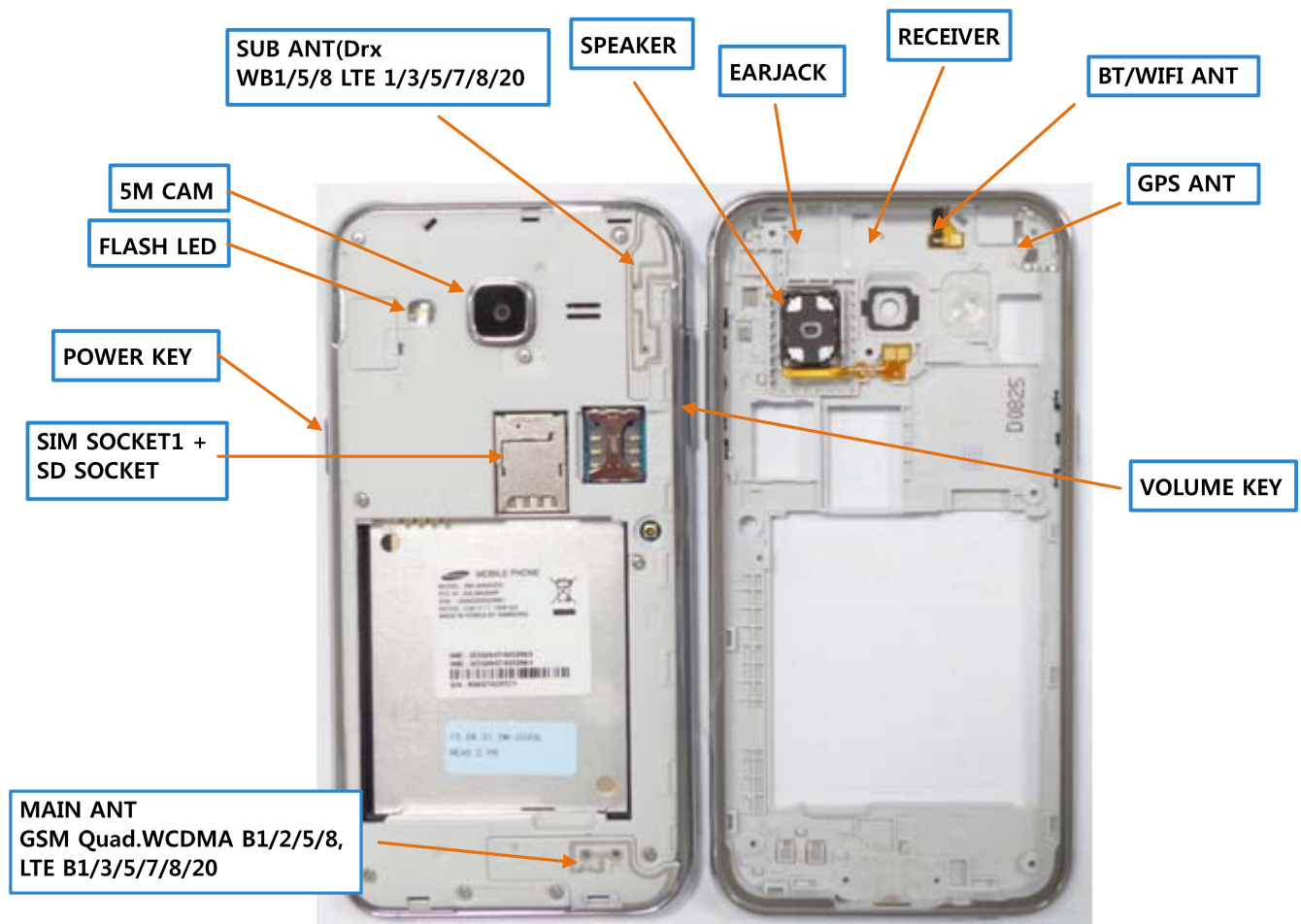

7. Level 2 Repair

7-1. Components on the Rear Case



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7-2. Pre-requisite

	
Tweezers / Disass'y Stick / Screw Driver	Anti-static Gloves
	
Anti-static Mat	Glass Absorber
	
OCTA Disassembly Holder	OCTA Disassembly Upper
	
Ethyl Alcohol	Clean Swab

7-3. Parts which must be changed after repair

BOM Discription	Picture	Remarks
A/S-SVC REPAIR TAPE ALL [GH81-13280A]		
A/S-SVC REPAIR CU SHEET [GH81-13281A]		Replace when repair Front part
A/S-SVC REPAIR CU SHEET ALL [GH81-13345A]		

7-4. Disassembly

1 Disassemble OCTA CAP, OCTA Connector and disassemble OCTA Ass'y and REAR with Jig	2 Uncrew 9 point and disassemble REAR
※ Caution 1) Be care of scratch and time	※ Caution 1) Be care of scratch
3 Disassemble Bracket Ass'y and REAR from bottom side HOOK	4 Uncrew 2 point and disassemble EARJACK Connector, Sub Key, PBA from top side
※ Caution 1) Be care of scratch	※ Caution 1) Be care of connector damage

7-5. Aassembly

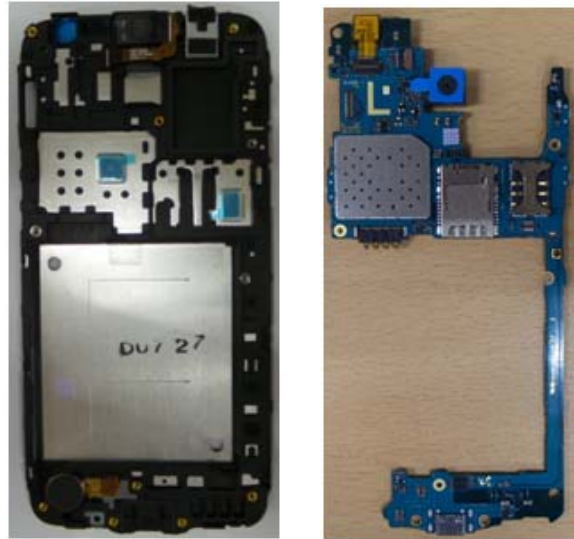
1

Assemble MOTOR, Sub Key, Sub Key Rubber, RCV module on Bracket



2

Place PBA on Bracket Ass'y after lifting Sub Key connector and RCV connector



3

Screw 2 Point and assemble Ear Jack connector and Sub Key



4

Assemble Speaker on REAR



※ **Caution**

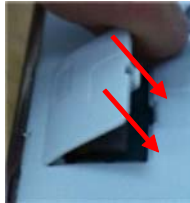
-Torque : 1.3 Kgf ·cm

-Size : 1.4*3.0(6001-001811).

5 Assemble REAR Ass'y and PBA Ass'y from Top side	6 Assemble REAR Ass'y and PBA Ass'y 7 point correctly
	※ Caution 1) Be care of damage and tilt
7 Complete REAR Ass'y after screwing 9 point	8 Attach OCTA Ass'y with REAR Ass'y after removing OCTA release tape
※ Caution -Torque : 1.2 Kgf ·cm -Size : 1.4*3.5(6001-003227)	

9

Assemble OCTA connector and OCTA CAP



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5. MAIN Electrical Parts List

SEC CODE	Design LOC	Description
0401-001110	D5000	DIODE-SWITCHING
0406-001413	ZD5002	DIODE-TVS
0406-001459	U6028,ZD4001	DIODE-TVS
0406-001487	ZD5014	DIODE-TVS
0406-001633	C4046	DIODE-TVS
0406-001642	ZD5009,ZD5010,ZD5012	DIODE-TVS
0406-001648	ZD4000,ZD4002	DIODE-TVS
0406-001675	D4000	DIODE-TVS
0406-001709	ZD5003,ZD5006,ZD5007	DIODE-TVS
0406-001709	ZD5008,ZD5011	DIODE-TVS
0505-002388	U6022	FET-SILICON
0601-003526	LED4000	LED
1001-001870	U2000	IC
1001-001912	U1004	IC
1001-001969	U2006	IC
1001-001975	U2008	IC
1001-001977	U2005	IC
1108-000601	UME5000	MEMORY
1201-003717	U2007	IC
1201-003790	U2004	IC
1201-003873	PAM1001	IC
1201-003989	U2010	IC
1201-003990	U2011	IC
1201-003991	PAM1000	IC
1203-007196	U5001	IC
1203-008251	U6001	IC
1203-008288	U2003	IC
1203-008295	U6025	IC
1203-008326	U6003	IC
1203-008490	U6000	IC
1203-008539	U4002	IC
1203-008596	U4001	IC
1205-005220	U2012	IC
1205-005239	U5002	IC
1205-005310	U2001	IC
1205-005315	U4000	IC

1205-005341	UCP3000	IC
1205-005387	U1007	IC
1209-002043	U1000	IC
1209-002275	U6004	IC
1209-002335	U701	IC
1404-001724	TH1000,TH3000,TH4000	THERMISTOR
1405-001183	ZD5000,ZD5001	VARISTOR
2007-000148	R6019	R-CHIP
2007-001284	R4024	R-CHIP
2007-007190	R5002,R5011	R-CHIP
2007-007315	R3007	R-CHIP
2007-007798	R4019	R-CHIP
2007-008043	R1000	R-CHIP
2007-008045	R1016,R3050,R3051	R-CHIP
2007-008045	R3052,R3053,R3054	R-CHIP
2007-008045	R3055,R3056,R3057	R-CHIP
2007-008048	R2004	R-CHIP
2007-008052	R5023	R-CHIP
2007-008055	R5004,R5038,R6005	R-CHIP
2007-008210	R1004,R3013	R-CHIP
2007-008419	R3004,R3031,R4027	R-CHIP
2007-008419	R5003,R6045,R6046	R-CHIP
2007-008483	R6006,R6007,R6016	R-CHIP
2007-008483	R6022	R-CHIP
2007-008486	R4005,R4009,R4018	R-CHIP
2007-008486	R4022,R4025	R-CHIP
2007-008516	R2007,R3000,R3001	R-CHIP
2007-008516	R3003,R3009,R3014	R-CHIP
2007-008516	R3020,R3028,R3029	R-CHIP
2007-008516	R3035,R3040,R3059	R-CHIP
2007-008516	R4013,R5010,R5017	R-CHIP
2007-008516	R5039,R5042,R6013	R-CHIP
2007-008516	R6014,R6015,R6018	R-CHIP
2007-008516	R6039	R-CHIP
2007-008531	R2001	R-CHIP
2007-008582	R1003,R1005	R-CHIP
2007-008587	R1007,R6041,R6050	R-CHIP

2007-008588	R3002,R3005,R3015	R-CHIP
2007-008588	R3018,R3019,R3021	R-CHIP
2007-008588	R3023,R3025,R3034	R-CHIP
2007-008588	R3037,R6023,R6024	R-CHIP
2007-008588	R6025,R6026	R-CHIP
2007-008774	R4012,R4014	R-CHIP
2007-008788	R3016,R5043,R5044	R-CHIP
2007-008798	R4020	R-CHIP
2007-008806	R1009	R-CHIP
2007-009084	R5025,R5035	R-CHIP
2007-009111	R2000,R6027,R6028	R-CHIP
2007-009157	R1001,R3027,R4016	R-CHIP
2007-009157	R4030,R5036,R5037	R-CHIP
2007-009170	R6021	R-CHIP
2007-009171	R3012,R3032,R5029	R-CHIP
2007-009212	R4031	R-CHIP
2007-009801	R4004	R-CHIP
2007-009879	R5016,R6037	R-CHIP
2007-009920	R3026,R5020	R-CHIP
2007-010856	R4029	R-CHIP
2007-011043	C1022,R3036	R-CHIP
2007-011648	R4011	R-CHIP
2203-001153	C4110	C-CERAMIC,CHIP
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2203-005736	C2111,C2113,C2120	C-CERAMIC,CHIP
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2203-005777	C2133,L1012,L1457	C-CERAMIC,CHIP
2203-005789	C1444,L1020,L1459	C-CERAMIC,CHIP
2203-005792	C2062,L1446	C-CERAMIC,CHIP
2203-005806	C3004,C3024,C4005	C-CERAMIC,CHIP
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2203-006194	C1003	C-CERAMIC,CHIP
2203-006305	C1139,C2005,C2007	C-CERAMIC,CHIP
2203-006305	C2011,C2028,C2101	C-CERAMIC,CHIP
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2203-007165	C6043,C6044,C6046	C-CERAMIC,CHIP
2203-007165	C6047	C-CERAMIC,CHIP
2203-007194	C1080	C-CERAMIC,CHIP
2203-007210	C2040,C6048	C-CERAMIC,CHIP
2203-007240	C4055,C4060	C-CERAMIC,CHIP
2203-007269	C6023	C-CERAMIC,CHIP
2203-007271	C3008,C3014,C3018	C-CERAMIC,CHIP
2203-007271	C3035,C3039,C4059	C-CERAMIC,CHIP
2203-007271	C4077,C5025,C6000	C-CERAMIC,CHIP
2203-007271	C6032,C6045	C-CERAMIC,CHIP
2203-007279	C1050	C-CERAMIC,CHIP
2203-007369	C5017,C5032,C5044	C-CERAMIC,CHIP
2203-007369	C5045,C6003	C-CERAMIC,CHIP
2203-007392	C4042	C-CERAMIC,CHIP
2203-007393	C4041	C-CERAMIC,CHIP
2203-007449	C1051,C2041,C2063	C-CERAMIC,CHIP
2203-007449	C2064,C2065,C2067	C-CERAMIC,CHIP
2203-007449	C2068,C2146,C2147	C-CERAMIC,CHIP
2203-007449	C2148,C2149,C3020	C-CERAMIC,CHIP
2203-007449	C3030,C3032,C3037	C-CERAMIC,CHIP
2203-007449	C4078,C4085,C4111	C-CERAMIC,CHIP
2203-007449	C4112	C-CERAMIC,CHIP
2203-007474	C1011,C1017,C1021	C-CERAMIC,CHIP
2203-007474	C3006,C3042,C4023	C-CERAMIC,CHIP
2203-007474	C4033,C6053,L1456	C-CERAMIC,CHIP
2203-007775	C4071	C-CERAMIC,CHIP
2203-007781	C6020,C6021	C-CERAMIC,CHIP
2203-007795	C4018,C4079,C4081	C-CERAMIC,CHIP
2203-007795	C4084,C4088,C6024	C-CERAMIC,CHIP
2203-007795	C6025,C6026,C6027	C-CERAMIC,CHIP
2203-007796	C1012,C1013,C1015	C-CERAMIC,CHIP
2203-007796	C1019,C1460,C4076	C-CERAMIC,CHIP
2203-007796	C4083,C4086,C4087	C-CERAMIC,CHIP

2203-007796	C5040,C6004,C6018	C-CERAMIC,CHIP
2203-007796	C6022,C6030,C6058	C-CERAMIC,CHIP
2203-008097	C5055,C5056	C-CERAMIC,CHIP
2203-008123	C4000,C4068	C-CERAMIC,CHIP
2203-008242	C2014,C2060,C2061	C-CERAMIC,CHIP
2203-008242	C4008,C4009,C4012	C-CERAMIC,CHIP
2203-008242	C4016,C4017,C4019	C-CERAMIC,CHIP
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2203-008242	C4028,C4035,C4036	C-CERAMIC,CHIP
2203-008242	C4038,C4039,C4044	C-CERAMIC,CHIP
2203-008242	C4049,C4056,C4061	C-CERAMIC,CHIP
2203-008242	C4062,C4063,C4064	C-CERAMIC,CHIP
2203-008242	C4065,C4069,C4070	C-CERAMIC,CHIP
2203-008242	C4072,C4092,C4093	C-CERAMIC,CHIP
2203-008242	C4097,C4108,C5016	C-CERAMIC,CHIP
2203-008242	C5047,C5049	C-CERAMIC,CHIP
2203-008243	C3040,C3041	C-CERAMIC,CHIP
2203-008312	C4022,C6059	C-CERAMIC,CHIP
2203-008470	C1071	C-CERAMIC,CHIP
2203-008654	C4075	C-CERAMIC,CHIP
2203-009223	C1077	C-CERAMIC,CHIP
2703-001231	L4005	INDUCTOR
2703-002267	L1030	INDUCTOR
2703-002955	C1414	INDUCTOR
2703-002959	L2023,L5013	INDUCTOR
2703-003476	L5001	INDUCTOR
2703-003686	L4000	INDUCTOR
2703-003878	L5000	INDUCTOR
2703-004000	L1000	INDUCTOR
2703-004012	C1076,C2074,C2078	INDUCTOR
2703-004012	C2095,C2109,L1022	INDUCTOR
2703-004012	L1040,L2024	INDUCTOR
2703-004013	C1063,C2076,L1001	INDUCTOR
2703-004014	C1036,C1060,C1061	INDUCTOR
2703-004014	L1037	INDUCTOR
2703-004032	C1418,C1419,C1432	INDUCTOR
2703-004032	C2099,L1008	INDUCTOR

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2703-004034	L1024,L2028	INDUCTOR
2703-004035	C1026,C1035,C2046	INDUCTOR
2703-004035	C2084,C2107,L1007	INDUCTOR
2703-004035	L1013	INDUCTOR
2703-004036	C1062,C1412,C1428	INDUCTOR
2703-004036	C2131,L2016	INDUCTOR
2703-004037	C1027,C2080,L1450	INDUCTOR
2703-004038	C1438,C2082,L1023	INDUCTOR
2703-004193	L5018,L5019	INDUCTOR
2703-004328	C2092,L2004	INDUCTOR
2703-004363	C1028,L1011,L1448	INDUCTOR
2703-004366	C1079,C2158,L2006	INDUCTOR
2703-004366	L2020	INDUCTOR
2703-004367	L1009	INDUCTOR
2703-004408	C1431	INDUCTOR
2703-004599	L4007	INDUCTOR
2703-004763	C1442	INDUCTOR
2703-004764	C2025,L1010,L2026	INDUCTOR
2703-004862	C2000	INDUCTOR
2703-004914	L2001	INDUCTOR
2703-005067	L4001,L4002,L4004	INDUCTOR
2703-005088	C1058	INDUCTOR
2703-005106	L1017	INDUCTOR
2703-005108	L6000	INDUCTOR
2703-005117	L6001,L6002	INDUCTOR
2801-005167	OSC2001	OSCILLATOR
2801-005254	OSC4000	OSCILLATOR
2805-001117	OSC2000	OSCILLATOR
2809-001419	TCX1000	OSCILLATOR
2901-001635	F4000	FILTER
2901-001786	F6001,F6002,F6003	FILTER
2901-001790	F6006	FILTER
2901-001798	F6000,F6004,F6005	FILTER
2904-002123	F2006	FILTER
2904-002132	F2001,F2002	FILTER
2904-002161	F2003	FILTER
2904-002241	F2005	FILTER

2904-002262	F2011	FILTER
2904-002263	F2010	FILTER
2904-002314	F2000	FILTER
2910-000253	F1004	FILTER
2911-000381	F1000	FILTER
3003-001219	MIC5000	MIC
3301-001438	L2027	CORE-FERRITE BEAD
3301-001729	L5012	CORE-FERRITE BEAD
3301-001789	L5004,L5005,L6003	CORE-FERRITE BEAD
3301-001789	L6004,L6005	CORE-FERRITE BEAD
3301-001885	L5002,L5003,L5006	CORE-FERRITE BEAD
3301-001885	L5007,L5008,L5009	CORE-FERRITE BEAD
3301-001885	L5010,L5014,L5015	CORE-FERRITE BEAD
3301-001895	L1003,L2002,L2003	CORE-FERRITE BEAD
3301-001895	L2007,L2017	CORE-FERRITE BEAD
3301-002122	L1018,L1019	CORE-FERRITE BEAD
3301-002236	L1028,L2011,L5011	CORE-FERRITE BEAD
3301-002236	R6000	CORE-FERRITE BEAD
3301-002238	L1004,L1005,L1006	CORE-FERRITE BEAD
3301-002238	L1026,L1460	CORE-FERRITE BEAD
3301-002254	L4006	CORE-FERRITE BEAD
3404-001550	TAC5000,TAC5001	SWITCH-TACT
3404-001550	TAC5002	SWITCH-TACT
3705-001708	RFS1000	CONNECTOR-COAXIAL
3708-002283	HDC5000	CONNECTOR-FPC
3708-003254	HDC6002,SLC6000	CONNECTOR-FPC
3709-001840	SIM6000	CONNECTOR-SIM
3711-008010	HEA5000	CONNECTOR-HEADER
3711-008737	BTC4000	CONNECTOR-HEADER
3711-008925	HDC6001	CONNECTOR-HEADER
3712-001621	ANT1000,ANT1001	CONNECTOR
3712-001621	ANT2000,ANT2001	CONNECTOR
3712-001621	ANT2002,ANT2003	CONNECTOR
3712-001621	ANT5002,ANT5003	CONNECTOR
3712-001626	ANT5000,ANT5001	CONNECTOR
3722-003708	IFC400	CONNECTOR
4709-002187	CPL1000	RF-MODULE

GH61-09781A	SUS1000	FINGER-SMD
GH62-00040A	U1401,U1404,U1405	PAD-GAP
GH62-00040A	U1407,U1408,U1440	PAD-GAP
GH62-00040A	U1442,U1443,U1444	PAD-GAP
GH62-00047A	U1409,U1441	PAD-GAP
GH80-03321A	C2159,C4013,C4091	SOLDER-CREAM
GH80-03321A	R1010,R1011,R1013	SOLDER-CREAM
GH80-03321A	R1015,R2013,R2014	SOLDER-CREAM
GH80-03321A	R3041,R4033,R5000	SOLDER-CREAM
GH80-03321A	R5006,R5013,R5019	SOLDER-CREAM
GH80-03321A	R6010,R6017,U6021	SOLDER-CREAM
GH98-38090A	SC3	SOLDER-CREAM
GH98-38091A	SC1	SHIELDCAN
GH98-38092A	SC2	SHIELDCAN

Please consult the GSPN website (Samsung Portal)

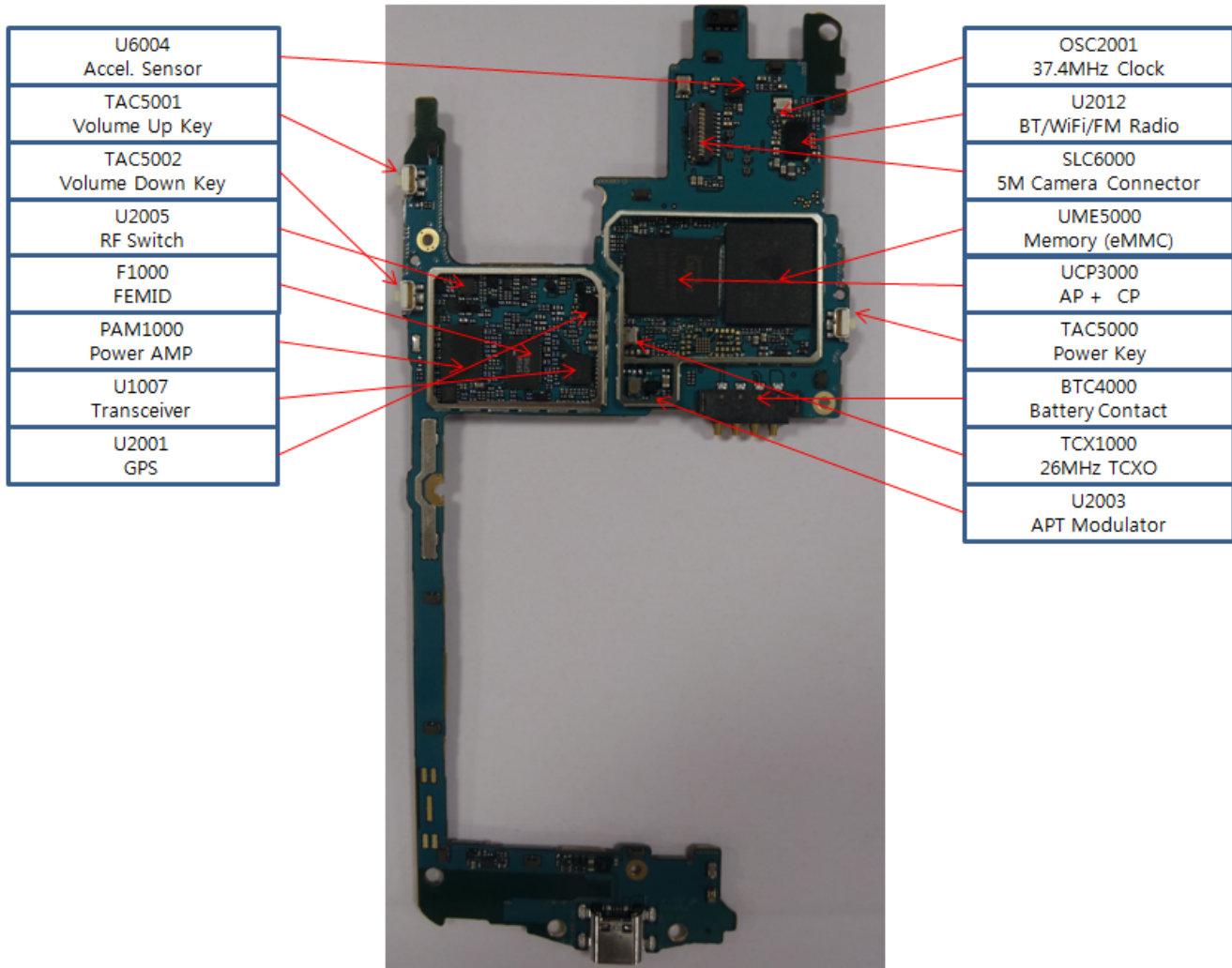
duct's part list.

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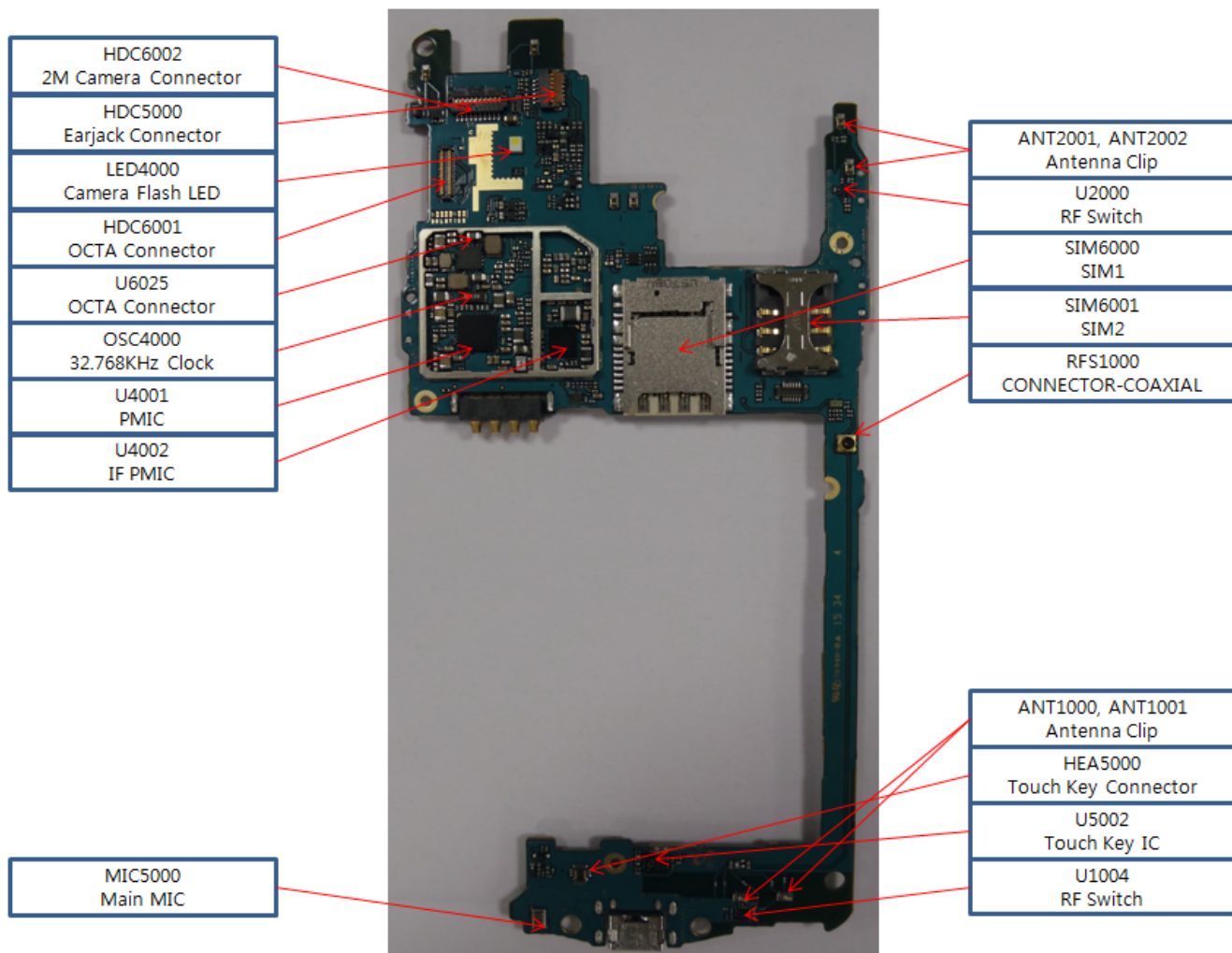
8. Level 3 Repair

8-1. Components Layout

PBA (Top Side)

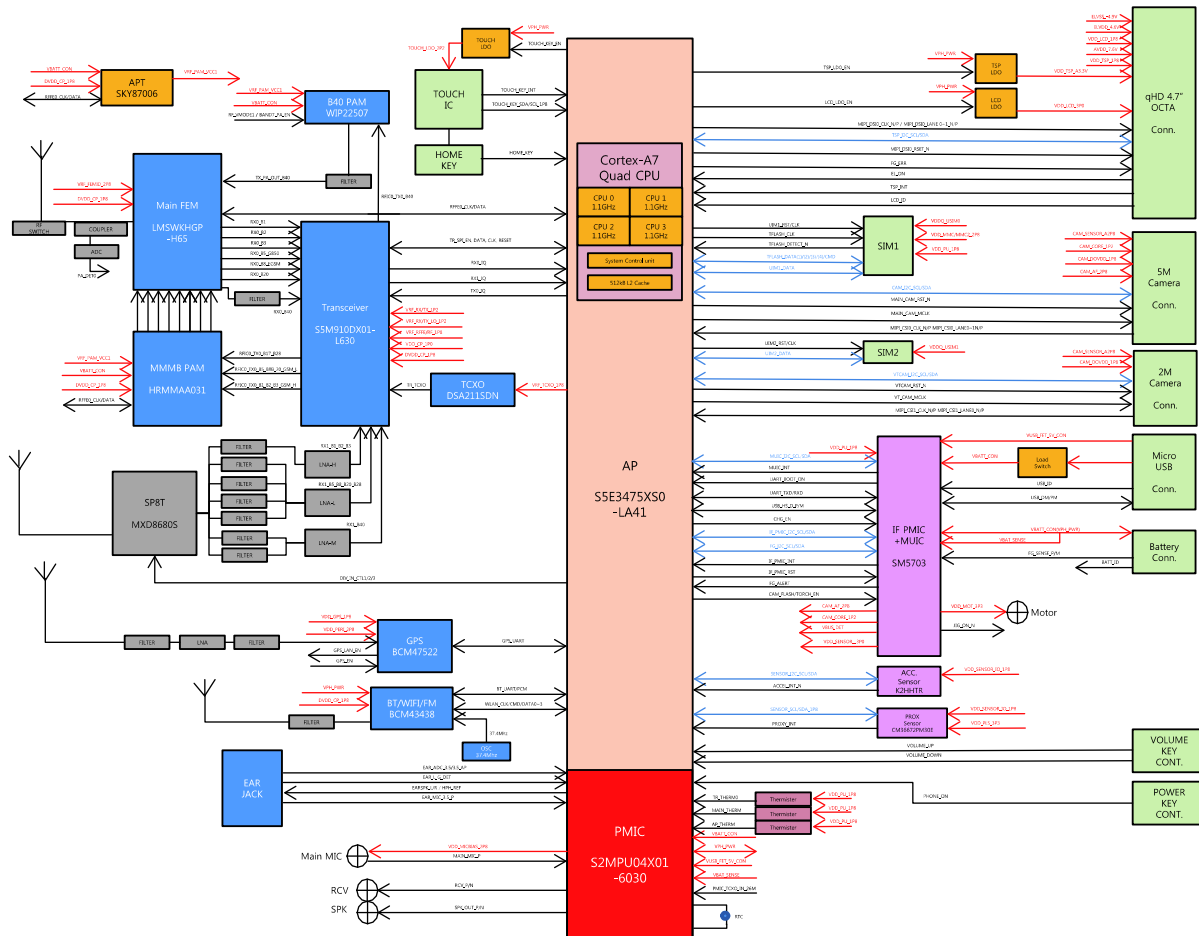


PBA (Bottom Side)



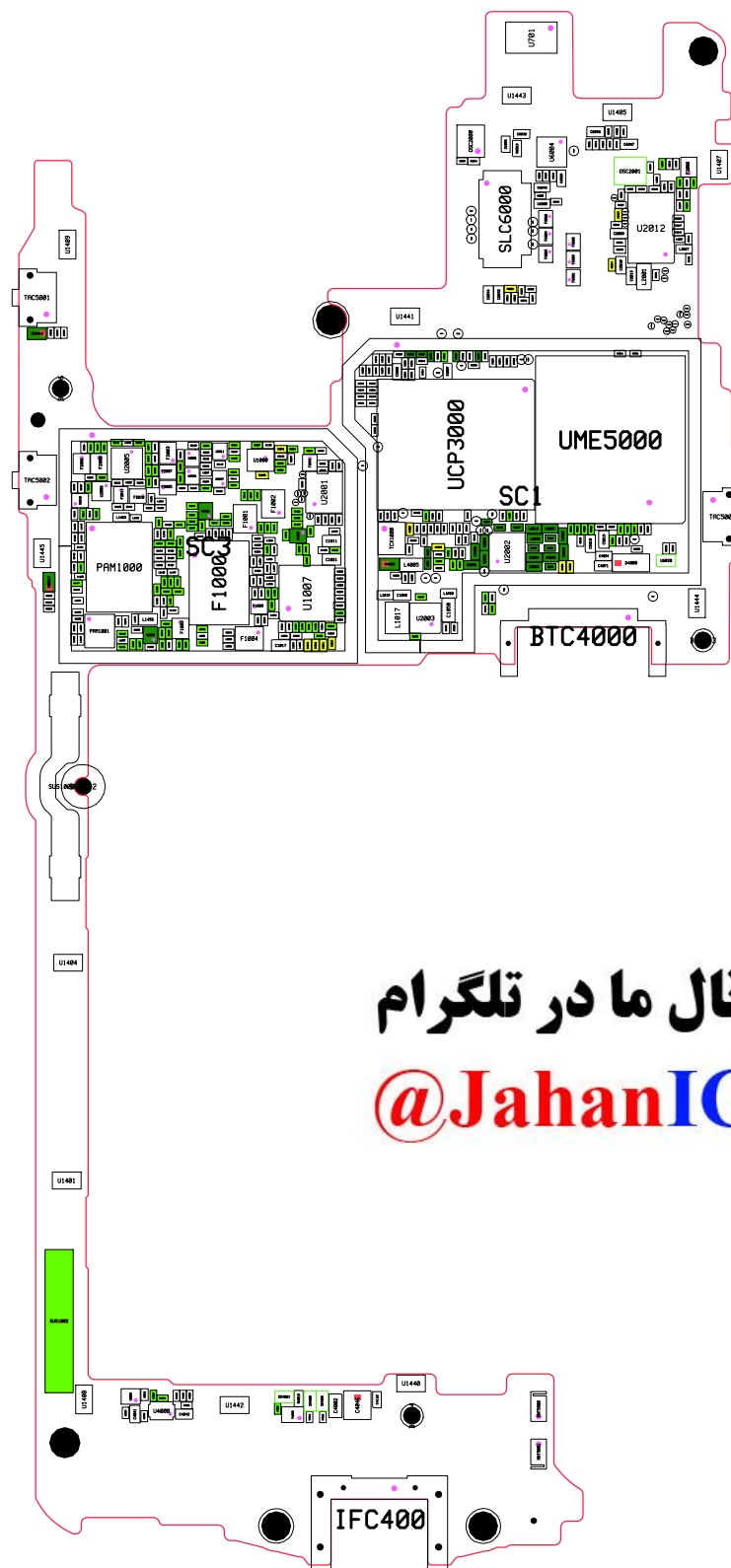
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8-2. Block Diagram

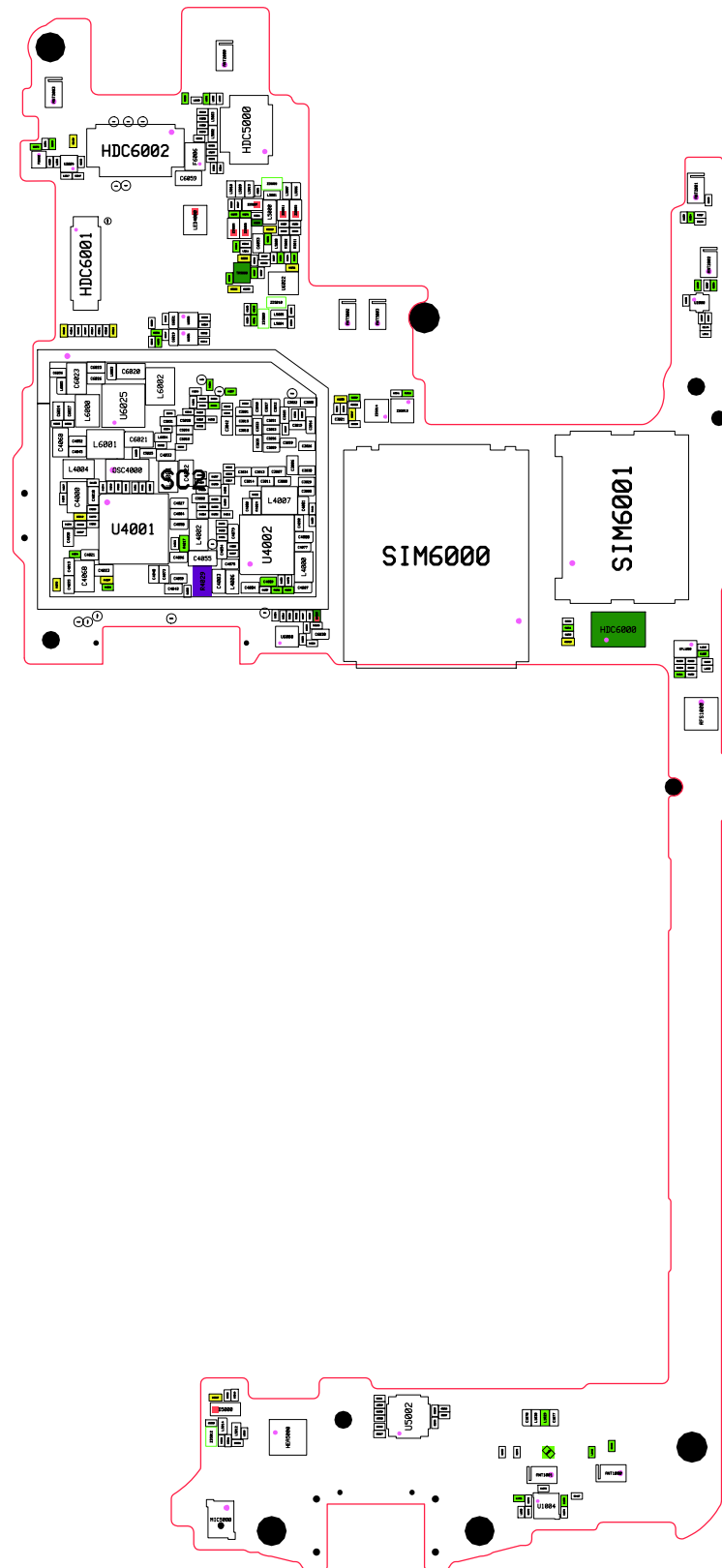


8-3. PCB Diagrams

8-3-1. Top

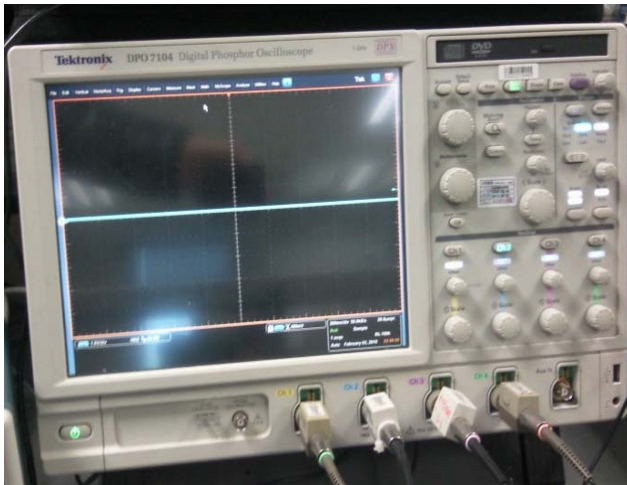


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8-4. Flow Chart of Troubleshooting

Equipments



↑ Oscilloscope



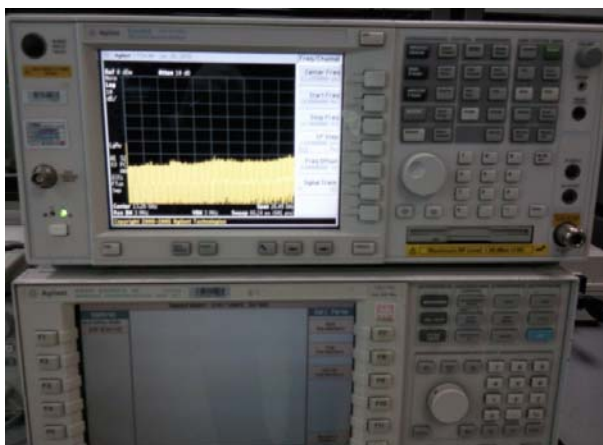
↗ Digital Multi-meter



↗ Power Supply



↗ + driver, ESD Safe Tweezer

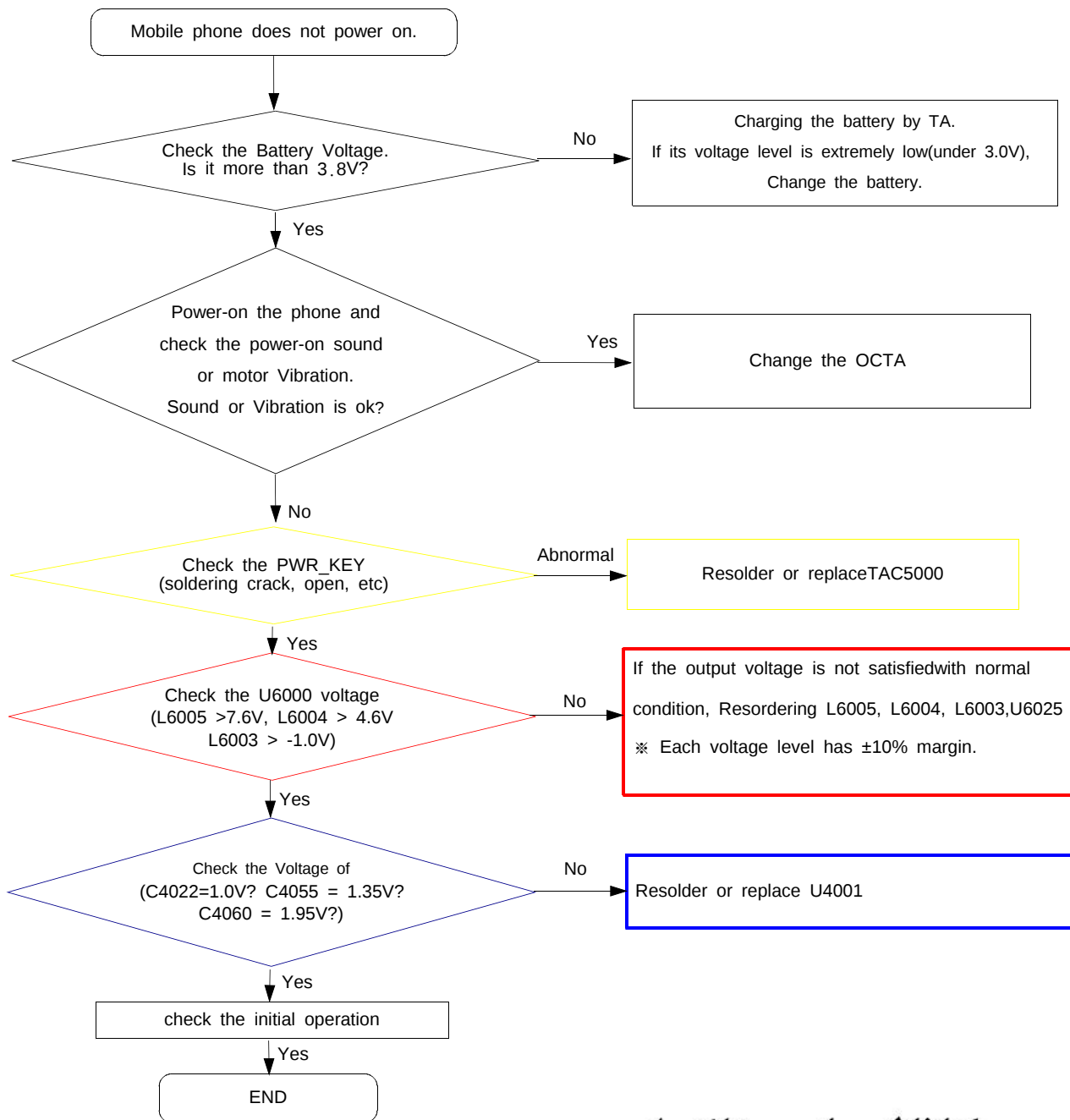


↑ 8960 & Spectrum Analyzer

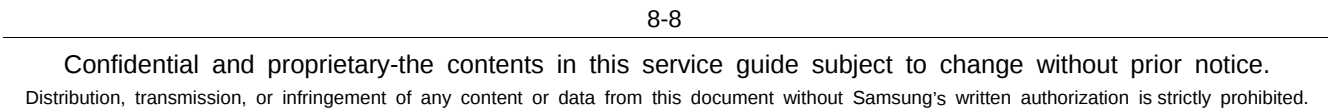


↗ Soldering iron

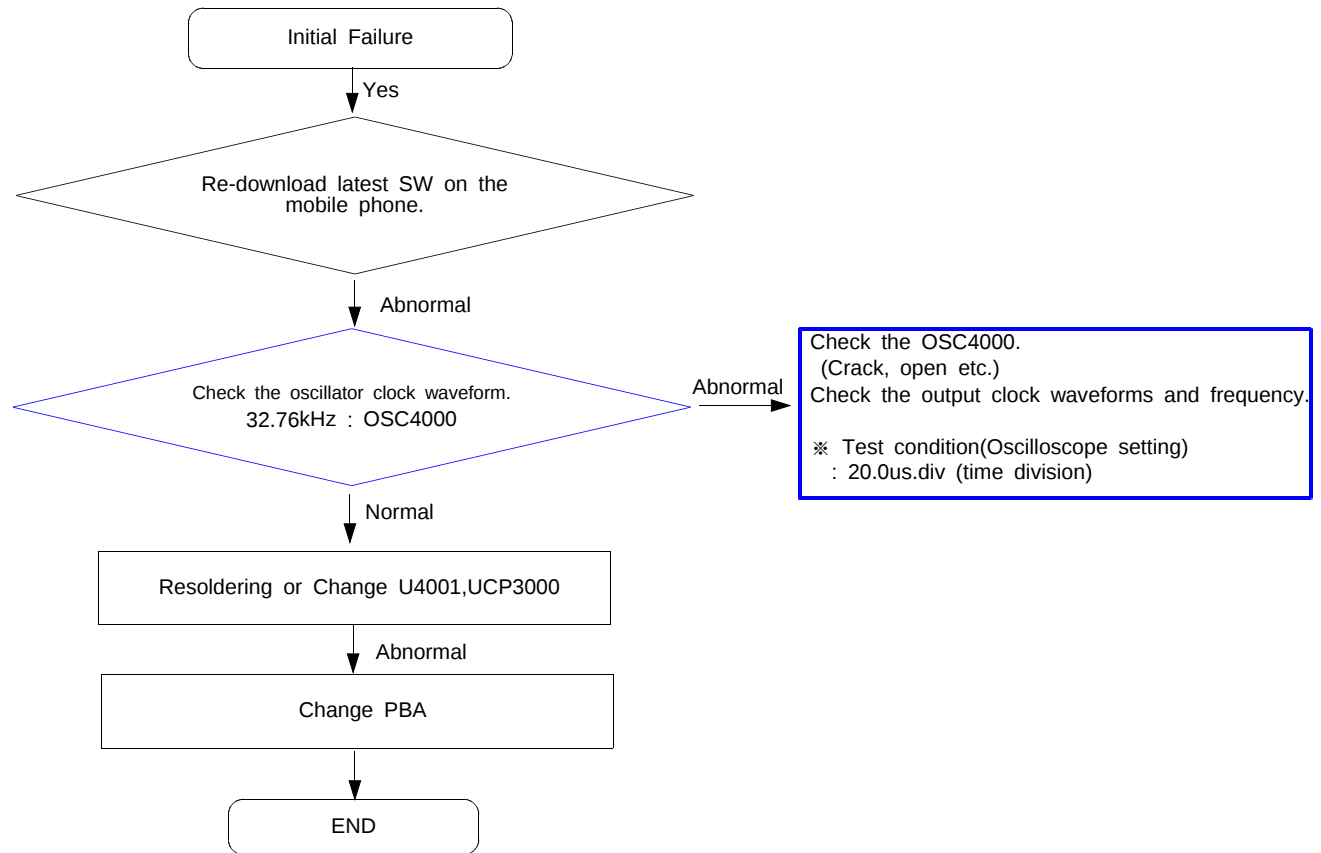
8-4-1. Power On



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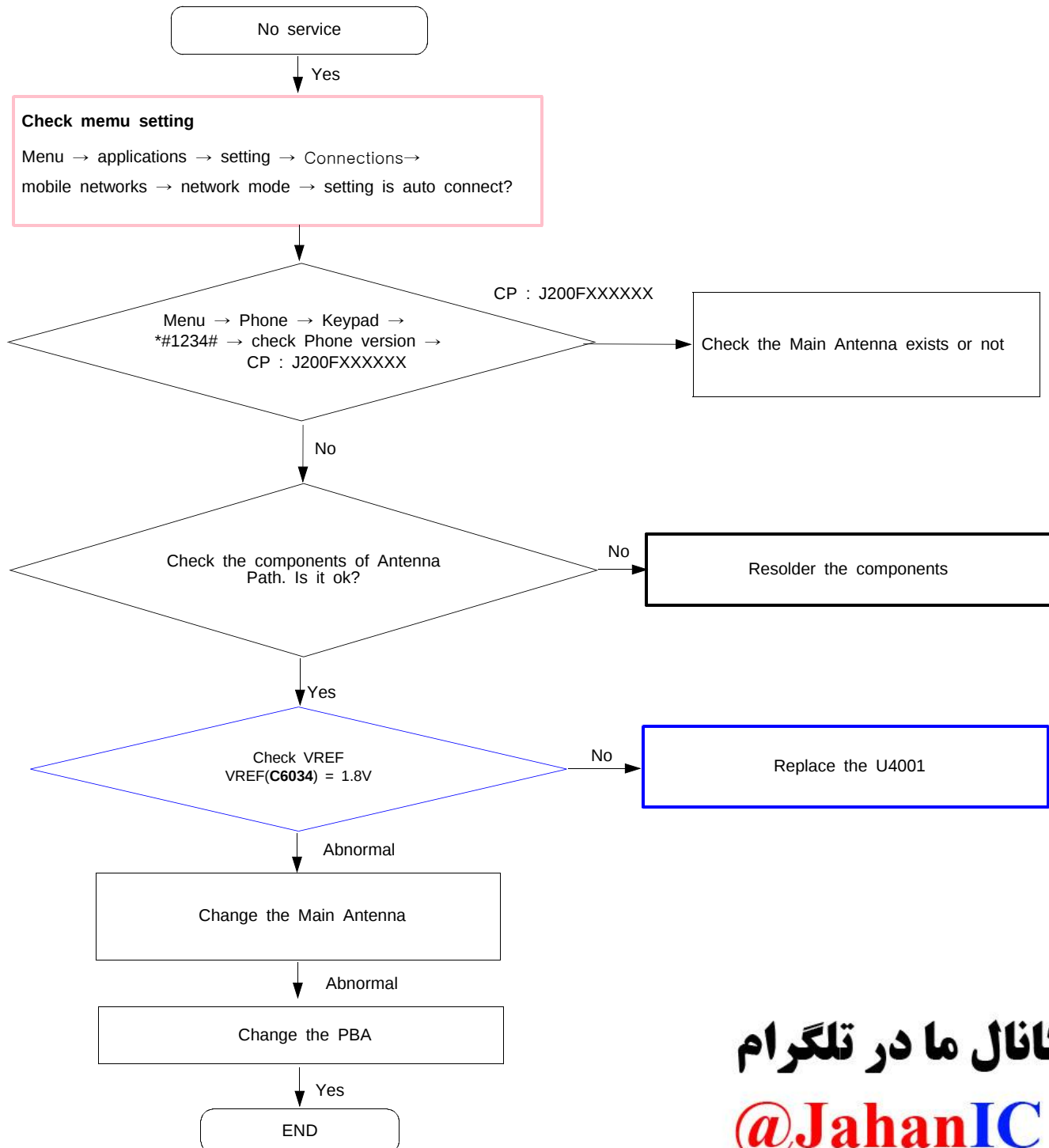


8-4-2. Initial



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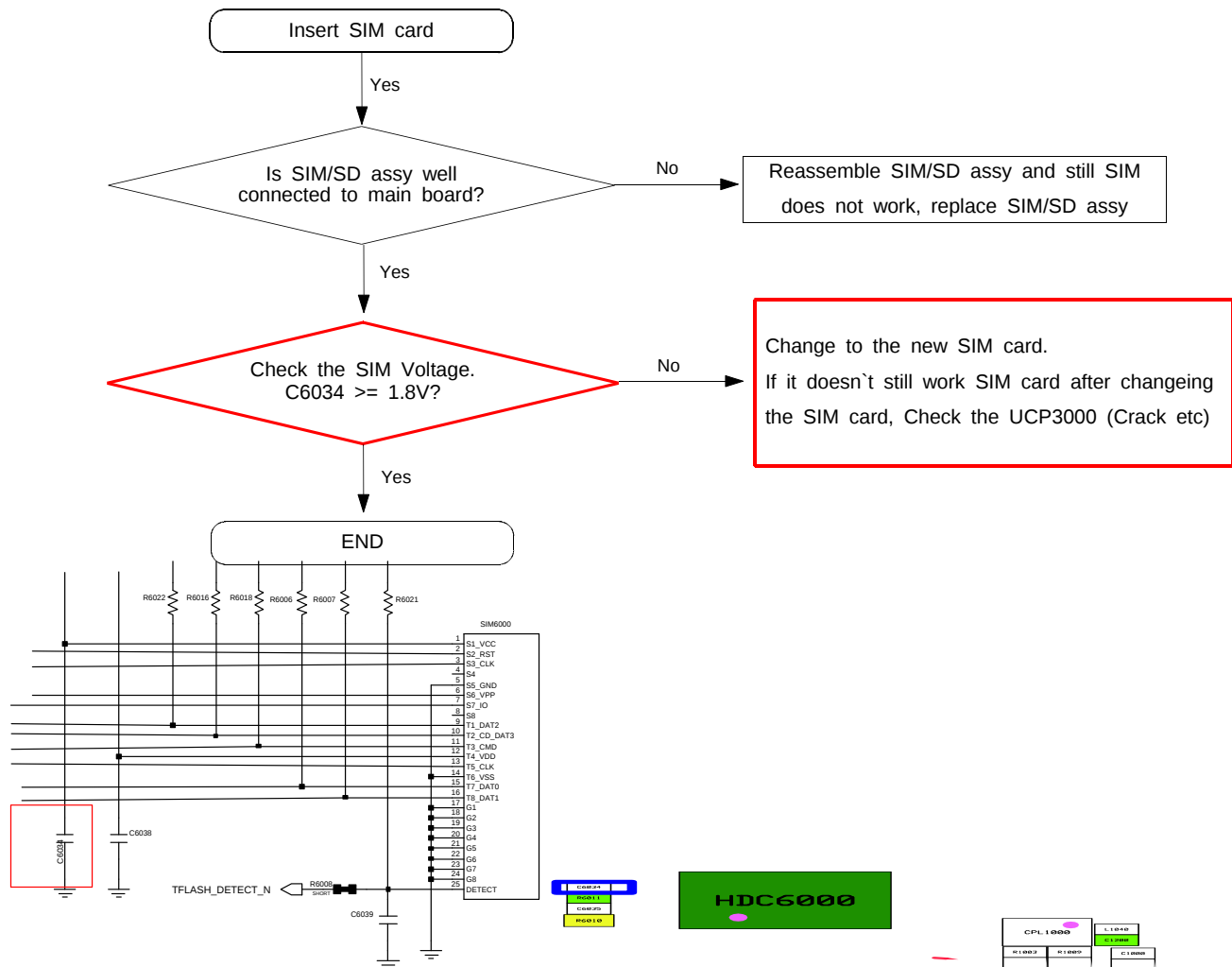
8-4-3. No Service



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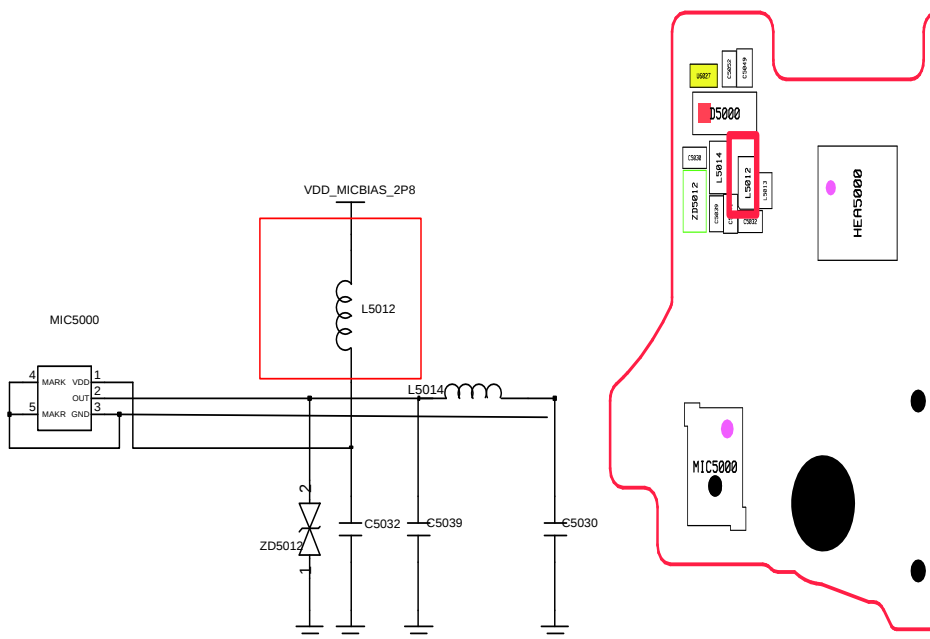
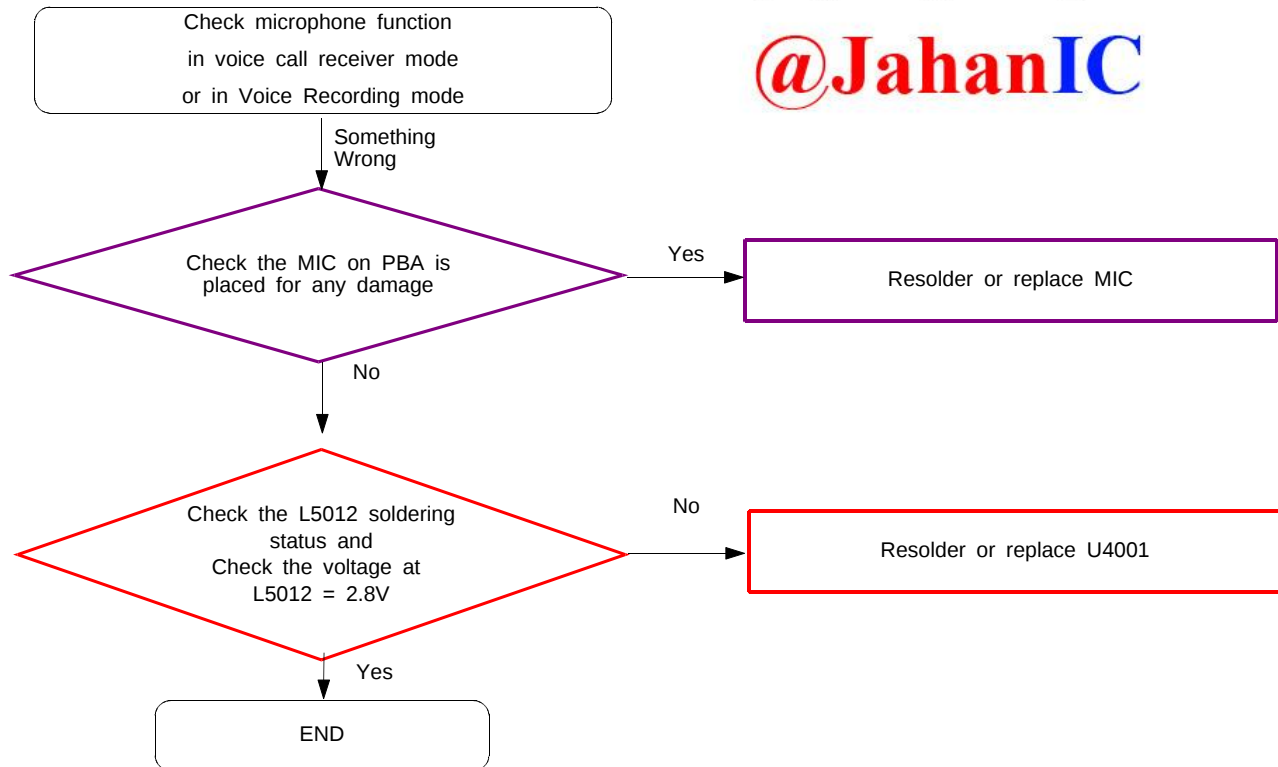


8-4-4. Sim Part

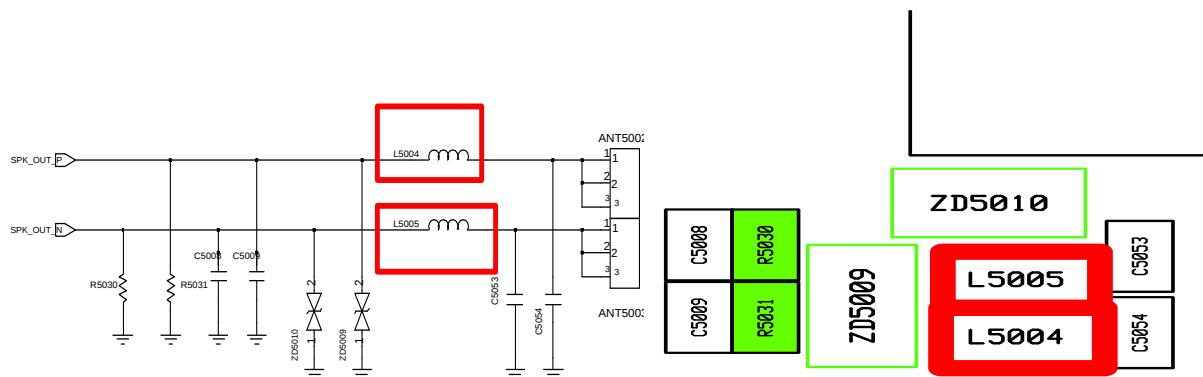
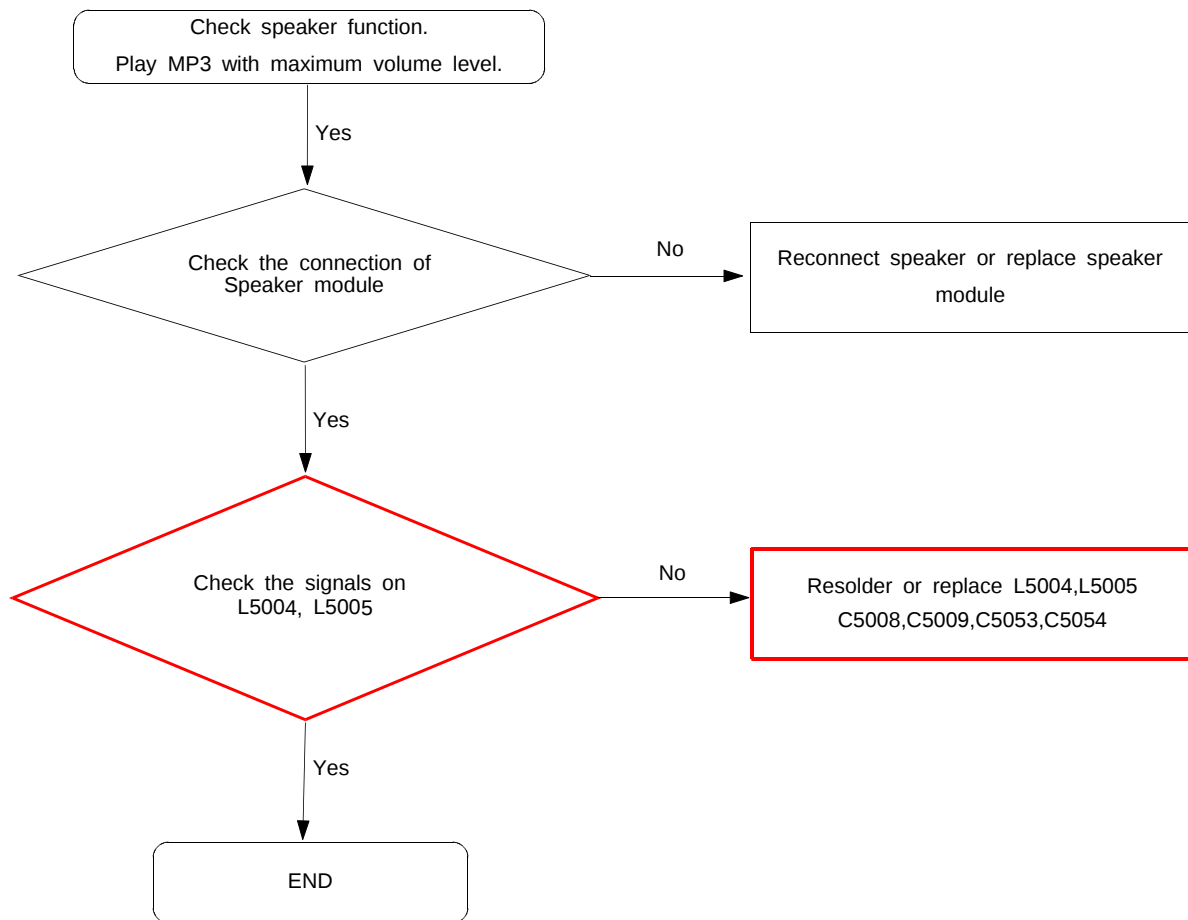


8-4-6. Microphone Part

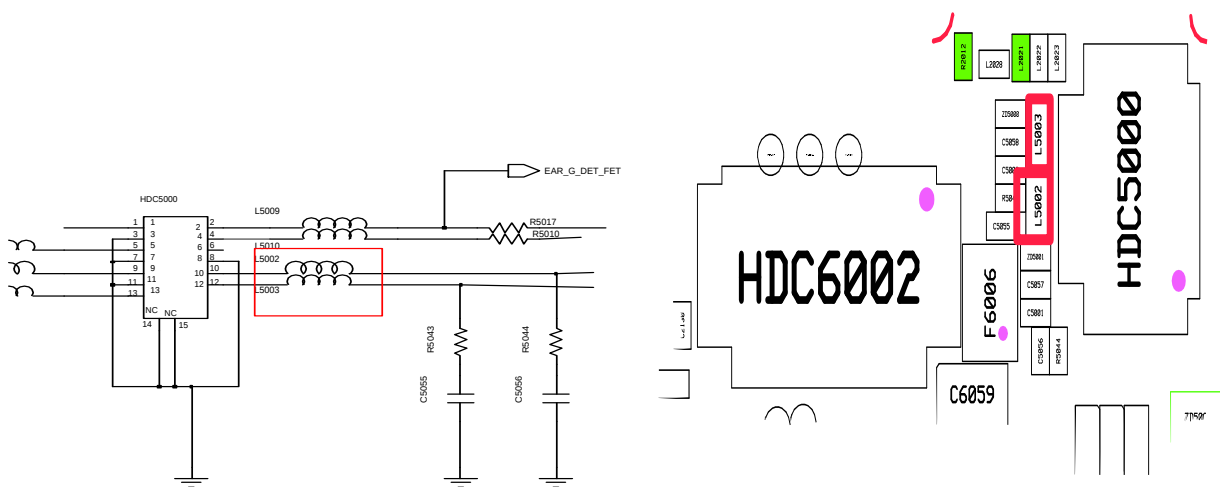
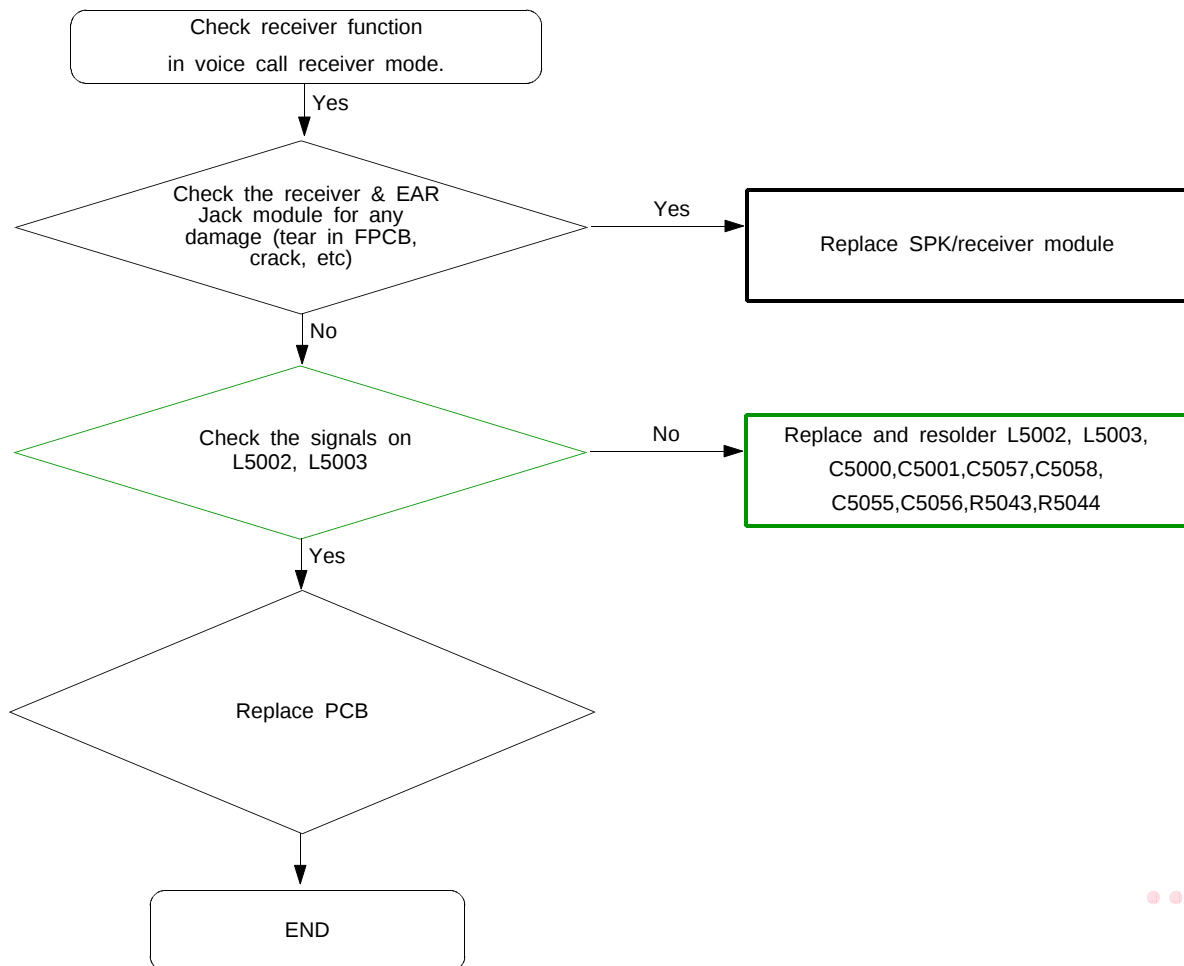
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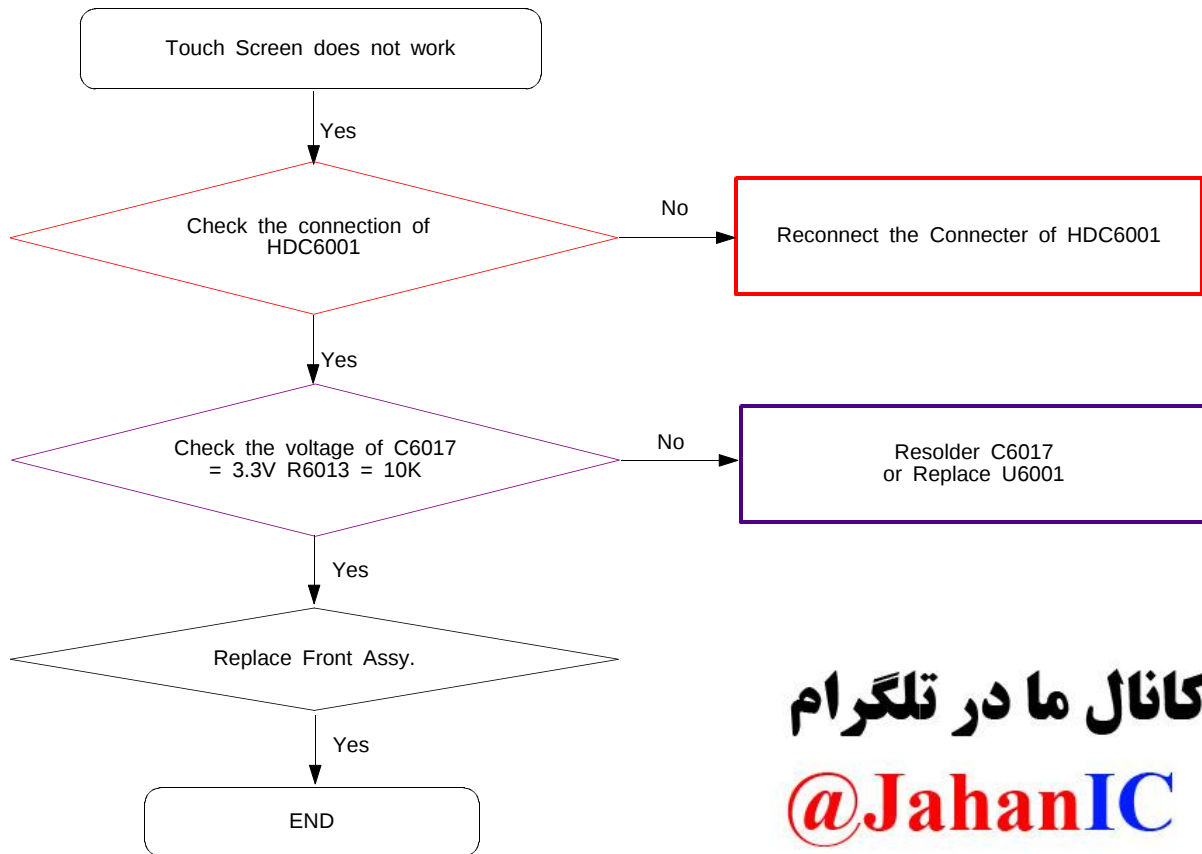
8-4-7. Speaker Part



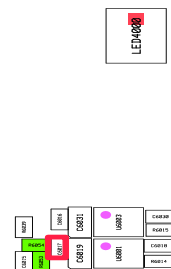
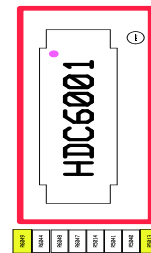
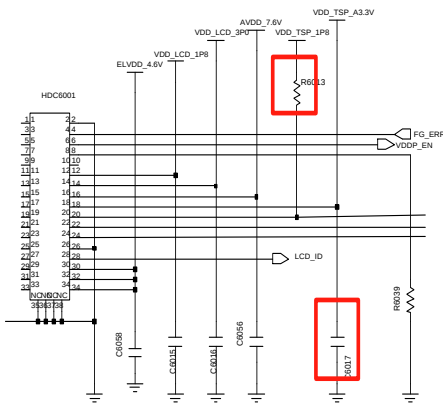
8-4-8 Receiver Part



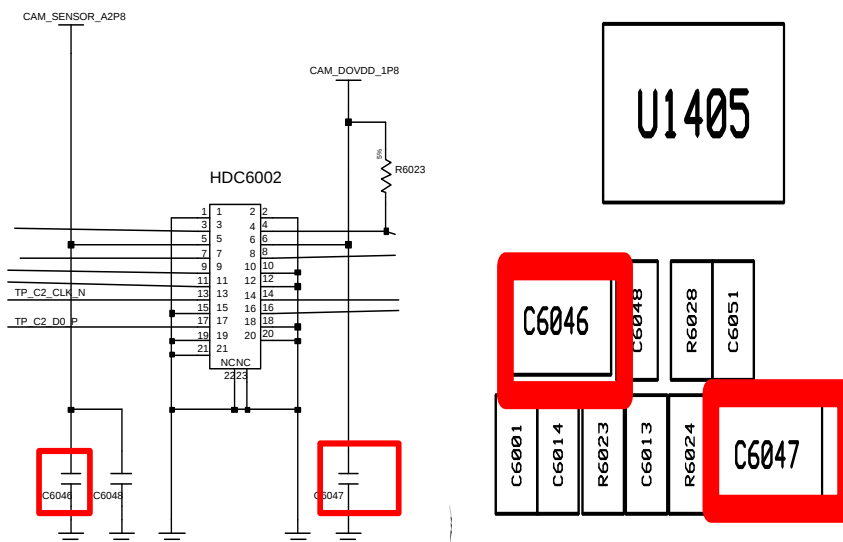
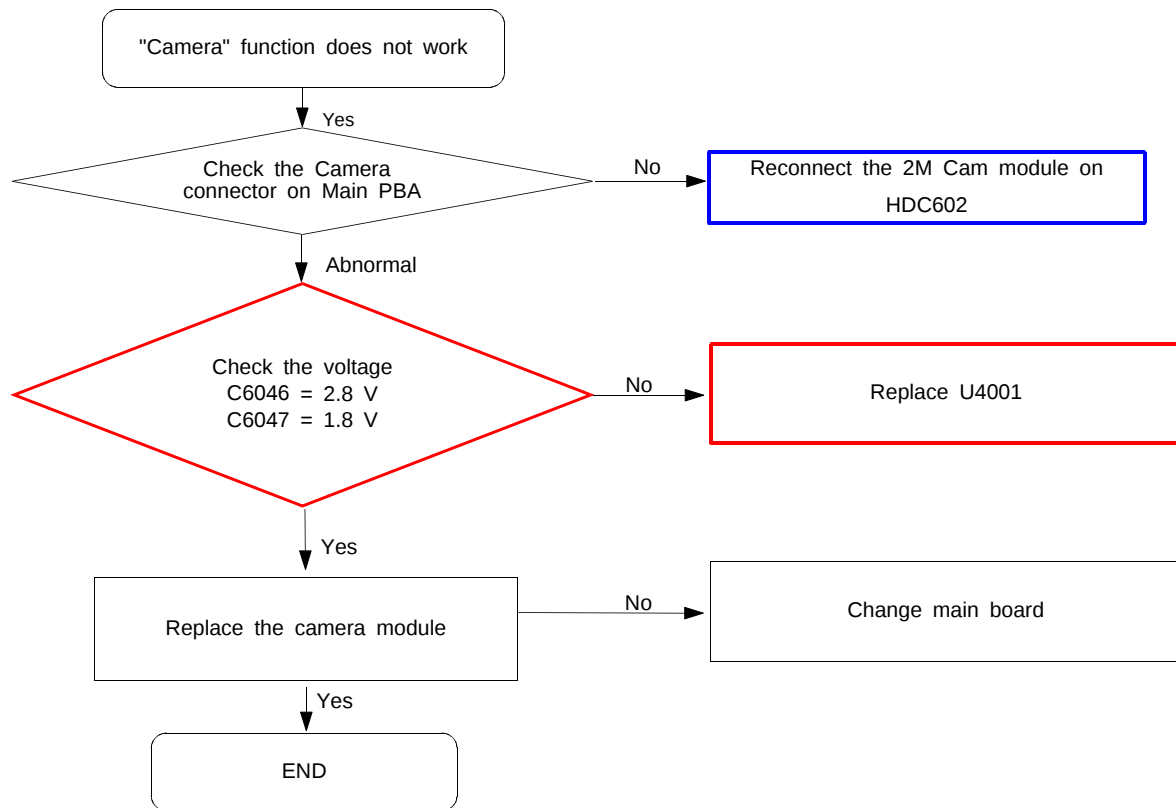
8-4-10. TSP



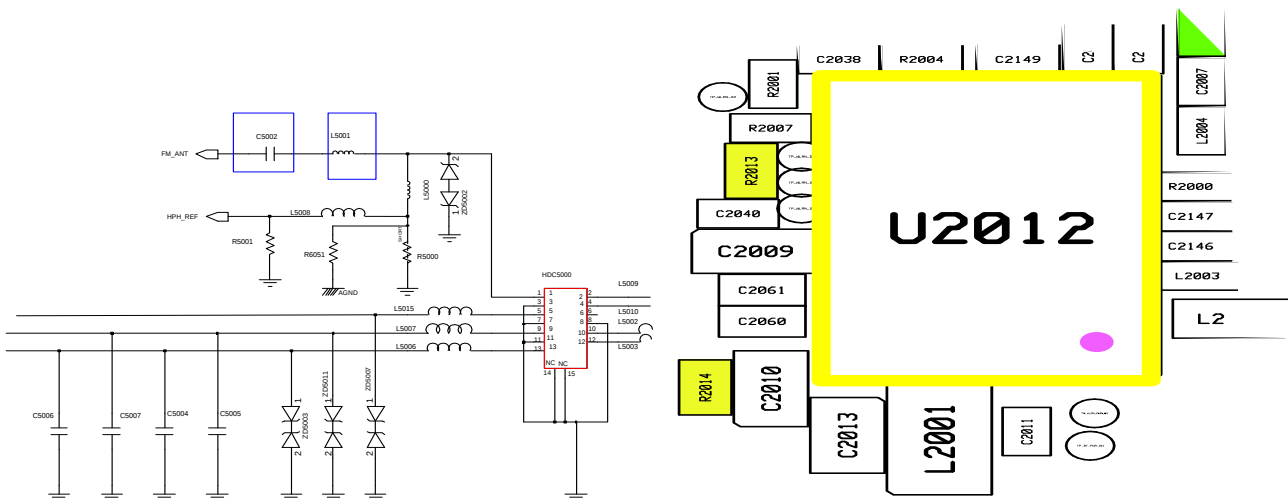
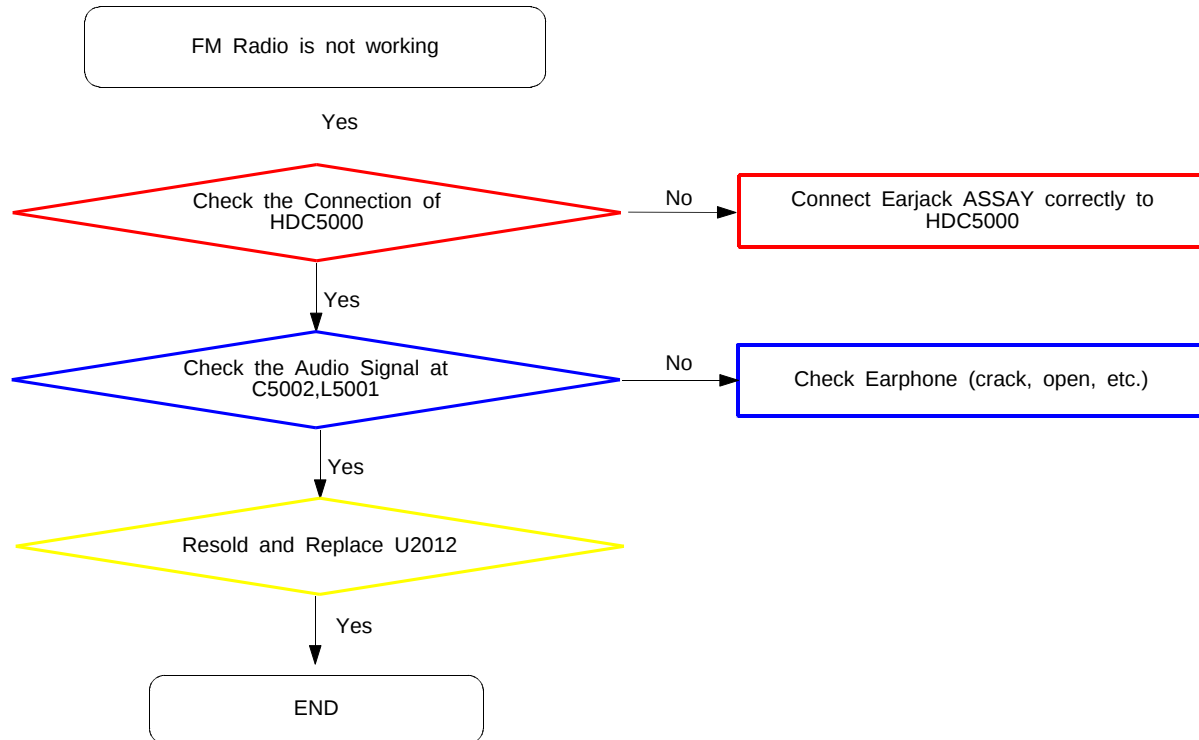
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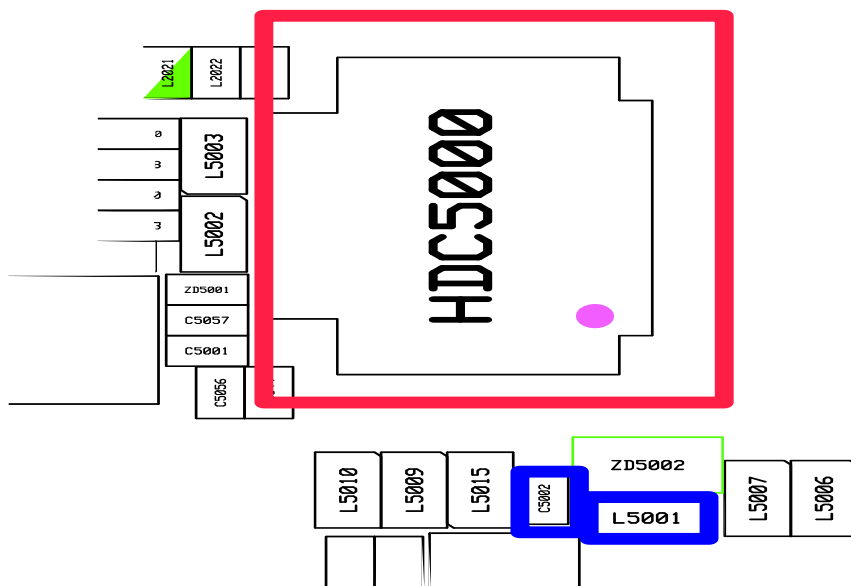
8-4-12. 2M CAM



8-4-13. FM radio

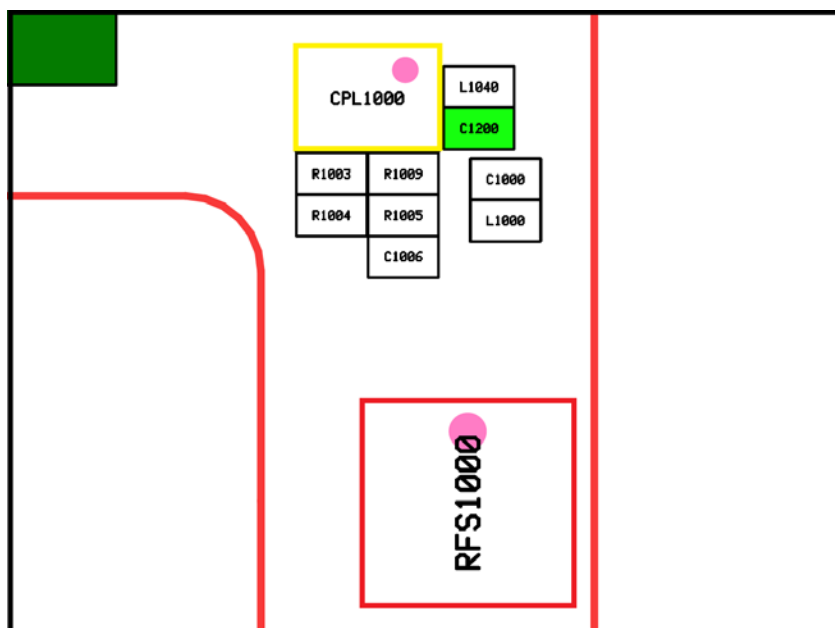
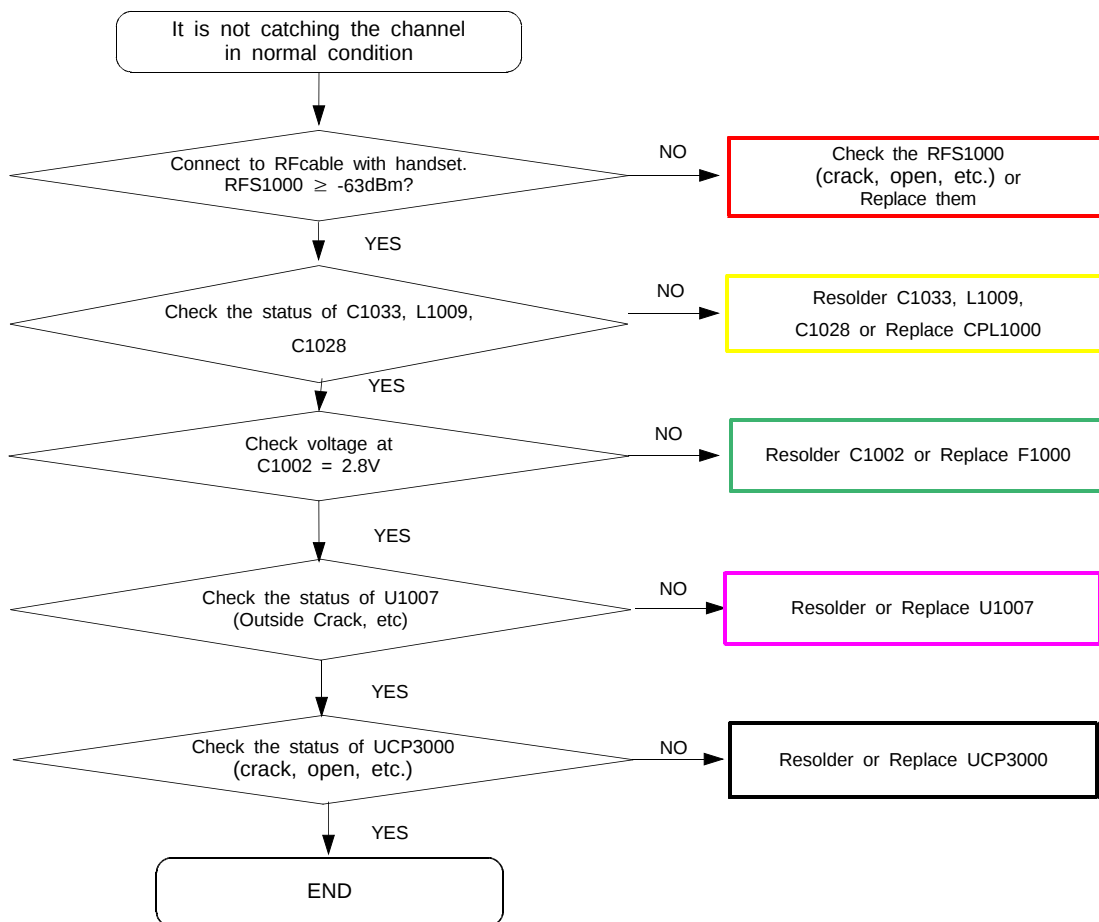


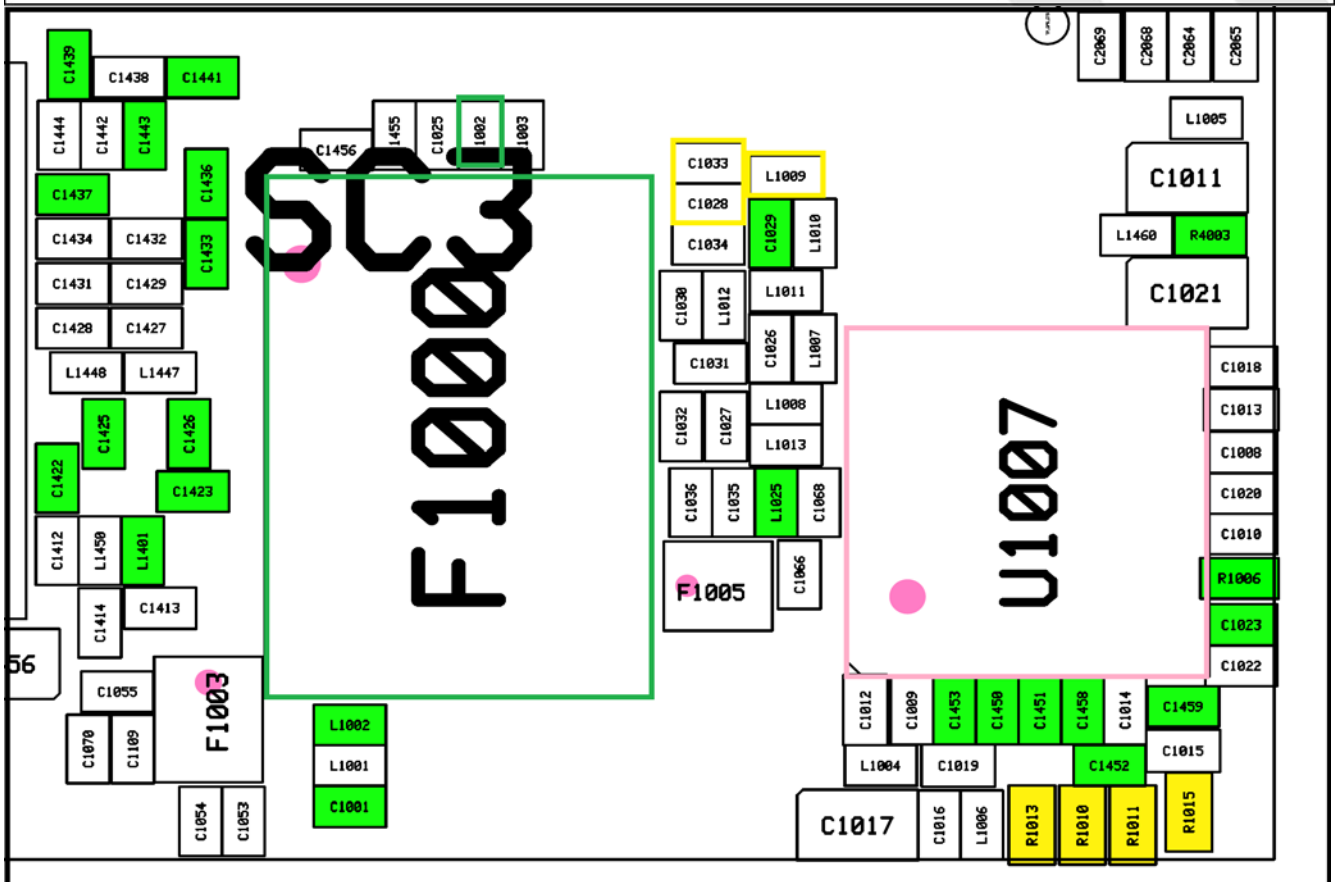
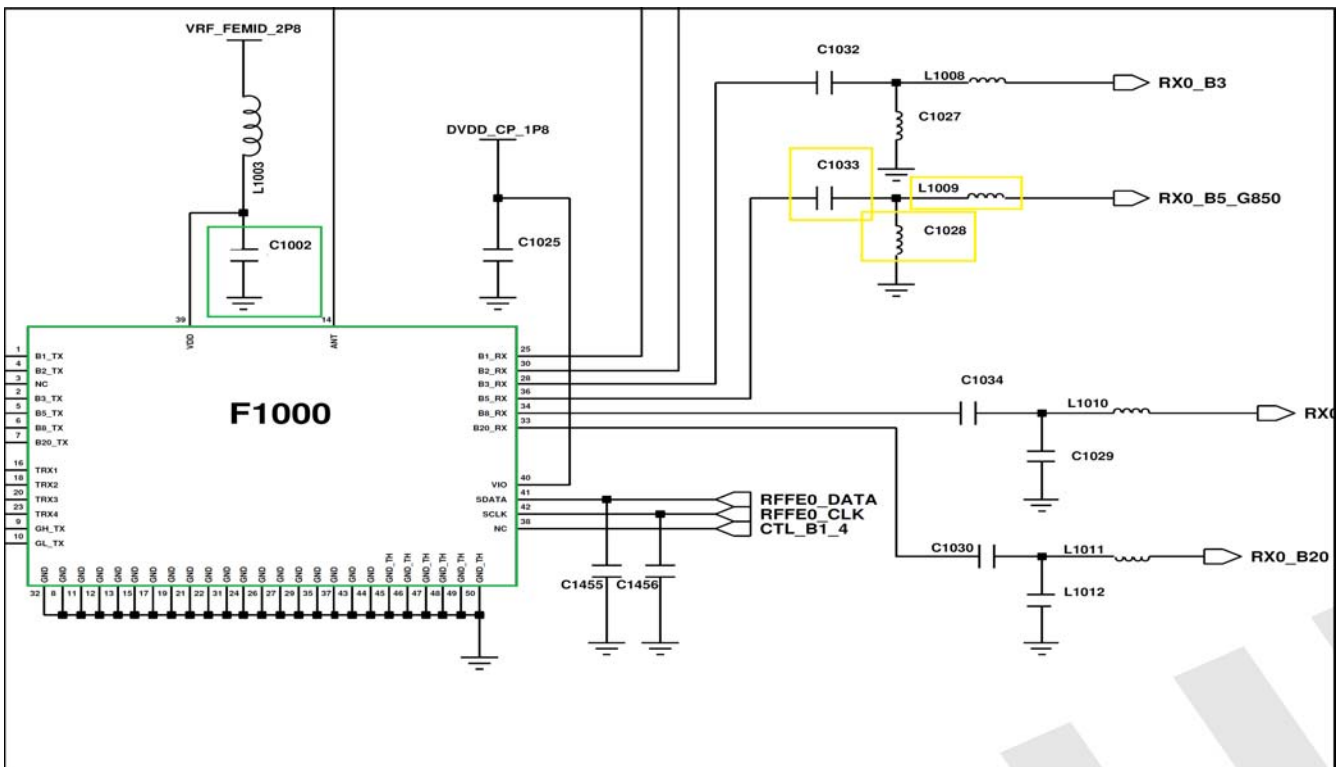
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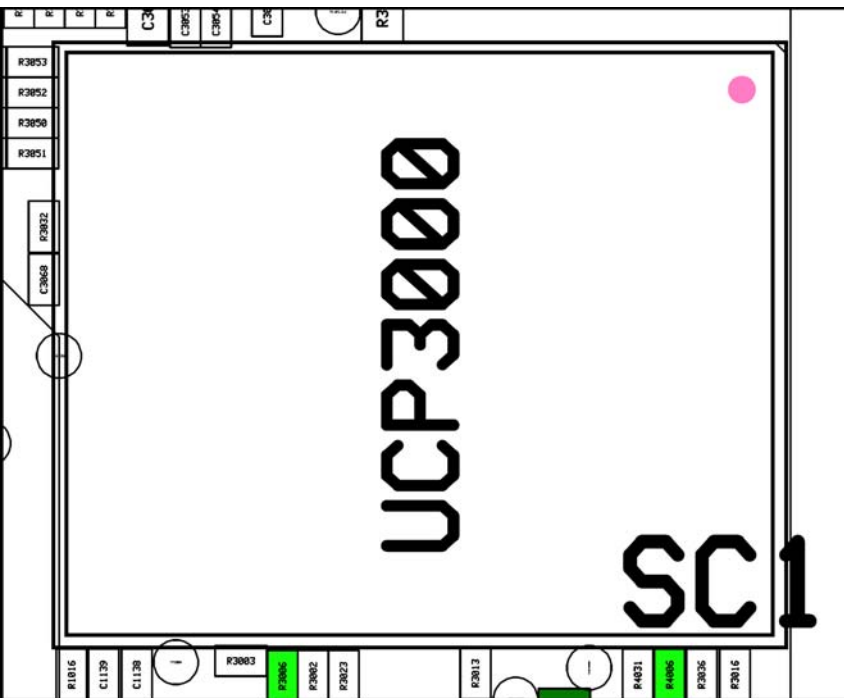
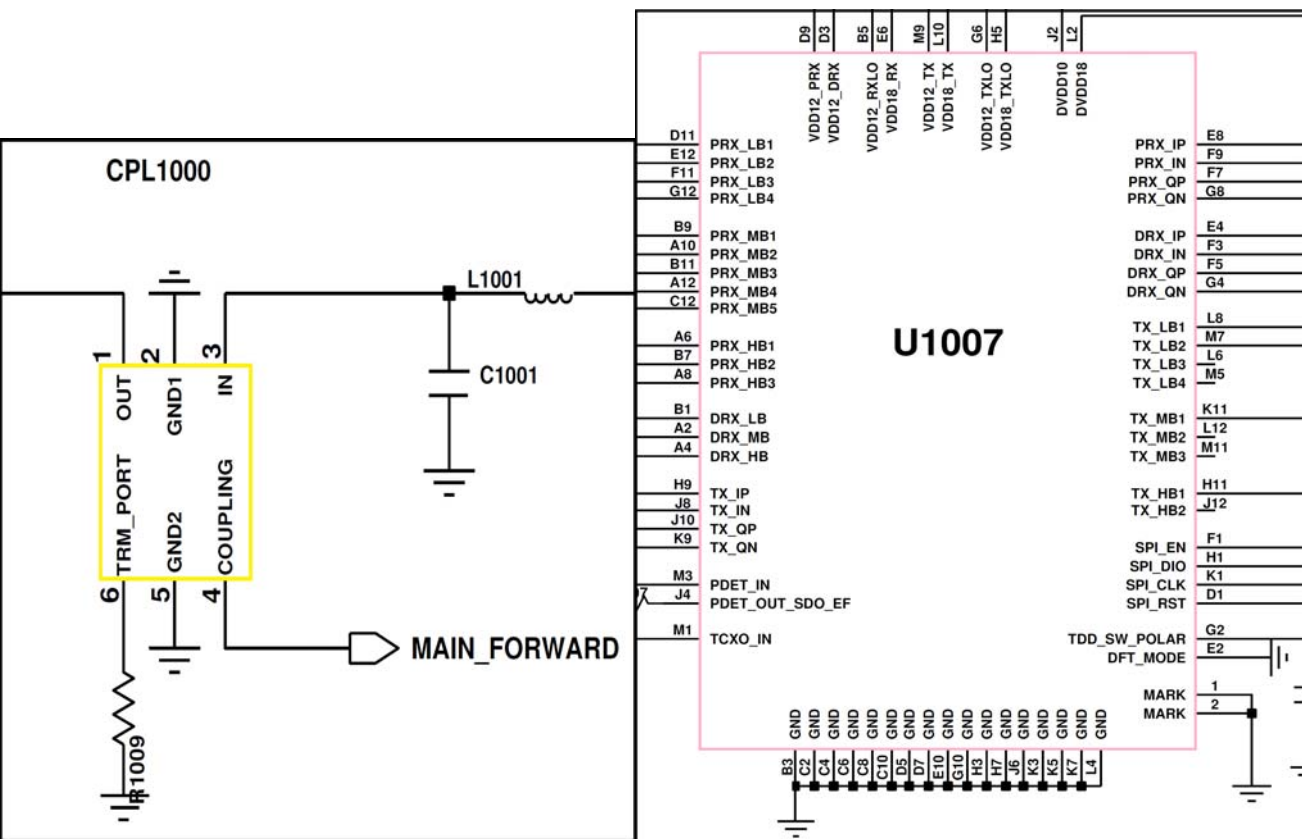


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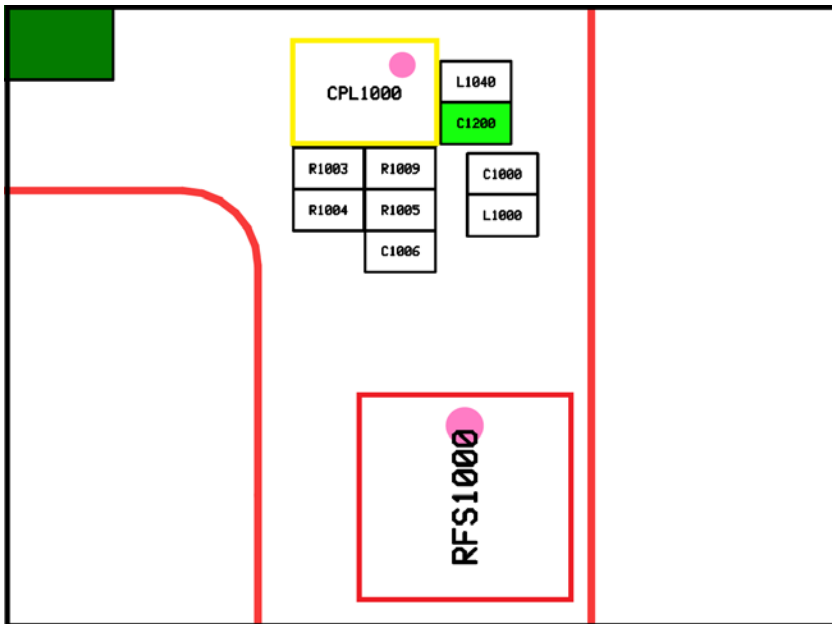
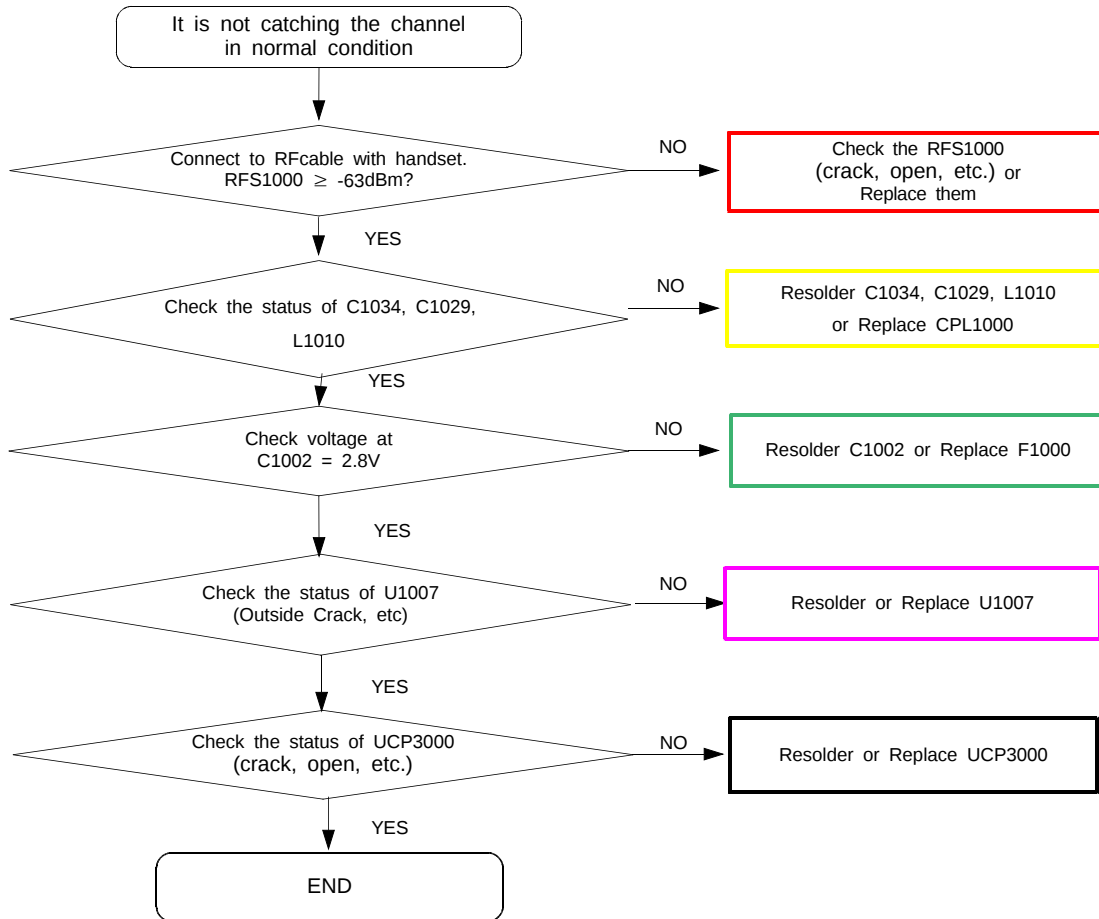
8-4-14. GSM850 / WCDMA Band5 / LTE Band5 Rx

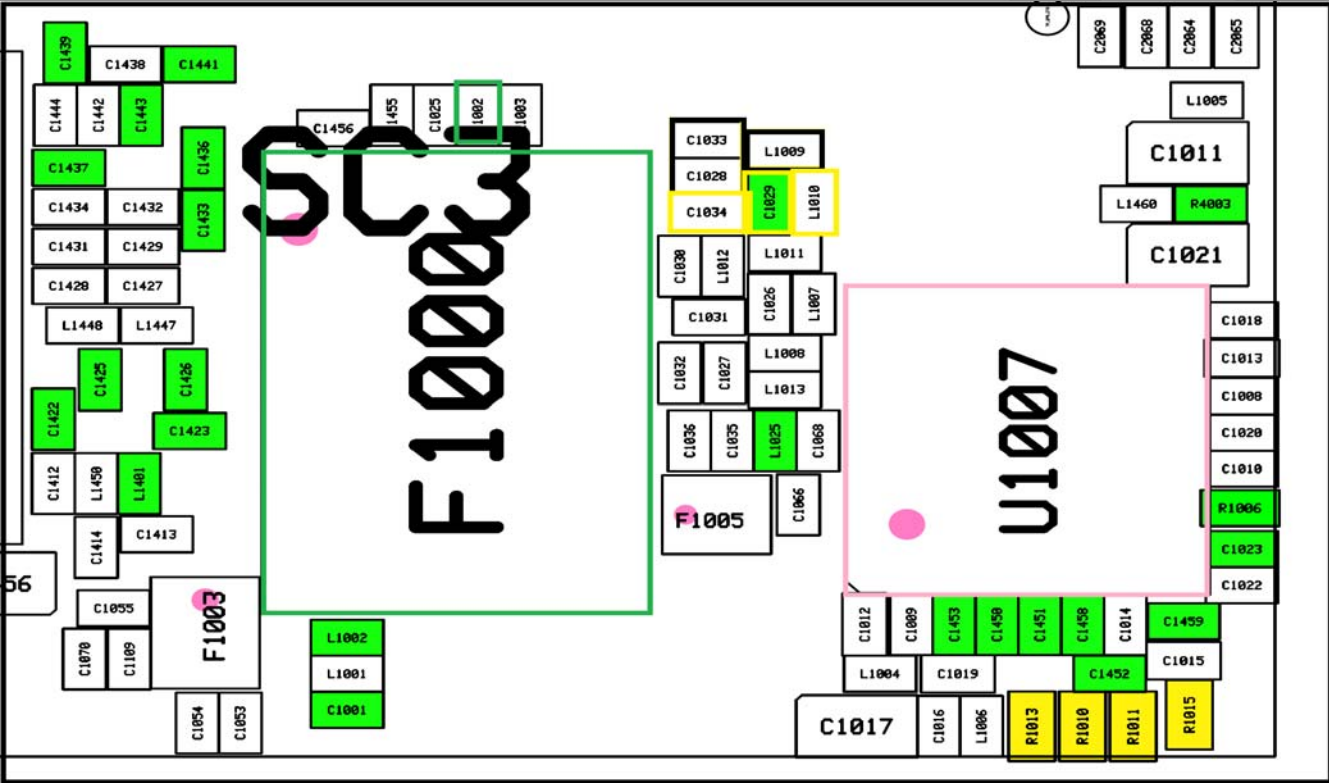


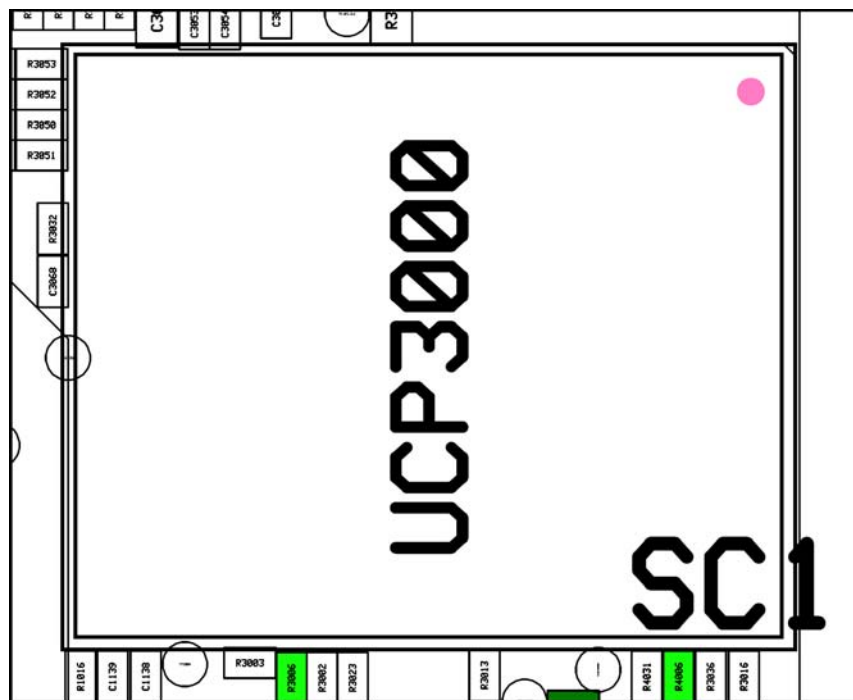
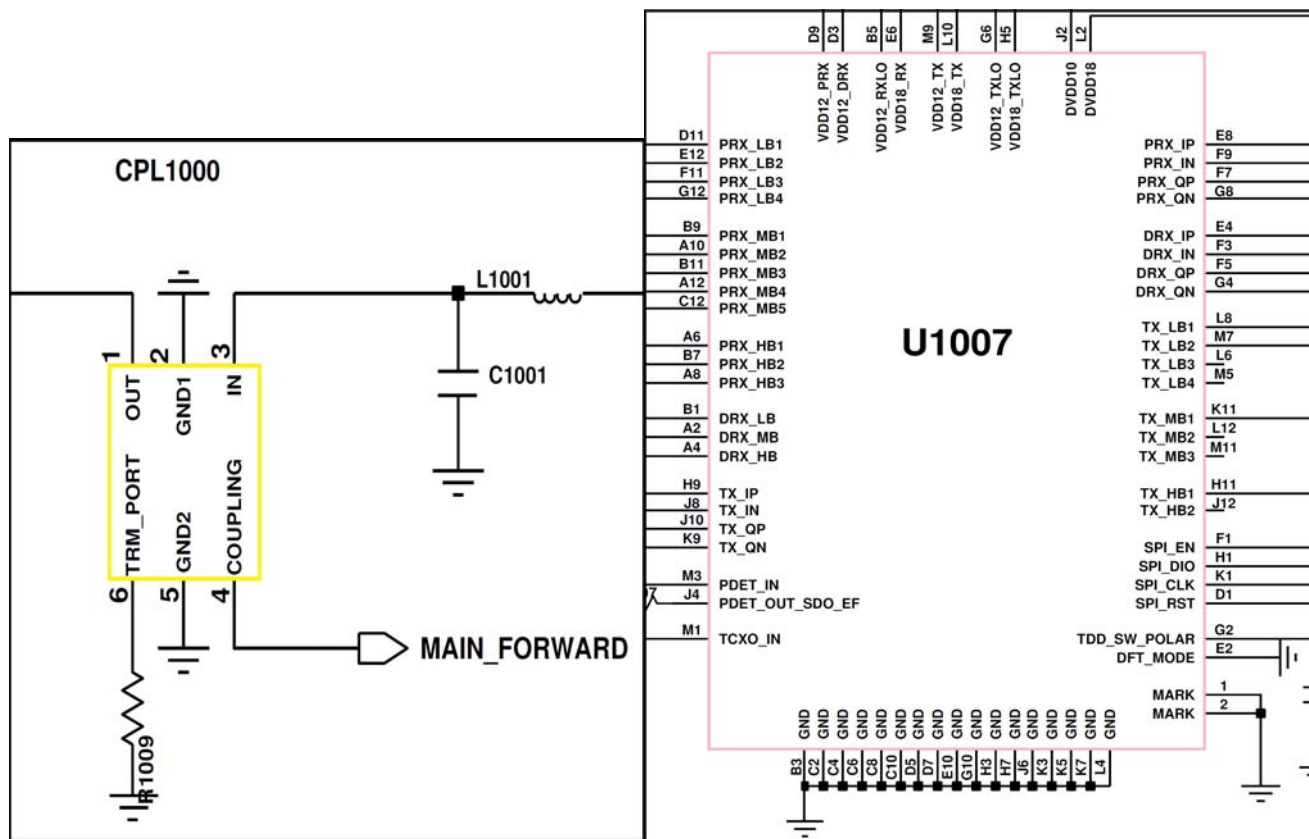




8-4-15. GSM900 / WCDMA Band 8 / LTE B8 Rx

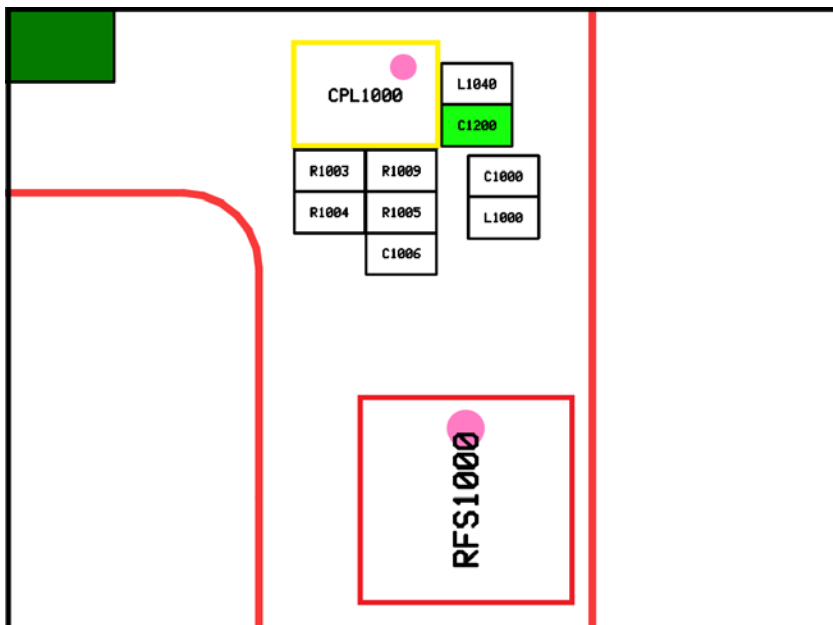
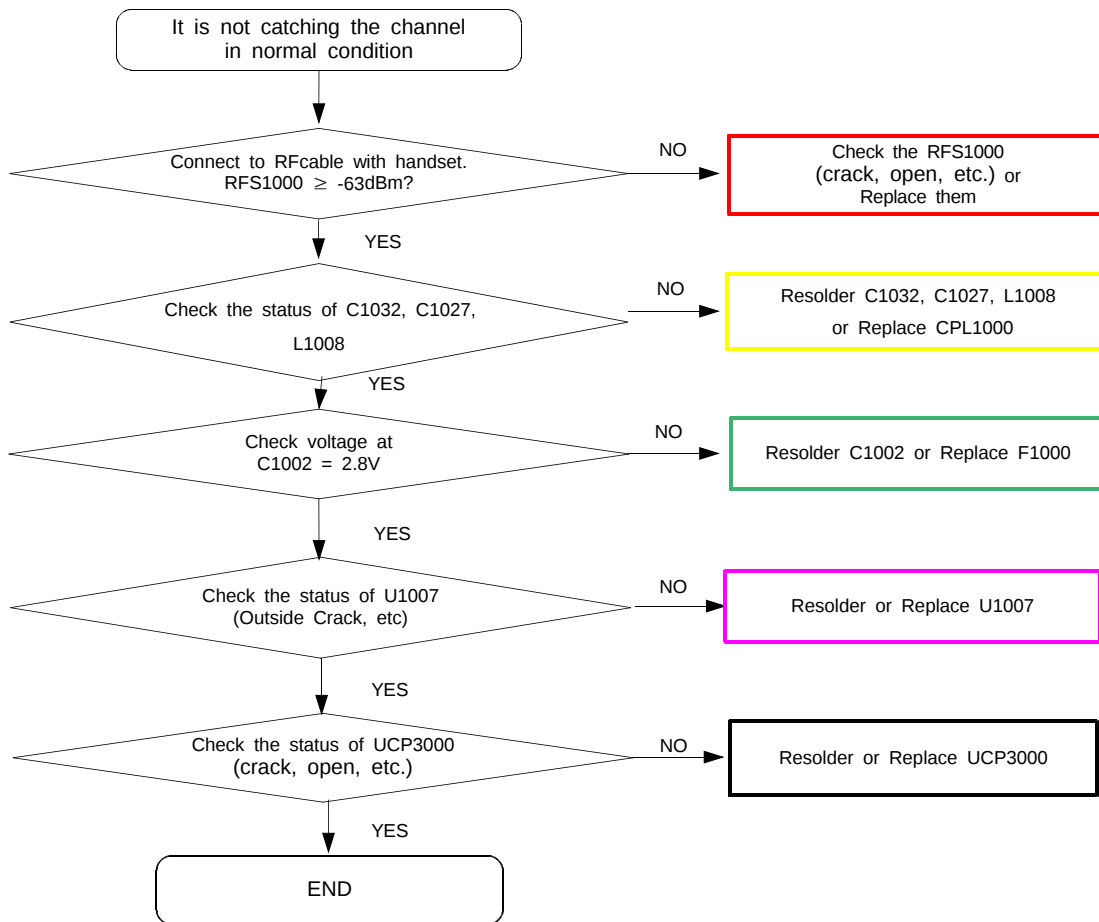




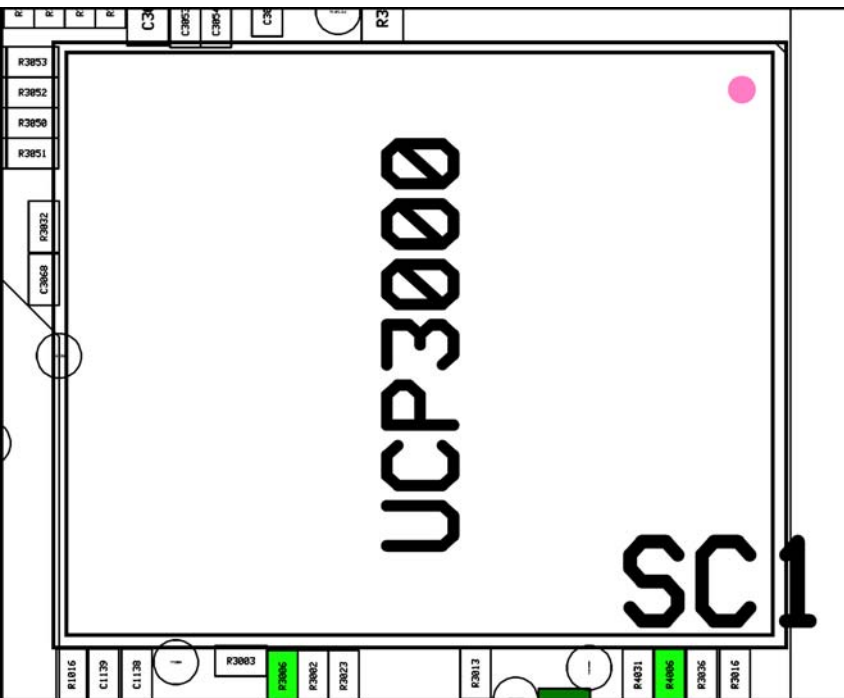
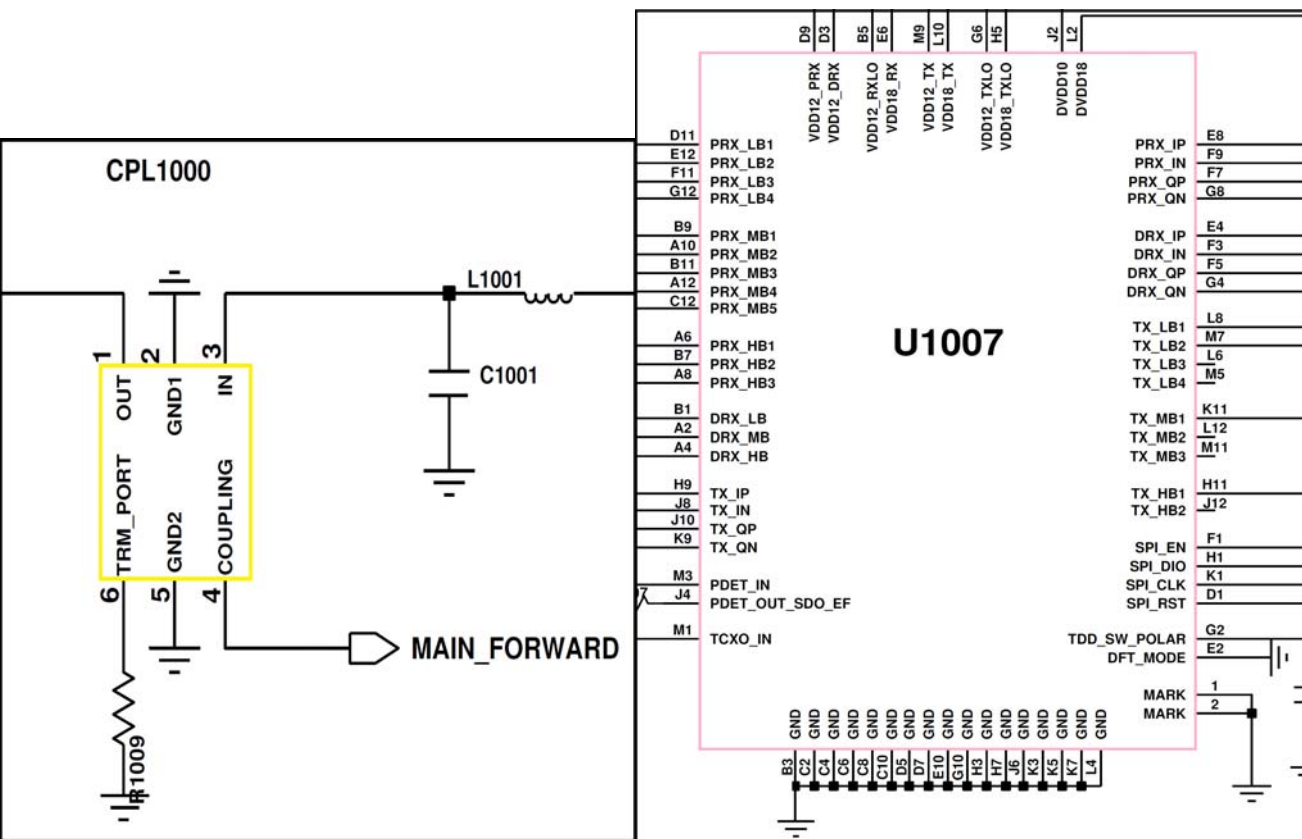


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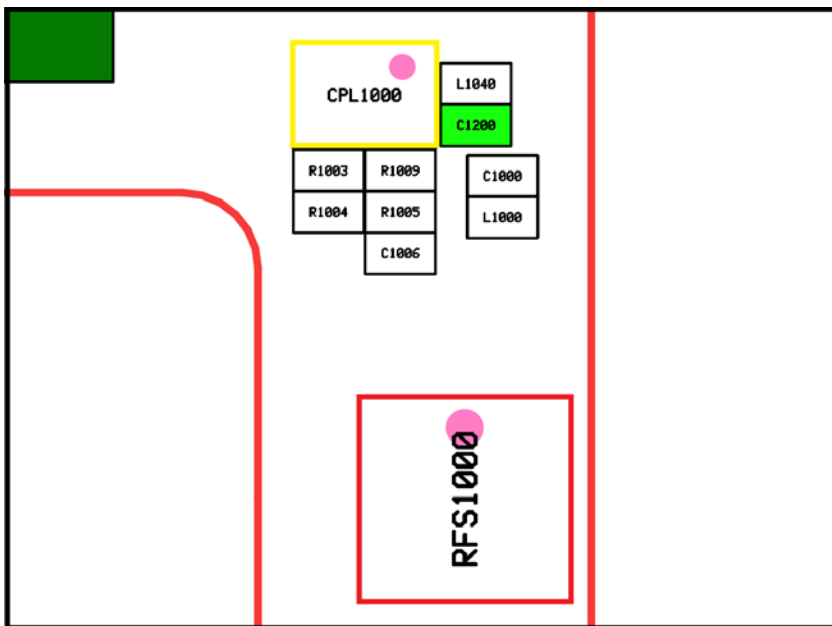
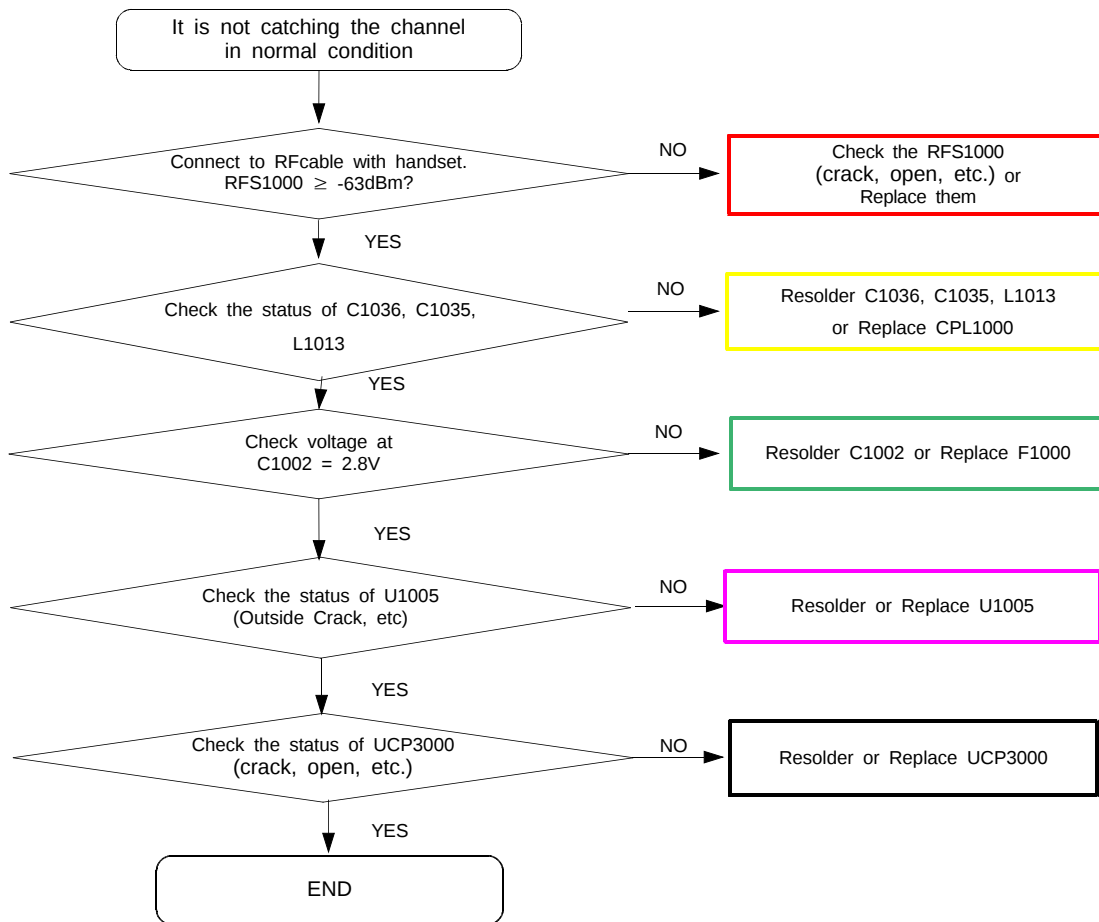
8-4-16. GSM1800 / LTE B3 Rx

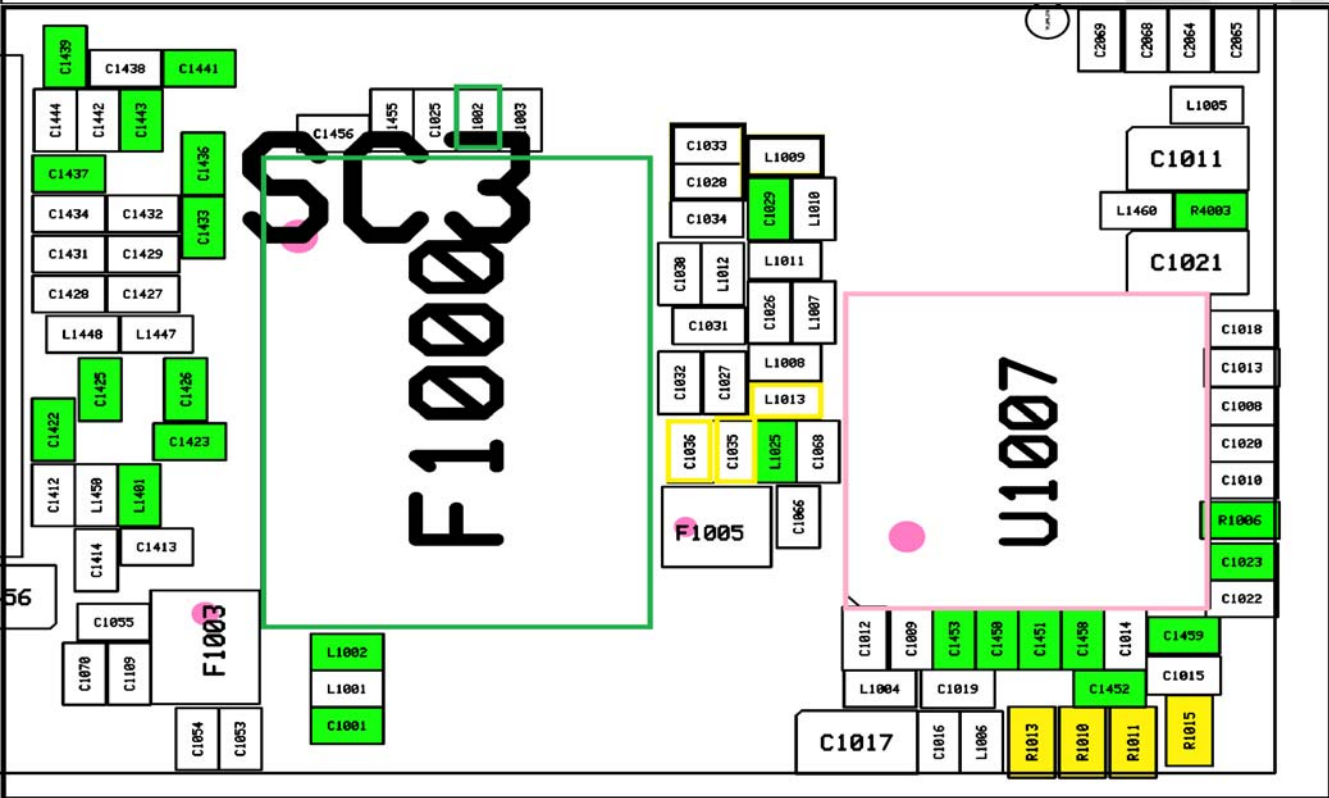


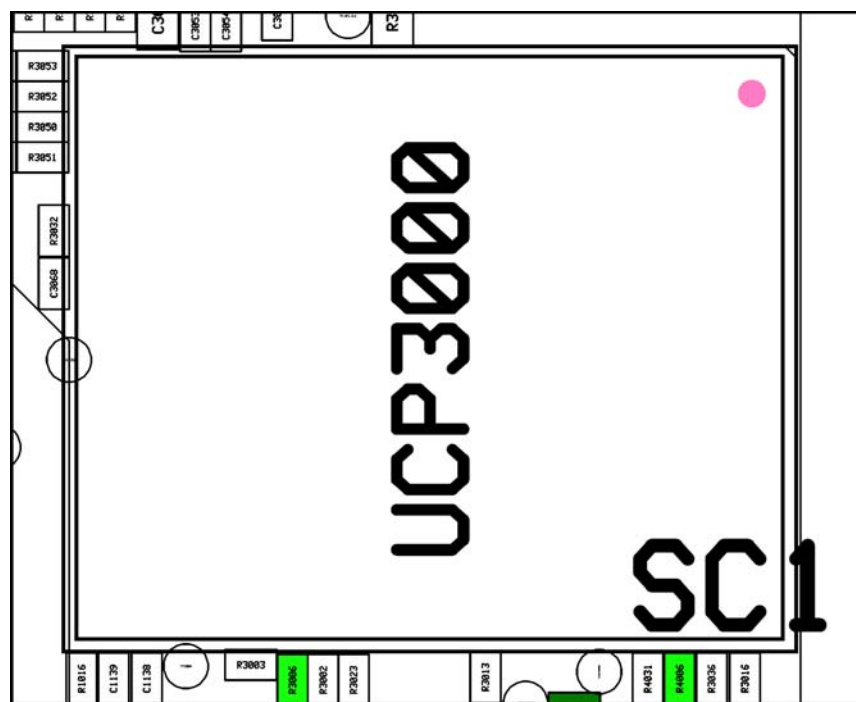
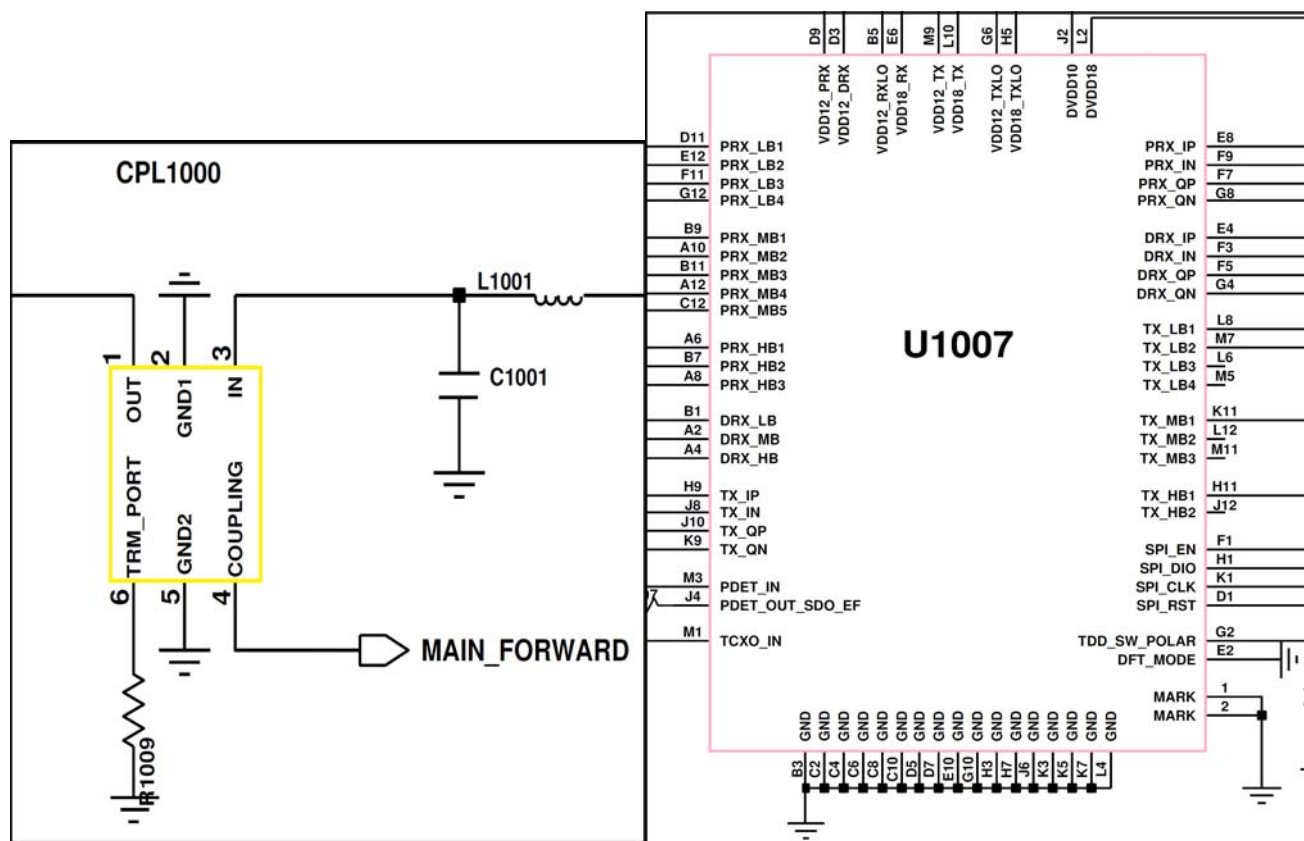
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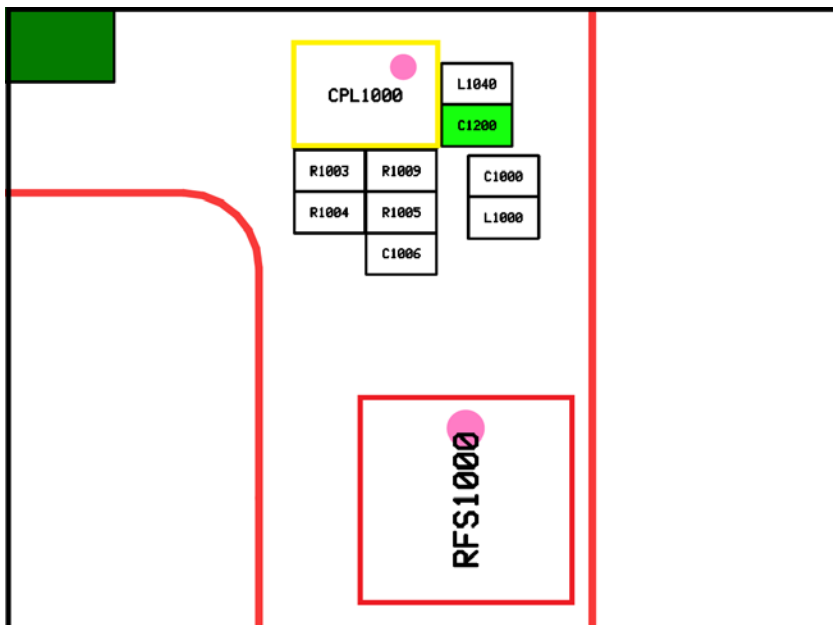
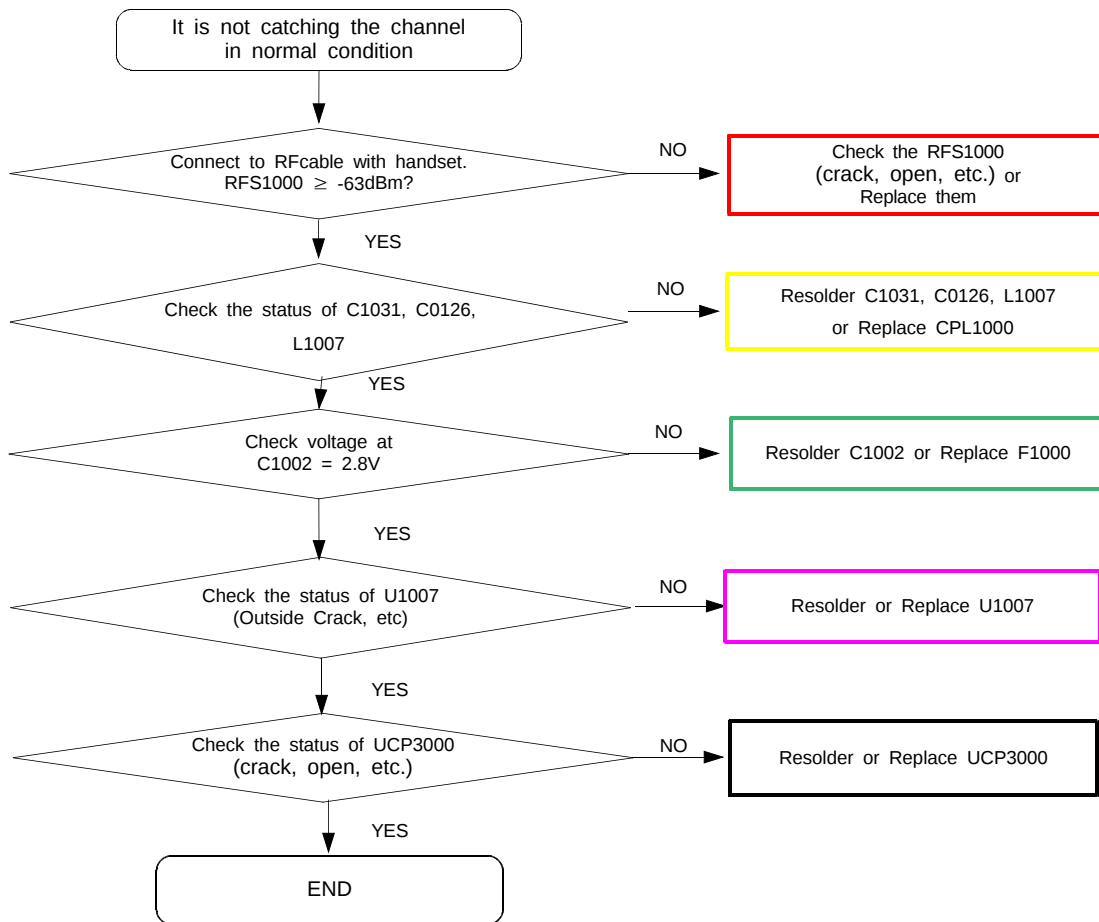
8-4-17. WCDMA Band1 / LTE Band1 Rx

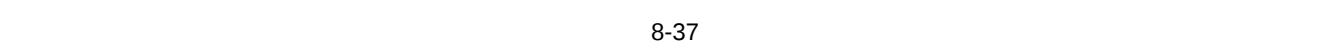


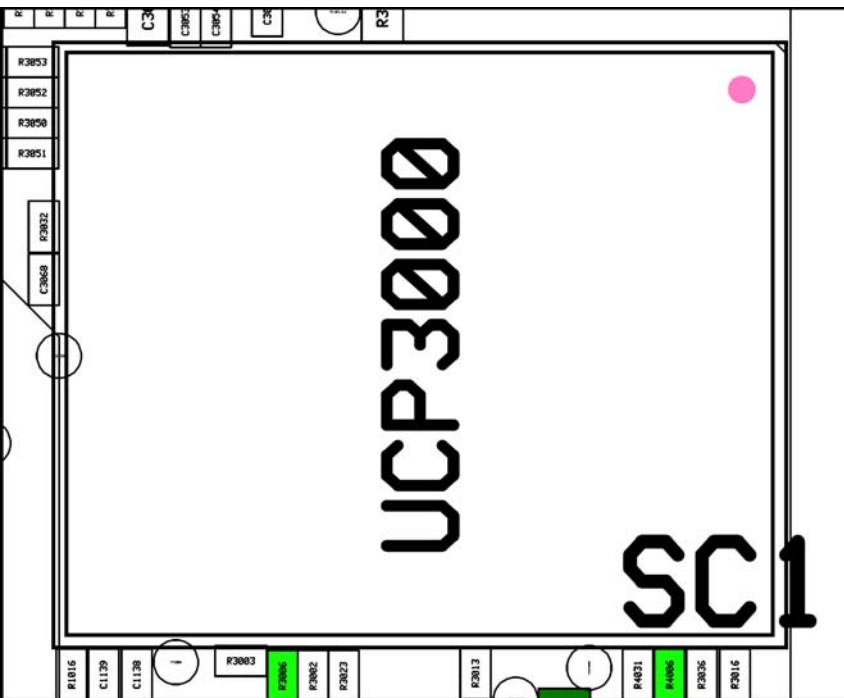
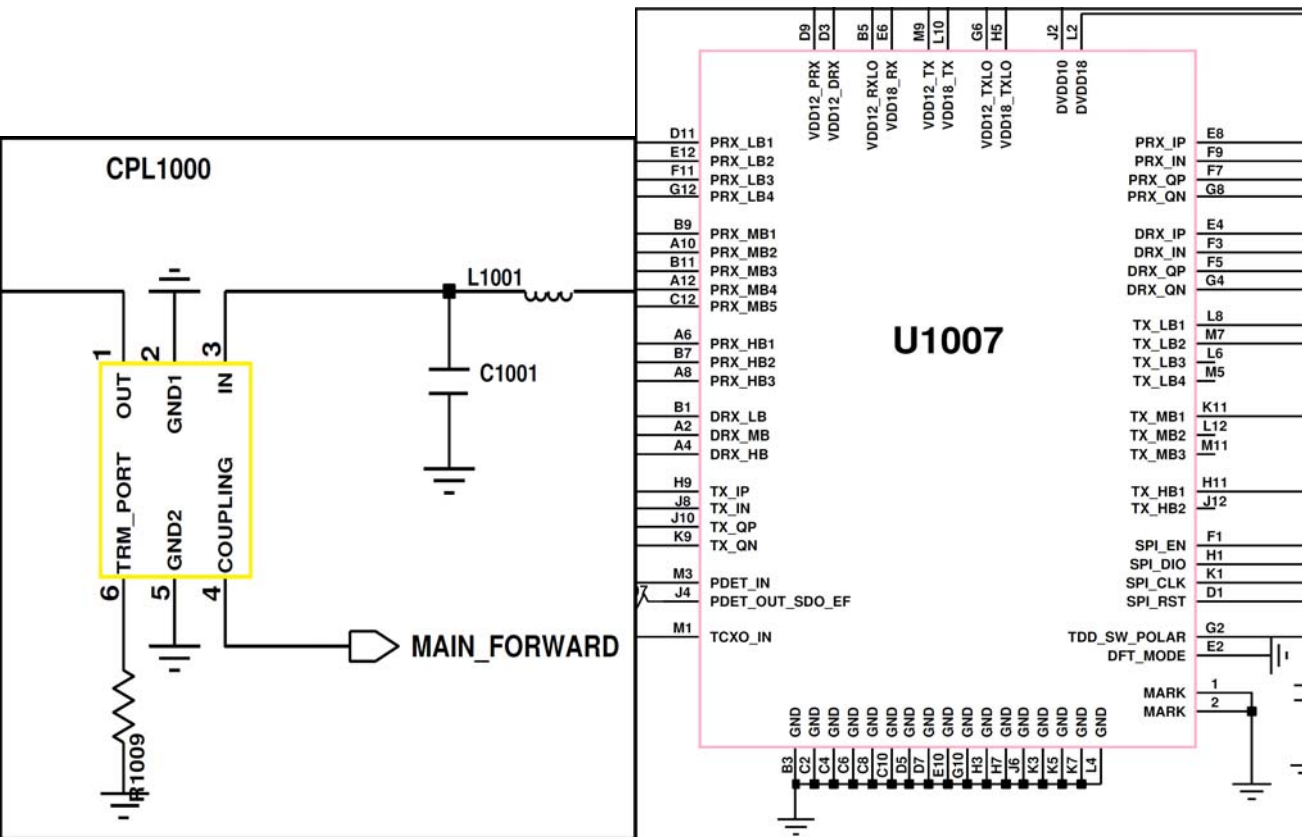




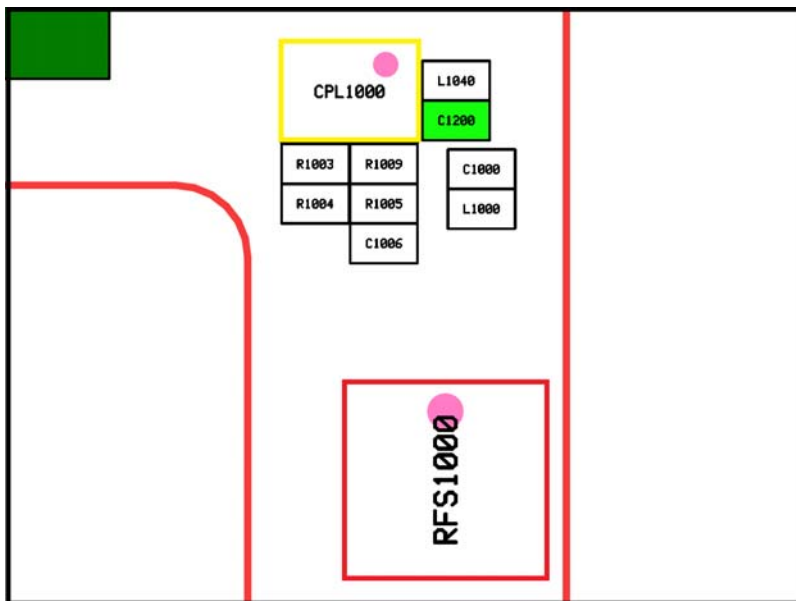
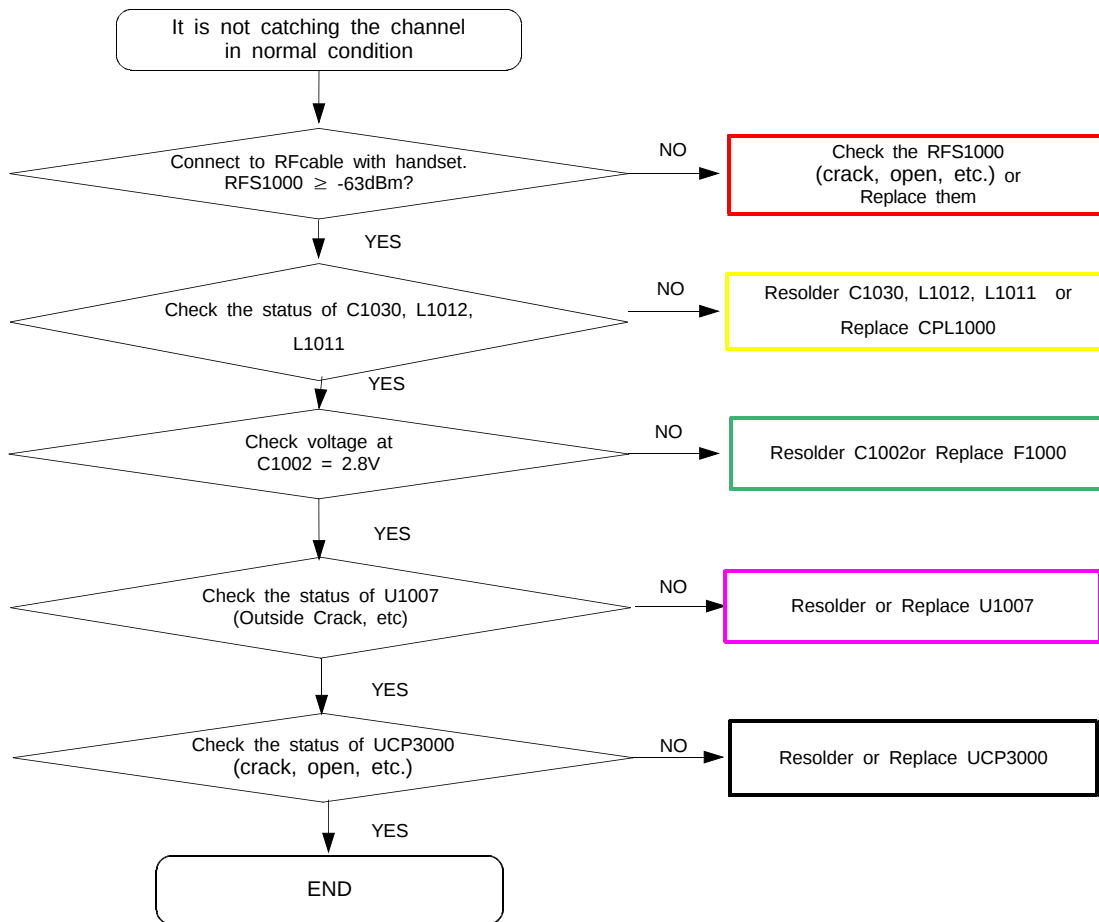
8-4-18. GSM1900 / WCDMA band1900 Rx



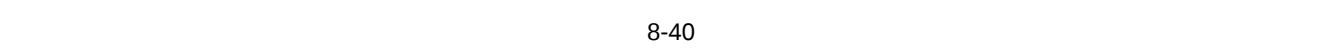


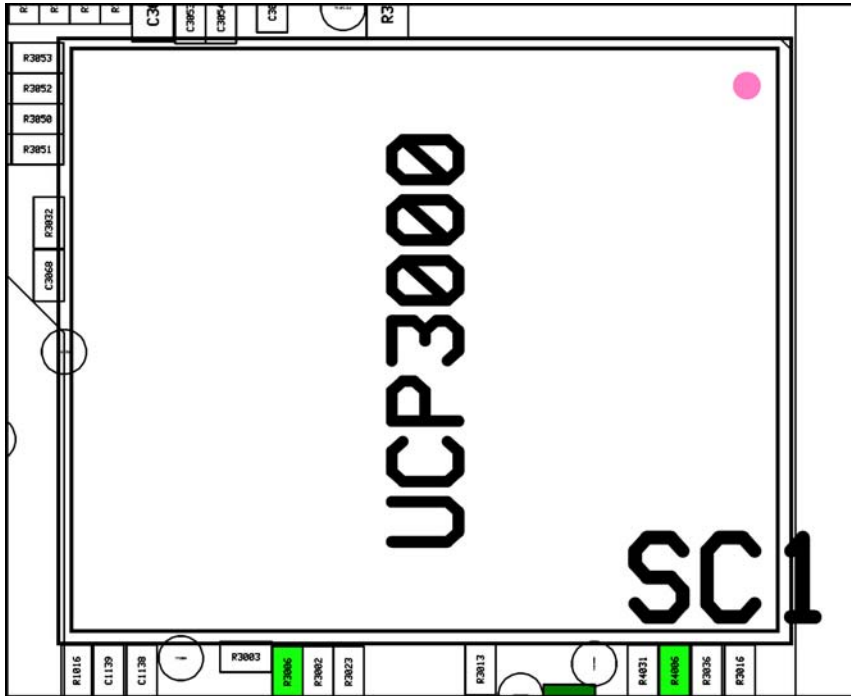


8-4-19. LTE Band20 Rx

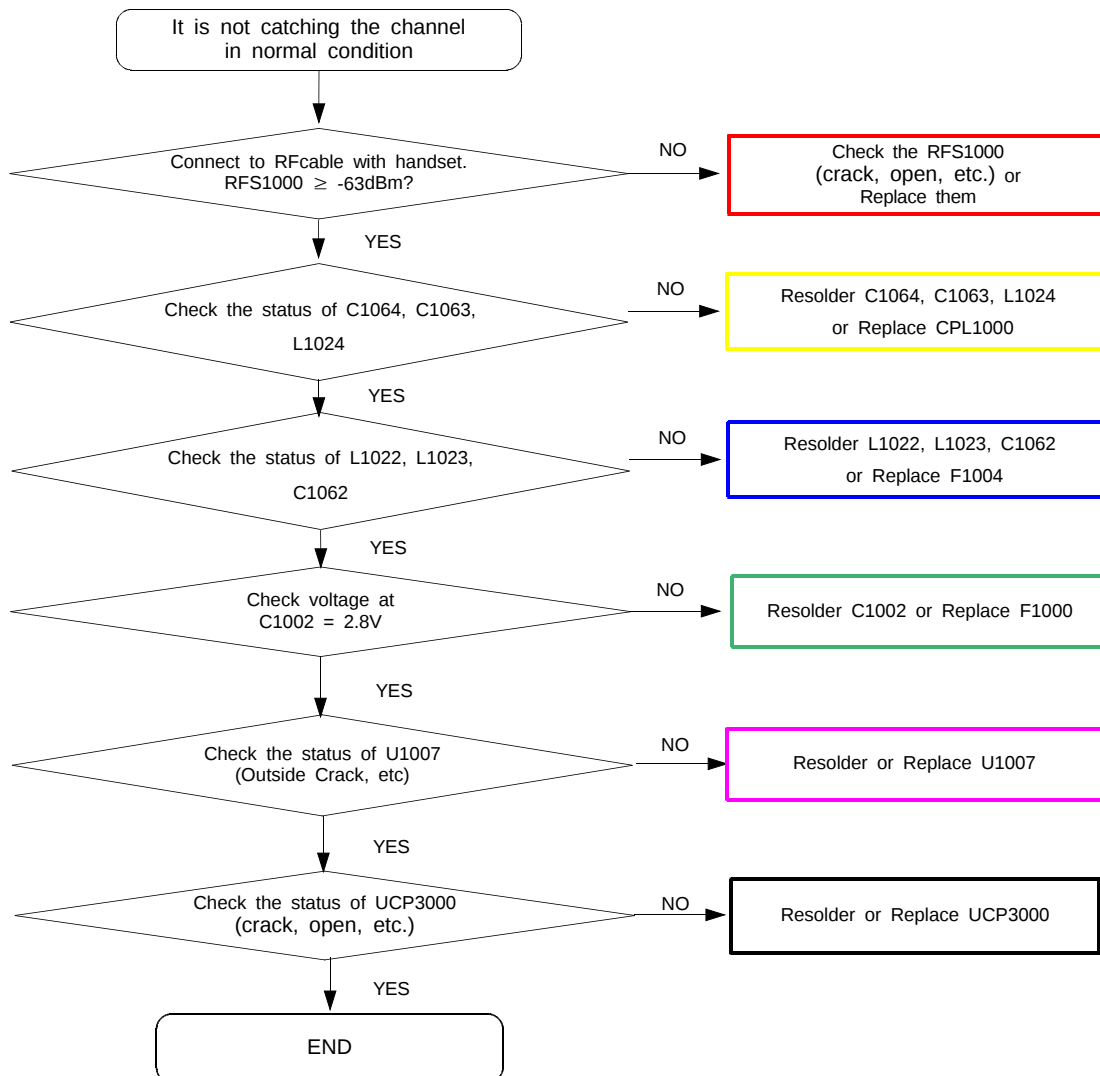


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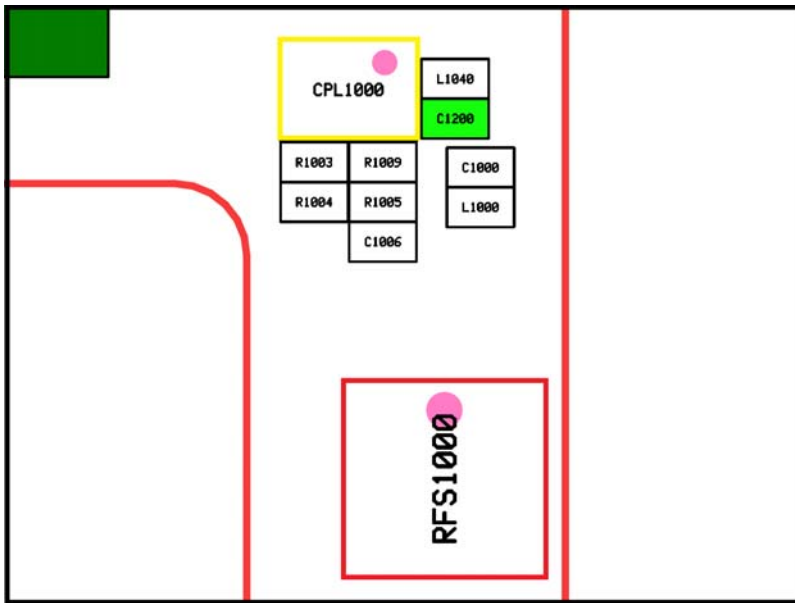




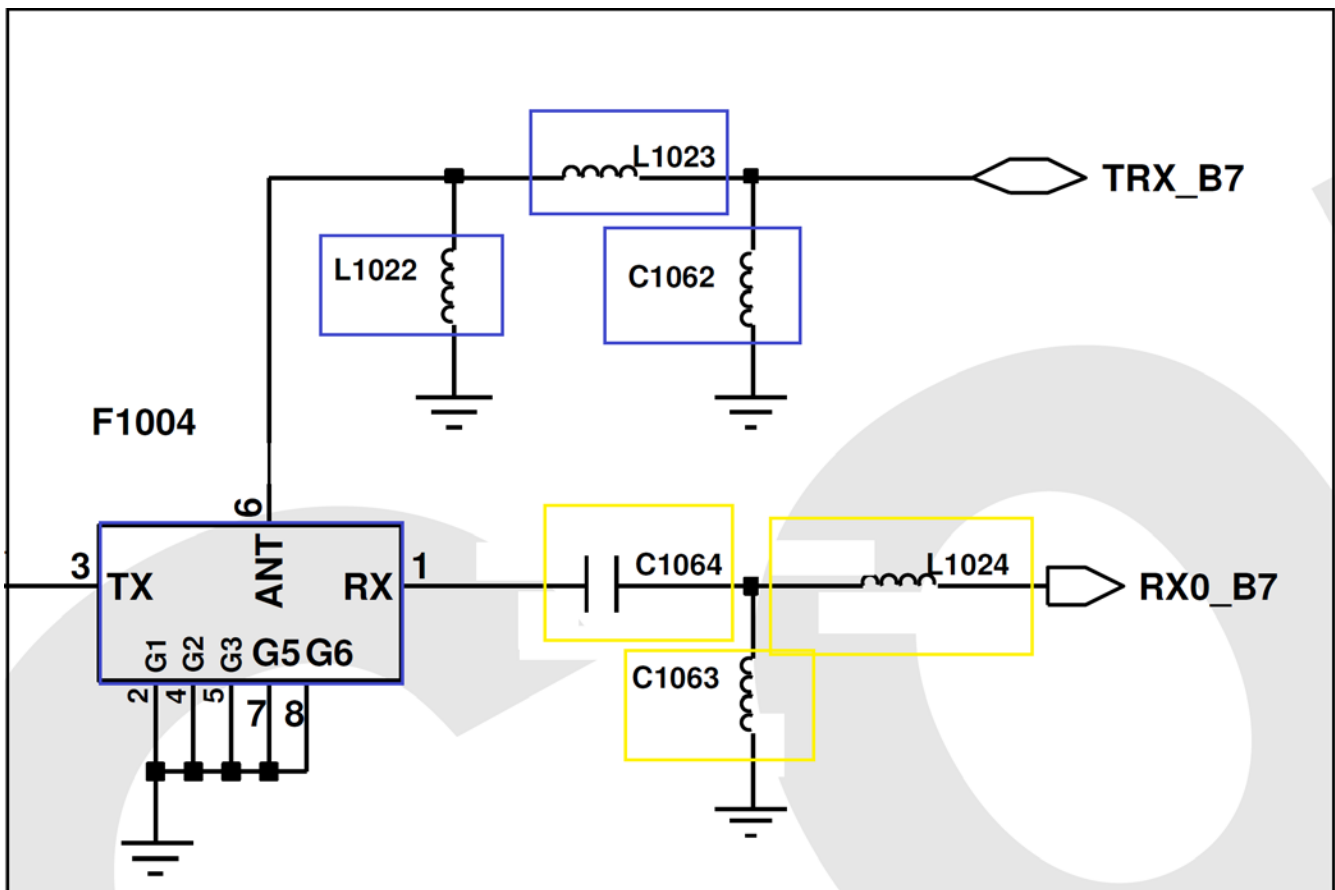
8-3-20. LTE B7 Rx

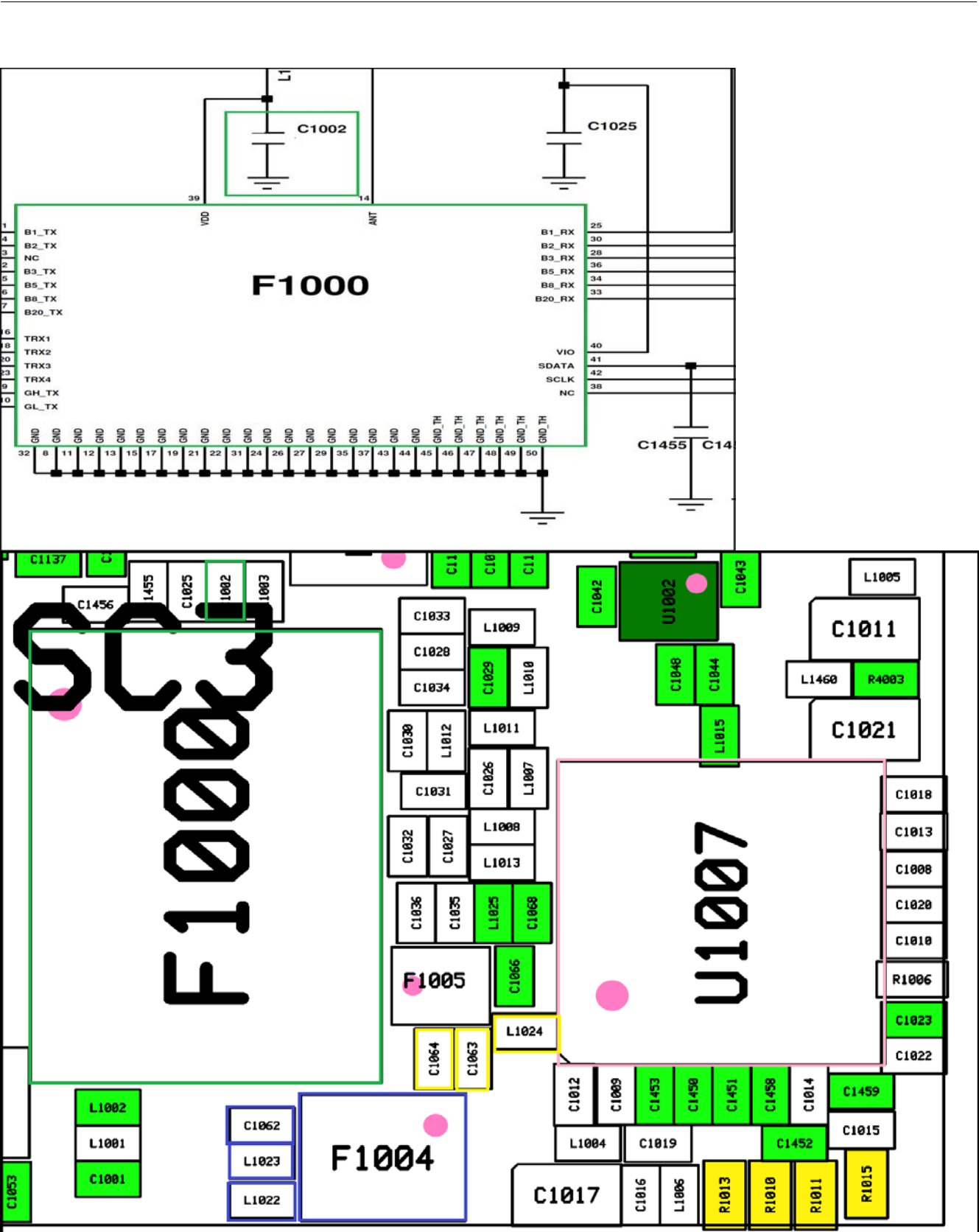


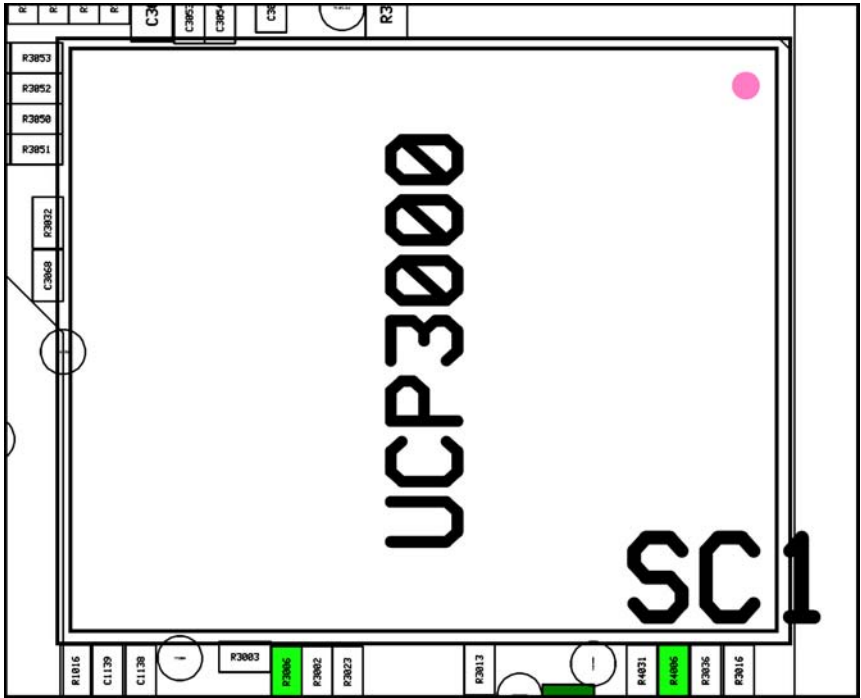
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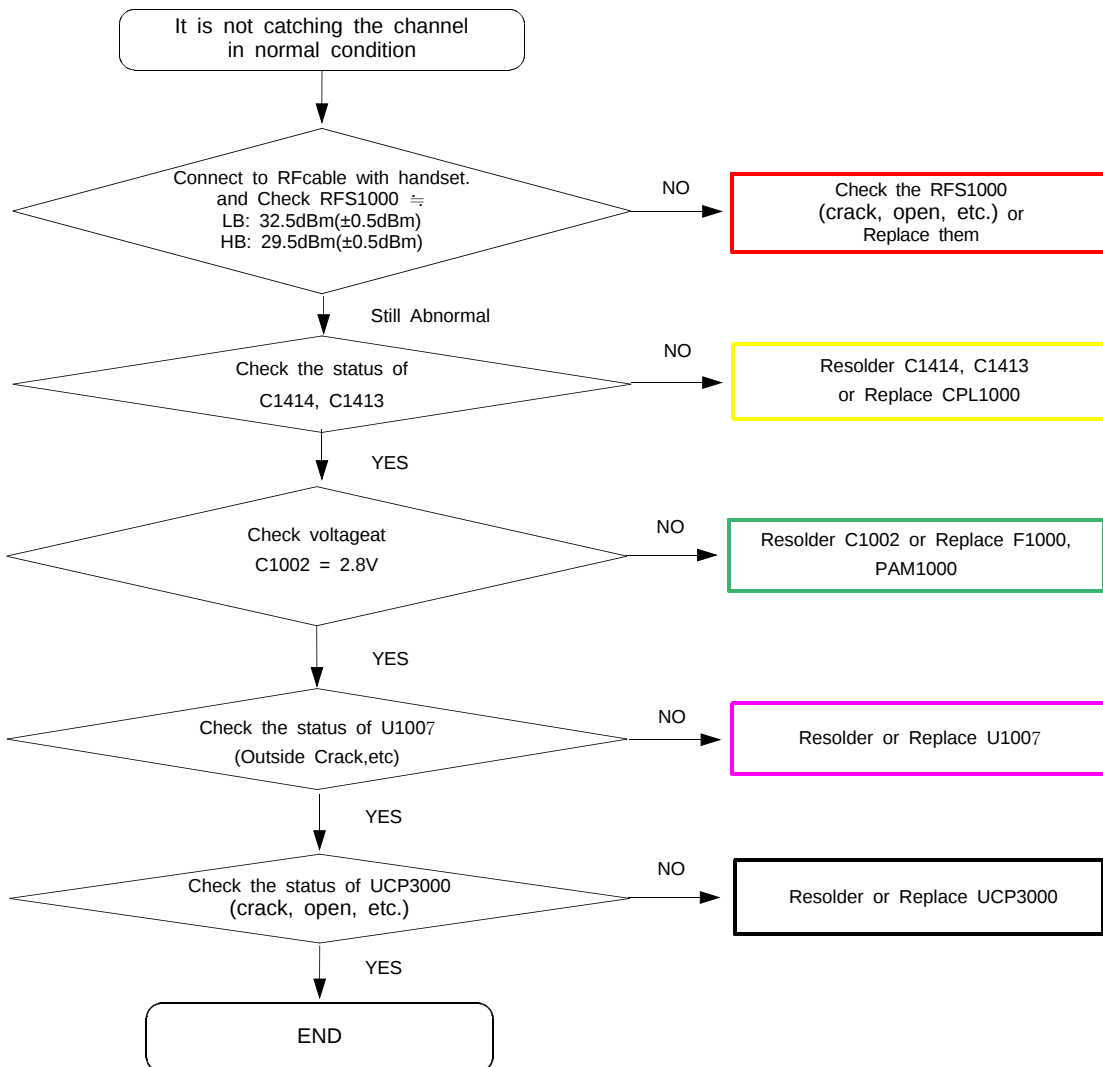
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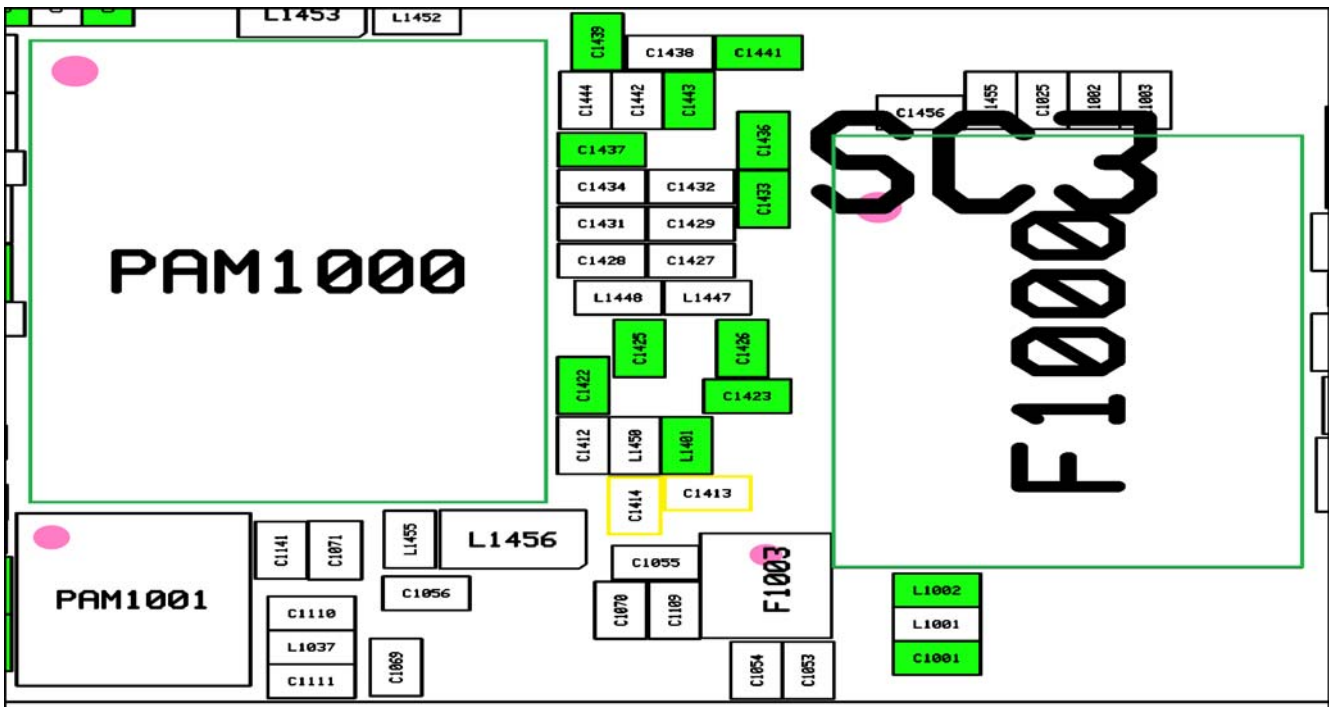
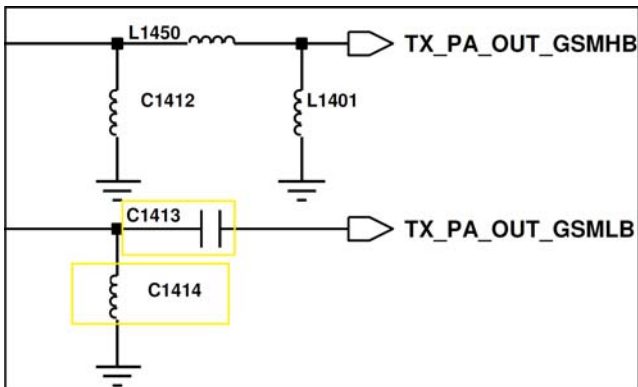
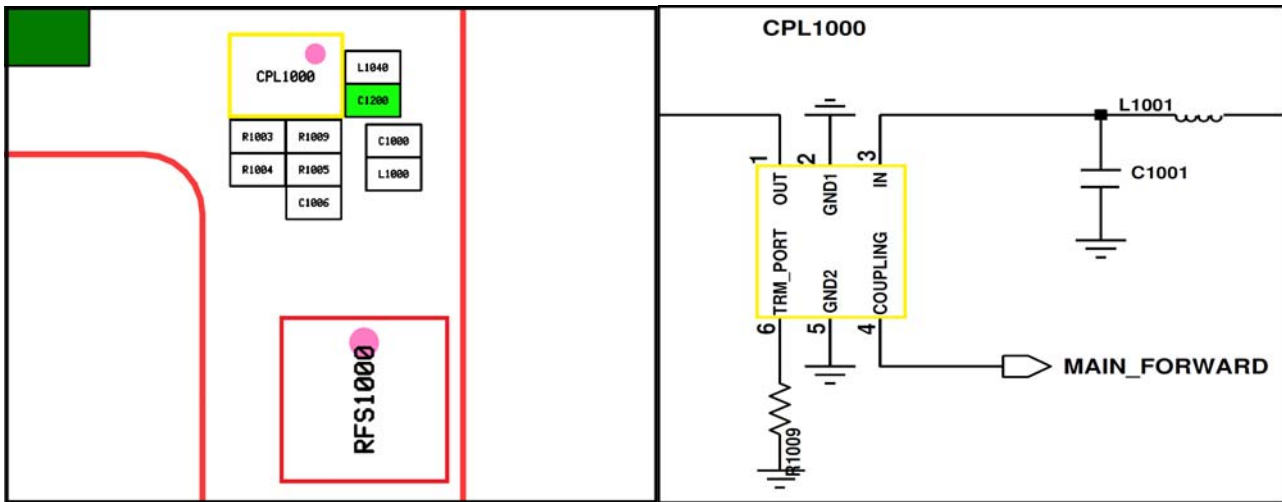


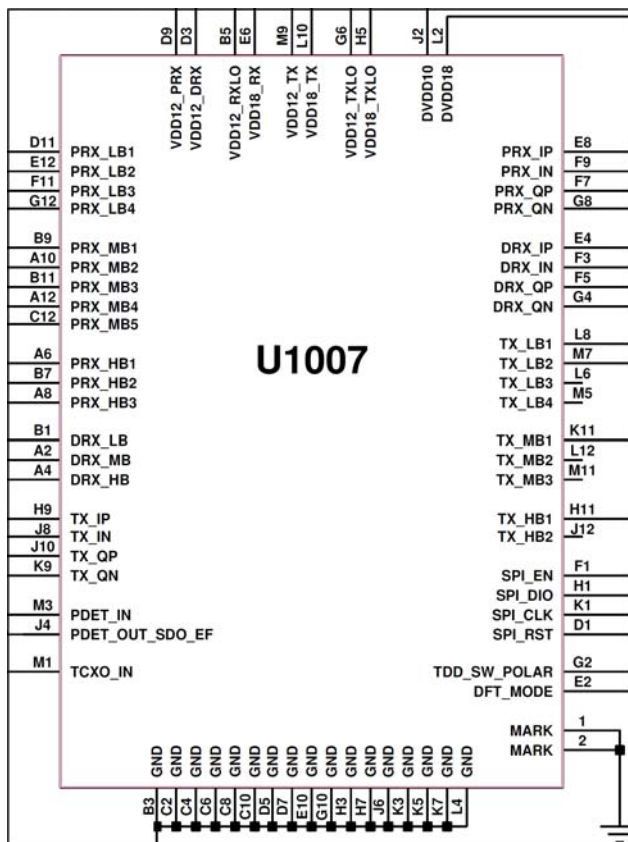
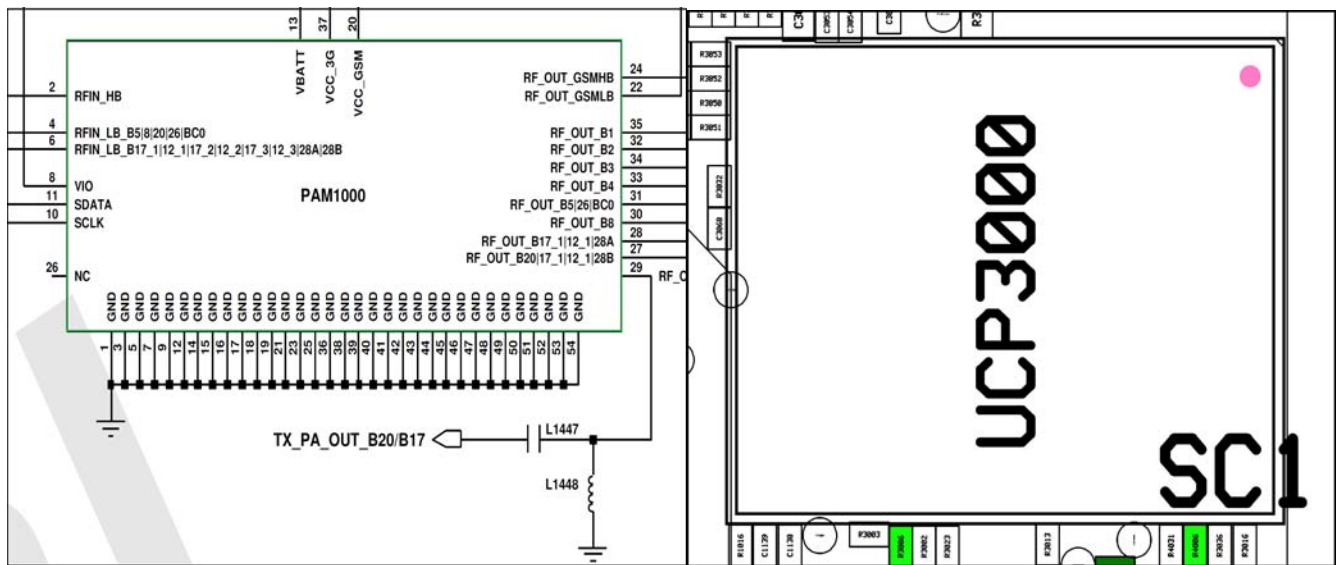


8-4-21. GSM850 / GSM900 Tx

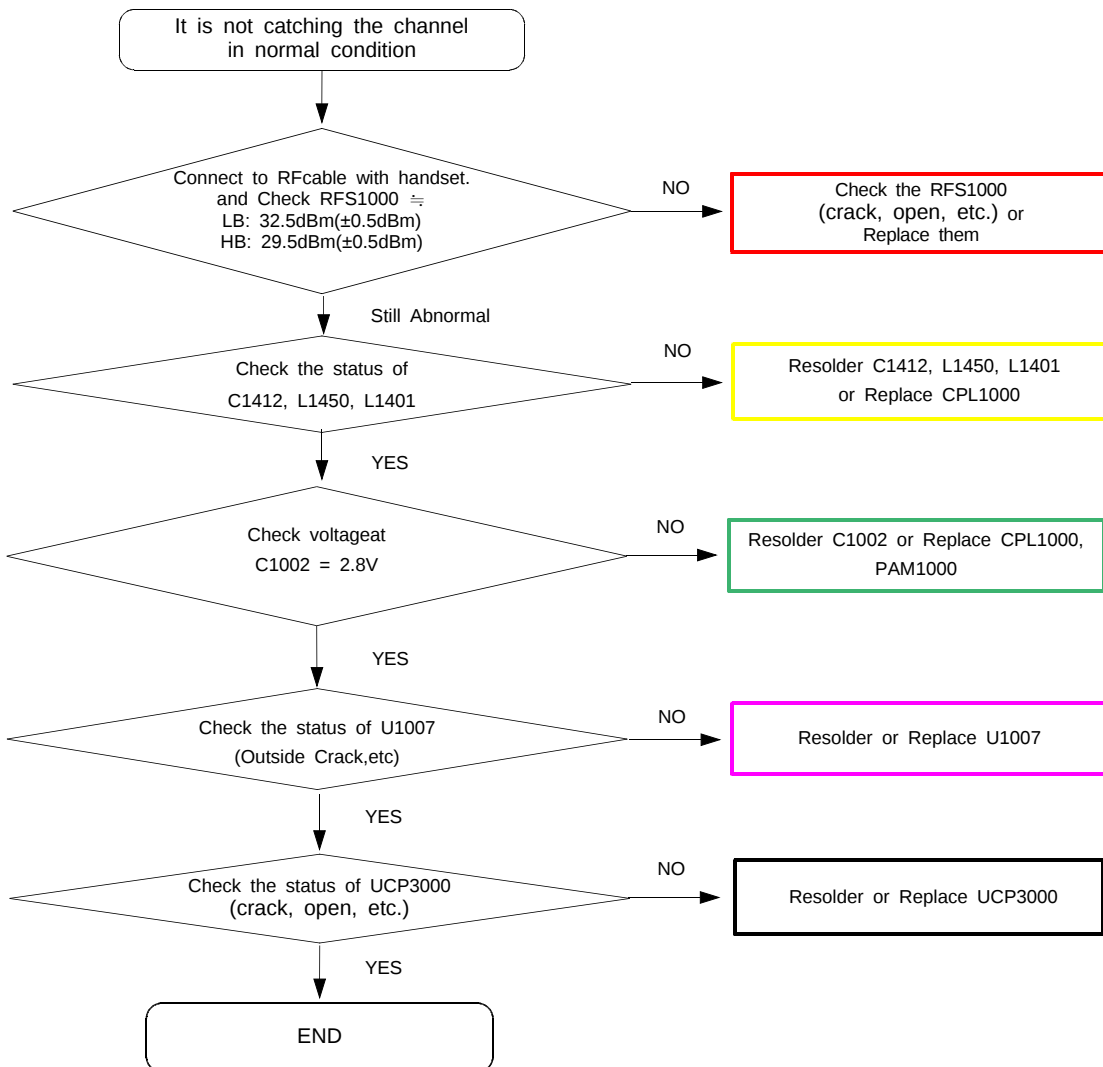


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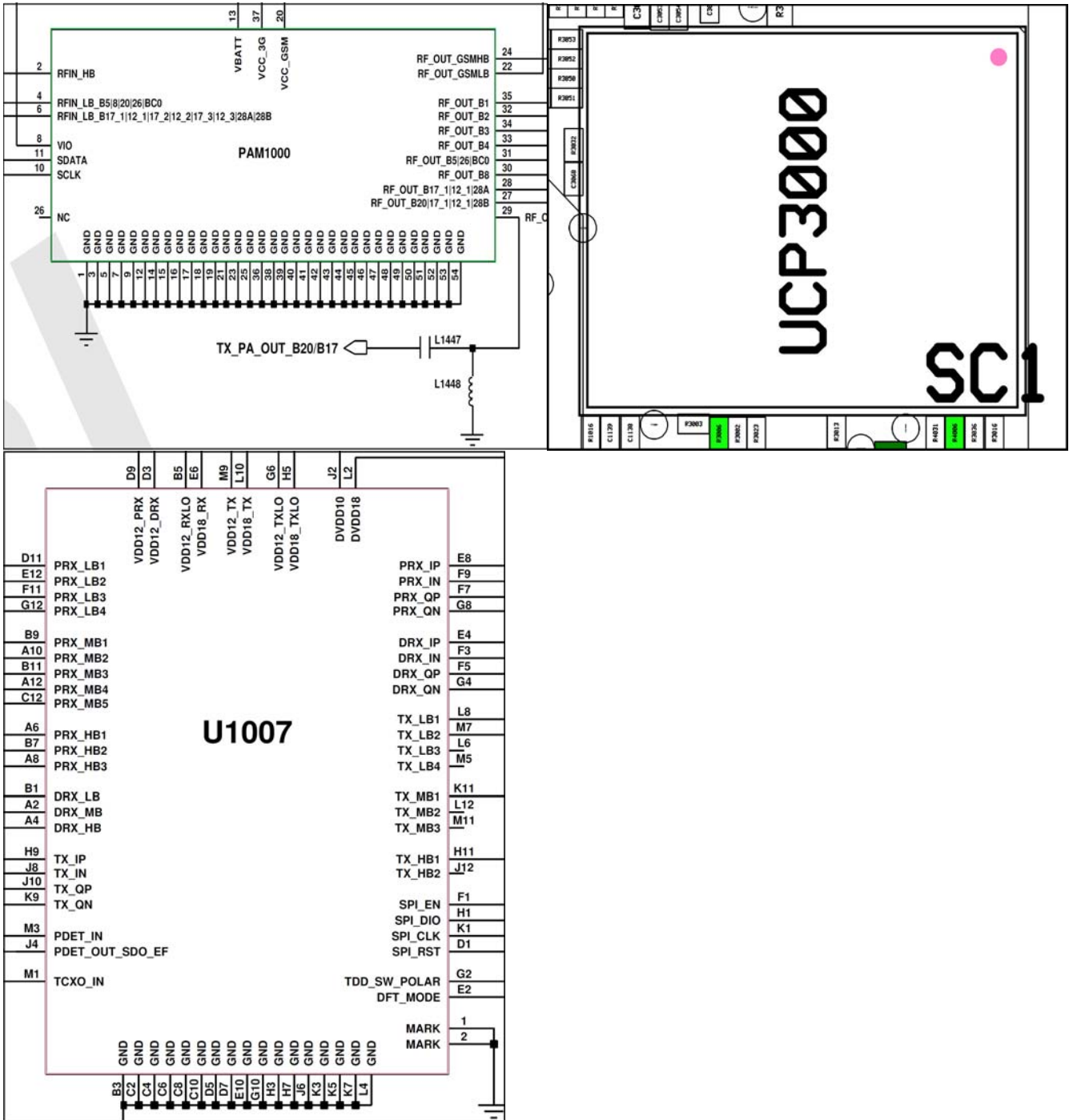




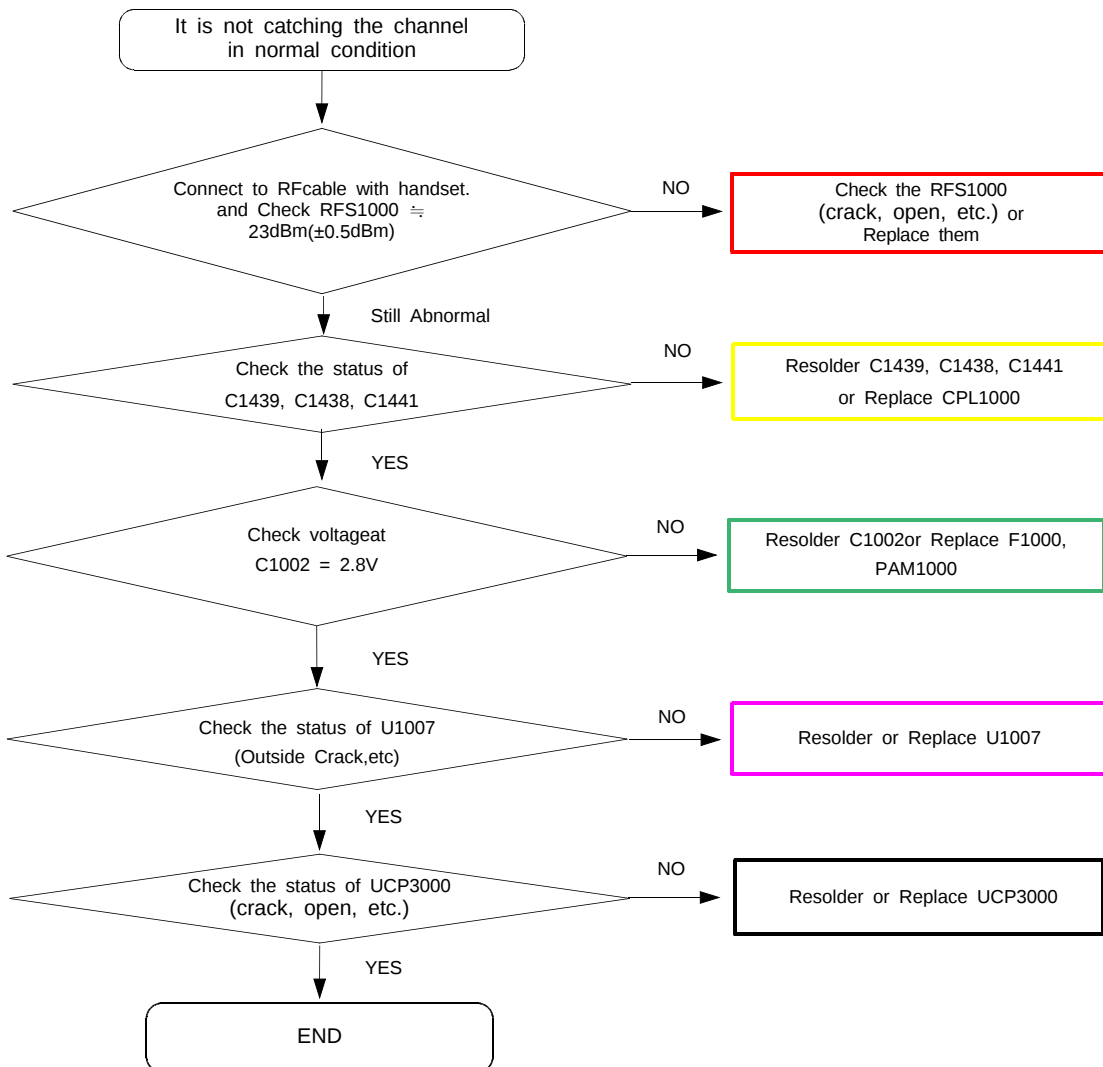
8-4-22. GSM1800 / GSM1900 Tx



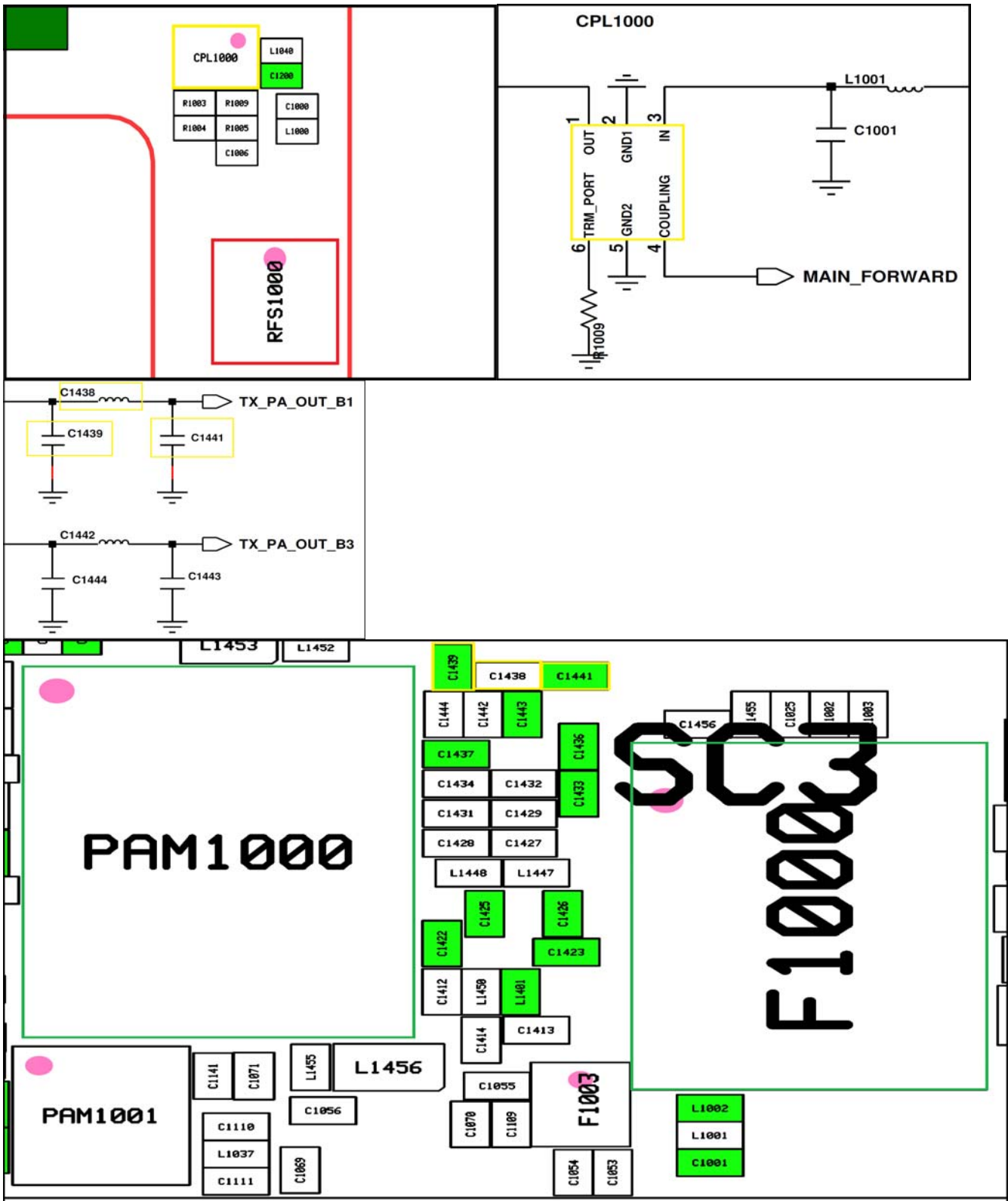
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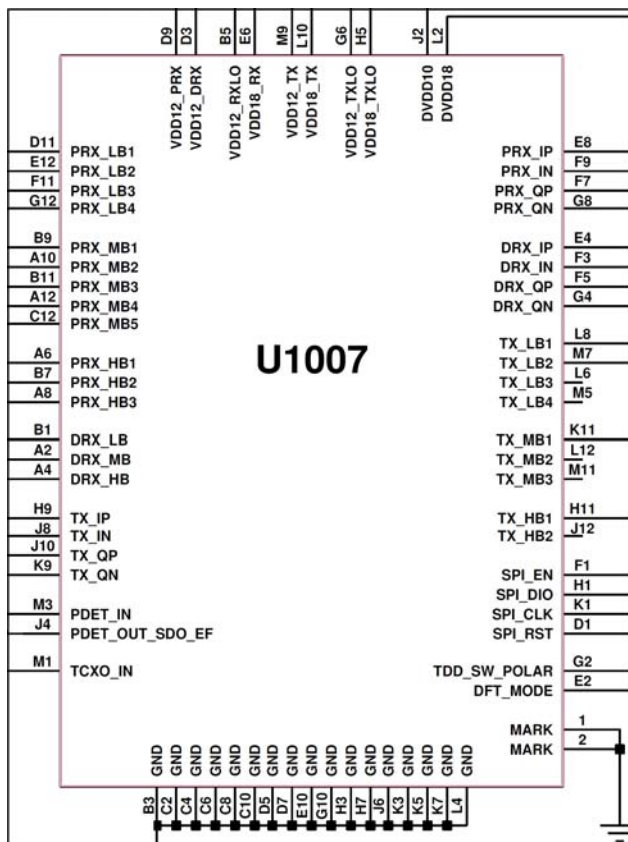
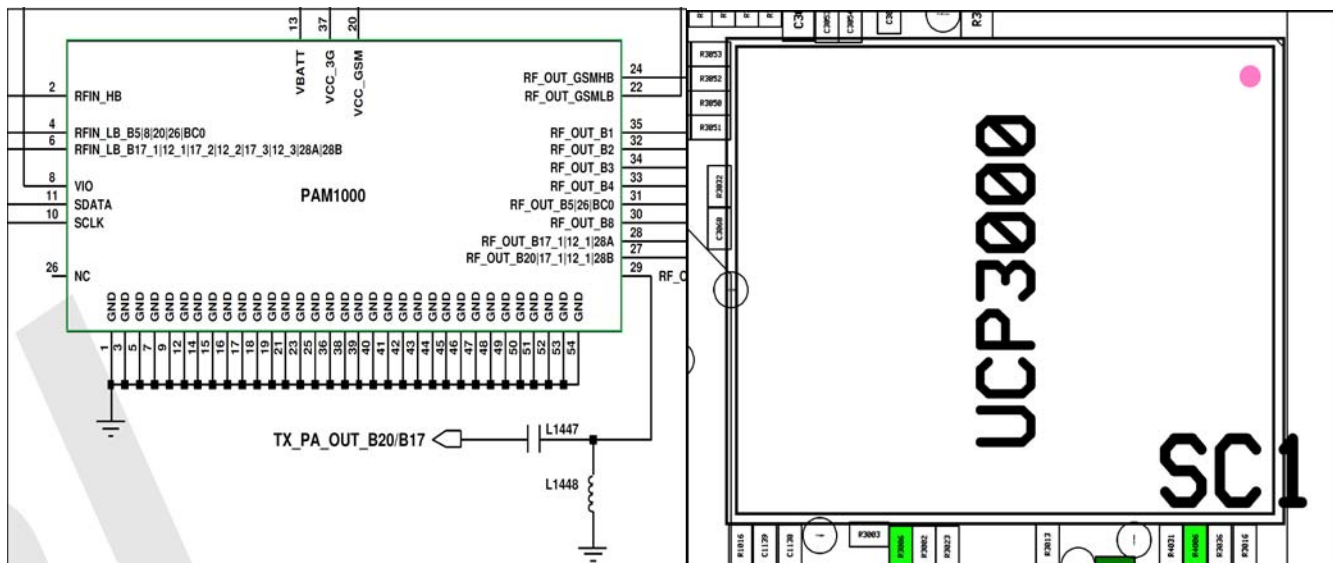


8-4-23. WCDMA Band1 / LTE Band1 Tx



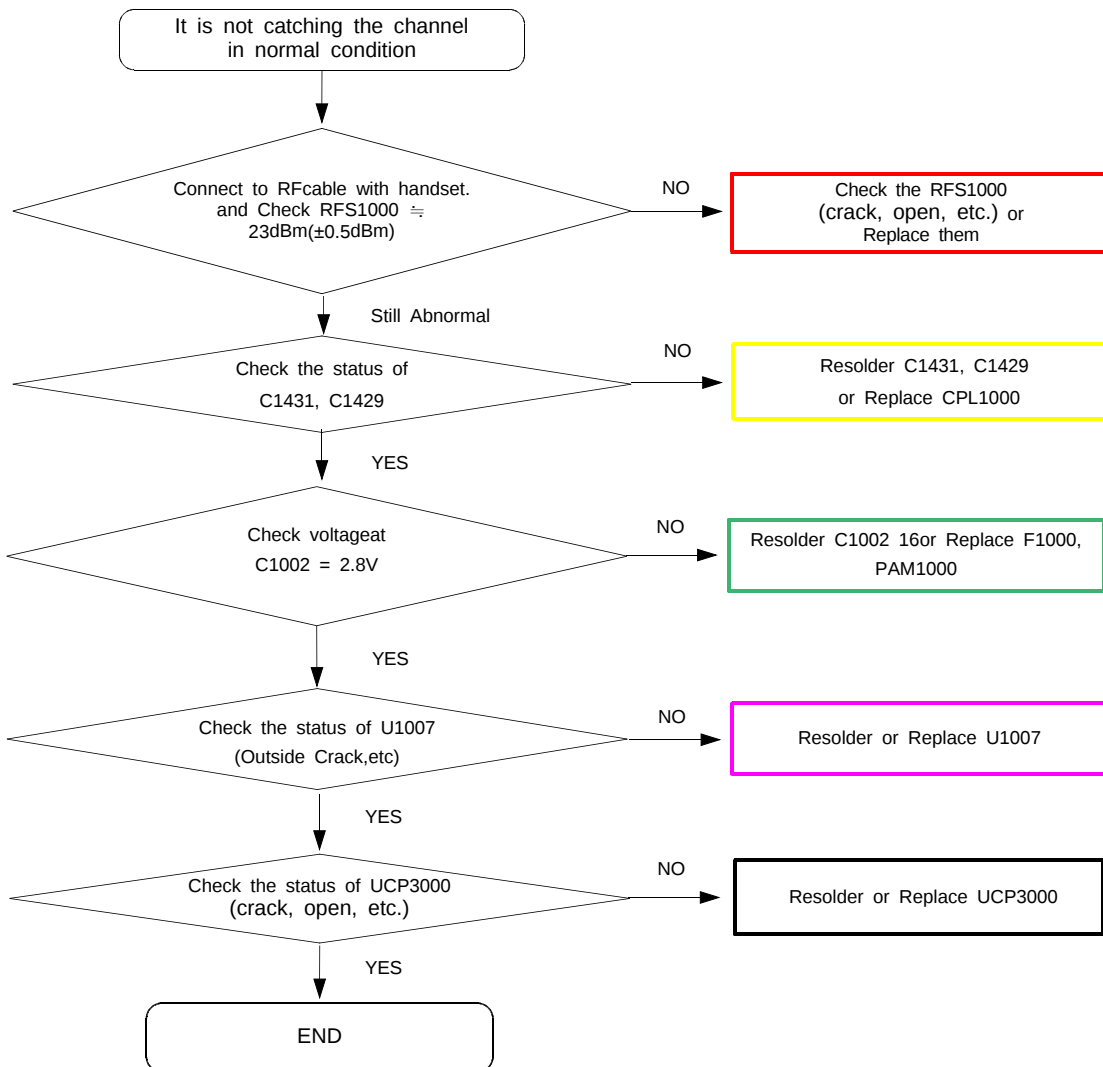
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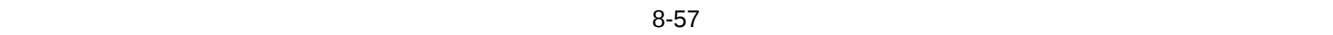


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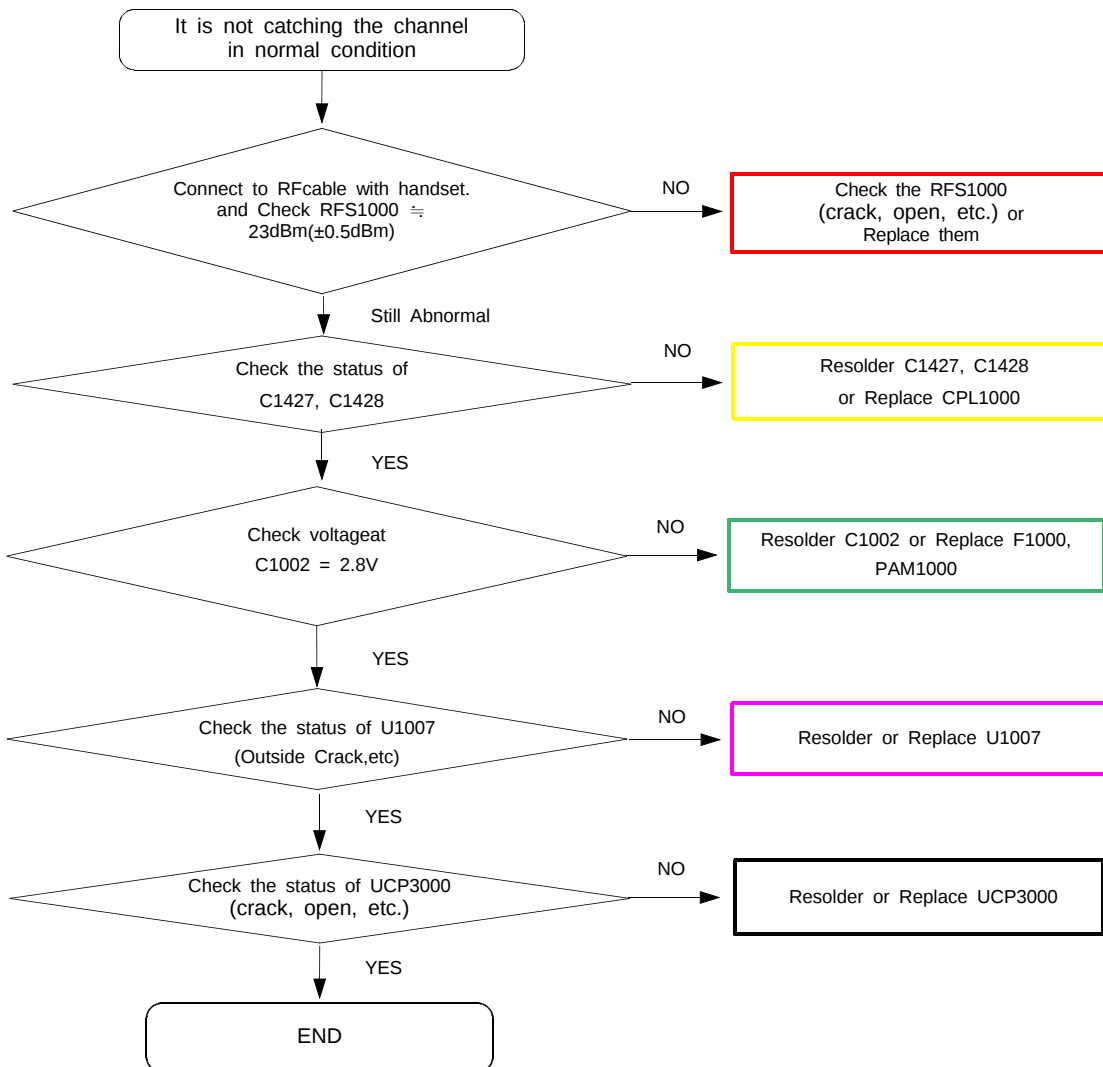
8-4-24. WCDMA Band5 / LTE B5 Tx



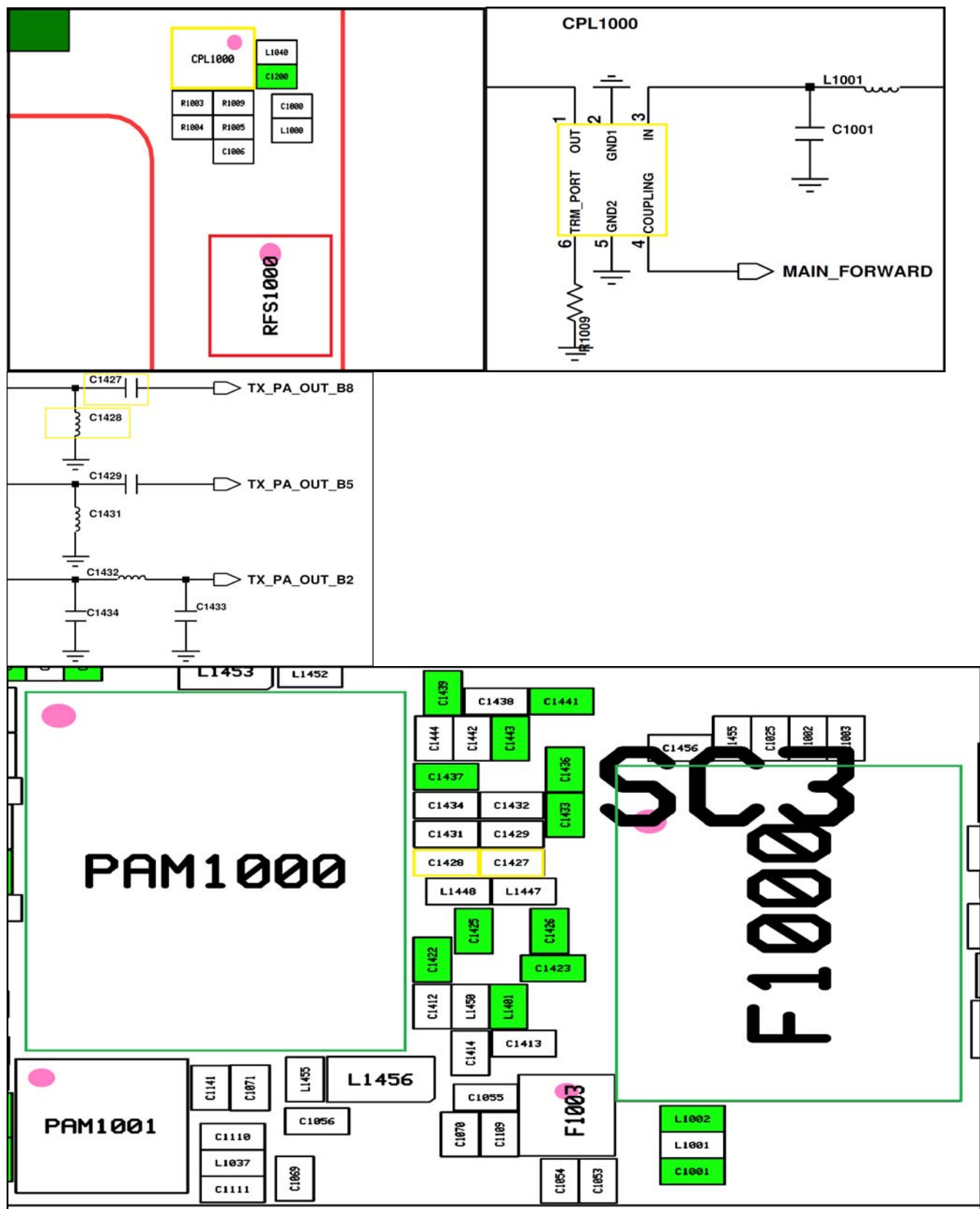
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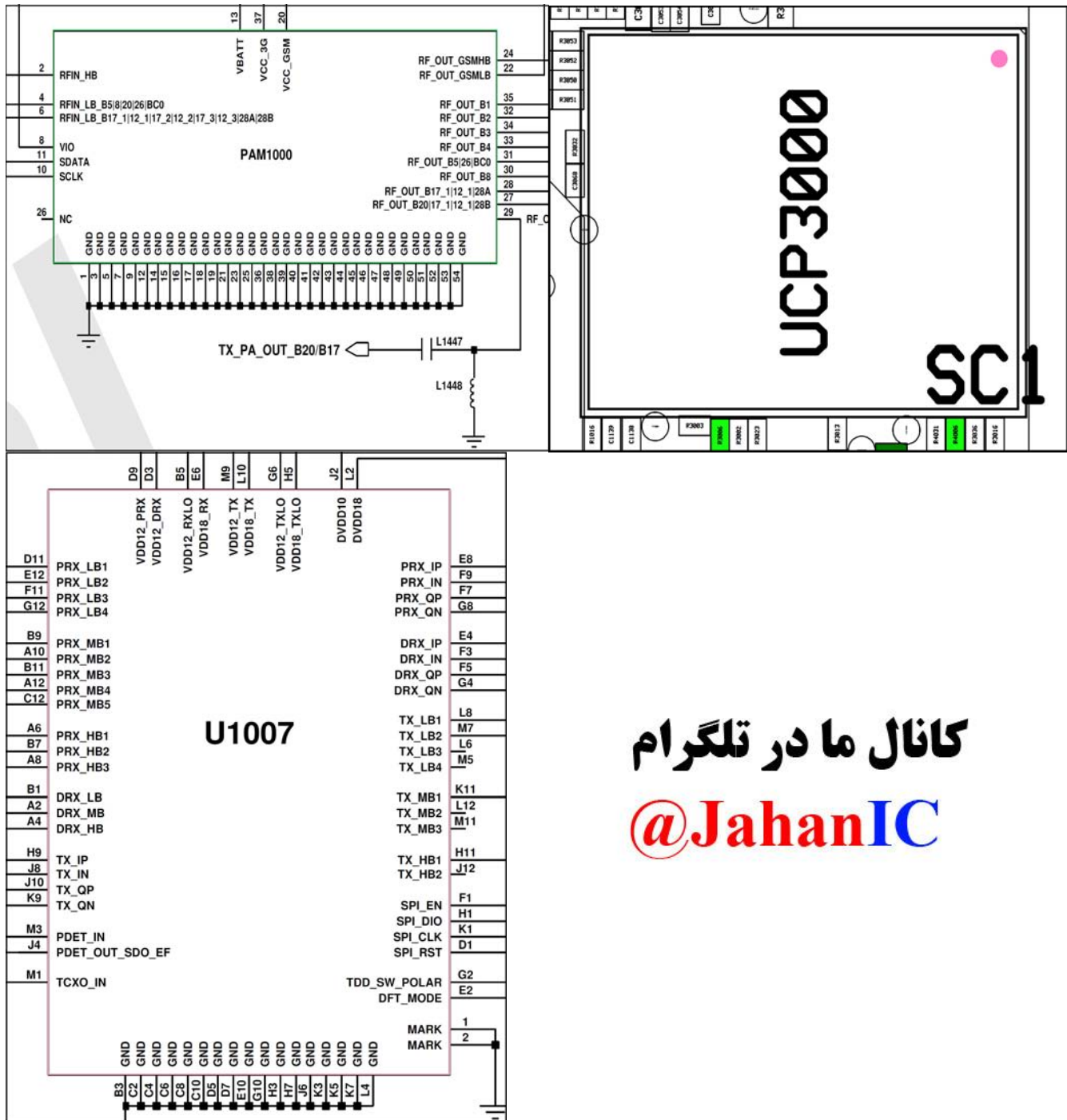


8-4-25. WCDMA Band8 / LTE Band8 Tx



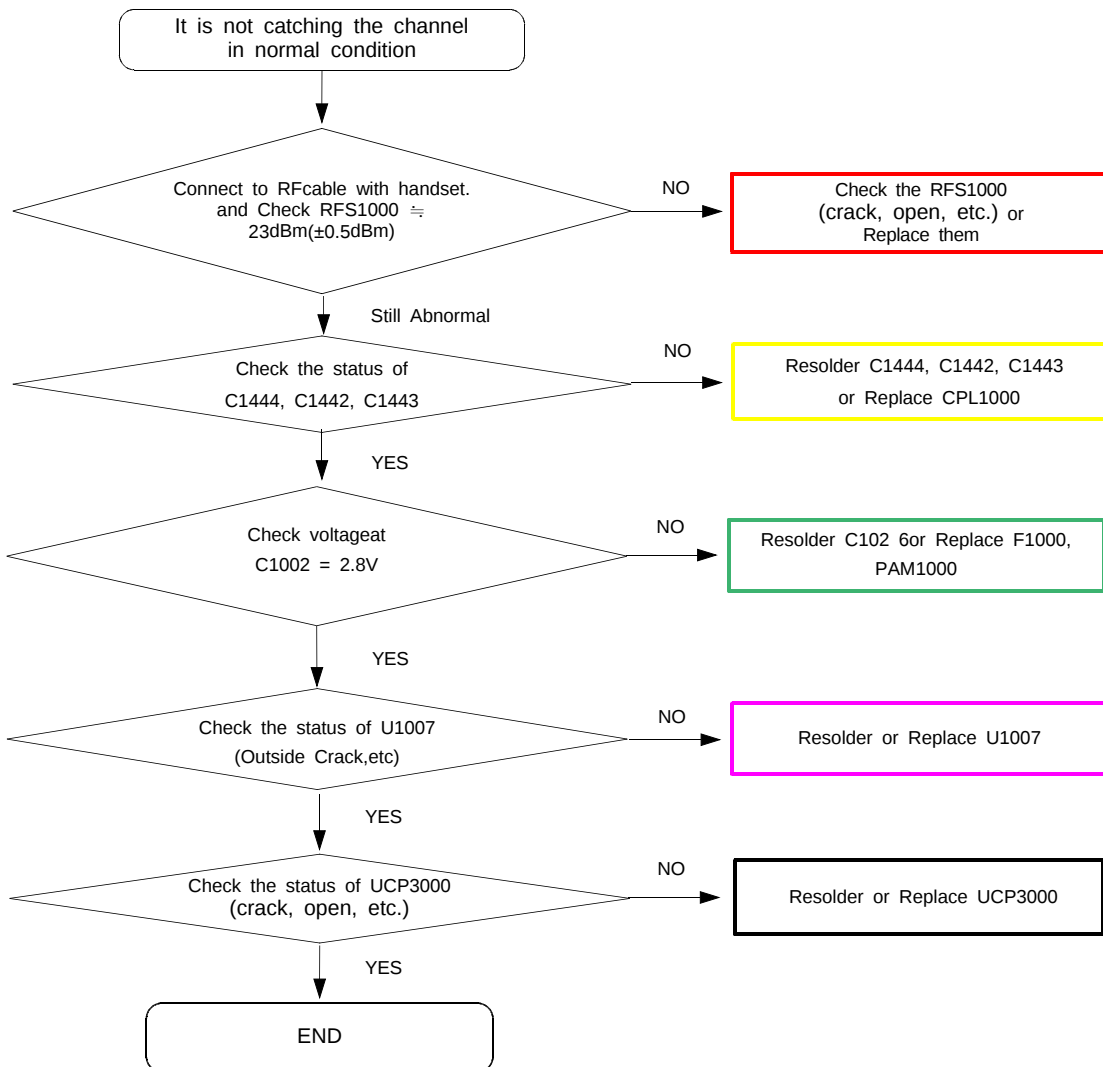
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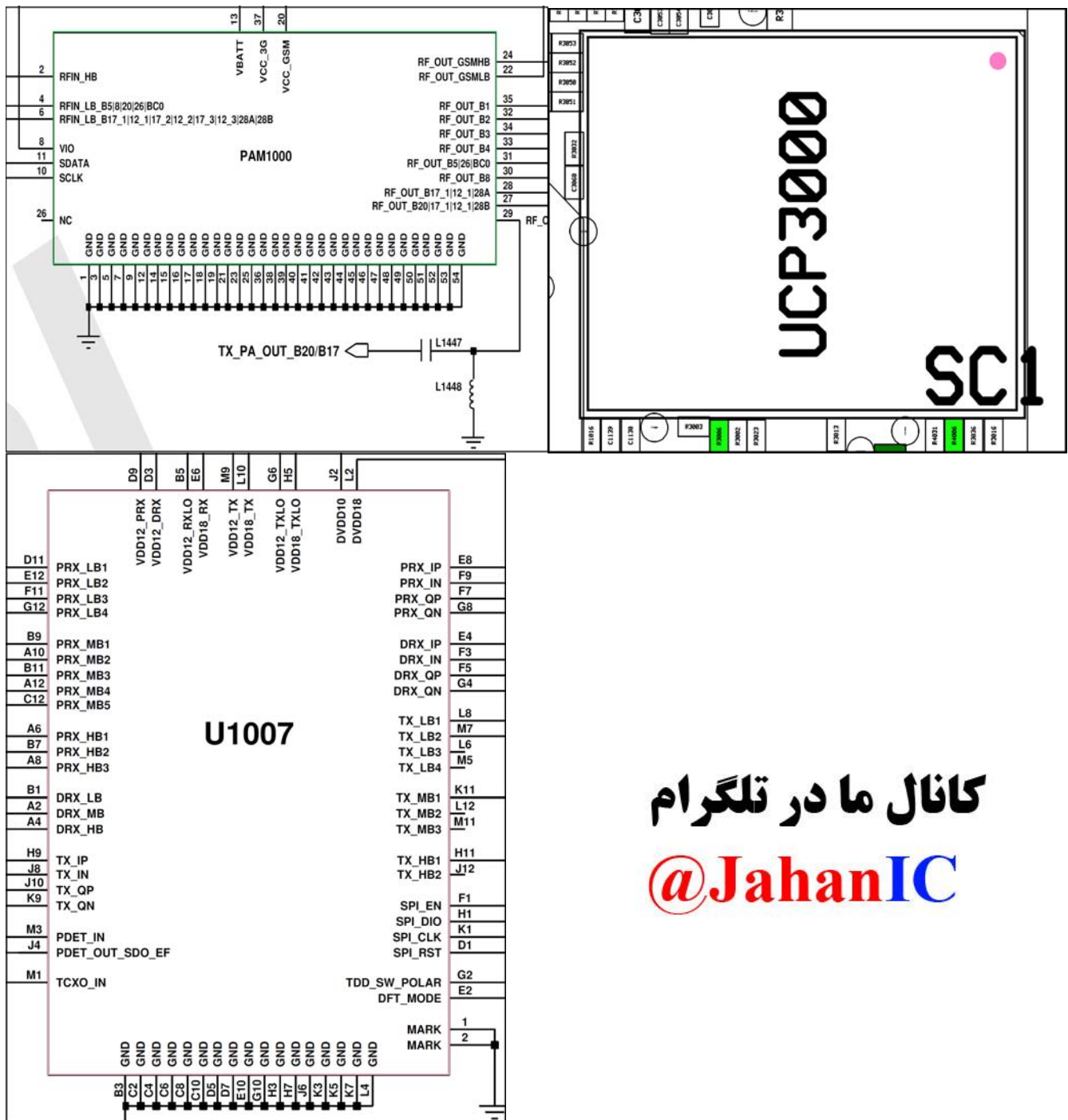




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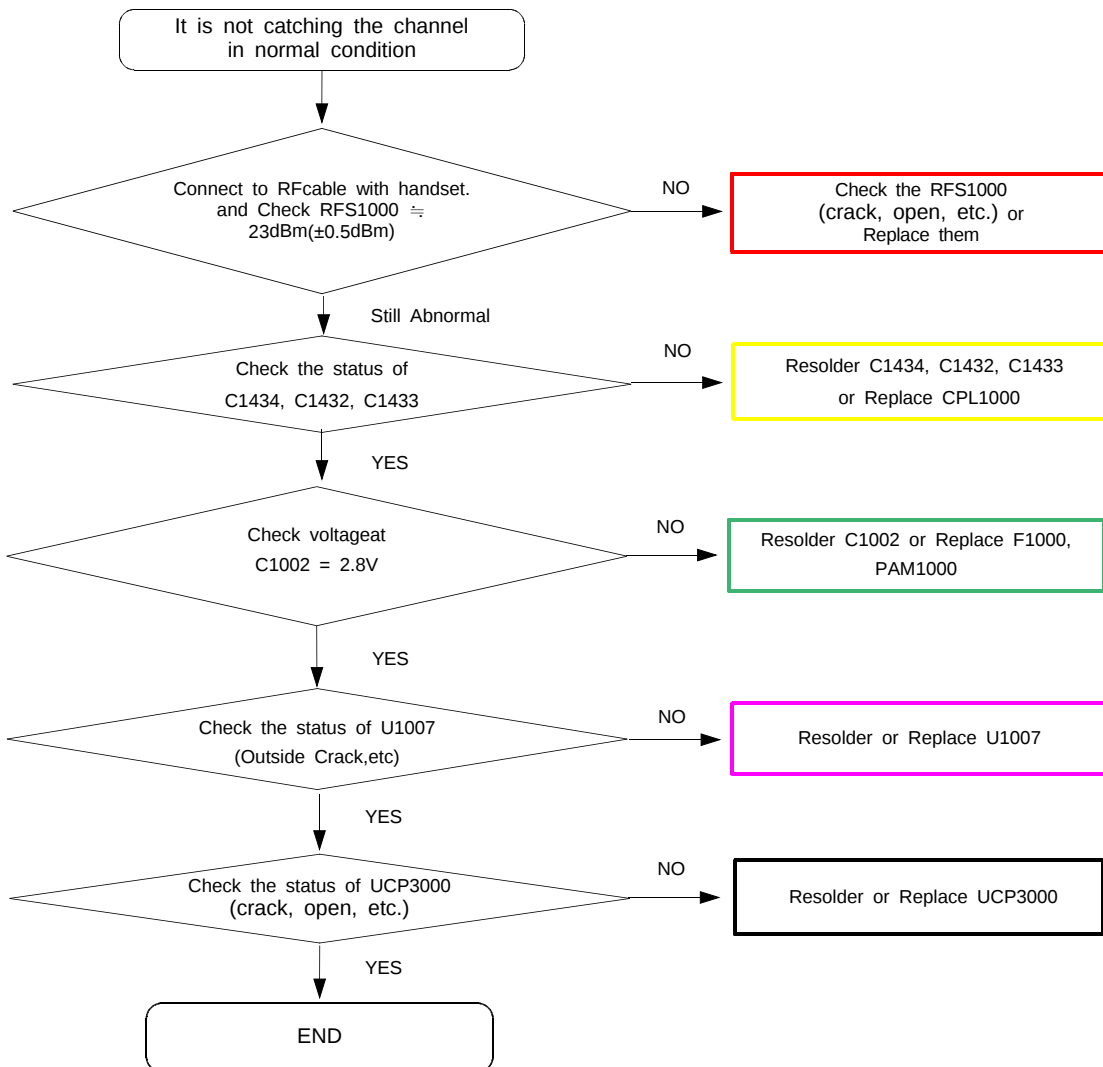
8-4-26. LTE Band3 Tx



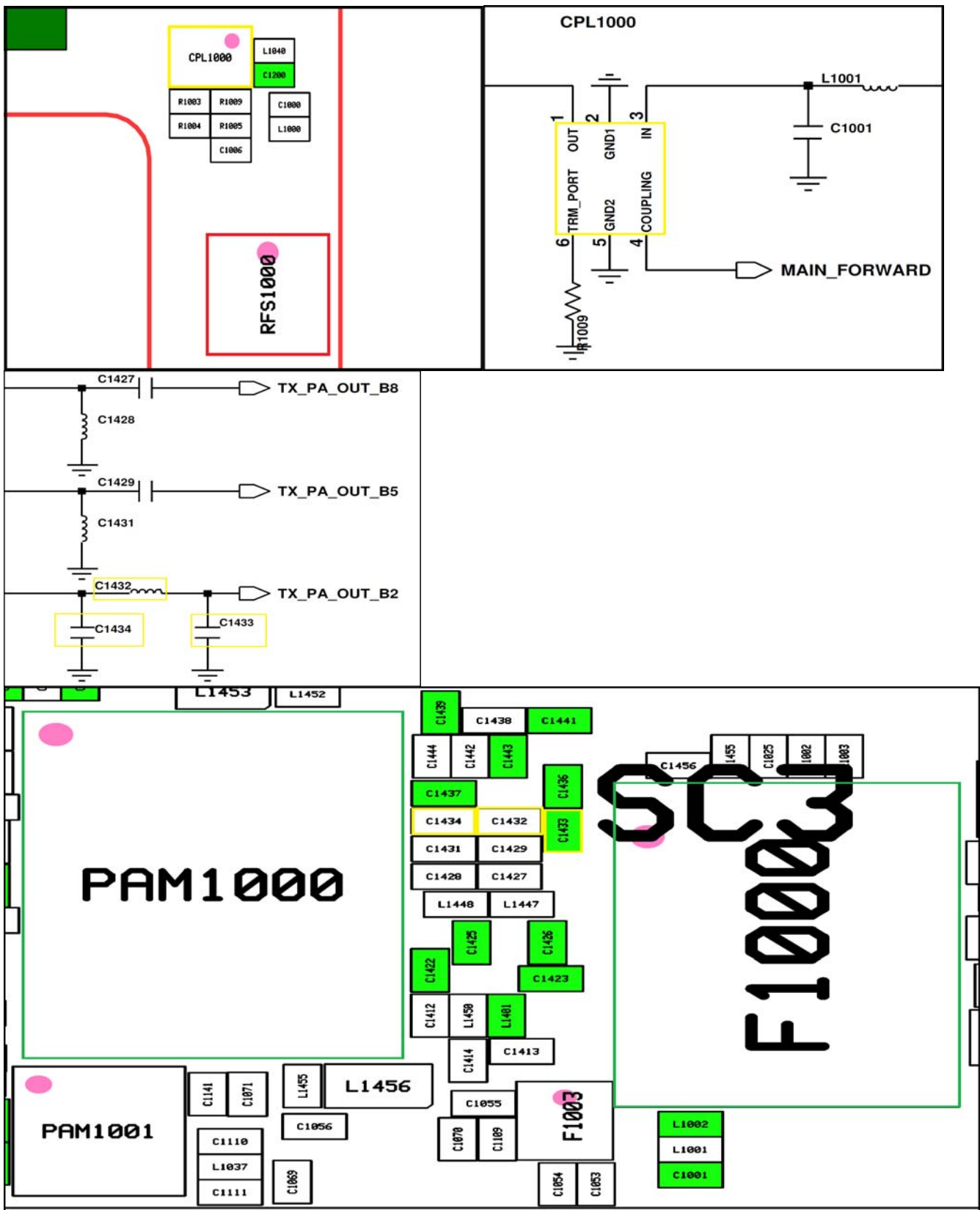


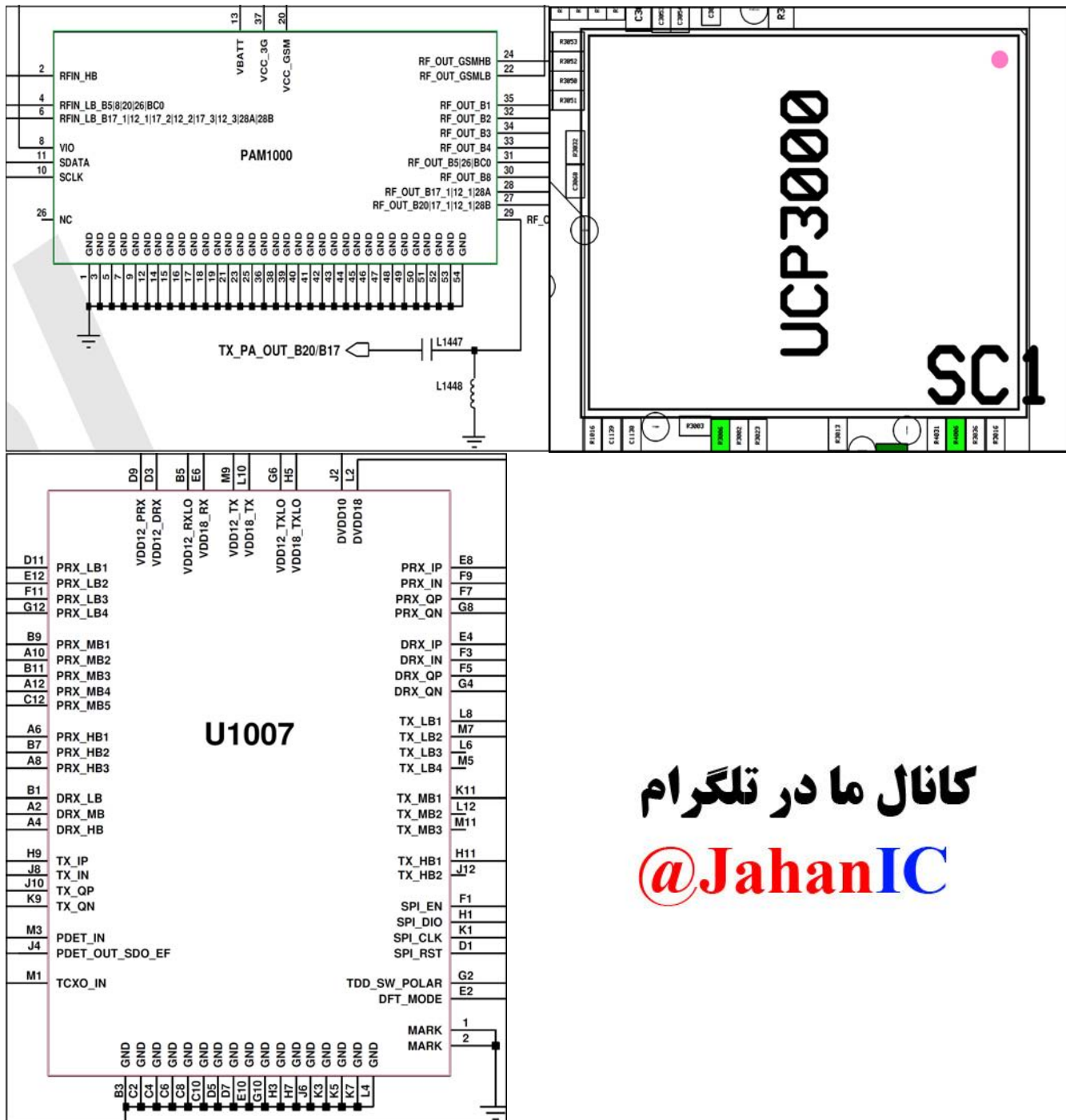
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8-4-27. WCDMA Band2 Tx



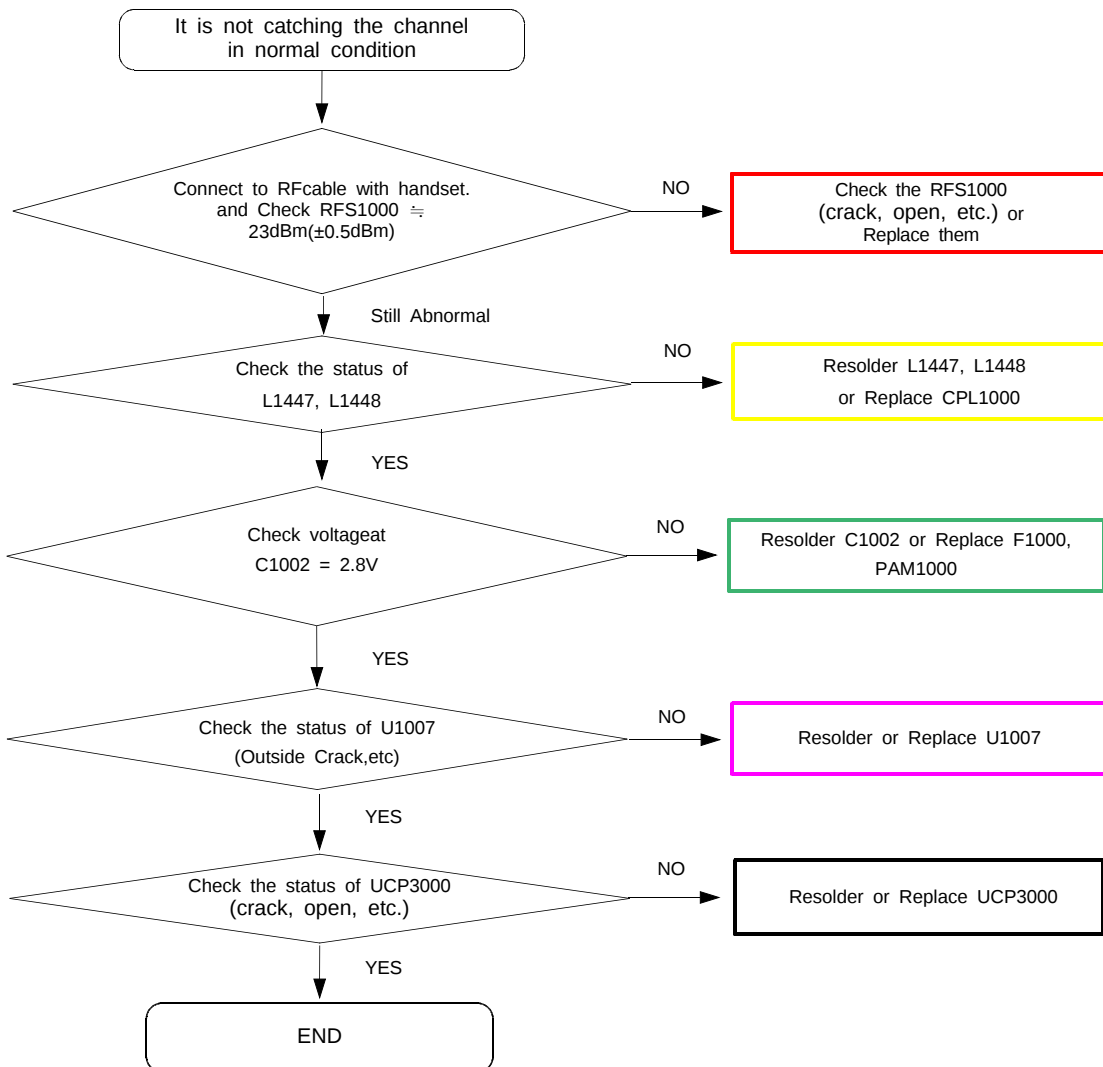
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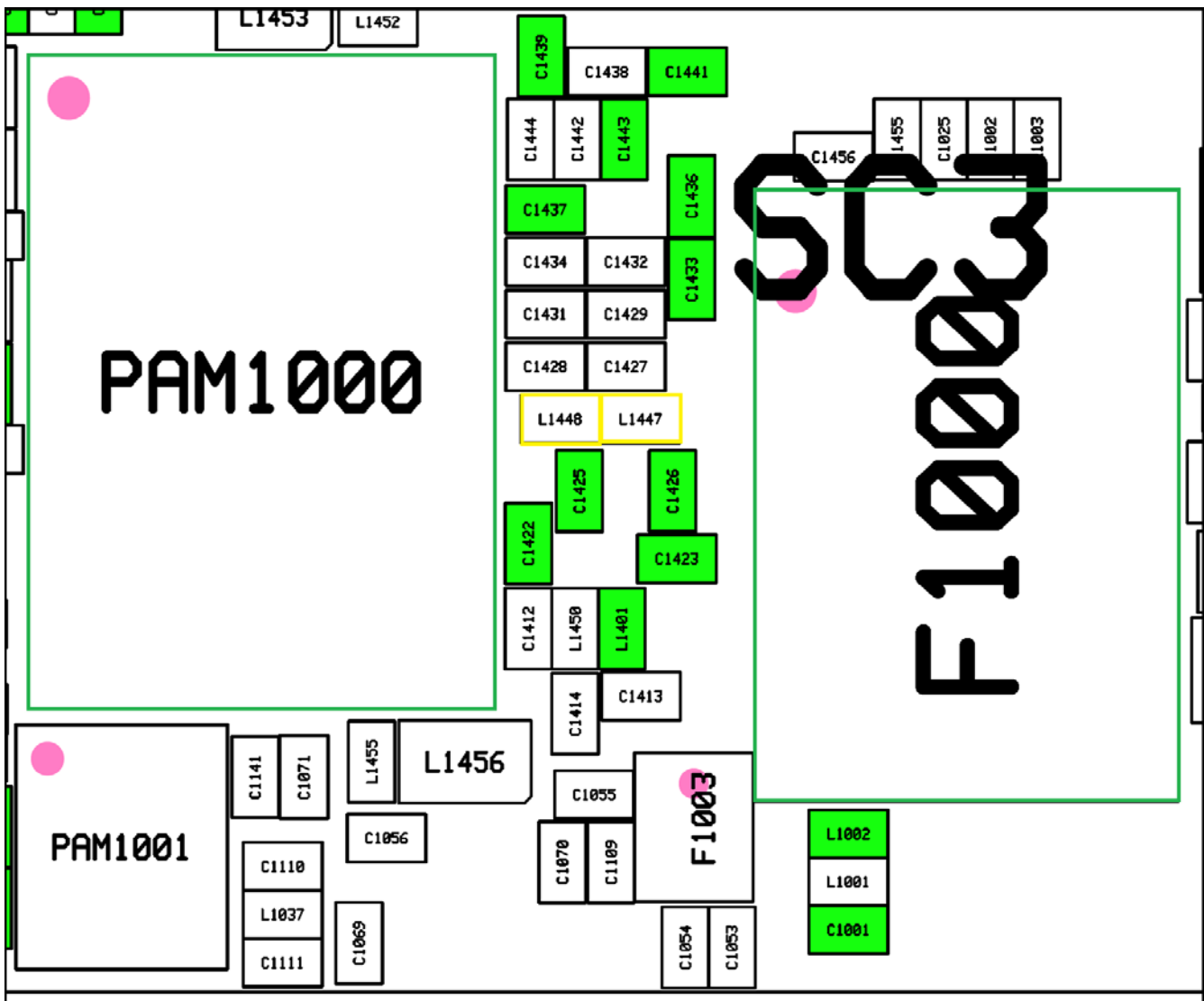
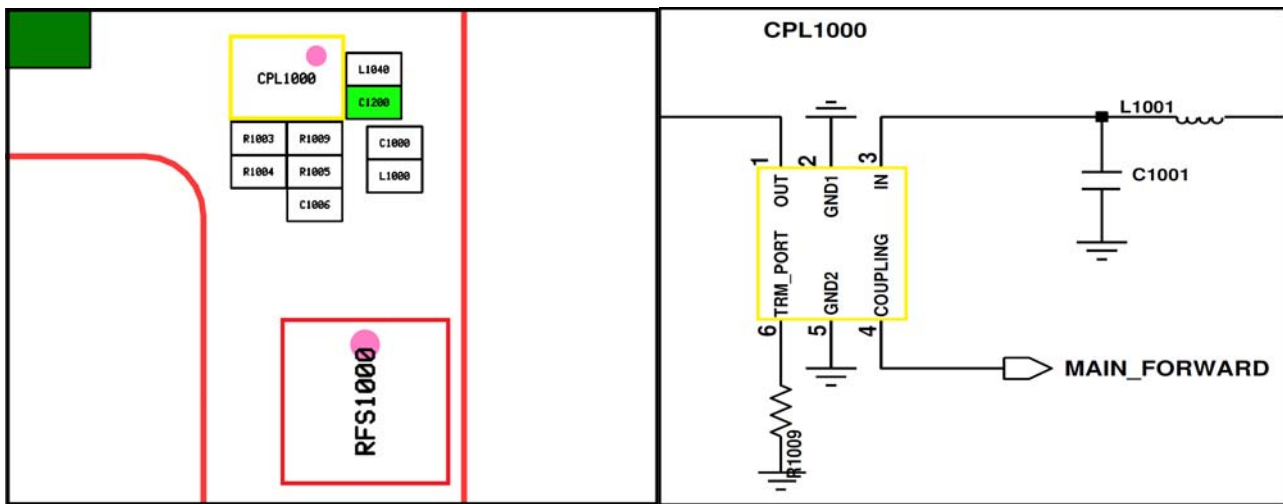


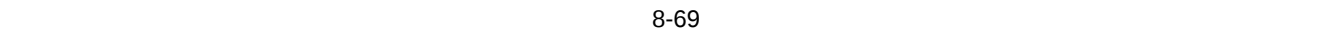


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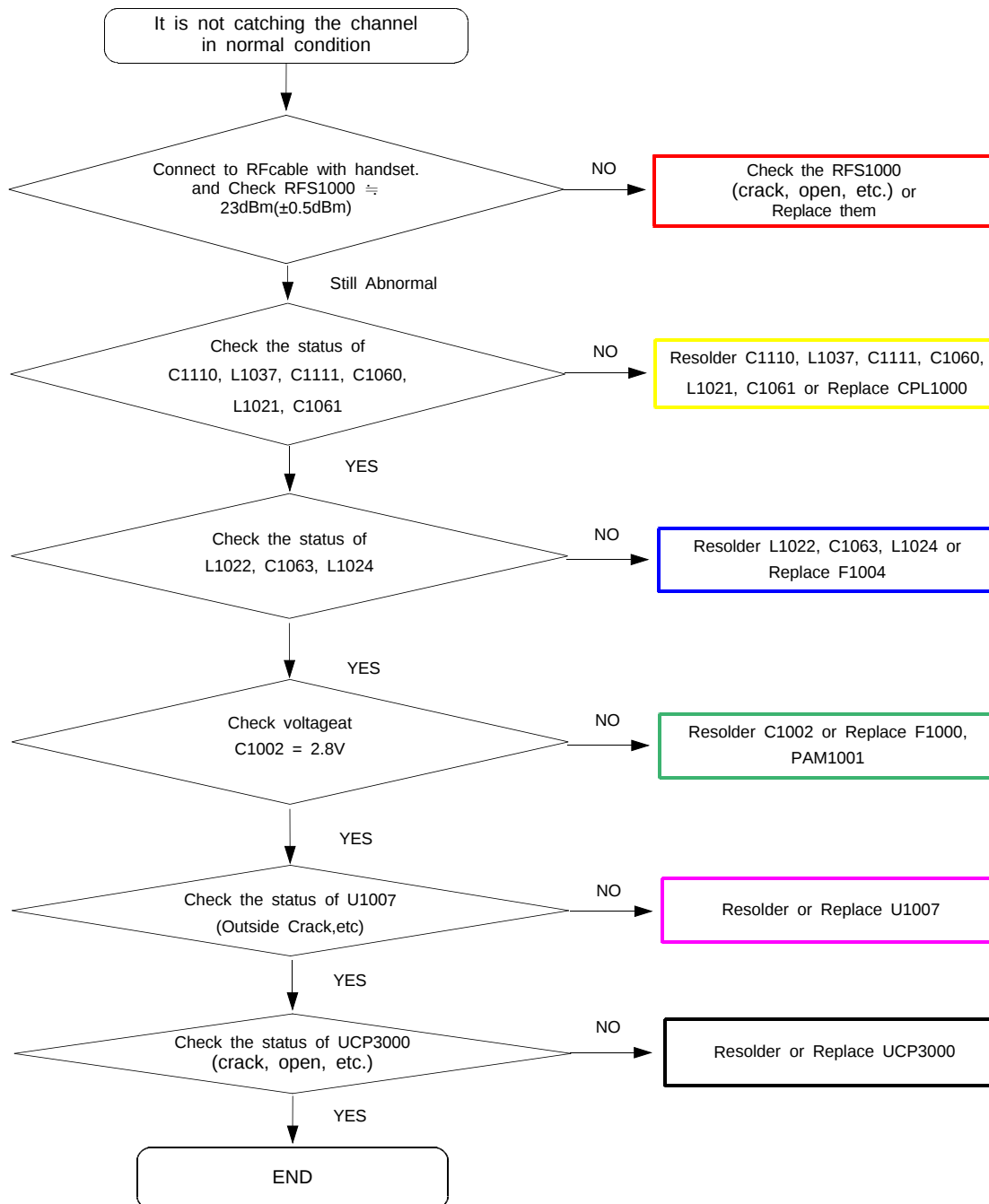
8-4-28. LTE Band20 Tx



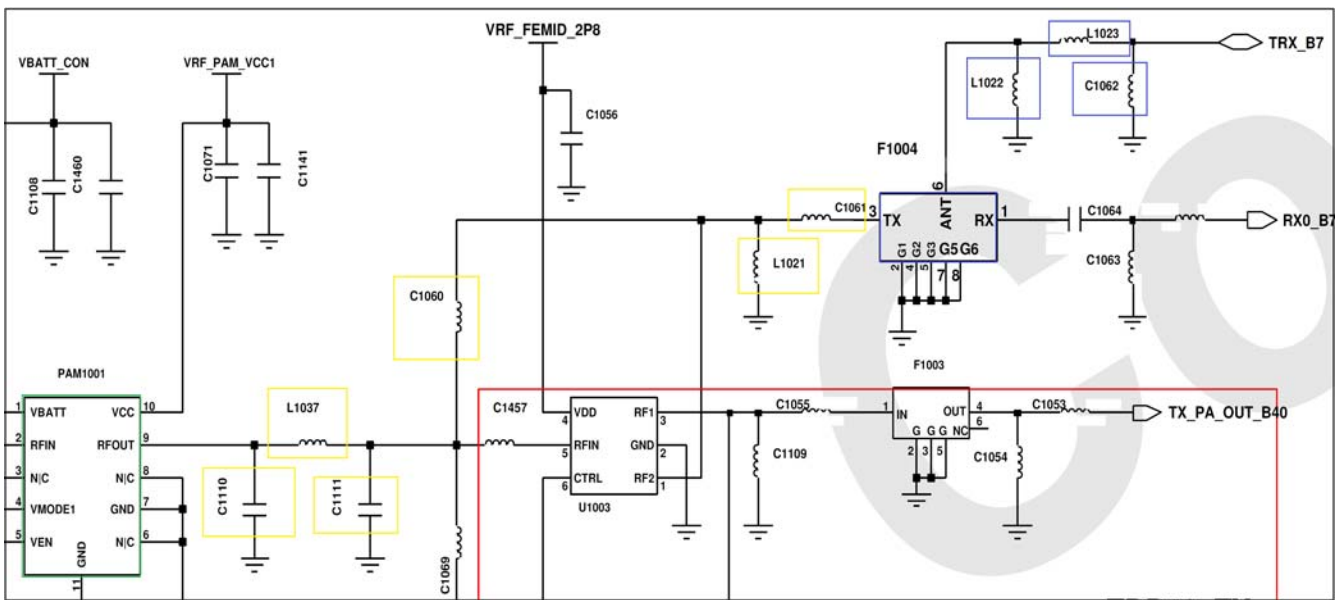
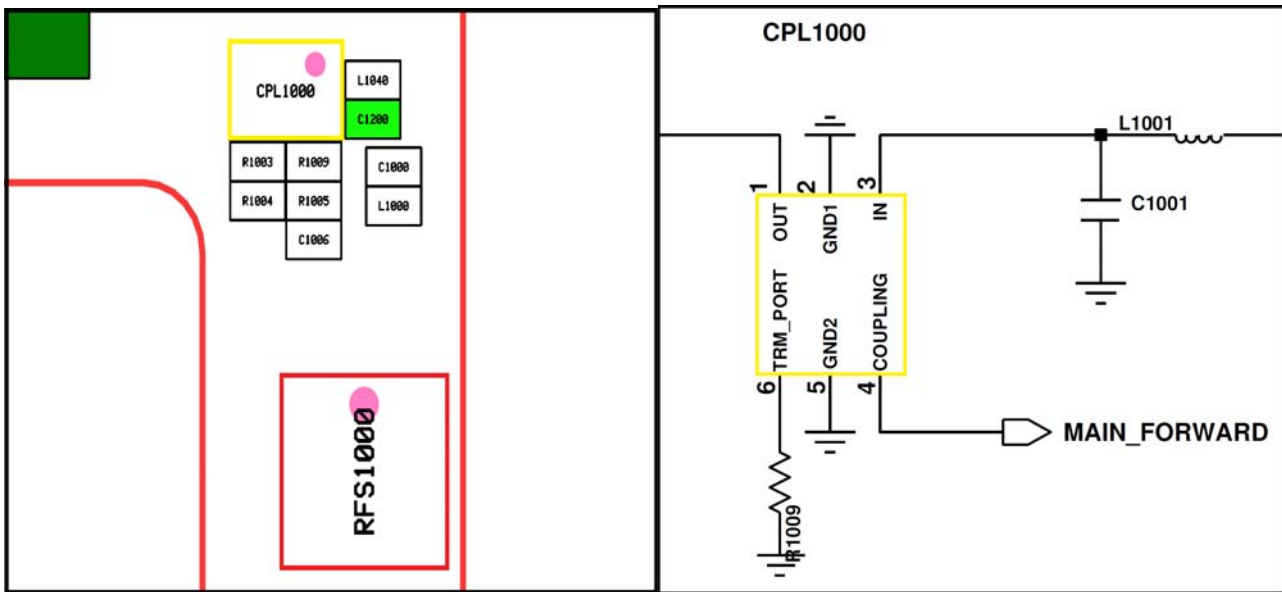


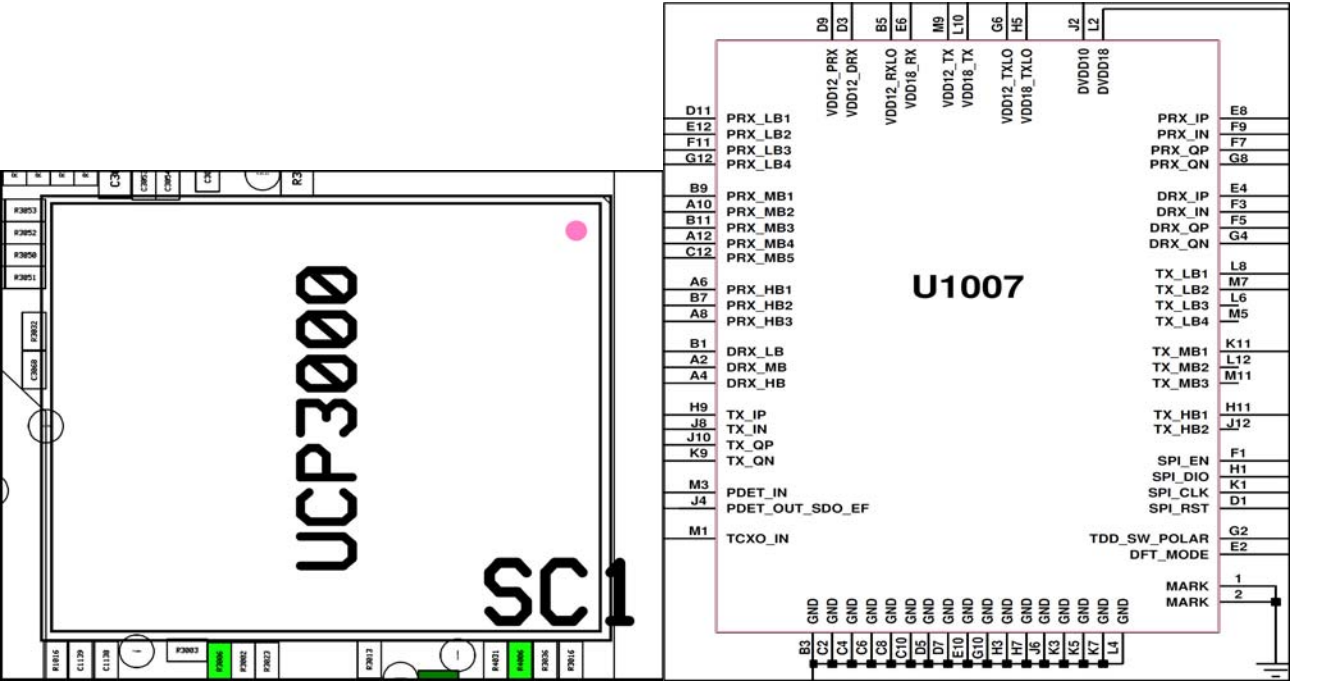


8-3-29. LTE Band7 Tx

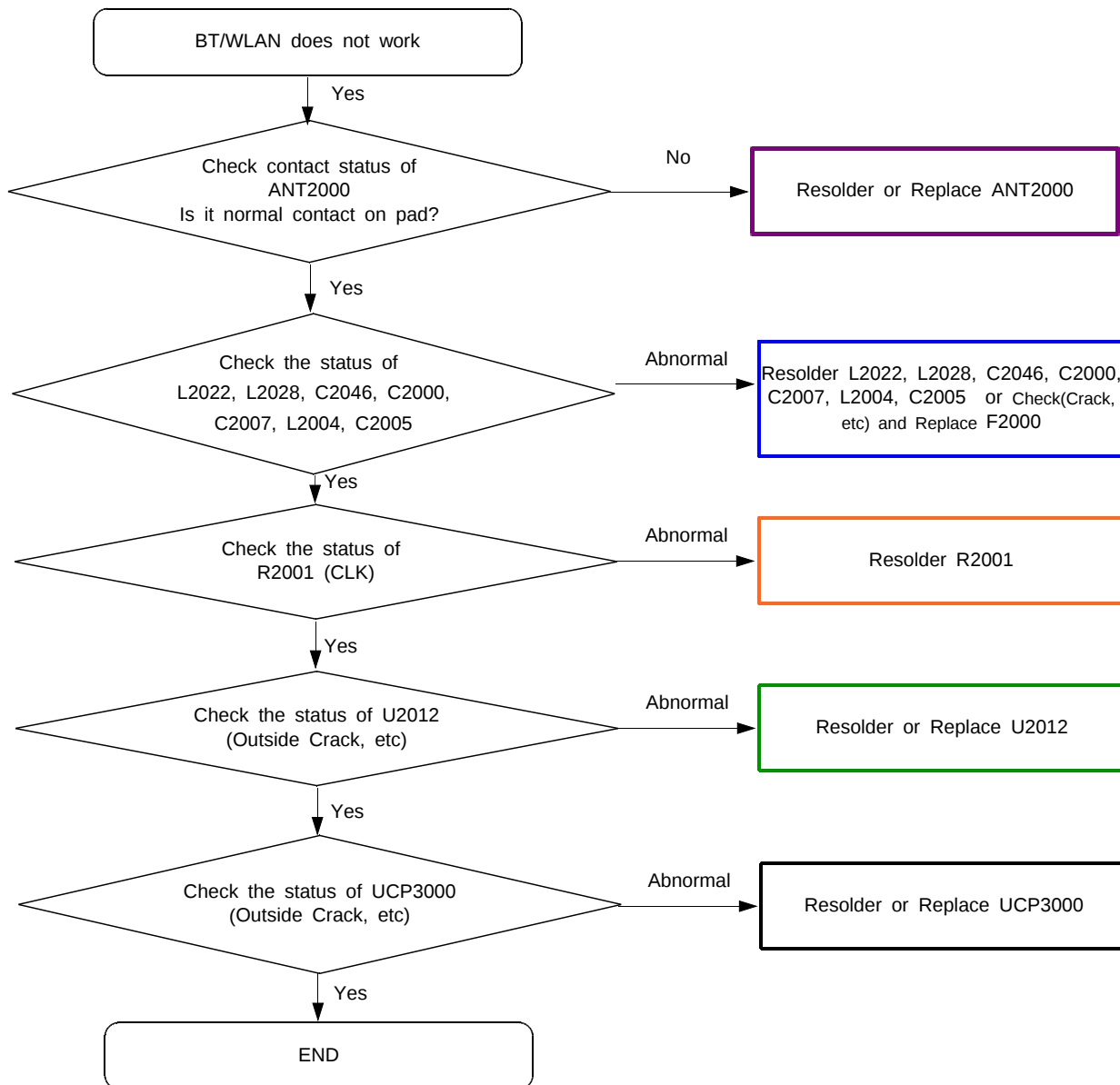


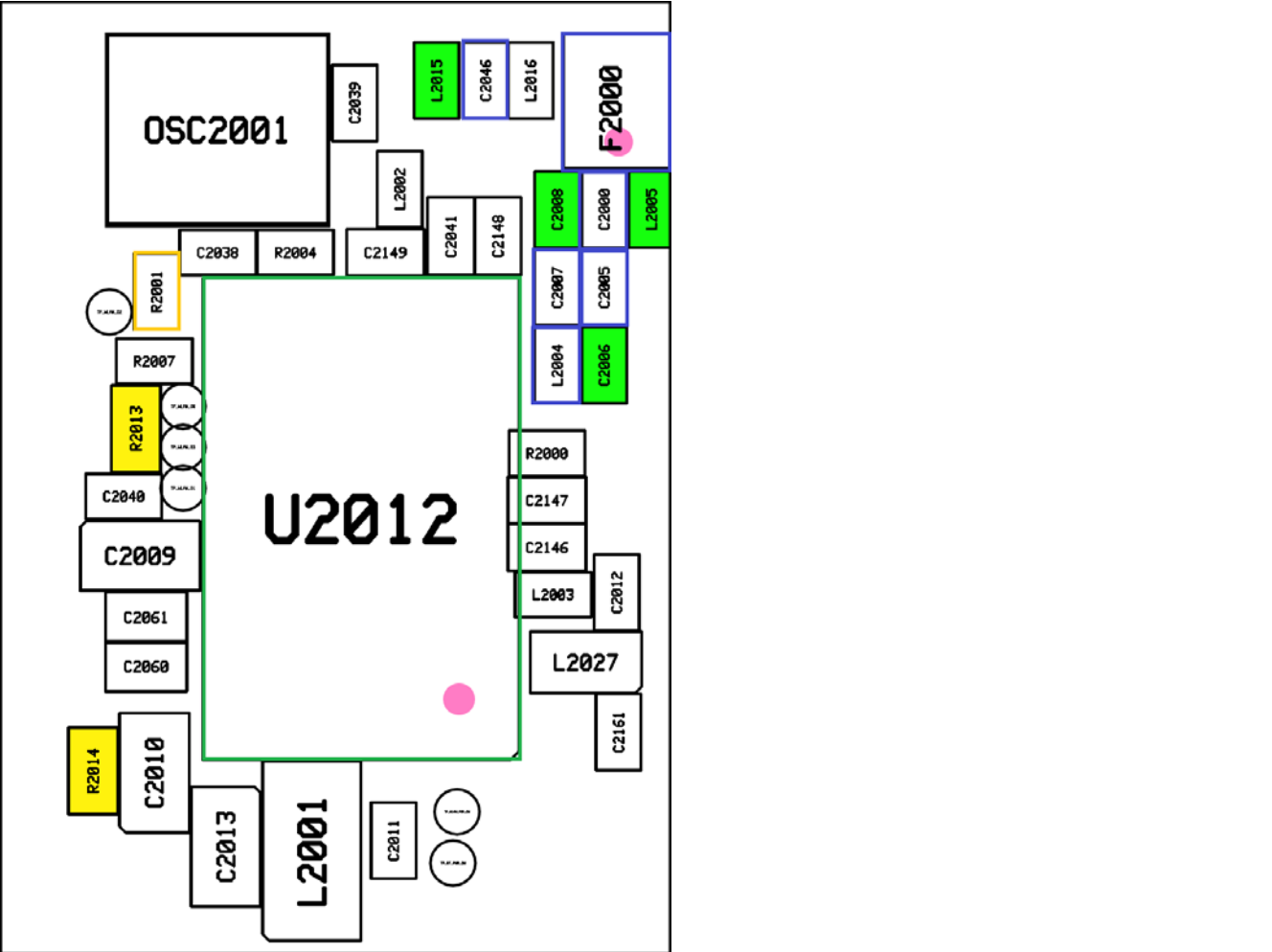
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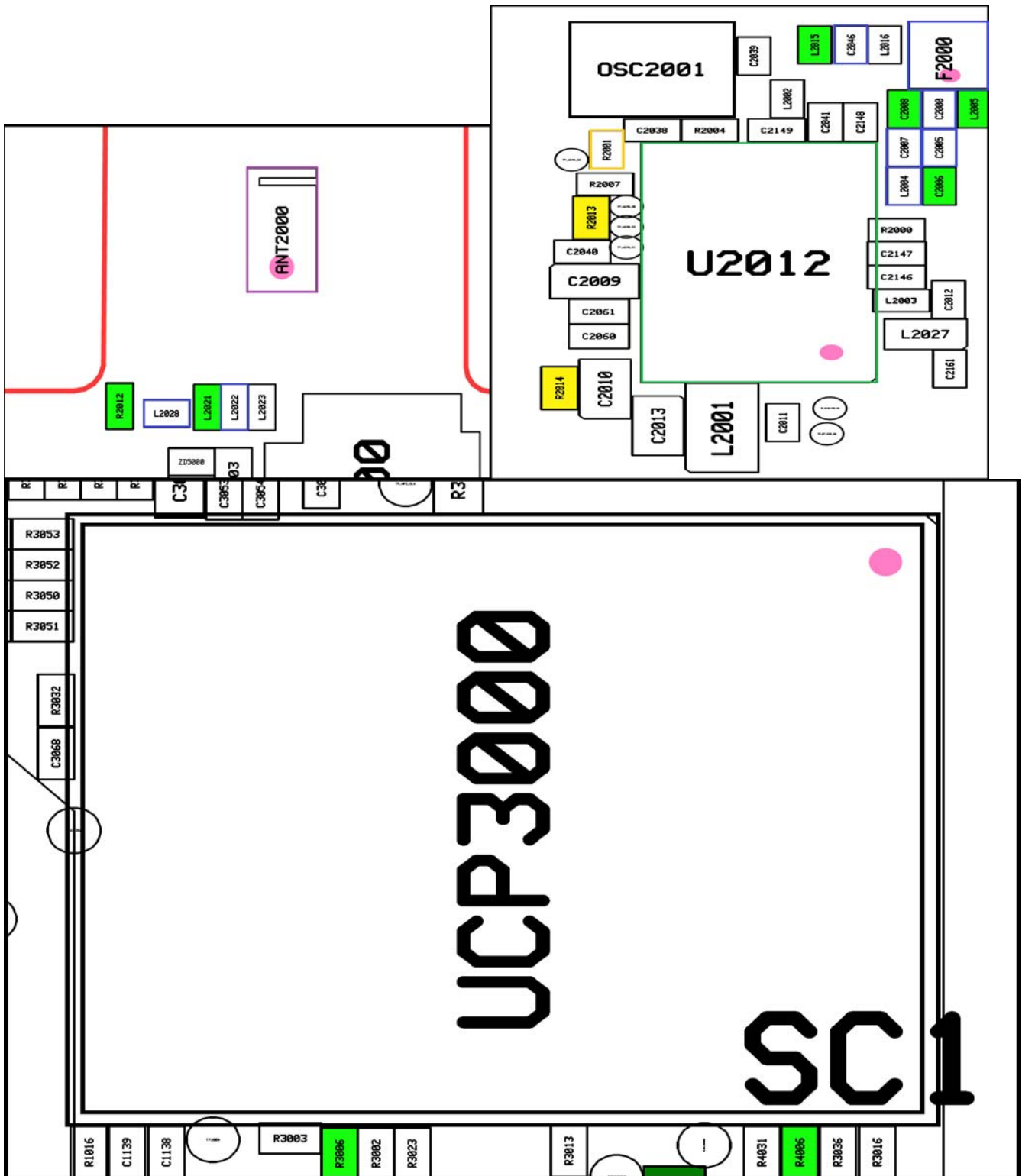




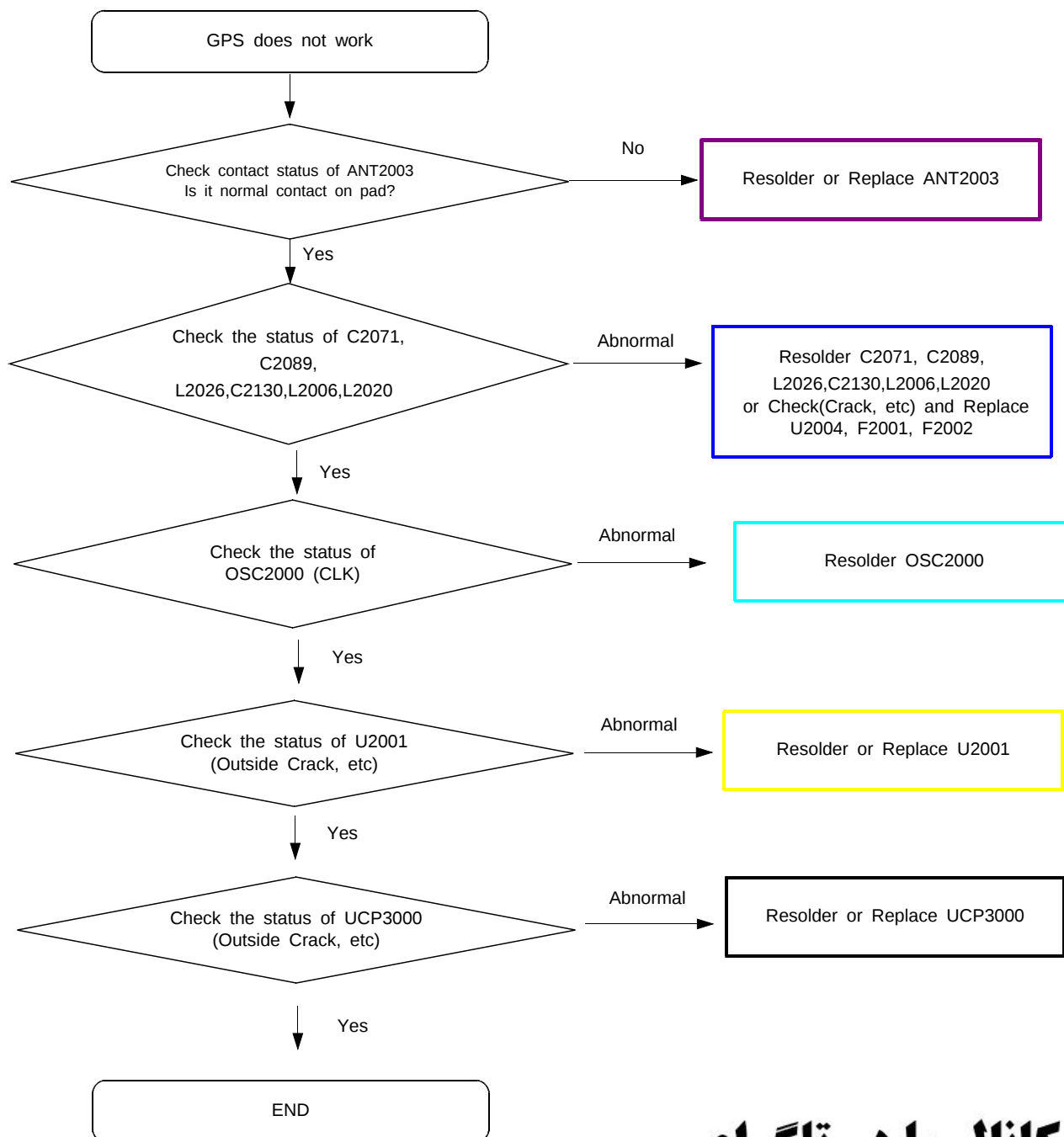
8-4-30. BT/WLAN



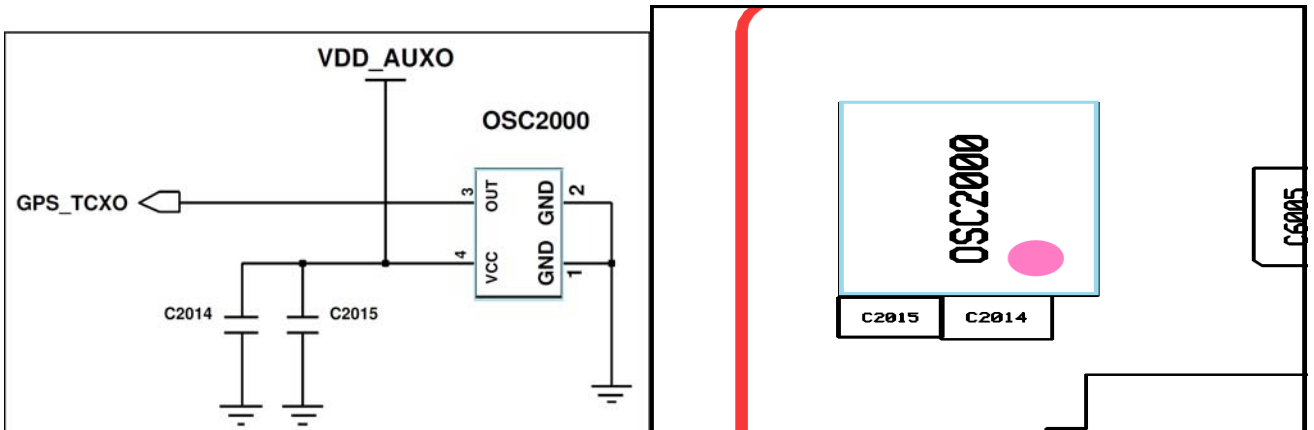
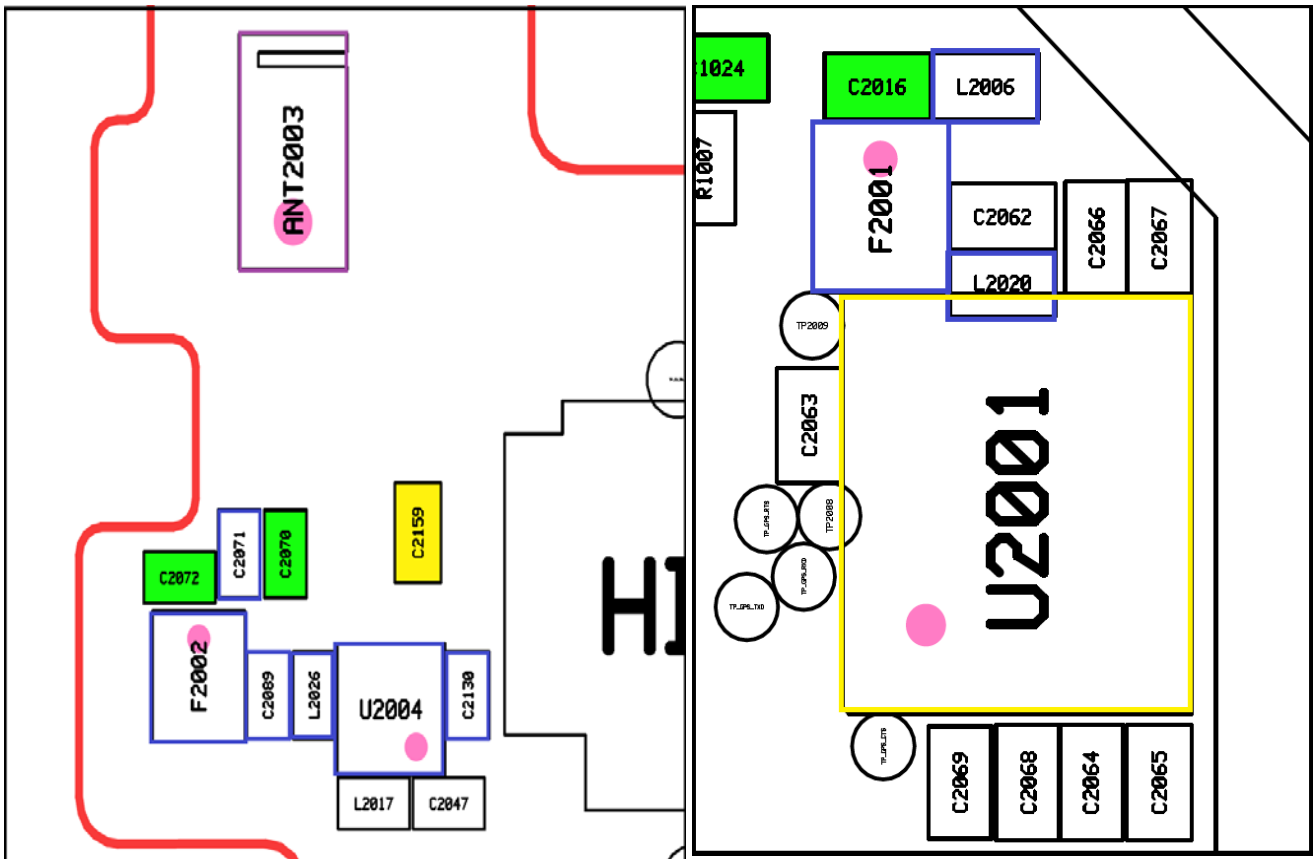
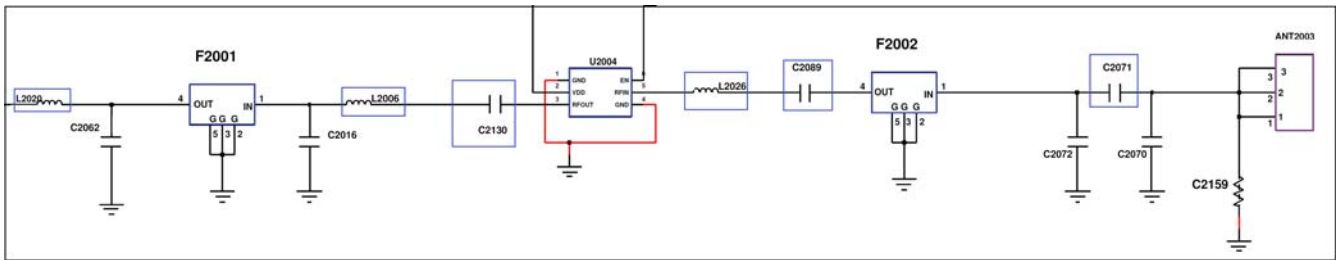


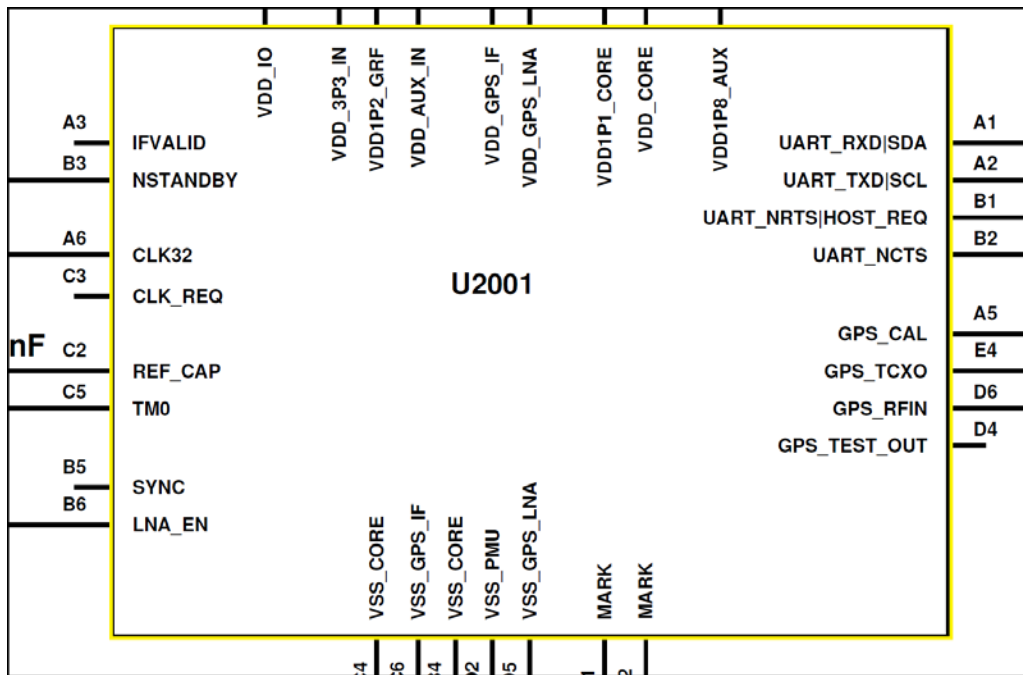


8-4-31. GPS



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