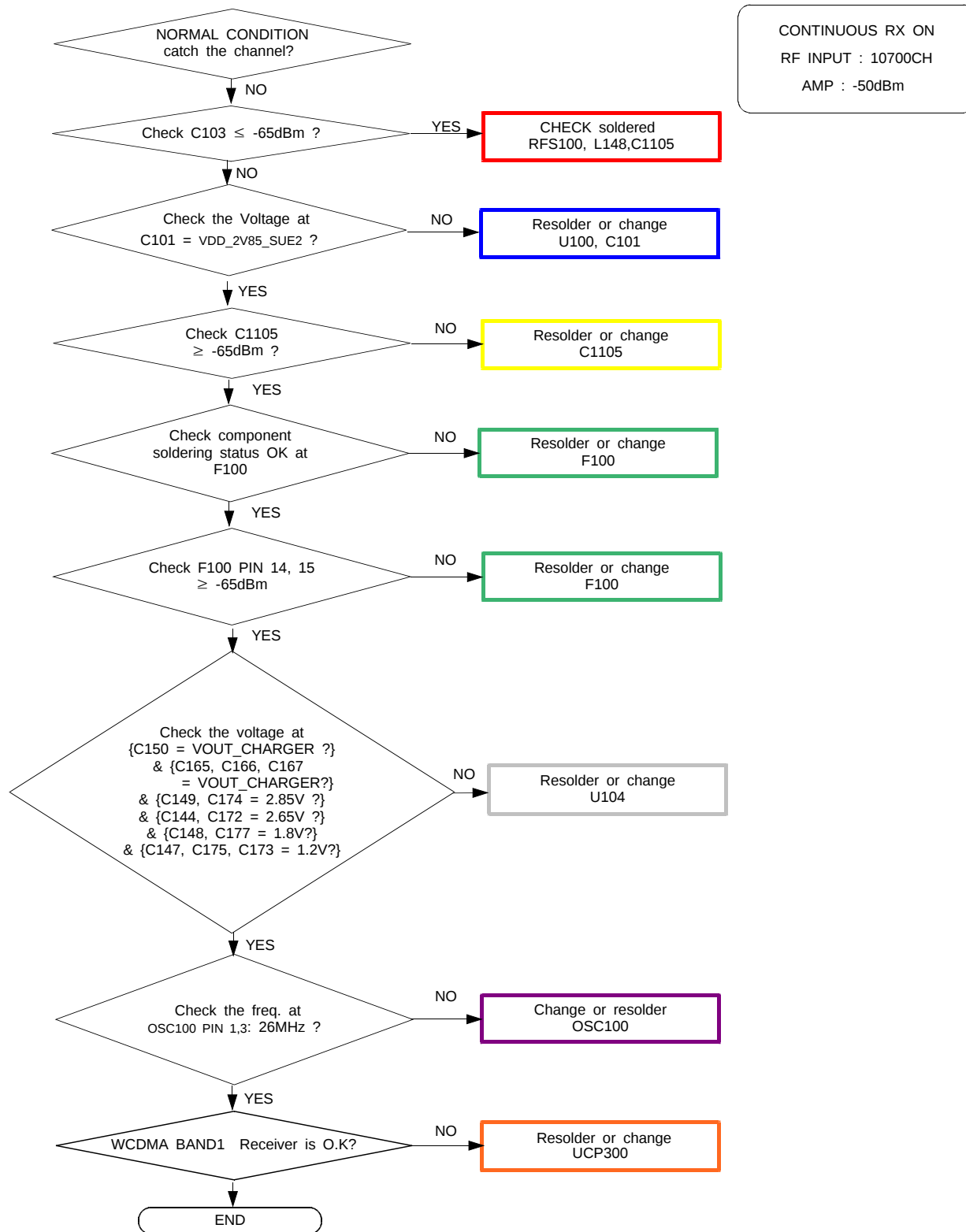


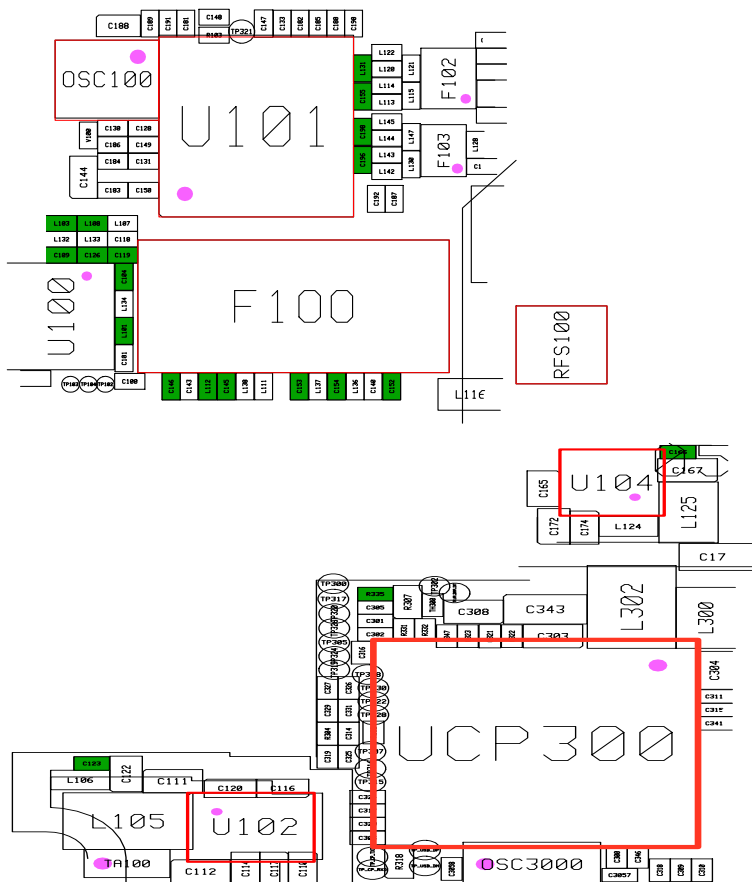




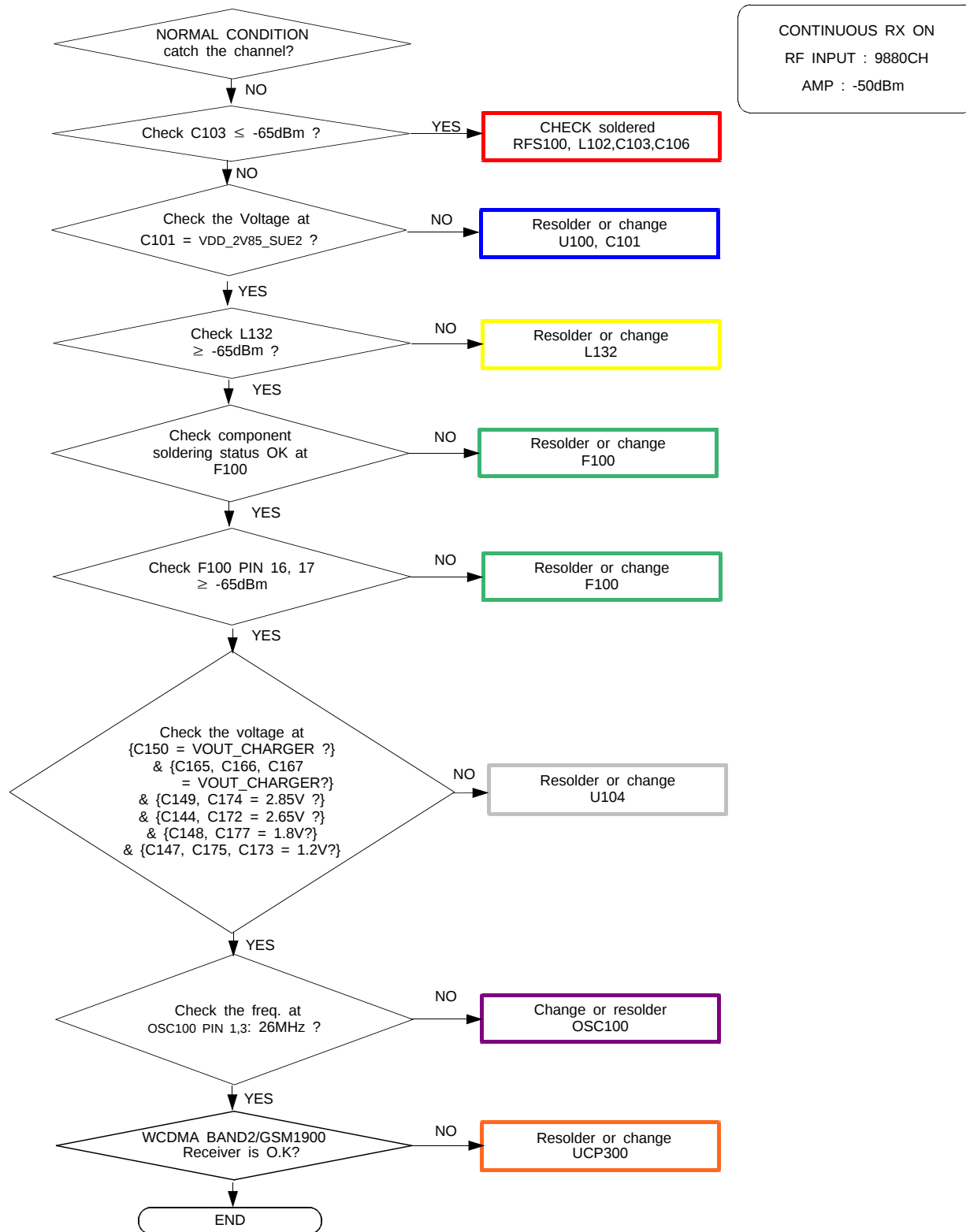


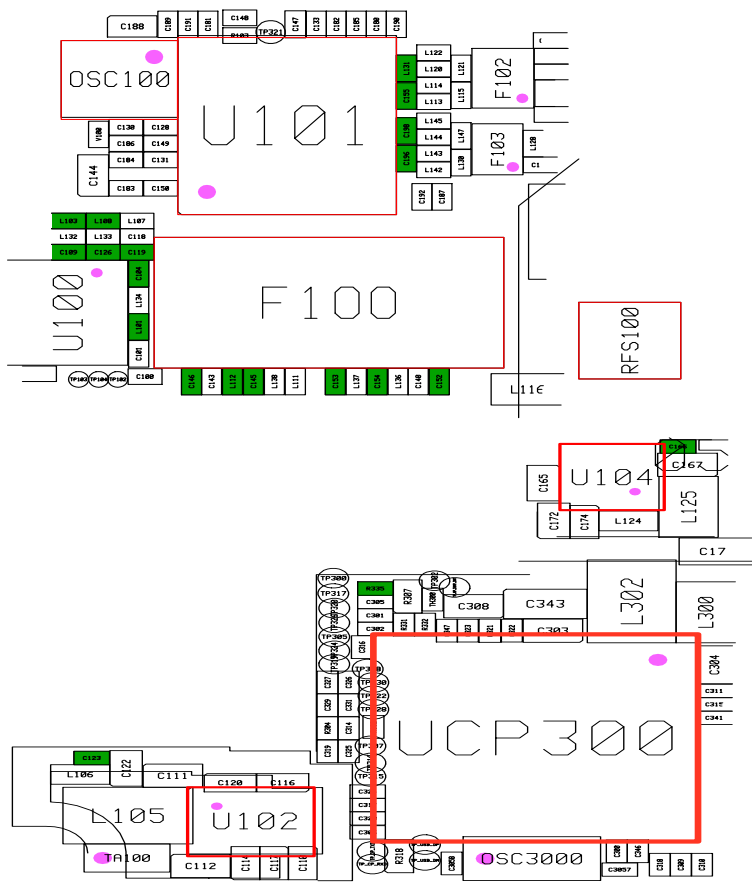
8-3-21. WCDMA Band1 RX



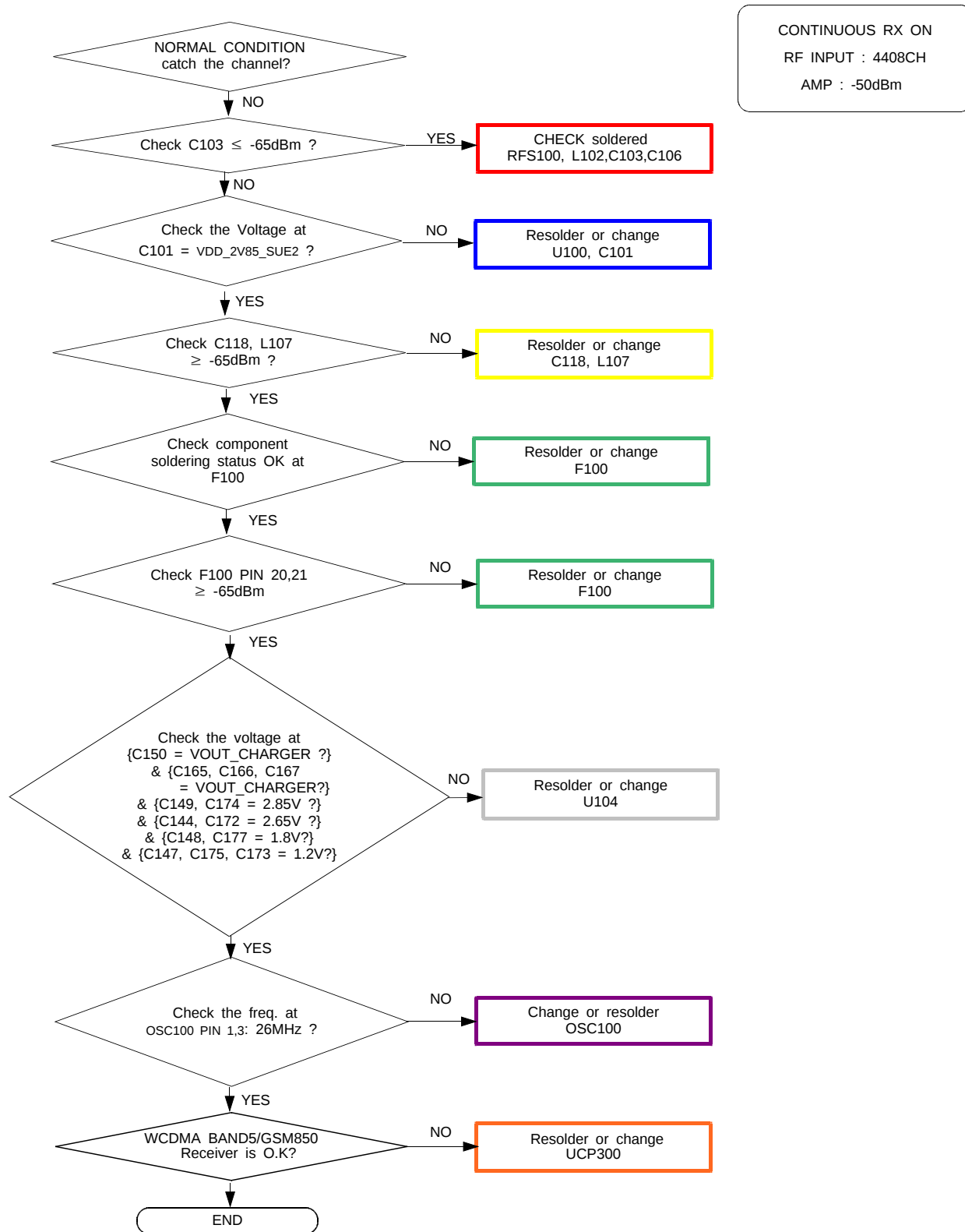


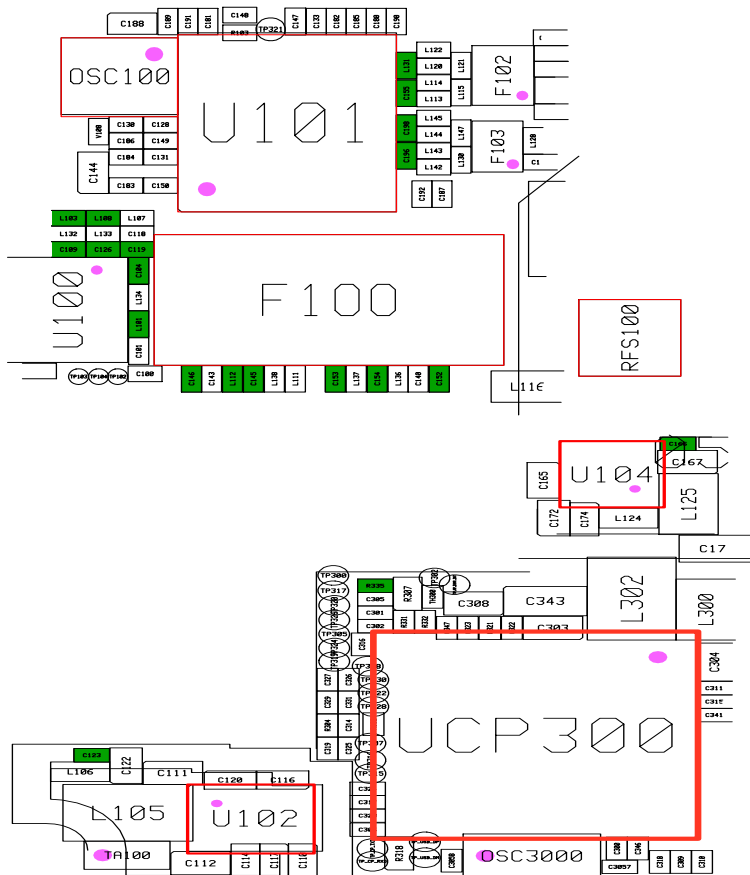
8-3-22. WCDMA Band2 / GSM1900 RX



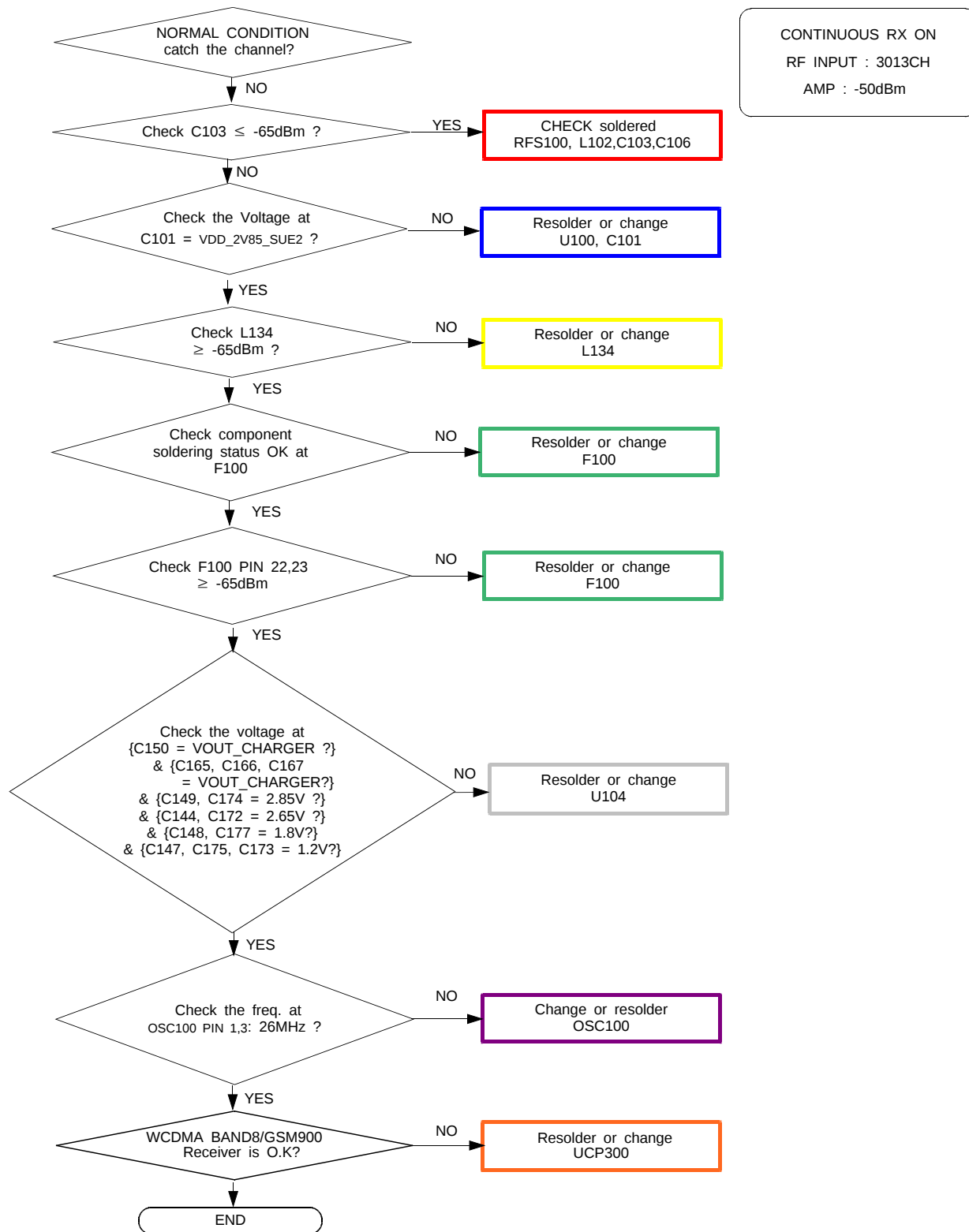


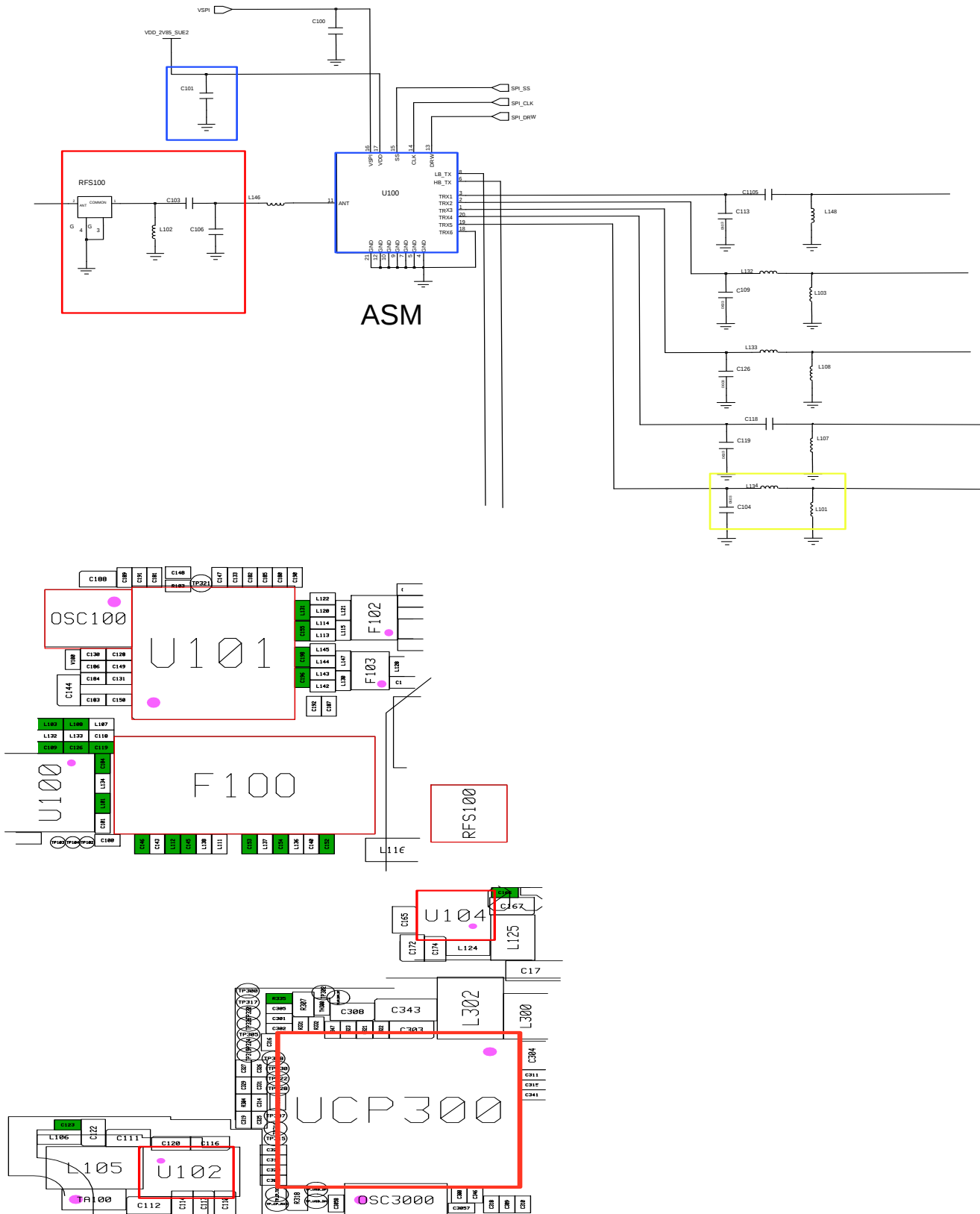
8-3-23. WCDMA Band5 / GSM 850 RX





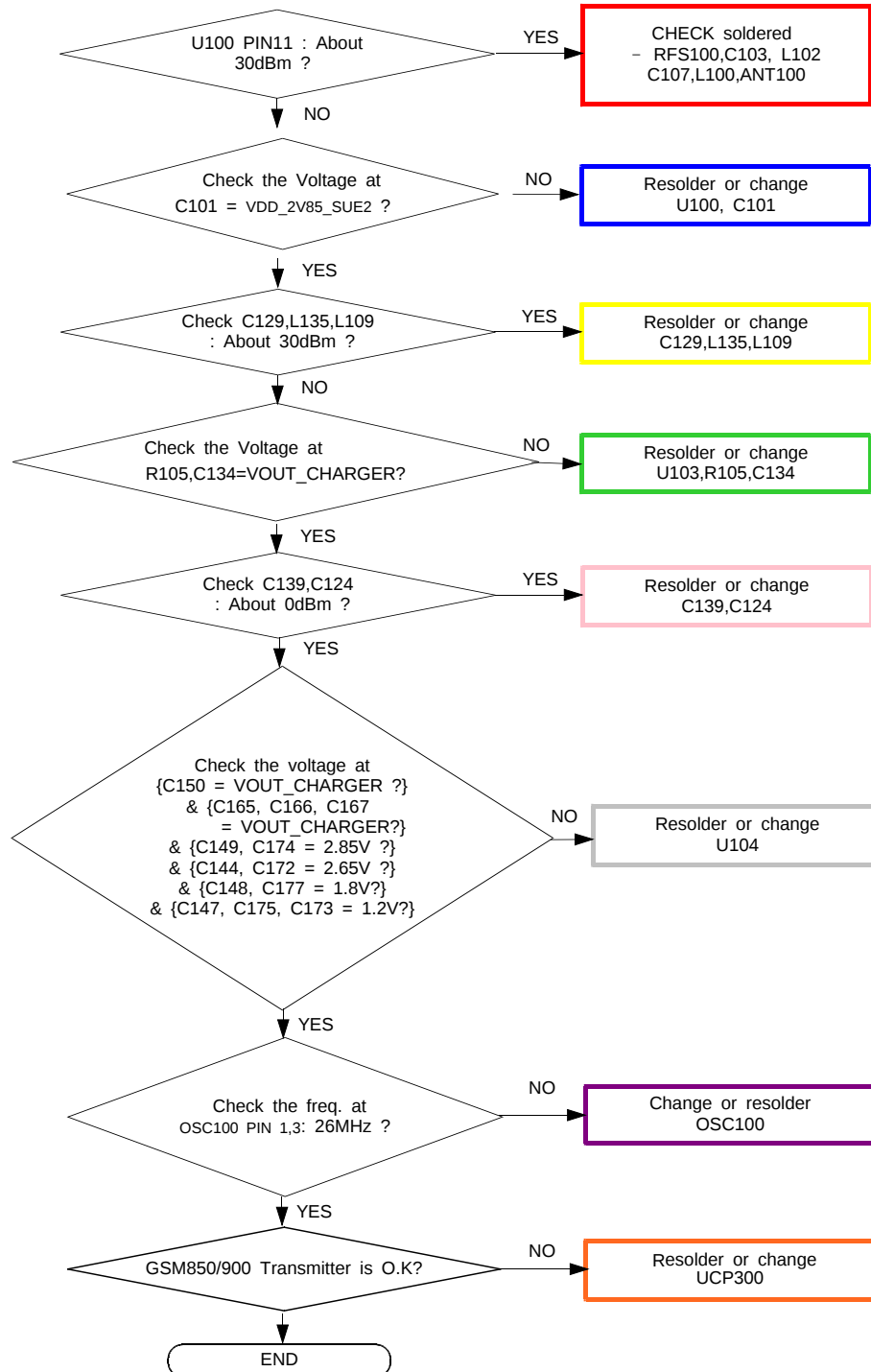
8-3-24. WCDMA Band8 / GSM900 RX

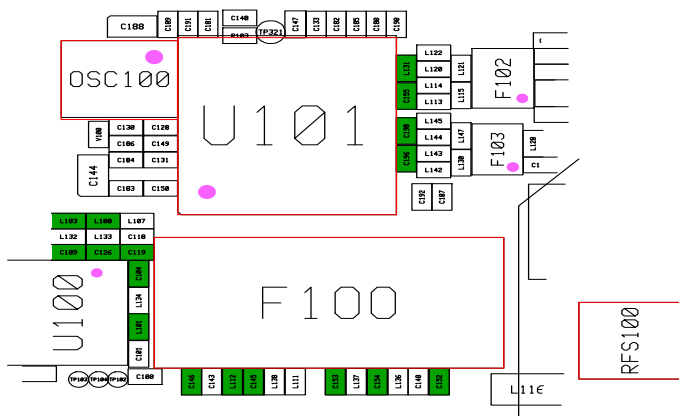




8-3-25. GSM850/GSM900 TX

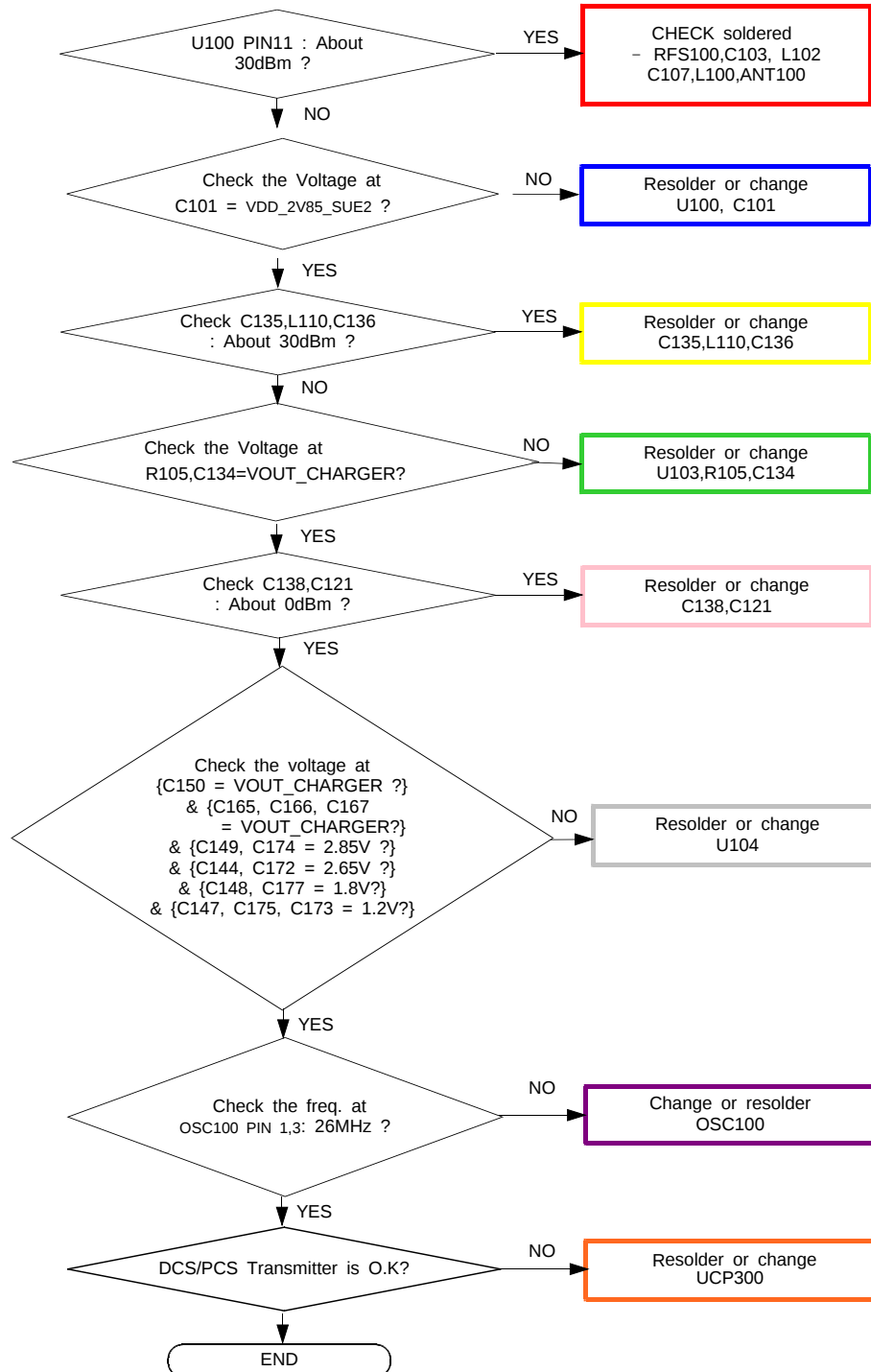
CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
GSM850 CH : 190
GSM900 CH : 62
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB

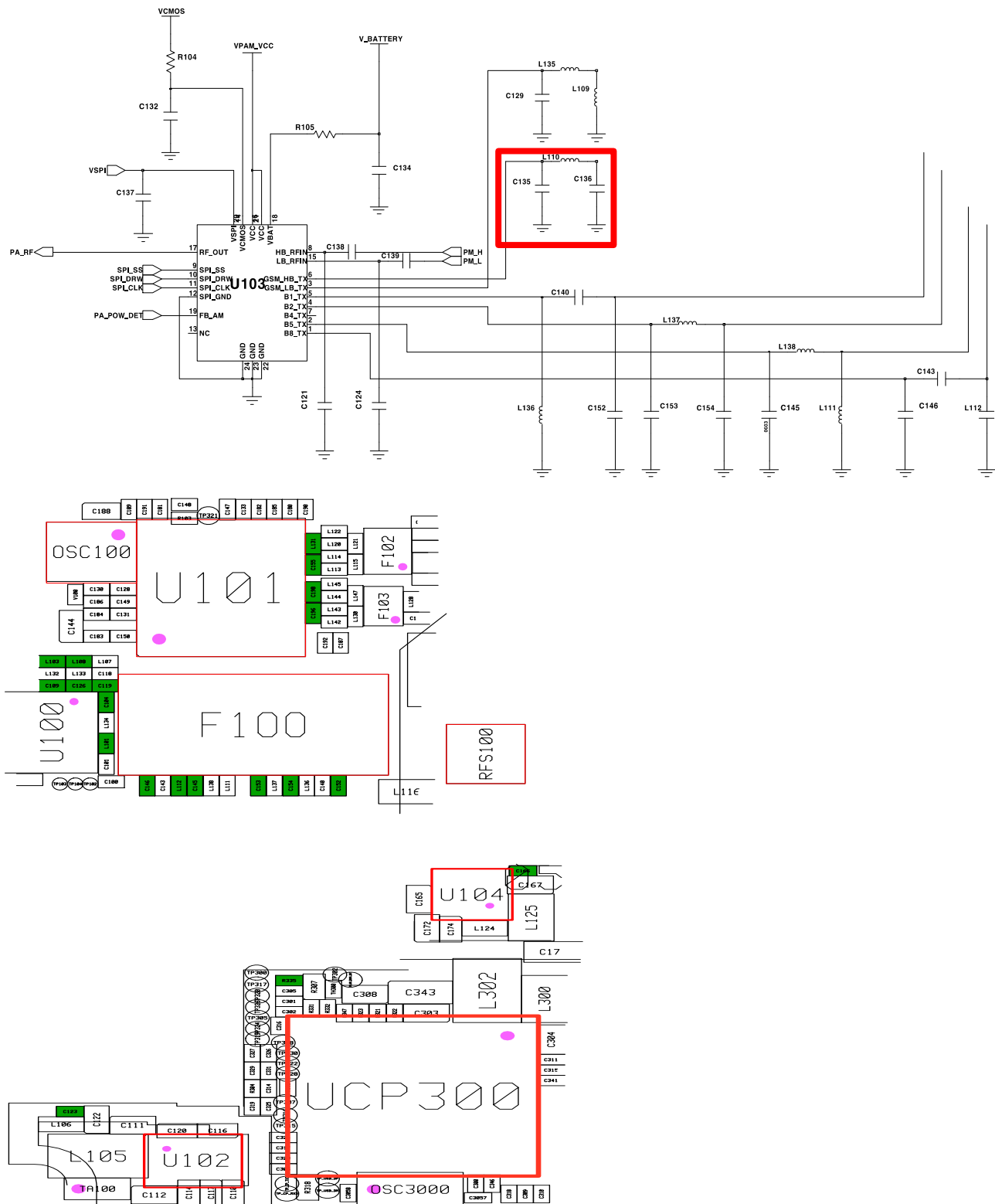




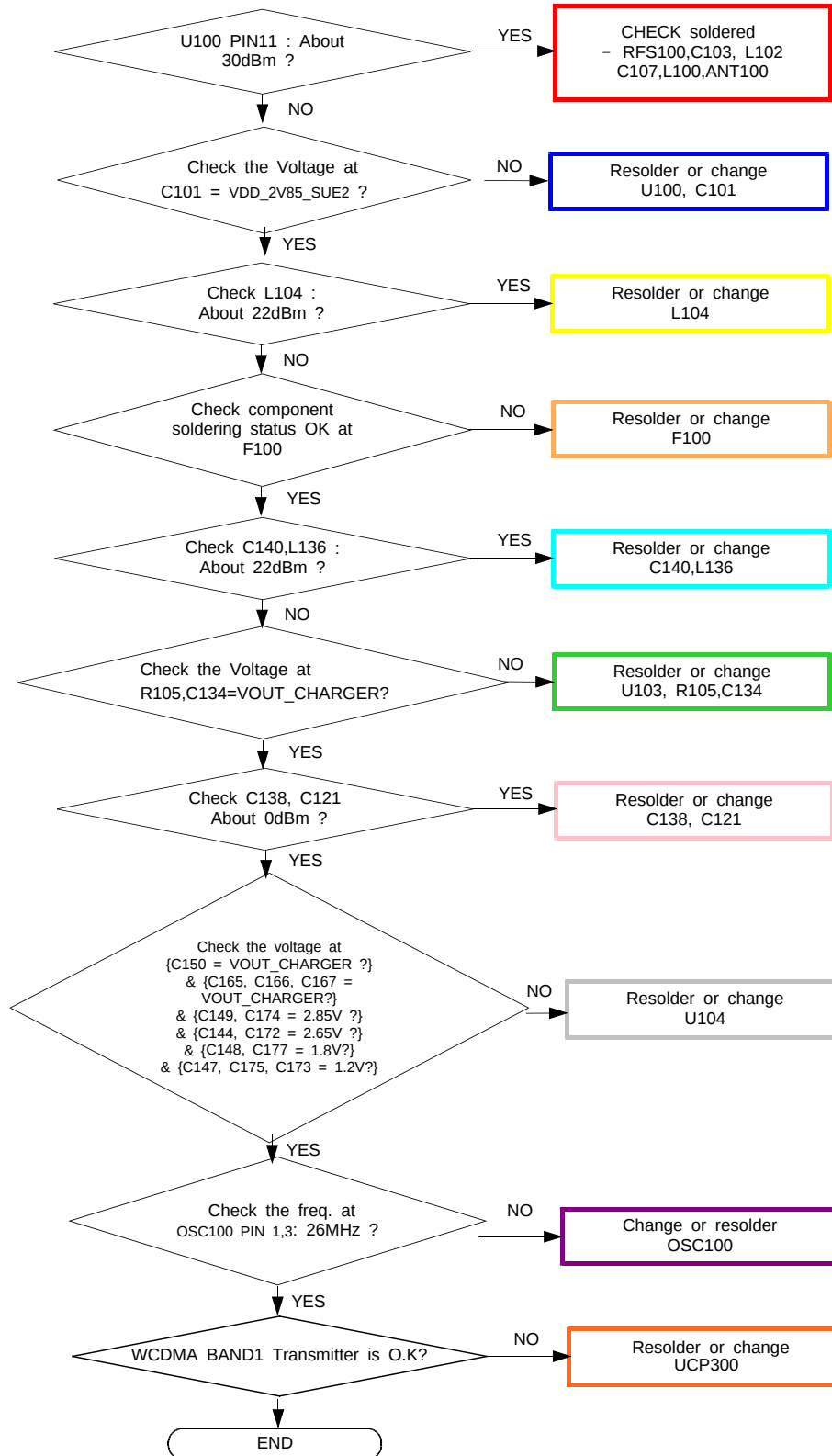
8-3-26. DCS/PCS TX

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

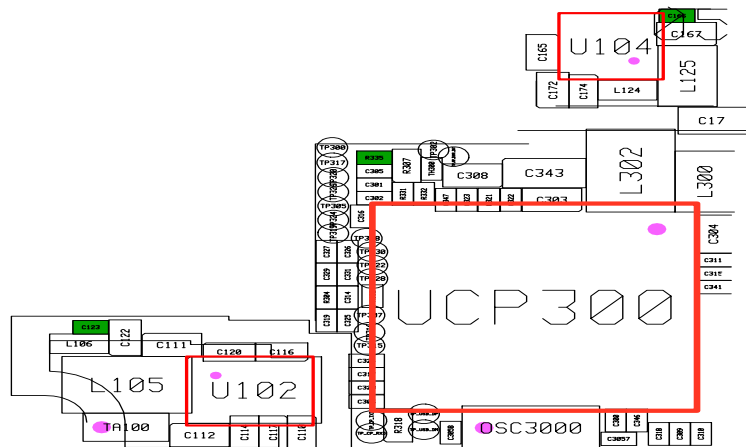
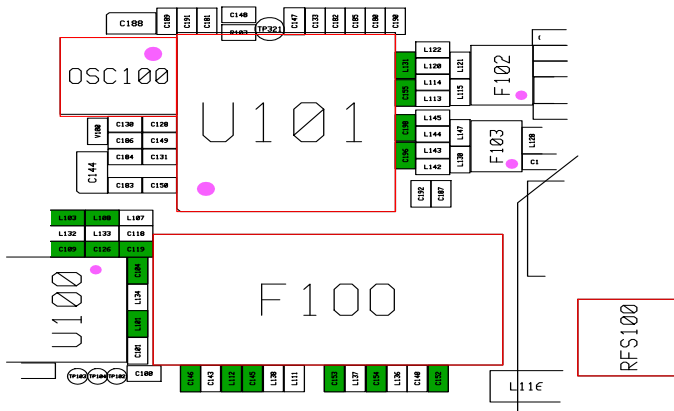
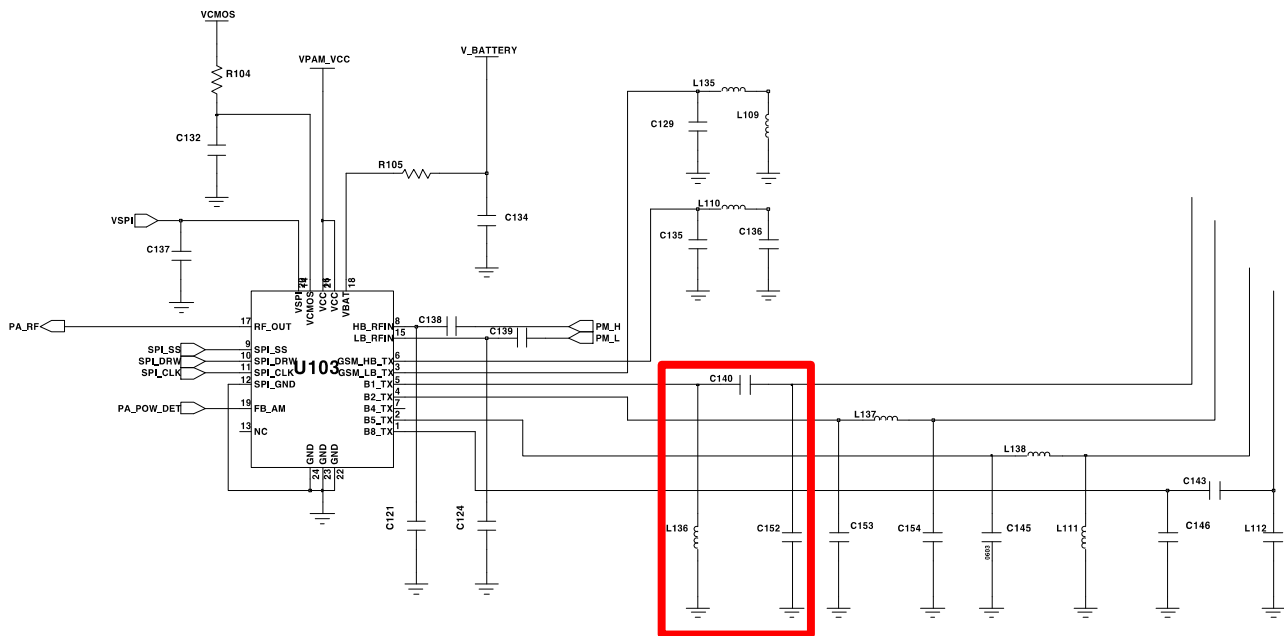




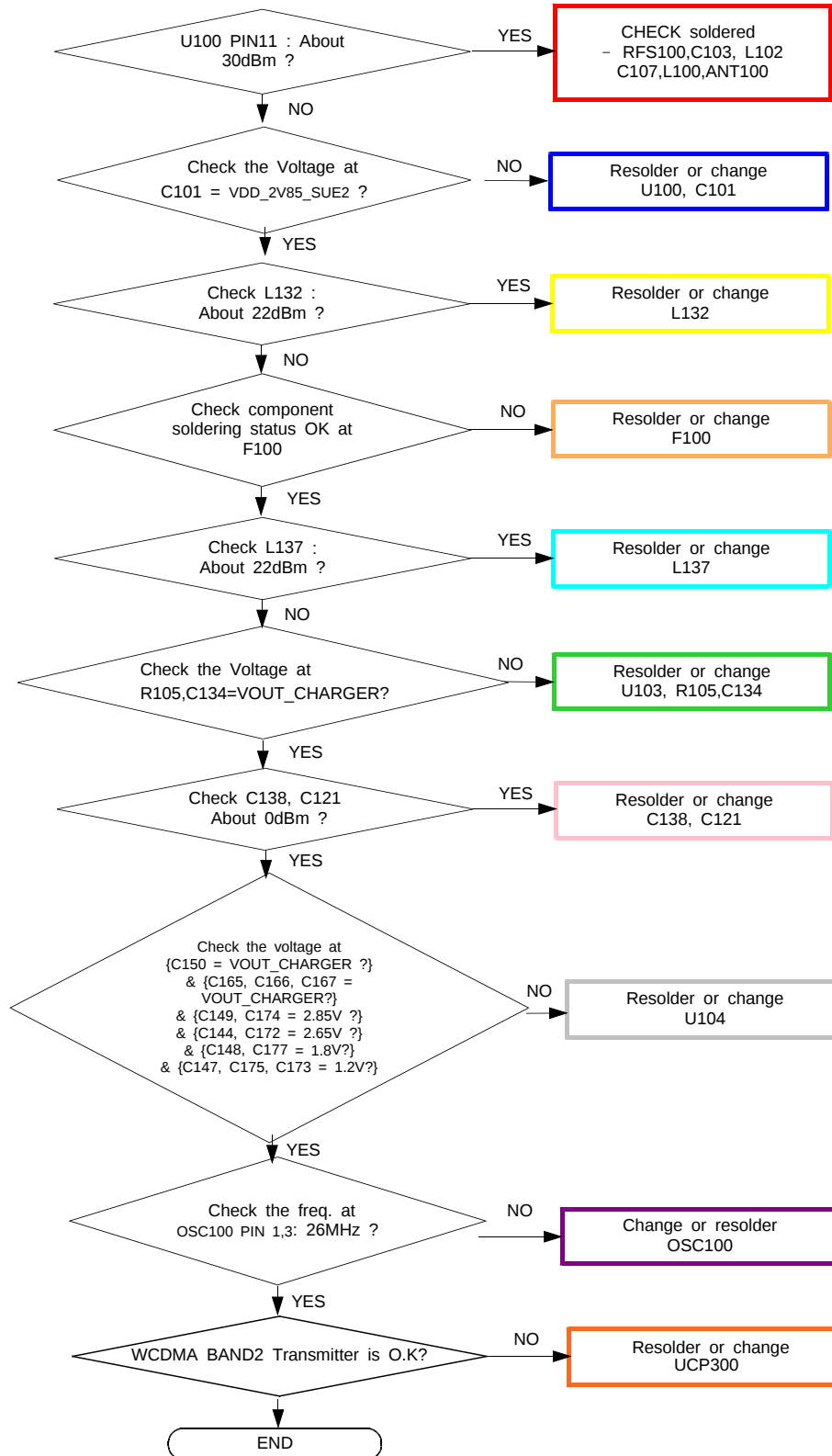
8-3-27. WCDMA BAND1 TX



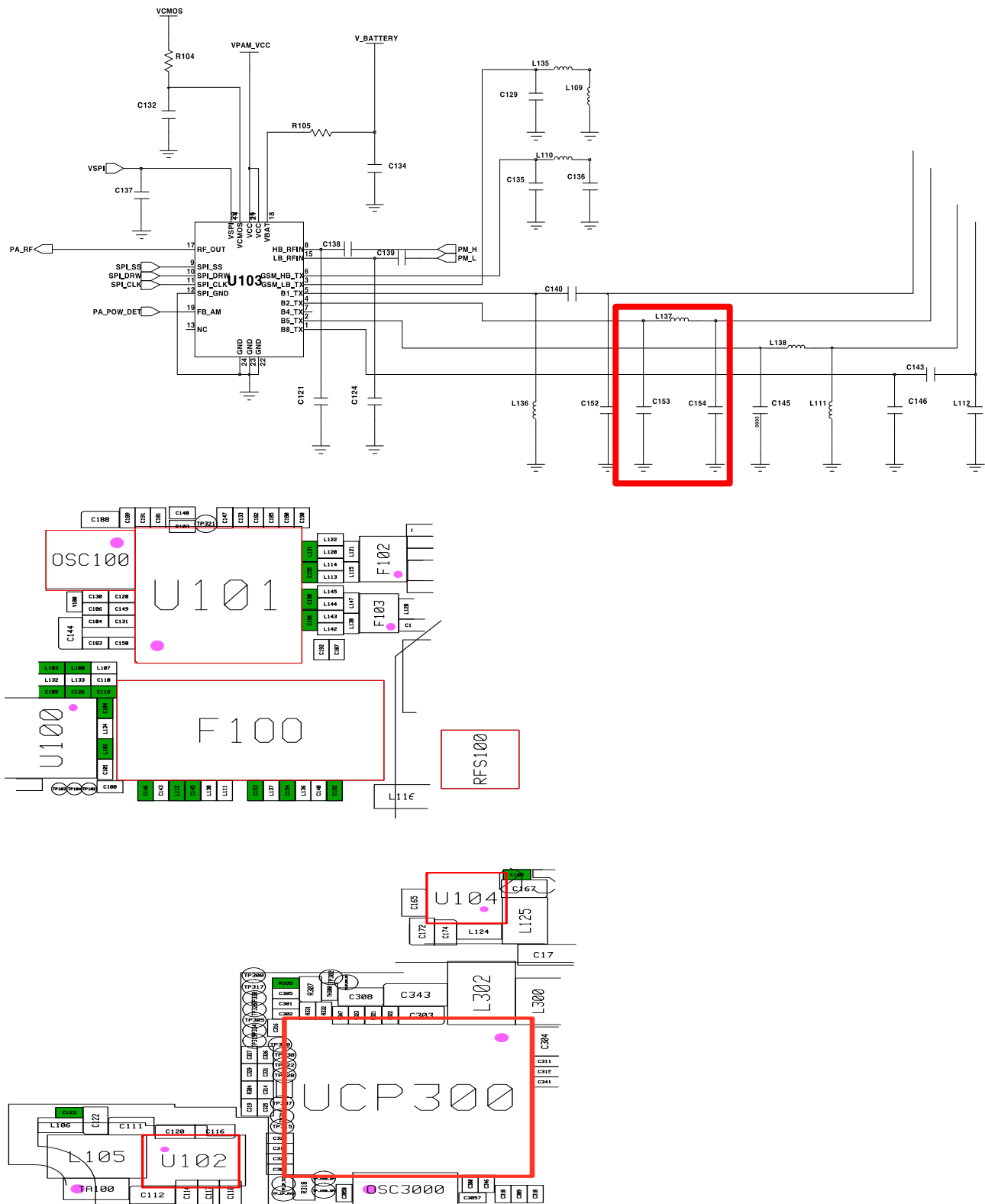
CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
WCDMA Band1 CH : 10700
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB



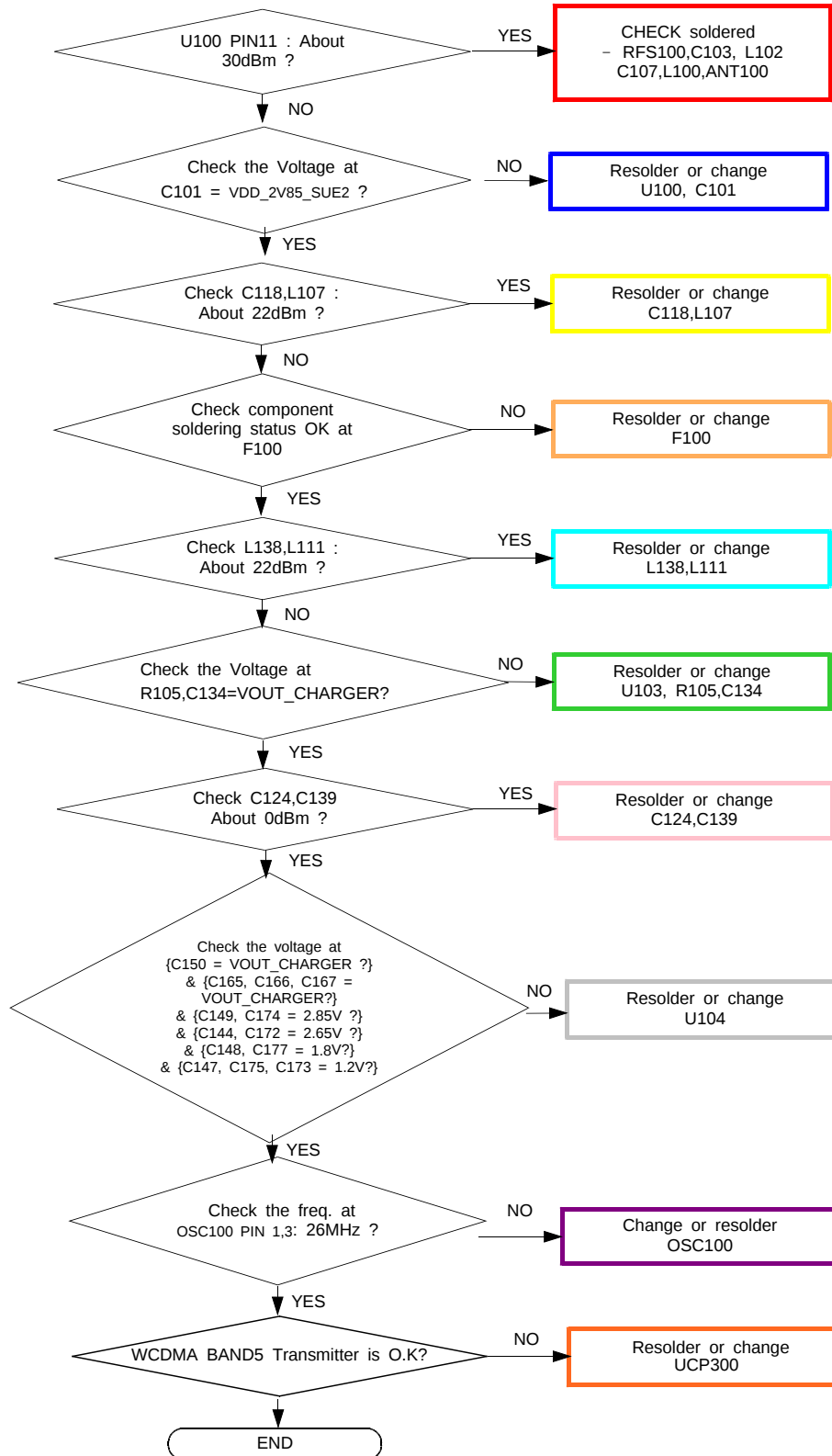
8-3-28. WCDMA BAND2 TX



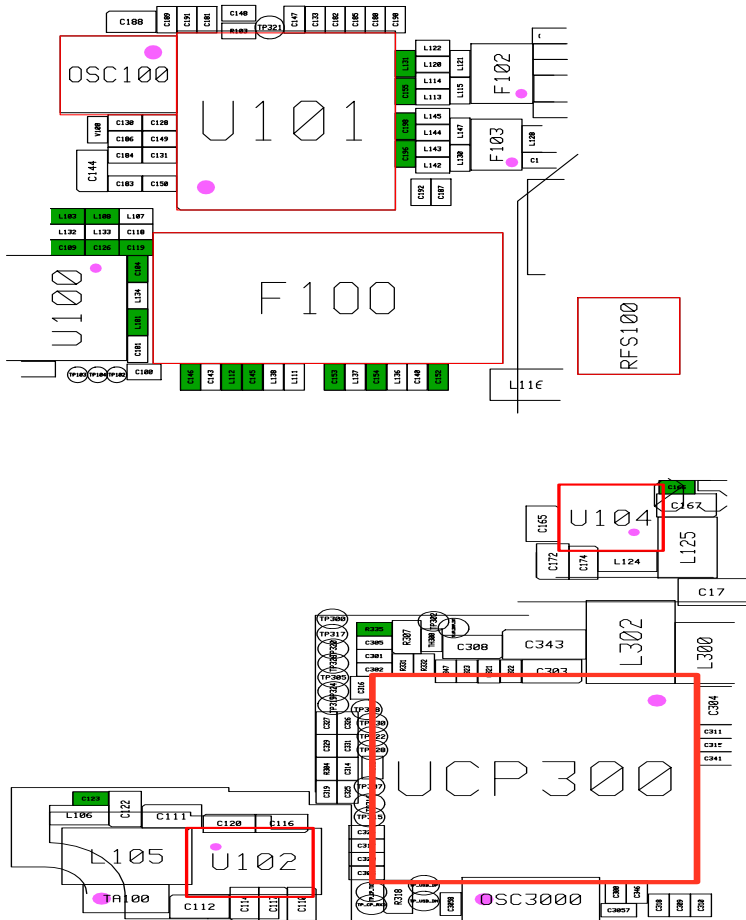
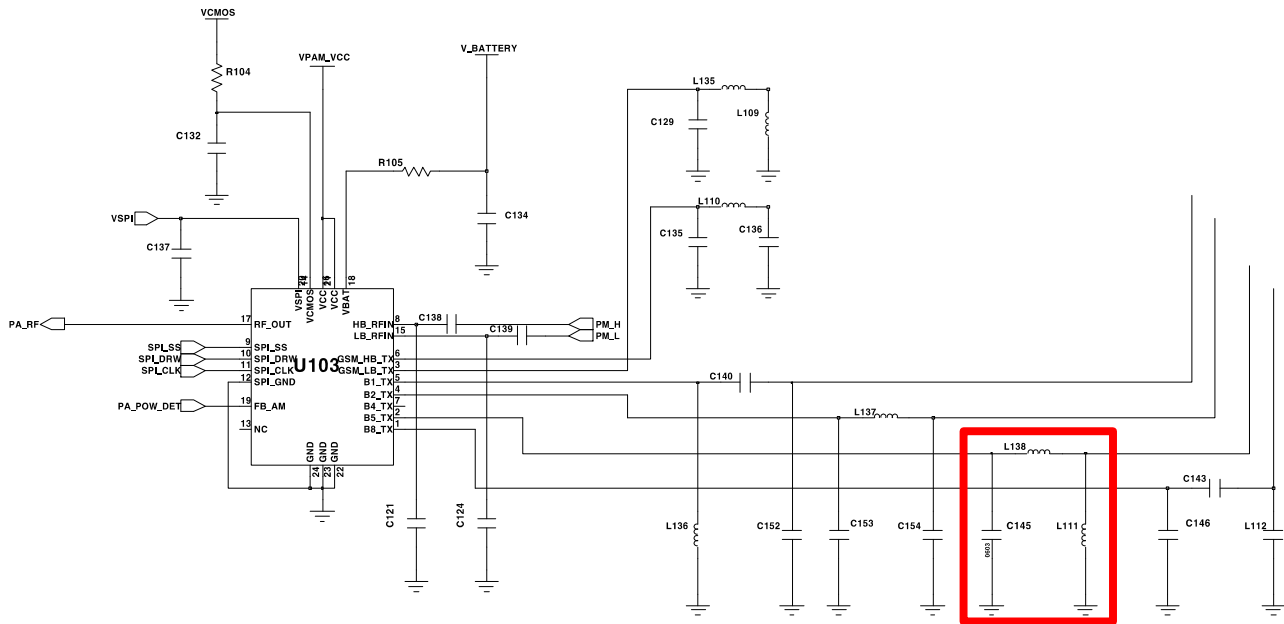
CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
WCDMA Band2 CH : 9880
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB



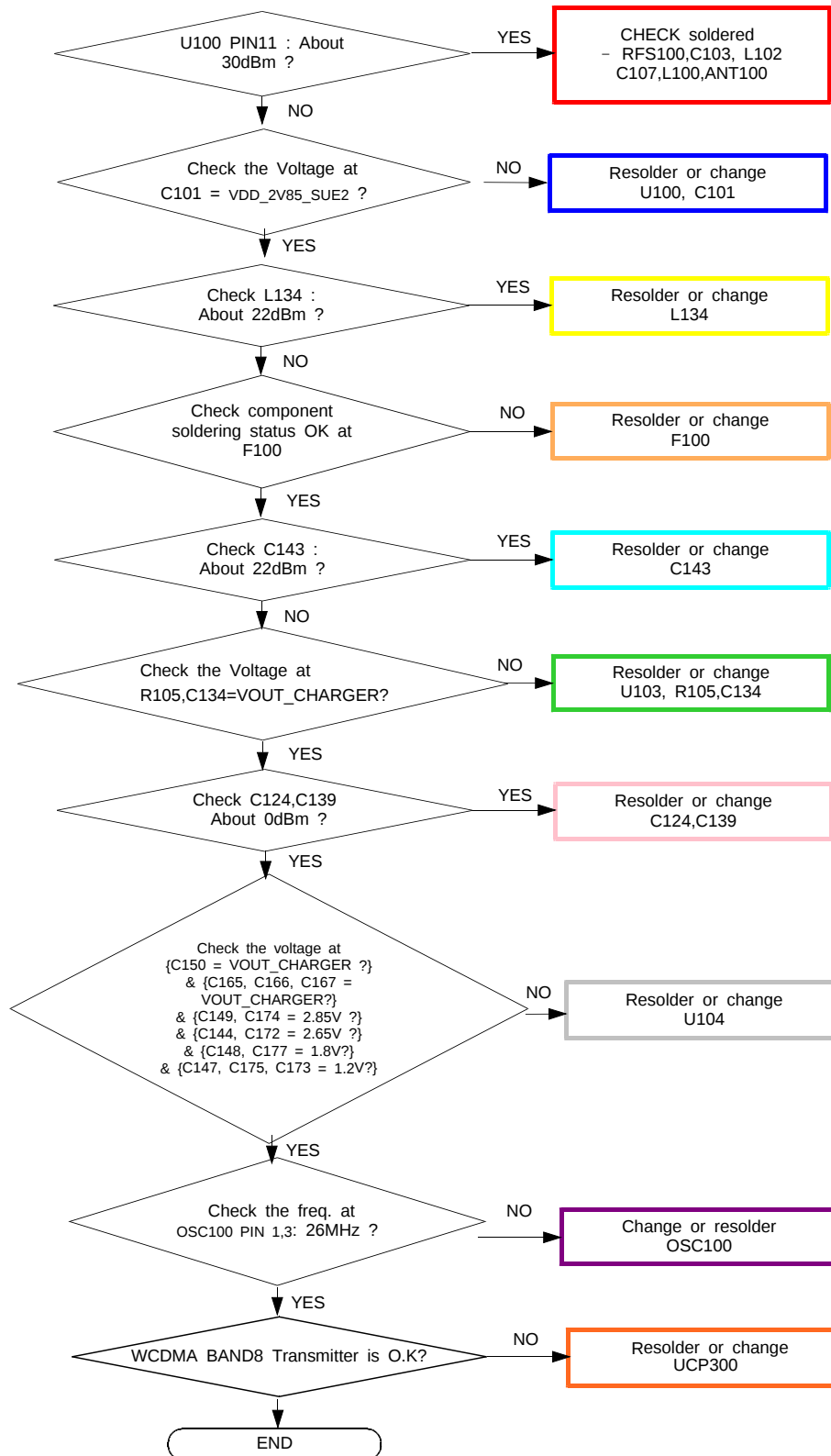
8-3-29. WCDMA BAND5 TX



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



8-3-30. WCDMA BAND8 TX



CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
WCDMA Band2 CH : 3013
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB

