

GENERAL INFORMATION REQUIREMENTS

Paragraph 2.983(a)

Name of Applicant: Symbol Technologies, Inc.

Address of Applicant: 1 Symbol Plaza
Holtsville, NY 11742

Name of Manufacturer: Symbol Technologies, Inc

Address of Manufacturer: 1101 Lakeland Ave
Bohemia, NY

Paragraph 2.983(b)

Equipment
Identification: **FCC ID: H9PPPT2733**

NOTE: This is a change in identification of presently authorized equipment. This device is presently authorized under FCC ID:NBZNRM6831

Only those in which the original test results could differ are reported herein, Namely:

2.1046 RF Power Output (ERP method)

2.1053 Field Strength of Spurious Radiation

In addition SAR measurements were taken in order to comply with the RF safety requirements. Please refer to RF Exposure exhibit for a full description of SAR testing and results.

Paragraph 2.1046

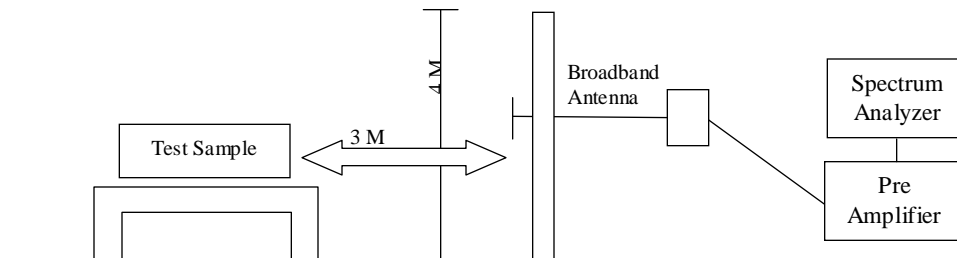
Power Output, Effective Radiated Power

POWER OUTPUT, EFFECTIVE RADIATED POWER (Para. 2.1046)

A. Measurement Procedure:

The transmitter under test was placed on an 80 cm. high non metallic table on the Open Air Test Site with it's antenna polarized vertically. A receive dipole antenna was placed three meters away from the transmitter. The turntable was rotated 360 degrees and the receive antenna was raised and lowered from 1 to 4 meters until a maximum reading was obtained. This reading was recorded. The transmitter under test was replaced with a dipole and signal generator. The signal generator was set to the frequency of the transmitter under test. The level of the signal generator was increased until the level was equal to that previously measured. The required input level from the signal generator in dBm was recorded and converted into milliwatts. This was the Effective Radiated Power of the transmitter. These measurements were recorded for the vertical and horizontal polarizations of the antenna.

Setup of the test is shown below:



B. Test Results:

The results for the above test are submitted as a separate attachment named ERP.pdf.

Para. 2.1053

Field Strength of Spurious Radiation

FIELD STRENGTH OF SPURIOUS RADIATION (PARA 2.1053)

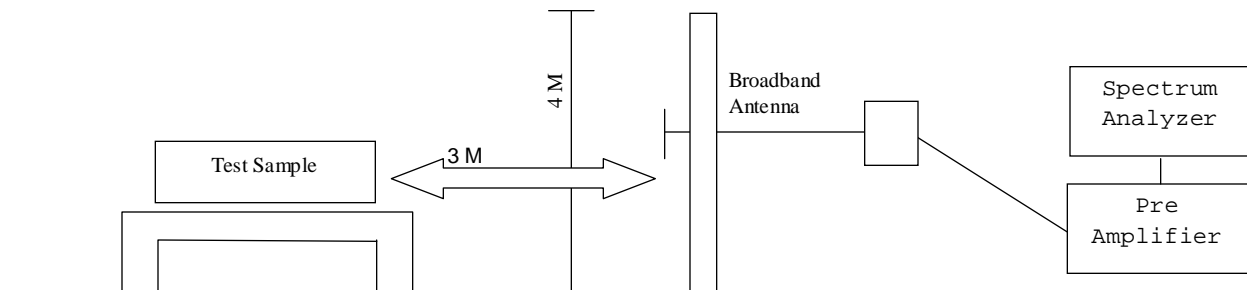
A. Measurement Procedure:

The test sample was then placed on an 80cm high wooden test stand which was located three meters from the test antenna on an FCC listed test site. The frequency range scanned was from the lowest frequency generated by the test sample to its tenth harmonic. In order to maximize the level of each emission observed from the test sample, the broadband antenna was tuned to the frequency of each emission and the test sample was rotated 360 degrees. To further maximize the each emission observed, the test antenna was both horizontally and vertically polarized, and then was raised and lowered from one to four meters from the ground plane. The limits for all of the spurious emissions was calculated utilizing the measured output power and the following equation:

$$\text{Limit } \langle \text{dB:V/M} \rangle = 20 \log \left[\left\{ (49.2 \times P_T)^{1/2} / 3 \right\} \times 10^6 \right] - (43 + 10 \log P_T)$$

The above procedure was performed at the lower, middle and upper frequencies of the device's range.

Setup of the test is shown below:



B. Test Results:

The results for the above test are submitted as a separate attachment named spurious case.doc.