



	TE	ST REPORT
	Report Reference No	TRE1708020603 R/C: 48723
	FCC ID:	ZSW-30-052
	Applicant's name:	b mobile HK Limited
	Address	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 Kwai Tak Street; Kwai Chung; New Territories; Hong Kong.
	Manufacturer	b mobile HK Limited
	Address	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 Kwai Tak Street; Kwai Chung; New Territories; Hong Kong.
	Test item description:	Mobile Phone
	Trade Mark:	Bmobile
	Model/Type reference:	AX1015
	Listed Model(s)	
	Standard:	FCC CFR Title 47 Part 15 Subpart C Section 15.247
	Date of receipt of test sample	Aug.30, 2017
	Date of testing	Aug.31, 2017 - Sep.17, 2017
	Date of issue	Sep.18, 2017
	Result:	PASS
	Compiled by (position+printedname+signature):	File administrators Candy Liu
	Supervised by (position+printedname+signature):	Project Engineer Lion Cai Cron Car Howsty
	Approved by (position+printedname+signature):	RF Manager Hans Hu
	Testing Laboratory Name:	Shenzhen Huatongwei International Inspection Co., Ltd.
	Address:	1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China
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The test report merely correspond to the test sample.

Contents

<u>1.</u>	TEST STANDARDS AND REPORT VERSION	3
1.1.	Test Standards	3
1.2.	Report version	3
<u>2.</u>	TEST DESCRIPTION	4
<u>3.</u>	SUMMARY	5
3.1.	Client Information	5
3.2.	Product Description	5
3.3.	Operation state	6
3.4.	EUT configuration	6
3.5.	Modifications	6
<u>4.</u>	TEST ENVIRONMENT	7
4.1.	Address of the test laboratory	7
4.2.	Test Facility	7
4.3.	Environmental conditions	8
4.4.	Statement of the measurement uncertainty	8
4.5.	Equipments Used during the Test	9
<u>5.</u>	TEST CONDITIONS AND RESULTS	10
5.1.	Antenna requirement	10
5.2.	Conducted Emissions (AC Main)	11
5.3.	Conducted Peak Output Power	14
5.4.	Power Spectral Density	15
5.5.	6dB bandwidth	19
5.6.	Restricted band	23
5.7.	Band edge and Spurious Emissions (conducted)	36
5.8.	Spurious Emissions (radiated)	49
<u>6.</u>	TEST SETUP PHOTOS	56
<u>7.</u>	EXTERANAL AND INTERNAL PHOTOS	57

1. TEST STANDARDS AND REPORT VERSION

1.1. 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 C63.10:2013: American National Standard forTesting Unlicensed Wireless Devices

<u>KDB 558074 D01 DTS Meas Guidance v04:</u> Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating under §15.247

1.2. Report version

Version No.	Date of issue	Description
00	Sep.18, 2017	Original

2. TEST DESCRIPTION

Test Item	FCC Rule	Result	Test Engineer
Antenna requirement	15.203/15.247(c)	Pass	William Wang
Line Conducted Emissions (AC Main)	15.207	Pass	William Wang
Conducted Peak Output Power	15.247(b)(3)	Pass	William Wang
Power Spectral Density	15.247(e)	Pass	William Wang
6dB Bandwidth	15.247(a)(2)	Pass	William Wang
Restricted band	15.247(d)/15.205	Pass	William Wang
Spurious Emissions	15.247(d)/15.209	Pass	William Wang

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

Shenzhen Huatongwei International Inspection Co., Ltd.

3. <u>SUMMARY</u>

3.1. Client Information

Applicant:	b mobile HK Limited
Address:	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 Kwai Tak Street; Kwai Chung; New Territories; Hong Kong.
Manufacturer:	b mobile HK Limited
Address:	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 Kwai Tak Street; Kwai Chung; New Territories; Hong Kong.

3.2. Product Description

Name of EUT:	Mobile Phone
Trade Mark:	Bmobile
Model No.:	AX1015
Listed Model(s):	-
IMEI 1:	867400020316612
IMEI 2:	867400020316620
Power supply:	DC 3.7V From exchange battery
Adapter information:	Input: 100-240Va.c., 50/60Hz, 0.2A Output: 5Vd.c., 500mA
Hardware version:	S3215-C01
Software version:	Bmobile_AX1015_TIGO_V004
WIFI	
Supported type:	802.11b/802.11g/802.11n(HT20)
Modulation:	DSSS for 802.11b OFDM for 802.11g/802.11n(HT20)
Operation frequency:	2412MHz~2462MHz
Channel number:	11
Channel separation:	5MHz
Antenna type:	PIFA Antenna
Antenna gain:	0.8 dBi

3.3. Operation state

Test frequency list

According to section 15.31(m), regards to the operating frequency range over 10 MHz, must select three channel which were tested. the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, please see the above gray bottom.

802.11b/g/n(HT20)			
Channel	Frequency (MHz)		
01	2412		
02	2417		
03	2422		
04	2427		
05	2432		
06	2437		
07	2442		
08	2447		
09	2452		
10	2457		
11	2462		

> <u>Test mode</u>

For RF test items

The engineering test program was provided and enabled to make EUT continuous transmit (duty cycle>98%).

For AC power line conducted emissions:

The EUT was set to connect with the WLAN AP under large package sizes transmission.

For RF test axis

EUT in each of three orthogonal axis emissions had been tested ,but only the worst case (X axis) data Recorded in the report.

3.4. EUT configuration

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

- supplied by the manufacturer

0	- supplied by the lab		
0	1	Manufacturer:	/
0		Model No.:	/
0		Manufacturer:	/
0	7	Model No.:	/

3.5. Modifications

No modifications were implemented to meet testing criteria.

4. TEST ENVIRONMENT

4.1. Address of the test laboratory

Laboratory: Shenzhen Huatongwei International Inspection Co., Ltd.

Address: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China

4.2. Test Facility

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/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 3902.01

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.

FCC-Registration No.: 762235

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.

IC-Registration No.:5377B-1

Two 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.: 5377B-1.

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.

4.3. Environmental conditions

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

Temperature:	15~35°C	
Relative Humidity:	30~60 %	
Air Pressure:	950~1050mba	

4.4. 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 in calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report according to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2" and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd. quality system according to 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.

Here after the best measurement capability for Shenzhen Huatongwei International Inspection Co., Ltd. is reported:

Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.57 dB	(1)
Transmitter power Radiated	2.20 dB	(1)
Conducted spurious emissions 9kHz~40GHz	1.60 dB	(1)
Radiated spurious emissions 9kHz~40GHz	2.20 dB	(1)
Conducted Emissions 9kHz~30MHz	3.39 dB	(1)
Radiated Emissions 30~1000MHz	4.24 dB	(1)
Radiated Emissions 1~18GHz	5.16 dB	(1)
Radiated Emissions 18~40GHz	5.54 dB	(1)

 This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

4.5. Equipments Used during the Test

Condu	Conducted Emissions				
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Artificial Mains	Rohde&Schwarz	ESH2-Z5	100028	2016/11/13
2	EMI Test Receiver	Rohde&Schwarz	ESCI3	100038	2016/11/13
3	Pulse Limiter	Rohde&Schwarz	ESHSZ2	100044	2016/11/13
4	EMI Test Software	Rohde&Schwarz	ES-K1 V1.71	-	-

Radia	Radiated Emissions				
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI test receiver	Rohde&Schwarz	ESI 26	100009	2016/11/13
2	Loop Antenna	Rohde&Schwarz	HFH2-Z2	100020	2016/11/13
3	Ultra-Broadband Antenna	ShwarzBeck	VULB9163	538	2016/11/13
4	Horn antenna	ShwarzBeck	9120D	1011	2016/11/13
5	Horn Antenna	SCHWARZBECK	BBHA9170	25841	2016/11/13
6	Amplifier	Sonoma	310N	E009-13	2016/11/13
7	JS Amplifier	Rohde&Schwarz	JS4-00101800- 28-5A	F201504	2016/11/13
8	Amplifier	Compliance Direction systems	PAP1-4060	120	2016/11/13
9	High pass filter	Compliance Direction systems	BSU-6	34202	2016/11/13
10	EMI test Software	Rohde&Schwarz	ESK1	-	-
11	EMI test Software	Audix	E3	-	-
12	TURNTABLE	MATURO	TT2.0	-	-
13	ANTENNA MAST	MATURO	TAM-4.0-P	-	-

RF Conducted methods										
Item	Test Equipment	Manufacturer	Model No. Serial No.		Last Cal.					
1	Spectrum Analyzer	Rohde&Schwarz	FSP	1164.4391.40	2016/11/13					
2	MXA Signal Analyzer	Agilent Technologies	N9020A	MY5050187	2016/11/13					

The Cal.Interval was one year.

5. TEST CONDITIONS AND RESULTS

5.1. Antenna requirement <u>REQUIREMENT:</u>

FCC CFR Title 47 Part 15 Subpart C 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. The use of a permanently attached antenna or of anantenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

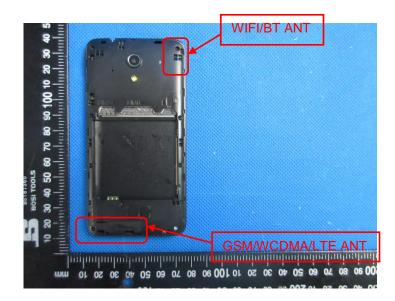
FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(i) Systems operating in the 2400~2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

TEST RESULTS

☑ Passed □ Not Applicable

The directional gain of the antenna less than 6 dBi, please refer to the below antenna photo.



5.2. Conducted Emissions (AC Main)

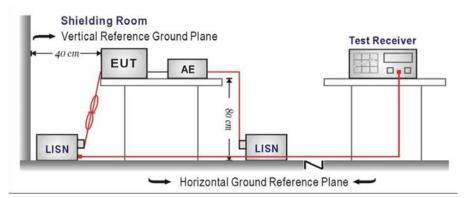
<u>LIMIT</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.207:

	Limit (dBuV)				
Frequency range (MHz)	Quasi-peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30	60	50			

* Decreases with the logarithm of the frequency.

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was setup according to ANSI C63.10:2013 requirements.
- The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
- 3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment.
- 4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
- 5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor,was individually connected through a LISN to the input power source.
- 6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- Conducted Emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
- 8. During the above scans, the emissions were maximized by cable manipulation.

TEST MODE:

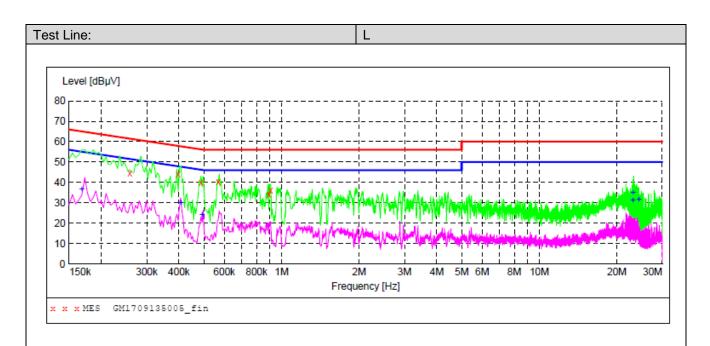
Please refer to the clause 3.3

TEST RESULTS

☑ Passed □ Not Applicable

Note:

- 1) Transd=Cable lose+ Pulse Limiter Factor + Artificial Mains Factor
- 2) Margin= Limit -Level

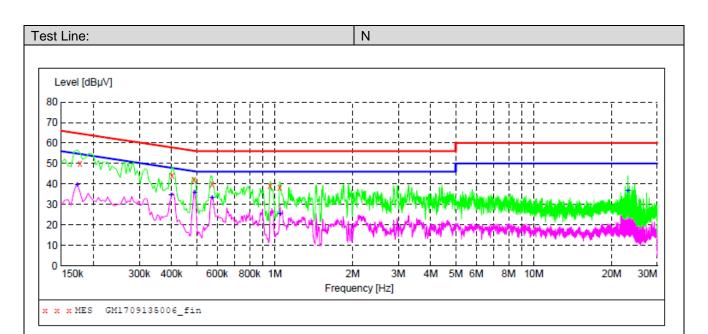


MEASUREMENT RESULT: "GM1709135005_fin"

9/13/2017 9:42AM Frequency Level Transd Limit Margin Detector Line PE MHz dBµV dB dBµV dB 0.25800044.6010.36216.9QP0.39750044.2010.25813.7QP0.48750039.9010.25616.3QP0.56850040.2010.25615.8QP0.89250034.2010.15621.8QP0.90600036.3010.15619.7QP GND ь1 ь1 GND ь1 GND ь1 GND L1 GND ь1 GND

MEASUREMENT RESULT: "GM1709135005_fin2"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.168000	36.60	10.4	55	18.5	AV	L1	GND
0.406500	29.70	10.2	48	18.0	AV	ь1	GND
0.492000	24.00	10.2	46	22.1	AV	ь1	GND
23.064000	31.00	10.7	50	19.0	AV	ь1	GND
23.127000	35.00	10.7	50	15.0	AV	ь1	GND
24.346500	31.60	10.7	50	18.4	AV	L1	GND



MEASUREMENT RESULT: "GM1709135006_fin"

9/13/2017 9:45AM Frequency Level Transd Limit Margin Detector Line dB dBµV dBµV MHz dB 0.177000 50.10 10.4 65 14.5 QP 10.2 58 10.2 56 10.2 56 13.6 QP 0.402000 44.20 0.487500 41.90 14.3 QP 16.2 QP 0.573000 39.80 10.2 56 10.2 56 10.2 56 16.9 QP 17.7 QP 0.960000 39.10

MEASUREMENT RESULT: "GM1709135006 fin2"

38.30

1.045500

PE	Line	Detector	Margin dB	Limit dBµV	Transd dB	Level dBµV	Frequency MHz
GND	N	AV	15.3	55	10.4	39.50	0.172500
GND	N	AV	13.6	48	10.2	34.30	0.397500
GND	N	AV	10.2	46	10.2	35.90	0.492000
GND	N	AV	12.7	46	10.2	33.30	0.573000
GND	N	AV	20.6	46	10.2	25.40	1.045500
GND	N	AV	13.3	50	10.7	36.70	23.127000

PE

GND

GND

GND

GND

GND

GND

Ν

Ν

Ν

Ν

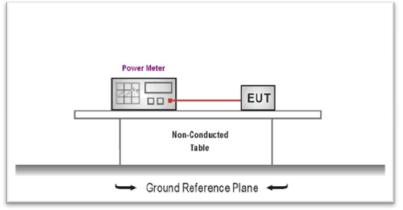
N

N

5.3. Conducted Peak Output Power LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3): **30dBm**:

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was tested according to ANSI C63.10: 2013 and KDB 558074 D01 for compliance to FCC 47 CFR 15.247 requirements.
- 2. The maximum peak conducted output power may be measured using a broadband peak RF power meter.
- 3. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector
- 4. Record the measurement data.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

🖂 Passed 🛛 🗌 N

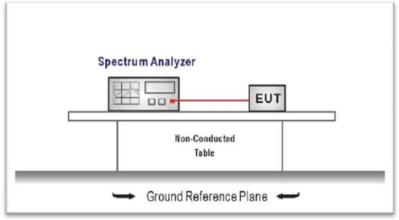
Not Applicable

Туре	Channel	Output power (dBm)	Limit (dBm)	Result	
	01	18.23			
802.11b	06	18.23	≤30.00	Pass	
	11	18.23			
	01	17.05			
802.11g	06	17.05	≤30.00	Pass	
	11	17.05			
	01	15.95			
802.11n(HT20)	06	15.91	≤30.00	Pass	
	11	15.52			

5.4. Power Spectral Density LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e):For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

TEST CONFIGURATION



TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input,
- Configure the spectrum analyzer as shown below: Center frequency=DTS channel center frequency Span =1.5 times the DTS bandwidth RBW = 3 kHz ≤ RBW ≤ 100 kHz, VBW ≥ 3 × RBW Sweep time = auto couple Detector = peak Trace mode = max hold
- 3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter wave form on the spectrum analyzer.
- 4. Use the peak marker function to determine the maximum amplitude level within the RBW.
- 5. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST MODE:

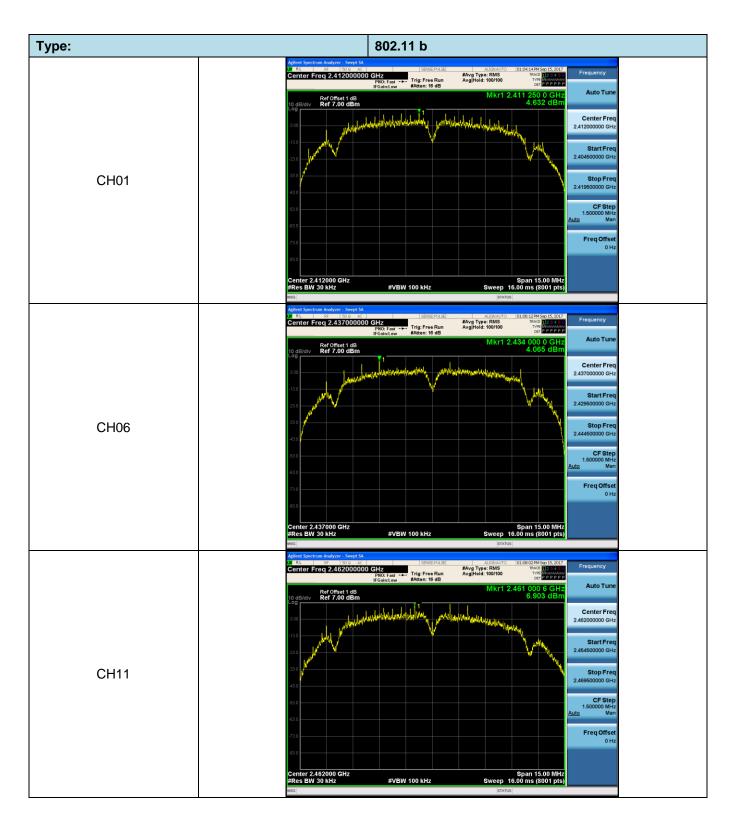
Please refer to the clause 3.3

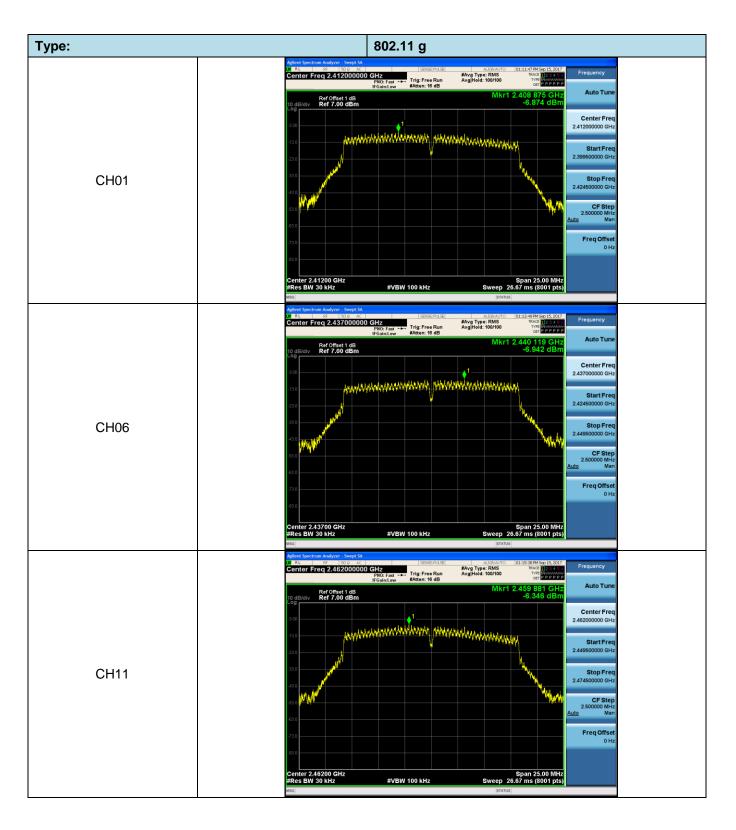
TEST RESULTS

☑ Passed □ Not Applicable

Туре	Channel	Power Spectral Density (dBm/RBW)	Limit (dBm/RBW)	Result	
	01	4.632			
802.11b	06	4.065	≤8.00	Pass	
	11	6.903			
	01	-6.874			
802.11g	06	-6.942	≤8.00	Pass	
	11	-6.346			
	01	-6.932			
802.11n(HT20)	06	-8.815	≤8.00	Pass	
	11	-7.149			

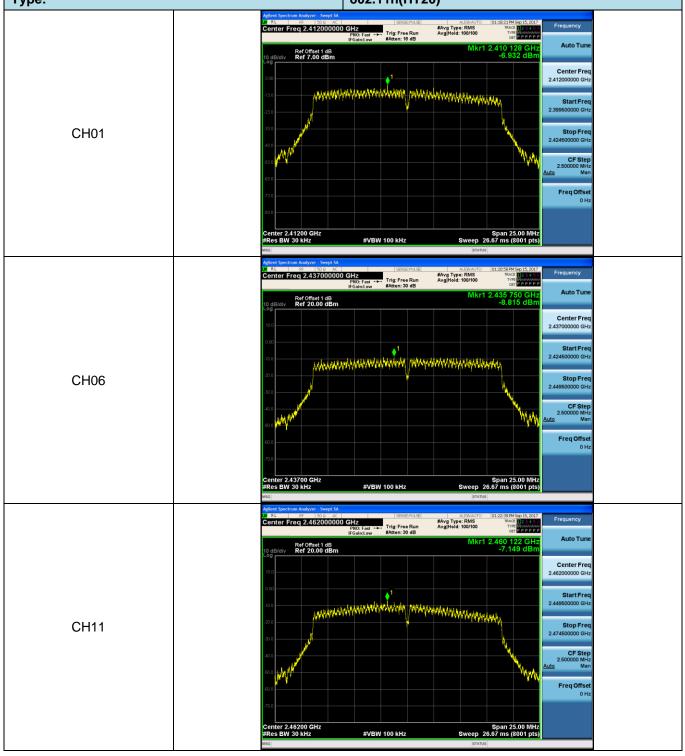
Test plot as follows:







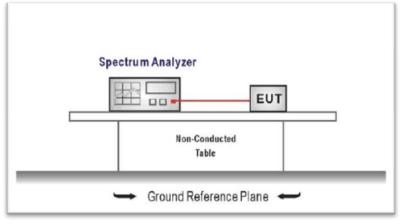
802.11n(HT20)



5.5. 6dB bandwidth

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2):For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

TEST CONFIGURATION



TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- 2. Configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).

Center Frequency =DTS channel center frequency Span=2 x DTS bandwidth RBW = 100 kHz, VBW \ge 3 × RBW Sweep time= auto couple Detector = Peak Trace mode = max hold

- 3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter wave form on the spectrum analyzer.
- 4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission, and record the pertinent measurements.

TEST MODE:

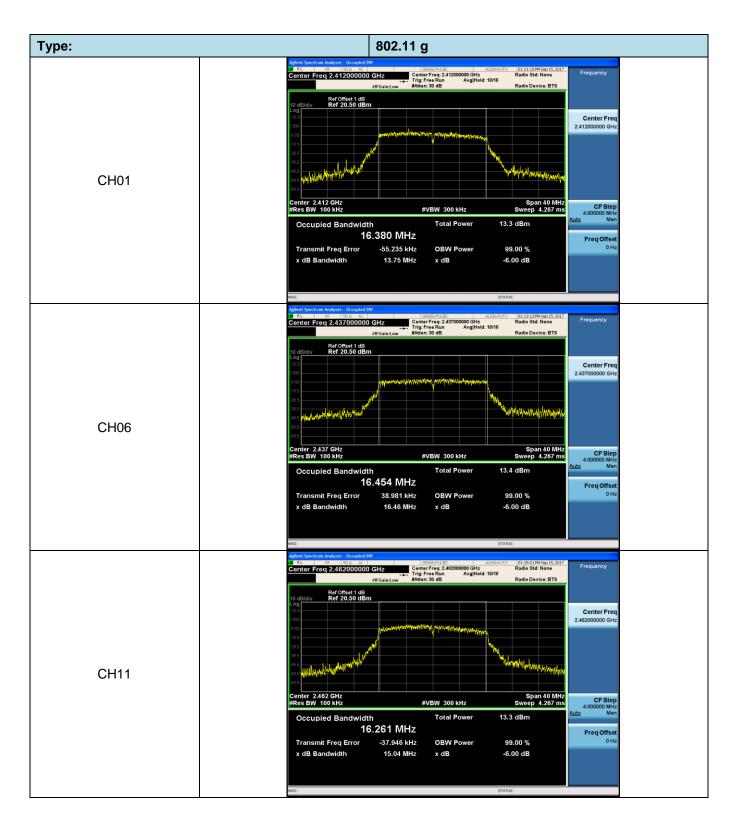
Please refer to the clause 3.3

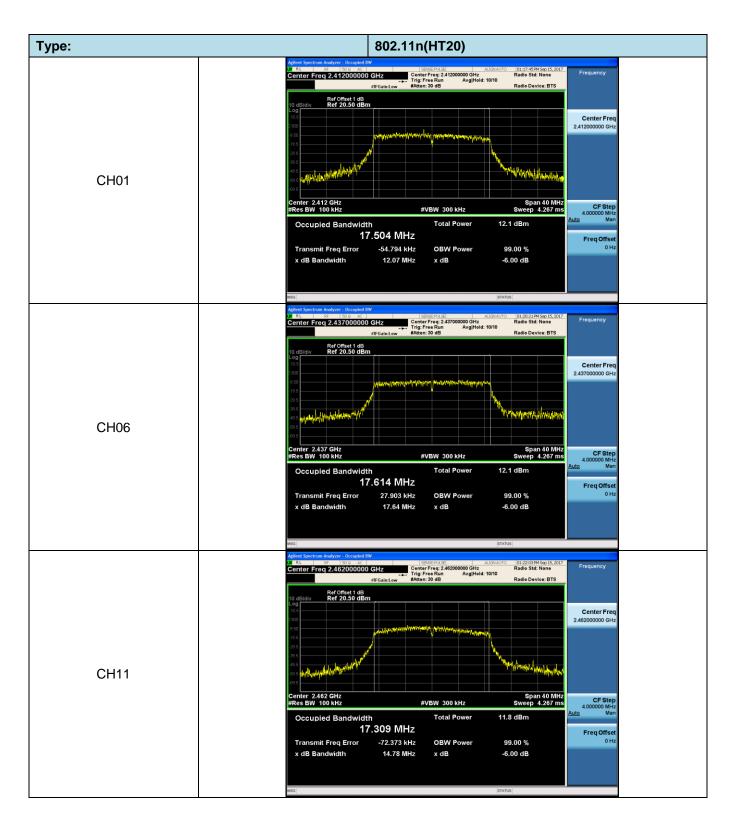
TEST RESULTS

_					
Туре	Channel	6dB Bandwidth (MHz)	Limit (kHz)	Result	
	01	9.26			
802.11b	06	7.85	≥500	Pass	
	11	7.54			
	01	13.75		Pass	
802.11g	06	16.46	≥500		
	11	15.04			
	01	12.07			
802.11n(HT20)	06	17.64	≥500	Pass	
	11	14.78			

Test plot as follows:





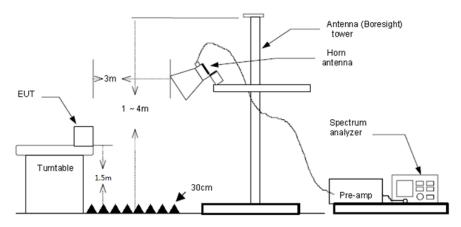


5.6. Restricted band

<u>LIMIT</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, Radiated Emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the Radiated Emissions limits specified in §15.209(a) (see §15.205(c)).

TEST CONFIGURATION



TEST PROCEDURE

- 1) The EUT was setup and tested according to ANSI C63.10:2013 for compliance to FCC 47CFR 15.247 requirements.
- 2) The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3) The EUT waspositioned such that the distance from antenna to the EUT was 3 meters.
- 4) The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find themaximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.
- The receiver set as follow: RBW=1MHz, VBW=3MHz PEAK detector for Peak value. RBW=1MHz, VBW=3MHz RMS detector for Average value.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☑ Passed □ Not Applicable

Note:

1) Final level= Read level + Antenna Factor+ Cable Loss- Preamp Factor

802.11b					CH01				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
2310.00	16.97	28.05	6.62	0.00	51.64	74.00	-22.36	Vertical	Peak
2390.00	17.00	27.65	6.75	0.00	51.40	74.00	-22.60	Vertical	Peak
2310.00	17.04	28.05	6.62	0.00	51.71	74.00	-22.29	Horizontal	Peak
2390.00	16.22	27.65	6.75	0.00	50.62	74.00	-23.38	Horizontal	Peak

802.11b					CH11				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
2483.50	16.12	27.26	6.83	0.00	50.21	74.00	-23.79	Vertical	Peak
2500.00	16.69	27.20	6.84	0.00	50.73	74.00	-23.27	Vertical	Peak
2483.50	17.42	27.26	6.83	0.00	51.51	74.00	-22.49	Horizontal	Peak
2500.00	16.38	27.20	6.84	0.00	50.42	74.00	-23.58	Horizontal	Peak

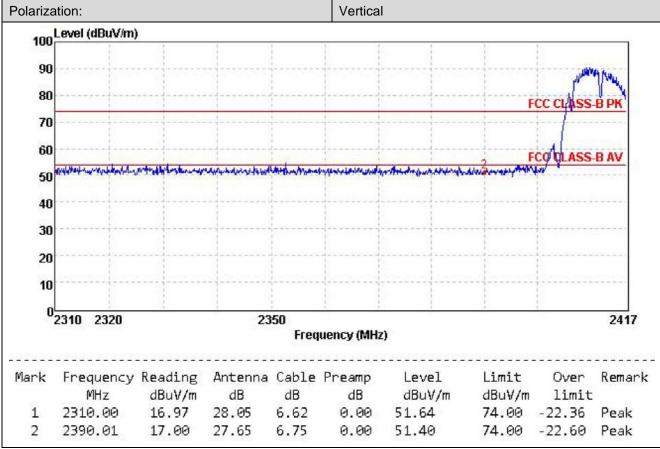
802.11g					CH01				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
2310.00	16.81	28.05	6.62	0.00	51.48	74.00	-22.52	Vertical	Peak
2390.00	17.41	27.65	6.75	0.00	51.81	74.00	-22.19	Vertical	Peak
2310.00	17.29	28.05	6.62	0.00	51.96	74.00	-22.04	Horizontal	Peak
2390.00	17.78	27.65	6.75	0.00	52.18	74.00	-21.82	Horizontal	Peak
2310.00	11.71	28.05	6.62	0.00	46.38	54.00	-7.62	Vertical	Average
2390.00	11.25	27.65	6.75	0.00	45.65	54.00	-8.35	Vertical	Average
2310.00	11.69	28.05	6.62	0.00	46.36	54.00	-7.64	Horizontal	Average
2390.00	11.24	27.65	6.75	0.00	45.64	54.00	-8.36	Horizontal	Average

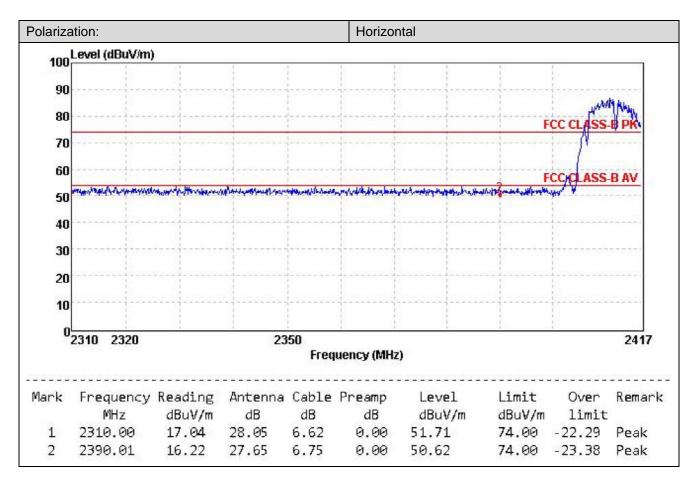
802.11g					CH11				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
2483.50	16.80	27.26	6.83	0.00	50.89	74.00	-23.11	Vertical	Peak
2500.00	16.67	27.20	6.84	0.00	50.71	74.00	-23.29	Vertical	Peak
2483.50	16.90	27.26	6.83	0.00	50.99	74.00	-23.01	Horizontal	Peak
2500.00	18.05	27.20	6.84	0.00	52.09	74.00	-21.91	Horizontal	Peak
2483.50	11.28	27.26	6.83	0.00	45.37	54.00	-8.63	Vertical	Average
2500.00	11.21	27.20	6.84	0.00	45.25	54.00	-8.75	Vertical	Average
2483.50	11.27	27.26	6.83	0.00	45.36	54.00	-8.64	Horizontal	Average
2500.00	11.26	27.20	6.84	0.00	45.30	54.00	-8.70	Horizontal	Average

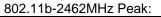
802.11n(HT	20)				CH01				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
2310.00	16.81	28.05	6.62	0.00	51.48	74.00	-22.52	Vertical	Peak
2390.00	17.41	27.65	6.75	0.00	51.81	74.00	-22.19	Vertical	Peak
2310.00	17.29	28.05	6.62	0.00	51.96	74.00	-22.04	Horizontal	Peak
2390.00	17.78	27.65	6.75	0.00	52.18	74.00	-21.82	Horizontal	Peak
2310.00	11.71	28.05	6.62	0.00	46.38	54.00	-7.62	Vertical	Average
2390.00	11.25	27.65	6.75	0.00	45.65	54.00	-8.35	Vertical	Average
2310.00	11.69	28.05	6.62	0.00	46.36	54.00	-7.64	Horizontal	Average
2390.00	11.24	27.65	6.75	0.00	45.64	54.00	-8.36	Horizontal	Average

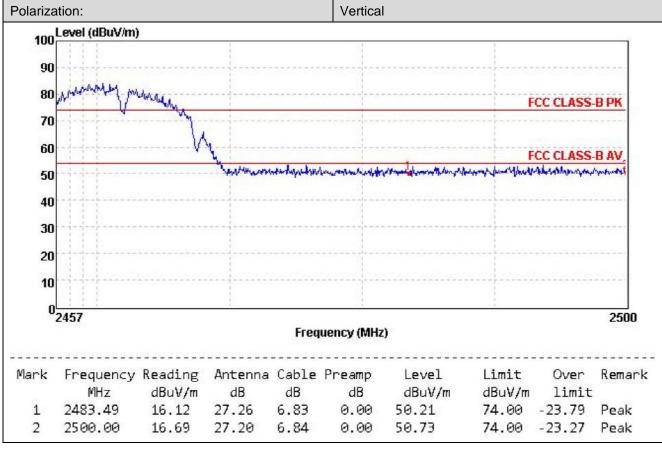
802.11n(HT		CH11							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
2483.50	16.80	27.26	6.83	0.00	50.89	74.00	-23.11	Vertical	Peak
2500.00	16.67	27.20	6.84	0.00	50.71	74.00	-23.29	Vertical	Peak
2486.94	17.51	27.25	6.83	0.00	51.59	74.00	-22.41	Horizontal	Peak
2500.00	16.67	27.20	6.84	0.00	50.71	74.00	-23.29	Horizontal	Peak
2483.50	11.28	27.26	6.83	0.00	45.37	54.00	-8.63	Vertical	Average
2500.00	11.21	27.20	6.84	0.00	45.25	54.00	-8.75	Vertical	Average
2483.50	11.27	27.26	6.83	0.00	45.36	54.00	-8.64	Horizontal	Average
2500.00	11.26	27.20	6.84	0.00	45.30	54.00	-8.70	Horizontal	Average

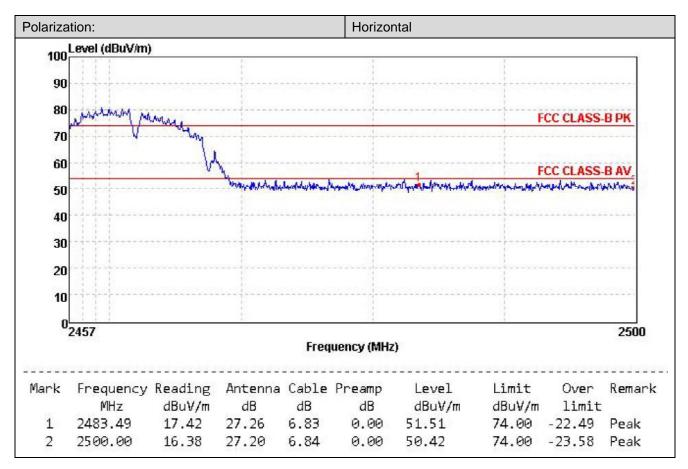




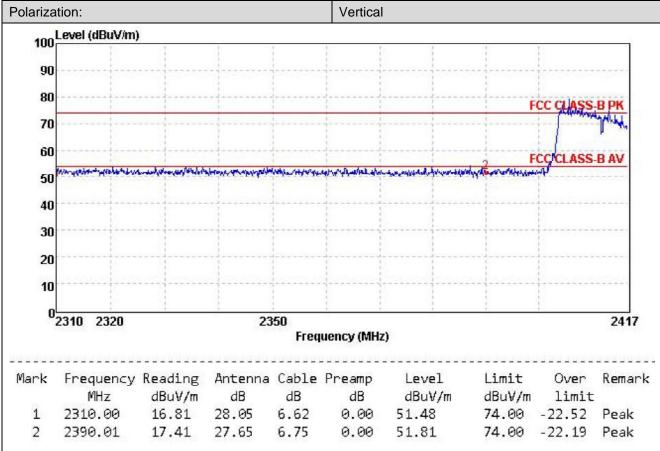


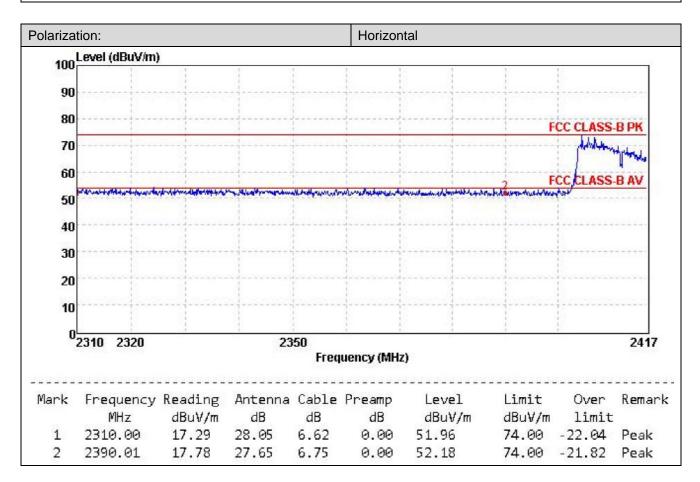




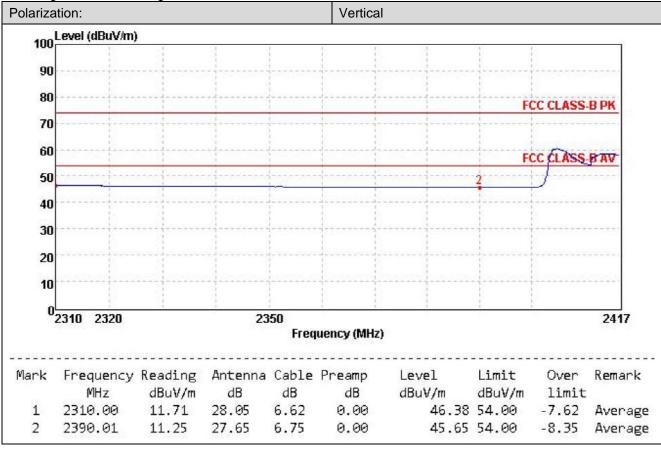


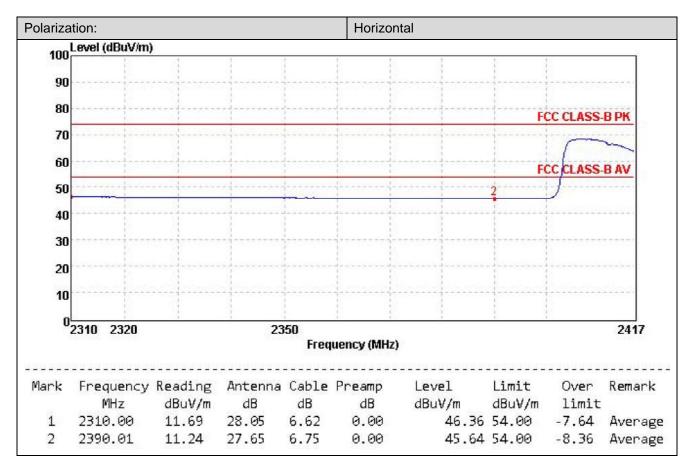


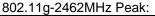


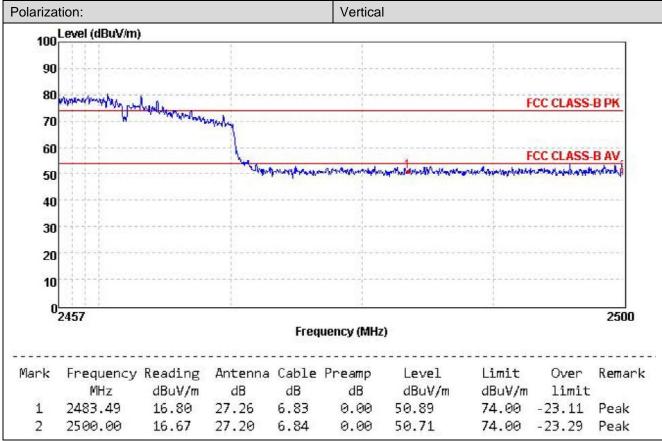


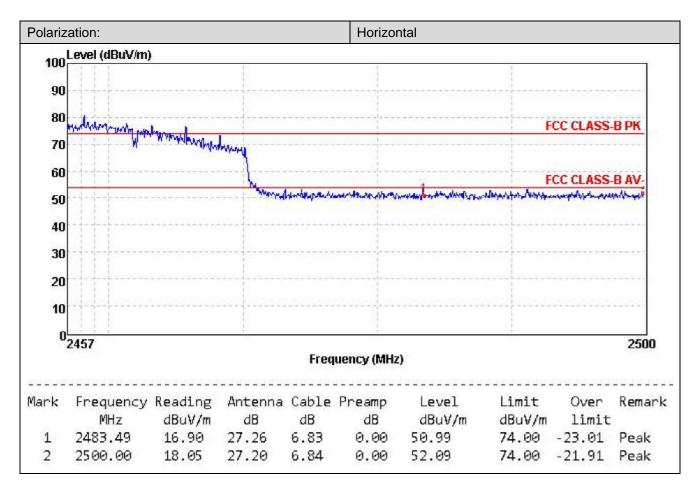




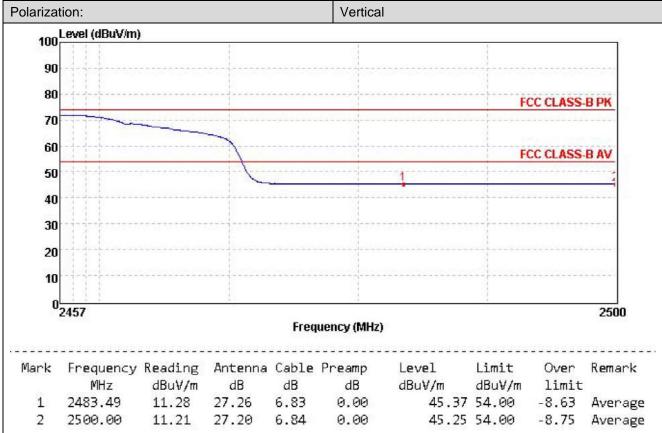


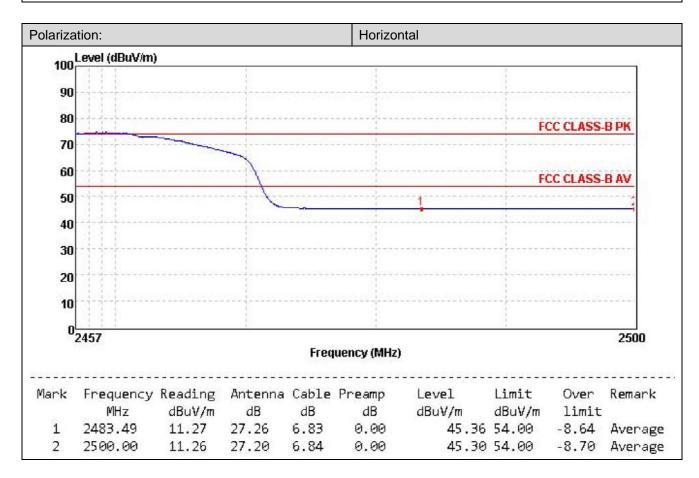


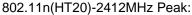


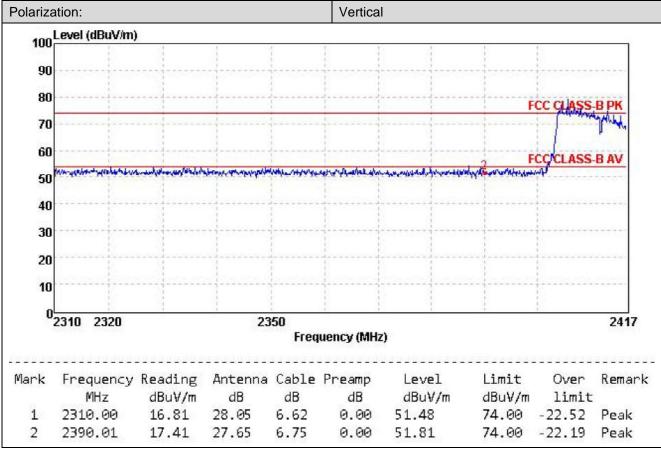


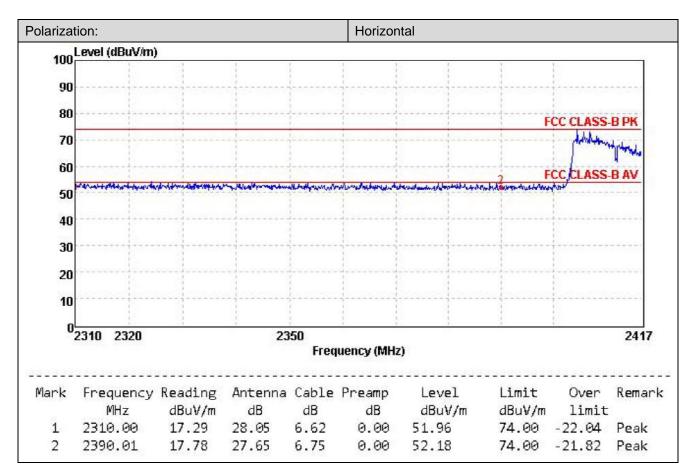
802.11g-2462MHz Average:



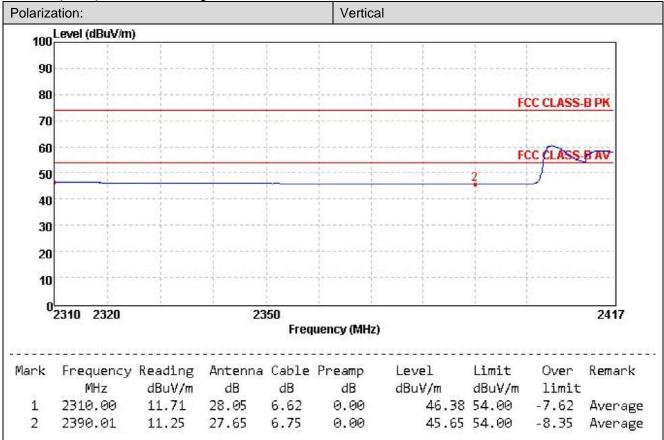


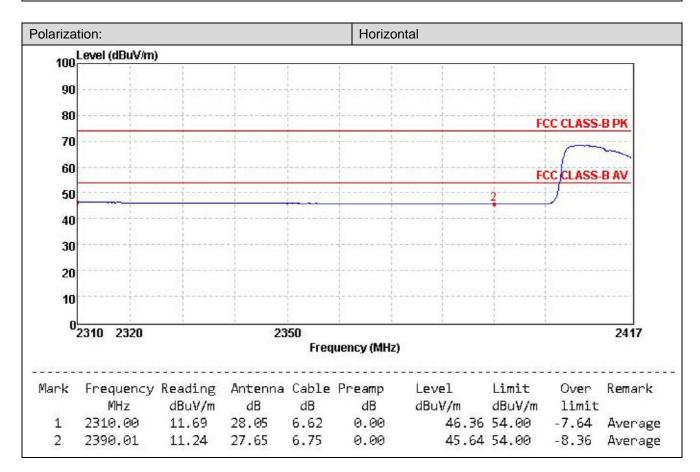




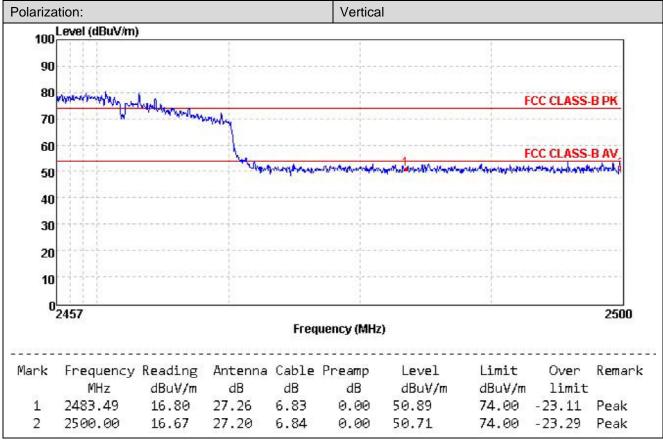


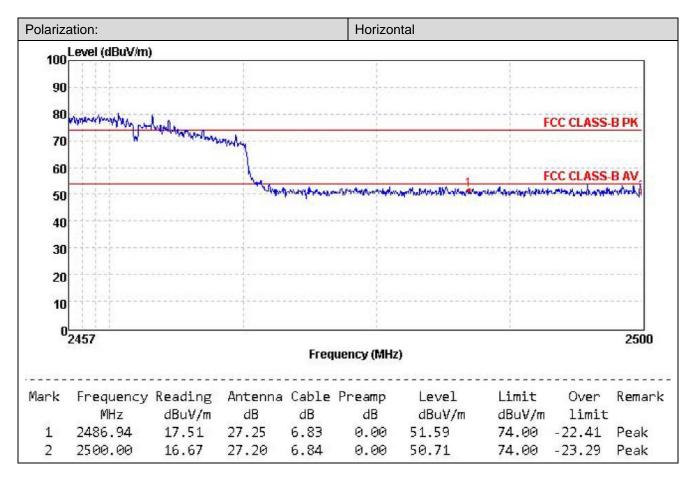






802.11n(HT20)-2462MHz Peak:





802.11n(HT20)-2462MHz Average:

