

Tune up Procedure

Test configuration of Equipment under test

The EUT was tested under all applicable modulation which were CDMA, TDMA and GSM.

All tests were performed at Low, Middle and High channel except for Occupied bandwidth testing.

During the test, the RF output of the EUT was connected to the Power meter or Spectrum Analyzer.

The Input of the EUT was connected to the Signal Generator (E4438C).

All tests were performed just before at the shutdown point (to Reverse), Auto Gain Control point (to Forward).

The Radiated emission was estimated from 30MHz ~ 10GHz.

Test Setup:

1) Getting start

- The EUT's input was directly connected to the Signal Generator.
- The EUT's output was connected to the Spectrum Analyzer through the attenuator.
- EUT Power on.
- Wait the EUT to check the isolation.
- Set the modulation of the Signal Generator.
- Signal Generator power on and adjust the output level.
- Set the RBW and VBW and other setting of the Spectrum Analyzer.

2) Modulation type by each test item

- CDMA, TDMA, GSM : RF Output power, Occupied bandwidth, Spurious Emissions and Antenna Terminals, Band-edge test
- CW : Radiated spurious emission test

3) Spectrum RBW and VBW setting by each modulation

- CDMA set RBW and VBW with 30KHz.
- TDMA set RBW and VBW with 300Hz.
- GSM set RBW and VBW with 3KHz.

4) EUT Gain and Signal Generator output level

- During the all test, The EUT gain was 50dBm and Signal Generator's output level was approximately from -45.1dBm to -38.5dBm.