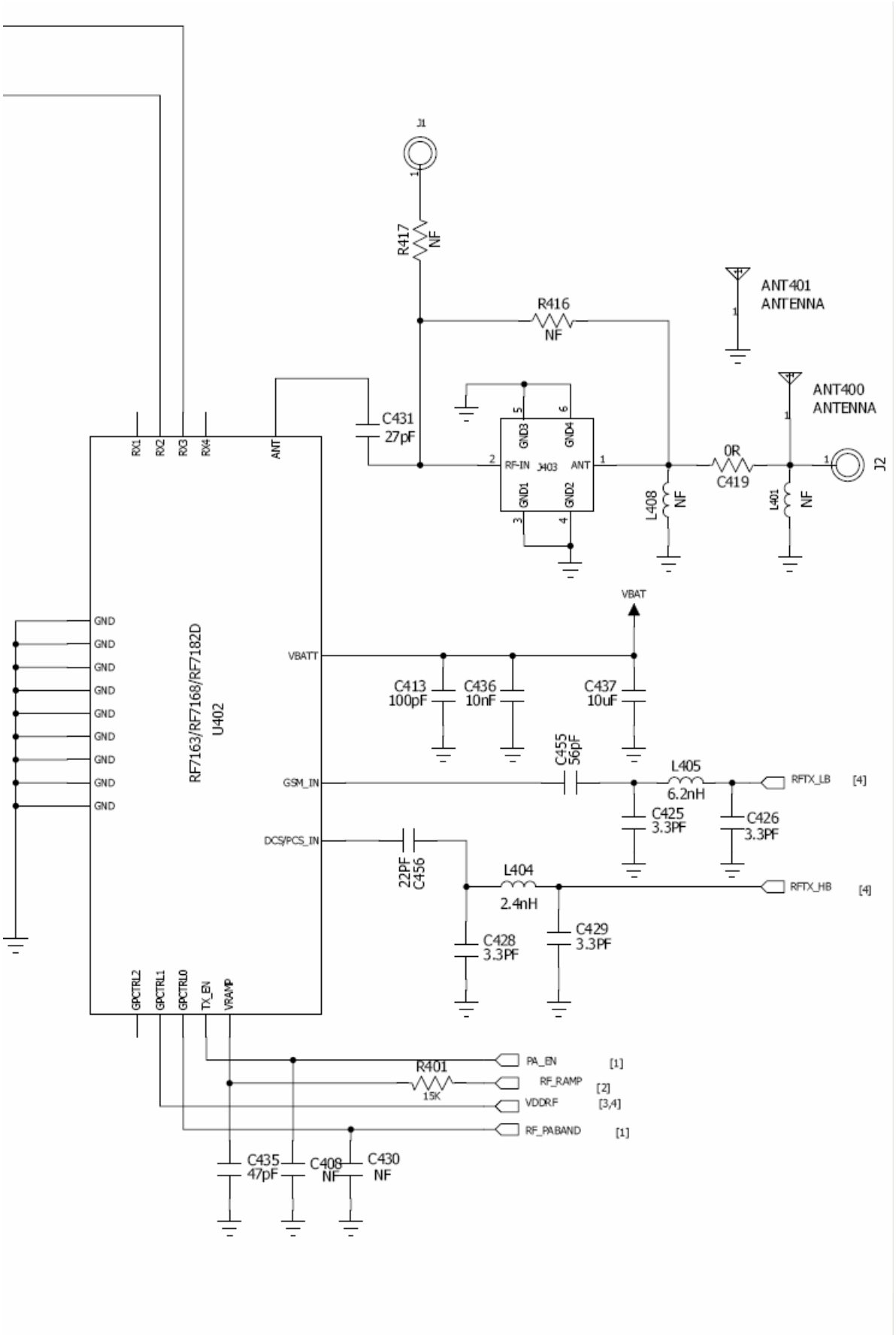
This project integrates basebandand RF module　N700_MB_V0.6，The module is mounte dasapart of this project with the PCBA.

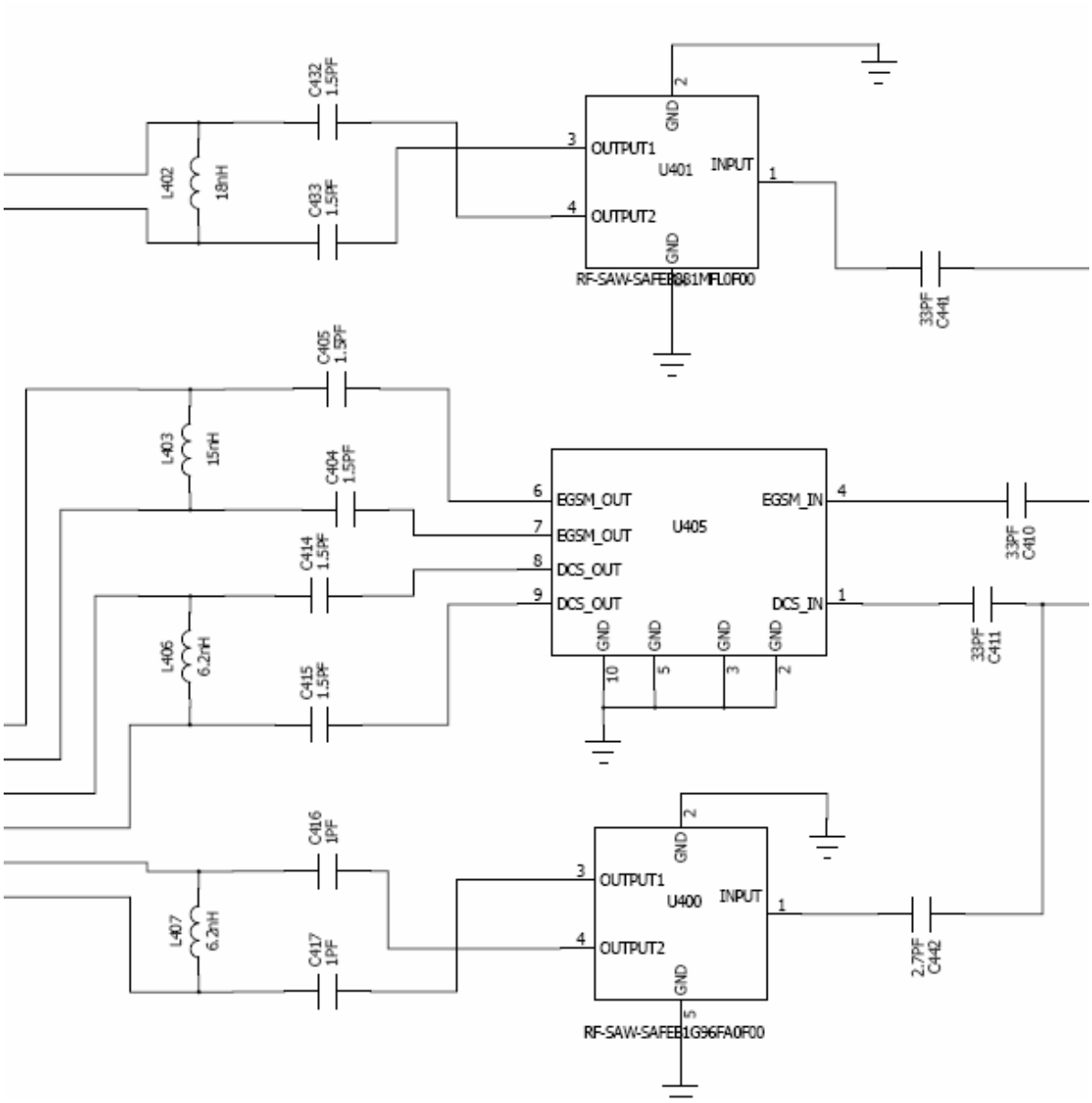
1. RFPA and antenna switch SCH（page4）


J1
R417
NF
R416
NF
ANT401
ANTENNA
ANT400
ANTENNA
C431
27pF
RX1
RX2
RX3
RX4
ANT
GND3
GND4
RF-IN
J403
ANT
GND1
GND2
0R
C419
L408
NF
L401
NF
J2
VBAT
GND
RF7163/RF7168/RF7182D
U402
VBATT
C413
100pF
C436
10nF
C437
10uF
C455
56pF
L405
6.2nH
GSM_IN
RFTX_LB
[4]
C425
3.3PF
C426
3.3PF
DCS/PCS_IN
22PF
C456
L404
2.4nH
RFTX_HB
[4]
C428
3.3PF
C429
3.3PF
GPCTRL2
GPCTRL1
GPCTRL0
TX_EN
VRAMP
R401
15K
PA_EN
[1]
RF_RAMP
[2]
VDDRF
[3,4]
RF_PABAND
[1]
C435
47pF
C408
NF
C430
NF

The aerial signal mobile phone received goes from GSM_ANT to RF Connector J403. RF Connector is a special parts developed for RF test. By connecting RF cable to spectrum analyzer, you can measure RF signal.Signal output from RF Connector will be input to GSM quad band front-end module U402 (integratedwithRFPA). CPU output signals to the ports of U403,such as CPCTL0, CPCTL1,and TX_EN . TX_EN will be incharge of GSM quad band front-end module U403, in relative Band (GSM850、GSM900、DCS1800、PCS1900) and in TX/RX or standby status as belowfigure.

TX ENABLE	GpCtrl1	GpCtrl0	TX Module Mode
0	0	0	Low Power Mode (Stand-by)
0	1	0	RX 0
0	1	1	RX 1
1	1	0	GSM850/900 TX MODE
1	1	1	DCS/PCS TX MODE

2. RX SAW Filter SCH (page4)

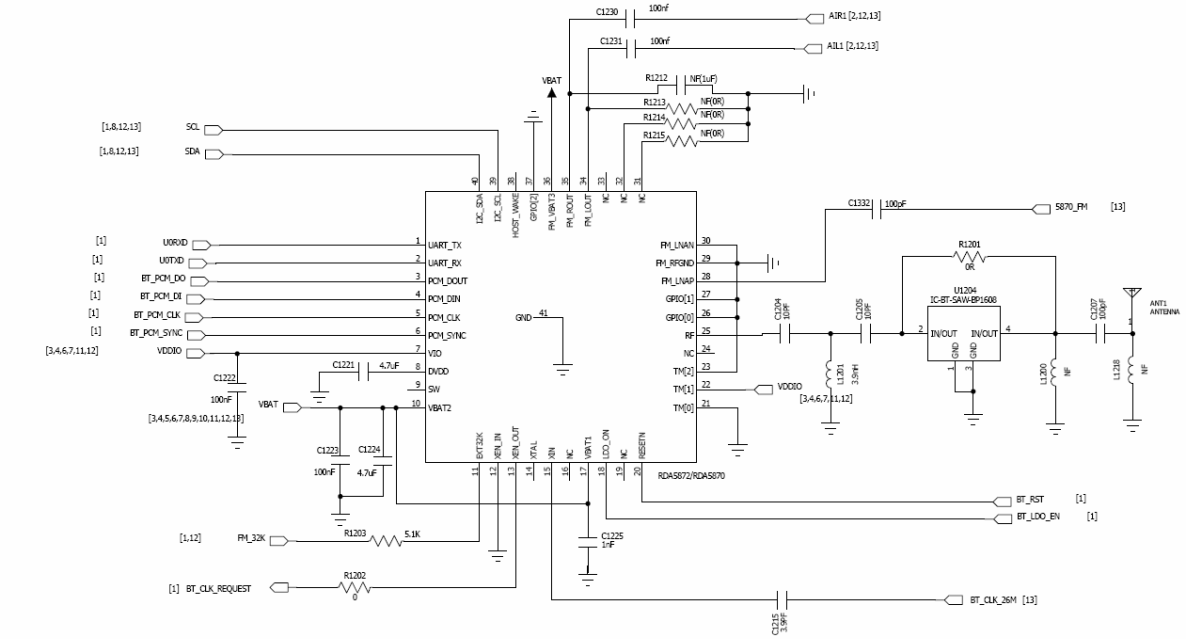


The RX signal output from RF SW,than input SAWfilter.changed two difference signal sin SAWfilter,

than input the transceiver of U404(QS518).

3. The RF overall schematic as “7203-CIRCUIT FOR N700” page 4. It contains the TX pathand RX path.The signal received rom the air will be demodulated in CPU through RX SAW and Transceiver,Then the original voice signal will driver the receiver. At the sametime the signal from microphone will be sent to transceiver through , then be amplified by RFPA, at last sent to air from the antenna switch.

4 BT partschematic (page12)



The Blue tooth over all schematic as up.RDA5872 is a highly integrated Bluetooth IC,which is compliant with Bluetooth2.0 specification an dprovides an optimal solution for data and voice application. It includes powerfull processing capabilities with rich features and a high performance transceiver, all in a compact single package.