

Tune up procedure

1. It must provide an operational voltage (3.5~4.2V DC) to turn on the phone and on one certain channel in service mode by means of company proprietary software.

2. Base station simulator (CMU 200) measures the GSM phone specific RF characteristics.

3. The maximum gain of each individual phone are adjusted until the target value met

PCL = 0, PWR = 31.69 ± 0.5 dBm

PCL =1, PWR = 28 ± 0.5 dBm

PCL =2, PWR = 26 ± 0.5 dBm

PCL =3, PWR = 24 ± 0.5 dBm

PCL =4, PWR = 22 ± 0.5 dBm

PCL =5, PWR = 20 ± 0.5 dBm

PCL =6, PWR = 18 ± 0.5 dBm

PCL =7, PWR = 16 ± 0.5 dBm

PCL =8, PWR = 14 ± 0.5 dBm

PCL =9, PWR = 12 ± 0.5 dBm

PCL =10, PWR = 10 ± 0.5 dBm

PCL =11, PWR = 8 ± 0.5 dBm

PCL =12, PWR = 6 ± 0.5 dBm

PCL =13, PWR = 4 ± 0.5 dBm

PCL =14, PWR = 2 ± 0.5 dBm

PCL =15, PWR = 0 ± 0.5 dBm

For WCDMA, the maximum power is 22.55 ± 0.5 dBm.

Then this appropriate gain settings are stored in each phone individually.

The user has no possibility to change these settings later on, and during manufacturing

each phone will be individual calibrated. The measurement is done in fully calibrated

setup, which is based on a Rohde& Schwarz CMU200 base station simulator.

Furthermore, the highest power level is verified afterwards in a call measurement on

three channels (low, middle and high).