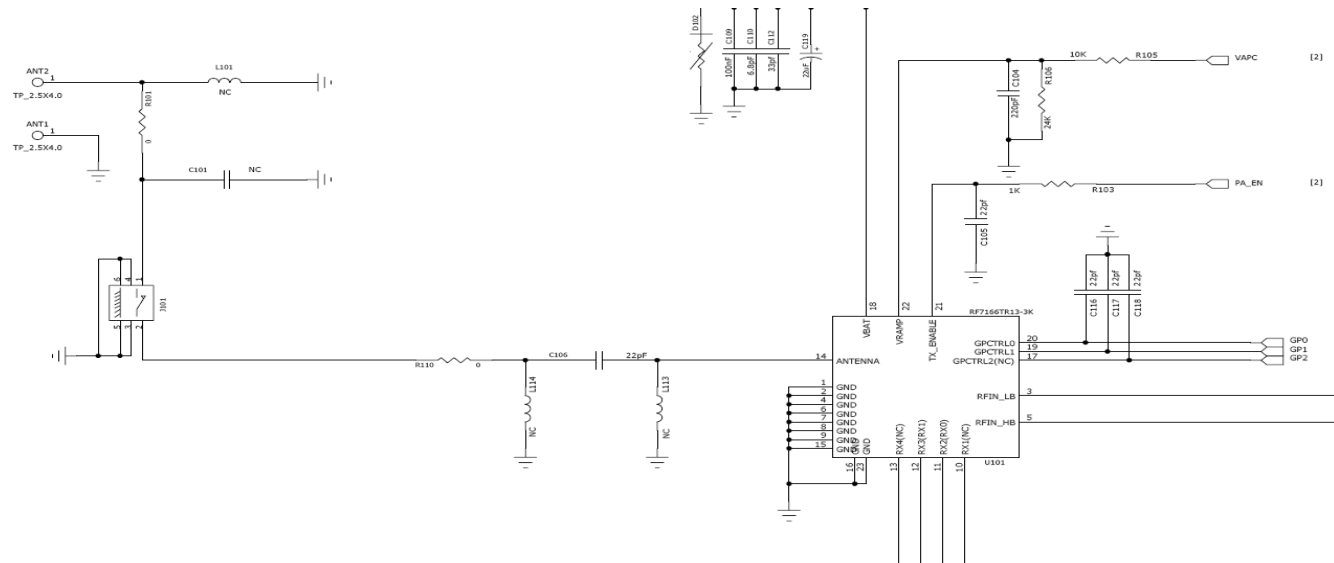


## 1 RX antenna switch SCH (Refer to SCH page1)

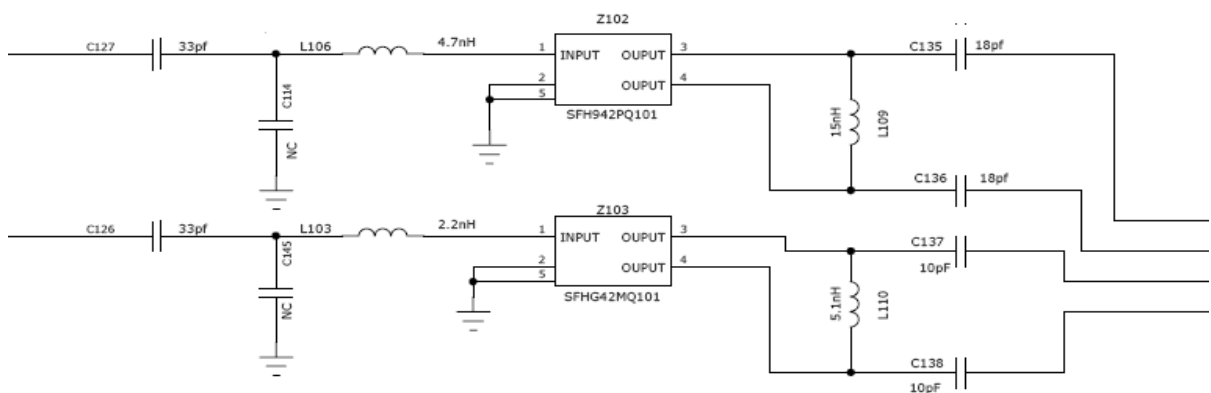


The aerial signal mobile phone received goes from antenna to RF Connector. RF Connector, which is a special parts developed for RF test. By connecting RF cable to spectrum analyzer, you can measure RF signal.

Signal output from RF Connector will be input to GSM Dual band front-end module U101 (integrated with RF PA ).CPU output GP0 , GP1 and TX\_ENABLE signals , which will be in charge of GSM Dual band front-end module U101 in relative Band(GSM850、 PCS1900)and in TX/RX or standby status as below figure

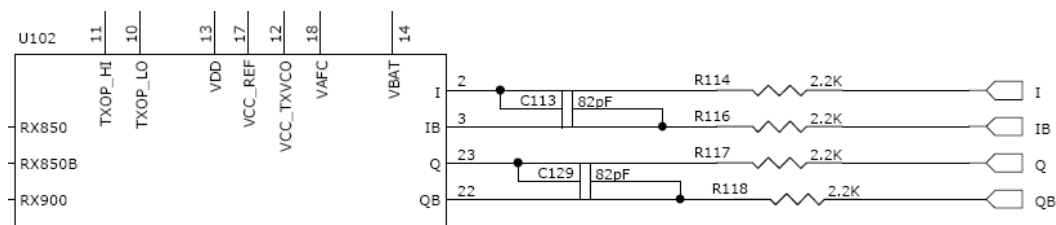
TX ENABLE	Gpctrl1	Gpctrl0	TX module Mode
0	0	0	Low Power Mode (stand-by)
0	1	0	RX0
0	1	1	RX1
1	1	0	GSM850 TX Mode
1	1	1	PCS1900 TX Mode

## 2 RX SAW Filter SCH

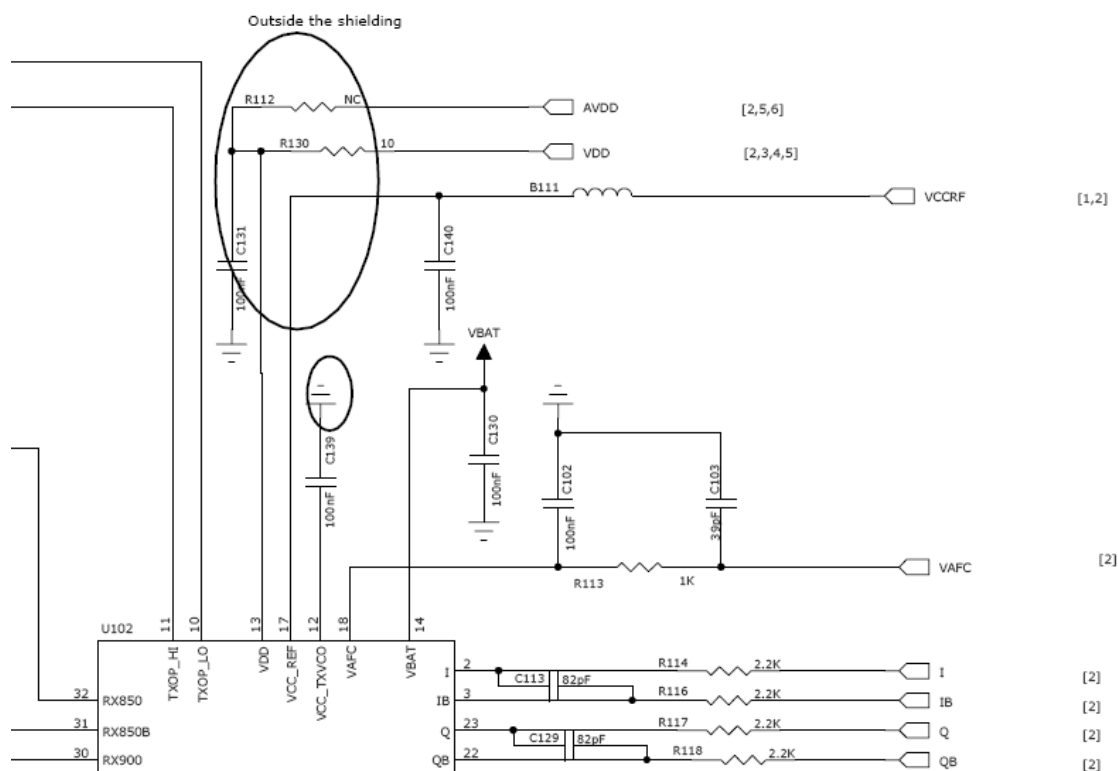


The RX signal output from RF SW, than input SAW filter .changed two difference signals in SAW filter, than input the transceiver of U102. Signal demodulated in U102 after pass SAW filter: Signal pass LNA, mixed with local signal (VCO frequency

synthesizer), pass PGA and ADC, mixed with local signal low-IF, after pass the DAC, then output IQ signal .Four IQ signals input to CPU (U201). For example,EGSM signals GSMA 、GSMB pass LNA , mixed with local signal (VCO frequency synthesizer),output four signals of I,IB,Q,QB , pass LNA and digital filter, the signals output from Pin2、Pin3、Pin22、Pin23 in U102 ,input CPU (U201 ) through R114,R116,R117,R118。REF below chart



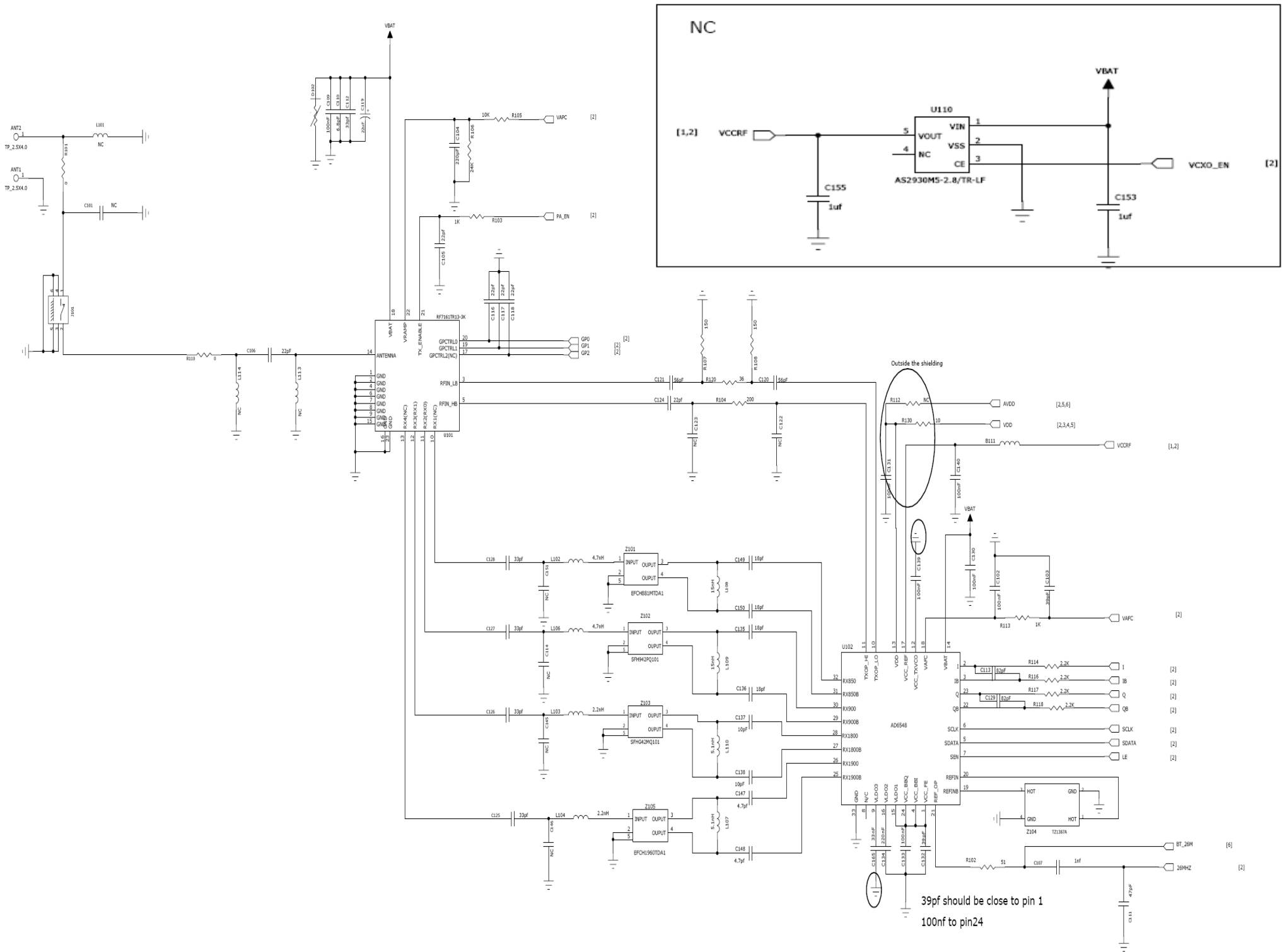
### 3 TX transceiver SCH



Audio signal input Microphone, Microphone convert the voice signal to analog signal and input to CPU (U201). After A/D (convert analog signal to digital signal) in CPU, then the logic signal will be processed in DSP section .Then the processed logic signal pass D/A converter, output four signals (IQ) from CPU (U201) to transceiver (U102). The TX output signal from transceiver [pin 10(GSM850) & pin 11(PCS)] will flow to RF PA (U101).

TX signals output from PA (U103), flow through RF\_SW (Front-end module part of RF PA), RF-Connector to antenna. REF below chart

### 4 RF part schematic (refer to SCH PAGE1)



The RF overall schematic as up. It contains the TX path and RX path. The signal received from the air will be demodulated in CPU through RX SAW and Transceiver, Then the original voice signal will driver the receiver.

At the same time the signal from microphone will be sent to transceiver through CPU, then be amplified by RF PA, at last sent to air from the antenna switch.

##### 5. Bluetooth part SCH

BlueCore 6-ROM is a single-chip radio and baseband IC for Bluetooth 2.4GHZ systems including EDR to 3Mbps. With the on-chip CSR Bluetooth software stack, it provides a full compliant Bluetooth v2.1+EDR specification system for data and voice communications.

# Bluetooth

