

TECHNICAL CONSULTING CO., LTD



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ISO/IEC17025Accredited Lab.

Report No:

FCC 1402006

File reference No:

2014-01-06

Applicant:

Dongguan Mingtel Digital Technology Co.,Ltd

Product:

MID

Model No:

A7XX(XX means 00~99)

Trademark:



Test Standards:

FCC Part 15 Subpart C, Paragraph 15.247

Test result:

It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4, FCC Part 15 Subpart C, Paragraph 15.247 regulations for the evaluation of electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated:

Jan 06, 2014

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD

5/F,Block 4, Anhua Industrial Zone.,No.8 TaiRan Rd.CheGongMiao,FuTian District, Shenzhen,CHINA.

Tel (755) 83448688

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Special Statement:

The testing quality ability of our laboratory meet with “Quality Law of People’s Republic of China” Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAL. This approval result is accepted by MRA of APLAC.

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

CNAL-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAL/AC01:2002 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:1999 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 899988

The 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 No.: 899988.

IC- Registration No.: IC5205A-02

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-02.

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Test Report Conclusion

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1.0 General Details

1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD
Address: 5/F,Block 4, Anhua Industrial Zone.,No.8 TaiRan Rd.CheGongMiao,FuTian District, Shenzhen,CHINA.
Telephone: (755) 83448688
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Site on File with the Federal Communications Commission – United States

Registration Number: 899988

For 3m & 10 m OATS

Site Listed with Industry Canada of Ottawa, Canada

Registration Number: IC: 5205A-02

For 3m & 10 m OATS

1.2 Applicant Details

Applicant: Dongguan Mingtel Digital Technology Co.,Ltd
Address: 1# West District, Hongying industrial Zone, Fenggang Town, Dongguan City, China
Telephone: --
Fax: --

1.3 Description of EUT

Product: MID
Manufacturer: Dongguan Mingtel Digital Technology Co.,Ltd
Address: 1# West District, Hongying industrial Zone, Fenggang Town, Dongguan City, China

Brand Name:



Additional Brand Name: N/A

Model Number: A7XX(XX means 00~99), the main test model is A727.

Additional Model Number: N/A

Type of Modulation IEEE 802.11b : DSSS (CCK, QPSK, DBPSK)

IEEE 802.11g/n (HT20/HT40) : OFDM(64QAM, 16QAM, QPSK, BPSK)

Frequency range IEEE 802.11b/g/n (HT20) : 2412-2462MHz;

IEEE 802.11n HT40 : 2422MHz-2452MHz

Channel Spacing IEEE 802.11b/g/n (HT20/HT40) : 5MHz

Air Data Rate IEEE 802.11b : 1-11Mbps

IEEE 802.11g : 6-54 Mbps

IEEE 802.11n HT20 : 6.5-72.2Mbps

IEEE 802.11n HT40 : 13.5-150Mbps

Frequency Selection By software

Channel Number IEEE 802.11b/g/n (HT20) : 11 Channels

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IEEE 802.11n HT40 : 7 Channels

Input Voltage: DC 3.7V by lithium battery charged by adapter.

Power Supply: Model No.: FYA05010US

Input: AC 100-240V 50/60Hz 0.6A; Output: DC 5V 2A

1.4 Submitted Sample: 2 Samples

1.5 Test Duration

2013-12-25 to 2014-01-05

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer

Terry Tang

The sample tested by _____

Print Name: Terry Tang

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Test Equipments					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	ROHDE&SCHWARZ	ESPI 3	100379	2013-08-23	2014-08-22
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100294	2013-08-23	2014-08-22
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100253	2013-08-23	2014-08-22
Ultra Broadband ANT	ROHDE&SCHWARZ	HL562	100157	2013-08-25	2014-08-24
ESDV Test Receiver	ROHDE&SCHWARZ	ESDV	100008	2013-08-23	2014-08-22
Impuls-Begrenzer	ROHDE&SCHWARZ	ESH3-Z2	100281	2013-08-24	2014-08-23
System Controller	CT	SC100	-	--	--
Printer	EPSON	PHOTO EX3	CFNH234850	--	--
Computer	IBM	8434	1S8434KCE99BLXL O*	-	-
Loop Antenna	EMCO	6502	00042960	2013-08-23	2014-08-22
ESPI Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2013-08-23	2014-08-22
3m OATS	--	--	N/A	2013-08-22	2014-08-21
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170265	2013-08-24	2014-08-23
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-631	2013-08-24	2014-08-23
Power meter	Anritsu	ML2487A	6K00003613	2013-08-24	2014-08-23
Power sensor	Anritsu	MA2491A	32263	2013-08-24	2014-08-23
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2013-08-24	2014-08-23
LISN	AFJ	LS16C	10010947251	2013-08-23	2014-08-22
LISN (Three Phase)	Schwarebeck	NSLK 8126	8126453	2013-08-23	2014-08-22
9*6*6 Anechoic	--	--	N/A	2013-08-22	2014-08-21
EMI Test Receiver	RS	ESCS30	100139	2013-08-23	2014-08-22
LISN	AFJ	LS16C	10010947251	2013-08-23	2014-08-22
LISN (Three Phase)	Schwarebeck	NSLK 8126	8126453	2013-08-23	2014-08-22

2.1 Auxiliary Equipment

Name	Model No.	Serial No.	Manufacturer	Cable	FCC ID/DOC
TF Card	--	--	Kingston	--	--
Passive Earphone	--	--	--	--	--

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3. DESCRIPTION OF TEST MODES

IEEE 802.11b, 802.11g, 802.11n (HT20) mode

The EUT had been tested under operating condition. There are three channels have been tested as following:

Channel	Frequency (MHz)
Low	2412
Middle	2437
High	2462

IEEE 802.11b mode: 1Mbps data rate (worst case) was chosen for full testing. IEEE 802.11g mode: 6Mbps data rate (worst case) was chosen for full testing. IEEE 802.11n (HT20) mode: 6.5Mbps data rate (worst case) were chosen for full testing

IEEE 802.11n HT40

The EUT had been tested under operating condition. There are three channels have been tested as following:

Channel	Frequency (MHz)
Low	2422
Mid	2437
High	2452

IEEE 802.11n HT40 mode: 13.5Mbps data rate (worst case) was chosen for full testing.

The worst-case data rates are determined according to the description above, based on the investigations by measuring the PSD and average power across all the data rates, bandwidths, modulations and spatial stream modes.

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:			
Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.107 & 15.207 & RSS-210 Issue 8	Conducted Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit & RSS-210 Issue 8	Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth>500kHz	PASS	Complies
FCC Part 15, Paragraph 15.247(b) & RSS-210 Issue 8	Maximum peak output power Limit: max. 30dBm	PASS	Complies
FCC Part 15, Paragraph 15.109,15.205 & 15.209 & RSS-210 Issue 8	Transmitter Radiated Emission Limit: Table 15.209	PASS	Complies
FCC Part 15, Paragraph 15.247(e) & RSS-210 Issue 8	Power Spectral Density Limit: max. 8dBm	PASS	Complies
FCC Part 15, Paragraph 15.247(d) & RSS-210 Issue 8	Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit: Table 15.209	PASS	Complies

3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247 & RSS-210 Issue 8

4.0 EUT Modification

No modification by Shenzhen Timeway Technology Consulting Co., Ltd

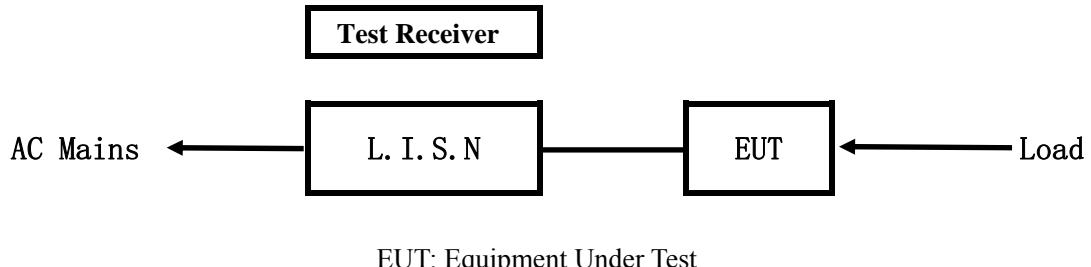
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5. Power Line Conducted Emission Test

5.1 Schematics of the test

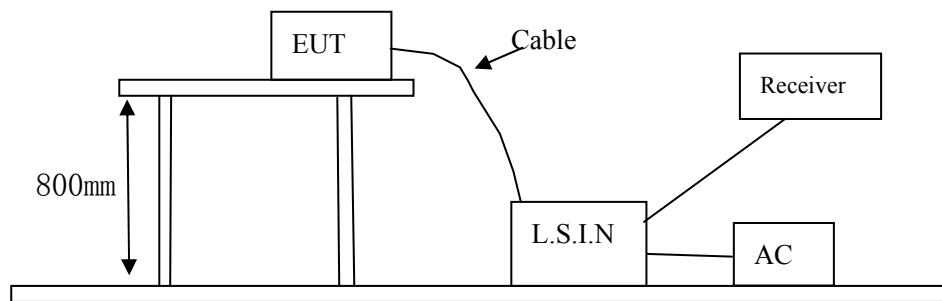


5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2003.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2003. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

Device	Manufacturer	Model	FCC
MID	Dongguan Mingtel Digital Technology Co.,Ltd	A7XX(XX means 00~99)	2ABKRA727

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B. Internal Device

Device	Manufacturer	Model	Rating

C. Peripherals

Device	Manufacturer	Model	Rating
--	--	--	--

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2003.

A Setup the EUT and simulators as shown on follow
B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207 and 15.107

Frequency (MHz)	Class A Limits (dB μ V)		Class B Limits (dB μ V)	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ~ 0.50	79.0	66.0	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	73.0	60.0	56.0	46.0
5.00 ~ 30.00	73.0	60.0	60.0	50.0

Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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A: Conducted Emission on Live Terminal (150kHz to 30MHz)

EUT Operating Environment

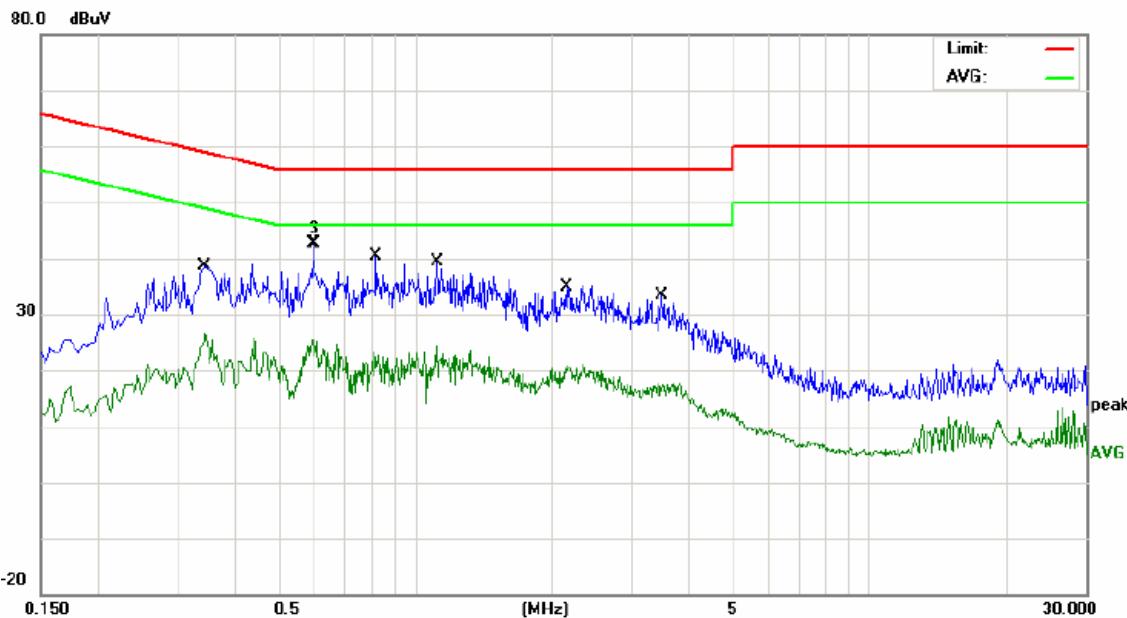
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Charging and Keep Transmitting

Equipment Level: Class B

Results: PASS

Please refer to following diagram for individual



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over
			Level	Factor	ment		
		MHz	dBuV	dB	dBuV	dB	Detector
1		0.3460	27.94	10.58	38.52	59.06	-20.54
2		0.3460	16.02	10.58	26.60	49.06	-22.46
3	*	0.5980	31.83	10.69	42.52	56.00	-13.48
4		0.5980	14.66	10.69	25.35	46.00	-20.65
5		0.8260	29.69	10.62	40.31	56.00	-15.69
6		0.8260	11.67	10.62	22.29	46.00	-23.71
7		1.1220	28.70	10.75	39.45	56.00	-16.55
8		1.1220	13.66	10.75	24.41	46.00	-21.59
9		2.1660	24.23	10.71	34.94	56.00	-21.06
10		2.1660	9.41	10.71	20.12	46.00	-25.88
11		3.4940	22.70	10.66	33.36	56.00	-22.64
12		3.4940	5.97	10.66	16.63	46.00	-29.37

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

EUT Operating Environment

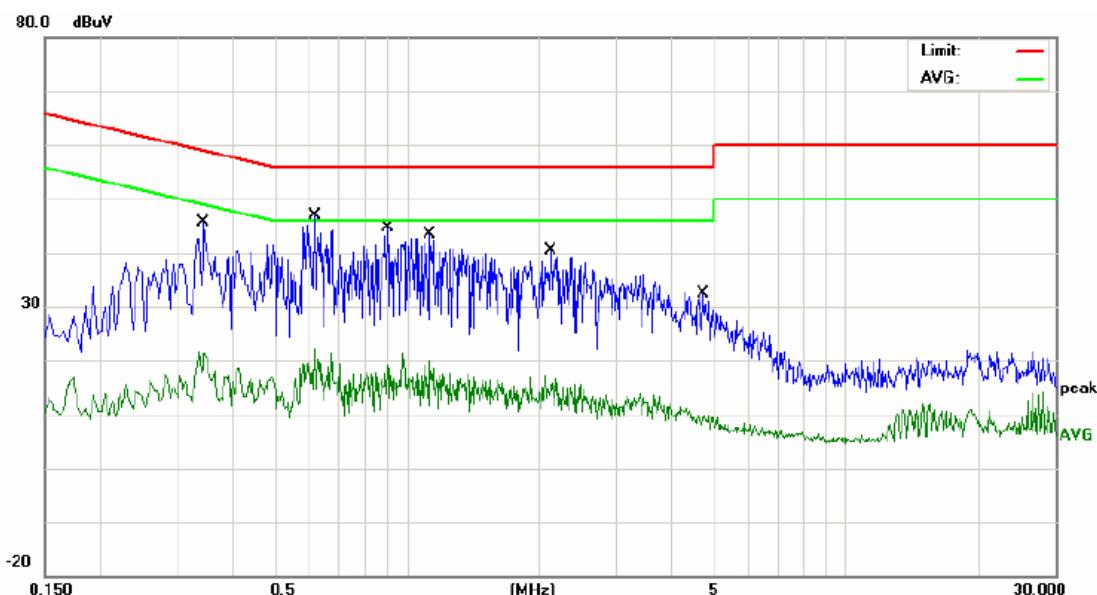
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Charging and Keep Transmitting

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over
			Level	Factor	ment		
		MHz	dBuV	dB	dBuV	dB	Detector
1		0.3460	34.96	10.58	45.54	59.06	-13.52
2		0.3460	10.85	10.58	21.43	49.06	-27.63
3	*	0.6180	36.10	10.74	46.84	56.00	-9.16
4		0.6180	11.29	10.74	22.03	46.00	-23.97
5		0.9060	33.65	10.94	44.59	56.00	-11.41
6		0.9060	8.18	10.94	19.12	46.00	-26.88
7		1.1300	32.57	10.75	43.32	56.00	-12.68
8		1.1300	9.18	10.75	19.93	46.00	-26.07
9		2.1420	29.79	10.71	40.50	56.00	-15.50
10		2.1420	4.82	10.71	15.53	46.00	-30.47
11		4.7380	21.68	10.61	32.29	56.00	-23.71
12		4.7380	-1.48	10.61	9.13	46.00	-36.87

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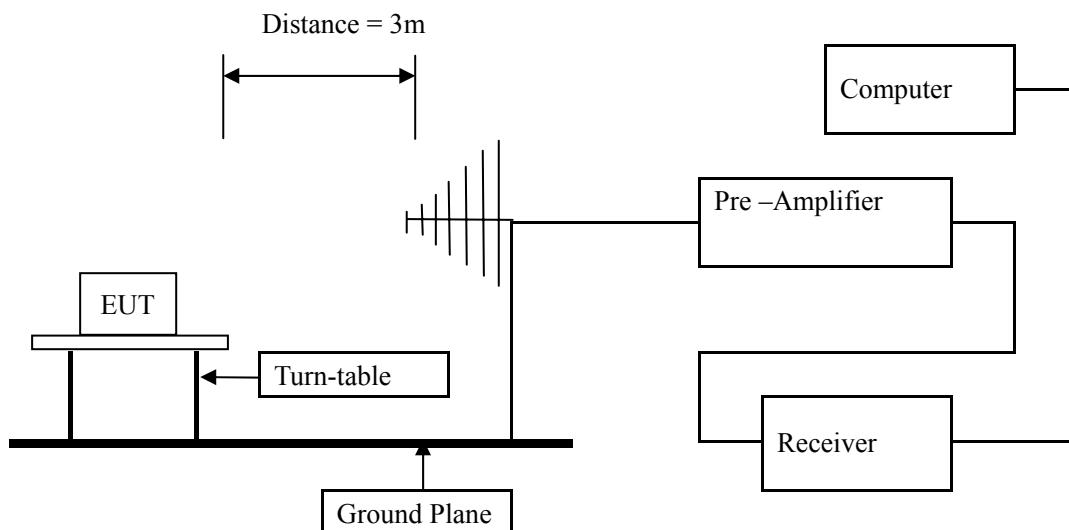
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6 Radiated Emission Test

6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.4 –2003. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.4-2003.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a “QP” in the data table.
- (6) The antenna polarization : Vertical polarization and Horizontal polarization.

Block diagram of Test setup



6.2 Configuration of The EUT

Same as section 5.3 of this report

6.3 EUT Operating Condition

Same as section 5.4 of this report.

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6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

Frequencies in restricted band are complied to limit on Paragraph 15.209 and 15.109

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

1. RF Voltage (dBuV) = $20 \log_{10} \text{RF Voltage (uV)}$
2. In the Above Table, the higher limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
4. This is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.
5. For radiated emission from 9kHz to 30MHz, the measurements were greater than 20dB below the limit

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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal / Vertical: (30MHz----1000MHz)

EUT set Condition: **Keep Transmitting**

Results: **Pass**

Test Figure:



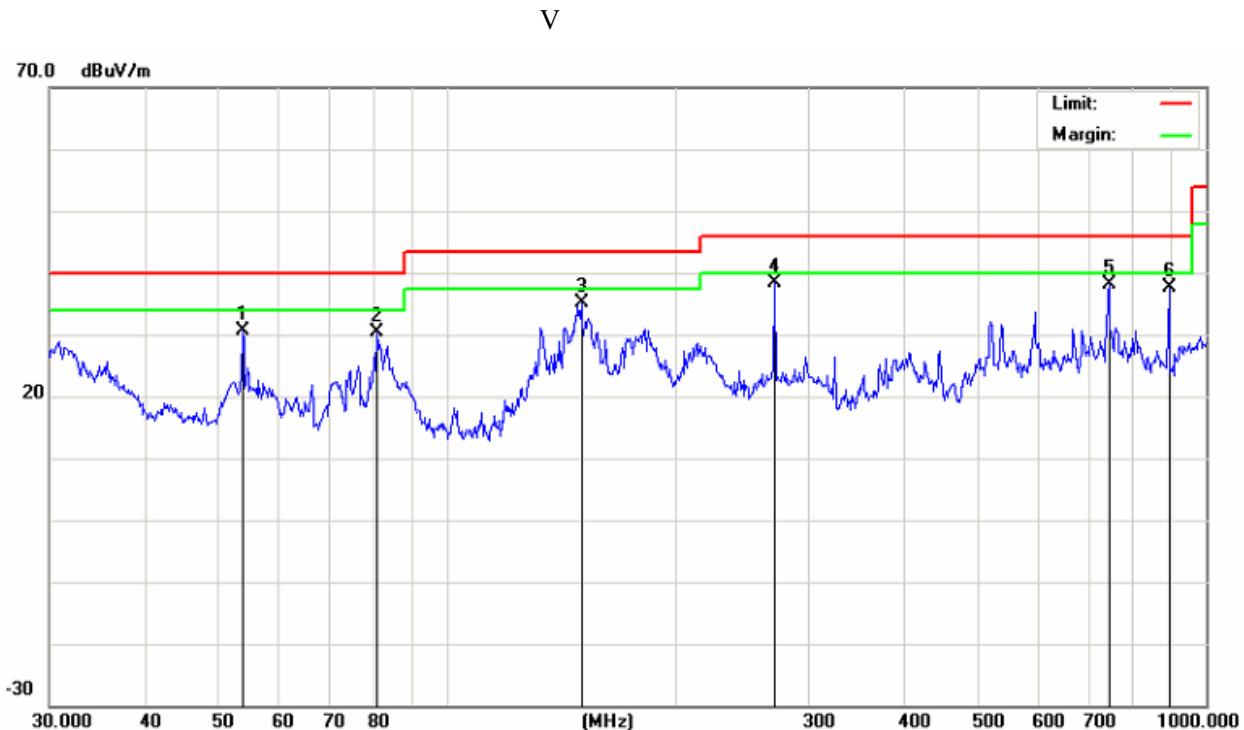
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Antenna Height	Table Degree	Comment	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
6		893.8567	35.11	3.58	38.69	47.00	-8.31	peak			
1		53.8817	37.11	-11.08	26.03	40.00	-13.97	peak			
2		216.0240	40.28	-6.36	33.92	46.00	-12.08	peak			
3		243.3771	44.06	-6.45	37.61	46.00	-8.39	peak			
4		270.3747	41.58	-4.33	37.25	46.00	-8.75	peak			
5	*	742.2586	34.98	3.18	38.16	46.00	-7.84	peak			
6		893.8567	33.33	3.58	36.91	46.00	-9.09	peak			

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Test Figure:



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table		
			Level	Factor	ment					Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	
6		893.8567	33.33	3.58	36.91	46.00	-9.09	peak			
1		53.8817	41.50	-10.85	30.65	40.00	-9.35	peak			
2		80.9274	42.77	-12.36	30.41	40.00	-9.59	peak			
3		150.5378	39.12	-4.00	35.12	43.50	-8.38	peak			
4	*	270.3747	41.67	-3.37	38.30	46.00	-7.70	peak			
5		744.8660	34.18	4.07	38.25	46.00	-7.75	peak			
6		893.8567	34.11	3.58	37.69	46.00	-8.31	peak			

Note: Result the worst case in this part.

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Above 1GHz:

Operation Mode:	802.11b TX (Channel 1)	Test Date :	Jan.3, 2014
Frequency Range:	Above 1GHz	Temperature :	28°C
Test Result:	PASS	Humidity :	65 %
Measured Distance:	3m	Test By:	
Data Rate:	1Mbps		

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4824.78	V	59.65	46.11	74	54	-14.35	-7.89
9648.34	V	57.35	45.13	74	54	-16.65	-9.87
4824.16	H	55.06	48.3	74	54	-18.94	-5.7
7236.38	H	55.65	45.79	74	54	-18.35	-8.21

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Note: (1) All Readings are Peak Value and AV.
(2) Emission Level= Reading Level+Probe Factor +Cable Loss.
(3) 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.

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Operation Mode: 802.11b TX (Channel 6) Test Date : Jan.3, 2014
Frequency Range: Above 1GHz Temperature : 28°C
Test Result: PASS Humidity : 65 %
Measured Distance: 3m Test By: LHZ
Data Rate: 1Mbps

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4874.97	V	55.64	45.04	74	54	-18.36	-8.96
7311.77	V	56.35	42.35	74	54	-17.65	-11.65
4874.34	H	54.39	48.3	74	54	-19.61	-5.7

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Note: (1) All Readings are Peak Value and AV.
(2) Emission Level= Reading Level+Probe Factor +Cable Loss.
(3) 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.

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Operation Mode: 802.11b TX (Channel 11) Test Date : Jan.3, 2014
Frequency Range: Above 1GHz Temperature : 28°C
Test Result: PASS Humidity : 65 %
Measured Distance: 3m Test By:
Data Rate: 1Mbps

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4924.78	V	59.35	48.88	74	54	-14.65	-5.12
9848.35	V	56.79	46.88	74	54	-17.21	-7.12
4925.71	H	55.89	47.03	74	54	-18.11	-6.97
9849.88	H	54.97	43.66	74	54	-19.03	-10.34

No others harmonics emissions are higher than 20dB below the limits of 47 CFR Part 15.247.

Note: (1) All Readings are Peak Value and AV.

(2) Emission Level= Reading Level+Probe Factor +Cable Loss.

(3) 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.

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Operation Mode: 802.11g TX (Channel 1) Test Date : Jan.3, 2014
Frequency Range: Above 1GHz Temperature : 28°C
Test Result: PASS Humidity : 65 %
Measured Distance: 3m Test By:
Data Rate: 6Mbps

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4823.51	V	57.28	44.88	74	54	-16.72	-9.12
7237.23	V	58.64	43.88	74	54	-15.36	-10.12
9649.87	V	54.64	44.22	74	54	-19.36	-9.78
4825.46	H	58.76	48.68	74	54	-15.24	-5.32
7237.32	H	55.01	47.09	74	54	-18.99	-6.91

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Note: (1) All Readings are Peak Value and AV.
(2) Emission Level= Reading Level+Probe Factor +Cable Loss.
(3) 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.

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Operation Mode: 802.11g TX (Channel 6) Test Date : Jan.3, 2014
Frequency Range: Above 1GHz Temperature : 28°C
Test Result: PASS Humidity : 65 %
Measured Distance: 3m Test By: LHZ
Data Rate: 6Mbps

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4872.41	V	55.68	47.88	74	54	-18.32	-6.12
7313.12	V	57.22	48.29	74	54	-16.78	-5.71
9746.56	V	57.23	45.79	74	54	-16.77	-8.21
4871.32	H	58.68	47.69	74	54	-15.32	-6.31
7316.45	H	59.25	47.55	74	54	-14.75	-6.45

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Note: (1) All Readings are Peak Value and AV.
(2) Emission Level= Reading Level+Probe Factor +Cable Loss.
(3) 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.

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Operation Mode: 802.11g TX (Channel 11) Test Date : Jan.3, 2014
Frequency Range: Above 1GHz Temperature : 28°C
Test Result: PASS Humidity : 65 %
Measured Distance: 3m Test By: LHZ
Data Rate: 6Mbps

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4922.31	V	55.88	46.88	74	54	-18.12	-7.12
9846.45	V	56.69	46.59	74	54	-17.31	-7.41
4923.31	H	54.9	46.35	74	54	-19.1	-7.65
9847.12	H	57.7	42.68	74	54	-17.3	-11.32

No others harmonics emissions are higher than 20dB below the limits of 47 CFR Part 15.247.

Note: (1) All Readings are Peak Value and AV.

(2) Emission Level= Reading Level+Probe Factor +Cable Loss.

(3) Data of measurement within this frequency range shown “--” in the table above means the

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Operation Mode: 802.11n(20) TX (Channel 1) Test Date : Jan.3, 2014
Frequency Range: Above 1GHz Temperature : 28°C
Test Result: PASS Humidity : 65 %
Measured Distance: 3m Test By:
Data Rate: 6.5Mbps

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4821.32	V	56.65	43.88	74	54	-17.35	-10.12
7232.12	V	55.79	42.77	74	54	-18.21	-11.23
4822.11	H	56.66	47.22	74	54	-17.34	-6.78
7235.13	H	54.69	46.61	74	54	-19.31	-7.39

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Note:

- (1) All Readings are Peak Value and AV.
- (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
- (3) 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.

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Operation Mode: 802.11n(20) TX (Channel 6) Test Date : Jan.3, 2014
Frequency Range: Above 1GHz Temperature : 28°C
Test Result: PASS Humidity : 65 %
Measured Distance: 3m Test By: LHZ
Data Rate: 6.5Mbps

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4881.21	V	57.87	45.88	74	54	-16.13	-8.12
7317.63	V	55.59	47.29	74	54	-18.41	-6.71
9745.13	V	56.66	44.85	74	54	-17.34	-9.15
4872.31	H	57.03	45.87	74	54	-16.97	-8.13
7313.11	H	55.29	45.69	74	54	-18.71	-8.31

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Note: (1) All Readings are Peak Value and AV.

(2) Emission Level= Reading Level+Probe Factor +Cable Loss.

(3) Data of measurement within this frequency range shown “ -- ” in the table above means the

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Operation Mode: 802.11n(20) TX (Channel 11) Test Date : Jan.3, 2014
Frequency Range: Above 1GHz Temperature : 28°C
Test Result: PASS Humidity : 65 %
Measured Distance: 3m Test By:
Data Rate: 6.5Mbps

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4921.63	V	55.9	44.69	74	54	-18.1	-9.31
9846.93	V	56.87	45.77	74	54	-17.13	-8.23
4926.12	H	57.7	44.88	74	54	-16.3	-9.12
9853.12	H	57.96	47.79	74	54	-16.04	-6.21

No others harmonics emissions are higher than 20dB below the limits of 47 CFR Part 15.247.

Note: (1) All Readings are Peak Value and AV.
(2) Emission Level= Reading Level+Probe Factor +Cable Loss.
(3) 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.

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Operation Mode: 802.11n(40) TX (Channel 1) Test Date : Jan.3, 2014
Frequency Range: Above 1GHz Temperature : 28°C
Test Result: PASS Humidity : 65 %
Measured Distance: 3m Test By:
Data Rate: 13.5Mbps

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4843.95	V	57.16	40.05	74	54	-16.84	-13.95
7268.31	V	58.36	43.79	74	54	-15.64	-10.21
4842.61	H	57.09	41.69	74	54	-16.91	-12.31
7267.81	H	56.36	42.35	74	54	-17.64	-11.65

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Note: (1) All Readings are Peak Value and AV.
(2) Emission Level= Reading Level+Probe Factor +Cable Loss.
(3) 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.

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Operation Mode: 802.11n(40) TX (Channel 4) Test Date : Jan.3, 2014
Frequency Range: Above 1GHz Temperature : 28°C
Test Result: PASS Humidity : 65 %
Measured Distance: 3m Test By: LHZ
Data Rate: 13.5Mbps

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4873.91	V	57.63	42.38	74	54	-16.37	-11.62
7315.14	V	55.69	41.69	74	54	-18.31	-12.31
4873.14	H	59.31	43.62	74	54	-14.69	-10.38
7314.15	H	56.04	40.48	74	54	-17.96	-13.52

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Note: (1) All Readings are Peak Value and AV.
(2) Emission Level= Reading Level+Probe Factor +Cable Loss.
(3) 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.

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Operation Mode: 802.11n(40) TX (Channel 7) Test Date : Jan.3, 2014
Frequency Range: Above 1GHz Temperature : 28°C
Test Result: PASS Humidity : 65 %
Measured Distance: 3m Test By:
Data Rate: 13.5Mbps

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4923.95	V	55.66	40.35	74	54	-18.34	-13.65
7385.14	V	57.05	41.36	74	54	-16.95	-12.64
4926.12	H	56.57	40.03	74	54	-17.43	-13.97
7387.31	H	57.15	39.68	74	54	-16.85	-14.32

No others harmonics emissions are higher than 20dB below the limits of 47 CFR Part 15.247.

Note: (1) All Readings are Peak Value and AV.
(2) Emission Level= Reading Level+Probe Factor +Cable Loss.
(3) 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.

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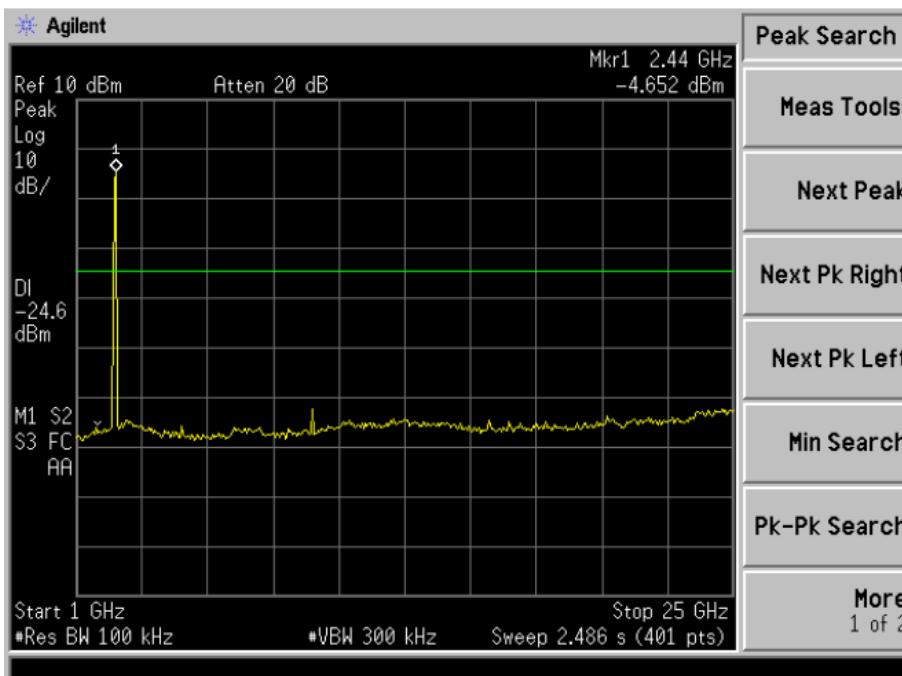
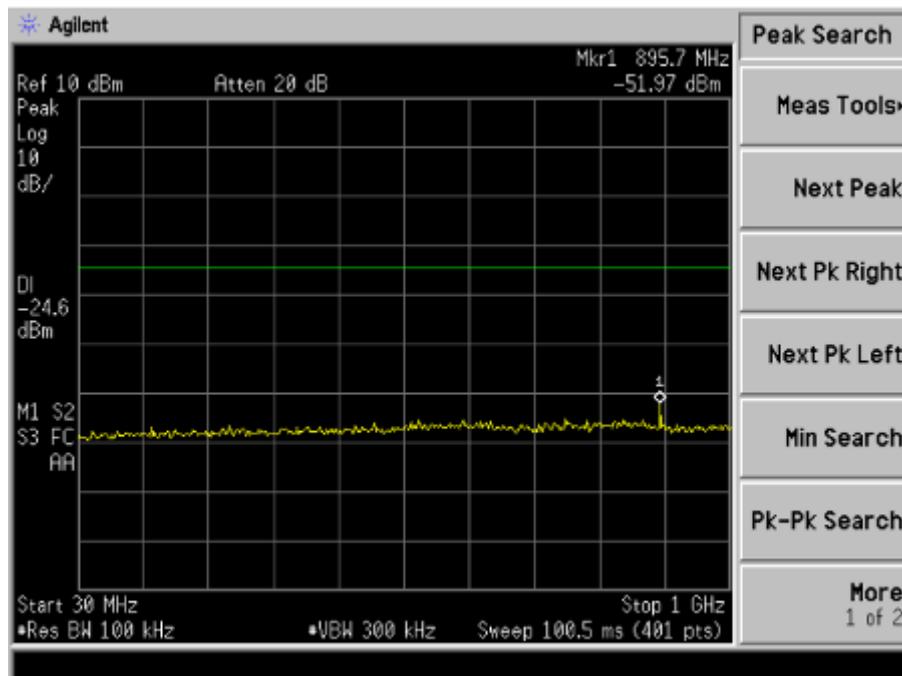
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Antenna port conducted spurious emissions

802.11b 1Mbps mode:

Low channel

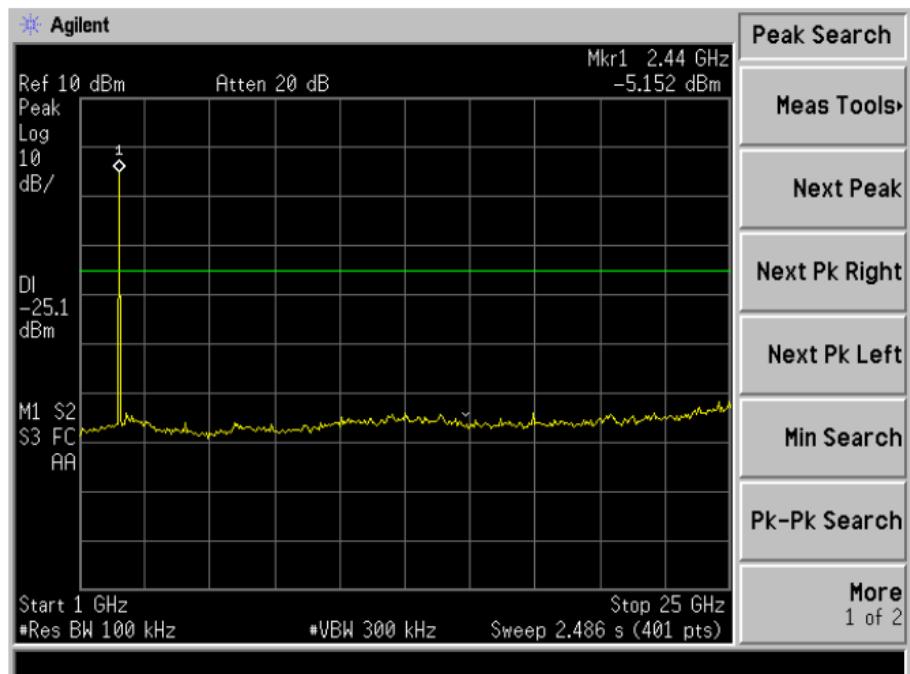
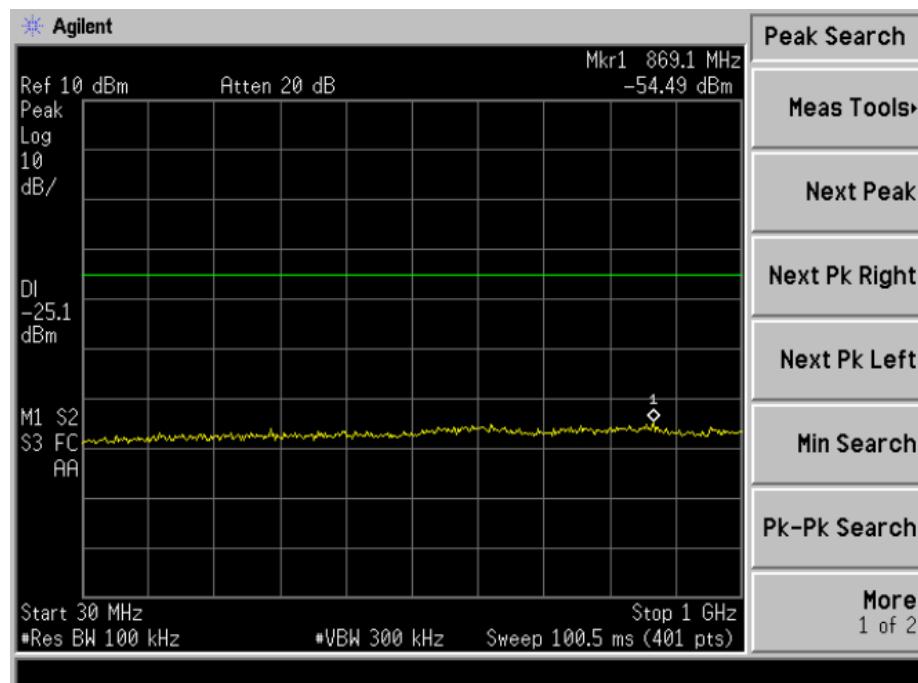


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Middle channel

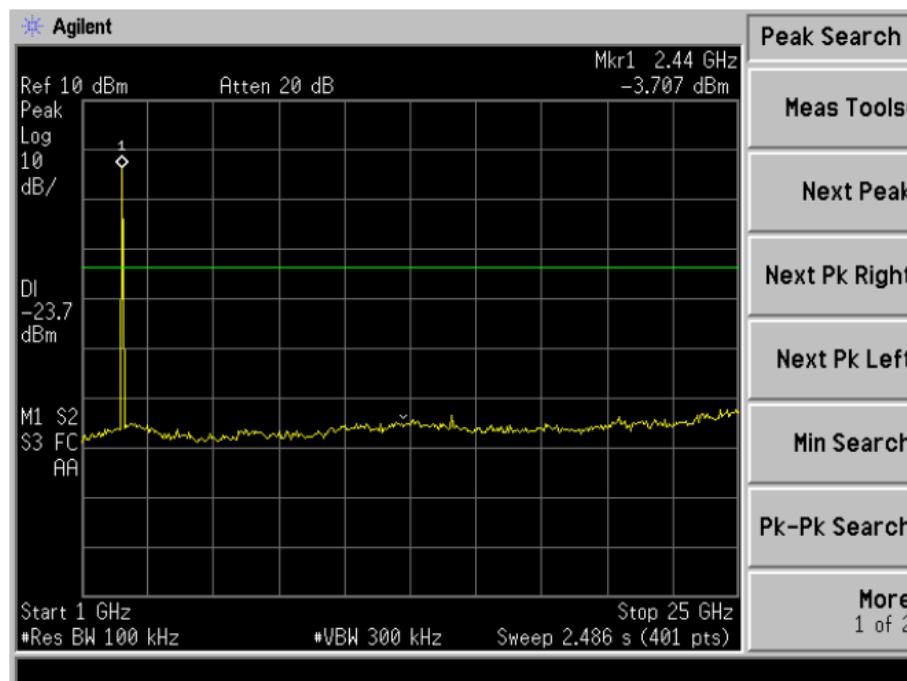
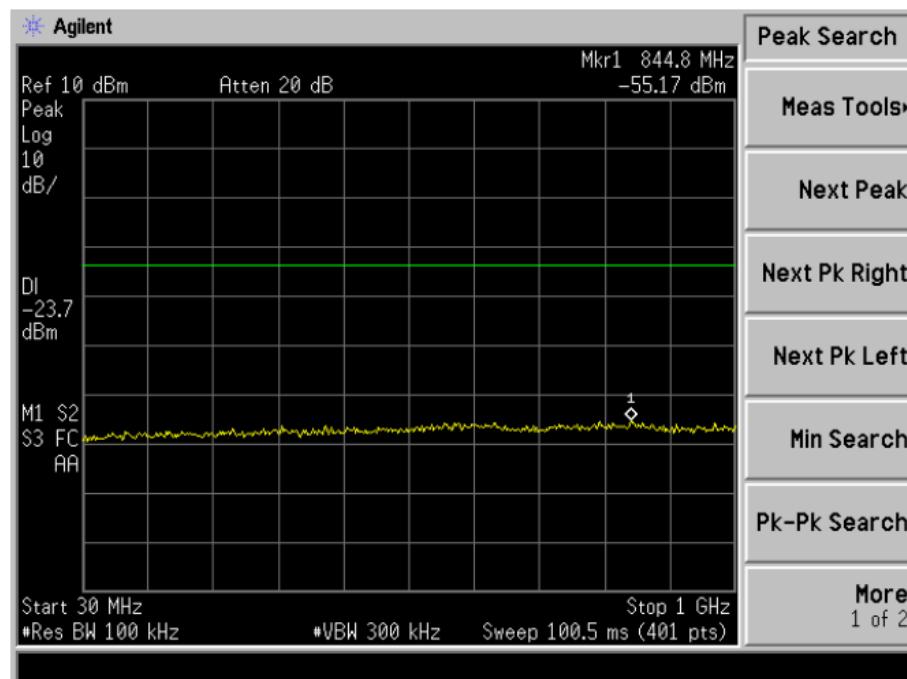


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High channel



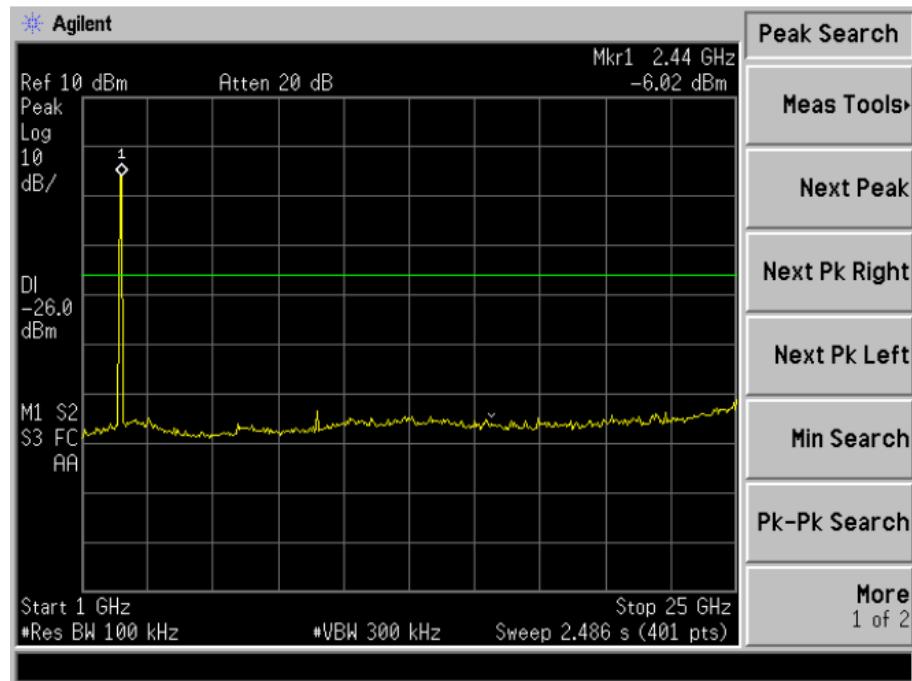
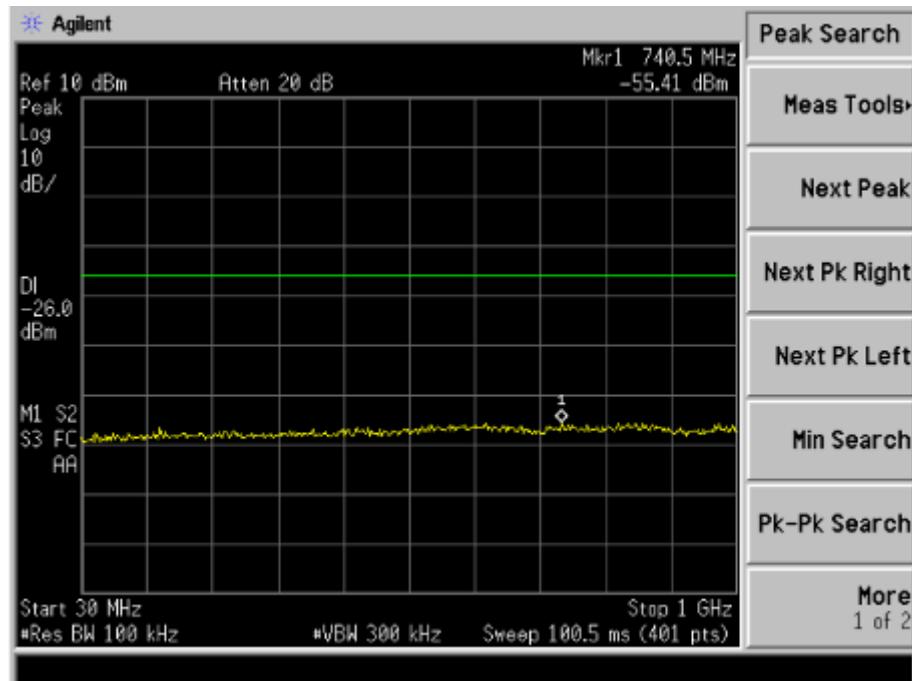
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802.11g 6Mbps mode:

Low channel

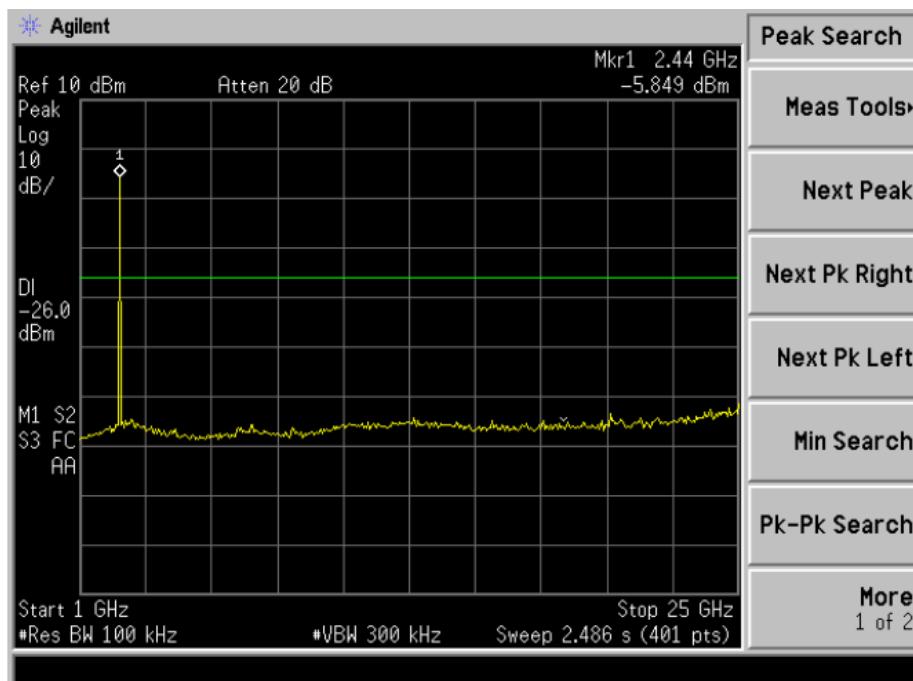
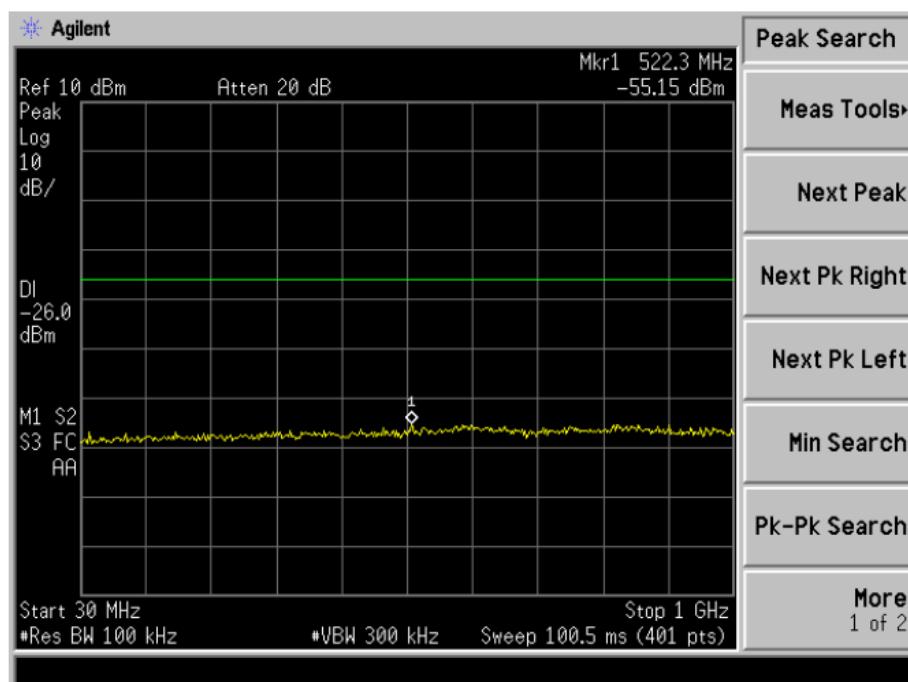


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Middle channel

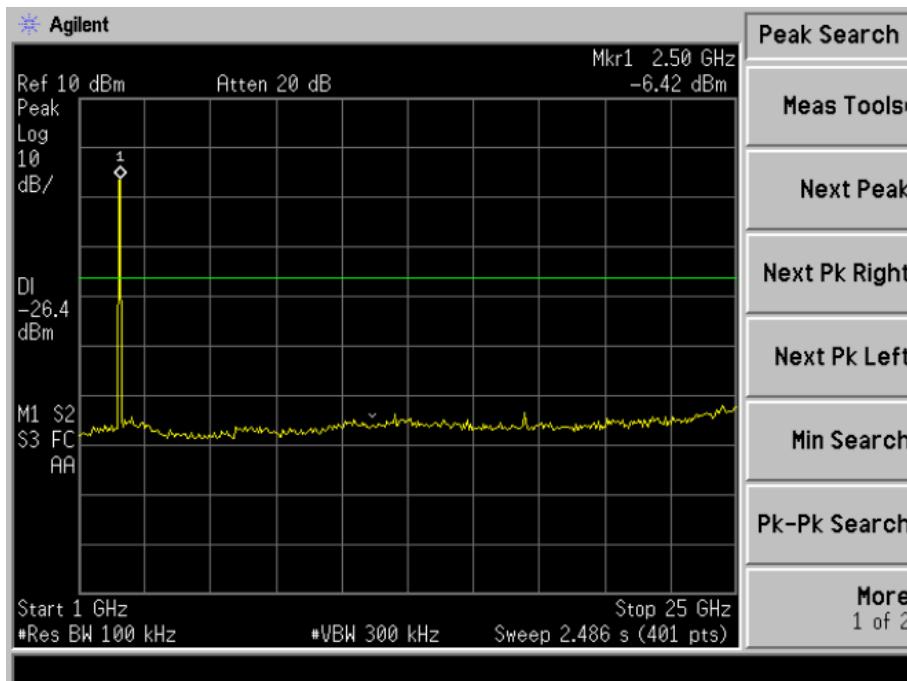
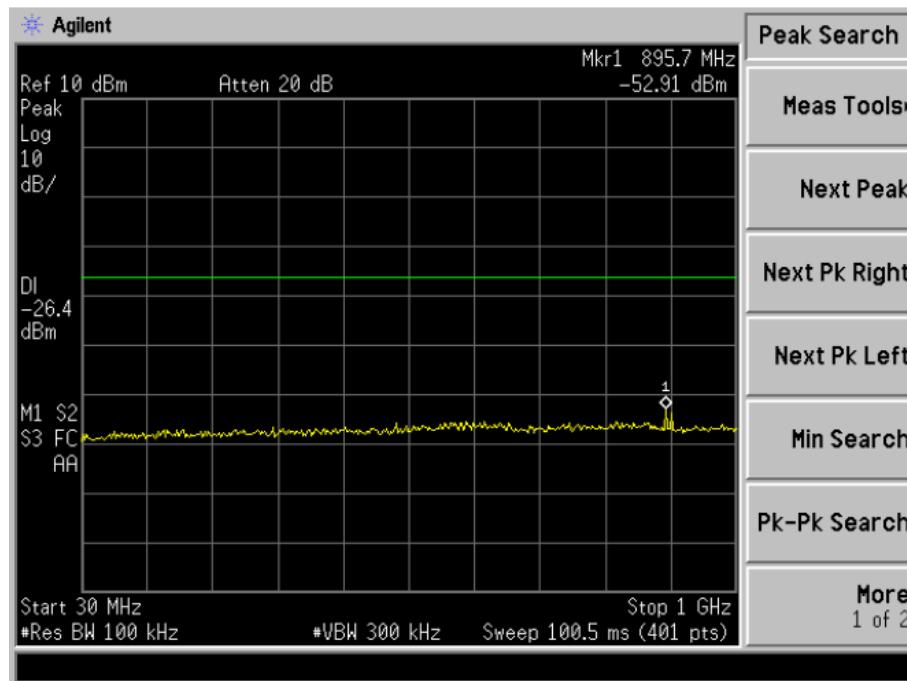


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High channel



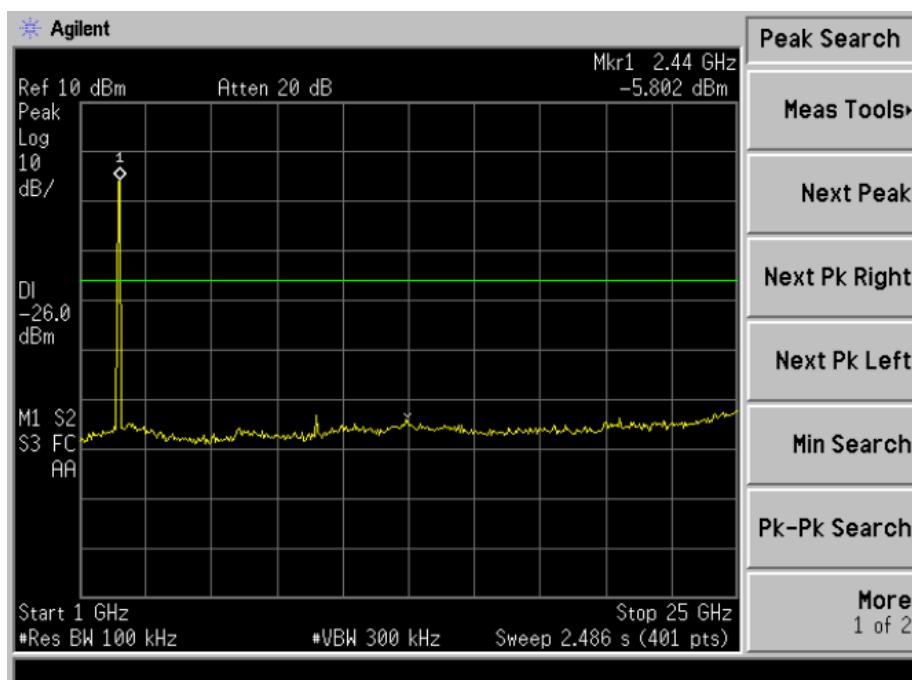
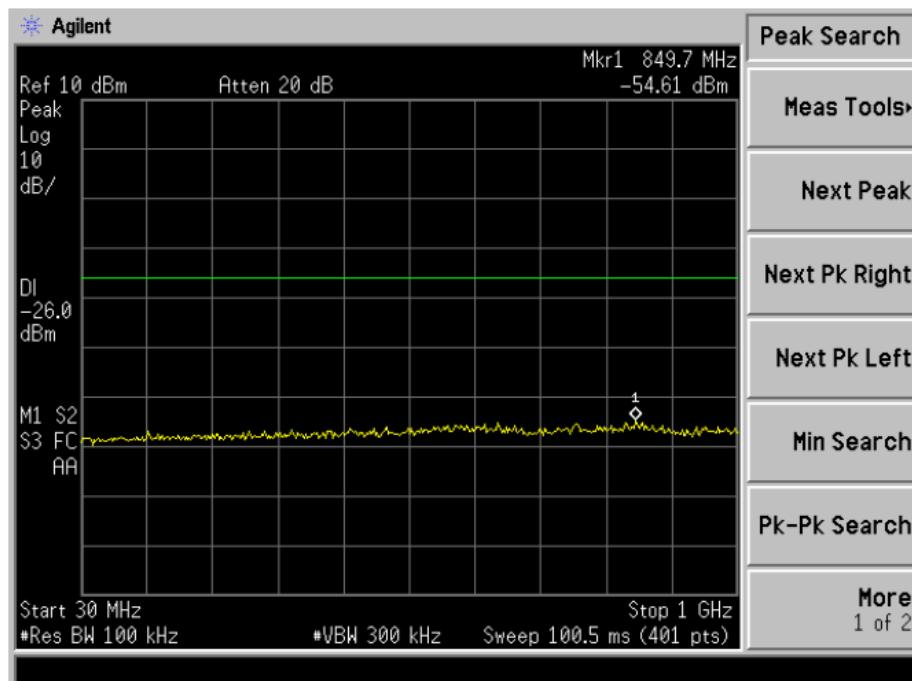
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802.11n HT20 6.5Mbps mode:

Low channel

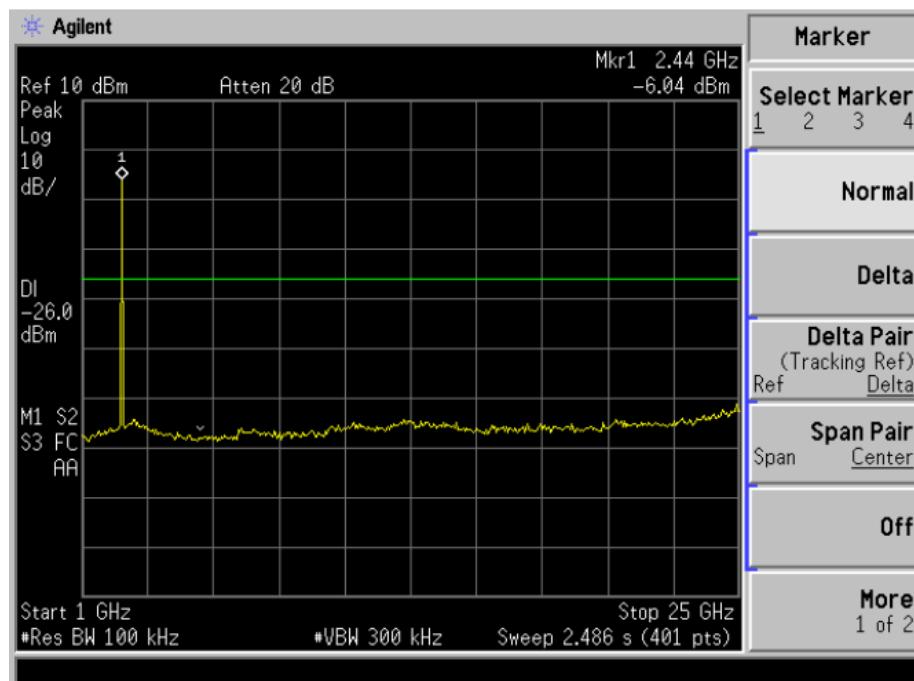
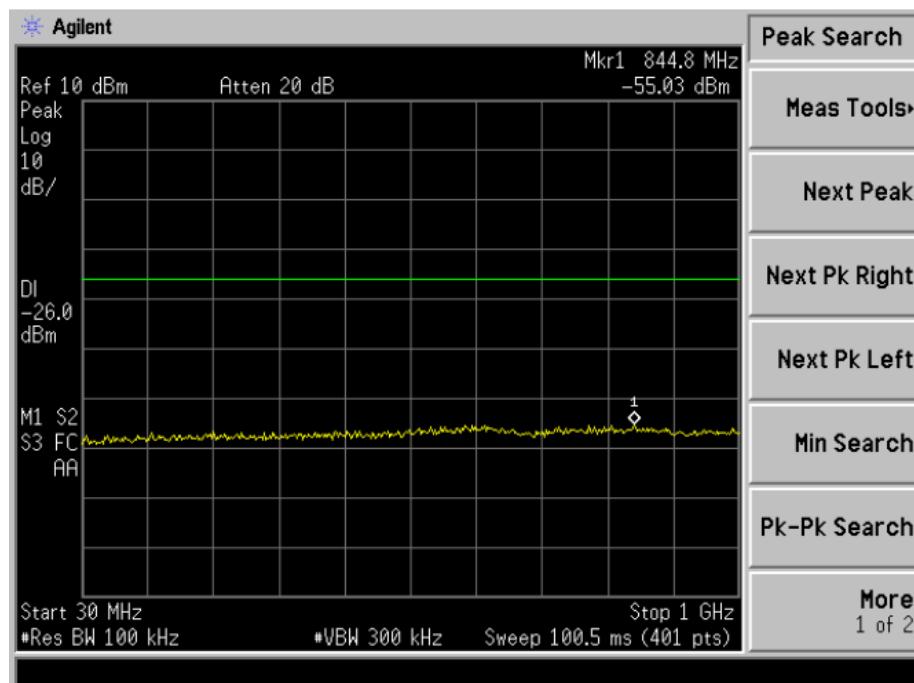


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Middle channel

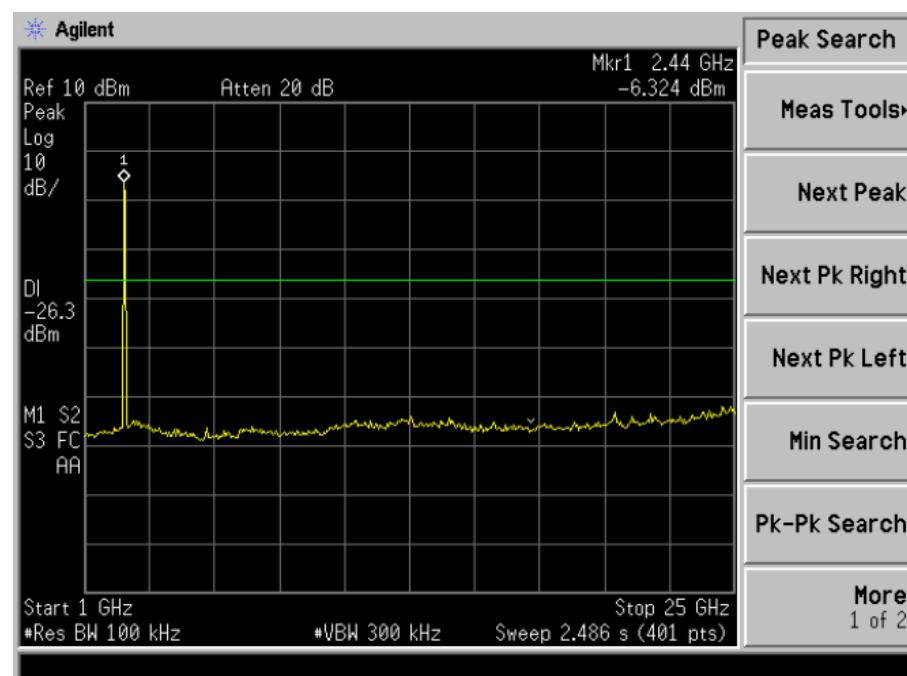
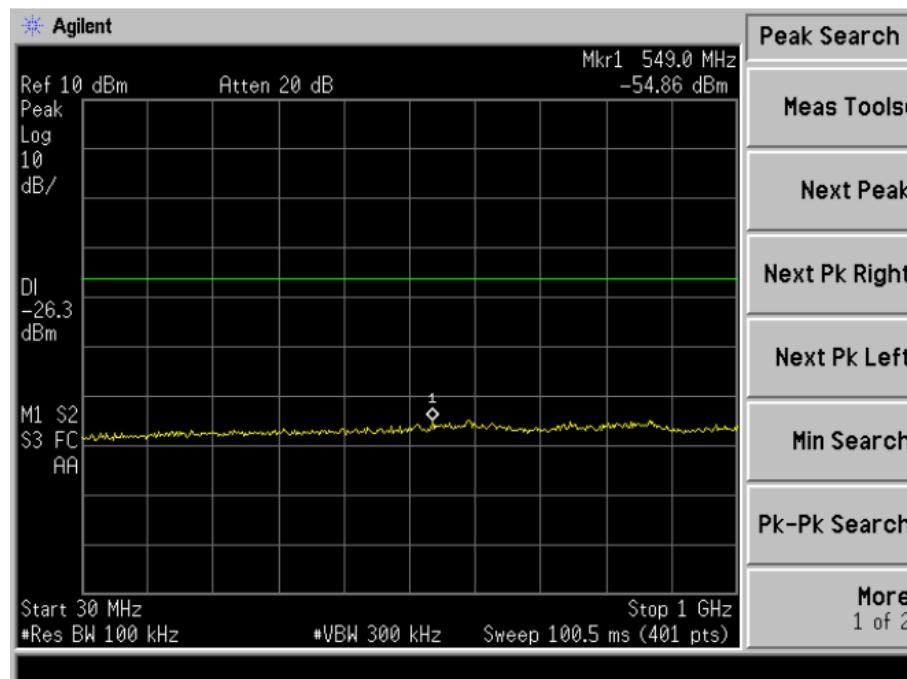


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High channel



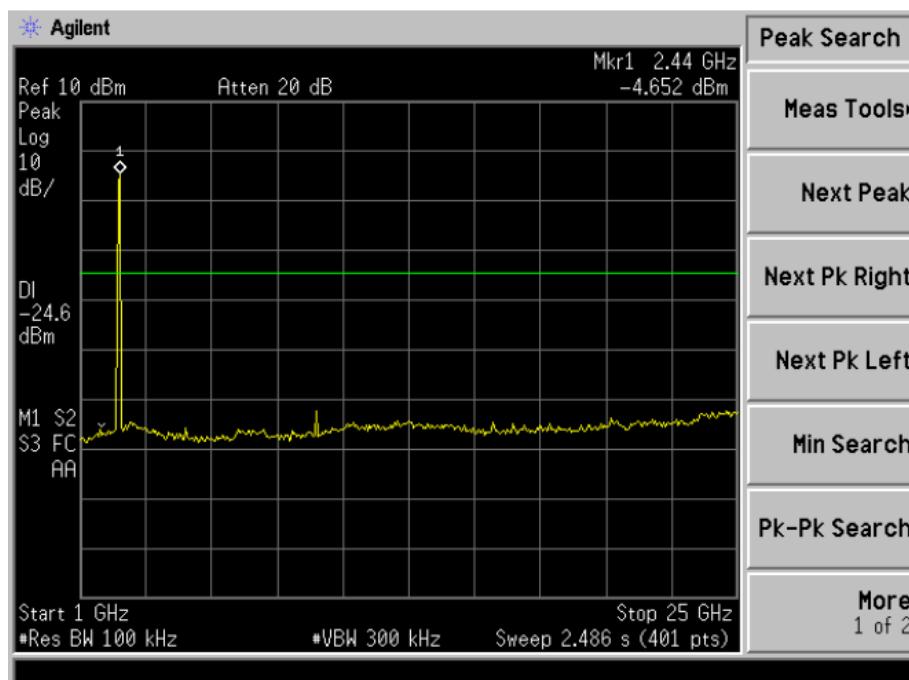
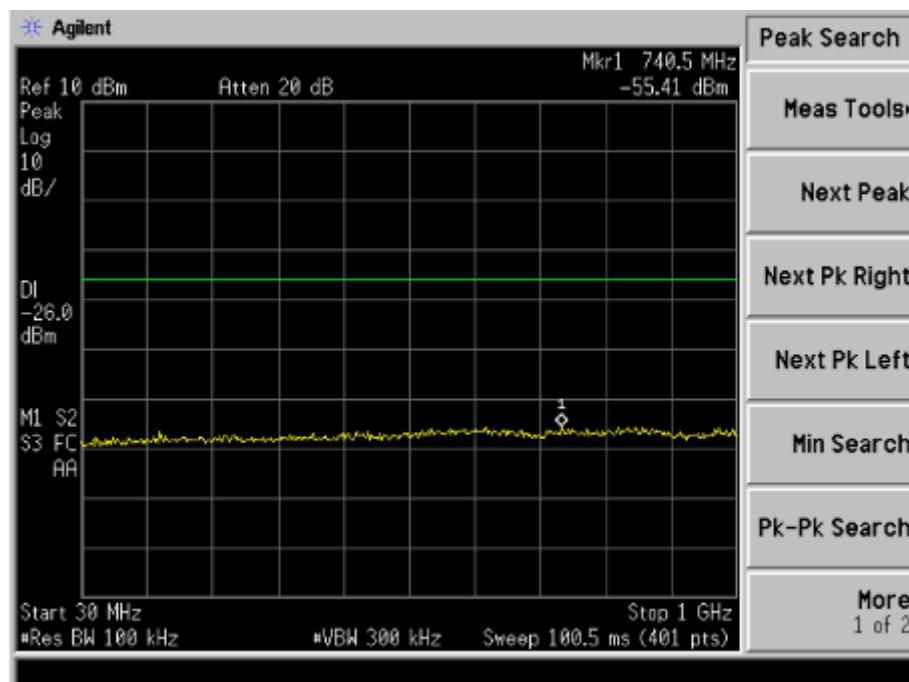
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802.11n-HT40 13.5Mbps mode:

Low channel

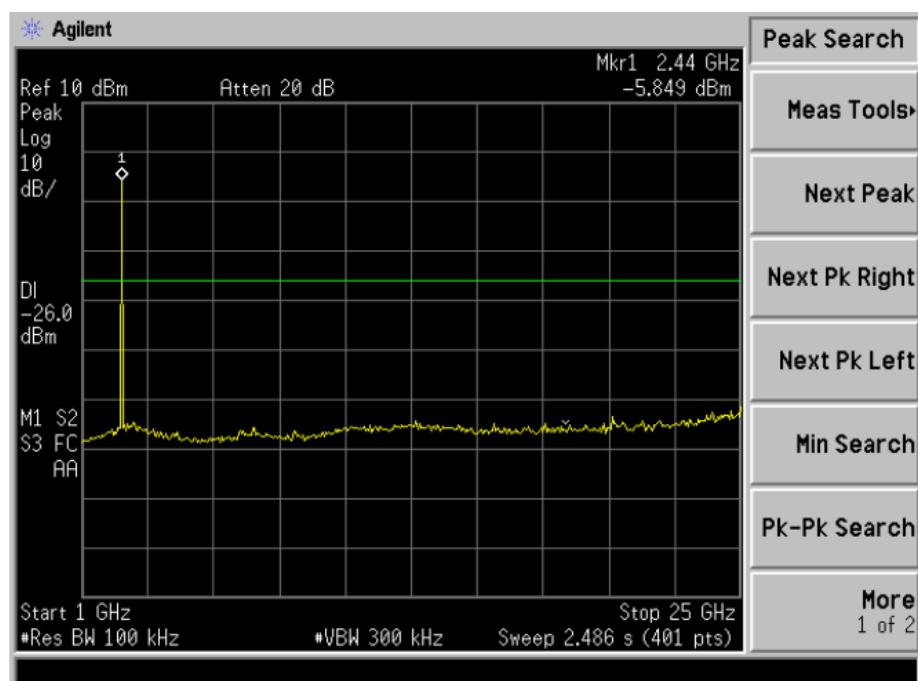
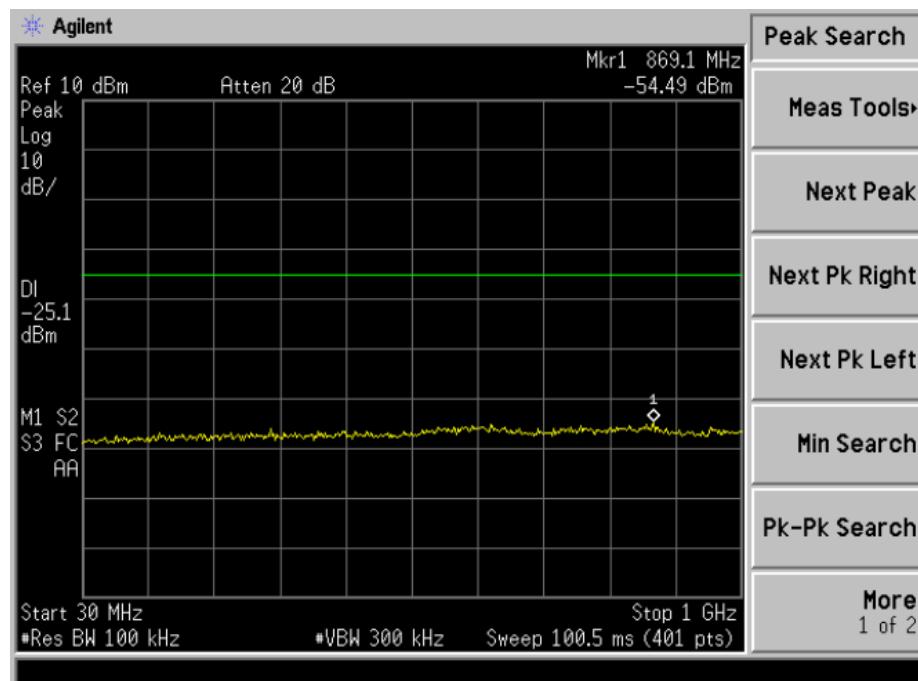


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Middle channel

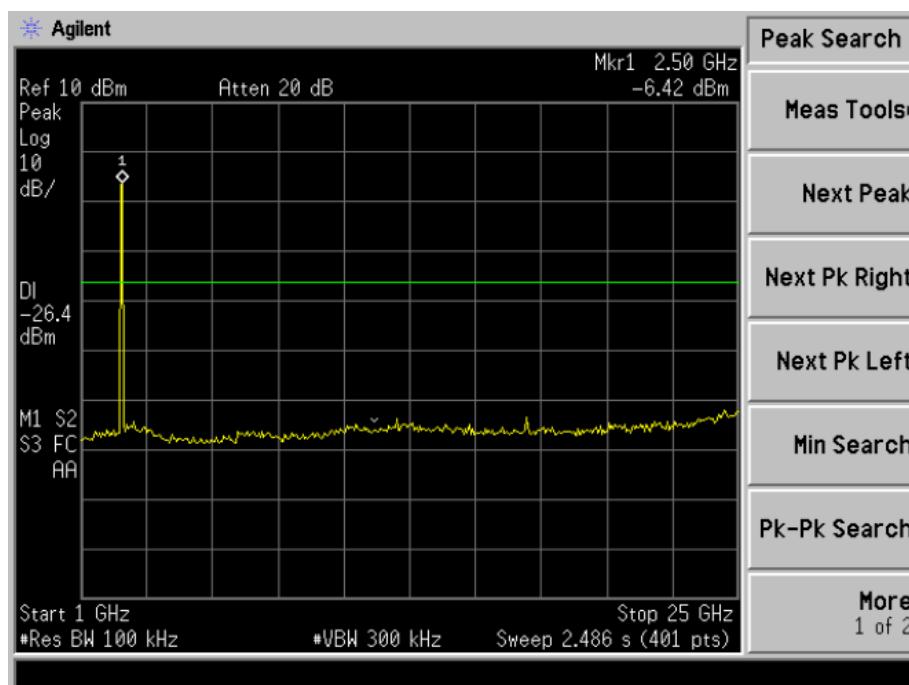
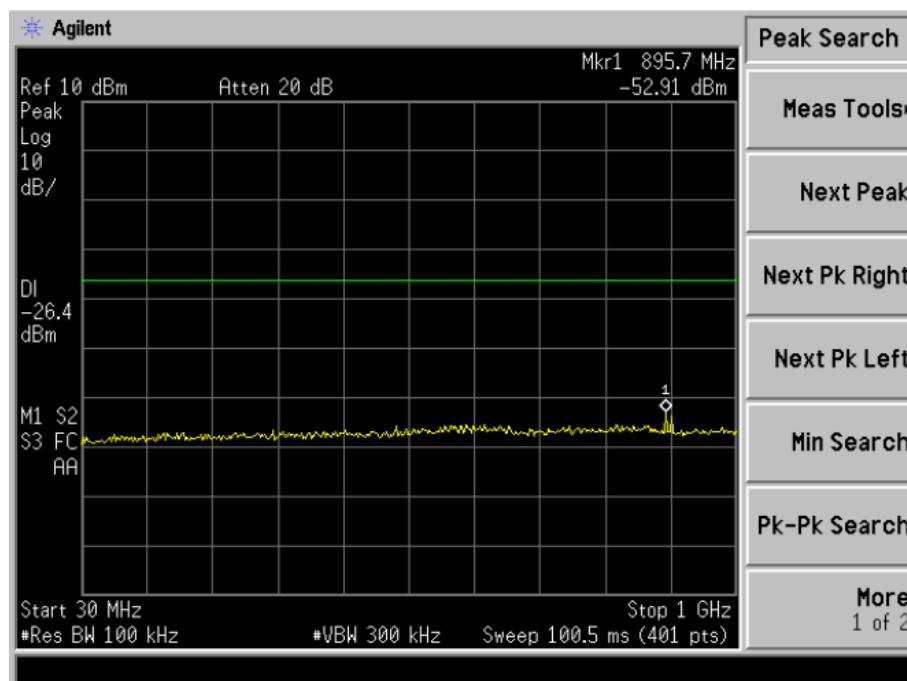


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High channel



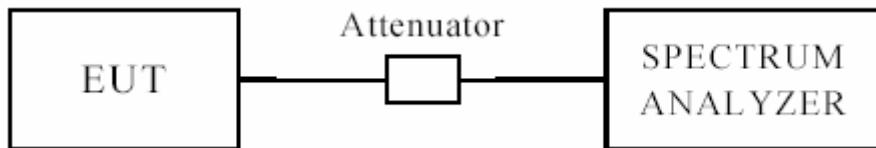
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7.0 6dB Bandwidth Measurement

7.1 Test Setup



7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500 kHz

7.3 Test Procedure

1. Set resolution bandwidth (RBW) = 100 kHz
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.4 Test Result

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Test Result: Pass.

Note: Result the worst case in this part.

Please refer to the following tables

Channel Frequency (MHz)	Data Rate (Mbps)	6dB Bandwidth (kHz)	Limit (kHz)	Ref. Plot
802.11b 1Mbps Mode				
2412	1	9295	>500	PLOT 1
2437	1	9846	>500	PLOT 2
2462	1	8846	>500	PLOT 3
802.11g 6Mbps Mode				
2412	6	16538	>500	PLOT 4
2437	6	16474	>500	PLOT 5
2462	6	16538	>500	PLOT 6
802.11n HT20 6.5Mbps Mode				
2412	6.5	17820	>500	PLOT 7
2437	6.5	17307	>500	PLOT 8
2462	6.5	17756	>500	PLOT 9
802.11n HT40 13.5Mbps Mode				
2422	13.5	36057	>500	PLOT 10
2437	13.5	36057	>500	PLOT 11
2452	13.5	36250	>500	PLOT 12

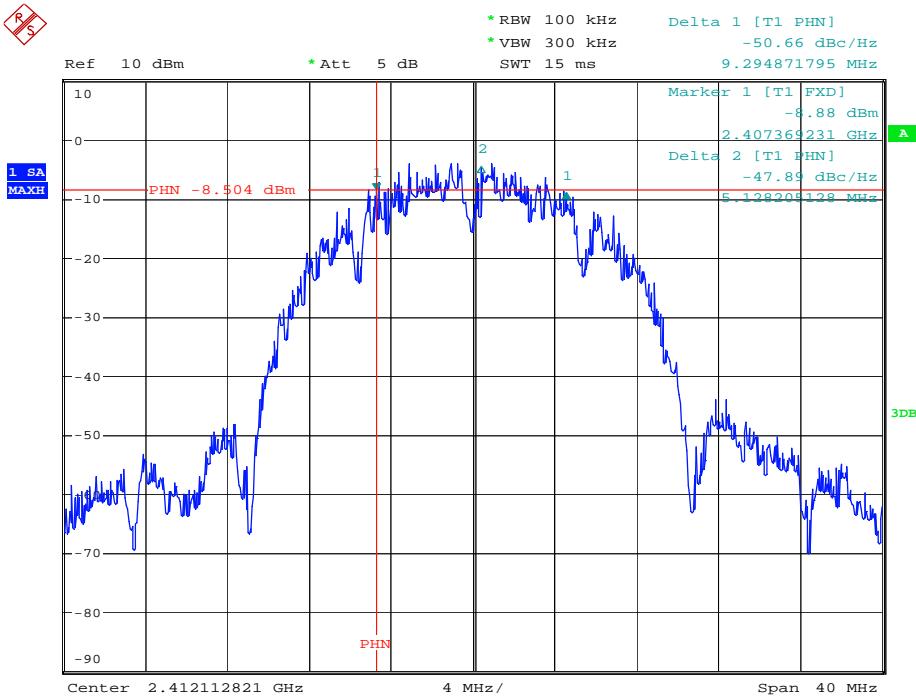
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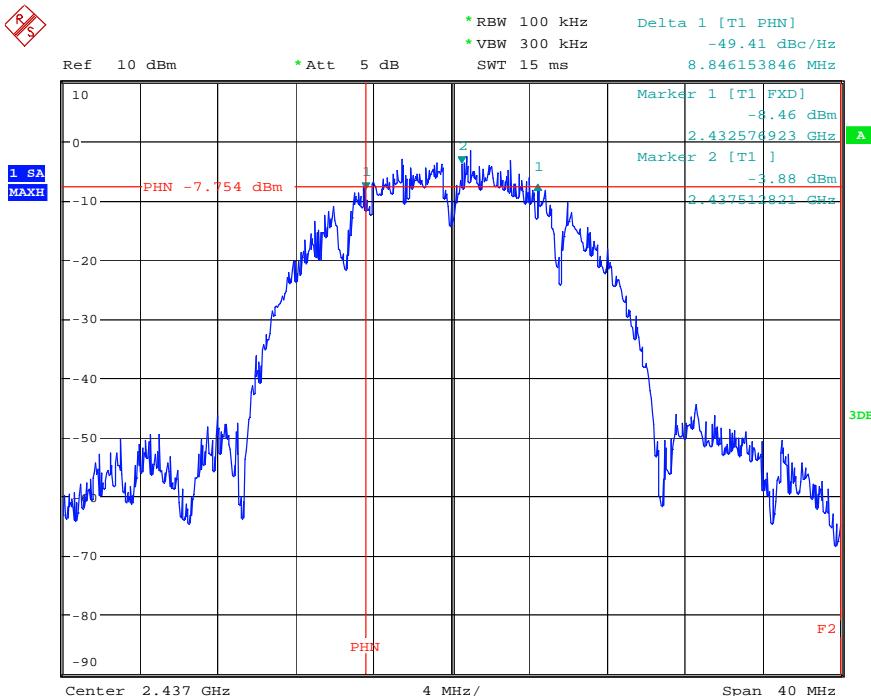
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802.11b 1Mbps Mode:

PLOT 1-Low Channel



PLOT 2-Middle channel

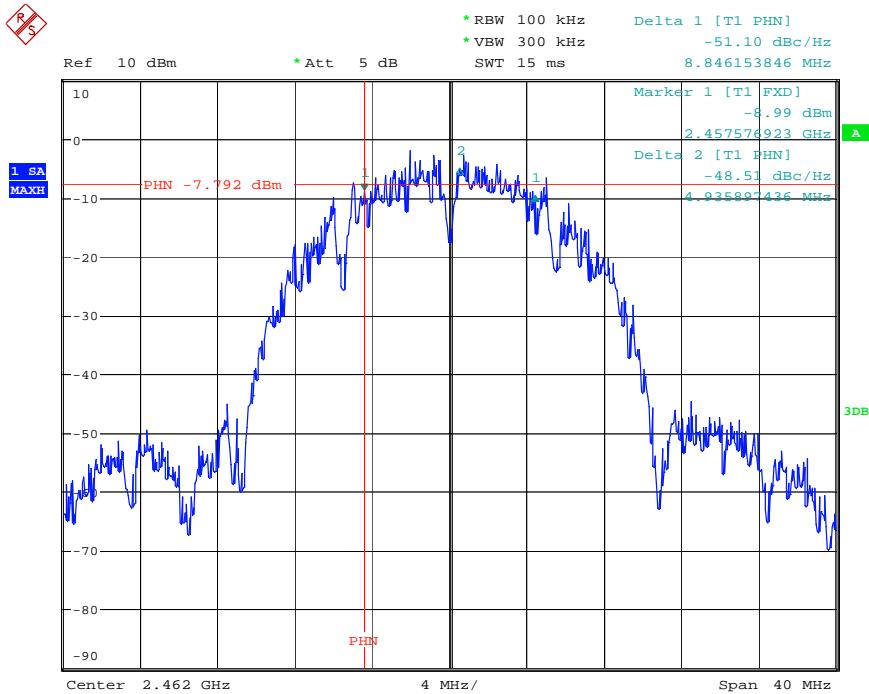


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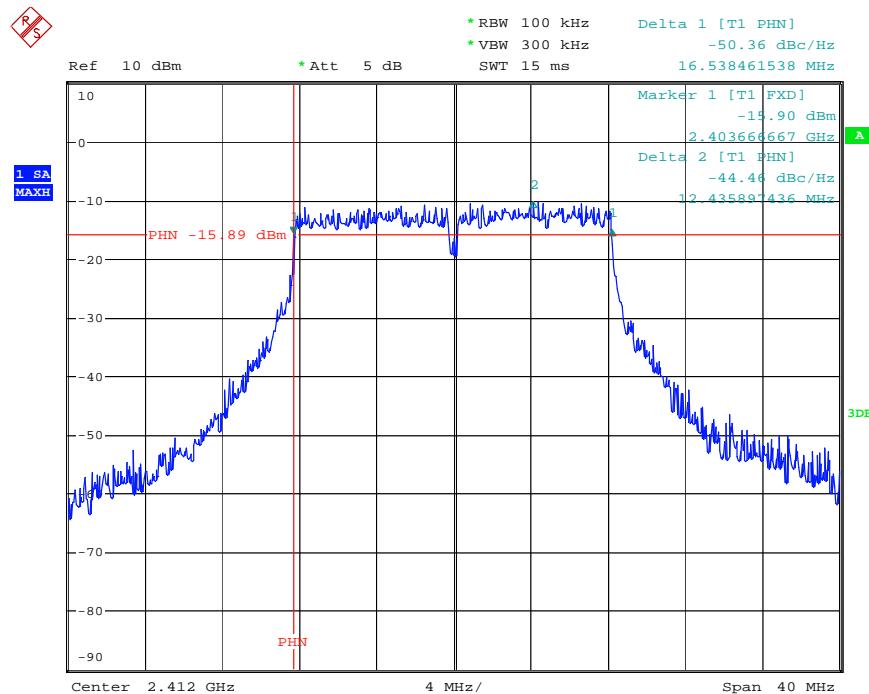
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PLOT 3-High Channel



802.11g 6Mbps Mode:

PLOT 4-Low Channel

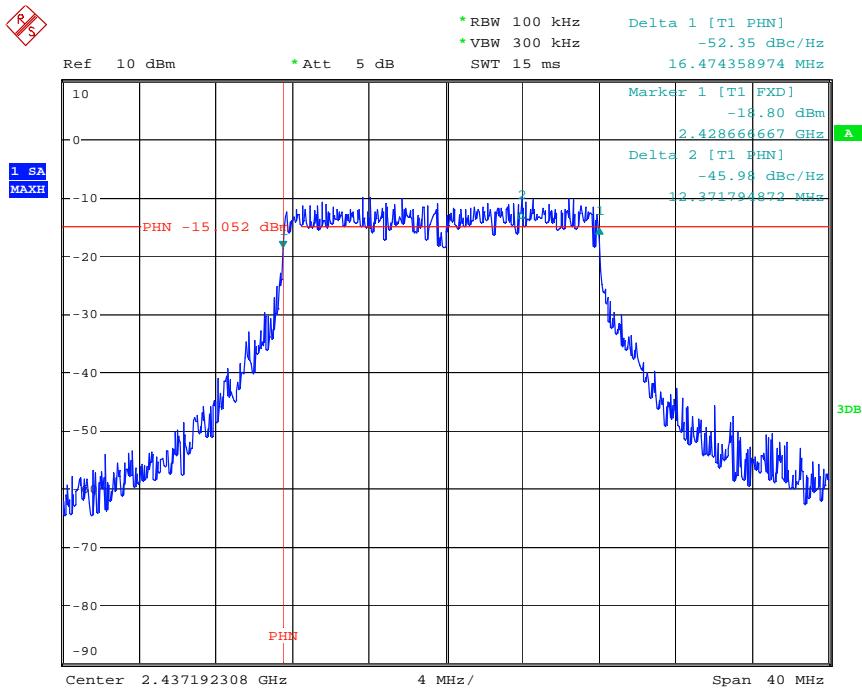


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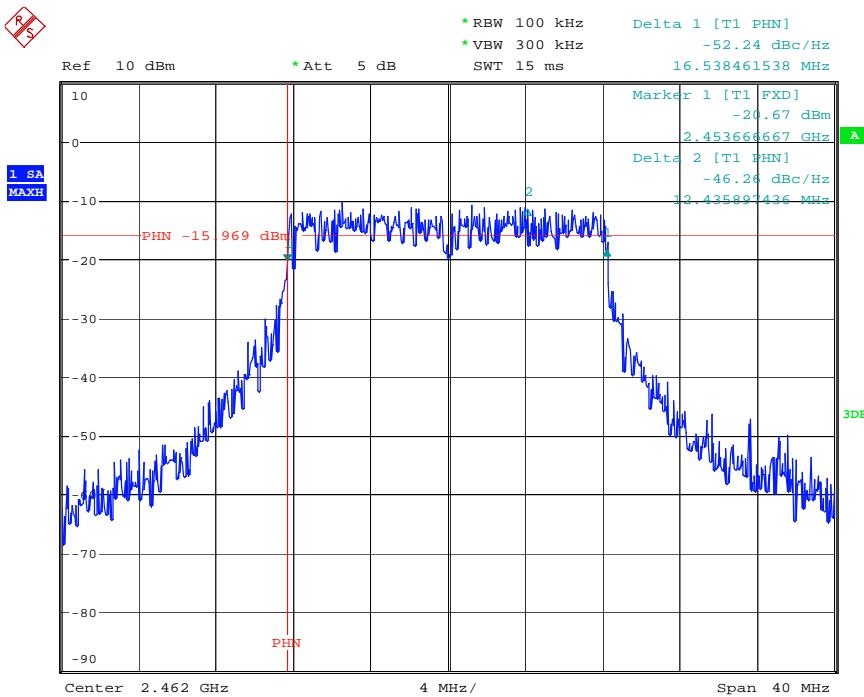
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PLOT 5-Middle Channel



PLOT 6-High Channel



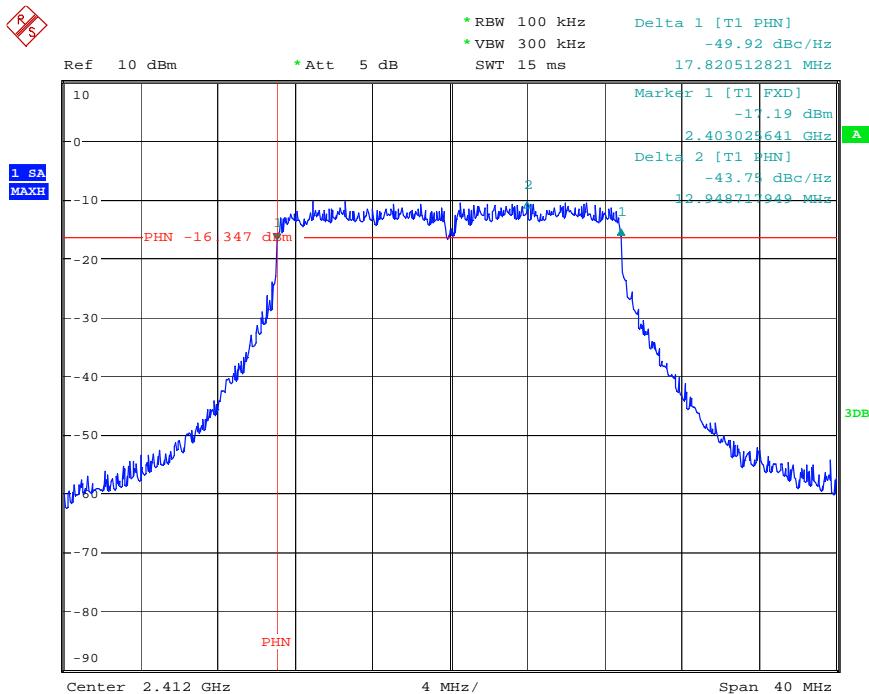
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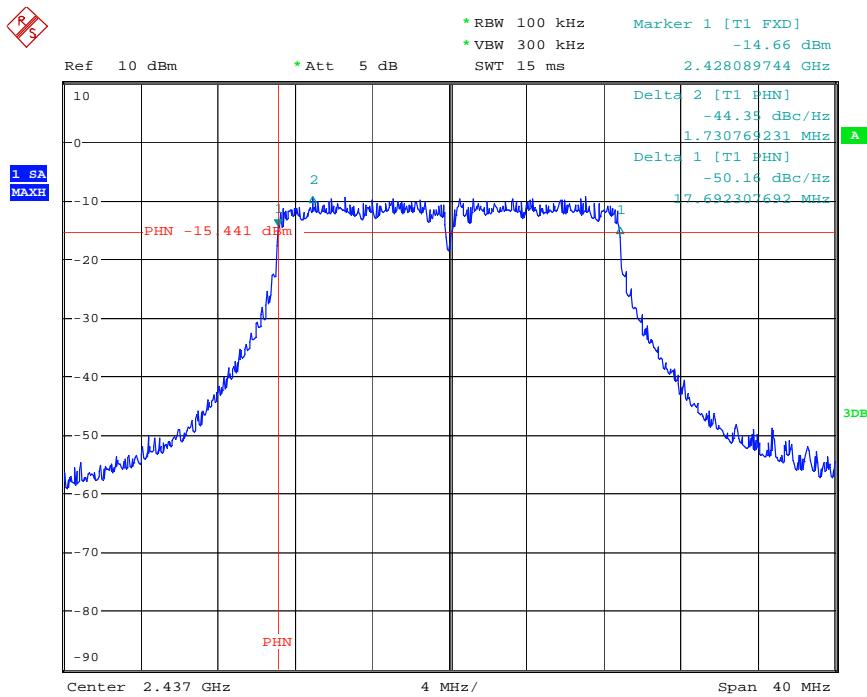
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802.11n HT20 6.5Mbps Mode:

PLOT 7-Low Channel



PLOT 8-Middle Channel

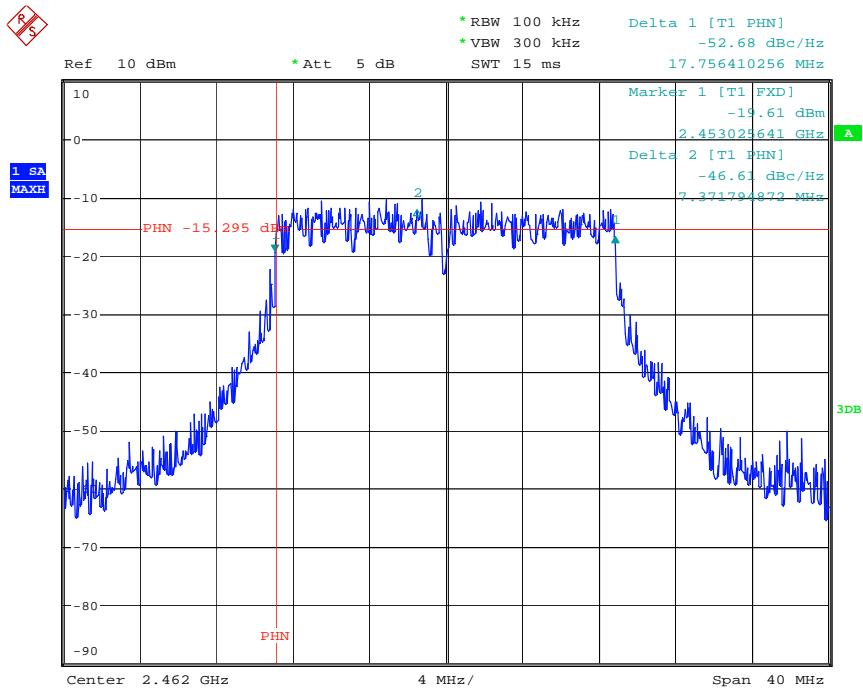


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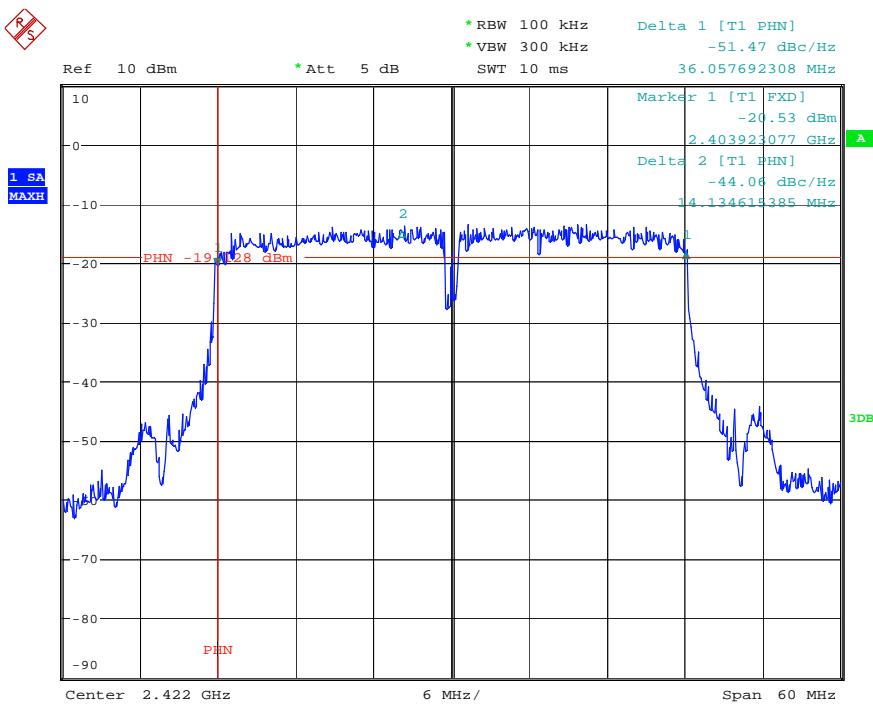
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PLOT 9-High Channel



802.11n HT40 13.5Mbps Mode:

PLOT 10-Low Channel

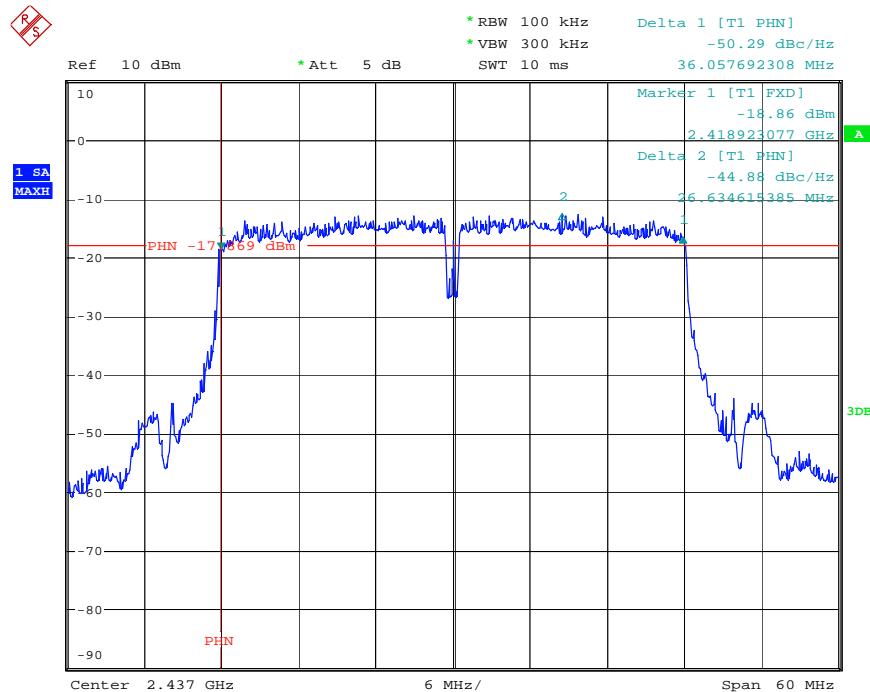


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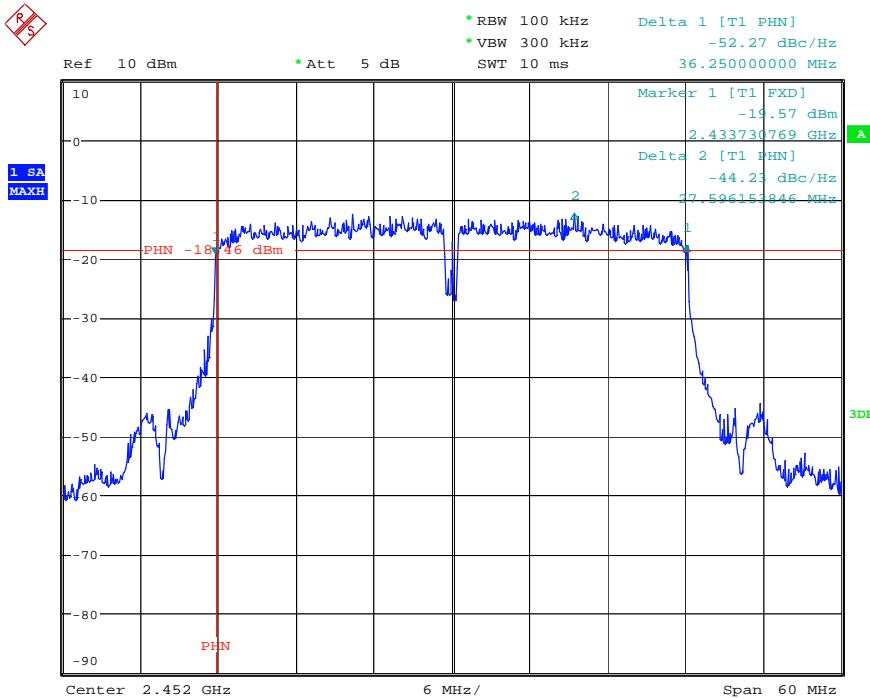
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PLOT 11-Middle Channel



PLOT 12-High Channel



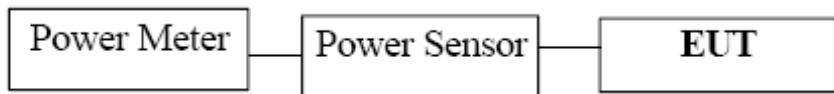
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8. Maximum Peak Output Power

8.1 Test Setup



8.2 Limits of Maximum Peak Output Power

The Maximum Peak Output Power Measurement is 30dBm.

8.3 Test Procedure

The RF power output was measured with a Power meter connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate centre frequency.

Note: the peak power was measured

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Test Result

Note: Result the worst case in this part.

802.11b 1Mbps Mode:

Channel	Frequency (MHz)	Data Rate (Mbps)	Conducted Power (dBm)	Limit (dBm)
Low	2412	1	15.96	30
Mid	2437	1	17.03	30
High	2462	1	17.68	30

802.11g 6Mbps Mode:

Channel	Frequency (MHz)	Data Rate (Mbps)	Conducted Power (dBm)	Limit (dBm)
Low	2412	6	12.25	30
Mid	2437	6	11.63	30
High	2462	6	13.48	30

802.11n HT20 6.5Mbps Mode:

Channel	Channel Frequency (MHz)	Data Rate (Mbps)	Power Output (dBm)	Limit (dBm)
Low	2412	6.5	12.25	30
Mid	2437	6.5	12.62	30
High	2462	6.5	12.82	30

802.11n HT20 13.5Mbps Mode:

Channel	Channel Frequency (MHz)	Data Rate (Mbps)	Power Output (dBm)	Limit (dBm)
Low	2422	13.5	11.69	30
Mid	2437	13.5	12.01	30
High	2452	13.5	12.10	30

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802.11b Mode:

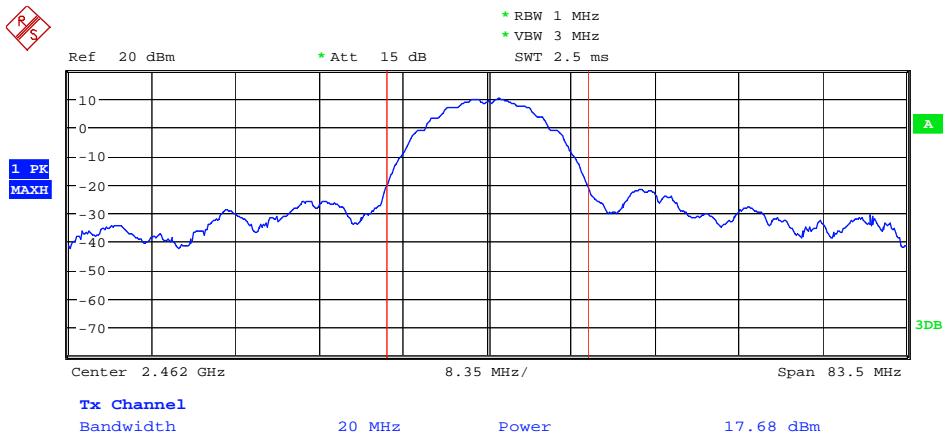
Low channel



Middle channel



High channel



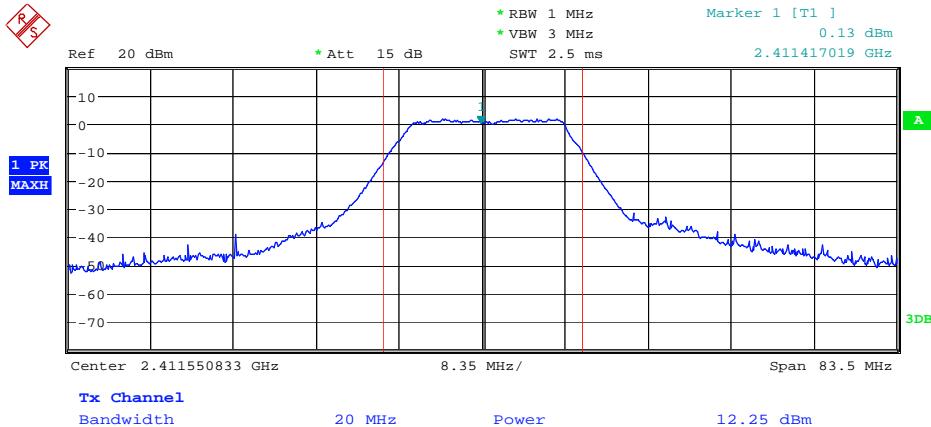
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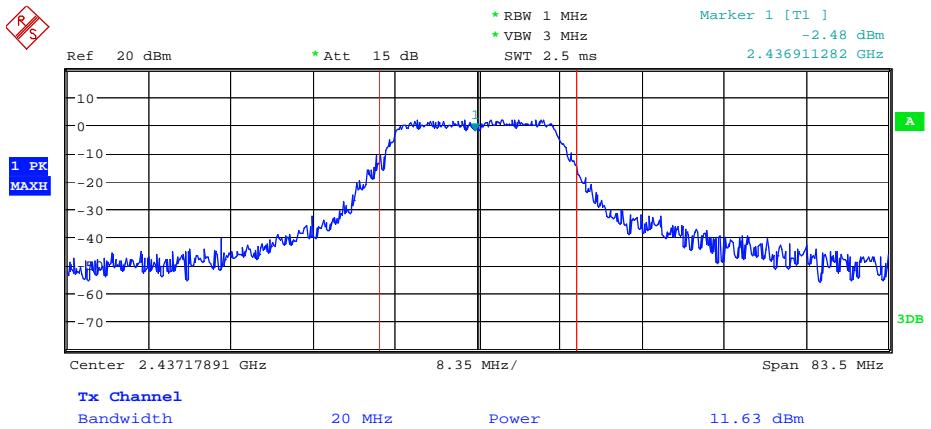
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802.11g mode:

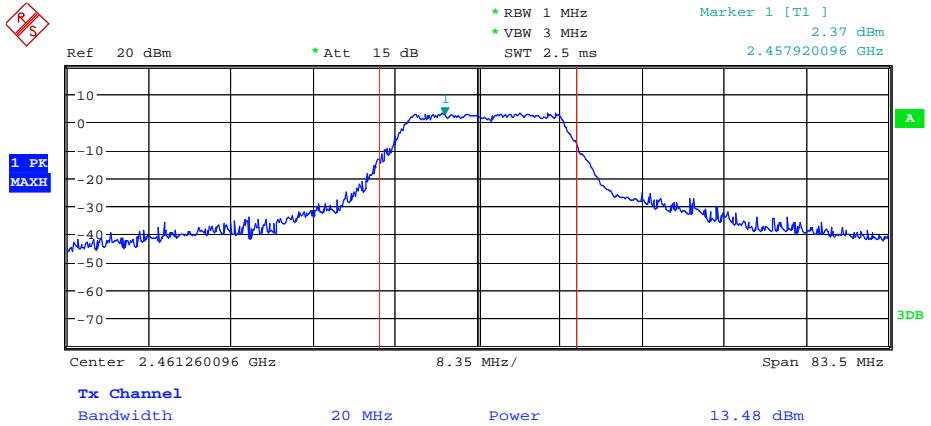
Low channel



Middle channel



High channel



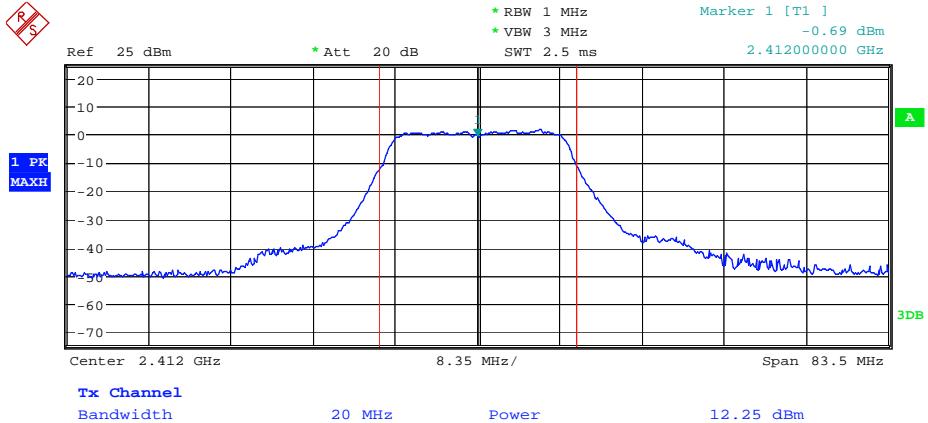
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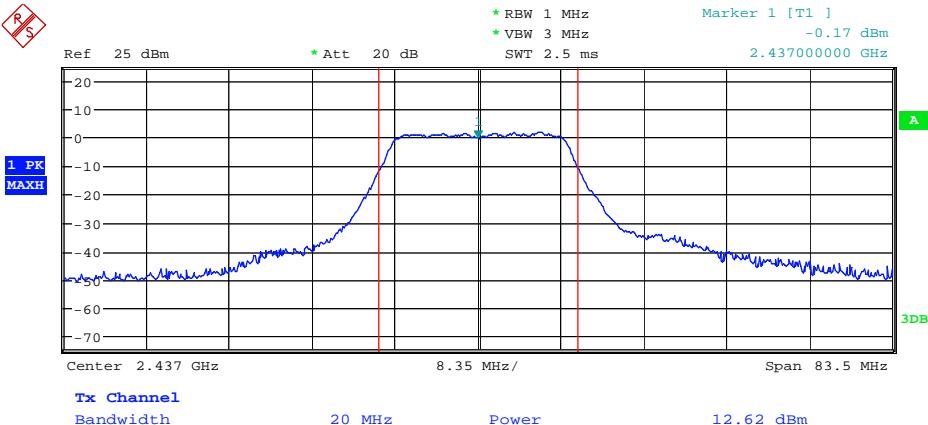
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802.11n HT20 Mode:

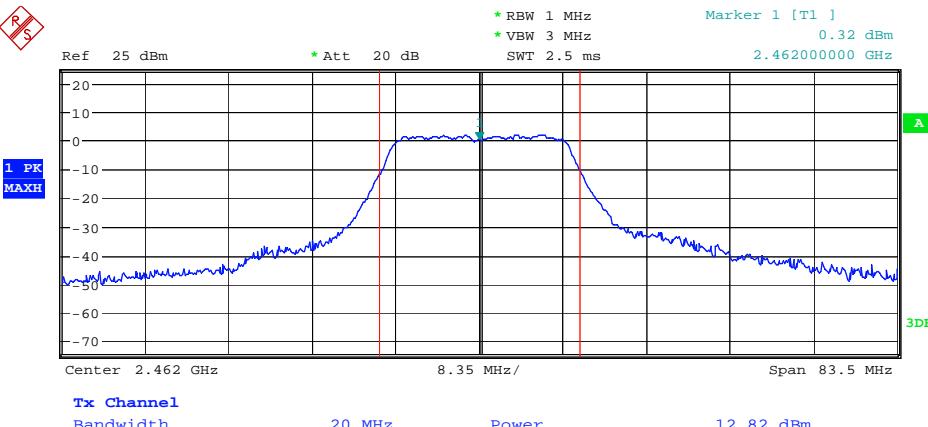
Low channel



Middle channel



High channel



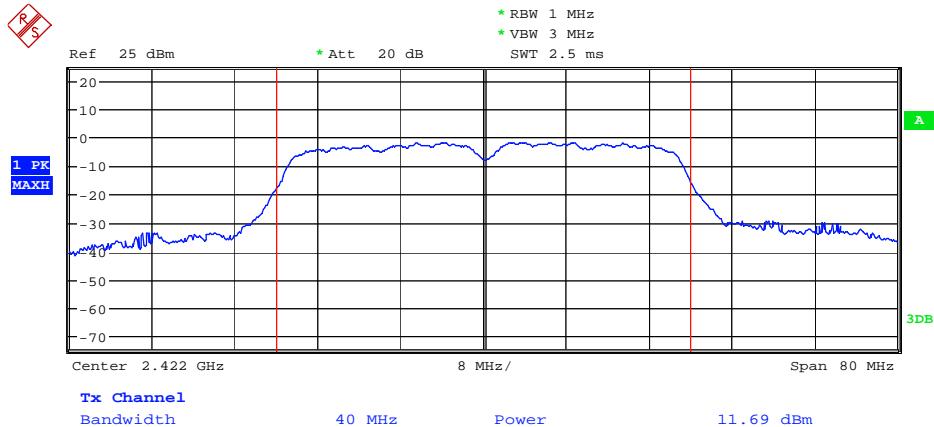
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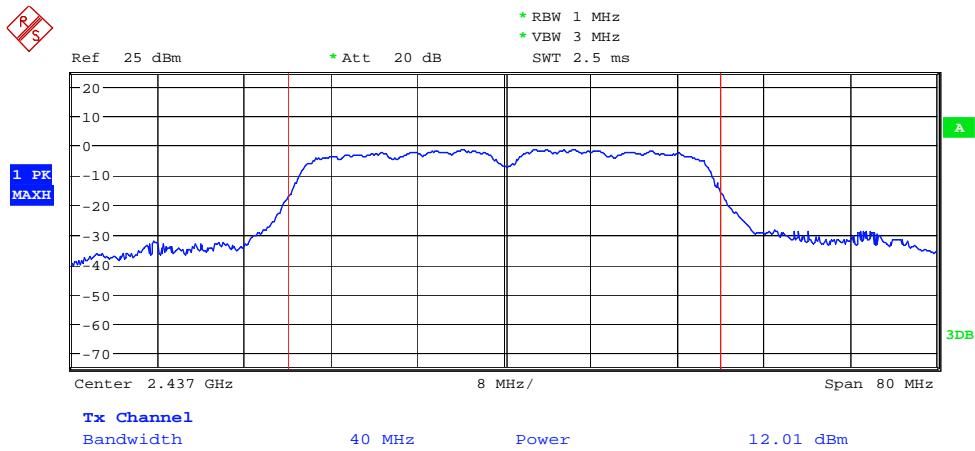
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802.11n HT40 Mode:

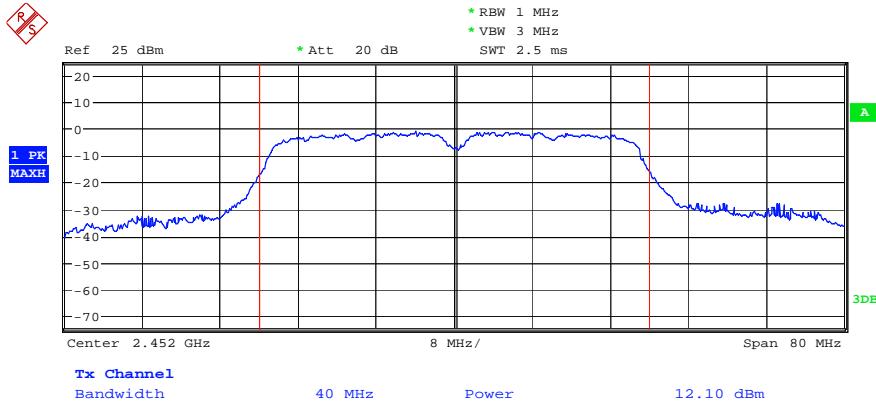
Low channel



Middle channel



High channel



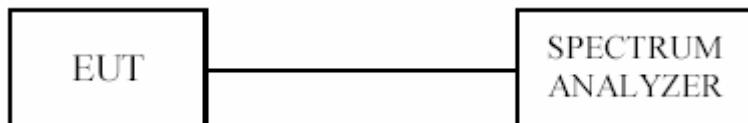
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9. Power Spectral Density Measurement

9.1 Test Setup



9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm.

9.3 Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW = 10 kHz.
3. Set the VBW \geq 30 kHz.
4. Set the span to 1.5 times the DTS channel bandwidth.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
11. The resulting peak PSD level must be \leq 8 dBm.

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Test Result

Note: Result the worst case in this part.

PASS

Channel Frequency (MHz)	Data Rate (Mbps)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	RESULT
802.11b Mode				
2412	1	-11.46	8	Compliant
2437	1	-10.69	8	Compliant
2462	1	-10.92	8	Compliant
802.11g Mode				
2412	6	-18.20	8	Compliant
2437	6	-17.71	8	Compliant
2462	6	-18.10	8	Compliant
802.11n HT20 Mode				
2412	6.5	-17.23	8	Compliant
2437	6.5	-17.63	8	Compliant
2462	6.5	-23.60	8	Compliant
802.11n HT40 Mode				
2422	13.5	-19.70	8	Compliant
2437	13.5	-19.26	8	Compliant
2452	13.5	-19.30	8	Compliant

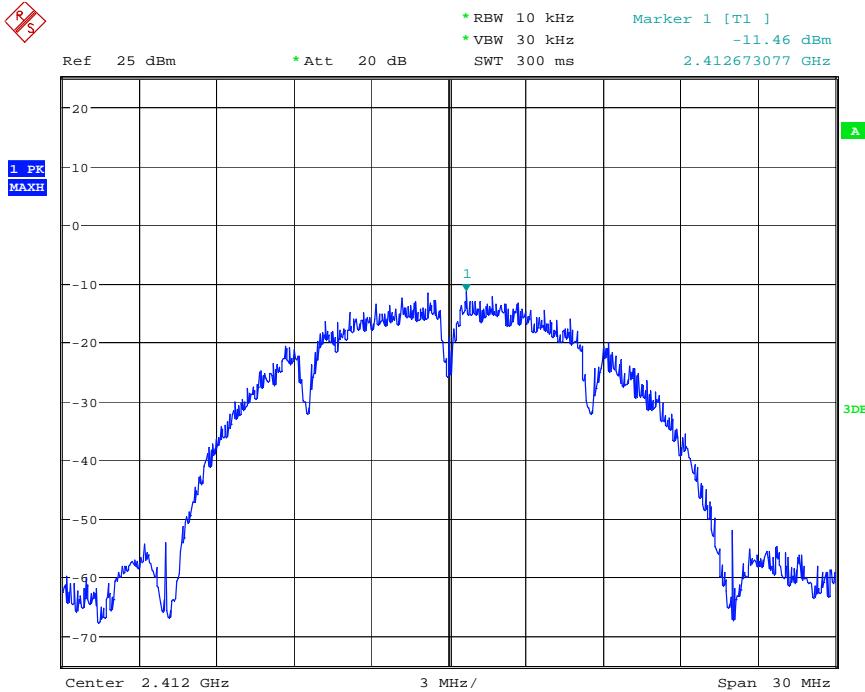
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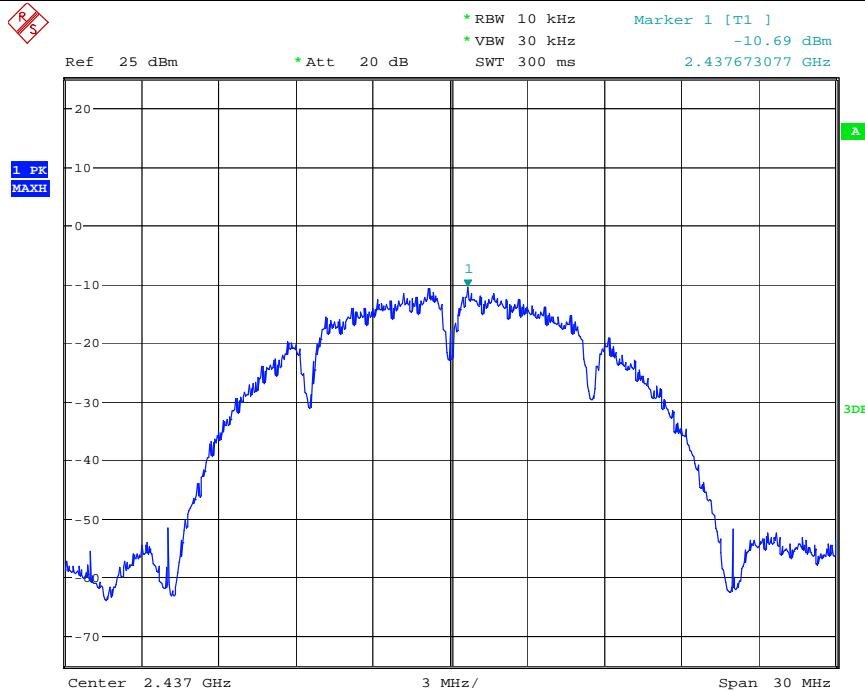
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802.11b Mode:

Low Channel



Middle Channel

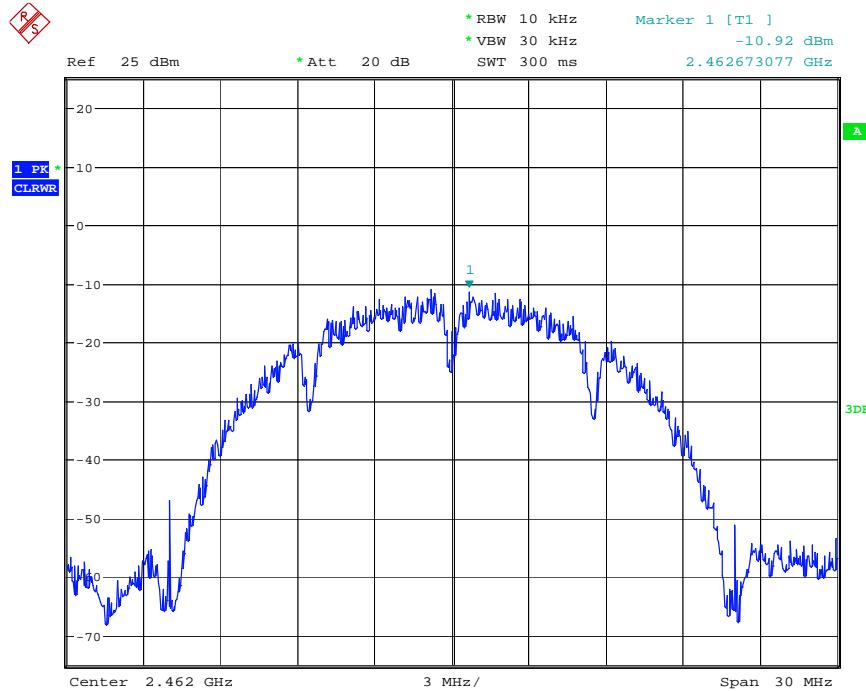


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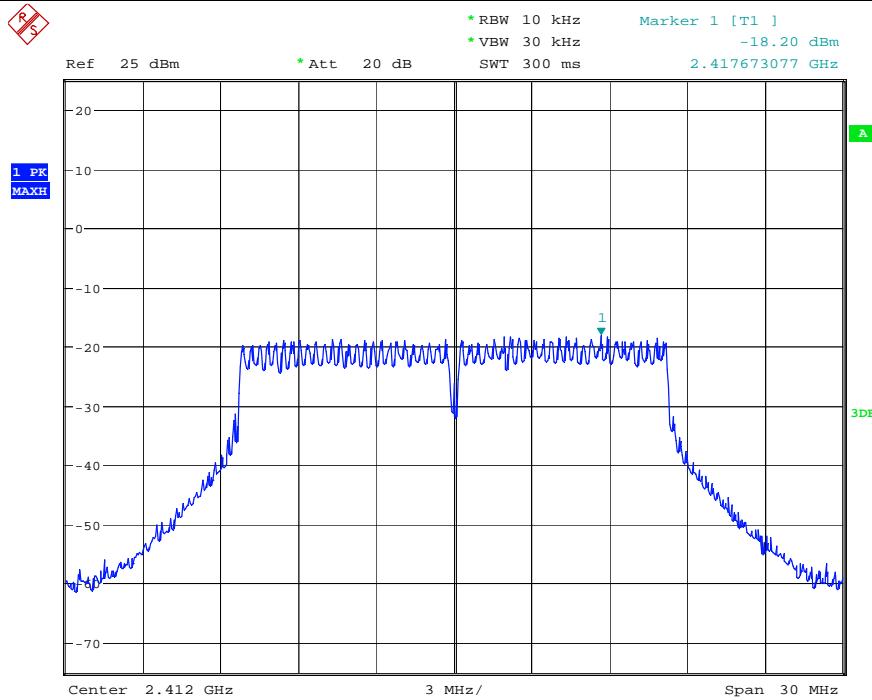
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High Channel



802.11g Mode:

Low Channel

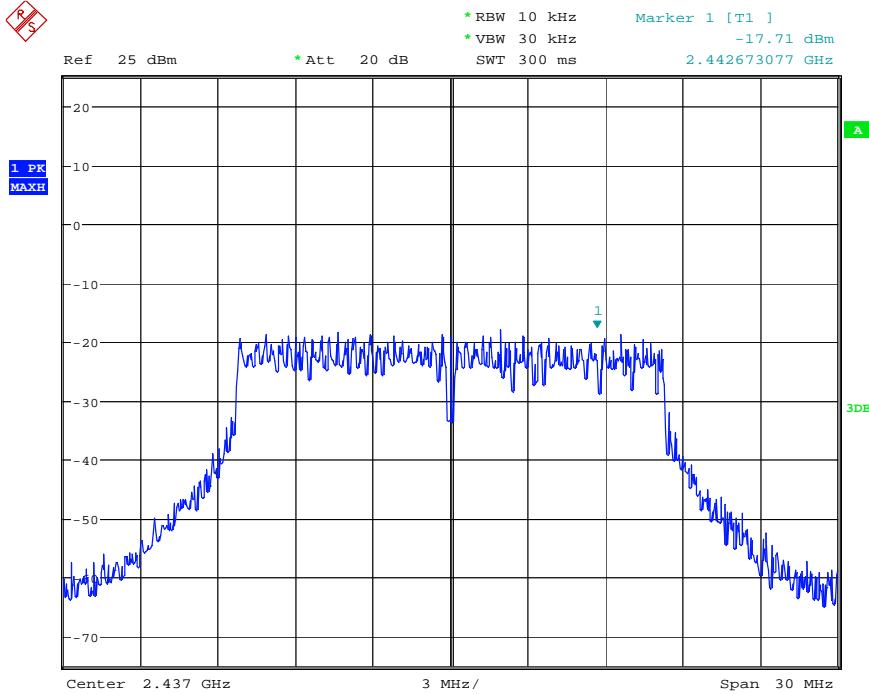


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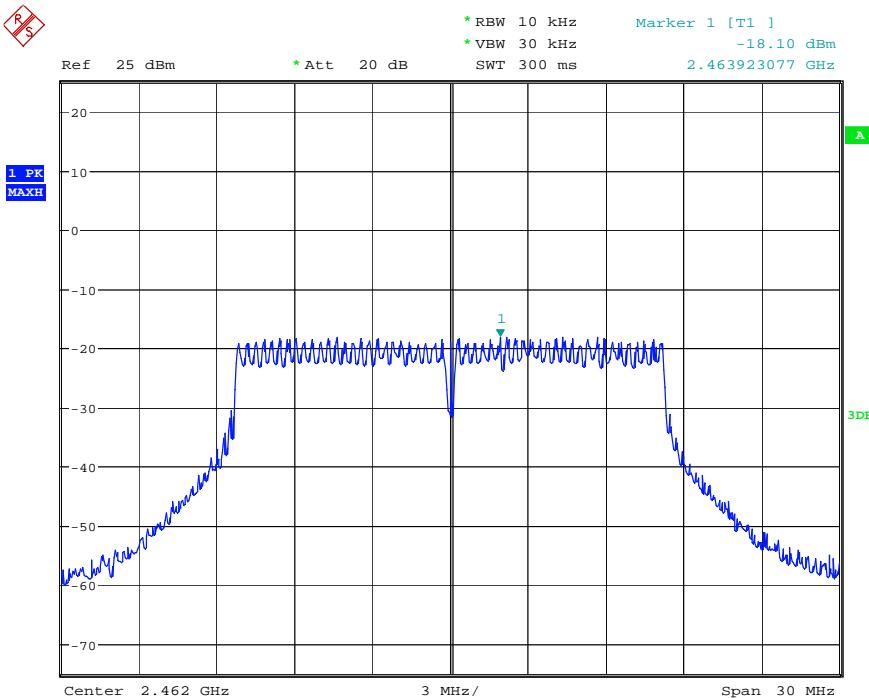
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Middle Channel



High Channel



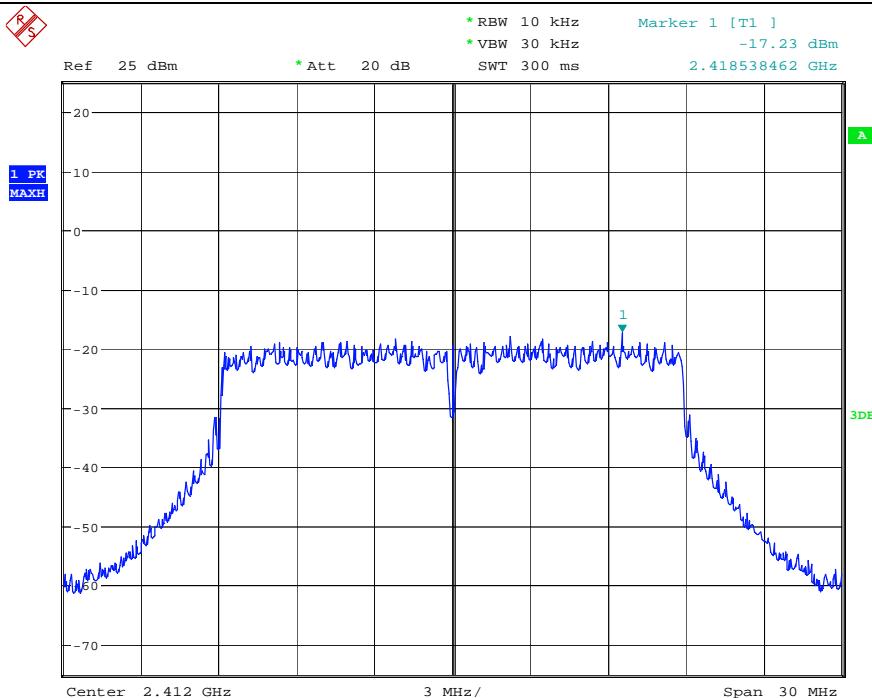
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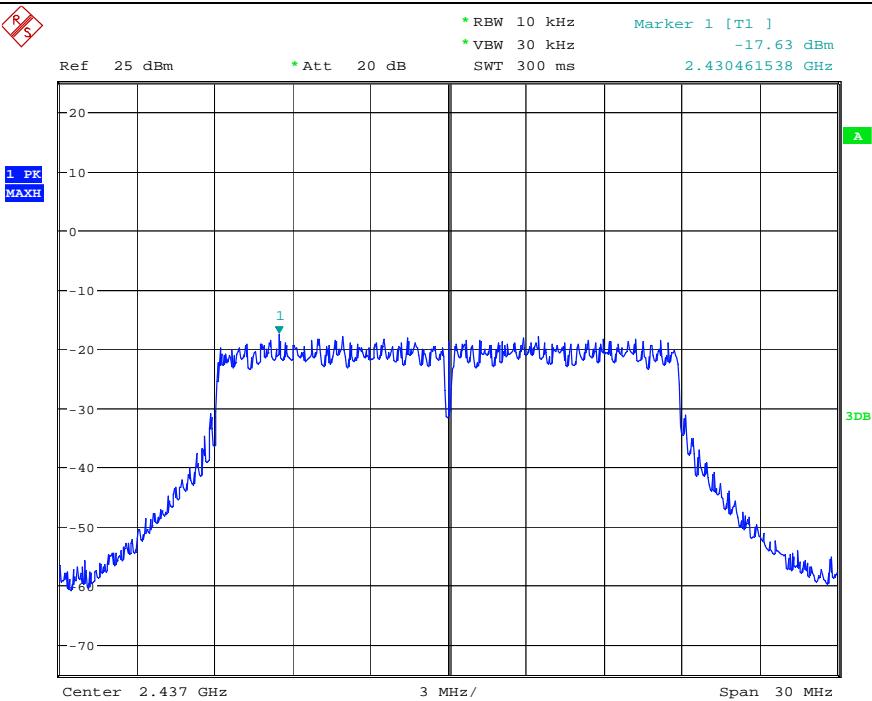
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802.11n HT20 Mode:

Low Channel



Middle Channel

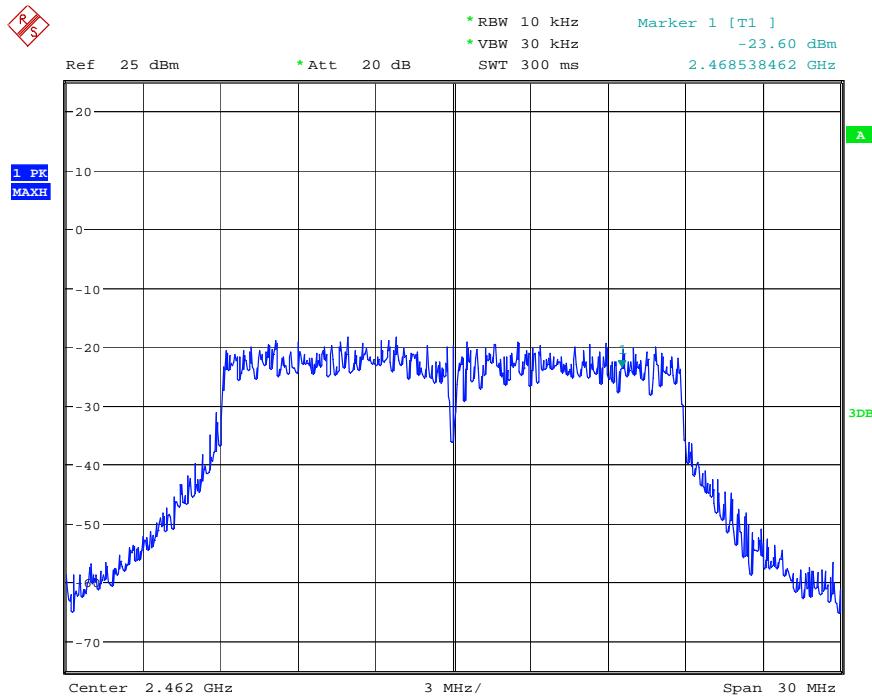


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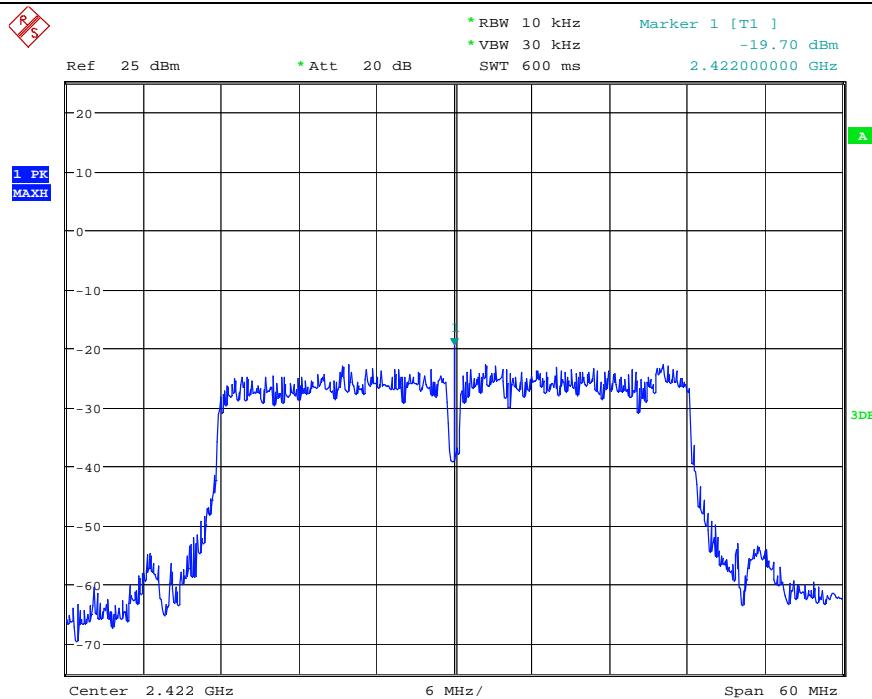
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High Channel



802.11n HT40 Mode:

Low Channel

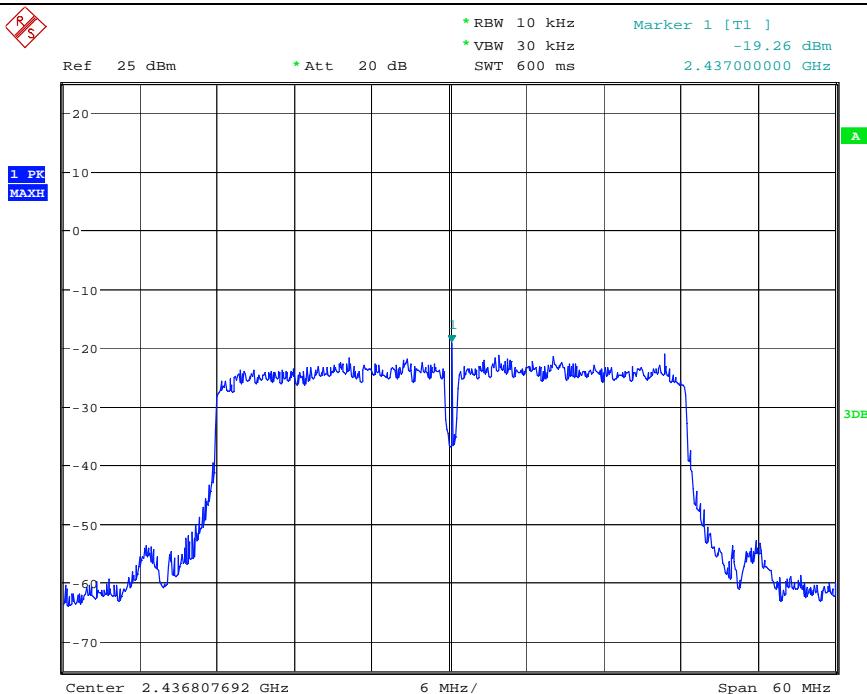


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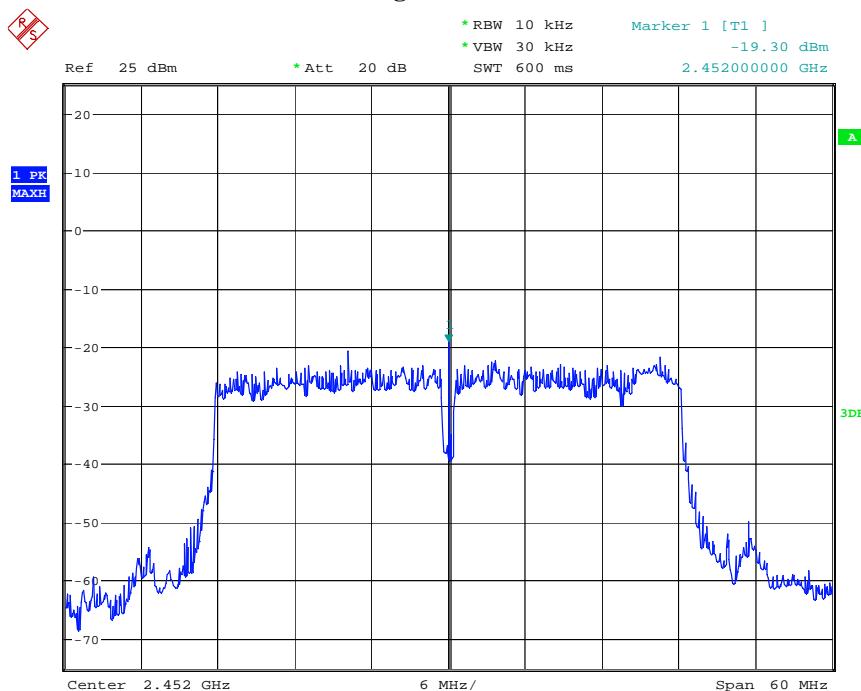
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Middle Channel



High Channel



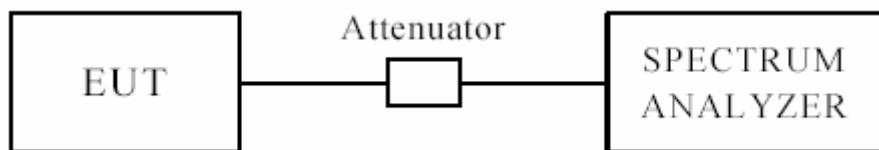
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10 Out of Band Measurement

10.1 Test Setup for band edge



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

10.2 Limits of Out of Band Emissions Measurement

1. Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

10.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of radiated emission test.(Peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector)

For bandage test, the spectrum set as follows: RBW=VBW=100 kHz. A conducted measurement used

10.4 Test Result

Please see next pages

Note: 1. this is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), after pre-test. It was found that the worse radiated emission was get at the lying position. the worse case was recorded

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Radiated measurement:

802.11b 1Mbps

Indicated		result PK/AV)	Table Angle Degree	Antenna		Correction Factor			FCC Part 15.247		
Frequency (MHz)	Receiver Reading (dB μ V/m)			Height (m)	Polar (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dB μ V/m)	Limit dB μ V/m)	Margin (dB)
Low Channel (2412MHz)											
2390	42.45	AV	90	1	V	30.3	4.1	33.1	43.75	54	10.25
2390	41.65	AV	90	1	H	30.3	4.1	33.1	42.95	54	11.05
2390	52.81	PK	180	2	V	30.3	4.1	33.1	54.11	74	19.89
2390	52.48	PK	90	1.5	H	30.3	4.1	33.1	53.78	74	20.22
High Channel (2462MHz)											
2483.5	41.18	AV	180	1	V	31	4.4	32.7	43.88	54	10.12
2483.5	41.52	AV	90	1	H	31	4.4	32.7	44.22	54	9.78
2483.5	51.14	PK	180	1.5	V	31	4.4	32.7	53.84	74	20.16
2483.5	47.65	PK	90	2	H	31	4.4	32.7	50.35	74	23.65

802.11g 6Mbps

Indicated		result (PK/AV)	Table Angle Degree	Antenna		Correction Factor			FCC Part 15.247		
Frequency (MHz)	Receiver Reading (dB μ V/m)			Height (m)	Polar (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dB μ V/m)	Limit dB μ V/m)	Margin (dB)
Low Channel (2412MHz)											
2390	42.35	AV	90	1	V	30.3	4.1	33.1	43.65	54	10.35
2390	43.41	AV	180	2	H	30.3	4.1	33.1	44.71	54	9.29
2390	55.36	PK	180	1	V	30.3	4.1	33.1	56.66	74	17.34
2390	55.42	PK	90	2	H	30.3	4.1	33.1	56.72	74	17.28
High Channel (2462MHz)											
2483.5	43.25	AV	180	1	V	31	4.4	32.7	45.95	54	8.05
2483.5	41.61	AV	90	2	H	31	4.4	32.7	44.31	54	9.69
2483.5	52.64	PK	180	1.5	V	31	4.4	32.7	55.34	74	18.66
2483.5	48.69	PK	90	2	H	31	4.4	32.7	57.39	74	16.61

Note: the BAND EDGE RESTRICTED BANDS emission is too low at least 20dB to the Fundamental.

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802.11n HT20 6.5Mbps

Indicated		result (PK/AV)	Table Angle Degree	Antenna		Correction Factor			FCC Part 15.247		
Frequency (MHz)	Receiver Reading (dB μ V/m)			Height (m)	Polar (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Low Channel (2422MHz)											
2390	43.61	AV	90	1	V	30.3	4.1	33.1	44.91	54	9.09
2390	44.48	AV	180	1.5	H	30.3	4.1	33.1	45.78	54	8.22
2390	54.21	PK	90	1	V	30.3	4.1	33.1	55.51	74	18.49
2390	54.69	PK	225	2	H	30.3	4.1	33.1	55.99	74	18.01
High Channel (2462MHz)											
2483.5	42.35	AV	90	1	V	31	4.4	32.7	45.05	54	8.95
2483.5	43.48	AV	90	1.5	H	31	4.4	32.7	46.18	54	7.82
2483.5	54.69	PK	180	1	V	31	4.4	32.7	57.39	74	16.61
2483.5	53.14	PK	90	2	H	31	4.4	32.7	55.84	74	18.16

Note: the BAND EDGE RESTRICTED BANDS emission is too low at least 20dB to the Fundamental.

802.11n HT40 13.5Mbps

Indicated		result (PK/AV)	Table Angle Degree	Antenna		Correction Factor			FCC Part 15.247		
Frequency (MHz)	Receiver Reading (dB μ V/m)			Height (m)	Polar (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Low Channel (2422MHz)											
2390	44.48	AV	180	1	V	30.3	4.1	33.1	45.78	54	8.22
2390	45.36	AV	90	2	H	30.3	4.1	33.1	46.66	54	7.34
2390	51.58	PK	90	1.5	V	30.3	4.1	33.1	55.88	74	18.12
2390	54.26	PK	180	1	H	30.3	4.1	33.1	55.56	74	18.44
High Channel (2452MHz)											
2483.5	42.36	AV	180	1	V	31	4.4	32.7	45.06	54	8.94
2483.5	43.48	AV	90	1.5	H	31	4.4	32.7	46.18	54	7.82
2483.5	54.84	PK	90	2	V	31	4.4	32.7	57.54	74	16.46
2483.5	53.15	PK	180	1	H	31	4.4	32.7	55.85	74	18.15

Note: the BAND EDGE RESTRICTED BANDS emission is too low at least 20dB to the Fundamental.

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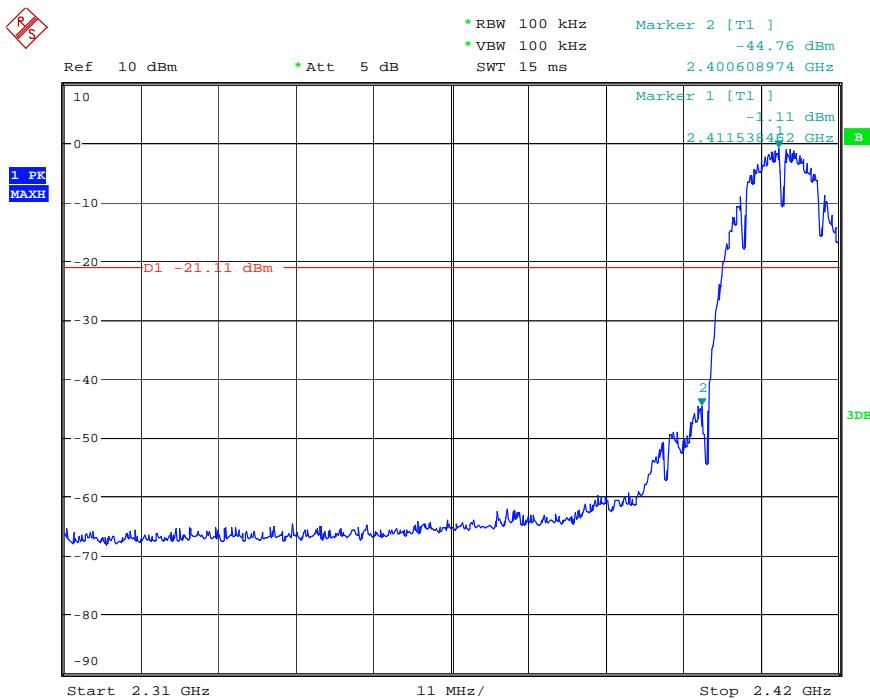
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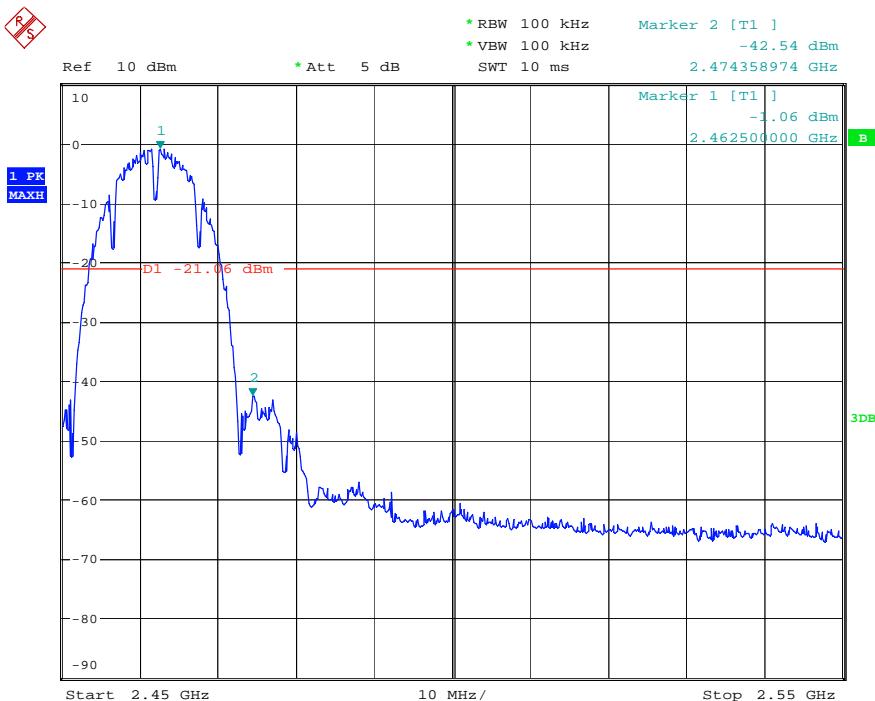
Conducted measurement:

802.11b 1Mbps

Low channel



High channel



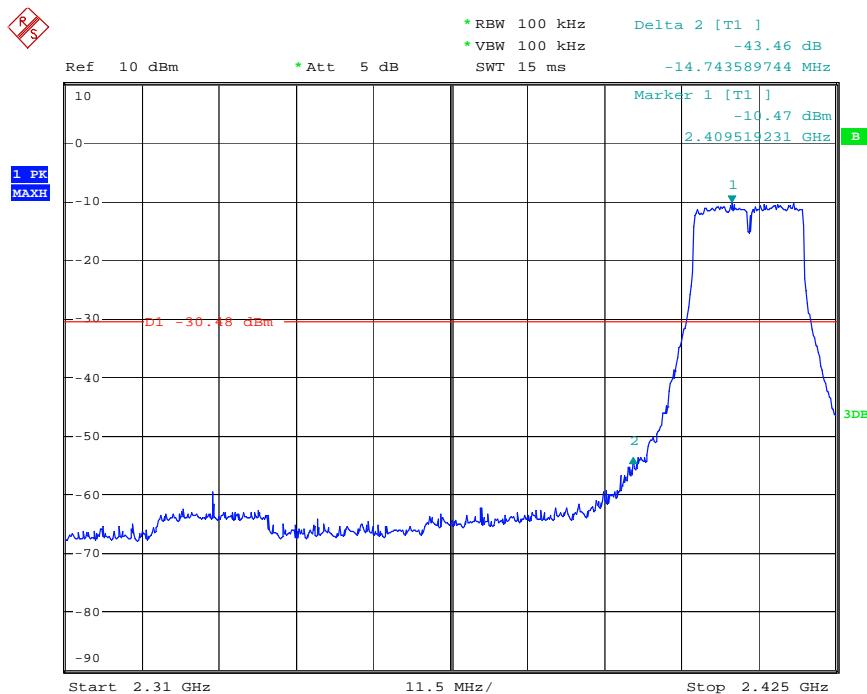
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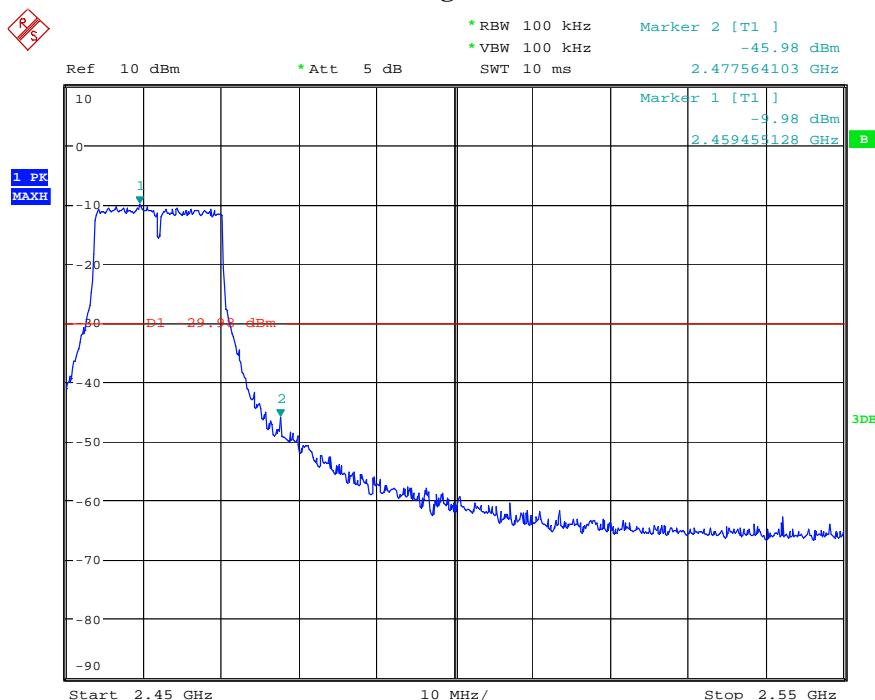
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802.11g 6Mbps

Low channel



High channel



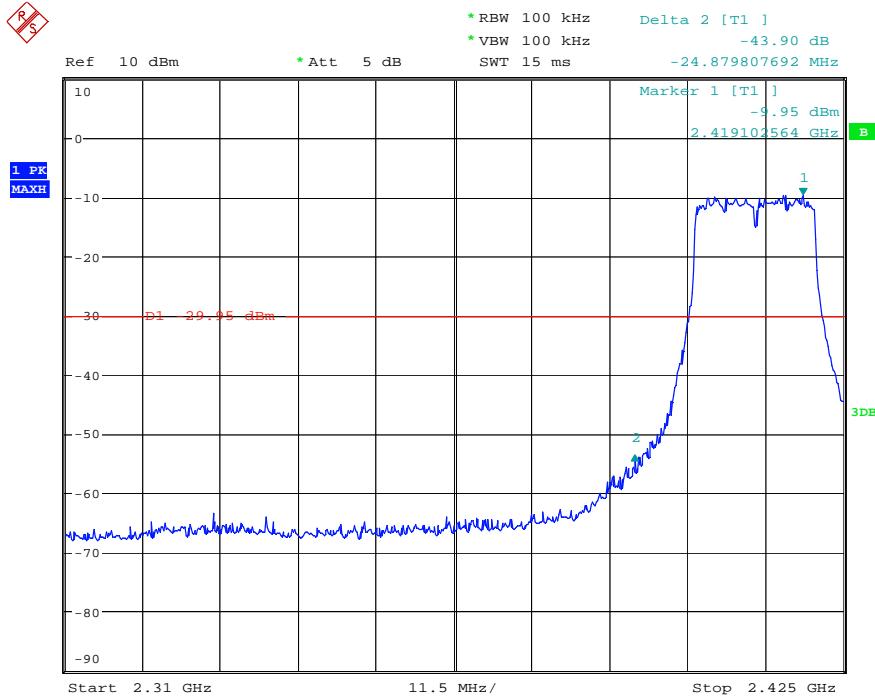
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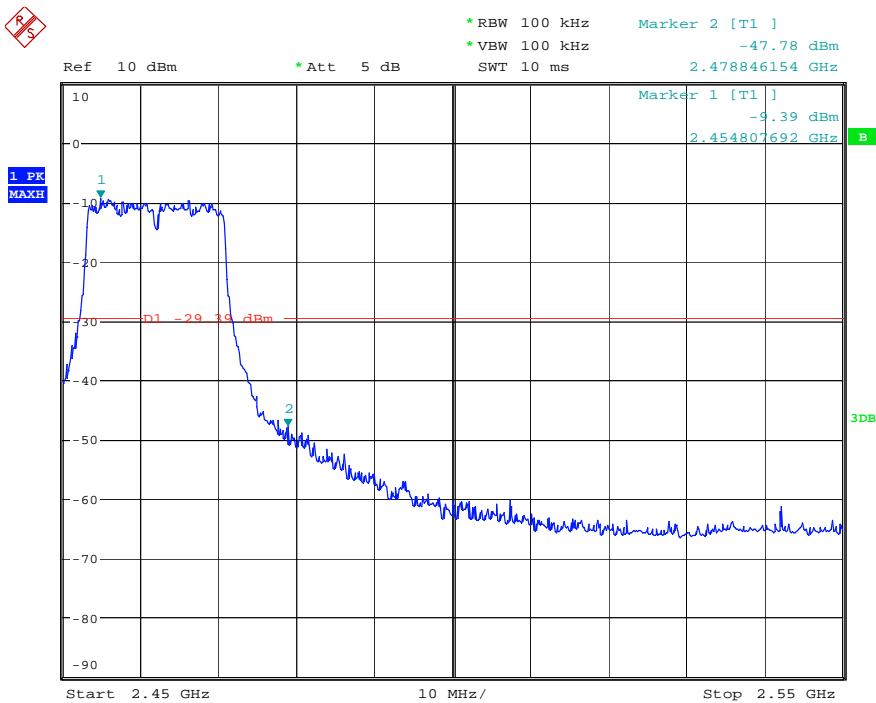
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802.11n_HT20 6.5Mbps

Low channel



High channel



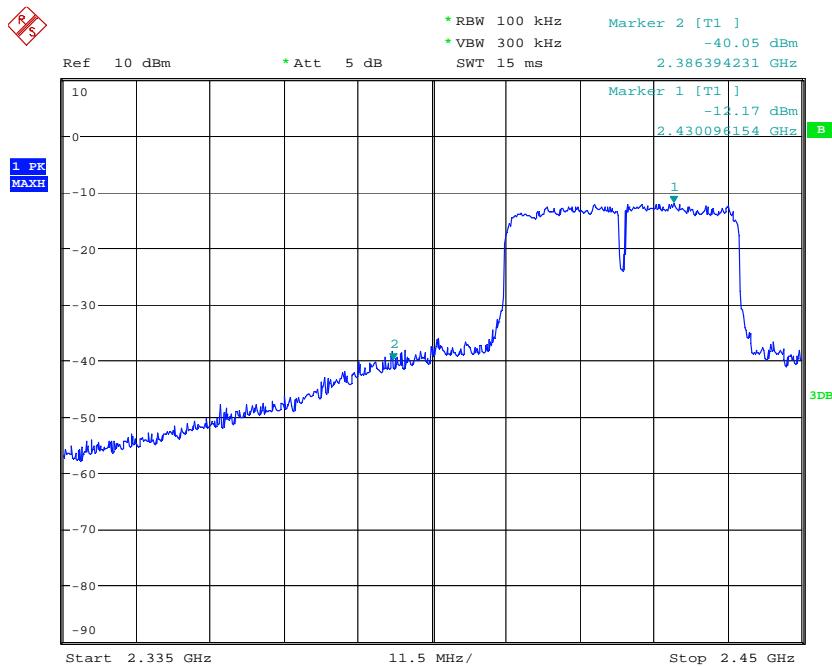
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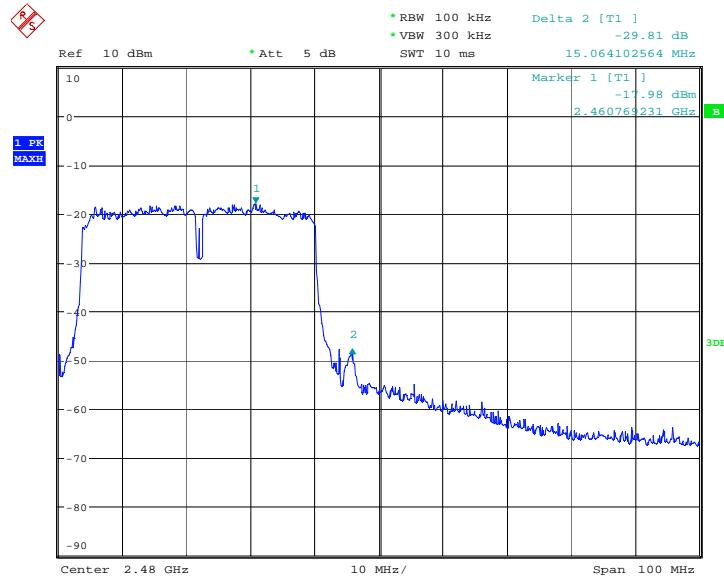
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802.11n_HT40 13.5Mbps

Low channel



High channel



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11.0 Antenna Requirement

11.1 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 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the mount in dB that the directional gain of the antenna exceeds 6 dBi.

11.2 Antenna Connected construction

PCB antenna used. The maximum Gain of the antennas is 0 dBi.

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12.0 FCC Label

FCC ID: 2ABKRA727

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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13.0 Photo of testing

Conducted Emission Test Setup:

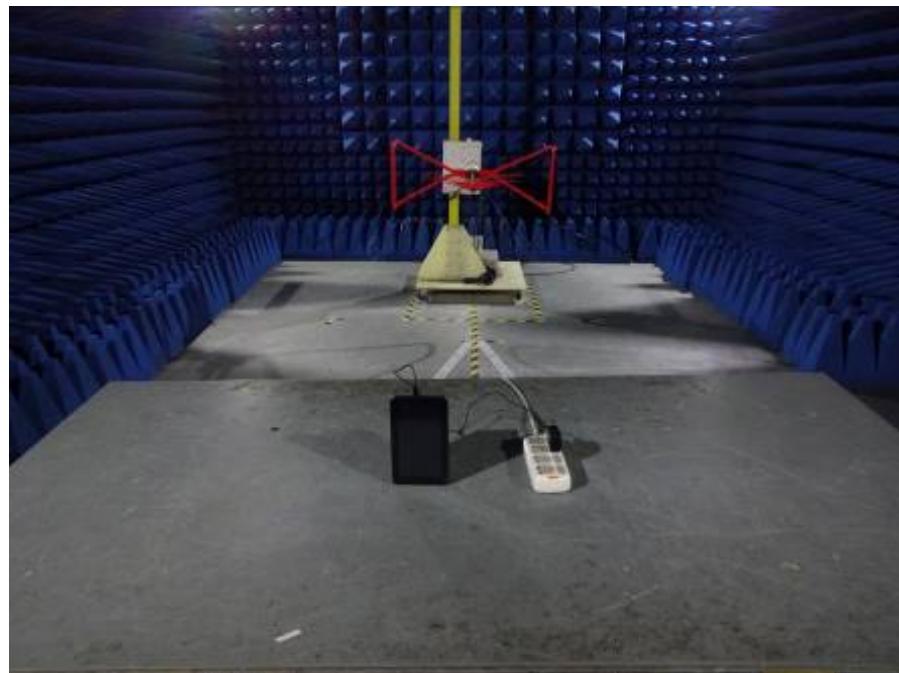


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Radiated Emission Test Setup:



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Photo for the EUT

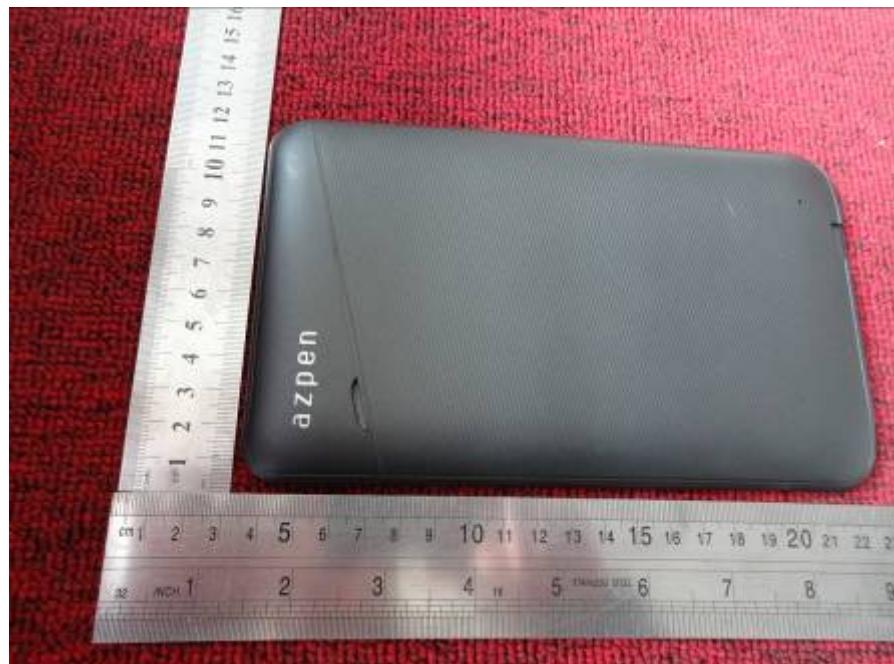


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Photos of EUT

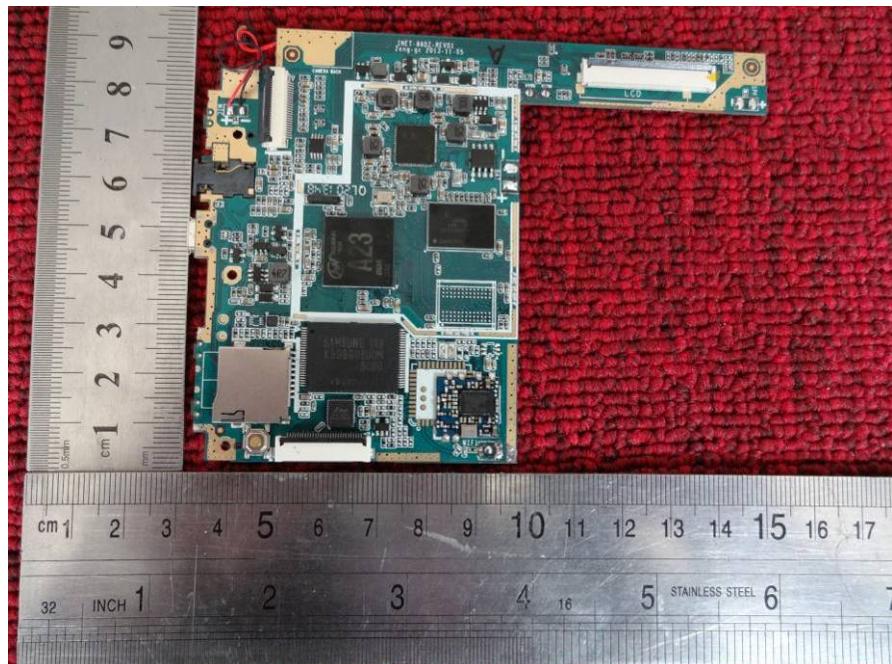
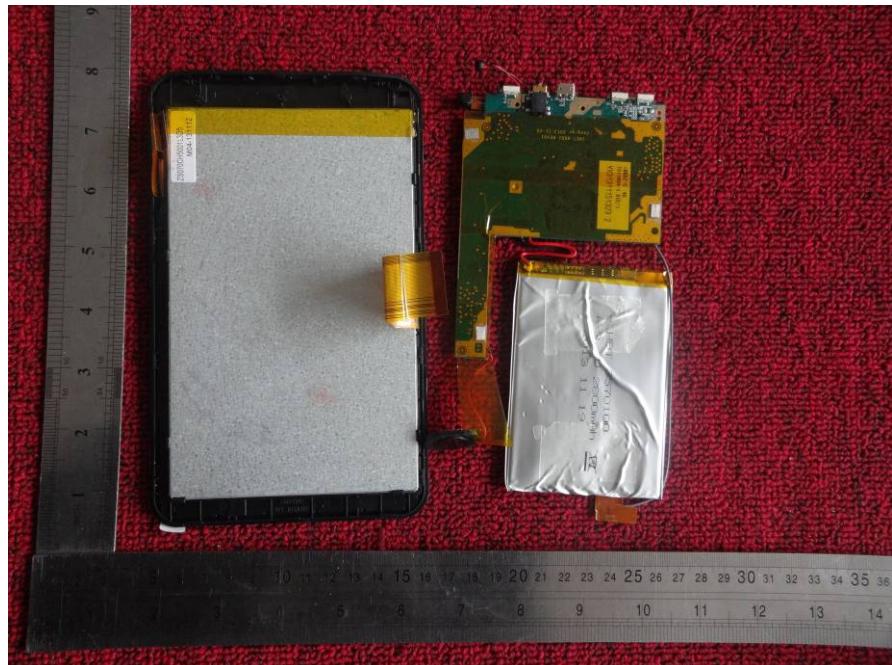


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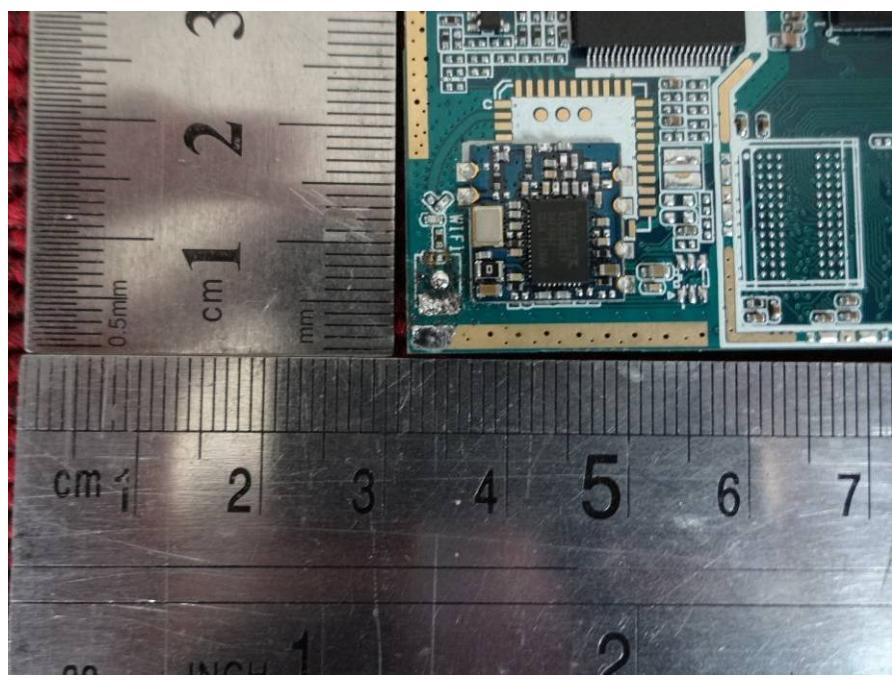


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End of the report

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