

## 5.6 Spurious emissions radiated

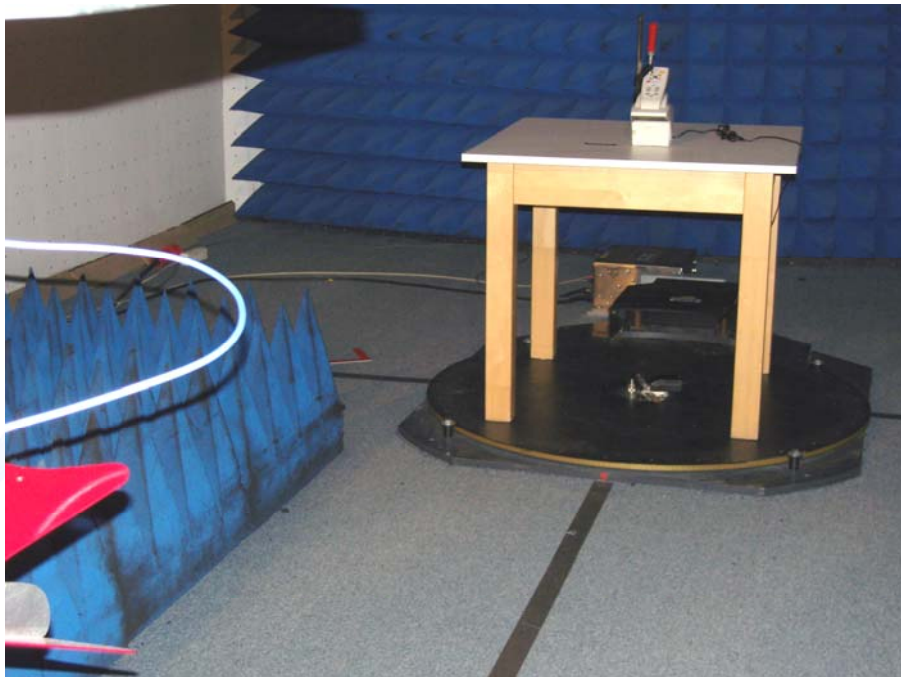
For test instruments and accessories used see section 6 Part SER 3.

### 5.6.1 Description of the test location

Test location: Anechoic Chamber A2  
Test distance: 3 metres

### 5.6.2 Photo documentation of the test set-up

Anechoic chamber



### 5.6.3 Applicable standard

According to FCC Part 15, Section 15.247(d):

In any 100 kHz bandwidth outside the frequency bands 2400 – 2483.50 MHz and 5725 – 5850 MHz, the digitally modulated radio frequency power that is produced by the intentional radiator shall be at least 20 dB below the highest level of the desired power.

### 5.6.4 Description of Measurement

For the radiated measurement up from 1 GHz to maximum frequency as specified in Section 15.33, a spectrum analyzer and appropriate linear polarized antennas are used. The EUT is placed on a 1.0 X 1.5 m non-conducting table 80 cm above the ground plane. The set up of the EUT will be in accordance to ANSI C63.4. To locate maximum emissions the EUT was rotated 360 degrees in the fully anechoic chamber. The measurement scan is made in horizontal and vertical polarization of the antenna. For testing above 1 GHz, if the emission level of the EUT in peak mode complies with the average limit is 20 dB lower, then testing will be stopped and peak values of the EUT will be reported, otherwise, the emission will be measured in average mode again and reported.

Spectrum analyzer settings:

RBW: 1 MHz for  $f > 1$  GHz

VBW: 3 MHz for  $f > 1$  GHz

Detector: Max. peak

Sweep: Auto

Trace: Max. hold

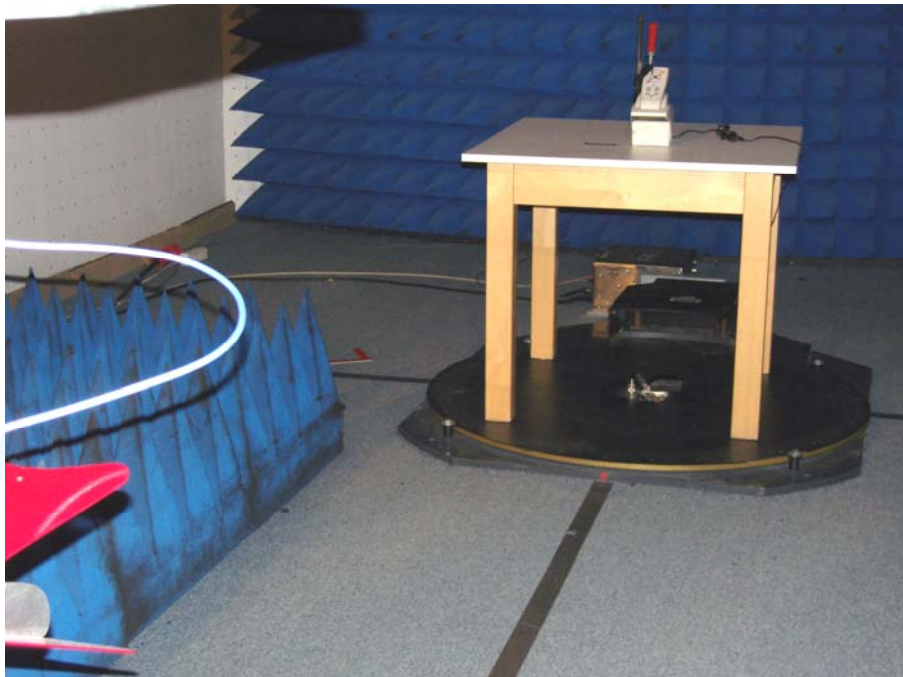
## 5.7 Band edge compliance

For test instruments and accessories used see section 6 Part **SER3**.

### 5.7.1 Description of the test location

Test location: Anechoic Chamber A2  
Test distance: 3 metres

### 5.7.2 Photo documentation of the test set-up



### 5.7.3 Applicable standard

According to FCC Part 15, Section 15.205(a):

In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limit specified in Section 15.209(a).

### 5.7.4 Description of Measurement

The band edge was measured radiated. The span of the spectrum analyzer was set wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products which fall outside of the authorized band of operation.

Spectrum analyzer settings:

RBW: 100 kHz

VBW: 100 kHz

Sweep: Auto

Detector function: Peak