

TEST REPORT
of the accredited test laboratory

TÜV Nr.:M/FG-12/102

Applicant: AKG Acoustics GmbH
Lemböckgasse 21-25
A – 1230 Wien

Tested Product: Receiver for wireless microphone set

FCC-ID: V3TDSR70DUAL

Manufacturer: VTech Communications Ltd.
23/F, Tai Ping Industrial Centre, Block 1,
57 Ting Kok Road, Tai Po, N.T. Hong Kong

Output power / field strength: 85,1 mW eirp **power supply:** 100 – 240 VAC
50 – 60 Hz

Frequency range: 2412 - 2462 MHz **Channel separation:** 26 / 24 MHz

Standard: FCC: 47 CFR Part 15 (October 1, 2011 edition)
RSS-210 Issue 8, December 2010

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Medical Technology/
Communication
Technology/ EMC

Department:
Testing Body for
Communication
Technology/ EMC

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Deputy
Supervisor of EMC-laboratory:

Ing. Michael Emminger



25.01.2012

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checked by:

Ing. Stefan Matzner

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The results of this test report only refer to the provided equipment.

LIST OF MEASUREMENTS

The complete list of measurements called for in 47 CFR 15 and RSS-210 is given below.

SUBCLAUSE	PARAMETER TO BE MEASURED	PAGE
	Intentional Radiators	
	Test object data	3
2.1033	Number of channels and channel spacing	4
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TEST OBJECT DATA

General EUT Description

This digital audio receiver will be used for the reception of signals generated by wireless microphones. It is not only a receiver, but it has the capability for a two-way communication with the wireless microphones. It has no antenna connector, so all technical data were measured radiated.

2.1033 (c) Technical description

2.1033 (4) Type of emission: OFDM – Channel bandwidth 16 MHz – Channel spacing 26 / 24 MHz.

2.1033 (5) Frequency range: 2412; 2438 and 2462 MHz (channel center frequencies)

2.1033 (6) Power range and Controls: The maximum peak output power is 85,1 mW and there is no power regulation. There are two antennae used for MIMO and/or diversity operation.

2.1033 (7) Maximum output power rating: 85,1 mW eirp.

2.1033 (8) AC Voltage and Current: 100 – 240 V @ 50 – 60 Hz
maximum current consumption: 74 mA

RSS-135 This standard does not apply to:

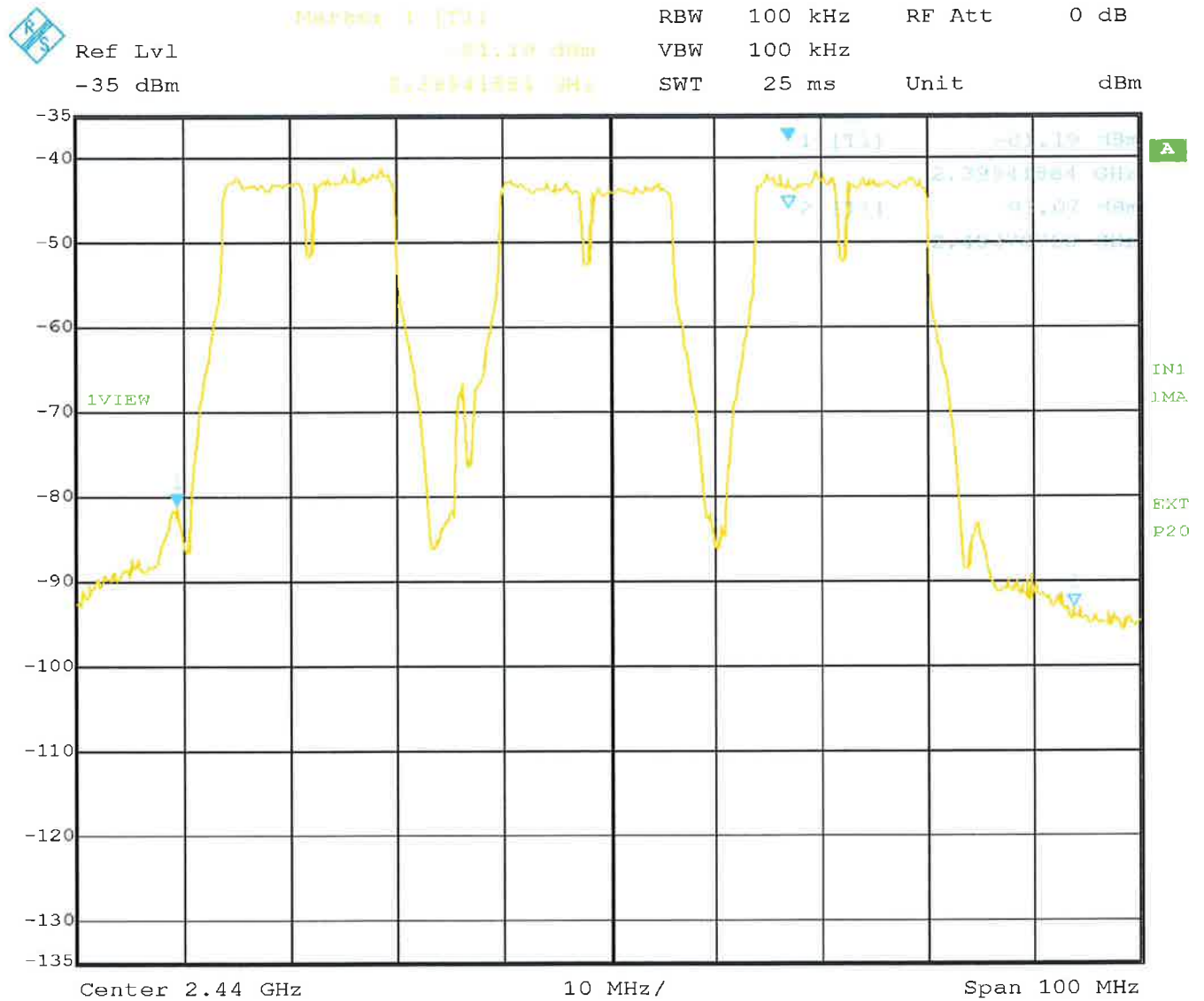
- 1.1.(a) a receiver that scans radio frequencies for the purpose of enabling its associated transmitter to avoid transmitting in an occupied frequency but which does not have the capability of decoding the message (e.g. converting it to audio voice) contained in the radio signal

Number of channels and channel spacing

§ 2.1033

Radiated Measurement

Rated output power: 85,1 mW



Date: 16.JAN.2012 11:25:23

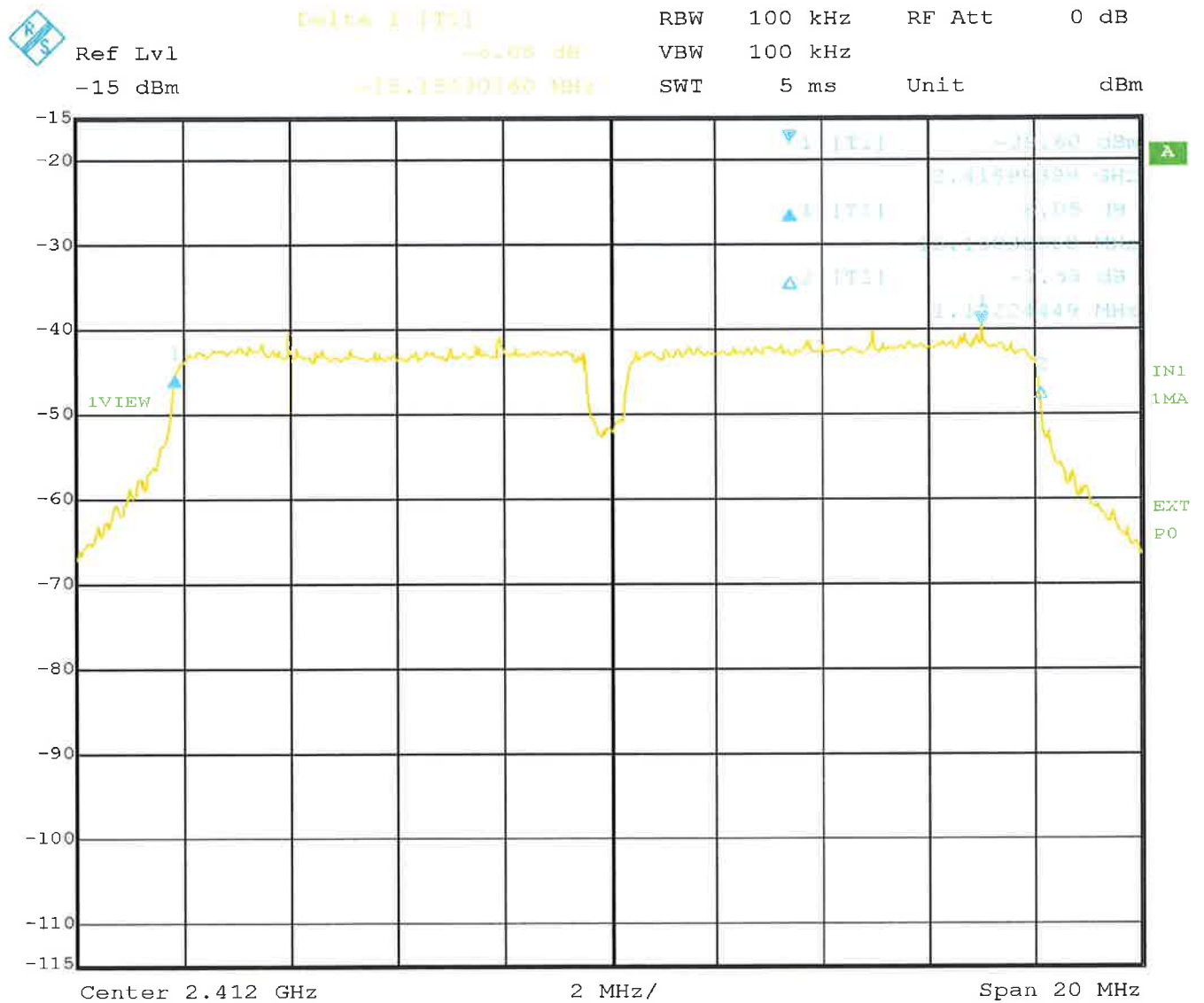
Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-126; NT-150; NT-207; NT-500; NT-520; NT-550

6dB Bandwidth

**§ 15.247(a)(2)
A8.2(a)**

Radiated Measurement

Rated output power: 85,1 mW Channel 0 (2412 MHz)



Date: 16.JAN.2012 11:28:45

6dB Bandwidth: 16,353 MHz

LIMIT SUBCLAUSE 15.247(e) – A8.2(b)

Under normal test conditons	6 dB Bandwidth at least 500 kHz
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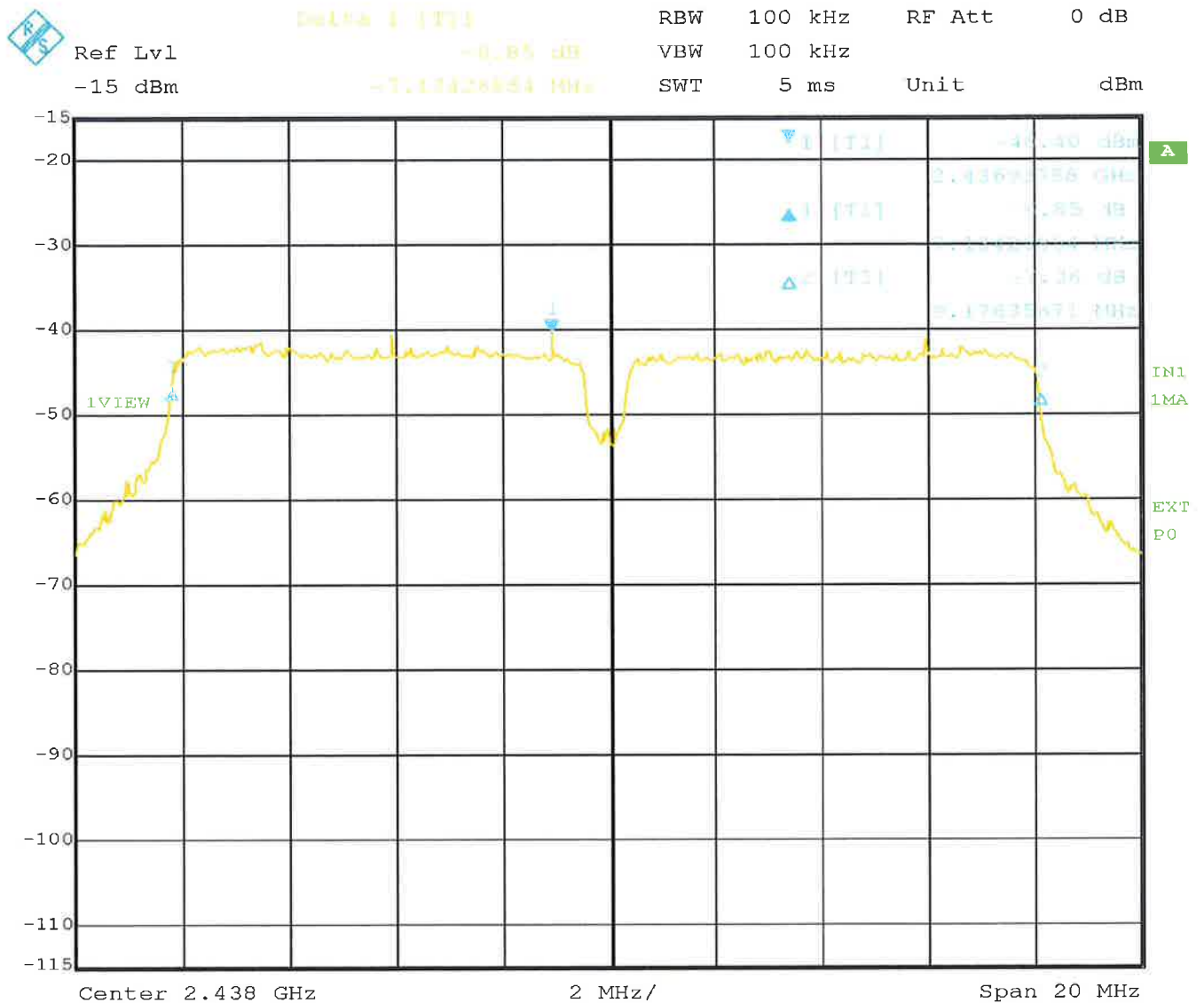
Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-126; NT-150; NT-207; NT-500; NT-520; NT-550

6dB Bandwidth

**§ 15.247(a)(2)
A8.2(a)**

Radiated Measurement

Rated output power: 85,1 mW Channel 1 (2438 MHz)



Date: 16.JAN.2012 11:31:23

6dB Bandwidth: 16,353 MHz

LIMIT SUBCLAUSE 15.247(e) – A8.2(b)

Under normal test conditons	6 dB Bandwidth at least 500 kHz
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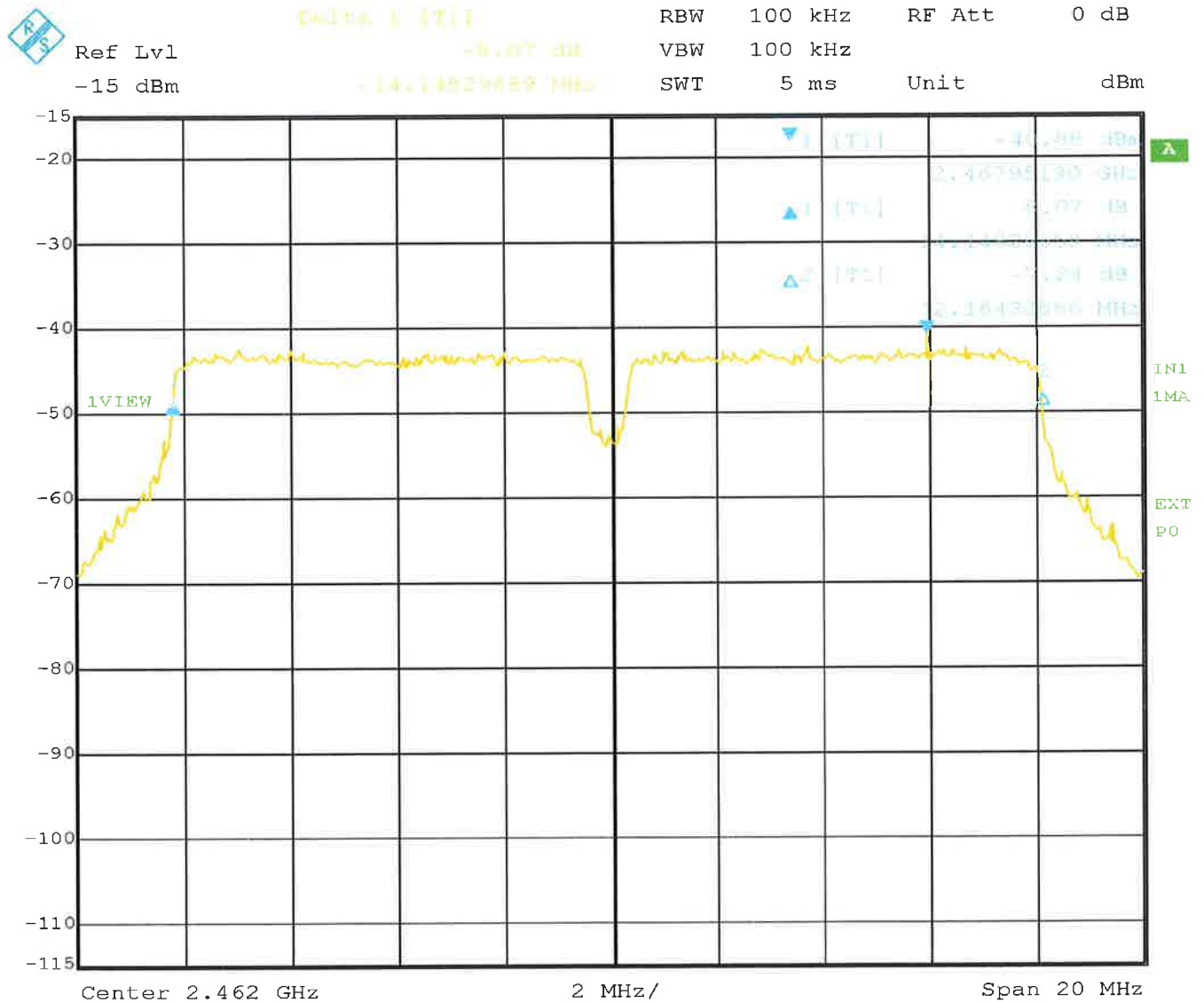
Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-126; NT-150; NT-207; NT-500; NT-520; NT-550

6dB Bandwidth

**§ 15.247(a)(2)
A8.2(a)**

Radiated Measurement

Rated output power: 85,1 mW Channel 2 (2462 MHz)



Date: 16.JAN.2012 11:33:14

6dB Bandwidth: 16,353 MHz

LIMIT SUBCLAUSE 15.247(e) – A8.2(b)

Under normal test conditons	6 dB Bandwidth at least 500 kHz
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Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-126; NT-150; NT-207; NT-500; NT-520; NT-550

Maximum Peak RF Power Output (EIRP)

**§ 15.247(b)(3)
A8.4(4)**

Radiated Measurement

Rated output power: 85,1 mW

Test conditions		Transmitter power (mW) (eirp)		
		2412 MHz	2438 MHz	2462 MHz
T _{nom} (26)°C	Antenna 0	58,9	56,2	72,4
	Antenna 1	57,5	85,1	63,1
Maximum deviation from rated output power under normal test conditions (dB)		-2,3	-0,7	-1,4
Measurement uncertainty		± 0,75 dB		

LIMIT

SUBCLAUSE 15.247(b)(3) – A8.4(4)

Under normal test conditons	1W conducted (4W eirp)
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Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-126; NT-150; NT-207; NT-500; NT-520; NT-550

Power spectral density (EIRP)

**§ 15.247(e)
A8.2(b)**

Radiated Measurement

Rated output power: 85,1 mW

Test conditions		Power spectral density (dBm) (eirp)		
		2412 MHz	2438 MHz	2462 MHz
T _{nom} (26)°C	Antenna 0	-14,3	-14,5	-13,3
	Antenna 1	-14,4	-12,8	-14,0
Measurement uncertainty		± 0,75 dB		

LIMIT SUBCLAUSE 15.247(e) – A8.2(b)

Under normal test conditons	+8dBm in any 3 kHz band
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Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-126; NT-150; NT-207; NT-500; NT-520; NT-550

Out-of-band Emission

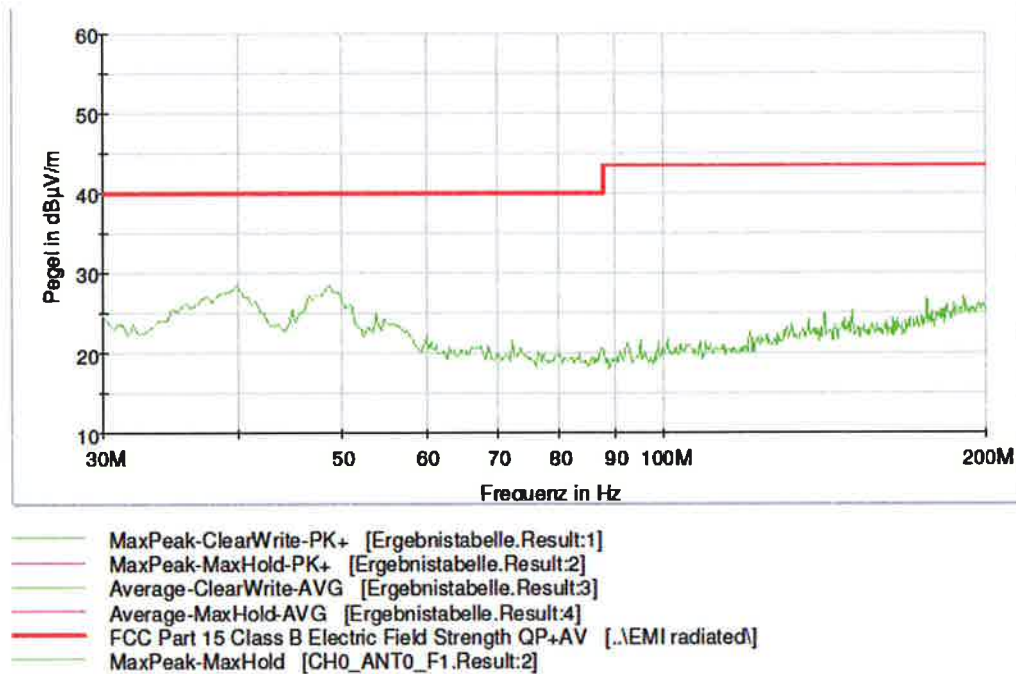
**§ 15.247(d)
A8.5**

Measurement with Peak-Detector:

Frequency: 2412 MHz – Antenna 0

DSR70DUAL_209

1 / 1



16.01.2012

13:10:21

LIMIT

SUBCLAUSE 15.247(d) – A8.5

In any 100 kHz bandwidth outside the frequency band in which the radio device is operating.	At least 20dB below the power in the 100 kHz bandwidth within the band that contains the highest level of the desired power.
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Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

Out-of-band Emission

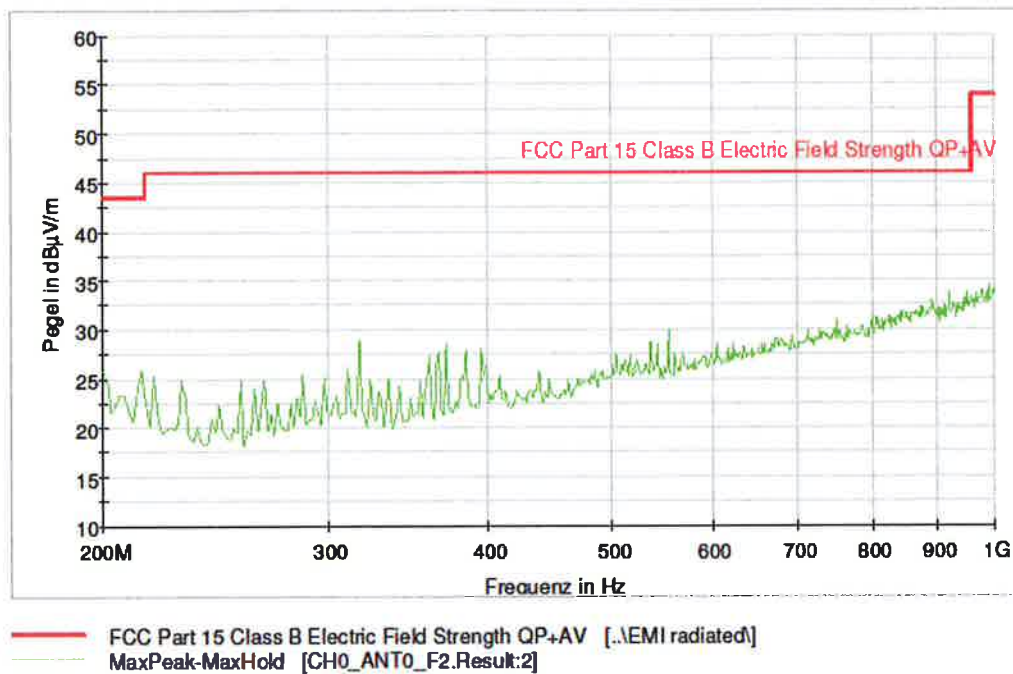
**§ 15.247(d)
A8.5**

Measurement with Peak-Detector:

Frequency: 2412 MHz – Antenna 0

DSR70DUAL_209

1/1



16.01.2012

13:10:21

LIMIT

SUBCLAUSE 15.247(d) – A8.5

In any 100 kHz bandwidth outside the frequency band in which the radio device is operating.

At least 20dB below the power in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

Out-of-band Emission

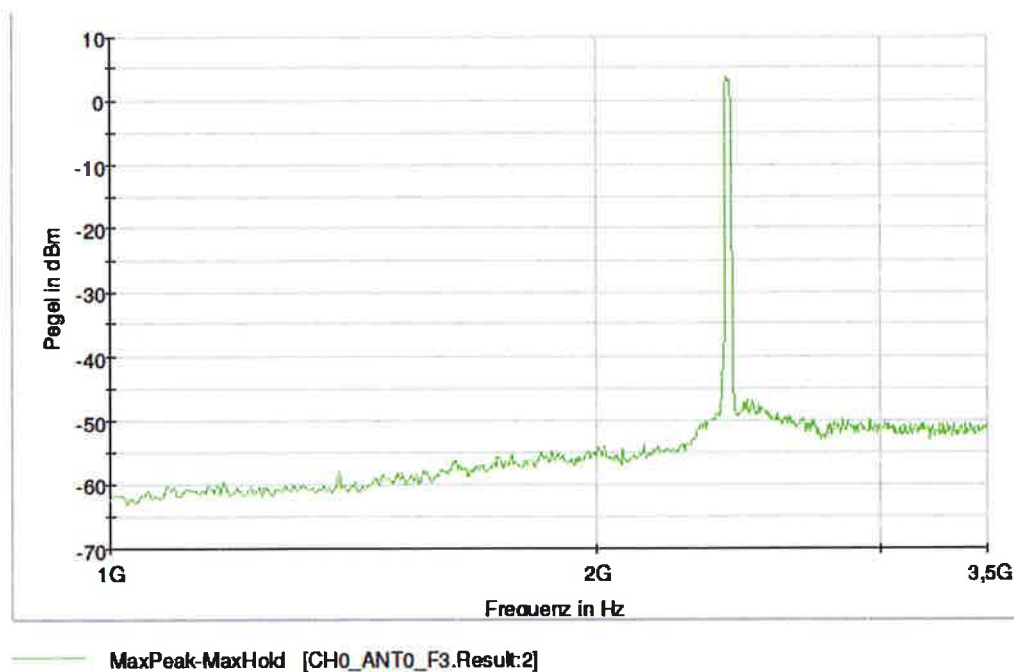
**§ 15.247(d)
A8.5**

Measurement with Peak-Detector:

Frequency: 2412 MHz – Antenna 0

DSR70DUAL_247

1 / 1



16.01.2012

12:22:18

LIMIT

SUBCLAUSE 15.247(d) – A8.5

In any 100 kHz bandwidth outside the frequency band in which the radio device is operating.	At least 20dB below the power in the 100 kHz bandwidth within the band that contains the highest level of the desired power.
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Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

Out-of-band Emission

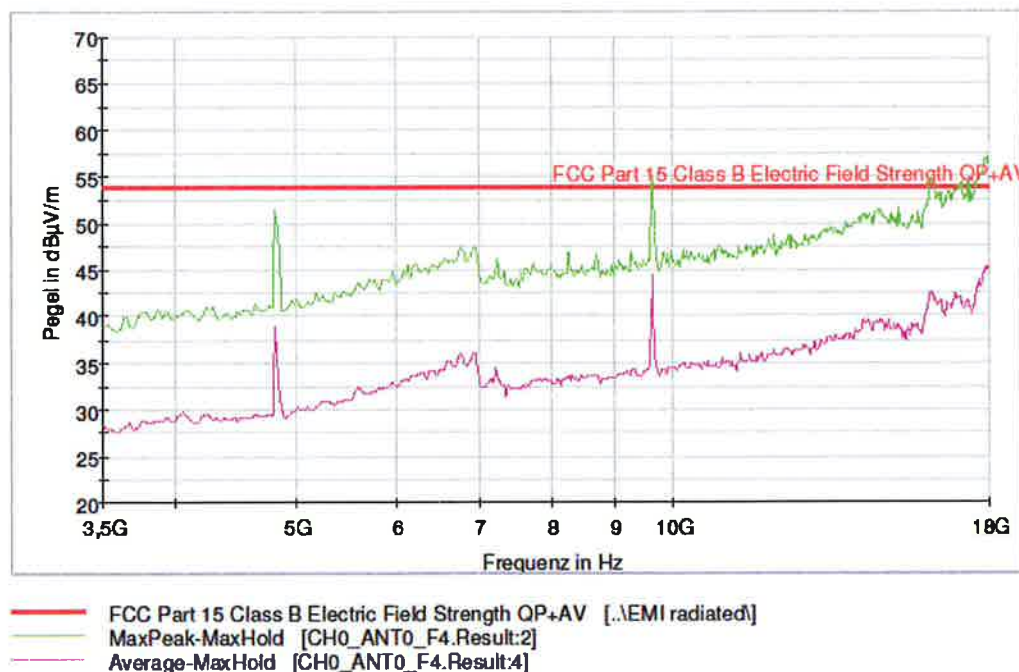
**§ 15.247(d)
A8.5**

Measurement with Peak-Detector (green line):

Frequency: 2412 MHz – Antenna 0

DSR70DUAL_209

1 / 1



16.01.2012

13:10:21

LIMIT SUBCLAUSE 15.247(d) – A8.5

In any 100 kHz bandwidth outside the frequency band in which the radio device is operating.	At least 20dB below the power in the 100 kHz bandwidth within the band that contains the highest level of the desired power.
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Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

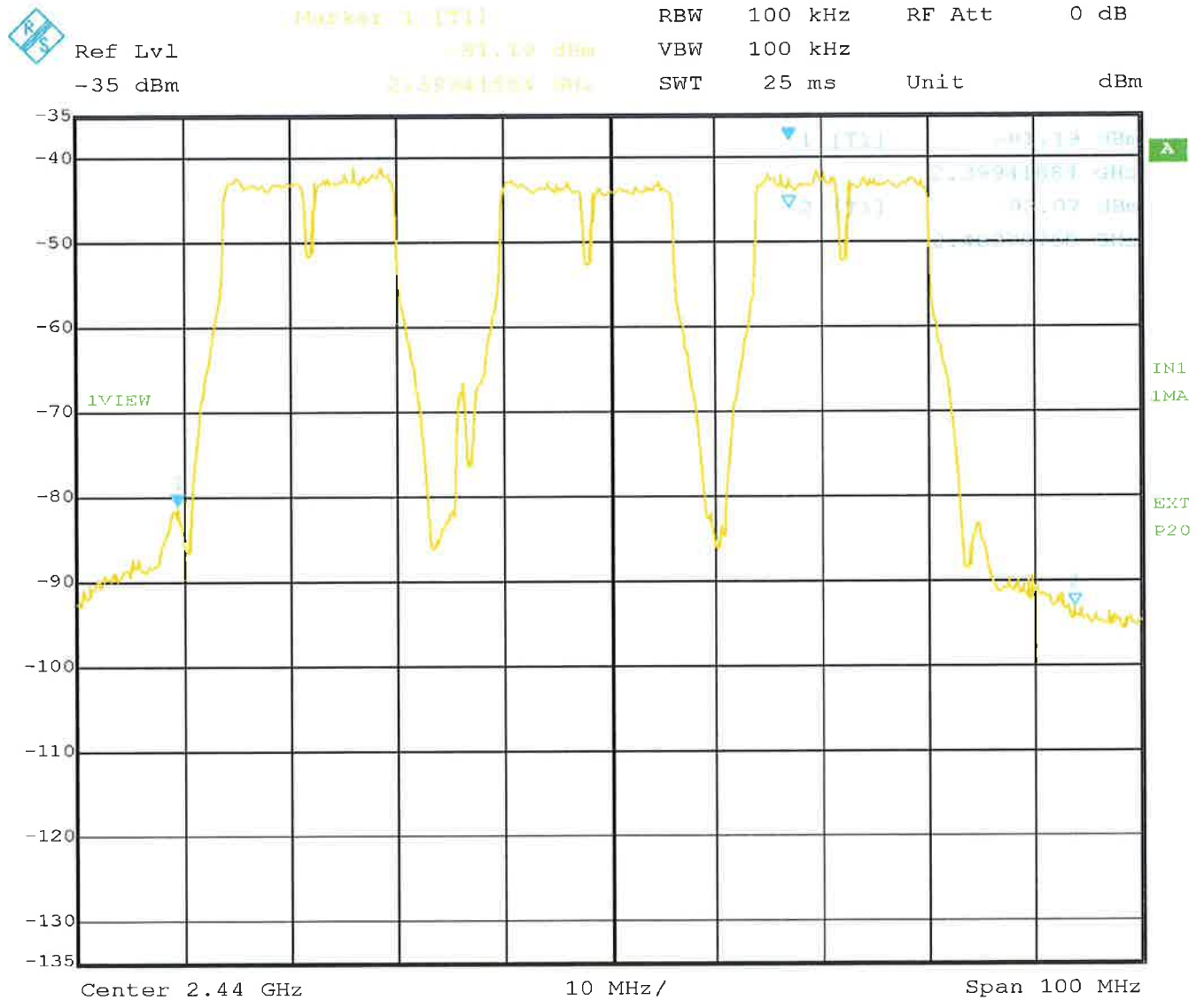
Although the measurements were made up to the tenth harmonic, the curve above is ending at 18 GHz. The tests above 18 GHz are not automatized and therefore we were not able to plot the spectrum analyzer display. Above 18 GHz no emission above noise level were found.

Out-of-band Emission

**§ 15.247(d)
A8.5**

Measurement with Peak-Detector:

Frequency: 2412 MHz – Band Edge measurement



Date: 16.JAN.2012 11:25:23
LIMIT SUBCLAUSE 15.247(d) – A8.5

In any 100 kHz bandwidth outside the frequency band in which the radio device is operating.	At least 20dB below the power in the 100 kHz bandwidth within the band that contains the highest level of the desired power.
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Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

Out-of-band Emission

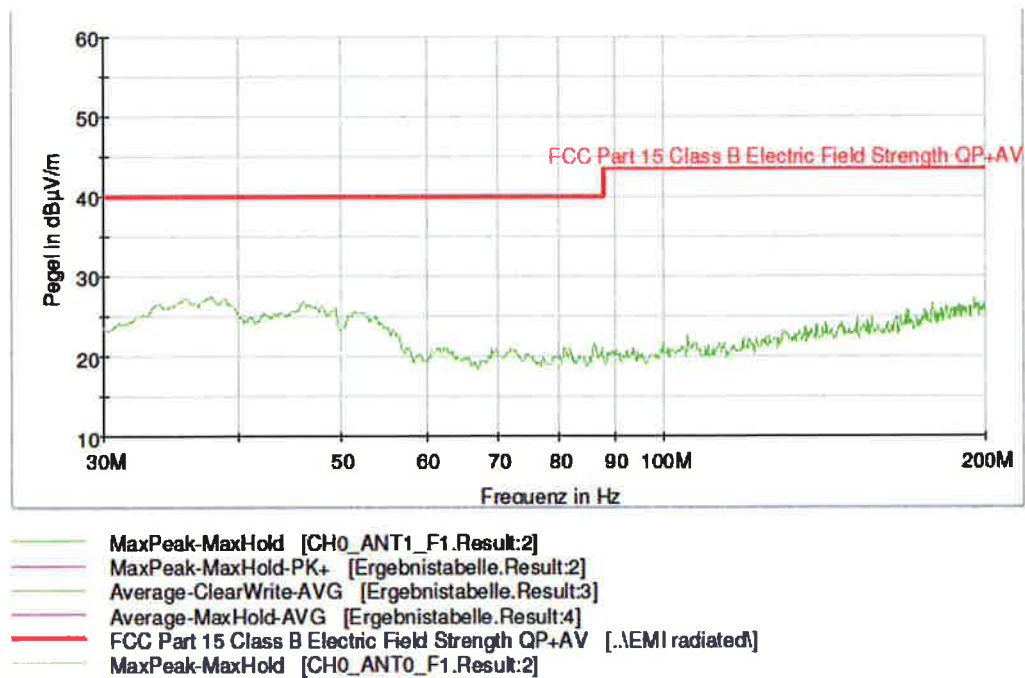
**§ 15.247(d)
A8.5**

Measurement with Peak-Detector:

Frequency: 2412 MHz – Antenna 1

DSR70DUAL_209

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13:10:21

LIMIT

SUBCLAUSE 15.247(d) – A8.5

In any 100 kHz bandwidth outside the frequency band in which the radio device is operating.	At least 20dB below the power in the 100 kHz bandwidth within the band that contains the highest level of the desired power.
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Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

Out-of-band Emission

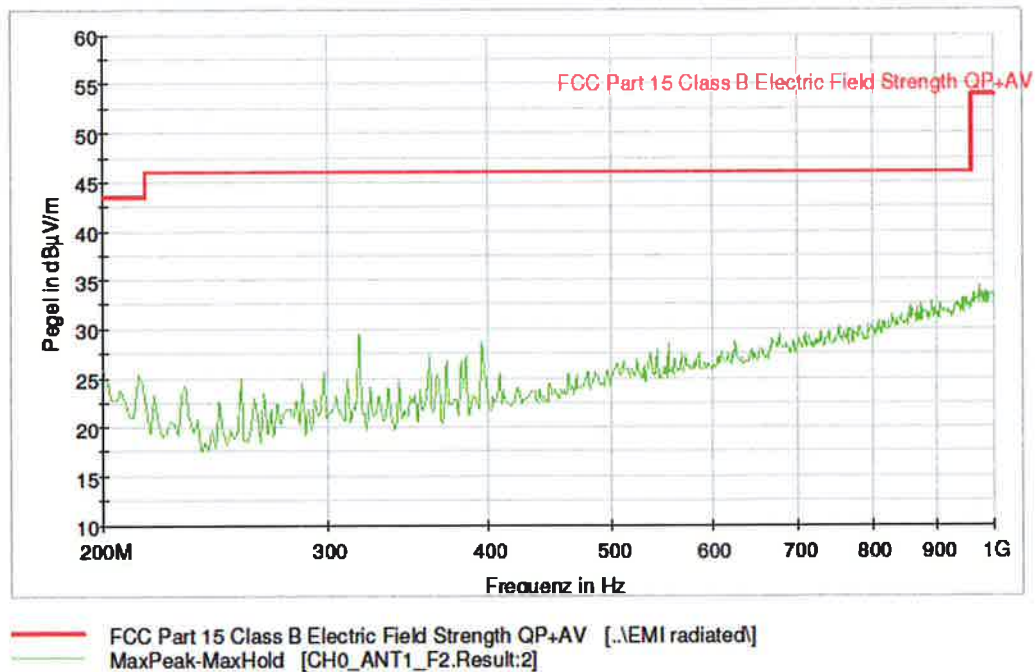
**§ 15.247(d)
A8.5**

Measurement with Peak-Detector:

Frequency: 2412 MHz – Antenna 1

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13:10:21

LIMIT

SUBCLAUSE 15.247(d) – A8.5

In any 100 kHz bandwidth outside the frequency band in which the radio device is operating.	At least 20dB below the power in the 100 kHz bandwidth within the band that contains the highest level of the desired power.
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Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

Out-of-band Emission

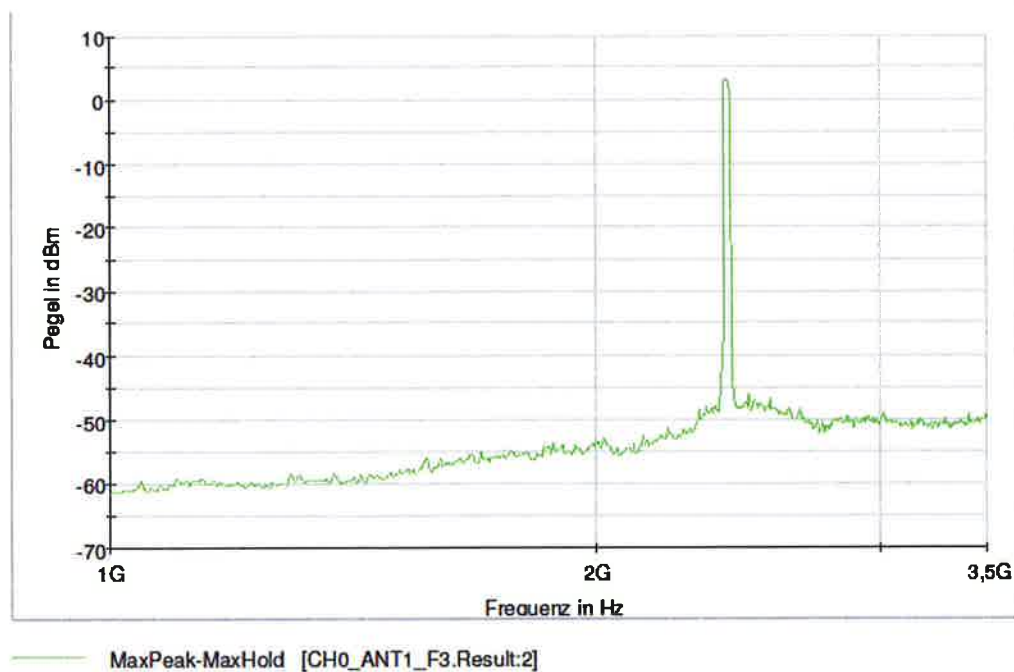
**§ 15.247(d)
A8.5**

Measurement with Peak-Detector:

Frequency: 2412 MHz – Antenna 1

DSR70DUAL_247

1 / 1



16.01.2012

12:22:18

LIMIT

SUBCLAUSE 15.247(d) – A8.5

In any 100 kHz bandwidth outside the frequency band in which the radio device is operating.	At least 20dB below the power in the 100 kHz bandwidth within the band that contains the highest level of the desired power.
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Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

Out-of-band Emission

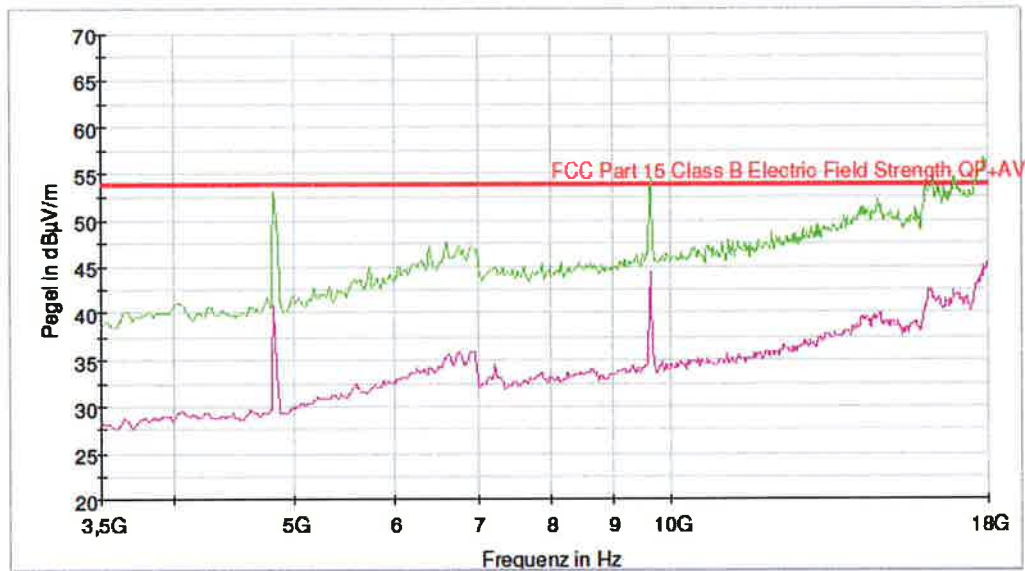
**§ 15.247(d)
A8.5**

Measurement with Peak-Detector (green line):

Frequency: 2412 MHz – Antenna 1

DSR70DUAL_209

1/1



— FCC Part 15 Class B Electric Field Strength QP+AV [..NEMI radiated]
— MaxPeak-MaxHold [CH0_ANT1_F4.Result:2]
— Average-MaxHold [CH0_ANT1_F4.Result:4]

16.01.2012

13:10:21

LIMIT SUBCLAUSE 15.247(d) – A8.5

<p>In any 100 kHz bandwidth outside the frequency band in which the radio device is operating.</p>	<p>At least 20dB below the power in the 100 kHz bandwidth within the band that contains the highest level of the desired power.</p>
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Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

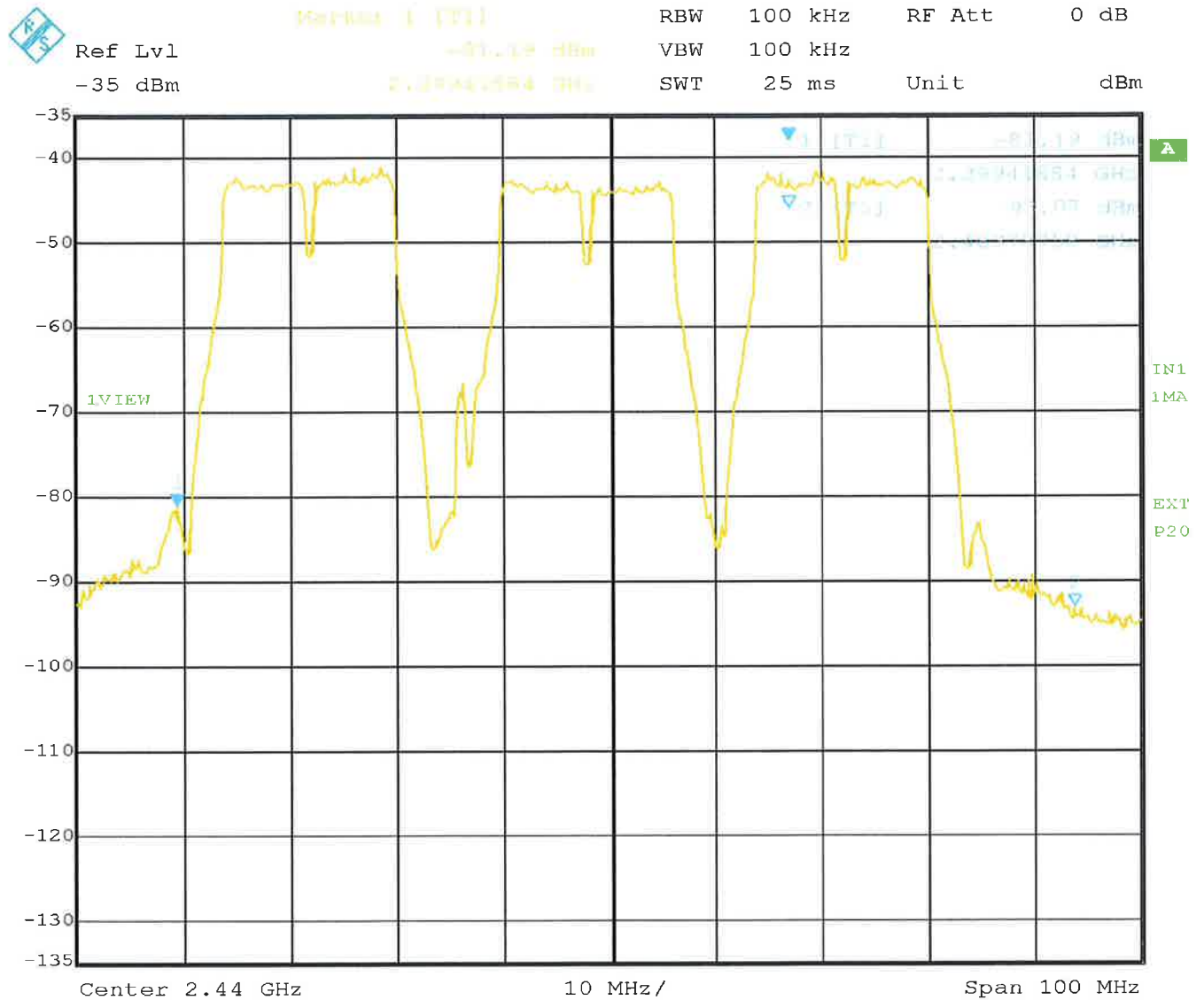
Although the measurements were made up to the tenth harmonic, the curve above is ending at 18 GHz. The tests above 18 GHz are not automatized and therefore we were not able to plot the spectrum analyzer display. Above 18 GHz no emission above noise level were found.

Out-of-band Emission

**§ 15.247(d)
A8.5**

Measurement with Peak-Detector:

Frequency: 2412 MHz – Band Edge measurement



Date: 16.JAN.2012 11:25:23
LIMIT SUBCLAUSE 15.247(d) – A8.5

In any 100 kHz bandwidth outside the frequency band in which the radio device is operating.	At least 20dB below the power in the 100 kHz bandwidth within the band that contains the highest level of the desired power.
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Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

Out-of-band Emission

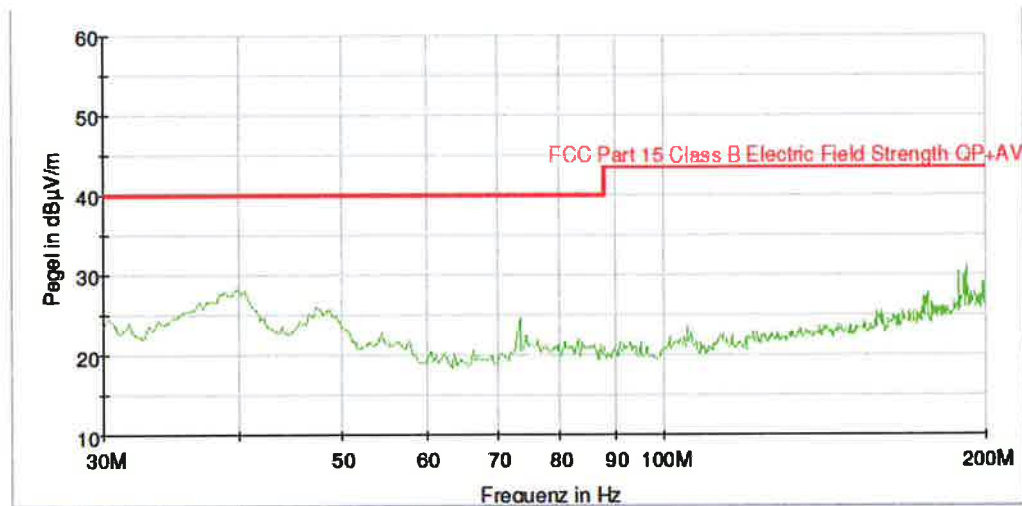
**§ 15.247(d)
A8.5**

Measurement with Peak-Detector:

Frequency: 2438 MHz – Antenna 0

DSR70DUAL_209

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- FCC Part 15 Class B Electric Field Strength QP+AV [..\EMI radiated]
- MaxPeak-MaxHold [CH1_ANT0_F1.Result:2]
- Average-ClearWrite-AVG [Ergebnistabelle.Result:3]
- Average-MaxHold-AVG [Ergebnistabelle.Result:4]
- FCC Part 15 Class B Electric Field Strength QP+AV [..\EMI radiated]
- MaxPeak-MaxHold [CH0_ANT0_F1.Result:2]

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13:10:21

LIMIT

SUBCLAUSE 15.247(d) – A8.5

In any 100 kHz bandwidth outside the frequency band in which the radio device is operating.	At least 20dB below the power in the 100 kHz bandwidth within the band that contains the highest level of the desired power.
---	--

Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

Out-of-band Emission

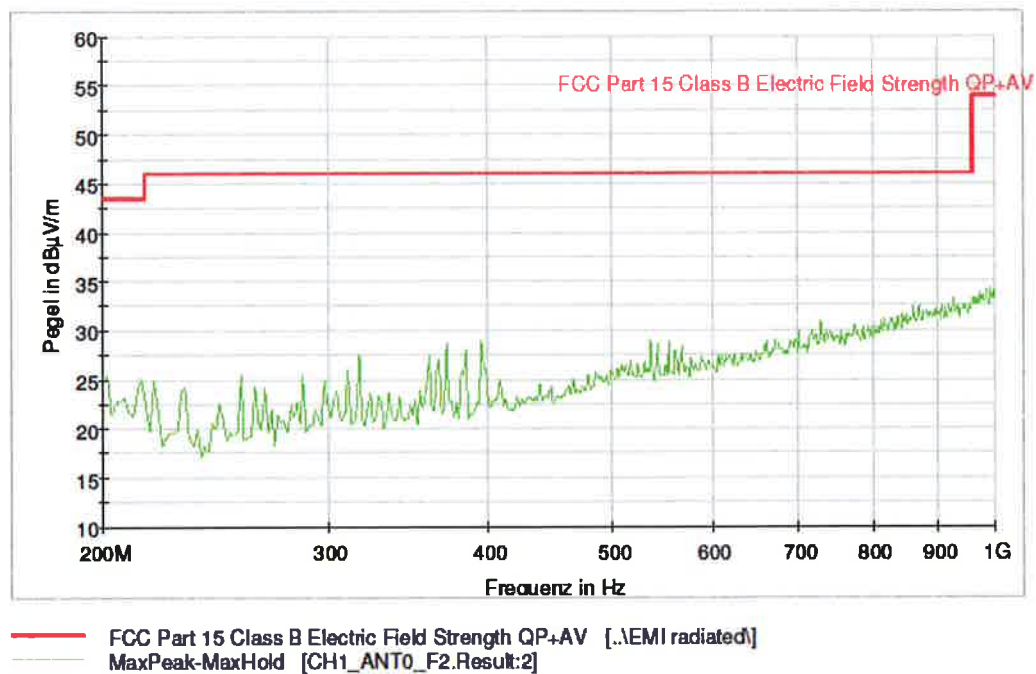
**§ 15.247(d)
A8.5**

Measurement with Peak-Detector:

Frequency: 2438 MHz – Antenna 0

DSR70DUAL_209

1/1



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13:10:21

LIMIT SUBCLAUSE 15.247(d) – A8.5

<p>In any 100 kHz bandwidth outside the frequency band in which the radio device is operating.</p>	<p>At least 20dB below the power in the 100 kHz bandwidth within the band that contains the highest level of the desired power.</p>
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Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

Out-of-band Emission

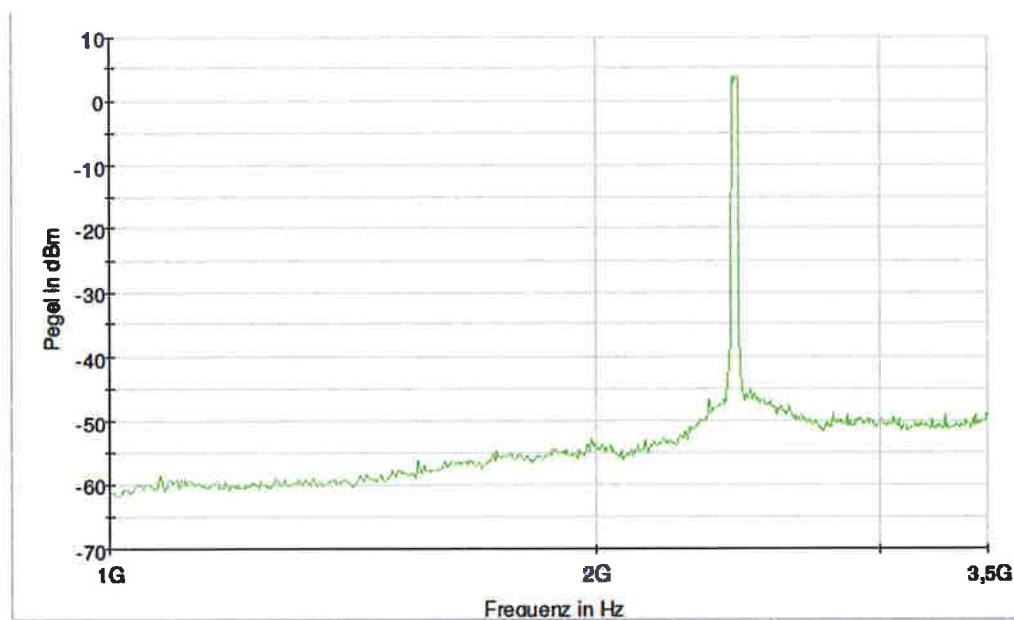
§ 15.247(d)
A8.5

Measurement with Peak-Detector:

Frequency: 2438 MHz – Antenna 0

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MaxPeak-MaxHold [CH1_ANT0_F3.Result:2]

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12:22:18

LIMIT

SUBCLAUSE 15.247(d) – A8.5

In any 100 kHz bandwidth outside the frequency band in which the radio device is operating.	At least 20dB below the power in the 100 kHz bandwidth within the band that contains the highest level of the desired power.
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Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

Out-of-band Emission

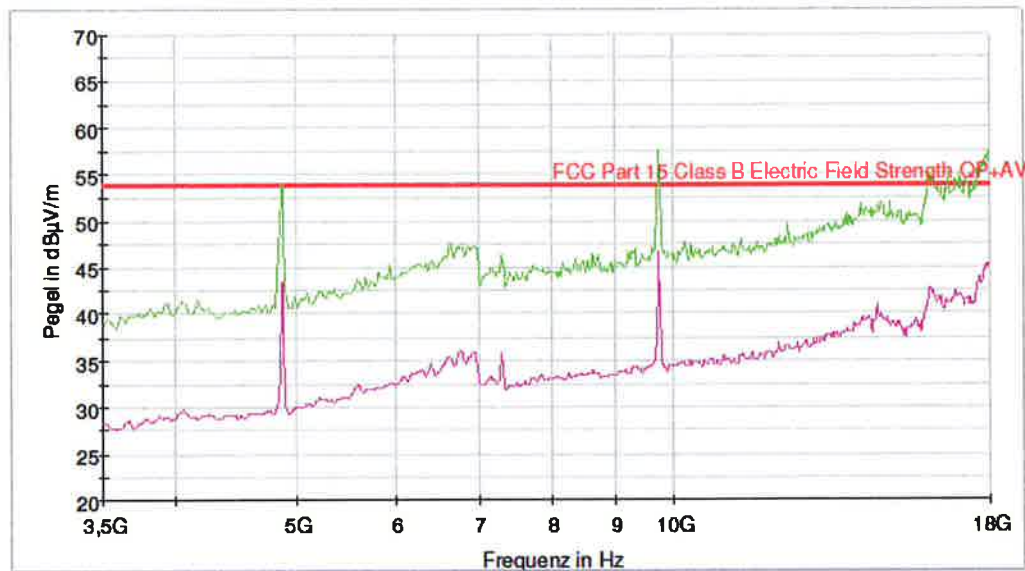
**§ 15.247(d)
A8.5**

Measurement with Peak-Detector (green line):

Frequency: 2438 MHz – Antenna 0

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— FCC Part 15 Class B Electric Field Strength QP+AV [..EMI radiated]
— MaxPeak-MaxHold [CH1_ANT0_F4.Result:2]
— Average-MaxHold [CH1_ANT0_F4.Result:4]

16.01.2012

13:10:21

LIMIT SUBCLAUSE 15.247(d) – A8.5

In any 100 kHz bandwidth outside the frequency band in which the radio device is operating.	At least 20dB below the power in the 100 kHz bandwidth within the band that contains the highest level of the desired power.
---	--

Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

Although the measurements were made up to the tenth harmonic, the curve above is ending at 18 GHz. The tests above 18 GHz are not automatized and therefore we were not able to plot the spectrum analyzer display. Above 18 GHz no emission above noise level were found.

Out-of-band Emission

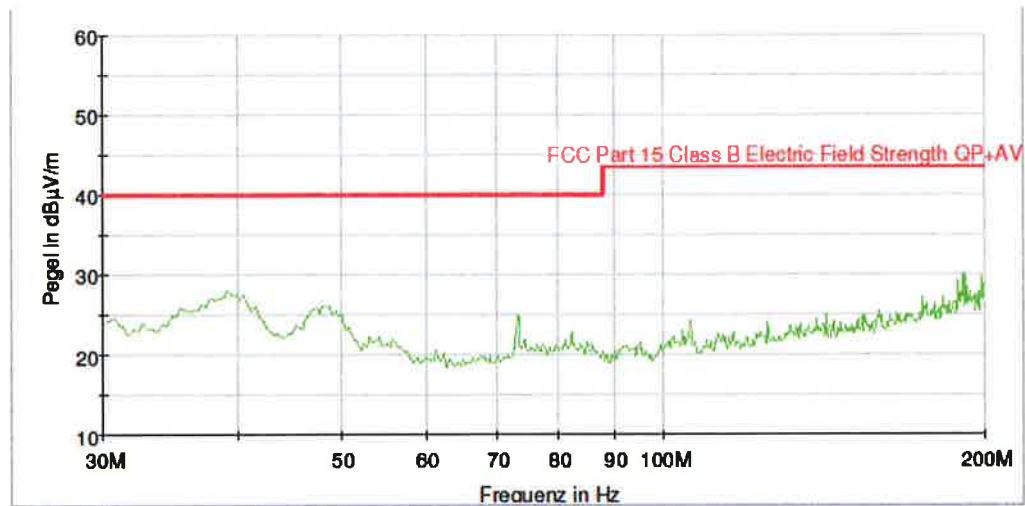
**§ 15.247(d)
A8.5**

Measurement with Peak-Detector:

Frequency: 2438 MHz – Antenna 1

DSR70DUAL_209

1/1



- FCC Part 15 Class B Electric Field Strength QP+AV [..\EMI radiated]
- MaxPeak-MaxHold [CH1_ANT1_F1.Result:2]
- Average-ClearWrite-AVG [Ergebnistabelle.Result:3]
- Average-MaxHold-AVG [Ergebnistabelle.Result:4]
- FCC Part 15 Class B Electric Field Strength QP+AV [..\EMI radiated]
- MaxPeak-MaxHold [CH0_ANT0_F1.Result:2]

16.01.2012

13:10:21

LIMIT

SUBCLAUSE 15.247(d) – A8.5

<p>In any 100 kHz bandwidth outside the frequency band in which the radio device is operating.</p>	<p>At least 20dB below the power in the 100 kHz bandwidth within the band that contains the highest level of the desired power.</p>
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Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

Out-of-band Emission

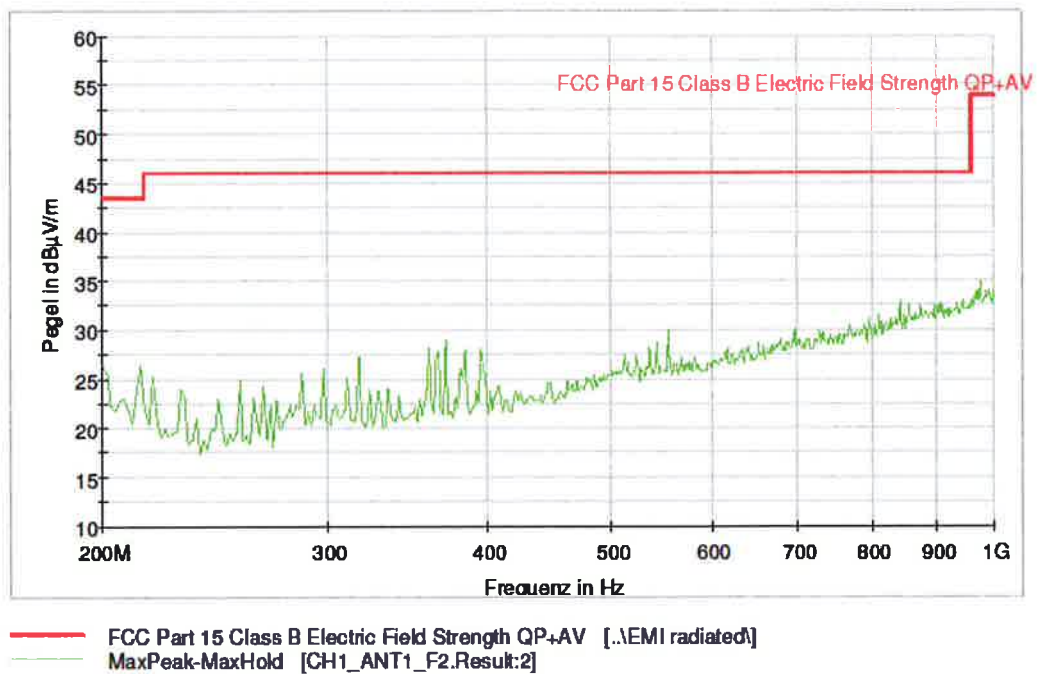
**§ 15.247(d)
A8.5**

Measurement with Peak-Detector:

Frequency: 2438 MHz – Antenna 1

DSR70DUAL_209

1 / 1



16.01.2012

13:10:21

LIMIT

SUBCLAUSE 15.247(d) – A8.5

In any 100 kHz bandwidth outside the frequency band in which the radio device is operating.	At least 20dB below the power in the 100 kHz bandwidth within the band that contains the highest level of the desired power.
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Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

Out-of-band Emission

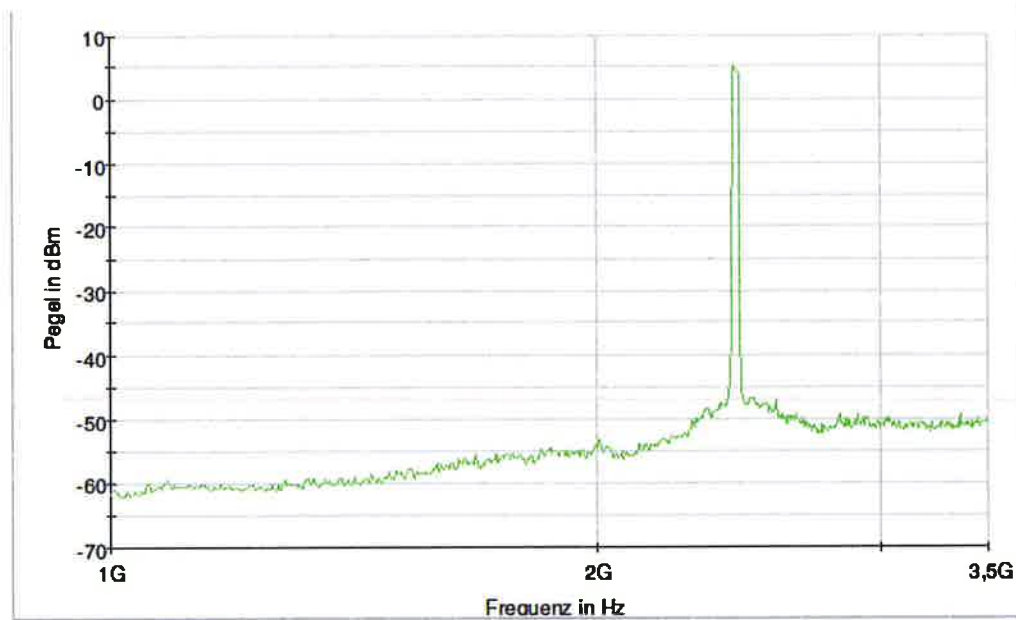
**§ 15.247(d)
A8.5**

Measurement with Peak-Detector:

Frequency: 2438 MHz – Antenna 1

DSR70DUAL_247

1 / 1



MaxPeak-MaxHold [CH1_ANT1_F3.Result:2]

16.01.2012

12:22:18

LIMIT

SUBCLAUSE 15.247(d) – A8.5

In any 100 kHz bandwidth outside the frequency band in which the radio device is operating.	At least 20dB below the power in the 100 kHz bandwidth within the band that contains the highest level of the desired power.
---	--

Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

Out-of-band Emission

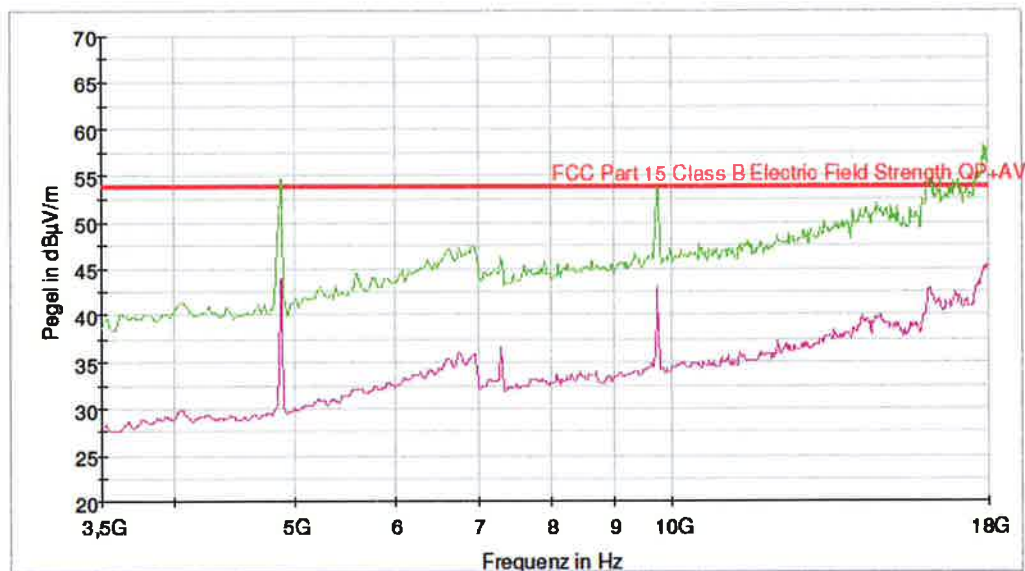
**§ 15.247(d)
A8.5**

Measurement with Peak-Detector (green line):

Frequency: 2438 MHz – Antenna 1

DSR70DUAL_209

1 / 1



— FCC Part 15 Class B Electric Field Strength QP+AV [..EMI radiated]
— MaxPeak-MaxHold [CH1_ANT1_F4.Result:2]
— Average-MaxHold [CH1_ANT1_F4.Result:4]

16.01.2012

13:10:21

LIMIT SUBCLAUSE 15.247(d) – A8.5

In any 100 kHz bandwidth outside the frequency band in which the radio device is operating.	At least 20dB below the power in the 100 kHz bandwidth within the band that contains the highest level of the desired power.
---	--

Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

Although the measurements were made up to the tenth harmonic, the curve above is ending at 18 GHz. The tests above 18 GHz are not automatized and therefore we were not able to plot the spectrum analyzer display. Above 18 GHz no emission above noise level were found.

Out-of-band Emission

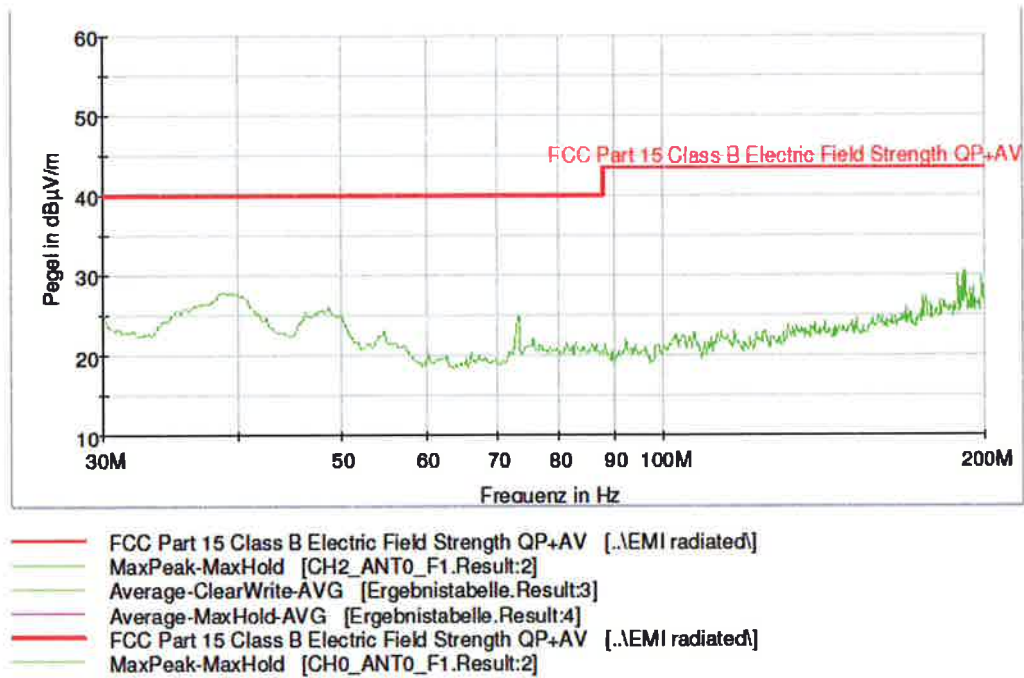
**§ 15.247(d)
A8.5**

Measurement with Peak-Detector:

Frequency: 2462 MHz – Antenna 0

DSR70DUAL_209

1 / 1



16.01.2012

13:10:21

LIMIT

SUBCLAUSE 15.247(d) – A8.5

<p>In any 100 kHz bandwidth outside the frequency band in which the radio device is operating.</p>	<p>At least 20dB below the power in the 100 kHz bandwidth within the band that contains the highest level of the desired power.</p>
--	---

Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

Out-of-band Emission

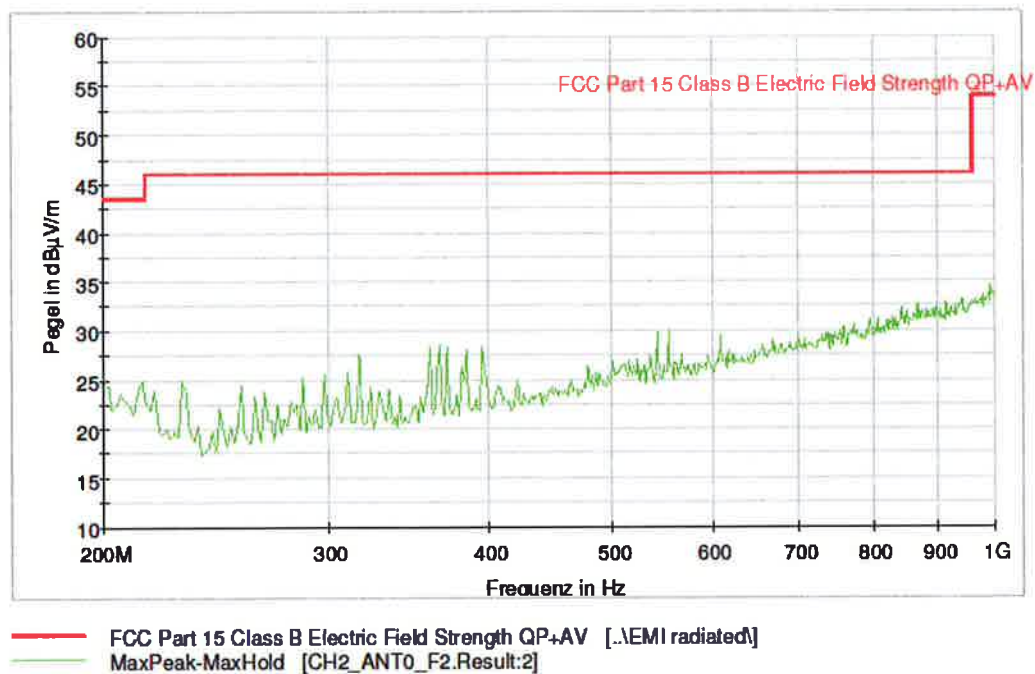
**§ 15.247(d)
A8.5**

Measurement with Peak-Detector:

Frequency: 2462 MHz – Antenna 0

DSR70DUAL_209

1 / 1



16.01.2012

13:10:21

LIMIT

SUBCLAUSE 15.247(d) – A8.5

In any 100 kHz bandwidth outside the frequency band in which the radio device is operating.	At least 20dB below the power in the 100 kHz bandwidth within the band that contains the highest level of the desired power.
---	--

Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

Out-of-band Emission

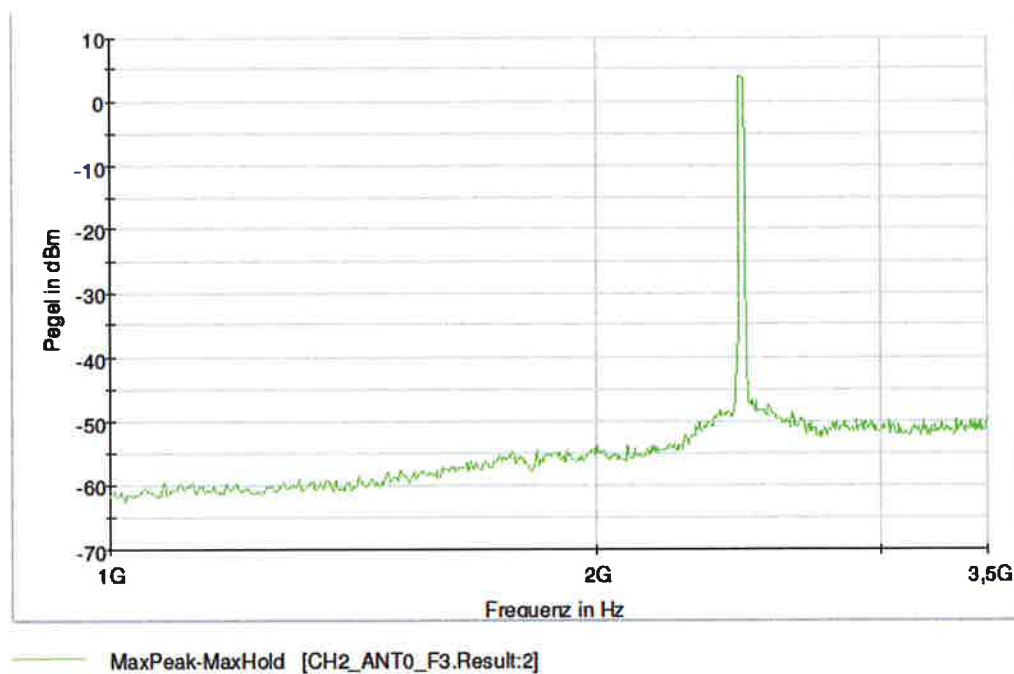
**§ 15.247(d)
A8.5**

Measurement with Peak-Detector:

Frequency: 2462 MHz – Antenna 0

DSR70DUAL_247

1 / 1



16.01.2012

12:22:18

LIMIT

SUBCLAUSE 15.247(d) – A8.5

In any 100 kHz bandwidth outside the frequency band in which the radio device is operating.

At least 20dB below the power in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

Out-of-band Emission

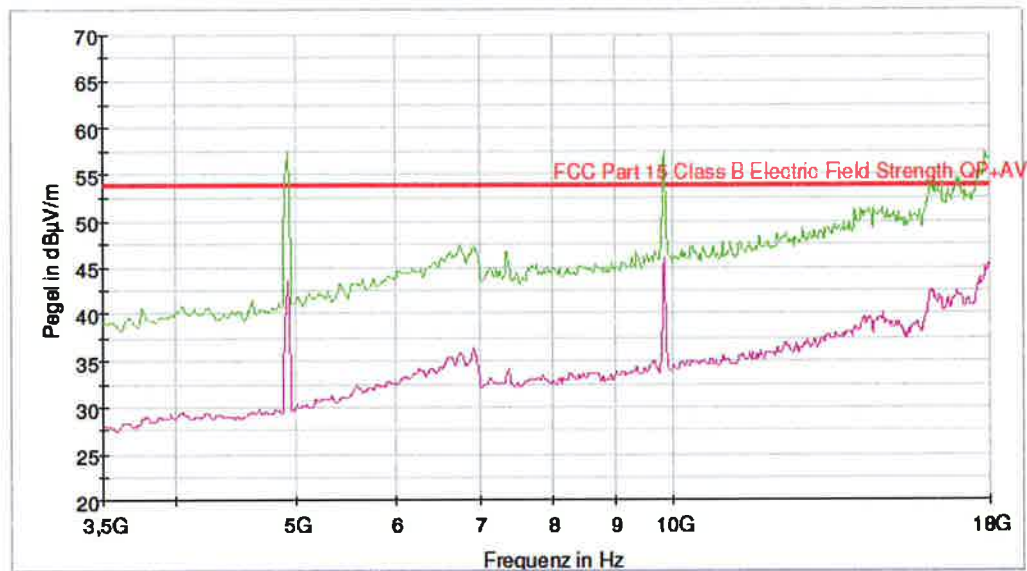
**§ 15.247(d)
A8.5**

Measurement with Peak-Detector (green line):

Frequency: 2462 MHz – Antenna 0

DSR70DUAL_209

1/1



— FCC Part 15 Class B Electric Field Strength QP+AV [..NEMI radiated]
— MaxPeak-MaxHold [CH2_ANT0_F4.Result:2]
— Average-MaxHold [CH2_ANT0_F4.Result:4]

16.01.2012

13:10:21

LIMIT SUBCLAUSE 15.247(d) – A8.5

In any 100 kHz bandwidth outside the frequency band in which the radio device is operating.	At least 20dB below the power in the 100 kHz bandwidth within the band that contains the highest level of the desired power.
---	--

Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

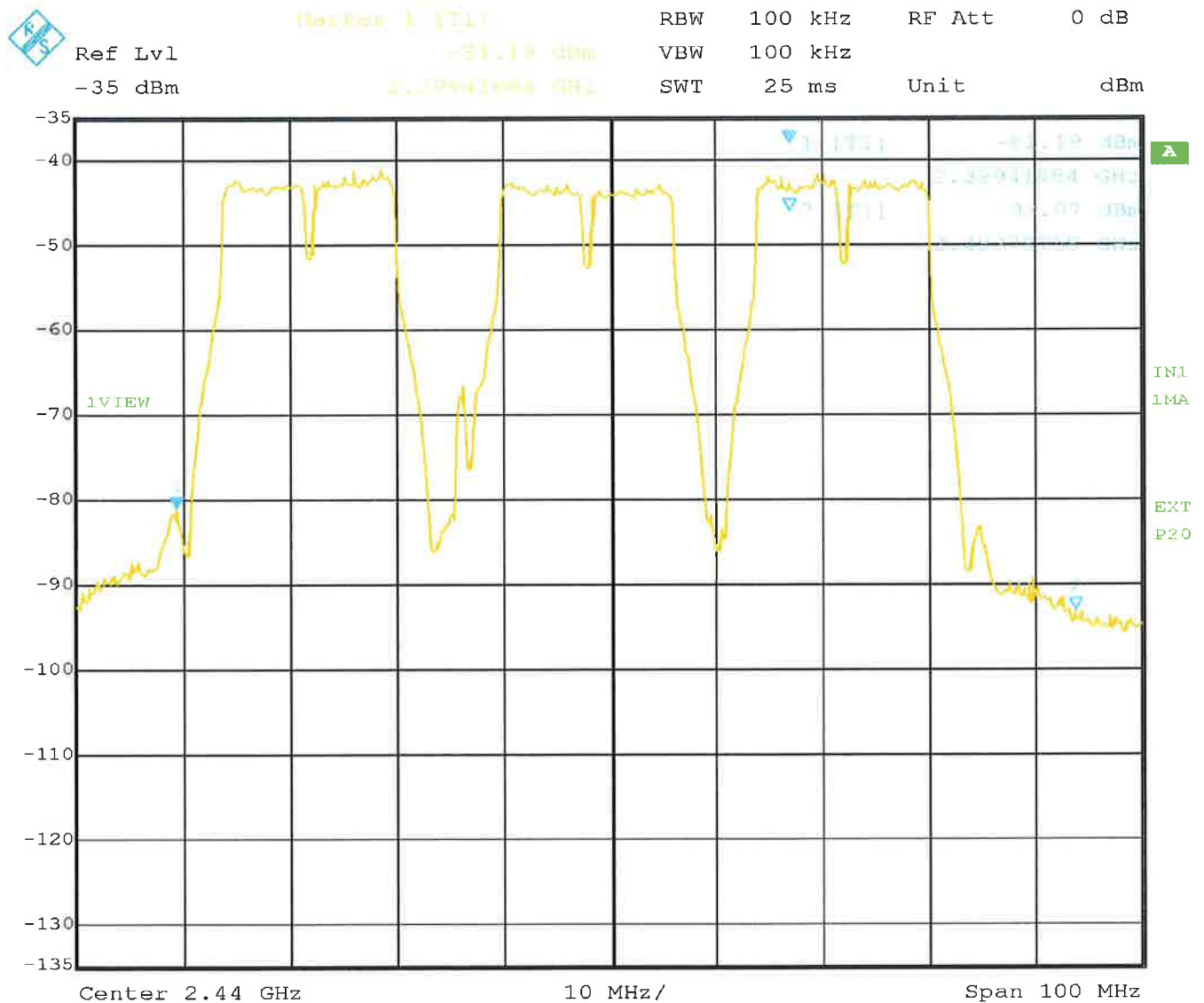
Although the measurements were made up to the tenth harmonic, the curve above is ending at 18 GHz. The tests above 18 GHz are not automatized and therefore we were not able to plot the spectrum analyzer display. Above 18 GHz no emission above noise level were found.

Out-of-band Emission

**§ 15.247(d)
A8.5**

Measurement with Peak-Detector:

Frequency: 2462 MHz – Band Edge measurement



Date: 16.JAN.2012 11:25:23
LIMIT SUBCLAUSE 15.247(d) – A8.5

<p>In any 100 kHz bandwidth outside the frequency band in which the radio device is operating.</p>	<p>At least 20dB below the power in the 100 kHz bandwidth within the band that contains the highest level of the desired power.</p>
--	---

Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

Out-of-band Emission

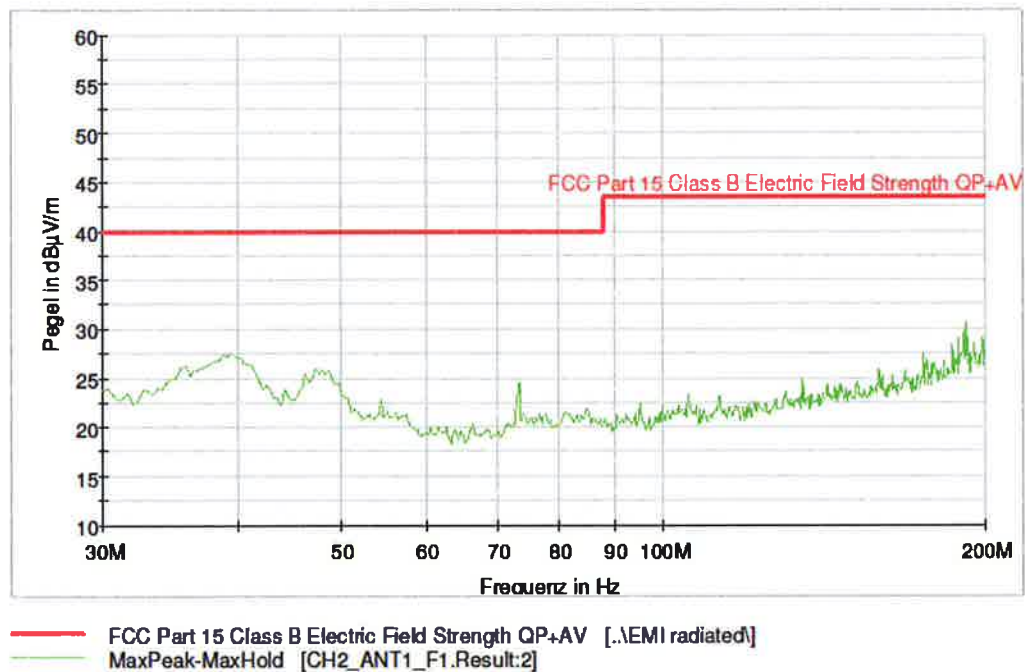
**§ 15.247(d)
A8.5**

Measurement with Peak-Detector:

Frequency: 2462 MHz – Antenna 1

DSR70DUAL_209

1/1



16.01.2012

13:10:21

LIMIT SUBCLAUSE 15.247(d) – A8.5

In any 100 kHz bandwidth outside the frequency band in which the radio device is operating.	At least 20dB below the power in the 100 kHz bandwidth within the band that contains the highest level of the desired power.
---	--

Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

Out-of-band Emission

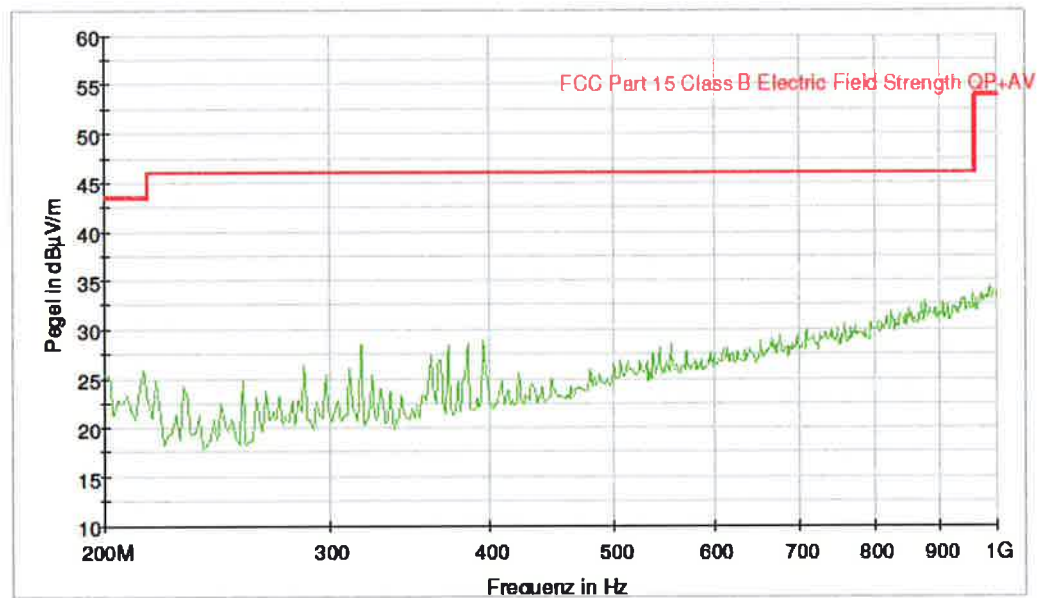
**§ 15.247(d)
A8.5**

Measurement with Peak-Detector:

Frequency: 2462 MHz – Antenna 1

DSR70DUAL_209

1 / 1



— FCC Part 15 Class B Electric Field Strength QP+AV [..EMI radiated]
— MaxPeak-MaxHold [CH2_ANT1_F2.Result:2]

16.01.2012

13:10:21

LIMIT

SUBCLAUSE 15.247(d) – A8.5

In any 100 kHz bandwidth outside the frequency band in which the radio device is operating.	At least 20dB below the power in the 100 kHz bandwidth within the band that contains the highest level of the desired power.
---	--

Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

Out-of-band Emission

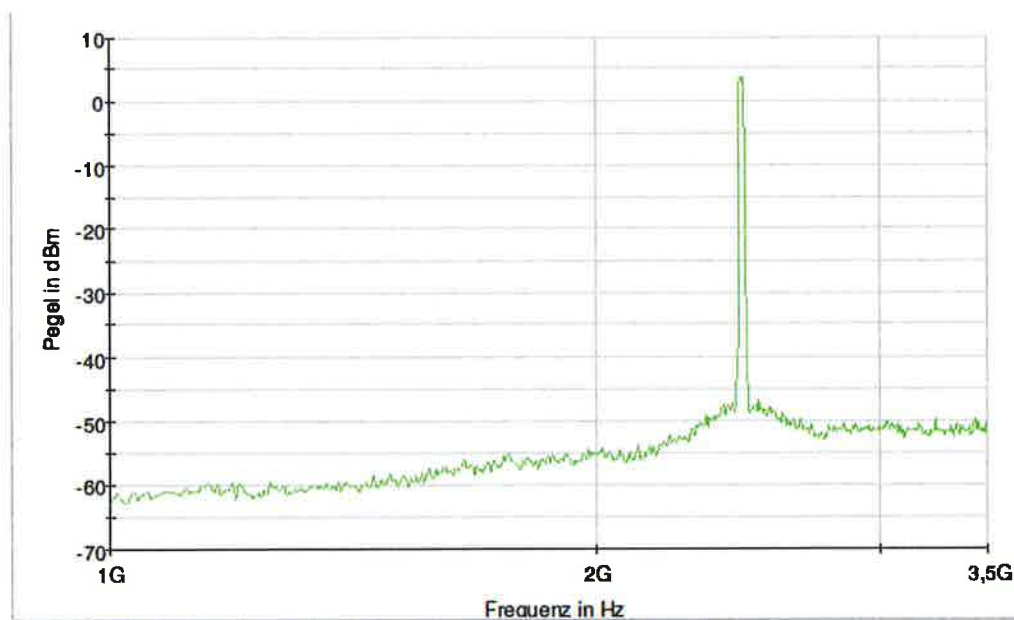
**§ 15.247(d)
A8.5**

Measurement with Peak-Detector:

Frequency: 2462 MHz – Antenna 1

DSR70DUAL_247

1 / 1



MaxPeak-MaxHold [CH2_ANT1_F3.Result:2]

16.01.2012

12:22:18

LIMIT

SUBCLAUSE 15.247(d) – A8.5

In any 100 kHz bandwidth outside the frequency band in which the radio device is operating.	At least 20dB below the power in the 100 kHz bandwidth within the band that contains the highest level of the desired power.
---	--

Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

Out-of-band Emission

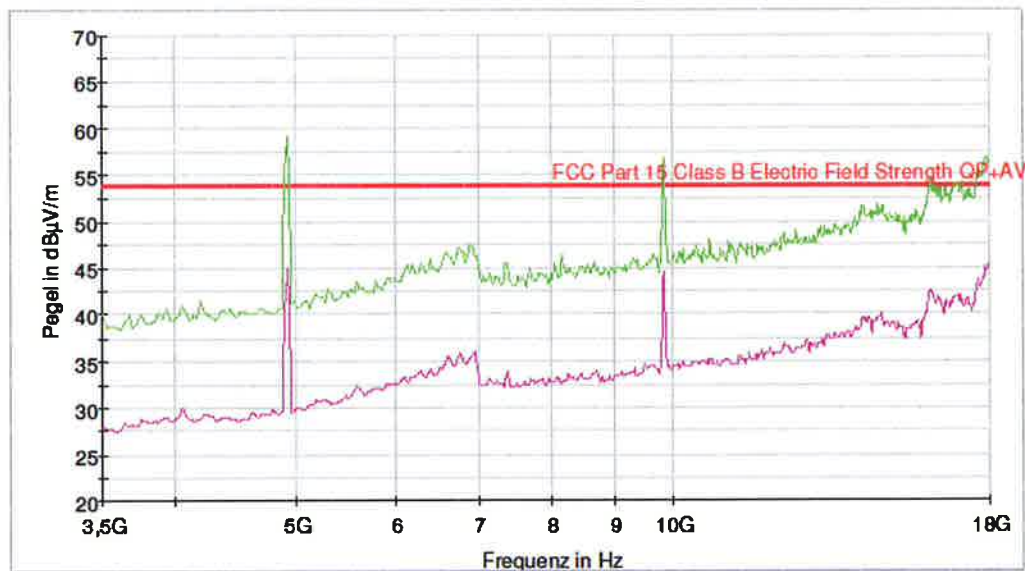
**§ 15.247(d)
A8.5**

Measurement with Peak-Detector (green line):

Frequency: 2462 MHz – Antenna 1

DSR70DUAL_209

1 / 1



— FCC Part 15 Class B Electric Field Strength QP+AV [..EMI radiated]
— MaxPeak-MaxHold [CH2_ANT1_F4.Result:2]
— Average-MaxHold [CH2_ANT1_F4.Result:4]

16.01.2012

13:10:21

LIMIT SUBCLAUSE 15.247(d) – A8.5

In any 100 kHz bandwidth outside the frequency band in which the radio device is operating.	At least 20dB below the power in the 100 kHz bandwidth within the band that contains the highest level of the desired power.
---	--

Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

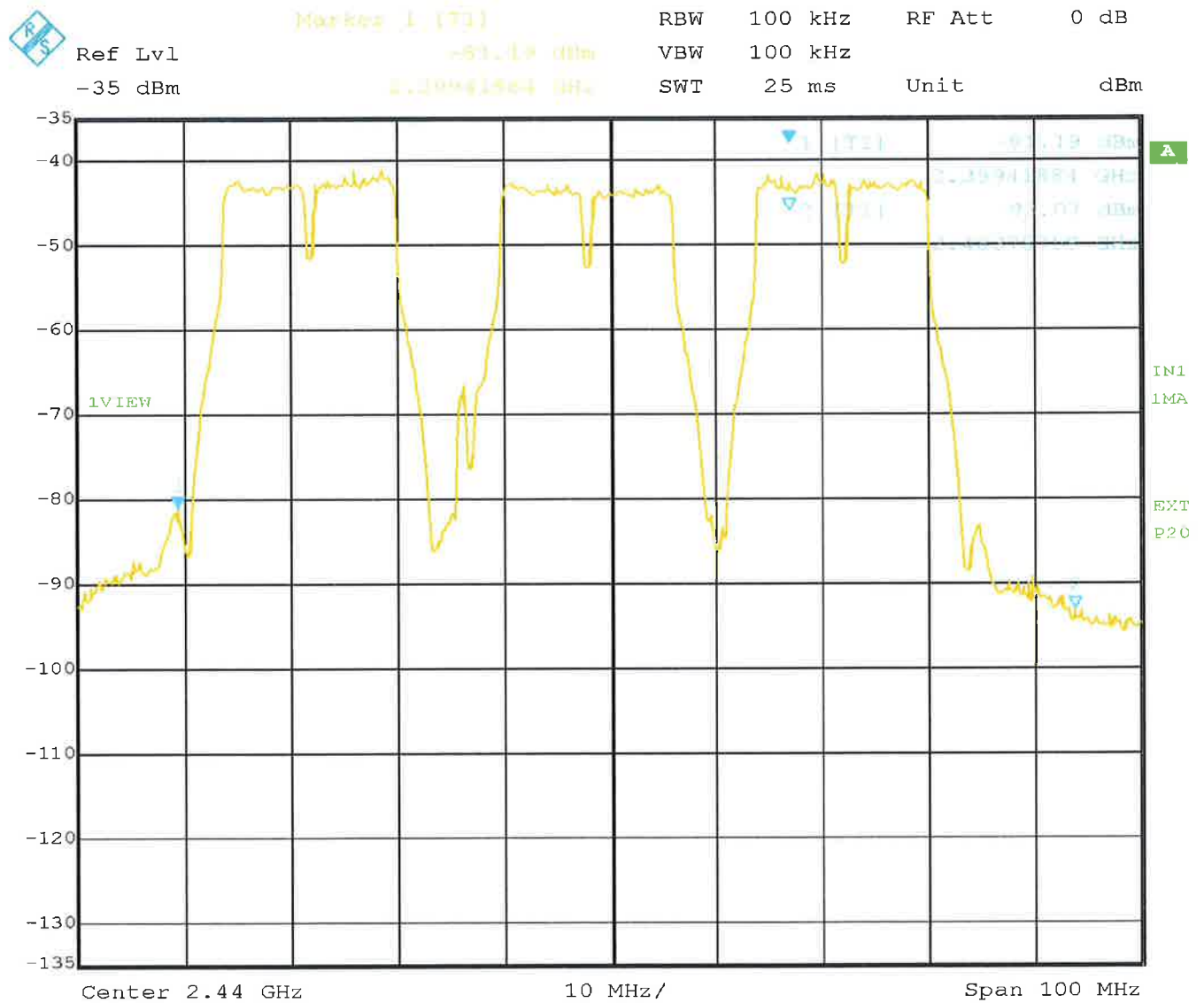
Although the measurements were made up to the tenth harmonic, the curve above is ending at 18 GHz. The tests above 18 GHz are not automatized and therefore we were not able to plot the spectrum analyzer display. Above 18 GHz no emission above noise level were found.

Out-of-band Emission

**§ 15.247(d)
A8.5**

Measurement with Peak-Detector:

Frequency: 2462 MHz – Band Edge measurement



Date: 16.JAN.2012 11:25:23
LIMIT SUBCLAUSE 15.247(d) – A8.5

<p>In any 100 kHz bandwidth outside the frequency band in which the radio device is operating.</p>	<p>At least 20dB below the power in the 100 kHz bandwidth within the band that contains the highest level of the desired power.</p>
--	---

Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

Emissions in restricted bands

§ 15.209(a)

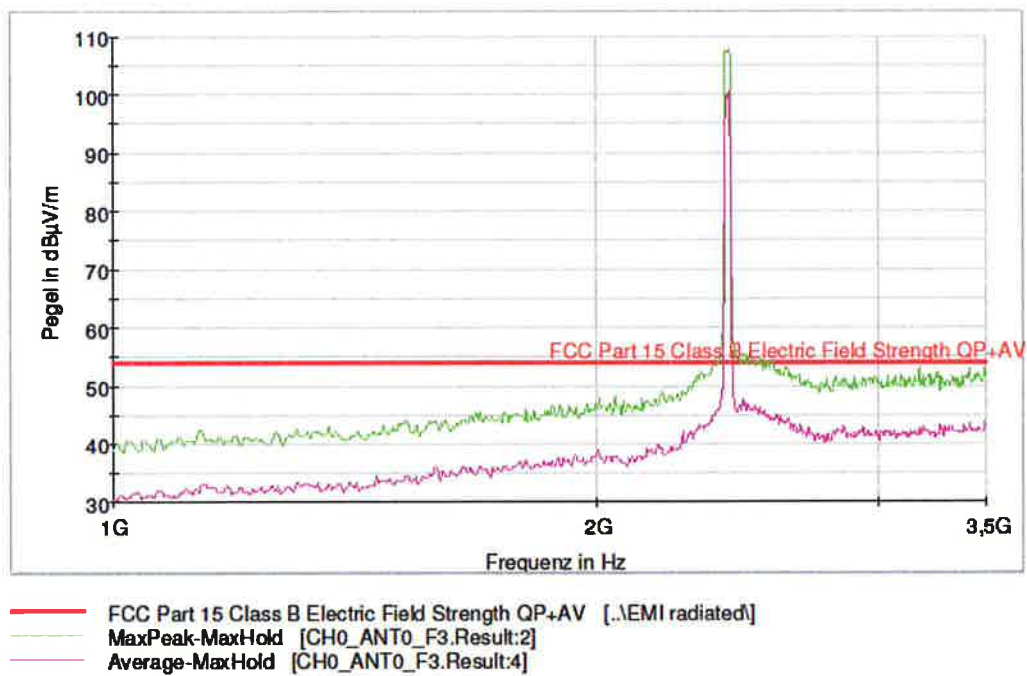
As the limit 15.209 was checked during "Out-of-band Emission" measurements for frequencies below 1 GHz and also above 3,5 GHz, only the frequency range between 1 GHz and 3,5 GHz was checked.

Measurement with Average-Detector (violet line):

Frequency: 2412 MHz – Antenna 0

DSR70DUAL_209

1 / 1



16.01.2012

13:10:21

LIMIT

SUBCLAUSE 15.209

≥ 1GHz	54 dBµV/m average
--------	-------------------

Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

Emissions in restricted bands

§ 15.209(a)

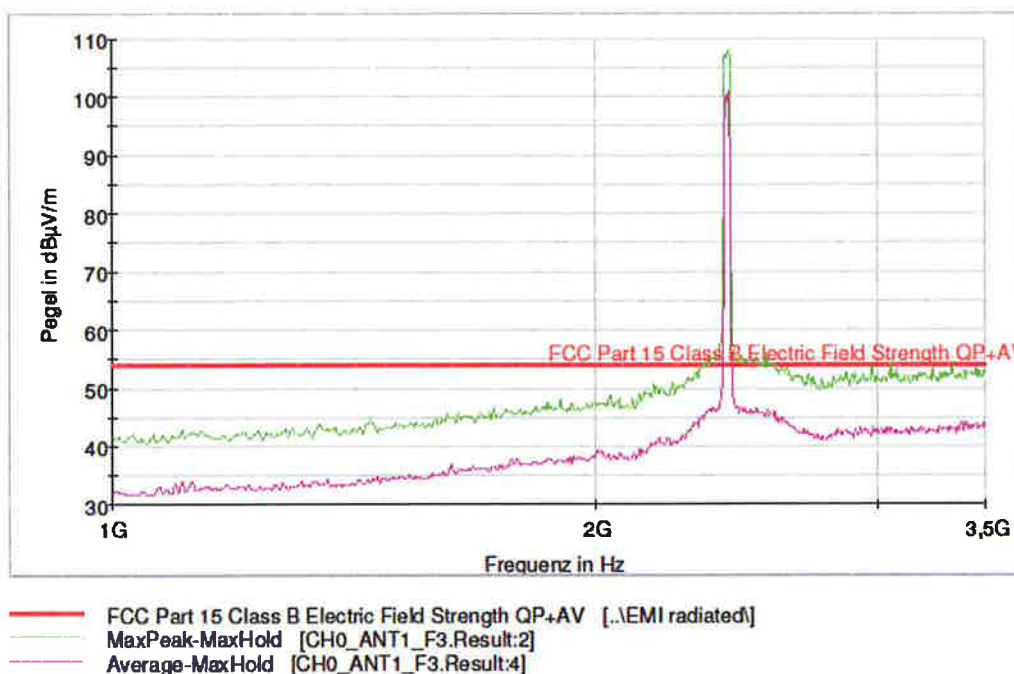
As the limit 15.209 was checked during "Out-of-band Emission" measurements for frequencies below 1 GHz and also above 3,5 GHz, only the frequency range between 1 GHz and 3,5 GHz was checked.

Measurement with Average-Detector (violet line):

Frequency: 2412 MHz – Antenna 1

DSR70DUAL_209

1/1



16.01.2012

13:10:21

LIMIT

SUBCLAUSE 15.209

≥ 1GHz	54 dBµV/m average
--------	-------------------

Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

Emissions in restricted bands

§ 15.209(a)

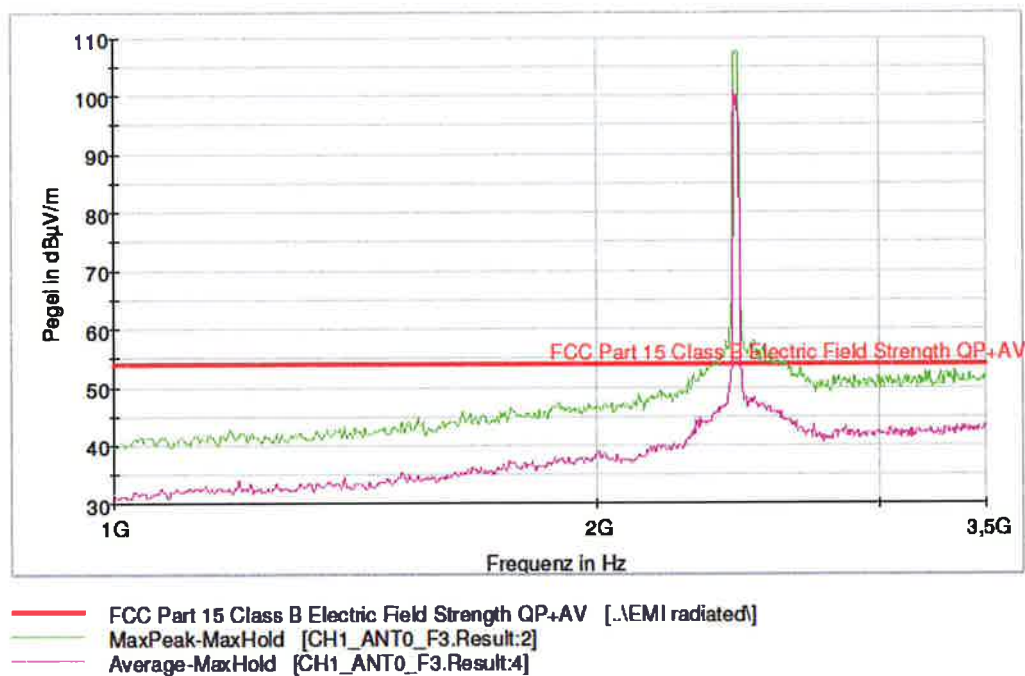
As the limit 15.209 was checked during "Out-of-band Emission" measurements for frequencies below 1 GHz and also above 3,5 GHz, only the frequency range between 1 GHz and 3,5 GHz was checked.

Measurement with Average-Detector (violet line):

Frequency: 2438 MHz – Antenna 0

DSR70DUAL 209

1/1



16.01.2012

13:10:21

LIMIT

SUBCLAUSE 15.209

≥ 1GHz	54 dBµV/m average
--------	-------------------

Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

Emissions in restricted bands

§ 15.209(a)

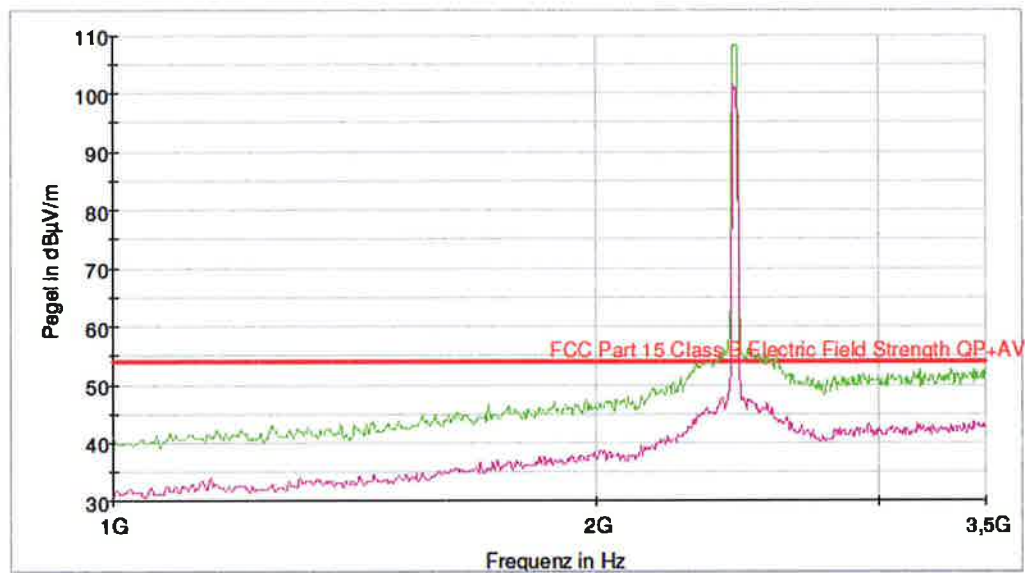
As the limit 15.209 was checked during "Out-of-band Emission" measurements for frequencies below 1 GHz and also above 3,5 GHz, only the frequency range between 1 GHz and 3,5 GHz was checked.

Measurement with Average-Detector (violet line):

Frequency: 2438 MHz – Antenna 1

DSR70DUAL_209

1/1



- FCC Part 15 Class B Electric Field Strength QP+AV [..EMI radiated]
- MaxPeak-MaxHold [CH1_ANT1_F3.Result:2]
- Average-MaxHold [CH1_ANT1_F3.Result:4]

16.01.2012

13:10:21

LIMIT SUBCLAUSE 15.209

$\geq 1\text{GHz}$	54 dBµV/m average
--------------------	-------------------

Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

Emissions in restricted bands

§ 15.209(a)

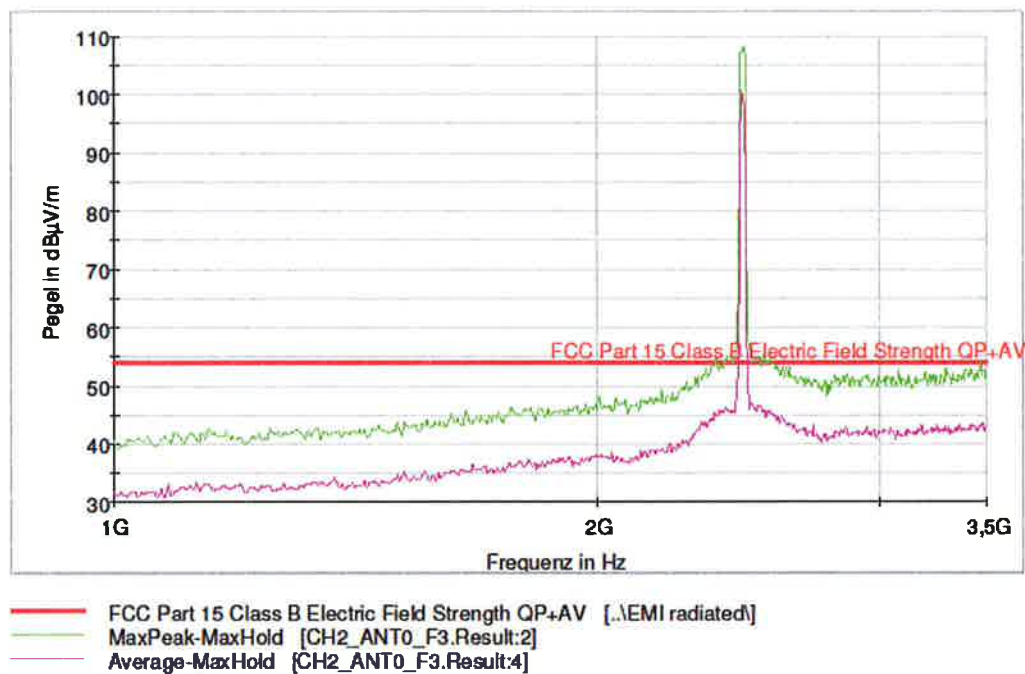
As the limit 15.209 was checked during "Out-of-band Emission" measurements for frequencies below 1 GHz and also above 3,5 GHz, only the frequency range between 1 GHz and 3,5 GHz was checked.

Measurement with Average-Detector (violet line):

Frequency: 2462 MHz – Antenna 0

DSR70DUAL_209

1 / 1



16.01.2012

13:10:21

LIMIT

SUBCLAUSE 15.209

≥ 1GHz	54 dBµV/m average
--------	-------------------

Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

Emissions in restricted bands

§ 15.209(a)

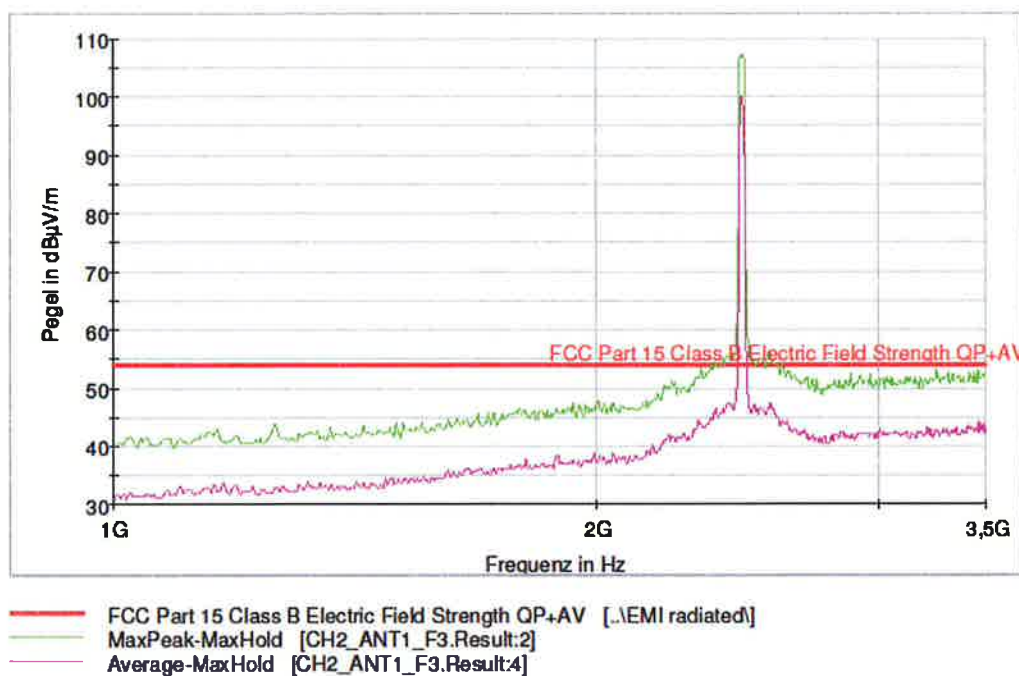
As the limit 15.209 was checked during "Out-of-band Emission" measurements for frequencies below 1 GHz and also above 3,5 GHz, only the frequency range between 1 GHz and 3,5 GHz was checked.

Measurement with Average-Detector (violet line):

Frequency: 2462 MHz – Antenna 1

DSR70DUAL_209

1/1



16.01.2012

13:10:21

LIMIT

SUBCLAUSE 15.209

≥ 1GHz	54 dBµV/m average
--------	-------------------

Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-207

Test Report Reference:
M/FG-12/102

Ambient temperature: 22°C

Relative humidity: 26%



Maximum permissible Exposure

§ 15.247(i)

This kind of radio equipment is categorically excluded from routine environmental evaluation.

Appendix 1

Test equipment used

<input type="checkbox"/>	Anechoic Chamber with 3m measurement distance	NT-100	<input type="checkbox"/>	ESVP - Test receiver 20 - 1000 MHz	NT-201
<input type="checkbox"/>	Stripline according to ISO 11452-5	NT-108	<input type="checkbox"/>	ESCI - Test receiver 9 kHz - 7 GHz	NT-203/1
<input type="checkbox"/>	MA 240 - Antenna mast 1 - 4 m height	NT-110	<input type="checkbox"/>	ESI26 – Test receiver 20 Hz – 26,5 GHz	NT-207
<input type="checkbox"/>	DS 412 - Turntable 0 - 400 ° Azimuth	NT-111	<input type="checkbox"/>	Digital Radio Tester CTS55	NT-208
<input type="checkbox"/>	HD 100 Controller Mast+Turntable	NT-112	<input type="checkbox"/>	Noise-gen., ITU-R 559-2 20 Hz – 20 kHz	NT-209
<input type="checkbox"/>	HUF-Z3 - Log. Per. Antenna 200 - 1000 MHz	NT-121	<input type="checkbox"/>	CMTA - Radiocommunication analyzer ; 0,1 - 1000 MHz	NT-210
<input type="checkbox"/>	HFH-Z2 - Loop Antenna 9 kHz - 30 MHz	NT-122	<input type="checkbox"/>	3271 - Spectrum analyzer 100 Hz - 26,5 GHz	NT-211
<input type="checkbox"/>	HFH-Z6 - Rod Antenna 9 kHz - 30 MHz	NT-123	<input type="checkbox"/>	Digital Radio Tester Aeroflex 3920	NT-212/1
<input type="checkbox"/>	3121C - Dipole Antenna 28 - 1000 MHz	NT-124	<input type="checkbox"/>	2855S - Communication analyzer	NT-213
<input type="checkbox"/>	3115 - Horn Antenna 1 - 18 GHz (immunity)	NT-125	<input type="checkbox"/>	Mixer M28HW 26,5 GHz - 40 GHz	NT-214
<input type="checkbox"/>	3116 - Horn Antenna 18 - 40 GHz	NT-126	<input type="checkbox"/>	Diode Detector 0,01 GHz - 26,5 GHz	NT-215
<input type="checkbox"/>	SAS-200/543 - Bicon. Antenna 20 MHz - 300 MHz	NT-127	<input type="checkbox"/>	RubiSource T&M Timing reference	NT-216
<input type="checkbox"/>	AT-1080 - Log. Per. Antenna 80 - 1000 MHz	NT-128	<input type="checkbox"/>	Radiocommunicationanalyzer SWR 1180 MD	NT-217
<input type="checkbox"/>	HK-116 - bicon. Antenna 20 MHz - 300 MHz	NT-129	<input type="checkbox"/>	Mixer M19HWD 40 GHz – 60 GHz	NT-218
<input type="checkbox"/>	HK-116 - bicon. Antenna 20 MHz - 300 MHz	NT-130	<input type="checkbox"/>	Mixer M12HWD 60 GHz – 90 GHz	NT-219
<input type="checkbox"/>	3146 - Log. Per. Antenna 200 – 1000 MHz	NT-131	<input type="checkbox"/>	DSO9104 Digital scope	NT-220/1
<input type="checkbox"/>	Loop Antenna H-Field	NT-132	<input type="checkbox"/>	TPS 2014 Digital scope	NT-222
<input type="checkbox"/>	Horn Antenna 500 MHz - 2900 MHz	NT-133	<input type="checkbox"/>	Artificial Ear according to IEC 60318	NT-224
<input type="checkbox"/>	Horn Antenna 500 MHz - 6000 MHz	NT-133/1	<input type="checkbox"/>	1 kHz Sound calibrator	NT-225
<input type="checkbox"/>	Log. per. Antenna 800 MHz - 2500 MHz	NT-134	<input type="checkbox"/>	B10 - Harmonics and flicker analyzer	NT-232
<input type="checkbox"/>	Log. per. Antenna 800 MHz - 2500 MHz	NT-135	<input type="checkbox"/>	SRM-3000 Spectrumanalyzer	NT-233
<input type="checkbox"/>	BiConiLog Antenna 26 MHz – 2000 MHz	NT-137	<input type="checkbox"/>	SRM-3006 Spectrumanalyzer	NT-233/1a
<input type="checkbox"/>	Conical Dipol Antenna PCD8250	NT-138	<input type="checkbox"/>	E-field probe SRM 75 MHz – 3 GHz	NT-234
<input type="checkbox"/>	HF 906 - Horn Antenna 1 - 18 GHz (emission)	NT-139	<input type="checkbox"/>	Field Meter NBM-500 incl. E- and H-Field probes	NT-240a-d
<input type="checkbox"/>	HZ-1 Antenna tripod	NT-150	<input type="checkbox"/>	Hall-Teslameter ETM-1	NT-241
<input type="checkbox"/>	BN 1500 Antenna tripod	NT-151	<input type="checkbox"/>	EFA-3 H-field- / E-field probe	NT-243
<input type="checkbox"/>	Ant. tripod for EN61000-4-3 Model TP1000A	NT-156	<input type="checkbox"/>	Field Meter EMR-200 100 kHz – 3 GHz	NT-244
<input type="checkbox"/>	Power quality analyzer Fluke 1760 (complete set)	NT-160 - NT-172	<input type="checkbox"/>	E-field probe 100 kHz – 3 GHz	NT-245
<input type="checkbox"/>	Spectrumanalyzer – FSP7 9 kHz – 7 GHz	NT-200	<input type="checkbox"/>	H-field probe 300 kHz – 30 MHz	NT-246


Division Medical
Technology/
Communication
Technology/ EMC

Department: FG

Test report number:
M/FG-12/102

Page: 1 of 3

Date: 25.01.2012

Checked by: 

Appendix 1 (continued)

Test equipment used

<input type="checkbox"/>	E-field probe 3 MHz – 18 GHz	NT-247	<input type="checkbox"/>	VCS 500-M6 Surge-Generator	NT-326
<input type="checkbox"/>	H-field probe 27 MHz – 1 GHz	NT-248	<input type="checkbox"/>	BTA-250 - RF-Amplifier 9 kHz - 220 MHz / 250 W	NT-330
<input type="checkbox"/>	ELT-400 1 Hz – 400 kHz	NT-249	<input type="checkbox"/>	T82-50 RF-Amplifier 2 GHz – 8 GHz	NT-331
<input type="checkbox"/>	MDS 21 - Absorbing clamp 30 - 1000 MHz	NT-250	<input type="checkbox"/>	500W1000M7 - RF-Amplifier 80 - 1000 MHz / 500 W	NT-332
<input type="checkbox"/>	FCC-203I EM Injection clamp	NT-251	<input type="checkbox"/>	AS0102-65R - RF-Amplifier 1 GHz - 2 GHz	NT-333
<input type="checkbox"/>	FCC-203I-DCN Ferrite decoupling network	NT-252	<input type="checkbox"/>	APA01 – RF-Amplifier 0,5 GHz – 2,5 GHz	NT-334
<input type="checkbox"/>	PR50 Current Probe	NT-253	<input type="checkbox"/>	Preamplifier 1 GHz - 4 GHz	NT-335
<input type="checkbox"/>	PR630 Current Probe	NT-254	<input type="checkbox"/>	Preamplifier for GPS MKU 152 A	NT-336
<input type="checkbox"/>	Fluke 87 V True RMS Multimeter	NT-260	<input type="checkbox"/>	Preamplifier 100 MHz – 23 GHz	NT-337
<input type="checkbox"/>	Model 2000 Digital Multimeter	NT-261	<input type="checkbox"/>	DC Block 10 MHz – 18 GHz Model 8048	NT-338
<input type="checkbox"/>	Fluke 87 V Digital Multimeter	NT-262/1	<input type="checkbox"/>	2-97201 Electronic load	NT-341
<input type="checkbox"/>	ESH2-Z5-U1 Artificial mains network 4x25A	NT-300	<input type="checkbox"/>	TSX3510P - Power supply 0-30 V / 0 - 10 A	NT-344
<input type="checkbox"/>	ESH3-Z5-U1 Artificial mains network 2x10A	NT-301	<input type="checkbox"/>	TSX3510P - Power supply 0-30 V / 0 - 10 A	NT-345
<input type="checkbox"/>	ESH3-Z6-U1 Artificial mains network 1x100A	NT-302	<input type="checkbox"/>	VDS 200 Mobil-impuls-generator	NT-350
<input type="checkbox"/>	ESH3-Z6-U1 Artificial mains network 1x100A	NT-302a	<input type="checkbox"/>	LD 200 Mobil-impuls-generator	NT-351
<input type="checkbox"/>	PHE 4500/B Power amplifier	NT-304	<input type="checkbox"/>	MPG 200 Mobil-Impuls-Generators	NT-352
<input type="checkbox"/>	EZ10 T-Artificial Network	NT-305	<input type="checkbox"/>	EFT 200 Mobil-impuls-generator	NT-353
<input type="checkbox"/>	SMG - Signal generator 0,1 - 1000 MHz	NT-310	<input type="checkbox"/>	AN 200 S1 Artificial Network	NT-354
<input type="checkbox"/>	SMA100A - Signal generator 9 kHz - 6 GHz	NT-310/1	<input type="checkbox"/>	FP-EFT 32M 3 ph. Coupling filter (Burst)	NT-400/1
<input type="checkbox"/>	PM 5518 TXVPS Video generator	NT-311	<input type="checkbox"/>	PHE 4500 - Mains impedance network	NT-401
<input type="checkbox"/>	RefRad Reference generator	NT-312	<input type="checkbox"/>	IP 6.2 Coupling filter for data lines (Surge)	NT-403
<input type="checkbox"/>	SMP 02 Signal generator 10 MHz - 20 GHz	NT-313	<input type="checkbox"/>	TK 9421 High Power Volt. Probe 150 kHz - 30 MHz	NT-409
<input type="checkbox"/>	40 MHz Arbitrary Generator TGA1241	NT-315	<input type="checkbox"/>	ESH2-Z3 - Probe 9 kHz - 30 MHz	NT-410
<input type="checkbox"/>	Artificial mains network NSLK 8127-PLC	NT-316	<input type="checkbox"/>	IP 4 - Capacitive clamp (Burst)	NT-411
<input type="checkbox"/>	PEFT - Burst generator up to 4 kV	NT-320	<input type="checkbox"/>	Highpass-Filter 100 MHz – 3 GHz	NT-412
<input type="checkbox"/>	ESD 30 System up to 25 kV	NT-321	<input type="checkbox"/>	Highpass-Filter 600 MHz – 4 GHz	NT-413
<input type="checkbox"/>	PSURGE 4.1 Surge generator	NT-324	<input type="checkbox"/>	Highpass-Filter 1250 MHz – 4 GHz	NT-414
<input type="checkbox"/>	TRANSIENT 1000 Immunity test system	NT-325	<input type="checkbox"/>	Highpass-Filter 1800 MHz – 16 GHz	NT-415


Division Medical
Technology/
Communication
Technology/ EMC

Department: FG

Test report number:
M/FG-12/102

Page: 2 of 3

Date: 25.01.2012

Checked by: 

Appendix 1 (continued)

Test equipment used

<input type="checkbox"/>	Highpass-Filter 3500 MHz – 18 GHz	NT-416	<input type="checkbox"/>	FCC-801-S25 Coupling decoupling network	NT-462
<input type="checkbox"/>	RF-Attenuator 10 dB DC – 18 GHz / 50 W	NT-417	<input type="checkbox"/>	FCC-801-T4 Coupling decoupling network	NT-463
<input type="checkbox"/>	RF-Attenuator 6 dB DC – 18 GHz / 50 W	NT-418	<input type="checkbox"/>	FCC-801-C1 Coupling decoupling network	NT-464
<input type="checkbox"/>	RF-Attenuator 3 dB DC – 18 GHz / 50 W	NT-419	<input type="checkbox"/>	F-16A - Current probe 1kHz - 70MHz	NT-465
<input type="checkbox"/>	RF-Attenuator 20 dB DC - 1000 MHz / 25 W	NT-421	<input type="checkbox"/>	95242-1 – Current probe 1 MHz – 400 MHz	NT-468
<input type="checkbox"/>	RF-Attenuator 30 dB DC - 1000 MHz / 1 W	NT-423	<input type="checkbox"/>	94106-1L-1 – Current probe 100 kHz – 450 MHz	NT-471
<input type="checkbox"/>	RF-Attenuator 30 dB	NT-424	<input type="checkbox"/>	GA 1240 Power amplifier according to EN 61000-4-16	NT-480
<input type="checkbox"/>	RF-Attenuator 6 dB DC - 1000 MHz / 1 W	NT-425	<input type="checkbox"/>	Coupling networks according to EN 61000-4-16	NT-481 - NT-483
<input type="checkbox"/>	RF-Attenuator 6 dB DC - 1000 MHz / 1 W	NT-426	<input type="checkbox"/>	Van der Hoofden Test Head	NT-484
<input type="checkbox"/>	RF-Attenuator 6 dB	NT-428	<input type="checkbox"/>	PC P4 3 GHz Test computer	NT-500
<input type="checkbox"/>	RF-Attenuator 0 dB - 81 dB	NT-429	<input type="checkbox"/>	PC P4 1700 MHz Notebook	NT-505
<input type="checkbox"/>	WRU 27 - Band blocking 27 MHz	NT-430	<input type="checkbox"/>	Monitoring camera with Monitor	NT-511
<input type="checkbox"/>	WHJ450C9 AA - High pass 450 MHz	NT-431	<input type="checkbox"/>	ES-K1 Version 1.71 SP2 Test software	NT-520
<input type="checkbox"/>	WHJ250C9 AA - High pass 250 MHz	NT-432	<input type="checkbox"/>	EMC32 Version 8.52 Test software	NT-520/1
<input type="checkbox"/>	RF-Load 150 W	NT-433	<input type="checkbox"/>	SRM-TS Version 1.3 software for SRM-3000	NT-522
<input type="checkbox"/>	Impedance transducer 1:4 ; 1:9 ; 1:16	NT-435	<input type="checkbox"/>	SPS-PHE Test software V2.5 voltage fluctuations/harmonics	NT-525
<input type="checkbox"/>	RF-Attenuator DC – 18 GHz 6 dB	NT-436	<input type="checkbox"/>	SPS-EM Test software V4.0 EN61000-4-11	NT-527
<input type="checkbox"/>	RF-Attenuator DC – 18 GHz 6 dB	NT-437	<input type="checkbox"/>	Noise power test apparatus according to EN 55014	NT-530
<input type="checkbox"/>	RF-Attenuator DC – 18 GHz 10 dB	NT-438	<input type="checkbox"/>	Vertical coupling plane (ESD)	NT-531
<input type="checkbox"/>	RF-Attenuator DC – 18 GHz 20 dB	NT-439	<input type="checkbox"/>	Test cable #4 for EN 61000-4-6	NT-553
<input type="checkbox"/>	I+P 7780 Directional coupler 100 - 2000 MHz	NT-440	<input type="checkbox"/>	Test cable #3 for conducted emission	NT-554
<input type="checkbox"/>	ESH3-Z2 - Pulse limiter 9 kHz - 30 MHz	NT-441	<input type="checkbox"/>	Test cable #5+#6 ESD-cable (2x470k)	NT-555 + NT-556
<input type="checkbox"/>	Power Divider 6 dB/1 W/50 Ohm	NT-443	<input type="checkbox"/>	Test cable #8 Sucoflex 104EA	NT-559
<input type="checkbox"/>	Directional coupler 0,1 MHz – 70 MHz	NT-444	<input type="checkbox"/>	Test cable #9 (for outdoor measurements)	NT-580
<input type="checkbox"/>	Directional coupler 0,1 MHz – 70 MHz	NT-445	<input type="checkbox"/>	Test cable #10 (for outdoor measurements)	NT-581
<input type="checkbox"/>	Tube imitations according to EN 55015	NT-450	<input type="checkbox"/>	Test cable #13 Sucoflex 104PE	NT-584
<input type="checkbox"/>	FCC-801-M3-16A Coupling decoupling network	NT-458	<input type="checkbox"/>	Test cable #21 for SRM-3000	NT-592
<input type="checkbox"/>	FCC-801-M2-50A Coupling decoupling network	NT-459	<input type="checkbox"/>	Shield chamber	NT-600
<input type="checkbox"/>	FCC-801-M5-25 Coupling decoupling network	NT-460	<input type="checkbox"/>	Climatic chamber	M-1200
<input type="checkbox"/>	FCC-801-AF10 Coupling decoupling network	NT-461			

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Appendix 2 Photodocumentation

Description: Backside view

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Appendix 2 Photodocumentation

Description: Lower side

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EMC

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Appendix 2 Photodocumentation

Description: Label

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EMC

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Appendix 2 Photodocumentation

Description: Case opened


Division Medical Technology/
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EMC

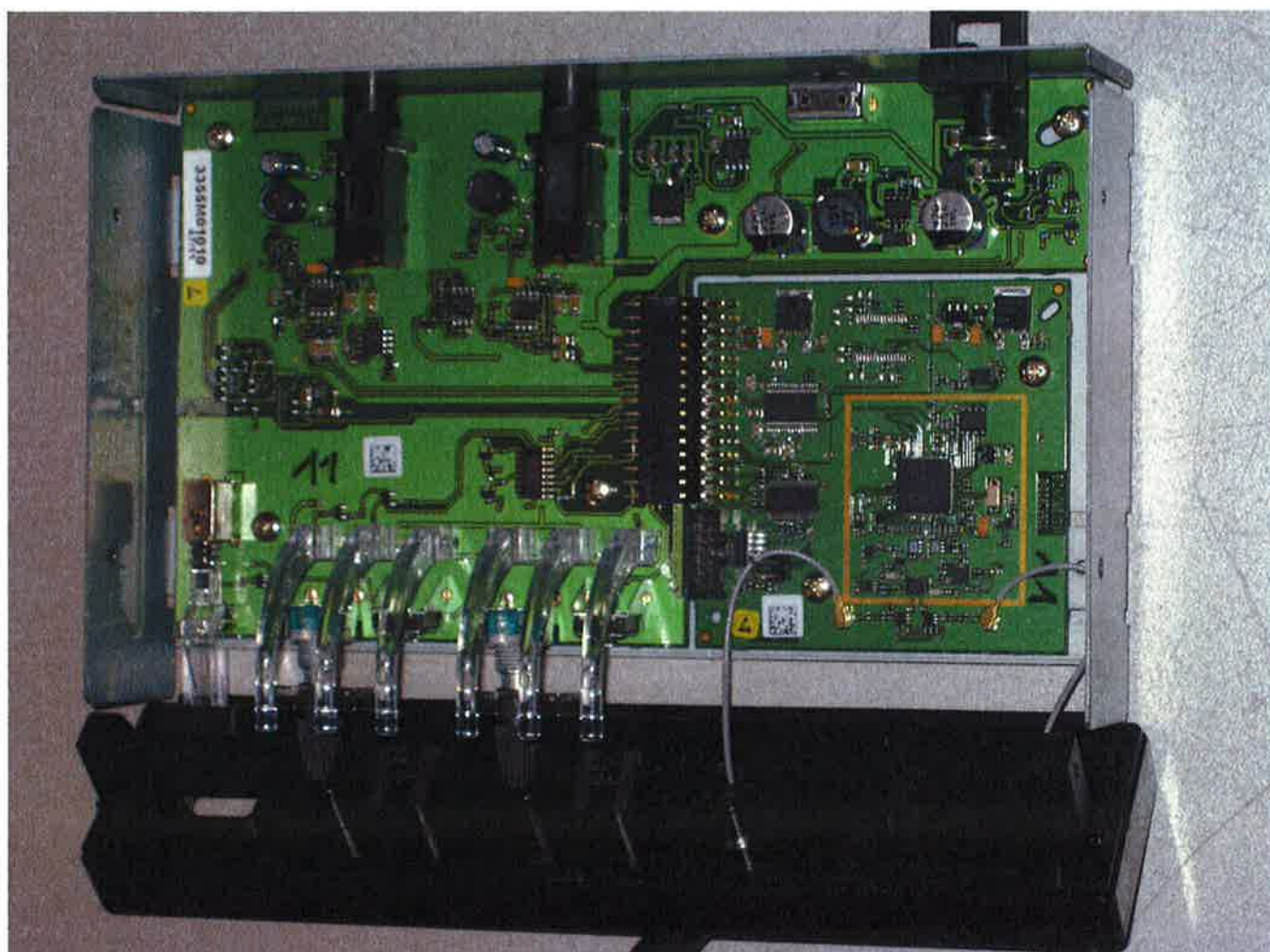
Department: FG

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Appendix 2 Photodocumentation

Description: Mainboard view #1


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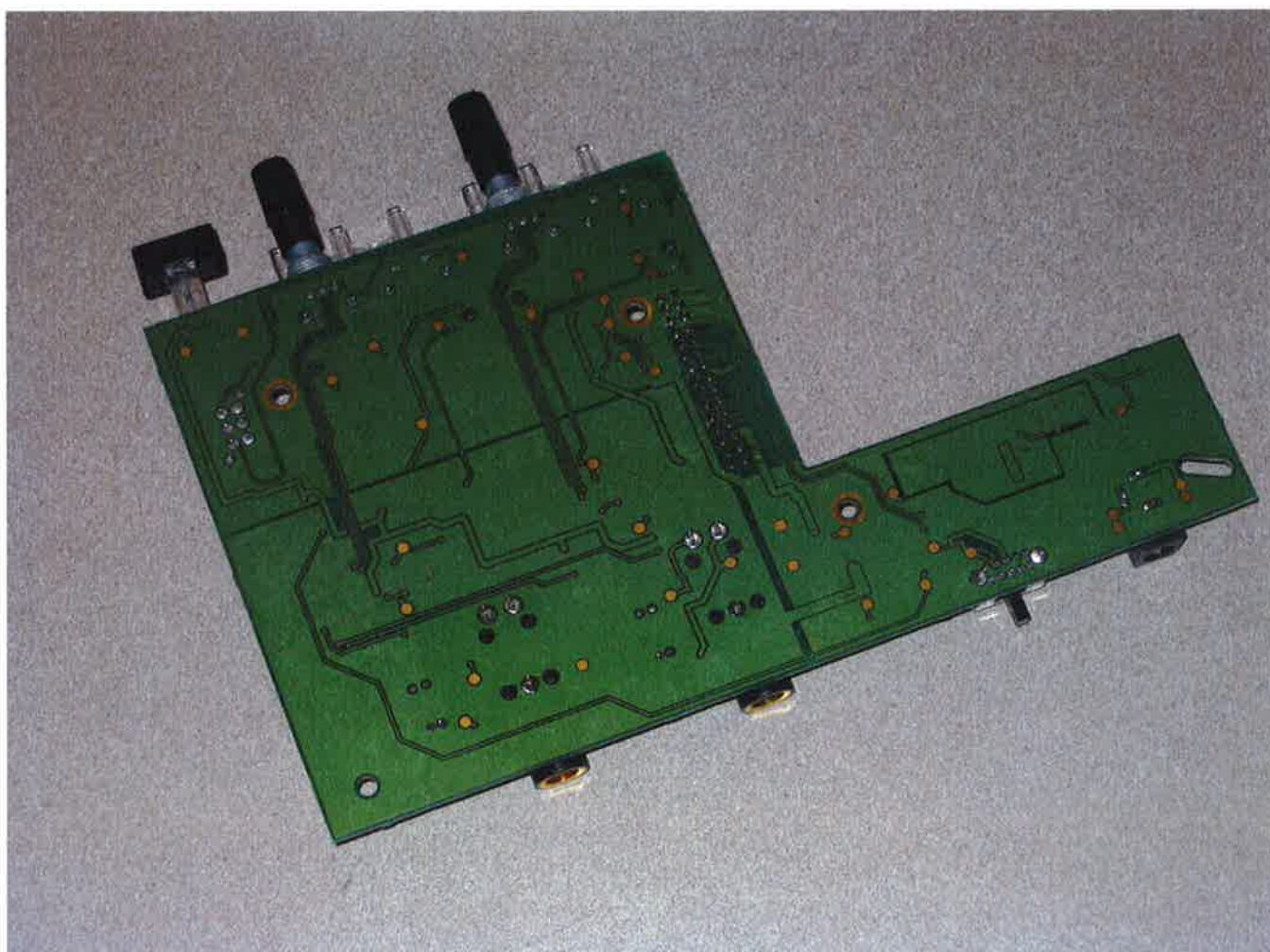
Department: FG

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Appendix 2 Photodocumentation

Description: Mainboard view #2

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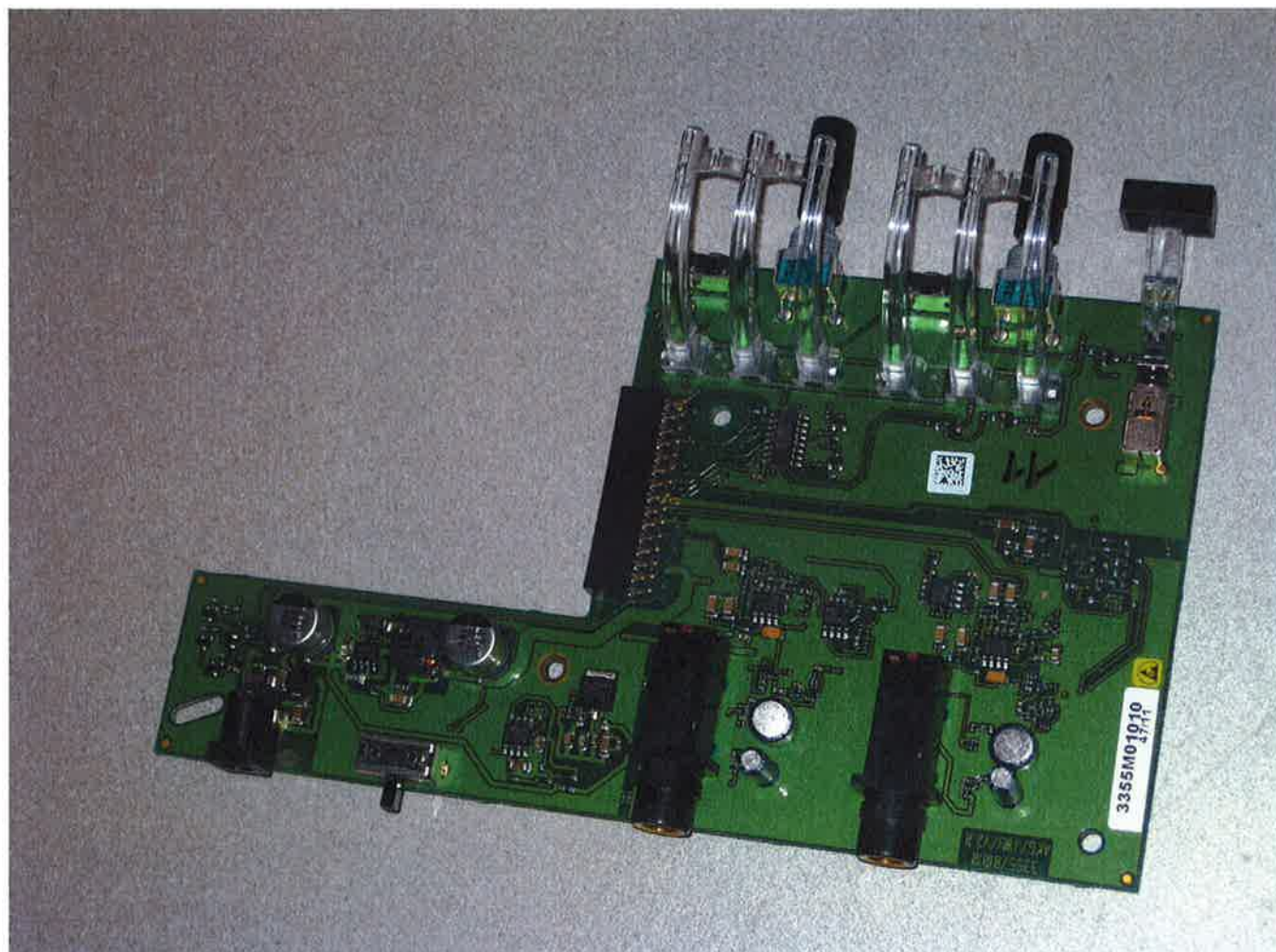
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Appendix 2 Photodocumentation

Description: RF-board view #1

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EMC

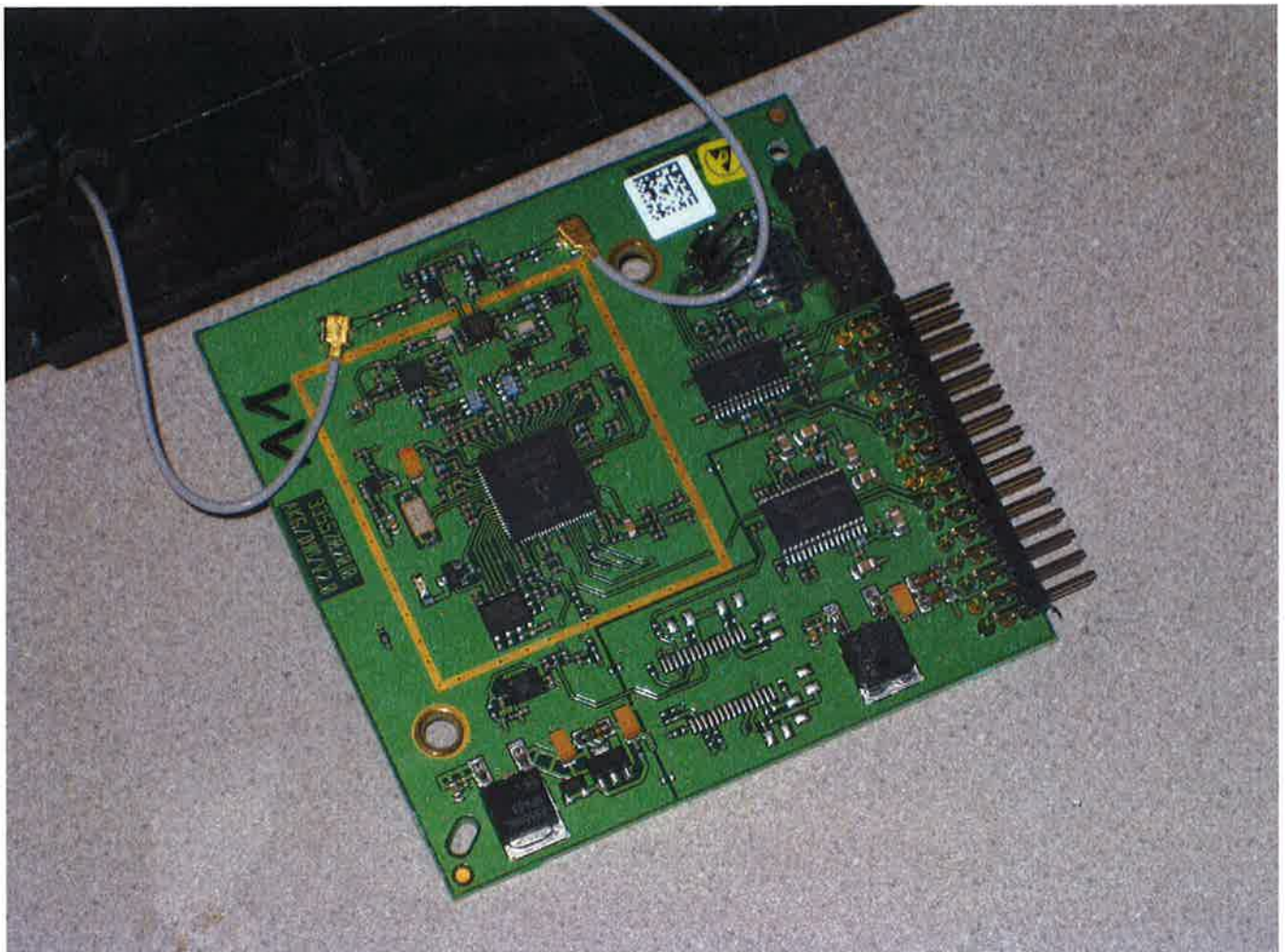
Department: FG

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Appendix 2 Photodocumentation

Description: RF-board view #2


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EMC

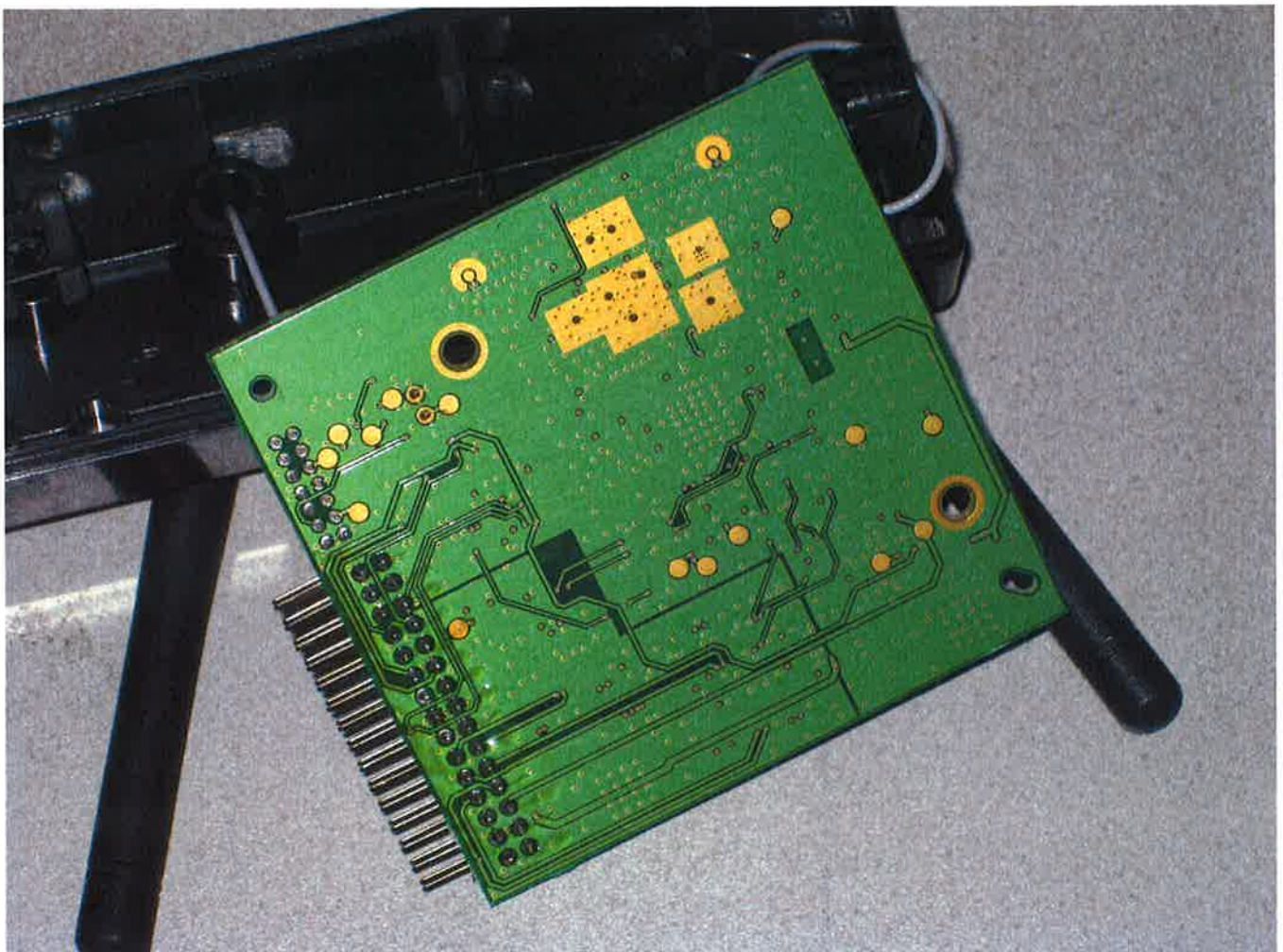
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Appendix 2 Photodocumentation

Description: Test setup

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