

Prüfbericht-Nr.: <i>Test Report No.:</i>	10045580 001	Auftrags-Nr.: <i>Order No.:</i>	114011368	Seite 1 von 104 <i>Page 1 of 104</i>	
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	June 11, 2013		
Auftraggeber: <i>Client:</i>	Allied Telesis Labs Raleigh, 900 Main Campus Drive, Suite 301, Raleigh, NC 27516, USA				
Prüfgegenstand: <i>Test item:</i>	Intelligent Multiservice Gateway				
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	AT-iMG1425W, AT-iMG1405W				
Auftrags-Inhalt: <i>Order content:</i>	FCC Part 15C Test report				
Prüfgrundlage: <i>Test specification:</i>	FCC 47CFR Part 15: Subpart C Section 15.247 RSS-210 (12-2010) A8				
Wareneingangsdatum: <i>Date of receipt:</i>					
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000035120-001				
Prüfzeitraum: <i>Testing period:</i>	January 9, 2014 - January 14, 2014				
Ort der Prüfung: <i>Place of testing:</i>	EMC Laboratory Taipei				
Prüflaboratorium: <i>Testing laboratory:</i>	TUV Rheinland Taiwan Ltd.				
Prüfergebnis*: <i>Test result*:</i>	Pass				
geprüft von / tested by:					
2014-02-13	Danny S. C. Sung/Project Manager		kontrolliert von / reviewed by:		
Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	
Sonstiges / Other:					
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>				
* Legende: P(ass) = entspricht o.g. Prüfgrundlage(n)	1 = sehr gut	2 = gut	3 = befriedigend	4 = ausreichend	5 = mangelhaft
Legend: P(ass) = passed a.m. test specification(s)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	F(ail) = failed a.m. test specification(s)	N/A = nicht anwendbar	N/T = nicht getestet	
	1 = very good	2 = good	3 = satisfactory	4 = sufficient	5 = poor
	P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested	
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>					

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## TEST SUMMARY

### 5.1.1 ANTENNA REQUIREMENT

*RESULT: Passed*

### 5.1.2 PEAK OUTPUT POWER

*RESULT: Passed*

### 5.1.3 6dB AND 99% BANDWIDTH

*RESULT: Passed*

### 5.1.4 POWER DENSITY

*RESULT: Passed*

### 5.1.5 CONDUCTED SPURIOUS EMISSIONS AND FREQUENCY BAND EDGE MEASURED IN 100kHz BANDWIDTH

*RESULT: Passed*

### 5.1.6 SPURIOUS EMISSION

*RESULT: Passed*

### 5.2.1 MAINS CONDUCTED EMISSIONS

*RESULT: Passed*

### 6.1.1 ELECTROMAGNETIC FIELDS

*RESULT: Passed*

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## 1. General Remarks

### 1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

**Appendix P: Photo Documentation external view**

(File Name: 10045580APPENDIX P)

**Appendix D: Test Result of Radiated Emissions**

(File Name: 10045580APPENDIX D)

Test Specifications

The following standards were applied::

**Table 1: Applied Standard and Test Levels**

Radio
FCC CFR47 Part 15: Subpart C Section 15.247 ANSI C63.10:2009, KDB558074 D01 DTS Meas Guidance v03 KDB662911 D01 Multiple Transmitter Output KDB662911 D02 MIMO with Cross-Polarized Antennas RSS-210 (12-2010) Issue 8

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## 2. Test Sites

### 2.1 Test Facilities

TUV Rheinland Taiwan Ltd.

11F. No.758, Sec. 4, Bade Rd., Songshan Dist.  
Taipei City 105  
Taiwan (R.O.C.)

FCC Registration No.: 365730  
TAF Accredited NCC Test Lab. No.:0759  
TAF ISO17025 Certification effective periods: 2013-Jul-1st to 2016-Jun-30th



**Testing Laboratory**  
**0759**

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## 2.2 List of Test and Measurement Instruments

**Table 2: List of Test and Measurement Equipment**

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
EMI Test Receiver	R&S	ESCI 7	101062	1-Sep-14
Bilog Antenna	TESEQ	CBL6111D	29802	29-Jun-14
Spectrum Analyzer	R&S	FSV 40	100921	10-Dec-14
Horn Antenna	ETS-Lindgren	3117	138160	10-Jan-15
Horn Antenna (18GHz~40GHz)	COM-POWER	AH840	101031	29-Oct-15
Preamplifier (30MHz -1GHz)	HP	8447F	2805A03335	2-Sep-14
Preamplifier (18 GHz -40 GHz)	COM-POWER	PAM-840	461257	2-Sep-14
Pre-Amplifier (1GHz~18GHz)	EM Electronics	EM30180	60558	23-Oct-14
Loop Antenna	Schwarzbeck	FMZB 1513	1513-076	28-Sep-14
EMI Test Receiver	R&S	ESCI	101094	29-Aug-14
LISN (1 phase)	R&S	ENV216	101243	5-Jun-14
LISN	Rolf Heine	NNB-2/16Z	99080	30-Aug-14

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## 2.3 Traceability

All measurement equipment calibrations are traceable to NML(Taiwan)/NIST(USA) or where calibration is performed outside Taiwan, to equivalent nationally recognized standards organizations.

## 2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

## 2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements are  $\pm 3$ dB.

**Table 3: Emission Measurement Uncertainty**

Parameter	Uncertainty
RF power, conducted	$\pm 1$ dB
Adjacent channel power	$\pm 3$ dB
Radiated emission of transmitter, valid up to 26 GHz	$\pm 6$ dB
Radiated emission of receiver, valid up to 26 GHz	$\pm 6$ dB
Temperature	$\pm 2$ °C
Humidity	$\pm 10$ %

### 3. General Product Information

#### 3.1 Product Function and Intended Use

The EUT is a fiber optic fed Network Gateway which includes a Wireless 802.11 b/g/n WiFi access point. The model AT-iMG1405W is a depopulated version (some VoIP components removed) of the model AT-iMG1425W. The model tested is AT-iMG1425W.  
For details refer to the User Guide, Data Sheet and Circuit Diagram.

#### 3.2 Ratings and System Details

**Table 4: Technical Specification of EUT**

Technical Specification	Value
Kind of Equipment	Intelligent Multiservice Gateway
FCC ID	XA5-IMG1425W IC ID:11704A-IMG14X5
Type Designation	AT-iMG1425W, AT-iMG1405W
Operating Frequencies	2412~2462MHz
Channel Spacing	5 MHz for highest and lowest channel
Channel number	11
Operation Voltage	115V / 230 V
Modulation	CCK, DQPSK, DBPSK for DSSS; QAM, QPSK, BPSK for OFDM
Antenna gain	3.4 dBi

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### 3.3 Independent Operation Modes

Basic operation modes are:

- A. Transmitting
  - 1. Low channel
  - 2. Middle channel
  - 3. High channel
- B. Receiving
- C. Standby
- D. Off

### 3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

### 3.5 Submitted Documents

- Technical Description
- Instruction Manual
- Photo Document
- Rating Label

## 4. Test Set-up and Operation Modes

### 4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

### 4.2 Test Operation and Test Software

Setup for testing: Production samples are provided with a Data interface through which can be set frequency and modulation

This software was running on the laptop computer connected to the EUT. It was used to enable the operation modes listed in section 3.3 as appropriate. The samples were used as follows:

Conducted: A000035120-001

Radiation: A000035120-001

Full test was applied on all test modes, but only worst case was shown.

### 4.3 Special Accessories and Auxiliary Equipment

The product has been tested together with the following additional accessories:

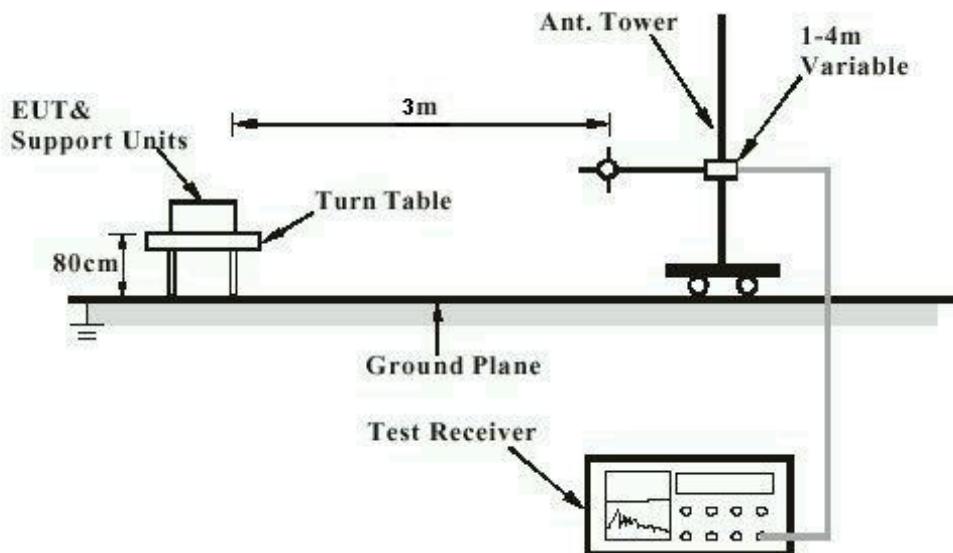
Kind of Equipment	Manufacturer	Model Name	S/N
Notebook	HP	HSTNN-Q78C-3	CNF0339QBM

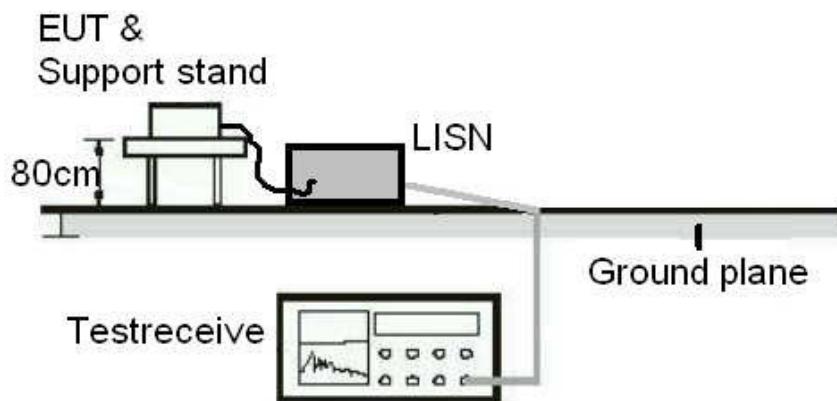
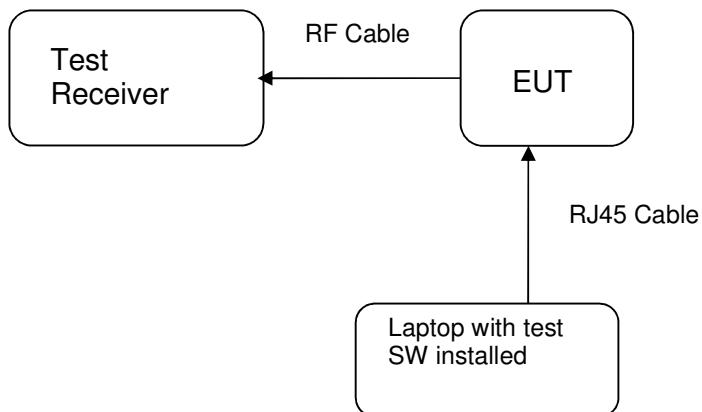
## 4.4 Countermeasures to achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

## 4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test



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Page 12 of 104**Diagram of Measurement Equipment Configuration for Mains Conduction Measurement (if applicable)****Diagram of Measurement Equipment Configuration for Conducted Transmitter Measurement**

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## 5. Test Results

### 5.1 Transmitter Requirement & Test Suites

#### 5.1.1 Antenna Requirement

**RESULT:** Passed

Test standard	:	FCC Part 15.247(b)(4), Part 15.203 and RSS-Gen 7.1.4
Limit	:	the use of antennas with directional gains that do not exceed 6 dBi

According to the manufacturer declaration, the EUT has an internal antenna with an directional gain of 3.4 dBi , and the antenna is Dipole Antenna fixed to inside of the enclosure with no possibility of replacement. Therefore, the EUT is considered to comply the provision.

Refer to EUT photo for details.

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### 5.1.2 Peak Output Power

**RESULT:****Passed**

Test standard	:	FCC Part 15.247(b)(3), RSS-210 A8.4(4)
Basic standard	:	ANSI C63.10:2009, KDB558074
Limit	:	1 Watt
Kind of test site	:	Shielded room

**Test setup**

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A
Ambient temperature	:	18-22 °C
Relative humidity	:	50-65 %
Atmospheric pressure	:	100-103 kPa

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**Table 5: Test results of Peak Output Power Antenna 1**

Ant 1 Mode:	802.11b	DSSS	Pmax: 183.231 mW QPSK (HT17)		
Channel	Frequency MHz	Power dBm	Power mW	Limit	Result
Low	2412	22.63	183.231	500mW	Pass
Mid	2437	22.33	171.002	500mW	Pass
High	2462	22.55	179.887	500mW	Pass

Ant 1 Mode:	802.11g	OFDM	Pmax: 72.444 mW BPSK (HT20)		
Channel	Frequency MHz	Power dBm	Power mW	Limit	Result
Low	2412	18.53	71.285	500mW	Pass
Mid	2437	18.32	67.920	500mW	Pass
High	2462	18.6	72.444	500mW	Pass

Ant 1 Mode:	802.11n	OFDM	Pmax: 73.114 mW QPSK (HT20)		
Channel	Frequency MHz	Power dBm	Power mW	Limit	Result
Low	2412	18.36	68.549	500mW	Pass
Mid	2437	18.24	66.681	500mW	Pass
High	2462	18.64	73.114	500mW	Pass

Ant 1 Mode:	802.11n	OFDM	Pmax: 33.113 mW QPSK (HT40)		
Channel	Frequency MHz	Power dBm	Power mW	Limit	Result
Low	2422	15.2	33.113	500mW	Pass
Mid	2437	14.39	27.479	500mW	Pass
High	2452	14.89	30.832	500mW	Pass

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**Table 6: Test results of Peak Output Power Antenna 2**

Ant 2 Mode: 802.11b DSSS Pmax: 256.448 mW  
 QPSK (HT17)

Channel	Frequency MHz	Power dBm	Power mW	Limit	Result
Low	2412	24.09	256.448	500mW	Pass
Mid	2437	23.76	237.684	500mW	Pass
High	2462	23.22	209.894	500mW	Pass

Ant 2 Mode: 802.11g OFDM Pmax: 141.579 mW  
 BPSK (HT20)

Channel	Frequency MHz	Power dBm	Power mW	Limit	Result
Low	2412	21.51	141.579	500mW	Pass
Mid	2437	20.13	103.039	500mW	Pass
High	2462	19.64	92.045	500mW	Pass

Ant 2 Mode: 802.11n OFDM Pmax: 110.408 mW  
 QPSK (HT20)

Channel	Frequency MHz	Power dBm	Power mW	Limit	Result
Low	2412	20.43	110.408	500mW	Pass
Mid	2437	19.68	92.897	500mW	Pass
High	2462	19.29	84.918	500mW	Pass

Ant 2 Mode: 802.11n OFDM Pmax: 54.954 mW  
 QPSK (HT40)

Channel	Frequency MHz	Power dBm	Power mW	Limit	Result
Low	2422	16.1	40.738	500mW	Pass
Mid	2437	17.4	54.954	500mW	Pass
High	2452	15.7	37.154	500mW	Pass

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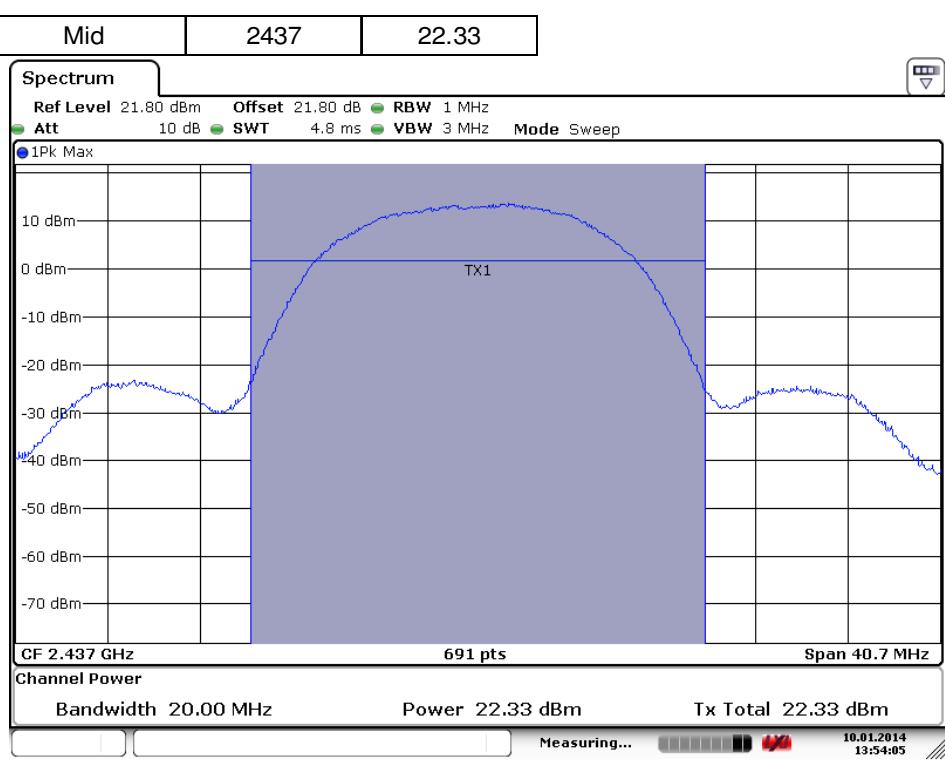
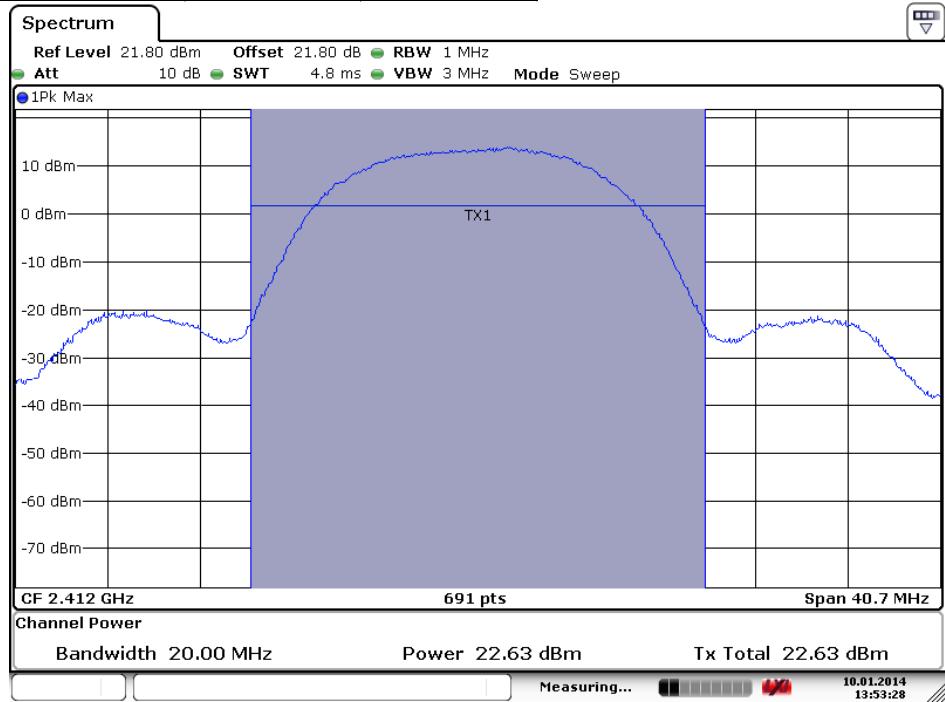
## Result Diagrams

<b>ANT 1 MODE:</b>	<b>802.11B DSSS DBPSK (HT17).....</b>	<b>18</b>
<b>ANT 1 MODE:</b>	<b>802.11G OFDM BPSK (HT20) .....</b>	<b>20</b>
<b>ANT 1 MODE:</b>	<b>802.11N OFDM BPSK (HT20).....</b>	<b>22</b>
<b>ANT 1 MODE:</b>	<b>802.11N OFDM BPSK (HT40).....</b>	<b>24</b>
<b>ANT 2 MODE:</b>	<b>802.11B DSSS DBPSK (HT17).....</b>	<b>26</b>
<b>ANT 2 MODE:</b>	<b>802.11G OFDM BPSK (HT20) .....</b>	<b>28</b>
<b>ANT 2 MODE:</b>	<b>802.11N OFDM BPSK (HT20).....</b>	<b>30</b>
<b>ANT 2 MODE:</b>	<b>802.11N OFDM BPSK (HT40).....</b>	<b>32</b>
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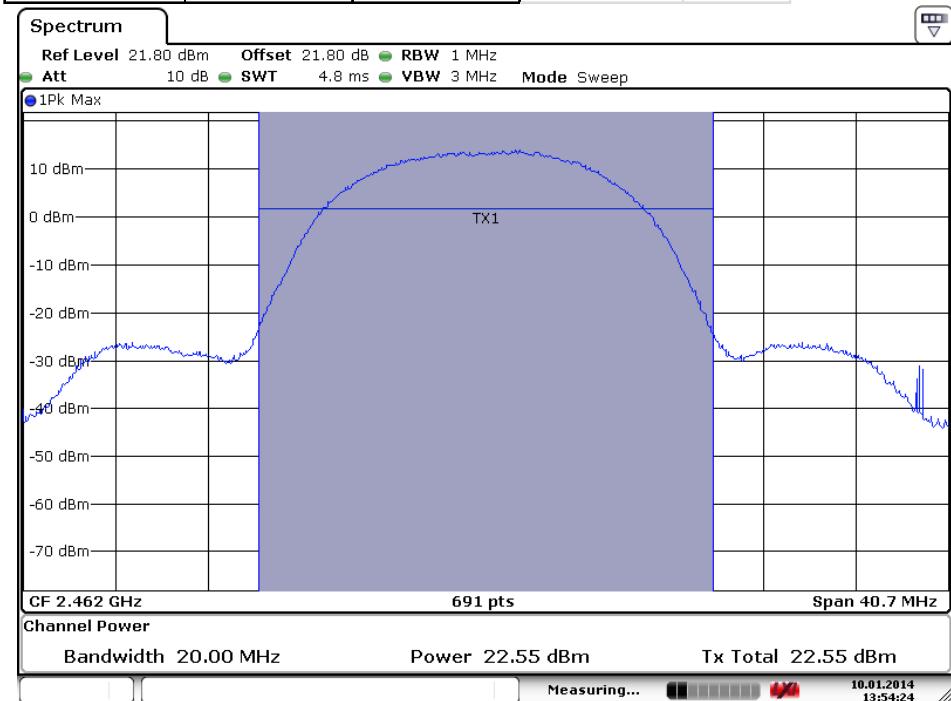
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Ant 1 Mode:	802.11b	DSSS	QPSK	(HT17)
Channel	MHz	dBM		
Low	2412	22.63		



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Ant 1 Mode:	802.11b	DSSS	QPSK	(HT17)
Channel	MHz	dBm		
High	2462	22.55		

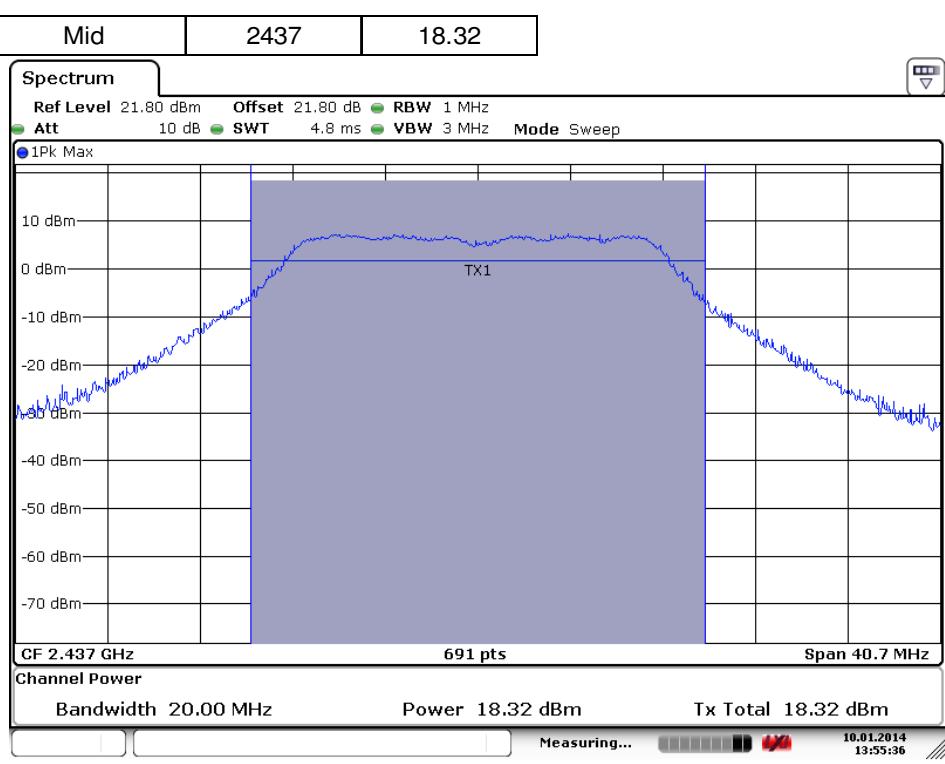
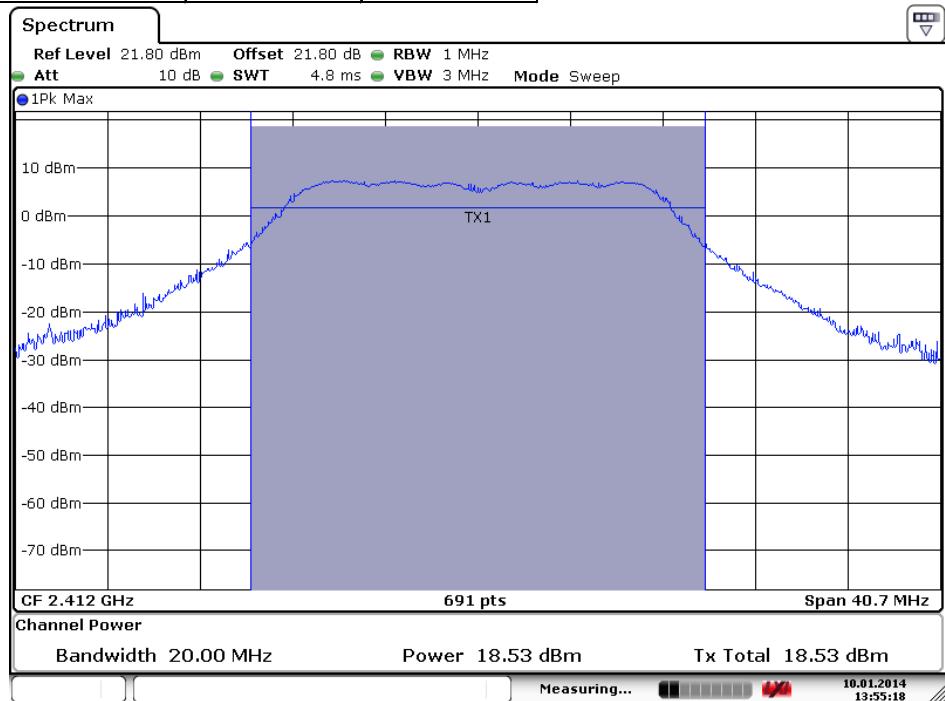


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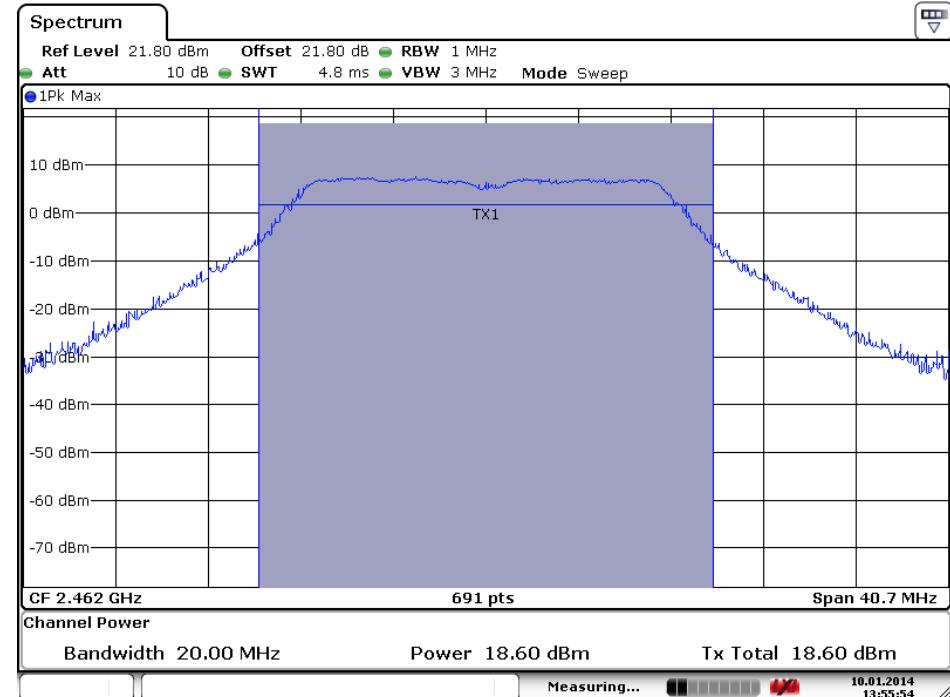
Ant 1 Mode: 802.11g		OFDM BPSK (HT20)
Channel	MHz	dBm
Low	2412	18.53



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Ant 1 Mode:	802.11g	OFDM	BPSK	(HT20)
Channel	MHz	dBm		
High	2462	18.6		



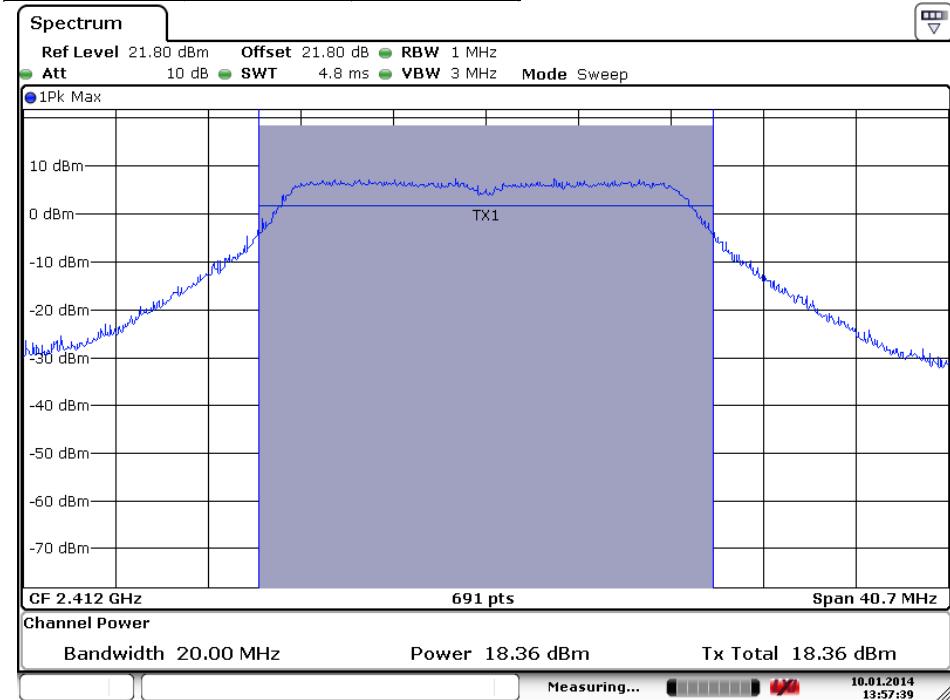
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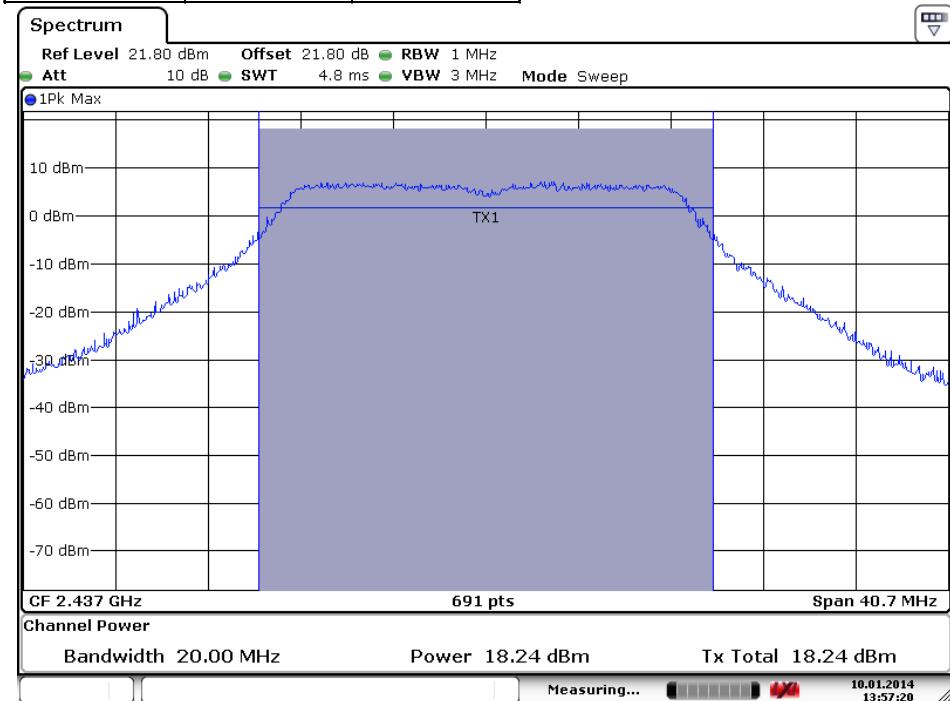
**Ant 1 Mode: 802.11n OFDM QPSK (HT20)**

Channel	MHz	dBm
Low	2412	18.36



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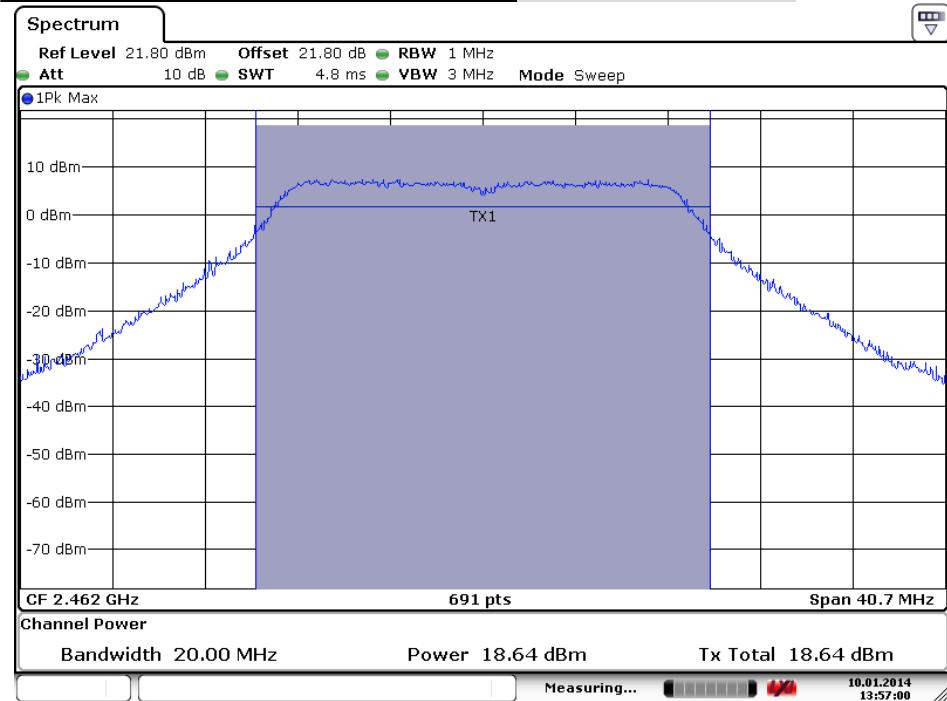
Mid	2437	18.24
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Ant 1 Mode:	802.11n	OFDM	QPSK	(HT20)
Channel	MHz	dBm		
High	2462	18.64		



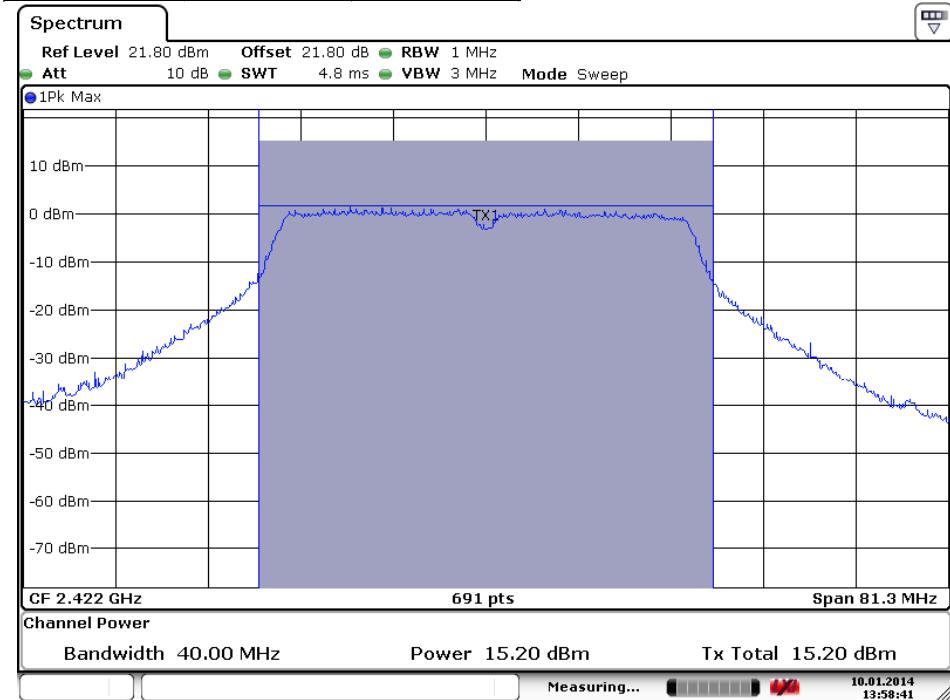
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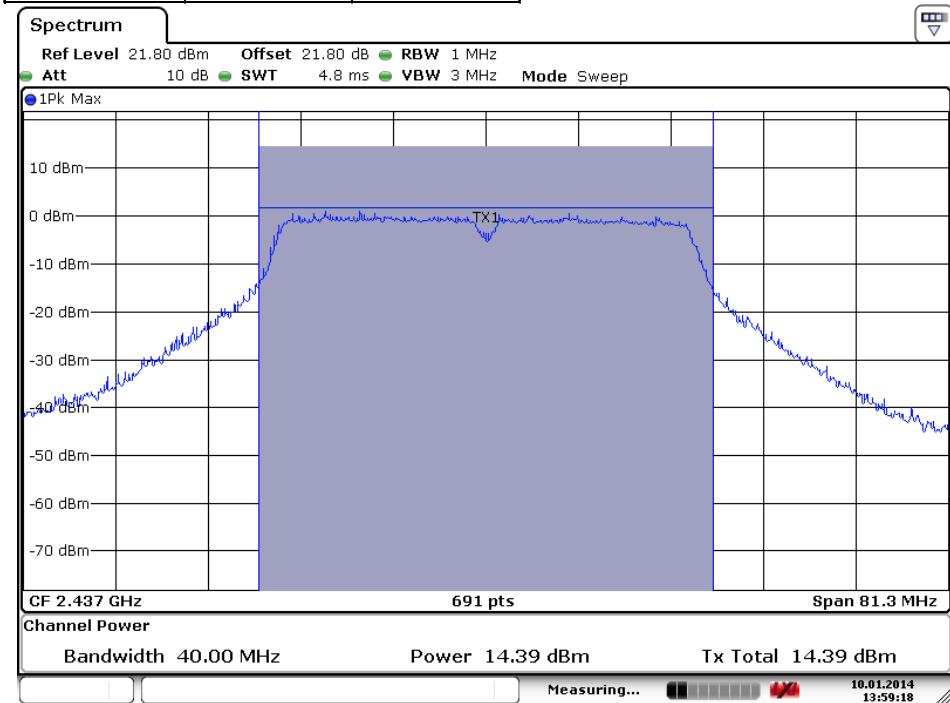
**Ant 1 Mode: 802.11n OFDM QPSK (HT40)**

Channel	MHz	dBm
Low	2422	15.2



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Mid	2437	14.39
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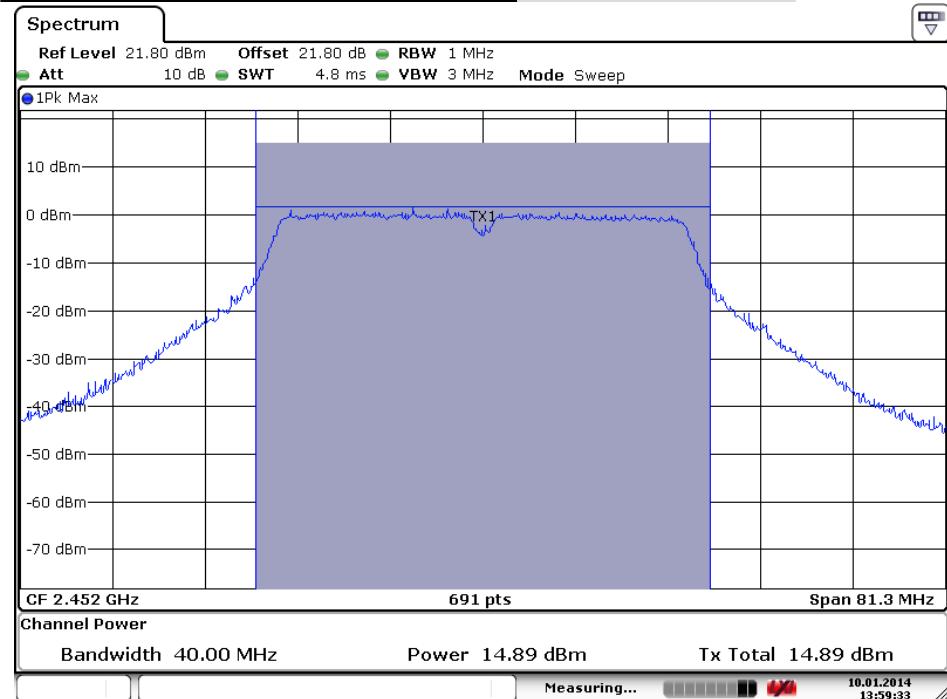


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Ant 1 Mode:	802.11n	OFDM	QPSK	(HT40)
Channel	MHz	dBm		
High	2452	14.89		



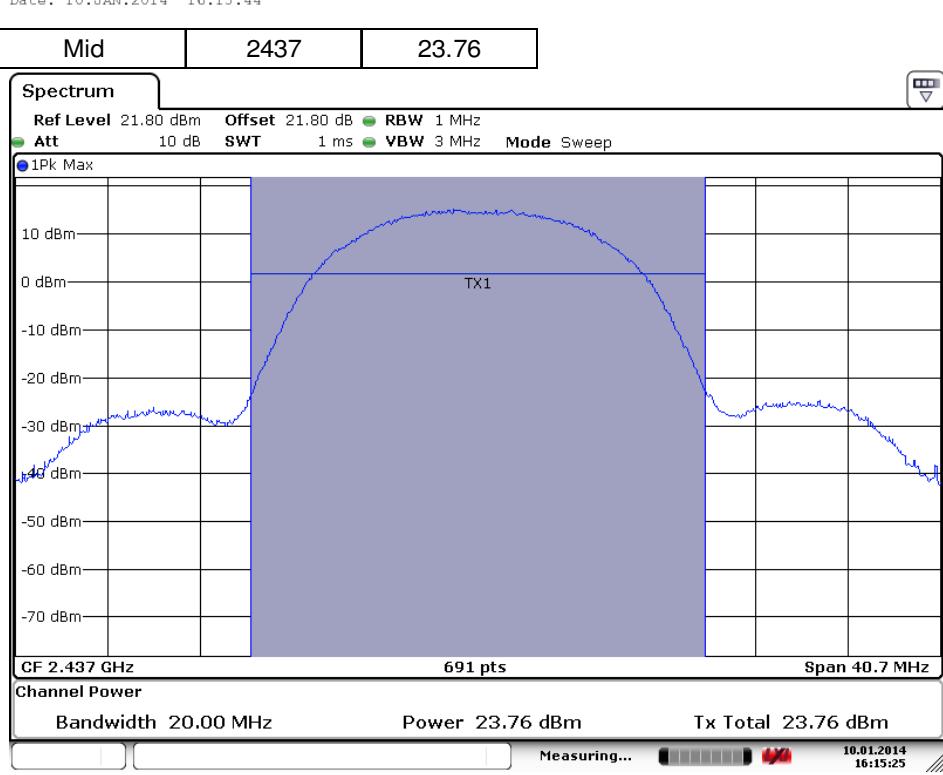
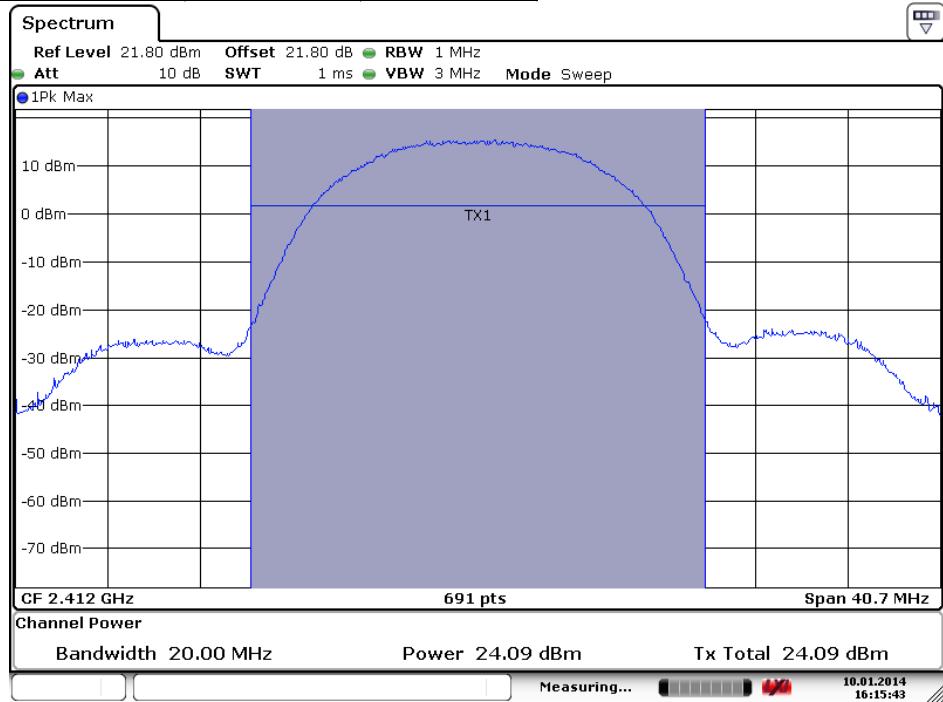
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**Produkte**  
Products

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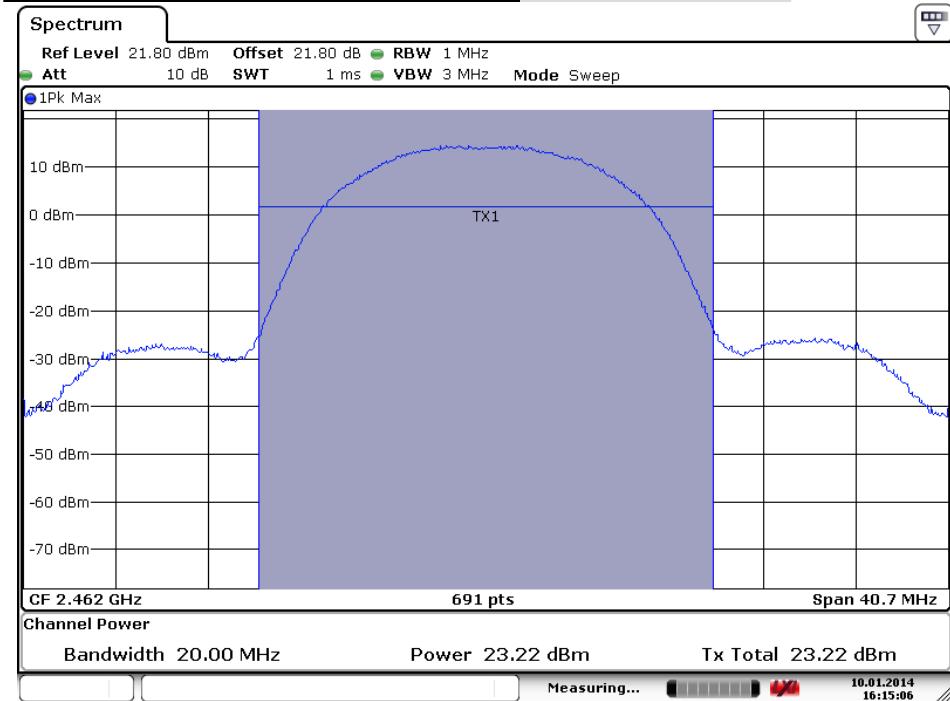
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Ant 2 Mode:	802.11b	DSSS	QPSK	(HT17)
Channel	MHz	dBm		
Low	2412	24.09		



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Ant 2 Mode:	802.11b	DSSS	QPSK	(HT17)
Channel	MHz	dBm		
High	2462	23.22		

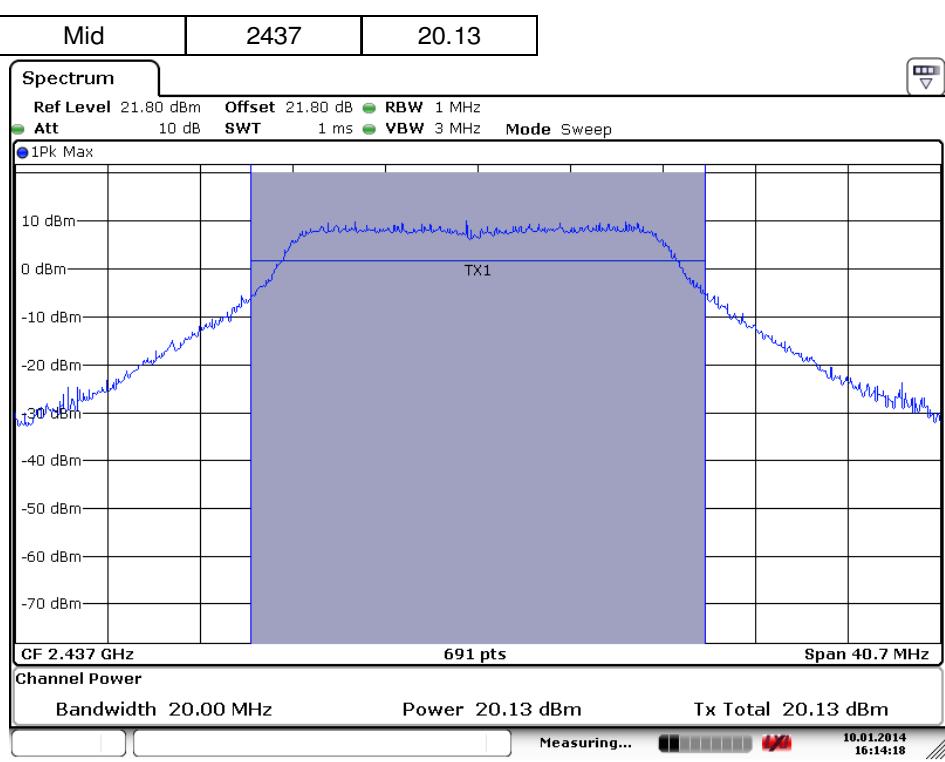
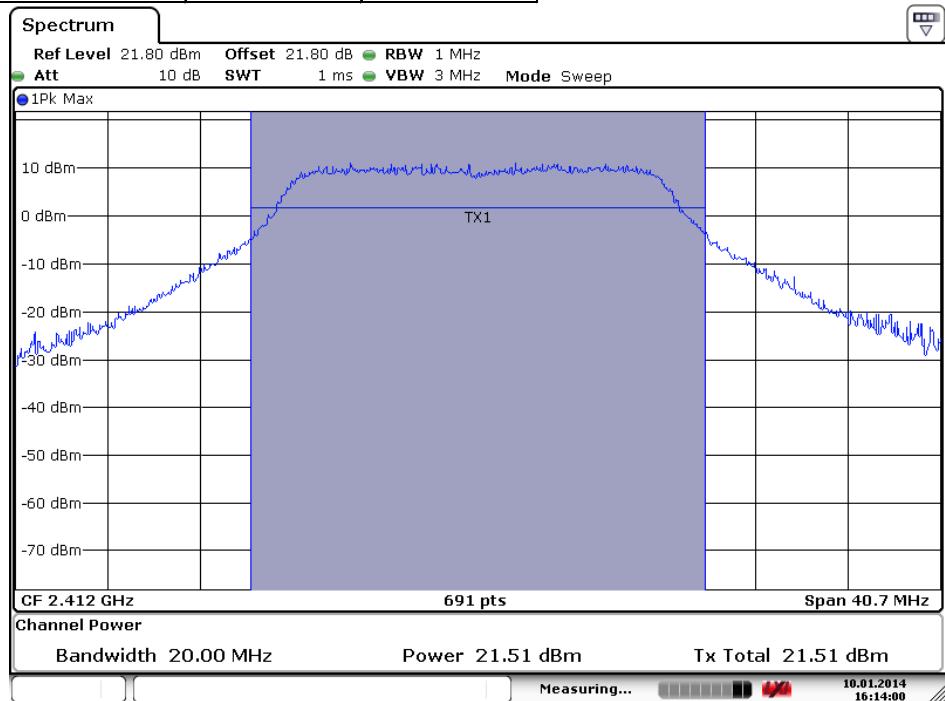


Date: 10.JAN.2014 16:15:06

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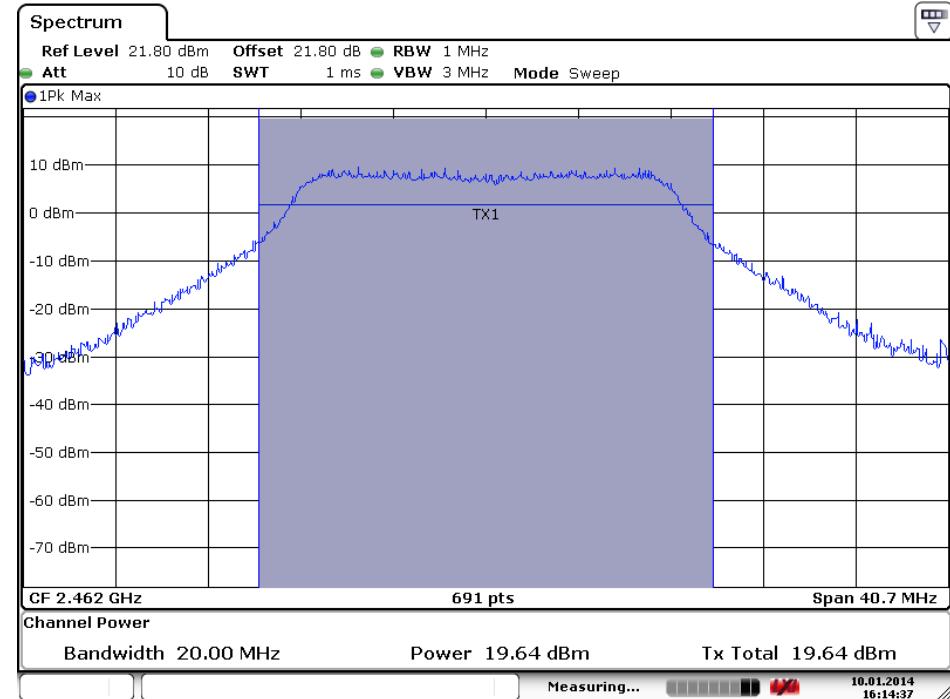
Ant 2 Mode: 802.11g		OFDM BPSK (HT20)
Channel	MHz	dBm
Low	2412	21.51



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Ant 2 Mode:	802.11g	OFDM	BPSK	(HT20)
Channel	MHz	dBm		
High	2462	19.64		



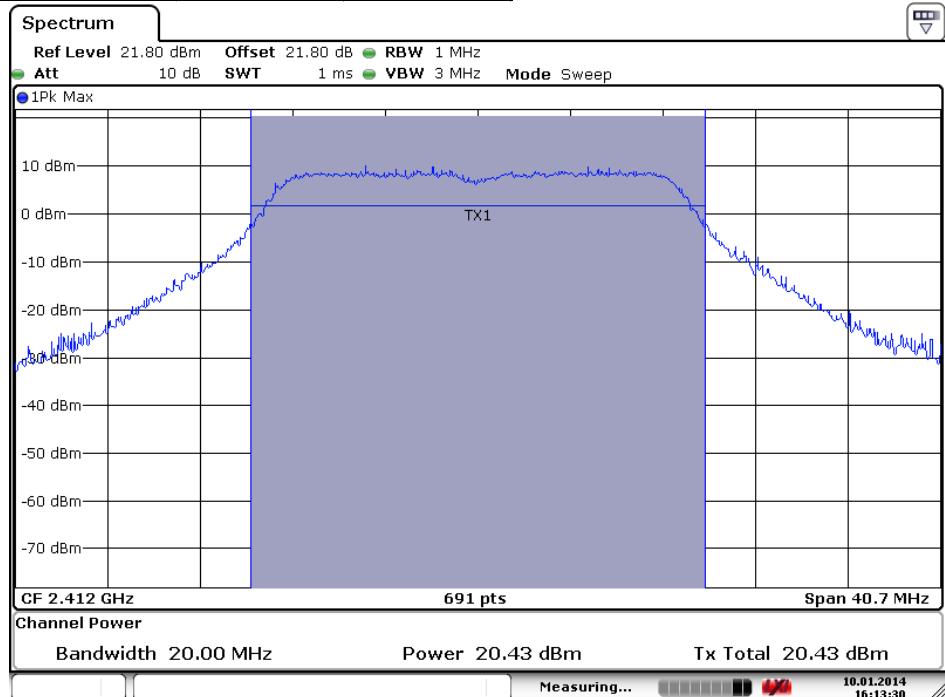
Date: 10.JAN.2014 16:14:37

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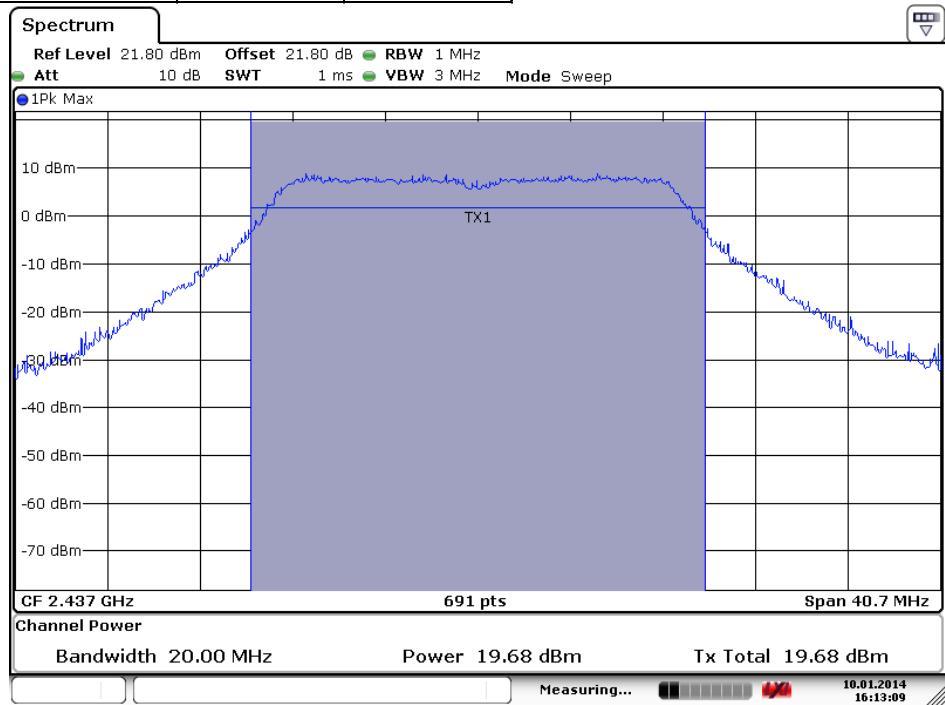
**Ant 2 Mode: 802.11n OFDM QPSK (HT20)**

Channel	MHz	dBm
Low	2412	20.43



Date: 10.JAN.2014 16:13:31

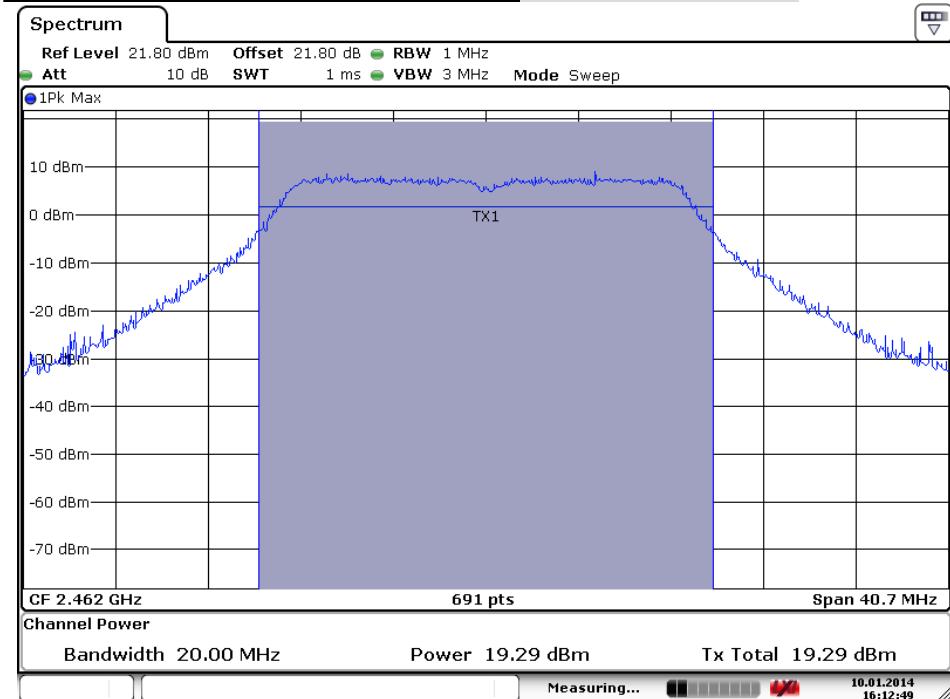
Mid	2437	19.68
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Date: 10.JAN.2014 16:13:09

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Ant 2 Mode:	802.11n	OFDM	QPSK	(HT20)
Channel	MHz	dBm		
High	2462	19.29		



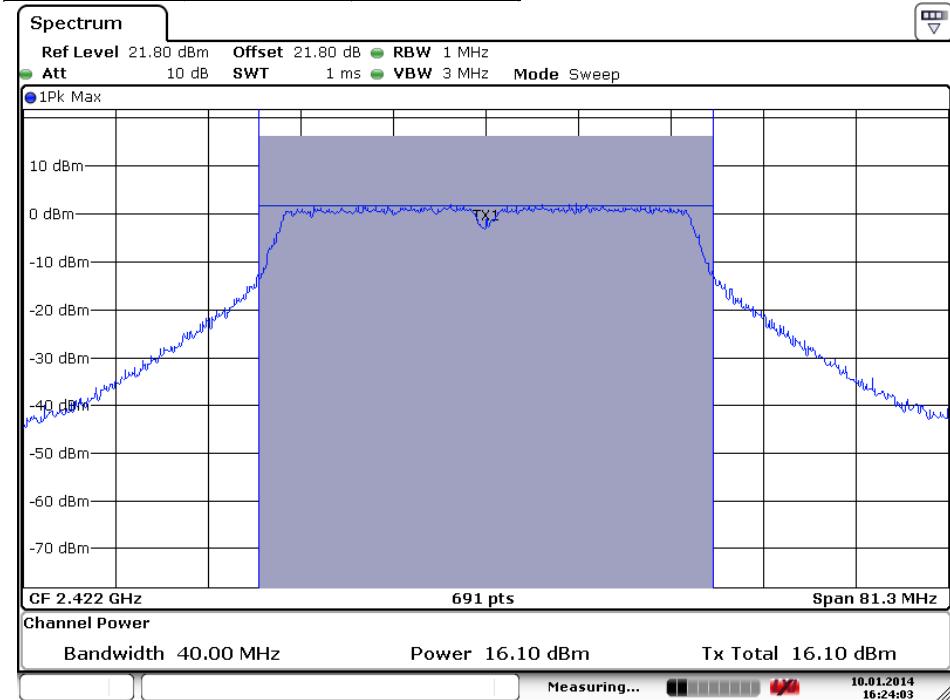
Date: 10.JAN.2014 16:12:49

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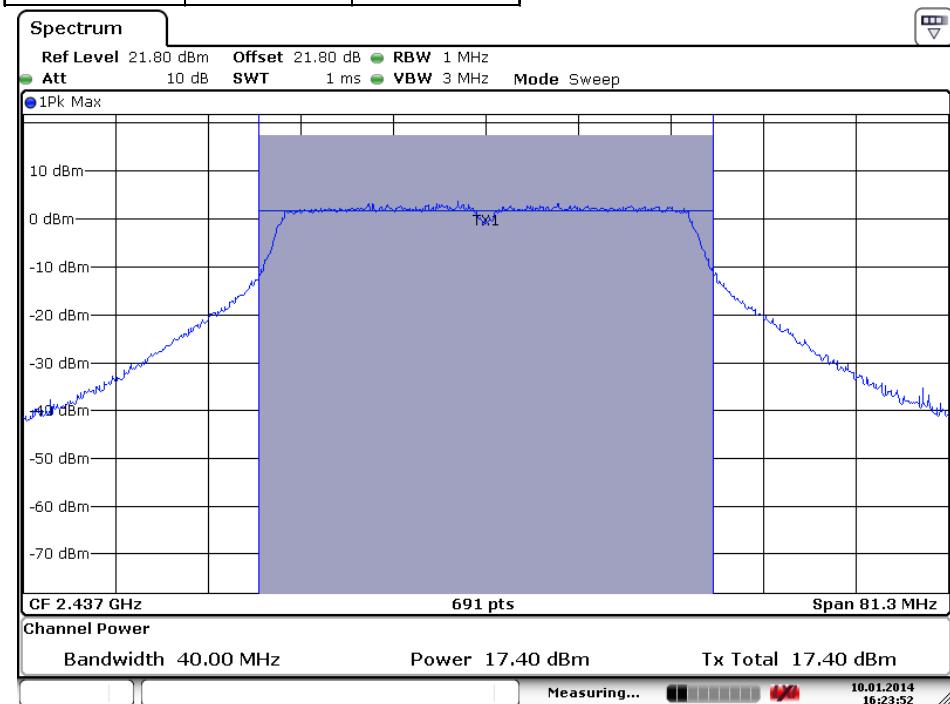
**Ant 2 Mode: 802.11n OFDM QPSK (HT40)**

Channel	MHz	dBm
Low	2422	16.1



Date: 10.JAN.2014 16:24:03

Mid	2437	17.4
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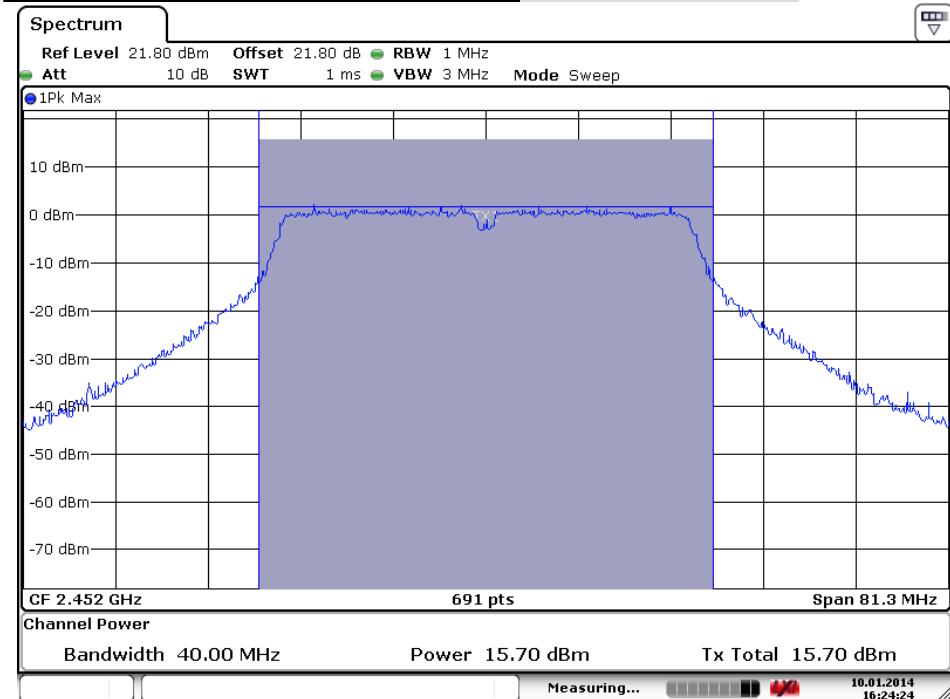


Date: 10.JAN.2014 16:23:53

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Ant 2 Mode:	802.11n	OFDM	QPSK	(HT40)
Channel	MHz	dBm		
High	2452	15.7		



Date: 10.JAN.2014 16:24:25

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### 5.1.3 6dB and 99% Bandwidth

**RESULT:****Passed**

Test standard : FCC Part 15.247(a)(2), RSS-210 A8.2(1)  
RSS-Gen  
Basic standard : ANSI C63.10:2009, KDB558074  
Kind of test site : Shielded room

**Test setup**

Test Channel : Low/ Middle/ High  
Operation Mode : A  
Ambient temperature : 18-22 °C  
Relative humidity : 50-65 %  
Atmospheric pressure : 100-103 kPa

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**Table 7: Test result of 6 dB and 99% Bandwidth, Antenna 1**

Ant 1 Mode: 802.11b DSSS			BW(max): 11071 kHz	
			QPSK (HT17)	
Channel	Frequency MHz	6 dB BW (kHz)	99% BW (kHz)	
Low	2412	11071	13892	>500 Pass
Mid	2437	10203	13892	>500 Pass
High	2462	9378	13806	>500 Pass

Ant 1 Mode: 802.11g OFDM			BW(max): 16411 kHz	
			BPSK (HT20)	
Channel	Frequency MHz	6 dB BW (kHz)	99% BW (kHz)	
Low	2412	16368	17149	>500 Pass
Mid	2437	16411	17149	>500 Pass
High	2462	16411	17192	>500 Pass

Ant 1 Mode: 802.11n OFDM			BW(max): 17757 kHz	
			QPSK (HT20)	
Channel	Frequency MHz	6 dB BW (kHz)	99% BW (kHz)	
Low	2412	17627	18147	>500 Pass
Mid	2437	17713	18147	>500 Pass
High	2462	17757	18191	>500 Pass

Ant 1 Mode: 802.11n OFDM			BW(max): 35890 kHz	
			QPSK (HT40)	
Channel	Frequency MHz	6 dB BW (kHz)	99% BW (kHz)	
Low	2422	35774	37626	>500 Pass
Mid	2437	35724	37337	>500 Pass
High	2452	35890	37264	>500 Pass

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**Table 8: Test result of 6 dB and 99% Bandwidth, Antenna 2**

Ant 2 Mode:	802.11b	DSSS	BW(max): QPSK (HT17)	10593 kHz
Channel	Frequency MHz	6 dB BW (kHz)	99% BW (kHz)	Limit (kHz)
Low	2412	10159	13806	>500
Mid	2437	10593	13806	>500
High	2462	10333	13806	>500
Ant 2 Mode:	802.11g	OFDM	BW(max): BPSK (HT20)	16454 kHz
Channel	Frequency MHz	6 dB BW (kHz)	99% BW (kHz)	Limit (kHz)
Low	2412	16418	17018	>500
Mid	2437	16411	17018	>500
High	2462	16454	16975	>500
Ant 2 Mode:	802.11n	OFDM	BW(max): QPSK (HT20)	17713 kHz
Channel	Frequency MHz	6 dB BW (kHz)	99% BW (kHz)	Limit (kHz)
Low	2412	17713	18147	>500
Mid	2437	17627	18147	>500
High	2462	17627	18191	>500
Ant 2 Mode:	802.11n	OFDM	BW(max): QPSK (HT40)	36107 kHz
Channel	Frequency MHz	6 dB BW (kHz)	99% BW (kHz)	Limit (kHz)
Low	2422	35724	37264	>500
Mid	2437	35745	37264	>500
High	2452	36107	37264	>500

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## Result Diagrams

<b>ANT 1 MODE:</b>	<b>802.11B DSSS DBPSK (HT17).....</b>	<b>38</b>
<b>ANT 1 MODE:</b>	<b>802.11G OFDM BPSK (HT20) .....</b>	<b>40</b>
<b>ANT 1 MODE:</b>	<b>802.11N OFDM BPSK (HT20).....</b>	<b>42</b>
<b>ANT 1 MODE:</b>	<b>802.11N OFDM BPSK (HT40).....</b>	<b>44</b>
<b>ANT 2 MODE:</b>	<b>802.11B DSSS DBPSK (HT17).....</b>	<b>46</b>
<b>ANT 2 MODE:</b>	<b>802.11G OFDM BPSK (HT20) .....</b>	<b>48</b>
<b>ANT 2 MODE:</b>	<b>802.11N OFDM BPSK (HT20).....</b>	<b>50</b>
<b>ANT 2 MODE:</b>	<b>802.11N OFDM BPSK (HT40).....</b>	<b>52</b>

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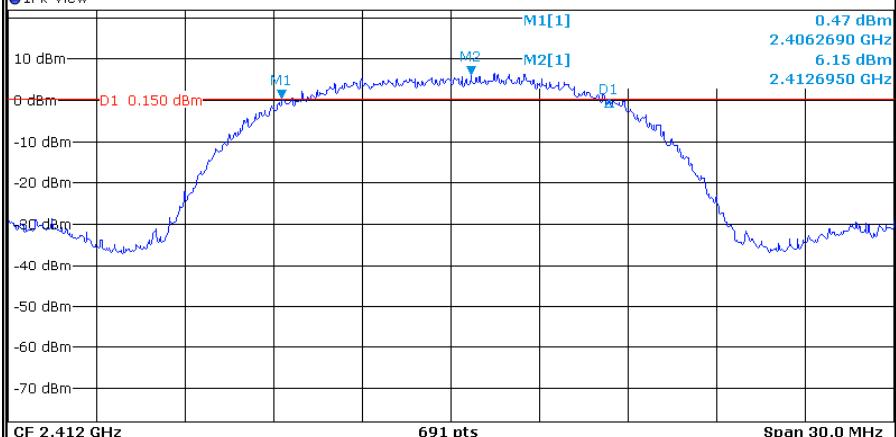
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**Ant 1 Mode: 802.11b DSSS QPSK (HT17)**

Channel	MHz	6dB(kHz)	99%(kHz)
Low	2412	11071	13892

**Spectrum**

 Ref Level 21.80 dBm Offset 21.80 dB RBW 100 kHz  
 Att 10 dB SWT 4.8 ms VBW 300 kHz Mode Sweep

 1Pk View

**Marker**

Type	Ref	Trc	Stimulus	Response	Function	Function Result
M1		1	2.406269 GHz	0.47 dBm		
D1	M1	1	11.071 MHz	-0.07 dB		
M2		1	2.412695 GHz	6.15 dBm		

Measuring...

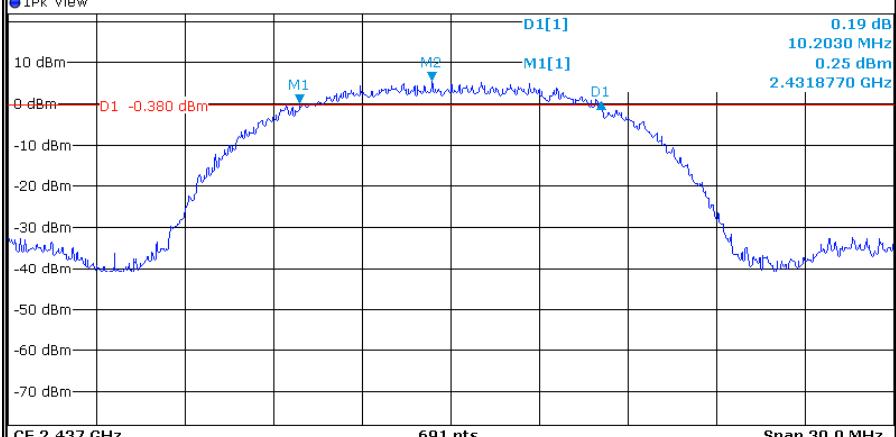
 10.01.2014  
 14:49:52

Date: 10.JAN.2014 14:49:53

Mid	2437	10203	13892

**Spectrum**

 Ref Level 21.80 dBm Offset 21.80 dB RBW 100 kHz  
 Att 10 dB SWT 4.8 ms VBW 300 kHz Mode Sweep

 1Pk View

**Marker**

Type	Ref	Trc	Stimulus	Response	Function	Function Result
M1		1	2.431877 GHz	0.25 dBm		
D1	M1	1	10.203 MHz	0.19 dB		
M2		1	2.436349 GHz	5.62 dBm		

Measuring...

 10.01.2014  
 14:49:02

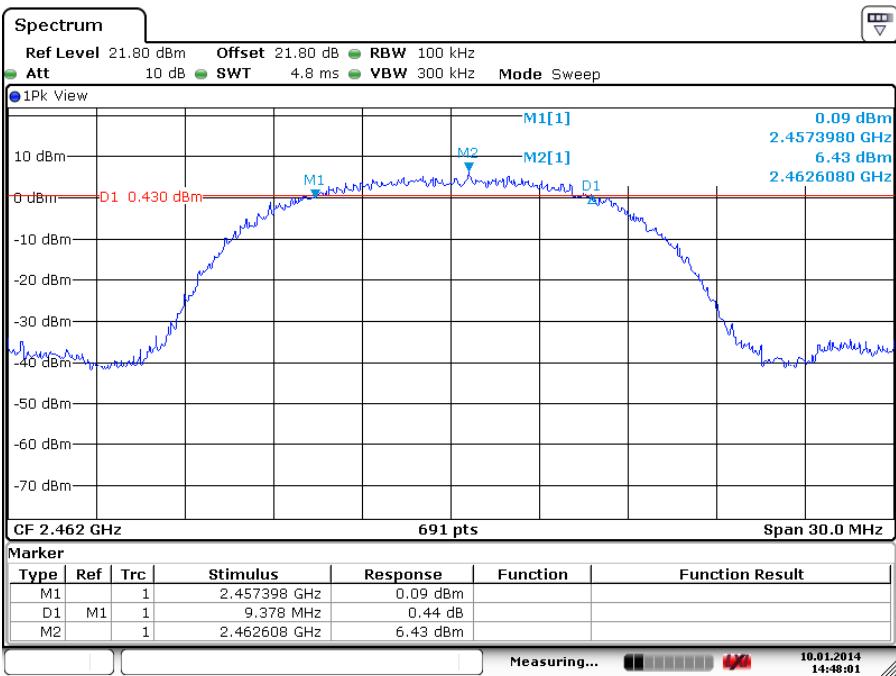
Date: 10.JAN.2014 14:49:02

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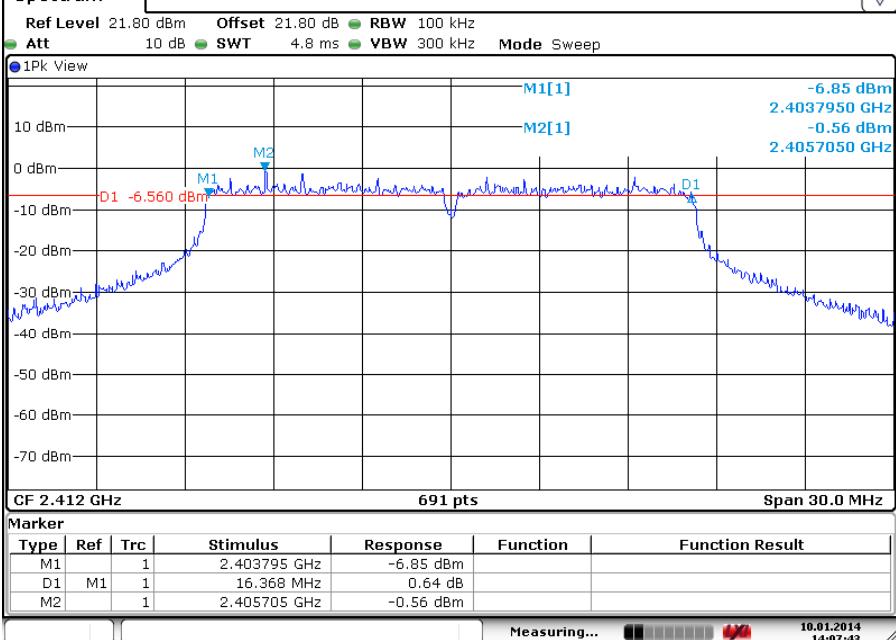
Ant 1 Mode:	802.11b	DSSS	QPSK	(HT17)
Channel	MHz	6dB(kHz)	99%(kHz)	
High	2462	9378	13806	



Date: 10.JAN.2014 14:48:02

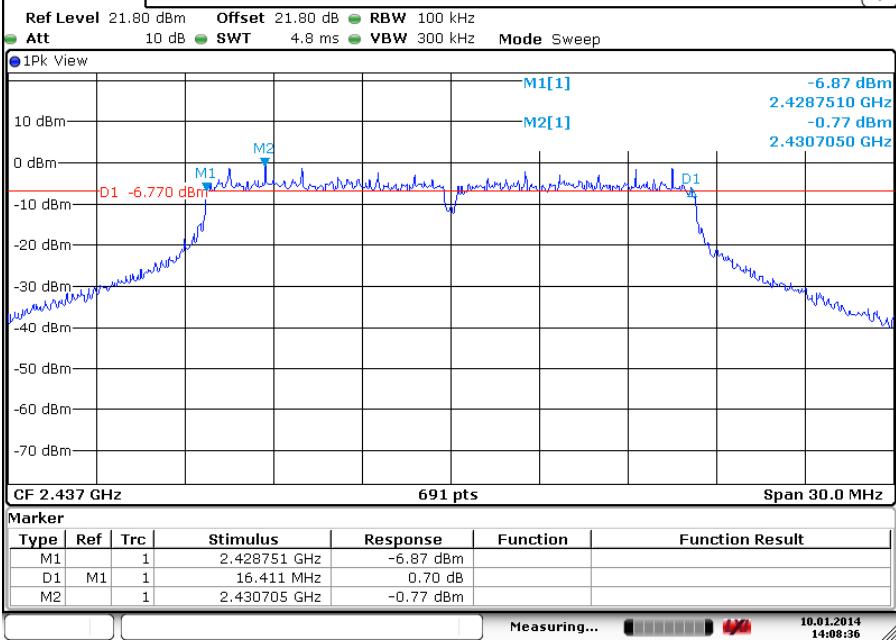
**Prüfbericht - Nr.: 10045580 001**  
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**Ant 1 Mode: 802.11g OFDM BPSK (HT20)**

Channel	MHz	6dB(kHz)	99%(kHz)
Low	2412	16368	17149

**Spectrum**


Date: 10.JAN.2014 14:07:43

Mid	2437	16411	17149

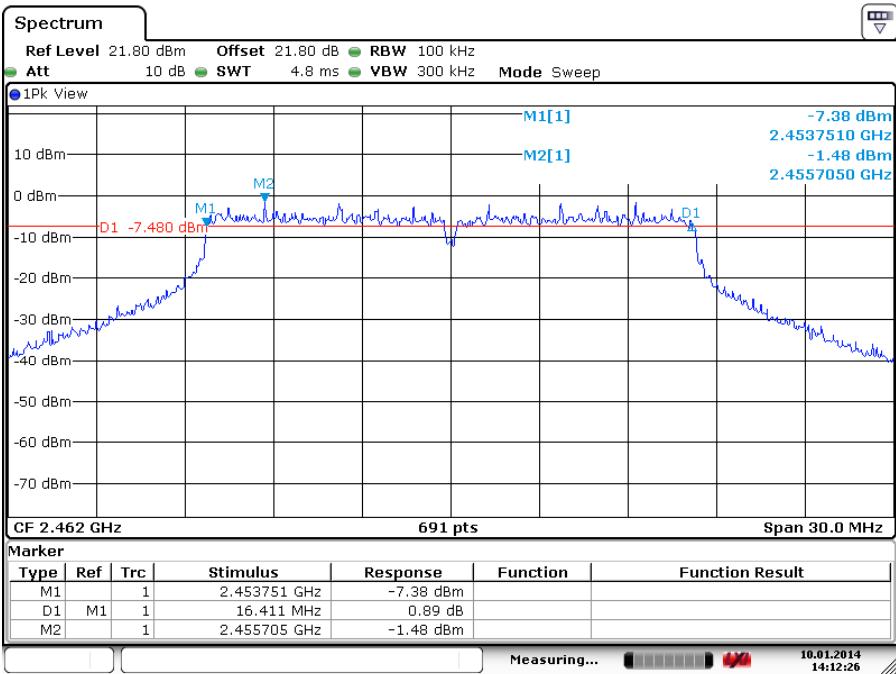
**Spectrum**


Date: 10.JAN.2014 14:08:36

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Ant 1 Mode:	802.11g	OFDM	BPSK	(HT20)
Channel	MHz	6dB(kHz)	99%(kHz)	
High	2462	16411	17192	



Date: 10.JAN.2014 14:12:27

**Produkte**  
*Products*
**Prüfbericht - Nr.: 10045580 001**  
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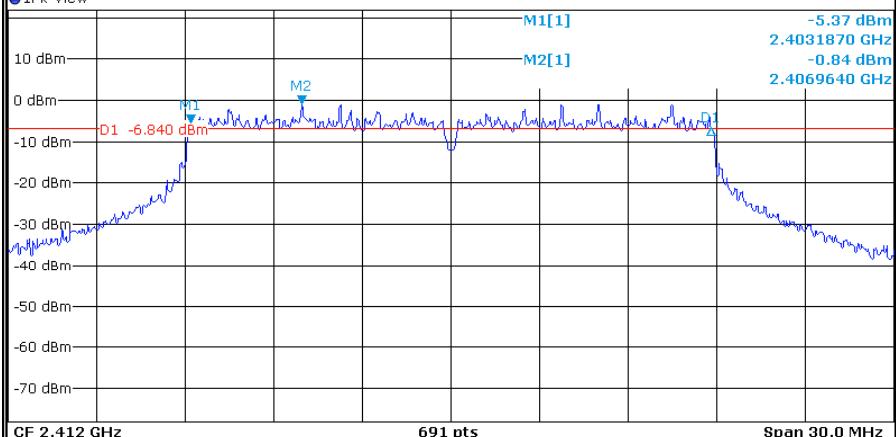
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**Ant 1 Mode: 802.11n OFDM QPSK (HT20)**

Channel	MHz	6dB(kHz)	99%(kHz)
Low	2412	17627	18147

**Spectrum**

 Ref Level 21.80 dBm Offset 21.80 dB RBW 100 kHz  
 Att 10 dB SWT 4.8 ms VBW 300 kHz Mode Sweep

 1Pk View

**Marker**

Type	Ref	Trc	Stimulus	Response	Function	Function Result
M1		1	2.403187 GHz	-5.37 dBm		
D1	M1	1	17.627 MHz	-1.05 dB		
M2		1	2.406964 GHz	-0.84 dBm		

Measuring...

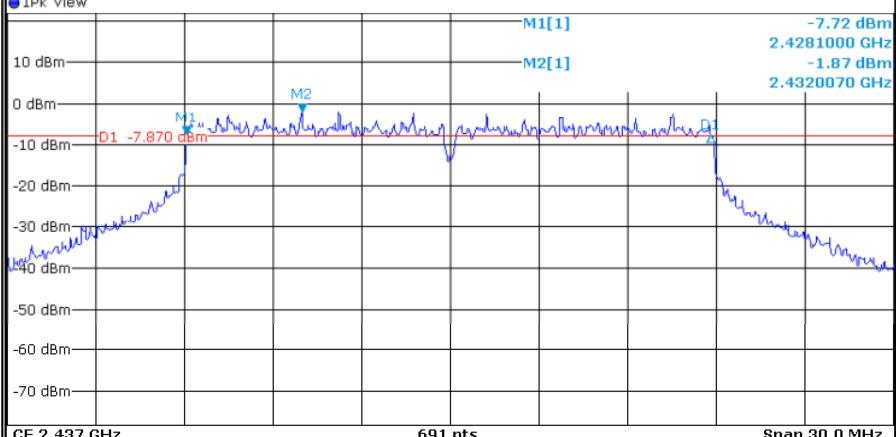
 10.01.2014  
 14:50:58

Date: 10.JAN.2014 14:50:58

Mid	2437	17713	18147

**Spectrum**

 Ref Level 21.80 dBm Offset 21.80 dB RBW 100 kHz  
 Att 10 dB SWT 4.8 ms VBW 300 kHz Mode Sweep

 1Pk View

**Marker**

Type	Ref	Trc	Stimulus	Response	Function	Function Result
M1		1	2.4281 GHz	-7.72 dBm		
D1	M1	1	17.713 MHz	0.14 dB		
M2		1	2.432007 GHz	-1.87 dBm		

Measuring...

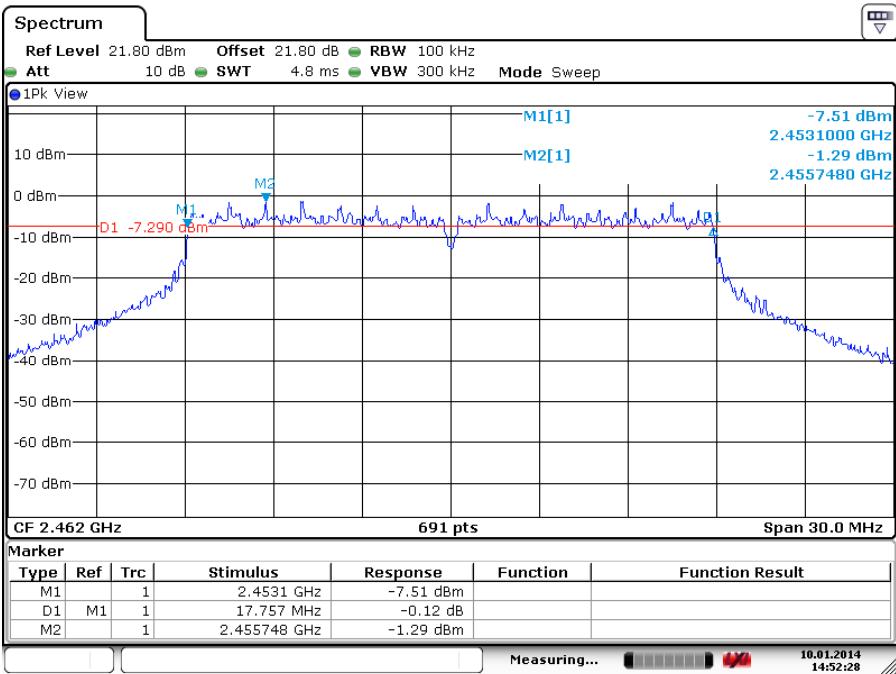
 10.01.2014  
 14:51:44

Date: 10.JAN.2014 14:51:44

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Ant 1 Mode:	802.11n	OFDM	QPSK	(HT20)
Channel	MHz	6dB(kHz)	99%(kHz)	
High	2462	17757	18191	



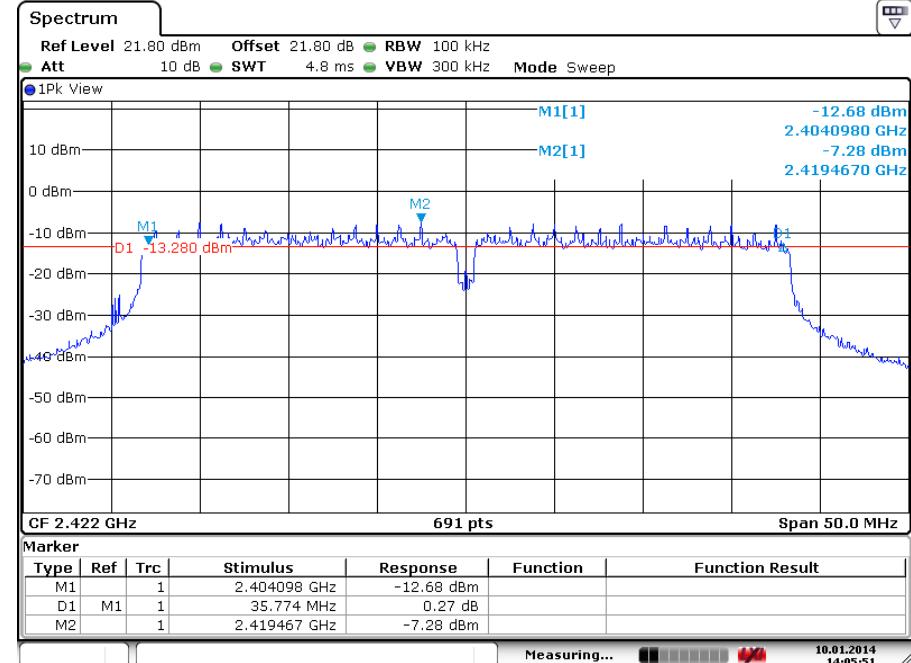
Date: 10.JAN.2014 14:52:28

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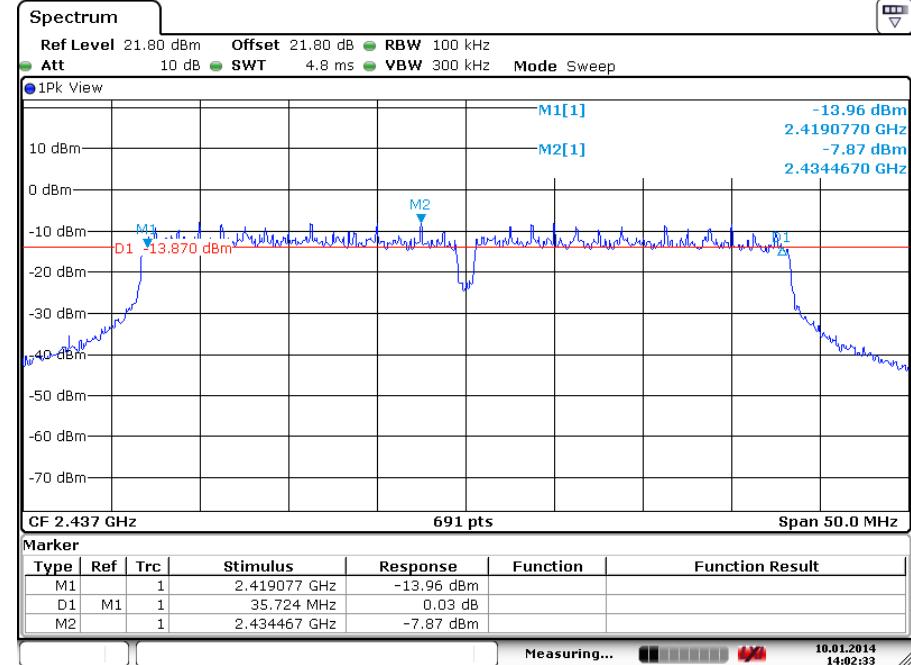
**Ant 1 Mode: 802.11n OFDM QPSK (HT40)**

Channel	MHz	6dB(kHz)	99%(kHz)
Low	2422	35774	37626



Date: 10.JAN.2014 14:05:51

Mid	2437	35724	37337

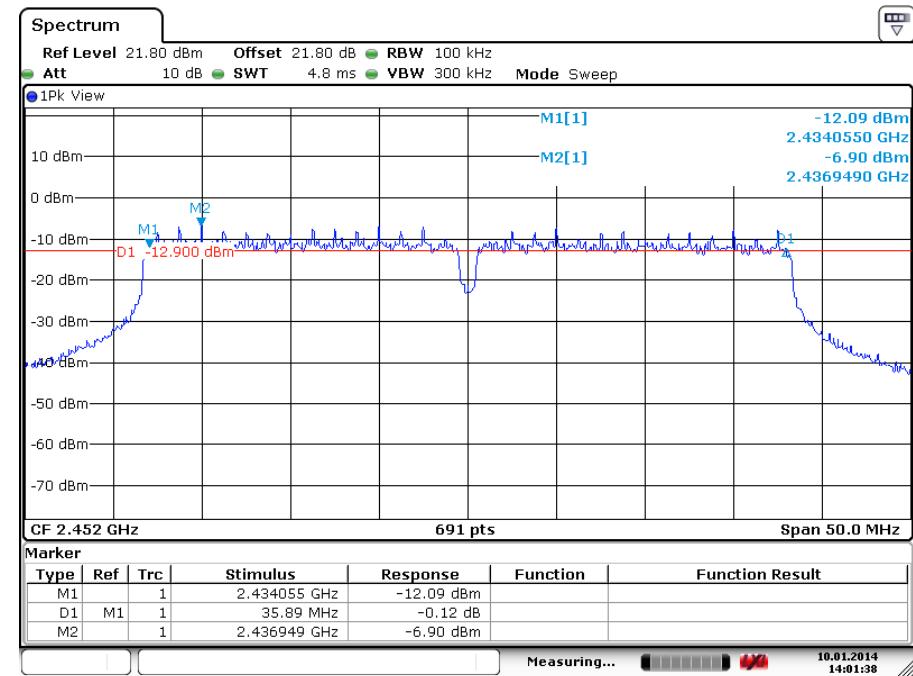


Date: 10.JAN.2014 14:02:33

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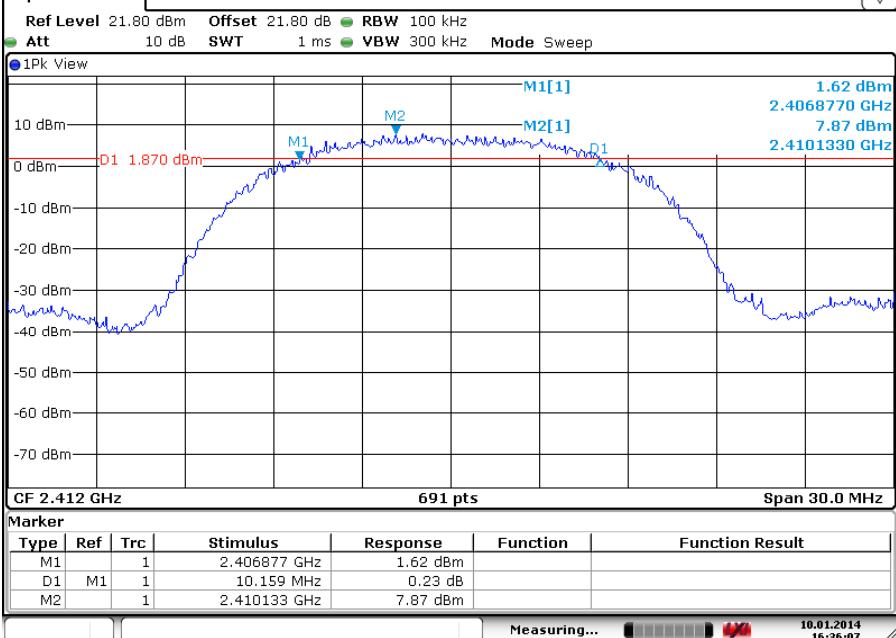
Ant 1 Mode:	802.11n	OFDM	QPSK	(HT40)
Channel	MHz	6dB(kHz)	99%(kHz)	
High	2452	35890	37264	



Date: 10.JAN.2014 14:01:37

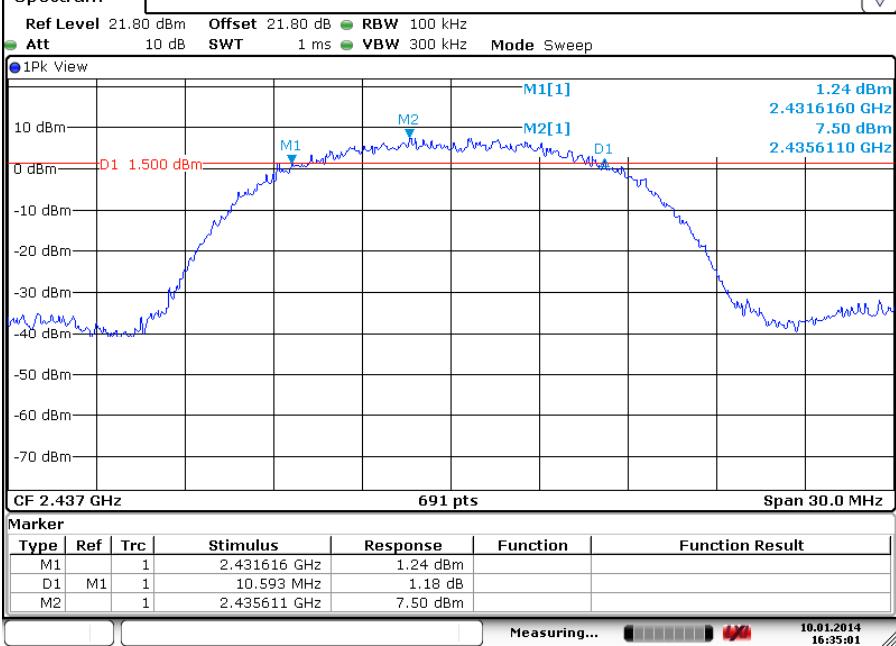
**Prüfbericht - Nr.: 10045580 001**  
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**Ant 2 Mode: 802.11b DSSS QPSK (HT17)**

Channel	MHz	6dB(kHz)	99%(kHz)
Low	2412	10159	13806

**Spectrum**


Date: 10.JAN.2014 16:36:07

Mid	2437	10593	13806

**Spectrum**


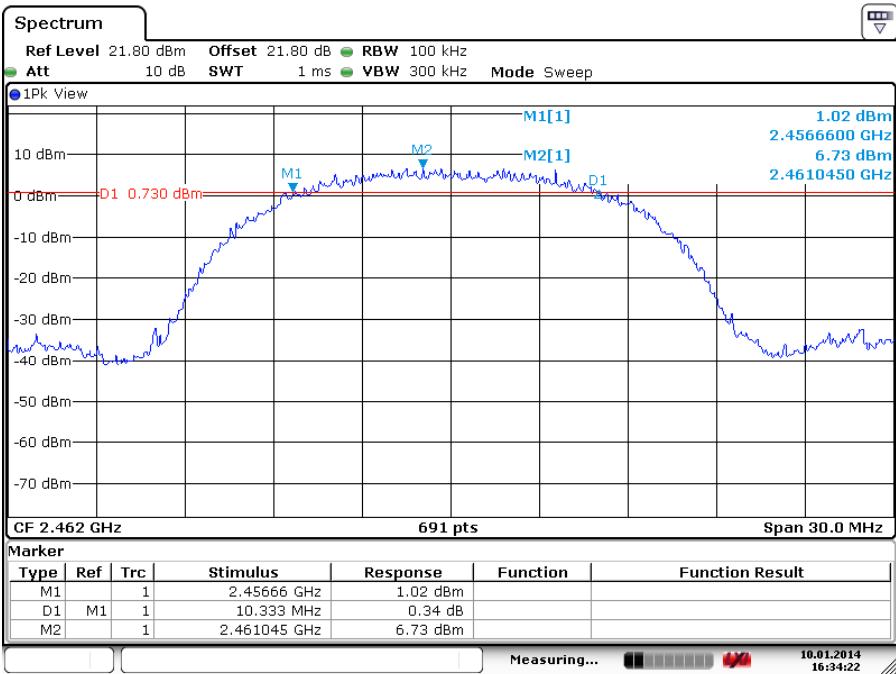
Date: 10.JAN.2014 16:35:01

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Ant 2 Mode:	802.11b	DSSS	DBPSK	(HT17)
Channel	MHz	6dB(kHz)	99%(kHz)	
High	2462	10333	13806	



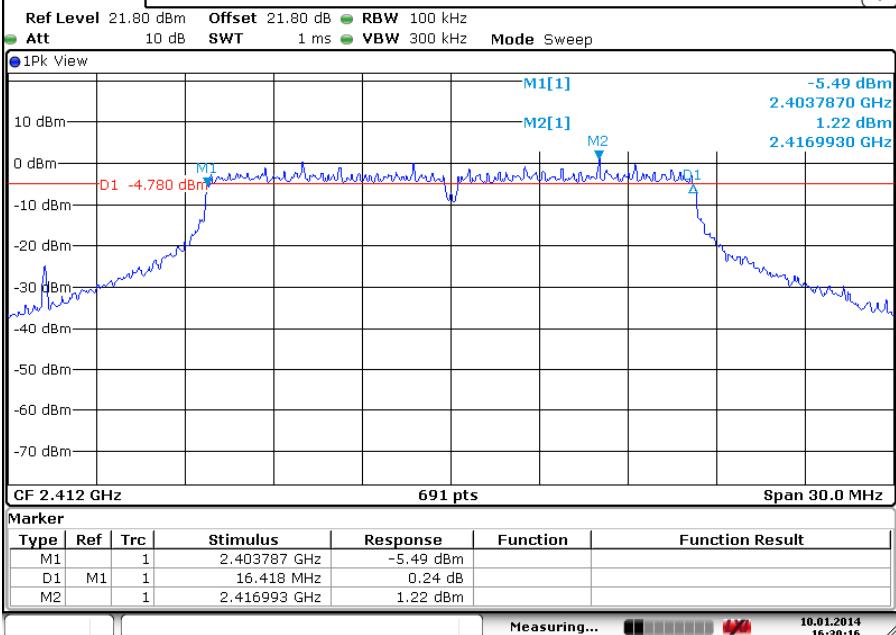
Date: 10.JAN.2014 16:34:22

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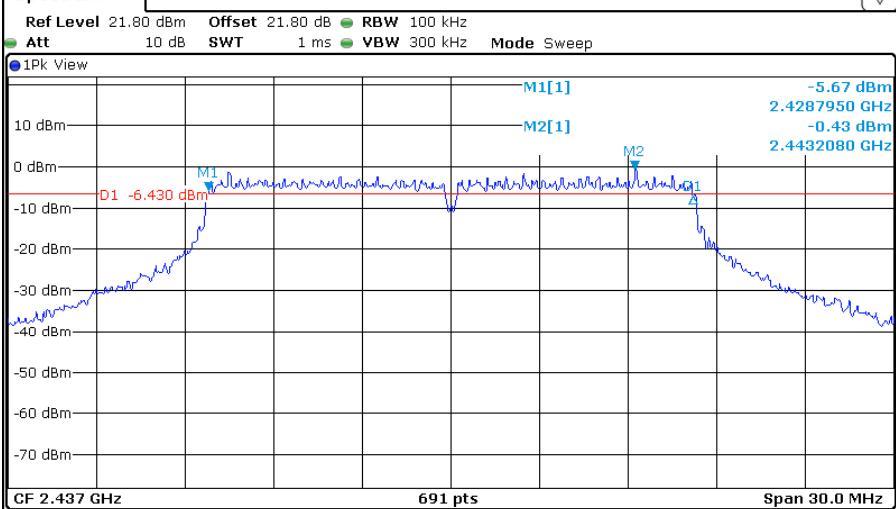
**Ant 2 Mode: 802.11g OFDM BPSK (HT20)**

Channel	MHz	6dB(kHz)	99%(kHz)
Low	2412	16418	17018

**Spectrum**


Date: 10.JAN.2014 16:30:16

Mid	2437	16411	17018

**Spectrum**

**Marker**

Type	Ref	Trc	Stimulus	Response	Function	Function Result
M1		1	2.428795 GHz	-5.67 dBm		
D1	M1	1	16.411 MHz	-1.29 dB		
M2		1	2.443208 GHz	-0.43 dBm		

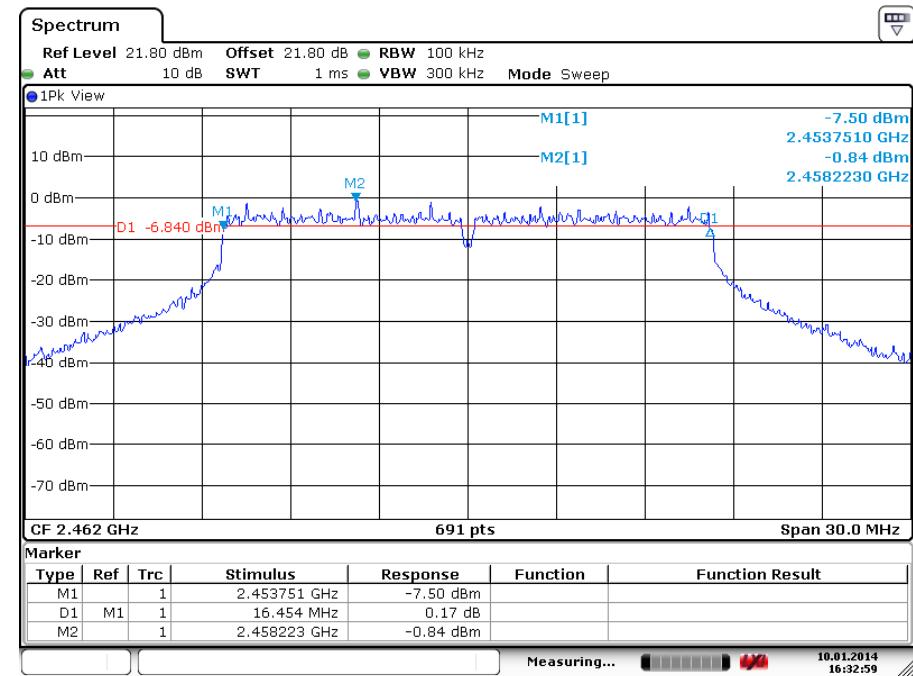
Measuring... 10.01.2014 16:31:10

Date: 10.JAN.2014 16:31:11

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Ant 2 Mode:	802.11g	OFDM	BPSK	(HT20)
Channel	MHz	6dB(kHz)	99%(kHz)	
High	2462	16454	16975	



Date: 10.JAN.2014 16:33:00

**Prüfbericht - Nr.: 10045580 001**  
*Test Report No.*

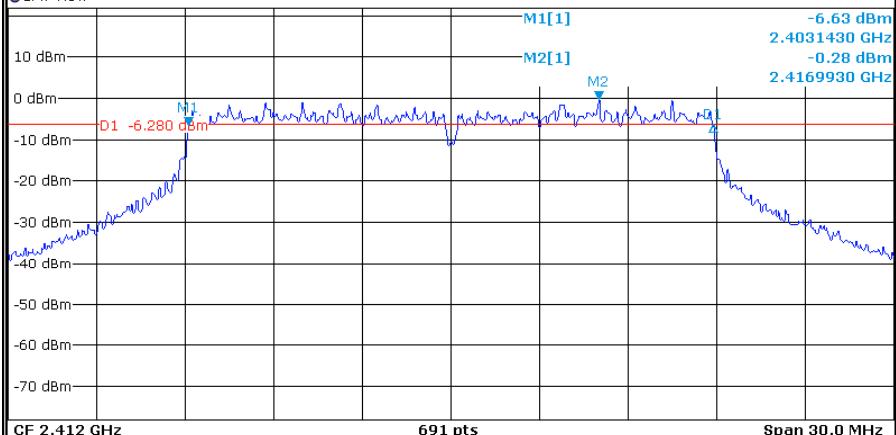
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**Ant 2 Mode: 802.11n OFDM QPSK (HT20)**

Channel	MHz	6dB(kHz)	99%(kHz)
Low	2412	17713	18147

**Spectrum**

 Ref Level 21.80 dBm Offset 21.80 dB RBW 100 kHz  
 Att 10 dB SWT 1 ms VBW 300 kHz Mode Sweep

 1Pk View

**Marker**

Type	Ref	Trc	Stimulus	Response	Function	Function Result
M1		1	2.403143 GHz	-6.63 dBm		
D1	M1	1	17.713 MHz	0.27 dB		
M2		1	2.416993 GHz	-0.28 dBm		

Measuring...

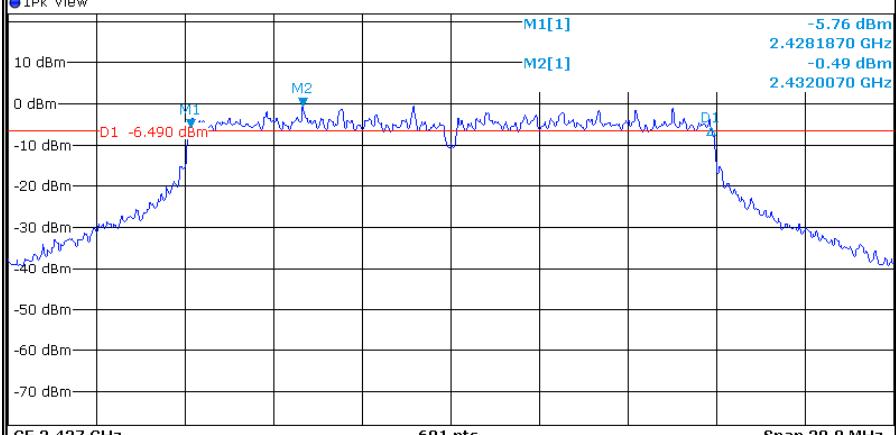
 10.01.2014  
 16:49:03

Date: 10.JAN.2014 16:49:03

Mid	2437	17627	18147

**Spectrum**

 Ref Level 21.80 dBm Offset 21.80 dB RBW 100 kHz  
 Att 10 dB SWT 1 ms VBW 300 kHz Mode Sweep

 1Pk View

**Marker**

Type	Ref	Trc	Stimulus	Response	Function	Function Result
M1		1	2.428187 GHz	-5.76 dBm		
D1	M1	1	17.627 MHz	0.15 dB		
M2		1	2.432007 GHz	-0.49 dBm		

Measuring...

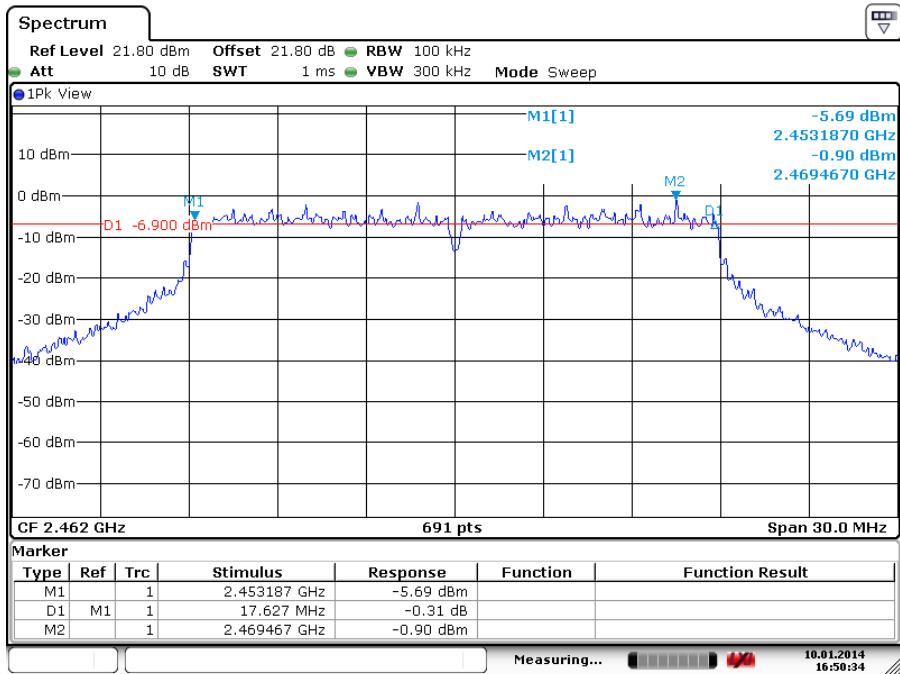
 10.01.2014  
 16:49:43

Date: 10.JAN.2014 16:49:43

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Ant 2 Mode:	802.11n	OFDM	QPSK	(HT20)
Channel	MHz	6dB(kHz)	99%(kHz)	
High	2462	17627	18191	



Date: 10.JAN.2014 16:50:35

**Prüfbericht - Nr.: 10045580 001**
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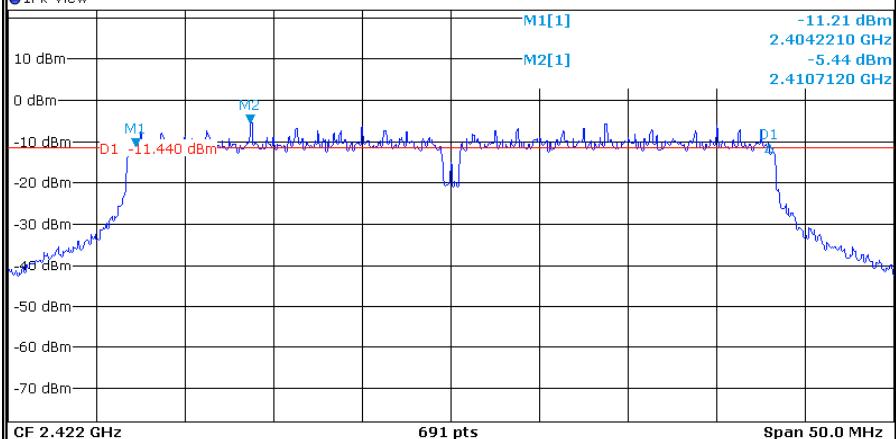
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**Ant 2 Mode: 802.11n OFDM QPSK (HT40)**

Channel	MHz	6dB(kHz)	99%(kHz)
Low	2422	35724	37264

**Spectrum**

 Ref Level 21.80 dBm Offset 21.80 dB RBW 100 kHz  
 Att 10 dB SWT 1.1 ms VBW 300 kHz Mode Sweep

 1Pk View

**Marker**

Type	Ref	Trc	Stimulus	Response	Function	Function Result
M1		1	2.404221 GHz	-11.21 dBm		
D1	M1	1	35.724 MHz	0.54 dB		
M2		1	2.410712 GHz	-5.44 dBm		

Measuring...

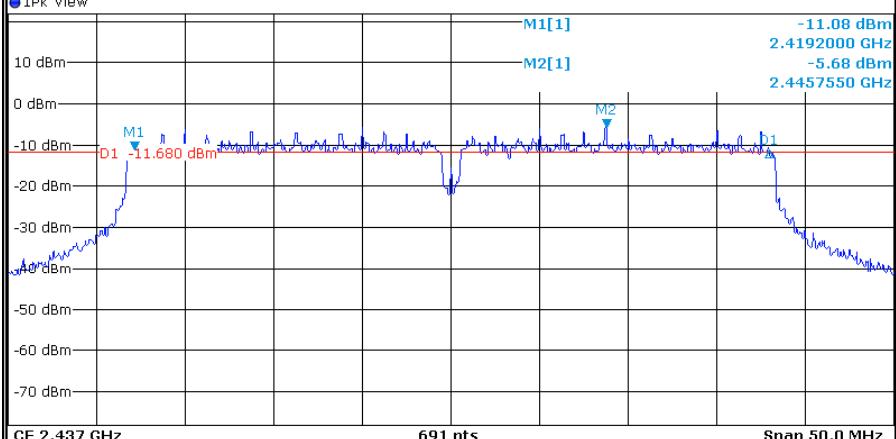
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 16:29:16

Date: 10.JAN.2014 16:29:17

Mid	2437	35745	37264

**Spectrum**

 Ref Level 21.80 dBm Offset 21.80 dB RBW 100 kHz  
 Att 10 dB SWT 1.1 ms VBW 300 kHz Mode Sweep

 1Pk View

**Marker**

Type	Ref	Trc	Stimulus	Response	Function	Function Result
M1		1	2.4192 GHz	-11.08 dBm		
D1	M1	1	35.745 MHz	-0.00 dB		
M2		1	2.445755 GHz	-5.68 dBm		

Measuring...

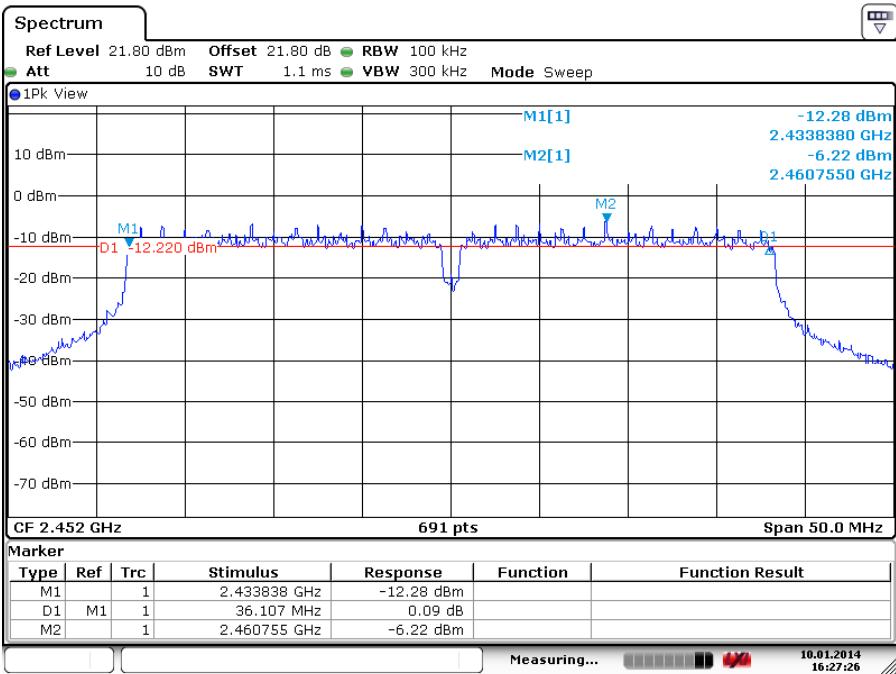
 10.01.2014  
 16:28:23

Date: 10.JAN.2014 16:28:23

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Ant 2 Mode:	802.11n	OFDM	QPSK	(HT40)
Channel	MHz	6dB(kHz)	99%(kHz)	
High	2452	36107	37264	



Date: 10.JAN.2014 16:27:26

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### 5.1.4 Power Density

#### RESULT:

Passed

Test standard : FCC Part 15.247(e) , RSS-210 A8.2(2)  
Basic standard : ANSI C63.10:2009, KDB558074  
Kind of test site : Shielded room

#### Test setup

Test Channel : Low/ Middle/ High  
Operation Mode : A  
Ambient temperature : 18-22 °C  
Relative humidity : 50-65 %  
Atmospheric pressure : 100-103 kPa

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**Table 9: Test result of Power Density Antenna 1**

Ant 1 Mode: 802.11b DSSS QPSK (HT17)

Channel	Frequency MHz	Peak Power Density dBm/3 kHz	Limit (dBm/3kHz)	Result
Low	2412	-5.41	5	Pass
Mid	2437	-2.95	5	Pass
High	2462	-7.23	5	Pass

Ant 1 Mode: 802.11g OFDM BPSK (HT20)

Channel	Frequency MHz	Peak Power Density dBm/3 kHz	Limit (dBm/3kHz)	Result
Low	2412	-14.96	5	Pass
Mid	2437	-14.38	5	Pass
High	2462	-15.24	5	Pass

Ant 1 Mode: 802.11n OFDM QPSK (HT20)

Channel	Frequency MHz	Peak Power Density dBm/3 kHz	Limit (dBm/3kHz)	Result
Low	2412	-15.86	5	Pass
Mid	2437	-14.23	5	Pass
High	2462	-15.91	5	Pass

Ant 1 Mode: 802.11n OFDM QPSK (HT40)

Channel	Frequency MHz	Peak Power Density dBm/3 kHz	Limit (dBm/3kHz)	Result
Low	2422	-20	5	Pass
Mid	2437	-19.89	5	Pass
High	2452	-19.62	5	Pass

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**Table 10: Test result of Power Density Antenna 2**

Ant 2 Mode: 802.11b DSSS QPSK (HT17)

Channel	Frequency MHz	Peak Power Density dBm/3 kHz	Limit (dBm/3kHz)	Result
Low	2412	-0.85	5	Pass
Mid	2437	-2.67	5	Pass
High	2462	-4.63	5	Pass

Ant 2 Mode: 802.11g OFDM BPSK (HT20)

Channel	Frequency MHz	Peak Power Density dBm/3 kHz	Limit (dBm/3kHz)	Result
Low	2412	-11.77	5	Pass
Mid	2437	-14.43	5	Pass
High	2462	-14.53	5	Pass

Ant 2 Mode: 802.11n OFDM QPSK (HT20)

Channel	Frequency MHz	Peak Power Density dBm/3 kHz	Limit (dBm/3kHz)	Result
Low	2412	-14.49	5	Pass
Mid	2437	-14.13	5	Pass
High	2462	-15.3	5	Pass

Ant 2 Mode: 802.11n OFDM QPSK (HT40)

Channel	Frequency MHz	Peak Power Density dBm/3 kHz	Limit (dBm/3kHz)	Result
Low	2422	-18.65	5	Pass
Mid	2437	-17.42	5	Pass
High	2452	-17.55	5	Pass

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## Result Diagrams

<b>ANT 1 MODE:</b>	<b>802.11B DSSS DBPSK (HT17).....</b>	<b>58</b>
<b>ANT 1 MODE:</b>	<b>802.11G OFDM BPSK (HT20) .....</b>	<b>60</b>
<b>ANT 1 MODE:</b>	<b>802.11N OFDM BPSK (HT20).....</b>	<b>62</b>
<b>ANT 1 MODE:</b>	<b>802.11N OFDM BPSK (HT40).....</b>	<b>64</b>
<b>ANT 2 MODE:</b>	<b>802.11B DSSS DBPSK (HT17).....</b>	<b>66</b>
<b>ANT 2 MODE:</b>	<b>802.11G OFDM BPSK (HT20) .....</b>	<b>68</b>
<b>ANT 2 MODE:</b>	<b>802.11N OFDM BPSK (HT20).....</b>	<b>70</b>
<b>ANT 2 MODE:</b>	<b>802.11N OFDM BPSK (HT40).....</b>	<b>72</b>

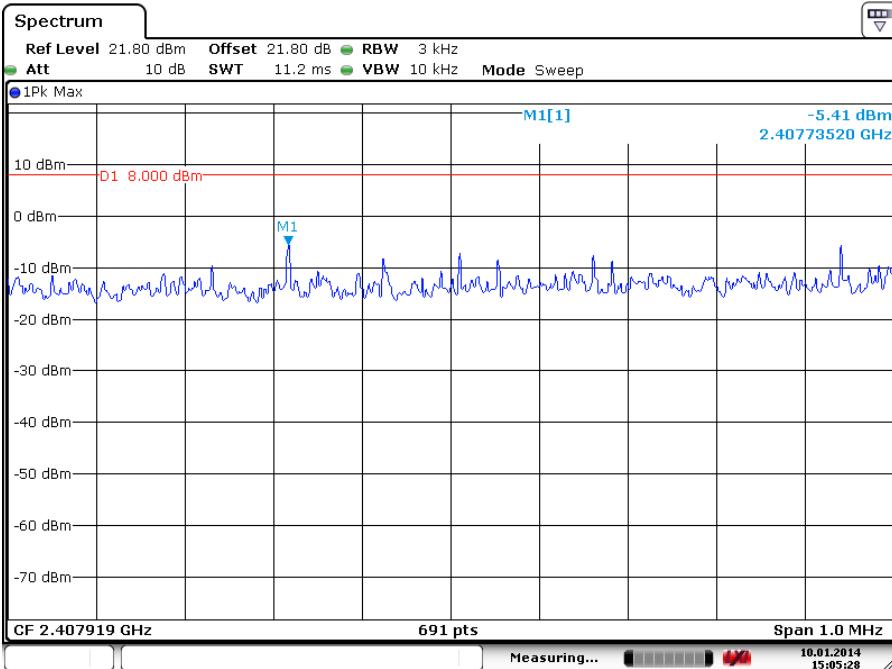
**Produkte**  
Products

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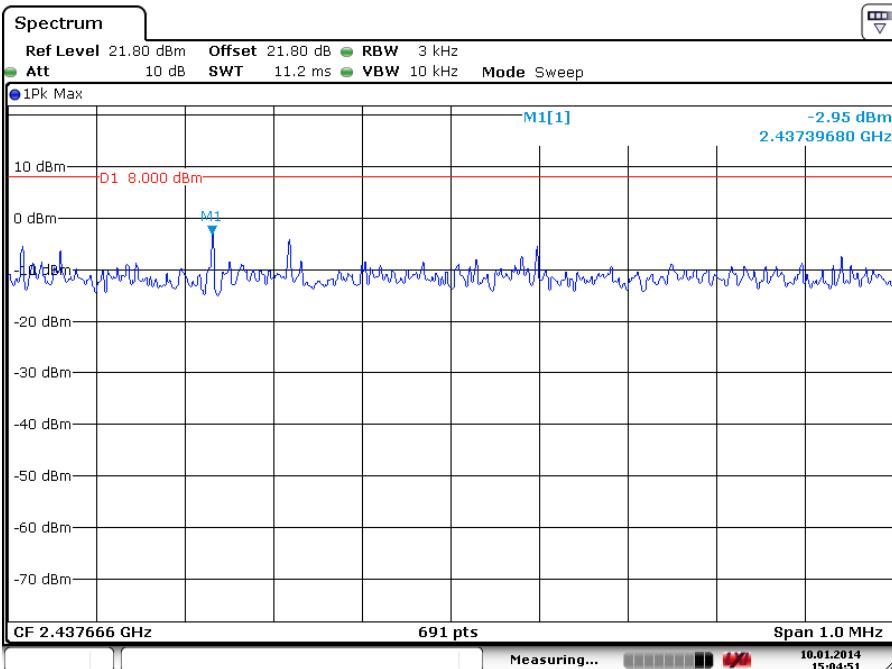
**Ant 1 Mode: 802.11b DSSS QPSK (HT17)**

Channel	MHz	PPD dBm/3 kHz
Low	2412	-5.41



Date: 10.JAN.2014 15:05:27

Mid	2437	-2.95
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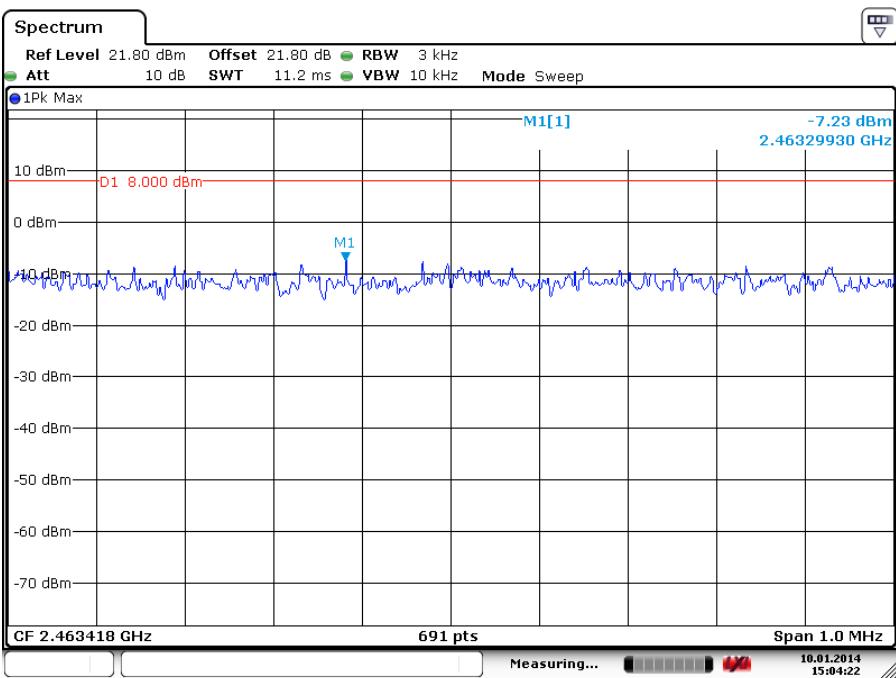
Date: 10.JAN.2014 15:04:51

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Ant 1 Mode:	802.11b	DSSS	QPSK	(HT17)
Channel	MHz	PPD dBm/3 kHz		
Low	2462	-7.23		



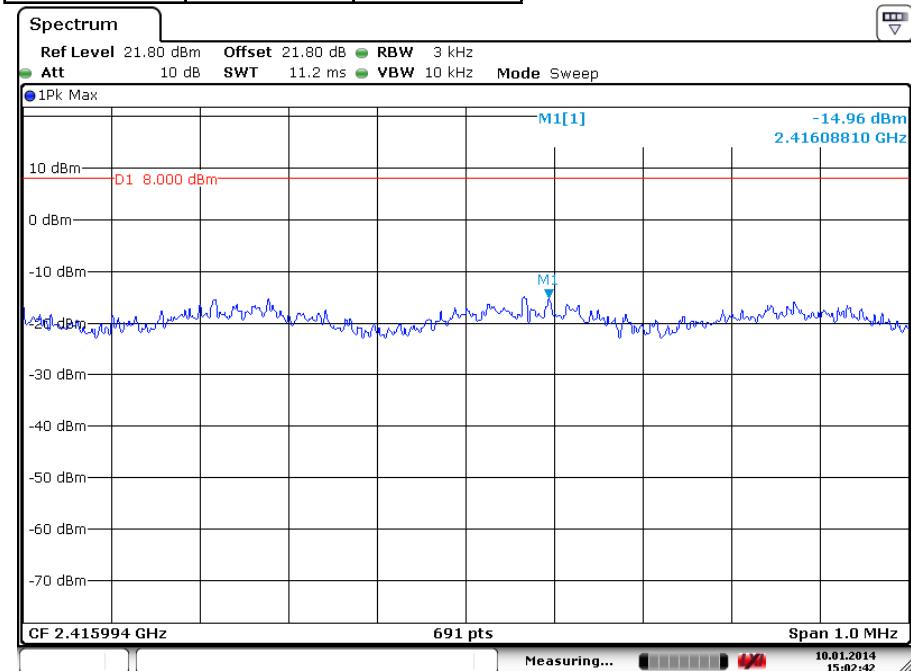
Date: 10.JAN.2014 15:04:23

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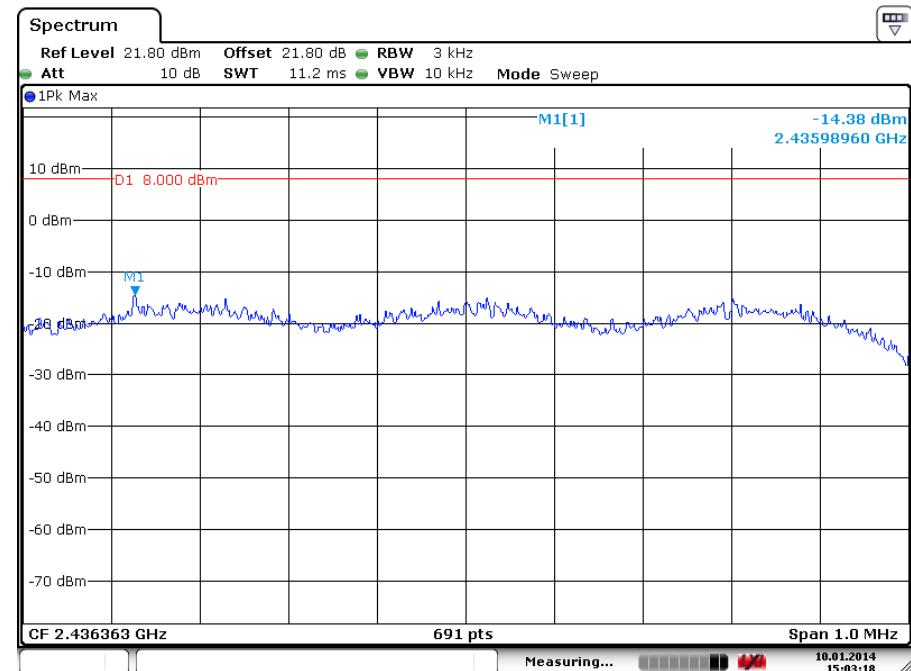
**Ant 1 Mode: 802.11g OFDM BPSK (HT20)**

Channel	MHz	PPD dBm/3 kHz
Low	2412	-14.96



Date: 10.JAN.2014 15:02:41

Mid	2437	-14.38

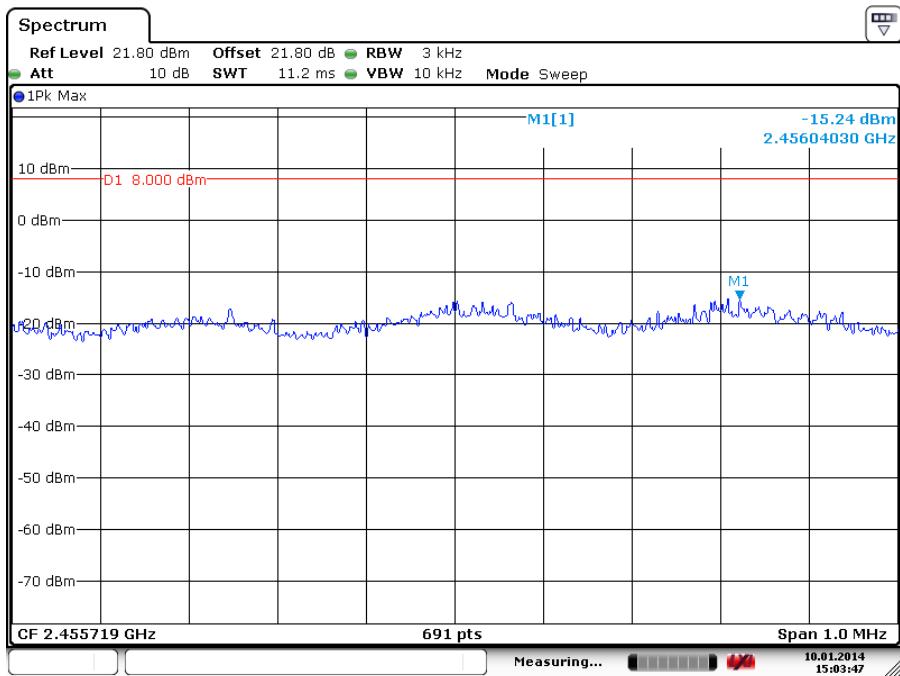


Date: 10.JAN.2014 15:03:17

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Ant 1 Mode:	802.11g	OFDM	BPSK	(HT20)
Channel	MHz	PPD dBm/3 kHz		
Low	2462	-15.24		



Date: 10.JAN.2014 15:03:47

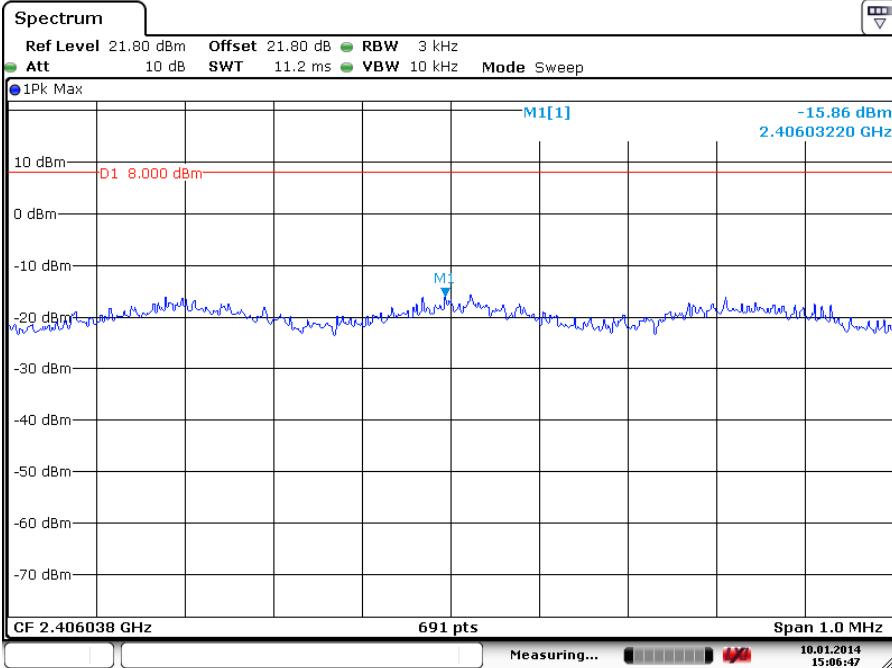
**Produkte**  
Products

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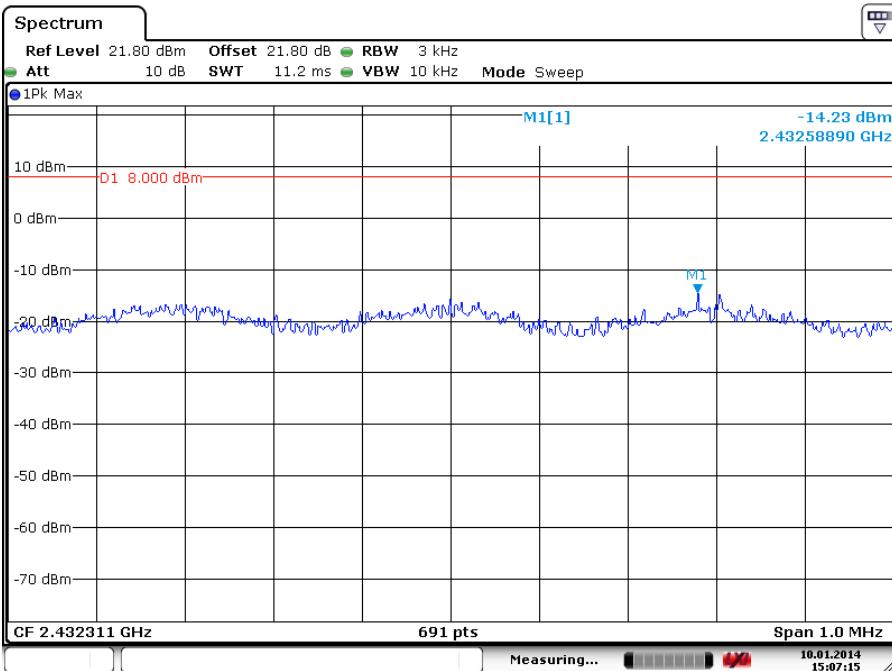
**Ant 1 Mode: 802.11n OFDM QPSK (HT20)**

Channel	MHz	PPD dBm/3 kHz
Low	2412	-15.86



Date: 10.JAN.2014 15:06:47

Mid	2437	-14.23

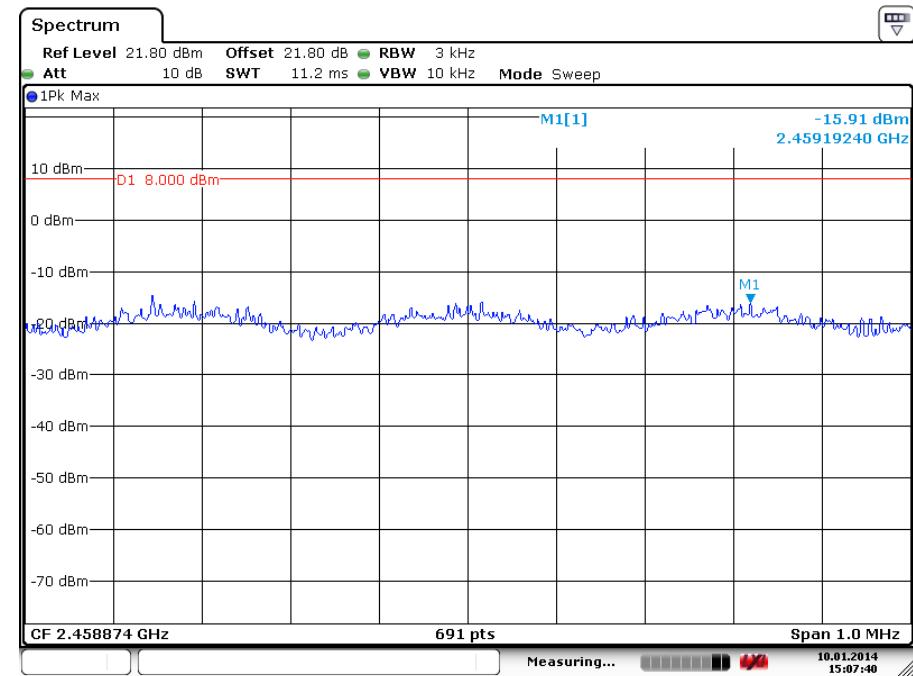


Date: 10.JAN.2014 15:07:15

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Ant 1 Mode:	802.11n	OFDM	QPSK	(HT20)
Channel	MHz	PPD dBm/3 kHz		
Low	2462	-15.91		



Date: 10.JAN.2014 15:07:40

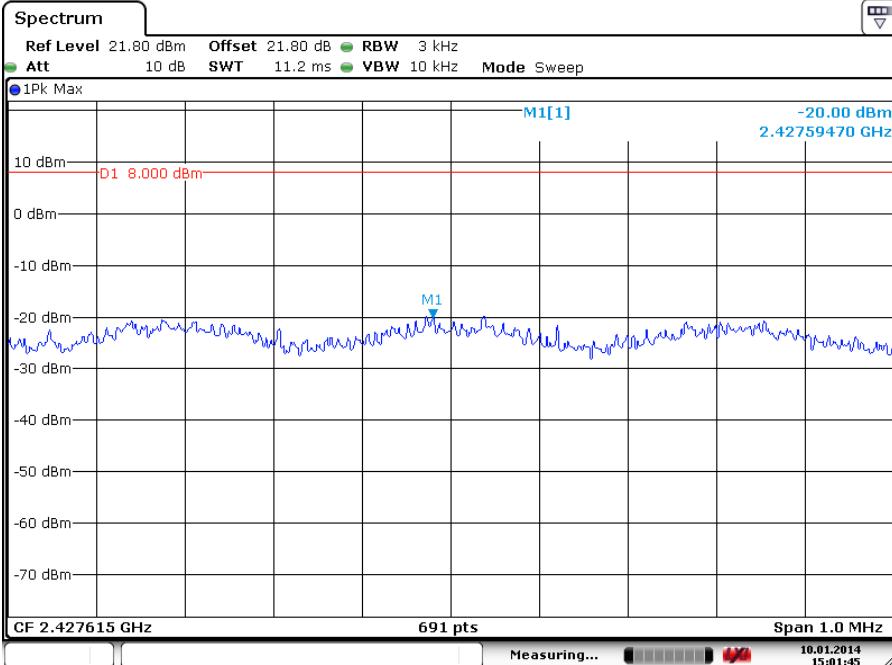
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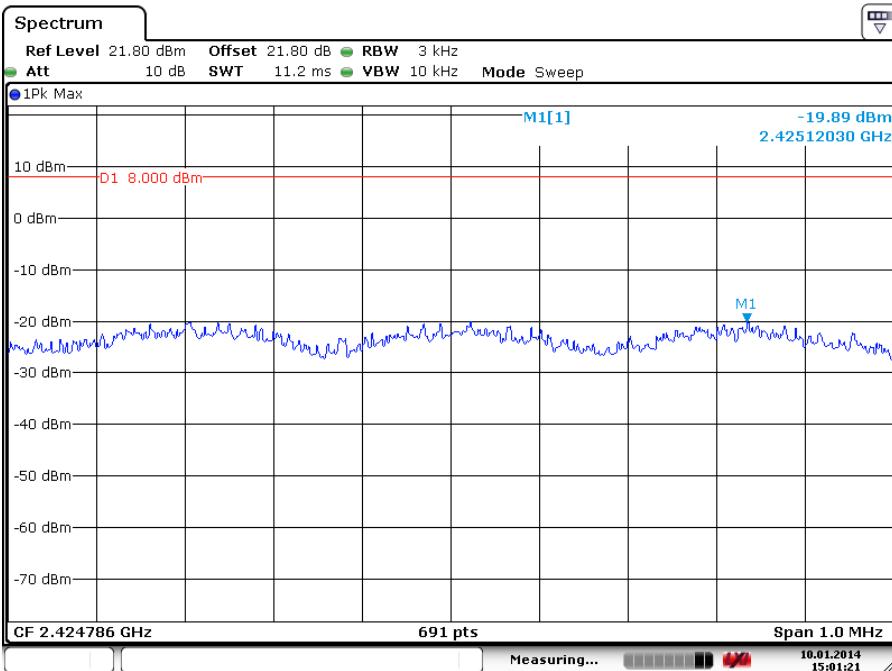
**Ant 1 Mode: 802.11n OFDM QPSK (HT40)**

Channel	MHz	PPD dBm/3 kHz
Low	2422	-20



Date: 10.JAN.2014 15:01:45

Mid	2437	-19.89

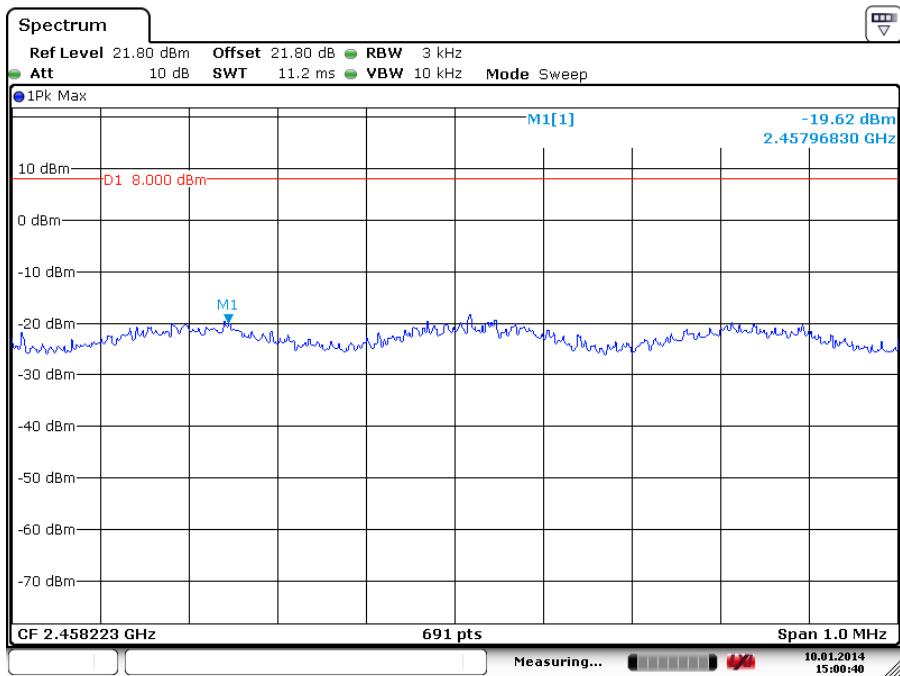


Date: 10.JAN.2014 15:01:21

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Ant 1 Mode:	802.11n	OFDM	QPSK	(HT40)
Channel	MHz	PPD dBm/3 kHz		
Low	2452	-19.62		



Date: 10.JAN.2014 15:00:40

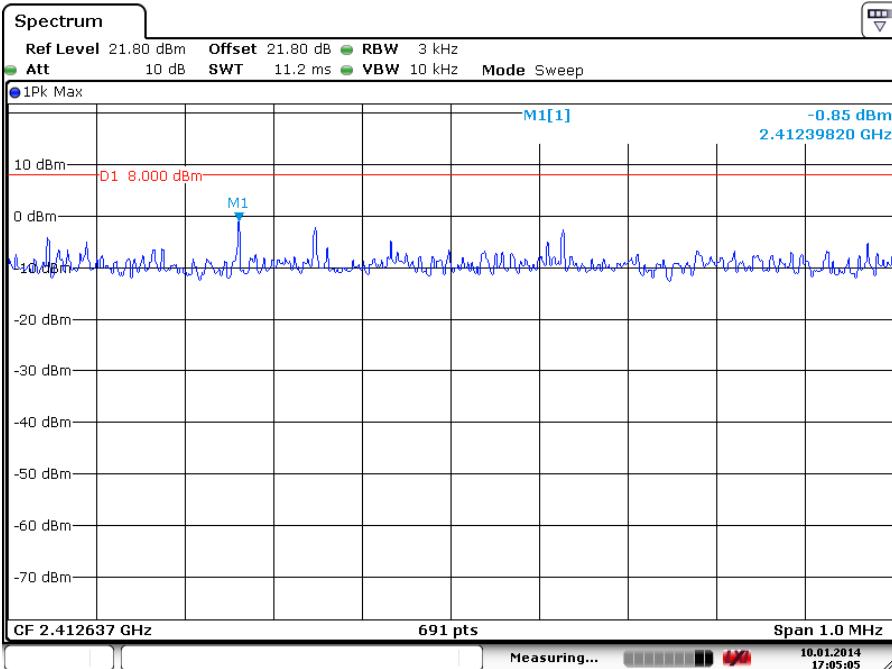
**Produkte**  
Products

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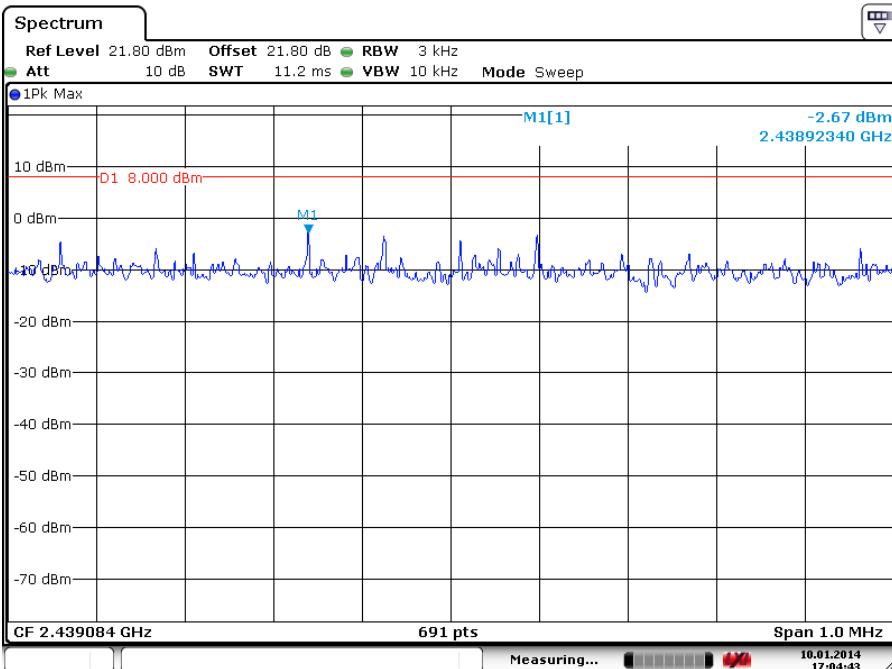
**Ant 2 Mode: 802.11b DSSS QPSK (HT17)**

Channel	MHz	PPD dBm/3 kHz
Low	2412	-0.85



Date: 10.JAN.2014 17:05:06

Mid	2437	-2.67
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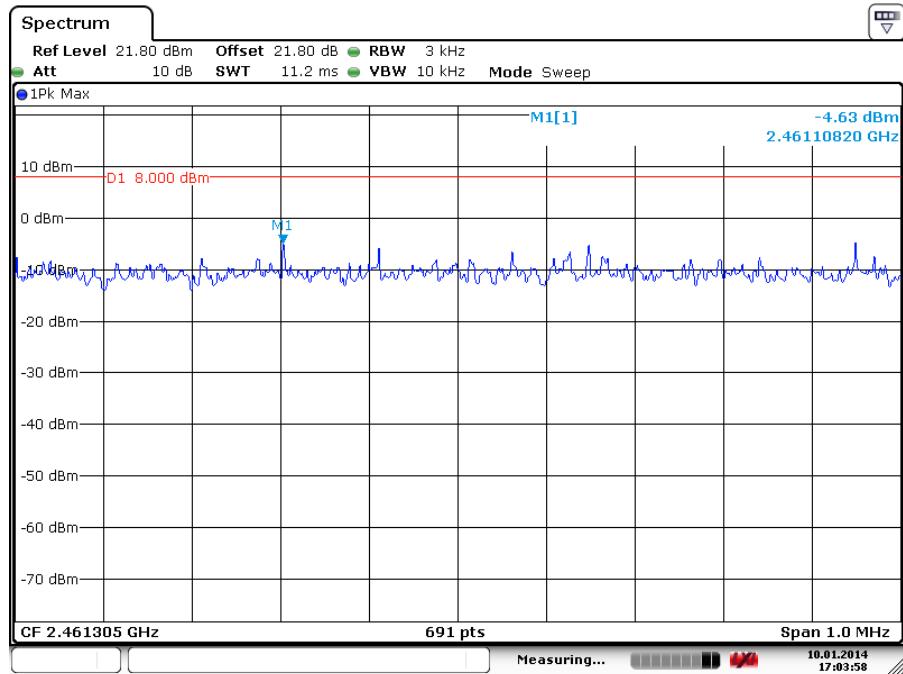


Date: 10.JAN.2014 17:04:43

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Ant 2 Mode:	802.11b	DSSS	QPSK	(HT17)
Channel	MHz	PPD dBm/3 kHz		
Low	2462	-4.63		



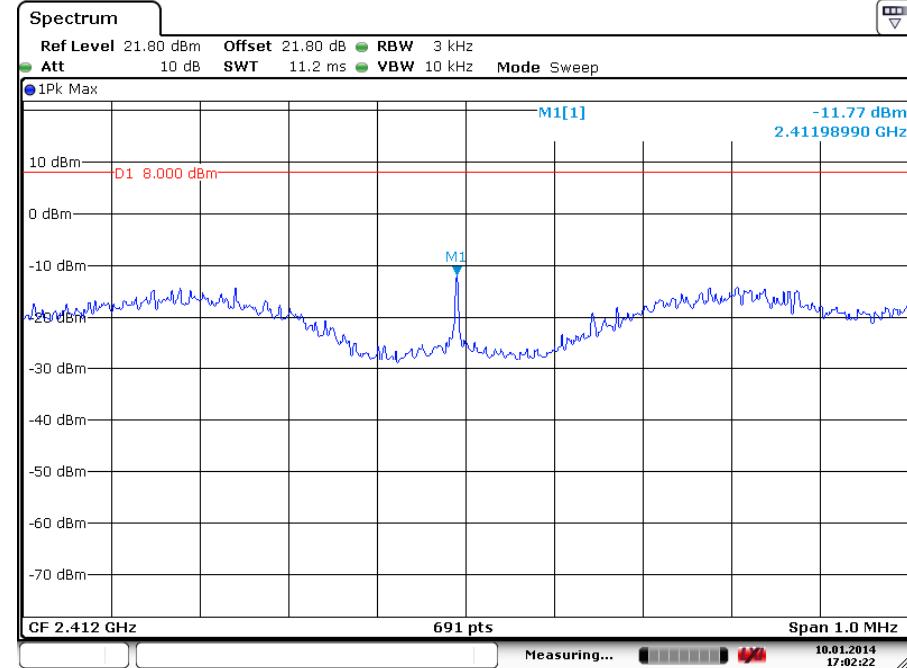
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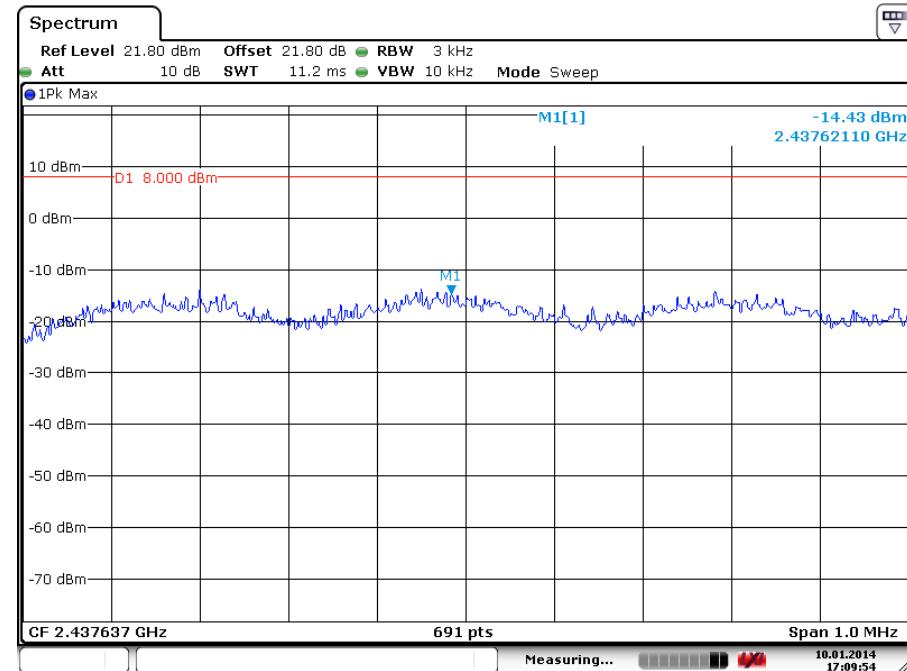
**Ant 2 Mode: 802.11g OFDM BPSK (HT20)**

Channel	MHz	PPD dBm/3 kHz
Low	2412	-11.77



Date: 10.JAN.2014 17:02:23

Mid	2437	-14.43



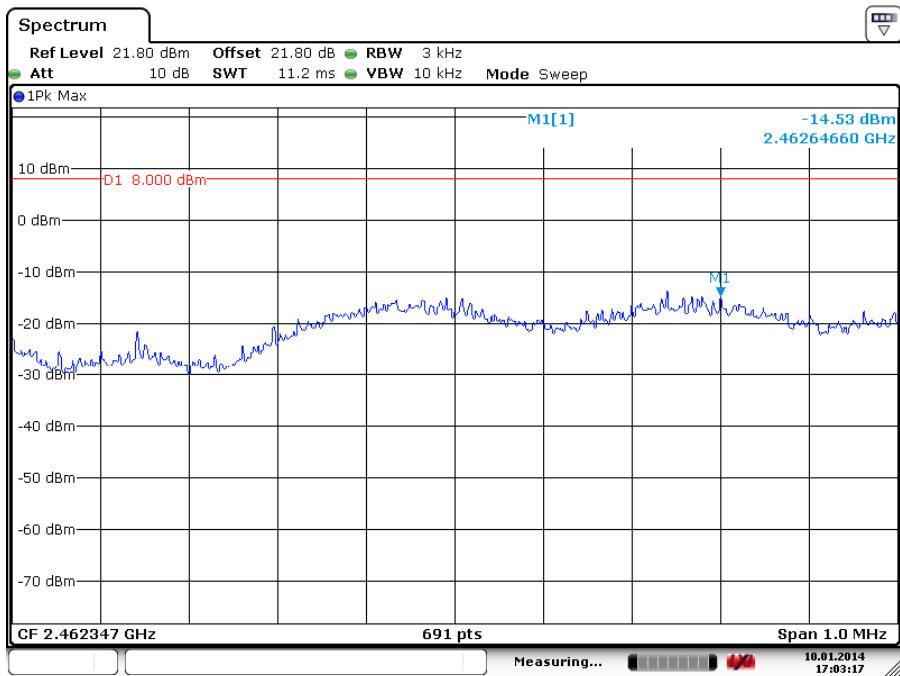
Date: 10.JAN.2014 17:09:54

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Ant 2 Mode:	802.11g	OFDM	BPSK	(HT20)
Channel	MHz	PPD dBm/3 kHz		
Low	2462	-14.53		



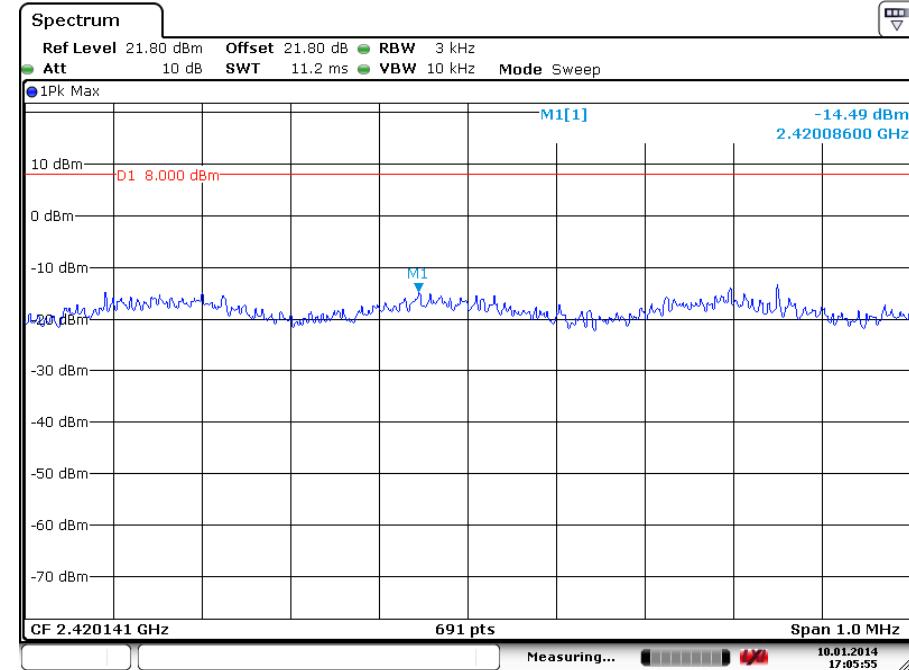
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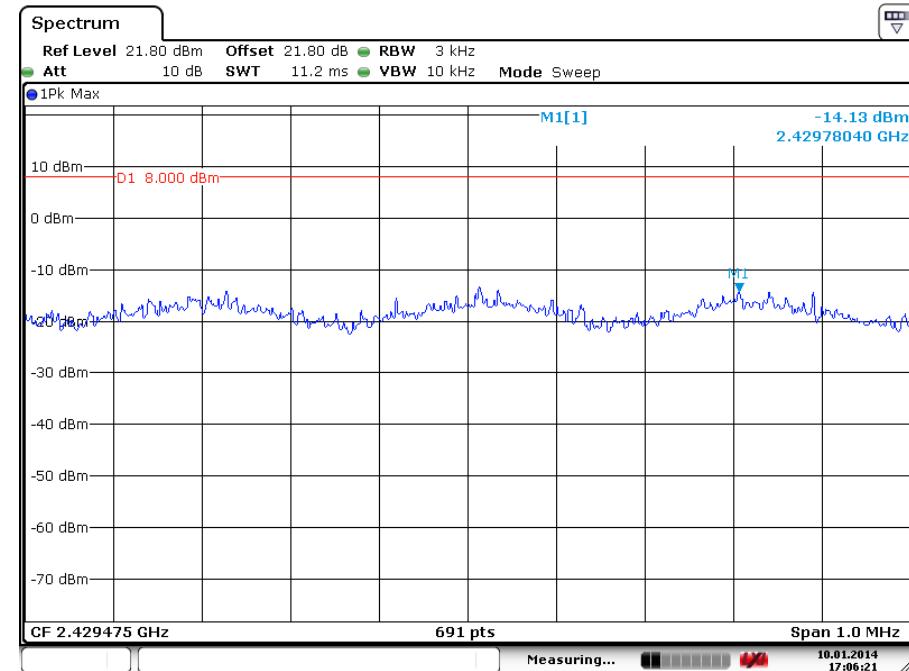
**Ant 2 Mode: 802.11n OFDM QPSK (HT20)**

Channel	MHz	PPD dBm/3 kHz
Low	2412	-14.49



Date: 10.JAN.2014 17:05:56

Mid	2437	-14.13

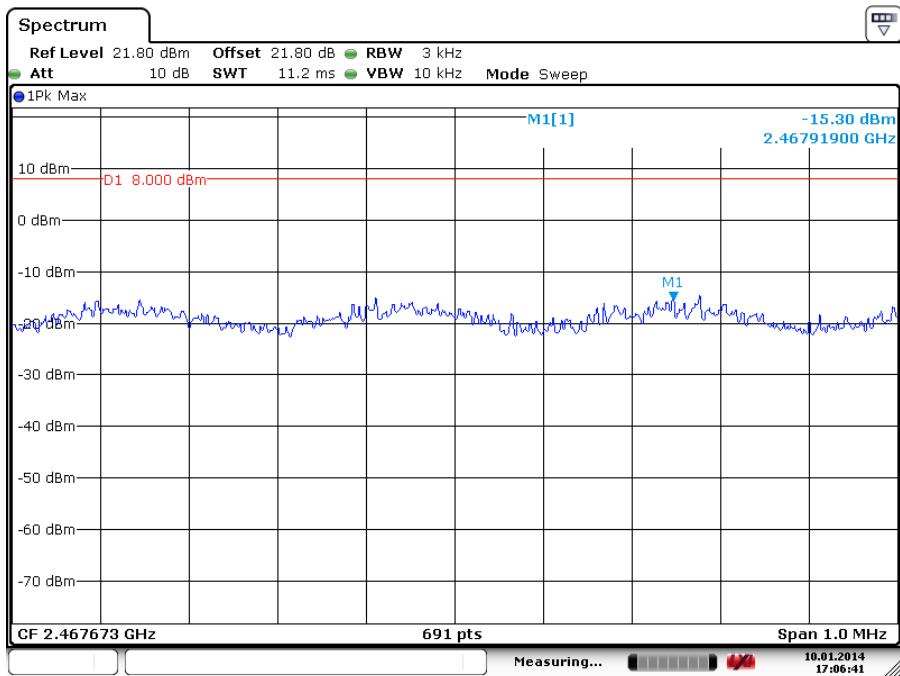


Date: 10.JAN.2014 17:06:22

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Ant 2 Mode:	802.11n	OFDM	QPSK	(HT20)
Channel	MHz	PPD dBm/3 kHz		
Low	2462	-15.3		



Date: 10.JAN.2014 17:06:41

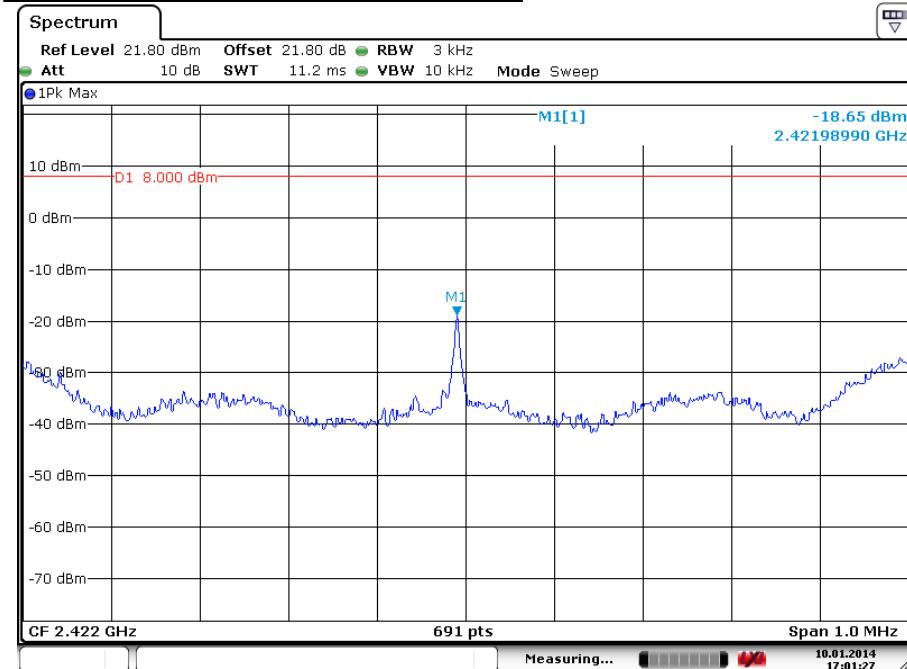
**Produkte**  
Products

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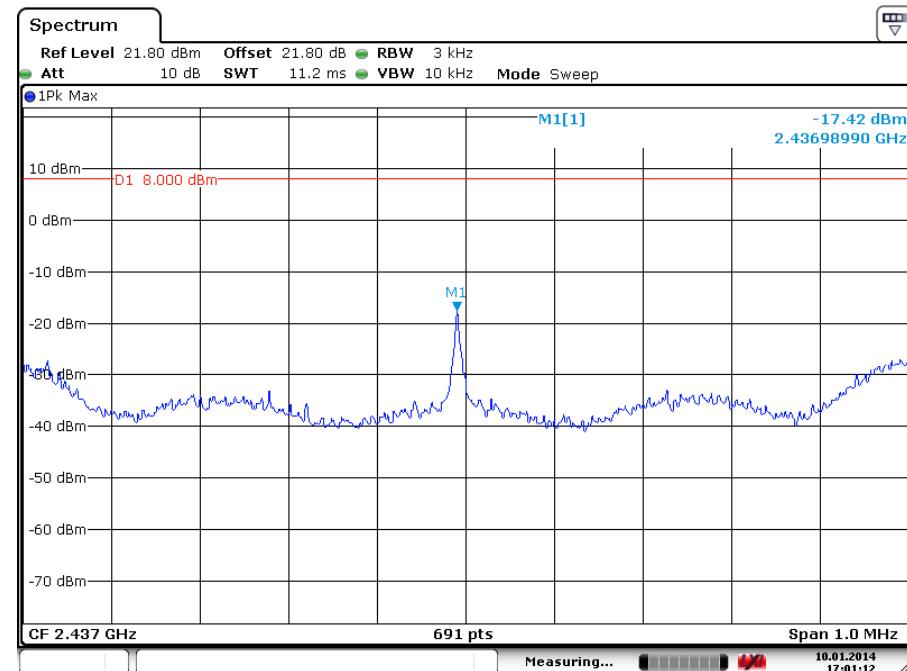
**Ant 2 Mode: 802.11n OFDM QPSK (HT40)**

Channel	MHz	PPD dBm/3 kHz
Low	2422	-18.65



Date: 10.JAN.2014 17:01:27

Mid	2437	-17.42

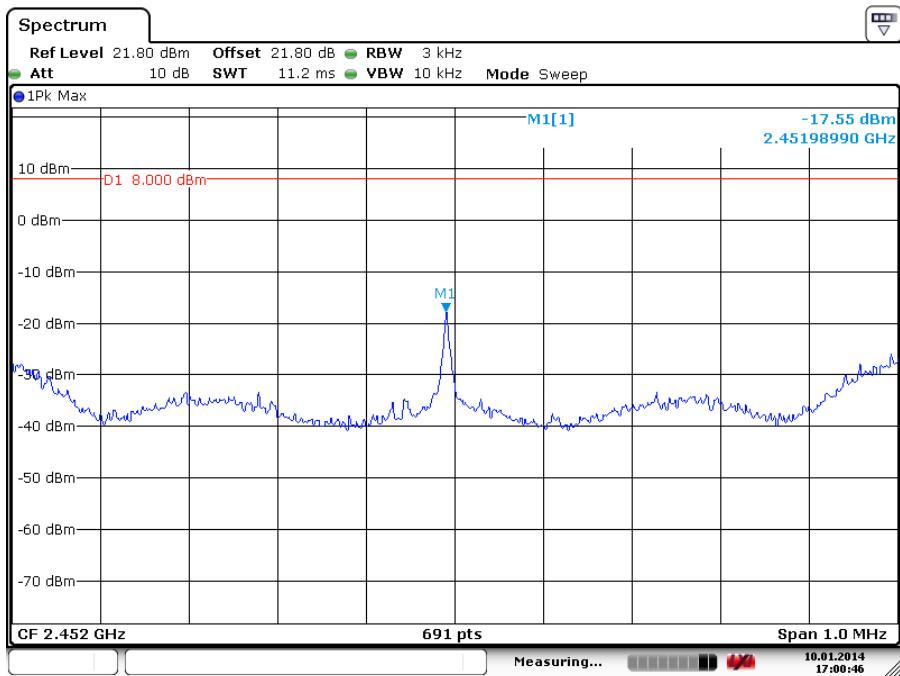


Date: 10.JAN.2014 17:01:13

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Ant 2 Mode:	802.11n	OFDM	QPSK	(HT40)
Channel	MHz	PPD dBm/3 kHz		
Low	2452	-17.55		



Date: 10.JAN.2014 17:00:47

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### 5.1.5 Conducted spurious emissions and Frequency Band Edge measured in 100kHz Bandwidth

#### RESULT:

**Passed**

Test standard	:	FCC part 15.247(d), RSS-210 A8.5
Basic standard	:	ANSI C63.10:2009, KDB558074
Limit	:	20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power)
Kind of test site	:	Shielded room

#### Test setup

Test Channel	:	Low/ High
Operation mode	:	A
Ambient temperature	:	18-22 °C
Relative humidity	:	50-65 %
Atmospheric pressure	:	100-103 kPa

All emissions are more than 20dB below fundamental, details refer to following test plot, and compliance is achieved as well.

Due to the small size of the product and that there are no inductive components of significant size, 9kHz to 30MHz frequency range is not tested based on technical judgment.

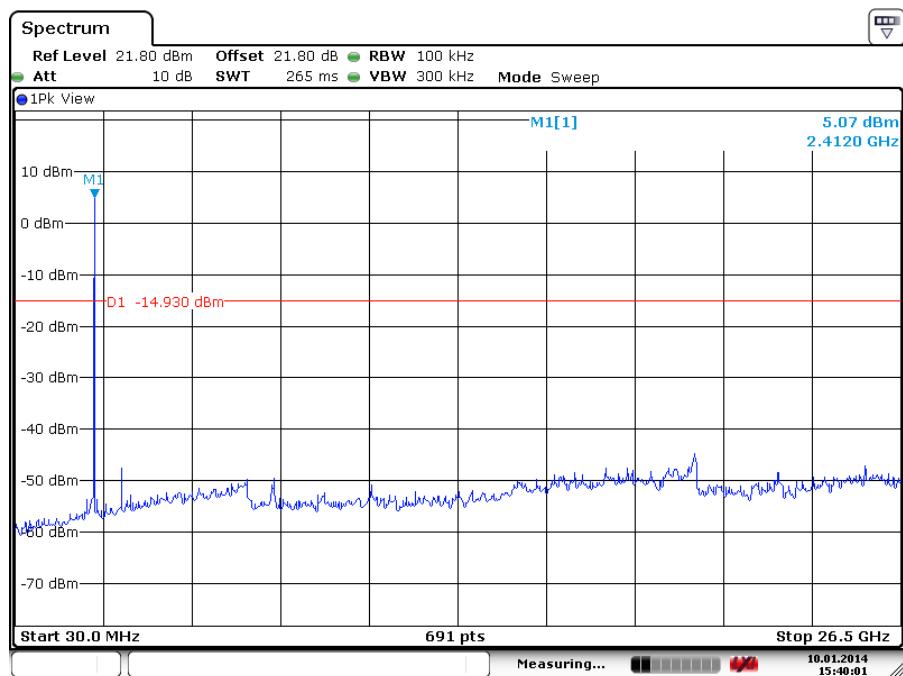
**Prüfbericht - Nr.: 10045580 001**  
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### Test Plot of 100kHz Conducted Emissions

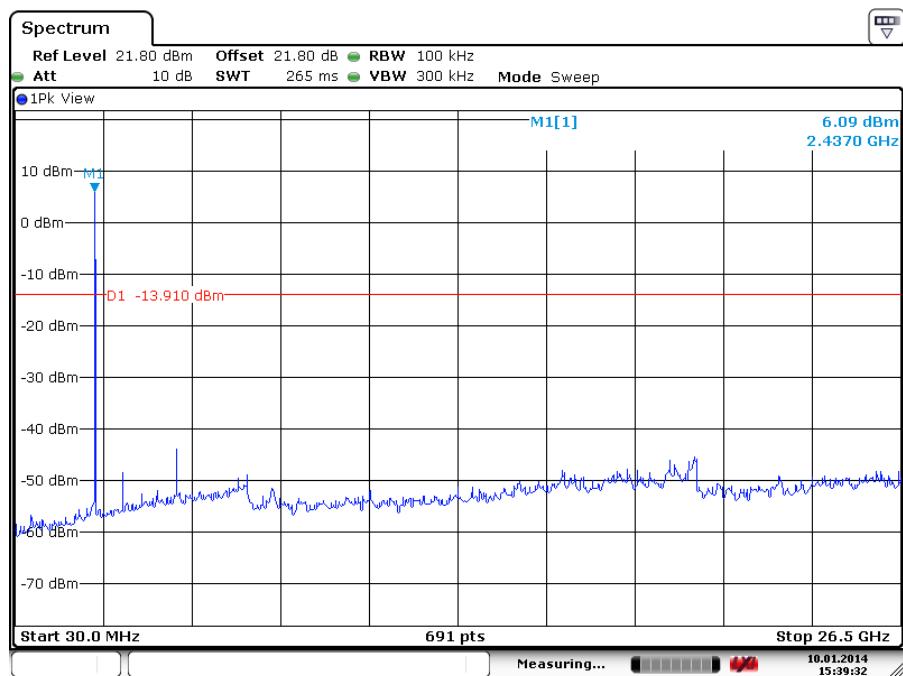
Ant 1 Mode: 802.11b DSSS QPSK (HT17)

#### Low Channel



Date: 10.JAN.2014 15:40:01

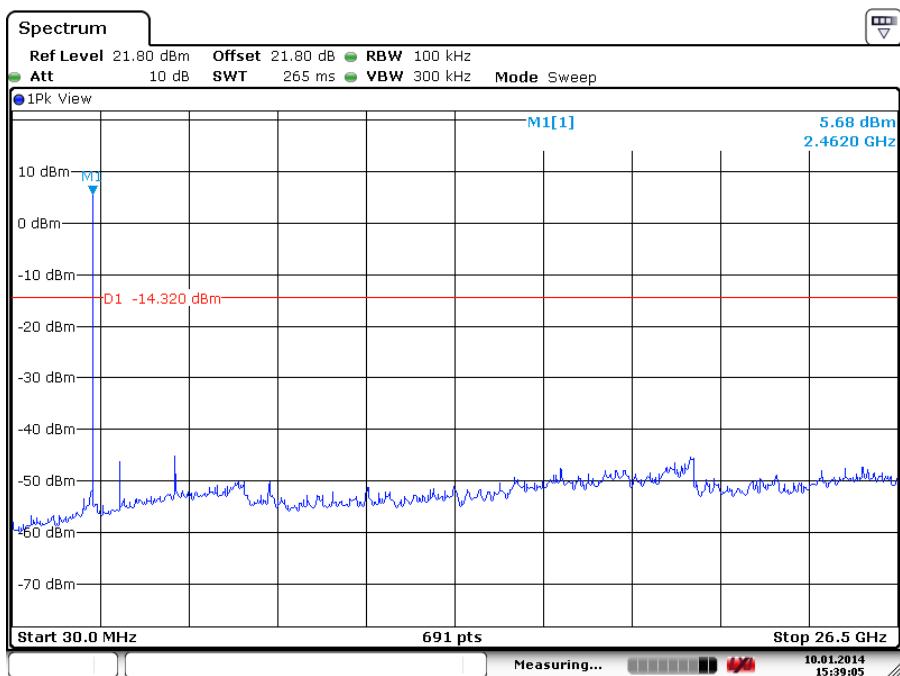
#### Middle Channel



Date: 10.JAN.2014 15:39:32

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## High Channel



## Prüfbericht - Nr.: 10045580 001

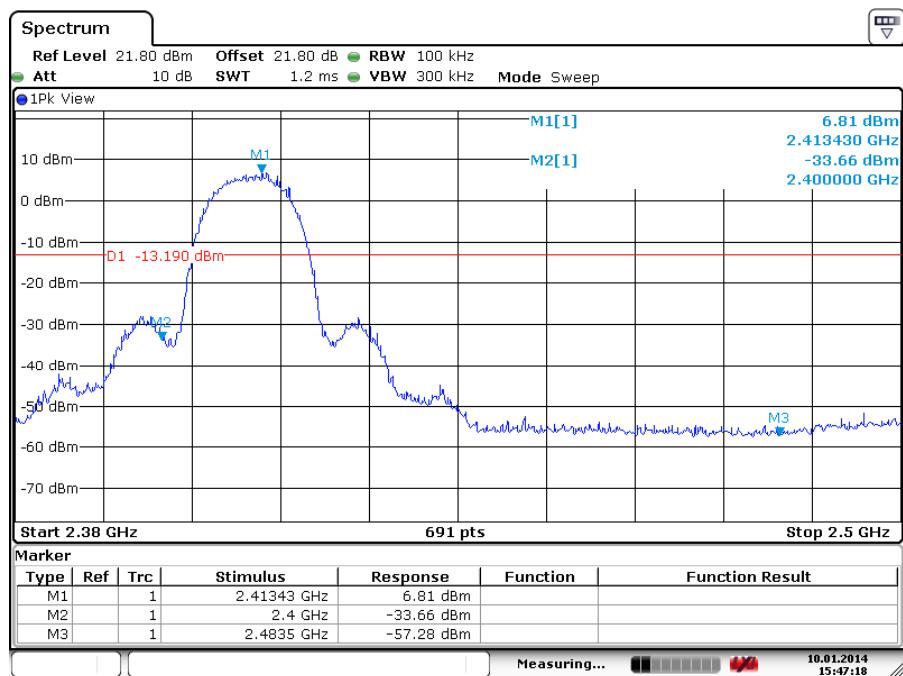
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### Test Plot of 100kHz Bandwidth at Frequency Band Edges

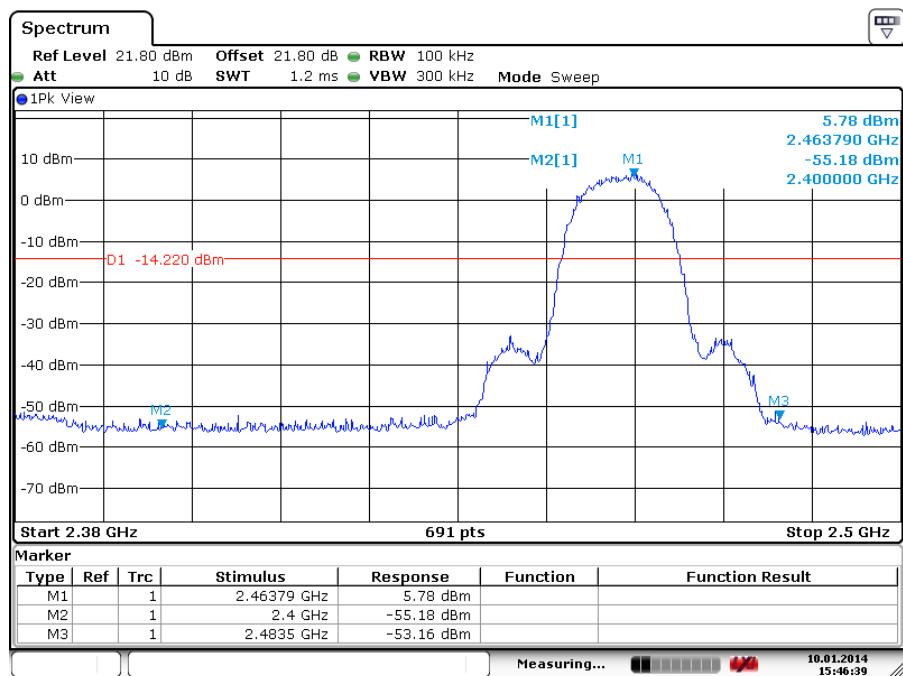
Ant 1 Mode: 802.11b DSSS QPSK (HT17)

#### Low Channel



Date: 10.JAN.2014 15:47:19

#### High Channel



Date: 10.JAN.2014 15:46:39

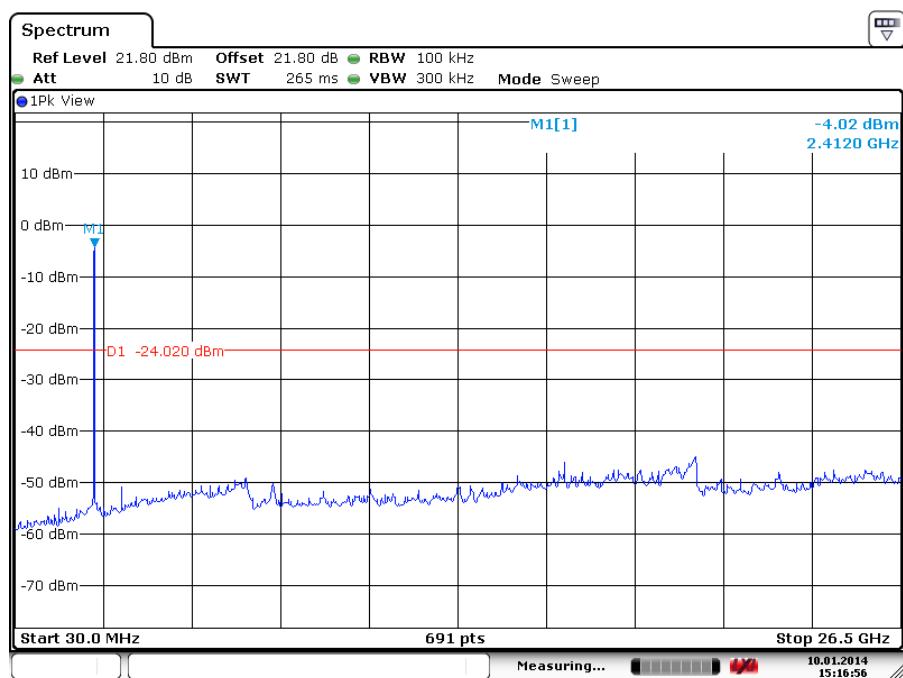
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### Test Plot of 100kHz Conducted Emissions

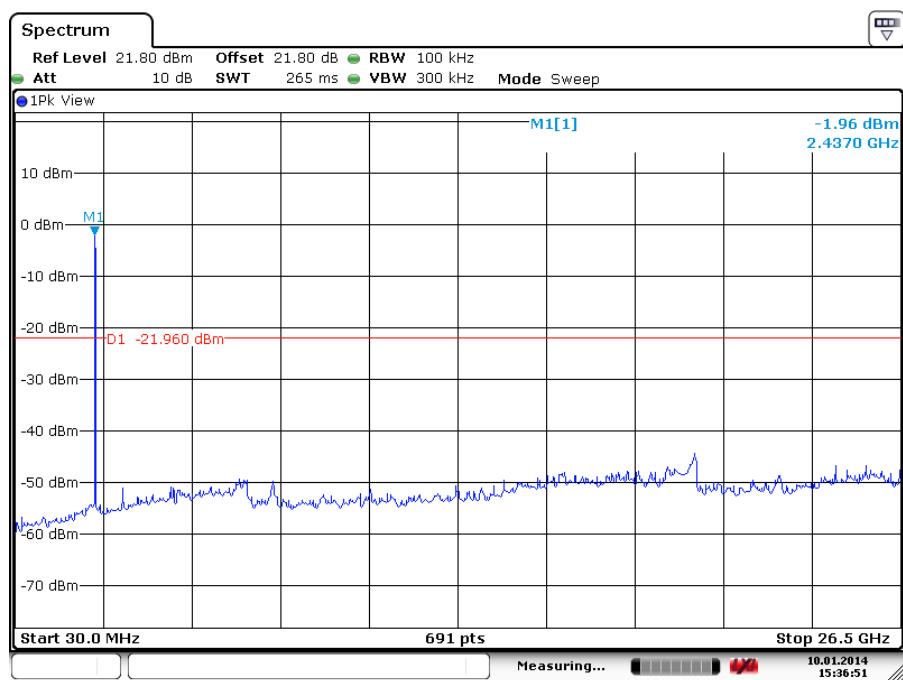
Ant 1 Mode: 802.11g OFDM BPSK (HT20)

#### Low Channel



Date: 10.JAN.2014 15:16:57

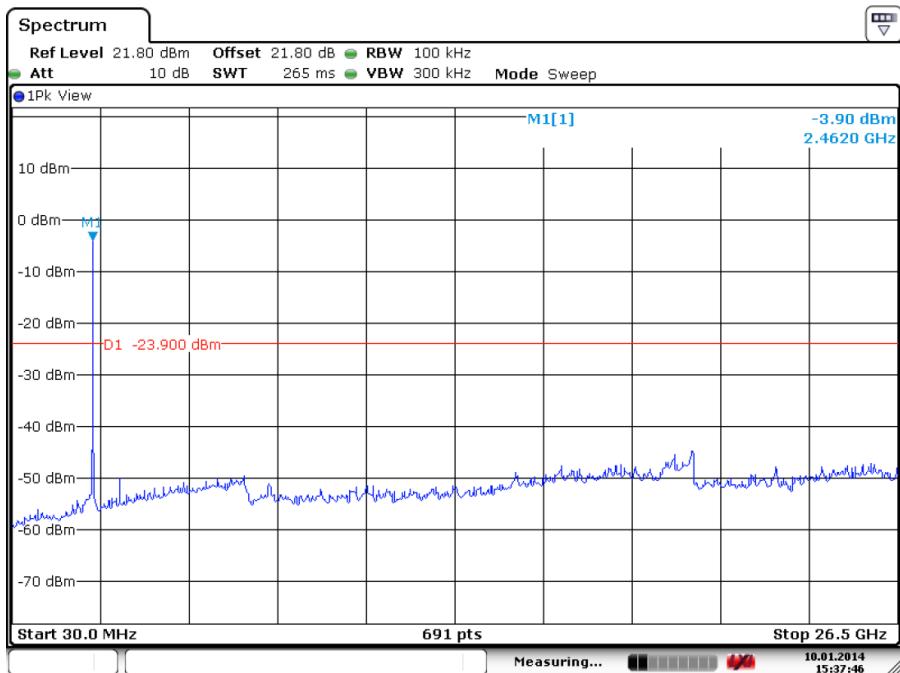
#### Middle Channel



Date: 10.JAN.2014 15:36:51

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## High Channel



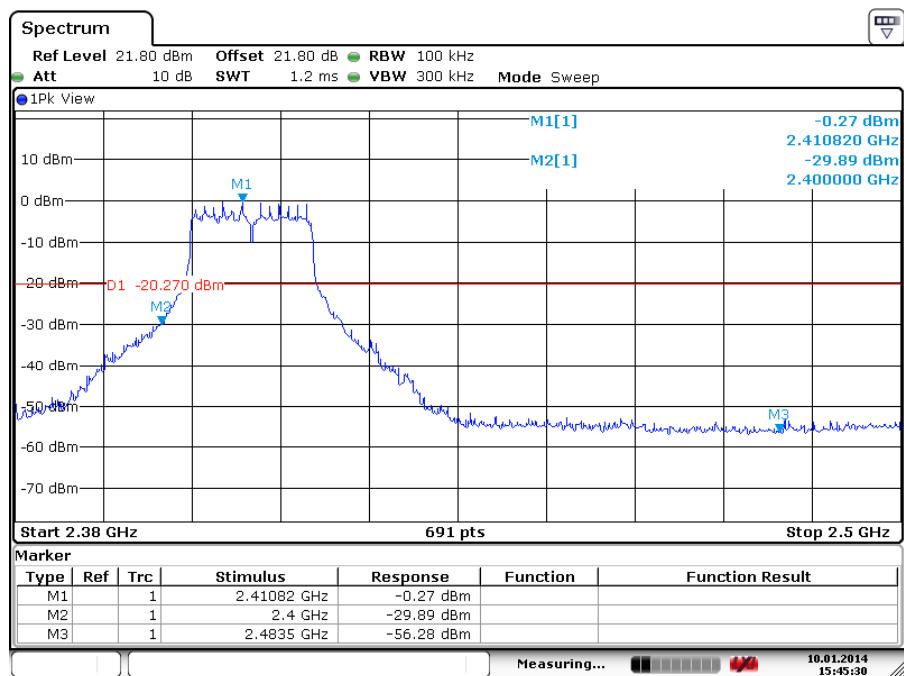
Date: 10.JAN.2014 15:37:46

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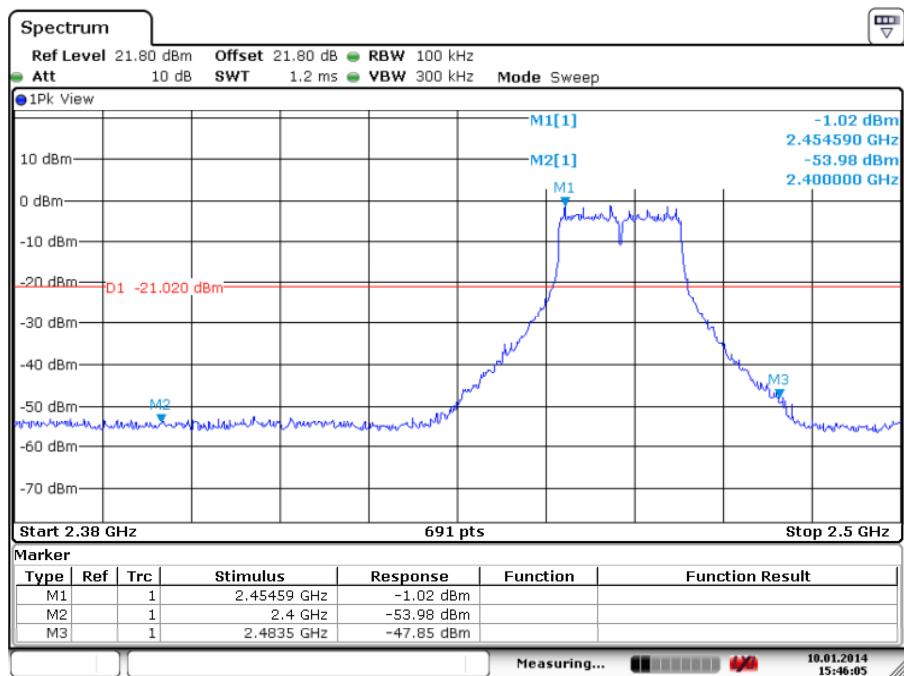
**Test Plot of 100kHz Bandwidth at Frequency Band Edges**  
Ant 1 Mode: 802.11g OFDM BPSK (HT20)

**Low Channel**



Date: 10.JAN.2014 15:45:30

**High Channel**



Date: 10.JAN.2014 15:46:06

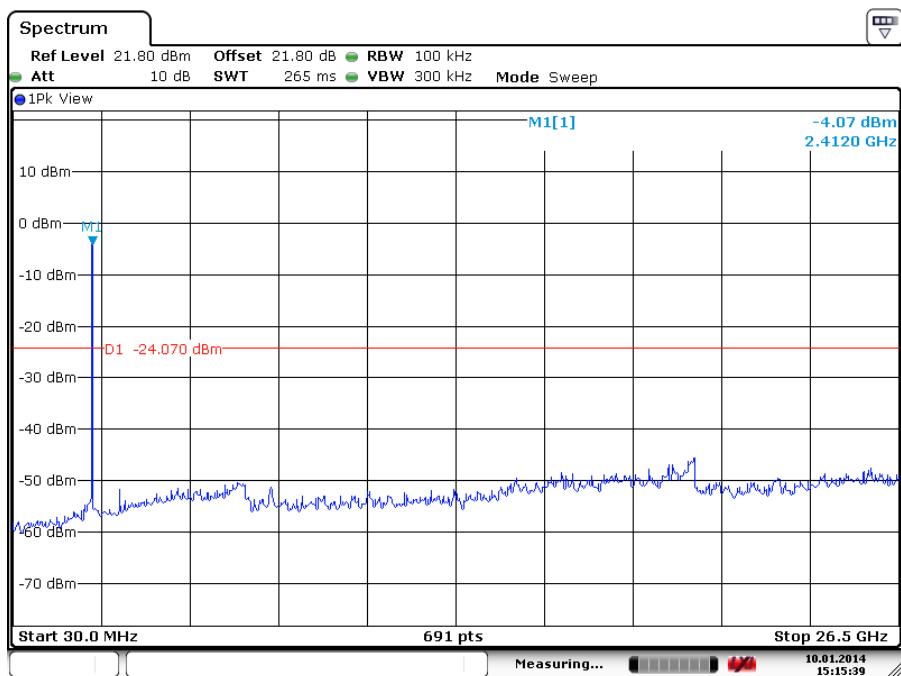
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### Test Plot of 100kHz Conducted Emissions

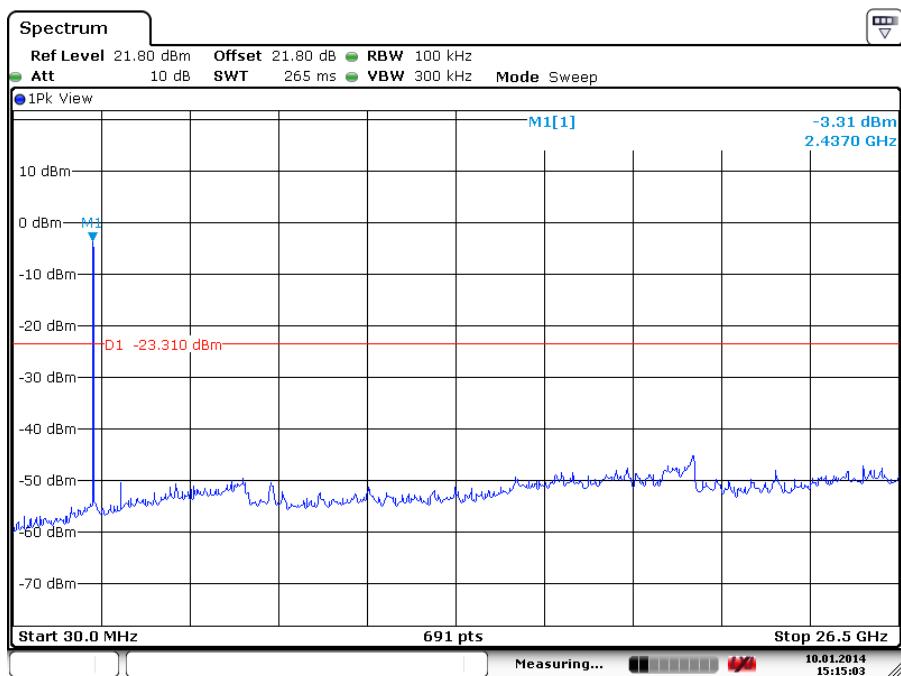
Ant 1 Mode: 802.11n OFDM QPSK (HT20)

#### Low Channel



Date: 10.JAN.2014 15:15:38

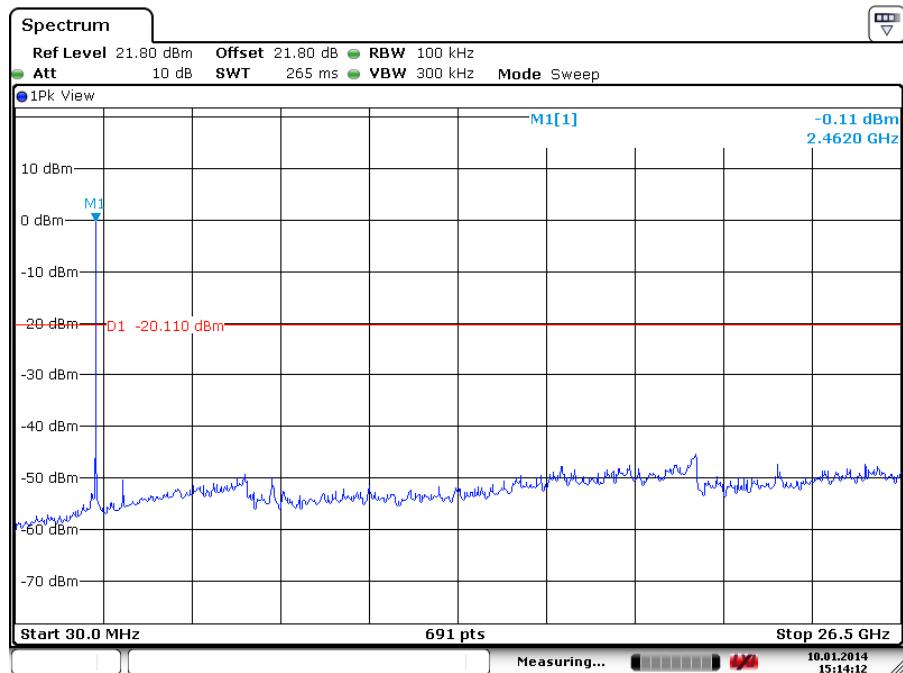
#### Middle Channel



Date: 10.JAN.2014 15:15:03

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## High Channel



Date: 10.JAN.2014 15:14:11

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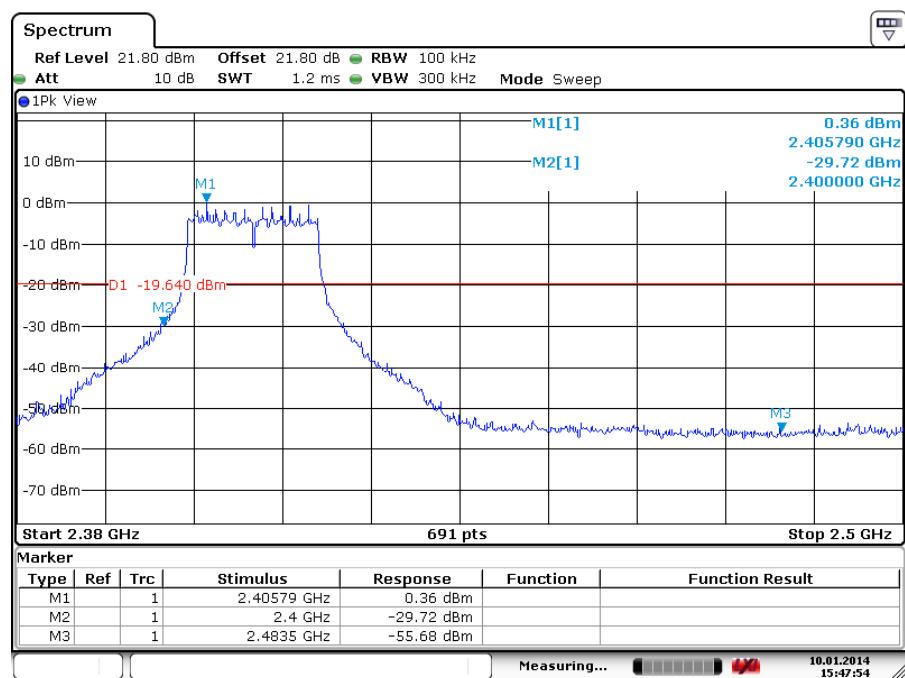
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### Test Plot of 100kHz Bandwidth at Frequency Band Edges

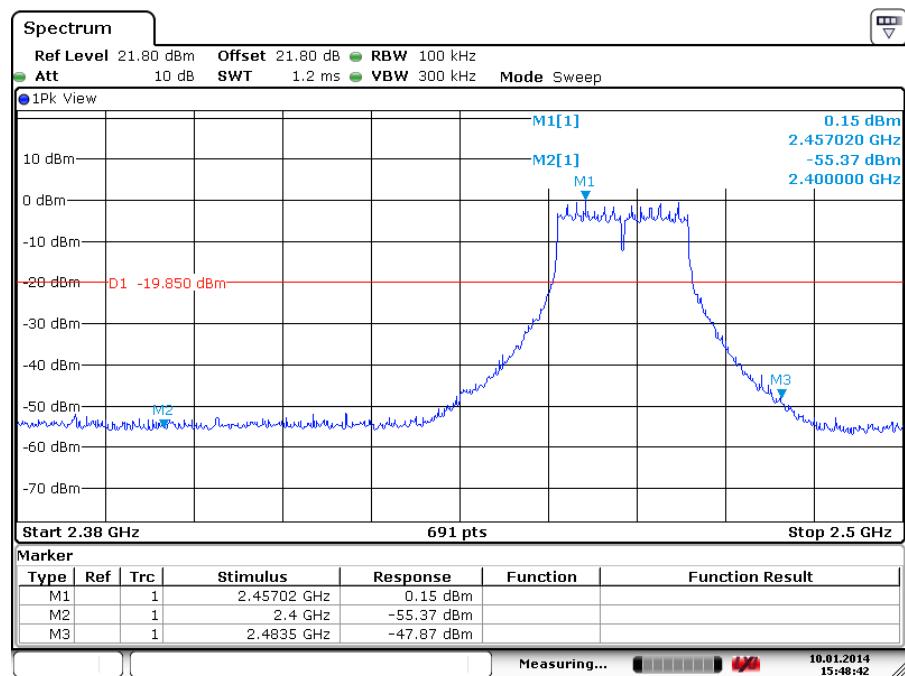
Ant 1 Mode: 802.11n OFDM QPSK (HT20)

#### Low Channel



Date: 10.JAN.2014 15:47:54

#### High Channel



Date: 10.JAN.2014 15:48:42

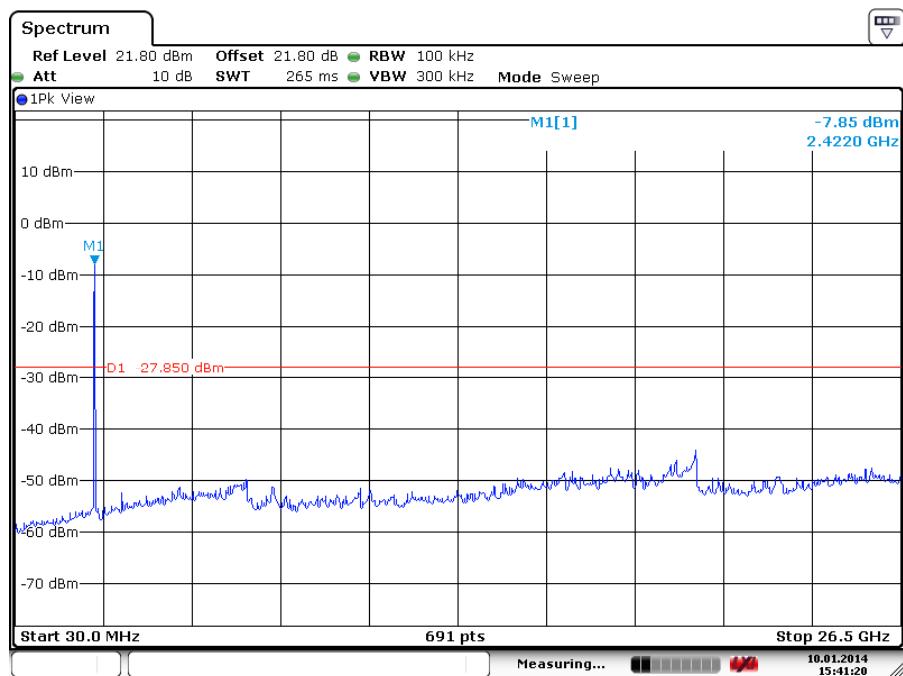
**Prüfbericht - Nr.: 10045580 001**  
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### Test Plot of 100kHz Conducted Emissions

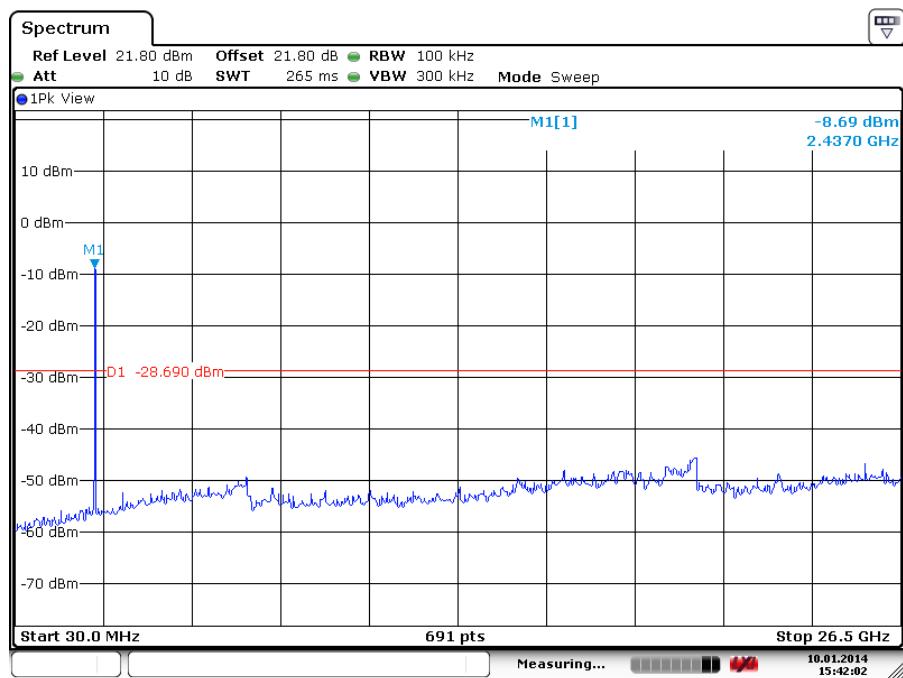
Ant 1 Mode: 802.11n OFDM QPSK (HT40)

#### Low Channel



Date: 10.JAN.2014 15:41:19

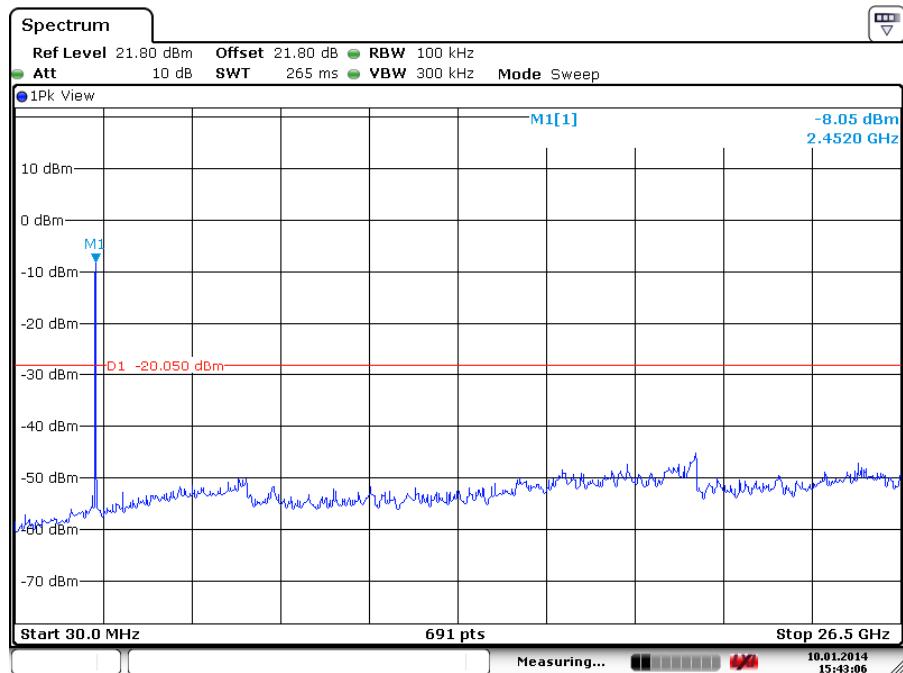
#### Middle Channel



Date: 10.JAN.2014 15:42:01

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## High Channel



Date: 10.JAN.2014 15:43:06

## Prüfbericht - Nr.: 10045580 001

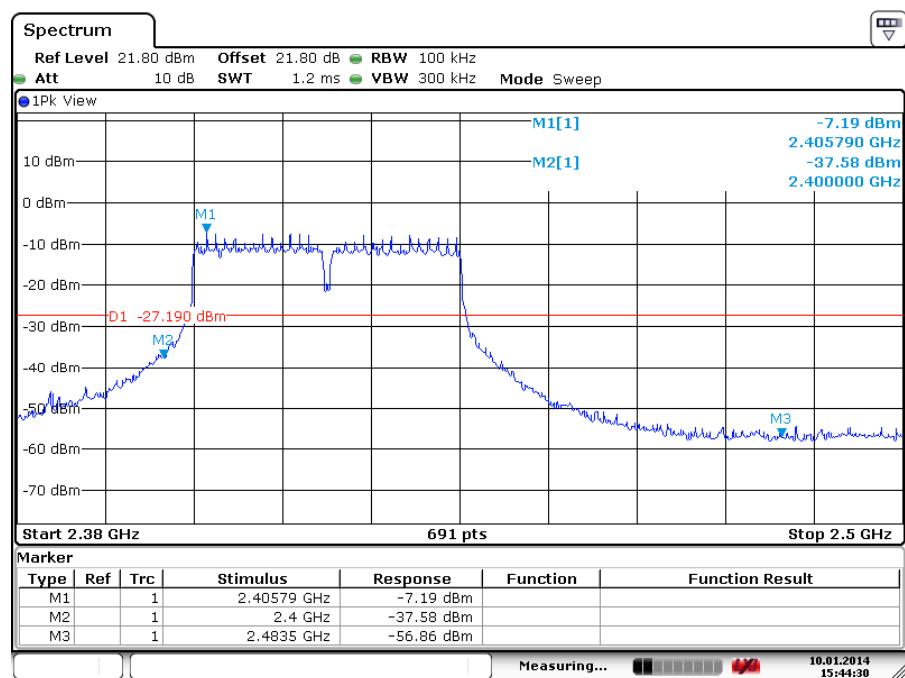
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### Test Plot of 100kHz Bandwidth at Frequency Band Edges

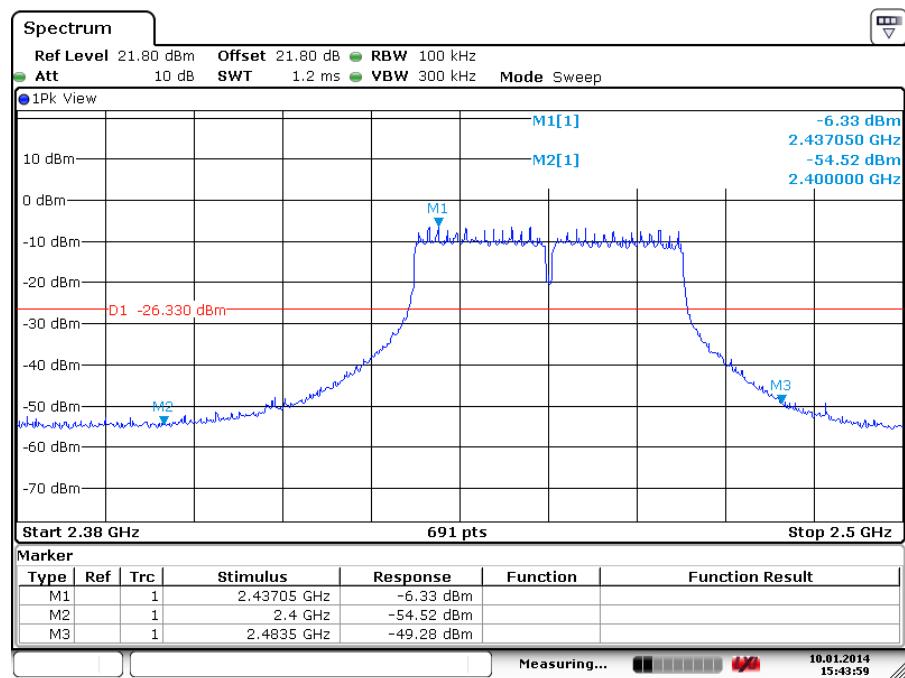
Ant 1 Mode: 802.11n OFDM QPSK (HT40)

#### Low Channel



Date: 10.JAN.2014 15:44:30

#### High Channel



Date: 10.JAN.2014 15:43:59

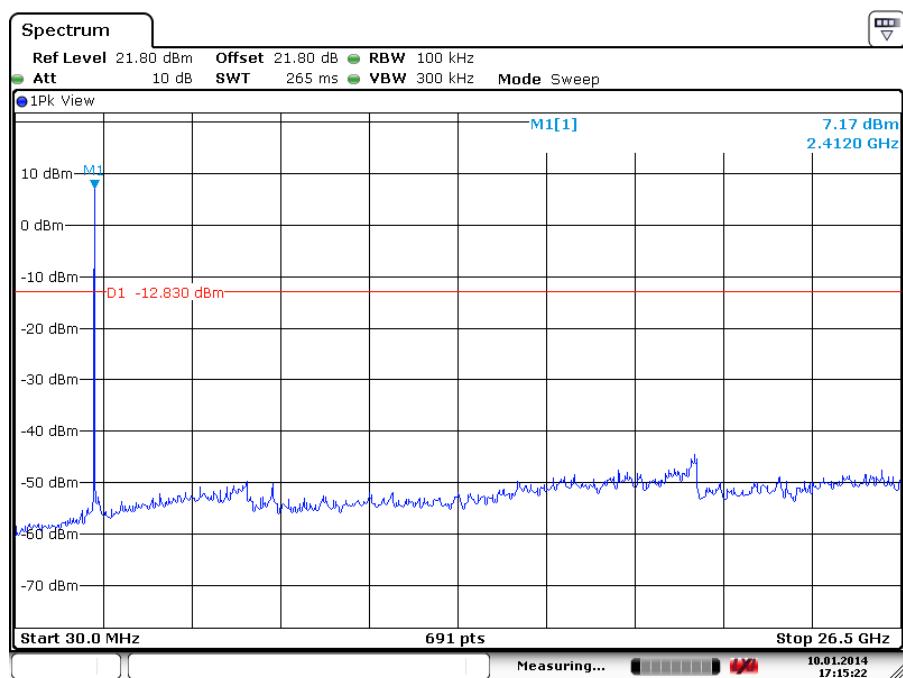
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### Test Plot of 100kHz Conducted Emissions

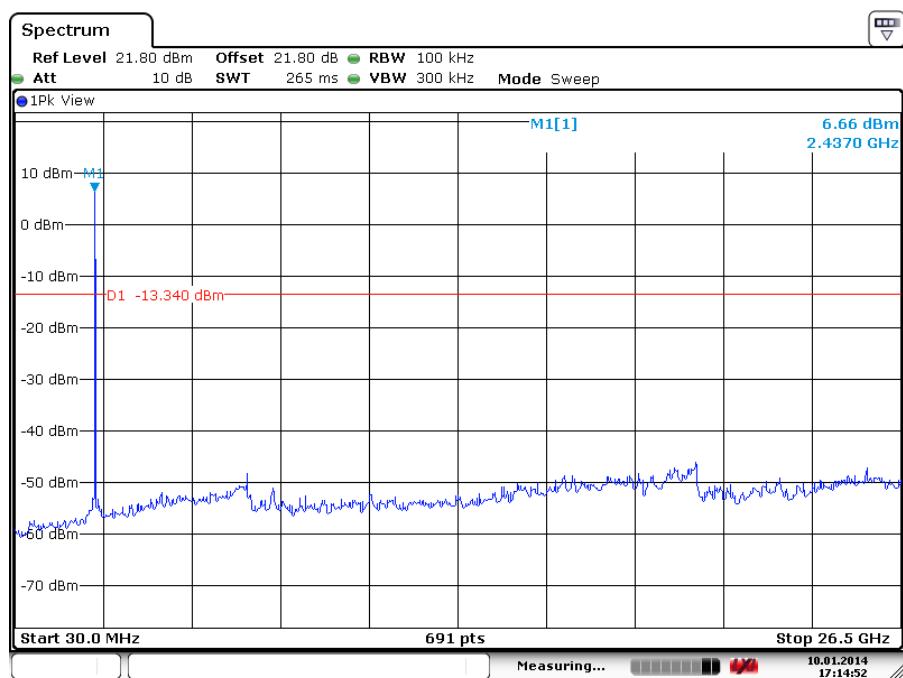
Ant 2 Mode: 802.11b DSSS QPSK (HT17)

#### Low Channel



Date: 10.JAN.2014 17:15:23

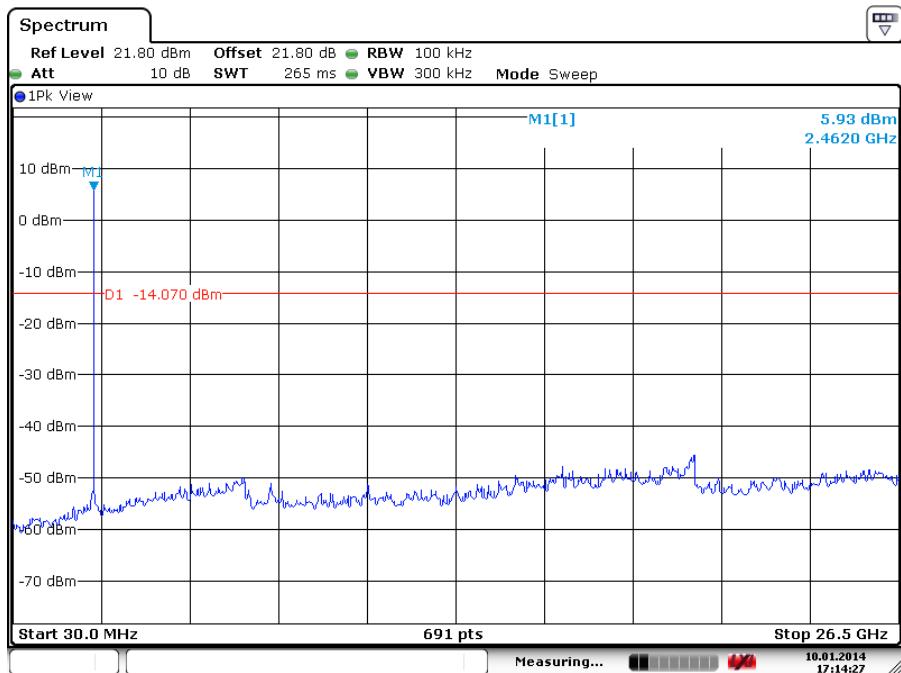
#### Middle Channel



Date: 10.JAN.2014 17:14:53

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## High Channel



## Prüfbericht - Nr.: 10045580 001

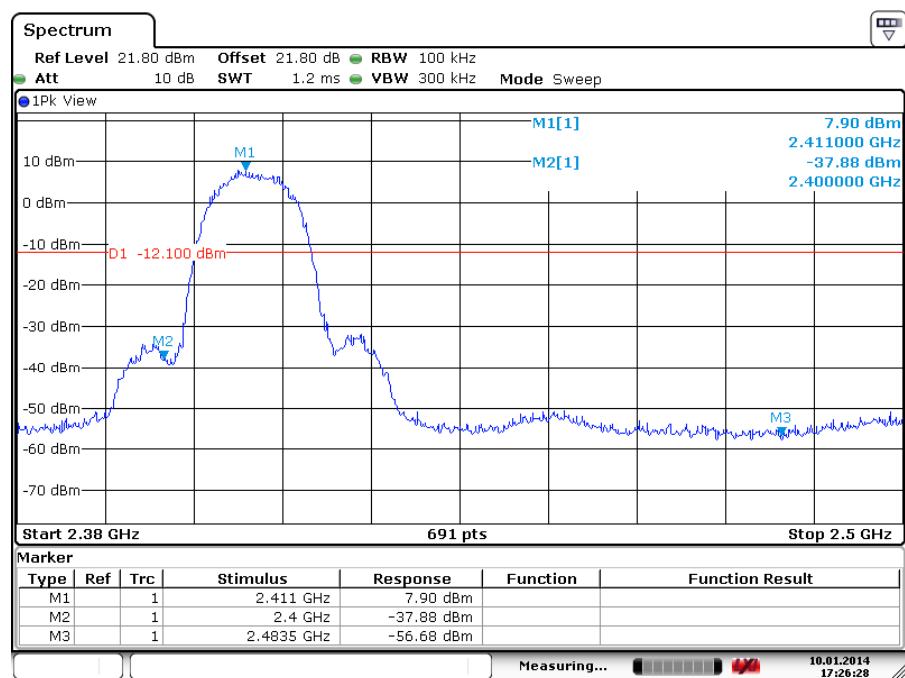
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### Test Plot of 100kHz Bandwidth at Frequency Band Edges

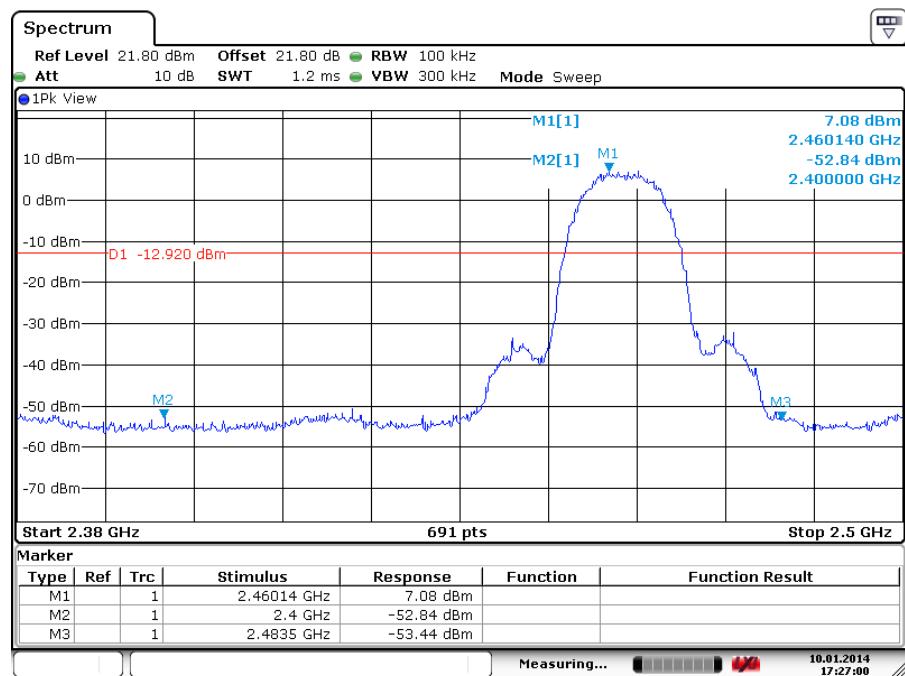
Ant 2 Mode: 802.11b DSSS QPSK (HT17)

#### Low Channel



Date: 10.JAN.2014 17:26:29

#### High Channel



Date: 10.JAN.2014 17:27:00

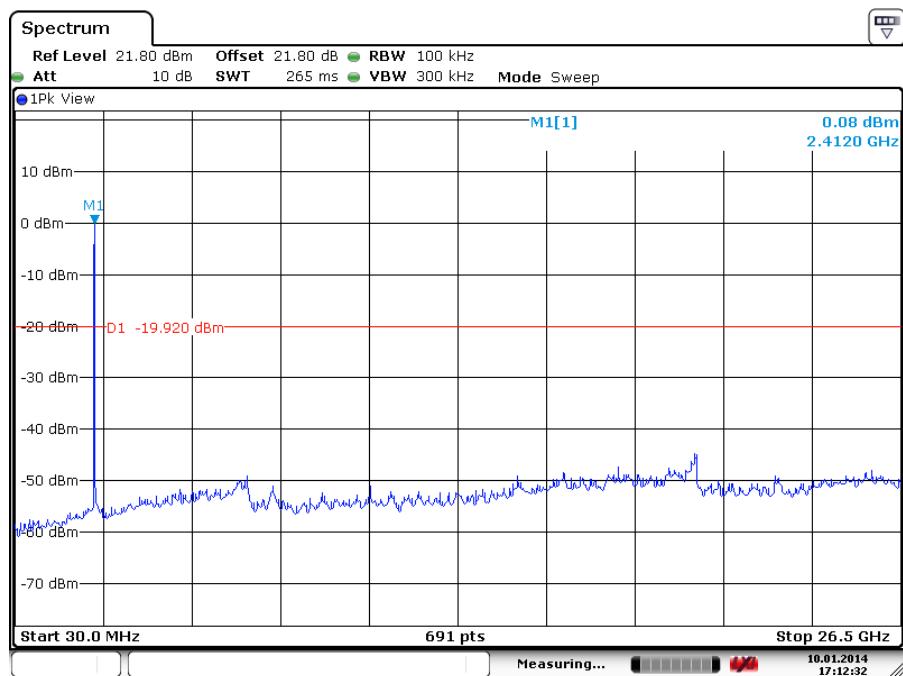
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### Test Plot of 100kHz Conducted Emissions

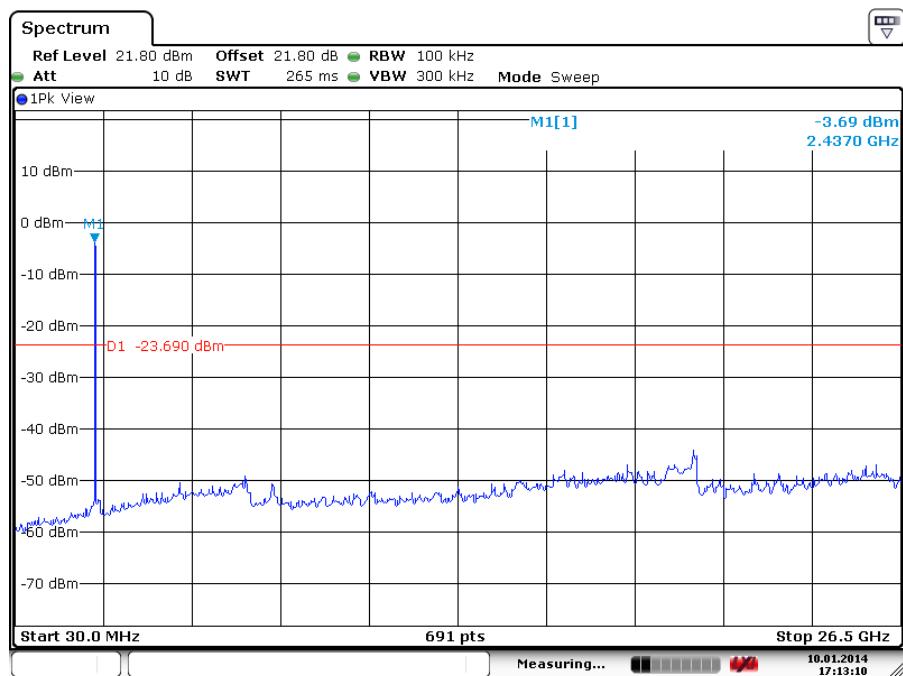
Ant 2 Mode: 802.11g OFDM BPSK (HT20)

#### Low Channel



Date: 10.JAN.2014 17:12:33

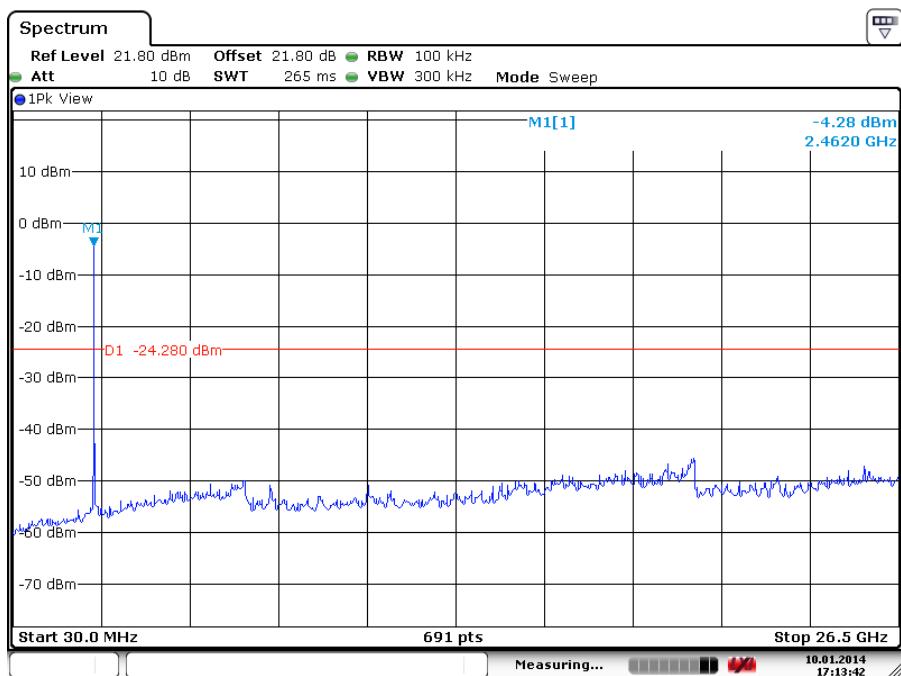
#### Middle Channel



Date: 10.JAN.2014 17:13:11

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## High Channel



## Prüfbericht - Nr.: 10045580 001

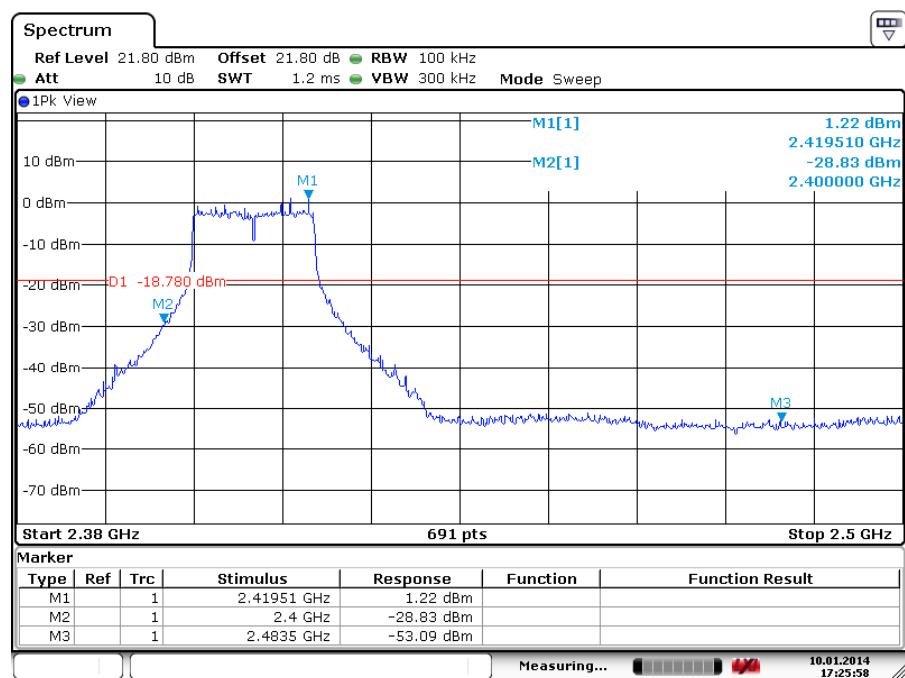
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### Test Plot of 100kHz Bandwidth at Frequency Band Edges

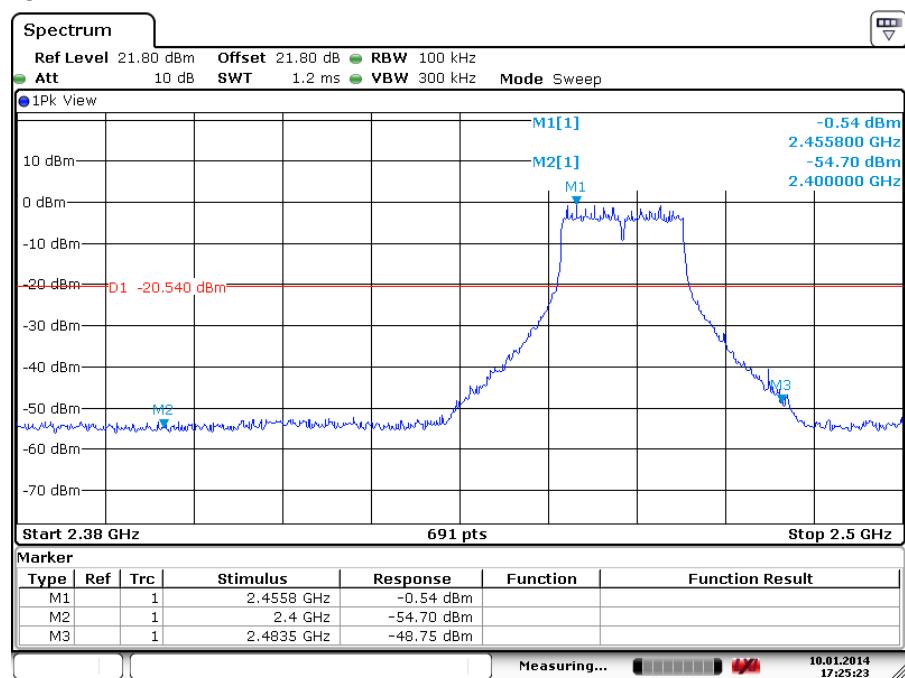
Ant 2 Mode: 802.11g OFDM BPSK (HT20)

#### Low Channel



Date: 10.JAN.2014 17:25:58

#### High Channel



Date: 10.JAN.2014 17:25:23

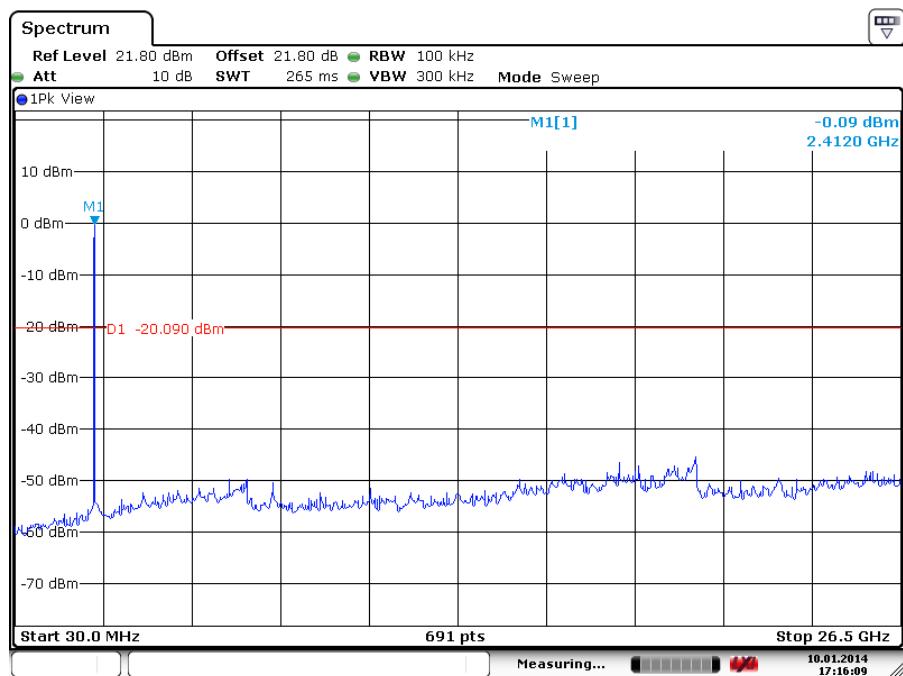
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### Test Plot of 100kHz Conducted Emissions

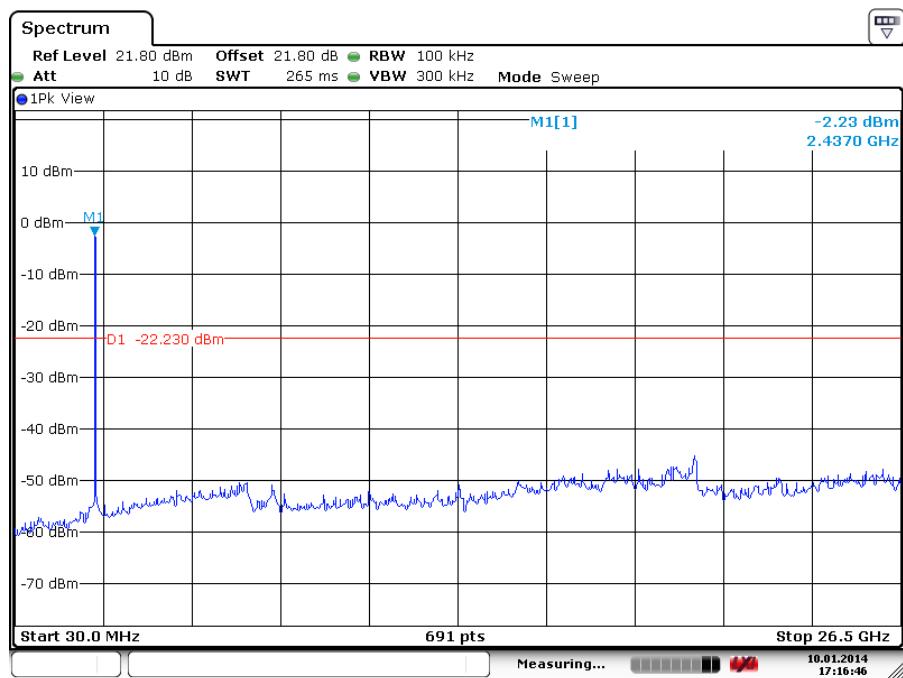
Ant 2 Mode: 802.11n OFDM QPSK (HT20)

#### Low Channel



Date: 10.JAN.2014 17:16:09

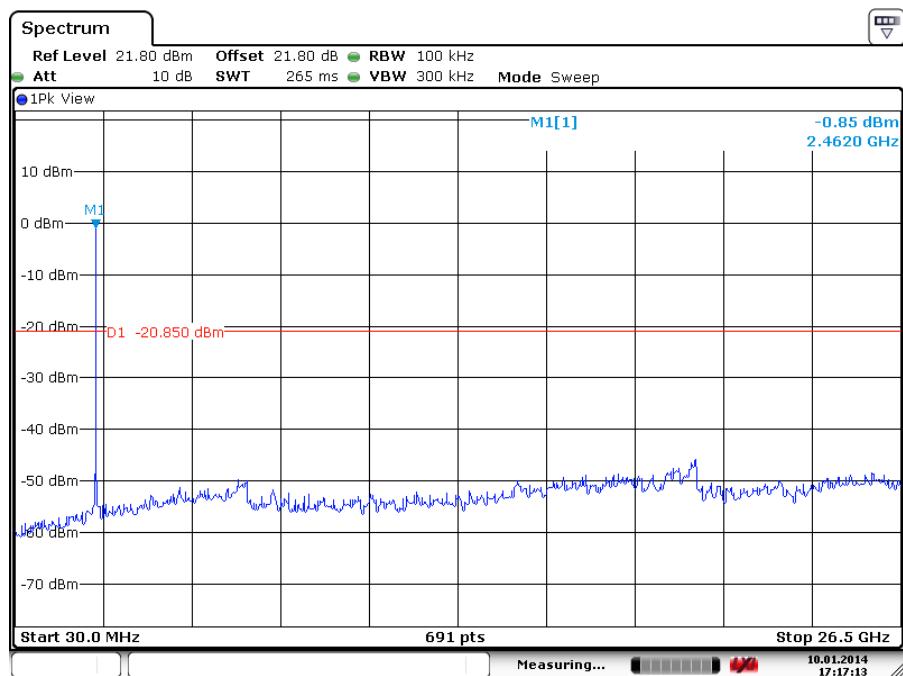
#### Middle Channel



Date: 10.JAN.2014 17:16:46

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## High Channel



Date: 10.JAN.2014 17:17:13

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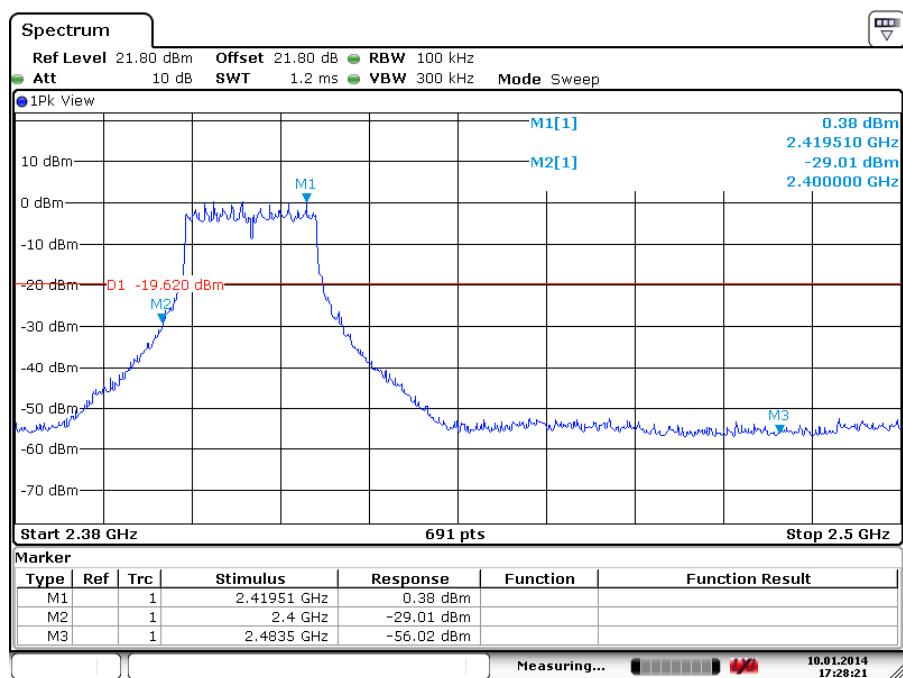
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### Test Plot of 100kHz Bandwidth at Frequency Band Edges

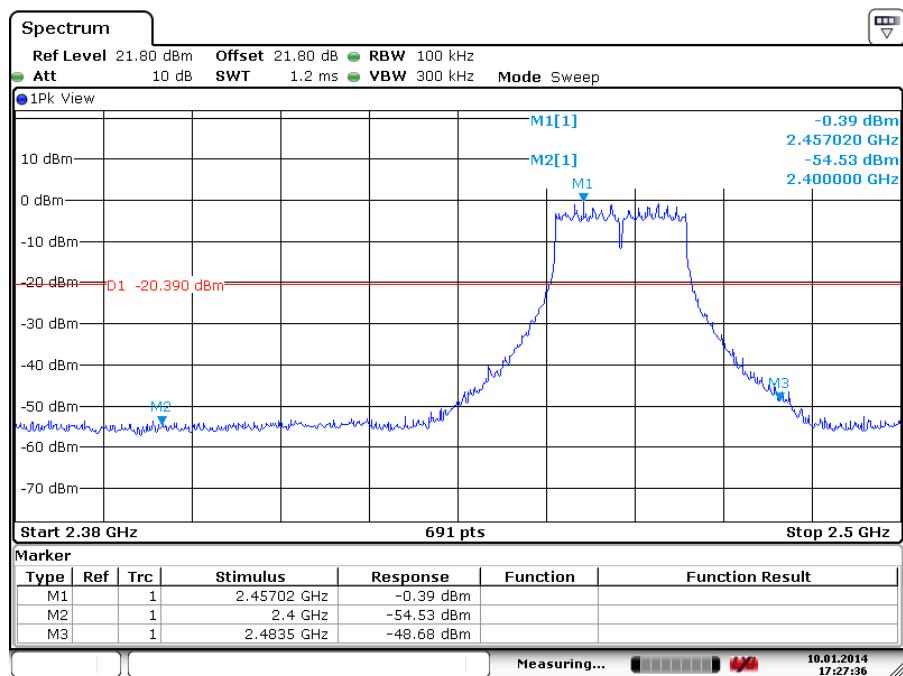
Ant 2 Mode: 802.11n OFDM QPSK (HT20)

#### Low Channel



Date: 10.JAN.2014 17:28:21

#### High Channel



Date: 10.JAN.2014 17:27:37

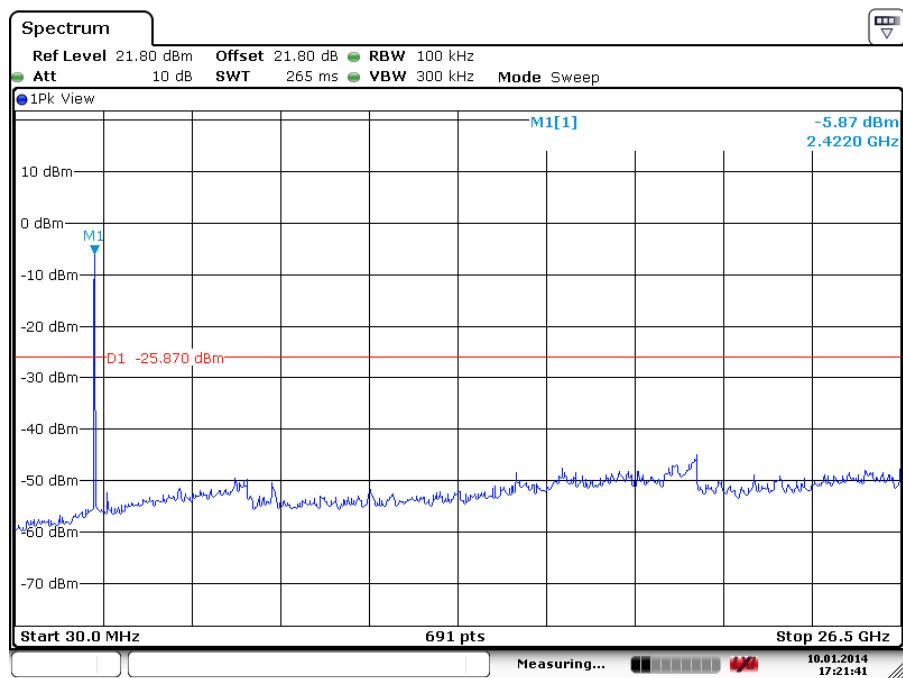
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### Test Plot of 100kHz Conducted Emissions

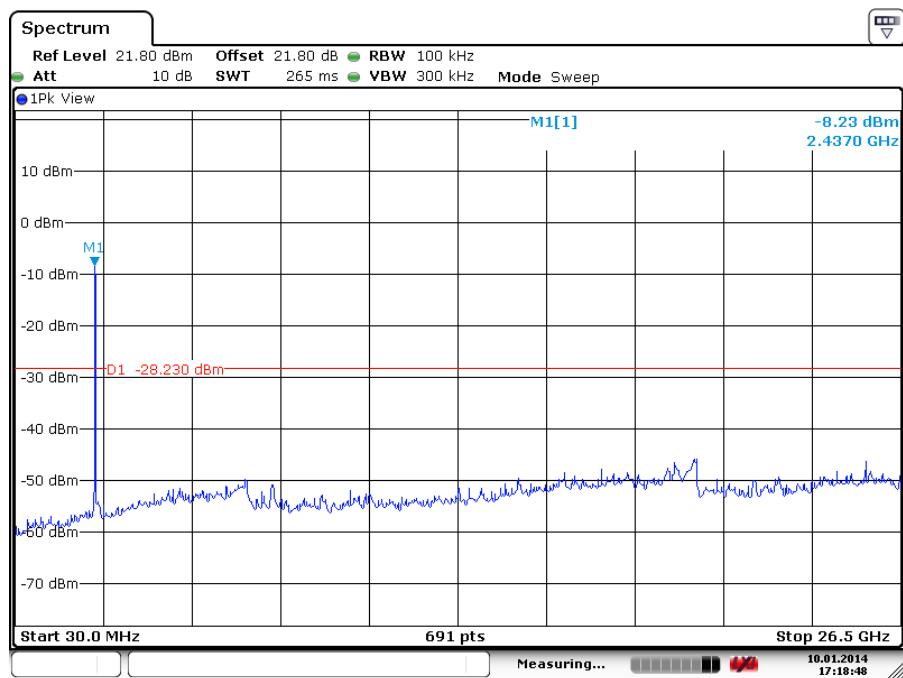
Ant 2 Mode: 802.11n OFDM QPSK (HT40)

#### Low Channel



Date: 10.JAN.2014 17:21:42

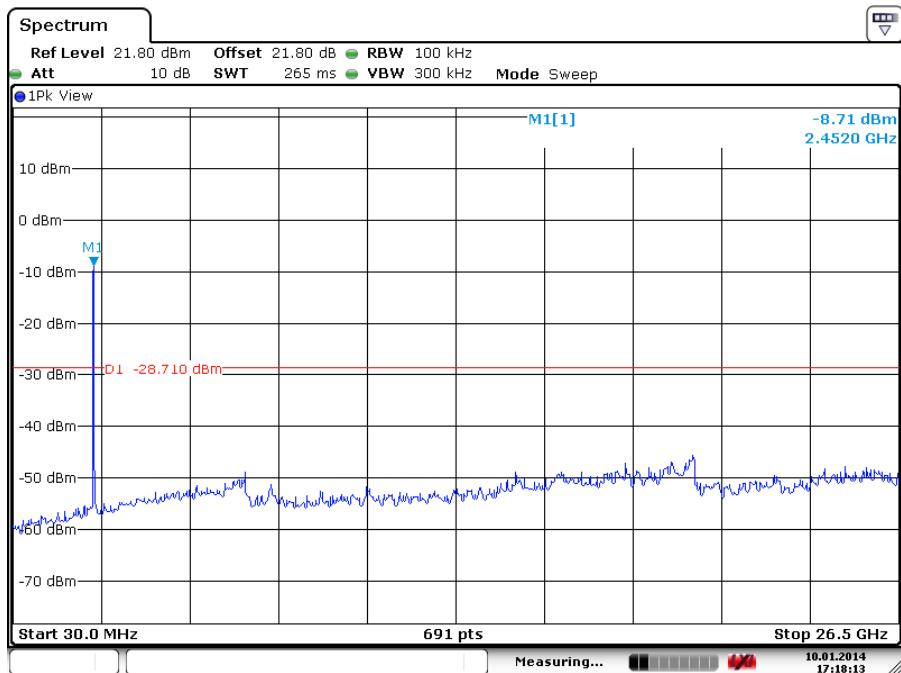
#### Middle Channel



Date: 10.JAN.2014 17:18:49

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## High Channel



Date: 10.JAN.2014 17:18:14

## Prüfbericht - Nr.: 10045580 001

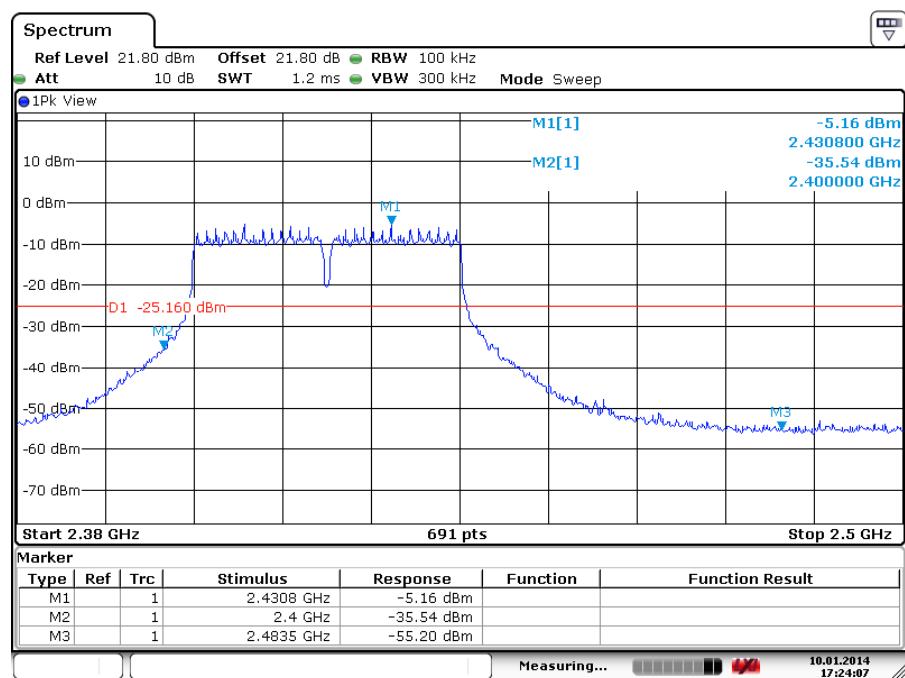
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### Test Plot of 100kHz Bandwidth at Frequency Band Edges

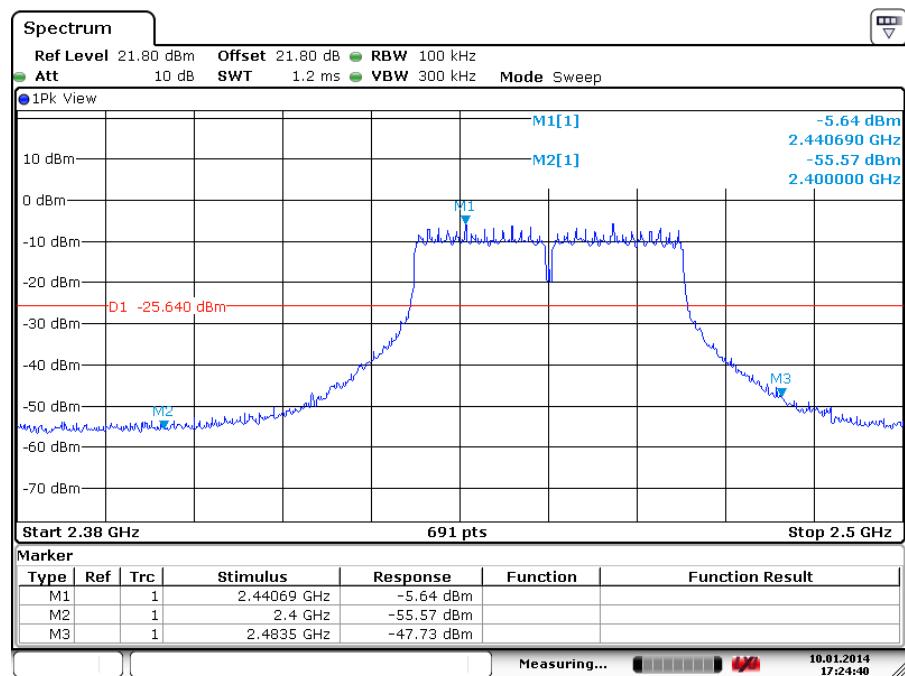
Ant 2 Mode: 802.11n OFDM QPSK (HT40)

#### Low Channel



Date: 10.JAN.2014 17:24:08

#### High Channel



Date: 10.JAN.2014 17:24:40

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## 5.1.6 Spurious Emission

### RESULT:

**Passed**

Test standard	:	FCC part 15.247(d), FCC 15.205, FCC 15.209, RSS-210 2.2, RSS-210 A8.5 and RSS-Gen 7.2.1
Basic standard Limits	:	ANSI C63.10: 2009 Radiated emissions which fall in the restricted bands, as defined in FCC 15.205(a), must comply with the radiated emission limits specified in FCC 15.209(a). Emission radiated outside the specified frequency bands must comply with the radiated emission limits specified in FCC 15.209(a) and FCC 15.249(a).
Kind of test site	:	3m Semi-Anechoic Chamber

### Test setup

Test Channel	:	Low/ Middle/ High
Operation mode	:	A, C

Remark: Testing was carried out within frequency range 30MHz to the tenth harmonic.

For details refer to Appendix D.

The Radiated Emissions testing was performed in the X, Y and Z axis orientation. The X Axis orientation is the worst-case and recorded in this test report. Due to the small size of the product and that there are no inductive components of significant size, 9kHz to 30MHz frequency range is not tested based on technical judgment.

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## 5.2 Mains Emissions

### 5.2.1 Mains Conducted Emissions

#### RESULT:

**Passed**

Test standard	:	FCC Part 15.207 FCC Part 15.107 LP0002: 2.3
Limits	:	Mains Conducted emissions as defined in above standards
Kind of test site	:	Shielded Room

#### Test setup

Test Channel	:	Middle
Operation mode	:	A

Remark: For details refer to Appendix D.

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## 6. Photographs of the Test Set-Up

Photograph 1: Set-up for Spurious Emissions (Front View)



Photograph 2: Set-up for Spurious Emissions (Back View 1)



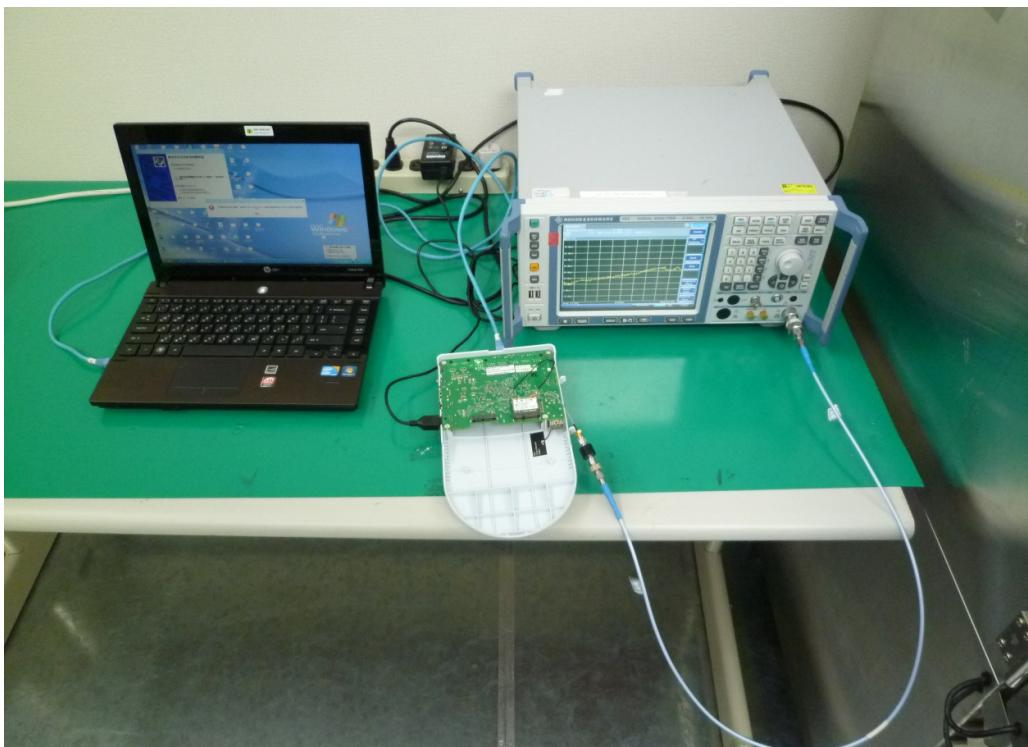
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**Photograph 3: Set-up for Spurious Emissions (Back View 2)**



**Photograph 4: Set-up for Conducted testing**



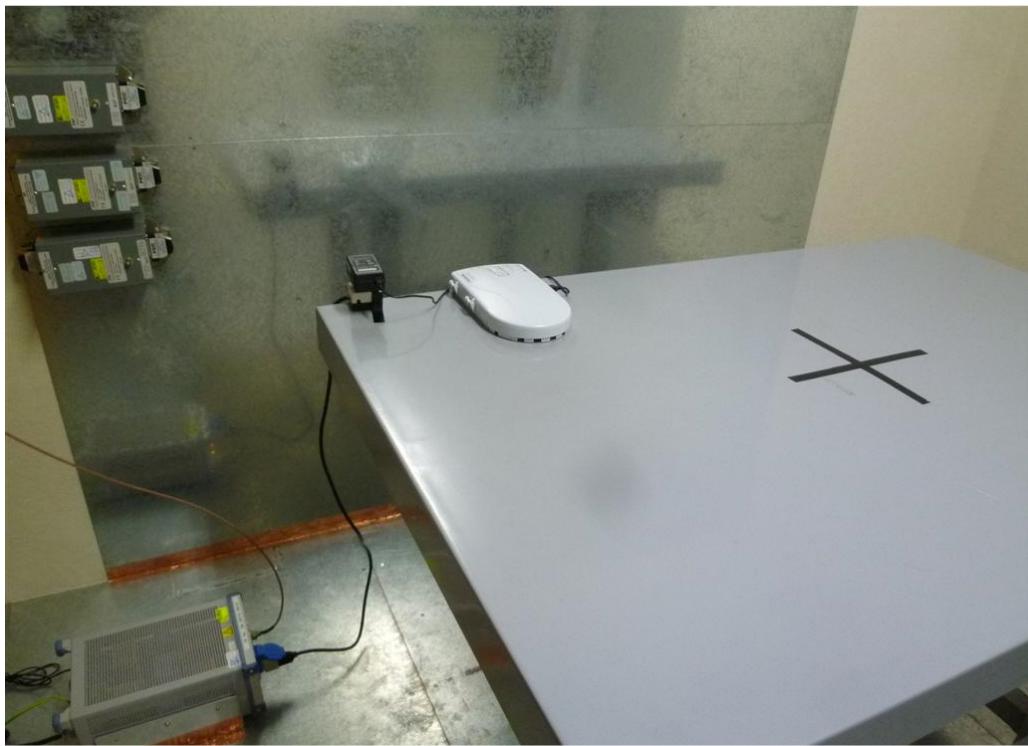
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**Photograph 5: Set-up for for Mains Conducted testing Back**



**Photograph 6: Set-up for for Mains Conducted testing Front**



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