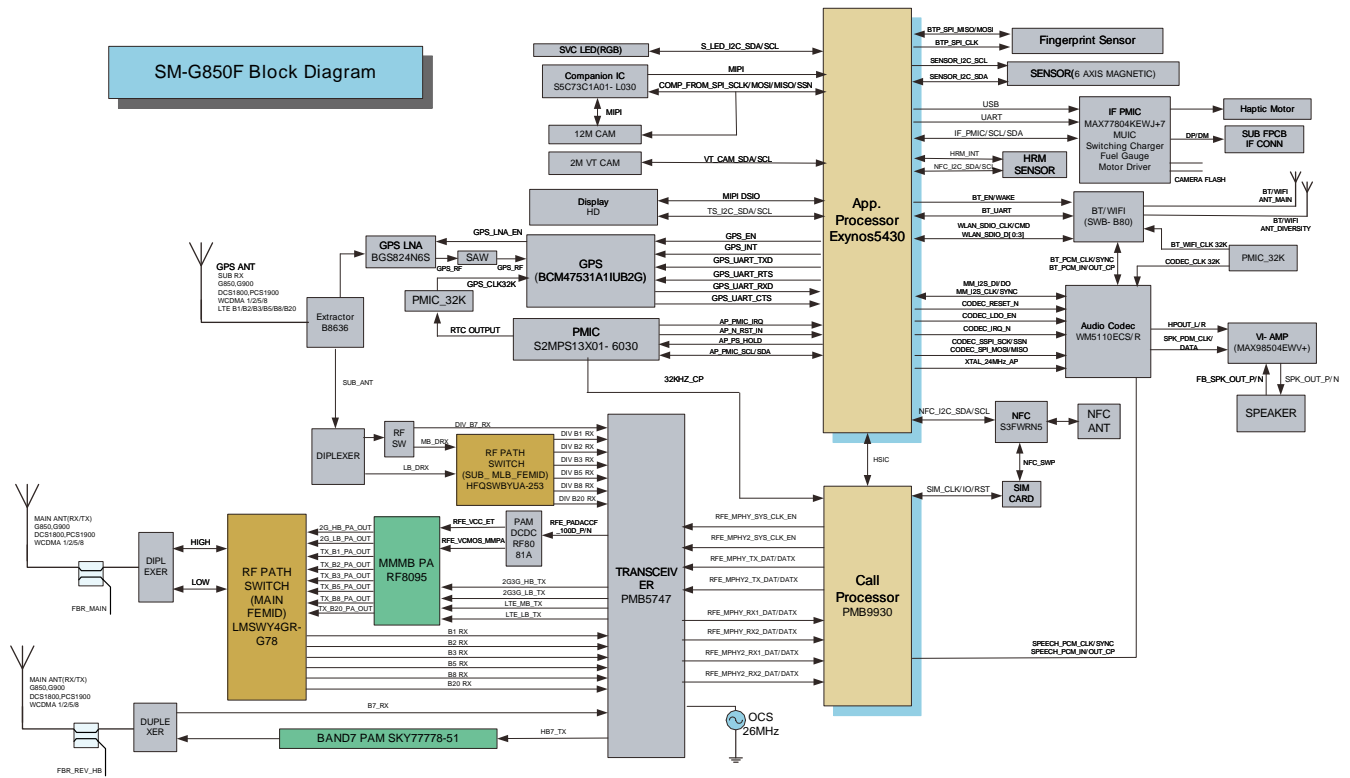


# 8. Level 3 Repair

## 8-1. Block Diagram

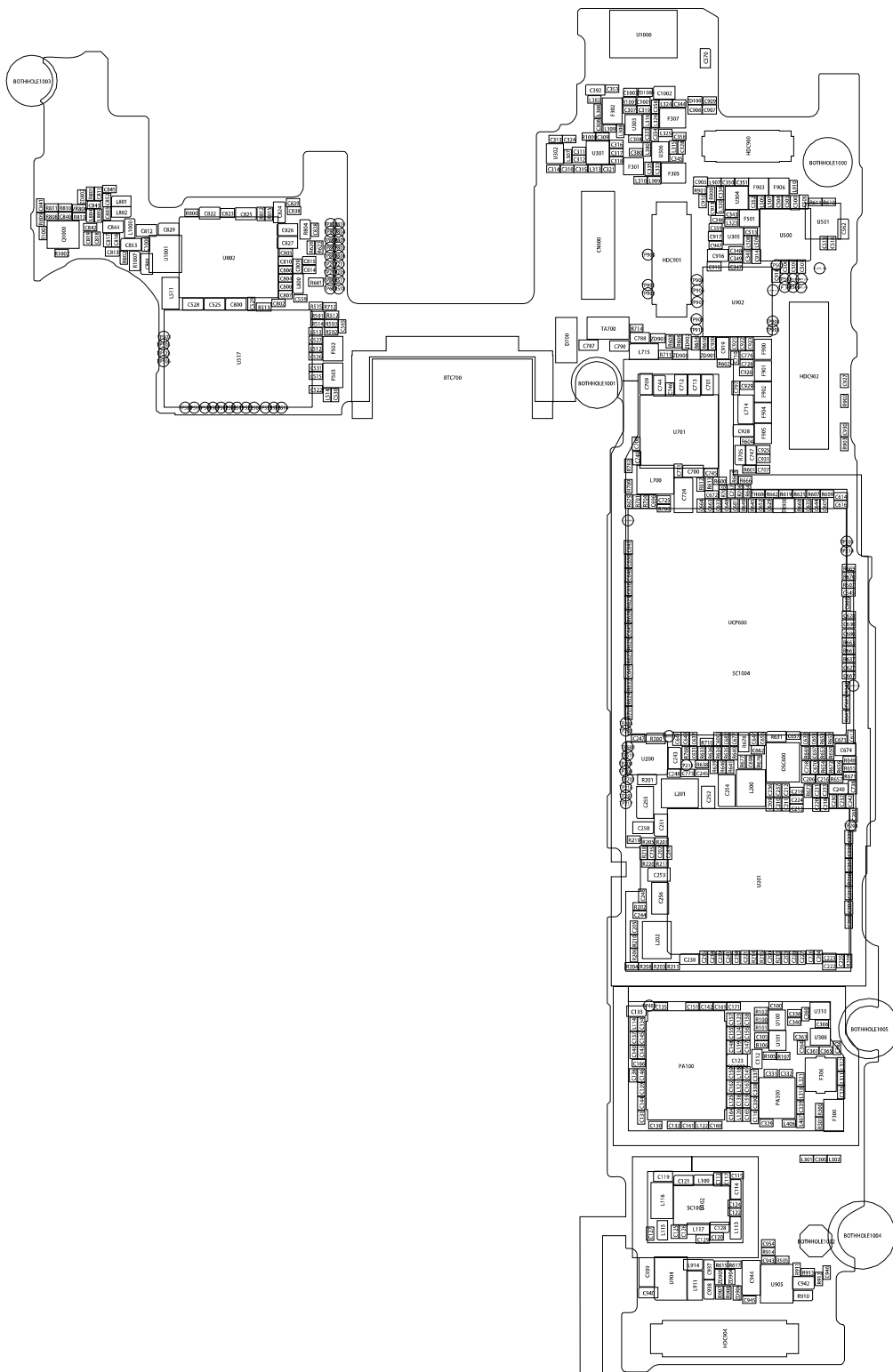


## 8-2. PCB Diagrams

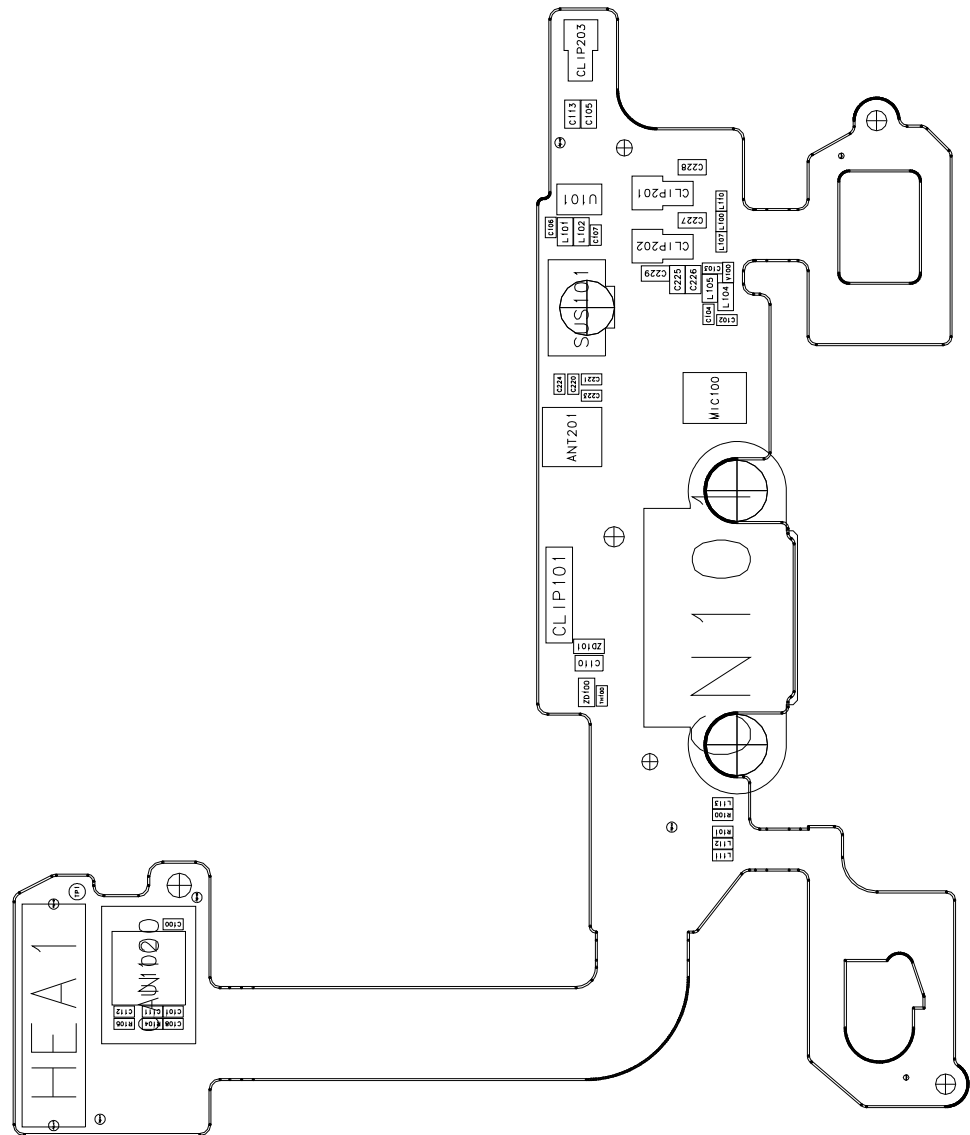
### 8-2-1. Main PCB Top



### 8-2-2. Bottom

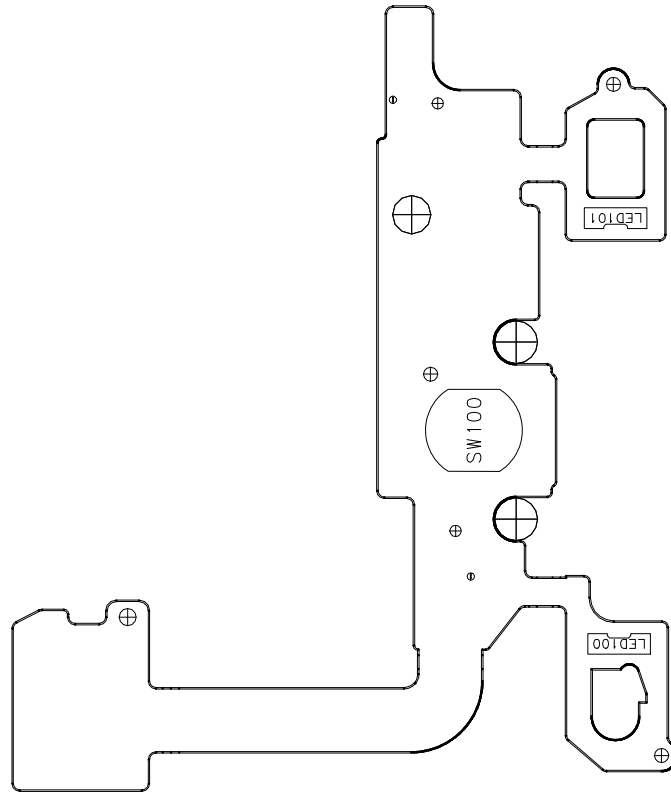


8-2-3. Sub PCB Top



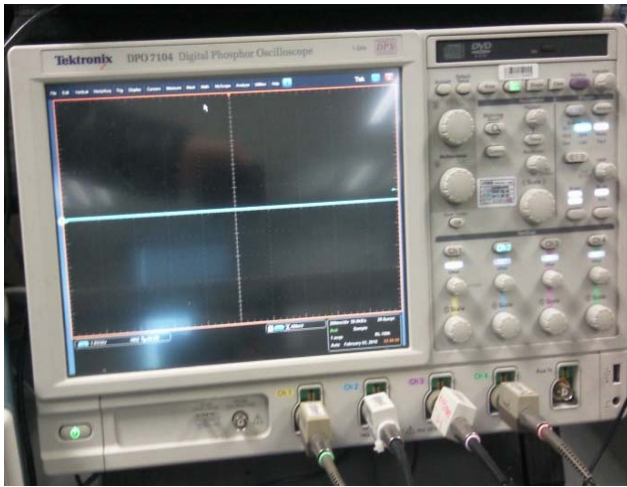


### 8-2-4. Sub PCB Bottom



### 8-3. Flow Chart of Troubleshooting

#### Equipments



↑ Oscilloscope



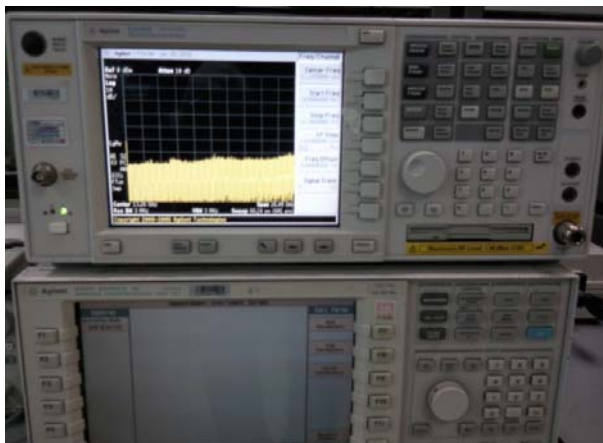
á Digital Multimeter



á Power Supply



á + driver, ESD Safe Tweezer

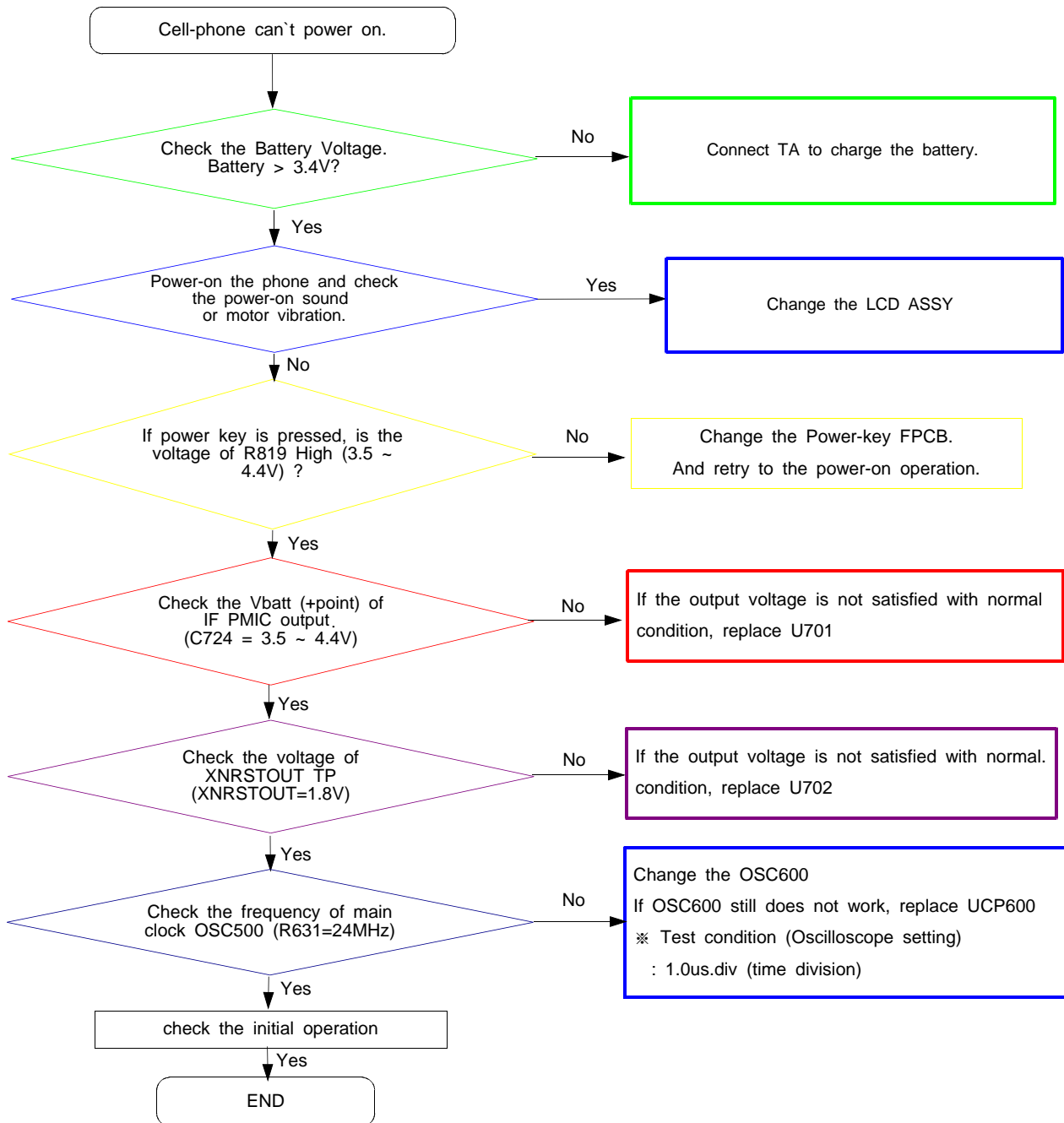


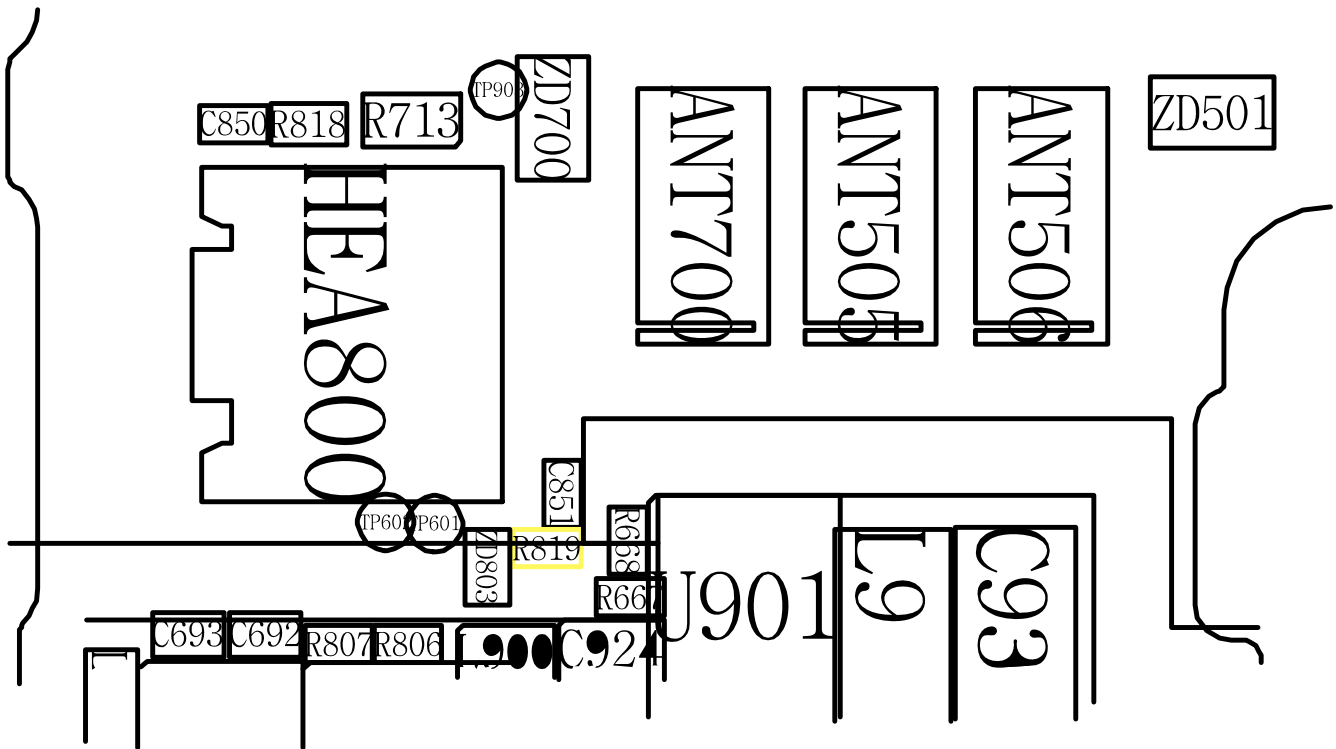
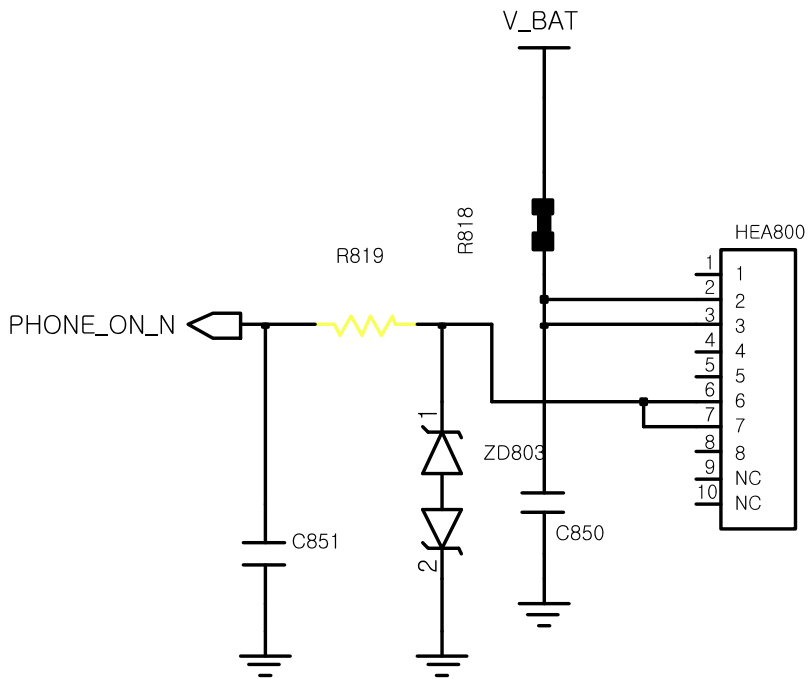
↑ 8960 & Spectrum Analyzer



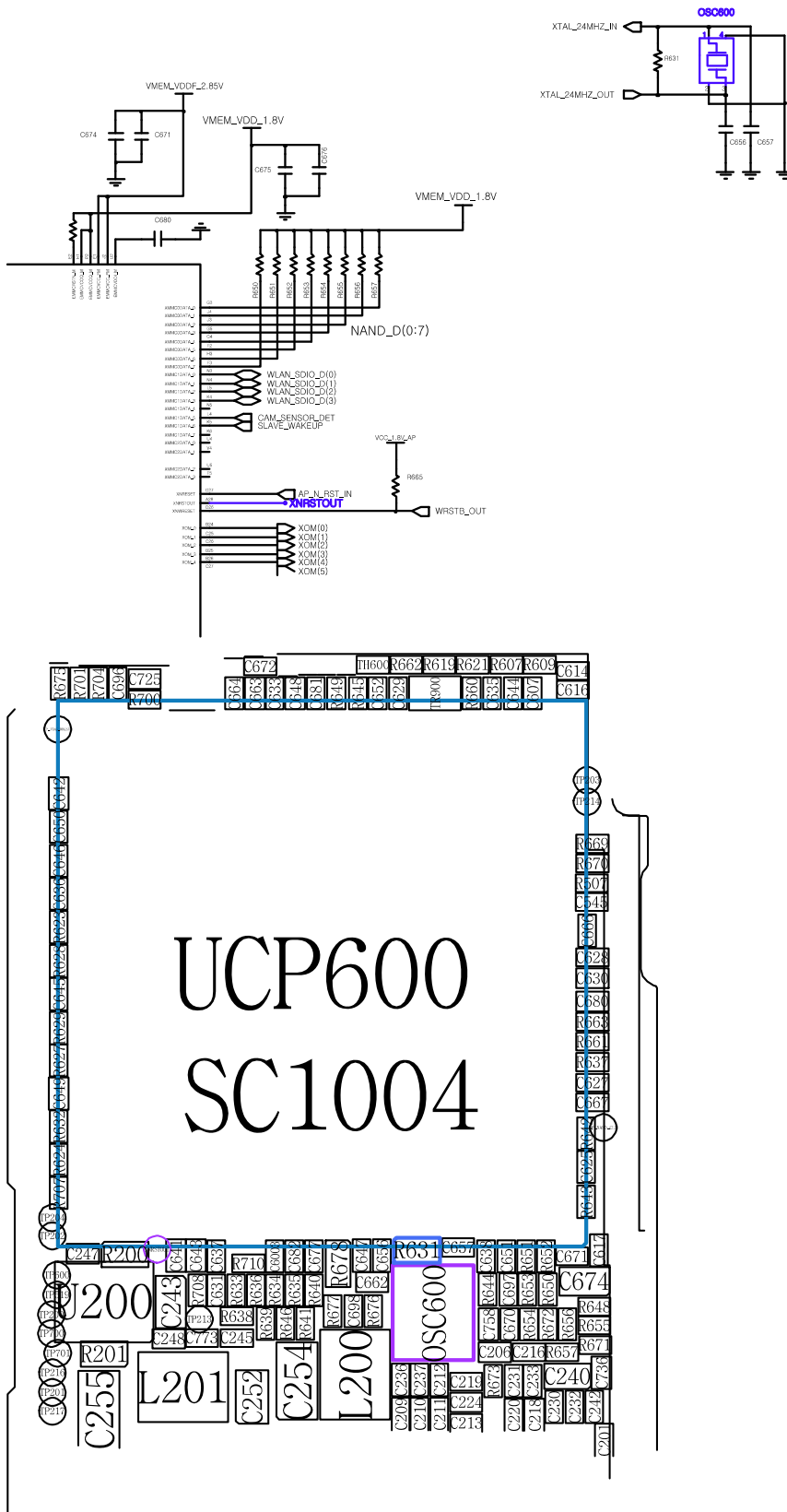
á Soldering iron

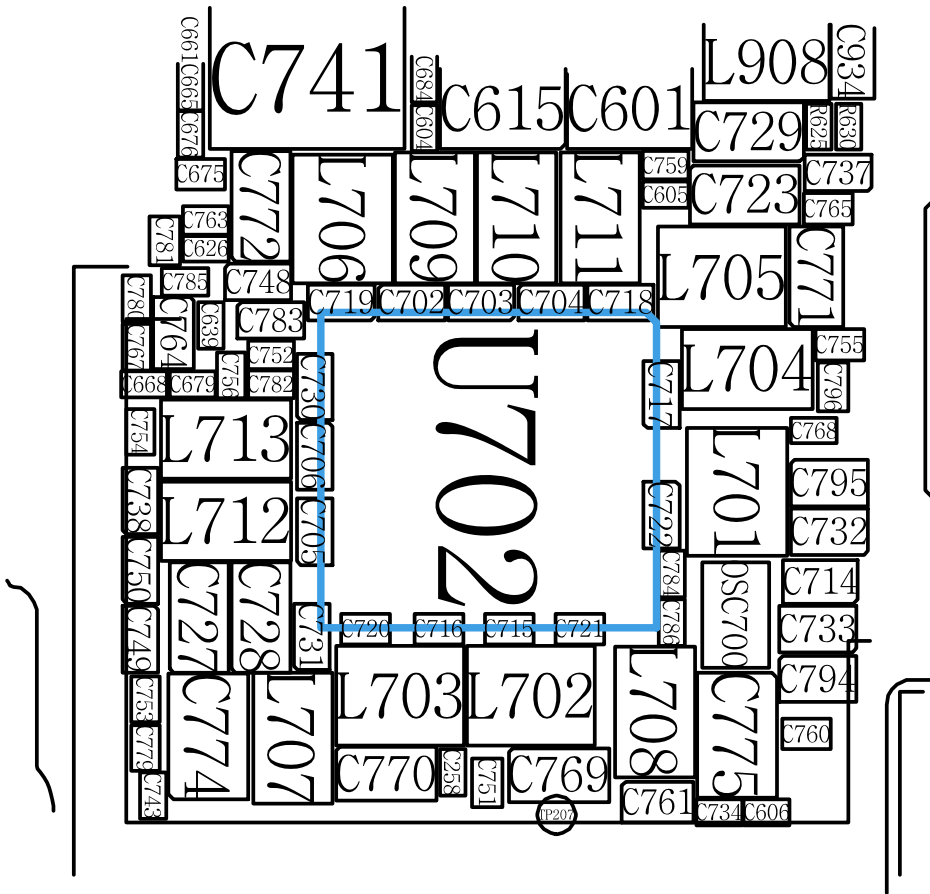
8-3-1. Power On



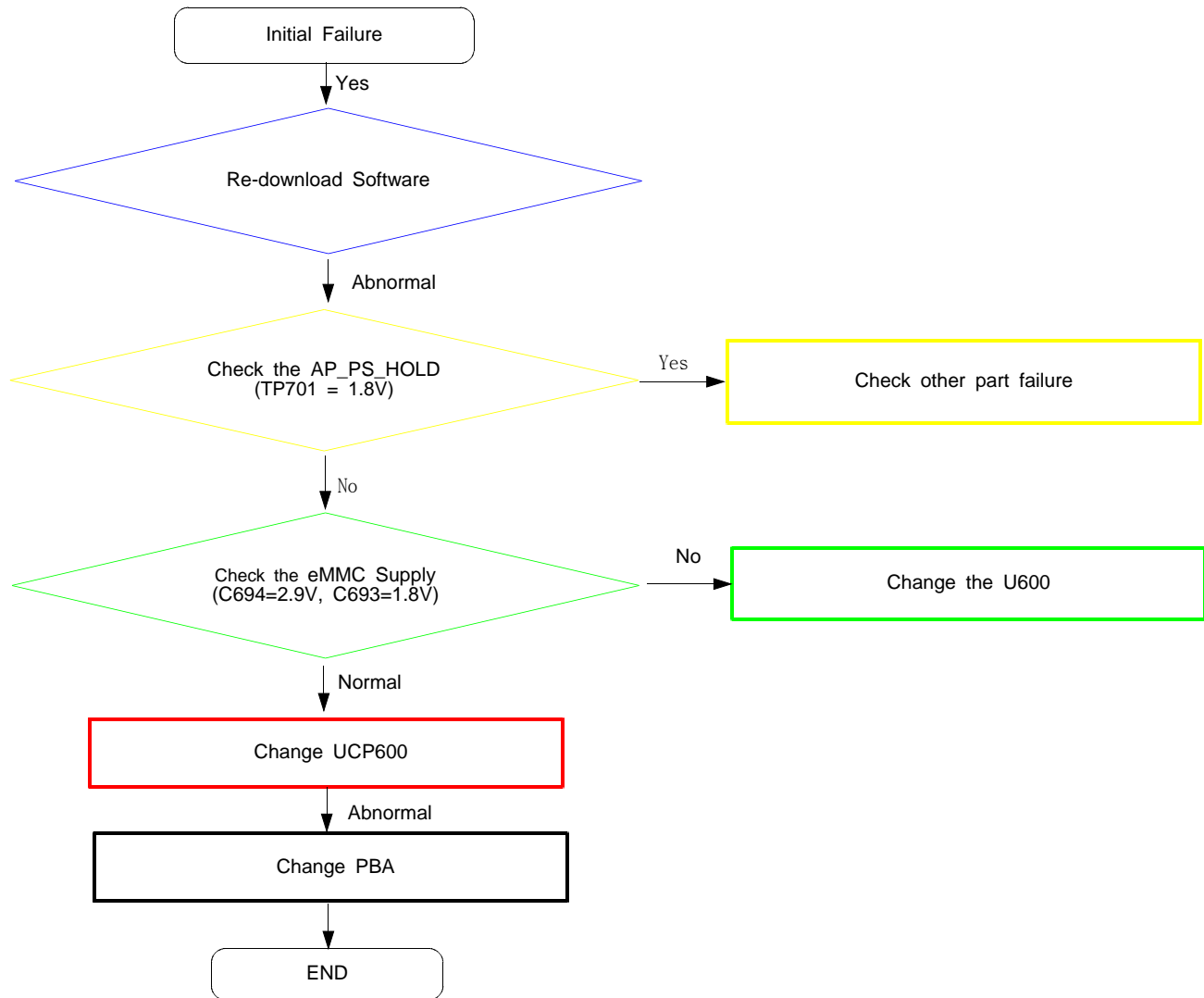




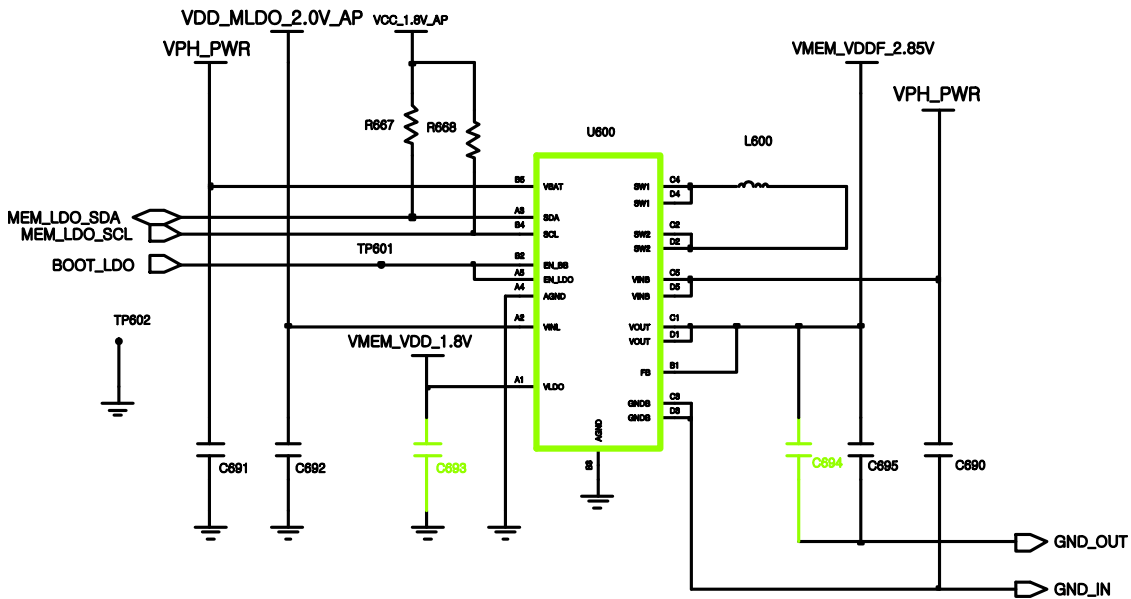
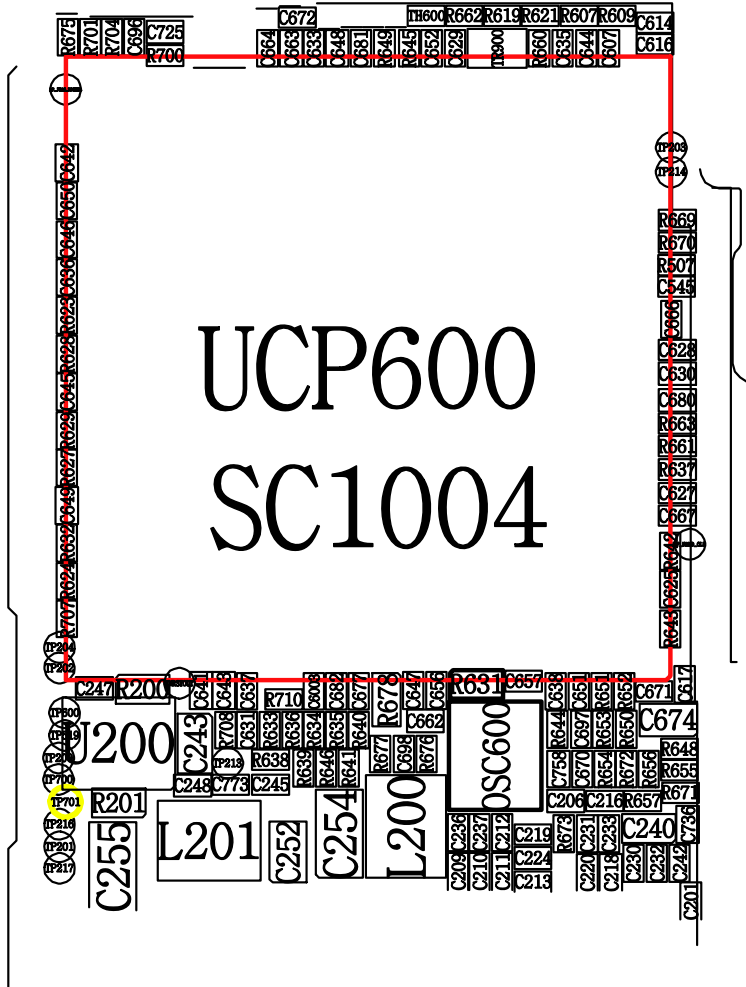


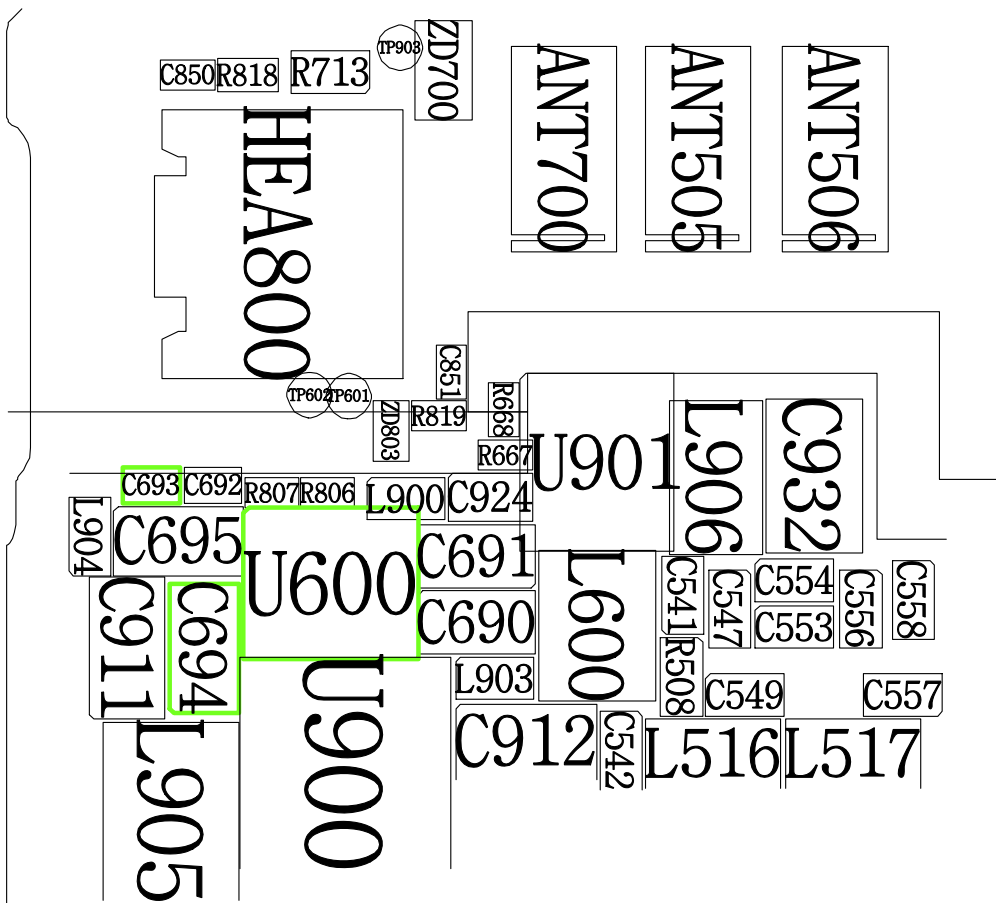


## 8-3-2. Initial

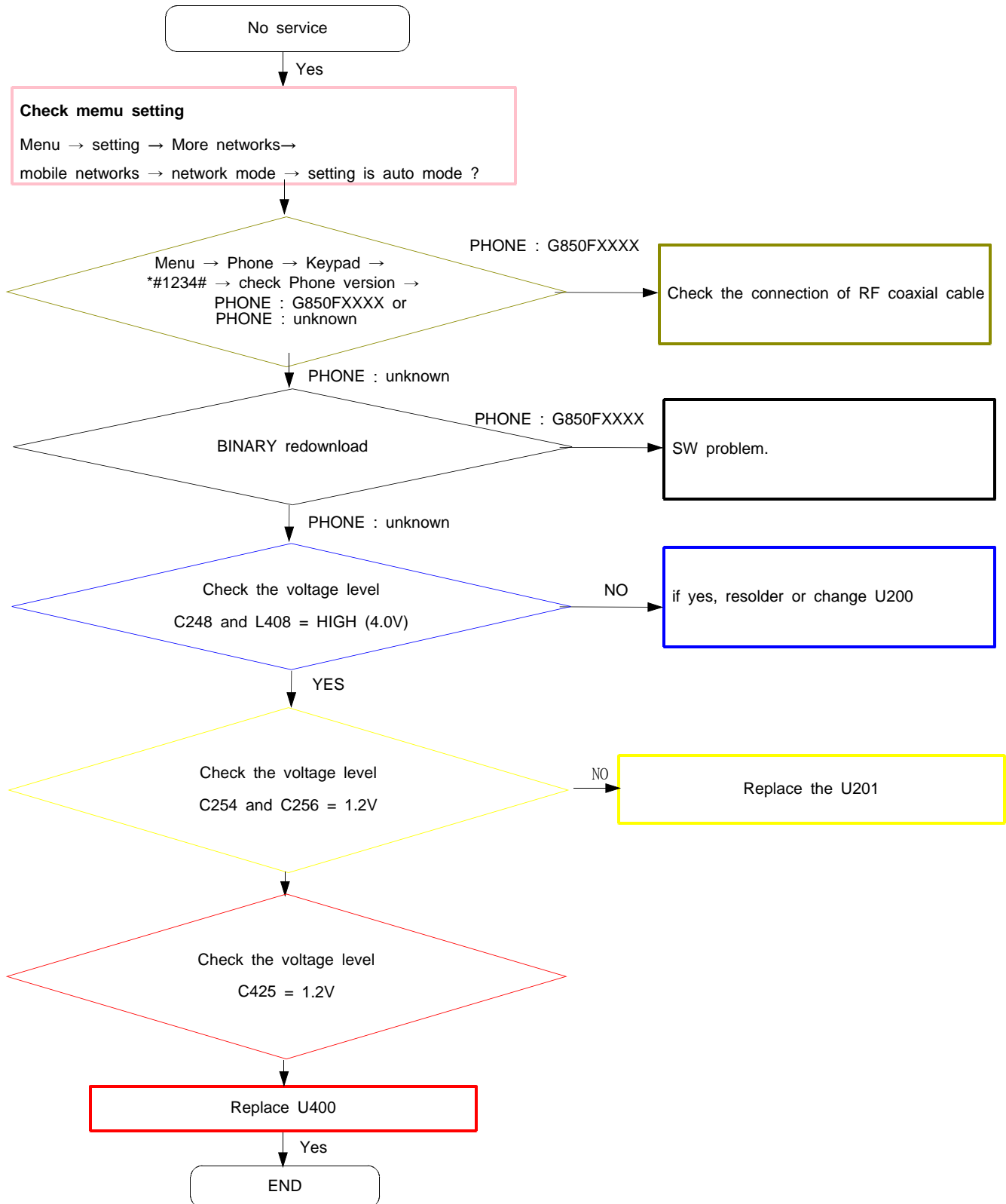


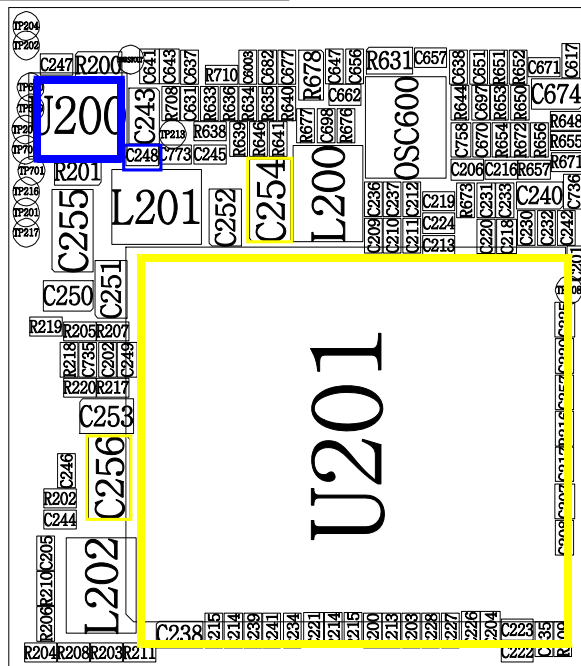
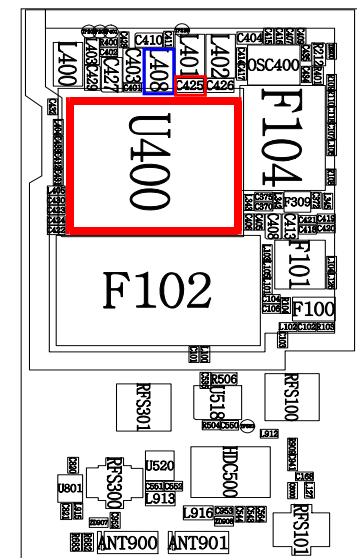
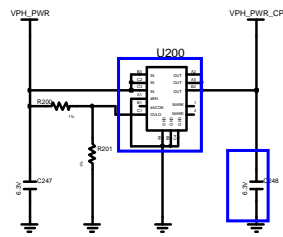
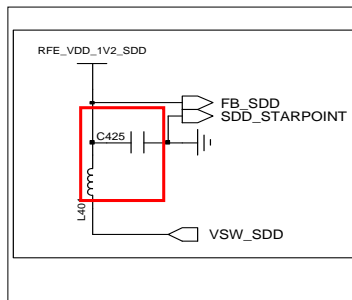
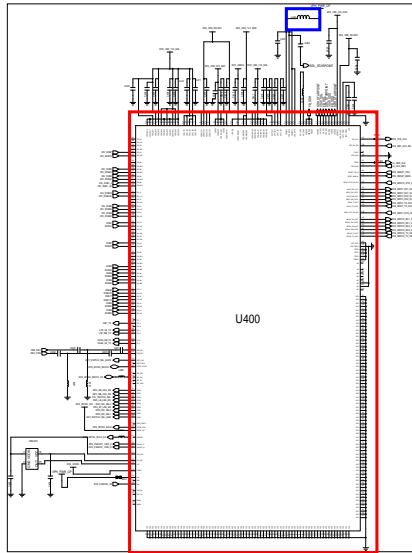




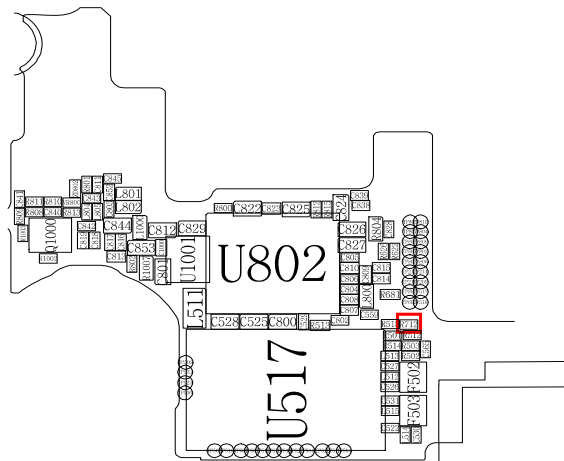
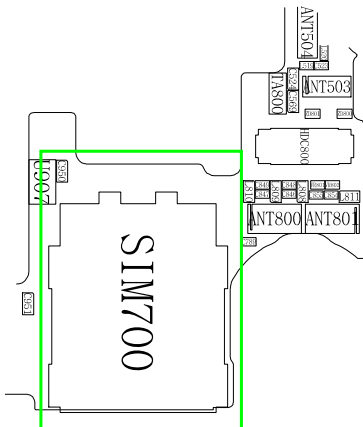
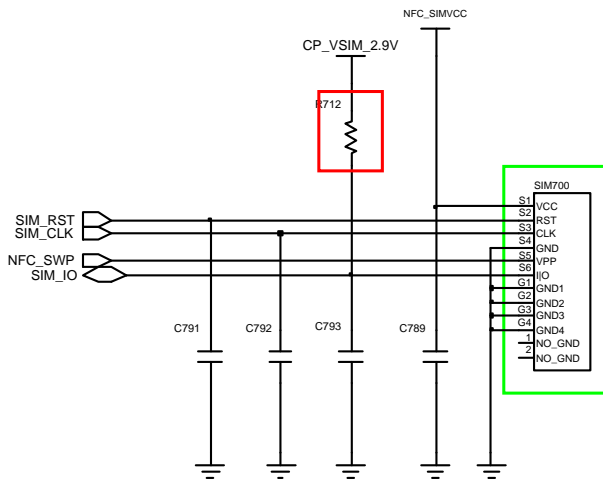
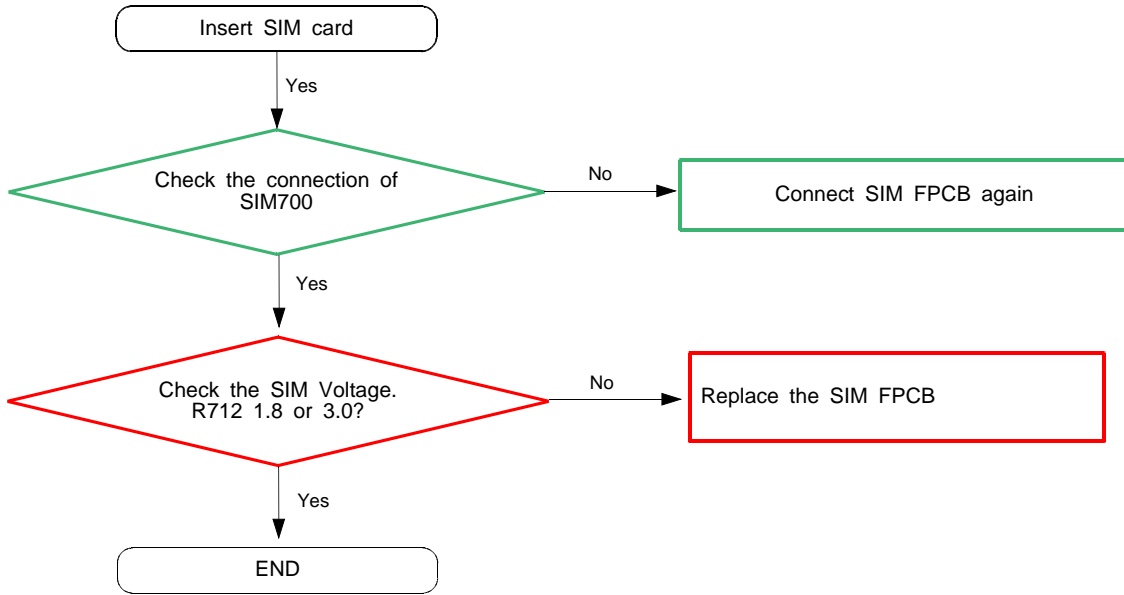


8-3-3. No Service

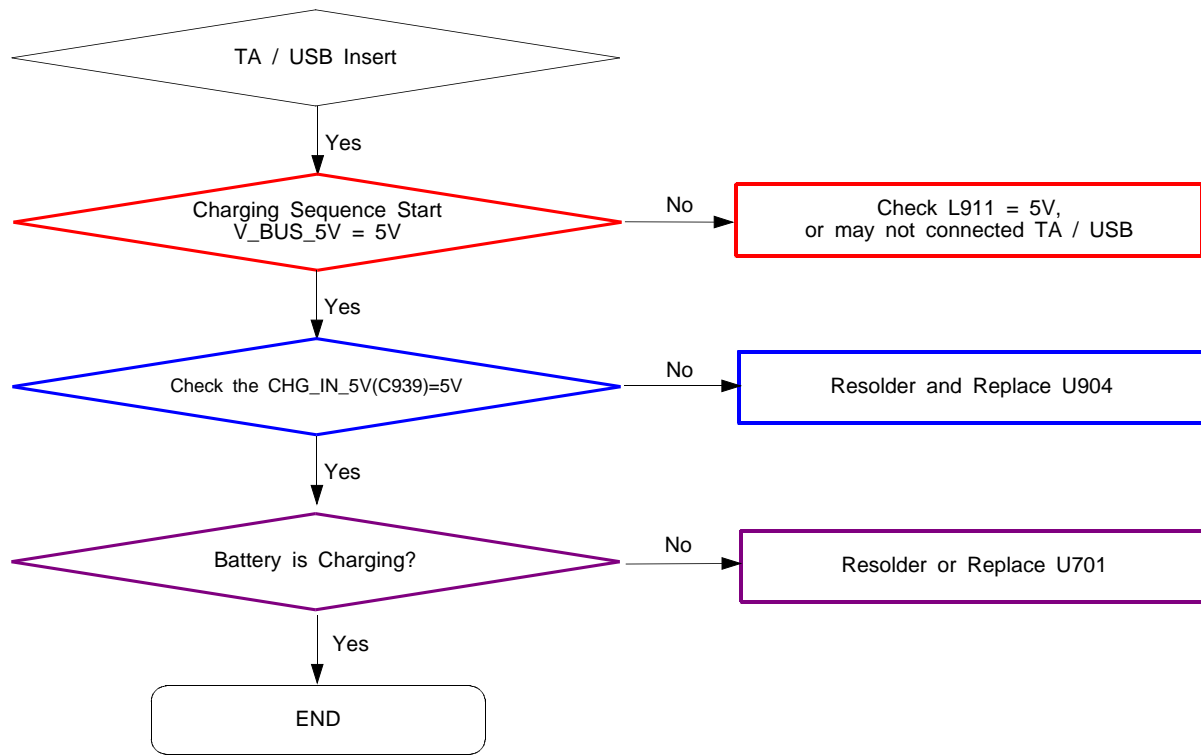


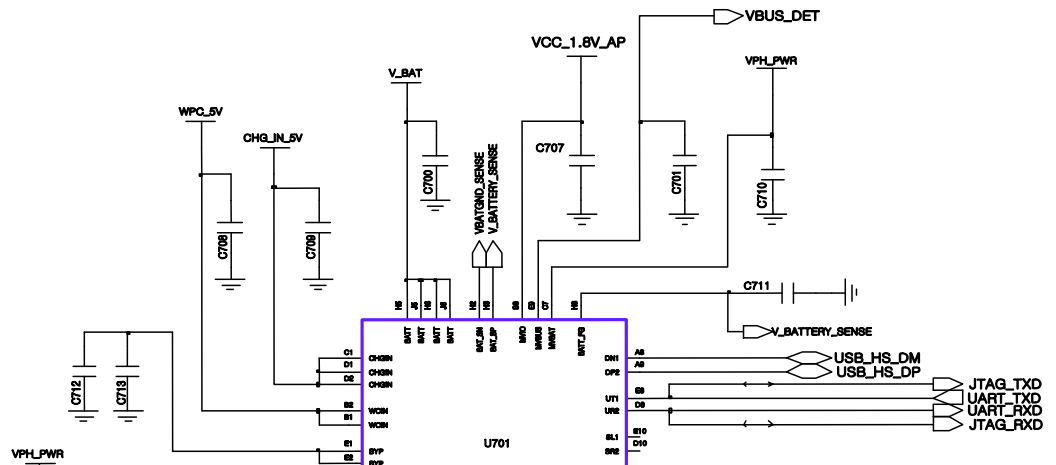
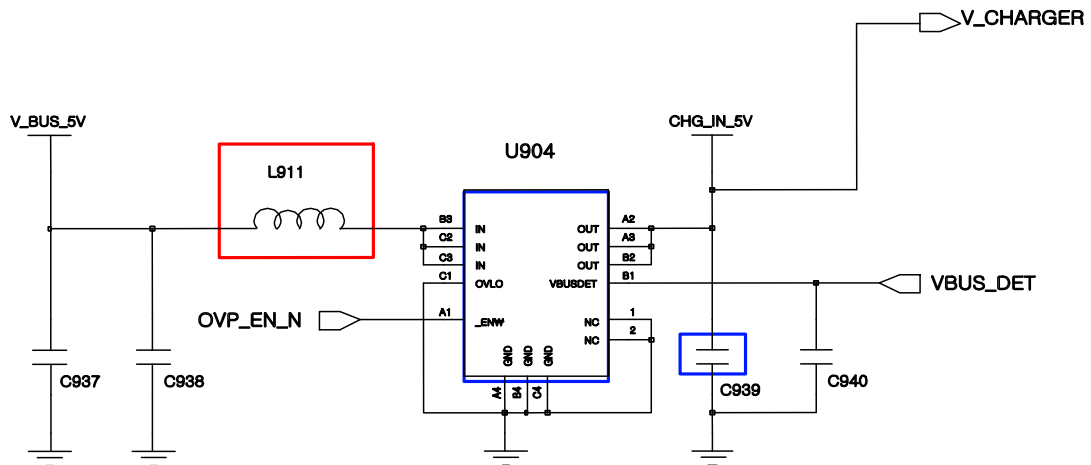


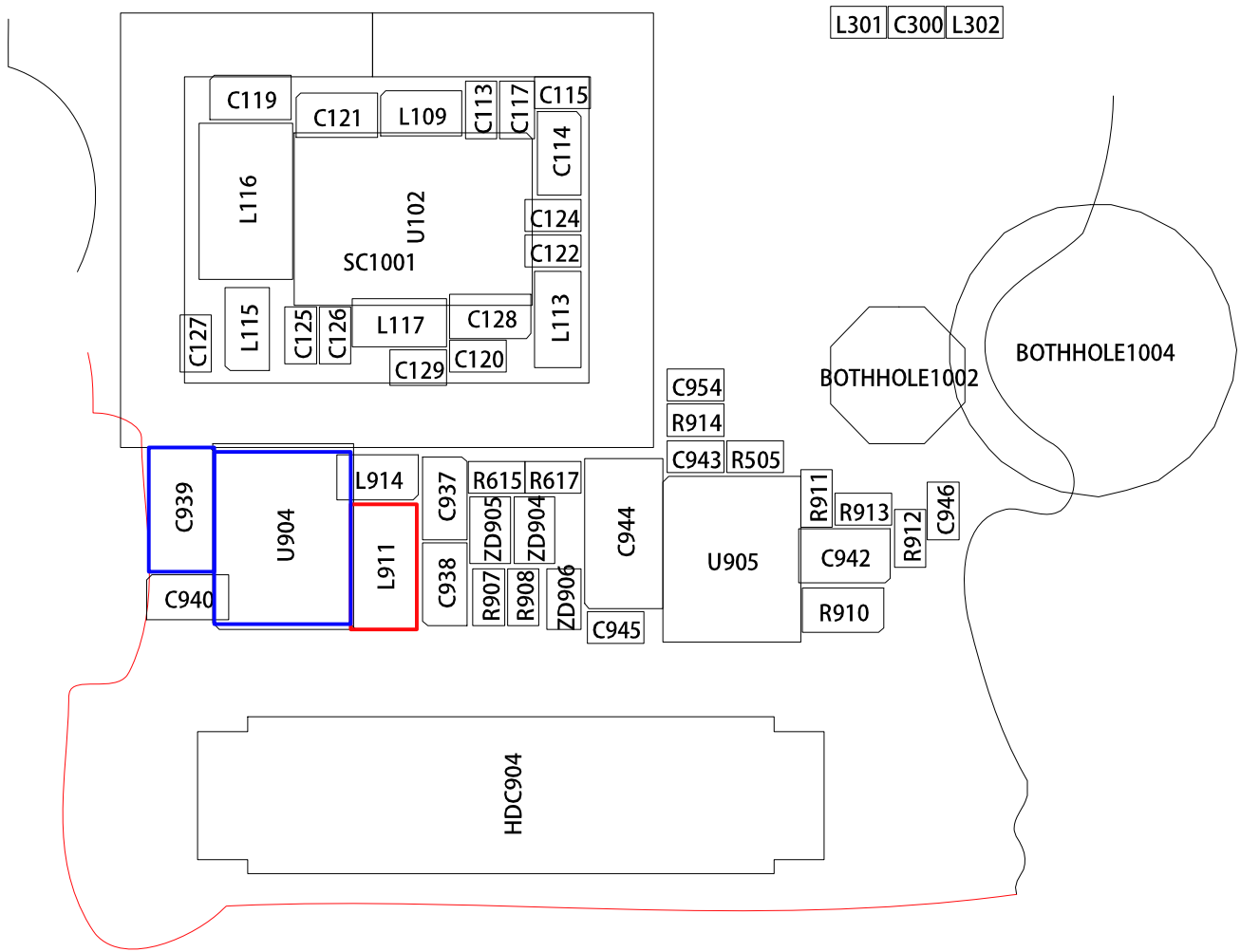
8-3-4. Sim Part



## 8-3-5. Charging Part

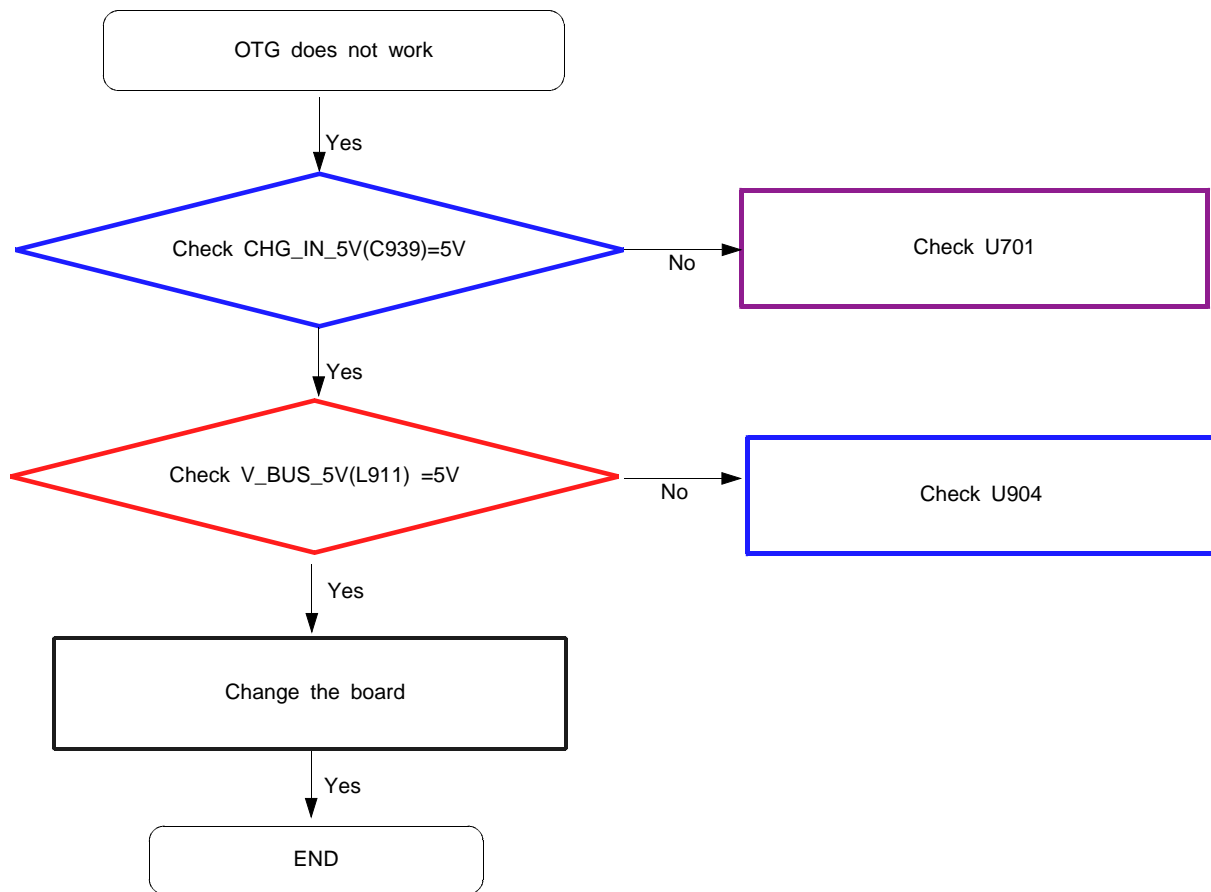


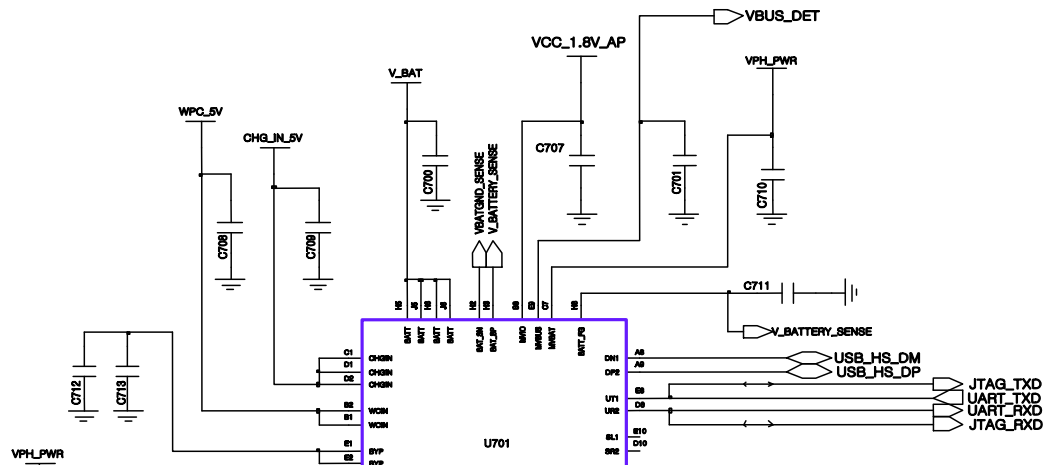
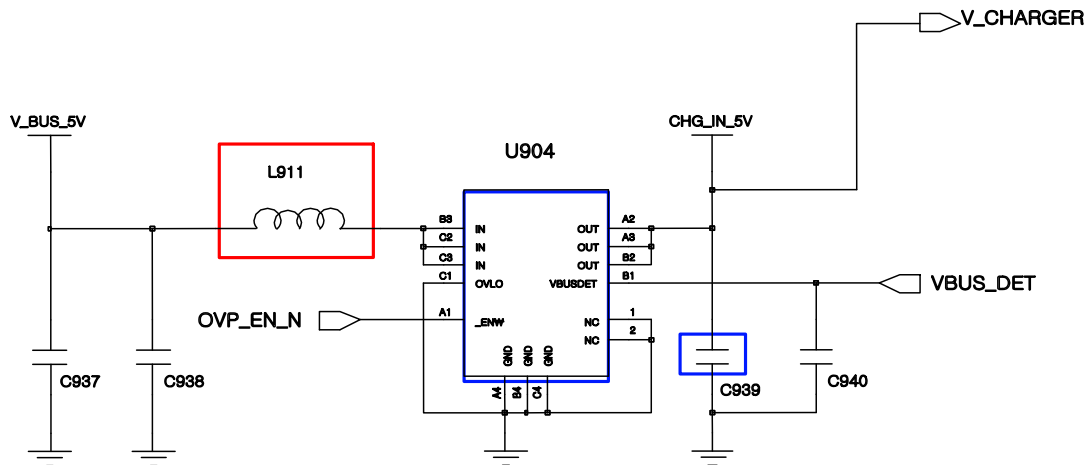


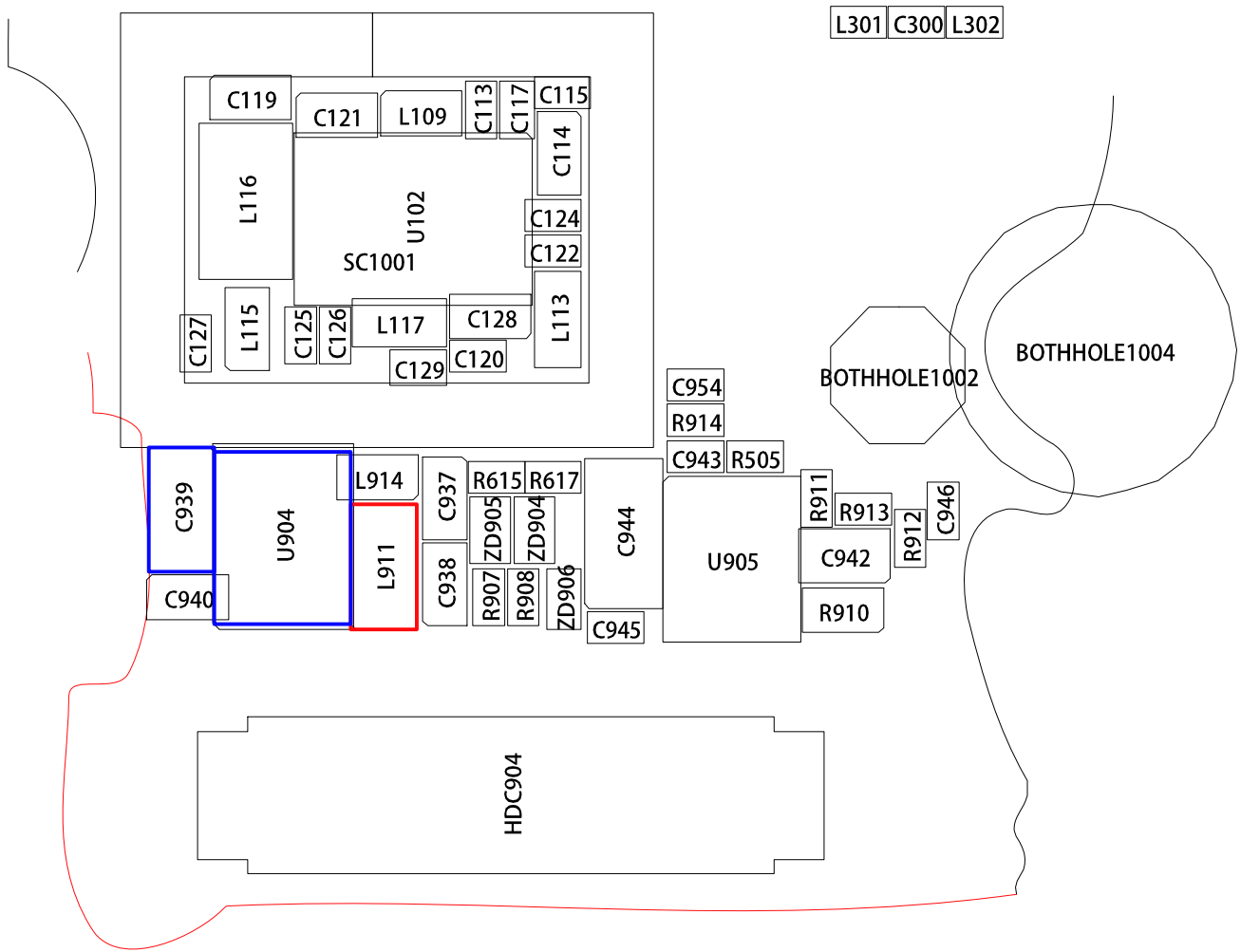




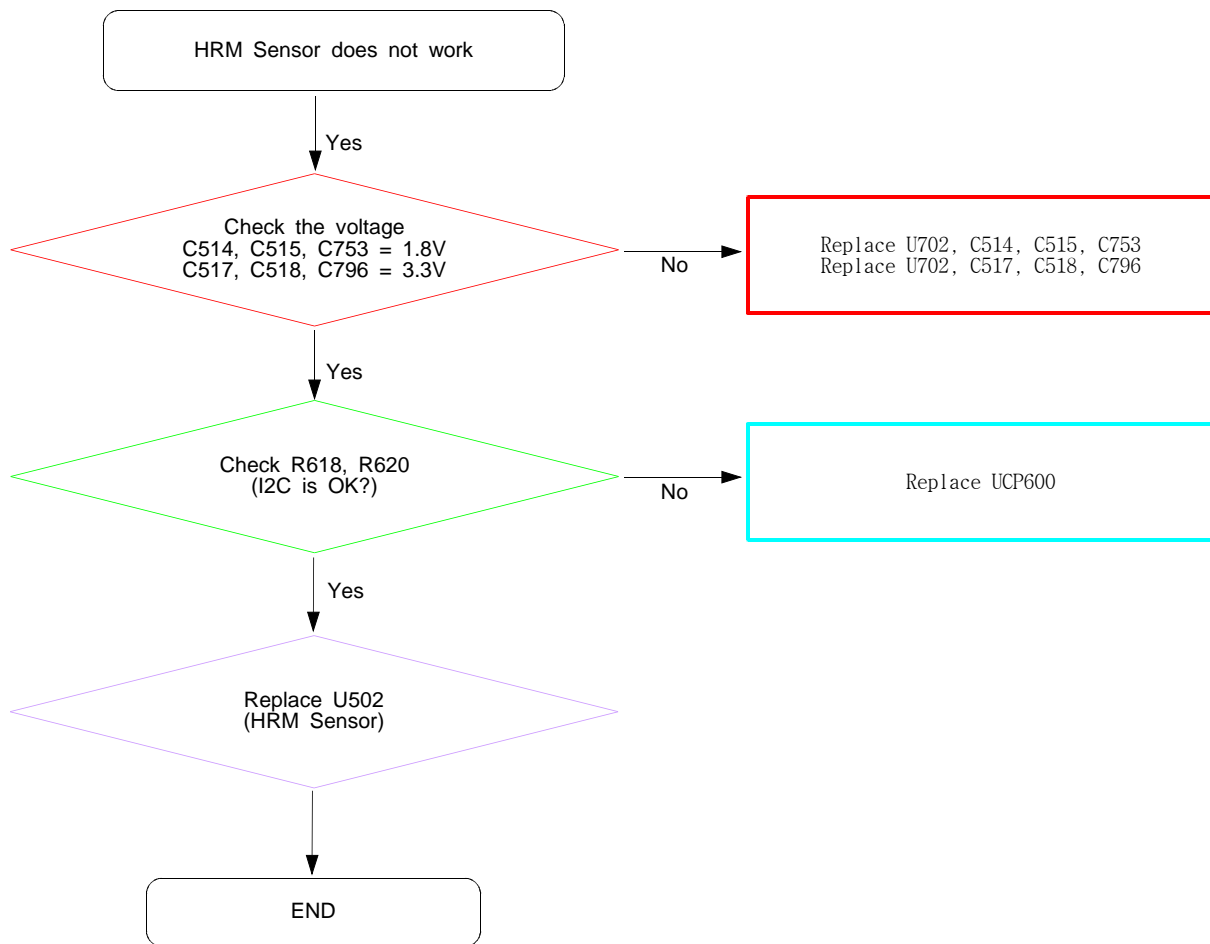
### 8-3-6. OTG

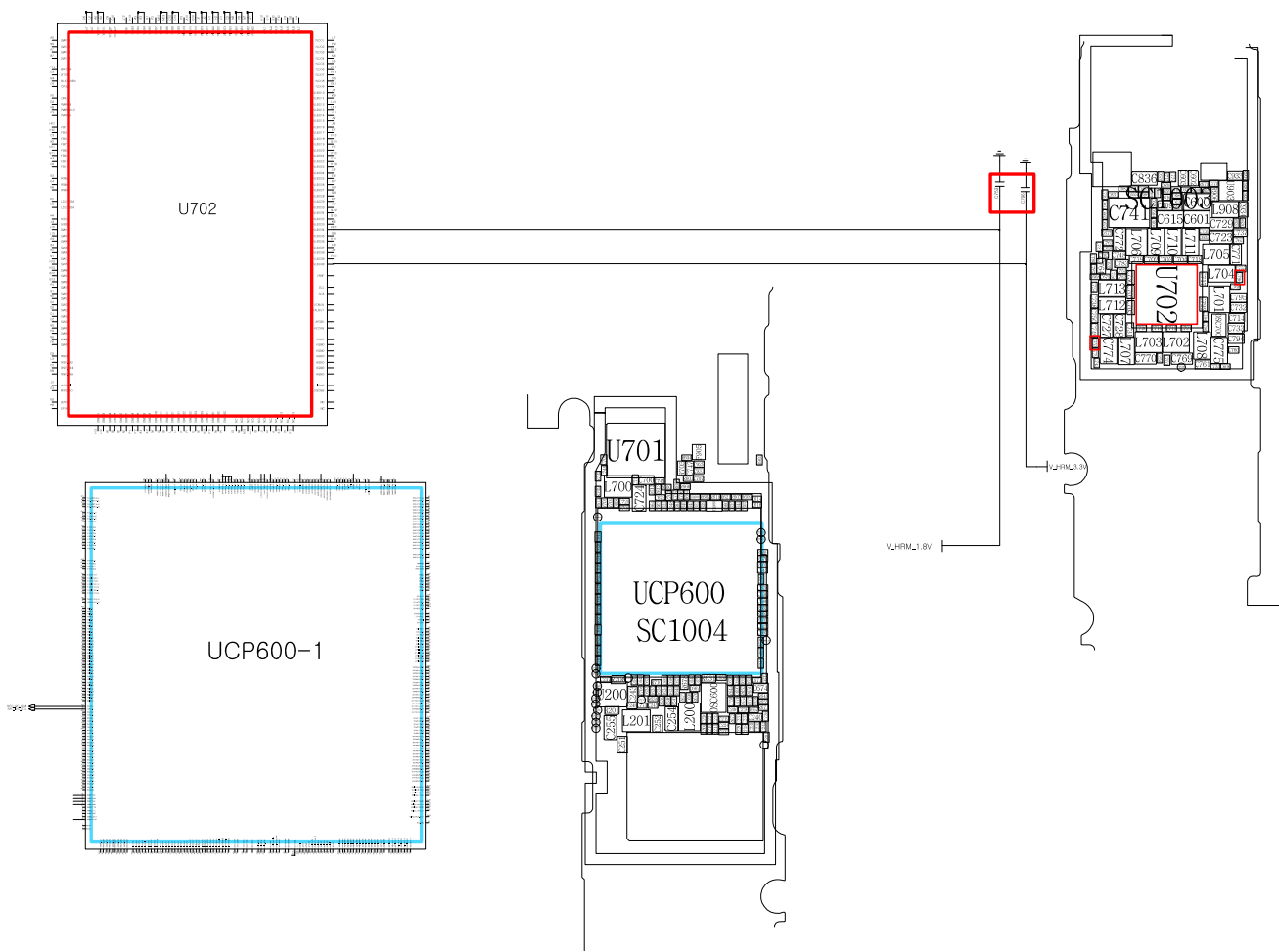
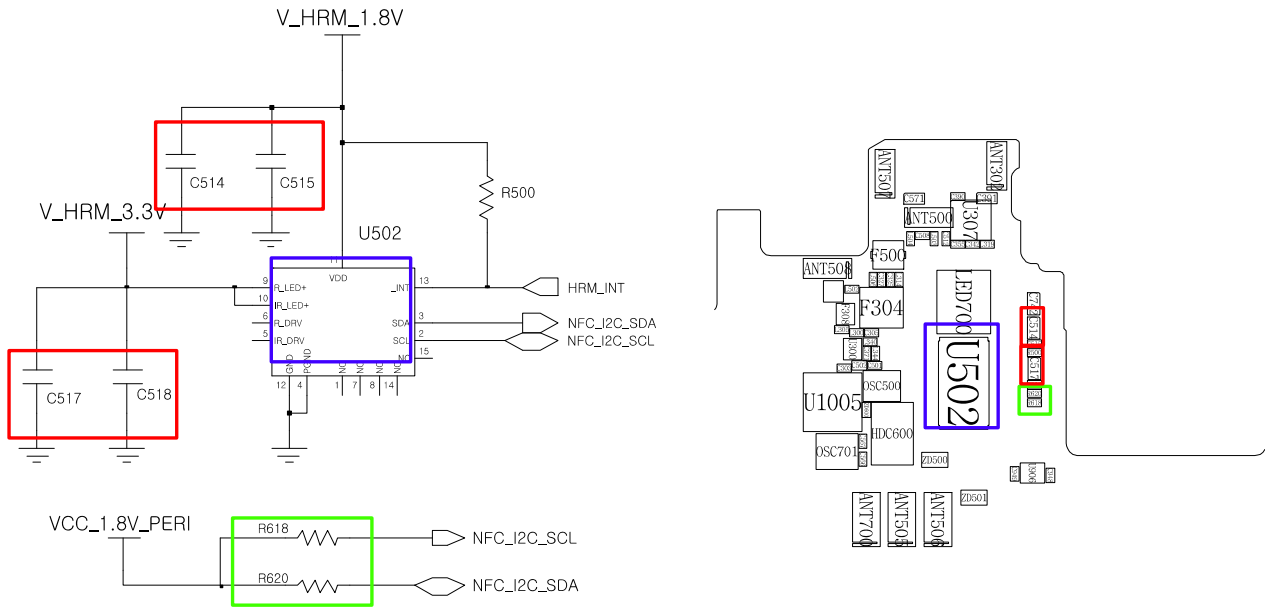




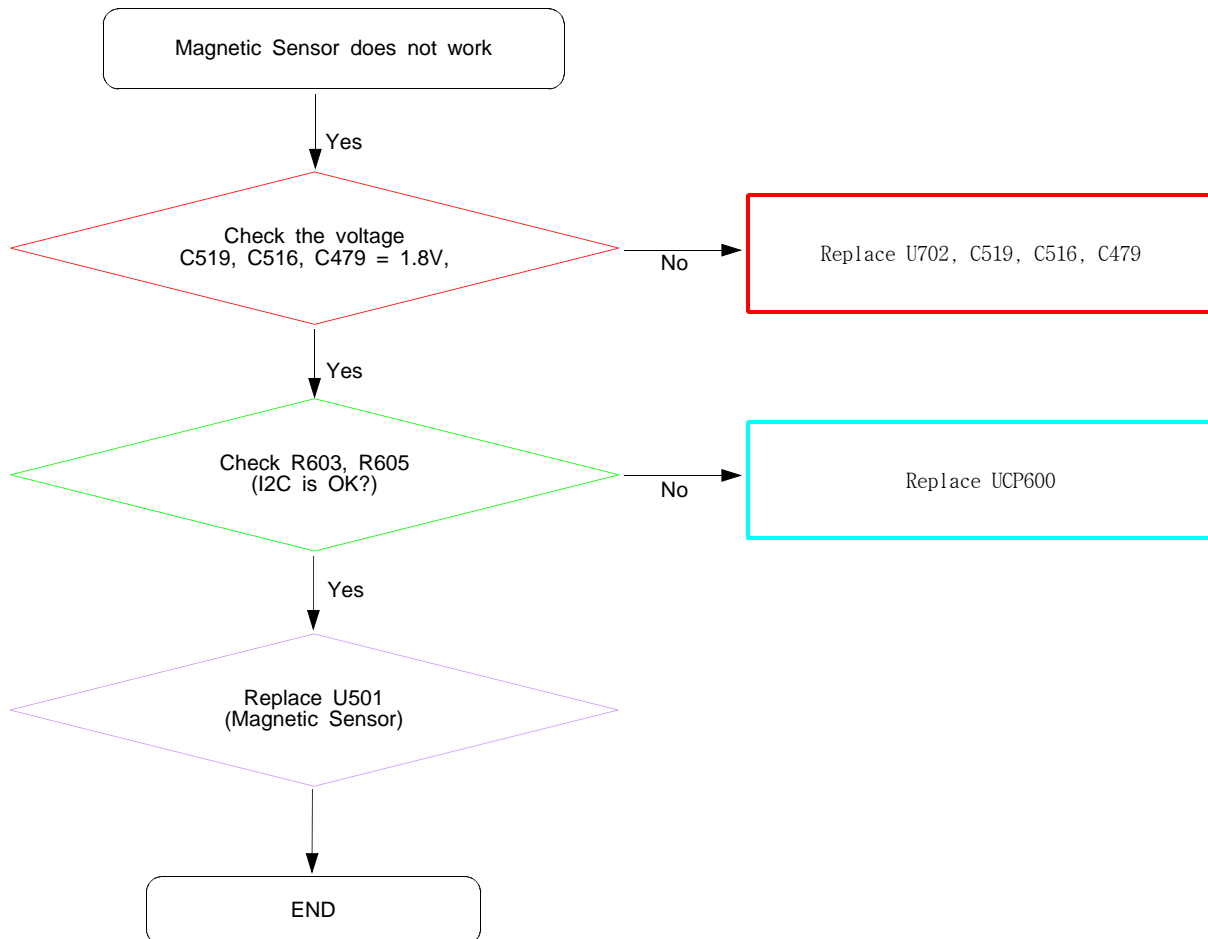


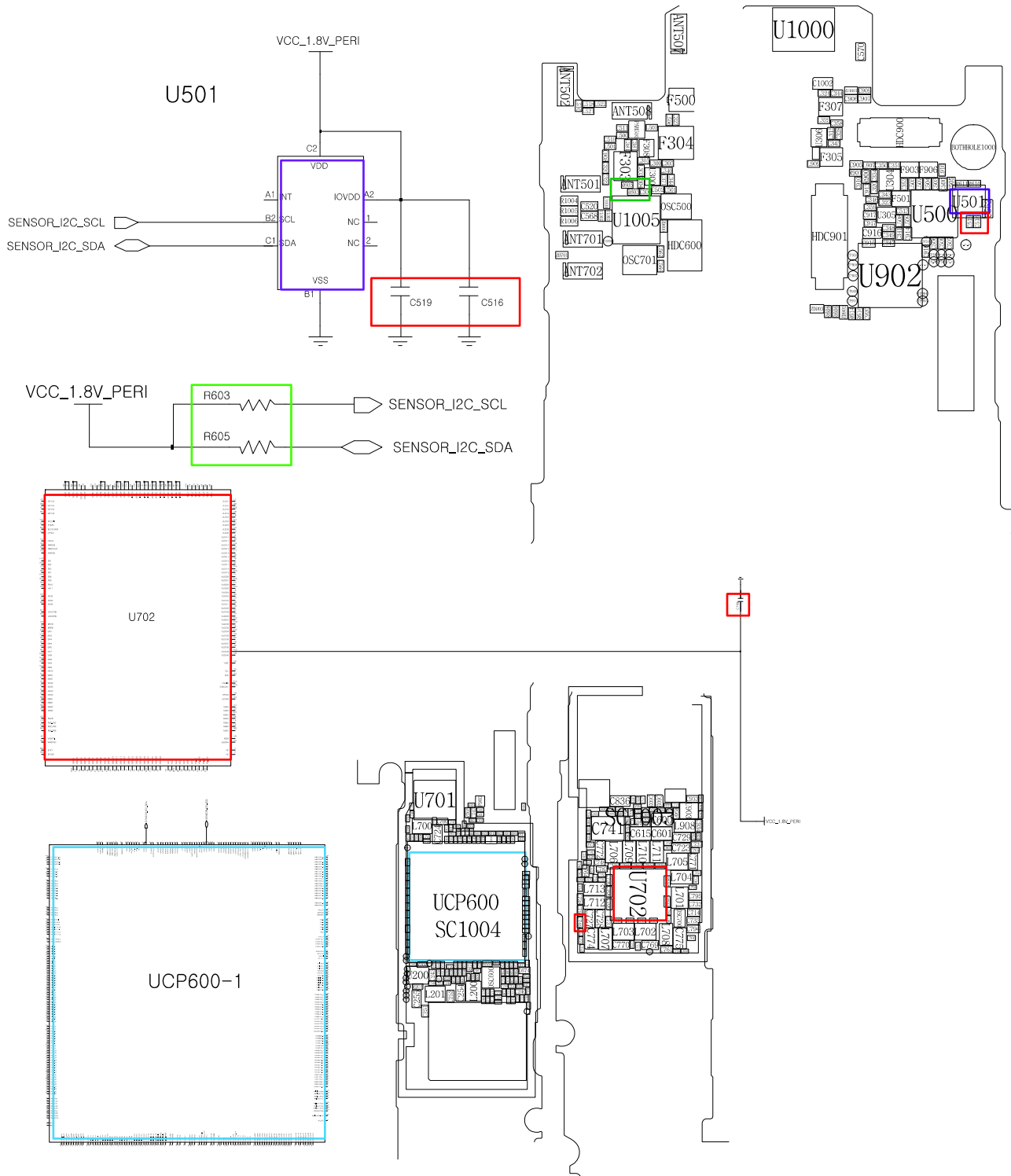
8-3-7-1. HRM Sensor



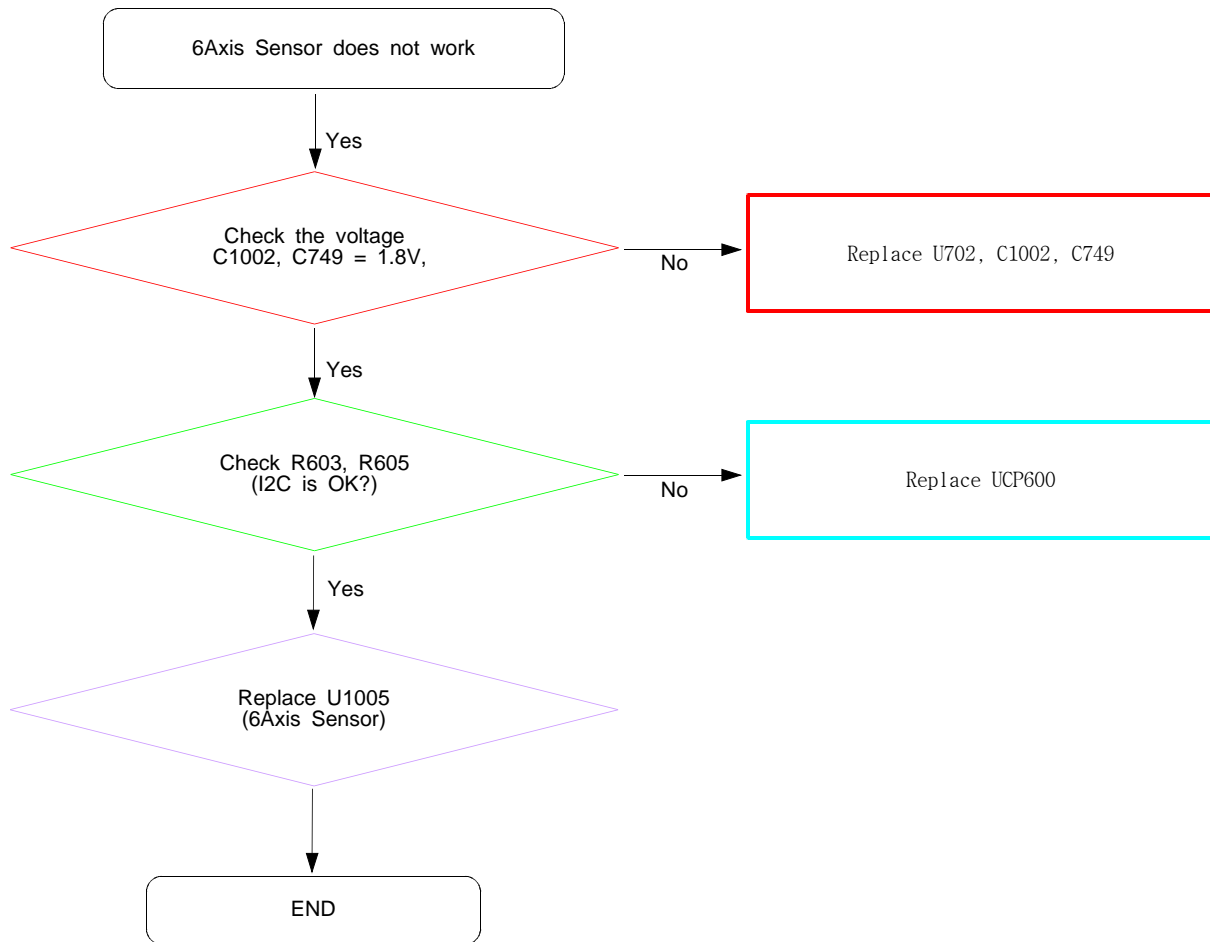


## 8-3-7-2. Magnetic Sensor

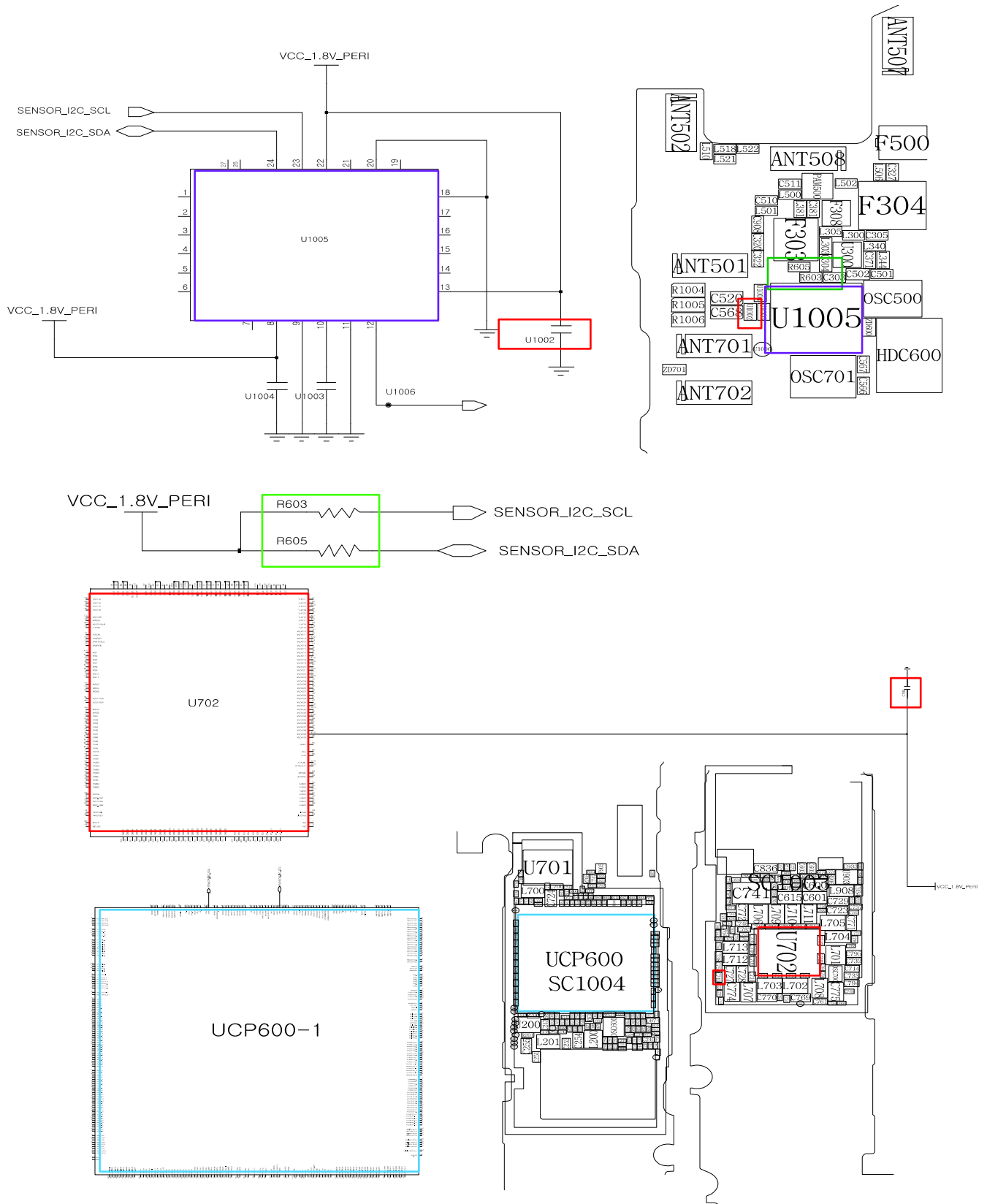




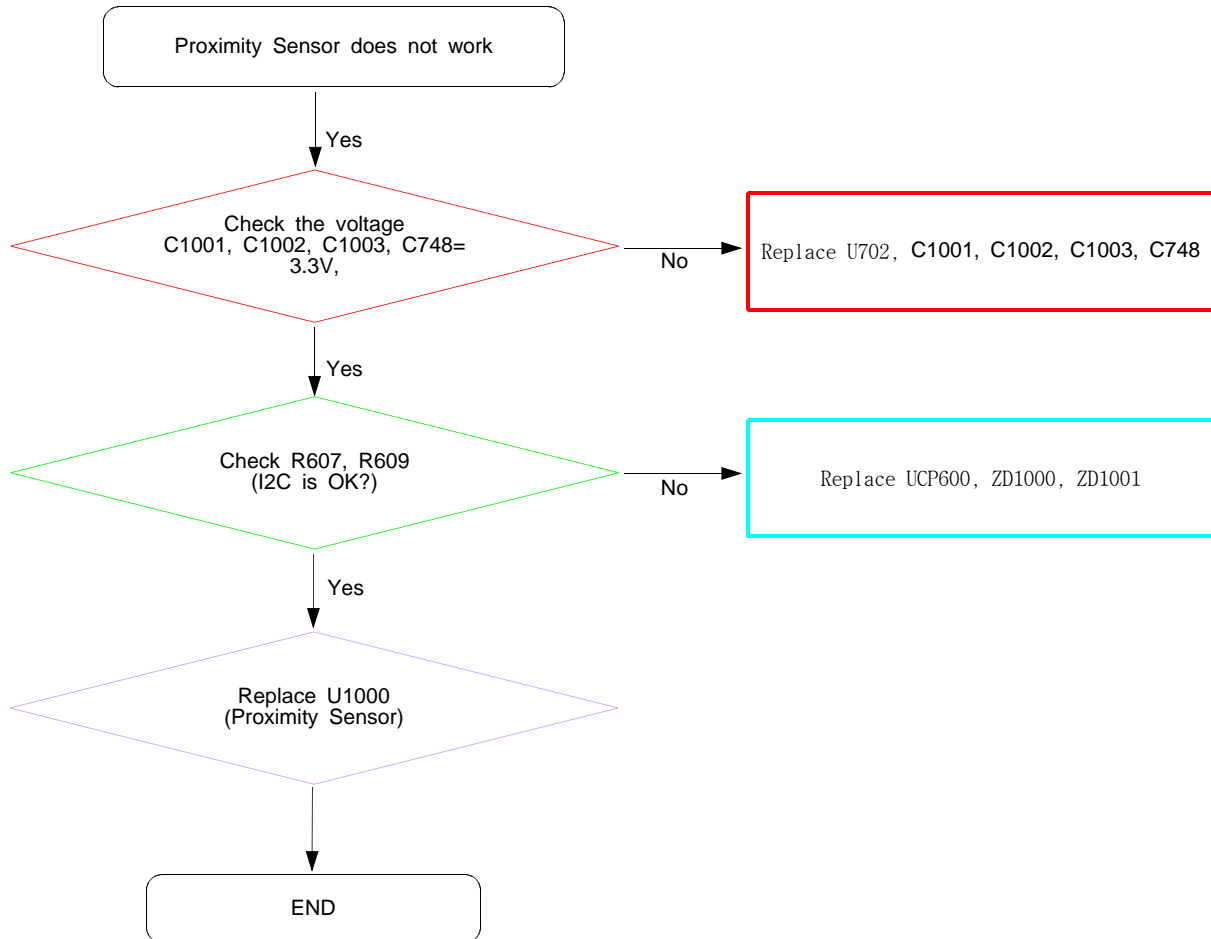
8-3-7-3. 6Axis Sensor

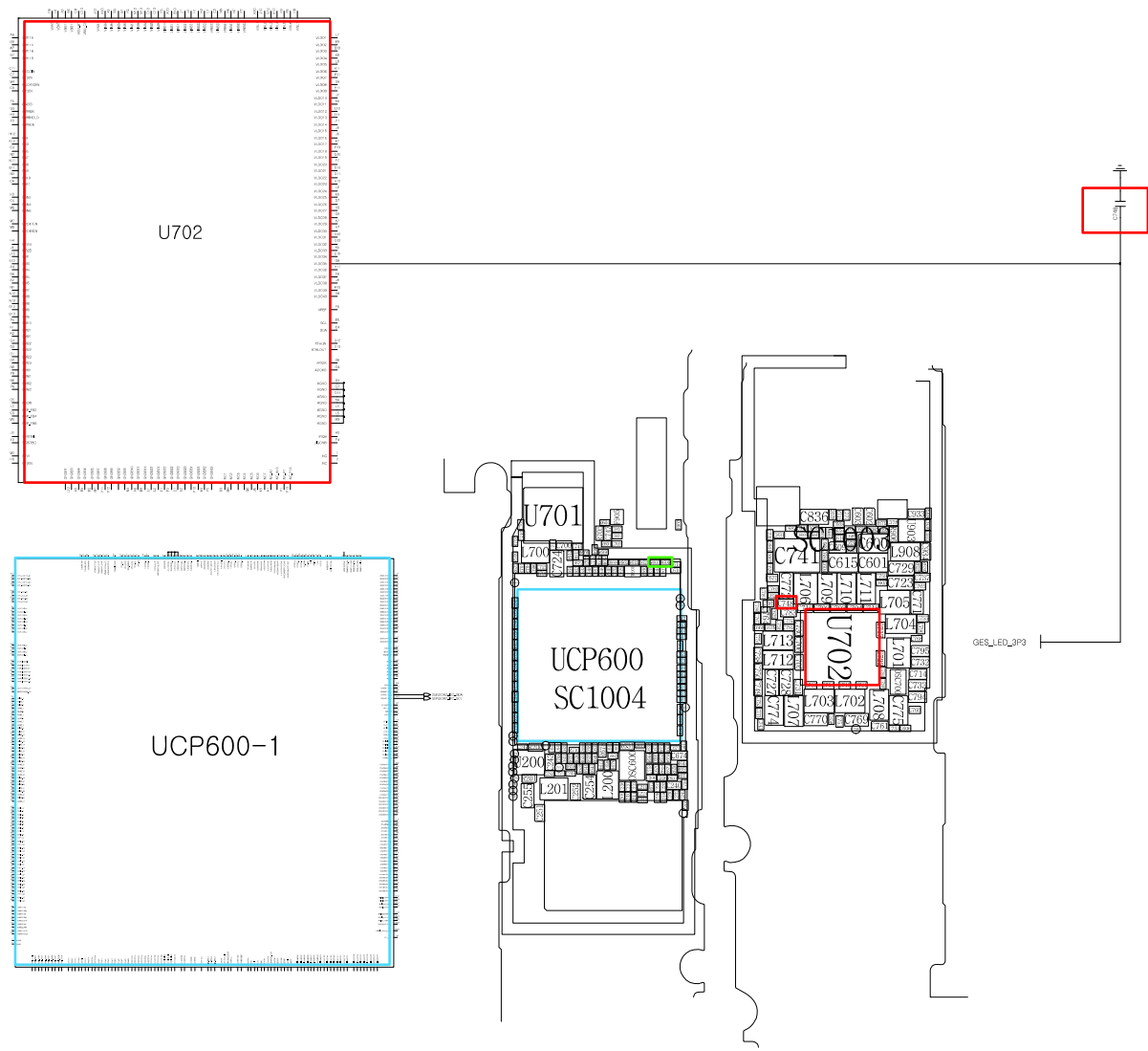
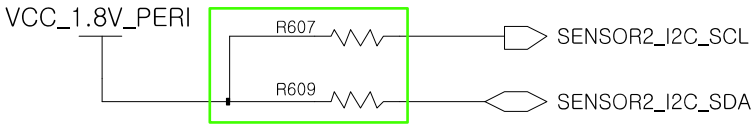
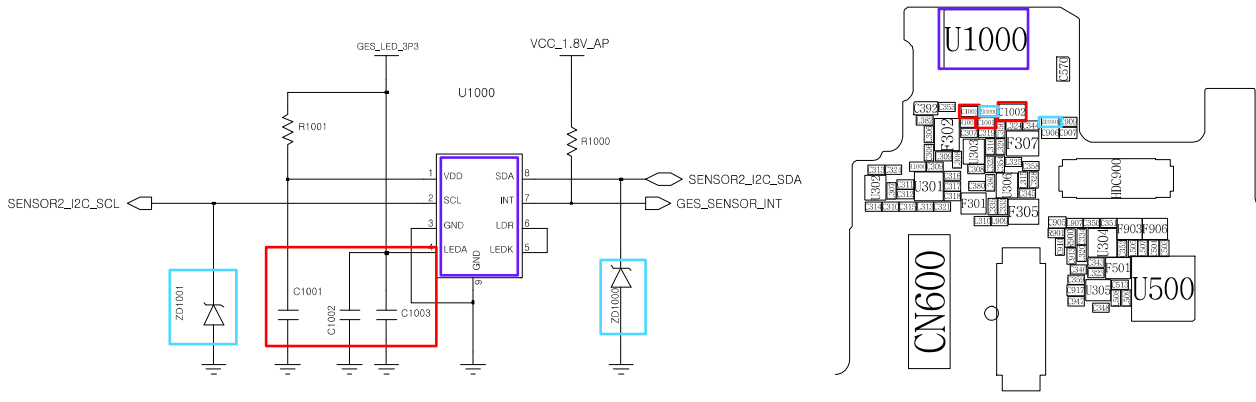




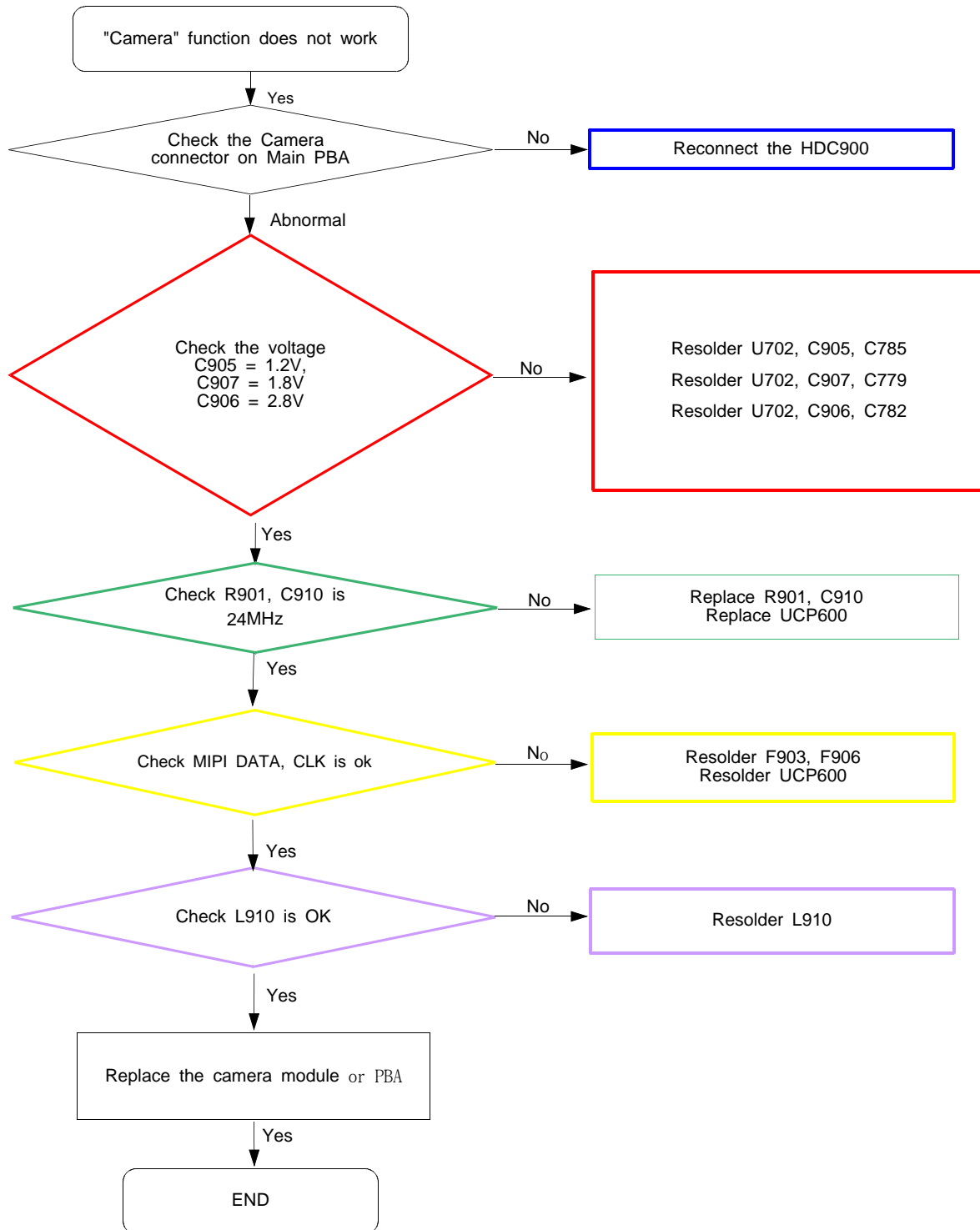


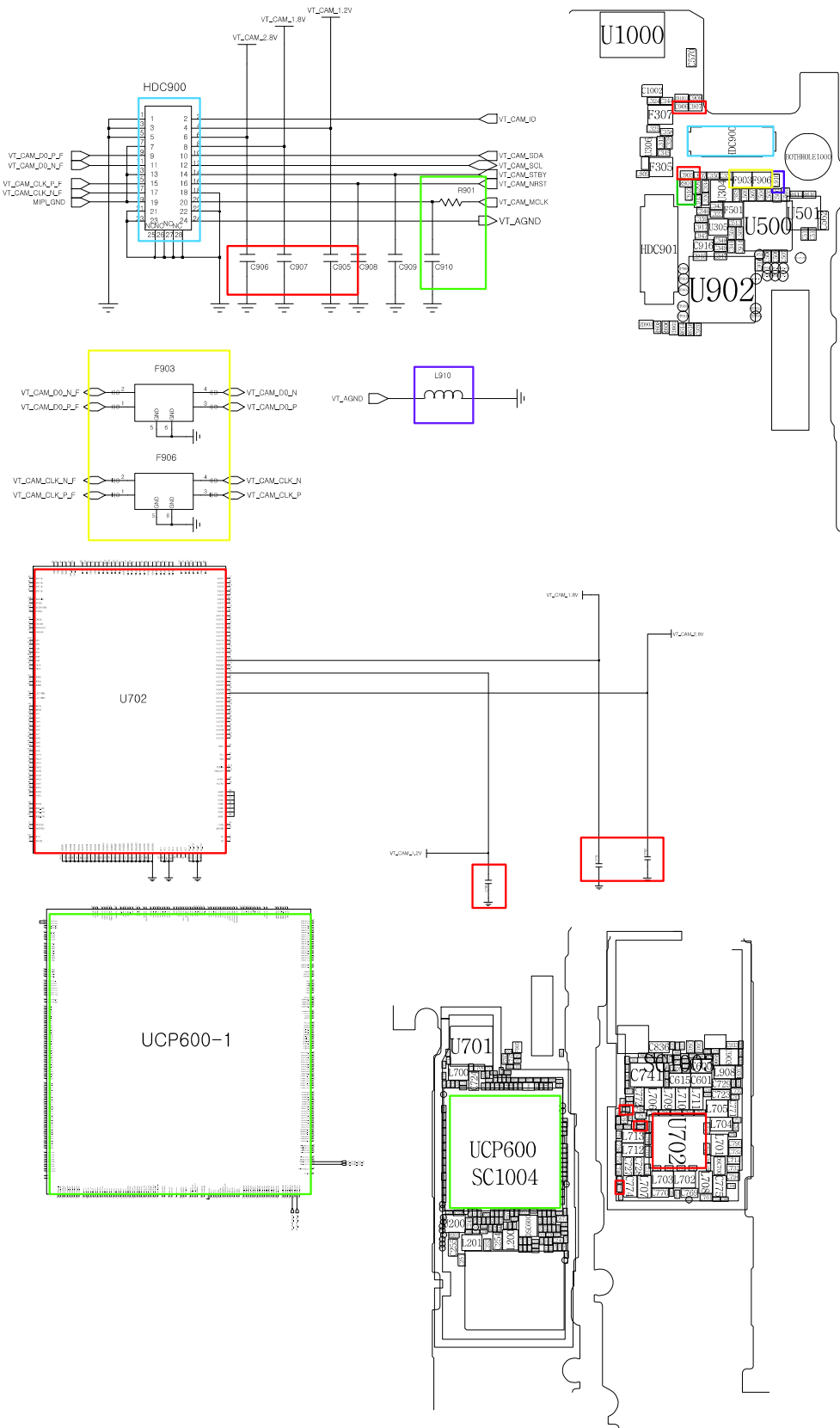
8-3-7-4. Proximity Sensor



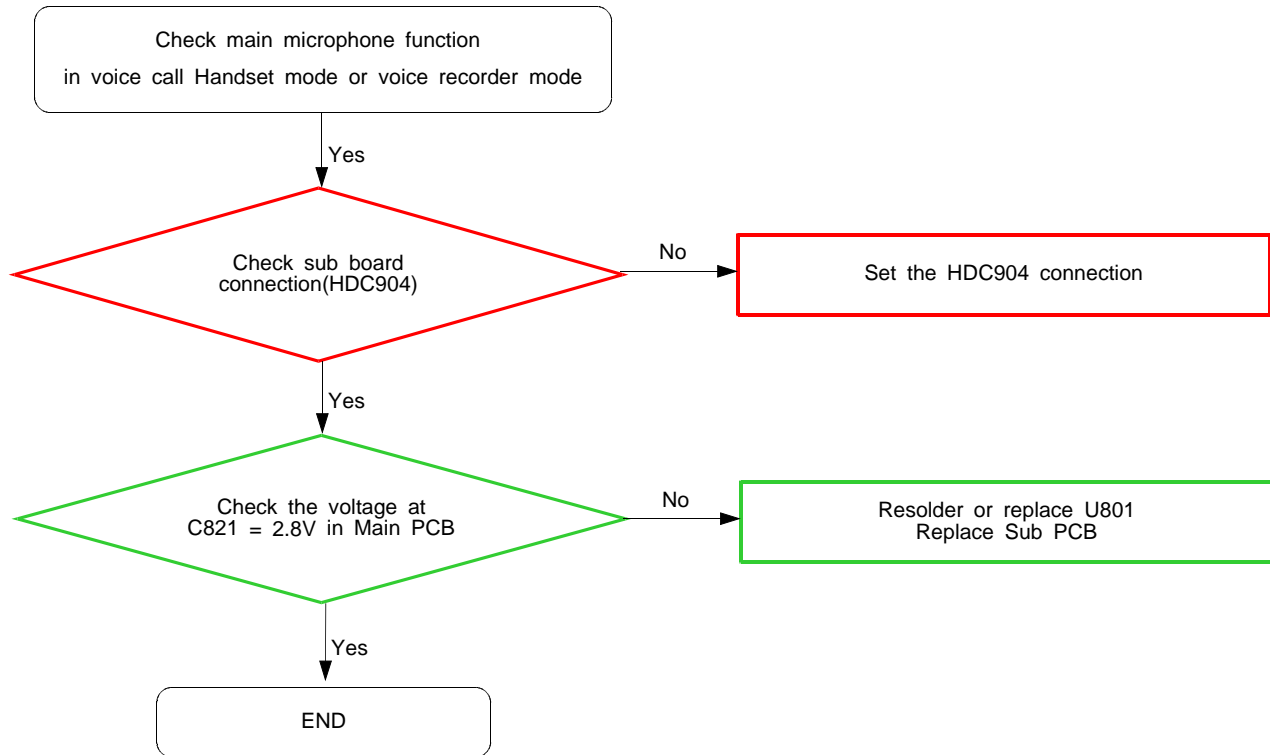


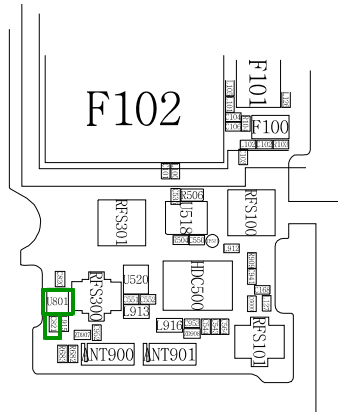
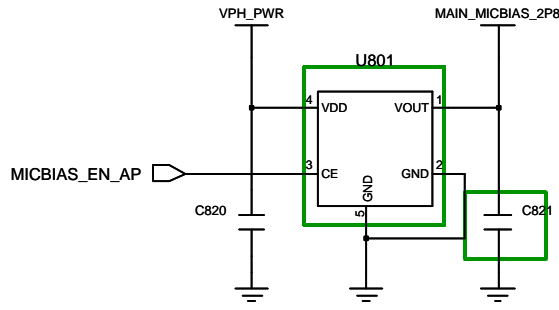
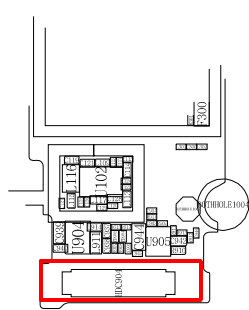
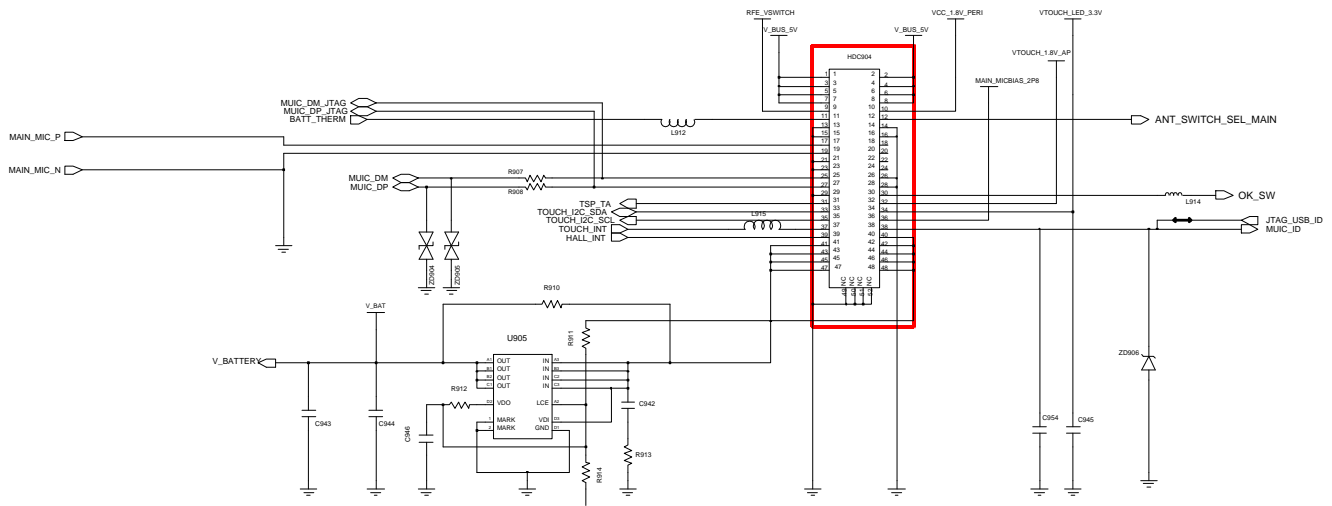
8-3-8. 2M Camera



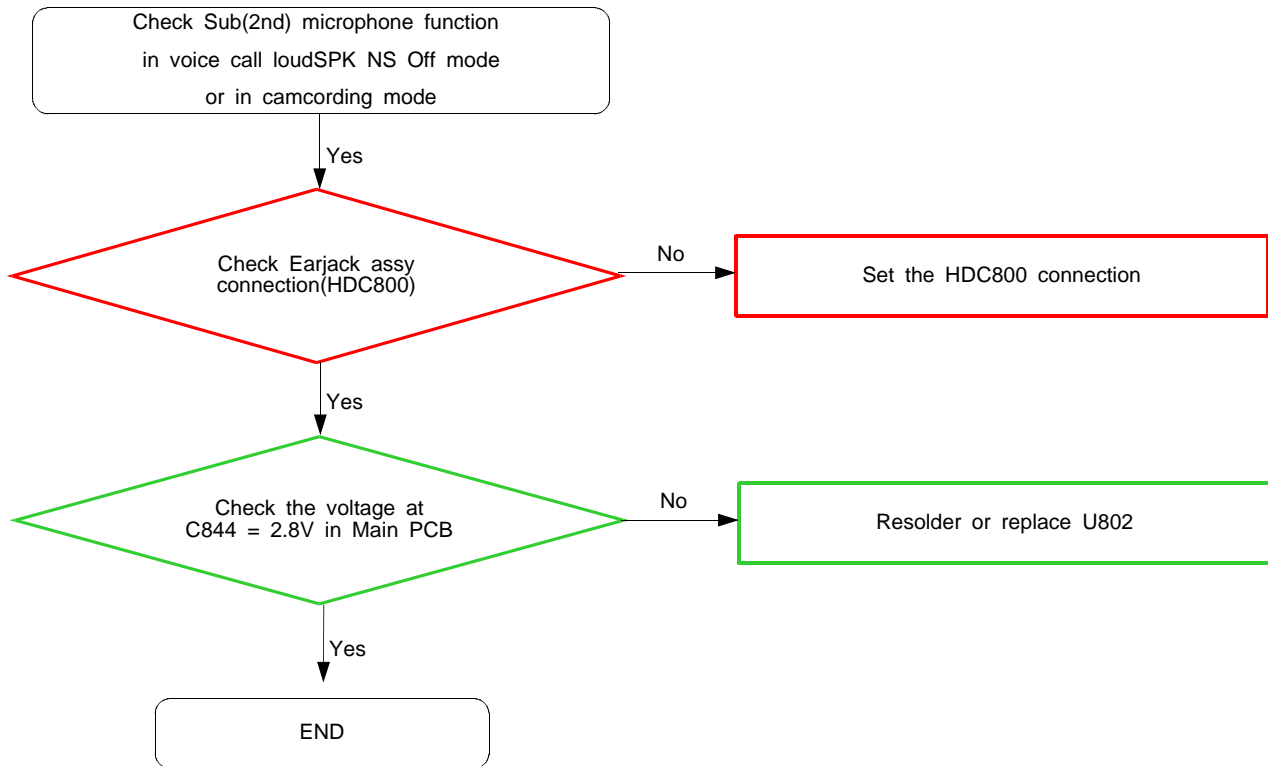


## 8-3-9-1 Microphone Part - Main MIC

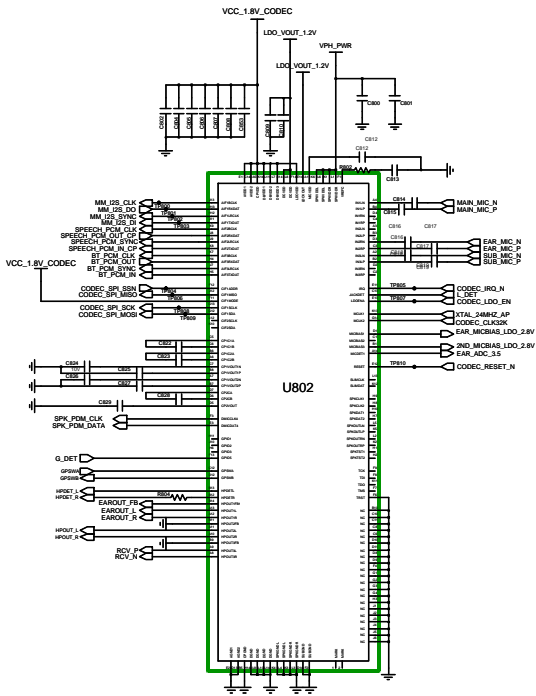
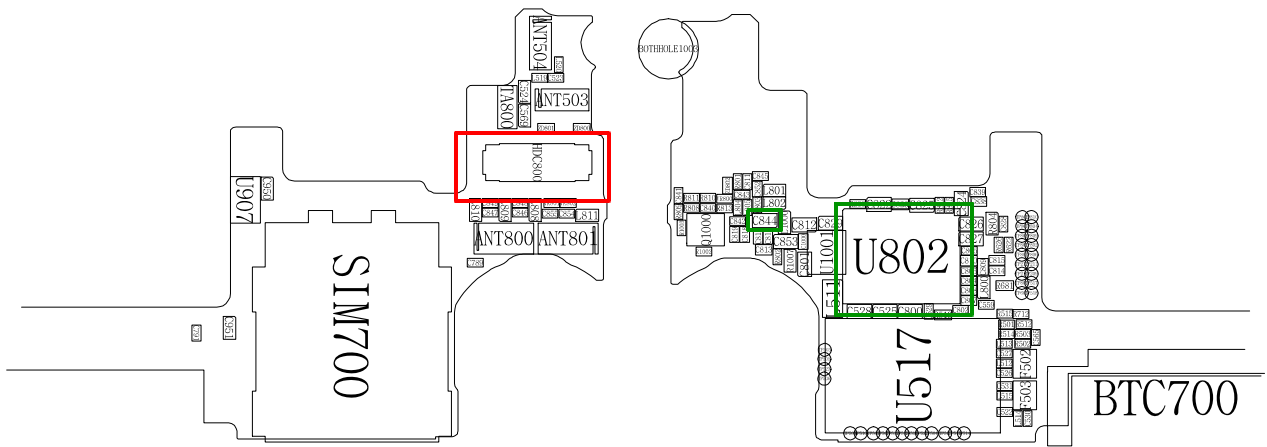
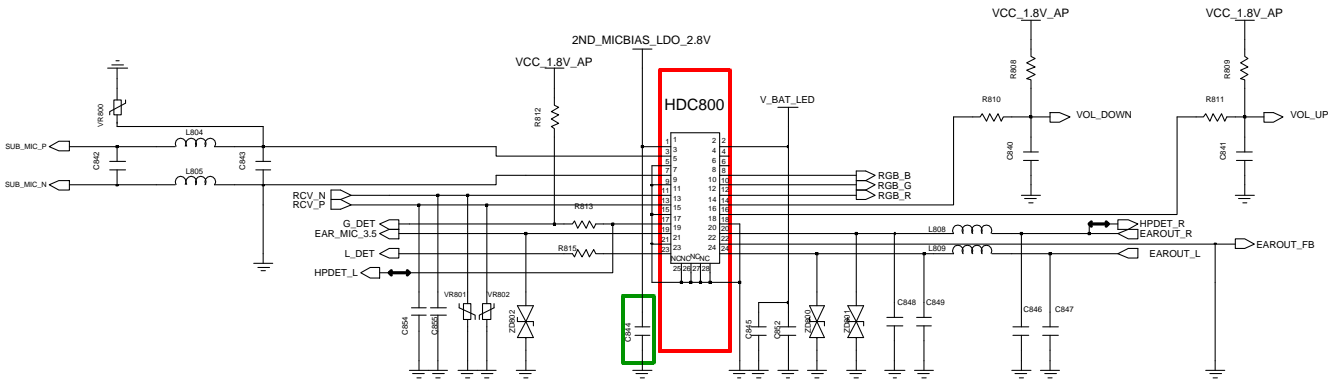




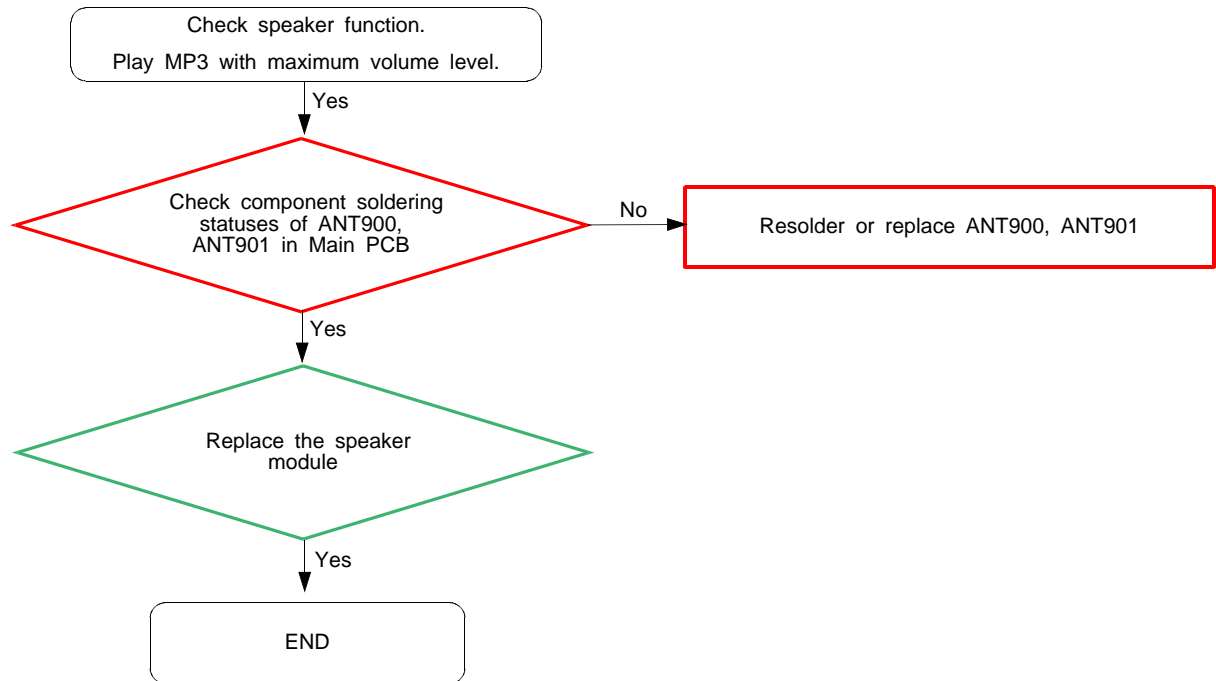
8-3-9-2. Microphone Part - Sub(2nd) MIC

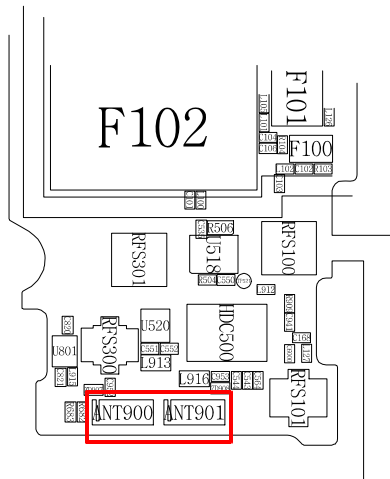
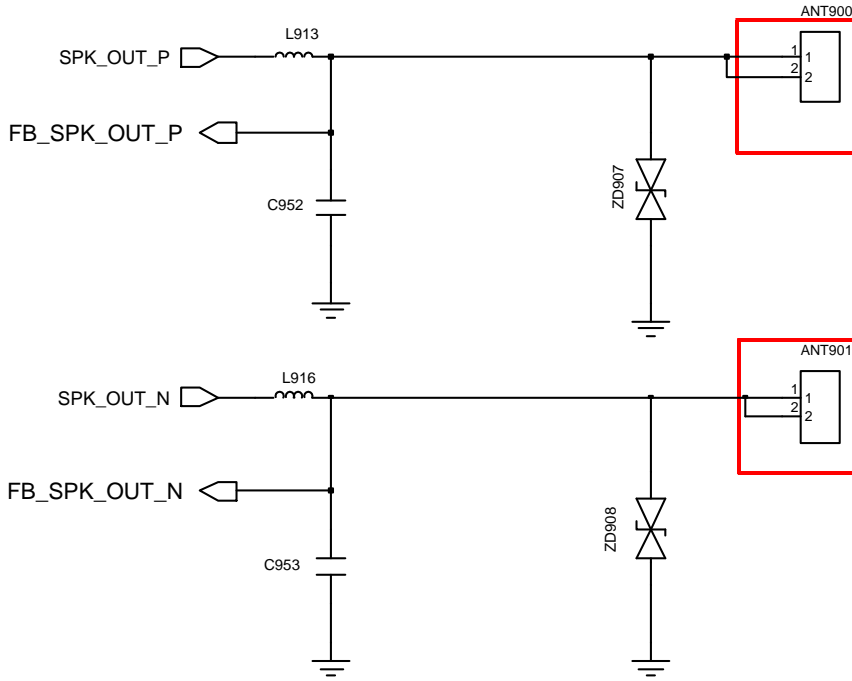




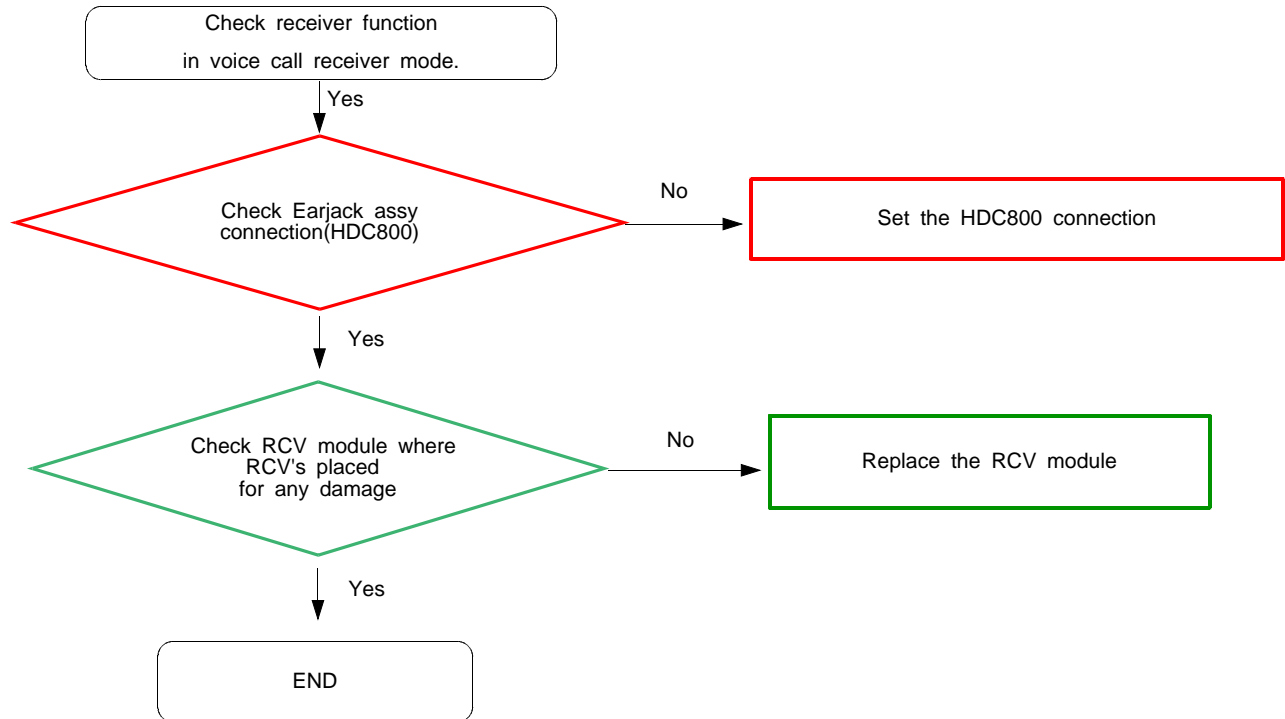


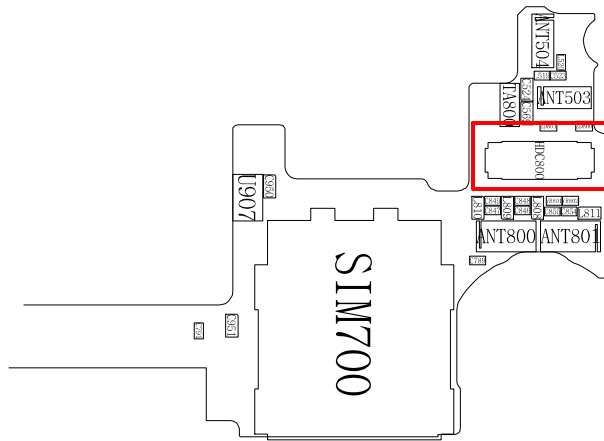
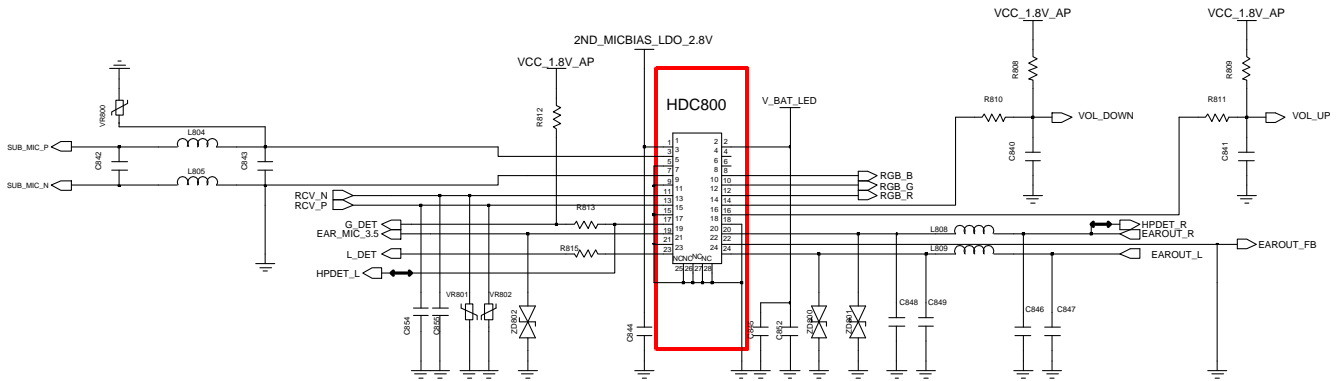
## 8-3-10. Speaker Part





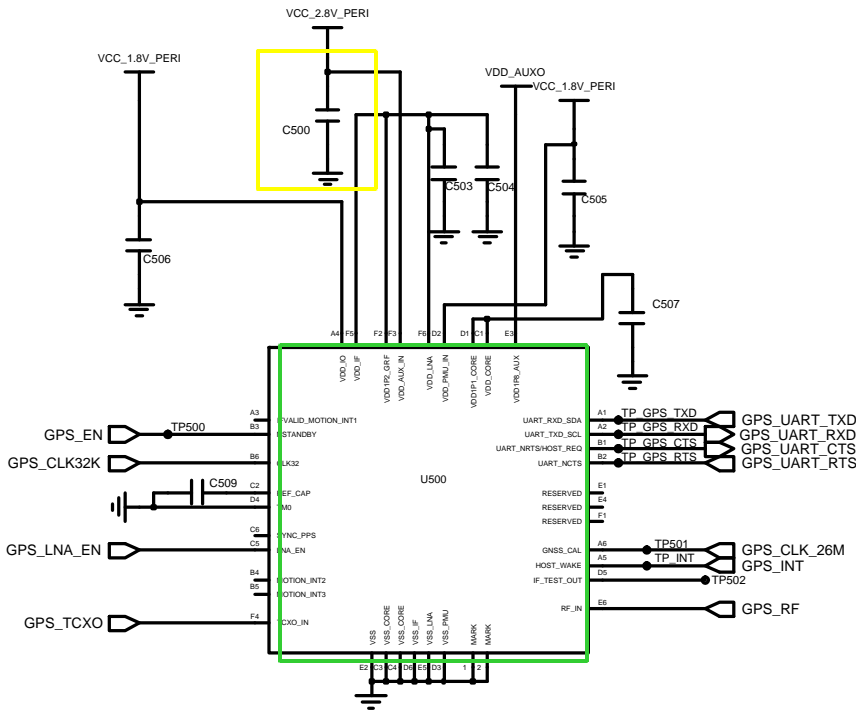
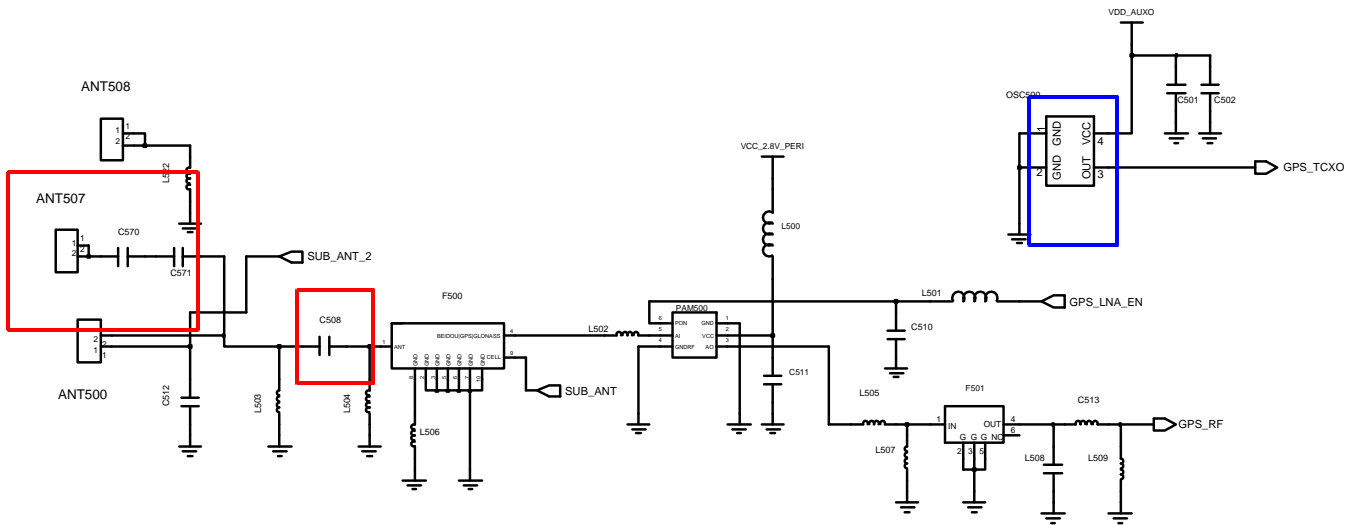
## 8-3-11. Receiver Part

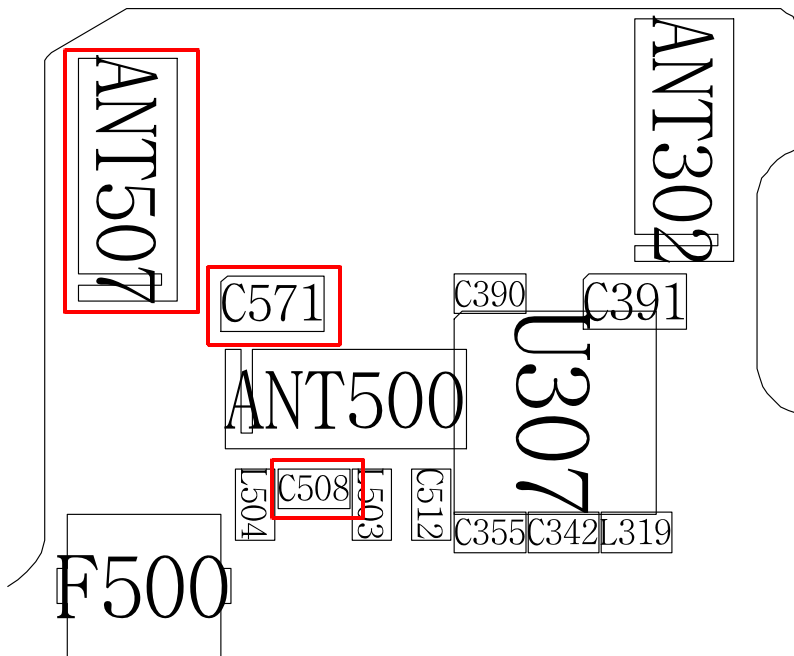
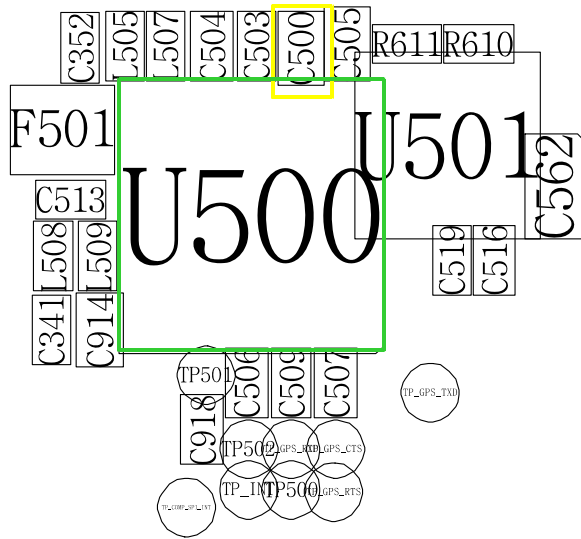




8-3-12. GPS

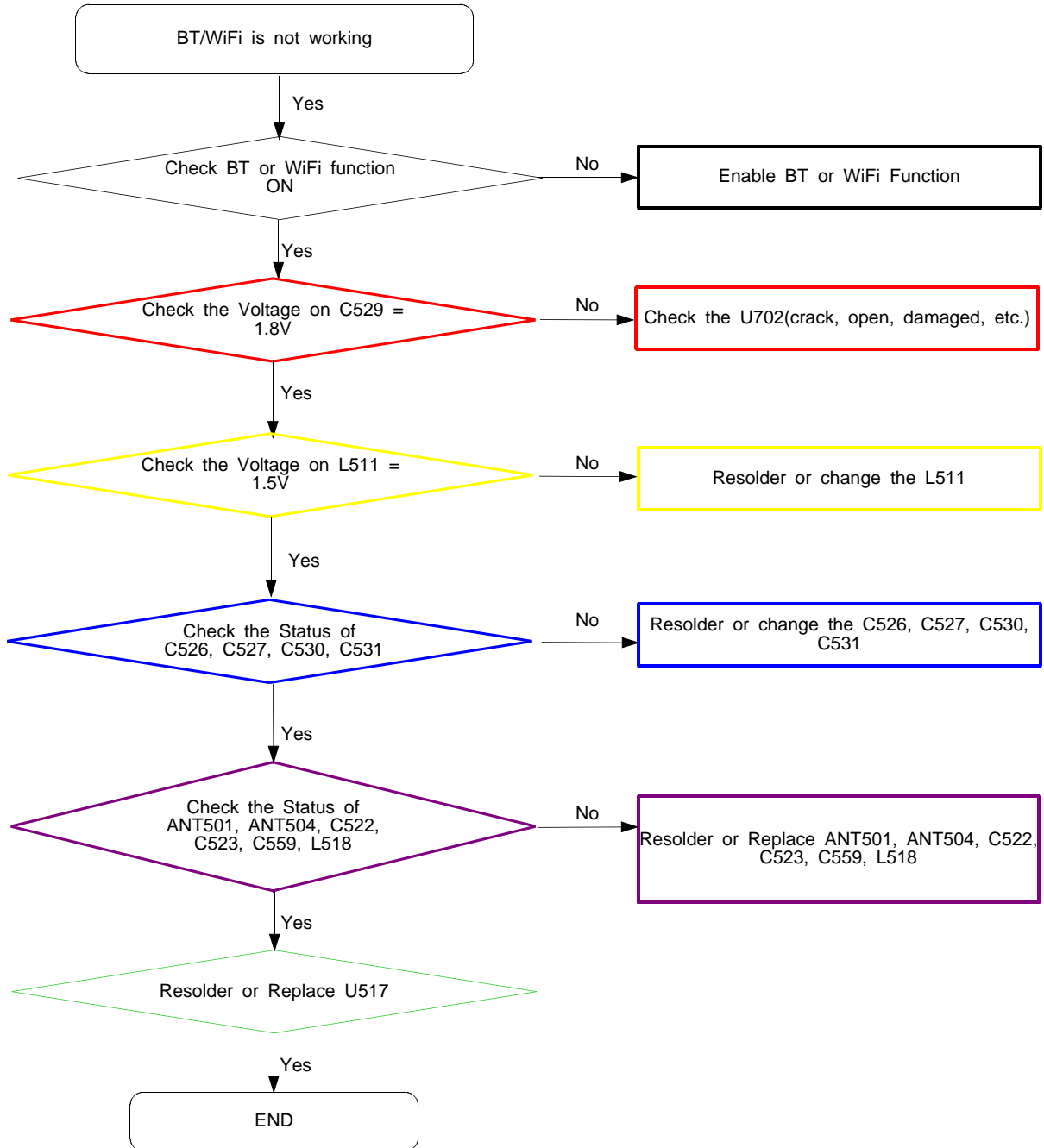


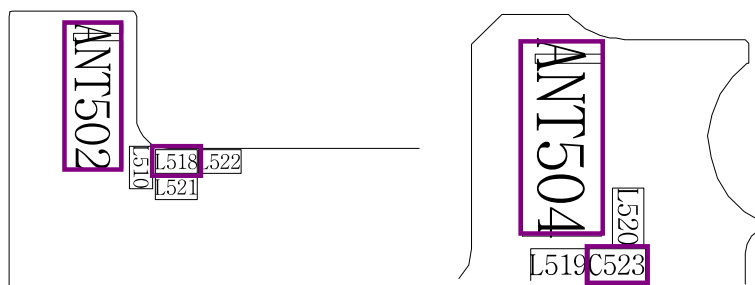
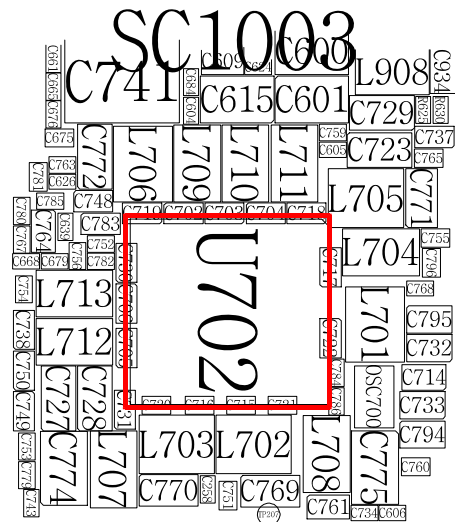
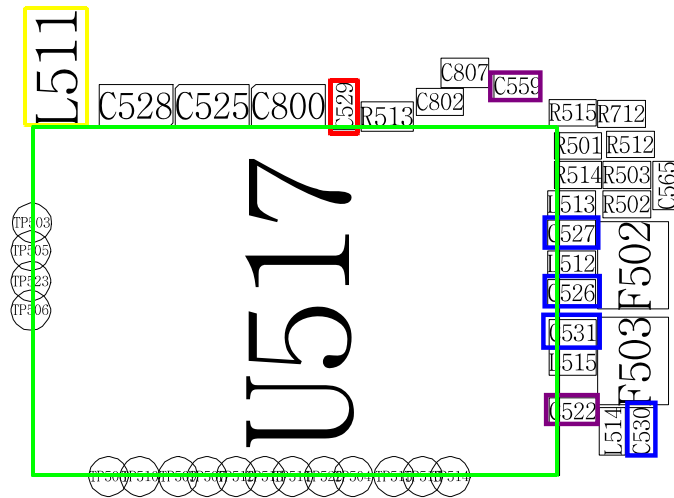
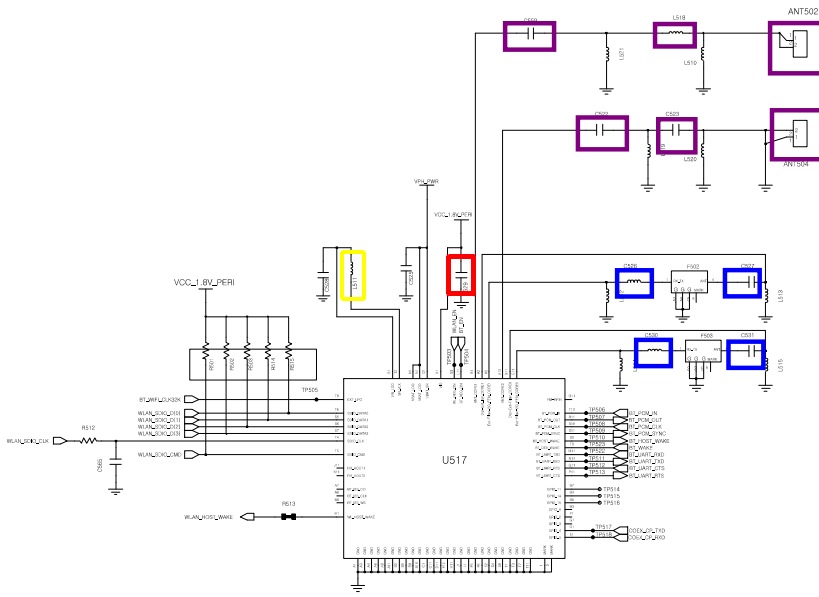




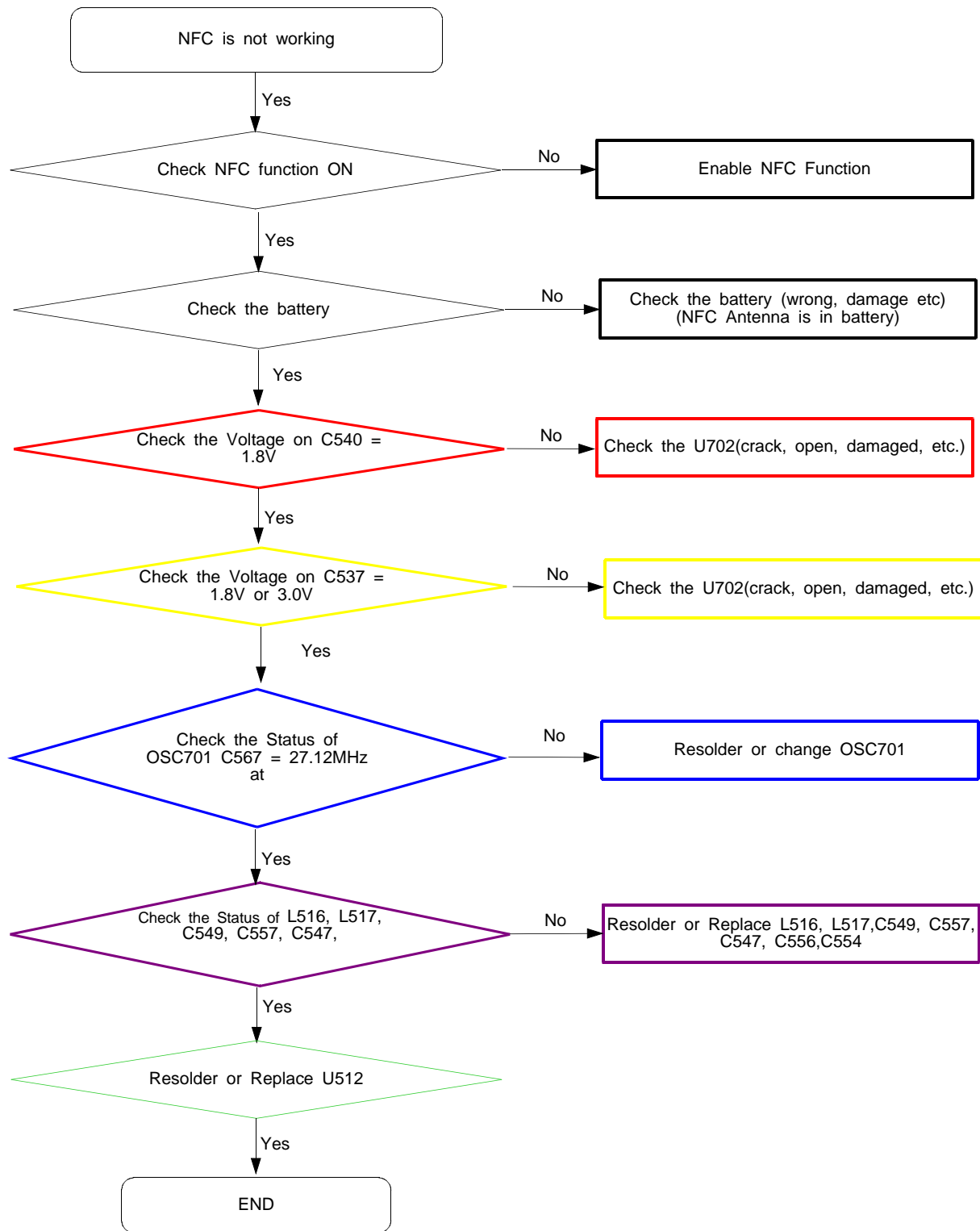


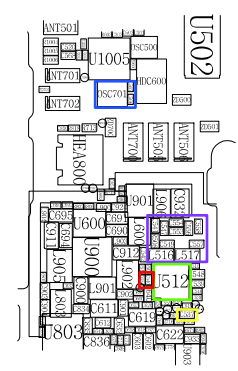
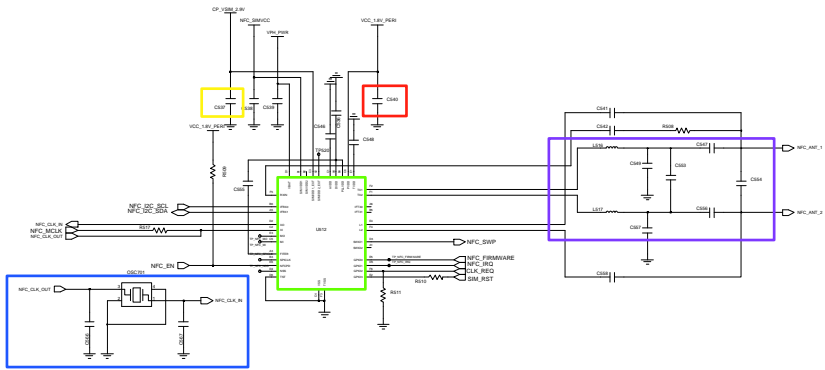
8-3-13. BT/WIFI



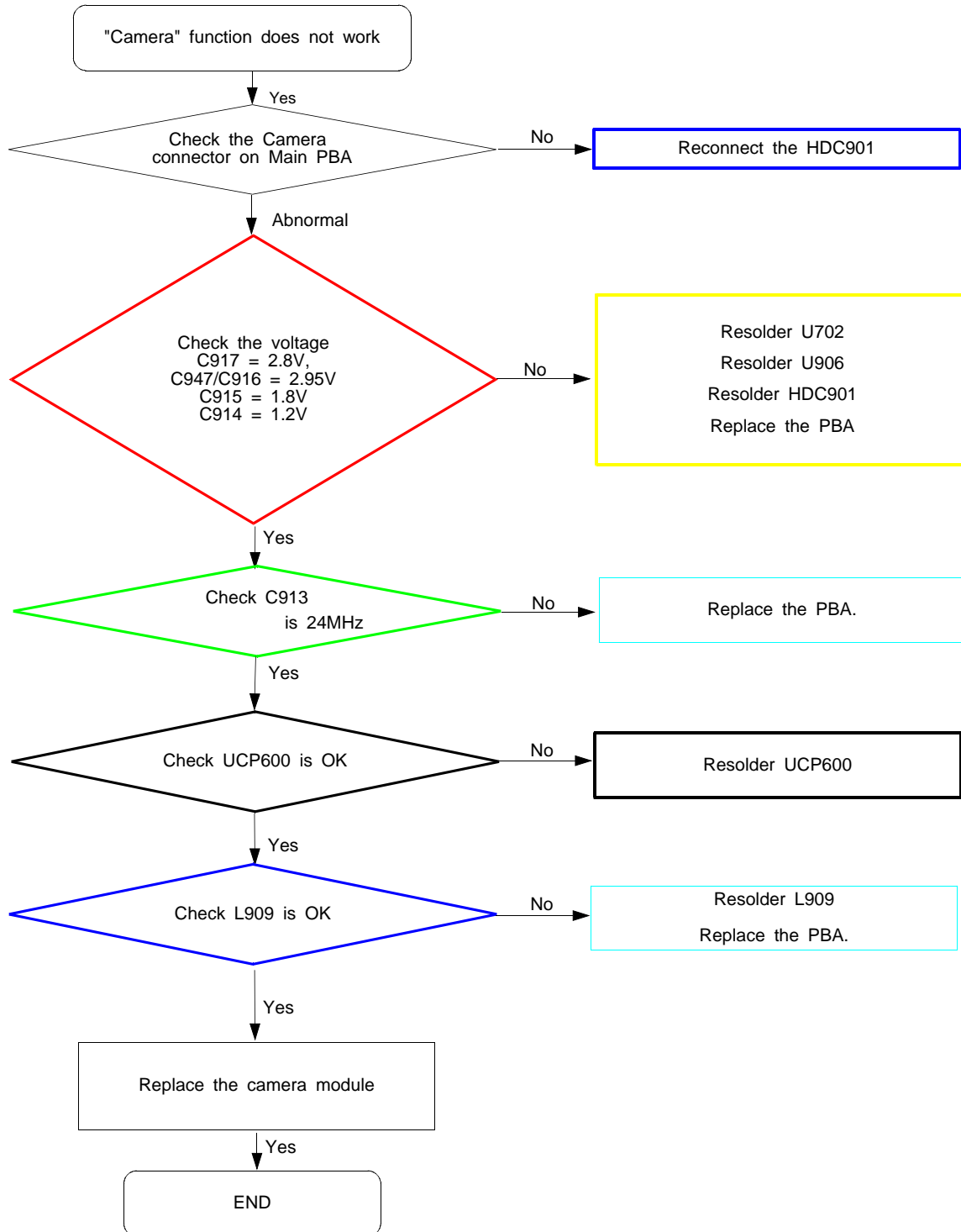


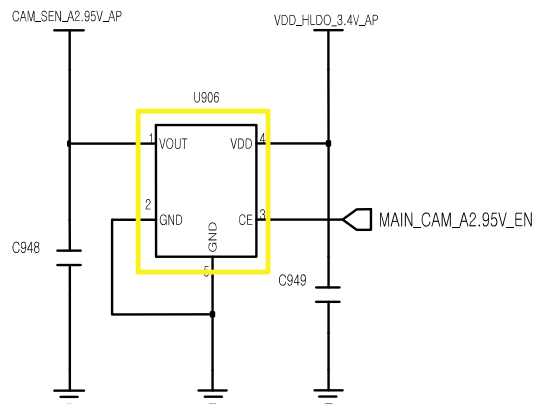
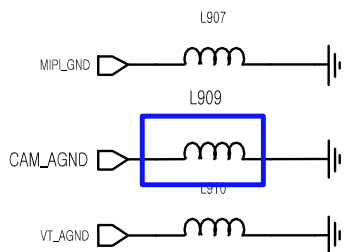
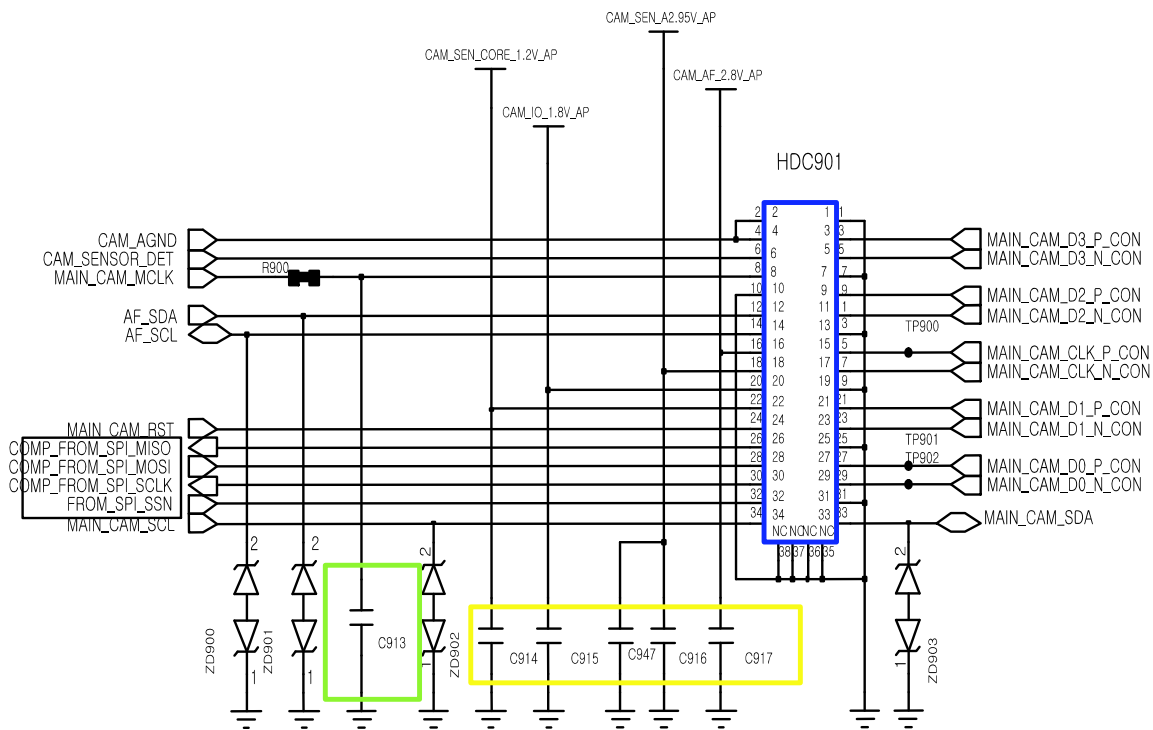
8-3-14. NFC

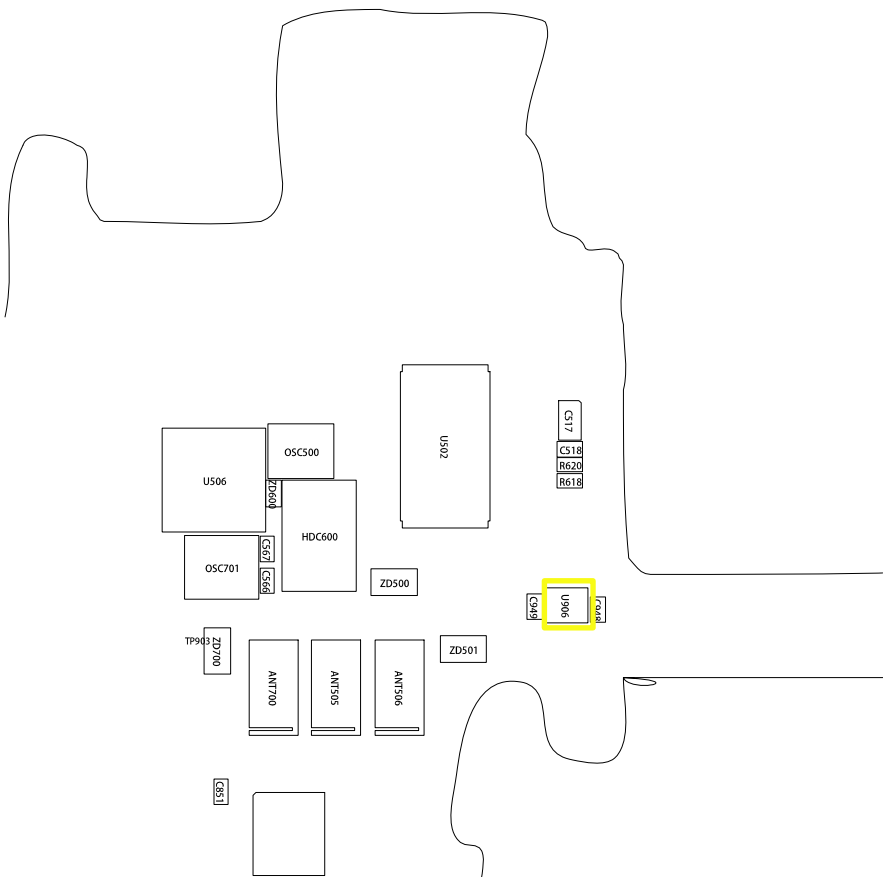
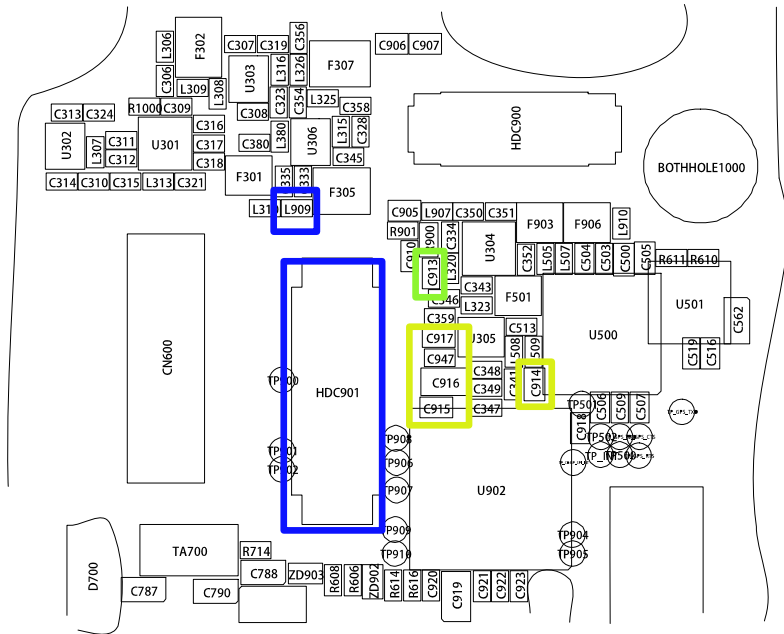




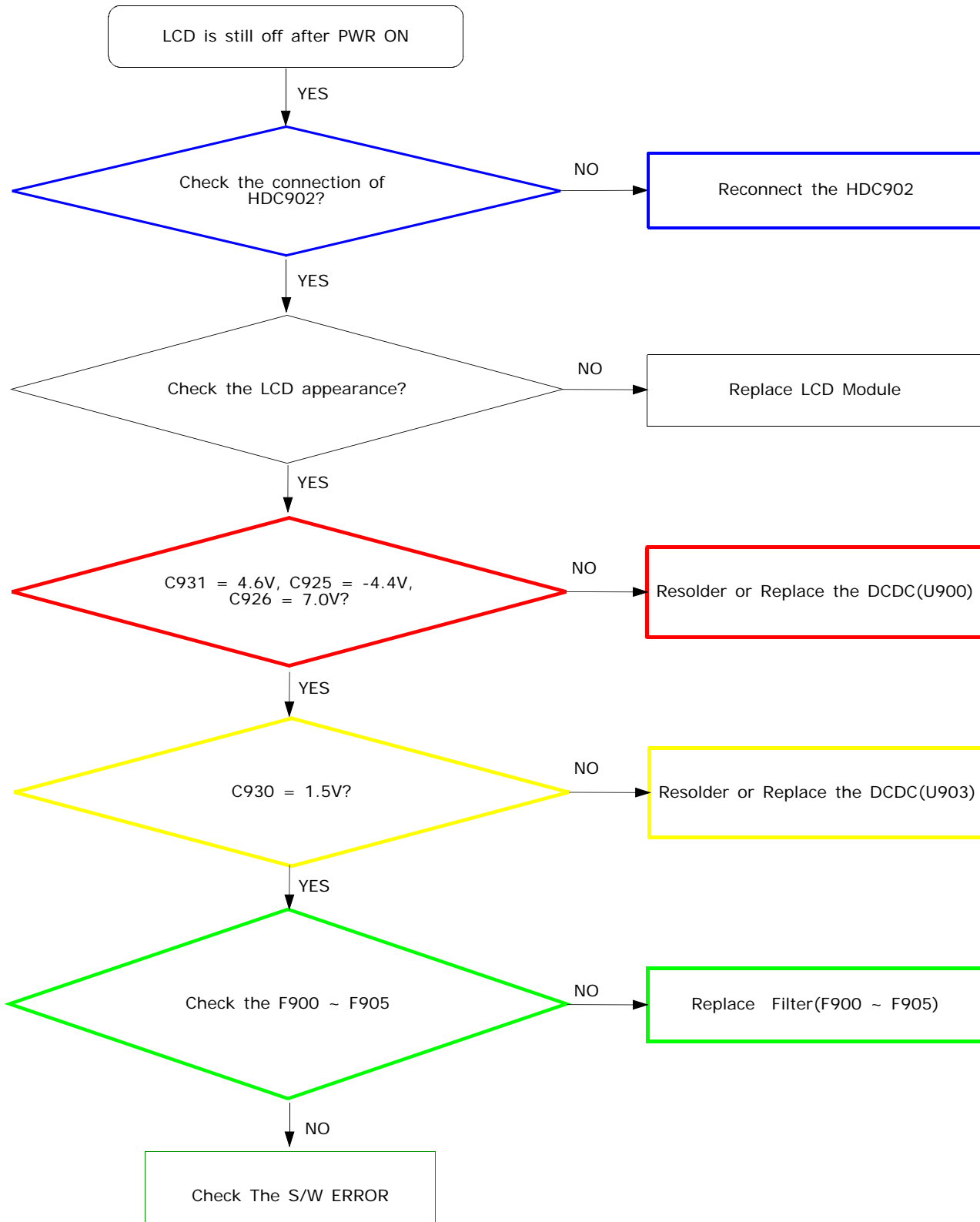
8-3-15. 12M CAM



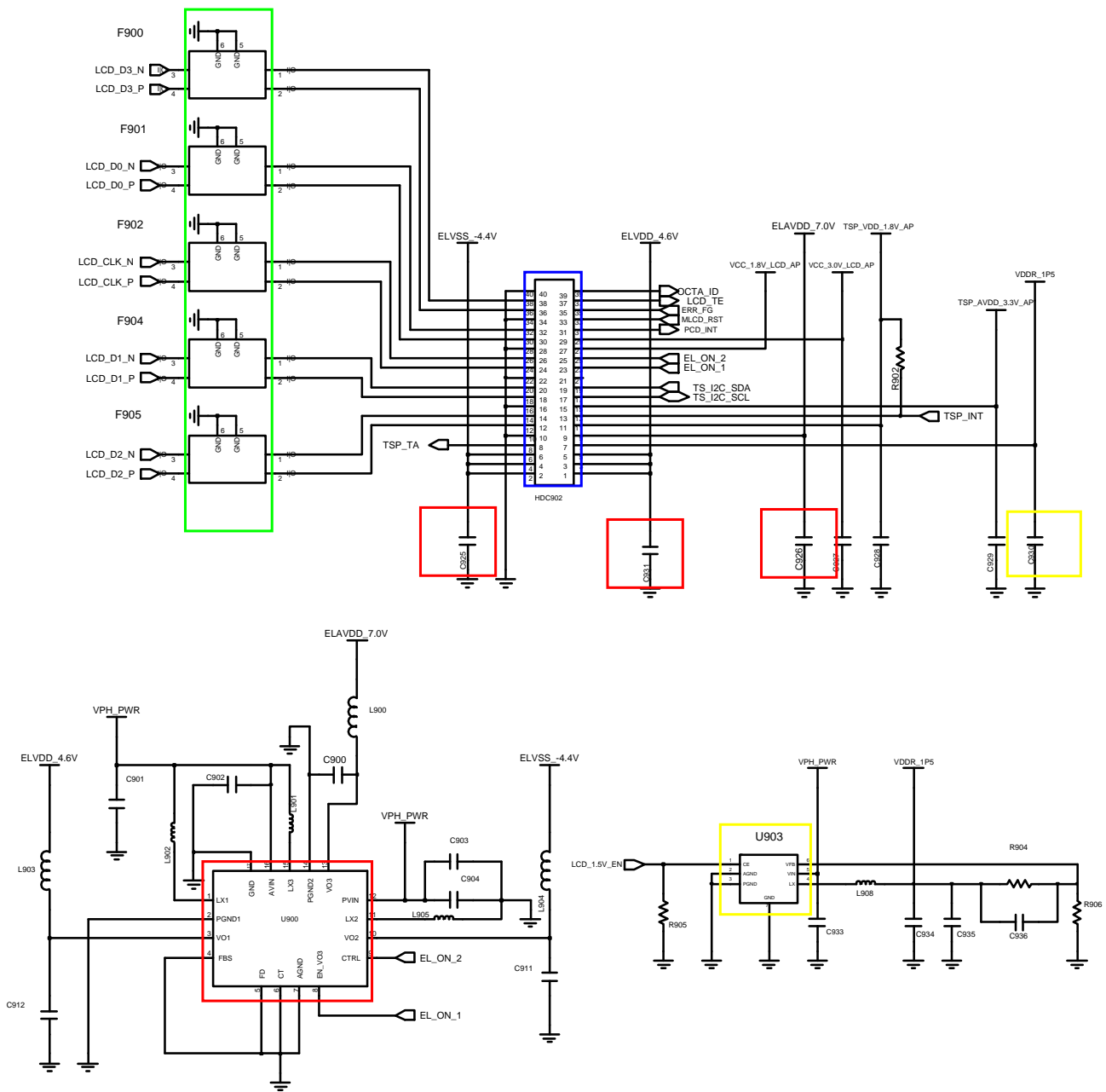


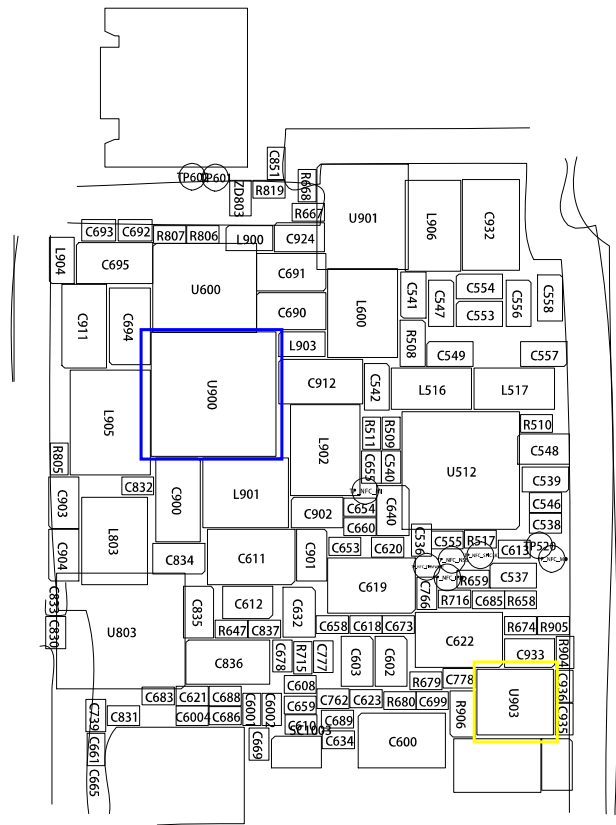
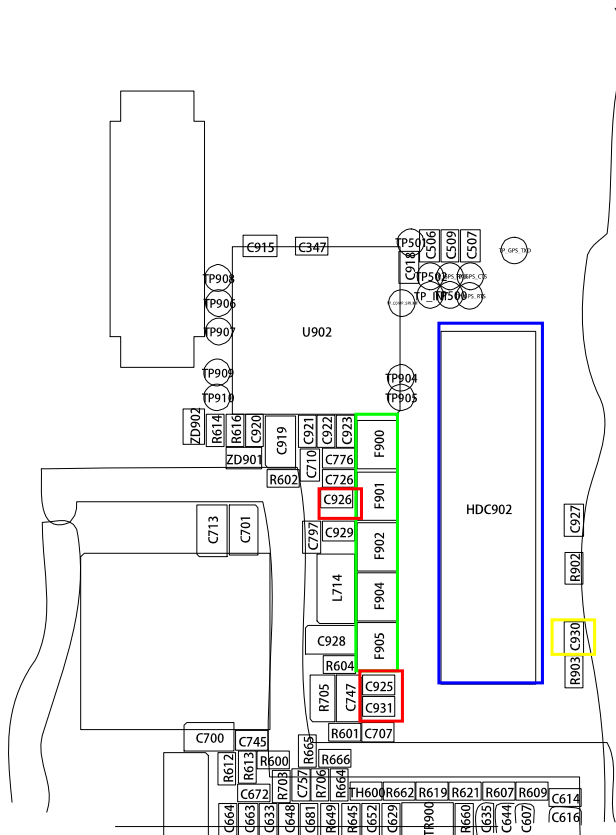


8-3-16. LCD

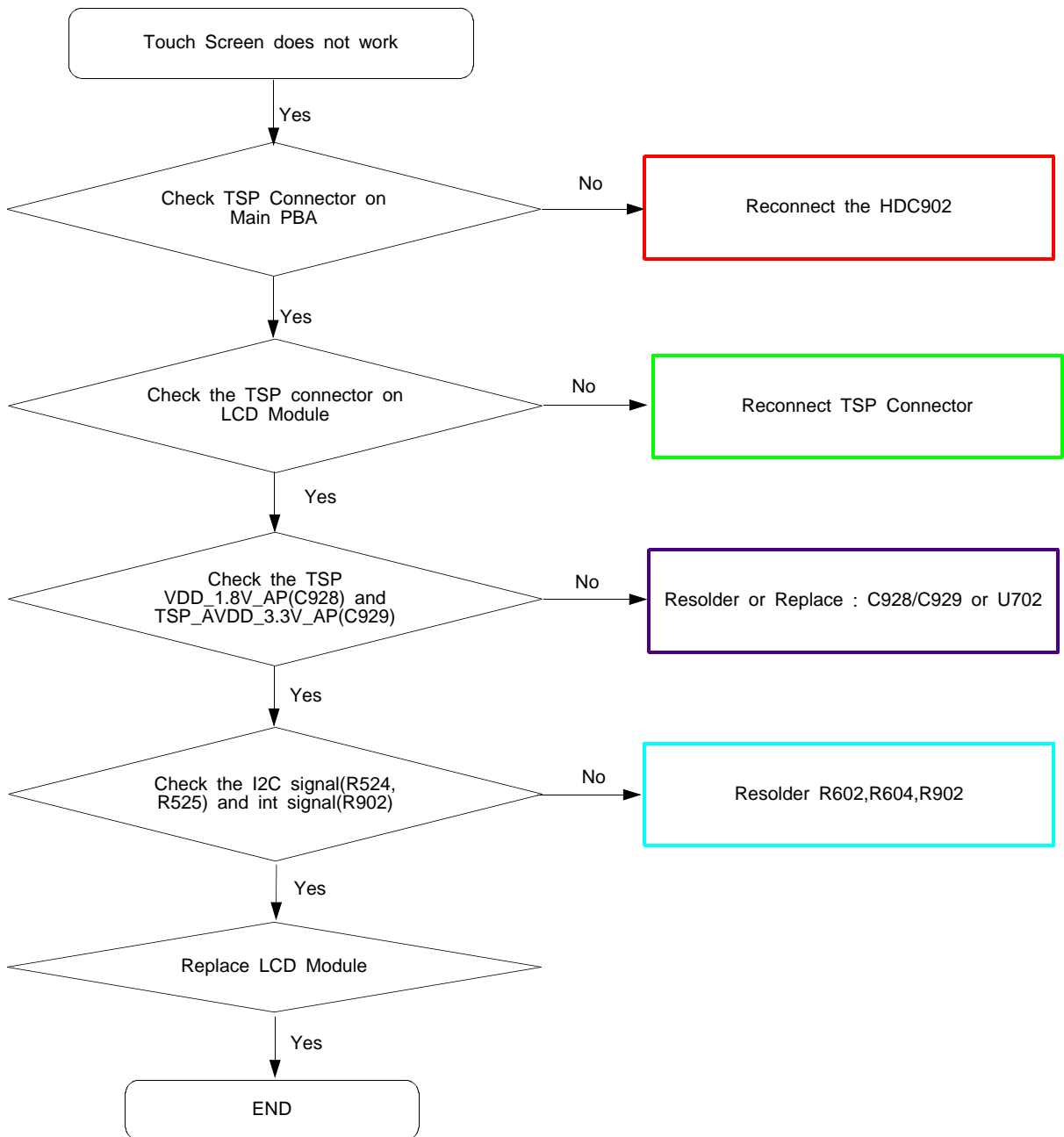


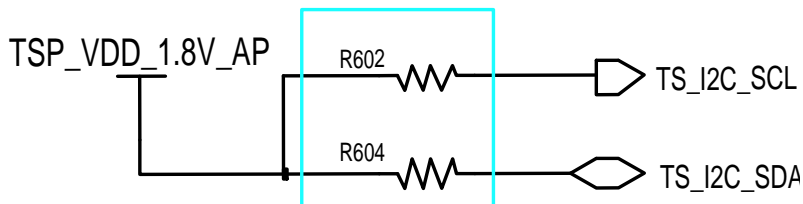
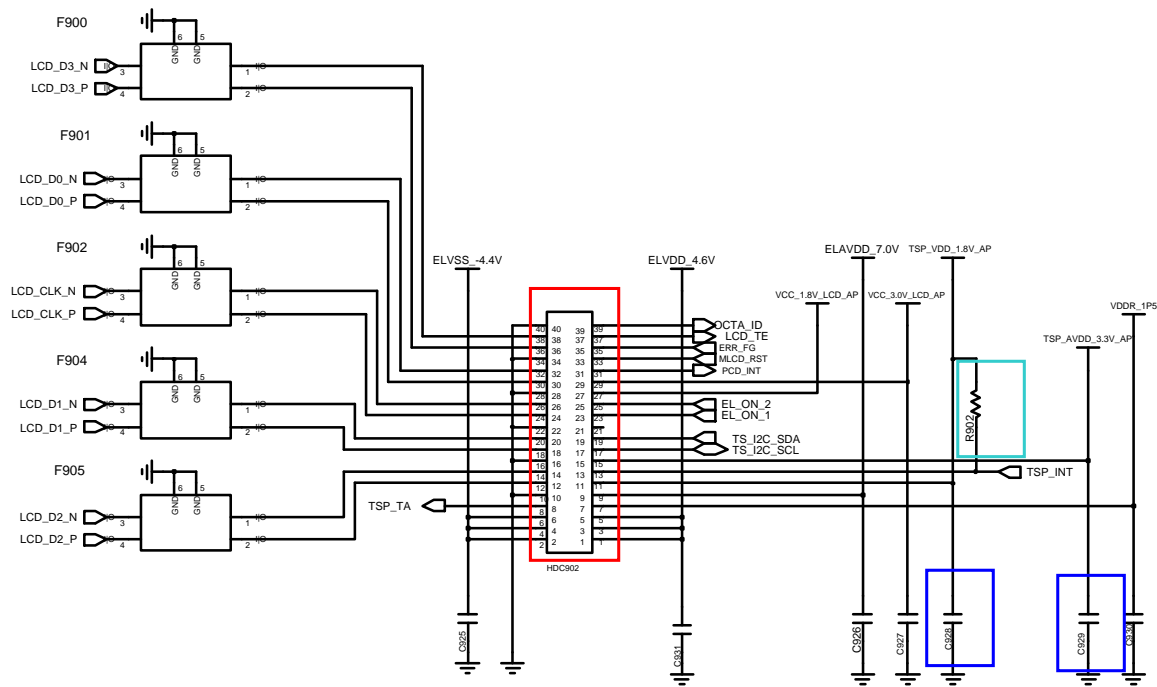


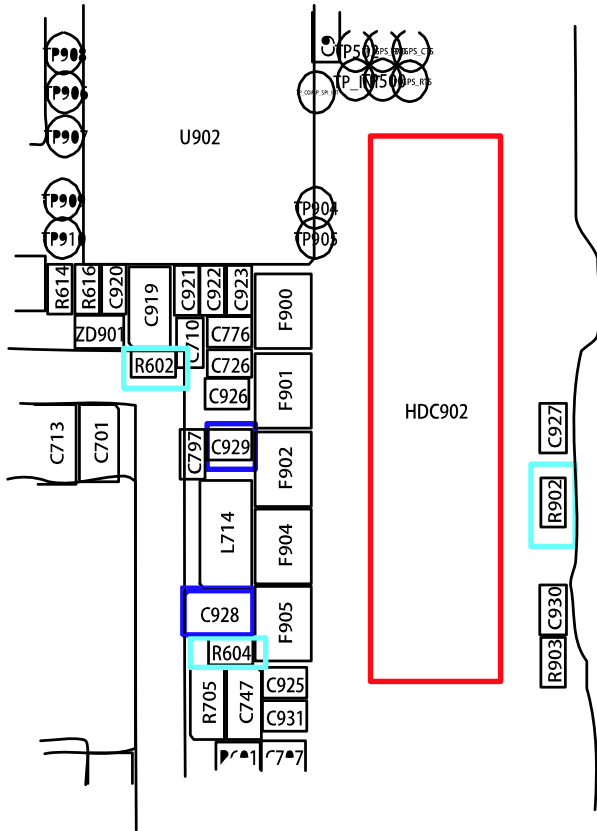




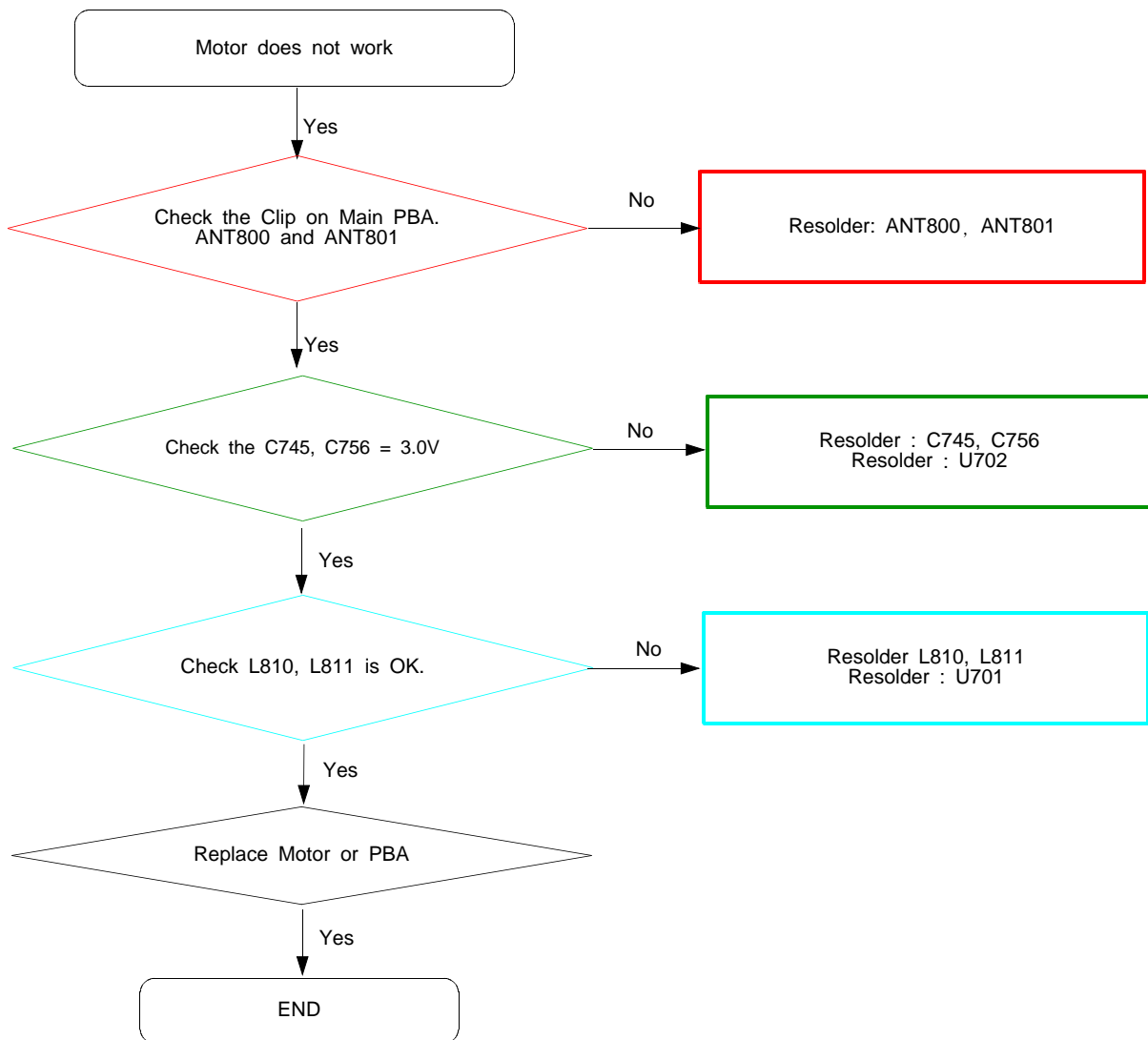
8-3-17. TSP

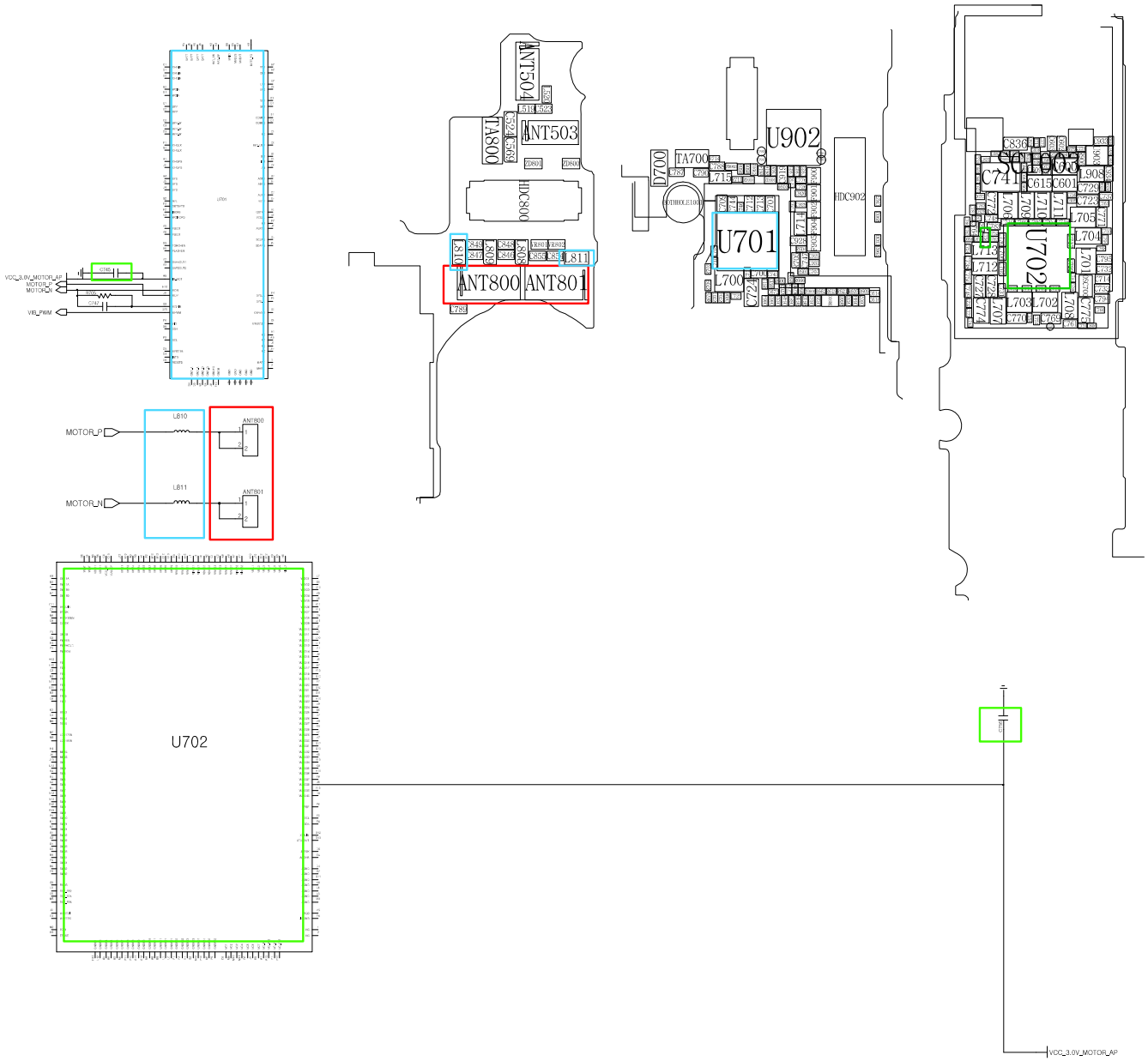




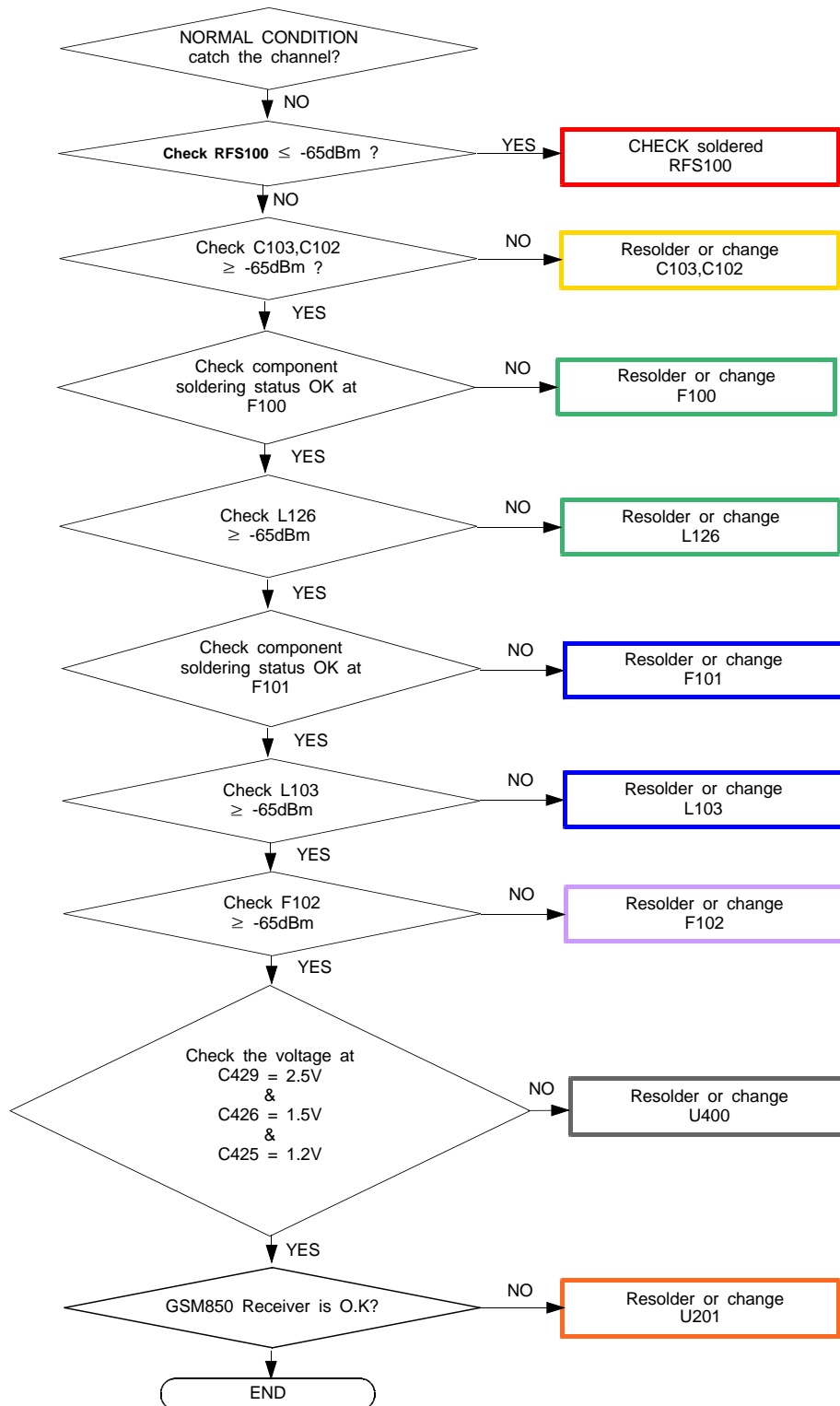


8-3-18. Motor

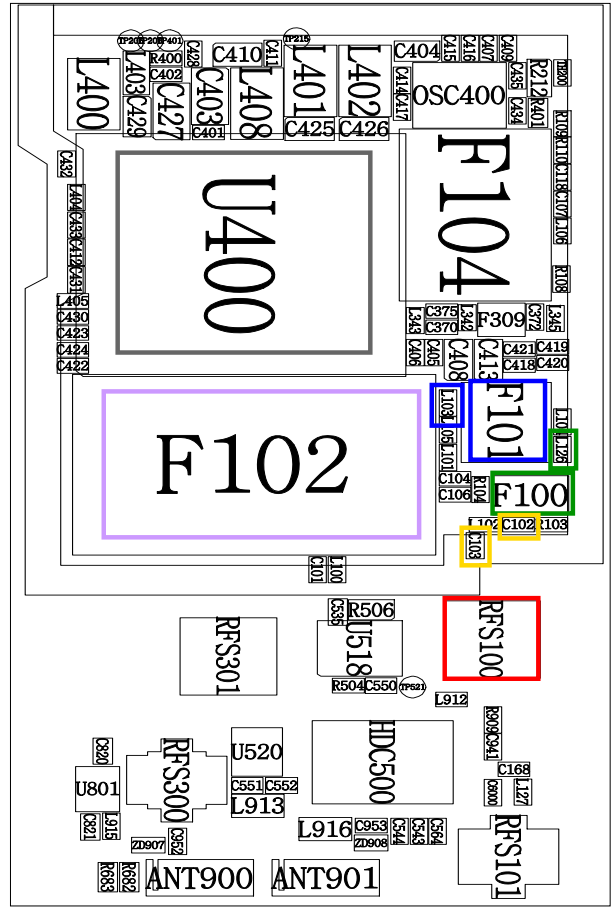
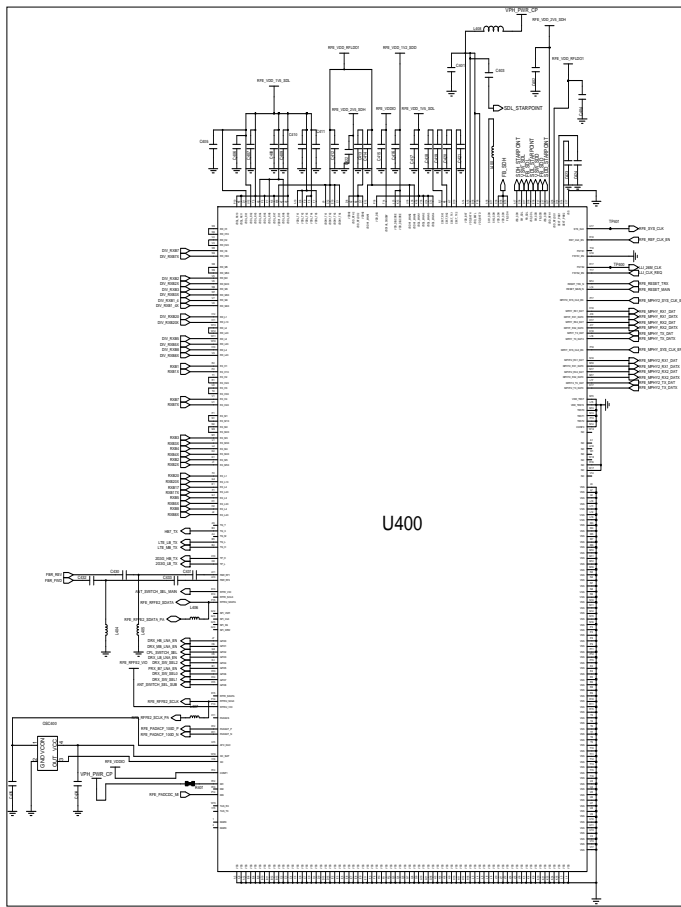
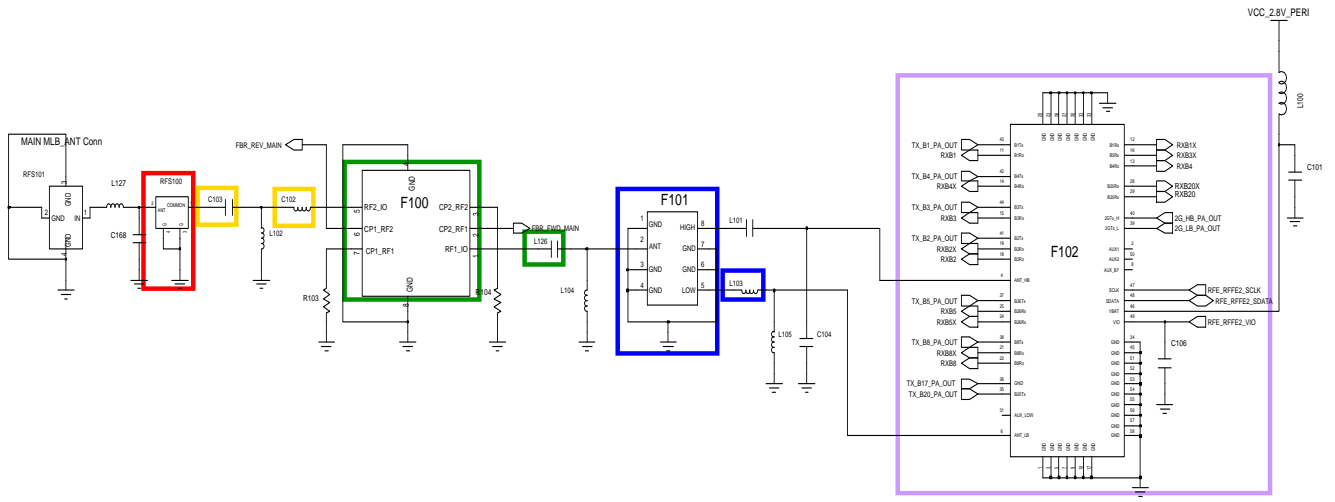


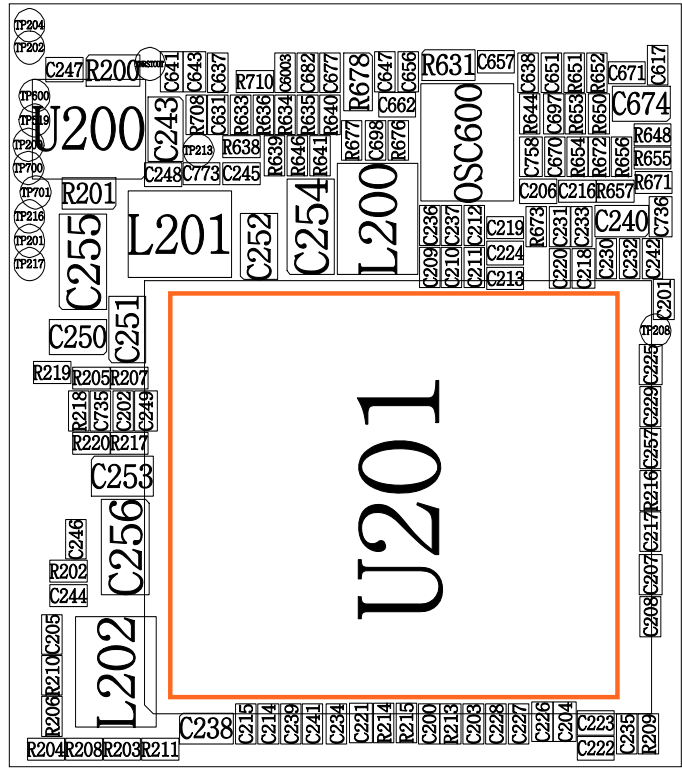
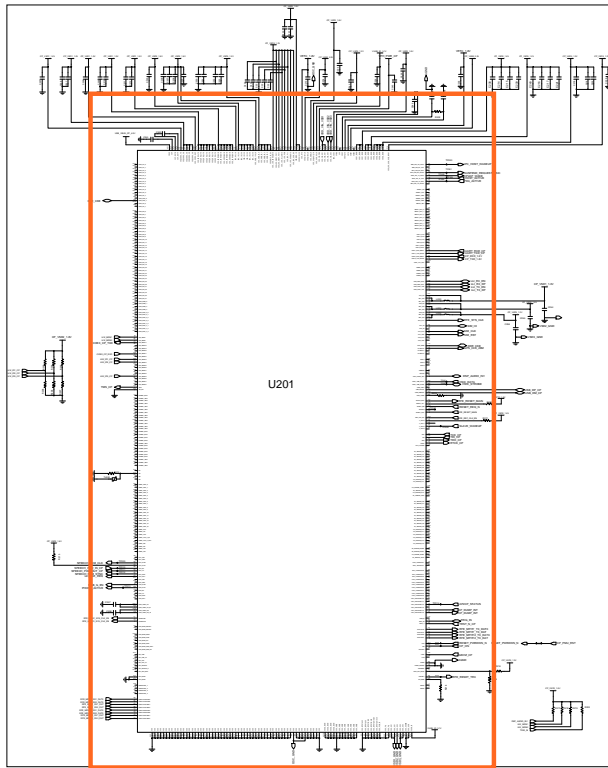
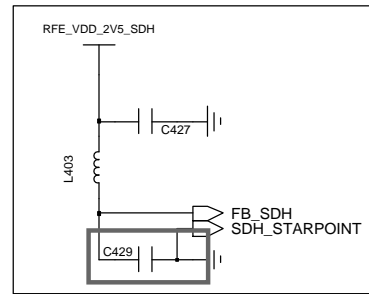
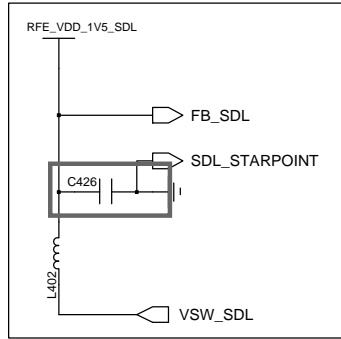
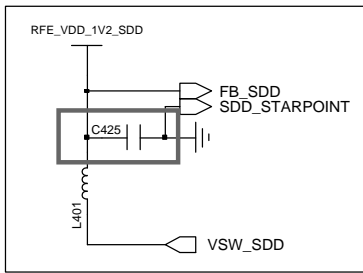


8-3-19. GSM850 RX

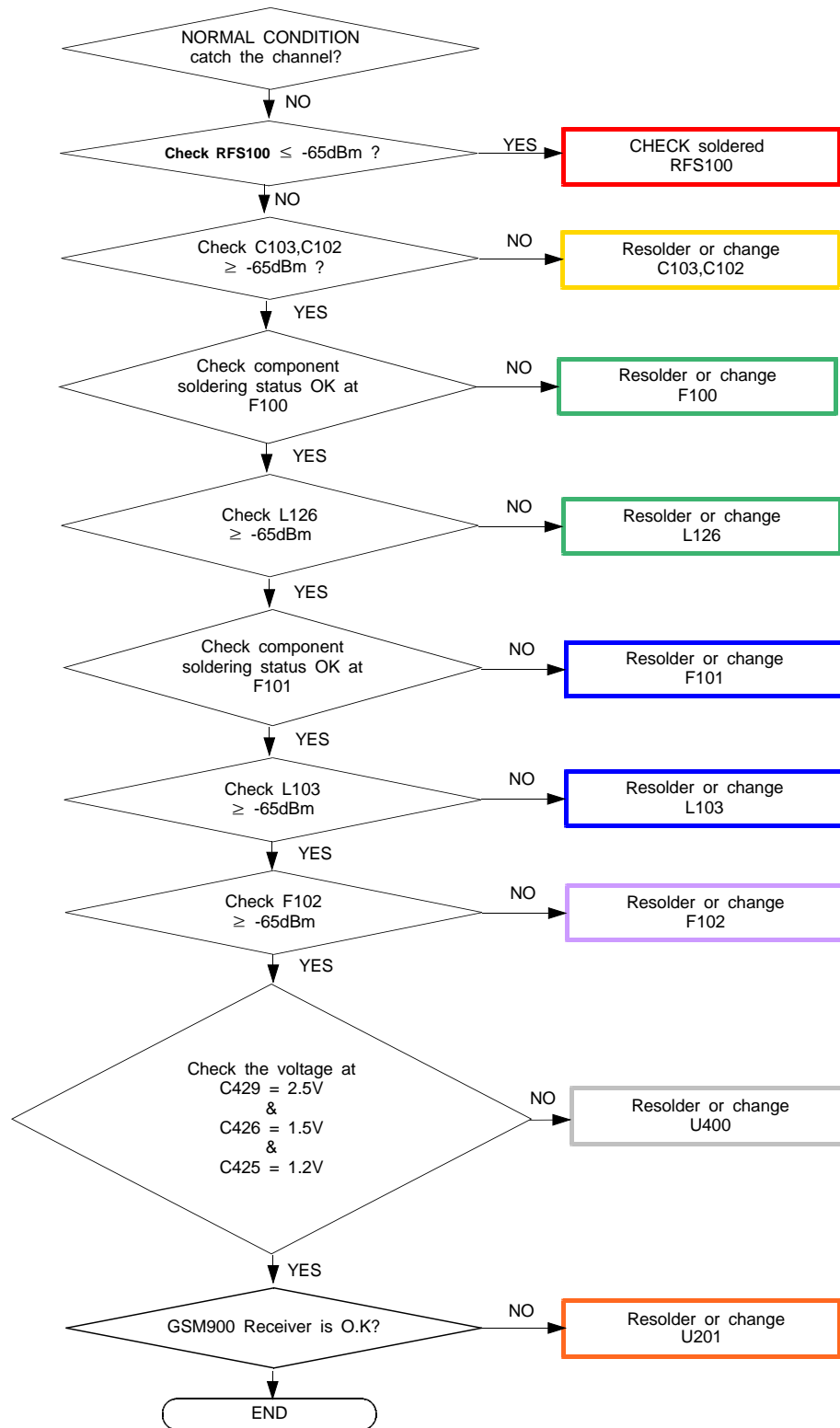


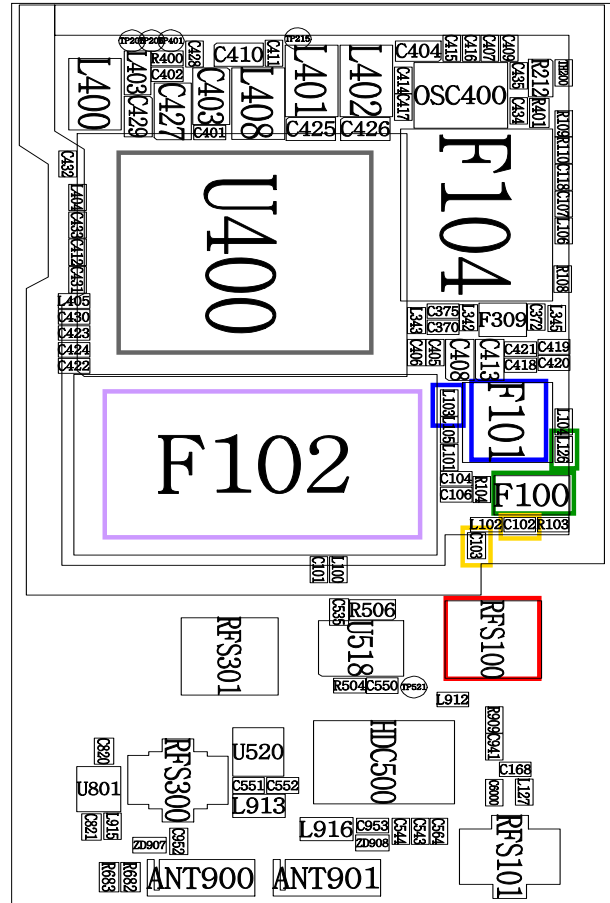
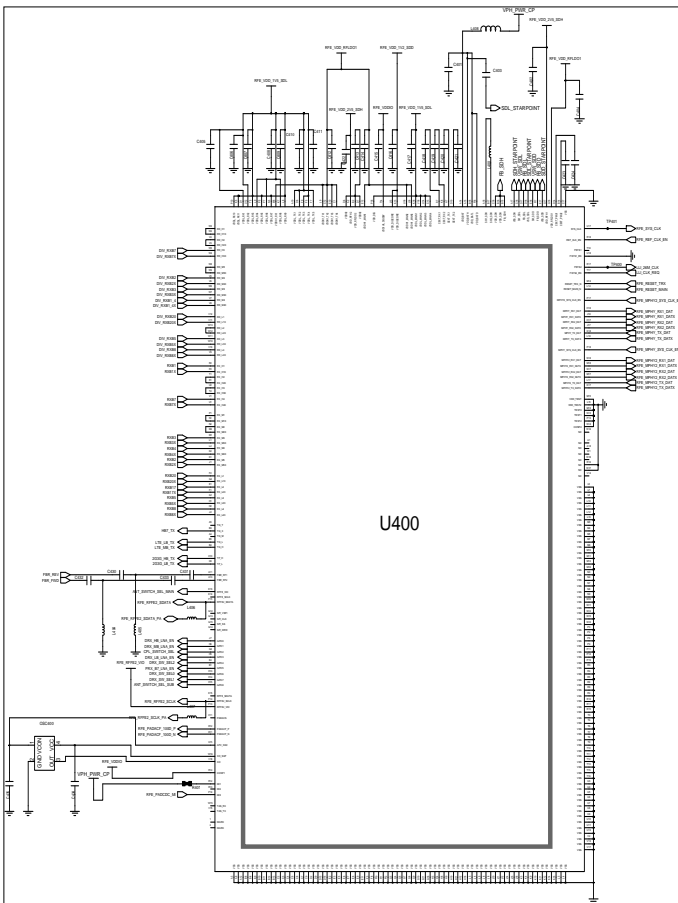
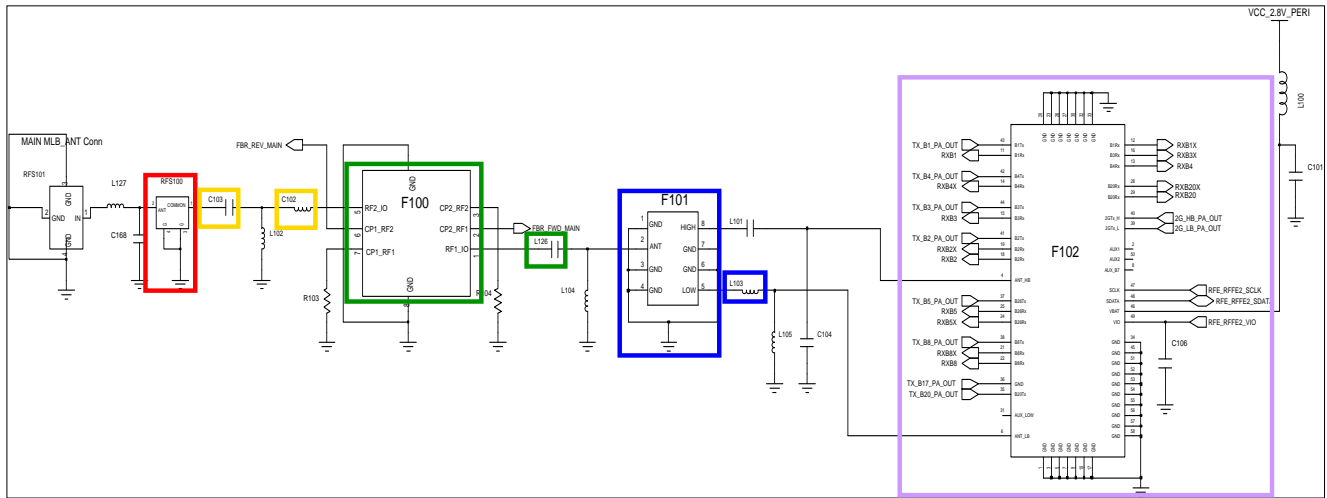


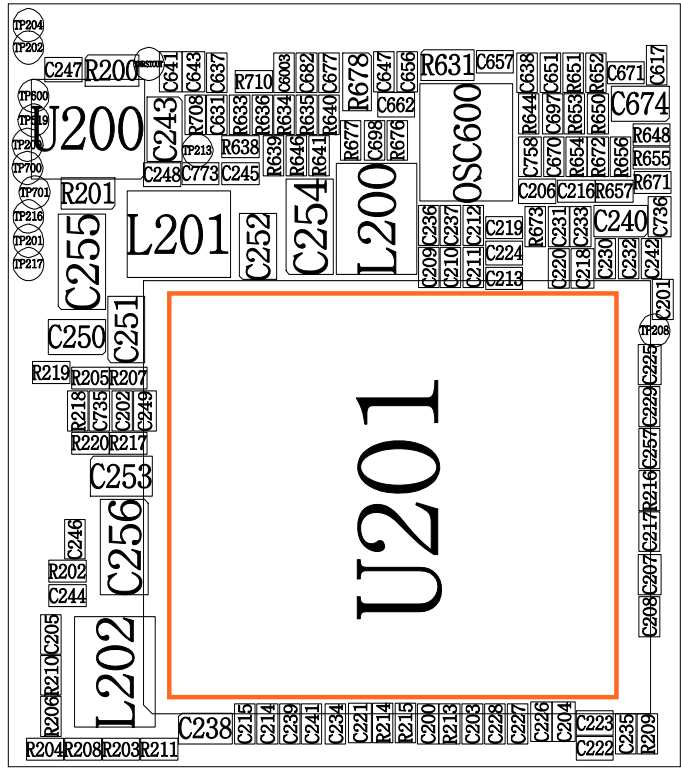
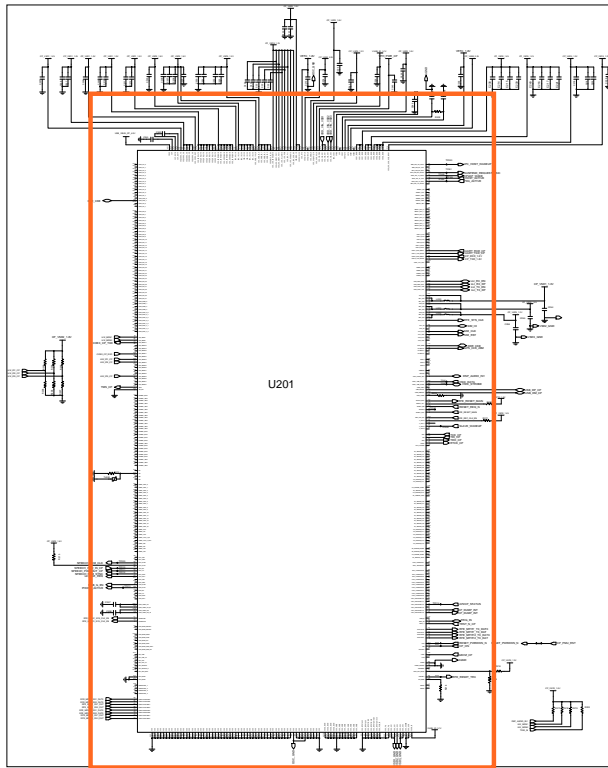
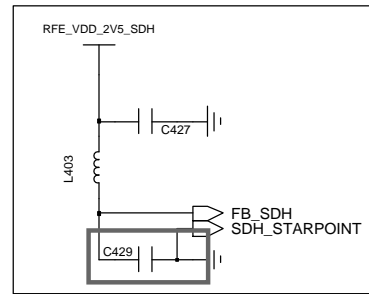
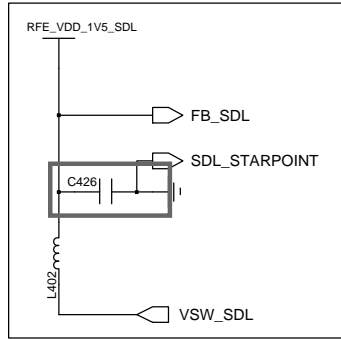
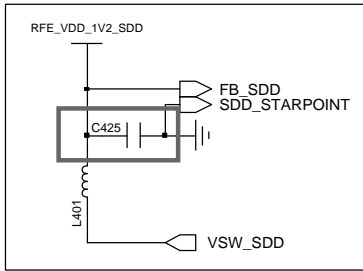




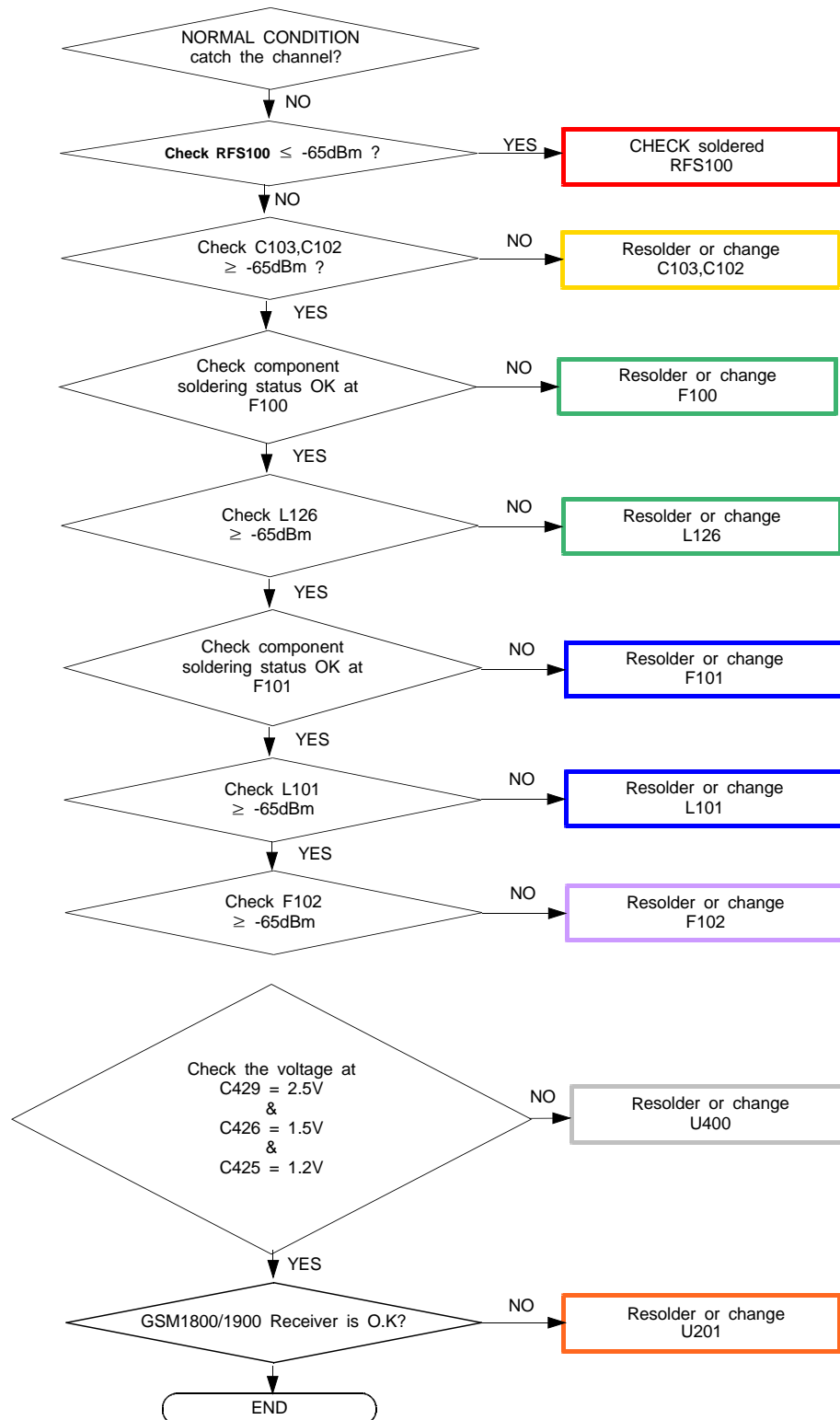
8-3-20. GSM900 RX

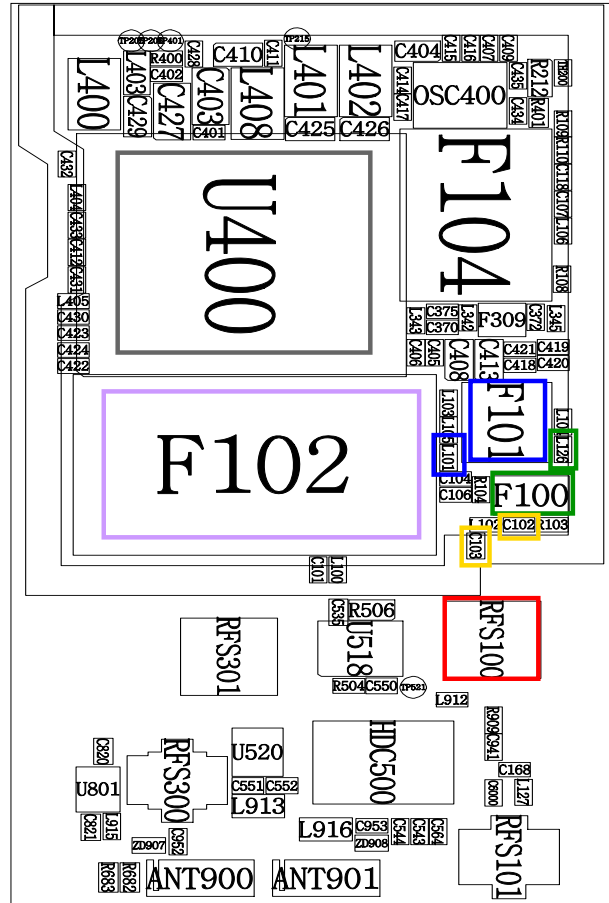
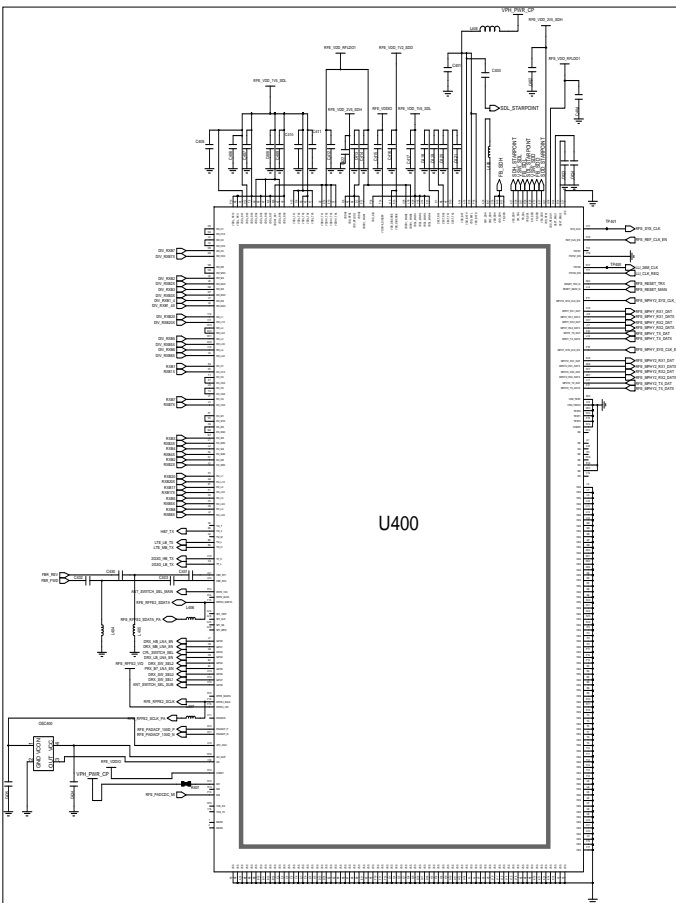
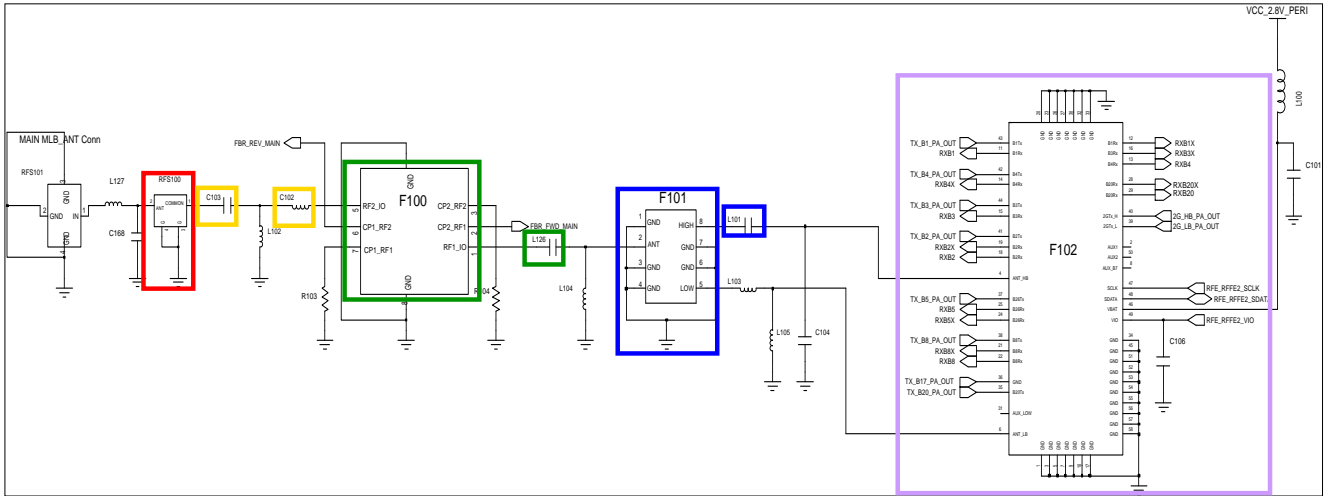


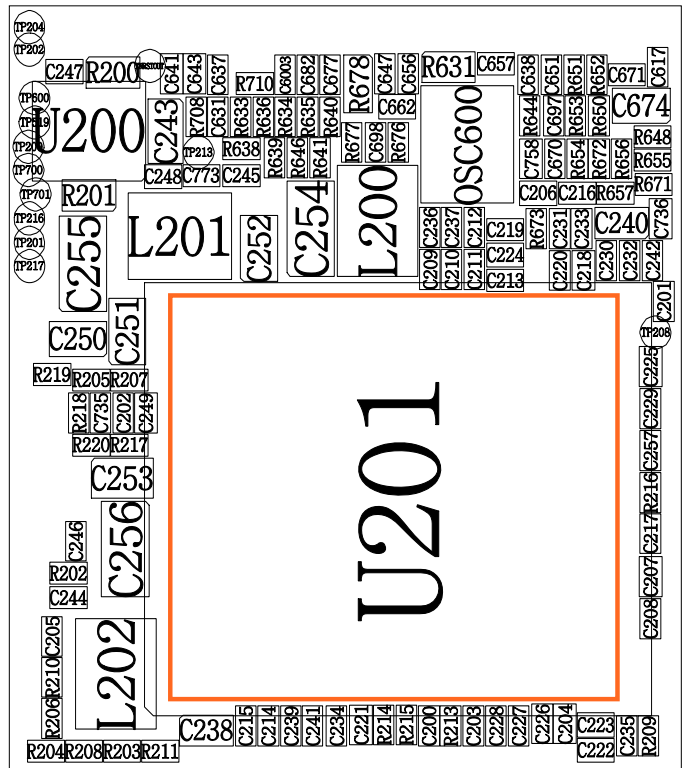
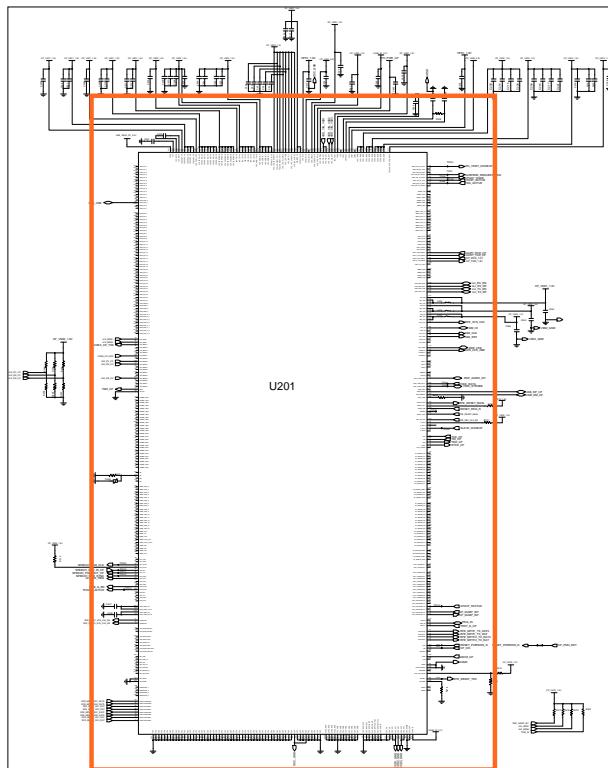
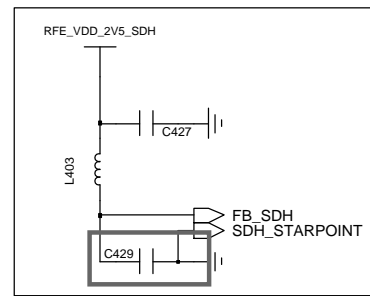
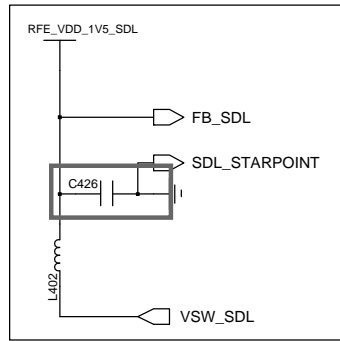
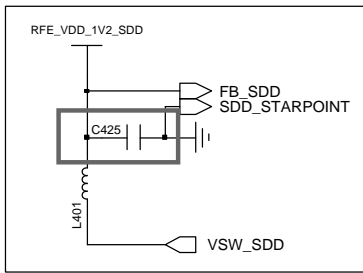




8-3-21. GSM1800/1900 RX



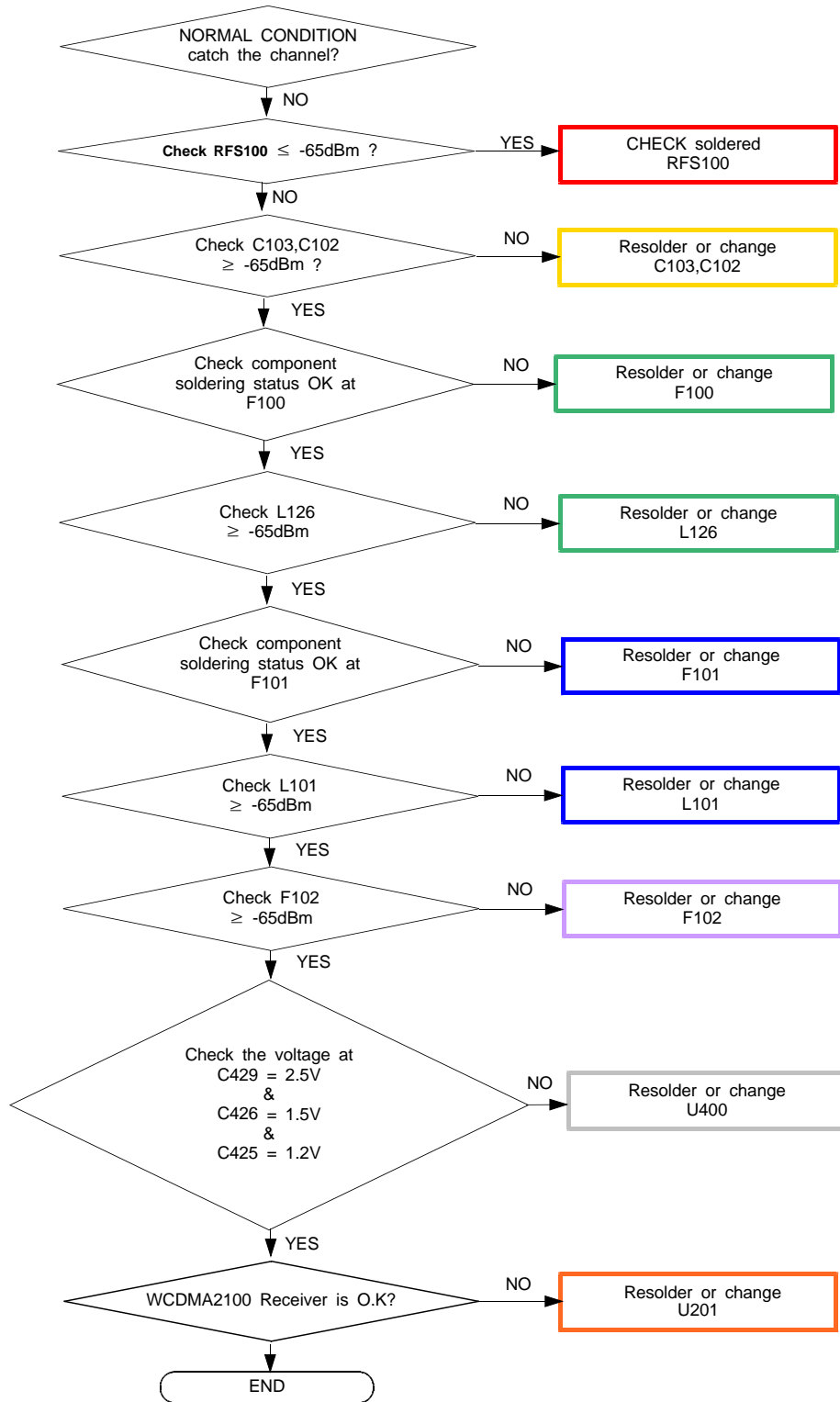


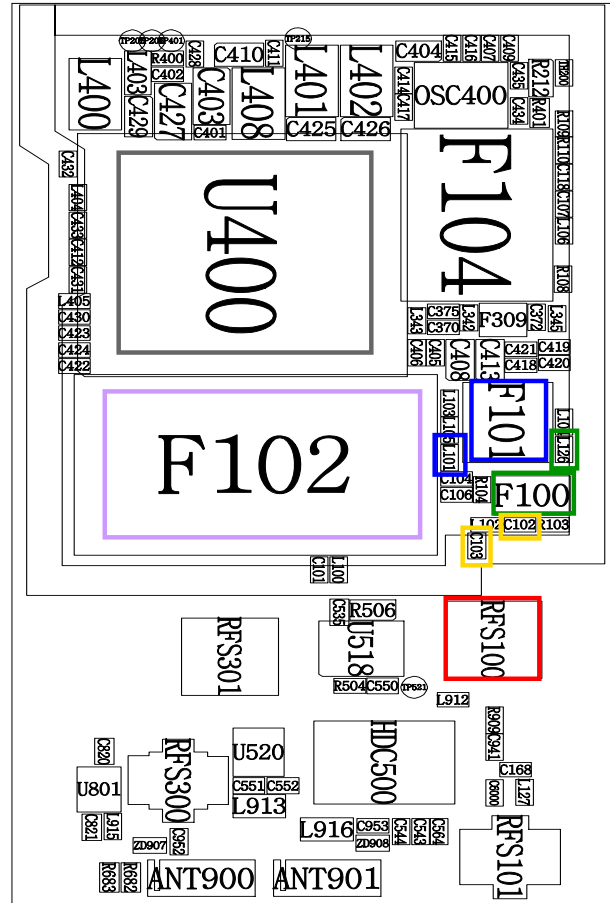
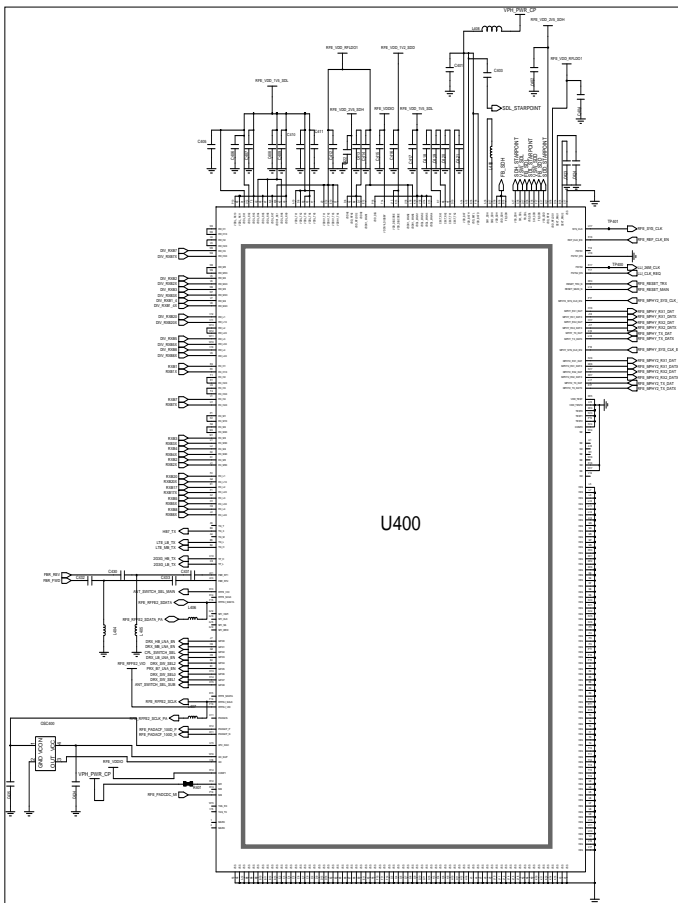
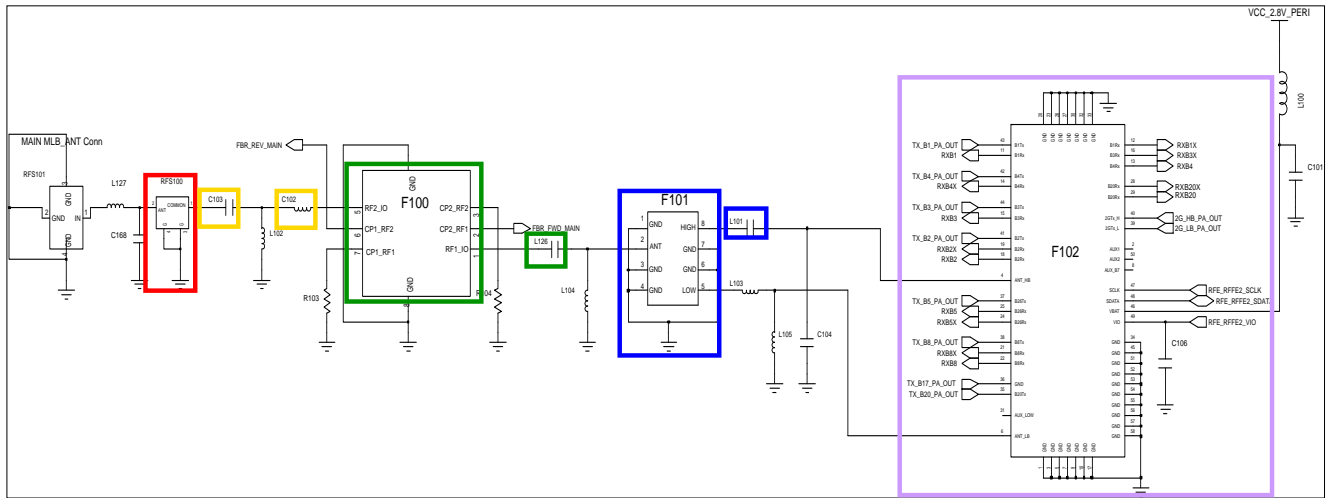




8-3-22. WCDMA2100 RX / LTE BAND1 RX

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

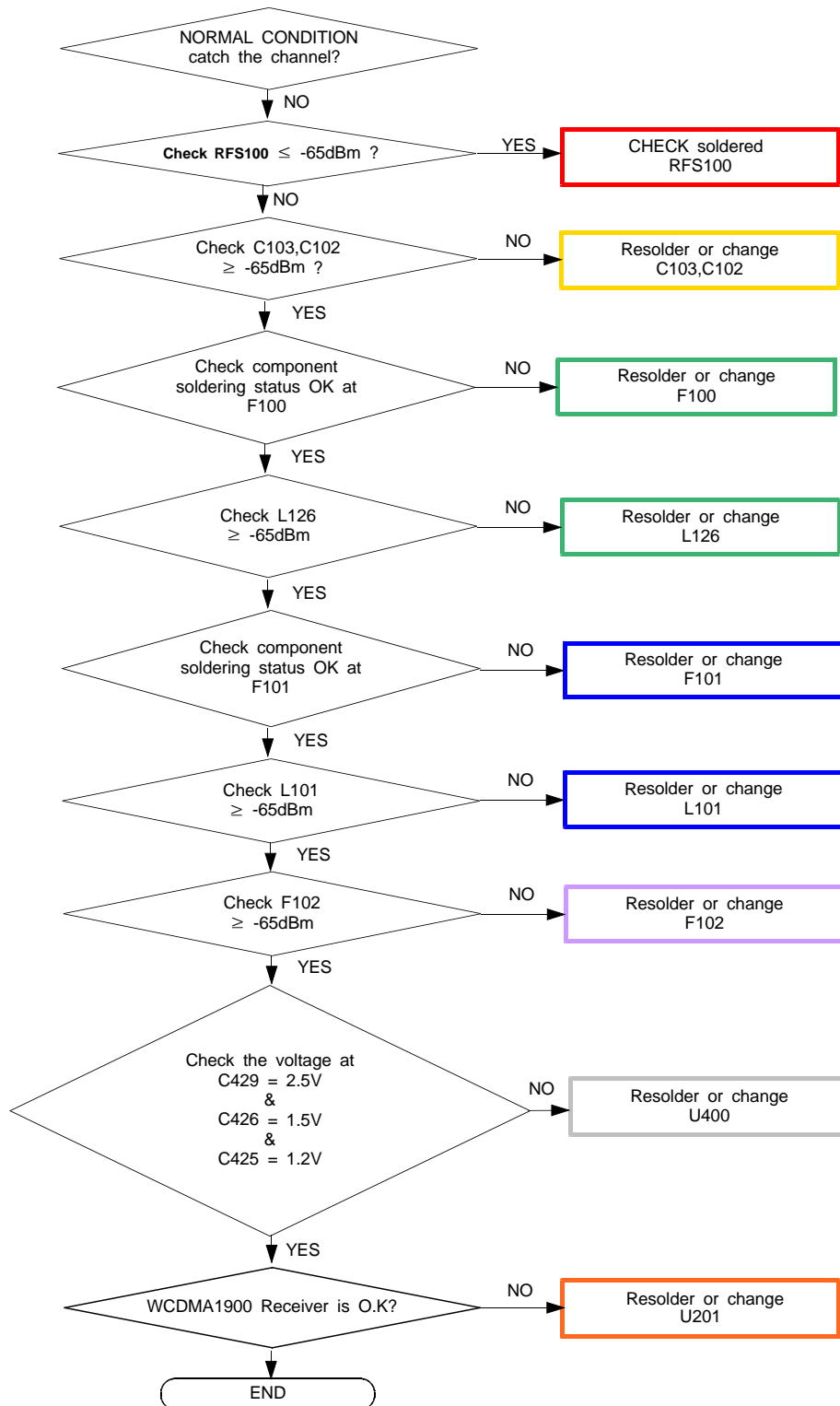


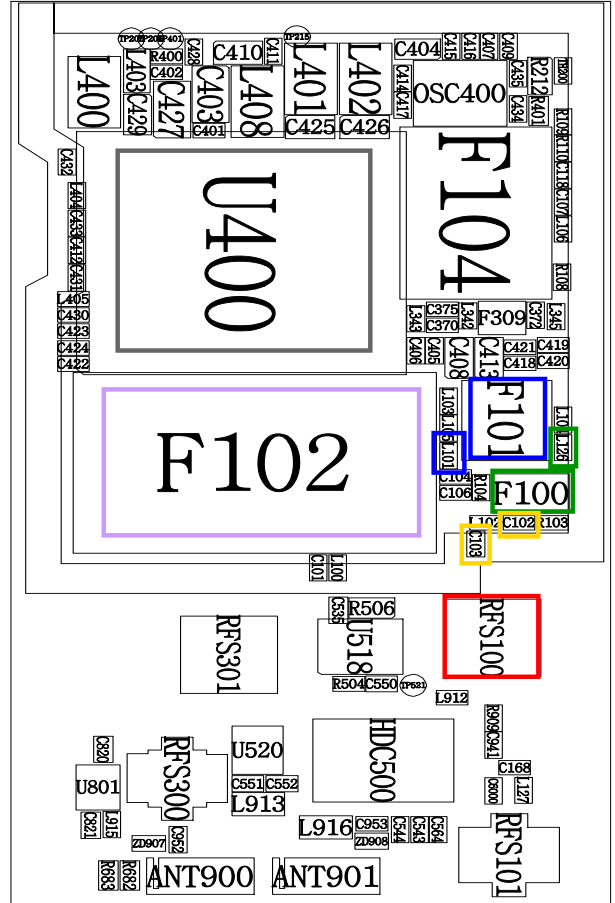
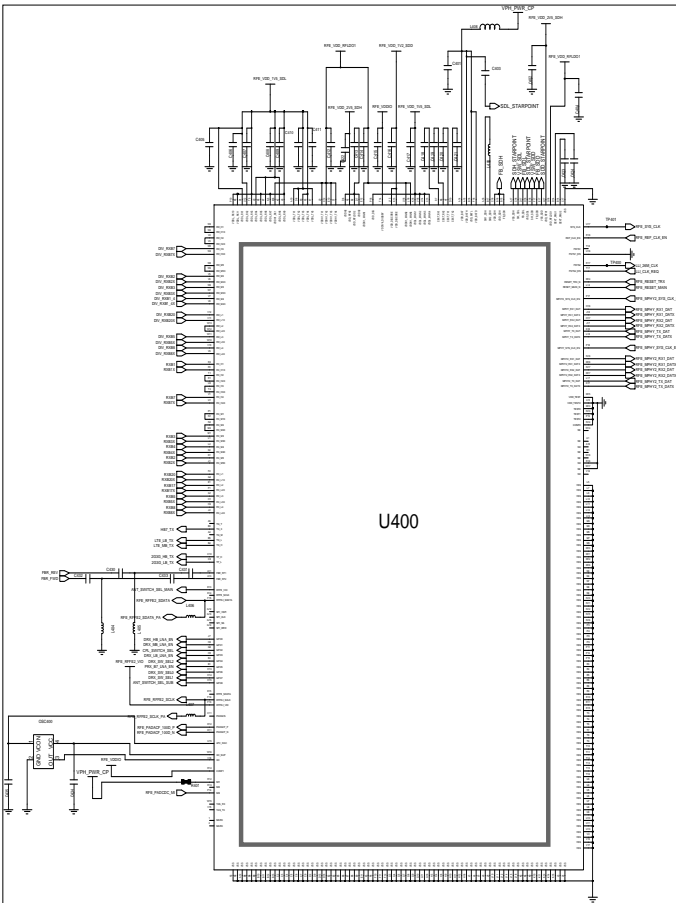
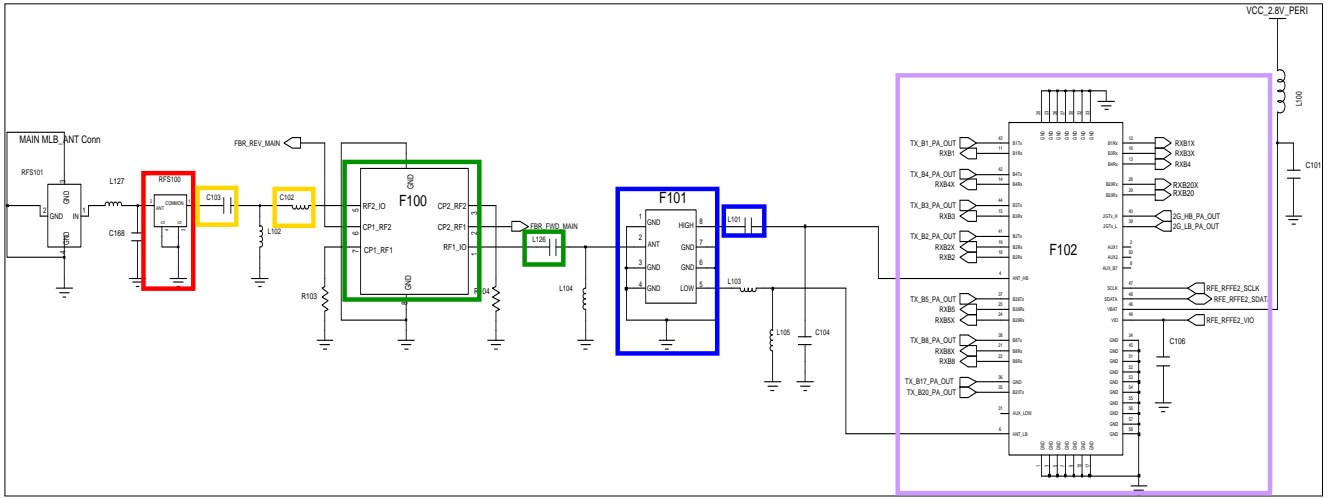


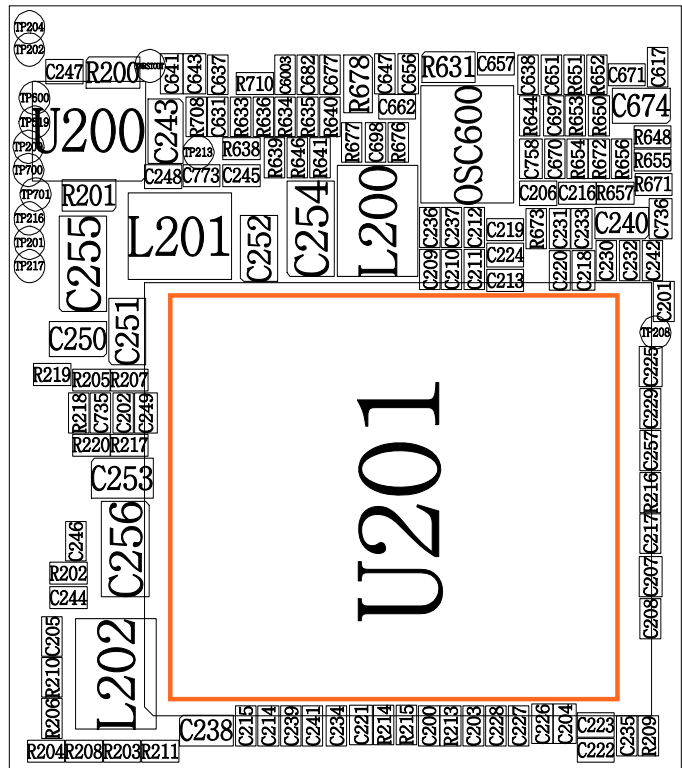
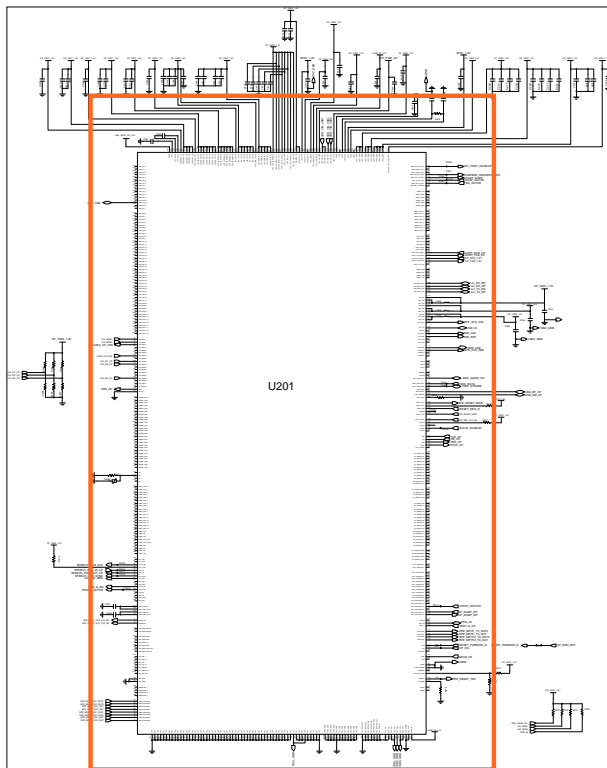
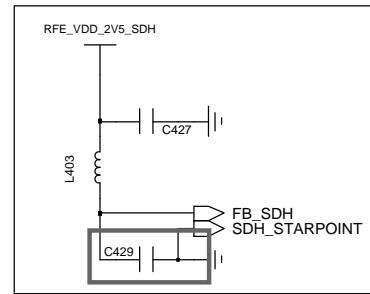
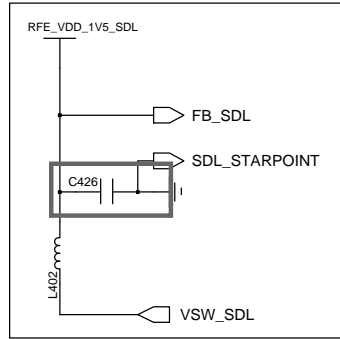
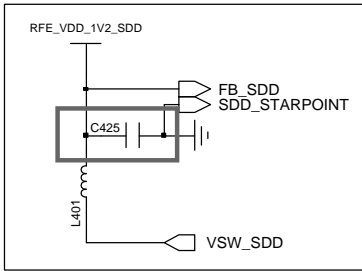


8-3-23. WCDMA1900 RX / LTE BAND2 RX

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

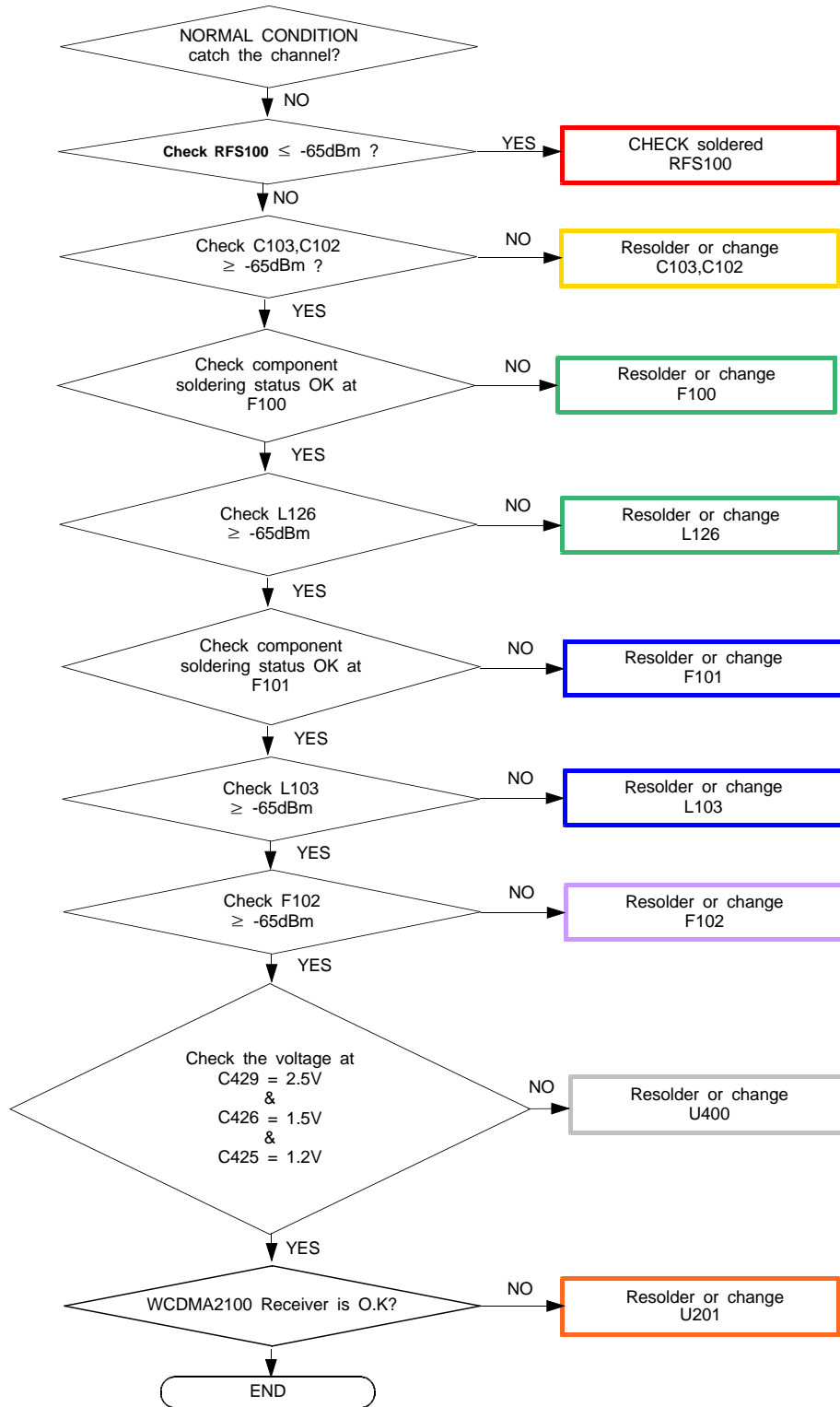


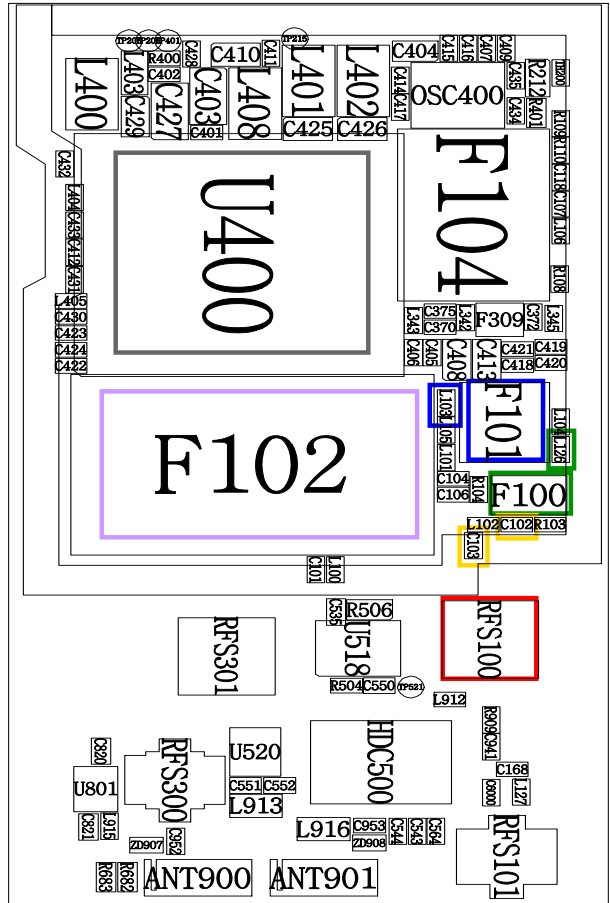
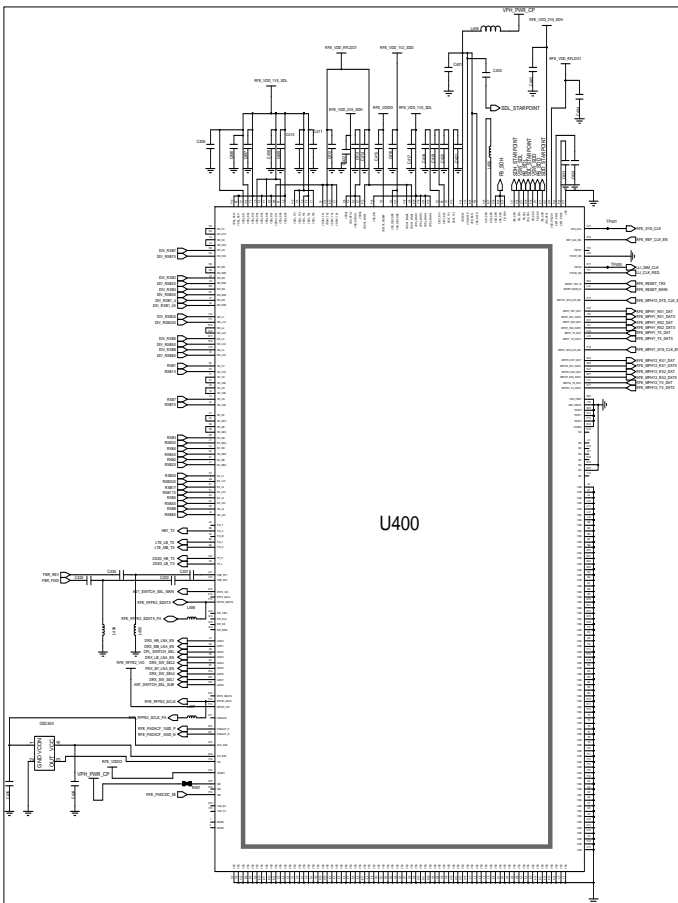
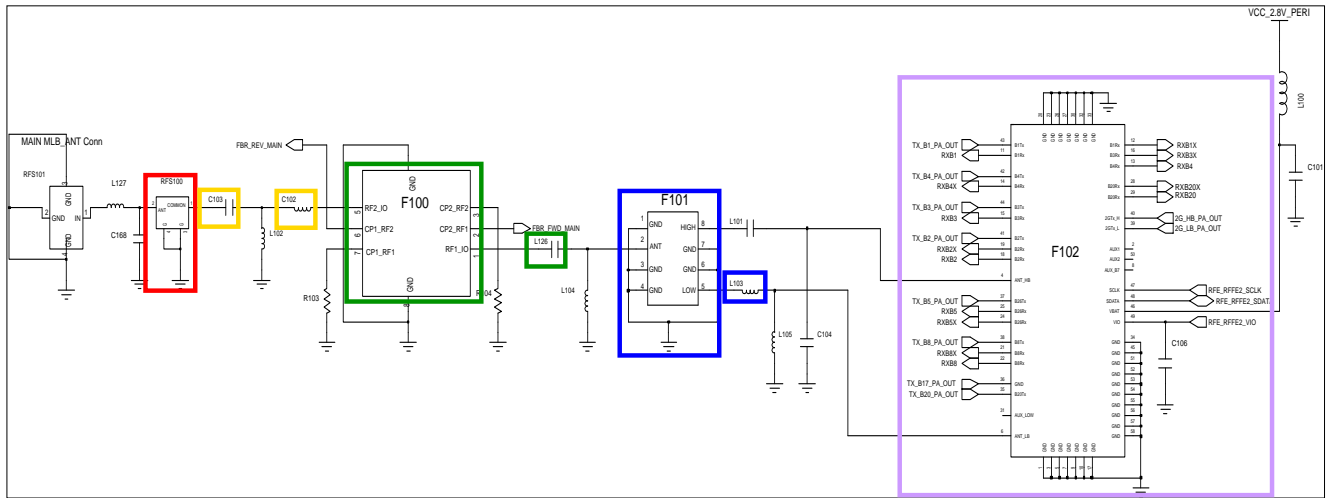




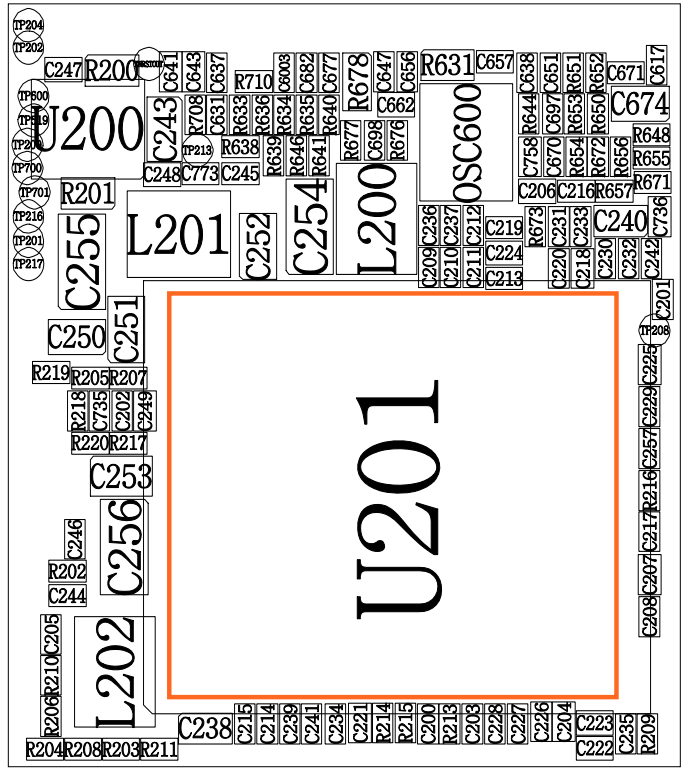
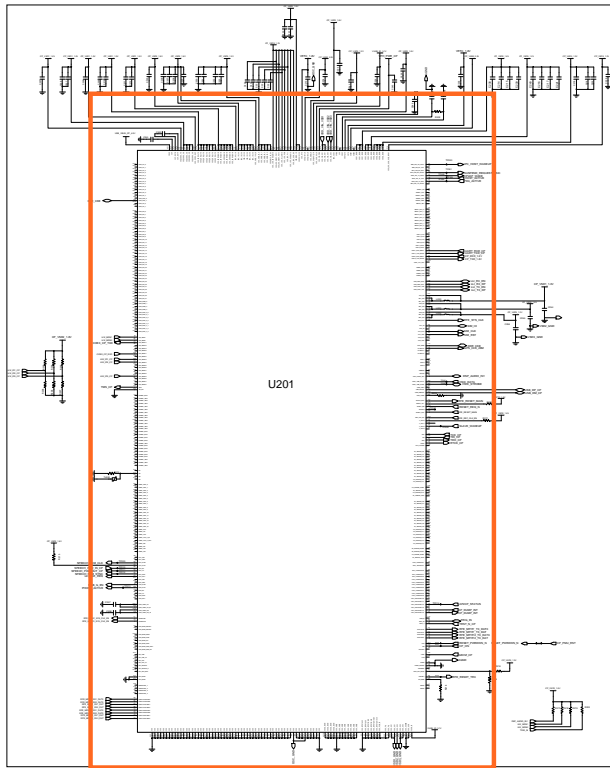
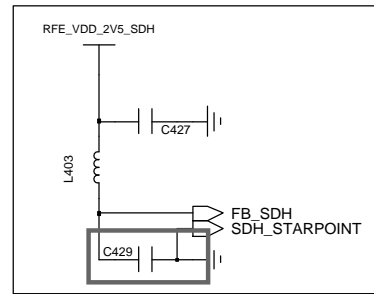
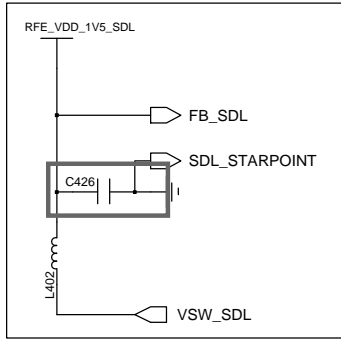
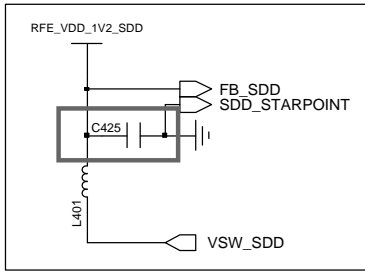
8-3-24. WCDMA850 RX / LTE BAND5 RX

CONTINUOUS RX ON  
RF INPUT : 4407CH  
AMP : -50dBm



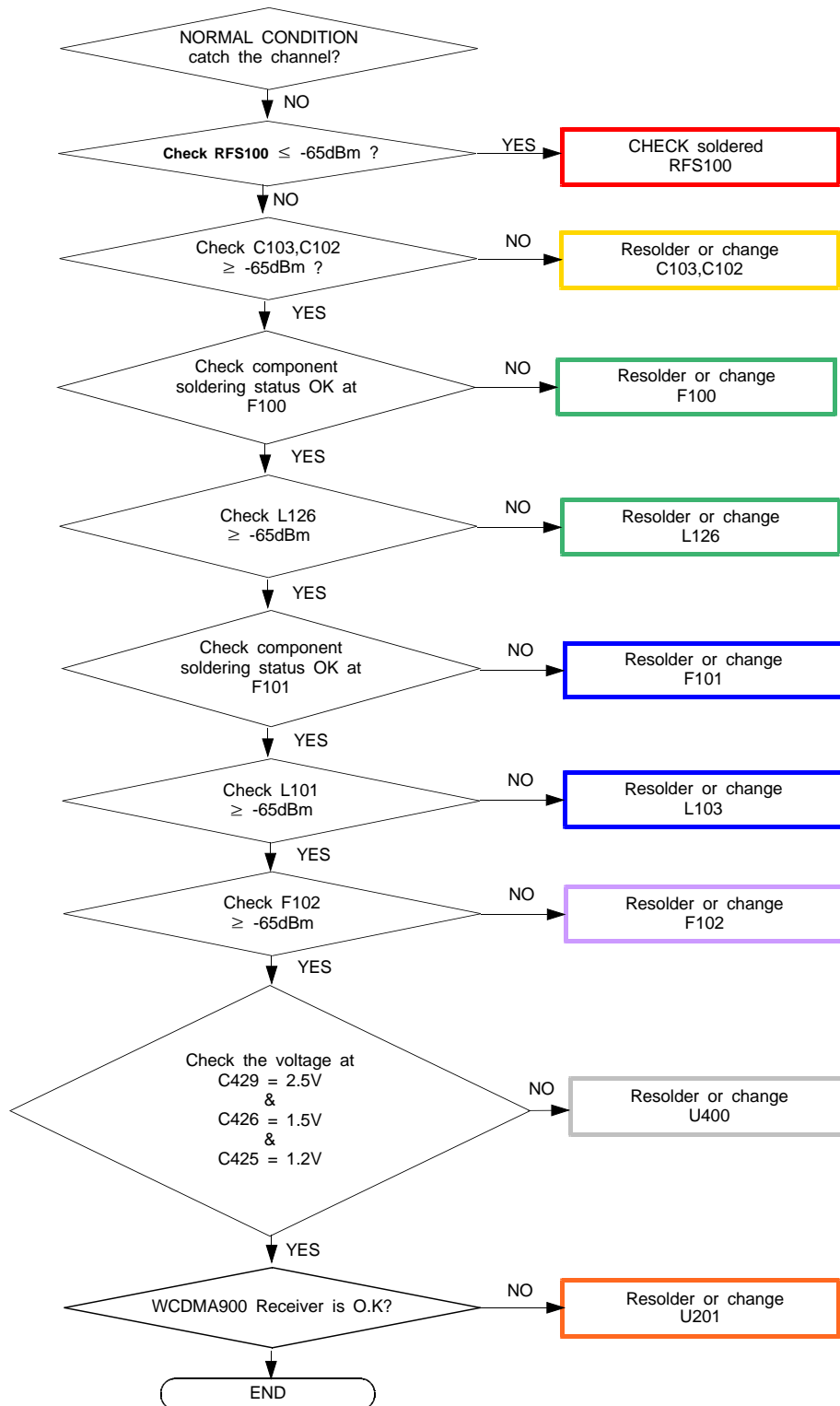


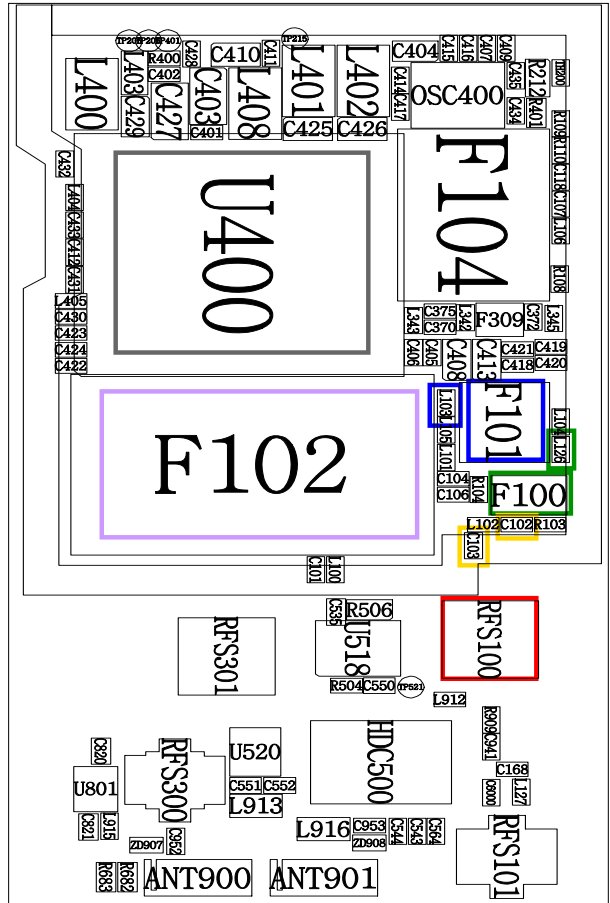
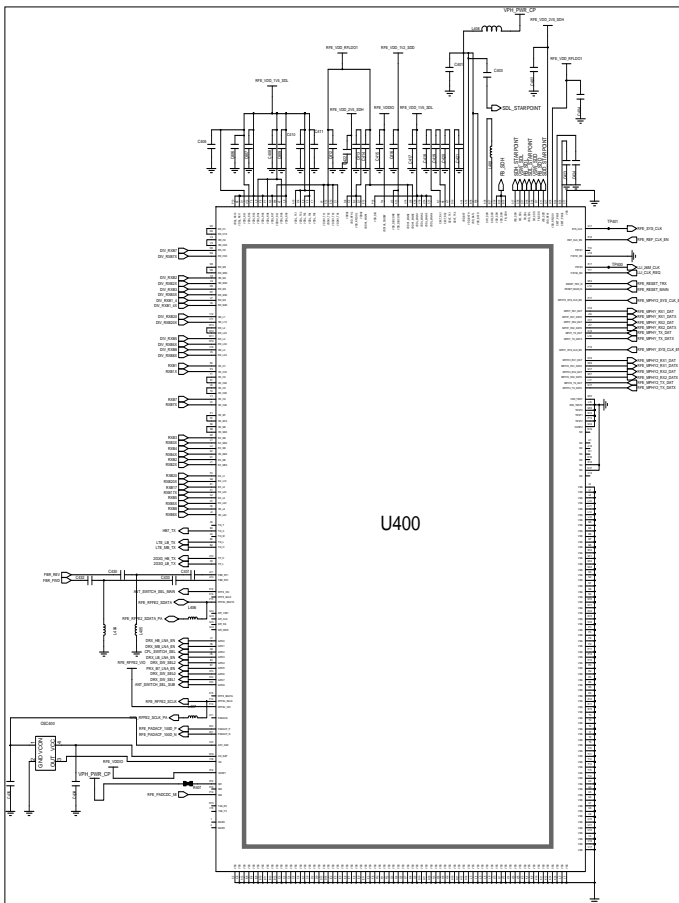
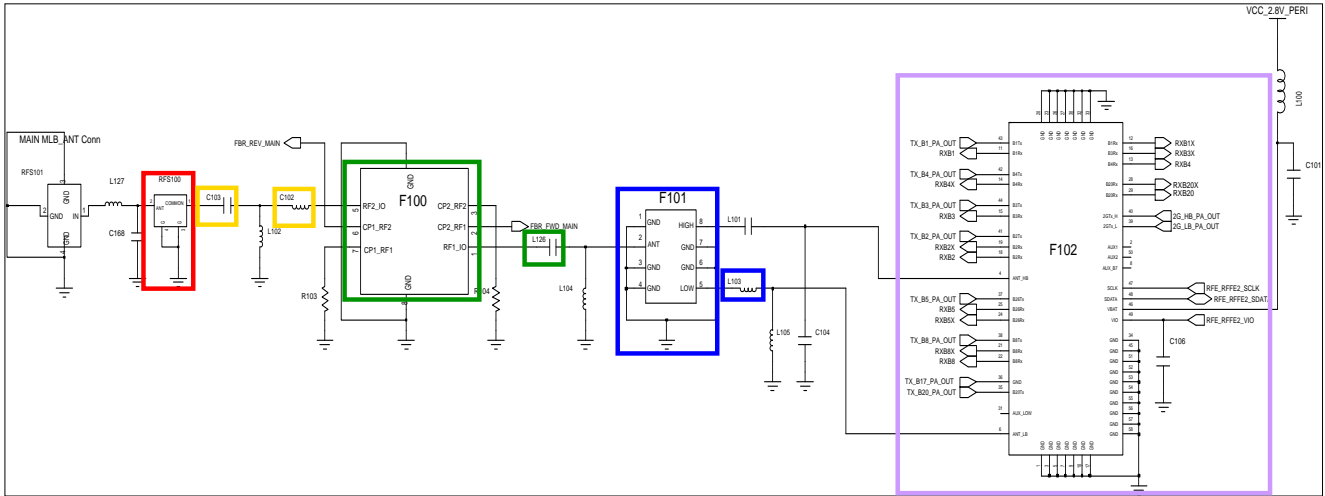


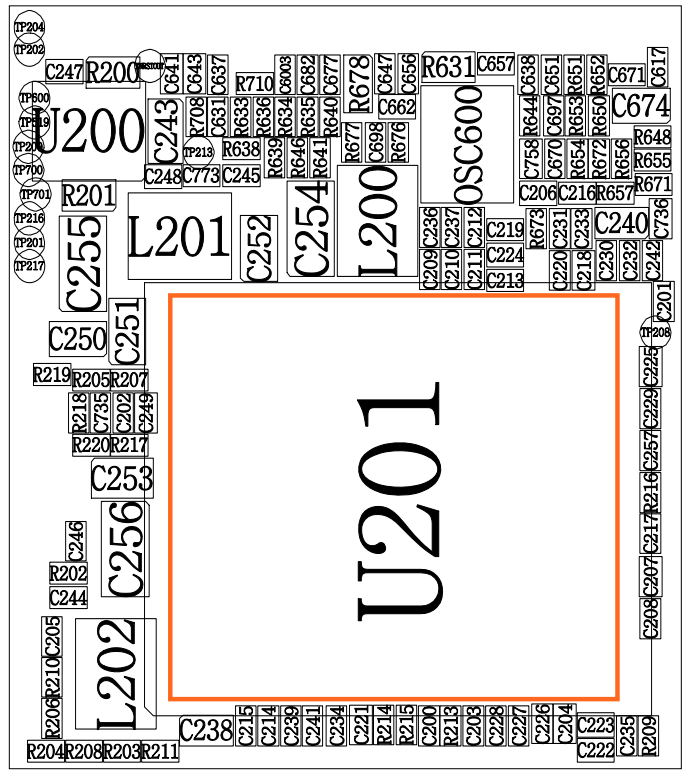
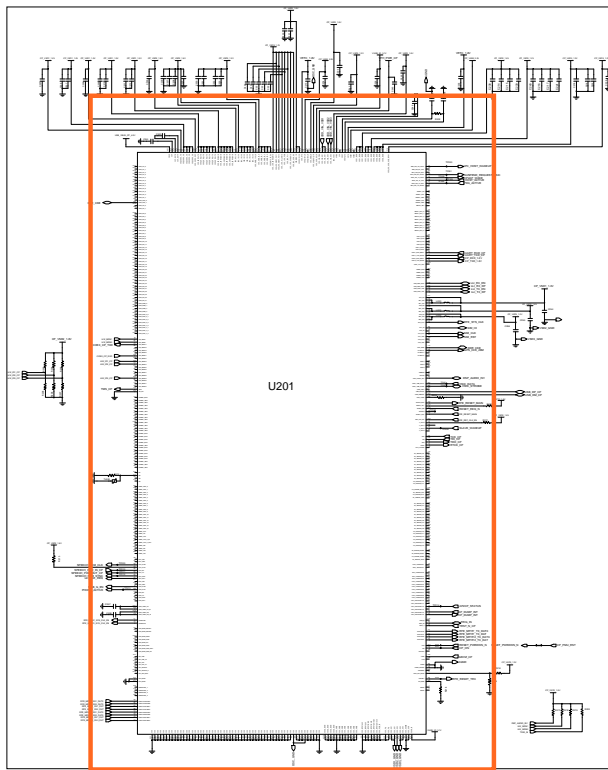
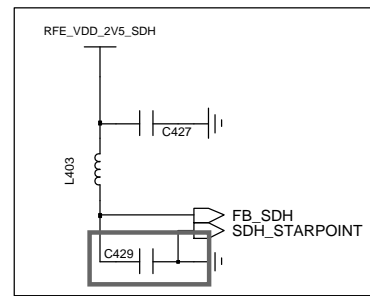
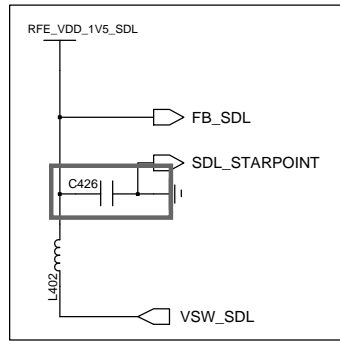
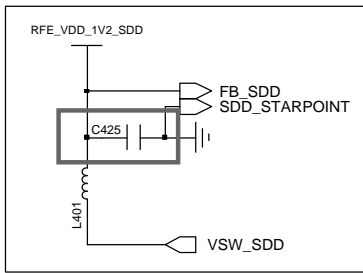


8-3-25. WCDMA900 RX / LTE BAND8 RX

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

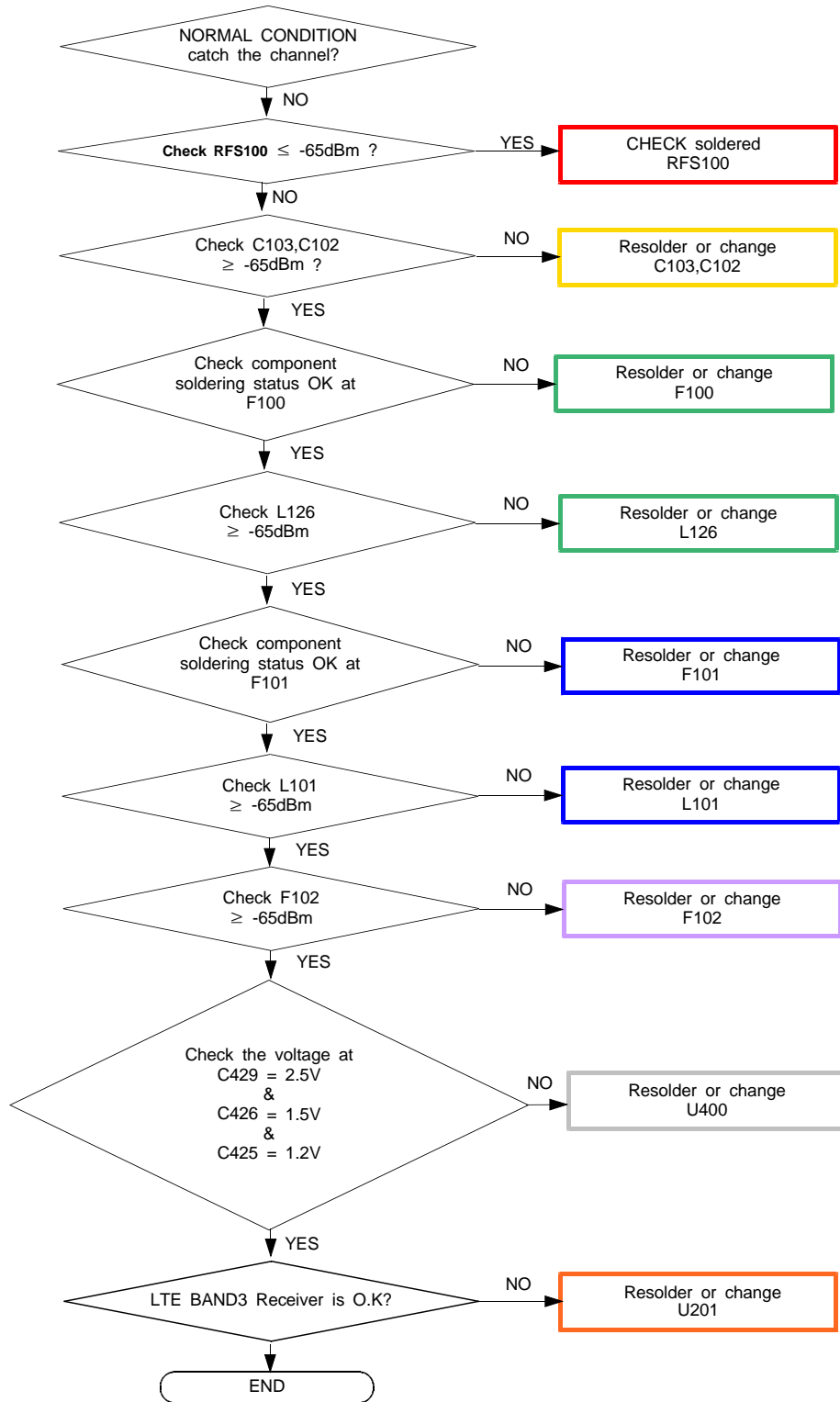


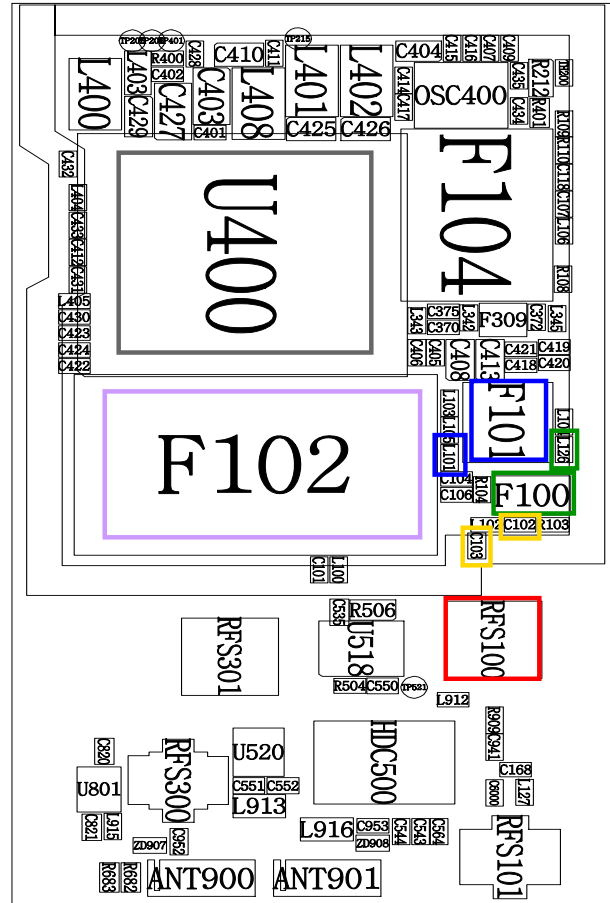
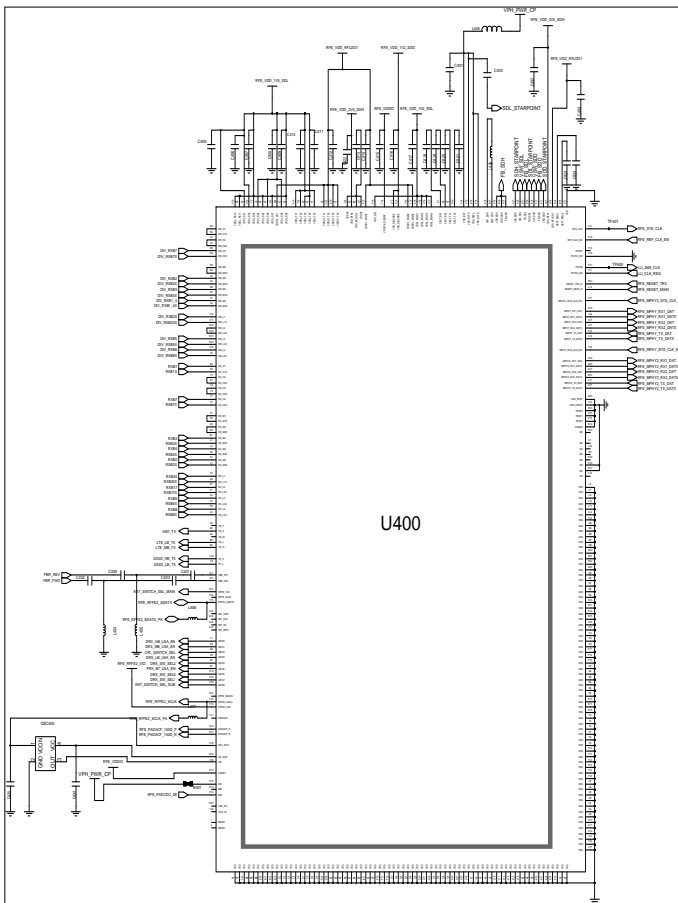
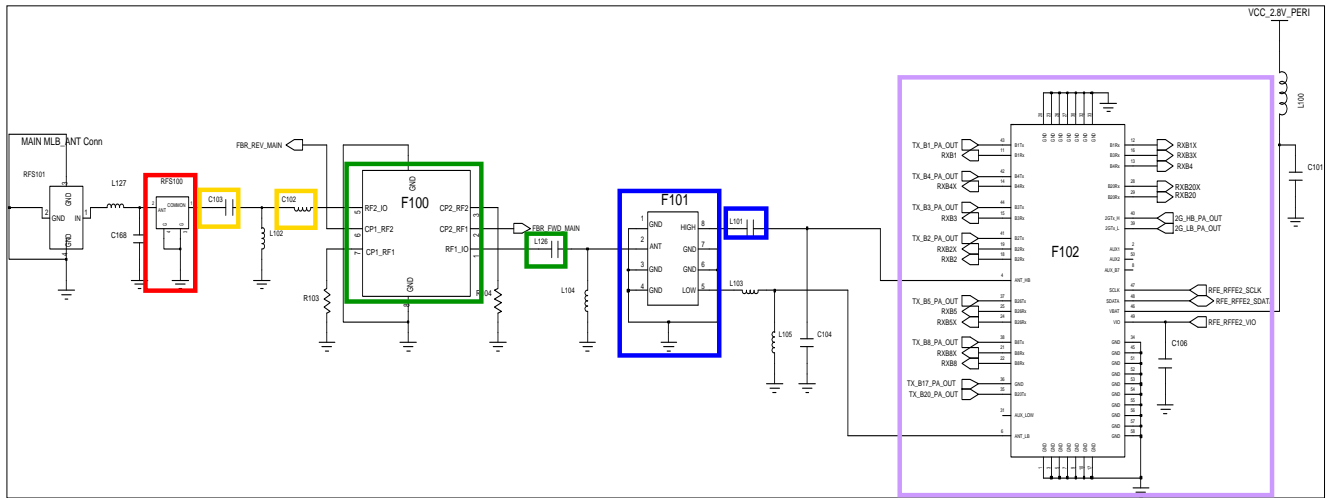


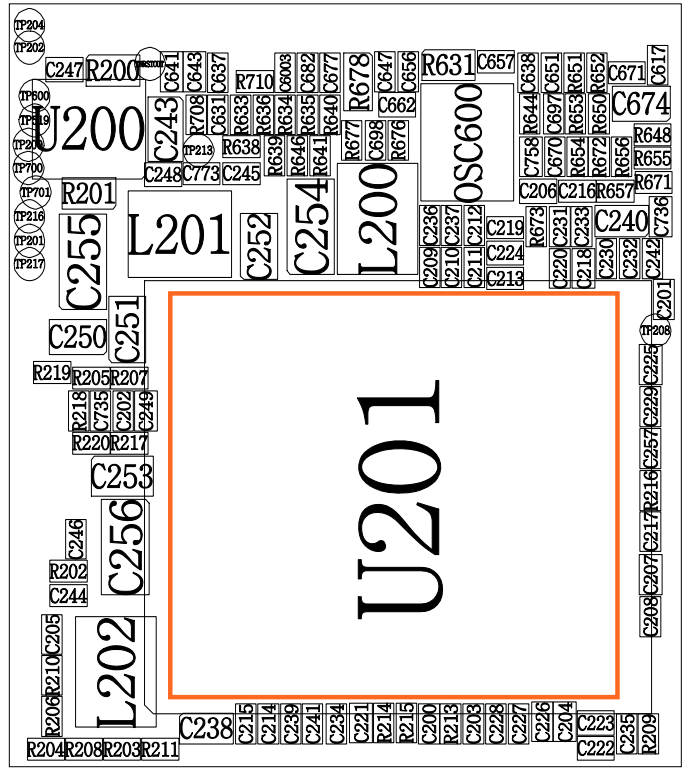
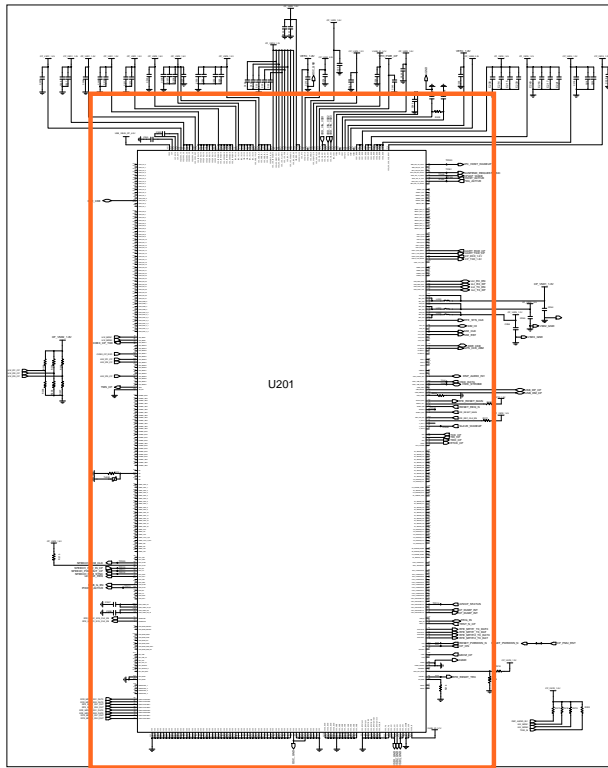
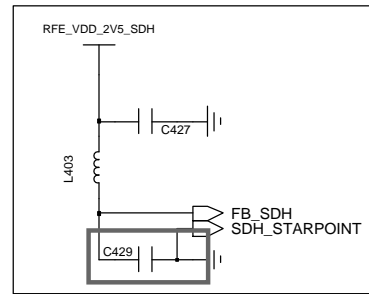
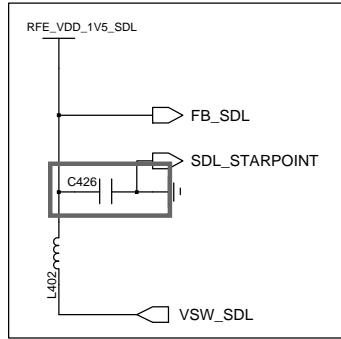
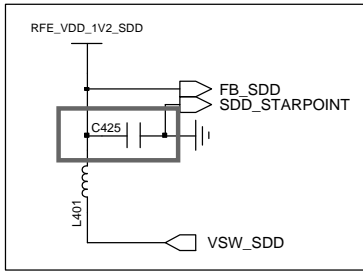


8-3-26. LTE Band3 RX

CONTINUOUS RX ON  
 RF INPUT : 1575CH  
 AMP : -50dBm

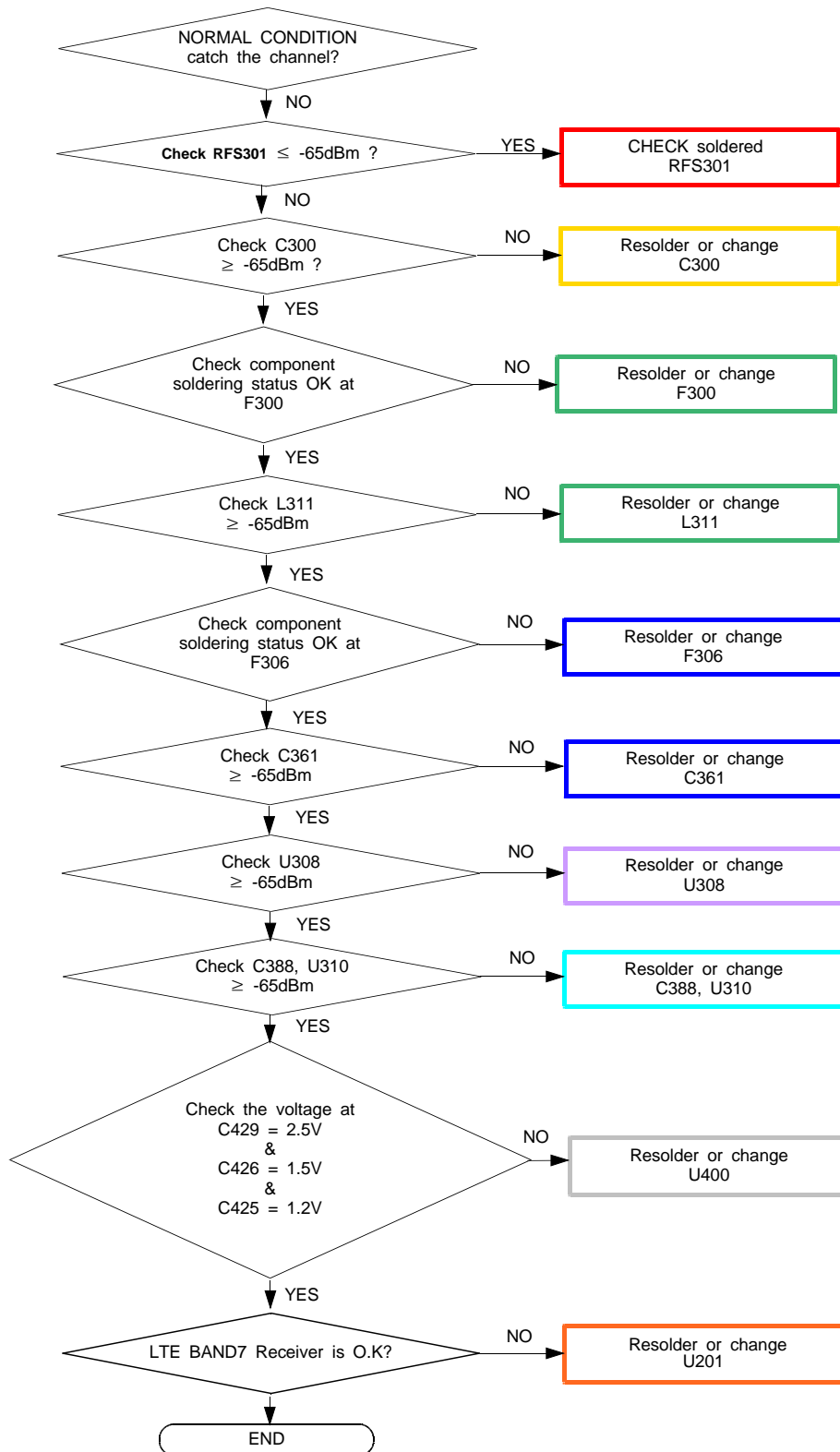




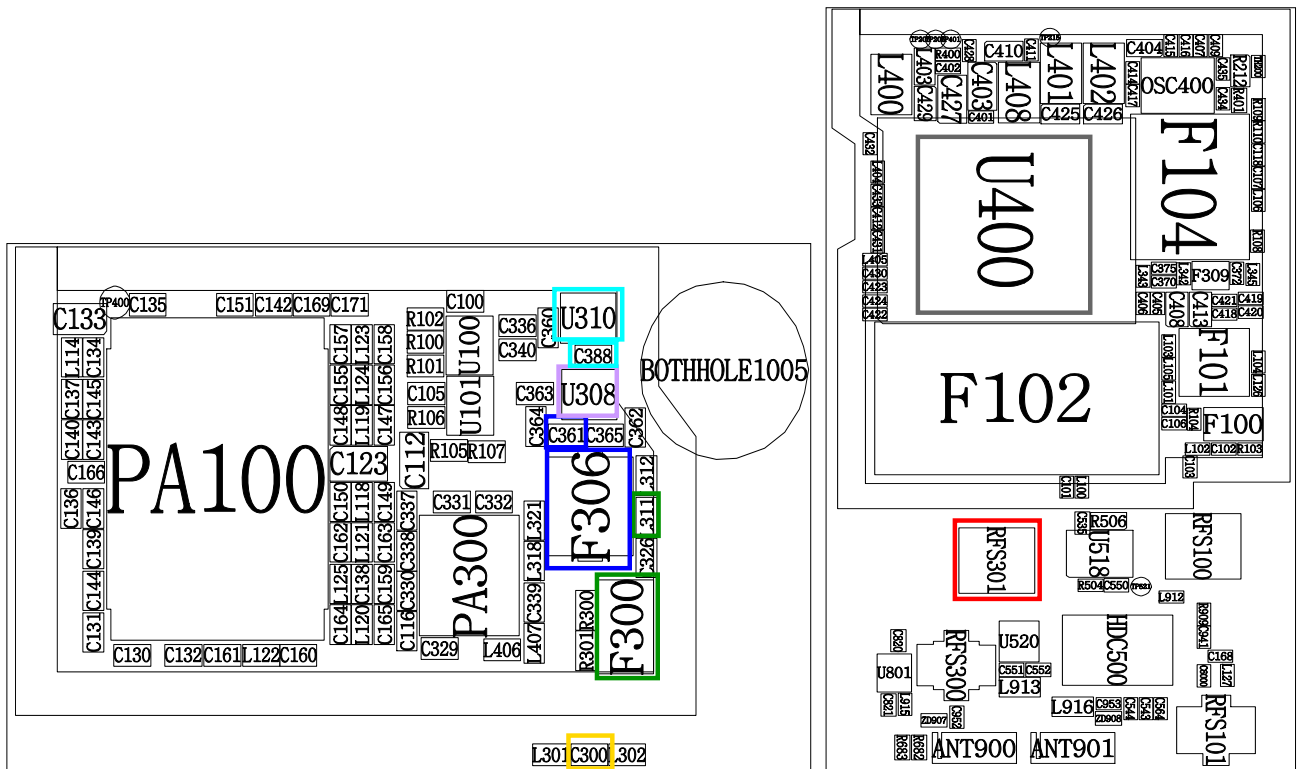
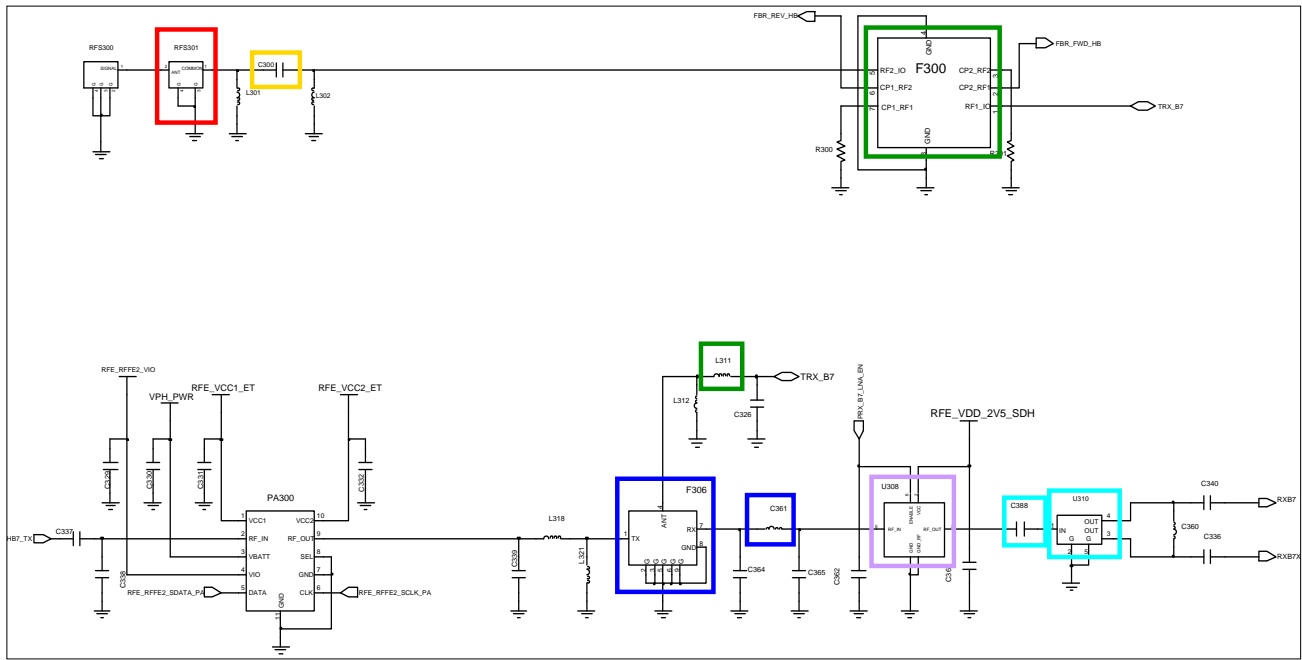


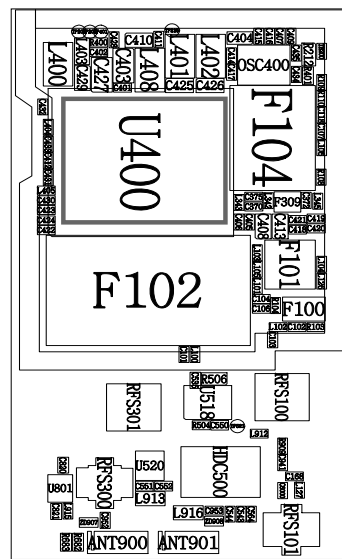
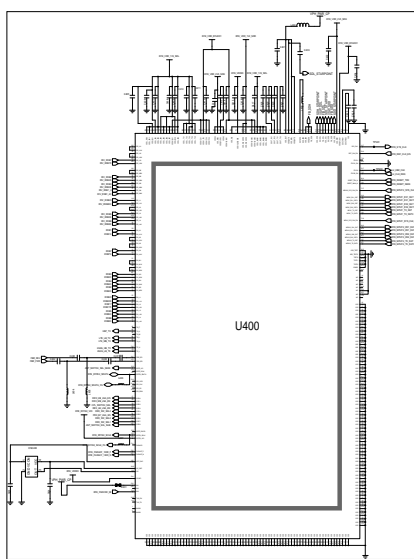
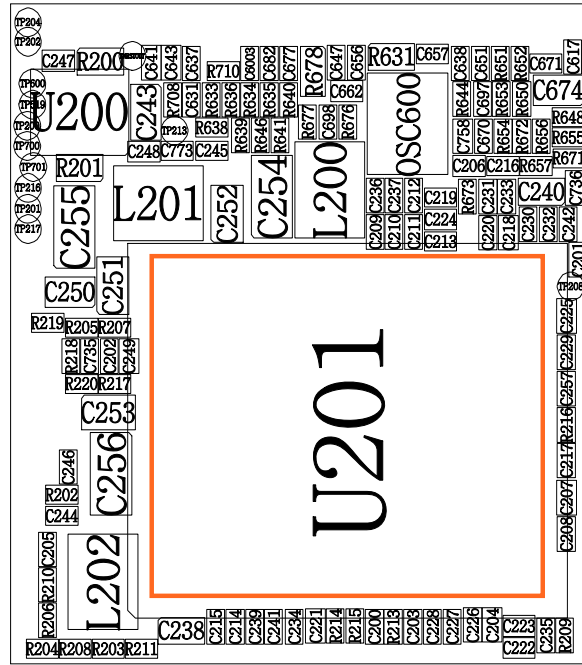
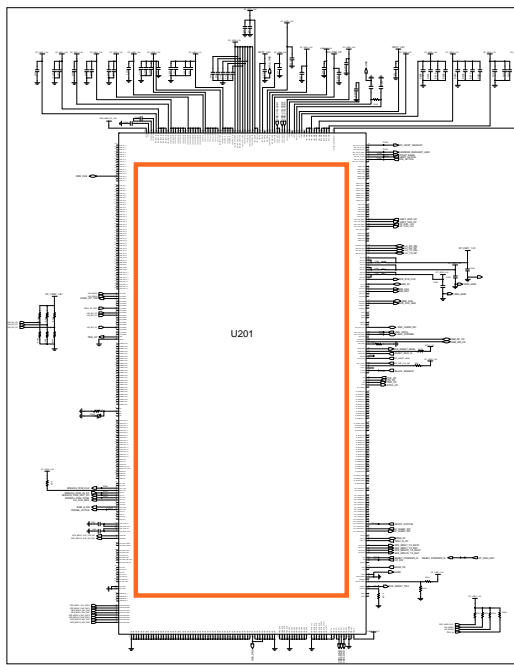
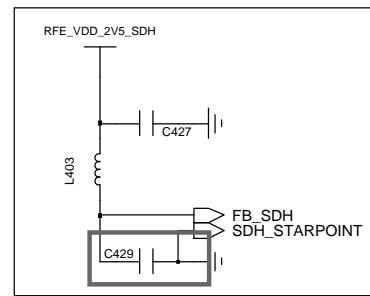
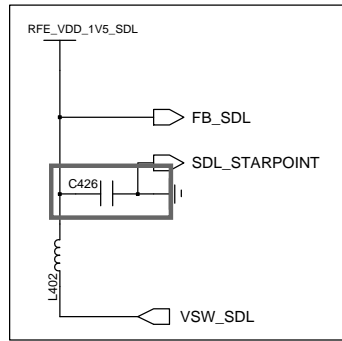
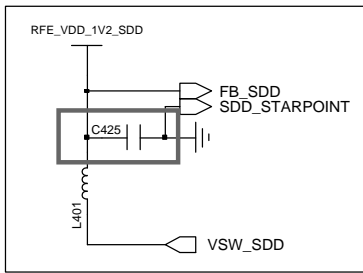
8-3-27. LTE B7 RX

CONTINUOUS RX ON  
RF INPUT : 3100CH  
AMP : -50dBm



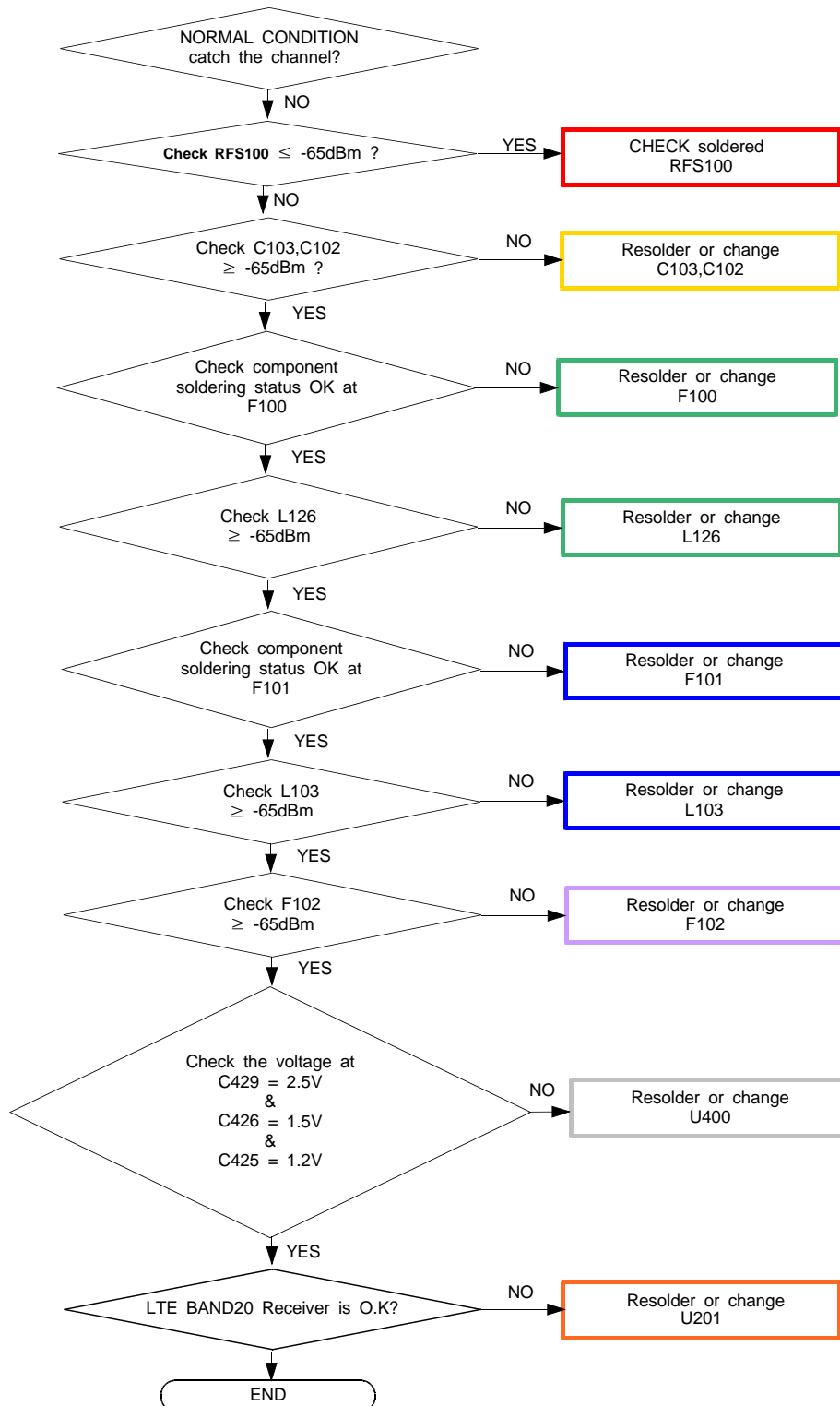


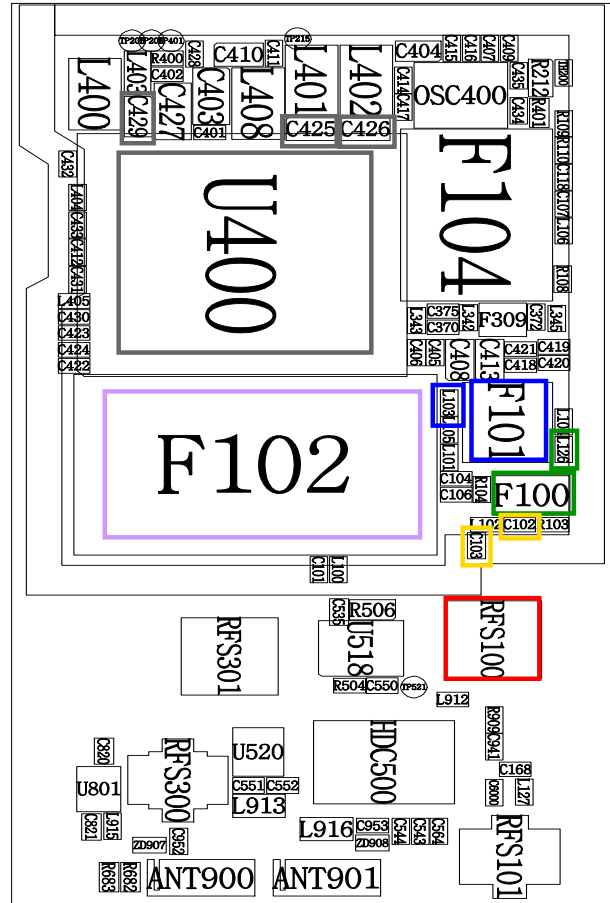
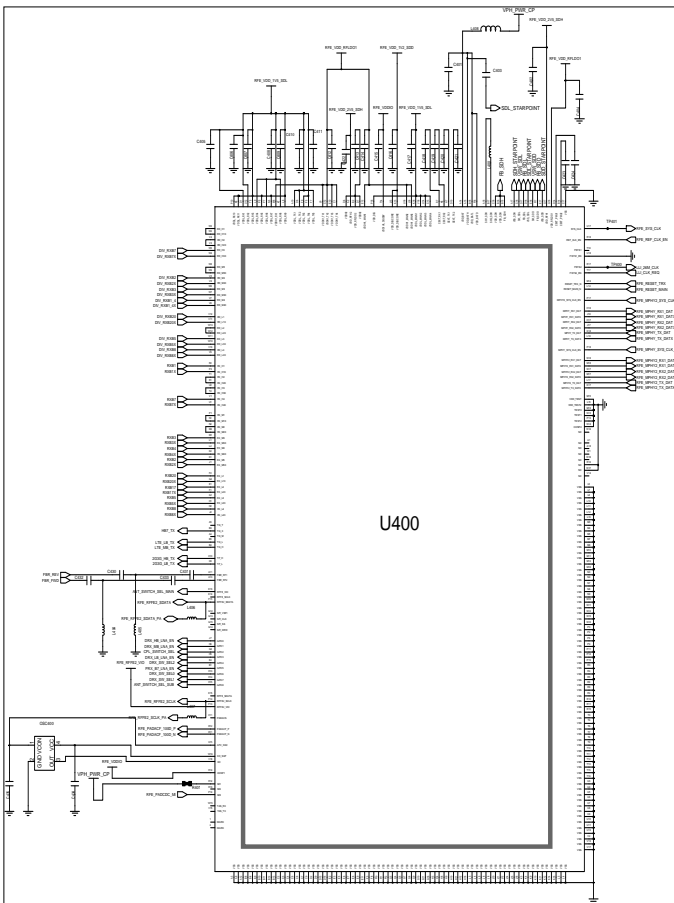
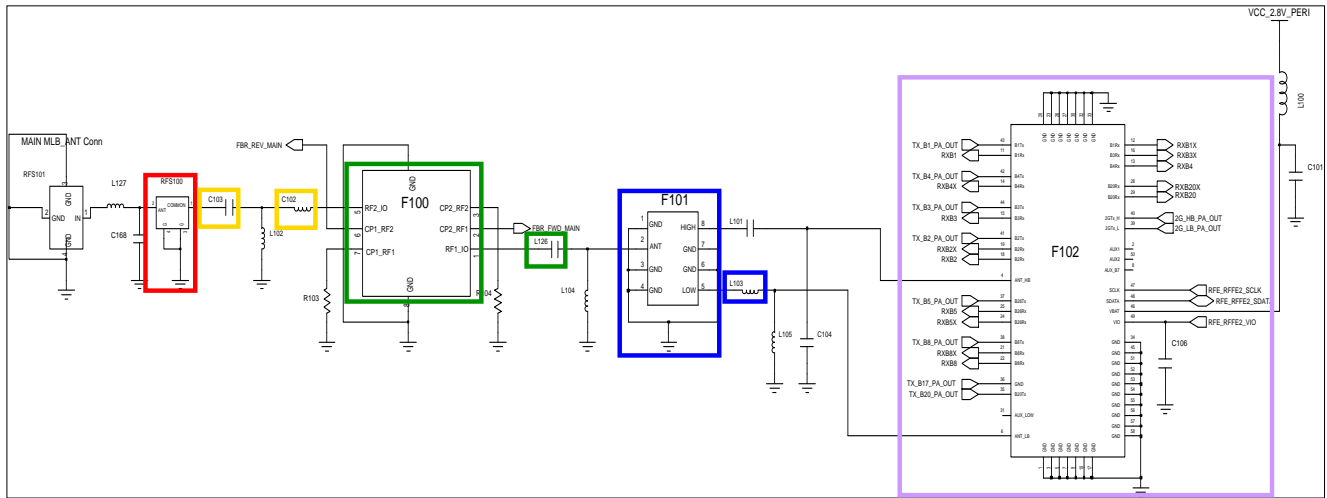


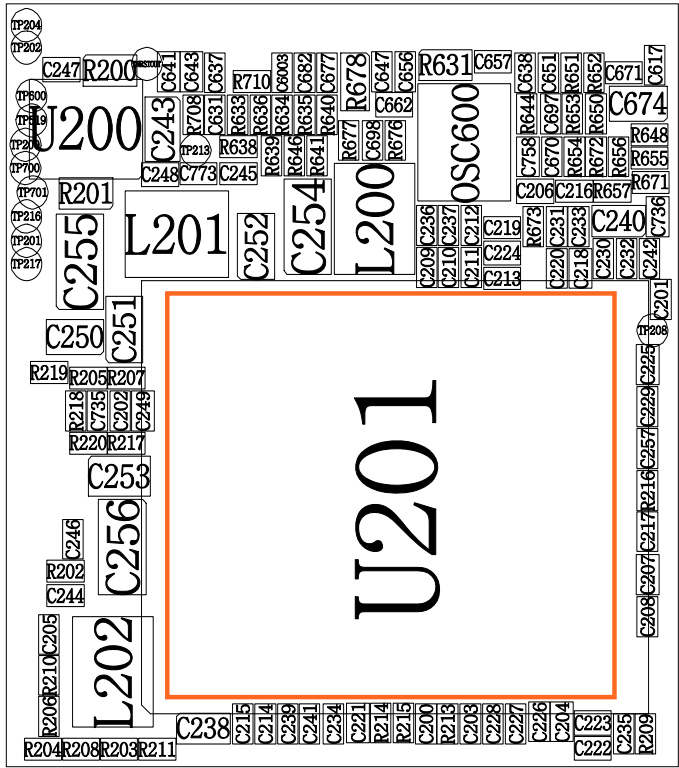
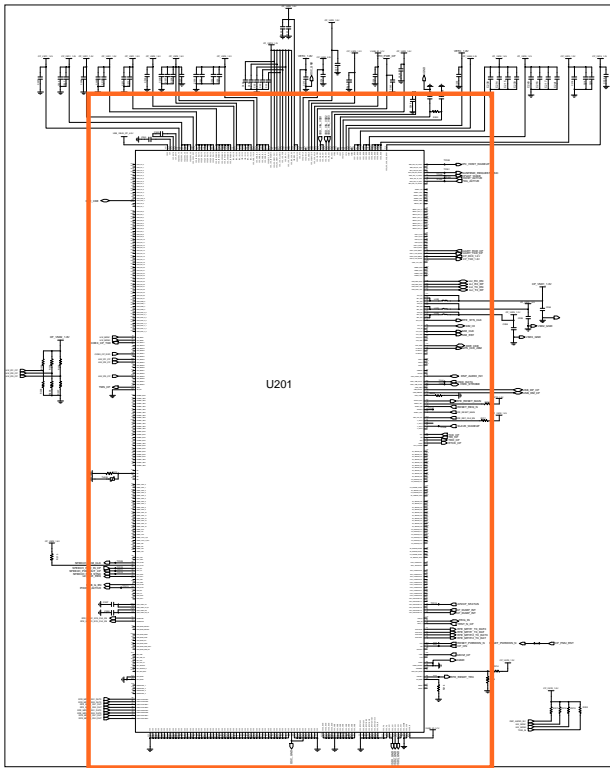
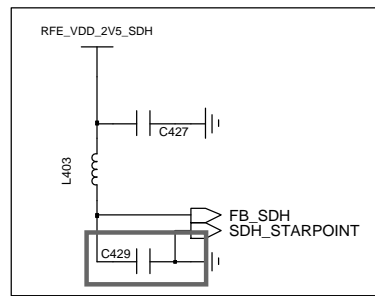
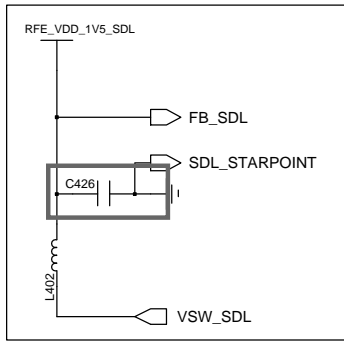
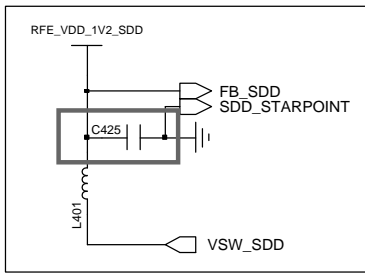


8-3-28. LTE Band 20 RX

CONTINUOUS RX ON  
 RF INPUT : 6300CH  
 AMP : -50dBm

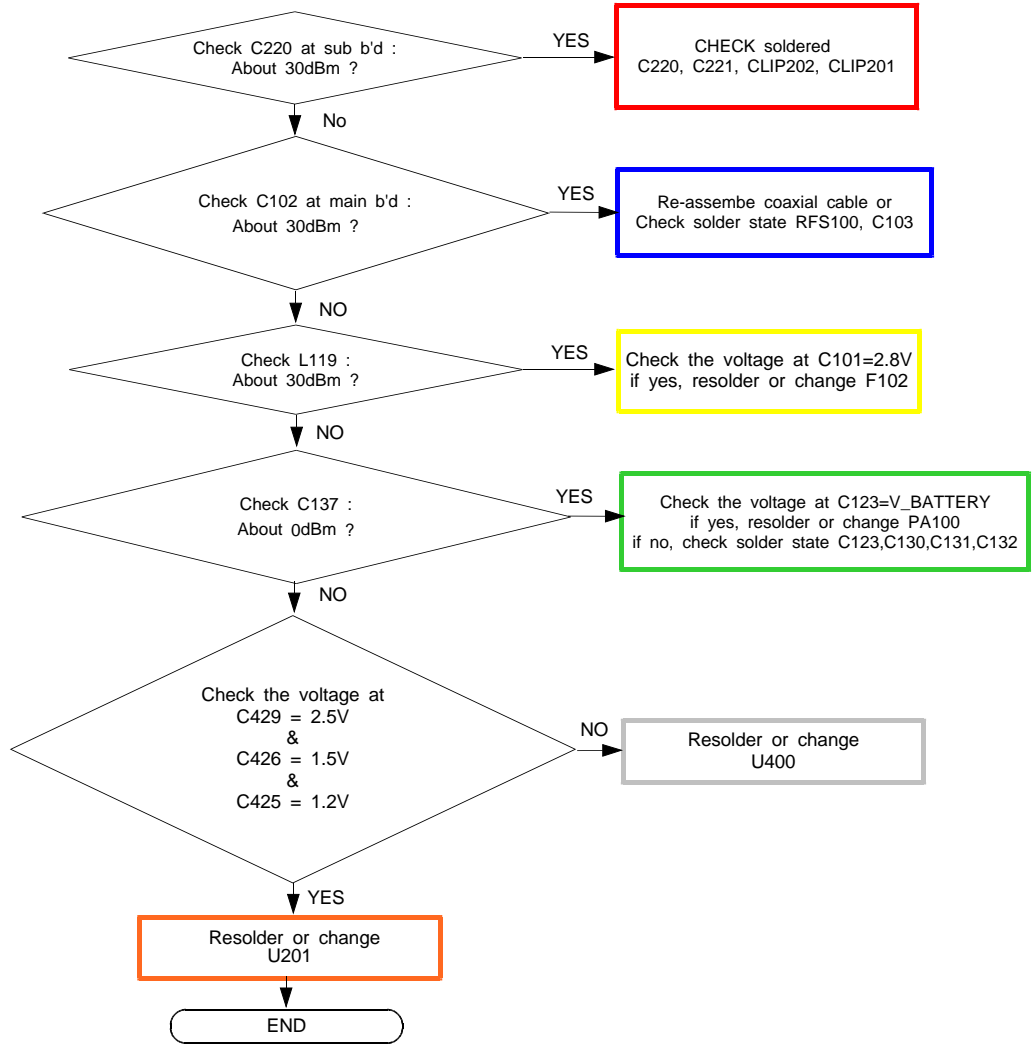


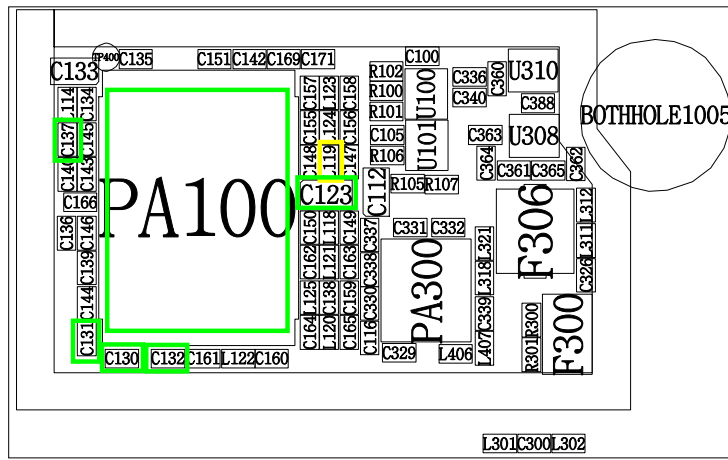
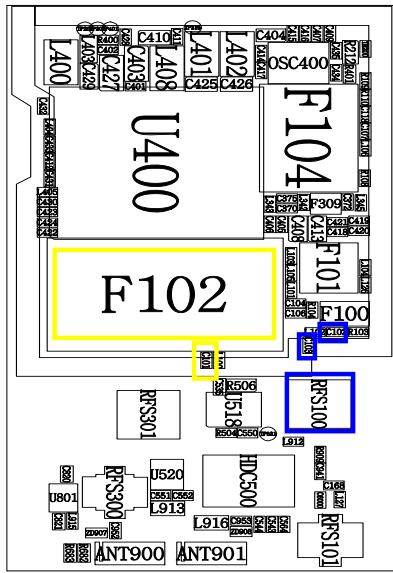
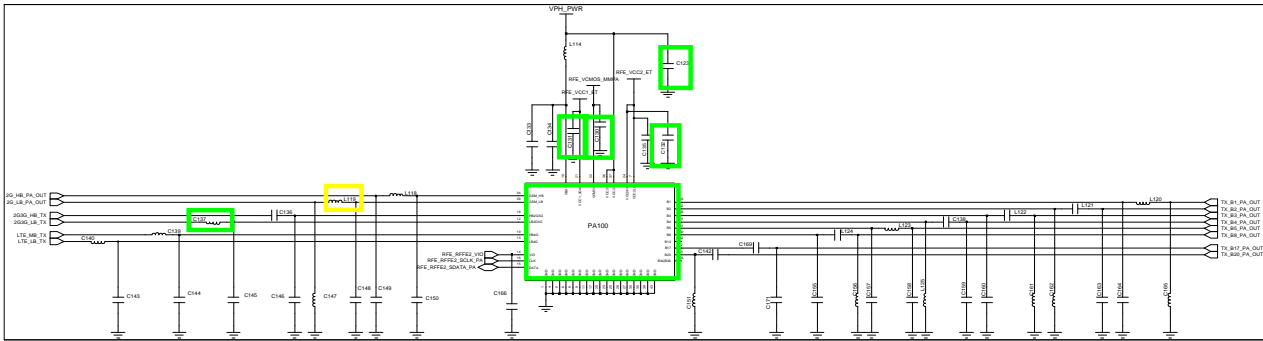
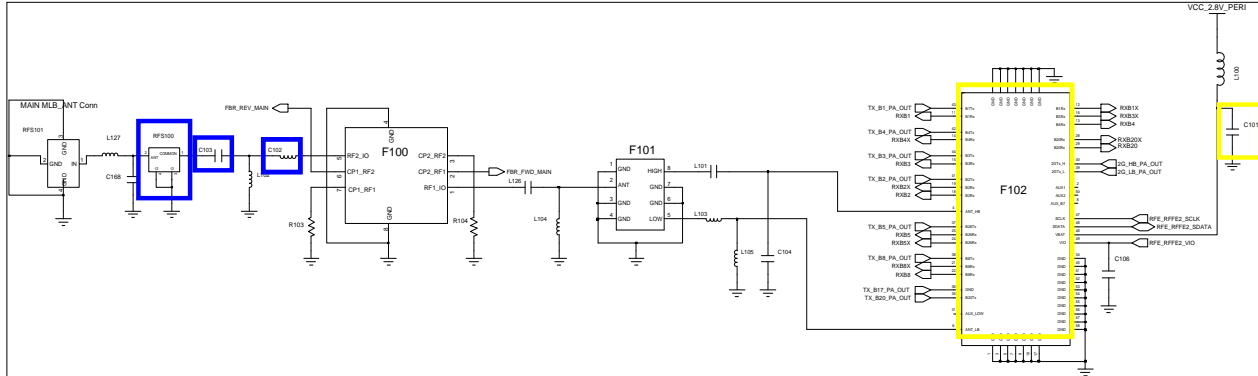
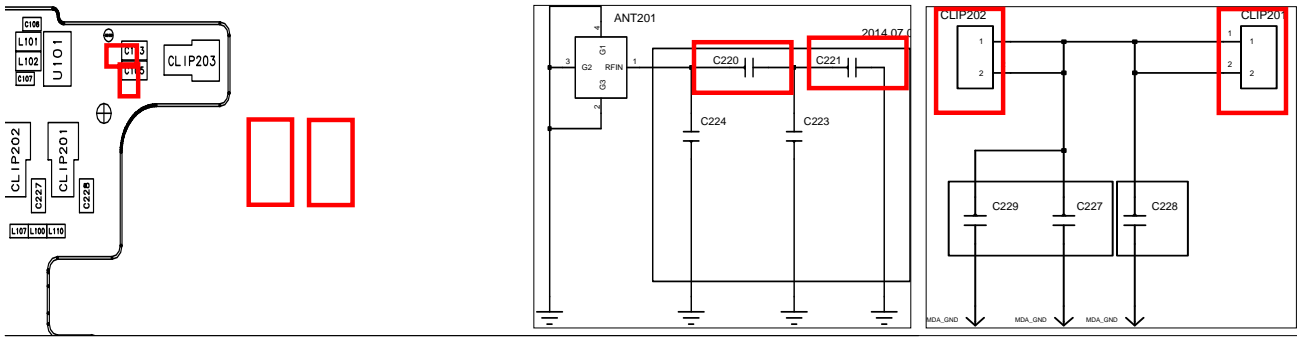


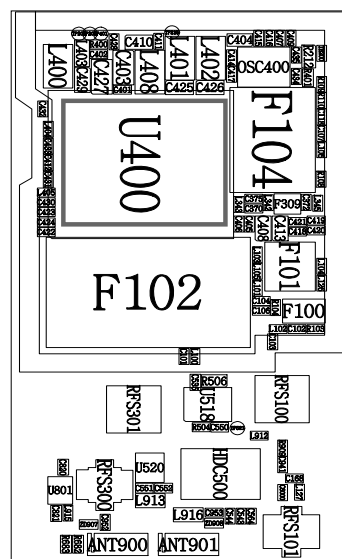
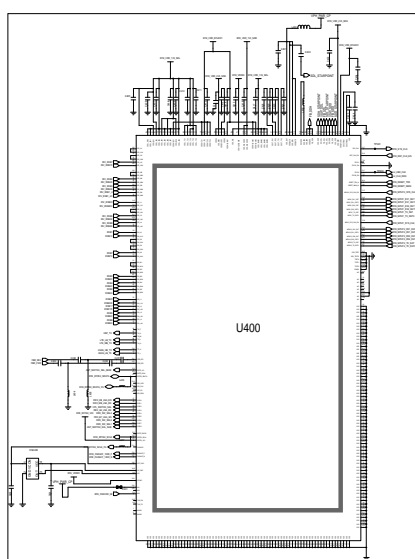
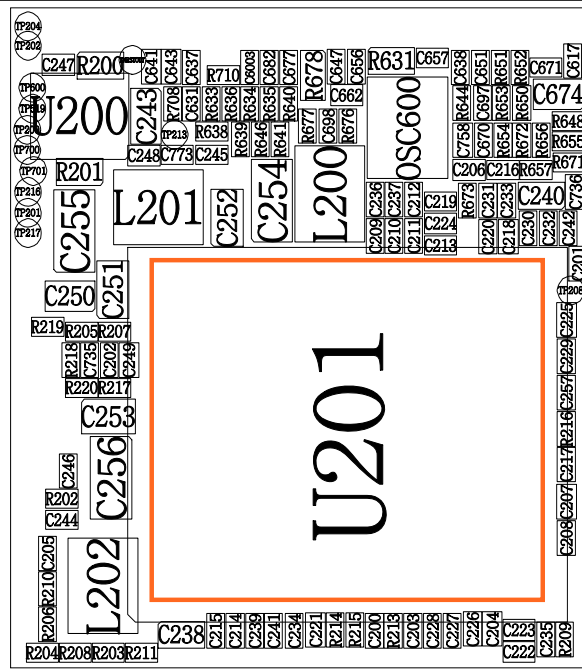
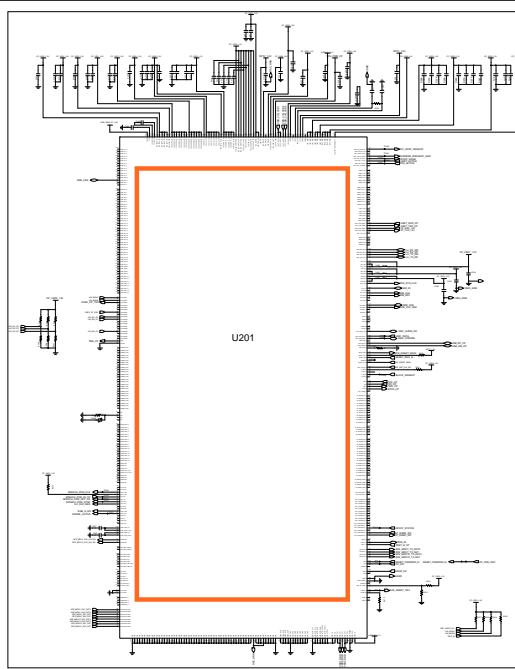
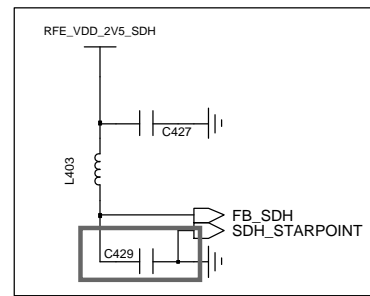
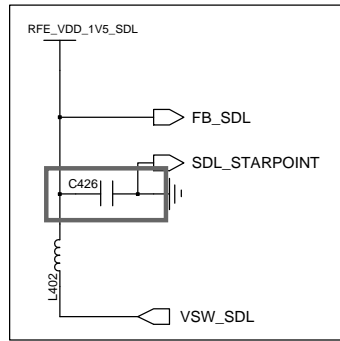
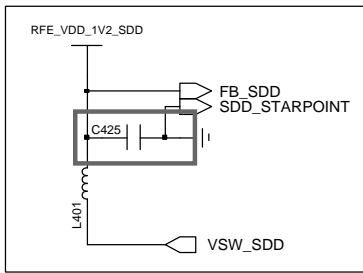


8-3-29. GSM850/GSM900 TX

CONTINUOUS TX ON CONDITION  
 TX POWER IDX1 APPLIED  
 GSM850 CH : 190  
 GSM900 CH : 62  
 RBW : 100KHz  
 VBW : 100KHz  
 SPAN : 10MHz  
 REF LEV. : 10dBm  
 ATT. : 20dB



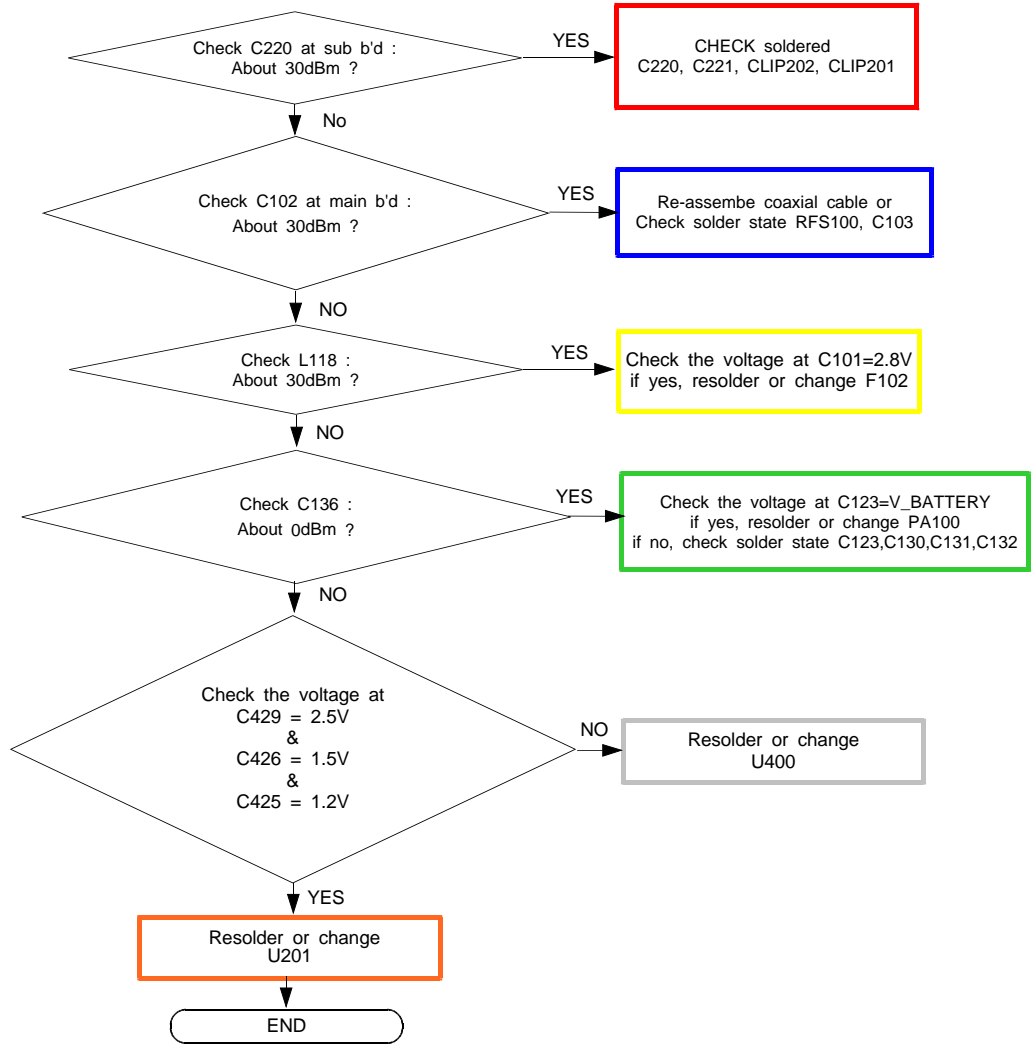


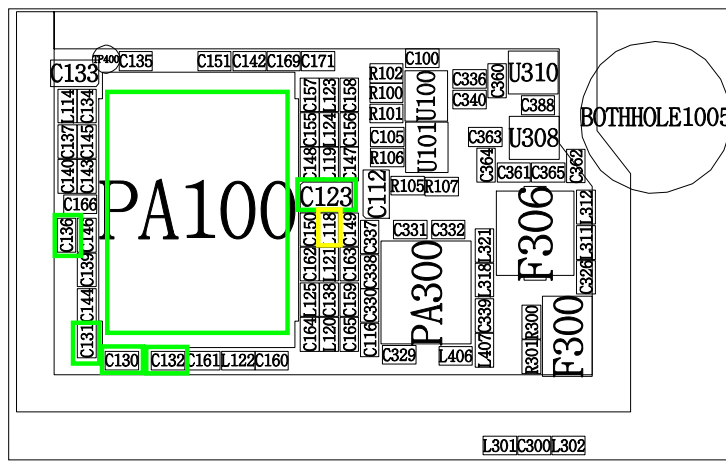
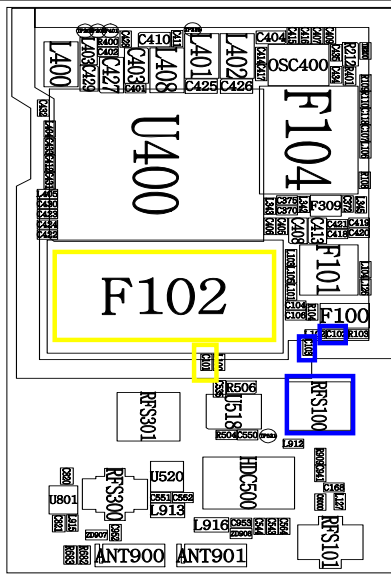
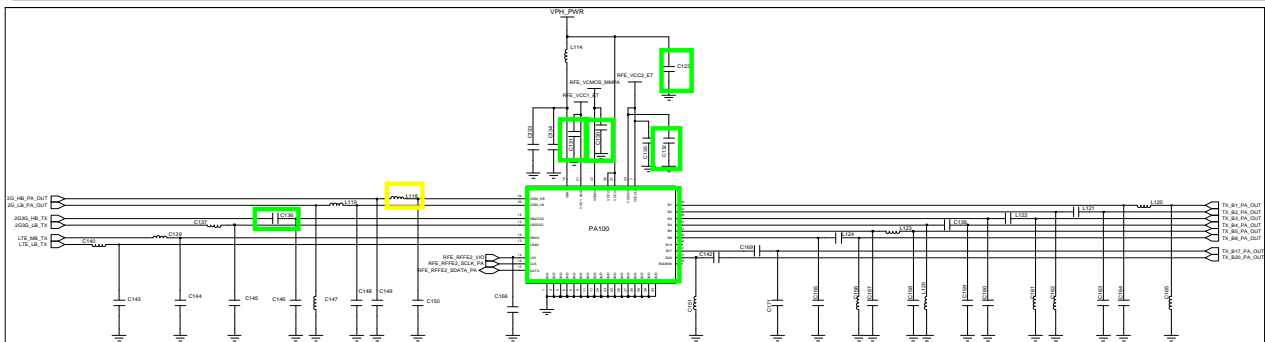
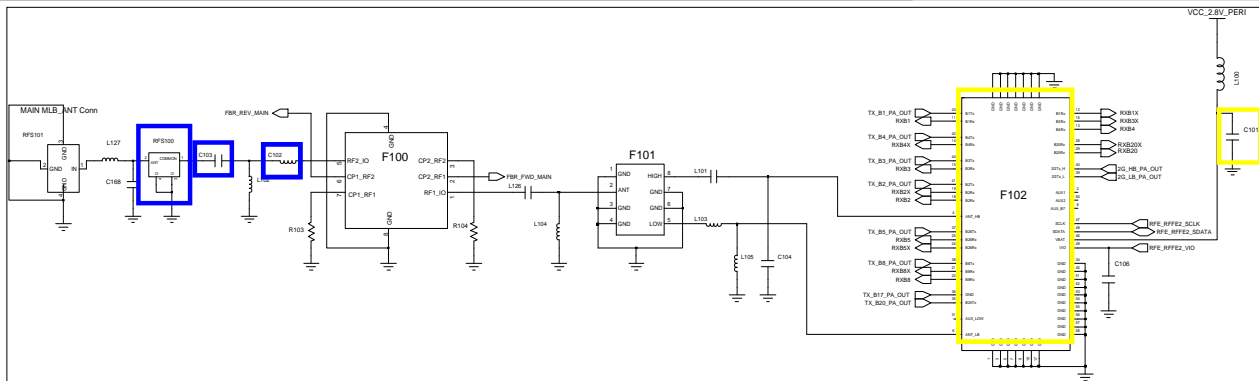
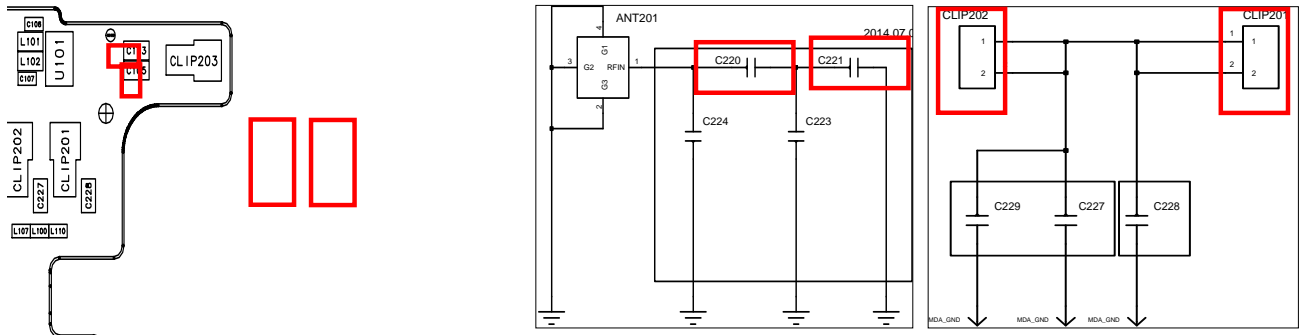


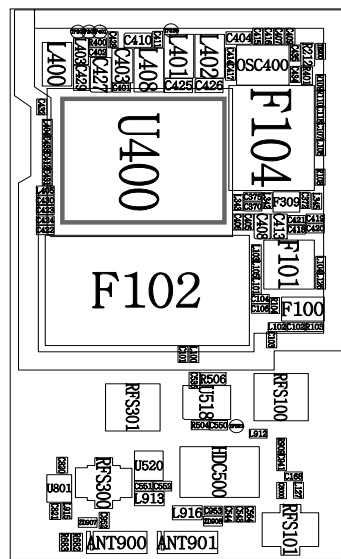
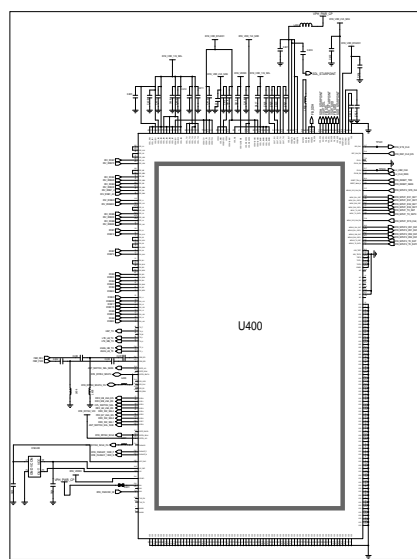
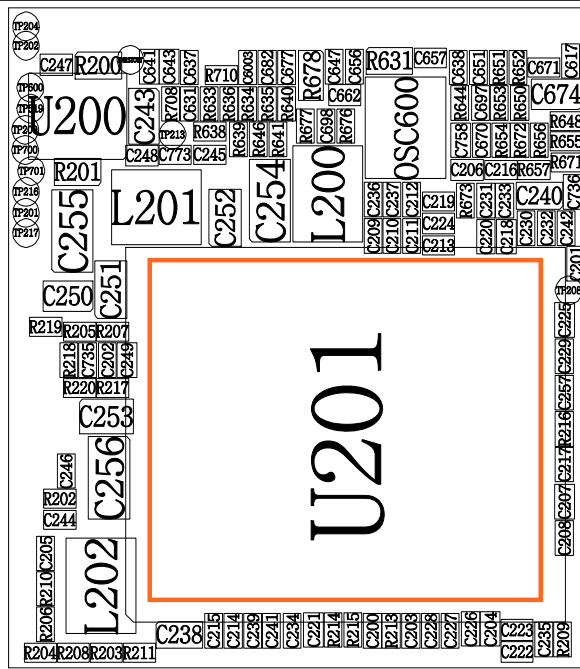
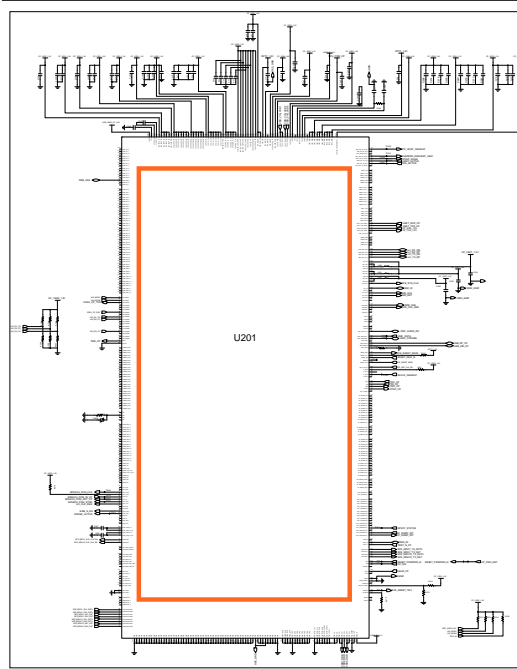
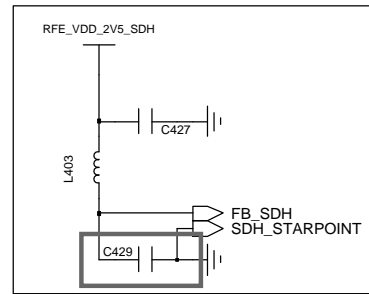
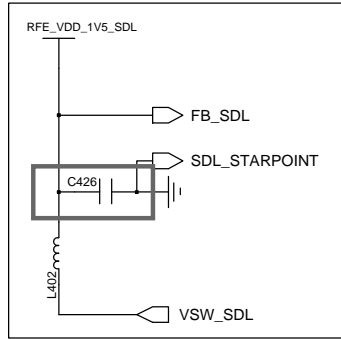
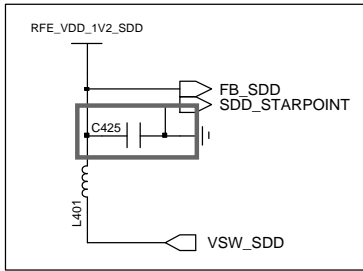


8-3-30. DCS/PCS TX

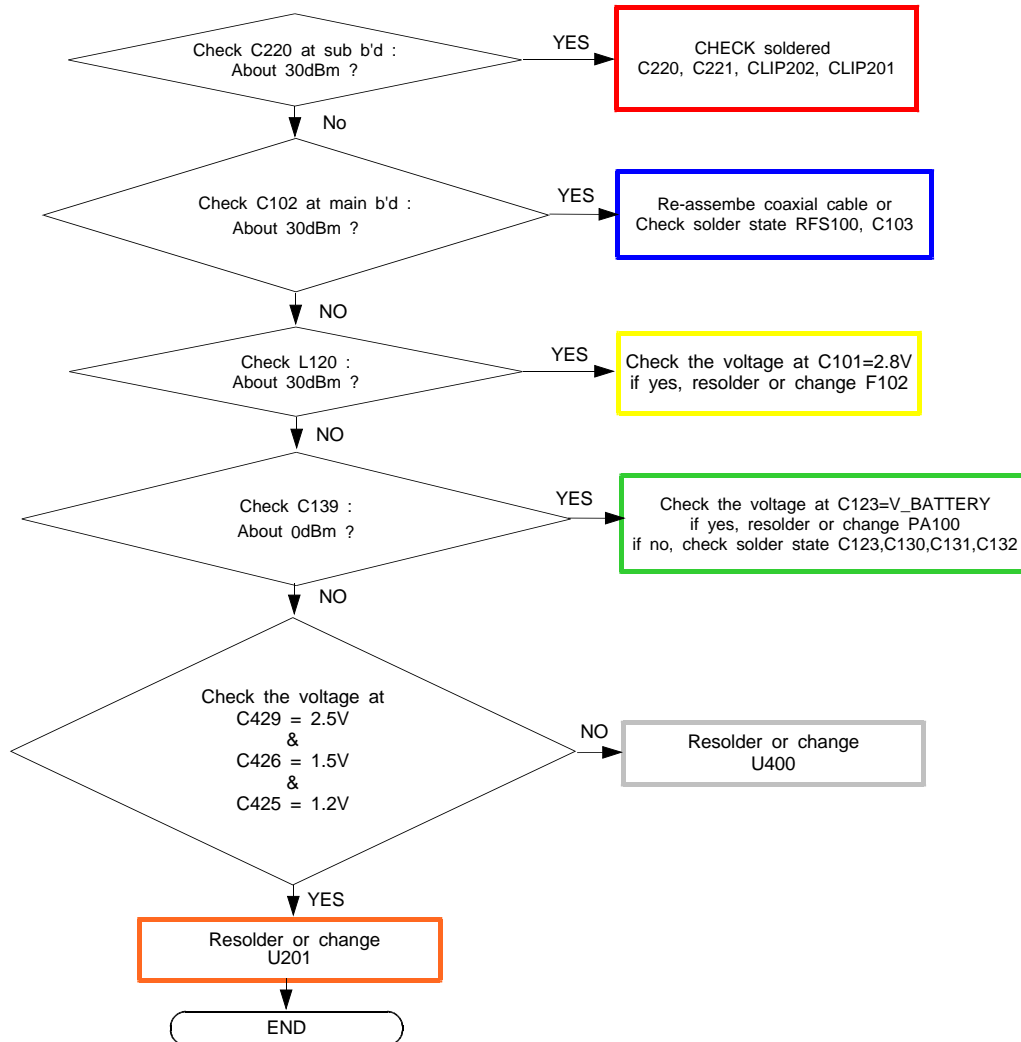
CONTINUOUS TX ON CONDITION  
 TX POWER IDX1 APPLIED  
 DCS CH : 698  
 PCS CH : 661  
 RBW : 100KHz  
 VBW : 100KHz  
 SPAN : 10MHz  
 REF LEV. : 10dBm  
 ATT. : 20dB

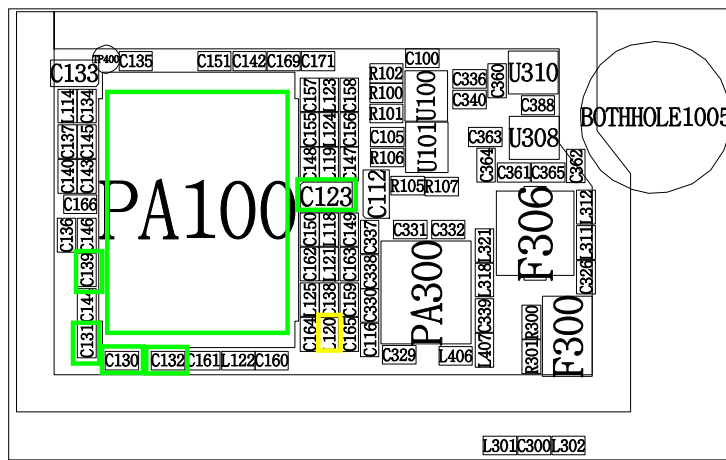
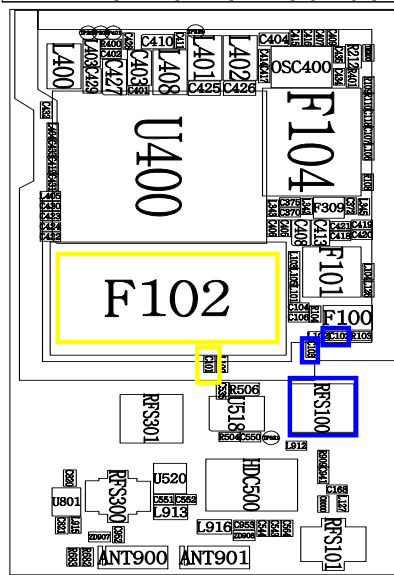
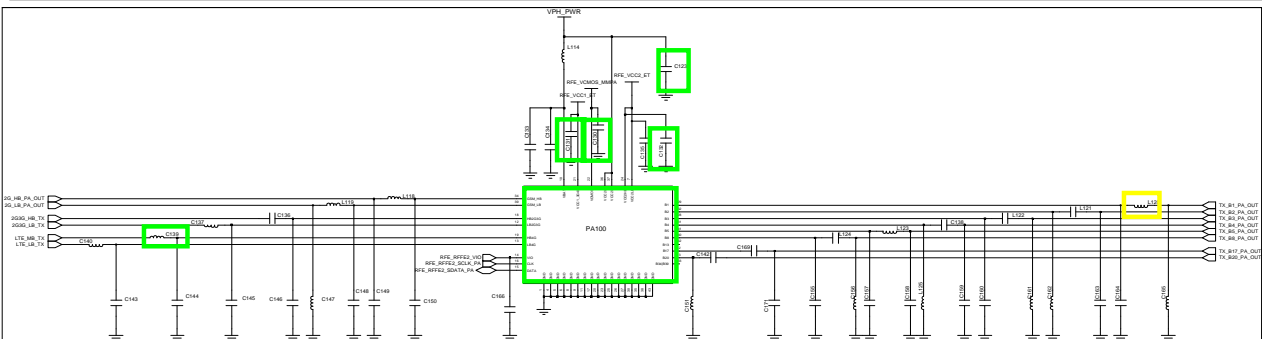
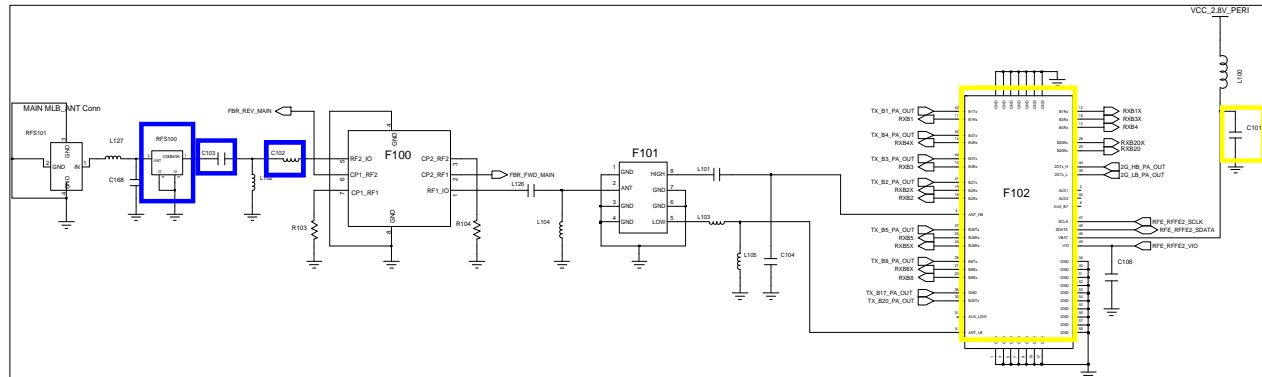
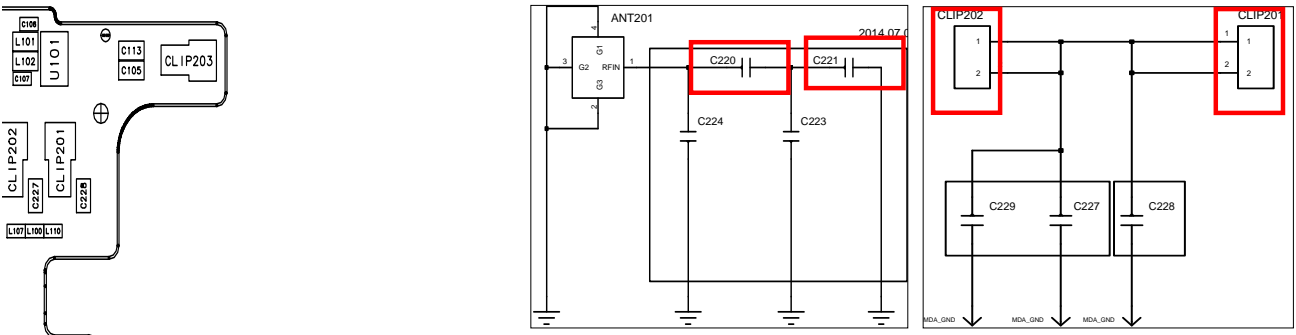


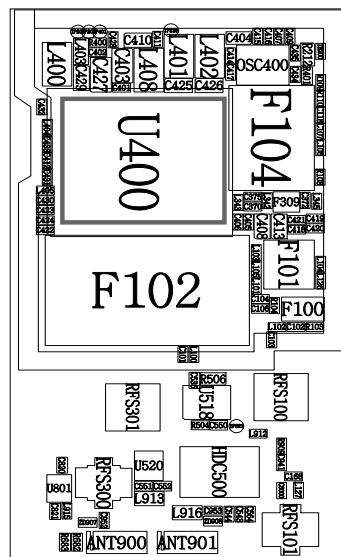
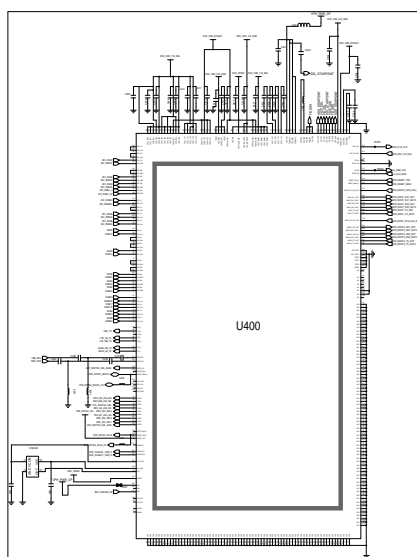
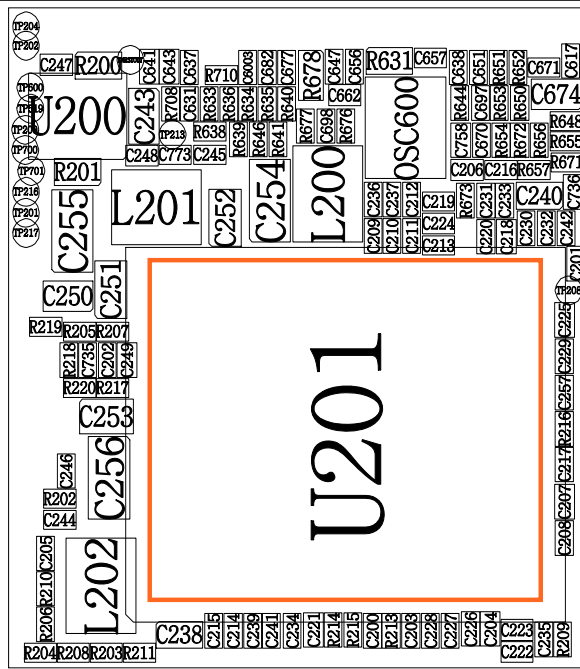
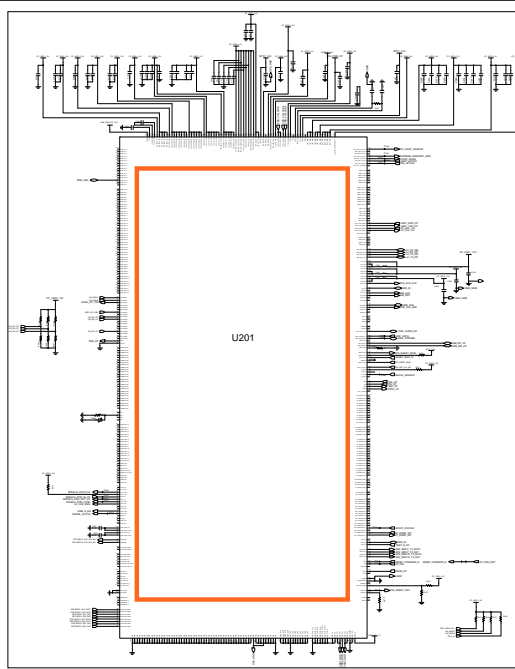
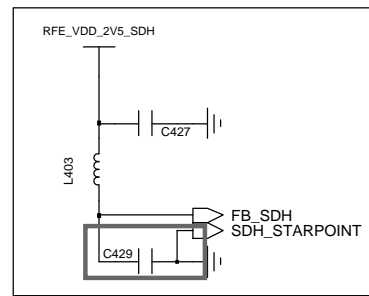
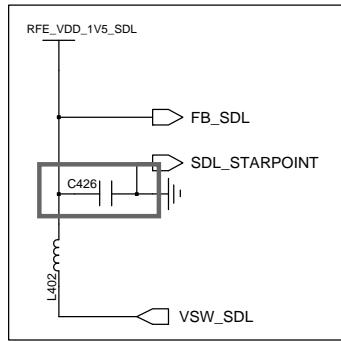
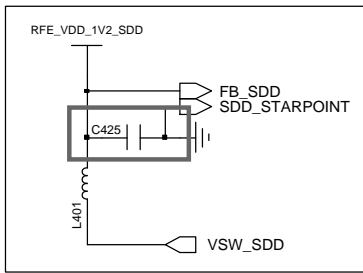




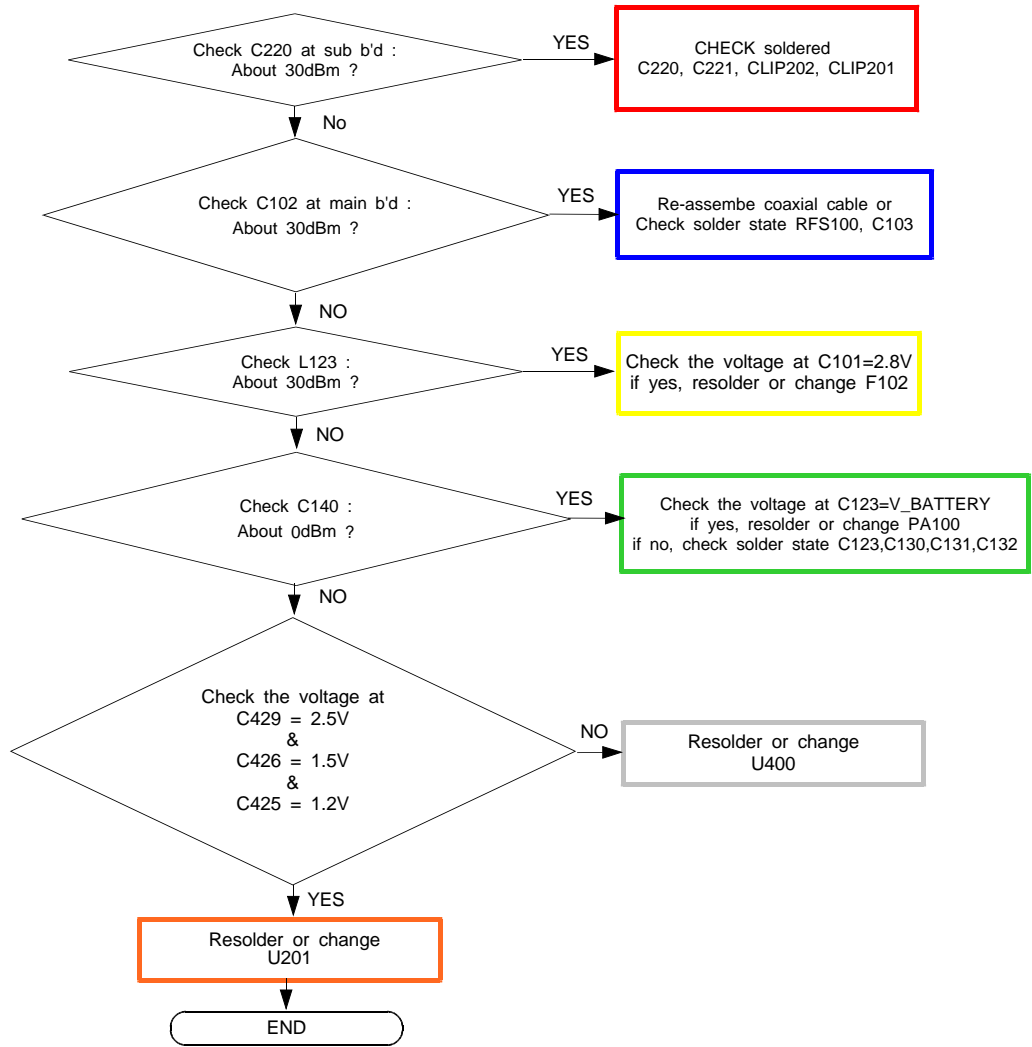
8-3-31. WCDMA2100 / LTE B1 TX





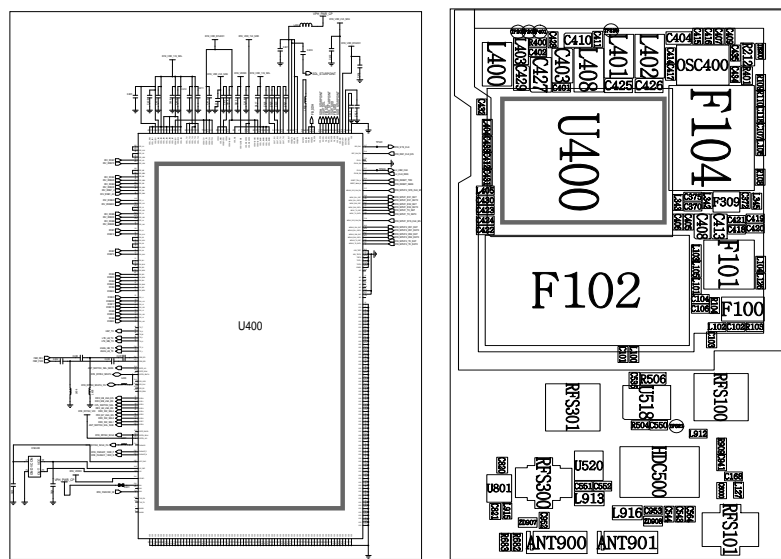
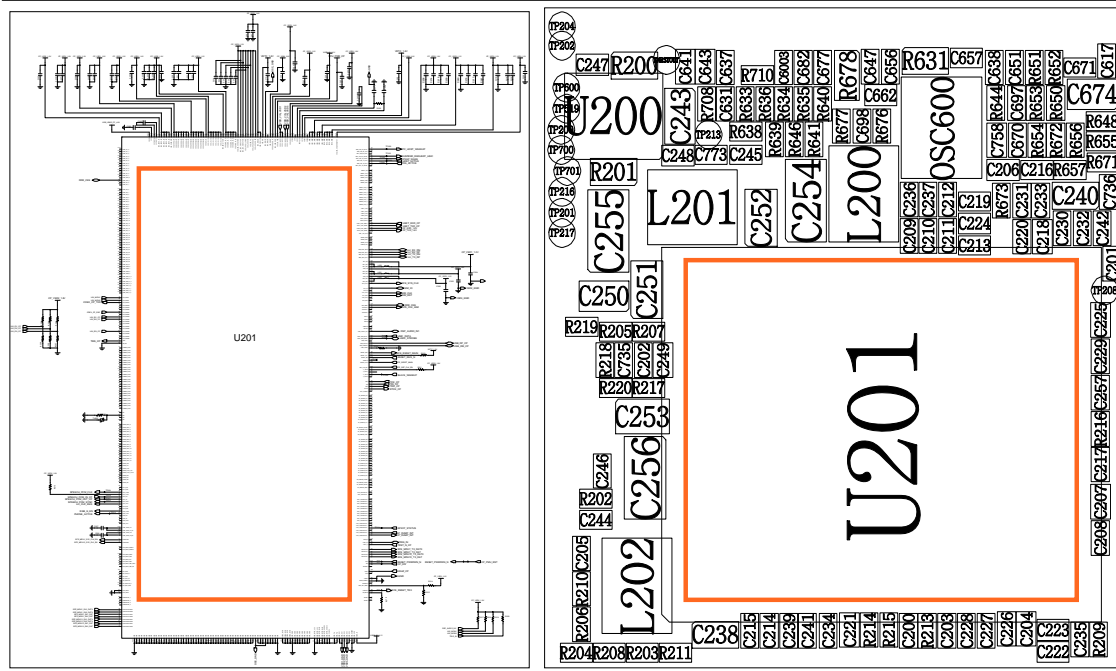
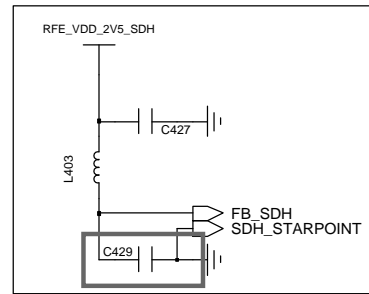
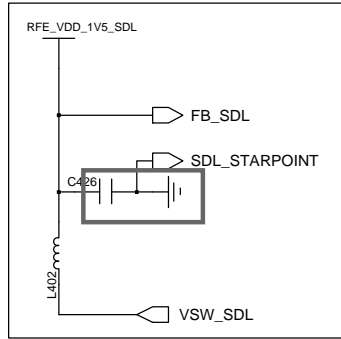
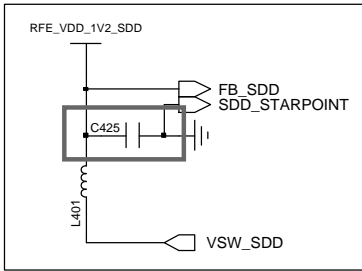


8-3-32. WCDMA850 / LTE B5 TX

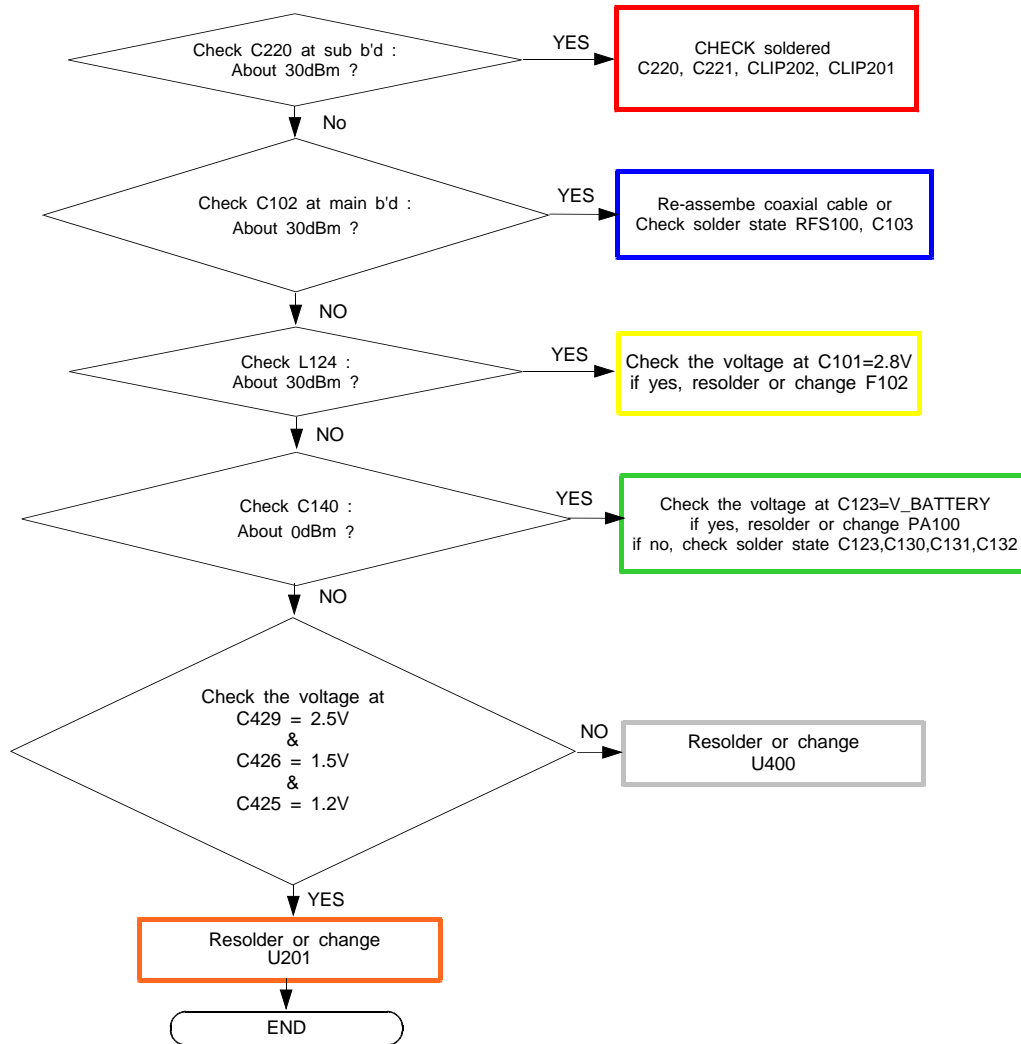


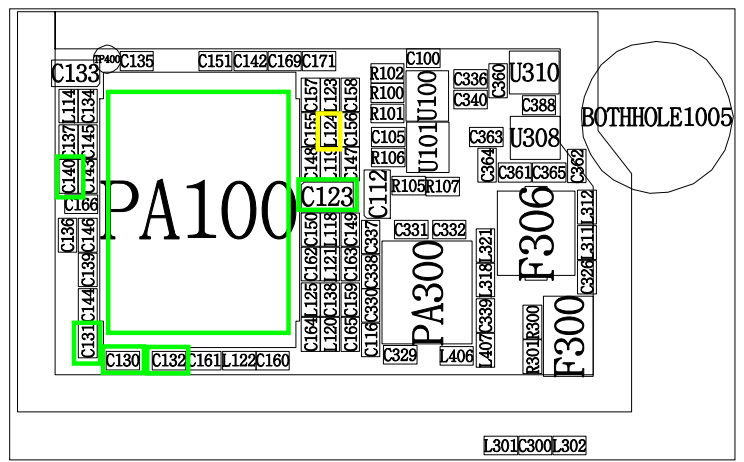
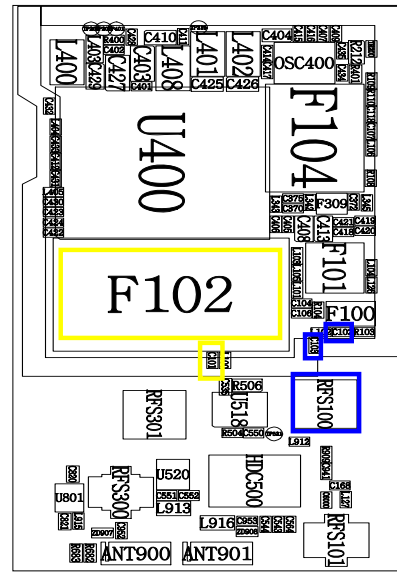
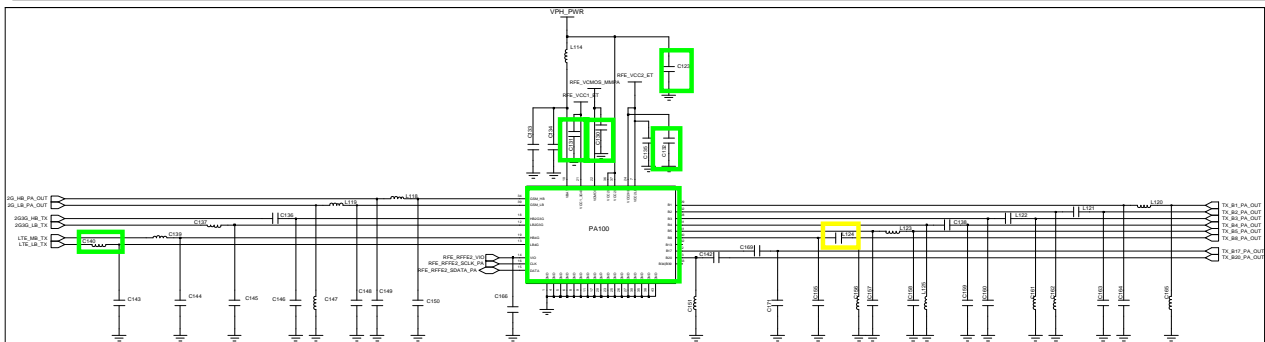
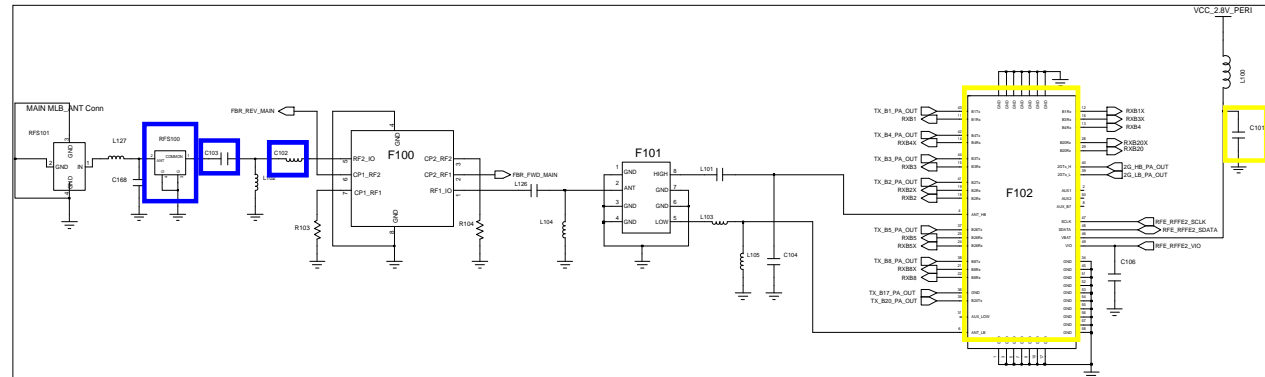
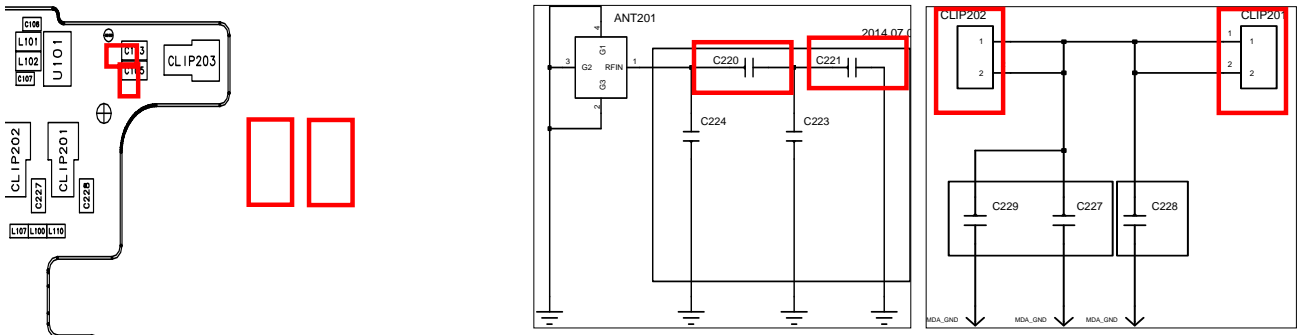


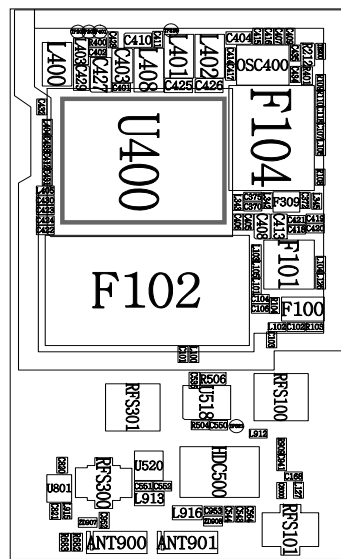
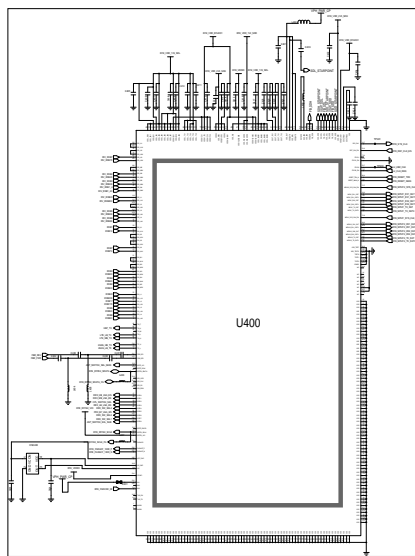
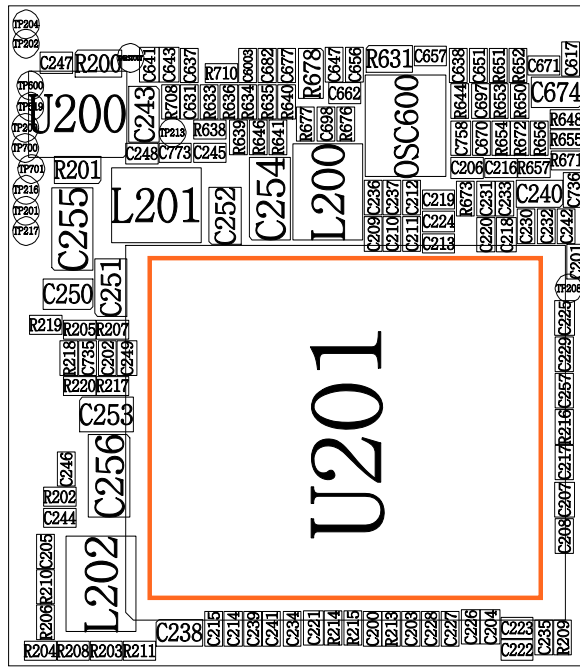
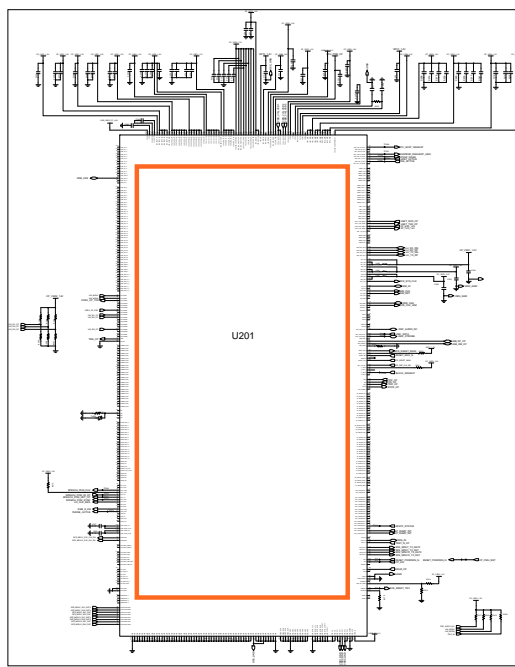
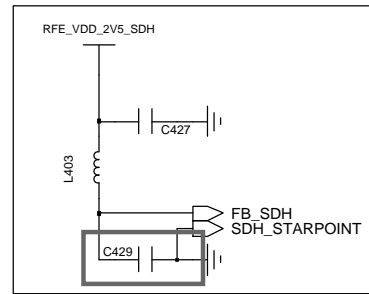
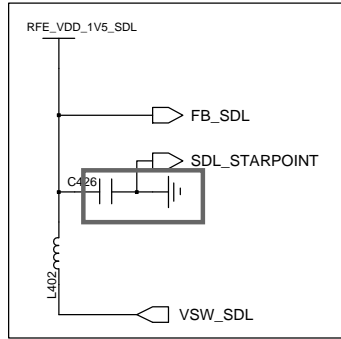
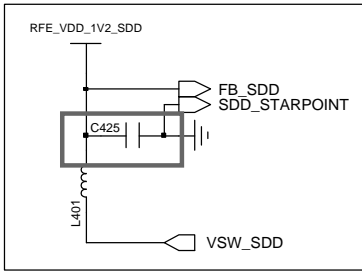




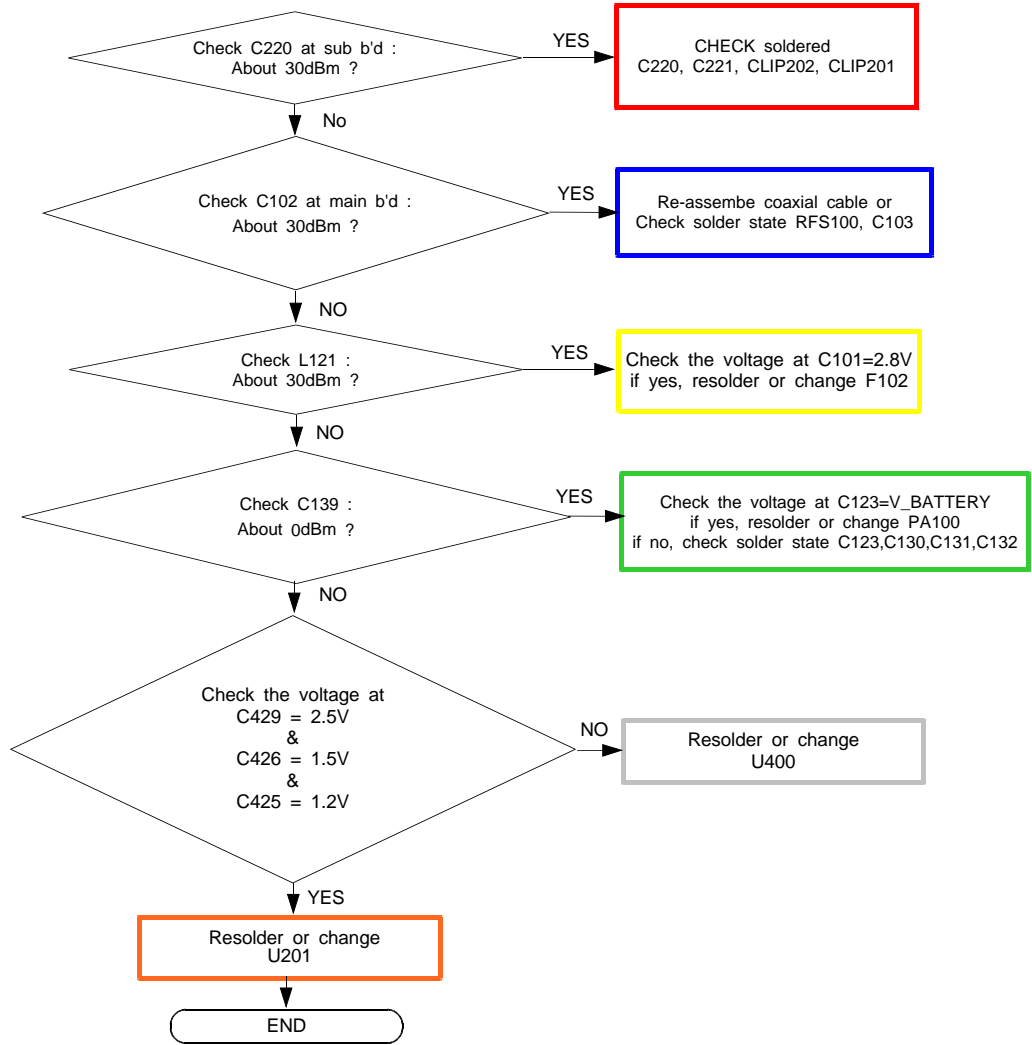
8-3-33. WCDMA900 / LTE B8 TX

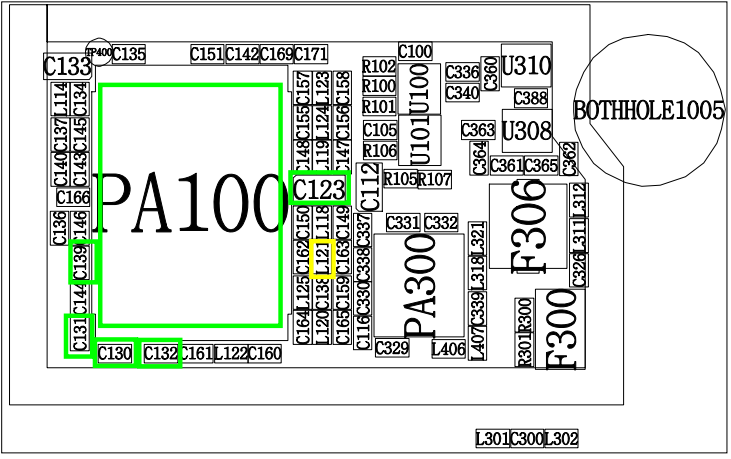
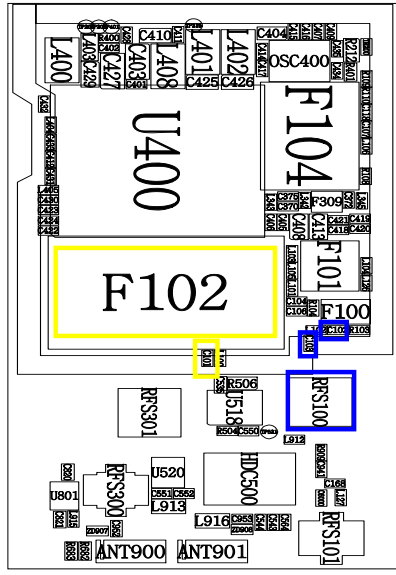
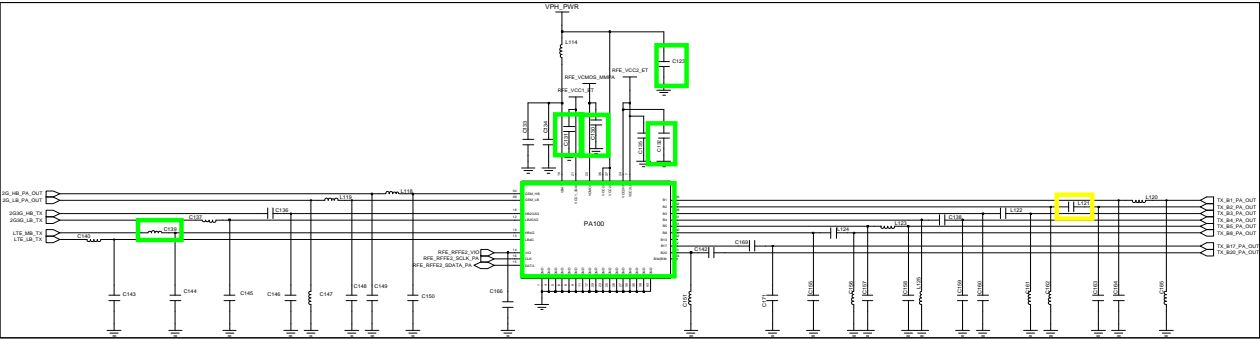
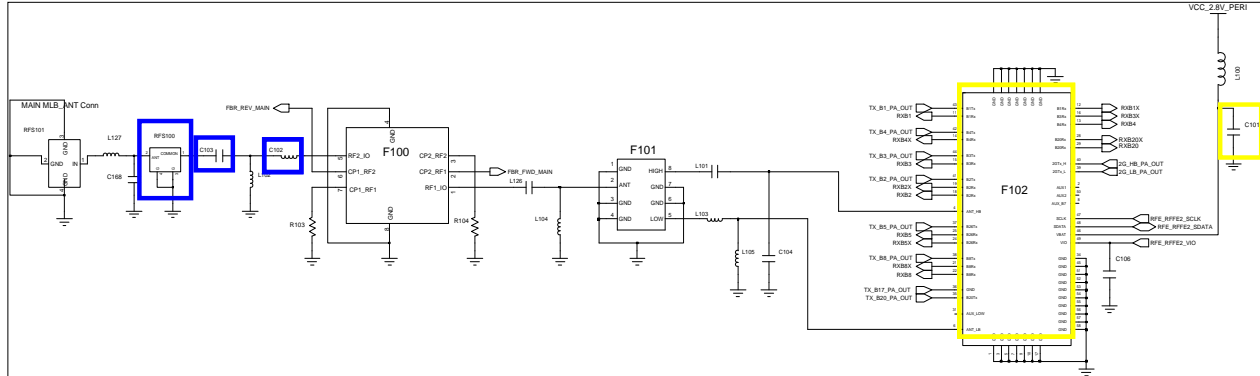
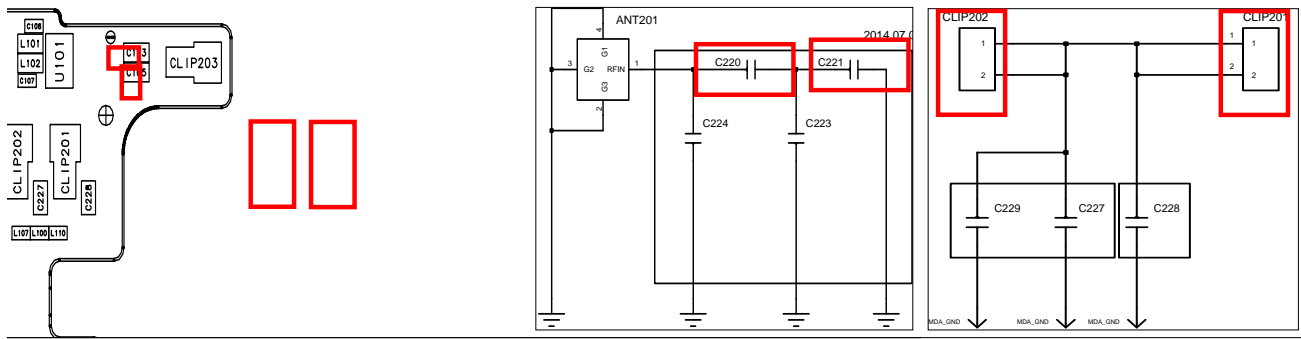


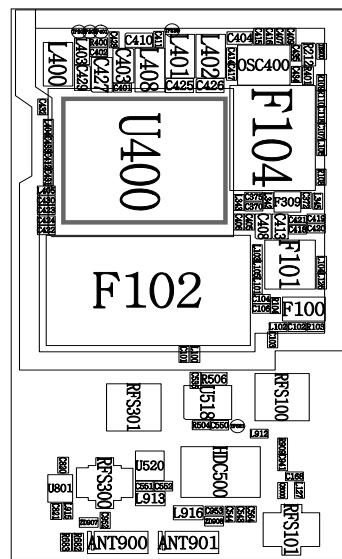
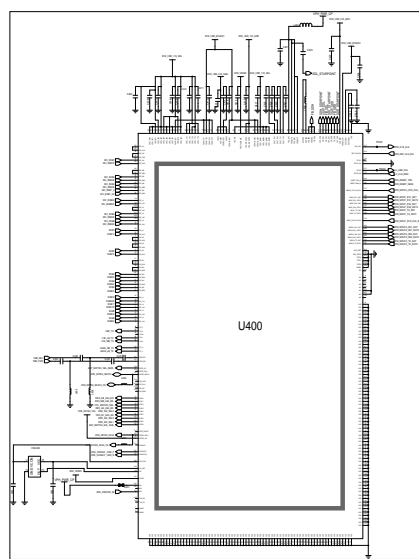
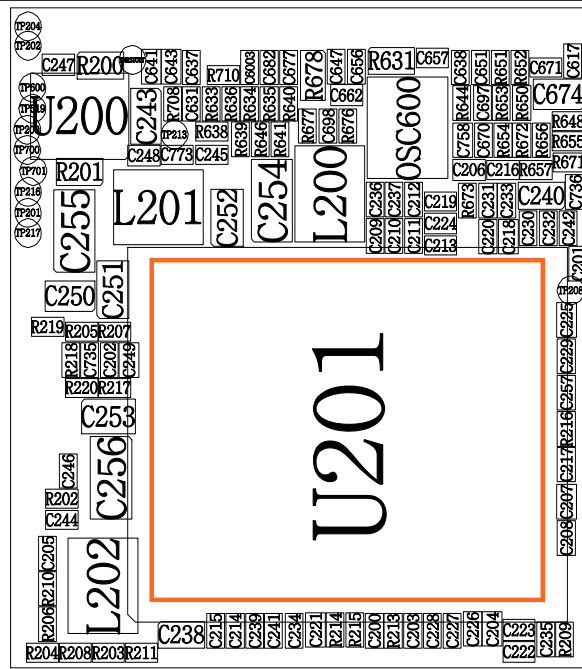
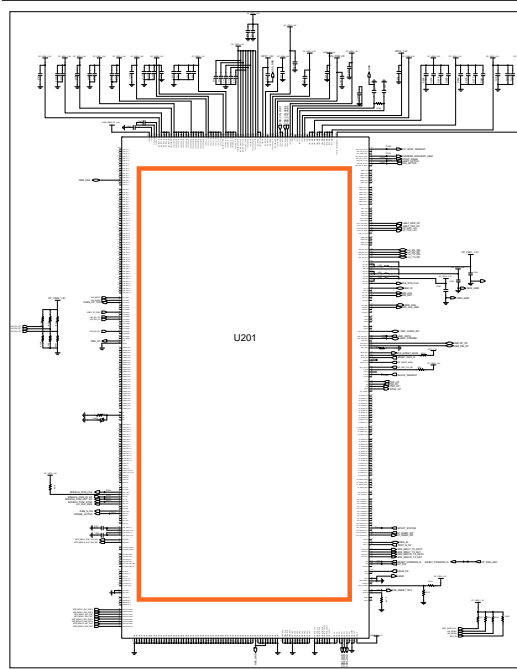
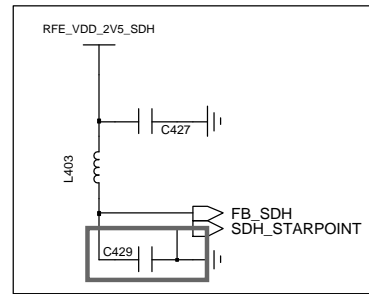
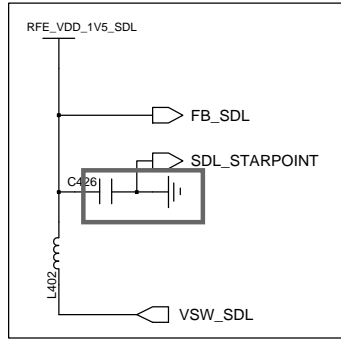
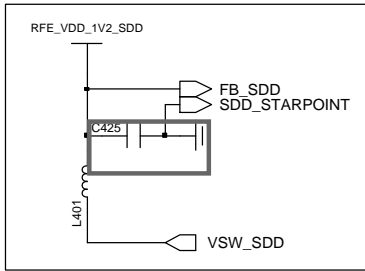




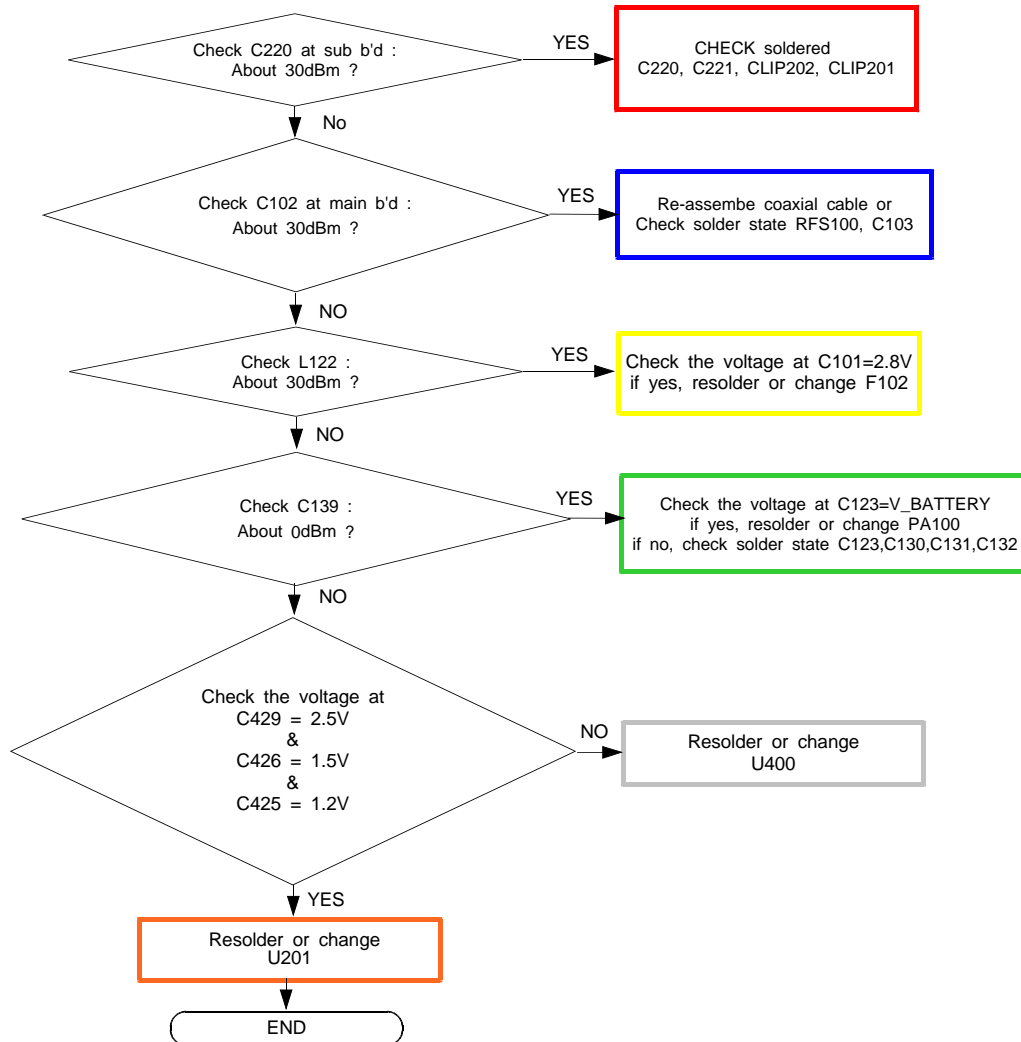
8-3-34. WCDMA1900 TX / LTE B2 TX



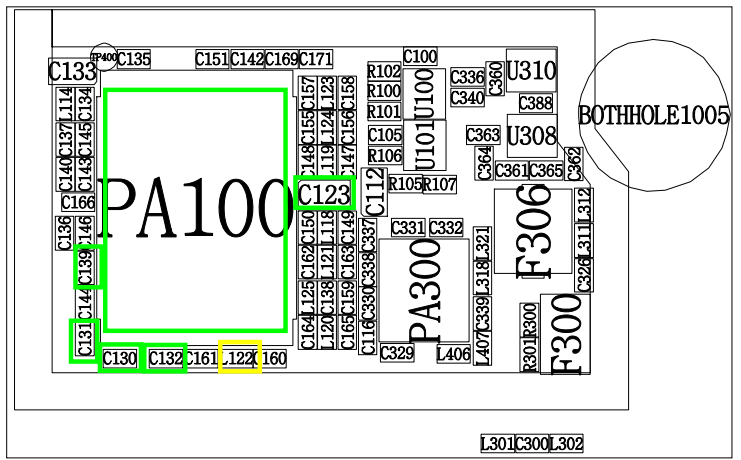
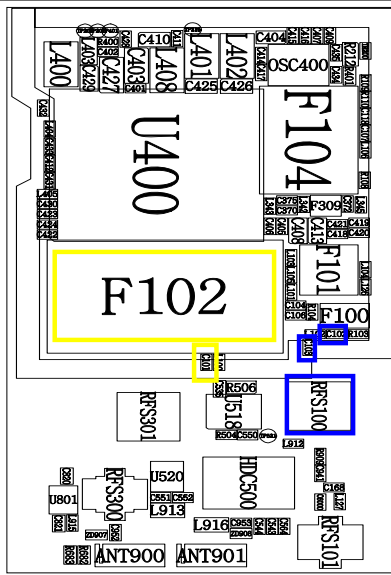
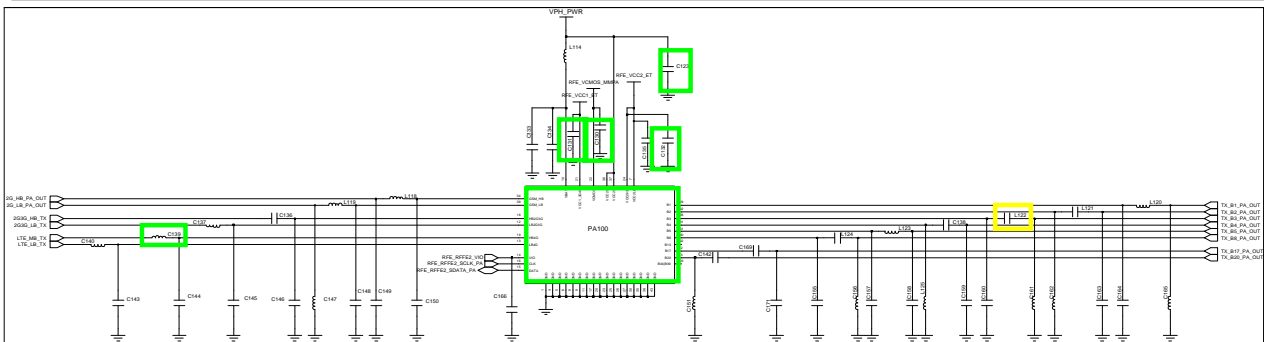
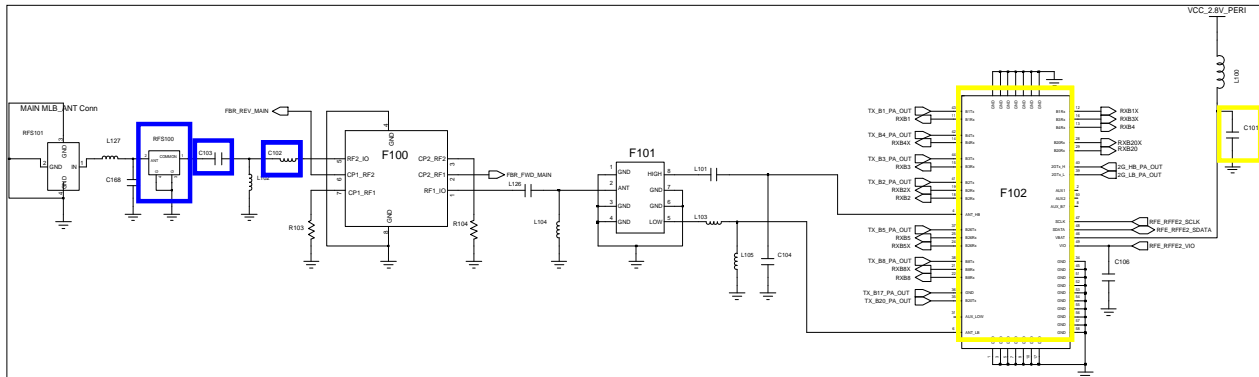
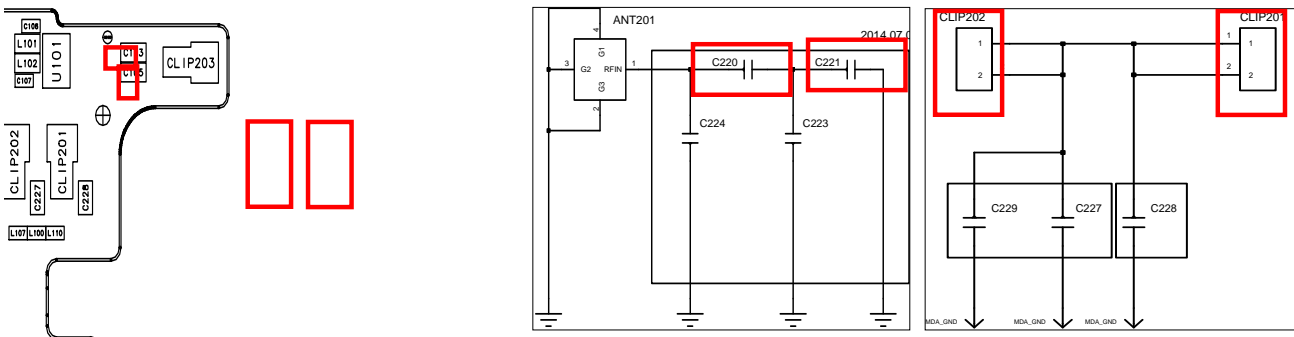


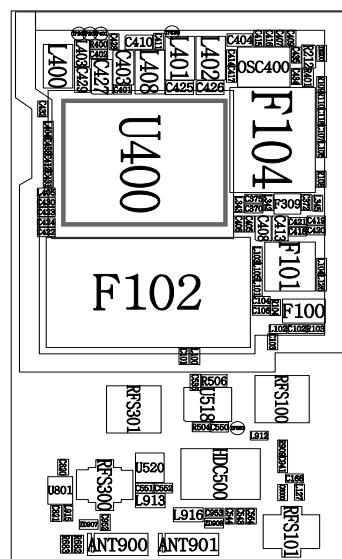
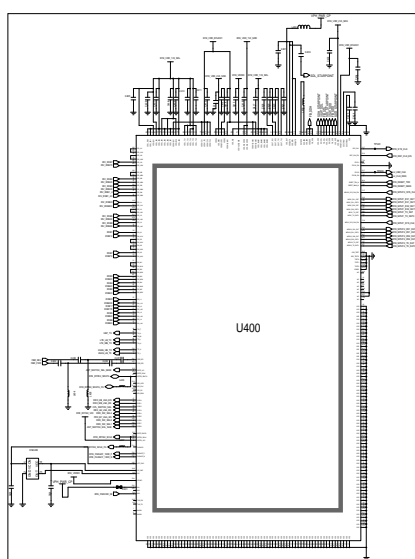
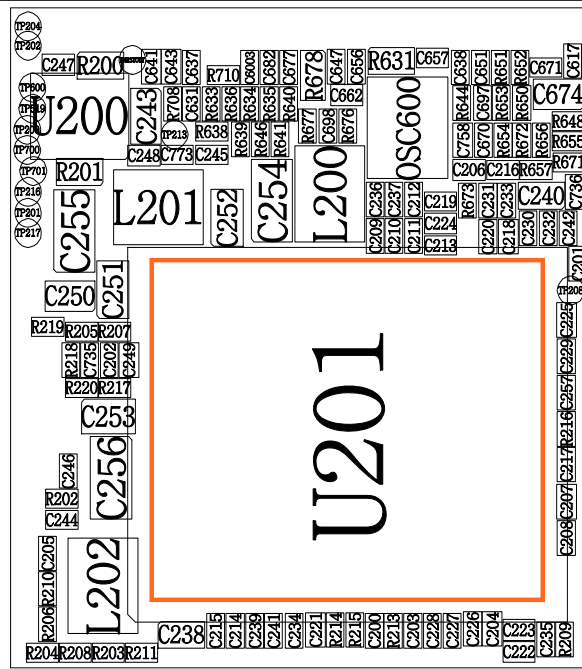
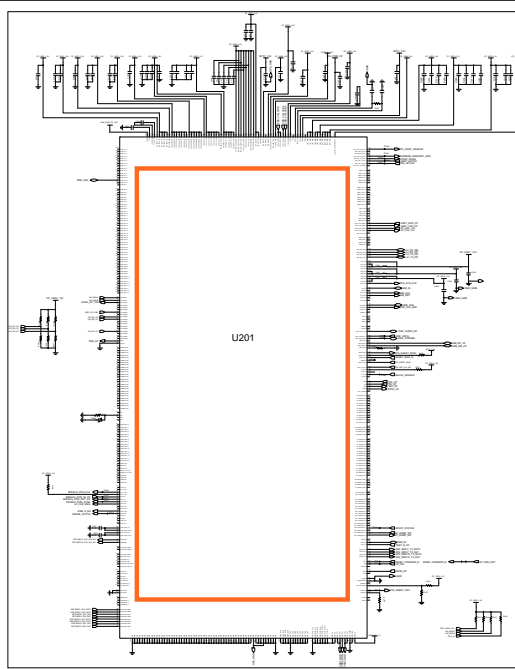
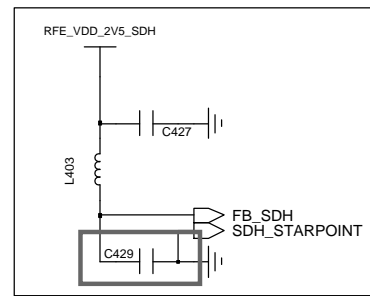
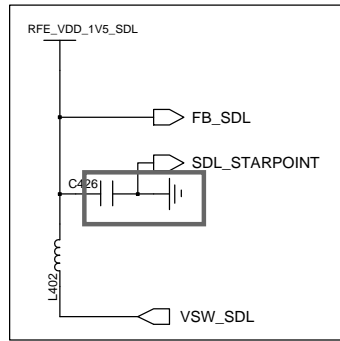
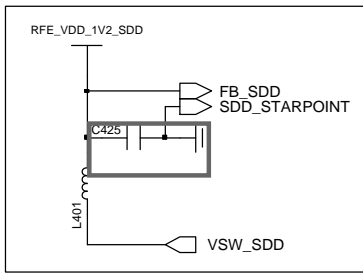


8-3-35. LTE Band3 TX

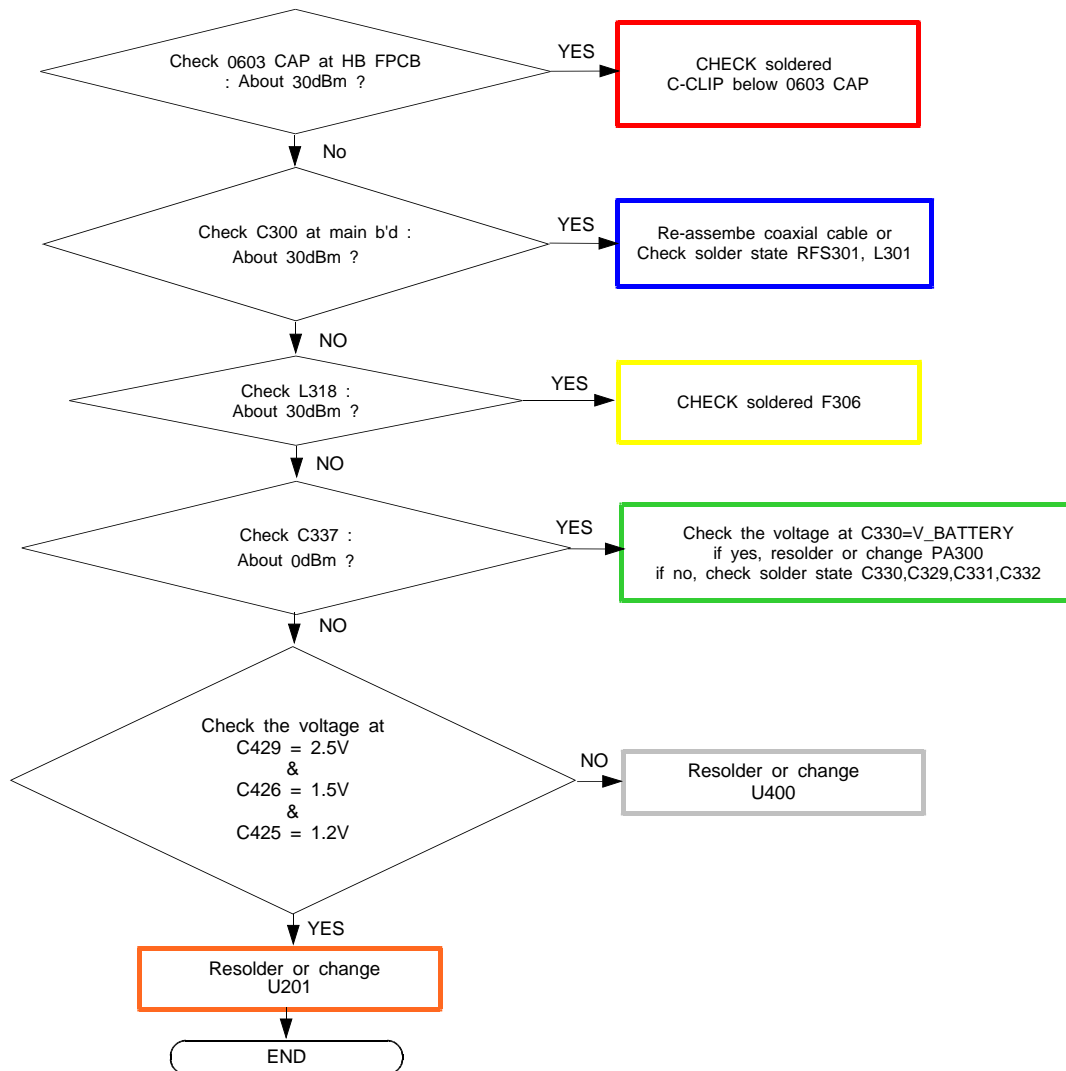


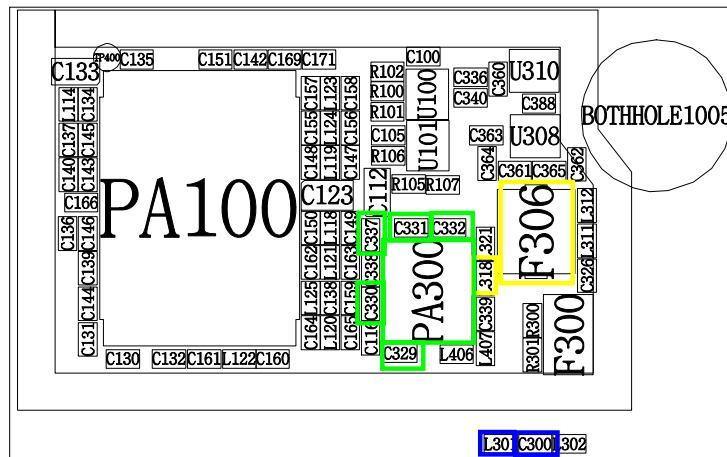
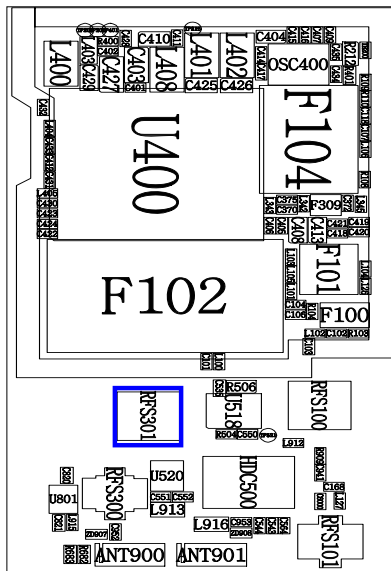
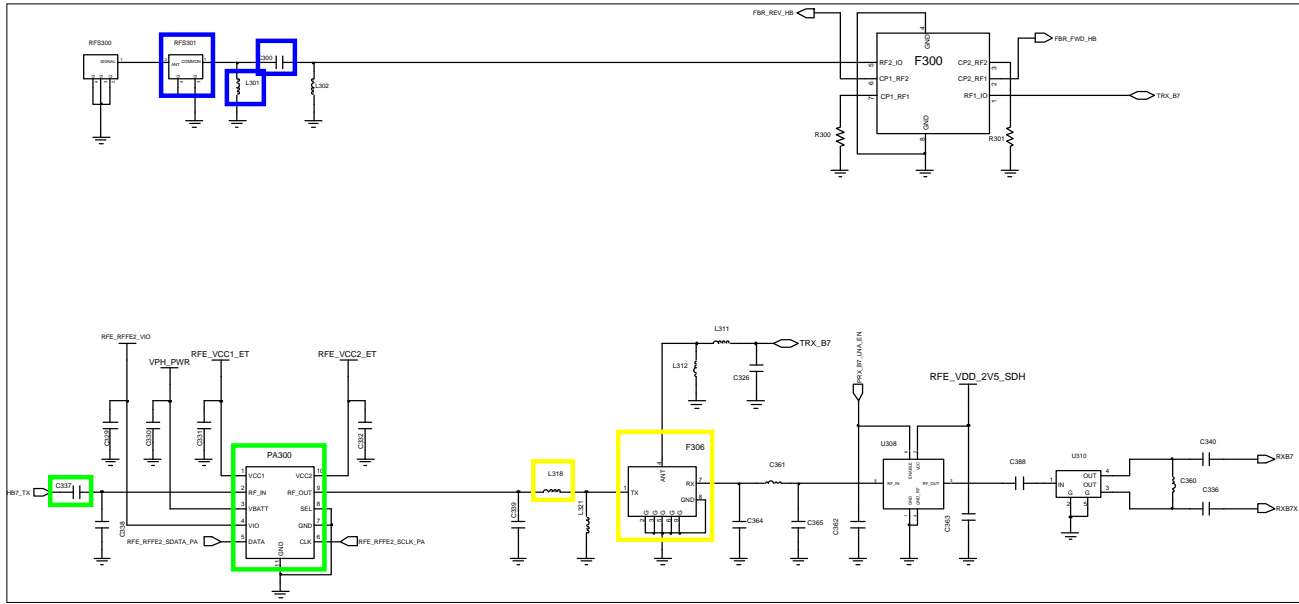
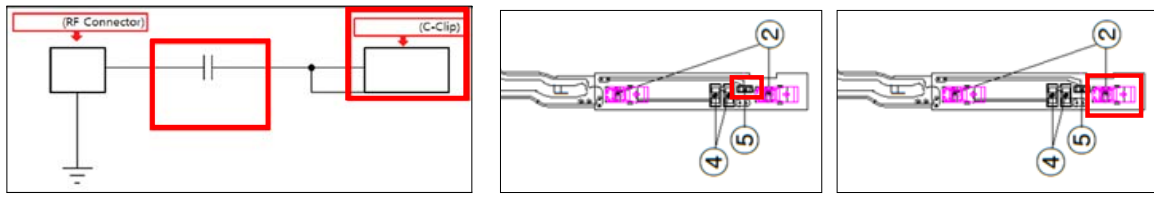


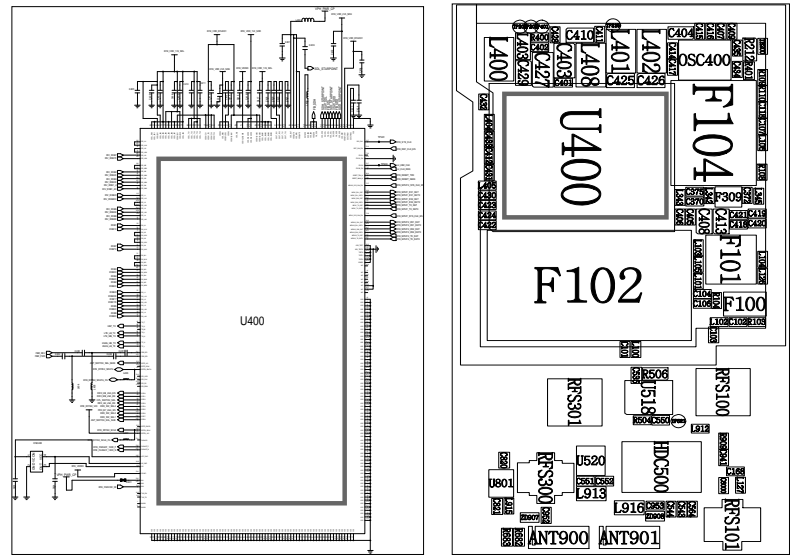
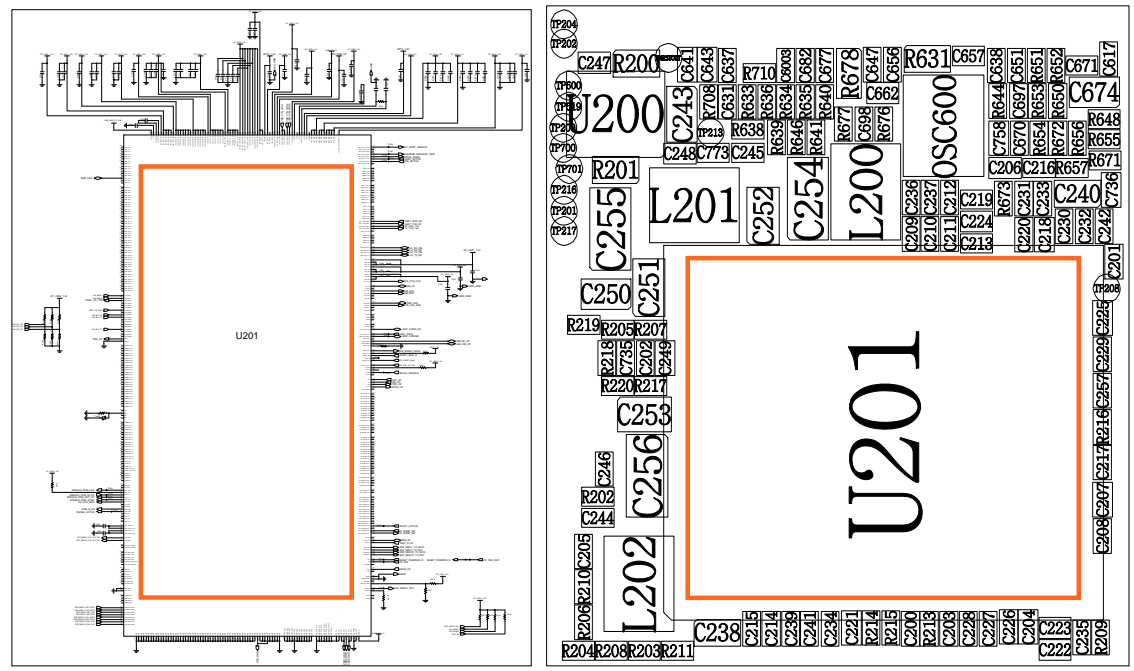
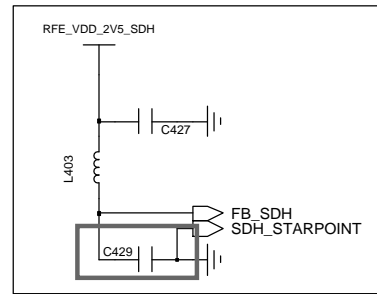
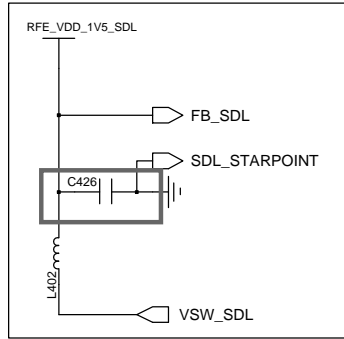
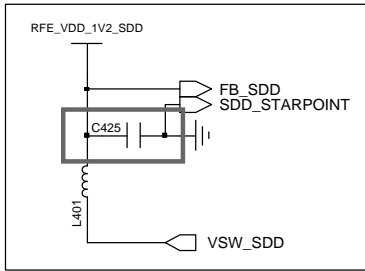




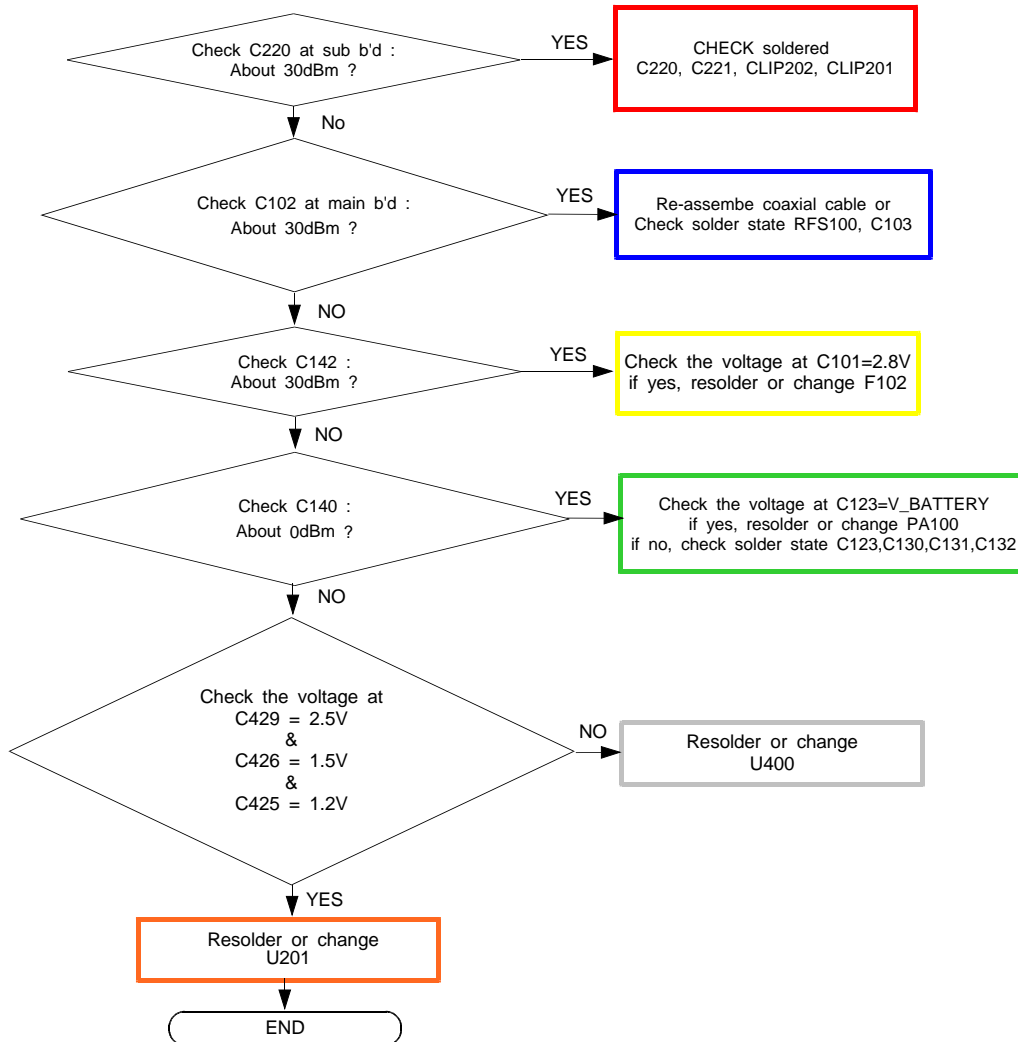
8-3-36. LTE Band7 TX

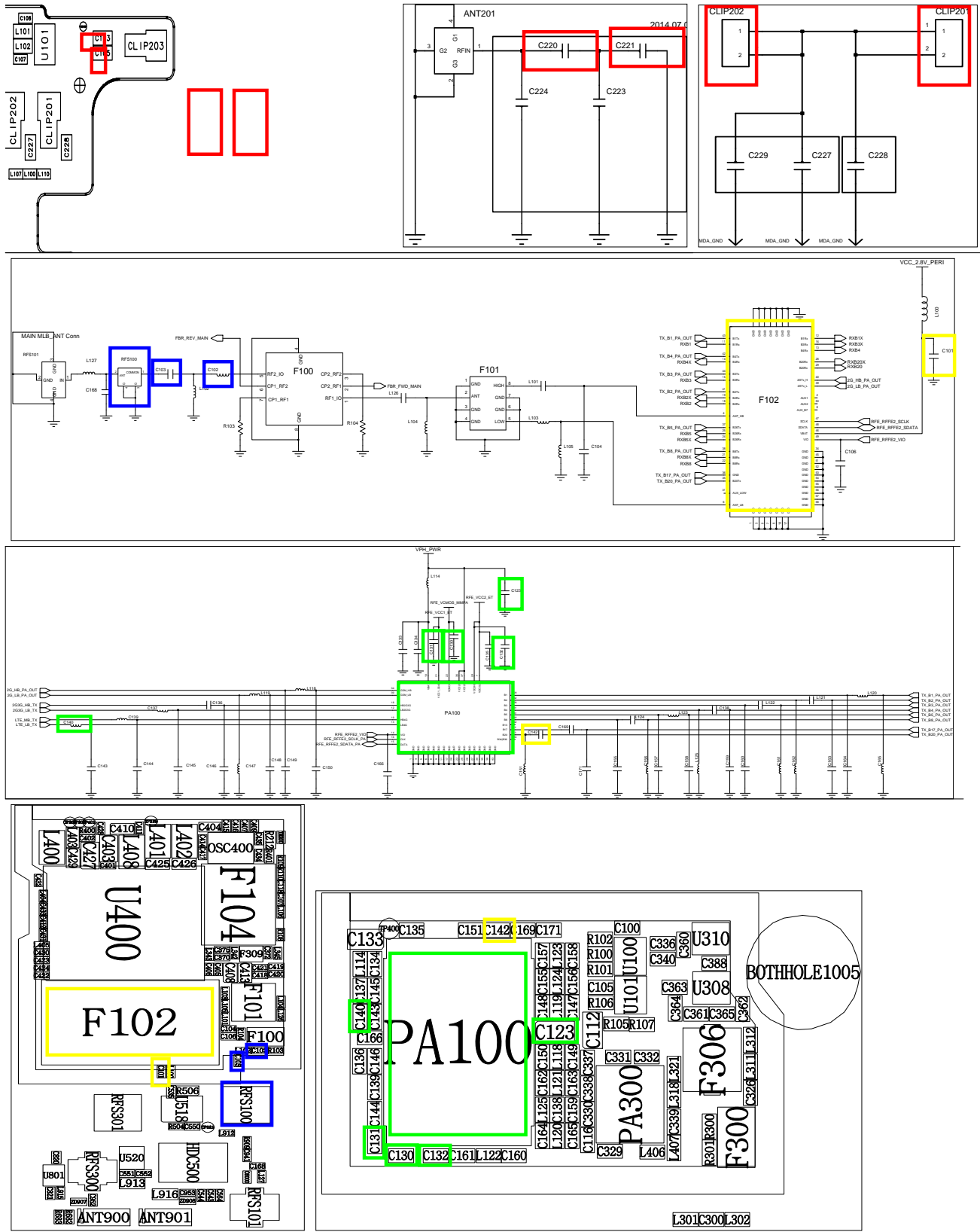


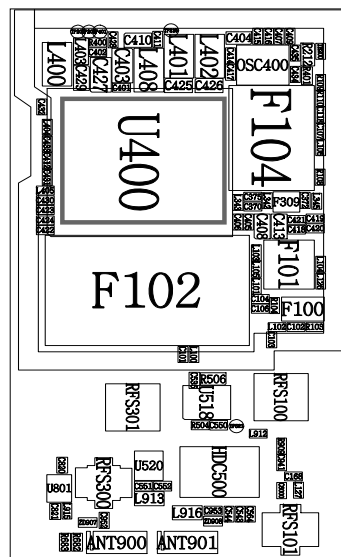
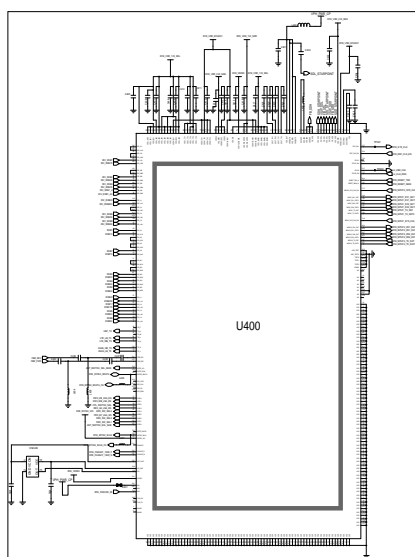
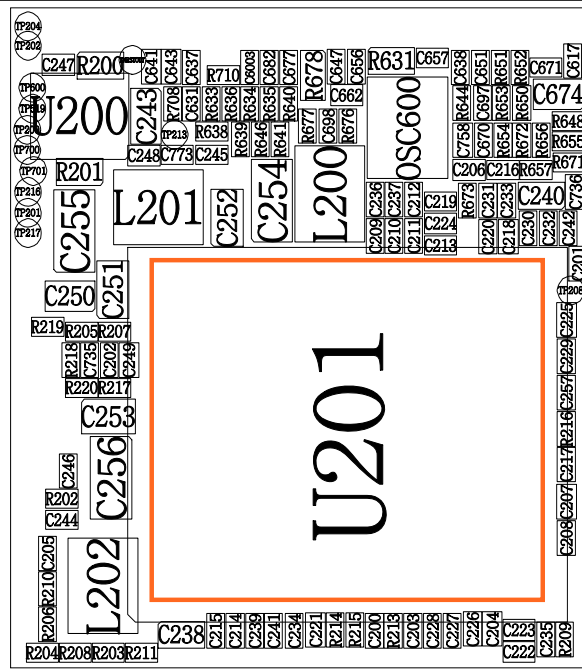
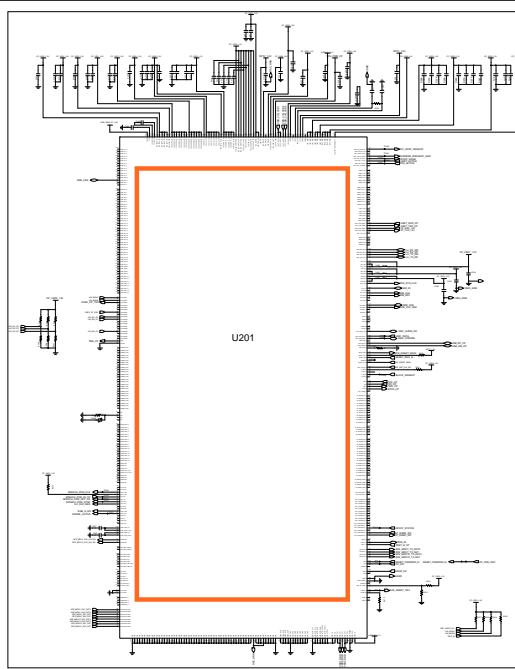
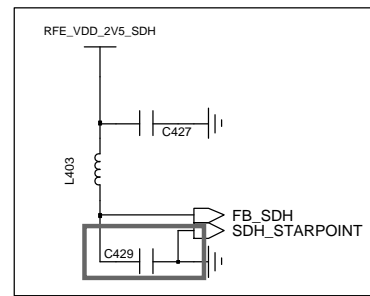
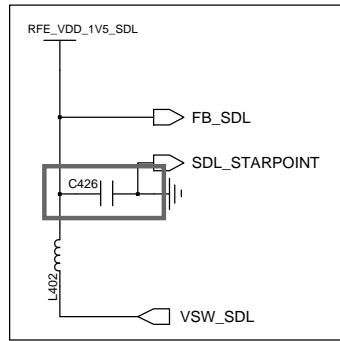
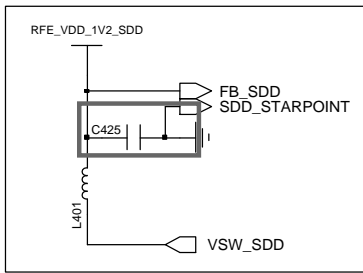




8-3-37. LTE Band20 TX









### 8-4. Service Schematics - NC Point(Top View)

●, □: NC

A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
B	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
C	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
D	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
E	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
F	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
G	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
H	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
I	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
K	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
L	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
N	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
P	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
R	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
T	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
U	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
V	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
W	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
Y	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
AA	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
AB	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
AC	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
AD	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
AE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
AF	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
AG	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
AH	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
AJ	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
AK	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
AL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
AM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
AN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
AP	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
AR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34

UCP600

ABC	D	E	F	G	H	J	K	L	M	N	P	R	T	U	V	W	Y	AA	AB	AC	AD	AE	AF	AG	AH
20	DUMMY BALL	VSD1_SW	RESERV ED.4	RESERV ED.4	VSD1_EM	VSD1_EM	VSD1_EM	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	DUMMY BALL
19	DUMMY BALL	VSD1_SW	RESERV ED.2	RESERV ED.1	VSD1_VS	VSD1_VS	VSD1_VS	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	DUMMY BALL
18	DUMMY BALL	VSD1_SW	VSS	HW_MON	HW_MON	HW_MON	HW_MON	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	DUMMY BALL
17	DUMMY BALL	VSD1_SW	VSS	HW_MON	HW_MON	HW_MON	HW_MON	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	DUMMY BALL
16	DUMMY BALL	VSD1_SW	VSS	VSS	VSS	VSS	VSS	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	DUMMY BALL
15	DUMMY BALL	VSD1_SW	RTC_ALU	HW_MON	HW_MON	HW_MON	HW_MON	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	DUMMY BALL
14	DUMMY BALL	VSD1_SW	VSS	RESET_B	RESET_B	RESET_B	RESET_B	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	DUMMY BALL
13	DUMMY BALL	VSD1_SW	VSS	RESET_B	RESET_B	RESET_B	RESET_B	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	DUMMY BALL
12	DUMMY BALL	VSD1_SW	VSS	OFF_N	OFF_N	OFF_N	OFF_N	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	DUMMY BALL
11	DUMMY BALL	VSD1_SW	M2	RESET_A	RESET_A	RESET_A	RESET_A	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	DUMMY BALL
10	DUMMY BALL	VSD1_SW	ON	RESET_A	RESET_A	RESET_A	RESET_A	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	DUMMY BALL
9	DUMMY BALL	VSD1_SW	M3	RESET_A	RESET_A	RESET_A	RESET_A	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	DUMMY BALL
8	DUMMY BALL	VSD1_SW	USP3_R	USP3_R	USP3_R	USP3_R	USP3_R	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	DUMMY BALL
7	DUMMY BALL	VSD1_SW	USP3_R	USP3_R	USP3_R	USP3_R	USP3_R	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	DUMMY BALL
6	DUMMY BALL	VSD1_SW	TRG_IN	TRG_IN	TRG_IN	TRG_IN	TRG_IN	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	DUMMY BALL
5	DUMMY BALL	VSD1_SW	TRST_P	TRST_P	TRST_P	TRST_P	TRST_P	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	DUMMY BALL
4	DUMMY BALL	VSD1_SW	TPAU_TR	TPAU_TR	TPAU_TR	TPAU_TR	TPAU_TR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	DUMMY BALL
3	DUMMY BALL	VSD1_SW	TPAU_TR	TPAU_TR	TPAU_TR	TPAU_TR	TPAU_TR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	DUMMY BALL
2	DUMMY BALL	VSD1_SW	TPAU_TR	TPAU_TR	TPAU_TR	TPAU_TR	TPAU_TR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	DUMMY BALL
1	DUMMY BALL	VSD1_SW	TPAU_TR	TPAU_TR	TPAU_TR	TPAU_TR	TPAU_TR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	TD_SDR	DUMMY BALL
0	ABC																								

U201

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
A	●	VDD_RPH	VSS	TQ_M	TQ_T	VSS				VDDL_TX1	FBR_RF1	VSS	FBR_RF2	VDD_BAT	VDD_BAT	SW1_SD	VSS_SDH	●	A
B	GPO5	VDD_RFL	TQ_X	TQ_H	TQ_L	VSS		VSS	VSS	VSS	VSS	VSS	VSS	CEXT_PMU	FB_SDP	VDD_SD	SW2_SD	VDD_BAT	B
C	VDD_H1_T	VSS	VSS	VSS	VSS	VSS	VSS	TP_L	VSS	TP_H	PADA_CS	VDD_H1_T	VDDL_MA1			VDD_SD	VSS	SW_SDL	C
D	VDDL_RX1	VSS				VDDL_TX2	VDD_H2	VDD_H2	VSS	CEXT_TX2	PADA_CF_N	PADA_CF_P	VSS	CEXT_PMU	VSS		FB_SDL	VSS_SDL	D
E	RX_L2	VSS	VSS	GPO4	VSS	VSS	VSS	VSS	VSS	VDD_H1_T	VSS	VDD_H1_T	RFFE_VIO	RFFE_SCL	RFFE_SDA		VSS_SDD	SW_SDD	E
F	RX_L2	RX_L1X	VSS		VDDL_TX4		VDDL_TX5	VSS	VDDL_TX3	VSS	VSS	VSS	RFFE_2_VI	RFFE_2_SC	RFFE_2_SD		FB_DO	VDD_BAT	F
G	RX_L3	RX_L1X	VSS	VSS	VSS	GPO2	VSS	VSS	VSS	VSS	VSS	SPL_VSPI	SPL_CLK	SPL_DRW	SPL_SS	VSS	VDD_RPH	VDD_RFL	G
H	RX_L3X	RX_L4	VSS	VSS	GPO3	GPO1	CEXT_TX1	VSS	VSS	VSS	VSS	VSS	GPO6	GPO7	GPO8	VSS	MPHY_RX2	MPHY_RX1	H
J	RX_M5X	RX_L4X	VSS	VSS	VSS	VSS	GPO0	VSS	VDD_H1_T	VSS	VSS	VSS	VDD_DIG	VSS	VSS	VSS	MPHY_RX2	MPHY_RX1	J
K	RX_M5	RX_M4X	VSS	VSS	VDDL_RX1		VDDL_RX8	CEXT_RX2	VSS	VSS	VSS	VSS	VDD_DIG	VSS	VSS	VDD_MA1	MPHY_2_TX	MPHY_TX	K
L	RX_M3X	RX_M4	VSS	VSS	VSS	VDDL_RX0	VSS	VSS	VDDL_RX4	VSS	VSS	VSS	VSS	RESE_T_MA	VDD_TES	VDD_H1_T	MPHY_2_TX	MPHY_TX	L
M	RX_M3	RX_M2X	VSS	VSS	VSS		VSS	VDD_H1_R	VSS	VSS	VSS	VSS	TEST0	RESE_T_TR	VDD_TES	VSS	MPHY_2_RX	MPHY_2_RX	M
N	RX_M1X	RX_M2	VSS	VSS	VDDL_RX7		VSS	VSS	VSS	VSS	VSS	VSS	TEST1	CONF0	VSS	VSS	MPHY_2_RX	MPHY_2_RX	N
P	RX_M1	RX_H1X	VSS	VSS	VDDL_RX5		VDDL_RX6	VSS	VSS	VDDL_RX1	VSS	VSS	TEST2	MI3	VSS	VDD_DIG	MPHY_2_SY	MPHY_SYS	P
R	RX_H2X	RX_H1	VSS	VSS	VSS	VSS	CEXT_RX1	VSS	VSS	VSS	VSS	MI1	MI2	CONF1	VSS	●	FSYS2	REF_CLK	R
T	RX_H2	RX_H3X	VSS	VSS	VDDL_RX3	VSS	VSS	VSS	VSS	VSS	VSS	VSS	VSS	VDD_TV8	VSS	VSS	FSYS2_EN	FSYS1	T
U	RX_H4X	RX_H3	VSS	VSS	VSS	VSS	VSS	VSS	VSS	VSS	VSS	VDDL_RX2	VSS	VDDL_MA1	AFC_DAC	VDD_H1_T	SYS_CLK	FSYS1_EN	U
V	RX_H4	VSS	RD_H2X	RD_H2	RD_M2	RD_M2X	RD_M4	RD_M4X	RD_L4X	RD_L4	RD_L1X	RD_L1	VSS	●	TAS_TX	VDDL_MA1	VSS	XO	V
W	●	RD_H1X	RD_H1	RD_H3X	RD_H3	RD_M3	RD_M3X	RD_M5	RD_M5X	RD_L3X	RD_L3	RD_L2X	RD_L2	●	TAS_RX	XO_SUP	●	●	W

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