SWAGTEK

Tune-up (dBm) procedure

This is to formally certify that:
The tune up procedures of 2G Feature Phone (FCC ID: O55181223)
The tune up procedures of is not open to end user. The end user is not allowed to perform final tune. All the power and frequency set up were finished at the manufacturer stage.

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

Procedure:
1. Set the phone to operational voltage and on one certain channel in a special service mode by means of company proprietary software.
2. The actual power is measured at several power levels.
3. The gain factors of each individual phone are adjusted via the Board-test SW using automatic adjustment arithmetic until the Tune-up Range (dBm) value is met.

It must provide an operational voltage (DC 3.7V by battery) to turn on the device and on one certain channel in service mode by means of company proprietary software.
spectrum analyzer(Agilent, N9020A) and Power meter
(DARE, RPR3006W)measures the 2.4G device specific RF characteristics.
Base station simulator (R&S CMW500) measures the 2G device specific RF characteristics. The maximum power of each individual channels are adjusted until the target value met.

Band GSM850	Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	128	189	251
Frequency (MHz)		824.2	836.4	848.8
GSM (GMSK)	33.50	33.40	33.42	33.43
Band GSM1900	Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	512	661	810
Frequency (MHz)		1850.2	1880.0	1909.8
GSM (GMSK)	31.00	30.64	30.19	29.50

BR+EDR	Output Power (dBm)				
	Channel	Tune-up (dBm)	Data Rates		
			1M	2M	3M
	0CH	2.00	1.39	1.57	1.54
	39CH	3.00	2.50	2.55	2.53
	78CH	3.00	1.29	2.64	2.58

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