

FCC PART 15.247 TEST REPORT

For

ShenZhen Foscam Intelligent Technology Co., Ltd.

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FCC ID: ZDEFN3104W

Report Type: Product Type: Original Report Wireless Network Video Recorder **Report Number:** RSZ160818001-00B **Report Date:** 2016-10-10 Jesse. Humf Oscar Ye Reviewed By: Engineer Jesse Huang Approved By Manager Prepared By: Bay Area Compliance Laboratories Corp. (Kunshan) Chenghu Road, Kunshan Development Zone No.248, Kunshan, Jiangsu, China Tel: +86-0512-86175000 Fax: +86-0512-88934268 www.baclcorp.com.cn

Note: This test report is prepared for the customer shown above and for the equipment described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp.

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The ShenZhen Foscam Intelligent Technology Co., Ltd.'s product, model number: FN3104W (FCC ID: ZDEFN3104W) or the "EUT" in this report was a Wireless Network Video Recorder, which was measured approximately: 23.1 cm (L) ×25.3 cm (W) ×5.5 cm (H), rated with input voltage: DC 12.0 V from adapter.

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Adapter Information:

Model: SAW30-120-2000U

Input: AC 100-240V, 50/60Hz, 0.8A Output: DC 12.0 V, 2000 mA

Note: The product, series models FN3108W, FN7104W, FN7108W, FR3104W, FR3108W, FR7104W, FR7108W, FN3104WS, FN3104WS, FN3104WS, FN7104WS, FN7108WS, FR3104WS, FR3108WS, FR7104WS, FR7108WS are electrically identical with the model FN3104W, that was selected for fully testing, They are only named different due to marketing purpose, the detailed information can be referred to the attached declaration letter that stated and guaranteed by the applicant.

*All measurement and test data in this report was gathered from production sample serial number: 1603003 (Assigned by BACL, Kunshan). The EUT supplied by the applicant was received on 2016-08-18.

Objective

This report is prepared on behalf of *ShenZhen Foscam Intelligent Technology Co., Ltd.* in accordance with Part 2-Subpart J, Part 15-Subparts A, B and C of the Federal Communication Commission's rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Related Submittal(s)/Grant(s)

No related submittal(s).

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Kunshan). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

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Measurement Uncertainty

	Item	Uncertainty	
AC Power Line	s Conducted Emissions	±3.26 dB	
RF conducte	d test with spectrum	±0.9dB	
RF Output Power with Power meter		±0.5dB	
D. Estadaminia	30MHz~1GHz	±5.91dB	
Radiated emission	Above 1G	±4.92dB	
Occupied Bandwidth		±0.5kHz	
Temperature		±1.0℃	
H	Iumidity	±6%	

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Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the Chenghu Lake Road, Kunshan Development Zone No.248, Kunshan, Jiangsu, China

Test site at Bay Area Compliance Laboratories Corp. (Kunshan) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on November 06, 2014. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 815570. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

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SYSTEM TEST CONFIGURATION

Description of Test Configuration

For 802.11b, 802.11g and 802.11n-HT20 mode, 11 channels are provided to testing:

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

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For 802.11b, 802.11g, 802.11n-HT20 mode, EUT was tested with Channel 1, 7 and 11.

For 802.11n-HT40 mode, 7 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2422	6	2447
2	2427	7	2452
3	2432	/	/
4	2437	/	/
5	2437	/	/

EUT was tested with Channel 1, 5 and 7.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

Wi-Fi test in the engineer mode.

Test software: REALTEK 11N 8192E USB WLAN MP diagnostic program 0.0020.3.20130924

The device was tested with 100% duty cycle and the worst case was performed as below:

802.11b: Data rate: 1 Mbps, Power level: 45 802.11g: Data rate: 6 Mbps, Power level: 45 802.11n-HT20: Data rate: MCS0, Power level: 47 802.11n-HT40: Data rate: MCS0, Power level: 47

Pre-scan with all the date rates, the above date rate is the worst case for Wi-Fi test.

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Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
N/A	N/A	N/A	N/A

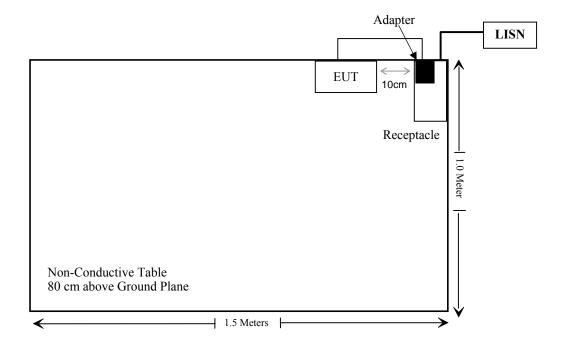
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External I/O Cable

Cable Description	Length (m)	From Port	То
Un-Shielding Detachable power Cable	1.5	EUT	Adapter

Block Diagram of Test Setup

For conducted emission



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SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (i) & §1.1307 (b) (1) & §2.1091	MaximuM Permissible exposure (MPE)	Compliance
§15.203	Antenna Requirement	Compliance
§15.207 (a)	AC Line Conducted Emissions	Compliance
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliance
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliance
§15.247(b)(3)	Maximum Conducted Output Power	Compliance
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliance
§15.247(e)	Power Spectral Density	Compliance

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TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date	
AC Line Conducted test						
Rohde & Schwarz	EMI Test Receiver	ESCS30	934115/007	2015-11-12	2016-11-11	
Rohde & Schwarz	LISN	ESH3-Z5	862770/011	2015-11-12	2016-11-11	
Rohde & Schwarz	Pulse limiter	ESH3-Z2	879940/0058	2016-06-19	2017-06-18	
MICRO-COAX	Coaxial line	UFB-293B-1- 0480-50X50	97F0173	2015-10-01	2016-10-01	
Rohde & Schwarz	CE Test software	EMC 32	V 09.10.0	NCR	NCR	
	F	Radiation test				
Sonoma Instrunent	Amplifier	330	171377	2016-09-16	2017-09-16	
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2015-11-12	2016-11-11	
Sunol Sciences	Broadband Antenna	JB3	A090314-2	2015-11-07	2016-11-06	
Mini	Pre-amplifier	ZVA-183-S+	857001418	2016-09-16	2017-09-15	
DUCOMMUN	Pre-amplifier	ALN- 22093530-01	990147	2016-09-16	2017-09-15	
EMCO	Horn Antenna	3116	9510-2384	2015-11-07	2016-11-06	
Rohde & Schwarz	Signal Analyzer	FSIQ26	100048	2015-11-12	2016-11-11	
Rohde & Schwarz	Signal Analyzer	FSV40	101116	2016-07-04	2017-07-03	
ETS	Horn Antenna	3115	6229	2015-11-07	2016-11-06	
R&S	Auto test Software	EMC32	V 09.10.0	NCR	NCR	
BACL	RF cable	KS-LAB-012	KS-LAB-012	2015-06-16	2016-12-15	
BACL	RF cable	KS-LAB-010	KS-LAB-010	2015-12-16	2016-12-15	
	RF	Conducted test				
BACL	TS 8997 Cable-01	T-KS- EMC086	T-KS- EMC086	2015-12-10	2016-12-09	
BACL	RF cable	KS-LAB-012	KS-LAB-012	2015-12-16	2016-12-15	
WEINSCHEL	3dB Attenuator	5326	N/A	2016-06-18	2017-06-18	
Rohde & Schwarz	OSP120 BASE UNIT	OSP120	101247	2016-07-04	2017-07-03	
Rohde & Schwarz	Signal Analyzer	FSIQ26	836131	2016-09-21	2017-09-21	

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^{*} **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Kunshan) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §15.247 (i) & §1.1307 (b) (1) & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart 15.247 (i) and subpart 1.1307 (b)(1), 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

Limits for General Population/Uncontrolled Exposure

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	Limits for General Population/Uncontrolled Exposure						
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (Minutes)			
0.3-1.34	614	1.63	*(100)	30			
1.34-30	824/f	2.19/f	$*(180/f^2)$	30			
30-300	27.5	0.073	0.2	30			
300-1500	/	/	f/1500	30			
1500-100,000	/	/	1.0	30			

f = frequency in MHz

Result

Calculated Formulary:

Predication of MPE limit at a given distance

$$S = \frac{PG}{4\pi R^2}$$

S = power density (in appropriate units, e.g. mW/cm2)

P = power input to the antenna (in appropriate units, e.g., mW).

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

Frequency	Ante	nna Gain	Conduc	ted Power	Evaluation	Power	MPE Limit
(MHz)	(dBi)	(numeric)	(dBm)	(mW)	Distance (cm)	Density (mW/cm ²)	(mW/cm^2)
Wifi	5	3.16	21.00	125.89	20	0.08	1

Note: To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliance

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^{* =} Plane-wave equivalent power density

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to § 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 an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

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- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT has two external antenna, which were permanently attached and the antenna gain is 5dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliance.

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FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207

EUT Setup



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Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

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Corrected Factor & Margin Calculation

The Corrected factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

Correction Factor = LISN VDF + Cable Loss + Transient Limiter Attenuation

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

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Margin = Limit – Corrected Amplitude

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207,

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level complies with the limit if

$$L_{\rm m} + U_{(L{\rm m})} \leq L_{\rm lim} + U_{\rm cispr}$$

In BACL, $U_{(Lm)}$ is less than U_{cispr} , if L_m is less than L_{lim} , it implies that the EUT complies with the limit.

Test Data

Environmental Conditions

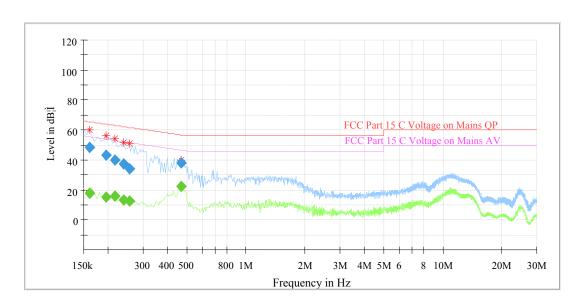
Temperature:	23 ℃
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

The testing was performed by Chris Wang on 2016-10-08.

EUT operation mode: Transmitting

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AC 120V/60 Hz, Line

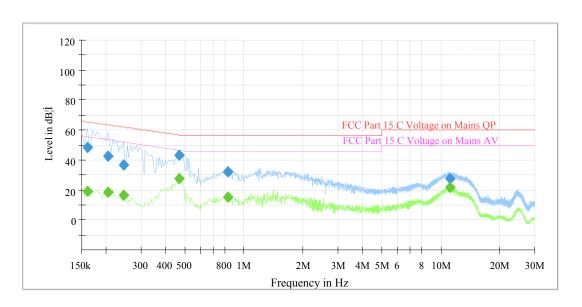


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Frequency (MHz)	QuasiPeak (dBµV)	Average (dB \mu V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.160000		17.75	9.000	L1	10.3	37.71	55.46	Compliance
0.160000	48.29		9.000	L1	10.3	17.17	65.46	Compliance
0.195000		15.01	9.000	L1	10.3	38.81	53.82	Compliance
0.195000	43.26		9.000	L1	10.3	20.56	63.82	Compliance
0.215000		16.01	9.000	L1	10.3	37.00	53.01	Compliance
0.215000	39.71		9.000	L1	10.3	23.30	63.01	Compliance
0.240000		13.34	9.000	L1	10.3	38.76	52.10	Compliance
0.240000	36.99		9.000	L1	10.3	25.11	62.10	Compliance
0.255000		12.70	9.000	L1	10.3	38.89	51.59	Compliance
0.255000	33.78		9.000	L1	10.3	27.81	61.59	Compliance
0.470000		22.60	9.000	L1	10.3	23.91	46.51	Compliance
0.470000	37.68		9.000	L1	10.3	18.83	56.51	Compliance

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AC 120V/60 Hz, Neutral



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Frequency (MHz)	QuasiPeak (dBµV)	Average (dB \mu V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.160000		19.03	9.000	N	10.3	36.43	55.46	Compliance
0.160000	48.55		9.000	N	10.3	16.91	65.46	Compliance
0.205000		18.71	9.000	N	10.3	34.70	53.41	Compliance
0.205000	42.28		9.000	N	10.3	21.13	63.41	Compliance
0.245000		16.28	9.000	N	10.3	35.64	51.92	Compliance
0.245000	36.93		9.000	N	10.3	24.99	61.92	Compliance
0.470000		27.46	9.000	N	10.3	19.05	46.51	Compliance
0.470000	42.94		9.000	N	10.3	13.57	56.51	Compliance
0.825000		14.93	9.000	N	10.3	31.07	46.00	Compliance
0.825000	31.98		9.000	N	10.3	24.02	56.00	Compliance
11.070000		21.92	9.000	N	10.5	28.08	50.00	Compliance
11.070000	27.79		9.000	N	10.5	32.21	60.00	Compliance

Note:

- 1) Correction Factor =LISN VDF (Voltage Division Factor) + Cable Loss + Transient Limiter Attenuation
- 2) Corrected Amplitude = Reading + Correction Factor
 3) Margin = Limit Corrected Amplitude

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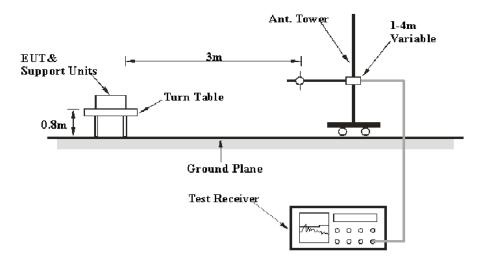
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

FCC §15.247 (d); §15.209; §15.205;

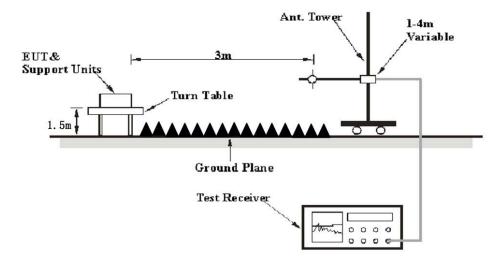
EUT Setup

Below 1 GHz:



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Above 1GHz:



The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

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EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
Above I GHZ	1MHz	10 Hz	/	Ave.

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Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz, peak and Average detection modes for frequencies above 1 GHz.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

Test Results Summary

According to the recorded data in following table, the EUT complied with the <u>FCC Title 47, Part 15, Subpart C, section 15.205, 15.209 and 15.247.</u>

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level complies with the limit if

$$L_{\rm m} + U_{(L{\rm m})} \leq L_{\rm lim} + U_{\rm cispr}$$

In BACL, $U_{(Lm)}$ is less than U_{cispr} , if L_m is less than L_{lim} , it implies that the EUT complies with the limit.

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Test Data

Environmental Conditions

Temperature:	23 ℃
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

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The testing was performed by Chris Wang on 2016-10-08.

EUT operation mode: Transmitting

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30 MHz-25 GHz:

For Wi-Fi:

802.11b Mode:

Frequency	Re	eceiver	Turntable	Rx Ar	itenna		Corrected		C Part //205/209
(MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)	Factor (dB)	Amplitude (dBμV/m)	Limit (dBµV/m)	Margin (dB)
	_		Low Ch	annel (2	2412 M	Hz)			
324.9	49.20	QP	360	2.2	Н	-9.86	39.34	46.0	6.66
2412.00	103.26	PK	255	2.1	Н	-3.04	100.22	/	/
2412.00	98.17	Ave.	255	2.1	Н	-3.04	95.13	/	/
2412.00	114.40	PK	165	1.3	V	-3.04	111.36	/	/
2412.00	109.55	Ave.	165	1.3	V	-3.04	106.51	/	/
2389.59	64.21	PK	316	1.7	V	-3.05	61.16	74	12.84
2389.59	46.36	Ave.	316	1.7	V	-3.05	43.31	54	10.69
2492.56	57.60	PK	179	1.2	V	-2.98	54.62	74	19.38
2492.56	42.75	Ave.	179	1.2	V	-2.98	39.77	54	14.23
4824.00	41.76	PK	198	2.0	V	7.19	48.95	74	25.05
4824.00	25.60	Ave.	198	2.0	V	7.19	32.79	54	21.21
			Middle C	hannel	(2437 N	MHz)			
324.9	48.72	QP	118	1.1	Н	-9.86	38.86	46.0	7.14
2437.00	103.29	PK	58	1.8	Н	-3.02	100.27	/	/
2437.00	98.35	Ave.	58	1.8	Н	-3.02	95.33	/	/
2437.00	114.47	PK	313	2.1	V	-3.02	111.45	/	/
2437.00	109.34	Ave.	313	2.1	V	-3.02	106.32	/	/
2381.48	57.86	PK	240	2.4	Н	-3.06	54.80	74	19.20
2381.48	40.70	Ave.	240	2.4	Н	-3.06	37.64	54	16.36
2483.71	57.79	PK	199	1.9	Н	-2.99	54.80	74	19.20
2483.71	41.31	Ave.	199	1.9	Н	-2.99	38.32	54	15.68
4874.00	42.33	PK	25	1.1	V	7.27	49.60	74	24.40
4874.00	26.23	Ave.	25	1.1	V	7.27	33.50	54	20.50

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Frequency	Re	eceiver	Turntable	Turntable Rx Antenna			Corrected	15 /4 ///05//09		
(MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)	
High Channel (2462 MHz)										
324.9	48.34	QP	327	2.1	Н	-9.86	38.48	46.0	7.52	
2462.00	101.43	PK	81	1.9	Н	-3.00	98.43	/	/	
2462.00	96.82	Ave.	81	1.9	Н	-3.00	93.82	/	/	
2462.00	115.16	PK	118	1.5	V	-3.00	112.16	/	/	
2462.00	109.93	Ave.	118	1.5	V	-3.00	106.93	/	/	
2385.03	56.60	PK	166	1.7	V	-3.05	53.55	74	20.45	
2385.03	41.50	Ave.	166	1.7	V	-3.05	38.45	54	15.55	
2484.12	63.86	PK	18	1.6	V	-2.99	60.87	74	13.13	
2484.12	44.51	Ave.	18	1.6	V	-2.99	41.52	54	12.48	
4924.00	41.41	PK	4	1.8	V	7.34	48.75	74	25.25	
4924.00	25.15	Ave.	4	1.8	V	7.34	32.49	54	21.51	

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802.11g Mode:

Frequency	Re	eceiver	Turntable	Rx An	itenna		Corrected		C Part //205/209
(MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
			Low Ch	annel (2	2412 M	Hz)	-		
324.9	48.45	QP	135	2.1	Н	-9.86	38.59	46.0	7.41
2412.00	101.32	PK	134	1.0	Н	-3.04	98.28	/	/
2412.00	90.57	Ave.	134	1.0	Н	-3.04	87.53	/	/
2412.00	112.62	PK	114	2.2	V	-3.04	109.58	/	/
2412.00	102.02	Ave.	114	2.2	V	-3.04	98.98	/	/
2389.83	68.88	PK	54	2.1	V	-3.05	65.83	74	8.17
2389.83	48.54	Ave.	54	2.1	V	-3.05	45.49	54	8.51
2496.06	57.58	PK	345	2.3	V	-2.98	54.60	74	19.40
2496.06	42.75	Ave.	345	2.3	V	-2.98	39.77	54	14.23
4824.00	41.10	PK	18	1.9	V	7.19	48.29	74	25.71
4824.00	25.62	Ave.	18	1.9	V	7.19	32.81	54	21.19
			Middle C	hannel	(2437 N	/IHz)			
324.9	50.09	QP	77	1.1	Н	-9.86	40.23	46.0	5.77
2437.00	97.55	PK	245	1.9	Н	-3.02	94.53	/	/
2437.00	86.29	Ave.	245	1.9	Н	-3.02	83.27	/	/
2437.00	111.23	PK	128	2.3	V	-3.02	108.21	/	/
2437.00	100.05	Ave.	128	2.3	V	-3.02	97.03	/	/
2385.85	57.97	PK	100	2.1	Н	-3.05	54.92	74	19.08
2385.85	41.19	Ave.	100	2.1	Н	-3.05	38.14	54	15.86
2483.56	57.91	PK	61	2.2	Н	-2.99	54.92	74	19.08
2483.56	41.62	Ave.	61	2.2	Н	-2.99	38.63	54	15.37
4874.00	41.33	PK	153	1.0	V	7.27	48.60	74	25.40
4874.00	26.44	Ave.	153	1.0	V	7.27	33.71	54	20.29

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Frequency	Re	eceiver	Turntabla	Turntable Rx Antenna			Corrected	10.21112001207		
(MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)	Degree	Height (m)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)	
High Channel (2462 MHz)										
324.9	49.05	QP	277	2.3	Н	-9.86	39.19	46.0	6.81	
2462.00	99.50	PK	247	1.8	Н	-3.00	96.50	/	/	
2462.00	89.00	Ave.	247	1.8	Н	-3.00	86.00	/	/	
2462.00	112.80	PK	72	2.0	V	-3.00	109.80	/	/	
2462.00	102.01	Ave.	72	2.0	V	-3.00	99.01	/	/	
2387.59	57.28	PK	156	2.3	V	-3.05	54.23	74	19.77	
2387.59	41.50	Ave.	156	2.3	V	-3.05	38.45	54	15.55	
2484.88	68.64	PK	36	1.7	V	-2.99	65.65	74	8.35	
2484.88	46.29	Ave.	36	1.7	V	-2.99	43.30	54	10.70	
4924.00	42.53	PK	116	2.0	V	7.34	49.87	74	24.13	
4924.00	25.47	Ave.	116	2.0	V	7.34	32.81	54	21.19	

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802.11n-HT20 Mode:

Frequency	Re	eceiver	Turntable	Rx An	itenna		Corrected		C Part /205/209
(MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
			Low Ch	annel (2	2412 M	Hz)			
324.9	48.66	QP	306	1.2	Н	-9.86	38.80	46.0	7.20
2412.00	105.84	PK	144	1.3	Н	-3.04	102.80	/	/
2412.00	91.92	Ave.	144	1.3	Н	-3.04	88.88	/	/
2412.00	115.02	PK	94	1.2	V	-3.04	111.98	/	/
2412.00	101.08	Ave.	94	1.2	V	-3.04	98.04	/	/
2388.23	71.63	PK	281	2.1	V	-3.05	68.58	74	5.42
2388.23	51.73	Ave.	281	2.1	V	-3.05	48.68	54	5.32
2496.79	59.14	PK	264	1.2	V	-2.98	56.16	74	17.84
2496.79	42.75	Ave.	264	1.2	V	-2.98	39.77	54	14.23
4824.00	41.31	PK	2	1.9	V	7.19	48.50	74	25.50
4824.00	26.49	Ave.	2	1.9	V	7.19	33.68	54	20.32
			Middle C	hannel	(2437 N	/IHz)			
324.9	49.01	QP	286	2.1	Н	-9.86	39.15	46.0	6.85
2437.00	102.34	PK	248	2.4	Н	-3.02	99.32	/	/
2437.00	90.12	Ave.	248	2.4	Н	-3.02	87.10	/	/
2437.00	114.42	PK	285	1.7	V	-3.02	111.40	/	/
2437.00	98.94	Ave.	285	1.7	V	-3.02	95.92	/	/
2383.01	56.97	PK	43	1.8	Н	-3.05	53.92	74	20.08
2383.01	40.49	Ave.	43	1.8	Н	-3.05	37.44	54	16.56
2484.53	58.99	PK	28	1.7	Н	-2.99	56.00	74	18.00
2484.53	41.85	Ave.	28	1.7	Н	-2.99	38.86	54	15.14
4874.00	42.97	PK	249	1.1	V	7.27	50.24	74	23.76
4874.00	26.62	Ave.	249	1.1	V	7.27	33.89	54	20.11

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Frequency	Re	eceiver	Turntable	Rx An	tenna		Corrected	13.27//203/207	
(MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)	Degree	Height (H/V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)	
			High Ch	annel (2	2462 M	Hz)			
324.9	50.18	QP	165	1.4	Н	-9.86	40.32	46.0	5.68
2462.00	105.02	PK	208	1.9	Н	-3.00	102.02	/	/
2462.00	92.30	Ave.	208	1.9	Н	-3.00	89.30	/	/
2462.00	115.60	PK	259	2.1	V	-3.00	112.60	/	/
2462.00	101.16	Ave.	259	2.1	V	-3.00	98.16	/	/
2389.51	57.03	PK	252	1.2	V	-3.05	53.98	74	20.02
2389.51	41.50	Ave.	252	1.2	V	-3.05	38.45	54	15.55
2484.88	69.81	PK	196	2.2	V	-2.99	66.82	74	7.18
2484.88	51.54	Ave.	196	2.2	V	-2.99	48.55	54	5.45
4924.00	41.68	PK	162	2.2	V	7.34	49.02	74	24.98
4924.00	26.81	Ave.	162	2.2	V	7.34	34.15	54	19.85

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802.11n-HT40 Mode:

Frequency	Re	eceiver	Turntable	Rx An	itenna		Corrected		C Part /205/209
(MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
			Low Ch	annel (2	2422 M	Hz)			
324.9	49.36	QP	297	1.7	Н	-9.86	39.50	46.0	6.50
2422.00	101.54	PK	225	1.9	Н	-3.03	98.51	/	/
2422.00	86.29	Ave.	225	1.9	Н	-3.03	83.26	/	/
2422.00	110.57	PK	199	2.3	V	-3.03	107.54	/	/
2422.00	93.66	Ave.	199	2.3	V	-3.03	90.63	/	/
2389.87	71.89	PK	99	1.9	V	-3.05	68.84	74	5.16
2389.87	54.56	Ave.	99	1.9	V	-3.05	51.51	54	2.49
2484.45	62.60	PK	173	1.2	V	-2.99	59.61	74	14.39
2484.45	42.76	Ave.	173	1.2	V	-2.99	39.77	54	14.23
4844.00	42.15	PK	257	1.2	V	7.22	49.37	74	24.63
4844.00	25.50	Ave.	257	1.2	V	7.22	32.72	54	21.28
			Middle C	hannel	(2437N	(Hz)			
324.9	49.41	QP	215	1.8	Н	-9.86	39.55	46.0	6.45
2437.00	100.19	PK	335	2.0	Н	-3.02	97.17	/	/
2437.00	86.12	Ave.	335	2.0	Н	-3.02	83.10	/	/
2437.00	111.63	PK	280	1.6	V	-3.02	108.61	/	/
2437.00	96.13	Ave.	280	1.6	V	-3.02	93.11	/	/
2381.93	60.12	PK	314	1.2	Н	-3.06	57.06	74	16.94
2381.93	41.71	Ave.	314	1.2	Н	-3.06	38.65	54	15.35
2484.09	63.01	PK	298	2.4	Н	-2.99	60.02	74	13.98
2484.09	42.76	Ave.	298	2.4	Н	-2.99	39.77	54	14.23
4874.00	41.29	PK	205	1.7	V	7.27	48.56	74	25.44
4874.00	25.75	Ave.	205	1.7	V	7.27	33.02	54	20.98

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Frequency	Re	eceiver	Turntable	Rx An	itenna		Corrected	15.247	C Part //205/209
(MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)	Degree	Height (m)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
High Channel (2452 MHz)									
324.9	50.24	QP	152	1.5	Н	-9.86	40.38	46.0	5.62
2452.00	102.56	PK	241	1.3	Н	-3.01	99.55	/	/
2452.00	87.26	Ave.	241	1.3	Н	-3.01	84.25	/	/
2452.00	112.77	PK	226	1.2	V	-3.01	109.76	/	/
2452.00	97.47	Ave.	226	1.2	V	-3.01	94.46	/	/
2388.71	61.04	PK	268	2.3	V	-3.05	57.99	74	16.01
2388.71	41.50	Ave.	268	2.3	V	-3.05	38.45	54	15.55
2486.54	72.86	PK	104	1.8	V	-2.99	69.87	74	4.13
2486.54	55.66	Ave.	104	1.8	V	-2.99	52.67	54	1.33
4904.00	41.45	PK	196	1.0	V	7.31	48.76	74	25.24
4904.00	26.83	Ave.	196	1.0	V	7.31	34.14	54	19.86

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Note:

Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor Corrected Amplitude = Corrected Factor + Reading

Margin = Limit - Corrected. Amplitude

The other spurious emission which is 20dB to the limit was not recorded.

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FCC $\S15.247(a)$ (2) – 6 dB EMISSION BANDWIDTH

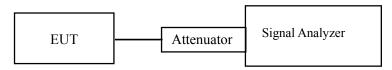
Applicable Standard

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

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Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- 3. Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth.
- 4. Repeat above procedures until all frequencies measured were complete.



Test Data

Environmental Conditions

Temperature:	24℃	
Relative Humidity:	53 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Chris Wang on 2016-10-09.

Test Result: Pass.

Please refer to the following table and plots.

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EUT operation mode: Transmitting

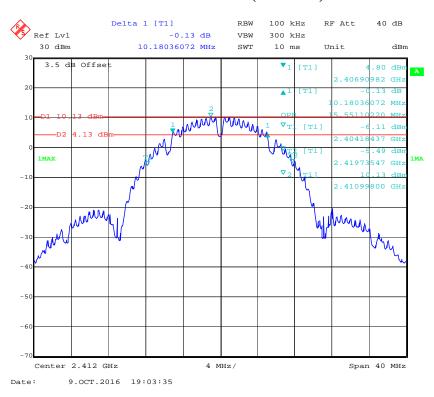
Channel	Frequency	6 dB Emission Bandwidth (MHz)		Limit (kHz)
Channel	(MHz)	Antenna 0	Antenna 1	_ ` ` ′
802.11b mode				
Low	2412	10.18	10.1	≥500
Middle	2437	10.1	10.1	≥500
High	2462	9.7	10.1	≥500
802.11g mode				
Low	2412	16.51	16.51	≥500
Middle	2437	16.43	16.43	≥500
High	2462	16.43	16.43	≥500
802.11n-HT20 mode				
Low	2412	17.64	17.64	≥500
Middle	2437	17.64	17.64	≥500
High	2462	17.64	17.64	≥500
802.11n-HT40 mode				
Low	2422	36.07	35.91	≥500
Middle	2437	36.39	36.07	≥500
High	2452	36.07	36.07	≥500

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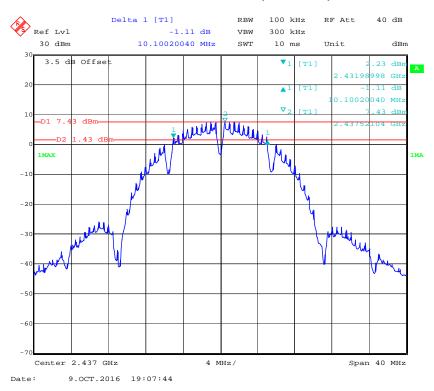
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802.11b Low Channel (Antenna 0)

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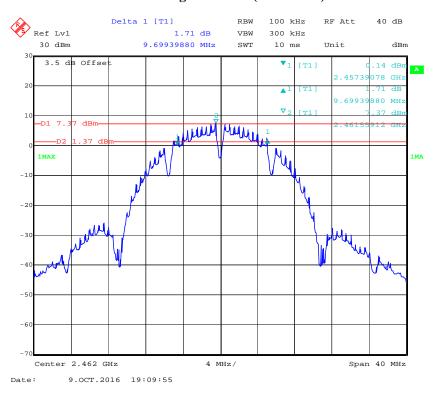
802.11b Middle Channel (Antenna 0)



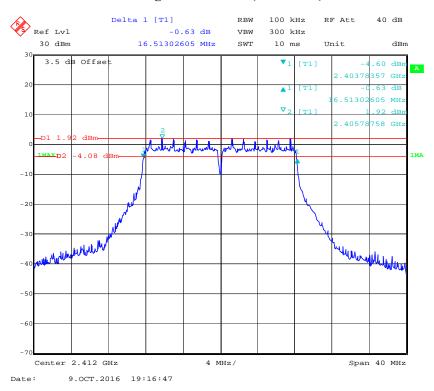
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802.11b High Channel (Antenna 0)

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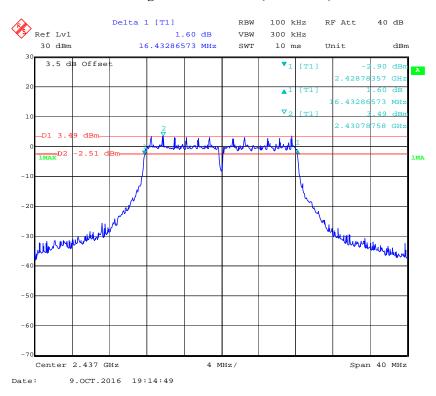
802.11g Low Channel (Antenna 0)



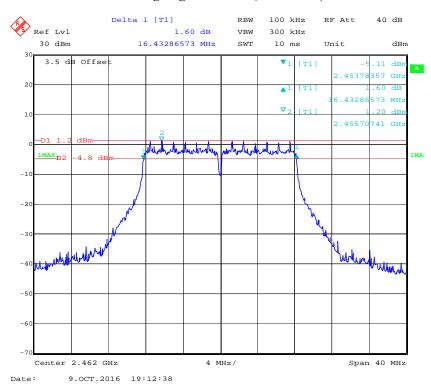
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802.11g Middle Channel (Antenna 0)

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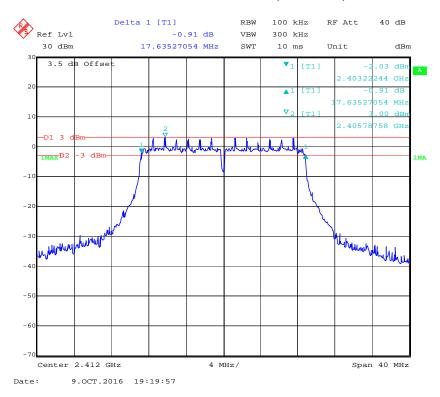
802.11g High Channel (Antenna 0)



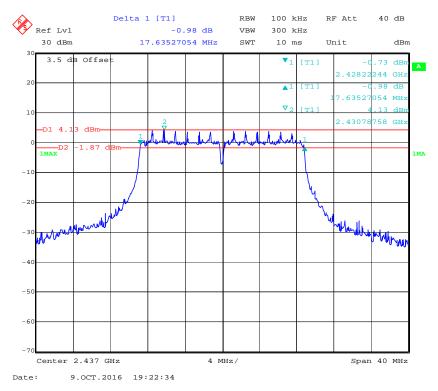
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802.11n-HT20 Low Channel (Antenna 0)

Report No.: RSZ160818001-00B



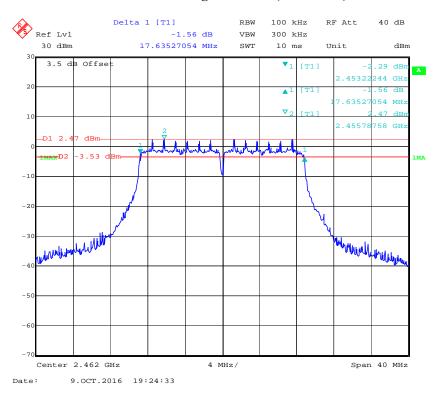
802.11n-HT20 Middle Channel (Antenna 0)



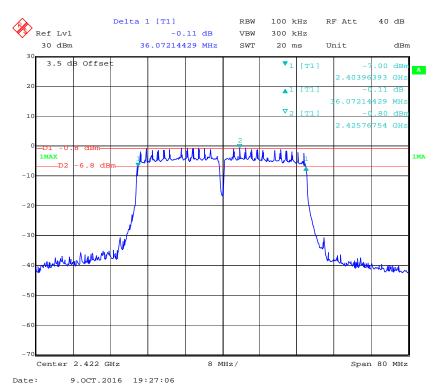
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802.11n-HT20 High Channel (Antenna 0)

Report No.: RSZ160818001-00B



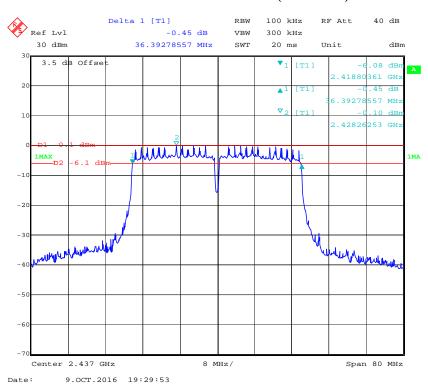
802.11n-HT40 Low Channel (Antenna 0)



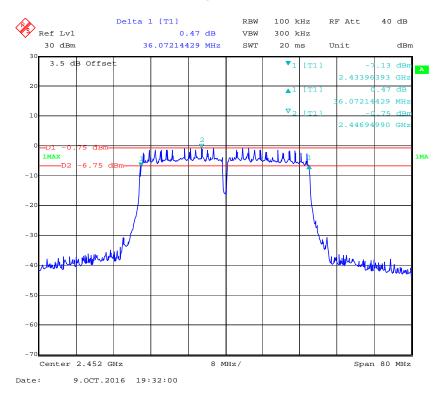
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802.11n-HT40 Middle Channel (Antenna 0)

Report No.: RSZ160818001-00B



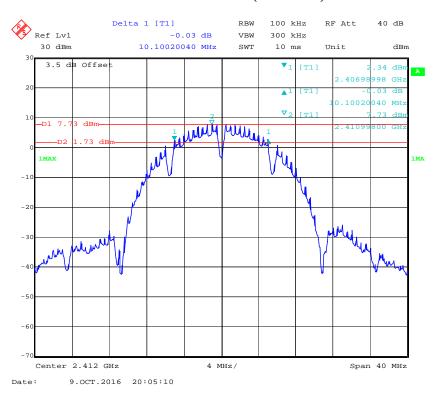
802.11n-HT40 High Channel (Antenna 0)



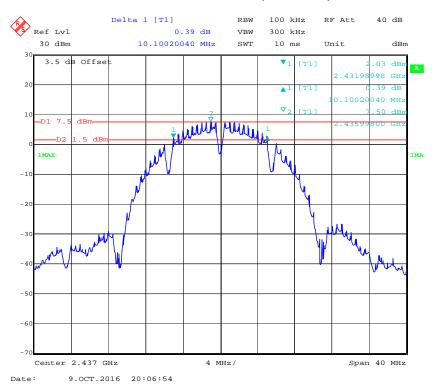
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802.11b Low Channel (Antenna 1)

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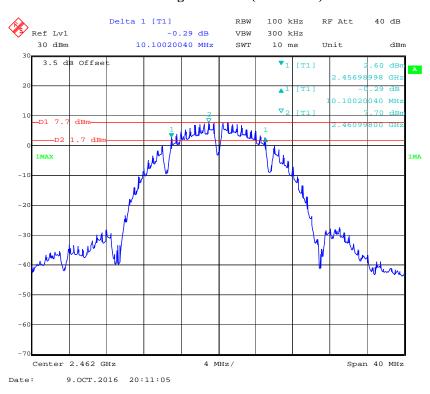
802.11b Middle Channel (Antenna 1)



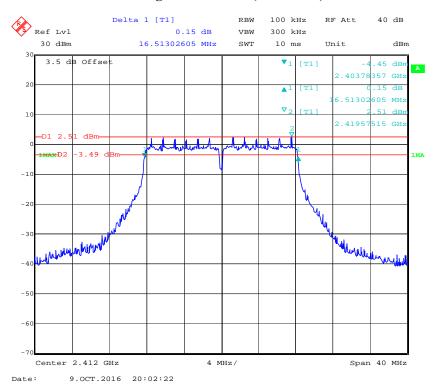
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802.11b High Channel (Antenna 1)

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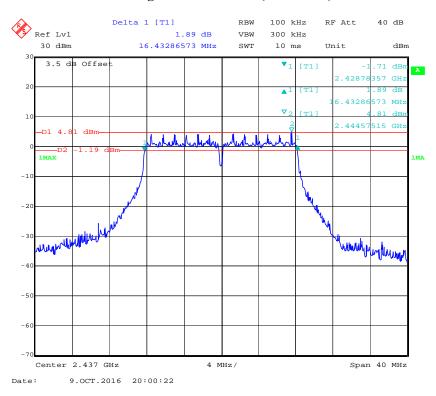
802.11g Low Channel (Antenna 1)



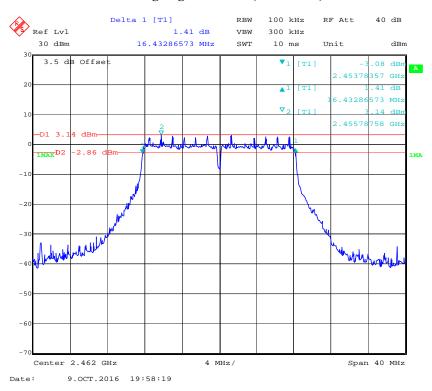
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802.11g Middle Channel (Antenna 1)

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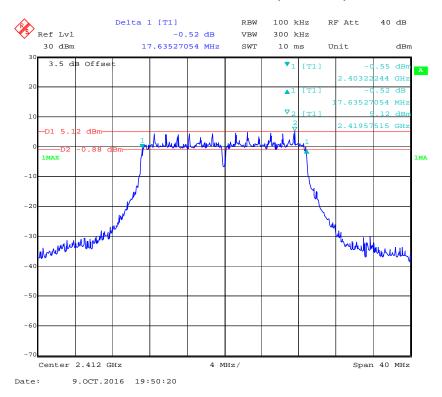
802.11g High Channel (Antenna 1)



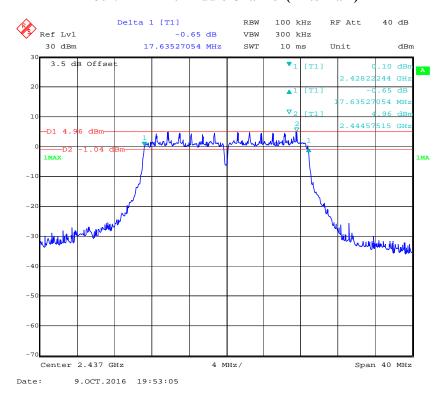
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802.11n-HT20 Low Channel (Antenna 1)

Report No.: RSZ160818001-00B



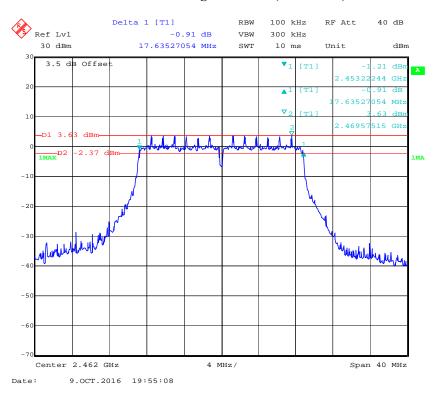
802.11n-HT20 Middle Channel (Antenna 1)



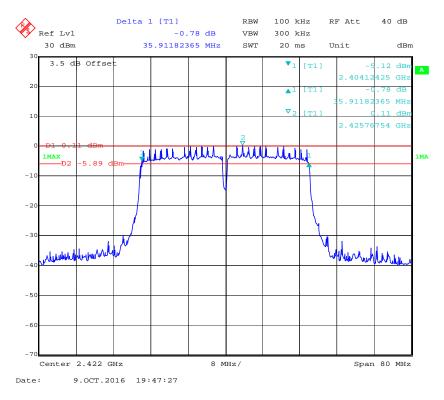
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802.11n-HT20 High Channel (Antenna 1)

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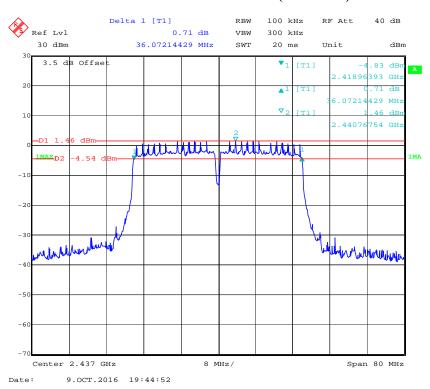
802.11n-HT40 Low Channel (Antenna 1)



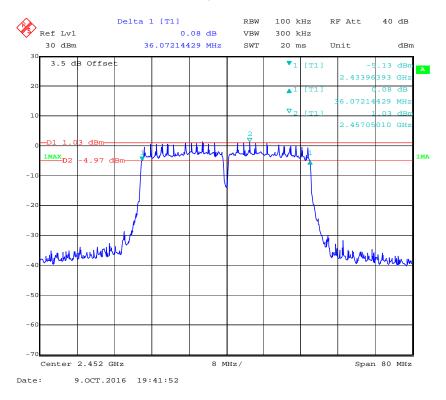
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802.11n-HT40 Middle Channel (Antenna 1)

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802.11n-HT40 High Channel (Antenna 1)



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FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER

Applicable Standard

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

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Test Procedure

- 1. Place the EUT on a bench and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
- 3. Add a correction factor to the display.



Test Data

Environmental Conditions

Temperature:	23 ℃		
Relative Humidity:	56 %		
ATM Pressure:	101.0 kPa		

The testing was performed by Chris Wang on 2016-10-08.

EUT operation mode: Transmitting

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Wi-Fi mode

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Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)		Max Conducted Average Output Power (dBm)			Limit (dBm)	
		Antenna 0	Antenna 1	Total	Antenna 0	Antenna 1	Total	(ubiii)
	802.11b							
Low	2412	21.06	20.56	/	19.42	18.90	/	30
Middle	2437	20.48	20.67	/	18.84	19.00	/	30
High	2462	20.30	20.80	/	18.52	19.14	/	30
802.11g								
Low	2412	20.00	20.27	/	15.18	15.53	/	30
Middle	2437	21.11	22.06	/	16.53	17.40	/	30
High	2462	19.34	20.96	/	14.52	16.30	/	30
802.11n HT20								
Low	2412	20.93	21.63	24.30	16.29	16.88	19.61	30
Middle	2437	21.80	22.81	25.34	17.33	18.08	20.73	30
High	2462	20.36	21.79	24.14	15.65	17.13	19.46	30
802.11n HT40								
Low	2422	21.22	21.81	24.54	14.03	14.71	17.39	30
Middle	2437	21.94	22.99	25.51	14.81	15.90	18.40	30
High	2452	20.93	22.83	24.99	14.11	15.82	18.06	30

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FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE

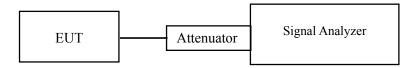
Report No.: RSZ160818001-00B

Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- 3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- 5. Repeat above procedures until all measured frequencies were complete.



Test Data

Environmental Conditions

Temperature:	24℃		
Relative Humidity:	53 %		
ATM Pressure:	101.0 kPa		

The testing was performed by Chris Wang on 2016-10-09.

EUT operation mode: Transmitting

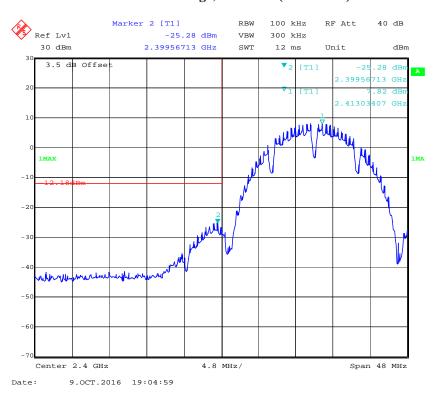
Test Result: Compliance

Please refer to the following plots.

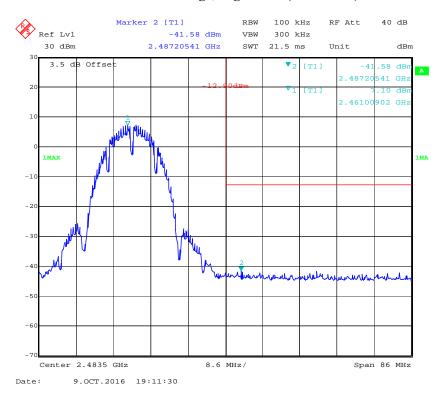
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802.11b: Band Edge, Left Side (Antenna 0)

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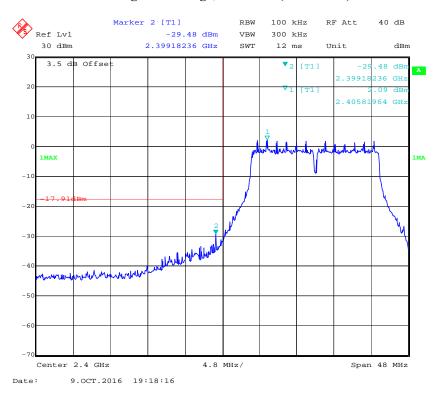
802.11b: Band Edge, Right Side (Antenna 0)



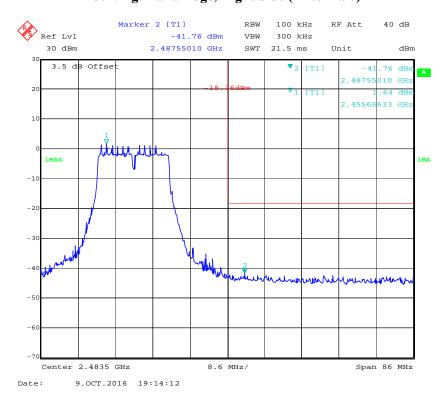
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802.11g: Band Edge, Left Side (Antenna 0)

Report No.: RSZ160818001-00B



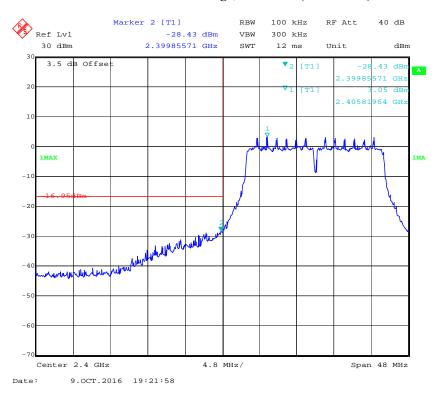
802.11g: Band Edge, Right Side (Antenna 0)



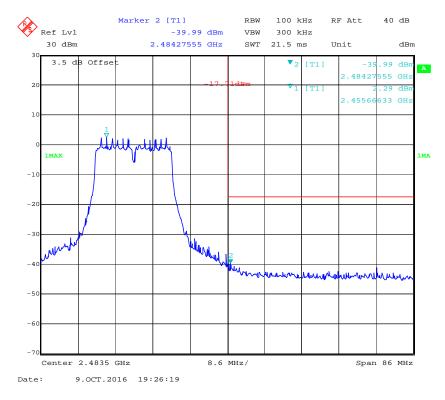
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802.11n-HT20: Band Edge, Left Side (Antenna 0)

Report No.: RSZ160818001-00B



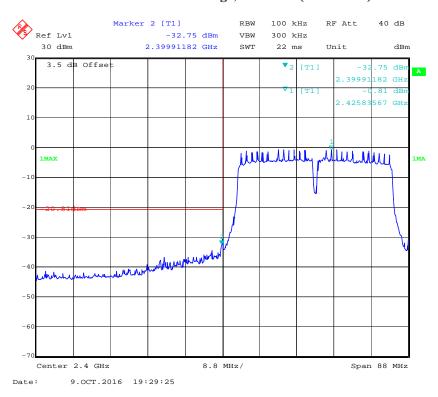
802.11n-HT20: Band Edge, Right Side (Antenna 0)



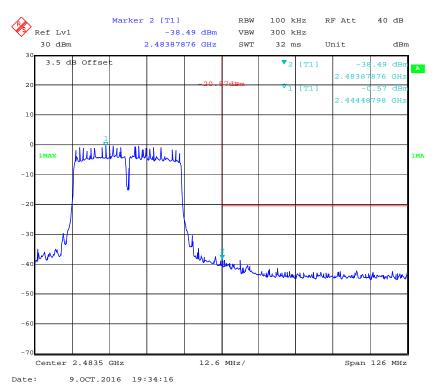
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802.11n-HT40: Band Edge, Left Side (Antenna 0)

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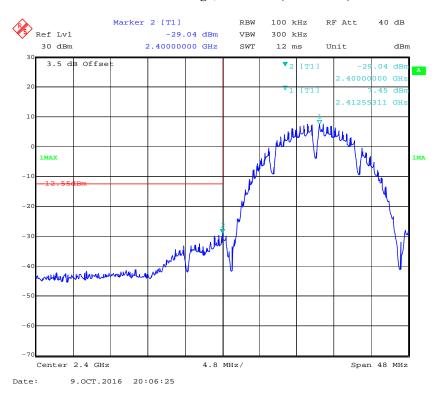
802.11n-HT40: Band Edge, Right Side (Antenna 0)



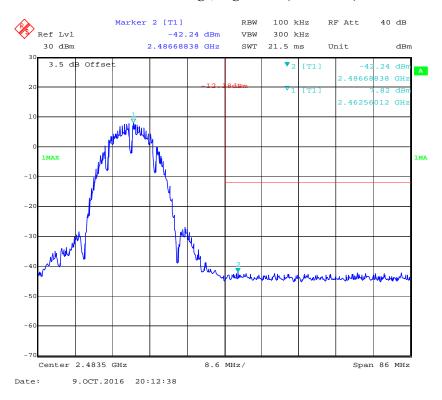
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802.11b: Band Edge, Left Side (Antenna 1)

Report No.: RSZ160818001-00B



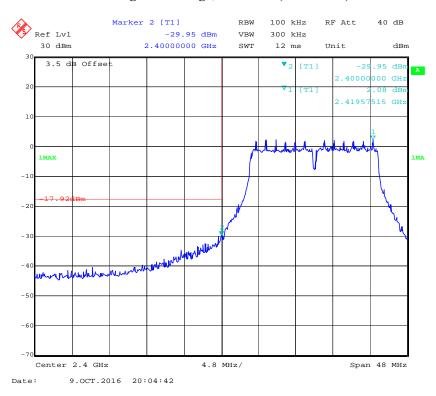
802.11b: Band Edge, Right Side (Antenna 1)



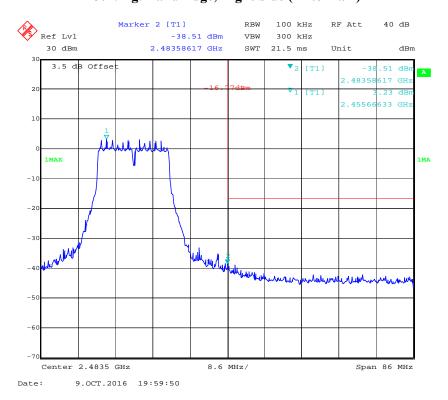
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802.11g: Band Edge, Left Side (Antenna 1)

Report No.: RSZ160818001-00B



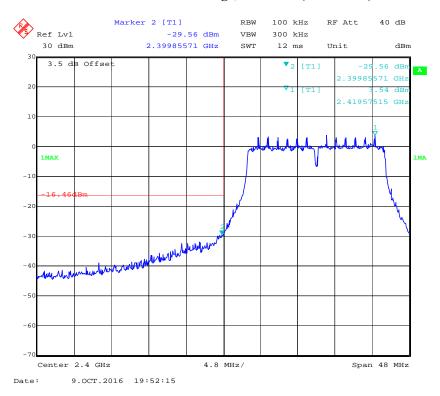
802.11g: Band Edge, Right Side (Antenna 1)



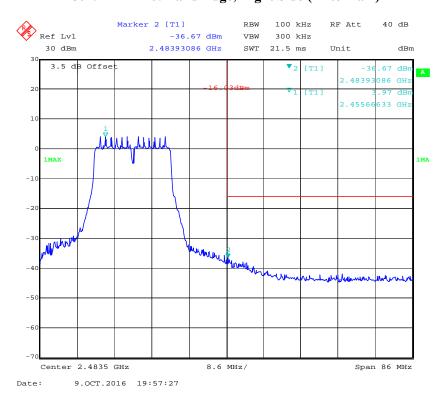
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802.11n-HT20: Band Edge, Left Side (Antenna 1)

Report No.: RSZ160818001-00B



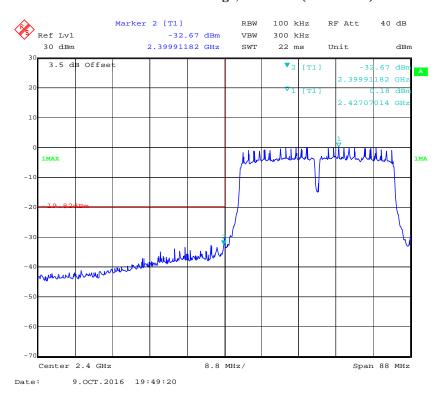
802.11n-HT20: Band Edge, Right Side (Antenna 1)



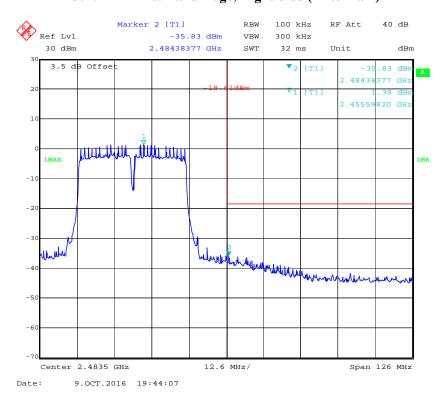
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802.11n-HT40: Band Edge, Left Side (Antenna 1)

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802.11n-HT40: Band Edge, Right Side (Antenna 1)



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FCC §15.247(e) - POWER SPECTRAL DENSITY

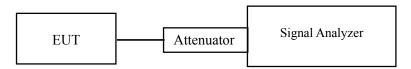
Applicable Standard

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. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

Report No.: RSZ160818001-00B

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 to: $3kHz \le RBW \le 100 \text{ kHz}$.
- 3. Set the VBW $> 3 \times RBW$.
- 4. Set the span to 1.5 times the DTS 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 within the RBW.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



Test Data

Environmental Conditions

Temperature:	24°C 53 %		
Relative Humidity:			
ATM Pressure:	101.0 kPa		

The testing was performed by Chris Wang on 2016-10-09.

EUT operation mode: Transmitting

Test Result: Pass

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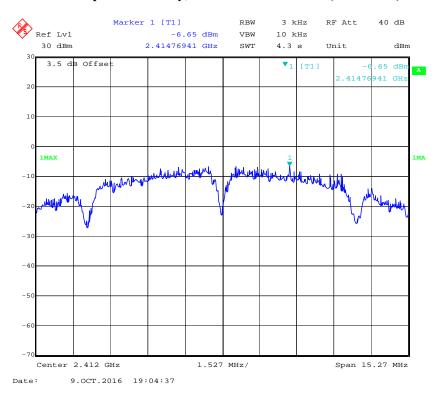
Channel	Frequency (MHz)		Limit		
Channel		Antenna 0	(dBm/3kHz) Antenna 1	Total	(dBm/3kHz)
		802.1	1b mode		
Low	2412	-6.65	-5.93	/	≤8
Middle	2437	-5.74	-4.47	/	€8
High	2462	-6.49	-6.09	/	≤8
		802	2.11g		•
Low	2412	-11.83	-11.33	/	≤8
Middle	2437	-10.61	-10.3	/	≤8
High	2462	-12.04	-11.66	/	≤8
		802.1	ln HT20		•
Low	2412	-10.61	-10.54	-7.56	≤8
Middle	2437	-10.71	-9.82	-7.23	≤8
High	2462	-11.42	-9.31	-7.23	≤8
	-	802.1	ln HT40		
Low	2422	-15.28	-14.69	-11.96	≤8
Middle	2437	-15.38	-12.94	-10.98	≤8
High	2452	-14.53	-12.87	-10.61	≪8

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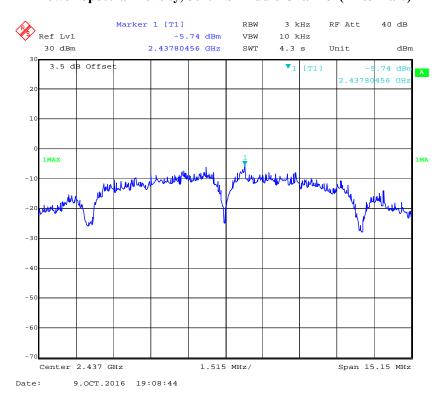
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Power Spectral Density, 802.11b Low Channel (Antenna 0)

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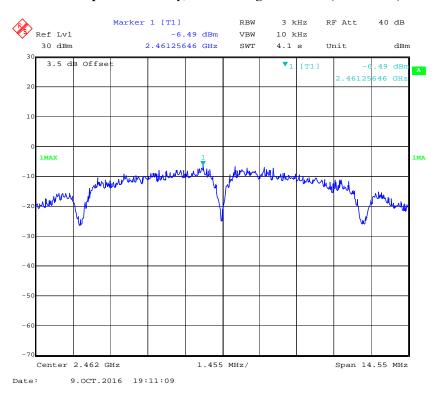
Power Spectral Density, 802.11b Middle Channel (Antenna 0)



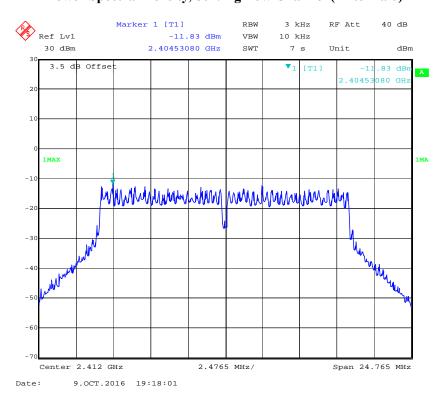
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Power Spectral Density, 802.11b High Channel (Antenna 0)

Report No.: RSZ160818001-00B



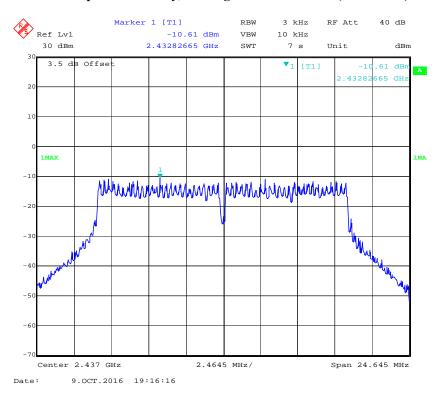
Power Spectral Density, 802.11g Low Channel (Antenna 0)



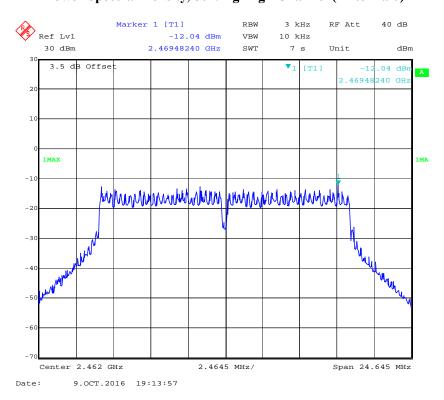
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Power Spectral Density, 802.11g Middle Channel (Antenna 0)

Report No.: RSZ160818001-00B



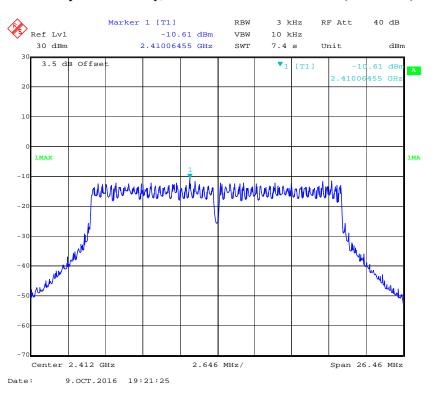
Power Spectral Density, 802.11g High Channel (Antenna 0)



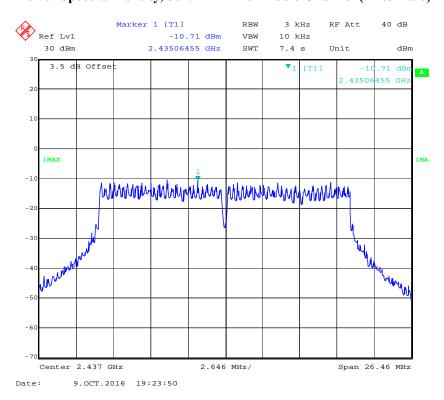
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Power Spectral Density, 802.11n-HT20 Low Channel (Antenna 0)

Report No.: RSZ160818001-00B



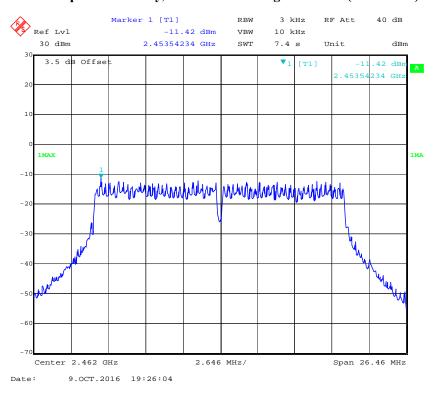
Power Spectral Density, 802.11n-HT20 Middle Channel (Antenna 0)



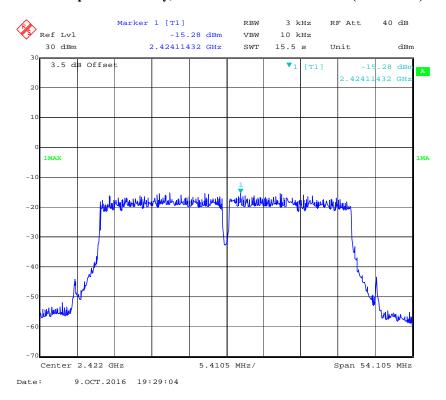
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Power Spectral Density, 802.11n-HT20 High Channel (Antenna 0)

Report No.: RSZ160818001-00B



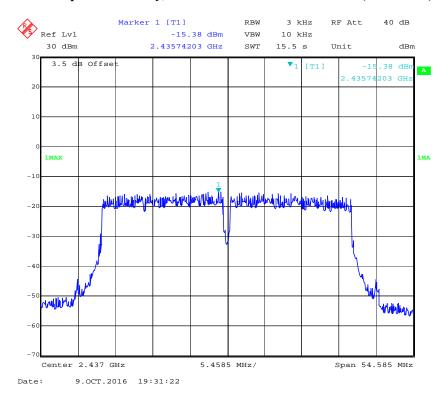
Power Spectral Density, 802.11n-HT40 Low Channel (Antenna 0)



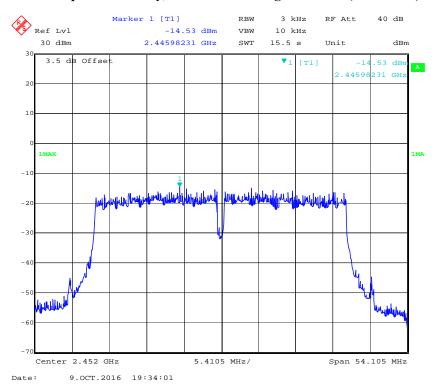
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Power Spectral Density, 802.11n-HT40 Middle Channel (Antenna 0)

Report No.: RSZ160818001-00B



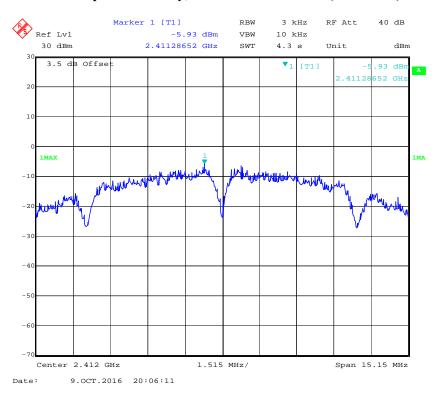
Power Spectral Density, 802.11n-HT40 High Channel (Antenna 0)



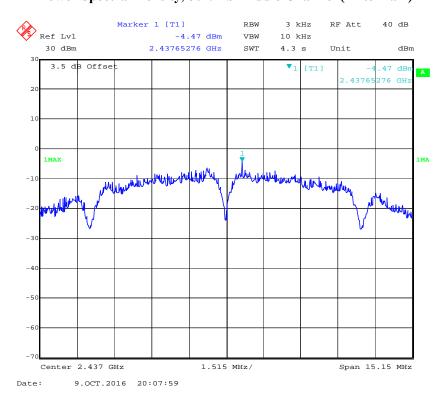
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Power Spectral Density, 802.11b Low Channel (Antenna 1)

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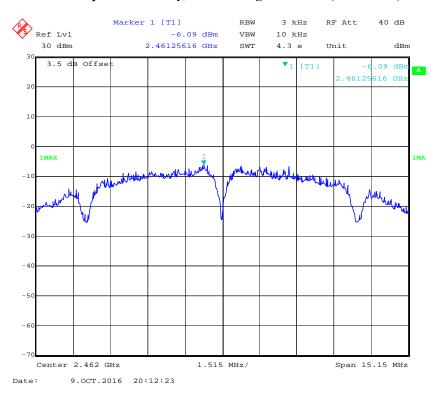
Power Spectral Density, 802.11b Middle Channel (Antenna 1)



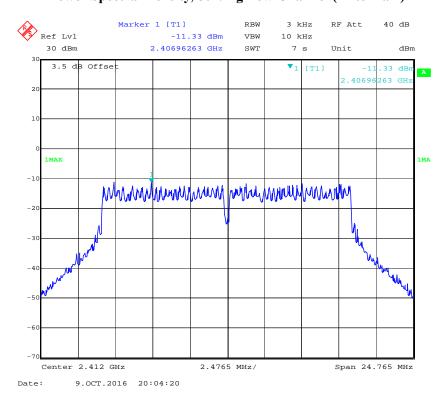
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Power Spectral Density, 802.11b High Channel (Antenna 1)

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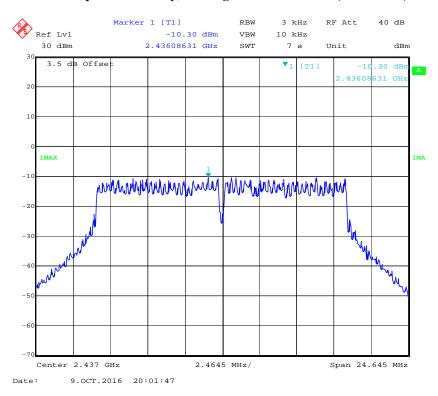
Power Spectral Density, 802.11g Low Channel (Antenna 1)



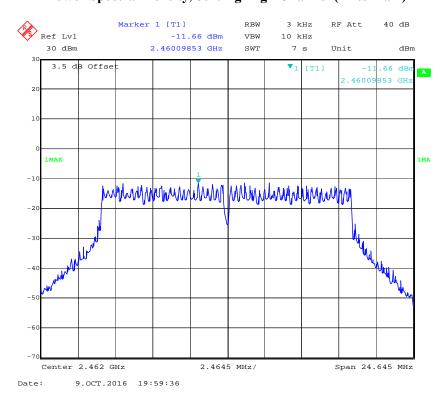
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Power Spectral Density, 802.11g Middle Channel (Antenna 1)

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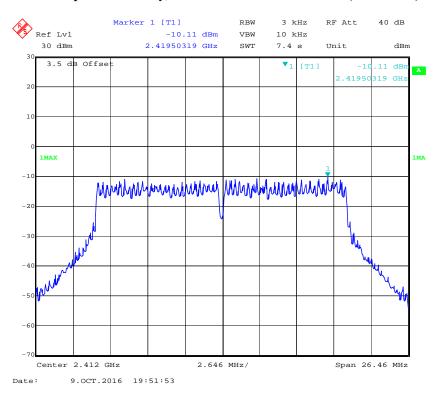
Power Spectral Density, 802.11g High Channel (Antenna 1)



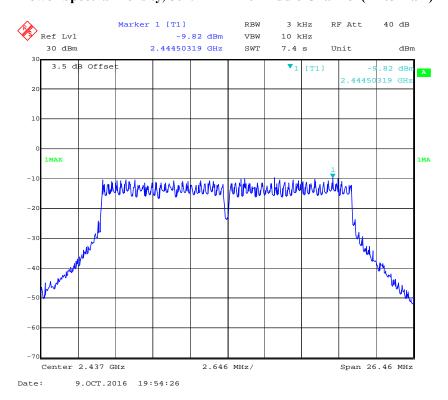
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Power Spectral Density, 802.11n-HT20 Low Channel (Antenna 1)

Report No.: RSZ160818001-00B



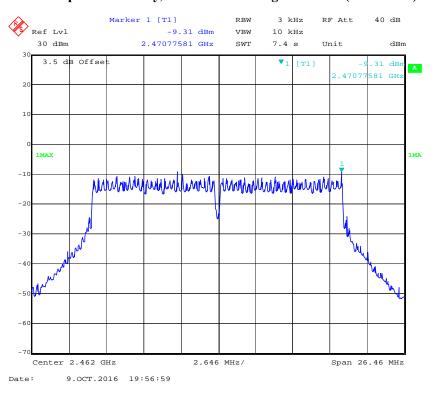
Power Spectral Density, 802.11n-HT20 Middle Channel (Antenna 1)



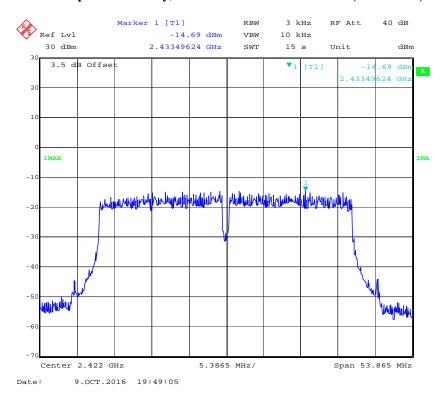
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Power Spectral Density, 802.11n-HT20 High Channel (Antenna 1)

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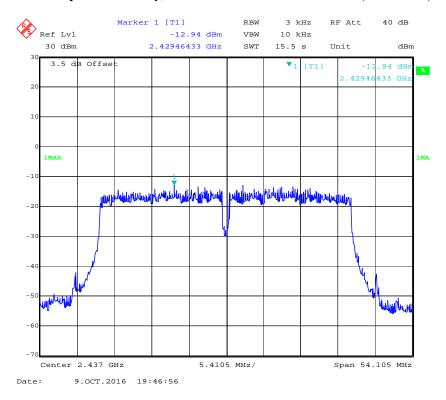
Power Spectral Density, 802.11n-HT40 Low Channel (Antenna 1)



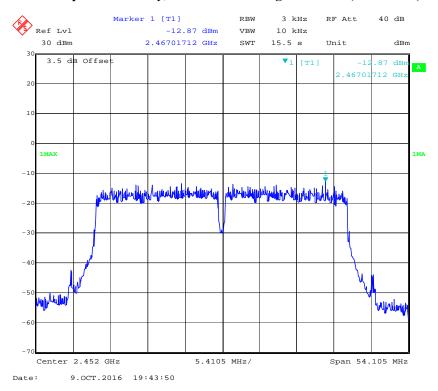
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Power Spectral Density, 802.11n-HT40 Middle Channel (Antenna 1)

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Power Spectral Density, 802.11n-HT40 High Channel (Antenna 1)



***** END OF REPORT *****

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