

2ALET-KW1401

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 to turn on the device and on one certain channel in service mode by means of company proprietary software.
2. Base station simulator (CMW500) measures the Mobile phone device specific RF characteristics.
3. The maximum gains of each individual device are adjusted until the target value met.

Tune - up Power			
Mode	WCDMA Band II	WCDMA Band V	/
RMC 12.2kbps	21.5dBm \pm 1.0	22.0dBm \pm 1.0	/
HSDPA	21.5dBm \pm 1.0	22.0dBm \pm 1.0	/
HSUPA	21.5dBm \pm 1.0	22.0dBm \pm 1.0	/

Tune - up Power			
Mode	LTE Band 2	LTE Band 4	LTE Band 5
QPSK	22.0dBm \pm 1.0	22.5dBm \pm 1.0	22.0dBm \pm 1.0
16QAM	21.0dBm \pm 1.0	22.5dBm \pm 1.0	22.0dBm \pm 1.0

Tune - up Power			
Mode	LTE Band 12	LTE Band 17	LTE Band 41
QPSK	22.0dBm \pm 1.0	22.0dBm \pm 1.0	21.0dBm \pm 1.0
16QAM	22.0dBm \pm 1.0	22.0dBm \pm 1.0	21.0dBm \pm 1.0

Tune - up Power		
WLAN 2.4G	802.11b	13.5 dBm \pm 1.0
	802.11g	13.0 dBm \pm 1.0
	802.11n(HT20)	11.5 dBm \pm 1.0
Bluetooth	GFSK	0.5 dBm \pm 1.0
	Pi/4QPSK	0.5 dBm \pm 1.0
	8DPSK	0.5 dBm \pm 1.0
BLE(1M)	GFSK	0.0 dBm \pm 1.0

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. The measurement is done in fully calibrated setup, which is based on a CMW500 base station simulator. Furthermore, the highest power level is verified afterwards in a call measurement on three channels (low, middle and high).