

SGH - S300 Tx Power Tune up Procedure

1. Calibration Equipment : HP 8960

2. Calibration Program : Samsung internal software

3. Procedure :

- a. Calibration equipment HP8960 and the cell phone are connected through HP1B.
- b. Target power (required power level according to the specification which should be set by calibration program) is set to equipment as power level (ex : GSM 5 level is 32.5 dBm).
- c. Activate phone in Tx_Mode_Only.
- d. HP8960 equipment measures transmitted power through rf test cable from the phone and reports measured level to calibration program .
- e. The program compares measured power with the target power.
- f. The calibration program decides power code which is defined in advance in the program) and writes the codes to the flash memory in the phone .

4. Target value is defined according to the value of GSM specification.
See the TX power level definition table below .

5. Target values of the peak level of the phone are set normally in conducted mode

- GSM 5 level : 32.5dBm
- DCS 0 level : 29.5dBm
- PCS 0 level : 29.5dBm (Tolerance : 2dB ~ +1dB)

6. Accuracy

All the TX level from the phone after tuned-up satisfy the GSM specification

7. TX ramp mask specification applied to the calibration program :

