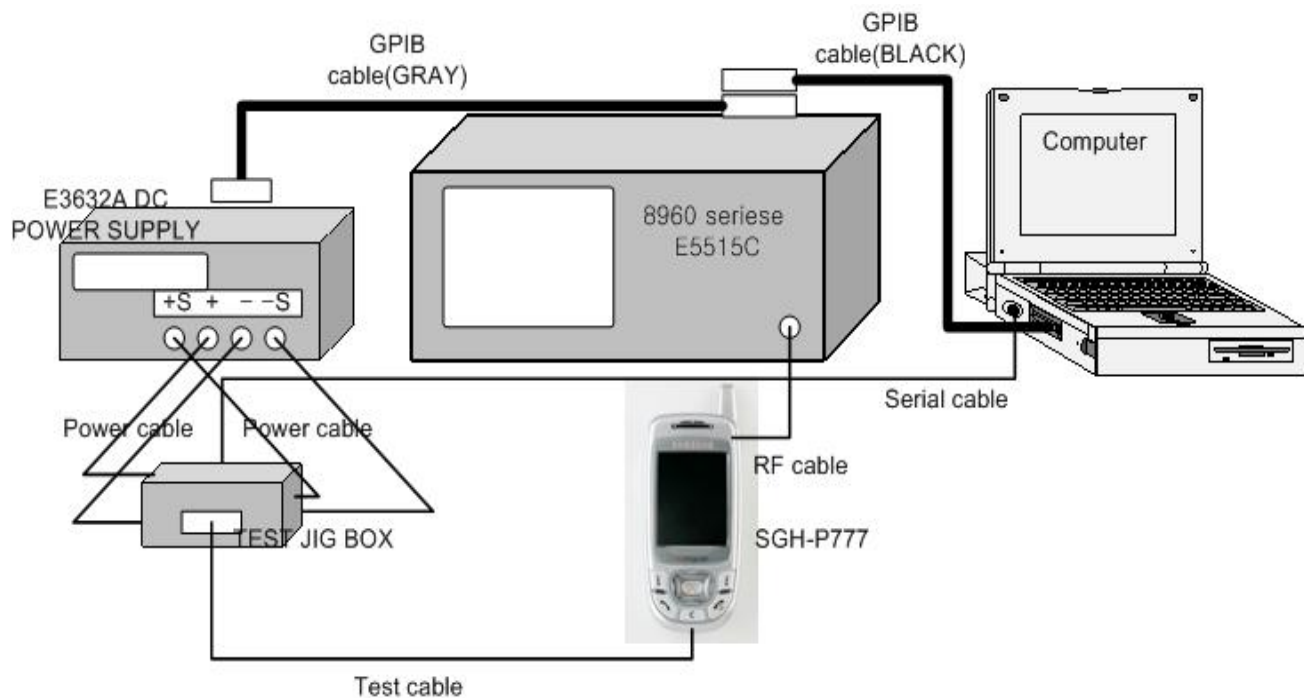

4. SGH-P777 Test Command & Test Procedure

1. Calibration Equipment

- HP 8960
- DC Power Supply
- Test Jig
- Configuration



2. Calibration Program

- Samsung internal software

3. Tx Power Tune up Procedure

- GMSK

1) Procedure:

- a. Calibration equipment HP8960 and the cell phone are connected through RF cable.
- 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.

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

3) 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)

4) Accuracy

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

5) TX ramp mask specification applied to the calibration program:

- 8PSK

1) Procedure:

- a. Calibration equipment HP8960 and the cell phone are connected through RF cable.
- 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 8 level is 27 dBm).
- c. Activate phone in Cont_8psk_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.

2) Target value is defined according to the value of EGPRS specification.
See the TX power level definition table below.

3) Target values of the peak level of the phone are set normally in conducted mode

- GSM 8 level : 27dBm
- DCS 2 level : 26dBm
- PCS 2 level : 26dBm (Tolerance : -2dB ~ +1dB)

4) Accuracy

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

5) TX ramp mask specification applied to the calibration program:

