

Tune-up procedures

1.1 Test Equipment List

- CDMA2000 tester: CMU200
- Dummy battery or Power Supply: Agilent 66319D
- 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 C3500 to the Factory test mode and works at US cellular band, sets the CMU200 to CDMA2000 Cellular Analyzer mode.

Step2:C3500 was adjusted to transmit 24dBm by tuning the ADC. Use the CMU200 to measure the frequency error. Tuning the PDM parameter until the frequency error $\leq 300\text{Hz}$.

1.3 The CDMA2000 power adjust procedure

Function:

After the CDMA2000 transmit POWER calibration the C3500 can find the relationship between the TX-AGC and output power. So it can transmit the specific power according to the 3GPP2 protocol.

Procedure:

Step1: The computer sets C3500 to the Factory test mode and works at CDMA2000 Bandclass0, sets the CMU200 to CDMA2000 Cellular Analyzer mode.

Step2: Tuning the TX-AGC of C3500 from 60 to 460 and measure the output power of the C3500 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.