# Tune-up procedures

## 1.1Test Equipment List

–GSM and WCDMA tester:    CMU200
–Dummy battery or Power Supply: agilent E66319D
–PC with serial port
–GPIB card

## 1.2 VCTCXO frequency accuracy adjust procedure

## Function:

To calibrate the VCTCXO frequency accuracy.

## Procedure:

step1: The computer sets E960 to the Factory test mode and works at US cellular band, sets the CMU200 to PCS1900/GSM850    Analyzer mode.
Step2: E960 was adjusted to transmit 30dBm/33dBm by tuning the ADC. Use the CMU200 to measure the frequency error. Tuning the PDM parameter until the frequency error ≤190Hz/85Hz.

## 1.3 The PCS1900/GSM850 power adjust procedure

## Function:

After the PCS1900/GSM850 transmit POWER calibration the E960 can find the relationship between the TX-AGC and output power. So it can transmit the specific power according to the 3GPP protocol.

## Procedure:

Step1: The computer sets E960 to the Factory test mode and works at PCS1900/GSM850 mode, sets the CMU200 to PCS1900/GSM850 Analyzer mode.
Step2: Tuning the TX-AGC of E960 from 60 to 460 and measure the output power of the E960 via CMU200, so we can find the relationship between the TX-AGC and output power.


**Note    The user has no possibility to change these settings later on.**