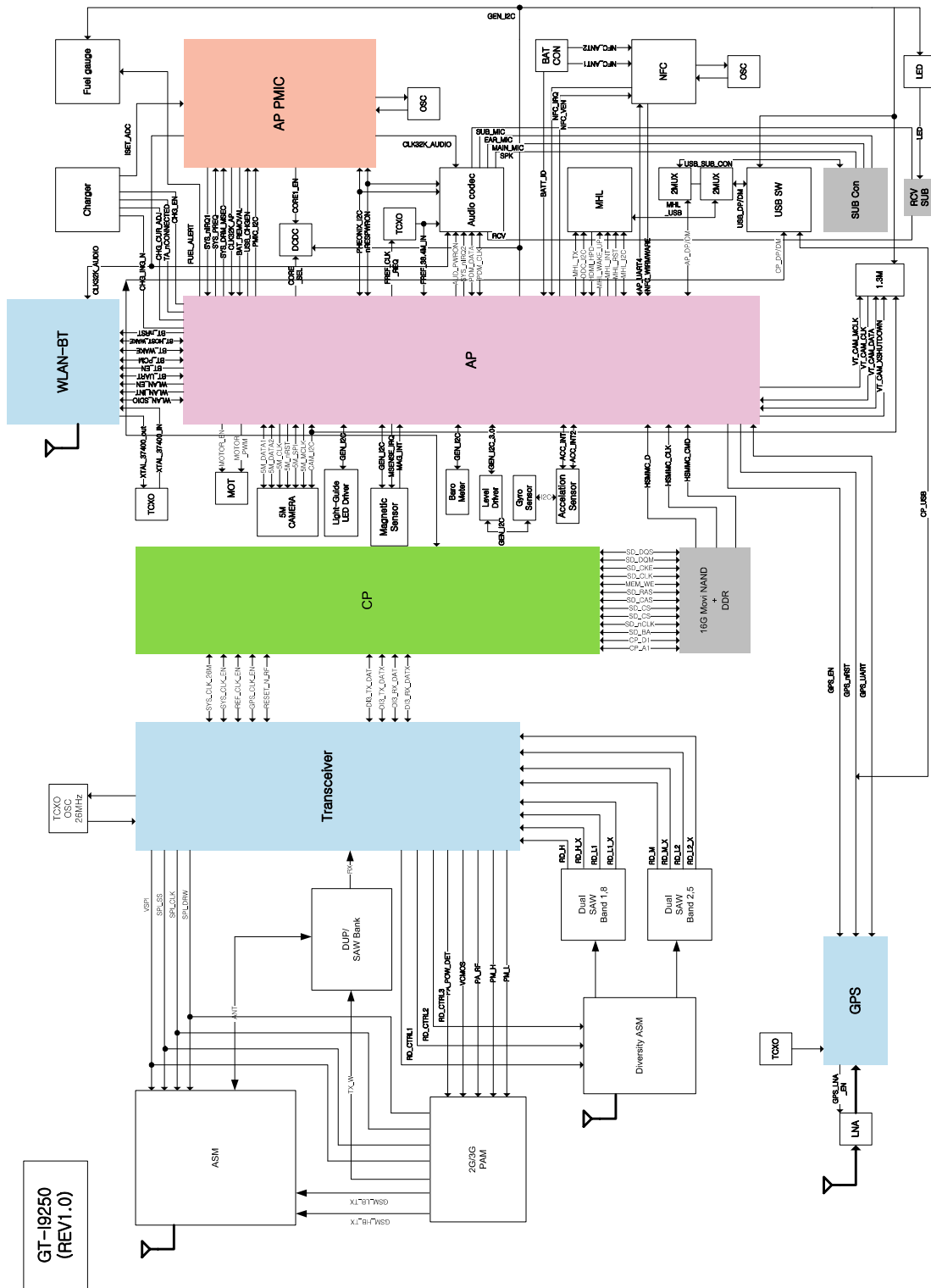


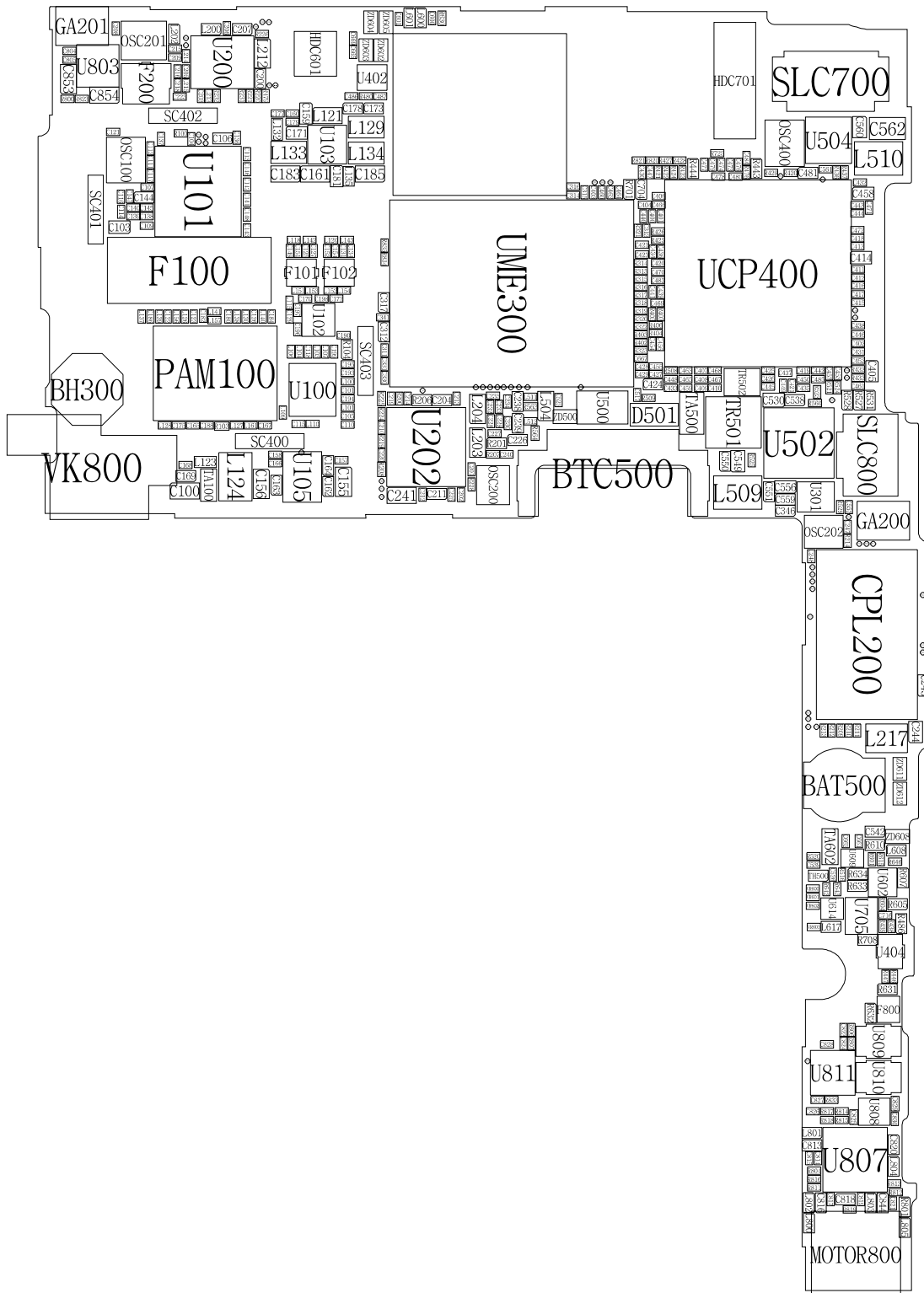
8. Level 3 Repair

8-1. Block Diagram

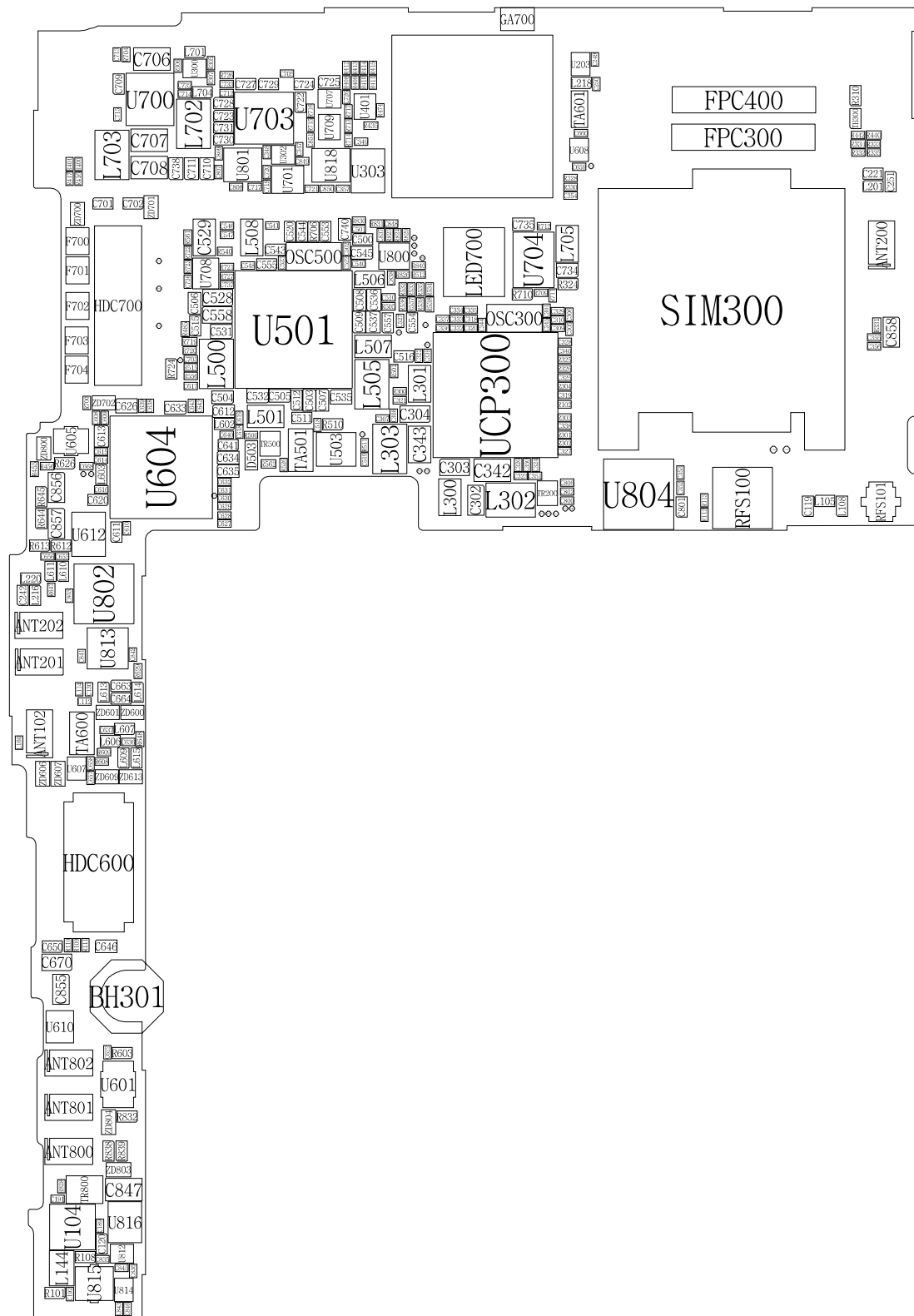


8-2. PCB Diagrams

8-2-1. Top

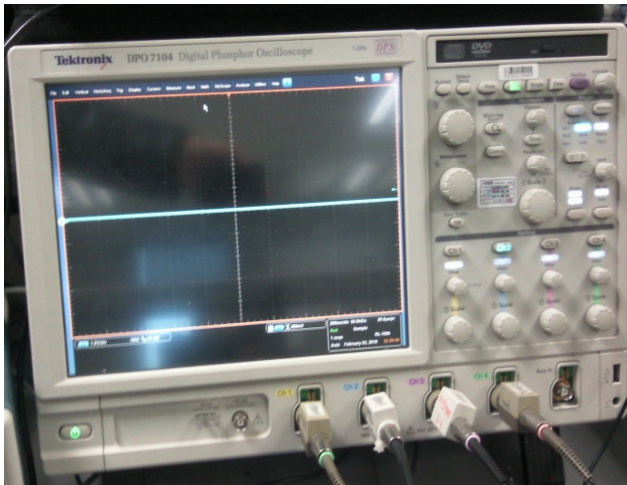


8-2-2. Bottom



8-3. Flow Chart of Troubleshooting

Equipments



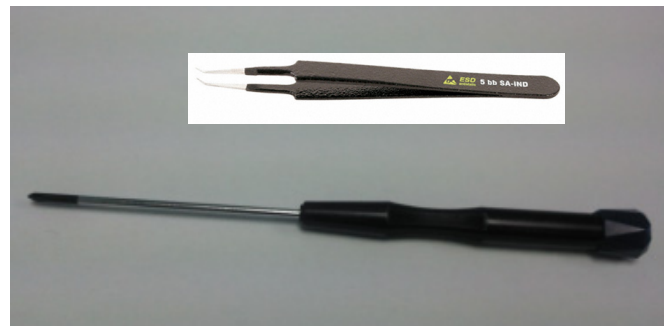
↑ Oscilloscope



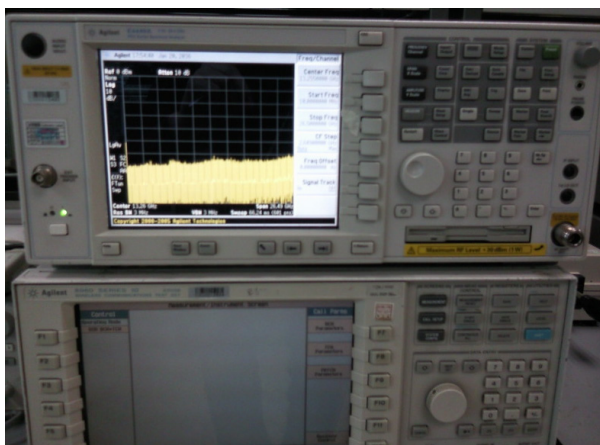
↑ Digital Multimeter



↑ Power Supply



↑ + driver, ESD Safe Tweezer



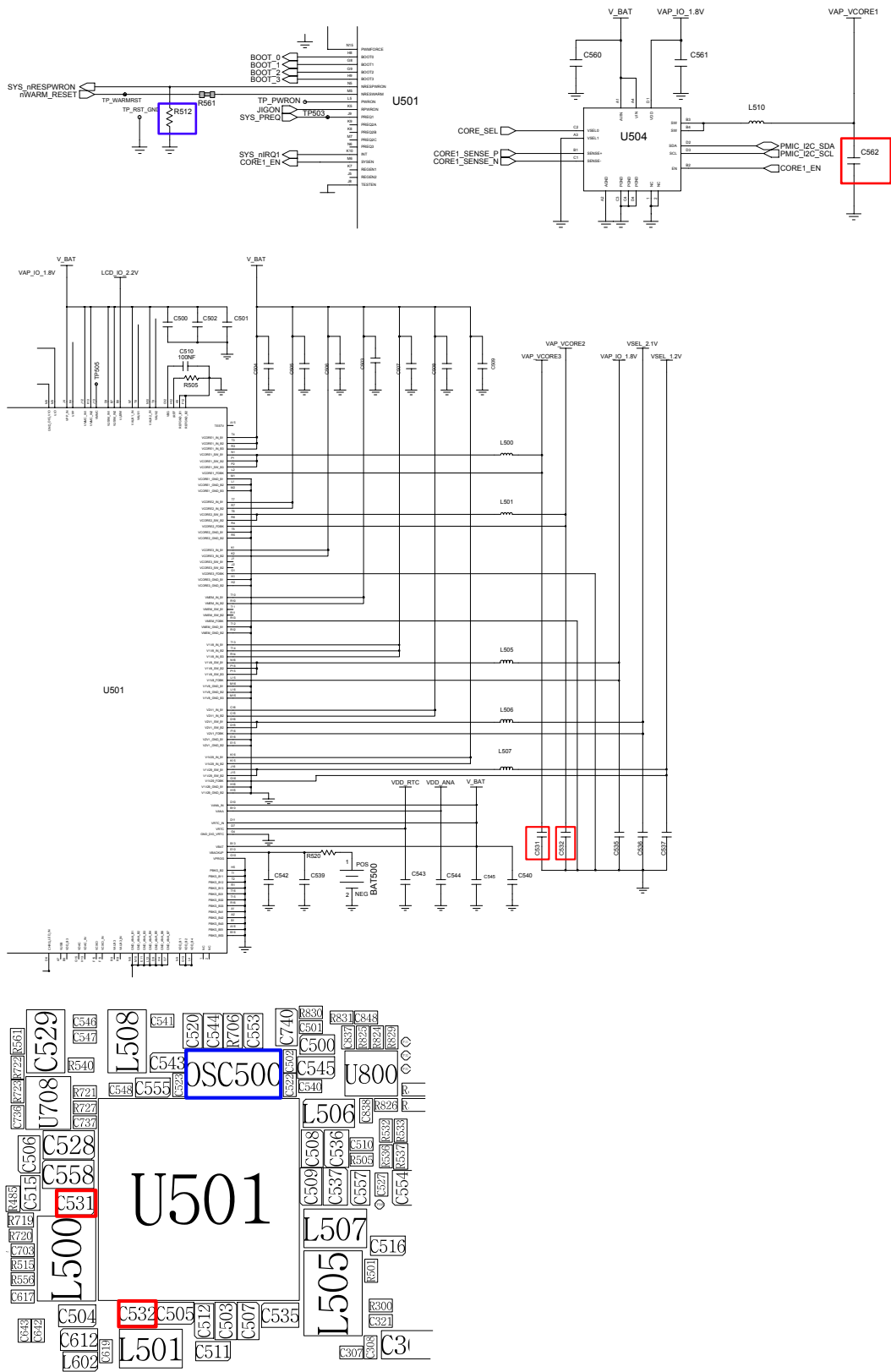
↑ 8960 & Spectrum Analyzer



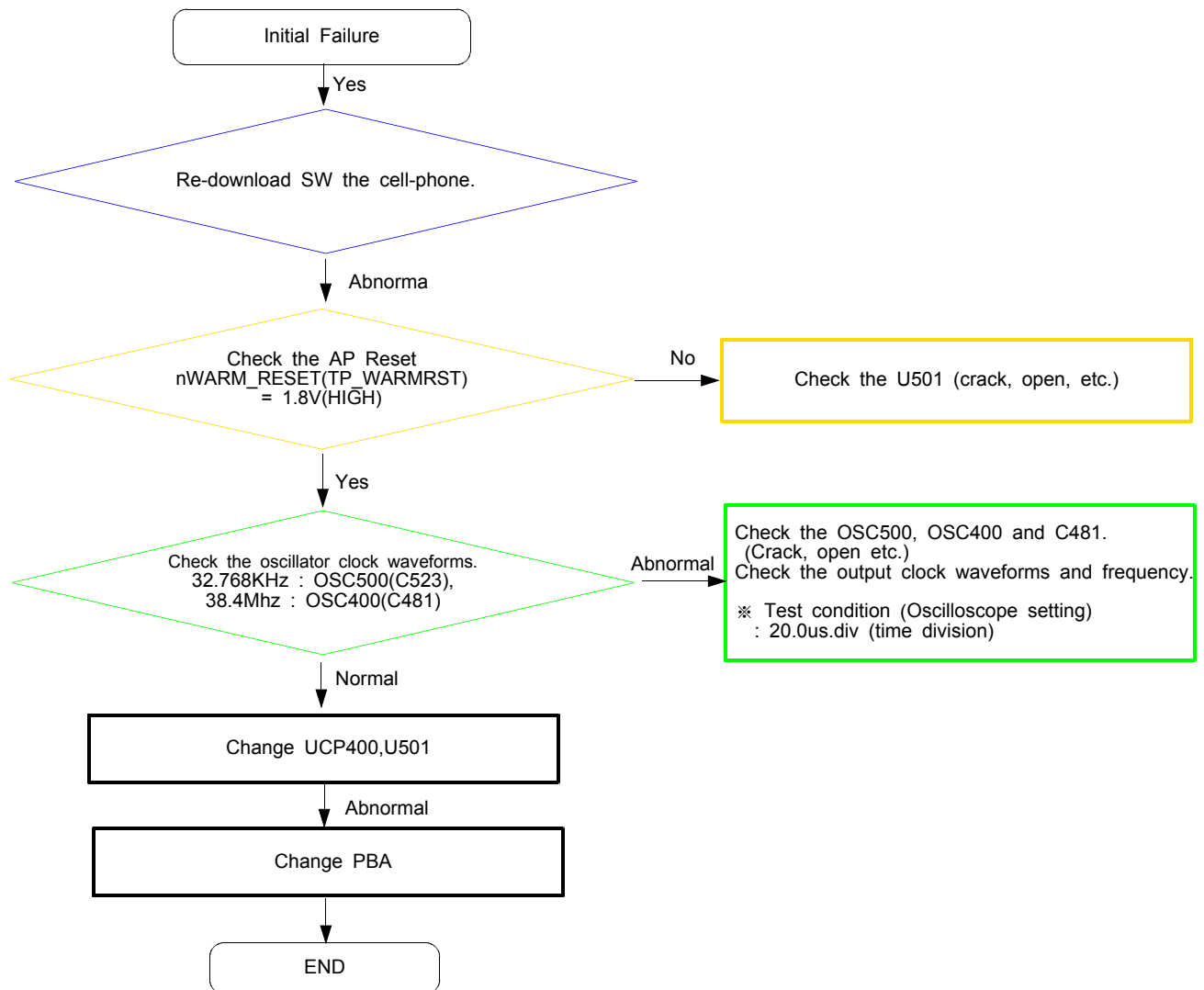
↑ Soldering iron

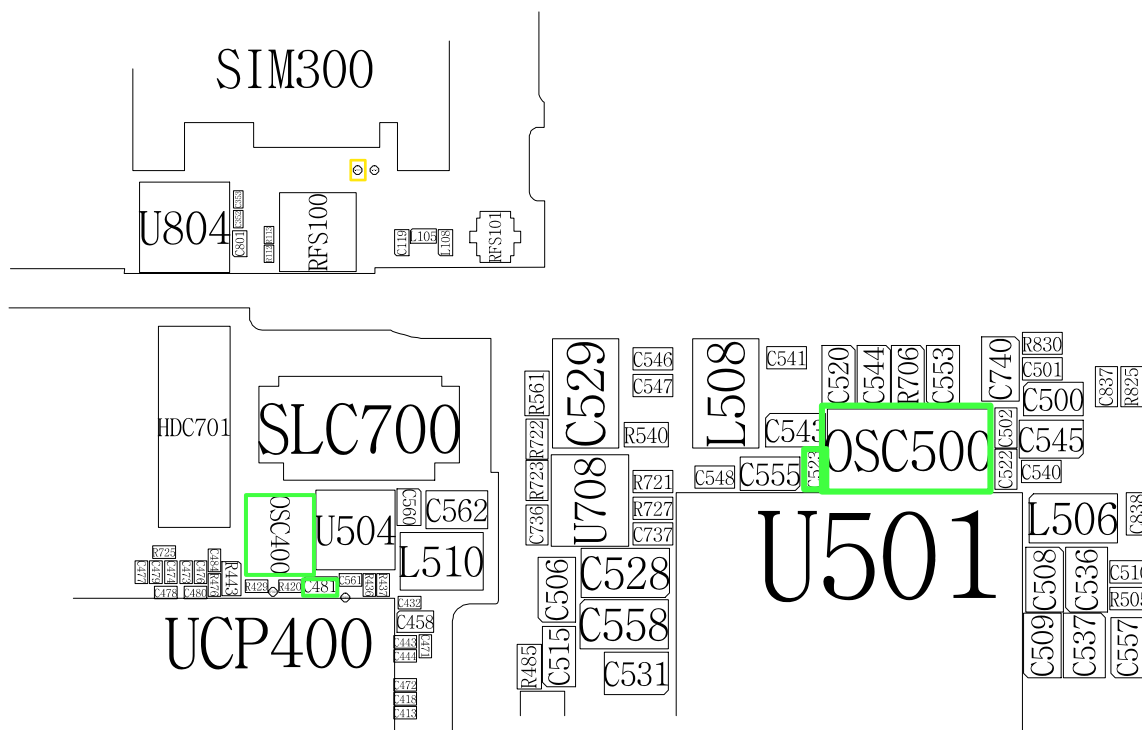
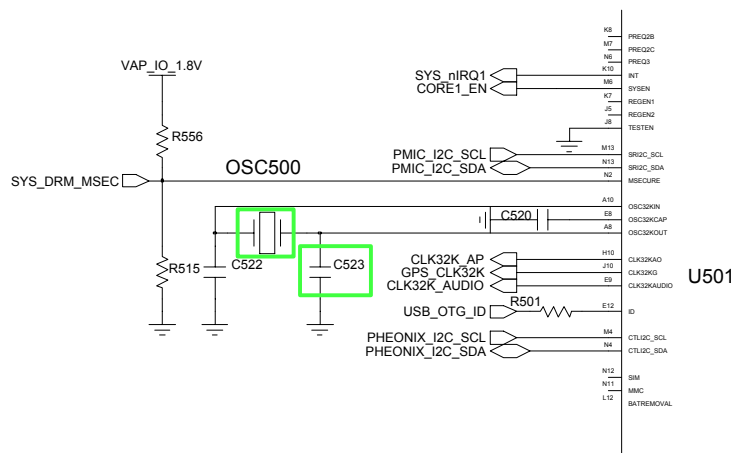
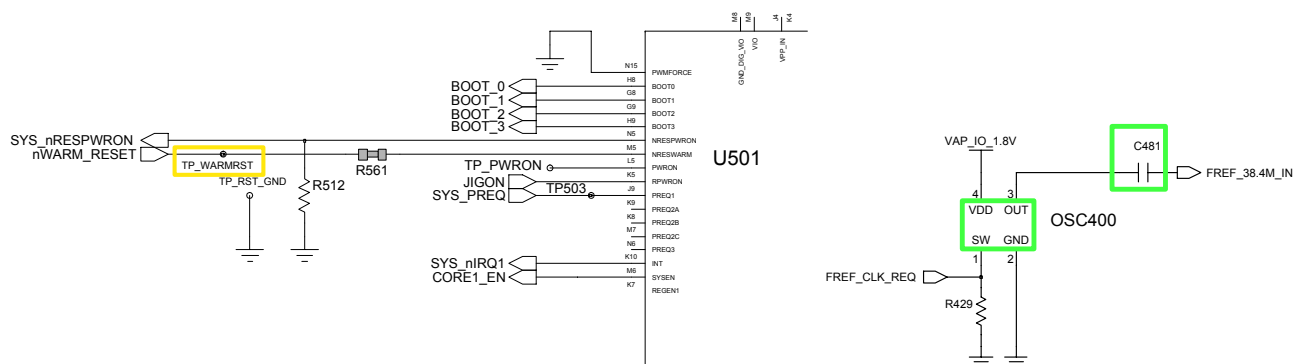
8-3-1. Power On



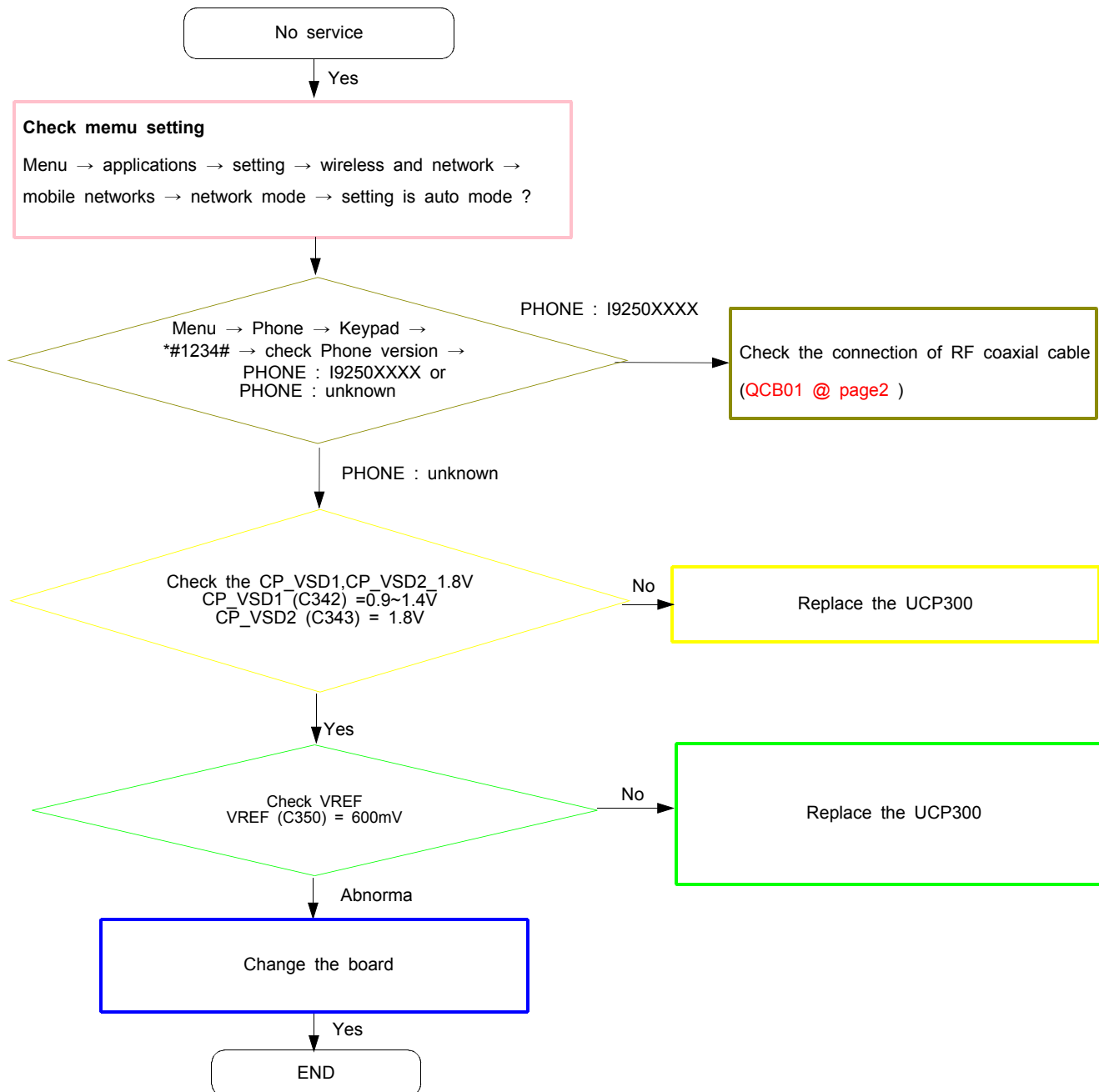


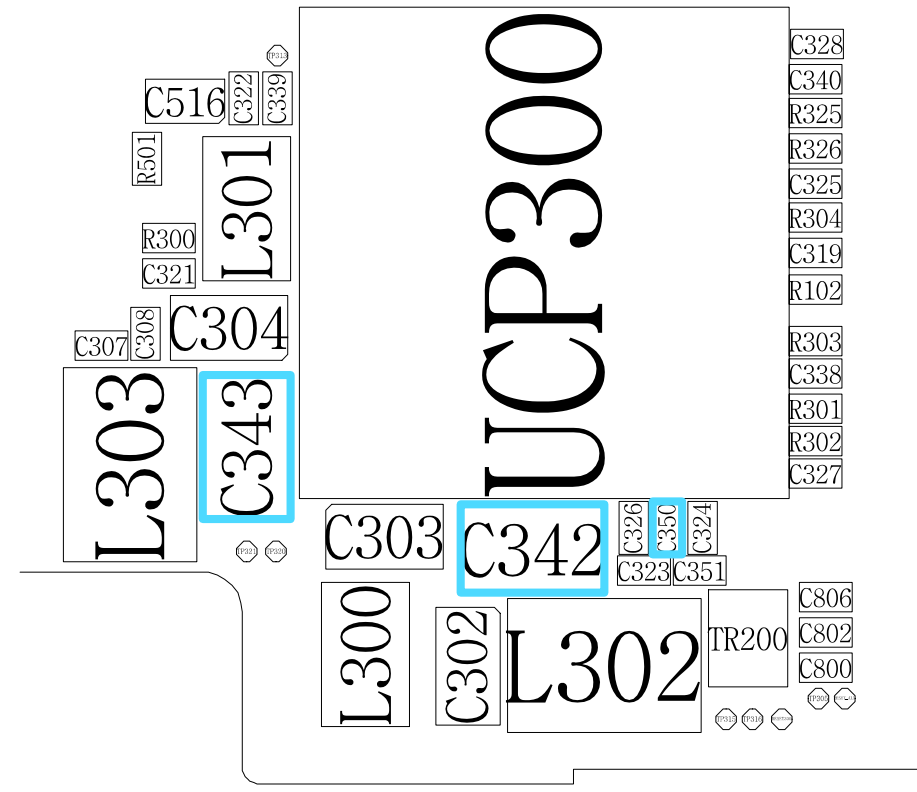
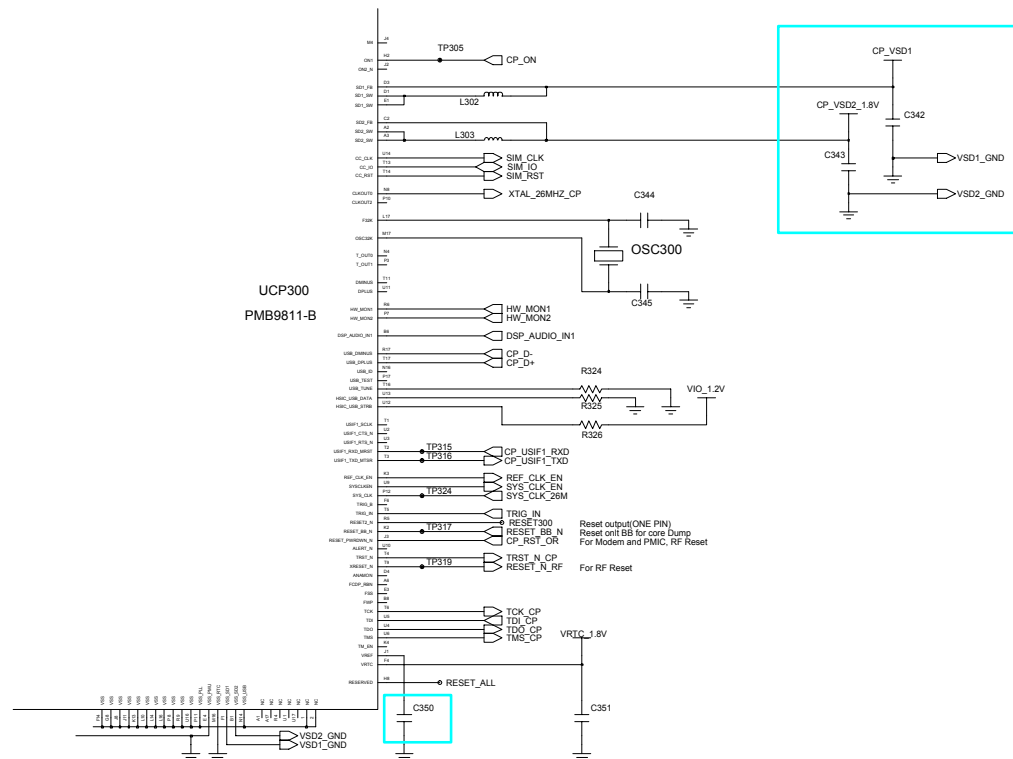
8-3-2. Initial



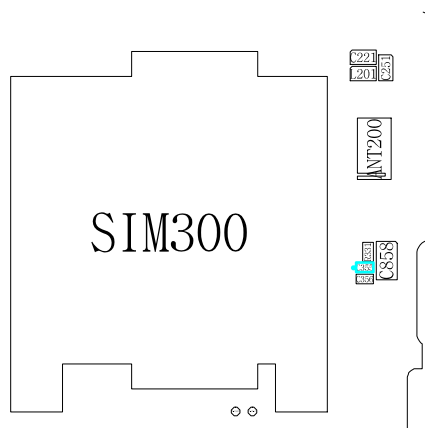
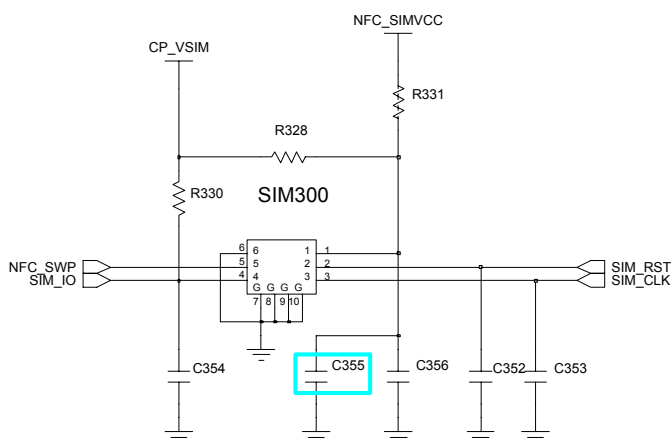
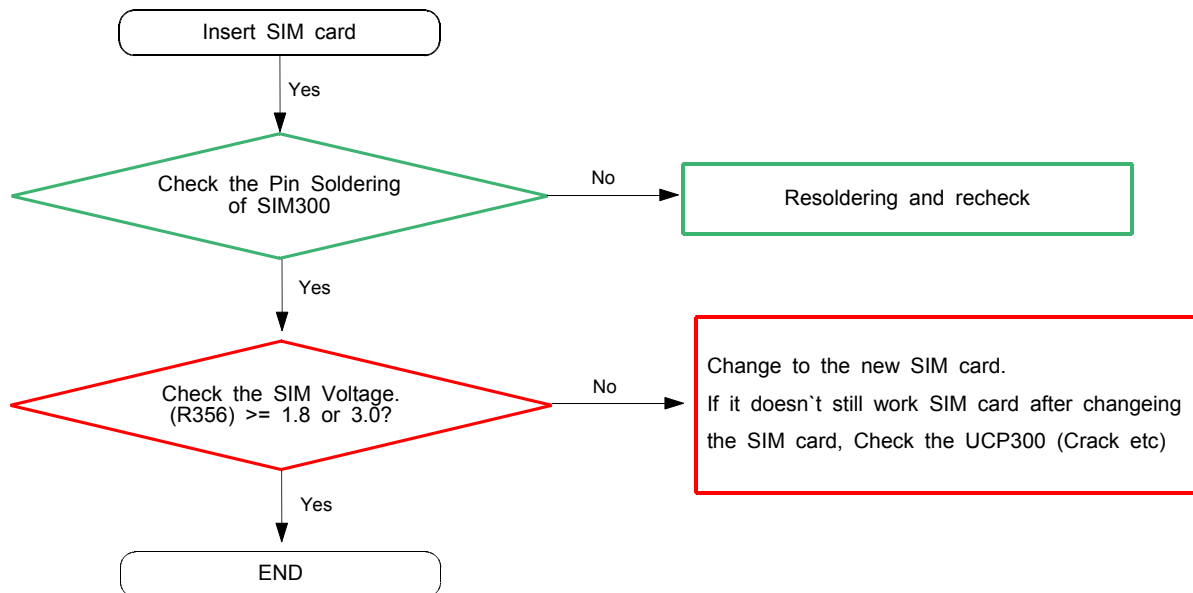


8-3-3. No Service

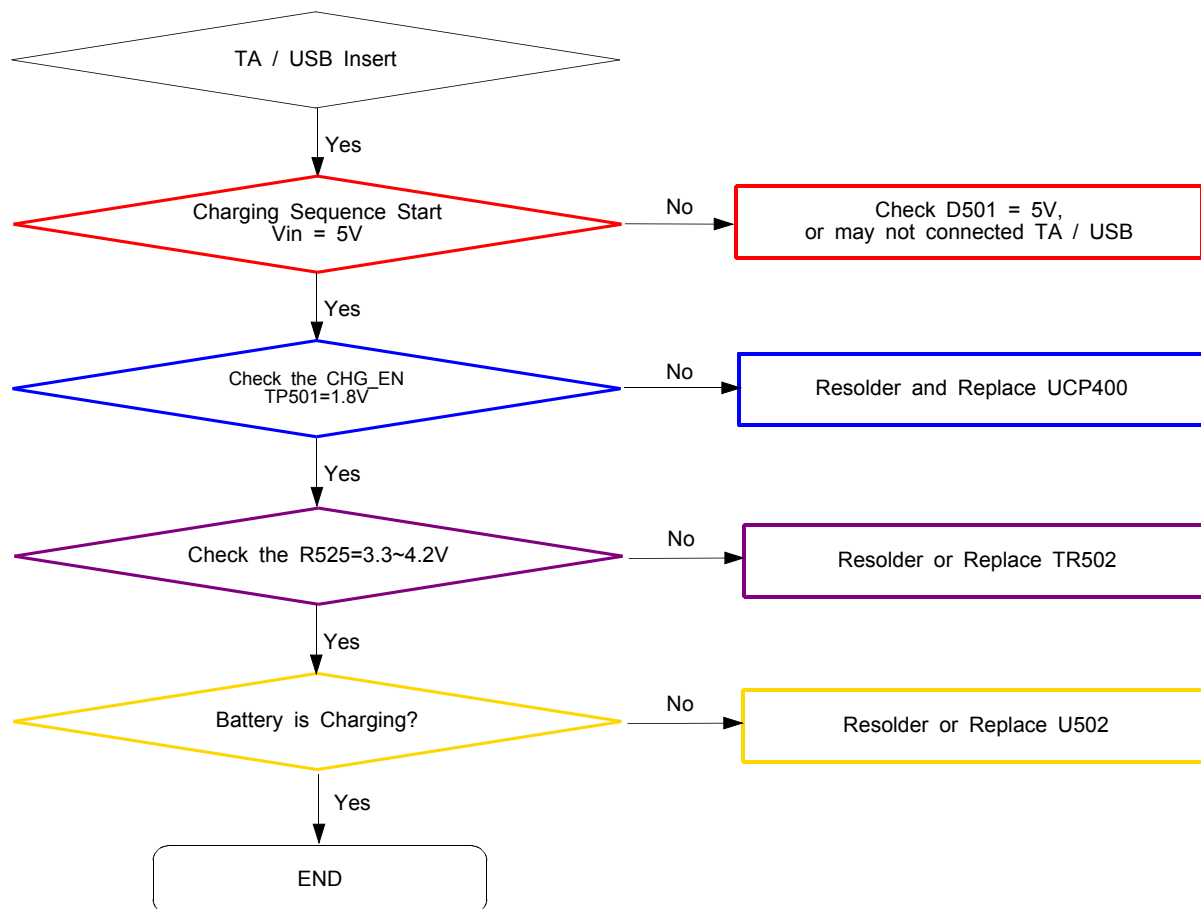


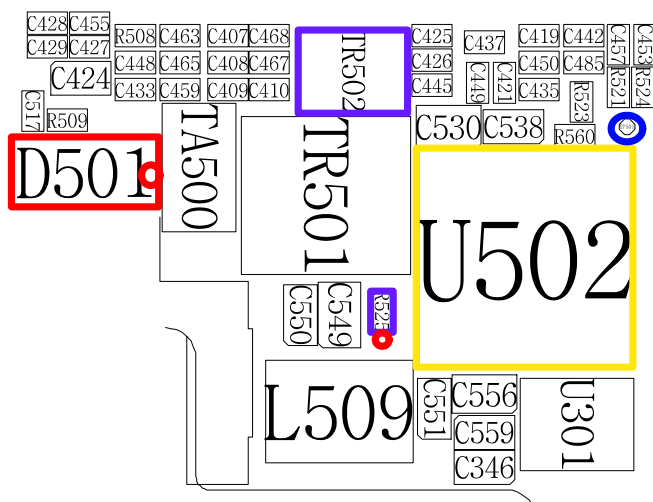
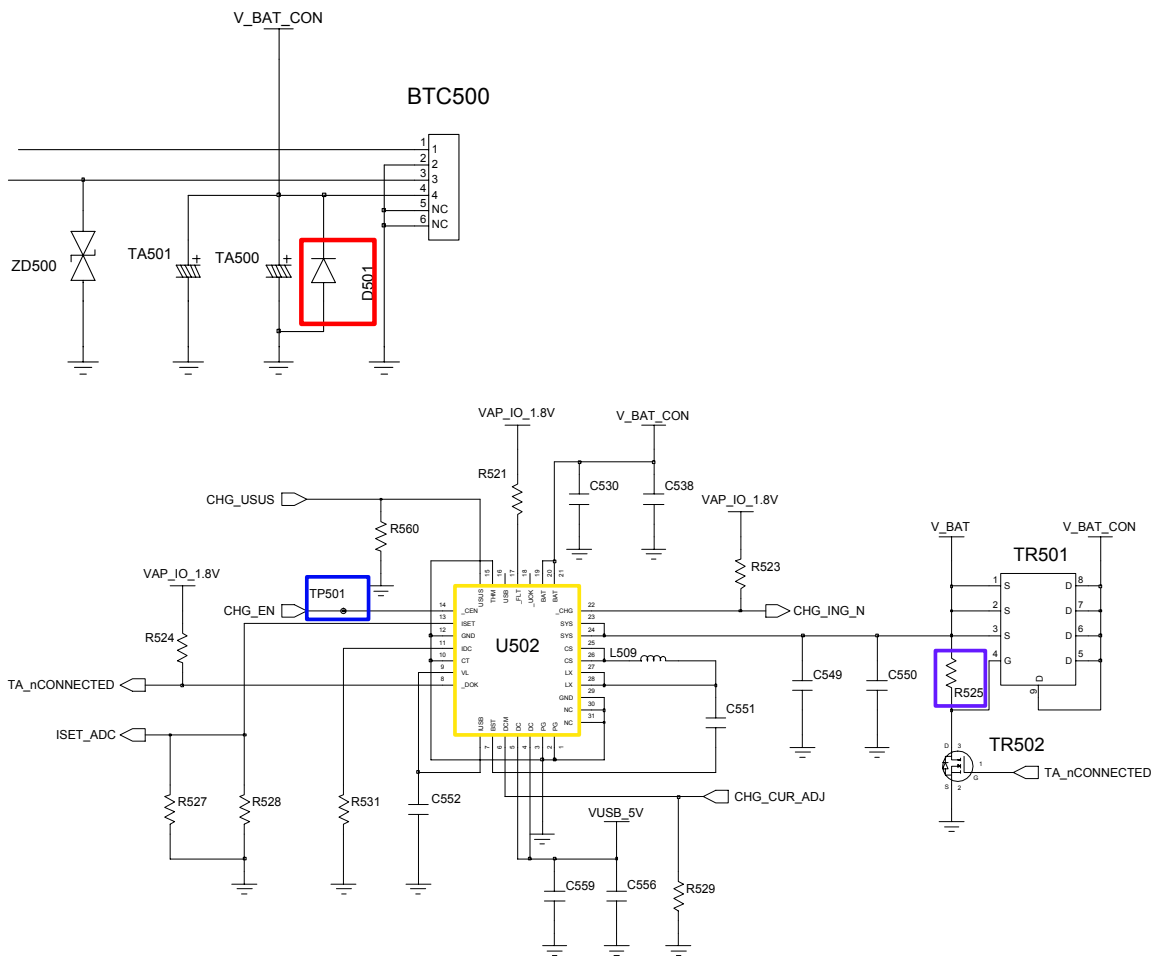


8-3-4. Sim Part

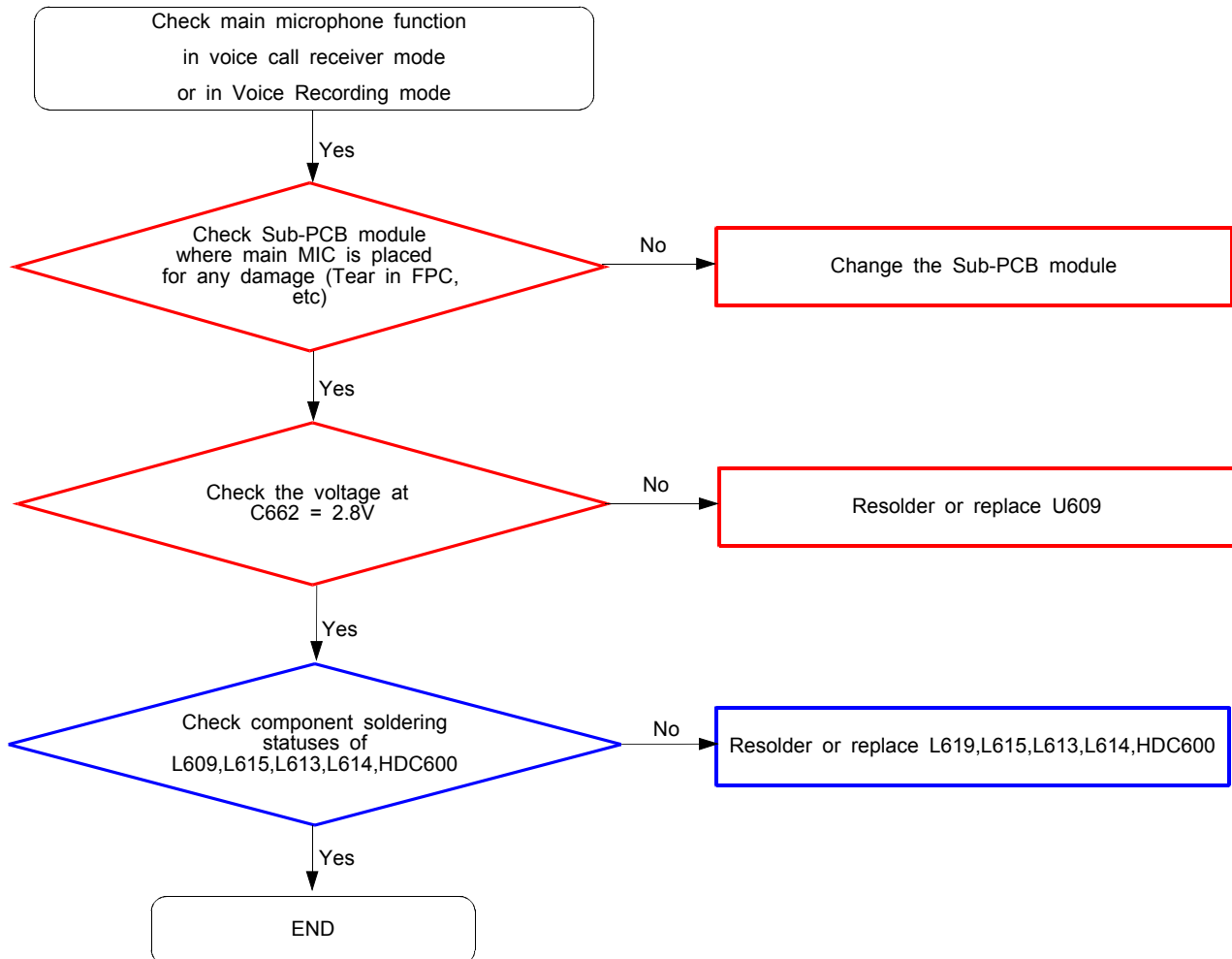


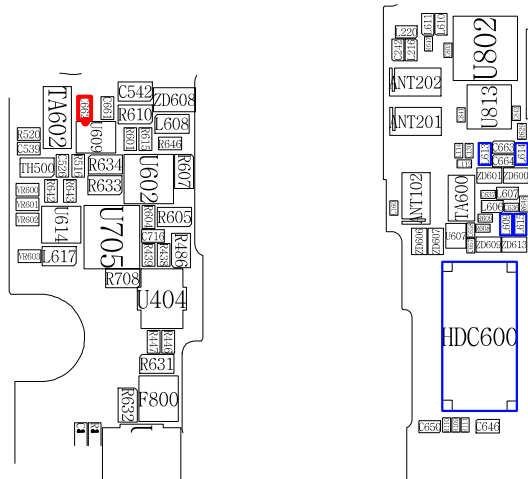
8-3-5. Charging Part



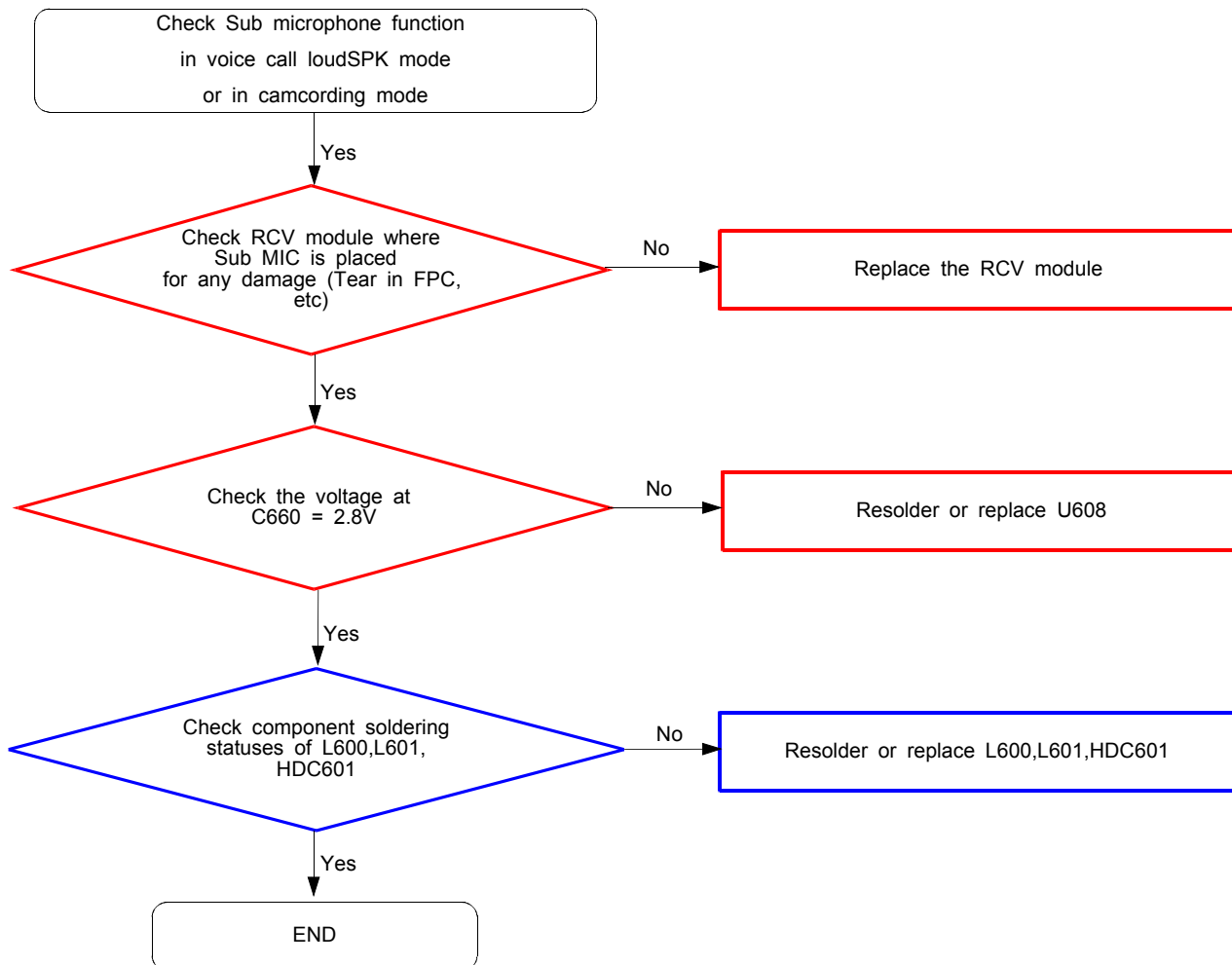


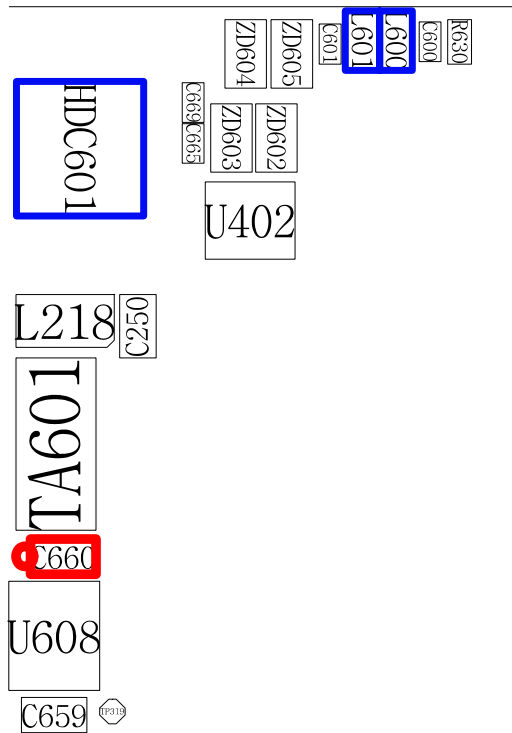
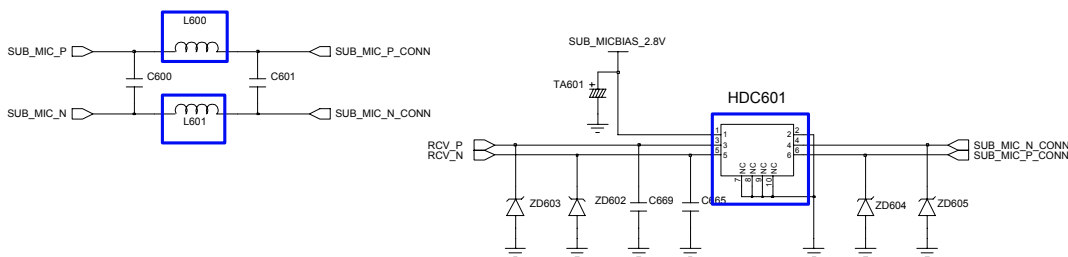
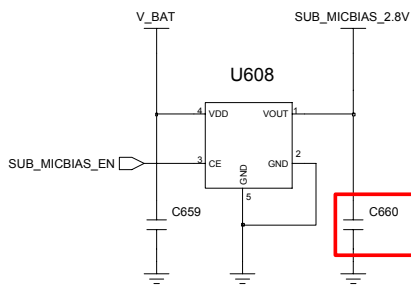
8-3-6. Microphone Part (Main MIC)



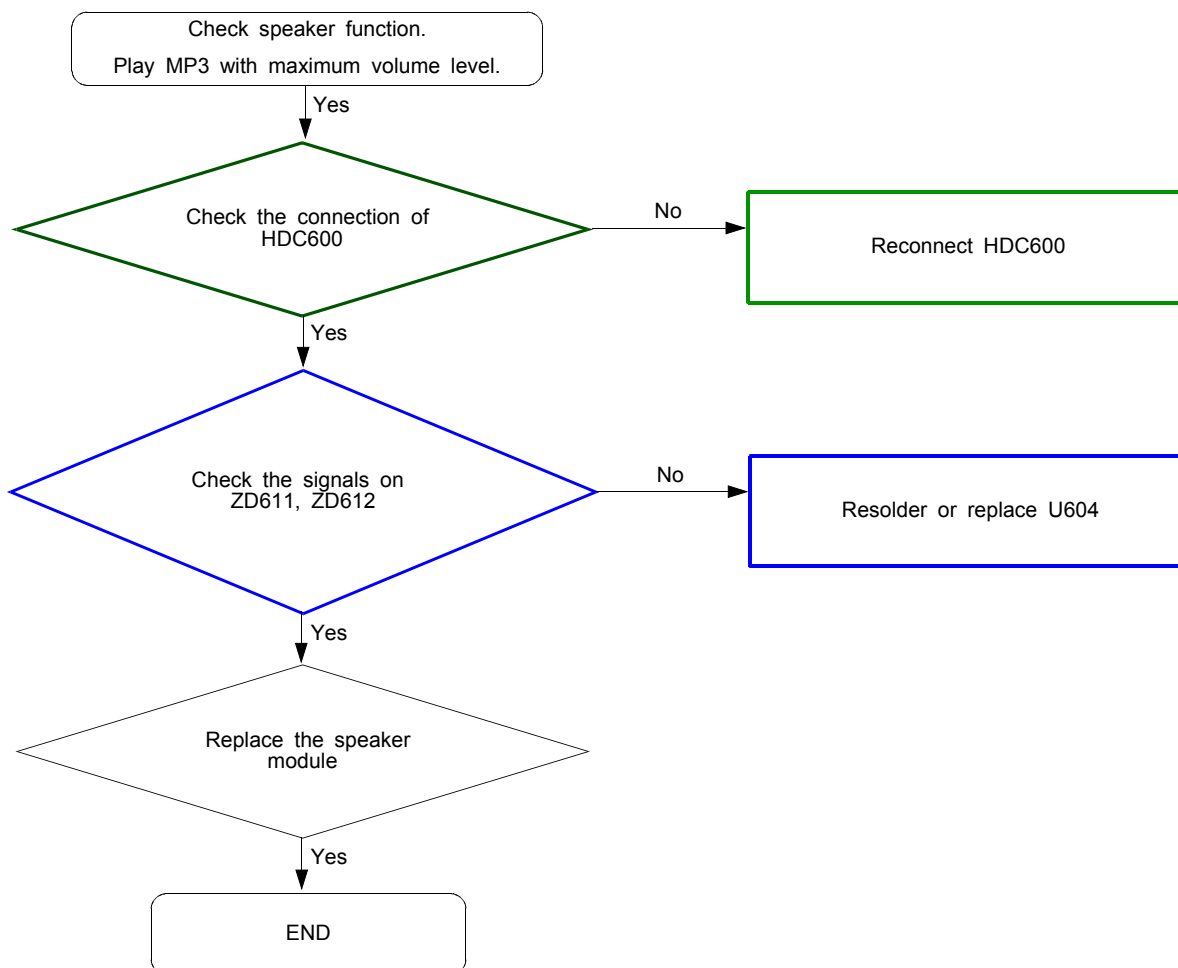


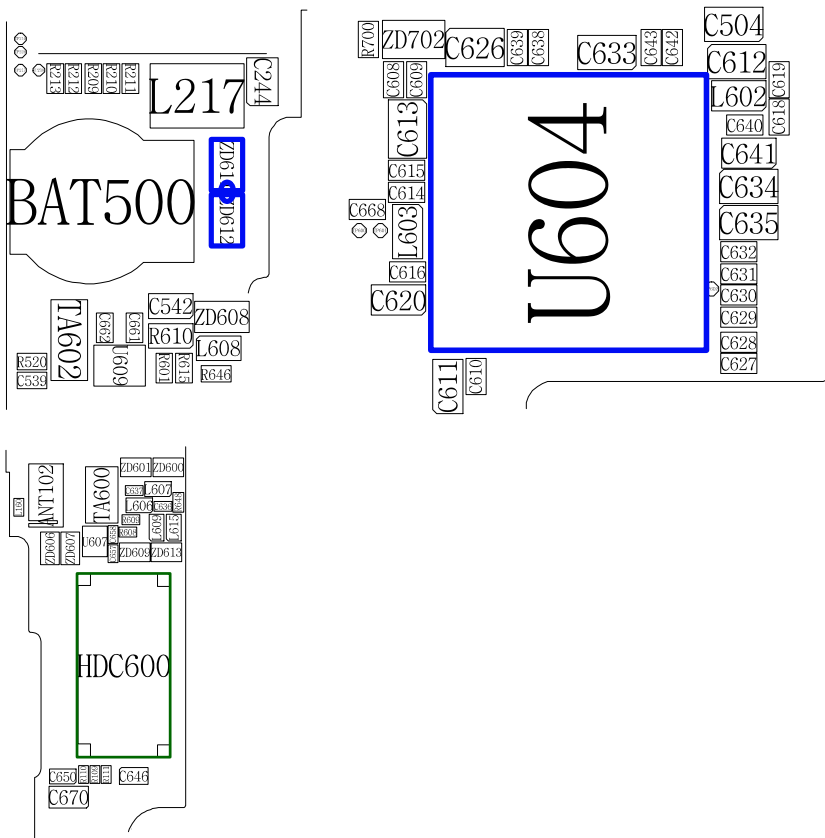
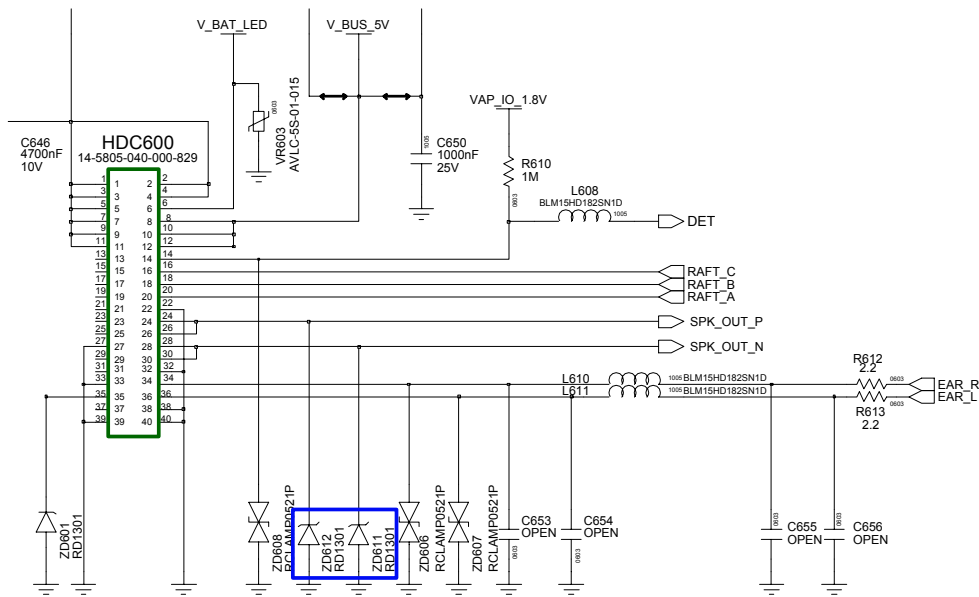
8-3-6-1. Microphone Part (Sub MIC)



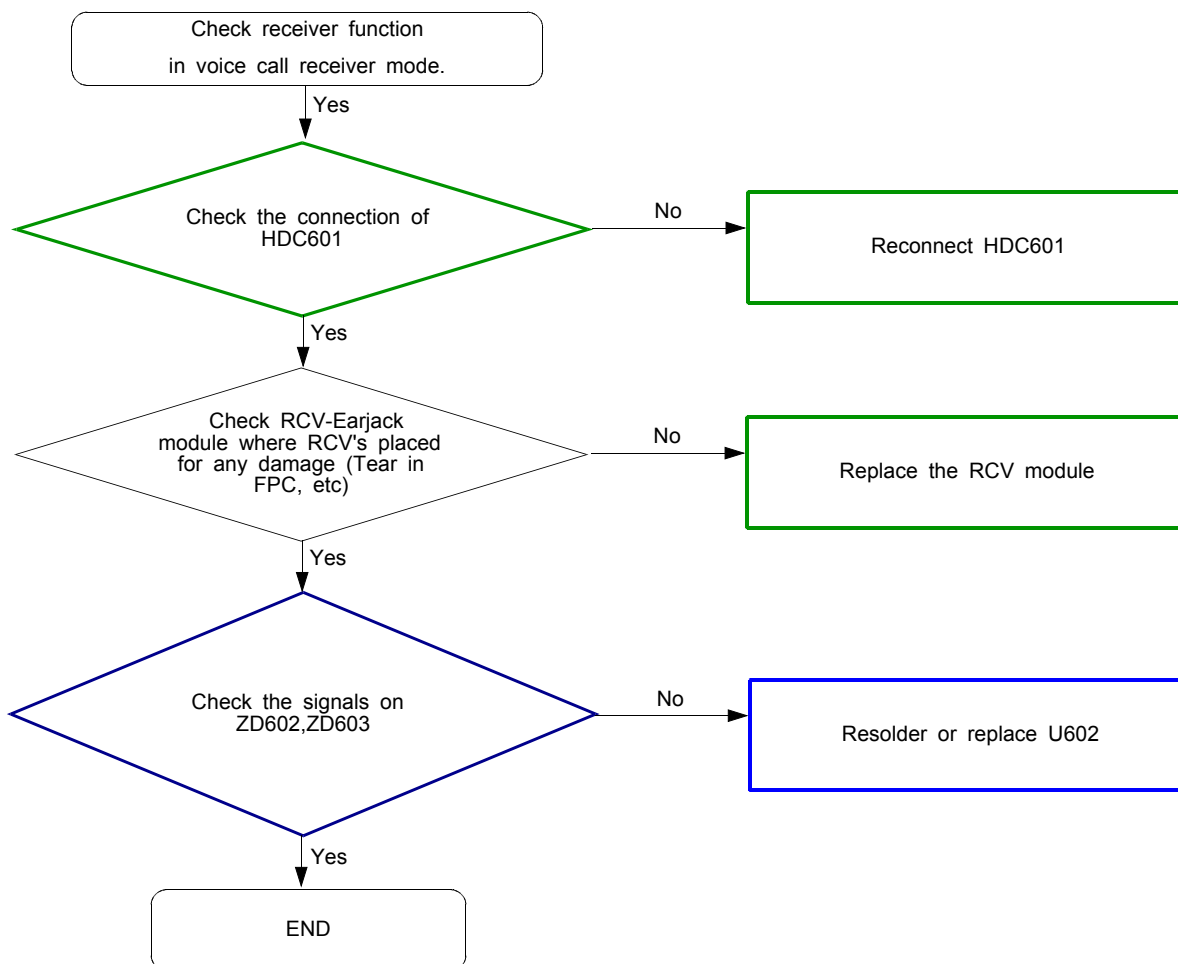


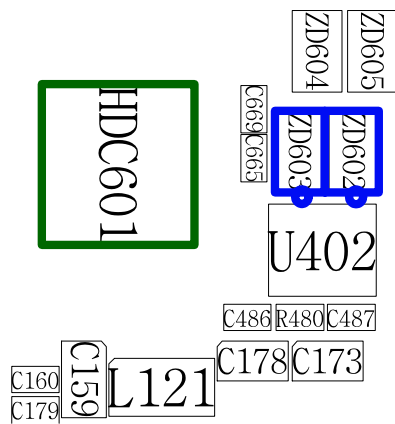
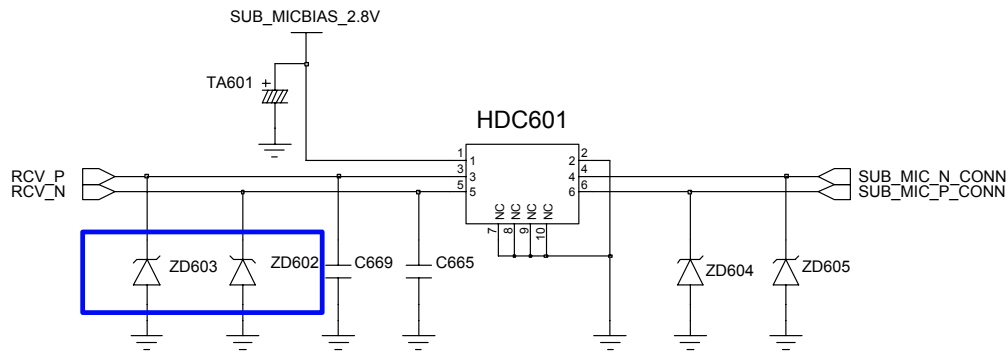
8-3-7. Speaker Part



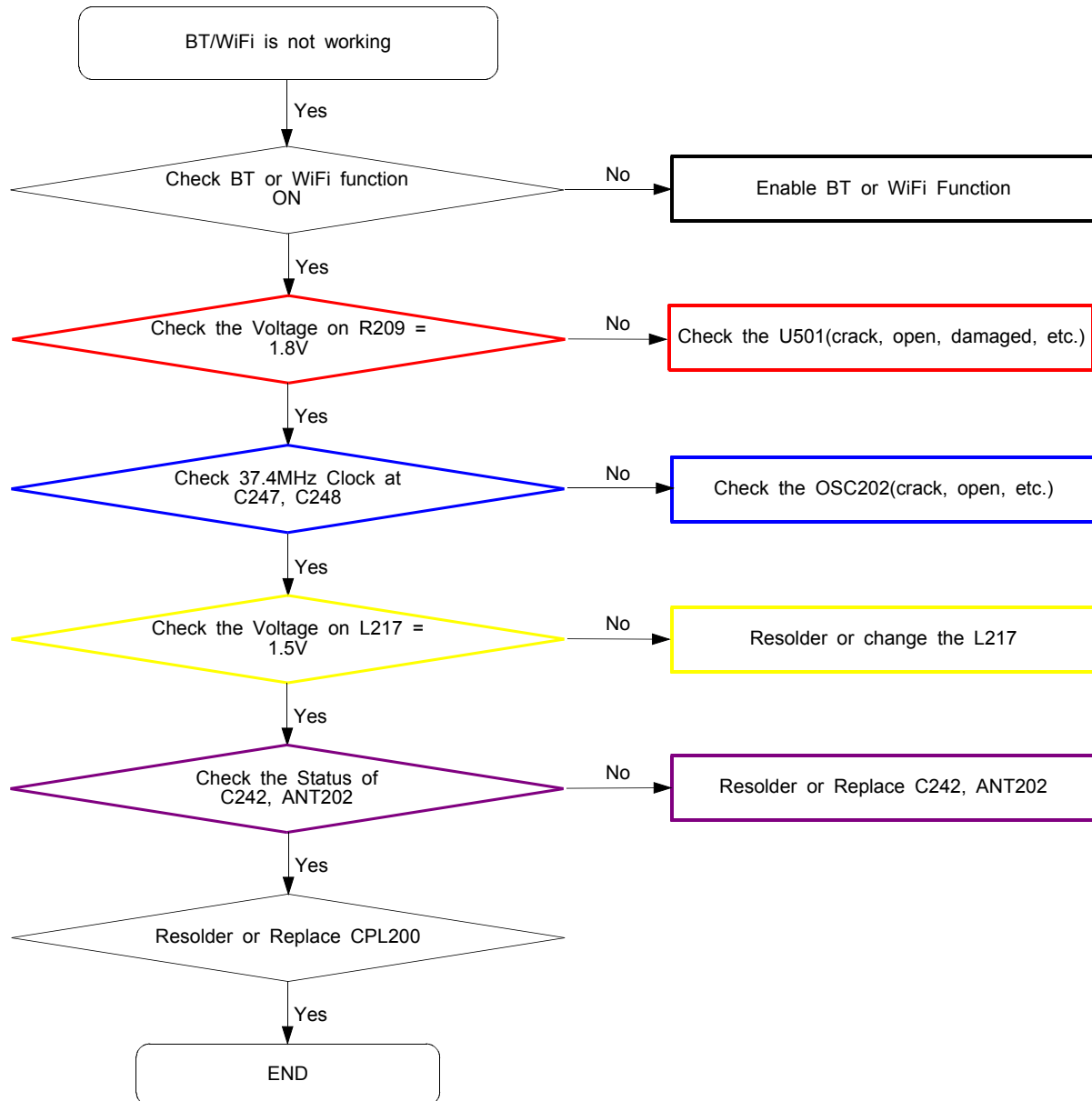


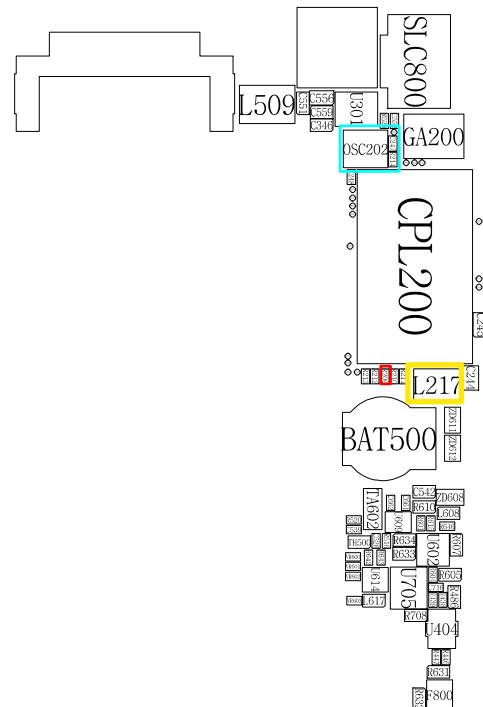
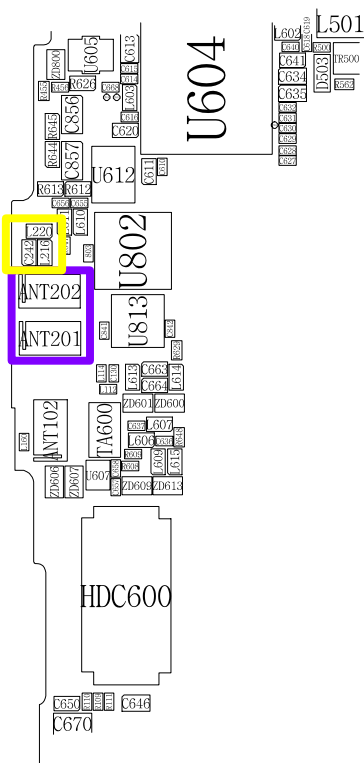
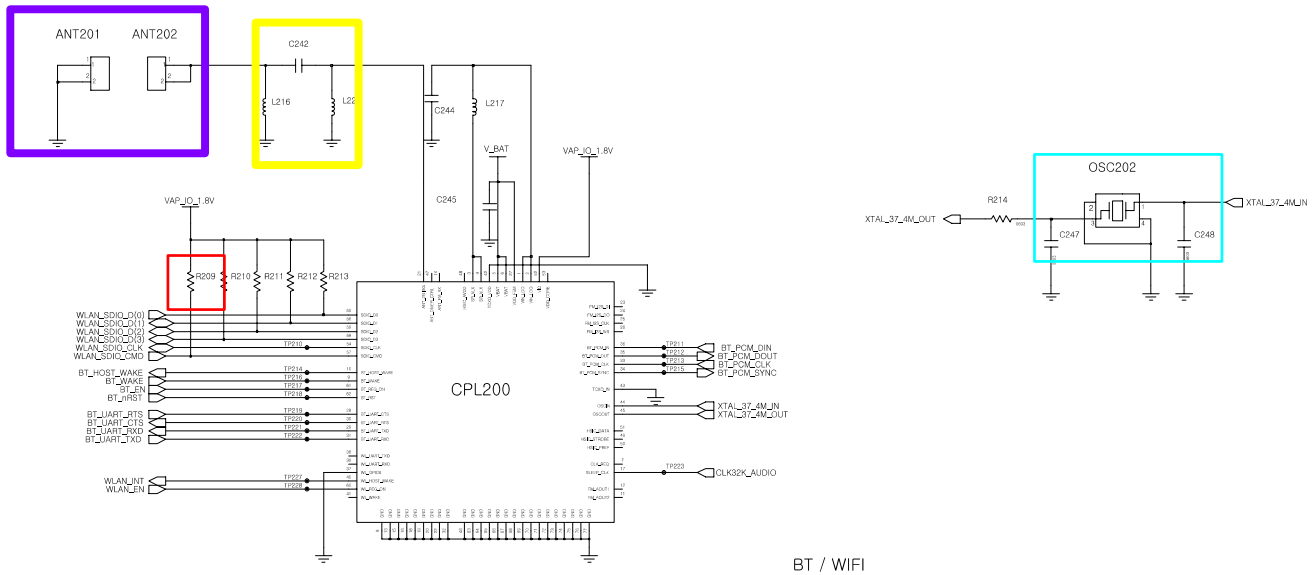
8-3-8. Receiver Part



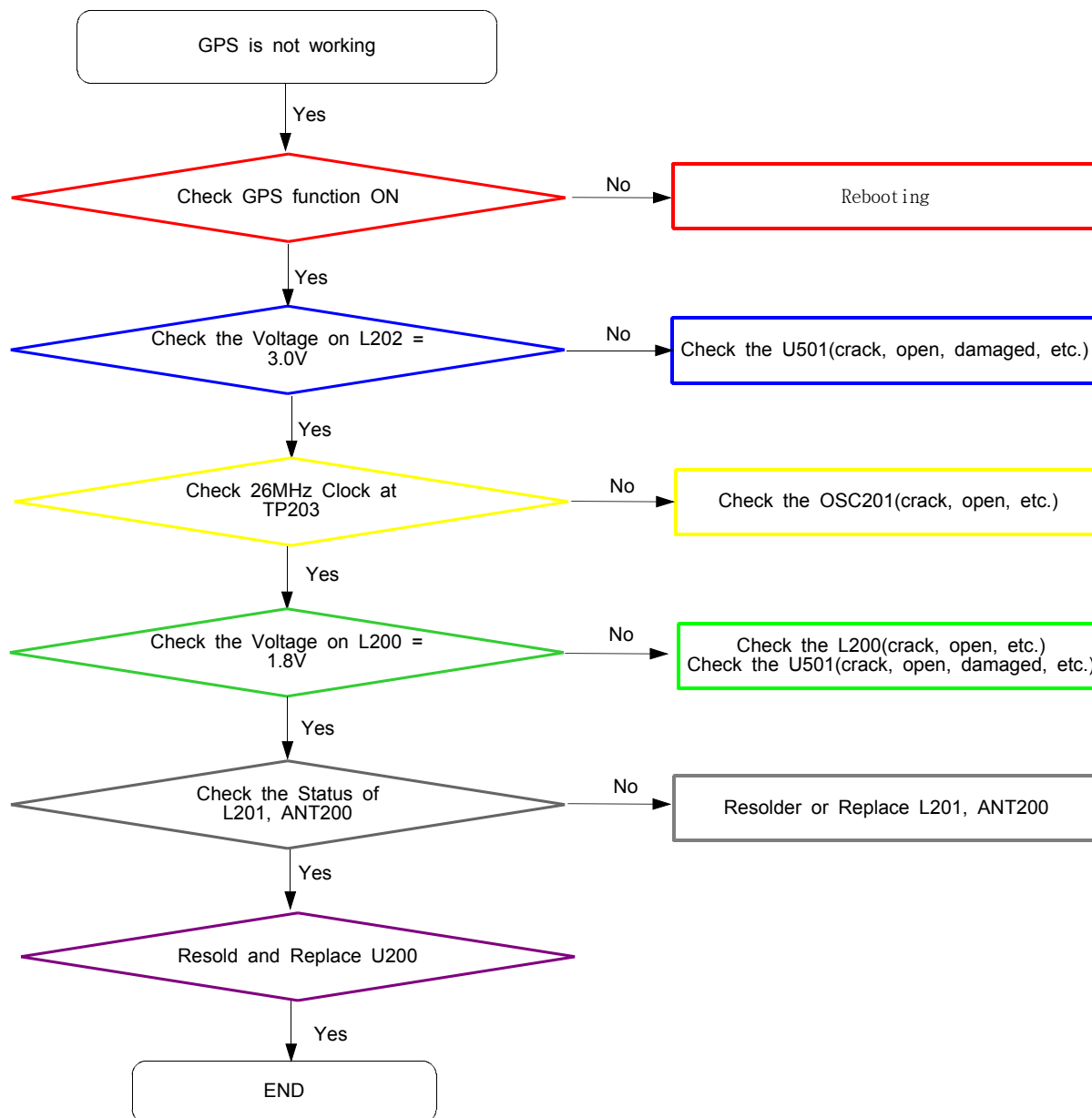


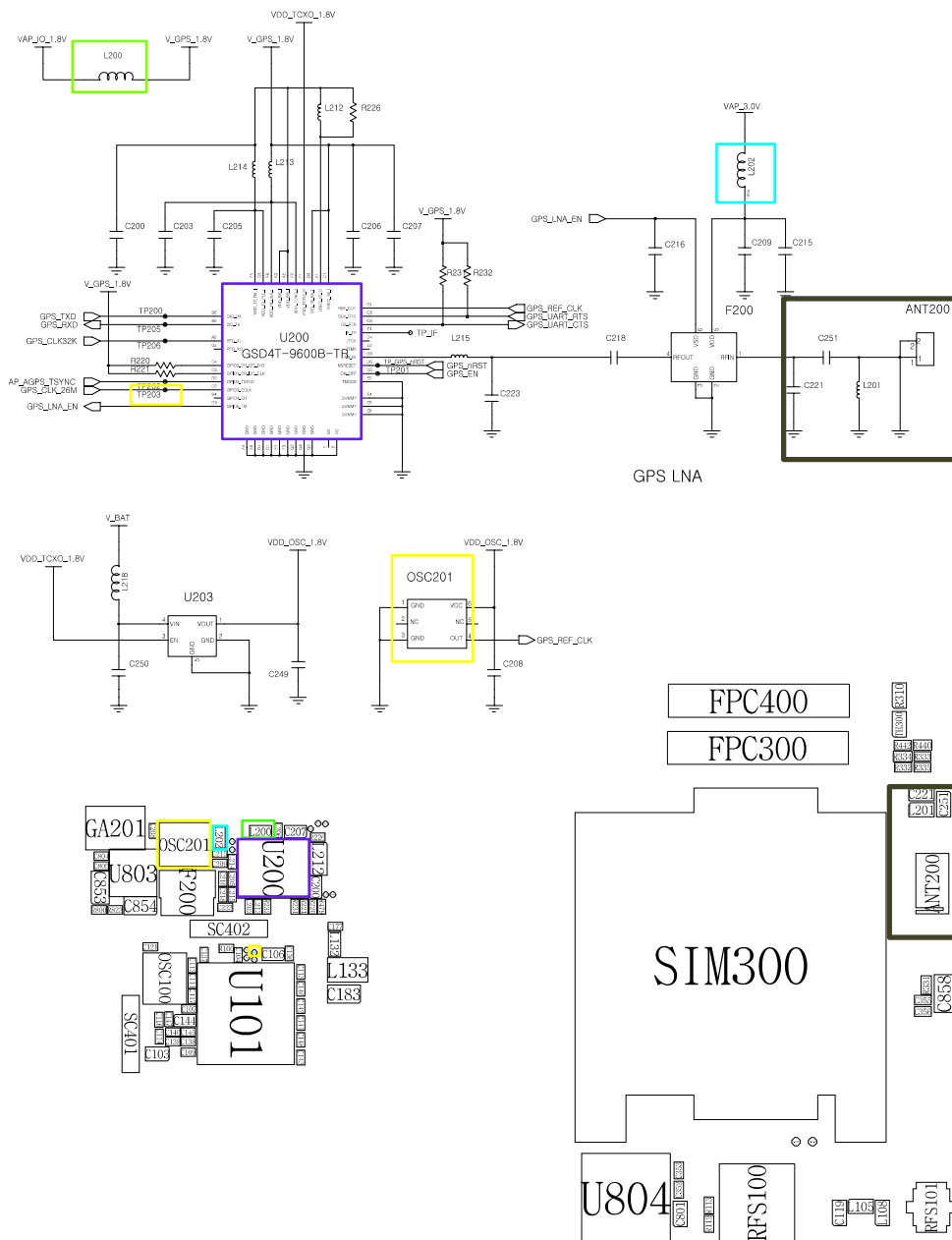
8-3-9. BT/WIFI



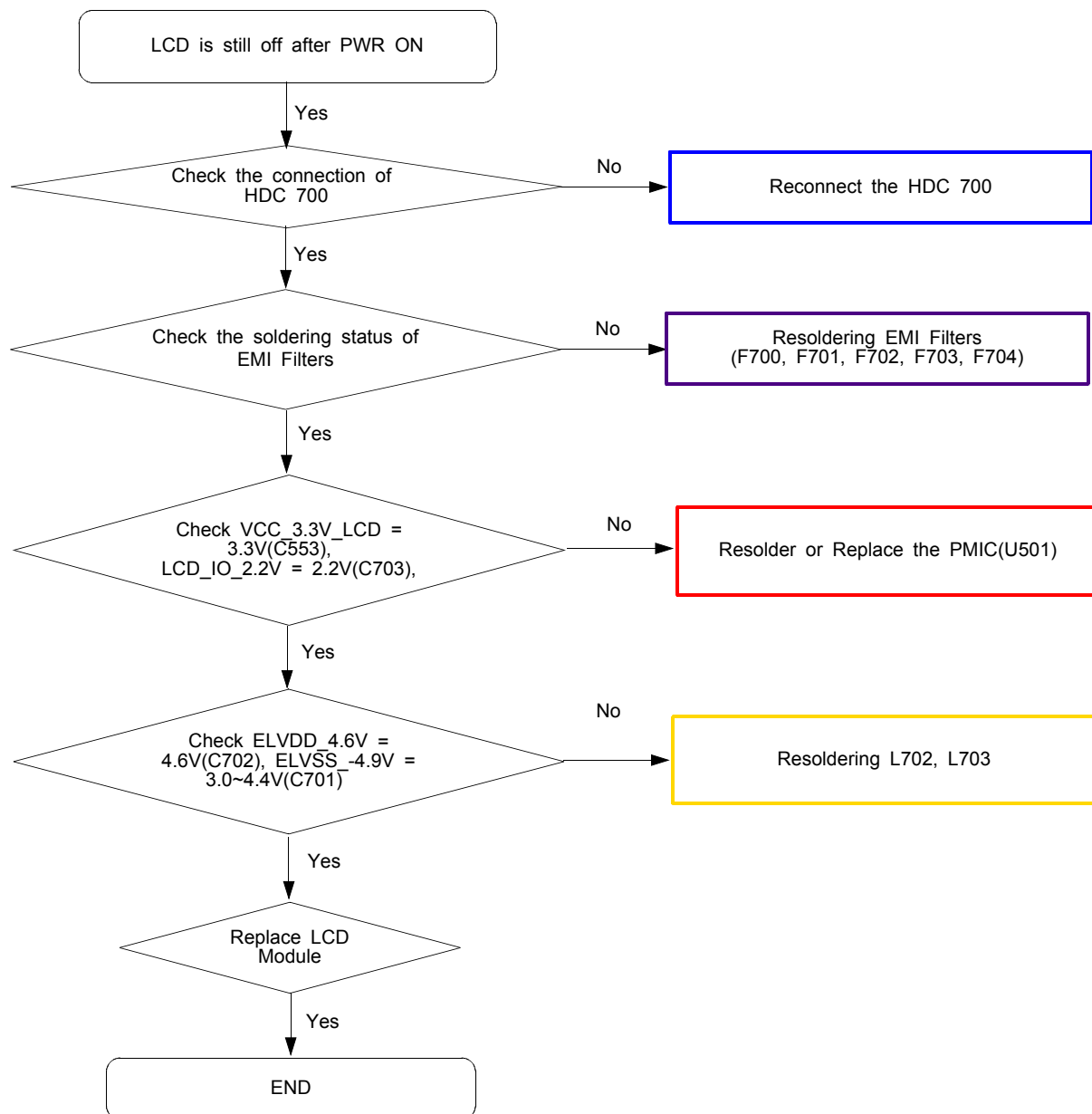


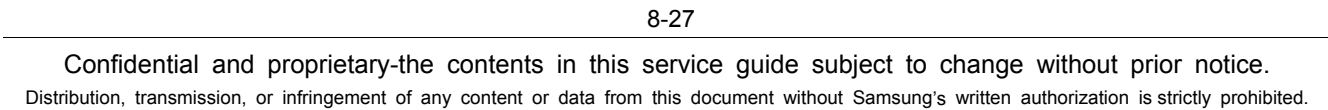
8-3-10. GPS



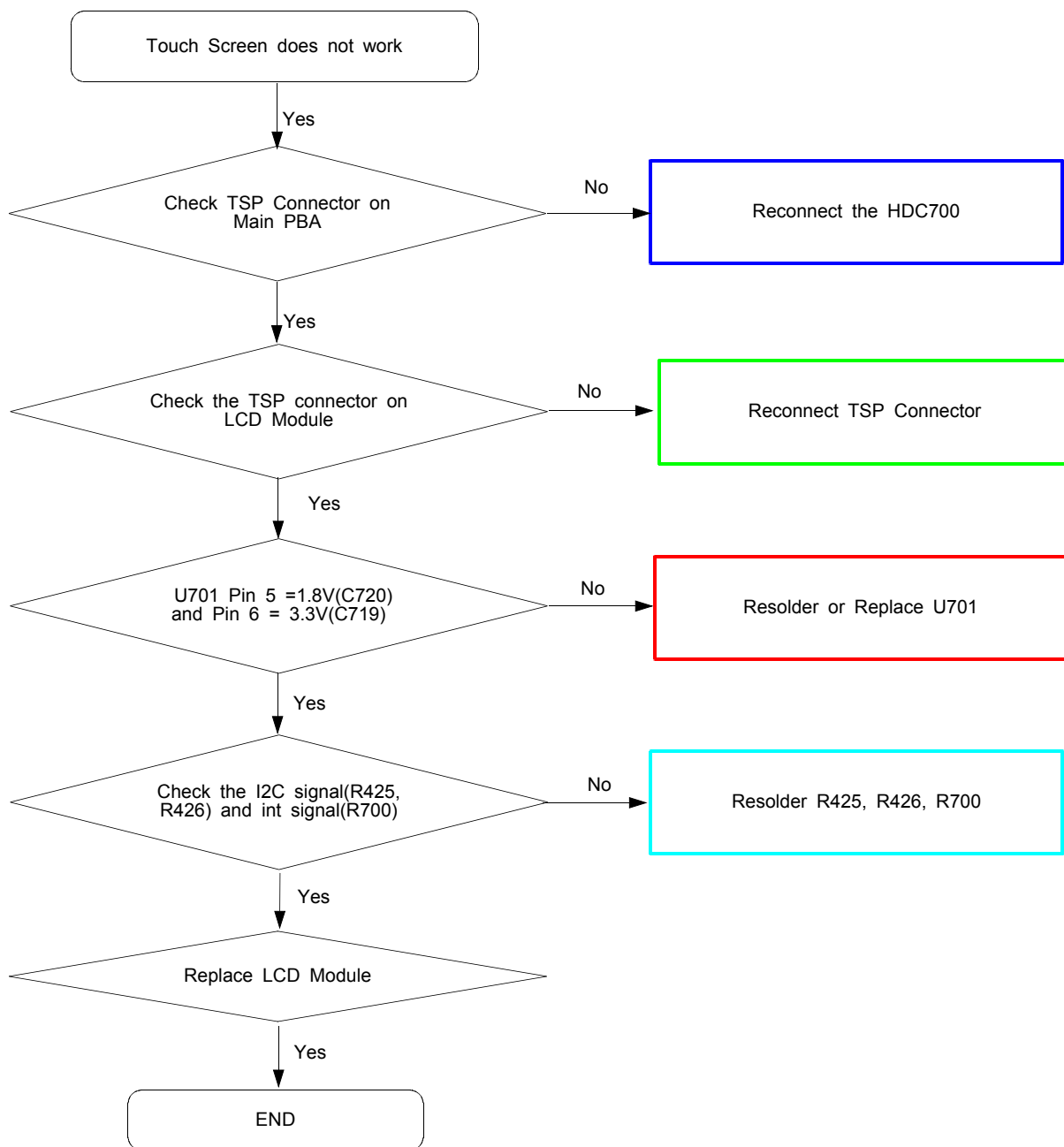


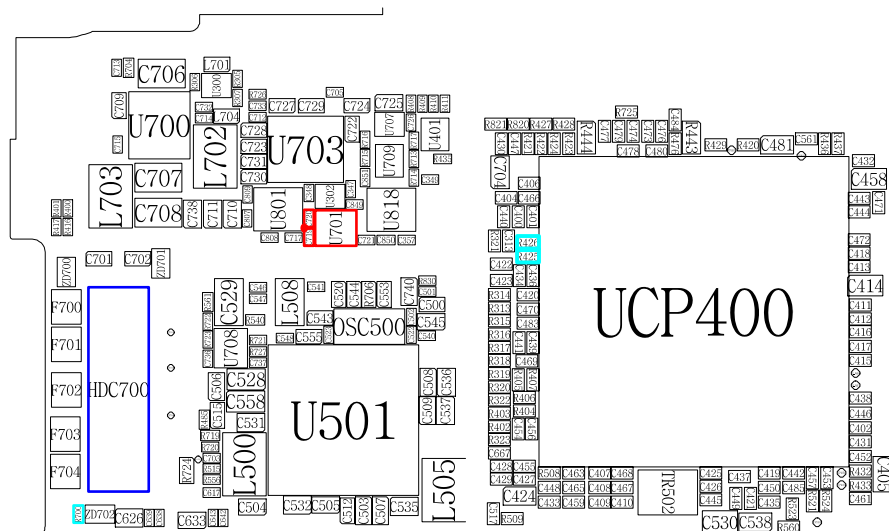
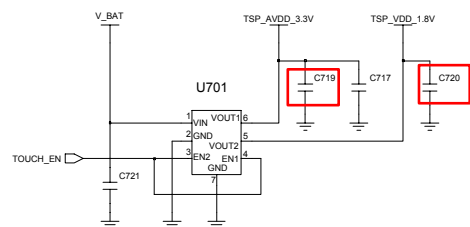
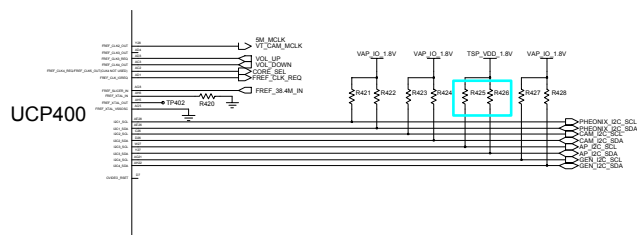
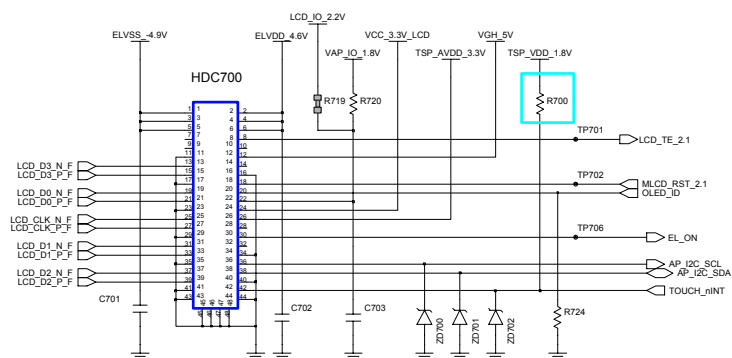
8-3-11. LCD



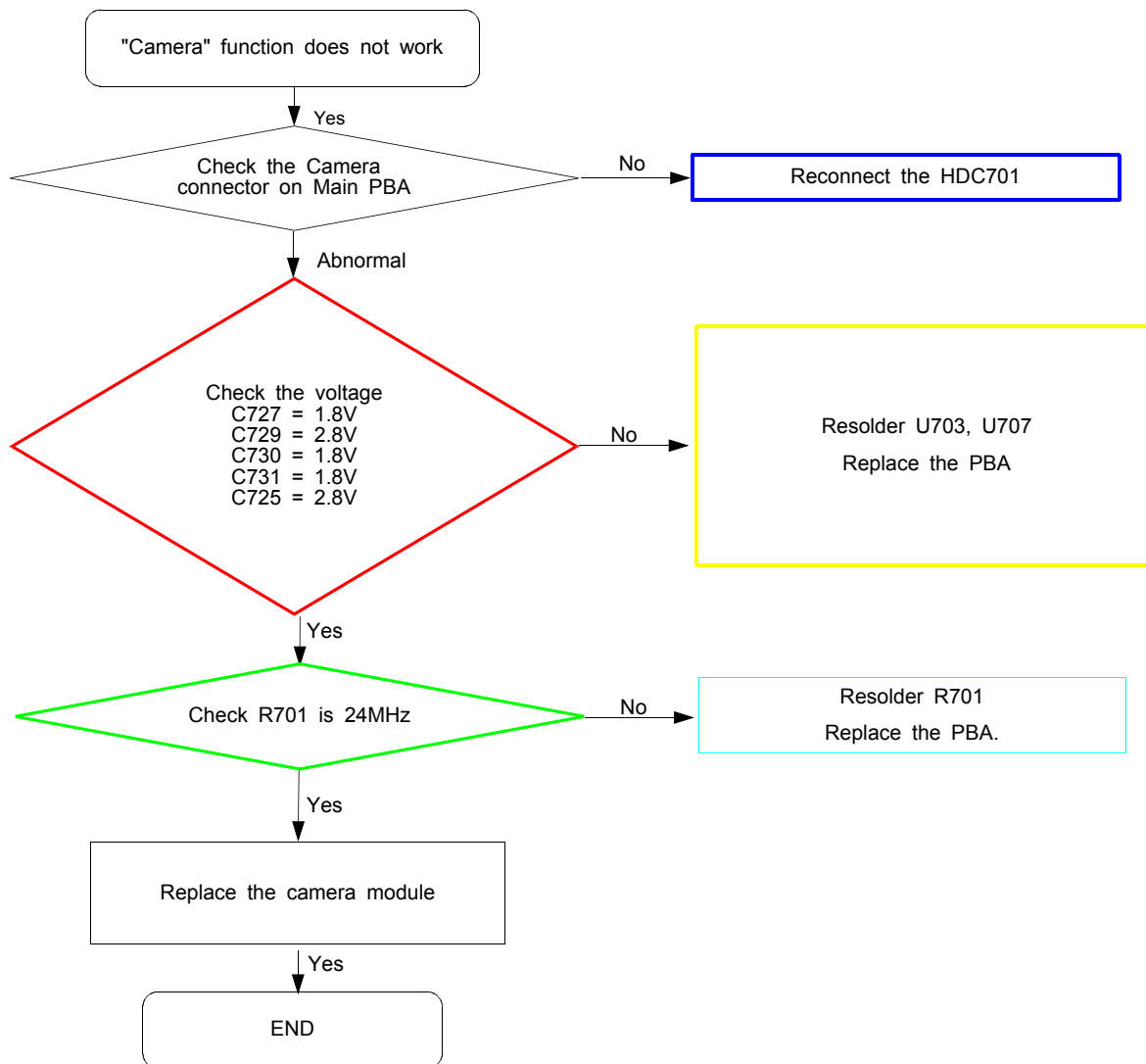


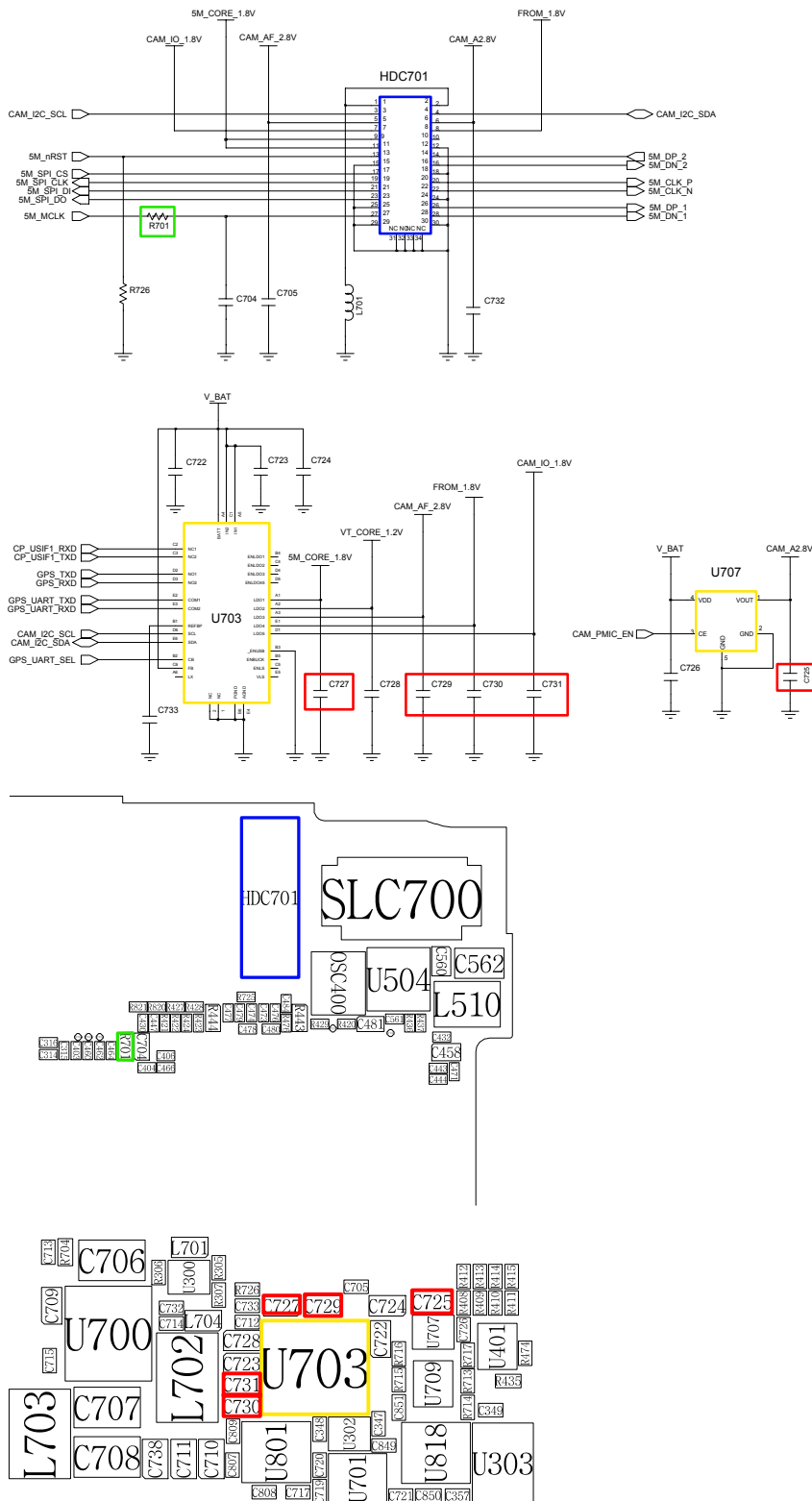
8-3-12. TSP



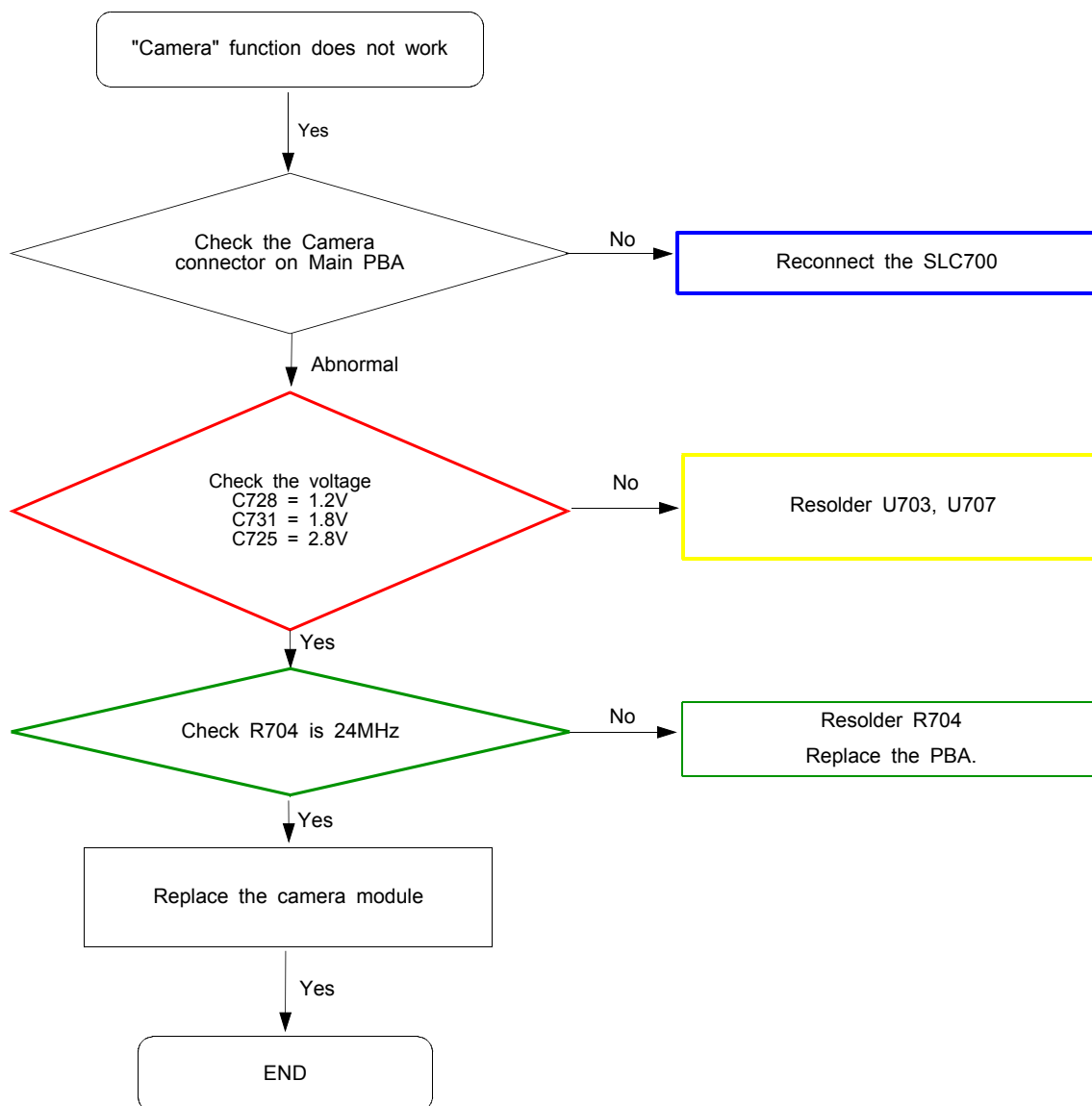


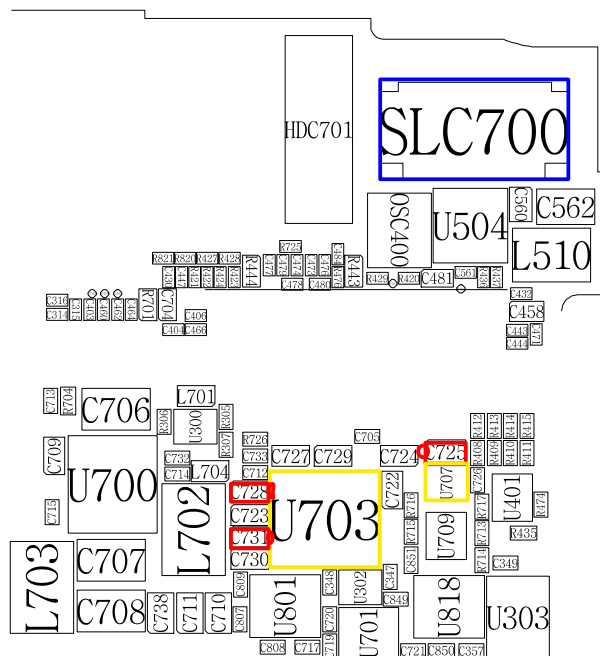
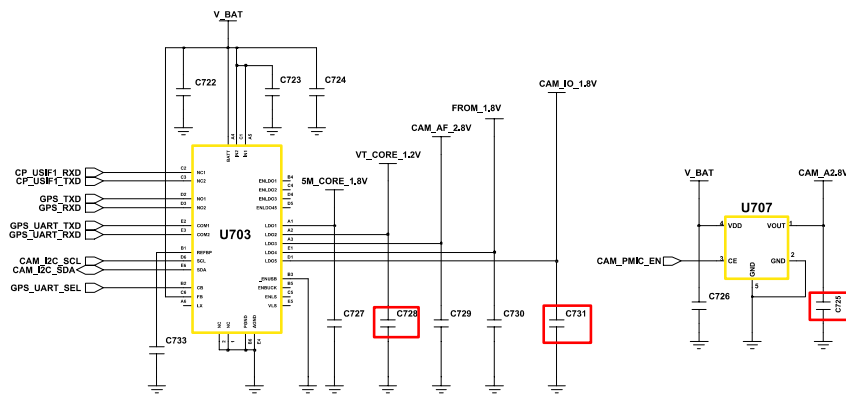
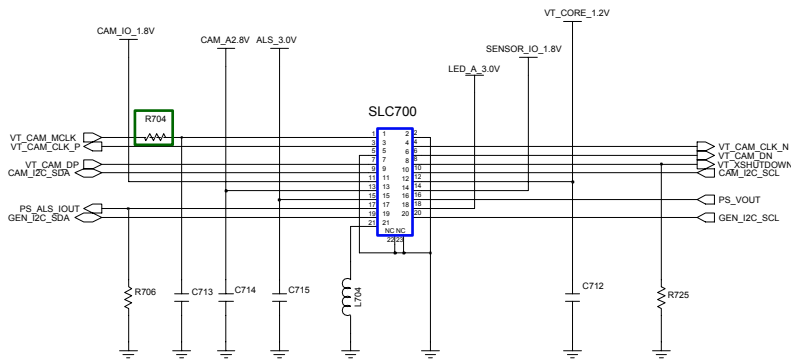
8-3-13. 5M CAM



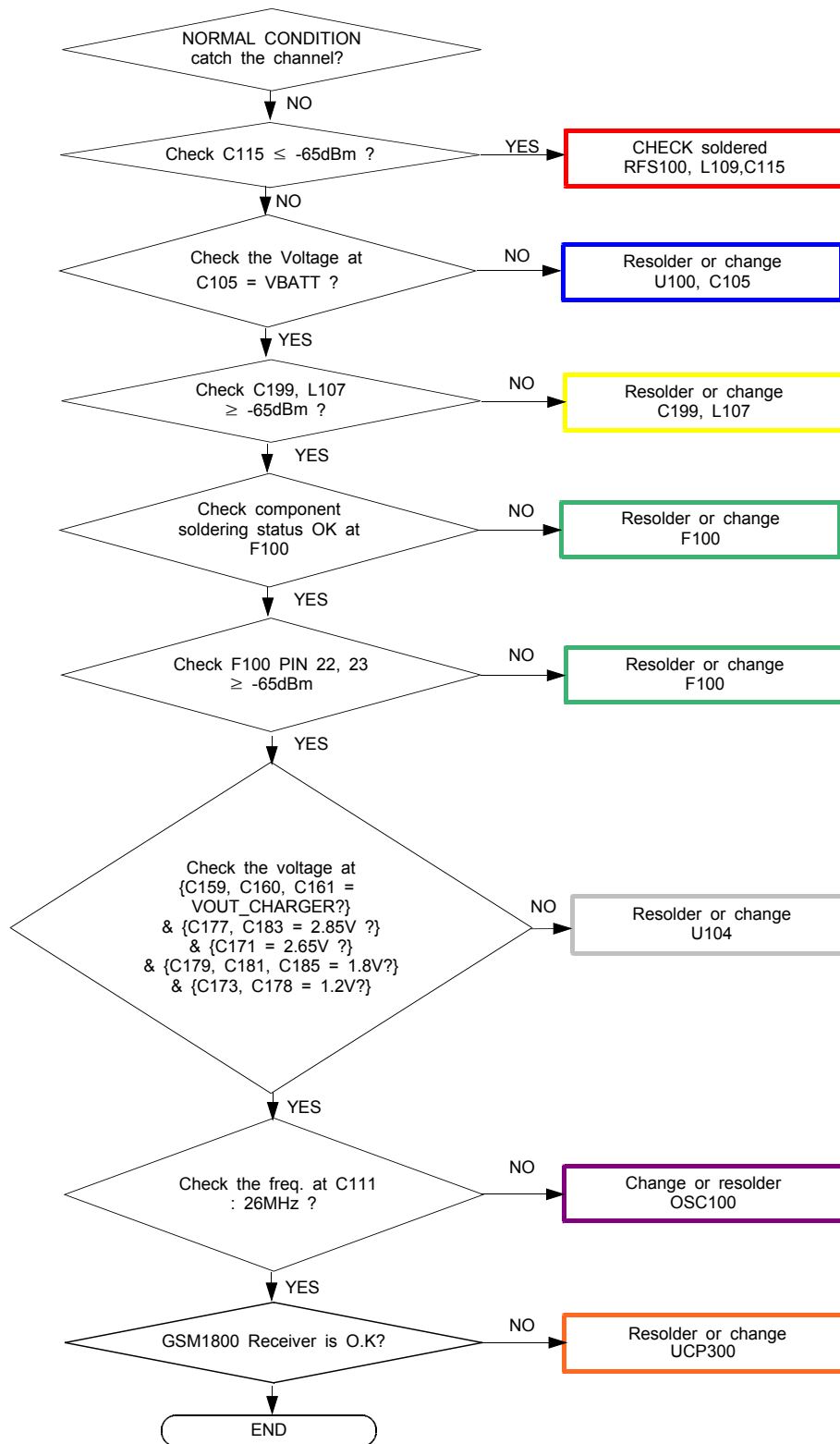


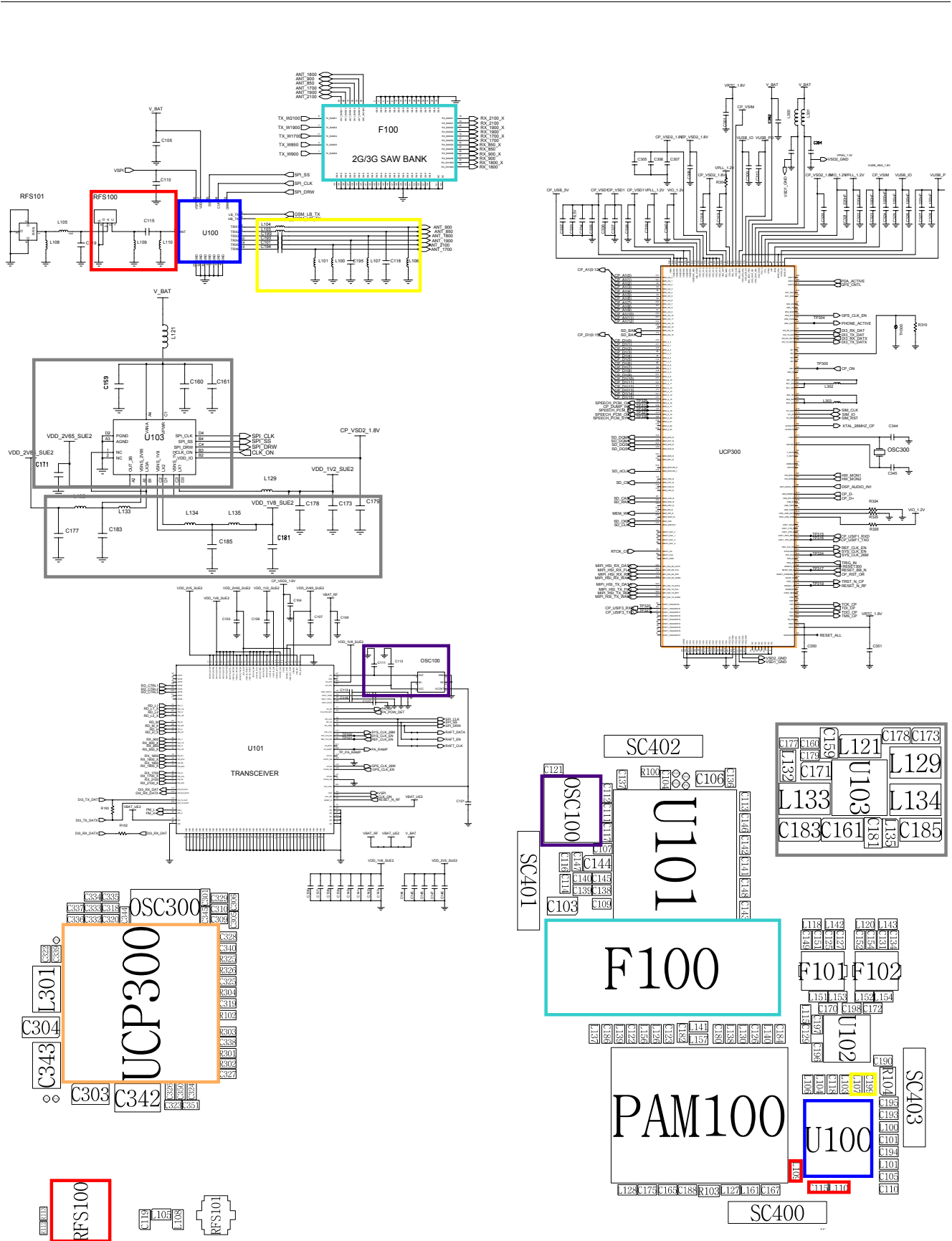
8-3-14. 1.3M CAM





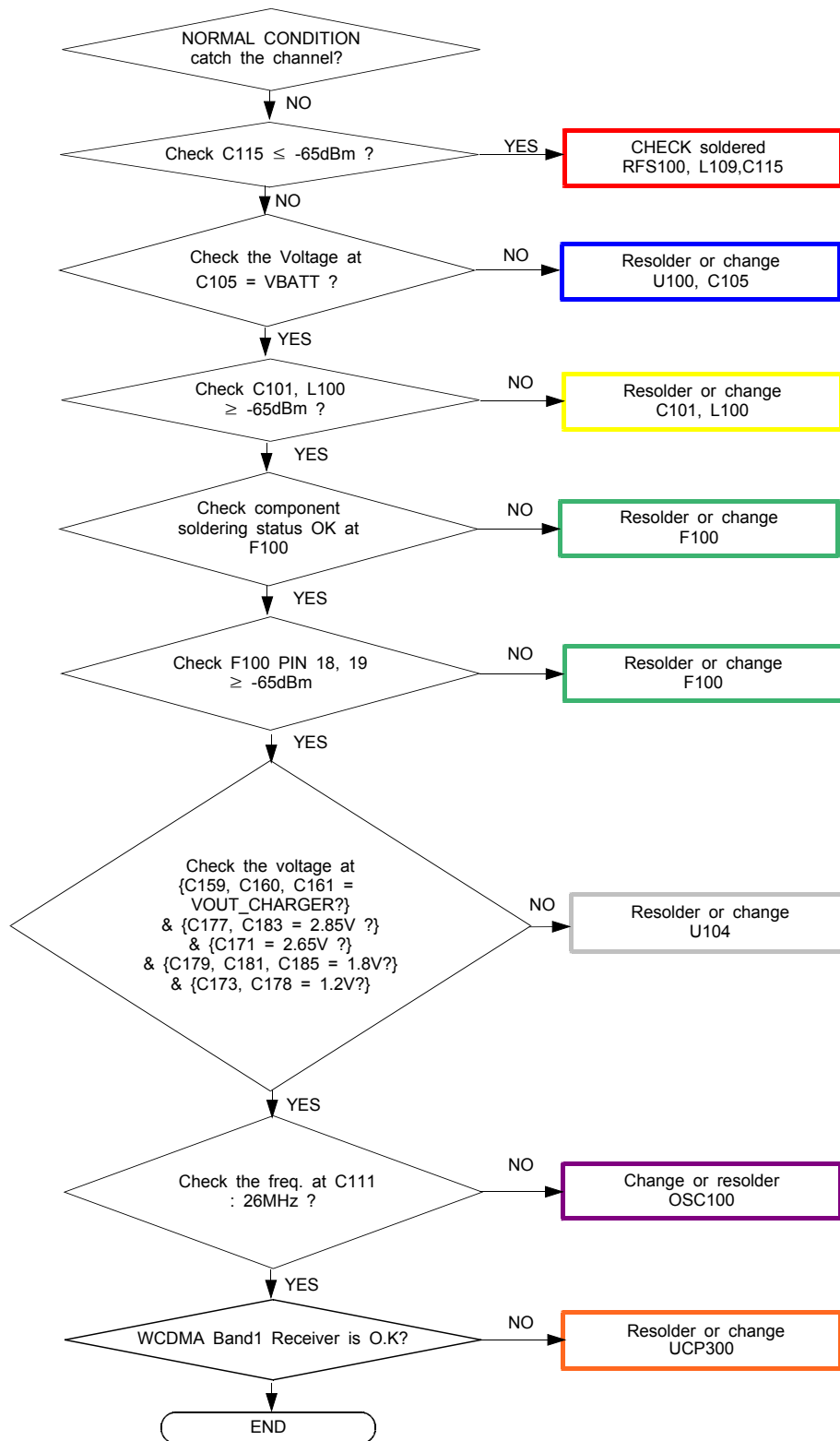
8-3-15. GSM1800 RX





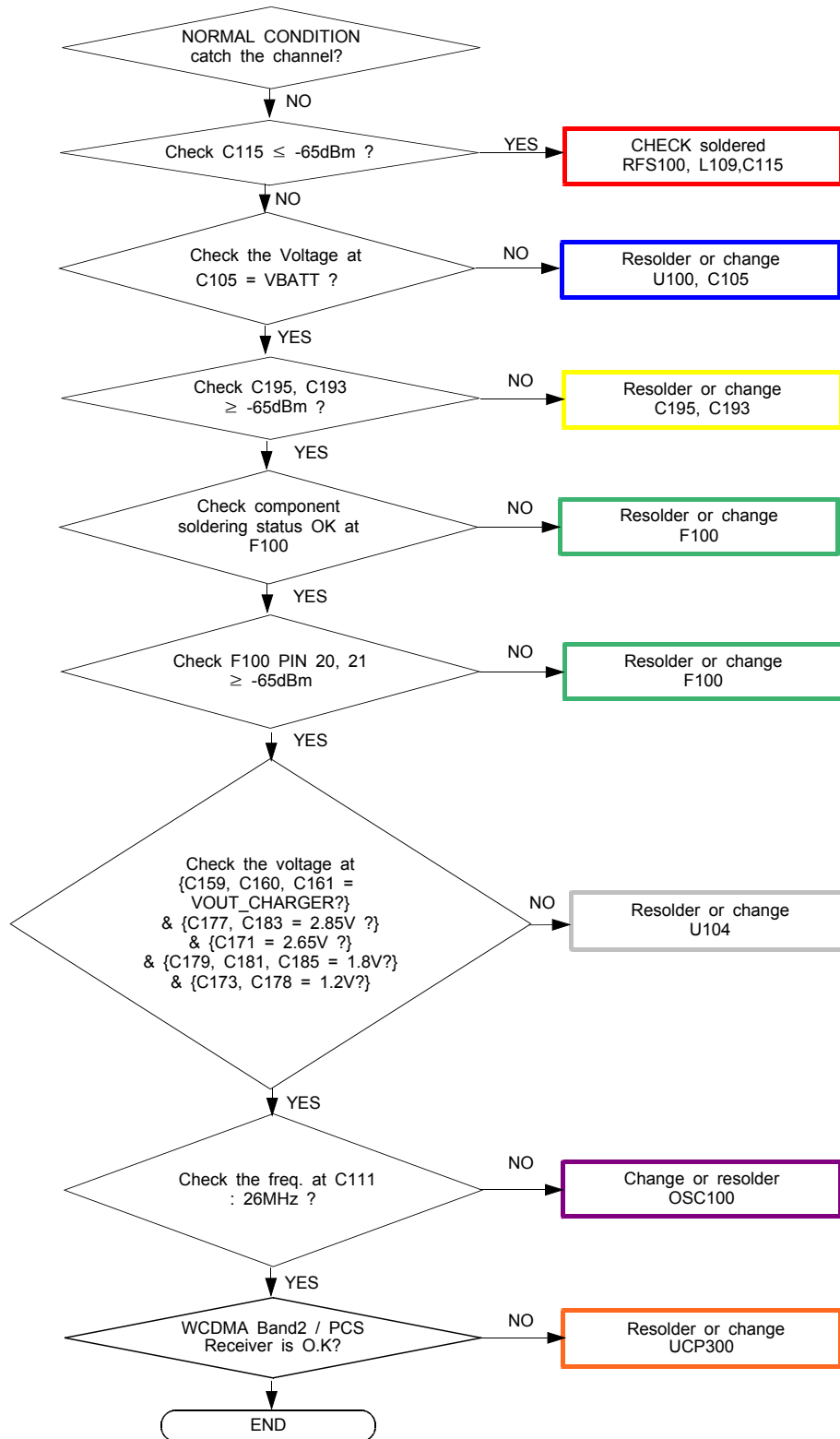
8-3-16. WCDMA Band1 RX

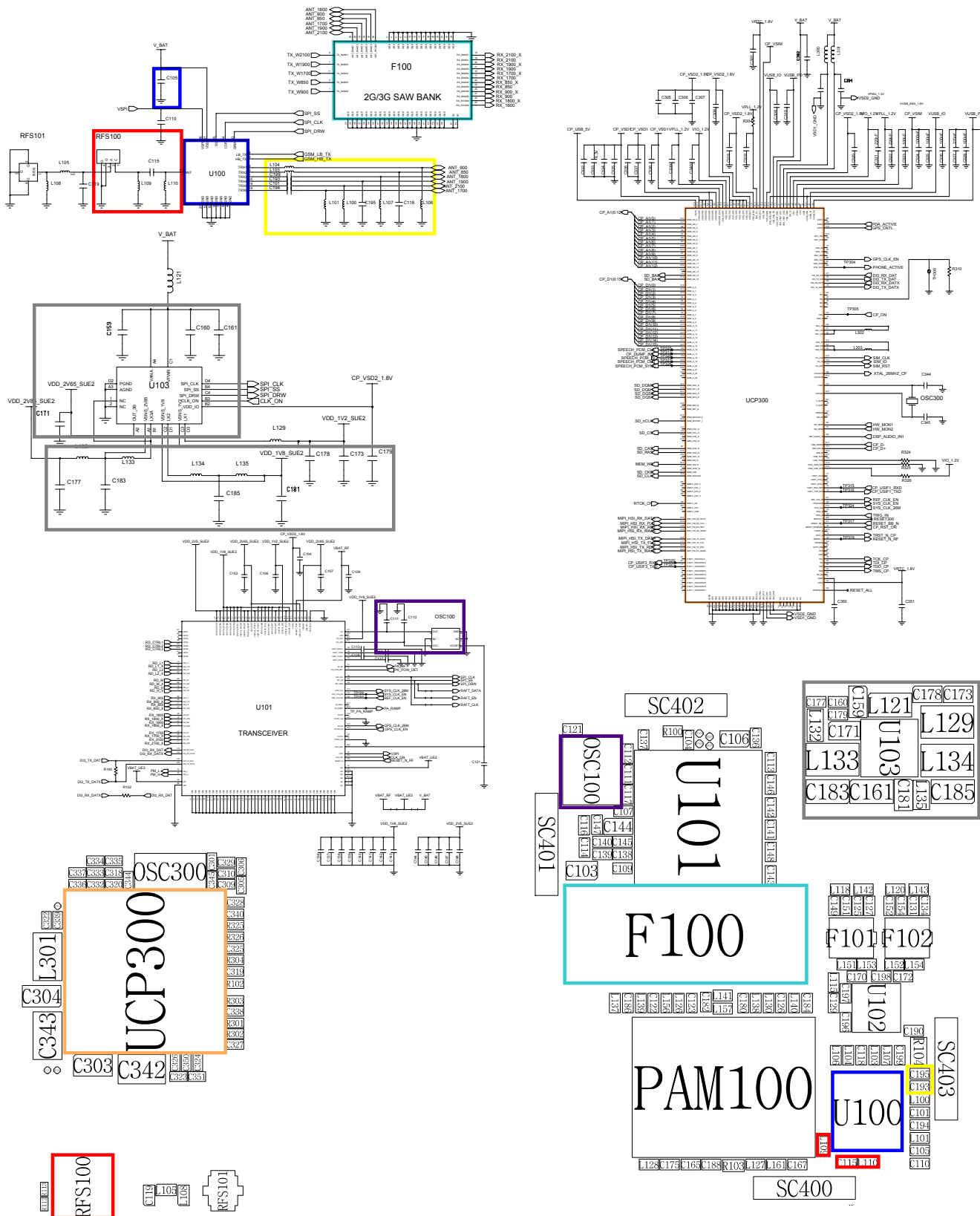
CONTINUOUS RX ON
RF INPUT : 10700CH
AMP : -50dBm



8-3-17. WCDMA Band2 / PCS 1900 RX

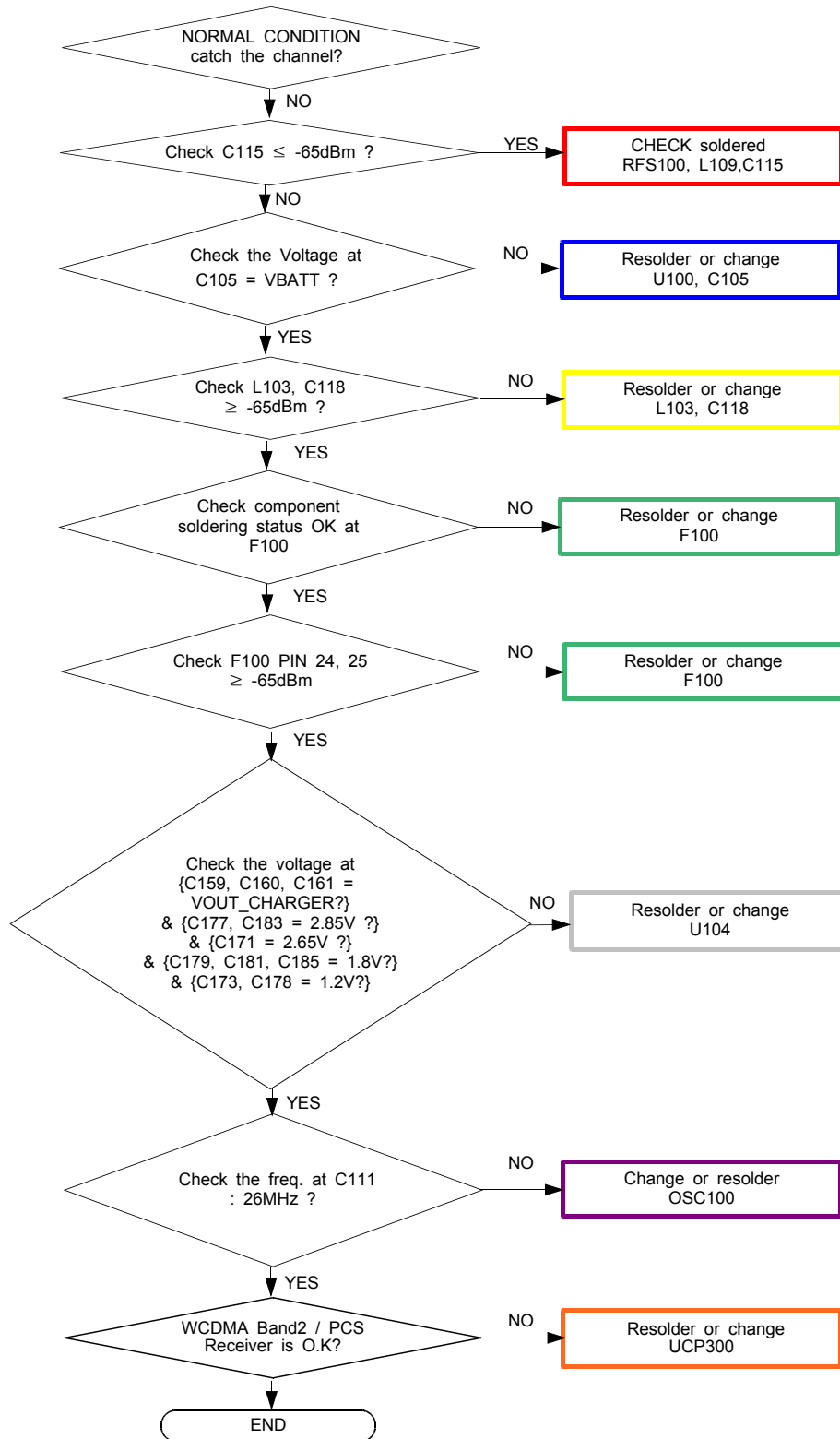
CONTINUOUS RX ON
RF INPUT : 9800CH
AMP : -50dBm

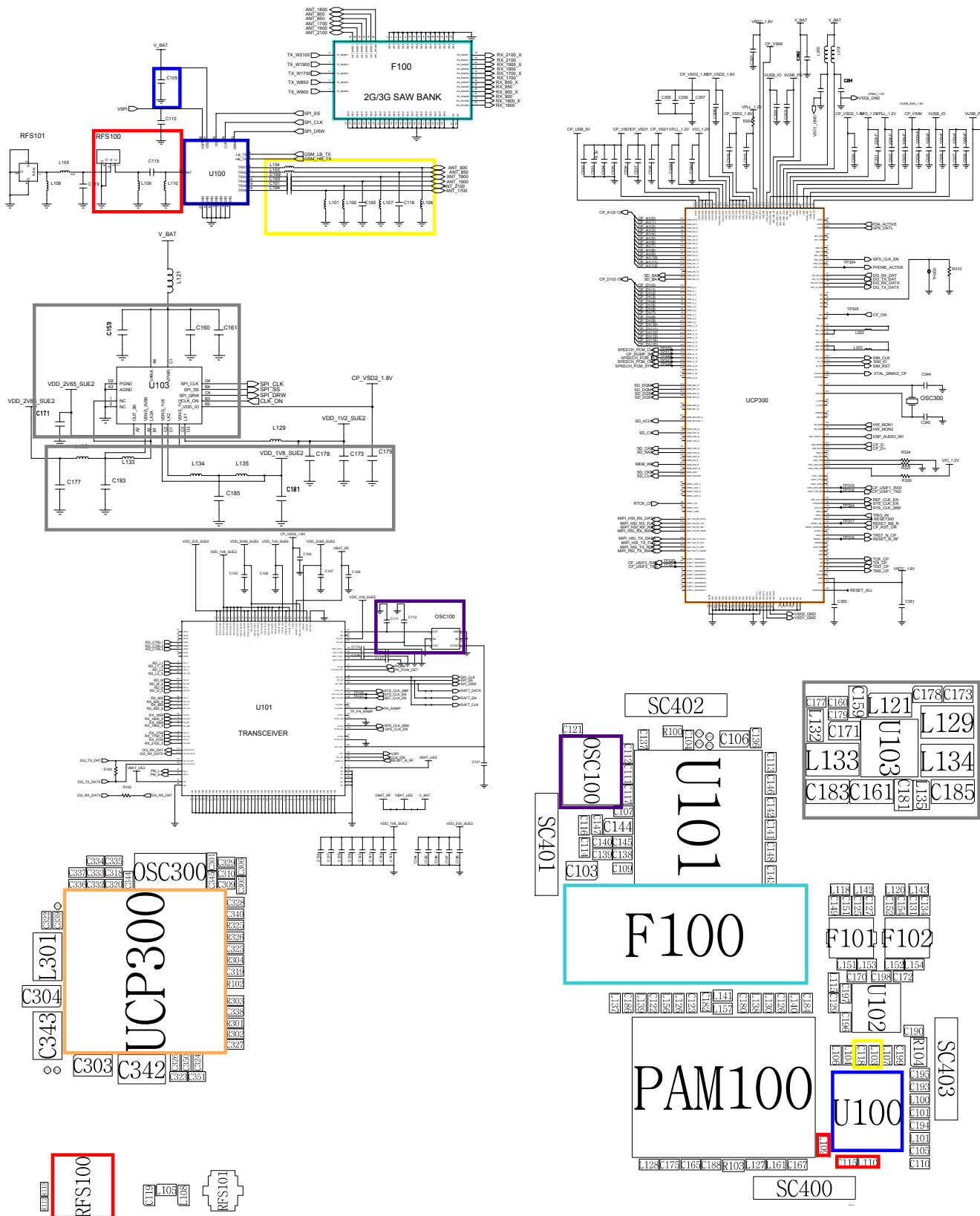




8-3-18. WCDMA Band5 / GSM 850 RX

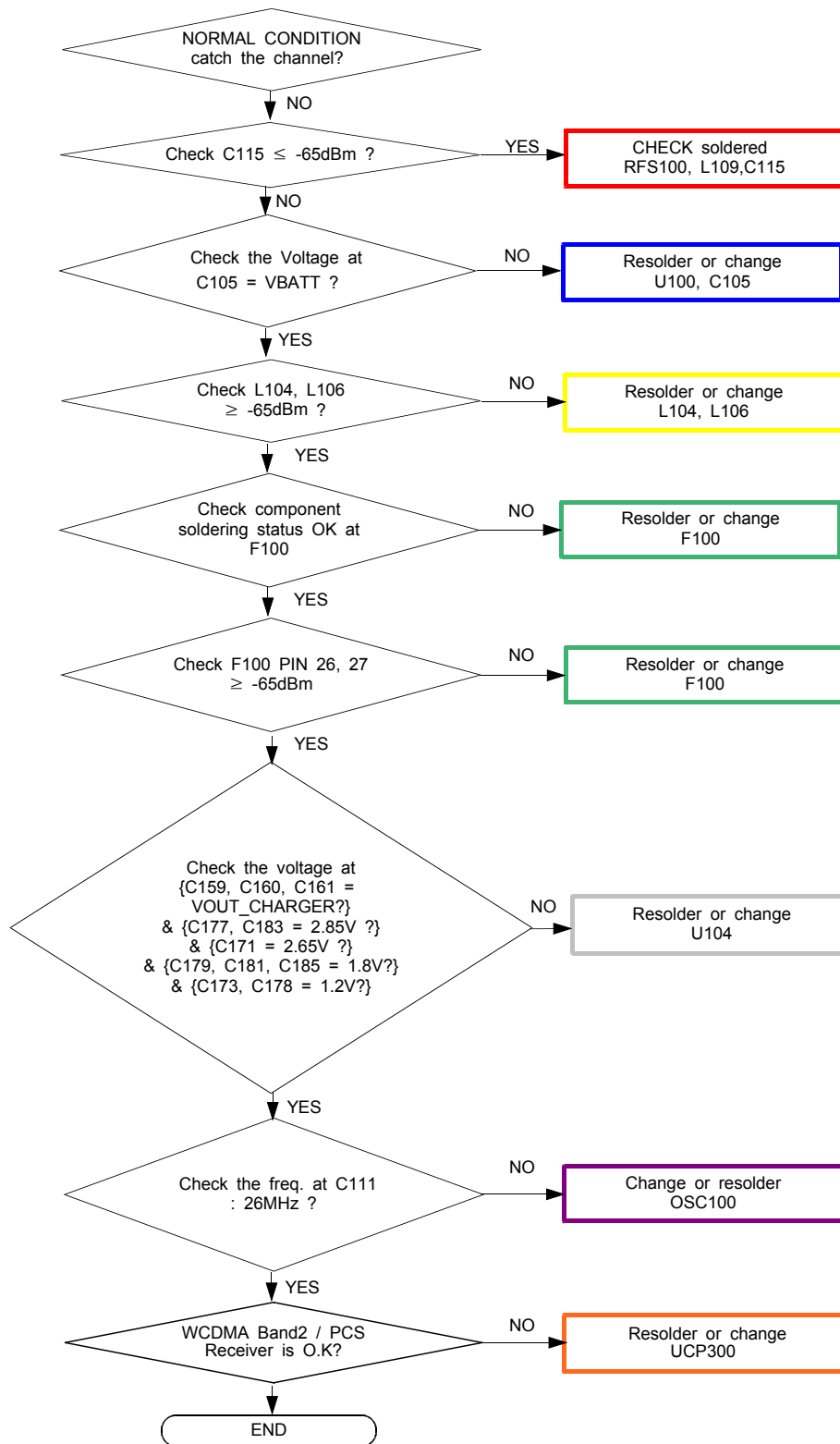
CONTINUOUS RX ON
RF INPUT : 4400CH
AMP : -50dBm



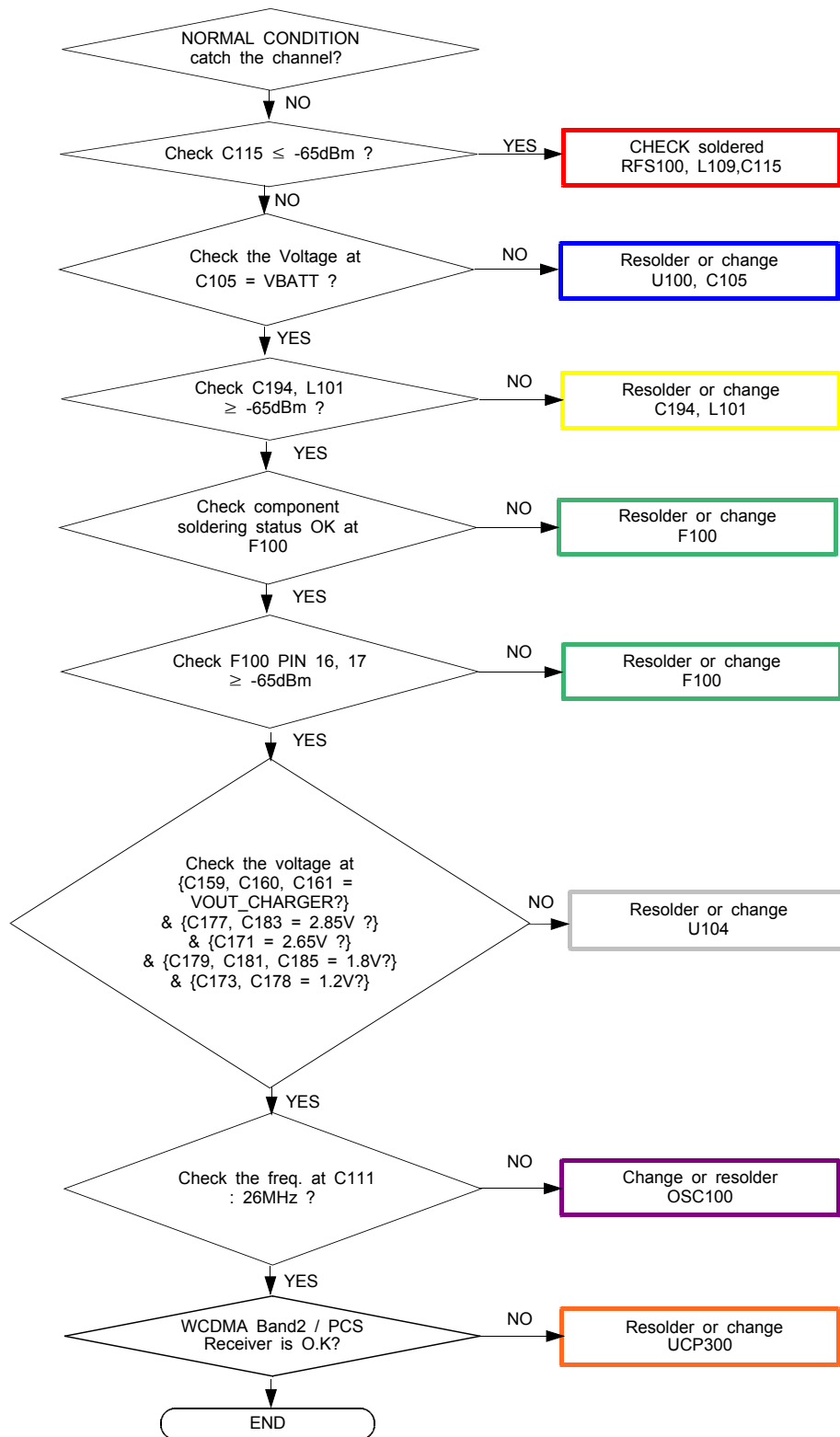


8-3-19. WCDMA Band8 / EGSM 900 RX

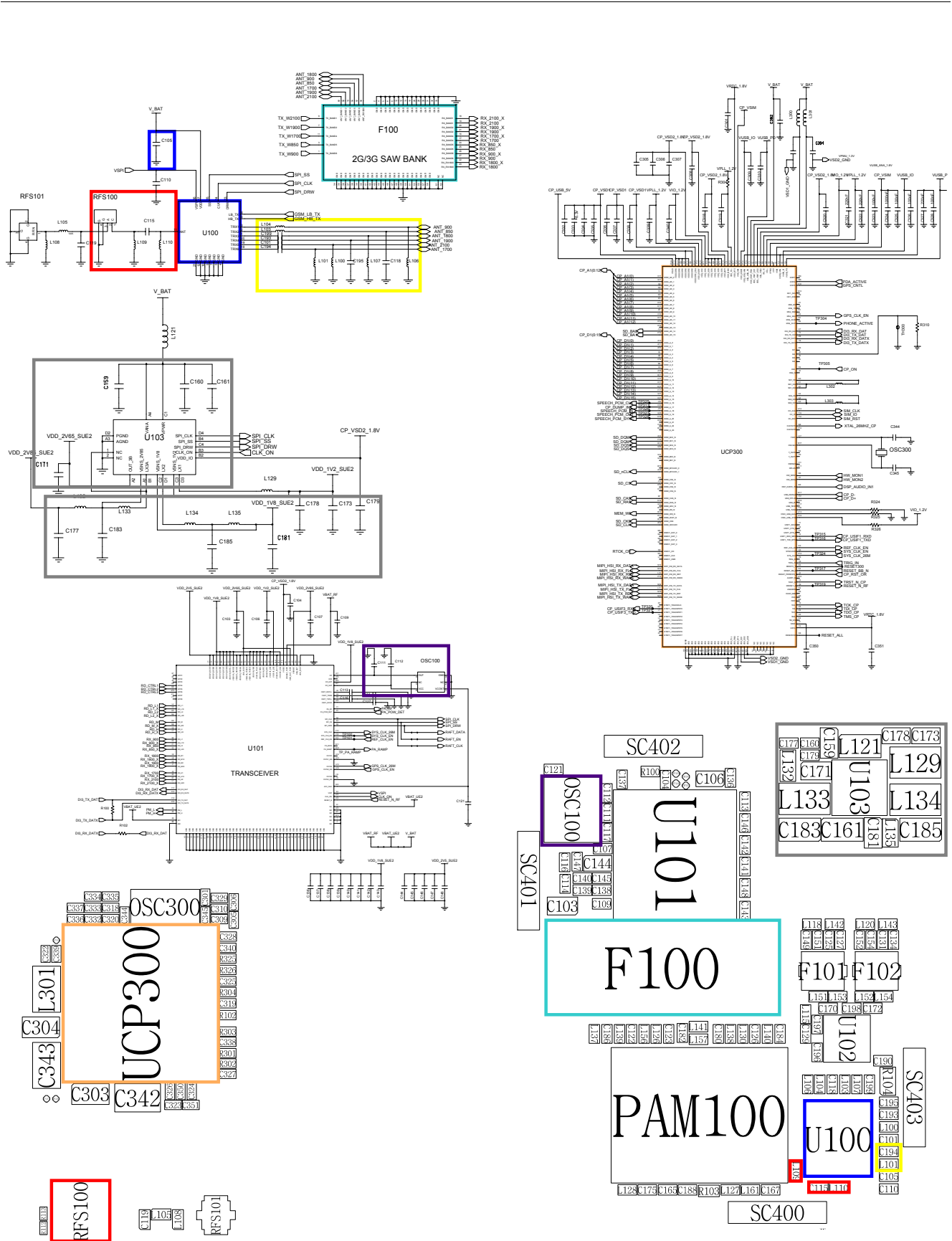
CONTINUOUS RX ON
RF INPUT : 3013CH
AMP : -50dBm



8-3-20. WCDMA Band4

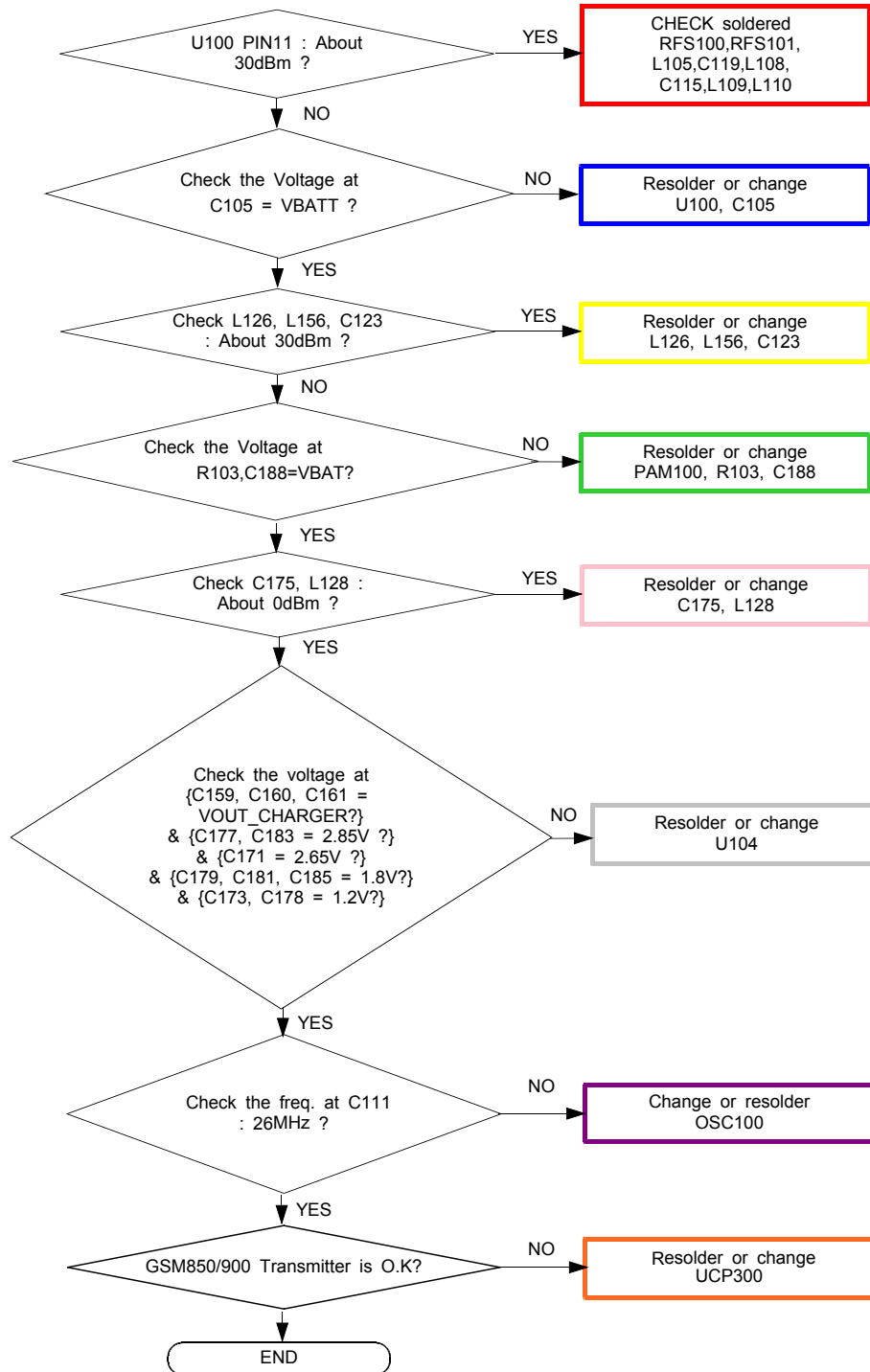


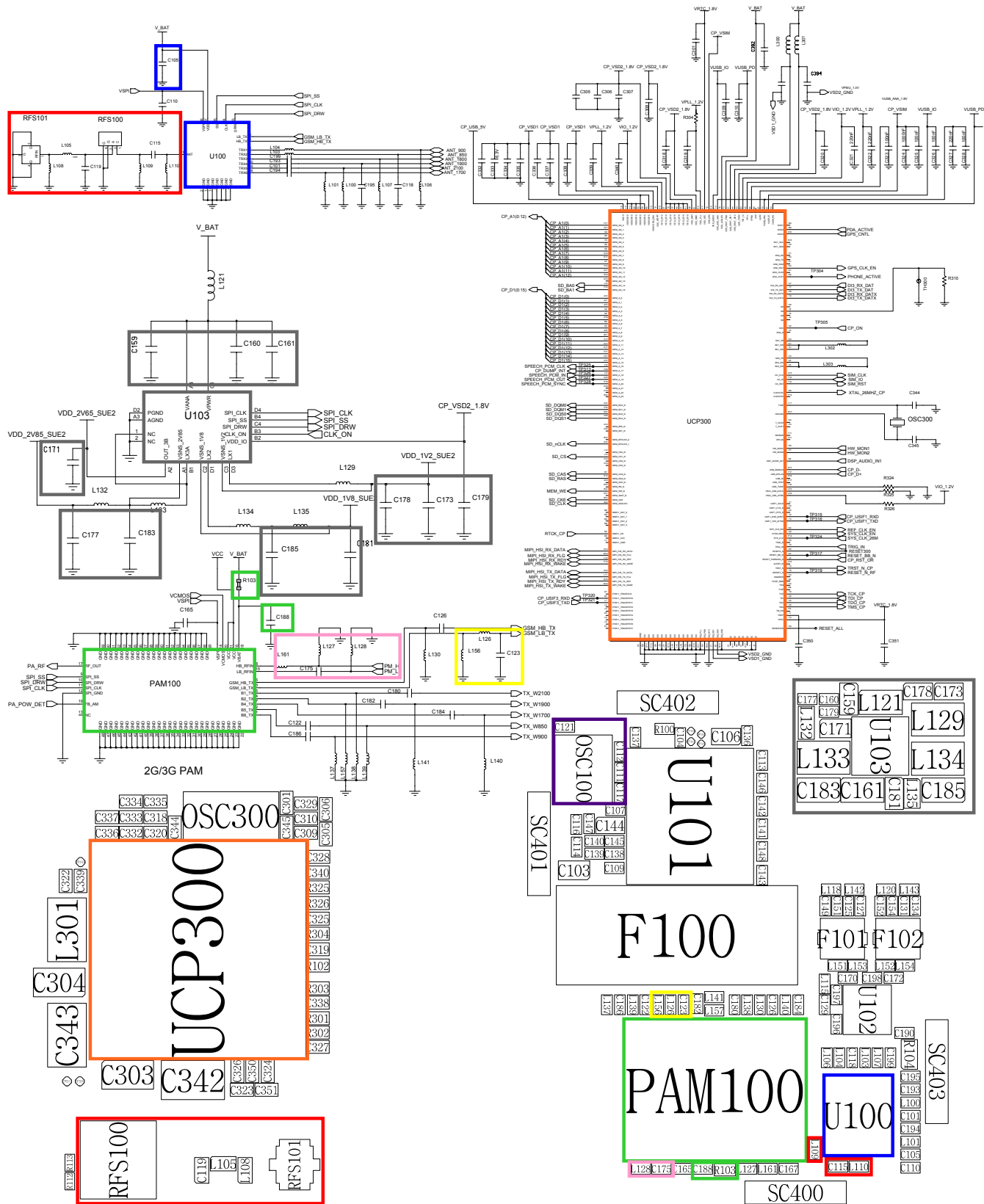
CONTINUOUS RX ON
RF INPUT : 1637CH
AMP : -50dBm



8-3-21. GSM850/GSM900 TX

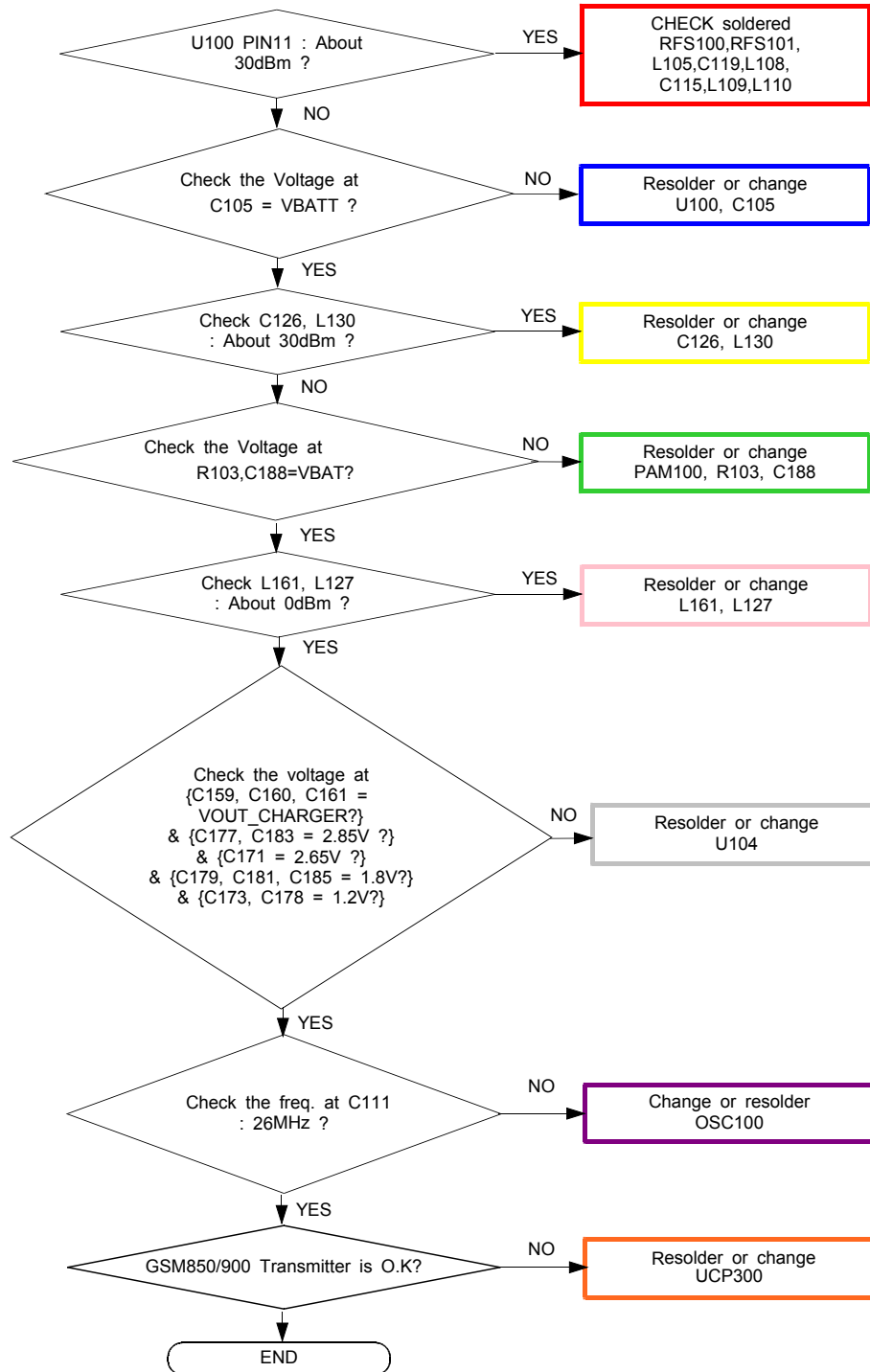
CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
GSM850 CH : 190
GSM900 CH : 62
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB

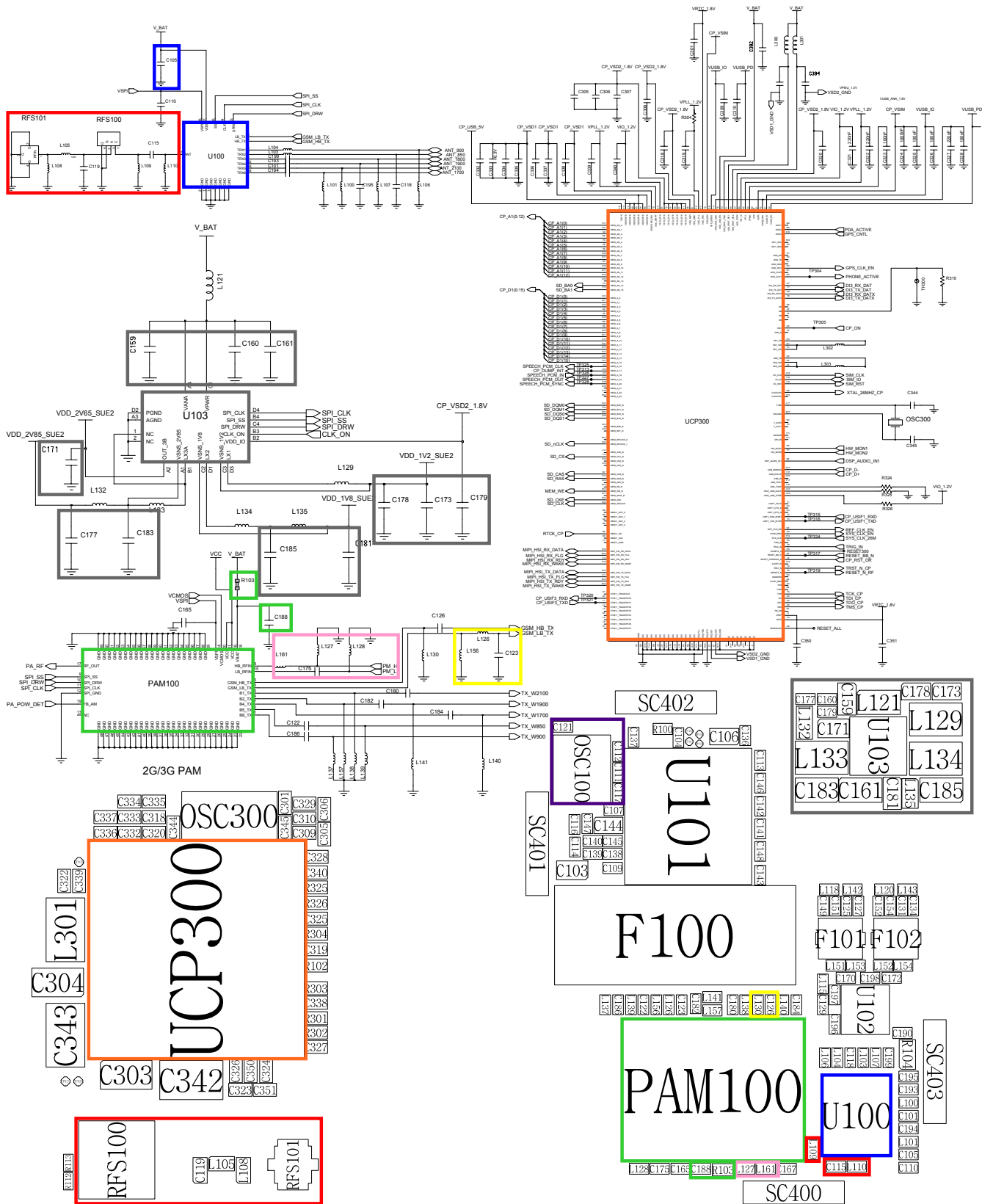




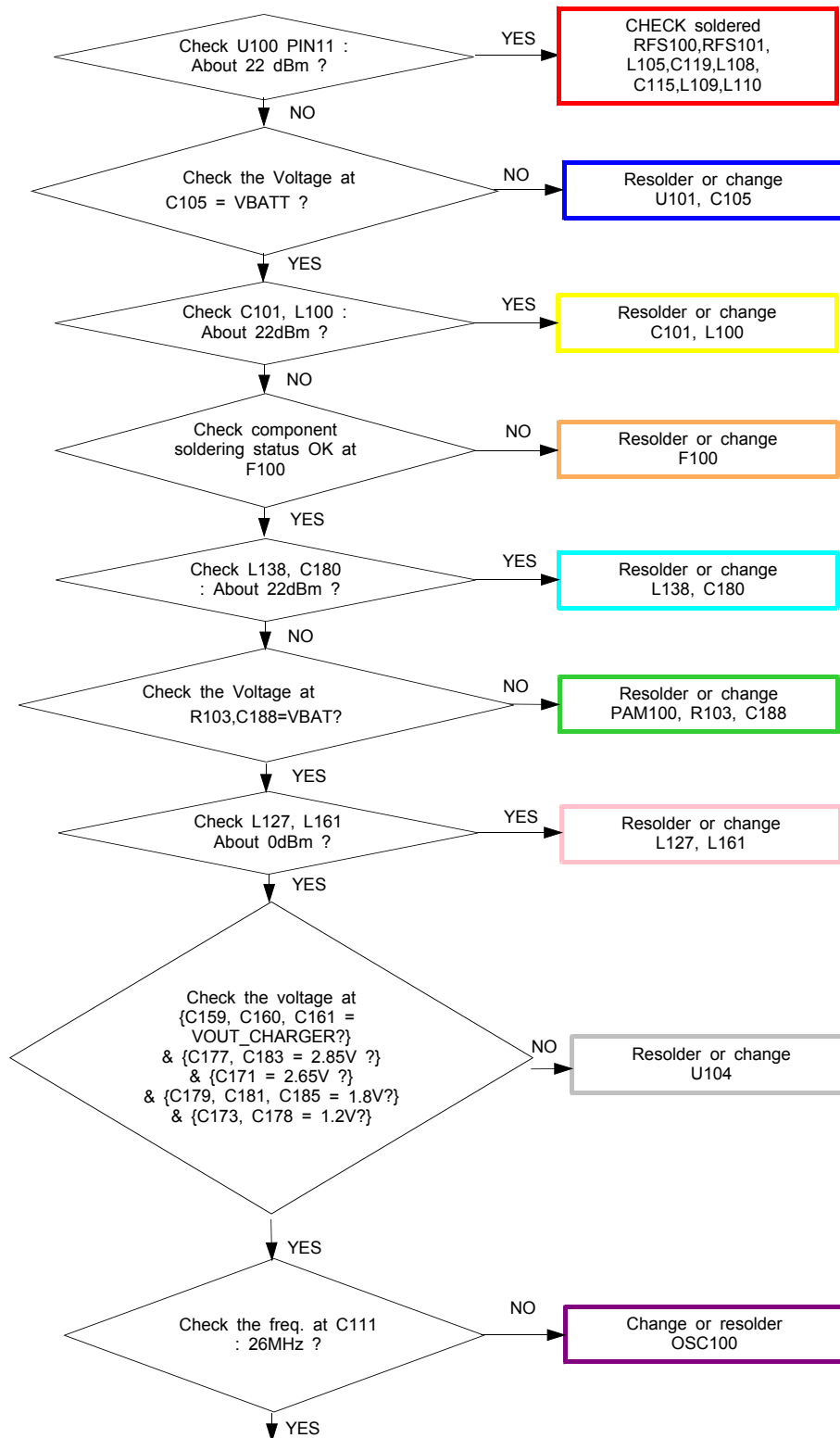
8-3-22. DCS/PCS TX

CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
DCS CH : 661
PCS CH : 650
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB

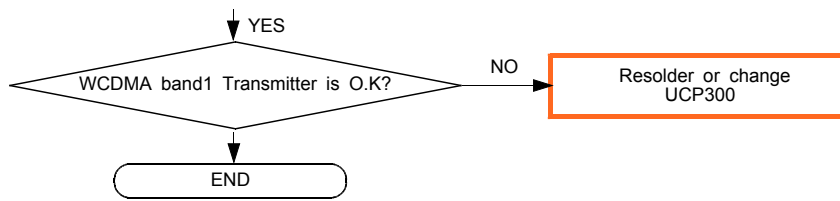


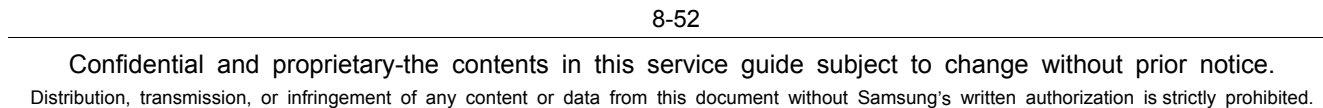


8-3-23. WCDMA BAND1 TX

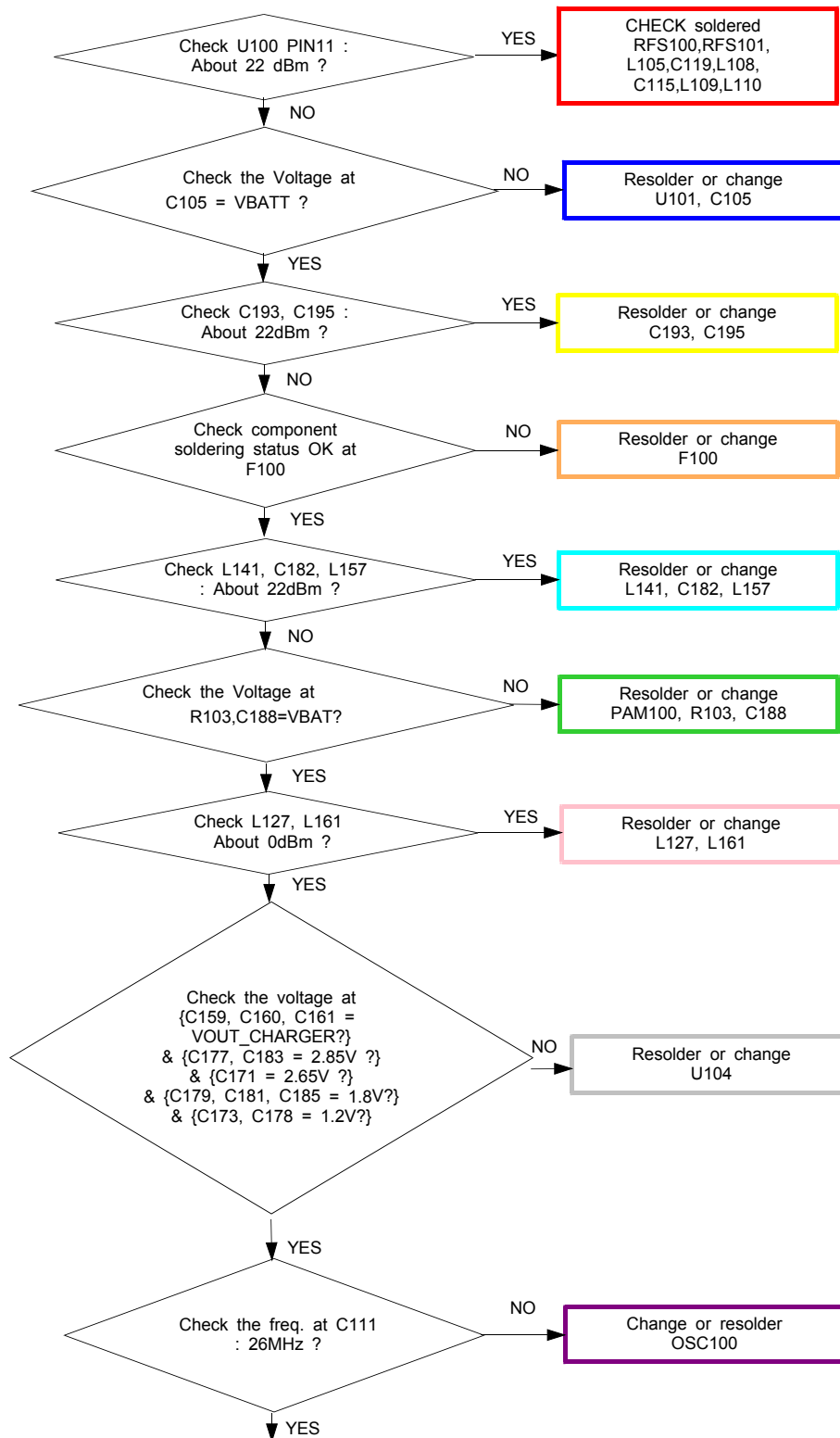


CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
WCDMA Band1 CH : 10700
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB

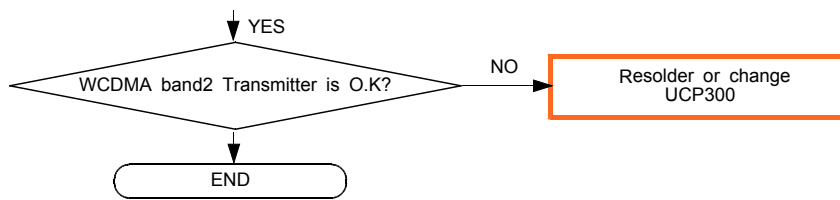




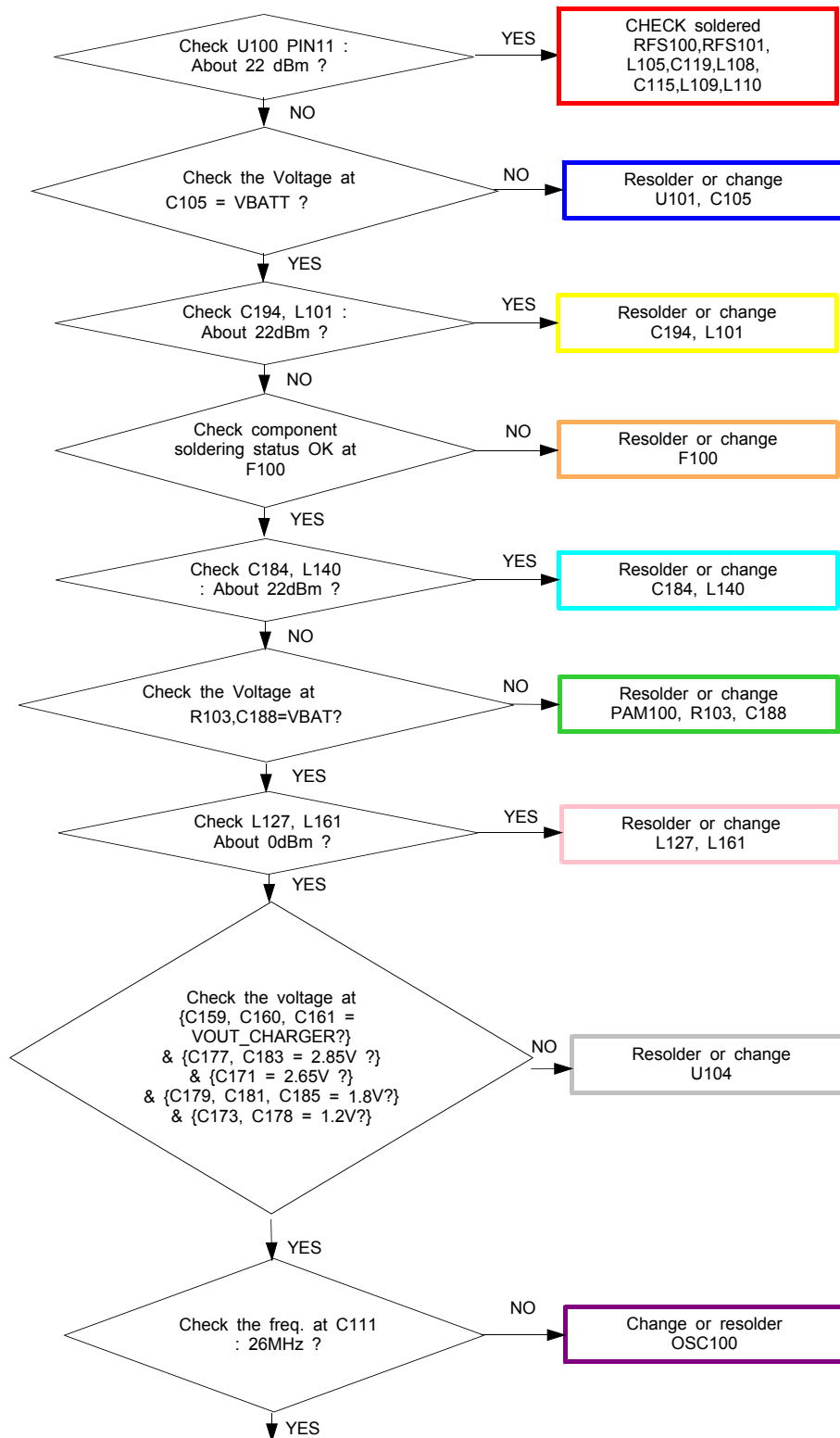
8-3-24. WCDMA BAND2 TX



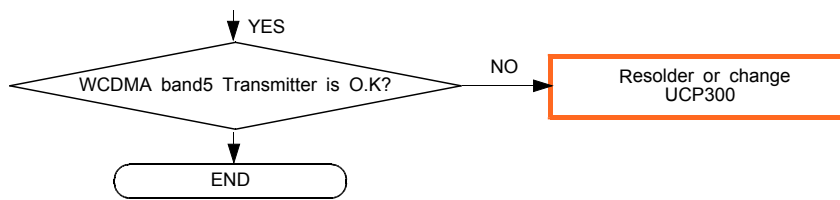
CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
WCDMA Band1 CH : 9800
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV : 10dBm
ATT : 20dB

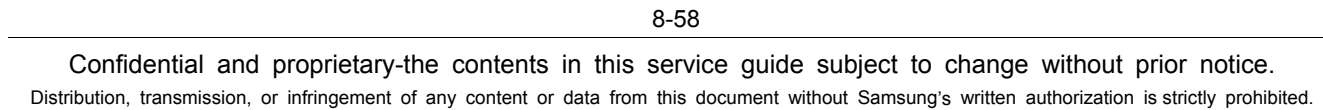


8-3-25. WCDMA BAND4 TX

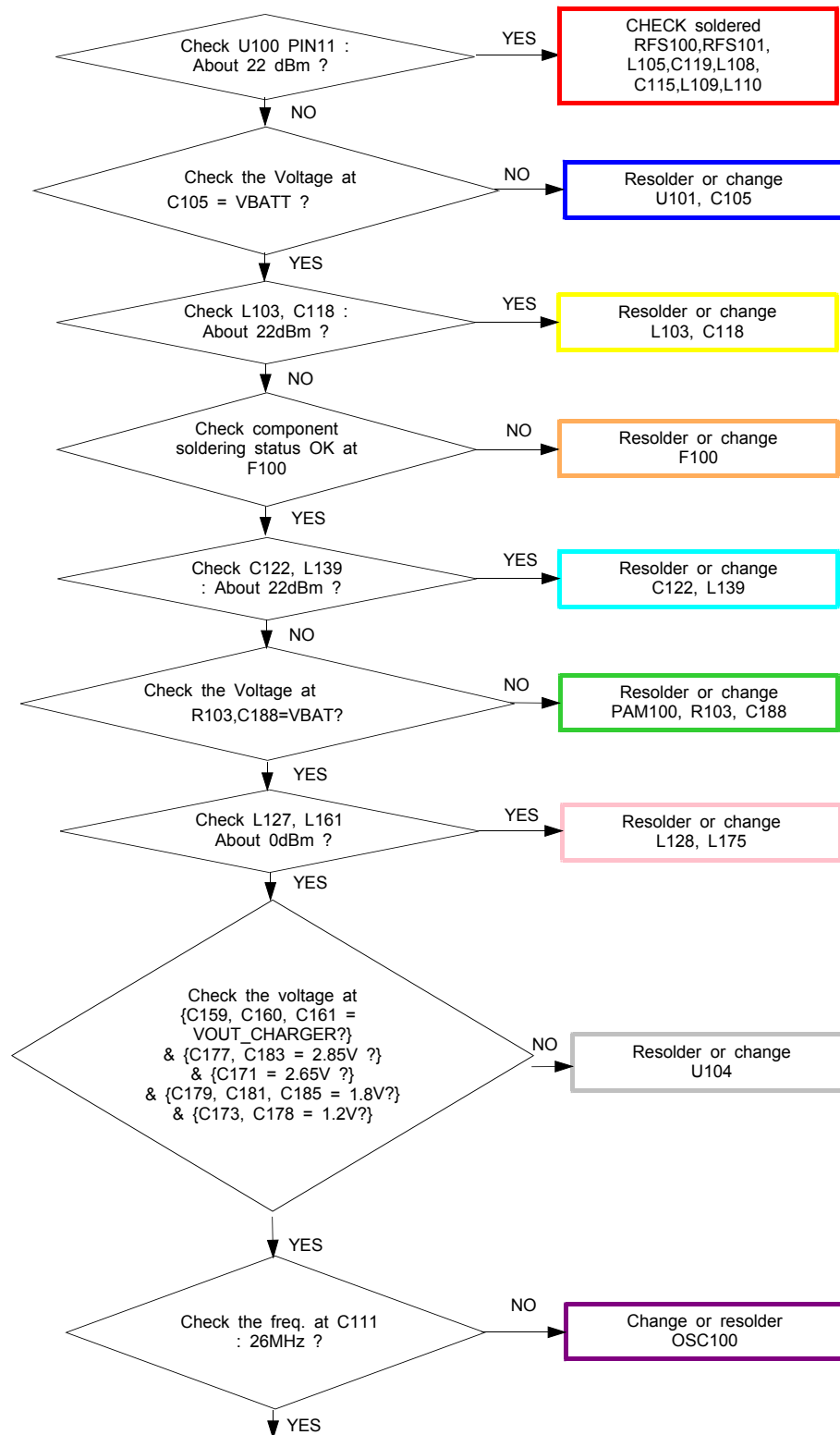


CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
WCDMA Band1 CH : 1637
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB

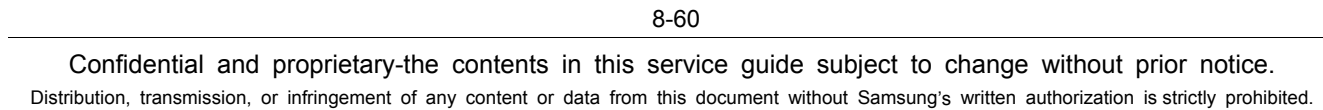




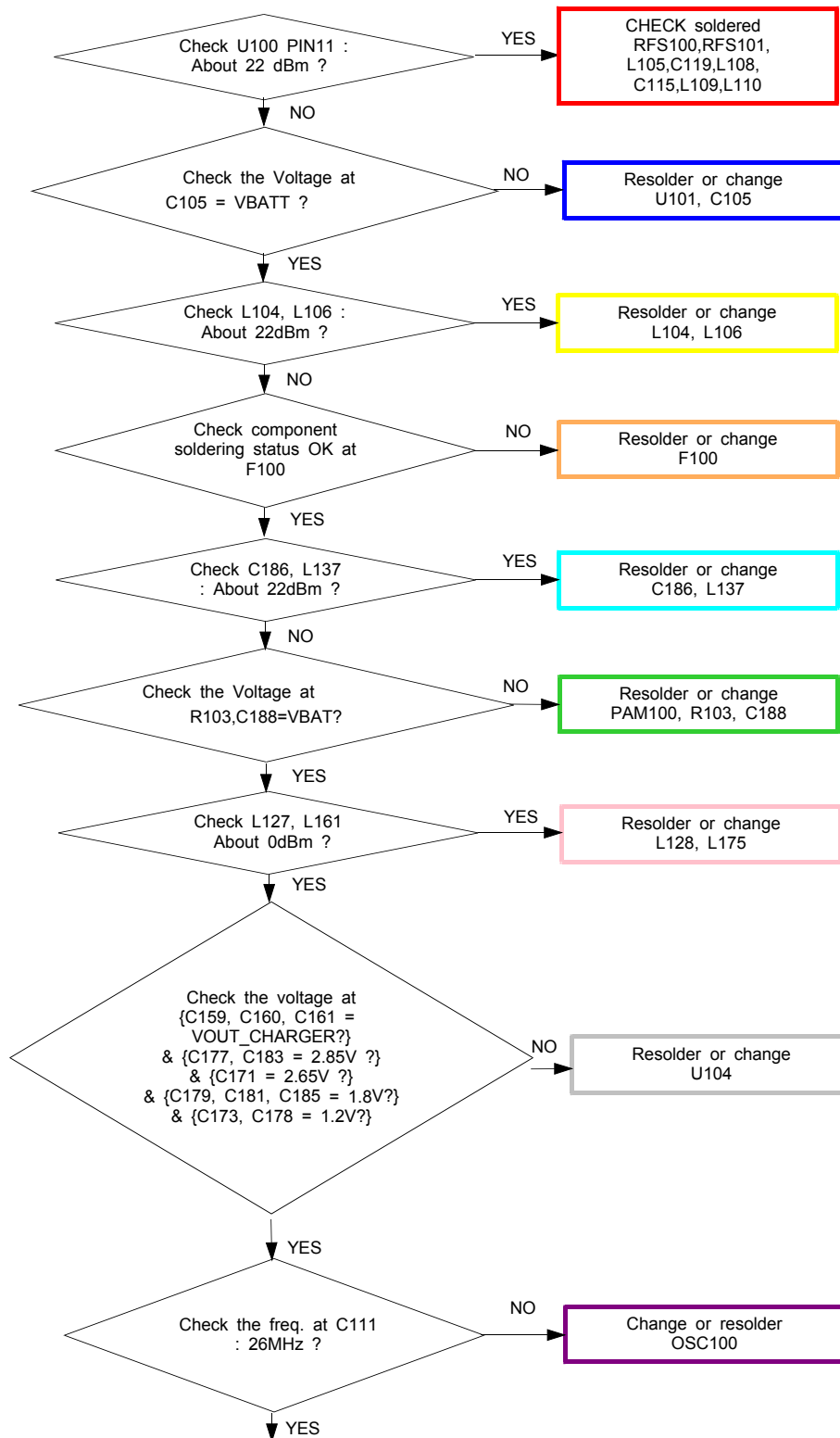
8-3-26. WCDMA BAND5 TX



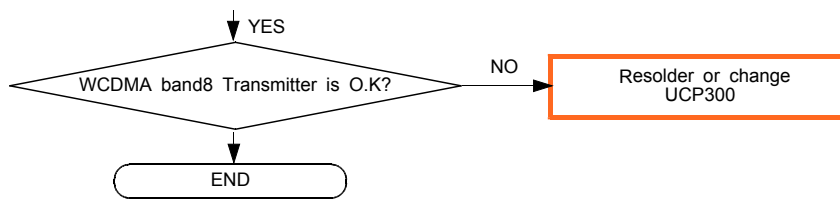
CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
WCDMA Band1 CH : 4400
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV : 10dBm
ATT : 20dB



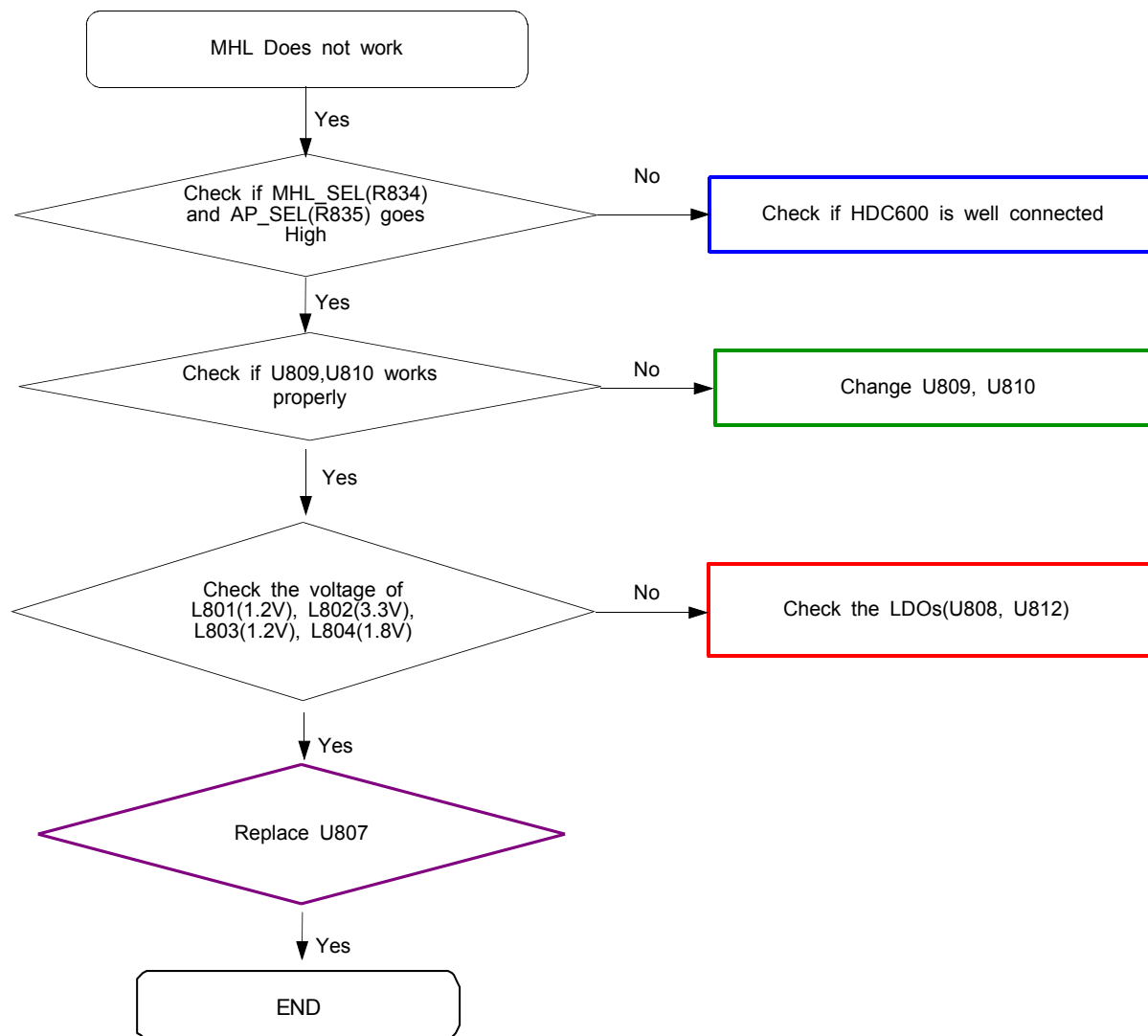
8-3-27. WCDMA BAND8 TX



CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
WCDMA Band1 CH : 3013
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV : 10dBm
ATT : 20dB



8-3-28. MHL



8-3-29. OTG

