D-PL-12111-01-01

CNAS L0447

Registration No.910917

TEST REPORT

Report No.: SRTC2013-H024-E0017

Product Name: GSM/GPRS/EDGE Digital Mobile Phone with Bluetooth and WiFi

Marketing Name: ONE TOUCH 7041X

Product Model: Yaris-5

Applicant: TCT Mobile Limited

Manufacturer: TCT Mobile Limited

Specification: FCC Part 15, Subpart C (October 9, 2012 edition)

FCC ID: RAD473

The State Radio_monitoring_center Testing Center (SRTC)

No.80 Beilishi Road Xicheng District Beijing, China

Tel: 86-10-68009202 Fax: 86-10-68009205

CONTENTS

1. General information

1.1 Notes of the test report

The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written permission of The State Radio_monitoring_center Testing Center (SRTC).
The test results relate only to individual items of the samples which have been tested.

1.2 Information about the testing laboratory

Company: The State Radio_monitoring_center Testing Center (SRTC)
Address: No.80 Beilishi Road, Xicheng District, Beijing China
City: Beijing
Country or Region: China
Contacted person: Wang Junfeng
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1.3 Applicant's details

Company: TCT Mobile Limited
Address: 5F, C building, No. 232, Liang Jing Road ZhangJiang High-Tech Park, Pudong Area
City: Shanghai
Country or Region: P.R.China
Grantee Code: RAD
Contacted person: Gong Zhizhou
Tel: +86-21-61460890
Fax: +86-21-61460602
Email: zhizhou.gong@tcl.com

1.4 Manufacturer's details

Company: TCT Mobile Limited
Address: 5F, C building, No. 232, Liang Jing Road ZhangJiang High-Tech Park, Pudong Area
City: Shanghai
Country or Region: P.R.China
Contacted person: Gong Zhizhou
Tel: +86-21-61460890
Fax: +86-21-61460602
Email: zhizhou.gong@tcl.com

1.5 Application details

Date of reception of test sample: 17th December 2013
Date of test: 29th December 2013 to 30th December 2013

1.6 Reference specification

FCC Part 15, Subpart C (October 9, 2012 edition)

1.7 Information of EUT

1.7.1 General information

Name of EUT	GSM/GPRS/EDGE Digital Mobile Phone with Bluetooth and WiFi
FCC ID	RAD473
Frequency Range	2.4GHz~2.4835GHz
Number of Channel	11
Modulation Type	DBPSK/DQPSK/CCK/BPSK/QPSK/16QAM/64QAM
Duplex Mode	TDD
Channel Spacing	5MHz
Data Rate	1Mbps/2Mbps/5.5Mbps/11Mbps/6Mbps/9Mbps/12Mbps /18Mbps/24Mbps/36Mbps/48Mbps/54Mbps/6.5Mbps /13.0Mbps/13.5Mbps/19.5Mbps/26.0Mbps/27.0Mbps /39.0Mbps/40.5Mbps/52.0Mbps/58.5Mbps/65Mbps /81.0Mbps/108.0Mbps/121.5Mbps/135.0Mbps
Antenna Type	Fixed Internal
Power Supply	Battery or Charger
Rated Power Supply Voltage	3.8V
HW Version	PIO
SW Version	AGJ

1.7.2 EUT details

Product Name	Marketing Name	Product Model	IMEI
GSM/GPRS/EDGE Digital Mobile Phone with Bluetooth and WiFi	ONE TOUCH 7041X	Yaris-5	863859027899553

1.7.3 Auxiliary equipment details

Equipment	Charger
Manufacturer	Ten Pao Industrial Co., Ltd.
Model Number	S005UU0500100
Input Voltage	100V-240V a.c.
Output Voltage	5.0V d.c.
Frequency	50/60Hz

Equipment	Charger
Manufacturer	HUIZHOU BYD ELECTRONIC CO., LTD.
Model Number	TUUS050100-A00
Input Voltage	100V-240V a.c.
Output Voltage	5.0V d.c.
Frequency	50/60Hz

Equipment	Battery
Manufacturer	BYD COMPANY LIMITED
Model Number	TLi020F1
Capacity	2000mAh
Rated Voltage	4.35V d.c.

Equipment	Battery
Manufacturer	SCUD (FUJIAN) Electronics Co., Ltd.
Model Number	TLi019B2
Capacity	1900mAh
Rated Voltage	4.35V d.c.

Equipment	Data Cable
Manufacturer	Shenzhen Juwei Electronics Co., Ltd.
Model Number	CDA3122002C1

Equipment	Data Cable
Manufacturer	Huizhou Shenghua Industry Co., Ltd.
Model Number	CDA3122002C2

Equipment	Data Cable
Manufacturer	Shenzhen Juwei Electronics Co., Ltd.
Model Number	CDA3122005C1

Equipment	Data Cable
Manufacturer	Huizhou Shenghua Industry Co., Ltd.
Model Number	CDA3122005C2

Note: As the information described above, there are two different models of charger manufactured by two different companies, two different models of battery manufactured by two different companies and four different models of data cable manufactured by two different companies.

The relevant tests have been performed in order to verify in which combination case (EUT exercised by only one model of charger, one model of battery and one model of data cable) the EUT would have the worst features. So all the tests shown in this test report are performed when the EUT exercised by the charger TUUS050100-A00, the battery TLi020F1 and the data cable CDA3122002C1.

2. Test information

2.1 Summary of the test results

No.	Test case	FCC reference	Verdict
1	Peak Power Output	15.247(b)(3)	Pass
2	Occupied Bandwidth	15.247(a)(2)	Pass
3	Transmitter Power Spectral Density	15.247(e)	Pass
4	Spurious RF Conducted Emissions	15.247(d)	Pass
5	Spurious Radiated Emissions	15.247(d)/15.35(b)/15.209	Pass
6	Band Edge Compliance	15.247(d)	Pass

This Test Report Is Issued by: Mr. Song Qizhu Director of the test lab	Checked by: Mr. Wang Junfeng Deputy director of the test lab
Tested by: Mr. Li Bin Test engineer	Issued date: **2014.01.15**

2.2 Test result

2.2.1 Peak Power Output

2.2.1.1 Ambient condition

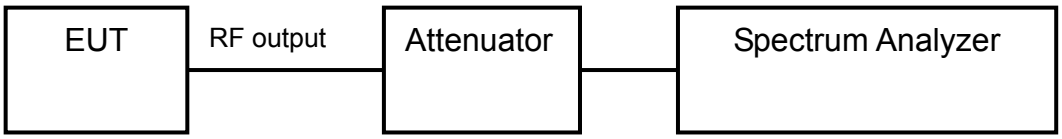
Temperature	Relative humidity	Pressure
22°C	40%	101.1kPa

2.2.1.2 Test Description

The measurement is made according to ANSI C63.10-2009.

WIFI is operating in 100% Duty Factor mode.

The resolution bandwidth for measuring the output power was 20 MHz.



2.2.1.3 Test limit

FCC Part15.247(b)(3):
For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.

Used conversion factor: Limit (dBm) = 10 log (Limit (W)/1mW)
==> Maximum Output Power: 30 dBm

2.2.1.4 Test result:

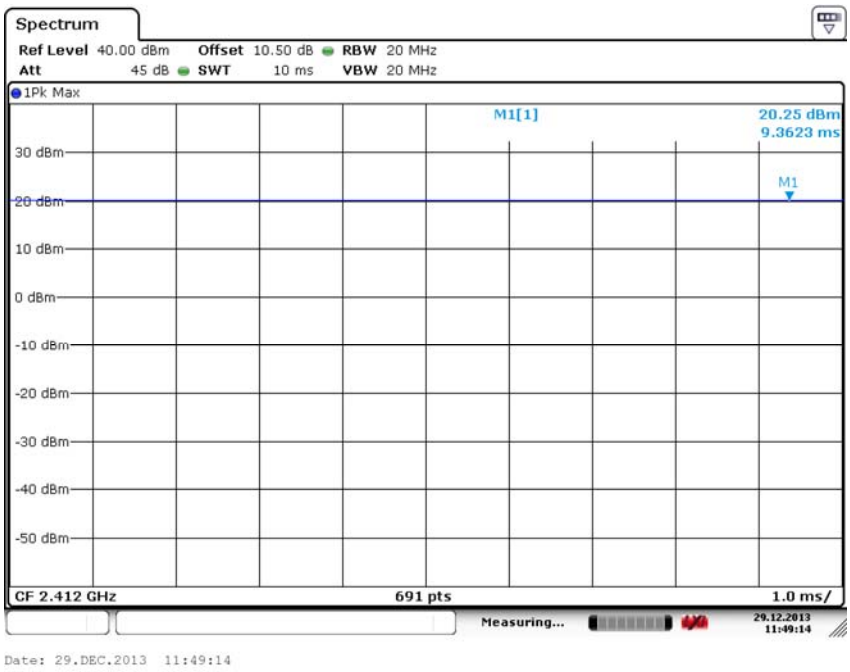
Modulation type		Average power output (dBm)				
		2412MHz (Ch1)	2437MHz (Ch6)	2462MHz (Ch11)	2467MHz (Ch12)	2472MHz (Ch13)
11b	1 Mbps	16.32	16.60	16.60	10.00	8.77
	2 Mbps	16.29	16.29	16.51	10.01	8.75
	5.5 Mbps	16.27	16.53	16.59	10.04	8.58
	11 Mbps	15.73	15.94	15.96	9.47	8.37
11g	6 Mbps	13.05	14.56	13.43	12.71	8.55
	9 Mbps	12.92	14.15	13.29	12.57	8.38
	12 Mbps	12.47	14.01	12.92	12.09	8.21
	18 Mbps	12.24	13.68	12.61	11.73	7.65
	24 Mbps	11.98	13.08	12.35	11.42	7.28
	36 Mbps	11.33	12.55	11.69	10.77	6.78
	48 Mbps	10.64	11.98	10.98	10.10	6.31
	54 Mbps	10.48	11.76	10.85	9.90	6.13
11n HT20	6.5 Mbps	13.08	14.40	13.50	12.62	8.59
	13 Mbps	12.76	14.15	13.23	12.35	8.12
	19.5 Mbps	12.21	13.62	12.62	11.76	7.74
	26 Mbps	11.85	13.16	12.29	11.39	7.32
	39 Mbps	11.34	12.64	11.75	10.84	6.81
	52 Mbps	10.74	12.22	11.24	10.40	6.34
	58.5 Mbps	10.53	11.85	10.92	11.02	6.21
	65 Mbps	10.34	11.67	10.75	9.87	5.75

Modulation type		Average power output (dBm)		
		2422MHz (Ch3)	2437MHz (Ch6)	2462MHz (Ch11)
11n HT40	13.5 Mbps	10.52	13.55	13.31
	27 Mbps	9.58	12.61	12.64
	40.5 Mbps	9.05	12.16	11.93
	54 Mbps	8.64	11.71	11.52
	81 Mbps	7.78	11.16	10.87
	108 Mbps	7.32	10.44	10.43
	121.5 Mbps	7.12	10.33	10.22
	135 Mbps	7.02	10.15	10.09

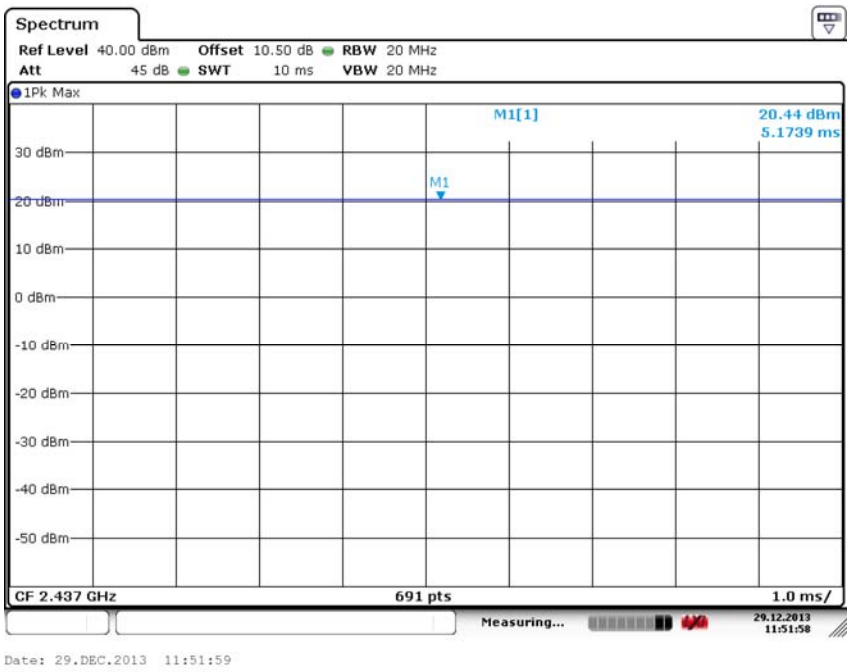
Modulation type		Peak power output (dBm)				
		2412MHz (Ch1)	2437MHz (Ch6)	2462MHz (Ch11)	2467MHz (Ch12)	2472MHz (Ch13)
11b	1 Mbps	20.25	20.44	20.53	13.93	12.24
	2 Mbps	20.18	20.32	20.40	13.90	12.20
	5.5 Mbps	20.10	20.35	20.42	13.87	12.20
	11 Mbps	20.15	20.35	20.38	13.89	12.18
11g	6 Mbps	23.46	23.83	23.84	23.12	20.89
	9 Mbps	23.43	23.81	23.80	23.08	20.62
	12 Mbps	23.33	23.80	23.78	22.95	20.67
	18 Mbps	23.44	23.82	23.81	22.93	20.53
	24 Mbps	23.41	23.77	23.78	22.85	20.58
	36 Mbps	23.45	23.82	23.81	22.89	20.60
	48 Mbps	23.42	23.79	23.76	22.88	20.52
	54 Mbps	23.40	23.75	23.77	22.82	20.48
11n HT20	6.5 Mbps	23.49	23.88	23.91	23.03	20.60
	13 Mbps	23.41	23.83	23.88	23.00	20.59
	19.5 Mbps	23.44	23.84	23.85	22.99	20.57
	26 Mbps	23.43	23.82	23.87	22.97	20.58
	39 Mbps	23.48	23.85	23.89	22.98	20.55
	52 Mbps	23.35	23.80	23.85	23.01	20.52
	58.5 Mbps	23.48	23.86	23.87	23.97	20.58
	65 Mbps	23.48	23.85	23.89	23.01	20.58

Modulation type		Peak power output (dBm)		
		2422MHz (Ch3)	2437MHz (Ch6)	2462MHz (Ch11)
11n HT40	13.5 Mbps	23.72	24.69	24.76
	27 Mbps	23.10	24.01	24.38
	40.5 Mbps	23.21	24.12	24.44
	54 Mbps	23.14	23.97	24.52
	81 Mbps	22.73	23.78	24.30
	108 Mbps	22.75	23.82	24.32
	121.5 Mbps	23.04	23.75	24.27
	135 Mbps	23.28	23.79	24.20

* The data rate 1Mbps, 36Mbps, 6.5Mbps, 27Mbps are selected as worse condition, and the following cases are performed with this condition.



Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11b



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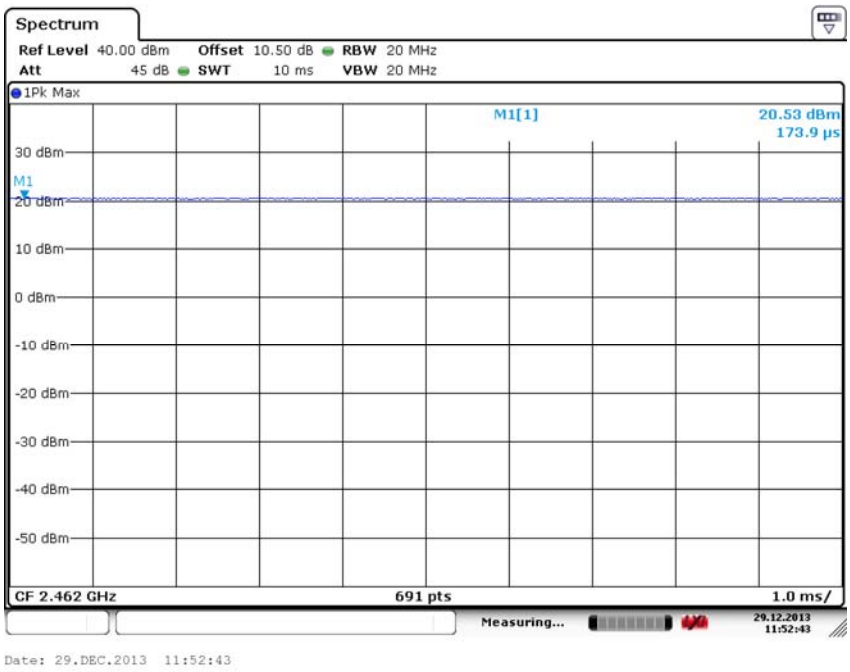
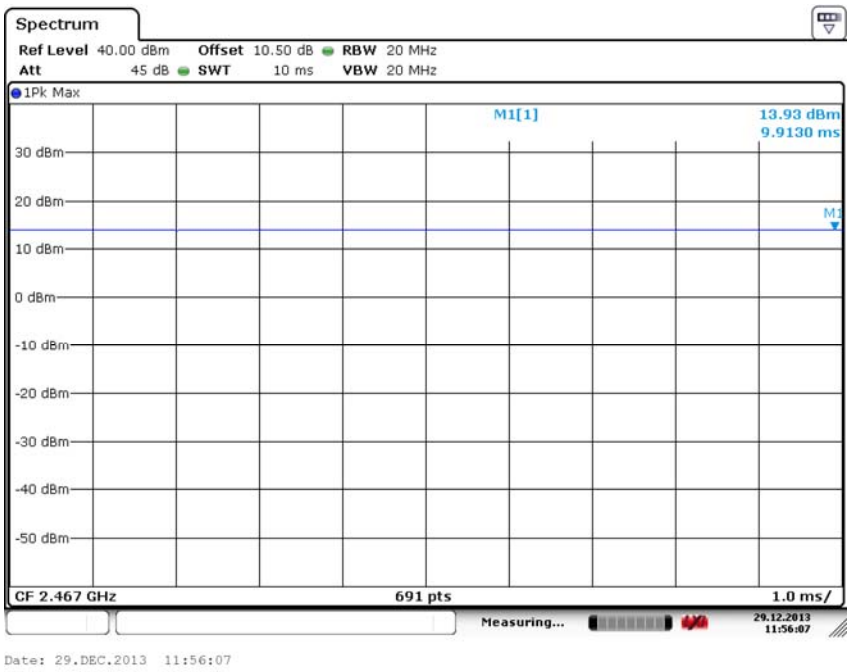
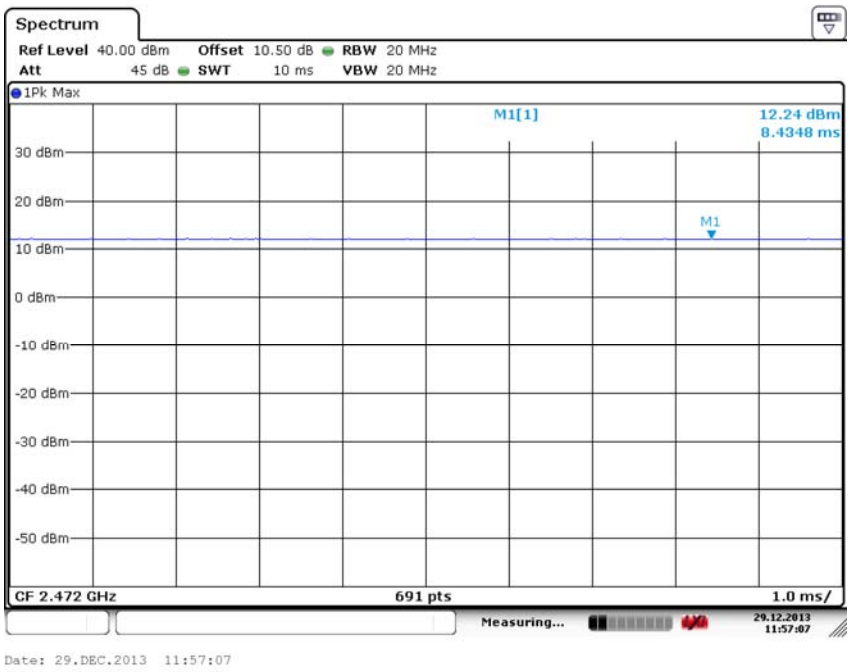
Channel No.:6
Test Mode: 802.11b



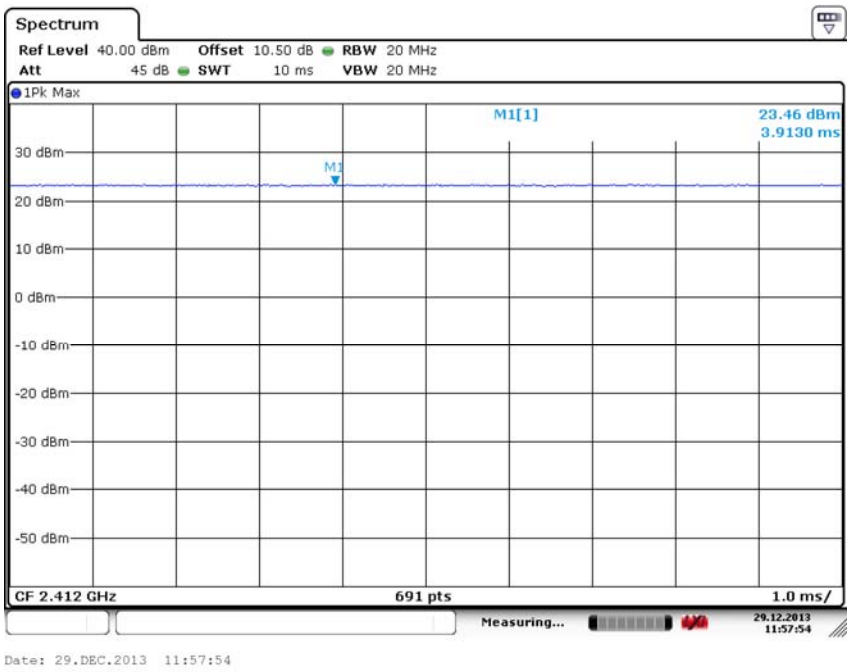
Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11b



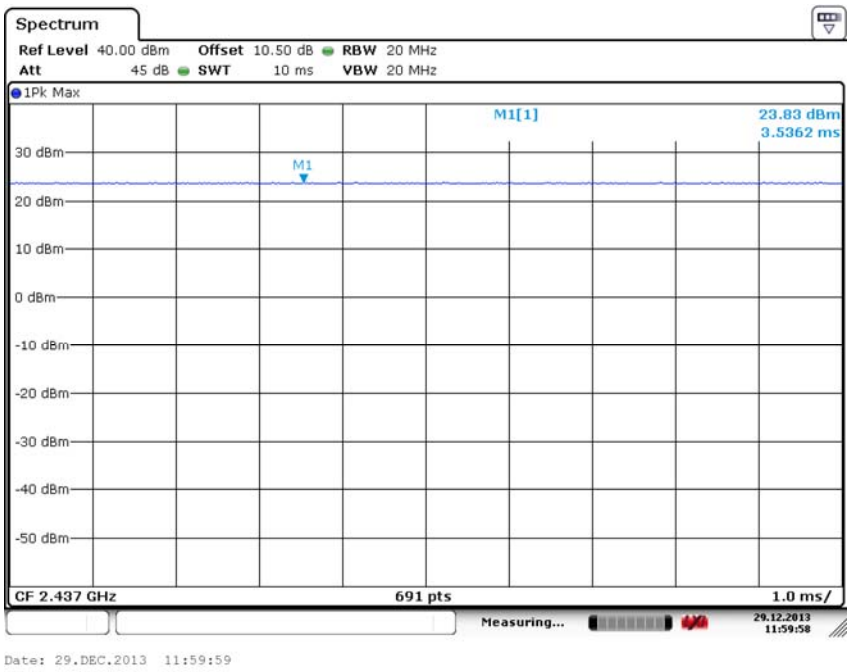
Carrier frequency (MHz): 2467
Channel No.:12
Test Mode: 802.11b



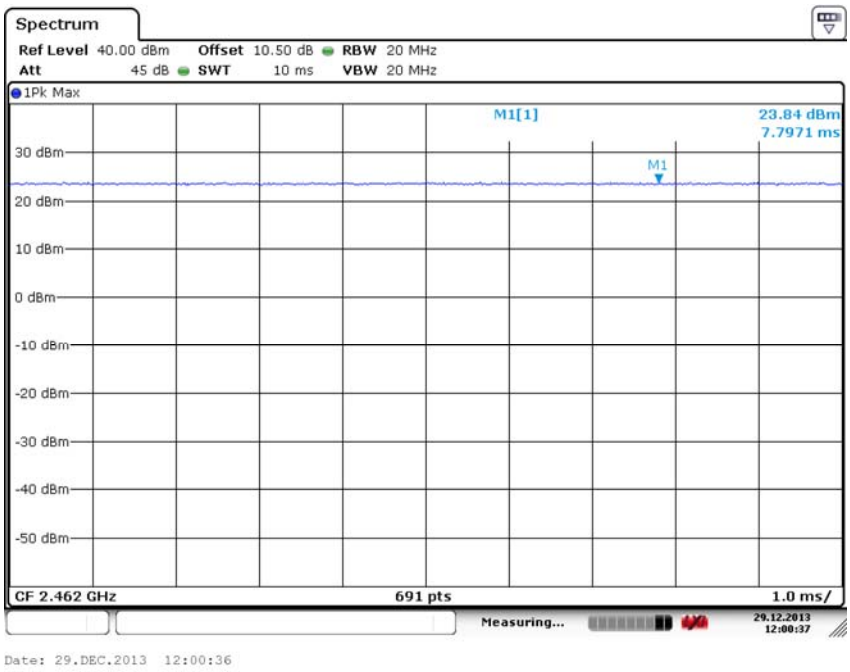
Carrier frequency (MHz): 2472
Channel No.:13
Test Mode: 802.11b



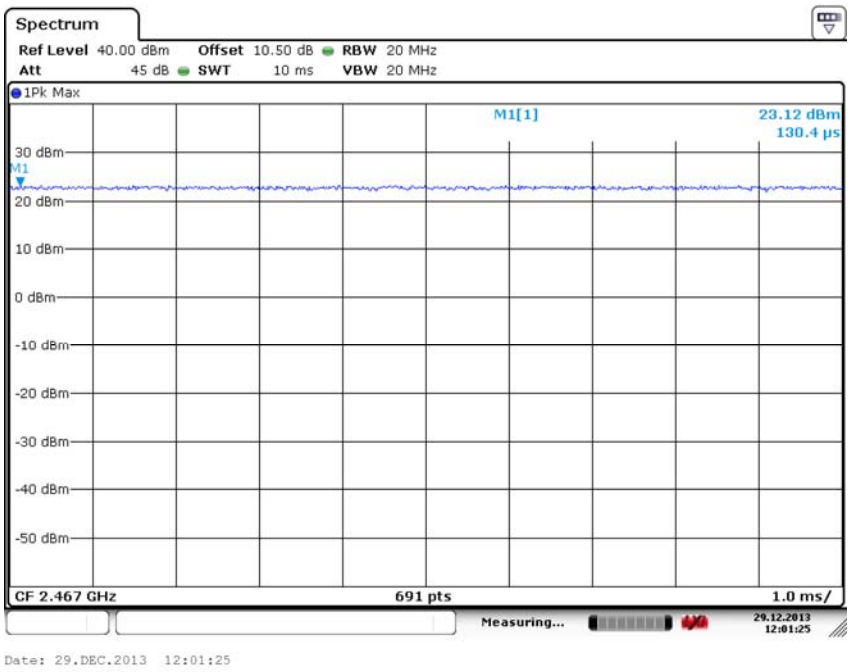
Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11g



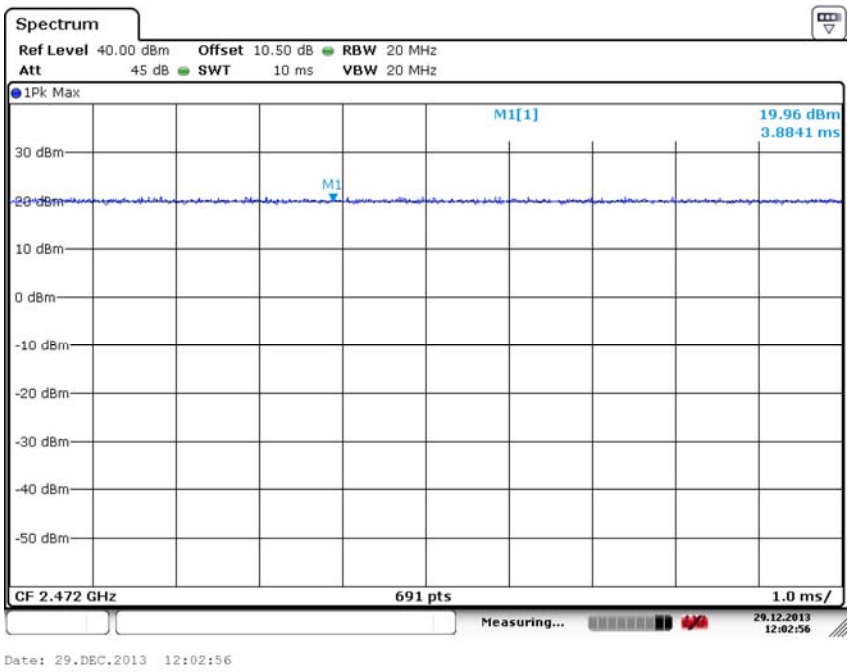
Carrier frequency (MHz): 2437
Channel No.:6
Test Mode: 802.11g



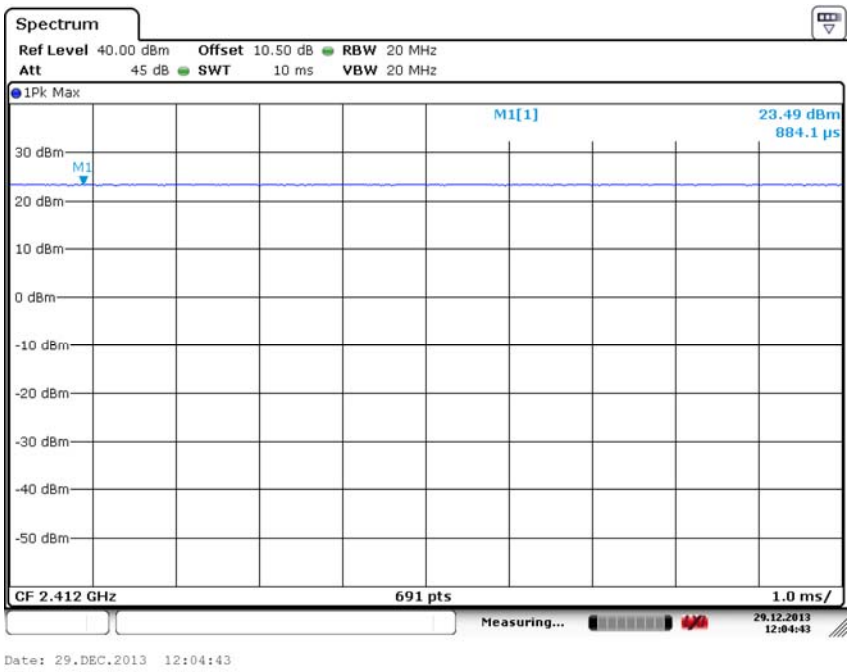
Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11g



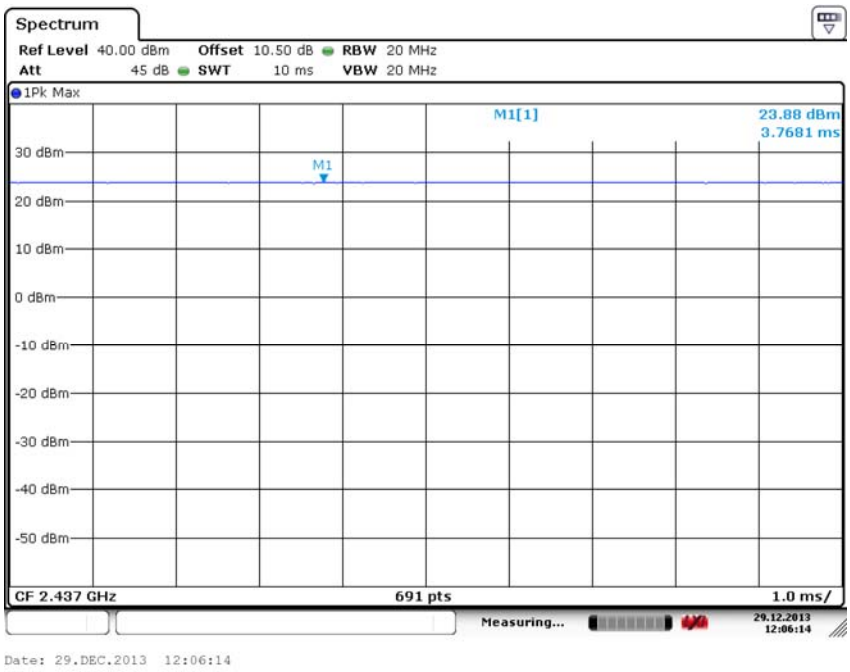
Carrier frequency (MHz): 2467
Channel No.:12
Test Mode: 802.11g



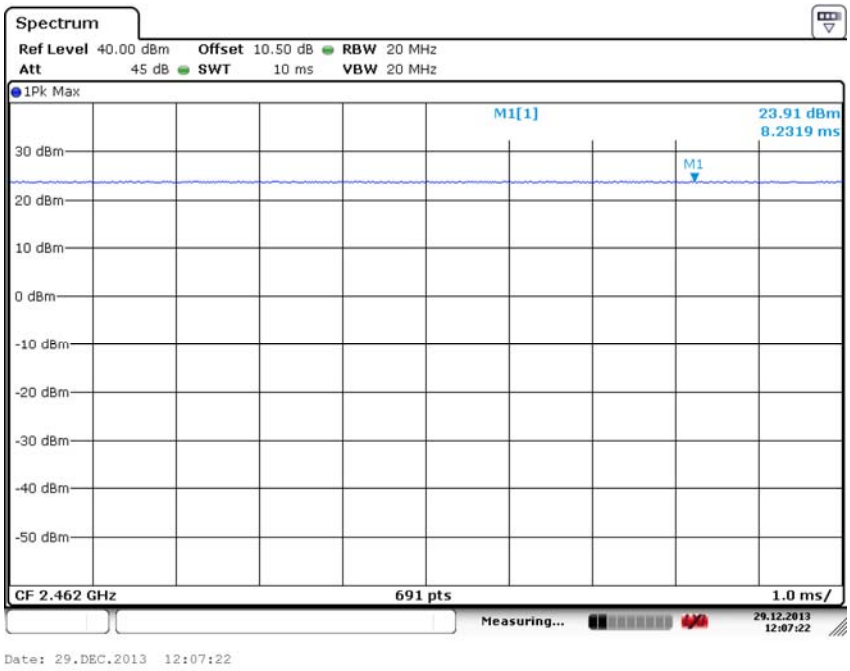
Carrier frequency (MHz): 2472
Channel No.:13
Test Mode: 802.11g



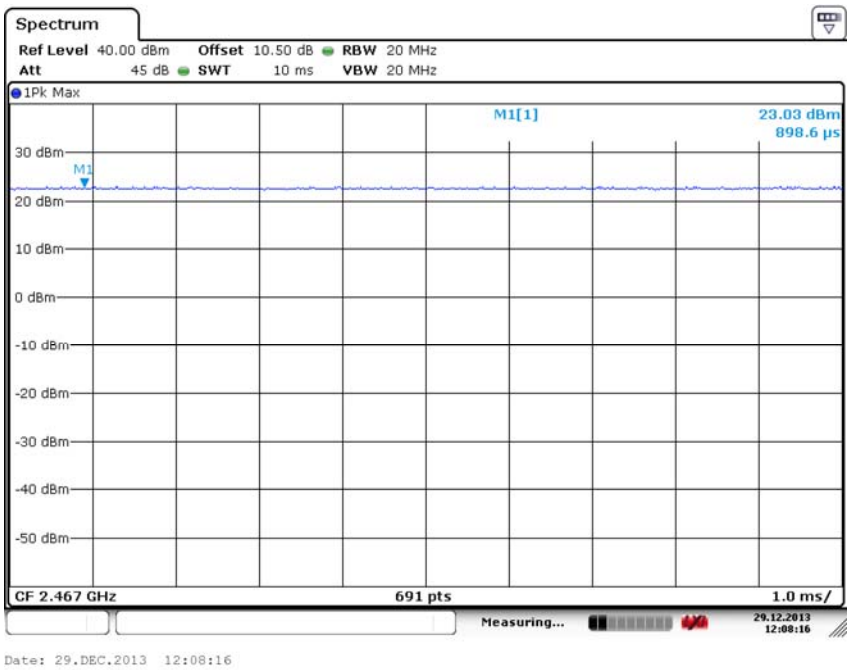
Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11n(HT20)



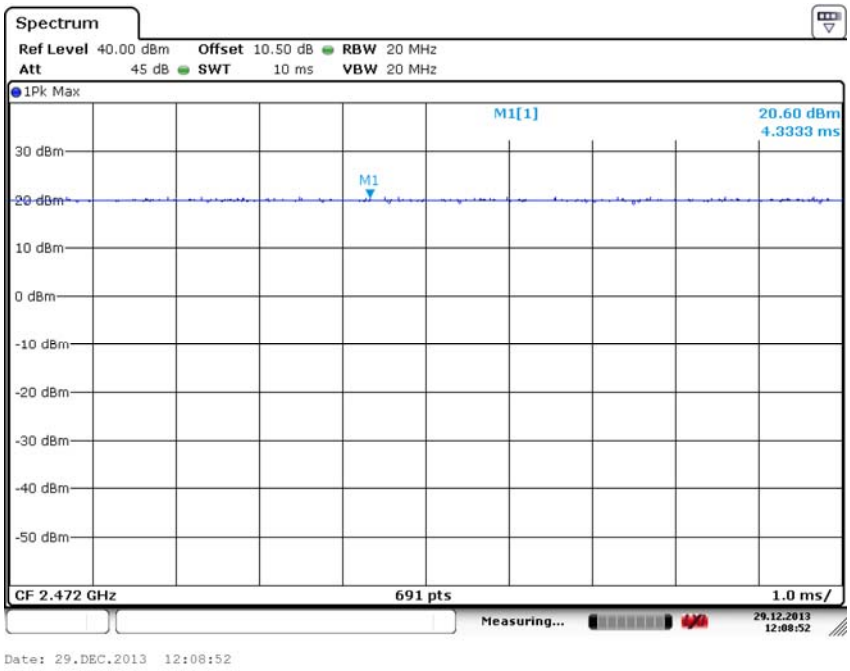
Carrier frequency (MHz): 2437
Channel No.:6
Test Mode: 802.11n(HT20)



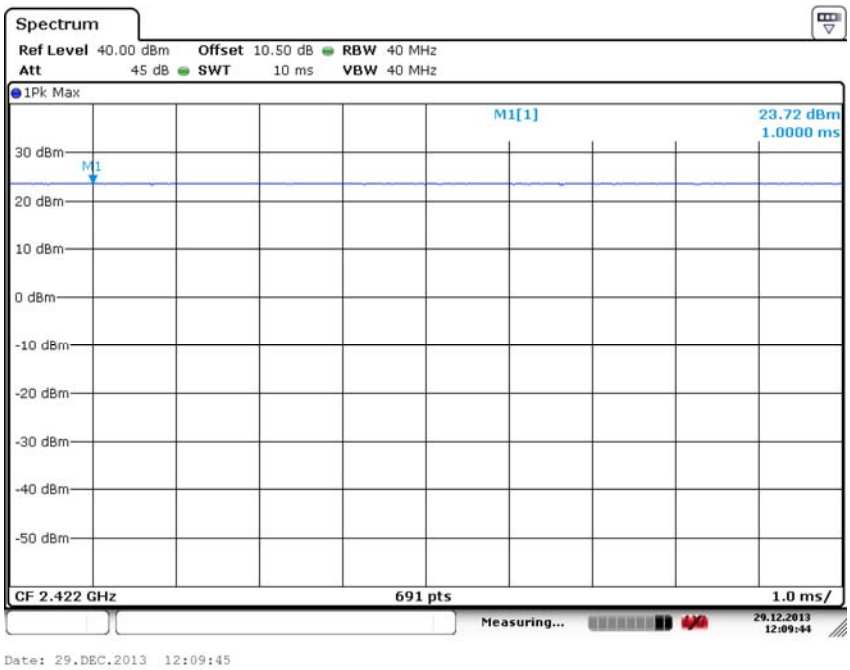
Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11n(HT20)



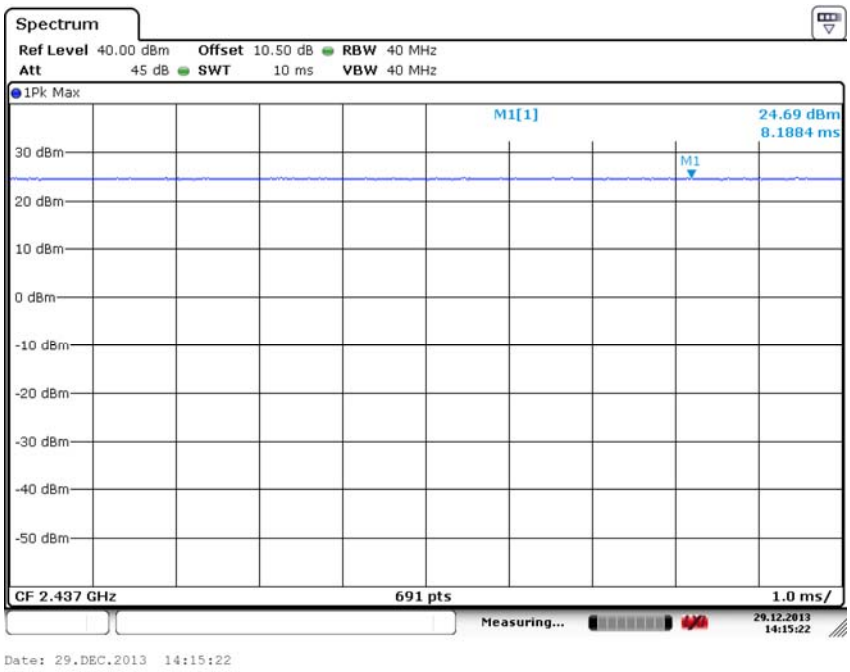
Carrier frequency (MHz): 2467
Channel No.:12
Test Mode: 802.11n(HT20)



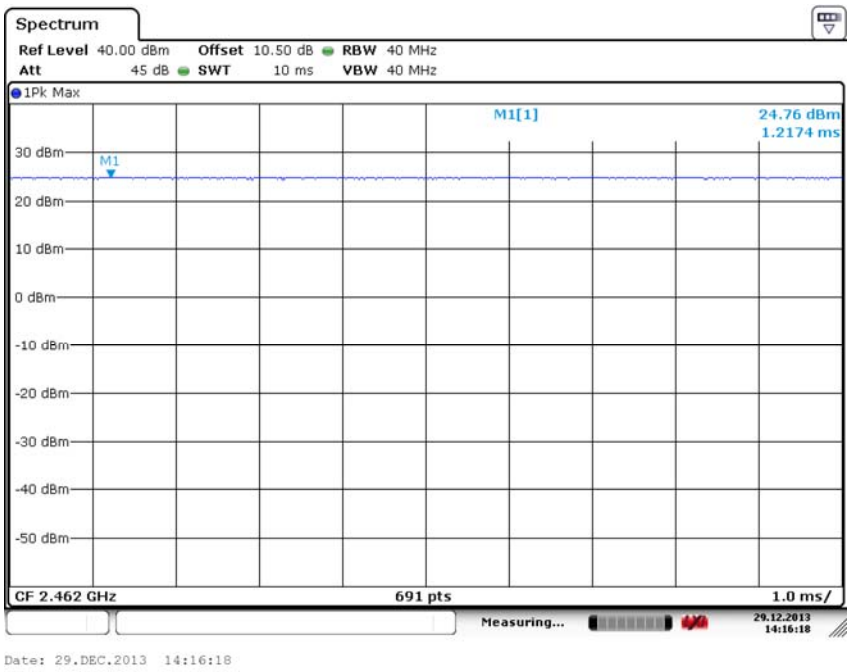
Carrier frequency (MHz): 2472
Channel No.:13
Test Mode: 802.11n(HT20)



Carrier frequency (MHz): 2412
Channel No.:3
Test Mode: 802.11n(HT40)



Carrier frequency (MHz): 2437
Channel No.:6
Test Mode: 802.11n(HT40)



Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11n(HT40)

2.2.2 Occupied Bandwidth

2.2.2.1 Ambient condition

Temperature	Relative humidity	Pressure
22°C	40%	101.1kPa

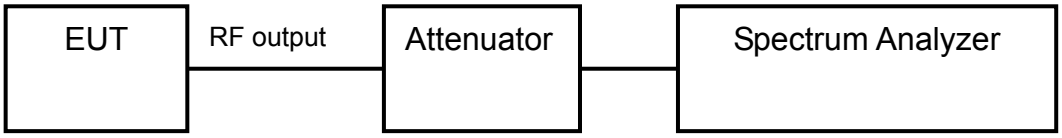
2.2.2.2 Test Description

The measurement is made according to ANSI C63.10-2009.

The Equipment Under Test (EUT) was setup in a shielded room to perform the occupied bandwidth measurements.

The reference level is the level of the highest amplitude signal observed from the transmitter at either the fundamental frequency or first-order modulation products in all typical modes of operation, including the unmodulated carrier, even if atypical.

The results recorded were measured with the modulation which produces the worst-case (widest) occupied bandwidth.



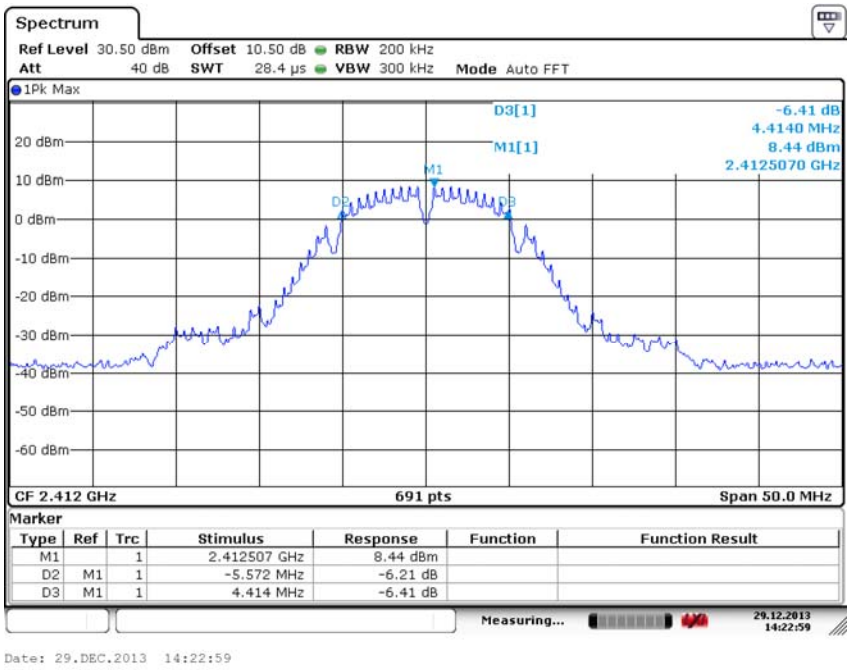
2.2.2.3 Test limit

FCC Part15.247(a)(2)
Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500kHz.

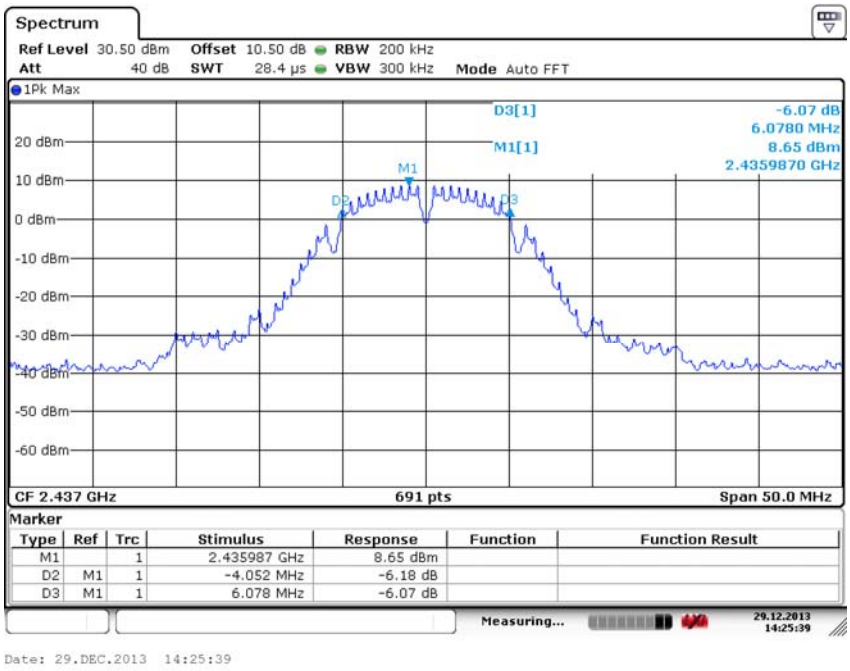
2.2.2.4 Test result

Test Mode: 802.11b

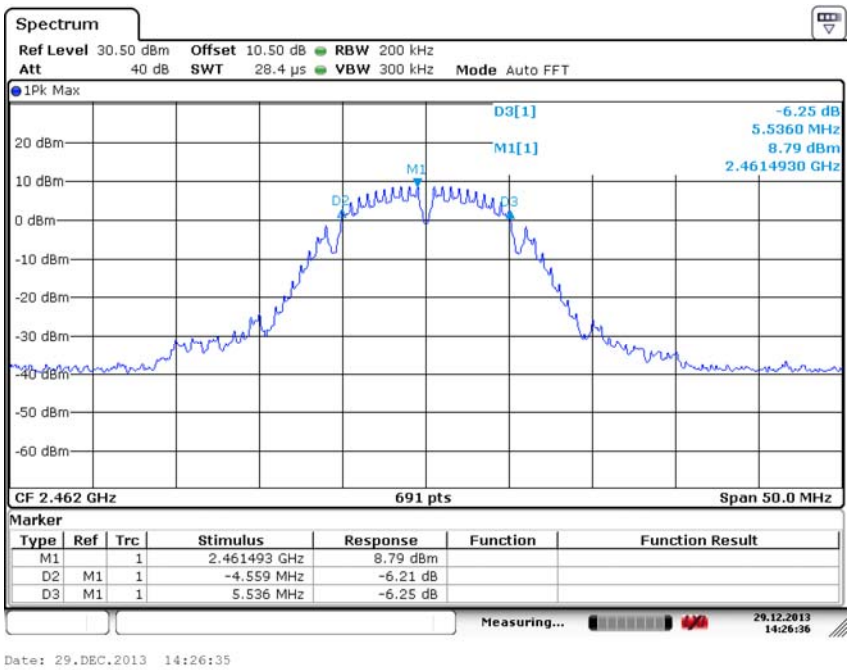
Carrier frequency (MHz)	Channel No.	6 dB bandwidth(MHz)
2412	1	9.99
2437	6	10.13
2462	11	10.10
2467	12	10.31
2472	13	10.31



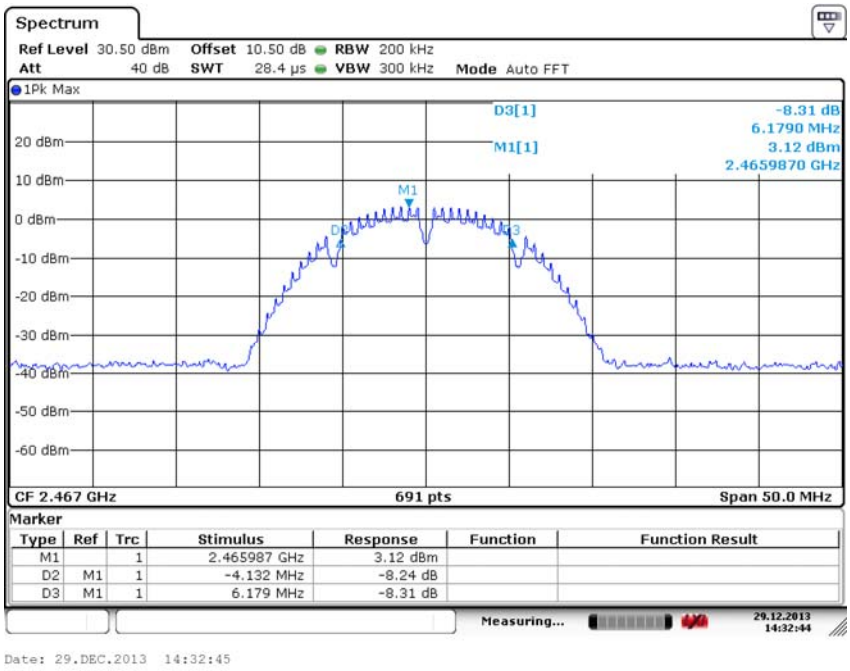
Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11b



Carrier frequency (MHz): 2437
Channel No.:6
Test Mode: 802.11b

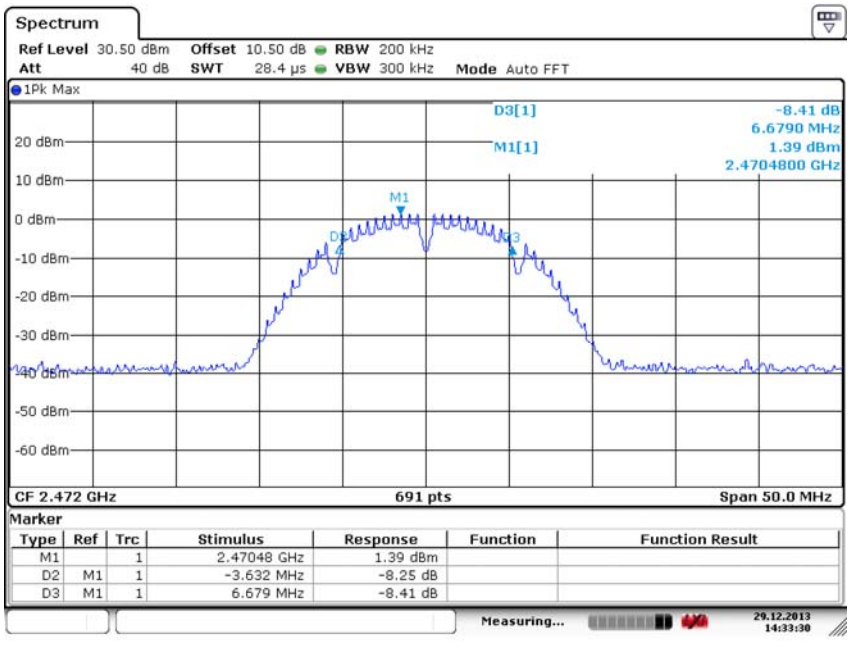


Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11b



Date: 29.DEC.2013 14:32:45

Carrier frequency (MHz): 2467
Channel No.:12
Test Mode: 802.11b

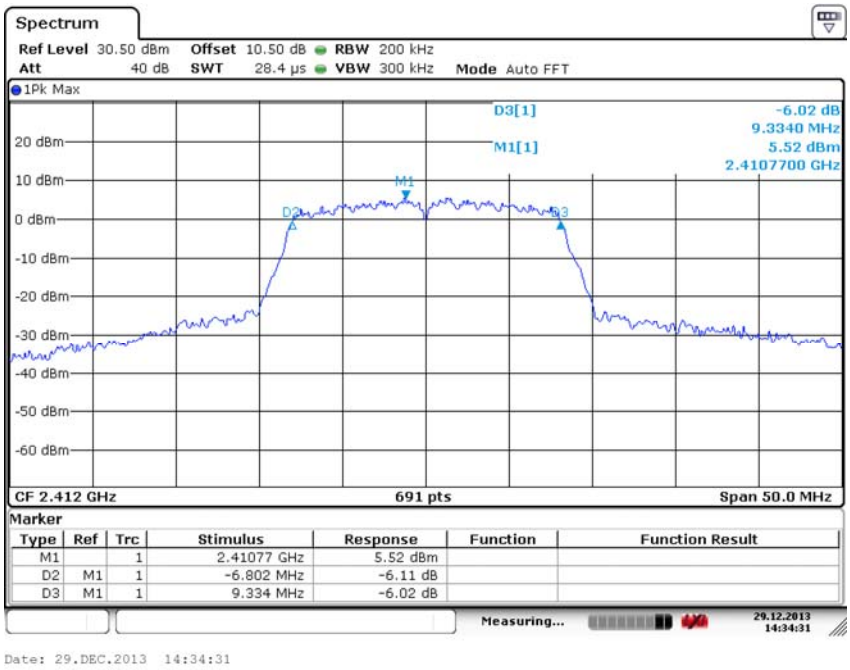


Date: 29.DEC.2013 14:33:30

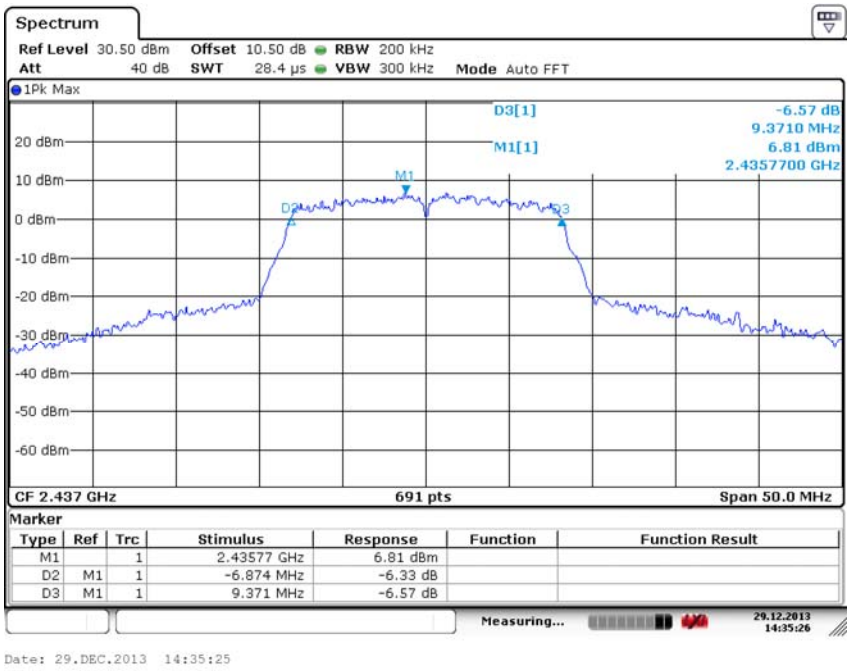
Carrier frequency (MHz): 2472
Channel No.:13
Test Mode: 802.11b

Test Mode: 802.11g

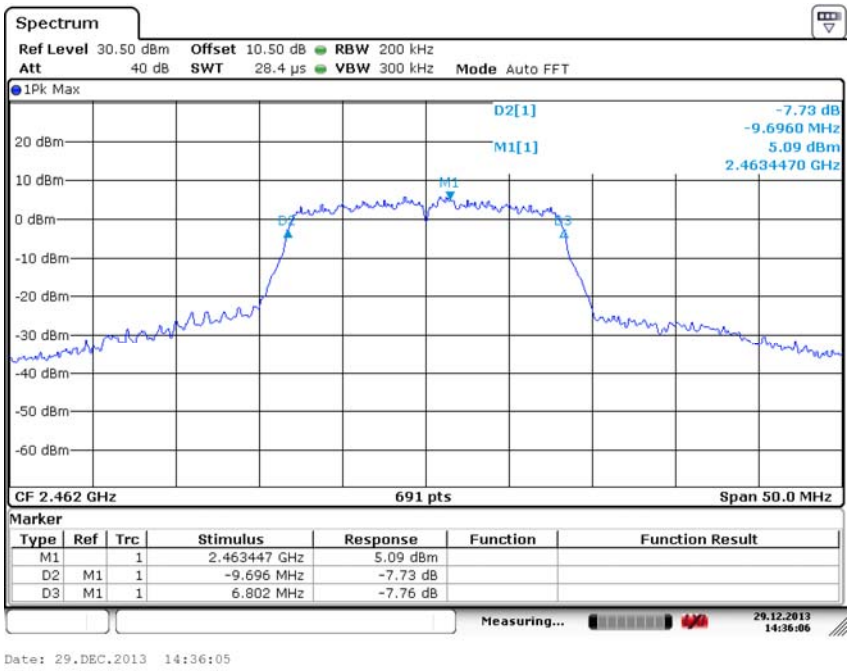
Carrier frequency (MHz)	Channel No.	6 dB bandwidth(MHz)
2412	1	16.14
2437	6	16.25
2462	11	16.50
2467	12	16.64
2472	13	16.64



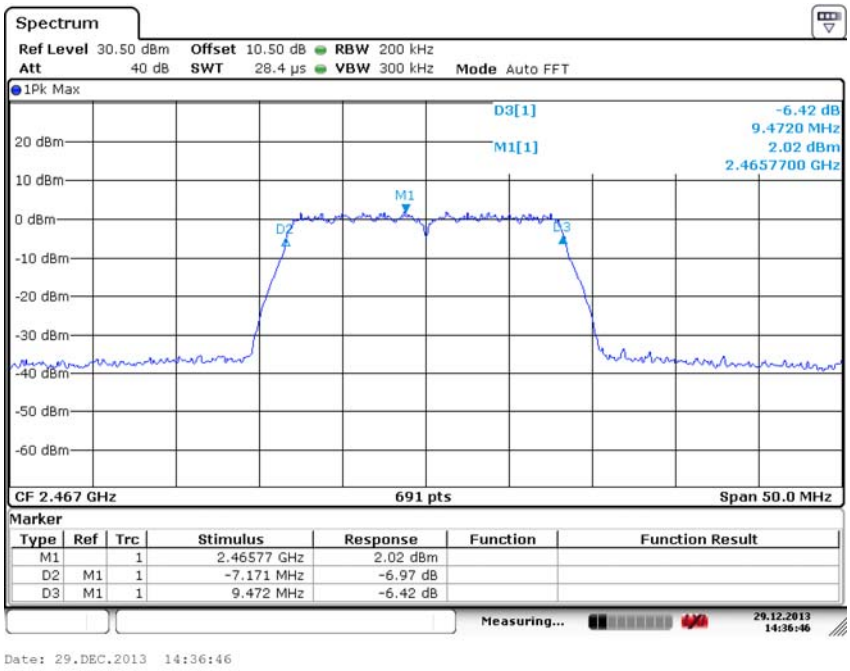
Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11g



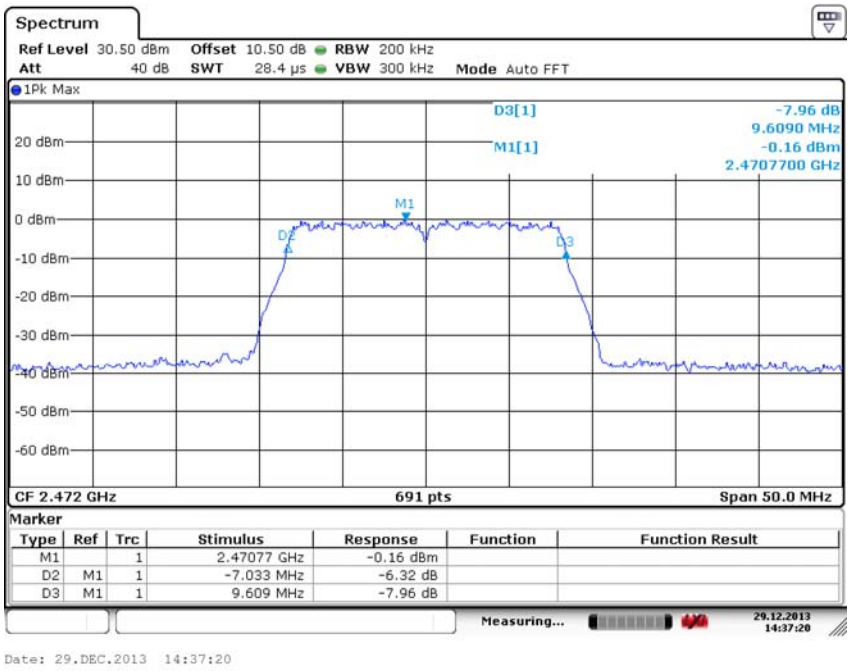
Carrier frequency (MHz): 2437
Channel No.:6
Test Mode: 802.11g



Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11g



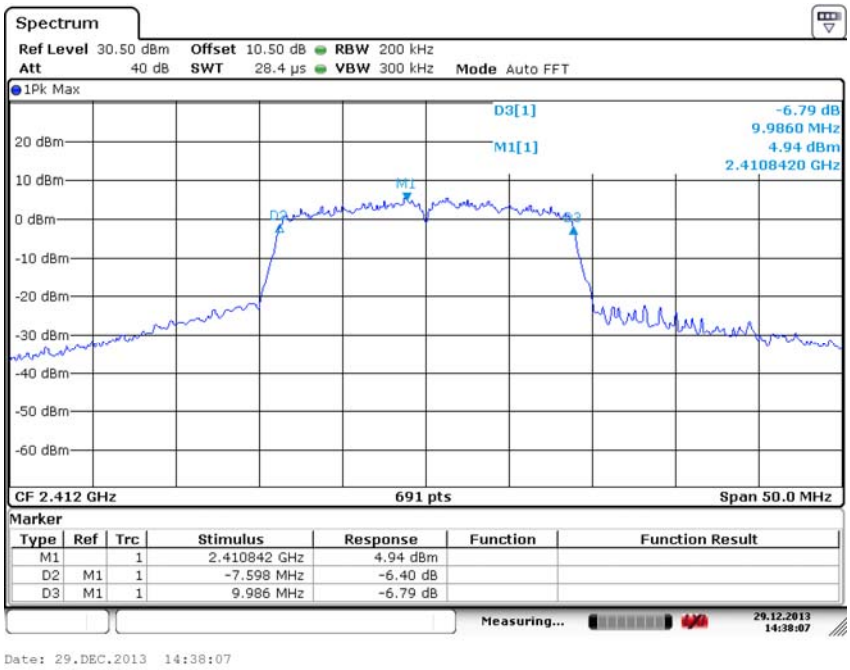
Carrier frequency (MHz): 2467
Channel No.:12
Test Mode: 802.11g



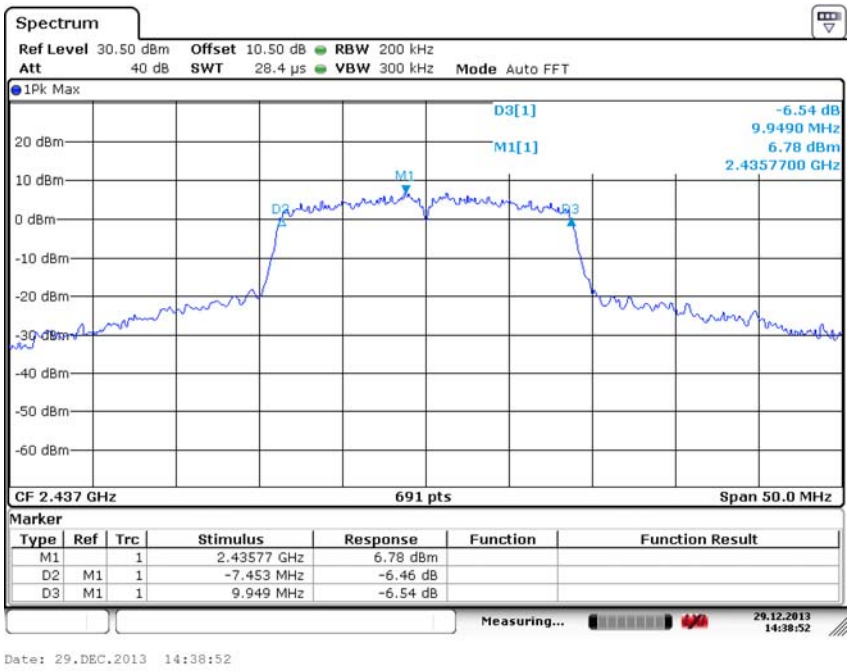
Carrier frequency (MHz): 2472
Channel No.:13
Test Mode: 802.11g

Test Mode: 802.11n(HT20)

Carrier frequency (MHz)	Channel No.	6 dB bandwidth(MHz)
2412	1	17.58
2437	6	17.40
2462	11	17.44
2467	12	17.87
2472	13	17.80

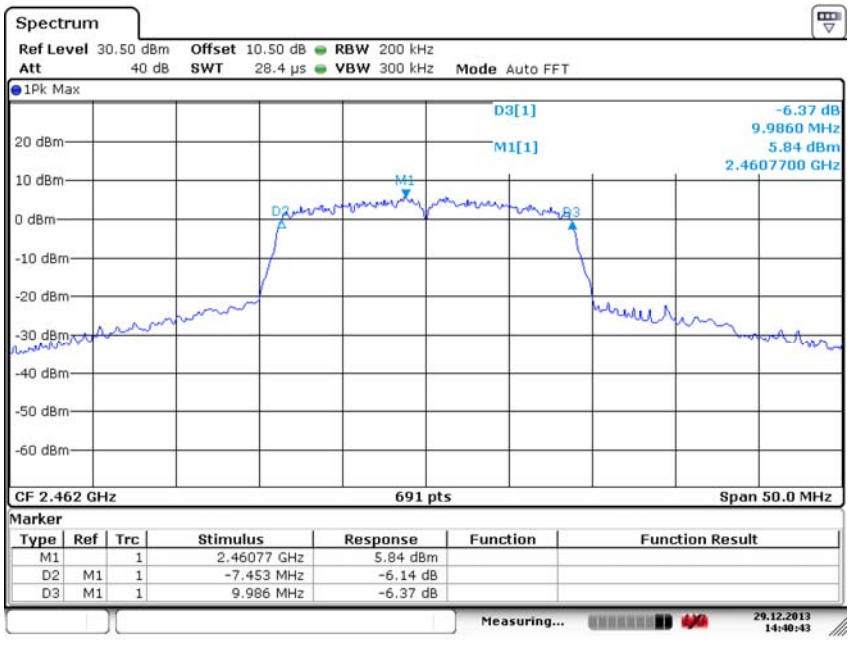


Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11n(HT20)



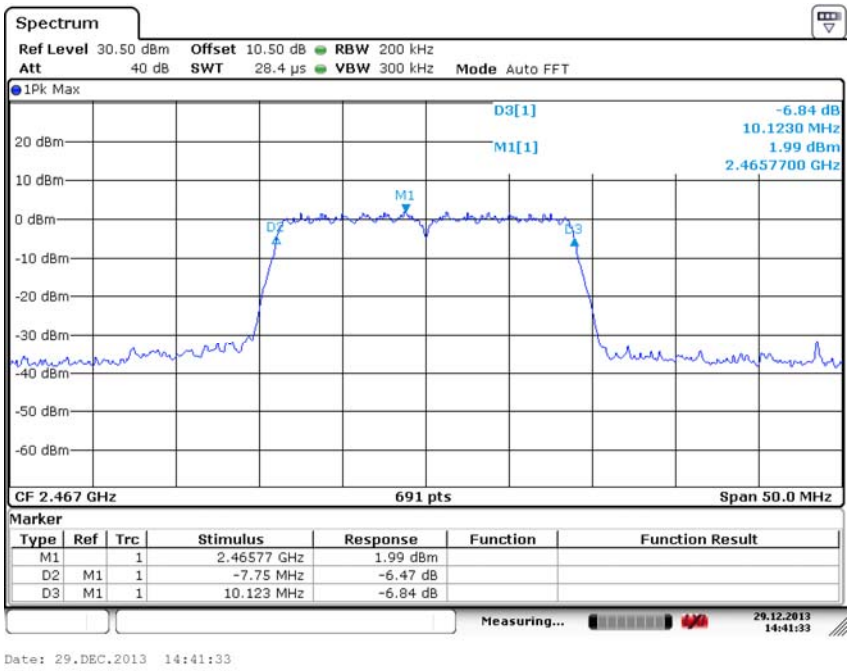
Date: 29.DEC.2013 14:38:52

Carrier frequency (MHz): 2437
Channel No.:6
Test Mode: 802.11n(HT20)

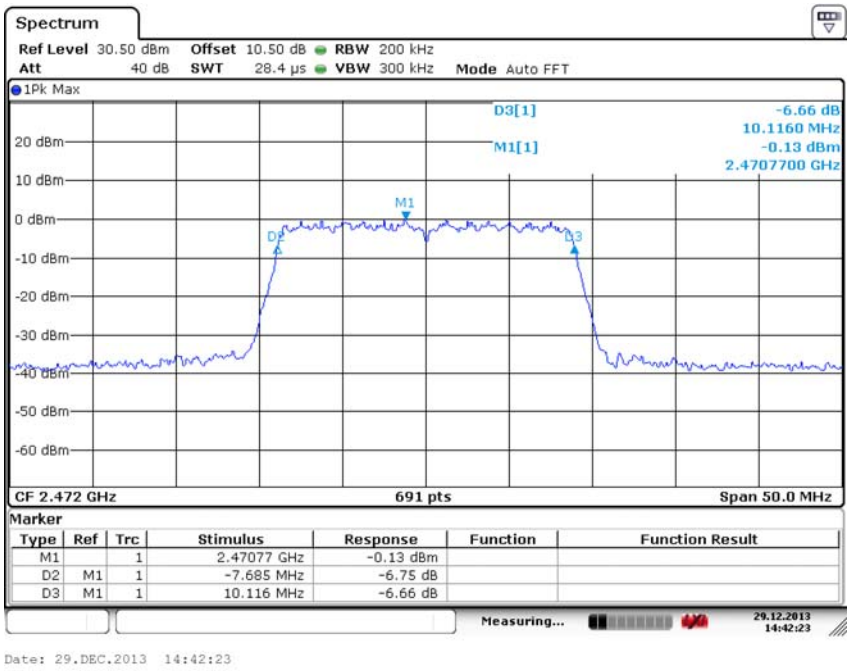


Date: 29.DEC.2013 14:40:43

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11n(HT20)



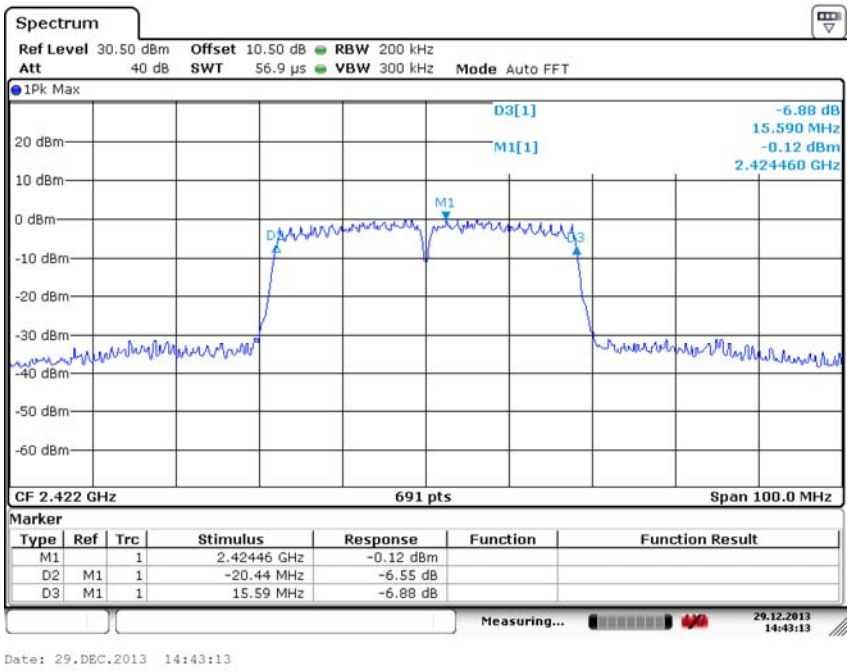
Carrier frequency (MHz): 2467
Channel No.:12
Test Mode: 802.11n(HT20)



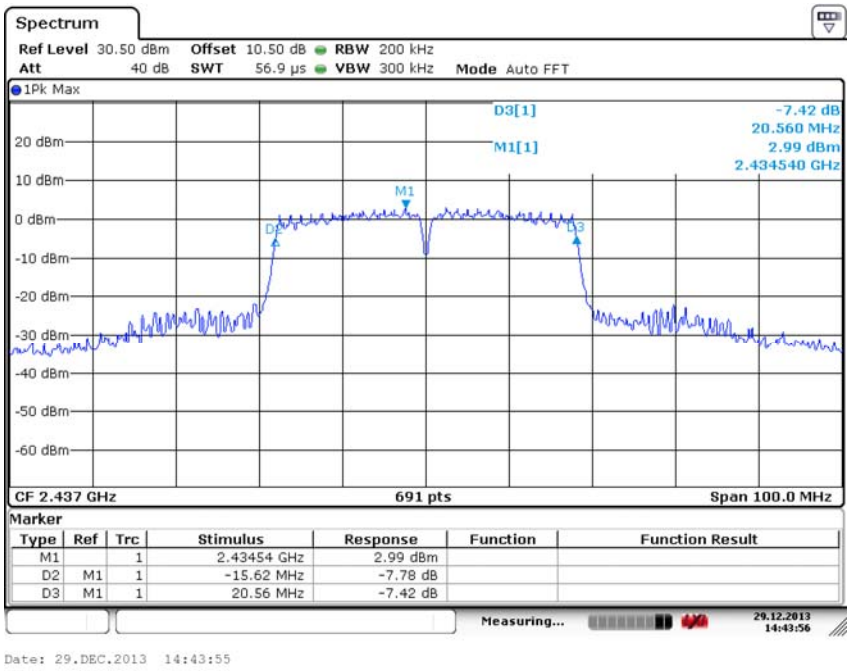
Carrier frequency (MHz): 2472
Channel No.:13
Test Mode: 802.11n(HT20)

Test Mode: 802.11n(HT40)

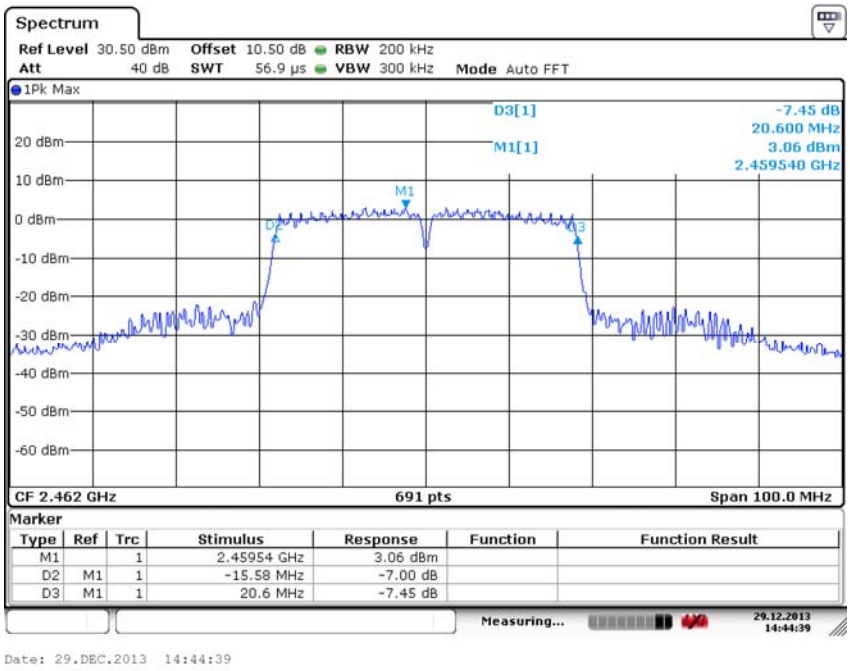
Carrier frequency (MHz)	Channel No.	6 dB bandwidth(MHz)
2422	3	36.03
2437	6	36.18
2462	11	36.18



Carrier frequency (MHz): 2422
Channel No.:3
Test Mode: 802.11n(HT40)



Carrier frequency (MHz): 2437
Channel No.:6
Test Mode: 802.11n(HT40)



Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11n(HT40)

2.2.3 Transmitter Power Spectral Density

2.2.3.1 Ambient condition

Temperature	Relative humidity	Pressure
22°C	40%	101.1kPa

2.2.3.2 Test Description

The measurement is made according to ANSI C63.10-2009.

Connect the antenna port to be measured through the 20 dB pad to the spectrum analyzer input. Configure the spectrum analyzer as described below. All losses between the EUT output and the spectrum analyzer, such as attenuator value, cable losses and other offsets shall be recorded.

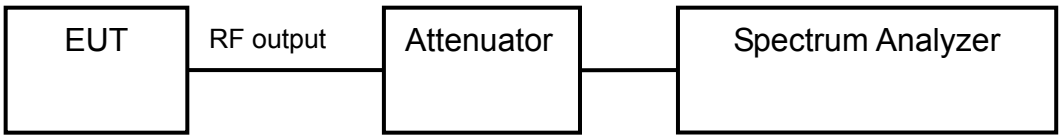
a) Set CENTER FREQUENCY = Frequency from Power Spectral Density Test Matrix
b) Set SPAN = 20 MHz (For devices with a nominal 40 MHz BW, 50 MHz span will be needed)
c) Set REFERENCE LEVEL = 20 dBm
d) Set ATTENUATION = 0 dB (add internal attenuation, if necessary)
e) Set SWEEP TIME = Coupled
f) Set RBW = 3 kHz
g) Set VBW = 10 kHz
h) Set DETECTOR = Peak
i) Set MKR = Center Frequency
j) Set TRACE = CLEAR WRITE

Place the radio in continuous transmit mode. Set the TRACE to MAX HOLD, and after the trace stabilizes, the TRACE to VIEW. Set the marker on the peak of the signal and then adjust the center frequency of the spectrum analyzer to the marker frequency.

After viewing the EUT waveform on the spectrum analyzer, perform the following spectrum analyzer functions to capture the trace:

--- Set SPAN = 300 kHz
--- Set SWEEP TIME = 100 s
--- Set TRACE = MAX HOLD
--- Set MKR = PEAK SEARCH

Record the marker level for the particular mode. Repeat these steps for other device modes.



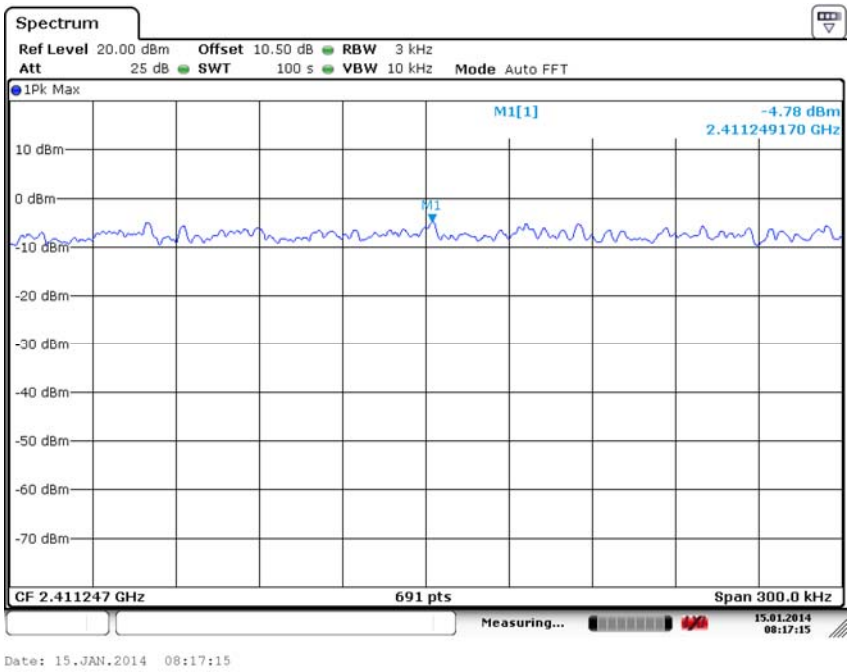
2.2.3.3 Test limit

FCC Par15.247(e)
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

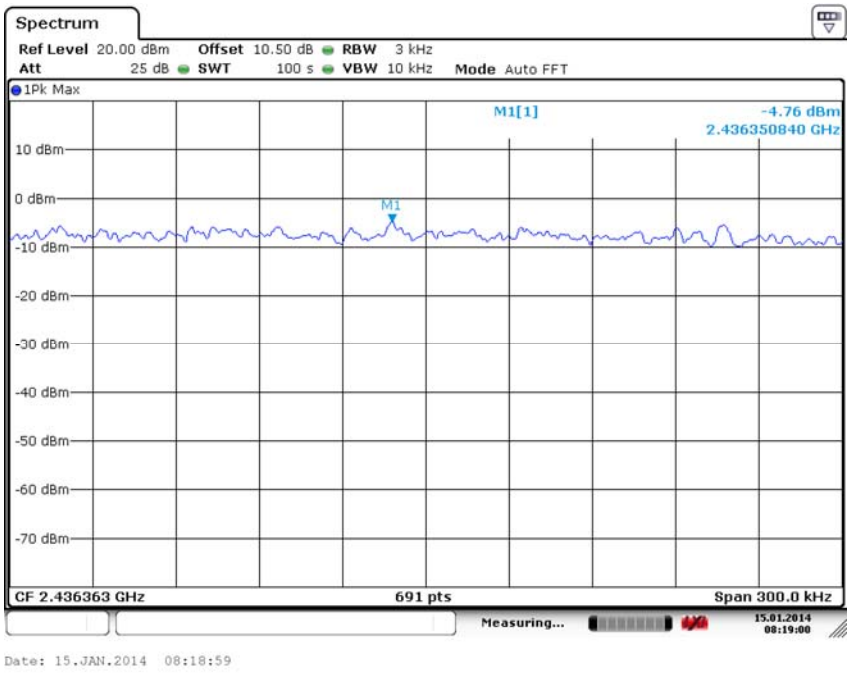
2.2.3.4 Test result:

Test Mode: 802.11b

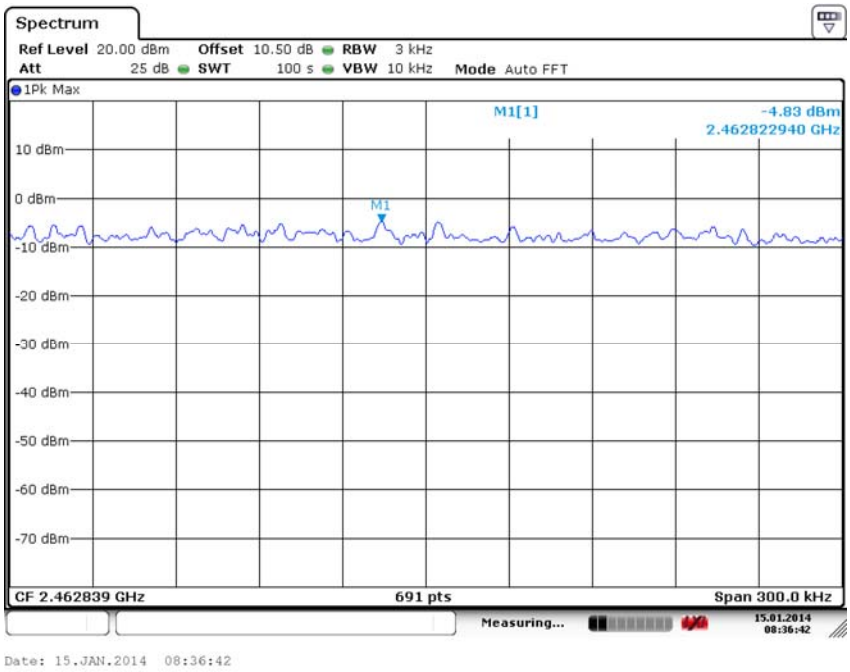
Carrier frequency (MHz)	Channel No	Power Density
2412	1	-4.78
2437	6	-4.76
2462	11	-4.83
2467	12	-9.86
2472	13	-13.79



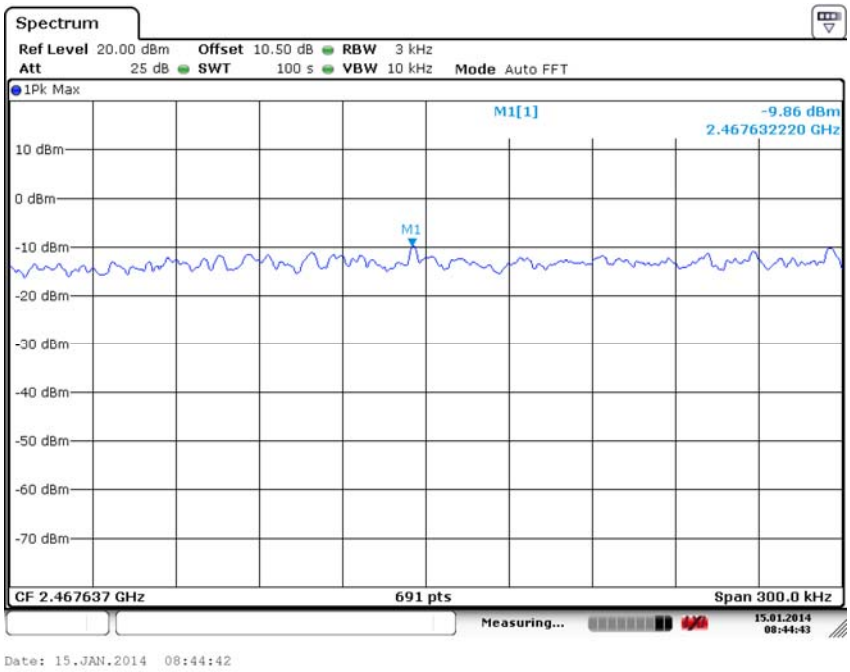
Carrier frequency (MHz): 2412
Channel No.1
Test Mode: 802.11b



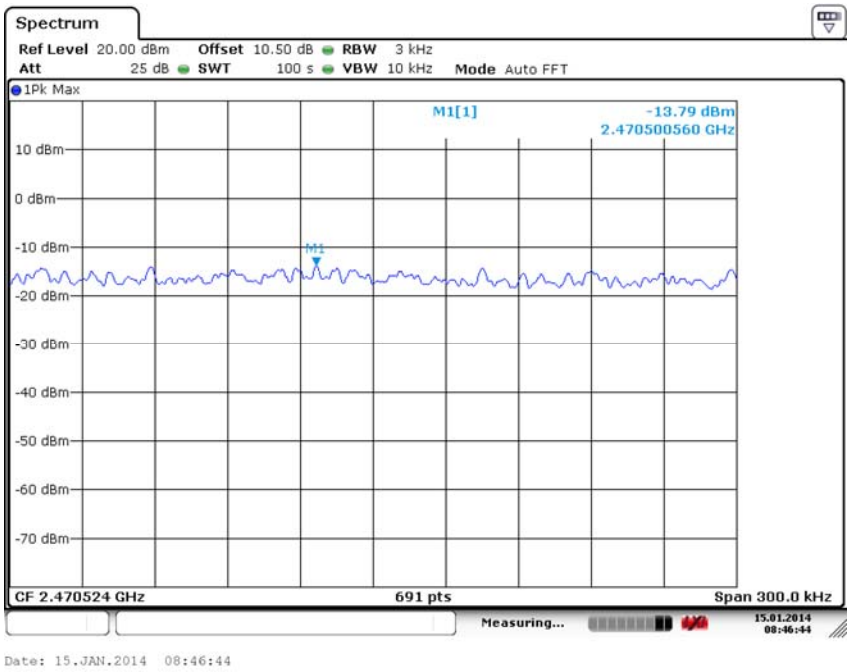
Carrier frequency (MHz): 2437
Channel No.6
Test Mode: 802.11b



Carrier frequency (MHz): 2462
Channel No.11
Test Mode: 802.11b



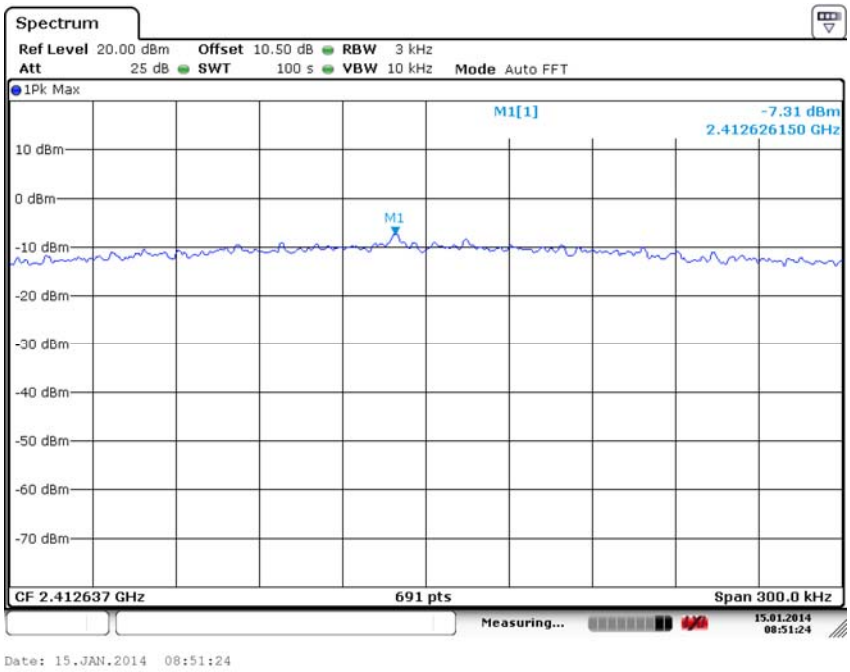
Carrier frequency (MHz): 2467
Channel No.12
Test Mode: 802.11b



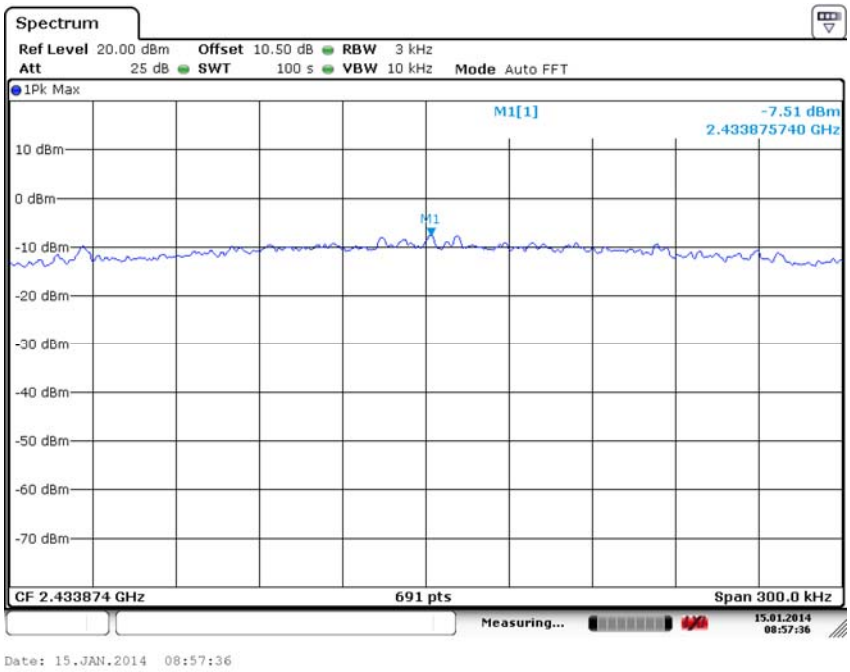
Carrier frequency (MHz): 2472
Channel No.13
Test Mode: 802.11b

Test Mode: 802.11g

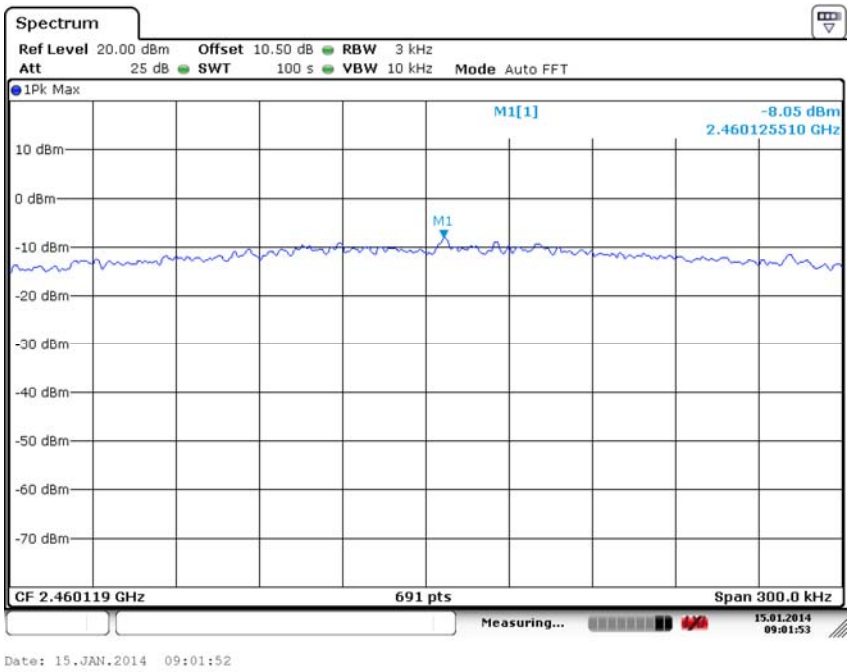
Carrier frequency (MHz)	Channel No	Power Density
2412	1	-7.31
2442	6	-7.51
2472	11	-8.05
2467	12	-11.52
2472	13	-13.97



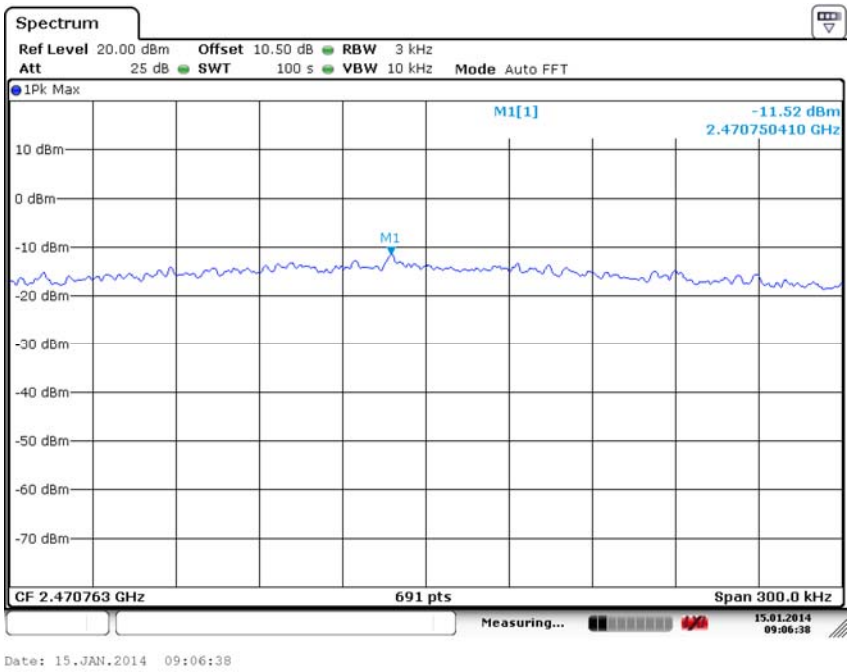
Carrier frequency (MHz): 2412
Channel No.1
Test Mode: 802.11g



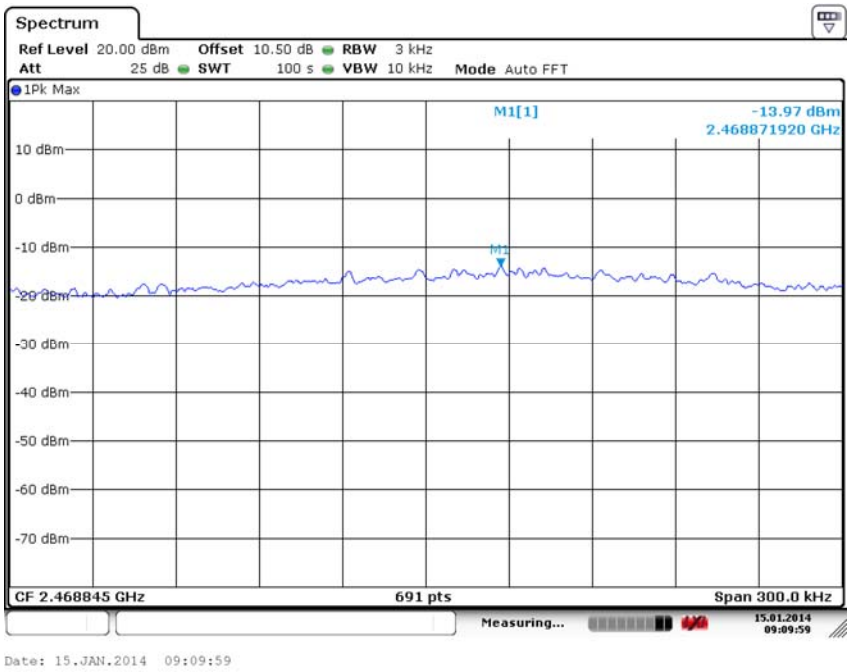
Carrier frequency (MHz): 2437
Channel No.6
Test Mode: 802.11g



Carrier frequency (MHz): 2462
Channel No.11
Test Mode: 802.11g



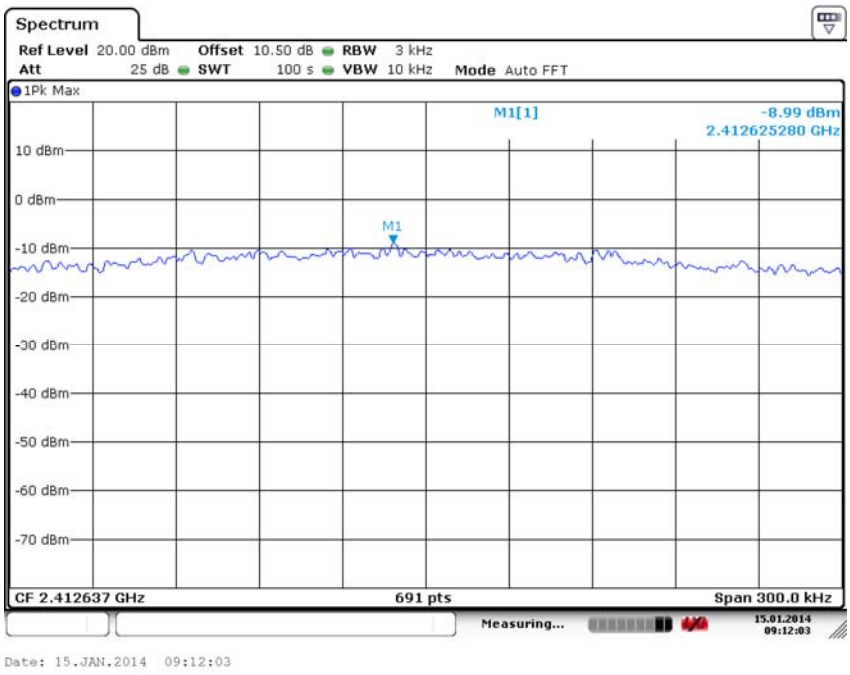
Carrier frequency (MHz): 2467
Channel No.12
Test Mode: 802.11g



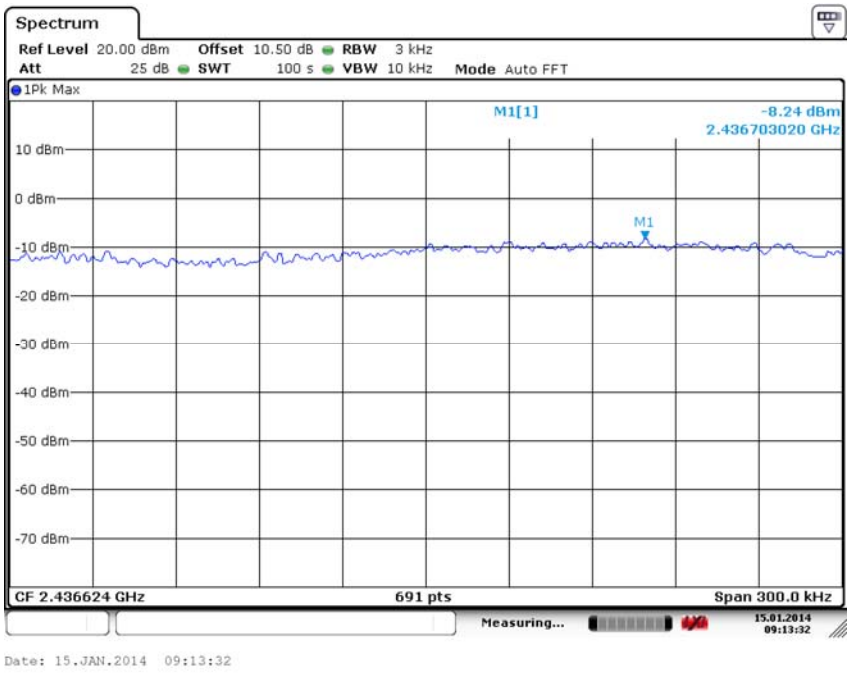
Carrier frequency (MHz): 2472
Channel No.13
Test Mode: 802.11g

Test Mode: 802.11n(HT20)

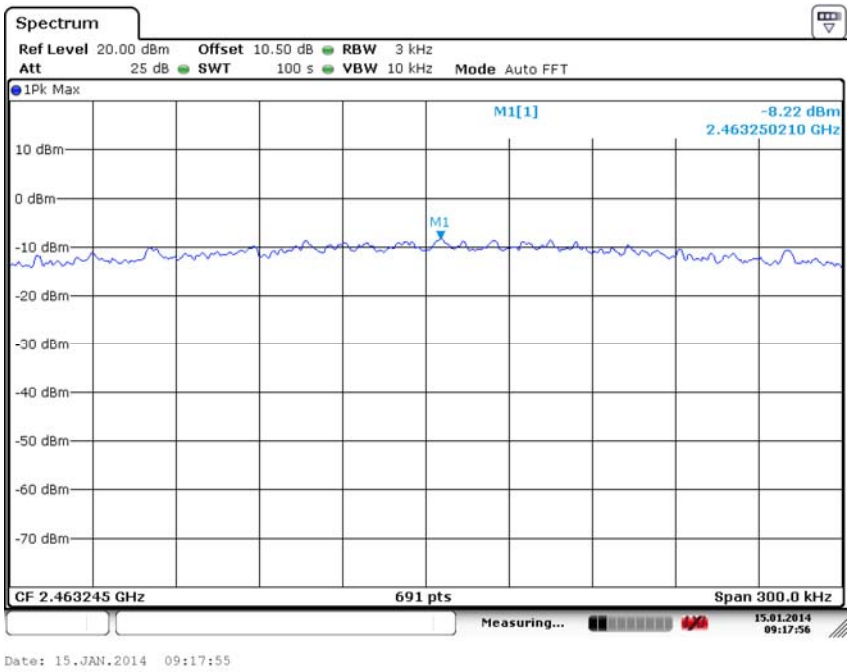
Carrier frequency (MHz)	Channel No	Power Density
2412	1	-8.99
2437	6	-8.24
2462	11	-8.22
2467	12	-11.09
2472	13	-14.20



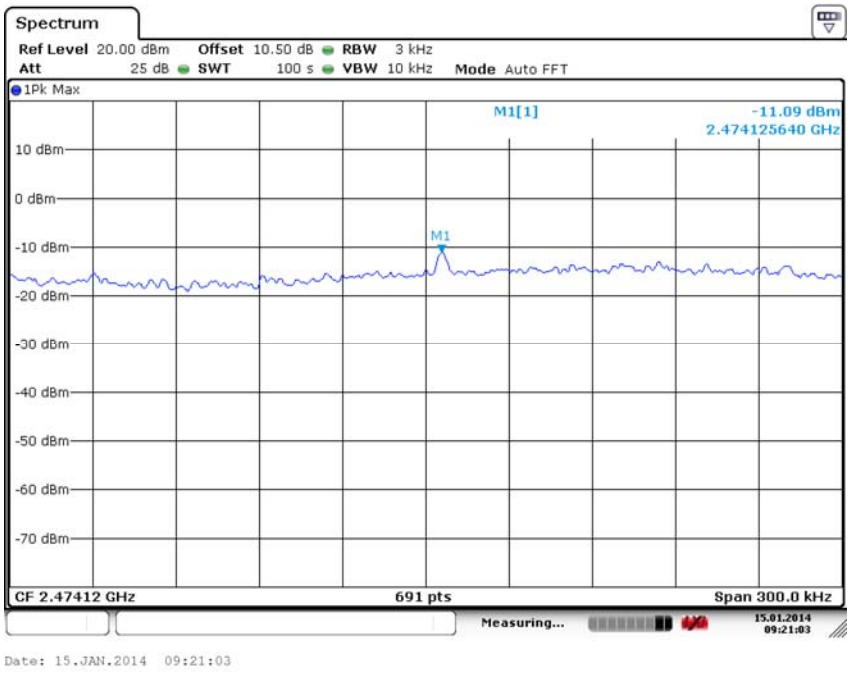
Carrier frequency (MHz): 2412
Channel No.1
Test Mode: 802.11n(HT20)



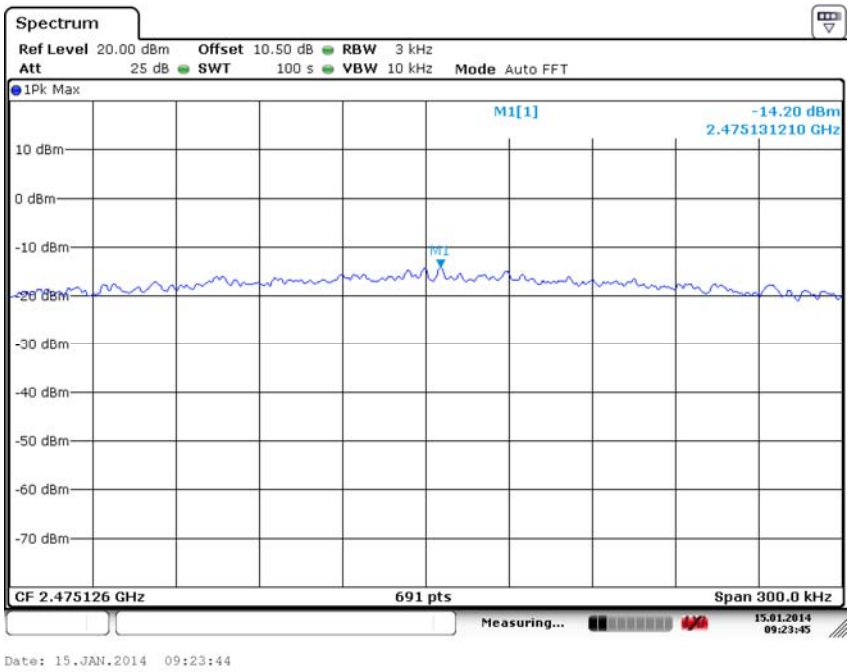
Carrier frequency (MHz): 2437
Channel No.6
Test Mode: 802.11n(HT20)



Carrier frequency (MHz): 2462
Channel No.11
Test Mode: 802.11n(HT20)



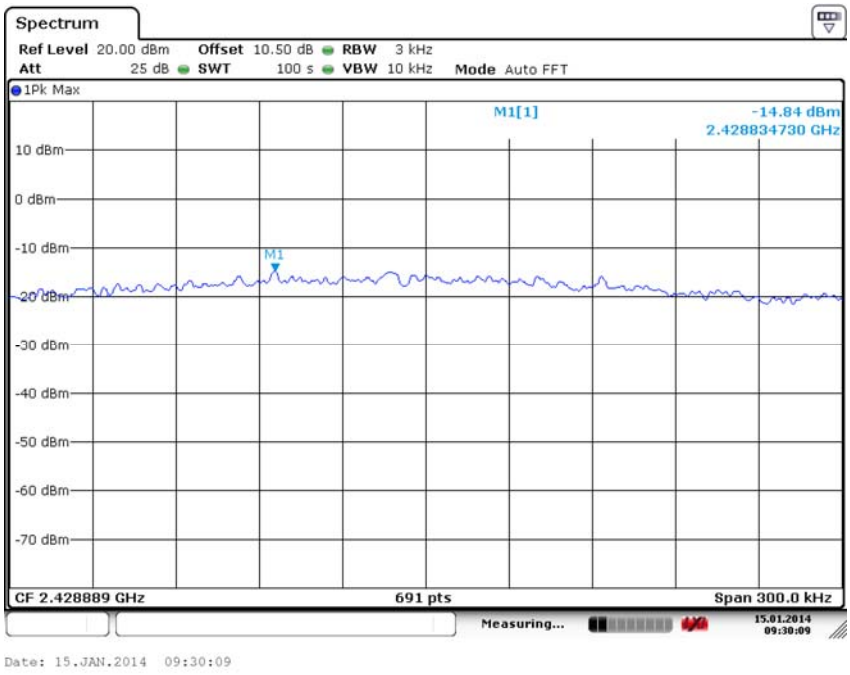
Carrier frequency (MHz): 2467
Channel No.12
Test Mode: 802.11n(HT20)



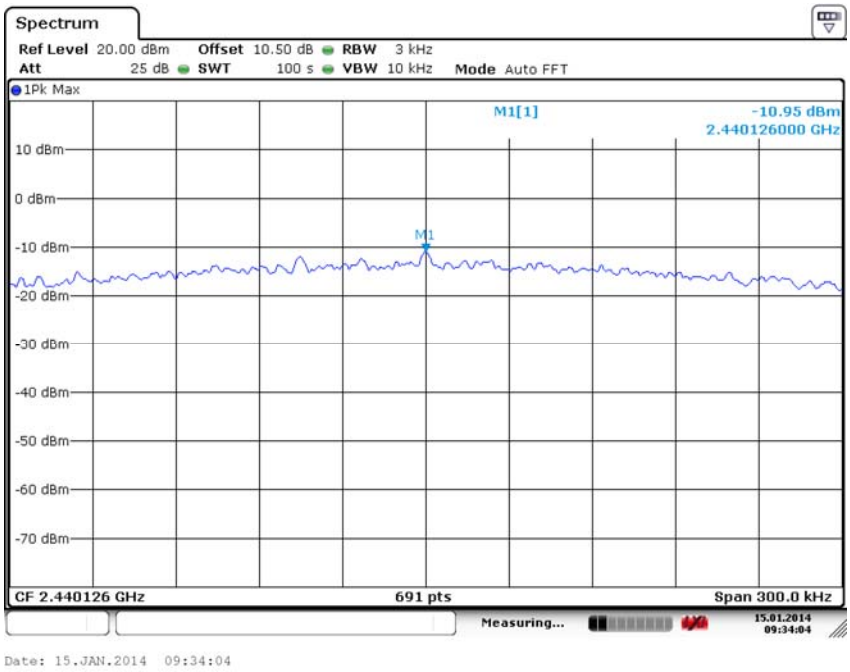
Carrier frequency (MHz): 2472
Channel No.13
Test Mode: 802.11n(HT20)

Test Mode: 802.11n(HT40)

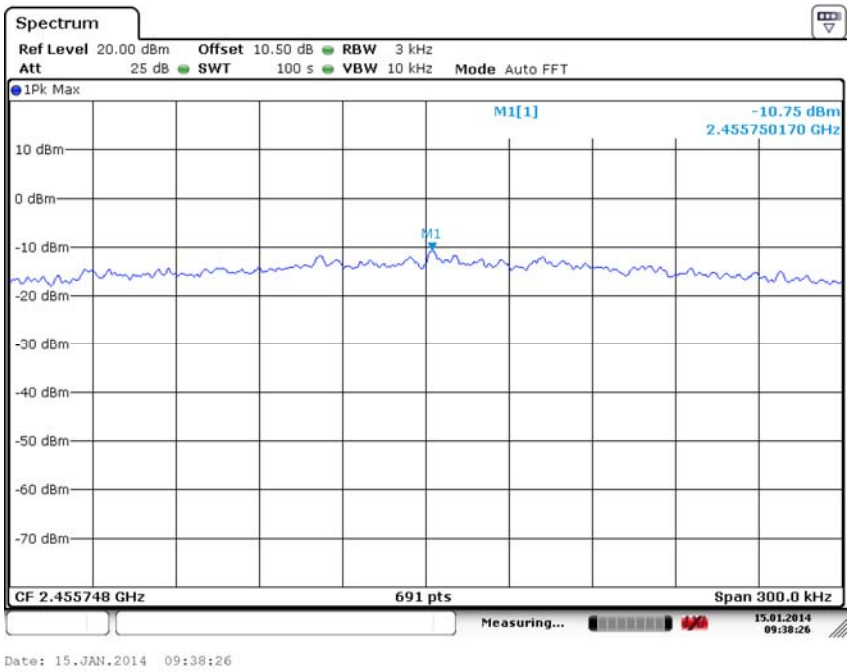
Carrier frequency (MHz)	Channel No	Power Density
2422	3	-14.84
2437	6	-10.95
2462	11	-10.75



Carrier frequency (MHz): 2422
Channel No.3
Test Mode: 802.11n(HT40)



Carrier frequency (MHz): 2437
Channel No.6
Test Mode: 802.11n(HT40)



Carrier frequency (MHz): 2462
Channel No.11
Test Mode: 802.11n(HT40)

2.2.4 Spurious RF Conducted Emissions

2.2.4.1 Ambient condition

Temperature	Relative humidity	Pressure
22°C	40%	101.1kPa

2.2.4.2 Test Description

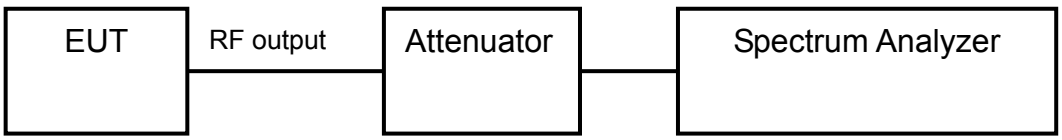
The measurement is made according to ANSI C63.10-2009.

The Equipment Under Test (EUT) was set up in a shielded room to perform the spurious emissions measurements.

The EUT was connected to the spectrum analyzer and WiFi set via a power splitter with a known loss.

Analyzer settings:
- Detector: Peak-Maxhold
- Frequency range: 30 ~25000 MHz
- Resolution Bandwidth (RBW): 100 kHz
- Video Bandwidth (VBW): 300 kHz

The reference value for the measurement of the spurious RF conducted emissions is determined during the test “band edge compliance” (cf. chapter 4.5). This value is used to calculate the 20 dBc limit.



2.2.4.3 Test limit

FCC Part15.247(d)
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

2.2.4.4 Test result

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11b

Frequency MHz	Corrected measurement value dBm	Reference value dBm	Limit dBm	Delta dB
---	---	---	---	---
---	---	---	---	---

Carrier frequency (MHz): 2437
Channel No.:6
Test Mode: 802.11b

Frequency MHz	Corrected measurement value dBm	Reference value dBm	Limit dBm	Delta dB
---	---	---	---	---
---	---	---	---	---

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11b

Frequency MHz	Corrected measurement value dBm	Reference value dBm	Limit dBm	Delta dB
---	---	---	---	---
---	---	---	---	---

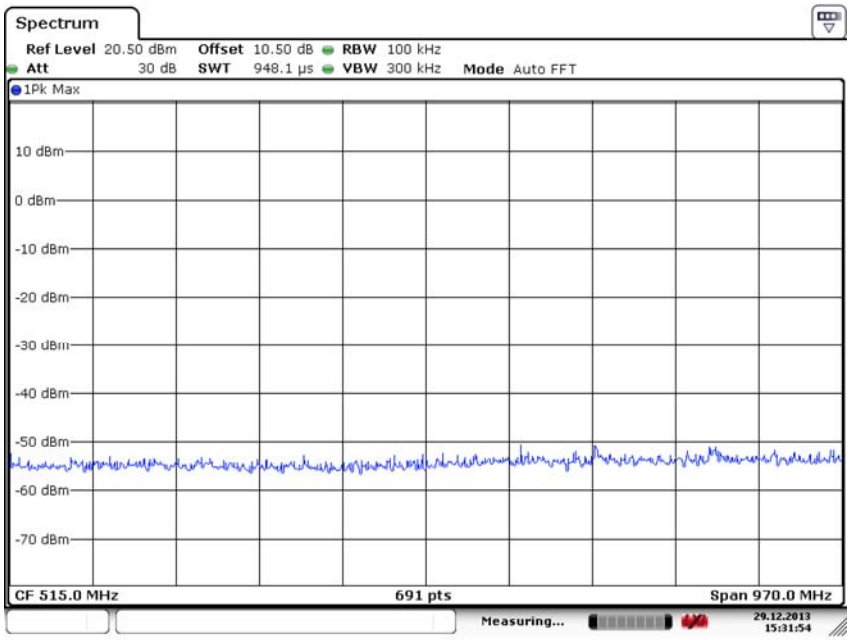
Carrier frequency (MHz): 2467
Channel No.:11
Test Mode: 802.11b

Frequency MHz	Corrected measurement value dBm	Reference value dBm	Limit dBm	Delta dB
---	---	---	---	---
---	---	---	---	---

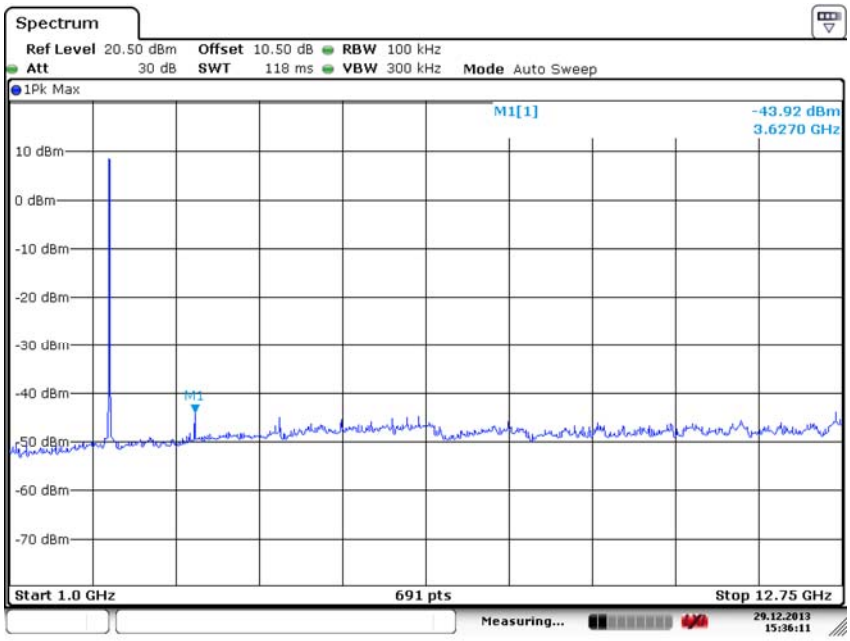
Carrier frequency (MHz): 2472
Channel No.:11
Test Mode: 802.11b

Frequency MHz	Corrected measurement value dBm	Reference value dBm	Limit dBm	Delta dB
---	---	---	---	---
---	---	---	---	---

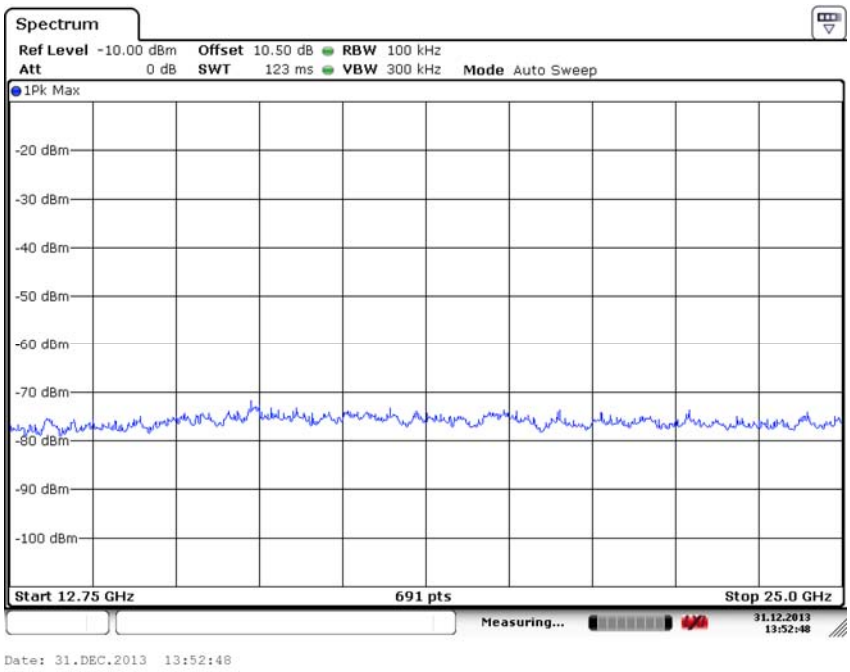
Note: The Reference value see 2.2.6 Band edge compliance



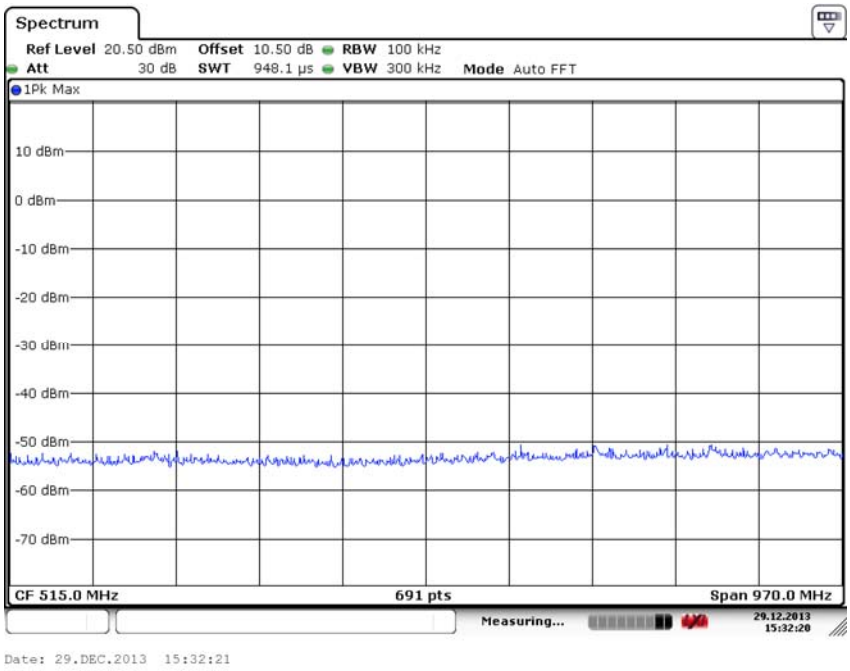
Date: 29.DEC.2013 15:31:55

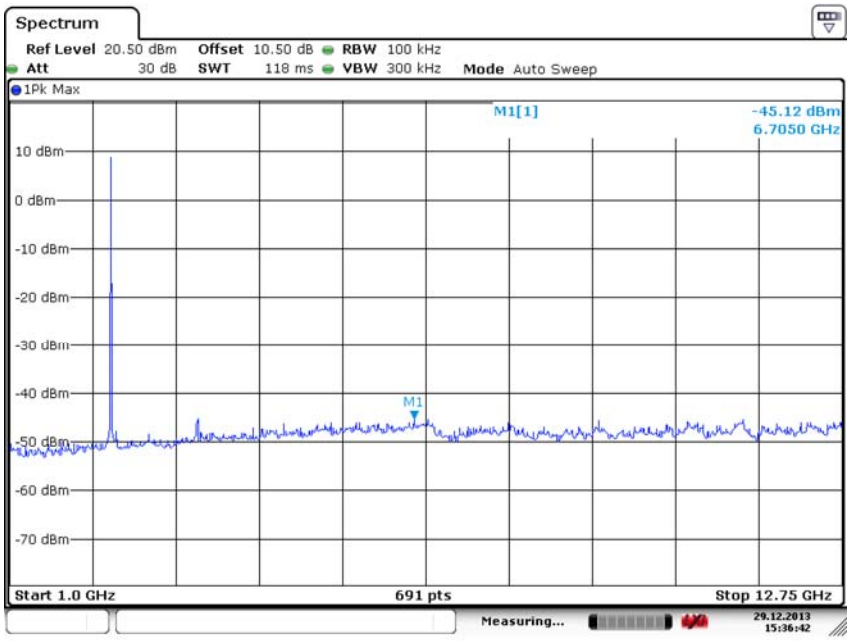


Date: 29.DEC.2013 15:36:11

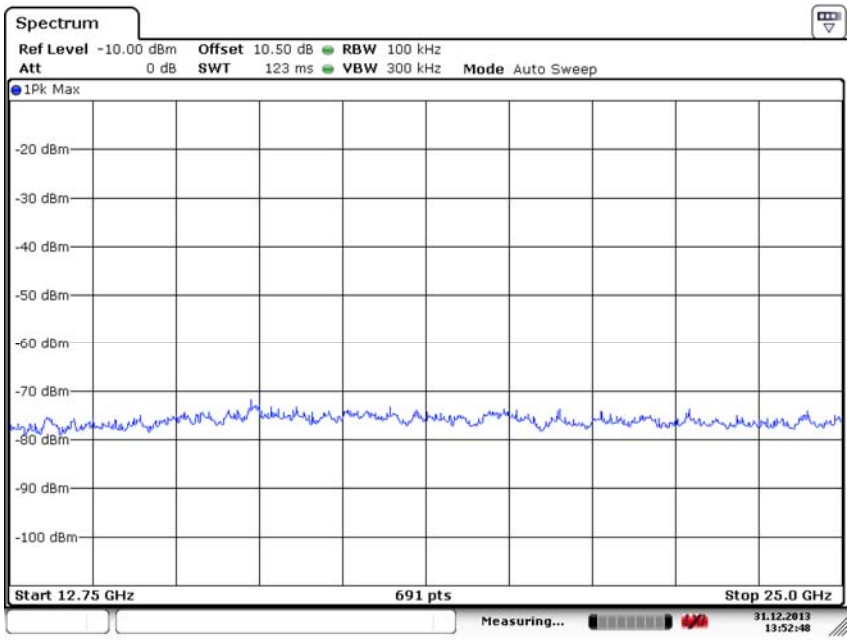


Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11b



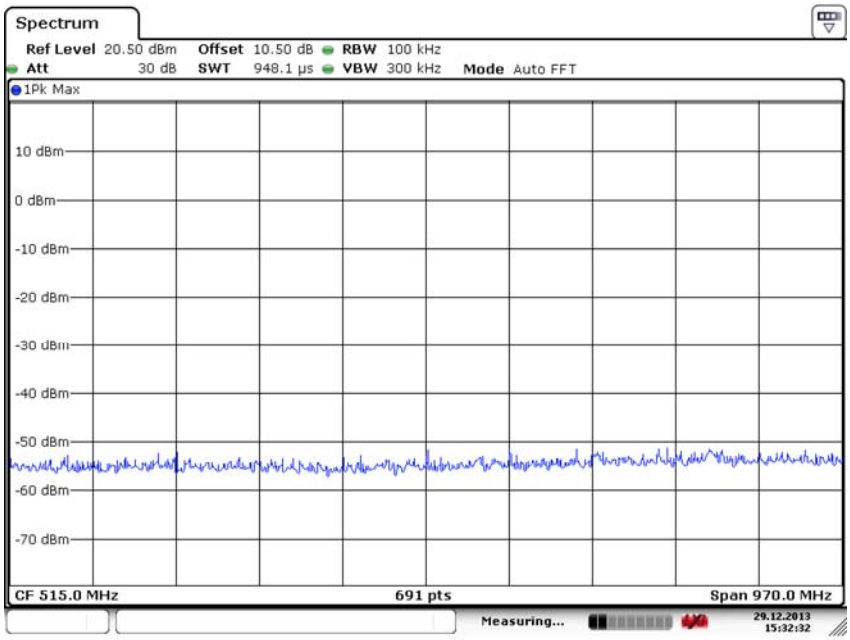


Date: 29.DEC.2013 15:36:43

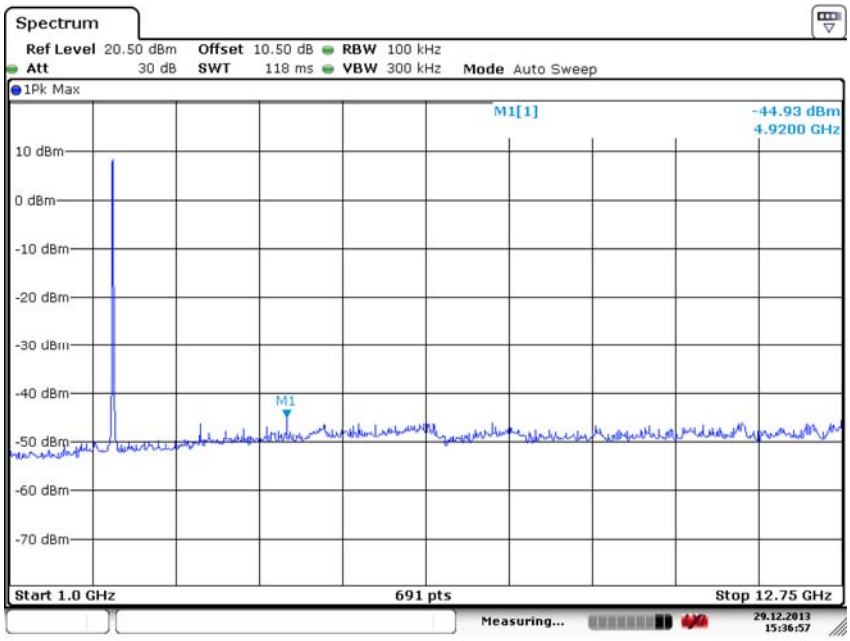


Date: 31.DEC.2013 13:52:48

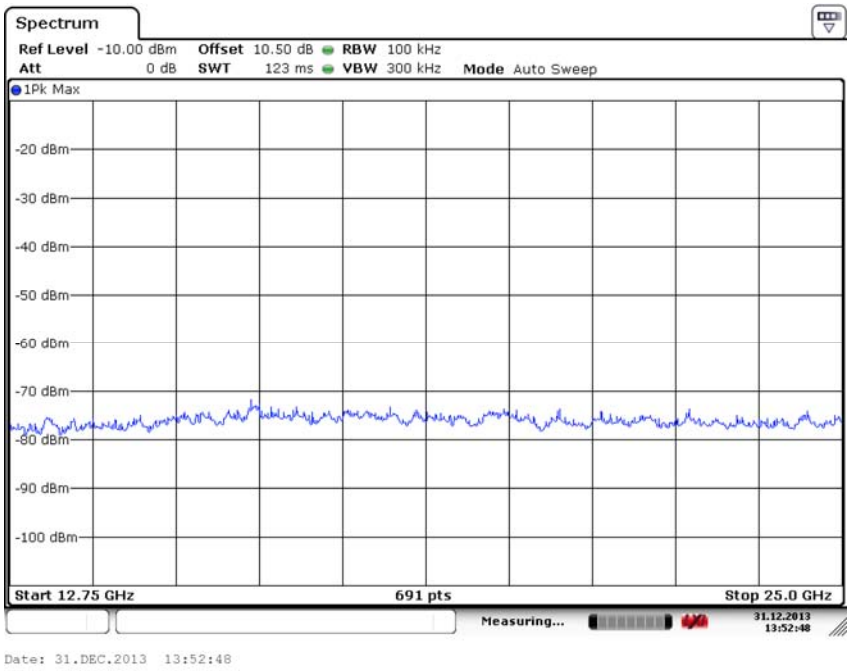
Carrier frequency (MHz): 2437
Channel No.:6
Test Mode: 802.11b



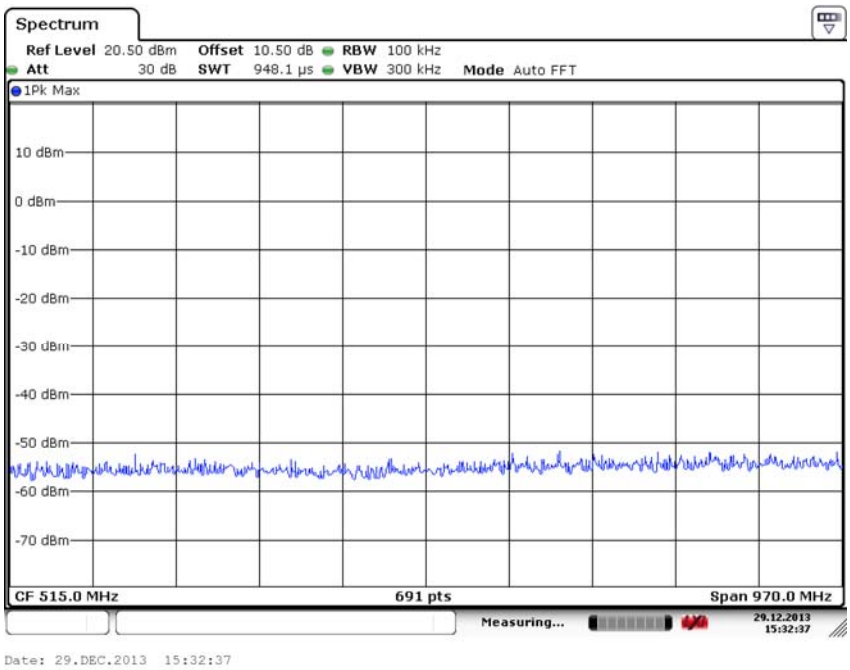
Date: 29.DEC.2013 15:32:32

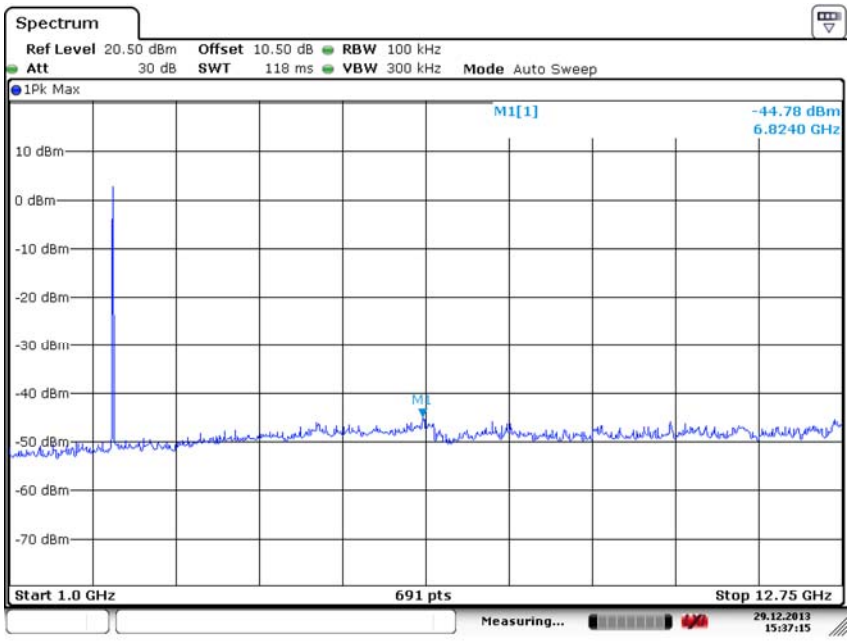


Date: 29.DEC.2013 15:36:58



Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11b





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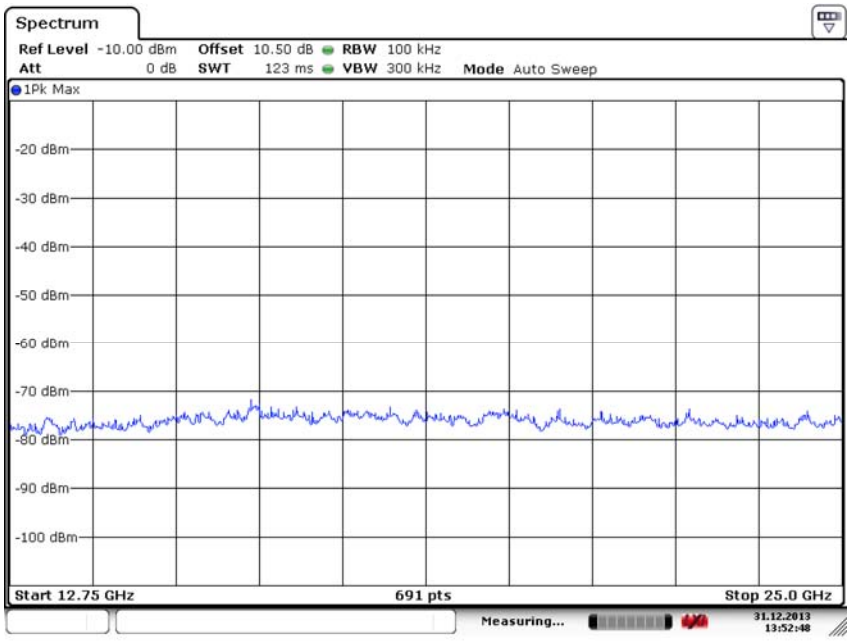
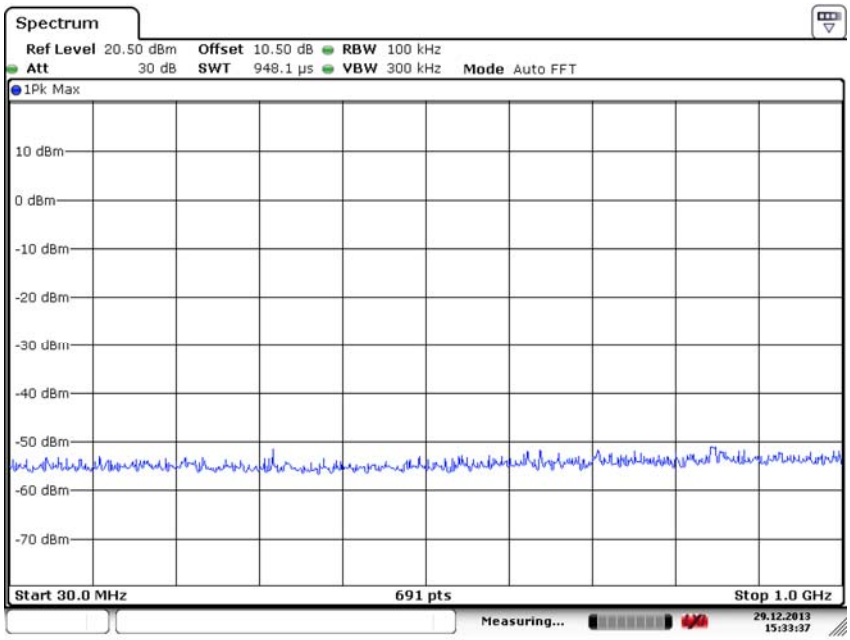
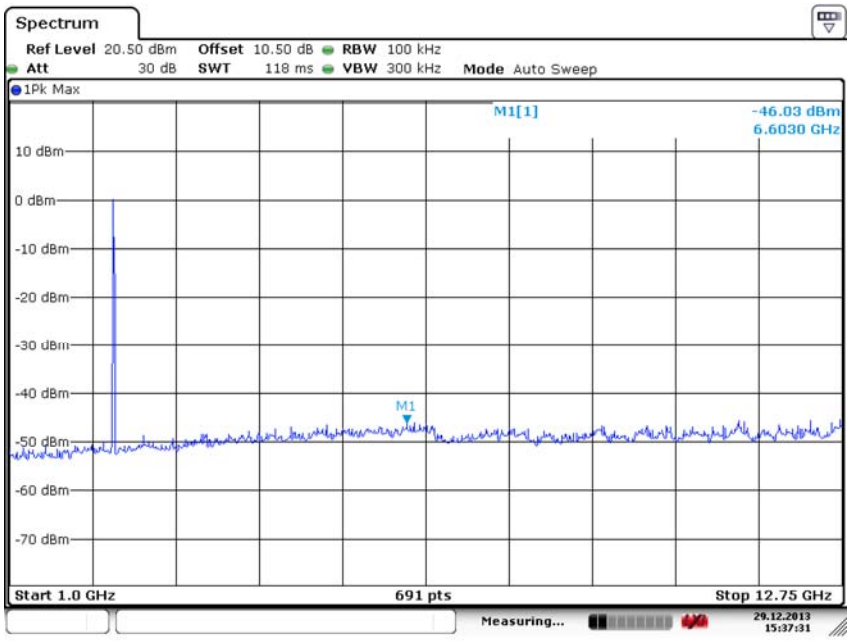


Date: 31.DEC.2013 13:52:48

Carrier frequency (MHz): 2467
Channel No.:12
Test Mode: 802.11b



Date: 29.DEC.2013 15:33:37



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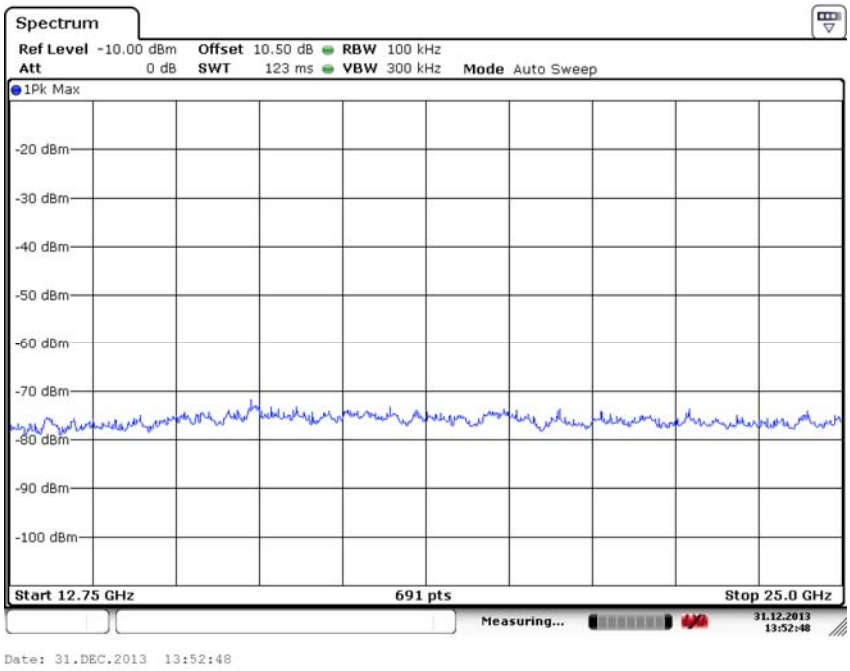


Carrier frequency (MHz): 2472
Channel No.:13

Test Mode: 802.11b

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11g

Frequency MHz	Corrected measurement value dBm	Reference value dBm	Limit dBm	Delta dB
---	---	---	---	---
---	---	---	---	---

Carrier frequency (MHz): 2437
Channel No.:6
Test Mode: 802.11g

Frequency MHz	Corrected measurement value dBm	Reference value dBm	Limit dBm	Delta dB
---	---	---	---	---
---	---	---	---	---

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11g

Frequency MHz	Corrected measurement value dBm	Reference value dBm	Limit dBm	Delta dB
---	---	---	---	---
---	---	---	---	---

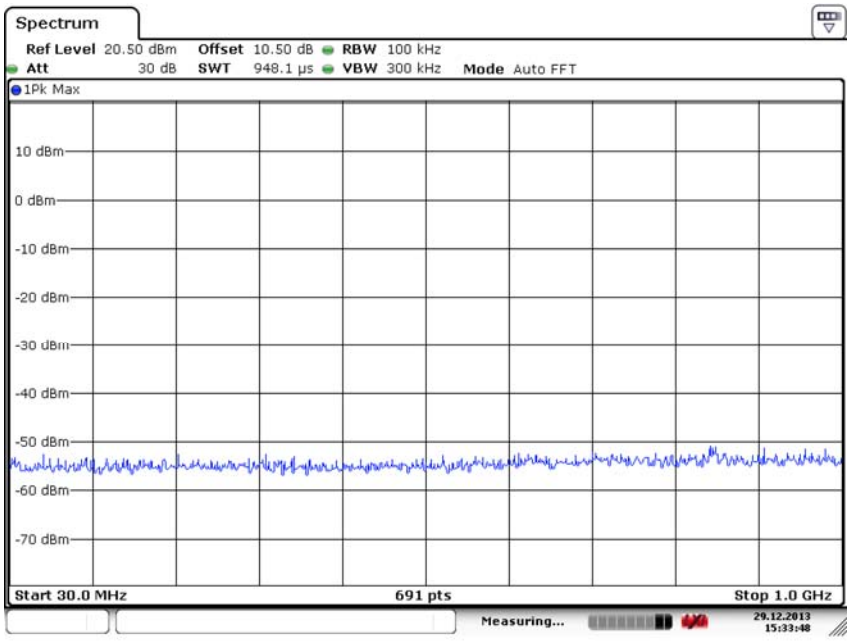
Carrier frequency (MHz): 2467
Channel No.:11
Test Mode: 802.11g

Frequency MHz	Corrected measurement value dBm	Reference value dBm	Limit dBm	Delta dB
---	---	---	---	---
---	---	---	---	---

Carrier frequency (MHz): 2472
Channel No.:11
Test Mode: 802.11g

Frequency MHz	Corrected measurement value dBm	Reference value dBm	Limit dBm	Delta dB
---	---	---	---	---
---	---	---	---	---

Note: The Reference value see 2.2.6 Band edge compliance



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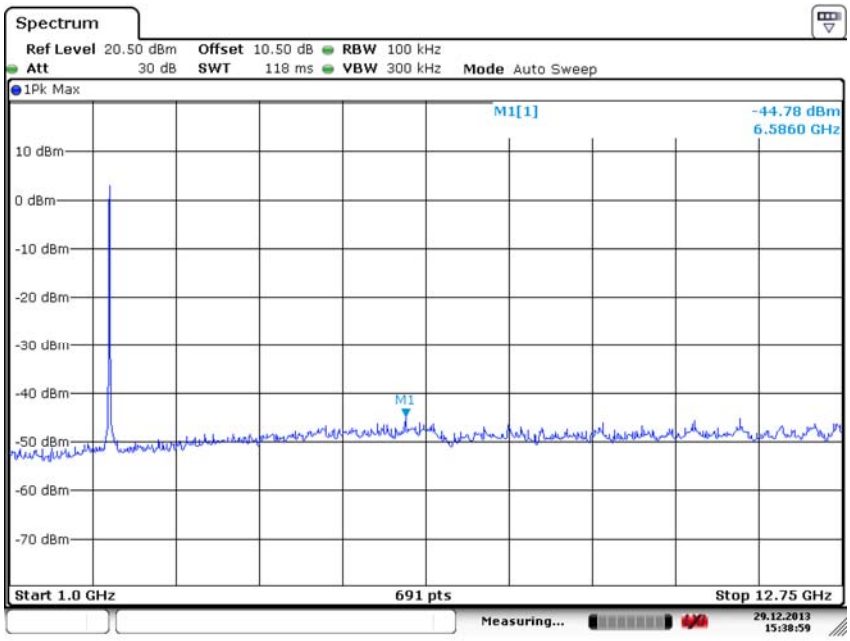

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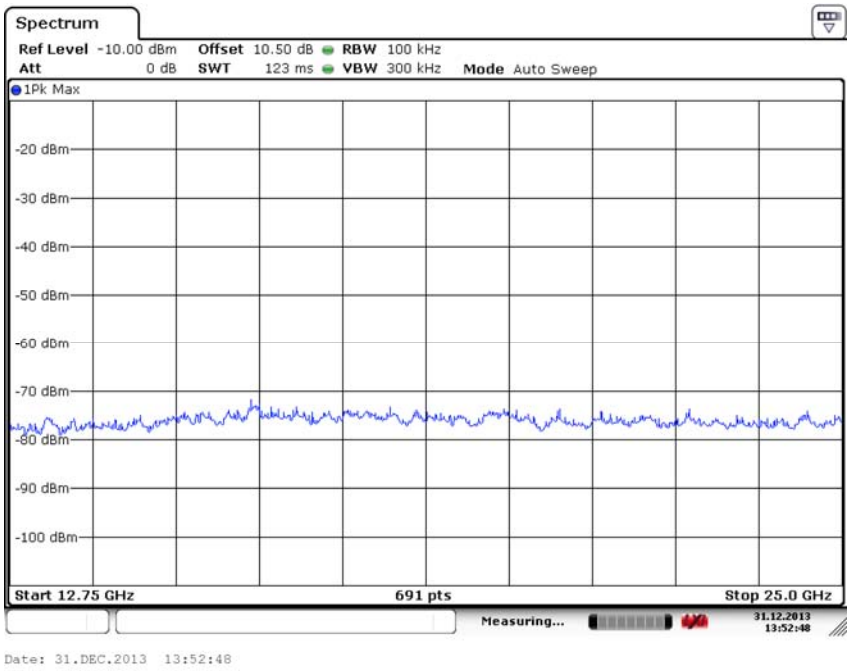
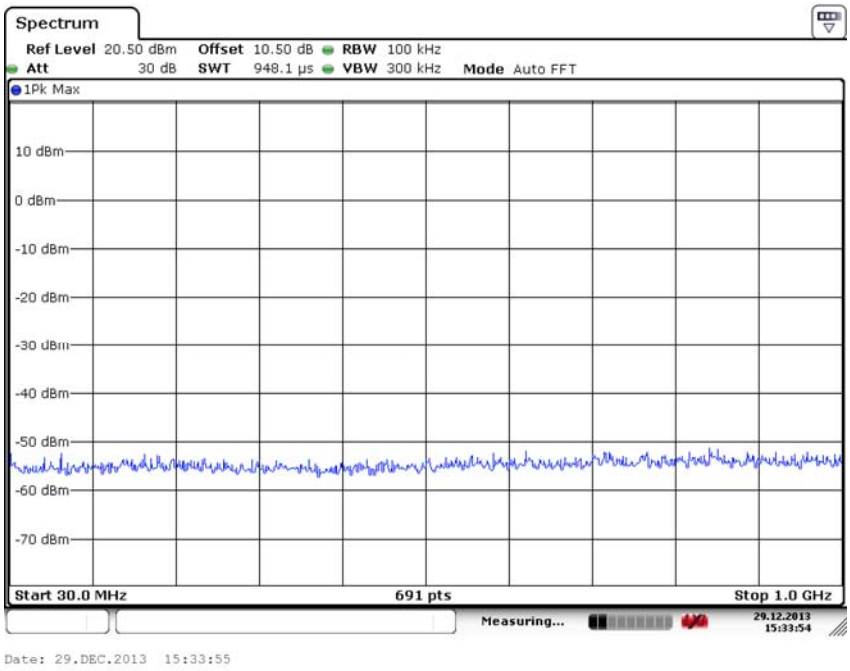
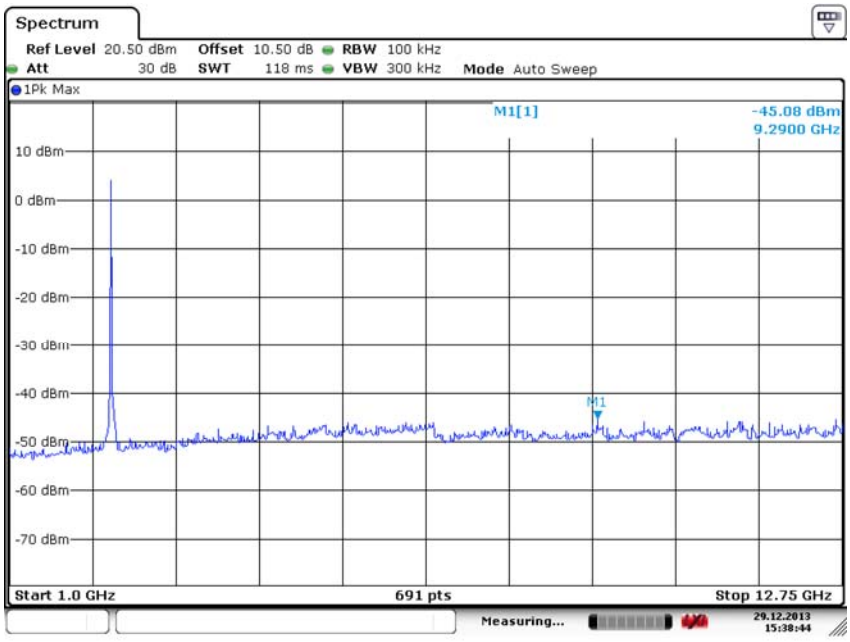


Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11g





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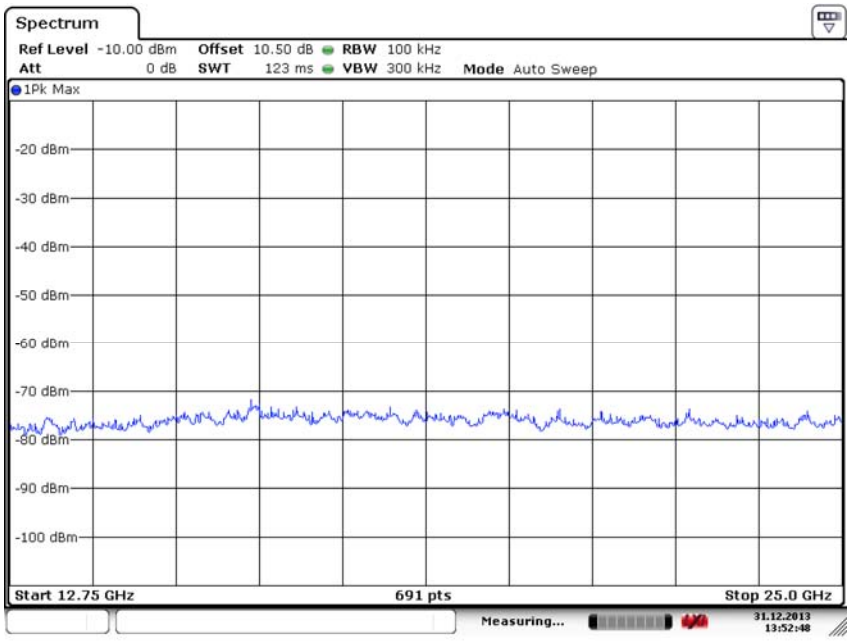
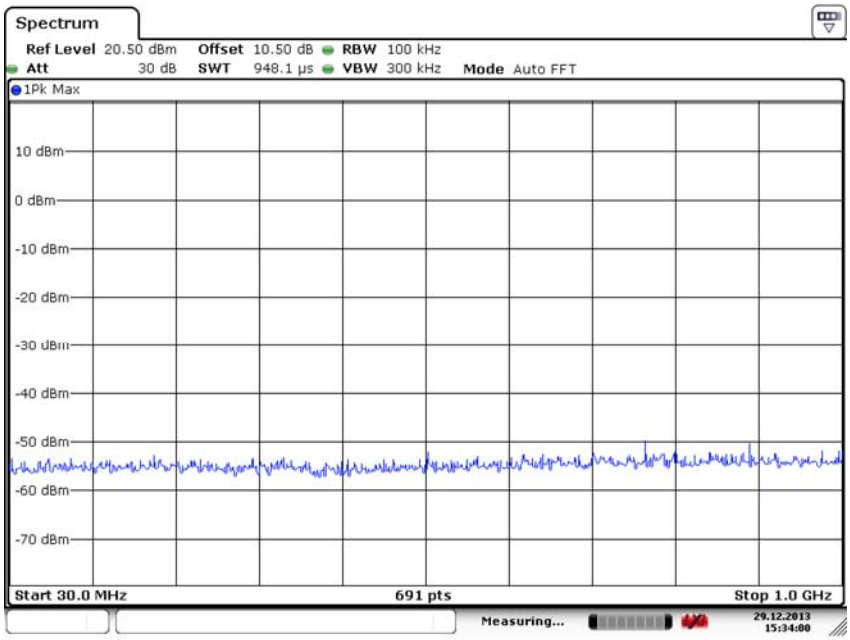


Date: 31.DEC.2013 13:52:48

Carrier frequency (MHz): 2437
Channel No.:6
Test Mode: 802.11g



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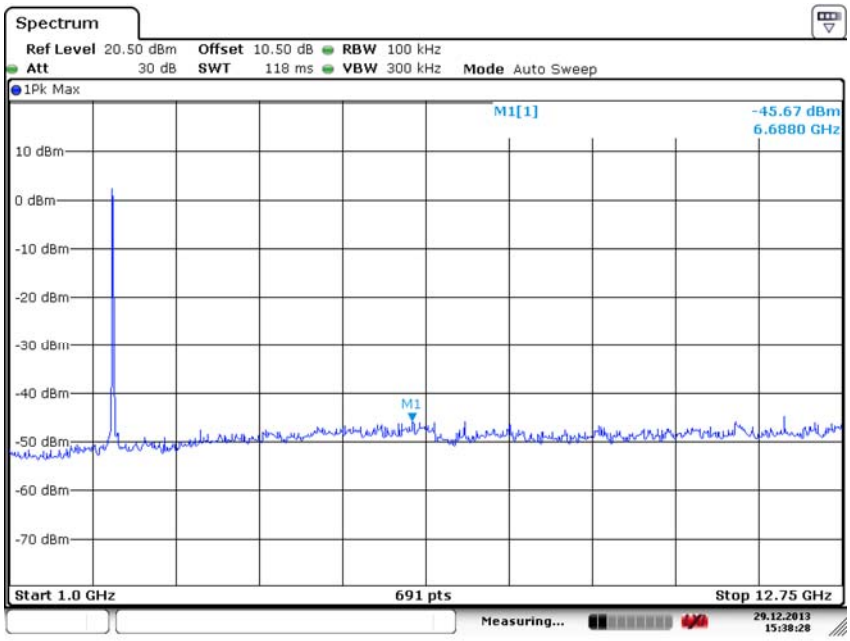

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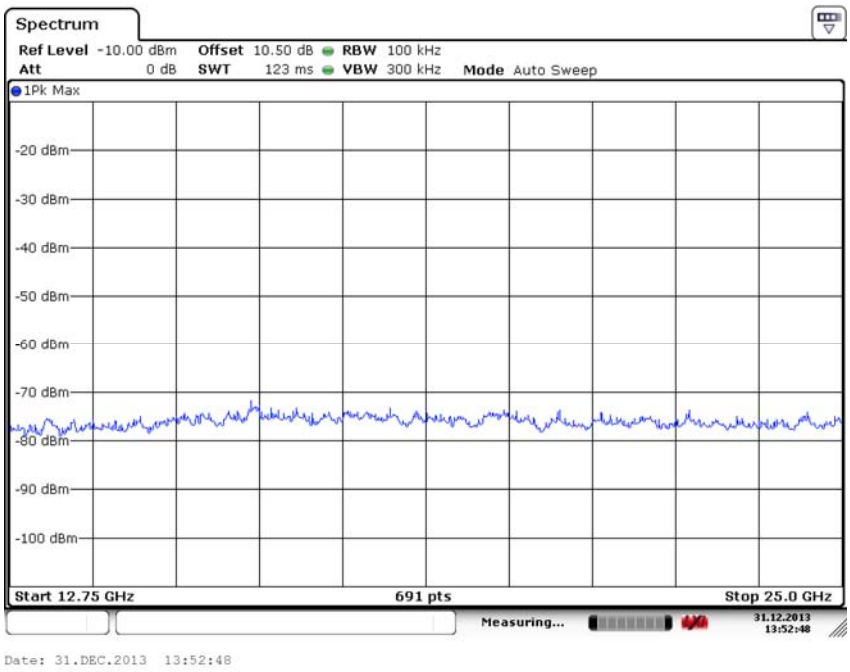
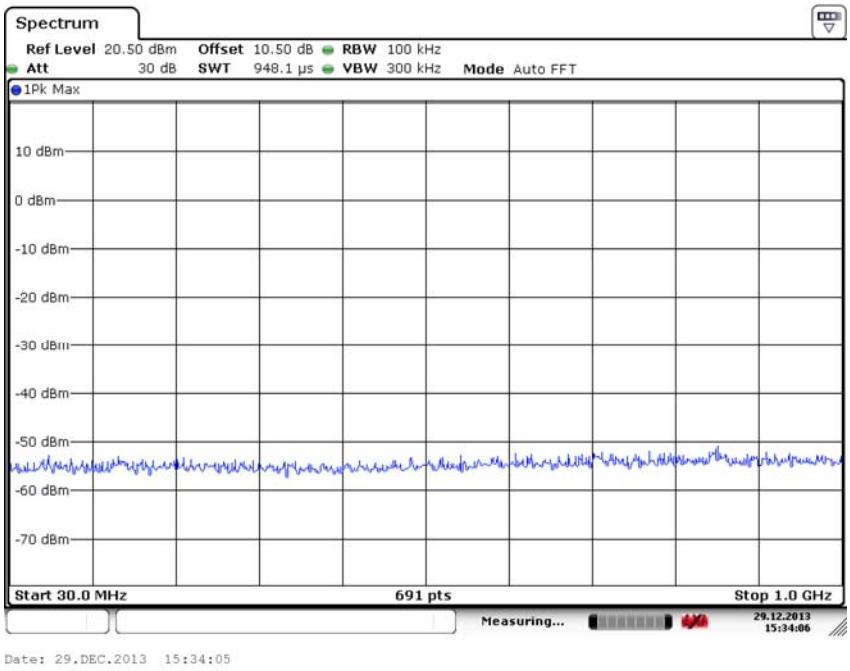
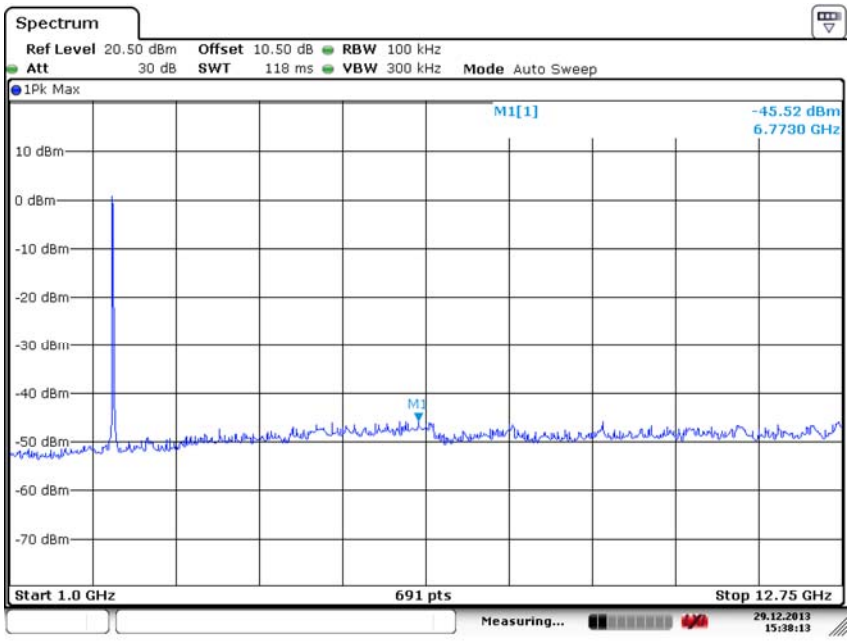


Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11g





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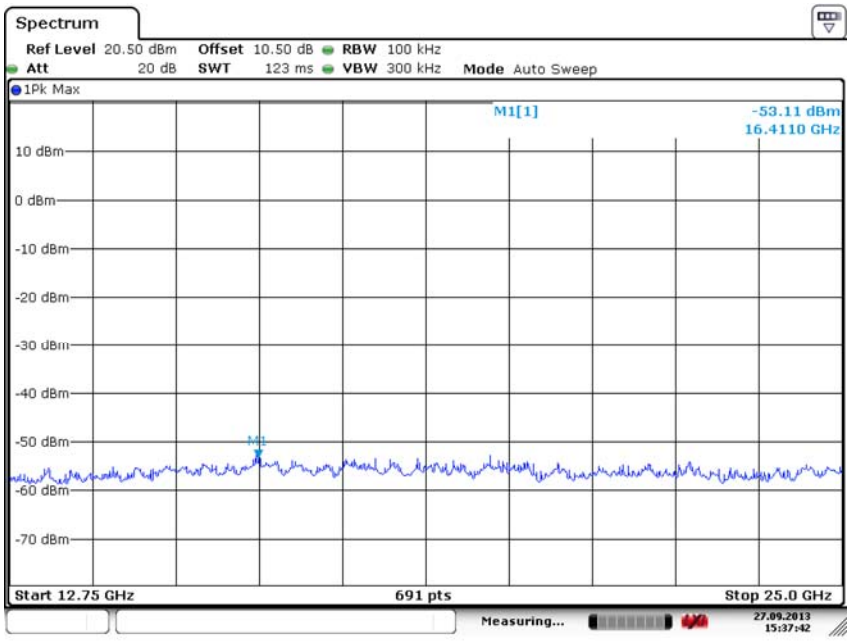
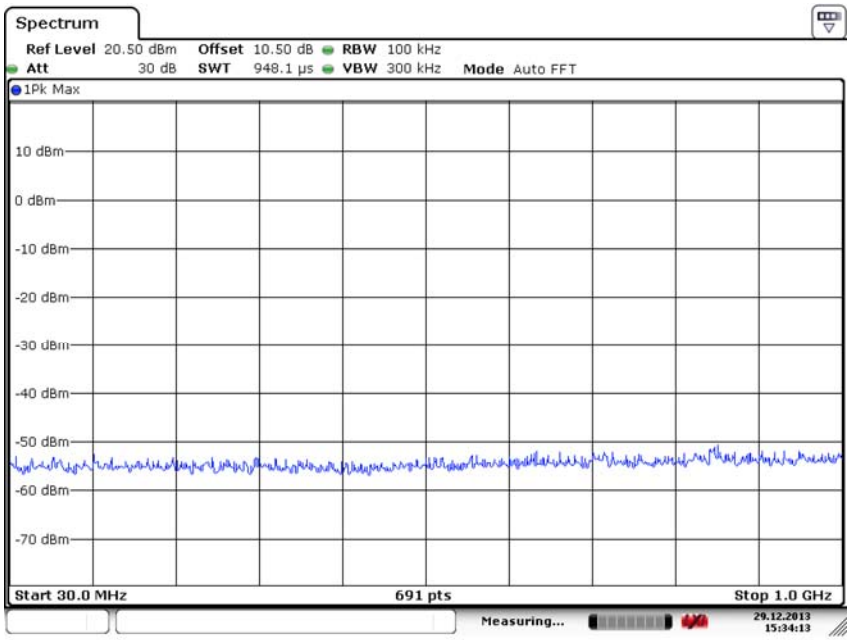


Date: 27.SEP.2013 15:37:40

Carrier frequency (MHz): 2467
Channel No.:12
Test Mode: 802.11g



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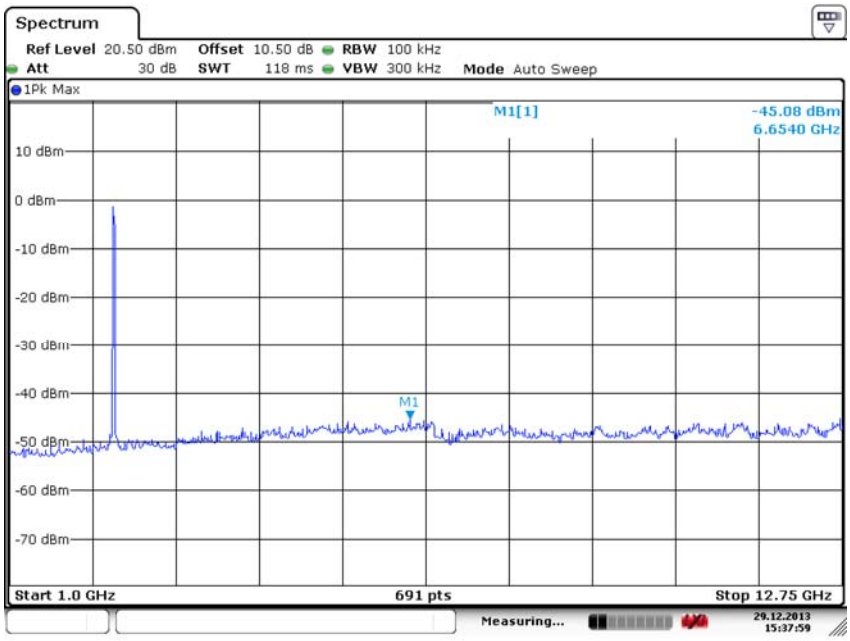
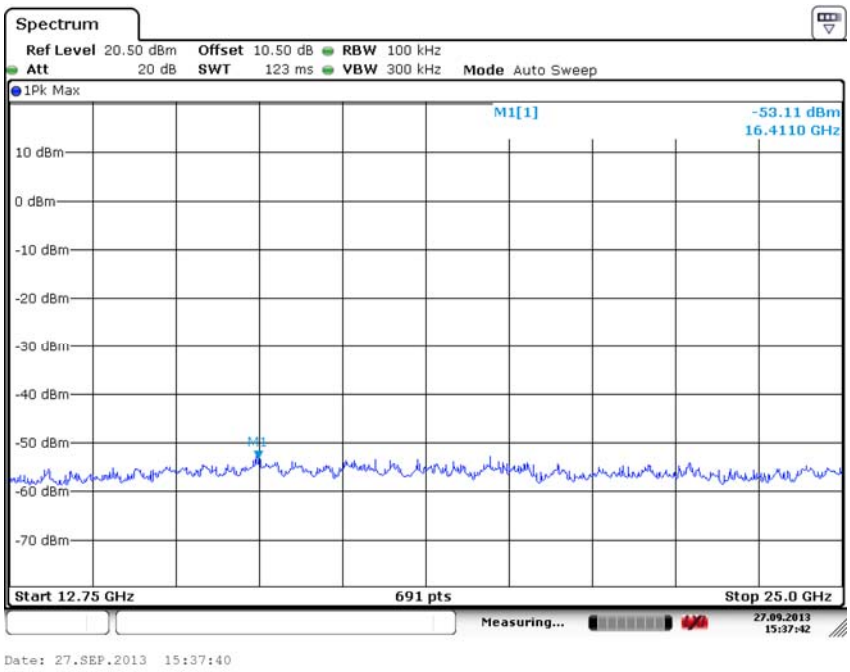


Date: 29.DEC.2013 15:37:59



Carrier frequency (MHz): 2472
Channel No.:13
Test Mode: 802.11g

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11n(HT20)

Frequency MHz	Corrected measurement value dBm	Reference value dBm	Limit dBm	Delta dB
---	---	---	---	---
---	---	---	---	---

Carrier frequency (MHz): 2437
Channel No.:6
Test Mode: 802.11n(HT20)

Frequency MHz	Corrected measurement value dBm	Reference value dBm	Limit dBm	Delta dB
---	---	---	---	---
---	---	---	---	---

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11n(HT20)

Frequency MHz	Corrected measurement value dBm	Reference value dBm	Limit dBm	Delta dB
---	---	---	---	---
---	---	---	---	---

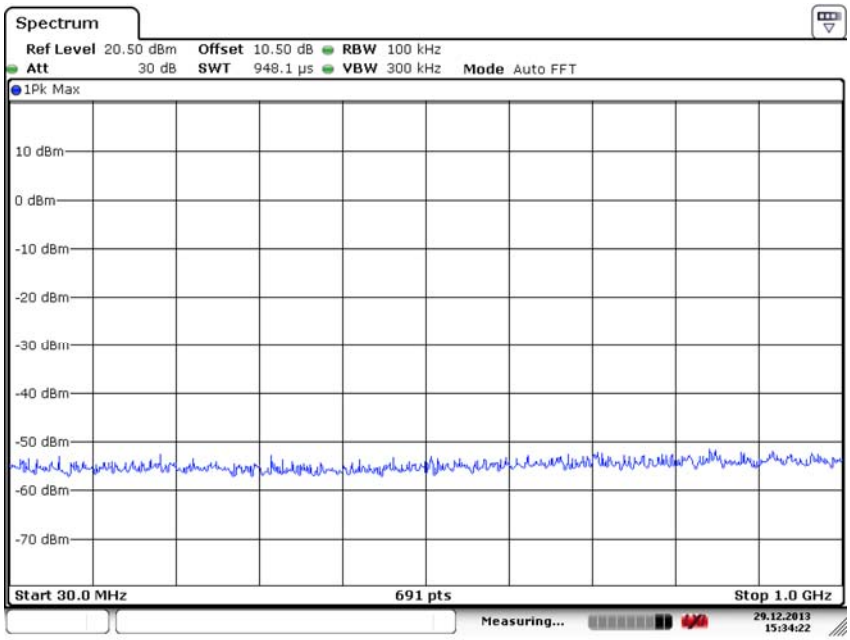
Carrier frequency (MHz): 2467
Channel No.:11
Test Mode: 802.11n(HT20)

Frequency MHz	Corrected measurement value dBm	Reference value dBm	Limit dBm	Delta dB
---	---	---	---	---
---	---	---	---	---

Carrier frequency (MHz): 2472
Channel No.:11
Test Mode: 802.11n(HT20)

Frequency MHz	Corrected measurement value dBm	Reference value dBm	Limit dBm	Delta dB
---	---	---	---	---
---	---	---	---	---

Note: The Reference value see 2.2.6 Band edge compliance



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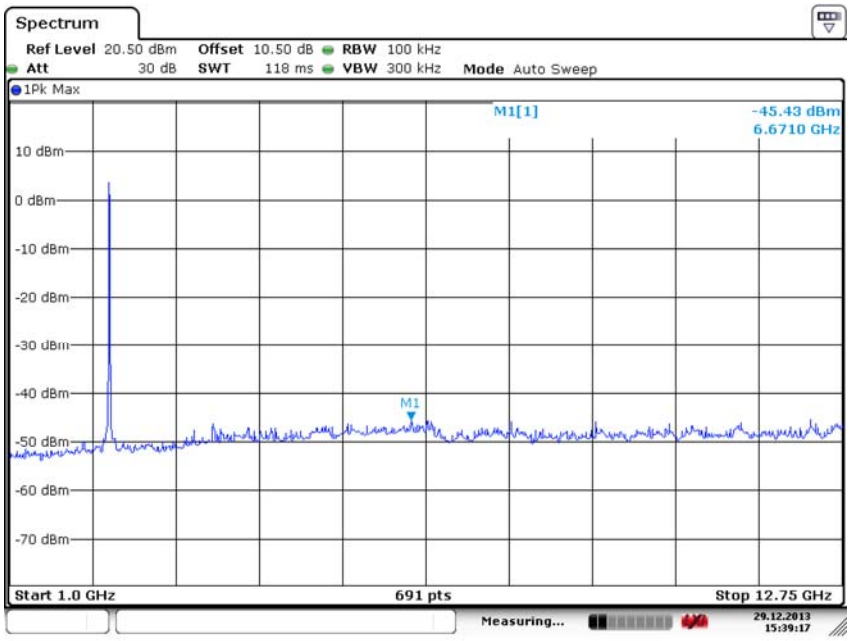
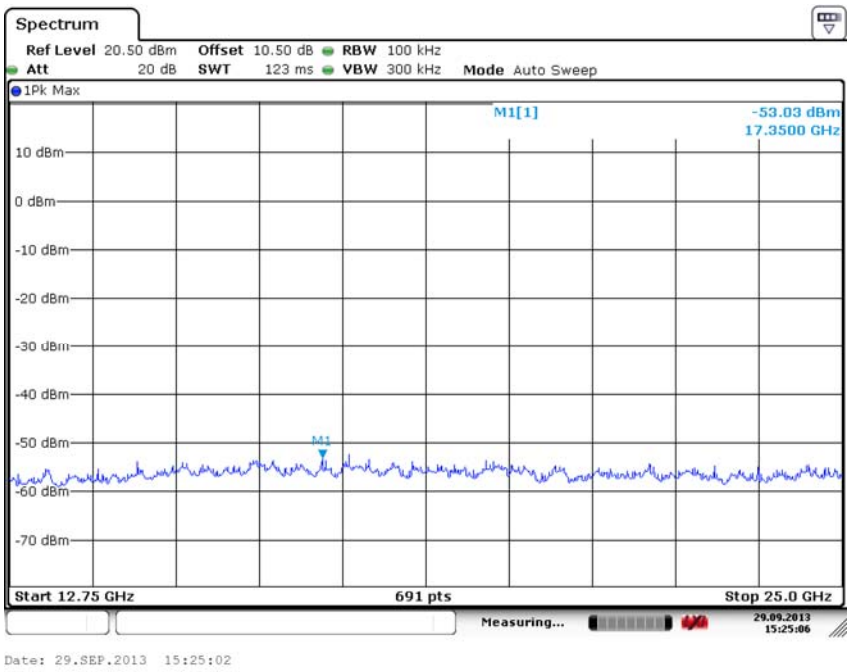
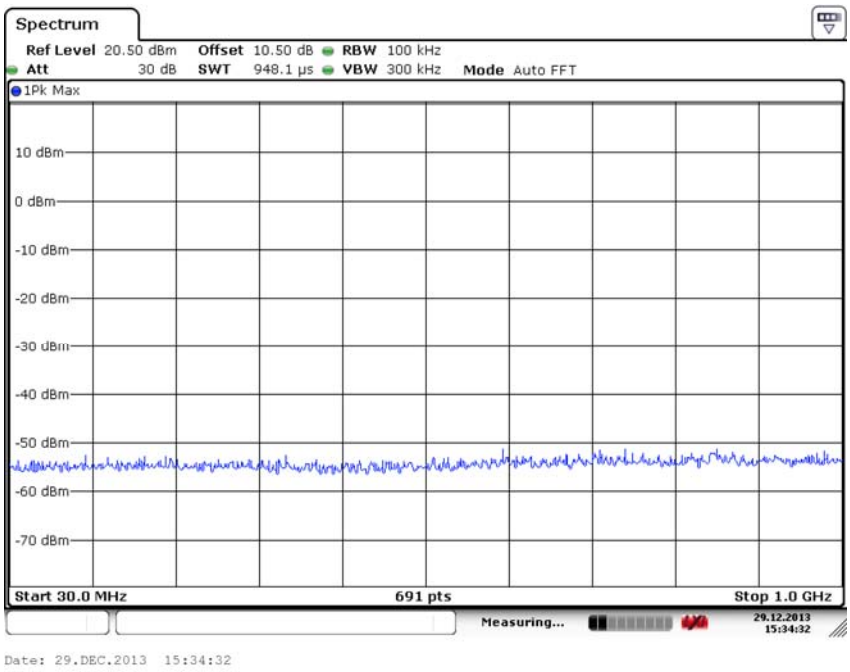
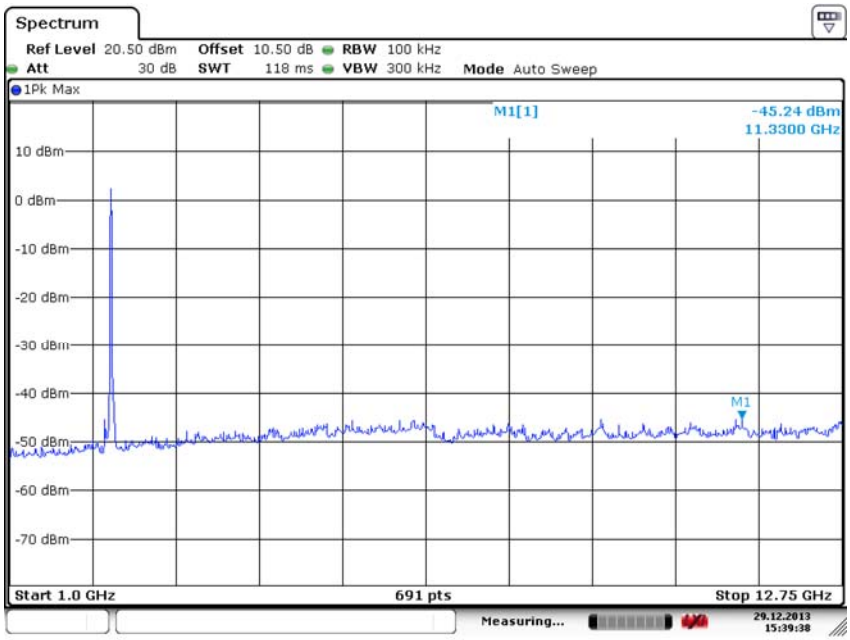


Date: 29.DEC.2013 15:39:17



Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11n(HT20)





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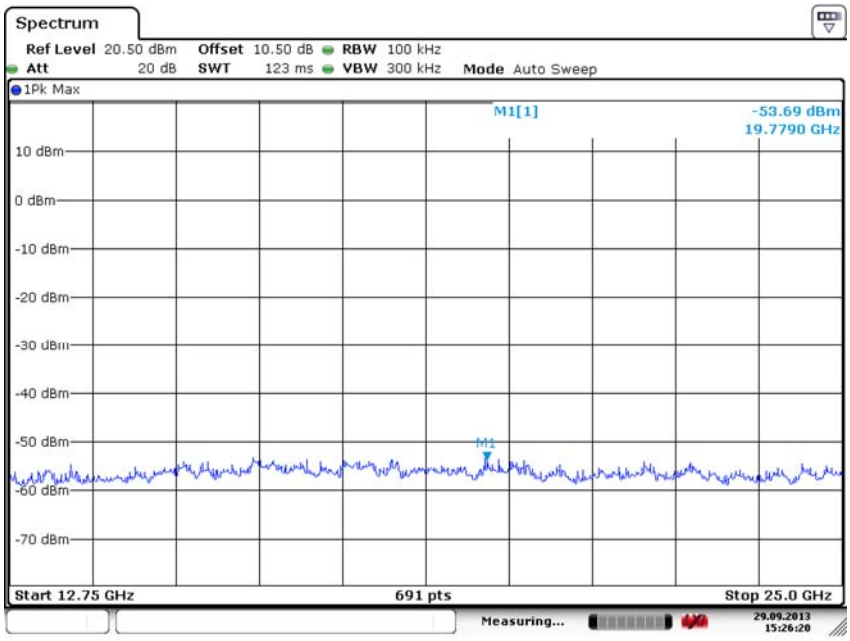
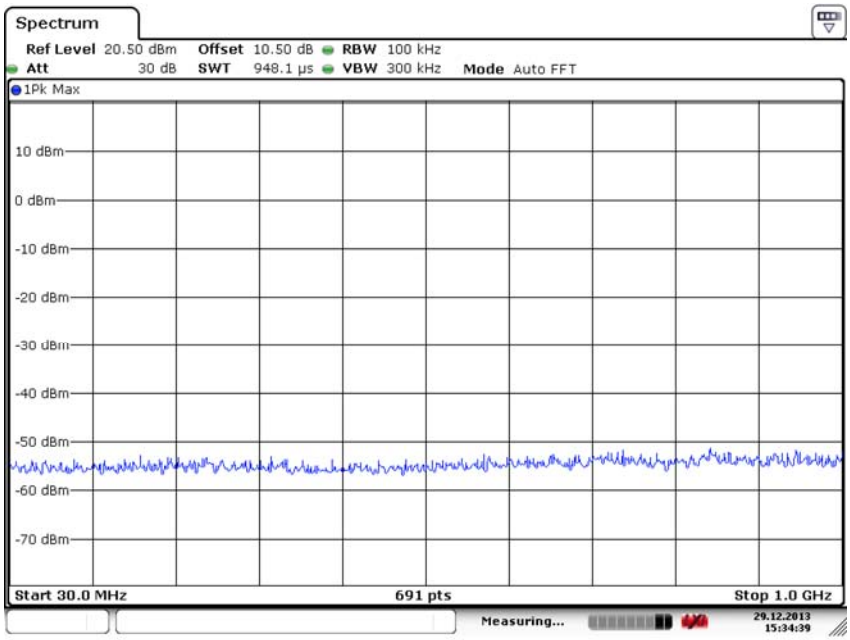
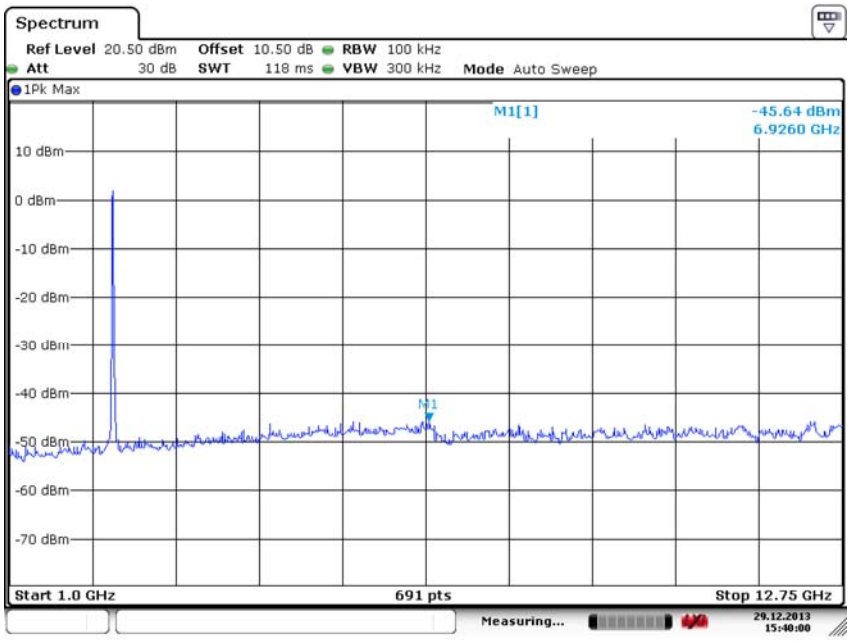


Date: 29.SEP.2013 15:26:16

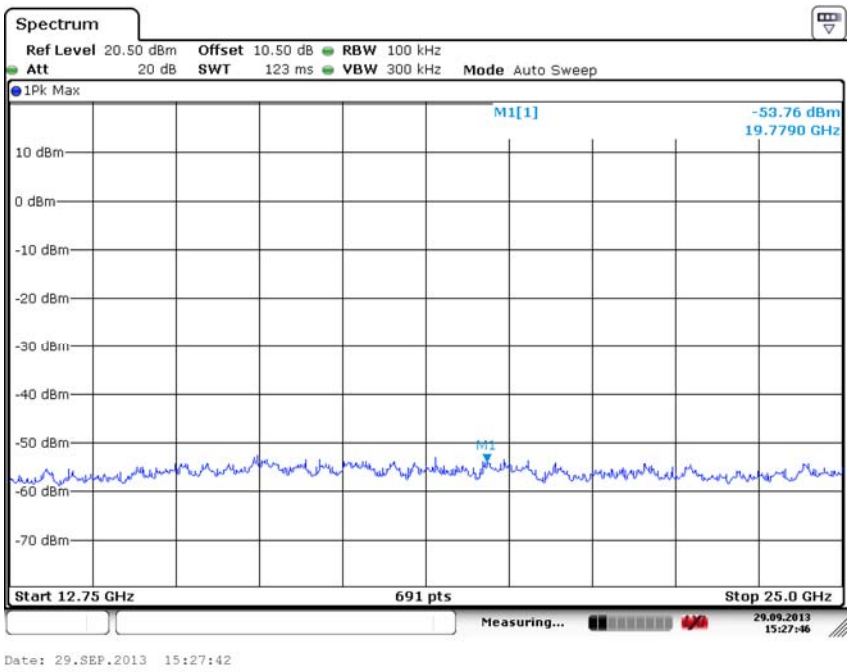
Carrier frequency (MHz): 2437
Channel No.:6
Test Mode: 802.11n(HT20)



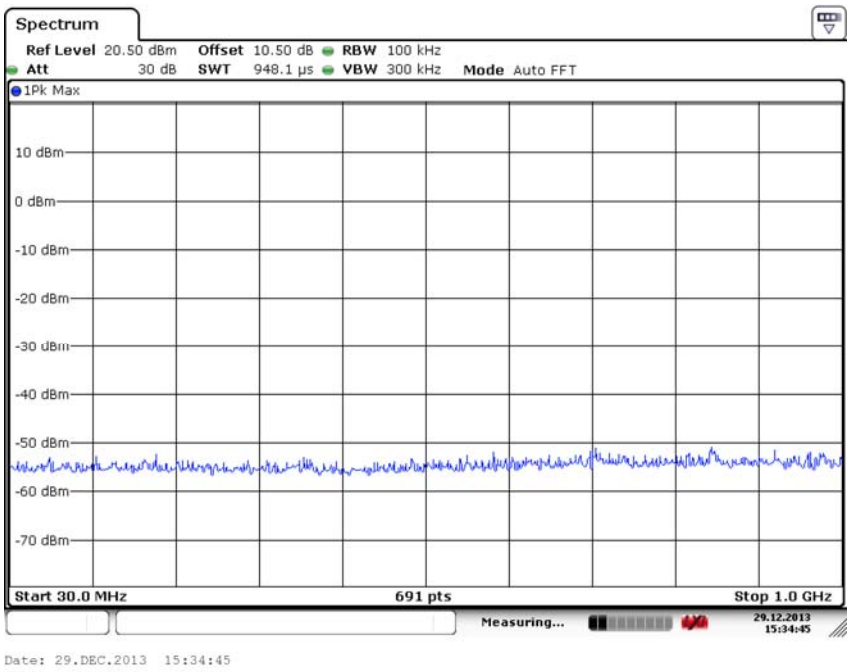
Date: 29.DEC.2013 15:34:39

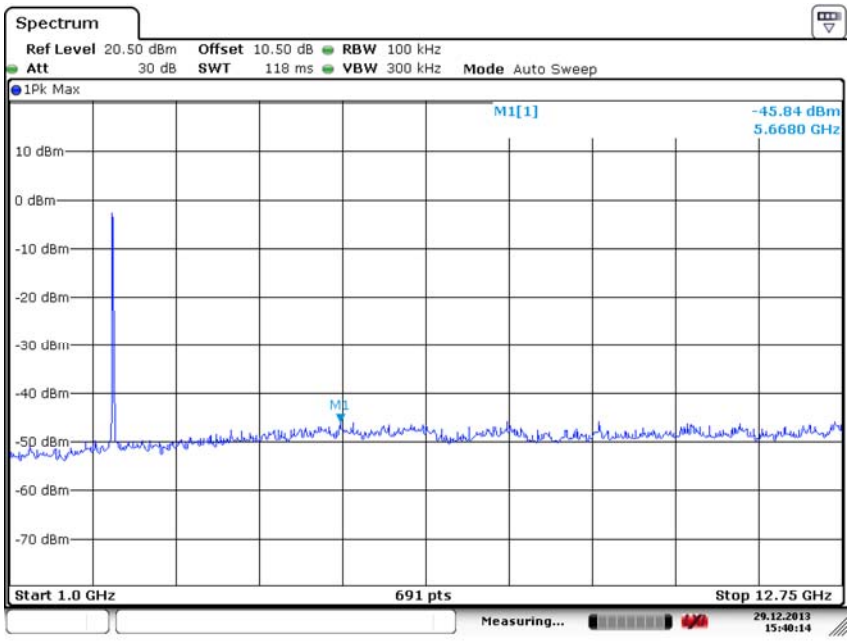


Date: 29.DEC.2013 15:39:59

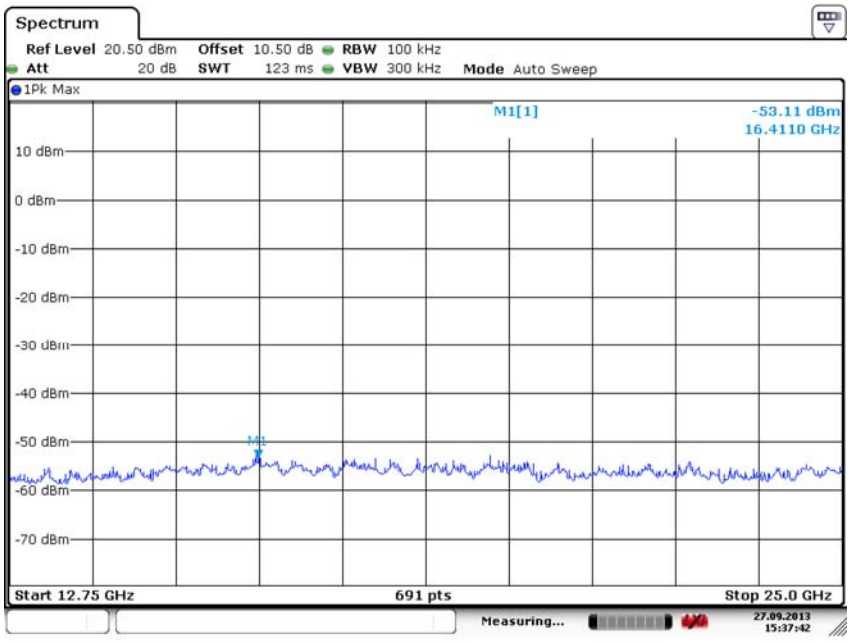


Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11n(HT20)



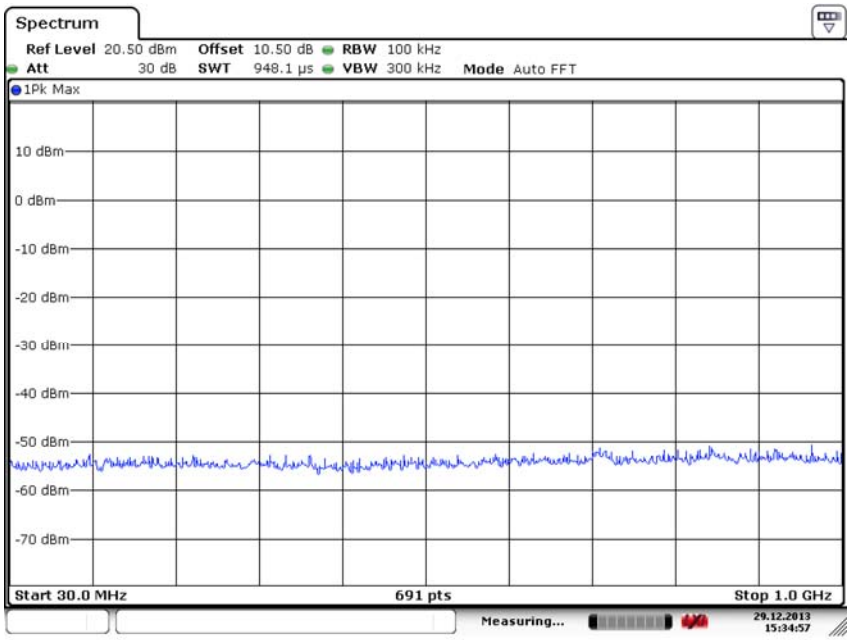


Date: 29.DEC.2013 15:40:14

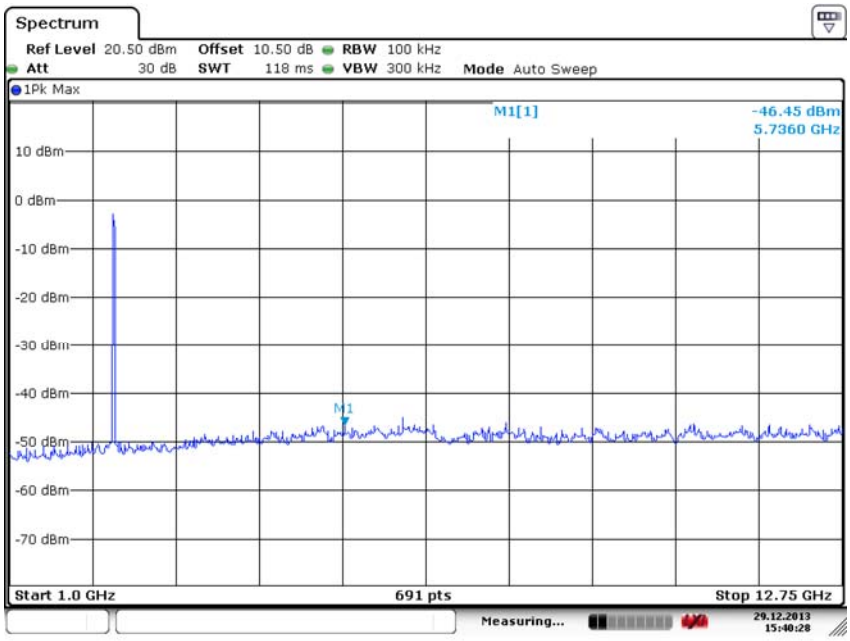


Date: 27.SEP.2013 15:37:40

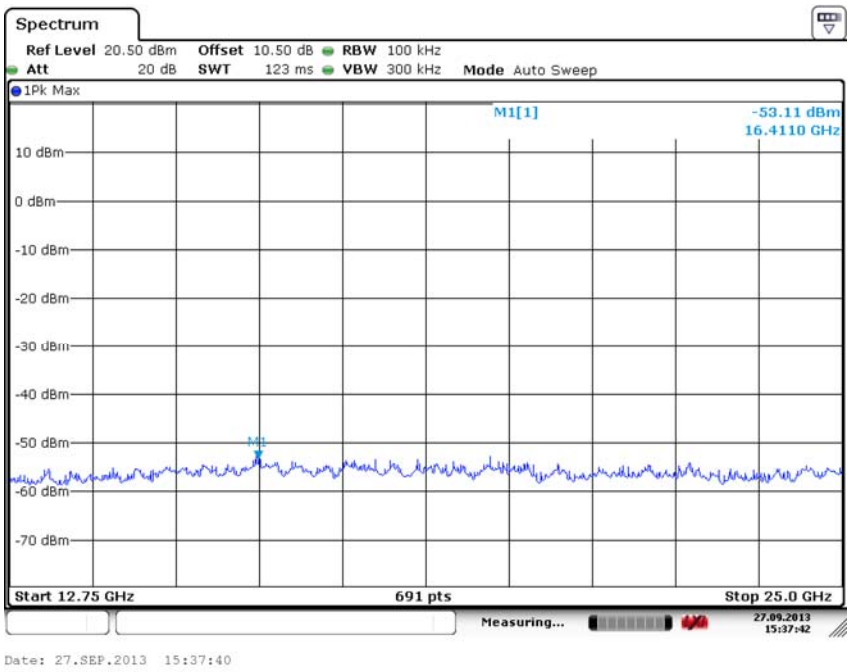
Carrier frequency (MHz): 2467
Channel No.:12
Test Mode: 802.11n(HT20)



Date: 29.DEC.2013 15:34:57



Date: 29.DEC.2013 15:40:27



Carrier frequency (MHz): 2472
Channel No.:13
Test Mode: 802.11n(HT20)

Carrier frequency (MHz): 2422
Channel No.:3
Test Mode: 802.11n(HT40)

Frequency MHz	Corrected measurement value dBm	Reference value dBm	Limit dBm	Delta dB
---	---	---	---	---
---	---	---	---	---

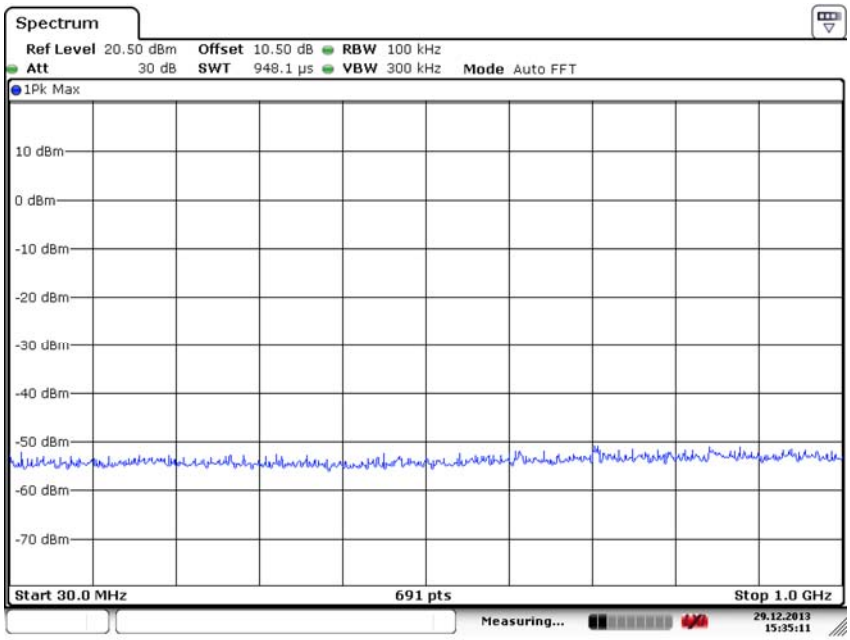
Carrier frequency (MHz): 2437
Channel No.:6
Test Mode: 802.11n(HT40)

Frequency MHz	Corrected measurement value dBm	Reference value dBm	Limit dBm	Delta dB
---	---	---	---	---
---	---	---	---	---

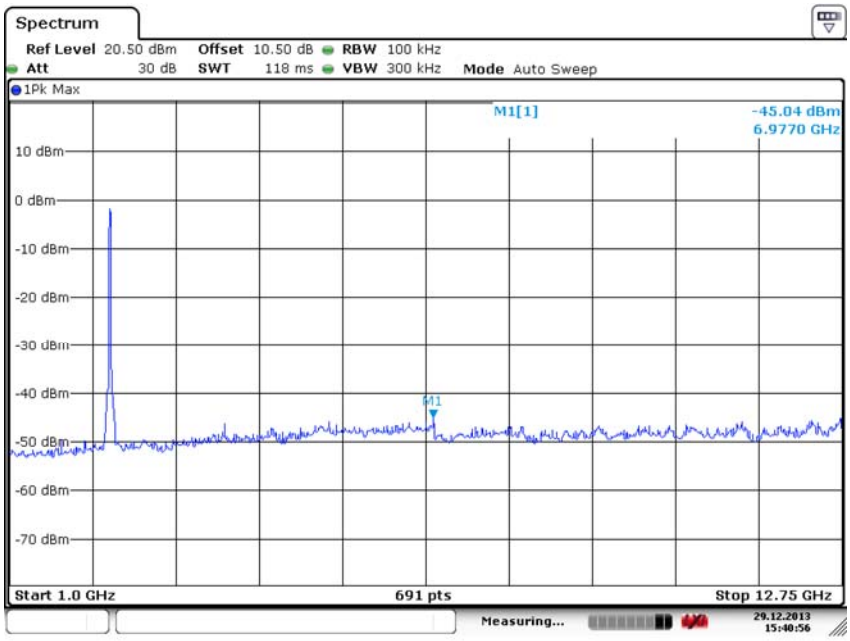
Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11n(HT40)

Frequency MHz	Corrected measurement value dBm	Reference value dBm	Limit dBm	Delta dB
---	---	---	---	---
---	---	---	---	---

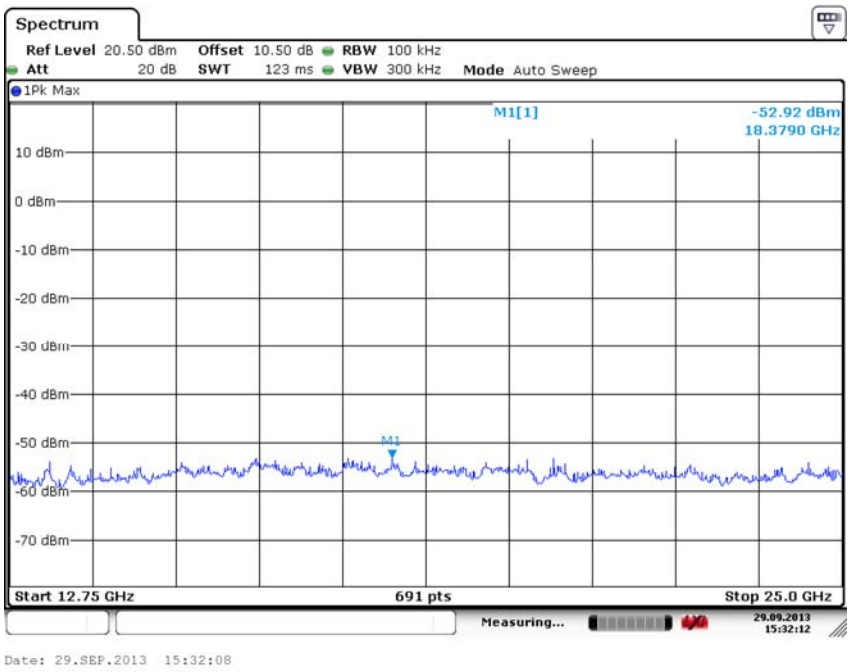
Note: The Reference value see 2.2.6 Band edge compliance



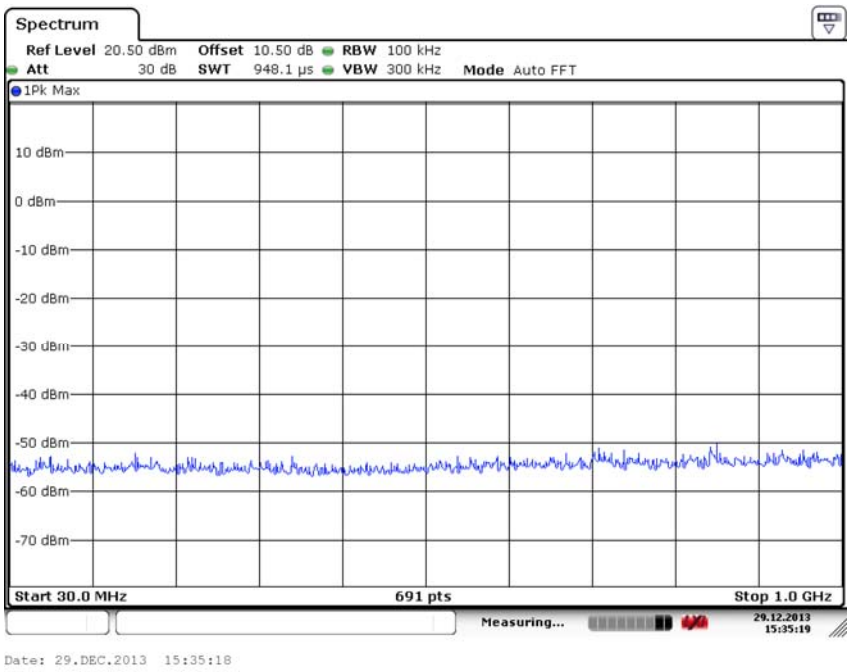
Date: 29.DEC.2013 15:35:11

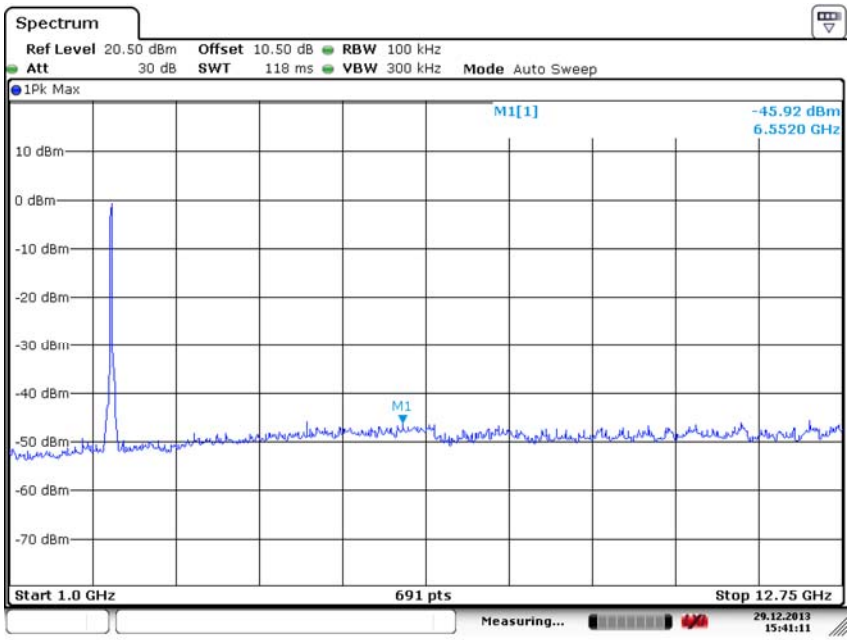


Date: 29.DEC.2013 15:40:55

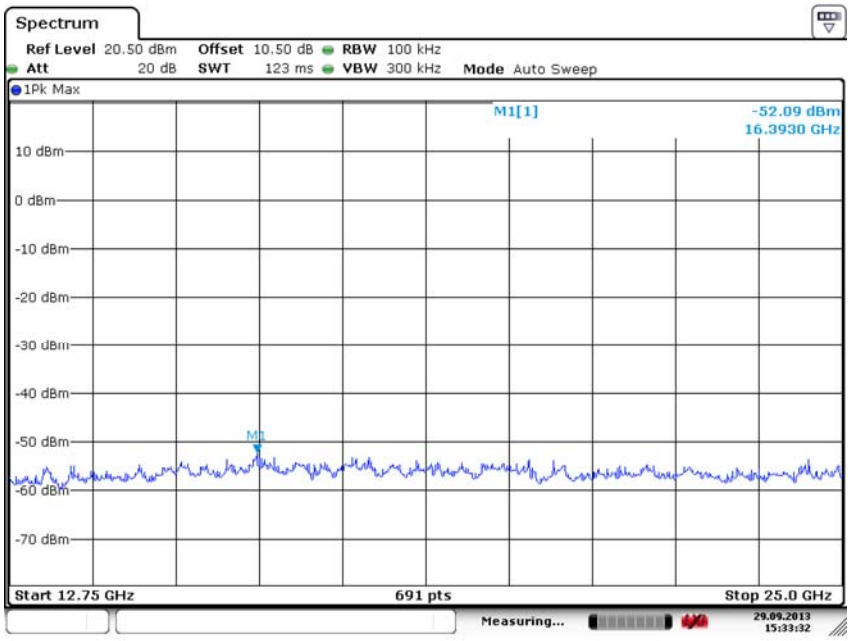


Carrier frequency (MHz): 2422
Channel No.:3
Test Mode: 802.11n(HT40)



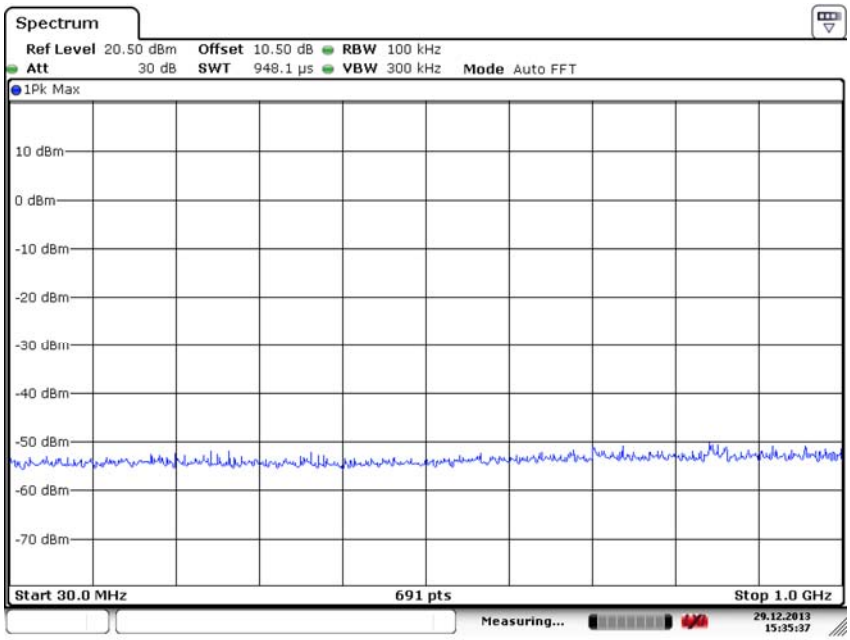


Date: 29.DEC.2013 15:41:11

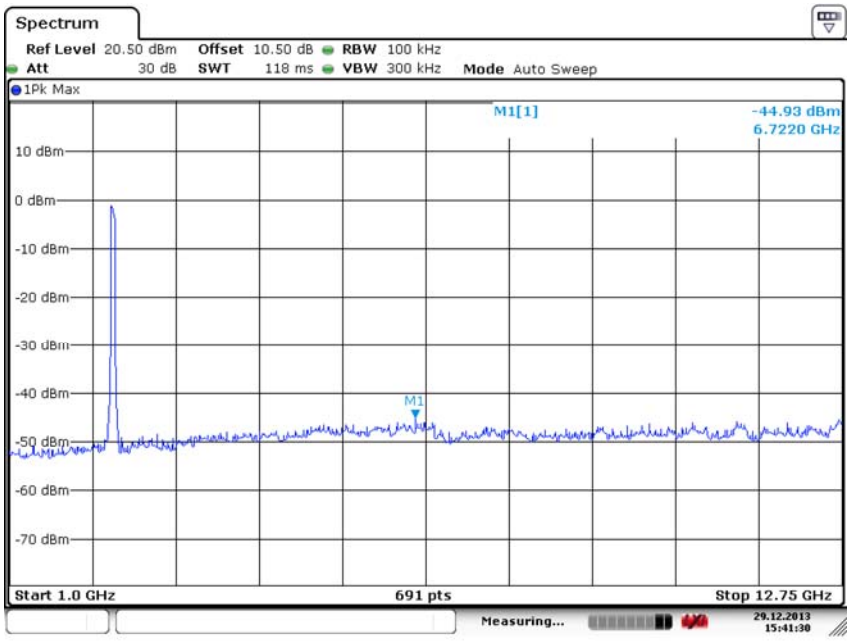


Date: 29.SEP.2013 15:33:28

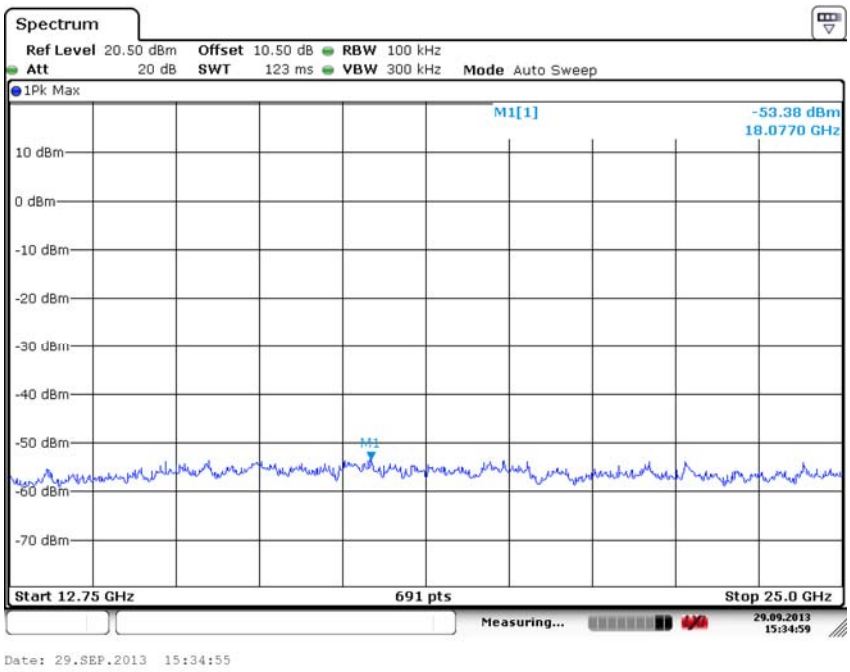
Carrier frequency (MHz): 2437
Channel No.:6
Test Mode: 802.11n(HT40)



Date: 29.DEC.2013 15:35:37



Date: 29.DEC.2013 15:41:29



Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11n(HT40)

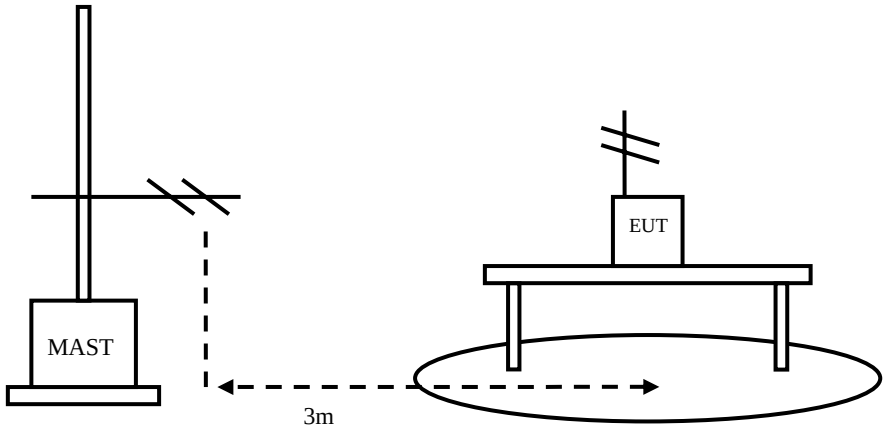
2.2.5 Spurious Radiated Emissions

2.2.5.1 Ambient condition

Temperature	Relative humidity	Pressure
20°C	35%	101.4kPa

2.2.5.2 Test Description

The measurement is made according to ANSI C63.10-2009.
The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna.
The radiated emissions measurements were made in a typical installation configuration.
Then start the test software ES-K1. Sweep the whole frequency band through the range from 30MHz to 1GHz or above, using receive log period antenna HL562 or Ridge horn antenna HF906.
During the test, the height of receive antenna shall be moved from 1 to meters, and the antenna shall be performed under horizontal and vertical polarization. The turn table shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The results (reference to 2.2.5.4) shall be showed the worst case of the three orthogonal axes.
The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing.



2.2.5.3 Test limit

FCC Part15.247(d):
... In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

FCC Part15.209:
Radiated Emission Limits

Frequency of Emission(MHz)	Limits	
	Detector	Unit (dBμV/m)
30～88	Quasi-peak	40.0
88～216	Quasi-peak	43.5
216～960	Quasi-peak	46.0
960～1000	Quasi-peak	54.0
1000～5th harmonic of the highest frequency or 40GHz, whichever is lower	Average	54.0
	Peak	74.0

FCC Part15.35(b):
..., there is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit....

Used conversion factor: Limit (dBμV/m) = 20 log (Limit (μV/m)/1μV/m)

2.2.5.4 Test result

A “reference path loss” is established and the A_{Rpl} is the attenuation of “reference path loss”, and including the gain of receive antenna, the gain of the preamplifier, the cable loss.
The measurement results are obtained as described below:
Result= P_{mea} + A_{Rpl}
The worst case attitude: The mobile lay down.

For 802.11b

Frequency(MHz)	Result(dBuV/m)	A_{Rpl} (dB)	P_{mea} (dBuV/m)	Polarity
41.08	25.06	15.00	10.06	Vertical
71.94	19.72	7.00	12.72	Vertical
84.15	24.60	7.90	16.70	Horizontal
177.76	20.18	7.90	12.28	Horizontal
458.32	22.79	16.50	6.29	Vertical
581.16	24.56	19.20	5.36	Vertical
820.64	27.43	22.90	4.53	Vertical
877.76	33.52	23.60	9.92	Vertical

For 802.11g

Frequency(MHz)	Result(dBuV/m)	A_{Rpl} (dB)	P_{mea} (dBuV/m)	Polarity
41.36	24.97	14.80	10.17	Vertical
48.80	20.07	9.70	10.37	Vertical
84.15	24.32	7.90	16.42	Vertical
301.20	23.25	11.80	11.45	Vertical
434.27	24.08	15.90	8.18	Vertical
607.21	24.49	19.30	5.19	Horizontal
820.64	27.65	22.90	4.75	Vertical
877.76	30.95	23.60	7.35	Horizontal

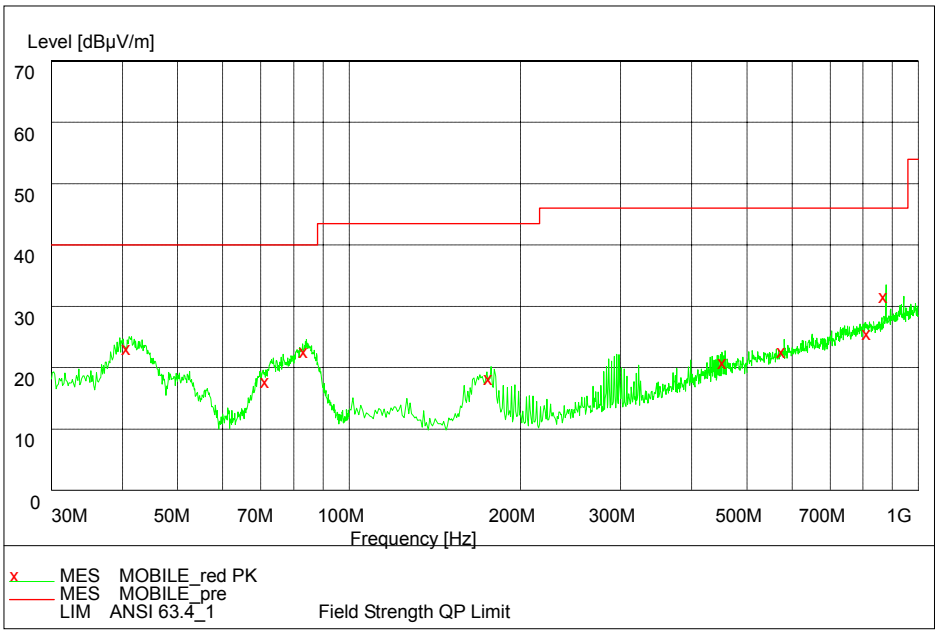
For 802.11n(HT20)

Frequency(MHz)	Result(dBuV/m)	A_{Rpl} (dB)	P_{mea} (dBuV/m)	Polarity
30.18	28.40	11.60	16.80	Vertical
59.94	29.50	10.50	19.00	Vertical
85.38	24.50	15.50	9.00	Vertical
85.74	27.20	12.80	14.40	Vertical
100.12	31.50	12.00	19.50	Vertical
184.24	26.10	17.40	8.70	Horizontal
697.64	26.80	19.20	7.60	Vertical
907.16	26.90	23.10	3.80	Horizontal

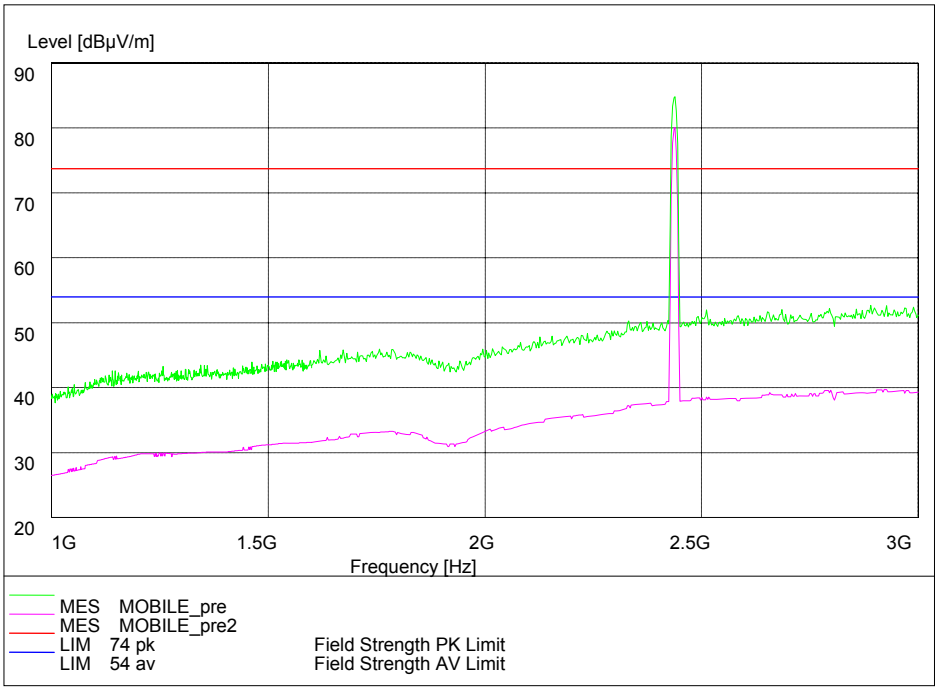
For 802.11n(HT40)

Frequency(MHz)	Result(dBuV/m)	A_{Rpl} (dB)	P_{mea} (dBuV/m)	Polarity
40.80	28.40	11.60	16.80	Vertical
85.26	26.00	14.00	12.00	Vertical
99.42	36.30	7.20	29.10	Vertical
184.24	26.20	17.30	8.90	Vertical
560.24	29.10	16.90	12.20	Vertical
940.04	29.40	24.60	4.80	Horizontal

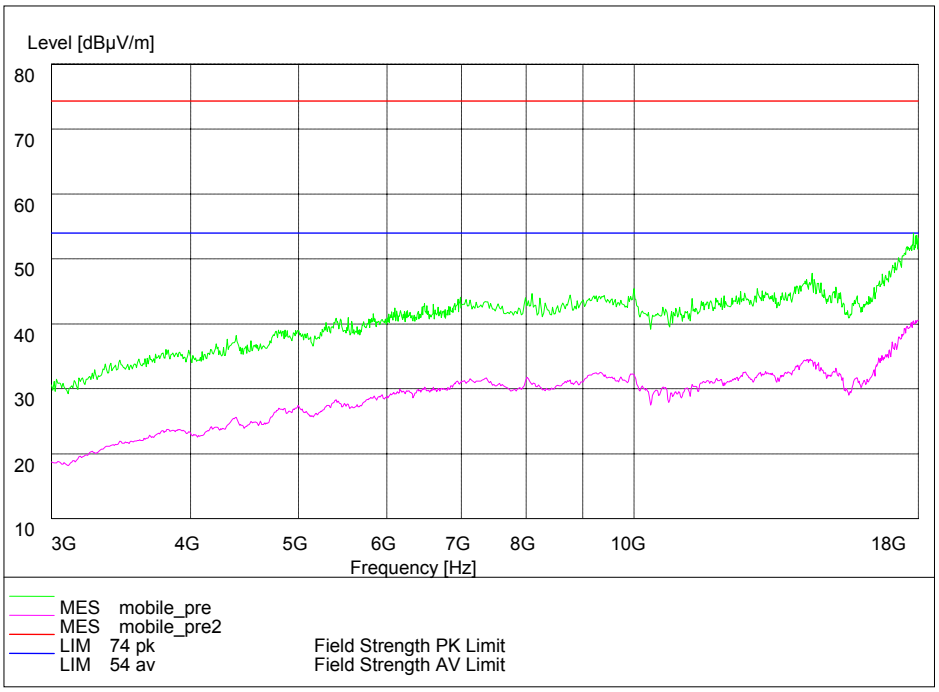
Carrier frequency (MHz): 2437
Channel No.:6



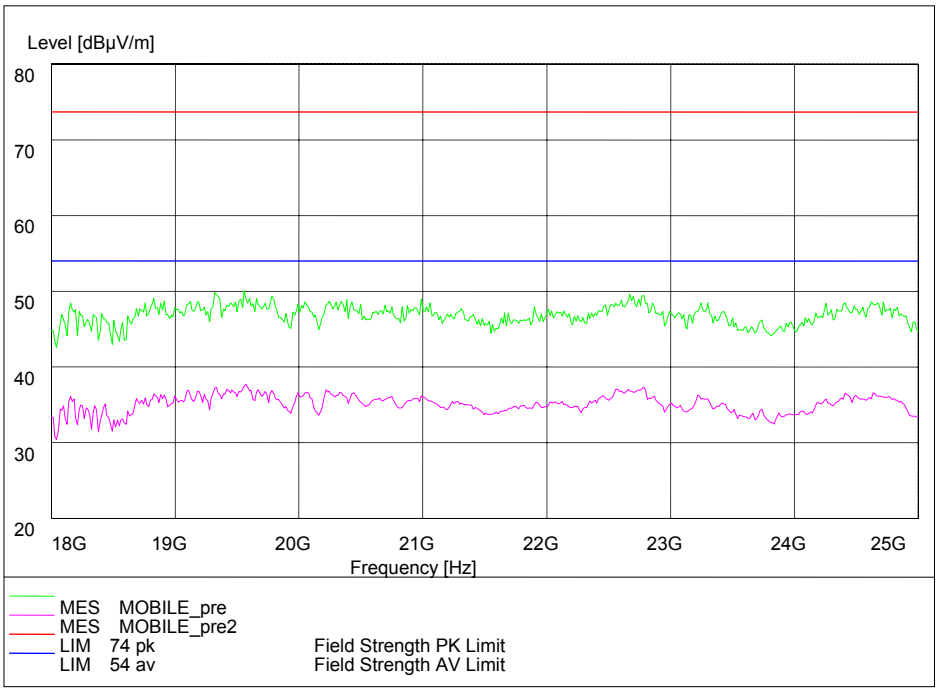
Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11b



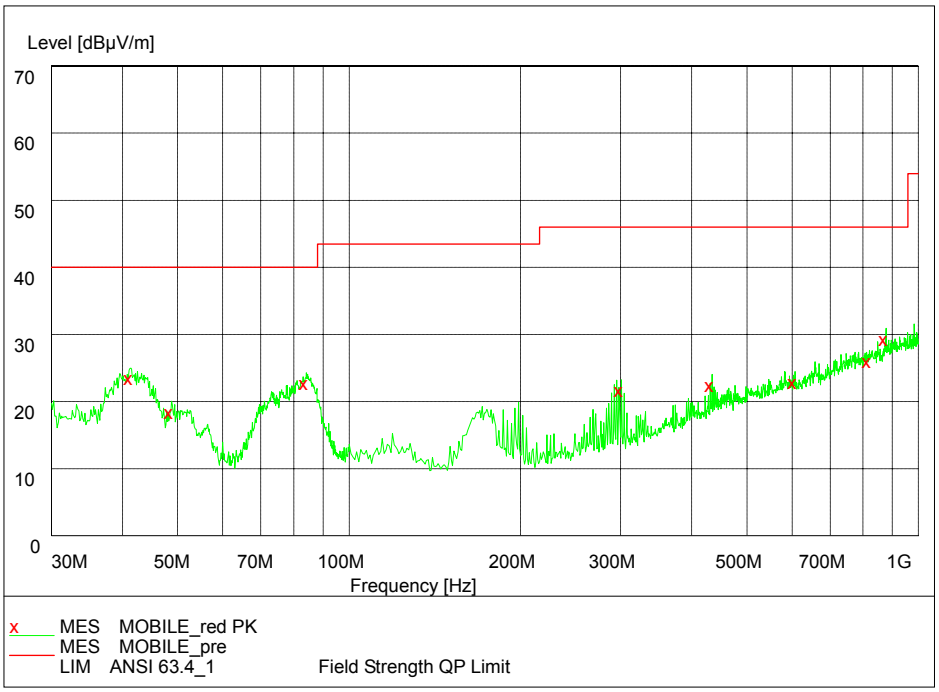
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



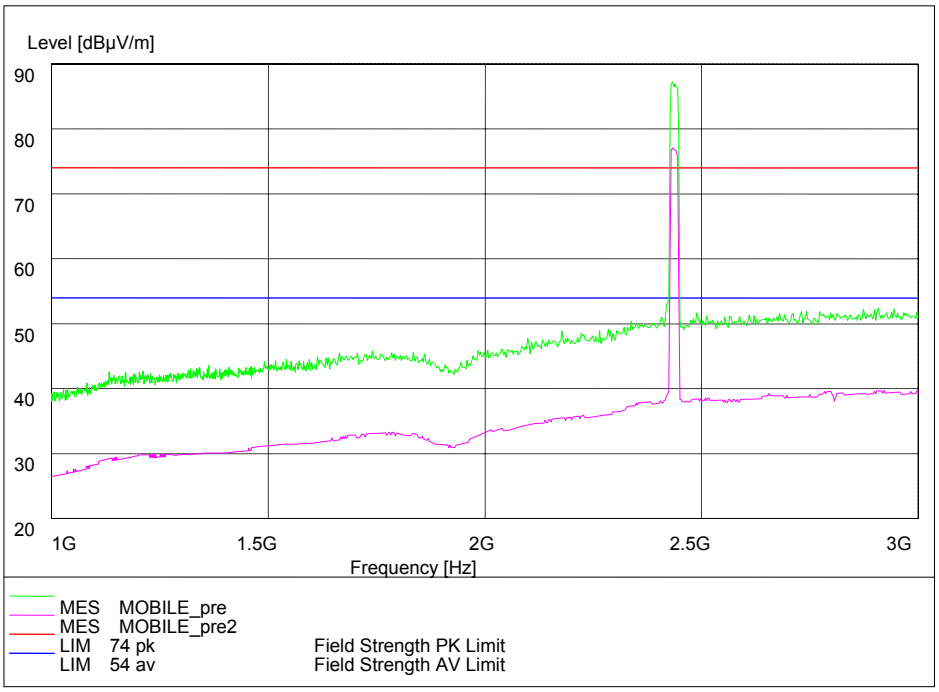
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



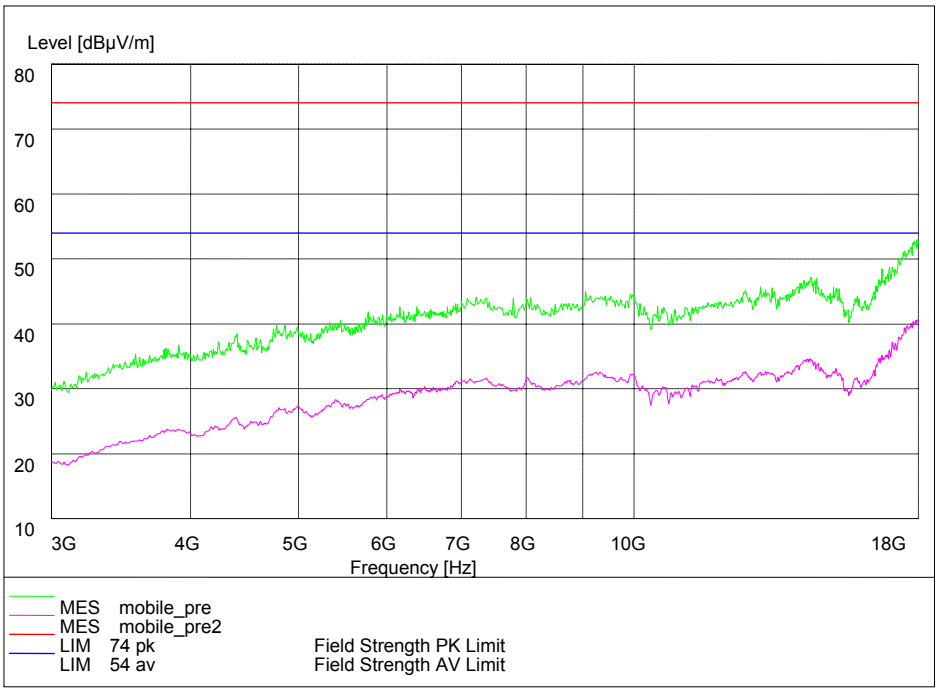
Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



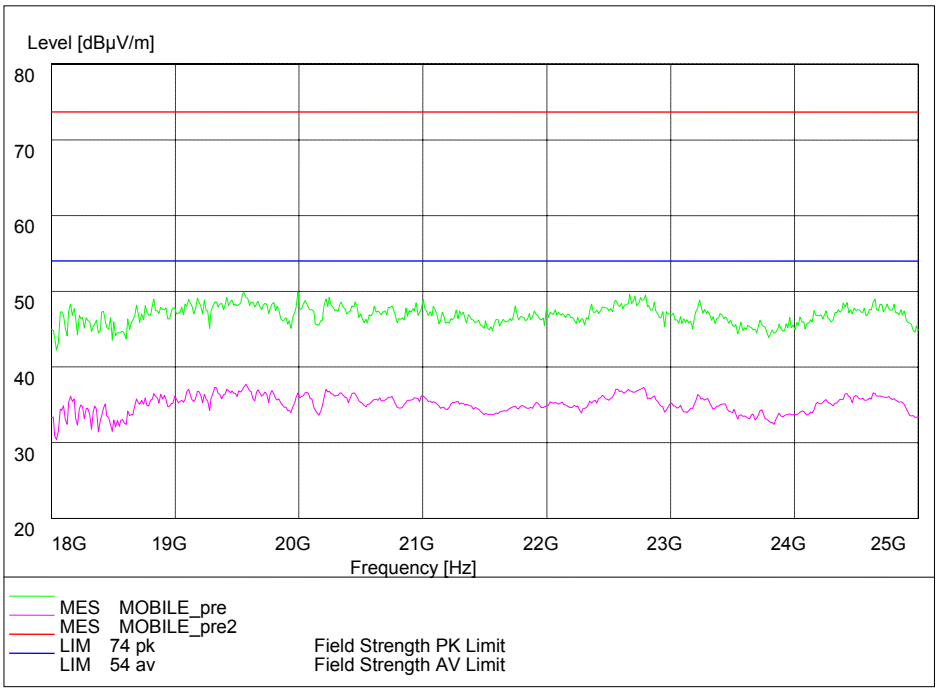
Frequency Range: 30MHz -1GHz
Detector: QP mode
Modulation type: 802.11g



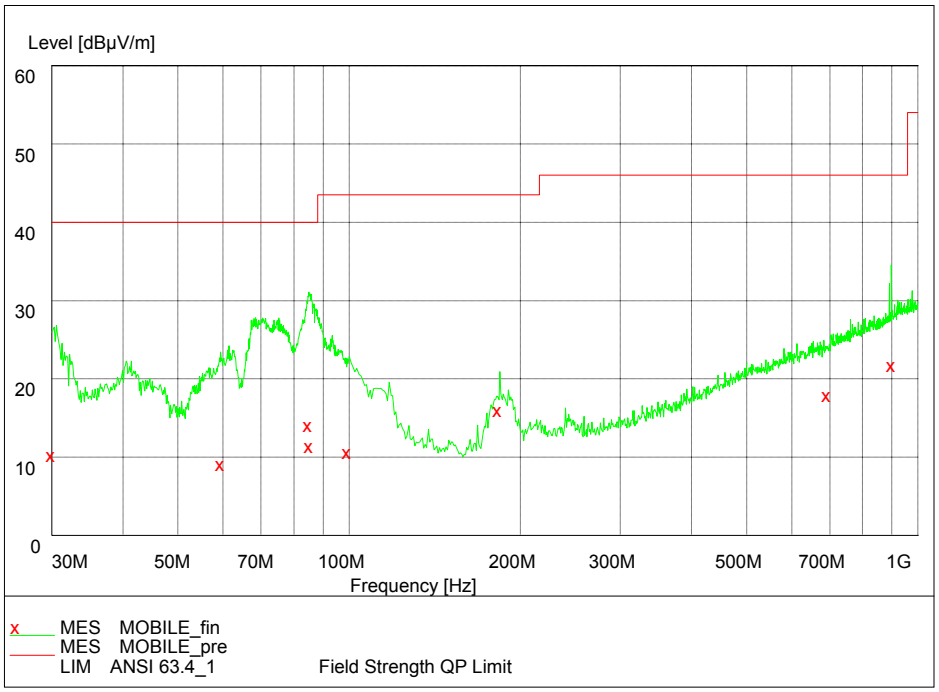
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



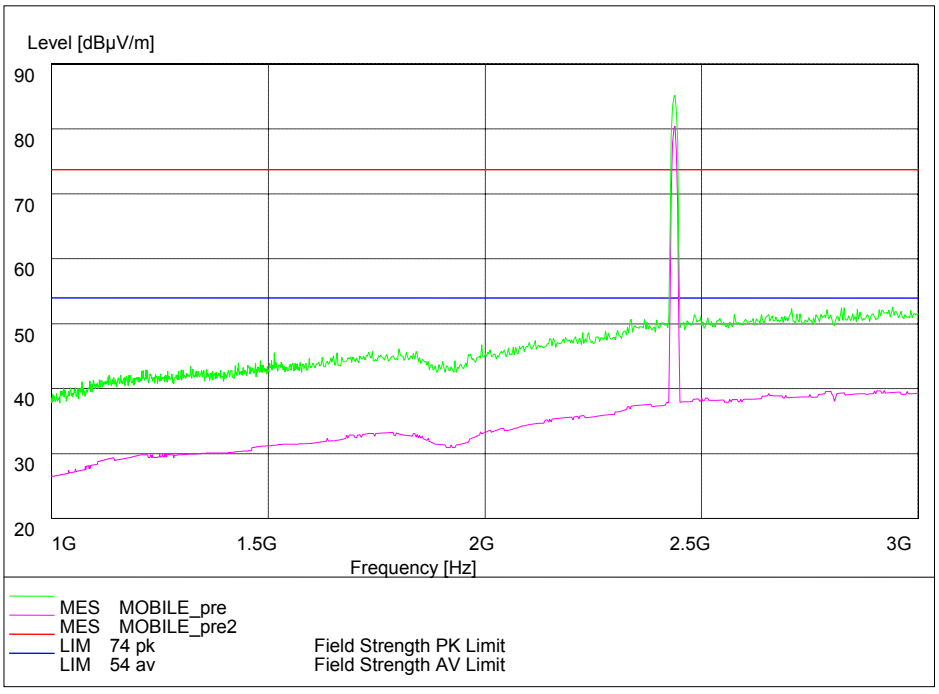
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



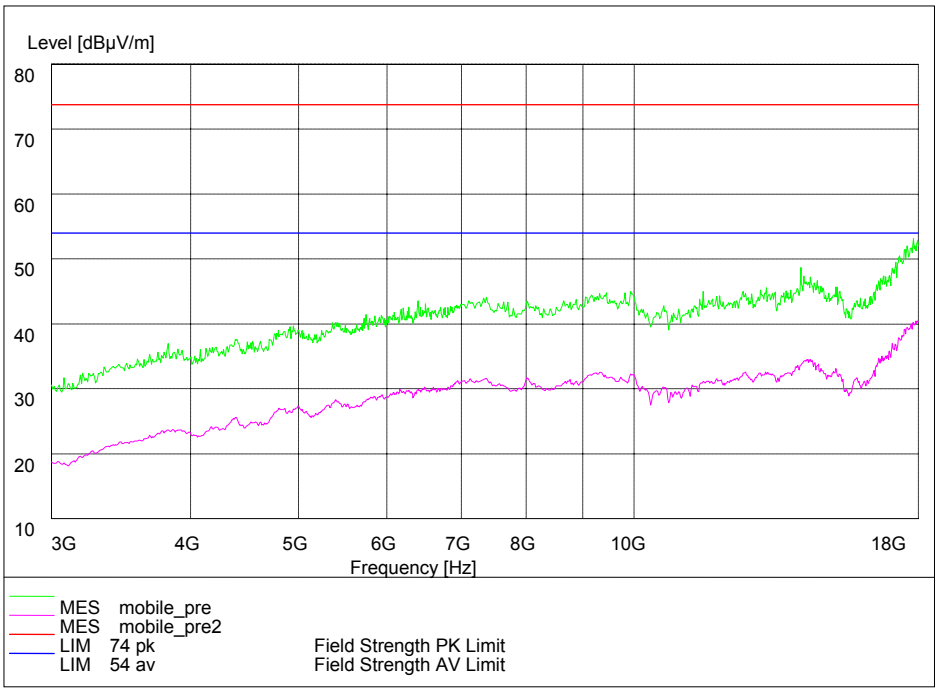
Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



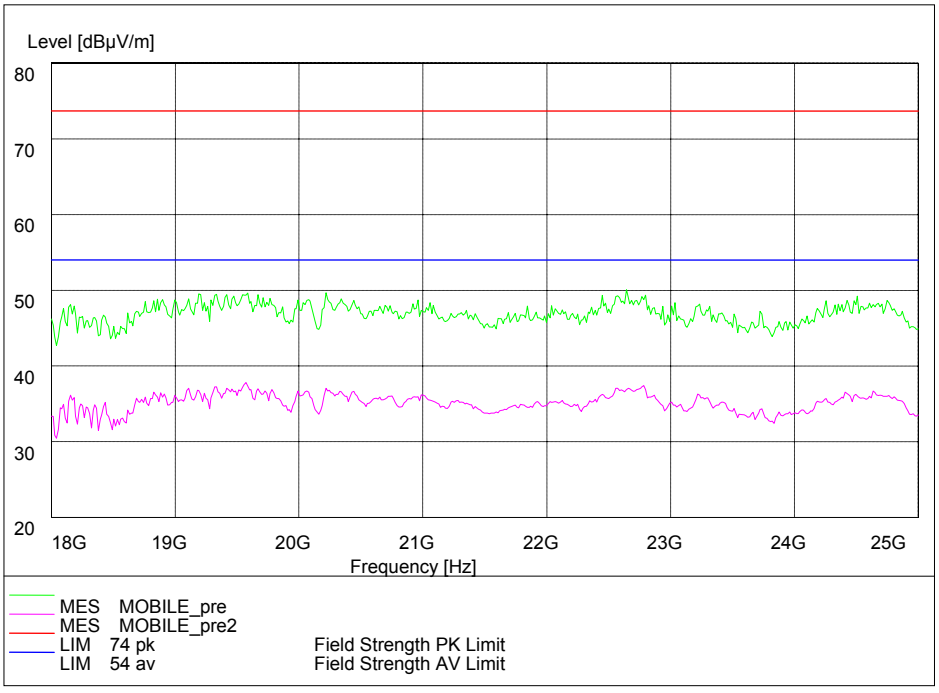
Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11n(HT20)



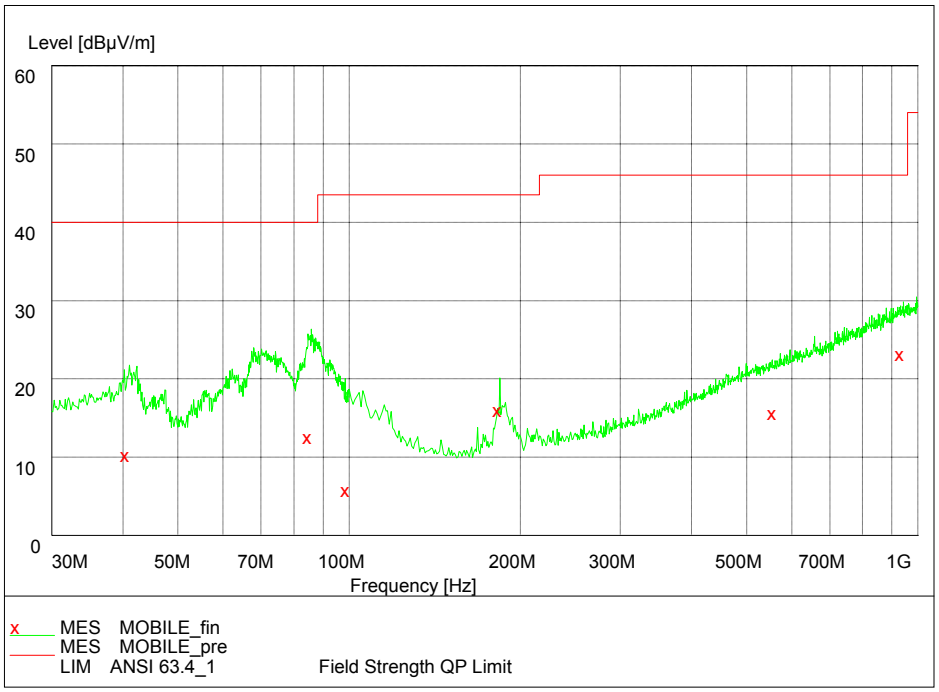
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)



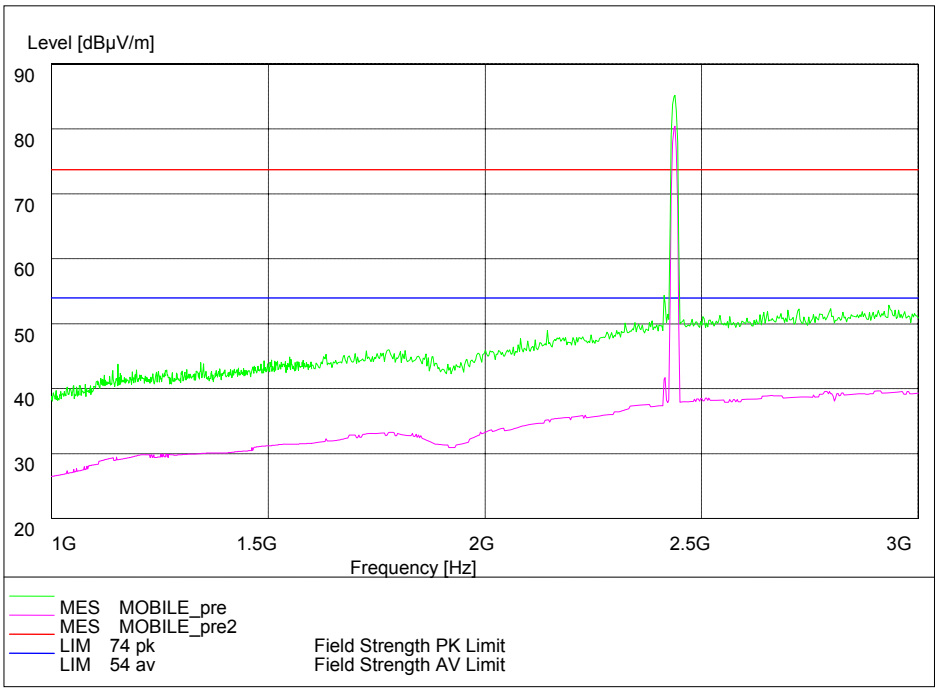
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)



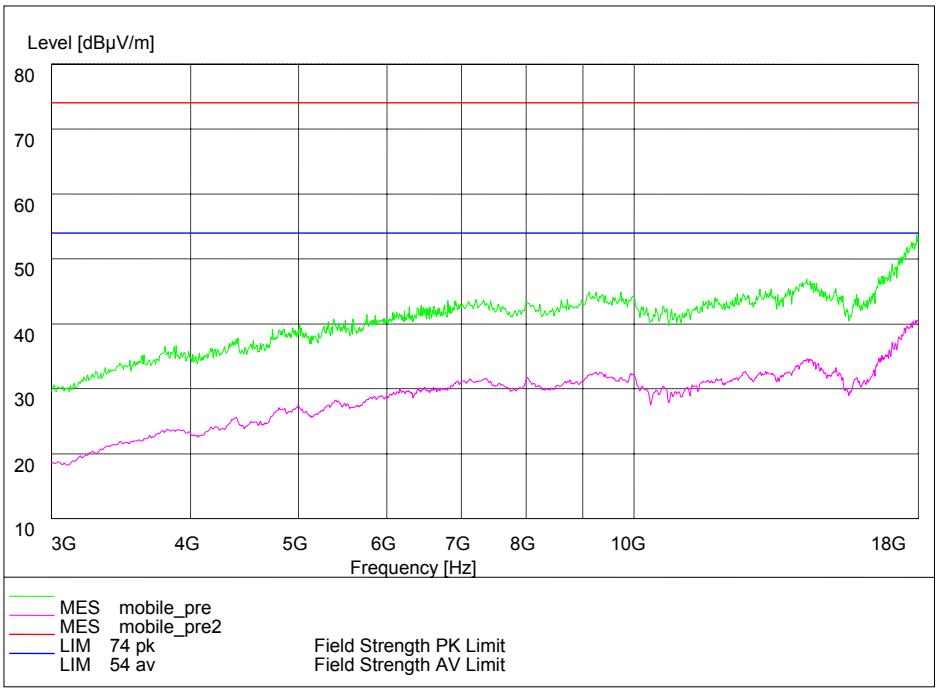
Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)



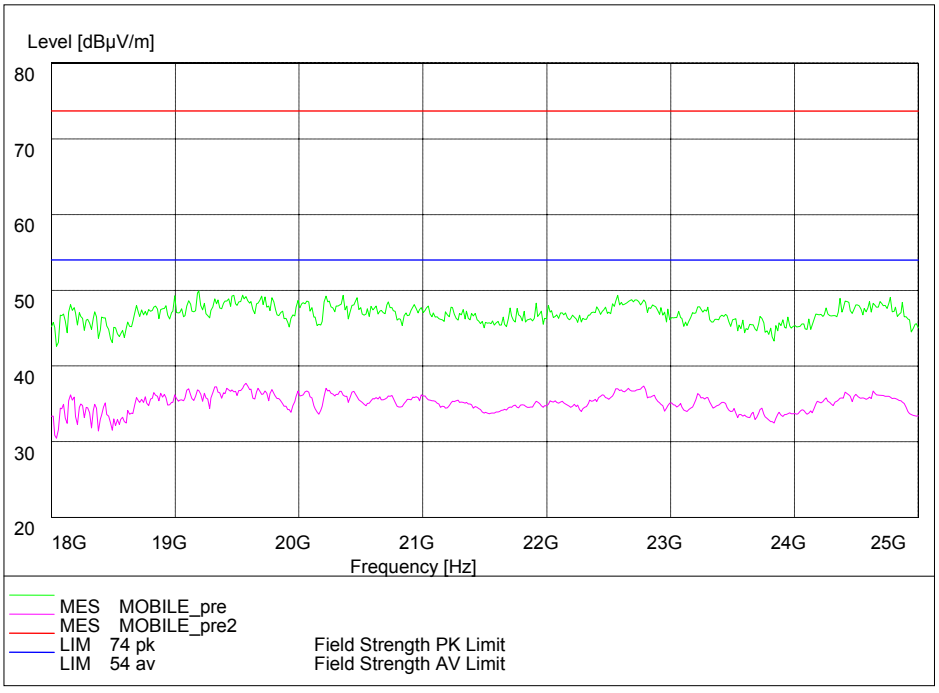
Frequency Range: 30MHz -1GHz
Detector: QP mode
Modulation type: 802.11n(HT40)



Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)



Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)



Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)

2.2.6 Band Edge Compliance

2.2.6.1 Ambient condition

Temperature	Relative humidity	Pressure
22°C	40%	101.1kPa

2.2.6.2 Test Description

The measurement is made according to ANSI C63.10-2009.

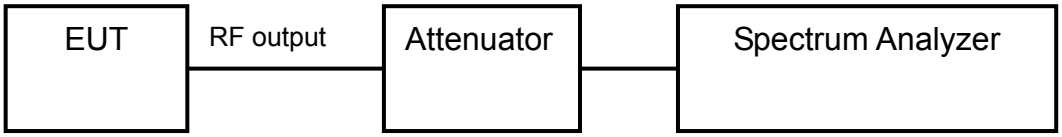
2.2.6.2.1 RF Conducted Measurement

The Equipment Under Test (EUT) was set up in a shielded room to perform the spurious emissions measurements.

The EUT was connected to the spectrum analyzer and WiFi test set via a power splitter with a known loss.

For the first measurement the EUT is set to transmit on the lowest channel (2412 MHz). The lower band edge is 2390 MHz.
Analyzer settings:
- Detector: Peak
- RBW= 100 kHz
- VBW= 300 kHz

For the second measurement the EUT is set to transmit on the highest channel (2472MHz). The higher band edge is 2483.5 MHz.
Analyzer settings:
- Detector: Peak
- RBW= 100 kHz
- VBW= 300 kHz



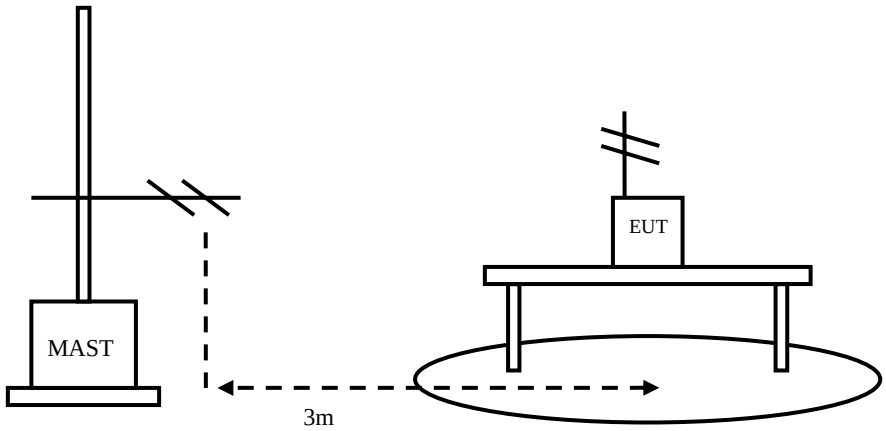
2.2.6.2.2 Radiated Measurement

The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna.

The radiated emissions measurements were made in a typical installation configuration.

During the test, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turn table shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The results (reference to 2.2.6.5) shall be showed the worst case of the three orthogonal axes.

The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing.



2.2.6.3 Test limit

FCC Part15.247(d)
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

2.2.6.4 Test result

2.2.6.4.1 RF Conducted Measurement

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11b

Frequency MHz	Measured value dBm	Reference value dBm	Limit dBm	Delta dB
2390	-45.03	8.87	-11.13	53.90

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11b

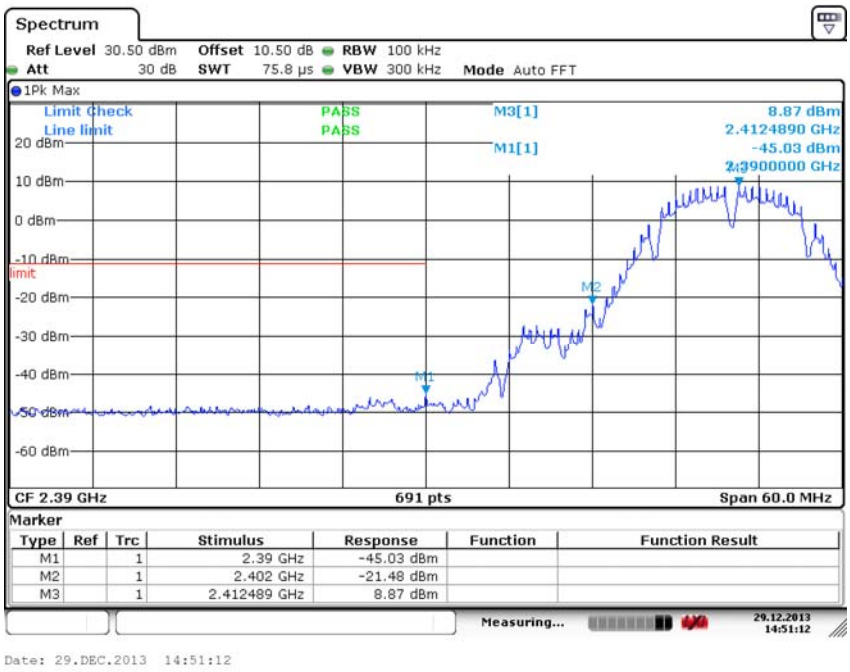
Frequency MHz	Measured value dBm	Reference value dBm	Limit dBm	Delta dB
2483.5	-47.93	9.15	-10.85	57.08

Carrier frequency (MHz): 2467
Channel No.:12
Test Mode: 802.11b

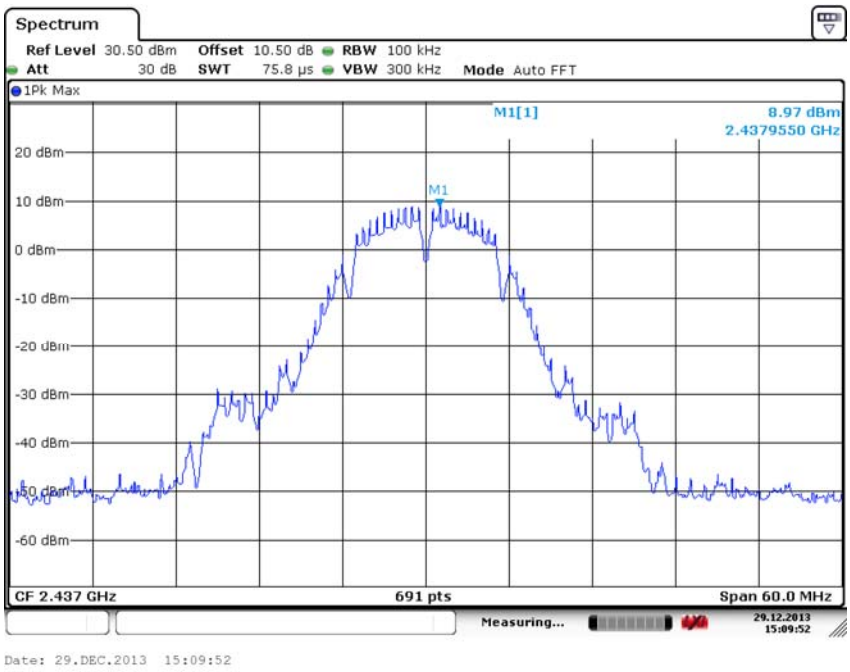
Frequency MHz	Measured value dBm	Reference value dBm	Limit dBm	Delta dB
2483.5	-49.15	3.09	-16.91	52.24

Carrier frequency (MHz): 2472
Channel No.:13
Test Mode: 802.11b

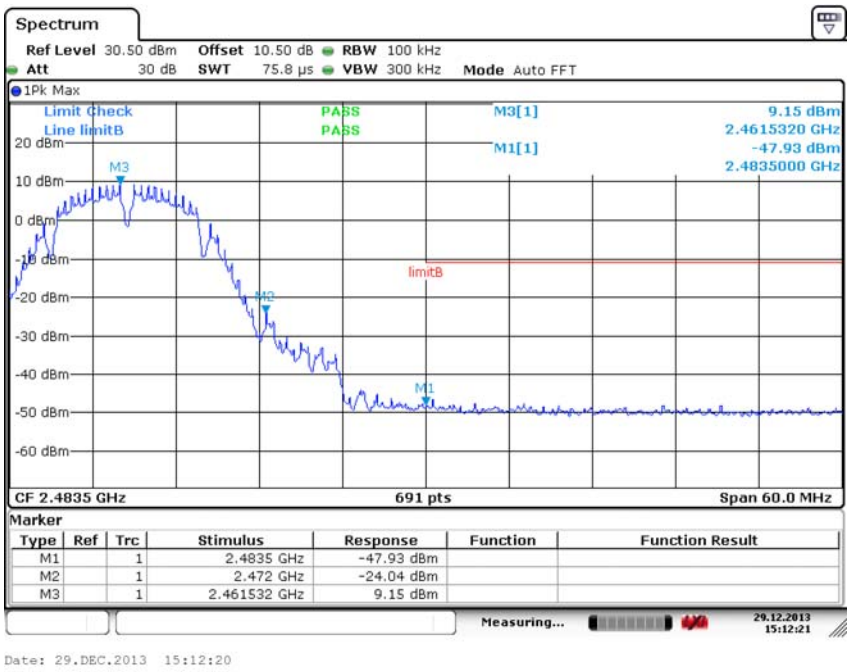
Frequency MHz	Measured value dBm	Reference value dBm	Limit dBm	Delta dB
2483.5	-49.60	1.03	-18.97	50.63



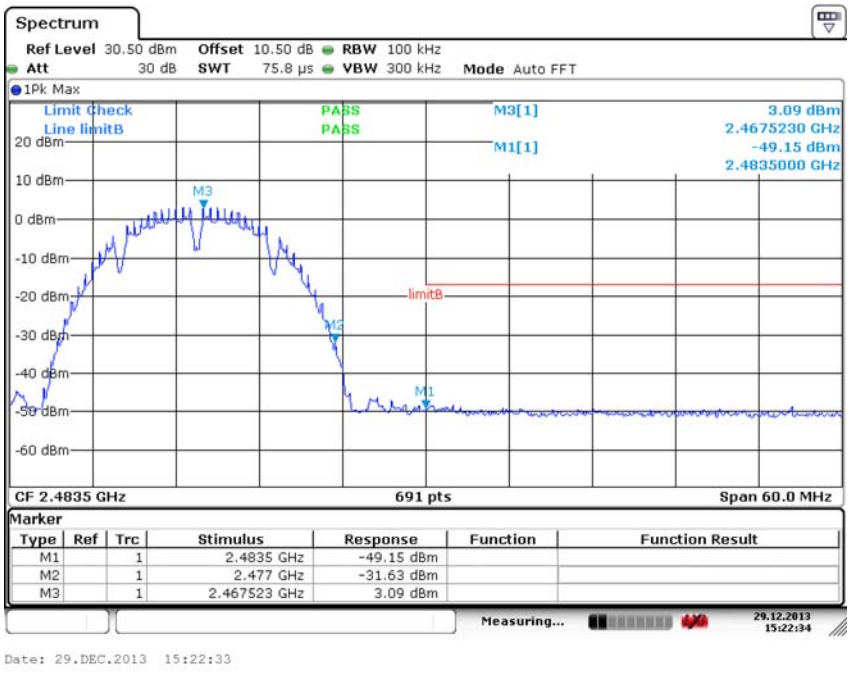
Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11b



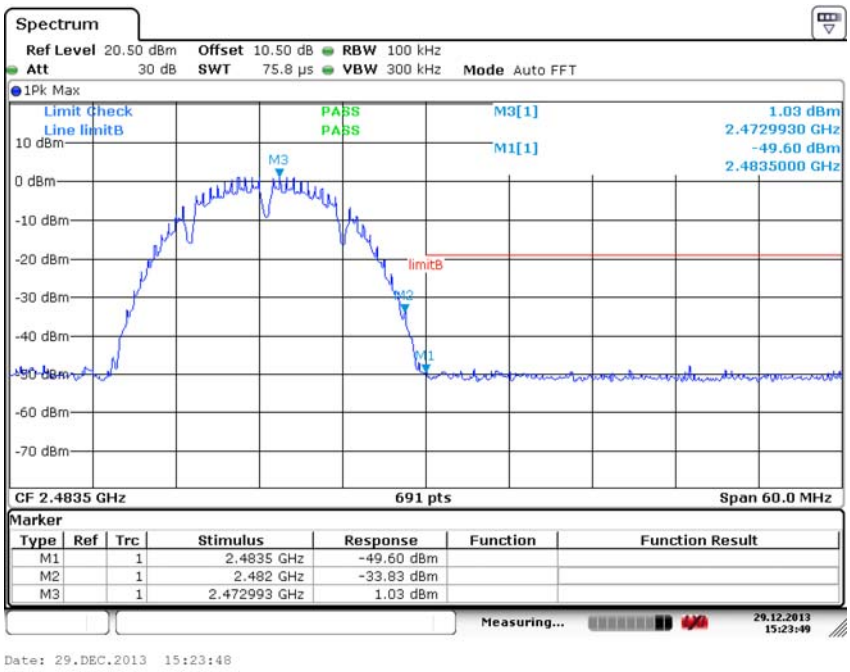
Carrier frequency (MHz): 2437
Channel No.:6
Test Mode: 802.11b



Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11b



Carrier frequency (MHz): 2467
Channel No.:12
Test Mode: 802.11b



Carrier frequency (MHz): 2472
Channel No.:13
Test Mode: 802.11b

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11g

Frequency MHz	Measured value dBm	Reference value dBm	Limit dBm	Delta dB
2390	-39.62	4.47	-15.53	44.09

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11g

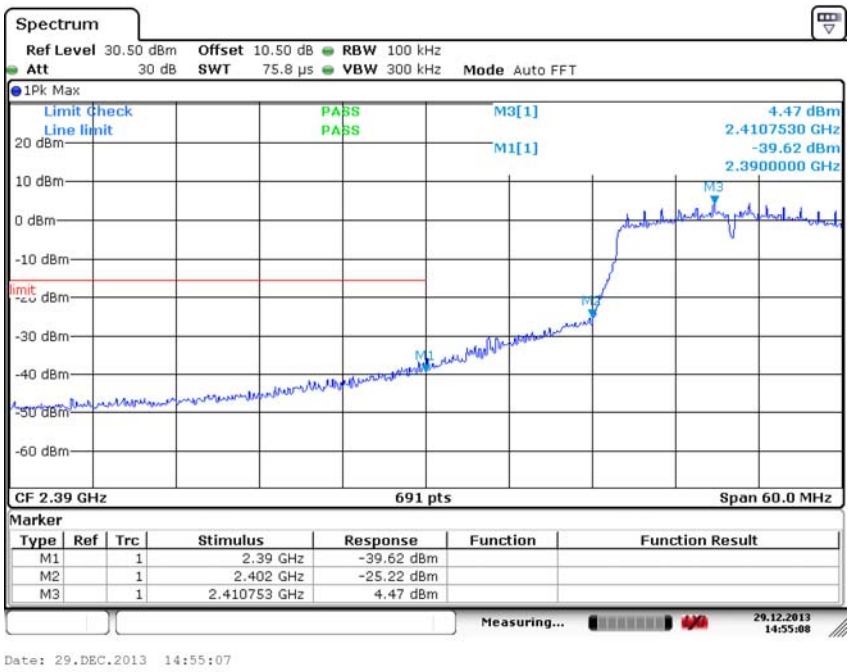
Frequency MHz	Measured value dBm	Reference value dBm	Limit dBm	Delta dB
2483.5	-34.90	4.83	-15.17	39.73

Carrier frequency (MHz): 2467
Channel No.:12
Test Mode: 802.11g

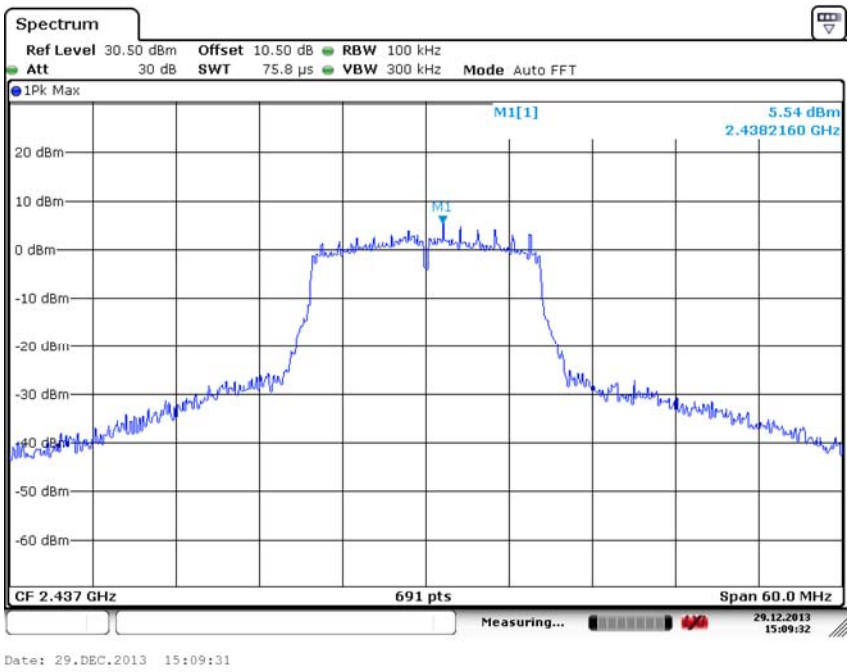
Frequency MHz	Measured value dBm	Reference value dBm	Limit dBm	Delta dB
2483.5	-41.23	0.91	-19.09	42.14

Carrier frequency (MHz): 2472
Channel No.:13
Test Mode: 802.11g

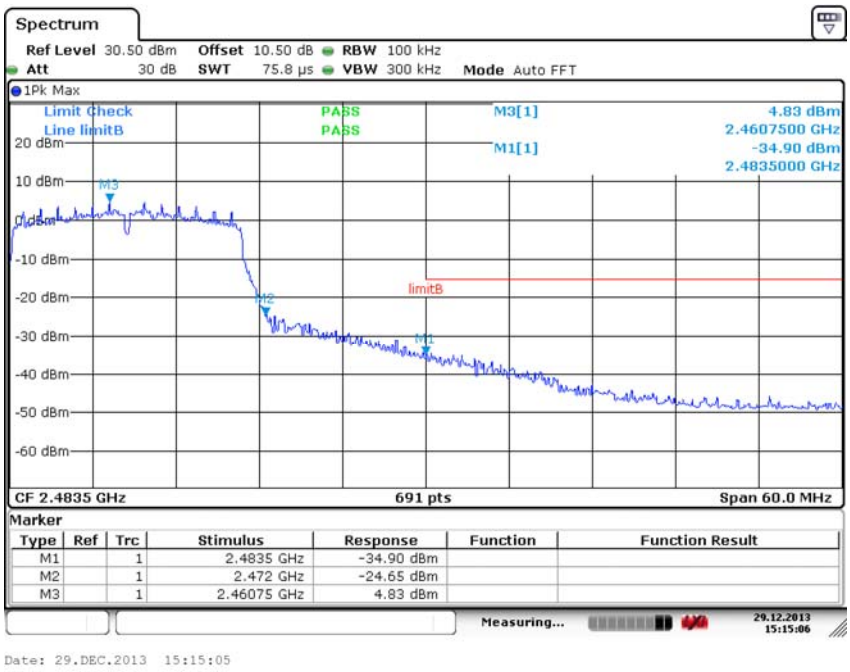
Frequency MHz	Measured value dBm	Reference value dBm	Limit dBm	Delta dB
2483.5	-44.46	-1.17	-21.17	43.29



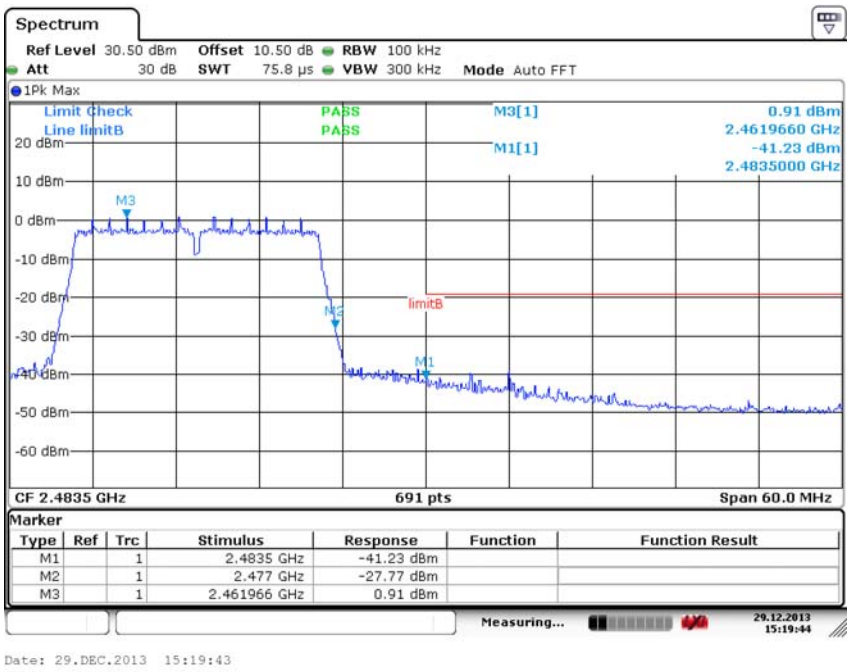
Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11g



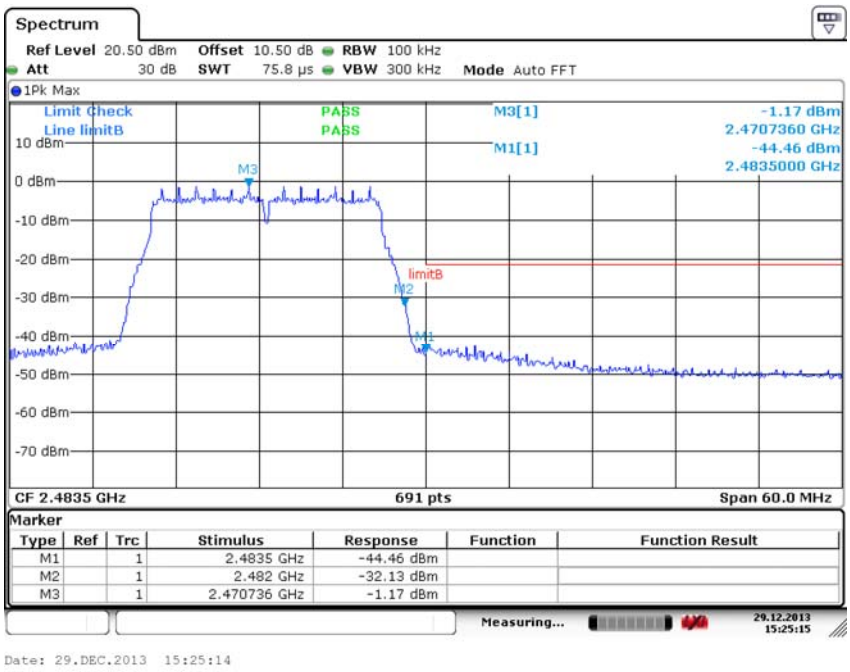
Carrier frequency (MHz): 2437
Channel No.:6
Test Mode: 802.11g



Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11g



Carrier frequency (MHz): 2467
Channel No.:12
Test Mode: 802.11g



Carrier frequency (MHz): 2472
Channel No.:13
Test Mode: 802.11g

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11n(HT20)

Frequency MHz	Measured value dBm	Reference value dBm	Limit dBm	Delta dB
2390	-37.10	4.51	-15.49	41.61

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11n(HT20)

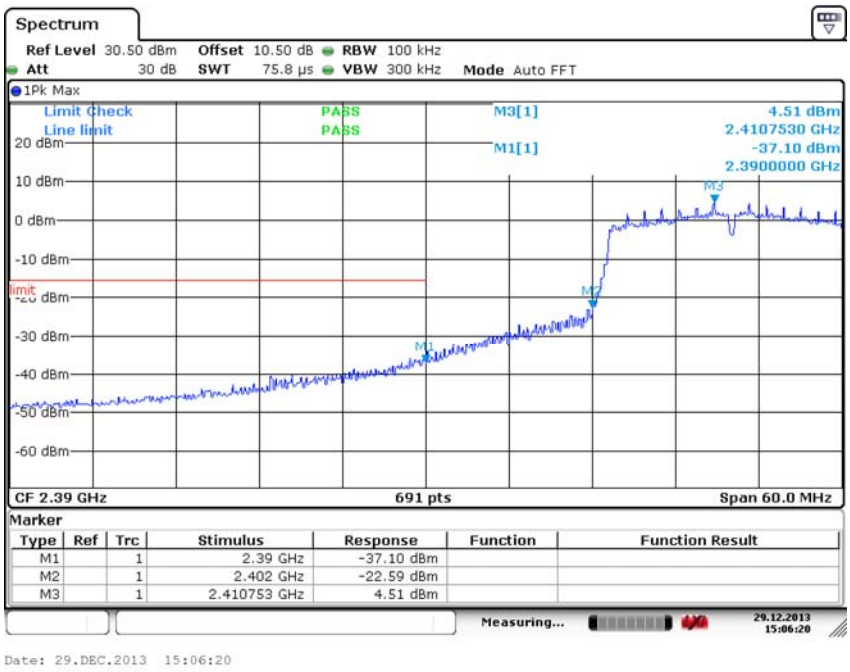
Frequency MHz	Measured value dBm	Reference value dBm	Limit dBm	Delta dB
2483.5	-35.55	4.64	-15.36	40.19

Carrier frequency (MHz): 2467
Channel No.:12
Test Mode: 802.11n(HT20)

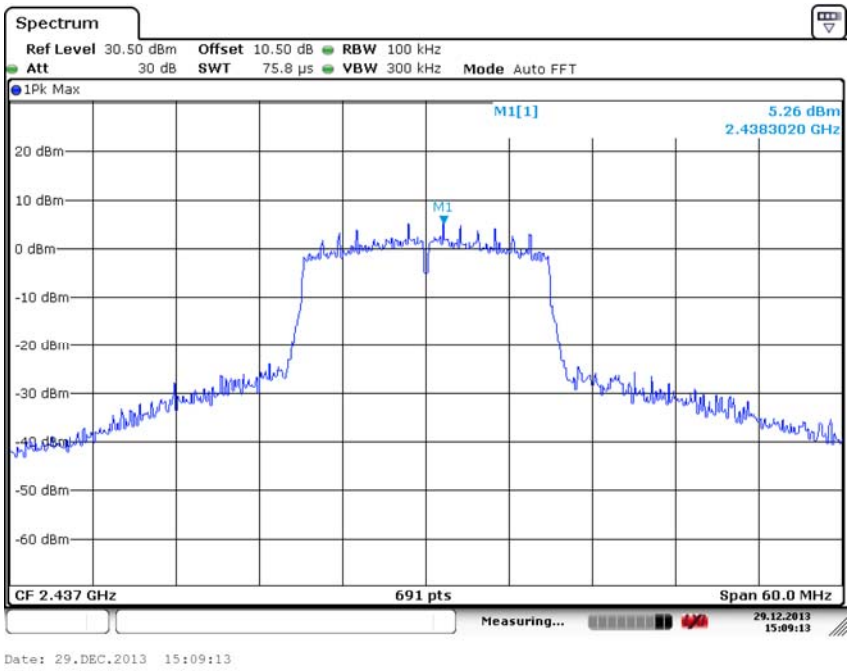
Frequency MHz	Measured value dBm	Reference value dBm	Limit dBm	Delta dB
2483.5	-41.23	0.91	-19.09	42.14

Carrier frequency (MHz): 2472
Channel No.:13
Test Mode: 802.11n(HT20)

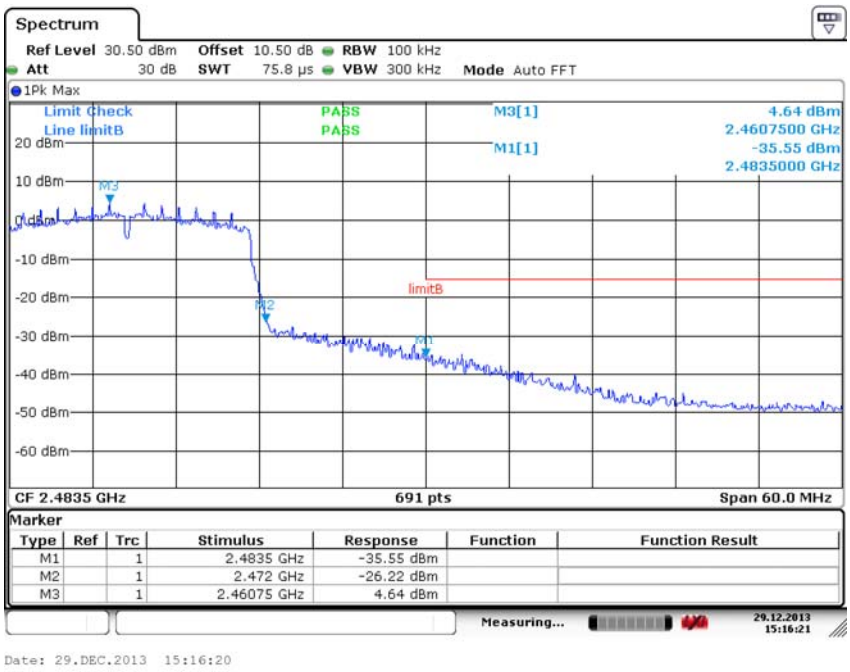
Frequency MHz	Measured value dBm	Reference value dBm	Limit dBm	Delta dB
2483.5	-42.64	-1.06	-21.06	43.70



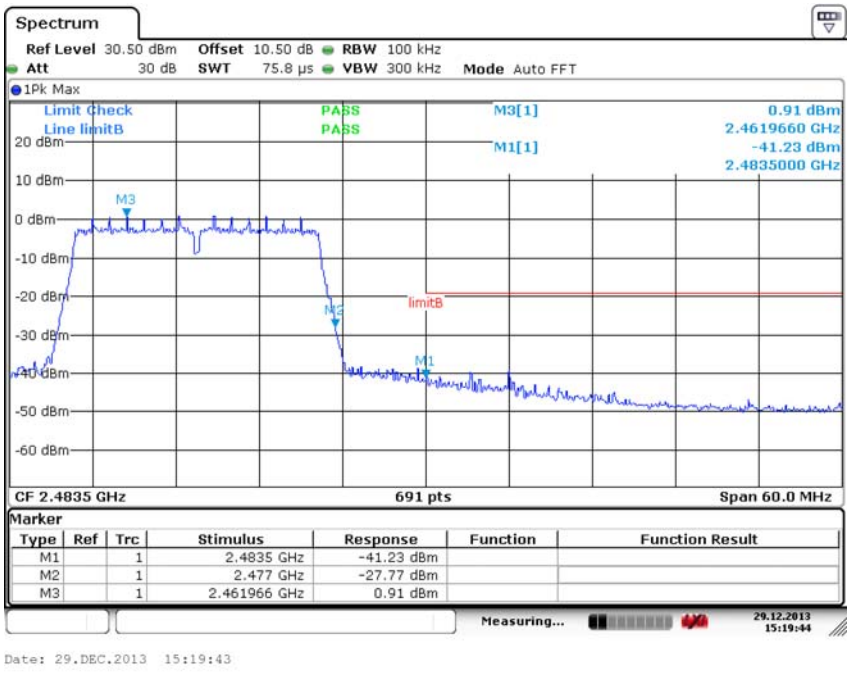
Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11n(HT20)



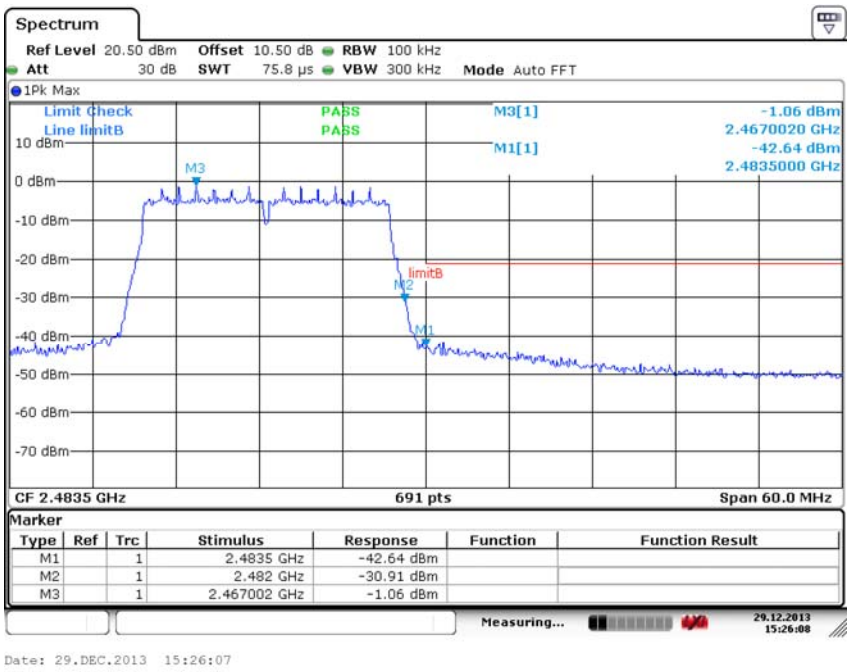
Carrier frequency (MHz): 2437
Channel No.:6
Test Mode: 802.11n(HT20)



Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11n(HT20)



Carrier frequency (MHz): 2467
Channel No.:12
Test Mode: 802.11n(HT20)



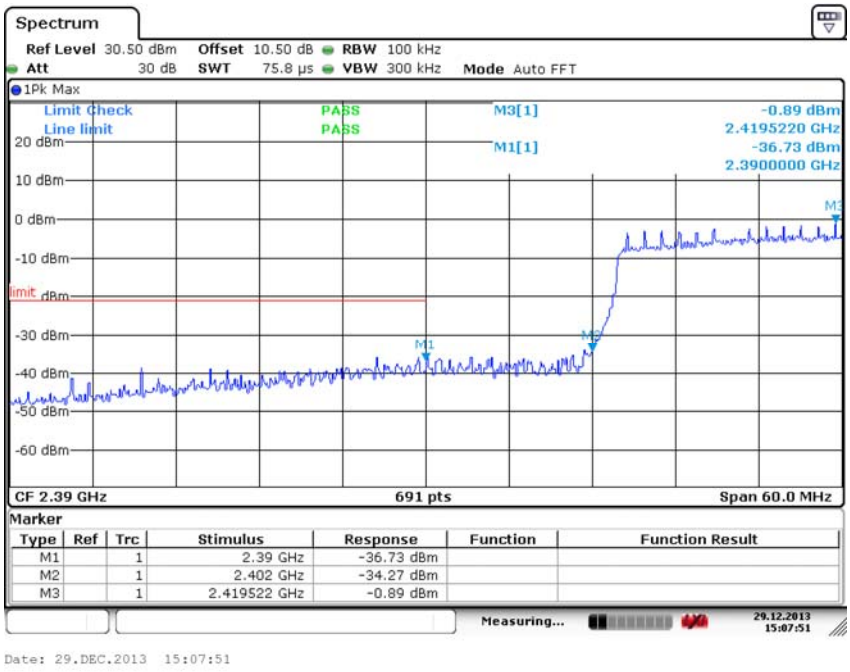
Carrier frequency (MHz): 2472
Channel No.:13
Test Mode: 802.11n(HT20)

Carrier frequency (MHz): 2422
Channel No.:3
Test Mode: 802.11n(HT40)

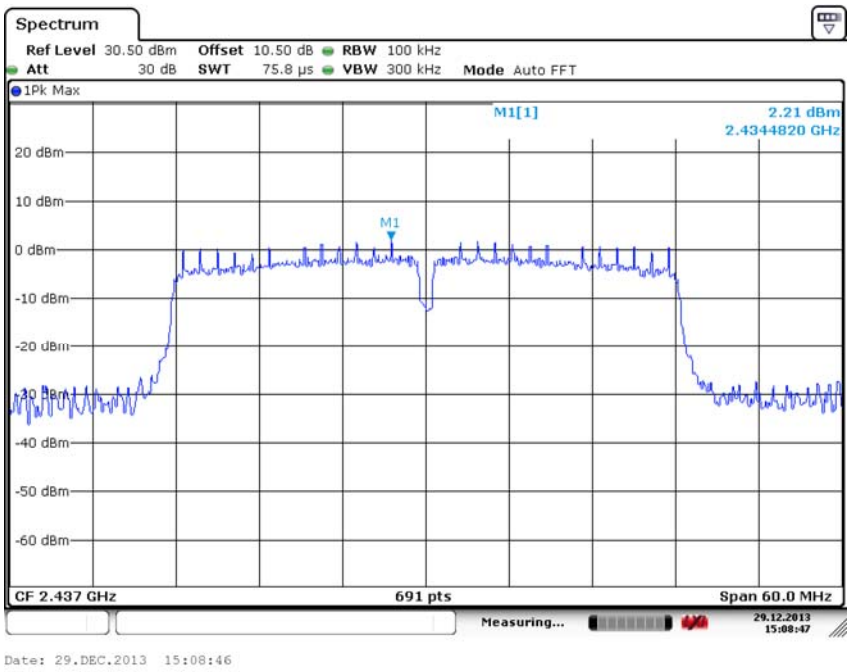
Frequency MHz	Measured value dBm	Reference value dBm	Limit dBm	Delta dB
2390	-36.73	-0.89	-20.89	35.84

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11n(HT40)

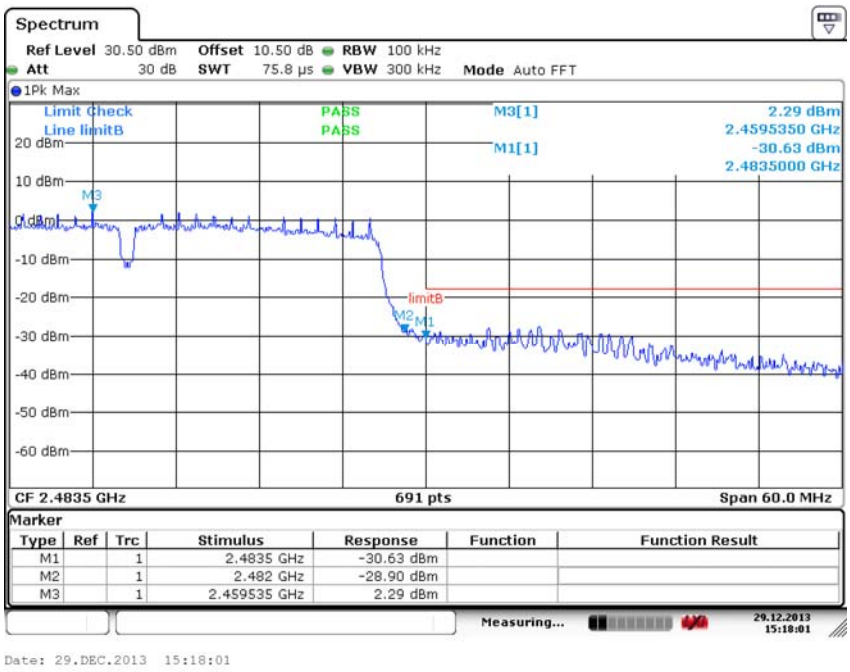
Frequency MHz	Measured value dBm	Reference value dBm	Limit dBm	Delta dB
2483.5	-30.63	2.29	-17.71	32.92



Carrier frequency (MHz): 2422
Channel No.:3
Test Mode: 802.11n(HT40)



Carrier frequency (MHz): 2437
Channel No.:6
Test Mode: 802.11n(HT40)



Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11n(HT40)

2.2.6.4.2 Radiated Emission Band Edge

The worst case attitude: The mobile lay down.

Peak detector：RBW=1MHz,VBW=3MHz,sweep time=200ms；
Average detector：RBW=1MHz,VBW=10Hz,sweep time=auto；

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11b
Polarity:Vertical
Detector: Peak

No	Frequency（MHz）	Measure Level（dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2412	100.68	66.68	N/A	N/A	8.90	25.10
2	2390	51.84	17.84	-22.16	74.00	8.90	25.10

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11b
Polarity:Horizontal
Detector: Peak

No	Frequency（MHz）	Measure Level（dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2412	94.68	60.68	N/A	N/A	8.90	25.10
2	2390	50.66	16.66	-23.34	74.00	8.90	25.10

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11b
Polarity:Vertical
Detector: Average

No	Frequency（MHz）	Measure Level（dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2412	95.30	61.30	N/A	N/A	8.90	25.10
2	2390	39.95	5.95	-14.05	54.00	8.90	25.10

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11b
Polarity:Horizontal
Detector: Average

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2412	89.64	55.64	N/A	N/A	8.90	25.10
2	2390	38.70	4.70	-15.30	54.00	8.90	25.10

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11b
Polarity:Vertical
Detector: Peak

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	100.76	66.76	N/A	N/A	8.90	25.10
2	2483.5	52.85	18.85	-21.15	74.00	8.90	25.10

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11b
Polarity:Horizontal
Detector: Peak

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	95.37	61.37	N/A	N/A	8.90	25.10
2	2483.5	51.68	17.68	-22.32	74.00	8.90	25.10

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11b
Polarity:Vertical
Detector: Average

No	Frequency（MHz）	Measure Level（dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	95.50	61.50	N/A	N/A	8.90	25.10
2	2483.5	42.60	8.60	-11.40	54.00	8.90	25.10

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11b
Polarity:Horizontal
Detector: Average

No	Frequency（MHz）	Measure Level（dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	91.78	57.78	N/A	N/A	8.90	25.10
2	2483.5	40.32	6.32	-13.68	54.00	8.90	25.10

Carrier frequency (MHz): 2467
Channel No.:12
Test Mode: 802.11b
Polarity:Vertical
Detector: Peak

No	Frequency（MHz）	Measure Level（dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2467	89.45	55.45	N/A	N/A	8.90	25.10
2	2483.5	50.77	16.77	-23.23	74.00	8.90	25.10

Carrier frequency (MHz): 2467
Channel No.:12
Test Mode: 802.11b
Polarity:Horizontal
Detector: Peak

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2467	90.36	56.36	N/A	N/A	8.90	25.10
2	2483.5	50.60	16.60	-23.40	74.00	8.90	25.10

Carrier frequency (MHz): 2467
Channel No.:12
Test Mode: 802.11b
Polarity:Vertical
Detector: Average

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2467	83.79	49.79	N/A	N/A	8.90	25.10
2	2483.5	38.73	4.73	-15.27	54.00	8.90	25.10

Carrier frequency (MHz): 2467
Channel No.:12
Test Mode: 802.11b
Polarity:Horizontal
Detector: Average

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2467	86.70	52.70	N/A	N/A	8.90	25.10
2	2483.5	38.73	4.73	-15.27	54.00	8.90	25.10

Carrier frequency (MHz): 2472
Channel No.:13
Test Mode: 802.11b
Polarity:Vertical
Detector: Peak

No	Frequency（MHz）	Measure Level（dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2472	88.97	54.97	N/A	N/A	8.90	25.10
2	2483.5	51.2	17.20	-22.8	74.00	8.90	25.10

Carrier frequency (MHz): 2472
Channel No.:13
Test Mode: 802.11b
Polarity:Horizontal
Detector: Peak

No	Frequency（MHz）	Measure Level（dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2472	89.52	55.52	N/A	N/A	8.90	25.10
2	2483.5	51.76	17.76	-22.24	74.00	8.90	25.10

Carrier frequency (MHz): 2472
Channel No.:13
Test Mode: 802.11b
Polarity:Vertical
Detector: Average

No	Frequency（MHz）	Measure Level（dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2472	85.67	51.67	N/A	N/A	8.90	25.10
2	2483.5	39.40	5.40	-14.60	54.00	8.90	25.10

Carrier frequency (MHz): 2472
Channel No.:13
Test Mode: 802.11b
Polarity:Horizontal
Detector: Average

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2472	84.55	50.55	N/A	N/A	8.90	25.10
2	2483.5	40.32	6.32	-13.68	54.00	8.90	25.10

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11g
Polarity: Vertical
Detector: Peak

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2412	103.77	69.77	N/A	N/A	8.90	25.10
2	2390	67.43	33.43	-6.57	74.00	8.90	25.10

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11g
Polarity:Horizontal
Detector: Peak

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2412	96.11	62.11	N/A	N/A	8.90	25.10
2	2390	63.62	29.62	-10.38	74.00	8.90	25.10

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11g
Polarity: Vertical
Detector: Average

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2412	92.88	58.88	N/A	N/A	8.90	25.10
2	2390	50.58	16.58	-3.42	54.00	8.90	25.10

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11g
Polarity:Horizontal
Detector: Average

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2412	86.70	52.70	N/A	N/A	8.90	25.10
2	2390	47.31	13.31	-6.69	54.00	8.90	25.10

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11g
Polarity: Vertical
Detector: Peak

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	100.89	66.89	N/A	N/A	8.90	25.10
2	2483.5	64.66	30.66	-9.34	74.00	8.90	25.10

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11g
Polarity:Horizontal
Detector: Peak

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	95.43	61.43	N/A	N/A	8.90	25.10
2	2483.5	61.33	27.33	-12.67	74.00	8.90	25.10

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11g
Polarity: Vertical
Detector: Average

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	91.59	57.59	N/A	N/A	8.90	25.10
2	2483.5	46.62	12.62	-7.38	54.00	8.90	25.10

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11g
Polarity:Horizontal
Detector: Average

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	86.16	52.16	N/A	N/A	8.90	25.10
2	2483.5	43.84	9.84	-10.16	54.00	8.90	25.10

Carrier frequency (MHz): 2467
Channel No.:12
Test Mode: 802.11g
Polarity:Vertical
Detector: Peak

No	Frequency（MHz）	Measure Level（dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2467	93.02	59.02	N/A	N/A	8.90	25.10
2	2483.5	54.24	20.24	-19.76	74.00	8.90	25.10

Carrier frequency (MHz): 2467
Channel No.:12
Test Mode: 802.11g
Polarity:Horizontal
Detector: Peak

No	Frequency（MHz）	Measure Level（dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2467	90.52	56.52	N/A	N/A	8.90	25.10
2	2483.5	55.12	21.12	-18.88	74.00	8.90	25.10

Carrier frequency (MHz): 2467
Channel No.:12
Test Mode: 802.11g
Polarity:Vertical
Detector: Average

No	Frequency（MHz）	Measure Level（dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2467	82.13	48.13	N/A	N/A	8.90	25.10
2	2483.5	39.72	5.72	-14.28	54.00	8.90	25.10

Carrier frequency (MHz): 2467
Channel No.:12
Test Mode: 802.11g
Polarity:Horizontal
Detector: Average

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2467	81.44	47.44	N/A	N/A	8.90	25.10
2	2483.5	40.32	6.32	-13.68	54.00	8.90	25.10

Carrier frequency (MHz): 2472
Channel No.:13
Test Mode: 802.11g
Polarity:Vertical
Detector: Peak

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2472	91.99	57.99	N/A	N/A	8.90	25.10
2	2483.5	58.8	24.80	-15.2	74.00	8.90	25.10

Carrier frequency (MHz): 2472
Channel No.:13
Test Mode: 802.11g
Polarity:Horizontal
Detector: Peak

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2472	90.28	56.28	N/A	N/A	8.90	25.10
2	2483.5	59.53	25.53	-14.47	74.00	8.90	25.10

Carrier frequency (MHz): 2472
Channel No.:13
Test Mode: 802.11g
Polarity:Vertical
Detector: Average

No	Frequency（MHz）	Measure Level（dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2472	81.5	47.50	N/A	N/A	8.90	25.10
2	2483.5	41.66	7.66	-12.34	54.00	8.90	25.10

Carrier frequency (MHz): 2472
Channel No.:13
Test Mode: 802.11g
Polarity:Horizontal
Detector: Average

No	Frequency（MHz）	Measure Level（dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2472	81.09	47.09	N/A	N/A	8.90	25.10
2	2483.5	42.82	8.82	-11.18	54.00	8.90	25.10

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11n(HT20)
Polarity: Vertical
Detector: Peak

No	Frequency（MHz）	Measure Level（dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2412	99.11	65.11	N/A	N/A	8.90	25.10
2	2390	51.47	17.47	-22.53	74.00	8.90	25.10

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11n(HT20)
Polarity:Horizontal
Detector: Peak

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2412	93.92	59.92	N/A	N/A	8.90	25.10
2	2390	50.32	16.32	-23.68	74.00	8.90	25.10

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11n(HT20)
Polarity: Vertical
Detector: Average

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2412	93.62	59.62	N/A	N/A	8.90	25.10
2	2390	38.71	4.71	-15.29	54.00	8.90	25.10

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11n(HT20)
Polarity:Horizontal
Detector: Average

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2412	88.43	54.43	N/A	N/A	8.90	25.10
2	2390	38.01	4.01	-15.99	54.00	8.90	25.10

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11n(HT20)
Polarity: Vertical
Detector: Peak

No	Frequency（MHz）	Measure Level（dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	98.73	64.73	N/A	N/A	8.90	25.10
2	2483.5	51.12	17.12	-22.88	74.00	8.90	25.10

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11n(HT20)
Polarity:Horizontal
Detector: Peak

No	Frequency（MHz）	Measure Level（dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	93.79	59.79	N/A	N/A	8.90	25.10
2	2483.5	50.77	16.77	-23.23	74.00	8.90	25.10

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11n(HT20)
Polarity: Vertical
Detector: Average

No	Frequency（MHz）	Measure Level（dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	93.38	59.38	N/A	N/A	8.90	25.10
2	2483.5	39.40	5.40	-14.60	54.00	8.90	25.10

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11n(HT20)
Polarity:Horizontal
Detector: Average

No	Frequency（MHz）	Measure Level（dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	88.43	54.43	N/A	N/A	8.90	25.10
2	2483.5	39.07	5.07	-14.93	54.00	8.90	25.10

Carrier frequency (MHz): 2467
Channel No.:12
Test Mode: 802.11n(HT20)
Polarity:Vertical
Detector: Peak

No	Frequency（MHz）	Measure Level（dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2467	90.8	56.8	N/A	N/A	8.90	25.10
2	2483.5	50.14	16.14	-23.86	74.00	8.90	25.10

Carrier frequency (MHz): 2467
Channel No.:12
Test Mode: 802.11n(HT20)
Polarity:Horizontal
Detector: Peak

No	Frequency（MHz）	Measure Level（dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2467	91.27	57.27	N/A	N/A	8.90	25.10
2	2483.5	51.03	17.03	-22.97	74.00	8.90	25.10

Carrier frequency (MHz): 2467
Channel No.:12
Test Mode: 802.11n(HT20)
Polarity:Vertical
Detector: Average

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2467	87.14	53.14	N/A	N/A	8.90	25.10
2	2483.5	38.73	4.73	-15.27	54.00	8.90	25.10

Carrier frequency (MHz): 2467
Channel No.:12
Test Mode: 802.11n(HT20)
Polarity:Horizontal
Detector: Average

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2467	87.17	53.17	N/A	N/A	8.90	25.10
2	2483.5	39.07	5.07	-14.93	54.00	8.90	25.10

Carrier frequency (MHz): 2472
Channel No.:13
Test Mode: 802.11n(HT20)
Polarity:Vertical
Detector: Peak

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2472	89.9	55.9	N/A	N/A	8.90	25.10
2	2483.5	52.5	18.5	-21.5	74.00	8.90	25.10

Carrier frequency (MHz): 2472
Channel No.:13
Test Mode: 802.11n(HT20)
Polarity:Horizontal
Detector: Peak

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2472	90.2	56.2	N/A	N/A	8.90	25.10
2	2483.5	52.36	18.36	-21.64	74.00	8.90	25.10

Carrier frequency (MHz): 2472
Channel No.:13
Test Mode: 802.11n(HT20)
Polarity:Vertical
Detector: Average

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2472	83.98	49.98	N/A	N/A	8.90	25.10
2	2483.5	40.02	6.02	-13.98	54.00	8.90	25.10

Carrier frequency (MHz): 2472
Channel No.:13
Test Mode: 802.11n(HT20)
Polarity:Horizontal
Detector: Average

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2472	84.33	50.33	N/A	N/A	8.90	25.10
2	2483.5	40.88	6.88	-13.12	54.00	8.90	25.10

Carrier frequency (MHz): 2422
Channel No.:3
Test Mode: 802.11n(HT40)
Polarity: Vertical
Detector: Peak

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2422	98.34	64.34	N/A	N/A	8.90	25.10
2	2390	50.49	16.49	-23.51	74.00	8.90	25.10

Carrier frequency (MHz): 2422
Channel No.:3
Test Mode: 802.11n(HT40)
Polarity:Horizontal
Detector: Peak

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2422	93.97	59.97	N/A	N/A	8.90	25.10
2	2390	50.91	16.91	-23.09	74.00	8.90	25.10

Carrier frequency (MHz): 2422
Channel No.:3
Test Mode: 802.11n(HT40)
Polarity: Vertical
Detector: Average

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2422	93.96	59.96	N/A	N/A	8.90	25.10
2	2390	38.36	4.36	-15.64	54.00	8.90	25.10

Carrier frequency (MHz): 2422
Channel No.:3
Test Mode: 802.11n(HT40)
Polarity:Horizontal
Detector: Average

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2422	87.97	53.97	N/A	N/A	8.90	25.10
2	2390	38.01	4.01	-15.99	54.00	8.90	25.10

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11n(HT40)
Polarity: Vertical
Detector: Peak

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	97.89	63.89	N/A	N/A	8.90	25.10
2	2483.5	51.84	17.84	-22.16	74.00	8.90	25.10

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11n(HT40)
Polarity:Horizontal
Detector: Peak

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	92.98	58.98	N/A	N/A	8.90	25.10
2	2483.5	51.44	17.44	-22.56	74.00	8.90	25.10

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11n(HT40)
Polarity: Vertical
Detector: Average

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	92.47	58.47	N/A	N/A	8.90	25.10
2	2483.5	39.72	5.72	-14.28	54.00	8.90	25.10

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11n(HT40)
Polarity:Horizontal
Detector: Average

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	87.60	53.60	N/A	N/A	8.90	25.10
2	2483.5	39.07	5.07	-14.93	54.00	8.90	25.10

2.3. Measurement Uncertainty

Items	Uncertainty	
Occupied Bandwidth	3kHz	
Peak power output	0.67dB	
Band edge compliance	1.20dB	
Transmitter Power Spectral Density	0.75dB	
Spurious emissions	30MHz～1GHz	2.83dB
	1GHz～12.75GHz	2.50dB
	12.75GHz～25GHz	2.75dB

2.4. List of test equipment

No.	Name/Model	Manufacturer	S/N	Cal Due date
1.	Spectrum Analyzer FSV	ROHDE&SCHWARZ	101065	2014.8
2.	Signal Generator MG3700A	Anritsu	6200677084	2014.8
3.	Attenuation 6810.17.B	HUBER+SUHNER	768710	2014.8
4.	Cable 104EA	SUCOFLEX	9272/4EA	2014.8
5.	Cable 104EA	SUCOFLEX	9266/4EA	2014.8
6.	12.65m×8.03m×7.50m Fully-Anechoic Chamber	FRANKONIA	-----	-----
7.	23.18m×16.88m×9.60m Semi-Anechoic Chamber	FRANKONIA	---	-----
8.	Turn table Diameter:1m	HD	-----	-----
9.	Turn table Diameter:5m	HD	-----	-----
10.	Antenna master FAC(MA4.0)	MATURO	-----	-----
11.	Antenna master SAC(MA4.0)	MATURO	-----	-----
12.	9.080m×5.255m×3.525m Shielding room	FRANKONIA	-----	-----
13.	HF 906 Double-Ridged Waveguide Horn Antenna	R&S	100030	2014.8
14.	HF 906 Double-Ridged Waveguide Horn Antenna	R&S	100029	2014.8
15.	HL562 Ultra log antenna	R&S	100016	2014.8
16.	3160-09 Receive antenna	SCHWARZ-BECK	002058-002	2014.8
17.	ESI 40 EMI test receiver	R&S	100015	2014.8
18.	Radio tester	CMU 200	114667	2014.8
19.	ESCS30 EMI test receiver	R&S	100029	2014.8
20.	HL562 Receive antenna	R&S	100167	2014.8
21.	ESH3-Z5 LISN	R&S	100020	2014.8

Appendix

Appendix1 Test Setup