

3. Test Results

3.1 RADIATED EMISSION MEASUREMENT

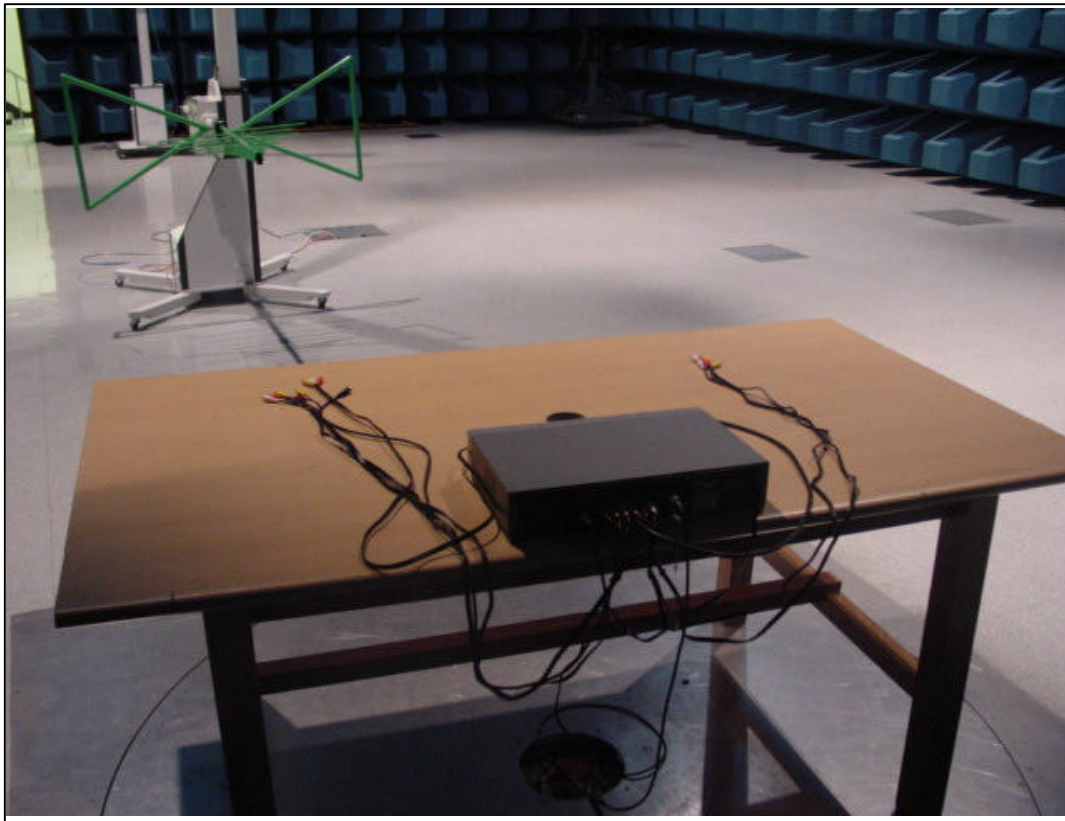
3.1.1 Test Procedure

Configure the EUT System in accordance with ANSI C63.4-1992 section 8 and 12.2. Power cords for the EUT System are connected to the receptacle on the ground plane. The output ports are connected to the cable provided with the device and the ending port of the cable are terminated in the proper impedance.

To find out the maximum emission, change the position of the cable, and the EUT operation mode under normal usage of the EUT.

The spectrum analyzer are scanned from 30MHz to 1,000MHz in channel 3 and 4.

3.1.2 Setup Photograph



3.2 AC POWERLINE CONDUCTED EMISSION MEASUREMENT

3.2.1 Reference Rule and Specification

FCC Rule Part 15, Section 15.107(a)

3.2.2 Test Procedure

- 1) Configure the EUT System in accordance with ANSI C63.4-1992 section 7 and 12.2. Connect the EUT's AC line cord to the EUT port of LISN.
- 2) All input terminals are terminated in the proper impedance.
The output ports are connected to the cable provided with the device and the ending port are terminated in the proper impedance.
- 3) Using a calibrated coaxial cable, the TEST RECEIVER is connected to the measuring port of the LISN for EUT. To the find out an EUT condition procedures the maximum emission, the position of cables, EUT operations mode are the position of cables, EUT operations mode are checked under normal usage of EUT.
Then, the emission are scanned from 0.15MHz to 30MHz relative to the limit are recorded.

3.2.3 Setup Photograph



3.3 OUTPUT SIGNAL LEVEL MEASUREMENT

3.3.1 Test Procedure

Configure the EUT System in accordance with ANSI C63.4-1992 section 12.2. The RF output terminal is connected to the spectrum analyzer through the matching transformer with a calibrated 75 ohms coaxial cable. Then, the RF output signal level is measured under the EUT condition produces the maximum signal level.

3.3.2 Setup Photograph



3.4 OUTPUT TERMINAL CONDUCTED SPURIOUS EMISSION MEASUREMENT

3.4.1 Test Procedure

The EUT system and measuring instrument are set up in the same manner of the output signal measurement.

The spectrum was scanned from 30MHz to more than 4.6MHz below the visual carrier frequency, and from more than 7.4MHz above the visual carrier frequency to 1000MHz.

Then, the significant spurious emissions are measured at the output terminal.

3.4.2 Setup Photograph



3.5 ANTENNA TRANSFER SWITCH ISOLATION MEASUREMENT

3.5.1 Test Procedure

Configure the EUT System in accordance with ANSI C63.4-1992 section 12.2.

The RF output terminal is terminated in the proper impedance.

The ANT input terminal is connected to the spectrum analyzer through the matching transformer with a calibrated 75 ohms coaxial cable.

Then, the RF output leakage level is measured under the EUT condition produces the maximum signal level.

3.5.2 Setup Photograph

