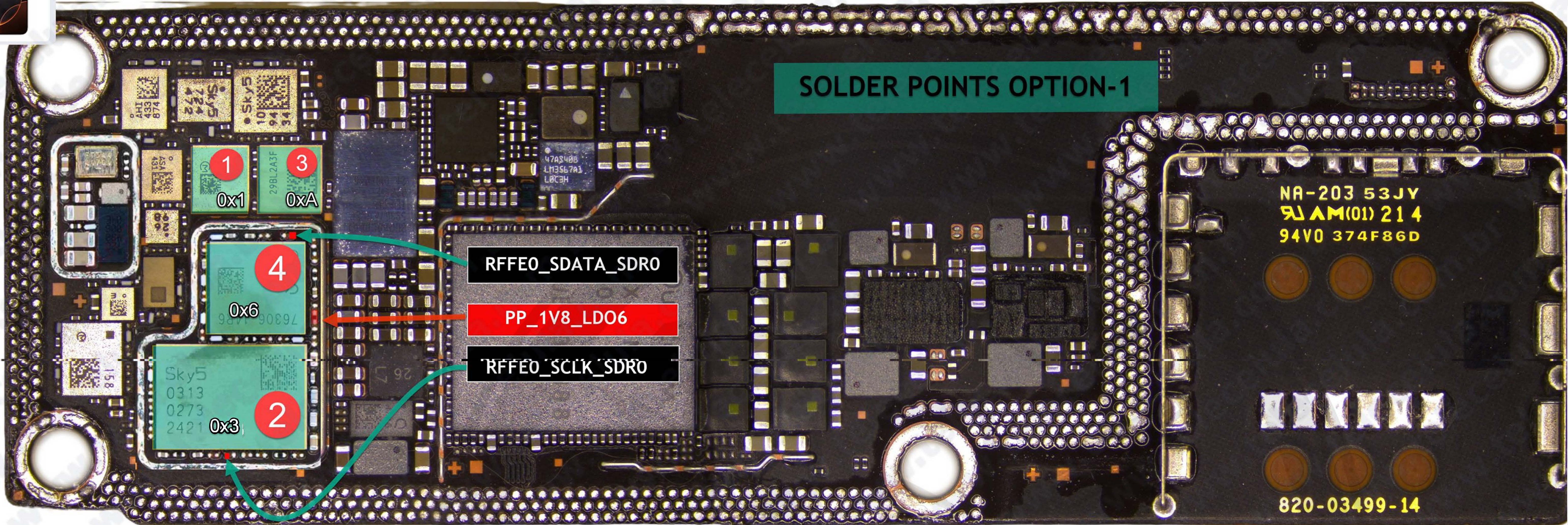


IPHONE 16 PRO - PRO MAX
XCVR0 RFFE0 SDR0

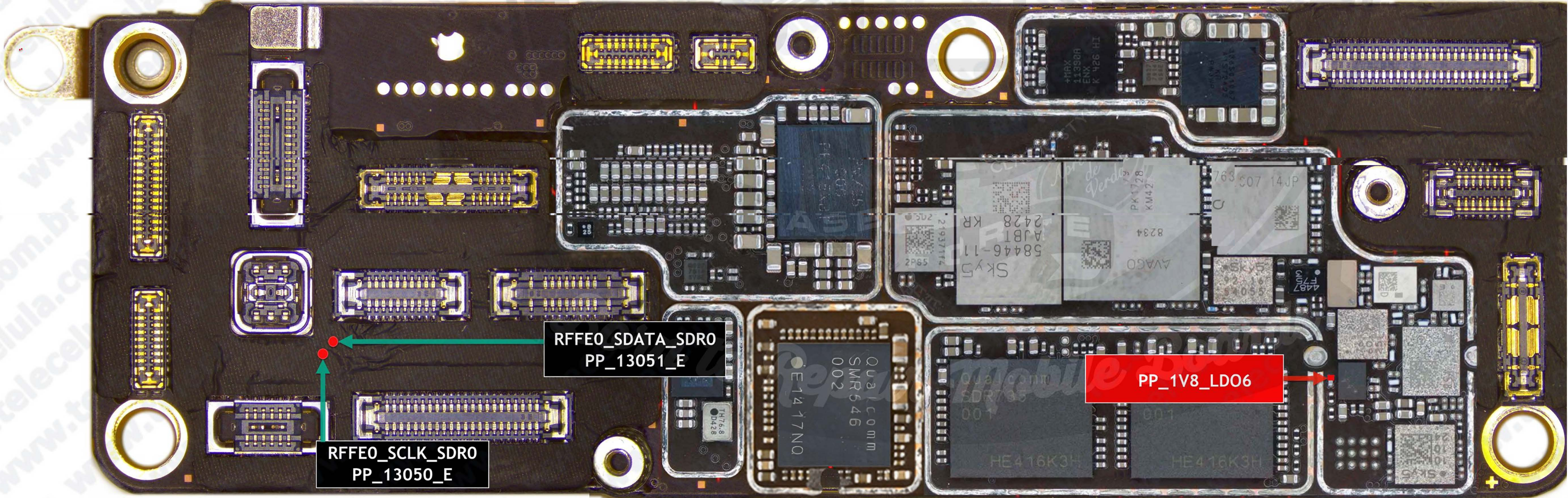


SOLDER POINTS OPTION-1

XCVR0 RFFE0

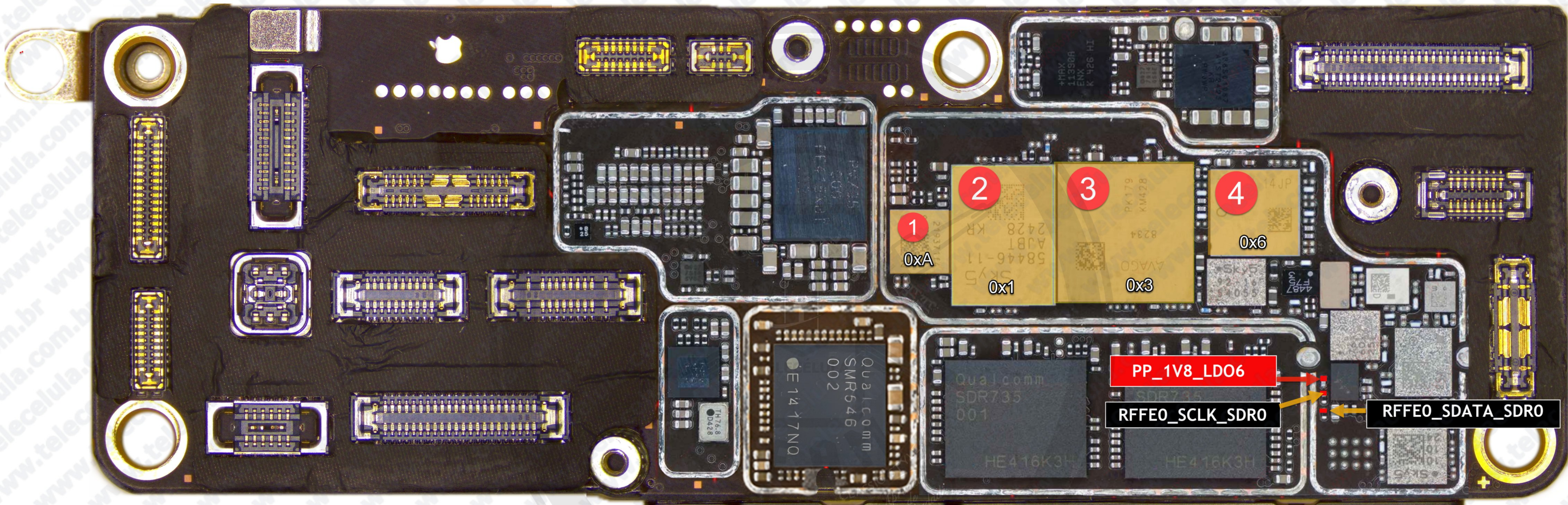
1- U_LBDSM_E	0x1
2- U_TXDSM_E	0x3
3- U_MDSM_U_E	0xA
4- U_UHBPA_U_E	0x6

SOLDER POINTS OPTION-2



- RFFE VIO 1.8V C2916_E / C2917_E (NC) / C2603_E
- RFFE SCL C2805_E (NC) / PP_13050_E
- RFFE SDA C2913_E (NC) / PP_13051_E
- GND (SHIELD).

IPHONE 16 PRO - PRO MAX
XCVR0 RFFE5 SDR0



XCVR0 RFFE5

- | | |
|----------------|-----|
| 1- MDSM_L_E | 0xA |
| 2- U_LBSPAD_E | 0x1 |
| 3- U_HBSPAD_E | 0x3 |
| 4- U_UHBPA_L_E | 0x6 |

- | | |
|----------------|---------|
| -RFFE VIO 1.8V | C2603_E |
| -RFFE SCL | R1506_E |
| -RFFE SDA | R1507_E |
| -GND (SHIELD). | |

IPHONE 16E - RFFE SHIELD
XCVR0 RFFE0 LRX SDR0



XCVR0_RFFE0_LRX

XCVR0_RFFE0_LRX_SCLK -R1001C-SCLK
XCVR0_RFFE0_LRX_SDAT -R1003_C SDAT

1-U_HBSPAD_C PAD D2-SCLK
AFEM 8254 AP1 PAD D1-SDAT
USID= 0x2

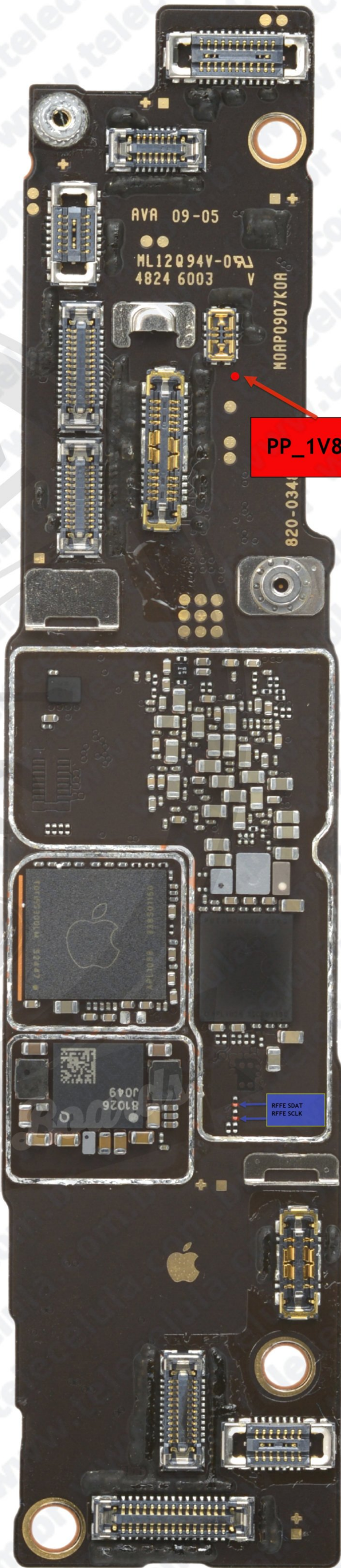
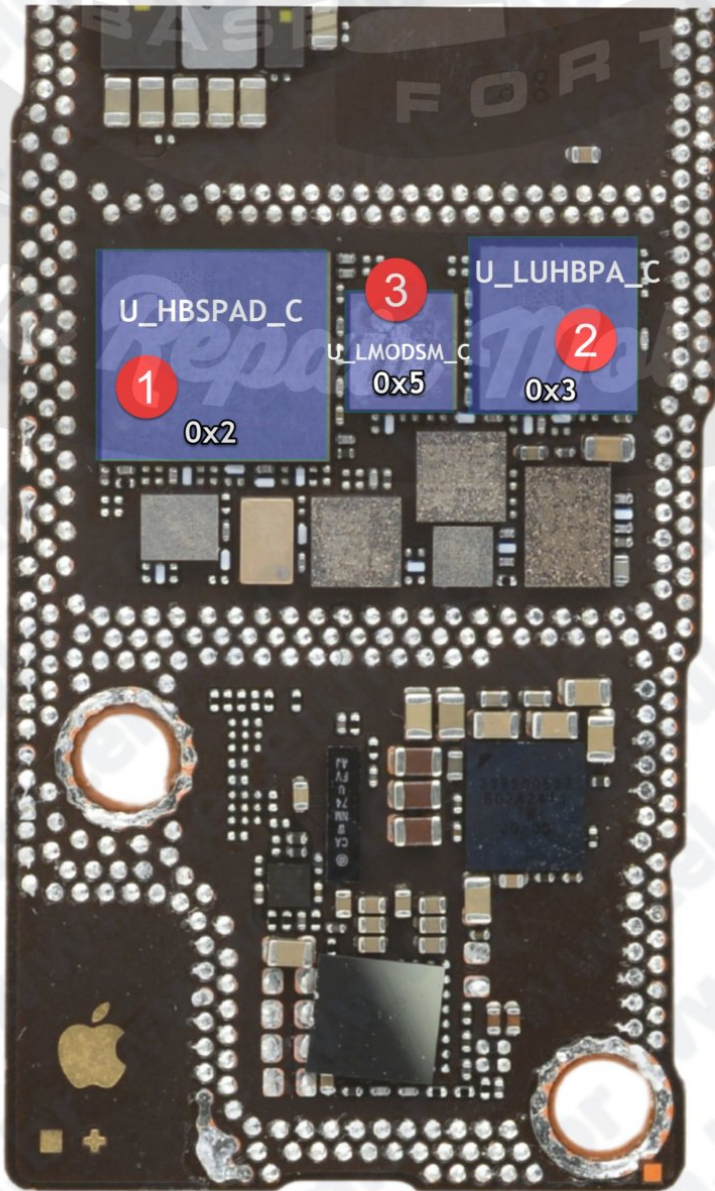
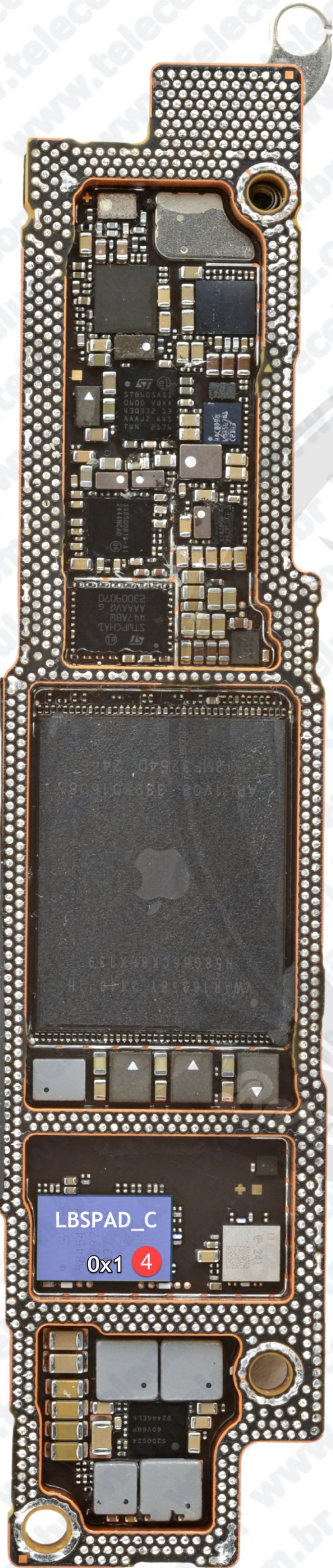
2-U_LUHBPA_C PAD E7-SCLK
AFEM-8255 AP1 PAD E6-SDAT
USID= 0x3

3-U_LMODSM_C PAD 15-SCLK
SKY53928 PAD 14-SDAT
USID= 0x5

4-U_LBSPAD_C PAD L10-SCLK
SKY 58454-11 PAD L11-SDAT
USID=0x1

VDD-RFFE_VIO C1400_C - PP_1V8_LDO6

PP_1V8_LDO6



IPHONE 16E - RFFE SHIELD
XCVR0 RFFE1 LXT SDR0



XCVR0_RFFE1_LTX

XCVR0_RFFE1_LTX_SCLK
R1005_C/C1301_C -SCLK

XCVR0_RFFE1_LTX_SDAT
R1007_C/C1302_C -SDAT

1-U_HBSPAD_C C1409-SCLK
AFEM 8254 AP1 C1410-SDAT
USID= 0x7

2-U_LUHBPA_C C1501_C-SCLK
AFEM-8255 AP1 C1502_C-SDAT
USID= 0x8

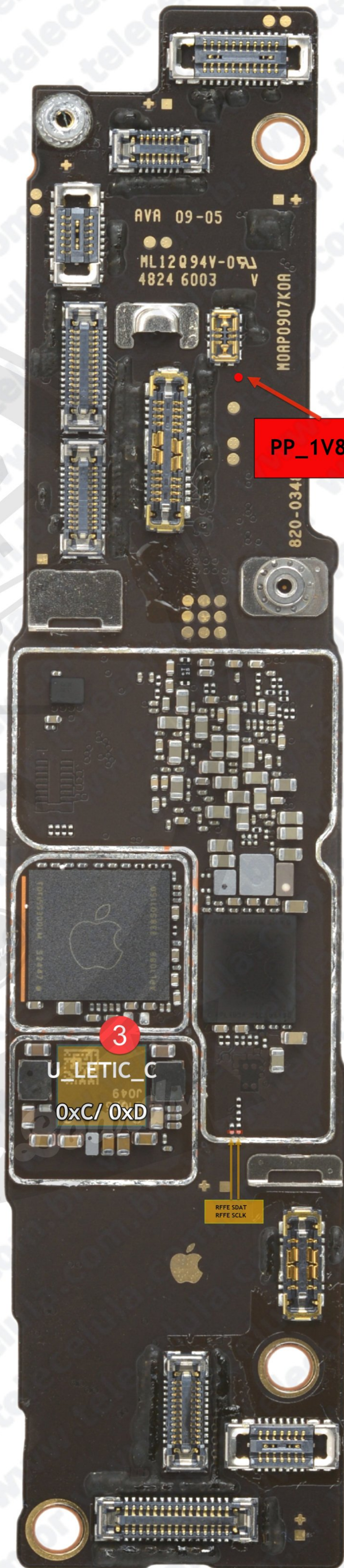
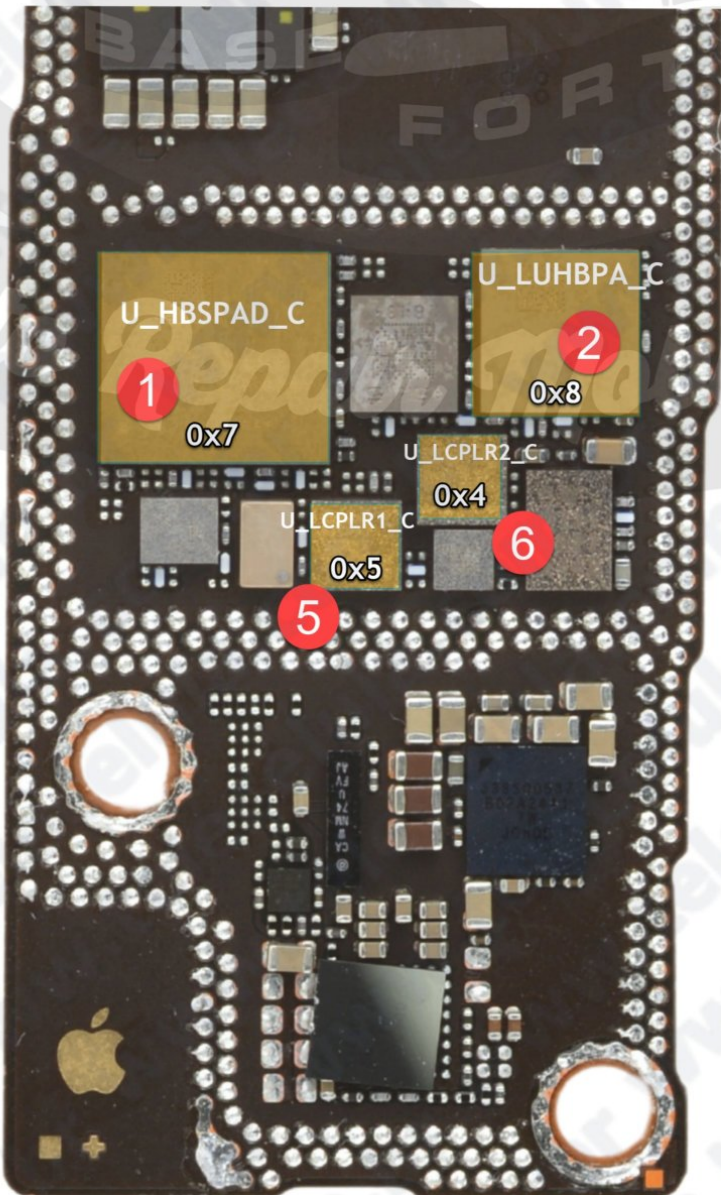
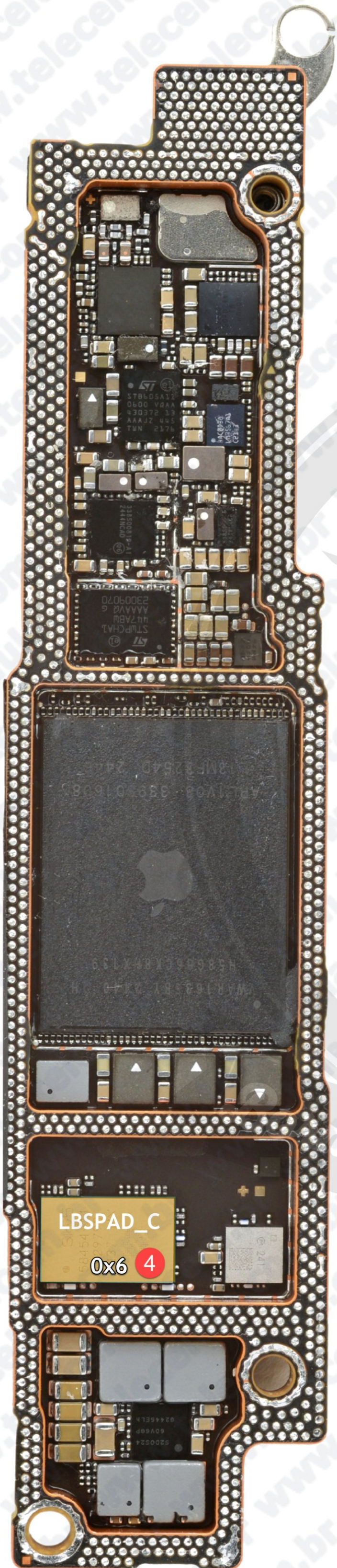
3-U_LETIC_C PAD G4-SCLK
QMN81026 PAD F4-SDAT
USID= 0xC/0xD

4-U_LBSPAD_C PAD G1-SCLK
SKY 58454-11 PAD H1-SDAT
USID=0x6

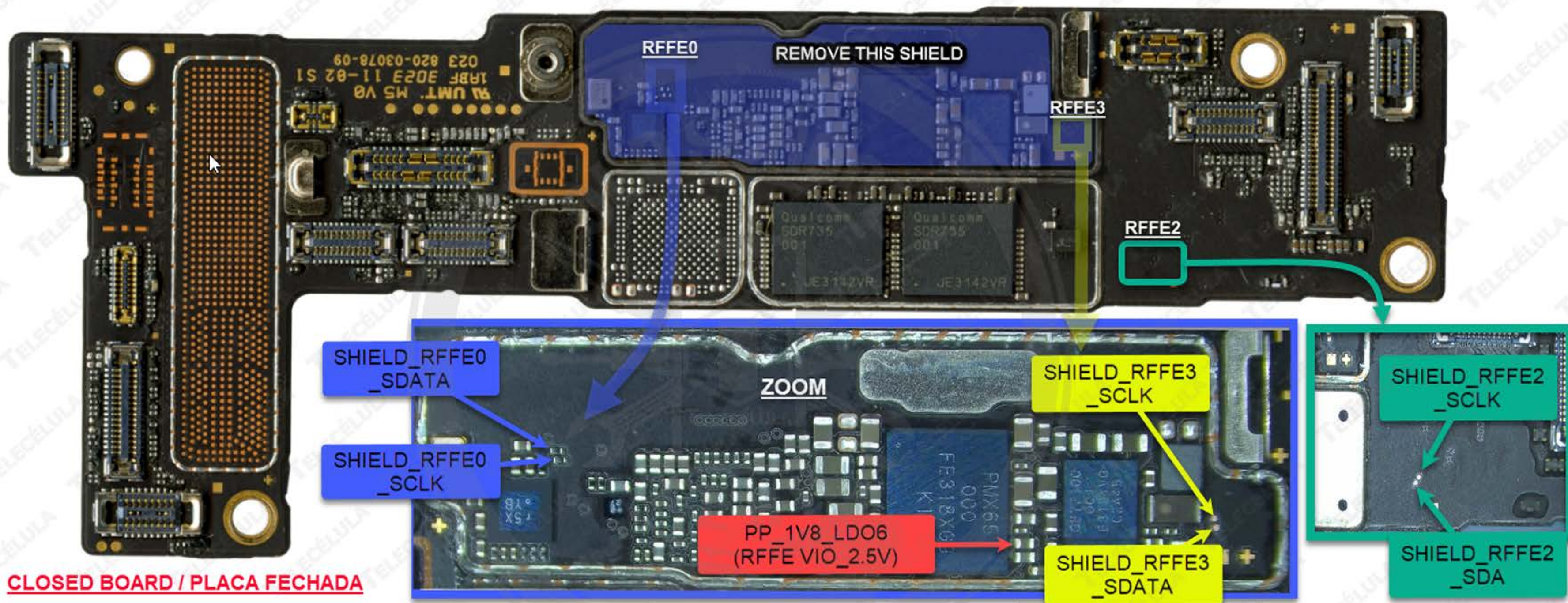
5-U_LCPLR1_C C1705_C-SCLK
SKY 58454-11 C1706_C-SDAT
USID=0x5

6-U_LCPLR2_C
SKY 58454-11
USID=0x4

PP_1V8_LDO6



SMARTBOARD- iPhone 15 / 15 Plus RFFE (MOUTEND BOARD - NEED REMOVE SHIELD).



SHIELD_RFFE0_SDATA_SDR

U_TXDSM_E (SKY5-0313-9392)	0x3	(RF PART)
U_MDSM_U_E (SKY5-04314)	0xA	(RF PART)
U_LBDSM_E (L14)	0x1	(RF PART)
U_5G_U_W (0711-8418)	0xE	(RF PART)
*U_UHBDSM_E (AVAGO 8245)	0x7	(RF PART)

R1509_E SDA / R1508_E SCL

SHIELD_RFFE2_SDATA_SDR

U_CPLR1_E (155)	0x8	(RF PART)
U_QET1_E (QET7100)	0xD/0x4	(AP PART)
U_PA_HB_E (AFEM 8233/8234)	0x3	(AP PART)

PP13055_E SDATA / PP13054_E SCL

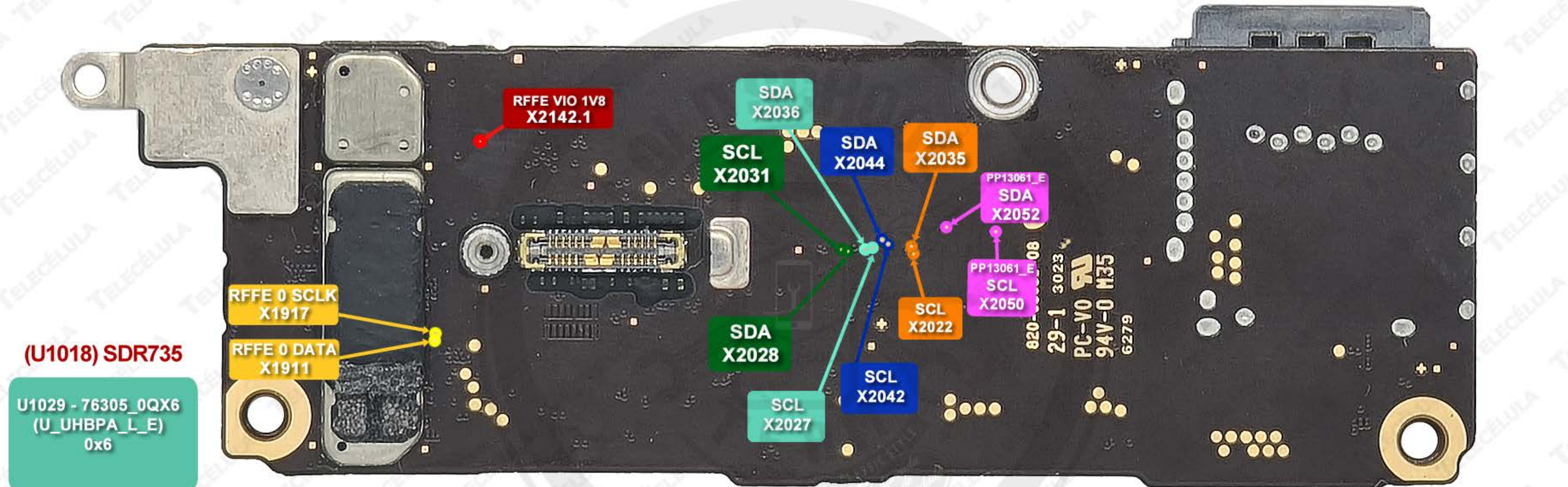
SHIELD_RFFE3_SDATA_SDR

PA_2G_E (SKY5 8292-11)	0x5	(AP PART)
U_ETIC0_E (QET7100)	0x4	(RF PART)
U_LBSPAD_E (SKY5 58446-11)	0x1	(RF PART)

PP13057_E SDATA / PP13056_E SCL

IPHONE 15 PRO / 15 PRO MAX

MOUNTED BOARD



SDR1_RFFE1

U1035-8249_TM025_KA324_ (U_UHBPA_U_E) 0xB
U1004 - SKY5 04516 (U_MDSM_U_E)
X10011 - 151 (U_7G_U_W)
U1010 - L14 (U_LBDSM_E) - 0x1
U1003 - SKY5 031324452320 (U_TXDSM_E) - 0x3

SDR1_RFFE0

U1025_SKY5 8446 (U_LBSPAD_E) - 0x1
U1026_SKY5 921682692 (PA_2G_E) - 0x5
U1032_QET7100 (U_ETIC0_E)
(DETECTOR ENVELOPE) - 0x4

SDR1_RFFE3

U1001_SKY5 724-702 (U_CPLRU1_E)
U1003_SKY5 031324452320 (TXDSM_E) - 0x3
U1035_8249_TM025_KA324_ (U_UHBPA_U_E) - 0xB
U1011 - F0CZ (U_APTU_E)

SDR1_RFFE4

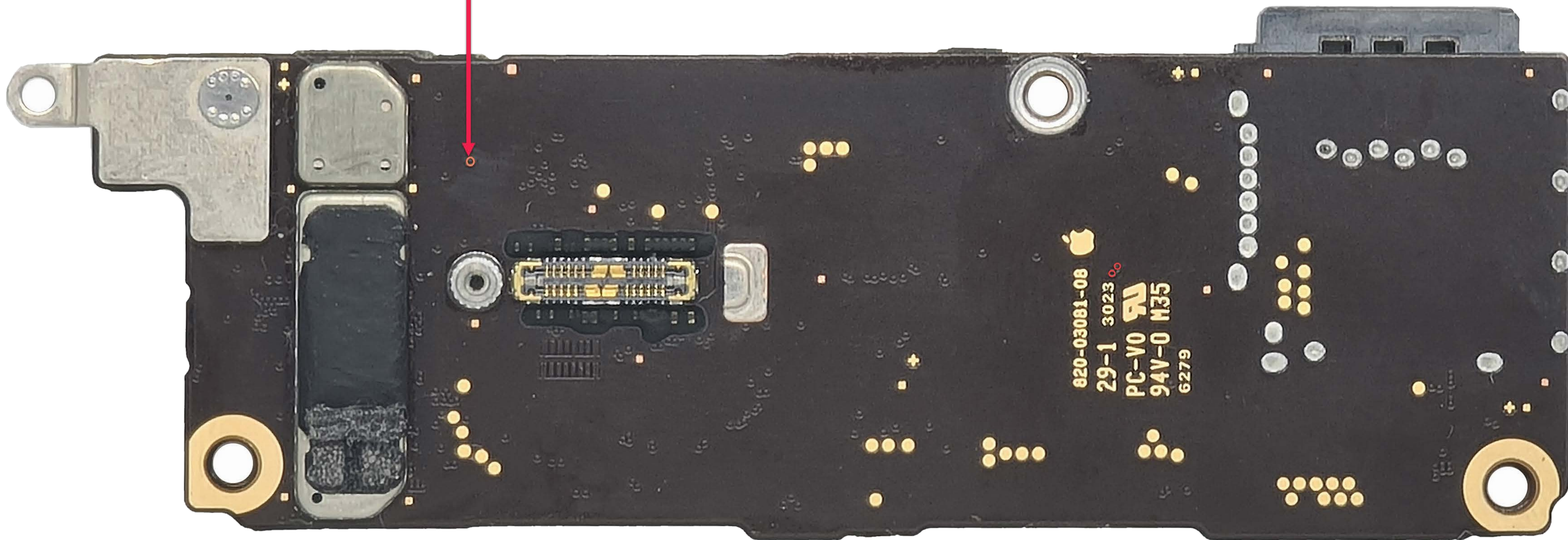
U1031_155 (U_CPLRL1_E) - 0x8
U1021_QET7100 (U_ETIC1_E) - 0x4
U1023_AVAGO 8234 (U_HBSPAD_E) - 0x3

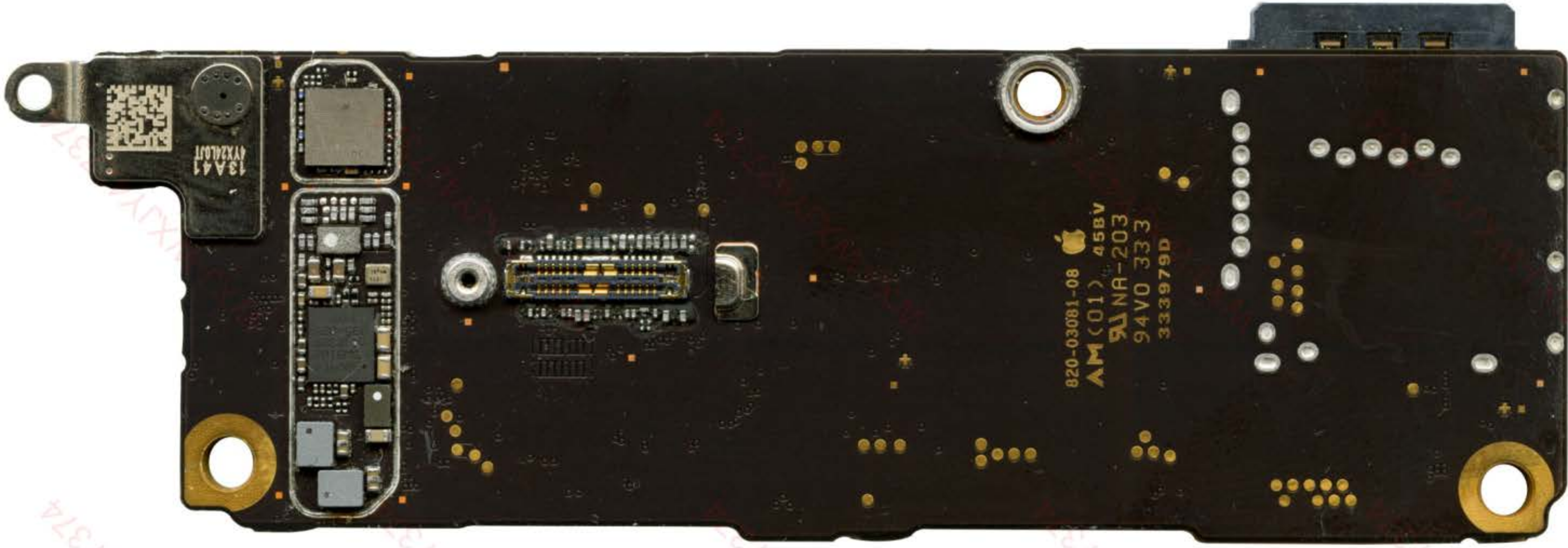
SDR1_RFFE2

U1023 - AVAGO 8234 - 0x3 (U_HBSPAD_E)
U1024 - SKY5 04516 - 0xA (U_MDSM_L_E)
U1025 - SKY5 58446-11-FEM - 0x1 (U_LBSPAD_E)
U1029 - 76305-0QX6 - 0x6 (U_UHBPA_L_E)
X10802 (TOP BOARD) 0xE (U_7G_L_W)

SDR1_RFFE5

RFFE VIO 1V8





820-03081-08
AM (01) 45BV
91NA-203
94V0 333
333979D

IPHONE 14 PRO MAX (RFFE - SDR)

RFFE-5SDR

RFFE-0 SDR

RFFE-1

SDA

SDA

SCL

SCL

SCL

SCL

SDA

SCL

SDA

RFFE-4 SDR

SCL

SDA

RFFE-2 SDR

RFFE-3 SDR

RFFE-1

PA UHB (U232)
IF IC (U233)

RFFE-4

X550 - SKY5 724 866
X239_1 - DP08
U0590 - SKY 853-17 25068 2225

RFFE-0 SDR

RFFE-2 SDR

RFFE-3 SDR

RFFE-5 SDR

MIMO_U_E	0xA RFFE7_SDR
DSM_UHB	0x7 RFFE7_SDR
DSM_HB_E	0x3 RFFE5_SDR
DSM_LB_E	0x1 RFFE7_SDR
U_5G_U_W	0xE RFFE7_SDR

PA_HB_E	0x3 RFFE1_SDR
U_QET0_E	0x4 RFFE1_SDR
CPLR_L_E	0x8 RFFE1_SDR

PA_LMB	0x5 RFFEE6_SDR
PA_LB_E	0x1 RFFE6_SDR
QET_1	0x4 RFFE6_SDR

MIMO_L_E	0xA RFFE3_SDR
PA_LB_E	0x1 RFFE3_SDR
U_5G_L_W	0xE RFFE3_SDR
PA_HB_E	0x3 RFFE3_SDR
PA_UHB_L_E	0x6 RFFE3_SDR

IPHONE 14 PRO (RFFE - SDR)

RFFE-5SDR

RFFE-0 SDR

RFFE-1

SDA

SDA

SCL

SCL

SCL

SCL

SDA

SCL

SDA

RFFE-4 SDR

SCL

SDA

RFFE-2 SDR

RFFE-3 SDR

RFFE-1

PA UHB (U232)
IF IC (U233)

RFFE-4

X550 - SKY5 724 866
X239_1 - DP08
U0590 - SKY 853-17 25068 2225

RFFE-0 SDR

RFFE-2 SDR

RFFE-3 SDR

RFFE-5 SDR

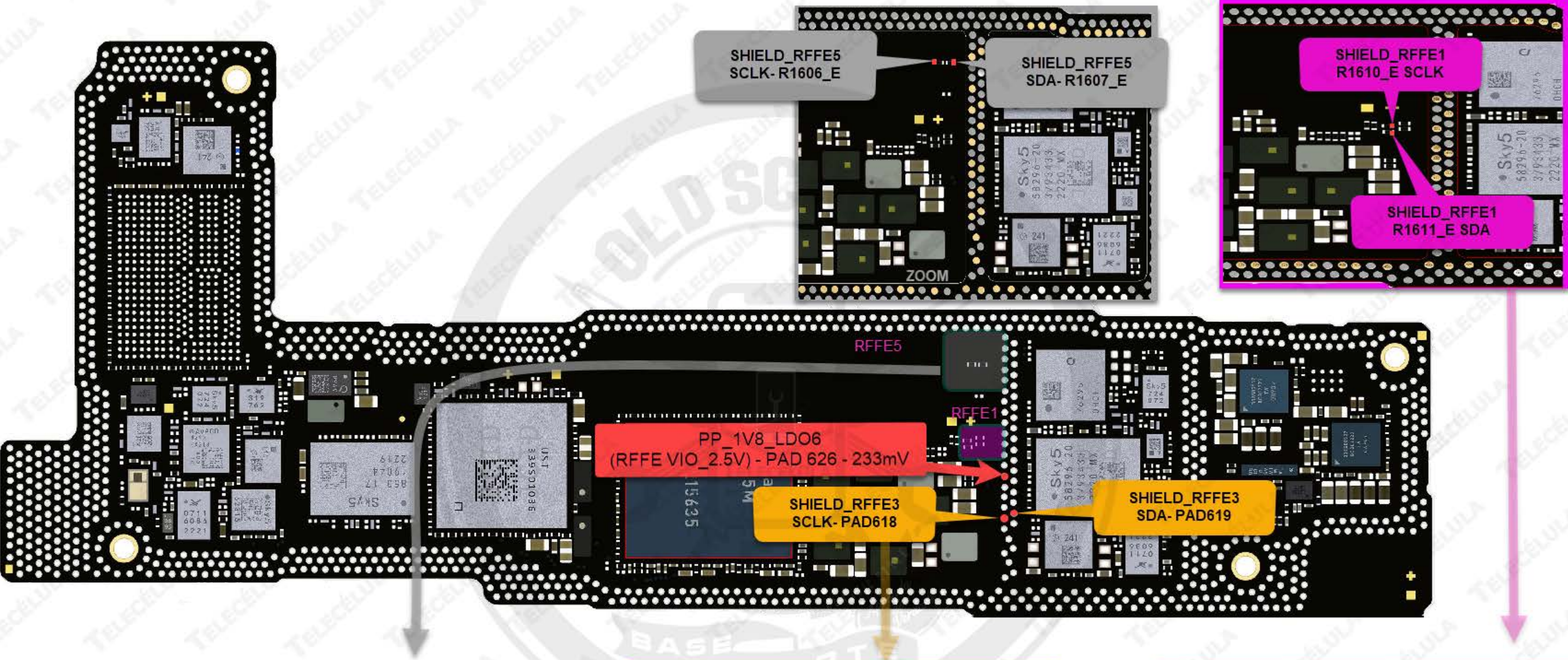
MIMO_U_E 0xA RFFE7_SDR
DSM_UHB 0x7 RFFE7_SDR
DSM_HB_E 0x3 RFFE5_SDR
DSM_LB_E 0x1 RFFE7_SDR
U_5G_U_W 0xE RFFE7_SDR

PA_HB_E 0x3 RFFE1_SDR
U_QETO_E 0x4 RFFE1_SDR
CPLR_L_E 0x8 RFFE1_SDR

PA_LMB 0x5 RFFEE6_SDR
PA_LB_E 0x1 RFFE6_SDR
QET_1 0x4 RFFE6_SDR

MIMO_L_E 0xA RFFE3_SDR
PA_LB_E 0x1 RFFE3_SDR
U_5G_L_W 0xE RFFE3_SDR
PA_HB_E 0x3 RFFE3_SDR
PA_UHB_L_E 0x6 RFFE3_SDR

SMARTBOARD- iPhone 14 / 14 Plus RFFE RF BOARD ONLY (OPEN BOARD) PART-1.



SHIELD_RFFE5_SDATA_SDR (PARTE -1)

PAUHBL_E (76295)	0x6	(RF PART)
PA_LB_E (SKY5-58296-20)	0x1	(RF PART)
U_5G_L_W (0711-6086)	0xE	(RF PART)
R1607_E - PAD594 SDA		
R1606_E- PAD592 SCL		

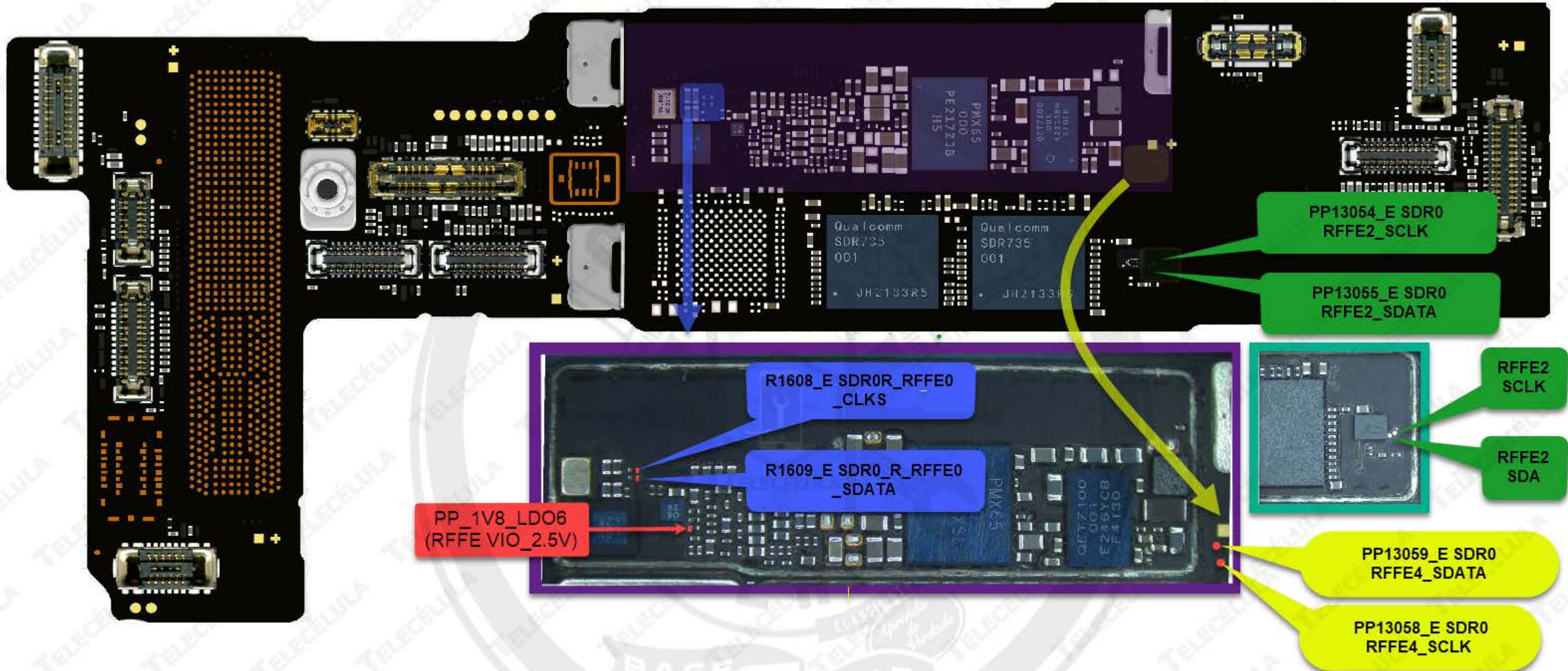
SHIELD_RFFE3_SDATA_SDR (PARTE -1)

PA_LB_E (SKY5-58296-20)	0xC	(RF PART)
U_QET0_E (QET7100)	0xD	(RF PART)
PAD619 SDA		
PAD618 SCL		

SHIELD_RFFE1_SDATA_SDR

PAUHBL_E (76295)	0x6	(RF PART)
R1611_E SDA		
R1610_E SCL		

SMARTBOARD- iPhone 14 / 14 Plus RFFE (MOUTEND BOARD - NEED REMOVE SHIELD).



SHIELD_RFFE0_SDATA_SDR

DSM_LB_E (L14)	0x1	(RF PART)
DSM_HB_E (SKY5-853-17)	0x3	(RF PART)
DSMUHB_E (AVAGO 82454)	0x7	(RF PART)
U_5G_U_W (0711)	0xE	(RF PART)
MIMO_U_E (SKY5-52315)	0xB	(RF PART)

R1609_E SDA / R1608_E SCL

SHIELD_RFFE4_SDATA_SDR

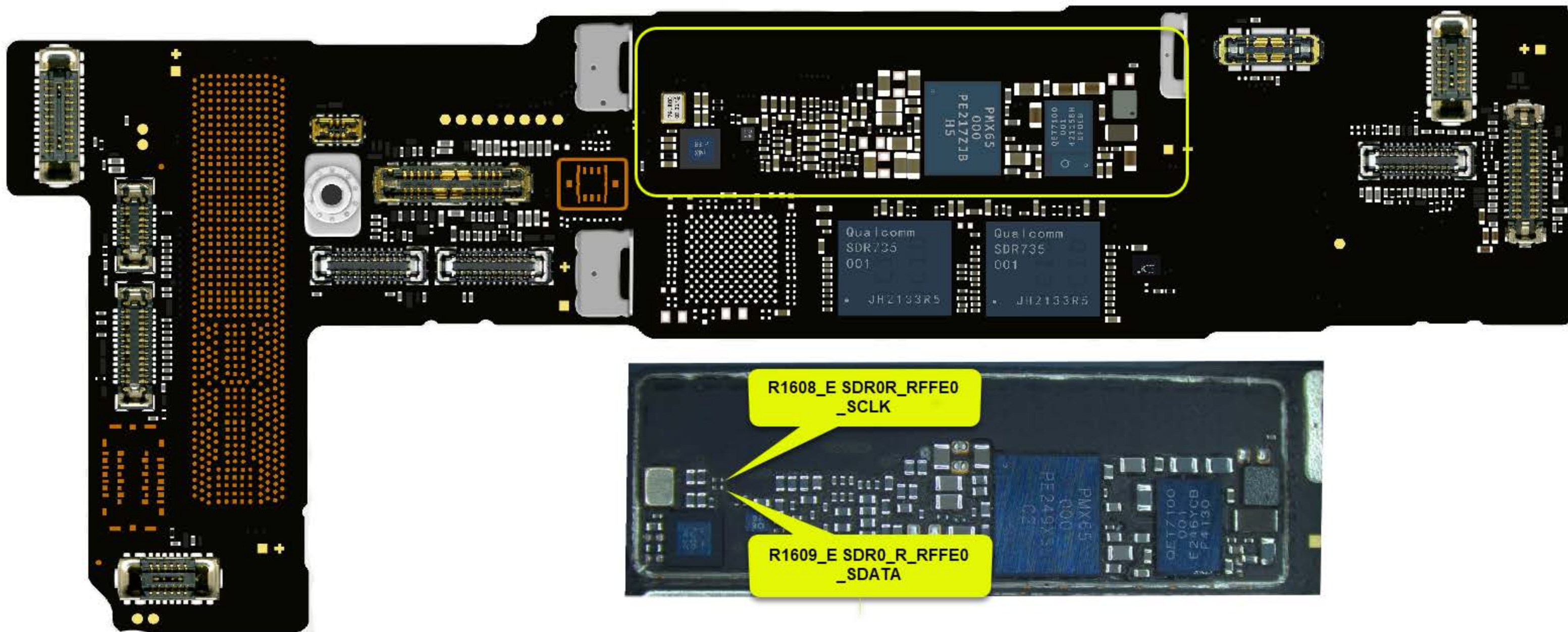
DSM_HB_E (SKY5-853-17)	0x3	(RF PART)
U_APTU_E (D9AV)	0xB	(RF PART)
CPRL_E (SKY5-724)	0x8	(RF PART)

R1605_E SDA / R1604_E SCL

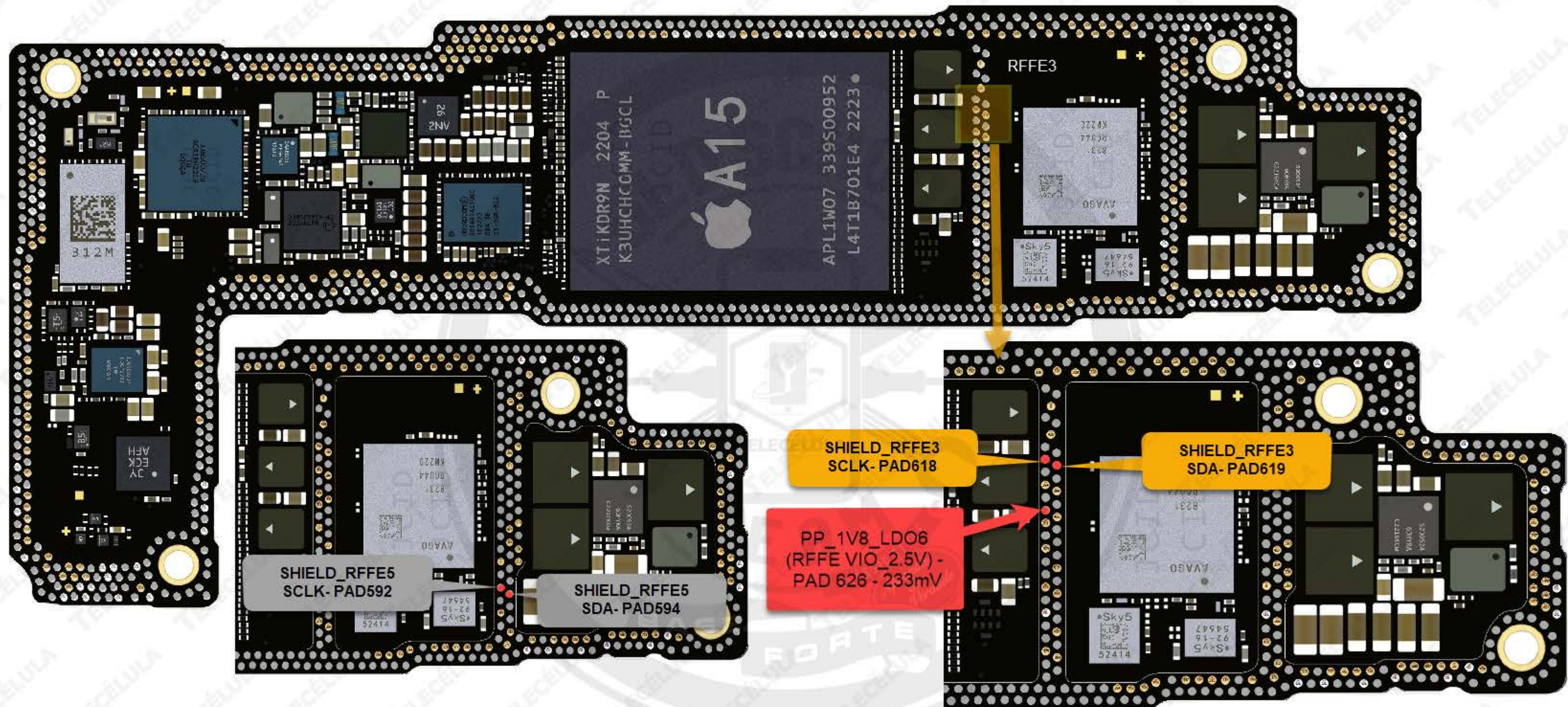
SHIELD_RFFE2_SDATA_SDR

PA_HB_E (AVAGO 8231)	0x3/0xC	(AP PART)
CPRL_E (SKY5-724)	0x8	(RF PART)
U_QET1_E (QET7100)	0xD	(AP PART)

PP13055_E R1613_E SDA / PP13054_E R1612_E SCL



SMARTBOARD- iPhone 14 / 14 Plus RFFE RF BOARD ONLY (OPEN BOARD) PART-2.



SHIELD_RFFE5_SDATA_SDR (PARTE -2)

MIMO_L_E (SKY5-52414) 0xA (AP PART)
PA_HB_E (AVAGO 8231) 0x3 (AP PART)

PAD 594 SDA
PAD 592 SCL

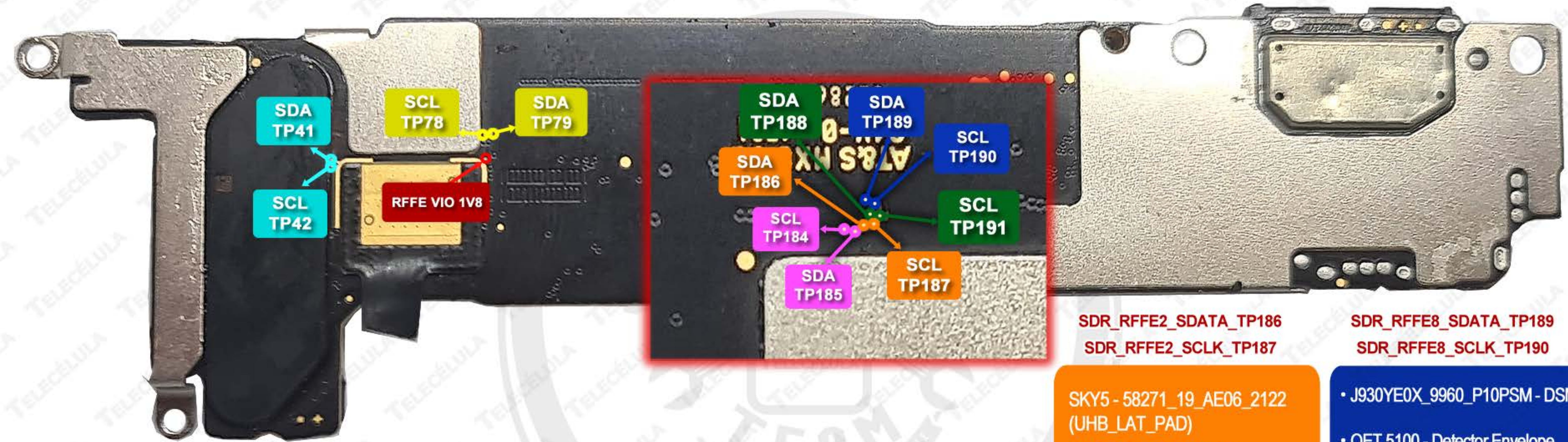
SHIELD_RFFE3_SDATA_SDR (PARTE -2)

PA_2G_E (SKY5-9216) 0x5 (AP PART)

PAD 619 SDA
PAD 618 SCL

IPHONE 13 MINI - RFFE SDR 868

MOUNTED BOARD



SDR_RFFE2_SDATA_TP186
SDR_RFFE2_SCLK_TP187

SDR_RFFE8_SDATA_TP189
SDR_RFFE8_SCLK_TP190

SKY5 - 58271_19_AE06_2122
(UHB_LAT_PAD)
BRY_E037_OVL4 - ET

• J930YE0X_9960_P10PSM - DSM
• QET 5100 - Detector Envelope

RFFE VIO 1V8 - TP74

RFFE VIO 1V8 - TP74

SDR_RFFE1_SDATA_TP188
SDR_RFFE1_SCLK_TP191

SDR_RFFE3_SDATA_TP185
SDR_RFFE3_SCLK_TP184

SDR_RFFE5_SDATA_TP41
SDR_RFFE5_SCLK_TP42

SDR_RFFE7_SDATA_TP79
SDR_RFFE7_SCLK_TP78

• SKY5 - 7217_7553_2124 (PA-2G) - **0x5**
• AVAGO - 8215_RL006_KM122 (HB PA) - **0x3**
• QET 5100 - **0x4**
• AT - 10 - **0x8**

RFFE VIO 1V8 - TP74

• (TOP) 0611-7146-2123 - **0xE**
• AVAGO 8215_RL006_KM122-HBPA - **0x3**
• SKY5 140419 - **0xA**
• J930YE0X_9960_P10PSM - DSM - **0x6**
• SKY5 58271-10-AE06_2122 - LBPA - **0x1**

RFFE VIO 1V8 - TP74

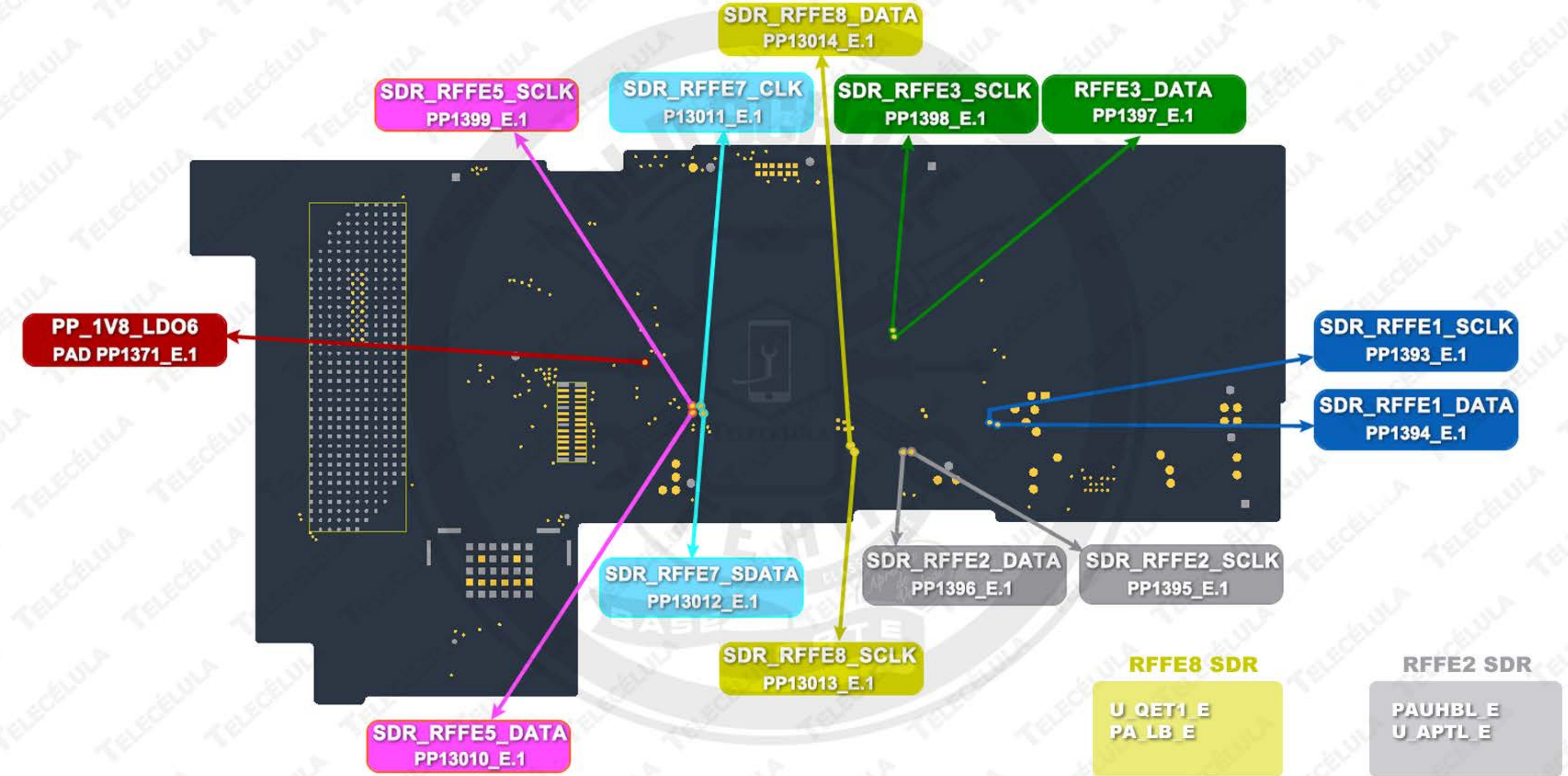
• 0611-2829-2123 (TOP) CI X11 - **0xE**
• SKY5_53838_17 - 3103273_2125MX_ UHB_DSM - **0x7**
• AVAGO_8225_KM121 - DSM_UHB_E - **0x3**
• SKY5 14 04 19 - MIMO_LOWER_DSM - **0xA**
• K89 - DSM_LB_E - **0x3**

RFFE VIO 1V8 - TP74

• SKY5 53838_17_3103273_2125MX - UHB DSM - **0x3**
• BRY B057 OBOC - **0xB**
• SKY5 9723 0080 - TOP (CI X13) - **0x8**

RFFE VIO 1V8 - TP74

SMARTBOARD - IPHONE 13 PRO MAX



RFFE 1 SDR

PA_HB_E	0x3	RFFE1_SDR
PA_2G_E	0x5	RFFE1_SDR
CPLR_L_E	0x8	RFFE1_SDR
U_QET0_E	0x4	RFFE1_SDR

RFFE 3 SDR

PA_HB_E	0x3	RFFE3_SDR
PA_UHB_L_E	0x6	RFFE3_SDR
MIMO_L_E	0xA	RFFE3_SDR
PA_LB_E	0x1	RFFE3_SDR
U_5G_L_W	0xE	RFFE3_SDR

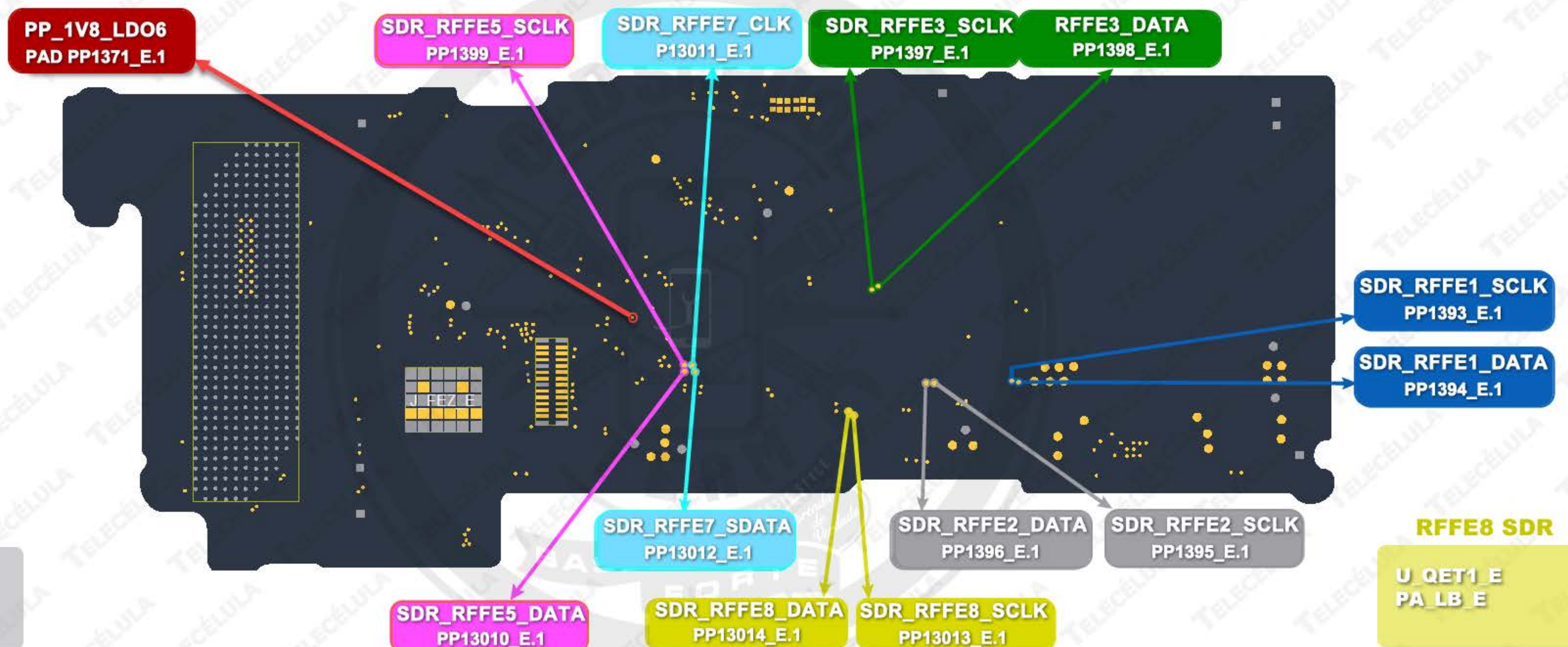
RFFE 5 SDR

DSM_LB_E	0x1	RFFE5_SDR
DSM_HB_E	0x3	RFFE5_SDR
U_5G_U_W	0xE	RFFE5_SDR
MIMO_U_E	0xA	RFFE5_SDR
DSM_UHB_E	0x7	RFFE5_SDR

RFFE 7 SDR

U_APTU_E	0xB	RFFE7_SDR
CPLR_U_E	0x8	RFFE7_SDR
DSM_HB_E	0x3	RFFE7_SDR

SMARTBOARD - IPHONE 13 PRO



RFFE 1 SDR

PA_HB_E	0x3	RFFE1_SDR
PA_LMB_2G_E	0x5	RFFE1_SDR
CPLR_L_E	0x8	RFFE1_SDR
U_QET0_E	0x4	RFFE1_SDR

RFFE 3 SDR

PA_HB_E	0x3	RFFE3_SDR
PA_UHB_L_E	0x6	RFFE3_SDR
MIMO_L_E	0xA	RFFE3_SDR
PA_LB_E	0x1	RFFE3_SDR
U_5G_L_W	0xE	RFFE3_SDR

RFFE 7 SDR

UAPTL_E	0xB	RFFE7_SDR
CPLR_U_E	0x8	RFFE7_SDR
DSM_HB_E	0x3	RFFE7_SDR

RFFE 5 SDR

U_5G_U_W	0xE	RFFE5_SDR
DSM_UHB_E	0x7	RFFE5_SDR
DSM_LB_E	0x1	RFFE5_SDR
DSM_HB_E	0x3	RFFE5_SDR
MIMO_U_E	0xA	RFFE5_SDR

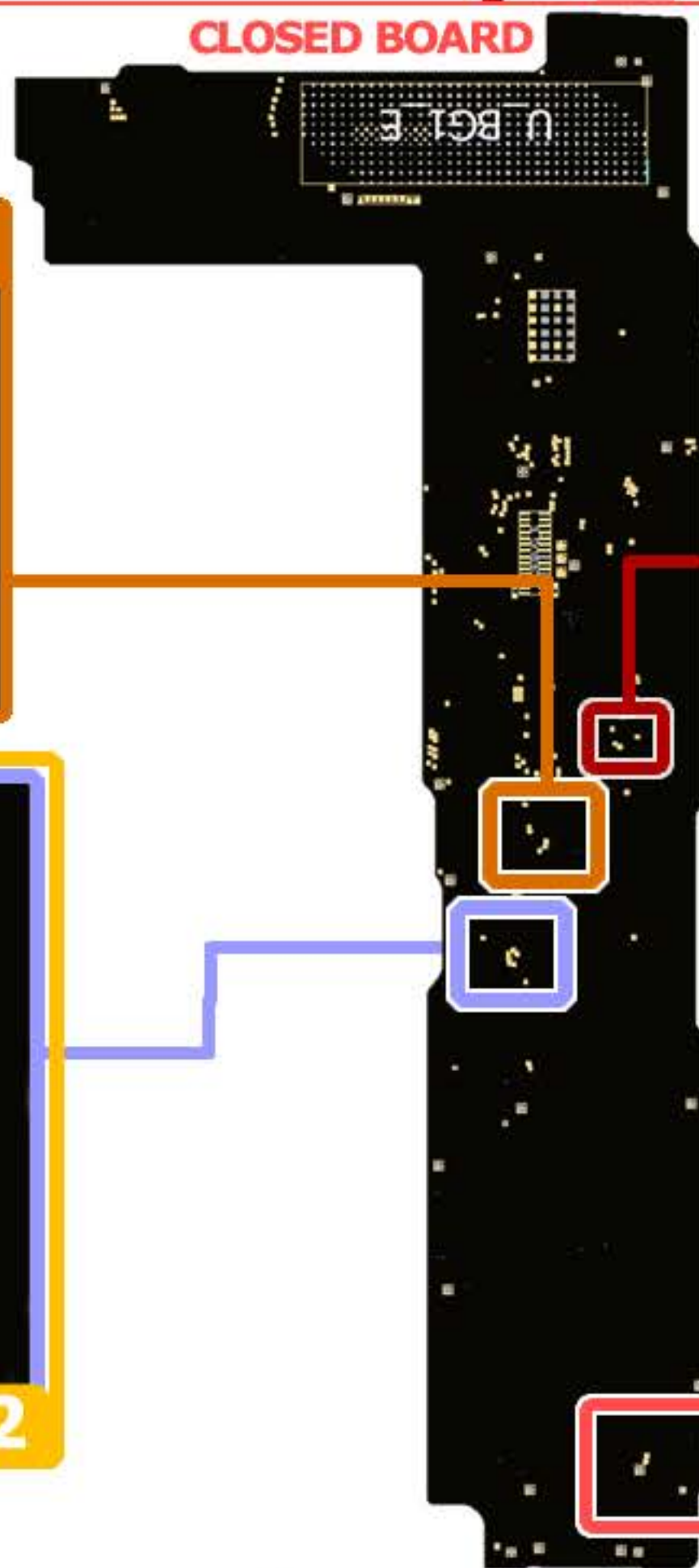
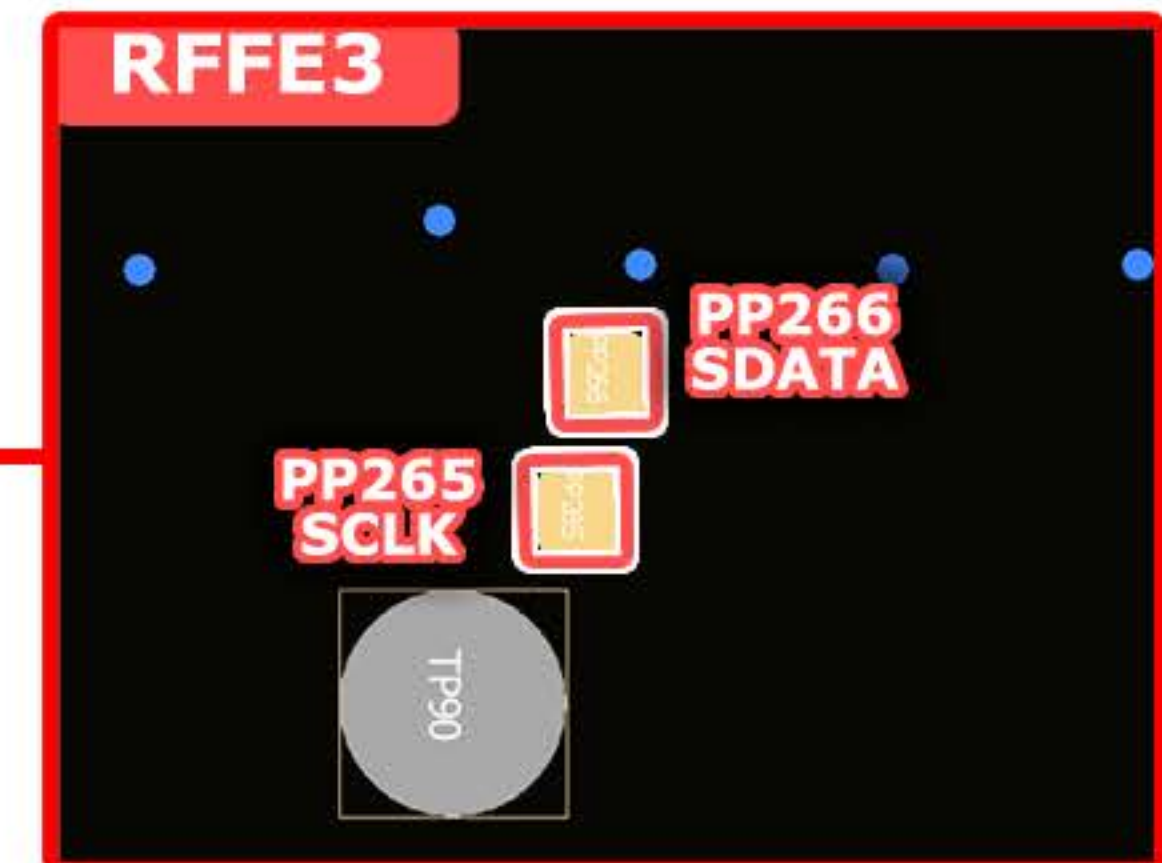
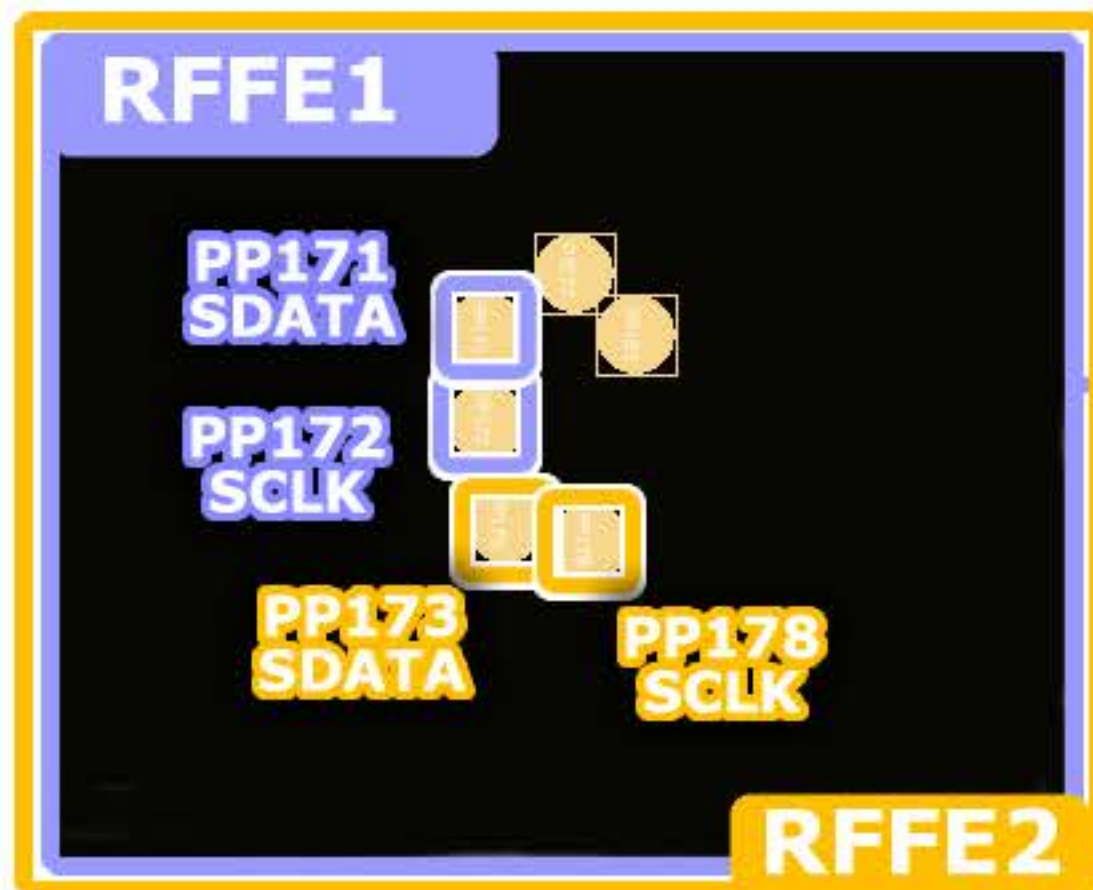
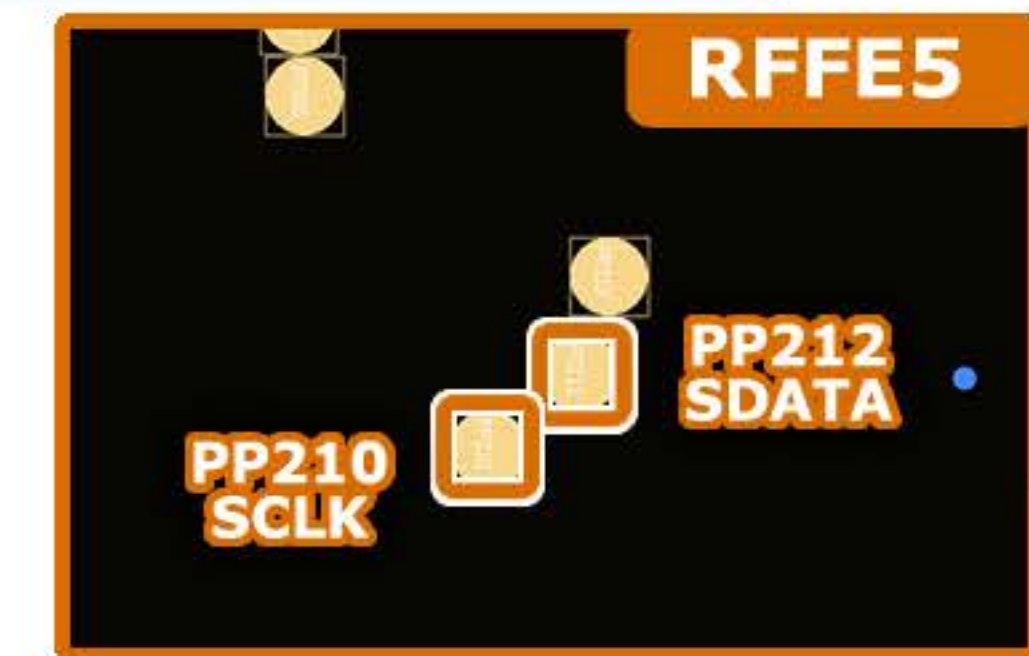
BOARD TOP

BOARD BOTTOM

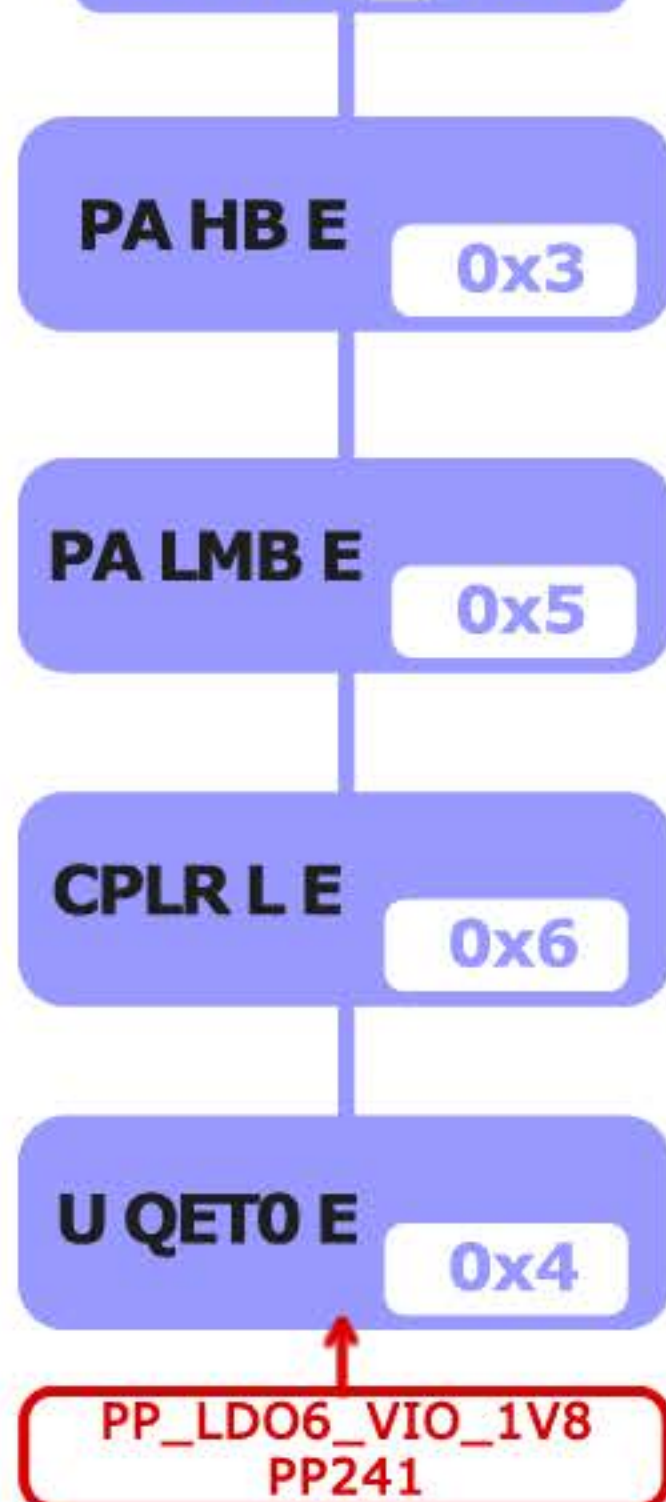
RFFE - (U_SDRE)

CLOSED BOARD

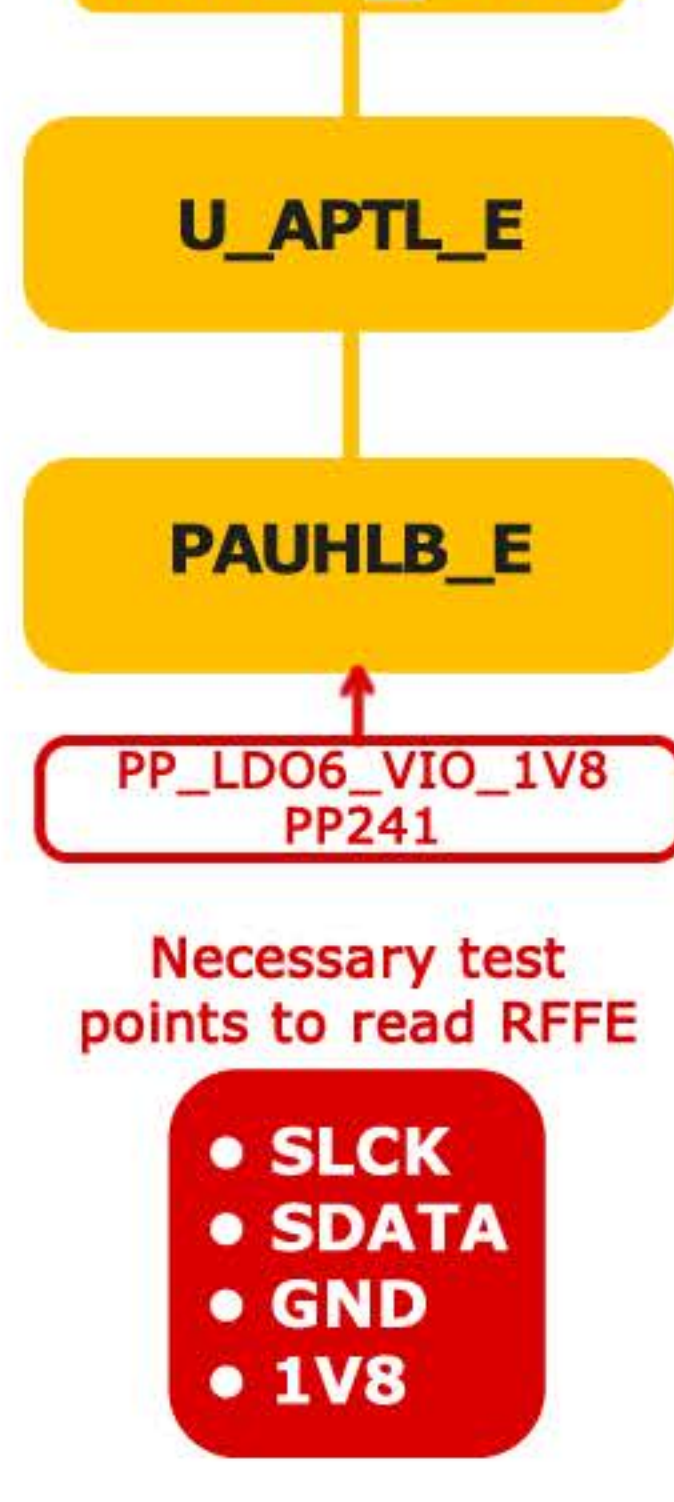
IPHONE 12 MINI



RFFE1_SDR



RFFE2_SDR



RFFE3_SDR

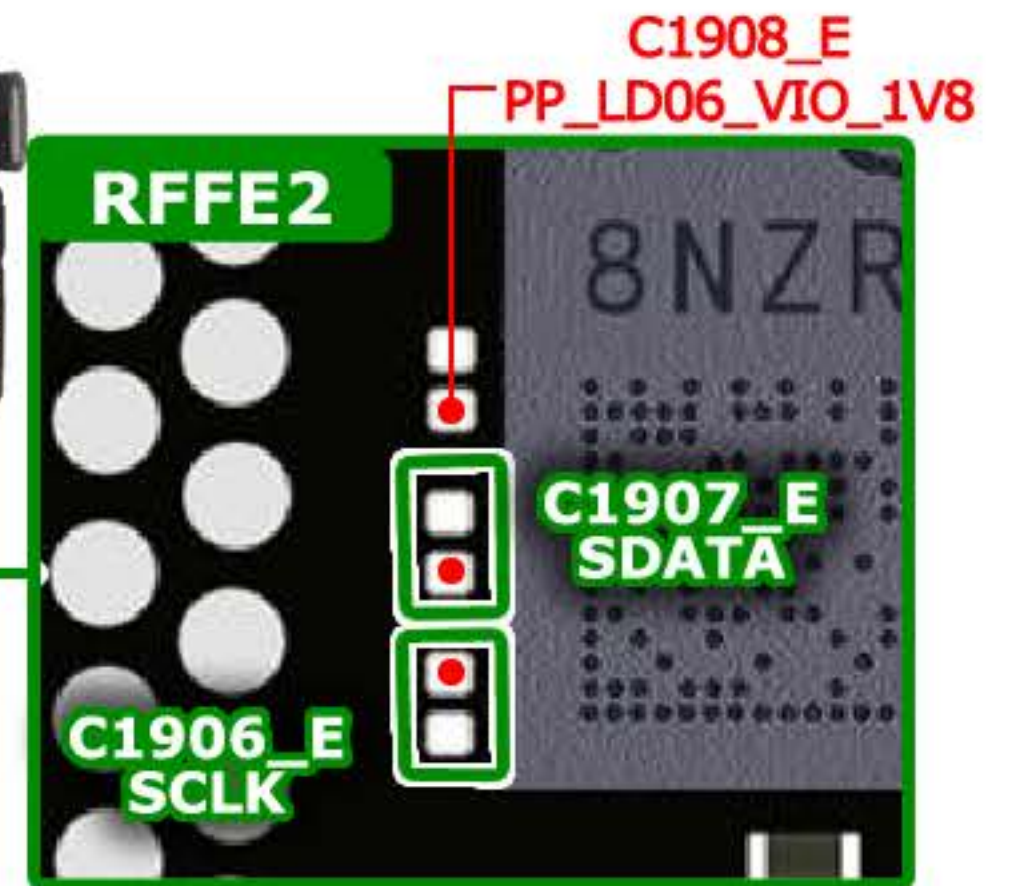
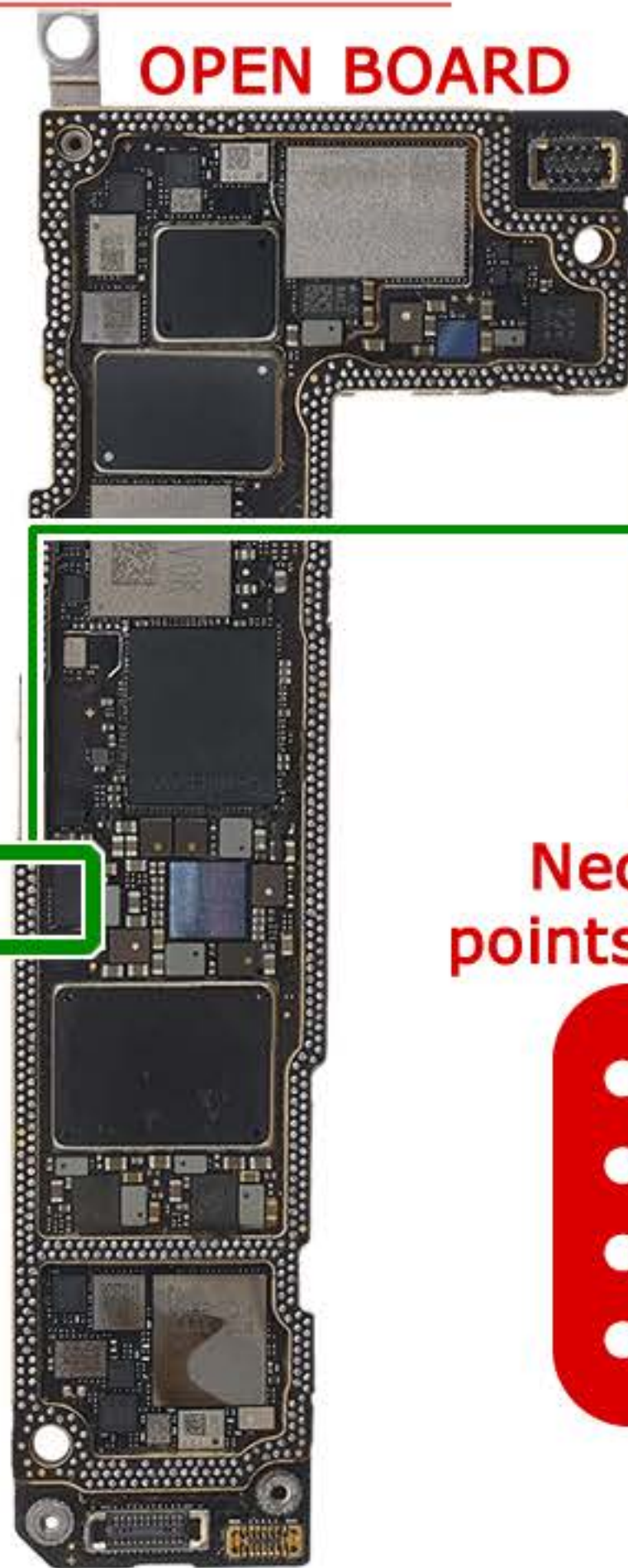
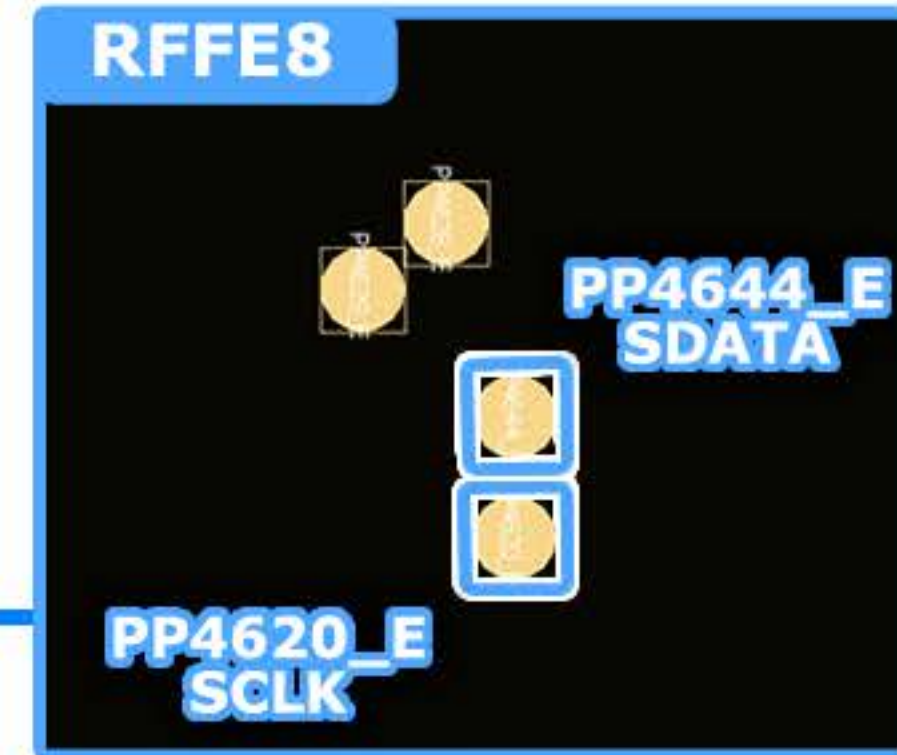
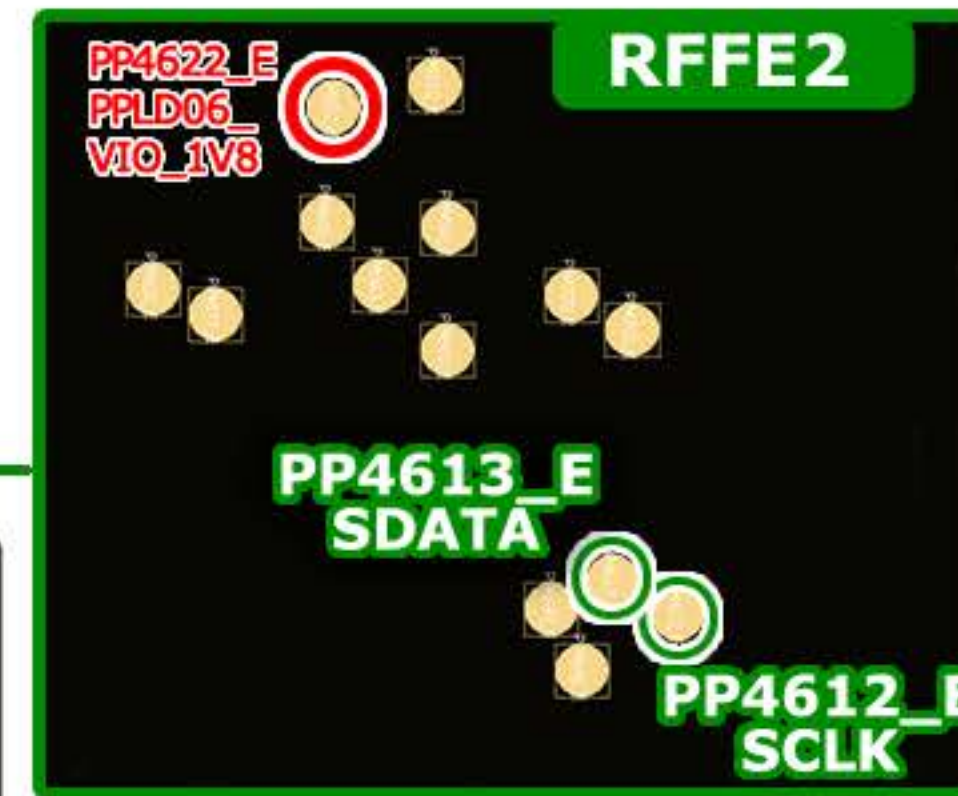
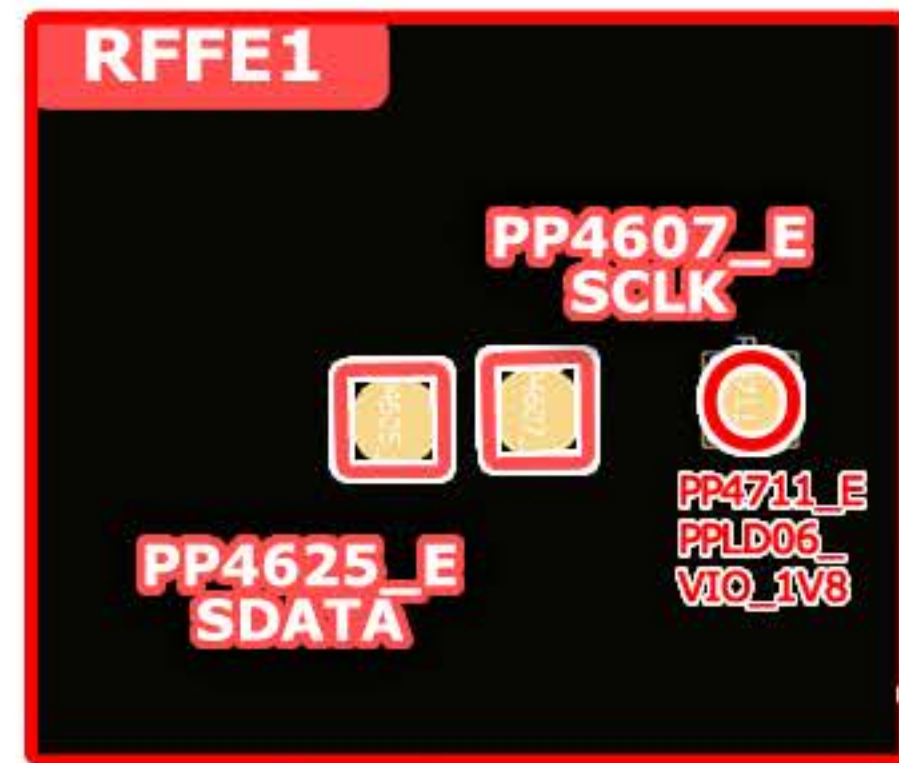
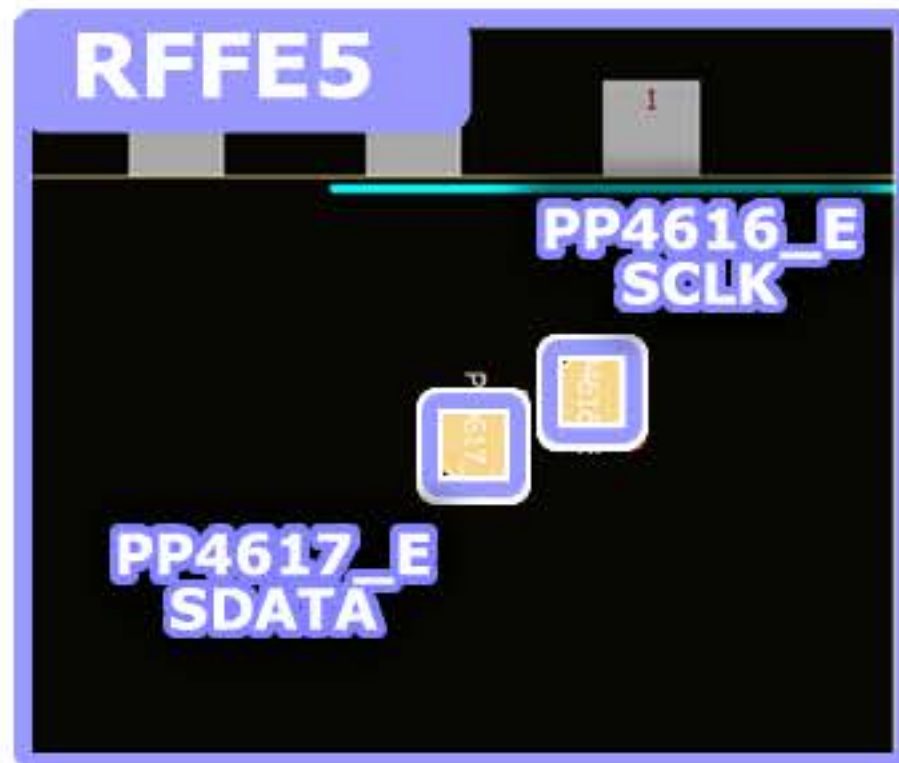


RFFE5_SDR



RFFE - SDR

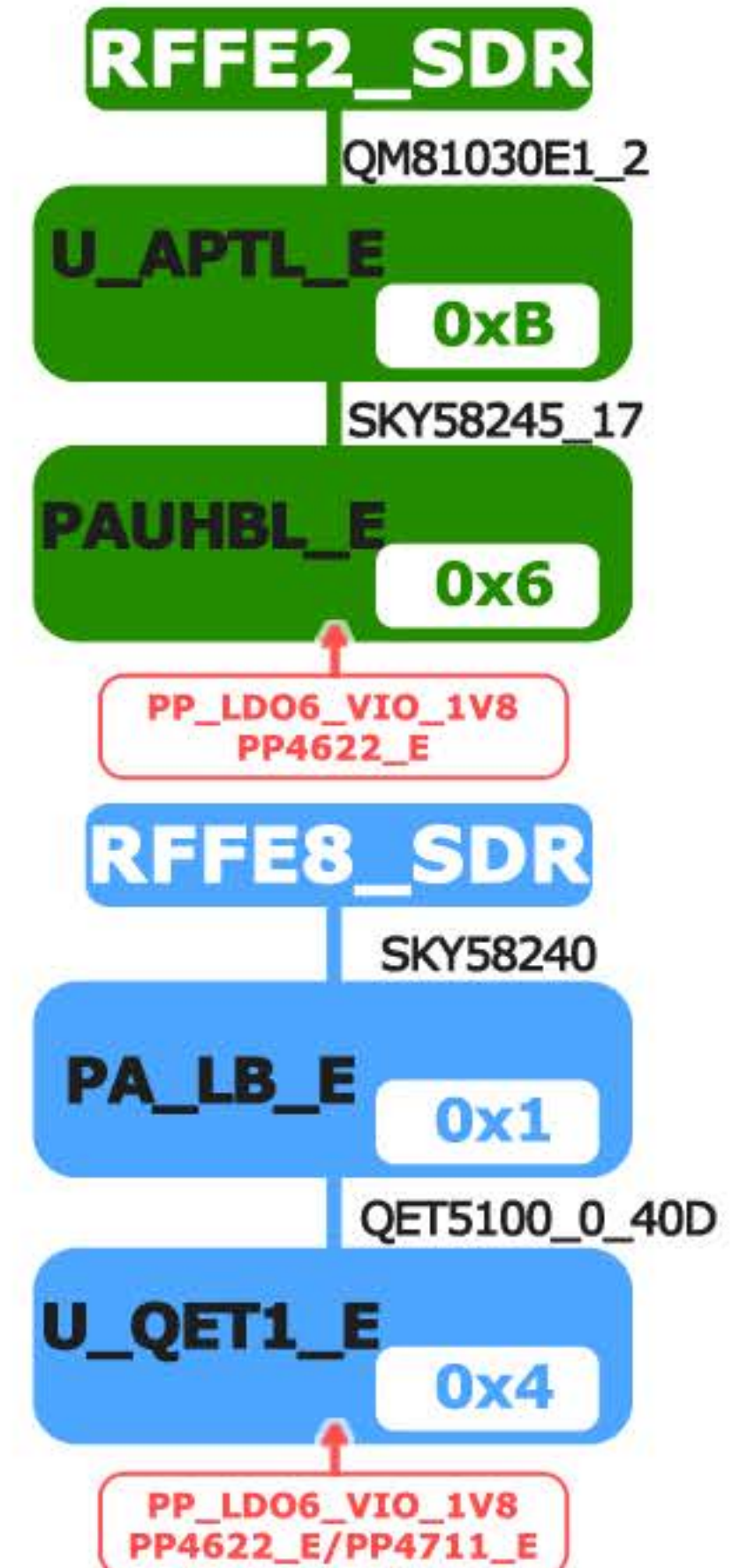
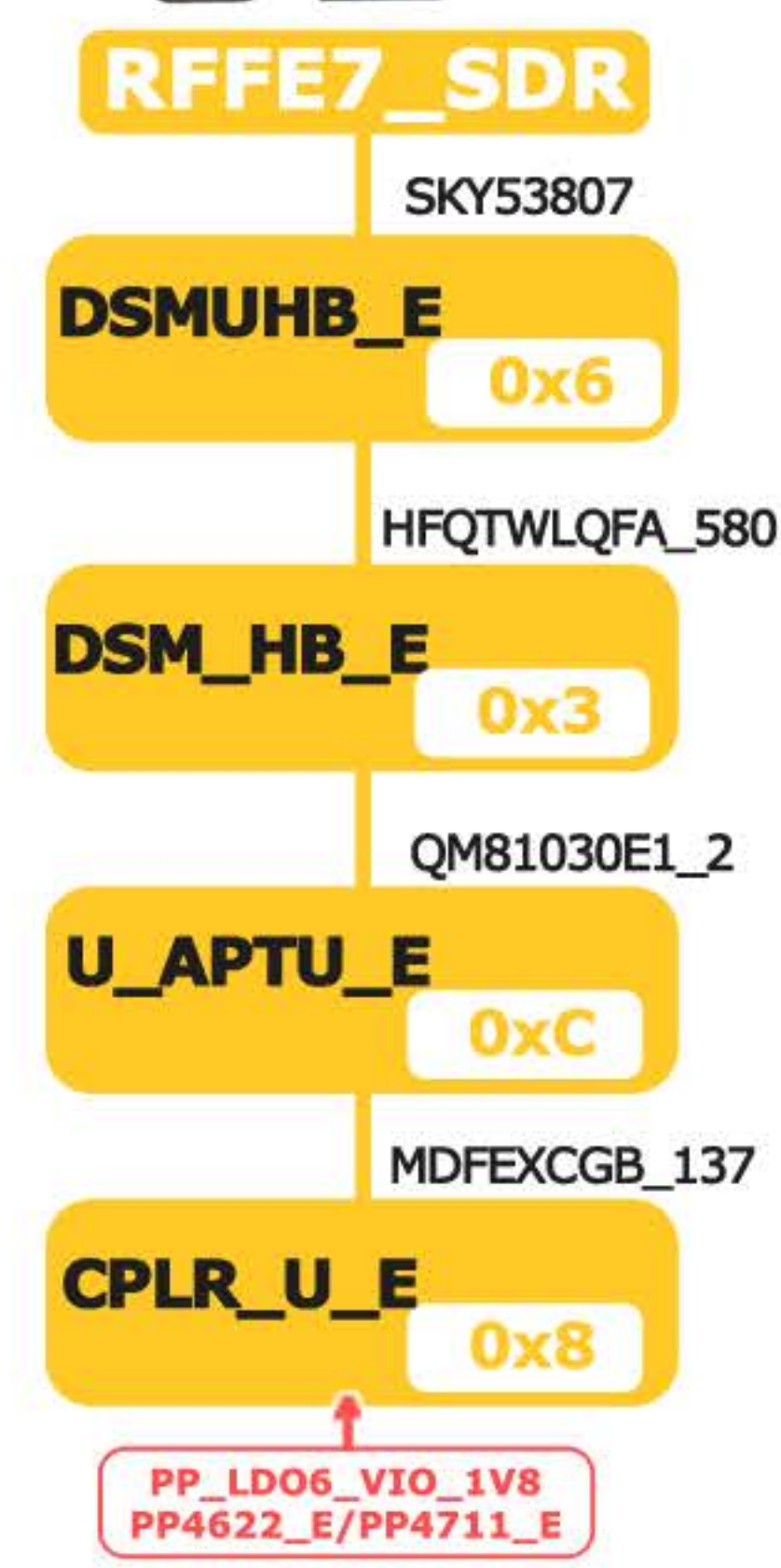
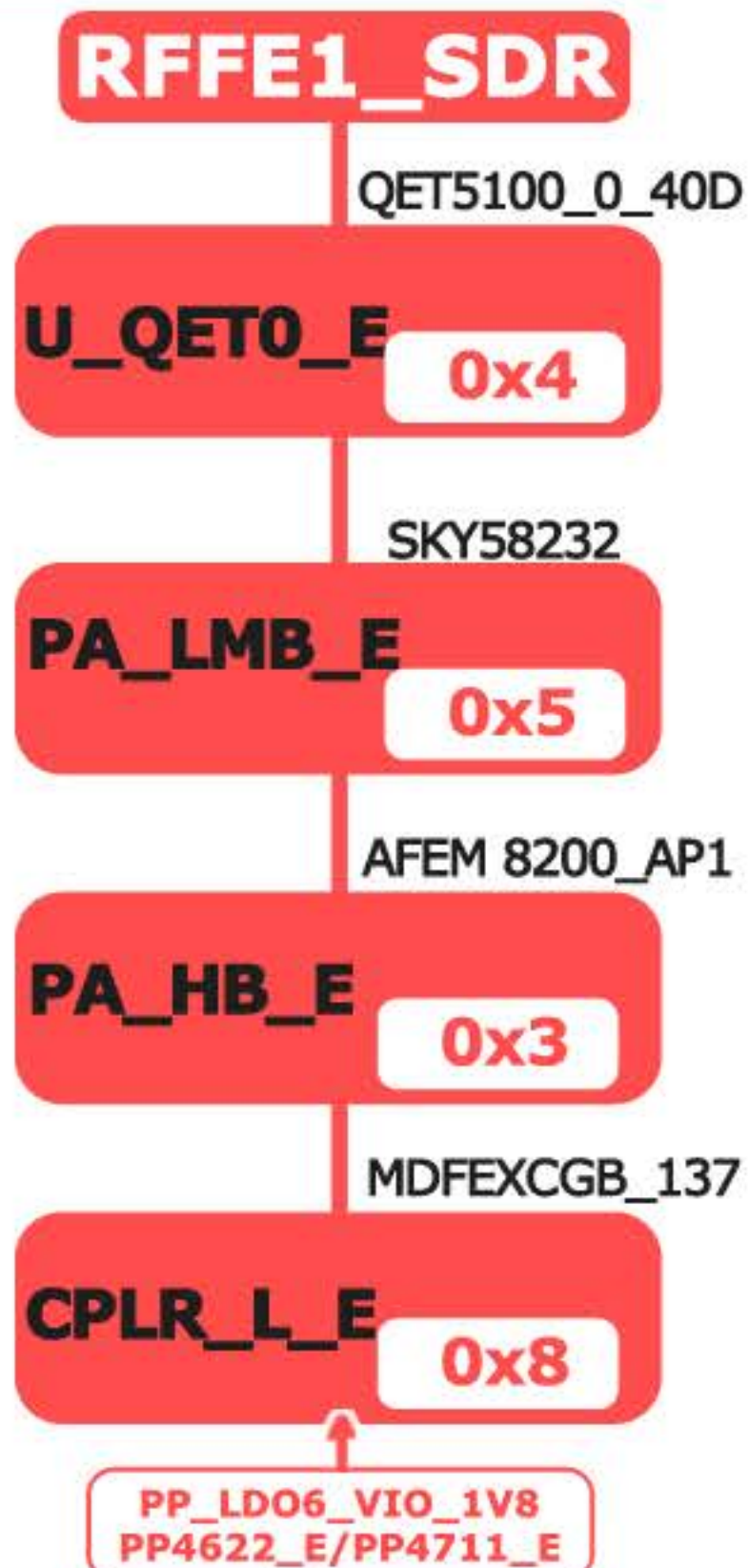
IPHONE 12 / 12 PRO



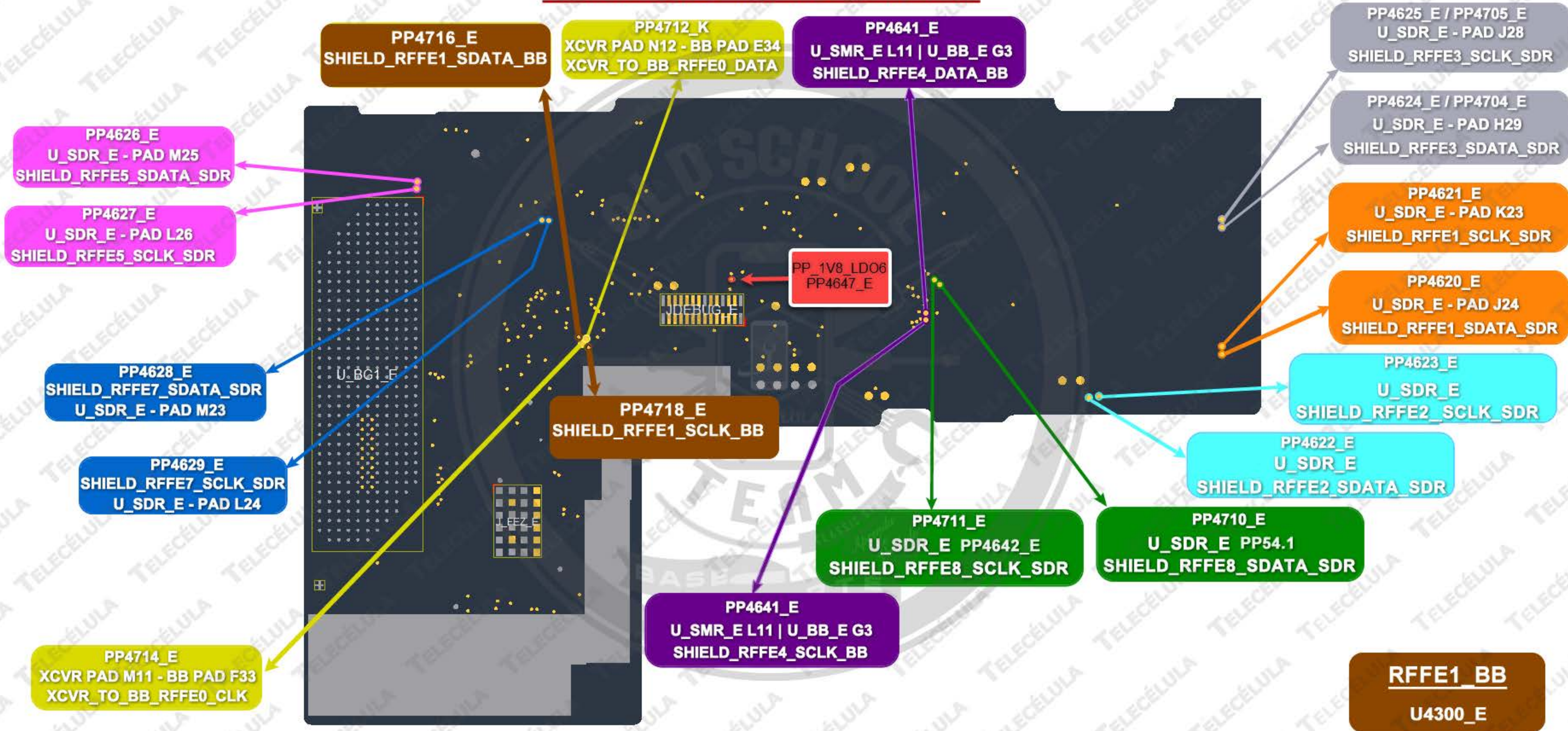
Necessary test points to read RFFE

- SCLK
- SDATA
- GND
- 1V8

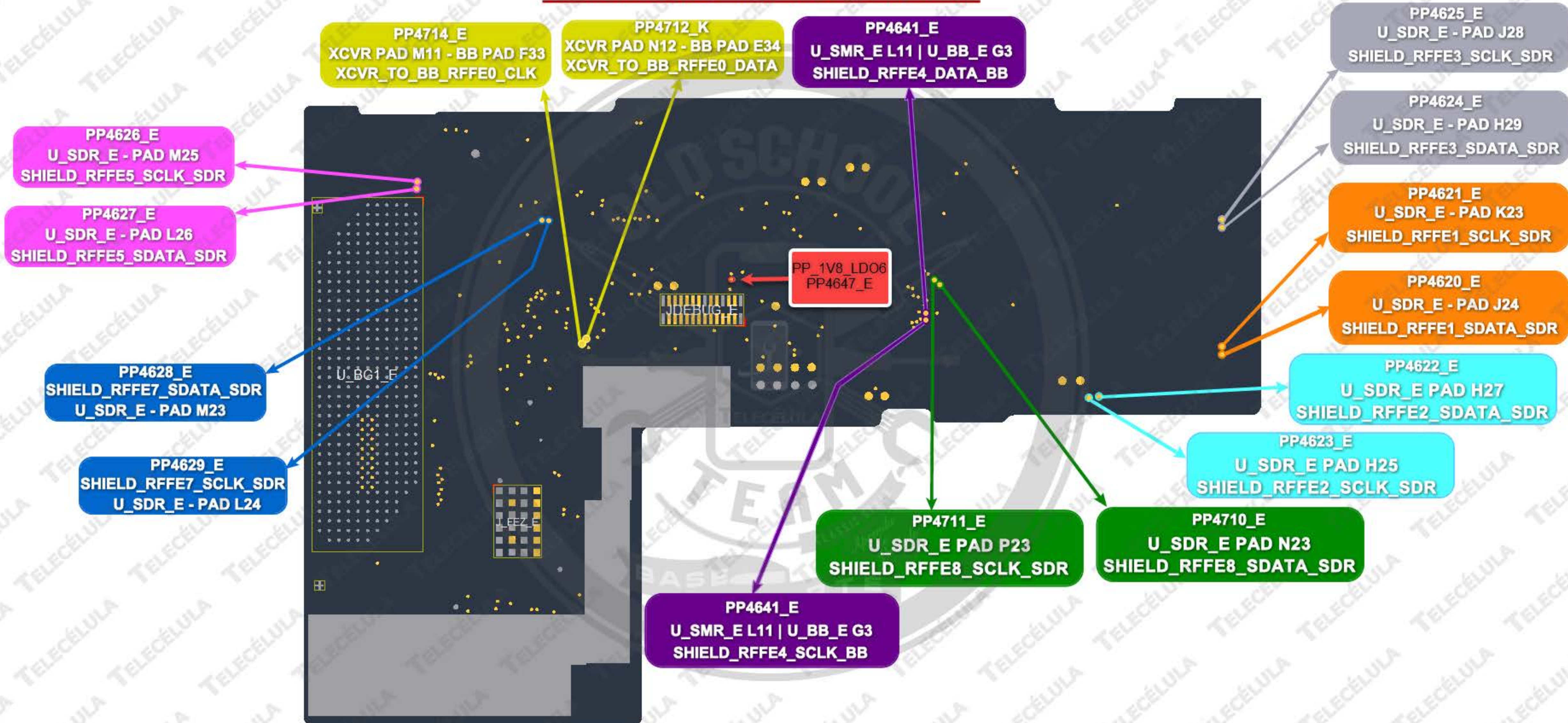
LB: 2G
MB: 3G
HB: 4G
N77/N79: 5G



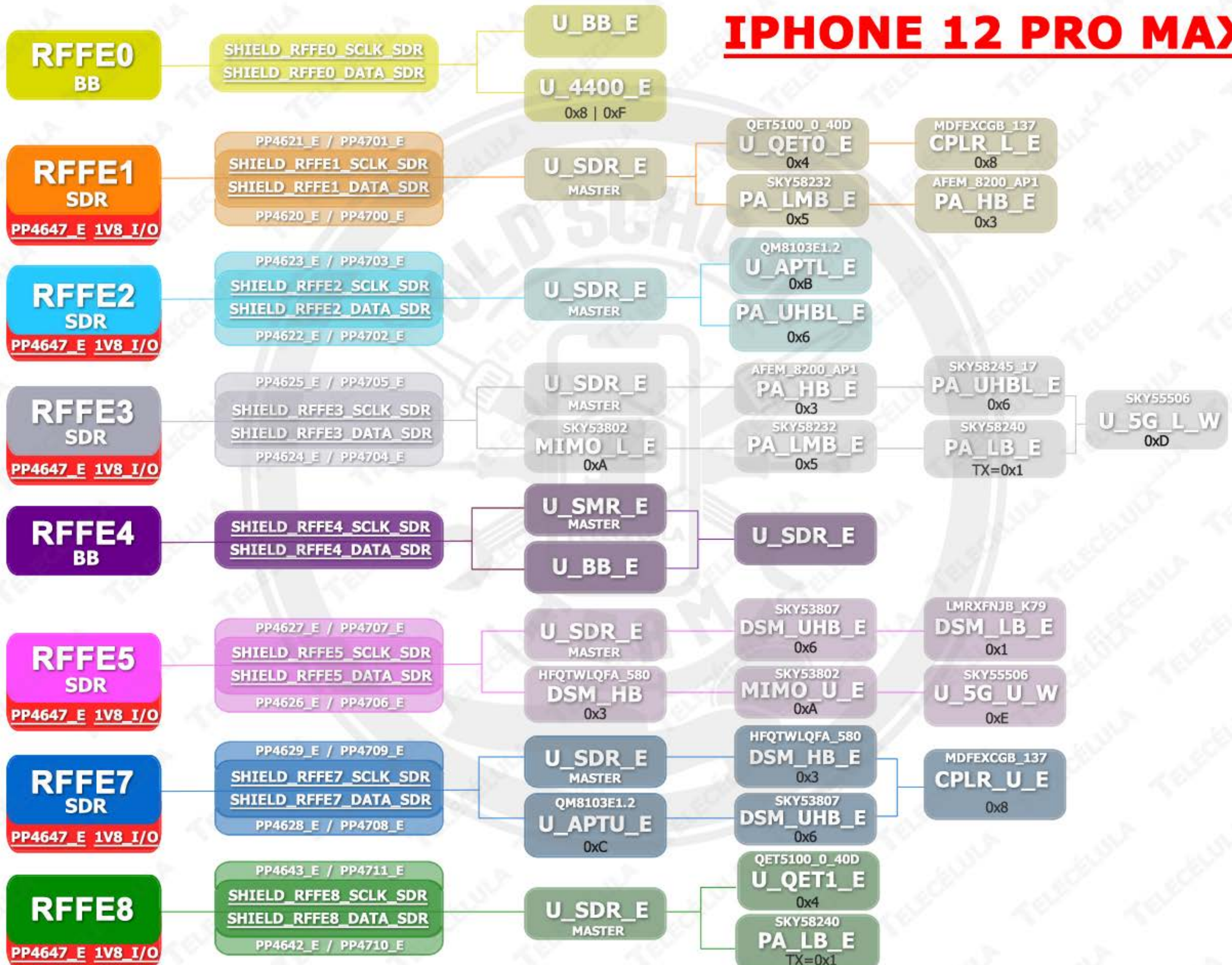
SMARTBOARD - IPHONE 12 PRO MAX



SMARTBOARD - IPHONE 12 PRO MAX



IPHONE 12 PRO MAX



IPHONE 12 PRO MAX

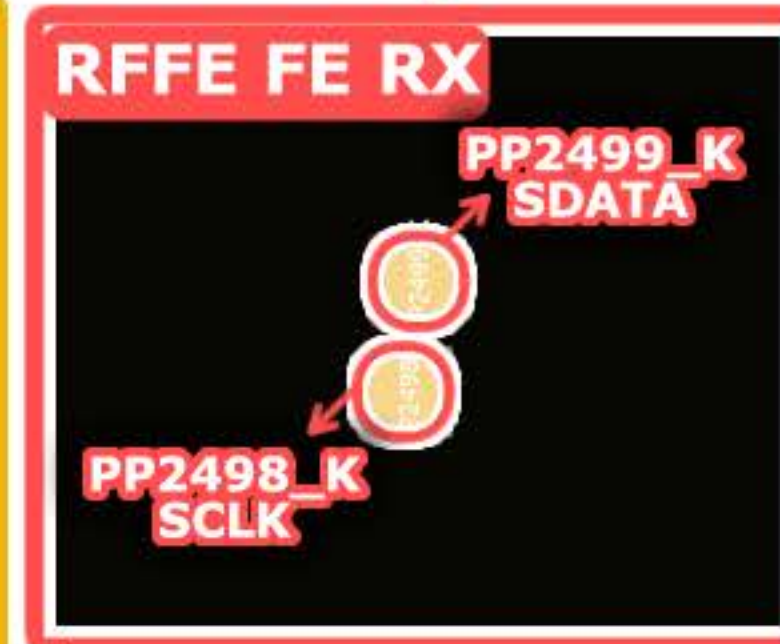
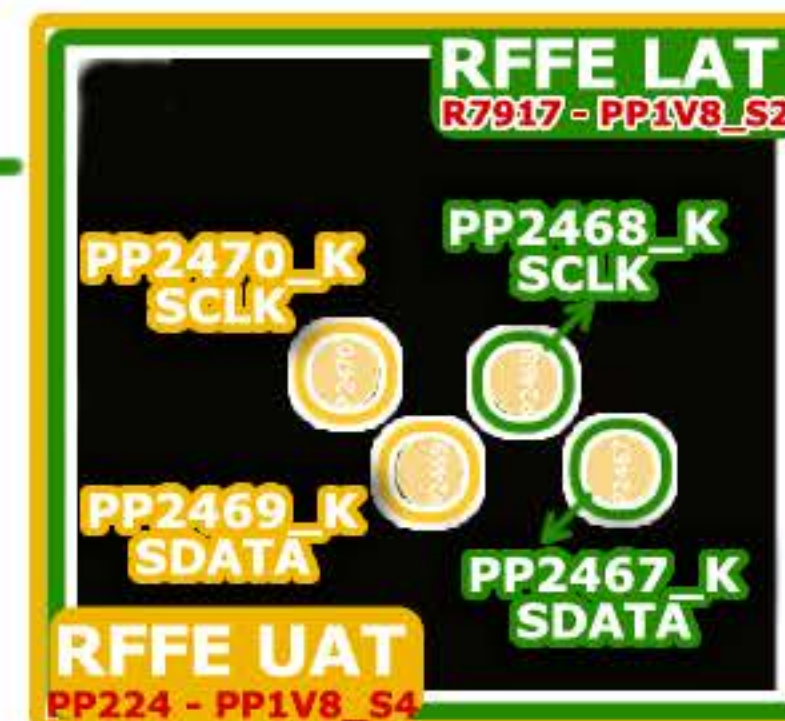
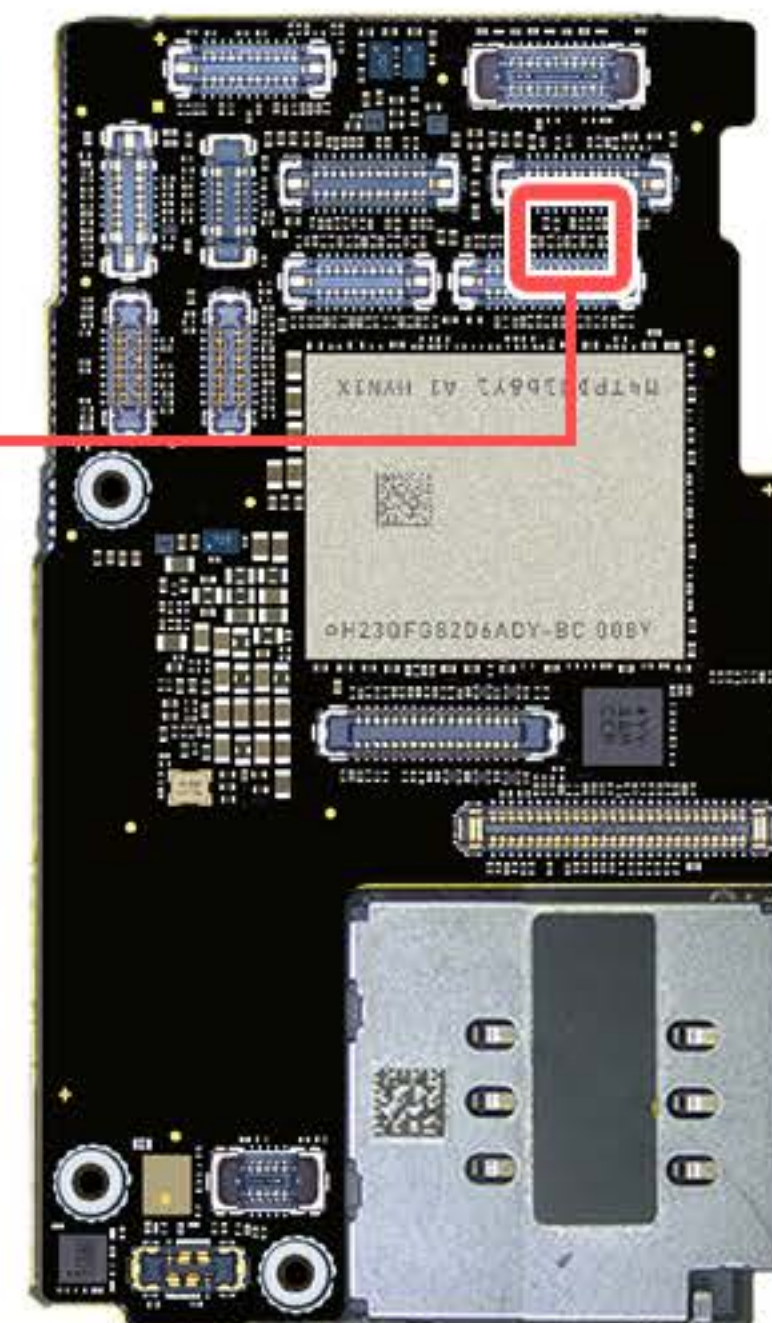
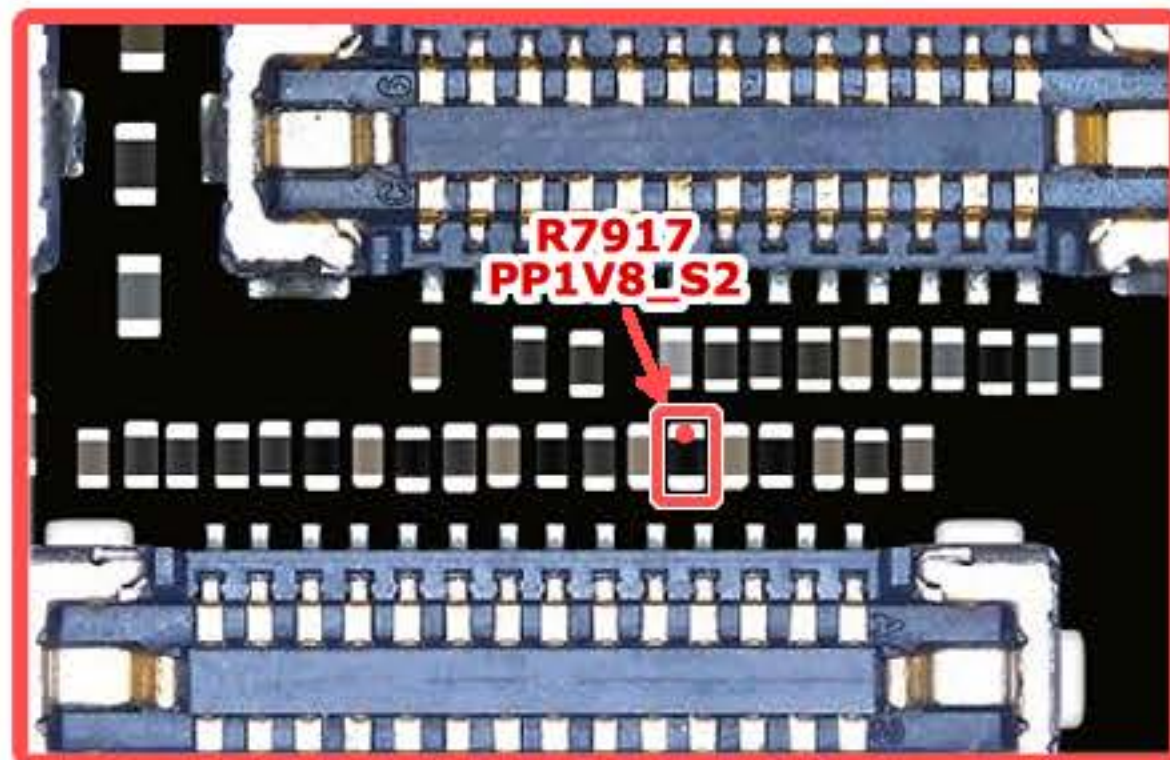


IPHONE 11 PRO/ PRO MAX

APN: 820-01682-08 APN: 820-00189-A

RFFE - XCVR

CLOSED BOARD



RFFE XCVR TO FE RX CLK

SKY78220

PA LB K

0xD

HFQXRJDB 728

MIMODS K

0x7

AFEM
8100_AP1

PA HB K

0xE

UHB_2GS_PAD

PA UHB K

0xF

MDFEGFFB_126

U 5G L W

0x41

WI-FI/5G

0x5

SKY13787

DSM HB K

0xB

HB LNA

LMRXFRJB_K57

DSM LB K

0xA

MDFEGFFB_126

U 5G U W

0x41

FEM

0x6

PP2495_K
RFFE_LAA_UAT_VIO

- SLCK
- SDATA
- GND
- 1V8*

Necessary test points to read RFFE

RFFE XCVR TO LB TX DATA

QM81013

ETIC_K

0xC

PA LB_K

0x1

CPLR_U_K

0x9

CPLR_L_K

0x8

PA_UHB_K

2G

0x3

PP2495_K
RFFE_LAA_UAT_VIO

RFFE BB TO LAT DATA RFFE BB TO LAT SCK

QM18833

LAT_SUBBUS

LATTUN_K

0x8

R7917 - PP1V8_S2

RFFE XCVR TO HBTX DATA RFFE XCVR TO HBTX SCL

UHB_2GS_PAD

PA_UHB_K

0x3

0xF

ATEM_8100_AP1

PA_HB_K

0x2

ETIC_K

0xC

PP2495_K
RFFE_LAA_UAT_VIO

RFFE LB TX



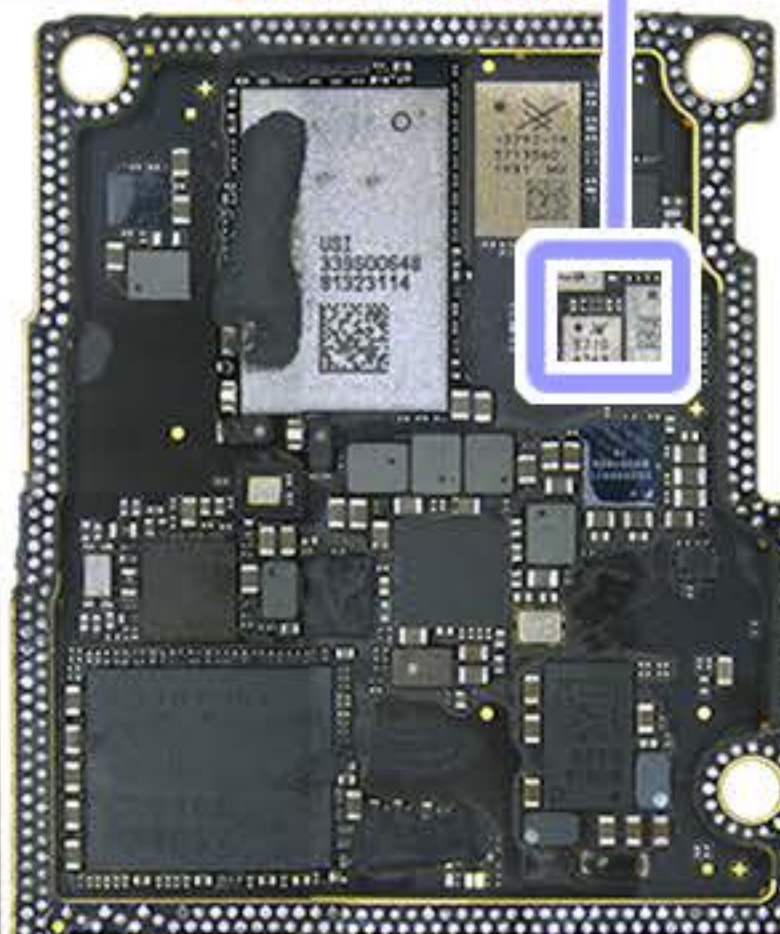
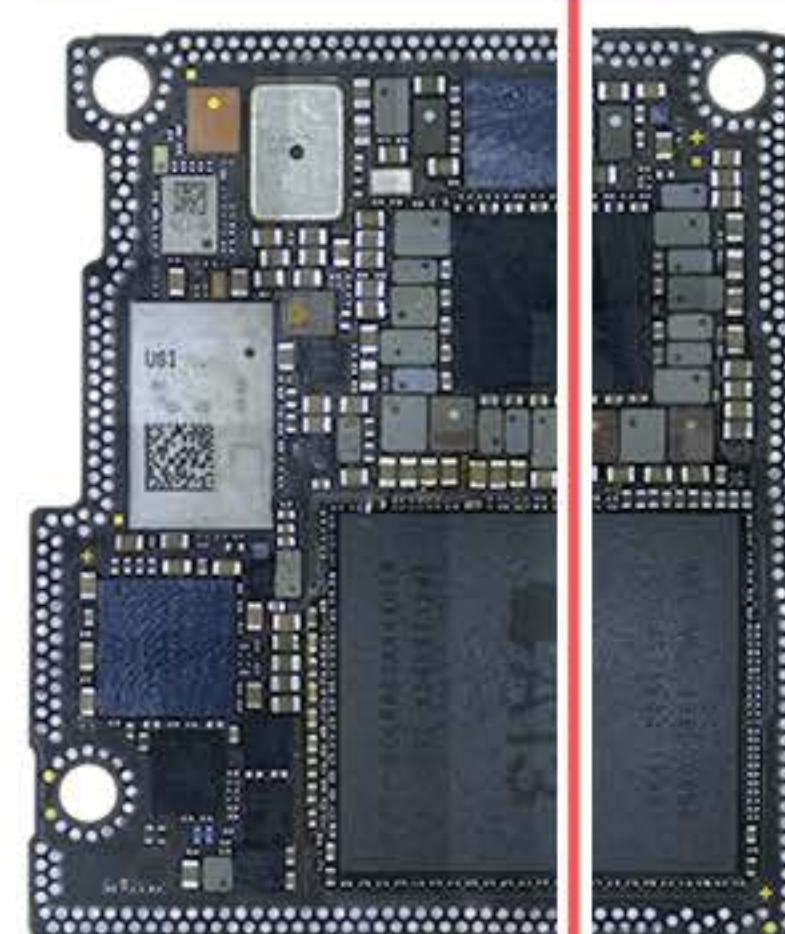
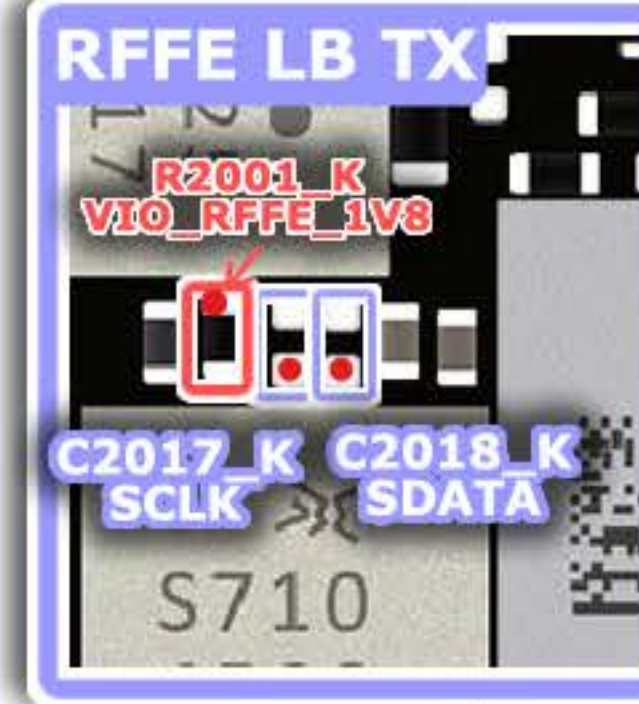
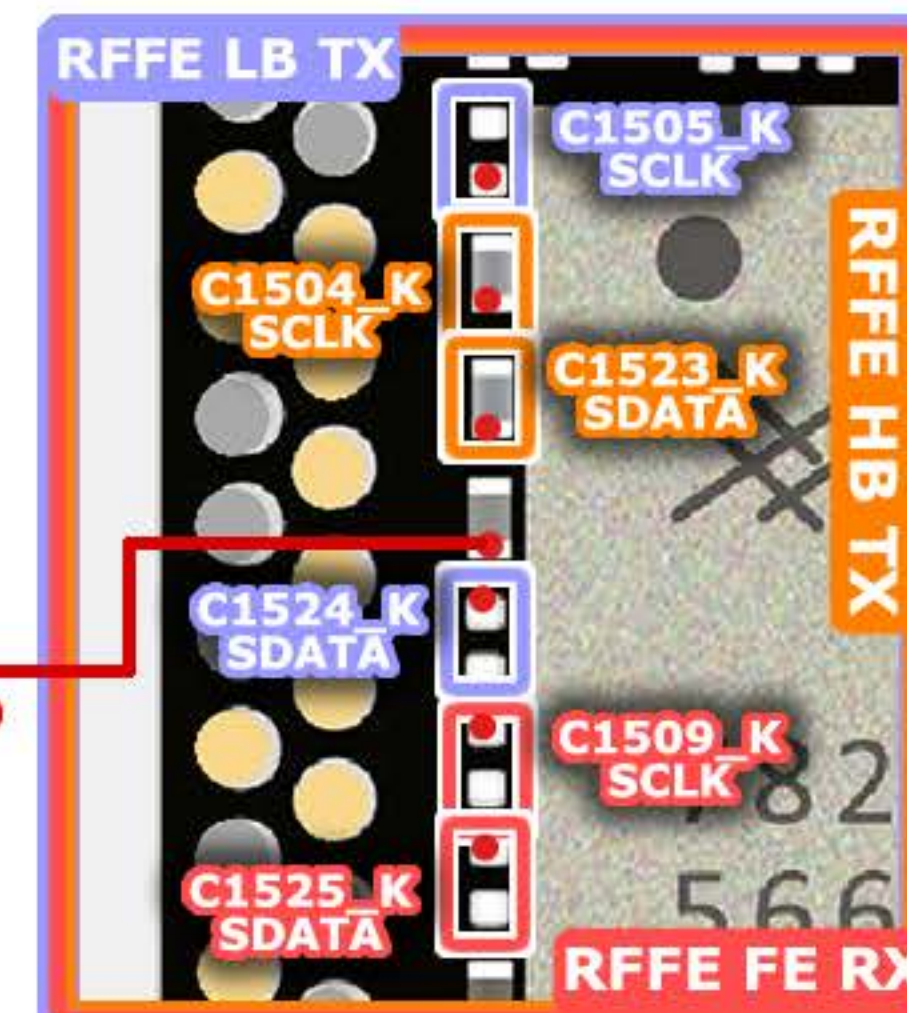
RFFE BB TO UAT

QM18833

UATTUN_K

0x8

PP224_W
VDD1V8_S4



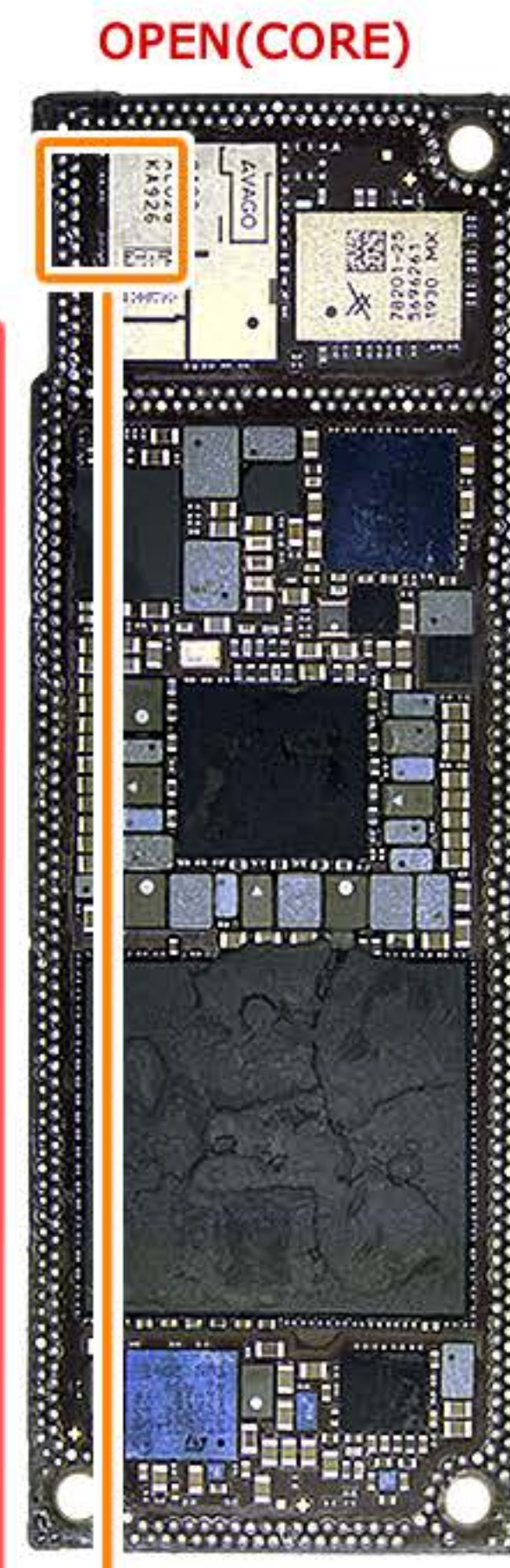
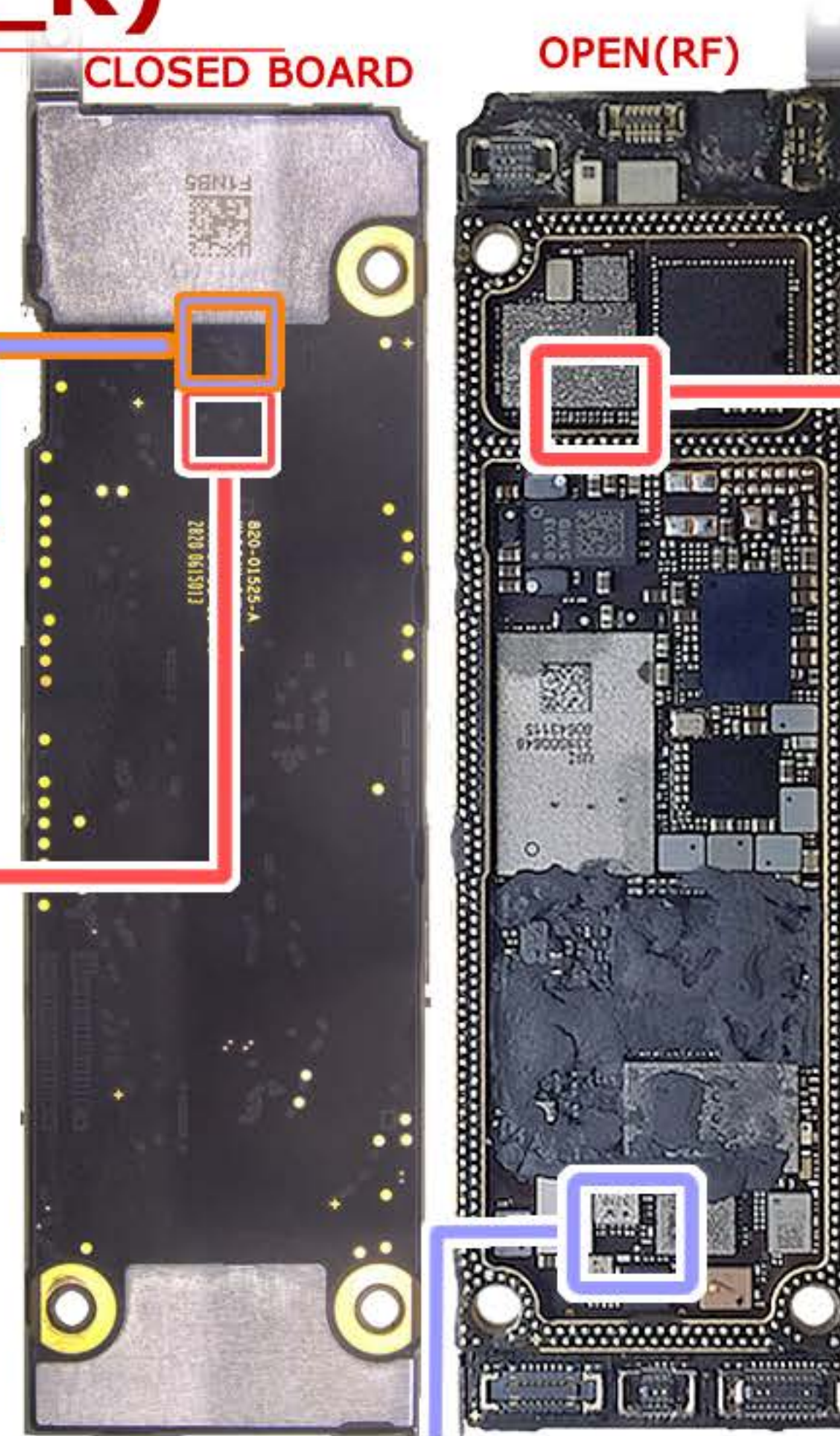
OPEN BOARD

OPEN BOARD

IPHONE 11

APN: 820-01523-A

RFFE (XCVR_K)



RFFE_LAA_UAT / RFFE_LAA_LAT

RFFE XCVR TO FE RX CLK

PA LB K	0xD	SKY78220
PA HB K	0xE	AFEM 8100_AP1
PA UHB K	2G 0xF	
U 5G L W	0x41	MDFEGFFB_126
LAT/WI-FI/5G	0x5	
DSM HB K	0xB	SKY13789
HB LNA		
DSM LB K	0xA	LMRXFRJB_K57
UAT_5G		
U 5G U W	0x6	MDFEGFFB_126
FEM		
PP2495_K - PP1V8_VIO		

RFFE XCVR TO LB TX DATA

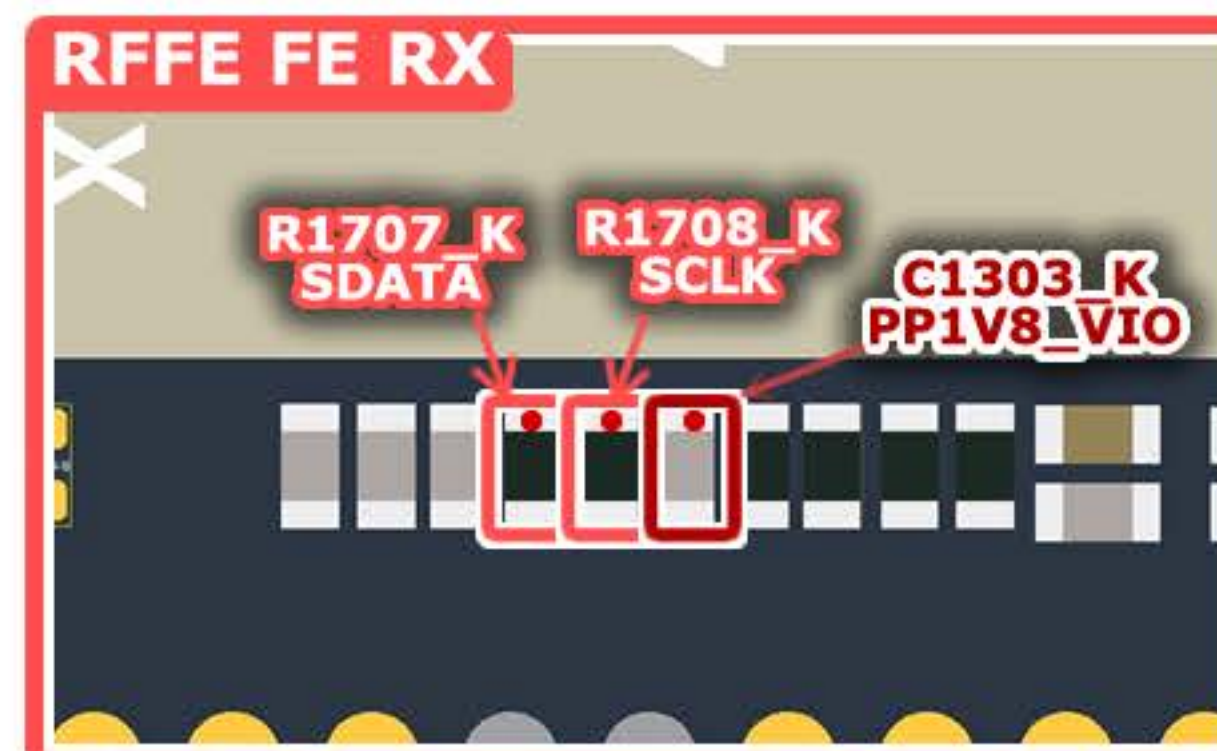
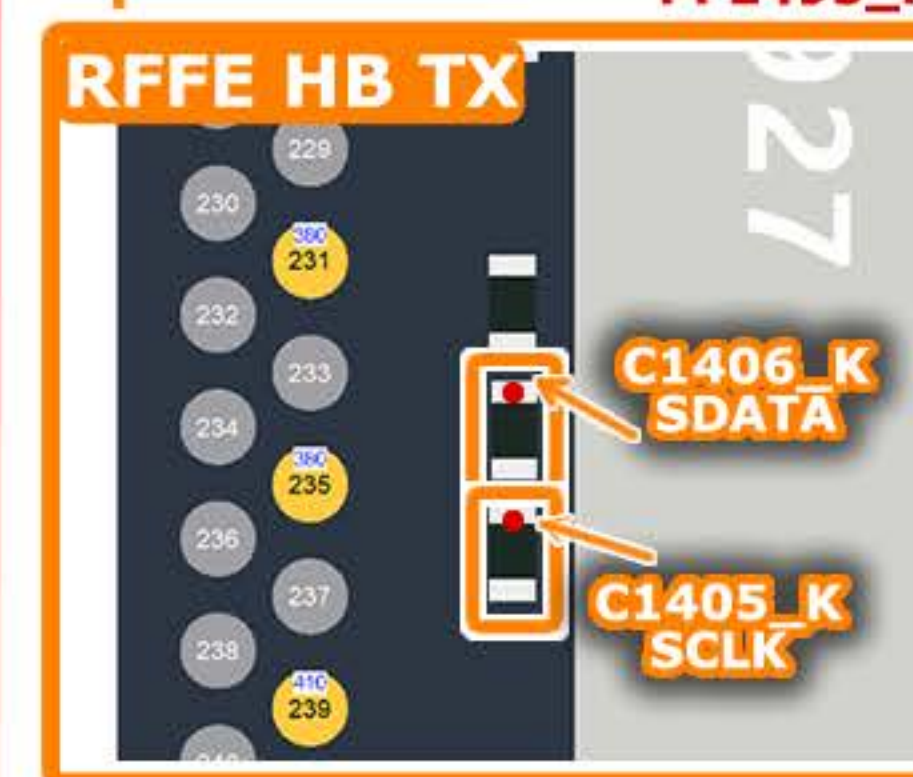
ET	0xC	QM81013
ETIC_K		
PA LB K	0x1	SKY78220
CPLR U K	0x9	SKY16710
UAT		
CPLR L K	0x8	SKY16710
LAT		
PA UHB K	0xF	UHB_MLB_2GS_PAD
PP2495_K - PP1V8_VIO		

- SCLK
- SDATA
- GND
- 1V8

Necessary test points to read RFFE

RFFE XCVR TO HB TX DATA
RFFE XCVR TO HB TX SCL

PA_UHB_K	2G 0x3	UHB_MLB_2GS_PAD
PA_HB_K	0x2	ATEM_8100_AP1
ETIC_K	0xC	QM81013
PP2495_K - PP1V8_VIO		

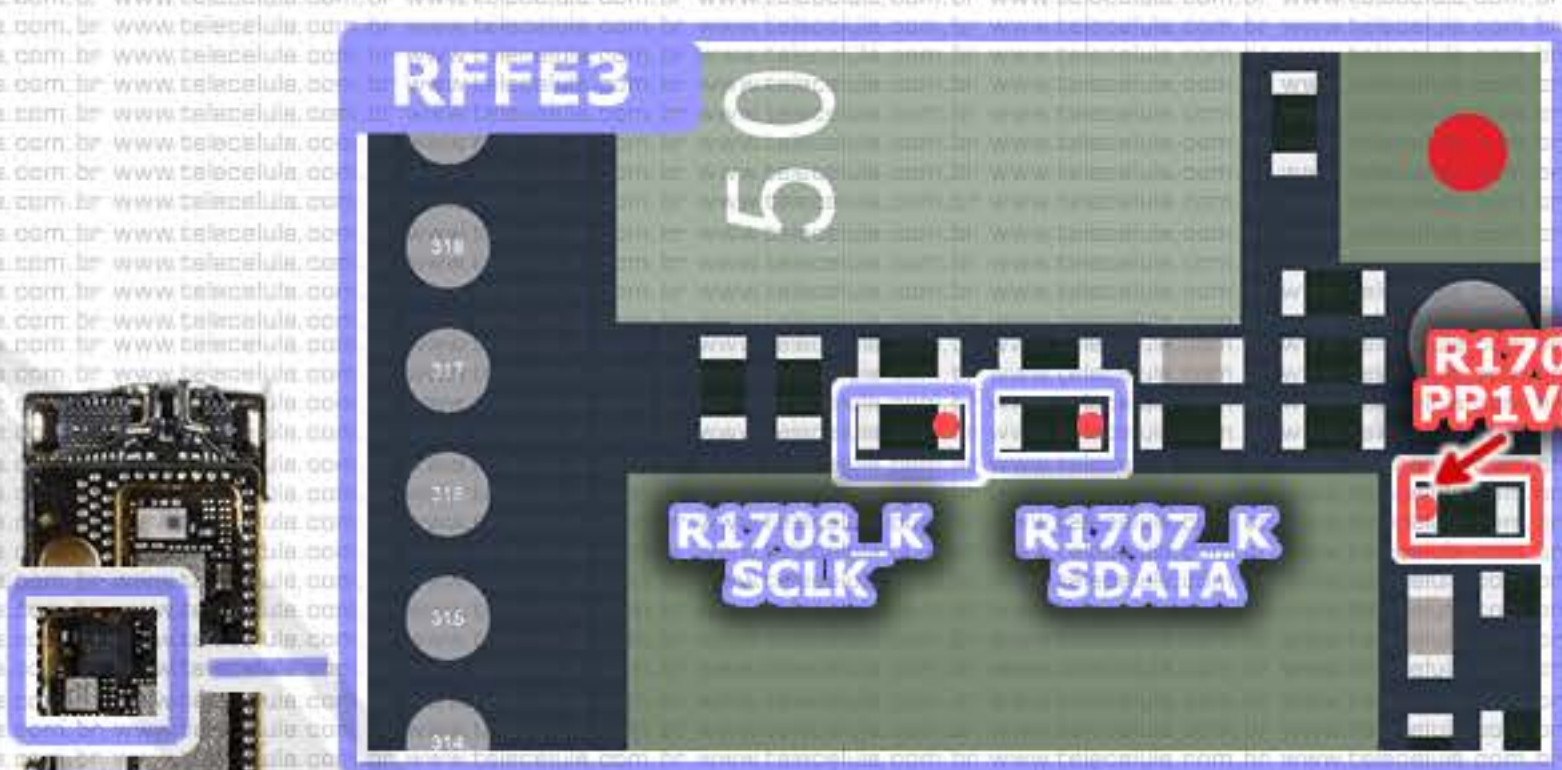
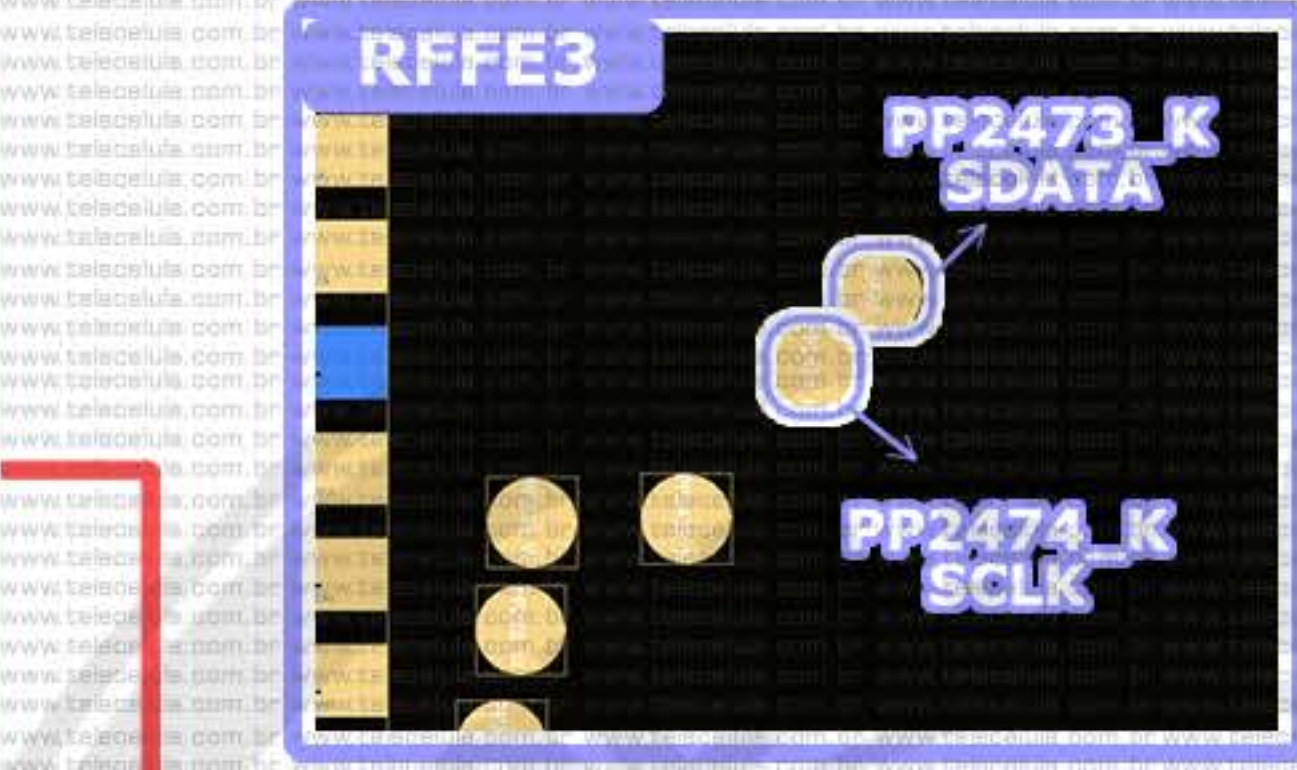


PP2495_K

[illegible]

IPHONE XS MAX

APN: 820-001063-A



CLOSED BOARD



BOARD OPEN

RFFE 2

RFFE 3

XCVR TO FE RX RFFE 3

SKY13775

CPL_K

0x6

QM81019

U_ET2_K

0xC

AFEM 8092_AP1

PA_HB_K

2G 0x3

SKY78170

PA_LB_L

0x2

HRPDAF092

PA_UHB_K

0x5

PP1V8_IO
PP24J2_K / PP24E8_K

SLCK
SDATA
GND
1V8

Necessary test points to read RFFE

SKY78170

PA_LB_L

0xD

AFEM 8092_AP1

PA_HB_K

0xE

PA_UHB_K

0xC

HRPDAF092

PP1V8_IO
PP24J2_K / PP24E8_K

SKY13768

DSM_HB_K

LNA

0xA

SKY13765

DSM_LB_K

0x9

HFQRXRCJB_500

DSM44U_K

MIMO RDM

0x4

SKY85759

U_5G U_W

UAT

0x6

SKY85759

U_5G L_W

LAT MURATA

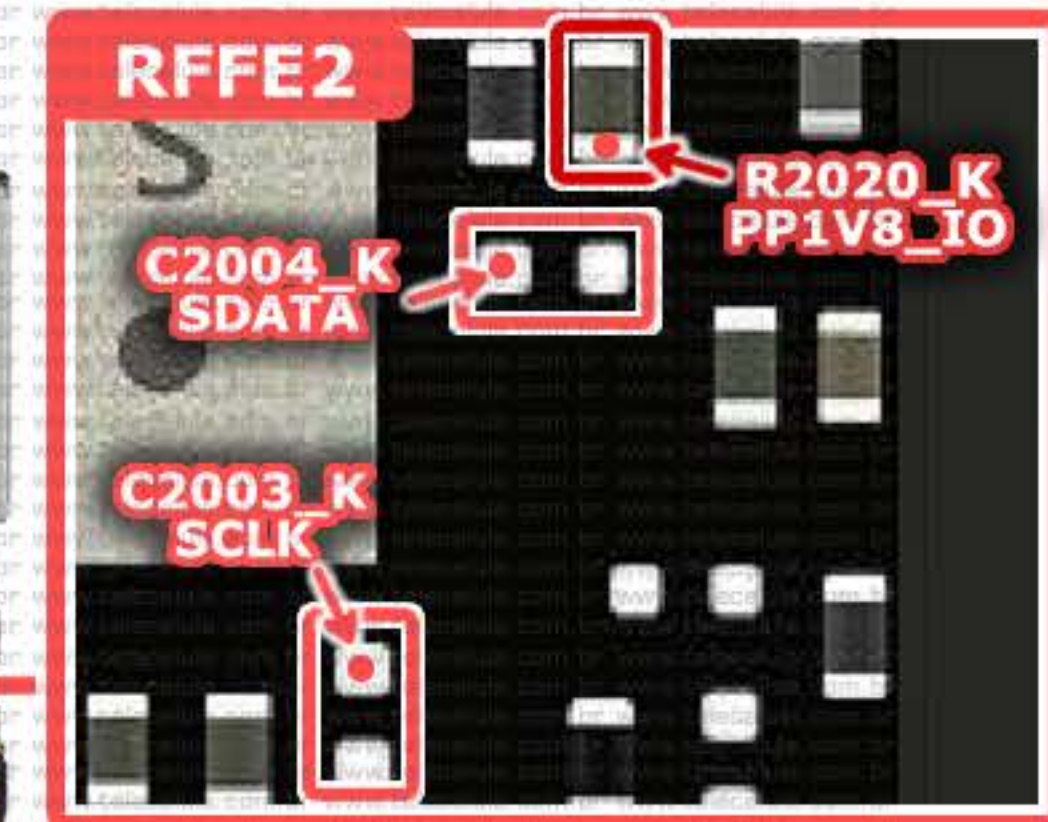
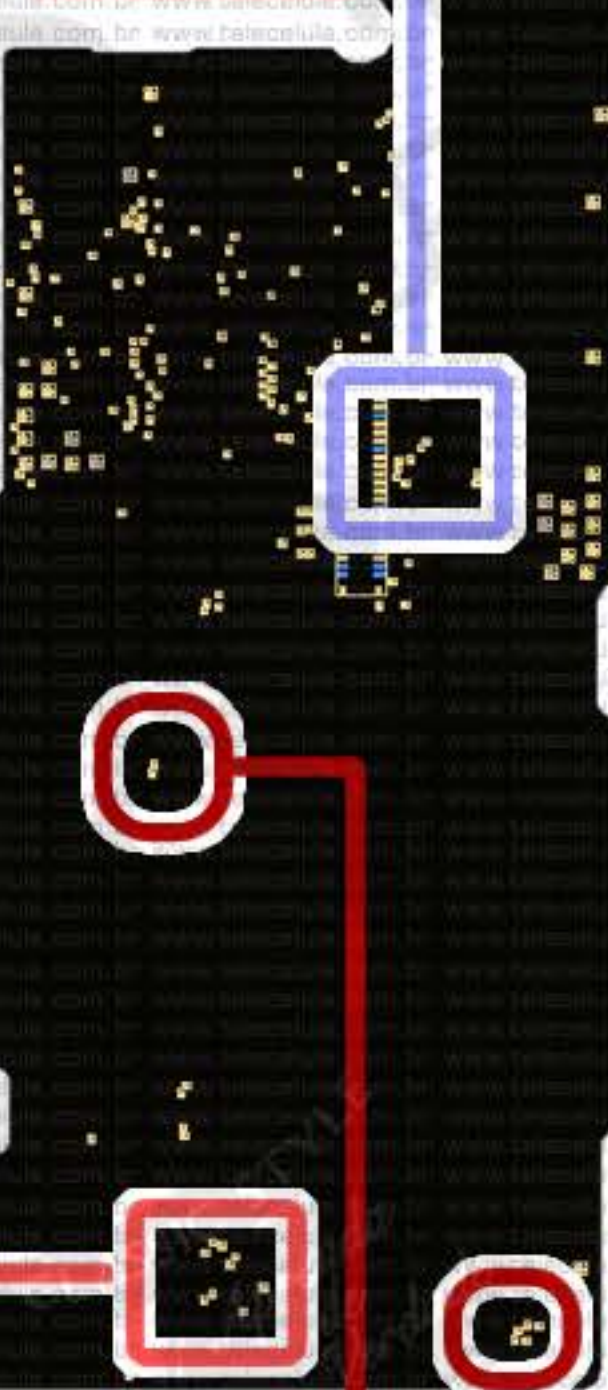
0x41
0x5 MURATA

HFQRXRCJB_500

DSM44L_K

RPM MIMO

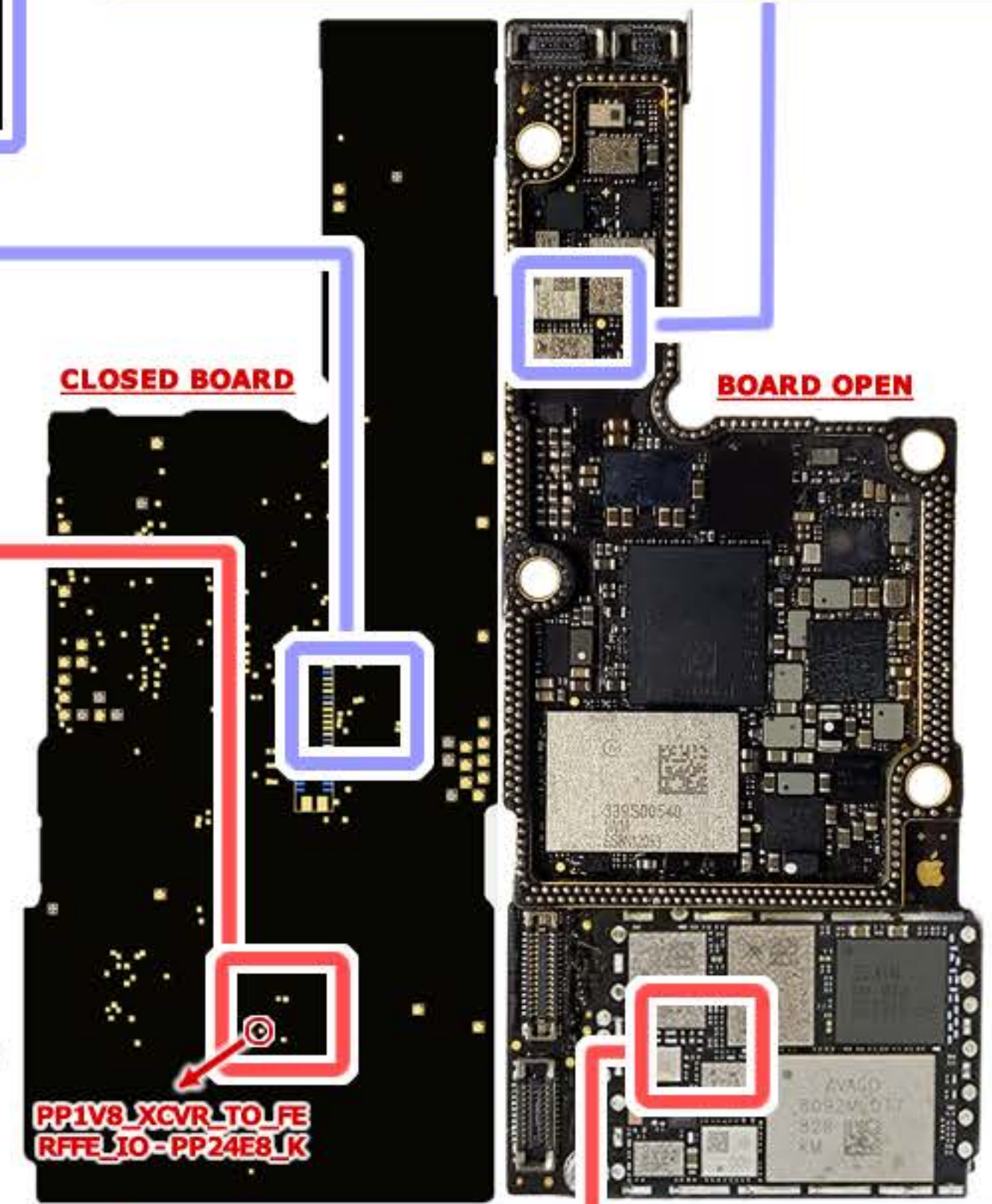
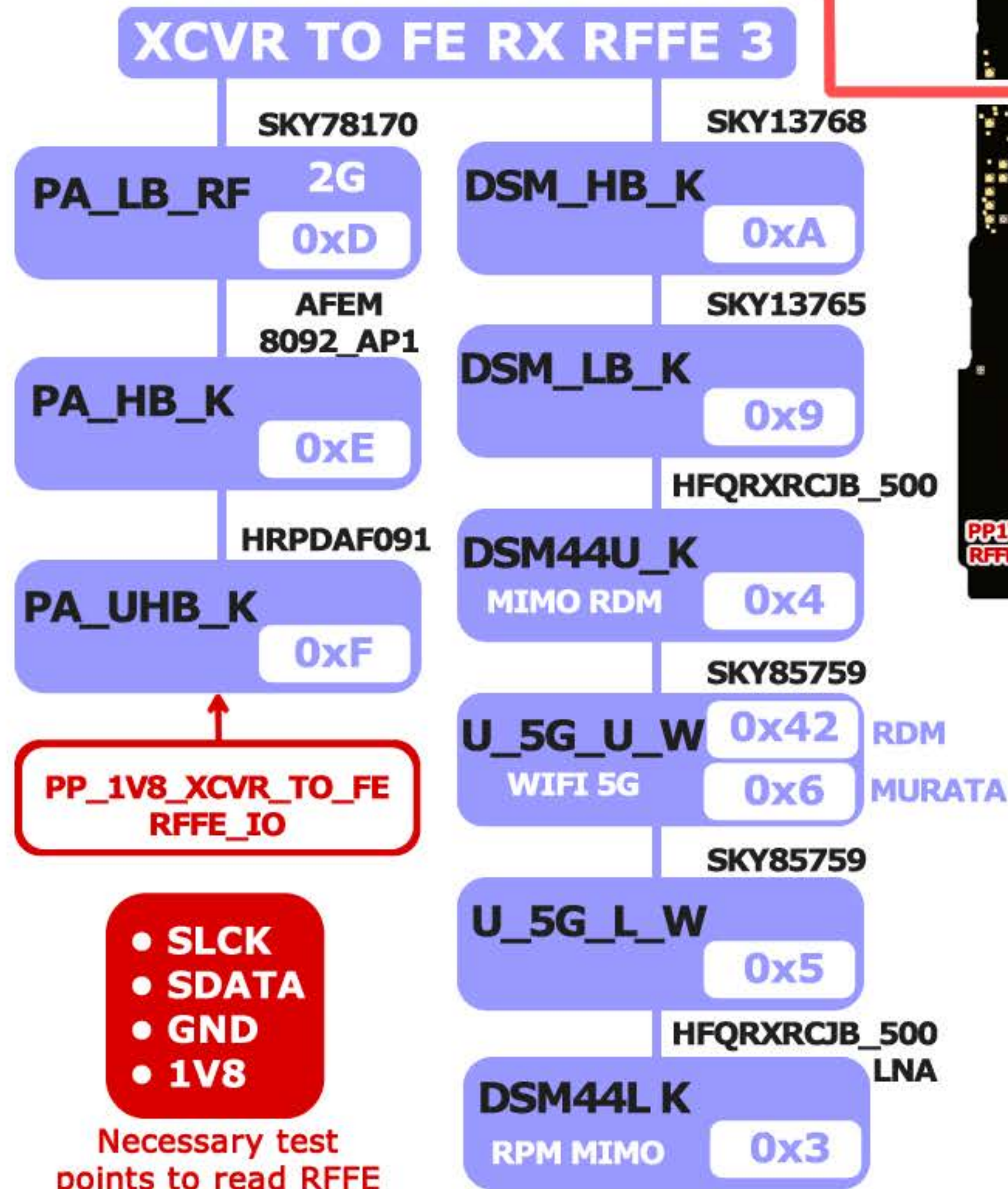
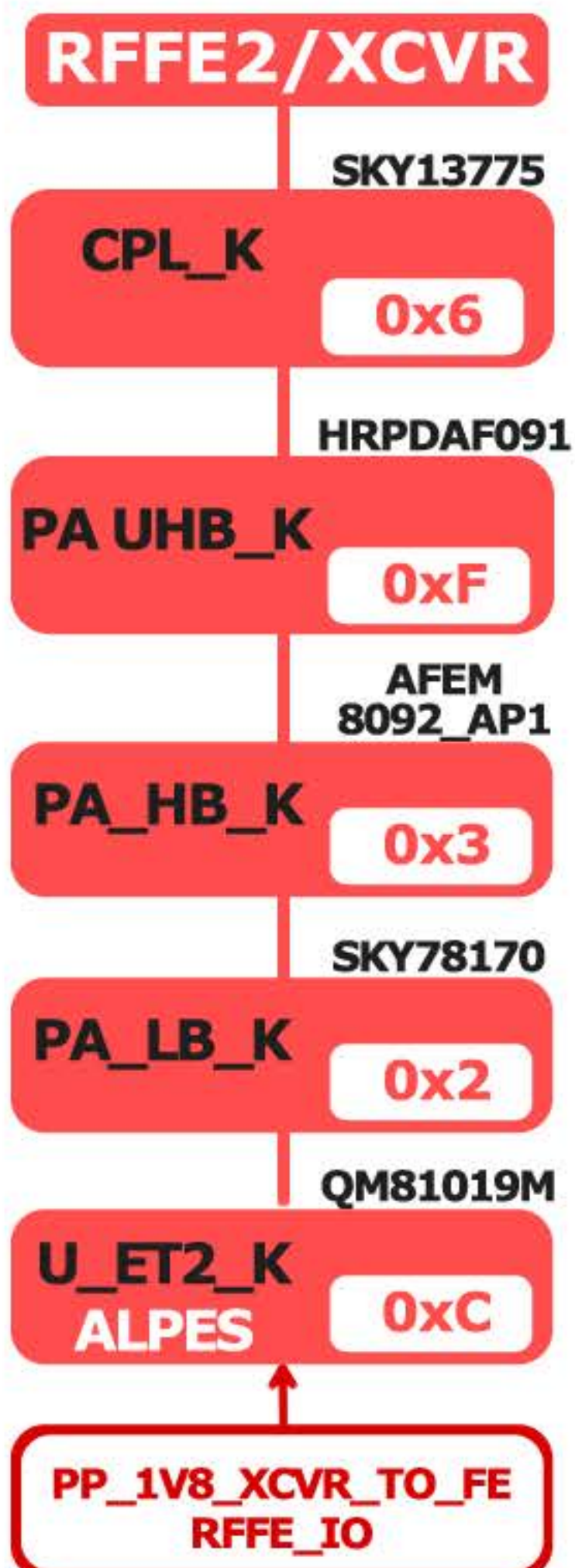
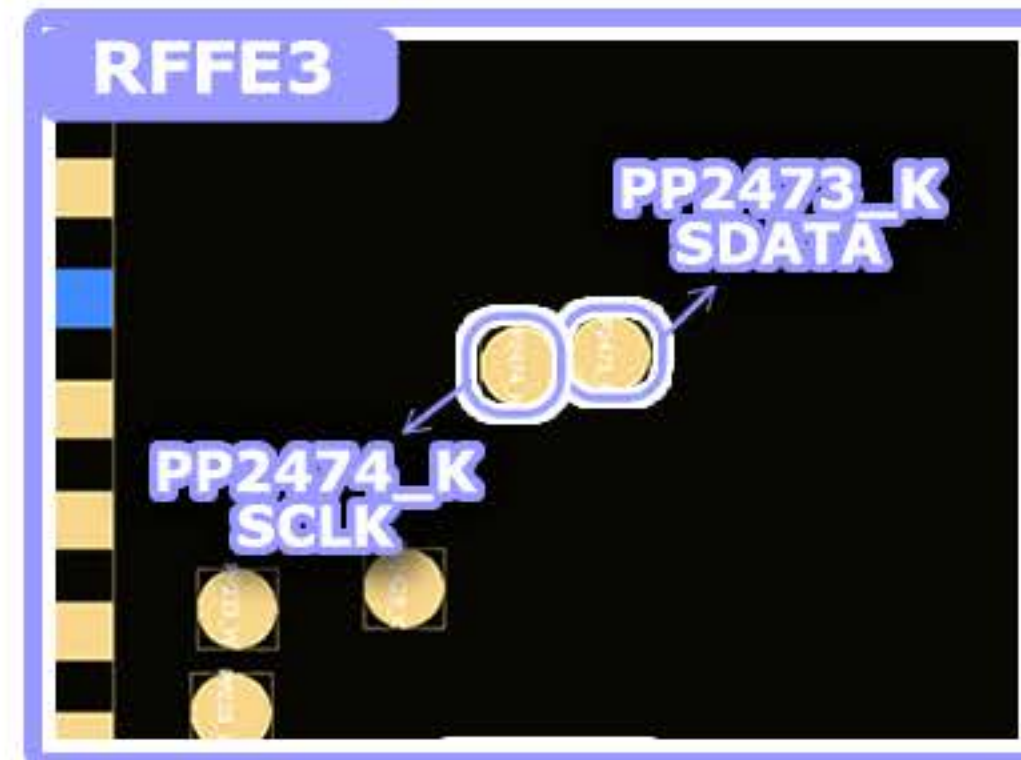
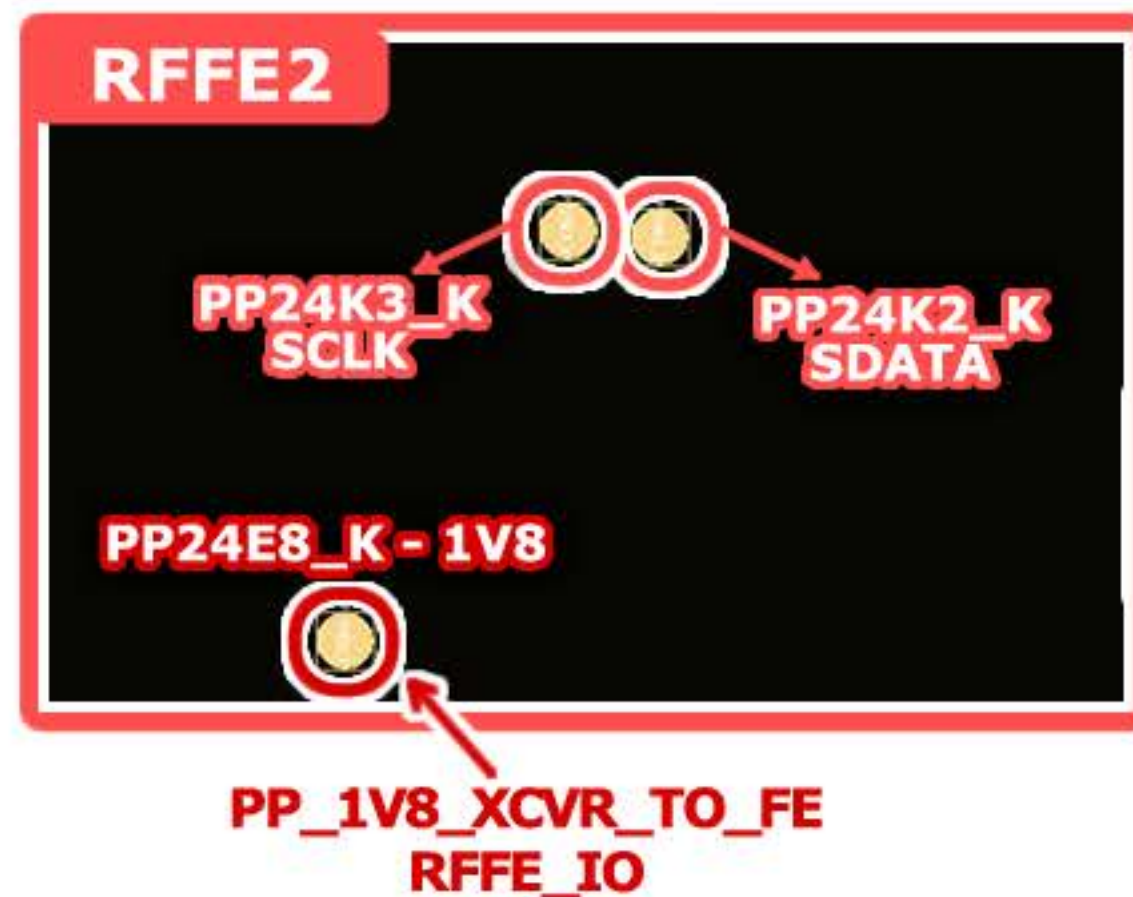
0x3



RFFE -XCVR

IPHONE XS

APN: 820-0997-A



- SCLK
- SDATA
- GND
- 1V8

Necessary test points to read RFFE

RFFE - XCVR (U_XCVR_K)

IPHONE XR

APN: 820-01209-A



RFFE2

RFFE3

U_XCVR_K (TX)

XCVR_TO_FE_RX_RFFE

QM76018

SKY13768

PA_HB_K

DSM_HB_K

0x3

0xA

HRPDAF092

SKY13765

PA_UHB_K

DSM_LB_K

0x5

0x9

SKY78170

HRPDAF092

PA_LB_K

PA_UHB_K

2G

0x2

0xC

QM81019

QM76018

U_ET2_K

PA_HB_K

0xC

0xE

HFQFEGVGB

SKY78170

CPL_K

PA_LB_K

0x6

2G

0xD

PP_1V8_VIO_TX

PP1V8_LBDSM_RFFE_IO_FILT

RFFE2

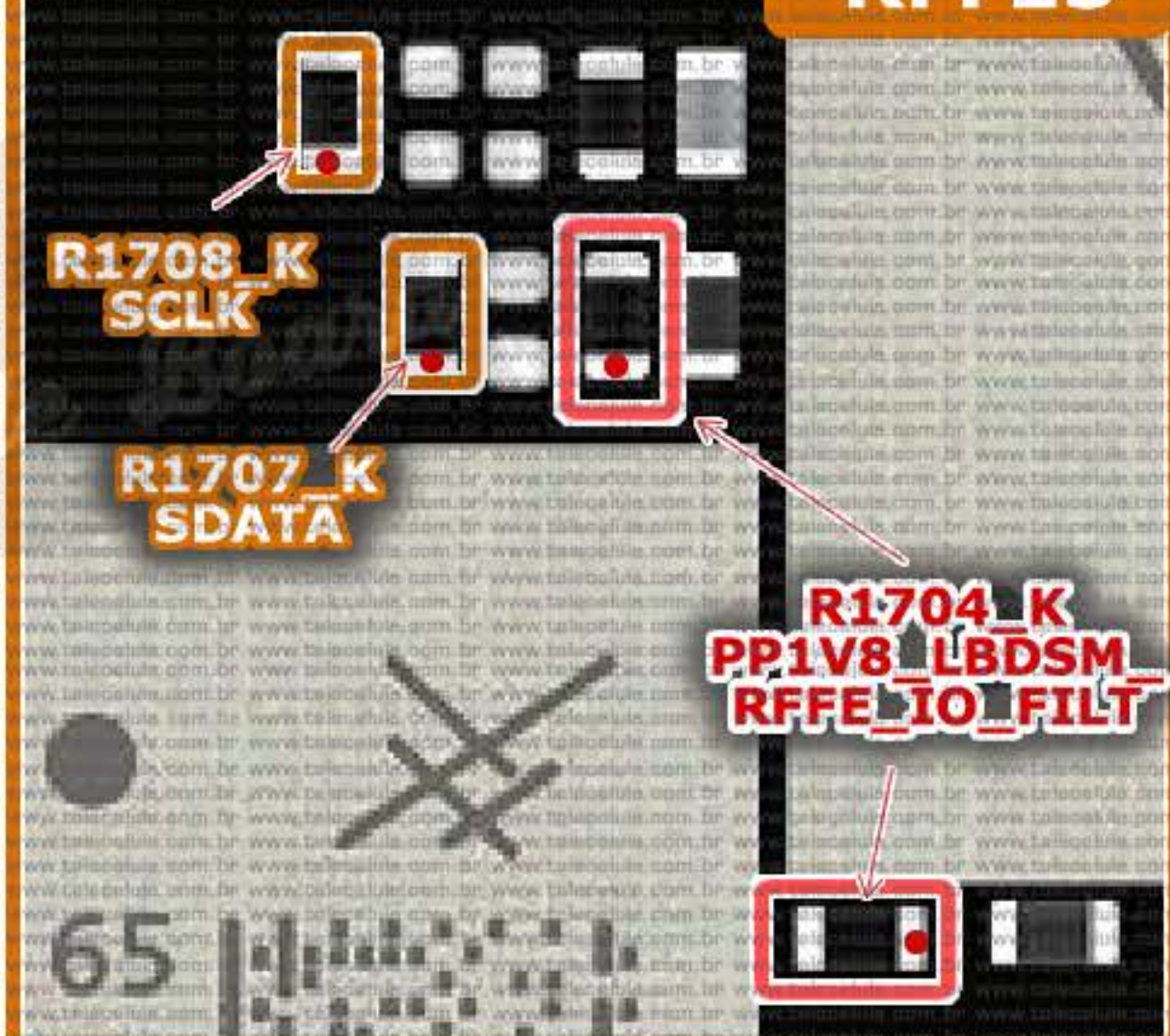
RFFE3

Necessary test
points to read RFFE

- SLCK
- SDATA
- GND
- 1V8*

PP1V8_LBDSM_RFFE_IO_FILT

PP_1V8_VIO_TX



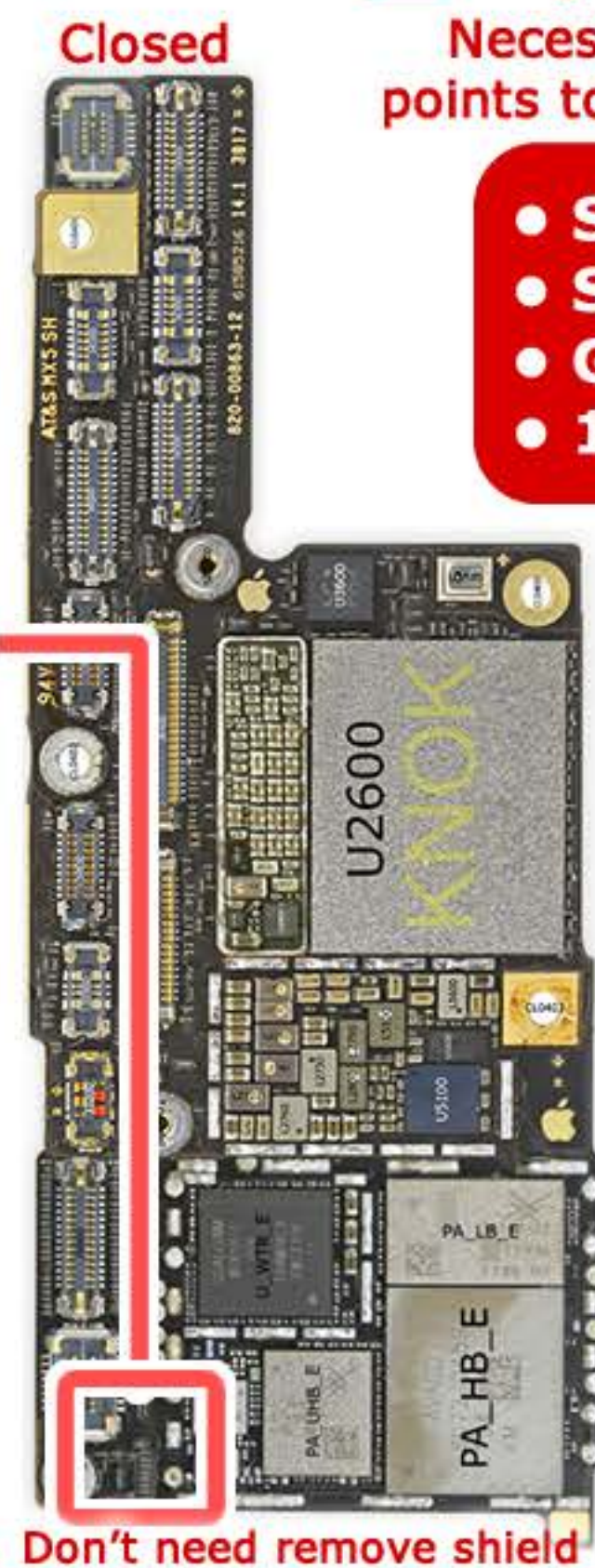
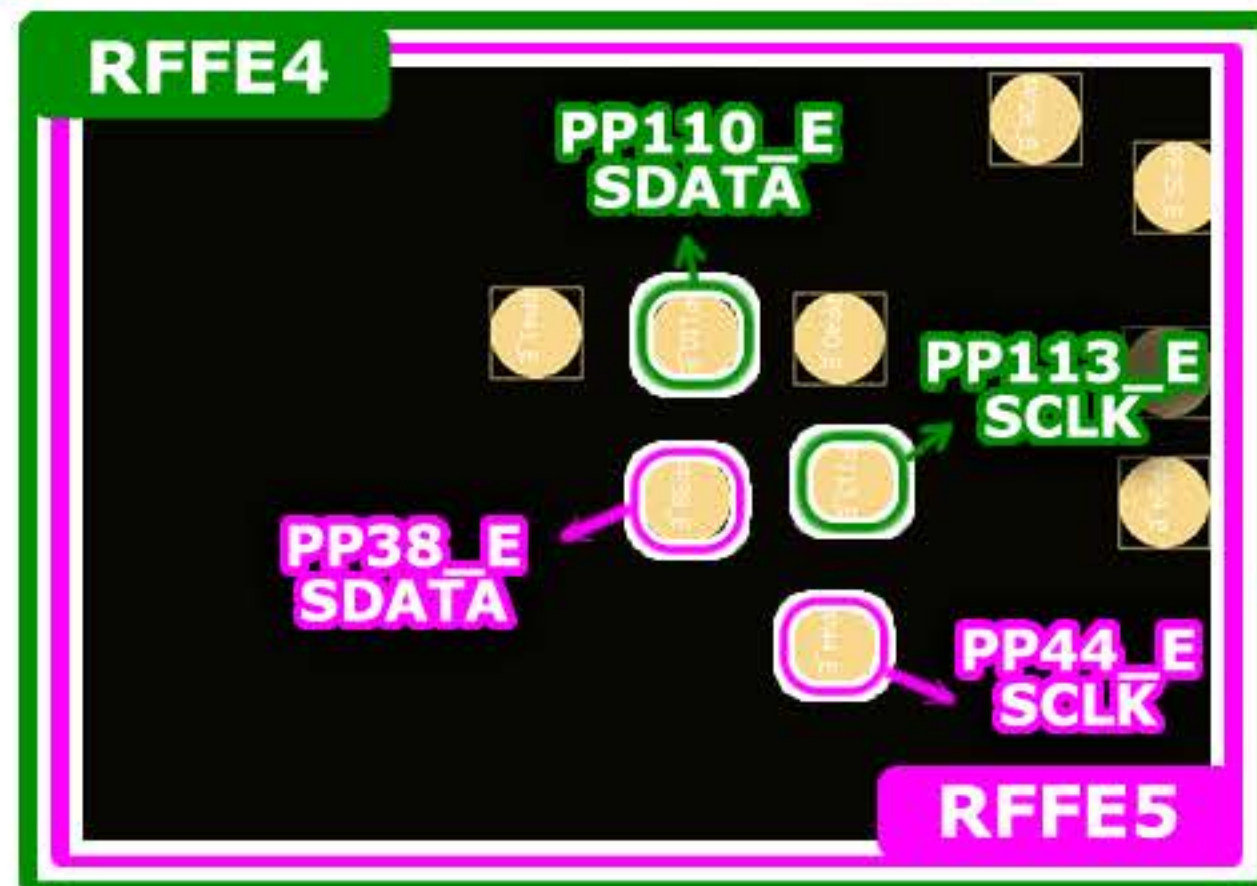
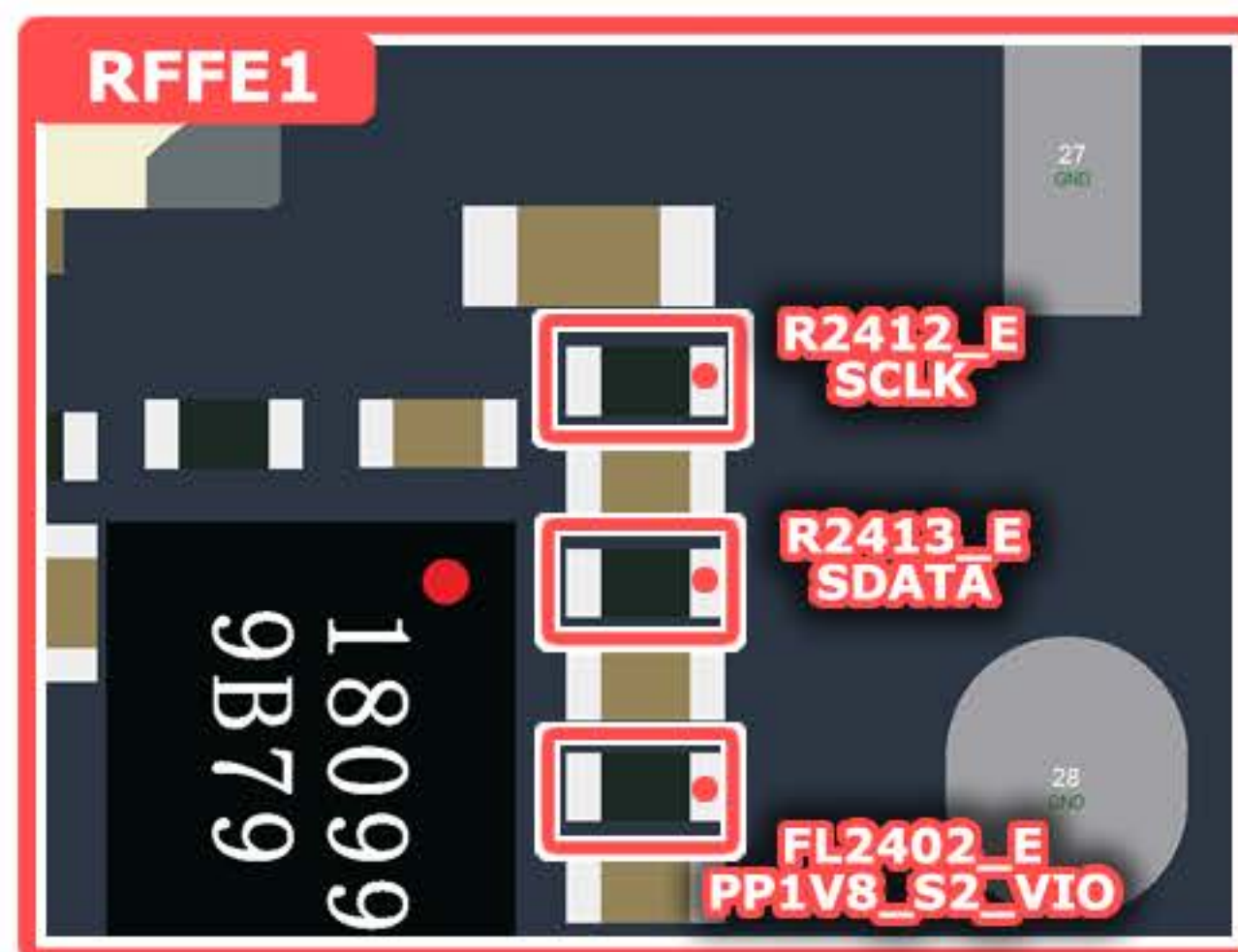
IPHONE X QUALCOMM

APN: 820-0864-A

RFFE - (XCVR0_K) - MDM (XCVR1_K) - MDM

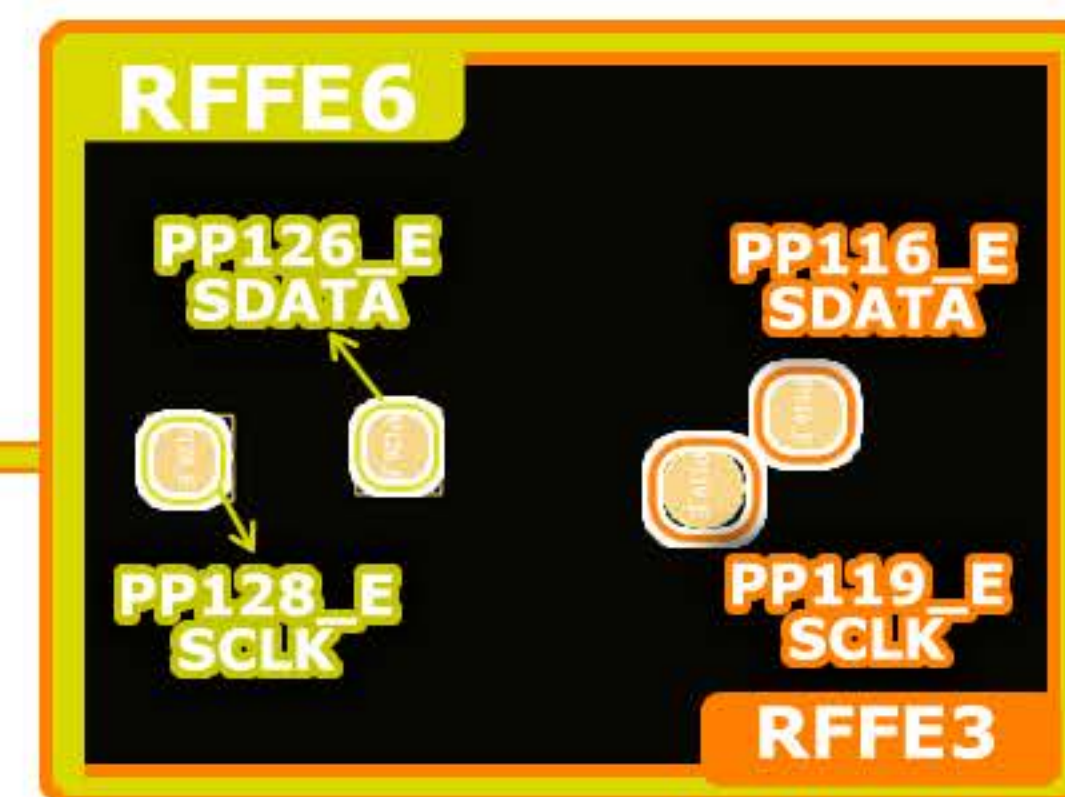
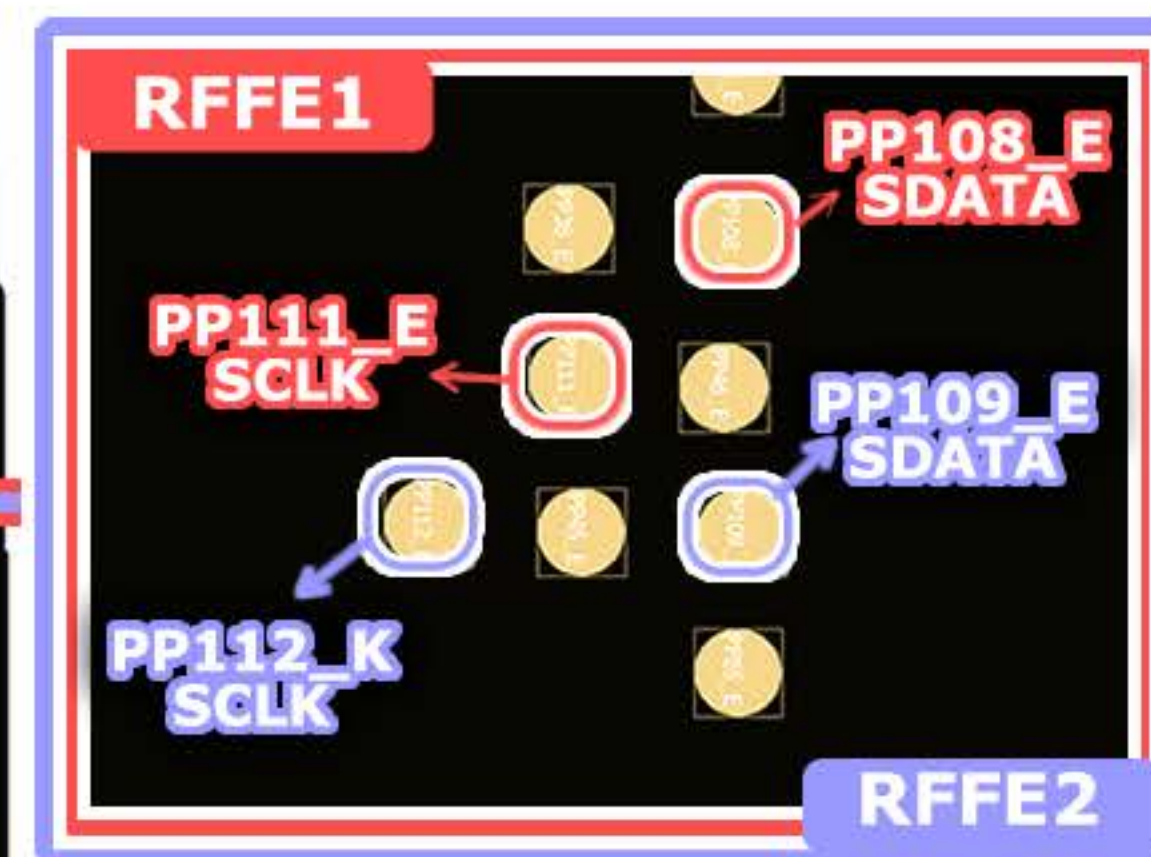
RFFE MAP

RFFE1: WTR, LATGPO LATUNE
RFFE2: HB DSM, LB DSM
RFFE3: UHB, HB, LB PAD LNA
RFFE4: UATGPO, UATUNE
RFFE5: CPL
RFFE6: QET, 2G PA/UHB, HB, LA PAD



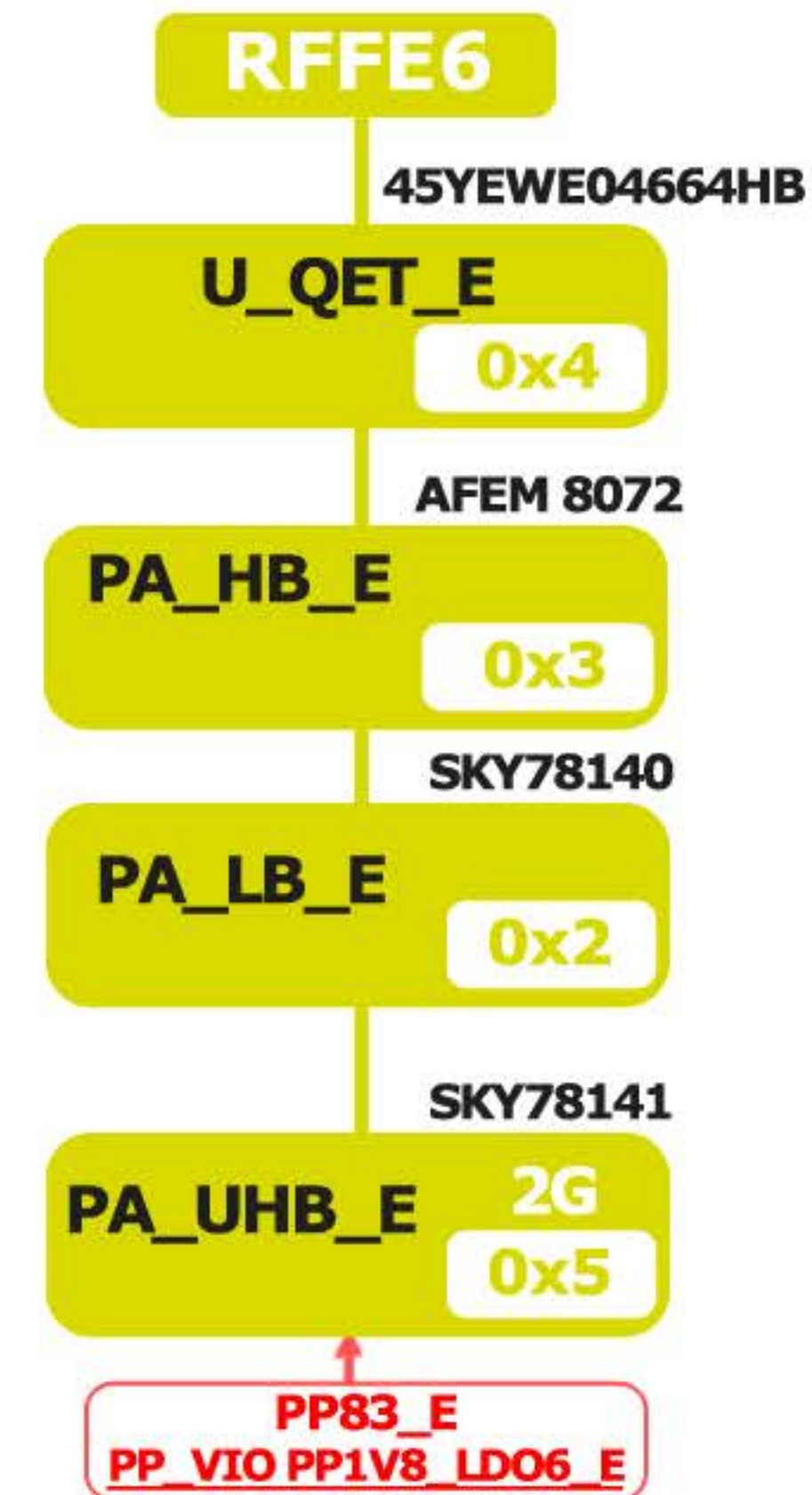
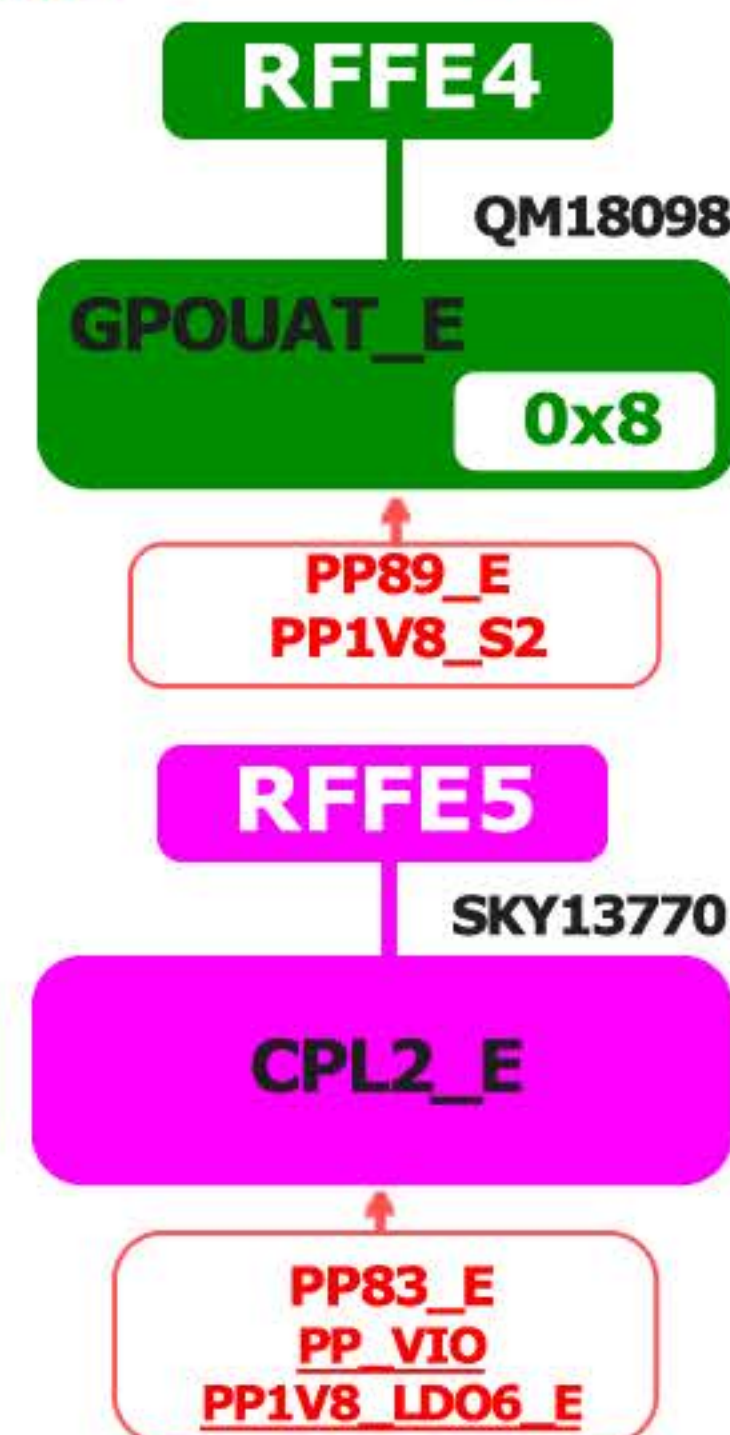
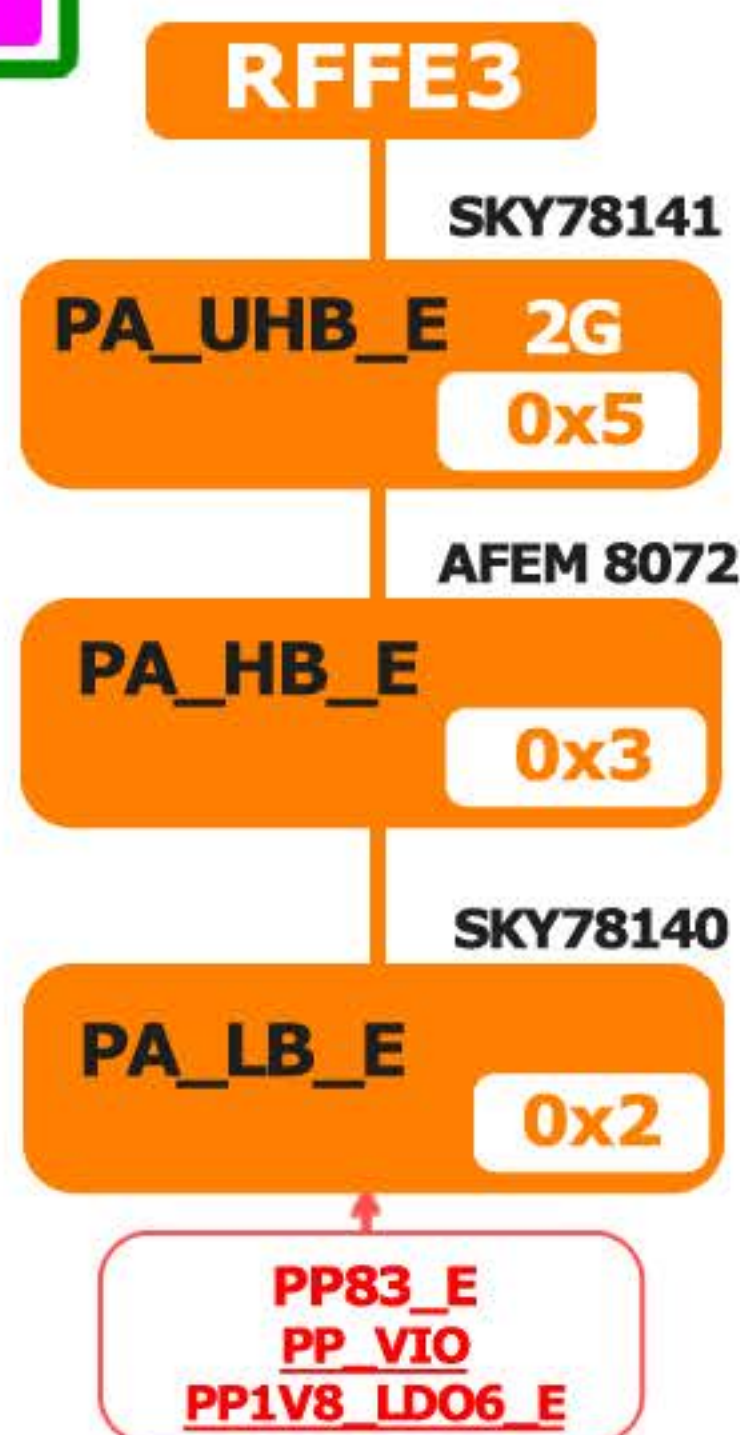
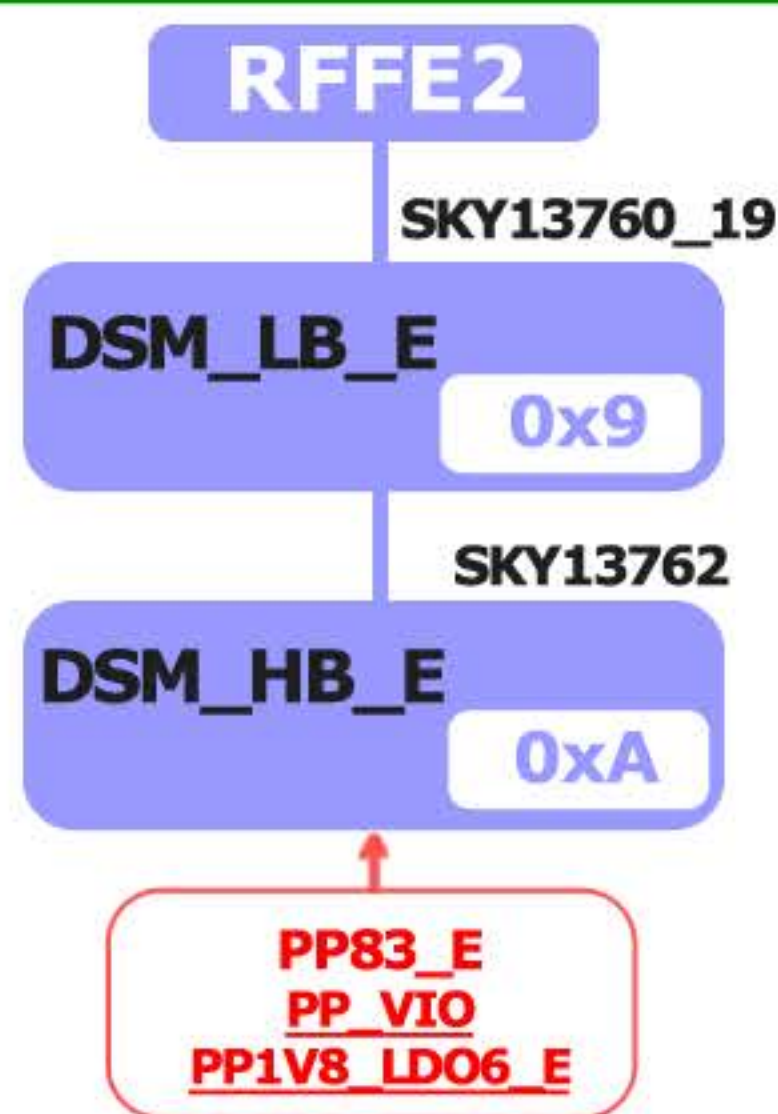
- SCLK
- SDATA
- GND
- 1V8*

Closed



PP83_E
LDO6 - 1V8
VIO

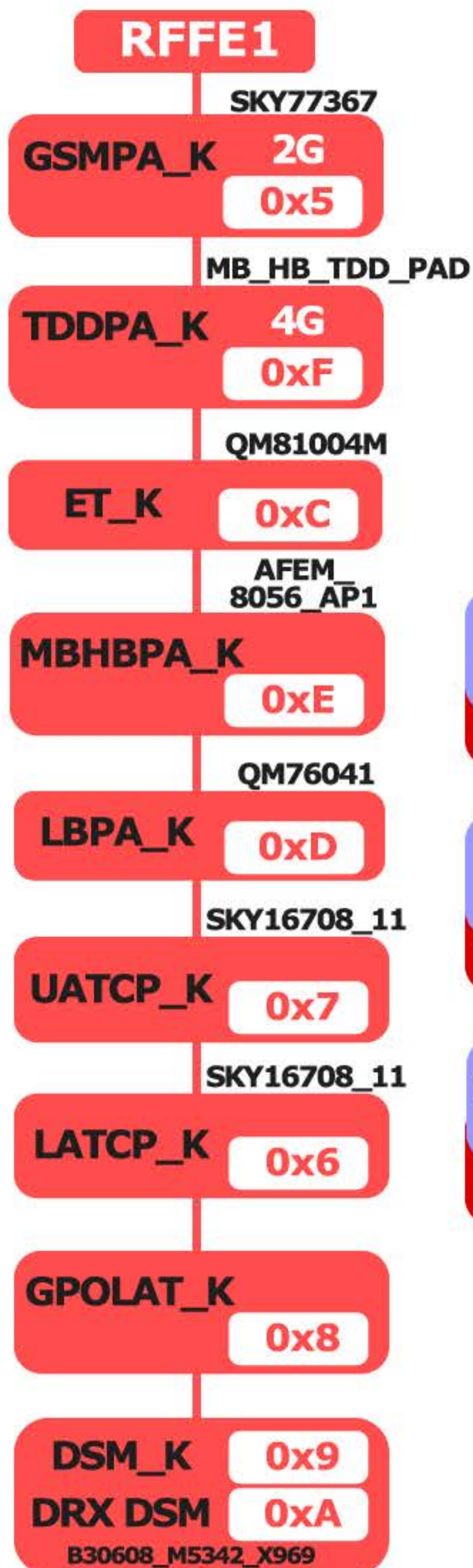
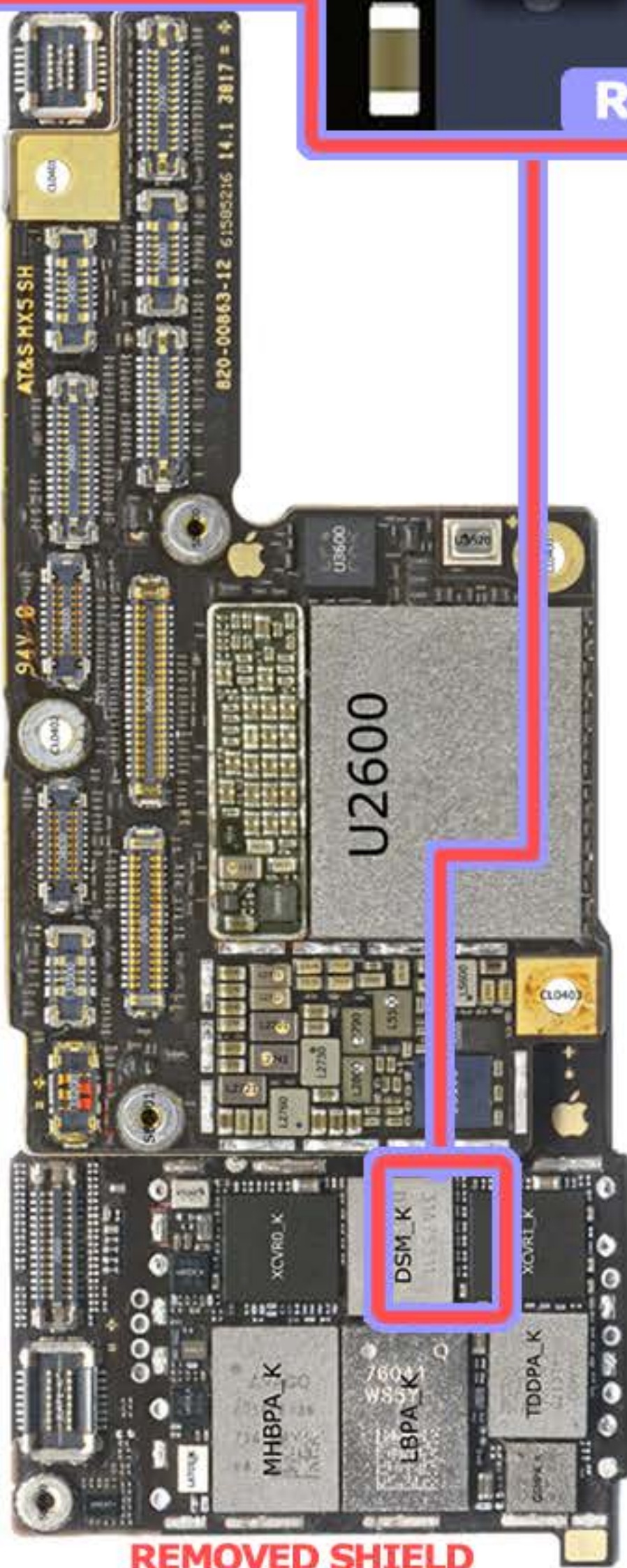
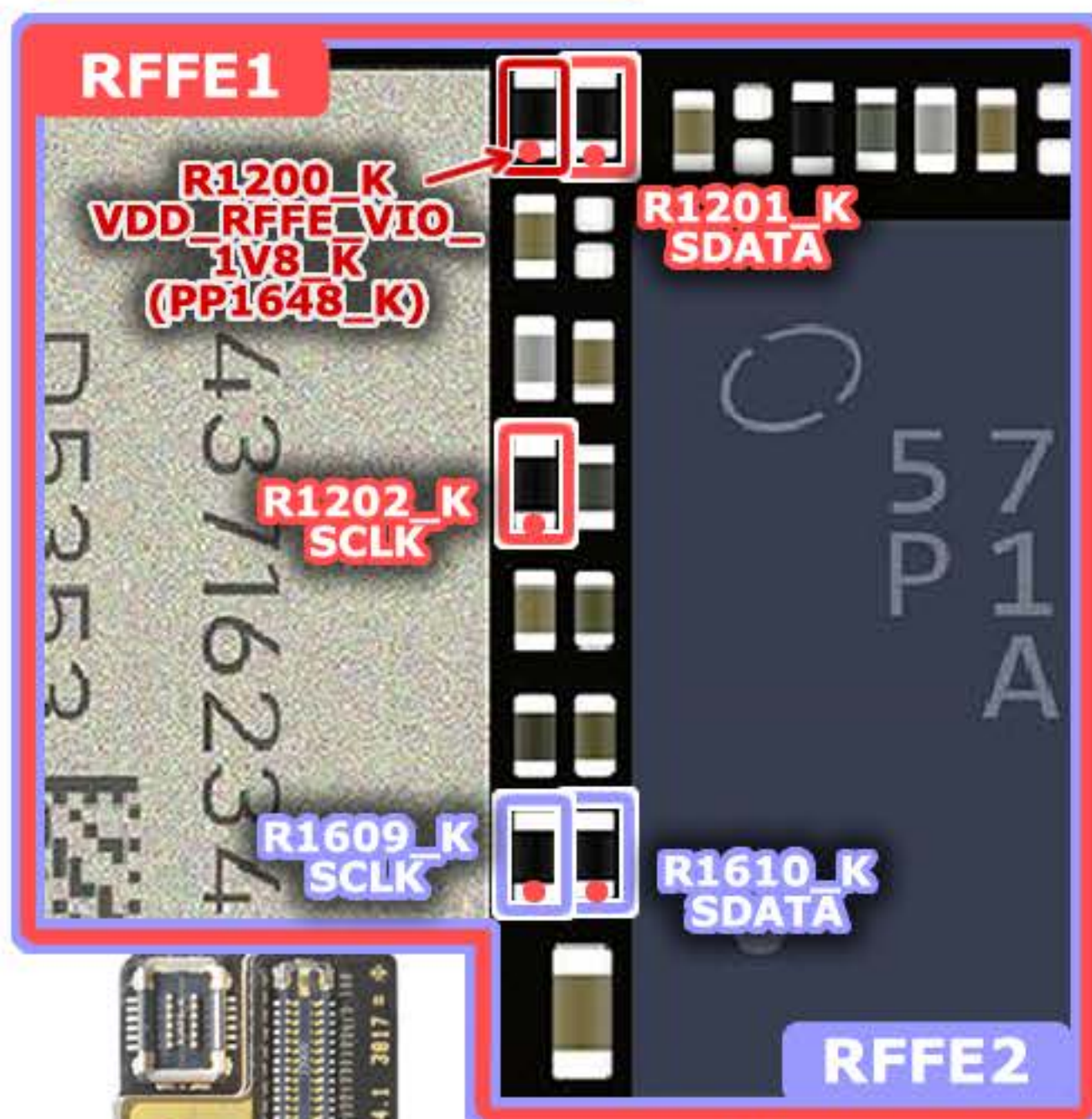
PP89_E
PP1V8_S2
VIO



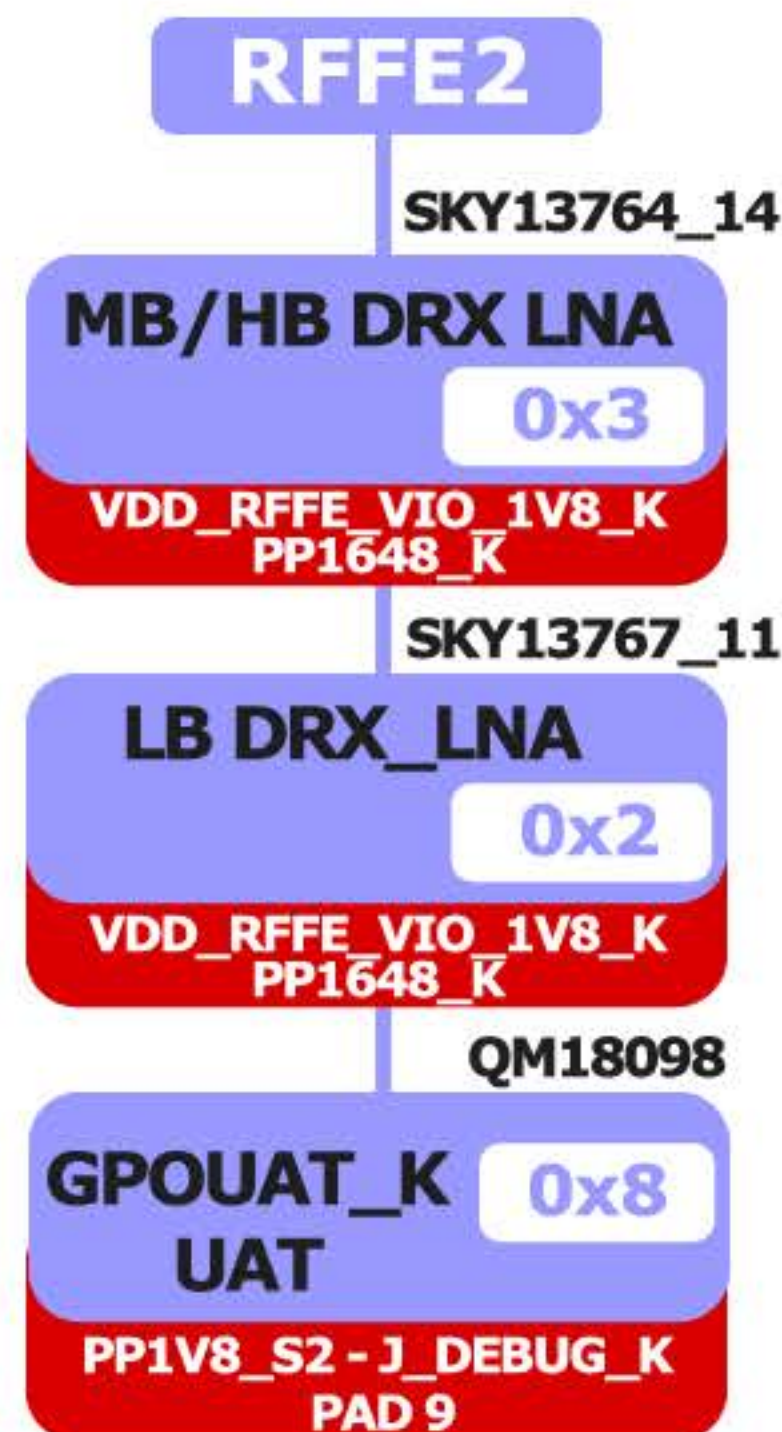
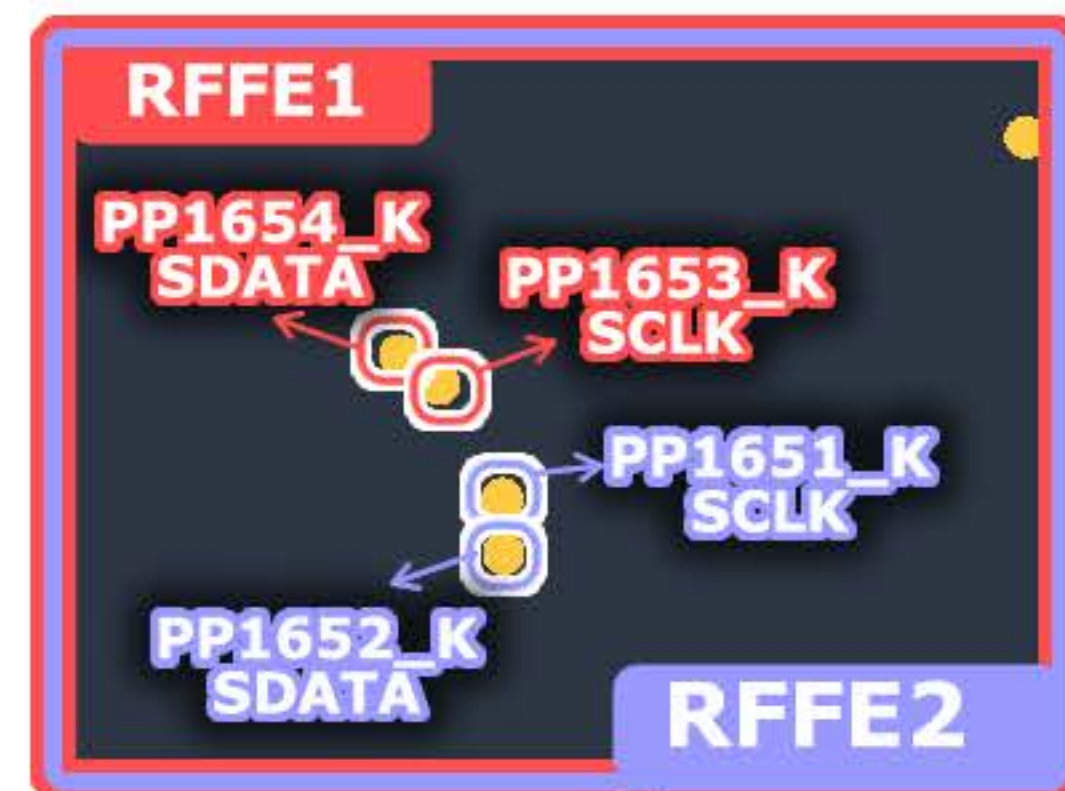
IPHONE X INTEL

APN: 820-0863-12

RFFE - (XCVR0_K) (XCVR1_K)

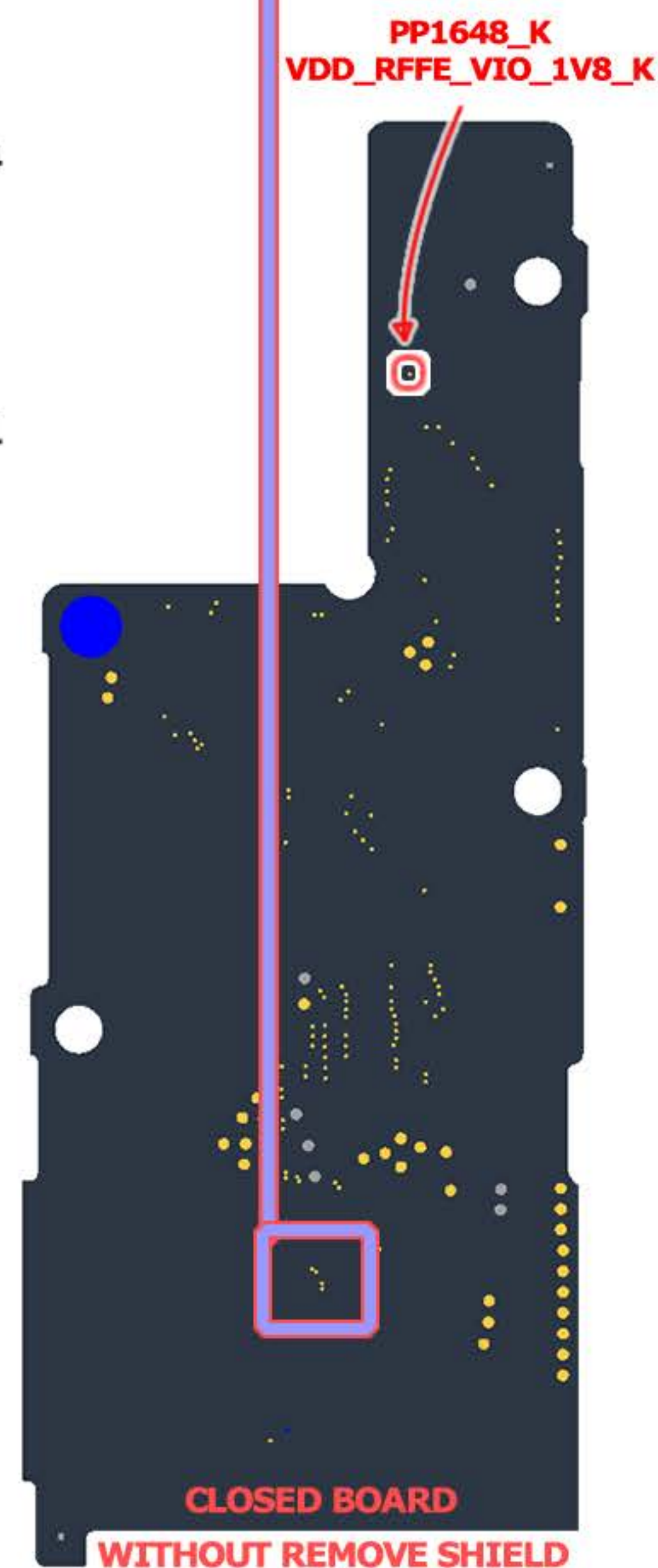


VDD_RFFE_VIO_1V8_K - PP1648_K



Necessary test points to read RFFE

- SCLK
- SDATA
- GND
- 1V8*

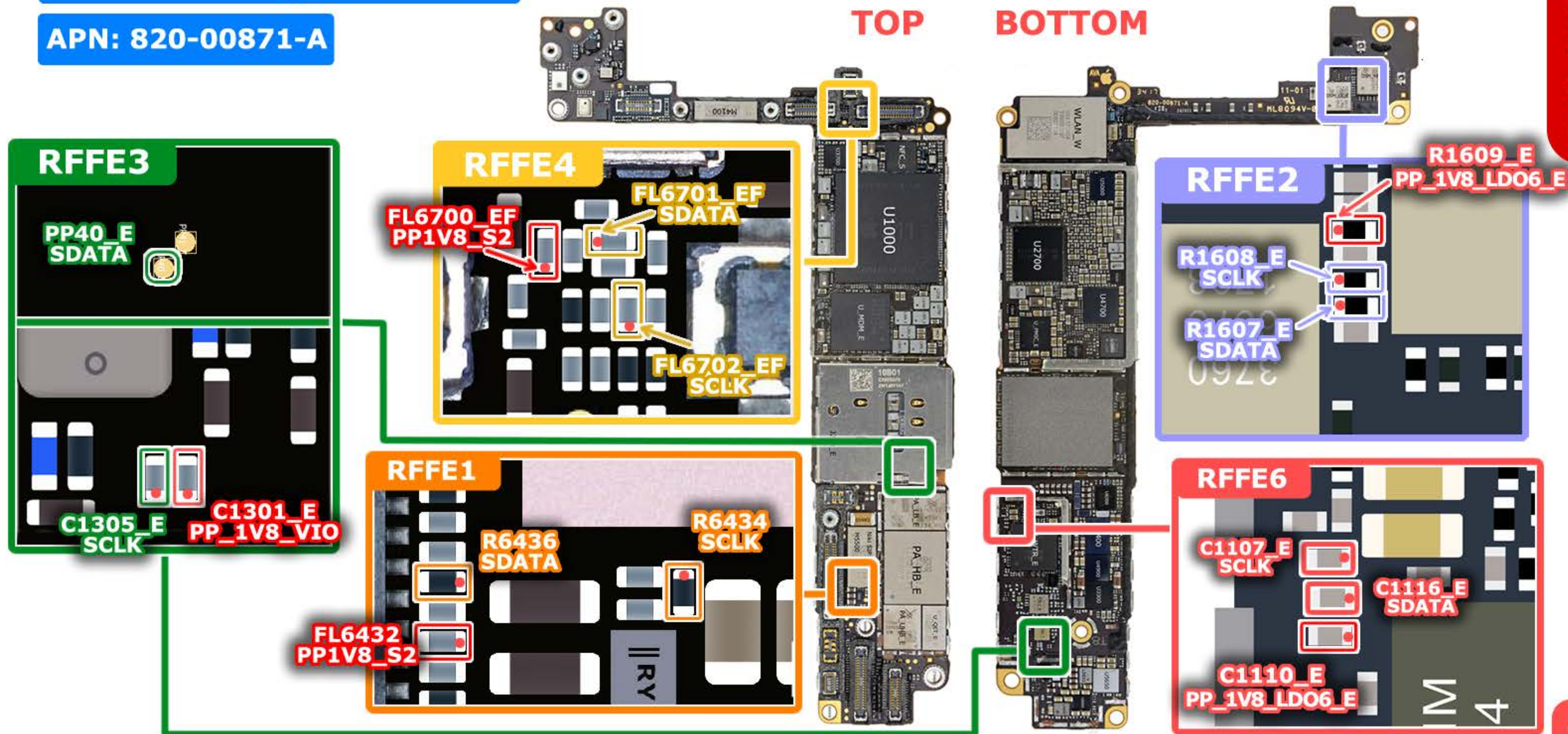


RFFE - BB (MDM)

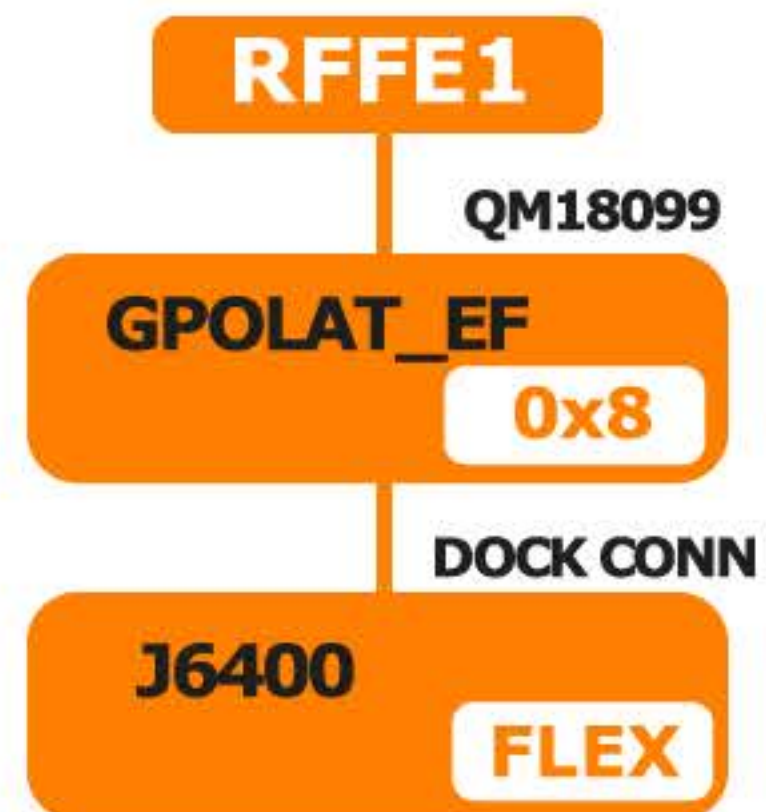
Necessary test points to read RFFE

IPHONE 8 QUALCOMM

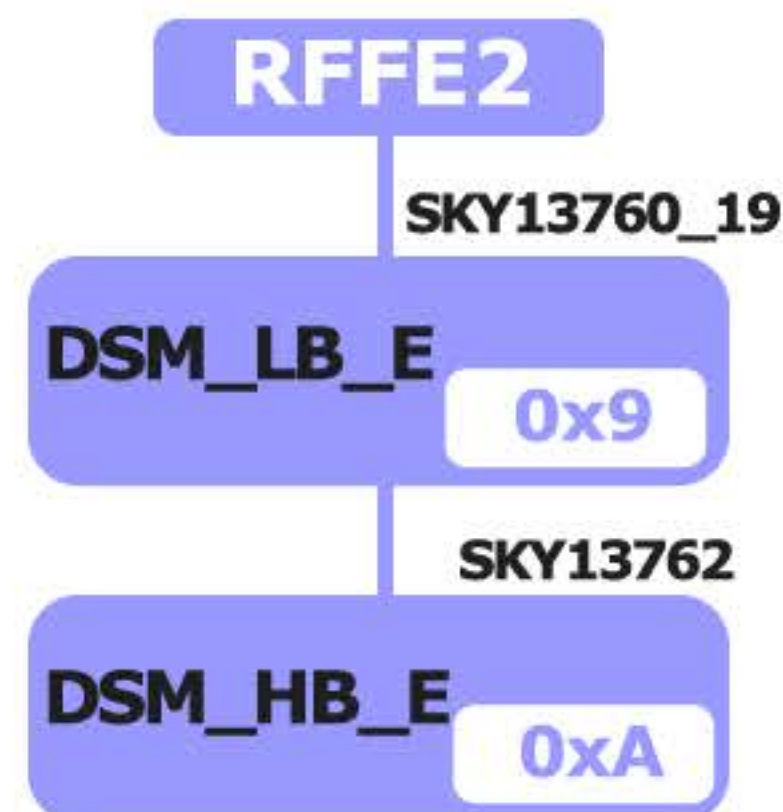
APN: 820-00871-A



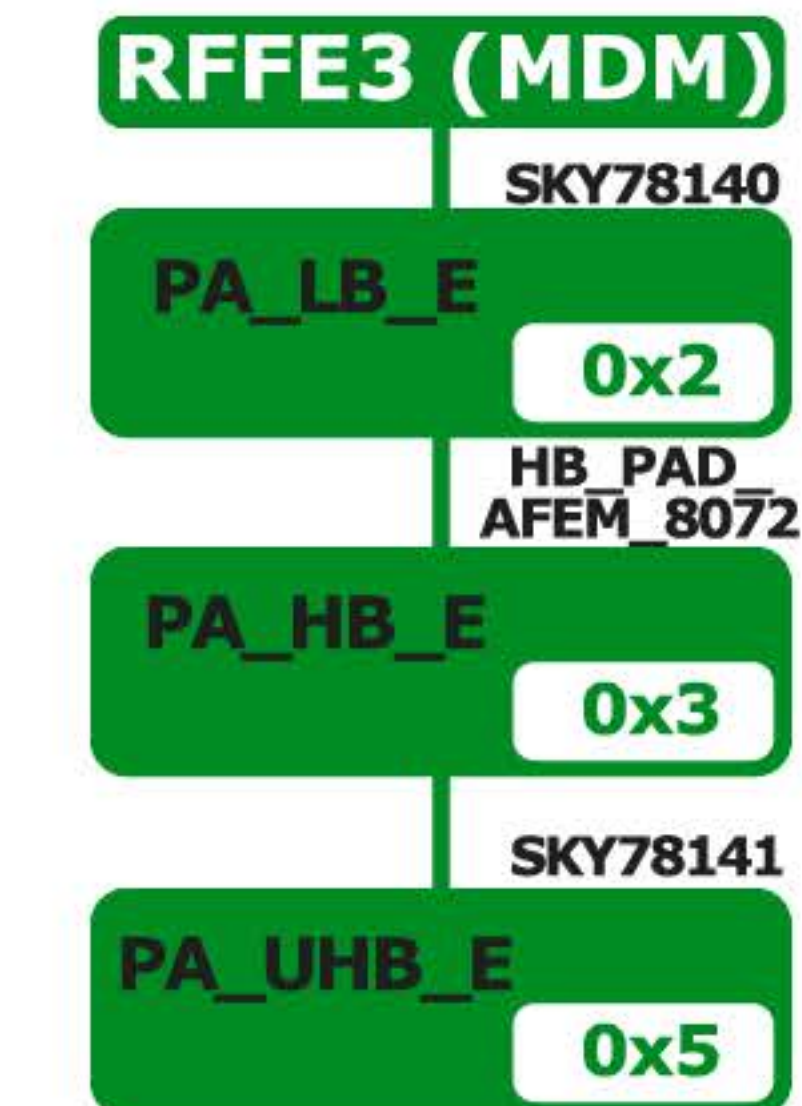
- SLCK
- SDATA
- GND
- 1V8*



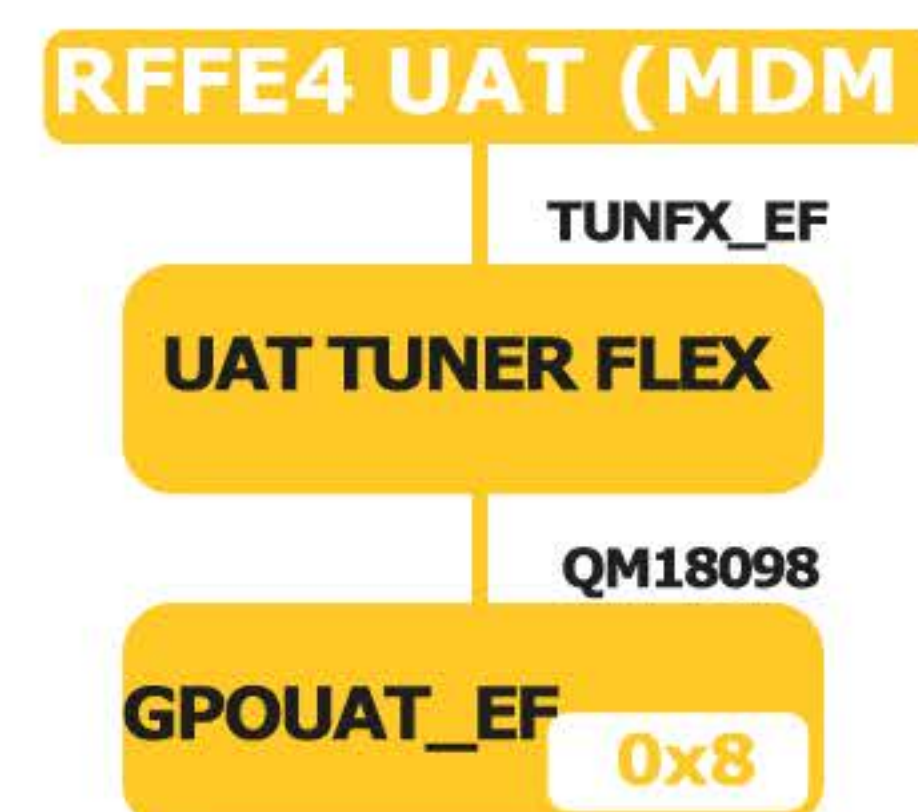
FL6432
FL6902 EF
PP1V8_S2



R1609_E
PP_1V8_LDO6_E



R1301_E
PP_1V8_VIO = PP_1V8_LDO6_E



FL6700_EF
PP1V8_S2



C1110_E
PP_1V8_LDO6_E

IPHONE 8 INTEL

APN: 820-00872-A

RFFE - (XCVR0_K) (XCVR1_K)

RFFE1

SKY77367

GSM PA_K 2G PA
0x5

MB_HB_TDD
S_PAD

TDD PA_K 4G
0xF

QM 81004M

ET_K 0xC

AFEM_8056
AP1

MBHBPA_K
0xE

QM 76041

LBPA_K 0xD

SKY16708_11

UATCP_K 0x7

SKY16708_11

LATCP_K 0x6

DRX_DSM

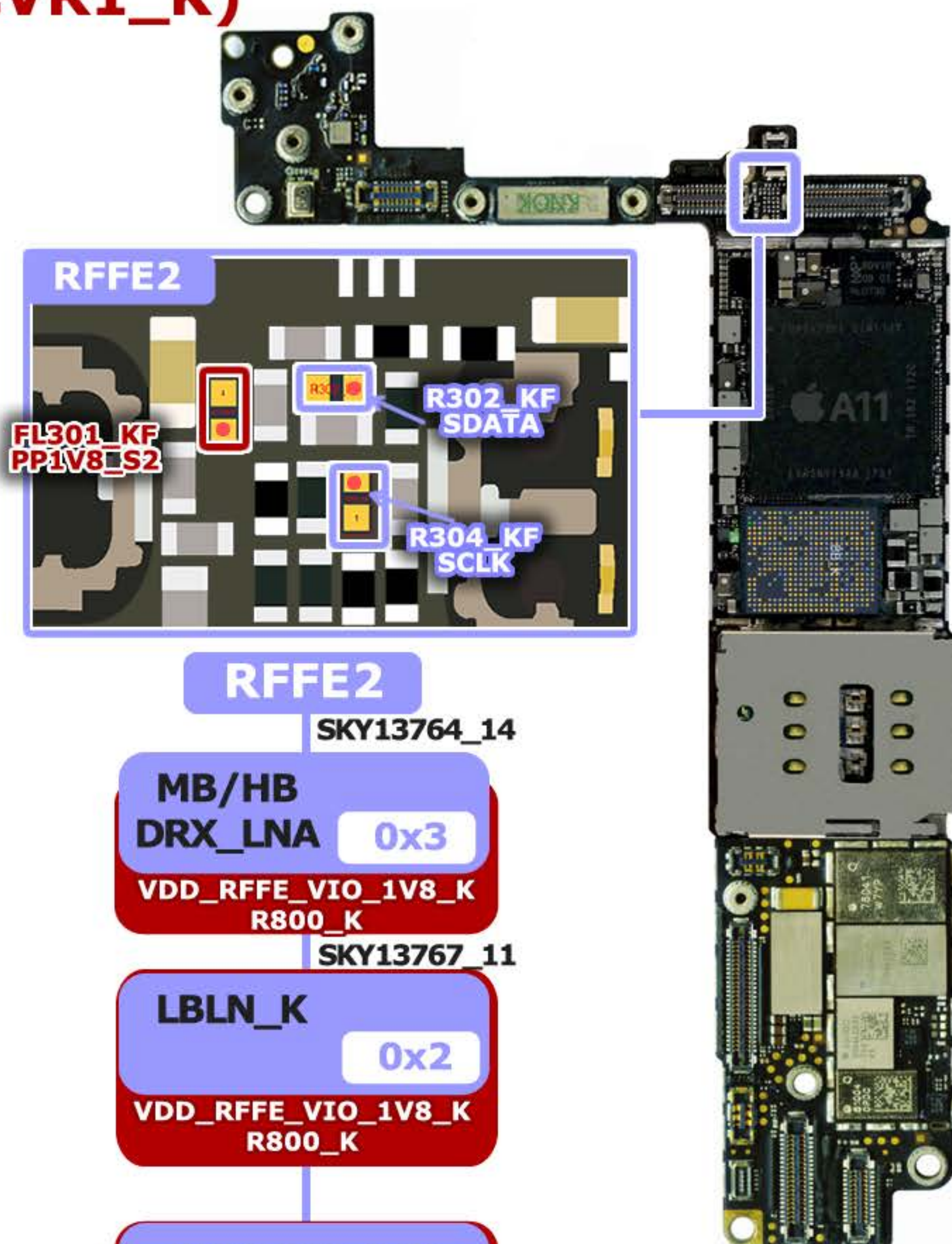
0x9 0xA
LB_MB_HB_DRX_ASM

QM18099

LAT TUNER
* GPO 0x8
PP1V8_S2 - FL600_K

J6400
DOCK FLEX

C801_K / R800_K
R1200_K
VDD_RFFE_VIO_1V8_K



RFFE2

FL301_KF
PP1V8_S2

R302_KF
SDATA

R304_KF
SCLK

RFFE2

SKY13764_14

MB/HB
DRX_LNA 0x3

VDD_RFFE_VIO_1V8_K
R800_K

SKY13767_11

LBLN_K 0x2

VDD_RFFE_VIO_1V8_K
R800_K

UAT_TUNER_FLEX
TUNFX_KF

* PP1V8_S2 - FL301_K

QM18098

UAT TUNER GPO
* 0x8

PP1V8_S2 - FL301_K

Necessary test
points to read RFFE

- SCLK
- SDATA
- GND
- 1V8*

FL600_K
PP1V8_S2



RFFE1

R1200_K
1V8

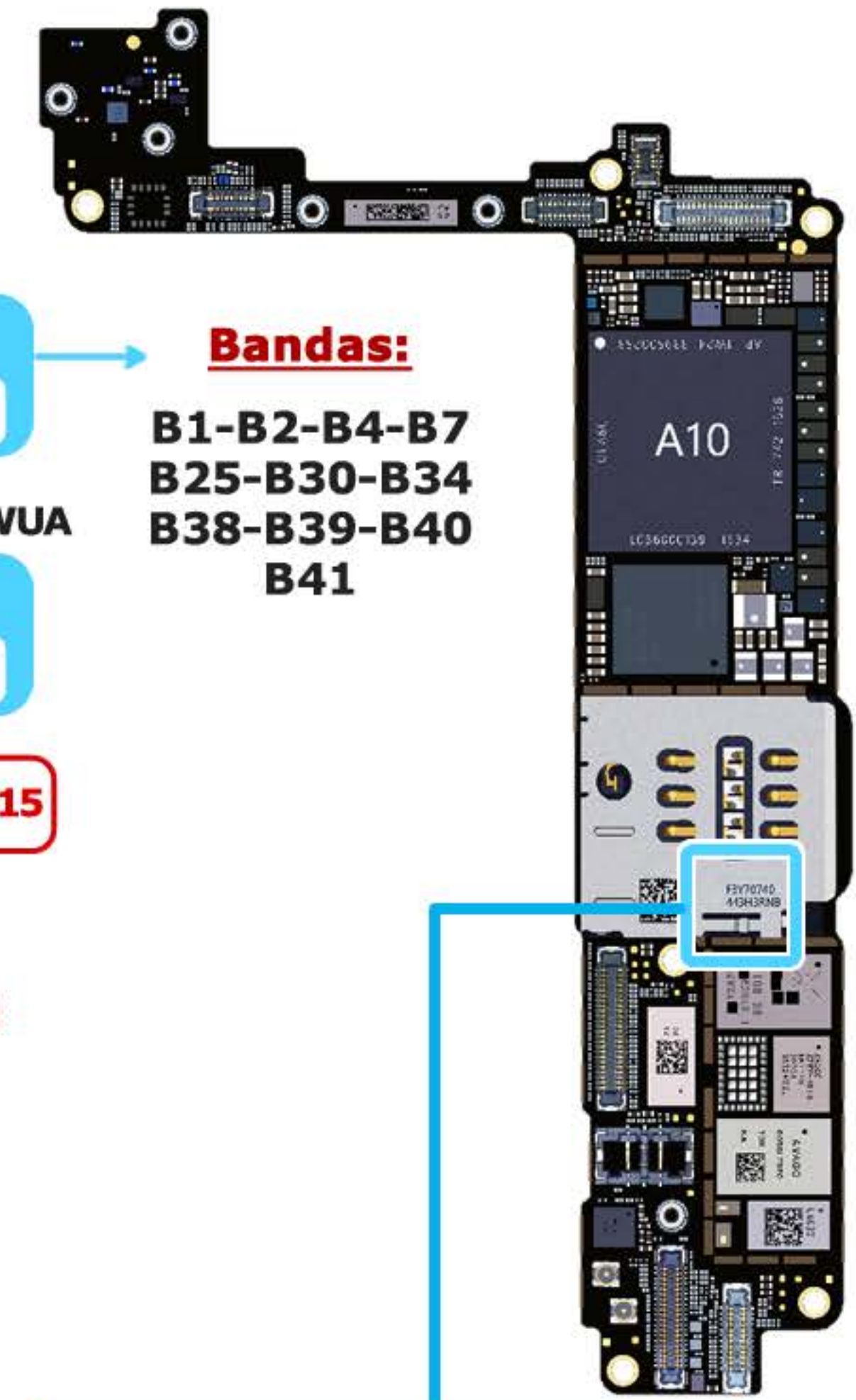
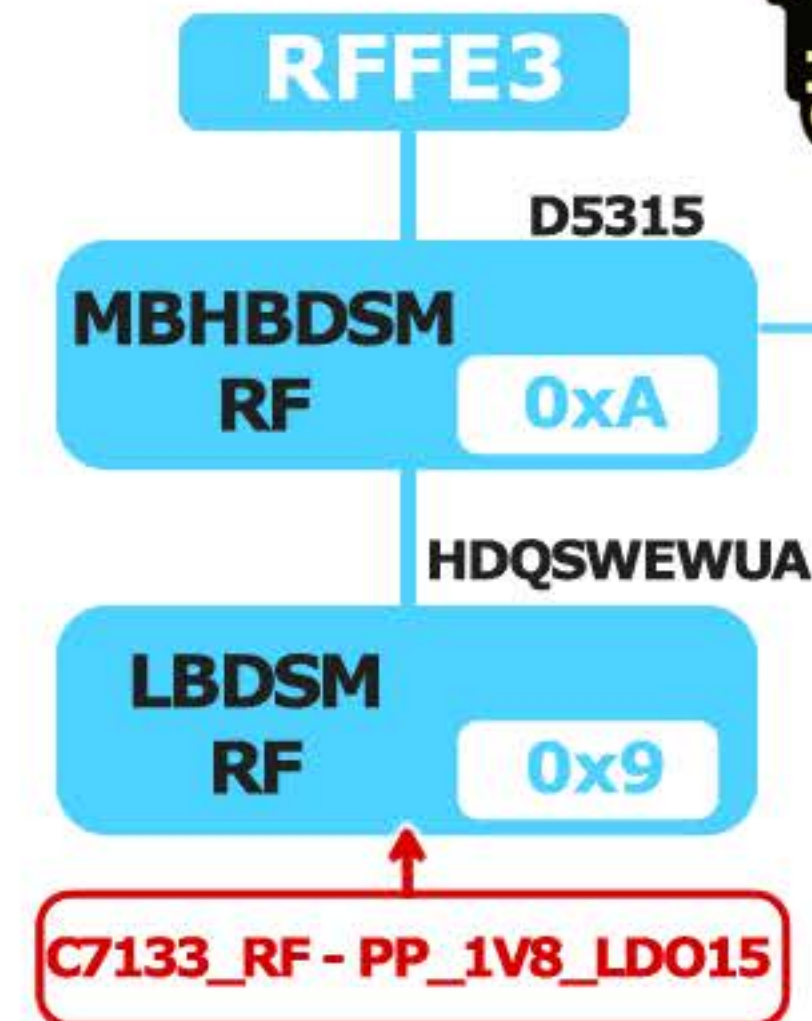
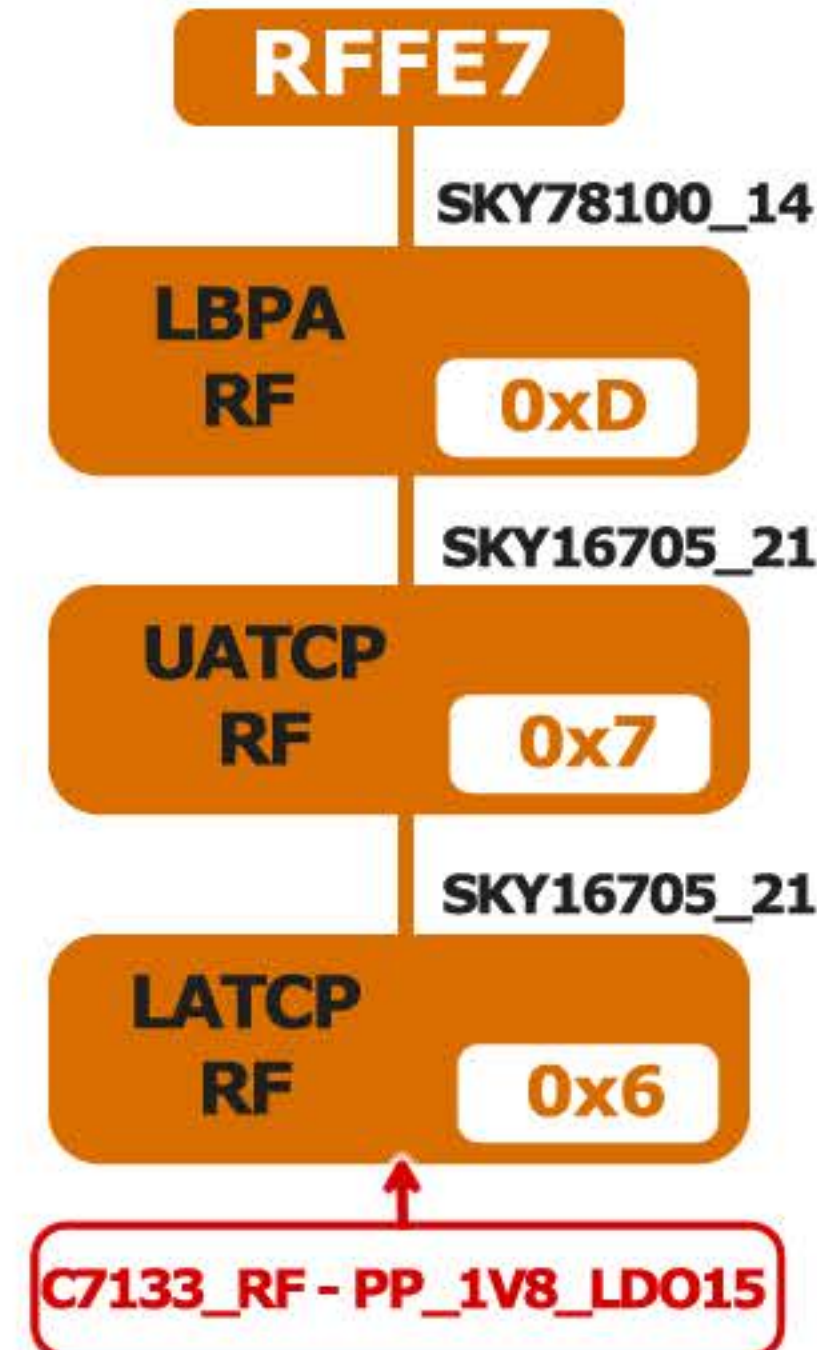
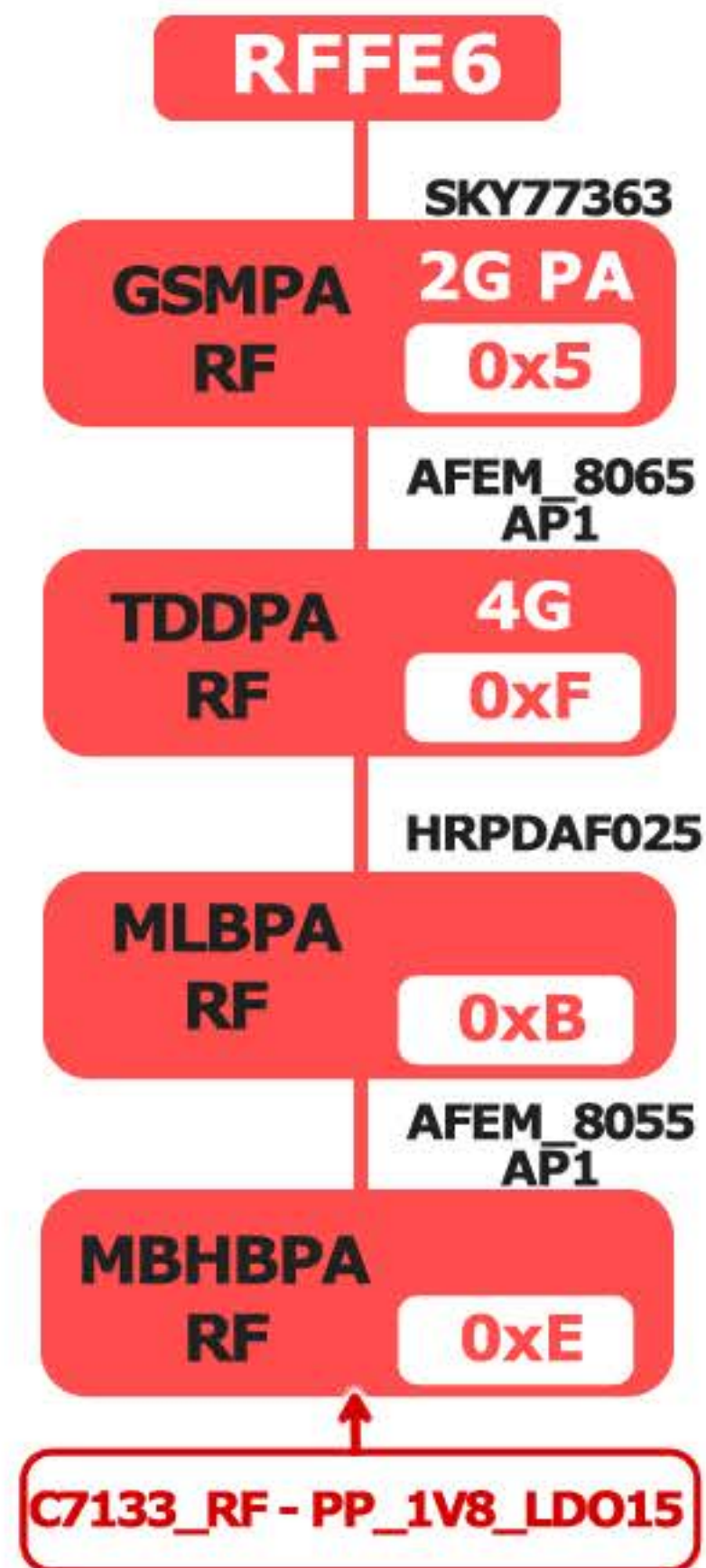
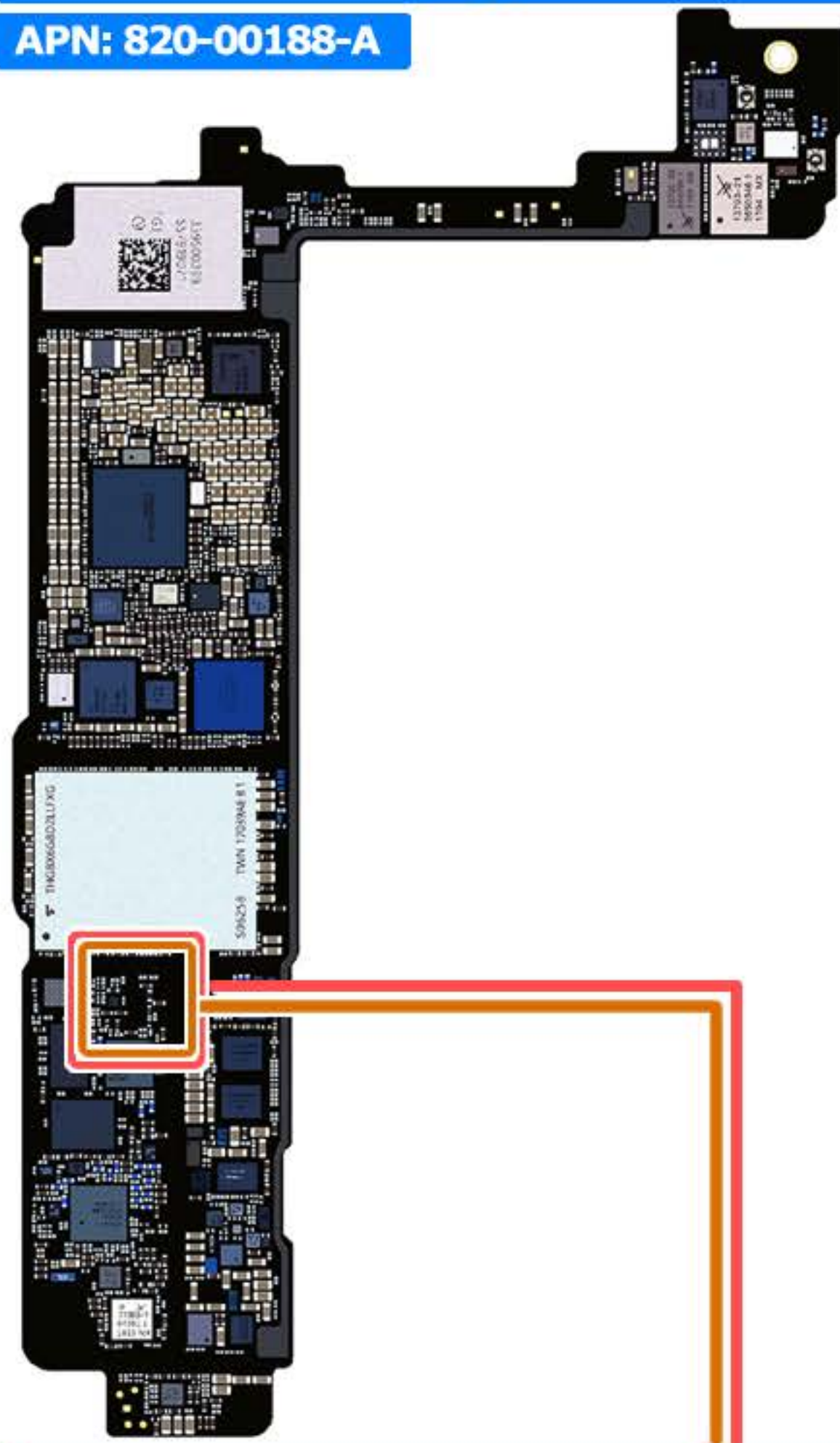
R1201_K
SDATA

R1202_K
SCLK

RFFE <-> (BB_RF)

IPHONE 7 QUALCOMM

APN: 820-00188-A

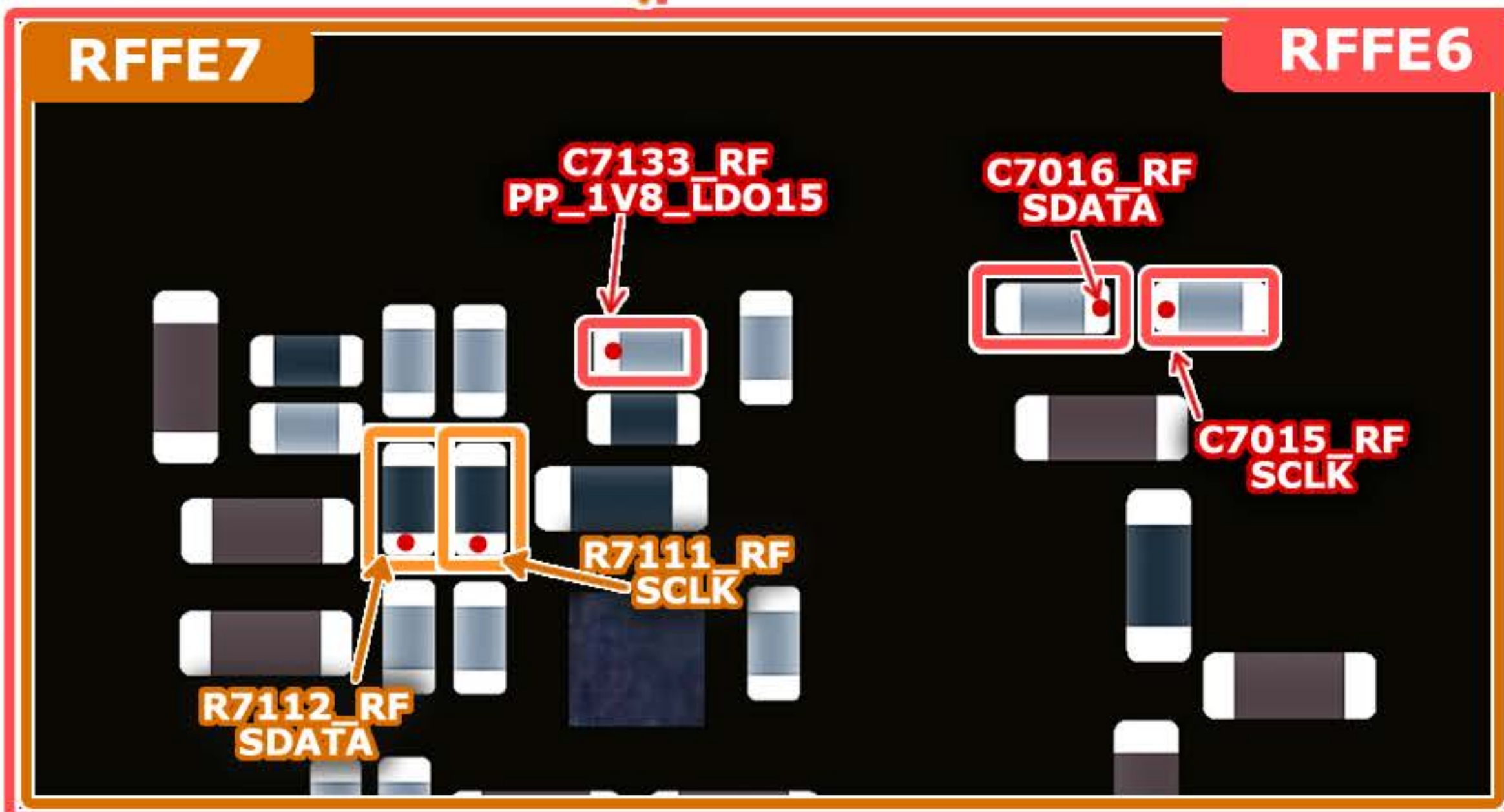


Bandas:

B1-B2-B4-B7
B25-B30-B34
B38-B39-B40
B41

Necessary test points to read RFFE

- SCLK
- SDATA
- GND
- 1V8*



RFFE TABLE

- RFFE1: WTR 3925
- RFFE2: QFE 3100
- RFFE3: DIU MODULES
- RFFE4: WTR 4905
- RFFE5: TUNERS + ELNAS
- RFFE6: 2GPA, MLB PA, MB/HB TDD PA, MB/HB FDD PA
- RFFE7: LB PA, COUPLERS

