

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 (3.5~ 4.2V 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 the WWAN device specific RF characteristics.
3. The maximum gains of each individual device are adjusted and measured until the target value met.

- **For GPRS 850 band (1slot):**

PCL = 5, PWR = 31.0 ± 0.5 dBm

- **For GPRS 850 band (2slot):**

PCL = 5, PWR = 29.5 ± 0.5 dBm

- **For GPRS 850 band (3slot):**

PCL = 8, PWR = 27.5 ± 0.5 dBm

- **For GPRS 850 band (4slot):**

PCL = 8, PWR = 26.0 ± 0.5 dBm

- **For GPRS 1900 band (1slot):**

PCL = 0, PWR = 27.0 ± 0.5 dBm

- **For GPRS 1900 band (2slot):**

PCL = 0, PWR = 27.0 ± 0.5 dBm

- **For GPRS 1900 band (3slot):**

PCL = 0, PWR = 25.5 ± 0.5 dBm

- **For GPRS 1900 band (4slot):**

PCL = 2, PWR = 24.5 ± 0.5 dBm

Then these appropriate gain settings are stored in each device individually. The user has no possibility to change these settings later on, and during manufacturing each device will be individual calibrated in this range. The measurement is done in a fully calibrated setup, which is based on the base station simulator. Furthermore, the highest power level is verified afterwards in a call measurement on three channels (low, middle and high).

At last you can also help to update the NV by Qualcomm NV tools.