

FCC ID:U9A277IWLAN-V210

## 5 TEST CONDITIONS AND RESULTS

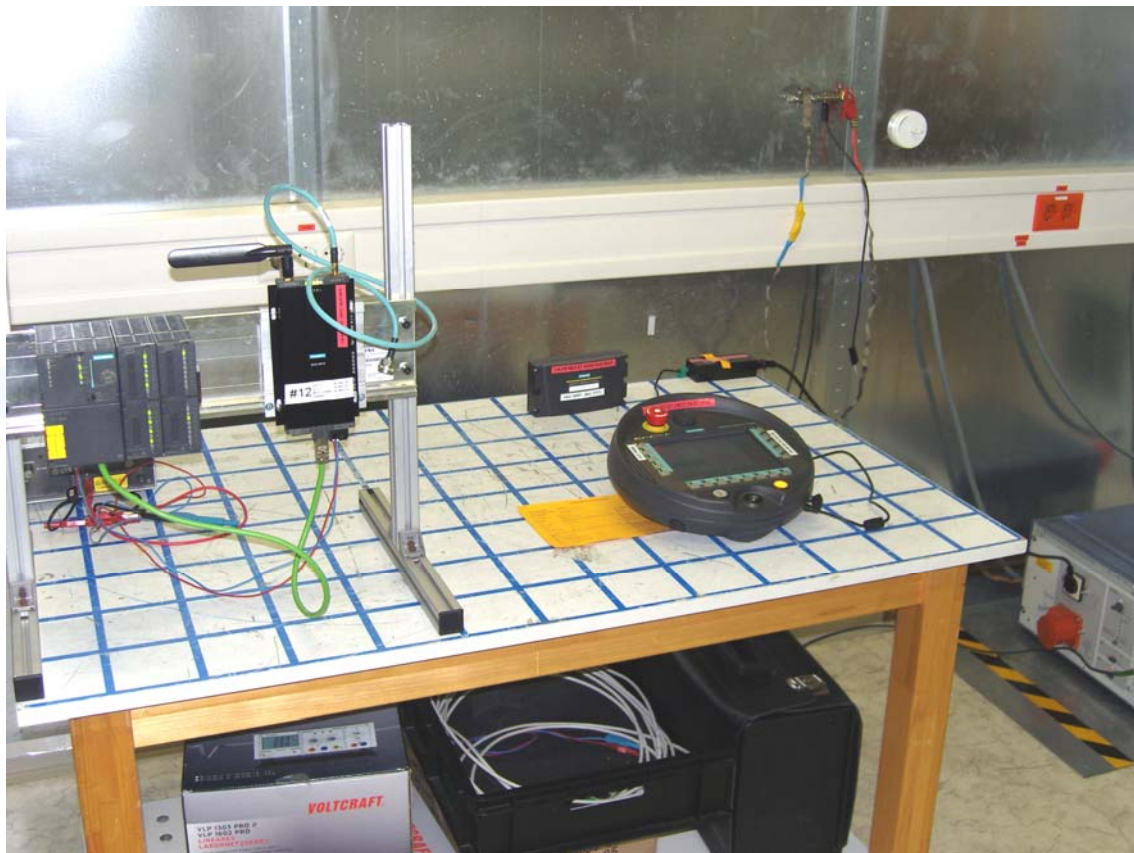
### 5.1 Conducted emissions

For test instruments and accessories used see section 6 Part A 4.

#### 5.1.1 Description of the test location

Test location:               Shielded Room S2

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



#### 5.1.3 Applicable standard

According to FCC Part 15C, Section 15.207(a):

Except as shown in paragraphs (b) and (c) of this Section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of Emission (MHz)	Conducted Limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

\* Decreases with the logarithm of the frequency

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### 5.4 Undesirable emissions

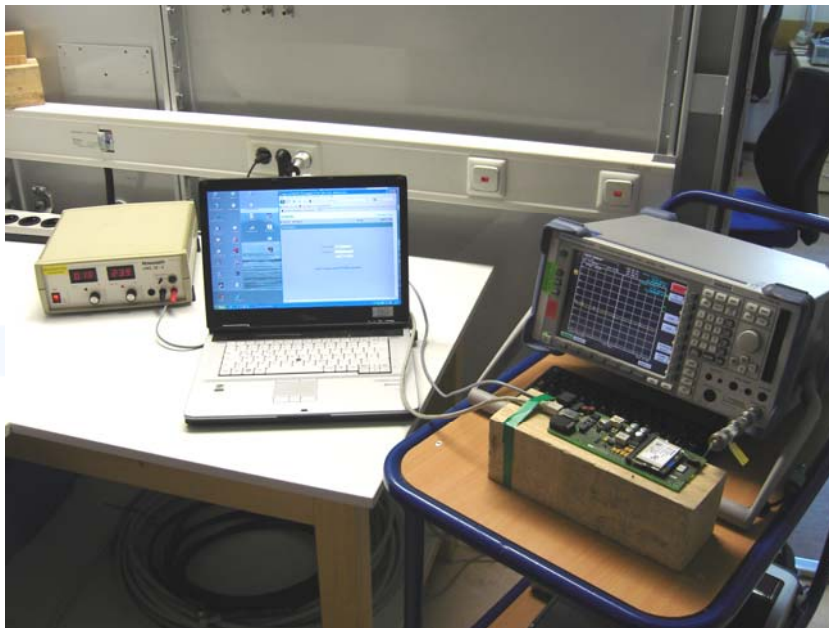
For test instruments and accessories used see section 6 Part **SEC 1-3, SER 1, SER 2 and SER 3.**

#### 5.4.1 Description of the test location

Test location: AREA 4  
Test location: OATS1  
Anechoic Chamber A2  
Test distance: 3 metres

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

Conducted measurements



Open area test site (9 kHz – 30 MHz)

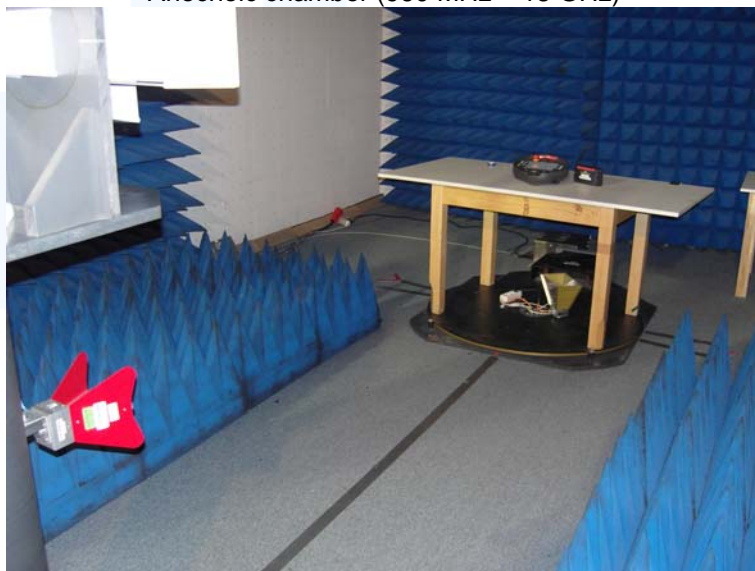


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Open area test site (30 MHz – 1000 MHz)



Anechoic chamber (960 MHz – 18 GHz)

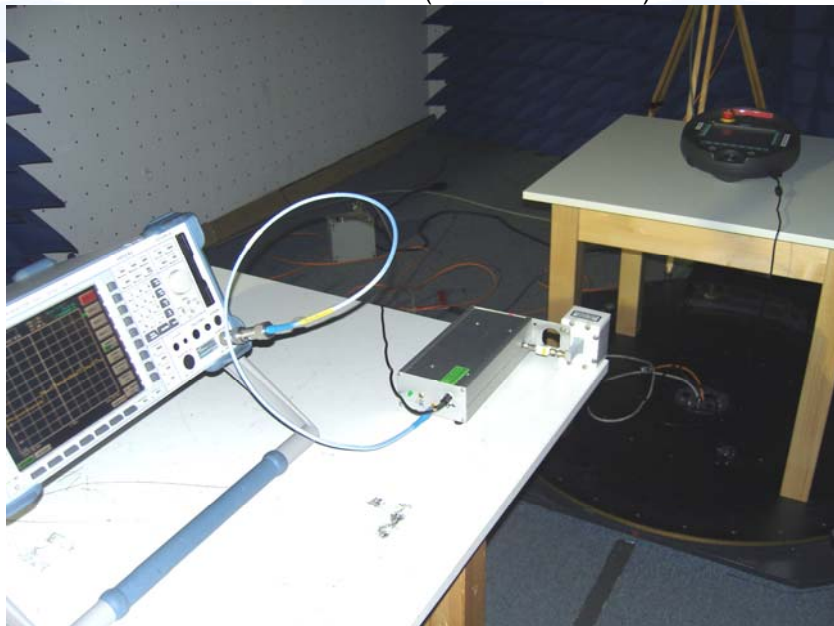


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Anechoic chamber (18 GHz – 30 GHz)



Anechoic chamber (30 GHz – 40 GHz)



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**5.9 Receiver spurious emissions**

For test instruments and accessories used see section 6 Part **SER 2** and **SER 3**.

**5.9.1 Description of the test location**

Test location: OATS1  
Anechoic Chamber A2

Test distance: 3 metres

**5.9.2 Photo documentation of the test set-up**

Open area test site



Anechoic chamber (960 MHz – 18 GHz)



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Anechoic chamber (18 GHz – 30 GHz)



**5.9.3 Applicable standard**

According to FCC Part 15 Subpart 15.109:  
Field strength of radiated emissions from unintentional radiator.

**5.9.4 Description of Measurement**

Radiated Spurious emissions from the EUT are measured with the procedure mentioned under item 4.4.3 and 4.4.4.

Spectrum analyser settings  $f > 960$  MHz:

Peak measurement: RBW: 1 MHz,

VBW: 1 MHz,

Sweep: Auto

AV measurement: RBW: 1 MHz,

VBW: 10 Hz,

Sweep: Auto

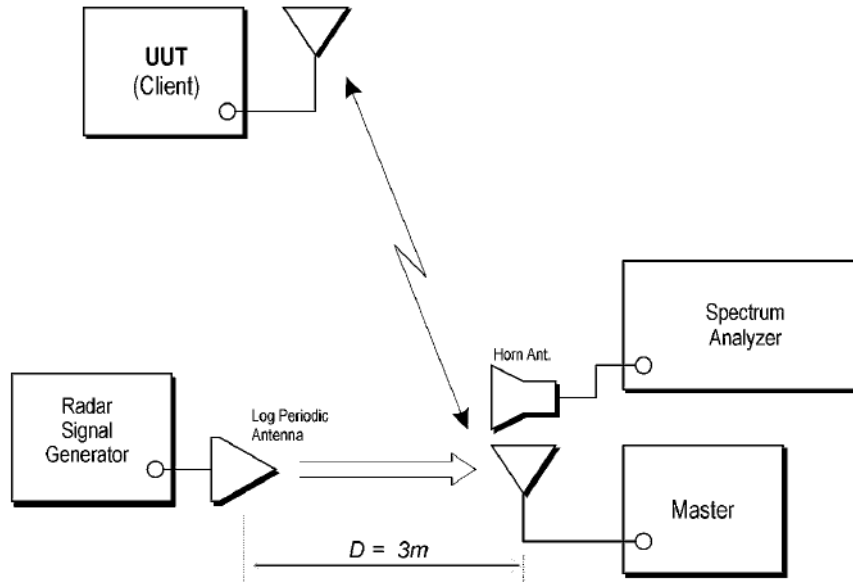
**5.9.5 Test result**

Frequency (MHz)	Detector	Analyzer reading		Correction (dB)	Result		Limit (dB $\mu$ V/m)	Delta (dB)
		hor (dB $\mu$ V/m)	vert (dB $\mu$ V/m)		hor (dB $\mu$ V/m)	vert (dB $\mu$ V/m)		
30 - 960	QP				<30	<30	---	---
960 - 28500	Pk				<54	<54	74	---
	AV	---	---		---	---	54	---

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**5.10.2 Test setup and conducted calibration diagram for client with injection at the master**

Test setup:



**5.10.3 Channel move time**

Requirement according to FCC Part 15 Subpart D, Section 15.407, (h)(2)(iii):  
The requirement for channel move time applies in both the master and the slave operational modes.

Table 4: DFS response requirement values (FCC 06-96)

Parameter	Value
<i>Non-occupancy period</i>	Minimum 30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<b>Channel Move Time</b>	<b>10 seconds, See Note 1.</b>
<b>Channel Closing Transmission Time</b>	<b>200 ms + an aggregate of 60 ms over remaining 10 s period. See Notes 1 and 2.</b>
<i>U-NII Detection Bandwidth</i>	Minimum 80% of the U-NII 99% transmission power bandwidth. See Note 3.

Note 1: The instant that the *Channel Move Time* and the *Channel Closing Transmission Time* begins is as follows:

- For the Short Pulse Radar Test Signals this instant is the end of the *Burst*.
- For the Frequency Hopping radar Test Signal, this instant is the end of the last radar *Burst* generated.
- For the Long Pulse Radar Test Signal this instant is the end of the 12 second period defining the *Radar Waveform*.

Note 2: The *Channel Closing Transmission Time* is comprised of 200 milliseconds starting at the beginning of the *Channel Move Time* plus any additional intermittent control signals required facilitating a *Channel* move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the *U-NII Detection Bandwidth* detection test, radar type 1 is used and for each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

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5.10.3.1 Photo documentation of the test set-up



5.10.3.2 Test result

Channel 132, with normal traffic:

