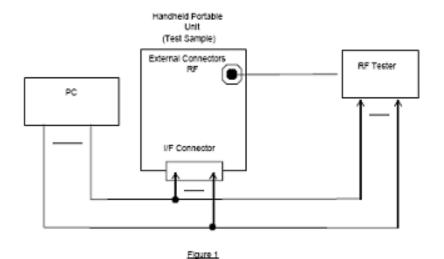
## **Tune up Procedure**

#### Tune up Procedure



#### Adjustment of RF Output Power

- (1) The test equipment setup as shown in Figure 1.
- (2) Operation of PC adjusts equipment.
  - 1) Set GSM1900 Band.
  - 2) Set Channel 0661.
  - TX ON.
  - 4) Adjust the power level to 29dBm (Power control level; PCL = 0) by PA DAC value.
  - Repeat 4) for 15 times, and adjust the power level to 28, 25, 24, 22, 20, 18, 16, 14, 12, 10, 8, 6,
    4, 2, 0 dBm ( PCL = 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 ).
  - 6) Make 16 Ramp-Up / Ramp-Down data from the adjustment value of (5) and (6).
  - 7) Data of 5) and 6) is write to a memory.

注: 调节程序里主要从研发阶段如何实现调节产品功率、频率等其他功能方面来进行闸 述。

### Specific Operating Power Range:

Power Class 1;

| Power Control Level 5  | +33dBm +0.3dB/-0.3dB |
|------------------------|----------------------|
| Power Control Level 6  | +31dBm +2.0dB/-2.0dB |
| Power Control Level 7  | +29dBm +2.0dB/-2.0dB |
| Power Control Level 8  | +27dBm +2.0dB/-2.0dB |
| Power Control Level 9  | +25dBm +2.0dB/-2.0dB |
| Power Control Level 10 | +23dBm +2.0dB/-2.0dB |
| Power Control Level 11 | +21dBm +2.0dB/-2.0dB |
| Power Control Level 12 | +19dBm +2.0dB/-2.0dB |
| Power Control Level 13 | +17dBm +2.0dB/-2.0dB |
| Power Control Level 14 | +15dBm +2.0dB/-2.0dB |
| Power Control Level 15 | +13dBm +2.0dB/-2.0dB |
| Power Control Level 16 | +11dBm +2.0dB/-2.0dB |
| Power Control Level 17 | +9dBm +2.0dB/-2.0dB  |
| Power Control Level 18 | +7dBm +2.0dB/-2.0dB  |
| Power Control Level 19 | +5dBm +2.0dB/-2.0dB  |

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# 1) Frequency Distribution

| GSM 850           | EGSM900   | DCS1800   | PCS1900  |
|-------------------|---|---|--|
| 824-849MHZ        | 880-915MHZ  | 1710-1785MHZ  | 1850-1910MHZ   |
| 869-894MHZ        | 925-960MHZ  | 1805-1880MHZ  | 1930-1990MHZ   |
| mber:128-251      | 1-124   | 512-885   | 512-810  |
| 45MHZ             | 45MHZ   | 95MHZ   | 80MHZ  |
| ferential: 3      | 3   | 3   | 3  |
| 270.833kbit       | 270.833kbit   | 270.833kbit   | 270.833kbit  |
| 4.615ms           | 4.615ms   | 4.615ms   | 4.615ms  |
| 576.9us           | 576.9us   | 576.9us   | 576.9us  |
| 3.692us           | 3.692us   | 3.692us   | 3.692us  |
| 200KHZ            | 200KHZ  | 200KHZ  | 200KHZ   |
| 8                 | 8   | 8   | 8  |
| GMSK              | GMSK  | GMSK  | GMSK   |
| 32.10dBm±0.5dB    | 32.10dBm±0.5dE  | 3 24.60dBm±0.5dB  | 24.60dBm±0.5dB   |
| $3.3 \mathrm{mW}$ | $3.3 \mathrm{mW}$   | $1 \mathrm{mW}$   | $1 \mathrm{mW}$  |
| $50 \Omega$       | $50\Omega$  | $50 \Omega$   | $50 \Omega$  |
|                   | 824-849MHZ<br>869-894MHZ<br>mber:128-251<br>45MHZ<br>ferential: 3<br>270.833kbit<br>4.615ms<br>576.9us<br>3.692us<br>200KHZ<br>8<br>GMSK<br>32.10dBm±0.5dB<br>3.3mW | 824-849MHZ 880-915MHZ 925-960MHZ 925-960MHZ 925-960MHZ 925-960MHZ 925-960MHZ 1-124 45MHZ 45MHZ 45MHZ 45MHZ 45MHZ 3 270.833kbit 4.615ms 4.615ms 576.9us 576.9us 3.692us 200KHZ 8 GMSK 32.10dBm±0.5dB 3.3mW 3.3mW | 824-849MHZ    880-915MHZ    1710-1785MHZ      869-894MHZ    925-960MHZ    1805-1880MHZ      mber:128-251    1-124    512-885      45MHZ    45MHZ    95MHZ      Gerential: 3    3    3      270.833kbit    270.833kbit    270.833kbit      4.615ms    4.615ms    4.615ms      576.9us    576.9us    576.9us      3.692us    3.692us    3.692us      200KHZ    200KHZ    200KHZ      8    8    GMSK      32.10dBm±0.5dB    3.3mW    3.3mW      1mW |