Tune-Up Procedure and Power Tune-Up – Power Limiting

- 1.It must provide an operational voltage (3.5~5V DC) to turn on the phone and on one certain channel in service mode by means of company proprietary software.
- 2.Base station simulator (Rohde& Schwarz CMU200 or Agilent 8960) measures the GSM phone specific RF characteristics.
- 3. The maximum gain of each individual phone is adjusted until the target value met.

For GSM Ber < 2% at static condition

GSM 850 RX sensitivity < -106dBm

PCS1900 RX sensitivity < -105dBm

Type of	GSM850 GPRS	PCS1900 GPRS
channel		
CS1	-107	-106
CS2	-107	-106
CS3	-107	-106
CS4	-104	-103

Tune Up Procedure

- 1. GSM RX Gain Calibration
- a. Put DUT in test mode
- b. Put DUT in BCH mode
- c. Put DUT in selected channel band
- d. Total gain chain calibration at center ARFCN
- e. Frequency Ripple calibration
- f. Complete RX_AGC Gain table

- 2. GSM TX Power Calibration
- a. Put DUT in test mode
- b. Put DUT in BCH mode
- c. Put DUT in selected channel band
- d. Calibrate Rampscale value at center ARFCN
- e. Frequency Ripple calibration
- f. Complete TX_APC table
- 3. AFC calibration
- a. Put DUT in test mode
- b. Put DUT in selected channel band
- c. Calibrate AFC at center ARFCN
- d. Complete AFC result table

Maximum Target Output Power

Max Target Power(dBm)					
Mada/Dand	Channel				
Mode/Band	Low	Middle	High		
GSM 850	33	33	33		
PCS 1900	30	30	30		