Tune-up procedure

Each device is individually calibrated during manufacturing. Measurement is performed in a full calibrated setup using an Agilent 8960 base station simulator (system tester).

Measurement procedure is outlined below:

1. Set the device to operational voltage and on a predefined band class and channel.
2. The maximum output power is measured when the power control bit is set as all UP bits. The UMTS/GSM/LTE RF output power will be adjusted equal or lower than tested power shown in the test report.
3. The WIFI specific RF characteristics were measured by spectrum analyzer and power meter.

The user has no possibility to change these settings.

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

1. It must provide an operational voltage (3.6 ~ 4.0Vdc) 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 until the target value met.

Conducted Power Table

Technology/Band	Mode	Target Power and Tolerance (dBm)
GSM 850	GSM	31.5±0.5 dBm
	GPRS 8 (GMSK)	31.5±0.5 dBm
	GPRS 10 (GMSK)	30.0±0.5 dBm
	GPRS 11 (GMSK)	28.5±0.5 dBm
	GPRS 12 (GMSK)	27.5±0.5 dBm
GSM 1900	GSM	28.0±0.5 dBm
	GPRS 8 (GMSK)	28.0±0.5 dBm
	GPRS 10 (GMSK)	21.0±0.5 dBm
	GPRS 11 (GMSK)	20.5±0.5 dBm
	GPRS 12 (GMSK)	21.0±0.5 dBm