

## Tune up procedure

Tune up procedure shall be over the power range or at specific operating power levels.

1. It must provide an operational voltage (3.6 ~ 4.35V DC) to turn on the device and on one certain channel in service mode by means of company proprietary software.
2. . The Base station simulator measures this device for their specific RF characteristics.
3. The maximum gains of each individual device are adjusted until the target value met.

RF average conduct power range:

### ▶ 1.1 GSM850

Output power of range:

GSM/GPRS (GMSK):

GSM:32.5dBm±0.5dBm

1TXslots:32.5dBm±0.5dBm

2TXslots:31.5dBm±0.5dBm

3TXslots:29.5dBm±0.5dBm

4TXslots:28.5dBm±0.5dBm

### ▶ 1.2 GSM900

Output power of range:

GSM/GPRS (GMSK):

GSM:32.5dBm±0.5dBm

1TXslots:32.5dBm±0.5dBm

2TXslots:31.5dBm±0.5dBm

3TXslots:29.5dBm±0.5dBm

4TXslots:28.5dBm±0.5dBm

### ▶ 1.3 DCS1800

Output power of range:

GSM/GPRS (GMSK):

GSM: 29.5dBm±0.5dBm

1TXslot:29.5dBm±0.5dBm

2TXslots:28.5dBm±0.5dBm

3TXslots:26.5dBm±0.5dBm

4TXslots:25.5dBm±0.5dBm

### ▶ 1.4 PCS1900

Output power of range:

GSM/GPRS (GMSK):

GSM:  $30\text{dBm} \pm 1\text{dBm}$

1TXslot:  $30\text{dBm} \pm 1\text{dBm}$

2TXslots:  $29.5\text{dBm} \pm 0.5\text{dBm}$

3TXslots:  $27.5\text{dBm} \pm 0.5\text{dBm}$

4TXslots:  $26.5\text{dBm} \pm 0.5\text{dBm}$

#### ▶ 1.6 WCDMA

WCDMA1900:  $\text{PWR} = 22.5 \pm 1\text{dBm}$

WCDMA850:  $\text{PWR} = 22.5 \pm 1\text{dBm}$

#### ▶ 1.7 BT

BT:  $4\text{dBm} \pm 1\text{dBm}$  (Basic Rate)

BLE:  $4\text{dBm} \pm 1\text{dBm}$

#### ▶ 1.8 WIFI

802.11b  $\text{PWR} = 16 \pm 1\text{dBm}$

802.11g  $\text{PWR} = 14 \pm 1\text{dBm}$

802.11n HT20  $\text{PWR} = 12.5 \pm 2\text{dBm}$

802.11n HT40  $\text{PWR} = 12.5 \pm 2\text{dBm}$