



FCC PART 15 SUBPART C TEST REPORT

FCC PART 15.247

Report Reference No.: WE10100019

FCC ID.: QISHG655B

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Date of issue: Dec 14, 2010

Testing Laboratory Name: Shenzhen Huatongwei International Inspection Co., Ltd

Address: Keji Nan No.12 Road, Hi-tech Park, Shenzhen, China

Applicant's name: Huawei Technologies Co., Ltd.

Address: Administration Building, Huawei Base, Bantian, Longgang District, Shenzhen 518129 P.R.C.

Test specification:

Standard: FCC Part 15.247: Operation within the bands 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz Direct Sequence System

TRF Originator: Shenzhen Huatongwei International Inspection CO., Ltd

Master TRF: Dated 2006-06

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Test item description: Home Gateway

Trade Mark:



Model/Type reference: HUAWEI HG655b

Frequency Range: From 2412 MHz to 2462 MHz

Listed Models: /

Result: Positive

TEST REPORT

Test Report No. : WE10100019	Dec 14,2010 Date of issue
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Equipment under Test : Home Gateway

Model /Type : HUAWEI HG655b

Listed Models : /

Applicant : **Huawei Technologies Co.,Ltd.**

Address : Administration Building,Huawei Base,Bantian,Longgang District,Shenzhen 518129 P.R.C.

Manufacturer **Huawei Technologies Co.,Ltd.**

Address : Administration Building,Huawei Base,Bantian,Longgang District,Shenzhen 518129 P.R.C.

Test Result according to the standards on page 4:	Positive
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The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Contents

<u>1.</u>	<u>TEST STANDARDS</u>	<u>4</u>
<u>2.</u>	<u>SUMMARY</u>	<u>5</u>
2.1.	General Remarks	5
2.2.	Equipment Under Test	5
2.3.	Short description of the Equipment under Test (EUT)	5
2.4.	EUT operation mode	5
2.5.	EUT configuration	6
2.6.	Related Submittal(s) / Grant (s)	6
2.7.	Modifications	6
2.8.	NOTE	6
<u>3.</u>	<u>TEST ENVIRONMENT</u>	<u>7</u>
3.1.	Address of the test laboratory	7
3.2.	Test Facility	7
3.3.	Environmental conditions	8
3.4.	Configuration of Tested System	8
3.5.	Test Description	9
3.6.	Statement of the measurement uncertainty	10
3.7.	Equipments Used during the Test	10
<u>4.</u>	<u>TEST CONDITIONS AND RESULTS</u>	<u>12</u>
4.1.	AC Power Conducted Emission	12
4.2.	Radiated Emission	15
4.3.	Maximum Peak Output Power	31
4.4.	Power Spectral Density	35
4.5.	Band Edge Compliance of RF Emission	49
4.6.	Spurious RF Conducted Emission	52
4.7.	6dB Bandwidth	52
4.8.	Antenna Requirement	52
<u>5.</u>	<u>TEST SETUP PHOTOS OF THE EUT</u>	<u>52</u>
<u>6.</u>	<u>EXTERNAL AND INTERNAL PHOTOS OF THE EUT</u>	<u>52</u>

1. TEST STANDARDS

The tests were performed according to following standards:

FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

ANSI C63.10-2009: American National Standard for Testing Unlicensed Wireless Devices.

2. SUMMARY

2.1. General Remarks

Date of receipt of test sample : Oct 27, 2010

Testing commenced on : Oct 28, 2010

Testing concluded on : Dec 14, 2010

2.2. Equipment Under Test

Power supply system utilised

Power supply voltage : ☐ 120V / 60 Hz ☐ 115V / 60Hz
☐ 12 V DC ☐ 24 V DC
☒ Other (specified in blank below)

DC 12V Adapter from AC 120V/60Hz

Description of the test mode

IEEE 802.11b/g/n: The EUT provided eleven channels used for USA.

Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432		
6	2437		
7	2442		

2.3. Short description of the Equipment under Test (EUT)

The EUT (HUAWEI HG655b) is a 2.4G wireless home gateway.

For more details, refer to the user's manual of the EUT.

Serial number: Prototype

2.4. EUT operation mode

The EUT has been tested under typical operating condition. The Applicant provides AT command to control the EUT for staying in continuous transmitting and receiving mode for testing.

2.5. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

● - supplied by the manufacturer

○ - supplied by the lab

○ Power Cable

Length (m) : /

Shield : /

Detachable : /

○ Multimeter

Manufacturer : /

Model No. : /

● AC Adapter

MODEL: FM120015-MX

INPUT: 100-240V~50/60Hz 0.6A

OUTPUT: 12.0V $\overline{\overline{\overline{\quad}}}$ 1.5A

Power Cable: 150cm

◇ Shield

◆ Unshield

2.6. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: QISHG655B** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

2.7. Modifications

No modifications were implemented to meet testing criteria.

2.8. NOTE

1. The EUT is an 802.11b/g/n Home Gateway, The functions of the EUT listed as below:

	Test Standards	Reference Report
WLAN 802.11b/g, 802.11n	FCC Part 15 Subpart C (Section 15.247)	WE10100019
WLAN 802.11b/g, 802.11n	FCC Per 47 CFR 2.1091(b)	WE10100020

2. The frequency bands used in this EUT are listed as follows:

Frequency Band(MHz)	2400-2483.5	5150-5350	5470-5725	5725-5850
802.11b	√	—	—	—
802.11g	√	—	—	—
802.11n(20MHz)	√	—	—	—
802.11n(40MHz)	√	—	—	—

3. The EUT incorporates a MIMO function, Physically, the EUT provides two completed transmitter and two completed receivers.

Modulation Mode	TX Function
802.11b	1TX
802.11g	1TX
802.11n (20MHz)	2TX
802.11n (40MHz)	2TX

3. TEST ENVIRONMENT

3.1. Address of the test laboratory

Shenzhen Huatongwei International Inspection Co., Ltd
Keji Nan No.12 Road, Hi-tech Park, Shenzhen, China
Phone: 86-755-26715686 Fax: 86-755-26748089

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 (2009) and CISPR Publication 22.

3.2. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories, Date of Registration: August 02, 2007. Valid time is until March 29, 2012.

A2LA-Lab Cert. No. 2243.01

Shenzhen Huatongwei International Inspection Co., Ltd, EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing. Valid time is from Aug 24, 2005 to Oct 31, 2009.

FCC-Registration No.: 662850

Shenzhen Huatongwei International Inspection Co., Ltd, EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 662850, Renewal date July 01, 2009.

IC-Registration No.: 5377

The 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377 on February 13th, 2011.

ACA

Shenzhen Huatongwei International Inspection Co., Ltd, EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

NEMKO-Aut. No.: ELA125

Shenzhen Huatongwei International Inspection Co., Ltd has been assessed the quality assurance system, the testing facilities, qualifications and testing practices of the relevant parts of the organization. The quality assurance system of the Laboratory has been validated against ISO/IEC 17025:2005 or equivalent. The laboratory also fulfils the conditions described in Nemko Document NLA-10, the Authorization is valid through April 25, 2009.

VCCI

The 3m Semi-anechoic chamber (12.2m×7.95m×6.7m) and Shielded Room (8m×4m×3m) of Shenzhen Huatongwei International Inspection Co., Ltd has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2484. Date of Registration: December 20, 2009. Valid time is until December 19, 2012.

Main Ports Conducted Interference Measurement of Shenzhen Huatongwei International Inspection Co., Ltd has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: C-2726. Date of Registration: December 20, 2009. Valid time is until December 19, 2012.

DNV

Shenzhen Huatongwei International Inspection Co Ltd has been found to comply with the requirements of DNV towards subcontractor of EMC and safety testing services in conjunction with the EMC and Low voltage Directives and in the voluntary field. The acceptance is based on a formal quality Audit and follow-ups according to relevant parts of ISO/IEC Guide 17025(2005), in accordance with the requirements of the DNV Laboratory Quality Manual towards subcontractors. Valid time is until 24 Aug, 2013.

3.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

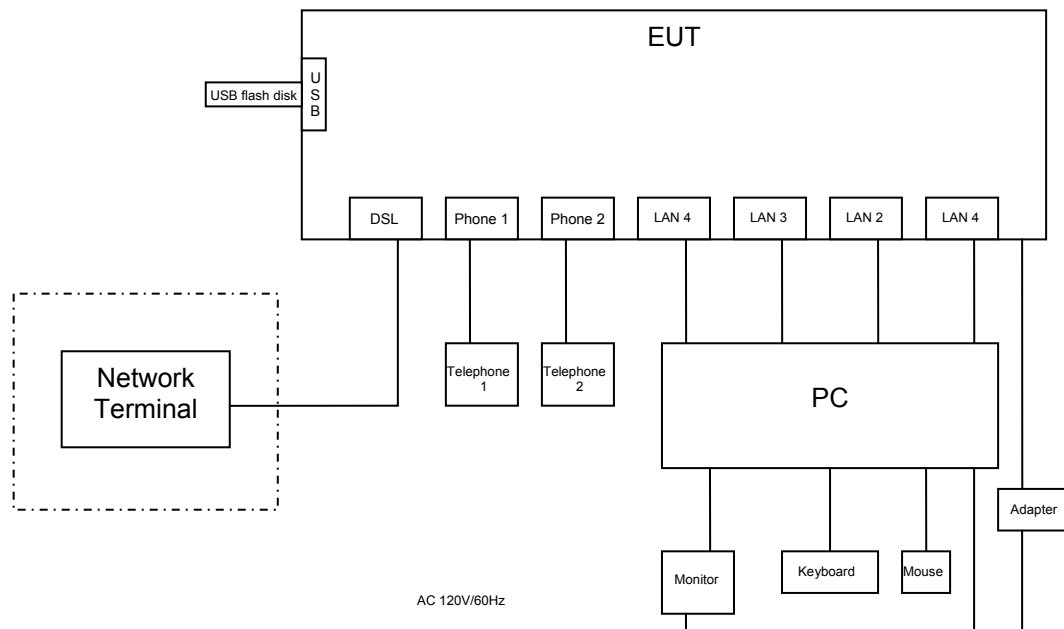
Temperature: 15-35 ° C

Humidity: 30-60 %

Atmospheric pressure: 950-1050mbar

3.4. Configuration of Tested System

Configuration of Tested System



Equipment Used in Tested System

No.	Product	Manufacturer	Model No.	Serial No.	Note
1	PC	IBM	8126KCF	L3DC575	DoC
2	Telephone	CHINO	C028	080801688	CCC
3	Telephone	GAOKE	HCD737TSDL59	70YACX71804A443	CCC
4	Monitor	DELL	1707FPt	CN-OFC237-71618-65G-AAKC	DoC
5	Keyboard	DELL	L100	CNRH65665890726009L	DoC
6	Mouse	DELL	MO56UOA	G0E02SY7	DoC
7	USB flash disk	Kingston	DataTraveler G2	4623354	DoC
8	Network Terminal	HUAWEI	MT5600A	61557010001-001	/

3.5. Test Description

FCC PART 15		
FCC Part 15.207	AC Power Conducted Emission	PASS
FCC Part 15.247(a)(2)	6dB Bandwidth	PASS
FCC Part 15.247(d)	Spurious RF Conducted Emission	PASS
FCC Part 15.247(b)	Maximum Peak Output Power	PASS
FCC Part 15.247(e)	Power Spectral Density	PASS
FCC Part 15.109/ 15.205/ 15.209	Radiated Emissions	PASS
FCC Part 15.247(d)	Band Edge Compliance of RF Emission	PASS
FCC Part 15.203/15.247 (b)	Antenna Requirement	PASS
FCC Per 47 CFR 2.1091(b)	MPE Evaluation	PASS

Remark: The measurement uncertainty is not included in the test result.

The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Channel
AC Power Conducted Emission	Normal Link	11 Mbps	1
Maximum Peak Conducted Output Power Power Spectral Density 6dB Bandwidth Spurious RF conducted emission	11b/DSSS	11 Mbps	1/6/11
	11g/OFDM	54 Mbps	1/6/11
	11n(20MHz)/OFDM	65Mbps	1/6/11
	11n(40MHz)/OFDM	135Mbps	3/6/9
Radiated Emission 30MHz~1GHz	11b/DSSS	11 Mbps	1/6/11
	11g/OFDM	54 Mbps	1/6/11
	11n(20MHz)/OFDM	65Mbps	1/6/11
	11n(40MHz)/OFDM	135Mbps	3/6/9
Radiated Emission 1GHz~10th Harmonic	11b/DSSS	11 Mbps	1/6/11
	11g/OFDM	54 Mbps	1/6/11
	11n(20MHz)/OFDM	65Mbps	1/6/11
	11n(40MHz)/OFDM	135Mbps	3/6/9
Band Edge Compliance of RF Emission	11b/DSSS	11 Mbps	1/11
	11g/OFDM	54 Mbps	1/11
	11n(20MHz)/OFDM	65Mbps	1/11
	11n(40MHz)/OFDM	135Mbps	3/9

Note1: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.

Note2: This device use MIMO 2X2 antennas, for 802.11b/g mode, based exploratory test, when transmit with Antenna 1 have worse emissions, so the final radiated spurious emissions were tested with Antenna 1. For 802.11n mode, all the radiated spurious emissions and band edge test were performed with two antennas transmit synchronous.

3.6. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongwei laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	± 4.24 dB	(1)
Radiated Emission	1~18GHz	± 5.16 dB	(1)
Radiated Emission	18-40GHz	± 5.54 dB	(1)
Conducted Disturbance	0.15~30MHz	± 3.39 dB	(1)

- (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.7. Equipments Used during the Test

AC Power Conducted Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESCS30	100038	2010/10/24
2	ARTIFICIAL MAINS	ROHDE & SCHWARZ	ESH2-Z5	100028	2010/10/24
3	PULSE LIMITER	ROHDE & SCHWARZ	ESHSZ2	100044	2010/10/24
4	EMI TEST SOFTWARE	ROHDE & SCHWARZ	ES-K1 1.71	N/A	2010/10/24
5	ARTIFICIAL MAINS	ROHDE & SCHWARZ	ESH2-Z5	100028	2010/10/24
6	Two-Line V-Network	ROHDE & SCHWARZ	ESH3-Z5	100049	2010/10/24

Radiated Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	ULTRA-BROADBAND ANTENNA	ROHDE & SCHWARZ	HL562	100015	2010/05/30
2	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESI 26	100009	2010/10/24
3	RF TEST PANEL	ROHDE & SCHWARZ	TS / RSP	335015/ 0017	2010/10/24
4	TURNTABLE	ETS	2088	2149	2010/10/24
5	ANTENNA MAST	ETS	2075	2346	2010/10/24
6	EMI TEST SOFTWARE	ROHDE & SCHWARZ	ESK1	N/A	2010/10/24
7	HORN ANTENNA	ROHDE & SCHWARZ	HF906	100039	2010/10/24
8	Amplifier	Sonoma	310N	E009-13	2010/10/24
9	JS amplifier	ROHDE & SCHWARZ	JS4-00101800-28-5A	F201504	2010/10/24
10	High pass filter	Compliance Direction systems	BSU-6	34202	2010/03/28

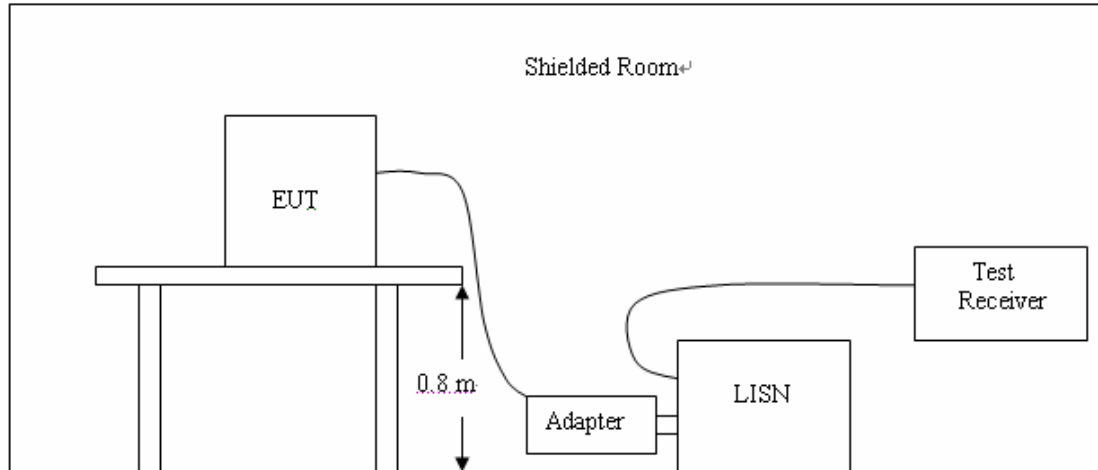
Maximum Peak Output Power / Power Spectral Density / 6dB Bandwidth / Band Edge Compliance of RF Emission / Spurious RF Conducted Emission

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESI 26	100009	2010/10/24
2	Power Meter	Anritsu	ML2487A	6K00001568	2010/10/24
3	Power Meter Sensor	Anritsu	ML2491A	0630989	2010/10/24

4. TEST CONDITIONS AND RESULTS

4.1. AC Power Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10-2009.
2. Support equipment, if needed, was placed as per ANSI C63.10-2009
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2009
4. The EUT received DC12V power from the adapter, the adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5. All support equipments received AC power from a second LISN, if any.
6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.

AC Power Conducted Emission Limit

For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following :

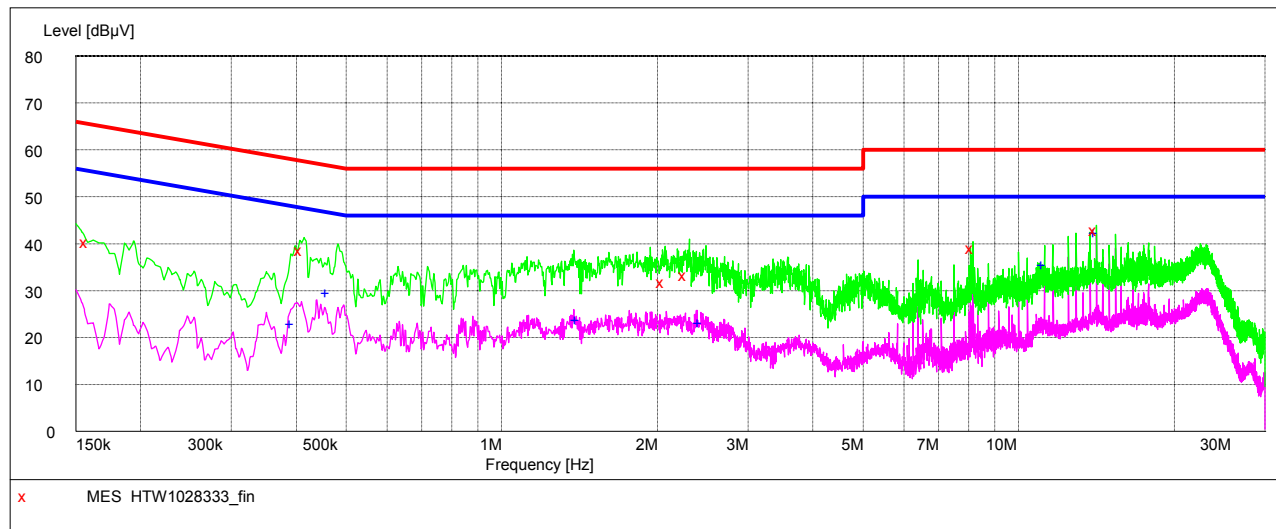
Frequency (MHz)	Maximum RF Line Voltage (dBμV)			
	CLASS A		CLASS B	
	Q.P.	Ave.	Q.P.	Ave.
0.15 - 0.50	79	66	66-56*	56-46*
0.50 - 5.00	73	60	56	46
5.00 - 30.0	73	60	60	50

* Decreasing linearly with the logarithm of the frequency

TEST RESULTS**SCAN TABLE: "Voltage (9K-30M)FIN"**

Short Description:

150K-30M Voltage

**MEASUREMENT RESULT: "HTW1028333_fin"**

10/28/2010 11:07PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.158000	40.60	10.5	66	25.0	QP	L1	GND
0.410000	38.80	10.4	58	18.8	QP	L1	GND
2.058000	32.00	10.5	56	24.0	QP	L1	GND
2.274000	33.50	10.5	56	22.5	QP	L1	GND
8.174000	39.20	10.7	60	20.8	QP	L1	GND
14.158000	43.20	10.9	60	16.8	QP	L1	GND

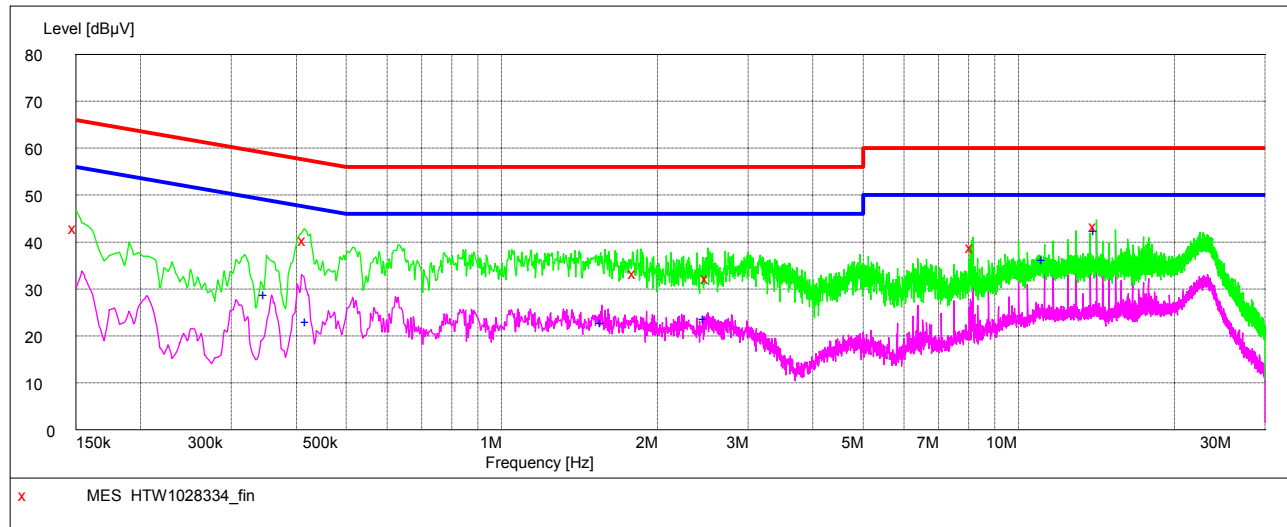
MEASUREMENT RESULT: "HTW1028333_fin2"

10/28/2010 11:07PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.394000	23.00	10.5	48	25.0	AV	L1	GND
0.462000	29.70	10.4	47	17.0	AV	L1	GND
1.406000	23.90	10.5	46	22.1	AV	L1	GND
2.426000	23.30	10.5	46	22.7	AV	L1	GND
11.242000	35.70	10.9	50	14.3	AV	L1	GND
14.158000	42.40	10.9	50	7.6	AV	L1	GND

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "HTW1028334_fin"**

10/28/2010 11:10PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150000	43.10	10.5	66	22.9	QP	N	GND
0.418000	40.60	10.4	58	16.9	QP	N	GND
1.818000	33.50	10.5	56	22.5	QP	N	GND
2.510000	32.50	10.5	56	23.5	QP	N	GND
8.174000	39.10	10.7	60	20.9	QP	N	GND
14.158000	43.50	10.9	60	16.5	QP	N	GND

MEASUREMENT RESULT: "HTW1028334_fin2"

10/28/2010 11:10PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.350000	29.00	10.5	49	20.0	AV	N	GND
0.422000	23.10	10.4	47	24.3	AV	N	GND
1.570000	22.90	10.5	46	23.1	AV	N	GND
2.486000	23.80	10.5	46	22.2	AV	N	GND
11.242000	36.40	10.9	50	13.6	AV	N	GND
14.158000	42.50	10.9	50	7.5	AV	N	GND

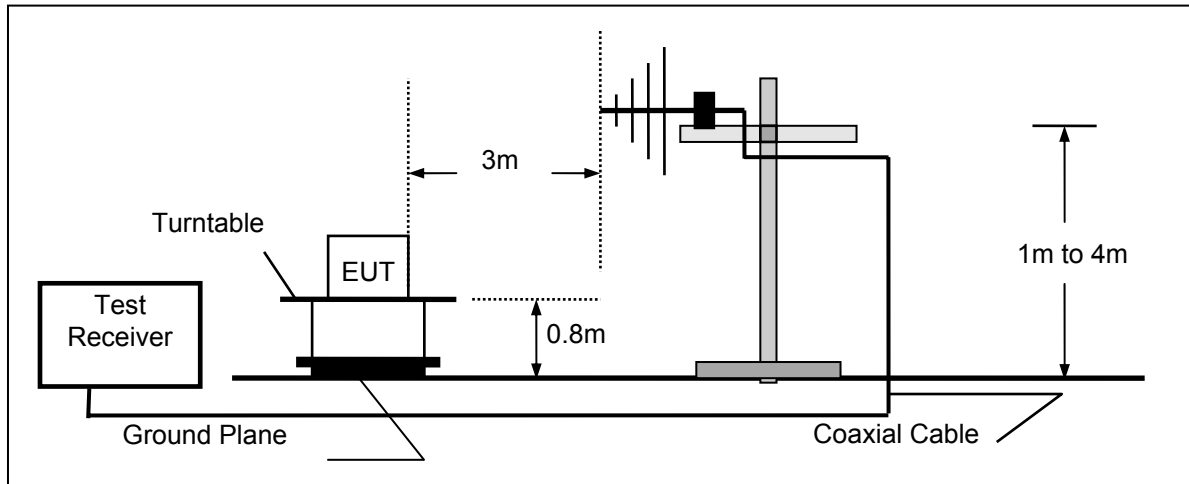
REMARKS :

1. Margin value = Limit value- Emission level
2. The EUT was set to be normal operation condition. Each Ethernet port was connected and data pay lead was transmitted at highest data rate. The RF chip can be operated in 802.11g and 802.11b and 802.11n mode. The rf chip will detect the environment and select the proper mode automatically. The WLAN function was set to normal operation condition.
3. The record values are the worst of the 802.11b,g,n test results.

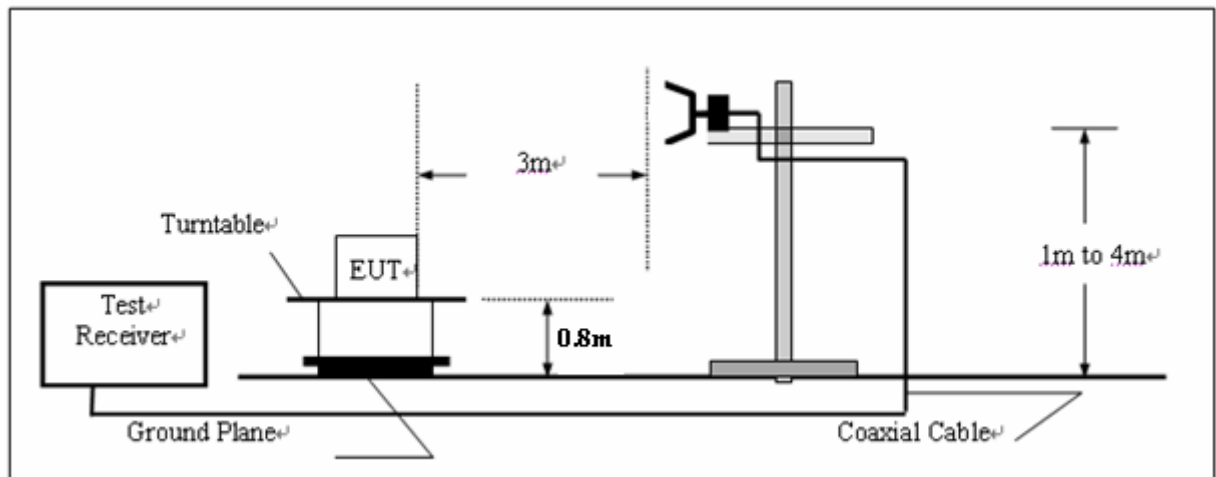
4.2. Radiated Emission

TEST CONFIGURATION

(a) Radiated Emission Test Set-Up, Frequency below 1000MHz



(b) Radiated Emission Test Set-Up, Frequency above 1000MHz



TEST PROCEDURE

- 1 The EUT was placed on a turn table which is 0.8m above ground plane.
- 2 Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° to 360° to acquire the highest emissions from EUT
- 3 And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4 Repeat above procedures until all frequency measurements have been completed.
- 5 The bandwidth of the EMI test receiver is set at 120kHz for frequency range from 30MHz to 1000 MHz.
- 6 The bandwidth of the Spectrum's RBW is set at 1MHz and VBW is set at 3MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

RADIATION LIMIT

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission from intentional radiators at a distance of 3 meters shall not exceed the following table. According to § 15.247(d), in any 100kHz bandwidth outside the frequency band in which the EUT is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of desired power.

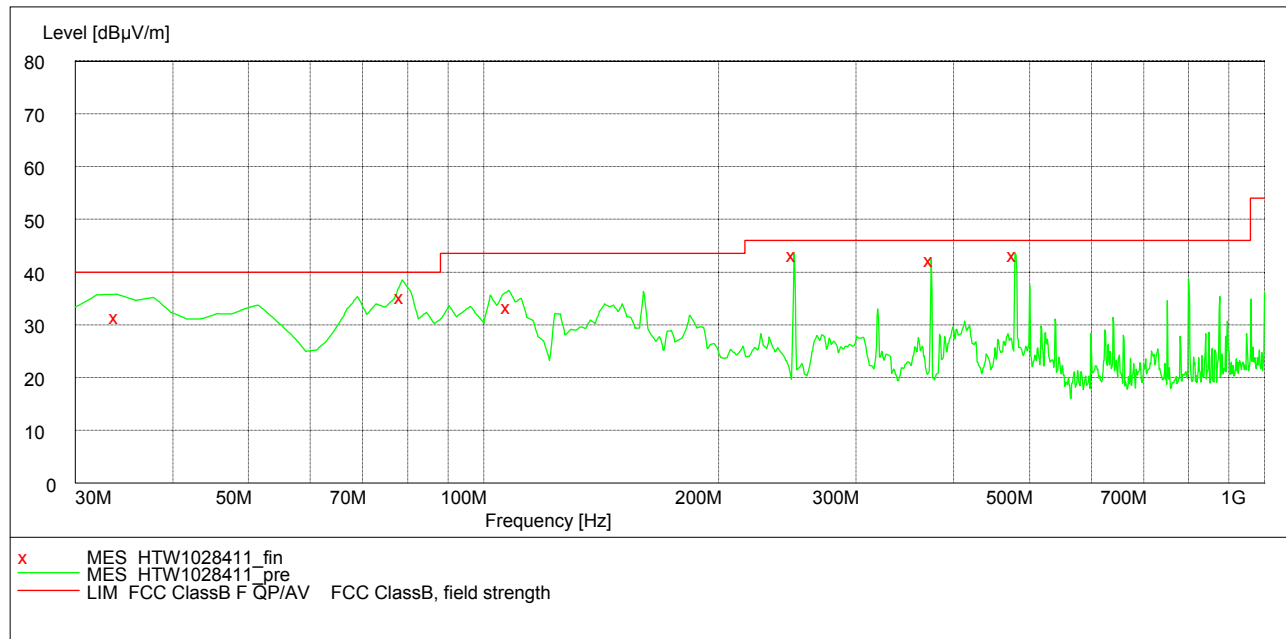
Frequency (MHz)	Distance (Meters)	Radiated (dBμV/m)	Radiated (μV/m)
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

TEST RESULTS

The radiated measurement are performed the each test mode (b/g/n) and channel (low/mid/high), the datum recorded below (802.11b mode,the middle channel) is the worst case for all the test mode and channel.

SCAN TABLE: "test Field(30M-1G)QP"

Short Description:			Field Strength(30M-1G)			
Start	Stop	Step	Detector	Meas.	IF	Transducer
Frequency	Frequency	Width		Time	Bandw.	
30.0 MHz	1.0 GHz	60.0 kHz	QuasiPeak	1.0 s	120 kHz	HL562 10



MEASUREMENT RESULT: "HTW1028411_fin"

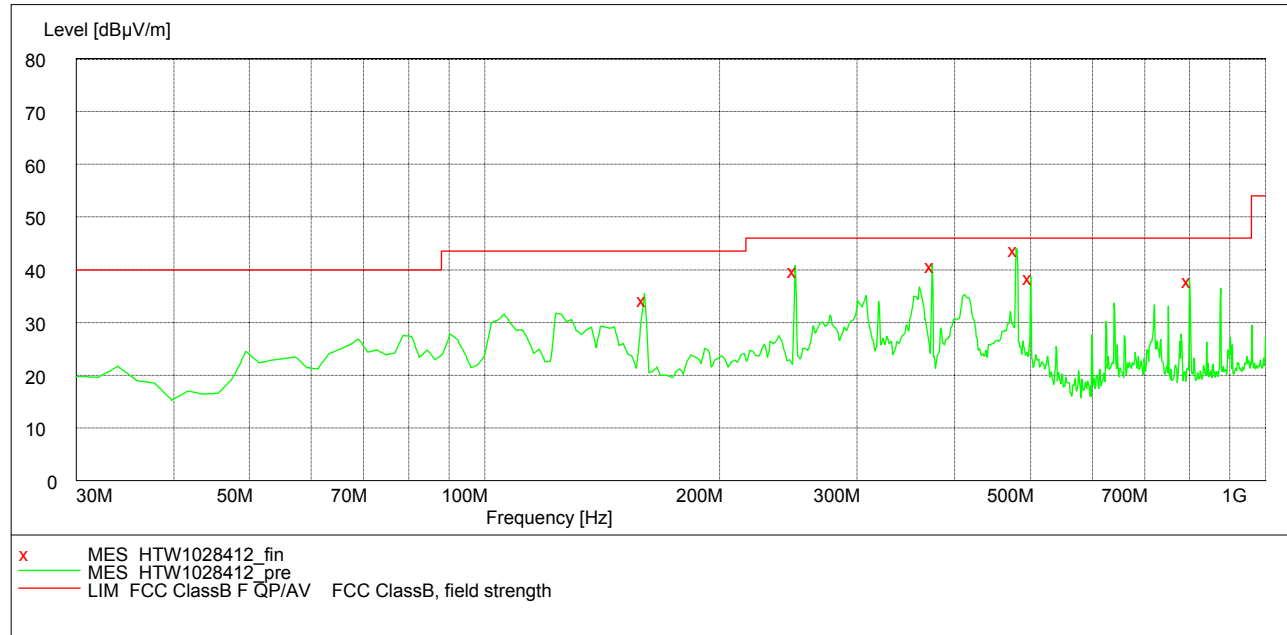
Frequency (MHz)	Field Strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detect or	Antenna Factor (dB/m)	Cable Loss (dB)	Amplifier Gain (dB)	Reading Amplitude (dBμV)	Polarization
33.88	31.8	40.0	8.2	QP	19.5	6.7	31.8	37.4	Vertical
78.59	35.5	40.0	4.5	QP	8.3	6.9	31.8	52.1	Vertical
107.75	33.6	43.5	9.9	QP	11.9	7.1	31.9	46.5	Vertical
249.65	43.6	46.0	2.4	QP	10.5	7.9	31.9	57.1	Vertical
374.06	42.5	46.0	3.5	QP	14.2	8.5	31.9	51.7	Vertical
479.03	43.6	46.0	2.4	QP	15.4	9.1	32.0	51.1	Vertical

Remark:

- (1) Measuring frequencies from 30 MHz to the 1 GHz.
- (2) Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) The IF bandwidth of EMI Test Receiver was 120KHz for measuring from 30 MHz to 1 GHz and 1 MHz for measuring above 1 GHz

SCAN TABLE: "test Field(30M-1G)QP"

Short Description: Field Strength(30M-1G)
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 30.0 MHz 1.0 GHz 60.0 kHz QuasiPeak 1.0 s 120 kHz HL562 10

**MEASUREMENT RESULT: "HTW1028412_fin"**

Frequency (MHz)	Field Strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detect or	Antenna Factor (dB/m)	Cable Loss (dB)	Amplifier Gain (dB)	Reading Amplitude (dBμV)	Polarization
160.24	34.5	43.5	9.0	QP	7.8	7.6	32.0	51.1	Horizontal
249.65	40.0	46.0	6.0	QP	10.5	7.9	31.9	53.5	Horizontal
374.06	41.0	46.0	5.0	QP	14.2	8.5	31.9	50.2	Horizontal
479.03	43.8	46.0	2.2	QP	15.4	9.1	32.0	51.3	Horizontal
500.42	38.7	46.0	7.3	QP	15.7	9.1	32.0	45.9	Horizontal
799.77	38.1	46.0	7.9	QP	20.4	9.7	31.8	39.8	Horizontal

Remark:

- (1) Measuring frequencies from 30 MHz to the 1 GHz.
- (2) Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) The IF bandwidth of EMI Test Receiver was 120KHz for measuring from 30 MHz to 1 GHz and 1 MHz for measuring above 1 GHz

The frequency spectrum above 1 GHz for Transmitter was investigated. All emission not reported are much lower than the prescribed limits. Set the RBW=1MHz,VBW=3MHz for Peak Detector while the RBW=1MHz,VBW=10Hz for Average Detector,Readings are both peak and average values.

Company	HUAWEI TECHNOLOGIES CO.,LTD.	Test Date	12/12/2010
Test Mode	802.11b Channel 1	Detector Function	Peak(PK)/Average(AV)
Product Name	Home Gateway	Test By	Eric Zhang
Model Name	HUAWEI HG655b	TEMP&Humidity	25°C, 55%

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	2390.00	50.83	PK	74.00	23.17	1.00 H	200	54.23	28.3	4.90	36.6	-3.40
1	2390.00	42.11	AV	54.00	11.89	1.00 H	200	45.41	28.3	4.90	36.6	-3.40
2	*2412.00	106.46	PK			1.00 H	333	109.86	28.3	4.90	36.6	-3.40
2	*2412.00	93.10	AV			1.00 H	333	96.50	28.3	4.90	36.6	-3.40
3	4824.00	49.23	PK	74.00	24.77	1.00 H	125	46.03	32.7	7.00	36.5	3.20
3	4824.00	39.00	AV	54.00	15.00	1.00 H	125	35.80	32.7	7.00	36.5	3.20
4	7236.00	57.21	PK	74.00	16.79	1.00 H	66	47.81	35.8	8.90	35.3	9.40
4	7236.00	43.35	AV	54.00	10.65	1.00 H	66	33.95	35.8	8.90	35.3	9.40
5	9648.00	55.23	PK	74.00	18.77	1.00 H	264	42.63	37.2	10.20	34.8	12.60
5	9648.00	43.00	AV	54.00	11.00	1.00 H	264	30.40	37.2	10.20	34.8	12.60

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	2390.00	53.89	PK	74.00	20.11	1.0	236	57.29	28.3	4.90	36.6	-3.40
1	2390.00	44.49	AV	54.00	9.51	1.0	236	47.89	28.3	4.90	36.6	-3.40
2	*2412.00	109.96	PK			1.0	100	113.36	28.3	4.90	36.6	-3.40
2	*2412.00	96.21	AV			1.0	100	99.55	28.3	4.90	36.6	-3.40
3	4824.00	58.23	PK	74.00	15.77	1.0	312	55.03	32.7	7.00	36.5	3.20
3	4824.00	43.00	AV	54.00	11.00	1.0	312	39.80	32.7	7.00	36.5	3.20
4	7236.00	60.12	PK	74.00	13.88	1.0	46	50.72	35.8	8.90	35.3	9.40
4	7236.00	45.17	AV	54.00	8.83	1.0	46	35.77	35.8	8.90	35.3	9.40
5	9648.00	58.64	PK	74.00	15.36	1.0	108	46.04	37.2	10.20	34.8	12.60
5	9648.00	43.57	AV	54.00	10.43	1.0	108	30.97	37.2	10.20	34.8	12.60

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor
 3. The other emission levels were very low against the limit.
 4. Margin value = Limit value - Emission level.
 5. The limit value is defined as per 15.247
 6. "*" "": Fundamental frequency

Company	HUAWEI TECHNOLOGIES CO.,LTD.	Test Date	12/12/2010
Test Mode	802.11b Channel 6	Detector Function	Peak(PK)/Average(AV)
Product Name	Home Gateway	Test By	Eric Zhang
Model Name	HUAWEI HG655b	TEMP&Humidity	25°C, 55%

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	*2437.00	107.89	PK			1.00 H	282	111.09	28.3	5.10	36.6	-3.20
1	*2437.00	94.23	AV			1.00 H	282	97.43	28.3	5.10	36.6	-3.20
2	4874.00	46.98	PK	74.00	27.02	1.00 H	125	43.58	32.3	7.60	36.5	3.40
2	4874.00	35.00	AV	54.00	19.00	1.00 H	125	31.60	32.3	7.60	36.5	3.40
3	7311.00	51.17	PK	74.00	22.83	1.00 H	46	41.77	36.1	8.60	35.3	9.40
3	7311.00	40.06	AV	54.00	13.94	1.00 H	46	30.66	36.1	8.60	35.3	9.40
4	9748.00	53.78	PK	74.00	20.22	1.00 H	360	41.18	37.2	10.20	34.8	12.60
4	9748.00	41.98	AV	54.00	12.02	1.00 H	360	29.38	37.2	10.20	34.8	12.60

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	*2437.00	110.26	PK			1.00 V	101	113.46	28.3	5.10	36.6	-3.20
1	*2437.00	97.65	AV			1.00 V	101	100.85	28.3	5.10	36.6	-3.20
2	4874.00	47.54	PK	74.00	26.46	1.00 V	264	44.14	32.3	7.60	36.5	3.40
2	4874.00	35.41	AV	54.00	18.59	1.00 V	264	32.01	32.3	7.60	36.5	3.40
3	7311.00	55.46	PK	74.00	18.54	1.00 V	85	46.06	36.1	8.60	35.3	9.40
3	7311.00	40.12	AV	54.00	13.88	1.00 V	85	30.72	36.1	8.60	35.3	9.40
4	9748.00	49.91	PK	74.00	24.09	1.00 V	179	37.31	37.2	10.20	34.8	12.60
4	9748.00	38.55	AV	54.00	15.45	1.00 V	179	25.95	37.2	10.20	34.8	12.60

- REMARKS:**
1. Emission level (dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) -Pre-amplifier Factor
 3. The other emission levels were very low against the limit.
 4. Margin value = Limit value- Emission level.
 5. The limit value is defined as per 15.247
 6. “*”: Fundamental frequency

Company	HUAWEI TECHNOLOGIES CO.,LTD.	Test Date	12/12/2010
Test Mode	802.11b Channel 11	Detector Function	Peak(PK)/Average(AV)
Product Name	Home Gateway	Test By	Eric Zhang
Model Name	HUAWEI HG655b	TEMP&Humidity	25°C, 55%

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	*2462.00	104.67	PK		1.00 H	249	107.97	28.6	4.70	36.6	-3.30
1	*2462.00	94.55	AV		1.00 H	249	97.85	28.6	4.70	36.6	-3.30
2	2483.50	46.91	PK	74.00	1.00 H	146	50.21	28.6	4.70	36.6	-3.30
2	2483.50	44.21	AV	54.00	1.00 H	146	47.51	28.6	4.70	36.6	-3.30
3	4924.00	50.05	PK	74.00	1.00 H	6	46.25	33.0	7.00	36.2	3.80
3	4924.00	35.19	AV	54.00	1.00 H	6	31.39	33.0	7.00	36.2	3.80
4	7386.00	56.47	PK	74.00	1.00 H	200	47.07	36.2	8.50	35.3	9.40
4	7386.00	42.56	AV	54.00	1.00 H	200	33.16	36.2	8.50	35.3	9.40
5	9848.00	50.56	PK	74.00	1.00 H	360	37.96	37.2	10.20	34.8	12.60
5	9848.00	40.22	AV	54.00	1.00 H	360	27.62	37.2	10.20	34.8	12.60

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	*2462.00	108.78	PK		1.00 V	247	112.08	28.6	4.70	36.6	-3.30
1	*2462.00	96.28	AV		1.00 V	247	99.58	28.6	4.70	36.6	-3.30
2	2483.50	54.89	PK	74.00	1.00 V	104	58.19	28.6	4.70	36.6	-3.30
2	2483.50	46.77	AV	54.00	1.00 V	104	50.07	28.6	4.70	36.6	-3.30
3	4924.00	55.27	PK	74.00	1.00 V	259	51.47	33.0	7.00	36.2	3.80
3	4924.00	45.89	AV	54.00	1.00 V	259	42.09	33.0	7.00	36.2	3.80
4	7386.00	60.36	PK	74.00	1.00 V	129	50.96	36.2	8.50	35.3	9.40
4	7386.00	46.17	AV	54.00	1.00 V	129	36.77	36.2	8.50	35.3	9.40
5	9848.00	55.56	PK	74.00	1.00 V	324	42.96	37.2	10.20	34.8	12.60
5	9848.00	41.79	AV	54.00	1.00 V	324	29.19	37.2	10.20	34.8	12.60

- REMARKS:**
1. Emission level (dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) -Pre-amplifier Factor
 3. The other emission levels were very low against the limit.
 4. Margin value = Limit value- Emission level.
 5. The limit value is defined as per 15.247
 6. “* “: Fundamental frequency

The frequency spectrum above 1 GHz for Transmitter was investigated. All emission not reported are much lower than the prescribed limits. Set the RBW=1MHz,VBW=3MHz for Peak Detector while the RBW=1MHz,VBW=10Hz for Average Detector,Readings are both peak and average values.

Company	HUAWEI TECHNOLOGIES CO.,LTD.	Test Date	12/12/2010
Test Mode	802.11g Channel 1	Detector Function	Peak(PK)/Average(AV)
Product Name	Home Gateway	Test By	Eric Zhang
Model Name	HUAWEI HG655b	TEMP&Humidity	25°C, 55%

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	2390.00	62.83 PK	74.00	11.17	1.00 H	247	66.13	28.3	5.00	36.6	-3.30
1	2390.00	42.22 AV	54.00	11.78	1.00 H	247	45.52	28.3	5.00	36.6	-3.30
2	*2412.00	106.36 PK			1.00 H	100	109.66	28.3	5.00	36.6	-3.30
2	*2412.00	92.53 AV			1.00 H	100	95.83	28.3	5.00	36.6	-3.30
3	4824.00	50.23 PK	74.00	23.77	1.00 H	89	46.43	32.7	7.30	36.2	3.80
3	4824.00	36.88 AV	54.00	17.12	1.00 H	89	33.08	32.7	7.30	36.2	3.80
4	7236.00	54.00 PK	74.00	20.00	1.00 H	345	44.60	35.8	8.90	35.3	9.40
4	7236.00	40.13 AV	54.00	13.87	1.00 H	345	30.73	35.8	8.90	35.3	9.40
5	9648.00	51.55 PK	74.00	22.45	1.00 H	121	38.95	37.2	10.20	34.8	12.60
5	9648.00	39.78 AV	54.00	14.22	1.00 H	121	27.18	37.2	10.20	34.8	12.60

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	2390.00	69.55 PK	74.00	4.450	1.00 V	288	72.85	28.3	5.00	36.6	-3.30
1	2390.00	42.25 AV	54.00	11.75	1.00 V	288	45.55	28.3	5.00	36.6	-3.30
2	*2412.00	104.29 PK			1.00 V	69	107.59	28.3	5.00	36.6	-3.30
2	*2412.00	92.24 AV			1.00 V	69	95.54	28.3	5.00	36.6	-3.30
3	4824.00	55.54 PK	74.00	18.46	1.00 V	291	51.74	32.7	7.30	36.2	3.80
3	4824.00	40.12 AV	54.00	13.88	1.00 V	291	36.32	32.7	7.30	36.2	3.80
4	7236.00	60.45 PK	74.00	13.55	1.00 V	360	51.05	35.8	8.90	35.3	9.40
4	7236.00	42.77 AV	54.00	11.23	1.00 V	360	33.37	35.8	8.90	35.3	9.40
5	9648.00	57.68 PK	74.00	16.32	1.00 V	155	45.08	37.2	10.20	34.8	12.60
5	9648.00	40.44 AV	54.00	13.56	1.00 V	155	27.84	37.2	10.20	34.8	12.60

- REMARKS:**
1. Emission level (dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) -Pre-amplifier Factor
 3. The other emission levels were very low against the limit.
 4. Margin value = Limit value- Emission level.
 5. The limit value is defined as per 15.247
 6. “* “: Fundamental frequency

Company	HUAWEI TECHNOLOGIES CO.,LTD.	Test Date	12/12/2010
Test Mode	802.11g Channel 6	Detector Function	Peak(PK)/Average(AV)
Product Name	Home Gateway	Test By	Eric Zhang
Model Name	HUAWEI HG655b	TEMP&Humidity	25°C, 55%

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	*2437.00	104.23 PK			1.00 H	312	107.43	28.3	5.10	36.6	-3.20
1	*2437.00	92.45 AV			1.00 H	312	95.65	28.3	5.10	36.6	-3.20
2	4874.00	49.27 PK	74.00	24.73	1.00 H	200	45.87	32.8	7.10	36.5	3.40
2	4874.00	35.12 AV	54.00	18.88	1.00 H	200	31.72	32.8	7.10	36.5	3.40
3	7311.00	54.23 PK	74.00	19.77	1.00 H	125	44.83	36.1	8.60	35.3	9.40
3	7311.00	40.78 AV	54.00	13.22	1.00 H	125	31.38	36.1	8.60	35.3	9.40
4	9748.00	50.40 PK	74.00	23.60	1.00 H	18	37.80	37.2	10.20	34.8	12.60
4	9748.00	39.22 AV	54.00	14.78	1.00 H	18	26.62	37.2	10.20	34.8	12.60

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	*2437.00	101.79 PK			1.00 V	300	104.99	28.3	5.10	36.6	-3.20
1	*2437.00	90.26 AV			1.00 V	300	93.43	28.3	5.10	36.6	-3.20
2	4874.00	51.47 PK	74.00	22.53	1.00 V	156	48.07	32.8	7.10	36.5	3.40
2	4874.00	40.56 AV	54.00	13.44	1.00 V	156	37.16	32.8	7.10	36.5	3.40
3	7311.00	55.28 PK	74.00	18.72	1.00 V	89	45.88	36.1	8.60	35.3	9.40
3	7311.00	42.17 AV	54.00	11.83	1.00 V	89	32.77	36.1	8.60	35.3	9.40
4	9748.00	49.91 PK	74.00	24.09	1.00 V	278	37.31	37.2	10.20	34.8	12.60
4	9748.00	35.57 AV	54.00	18.43	1.00 V	278	22.97	37.2	10.20	34.8	12.60

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor
 3. The other emission levels were very low against the limit.
 4. Margin value = Limit value - Emission level.
 5. The limit value is defined as per 15.247
 6. “*”: Fundamental frequency

Company	HUAWEI TECHNOLOGIES CO.,LTD.	Test Date	12/12/2010
Test Mode	802.11g Channel 11	Detector Function	Peak(PK)/Average(AV)
Product Name	Home Gateway	Test By	Eric Zhang
Model Name	HUAWEI HG655b	TEMP&Humidity	25°C, 55%

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	*2462.00	98.68 PK			1.00 H	84	101.98	28.2	5.10	36.6	-3.30
1	*2462.00	90.58 AV			1.00 H	84	93.88	28.2	5.10	36.6	-3.30
2	2483.50	47.50 PK	74.00	26.50	1.00 H	122	50.80	28.2	5.10	36.6	-3.30
2	2483.50	38.34 AV	54.00	15.66	1.00 H	122	41.64	28.2	5.10	36.6	-3.30
3	4924.00	50.98 PK	74.00	23.02	1.00 H	345	47.18	33.0	7.00	36.2	3.80
3	4924.00	36.47 AV	54.00	17.53	1.00 H	345	32.67	33.0	7.00	36.2	3.80
4	7386.00	53.13 PK	74.00	20.87	1.00 H	220	43.73	36.2	8.50	35.3	9.40
4	7386.00	39.55 AV	54.00	14.45	1.00 H	220	30.15	36.2	8.50	35.3	9.40
5	9848.00	53.91 PK	74.00	20.09	1.00 H	124	41.31	37.3	10.10	34.8	12.60
5	9848.00	40.18 AV	54.00	13.82	1.00 H	124	27.58	37.3	10.10	34.8	12.60

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	*2462.00	103.27 PK			1.00 V	360	106.57	28.2	5.10	36.6	-3.30
1	*2462.00	97.81 AV			1.00 V	360	101.11	28.2	5.10	36.6	-3.30
2	2483.50	57.20 PK	74.00	16.80	1.00 V	127	60.50	28.2	5.10	36.6	-3.30
2	2483.50	46.06 AV	54.00	7.94	1.00 V	127	49.36	28.2	5.10	36.6	-3.30
3	4924.00	46.99 PK	74.00	27.01	1.00 V	112	43.19	33.0	7.00	36.2	3.80
3	4924.00	34.14 AV	54.00	19.86	1.00 V	112	30.34	33.0	7.00	36.2	3.80
4	7386.00	54.12 PK	74.00	19.88	1.00 V	79	44.72	36.2	8.50	35.3	9.40
4	7386.00	40.00 AV	54.00	14.00	1.00 V	79	30.60	36.2	8.50	35.3	9.40
5	9848.00	54.17 PK	74.00	19.83	1.00 V	150	41.57	37.3	10.10	34.8	12.60
5	9848.00	40.56 AV	54.00	13.44	1.00 V	150	27.96	37.3	10.10	34.8	12.60

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor
 3. The other emission levels were very low against the limit.
 4. Margin value = Limit value - Emission level.
 5. The limit value is defined as per 15.247
 6. " * " : Fundamental frequency

The frequency spectrum above 1 GHz for Transmitter was investigated. All emission not reported are much lower than the prescribed limits. Set the RBW=1MHz,VBW=3MHz for Peak Detector while the RBW=1MHz,VBW=10Hz for Average Detector,Readings are both peak and average values.

Company	HUAWEI TECHNOLOGIES CO.,LTD.	Test Date	12/12/2010
Test Mode	802.11n (20MHz) Channel 1	Detector Function	Peak(PK)/Average(AV)
Product Name	Home Gateway	Test By	Eric Zhang
Model Name	HUAWEI HG655b	TEMP&Humidity	25°C, 55%

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	2390.00	67.10 PK	74.00	6.90	1.00 H	144	70.40	28.3	5.00	36.6	-3.30
1	2390.00	34.50 AV	54.00	19.50	1.00 H	144	37.80	28.3	5.00	36.6	-3.30
2	*2412.00	104.43 PK			1.00 H	256	107.73	28.3	5.00	36.6	-3.30
2	*2412.00	84.00 AV			1.00 H	256	87.30	28.3	5.00	36.6	-3.30
3	4824.00	52.23 PK	74.00	21.77	1.00 H	88	48.43	32.7	7.30	36.2	3.80
3	4824.00	41.47 AV	54.00	12.53	1.00 H	88	37.67	32.7	7.30	36.2	3.80
4	7236.00	53.88 PK	74.00	20.12	1.00 H	331	44.48	35.8	8.90	35.3	9.40
4	7236.00	41.26 AV	54.00	12.74	1.00 H	331	31.86	35.8	8.90	35.3	9.40
5	9648.00	55.14 PK	74.00	18.86	1.00 H	105	42.54	37.2	10.20	34.8	12.60
5	9648.00	42.69 AV	54.00	11.31	1.00 H	105	30.09	37.2	10.20	34.8	12.60

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	2390.00	68.01 PK	74.00	5.99	1.00 V	125	71.31	28.3	5.00	36.6	-3.30
1	2390.00	45.27 AV	54.00	8.73	1.00 V	125	48.57	28.3	5.00	36.6	-3.30
2	*2412.00	105.40 PK			1.00 V	236	108.70	28.3	5.00	36.6	-3.30
2	*2412.00	87.72 AV			1.00 V	236	91.02	28.3	5.00	36.6	-3.30
3	4824.00	53.39 PK	74.00	20.61	1.00 V	179	49.59	32.7	7.30	36.2	3.80
3	4824.00	42.07 AV	54.00	11.93	1.00 V	179	38.27	32.7	7.30	36.2	3.80
4	7236.00	54.51 PK	74.00	19.49	1.00 V	313	45.11	35.8	8.90	35.3	9.40
4	7236.00	41.56 AV	54.00	12.44	1.00 V	313	32.16	35.8	8.90	35.3	9.40
5	9648.00	56.71 PK	74.00	17.29	1.00 V	5	44.11	37.2	10.20	34.8	12.60
5	9648.00	43.25 AV	54.00	10.75	1.00 V	5	30.65	37.2	10.20	34.8	12.60

- REMARKS:**
1. Emission level (dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) -Pre-amplifier Factor
 3. The other emission levels were very low against the limit.
 4. Margin value = Limit value- Emission level.
 5. The limit value is defined as per 15.247
 6. “* “: Fundamental frequency

Company	HUAWEI TECHNOLOGIES CO.,LTD.	Test Date	12/12/2010
Test Mode	802.11n (20MHz) Channel 6	Detector Function	Peak(PK)/Average(AV)
Product Name	Home Gateway	Test By	Eric Zhang
Model Name	HUAWEI HG655b	TEMP&Humidity	25°C, 55%

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	*2437.00	101.88	PK		1.00 H	223	105.08	28.3	5.10	36.6	-3.20
1	*2437.00	85.07	AV		1.00 H	122	88.27	28.3	5.10	36.6	-3.20
2	4874.00	47.56	PK	74.00	1.00 H	5	44.16	32.8	7.10	36.5	3.40
2	4874.00	36.91	AV	54.00	1.00 H	5	33.51	32.8	7.10	36.5	3.40
3	7311.00	51.72	PK	74.00	1.00 H	124	42.32	36.1	8.60	35.3	9.40
3	7311.00	40.66	AV	54.00	1.00 H	124	31.26	36.1	8.60	35.3	9.40
4	9748.00	53.78	PK	74.00	1.00 H	325	41.18	37.2	10.20	34.8	12.60
4	9748.00	42.04	AV	54.00	1.00 H	325	29.44	37.2	10.20	34.8	12.60

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	*2437.00	102.97	PK		1.00 V	125	106.17	28.3	5.10	36.6	-3.20
1	*2437.00	86.11	AV		1.00 V	125	89.31	28.3	5.10	36.6	-3.20
2	4874.00	48.23	PK	74.00	1.00 V	289	44.83	32.8	7.10	36.5	3.40
2	4874.00	36.97	AV	54.00	1.00 V	289	33.57	32.8	7.10	36.5	3.40
3	7311.00	55.46	PK	74.00	1.00 V	0	46.06	36.1	8.60	35.3	9.40
3	7311.00	40.57	AV	54.00	1.00 V	0	31.17	36.1	8.60	35.3	9.40
4	9748.00	52.36	PK	74.00	1.00 V	180	39.76	37.2	10.20	34.8	12.60
4	9748.00	42.89	AV	54.00	1.00 V	180	30.29	37.2	10.20	34.8	12.60

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor
 3. The other emission levels were very low against the limit.
 4. Margin value = Limit value- Emission level.
 5. The limit value is defined as per 15.247
 6. "*" : Fundamental frequency

Company	HUAWEI TECHNOLOGIES CO.,LTD.	Test Date	12/12/2010
Test Mode	802.11n (20MHz) Channel 11	Detector Function	Peak(PK)/Average(AV)
Product Name	Home Gateway	Test By	Eric Zhang
Model Name	HUAWEI HG655b	TEMP&Humidity	25°C, 55%

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	*2462.00	96.84	PK		1.00 H	122	100.14	28.2	5.10	36.6	-3.30
1	*2462.00	87.73	AV		1.00 H	122	91.03	28.2	5.10	36.6	-3.30
2	2483.50	45.50	PK	74.00	1.00 H	300	48.80	28.2	5.10	36.6	-3.30
2	2483.50	37.65	AV	54.00	1.00 H	300	40.95	28.2	5.10	36.6	-3.30
3	4924.00	49.28	PK	74.00	1.00 H	156	45.48	33.0	7.00	36.2	3.80
3	4924.00	35.00	AV	54.00	1.00 H	156	31.20	33.0	7.00	36.2	3.80
4	7386.00	50.36	PK	74.00	1.00 H	334	40.96	36.2	8.50	35.3	9.40
4	7386.00	39.12	AV	54.00	1.00 H	334	29.72	36.2	8.50	35.3	9.40
5	9848.00	52.17	PK	74.00	1.00 H	278	39.57	37.3	10.10	34.8	12.60
5	9848.00	40.23	AV	54.00	1.00 H	278	27.63	37.3	10.10	34.8	12.60

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	*2462.00	103.54	PK		1.00 V	125	106.84	28.2	5.10	36.6	-3.30
1	*2462.00	88.32	AV		1.00 V	125	91.62	28.2	5.10	36.6	-3.30
2	2483.50	58.08	PK	74.00	1.00 V	189	61.38	28.2	5.10	36.6	-3.30
2	2483.50	37.91	AV	54.00	1.00 V	189	41.21	28.2	5.10	36.6	-3.30
3	4924.00	52.12	PK	74.00	1.00 V	347	48.32	33.0	7.00	36.2	3.80
3	4924.00	36.17	AV	54.00	1.00 V	347	32.37	33.0	7.00	36.2	3.80
4	7386.00	54.12	PK	74.00	1.00 V	12	44.72	36.2	8.50	35.3	9.40
4	7386.00	40.54	AV	54.00	1.00 V	12	31.14	36.2	8.50	35.3	9.40
5	9848.00	54.10	PK	74.00	1.00 V	208	41.50	37.3	10.10	34.8	12.60
5	9848.00	41.23	AV	54.00	1.00 V	208	28.63	37.3	10.10	34.8	12.60

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor
 3. The other emission levels were very low against the limit.
 4. Margin value = Limit value - Emission level.
 5. The limit value is defined as per 15.247
 6. " * " : Fundamental frequency

The frequency spectrum above 1 GHz for Transmitter was investigated. All emission not reported are much lower than the prescribed limits. Set the RBW=1MHz,VBW=3MHz for Peak Detector while the RBW=1MHz,VBW=10Hz for Average Detector,Readings are both peak and average values.

Company	HUAWEI TECHNOLOGIES CO.,LTD.	Test Date	12/12/2010
Test Mode	802.11n (40MHz) Channel 3	Detector Function	Peak(PK)/Average(AV)
Product Name	Home Gateway	Test By	Eric Zhang
Model Name	HUAWEI HG655b	TEMP&Humidity	25°C, 55%

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	2390.00	65.16 PK	74.00	8.84	1.00 H	236	68.46	28.3	5.00	36.6	-3.30
1	2390.00	37.13 AV	54.00	16.87	1.00 H	236	40.43	28.3	5.00	36.6	-3.30
2	*2422.00	100.03 PK			1.00 H	100	103.33	28.3	5.00	36.6	-3.30
2	*2422.00	82.21 AV			1.00 H	100	85.51	28.3	5.00	36.6	-3.30
3	4844.00	50.88 PK	74.00	23.12	1.00 H	197	47.08	32.7	7.30	36.2	3.80
3	4844.00	40.26 AV	54.00	13.74	1.00 H	197	36.46	32.7	7.30	36.2	3.80
4	7266.00	53.00 PK	74.00	21.00	1.00 H	306	43.60	35.8	8.90	35.3	9.40
4	7266.00	41.08 AV	54.00	12.92	1.00 H	306	31.68	35.8	8.90	35.3	9.40
5	9688.00	54.72 PK	74.00	19.28	1.00 H	17	42.12	37.2	10.20	34.8	12.60
5	9688.00	42.25 AV	54.00	11.75	1.00 H	17	29.65	37.2	10.20	34.8	12.60

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	2390.00	69.89 PK	74.00	4.11	1.00 V	122	73.19	28.3	5.00	36.6	-3.30
1	2390.00	38.06 AV	54.00	15.94	1.00 V	122	41.36	28.3	5.00	36.6	-3.30
2	*2422.00	103.44 PK			1.00 V	189	106.74	28.3	5.00	36.6	-3.30
2	*2422.00	83.93 AV			1.00 V	189	87.23	28.3	5.00	36.6	-3.30
3	4844.00	52.77 PK	74.00	21.23	1.00 V	257	48.97	32.7	7.30	36.2	3.80
3	4844.00	40.03 AV	54.00	13.97	1.00 V	257	36.23	32.7	7.30	36.2	3.80
4	7266.00	53.89 PK	74.00	20.11	1.00 V	155	44.49	35.8	8.90	35.3	9.40
4	7266.00	41.56 AV	54.00	12.44	1.00 V	155	32.16	35.8	8.90	35.3	9.40
5	9688.00	55.99 PK	74.00	18.01	1.00 V	334	43.39	37.2	10.20	34.8	12.60
5	9688.00	43.14 AV	54.00	10.86	1.00 V	334	30.54	37.2	10.20	34.8	12.60

- REMARKS:**
1. Emission level (dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) -Pre-amplifier Factor
 3. The other emission levels were very low against the limit.
 4. Margin value = Limit value- Emission level.
 5. The limit value is defined as per 15.247
 6. “* “: Fundamental frequency

Company	HUAWEI TECHNOLOGIES CO.,LTD.	Test Date	12/12/2010
Test Mode	802.11n (40MHz) Channel 6	Detector Function	Peak(PK)/Average(AV)
Product Name	Home Gateway	Test By	Eric Zhang
Model Name	HUAWEI HG655b	TEMP&Humidity	25°C, 55%

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	*2437.00	99.15	PK		1.00 H	100	102.35	28.3	5.10	36.6	-3.20
1	*2437.00	84.36	AV		1.00 H	100	87.56	28.3	5.10	36.6	-3.20
2	4874.00	49.11	PK	74.00	1.00 H	198	45.71	32.3	7.60	36.5	3.40
2	4874.00	38.82	AV	54.00	1.00 H	198	35.42	32.3	7.60	36.5	3.40
3	7311.00	52.22	PK	74.00	1.00 H	203	42.82	36.1	8.60	35.3	9.40
3	7311.00	41.00	AV	54.00	1.00 H	203	31.60	36.1	8.60	35.3	9.40
4	9748.00	53.91	PK	74.00	1.00 H	56	41.31	37.2	10.20	34.8	12.60
4	9748.00	42.17	AV	54.00	1.00 H	56	29.57	37.2	10.20	34.8	12.60

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	*2437.00	101.14	PK		1.00 V	122	104.34	28.3	5.10	36.6	-3.20
1	*2437.00	86.51	AV		1.00 V	122	89.71	28.3	5.10	36.6	-3.20
2	4874.00	49.99	PK	74.00	1.00 V	96	46.59	32.3	7.60	36.5	3.40
2	4874.00	38.97	AV	54.00	1.00 V	96	35.57	32.3	7.60	36.5	3.40
3	7311.00	54.36	PK	74.00	1.00 V	26	44.96	36.1	8.60	35.3	9.40
3	7311.00	40.57	AV	54.00	1.00 V	26	31.17	36.1	8.60	35.3	9.40
4	9748.00	52.79	PK	74.00	1.00 V	299	40.19	37.2	10.20	34.8	12.60
4	9748.00	42.07	AV	54.00	1.00 V	299	29.47	37.2	10.20	34.8	12.60

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor
 3. The other emission levels were very low against the limit.
 4. Margin value = Limit value- Emission level.
 5. The limit value is defined as per 15.247
 6. "*" : Fundamental frequency

Company	HUAWEI TECHNOLOGIES CO.,LTD.	Test Date	12/12/2010
Test Mode	802.11n (40MHz) Channel 9	Detector Function	Peak(PK)/Average(AV)
Product Name	Home Gateway	Test By	Eric Zhang
Model Name	HUAWEI HG655b	TEMP&Humidity	25°C, 55%

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	*2452.00	95.09 PK			1.00 H	125	98.29	28.2	5.20	36.6	-3.20
1	*2452.00	83.71 AV			1.00 H	125	85.91	28.2	5.20	36.6	-3.20
2	2483.50	54.61 PK	74.00	19.39	1.00 H	312	57.91	28.2	5.10	36.6	-3.30
2	2483.50	39.24 AV	54.00	14.76	1.00 H	312	42.54	28.2	5.10	36.6	-3.30
3	4904.00	49.97 PK	74.00	24.03	1.00 H	258	46.17	33.0	7.00	36.2	3.80
3	4904.00	35.67 AV	54.00	18.33	1.00 H	258	31.87	33.0	7.00	36.2	3.80
4	7356.00	51.12 PK	74.00	22.88	1.00 H	12	41.72	36.2	8.50	35.3	9.40
4	7356.00	39.99 AV	54.00	14.01	1.00 H	12	30.59	36.2	8.50	35.3	9.40
5	9808.00	52.72 PK	74.00	21.28	1.00 H	100	40.12	37.3	10.10	34.8	12.60
5	9808.00	41.23 AV	54.00	12.77	1.00 H	100	28.63	37.3	10.10	34.8	12.60

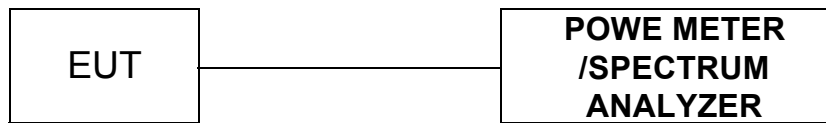
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	*2452.00	100.99 PK			1.00 V	125	104.19	28.2	5.20	36.6	-3.20
1	*2452.00	84.50 AV			1.00 V	125	87.70	28.2	5.20	36.6	-3.20
2	2483.50	61.38 PK	74.00	12.62	1.00 V	300	64.68	28.2	5.10	36.6	-3.30
2	2483.50	39.63 AV	54.00	14.37	1.00 V	300	42.93	28.2	5.10	36.6	-3.30
3	4904.00	53.56 PK	74.00	20.44	1.00 V	346	49.76	33.0	7.00	36.2	3.80
3	4904.00	37.15 AV	54.00	16.85	1.00 V	346	33.35	33.0	7.00	36.2	3.80
4	7356.00	54.99 PK	74.00	19.01	1.00 V	157	45.59	36.2	8.50	35.3	9.40
4	7356.00	41.47 AV	54.00	12.53	1.00 V	157	32.07	36.2	8.50	35.3	9.40
5	9808.00	55.51 PK	74.00	18.49	1.00 V	287	42.91	37.3	10.10	34.8	12.60
5	9808.00	42.12 AV	54.00	11.88	1.00 V	287	29.52	37.3	10.10	34.8	12.60

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor
 3. The other emission levels were very low against the limit.
 4. Margin value = Limit value - Emission level.
 5. The limit value is defined as per 15.247
 6. " * " : Fundamental frequency

4.3. Maximum Peak Output Power

TEST CONFIGURATION



TEST PROCEDURE

According to C63.10 -2009, The EUT was directly connected to the power meter / spectrum analyzer and antenna output port as show in the block diagram as TEST CONFIGURATION shows.

1. For IEEE 802.11b/g and IEEE802.11n HT20 mode, use a PK power meter which's bandwidth is above 26dB bandwidth of signal to measure out each test modes' PK output power.
2. Spectrum analyzer only used for 802.11n HT40 measurement.

LIMIT

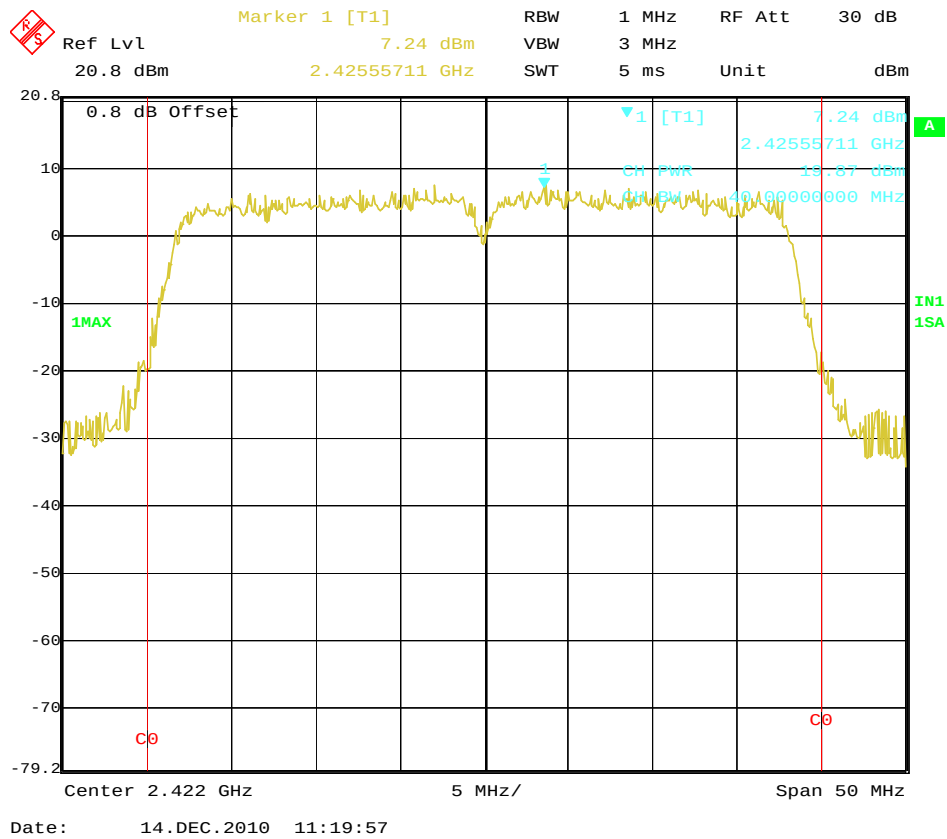
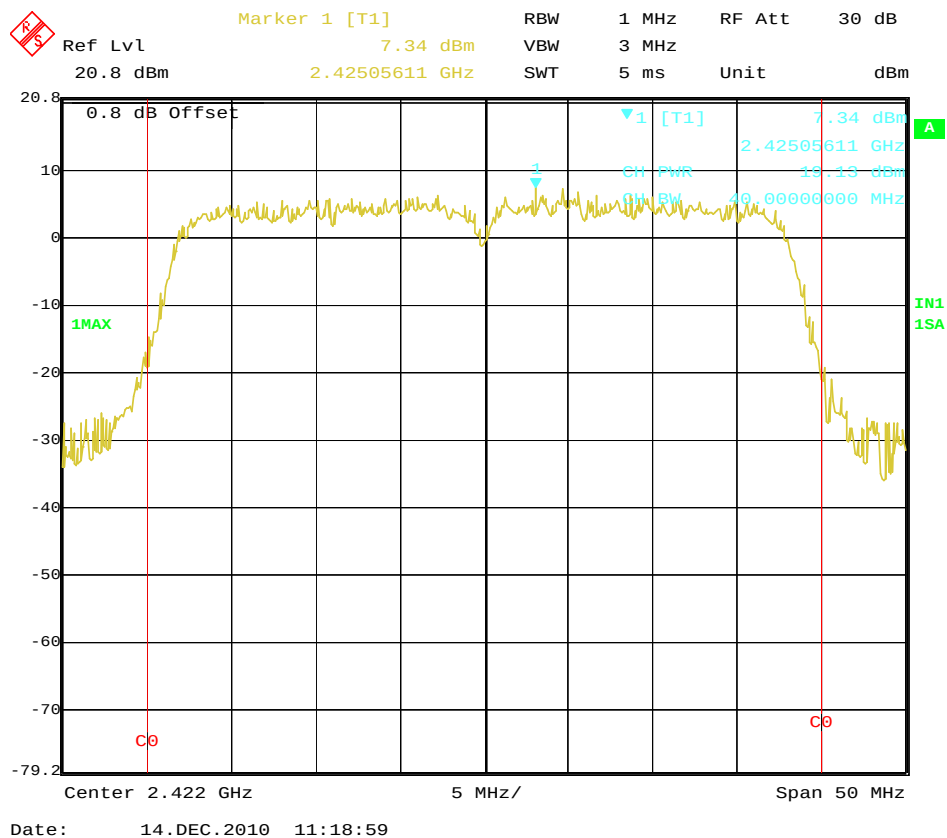
The Maximum Peak Output Power Measurement is 30dBm.

TEST RESULTS

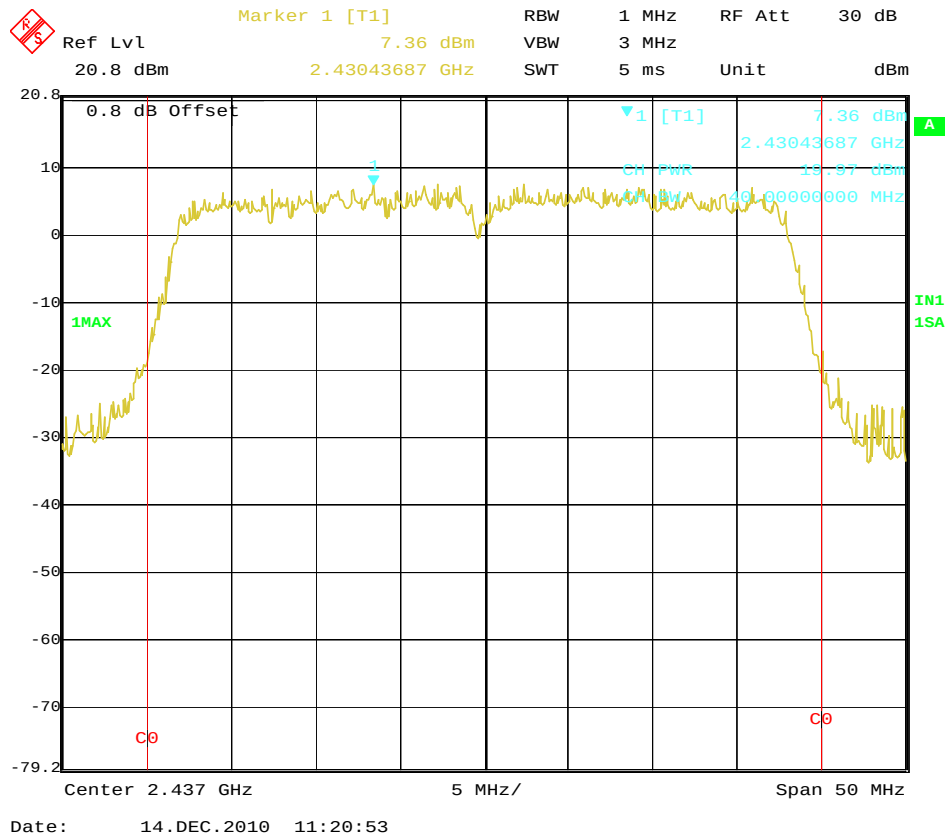
Company	HUAWEI TECHNOLOGIES CO.,LTD.	Test Date	12/12/2010
Product Name	Home Gateway	Test By	Eric Zhang
Model Name	HUAWEI HG655b	TEMP&Humidity	25°C, 55%

Mode	Channel	Peak Power Output (dBm)			Peak Power Limit (dBm)	PASS / FAIL
		Ant1	Ant 2	Total		
802.11b	1	22.27	22.16	N/A	30	PASS
	6	22.73	22.74	N/A	30	PASS
	11	22.52	22.52	N/A	30	PASS
802.11g	1	21.33	21.48	N/A	30	PASS
	6	21.88	21.25	N/A	30	PASS
	11	21.51	21.68	N/A	30	PASS
802.11n HT20	1	20.44	20.79	23.63	30	PASS
	6	20.65	20.36	23.56	30	PASS
	11	20.41	20.71	23.57	30	PASS
802.11n HT40	3	19.87	19.13	22.53	30	PASS
	6	19.97	19.04	22.54	30	PASS
	9	19.89	19.07	22.51	30	PASS

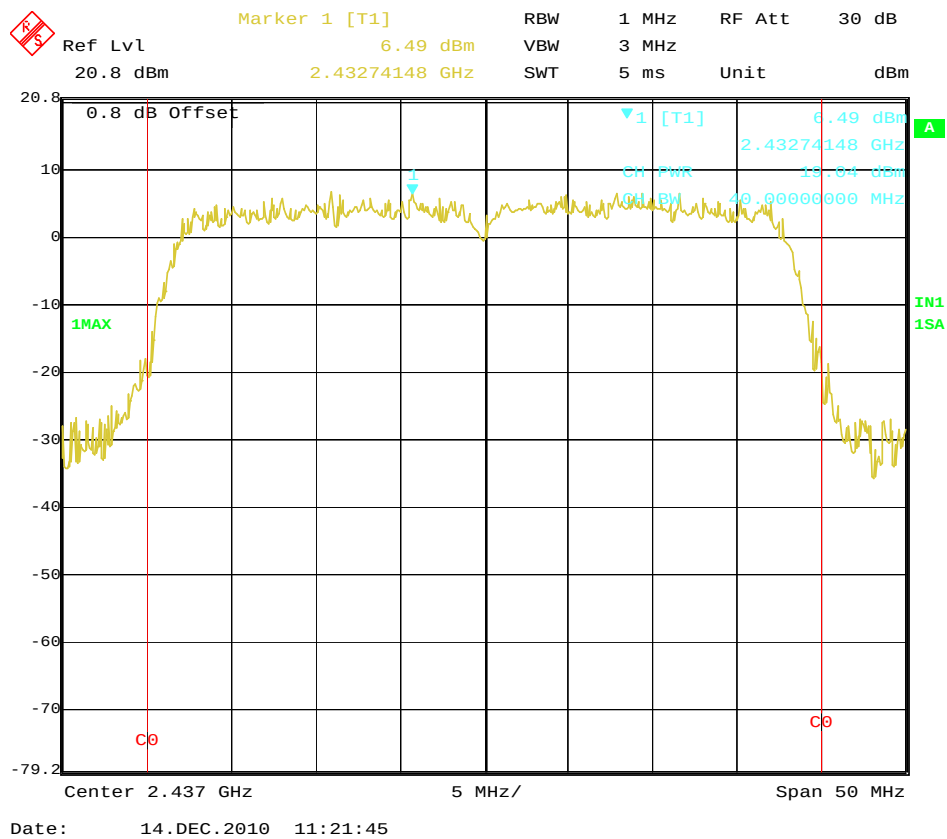
Note: The test results including the cable lose.

Plots of Maximum Peak Output Power Measurement**Note:** For 802.11N Mode(40MHz)**Channel 3 @ Antenna 1****Channel 3 @ Antenna 2**

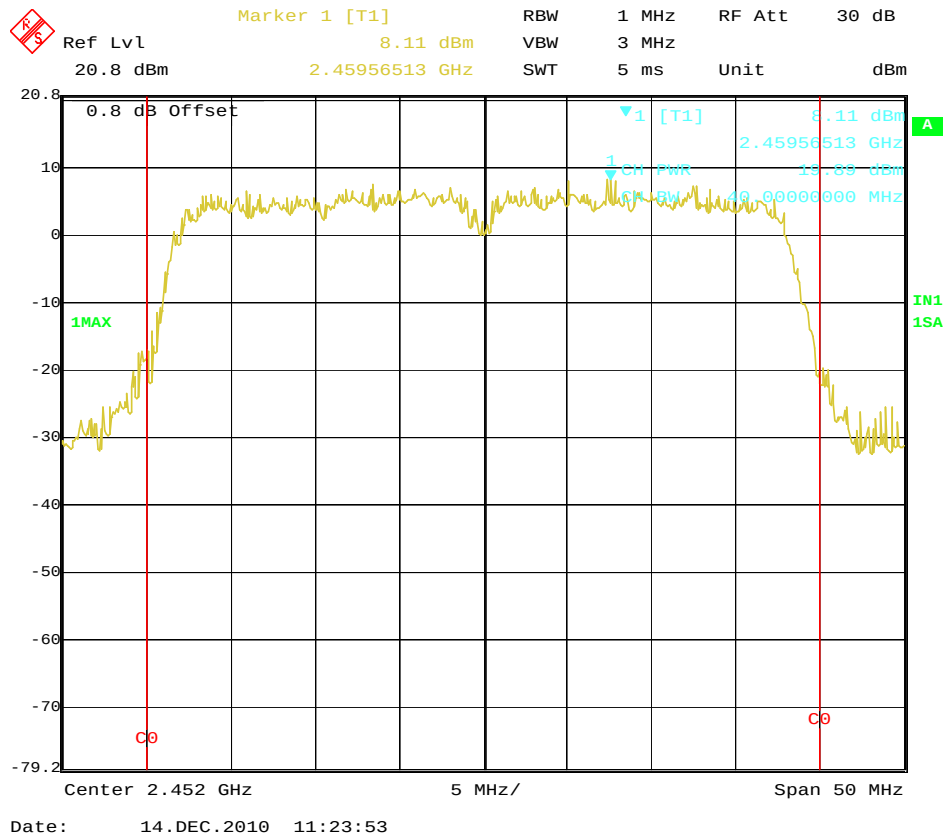
Channel 6 @ Antenna 1



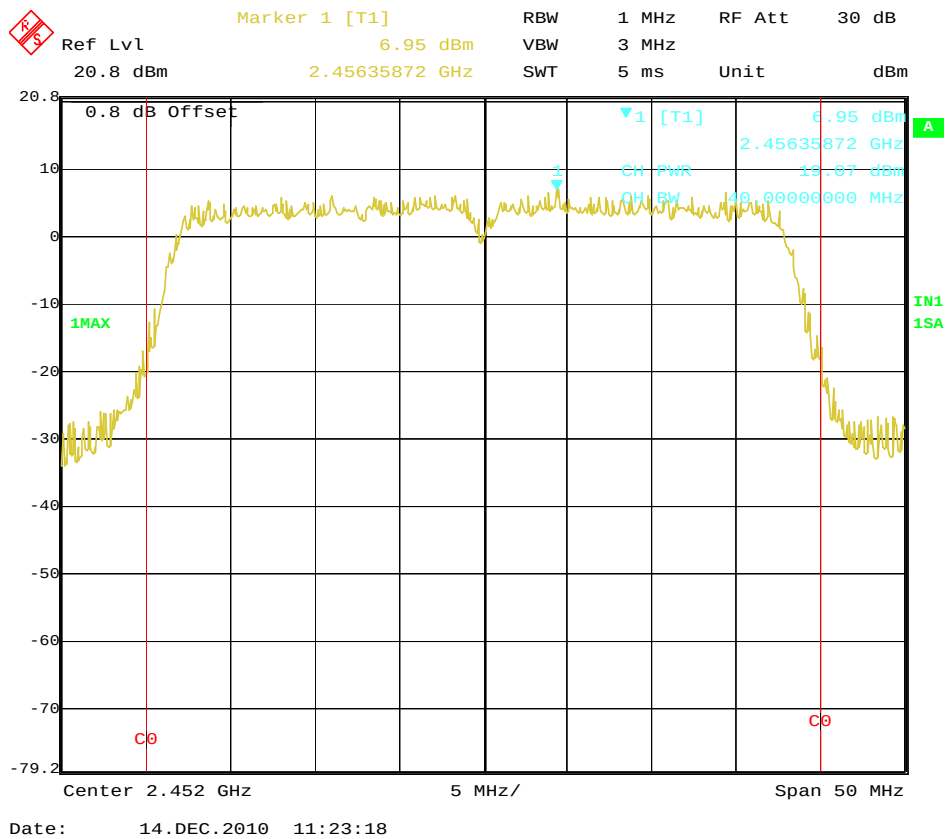
Channel 6 @ Antenna 2



Channel 9 @ Antenna 1

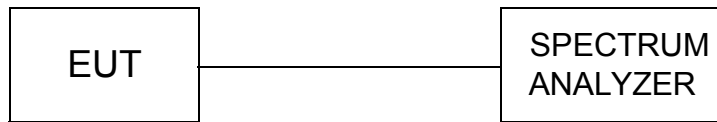


Channel 9 @ Antenna 2



4.4. Power Spectral Density

TEST CONFIGURATION



TEST PROCEDURE

1. Set CENTER FREQUENCY = Frequency from Power Spectral Density Test Matrix
2. Set SPAN = 20 MHz (For devices with a nominal 40 MHz BW, 50 MHz span will be needed)
3. Set REFERENCE LEVEL = 20 dBm
4. Set ATTENUATION = 0 dB (add internal attenuation, if necessary)
5. Set SWEEP TIME = Coupled
6. Set RBW = 3 kHz
7. Set VBW = 10 kHz
8. Set DETECTOR = Peak
9. Set MKR = Center Frequency
10. Set TRACE = CLEAR WRITE

Place the radio in continuous transmit mode. Set the TRACE to MAX HOLD, and after the trace stabilizes, the TRACE to VIEW. Set the marker on the peak of the signal and then adjust the center frequency of the spectrum analyzer to the marker frequency. After viewing the EUT waveform on the spectrum analyzer, perform the following spectrum analyzer functions to capture the trace:

11. Set SPAN = 300 kHz
12. Set SWEEP TIME = 100 s
13. Set TRACE = MAX HOLD
14. Set MKR = PEAK SEARCH
15. Record the marker level for the particular mode. Repeat these steps for other device modes.

LIMIT

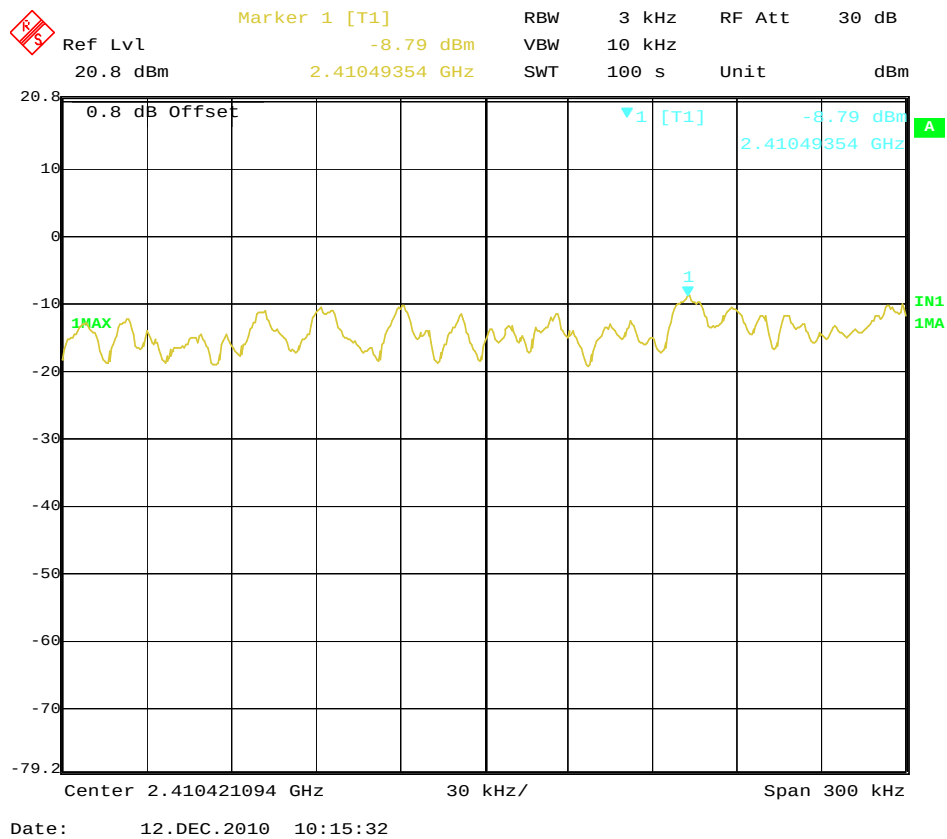
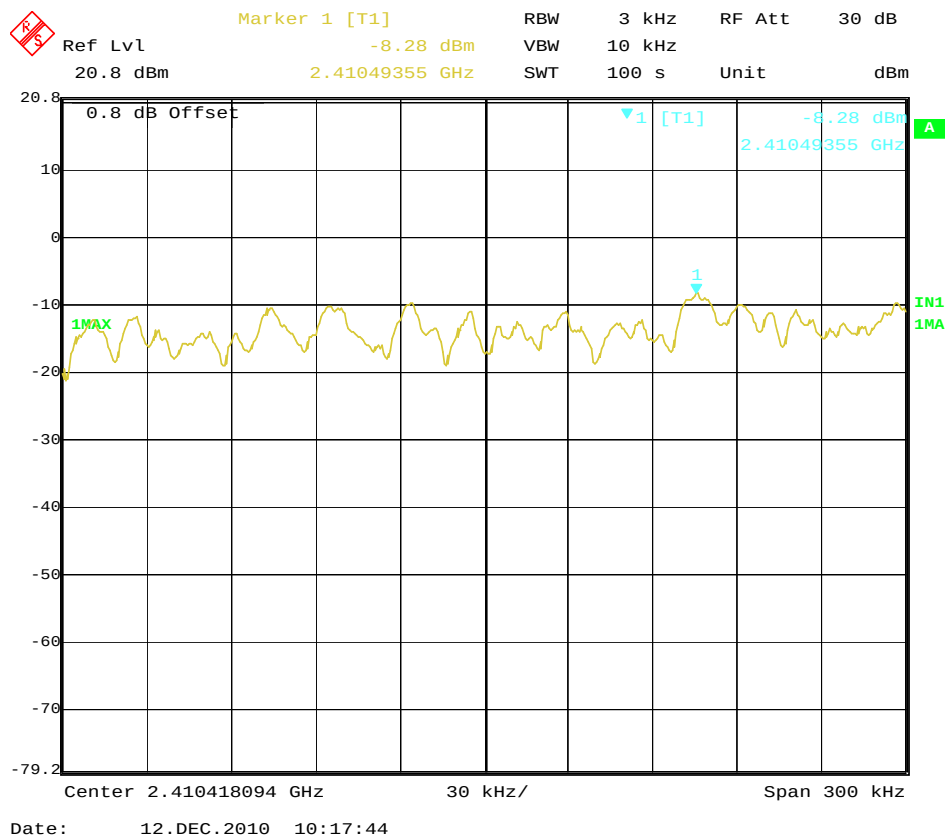
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

TEST RESULTS

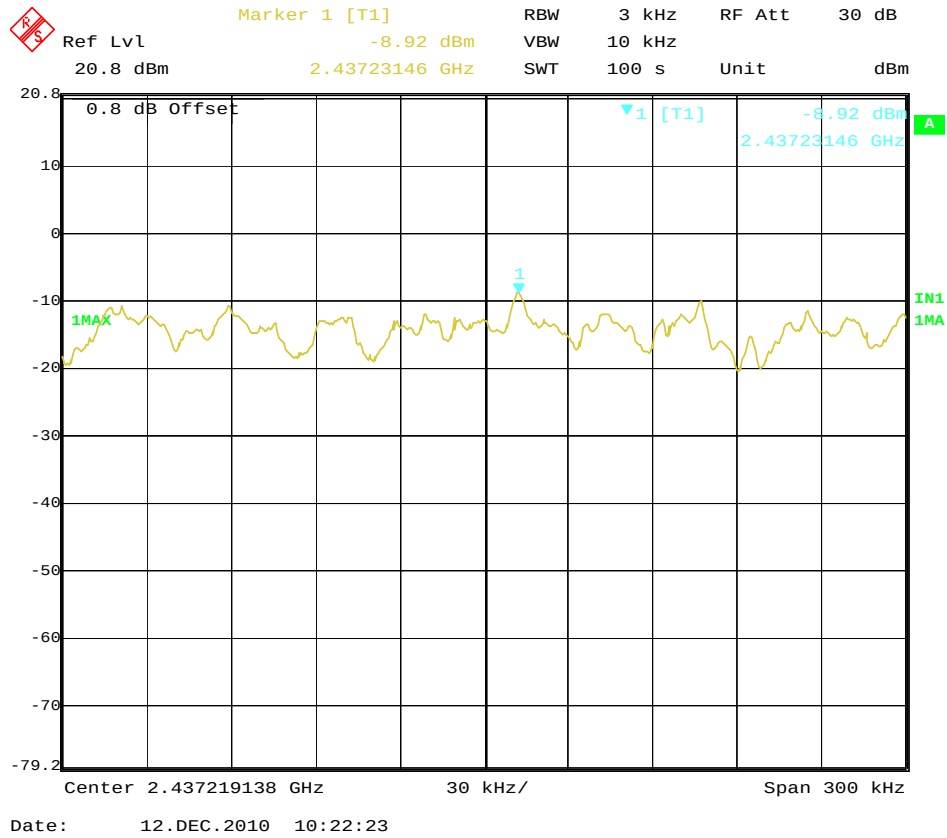
Company	HUAWEI TECHNOLOGIES CO.,LTD.	Test Date	12/12/2010
Product Name	Home Gateway	Test By	Eric Zhang
Model Name	HUAWEI HG655b	TEMP&Humidity	25°C, 55%

Channel	Channel Frequency (MHz)	RF power level in 3 KHz BW (dBm)			Maximum limit (dBm)	PASS / FAIL
		Ant1	Ant 2	Total		
1	2412	-8.79	-8.28	N/A	8	PASS
6	2437	-8.92	-8.41	N/A	8	PASS
11	2462	-8.41	-7.92	N/A	8	PASS
1	2412	-13.31	-13.27	N/A	8	PASS
6	2437	-13.86	-12.84	N/A	8	PASS
11	2462	-12.45	-12.02	N/A	8	PASS
1	2412	-14.21	-14.21	-11.20	8	PASS
6	2437	-12.84	-15.26	-10.87	8	PASS
11	2462	-12.74	-13.85	-10.25	8	PASS
3	2422	-17.58	-18.42	-14.97	8	PASS
6	2437	-17.16	-18.12	-14.60	8	PASS
9	2452	-17.05	-18.50	-14.70	8	PASS

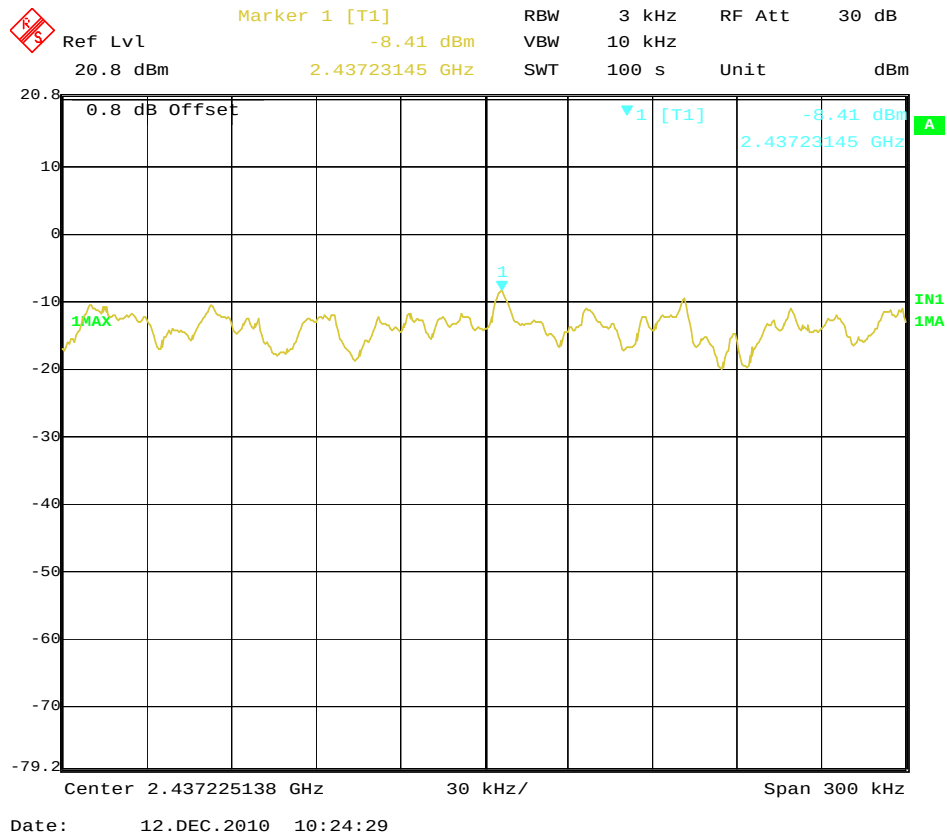
Note: The test results including the cable lose.

Plots of Power Spectral Density Measurement**Note:** For 802.11b Mode**Channel 1@ Antenna 1****Channel 1@ Antenna 2**

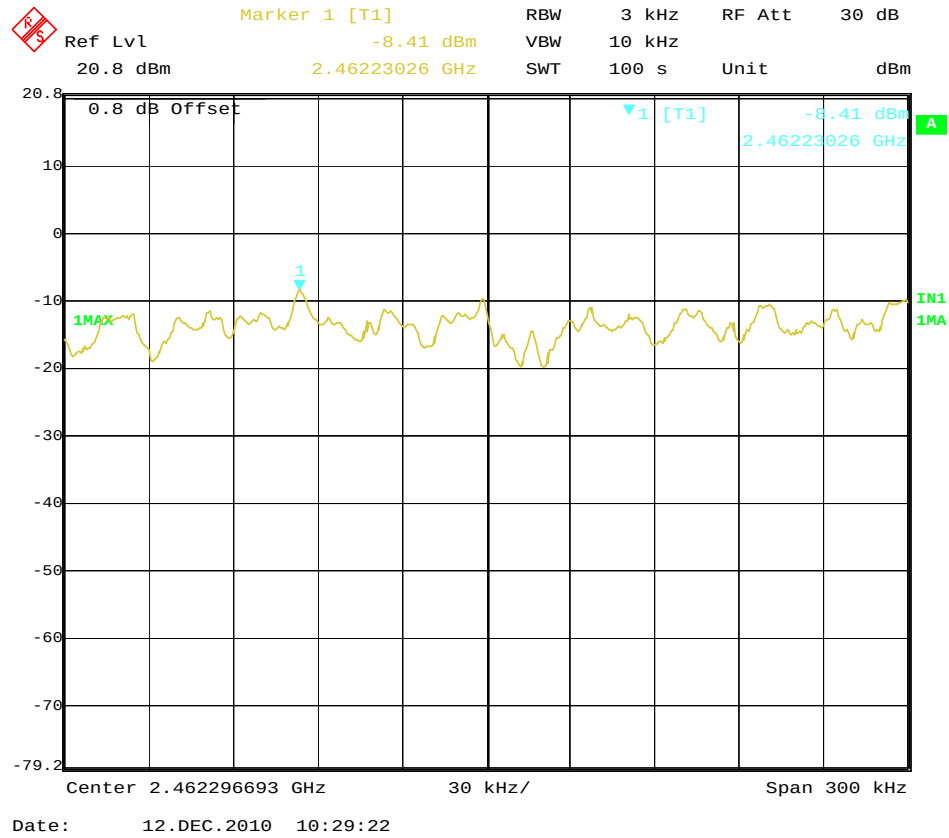
Channel 6 @ Antenna 1



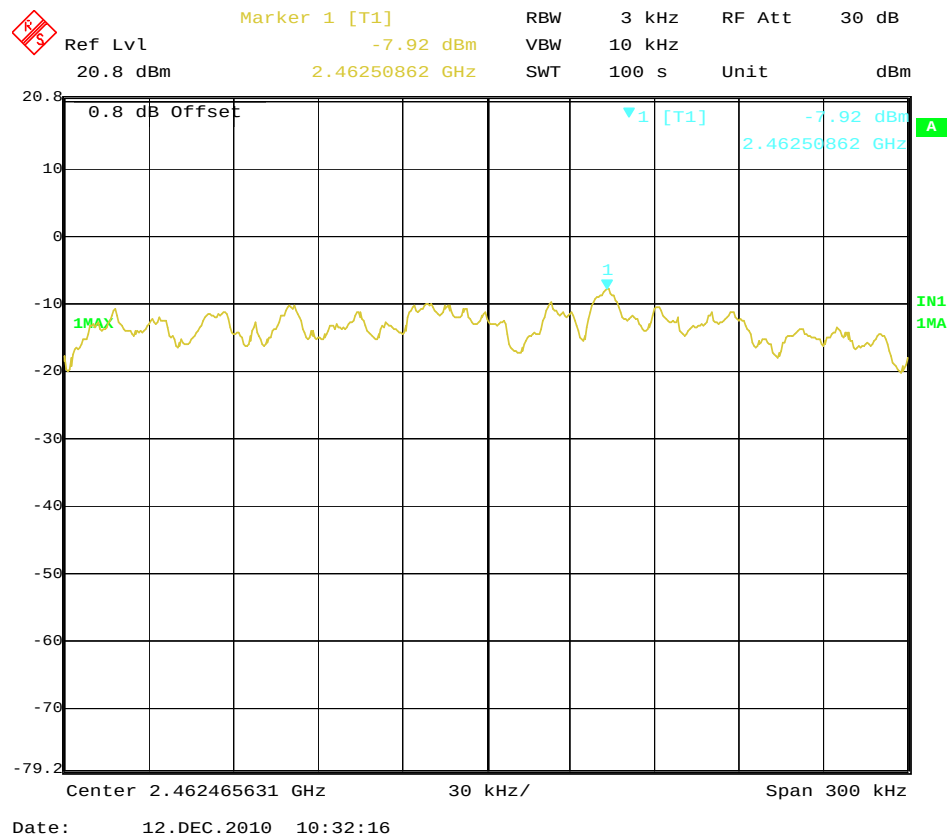
Channel 6 @ Antenna 2



Channel 11@ Antenna 1

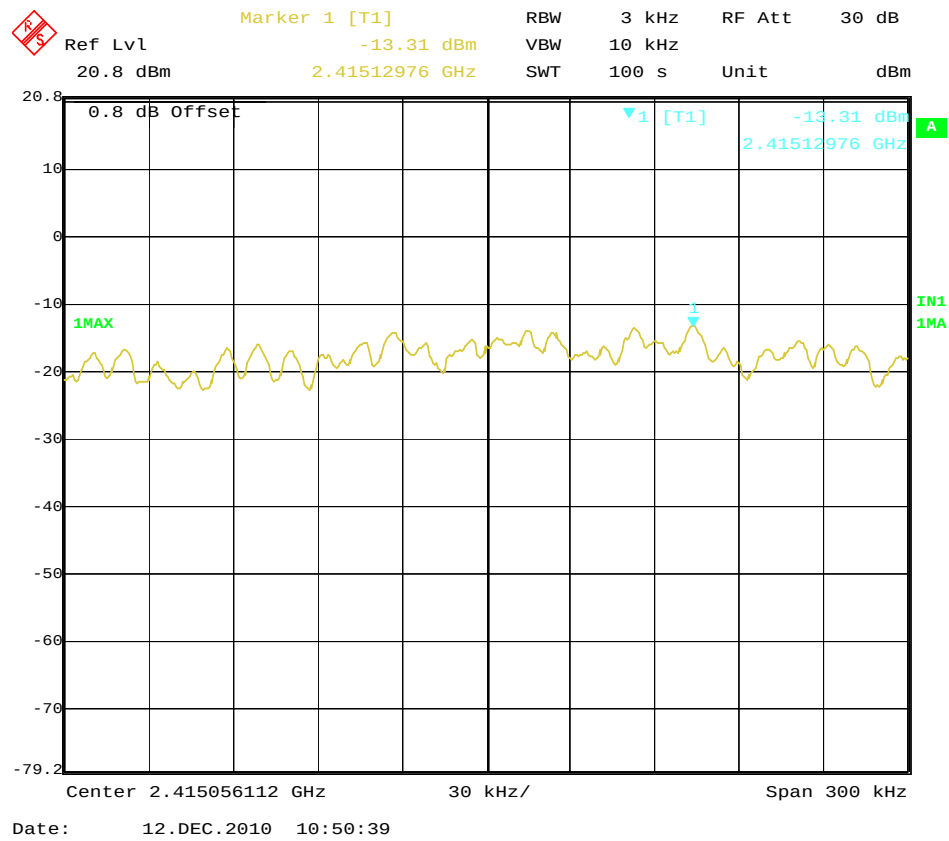


Channel 11@ Antenna 2

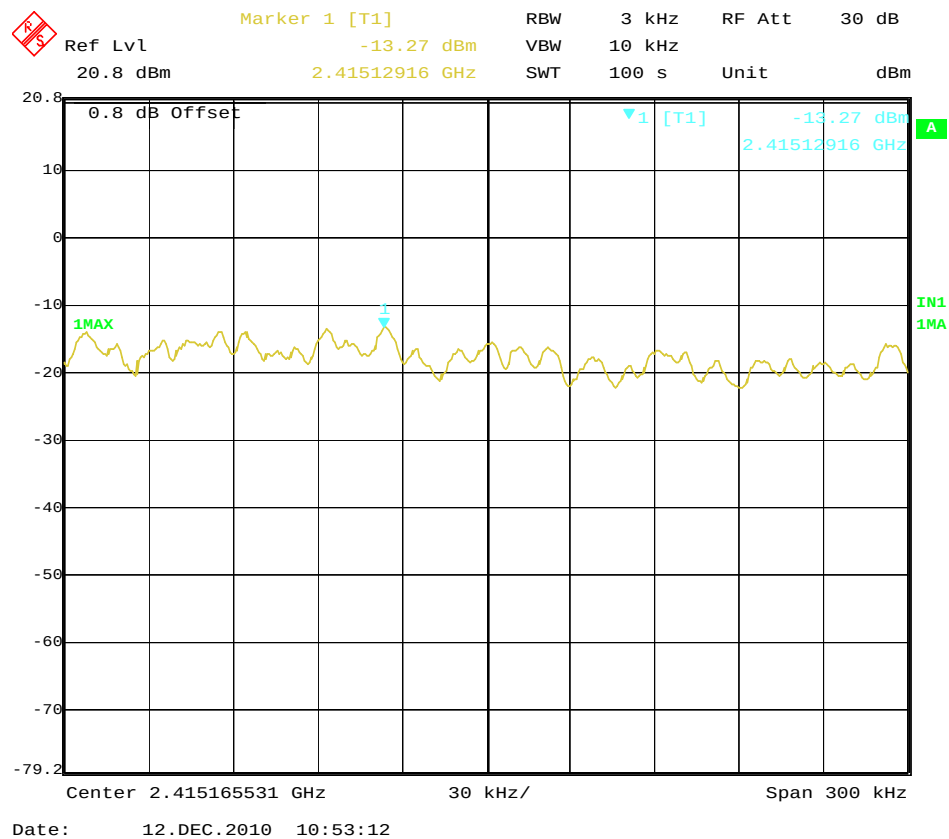


Note: For 802.11g Mode

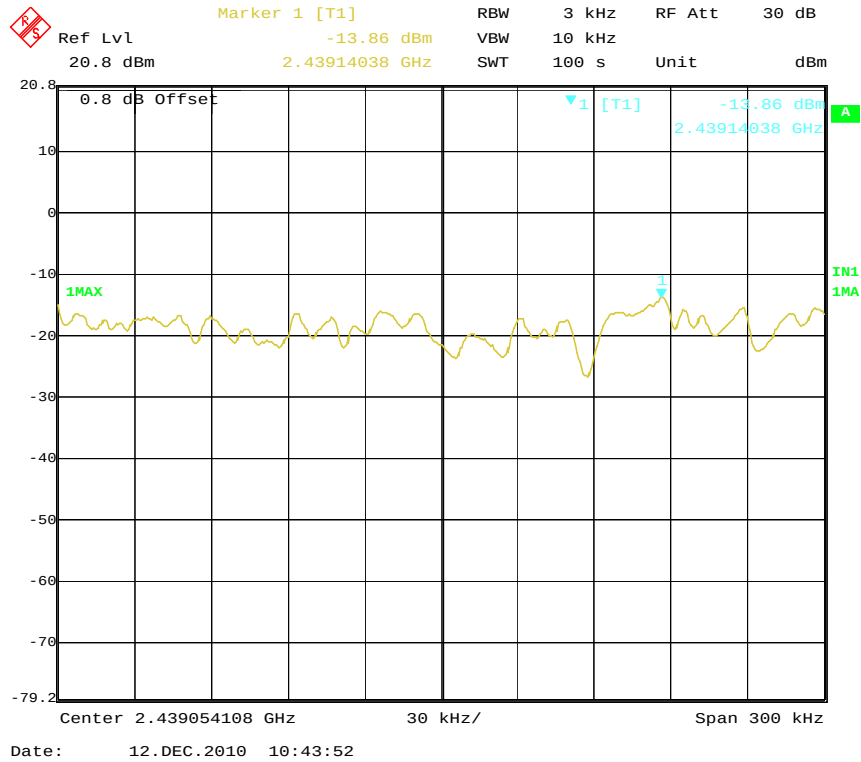
Channel 1@ Antenna 1



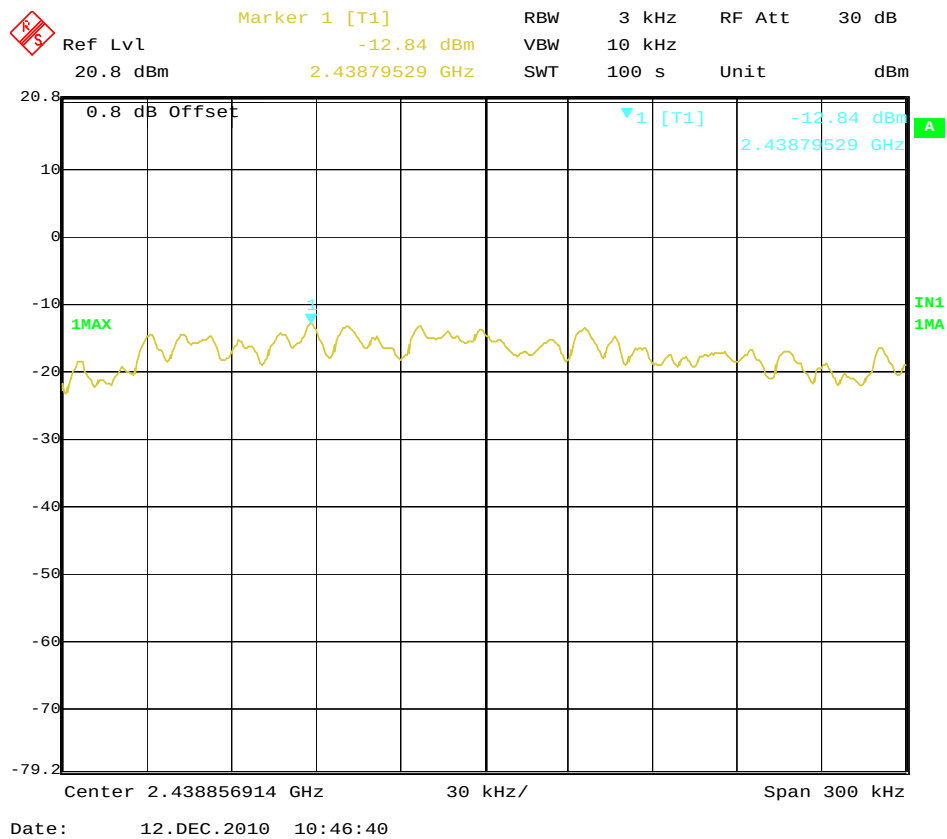
Channel 1@ Antenna 2



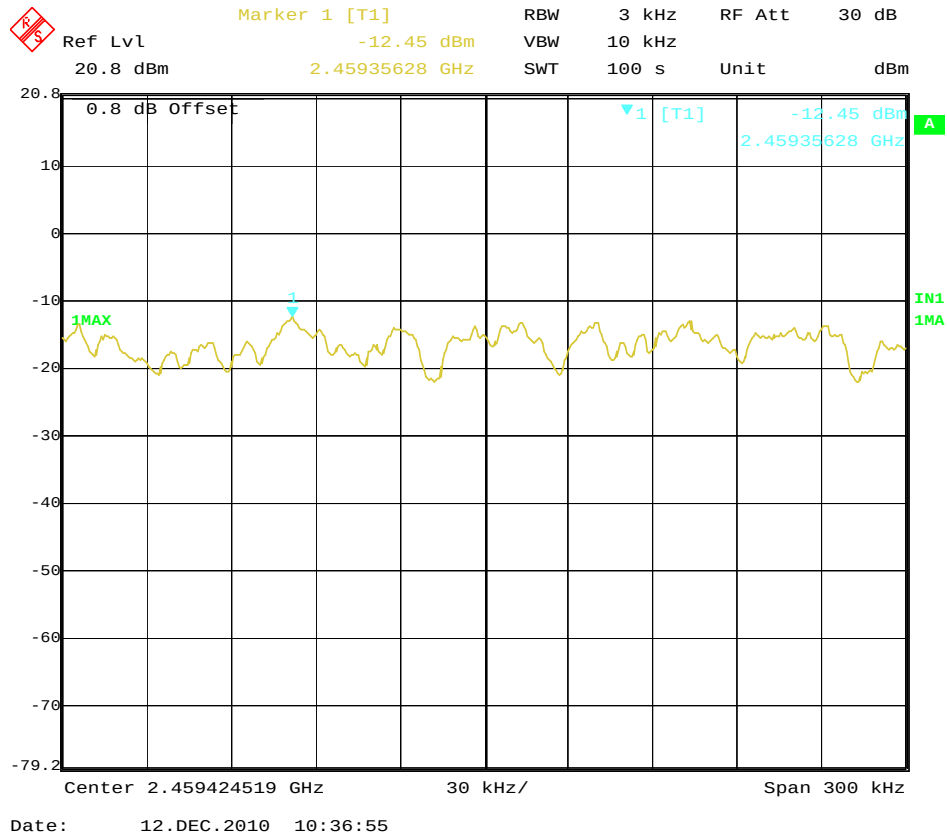
Channel 6@ Antenna 1



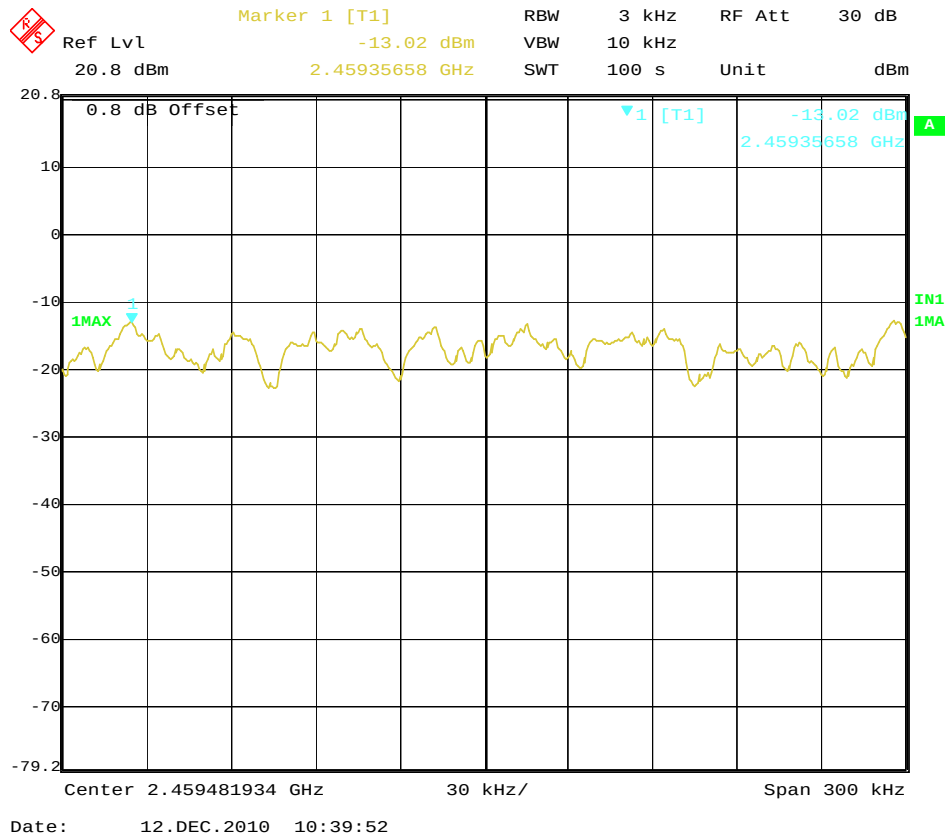
Channel 6@ Antenna 2



Channel 11@ Antenna 1

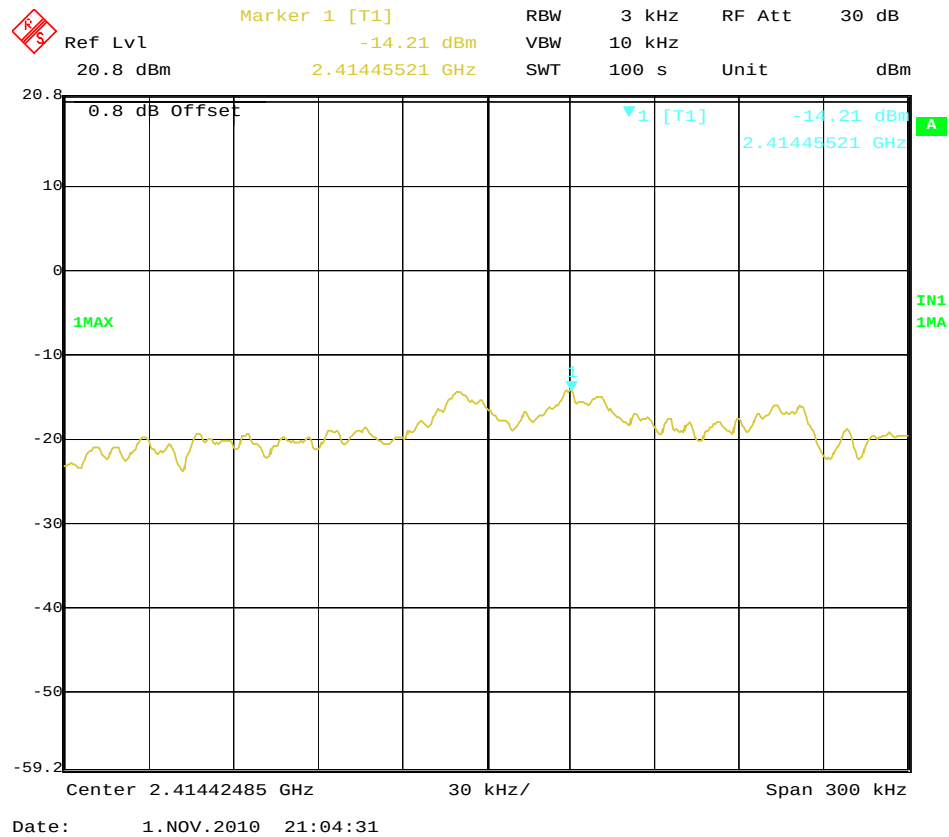


Channel 11@ Antenna 2

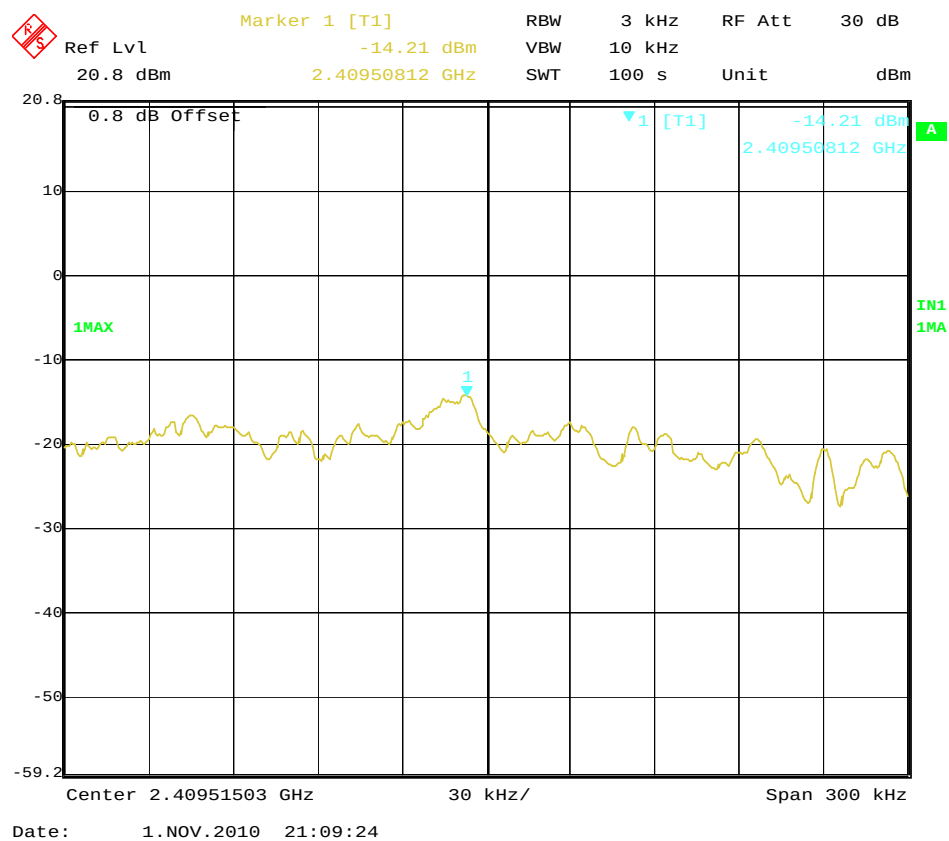


Note: For 802.11n (20MHz) Mode

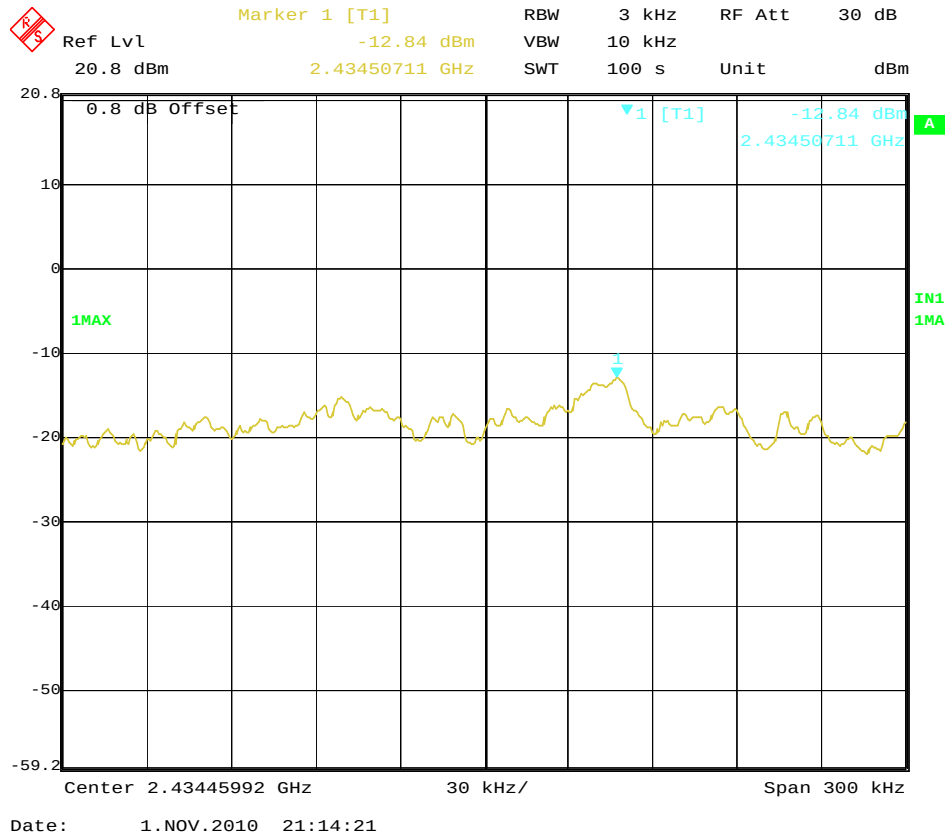
Channel 1 @ Antenna 1



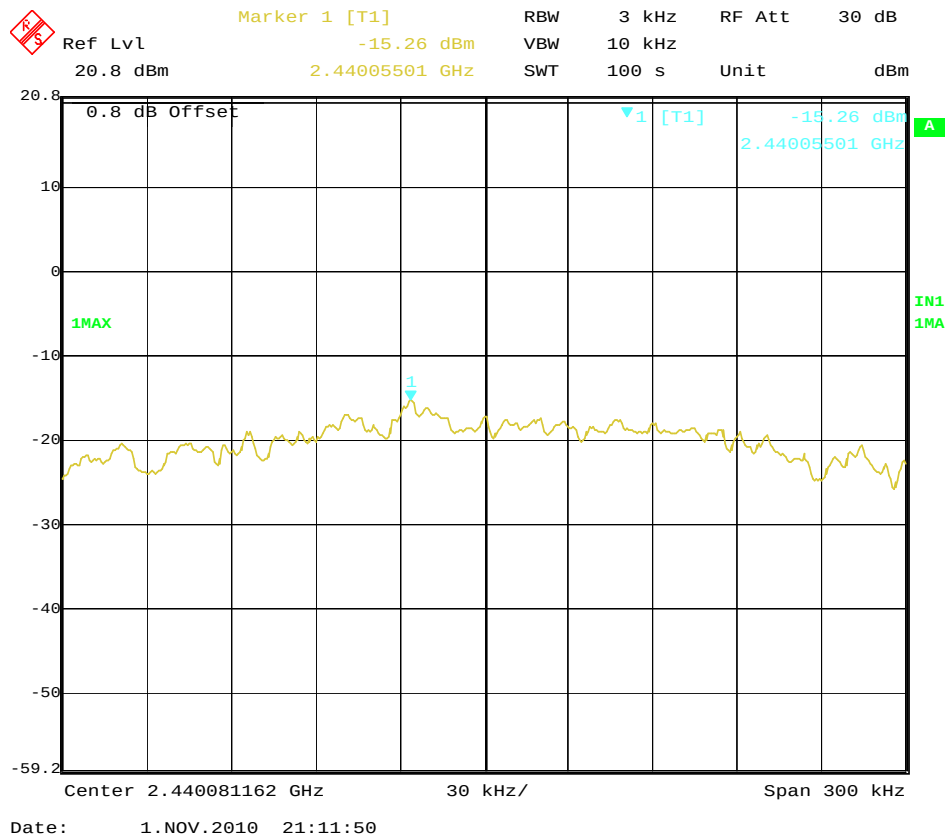
Channel 1 @ Antenna 2



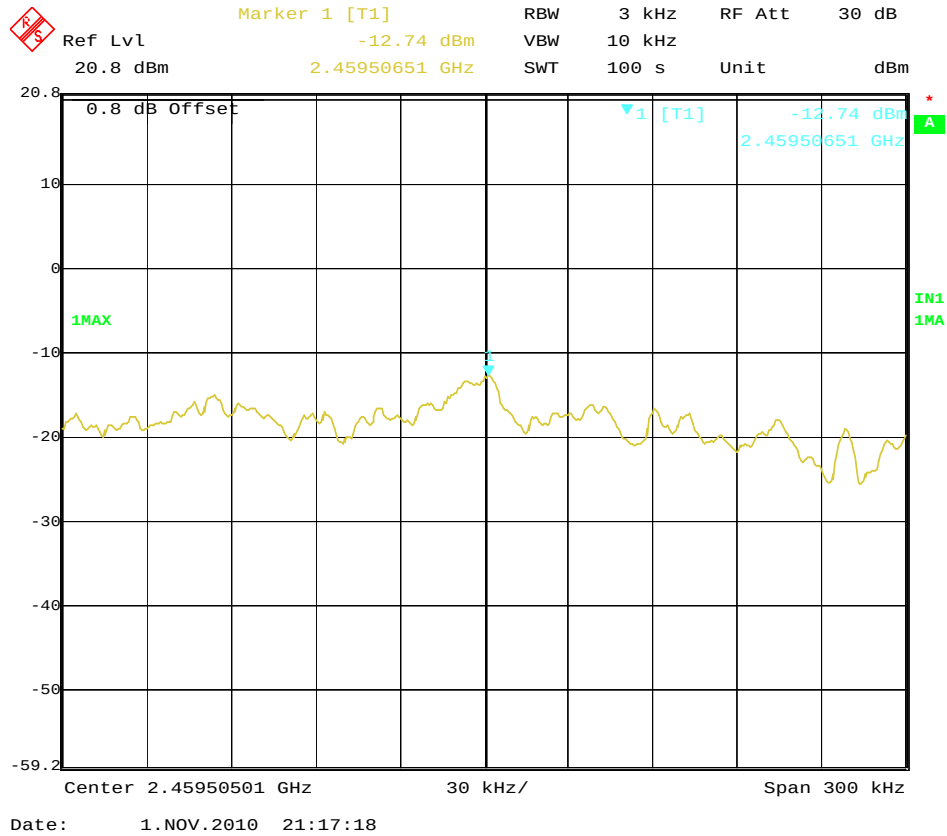
Channel 6 @ Antenna 1



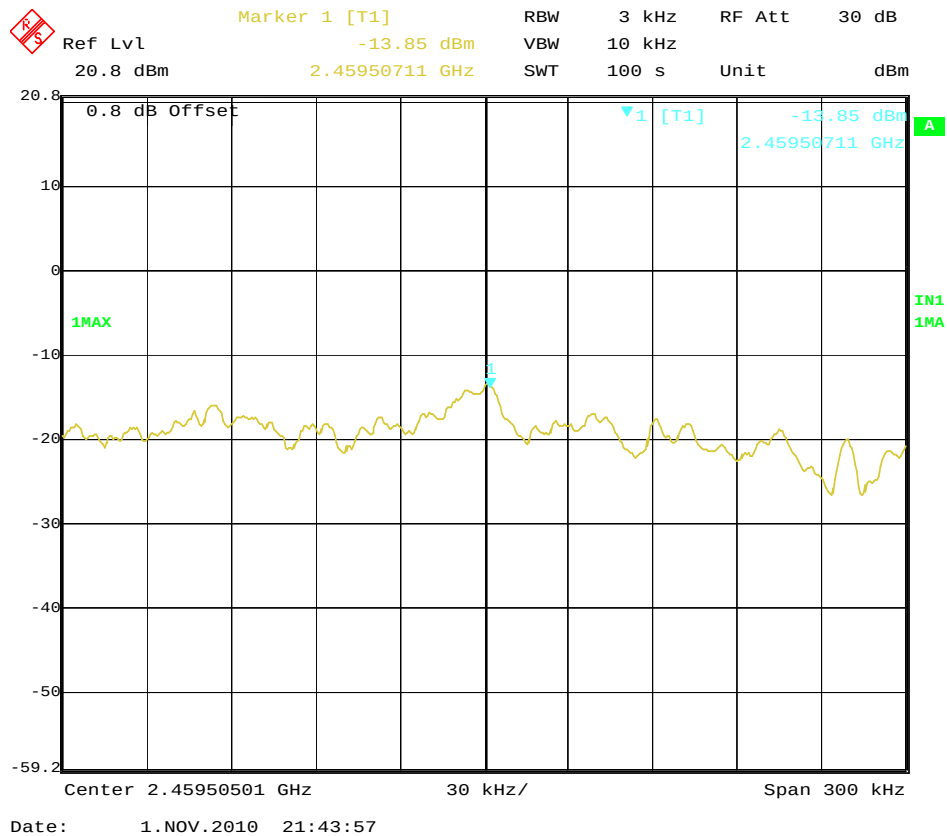
Channel 6 @ Antenna 2



Channel 11 @ Antenna 1

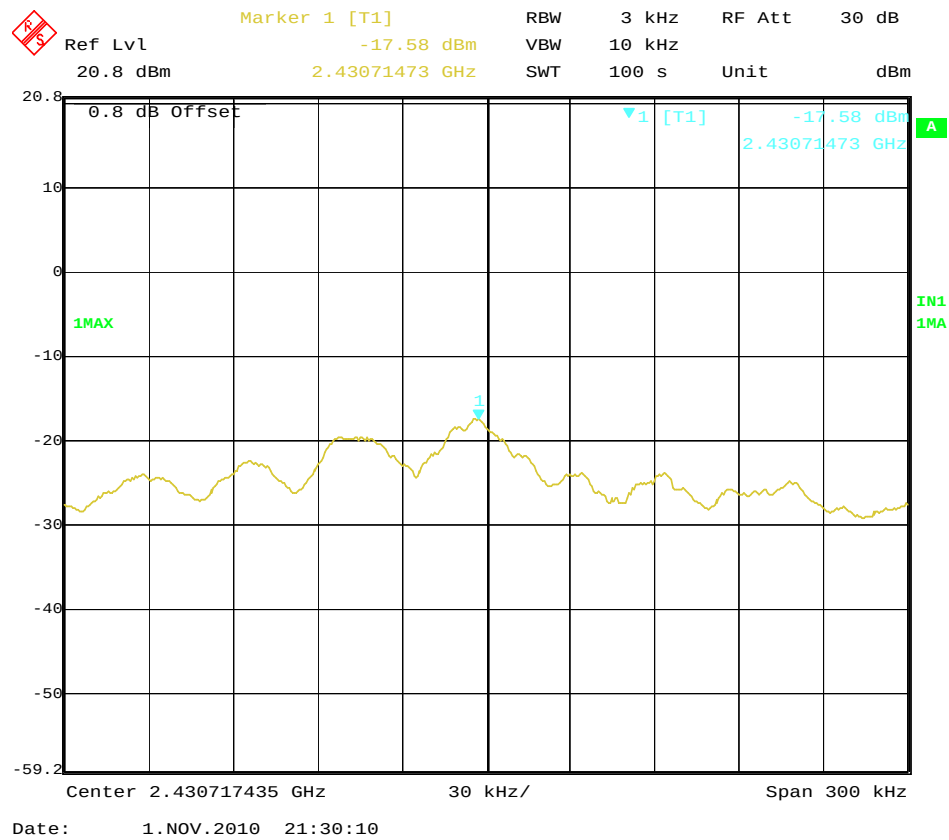


Channel 11 @ Antenna 2

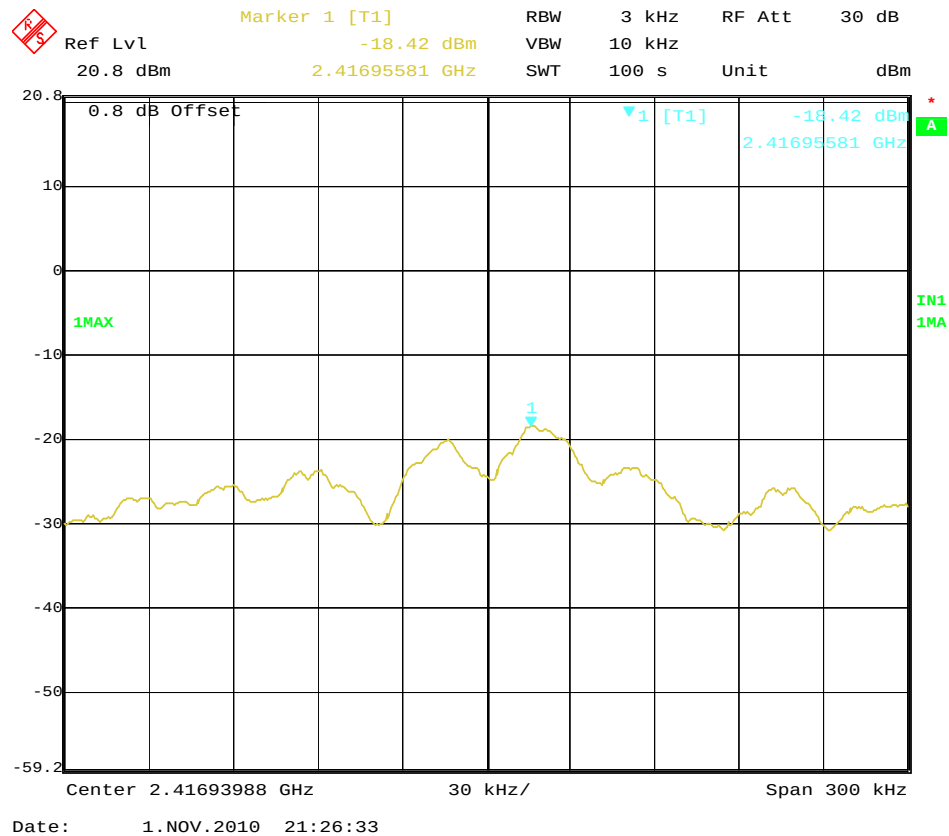


Note: For 802.11n (40MHz) Mode

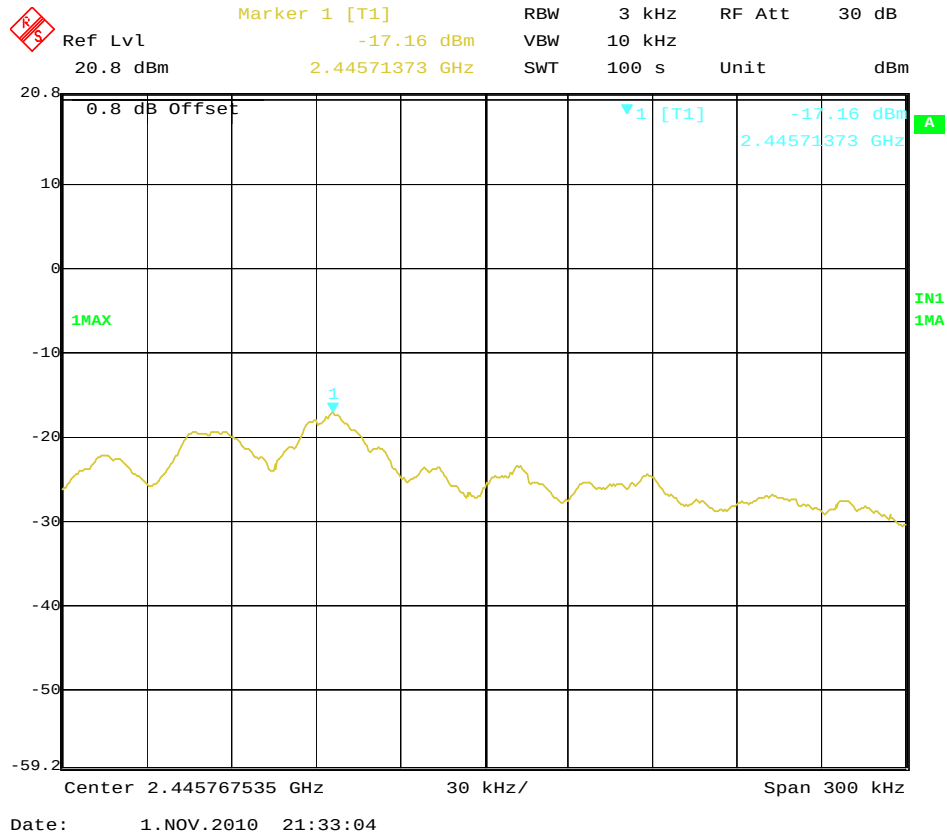
Channel 3 @ Antenna 1



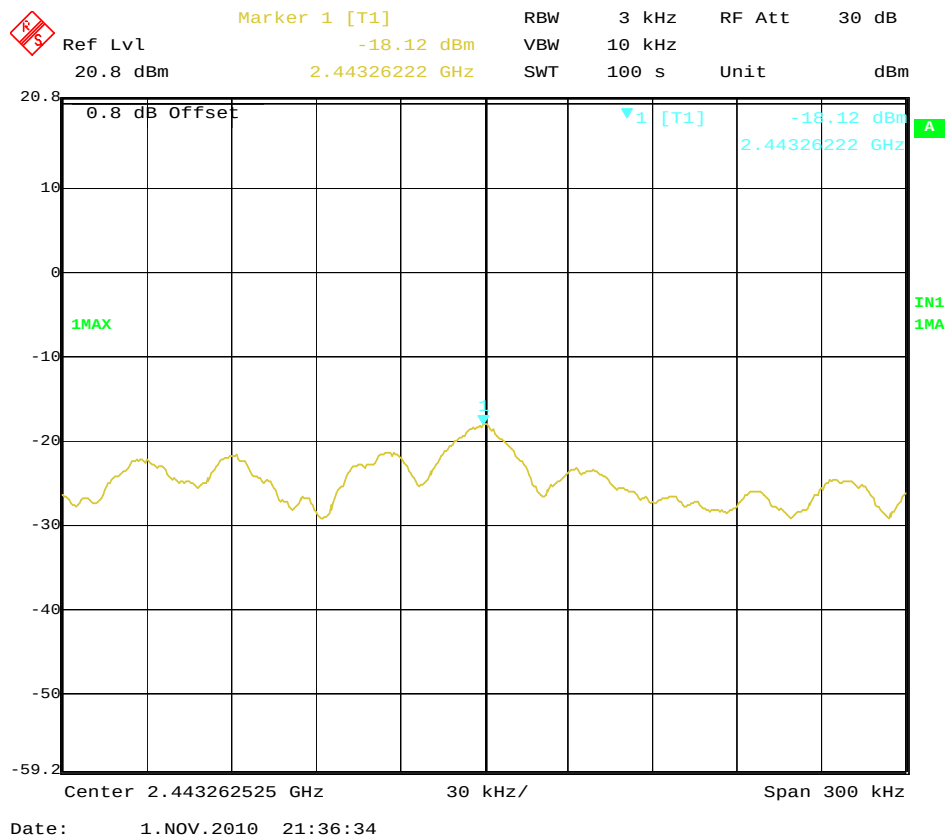
Channel 3 @ Antenna 2



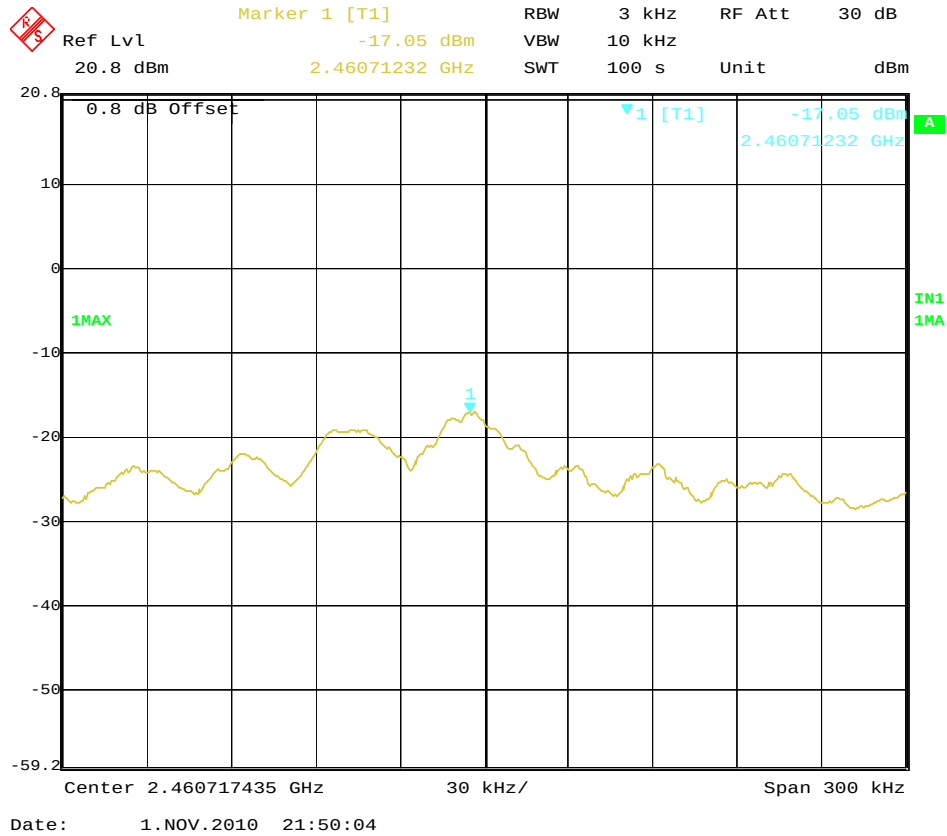
Channel 6 @ Antenna 1



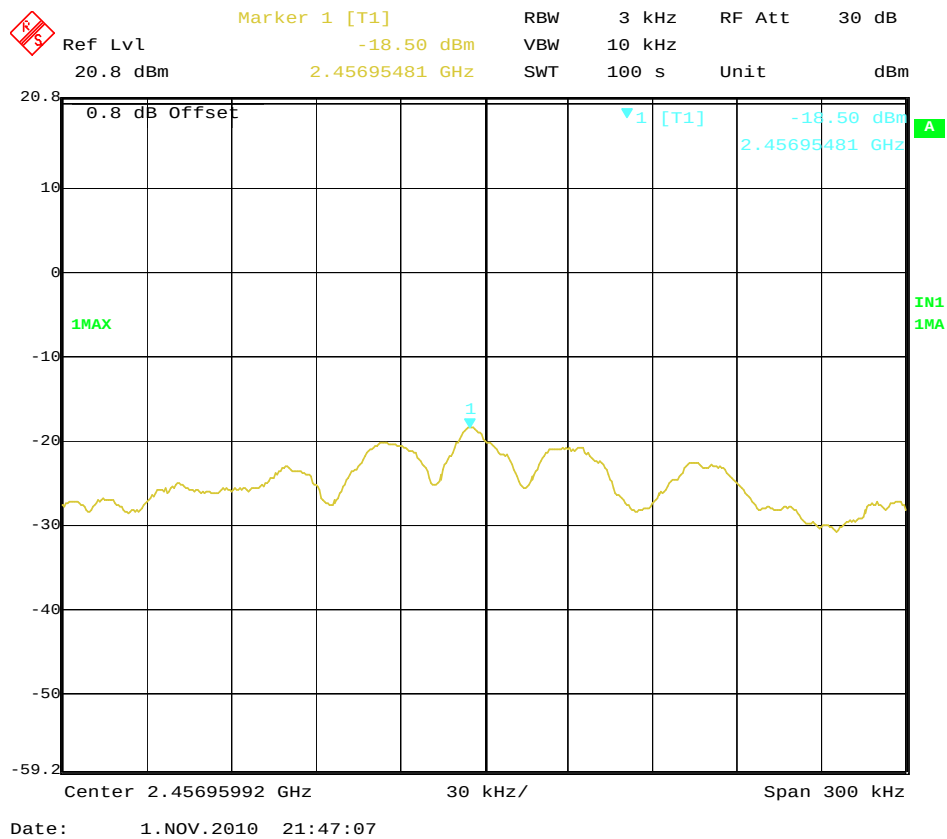
Channel 6 @ Antenna 2



Channel 9 @ Antenna 1

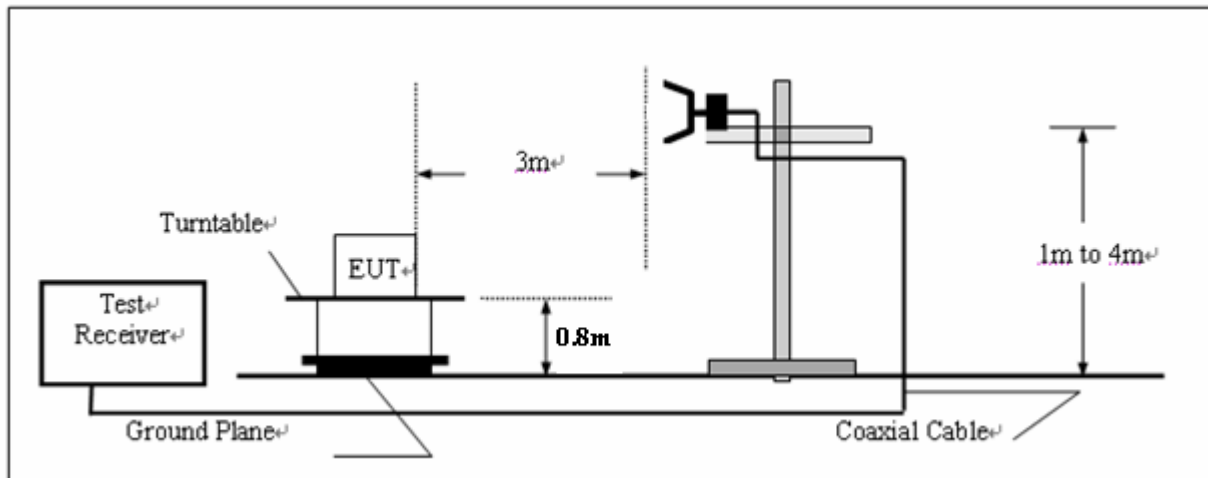


Channel 9 @ Antenna 2



4.5. Band Edge Compliance of RF Emission

TEST CONFIGURATION



TEST PROCEDURE

Connect the spectrum analyzer to the EUT using an appropriate RF cable connected to the EUT output. Configure the spectrum analyzer settings as described below (be sure to enter all losses between the unlicensed wireless device output and the spectrum analyzer).

- Span: Set Span for minimum 50 MHz
- Reference Level: 110 dB μ V (corrected for gains and losses of test antenna factor, preamp gain and cable loss)
- Attenuation: 10 dB
- Sweep Time: Coupled
- Resolution Bandwidth: Up to and including 1 GHz = $\geq$ 100 kHz
- Resolution Bandwidth: Above 1 GHz = 1 MHz
- Video Bandwidth: Below 1 GHz = 300 kHz
- Video Bandwidth: Up to and including 1 GHz = $\geq$ 3 MHz for peak and 10 Hz for average
- Detector: Peak

Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel.

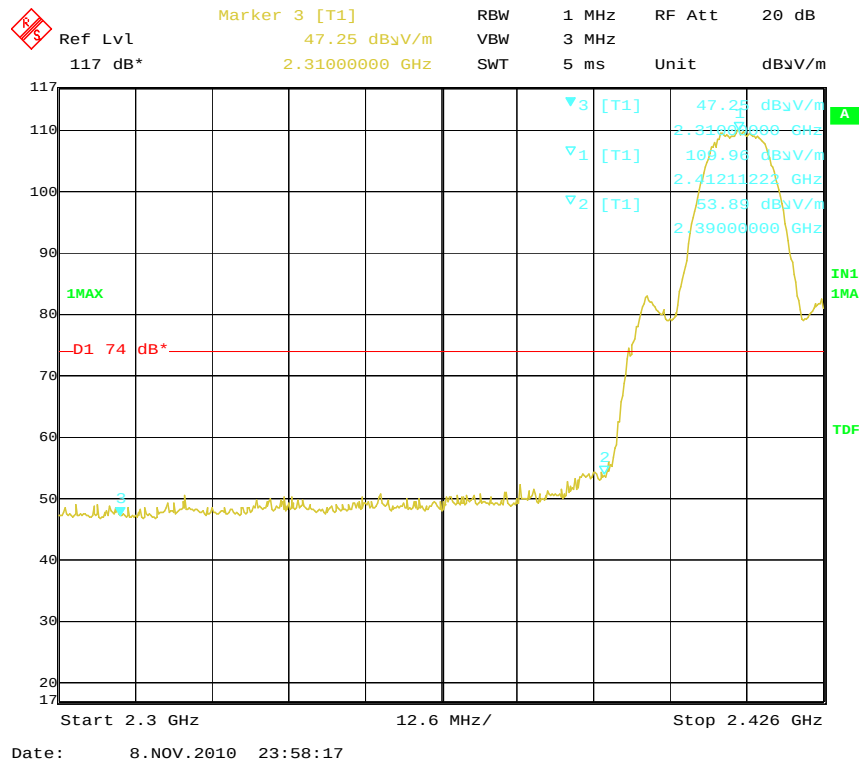
LIMIT

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)

TEST RESULTS

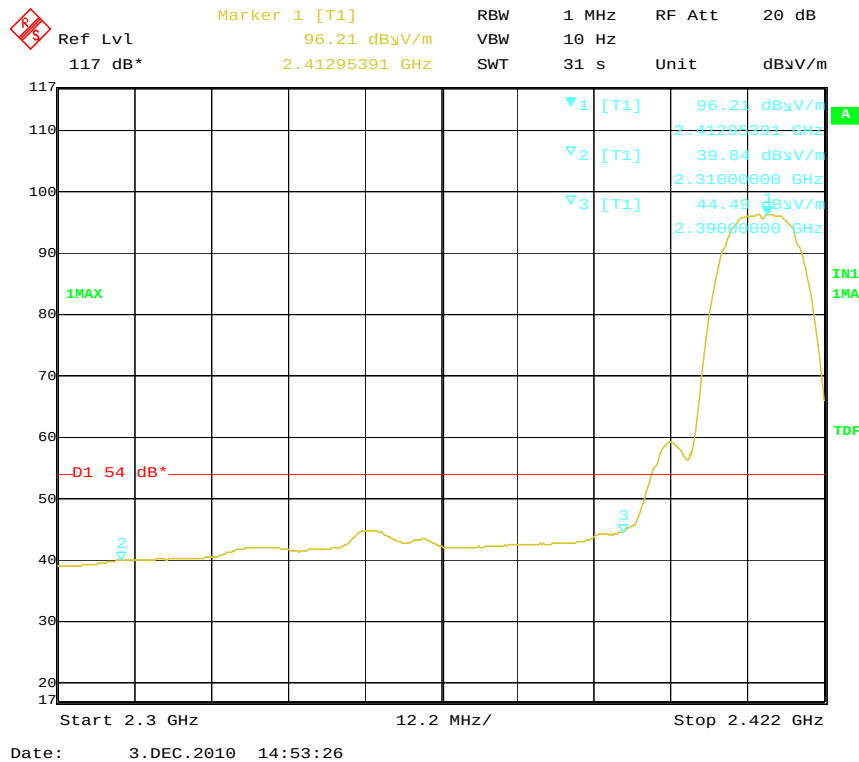
Photos of Band Edge Measurement

Note: For 802.11b Mode



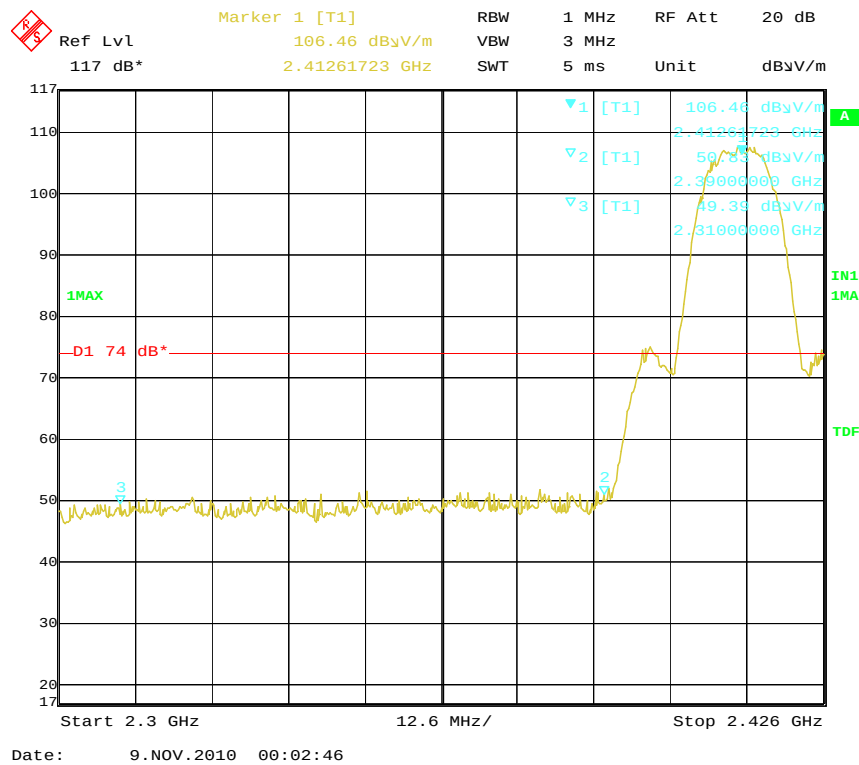
Note:

1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the peak radiated field strength shall blow 74dB μ V/m.
2. Antenna Polarization vertical.



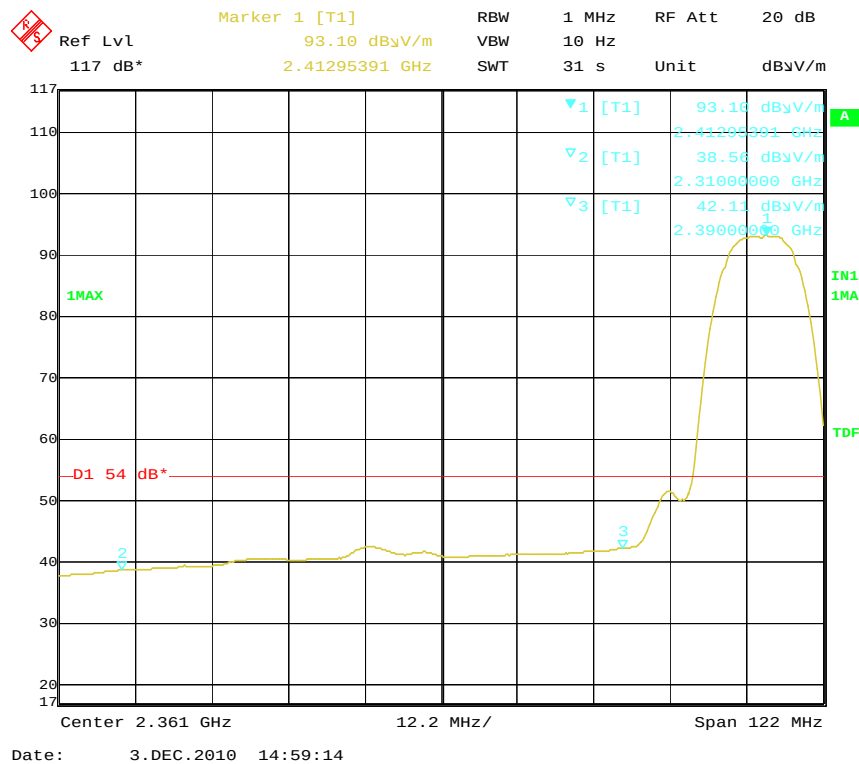
Note:

1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the average radiated field strength shall blow 54dB μ V/m.
2. Antenna Polarization vertical.



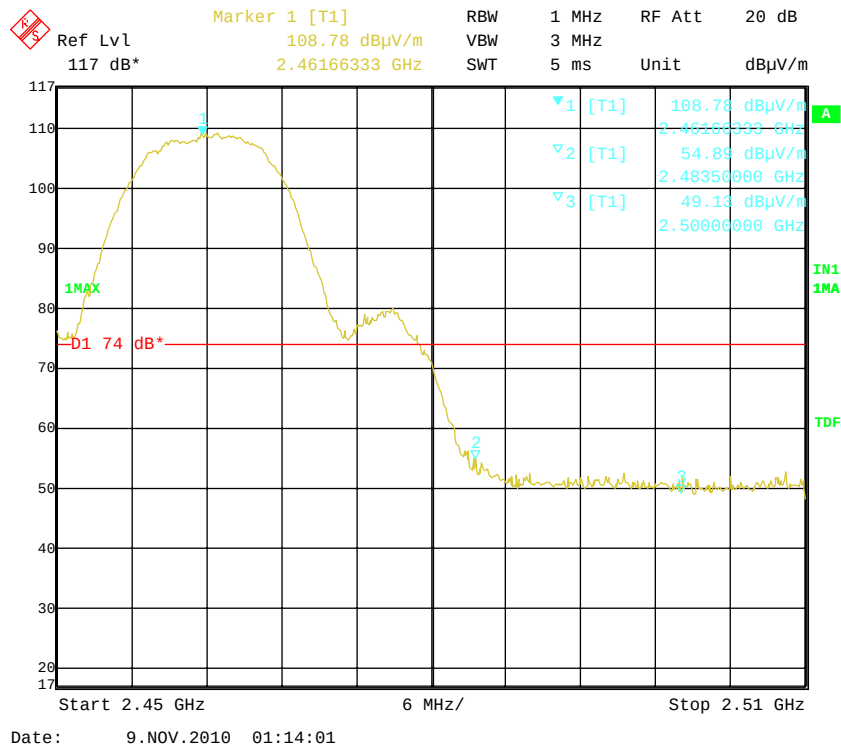
Note:

1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the peak radiated field strength shall blow 74dB μ V/m.
2. Antenna Polarization horizontal.



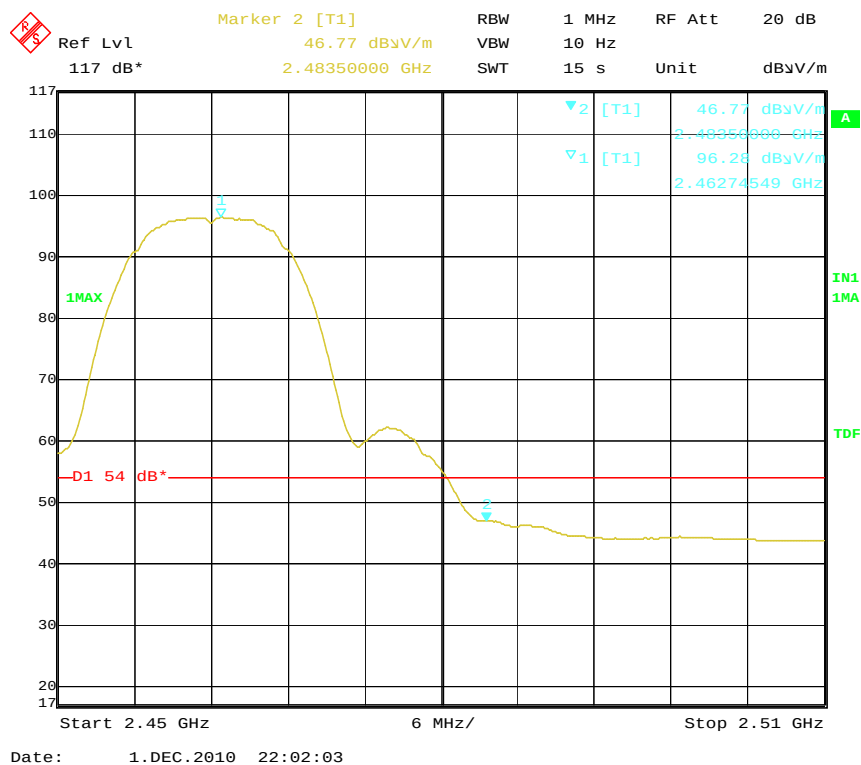
Note:

1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the average radiated field strength shall blow 54dB μ V/m.
2. Antenna Polarization horizontal.



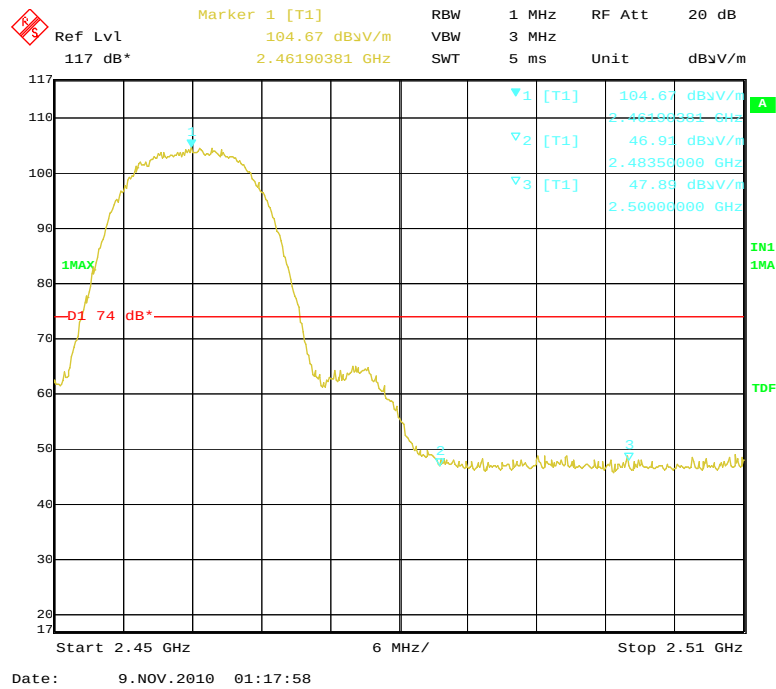
Note:

1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the peak radiated field strength shall blow 74dB μ V/m.
2. Antenna Polarization vertical.



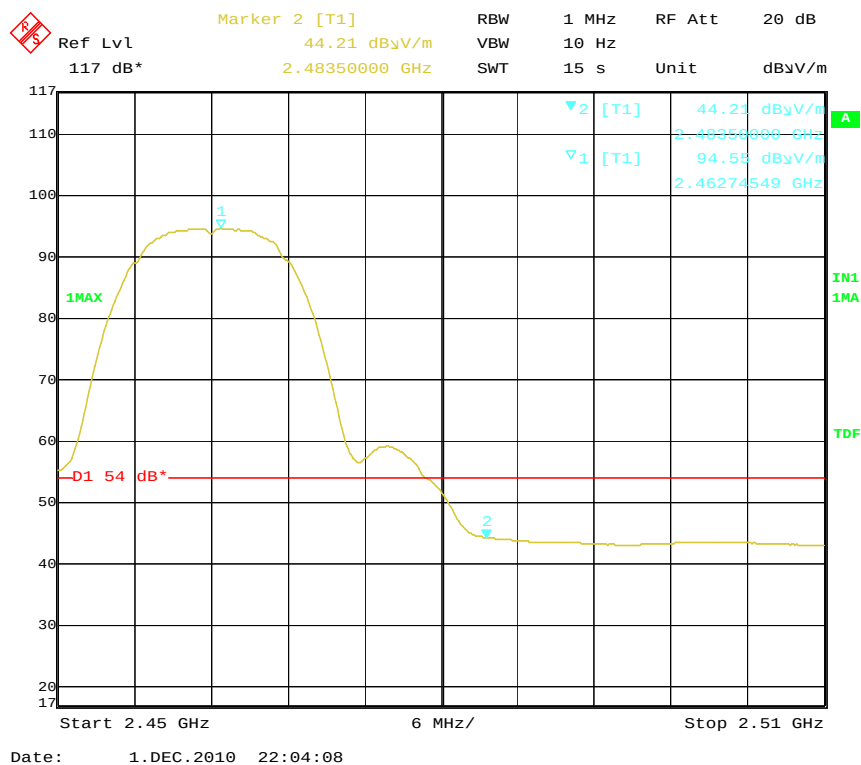
Note:

1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the average radiated field strength shall blow 54dB μ V/m.
2. Antenna Polarization vertical.



Note:

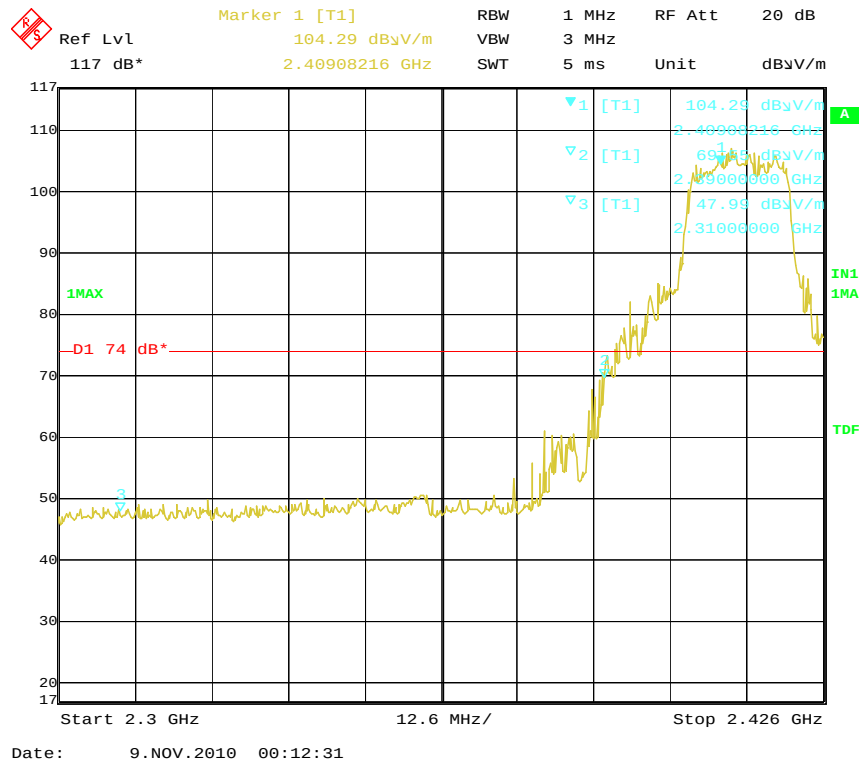
1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the peak radiated field strength shall blow 74dB μ V/m.
2. Antenna Polarization horizontal.



Note:

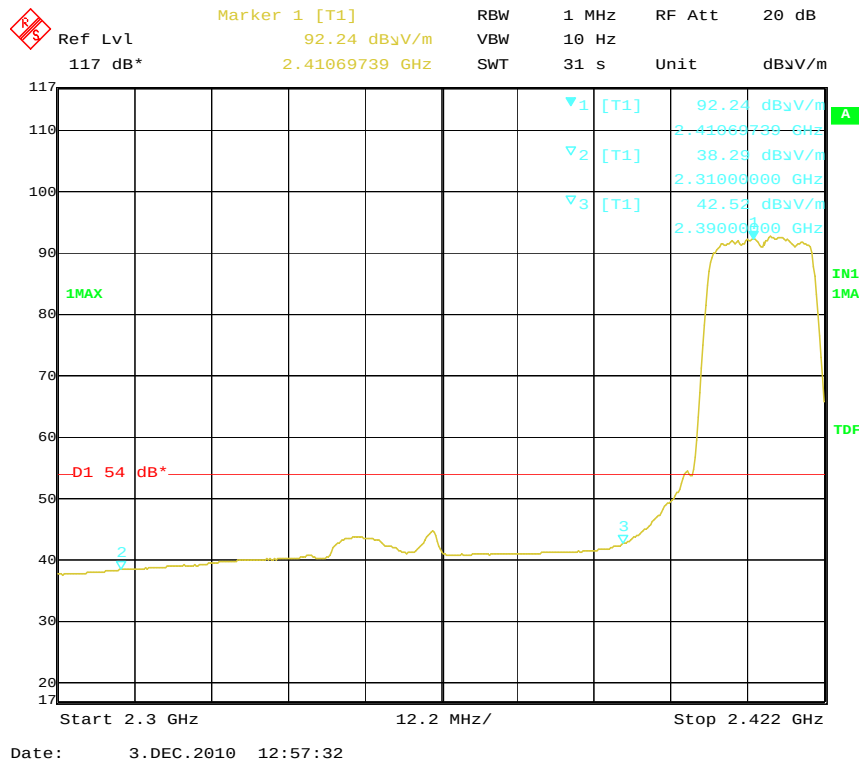
1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the average radiated field strength shall blow 54dB μ V/m.
2. Antenna Polarization horizontal.

Note : For 802.11g Mode



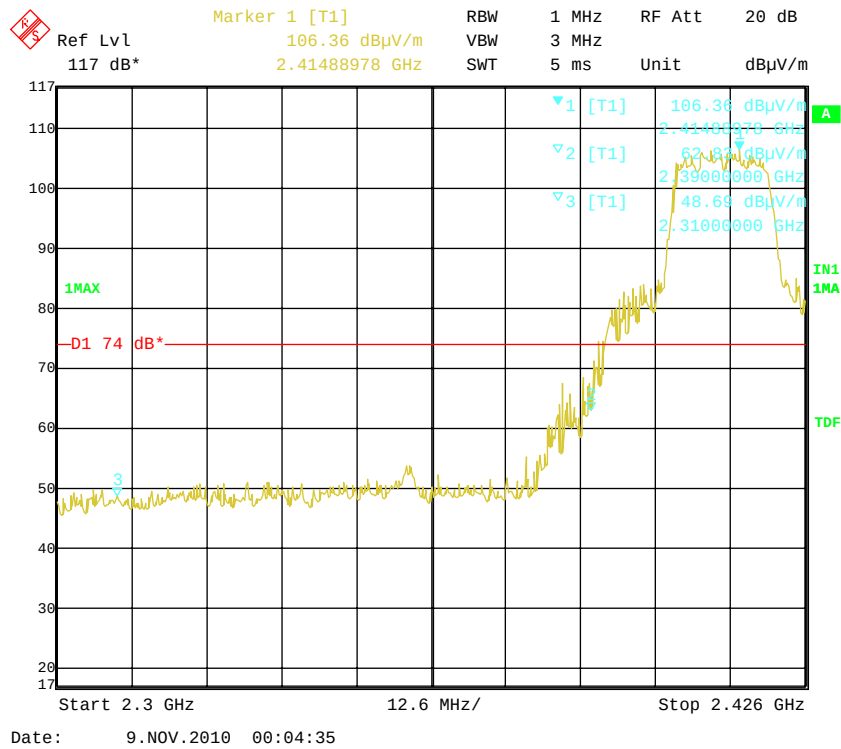
Note:

1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the peak radiated field strength shall blow 74dB μ V/m.
2. Antenna Polarization vertical.



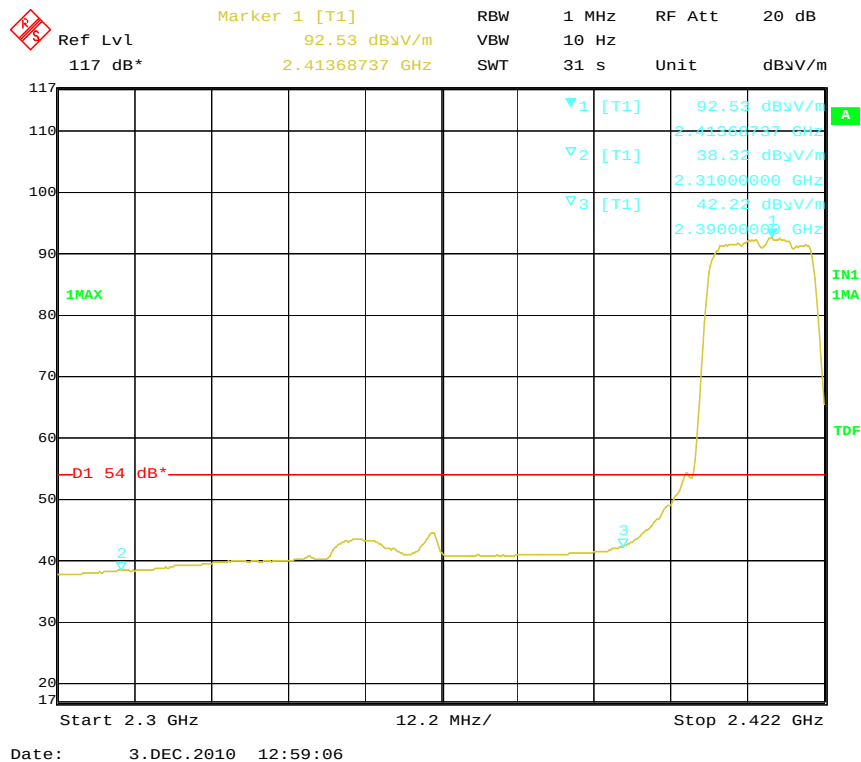
Note:

1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the average radiated field strength shall blow 54dB μ V/m.
2. Antenna Polarization vertical.



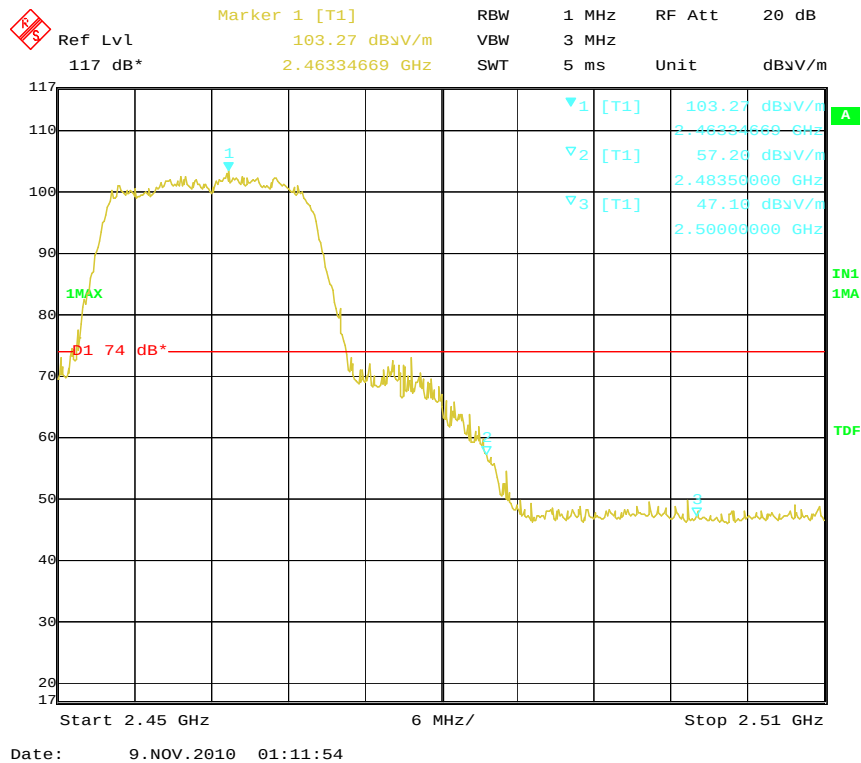
Note:

1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the peak radiated field strength shall blow 74dBμV/m.
2. Antenna Polarization horizontal.



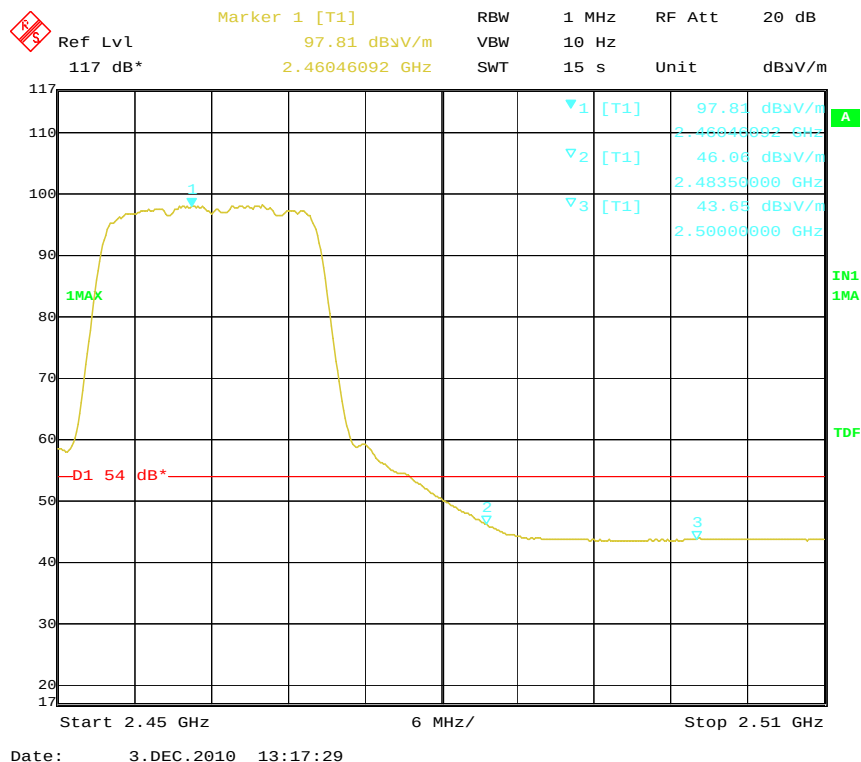
Note:

1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the average radiated field strength shall blow 54dBμV/m.
2. Antenna Polarization horizontal.



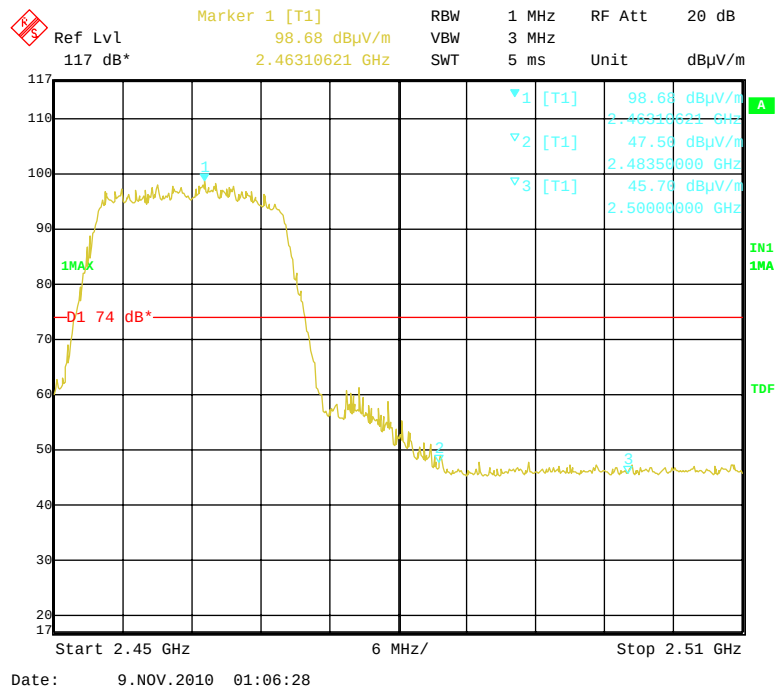
Note:

1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the peak radiated field strength shall blow 74dB μ V/m.
2. Antenna Polarization vertical.



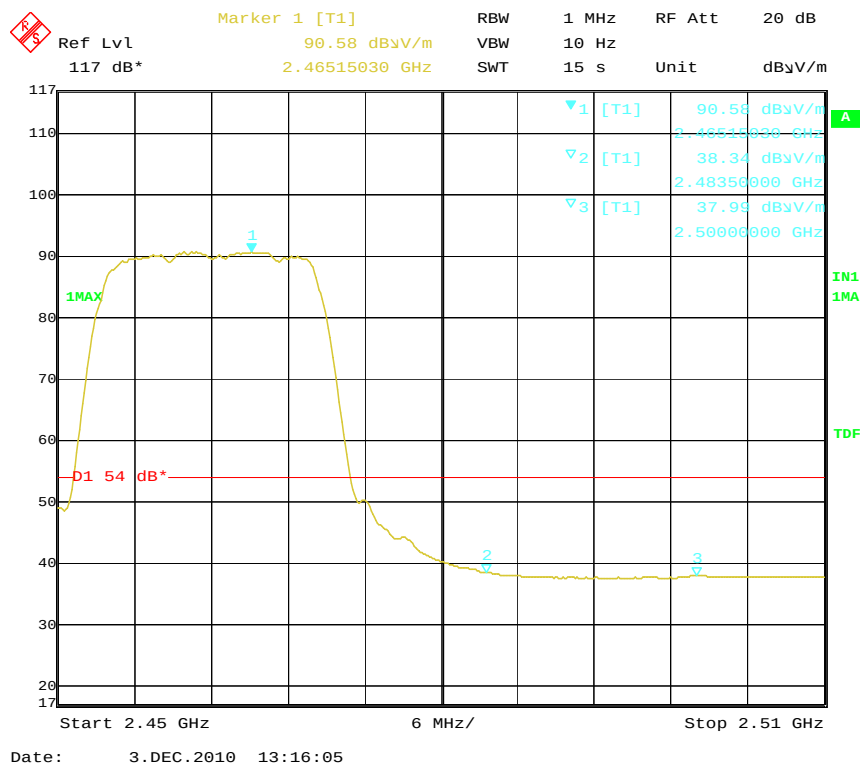
Note:

1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the average radiated field strength shall blow 54dB μ V/m.
2. Antenna Polarization vertical.



Note:

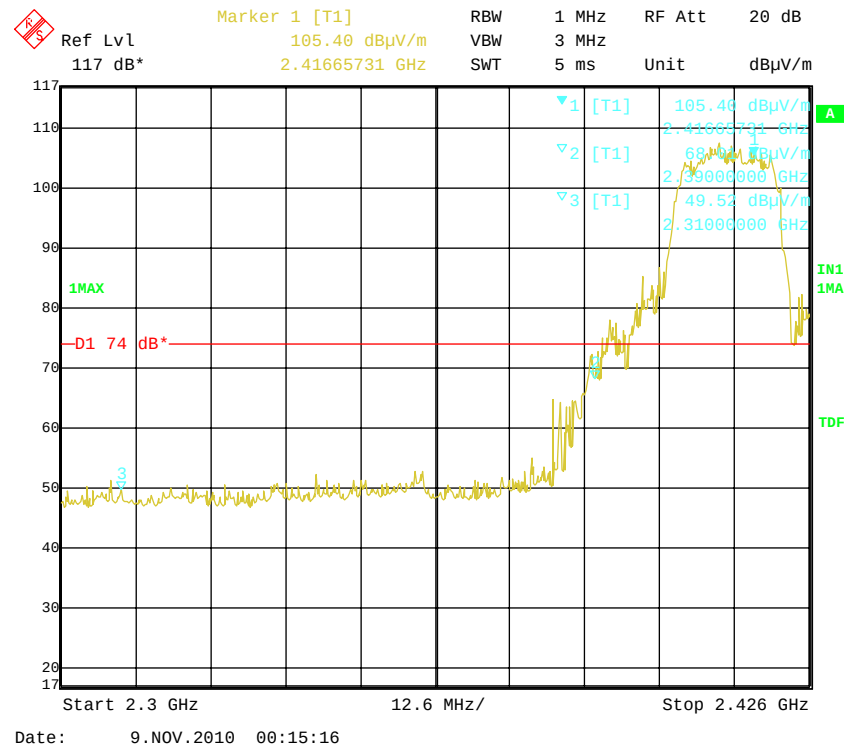
1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the peak radiated field strength shall blow 74dB μ V/m.
2. Antenna Polarization horizontal.



Note:

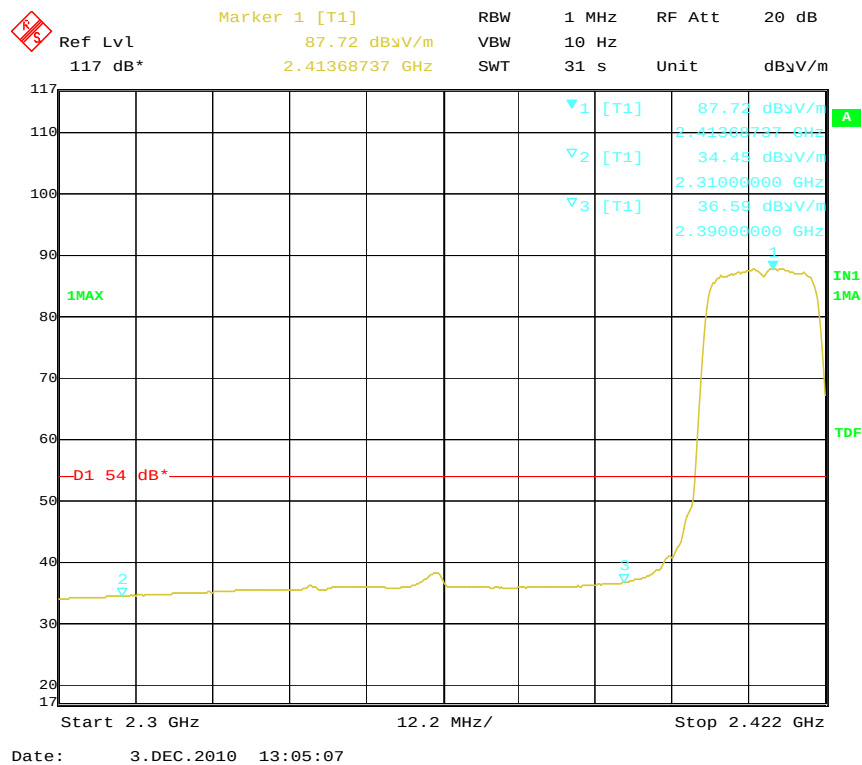
1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the average radiated field strength shall blow 54dB μ V/m.
2. Antenna Polarization horizontal.

Note : For 802.11n (20MHz) Mode



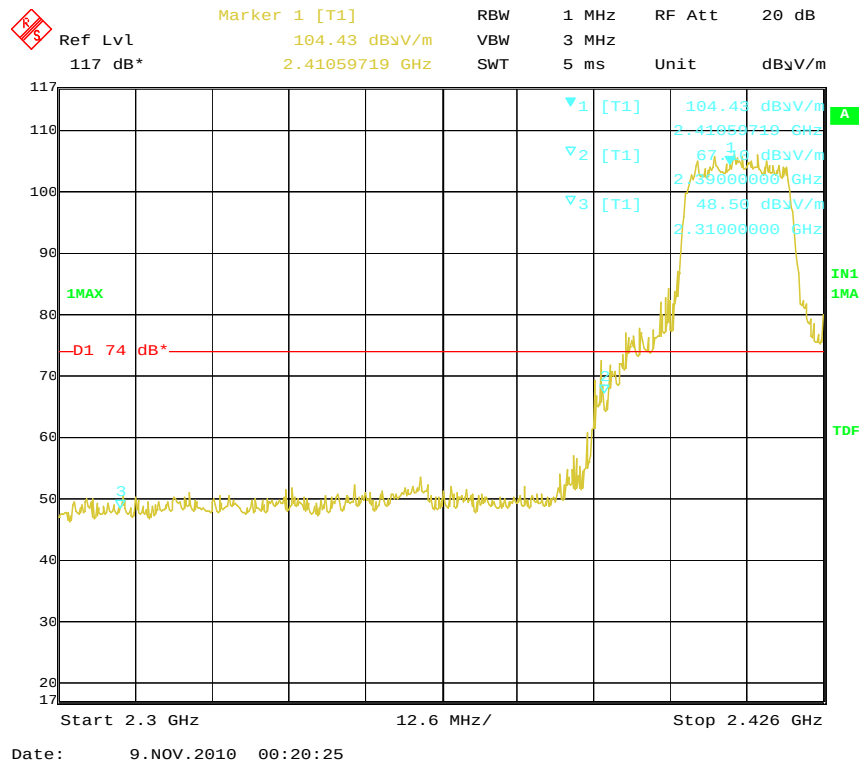
Note:

1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the peak radiated field strength shall blow 74dBμV/m.
2. Antenna Polarization vertical.



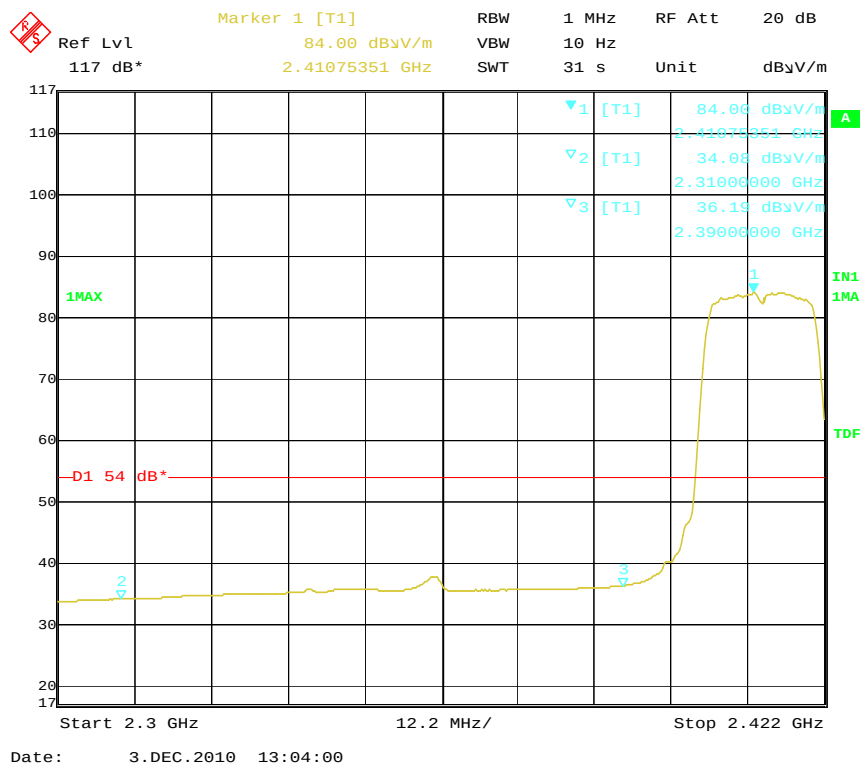
Note:

1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the average radiated field strength shall blow 54dBμV/m.
2. Antenna Polarization vertical.



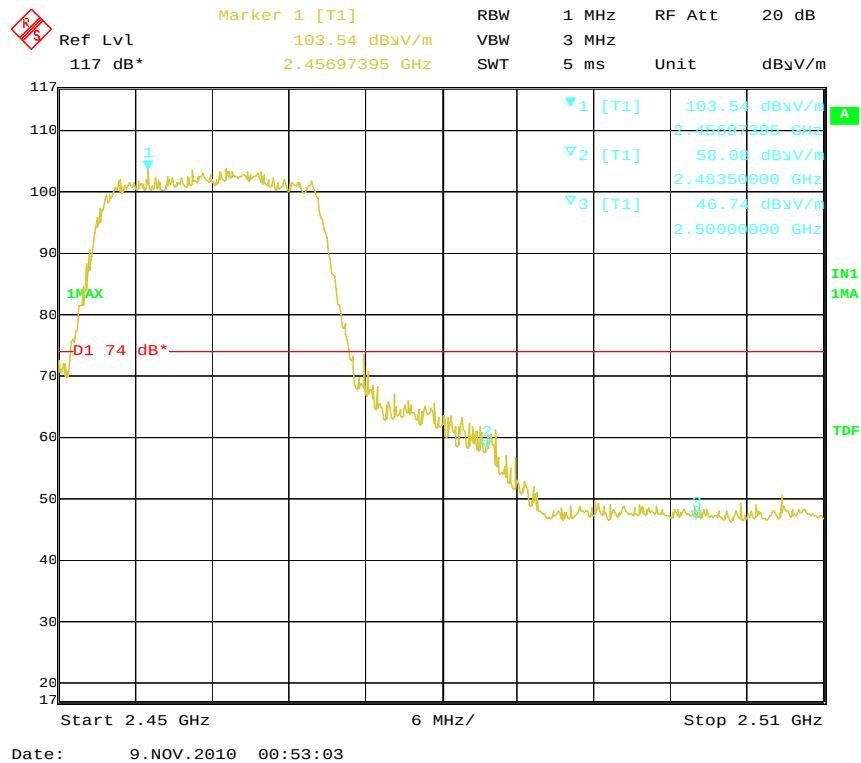
Note:

1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the peak radiated field strength shall blow 74dB μ V/m.
2. Antenna Polarization horizontal.



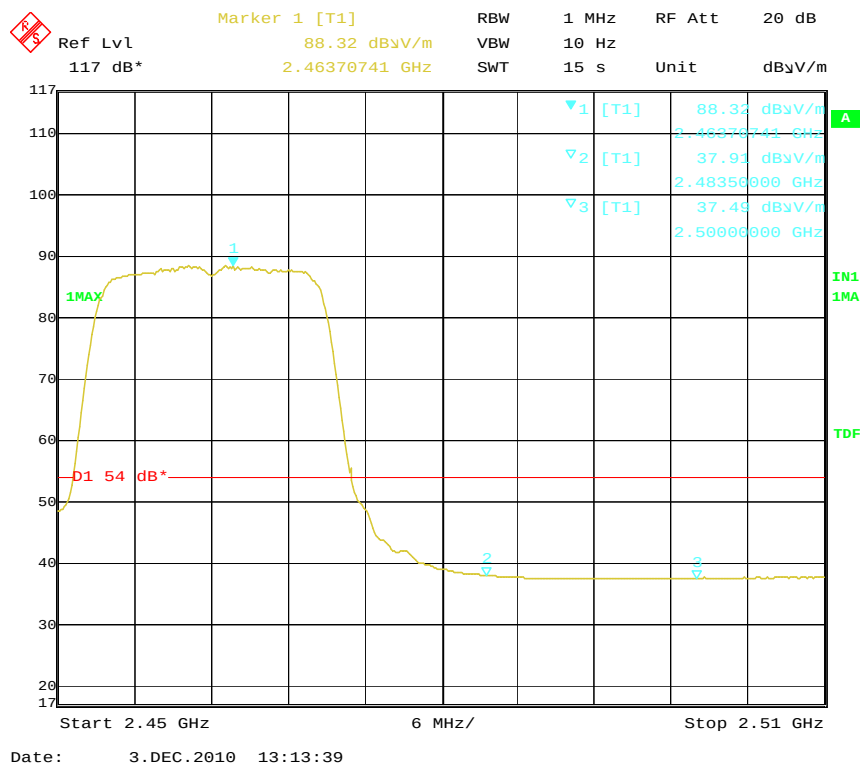
Note:

1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the average radiated field strength shall blow 54dB μ V/m.
2. Antenna Polarization horizontal.



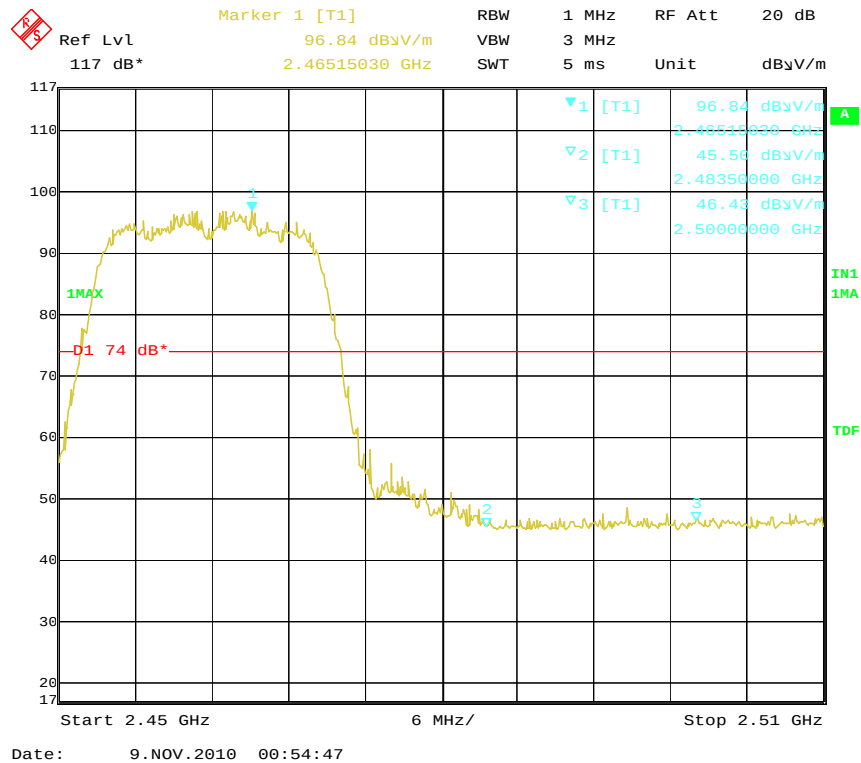
Note:

1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the peak radiated field strength shall blow 74dB μ V/m.
2. Antenna Polarization vertical.



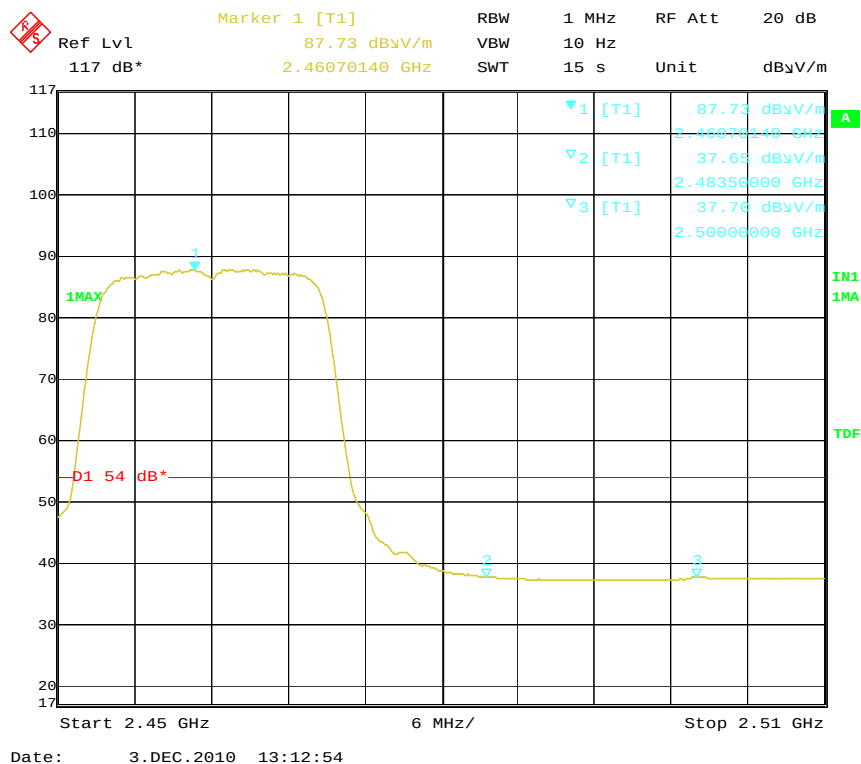
Note:

1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the average radiated field strength shall blow 54dB μ V/m.
2. Antenna Polarization vertical.



Note:

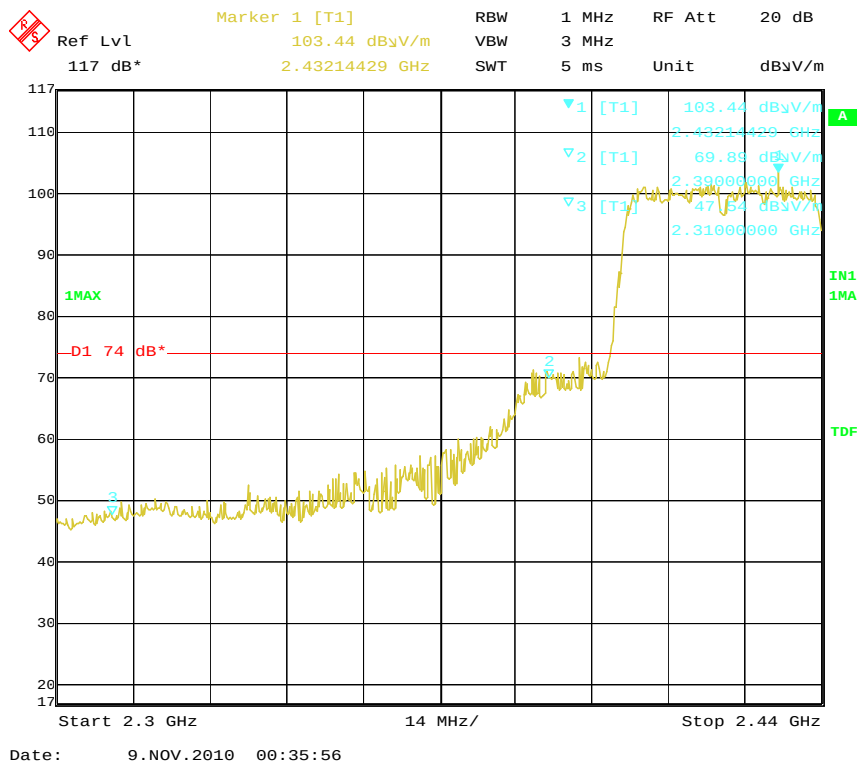
1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the peak radiated field strength shall blow 74dB μ V/m.
2. Antenna Polarization horizontal.



Note:

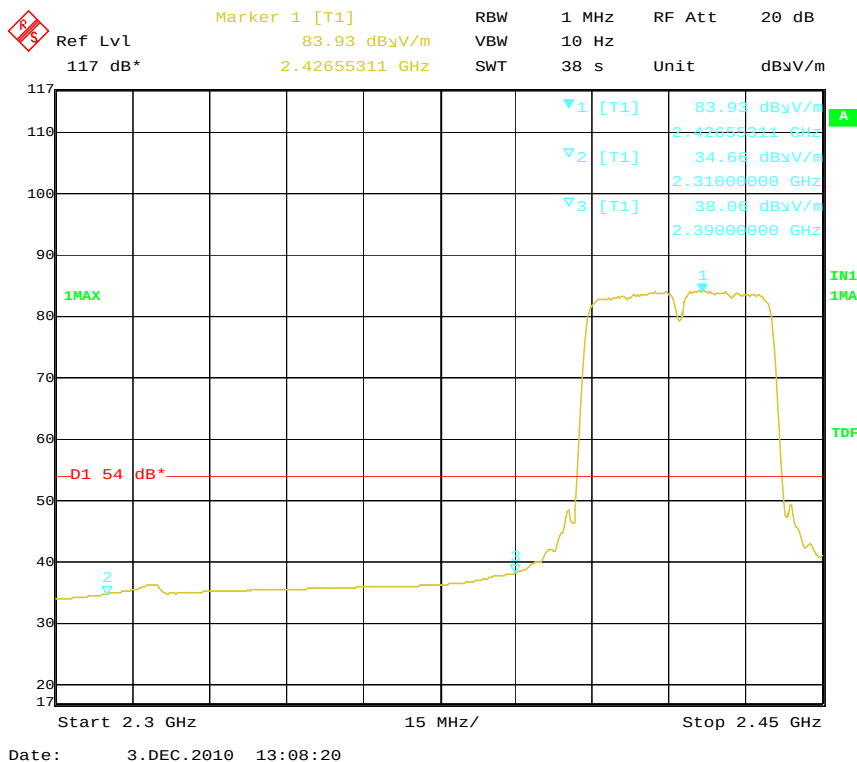
1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the average radiated field strength shall blow 54dB μ V/m.
2. Antenna Polarization horizontal.

Note : For 802.11n (40MHz) Mode



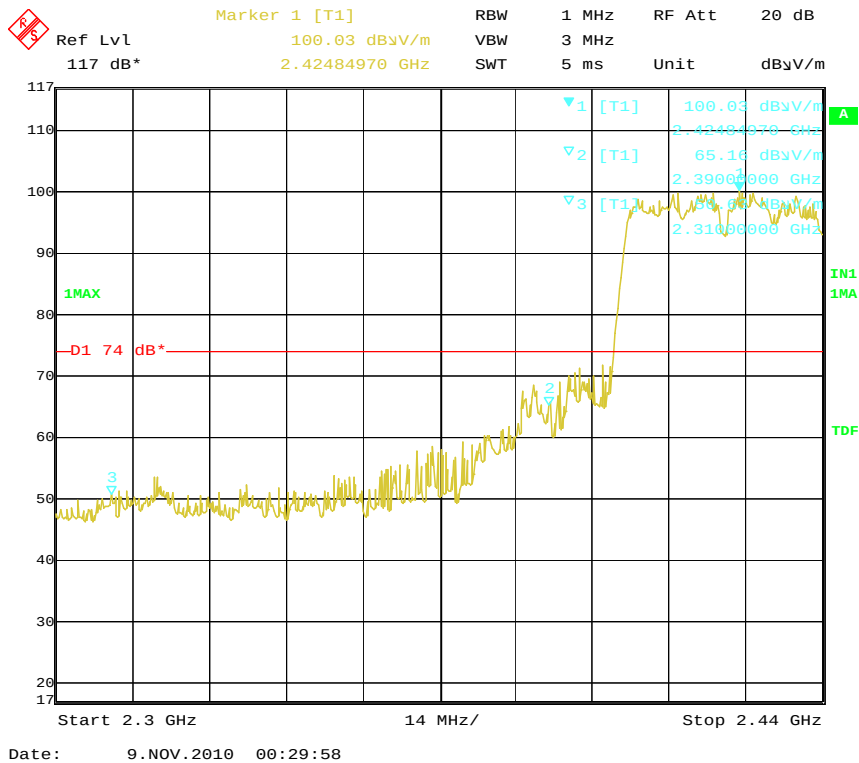
Note:

1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the peak radiated field strength shall blow 74dB μ V/m.
2. Antenna Polarization vertical.



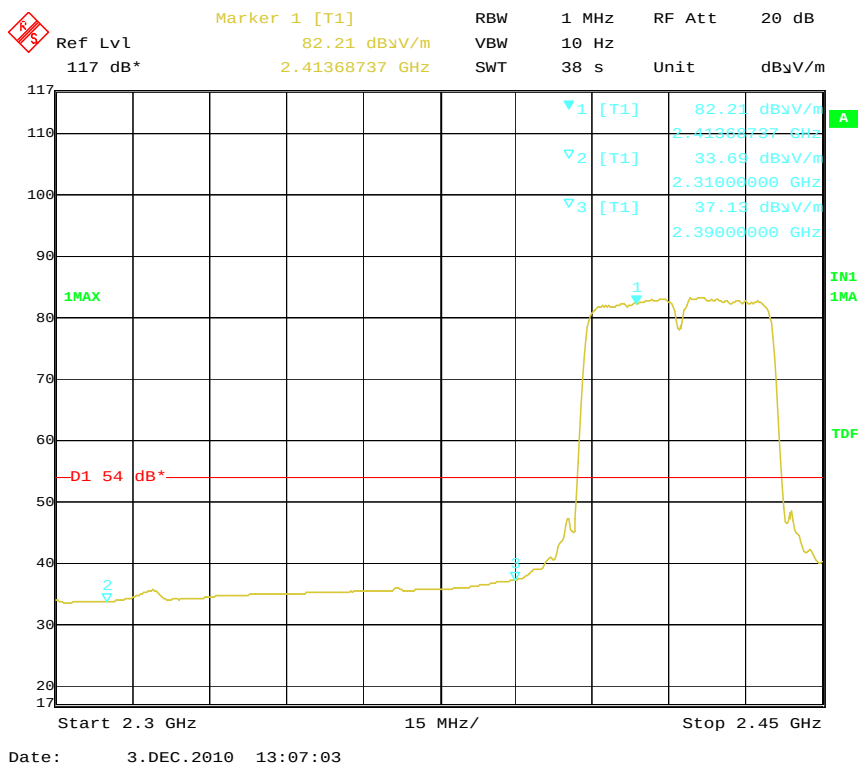
Note:

1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the average radiated field strength shall blow 54dB μ V/m.
2. Antenna Polarization vertical.



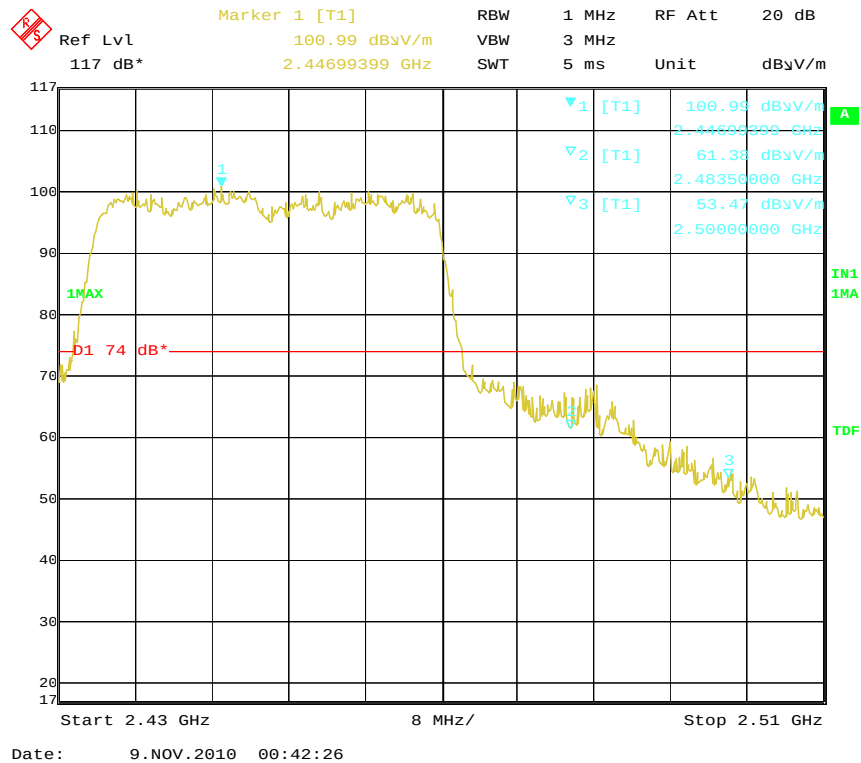
Note:

1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the peak radiated field strength shall blow 74dB μ V/m.
2. Antenna Polarization horizontal.



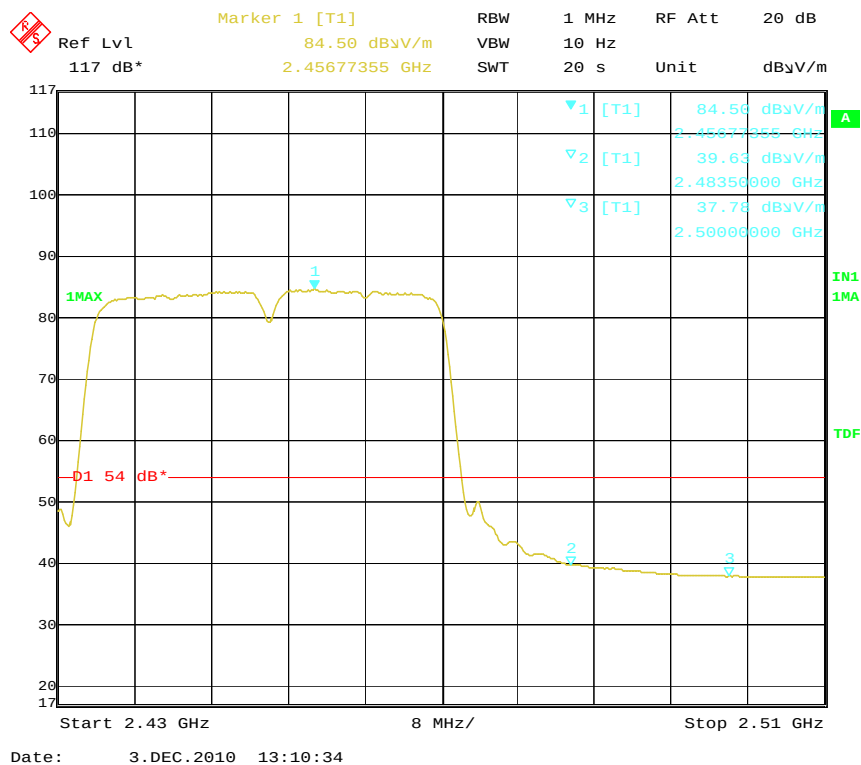
Note:

1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the average radiated field strength shall blow 54dB μ V/m.
2. Antenna Polarization horizontal.



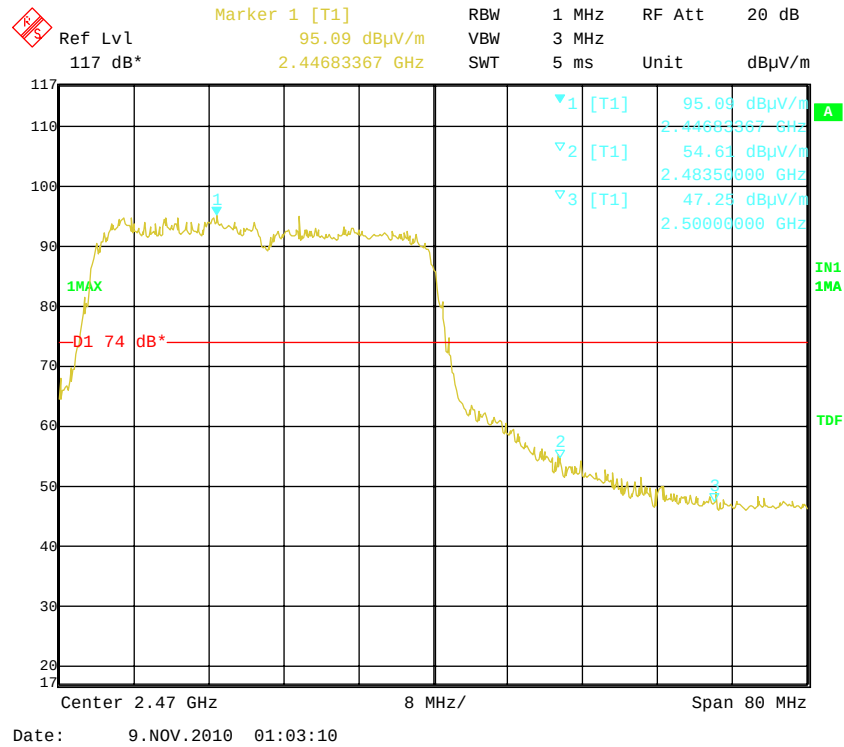
Note:

1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the peak radiated field strength shall blow 74dB μ V/m.
2. Antenna Polarization vertical.



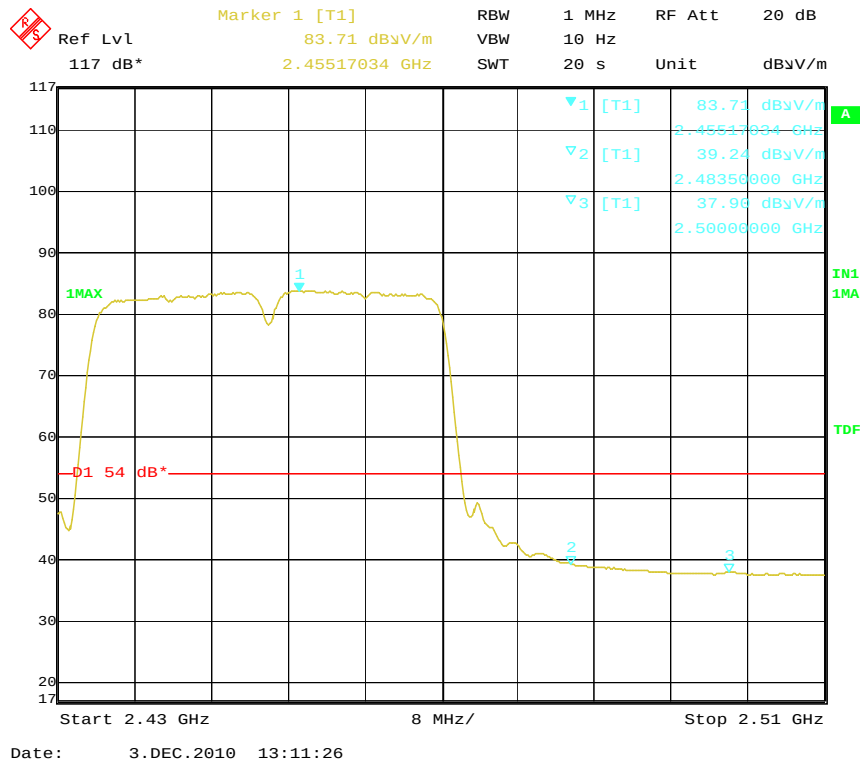
Note:

1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the average radiated field strength shall blow 54dB μ V/m.
2. Antenna Polarization vertical.



Note:

1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the peak radiated field strength shall blow 74dBμV/m.
2. Antenna Polarization horizontal.

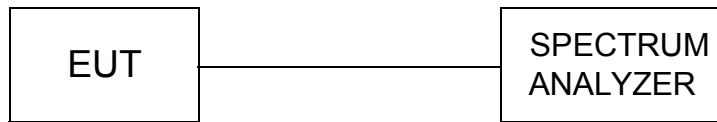


Note:

1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the average radiated field strength shall blow 54dBμV/m.
2. Antenna Polarization horizontal.

4.6. Spurious RF Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2009 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBM= 300KHz to measure the peak field strength , and measure frequency range from 30MHz to 26.5GHz.

LIMIT

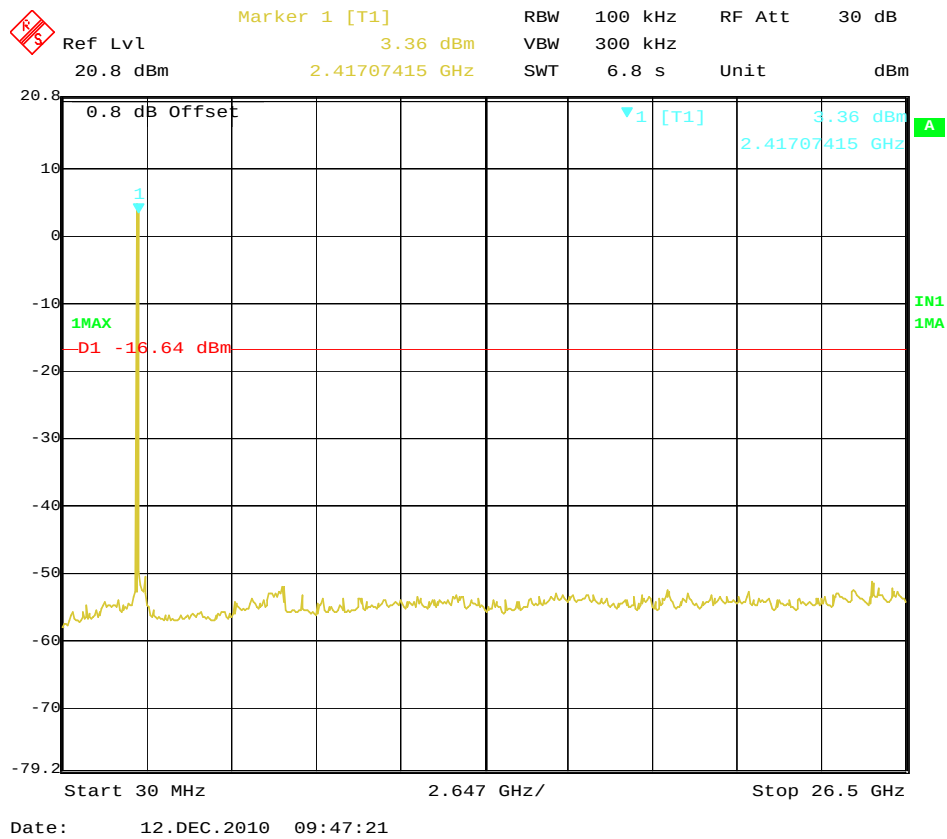
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the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

TEST RESULTS

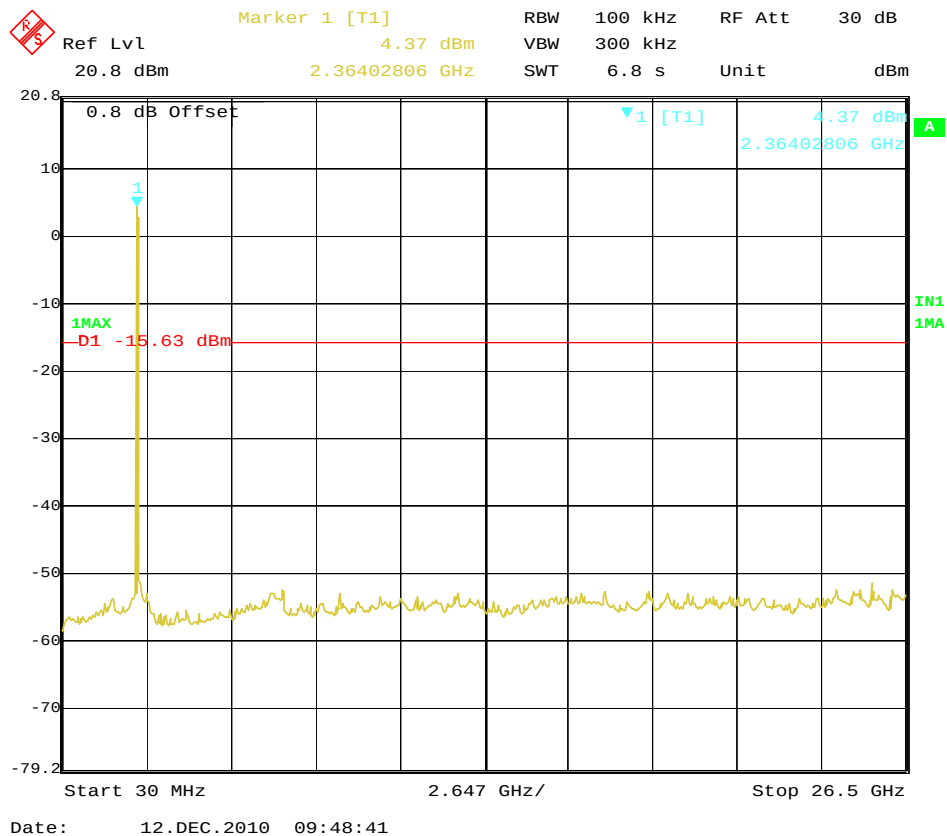
Photos of Spurious RF Conducted Emission Measurement

Note: For 802.11b Mode

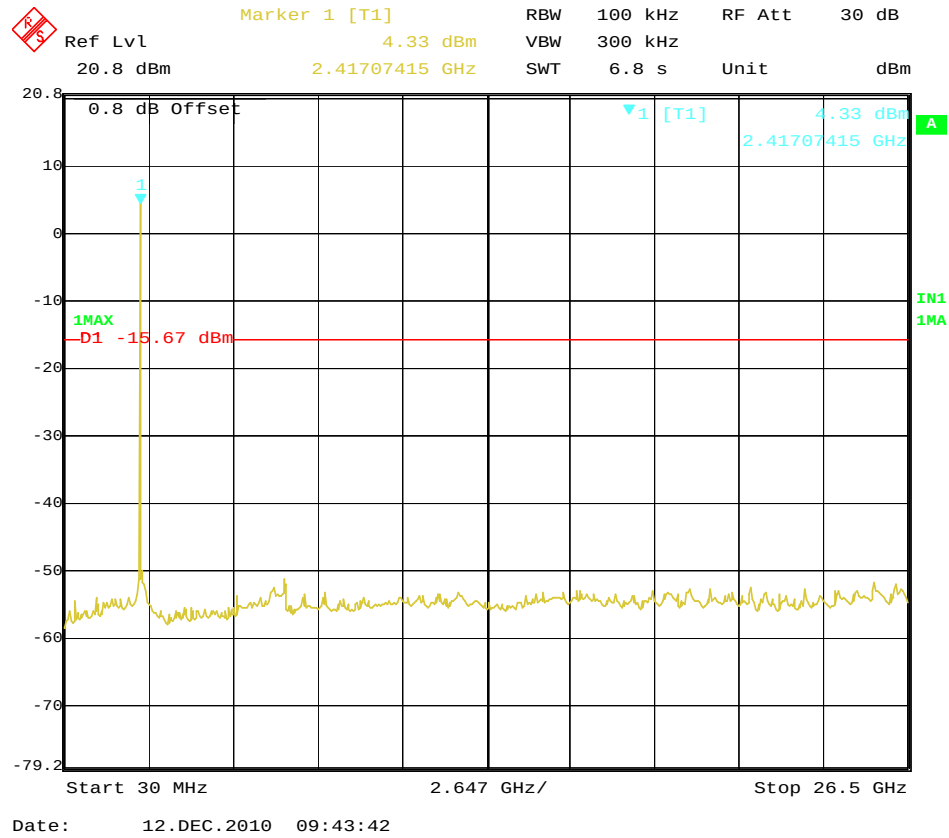
Channel 1@ Antenna1



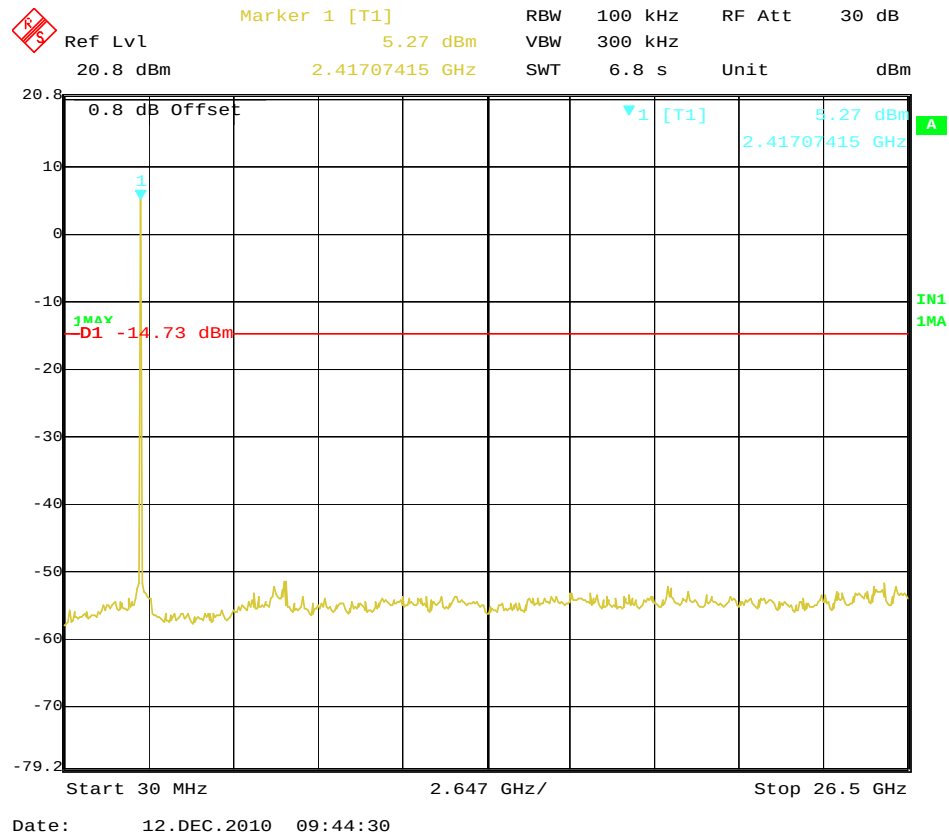
Channel 1@ Antenna2



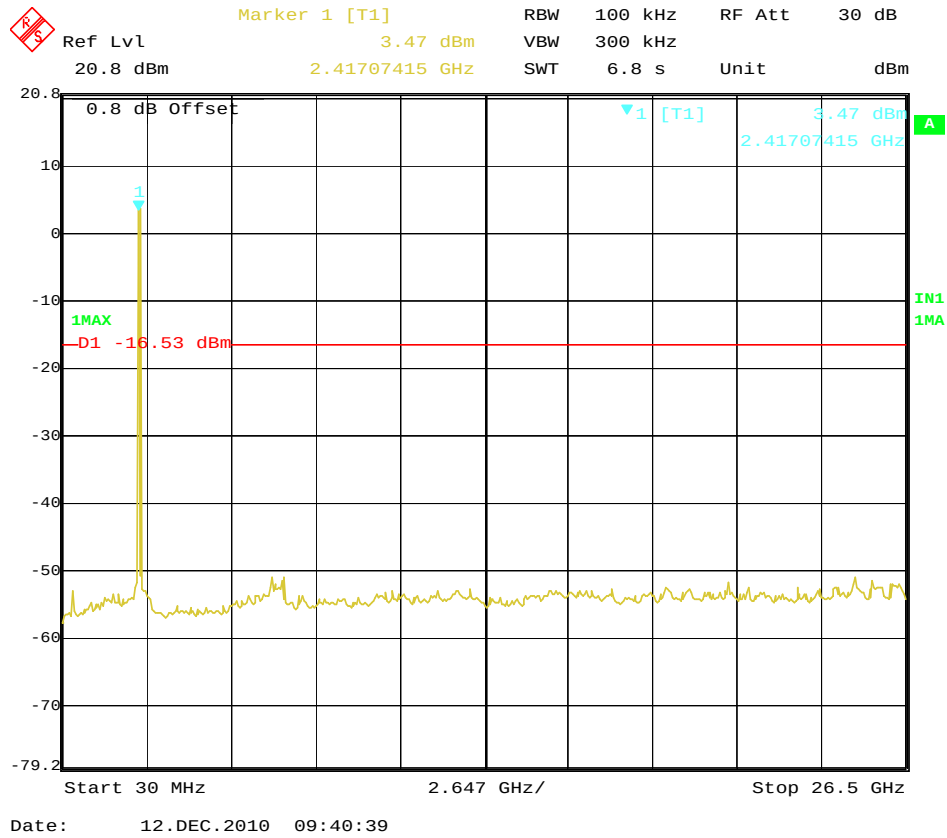
Channel 6@ Antenna1



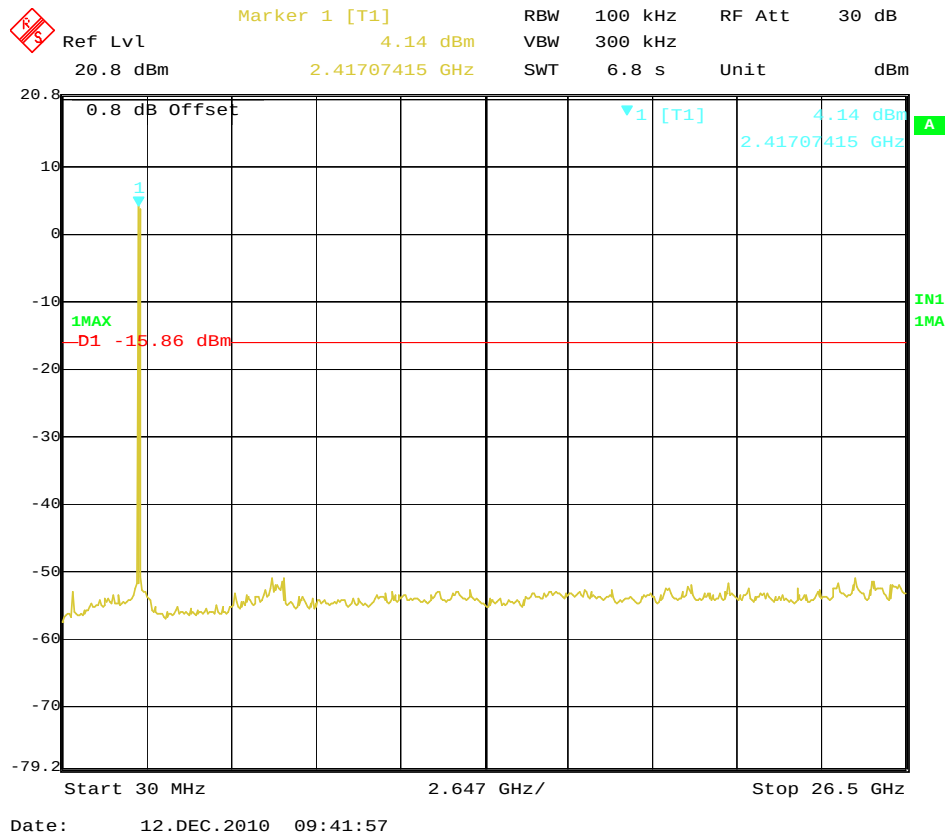
Channel 6@ Antenna2



Channel 11@ Antenna1

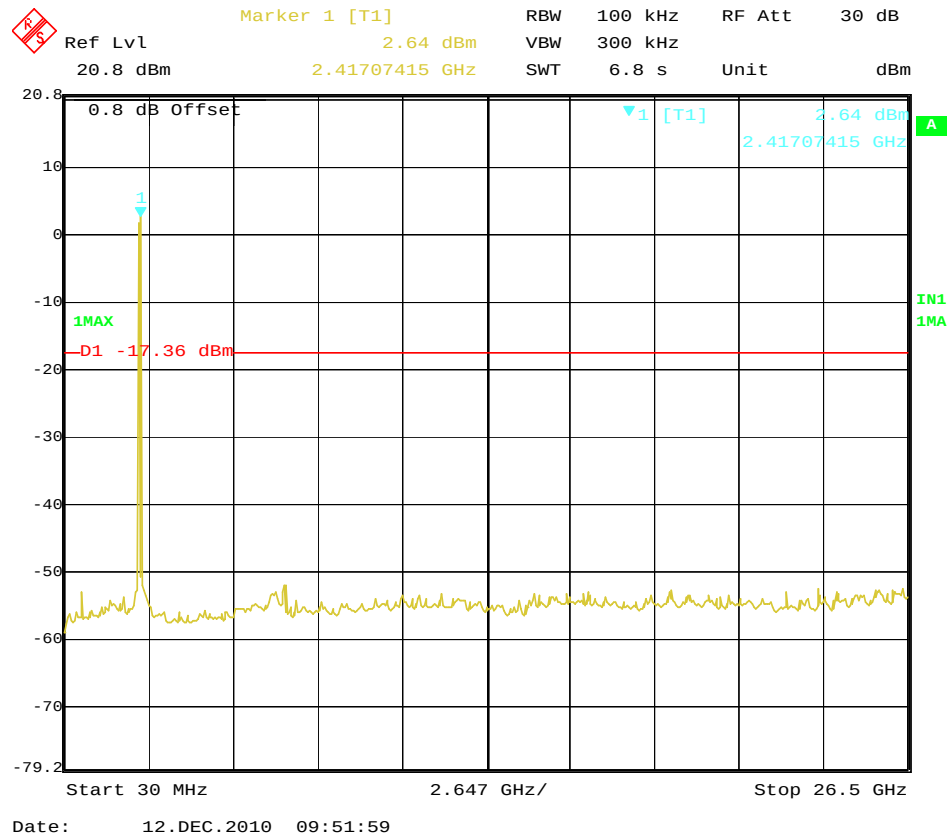


Channel 11@ Antenna2

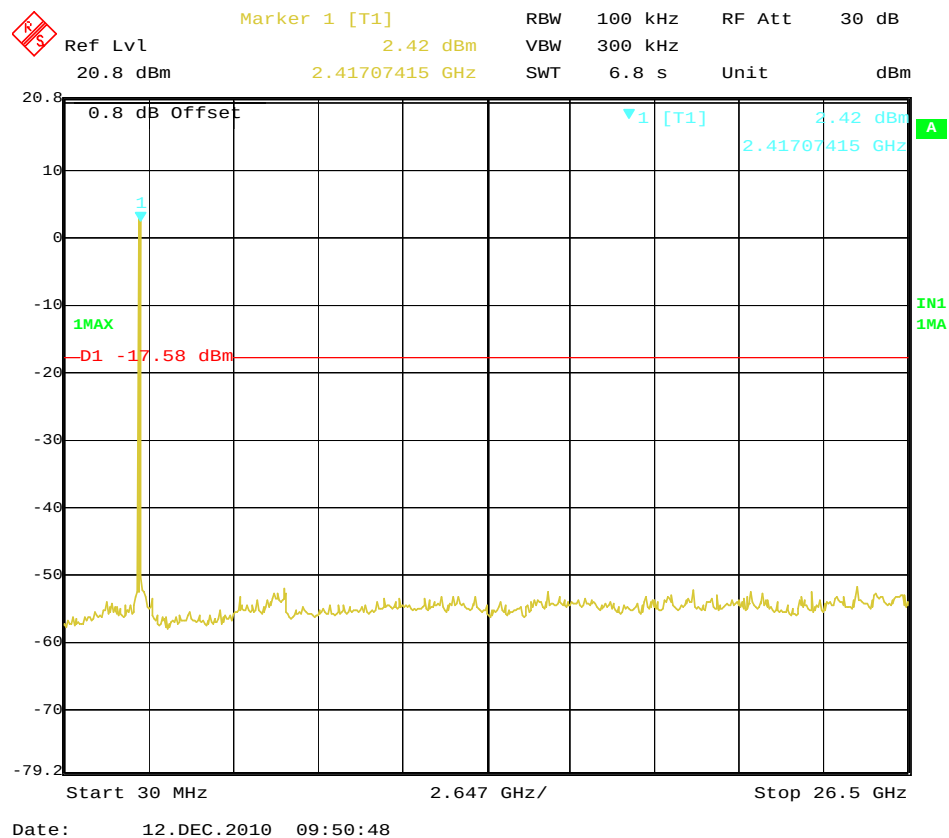


Note: For 802.11g Mode

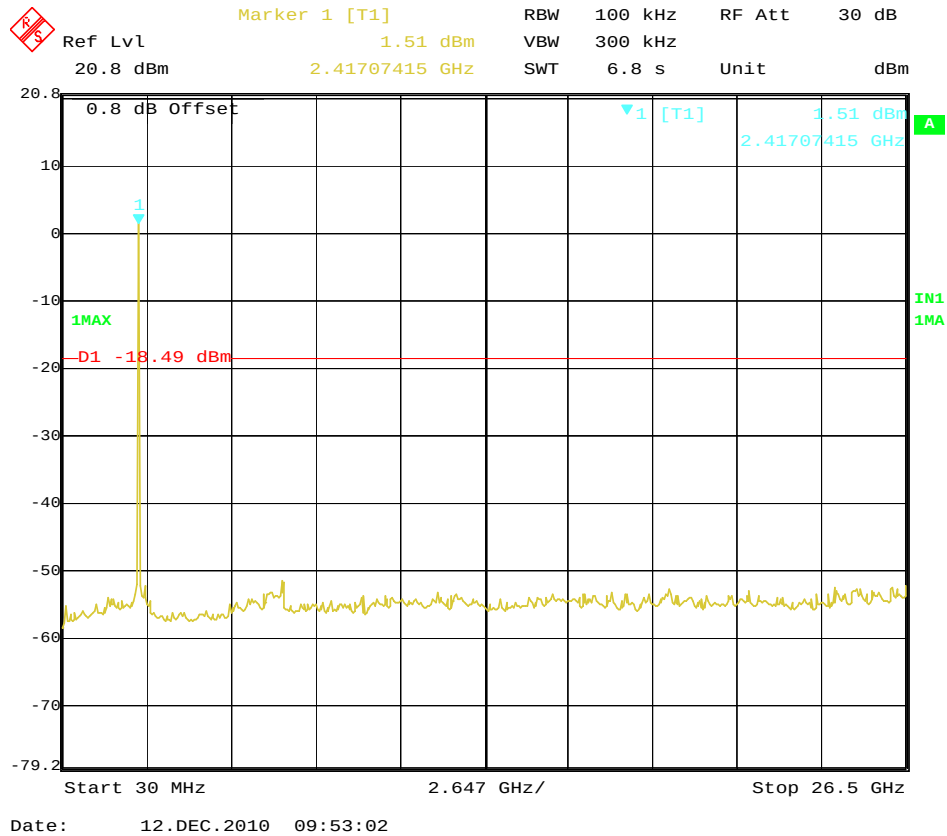
Channel 1@ Antenna1



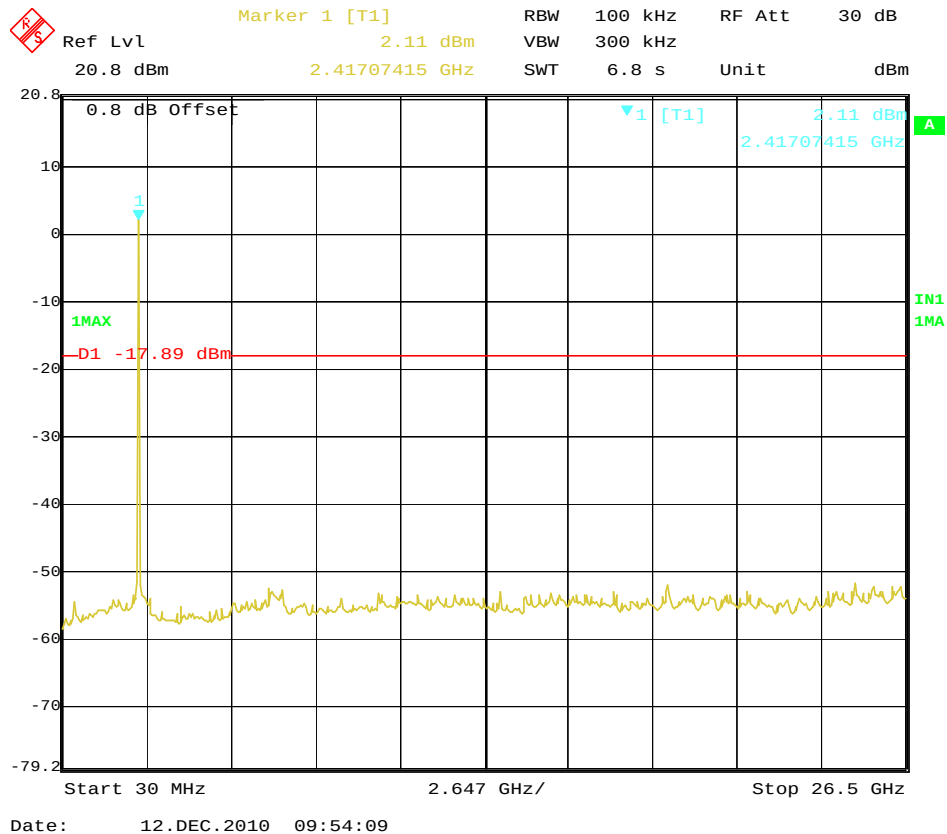
Channel 1@ Antenna2



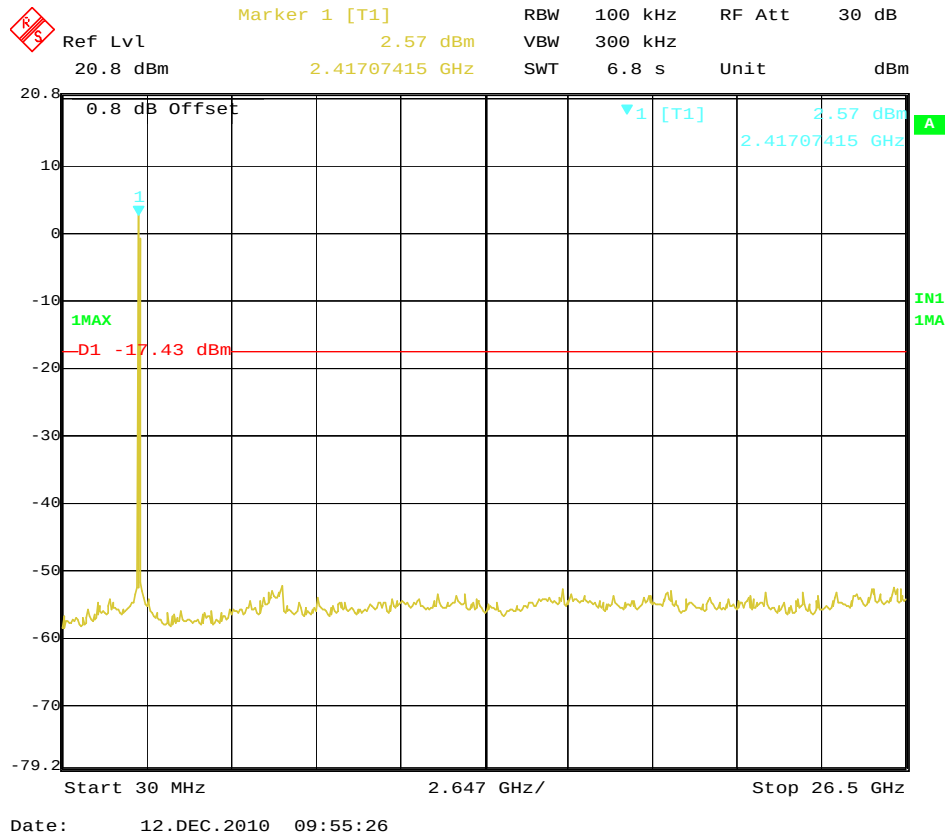
Channel 6@ Antenna1



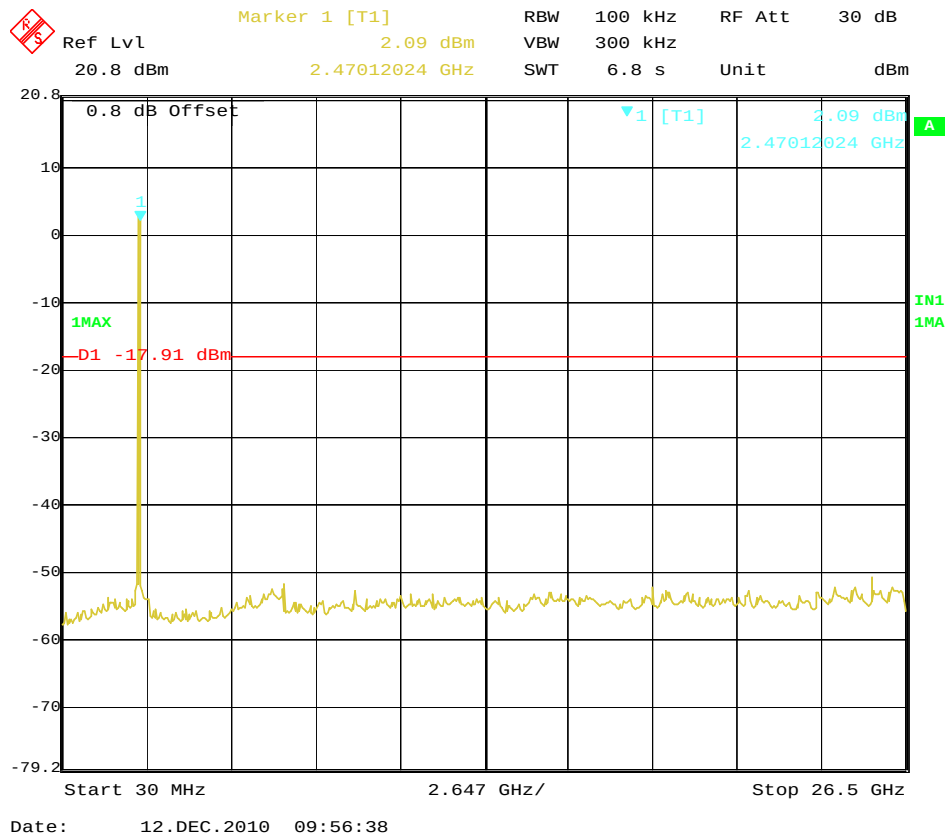
Channel 6@ Antenna2



Channel 11@ Antenna1

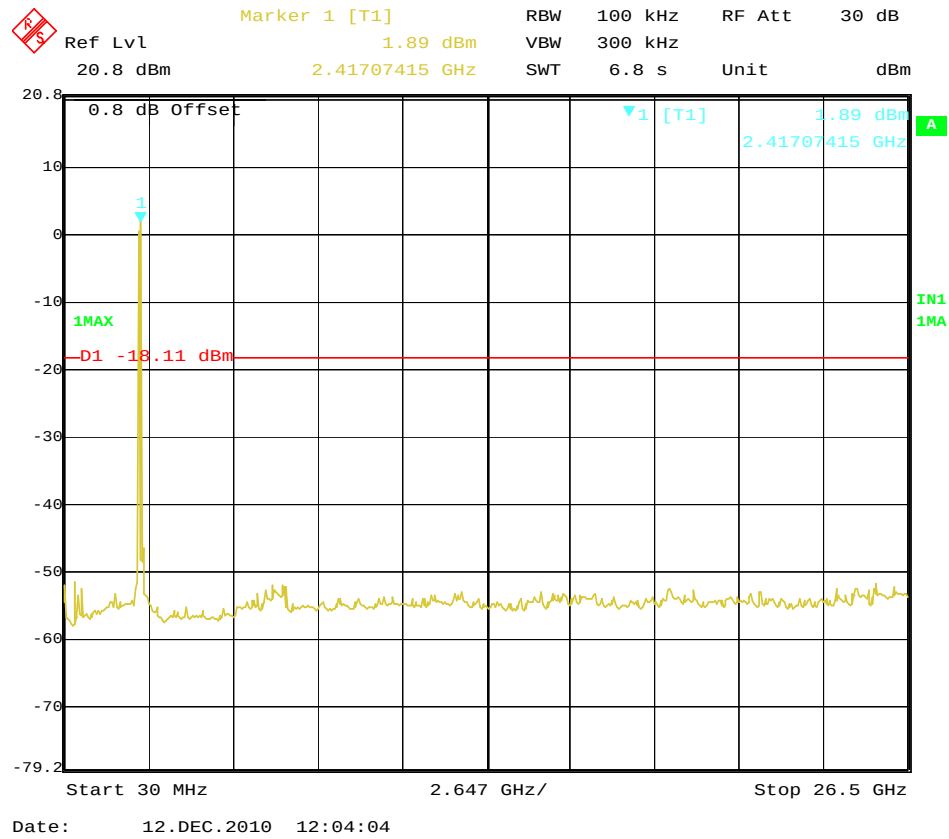


Channel 11@ Antenna2

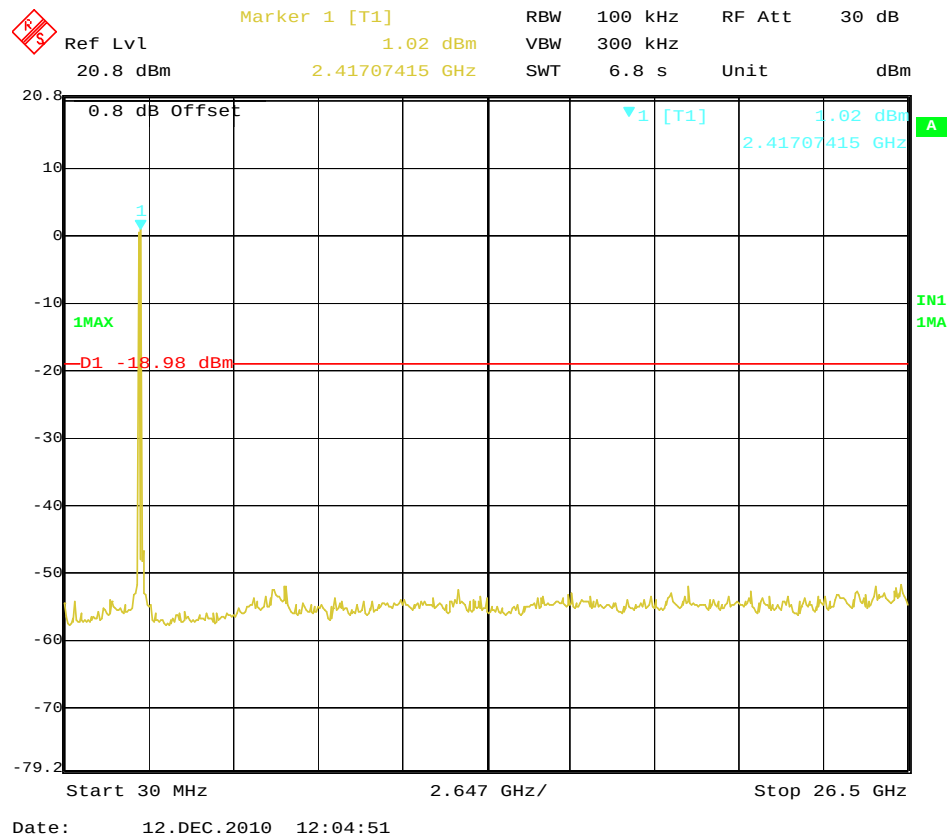


Note: For 802.11n (20MHz) Mode

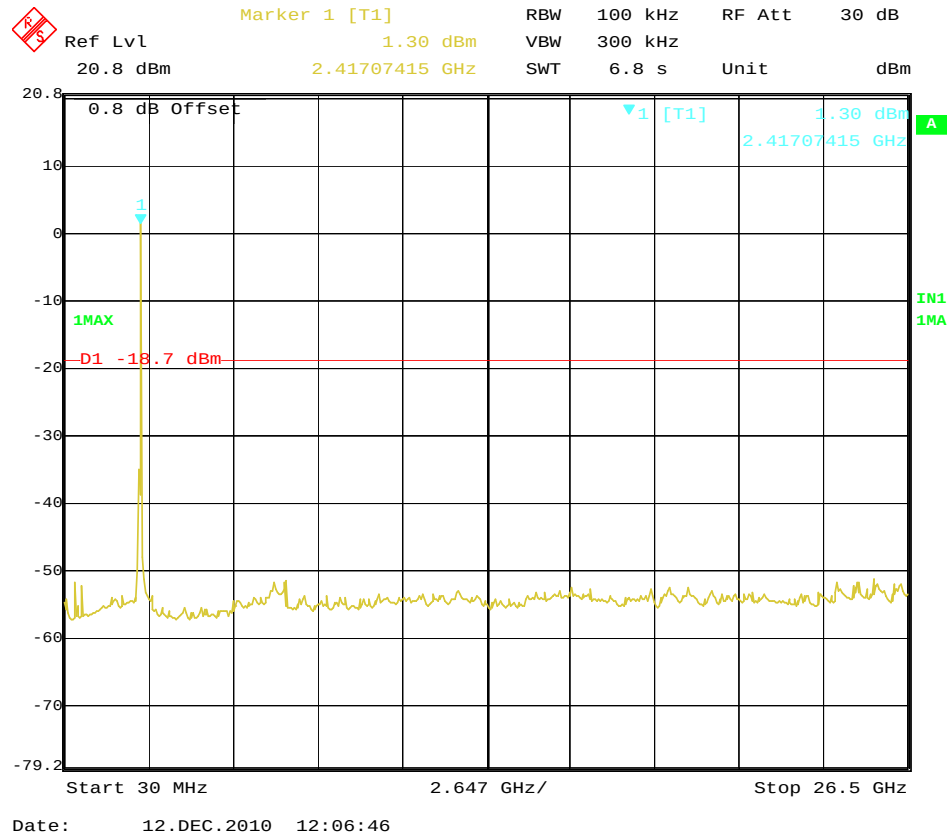
Channel 1 @ Antenna 1



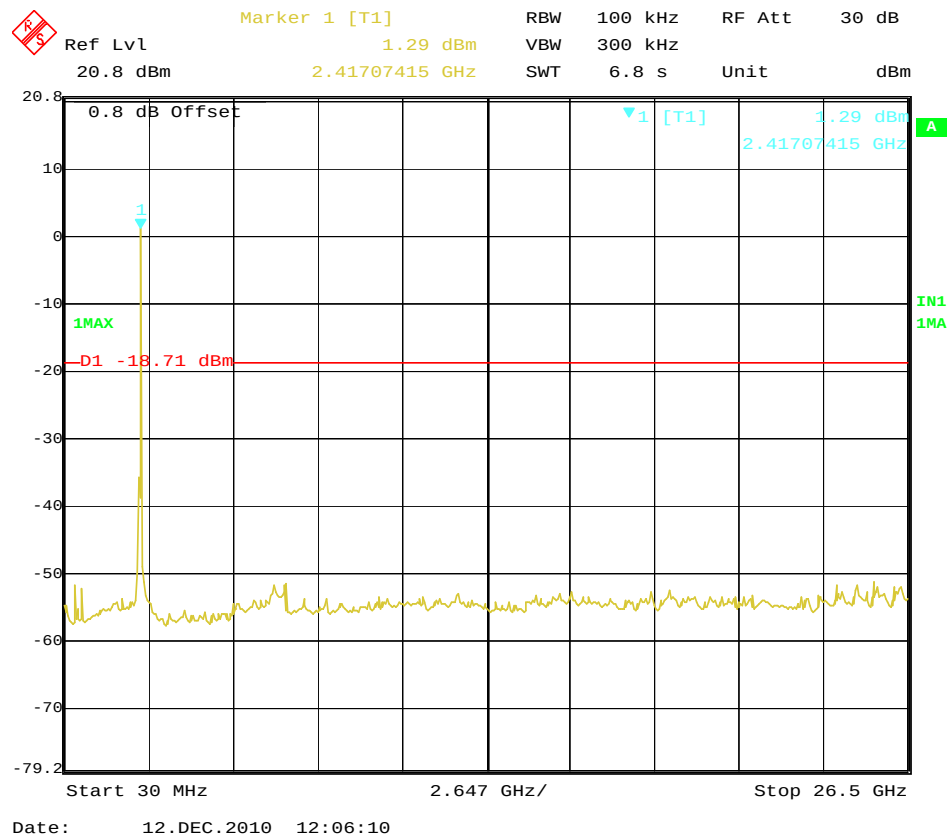
Channel 1 @ Antenna 2



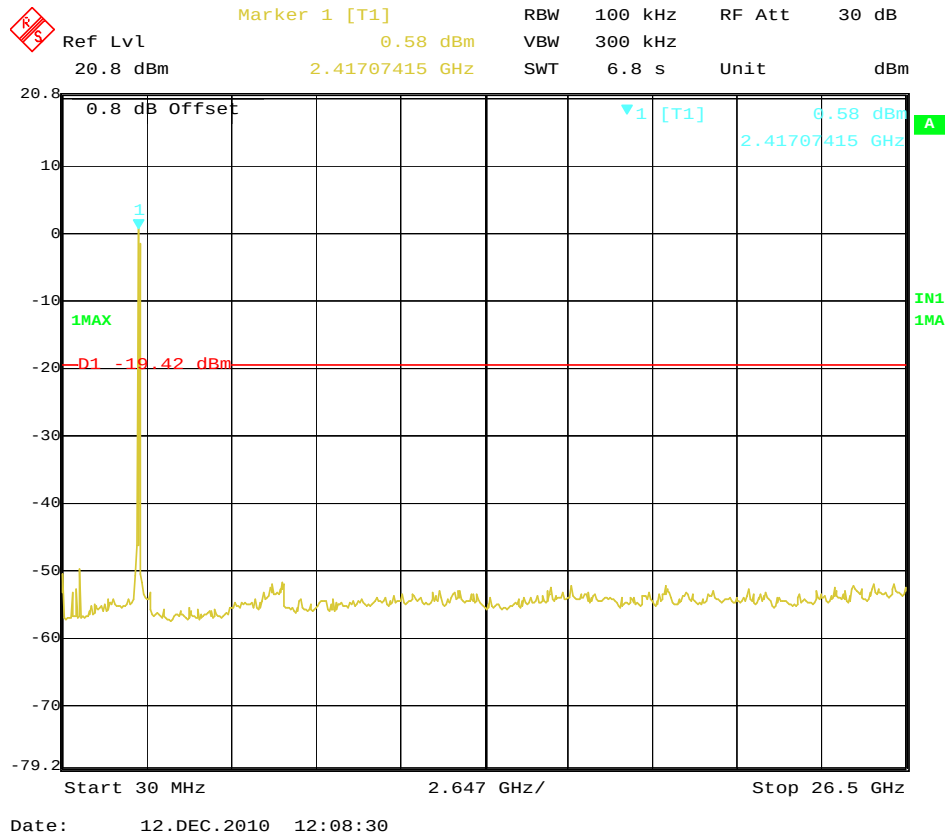
Channel 6 @ Antenna 1



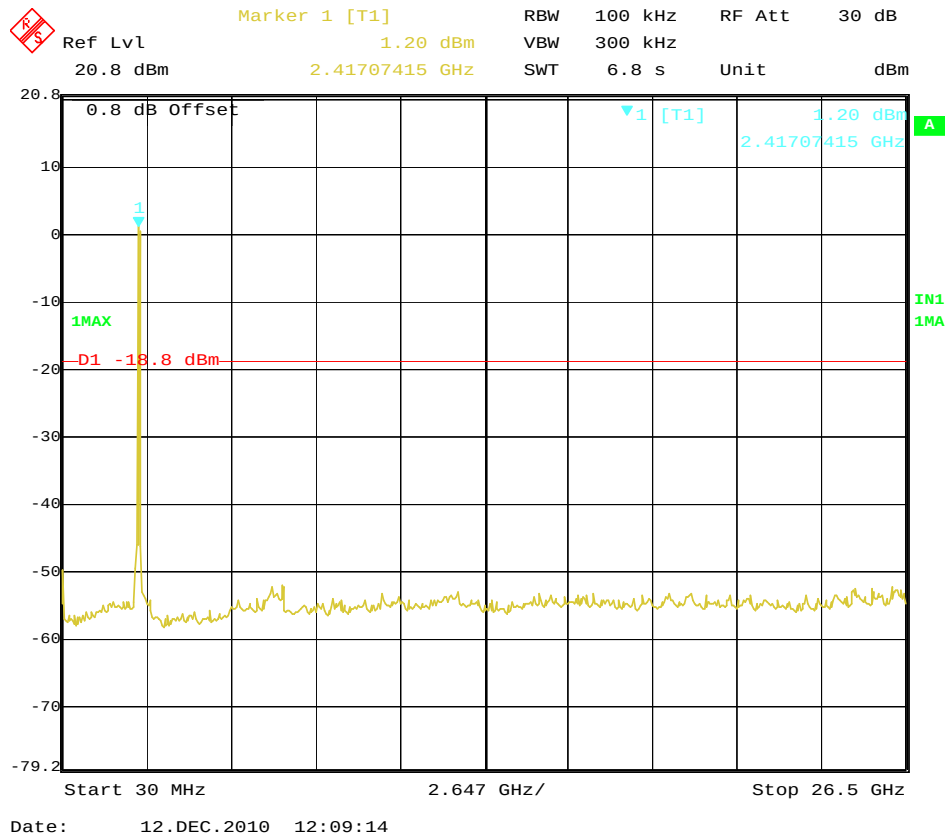
Channel 6 @ Antenna 2



Channel 11 @ Antenna 1

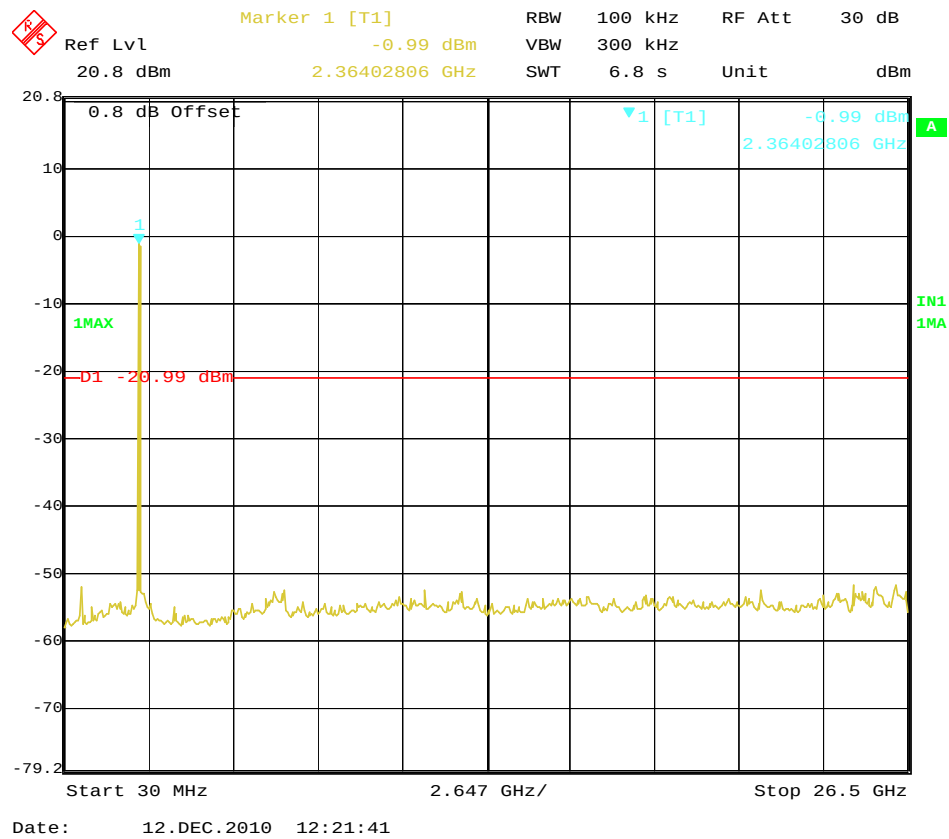


Channel 11 @ Antenna 2

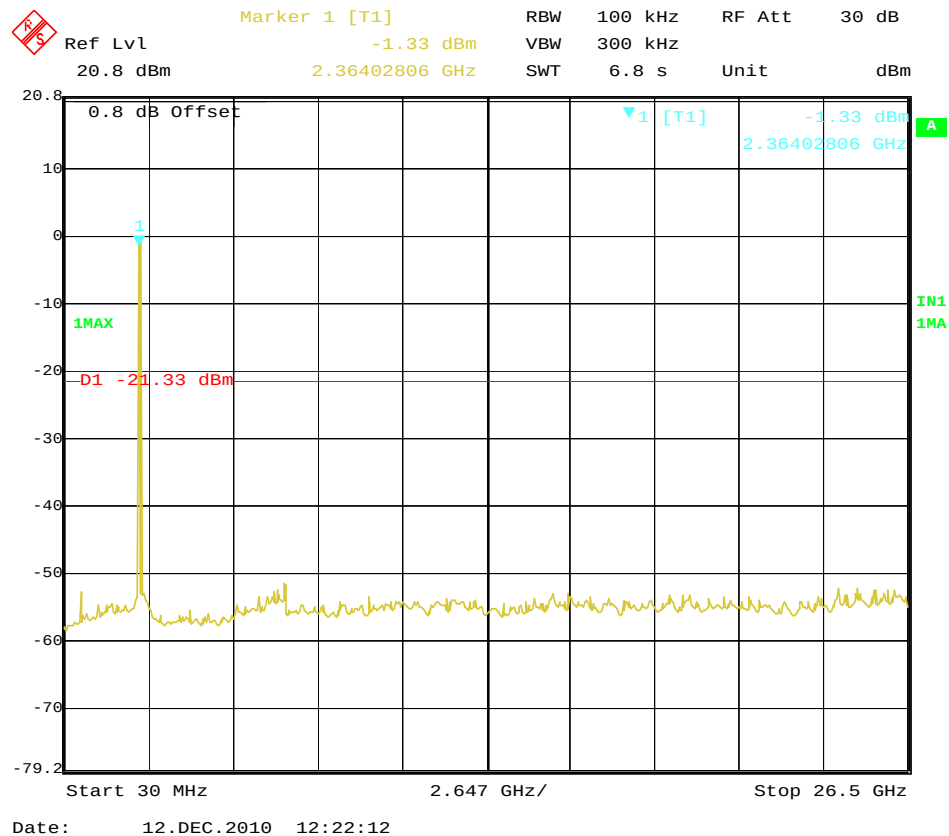


Note: For 802.11n (40MHz) Mode

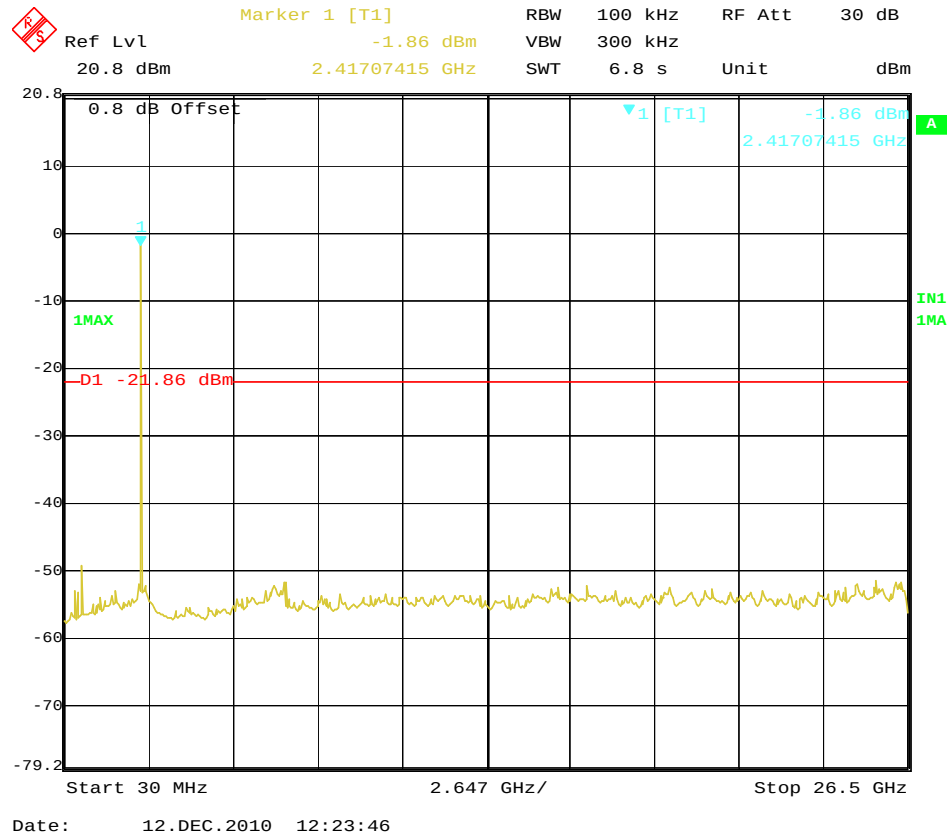
Channel 3 @ Antenna 1



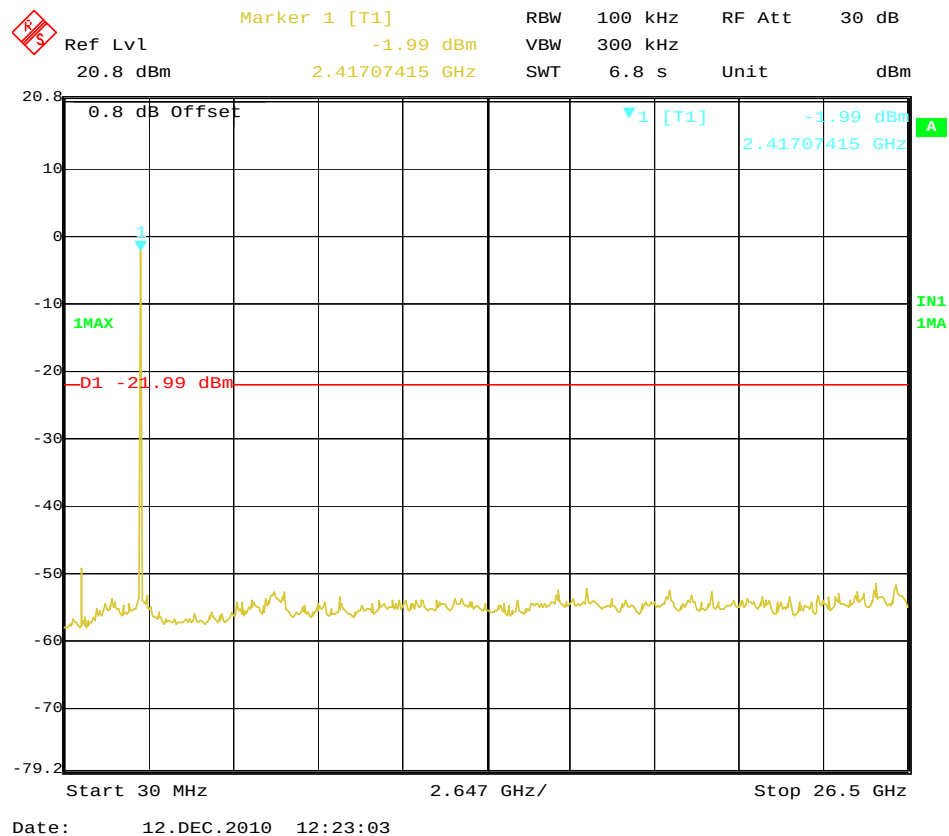
Channel 3 @ Antenna 2



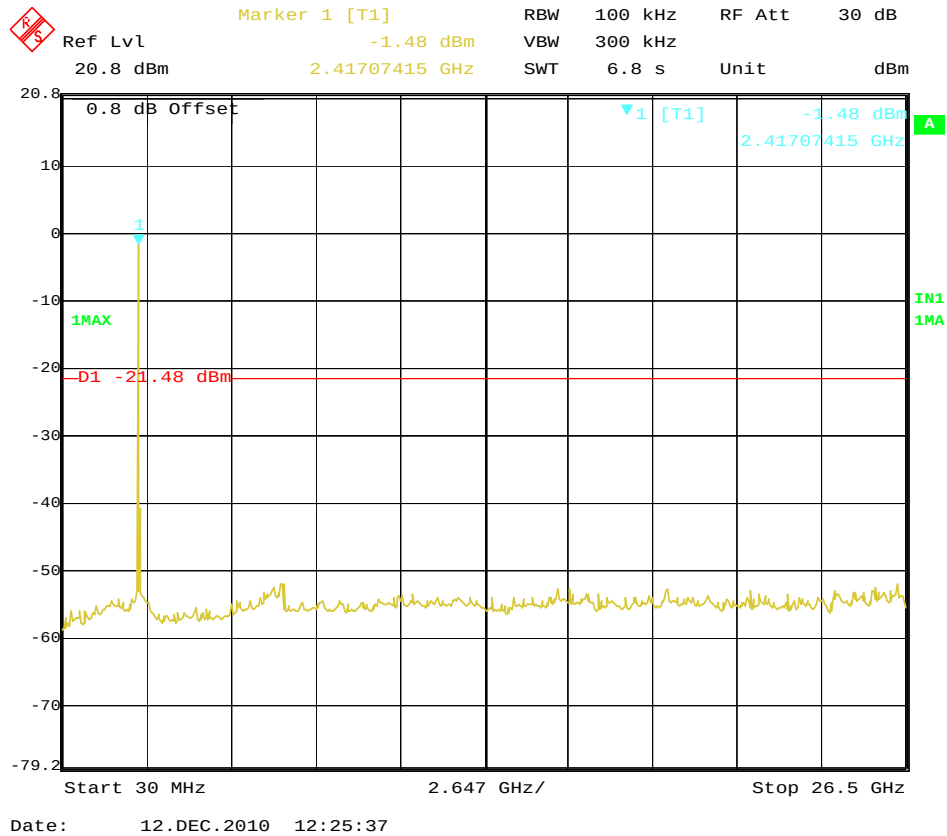
Channel 6 @ Antenna 1



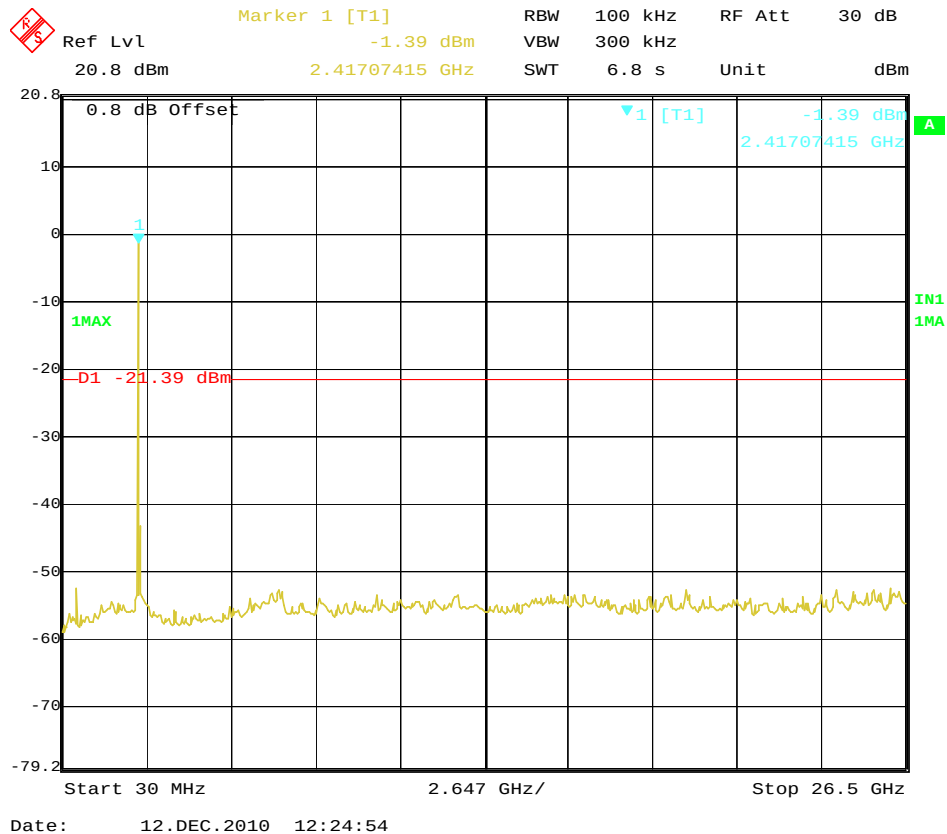
Channel 6 @ Antenna 2



Channel 9 @ Antenna 1

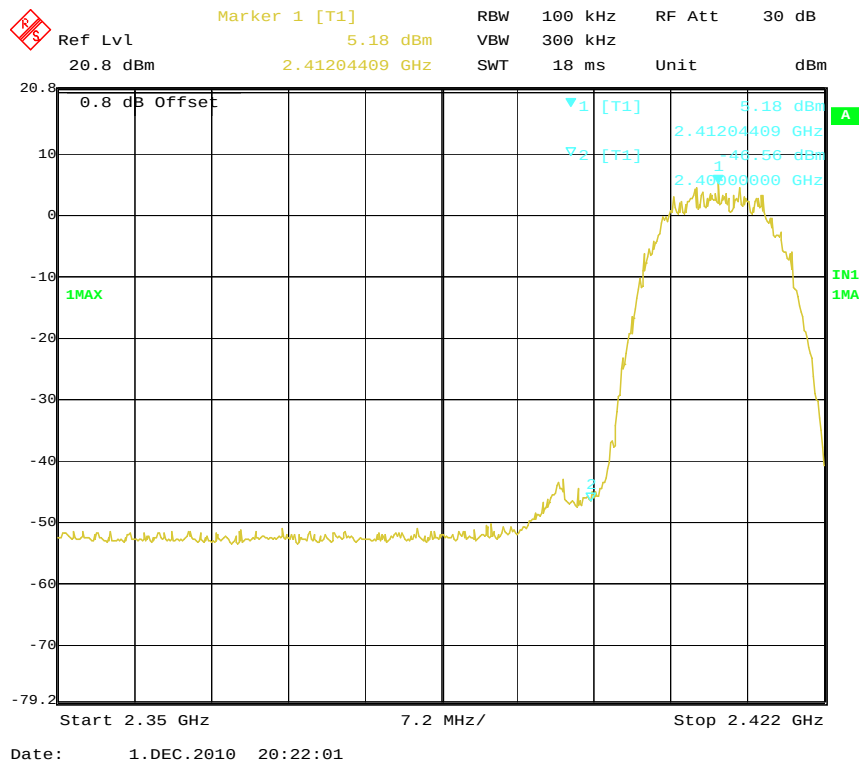


Channel 9 @ Antenna 2

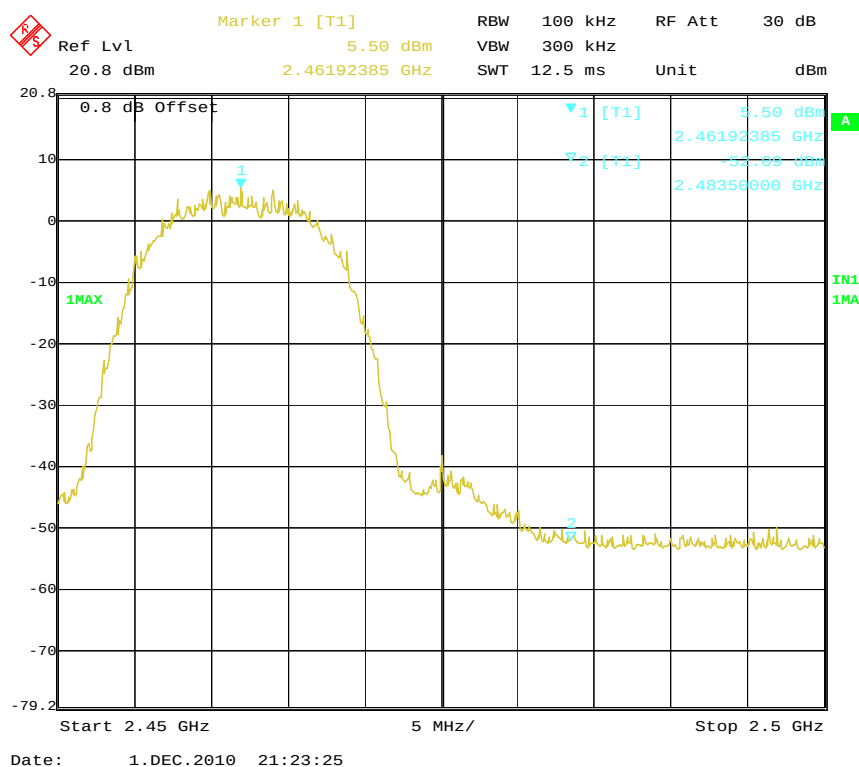


Test mode	Frequency	Delta peak to band emission	Limit(dBc)
802.11b Ant 1	2400MHz	51.74	20
	2483.5MHz	57.59	20

Channel 1

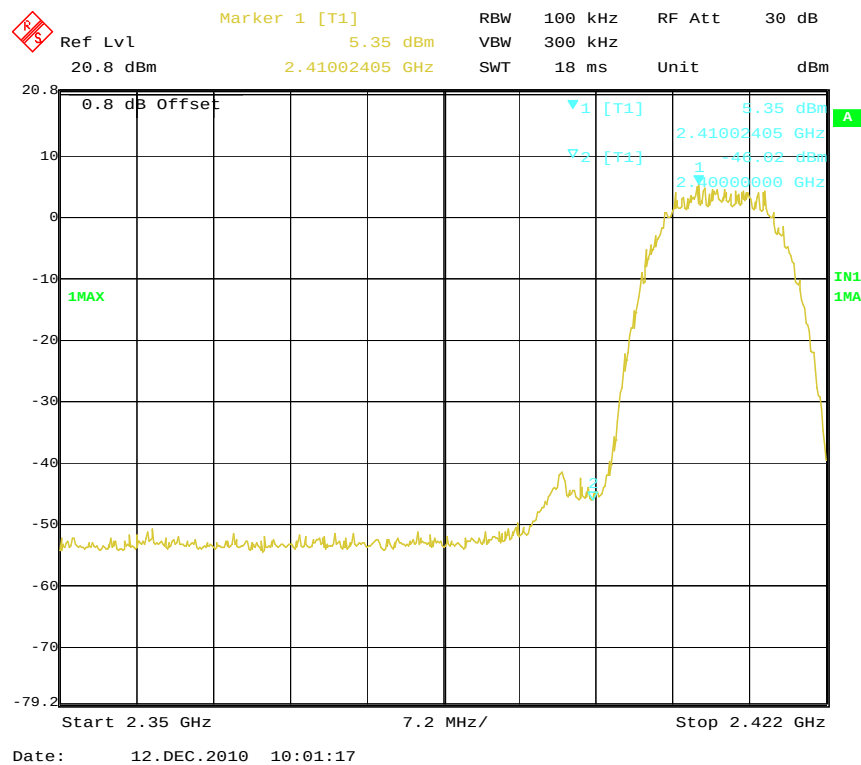


Channel 11

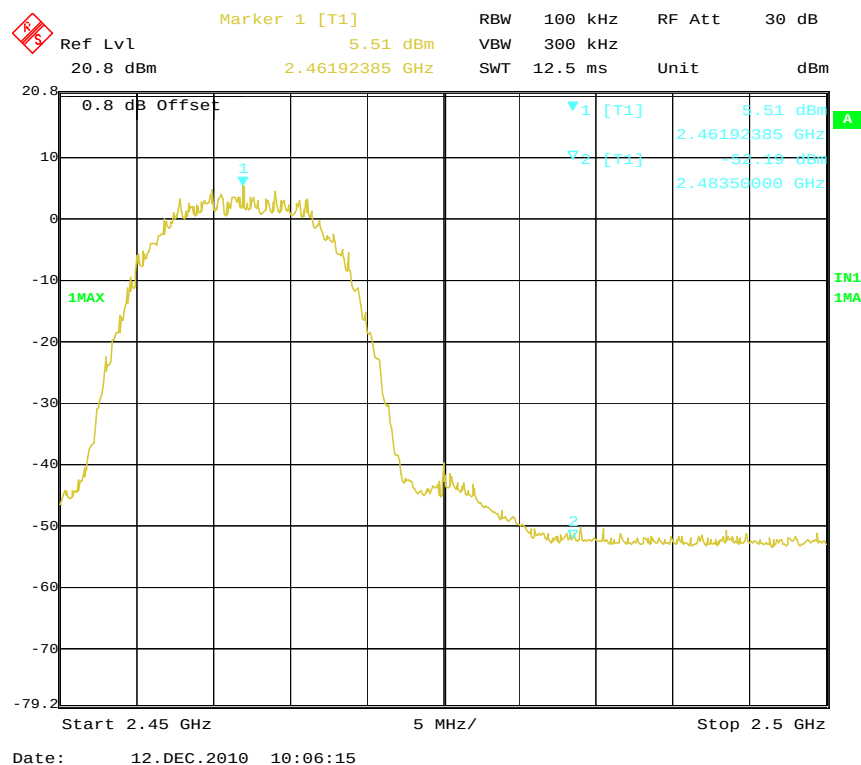


Test mode	Frequency	Delta peak to band emission	Limit(dBc)
802.11b Ant 2	2400MHz	51.37	20
	2483.5MHz	57.70	20

Channel 1

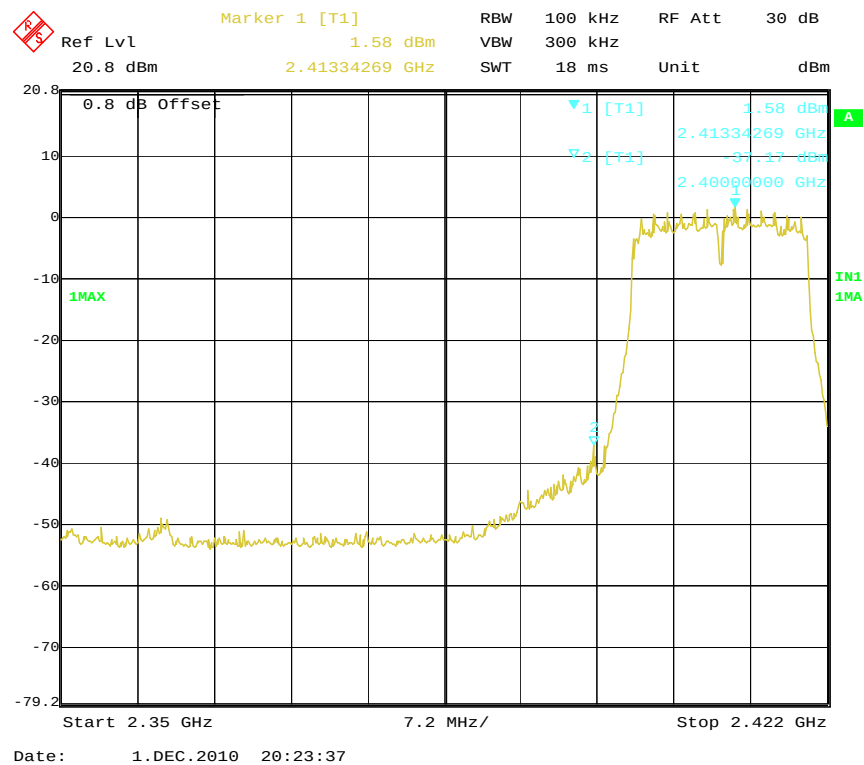


Channel 11

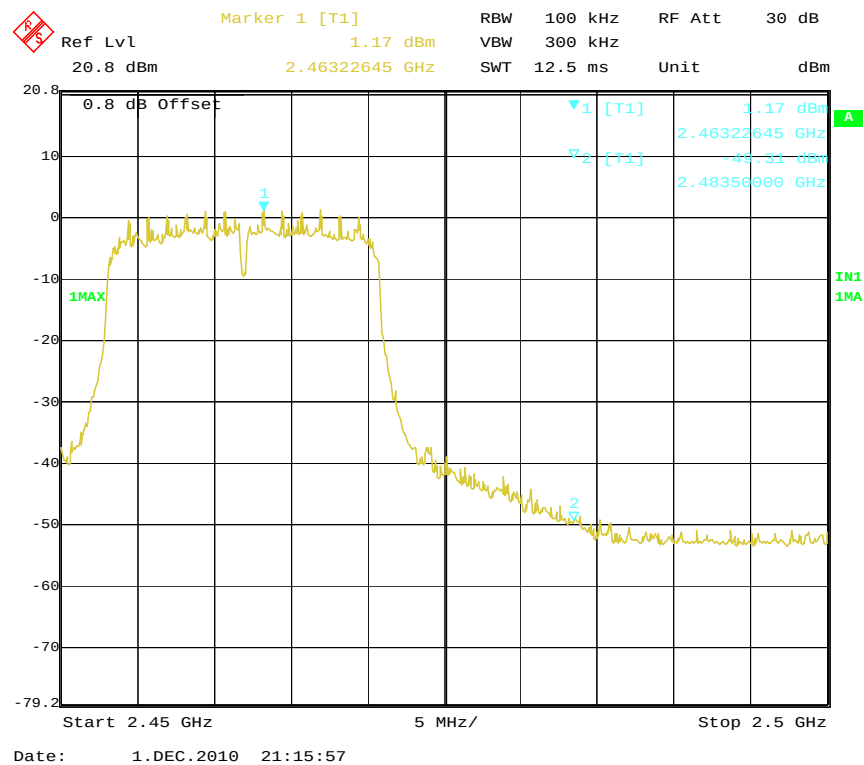


Test mode	Frequency	Delta peak to band emission	Limit(dBc)
802.11g Ant 1	2400MHz	38.75	20
	2483.5MHz	50.48	20

Channel 1

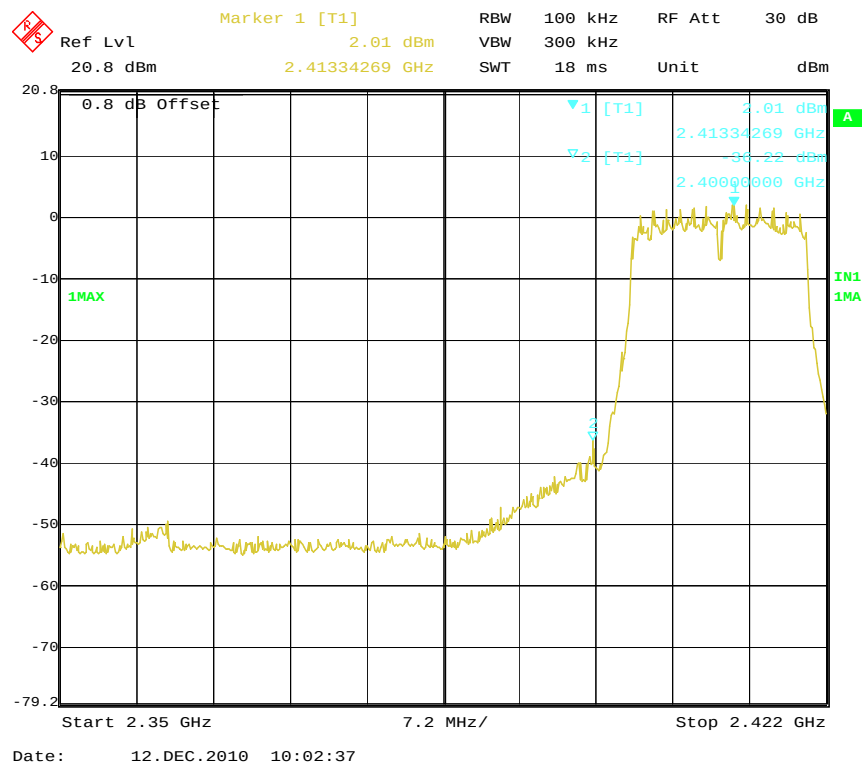


Channel 11

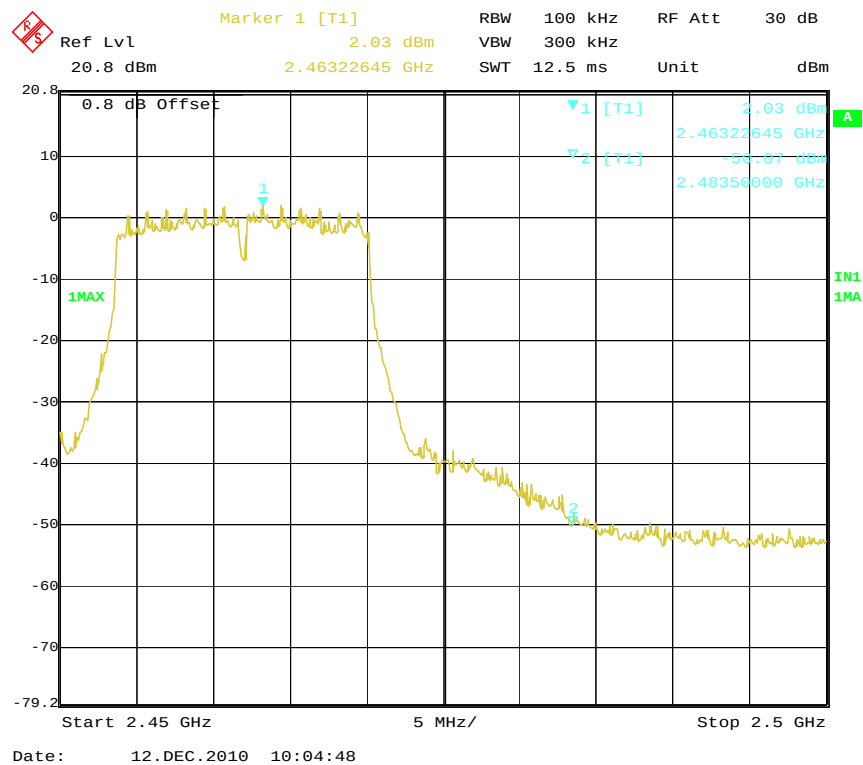


Test mode	Frequency	Delta peak to band emission	Limit(dBc)
802.11g Ant 2	2400MHz	38.23	20
	2483.5MHz	52.10	20

Channel 1

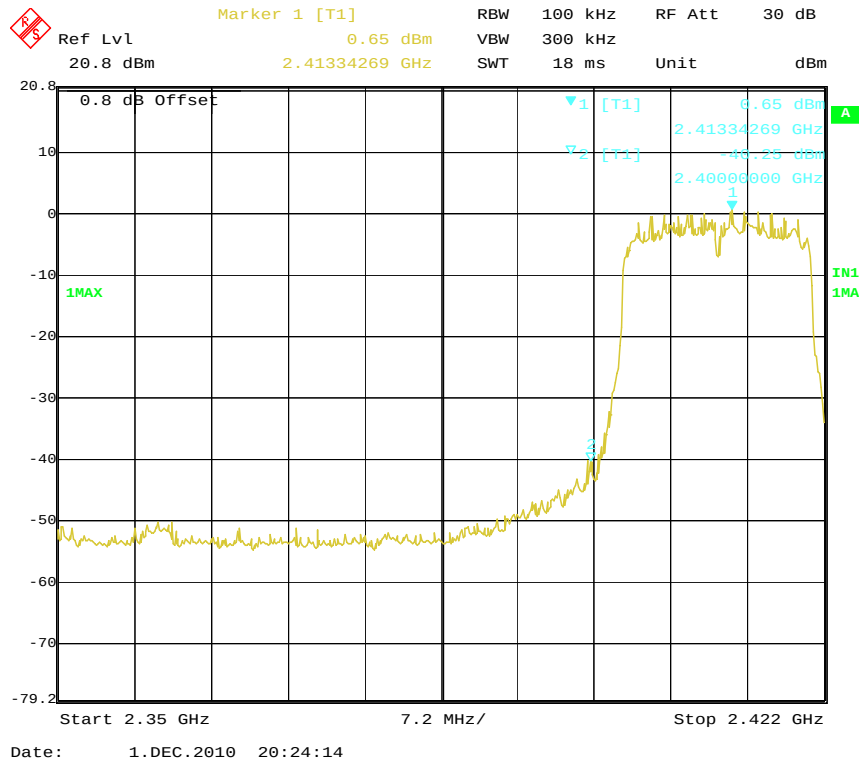


Channel 11

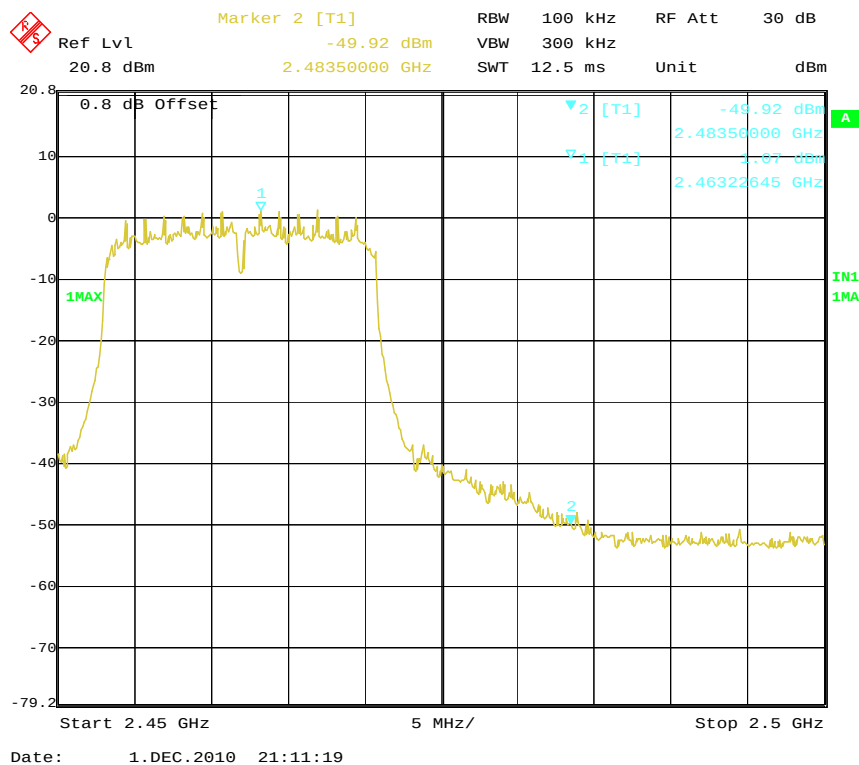


Test mode	Frequency	Delta peak to band emission	Limit(dBc)
802.11N 20M-ANT1	2400MHz	40.90	20
	2483.5MHz	50.99	20

Channel 1

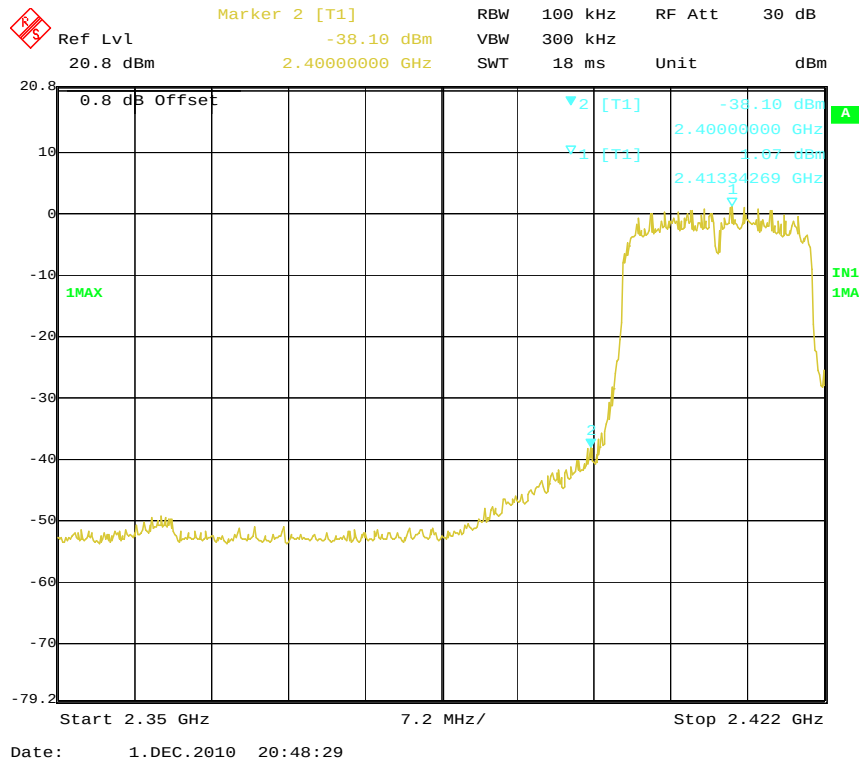


Channel 11

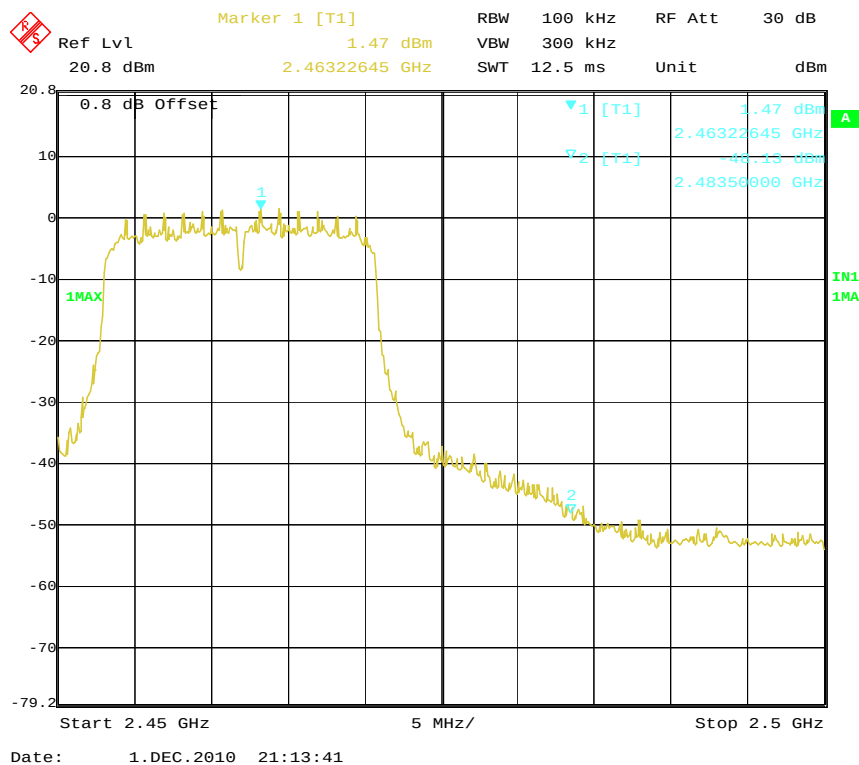


Test mode	Frequency	Delta peak to band emission	Limit(dBc)
802.11N 20M-ANT2	2400MHz	39.17	20
	2483.5MHz	49.60	20

Channel 1

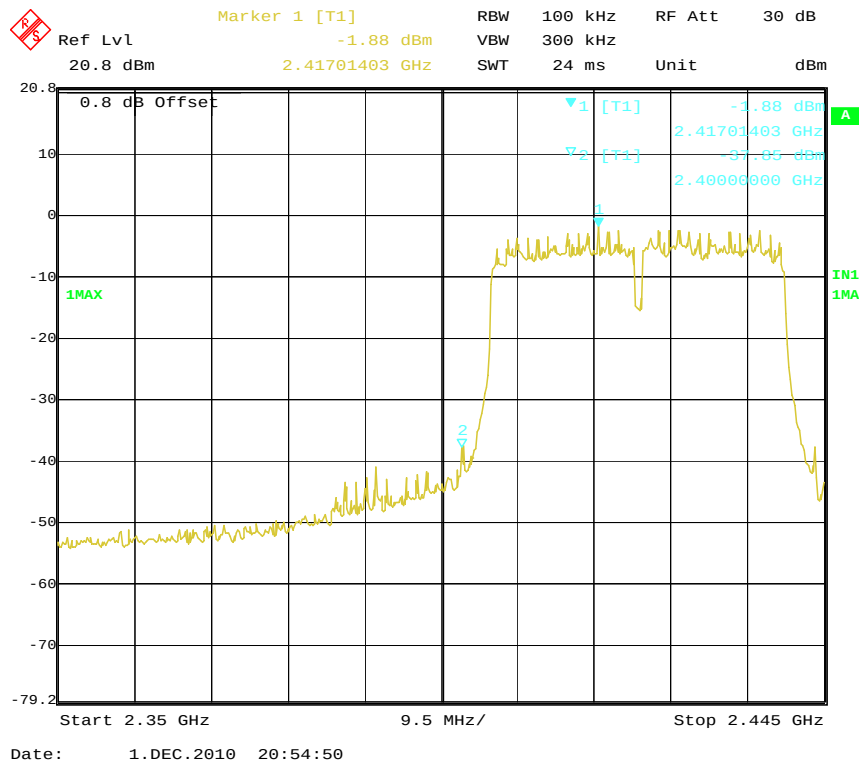


Channel 11

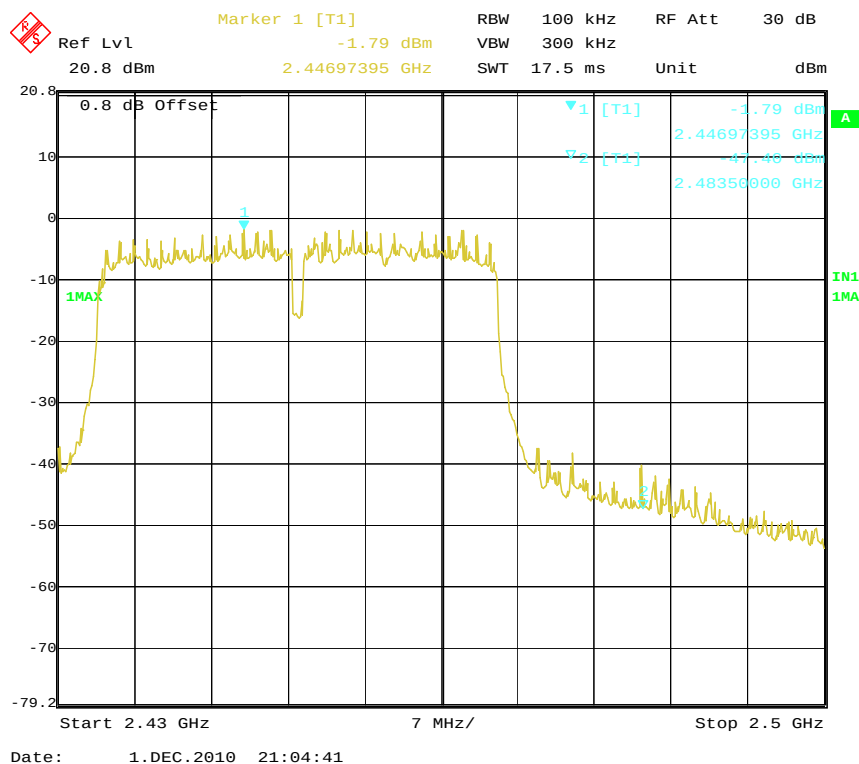


Test mode	Frequency	Delta peak to band emission	Limit(dBc)
802.11N 40M-ANT1	2400MHz	35.97	20
	2483.5MHz	45.61	20

Channel 3

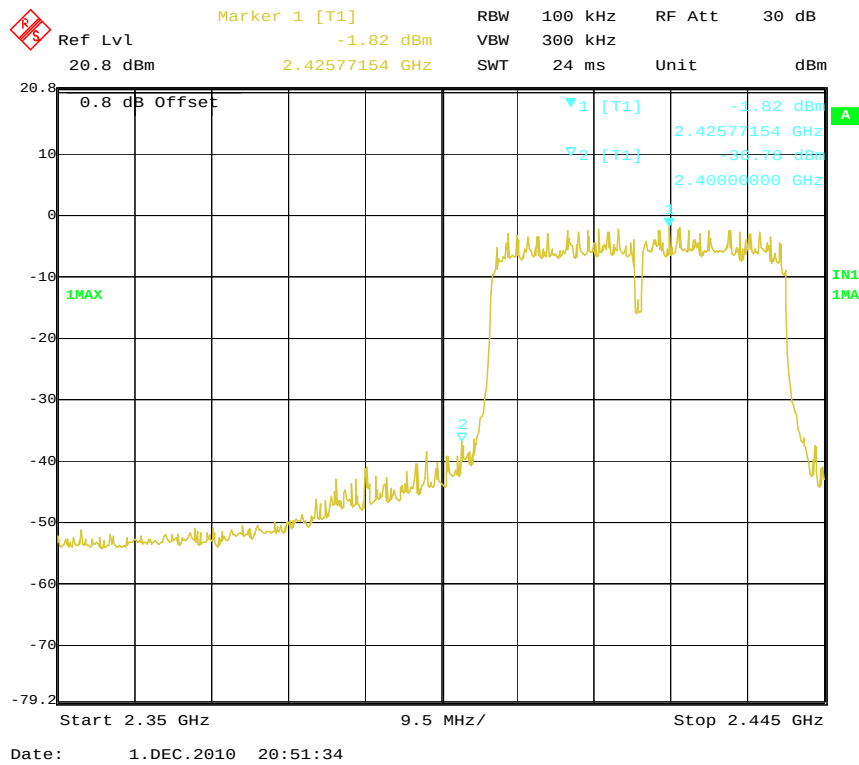


Channel 9

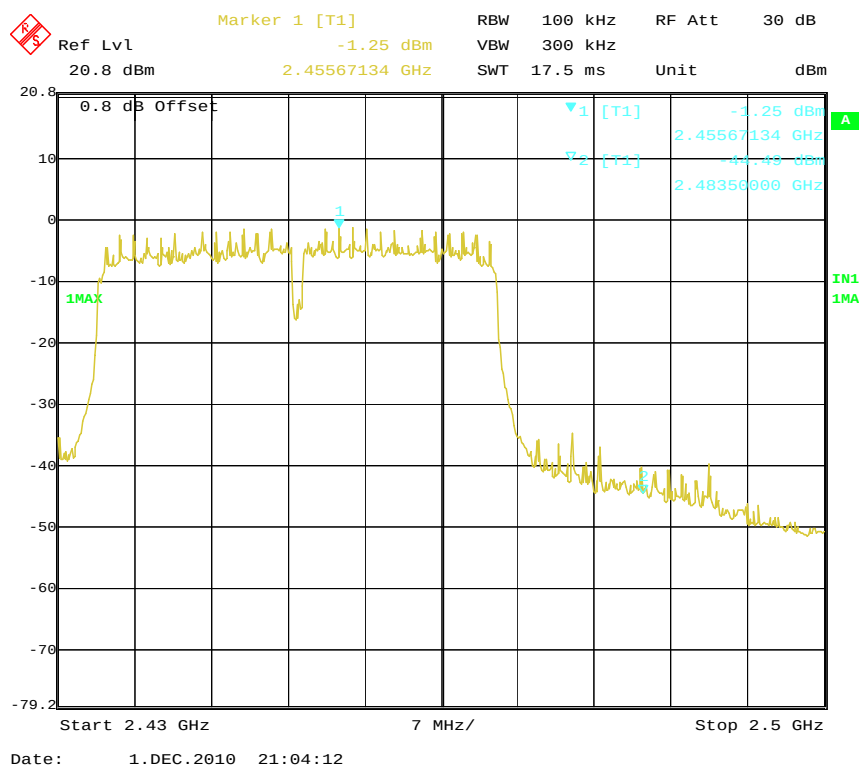


Test mode	Frequency	Delta peak to band emission	Limit(dBc)
802.11N 40M-ANT2	2400MHz	34.96	20
	2483.5MHz	43.24	20

Channel 3

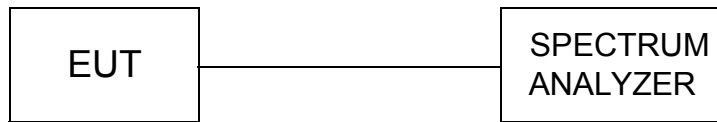


Channel 9



4.7. 6dB Bandwidth

TEST CONFIGURATION



TEST PROCEDURE

According to C63.10-2009, The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 KHz RBW and 300KHz VBW.

The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

LIMIT

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

TEST RESULTS

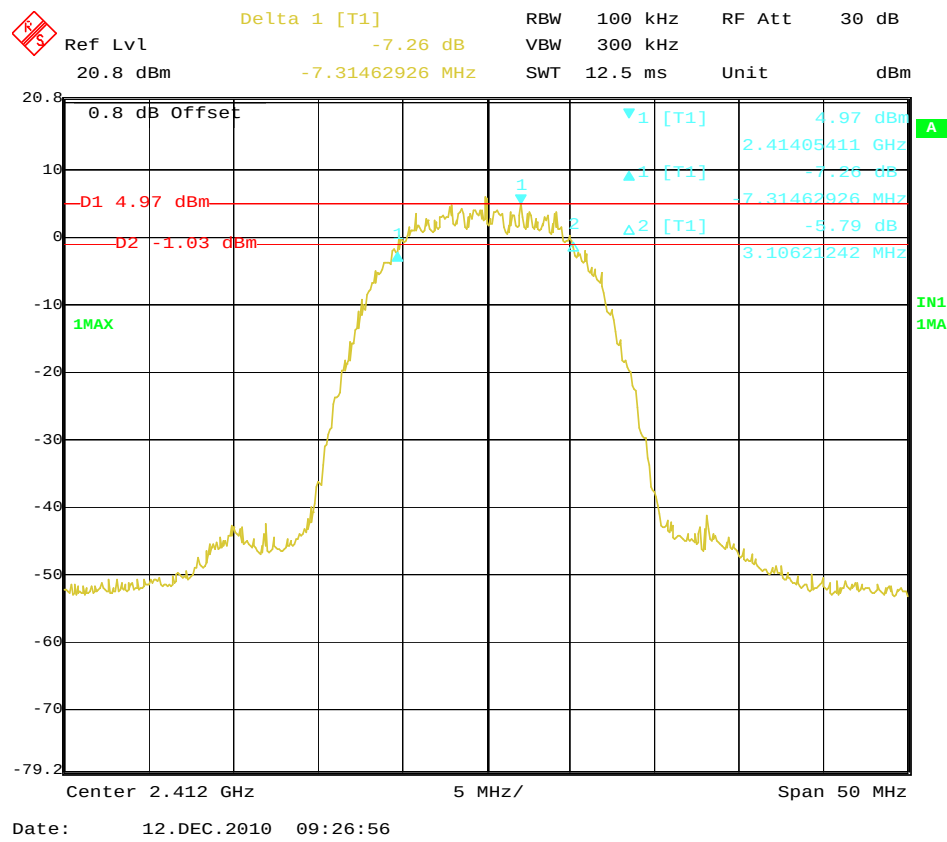
Company	HUAWEI TECHNOLOGIES CO.,LTD.	Test Date	12/12/2010
Product Name	Home Gateway	Test By	Eric Zhang
Model Name	HUAWEI HG655b	TEMP&Humidity	25°C, 55%

Mode	CHANNEL	6 dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS/FAIL
		Ant 1	Ant 2		
802.11b	1	10.42	10.42	0.5	PASS
	6	10.52	10.52	0.5	PASS
	11	9.92	9.92	0.5	PASS
802.11g	1	16.43	16.43	0.5	PASS
	6	16.43	16.43	0.5	PASS
	11	16.38	16.48	0.5	PASS
802.11n HT20	1	16.82	16.82	0.5	PASS
	6	16.82	16.82	0.5	PASS
	11	17.02	16.92	0.5	PASS
802.11n HT40	3	35.06	35.56	0.5	PASS
	6	35.06	35.06	0.5	PASS
	9	35.06	35.66	0.5	PASS

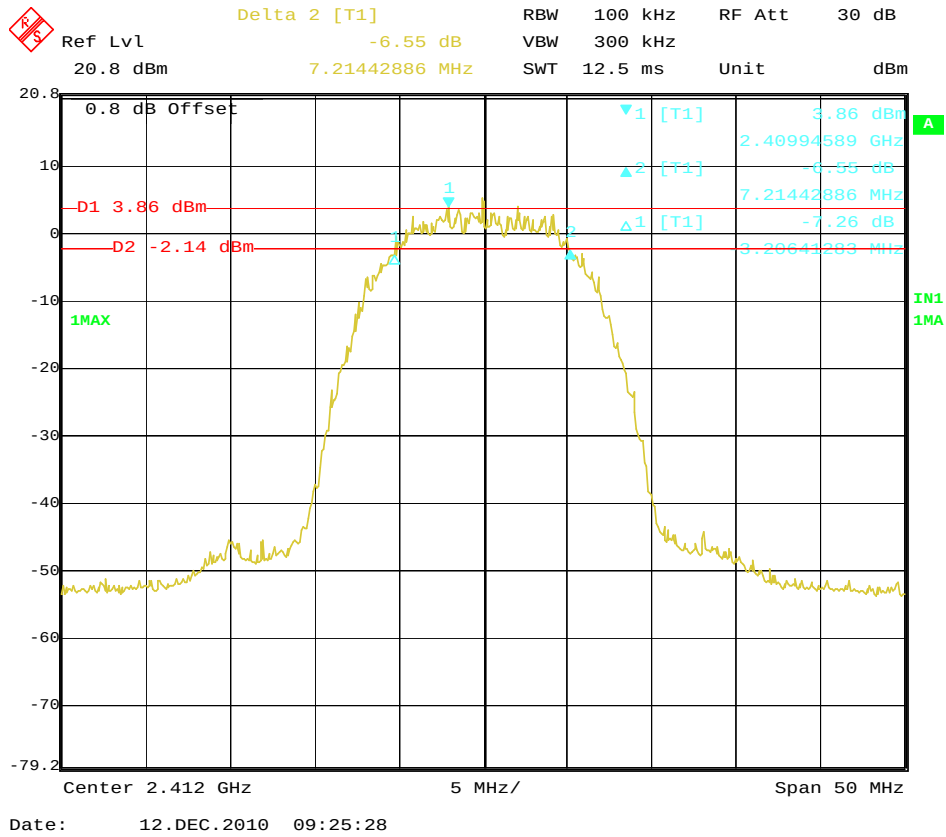
Plots of 6dB Bandwidth Measurement

Note: For 802.11b Mode

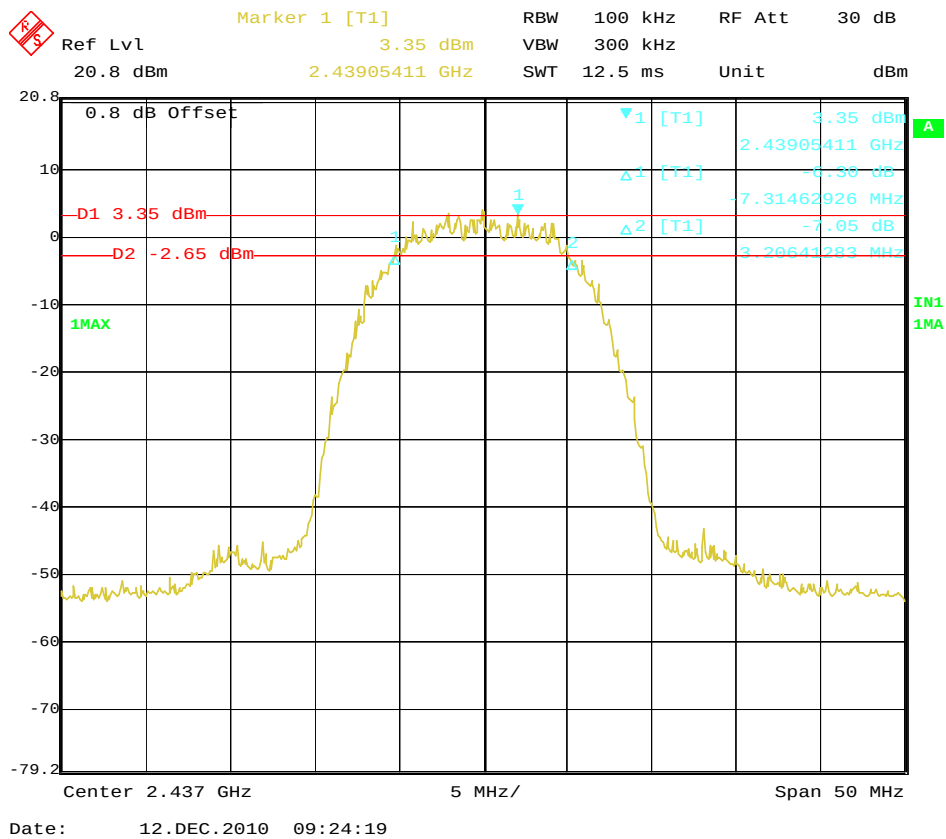
Channel 1@ Antenna 1



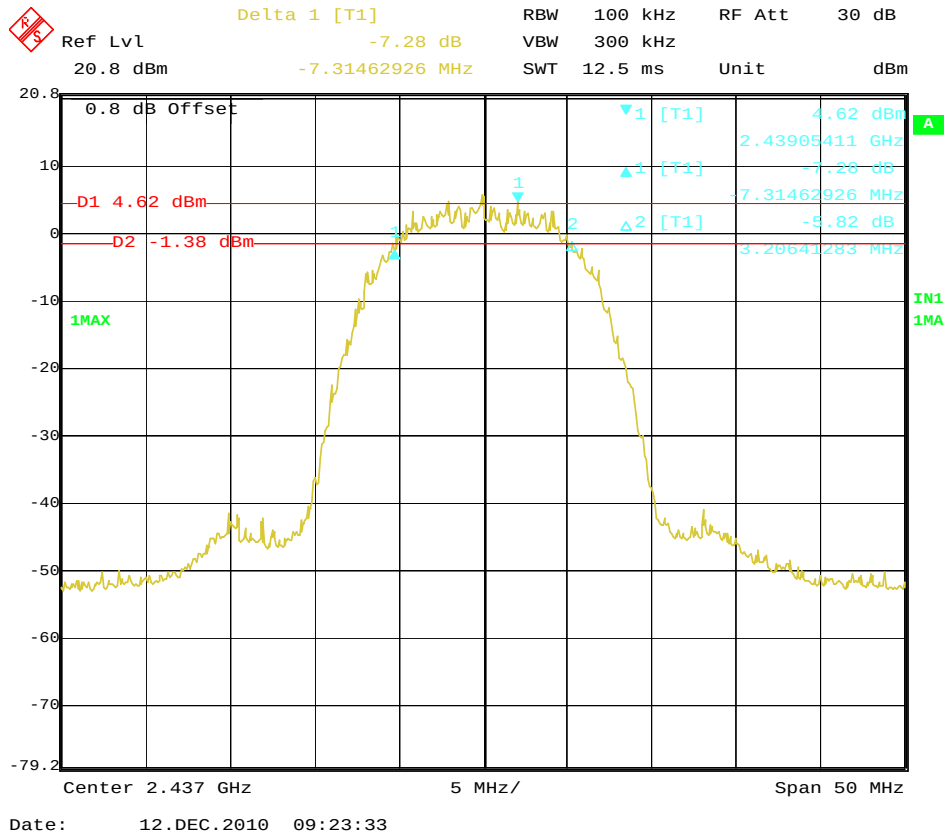
Channel 1@ Antenna 2



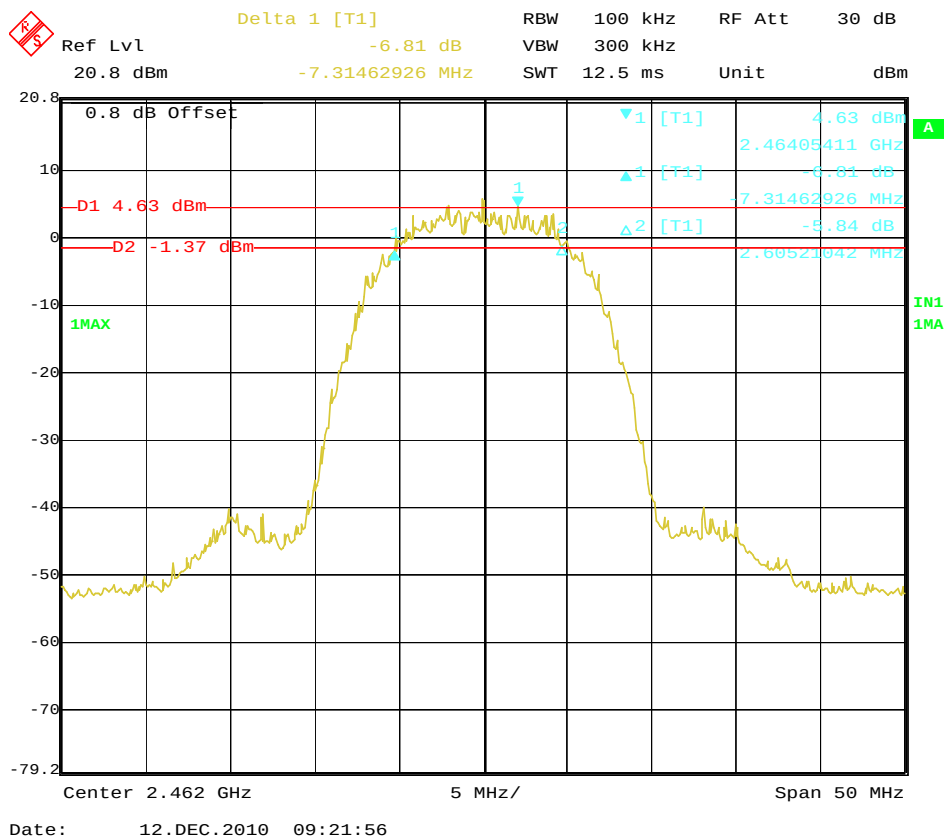
Channel 6@ Antenna 1



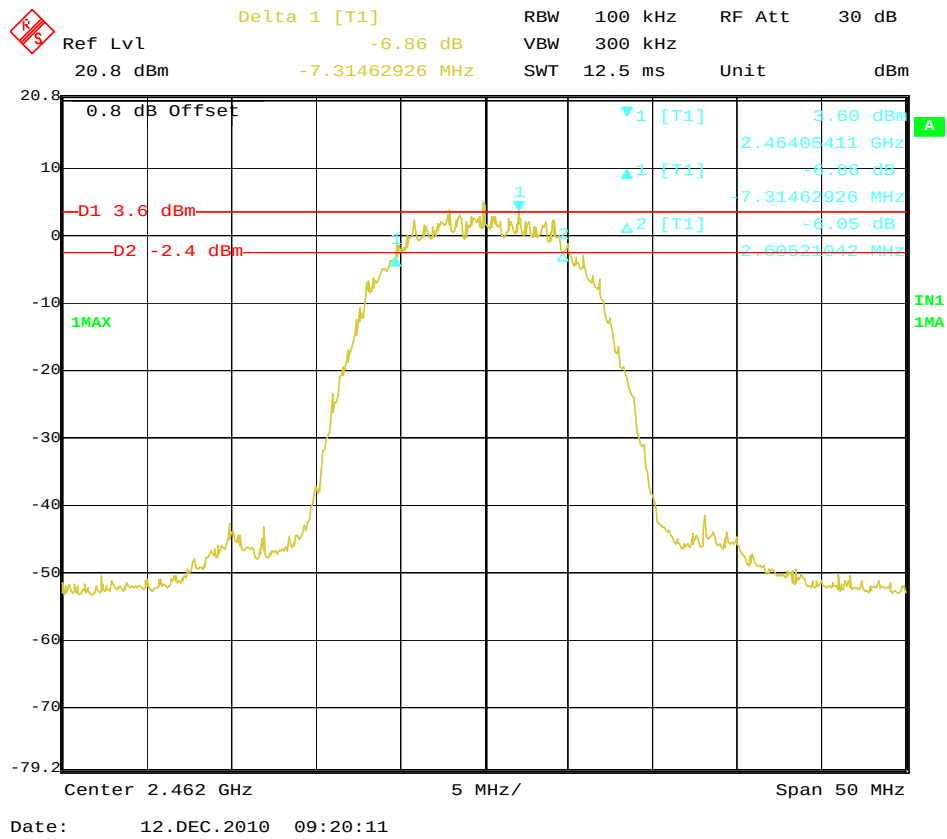
Channel 6@ Antenna 2



Channel 11 @ Antenna 1

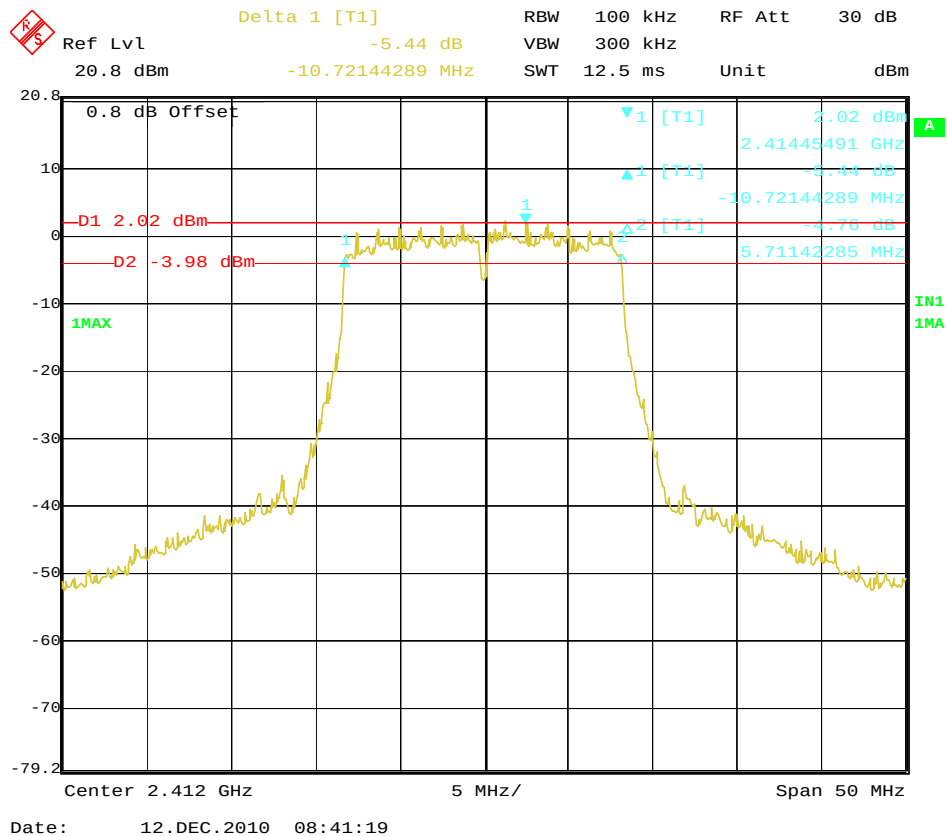


Channel 11 @ Antenna 2

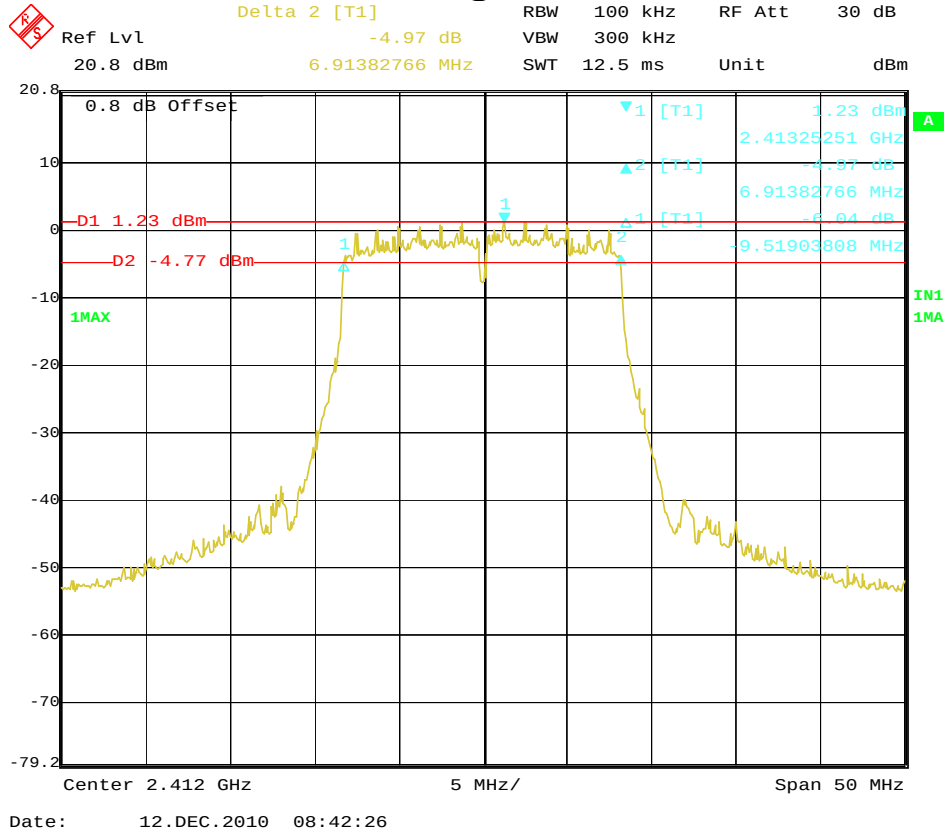


Note : For 802.11g Mode

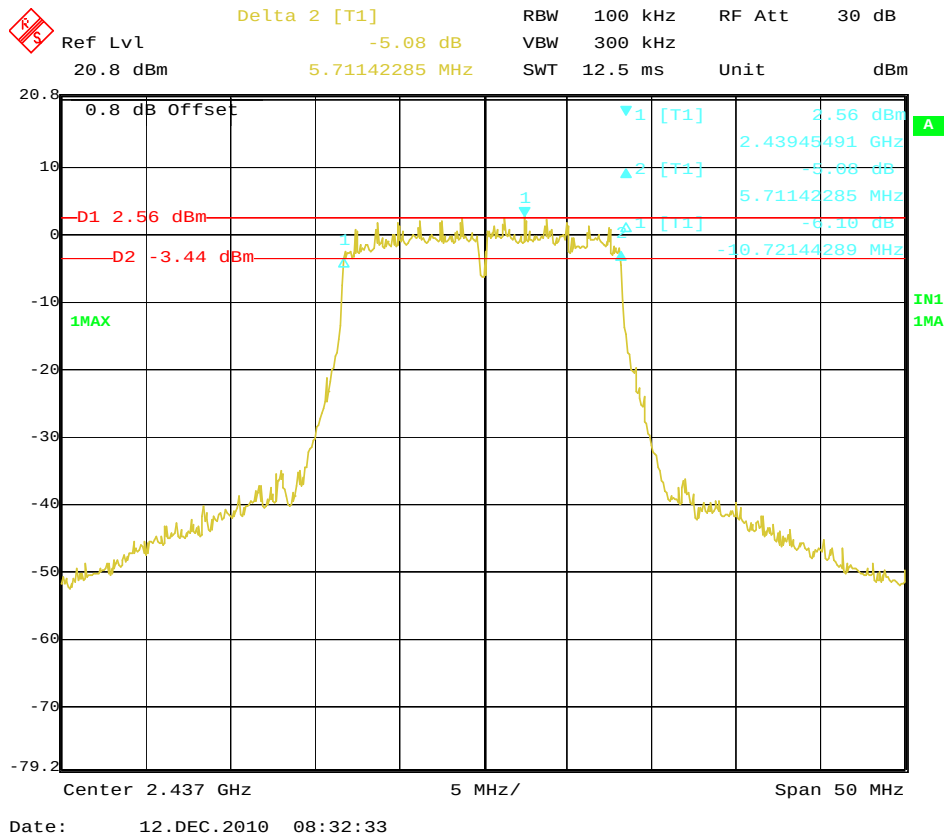
Channel 1@ Antenna 1



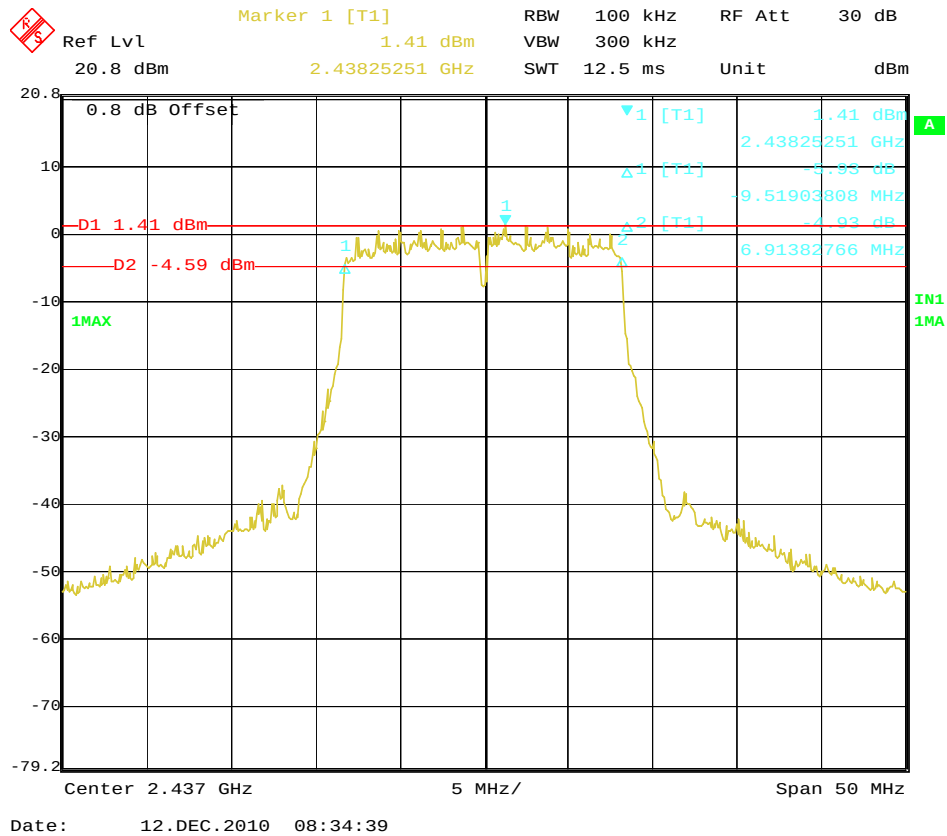
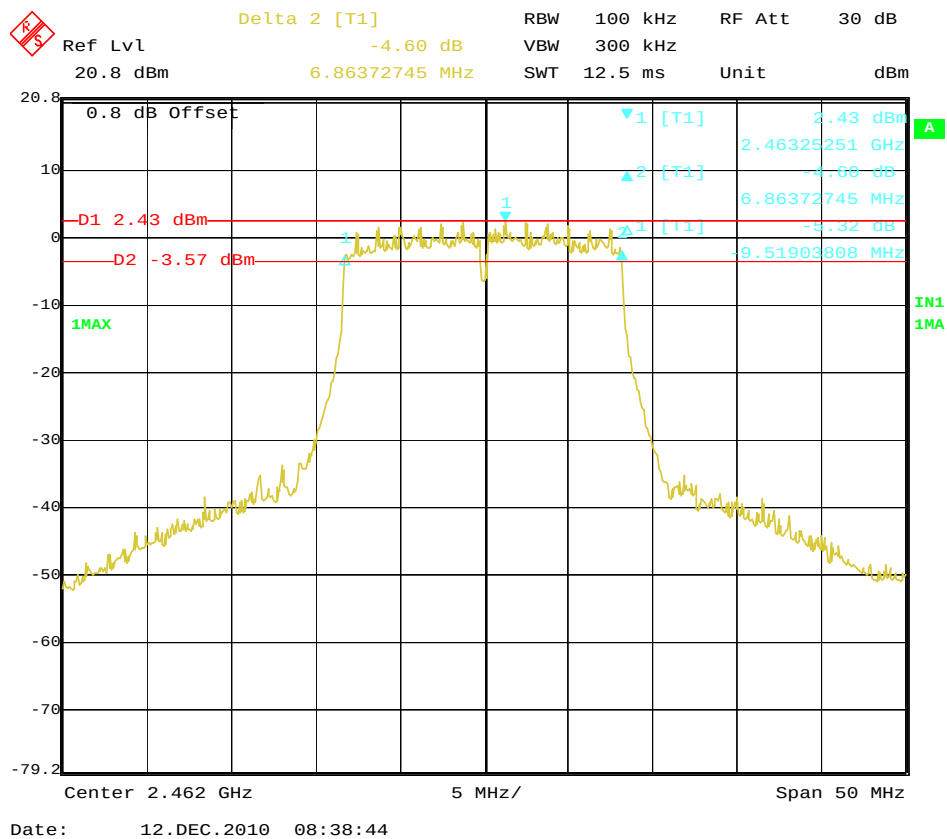
Channel 1@ Antenna 2

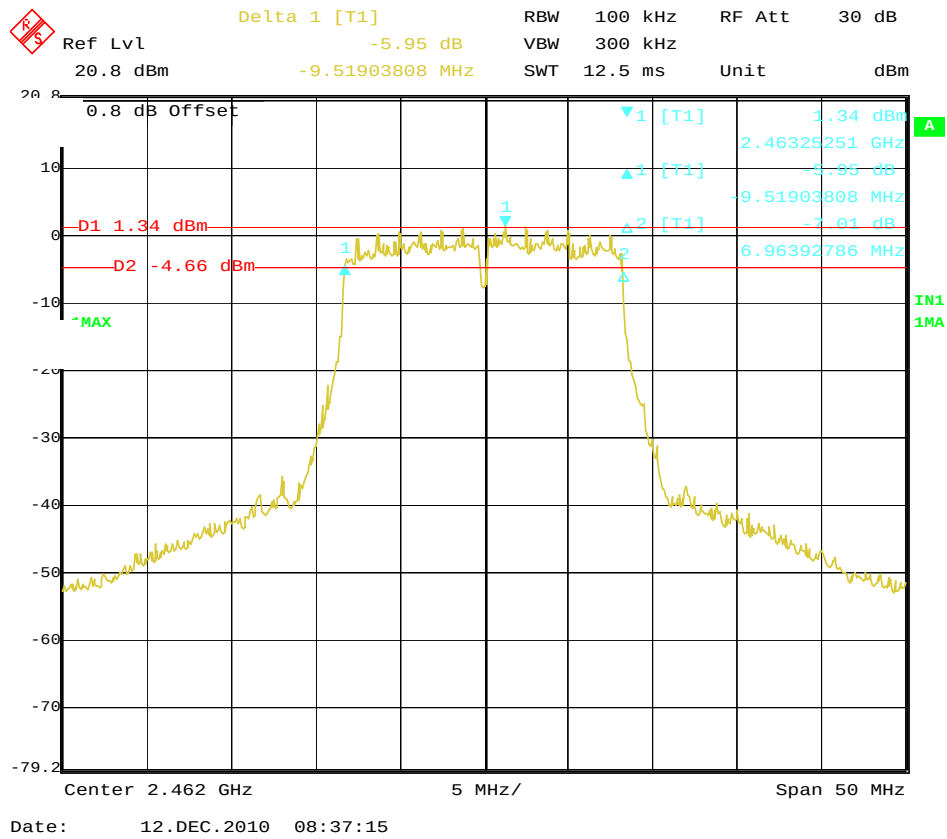


Channel 6@ Antenna 1



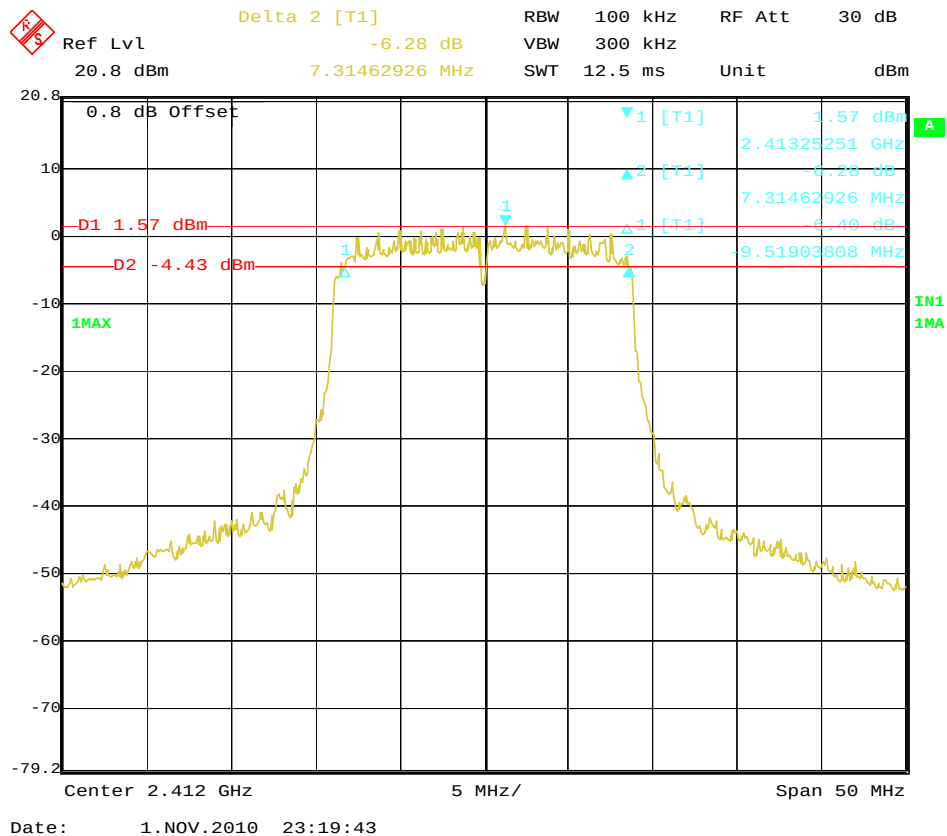
Channel 6@ Antenna 2

**Channel 11 @ Antenna 1****Channel 11 @ Antenna 2**

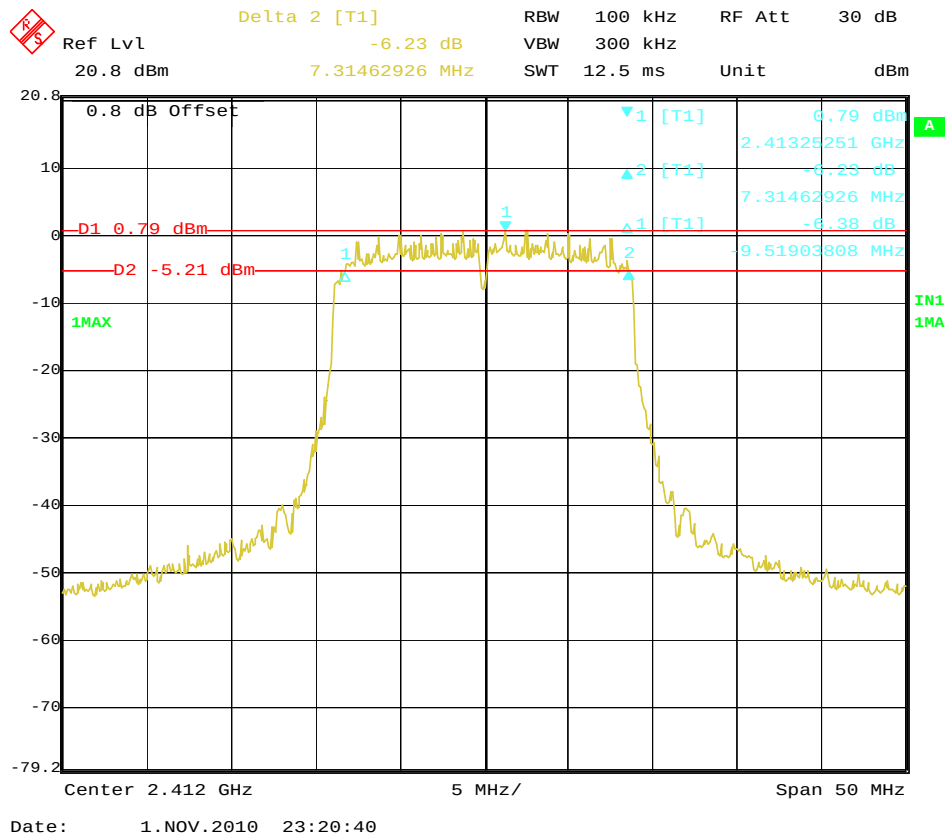


Note : For 802.11n (20MHz) Mode

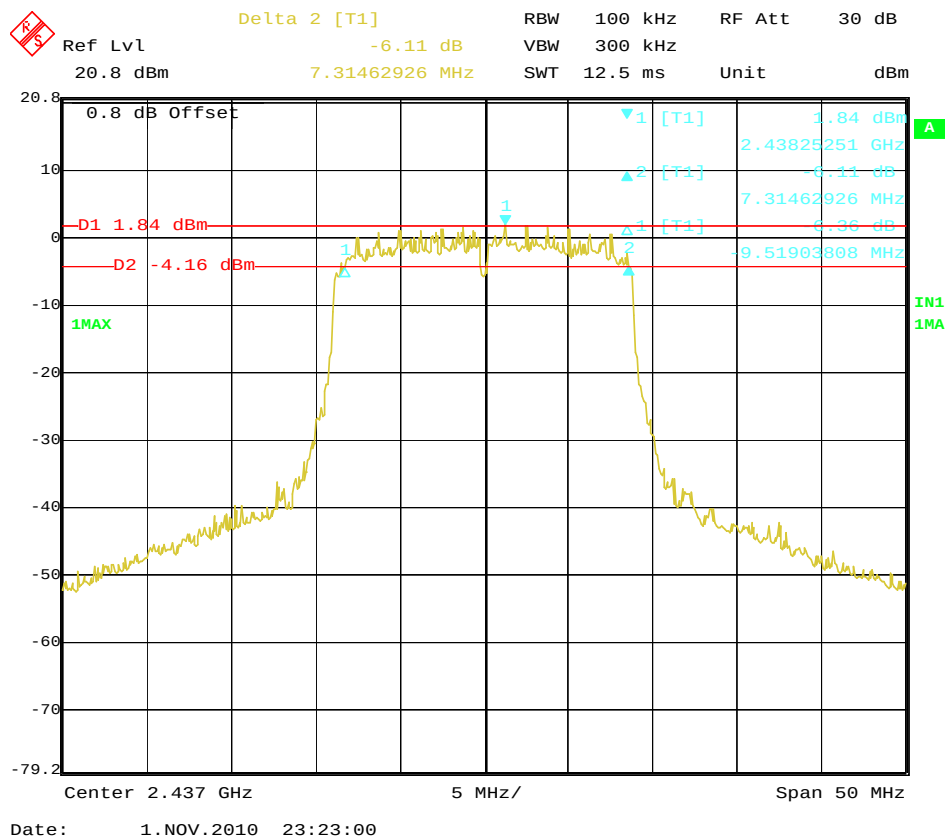
Channel 1 @ Antenna 1



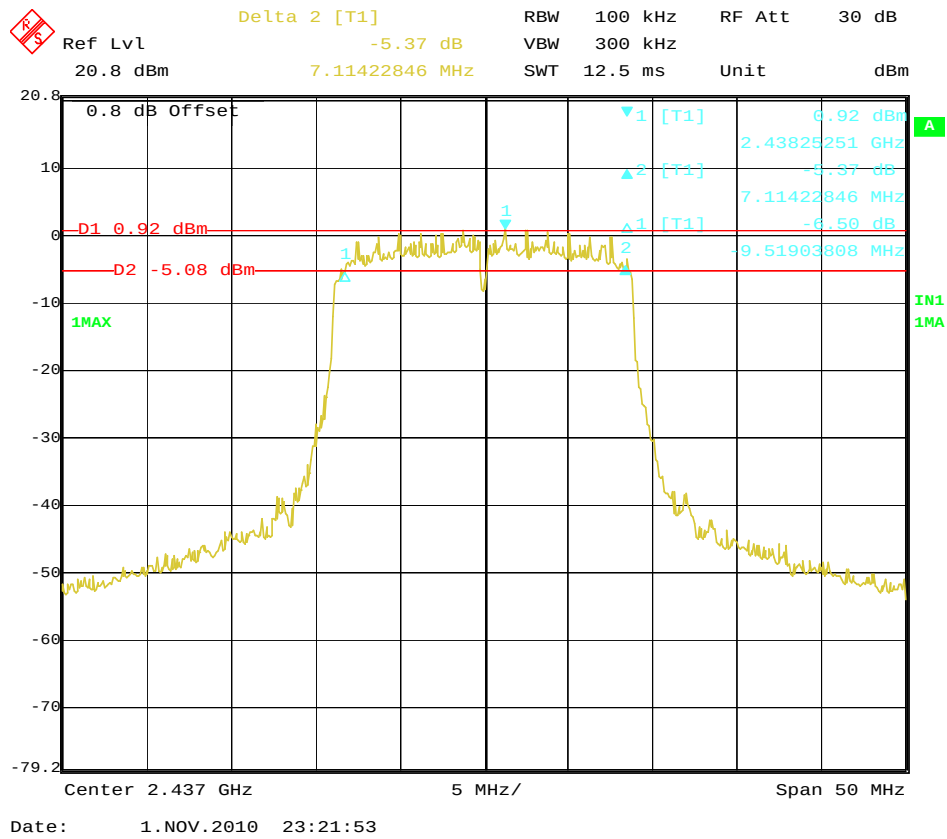
Channel 1 @ Antenna 2



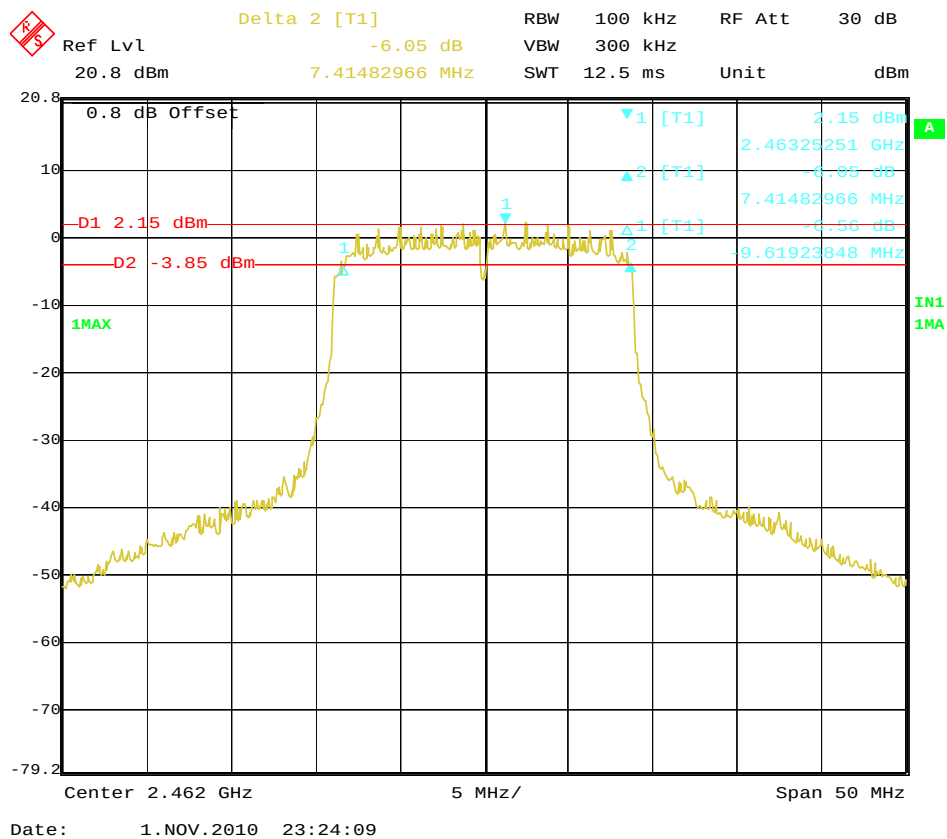
Channel 6 @ Antenna 1



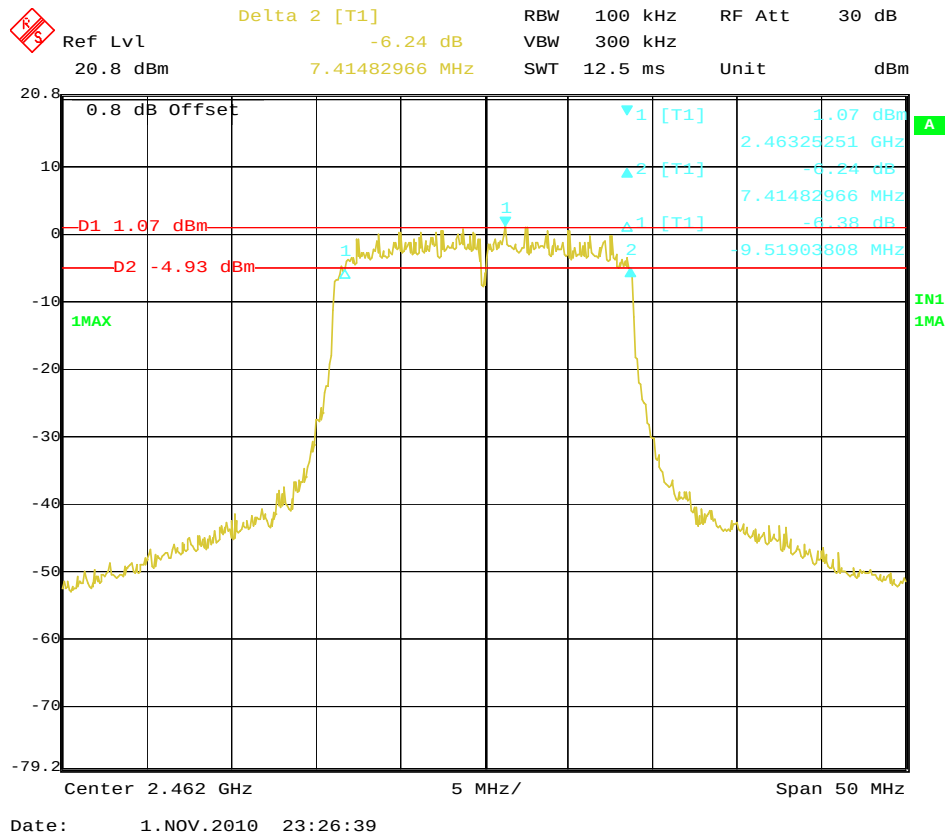
Channel 6 @ Antenna 2



Channel 11 @ Antenna 1

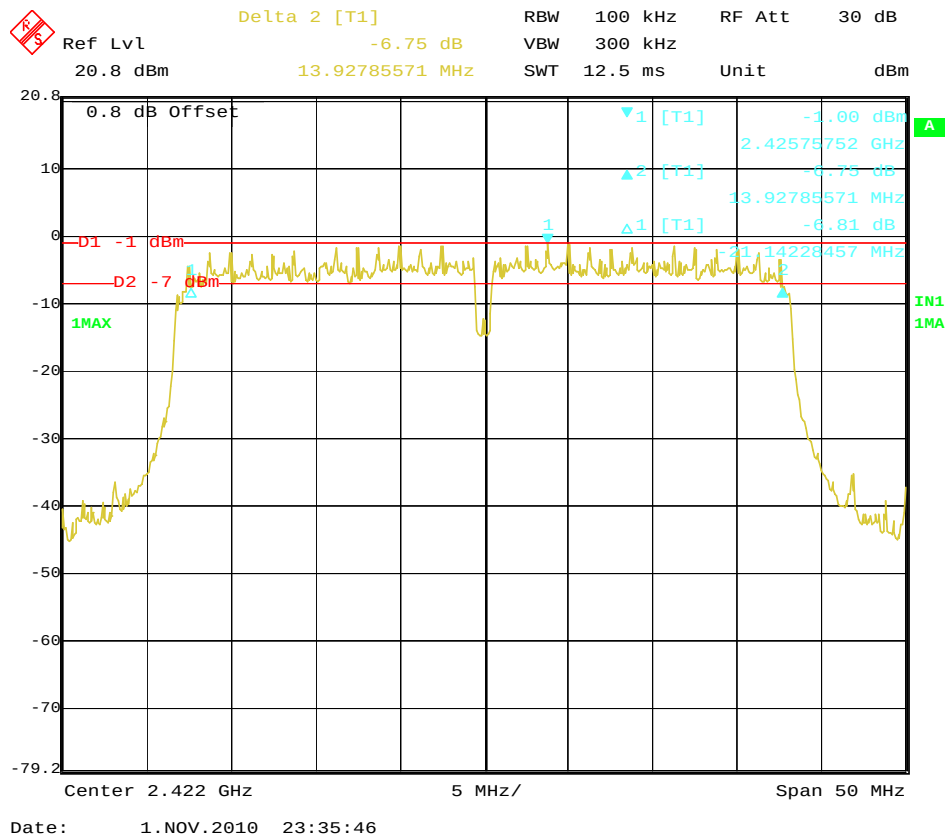


Channel 11 @ Antenna 2

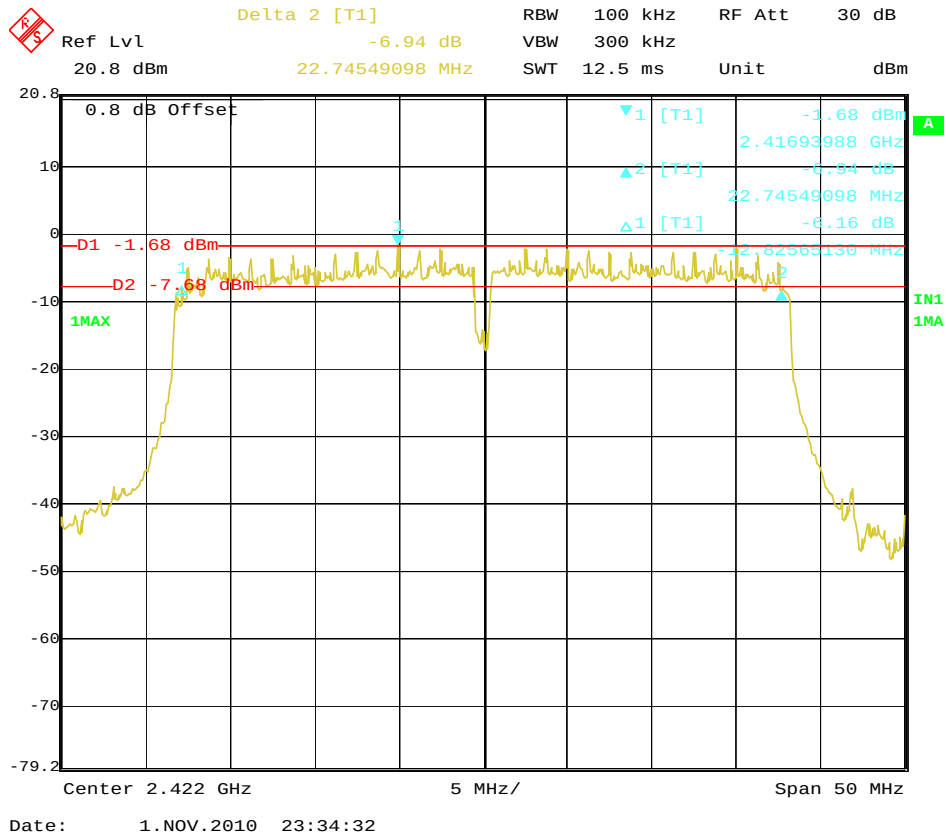


Note : For 802.11n (40MHz) Mode

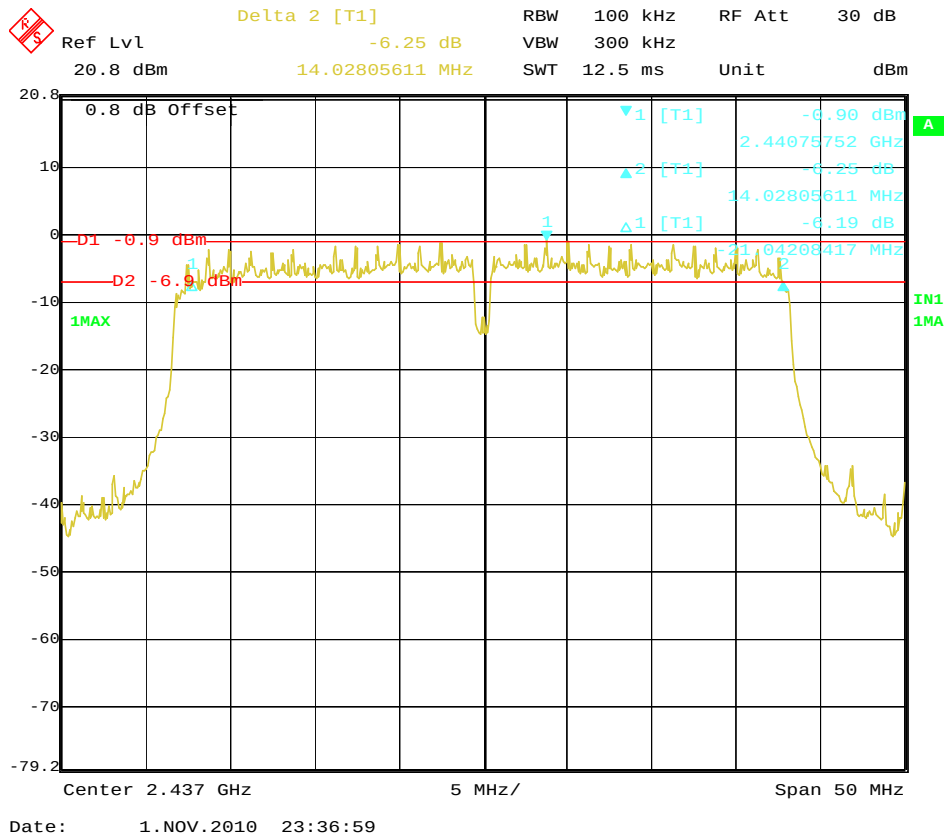
Channel 3 @ Antenna 1



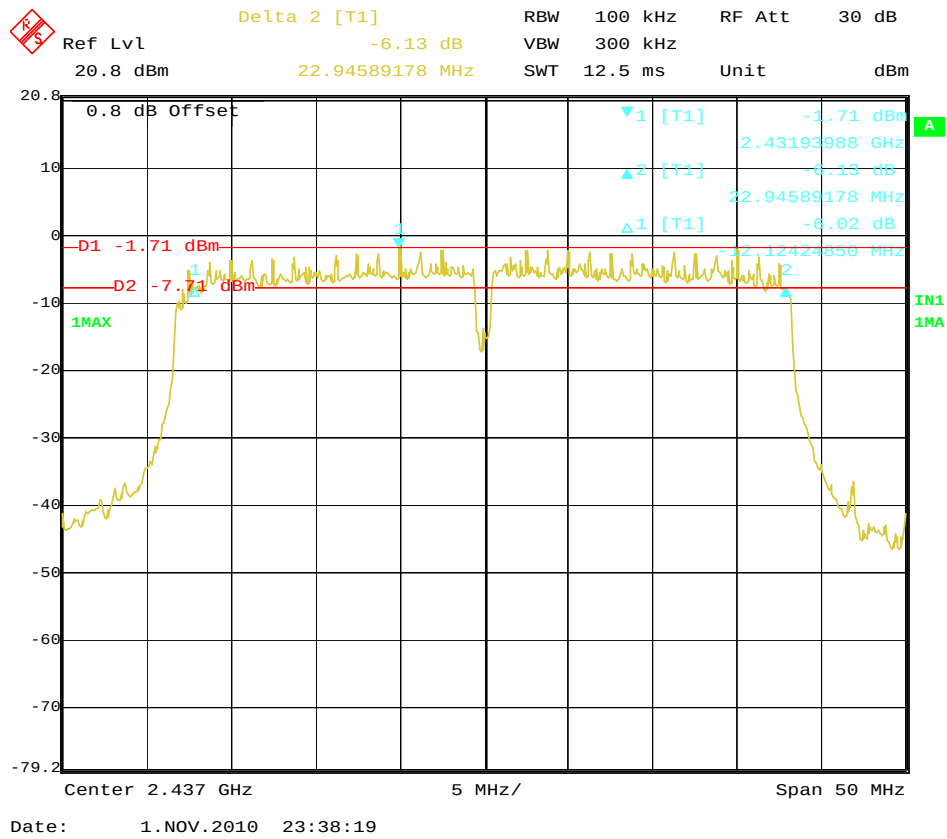
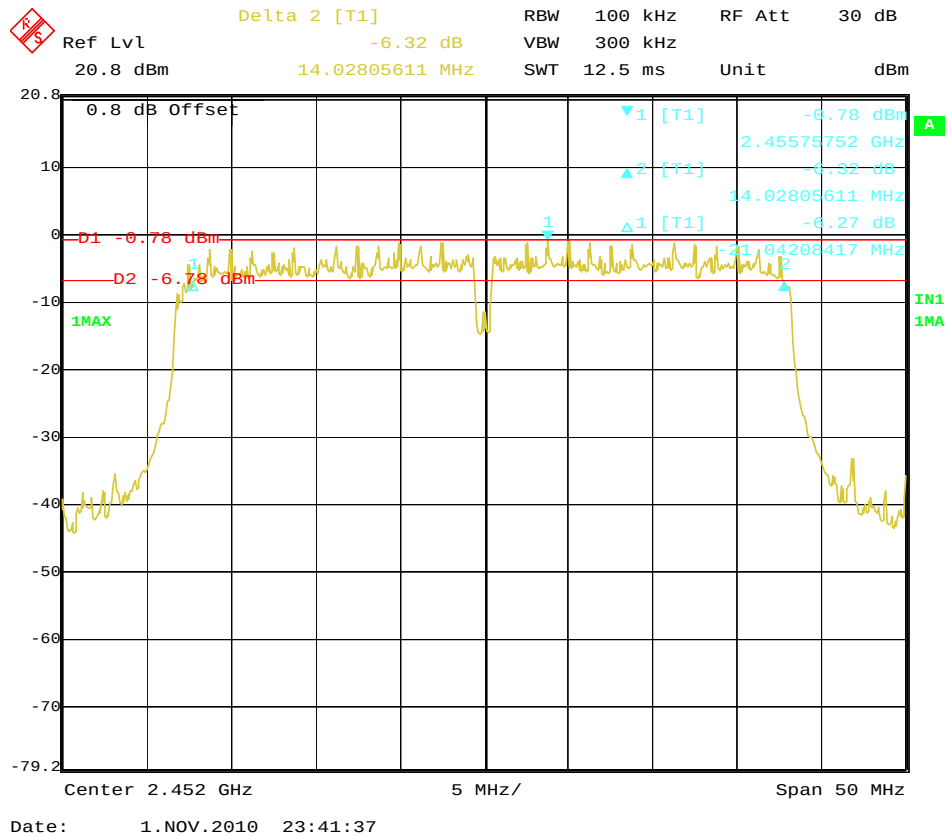
Channel 3 @ Antenna 2

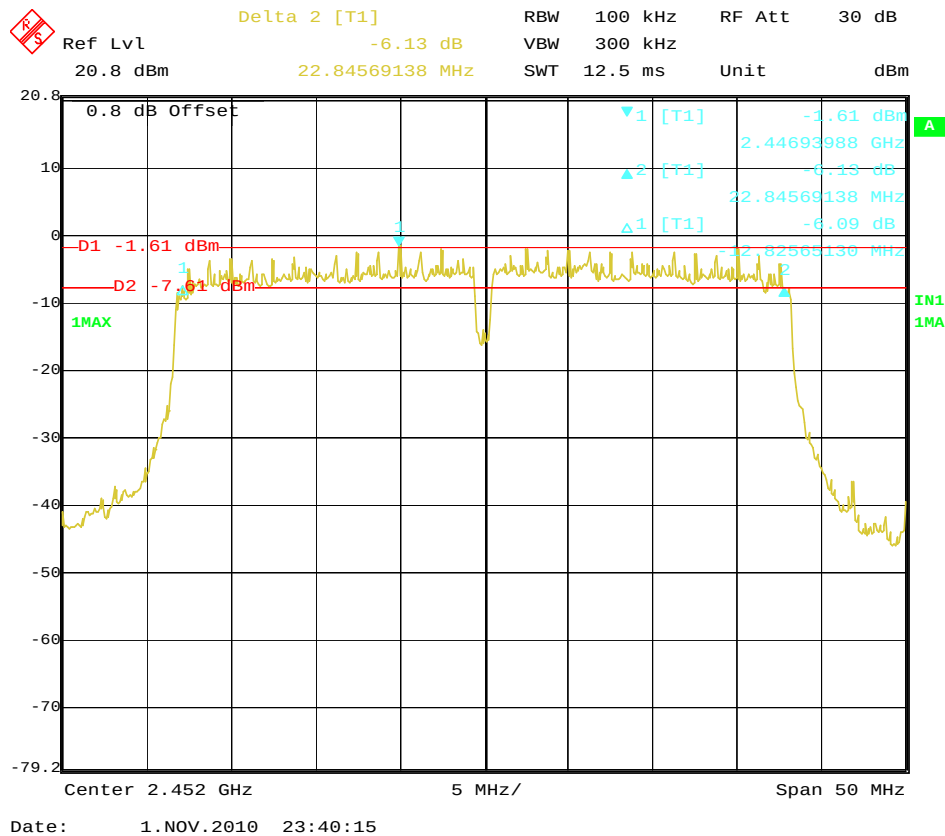


Channel 6 @ Antenna 1



Channel 6 @ Antenna 2

**Channel 9 @ Antenna 1****Channel 9 @ Antenna 2**



4.8. Antenna Requirement

Standard Applicable

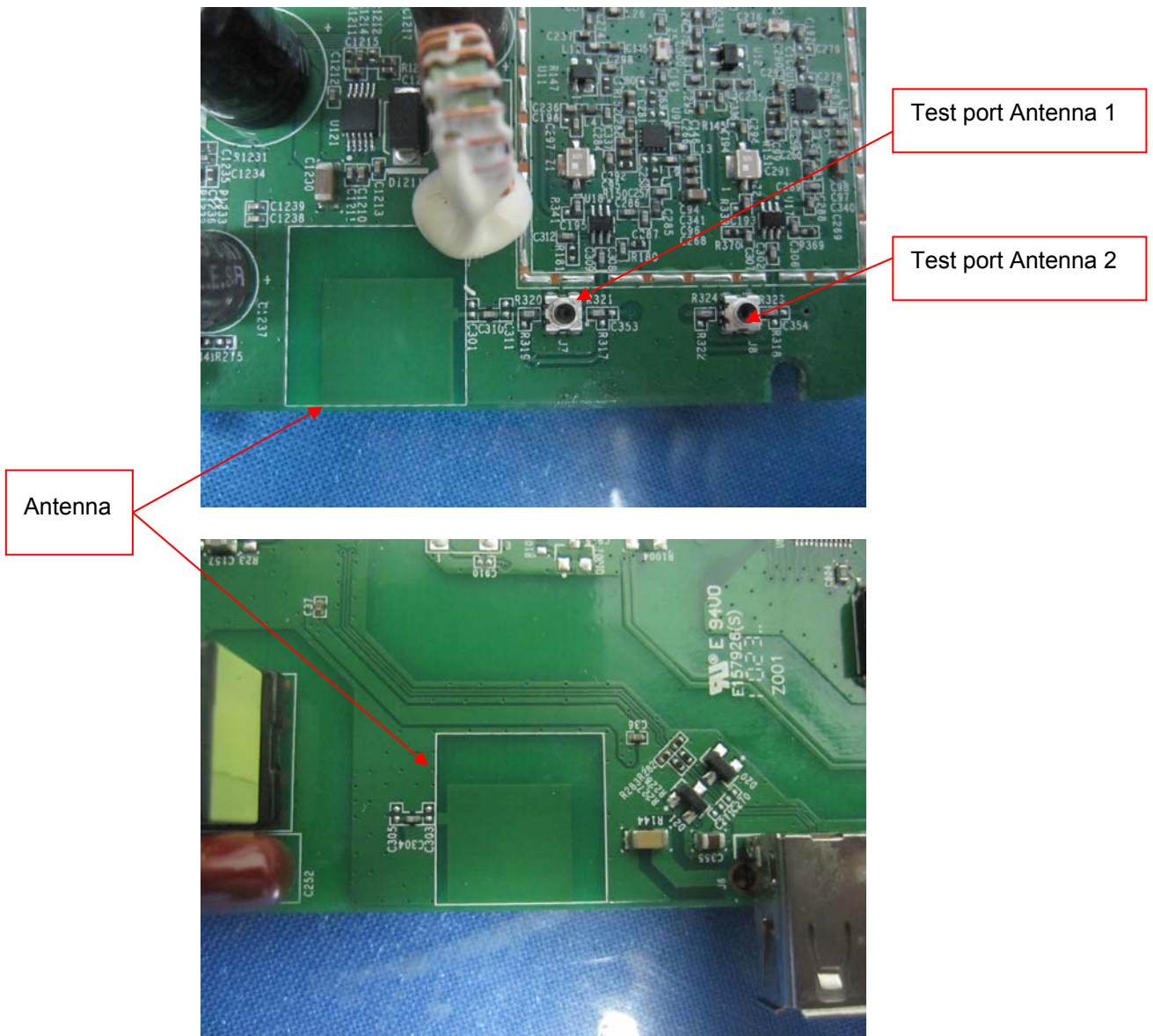
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (c), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

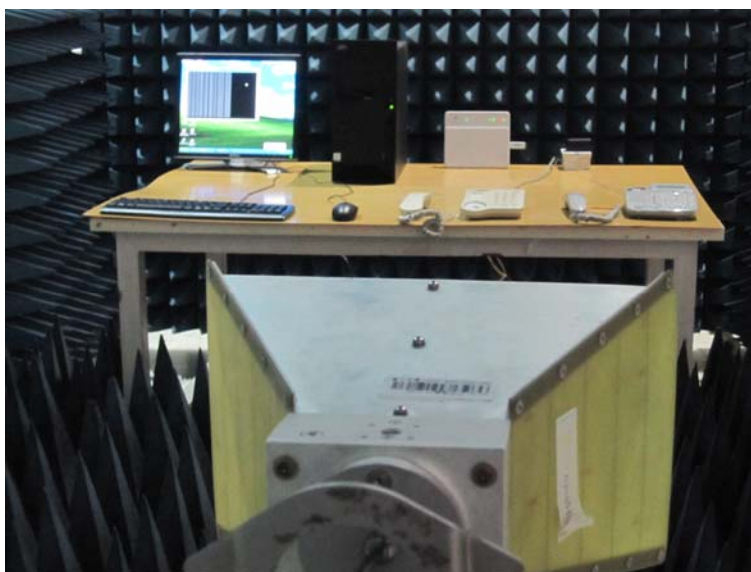
Antenna Connected Construction

The antenna used in this product is a PCB Antenna .The maximum Gain of the antenna is 2dBi.Please see the photos as following for detail:



5. Test Setup Photos of the EUT





6. External and Internal Photos of the EUT

External Photos

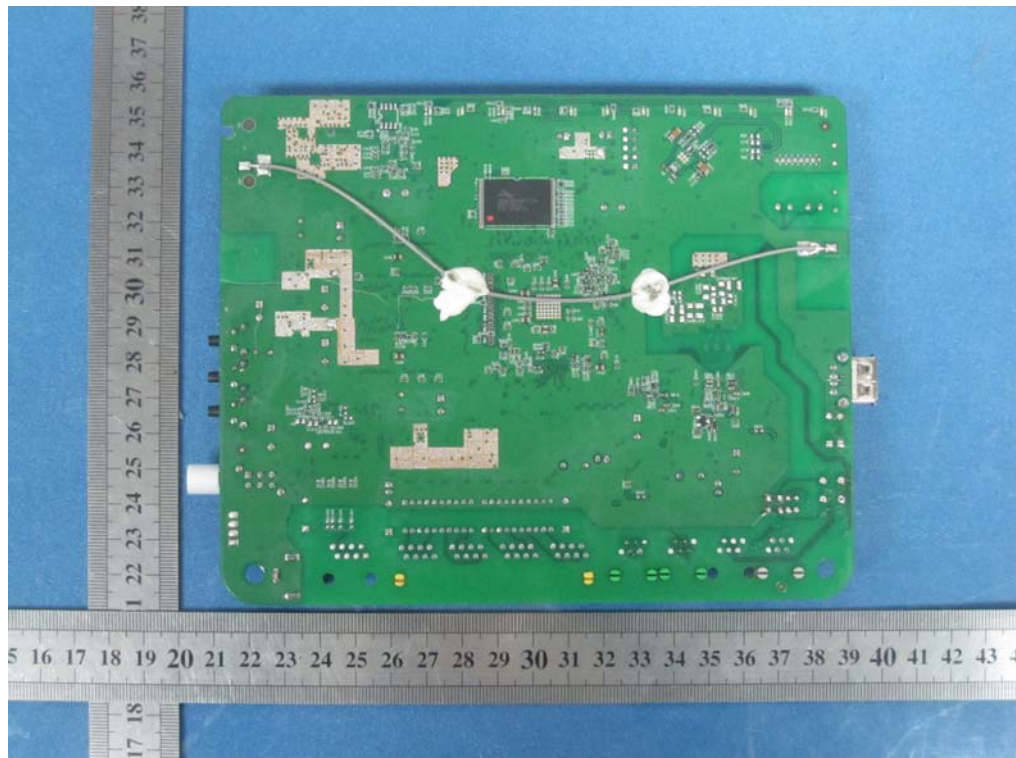


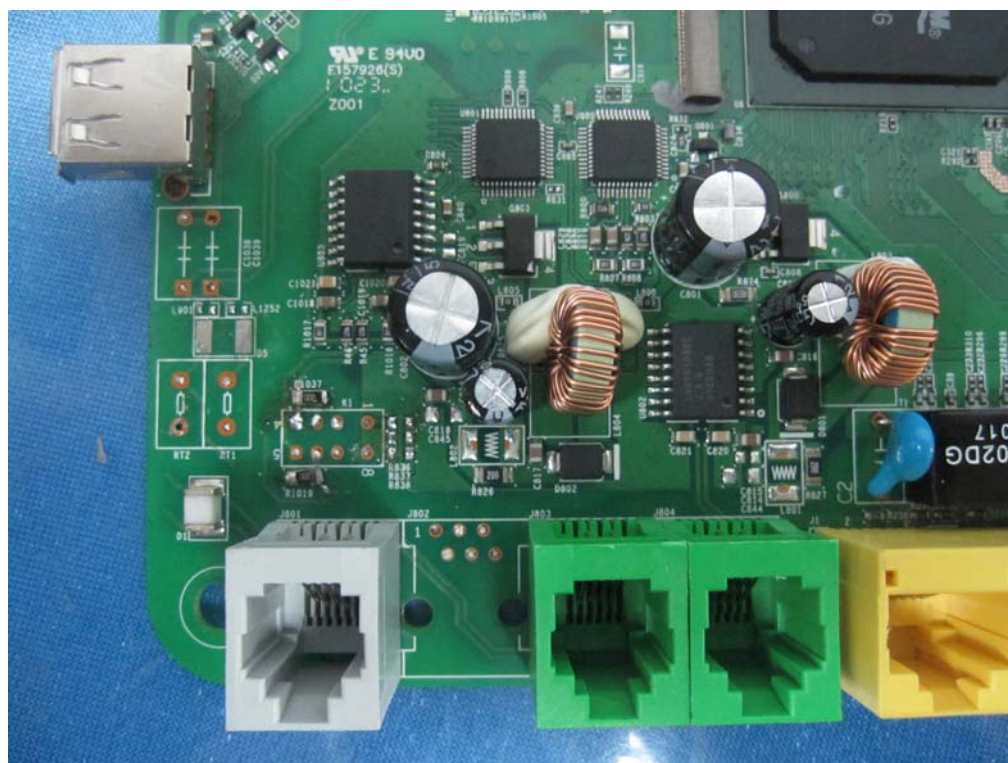
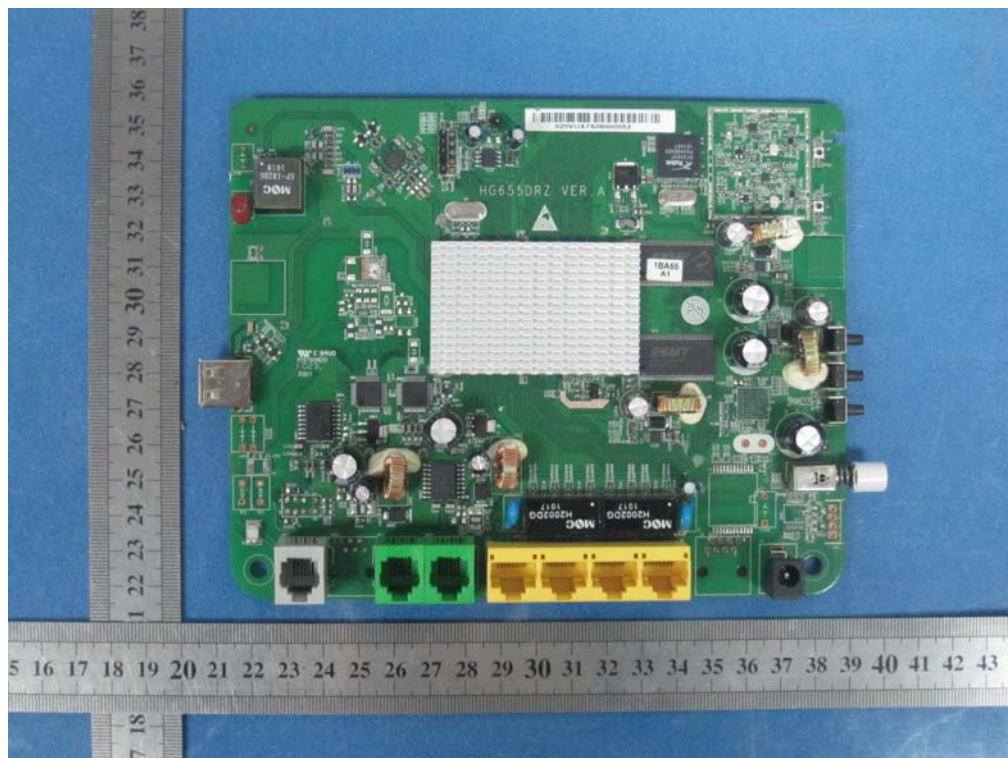


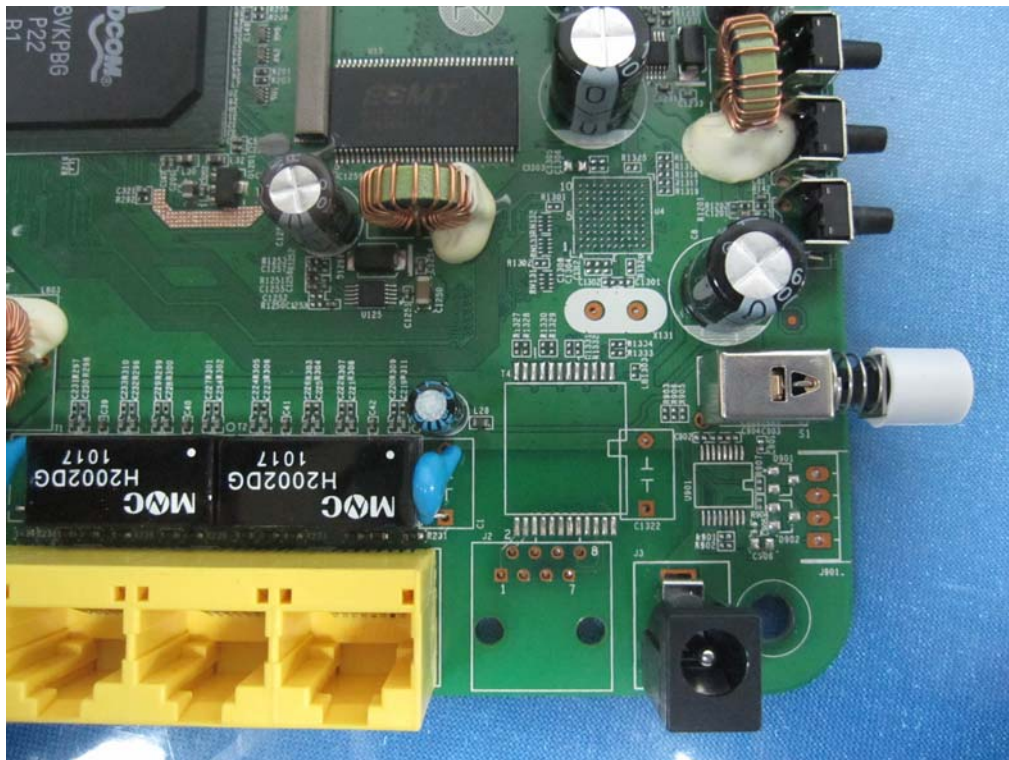


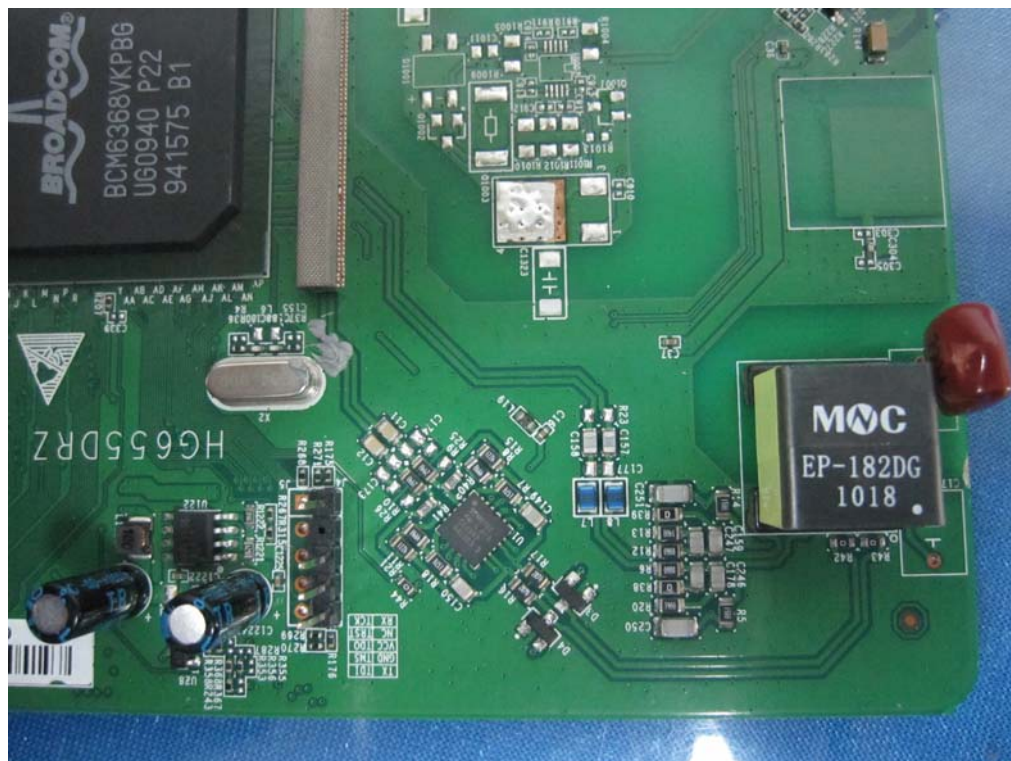
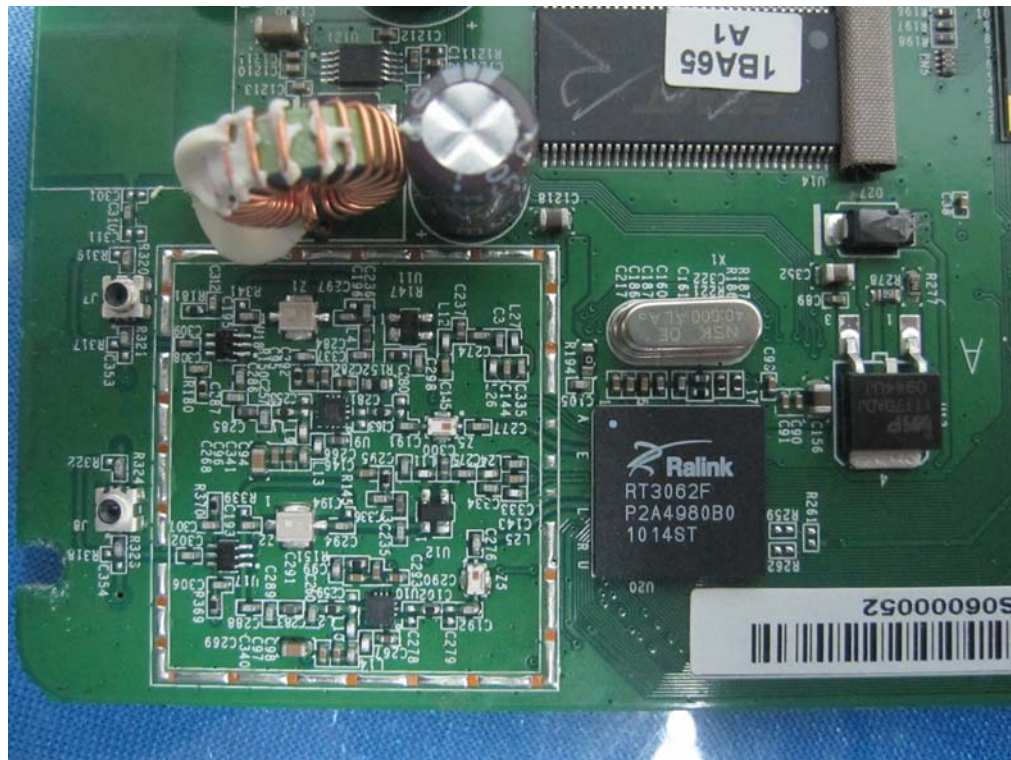


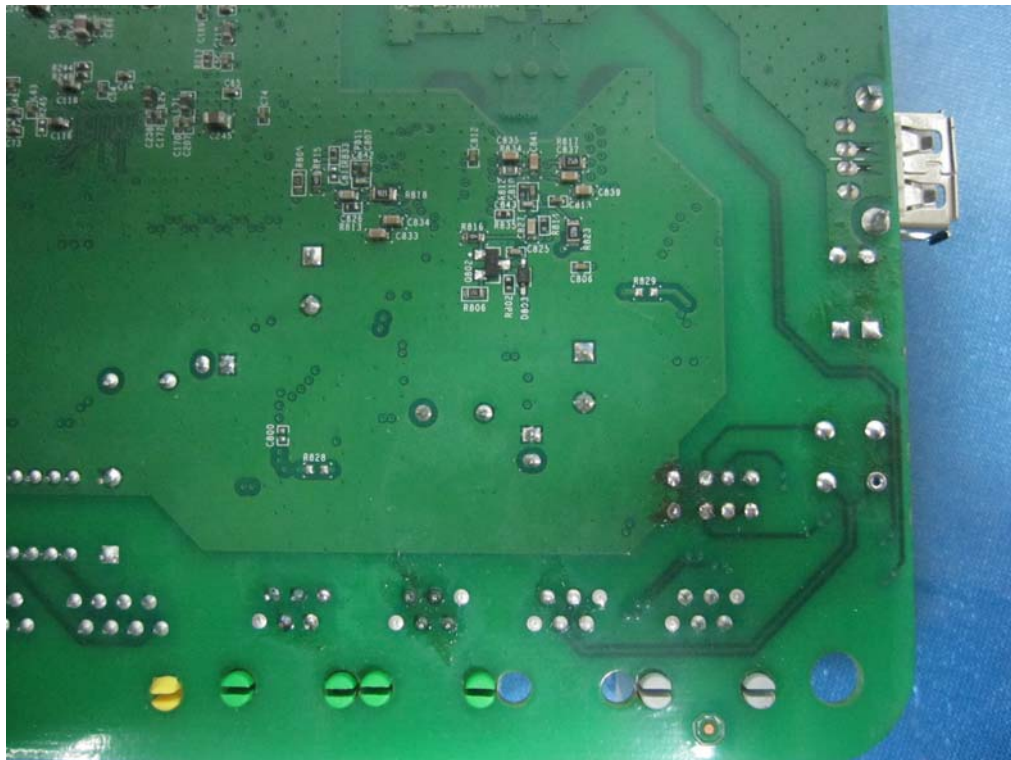


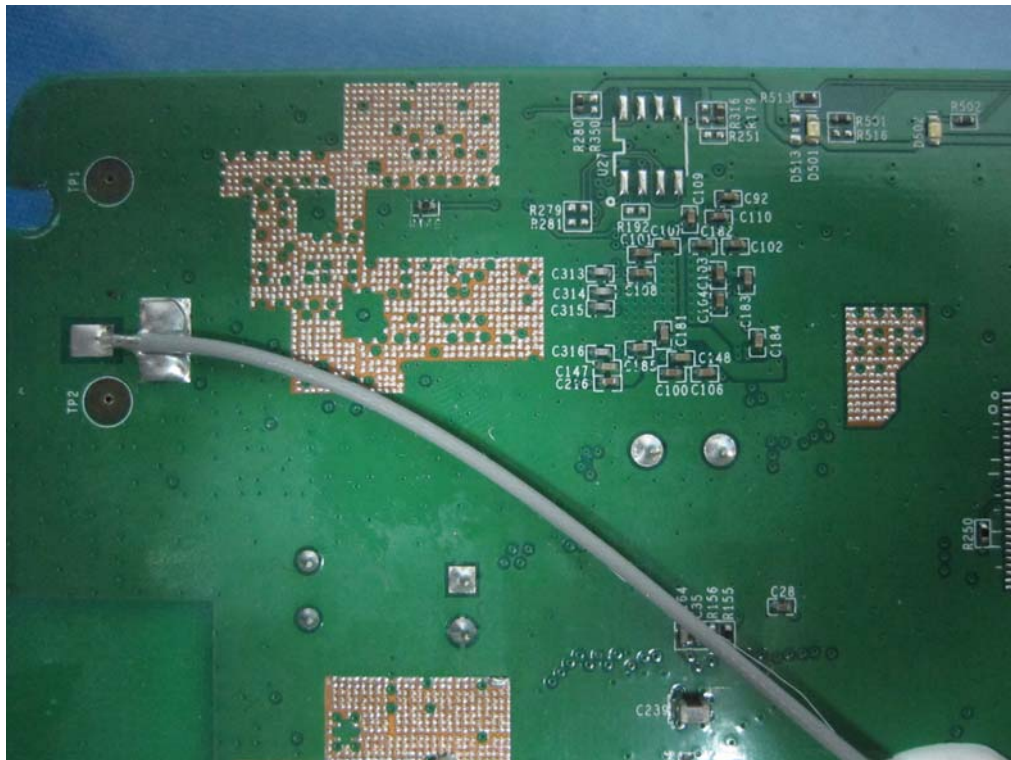
Internal Photos











Shenzhen Huatongwei International Inspection Co., Ltd