



**FCC PART 15C  
TEST REPORT  
No. 2013WLN0758**

**for**

**TCT Mobile Limited**

**HSUPA/HSDPA/UMTS triband/GSM quadband mobile phone**

**Model Name: Yaris-4.5 US 1SIM DTV**

**Marketing Name: ONE TOUCH 5037A**

**With**

**FCC ID: RAD413**

**Hardware Version: proto**

**Software Version: vF06**

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**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, Huayuan Bei Road, Haidian District, Beijing, P. R. China  
Postal Code: 100191  
Telephone: 008610623046332046  
Fax: 008610623046332063

### 1.2. Project Data

Testing Start Date: 2013-08-26  
Testing End Date: 2013-09-02

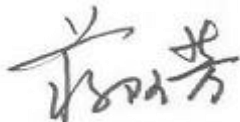
### 1.3. Signature



---

Xu Zhongfei

(Prepared this test report)



---

Jiang Afang

(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: 5F, C building, No. 232, Liang Jing Road ZhangJiang High-Tech Park,  
Pudong Area Shanghai, P.R. China. 201203  
Contact Gong Zhizhou  
Email zhizhou.gong@jrdcom.com  
Telephone: 0086-21-61460890  
Fax: 0086-21-61460602

### **2.2. Manufacturer Information**

Company Name: TCT Mobile Limited  
Address /Post: 5F, C building, No. 232, Liang Jing Road ZhangJiang High-Tech Park,  
Pudong Area Shanghai, P.R. China. 201203  
Contact Gong Zhizhou  
Email zhizhou.gong@jrdcom.com  
Telephone: 0086-21-61460890  
Fax: 0086-21-61460602



### **3. EQUIPMENT UNDER TEST(EUT) AND ANCILLARY EQUIPMENT(AE)**

#### **3.1. About EUT**

Description	HSUPA/HSDPA/UMTS triband/GSM quadband mobile phone
Type	Yaris-4.5 US 1SIM DTV
Marketing Name	ONE TOUCH 5037A
FCC ID	RAD413
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	23.92dBm(CCK)
GPRS Class	Class 12
GPRS operation mode	B
Power Supply	3.8V DC by Battery

#### **3.2. Internal Identification of EUT Used During the Test**

<b>EUT ID*</b>	<b>IMEI</b>	<b>HW Version</b>	<b>SW Version</b>
EUT1	/	proto	vF06
EUT2	/	proto	vF06

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

#### **3.3. Internal Identification of AE Used During the Test**

<b>AE ID*</b>	<b>Description</b>	<b>Type</b>	<b>SN</b>
AE1	Battery	CAB32E0000C1	/
AE2	Charger	CBA3008AA0C1	/

\*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.

## 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.

Reference	Title	Version
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, 2012
ANSI C63.4	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2003
KDB558074	Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247	2012

## 5. LABORATORY ENVIRONMENT

Conducted RF performance testing is performed in shielding room.

EMC performance testing is performed in Semi-anechoic chamber.

## 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 (b)	/	P
Peak Power Spectral Density	15.247 (e)	/	P
Occupied 6dB Bandwidth	15.247 (a)	/	P
Band Edges Compliance	15.247 (d)	/	P
Transmitter Spurious Emission - Conducted	15.247 (d)	/	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.

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/manufacture 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.

This model is a variant product which market name is ONE TOUCH 5036A; all the test result has been derived from test report of ONE TOUCH 5036A.

## 6.3. Test Conditions

For this report, all the test cases are tested under normal temperature and normal voltage, and also under norm humidity, the specific condition is shown as follows:

Temperature	26°C
Voltage	3.8V (By battery)
Humidity	44%

## 7. TEST EQUIPMENTS UTILIZED

### Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration date	Calibration Due date
1	Vector Signal Analyzer	FSQ40	200089	Rohde & Schwarz	2013-07-08	2014-07-07
2	Test Receiver	ESS	847151/015	Rohde & Schwarz	2012/12/29	2013-10-30
3	LISN	ESH2-Z5	829991/012	Rohde & Schwarz	2013/4/15	2014-08-12
4	Shielding Room	S81	/	ETS-Lindgren	/	/

### Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration date	Calibration Due date
1	Test Receiver	ESU26	100376	Rohde & Schwarz	2012/11/8	2013/11/7
2	BiLog Antenna	VULB9163	9163-514	Schwarzbeck	2011/11/11	2014/11/10
3	Dual-Ridge Waveguide Horn Antenna	3117	00119024	ETS-Lindgren	2011/2/2	2014/2/1
4	Dual-Ridge Waveguide Horn Antenna	3116	2661	EMCO	2011/7/1	2014-06-30
5	Loop antenna	HFH2-Z2	829324/007	Rohde & Schwarz	2011-12-21	2014-12-20
6	Semi-anechoic chamber	/	CT000332-1074	Frankonia German	/	/

## ANNEX A: MEASUREMENT RESULTS

### A.1. Measurement Method

#### A.1.1. Conducted Measurements

Connect the EUT to the test system as Fig.A.1.1.1 shows.

Set the EUT to the required work mode.

Set the EUT to the required channel.

Set the Vector Signal Analyzer and start measurement.

Record the values. Vector Signal Analyzer

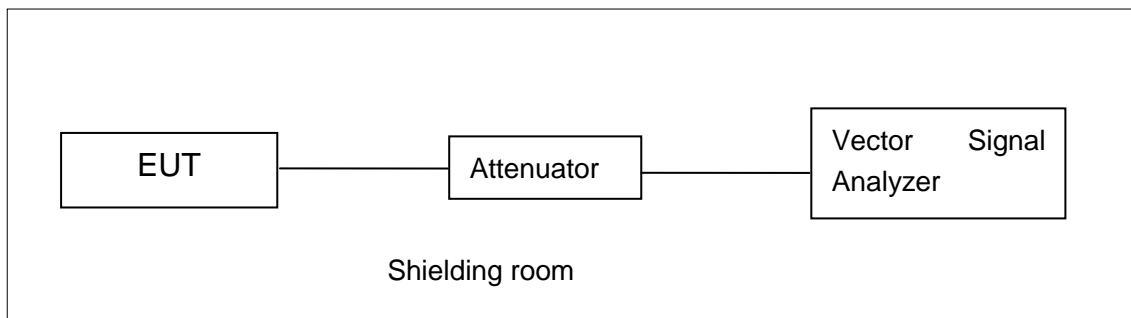


Fig.A.1.1.1: Test Setup Diagram for Conducted Measurements

#### 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;

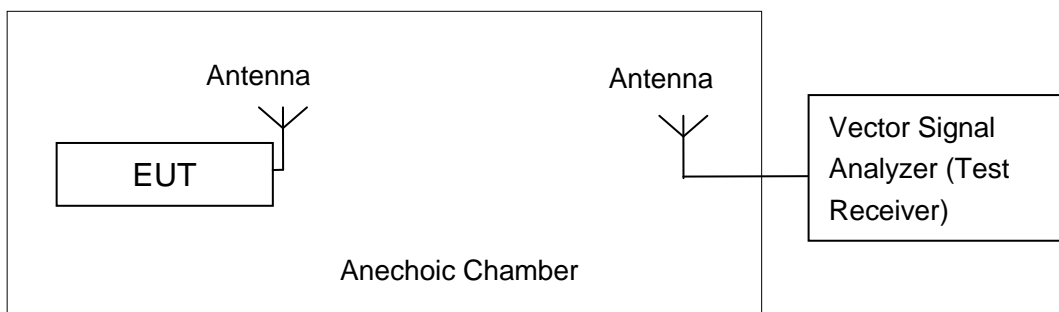


Fig.A.1.2.1: Test Setup Diagram for Radiated Measurements

## 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 KDB558074.

EUT ID: EUT2

### 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	20.46	/	/
	2	20.71	/	/
	5.5	22.16	/	/
	11	23.68	23.92	23.82
802.11g	6	22.98	/	/
	9	22.99	/	/
	12	22.69	/	/
	18	22.70	/	/
	24	23.22	23.08	23.06
	36	22.99	/	/
	48	23.03	/	/
	54	23.04	/	/

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	21.86	/	/
	MCS1	21.58	/	/
	MCS2	21.54	/	/
	MCS3	22.07	21.94	22.05
	MCS4	21.88	/	/
	MCS5	22.01	/	/
	MCS6	21.95	/	/
	MCS7	21.94	/	/

The data rate MCS3 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	19.41	/	/
	MCS1	19.16	/	/
	MCS2	19.10	/	/
	MCS3	19.58	19.61	19.63
	MCS4	19.38	/	/
	MCS5	19.39	/	/
	MCS6	19.45	/	/
	MCS7	19.43	/	/

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	16.55	16.88	16.96
802.11g	13.86	13.92	14.28

**802.11n-HT20 mode**

Mode	Test Result (dBm)		
	2412MHz (Ch1)	2437MHz (Ch6)	2462 MHz (Ch11)
802.11n (20MHz)	12.88	12.86	13.10

**802.11n-HT40 mode**

Mode	Test Result (dBm)		
	2422MHz (Ch3)	2437MHz (Ch6)	2452 MHz (Ch9)
802.11n (40MHz)	10.18	10.27	10.29

**Conclusion: Pass**

**Measurement Uncertainty:**

Measurement Uncertainty	0.75dB
-------------------------	--------

### A.3. Peak Power Spectral Density

**Measurement Limit:**

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

The measurement is made according to KDB558074.

**Modulation type and data rate tested:**

802.11b	802.11g	802.11n-HT20	802.11n-HT40
11Mbps(CCK)	24Mbps(OFDM)	MCS3(OFDM)	MCS3(OFDM)

**Measurement Results:**

**802.11b/g mode**

Mode	Channel	Power Spectral Density ( dBm/3 kHz )		Conclusion
802.11b	1	Fig.A.3.1	-6.62	<b>P</b>
	6	Fig.A.3.2	-7.03	<b>P</b>
	11	Fig.A.3.3	-6.50	<b>P</b>
802.11g	1	Fig.A.3.4	-9.26	<b>P</b>
	6	Fig.A.3.5	-11.11	<b>P</b>
	11	Fig.A.3.6	-9.80	<b>P</b>

**802.11n-HT20 mode**

Mode	Channel	Power Spectral Density ( dBm/3 kHz )		Conclusion
802.11n (HT20)	1	Fig.A.3.7	-12.00	<b>P</b>
	6	Fig.A.3.8	-12.20	<b>P</b>
	11	Fig.A.3.9	-11.50	<b>P</b>

**802.11n-HT40 mode**

Mode	Channel	Power Spectral Density ( dBm/3 kHz )		Conclusion
802.11n (HT40)	3	Fig.A.3.10	-18.71	<b>P</b>
	6	Fig.A.3.11	-18.27	<b>P</b>
	9	Fig.A.3.12	-18.24	<b>P</b>

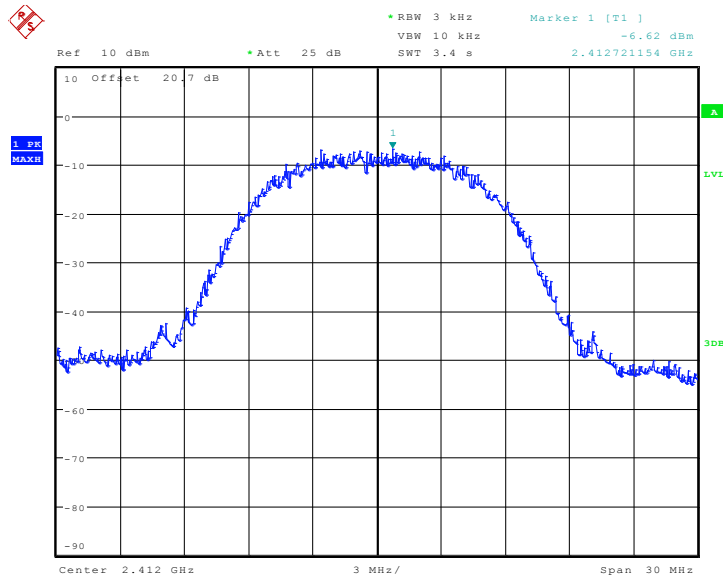
**Conclusion: Pass**

**Measurement Uncertainty:**

Measurement Uncertainty	0.75dB
-------------------------	--------

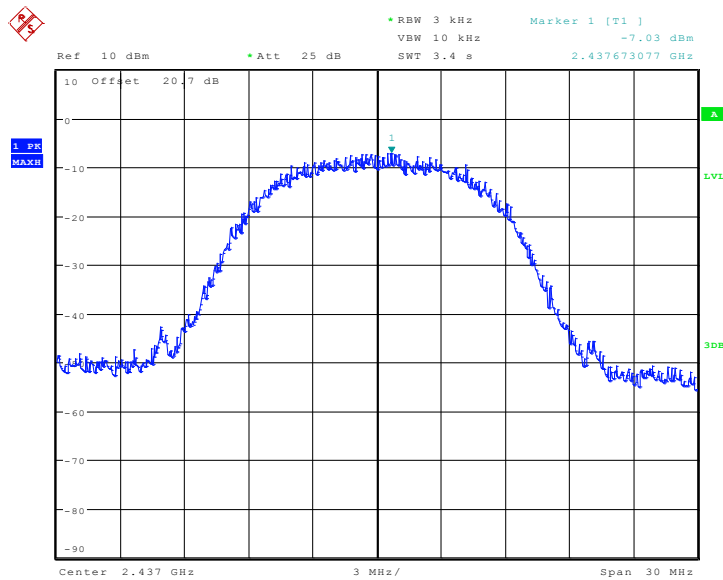
**Test graphs as below:**





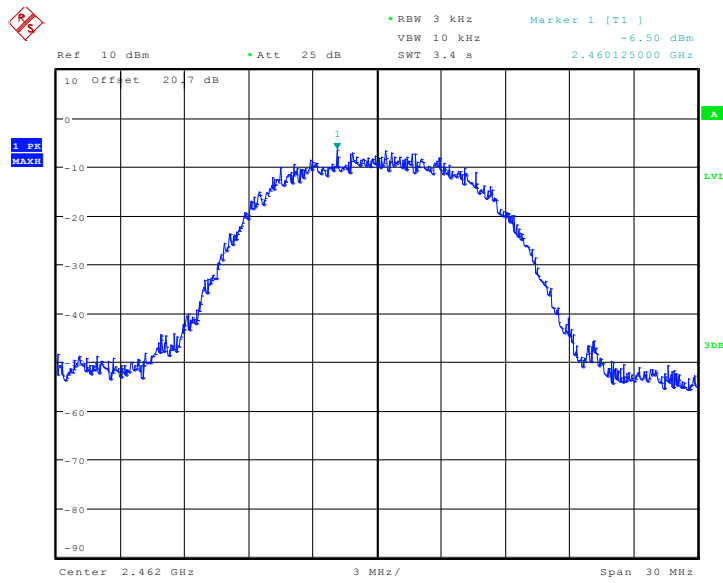
Date: 2.SEP.2013 10:02:46

**Fig.A.3.1 Power Spectral Density (802.11b, Ch 1)**



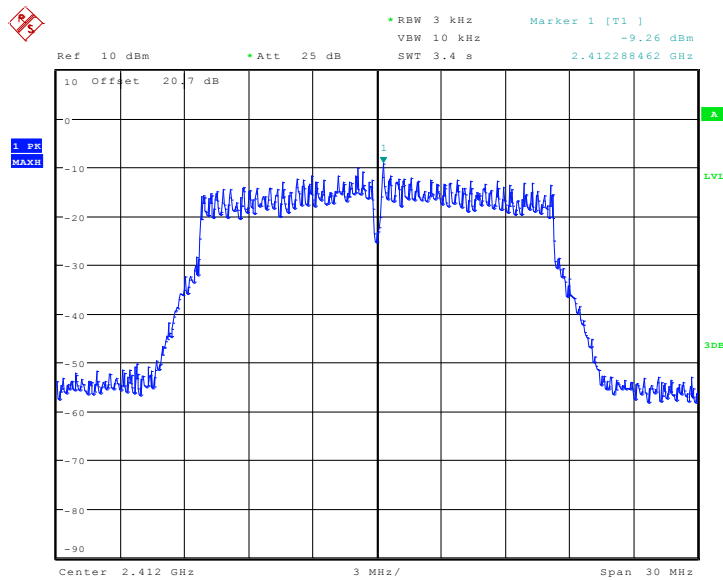
Date: 2.SEP.2013 10:03:34

**Fig.A.3.2 Power Spectral Density (802.11b, Ch 6)**



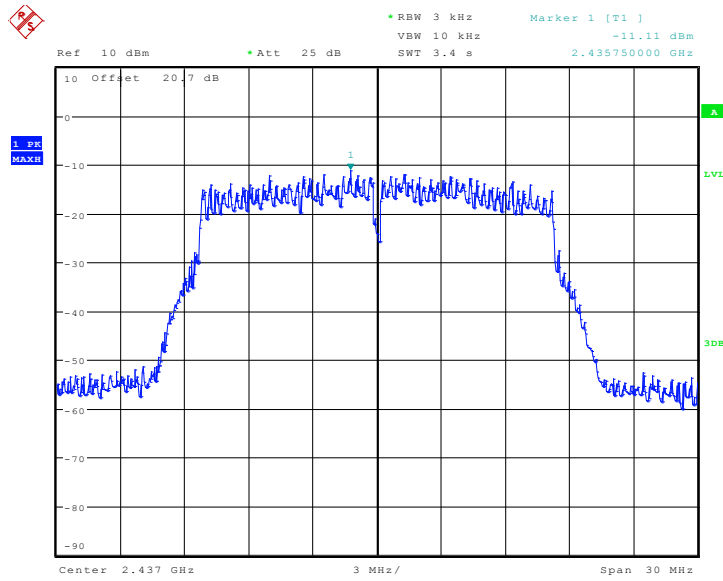
Date: 2.SEP.2013 10:04:10

**Fig.A.3.3 Power Spectral Density (802.11b, Ch 11)**



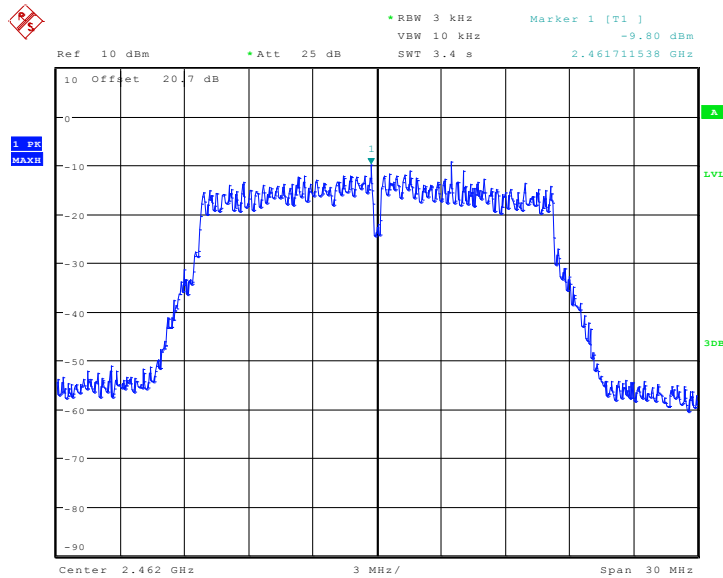
Date: 2.SEP.2013 10:05:14

**Fig.A.3.4 Power Spectral Density (802.11g, Ch 1)**



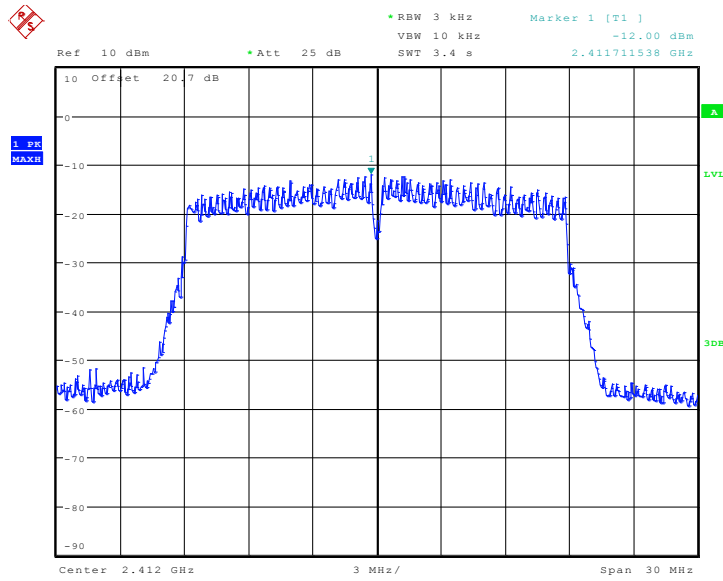
Date: 2.SEP.2013 10:06:11

**Fig.A.3.5 Power Spectral Density (802.11g, Ch 6)**



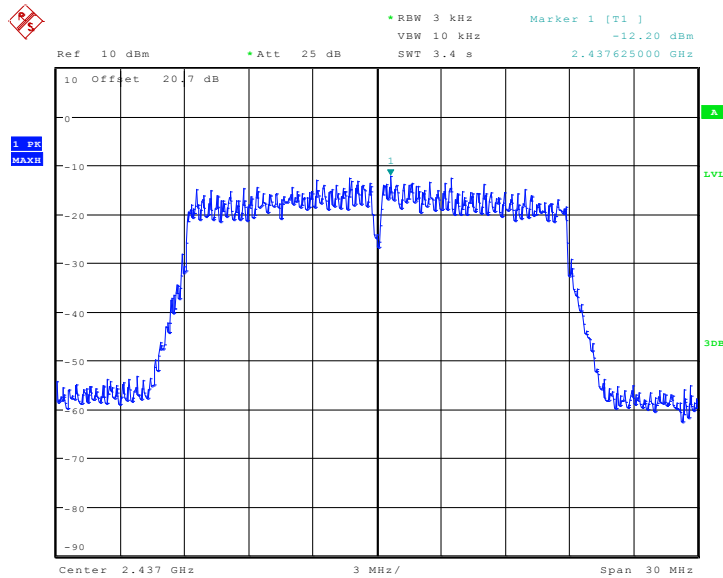
Date: 2.SEP.2013 10:06:48

**Fig.A.3.6 Power Spectral Density (802.11g, Ch 11)**



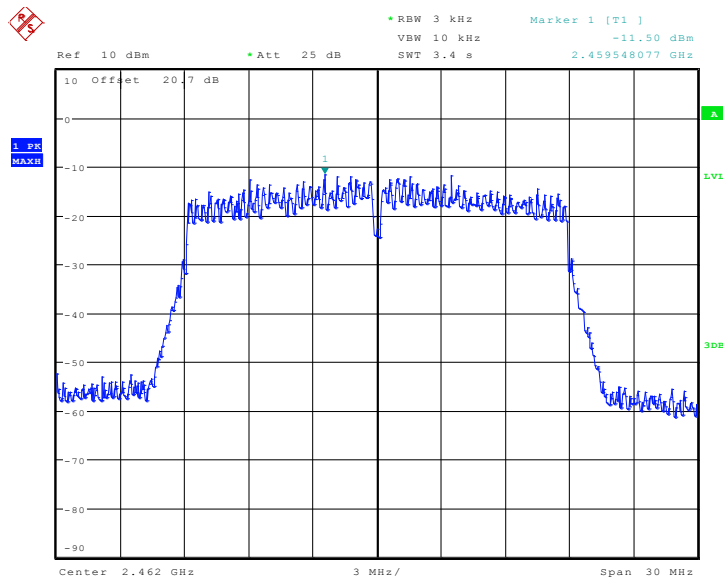
Date: 2.SEP.2013 10:18:54

**Fig.A.3.7 Power Spectral Density (802.11n-HT20, Ch 1)**



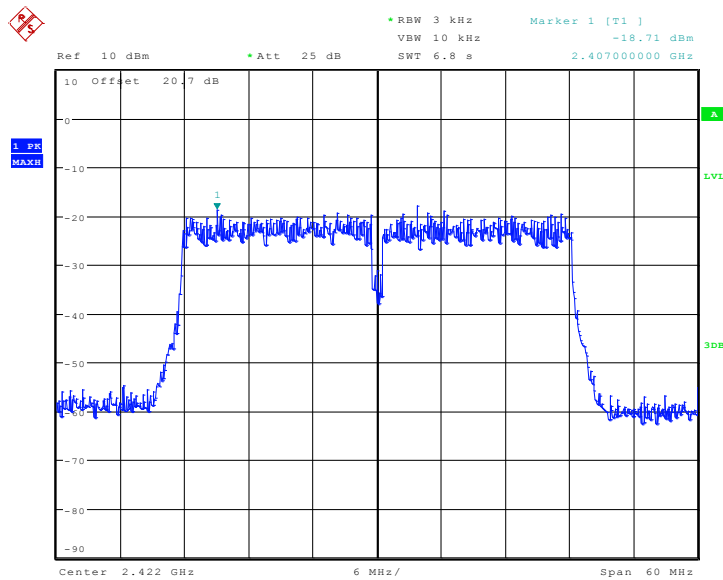
Date: 2.SEP.2013 10:19:47

**Fig.A.3.8 Power Spectral Density (802.11n-HT20, Ch 6)**



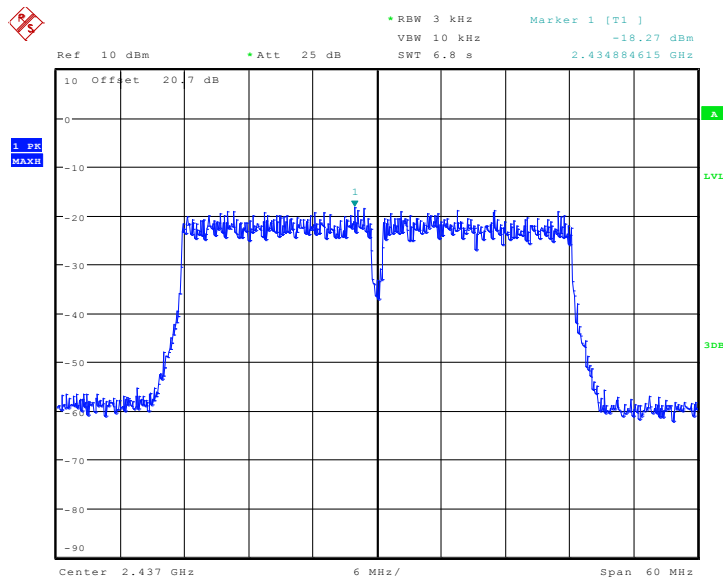
Date: 2.SEP.2013 10:20:38

**Fig.A.3.9 Power Spectral Density (802.11n-HT20, Ch 11)**



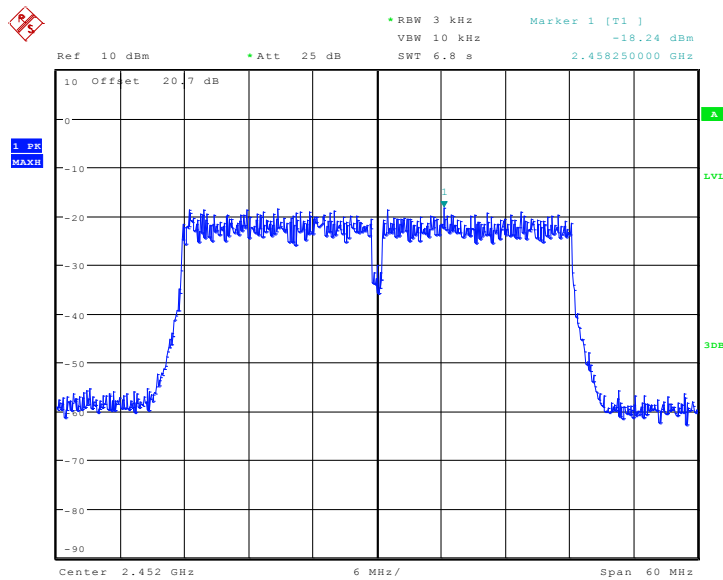
Date: 2.SEP.2013 10:23:58

**Fig.A.3.10 Power Spectral Density (802.11n-HT40, Ch 3)**



Date: 2.SEP.2013 10:24:47

**Fig.A.3.11 Power Spectral Density (802.11n-HT40, Ch 6)**



Date: 2.SEP.2013 10:25:52

**Fig.A.3.12 Power Spectral Density (802.11n-HT40, 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 KDB558074.

**EUT ID: EUT2**

**Modulation type and data rate tested:**

802.11b	802.11g	802.11n-HT20	802.11n-HT40
11Mbps(CCK)	24Mbps(OFDM)	MCS3(OFDM)	MCS3(OFDM)

**Measurement Result:**

**802.11b/g mode**

Mode	Channel	Occupied 6dB Bandwidth ( kHz)		conclusion
802.11b	1	Fig.A.4.1	10192	P
	6	Fig.A.4.2	10096	P
	11	Fig.A.4.3	10000	P
802.11g	1	Fig.A.4.4	16538	P
	6	Fig.A.4.5	16442	P
	11	Fig.A.4.6	16346	P

**802.11n-HT20 mode**

Mode	Channel	Occupied 6dB Bandwidth ( kHz)		conclusion
802.11n (HT20)	1	Fig.A.4.7	17404	P
	6	Fig.A.4.8	17692	P
	11	Fig.A.4.9	17596	P

**802.11n-HT40 mode**

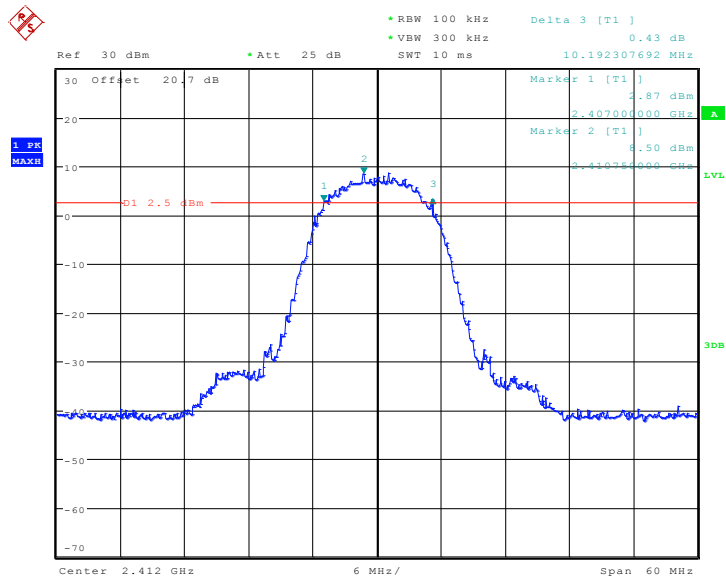
Mode	Channel	Occupied 6dB Bandwidth ( kHz)		conclusion
802.11n (HT40)	3	Fig.A.4.10	36538	P
	6	Fig.A.4.11	36538	P
	9	Fig.A.4.12	36538	P

**Conclusion: Pass**

**Measurement Uncertainty:**

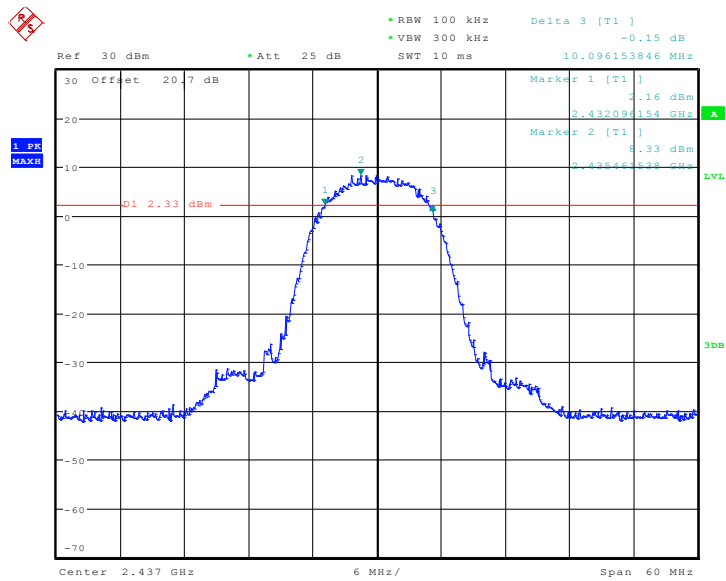
Measurement Uncertainty	60.80Hz
-------------------------	---------

**Test graphs as below:**



Date: 2.SEP.2013 10:29:44

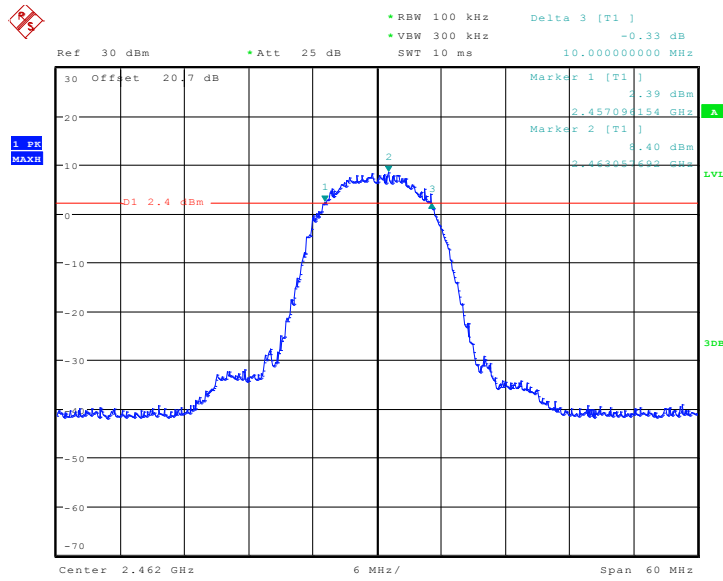
**Fig.A.4.1 Occupied 6dB Bandwidth (802.11b, Ch 1)**



Date: 2.SEP.2013 10:31:41

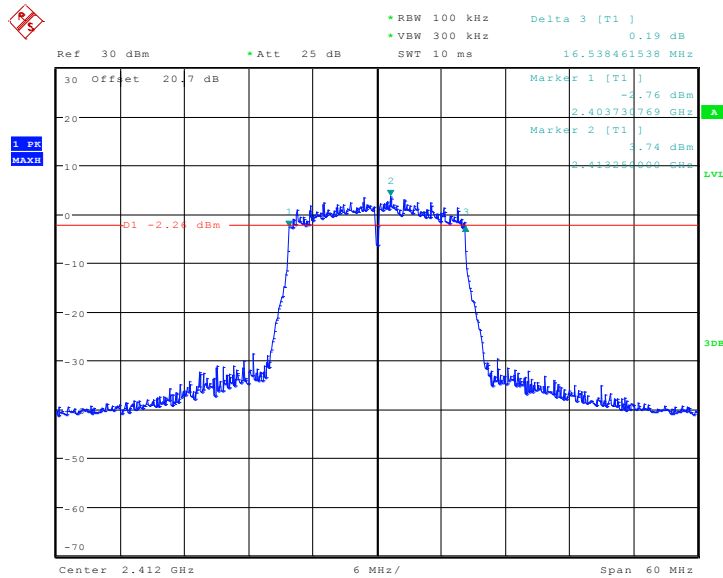
**Fig.A.4.2 Occupied 6dB Bandwidth (802.11b, Ch 6)**





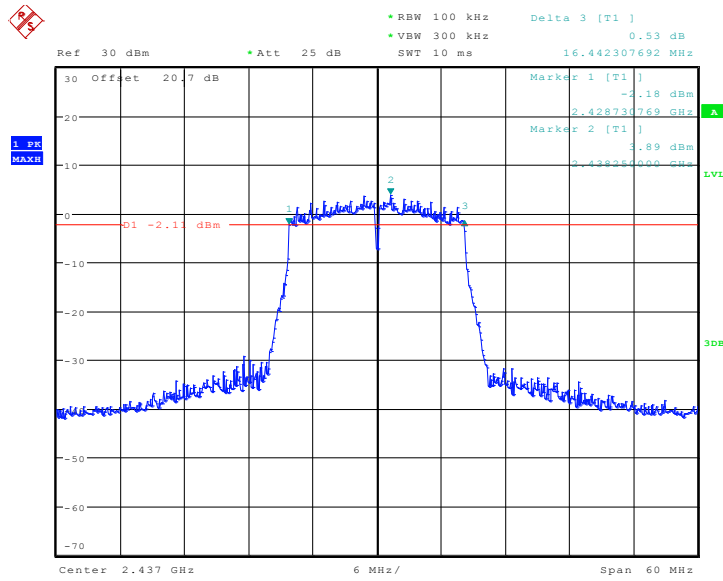
Date: 2.SEP.2013 10:33:05

**Fig.A.4.3 Occupied 6dB Bandwidth (802.11b, Ch 11)**



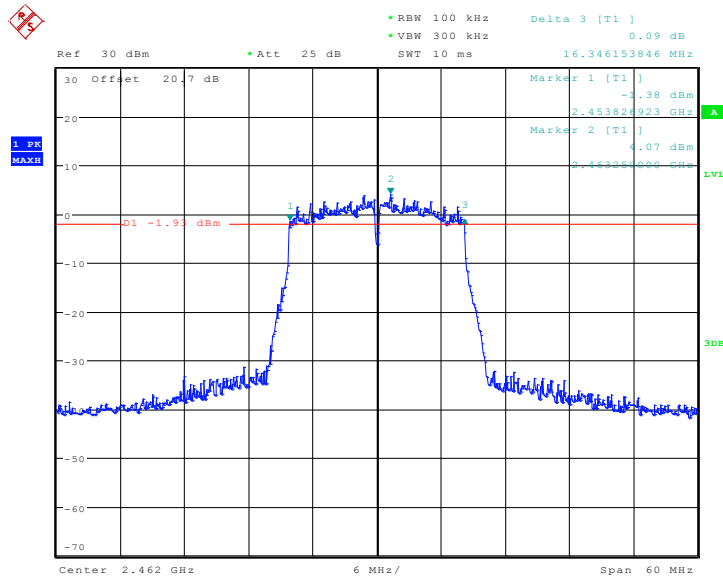
Date: 2.SEP.2013 10:36:44

**Fig.A.4.4 Occupied 6dB Bandwidth (802.11g, Ch 1)**



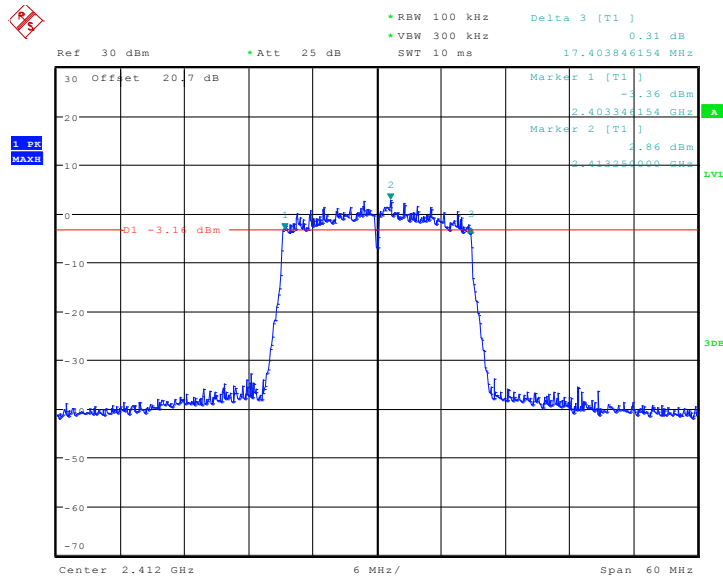
Date: 2.SEP.2013 10:37:52

**Fig.A.4.5 Occupied 6dB Bandwidth (802.11g, Ch 6)**



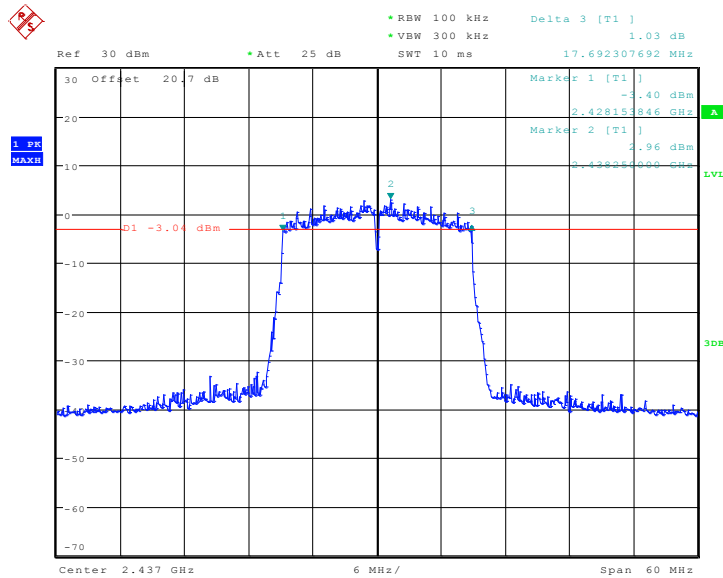
Date: 2.SEP.2013 10:39:02

**Fig.A.4.6 Occupied 6dB Bandwidth (802.11g, Ch 11)**



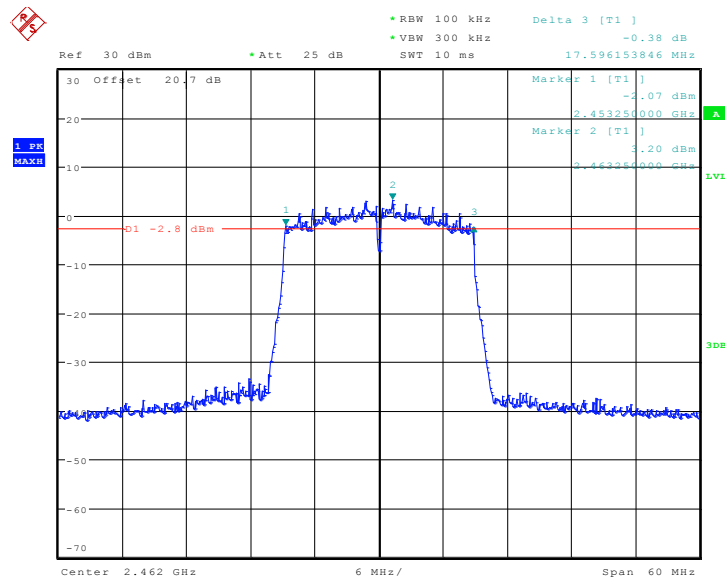
Date: 2.SEP.2013 10:40:31

**Fig.A.4.7 Occupied 6dB Bandwidth (802.11n-20MHz, Ch 1)**



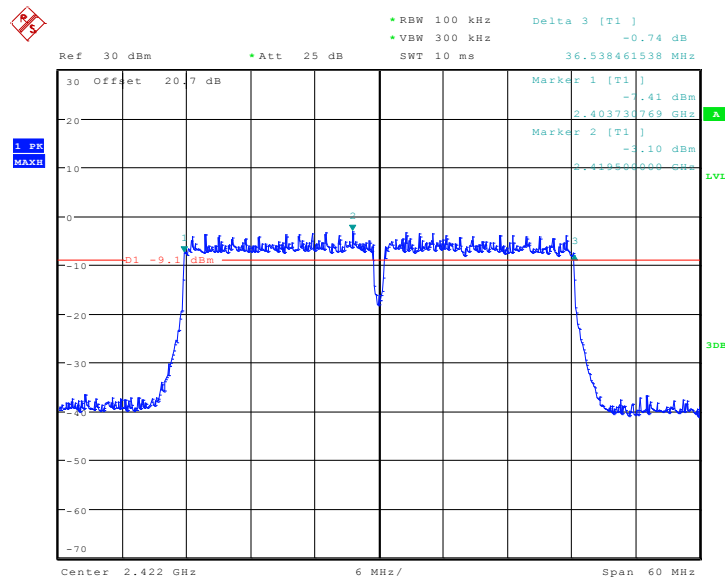
Date: 2.SEP.2013 10:42:26

**Fig.A.4.8 Occupied 6dB Bandwidth (802.11n-HT20, Ch 6)**



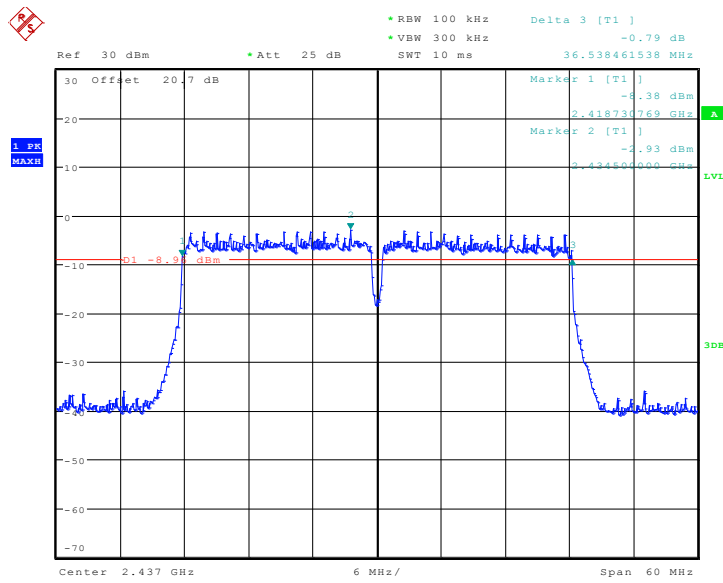
Date: 2.SEP.2013 10:43:37

**Fig.A.4.9 Occupied 6dB Bandwidth (802.11n-HT20, Ch 11)**



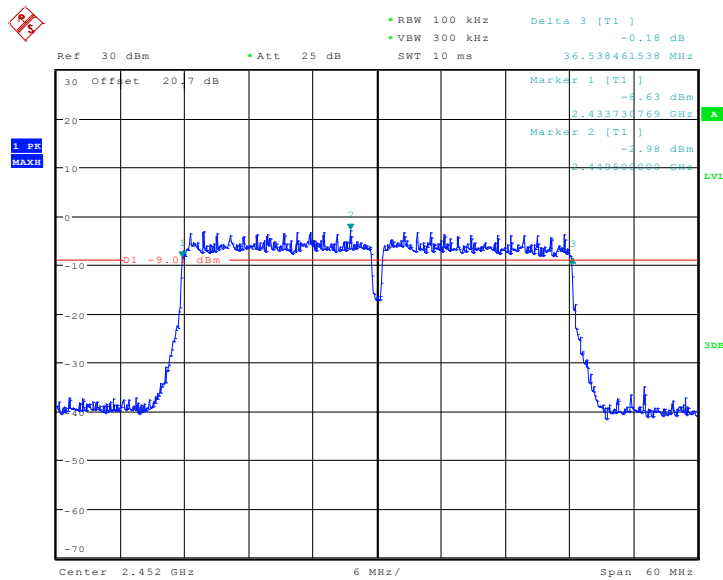
Date: 2.SEP.2013 10:45:52

**Fig.A.4.10 Occupied 6dB Bandwidth (802.11n-40MHz, Ch 3)**



Date: 2.SEP.2013 10:46:55

**Fig.A.4.11 Occupied 6dB Bandwidth (802.11n-HT40, Ch 6)**



Date: 2.SEP.2013 10:47:47

**Fig.A.4.12 Occupied 6dB Bandwidth (802.11n-HT40, 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 KDB558074.

**EUT ID: EUT2**

**Modulation type and data rate tested:**

802.11b	802.11g	802.11n-HT20	802.11n-HT40
11Mbps(CCK)	24Mbps(OFDM)	MCS3(OFDM)	MCS3(OFDM)

**Measurement Result:**

**802.11b/g mode**

Mode	Channel	Test Results	Conclusion
802.11b	1	Fig.A.5.1	<b>P</b>
	11	Fig.A.5.2	<b>P</b>
802.11g	1	Fig.A.5.3	<b>P</b>
	11	Fig.A.5.4	<b>P</b>

**802.11n-HT20 mode**

Mode	Channel	Test Results	Conclusion
802.11n (HT20)	1	Fig.A.5.5	<b>P</b>
	11	Fig.A.5.6	<b>P</b>

**802.11n-HT40 mode**

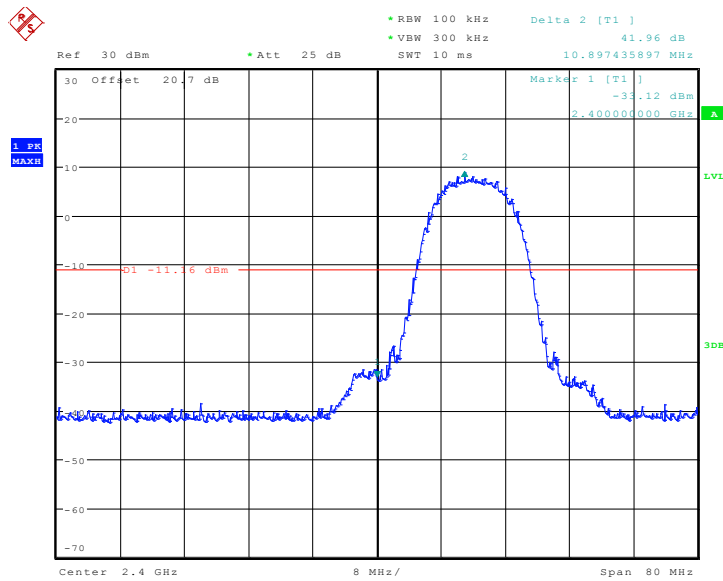
Mode	Channel	Test Results	Conclusion
802.11n (HT40)	3	Fig.A.5.7	<b>P</b>
	9	Fig.A.5.8	<b>P</b>

**Conclusion: Pass**

**Measurement Uncertainty:**

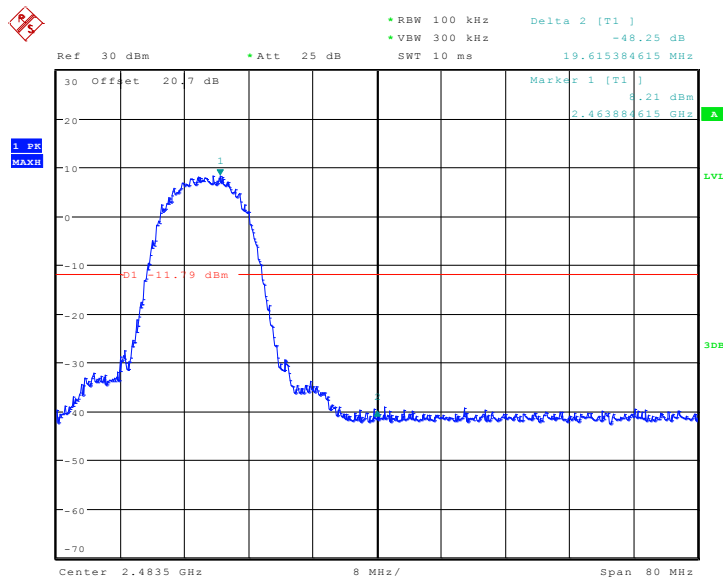
Measurement Uncertainty	0.75dB
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**Test graphs as below:**



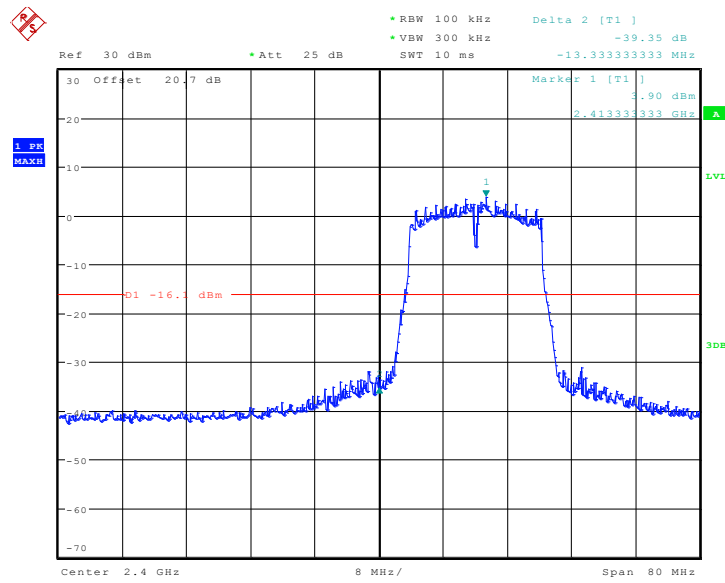
Date: 2.SEP.2013 10:49:32

**Fig.A.5.1 Band Edges (802.11b, Ch 1)**



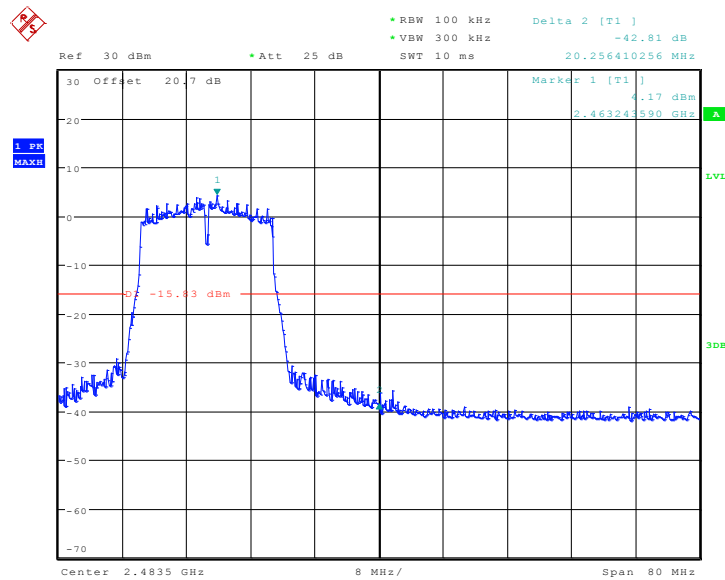
Date: 2.SEP.2013 10:50:38

**Fig.A.5.2 Band Edges (802.11b, Ch 11)**



Date: 2.SEP.2013 10:52:23

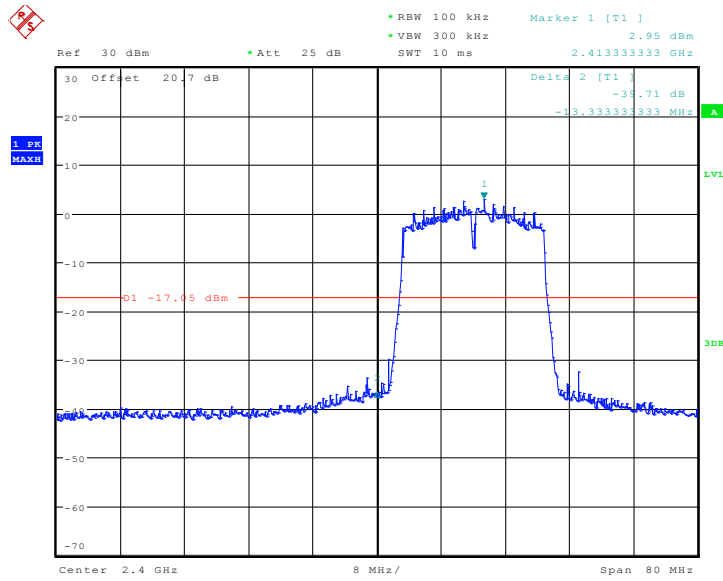
**Fig.A.5.3 Band Edges (802.11g, Ch 1)**



Date: 2.SEP.2013 10:51:38

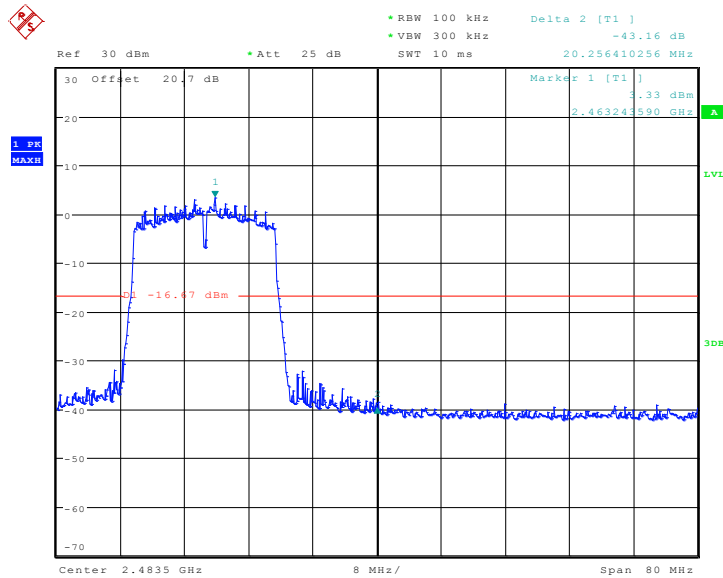
**Fig.A.5.4 Band Edges (802.11g, Ch 11)**





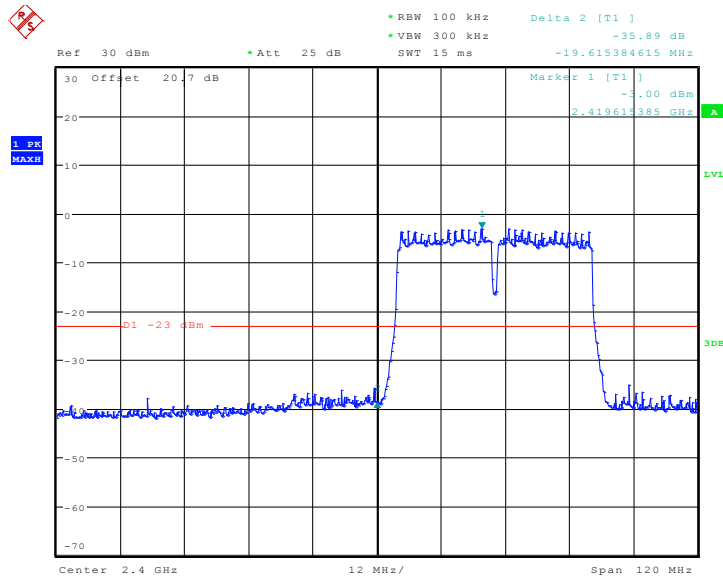
Date: 2.SEP.2013 10:53:18

**Fig.A.5.5 Band Edges (802.11n-HT20, Ch 1)**



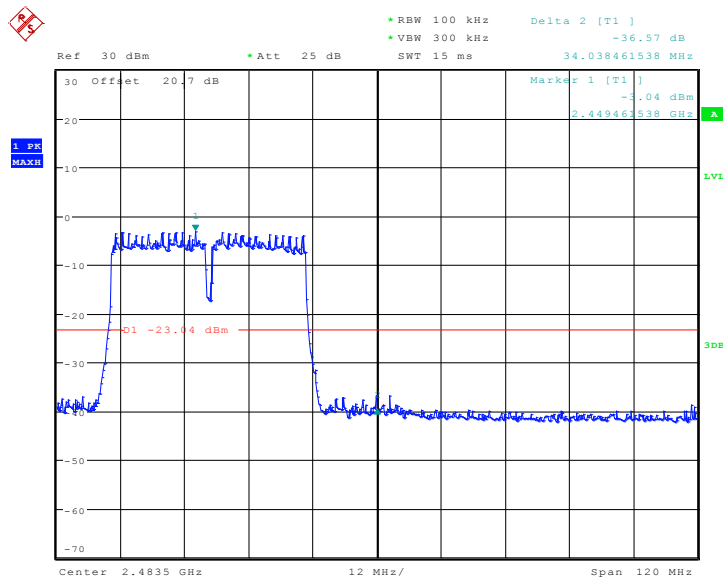
Date: 2.SEP.2013 10:54:04

**Fig.A.5.6 Band Edges (802.11n-HT20, Ch 11)**



Date: 2.SEP.2013 10:55:27

**Fig.A.5.7 Band Edges (802.11n-HT40, Ch 3)**



Date: 2.SEP.2013 10:56:07

**Fig.A.5.8 Band Edges (802.11n-HT40, 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 KDB558074.

#### EUT ID: EUT2

#### Modulation type and data rate tested:

802.11b	802.11g	802.11n-HT20	802.11n-HT40
11Mbps(CCK)	24Mbps(OFDM)	MCS3(OFDM)	MCS3(OFDM)

#### Measurement Results:

##### 802.11b mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11b	1	2.412 GHz	Fig.A.6.1.1	P
		30 MHz ~ 1 GHz	Fig.A.6.1.2	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.3	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.4	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.5	P
		10 GHz ~ 15 GHz	Fig.A.6.1.6	P
		15 GHz ~ 20 GHz	Fig.A.6.1.7	P
		20 GHz ~ 26 GHz	Fig.A.6.1.8	P
	6	2.437 GHz	Fig.A.6.1.9	P
		30 MHz ~ 1 GHz	Fig.A.6.1.10	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.11	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.12	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.13	P
		10 GHz ~ 15 GHz	Fig.A.6.1.14	P
		15 GHz ~ 20 GHz	Fig.A.6.1.15	P
		20 GHz ~ 26 GHz	Fig.A.6.1.16	P
	11	2.462 GHz	Fig.A.6.1.17	P
		30 MHz ~ 1 GHz	Fig.A.6.1.18	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.19	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.20	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.21	P
		10 GHz ~ 15 GHz	Fig.A.6.1.22	P
		15 GHz ~ 20 GHz	Fig.A.6.1.23	P
		20 GHz ~ 26 GHz	Fig.A.6.1.24	P

**802.11g mode**

<b>MODE</b>	<b>Channel</b>	<b>Frequency Range</b>	<b>Test Results</b>	<b>Conclusion</b>
802.11g	1	2.412 GHz	Fig.A.6.1.25	<b>P</b>
		30 MHz ~ 1 GHz	Fig.A.6.1.26	<b>P</b>
		1 GHz ~ 2.5 GHz	Fig.A.6.1.27	<b>P</b>
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.28	<b>P</b>
		7.5 GHz ~ 10 GHz	Fig.A.6.1.29	<b>P</b>
		10 GHz ~ 15 GHz	Fig.A.6.1.30	<b>P</b>
		15 GHz ~ 20 GHz	Fig.A.6.1.31	<b>P</b>
		20 GHz ~ 26 GHz	Fig.A.6.1.32	<b>P</b>
	6	2.437 GHz	Fig.A.6.1.33	<b>P</b>
		30 MHz ~ 1 GHz	Fig.A.6.1.34	<b>P</b>
		1 GHz ~ 2.5 GHz	Fig.A.6.1.35	<b>P</b>
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.36	<b>P</b>
		7.5 GHz ~ 10 GHz	Fig.A.6.1.37	<b>P</b>
		10 GHz ~ 15 GHz	Fig.A.6.1.38	<b>P</b>
		15 GHz ~ 20 GHz	Fig.A.6.1.39	<b>P</b>
		20 GHz ~ 26 GHz	Fig.A.6.1.40	<b>P</b>
	11	2.462 GHz	Fig.A.6.1.41	<b>P</b>
		30 MHz ~ 1 GHz	Fig.A.6.1.42	<b>P</b>
		1 GHz ~ 2.5 GHz	Fig.A.6.1.43	<b>P</b>
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.44	<b>P</b>
		7.5 GHz ~ 10 GHz	Fig.A.6.1.45	<b>P</b>
		10 GHz ~ 15 GHz	Fig.A.6.1.46	<b>P</b>
		15 GHz ~ 20 GHz	Fig.A.6.1.47	<b>P</b>
		20 GHz ~ 26 GHz	Fig.A.6.1.48	<b>P</b>

802.11n-HT20 mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT20)	1	2.412 GHz	Fig.A.6.1.49	P
		30 MHz ~ 1 GHz	Fig.A.6.1.50	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.51	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.52	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.53	P
		10 GHz ~ 15 GHz	Fig.A.6.1.54	P
		15 GHz ~ 20 GHz	Fig.A.6.1.55	P
		20 GHz ~ 26 GHz	Fig.A.6.1.56	P
	6	2.437 GHz	Fig.A.6.1.57	P
		30 MHz ~ 1 GHz	Fig.A.6.1.58	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.59	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.60	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.61	P
		10 GHz ~ 15 GHz	Fig.A.6.1.62	P
		15 GHz ~ 20 GHz	Fig.A.6.1.63	P
		20 GHz ~ 26 GHz	Fig.A.6.1.64	P
	11	2.462 GHz	Fig.A.6.1.65	P
		30 MHz ~ 1 GHz	Fig.A.6.1.66	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.67	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.68	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.69	P
		10 GHz ~ 15 GHz	Fig.A.6.1.70	P
		15 GHz ~ 20 GHz	Fig.A.6.1.71	P
		20 GHz ~ 26 GHz	Fig.A.6.1.72	P

**802.11n-HT40 mode**

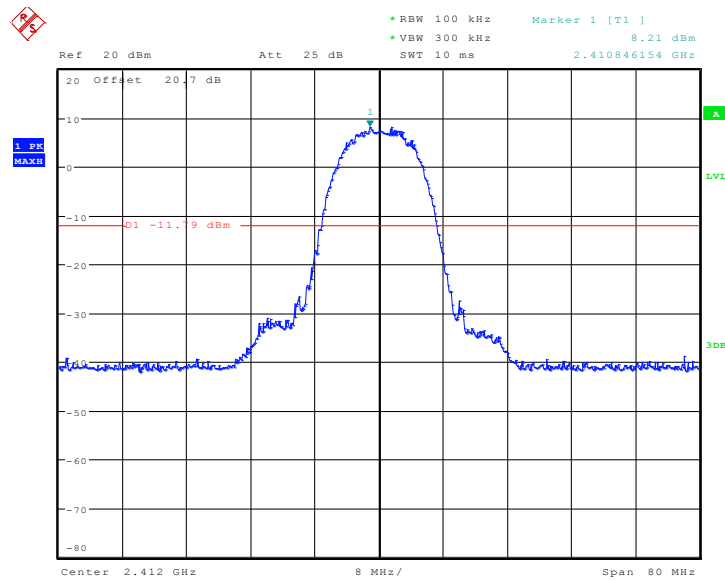
MODE	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT40)	3	2.422 GHz	Fig.A.6.1.73	P
		30 MHz ~ 1 GHz	Fig.A.6.1.74	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.75	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.76	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.77	P
		10 GHz ~ 15 GHz	Fig.A.6.1.78	P
		15 GHz ~ 20 GHz	Fig.A.6.1.79	P
		20 GHz ~ 26 GHz	Fig.A.6.1.80	P
	6	2.437 GHz	Fig.A.6.1.81	P
		30 MHz ~ 1 GHz	Fig.A.6.1.82	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.83	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.84	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.85	P
		10 GHz ~ 15 GHz	Fig.A.6.1.86	P
		15 GHz ~ 20 GHz	Fig.A.6.1.87	P
		20 GHz ~ 26 GHz	Fig.A.6.1.88	P
	9	2.452 GHz	Fig.A.6.1.89	P
		30 MHz ~ 1 GHz	Fig.A.6.1.90	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.91	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.92	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.93	P
		10 GHz ~ 15 GHz	Fig.A.6.1.94	P
		15 GHz ~ 20 GHz	Fig.A.6.1.95	P
		20 GHz ~ 26 GHz	Fig.A.6.1.96	P

**Conclusion: Pass**

**Measurement Uncertainty:**

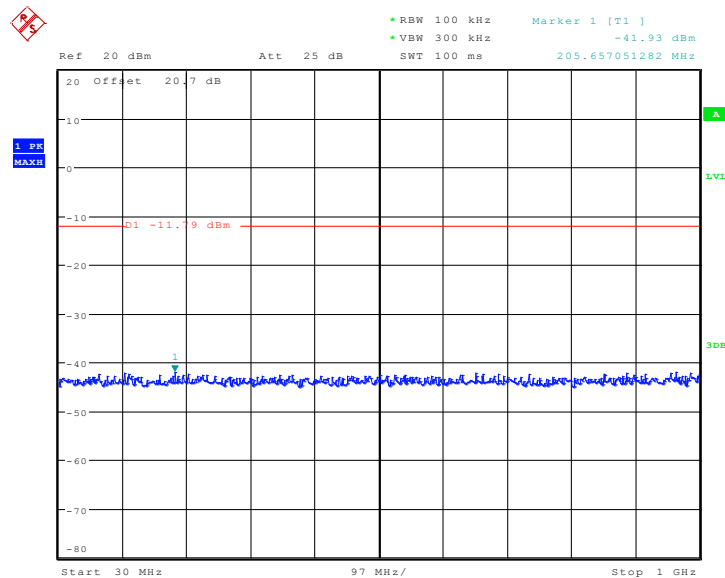
Frequency Range	Uncertainty(dB)
30MHz ≤ f ≤ 2GHz	0.63
2GHz ≤ f ≤ 3.6GHz	0.82
3.6GHz ≤ f ≤ 8GHz	1.55
8GHz ≤ f ≤ 20GHz	1.86
20GHz ≤ f ≤ 22GHz	1.90
22GHz ≤ f ≤ 26GHz	2.20

**Test graphs as below:**



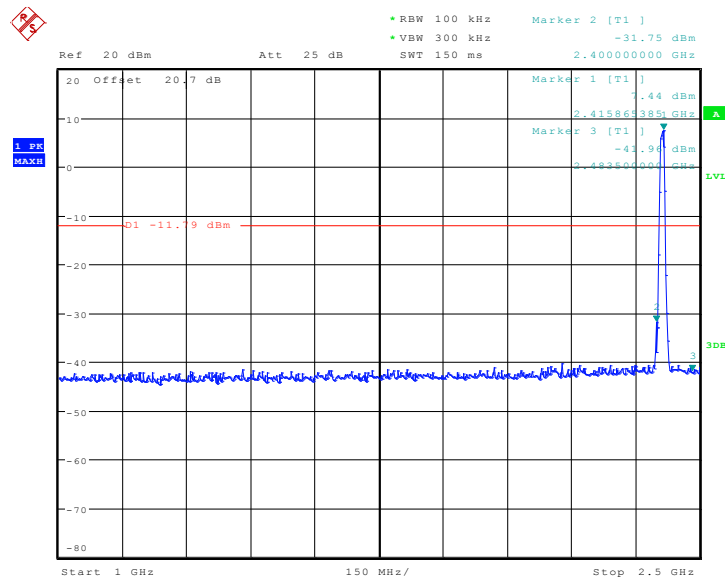
Date: 1.SEP.2013 17:40:08

**Fig.A.6.1.1 Conducted Spurious Emission (802.11b, Ch1, Center Frequency)**



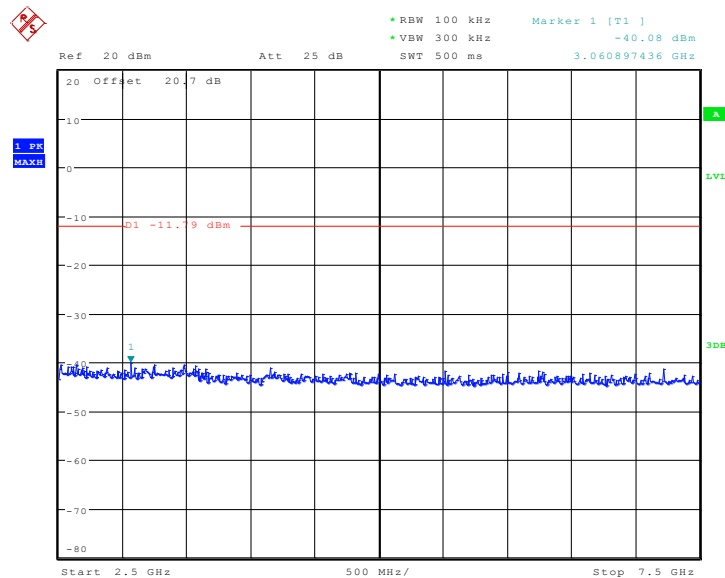
Date: 1.SEP.2013 17:40:32

**Fig.A.6.1.2 Conducted Spurious Emission (802.11b, Ch1, 30 MHz-1 GHz)**



Date: 1.SEP.2013 17:41:07

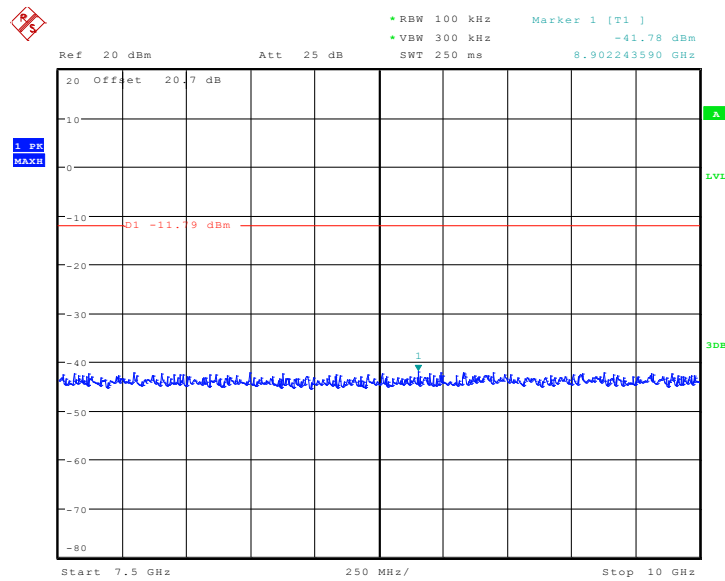
**Fig.A.6.1.3 Conducted Spurious Emission (802.11b, Ch1, 1 GHz-2.5 GHz)**



Date: 1.SEP.2013 17:41:40

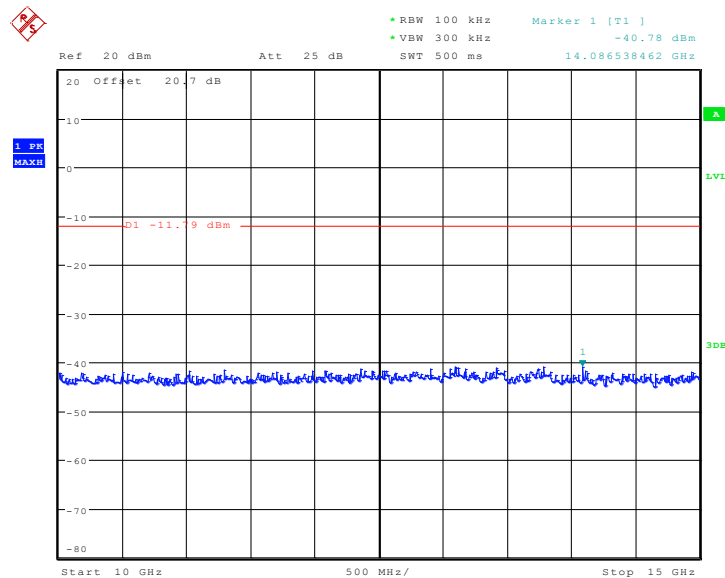
**Fig.A.6.1.4 Conducted Spurious Emission (802.11b, Ch1, 2.5 GHz-7.5 GHz)**





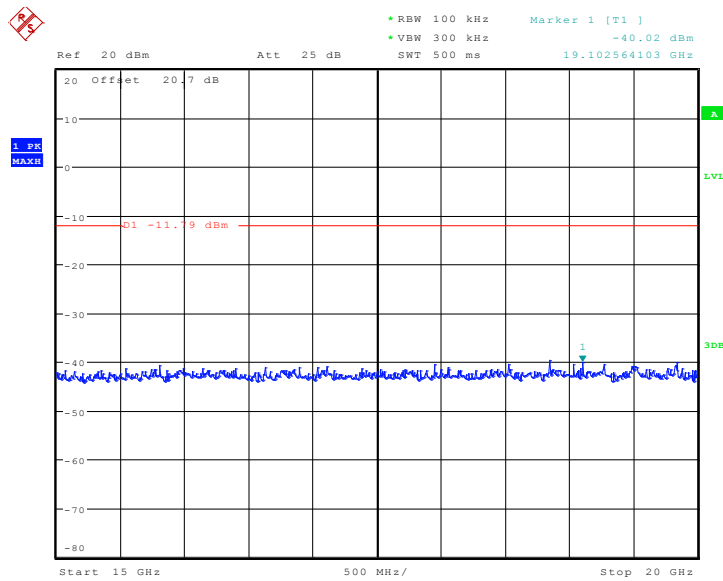
Date: 1.SEP.2013 17:41:59

**Fig.A.6.1.5 Conducted Spurious Emission (802.11b, Ch1, 7.5 GHz-10 GHz)**



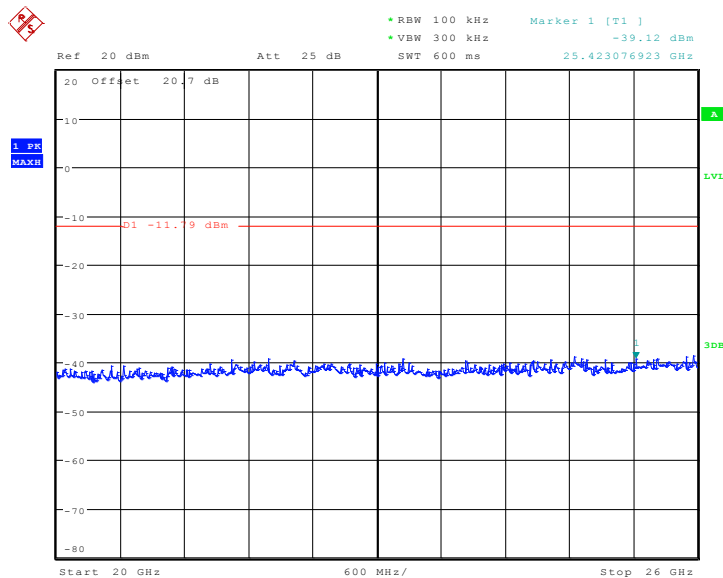
Date: 1.SEP.2013 17:42:14

**Fig.A.6.1.6 Conducted Spurious Emission (802.11b, Ch1, 10 GHz-15 GHz)**



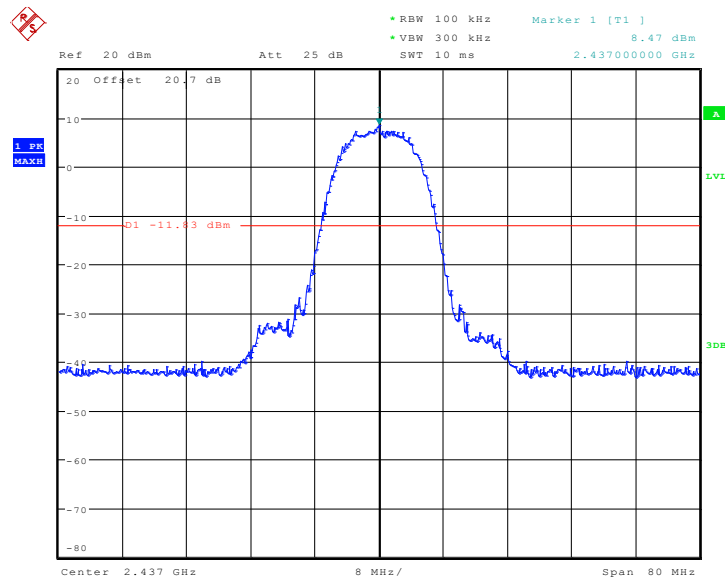
Date: 1.SEP.2013 17:42:34

**Fig.A.6.1.7 Conducted Spurious Emission (802.11b, Ch1, 15 GHz-20 GHz)**



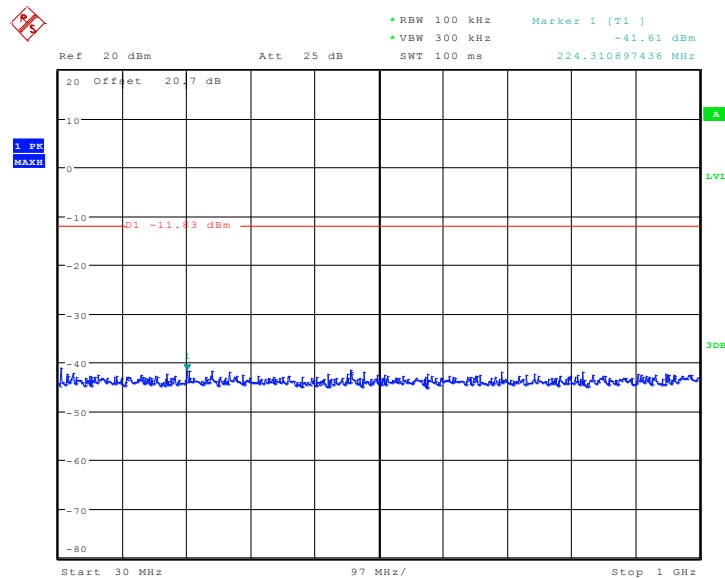
Date: 1.SEP.2013 17:42:58

**Fig.A.6.1.8 Conducted Spurious Emission (802.11b, Ch1, 20 GHz-26 GHz)**



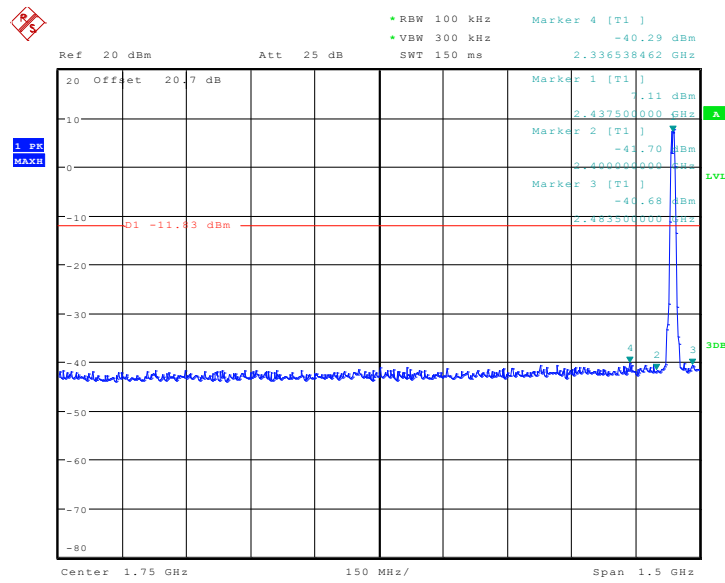
Date: 1.SEP.2013 17:46:38

**Fig.A.6.1.9 Conducted Spurious Emission (802.11b, Ch6, Center Frequency)**



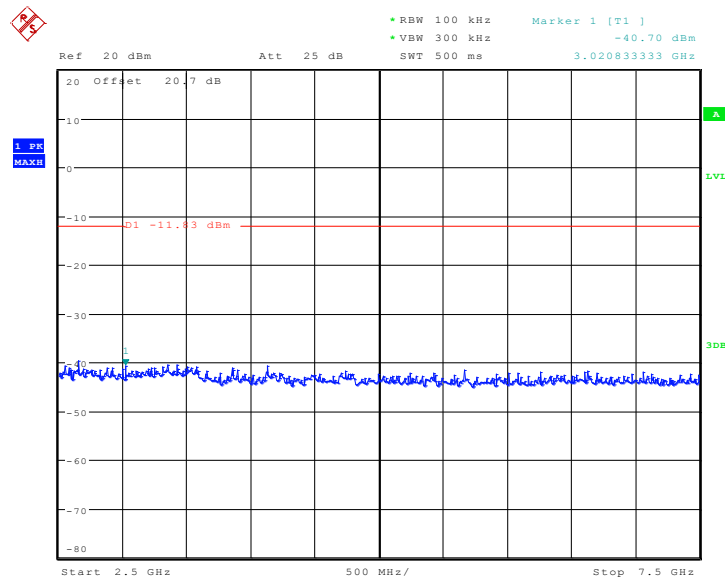
Date: 1.SEP.2013 17:46:56

**Fig.A.6.1.10 Conducted Spurious Emission (802.11b, Ch6, 30 MHz-1 GHz)**



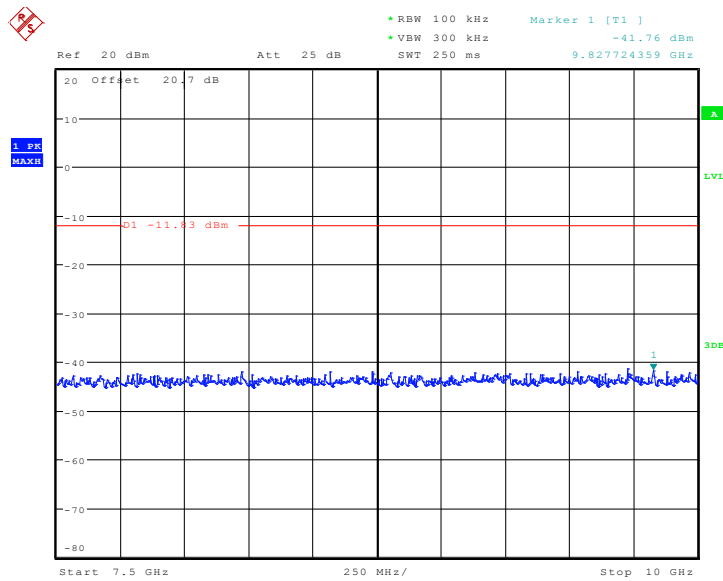
Date: 1.SEP.2013 17:47:42

**Fig.A.6.1.11 Conducted Spurious Emission (802.11b, Ch6, 1 GHz-2.5 GHz)**



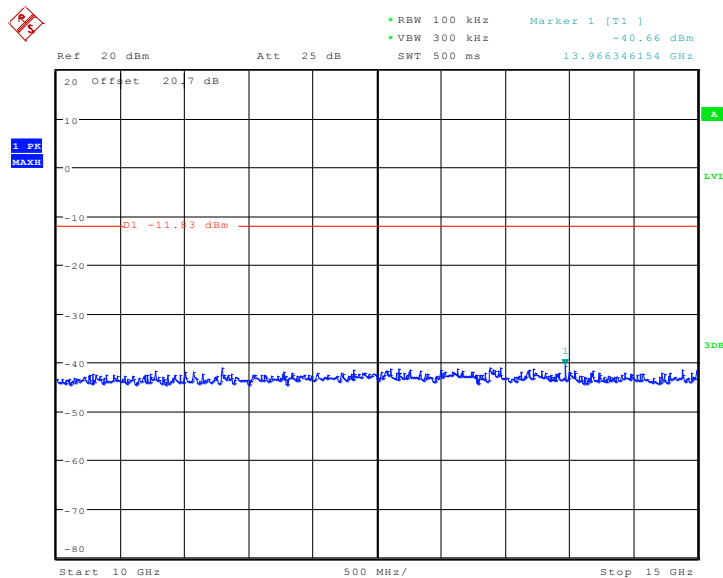
Date: 1.SEP.2013 17:48:06

**Fig.A.6.1.12 Conducted Spurious Emission (802.11b, Ch6, 2.5 GHz-7.5 GHz)**



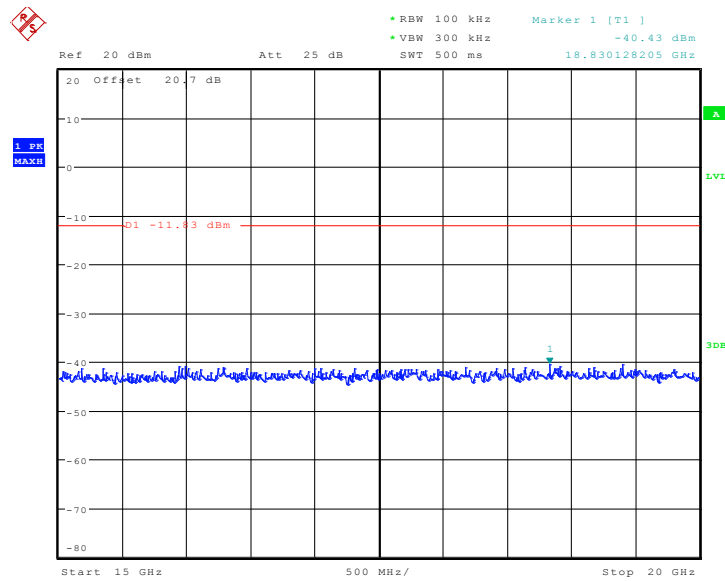
Date: 1.SEP.2013 17:48:24

**Fig.A.6.1.13 Conducted Spurious Emission (802.11b, Ch6, 7.5 GHz-10 GHz)**



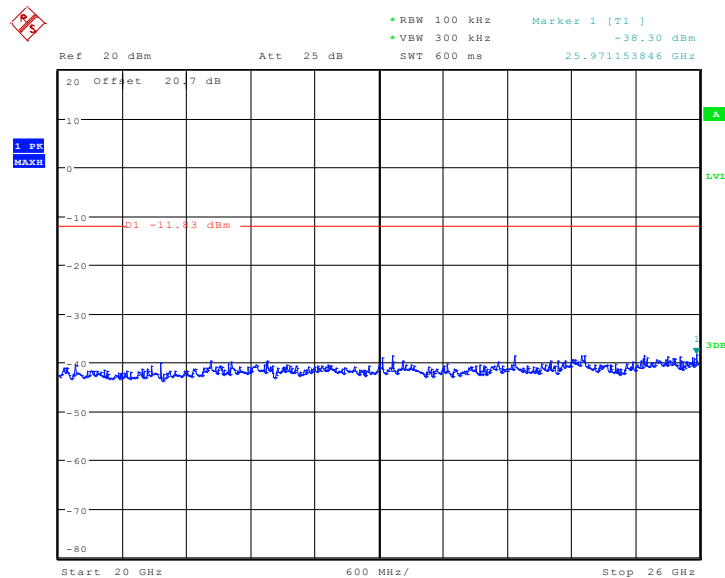
Date: 1.SEP.2013 17:48:40

**Fig.A.6.1.14 Conducted Spurious Emission (802.11b, Ch6, 10 GHz-15 GHz)**



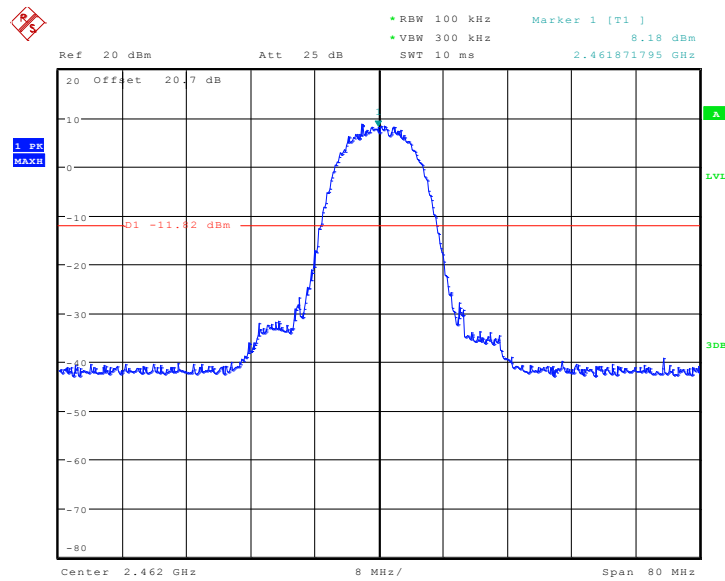
Date: 1.SEP.2013 17:48:57

**Fig.A.6.1.15 Conducted Spurious Emission (802.11b, Ch6, 15 GHz-20 GHz)**



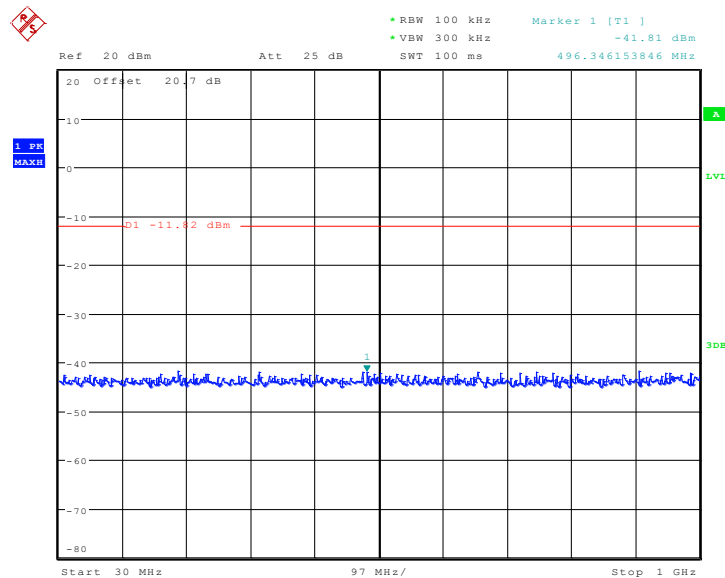
Date: 1.SEP.2013 17:49:19

**Fig.A.6.1.16 Conducted Spurious Emission (802.11b, Ch6, 20 GHz-26 GHz)**



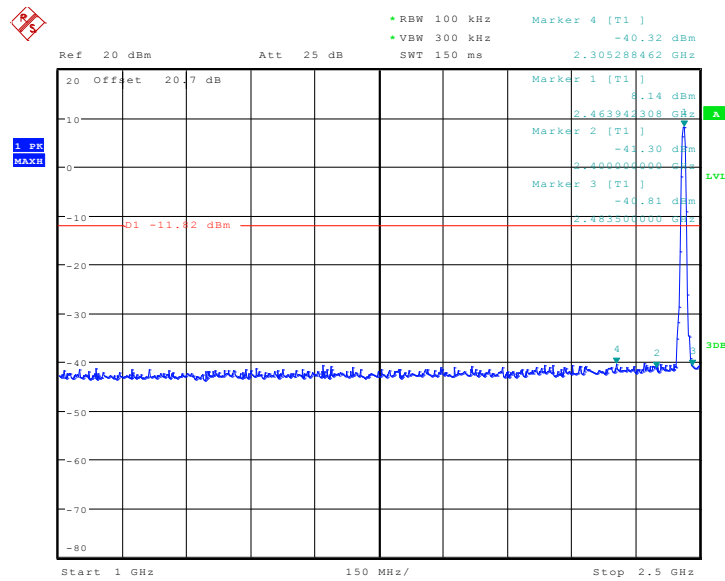
Date: 1.SEP.2013 17:50:40

**Fig.A.6.1.17 Conducted Spurious Emission (802.11b, Ch11, Center Frequency)**



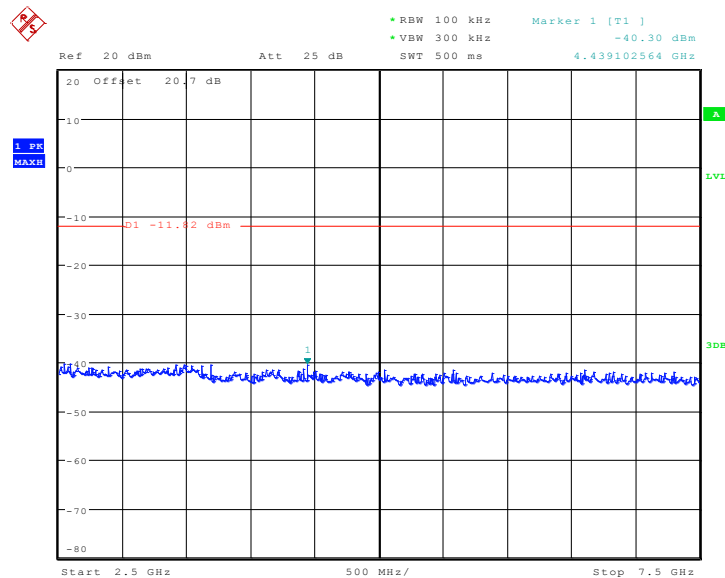
Date: 1.SEP.2013 17:51:02

**Fig.A.6.1.18 Conducted Spurious Emission (802.11b, Ch11, 30 MHz-1 GHz)**



Date: 1.SEP.2013 17:52:15

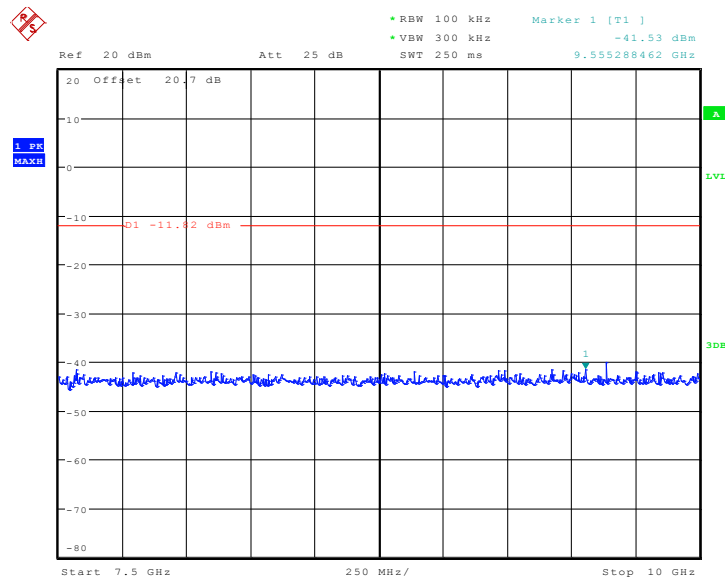
**Fig.A.6.1.19 Conducted Spurious Emission (802.11b, Ch11, 1 GHz-2.5 GHz)**



Date: 1.SEP.2013 17:52:46

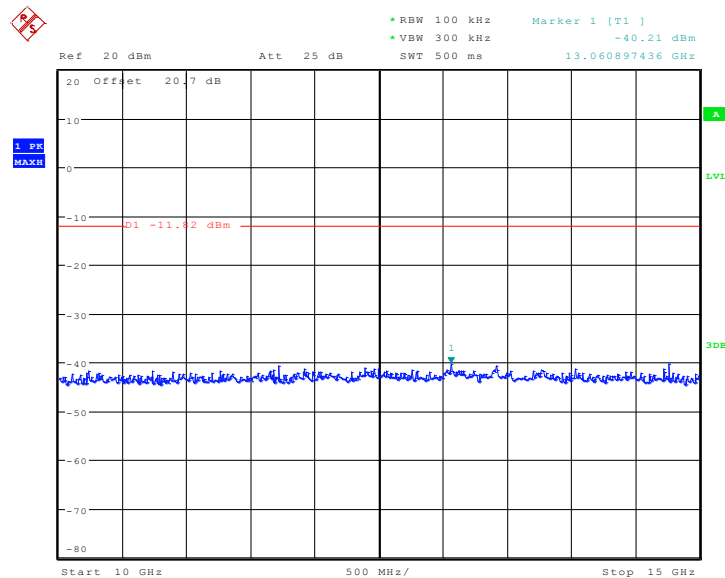
**Fig.A.6.1.20 Conducted Spurious Emission (802.11b, Ch11, 2.5 GHz-7.5 GHz)**





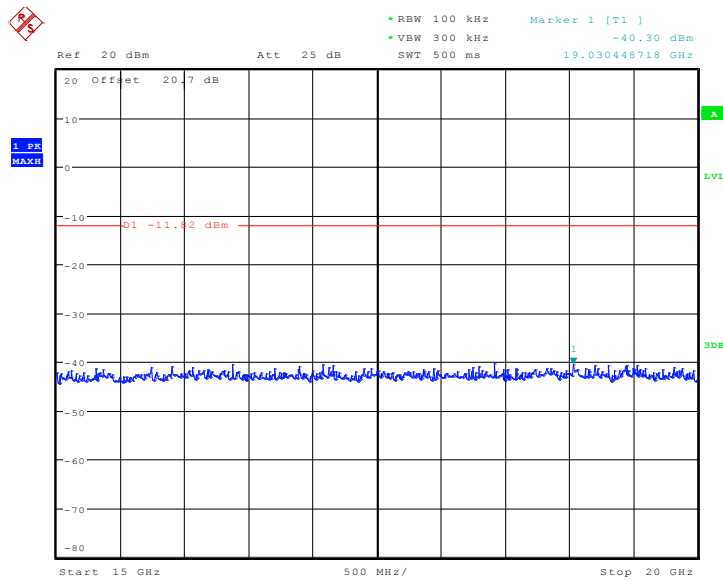
Date: 1.SEP.2013 17:53:06

**Fig.A.6.1.21 Conducted Spurious Emission (802.11b, Ch11, 7.5 GHz-10 GHz)**



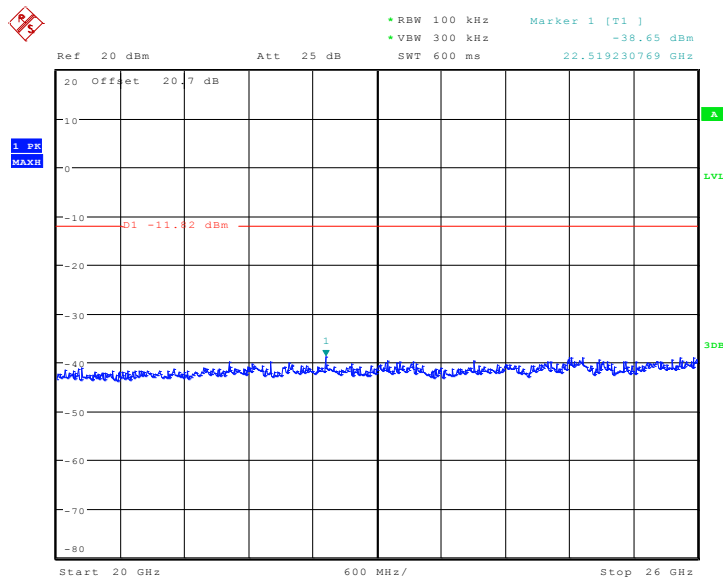
Date: 1.SEP.2013 17:53:25

**Fig.A.6.1.22 Conducted Spurious Emission (802.11b, Ch11, 10 GHz-15 GHz)**



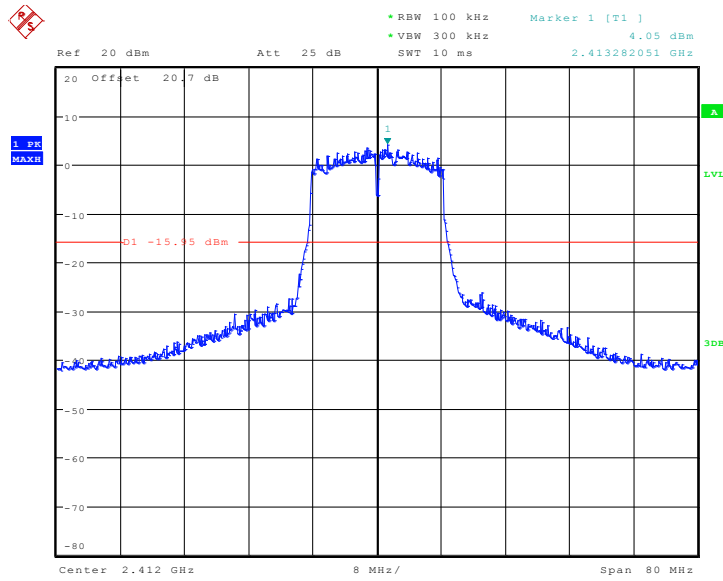
Date: 1.SEP.2013 17:53:43

**Fig.A.6.1.23 Conducted Spurious Emission (802.11b, Ch11, 15 GHz-20 GHz)**



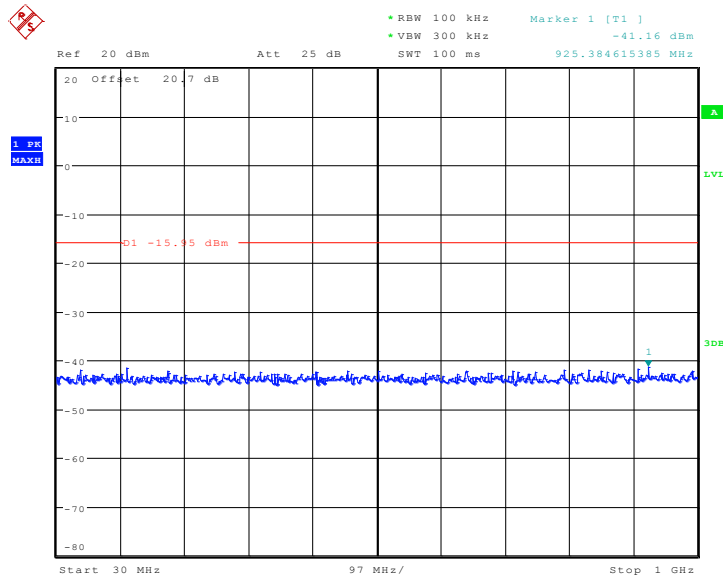
Date: 1.SEP.2013 17:54:23

**Fig.A.6.1.24 Conducted Spurious Emission (802.11b, Ch11, 20 GHz-26 GHz)**



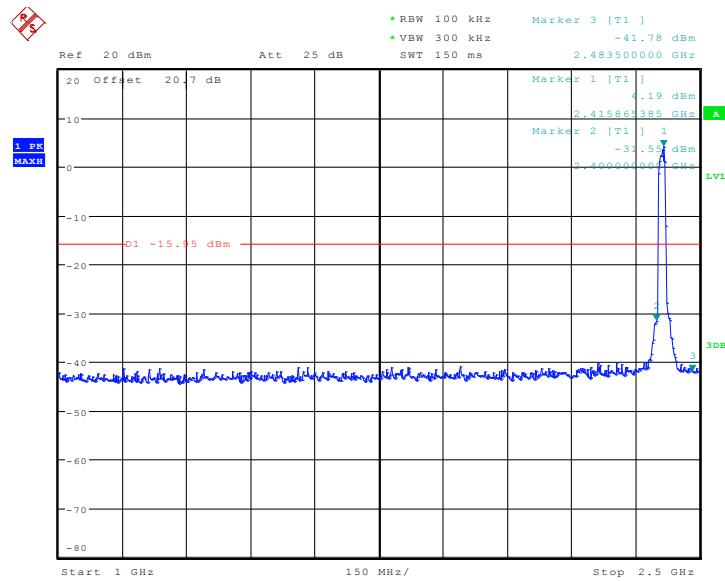
Date: 1.SEP.2013 17:56:18

**Fig.A.6.1.25 Conducted Spurious Emission (802.11g, Ch1, Center Frequency)**



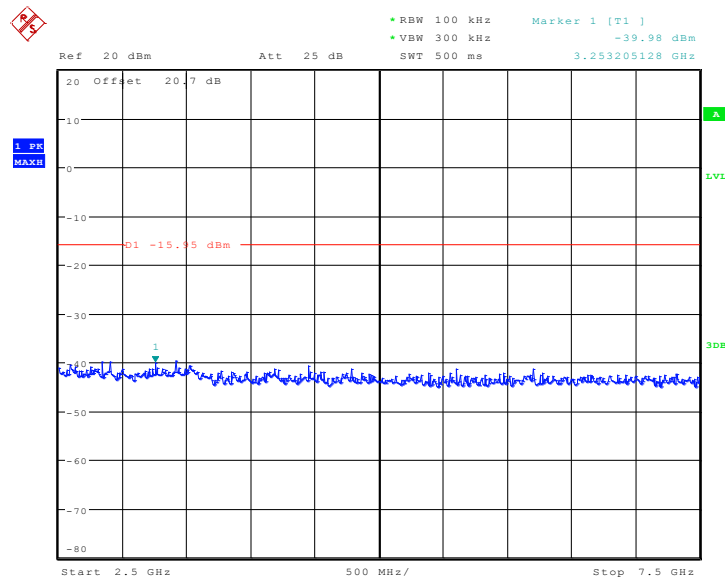
Date: 1.SEP.2013 18:00:48

**Fig.A.6.1.26 Conducted Spurious Emission (802.11g, Ch1, 30 MHz-1 GHz)**



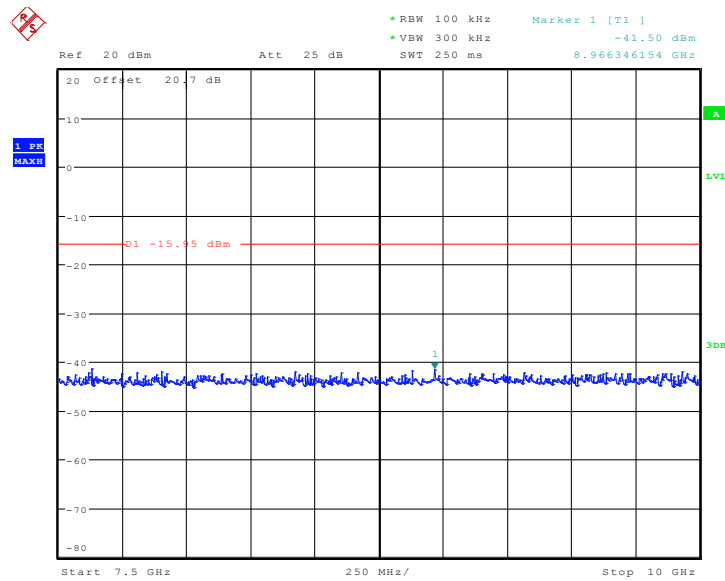
Date: 1.SEP.2013 17:57:03

**Fig.A.6.1.27 Conducted Spurious Emission (802.11g, Ch1, 1 GHz-2.5 GHz)**



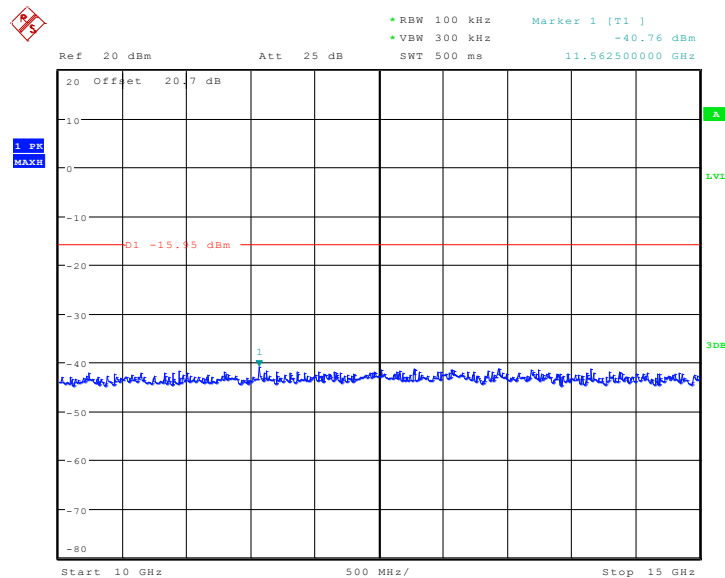
Date: 1.SEP.2013 17:57:25

**Fig.A.6.1.28 Conducted Spurious Emission (802.11g, Ch1, 2.5 GHz-7.5 GHz)**



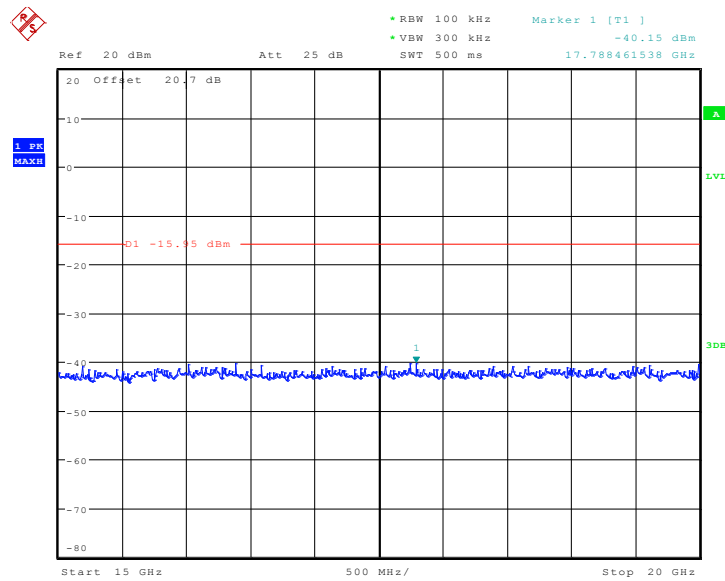
Date: 1.SEP.2013 17:57:45

**Fig.A.6.1.29 Conducted Spurious Emission (802.11g, Ch1, 7.5 GHz-10 GHz)**



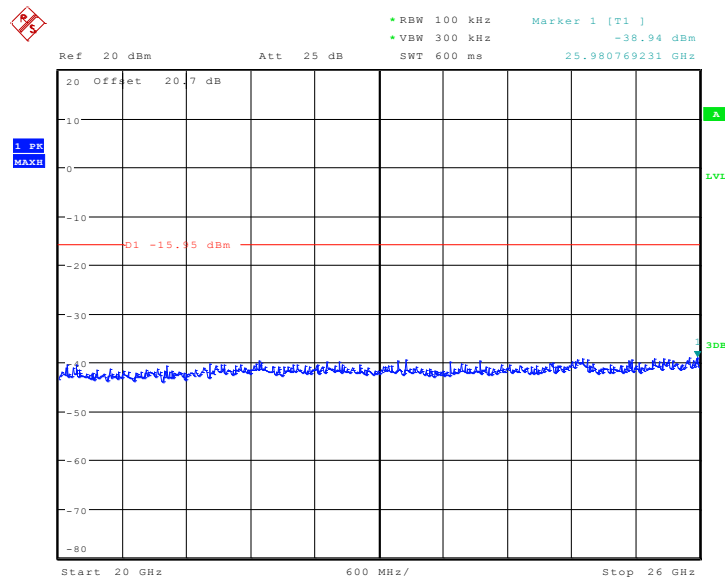
Date: 1.SEP.2013 17:58:00

**Fig.A.6.1.30 Conducted Spurious Emission (802.11g, Ch1, 10 GHz-15 GHz)**



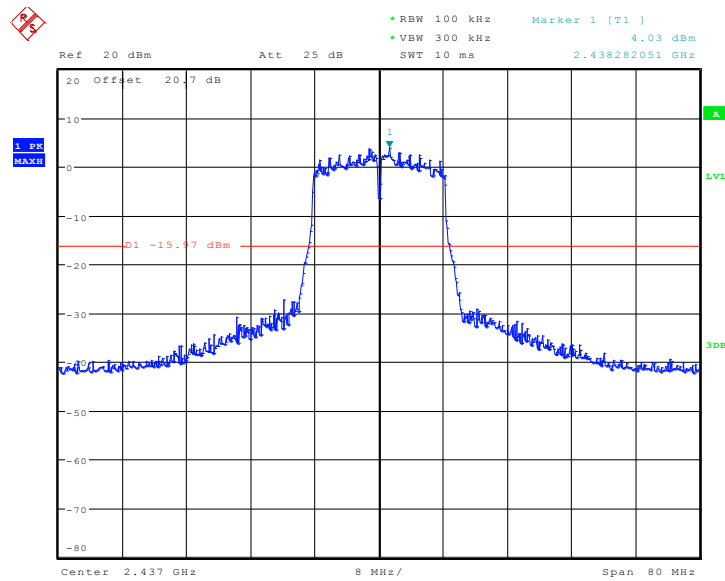
Date: 1.SEP.2013 17:58:27

**Fig.A.6.1.31 Conducted Spurious Emission (802.11g, Ch1, 15 GHz-20 GHz)**



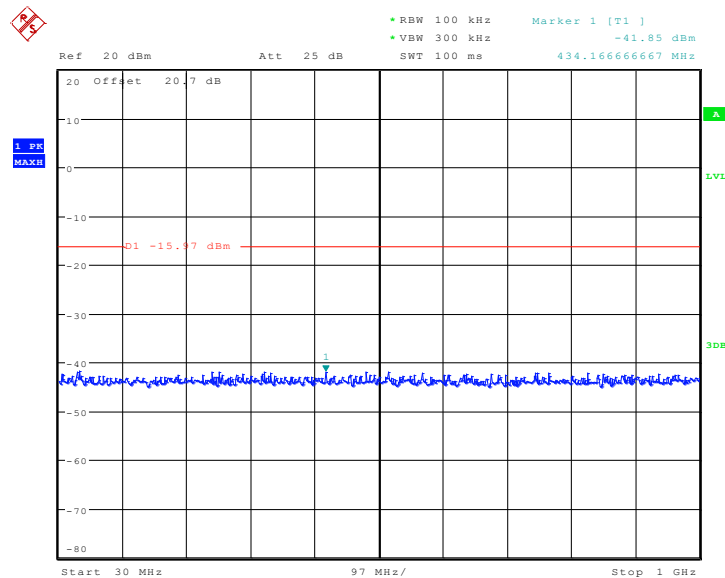
Date: 1.SEP.2013 17:58:45

**Fig.A.6.1.32 Conducted Spurious Emission (802.11g, Ch1, 20 GHz-26 GHz)**



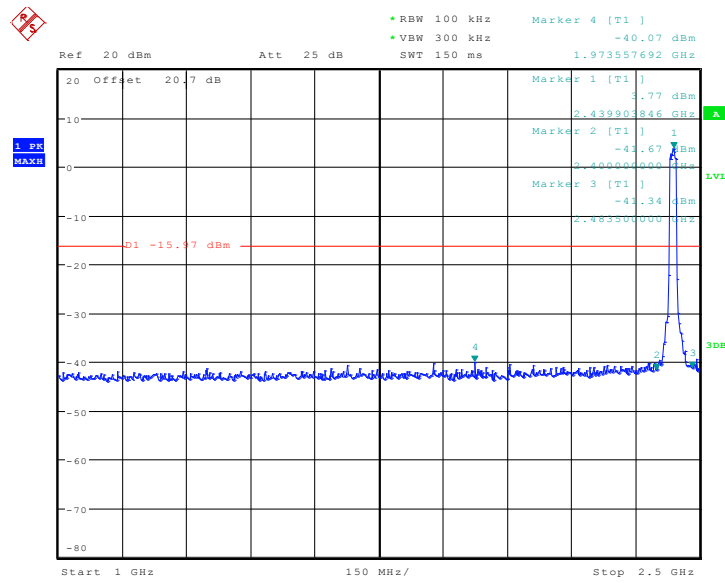
Date: 1.SEP.2013 18:05:41

**Fig.A.6.1.33 Conducted Spurious Emission (802.11g, Ch6, Center Frequency)**



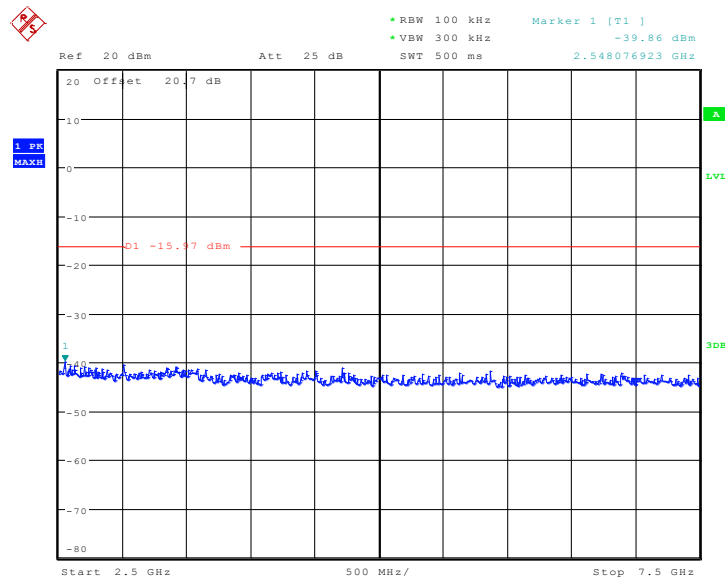
Date: 1.SEP.2013 18:06:57

**Fig.A.6.1.34 Conducted Spurious Emission (802.11g, Ch6, 30 MHz-1 GHz)**



Date: 1.SEP.2013 18:07:43

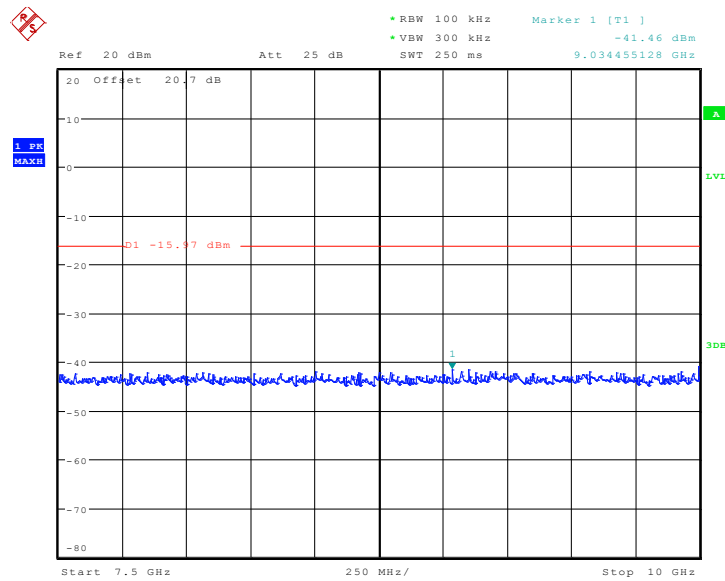
**Fig.A.6.1.35 Conducted Spurious Emission (802.11g, Ch6, 1 GHz-2.5 GHz)**



Date: 1.SEP.2013 18:08:01

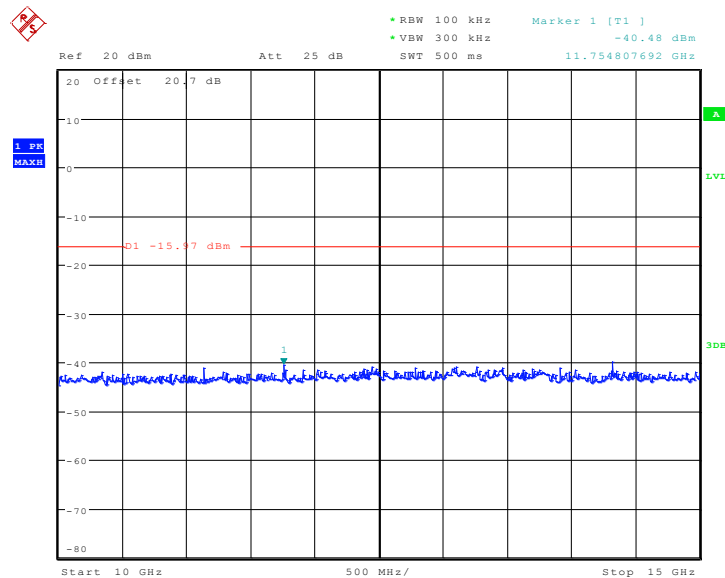
**Fig.A.6.1.36 Conducted Spurious Emission (802.11g, Ch6, 2.5 GHz-7.5 GHz)**





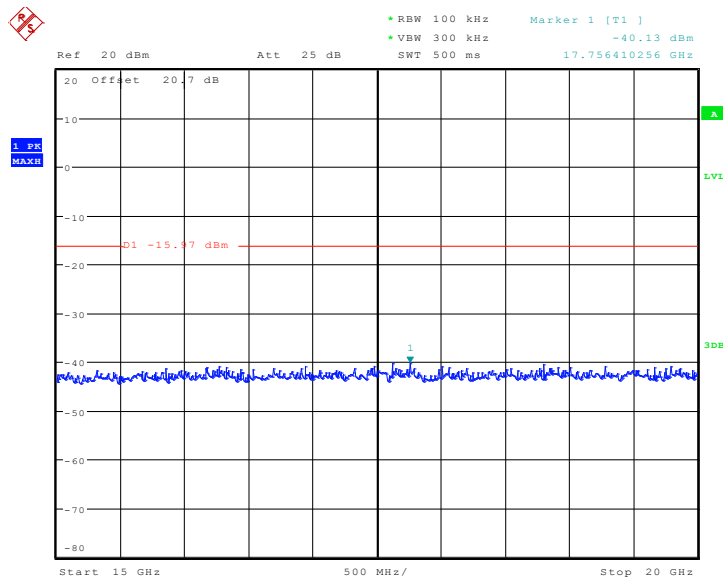
Date: 1.SEP.2013 18:08:27

**Fig.A.6.137 Conducted Spurious Emission (802.11g, Ch6, 7.5 GHz-10 GHz)**



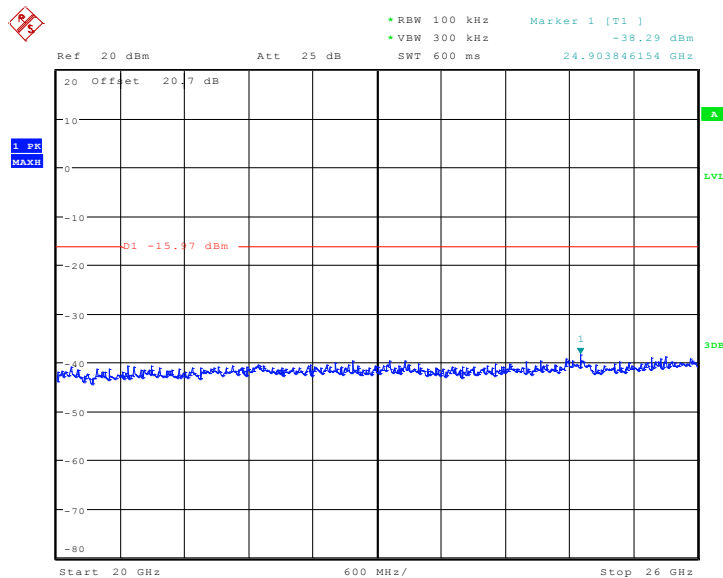
Date: 1.SEP.2013 18:08:45

**Fig.A.6.138 Conducted Spurious Emission (802.11g, Ch6, 10 GHz-15 GHz)**



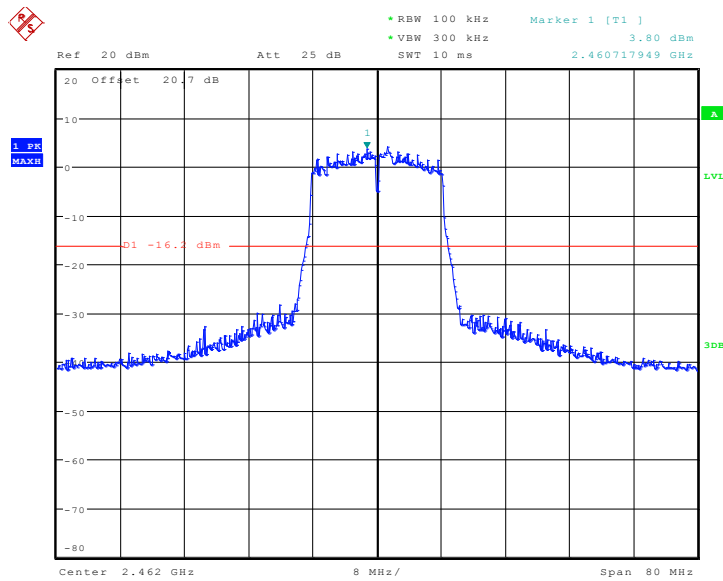
Date: 1.SEP.2013 18:09:05

**Fig.A.6.1.39 Conducted Spurious Emission (802.11g, Ch6, 15 GHz-20 GHz)**



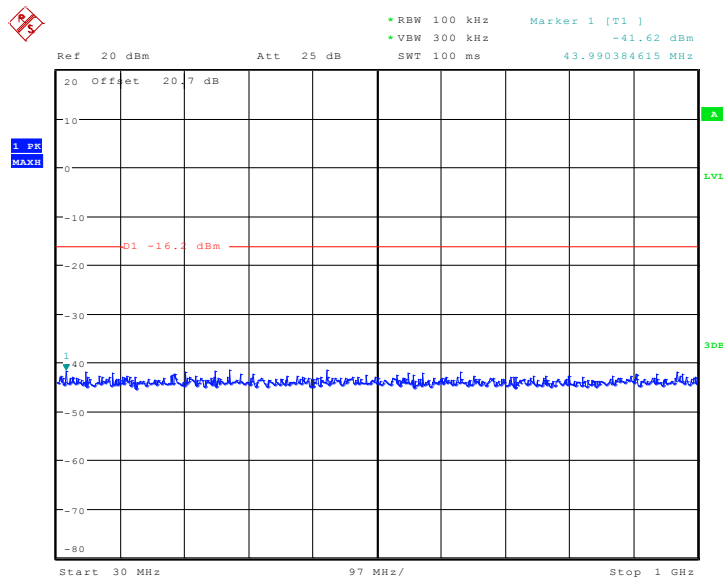
Date: 1.SEP.2013 18:09:23

**Fig.A.6.1.40 Conducted Spurious Emission (802.11g, Ch6, 20 GHz-26 GHz)**



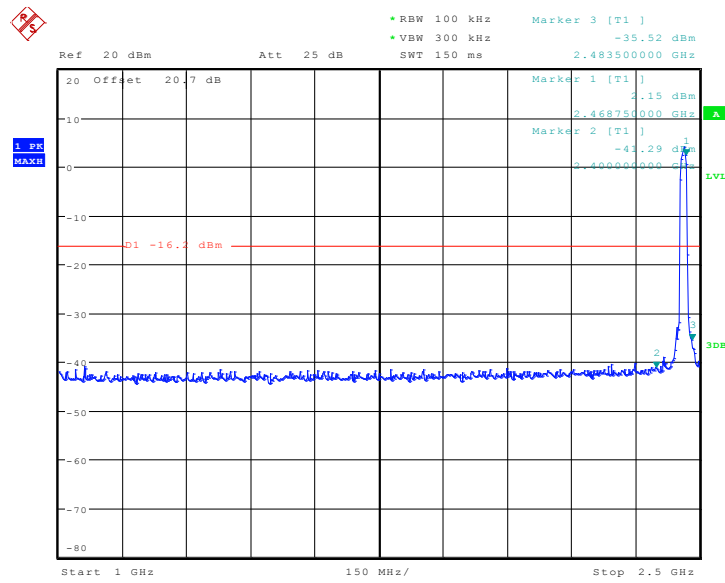
Date: 1.SEP.2013 18:11:08

**Fig.A.6.1.41 Conducted Spurious Emission (802.11g, Ch11, Center Frequency)**



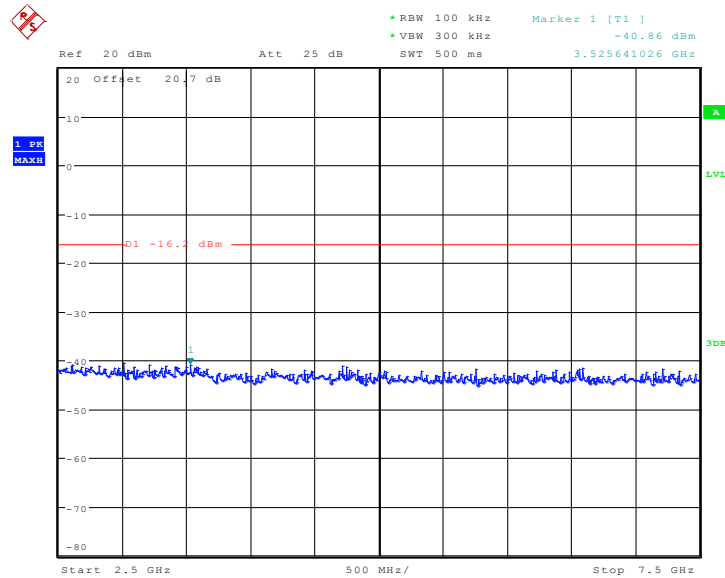
Date: 1.SEP.2013 18:11:22

**Fig.A.6.1.42 Conducted Spurious Emission (802.11g, Ch11, 30 MHz-1 GHz)**



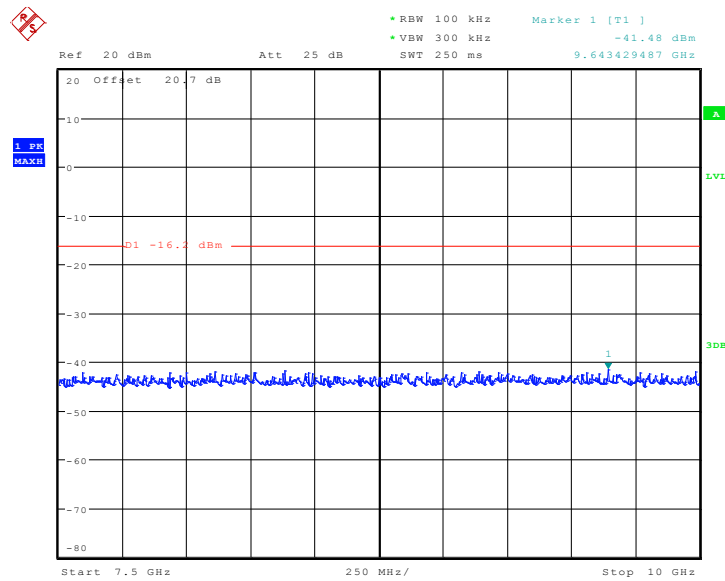
Date: 1.SEP.2013 18:11:55

**Fig.A.6.1.43 Conducted Spurious Emission (802.11g, Ch11, 1 GHz-2.5 GHz)**



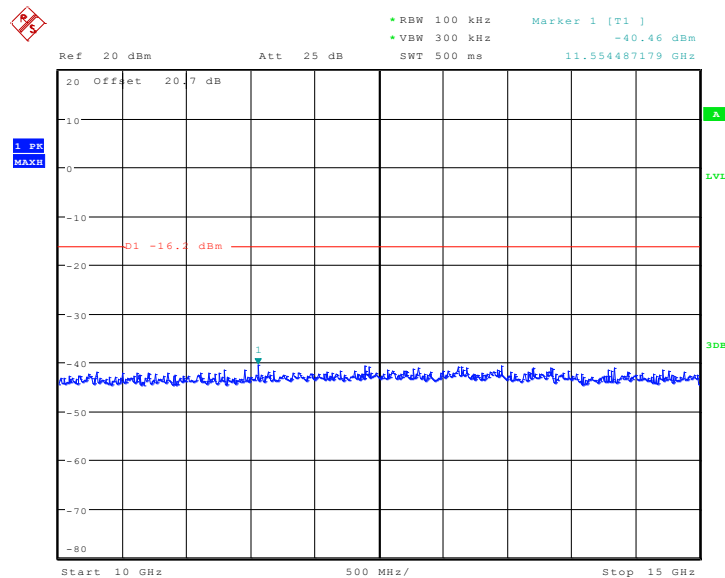
Date: 1.SEP.2013 18:12:13

**Fig.A.6.1.44 Conducted Spurious Emission (802.11g, Ch11, 2.5 GHz-7.5 GHz)**



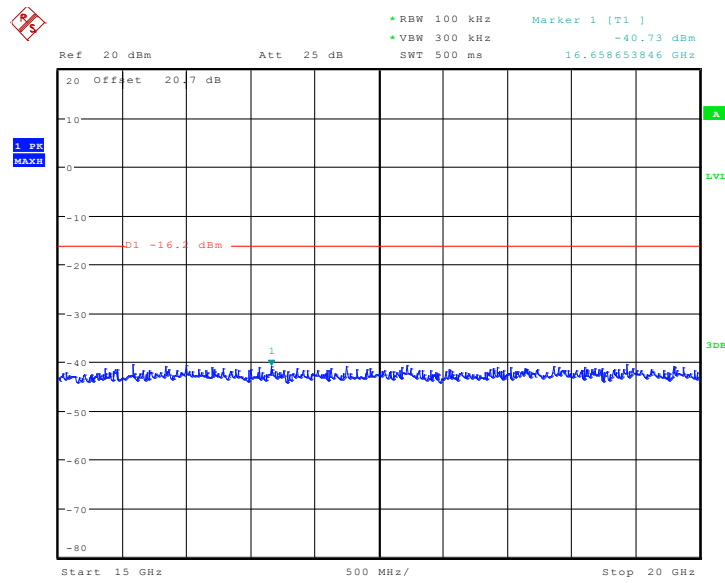
Date: 1.SEP.2013 18:12:31

**Fig.A.6.1.45 Conducted Spurious Emission (802.11g, Ch11, 7.5 GHz-10 GHz)**



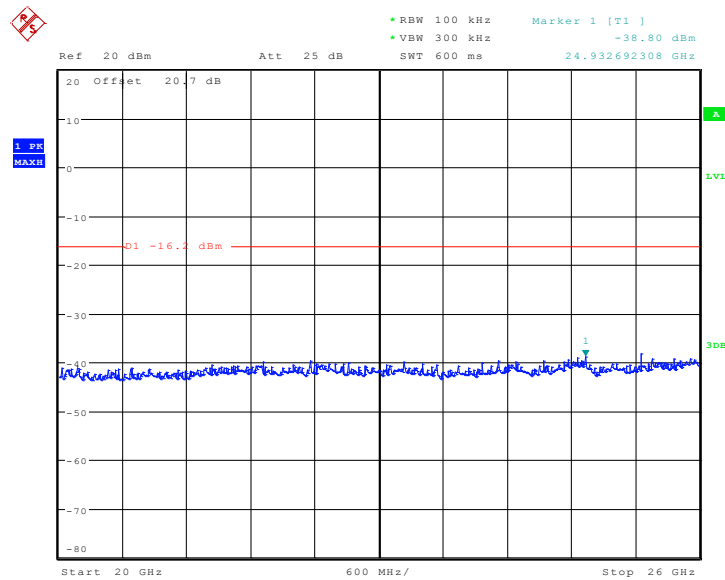
Date: 1.SEP.2013 18:12:51

**Fig.A.6.1.46 Conducted Spurious Emission (802.11g, Ch11, 10 GHz-15 GHz)**



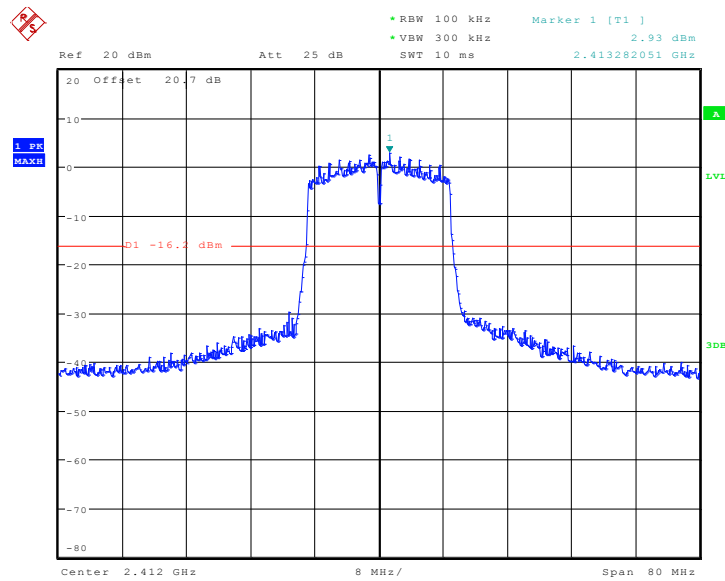
Date: 1.SEP.2013 18:13:09

**Fig.A.6.1.47 Conducted Spurious Emission (802.11g, Ch11, 15 GHz-20 GHz)**



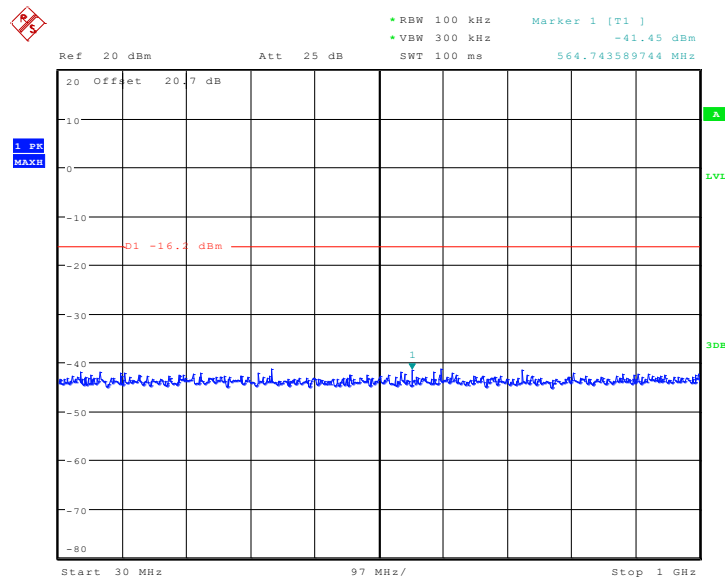
Date: 1.SEP.2013 18:13:26

**Fig.A.6.1.48 Conducted Spurious Emission (802.11g, Ch11, 20 GHz-26 GHz)**



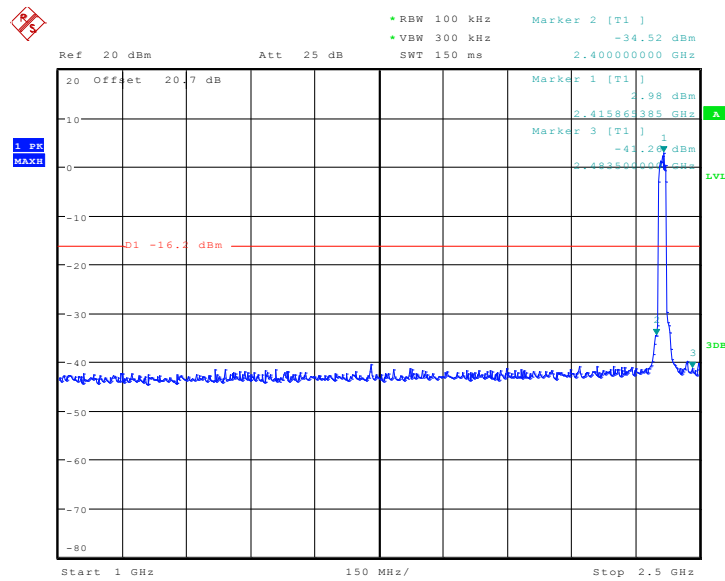
Date: 1.SEP.2013 18:16:55

**Fig.A.6.1.49 Conducted Spurious Emission (802.11n-HT20, Ch1, Center Frequency)**



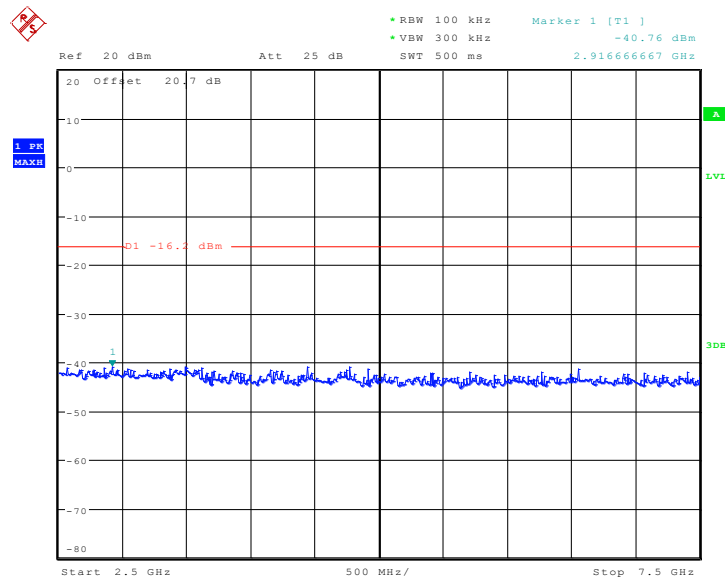
Date: 1.SEP.2013 18:17:11

**Fig.A.6.1.50 Conducted Spurious Emission (802.11n-HT20, Ch1, 30 MHz-1 GHz)**



Date: 1.SEP.2013 18:17:38

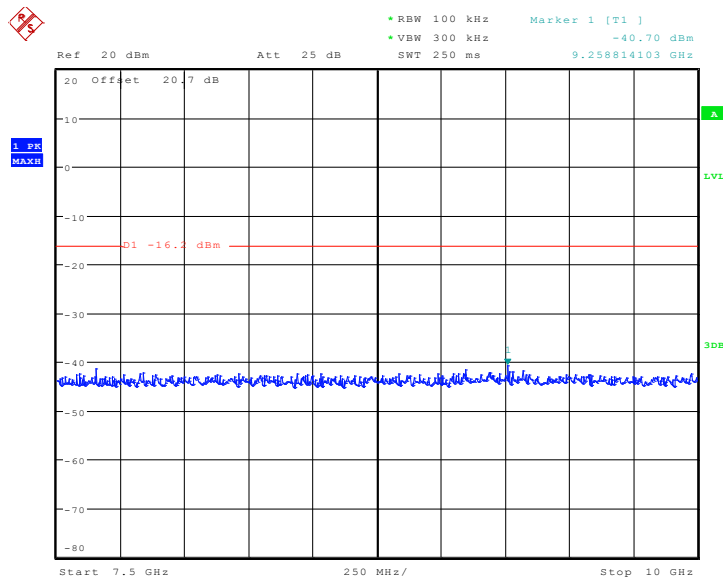
**Fig.A.6.1.51 Conducted Spurious Emission (802.11n-HT20, Ch1, 1 GHz-2.5 GHz)**



Date: 1.SEP.2013 18:17:58

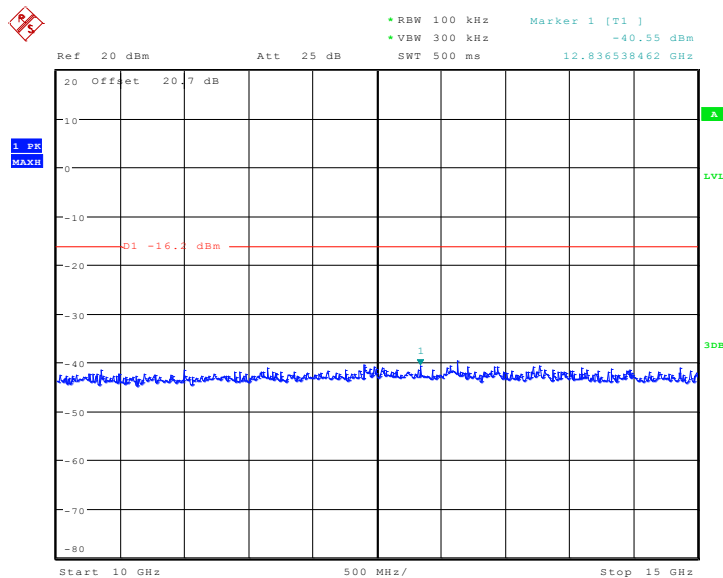
**Fig.A.6.1.52 Conducted Spurious Emission (802.11n-HT20, Ch1, 2.5 GHz-7.5 GHz)**





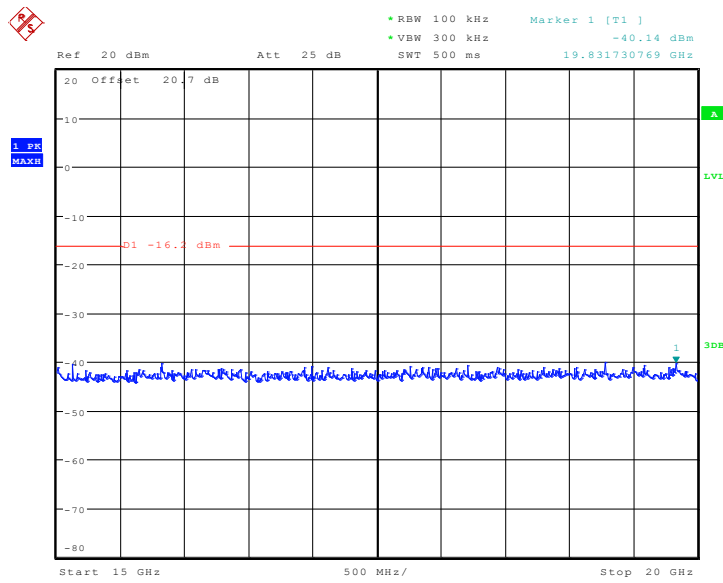
Date: 1.SEP.2013 18:18:16

**Fig.A.6.1.53 Conducted Spurious Emission (802.11n-HT20, Ch1, 7.5 GHz-10 GHz)**



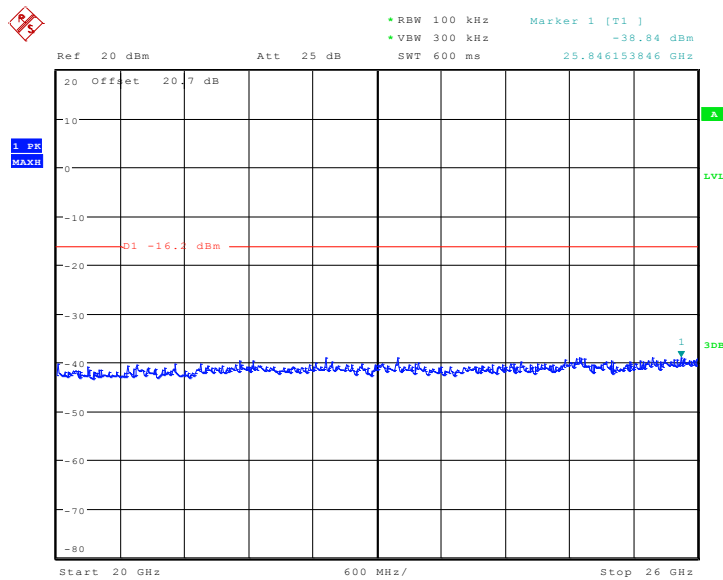
Date: 1.SEP.2013 18:18:37

**Fig.A.6.1.54 Conducted Spurious Emission (802.11n-HT20, Ch1, 10 GHz-15 GHz)**



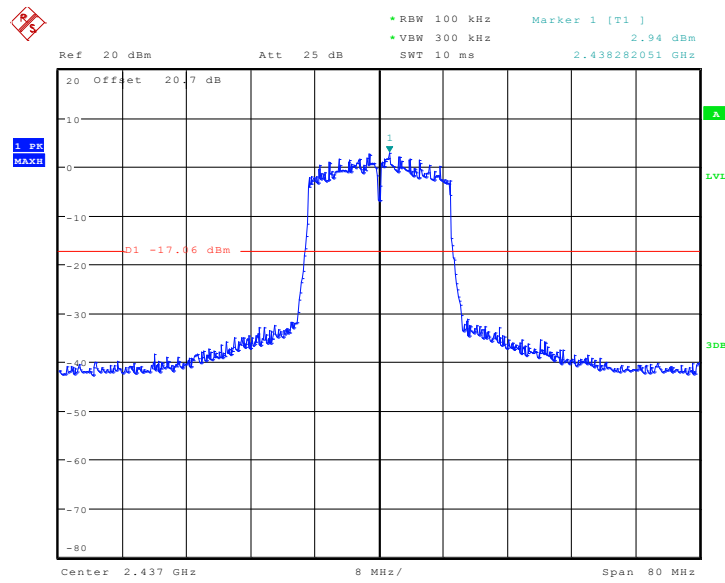
Date: 1.SEP.2013 18:18:58

**Fig.A.6.1.54 Conducted Spurious Emission (802.11n-HT20, Ch1, 15 GHz-20 GHz)**



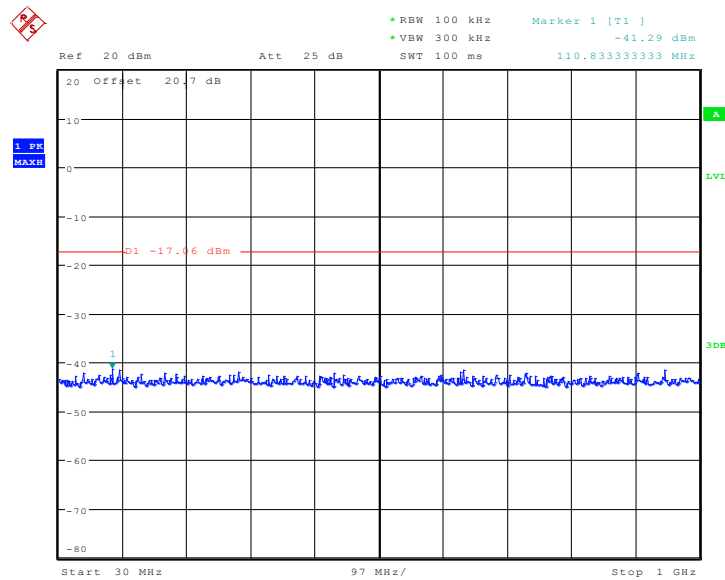
Date: 1.SEP.2013 18:19:26

**Fig.A.6.1.55 Conducted Spurious Emission (802.11n-HT20, Ch1, 20 GHz-26 GHz)**



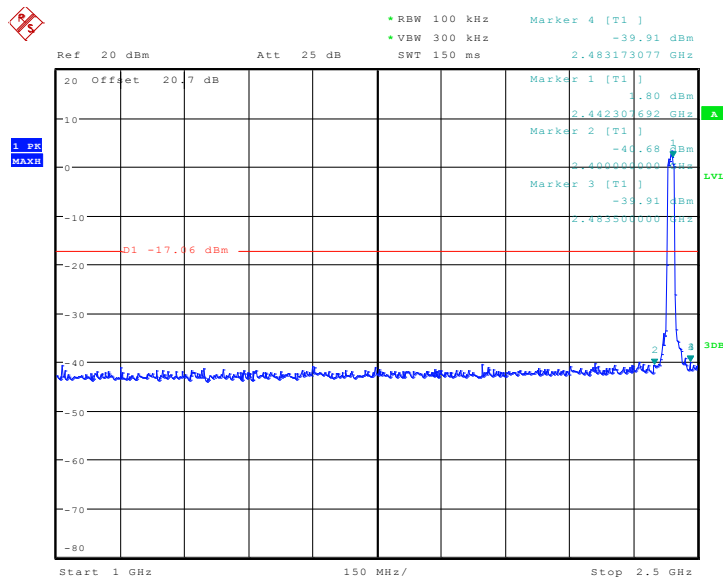
Date: 1.SEP.2013 18:20:11

**Fig.A.6.1.57 Conducted Spurious Emission (802.11n-HT20, Ch6, Center Frequency)**



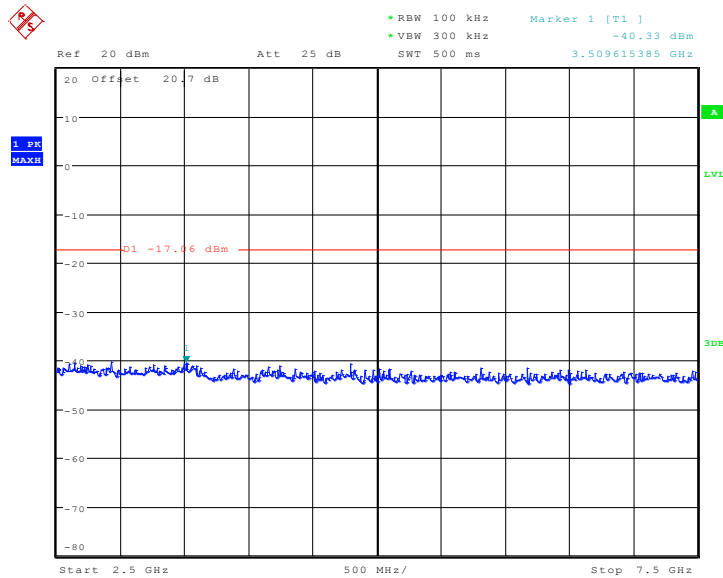
Date: 1.SEP.2013 18:20:26

**Fig.A.6.1.58 Conducted Spurious Emission (802.11n-HT20, Ch6, 30 MHz-1 GHz)**



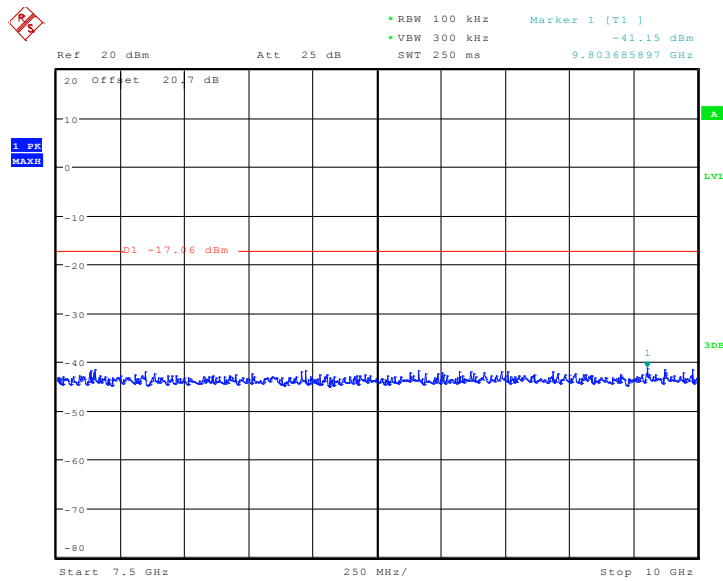
Date: 1.SEP.2013 18:21:27

**Fig.A.6.1.59 Conducted Spurious Emission (802.11n-HT20, Ch6, 1 GHz-2.5 GHz)**



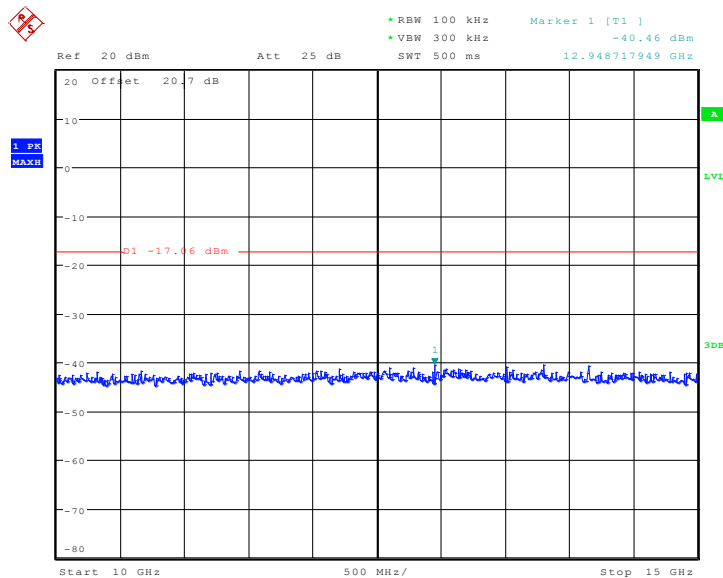
Date: 1.SEP.2013 18:21:53

**Fig.A.6.1.60 Conducted Spurious Emission (802.11n-HT20, Ch6, 2.5 GHz-7.5 GHz)**



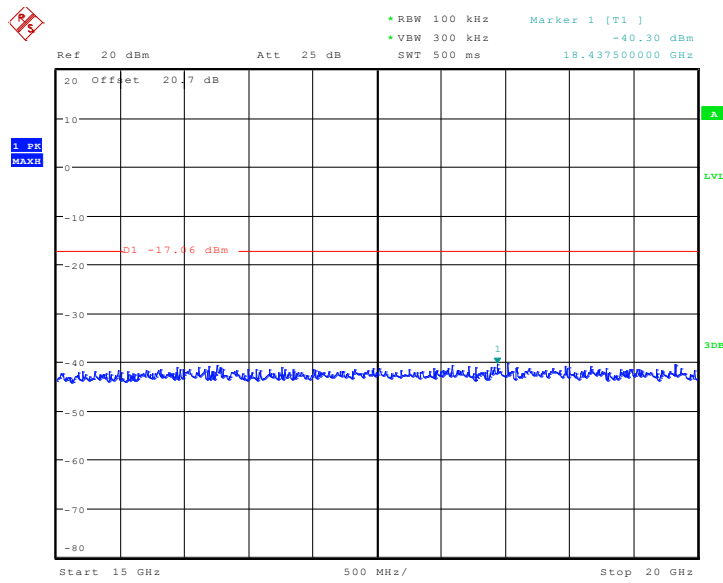
Date: 1.SEP.2013 18:22:15

**Fig.A.6.1.61 Conducted Spurious Emission (802.11n-HT20, Ch6, 7.5 GHz-10 GHz)**



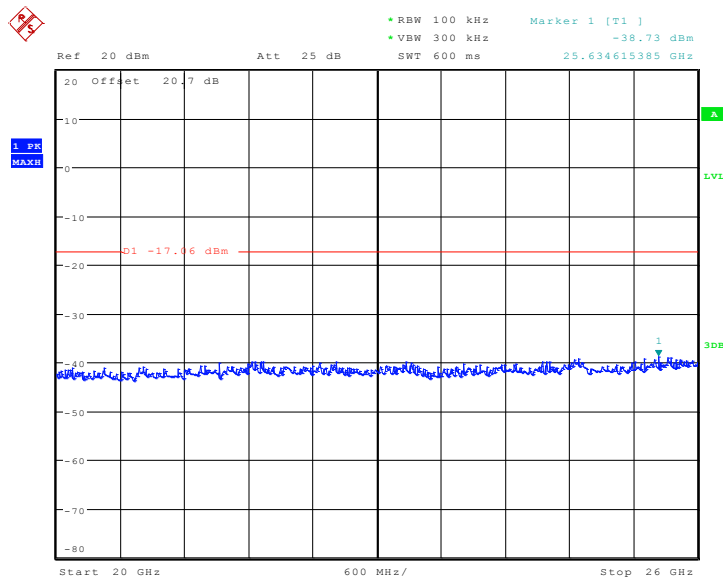
Date: 1.SEP.2013 18:22:32

**Fig.A.6.1.62 Conducted Spurious Emission (802.11n-HT20, Ch6, 10 GHz-15 GHz)**



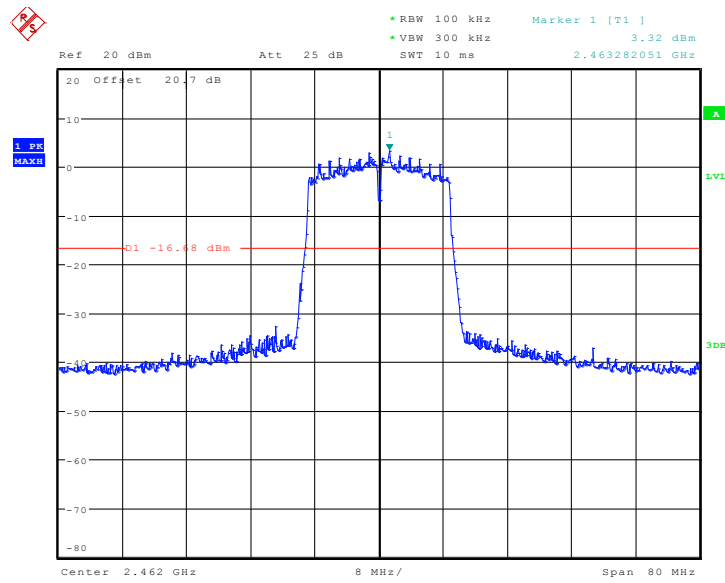
Date: 1.SEP.2013 18:22:54

**Fig.A.6.1.63 Conducted Spurious Emission (802.11n-HT20, Ch6, 15 GHz-20 GHz)**



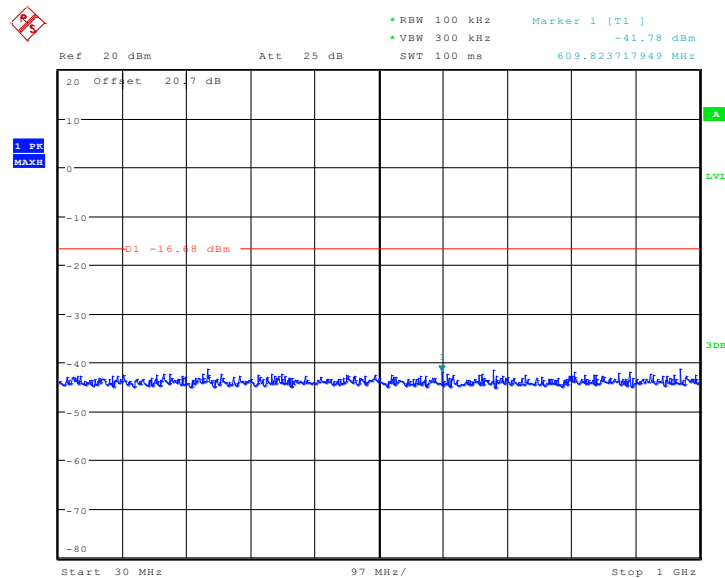
Date: 1.SEP.2013 18:23:16

**Fig.A.6.1.64 Conducted Spurious Emission (802.11n-HT20, Ch6, 20 GHz-26 GHz)**



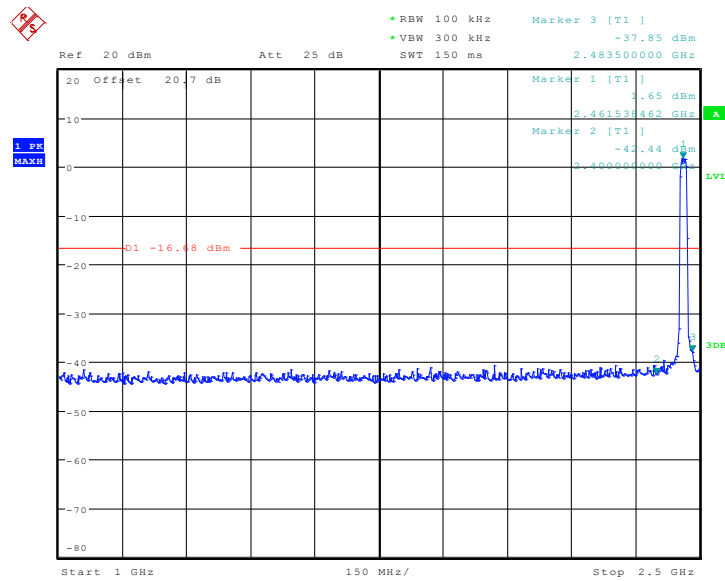
Date: 1.SEP.2013 18:24:34

**Fig.A.6.1.65 Conducted Spurious Emission (802.11n-HT20, Ch11, Center Frequency)**



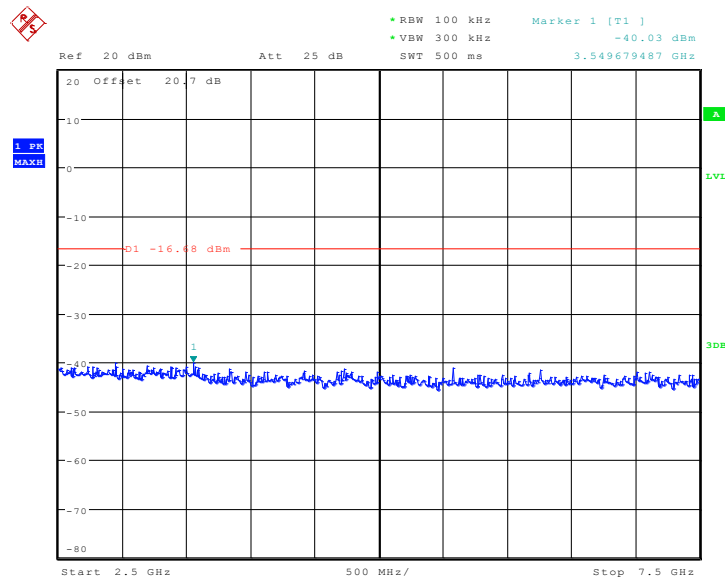
Date: 1.SEP.2013 18:24:48

**Fig.A.6.1.66 Conducted Spurious Emission (802.11n-HT20, Ch11, 30 MHz-1 GHz)**



Date: 1.SEP.2013 18:25:13

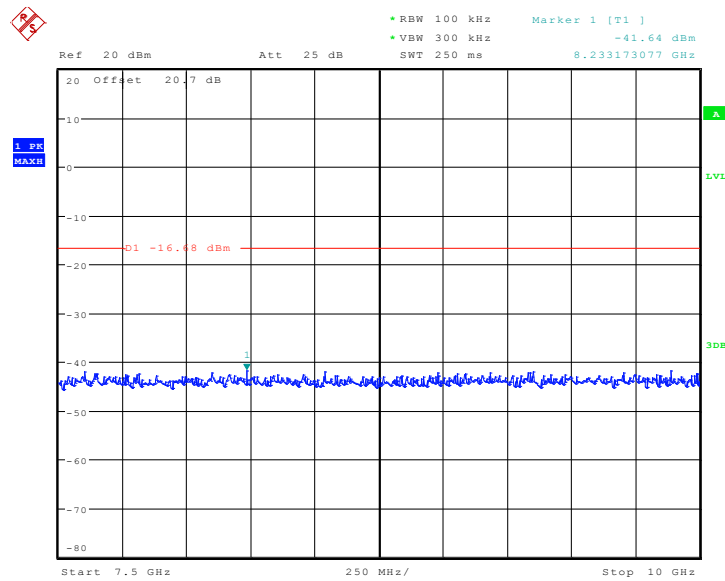
**Fig.A.6.1.67 Conducted Spurious Emission (802.11n-HT20, Ch11, 1 GHz-2.5 GHz)**



Date: 1.SEP.2013 18:25:29

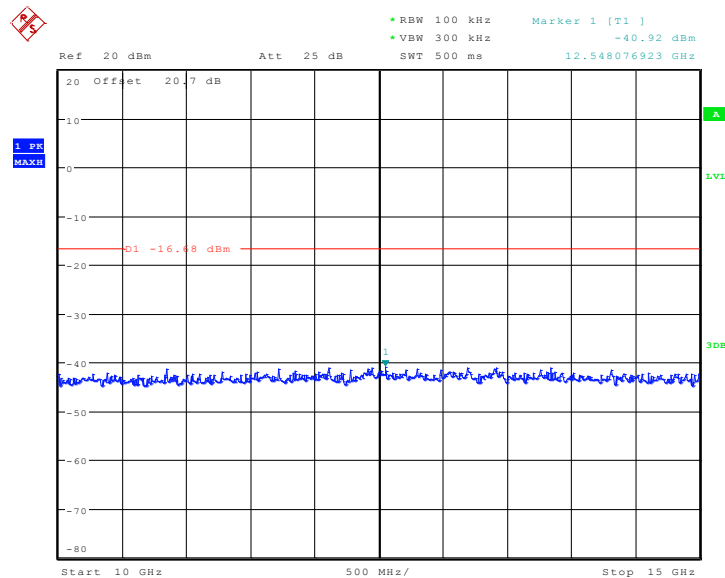
**Fig.A.6.1.68 Conducted Spurious Emission (802.11n-HT20, Ch11, 2.5 GHz-7.5 GHz)**





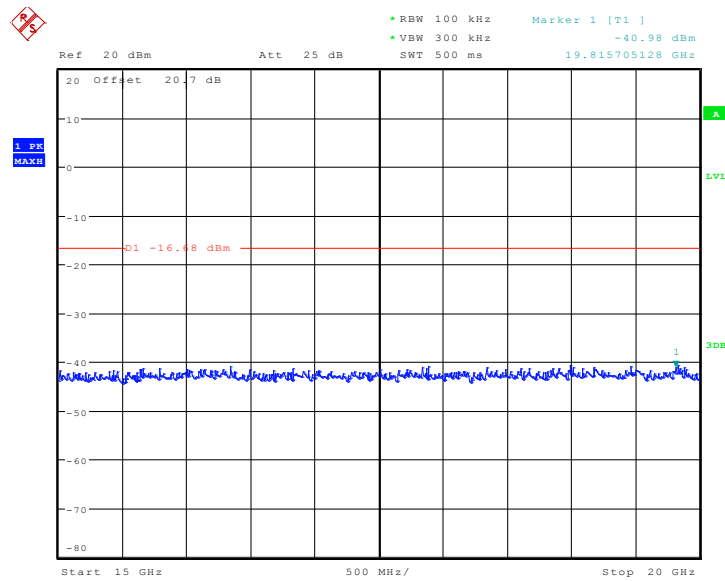
Date: 1.SEP.2013 18:25:46

**Fig.A.6.1.69 Conducted Spurious Emission (802.11n-HT20, Ch11, 7.5 GHz-10 GHz)**



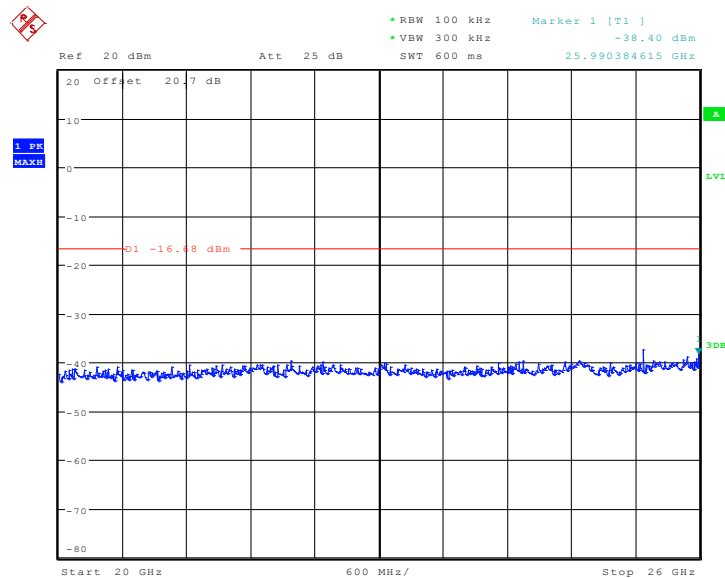
Date: 1.SEP.2013 18:26:03

**Fig.A.6.1.70 Conducted Spurious Emission (802.11n-HT20, Ch11, 10 GHz-15 GHz)**



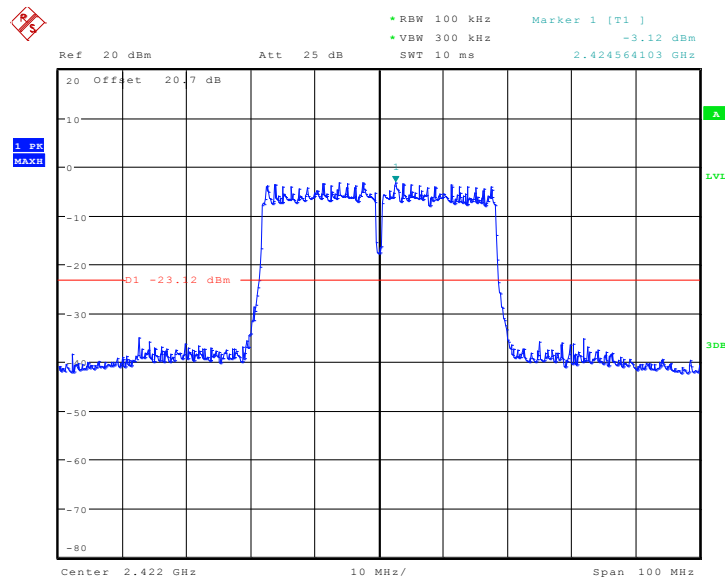
Date: 1.SEP.2013 18:26:20

**Fig.A.6.1.71 Conducted Spurious Emission (802.11n-HT20, Ch11, 15 GHz-20 GHz)**



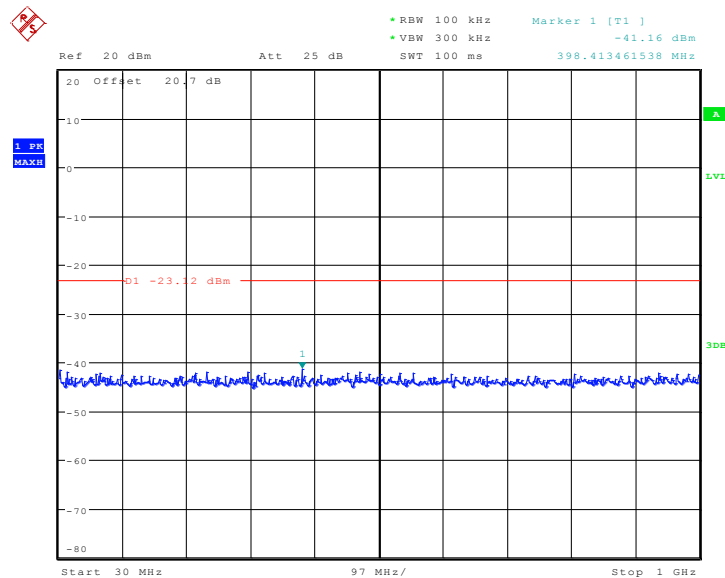
Date: 1.SEP.2013 18:26:36

**Fig.A.6.1.72 Conducted Spurious Emission (802.11n-HT20, Ch11, 20 GHz-26 GHz)**



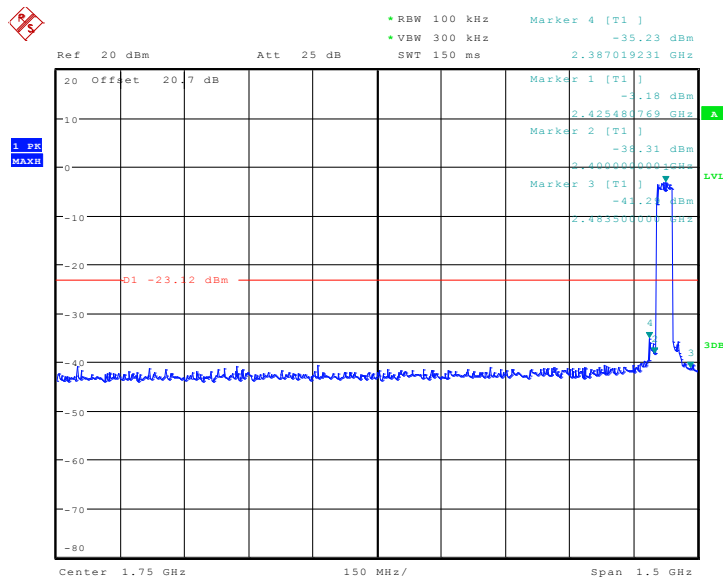
Date: 1.SEP.2013 18:30:32

**Fig.A.6.1.73 Conducted Spurious Emission (802.11n-HT40, Ch3, Center Frequency)**



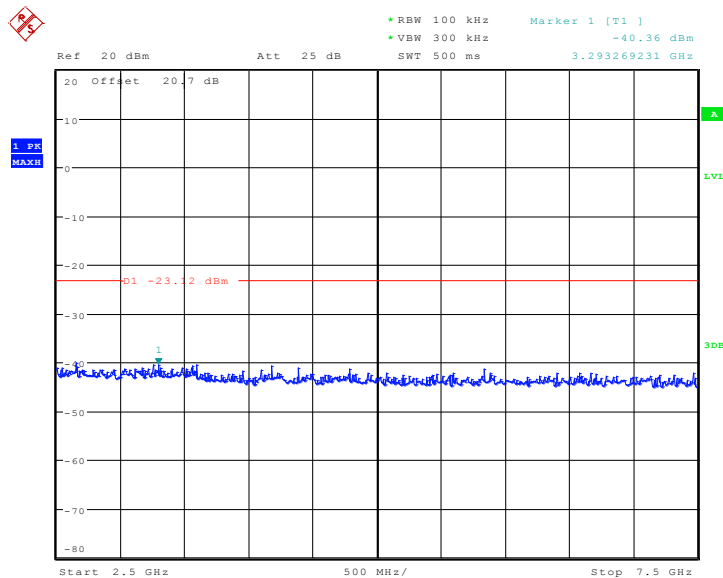
Date: 1.SEP.2013 18:30:53

**Fig.A.6.1.74 Conducted Spurious Emission (802.11n-HT40, Ch3, 30 MHz-1 GHz)**



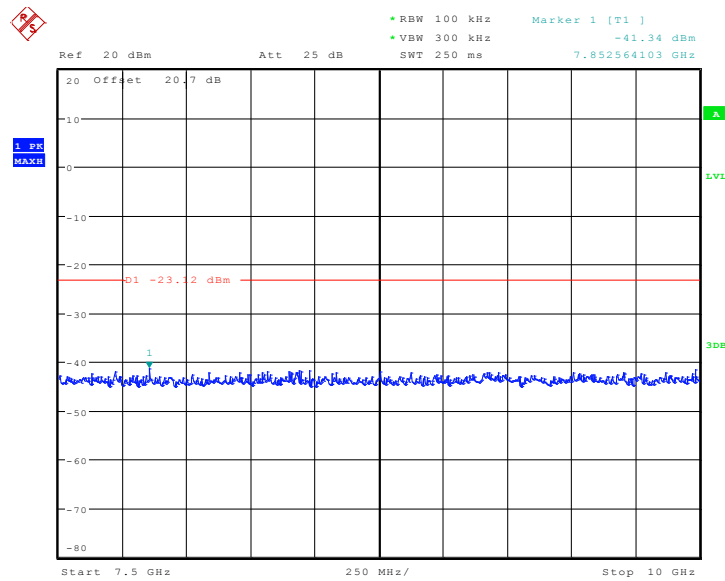
Date: 1.SEP.2013 18:31:37

**Fig.A.6.1.75 Conducted Spurious Emission (802.11n-HT40, Ch3, 1 GHz-2.5 GHz)**



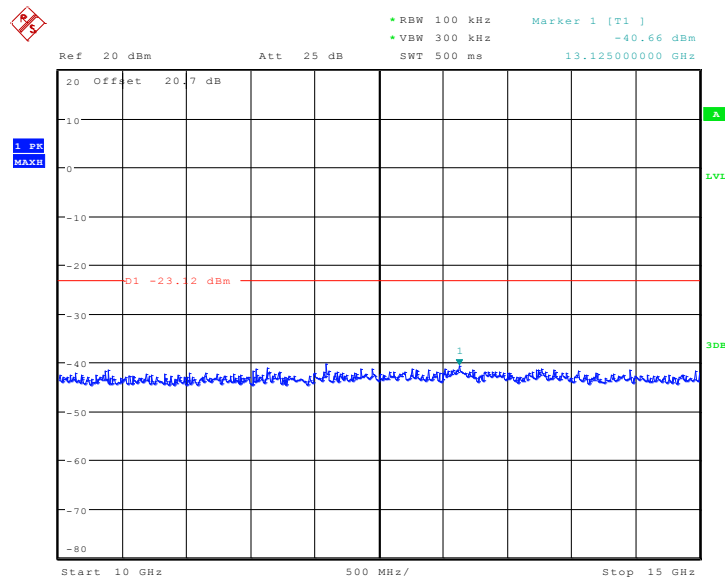
Date: 1.SEP.2013 18:31:58

**Fig.A.6.1.76 Conducted Spurious Emission (802.11n-HT40, Ch3, 2.5 GHz-7.5 GHz)**



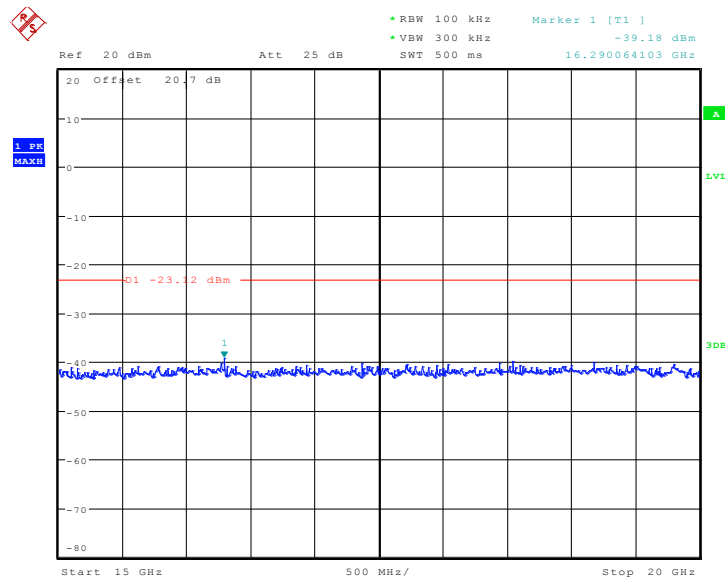
Date: 1.SEP.2013 18:32:20

**Fig.A.6.1.77 Conducted Spurious Emission (802.11n-HT40, Ch3, 7.5 GHz-10 GHz)**



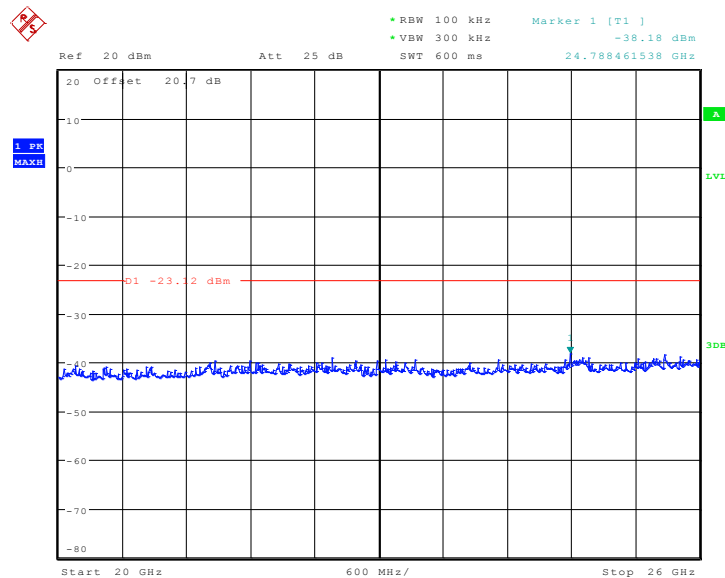
Date: 1.SEP.2013 18:32:49

**Fig.A.6.1.78 Conducted Spurious Emission (802.11n-HT40, Ch3, 10 GHz-15 GHz)**



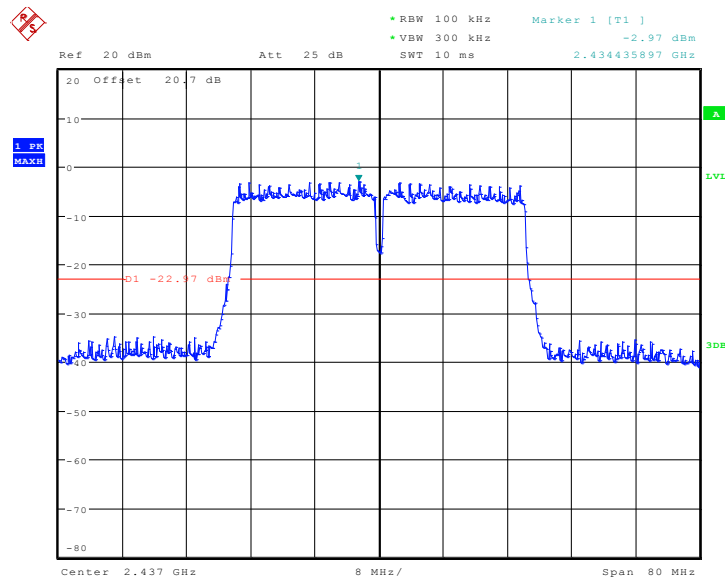
Date: 1.SEP.2013 18:33:51

**Fig.A.6.1.79 Conducted Spurious Emission (802.11n-HT40, Ch3, 15 GHz-20 GHz)**



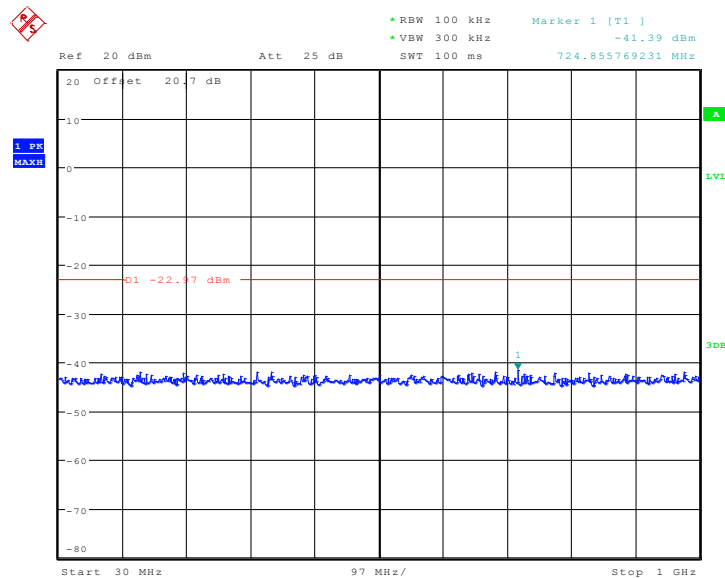
Date: 1.SEP.2013 18:34:23

**Fig.A.6.1.80 Conducted Spurious Emission (802.11n-HT40, Ch3, 20 GHz-26 GHz)**



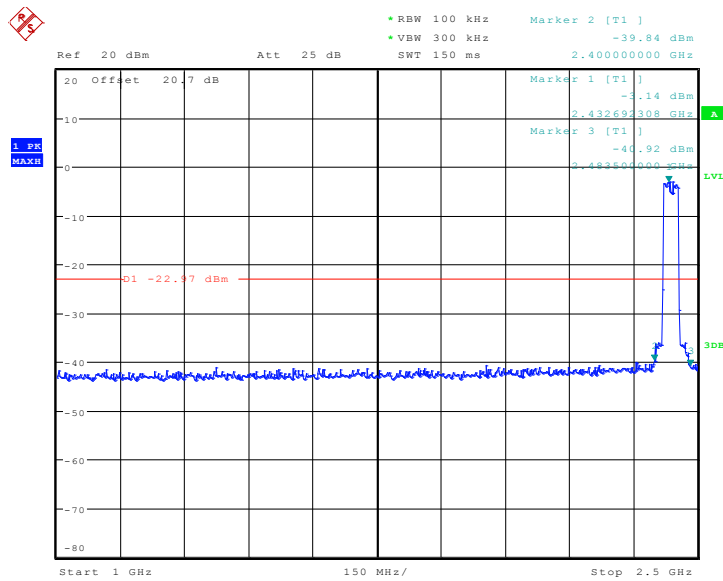
Date: 1.SEP.2013 18:38:11

**Fig.A.6.1.81 Conducted Spurious Emission (802.11n-HT40, Ch6, Center Frequency)**



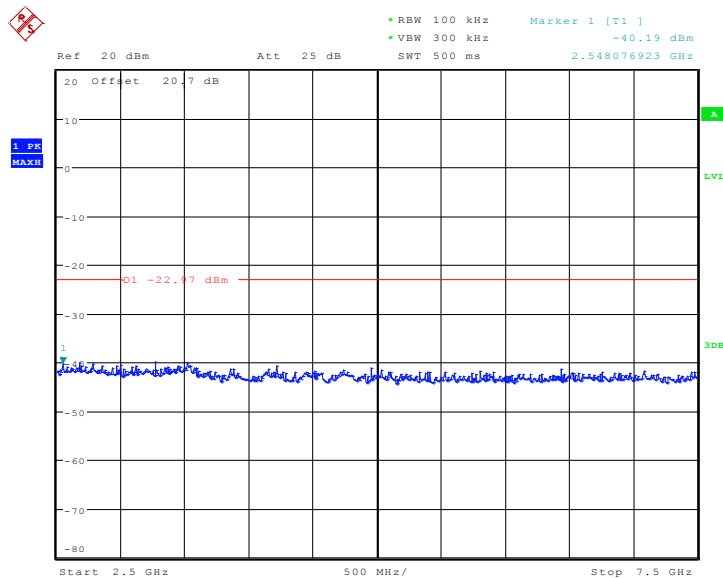
Date: 1.SEP.2013 18:38:37

**Fig.A.6.1.82 Conducted Spurious Emission (802.11n-HT40, Ch6, 30 MHz-1 GHz)**



Date: 1.SEP.2013 18:39:40

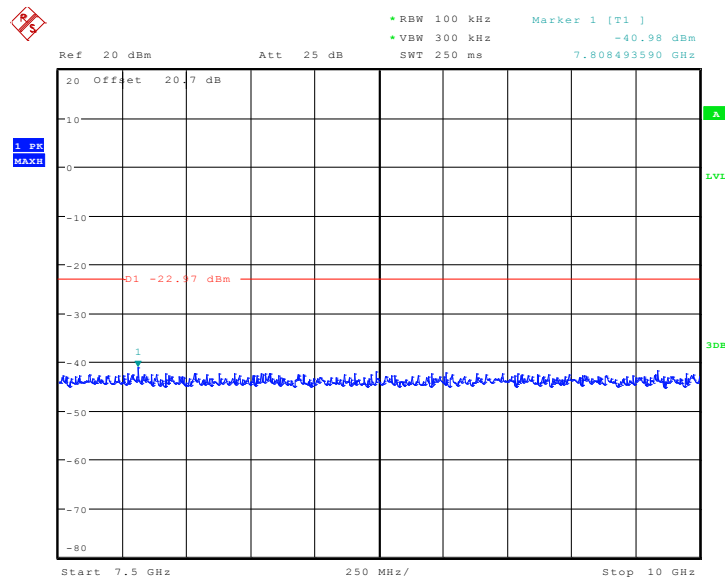
**Fig.A.6.1.83 Conducted Spurious Emission (802.11n-HT40, Ch6, 1 GHz-2.5 GHz)**



Date: 1.SEP.2013 18:40:27

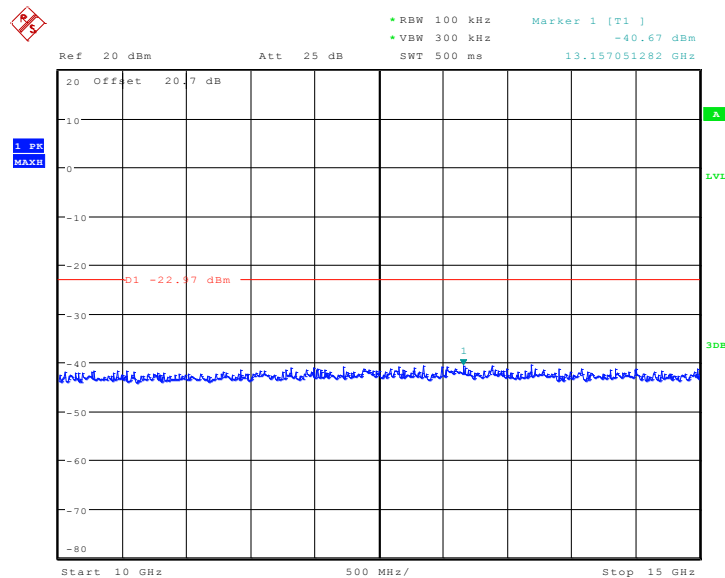
**Fig.A.6.1.84 Conducted Spurious Emission (802.11n-HT40, Ch6, 2.5 GHz-7.5 GHz)**





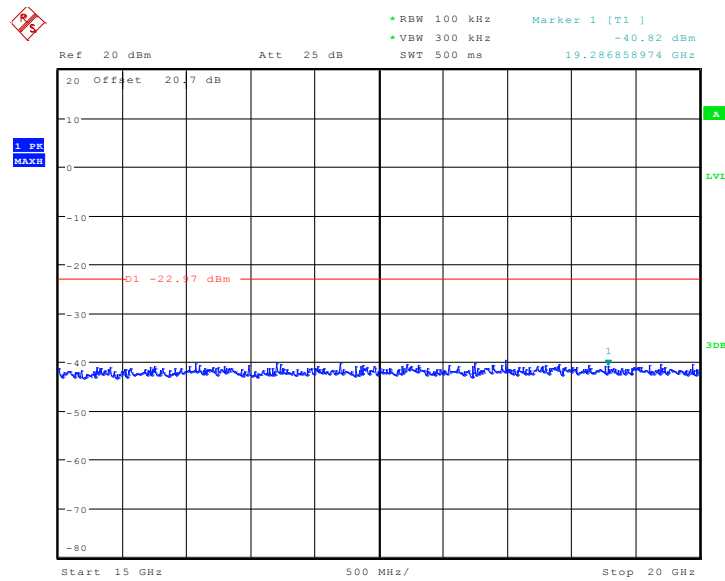
Date: 1.SEP.2013 18:40:52

**Fig.A.6.1.85 Conducted Spurious Emission (802.11n-HT40, Ch6, 7.5 GHz-10 GHz)**



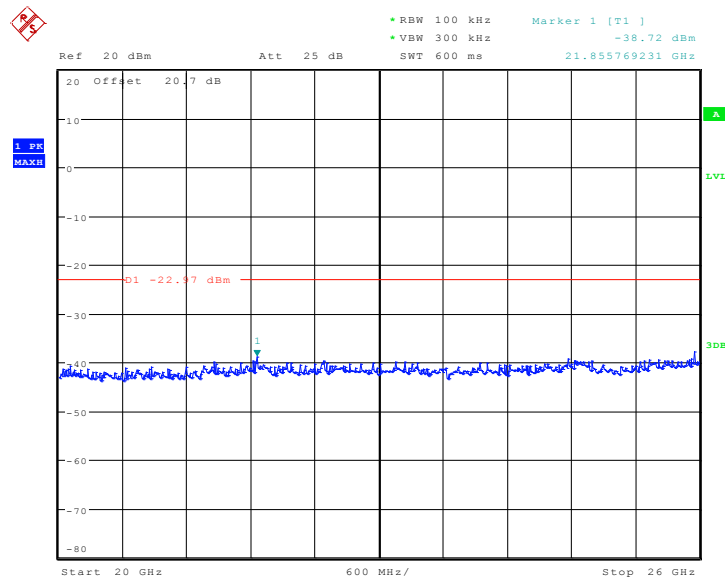
Date: 1.SEP.2013 18:41:28

**Fig.A.6.1.86 Conducted Spurious Emission (802.11n-HT40, Ch6, 10 GHz-15 GHz)**



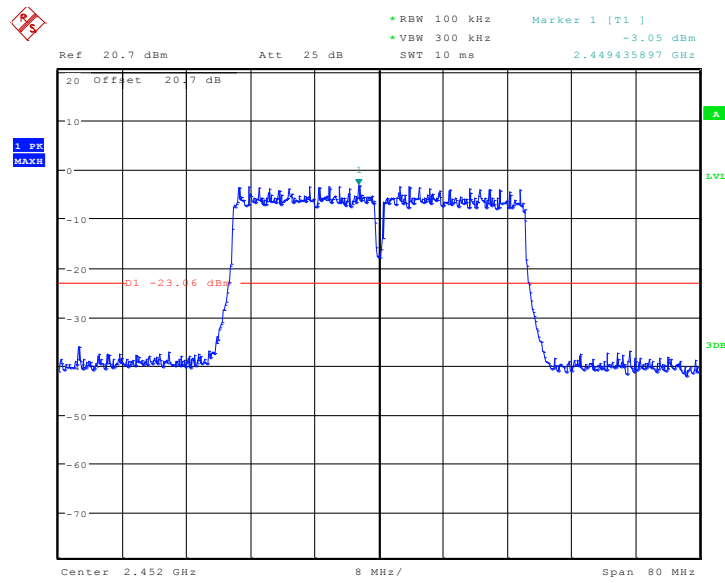
Date: 1.SEP.2013 18:42:29

**Fig.A.6.1.87 Conducted Spurious Emission (802.11n-HT40, Ch6, 15 GHz-20 GHz)**



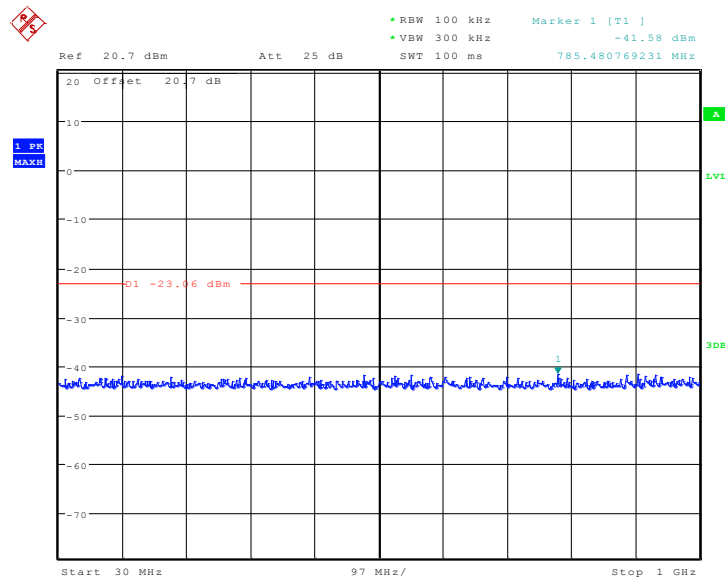
Date: 1.SEP.2013 18:42:54

**Fig.A.6.1.88 Conducted Spurious Emission (802.11n-HT40, Ch6, 20 GHz-26 GHz)**



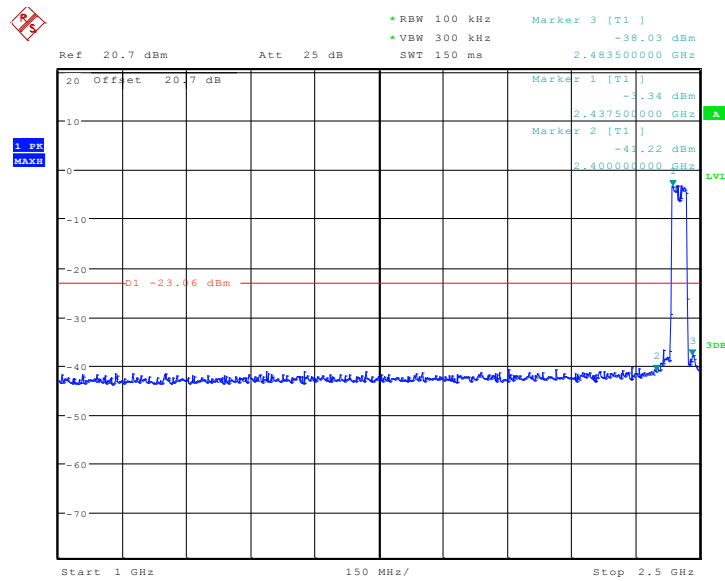
Date: 1.SEP.2013 18:44:47

**Fig.A.6.1.89 Conducted Spurious Emission (802.11n-HT40, Ch9, Center Frequency)**



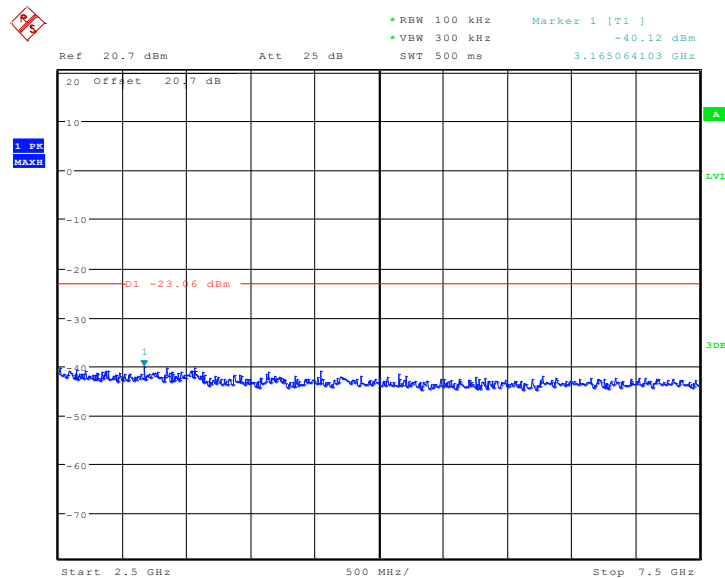
Date: 1.SEP.2013 18:45:14

**Fig.A.6.1.90 Conducted Spurious Emission (802.11n-HT40, Ch9, 30 MHz-1 GHz)**



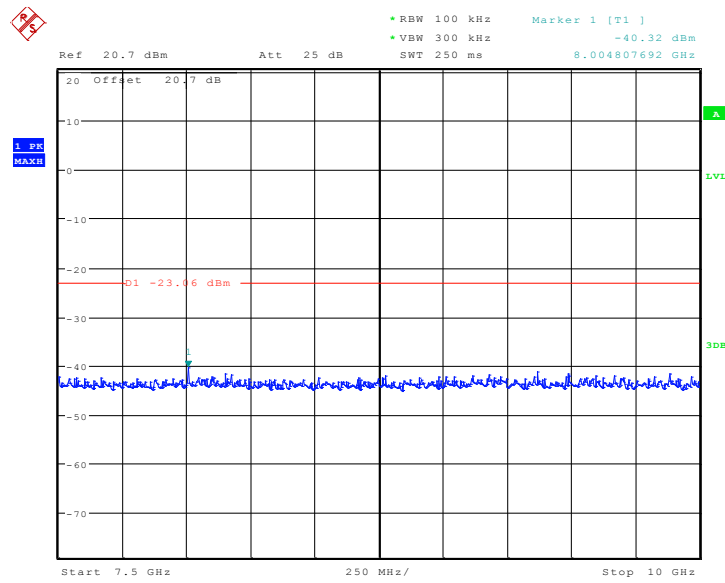
Date: 1.SEP.2013 18:46:22

**Fig.A.6.1.91 Conducted Spurious Emission (802.11n-HT40, Ch9, 1 GHz-2.5 GHz)**



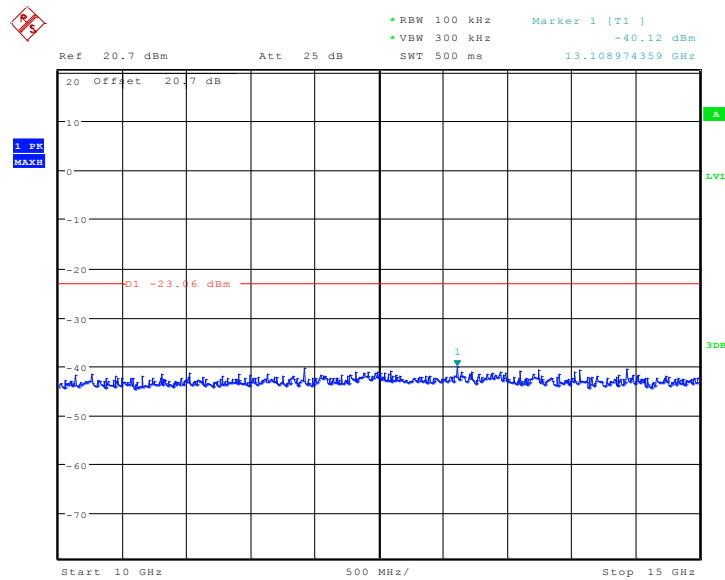
Date: 1.SEP.2013 18:46:49

**Fig.A.6.1.92 Conducted Spurious Emission (802.11n-HT40, Ch9, 2.5 GHz-7.5 GHz)**



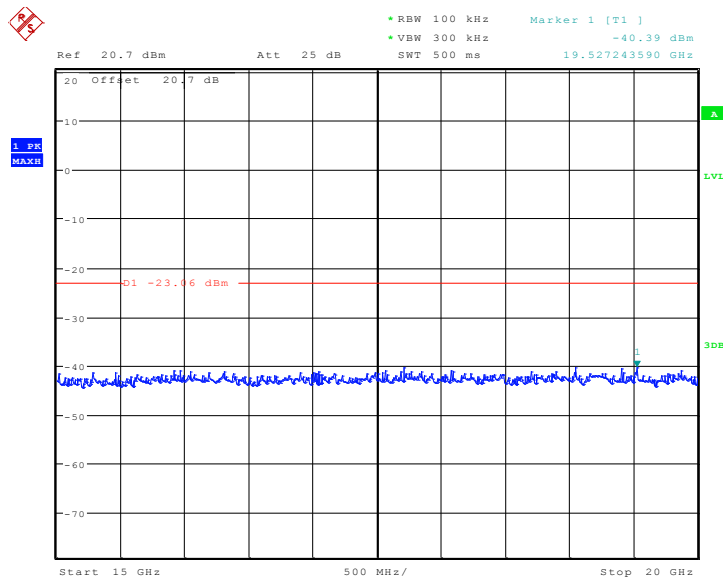
Date: 1.SEP.2013 18:47:10

**Fig.A.6.1.93 Conducted Spurious Emission (802.11n-HT40, Ch9, 7.5 GHz-10 GHz)**



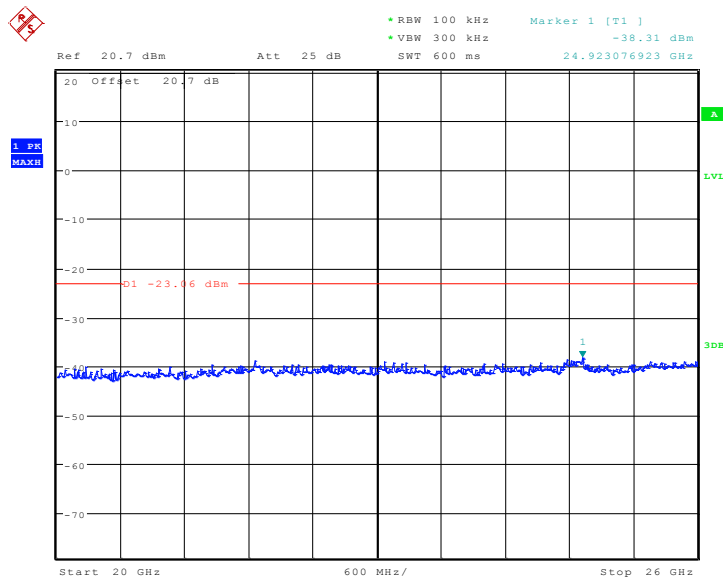
Date: 1.SEP.2013 18:47:35

**Fig.A.6.1.94 Conducted Spurious Emission (802.11n-HT40, Ch9, 10 GHz-15 GHz)**



Date: 1.SEP.2013 18:48:06

**Fig.A.6.1.95 Conducted Spurious Emission (802.11n-HT40, Ch9, 15 GHz-20 GHz)**



Date: 1.SEP.2013 18:49:46

**Fig.A.6.1.96 Conducted Spurious Emission (802.11n-HT40, Ch9, 20 GHz-26 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 KDB558074.

**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

**EUT ID:EUT1**

**Modulation type and data rate tested:**

802.11b	802.11g	802.11n-HT20	802.11n-HT40
11Mbps(CCK)	24Mbps(OFDM)	MCS3(OFDM)	MCS3(OFDM)

**Measurement Results:**

**802.11b/g mode**

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11b	Power	2.38GHz ~2.45GHz	Fig.A.6.2.1	P
	1	30 MHz ~1 GHz	Fig.A.6.2.2	P
		1 GHz ~ 3 GHz	Fig.A.6.2.3	P
		3 GHz ~ 18 GHz	Fig.A.6.2.4	P
	6	30 MHz ~1 GHz	Fig.A.6.2.5	P
		1 GHz ~ 3 GHz	Fig.A.6.2.6	P
		3 GHz ~ 18 GHz	Fig.A.6.2.7	P
	Power	2.45GHz ~2.5GHz	Fig.A.6.2.8	P
	11	30 MHz ~1 GHz	Fig.A.6.2.9	P
		1 GHz ~ 3 GHz	Fig.A.6.2.10	P
		3 GHz ~ 18 GHz	Fig.A.6.2.11	P
	802.11g	Power	2.38GHz ~2.43GHz	Fig.A.6.2.12
1		30 MHz ~1 GHz	Fig.A.6.2.13	P
		1 GHz ~ 3 GHz	Fig.A.6.2.14	P
		3 GHz ~ 18 GHz	Fig.A.6.2.15	P
6		30 MHz ~1 GHz	Fig.A.6.2.16	P
		1 GHz ~ 3 GHz	Fig.A.6.2.17	P
		3 GHz ~ 18 GHz	Fig.A.6.2.18	P
Power		2.45GHz ~2.5GHz	Fig.A.6.2.19	P
11		30 MHz ~1 GHz	Fig.A.6.2.20	P
		1 GHz ~ 3 GHz	Fig.A.6.2.21	P
		3 GHz ~ 18 GHz	Fig.A.6.2.22	P

**802.11n mode**

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT20)	Power	2.38GHz ~2.45GHz	Fig.A.6.2.23	P
	1	30 MHz ~1 GHz	Fig.A.6.2.24	P
		1 GHz ~ 3 GHz	Fig.A.6.2.25	P
		3 GHz ~ 18 GHz	Fig.A.6.2.26	P
	6	30 MHz ~1 GHz	Fig.A.6.2.27	P
		1 GHz ~ 3 GHz	Fig.A.6.2.28	P
		3 GHz ~ 18 GHz	Fig.A.6.2.29	P
	Power	2.45GHz ~2.5GHz	Fig.A.6.2.30	P
	11	30 MHz ~1 GHz	Fig.A.6.2.31	P
		1 GHz ~ 3 GHz	Fig.A.6.2.32	P
		3 GHz ~ 18 GHz	Fig.A.6.2.33	P
	802.11n (HT40)	Power	2.38GHz ~2.45GHz	Fig.A.6.2.34
3		30 MHz ~1 GHz	Fig.A.6.2.35	P
		1 GHz ~ 3 GHz	Fig.A.6.2.36	P
		3 GHz ~ 18 GHz	Fig.A.6.2.37	P



	6	30 MHz ~1 GHz	Fig.A.6.2.38	<b>P</b>
		1 GHz ~ 3 GHz	Fig.A.6.2.39	<b>P</b>
		3 GHz ~ 18 GHz	Fig.A.6.2.40	<b>P</b>
	Power	2.45GHz ~2.5GHz	Fig.A.6.2.41	<b>P</b>
	9	30 MHz ~1 GHz	Fig.A.6.2.42	<b>P</b>
		1 GHz ~ 3 GHz	Fig.A.6.2.43	<b>P</b>
3 GHz ~ 18 GHz		Fig.A.6.2.44	<b>P</b>	
/	All channels	18 GHz~ 26.5 GHz	Fig.A.6.2.45	<b>P</b>

**Conclusion: Pass**

**Measurement Uncertainty:**

Frequency Range	Uncertainty(dB)
$f \leq 1\text{GHz}$	3.9
$f > 1\text{GHz}$	4.3

**Note:**

Radiated Emissions within 9kHz-30MHz are more than 20dB below the limit.

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:

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

**802.11b**

Ch1

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P <sub>Mea</sub> (dBuV/m)	Polarization
17758.500	58.5	-22.8	42.2	39.171	VERTICAL
17450.250	57.9	-23.7	42.6	39.023	HORIZONTAL
17490.000	57.6	-22.8	43.0	37.345	HORIZONTAL
17589.000	57.5	-22.8	42.7	37.575	HORIZONTAL
17514.000	57.5	-22.8	42.8	37.515	VERTICAL
17852.250	57.4	-22.9	42.7	37.553	HORIZONTAL

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P <sub>Mea</sub> (dBuV/m)	Polarization
17526.000	57.9	-22.8	42.9	37.755	HORIZONTAL
17947.500	57.7	-22.9	42.4	38.193	HORIZONTAL
17627.250	57.5	-22.8	42.7	37.615	VERTICAL
17988.000	57.5	-22.5	42.3	37.767	HORIZONTAL
17444.250	57.4	-23.7	42.7	38.383	HORIZONTAL
17446.500	57.2	-23.7	42.7	38.183	VERTICAL

Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P <sub>Mea</sub> (dBuV/m)	Polarization
17997.000	57.9	-22.5	42.3	38.167	VERTICAL
17712.000	57.8	-22.8	42.8	37.811	HORIZONTAL
17498.250	57.7	-22.8	43.0	37.445	VERTICAL
17502.000	57.5	-22.8	42.8	37.515	HORIZONTAL
17208.000	57.4	-23.7	43.0	38.043	HORIZONTAL
17472.750	57.4	-22.8	42.6	37.585	VERTICAL

**802.11g**

Ch1

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	PMea (dBuV/m)	Polarization
17466.000	57.8	-22.8	42.6	37.985	HORIZONTAL
17575.500	57.6	-22.8	42.7	37.675	HORIZONTAL
17581.500	57.4	-22.8	42.7	37.475	VERTICAL
17448.750	57.4	-23.7	42.7	38.383	HORIZONTAL
17895.750	57.3	-22.9	42.5	37.693	HORIZONTAL
17408.250	57.2	-23.7	42.7	38.213	VERTICAL

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	PMea (dBuV/m)	Polarization
17521.500	58.6	-22.8	42.8	38.615	VERTICAL
17700.000	57.8	-22.8	42.8	37.811	VERTICAL
17662.500	57.7	-22.8	42.7	37.871	HORIZONTAL
17943.750	57.6	-22.9	42.4	38.093	VERTICAL
17151.000	57.4	-23.7	43.0	38.113	HORIZONTAL
17961.750	57.4	-22.9	42.7	37.583	HORIZONTAL

Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	PMea (dBuV/m)	Polarization
17527.500	58.1	-22.8	42.9	37.955	VERTICAL
17511.000	57.8	-22.8	42.8	37.815	HORIZONTAL
17415.000	57.7	-23.7	42.7	38.713	VERTICAL
17025.000	57.6	-23.9	43.6	37.830	VERTICAL
17440.500	57.6	-23.7	42.7	38.583	VERTICAL
17445.750	57.5	-23.7	42.7	38.483	VERTICAL

**802.11n-HT20**

Ch1

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	PMea (dBuV/m)	Polarization
17931.750	58.5	-22.9	42.4	38.993	HORIZONTAL
17496.000	57.9	-22.8	43.0	37.645	HORIZONTAL
17536.500	57.8	-22.8	42.9	37.655	HORIZONTAL
17148.750	57.8	-23.7	42.2	39.253	VERTICAL
17769.750	57.7	-22.8	42.2	38.371	VERTICAL
17981.250	57.7	-22.9	42.3	38.323	VERTICAL

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	PMea (dBuV/m)	Polarization
17491.500	59.2	-22.8	43.0	38.945	HORIZONTAL
17383.500	57.7	-23.7	42.8	38.623	HORIZONTAL
17898.750	57.6	-22.9	42.5	37.993	HORIZONTAL
17737.500	57.5	-22.8	42.1	38.261	VERTICAL
17499.000	57.4	-22.8	43.0	37.145	HORIZONTAL
17735.250	57.3	-22.8	42.1	38.061	HORIZONTAL

Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	PMea (dBuV/m)	Polarization
17424.000	57.8	-23.7	42.7	38.813	VERTICAL
17734.500	57.7	-22.8	42.1	38.461	VERTICAL
17484.750	57.7	-22.8	43.0	37.445	HORIZONTAL
17513.250	57.4	-22.8	42.8	37.415	VERTICAL
17430.750	57.4	-23.7	42.7	38.383	HORIZONTAL
17541.750	57.3	-22.8	42.9	37.155	VERTICAL

**802.11n-HT40**

Ch3

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	PMea (dBuV/m)	Polarization
17491.500	57.9	-22.8	43.0	37.645	HORIZONTAL
17553.750	57.6	-22.8	42.3	38.125	VERTICAL
17550.750	57.5	-22.8	42.3	38.025	HORIZONTAL
17467.500	57.5	-22.8	42.6	37.685	VERTICAL
17937.750	57.4	-22.9	42.4	37.893	VERTICAL
17075.250	57.3	-23.9	42.8	38.400	VERTICAL

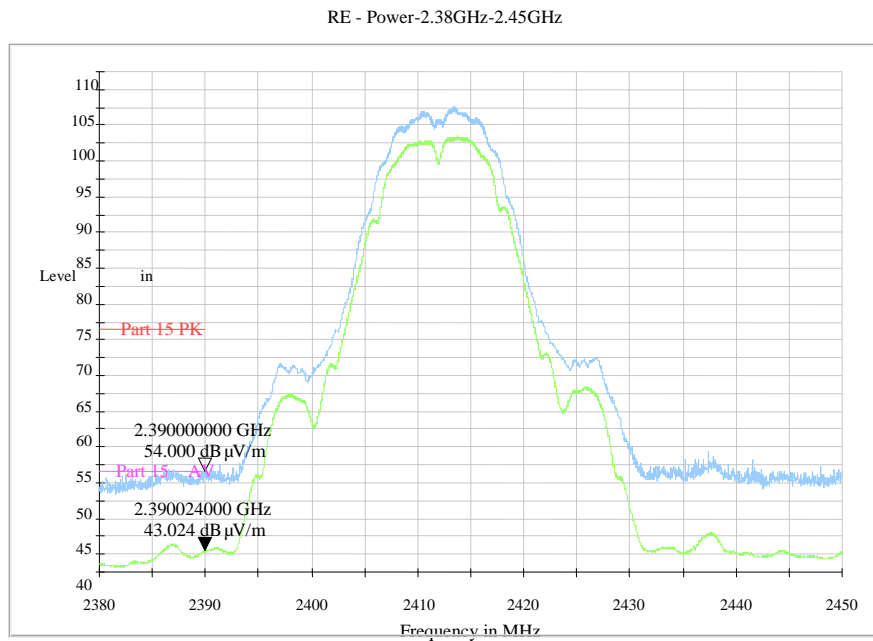
Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	PMea (dBuV/m)	Polarization
17801.250	58.0	-22.8	42.9	37.901	HORIZONTAL
17458.500	58.0	-22.8	42.6	38.185	HORIZONTAL
17603.250	57.9	-22.8	42.8	37.925	HORIZONTAL
17454.000	57.5	-23.7	42.6	38.623	VERTICAL
17667.000	57.5	-22.8	42.7	37.671	VERTICAL
17790.750	57.5	-22.8	42.0	38.391	HORIZONTAL

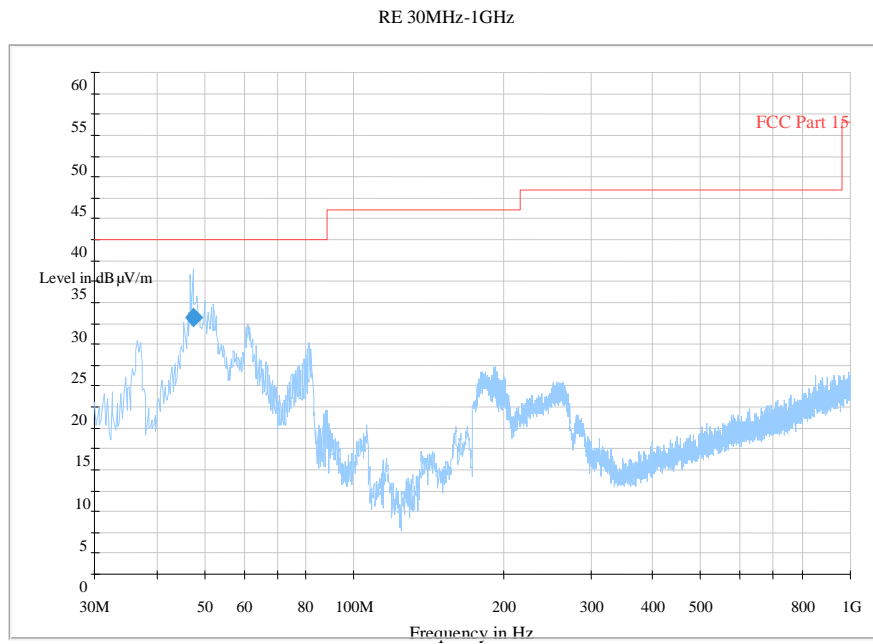
Ch9

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	PMea (dBuV/m)	Polarization
17424.000	57.8	-23.7	42.7	38.813	VERTICAL
17734.500	57.7	-22.8	42.1	38.461	VERTICAL
17484.750	57.7	-22.8	43.0	37.445	HORIZONTAL
17513.250	57.4	-22.8	42.8	37.415	VERTICAL
17430.750	57.4	-23.7	42.7	38.383	HORIZONTAL
17541.750	57.3	-22.8	42.9	37.155	VERTICAL

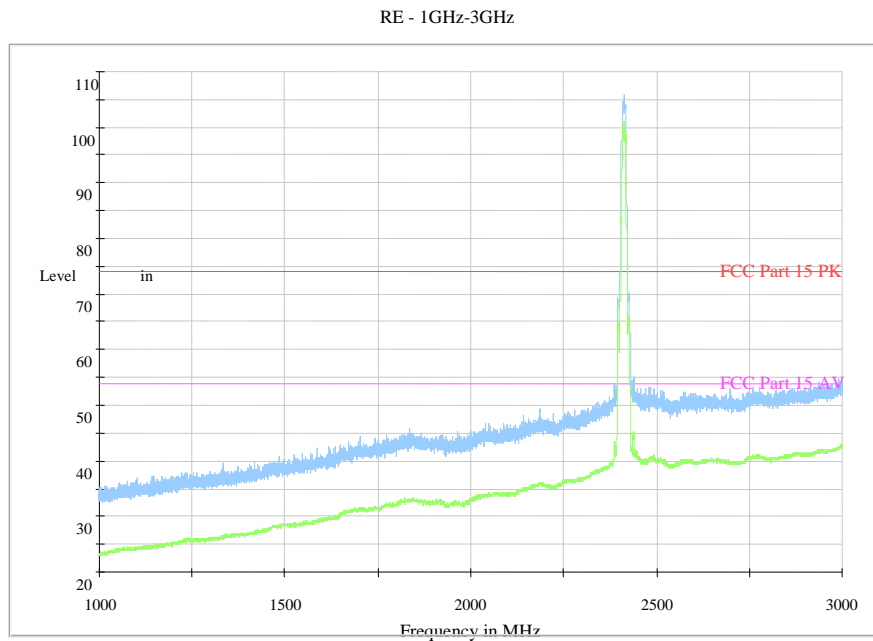
**Test graphs as below:**



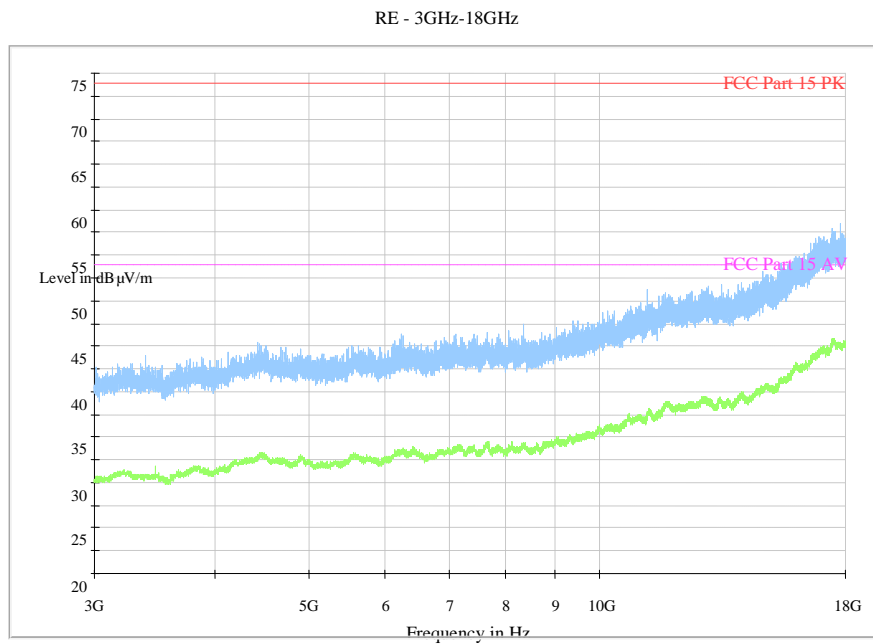
**Fig.A.6.2.1 Radiated Spurious Emission (Power): 802.11b, ch1, 2.38 GHz – 2.45GHz**



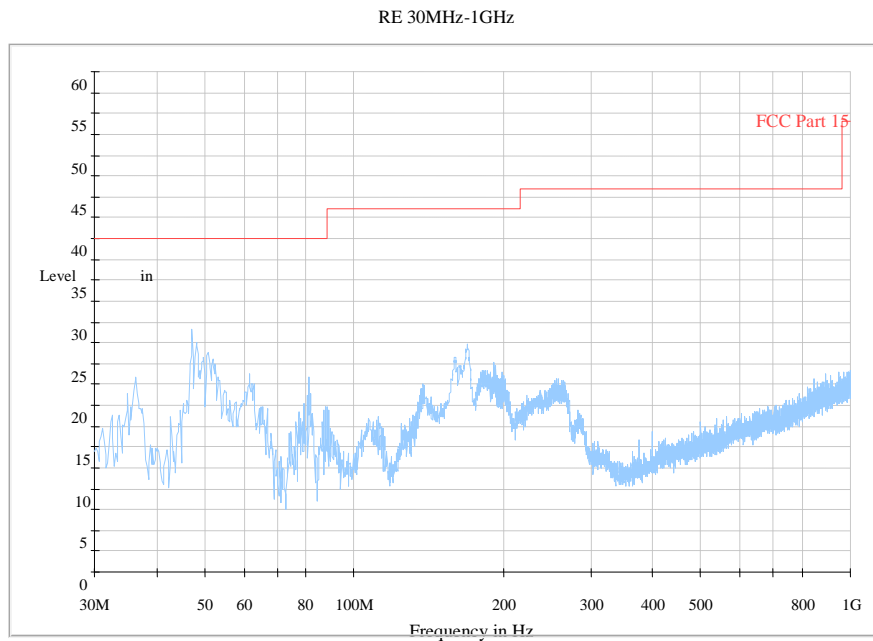
**Fig.A.6.2.2 Radiated Spurious Emission (802.11b, Ch1, 30 MHz-1 GHz)**



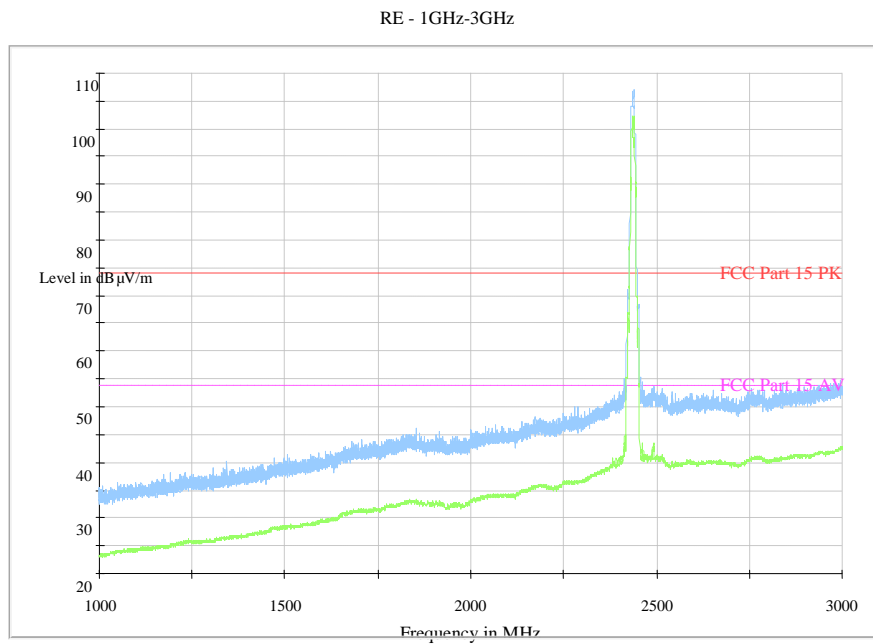
**Fig.A.6.2.3 Radiated Spurious Emission (802.11b, Ch1, 1 GHz-3 GHz)**



**Fig.A.6.2.4 Radiated Spurious Emission (802.11b, Ch1, 3 GHz-18 GHz)**

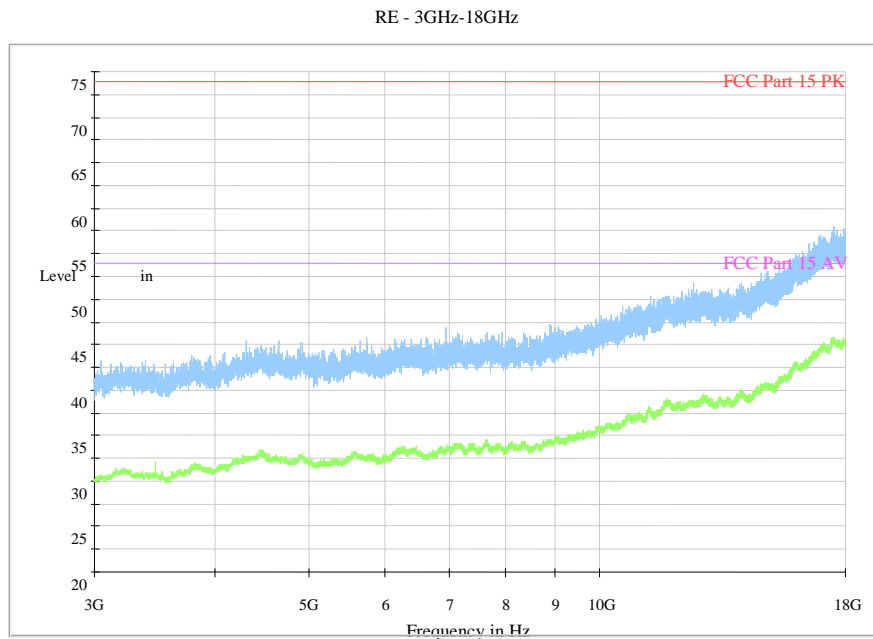


**Fig.A.6.2.5 Radiated Spurious Emission (802.11b, Ch6, 30 MHz-1 GHz)**

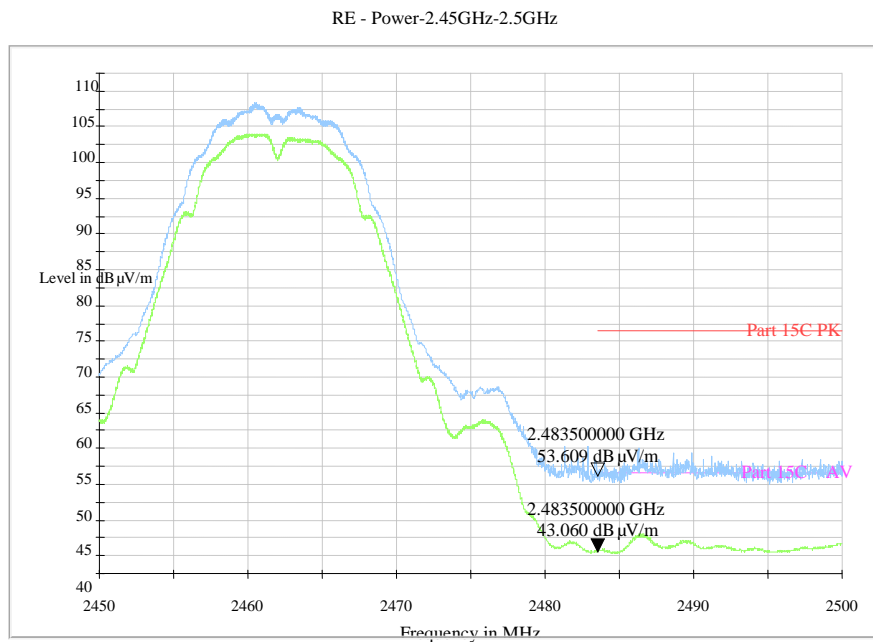


**Fig.A.6.2.6 Radiated Spurious Emission (802.11b, Ch6, 1 GHz-3 GHz)**

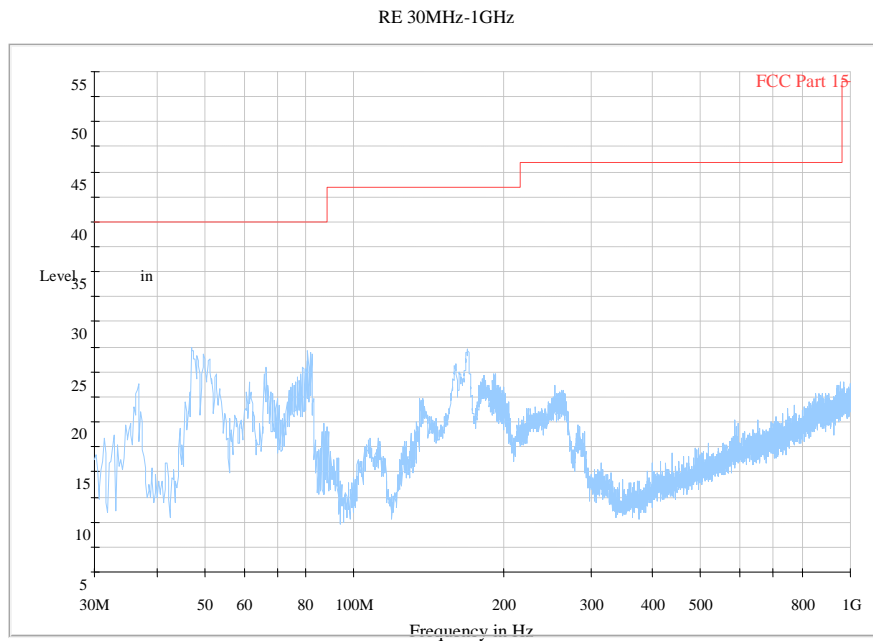




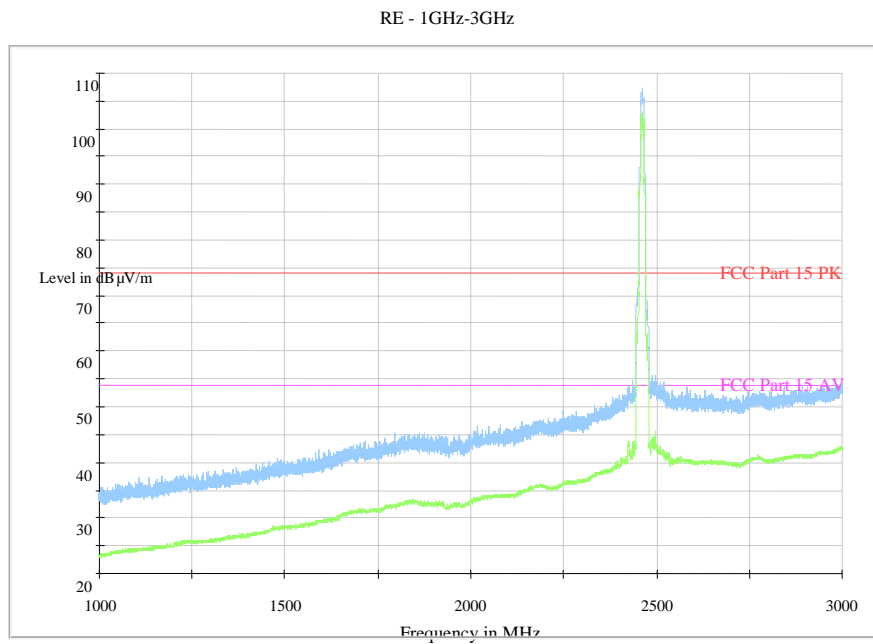
**Fig.A.6.2.7 Radiated Spurious Emission (802.11b, Ch6, 3 GHz-18 GHz)**



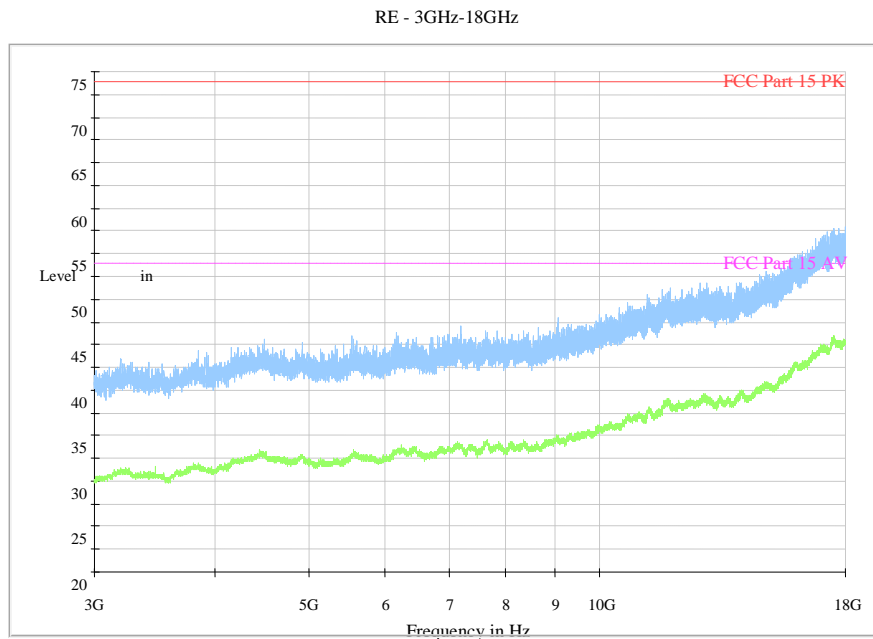
**Fig.A.6.2.8 Radiated Spurious Emission (Power): 802.11b, ch11, 2.45 GHz - 2.50GHz**



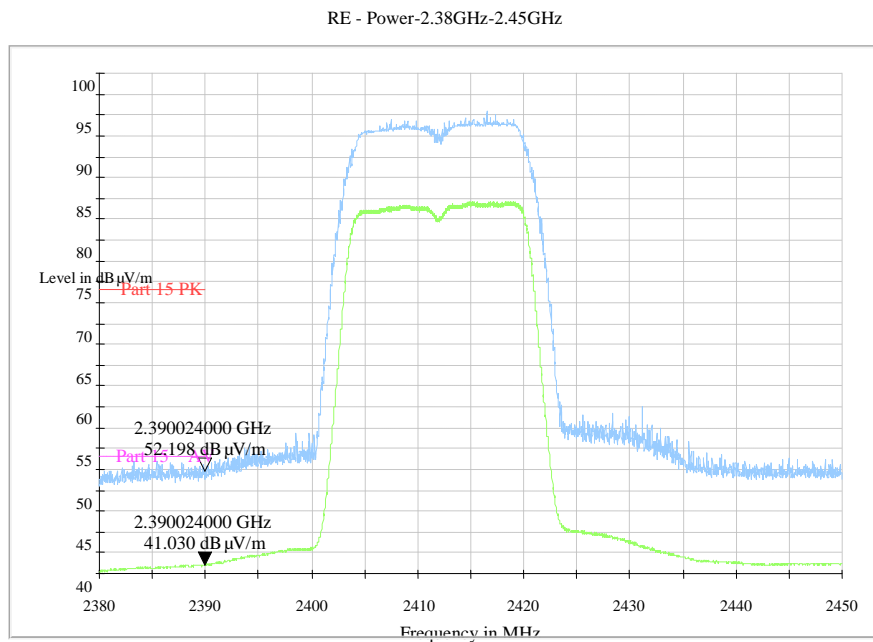
**Fig.A.6.2.9 Radiated Spurious Emission (802.11b, Ch11, 30 MHz-1 GHz)**



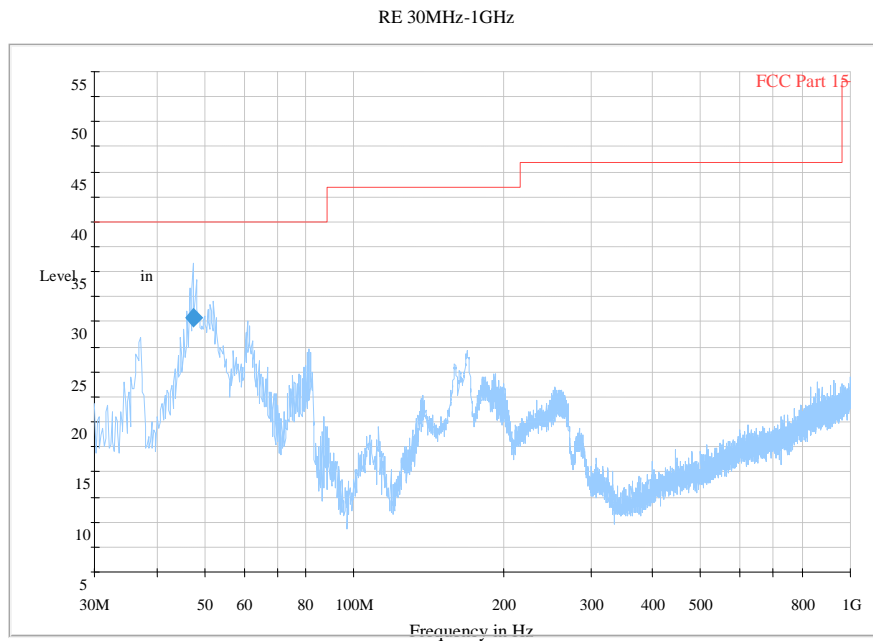
**Fig.A.6.2.10 Radiated Spurious Emission (802.11b, Ch11, 1 GHz-3 GHz)**



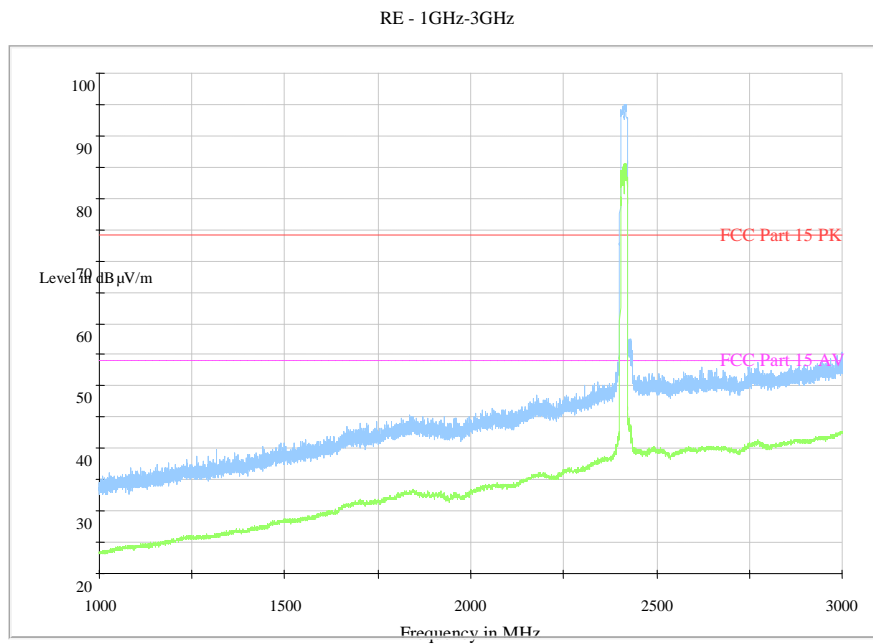
**Fig.A.6.2.11 Radiated Spurious Emission (802.11b, Ch11, 3 GHz-18 GHz)**



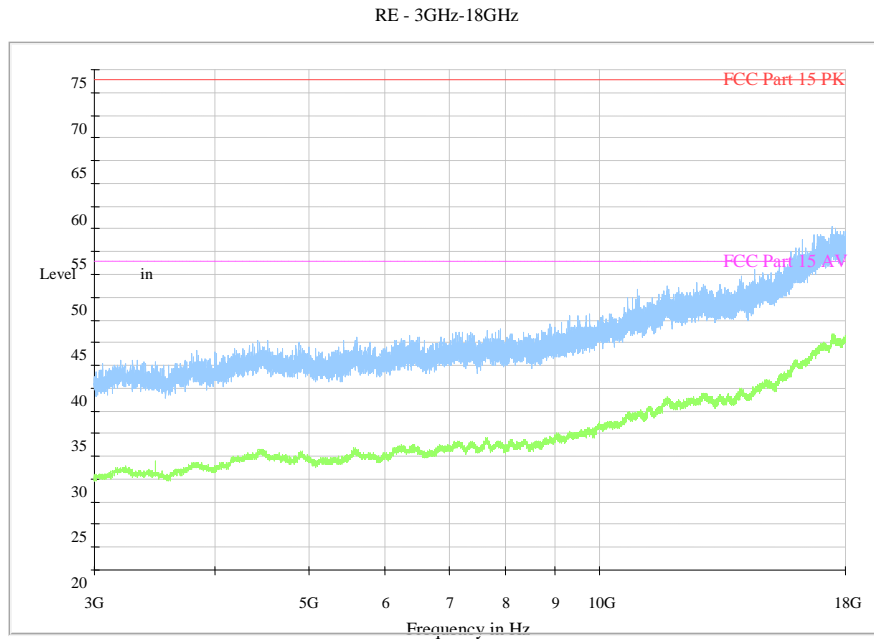
**Fig.A.6.2.12 Radiated Spurious Emission (Power): 802.11g, ch1, 2.38 GHz - 2.45GHz**



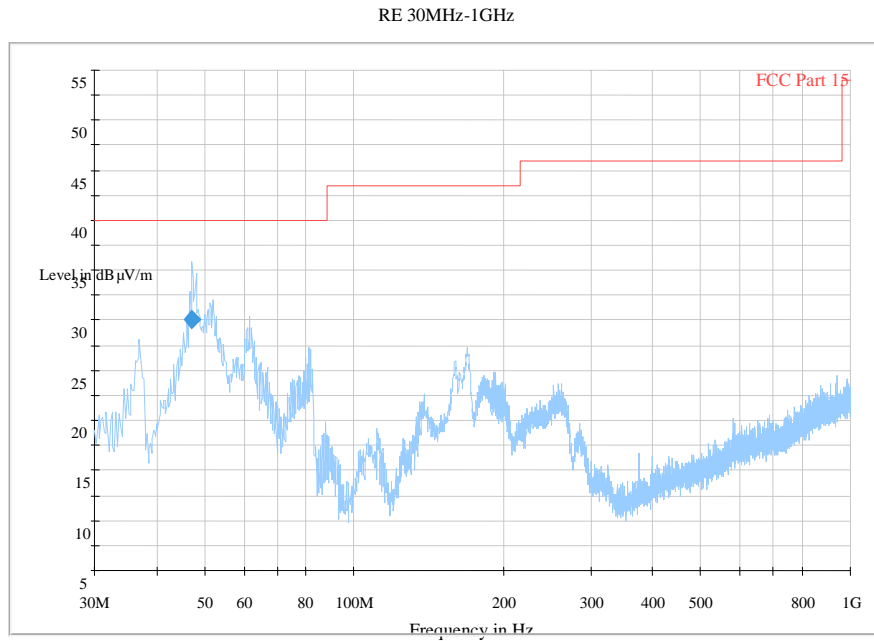
**Fig.A.6.2.13 Radiated Spurious Emission (802.11g, Ch1, 30 MHz-1 GHz)**



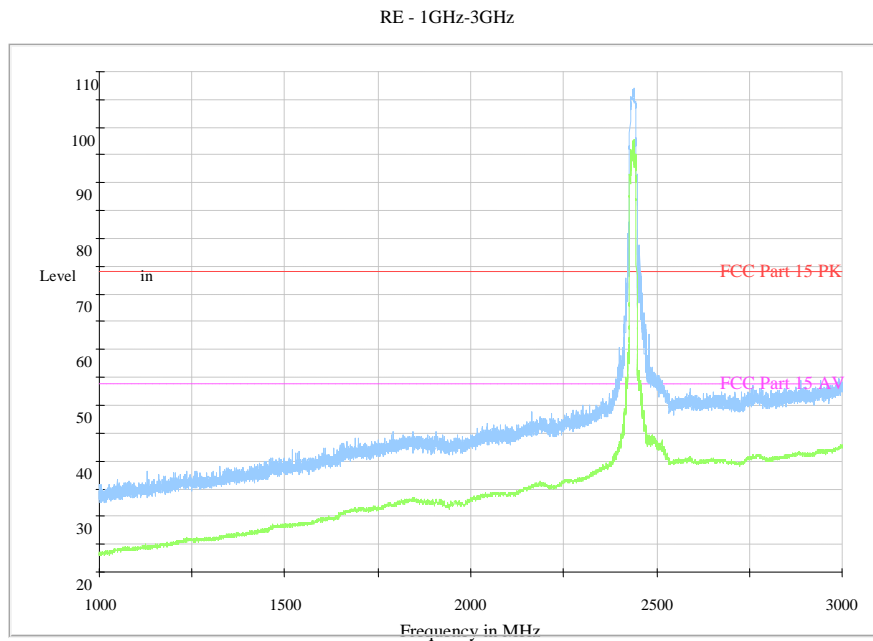
**Fig.A.6.2.14 Radiated Spurious Emission (802.11g, Ch1, 1 GHz-3 GHz)**



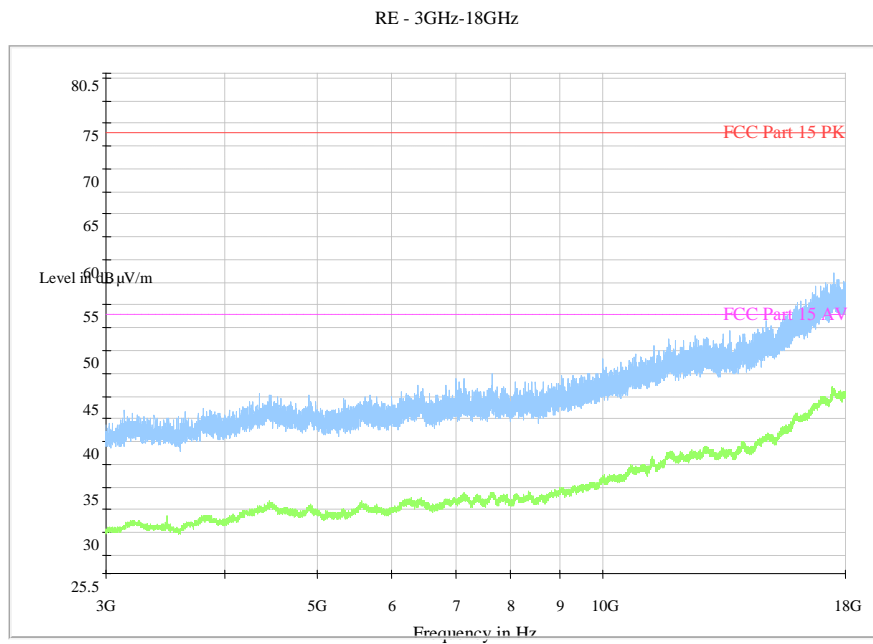
**Fig.A.6.2.15 Radiated Spurious Emission (802.11g, Ch1, 3 GHz-18 GHz)**



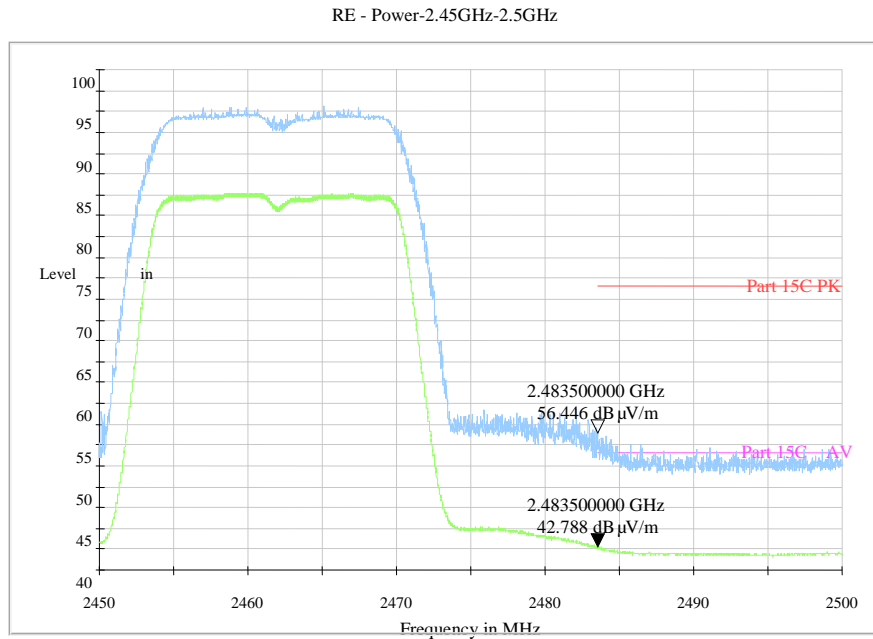
**Fig.A.6.2.16 Radiated Spurious Emission (802.11g, Ch6, 30 MHz-1 GHz)**



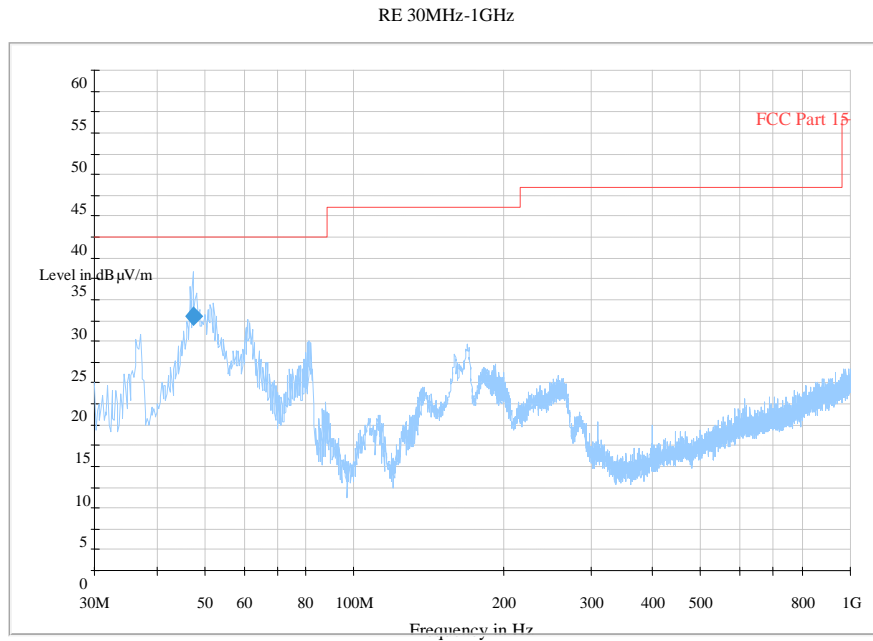
**Fig.A.6.2.17 Radiated Spurious Emission (802.11g, Ch6, 1 GHz-3 GHz)**



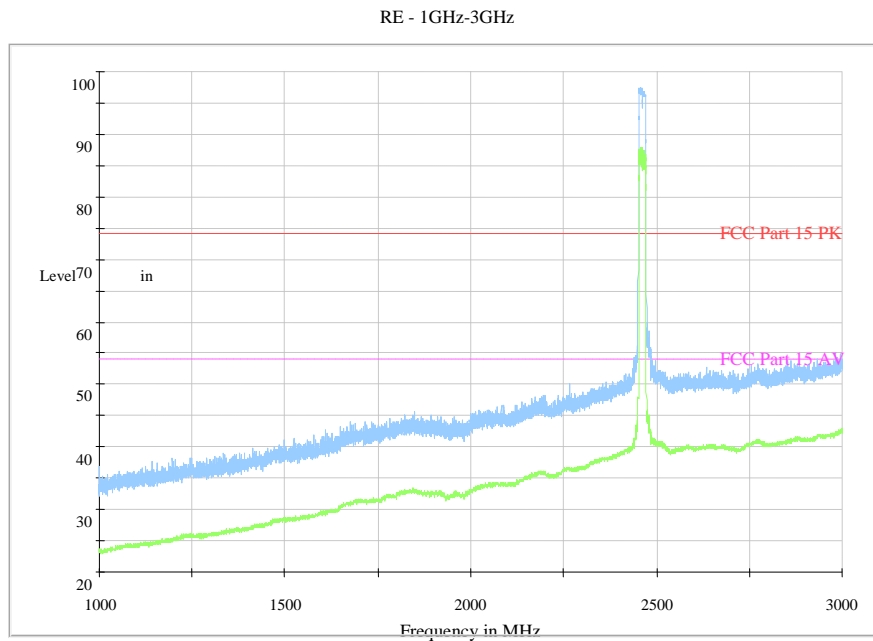
**Fig.A.6.2.18 Radiated Spurious Emission (802.11g, Ch6, 3 GHz-18 GHz)**



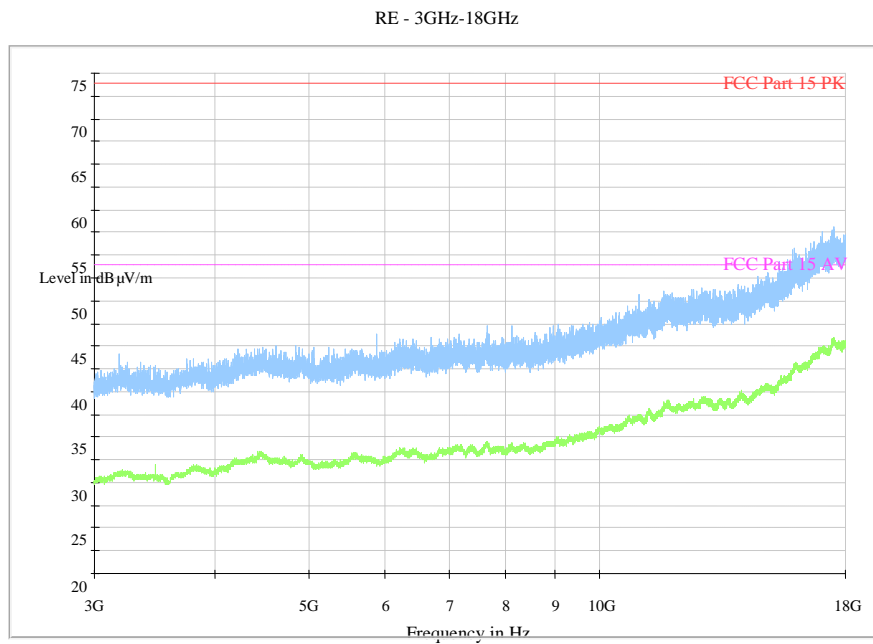
**Fig.A.6.2.19 Radiated Spurious Emission (Power): 802.11g, ch11, 2.45 GHz - 2.50GHz**



**Fig.A.6.2.20 Radiated Spurious Emission (802.11g, Ch11, 30 MHz-1 GHz)**

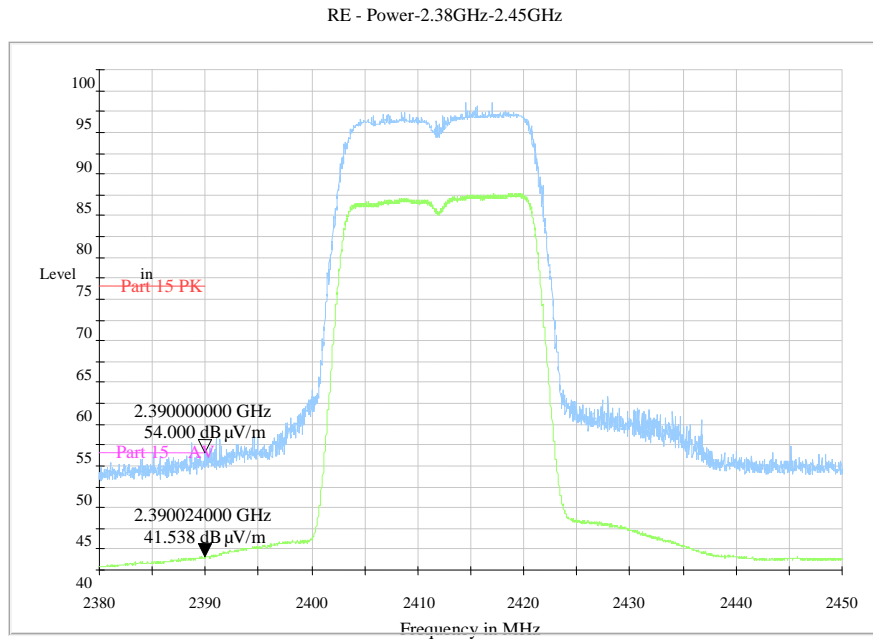


**Fig.A.6.2.21 Radiated Spurious Emission (802.11g, Ch11, 1 GHz-3 GHz)**

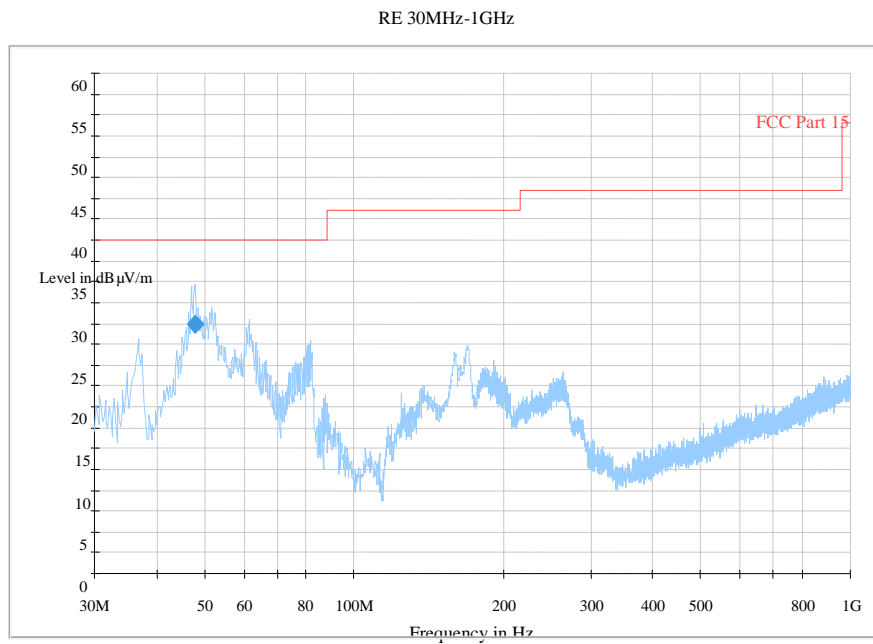


**Fig.A.6.2.22 Radiated Spurious Emission (802.11g, Ch11, 3 GHz-18 GHz)**

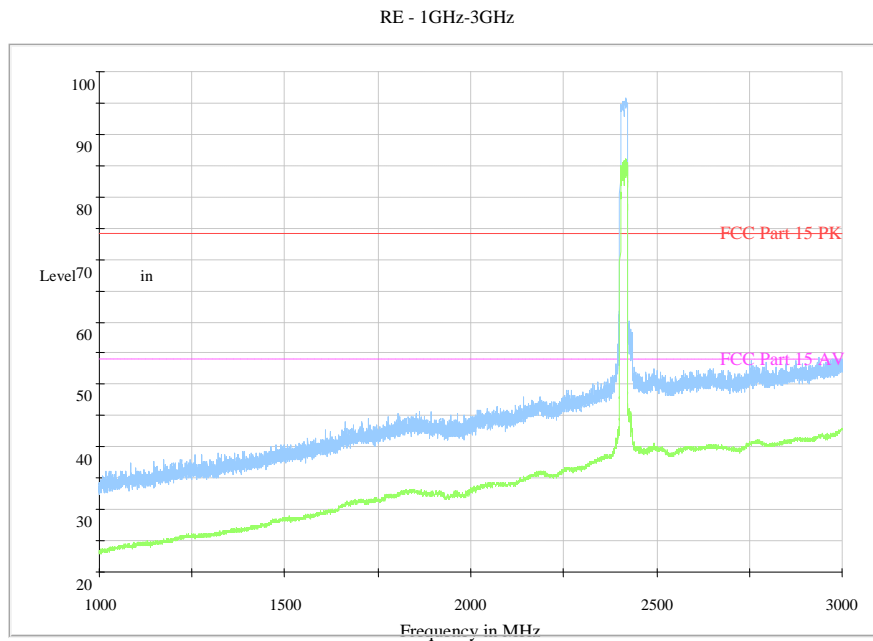




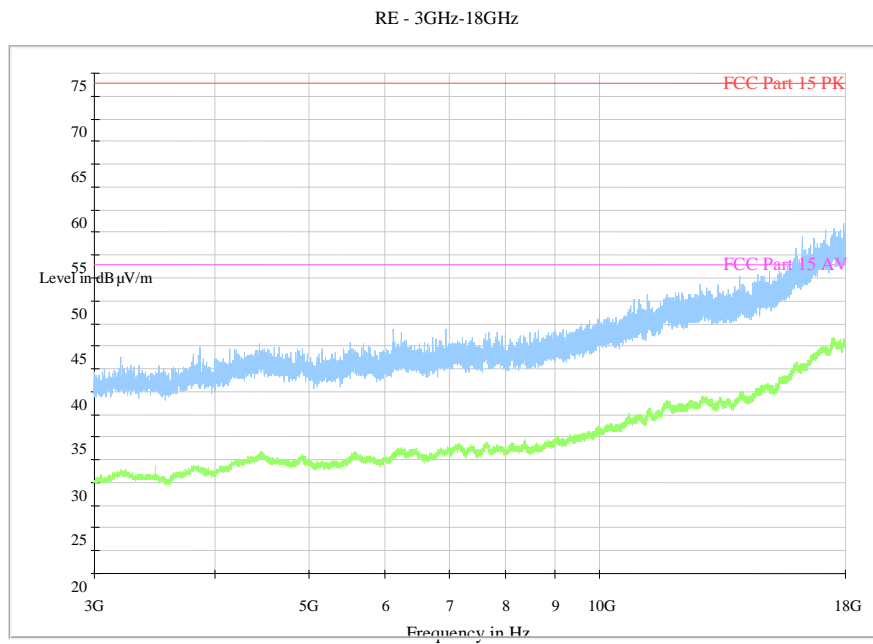
**Fig.A.6.2.23 Radiated Spurious Emission (Power): 802.11n-HT20, ch1, 2.38 GHz - 2.45GHz**



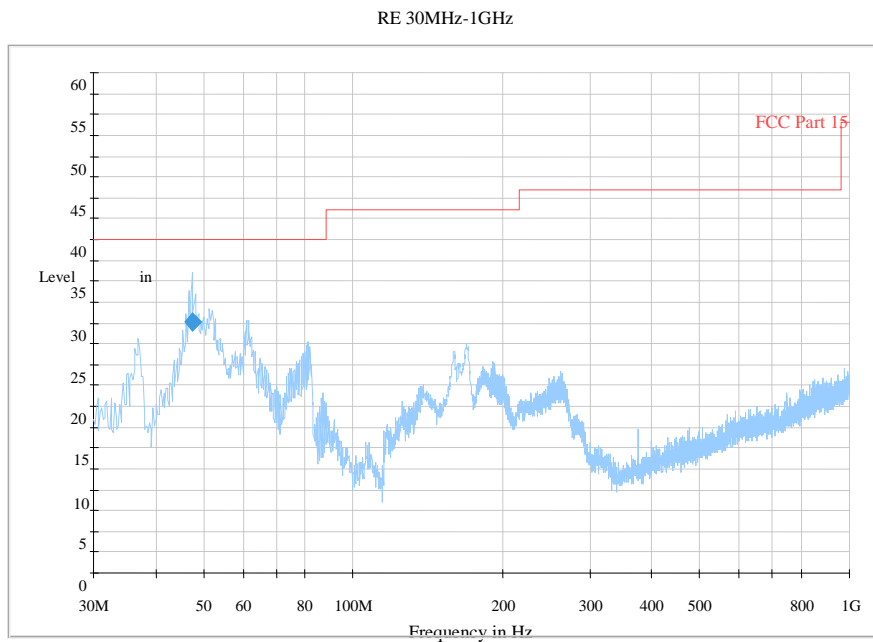
**Fig.A.6.2.24 Radiated Spurious Emission (802.11n-HT20, Ch1, 30 MHz-1 GHz)**



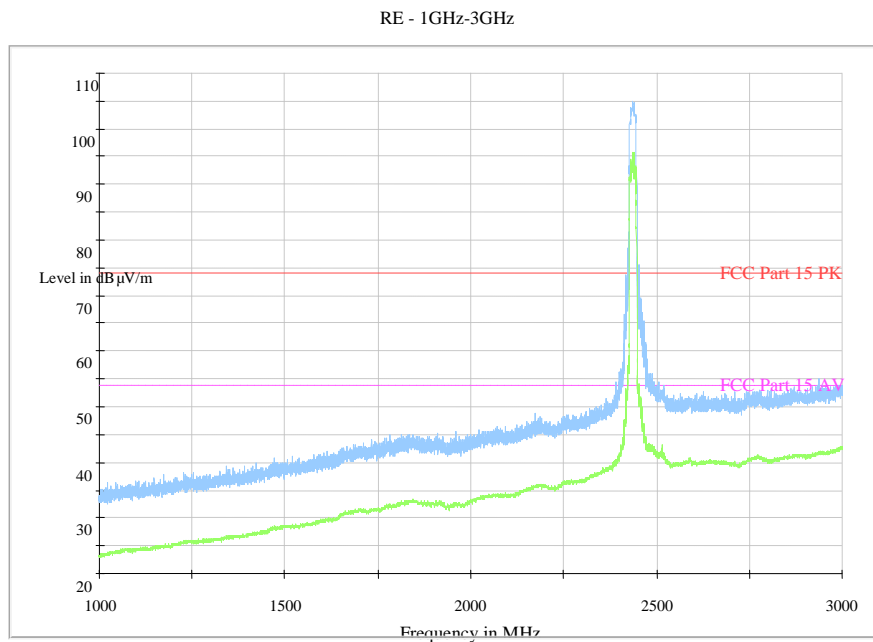
**Fig.A.6.2.25 Radiated Spurious Emission (802.11n-HT20, Ch1, 1 GHz-3 GHz)**



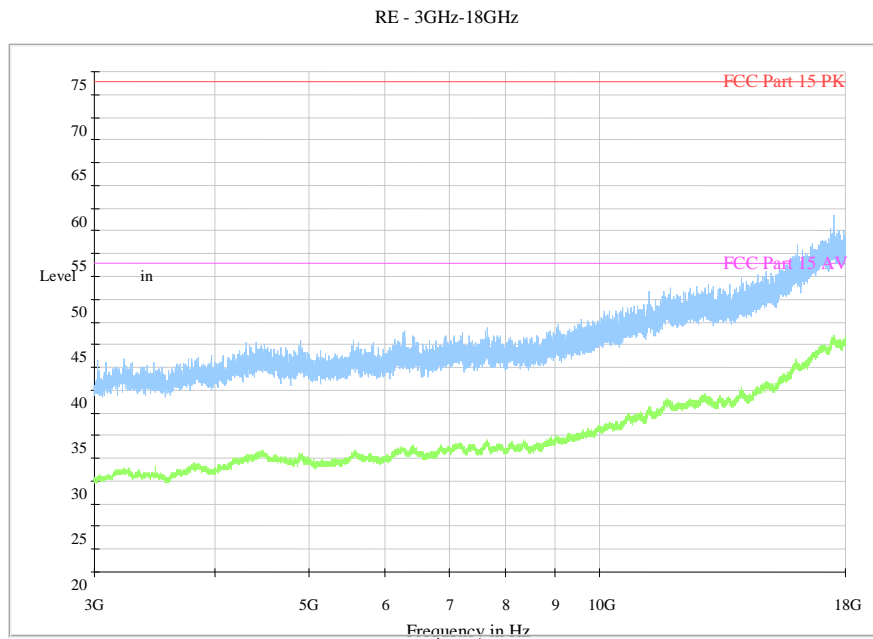
**Fig.A.6.2.26 Radiated Spurious Emission (802.11n-HT20, Ch1, 3 GHz-18 GHz)**



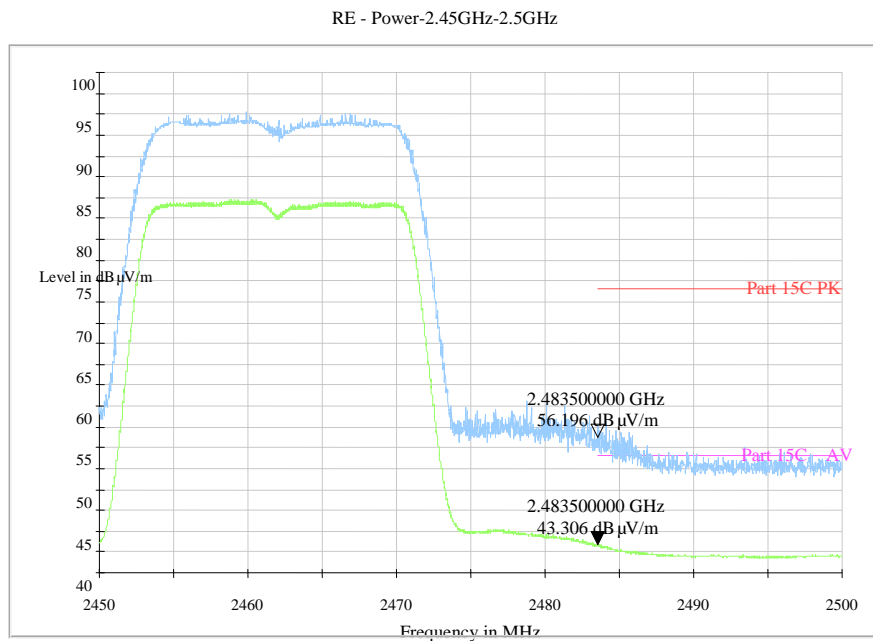
**Fig.A.6.2.27 Radiated Spurious Emission (802.11n-HT20, Ch6, 30 MHz-1 GHz)**



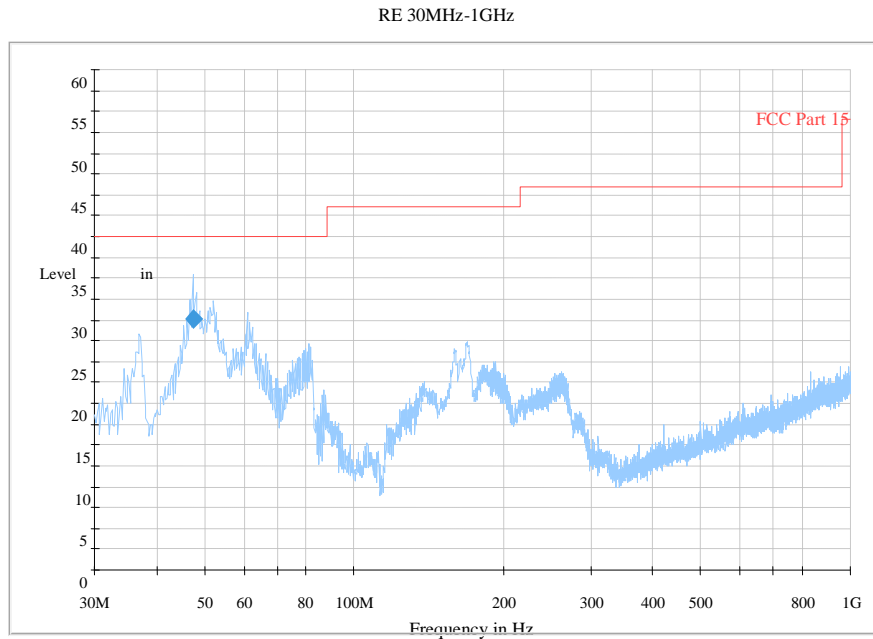
**Fig.A.6.2.28 Radiated Spurious Emission (802.11n-HT20, Ch6, 1 GHz-3 GHz)**



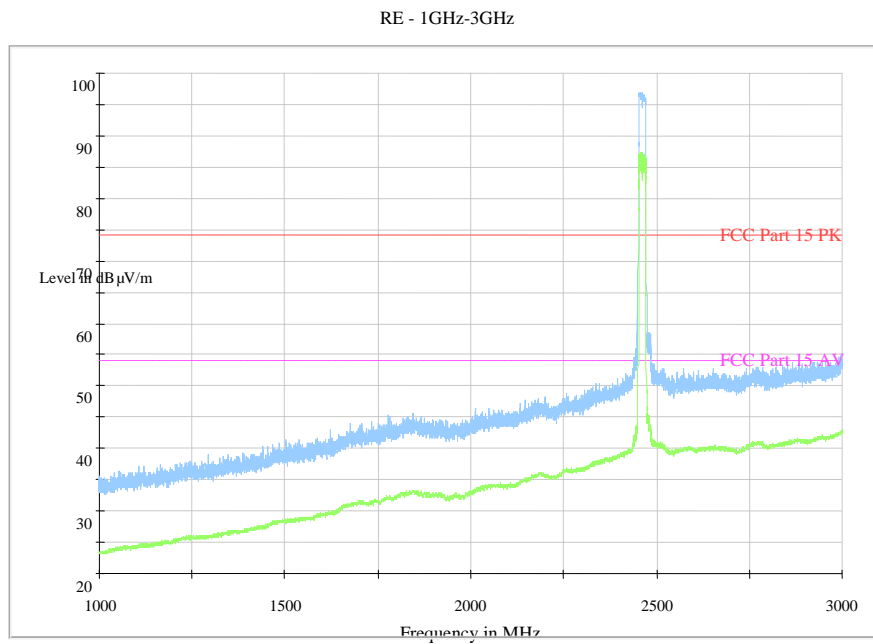
**Fig.A.6.2.29 Radiated Spurious Emission (802.11n-HT20, Ch6, 3 GHz-18 GHz)**



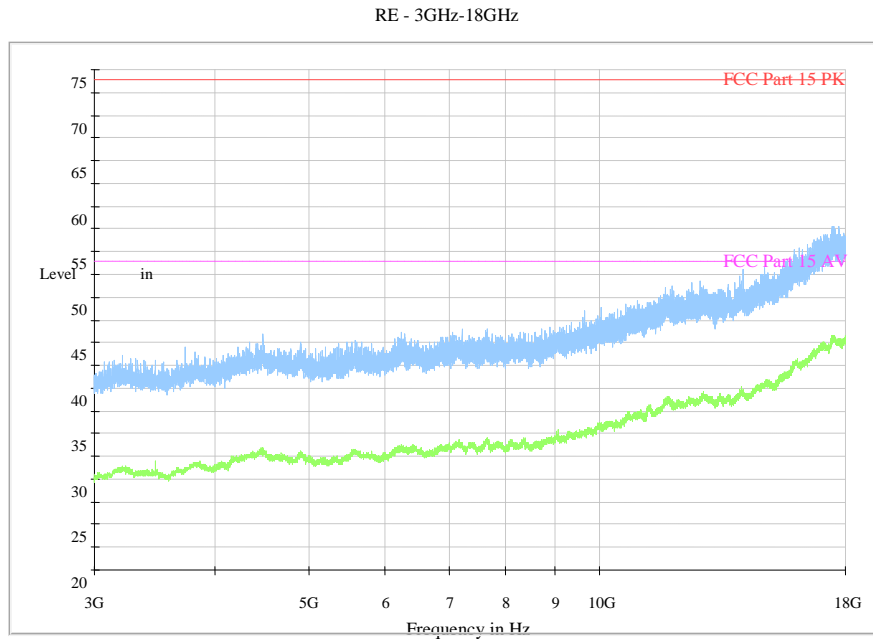
**Fig.A.6.2.30 Radiated Spurious Emission (Power): 802.11n-HT20, ch11, 2.45 GHz - 2.50GHz**



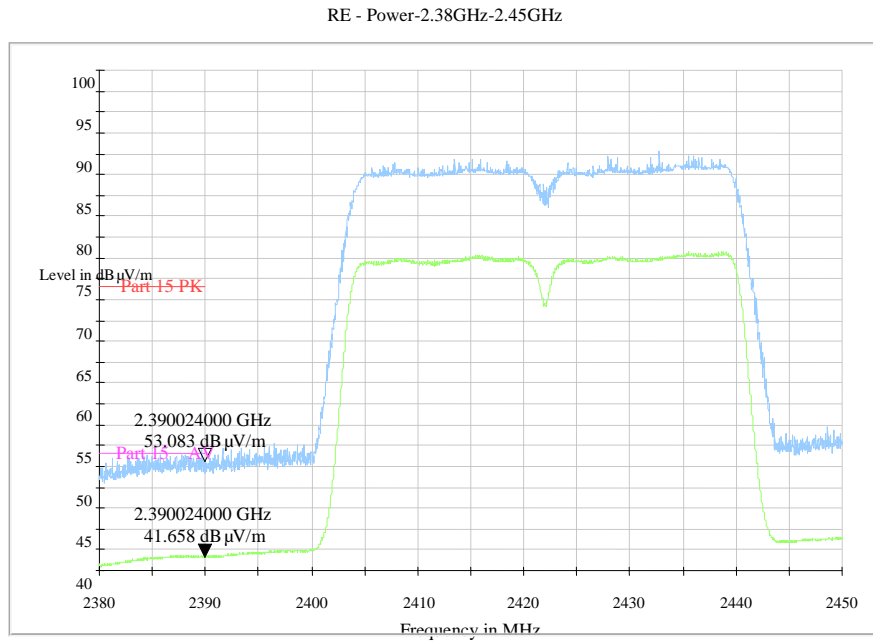
**Fig.A.6.2.31 Radiated Spurious Emission (802.11n-HT20, Ch11, 30 MHz-1 GHz)**



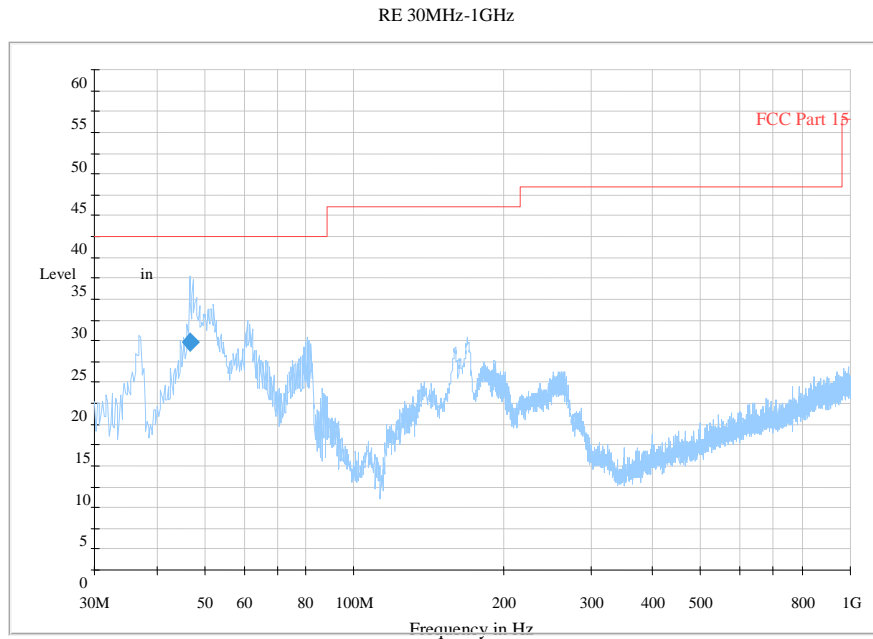
**Fig.A.6.2.32 Radiated Spurious Emission (802.11n-HT20, Ch11, 1 GHz-3 GHz)**



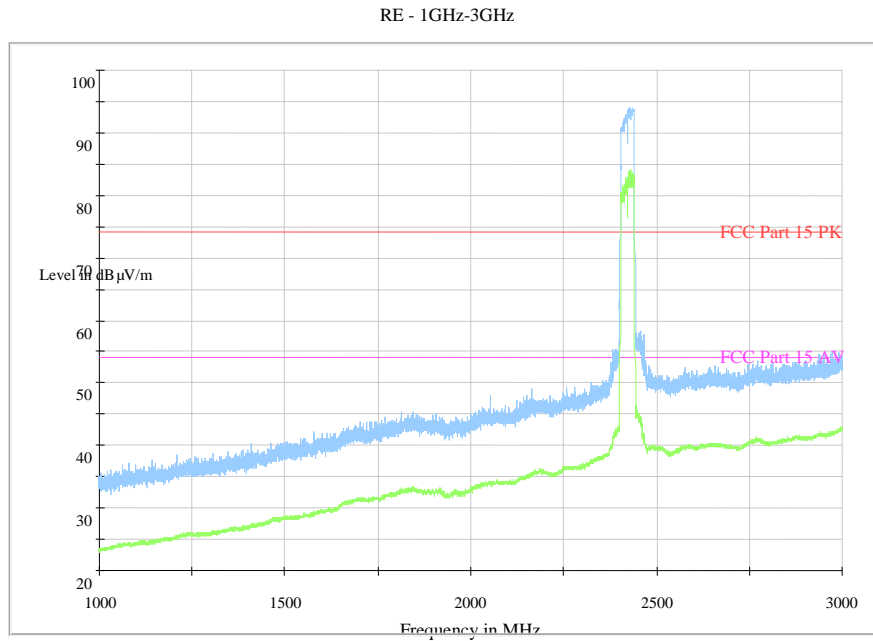
**Fig.A.6.2.33 Radiated Spurious Emission (802.11n-HT20, Ch11, 3 GHz-18 GHz)**



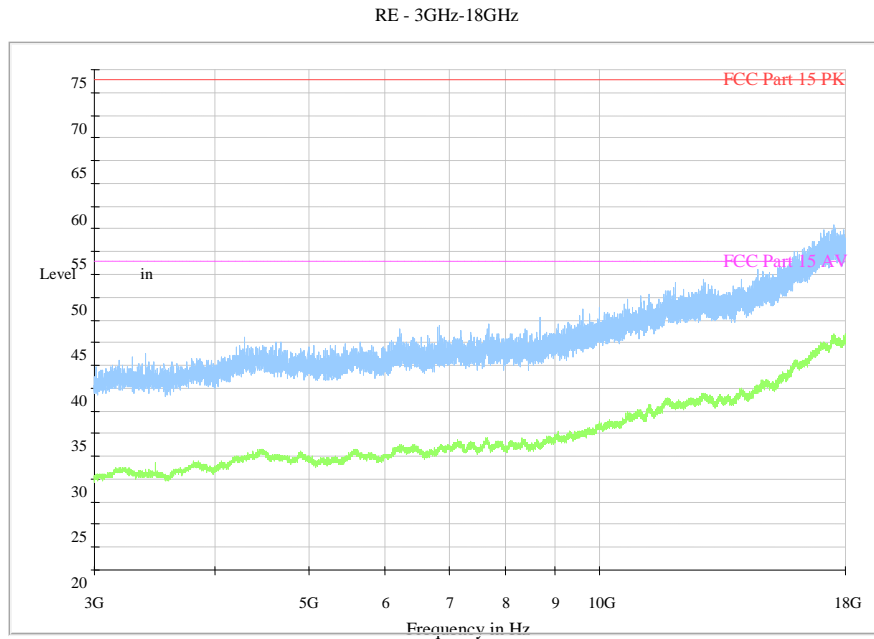
**Fig.A.6.2.34 Radiated Spurious Emission (Power): 802.11n-HT40, ch3, 2.38 GHz - 2.45GHz**



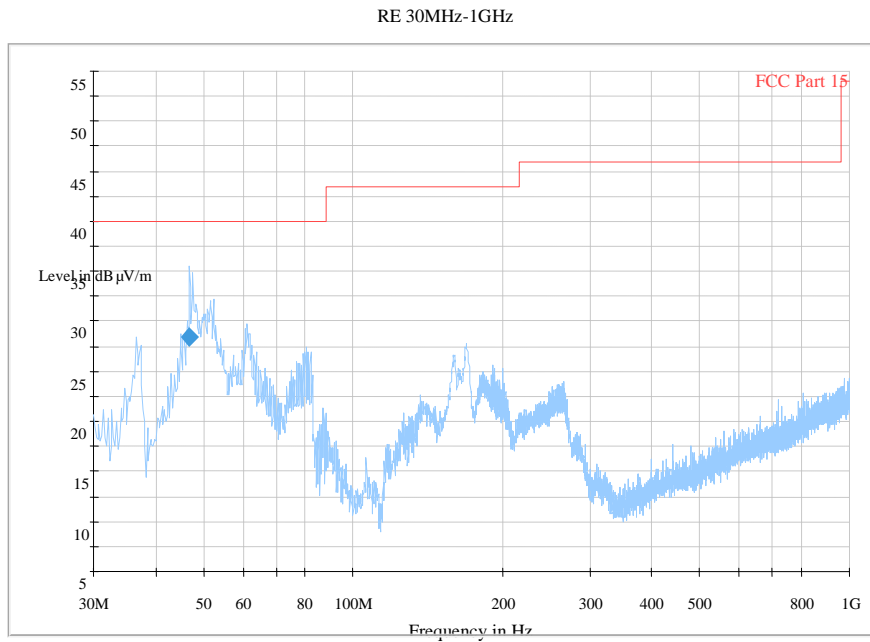
**Fig.A.6.2.35 Radiated Spurious Emission (802.11n-HT40, ch3, 30 MHz-1 GHz)**



**Fig.A.6.2.36 Radiated Spurious Emission (802.11n-HT40, ch3, 1 GHz-3 GHz)**

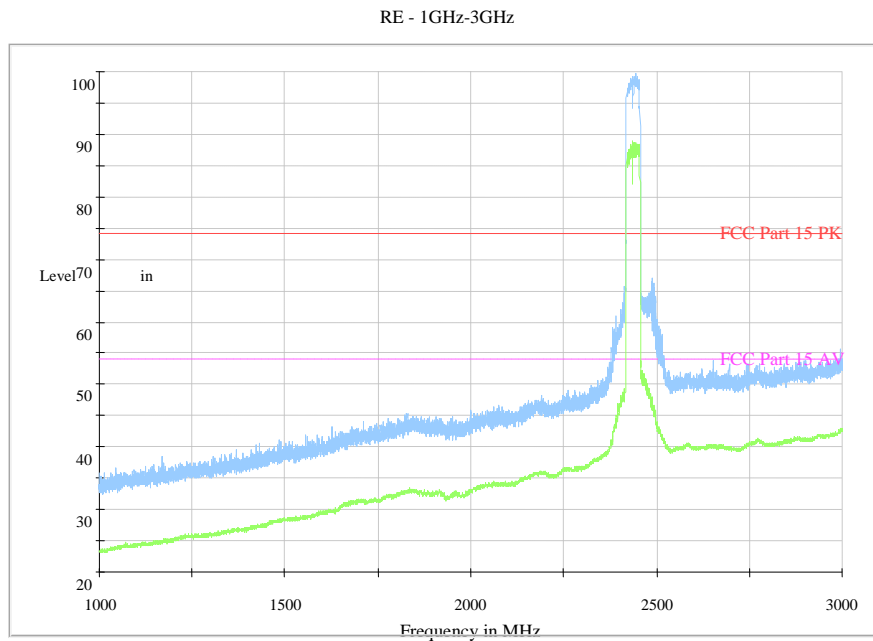


**Fig.A.6.2.37 Radiated Spurious Emission (802.11n-HT40, ch3, 3 GHz-18 GHz)**

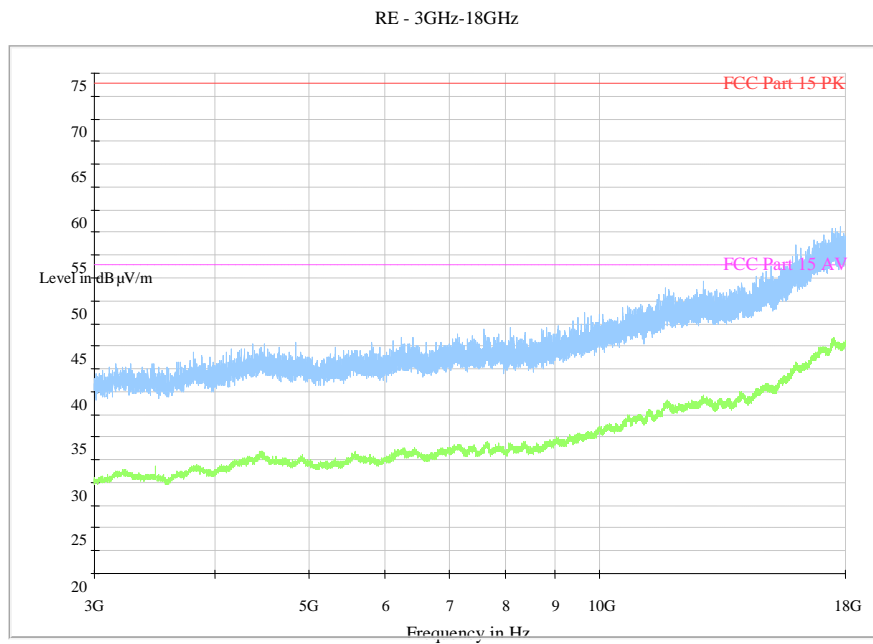


**Fig.A.6.2.38 Radiated Spurious Emission (802.11n-HT40, Ch6, 30 MHz-1 GHz)**

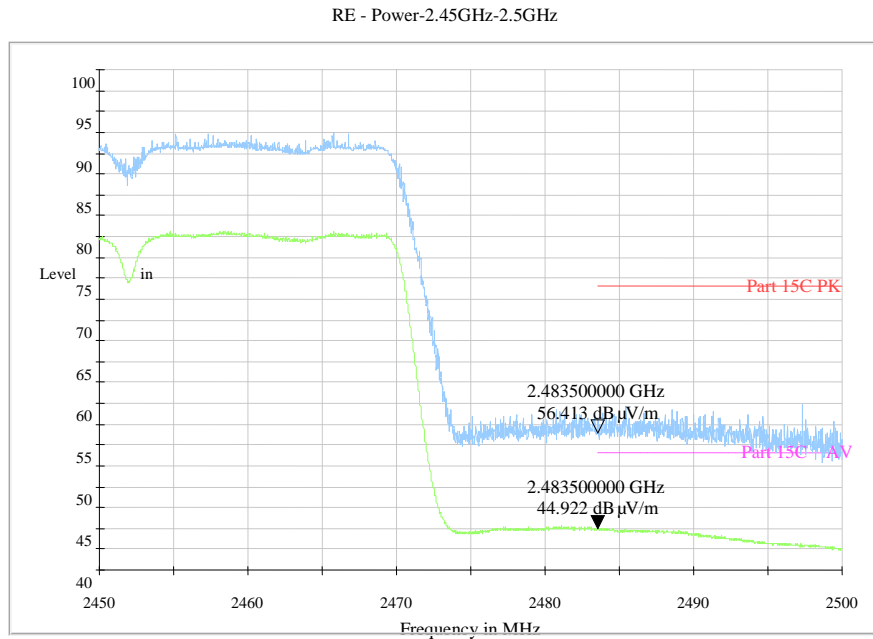




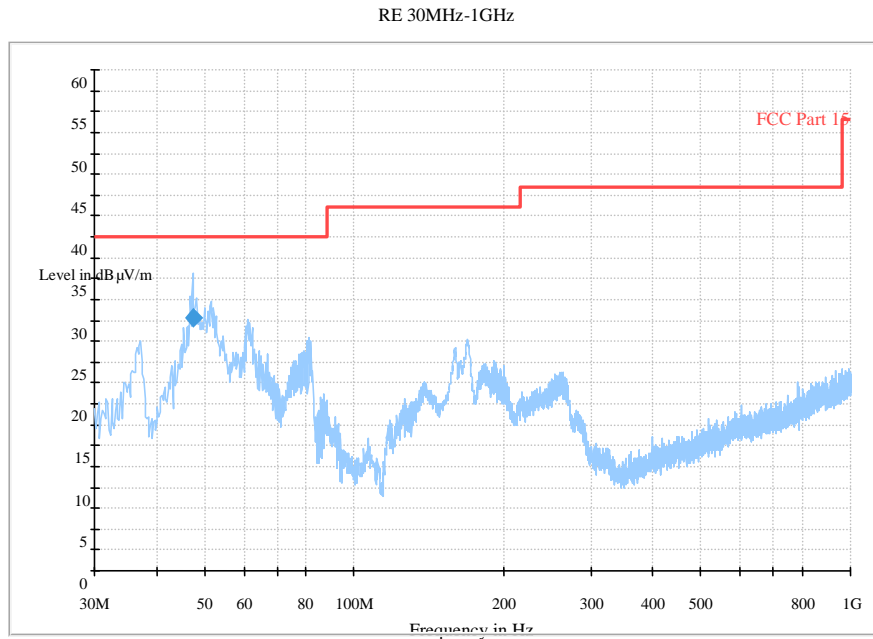
**Fig.A.6.2.39 Radiated Spurious Emission (802.11n-HT40, Ch6, 1 GHz-3 GHz)**



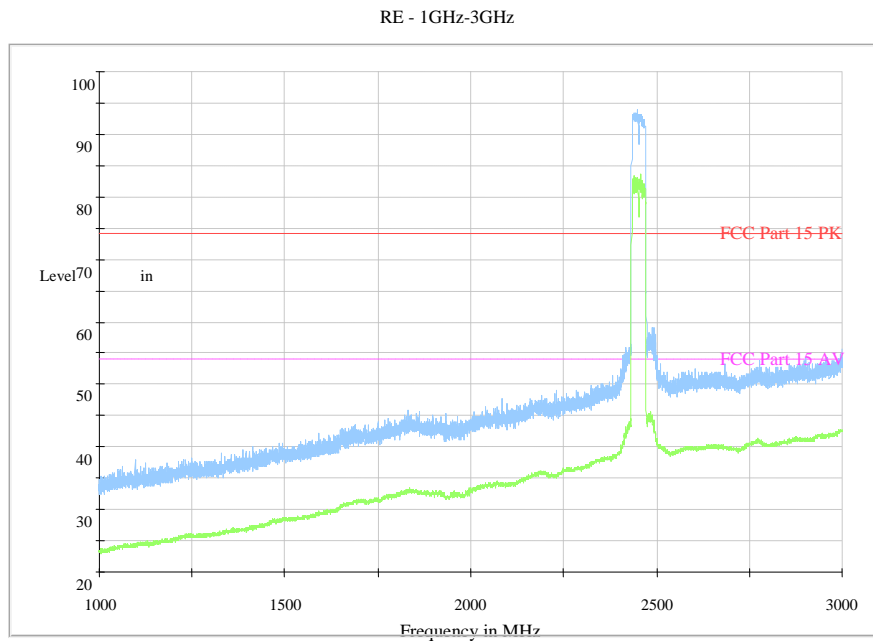
**Fig.A.6.2.40 Radiated Spurious Emission (802.11n-HT40, Ch6, 3 GHz-18 GHz)**



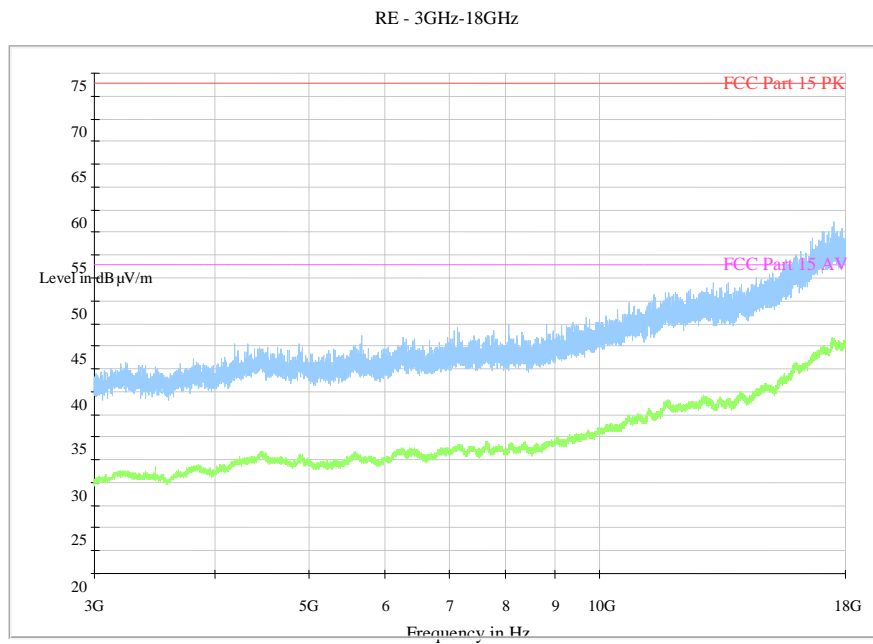
**Fig.A.6.2.41 Radiated Spurious Emission (Power): 802.11n-HT40, ch9, 2.45 GHz - 2.50GHz**



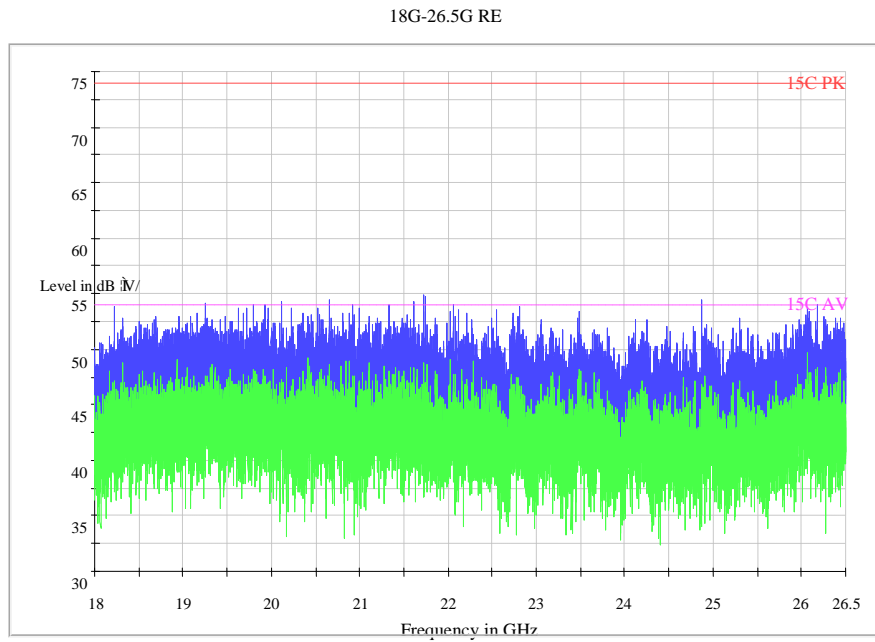
**Fig.A.6.2.42 Radiated Spurious Emission (802.11n-HT40, ch9, 30 MHz-1 GHz)**



**Fig.A.6.2.43 Radiated Spurious Emission (802.11n-HT40, ch9, 1 GHz-3 GHz)**



**Fig.A.6.2.44 Radiated Spurious Emission (802.11n-HT40, ch9, 3 GHz-18 GHz)**



**Fig.A.6.2.45 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 $\mu$ V)	Result (dB $\mu$ V)		Conclusion
		With charger		
		802.11b	Idle	
0.15 to 0.5	66 to 56	Fig.A.7.1	Fig.A.7.2	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 $\mu$ V)	Result (dB $\mu$ V)		Conclusion
		With charger		
		802.11b	Idle	
0.15 to 0.5	56 to 46	Fig.A.7.1	Fig.A.7.2	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.

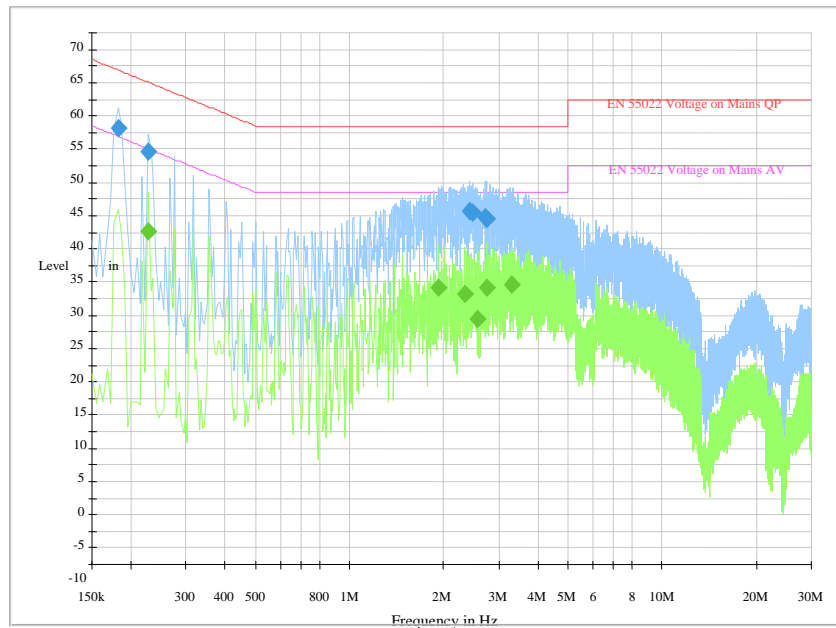
The measurement is made according to KDB558074.

**Conclusion: Pass**

### Measurement uncertainty:

Expanded measurement uncertainty for this test item is  $U = 3.2\text{dB}$ ,  $k=2$ .

Test graphs as below:



**Fig.A.7.1 AC Powerline Conducted Emission-802.11b**

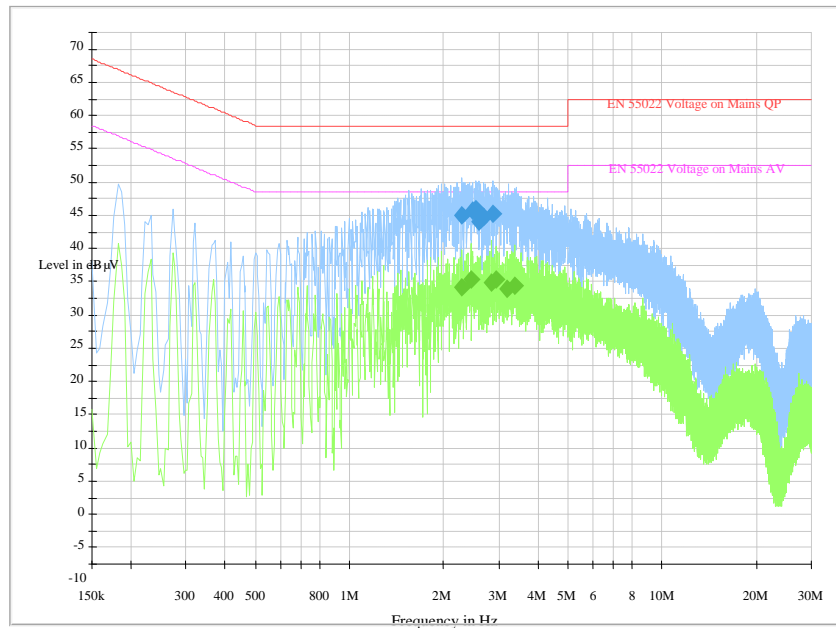
Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dB $\mu$ V)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V)
0.181501	55.6	GND	N	9.9	8.8	64.4
0.226501	52.1	GND	N	9.9	10.4	62.6
2.422501	43.1	GND	N	9.9	12.9	56.0
2.467501	42.9	GND	N	9.9	13.1	56.0
2.715001	42.2	GND	N	9.9	13.8	56.0
2.733001	42.1	GND	N	9.9	13.9	56.0

Final Result 2

Frequency (MHz)	CAverage (dB $\mu$ V)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V)
0.226501	40.0	GND	N	9.9	12.6	52.6
1.918501	31.7	GND	N	9.9	14.3	46.0
2.328001	30.8	GND	N	9.9	15.2	46.0
2.562001	27.0	GND	N	9.9	19.0	46.0
2.733001	31.7	GND	N	9.9	14.3	46.0
3.309001	32.1	GND	N	9.9	13.9	46.0



**Fig.A.7.2 AC Powerline Conducted Emission- Idle**

Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
2.296501	42.5	GND	N	9.9	13.5	56.0
2.481001	43.1	GND	N	9.9	12.9	56.0
2.530501	43.3	GND	N	9.9	12.7	56.0
2.607001	41.6	GND	N	9.9	14.4	56.0
2.683501	42.2	GND	N	9.9	13.8	56.0
2.872501	42.7	GND	N	9.9	13.3	56.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
2.296501	31.6	GND	N	9.9	14.4	46.0
2.436001	32.8	GND	N	9.9	13.2	46.0
2.841001	32.2	GND	N	9.9	13.8	46.0
2.949001	32.8	GND	N	9.9	13.2	46.0
3.183001	31.5	GND	N	9.9	14.5	46.0
3.385501	32.0	GND	N	9.9	14.0	46.0

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