

5.3 § 95.1115(b) Out of Band Emissions(Radiated)

Test Procedure

EUT was placed on a platform of nominal size, 1m by 1.5m, raised 80cm above the conducting ground plane. I/O cables that were connected to the peripherals were bundled in center. They were folded back and forth forming a bundle 30cm to 40cm long and were hanged 40cm height to the ground plane. Test was made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna was varied in height above the conducting ground plane to obtain the maximum signal strength.

The Radiated Electric Field Strength intensity has been measured on an open test site with a ground plane and at a distance of 3m.

The measuring antenna height was varied between 1 to 4m and EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity.

The measurements were performed for both vertical and horizontal antenna polarization.

EUT emission levels were compared when the EUT antenna position was vertical polarization and horizontal polarization. It was opened under transmitting mode.

Radiated Spurious emissions

The result was also satisfied the general limits specified in Sec.95.1115(b).

To determine the level of band-edge spurious, we use the following procedure:

Set the resolution bandwidth to 1 kHz in the peak detector mode. Measure the maximum level of the in-band channel closest to the band edge and the maximum level of the out-of-band emissions close to the same band edge. Determine the ratio of the in-band signal to the out-of-band emissions. Then, measure the level of the in-band channel in CISPR quasi-peak mode with 120 kHz bandwidth. Using the ratio obtained, we calculate the equivalent level of the out-of-band emissions to determine compliance with the limits.

The emission tests, except for the band edge, were performed with the quasi-peak mode of the test receiver.
(Bandwidth:120kHz)

Measurement range : 30MHz to 1000MHz CISPR QP Detector, IF BW 120kHz
: 1GHz to 7GHz AV Detector

Test data : APPENDIX Page27 to 32 (30 –1000MHz)
: APPENDIX Page33 to 38 (1 – 7GHz)
: APPENDIX Page39 to 40 (Band Edges:608MHz/614MHz, Restricted band Charts)

Photographs of test setup : Page14

Test result : Pass

**Test instruments : KCC-20/21/22/23/29,KCC-D1/D2,KCC-D3,KBA-02,KLA-02,KHA-02,
KAF-03,KAF-04,KAT6-03,KSA-02,KTR-04,KOTS-02**

A-pex International Co., Ltd.

YAMAKITA LAB.

907 Kawanishi, Yamakita-machi, Ashigarakami-gun, Kanagawa-ken, 258-0124 JAPAN

Telephone: int +81 465 77 1011

Facsimile: int +81 465 77 2112

MF060b(23.04.02)