



**FCC PART 15C
TEST REPORT
No. 2012WLN0457**

for

TCT Mobile Limited

HSUPA/HSDPA/UMTS triband / GSM quadband mobile phone

Type: Camry LatamAPAC Single SIM

Market Name: ONE TOUCH 5035A

With

FCC ID: RAD332

Hardware Version: MAIN PCB V1.3; SUB PCB V1.2;

Software Version: FA2

Issued Date: 2013-02-25



Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of TMC Beijing.

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1. TEST LABORATORY

1.1. Testing Location

Company Name: TMC Beijing, Telecommunication Metrology Center of MIIT
Address: No 52 Hua Yuanbei Road, Haidian District, Beijing, P.R.China
Postal Code: 100191
Telephone: 008610623046332561
Fax: 008610623046332504

1.2. Testing Environment

Normal Temperature: 15-30℃
Extreme Temperature: -10/+55℃
Relative Humidity: 30-60%
Air Pressure 990hPa-1040hPa

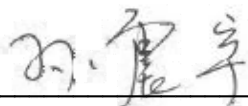
Note: The climatic requirements above are general exclude the special requirements for dedicated test environments listed in section 5 and some specific test cases in other parts of this report.

1.3. Project data

Testing Start Date: 2012-12-21
Testing End Date: 2013-02-04

Note: This report is modified with the report 2012WLN0442, and that report (report number: 2012WLN0442) is not valid after this report issued.

1.4. Signature



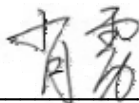
Sun Zhenyu

(Prepared this test report)



Gao Hong

(Reviewed this test report)



Xiao Li

Deputy Director of the laboratory

(Approved this test report)

2. CLIENT INFORMATION

2.1. Applicant Information

Company Name: TCT Mobile Limited
Address /Post: 12F/B, TCL Tower, Gaoxin Nanyi Road,Nanshan District,
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Postal Code: /
Country: China
Contact Lv Meixian
Email meixian.lv@tcl.com
Telephone: 0086-755-33956929
Fax: 0086-755-36645072

2.2. Manufacturer Information

Company Name: TCT Mobile Limited
Address /Post: 12F/B, TCL Tower, Gaoxin Nanyi Road,Nanshan District,
Shenzhen,Guangdong, P.R. China
City: Shenzhen
Postal Code: /
Country: China
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Telephone: 0086-755-33956929
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3. EQUIPMENT UNDER TEST(EUT) AND ANCILLARY EQUIPMENT(AE)

3.1. About EUT

Description	HSUPA/HSDPA/UMTS triband / GSM quadband mobile phone
Type	Camry LatamAPAC Single SIM
Market name	ONE TOUCH 5035A
FCC ID	RAD332
IC ID	/
With WLAN Function	Yes
Frequency Range	ISM 2400MHz~2483.5MHz
Type of Modulation	DSSS/CCK/OFDM
Number of Channels	11
Antenna	Integral Antenna
MAX Conducted Power	22.90dBm(CCK)
Power Supply	3.7V DC by Battery

Note: Photographs of EUT are shown in ANNEX C of this test report.

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version
EUT1	013497000000094	MAIN PCB V1.3;SUB PCB V1.2	FA2
EUT2	013497000000078	MAIN PCB V1.3;SUB PCB V1.2	FA2

*EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE used during the test

AE ID*	Description	Type	SN
AE1	Battery	CAB32E0000C1	/
AE2	Battery	CAB32E0000C2	/
AE3	Charger	CBA3000AG0C1	/

*AE ID: is used to identify the test sample in the lab internally.

3.4. General Description

Equipment Under Test (EUT) is a model of HSUPA/HSDPA/UMTS triband / GSM quadband mobile phone with integrated antenna. It consists of normal options: Battery and Charger. Manual and specifications of the EUT were provided to fulfil the test.

Samples undergoing test were selected by the Client.

3.5. Normal testing condition

Normal Accessory setting:

1. A microSD card was being installed in the device during the test;
2. Fully charged battery should be used during the test.

4. Reference Documents

4.1. Documents supplied by applicant

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

4.2. REFERENCE DOCUMENTS FOR TESTING

The following documents listed in this section are referred for testing.

FCC Part15	FCC CFR 47, Part 15, Subpart C: 15.205 Restricted bands of operation; 15.209 Radiated emission limits, general requirements; 15.247 Operation within the bands 902-928MHz, 2400-2483.5 MHz, and 5725-5850 MHz.	Oct, 2009 Edition
ANSI C63.10	Procedures for testing compliance of a wide variety of unlicensed wireless devices	2009

5. LABORATORY ENVIRONMENT

Shielding Room1 (6.0 meters×3.0 meters×2.7 meters) did not exceed following limits along the conducted RF performance testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Ground system resistance	< 0.5 Ω
Uniformity of field strength	Between 0 and 6 dB, from 80MHz to 3000 MHz

Semi-anechoic chamber (10 meters×6.7meters×6.15meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 2 M ohm
Ground system resistance	< 0.5 Ω
Normalised site attenuation (NSA)	< ±3.5 dB, 3 m distance
Site voltage standing-wave ratio (S _{VSWR})	Between 0 and 6 dB, from 1GHz to 18GHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 3000 MHz

Shielding Room2 (7.30 meters×4.00 meters×3.80 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω
Uniformity of field strength	Between 0 and 6 dB, from 80MHz to 3000 MHz

6. SUMMARY OF TEST RESULTS

6.1. Summary of Test Results

SUMMARY OF MEASUREMENT RESULTS	Sub-clause of Part15C	Sub-clause of IC	Verdict
Maximum Peak Output Power	15.247 (a)	/	P
Peak Power Spectral Density	15.247 (d)	/	P
Occupied 6dB Bandwidth	15.247 (d)	/	P
Band Edges Compliance	15.247 (b)	/	P
Transmitter Spurious Emission - Conducted	15.247	/	P
Transmitter Spurious Emission - Radiated	15.247, 15.205, 15.209	/	P
AC Powerline Conducted Emission	15.107, 15.207	/	P

Please refer to **ANNEX A** for detail.

The measurement is made according to Public notice ANSI C63.10.

Terms used in Verdict column

P	Pass, The EUT complies with the essential requirements in the standard.
NP	Not Perform, The test was not performed by TMC
NA	Not Applicable, The test was not applicable
F	Fail, The EUT does not comply with the essential requirements in the standard

6.2. Statements

TMC has evaluated the test cases requested by the client/manufacturer as listed in section 6.1 of this report for the EUT specified in section 3 according to the standards or reference documents listed in section 4.1.

This report only deals with the WLAN function among the features described in section 3.

Test Conditions

T nom	Normal Temperature
T min	Low Temperature
T max	High Temperature
V nom	Normal Voltage
V min	Low Voltage
V max	High Voltage
H nom	Norm Humidity
A nom	Norm Air Pressure

For this report, all the test cases listed above are tested under Normal Temperature and Normal Voltage which is using a new battery, and also under norm humidity, the specific conditions as following:

Temperature	T nom	26°C
Voltage	V nom	3.7V(By battery)
Humidity	H nom	44%
Air Pressure	A nom	1010hPa

7. TEST EQUIPMENTS UTILIZED

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date
1	Vector Signal Analyzer	FSQ40	200089	Rohde & Schwarz	2013-07-19
3	Test Receiver	ESS	847151/015	Rohde & Schwarz	2013-10-30
4	LISN	ESH2-Z5	829991/012	Rohde & Schwarz	2013-08-12

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date
1	Test Receiver	ESI40	831564/002	Rohde & Schwarz	2013-08-11
2	BiLog Antenna	3142B	9908-1403	EMCO	2013-03-15
3	Dual-Ridge Waveguide Horn Antenna	3115	9906-5827	EMCO	2013-12-25
4	Dual-Ridge Waveguide Horn Antenna	3116	2661	EMCO	2013-06-30

Anechoic chamber

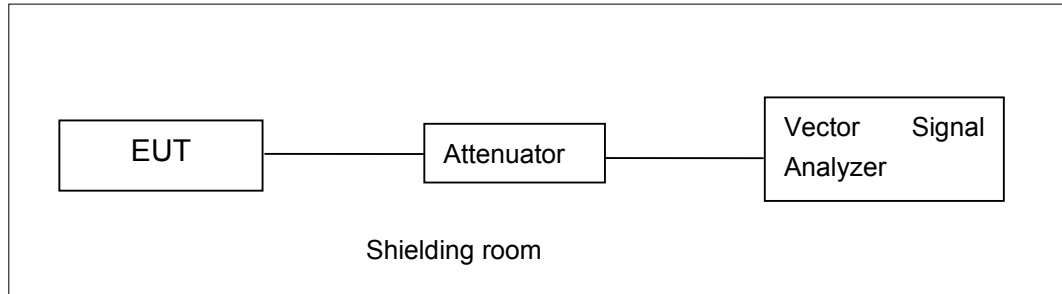
Anechoic chamber by Frankonia German.

ANNEX A: MEASUREMENT RESULTS

A.1. Measurement Method

A.1.1. Conducted Measurements

- 1). Connect the EUT to the test system correctly.
- 2). Set the EUT to the required work mode.
- 3). Set the EUT to the required channel.
- 4). Set the spectrum analyzer to start measurement.
- 5). Record the values. Vector Signal Analyzer

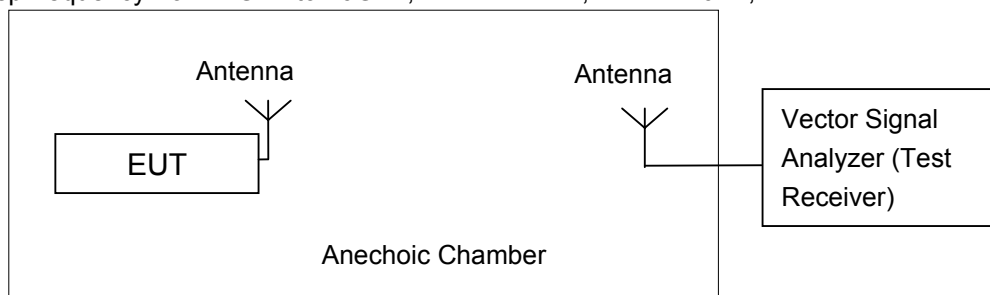


A.1.2. Radiated Emission Measurements

In the case of radiated emission, the used settings are as follows,

Sweep frequency from 30 MHz to 1GHz, RBW = 100 kHz, VBW = 300 kHz;

Sweep frequency from 1 GHz to 26GHz, RBW = 1MHz, VBW = 10Hz;



The measurement is made according to ANSI C63.10

A.2. Maximum Output Power

Measurement Limit and Method:

Standard	Limit (dBm)
FCC CRF Part 15.247(b)	< 30

The measurement is made according to ANSI C63.10, and EUT is operating in continuous transmitting mode.

Measurement Uncertainty:

Measurement Uncertainty	0.75dB
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A.2.1. Maximum Peak Output Power-conducted

Measurement Results:

802.11b/g mode

Mode	Data Rate (Mbps)	Test Result (dBm)		
		2412MHz (Ch1)	2437MHz (Ch6)	2462 MHz (Ch11)
802.11b	1	19.60	/	/
	2	20.33	/	/
	5.5	21.63	/	/
	11	22.90	22.26	21.25
802.11g	6	21.15	/	/
	9	21.52	/	/
	12	21.42	/	/
	18	20.46	/	/
	24	21.91	21.20	20.24
	36	21.54	/	/
	48	21.57	/	/
	54	21.73	/	/

The data rate 11Mbps and 24Mbps are selected as worse condition, and the following cases are performed with this condition.

802.11n-HT20 mode

Mode	Data Rate (Index)	Test Result (dBm)		
		2412MHz (Ch1)	2437MHz (Ch6)	2462 MHz (Ch11)
802.11n (20MHz)	MCS0	21.90	21.30	19.70
	MCS1	21.31	/	/
	MCS2	21.20	/	/
	MCS3	21.40	/	/
	MCS4	21.85	/	/
	MCS5	21.46	/	/
	MCS6	21.60	/	/
	MCS7	21.46	/	/

The data rate MCS0 is selected as worse condition, and the following cases are performed with this condition.

802.11n-HT40 mode

Mode	Data Rate (Index)	Test Result (dBm)		
		2422MHz (Ch3)	2437MHz (Ch6)	2452 MHz (Ch9)
802.11n (40MHz)	MCS0	19.15	/	/
	MCS1	19.41	/	/
	MCS2	19.05	/	/
	MCS3	19.72	18.16	18.26
	MCS4	19.32	/	/
	MCS5	20.17	/	/
	MCS6	20.19	/	/
	MCS7	19.83	/	/

The data rate MCS3 is selected as worse condition, and the following cases are performed with this condition.

Conclusion: PASS

A.2.2. Maximum Average Output Power-conducted

802.11b/g mode

Mode	Test Result (dBm)		
	2412MHz (Ch1)	2437MHz (Ch6)	2462 MHz (Ch11)
802.11b	16.78	16.44	15.18
802.11g	13.51	13.15	12.16

802.11n-HT20 mode

Mode	Test Result (dBm)		
	2412MHz (Ch1)	2437MHz (Ch6)	2462 MHz (Ch11)
802.11n (20MHz)	13.60	12.30	11.79

802.11n-HT40 mode

Mode	Test Result (dBm)		
	2422MHz (Ch3)	2437MHz (Ch6)	2452 MHz (Ch9)
802.11n (40MHz)	11.10	10.94	10.57

Conclusion: PASS

A.3. Peak Power Spectral Density

Measurement Limit:

Standard	Limit
FCC CRF Part 15.247(d)	< 8 dBm/3 kHz

The measurement is made according to ANSI C63.10

Measurement Uncertainty:

Measurement Uncertainty	0.75dB
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Measurement Results:

802.11b/g mode

Mode	Channel	Power Spectral Density (dBm/3 kHz)		Conclusion
		Fig.	Value	
802.11b	1	Fig.1	-6.93	P
	6	Fig.2	-7.68	P
	11	Fig.3	-8.04	P
802.11g	1	Fig.4	-14.24	P
	6	Fig.5	-15.18	P
	11	Fig.6	-15.44	P

802.11n-HT20 mode

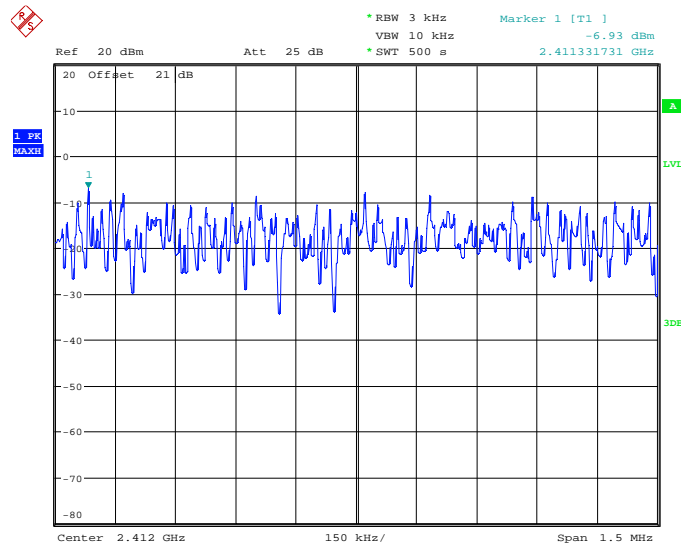
Mode	Channel	Power Spectral Density (dBm/3 kHz)		Conclusion
		Fig.	Value	
802.11n (20MHz)	1	Fig.7	-15.96	P
	6	Fig.8	-16.18	P
	11	Fig.9	-18.56	P

802.11n-HT40 mode

Mode	Channel	Power Spectral Density (dBm/3 kHz)		Conclusion
		Fig.	Value	
802.11n (40MHz)	3	Fig.10	-19.75	P
	6	Fig.11	-21.61	P
	9	Fig.12	-23.03	P

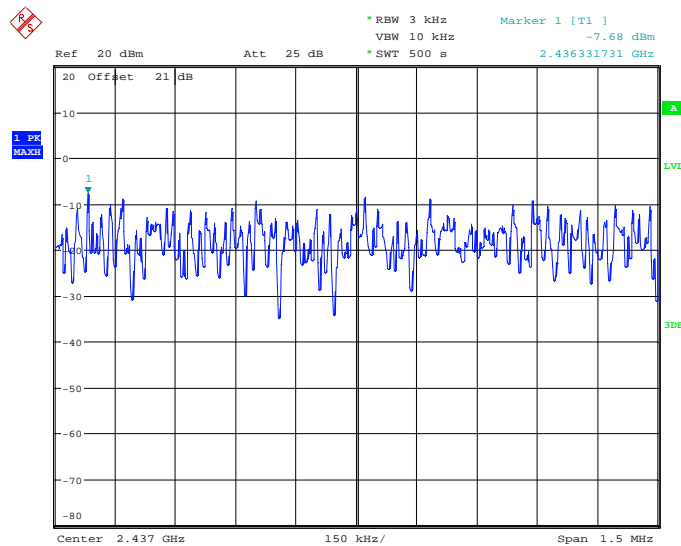
Conclusion: PASS

Test graphs as below:



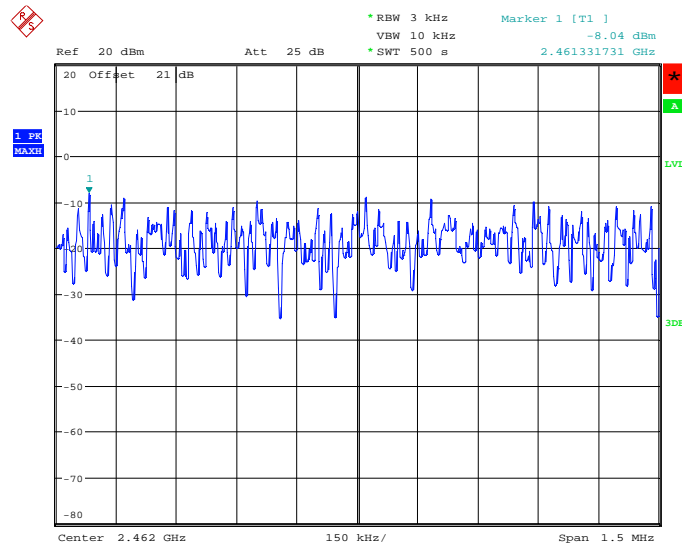
Date: 15.JAN.2013 17:19:33

Fig. 1 Power Spectral Density (802.11b, Ch 1)



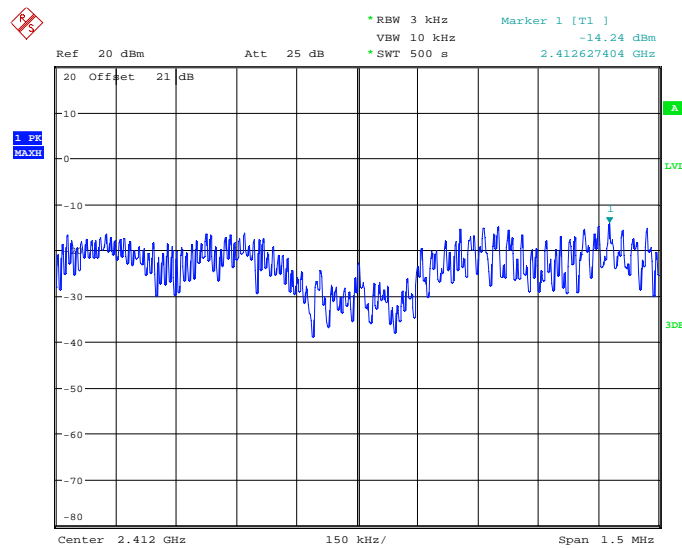
Date: 15.JAN.2013 17:32:43

Fig. 2 Power Spectral Density (802.11b, Ch 6)



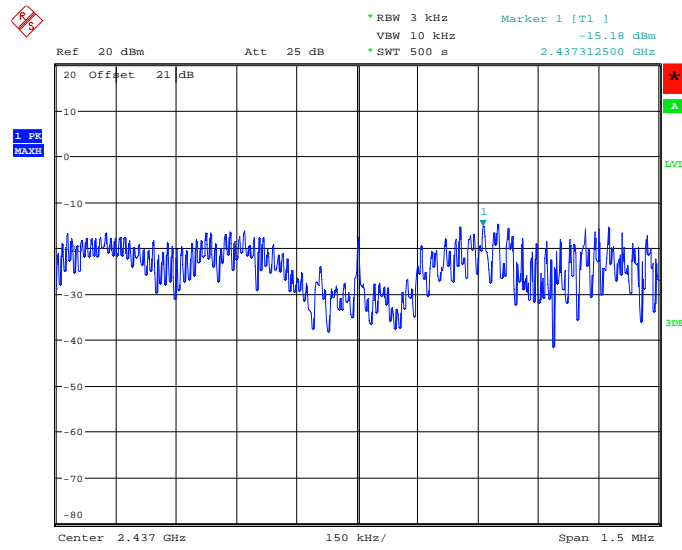
Date: 15.JAN.2013 17:40:07

Fig. 3 Power Spectral Density (802.11b, Ch 11)



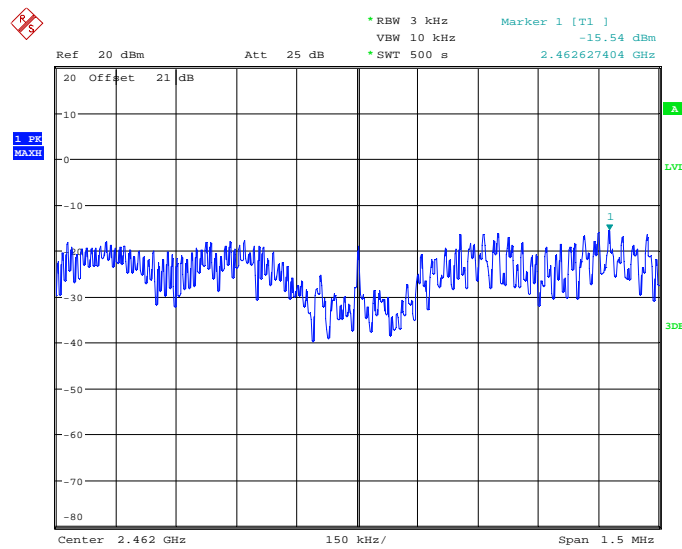
Date: 15.JAN.2013 17:51:01

Fig. 4 Power Spectral Density (802.11g, Ch 1)



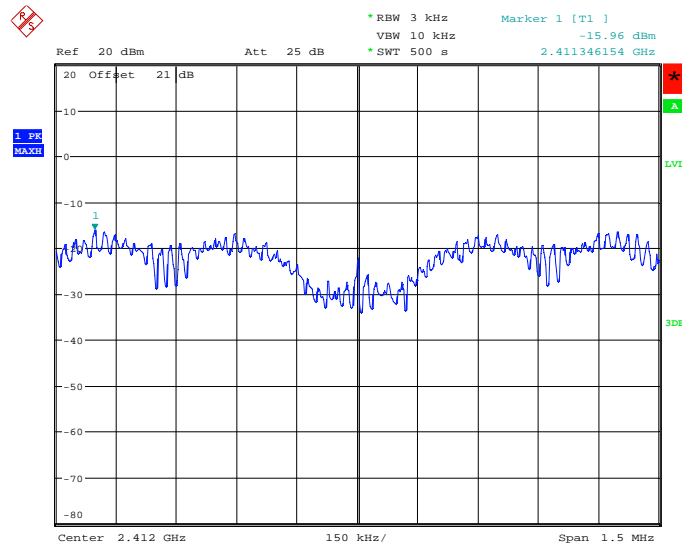
Date: 15.JAN.2013 17:58:01

Fig. 5 Power Spectral Density (802.11g, Ch 6)



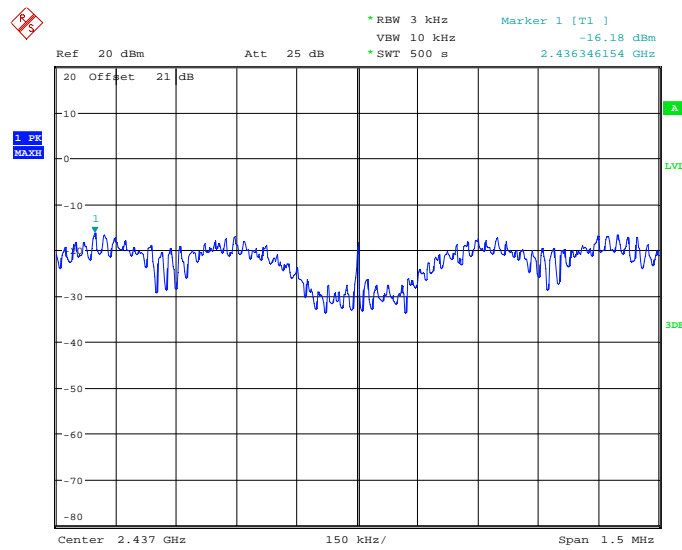
Date: 15.JAN.2013 18:08:29

Fig. 6 Power Spectral Density (802.11g, Ch 11)



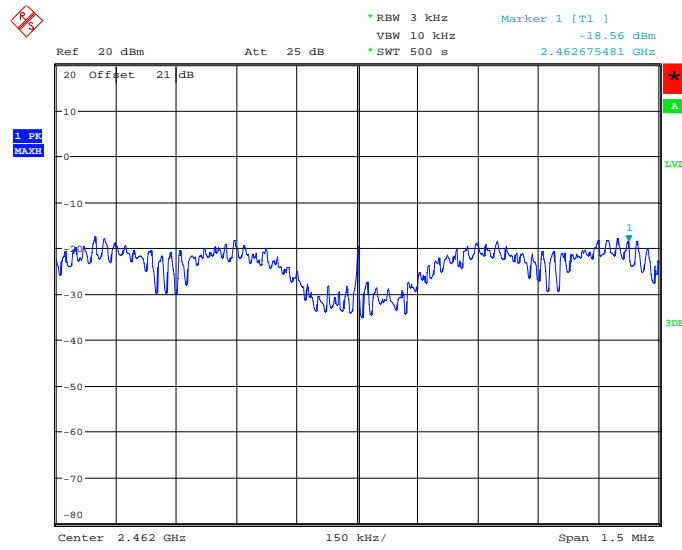
Date: 15.JAN.2013 18:21:13

Fig. 7 Power Spectral Density (802.11n-20MHz, Ch 1)



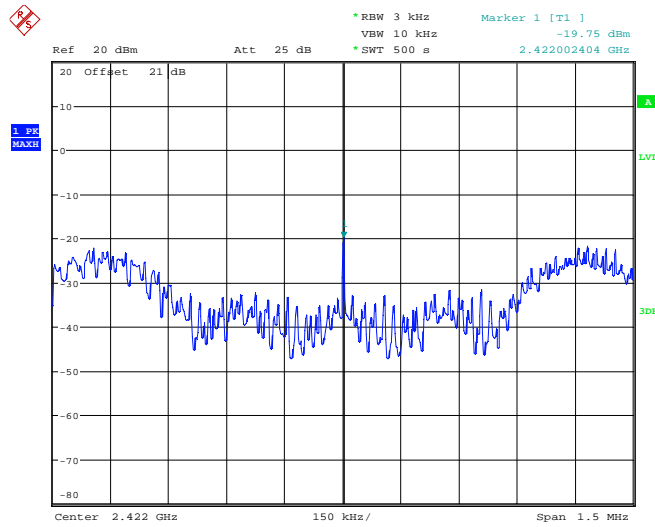
Date: 15.JAN.2013 18:32:00

Fig. 8 Power Spectral Density (802.11n-20MHz, Ch 6)



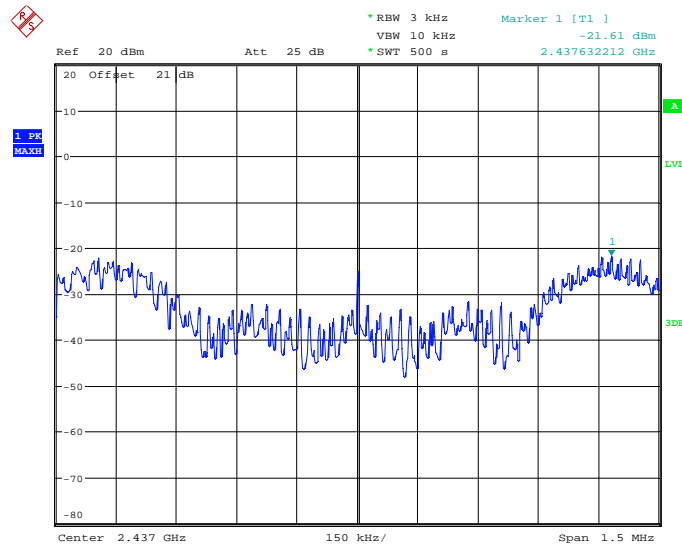
Date: 15.JAN.2013 18:41:20

Fig. 9 Power Spectral Density (802.11n-20MHz, Ch 11)



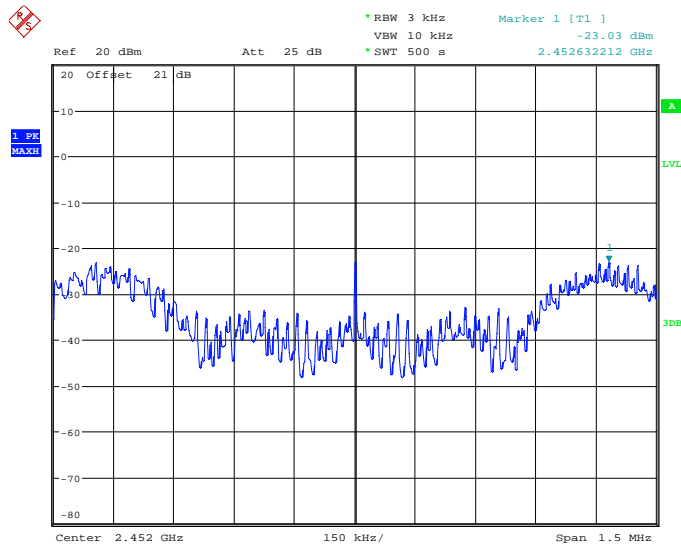
Date: 15.JAN.2013 18:50:39

Fig. 10 Power Spectral Density (802.11n-40MHz, Ch 3)



Date: 15.JAN.2013 19:00:14

Fig. 11 Power Spectral Density (802.11n-40MHz, Ch 6)



Date: 17.JAN.2013 10:07:53

Fig. 12 Power Spectral Density (802.11n-40MHz, Ch 9)

A.4. Occupied 6dB Bandwidth

Measurement Limit:

Standard	Limit (kHz)
FCC 47 CFR Part 15.247 (a)	≥ 500

The measurement is made according to ANSI C63.10

Measurement Uncertainty:

Measurement Uncertainty	60.80Hz
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Measurement Result:

802.11b/g mode

Mode	Channel	Occupied 6dB Bandwidth (kHz)		conclusion
802.11b	1	Fig.13	9327	P
	6	Fig.14	9375	P
	11	Fig.15	9471	P
802.11g	1	Fig.16	16635	P
	6	Fig.17	16587	P
	11	Fig.18	16635	P

802.11n-HT20 mode

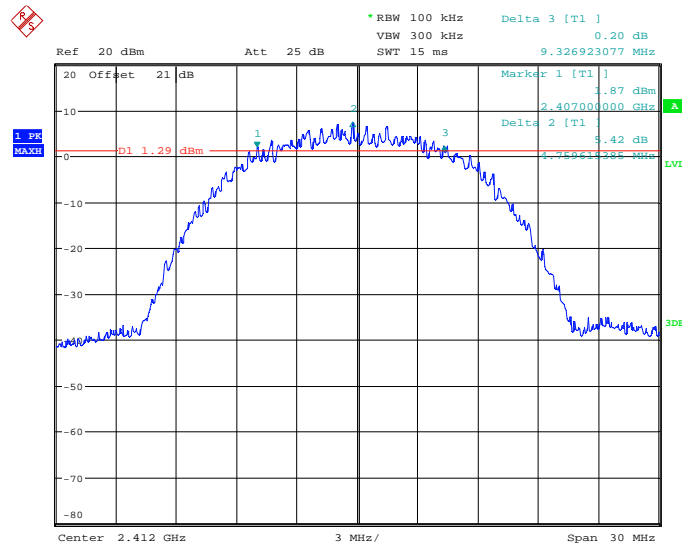
Mode	Channel	Occupied 6dB Bandwidth (kHz)		conclusion
802.11n (20MHz)	1	Fig.19	17885	P
	6	Fig.20	17837	P
	11	Fig.21	17885	P

802.11n-HT40 mode

Mode	Channel	Occupied 6dB Bandwidth (kHz)		conclusion
802.11n (40MHz)	3	Fig.22	36538	P
	6	Fig.23	36635	P
	9	Fig.24	36635	P

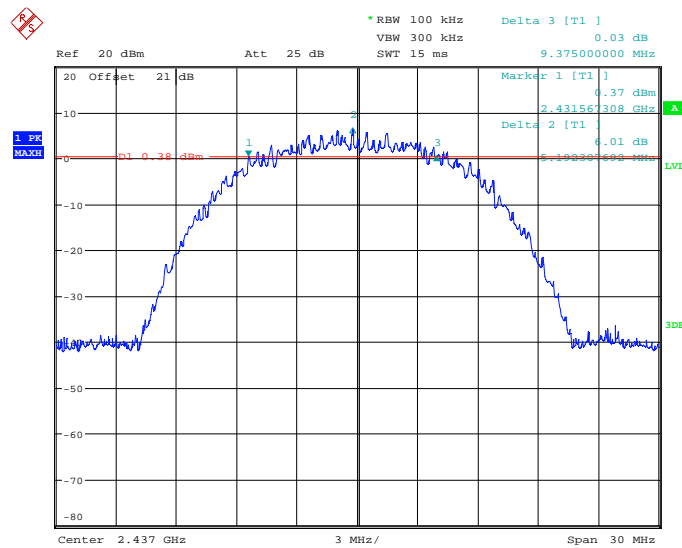
Conclusion: PASS

Test graphs as below:



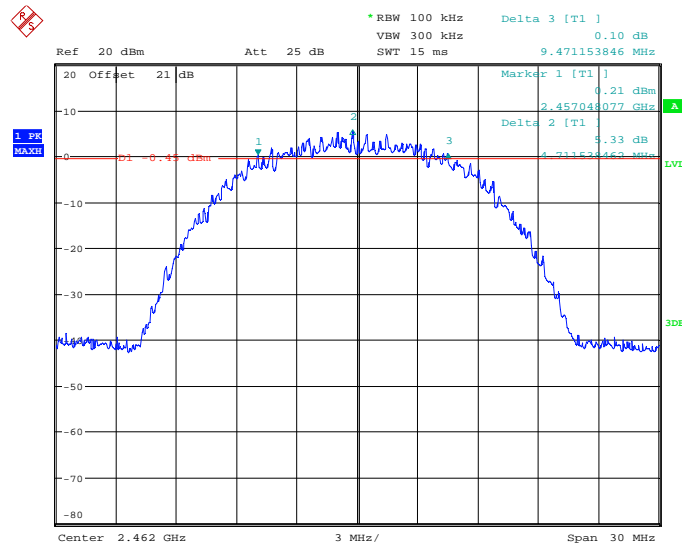
Date: 15.JAN.2013 15:03:09

Fig. 13 Occupied 6dB Bandwidth (802.11b, Ch 1)



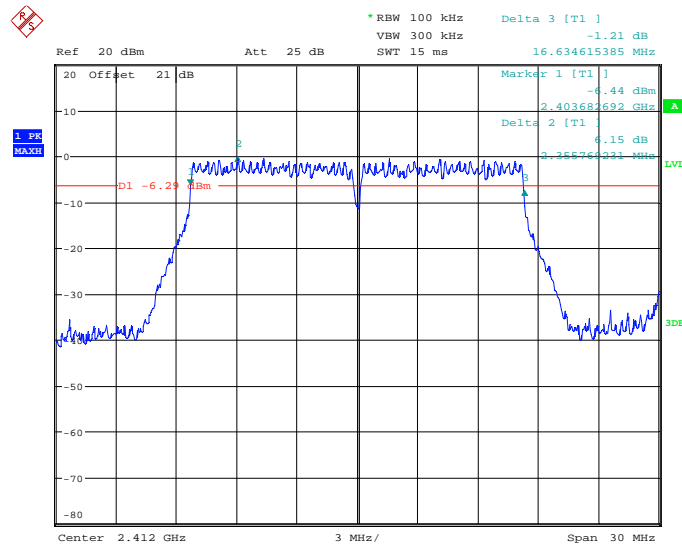
Date: 15.JAN.2013 15:04:58

Fig. 14 Occupied 6dB Bandwidth (802.11b, Ch 6)



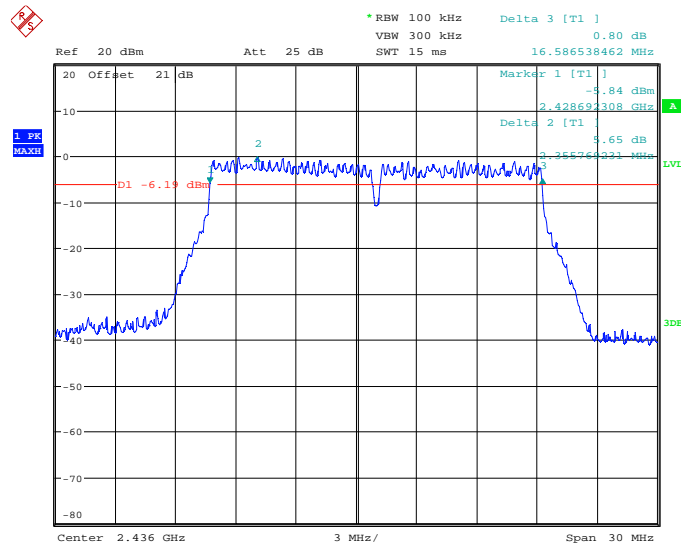
Date: 15.JAN.2013 15:06:44

Fig. 15 Occupied 6dB Bandwidth (802.11b, Ch 11)



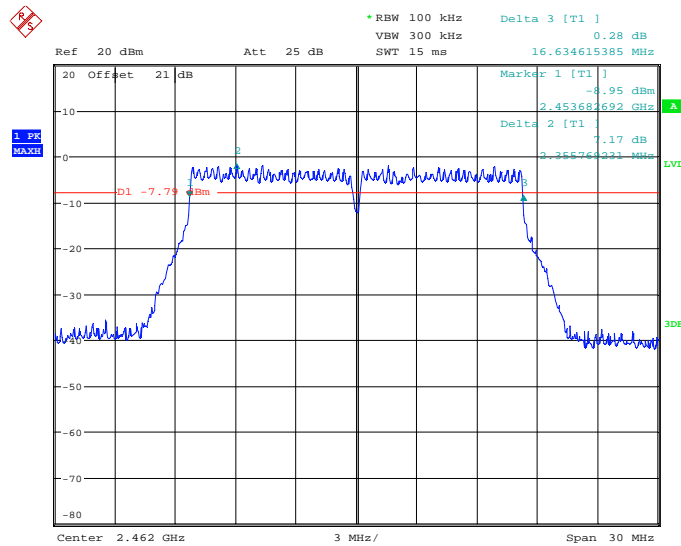
Date: 15.JAN.2013 14:40:48

Fig. 16 Occupied 6dB Bandwidth (802.11g, Ch 1)



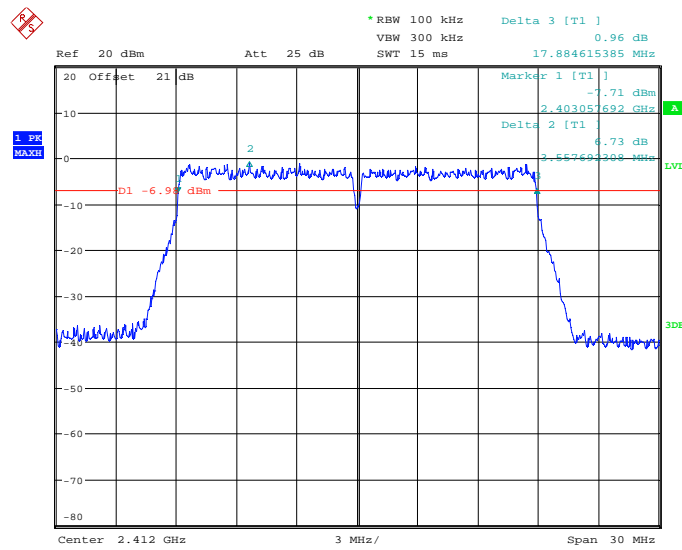
Date: 15.JAN.2013 14:47:46

Fig. 17 Occupied 6dB Bandwidth (802.11g, Ch 6)



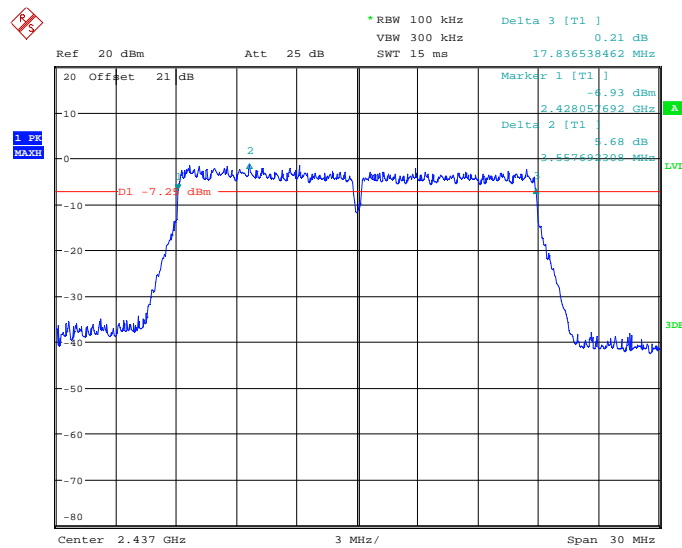
Date: 15.JAN.2013 14:51:37

Fig. 18 Occupied 6dB Bandwidth (802.11g, Ch 11)



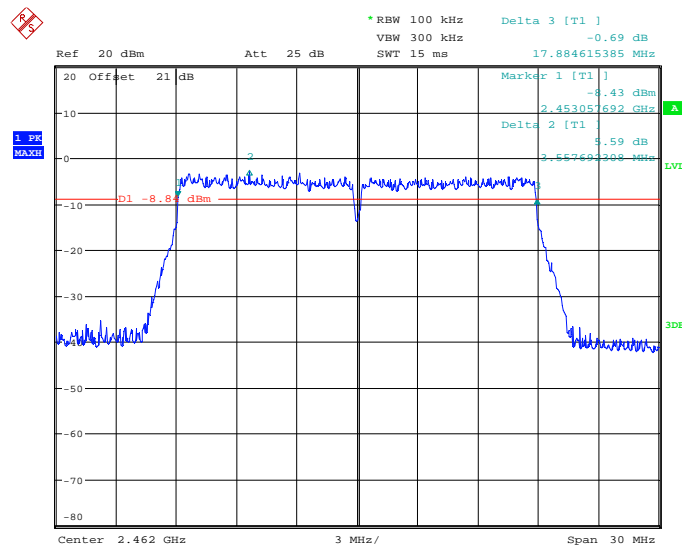
Date: 15.JAN.2013 15:08:22

Fig. 19 Occupied 6dB Bandwidth (802.11n-20MHz, Ch 1)



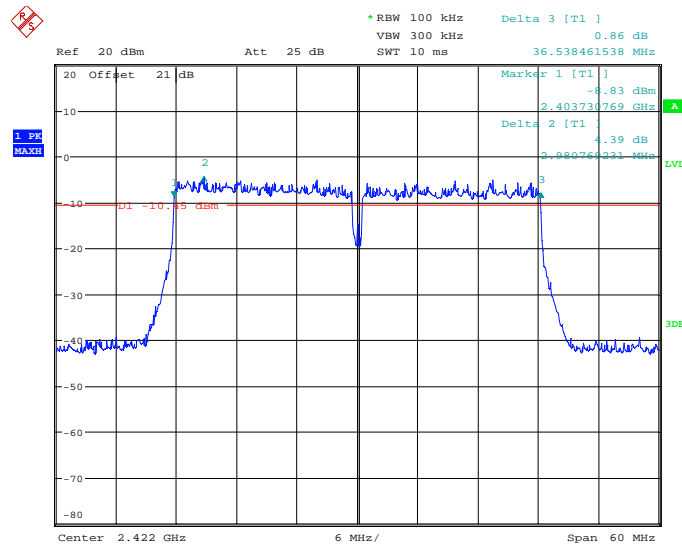
Date: 15.JAN.2013 15:09:55

Fig. 20 Occupied 6dB Bandwidth (802.11n-20MHz, Ch 6)



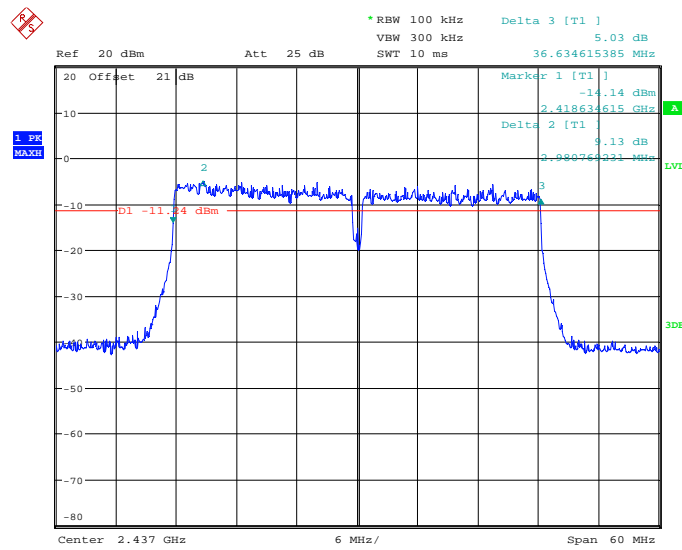
Date: 15.JAN.2013 15:11:25

Fig. 21 Occupied 6dB Bandwidth (802.11n-20MHz, Ch 11)



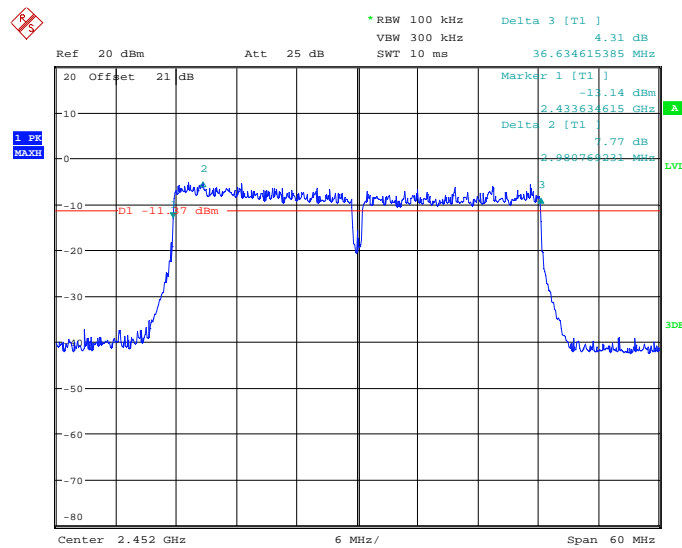
Date: 15.JAN.2013 15:13:49

Fig. 22 Occupied 6dB Bandwidth (802.11n-40MHz, Ch 3)



Date: 15.JAN.2013 15:16:22

Fig. 23 Occupied 6dB Bandwidth (802.11n-40MHz, Ch 6)



Date: 15.JAN.2013 15:18:03

Fig. 24 Occupied 6dB Bandwidth (802.11n-40MHz, Ch 9)

A.5. Band Edges Compliance

Measurement Limit:

Standard	Limit (dBc)
FCC 47 CFR Part 15.247 (d)	> 20

The measurement is made according to ANSI C63.10

Measurement Uncertainty:

Measurement Uncertainty	0.75dB
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Measurement Result:

802.11b/g mode

Mode	Channel	Test Results	Conclusion
802.11b	1	Fig.25	P
	11	Fig.26	P
802.11g	1	Fig.27	P
	11	Fig.28	P

802.11n-HT20 mode

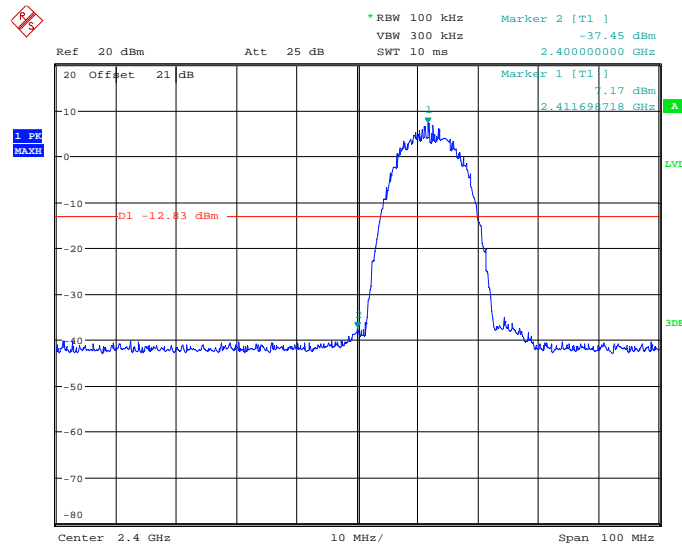
Mode	Channel	Test Results	Conclusion
802.11n (20MHz)	1	Fig.29	P
	11	Fig.30	P

802.11n-HT40 mode

Mode	Channel	Test Results	Conclusion
802.11n (40MHz)	3	Fig.31	P
	9	Fig.32	P

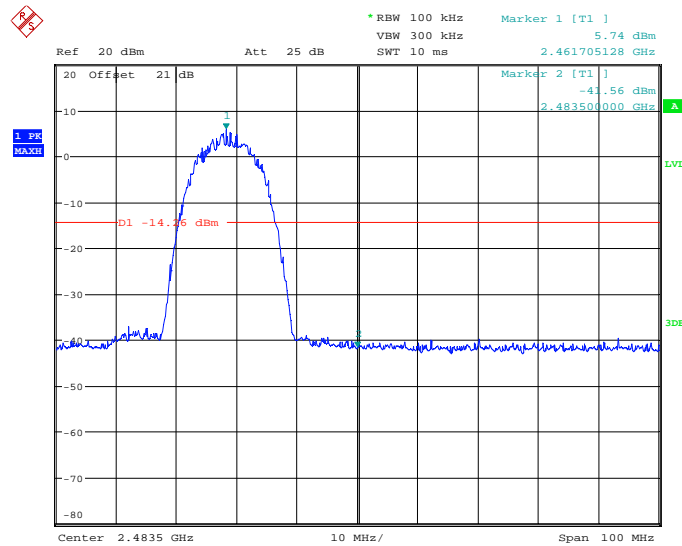
Conclusion: PASS

Test graphs as below:



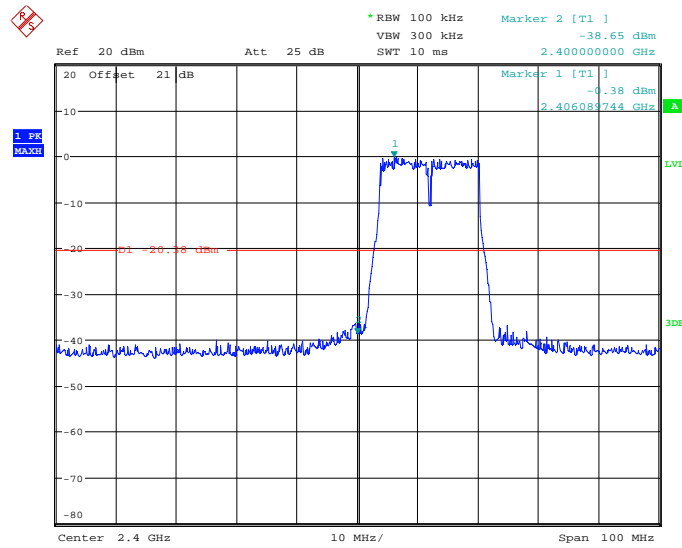
Date: 15.JAN.2013 15:29:27

Fig. 25 Band Edges (802.11b, Ch 1)



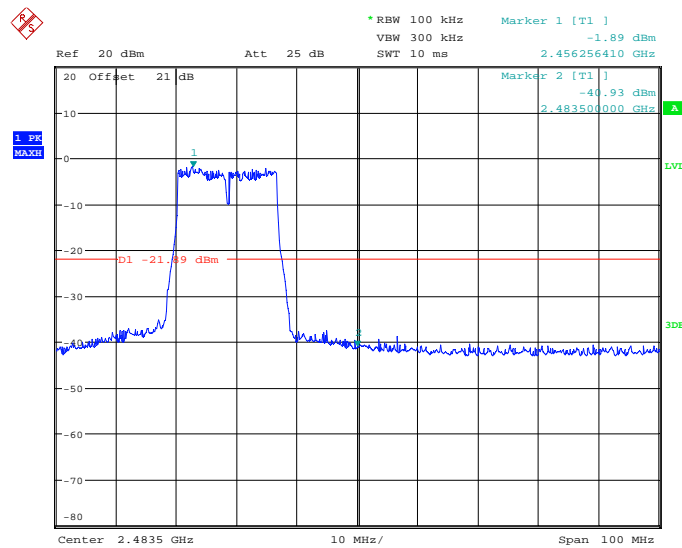
Date: 15.JAN.2013 15:31:52

Fig. 26 Band Edges (802.11b, Ch 11)



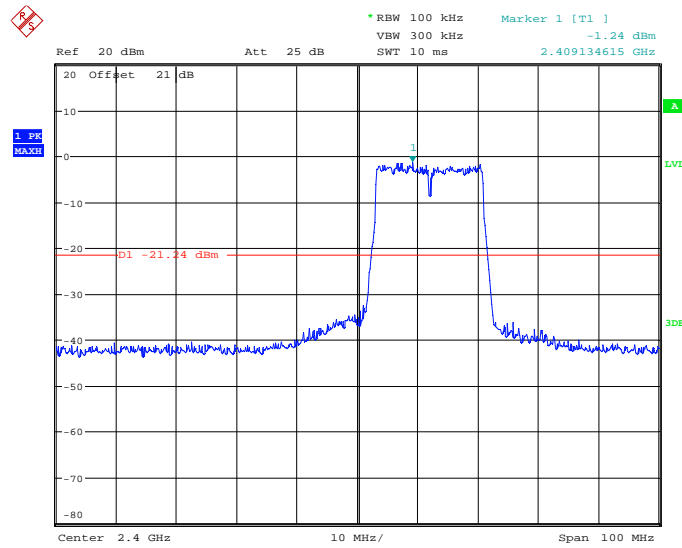
Date: 15.JAN.2013 15:33:03

Fig. 27 Band Edges (802.11g, Ch 1)



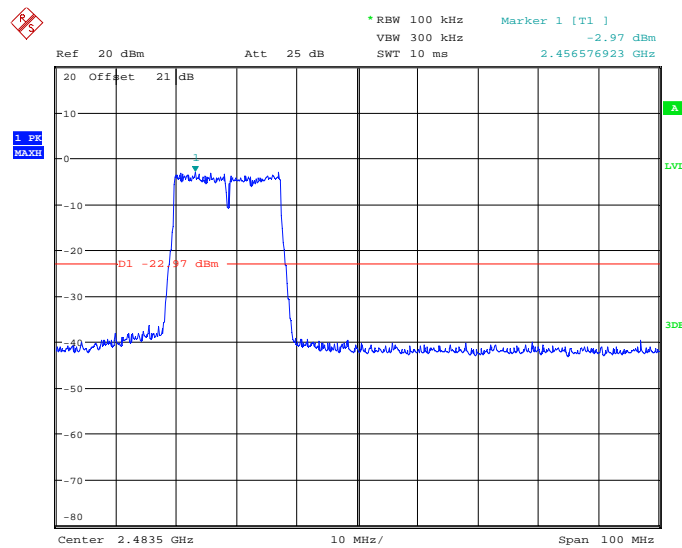
Date: 15.JAN.2013 15:34:20

Fig. 28 Band Edges (802.11g, Ch 11)



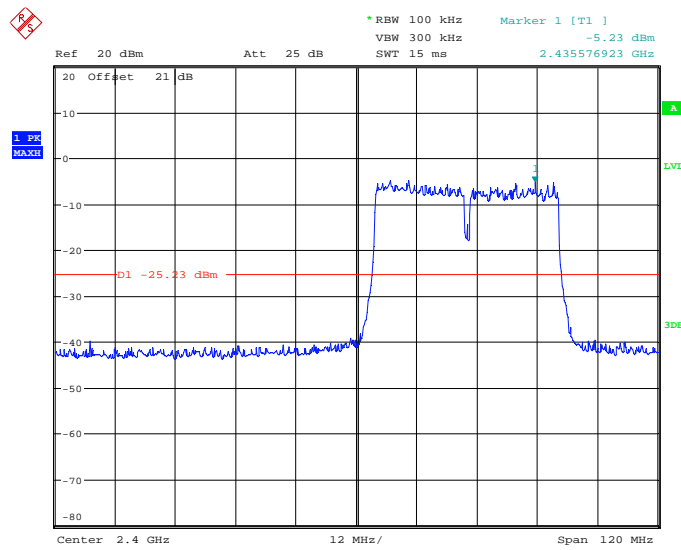
Date: 17.JAN.2013 10:20:53

Fig. 29 Band Edges (802.11n-20MHz, Ch 1)



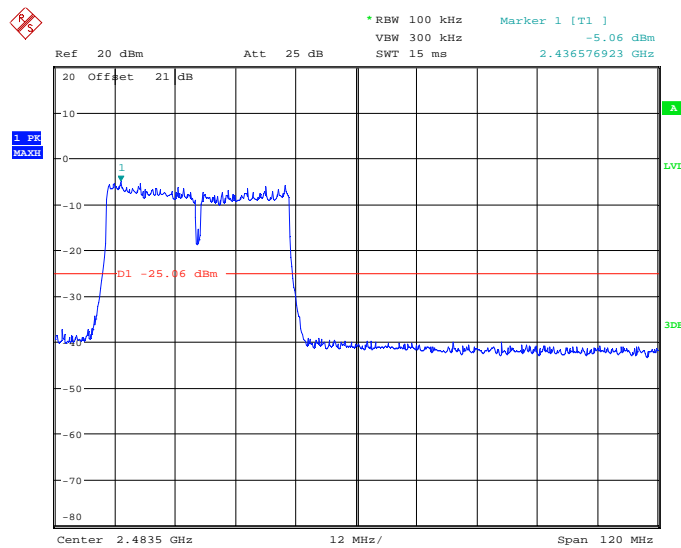
Date: 17.JAN.2013 10:22:33

Fig. 30 Band Edges (802.11n-20MHz, Ch 11)



Date: 17.JAN.2013 10:26:49

Fig. 31 Band Edges (802.11n-40MHz, Ch 3)



Date: 17.JAN.2013 10:26:13

Fig. 32 Band Edges (802.11n-40MHz, Ch 9)

A.6. Transmitter Spurious Emission

A.6.1 Transmitter Spurious Emission - Conducted

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247 (d)	20dB below peak output power in 100 kHz bandwidth

The measurement is made according to ANSI C63.10

Measurement Uncertainty:

Frequency Range	Uncertainty
$30\text{MHz} \leq f \leq 2\text{GHz}$	0.63
$2\text{GHz} \leq f \leq 3.6\text{GHz}$	0.82
$3.6\text{GHz} \leq f \leq 8\text{GHz}$	1.55
$8\text{GHz} \leq f \leq 20\text{GHz}$	1.86
$20\text{GHz} \leq f \leq 22\text{GHz}$	1.90
$22\text{GHz} \leq f \leq 26\text{GHz}$	2.20

Measurement Results:

802.11b/g mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11b	1	2.412 GHz	Fig.33	P
		30 MHz ~ 1 GHz	Fig.34	P
		1 GHz ~ 2.5 GHz	Fig.35	P
		2.5 GHz ~ 7.5 GHz	Fig.36	P
		7.5 GHz ~ 10 GHz	Fig.37	P
		10 GHz ~ 15 GHz	Fig.38	P
		15 GHz ~ 20 GHz	Fig.39	P
		20 GHz ~ 26 GHz	Fig.40	P
	6	2.437 GHz	Fig.41	P
		30 MHz ~ 1 GHz	Fig.42	P
		1 GHz ~ 2.5 GHz	Fig.43	P
		2.5 GHz ~ 7.5 GHz	Fig.44	P
		7.5 GHz ~ 10 GHz	Fig.45	P
		10 GHz ~ 15 GHz	Fig.46	P
		15 GHz ~ 20 GHz	Fig.47	P
		20 GHz ~ 26 GHz	Fig.48	P
	11	2.462 GHz	Fig.49	P
		30 MHz ~ 1 GHz	Fig.50	P
		1 GHz ~ 2.5 GHz	Fig.51	P
		2.5 GHz ~ 7.5 GHz	Fig.52	P

		7.5 GHz ~ 10 GHz	Fig.53	P
		10 GHz ~ 15 GHz	Fig.54	P
		15 GHz ~ 20 GHz	Fig.55	P
		20 GHz ~ 26 GHz	Fig.56	P
802.11g	1	2.412 GHz	Fig.57	P
		30 MHz ~ 1 GHz	Fig.58	P
		1 GHz ~ 2.5 GHz	Fig.59	P
		2.5 GHz ~ 7.5 GHz	Fig.60	P
		7.5 GHz ~ 10 GHz	Fig.61	P
		10 GHz ~ 15 GHz	Fig.62	P
		15 GHz ~ 20 GHz	Fig.63	P
		20 GHz ~ 26 GHz	Fig.64	P
	6	2.437 GHz	Fig.65	P
		30 MHz ~ 1 GHz	Fig.66	P
		1 GHz ~ 2.5 GHz	Fig.67	P
		2.5 GHz ~ 7.5 GHz	Fig.68	P
		7.5 GHz ~ 10 GHz	Fig.69	P
		10 GHz ~ 15 GHz	Fig.70	P
		15 GHz ~ 20 GHz	Fig.71	P
		20 GHz ~ 26 GHz	Fig.72	P
	11	2.462 GHz	Fig.73	P
		30 MHz ~ 1 GHz	Fig.74	P
		1 GHz ~ 2.5 GHz	Fig.75	P
		2.5 GHz ~ 7.5 GHz	Fig.76	P
		7.5 GHz ~ 10 GHz	Fig.77	P
		10 GHz ~ 15 GHz	Fig.78	P
		15 GHz ~ 20 GHz	Fig.79	P
		20 GHz ~ 26 GHz	Fig.80	P

802.11n-HT20 mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11n (20MHz)	1	2.412 GHz	Fig.81	P
		30 MHz ~ 1 GHz	Fig.82	P
		1 GHz ~ 2.5 GHz	Fig.83	P
		2.5 GHz ~ 7.5 GHz	Fig.84	P
		7.5 GHz ~ 10 GHz	Fig.85	P
		10 GHz ~ 15 GHz	Fig.86	P
		15 GHz ~ 20 GHz	Fig.87	P
		20 GHz ~ 26 GHz	Fig.88	P
	6	2.437 GHz	Fig.89	P
		30 MHz ~ 1 GHz	Fig.90	P
		1 GHz ~ 2.5 GHz	Fig.91	P
		2.5 GHz ~ 7.5 GHz	Fig.92	P
		7.5 GHz ~ 10 GHz	Fig.93	P
		10 GHz ~ 15 GHz	Fig.94	P
		15 GHz ~ 20 GHz	Fig.95	P
		20 GHz ~ 26 GHz	Fig.96	P
	11	2.462 GHz	Fig.97	P
		30 MHz ~ 1 GHz	Fig.98	P
		1 GHz ~ 2.5 GHz	Fig.99	P
		2.5 GHz ~ 7.5 GHz	Fig.100	P
		7.5 GHz ~ 10 GHz	Fig.101	P
		10 GHz ~ 15 GHz	Fig.102	P
		15 GHz ~ 20 GHz	Fig.103	P
		20 GHz ~ 26 GHz	Fig.104	P

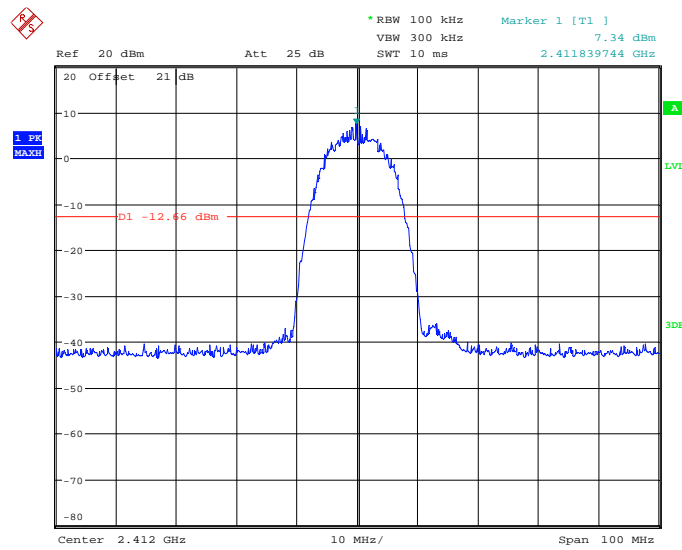
802.11n-HT40 mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11n (40MHz)	3	2.422 GHz	Fig.105	P
		30 MHz ~ 1 GHz	Fig.106	P
		1 GHz ~ 2.5 GHz	Fig.107	P
		2.5 GHz ~ 7.5 GHz	Fig.108	P
		7.5 GHz ~ 10 GHz	Fig.109	P
		10 GHz ~ 15 GHz	Fig.110	P
		15 GHz ~ 20 GHz	Fig.111	P
		20 GHz ~ 26 GHz	Fig.112	P
	6	2.437 GHz	Fig.113	P
		30 MHz ~ 1 GHz	Fig.114	P
		1 GHz ~ 2.5 GHz	Fig.115	P
		2.5 GHz ~ 7.5 GHz	Fig.116	P
		7.5 GHz ~ 10 GHz	Fig.117	P
		10 GHz ~ 15 GHz	Fig.118	P

		15 GHz ~ 20 GHz	Fig.119	P
		20 GHz ~ 26 GHz	Fig.120	P
	9	2.452 GHz	Fig.121	P
		30 MHz ~ 1 GHz	Fig.122	P
		1 GHz ~ 2.5 GHz	Fig.123	P
		2.5 GHz ~ 7.5 GHz	Fig.124	P
		7.5 GHz ~ 10 GHz	Fig.125	P
		10 GHz ~ 15 GHz	Fig.126	P
		15 GHz ~ 20 GHz	Fig.127	P
		20 GHz ~ 26 GHz	Fig.128	P

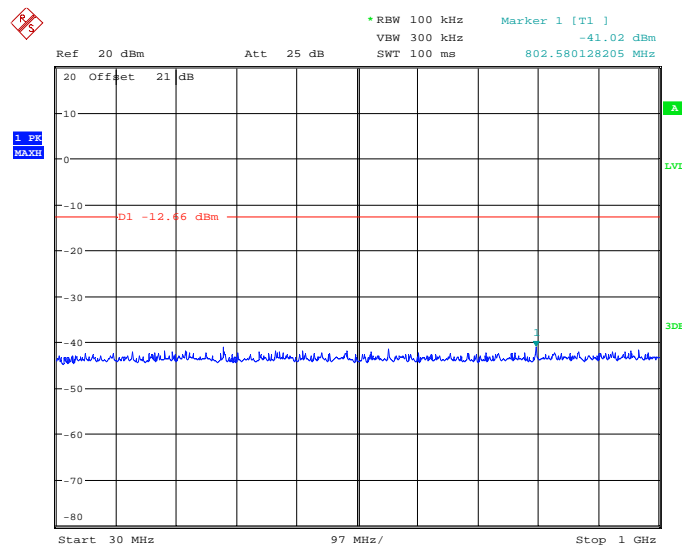
Conclusion: PASS

Test graphs as below:



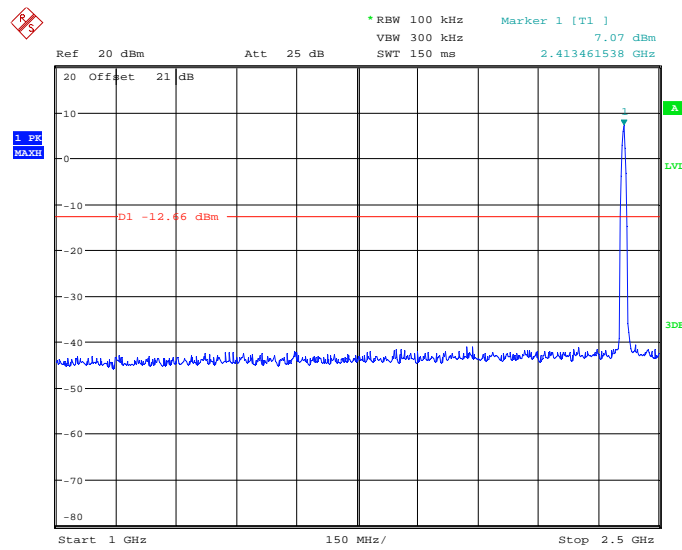
Date: 15.JAN.2013 15:45:13

Fig. 33 Conducted Spurious Emission (802.11b, Ch1, Center Frequency)



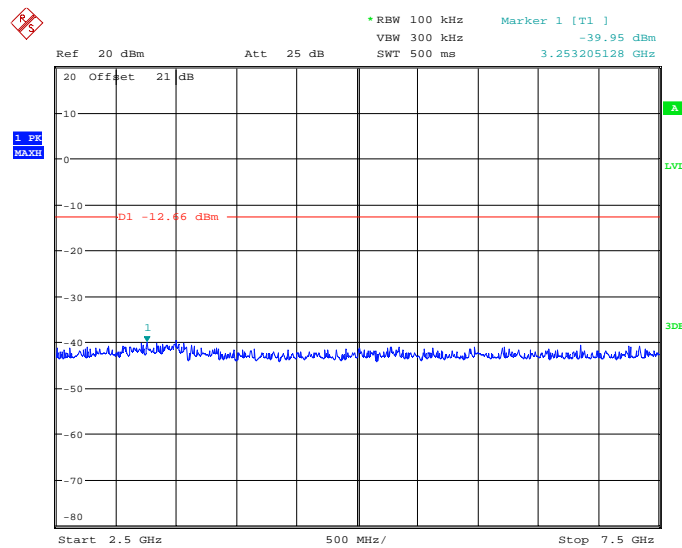
Date: 15.JAN.2013 15:46:11

Fig. 34 Conducted Spurious Emission (802.11b, Ch1, 30 MHz-1 GHz)



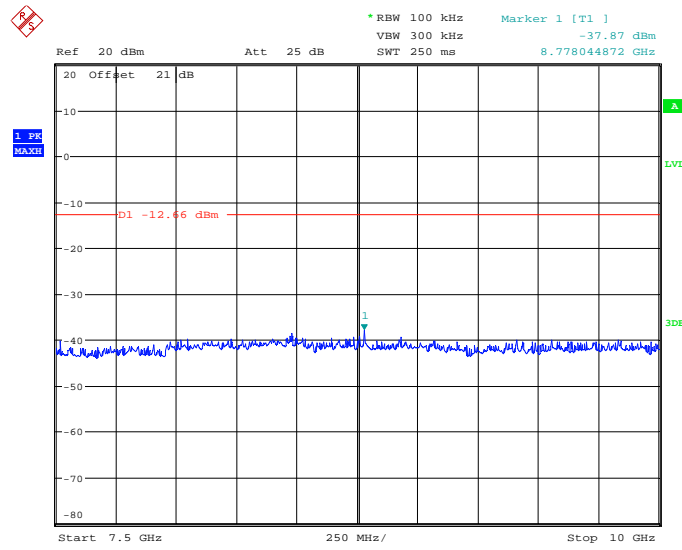
Date: 15.JAN.2013 15:46:25

Fig. 35 Conducted Spurious Emission (802.11b, Ch1, 1 GHz-2.5 GHz)



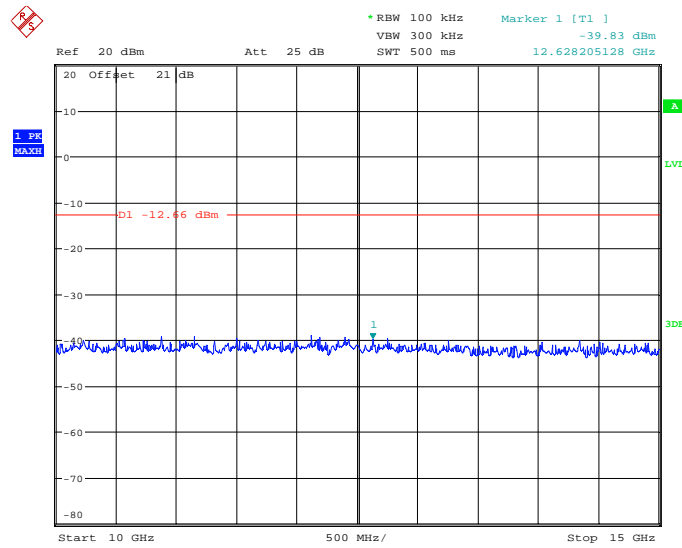
Date: 15.JAN.2013 15:46:41

Fig. 36 Conducted Spurious Emission (802.11b, Ch1, 2.5 GHz-7.5 GHz)



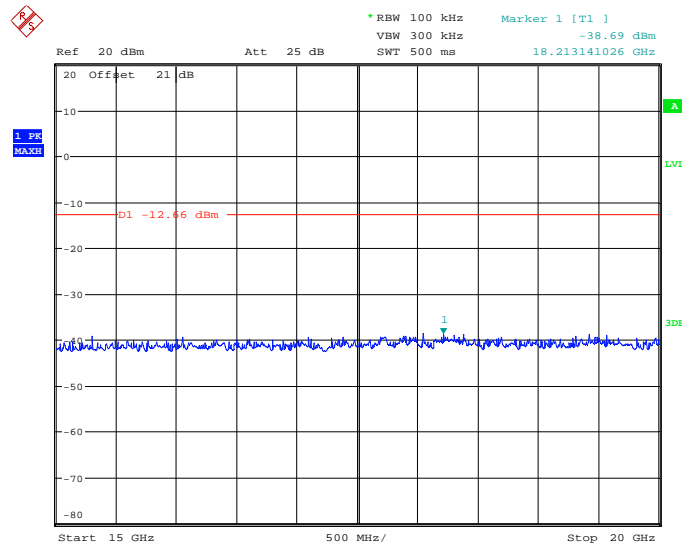
Date: 15.JAN.2013 15:47:08

Fig. 37 Conducted Spurious Emission (802.11b, Ch1, 7.5 GHz-10 GHz)



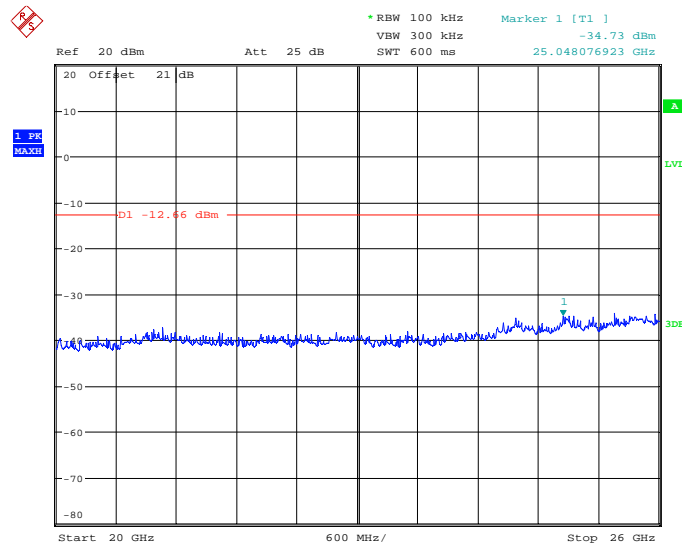
Date: 15.JAN.2013 15:47:25

Fig. 38 Conducted Spurious Emission (802.11b, Ch1, 10 GHz-15 GHz)



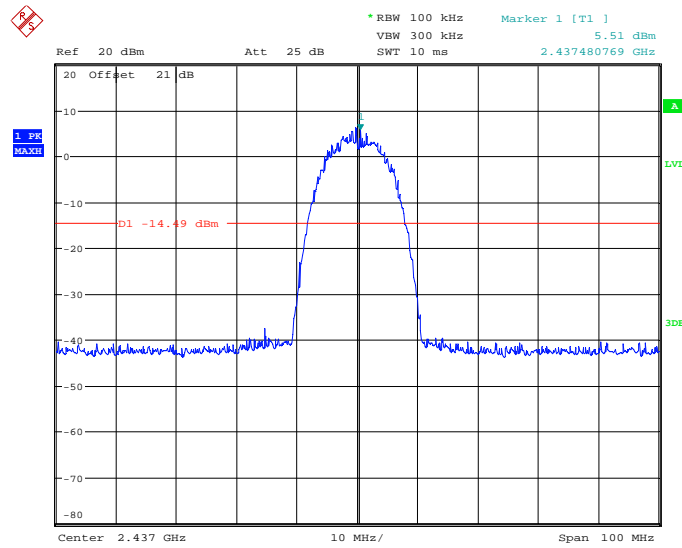
Date: 15.JAN.2013 15:47:44

Fig. 39 Conducted Spurious Emission (802.11b, Ch1, 15 GHz-20 GHz)



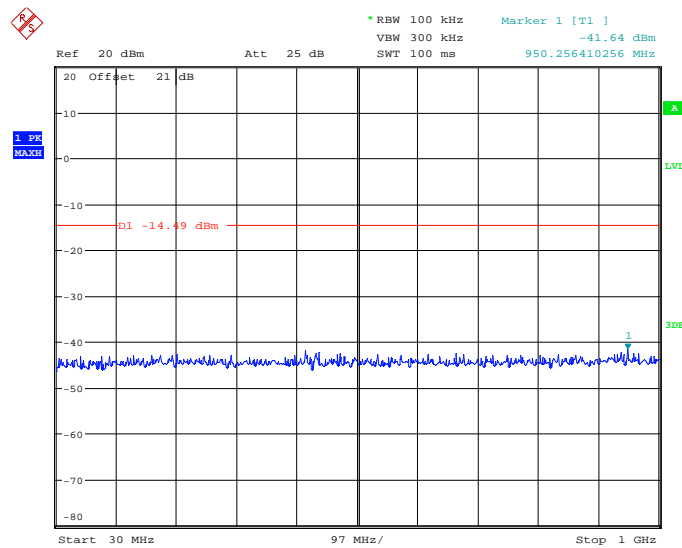
Date: 15.JAN.2013 15:48:03

Fig. 40 Conducted Spurious Emission (802.11b, Ch1, 20 GHz-26 GHz)



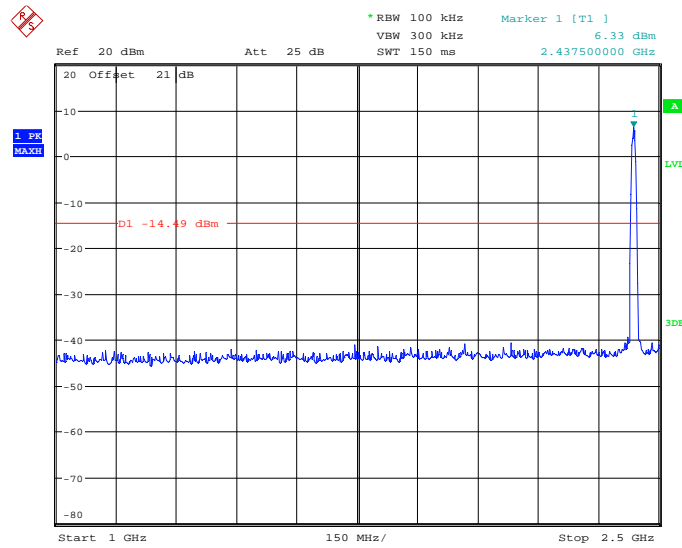
Date: 15.JAN.2013 15:49:44

Fig. 41 Conducted Spurious Emission (802.11b, Ch6, Center Frequency)



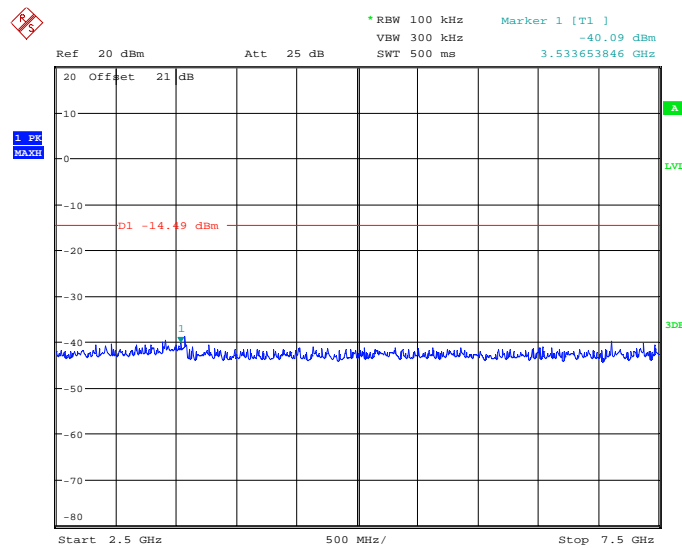
Date: 15.JAN.2013 15:50:56

Fig. 42 Conducted Spurious Emission (802.11b, Ch6, 30 MHz-1 GHz)



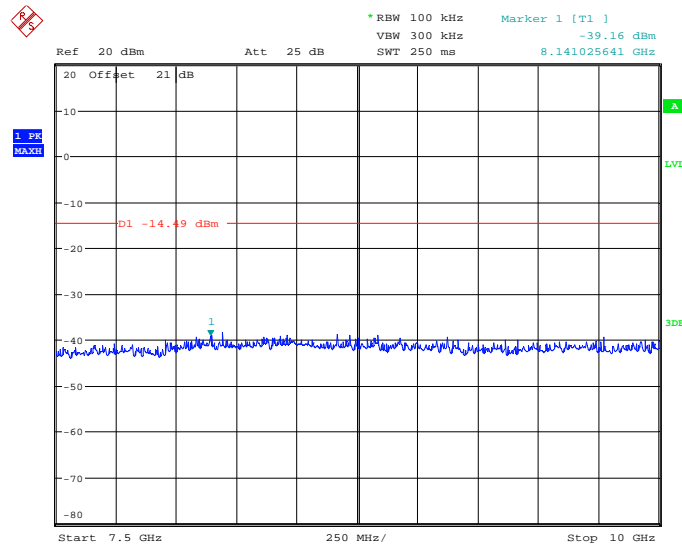
Date: 15.JAN.2013 15:51:10

Fig. 43 Conducted Spurious Emission (802.11b, Ch6, 1 GHz-2.5 GHz)



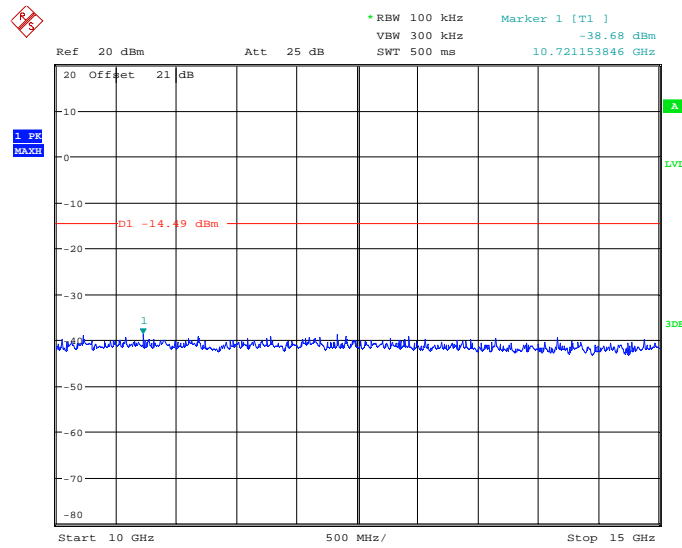
Date: 15.JAN.2013 15:51:26

Fig. 44 Conducted Spurious Emission (802.11b, Ch6, 2.5 GHz-7.5 GHz)



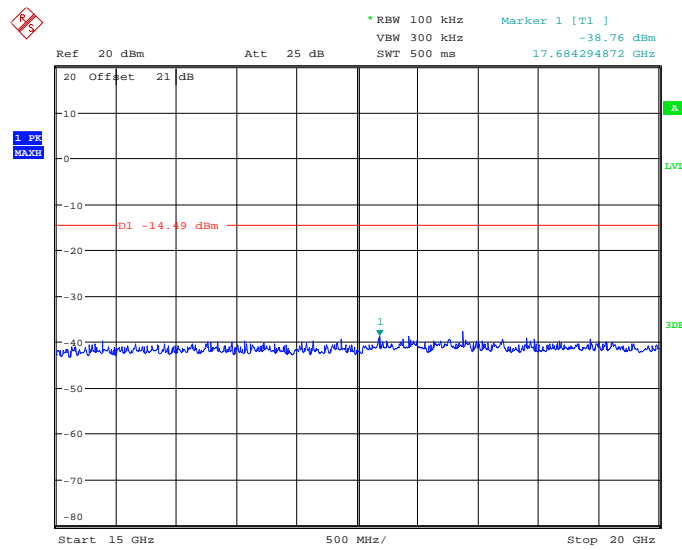
Date: 15.JAN.2013 15:51:42

Fig. 45 Conducted Spurious Emission (802.11b, Ch6, 7.5 GHz-10 GHz)



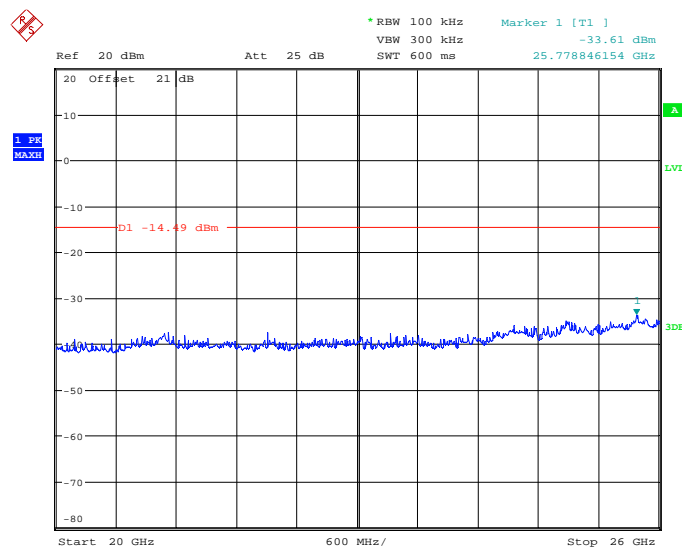
Date: 15.JAN.2013 15:52:07

Fig. 46 Conducted Spurious Emission (802.11b, Ch6, 10 GHz-15 GHz)



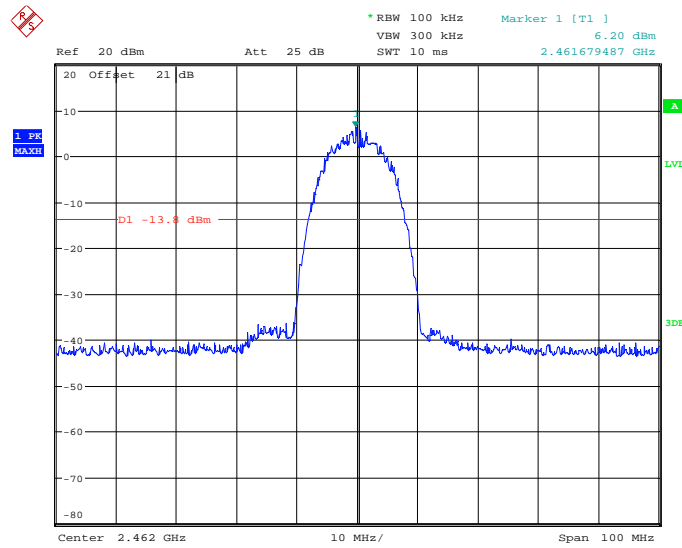
Date: 15.JAN.2013 15:52:19

Fig. 47 Conducted Spurious Emission (802.11b, Ch6, 15 GHz-20 GHz)



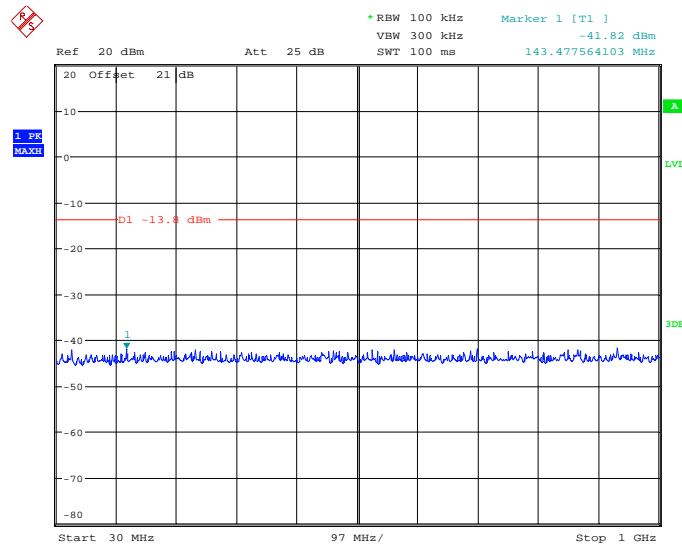
Date: 15.JAN.2013 15:52:38

Fig. 48 Conducted Spurious Emission (802.11b, Ch6, 20 GHz-26 GHz)



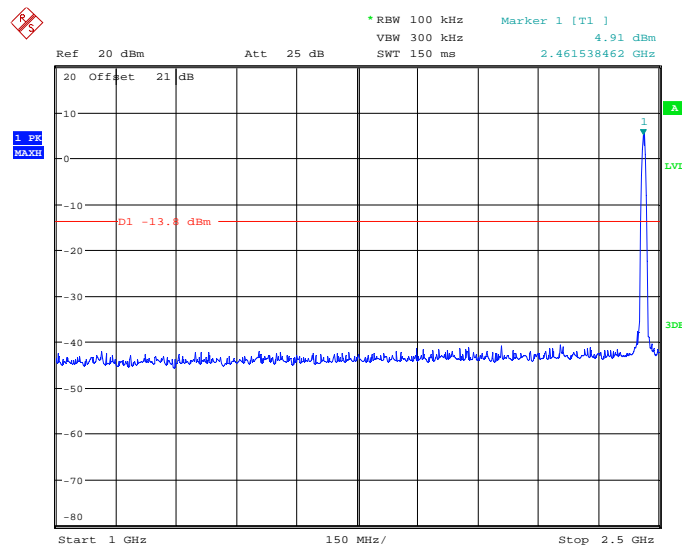
Date: 15.JAN.2013 15:53:34

Fig. 49 Conducted Spurious Emission (802.11b, Ch11, Center Frequency)



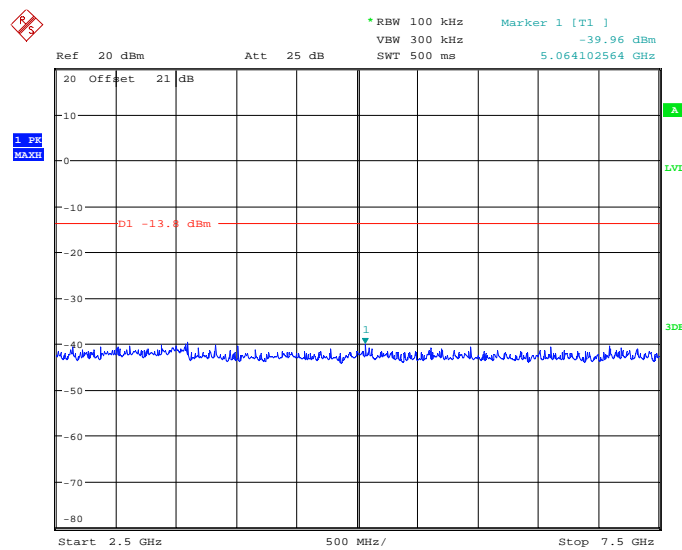
Date: 15.JAN.2013 15:55:00

Fig. 50 Conducted Spurious Emission (802.11b, Ch11, 30 MHz-1 GHz)



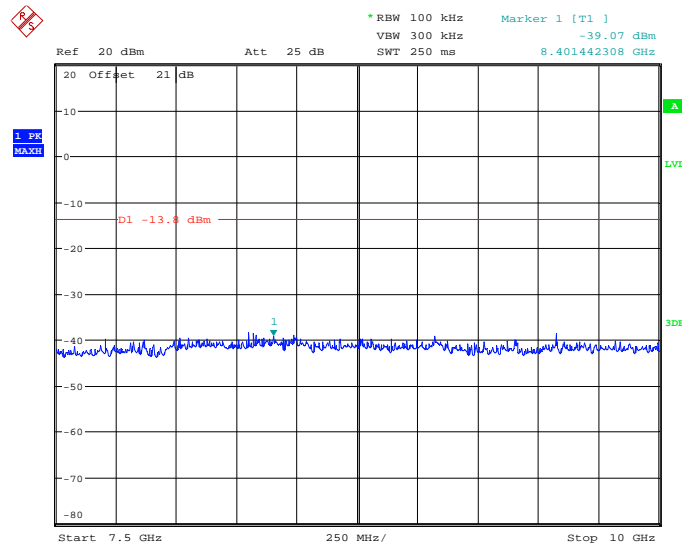
Date: 15.JAN.2013 15:55:30

Fig. 51 Conducted Spurious Emission (802.11b, Ch11, 1 GHz-2.5 GHz)



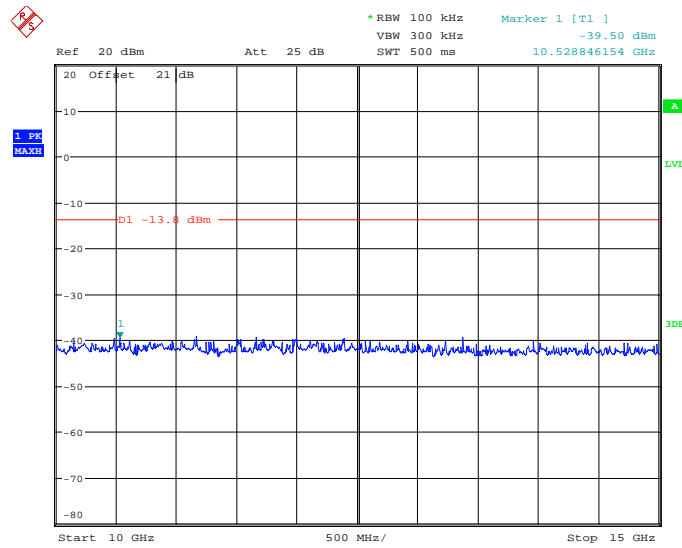
Date: 15.JAN.2013 15:55:52

Fig. 52 Conducted Spurious Emission (802.11b, Ch11, 2.5 GHz-7.5 GHz)



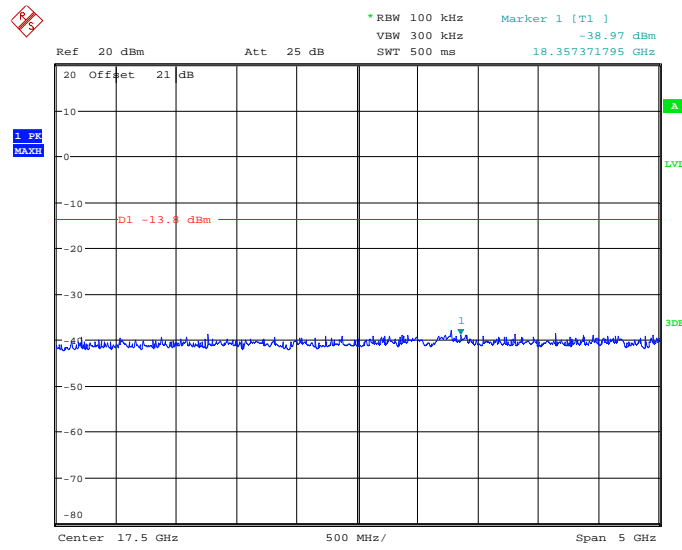
Date: 15.JAN.2013 15:56:08

Fig. 53 Conducted Spurious Emission (802.11b, Ch11, 7.5 GHz-10 GHz)



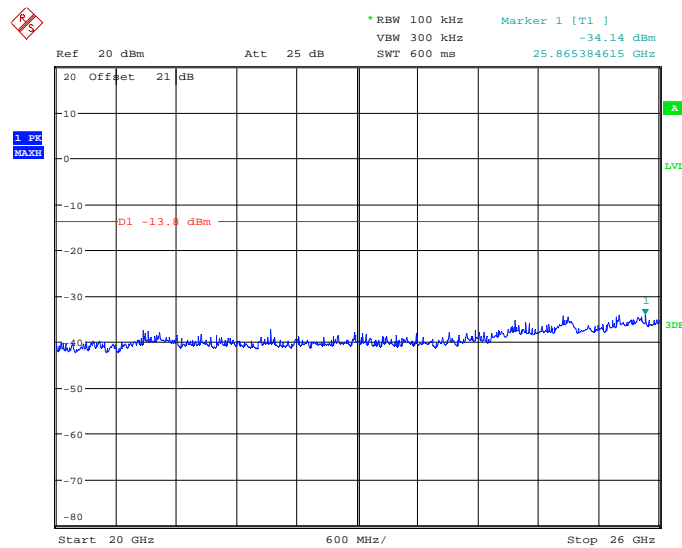
Date: 15.JAN.2013 15:56:26

Fig. 54 Conducted Spurious Emission (802.11b, Ch11, 10 GHz-15 GHz)



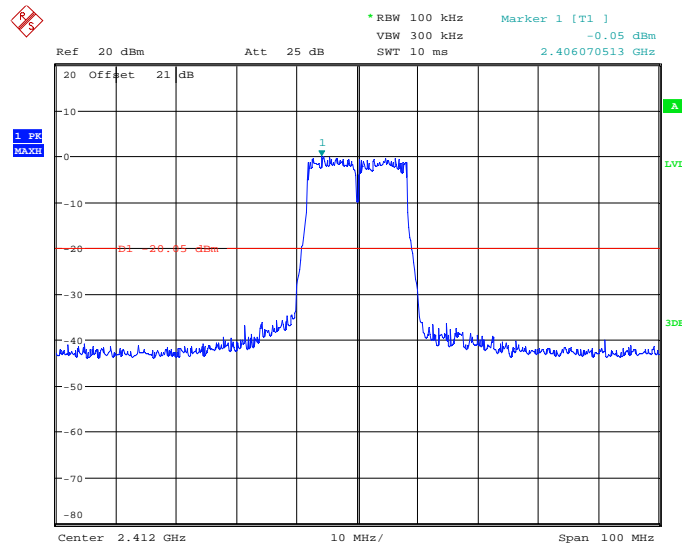
Date: 15.JAN.2013 15:57:01

Fig. 55 Conducted Spurious Emission (802.11b, Ch11, 15 GHz-20 GHz)



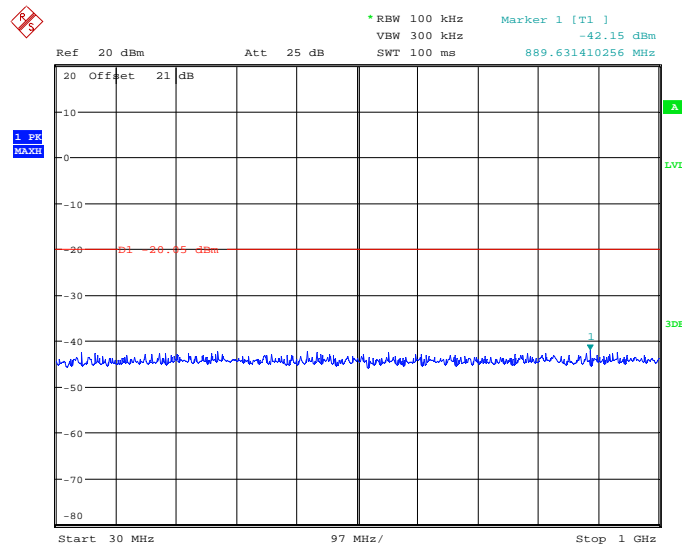
Date: 15.JAN.2013 15:57:18

Fig. 56 Conducted Spurious Emission (802.11b, Ch11, 20 GHz-26 GHz)



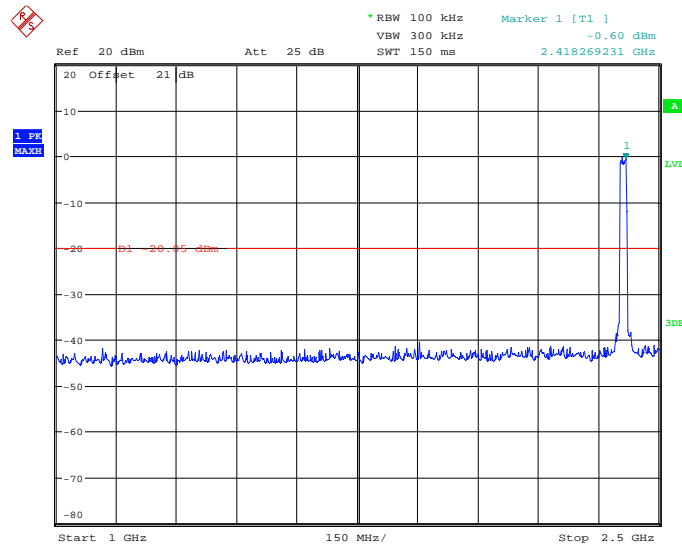
Date: 15.JAN.2013 15:59:54

Fig. 57 Conducted Spurious Emission (802.11g, Ch1, Center Frequency)



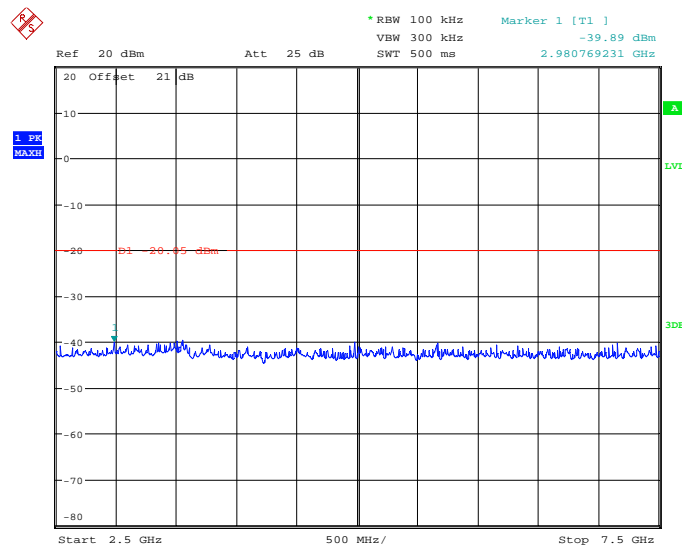
Date: 15.JAN.2013 16:00:12

Fig. 58 Conducted Spurious Emission (802.11g, Ch1, 30 MHz-1 GHz)



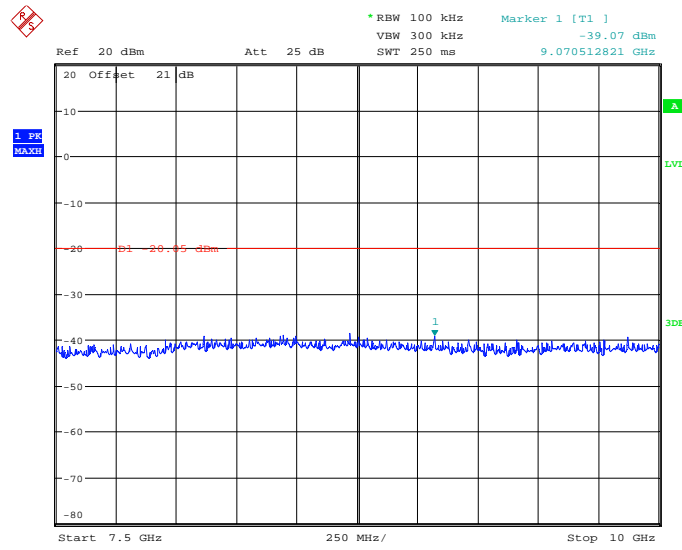
Date: 15.JAN.2013 16:00:30

Fig. 59 Conducted Spurious Emission (802.11g, Ch1, 1 GHz-2.5 GHz)



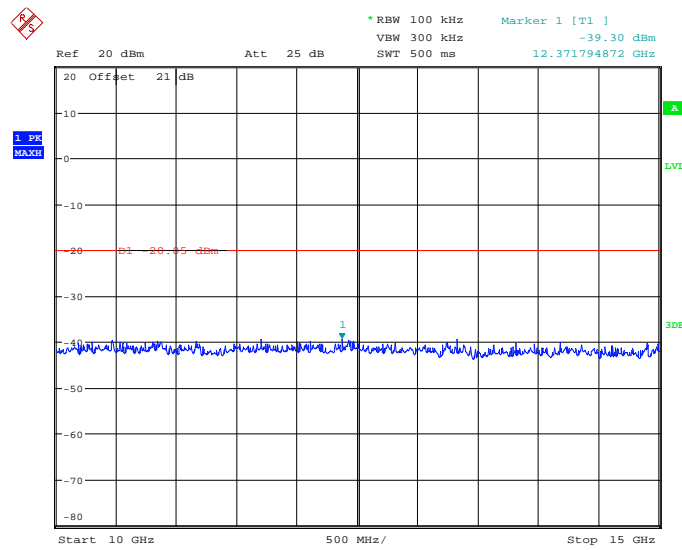
Date: 15.JAN.2013 16:00:45

Fig. 60 Conducted Spurious Emission (802.11g, Ch1, 2.5 GHz-7.5 GHz)



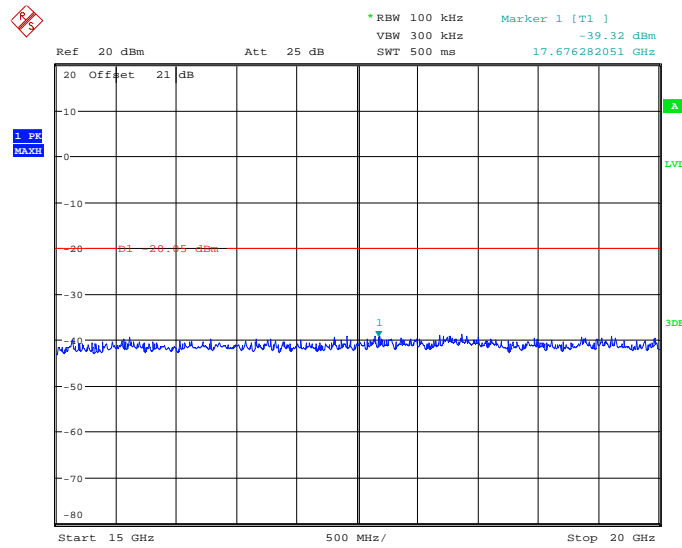
Date: 15.JAN.2013 16:00:59

Fig. 61 Conducted Spurious Emission (802.11g, Ch1, 7.5 GHz-10 GHz)



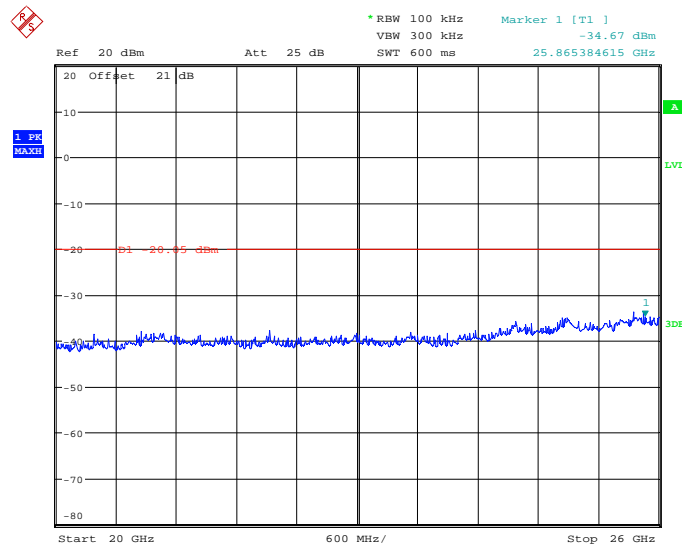
Date: 15.JAN.2013 16:01:13

Fig. 62 Conducted Spurious Emission (802.11g, Ch1, 10 GHz-15 GHz)



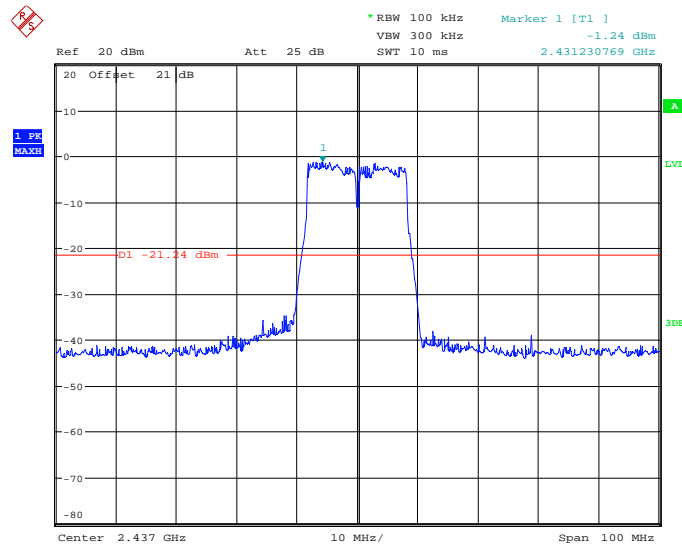
Date: 15.JAN.2013 16:01:30

Fig. 63 Conducted Spurious Emission (802.11g, Ch1, 15 GHz-20 GHz)



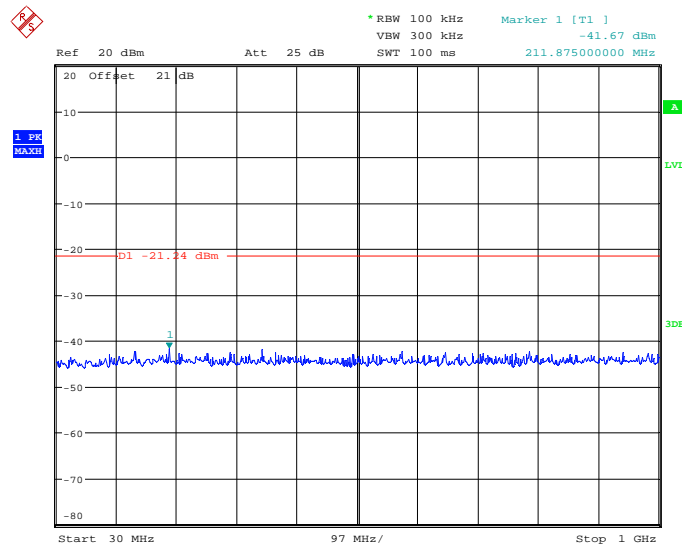
Date: 15.JAN.2013 16:01:45

Fig. 64 Conducted Spurious Emission (802.11g, Ch1, 20 GHz-26 GHz)



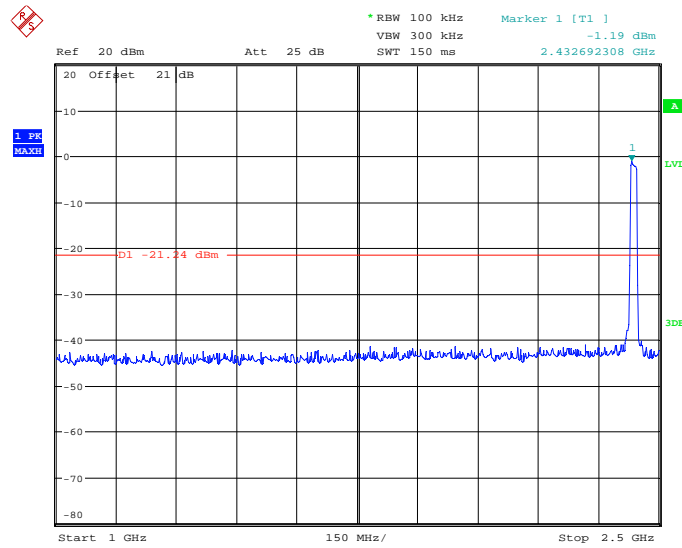
Date: 15.JAN.2013 16:02:39

Fig. 65 Conducted Spurious Emission (802.11g, Ch6, Center Frequency)



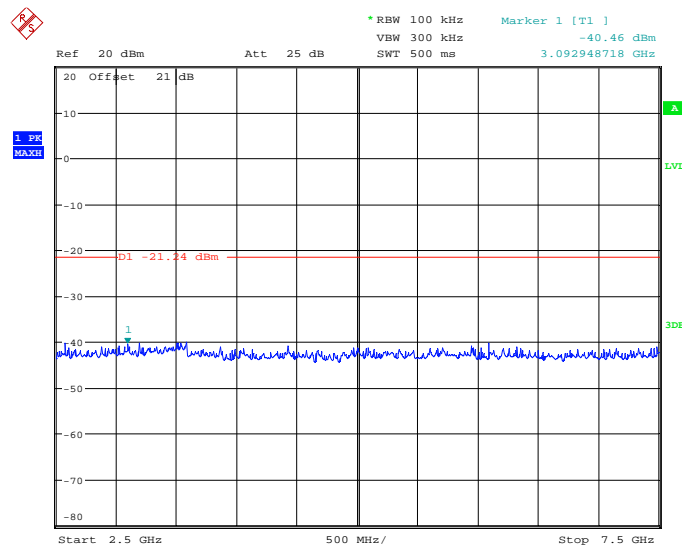
Date: 15.JAN.2013 16:03:00

Fig. 66 Conducted Spurious Emission (802.11g, Ch6, 30 MHz-1 GHz)



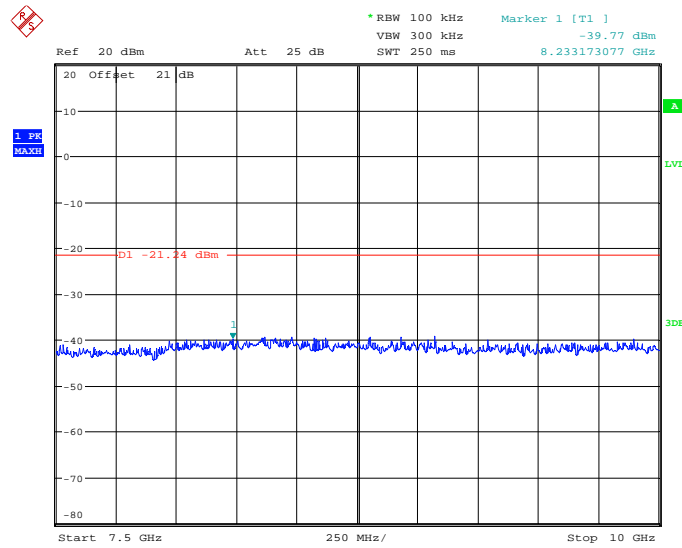
Date: 15.JAN.2013 16:03:17

Fig. 67 Conducted Spurious Emission (802.11g, Ch6, 1 GHz-2.5 GHz)



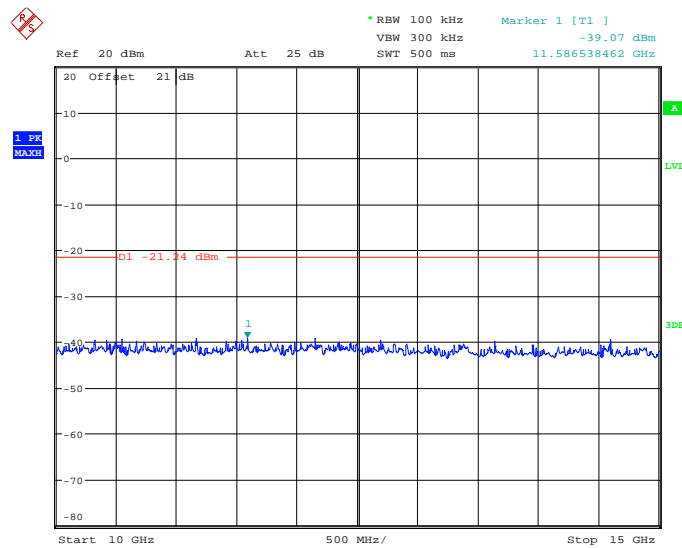
Date: 15.JAN.2013 16:03:32

Fig. 68 Conducted Spurious Emission (802.11g, Ch6, 2.5 GHz-7.5 GHz)



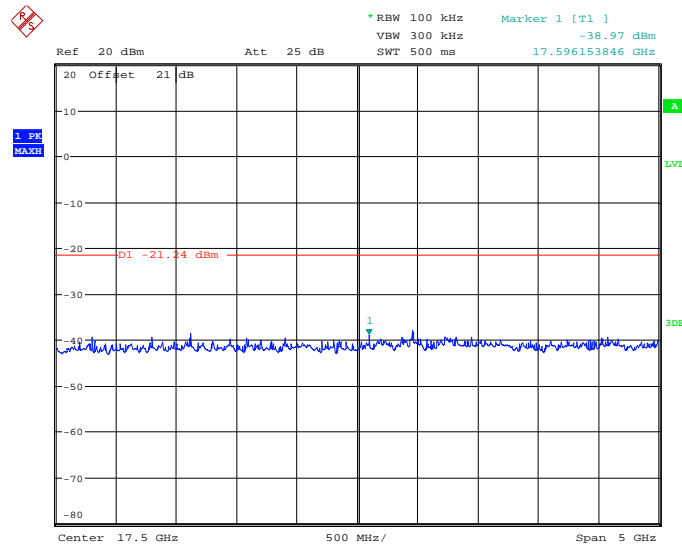
Date: 15.JAN.2013 16:03:47

Fig. 69 Conducted Spurious Emission (802.11g, Ch6, 7.5 GHz-10 GHz)



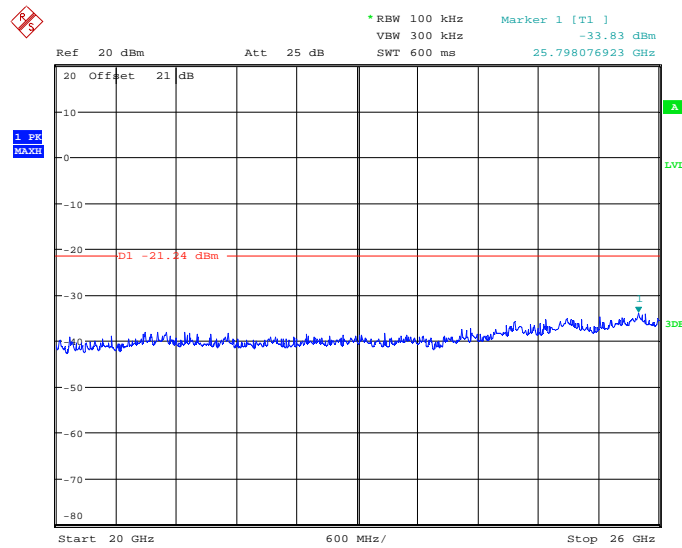
Date: 15.JAN.2013 16:04:00

Fig. 70 Conducted Spurious Emission (802.11g, Ch6, 10 GHz-15 GHz)



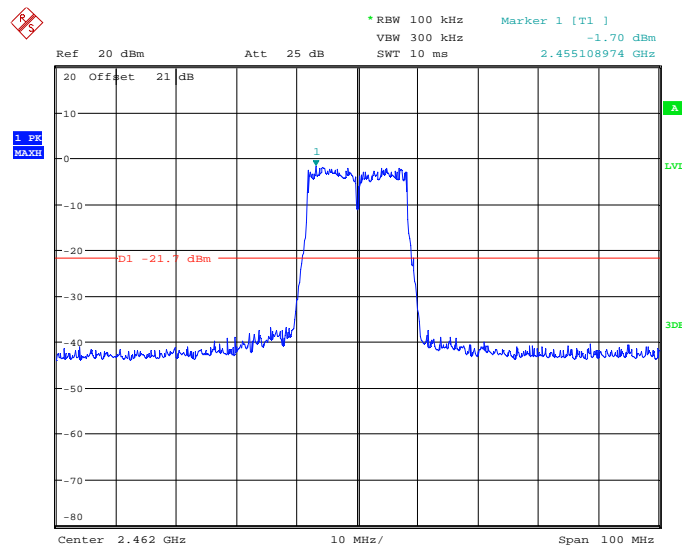
Date: 15.JAN.2013 16:04:12

Fig. 71 Conducted Spurious Emission (802.11g, Ch6, 15 GHz-20 GHz)



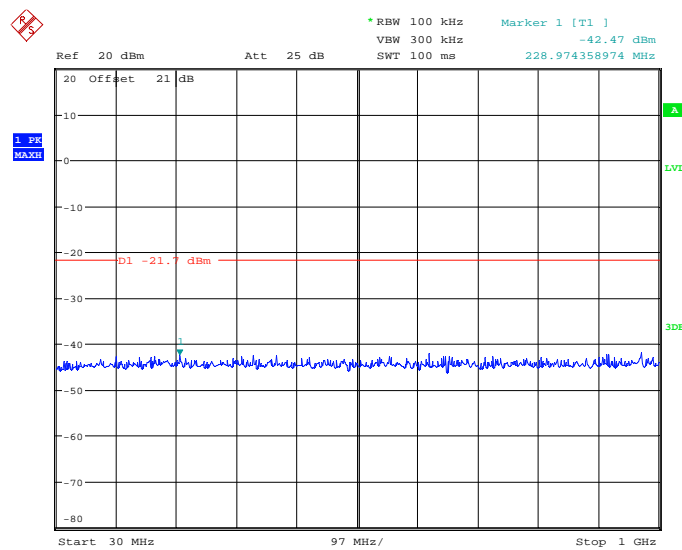
Date: 15.JAN.2013 16:04:24

Fig. 72 Conducted Spurious Emission (802.11g, Ch6, 20 GHz-26 GHz)



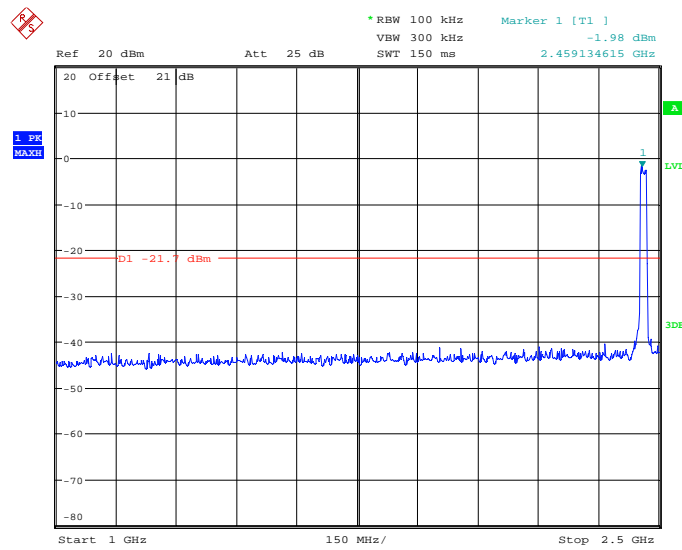
Date: 15.JAN.2013 16:05:50

Fig. 73 Conducted Spurious Emission (802.11g, Ch11, Center Frequency)



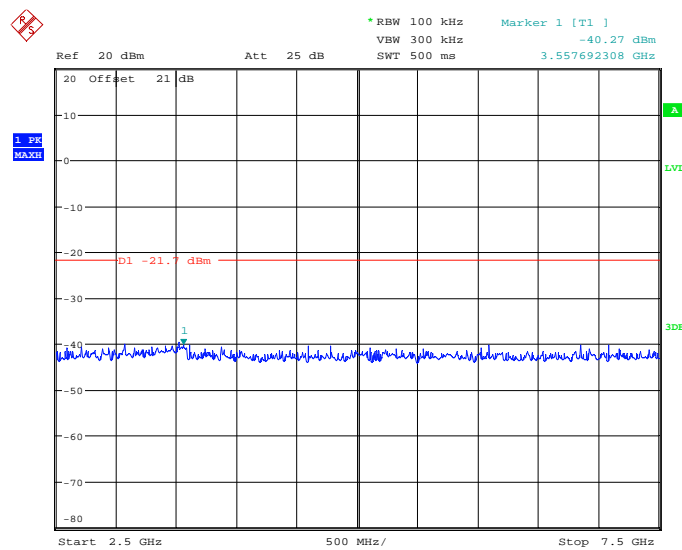
Date: 15.JAN.2013 16:06:07

Fig. 74 Conducted Spurious Emission (802.11g, Ch11, 30 MHz-1 GHz)



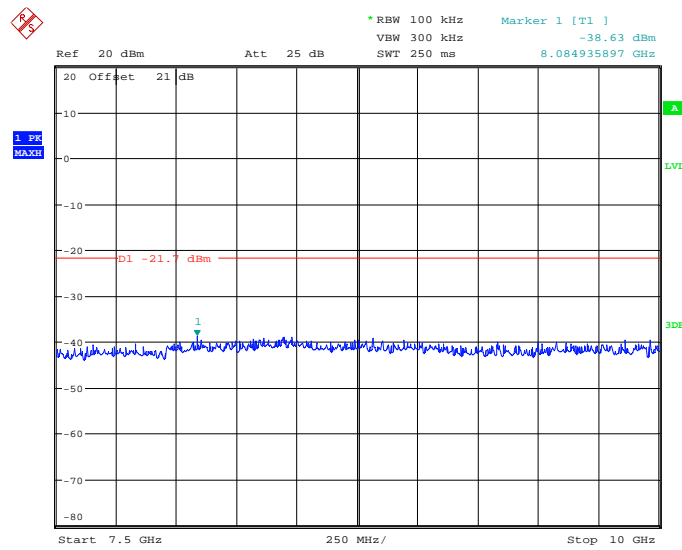
Date: 15.JAN.2013 16:06:24

Fig. 75 Conducted Spurious Emission (802.11g, Ch11, 1 GHz-2.5 GHz)



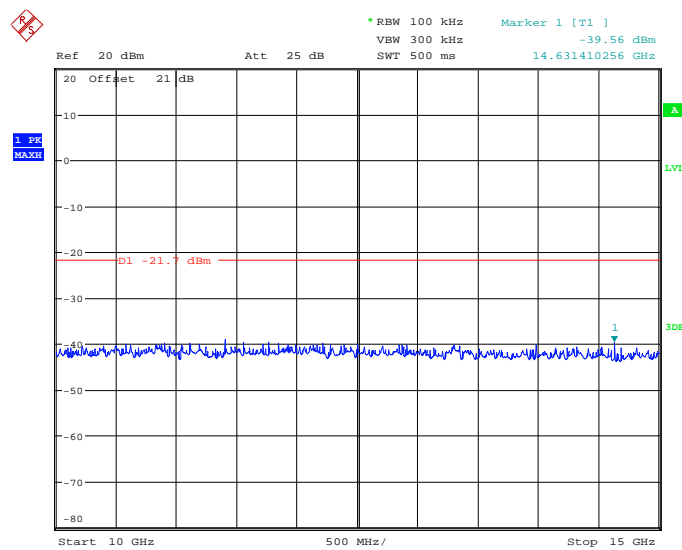
Date: 15.JAN.2013 16:06:39

Fig. 76 Conducted Spurious Emission (802.11g, Ch11, 2.5 GHz-7.5 GHz)



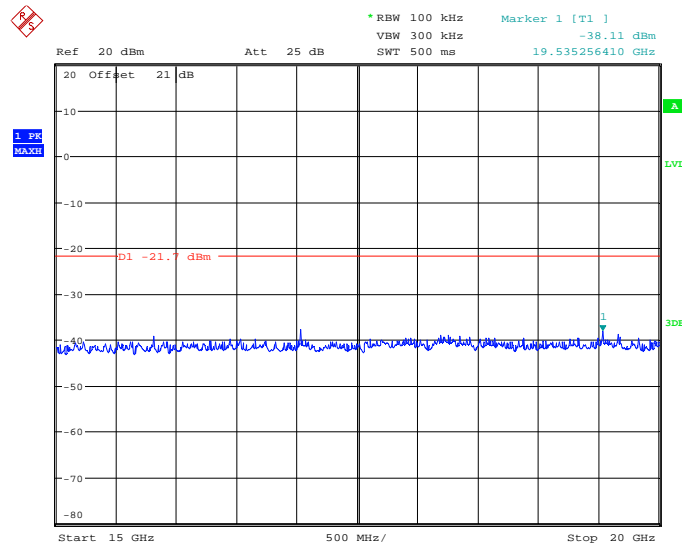
Date: 15.JAN.2013 16:06:57

Fig. 77 Conducted Spurious Emission (802.11g, Ch11, 7.5 GHz-10 GHz)



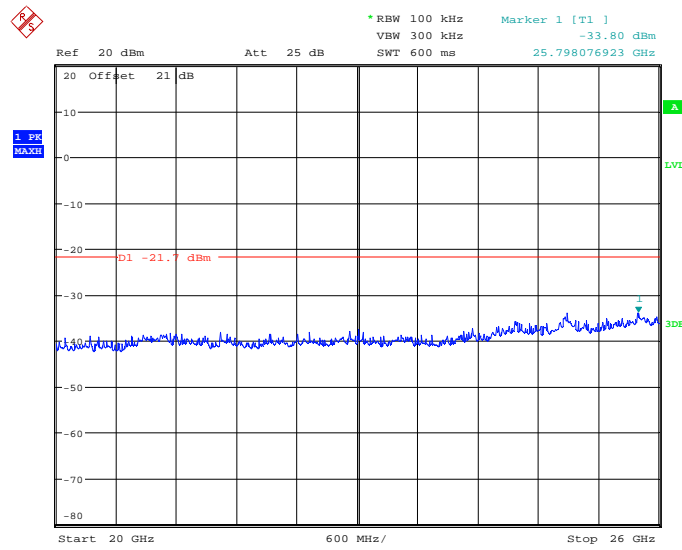
Date: 15.JAN.2013 16:07:13

Fig. 78 Conducted Spurious Emission (802.11g, Ch11, 10 GHz-15 GHz)



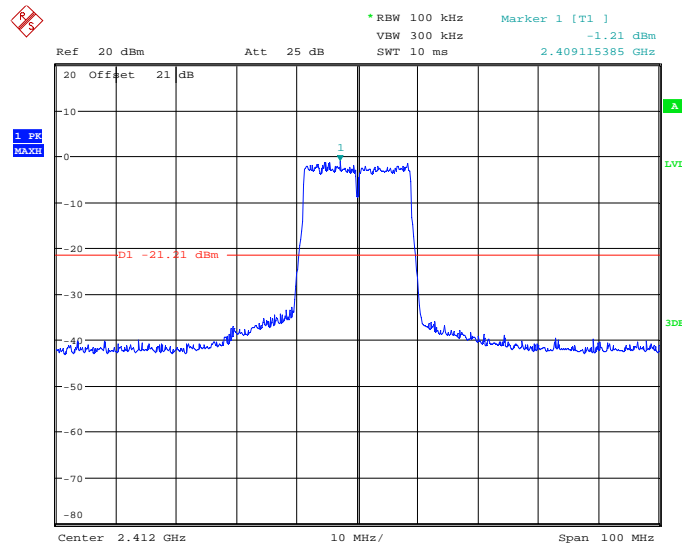
Date: 15.JAN.2013 16:07:25

Fig. 79 Conducted Spurious Emission (802.11g, Ch11, 15 GHz-20 GHz)



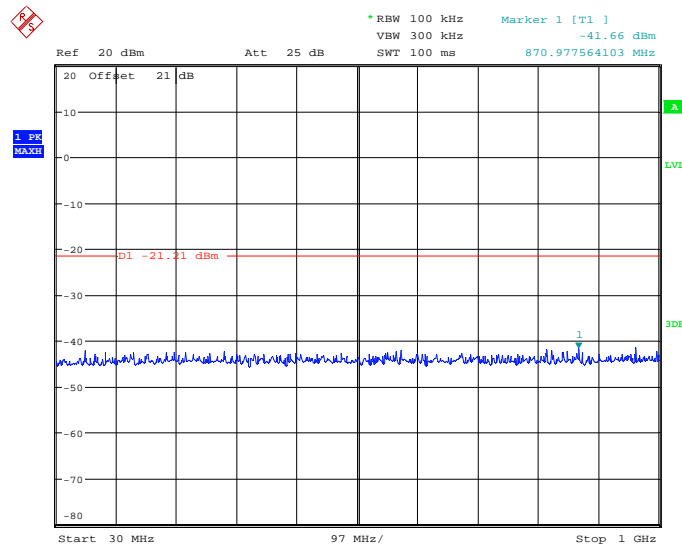
Date: 15.JAN.2013 16:07:38

Fig. 80 Conducted Spurious Emission (802.11g, Ch11, 20 GHz-26 GHz)



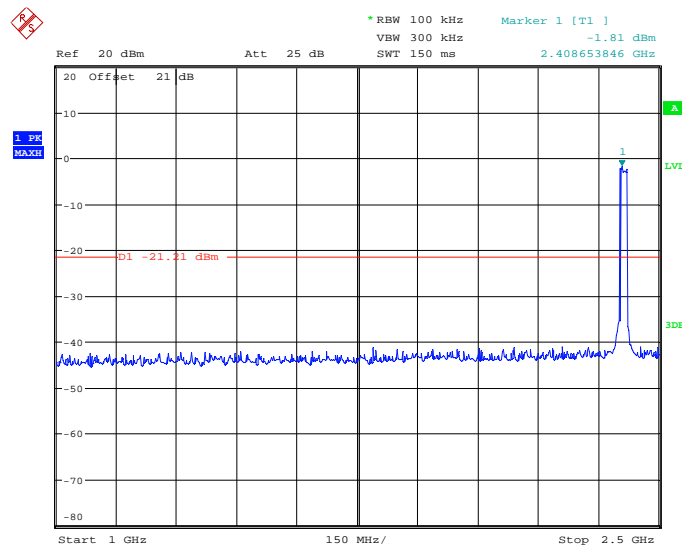
Date: 17.JAN.2013 10:30:33

Fig. 81 Conducted Spurious Emission (802.11n-HT20, Ch1, Center Frequency)



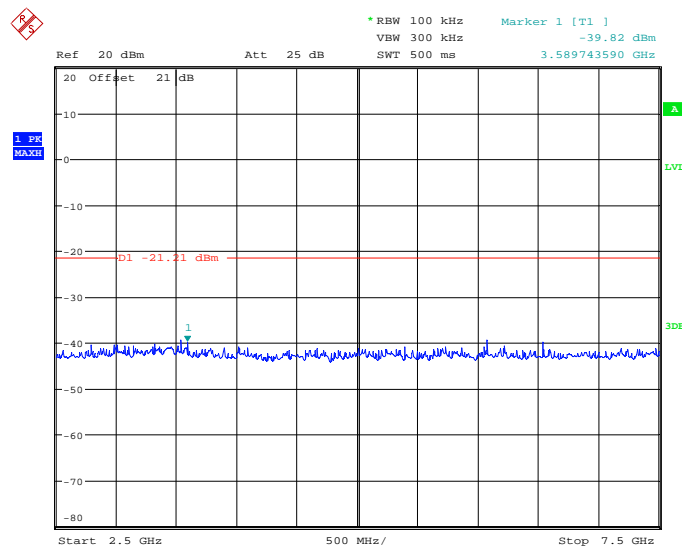
Date: 17.JAN.2013 10:31:00

Fig. 82 Conducted Spurious Emission (802.11n-HT20, Ch1, 30 MHz-1 GHz)



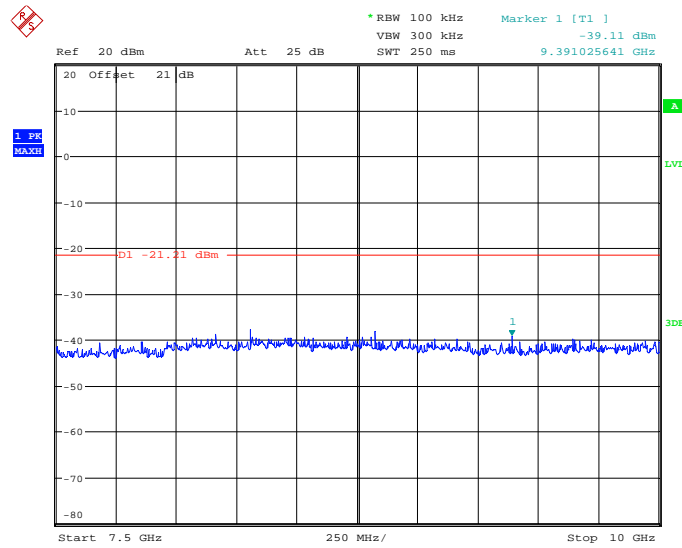
Date: 17.JAN.2013 10:31:14

Fig. 83 Conducted Spurious Emission (802.11n-HT20, Ch1, 1 GHz-2.5 GHz)



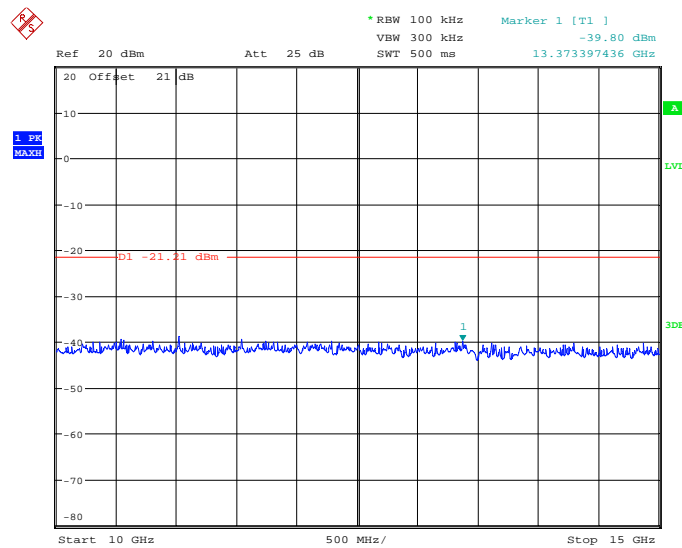
Date: 17.JAN.2013 10:31:31

Fig. 84 Conducted Spurious Emission (802.11n-HT20, Ch1, 2.5 GHz-7.5 GHz)



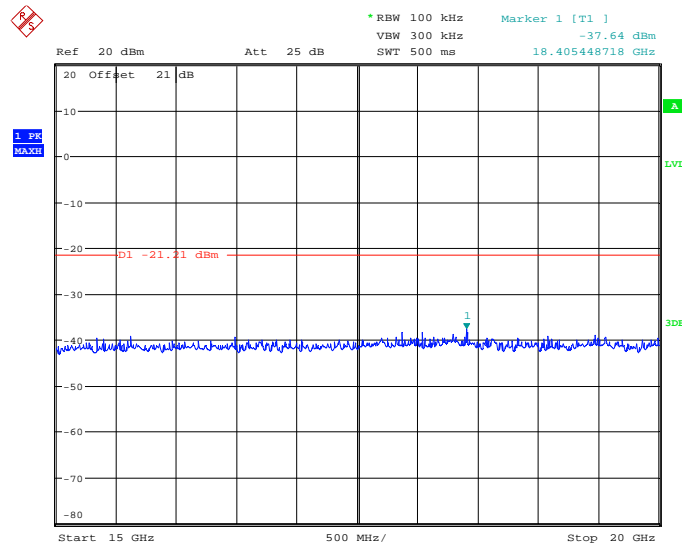
Date: 17.JAN.2013 10:31:49

Fig. 85 Conducted Spurious Emission (802.11n-HT20, Ch1, 7.5 GHz-10 GHz)



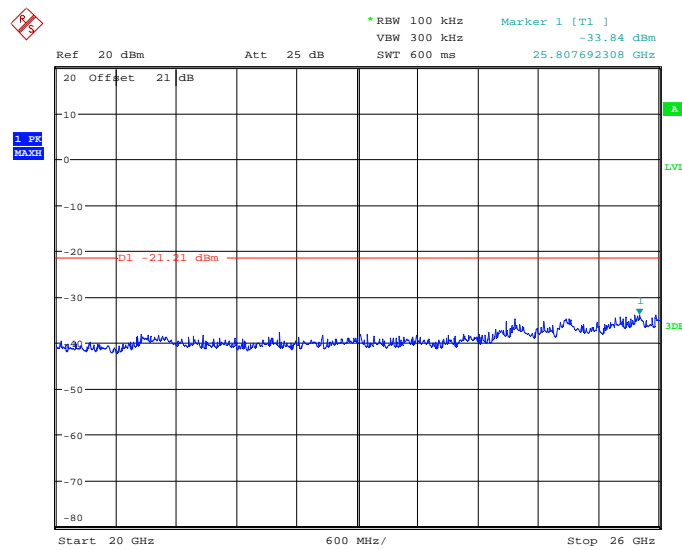
Date: 17.JAN.2013 10:32:01

Fig. 86 Conducted Spurious Emission (802.11n-HT20, Ch1, 10 GHz-15 GHz)



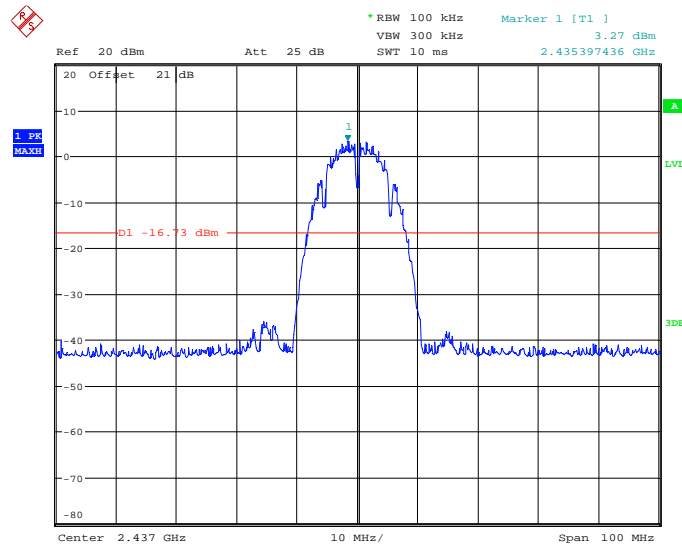
Date: 17.JAN.2013 10:32:15

Fig. 87 Conducted Spurious Emission (802.11n-HT20, Ch1, 15 GHz-20 GHz)



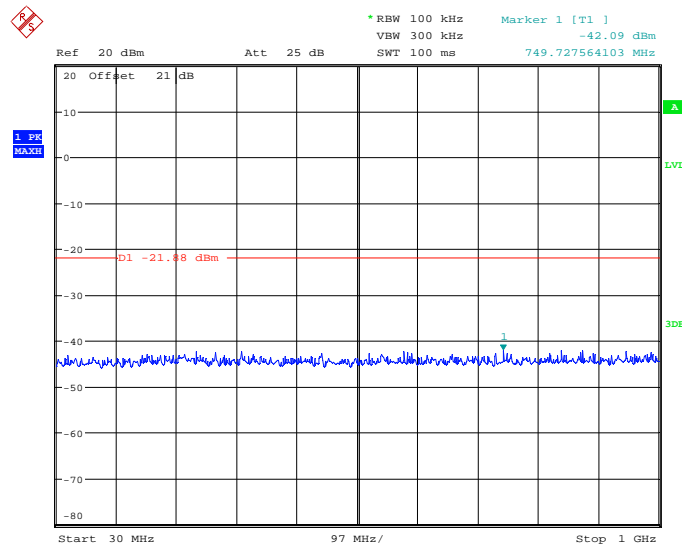
Date: 17.JAN.2013 10:32:34

Fig. 88 Conducted Spurious Emission (802.11n-HT20, Ch1, 20 GHz-26 GHz)



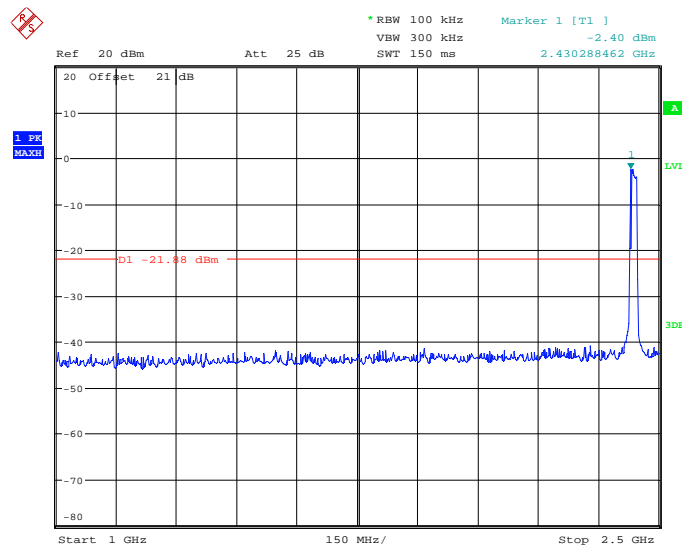
Date: 15.JAN.2013 16:23:09

Fig. 89 Conducted Spurious Emission (802.11n-HT20, Ch6, Center Frequency)



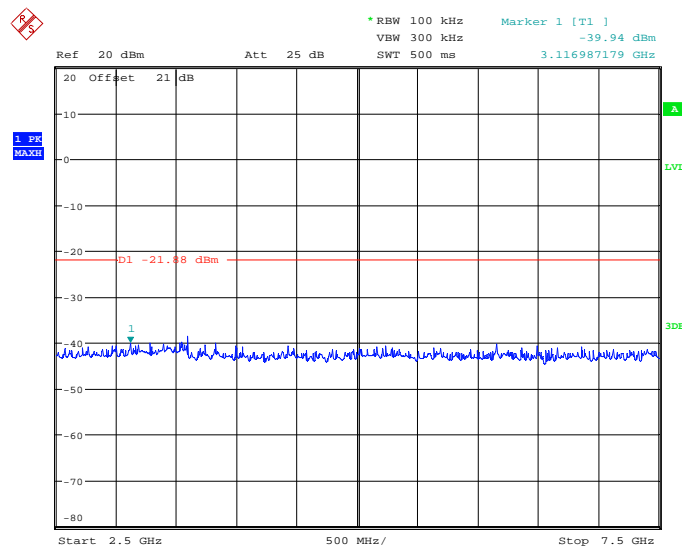
Date: 17.JAN.2013 10:34:17

Fig. 90 Conducted Spurious Emission (802.11n-HT20, Ch6, 30 MHz-1 GHz)



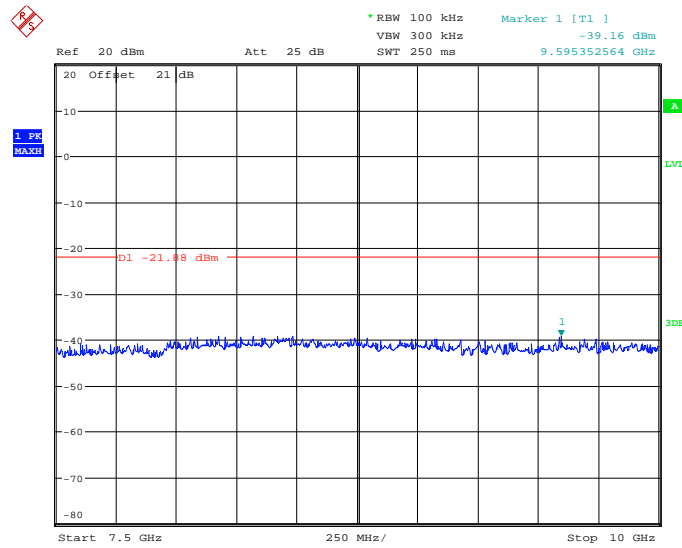
Date: 17.JAN.2013 10:34:29

Fig. 91 Conducted Spurious Emission (802.11n-HT20, Ch6, 1 GHz-2.5 GHz)



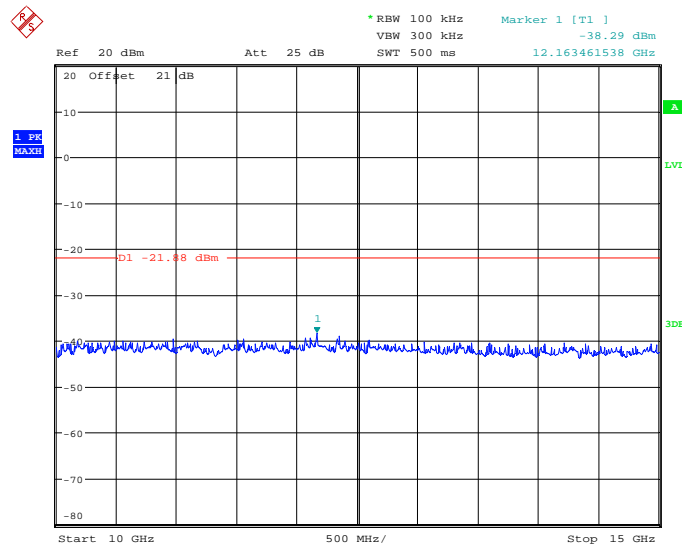
Date: 17.JAN.2013 10:34:43

Fig. 92 Conducted Spurious Emission (802.11n-HT20, Ch6, 2.5 GHz-7.5 GHz)



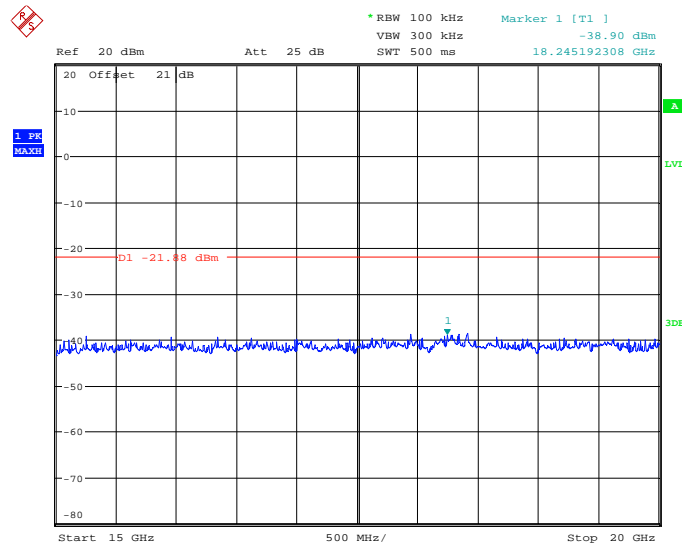
Date: 17.JAN.2013 10:34:59

Fig. 93 Conducted Spurious Emission (802.11n-HT20, Ch6, 7.5 GHz-10 GHz)



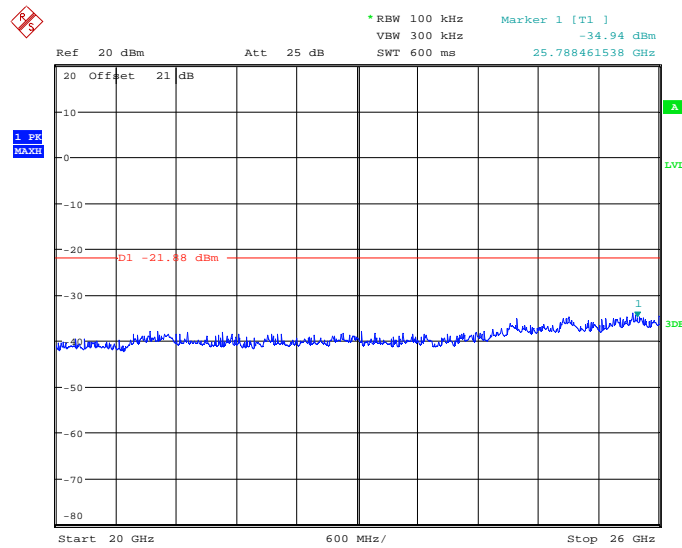
Date: 17.JAN.2013 10:35:11

Fig. 94 Conducted Spurious Emission (802.11n-HT20, Ch6, 10 GHz-15 GHz)



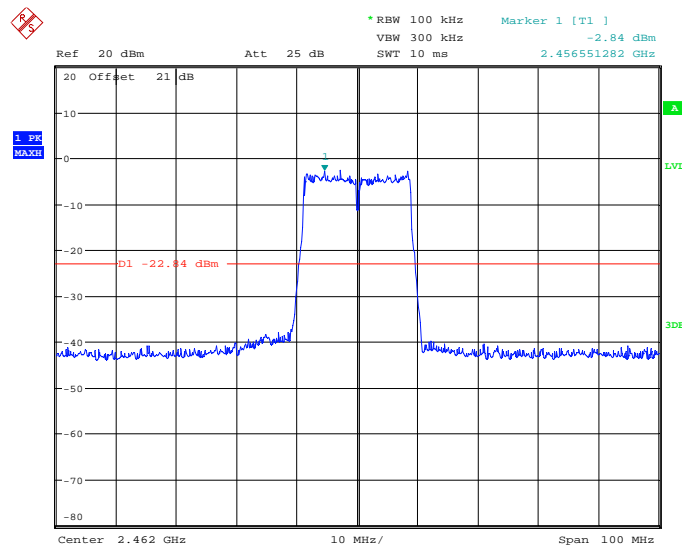
Date: 17.JAN.2013 10:35:25

Fig. 95 Conducted Spurious Emission (802.11n-HT20, Ch6, 15 GHz-20 GHz)



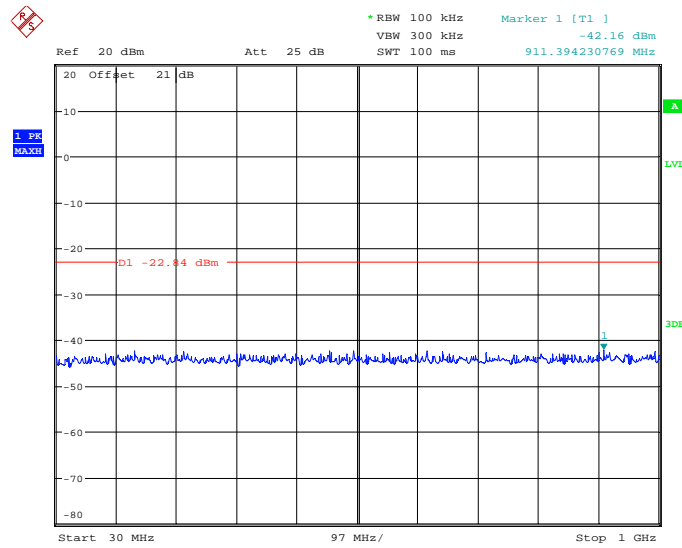
Date: 17.JAN.2013 10:35:39

Fig. 96 Conducted Spurious Emission (802.11n-HT20, Ch6, 20 GHz-26 GHz)



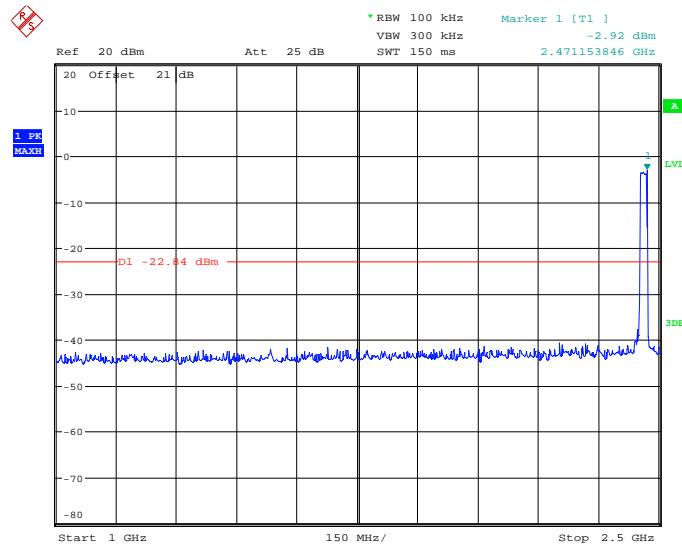
Date: 17.JAN.2013 10:37:11

Fig. 97 Conducted Spurious Emission (802.11n-HT20, Ch11, Center Frequency)



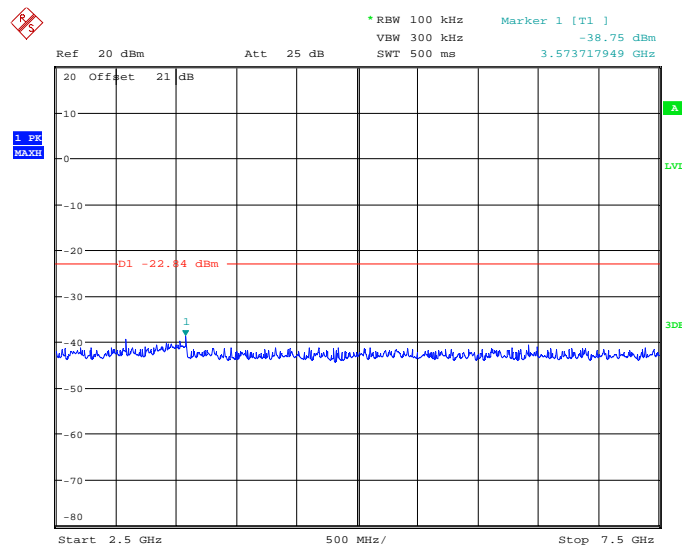
Date: 17.JAN.2013 10:37:37

Fig. 98 Conducted Spurious Emission (802.11n-HT20, Ch11, 30 MHz-1 GHz)



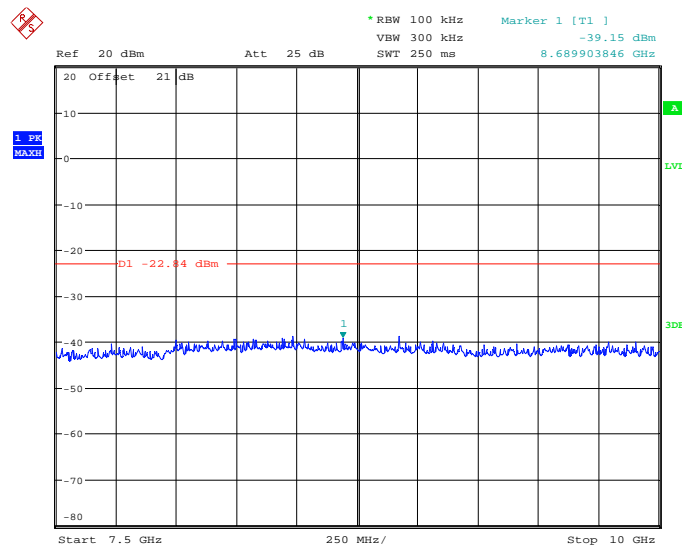
Date: 17.JAN.2013 10:37:50

Fig. 99 Conducted Spurious Emission (802.11n-HT20, Ch11, 1 GHz-2.5 GHz)



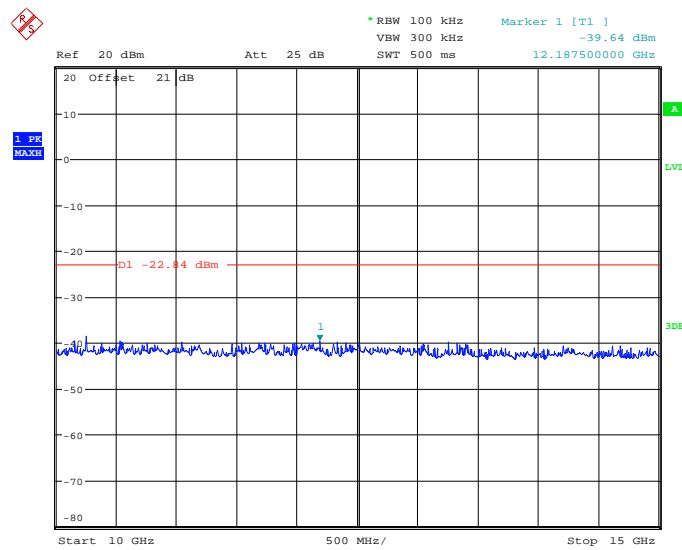
Date: 17.JAN.2013 10:38:05

Fig. 100 Conducted Spurious Emission (802.11n-HT20, Ch11, 2.5 GHz-7.5 GHz)



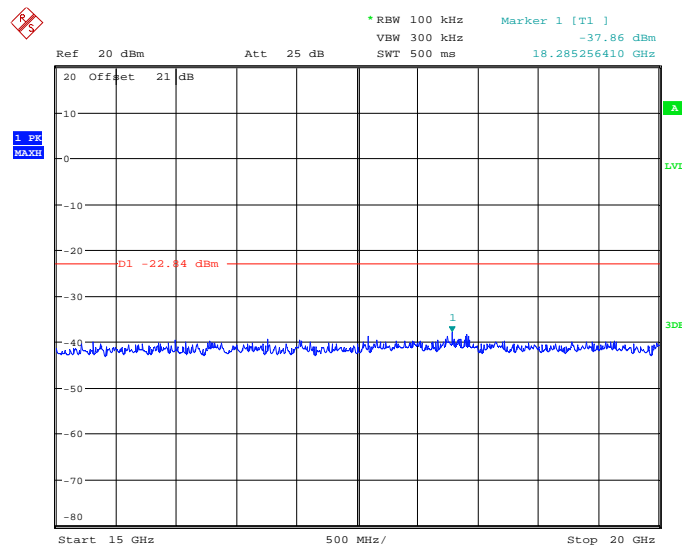
Date: 17.JAN.2013 10:38:19

Fig. 101 Conducted Spurious Emission (802.11n-HT20, Ch11, 7.5 GHz-10 GHz)



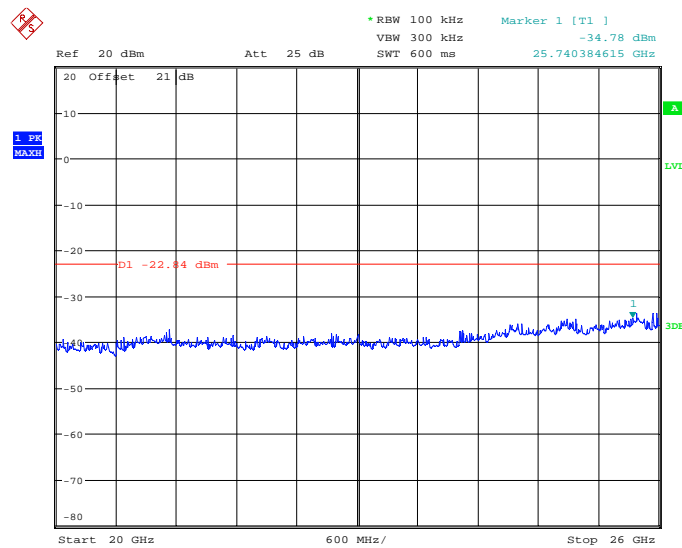
Date: 17.JAN.2013 10:38:38

Fig. 102 Conducted Spurious Emission (802.11n-HT20, Ch11, 10 GHz-15 GHz)



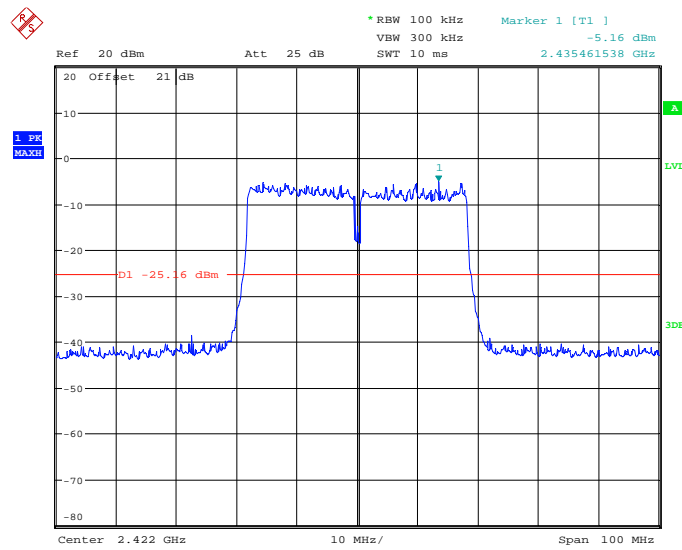
Date: 17.JAN.2013 10:38:49

Fig. 103 Conducted Spurious Emission (802.11n-HT20, Ch11, 15 GHz-20 GHz)



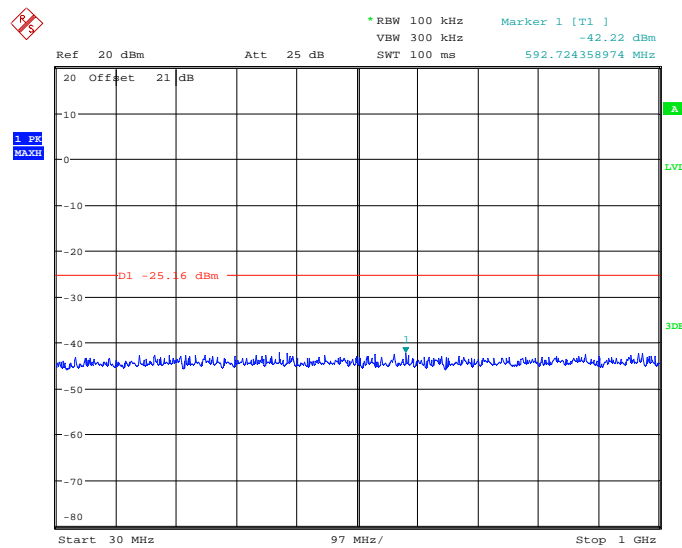
Date: 17.JAN.2013 10:39:02

Fig. 104 Conducted Spurious Emission (802.11n-HT20, Ch11, 20 GHz-26 GHz)



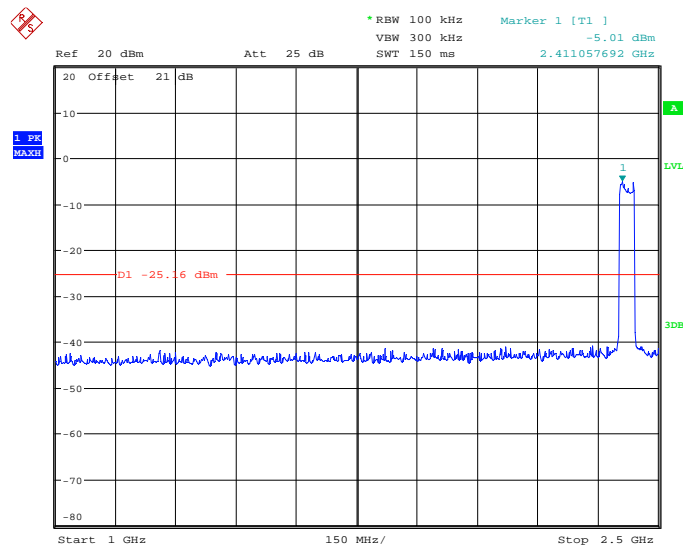
Date: 17.JAN.2013 10:44:23

Fig. 105 Conducted Spurious Emission (802.11n-HT40, Ch3, Center Frequency)



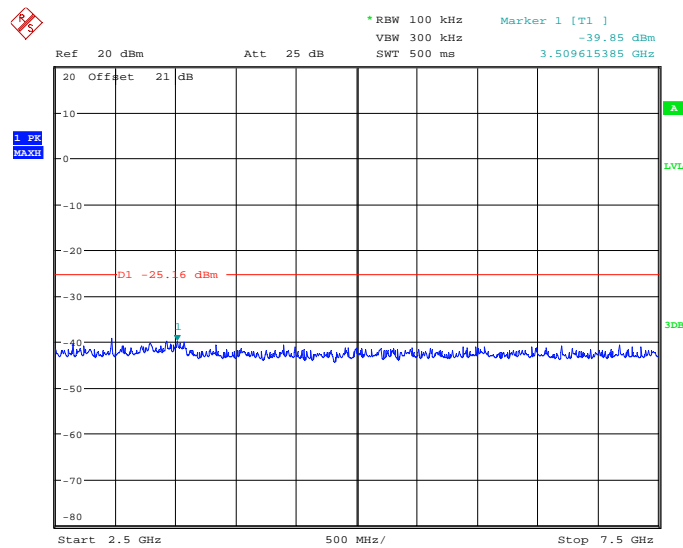
Date: 17.JAN.2013 10:45:03

Fig. 106 Conducted Spurious Emission (802.11n-HT40, Ch3, 30 MHz-1 GHz)



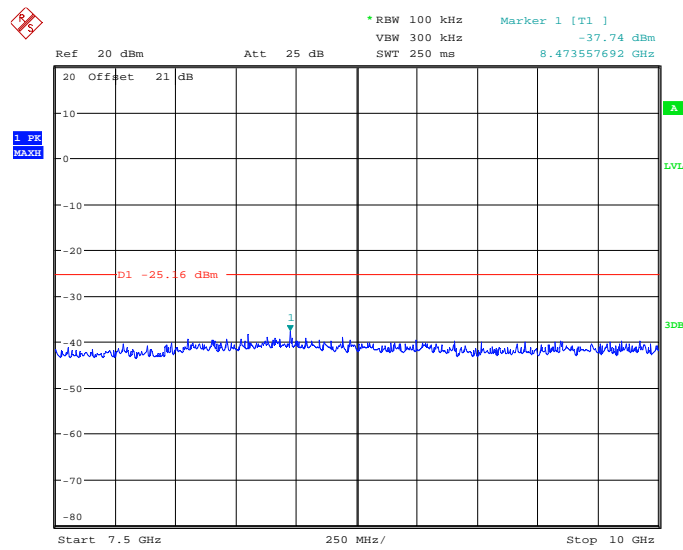
Date: 17.JAN.2013 10:45:19

Fig. 107 Conducted Spurious Emission (802.11n-HT40, Ch3, 1 GHz-2.5 GHz)



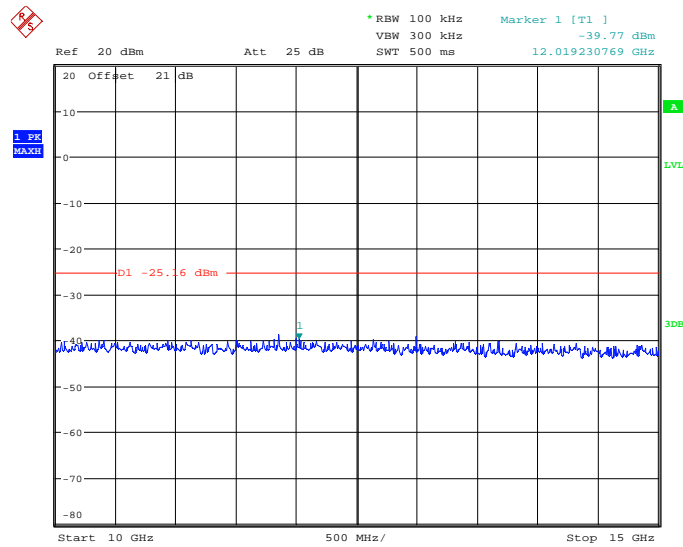
Date: 17.JAN.2013 10:45:46

Fig. 108 Conducted Spurious Emission (802.11n-HT40, Ch3, 2.5 GHz-7.5 GHz)



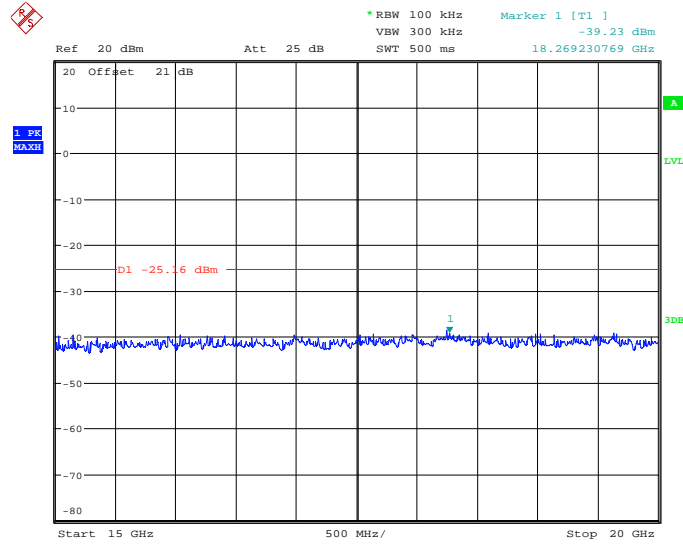
Date: 17.JAN.2013 10:46:06

Fig. 109 Conducted Spurious Emission (802.11n-HT40, Ch3, 7.5 GHz-10 GHz)



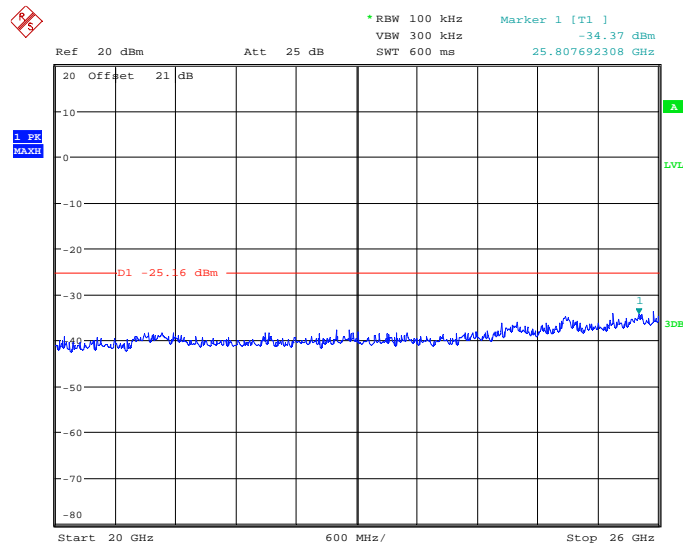
Date: 17.JAN.2013 10:46:23

Fig. 110 Conducted Spurious Emission (802.11n-HT40, Ch3, 10 GHz-15 GHz)



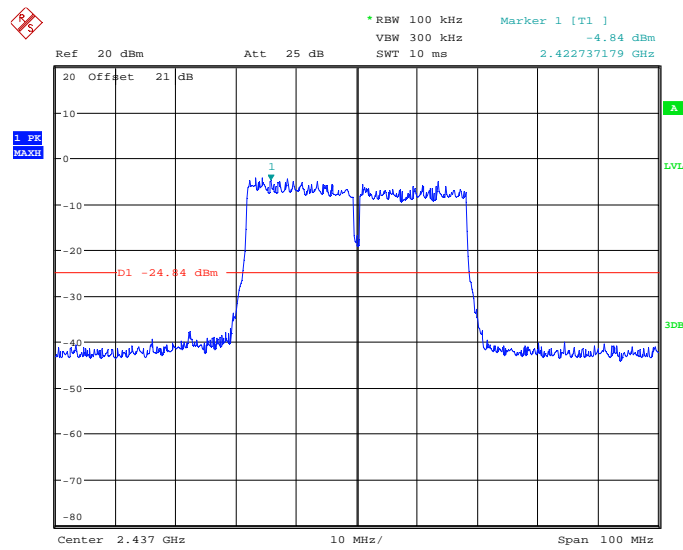
Date: 17.JAN.2013 10:46:38

Fig. 111 Conducted Spurious Emission (802.11n-HT40, Ch3, 15 GHz-20 GHz)



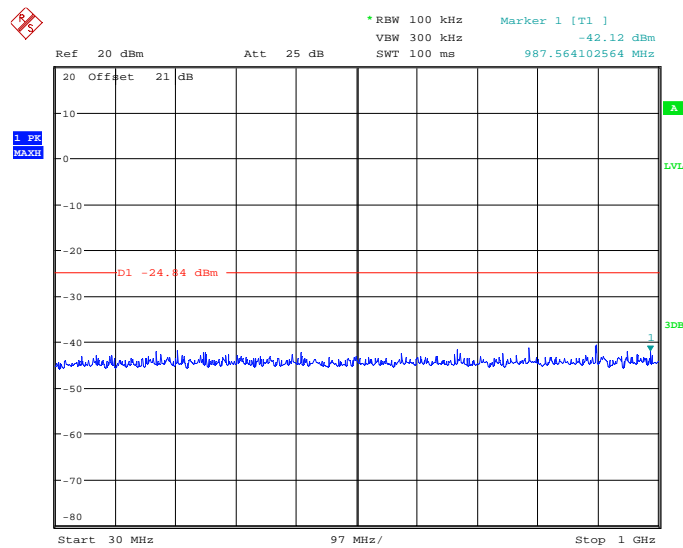
Date: 17.JAN.2013 10:46:56

Fig. 112 Conducted Spurious Emission (802.11n-HT40, Ch3, 20 GHz-26 GHz)



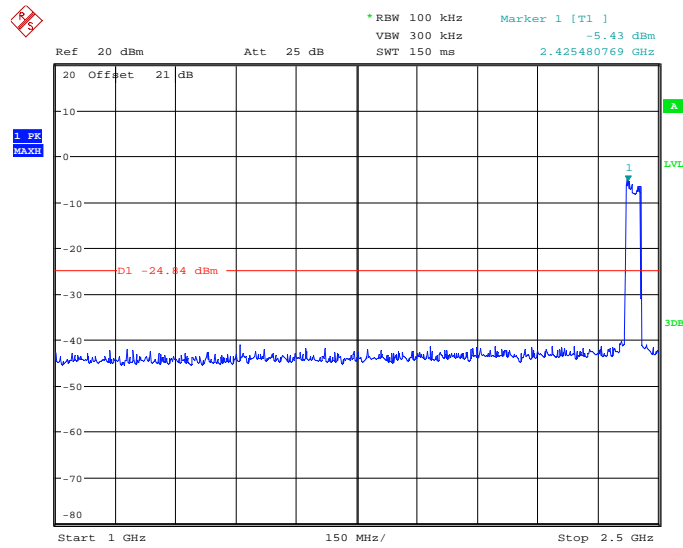
Date: 17.JAN.2013 10:47:49

Fig. 113 Conducted Spurious Emission (802.11n-HT40, Ch6, Center Frequency)



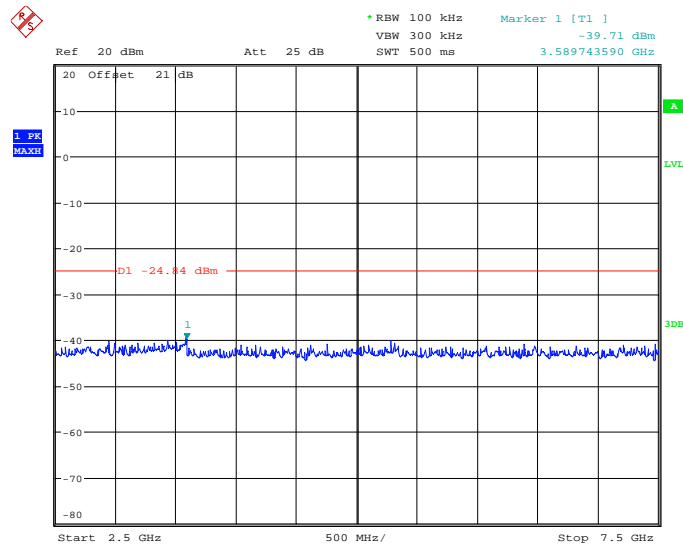
Date: 17.JAN.2013 10:48:06

Fig. 114 Conducted Spurious Emission (802.11n-HT40, Ch6, 30 MHz-1 GHz)



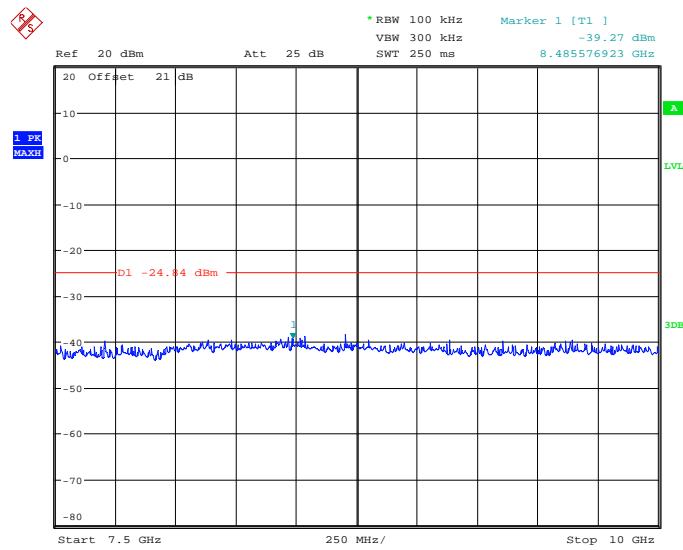
Date: 17.JAN.2013 10:48:18

Fig. 115 Conducted Spurious Emission (802.11n-HT40, Ch6, 1 GHz-2.5 GHz)



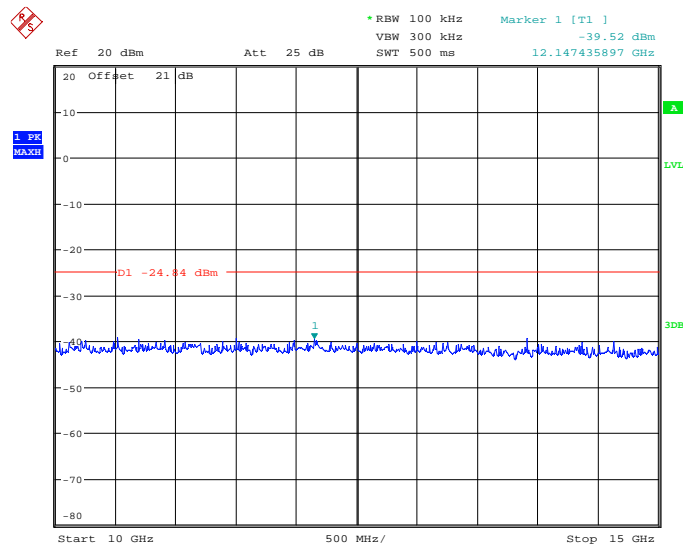
Date: 17.JAN.2013 10:48:32

Fig. 116 Conducted Spurious Emission (802.11n-HT40, Ch6, 2.5 GHz-7.5 GHz)



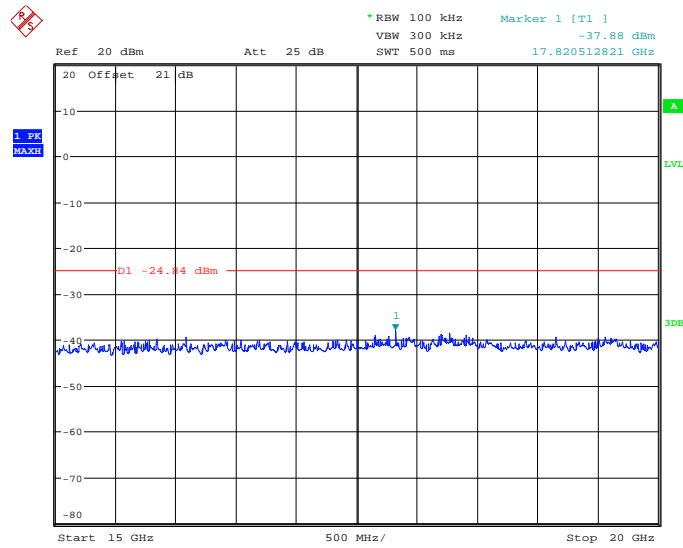
Date: 17.JAN.2013 10:48:47

Fig. 117 Conducted Spurious Emission (802.11n-HT40, Ch6, 7.5 GHz-10 GHz)



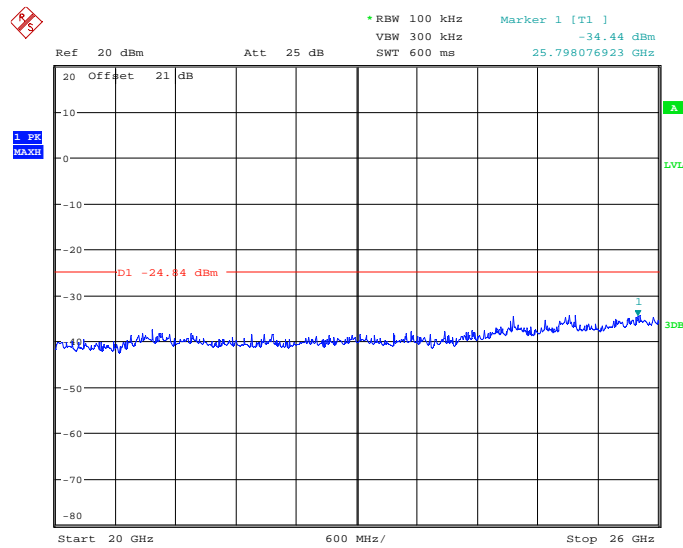
Date: 17.JAN.2013 10:49:02

Fig. 118 Conducted Spurious Emission (802.11n-HT40, Ch6, 10 GHz-15 GHz)



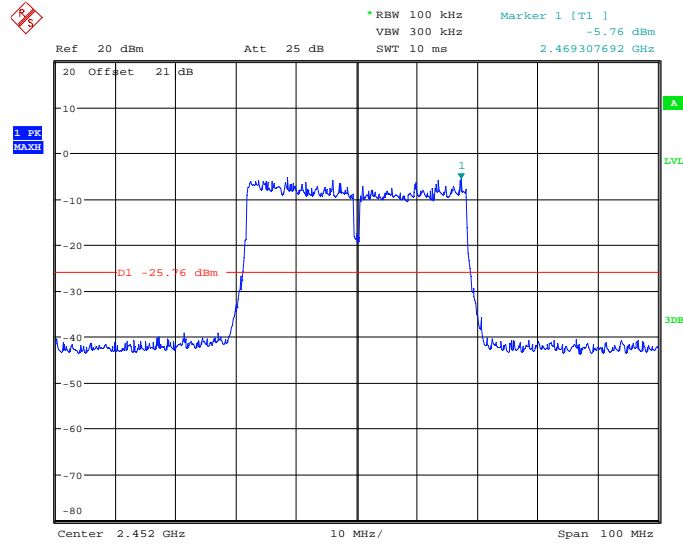
Date: 17.JAN.2013 10:49:15

Fig. 119 Conducted Spurious Emission (802.11n-HT40, Ch6, 15GHz-20 GHz)



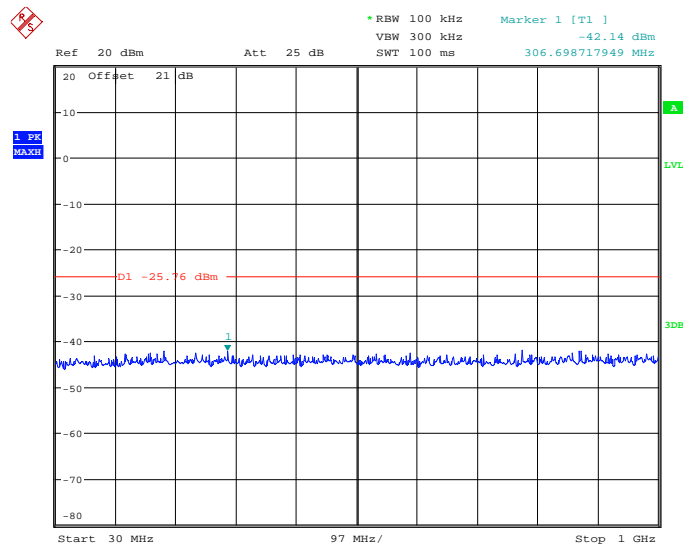
Date: 17.JAN.2013 10:49:30

Fig. 120 Conducted Spurious Emission (802.11n-HT40, Ch6, 20GHz-26 GHz)



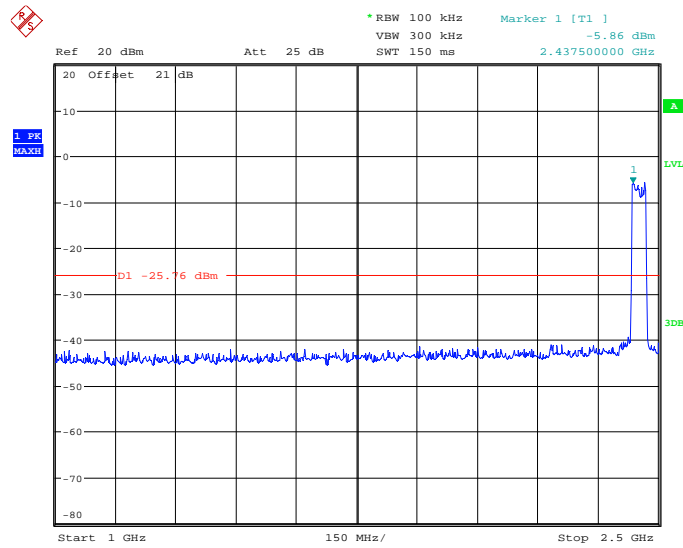
Date: 17.JAN.2013 10:50:44

Fig. 121 Conducted Spurious Emission (802.11n-HT40, Ch9, Center Frequency)



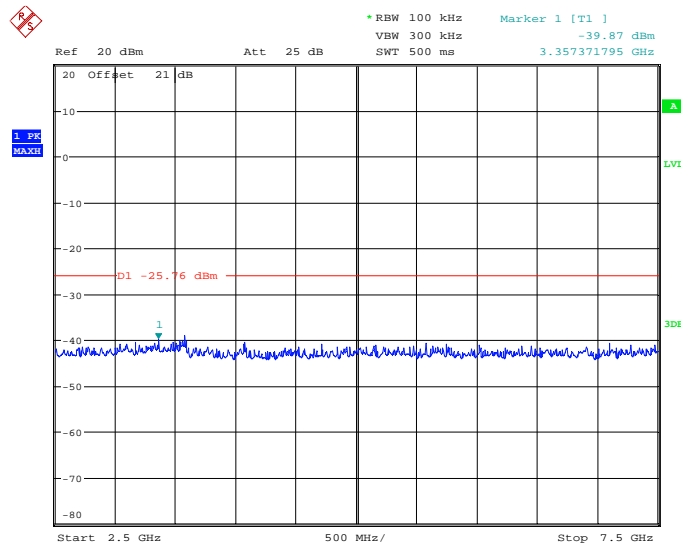
Date: 17.JAN.2013 10:51:10

Fig. 122 Conducted Spurious Emission (802.11n-HT40, Ch9, 30 MHz-1 GHz)



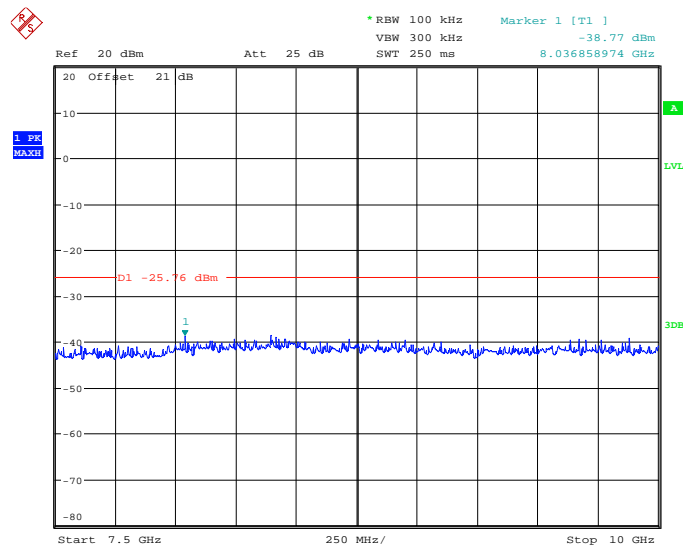
Date: 17.JAN.2013 10:51:25

Fig. 123 Conducted Spurious Emission (802.11n-HT40, Ch9, 1GHz-2.5 GHz)



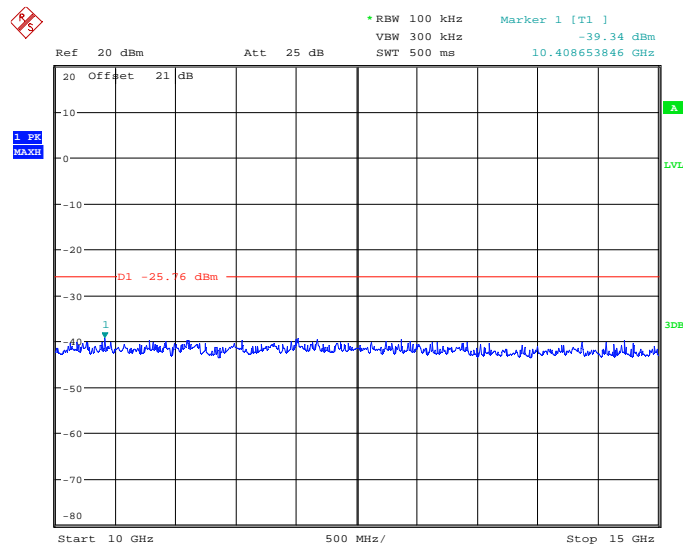
Date: 17.JAN.2013 10:51:39

Fig. 124 Conducted Spurious Emission (802.11n-HT40, Ch9, 2.5GHz-7.5 GHz)



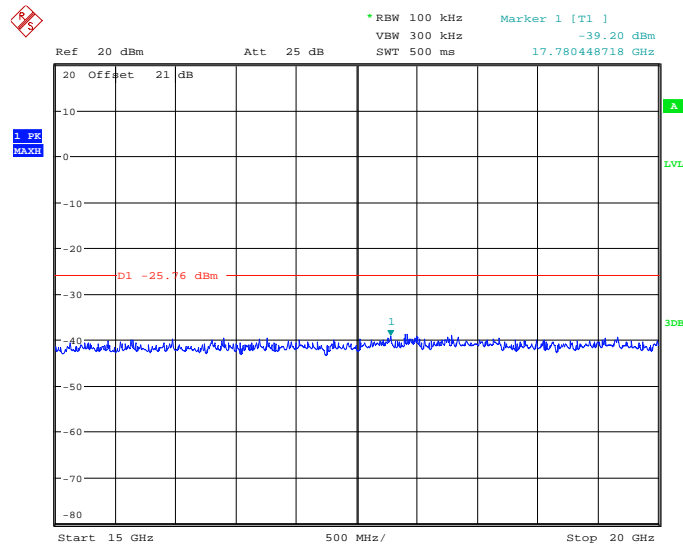
Date: 17.JAN.2013 10:52:03

Fig. 125 Conducted Spurious Emission (802.11n-HT40, Ch9, 7.5GHz-10 GHz)



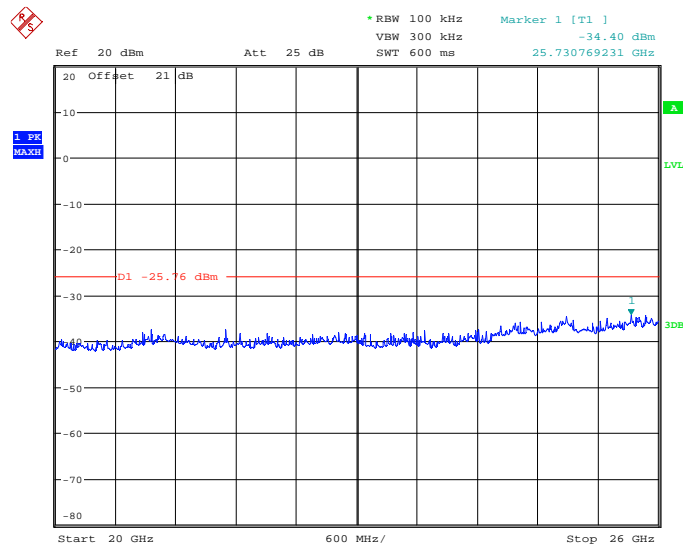
Date: 17.JAN.2013 10:52:17

Fig. 126 Conducted Spurious Emission (802.11n-HT40, Ch9, 10GHz-15 GHz)



Date: 17.JAN.2013 10:52:30

Fig. 127 Conducted Spurious Emission (802.11n-HT40, Ch9, 15GHz-20 GHz)



Date: 17.JAN.2013 10:52:42

Fig. 128 Conducted Spurious Emission (802.11n-HT40, Ch9, 20GHz-28 GHz)

A.6.2 Transmitter Spurious Emission - Radiated

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247, 15.205, 15.209	20dB below peak output power

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

The measurement is made according to ANSI C63.10.

Limit in restricted band:

Frequency of emission (MHz)	Field strength(uV/m)	Field strength(dBuV/m)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Test Condition

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	100KHz/300KHz	5
1000-4000	1MHz/1MHz	15
4000-18000	1MHz/1MHz	40
18000-26500	1MHz/1MHz	20

Measurement Results:

802.11b/g mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11b	Power	2.38GHz ~2.45GHz	Fig.129	P
	1	30 MHz ~1 GHz	Fig.130	P
		1 GHz ~ 3 GHz	Fig.131	P
		3 GHz ~ 18 GHz	Fig.132	P
	6	30 MHz ~1 GHz	Fig.133	P
		1 GHz ~ 3 GHz	Fig.134	P
		3 GHz ~ 18 GHz	Fig.135	P
	Power	2.45GHz ~2.5GHz	Fig.136	P
	11	30 MHz ~1 GHz	Fig.137	P
		1 GHz ~ 3 GHz	Fig.138	P
		3 GHz ~ 18 GHz	Fig.139	P
	802.11g	Power	2.38GHz ~2.43GHz	Fig.140
1		30 MHz ~1 GHz	Fig.141	P
		1 GHz ~ 3 GHz	Fig.142	P
		3 GHz ~ 18 GHz	Fig.143	P
6		30 MHz ~1 GHz	Fig.144	P
		1 GHz ~ 3 GHz	Fig.145	P
		3 GHz ~ 18 GHz	Fig.146	P
Power		2.45GHz ~2.5GHz	Fig.147	P
11		30 MHz ~1 GHz	Fig.148	P
		1 GHz ~ 3 GHz	Fig.149	P
		3 GHz ~ 18 GHz	Fig.150	P

802.11n mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (20MHz)	Power	2.38GHz ~2.45GHz	Fig.151	P
	1	30 MHz ~1 GHz	Fig.152	P
		1 GHz ~ 3 GHz	Fig.153	P
		3 GHz ~ 18 GHz	Fig.154	P
	6	30 MHz ~1 GHz	Fig.155	P
		1 GHz ~ 3 GHz	Fig.156	P
		3 GHz ~ 18 GHz	Fig.157	P
	Power	2.45GHz ~2.5GHz	Fig.158	P
	11	30 MHz ~1 GHz	Fig.159	P
		1 GHz ~ 3 GHz	Fig.160	P
		3 GHz ~ 18 GHz	Fig.161	P
	802.11n (40MHz)	Power	2.38GHz ~2.45GHz	Fig.162
3		30 MHz ~1 GHz	Fig.163	P
		1 GHz ~ 3 GHz	Fig.164	P
		3 GHz ~ 18 GHz	Fig.165	P

	6	30 MHz ~1 GHz	Fig.166	P
		1 GHz ~ 3 GHz	Fig.167	P
		3 GHz ~ 18 GHz	Fig.168	P
	Power	2.45GHz ~2.5GHz	Fig.169	P
	9	30 MHz ~1 GHz	Fig.170	P
		1 GHz ~ 3 GHz	Fig.171	P
3 GHz ~ 18 GHz		Fig.172	P	
/	All channels	18 GHz~ 26.5 GHz	Fig.173	P

Conclusion: PASS

Note:

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.

P_{Mea} is the field strength recorded from the instrument.

The measurement results are obtained as described below:

Result= $P_{Mea}+A_{Rpl}= P_{Mea}+Cable Loss+Antenna Factor$

802.11b

Ch1

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2998.000	46.7	-29.0	33.8	41.879	V
2990.400	46.6	-29.0	33.8	41.779	H
2997.200	46.6	-29.0	33.8	41.779	H
2996.000	46.6	-29.0	33.8	41.779	V
2999.000	46.6	-29.0	33.8	41.779	V
2994.600	46.6	-29.0	33.8	41.779	V

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2993.200	46.6	-29.0	33.8	41.779	V
2998.400	46.6	-29.0	33.8	41.779	V
2998.600	46.6	-29.0	33.8	41.779	V
2995.800	46.6	-29.0	33.8	41.779	V
2999.800	46.5	-29.0	33.8	41.679	H
2991.600	46.5	-29.0	33.8	41.679	V

Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2996.000	46.6	-29.0	33.8	41.779	H
2945.600	46.6	-28.1	33.8	40.911	V
2995.800	46.6	-29.0	33.8	41.779	V
2942.400	46.6	-28.1	33.8	40.911	H
2993.600	46.6	-29.0	33.8	41.779	V
2992.400	46.6	-29.0	33.8	41.779	V

802.11g

Ch1

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	PMea (dBuV/m)	Polarization
2994.000	46.7	-29.0	33.8	41.879	V
2997.800	46.7	-29.0	33.8	41.879	V
2996.400	46.6	-29.0	33.8	41.779	H
2999.600	46.6	-29.0	33.8	41.779	H
2387.600	46.6	-30.2	30.8	45.979	H
2999.800	46.6	-29.0	33.8	41.779	H

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	PMea (dBuV/m)	Polarization
2998.200	46.6	-29.0	33.8	41.779	V
2999.800	46.6	-29.0	33.8	41.779	V
2997.800	46.6	-29.0	33.8	41.779	V
2947.200	46.6	-28.6	33.8	41.415	V
2999.000	46.6	-29.0	33.8	41.779	H
2944.000	46.6	-28.1	33.8	40.911	V

Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	PMea (dBuV/m)	Polarization
2947.800	46.6	-28.6	33.8	41.415	V
2993.200	46.6	-29.0	33.8	41.779	V
2994.000	46.6	-29.0	33.8	41.779	V
2946.400	46.6	-28.6	33.8	41.415	H
2998.800	46.6	-29.0	33.8	41.779	H
2995.000	46.5	-29.0	33.8	41.679	H

802.11n-HT20

Ch1

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	PMea (dBuV/m)	Polarization
2999.200	46.6	-29.0	33.8	41.779	H
2998.800	46.6	-29.0	33.8	41.779	H
2998.600	46.6	-29.0	33.8	41.779	H
2998.000	46.5	-29.0	33.8	41.679	V
2985.800	46.5	-29.0	33.8	41.679	H
2997.400	46.5	-29.0	33.8	41.679	H

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	PMea (dBuV/m)	Polarization
2994.800	46.5	-29.0	33.8	41.679	V
2997.000	46.5	-29.0	33.8	41.679	V
2997.800	46.5	-29.0	33.8	41.679	V
2992.800	46.5	-29.0	33.8	41.679	V
2998.000	46.5	-29.0	33.8	41.679	H
2997.600	46.5	-29.0	33.8	41.679	H

Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	PMea (dBuV/m)	Polarization
2998.000	46.6	-29.0	33.8	41.779	V
2993.400	46.5	-29.0	33.8	41.679	H
2947.600	46.5	-28.6	33.8	41.315	V
2999.600	46.5	-29.0	33.8	41.679	V
2941.800	46.5	-28.1	33.8	40.811	V
2992.200	46.5	-29.0	33.8	41.679	H

802.11n-HT40

Ch3

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	PMea (dBuV/m)	Polarization
2993.200	46.6	-29.0	33.8	41.779	V
2998.400	46.6	-29.0	33.8	41.779	V
2998.600	46.6	-29.0	33.8	41.779	V
2995.800	46.6	-29.0	33.8	41.779	V
2999.800	46.5	-29.0	33.8	41.679	H
2991.600	46.5	-29.0	33.8	41.679	V

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	PMea (dBuV/m)	Polarization
2996.400	46.6	-29.0	33.8	41.779	V
2945.400	46.5	-28.1	33.8	40.811	H
2999.800	46.5	-29.0	33.8	41.679	H
2998.600	46.5	-29.0	33.8	41.679	V
2991.200	46.5	-29.0	33.8	41.679	V
2998.000	46.5	-29.0	33.8	41.679	V

Ch9

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	PMea (dBuV/m)	Polarization
2997.000	46.6	-29.0	33.8	41.779	V
2996.400	46.6	-29.0	33.8	41.779	V
2995.200	46.6	-29.0	33.8	41.779	V
2997.200	46.6	-29.0	33.8	41.779	V
2996.800	46.6	-29.0	33.8	41.779	V
2990.800	46.5	-29.0	33.8	41.679	H

Test graphs as below:

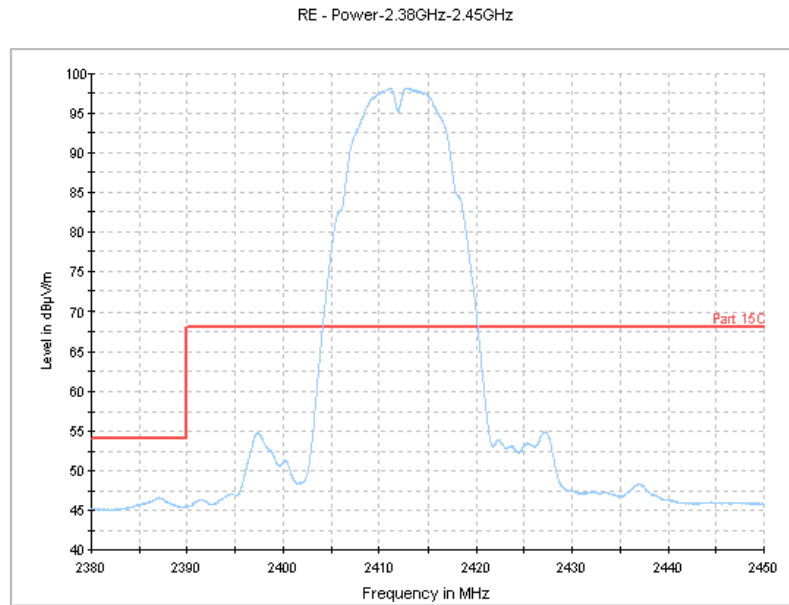


Fig. 129 Radiated Spurious Emission (Power): 802.11b, ch1, 2.38 GHz - 245GHz

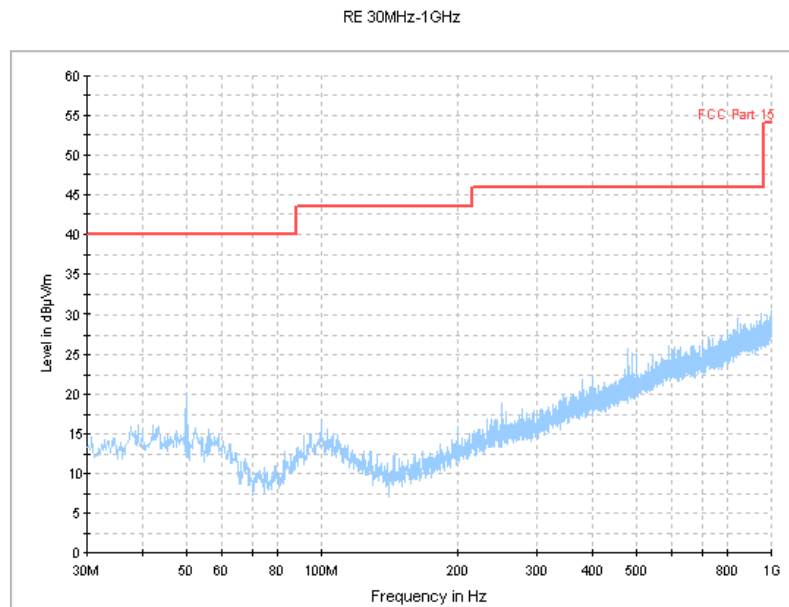


Fig. 130 Radiated Spurious Emission (802.11b, Ch1, 30 MHz-1 GHz)

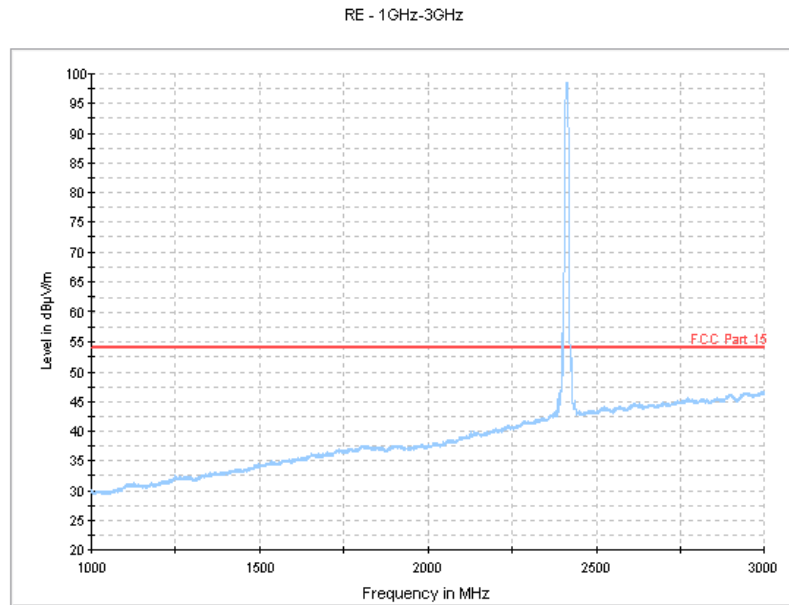


Fig. 131 Radiated Spurious Emission (802.11b, Ch1, 1 GHz-3 GHz)

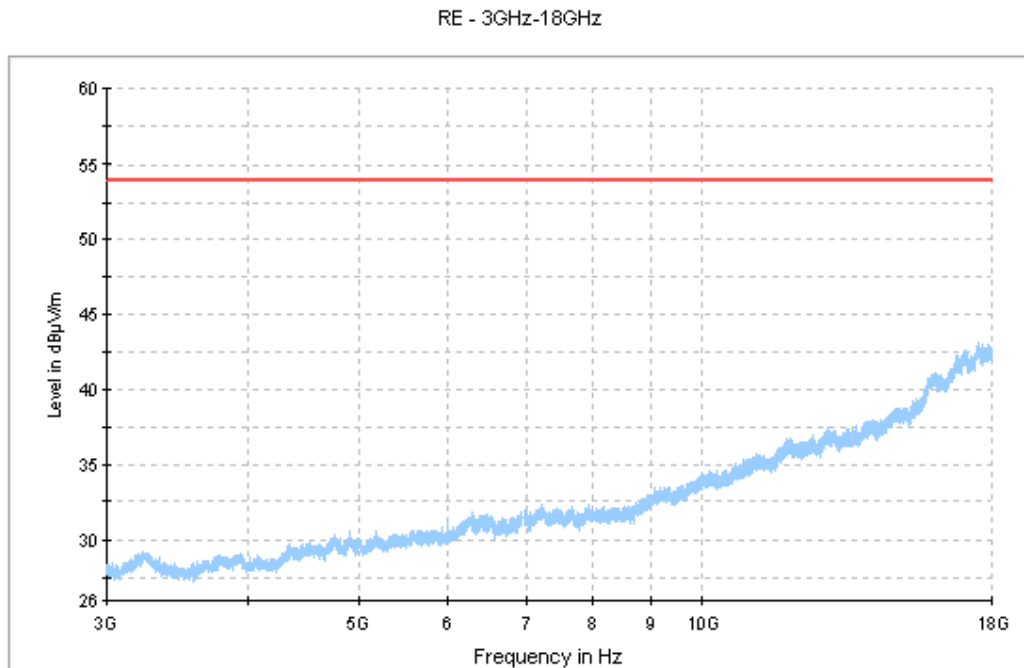


Fig. 132 Radiated Spurious Emission (802.11b, Ch1, 3 GHz-18 GHz)

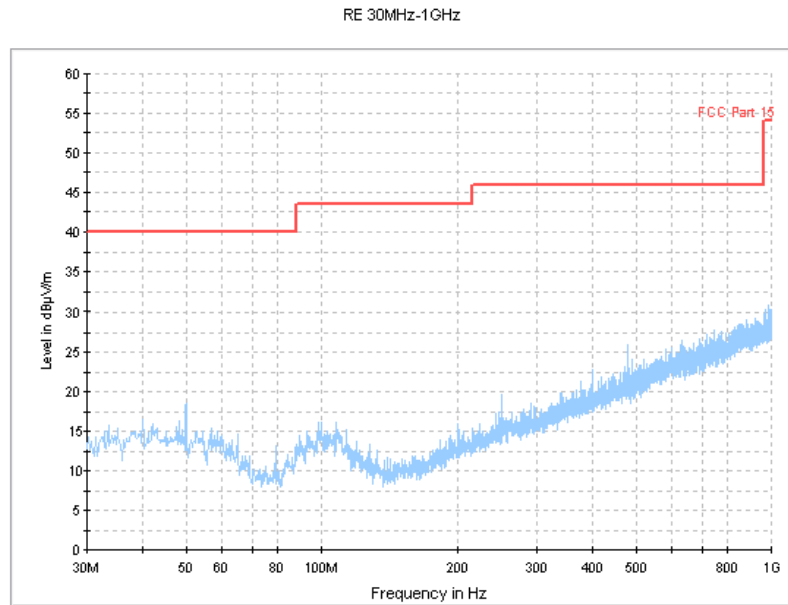


Fig. 133 Radiated Spurious Emission (802.11b, Ch6, 30 MHz-1 GHz)

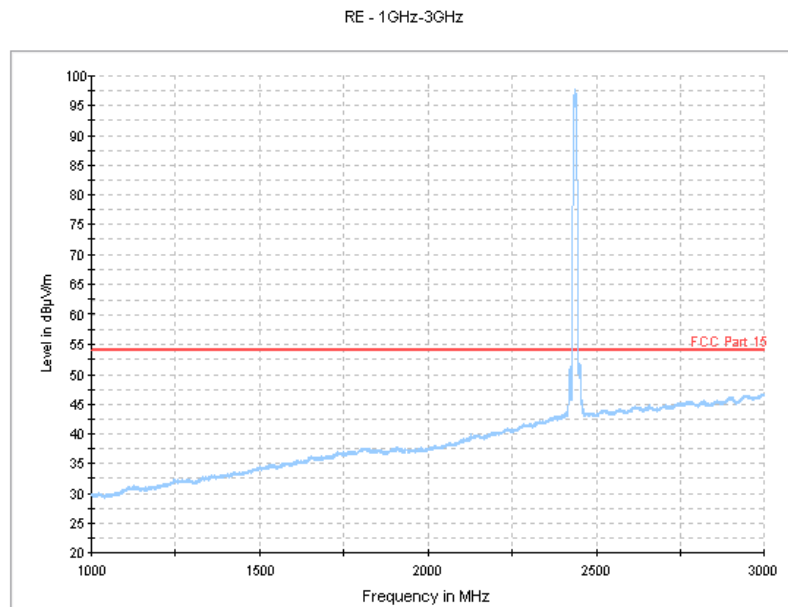


Fig. 134 Radiated Spurious Emission (802.11b, Ch6, 1 GHz-3 GHz)

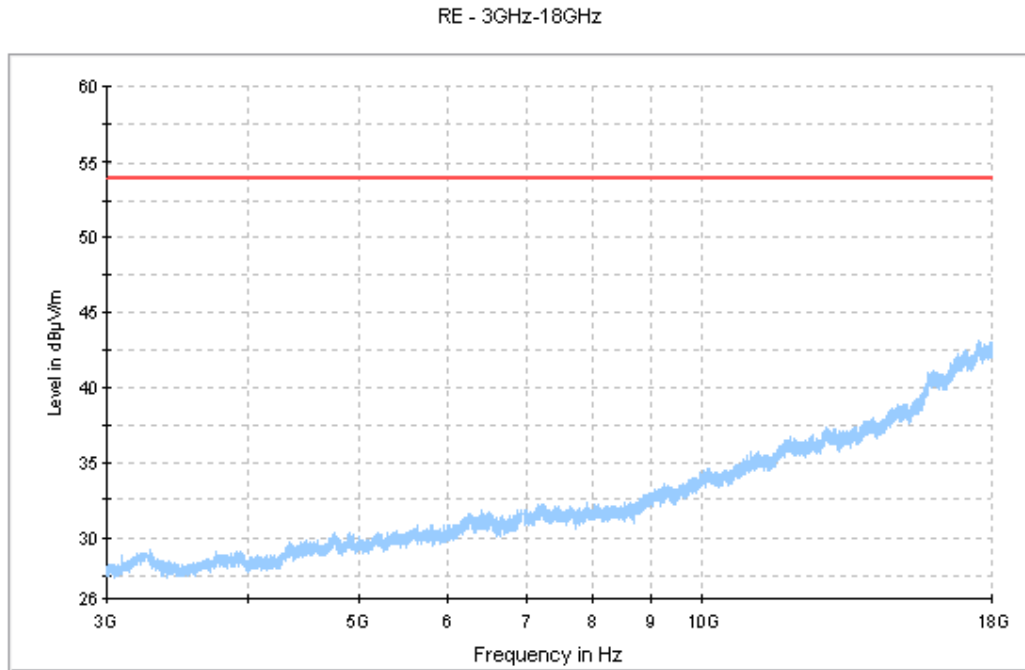


Fig. 135 Radiated Spurious Emission (802.11b, Ch6, 3 GHz-18 GHz)

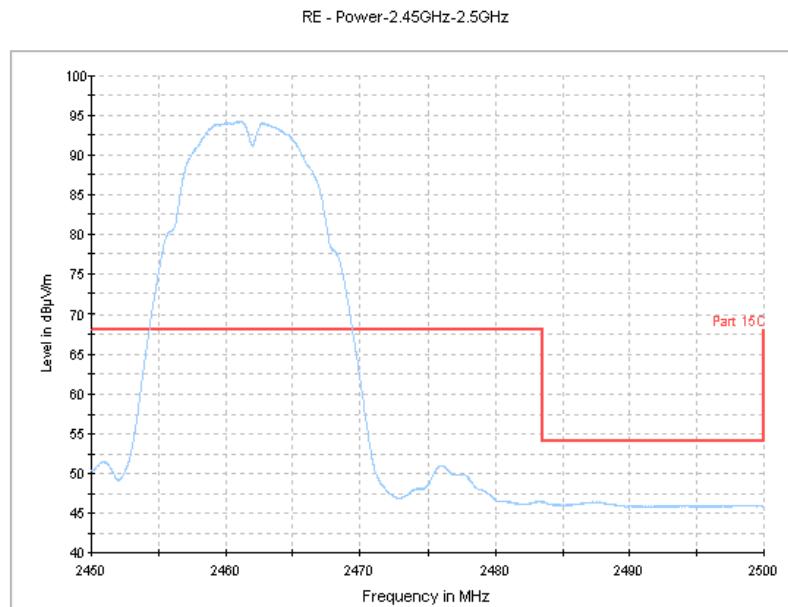


Fig. 136 Radiated Spurious Emission (Power): 802.11b, ch11, 2.45 GHz - 2.50GHz

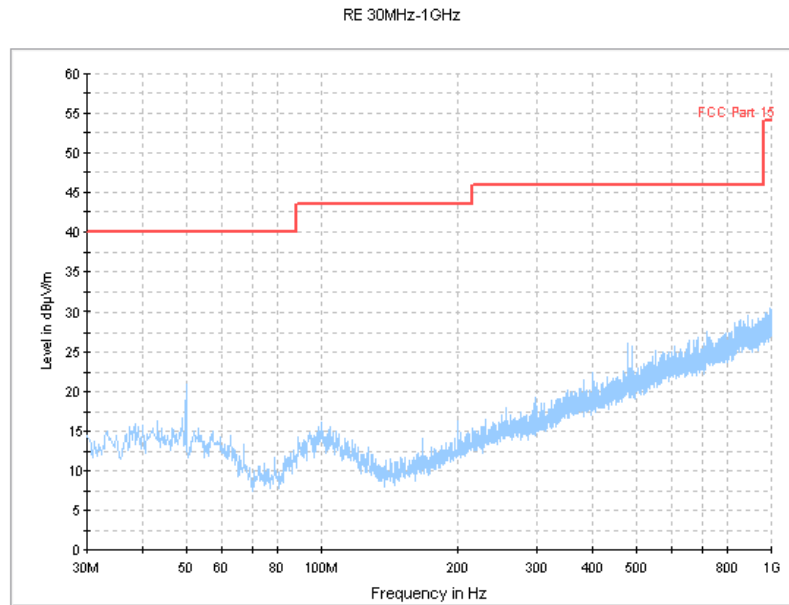


Fig. 137 Radiated Spurious Emission (802.11b, Ch11, 30 MHz-1 GHz)

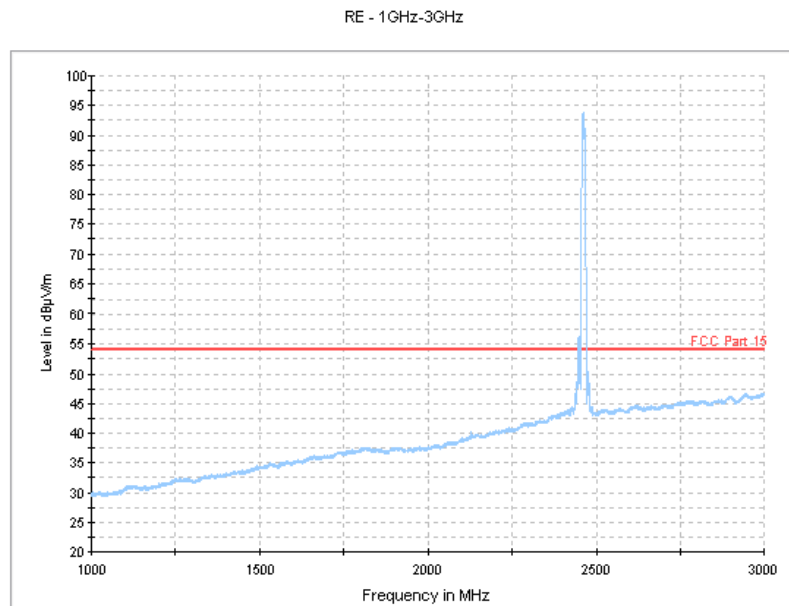


Fig. 138 Radiated Spurious Emission (802.11b, Ch11, 1 GHz-3 GHz)

RE - 3GHz-18GHz

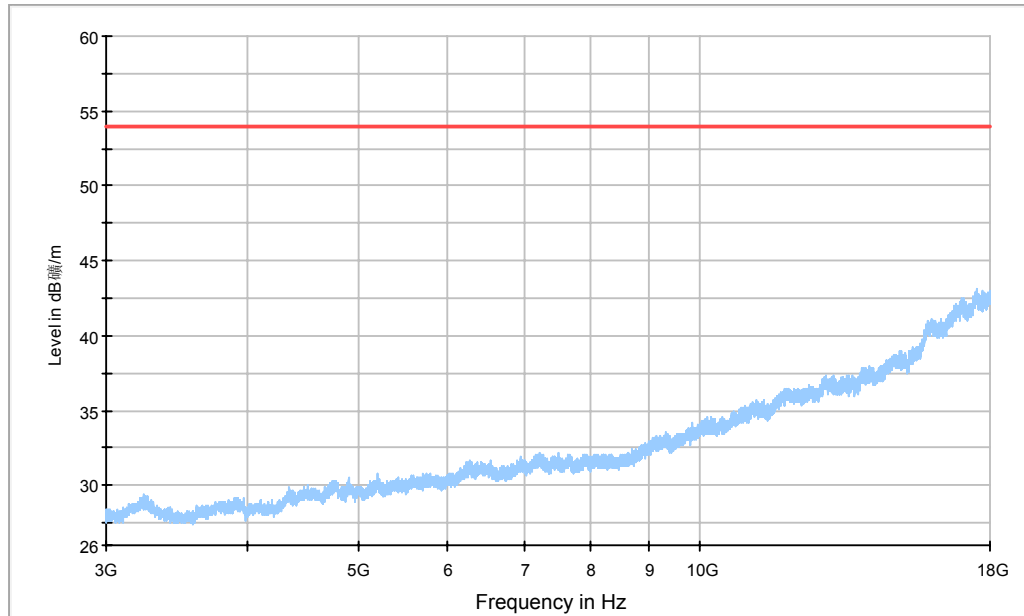


Fig. 139 Radiated Spurious Emission (802.11b, Ch11, 3 GHz-18 GHz)

RE - Power-2.38GHz-2.45GHz

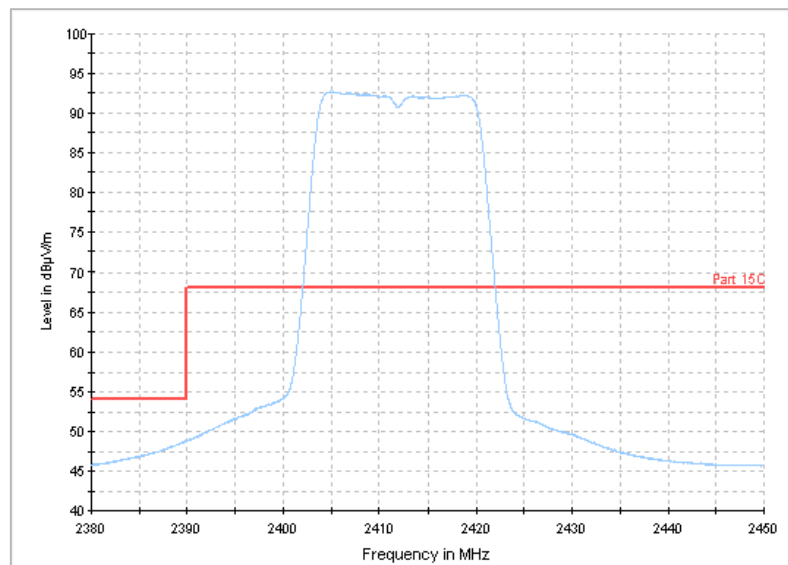


Fig. 140 Radiated Spurious Emission (Power): 802.11g, ch1, 2.38 GHz - 2.45GHz

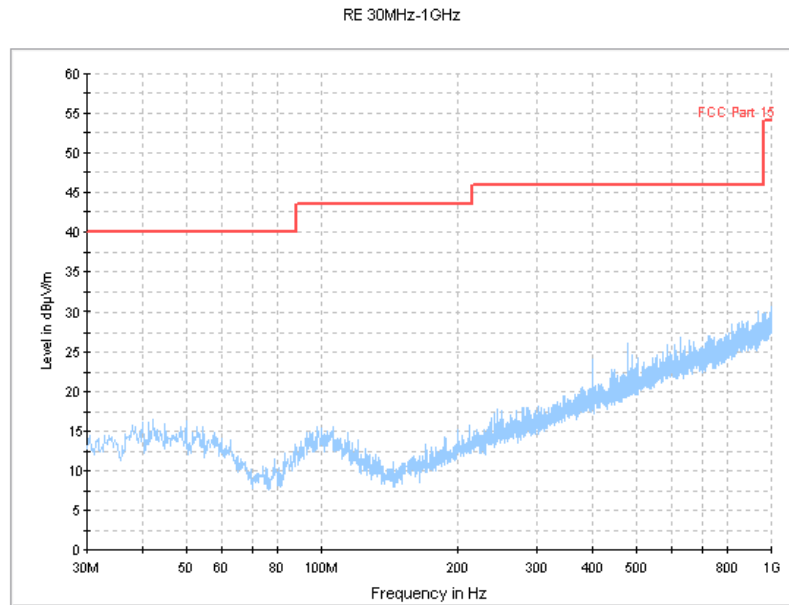


Fig. 141 Radiated Spurious Emission (802.11g, Ch1, 30 MHz-1 GHz)

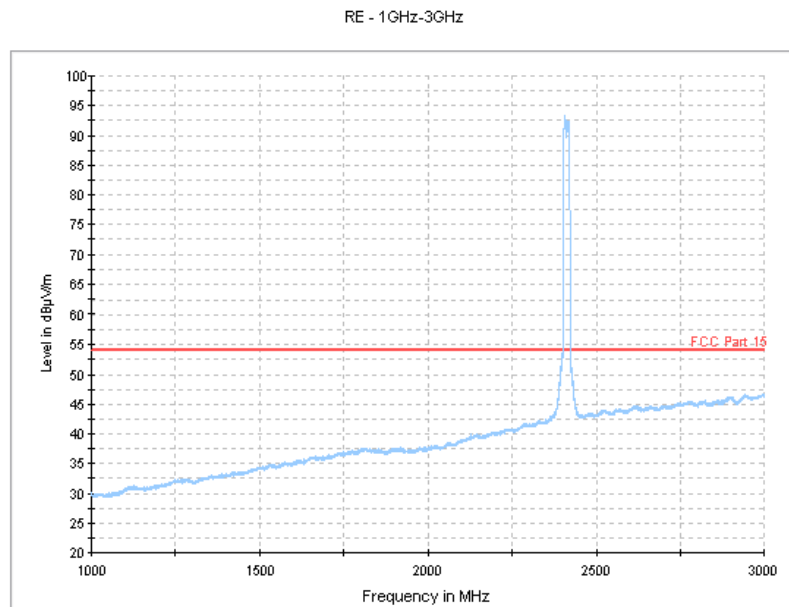


Fig. 142 Radiated Spurious Emission (802.11g, Ch1, 1 GHz-3 GHz)

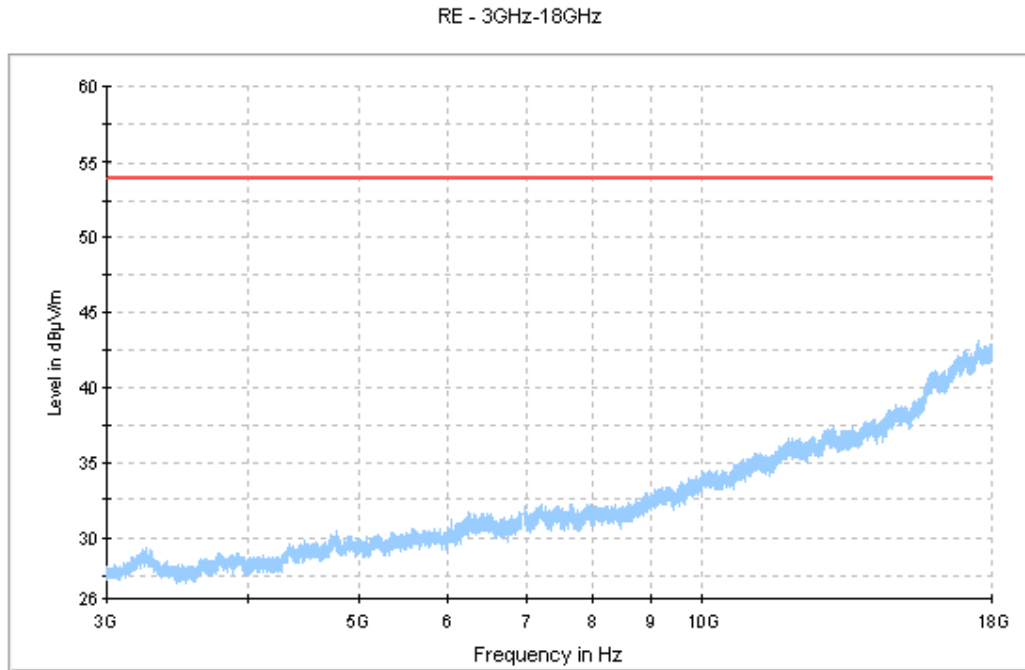


Fig. 143 Radiated Spurious Emission (802.11g, Ch1, 3 GHz-18 GHz)

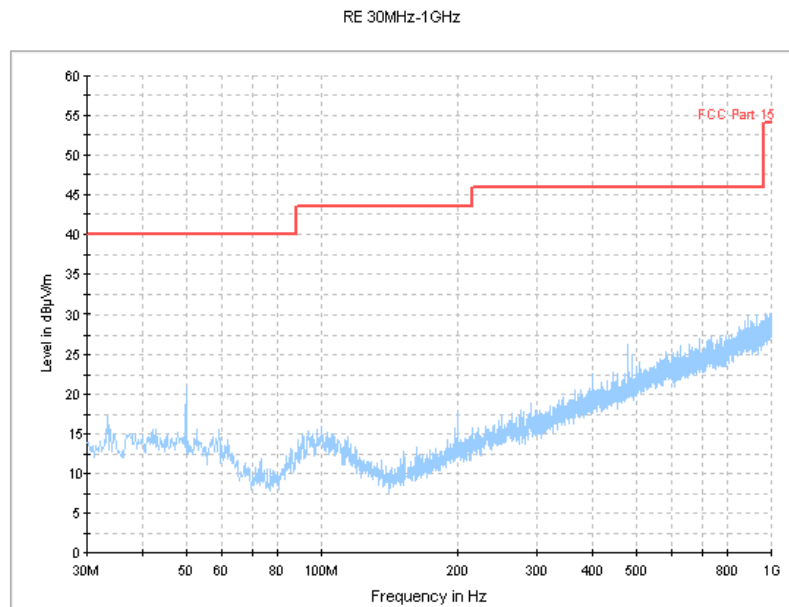


Fig. 144 Radiated Spurious Emission (802.11g, Ch6, 30 MHz-1 GHz)

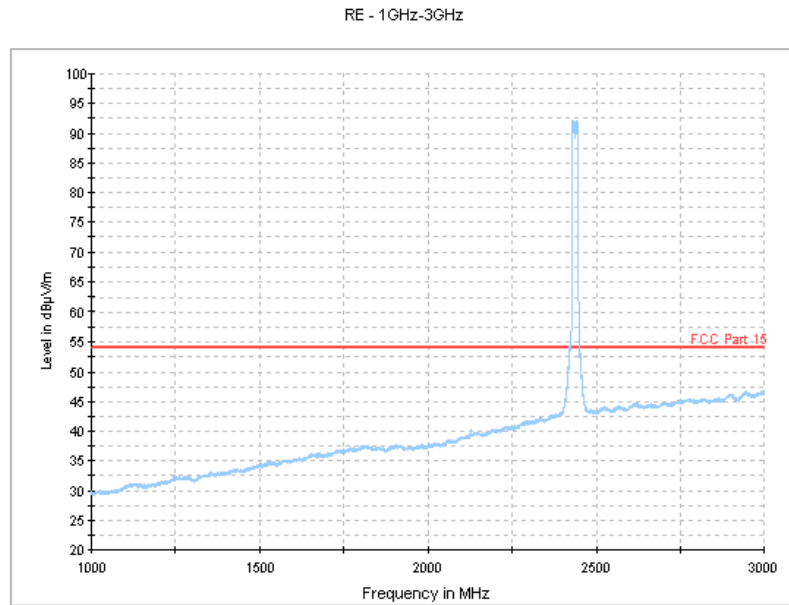


Fig. 145 Radiated Spurious Emission (802.11g, Ch6, 1 GHz-3 GHz)

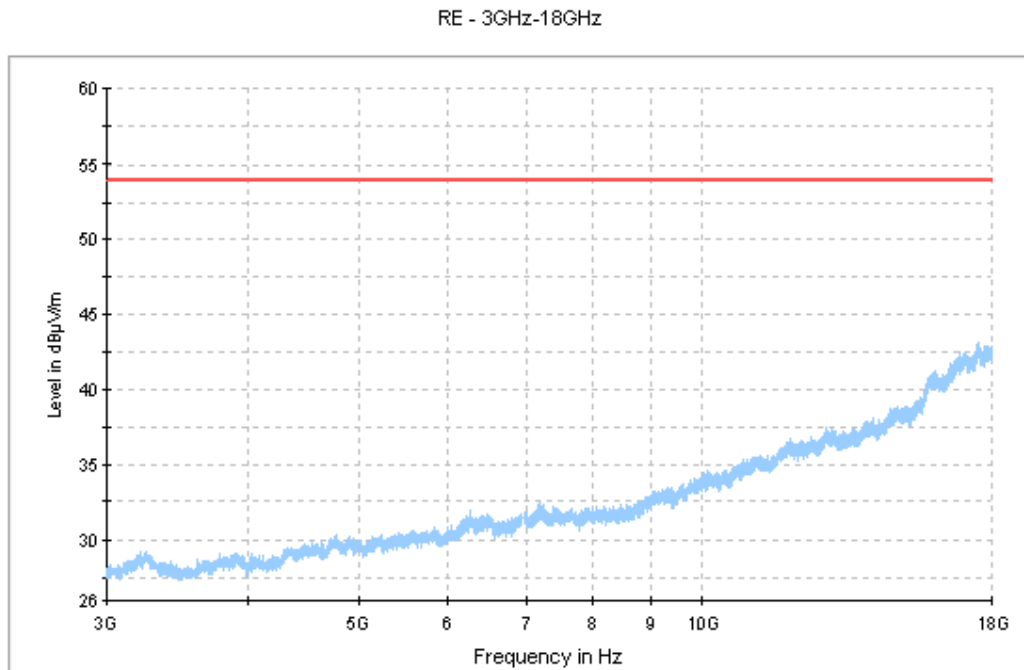


Fig. 146 Radiated Spurious Emission (802.11g, Ch6, 3 GHz-18 GHz)

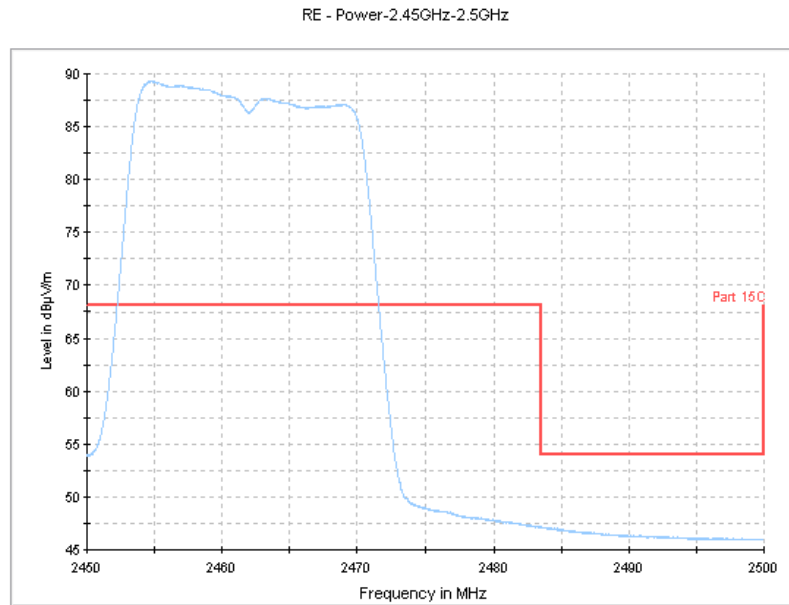


Fig. 147 Radiated Spurious Emission (Power): 802.11g, ch11, 2.45 GHz - 2.50GHz

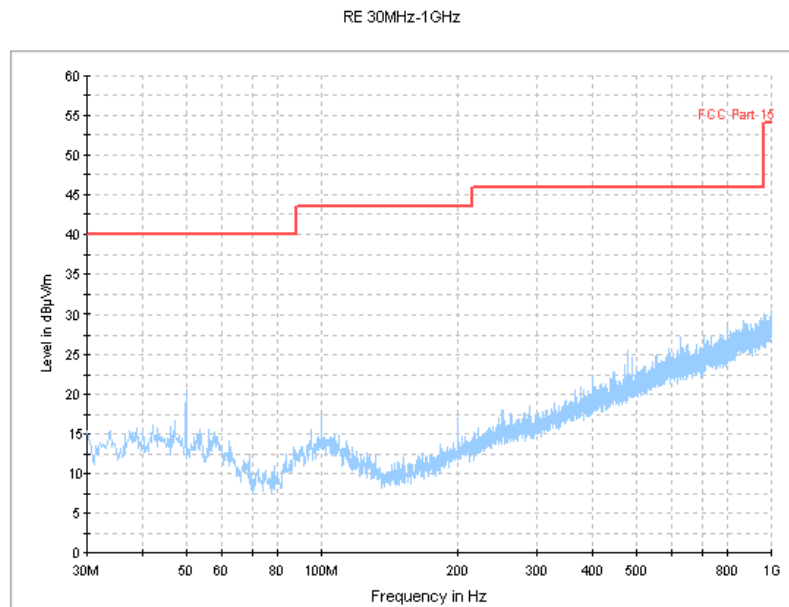


Fig. 148 Radiated Spurious Emission (802.11g, Ch11, 30 MHz-1 GHz)

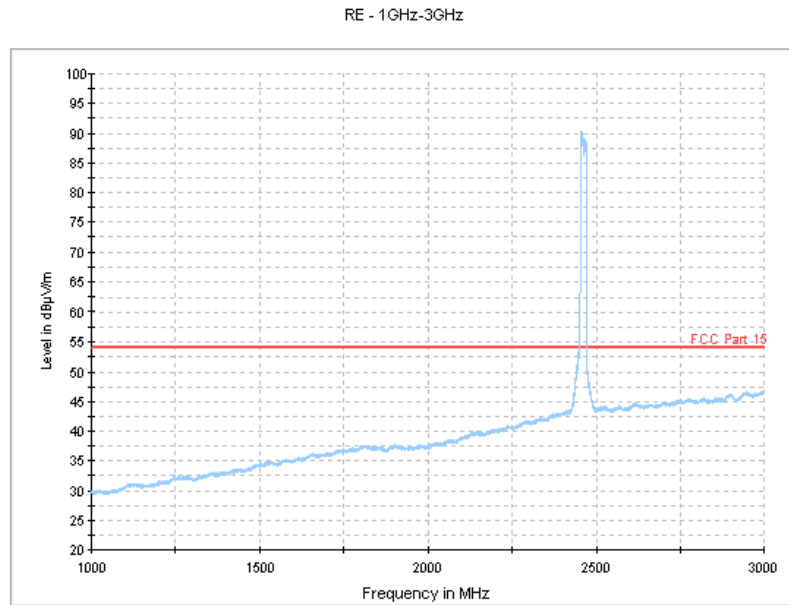


Fig. 149 Radiated Spurious Emission (802.11g, Ch11, 1 GHz-3 GHz)

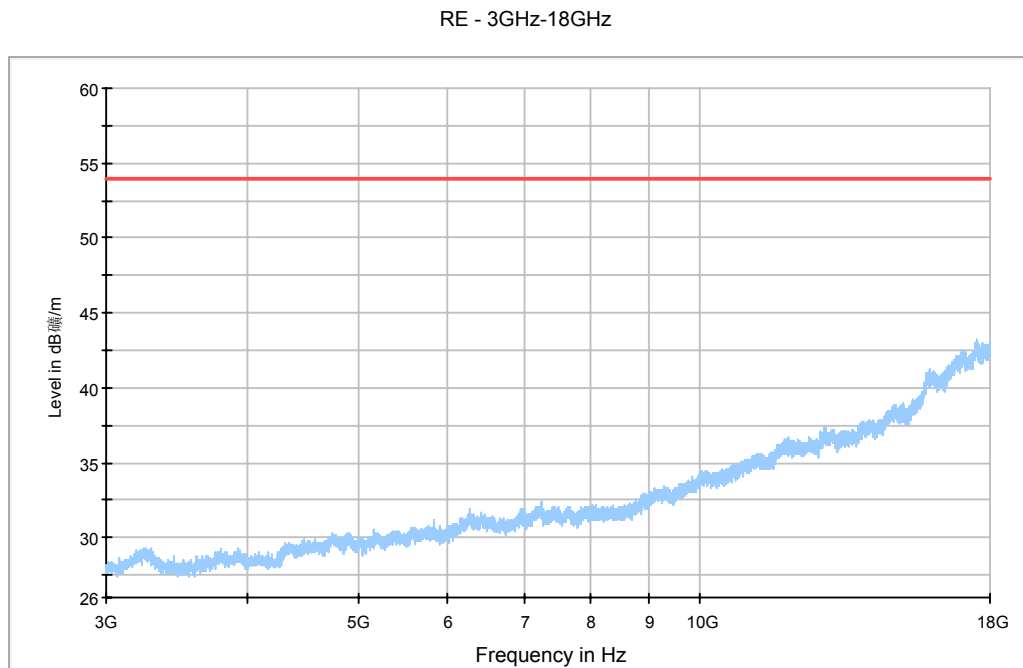


Fig. 150 Radiated Spurious Emission (802.11g, Ch11, 3 GHz-18 GHz)

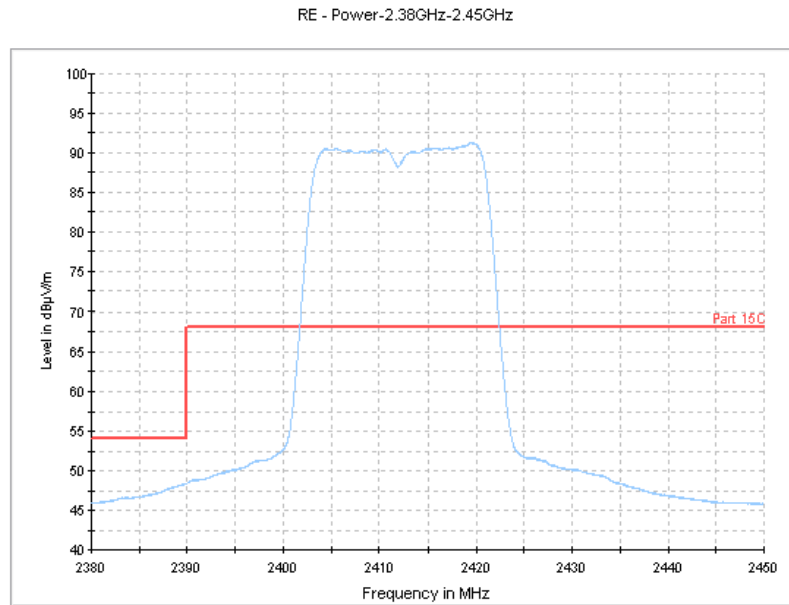


Fig. 151 Radiated Spurious Emission (Power): 802.11n-20MHz, ch1, 2.38 GHz - 2.45GHz

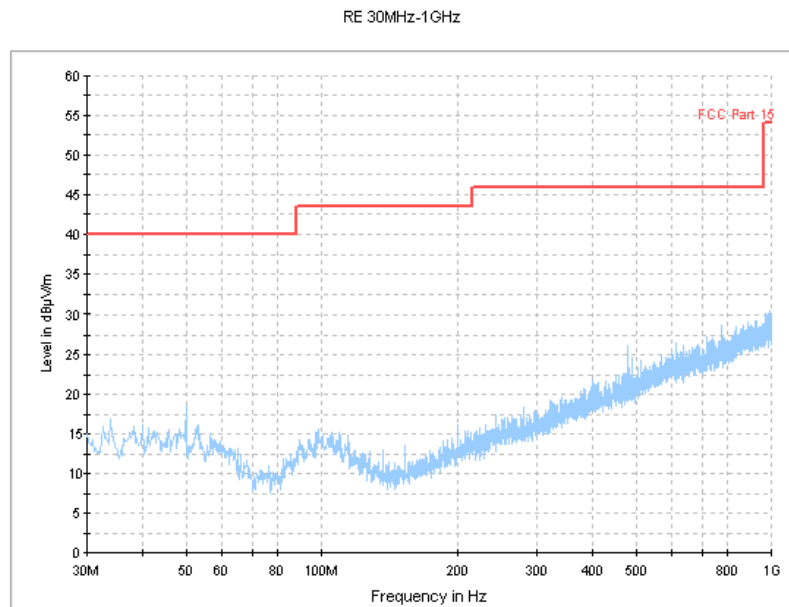


Fig. 152 Radiated Spurious Emission (802.11n-20MHz, Ch1, 30 MHz-1 GHz)

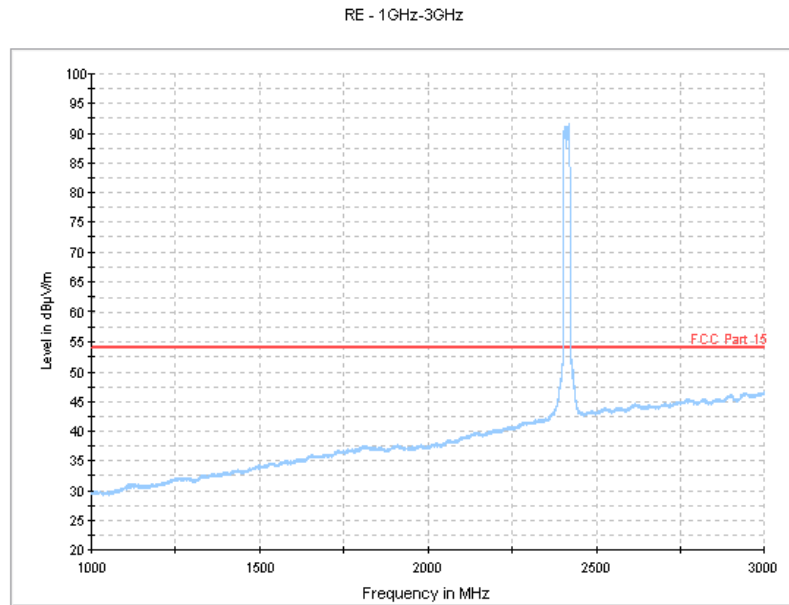


Fig. 153 Radiated Spurious Emission (802.11n-20MHz, Ch1, 1 GHz-3 GHz)

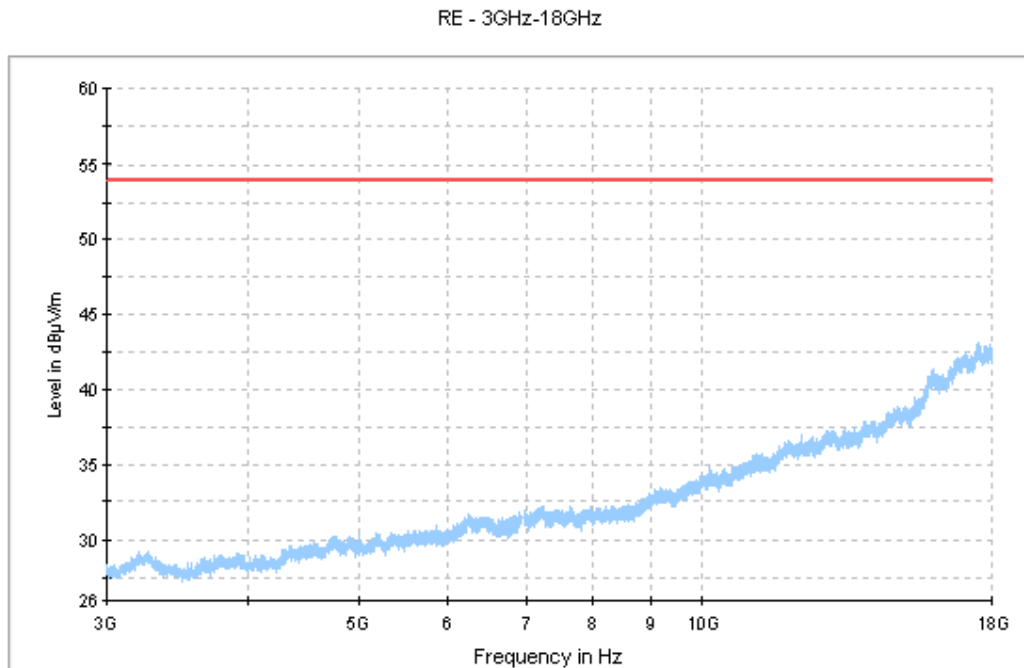


Fig. 154 Radiated Spurious Emission (802.11n-20MHz, Ch1, 3 GHz-18 GHz)

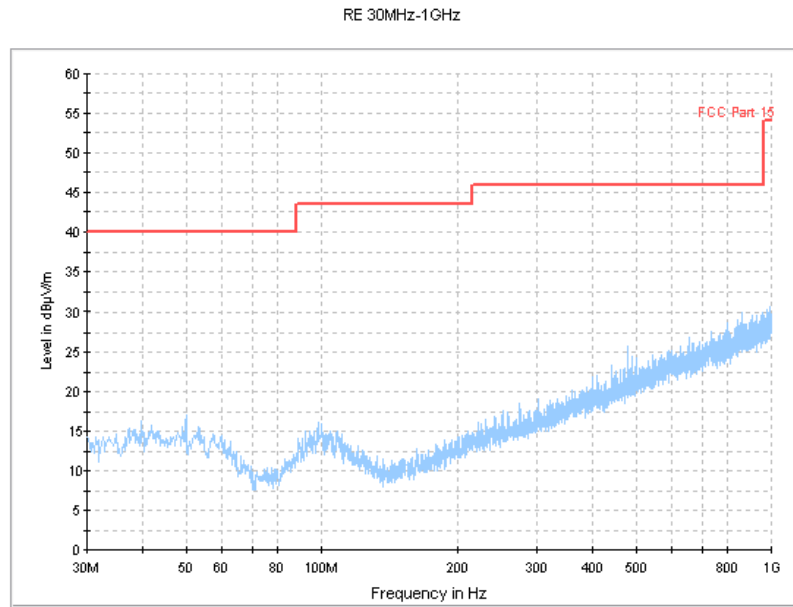


Fig. 155 Radiated Spurious Emission (802.11n-20MHz, Ch6, 30 MHz-1 GHz)

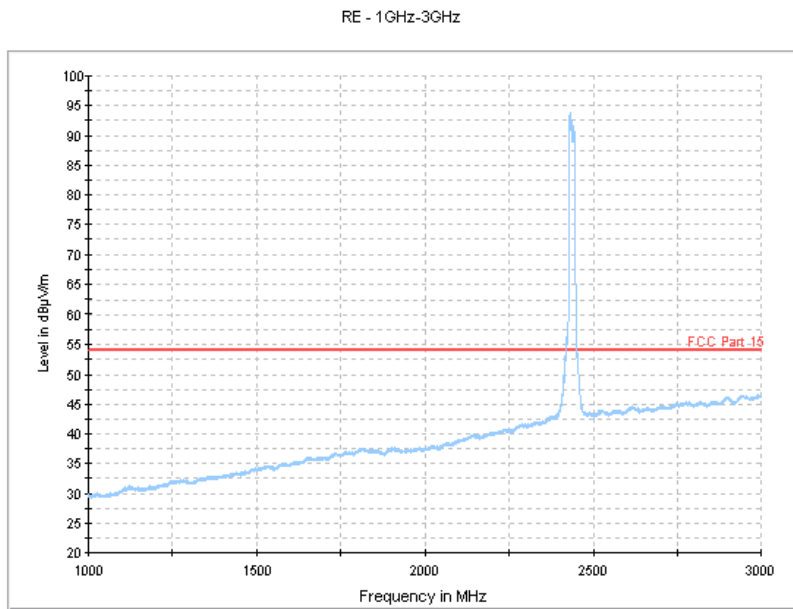


Fig. 156 Radiated Spurious Emission (802.11n-20MHz, Ch6, 1 GHz-3 GHz)

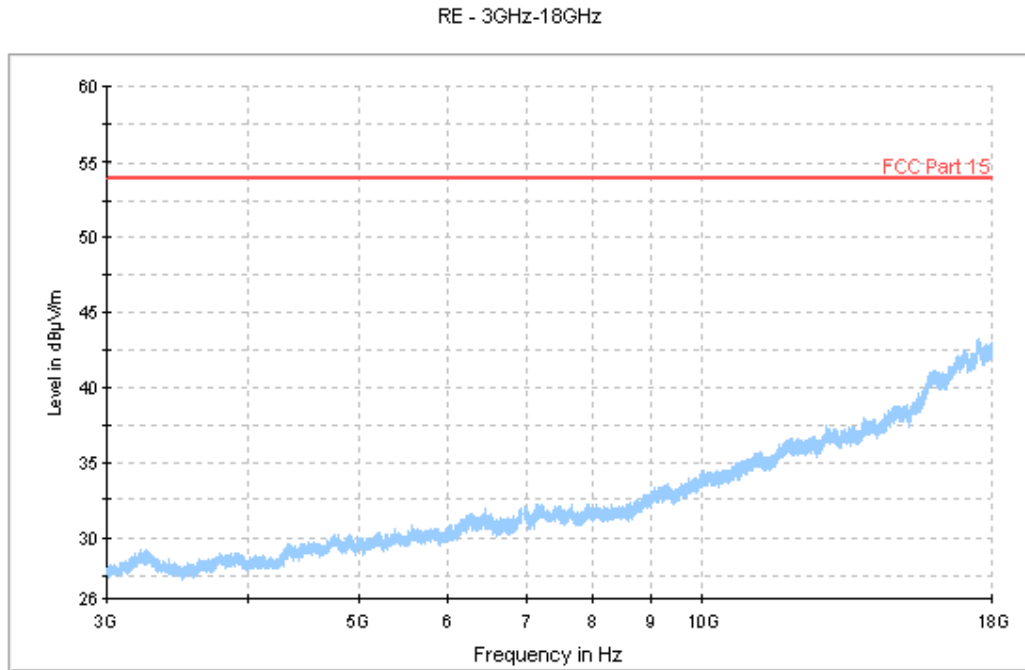


Fig. 157 Radiated Spurious Emission (802.11n-20MHz, Ch6, 3 GHz-18 GHz)

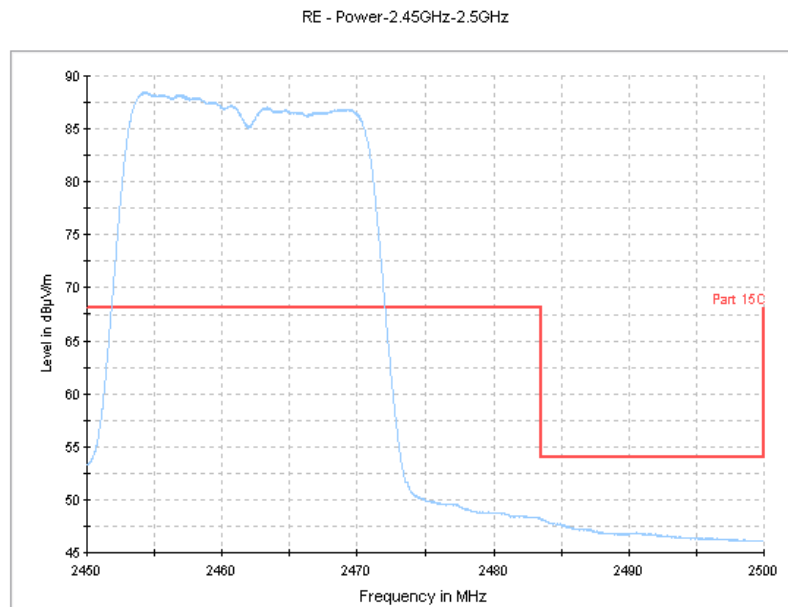


Fig. 158 Radiated Spurious Emission (Power): 802.11n-20MHz, ch11, 2.45 GHz - 2.50GHz

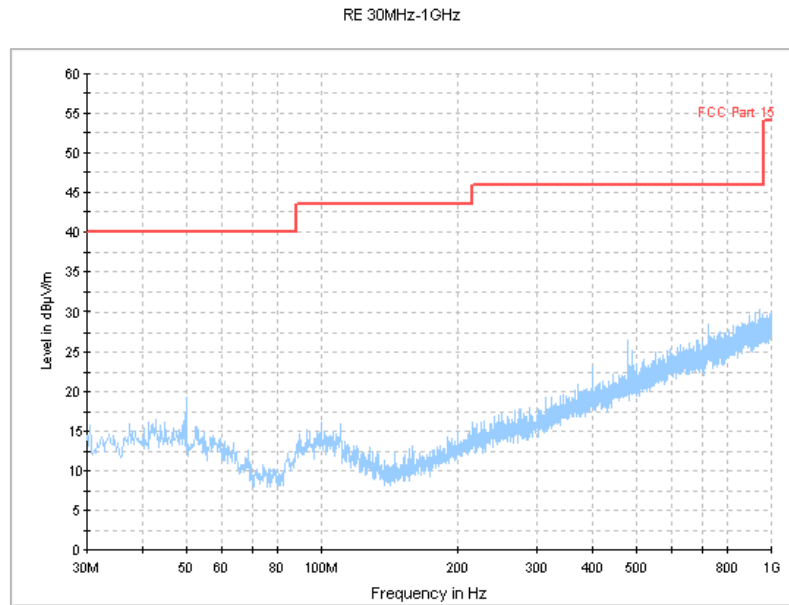


Fig. 159 Radiated Spurious Emission (802.11n-20MHz, Ch11, 30 MHz-1 GHz)

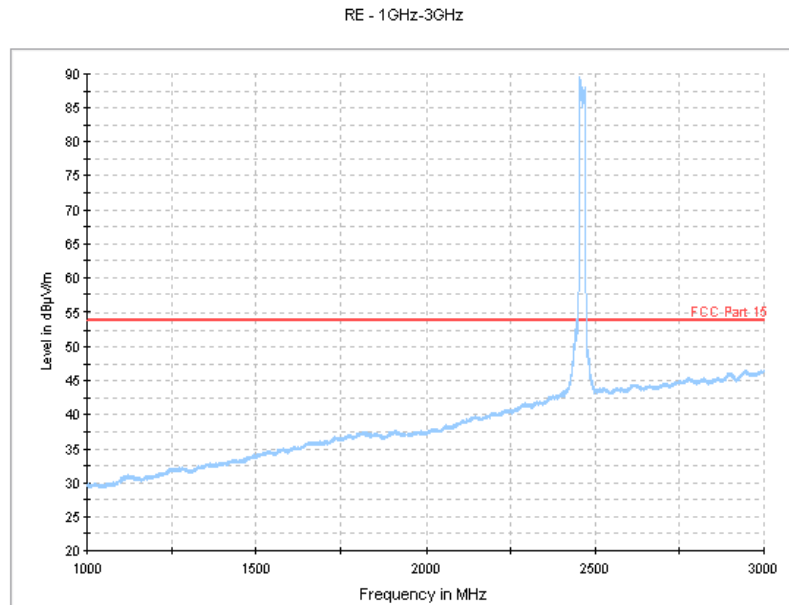


Fig. 160 Radiated Spurious Emission (802.11n-20MHz, Ch11, 1 GHz-3 GHz)

RE - 3GHz-18GHz

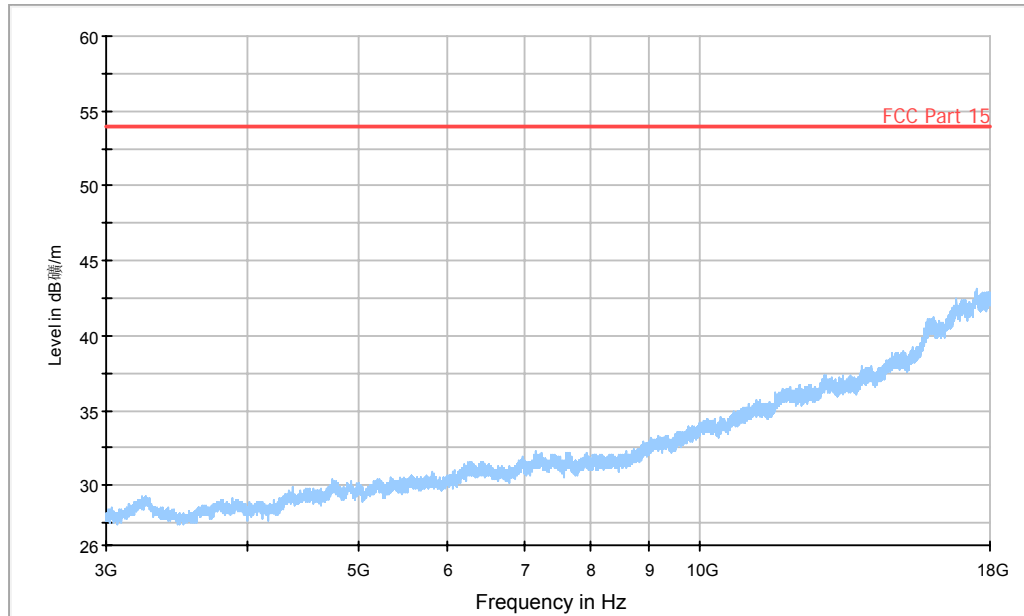


Fig. 161 Radiated Spurious Emission (802.11n-20MHz, Ch11, 3 GHz-18 GHz)

RE - Power-2.38GHz-2.45GHz

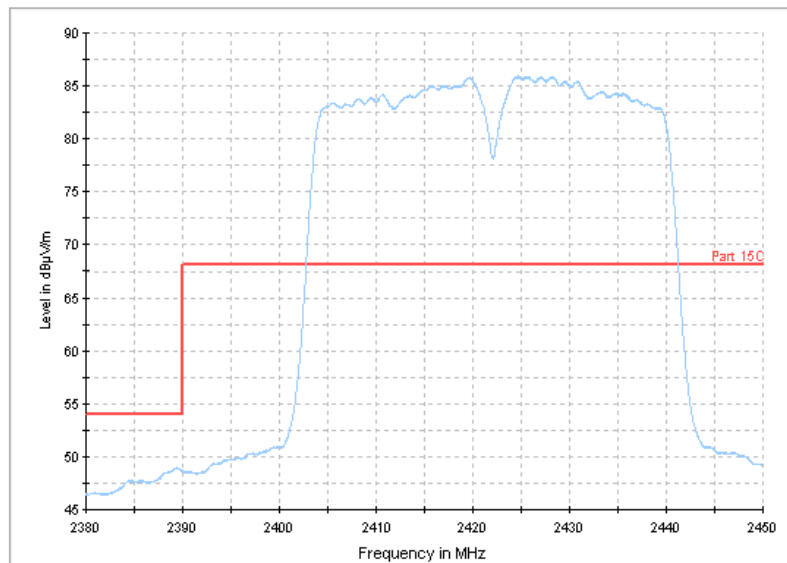


Fig. 162 Radiated Spurious Emission (Power): 802.11n-40MHz, ch3, 2.38 GHz - 2.45GHz

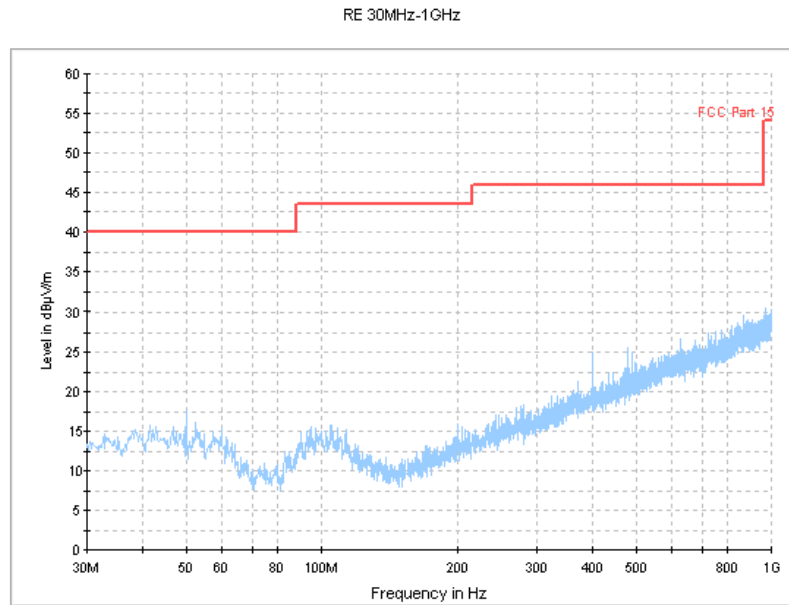


Fig. 163 Radiated Spurious Emission (802.11n-40MHz, Ch3, 30 MHz-1 GHz)

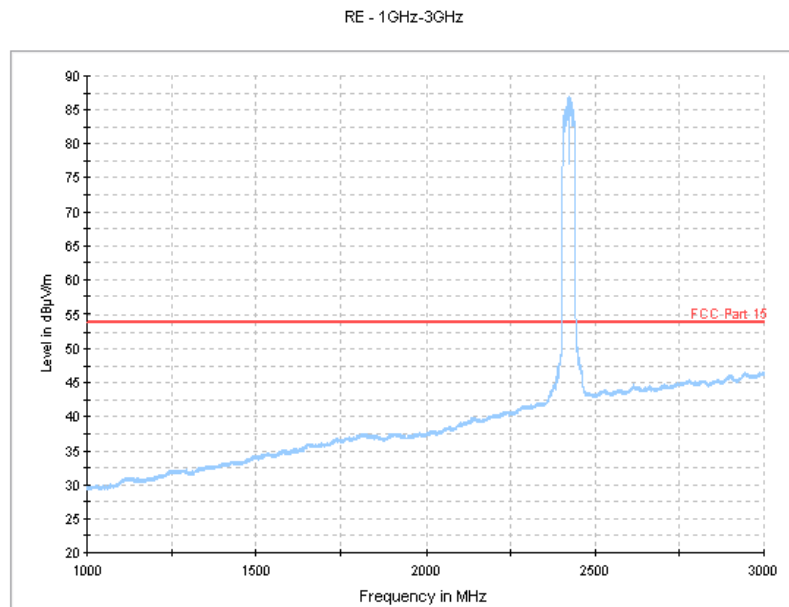


Fig. 164 Radiated Spurious Emission (802.11n-40MHz, Ch3, 1 GHz-3 GHz)

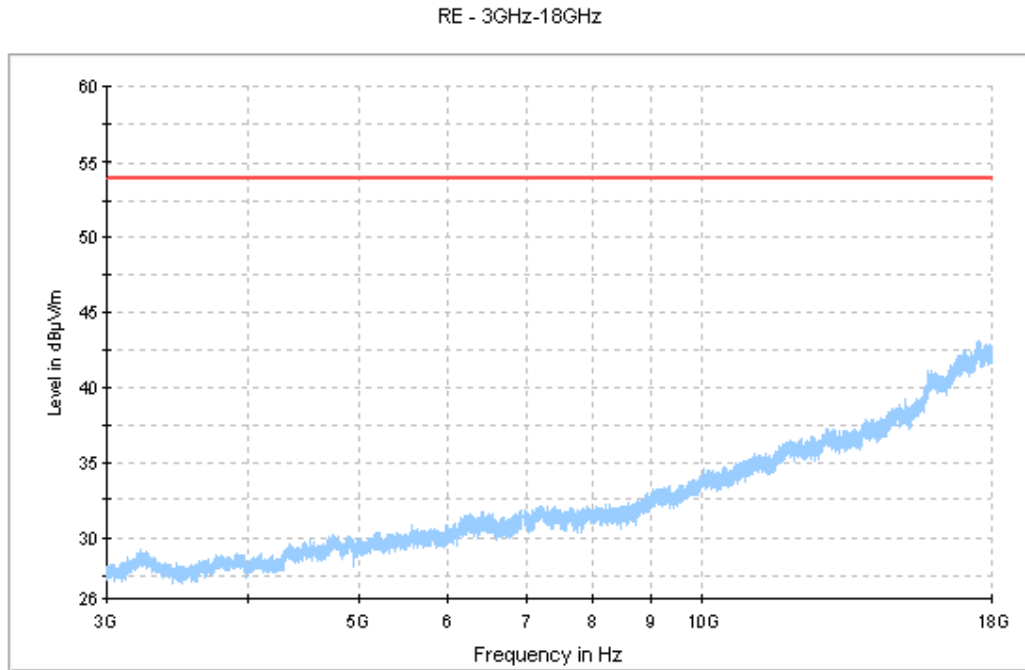


Fig. 165 Radiated Spurious Emission (802.11n-40MHz, Ch3, 3 GHz-18 GHz)

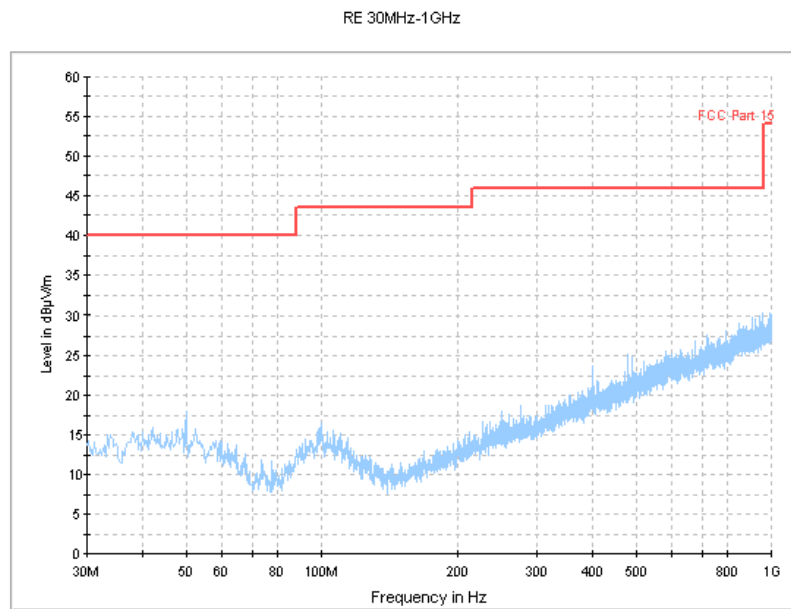


Fig. 166 Radiated Spurious Emission (802.11n-40MHz, Ch6, 30 MHz-1 GHz)

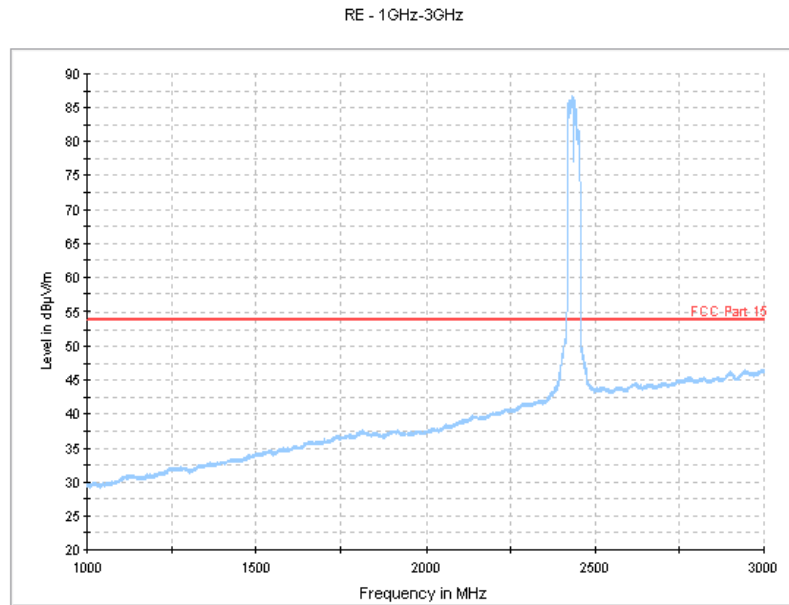


Fig. 167 Radiated Spurious Emission (802.11n-40MHz, Ch6, 1 GHz-3 GHz)

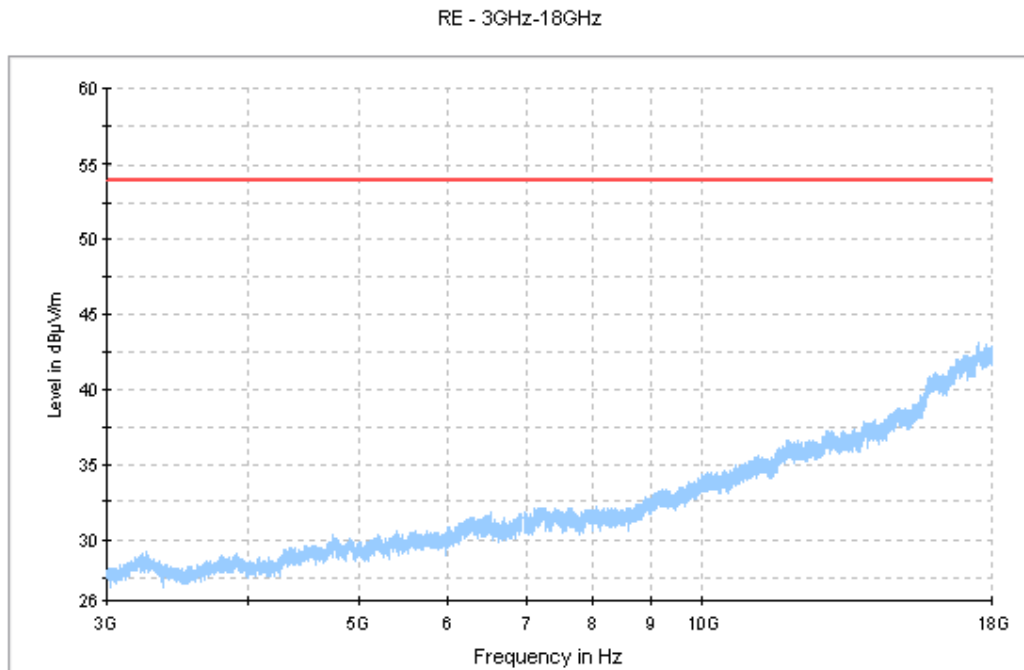


Fig. 168 Radiated Spurious Emission (802.11n-40MHz, Ch6, 3 GHz-18 GHz)

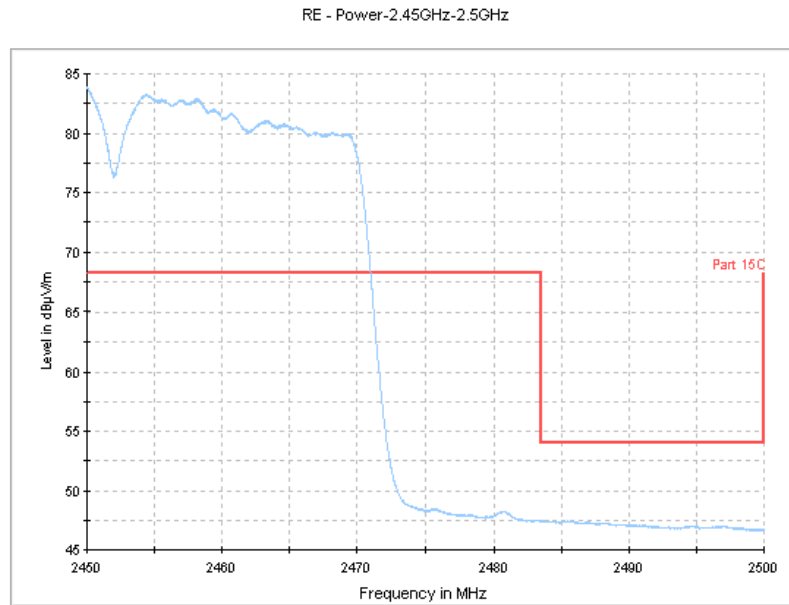


Fig. 169 Radiated Spurious Emission (Power): 802.11n-40MHz, ch9, 2.45 GHz - 2.50GHz

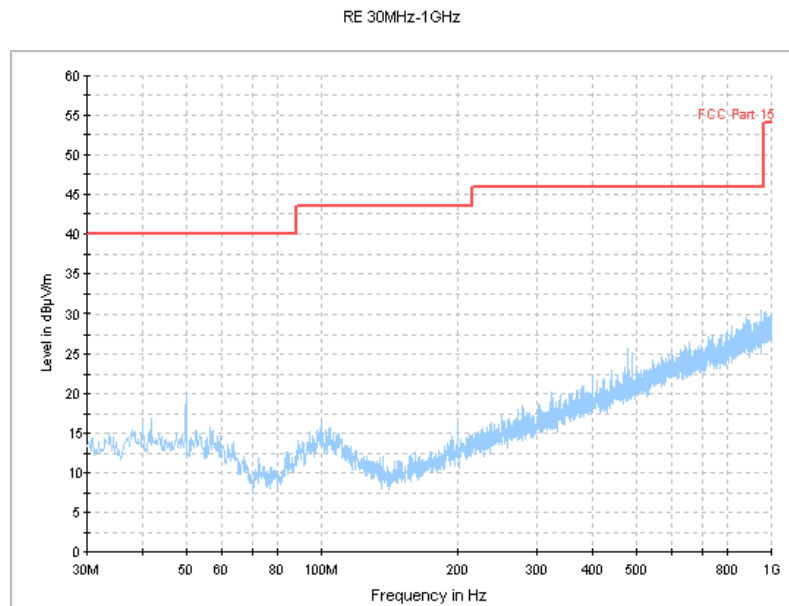


Fig. 170 Radiated Spurious Emission (802.11n-40MHz, Ch9, 30 MHz-1 GHz)

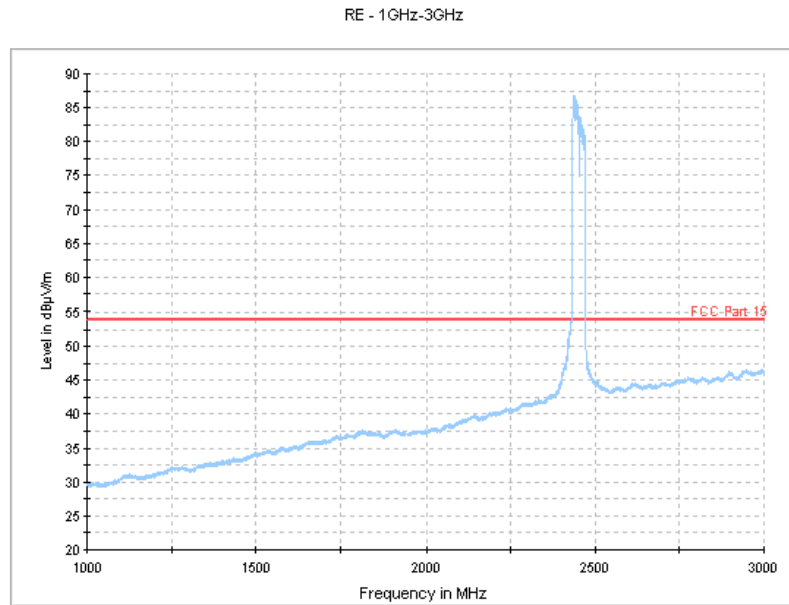


Fig. 171 Radiated Spurious Emission (802.11n-40MHz, Ch9, 1 GHz-3 GHz)

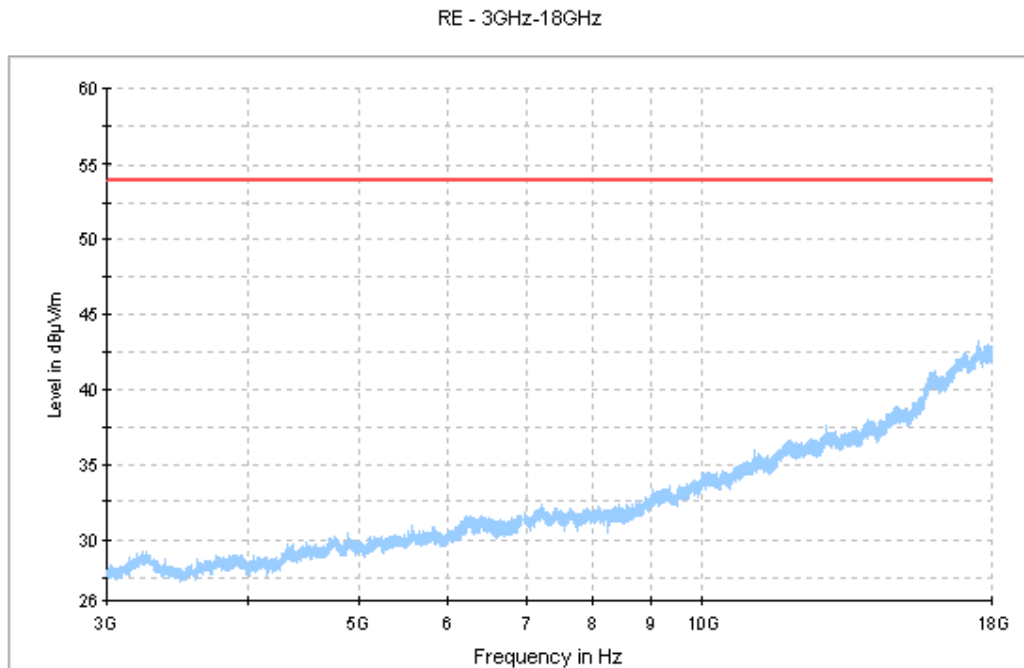


Fig. 172 Radiated Spurious Emission (802.11n-40MHz, Ch9, 3 GHz-18 GHz)

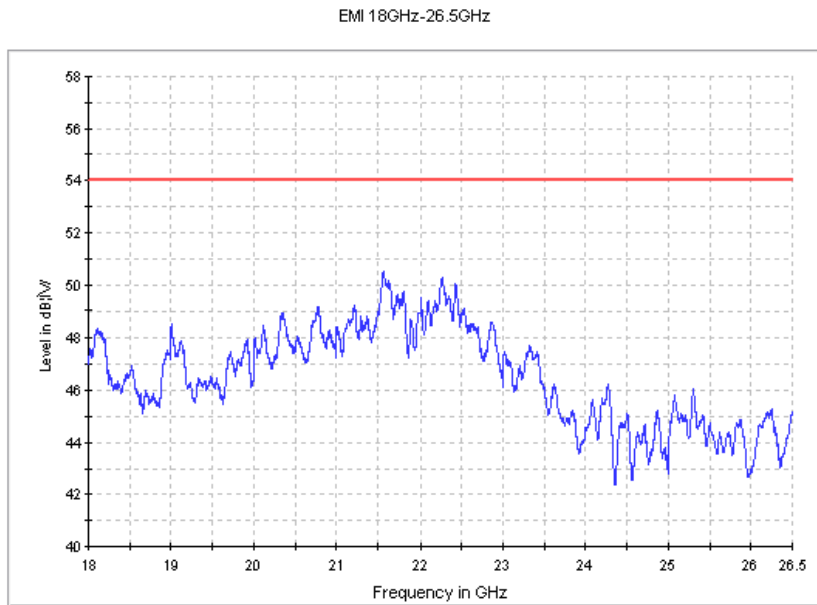


Fig. 173 Radiated Spurious Emission (All channels): 18GHz - 26.5GHz

A.7. AC Powerline Conducted Emission

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement Result and limit:

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)				Conclusion
		With charger				
		802.11b	802.11g	802.11n HT20	802.11n HT40	
0.15 to 0.5	66 to 56	Fig. 174	Fig.175	Fig.176	Fig.177	P
0.5 to 5	56					
5 to 30	60					

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

WLAN (Average Limit)

Frequency range (MHz)	Average Limit (dB μ V)	Result (dB μ V)				Conclusion
		With charger				
		802.11b	802.11g	802.11n HT20	802.11n HT40	
0.15 to 0.5	56 to 46	Fig.174	Fig.175	Fig.176	Fig.177	P
0.5 to 5	46					
5 to 30	50					

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

The measurement is made according to ANSI C63.10

Conclusion: PASS

Test graphs as below:

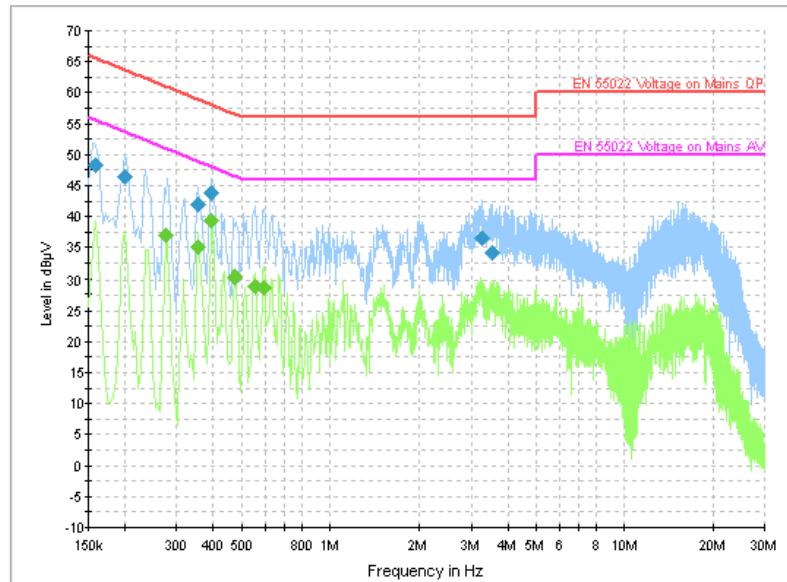


Fig. 174 AC Powerline Conducted Emission-802.11b

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.159000	48.3	GND	L1	10.0	17.2	65.5
0.199500	46.5	GND	N	10.0	17.2	63.6
0.357000	41.8	GND	L1	10.0	17.0	58.8
0.393000	43.8	GND	L1	10.0	14.2	58.0
3.273000	36.4	GND	N	10.0	19.6	56.0
3.529500	34.2	GND	L1	10.0	21.8	56.0

Final Result 2

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.276000	36.9	GND	L1	10.0	14.1	50.9
0.357000	35.0	GND	L1	10.0	13.8	48.8
0.393000	39.2	GND	L1	10.0	8.8	48.0
0.474000	30.4	GND	L1	10.0	16.0	46.4
0.555000	29.0	GND	L1	10.0	17.0	46.0
0.595500	28.7	GND	L1	10.0	17.3	46.0

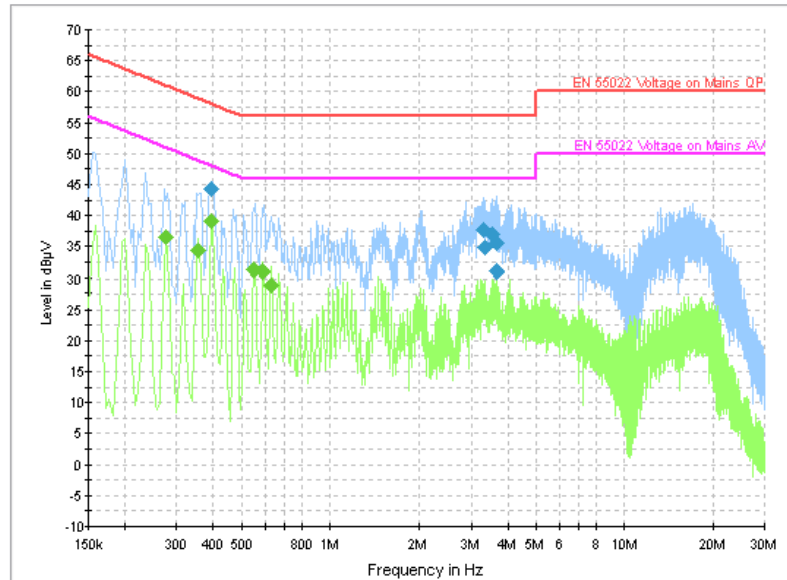


Fig. 175 AC Powerline Conducted Emission-802.11g

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.393000	44.3	GND	L1	10.0	13.7	58.0
3.300000	37.7	GND	N	10.0	18.3	56.0
3.340500	34.8	GND	N	10.0	21.2	56.0
3.552000	36.9	GND	L1	10.0	19.1	56.0
3.646500	31.1	GND	L1	10.0	24.9	56.0
3.655500	35.6	GND	N	10.0	20.4	56.0

Final Result 2

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.276000	36.6	GND	L1	10.0	14.4	50.9
0.357000	34.3	GND	L1	10.0	14.5	48.8
0.393000	39.2	GND	L1	10.0	8.8	48.0
0.550500	31.3	GND	L1	10.0	14.7	46.0
0.591000	31.1	GND	L1	10.0	14.9	46.0
0.631500	28.8	GND	L1	10.0	17.2	46.0

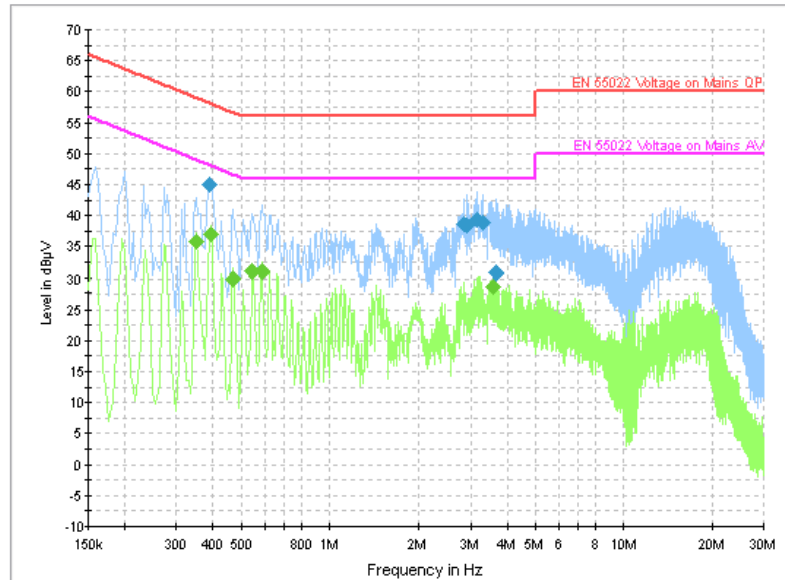


Fig. 176 AC Powerline Conducted Emission-802.11n-HT20

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.388500	45.0	GND	L1	10.0	13.1	58.1
2.854500	38.5	GND	N	10.0	17.5	56.0
2.895000	38.4	GND	N	10.0	17.6	56.0
3.169500	39.2	GND	N	10.0	16.8	56.0
3.286500	38.8	GND	N	10.0	17.2	56.0
3.664500	30.9	GND	L1	10.0	25.1	56.0

Final Result 2

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.352500	35.8	GND	L1	10.0	13.1	48.9
0.393000	36.9	GND	L1	10.0	11.1	48.0
0.469500	30.0	GND	L1	10.0	16.5	46.5
0.546000	31.0	GND	L1	10.0	15.0	46.0
0.586500	31.0	GND	L1	10.0	15.0	46.0
3.570000	28.8	GND	L1	10.0	17.2	46.0

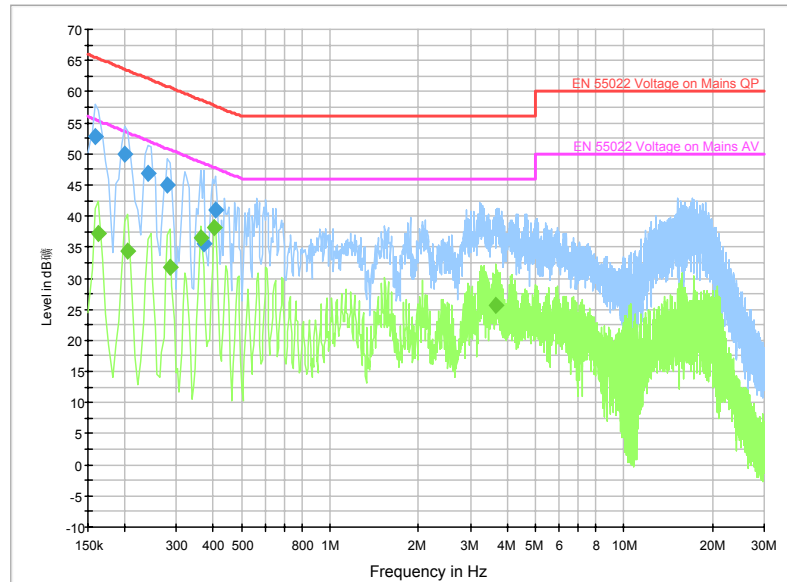


Fig. 177 AC Powerline Conducted Emission-802.11n-HT40

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.159000	52.7	GND	L1	10.0	12.9	65.5
0.199500	50.0	GND	N	10.0	13.6	63.6
0.240000	46.8	GND	N	10.0	15.3	62.1
0.280500	44.9	GND	N	10.0	15.9	60.8
0.370500	35.6	GND	L1	10.0	22.9	58.5
0.406500	40.9	GND	N	10.0	16.8	57.7

Final Result 2

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.163500	37.1	GND	L1	10.0	18.2	55.3
0.204000	34.4	GND	L1	10.0	19.0	53.4
0.285000	31.7	GND	L1	10.0	19.0	50.7
0.361500	36.5	GND	L1	10.0	12.2	48.7
0.402000	38.0	GND	L1	10.0	9.8	47.8
3.678000	25.6	GND	L1	10.0	20.4	46.0

*** END OF REPORT BODY ***