



FCC PART 15.247

TEST REPORT

For

High-Flying Electronics Technology Co., Ltd.

Room 1002, Building 1, No.3000, Longdong Avenue,, Pudong New Area, Shanghai, China

FCC ID: 2ACSV-HF2211

Report Type: Original Report	Product Type: Wi-Fi Serial Device Server
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Report Number: <u>RKS170630004-00A</u>	
Report Date: <u>2017-07-17</u>	
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant	High-Flying Electronics Technology Co., Ltd.
Tested Model	HF2211
Product Type	Wi-Fi Serial Device Server
Dimension	95 mm(L)×65 mm(W)×25 mm(H)
Power Supply	DC 5-36V supplied by DC power supply

**All measurement and test data in this report was gathered from production sample serial number: 20170630003.
(Assigned by the BACL. The EUT supplied by the applicant was received on 2017-06-30)*

Objective

This report is prepared on behalf of High-Flying Electronics Technology Co., Ltd. in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commissions 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)

FCC Part 15B JBP submissions with FCC ID: 2ACSV-HF2211.

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 and FCC KDB558074 D01 DTS Meas Guidance v04.

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.

Measurement Uncertainty

Item	Uncertainty	
AC Power Lines Conducted Emissions	3.19 dB	
RF conducted test with spectrum	0.9dB	
RF Output Power with Power meter	0.5dB	
Radiated emission	30MHz~1GHz	6.11dB
	1GHz~6GHz	4.45dB
	6GHz~18GHz	5.23dB
Occupied Bandwidth	0.5kHz	
Temperature	1.0°C	
Humidity	6%	

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road,Kunshan,Jiangsu province,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 C63.4-2014.

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.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

For 802.11b, 802.11g and 802.11n-HT20 mode, 11 channels are provided for 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	2442	/	/

For 802.11b, 802.11g, 802.11n-HT20 mode, EUT was tested with Channel 1, 6 and 11.

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

Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	8	2447
4	2427	9	2452
5	2432	/	/
6	2437	/	/
7	2442	/	/

EUT was tested with Channel 3, 6 and 9.

Equipment Modifications

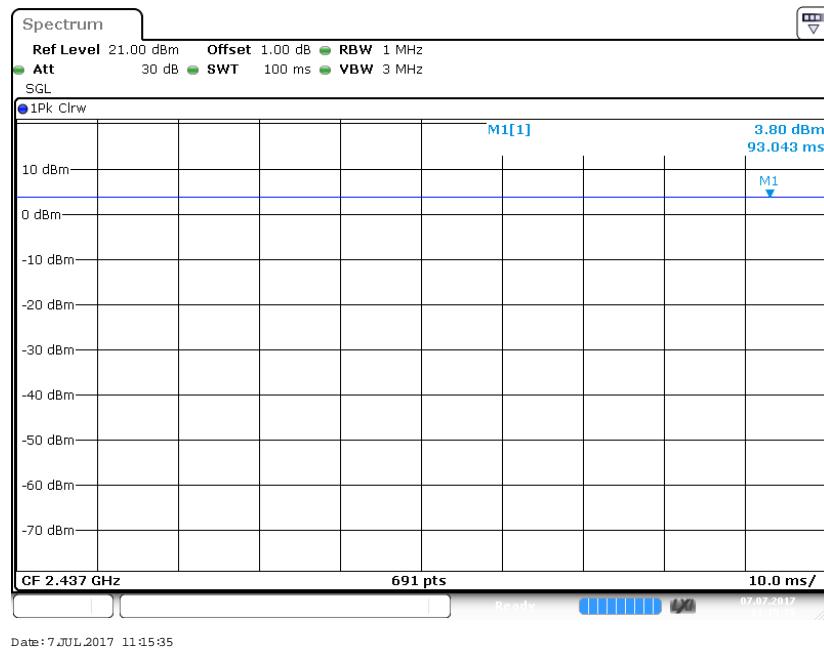
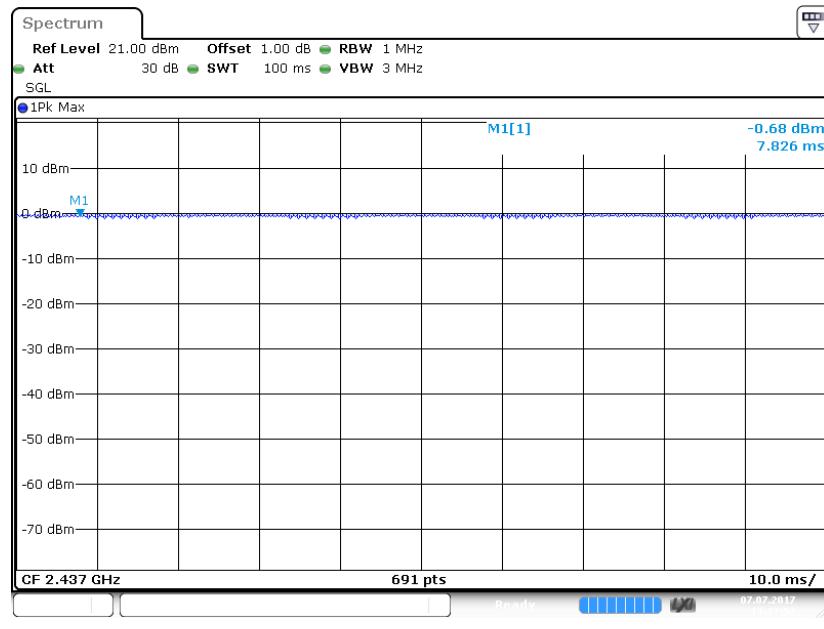
No modification was made to the EUT tested.

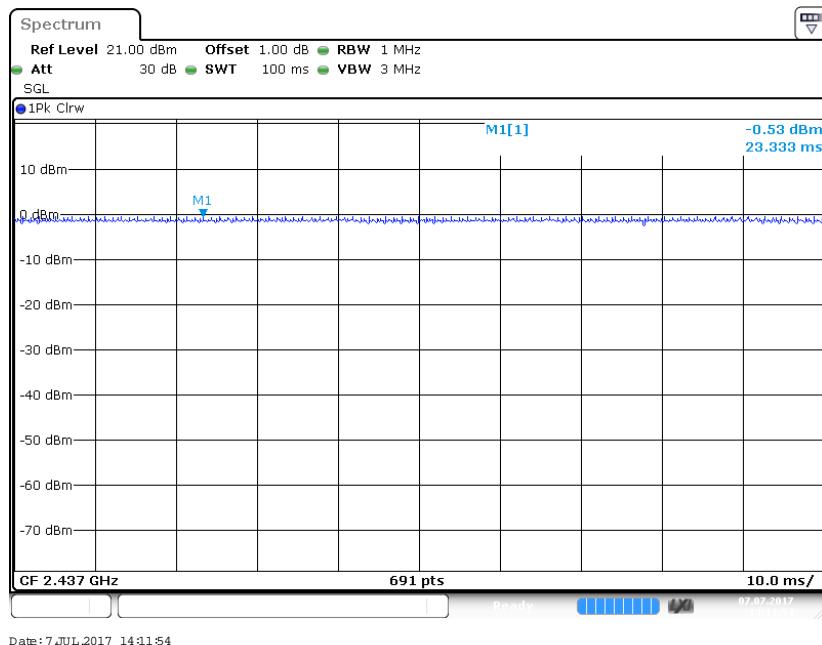
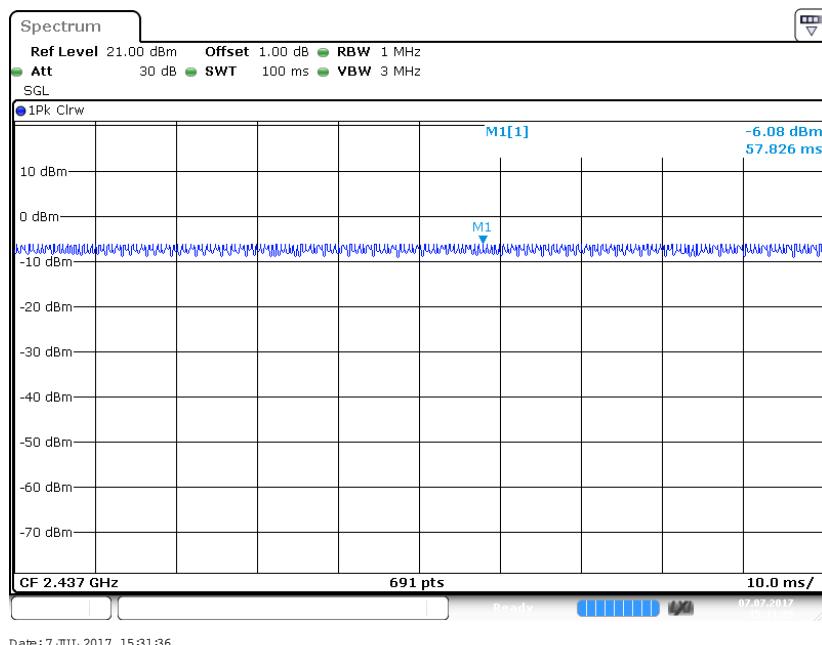
EUT Exercise Software

RF test tool : Ralink QA Test Program

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

Mode	Data rate	Power level
802.11b	1 Mbps	13
802.11g	6 Mbps	11
802.11n-HT20	MCS0	9
802.11n-HT40	MCS0	9

Duty Cycle**802.11b Mode Middle Channel****802.11g Mode Middle Channel**

802.11n-HT20 Mode Middle Channel**802.11n-HT40 Mode Middle Channel**

Mode	Duty Cycle	T(us)	1/T(kHz)	VBW Setting	10log(1/x)
802.11b	100%	/	/	10Hz	0
802.11g	100%	/	/	10Hz	0
802.11n-HT20	100%	/	/	10Hz	0
802.11n-HT40	100%	/	/	10Hz	0

Support Equipment List and Details

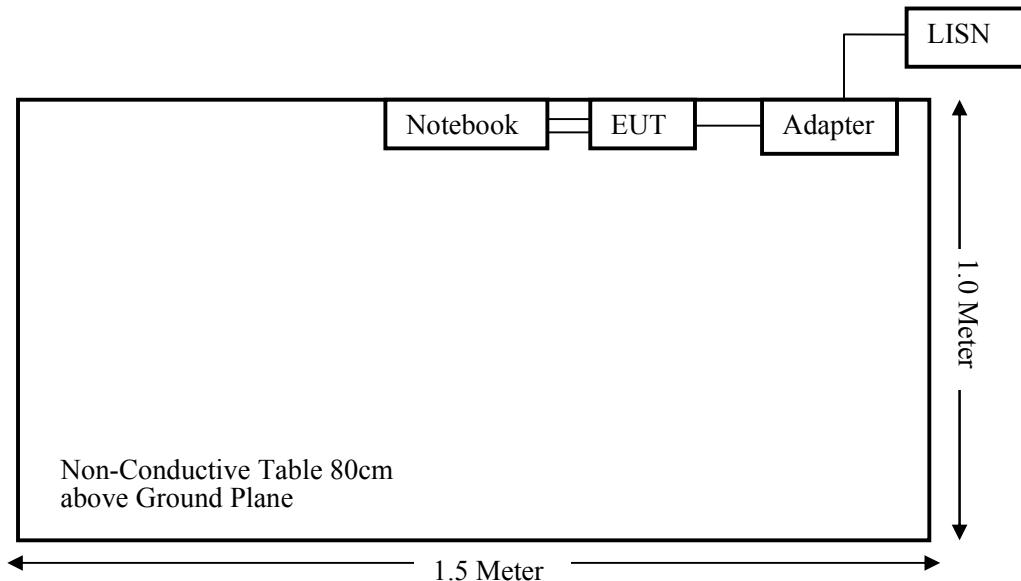
Manufacturer	Description	Model	Serial Number
Lenovo	Adapter	ADP-65KH B	/
DELL	Notebook	GX620	D65874152

External I/O Cable

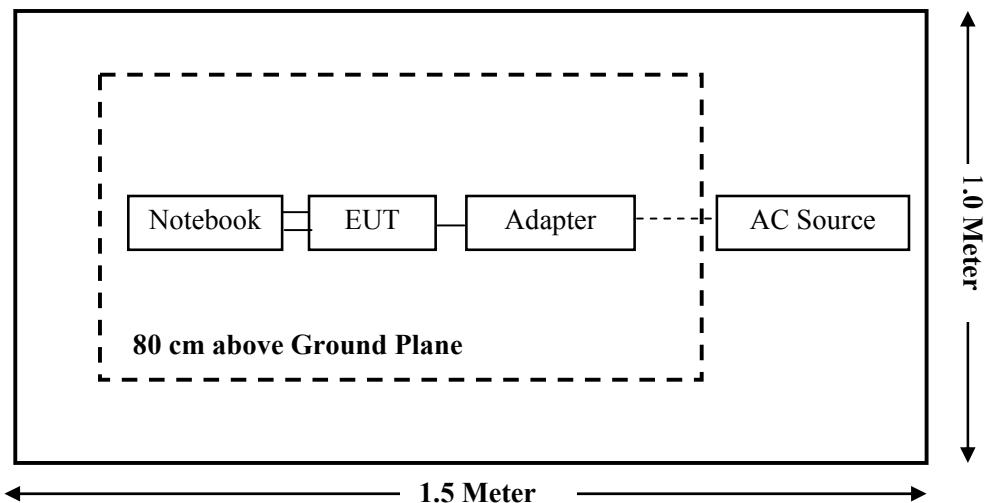
Cable Description	Shielding Type	Length (m)	From/Port	To
Power Cable	Un-shielding	1.0	EUT	Adapter
RJ45 Cable	Un-shielding	0.8	EUT	Notebook
RS232 Cable	Un-shielding	1.0	EUT	Notebook

Block Diagram of Test Setup

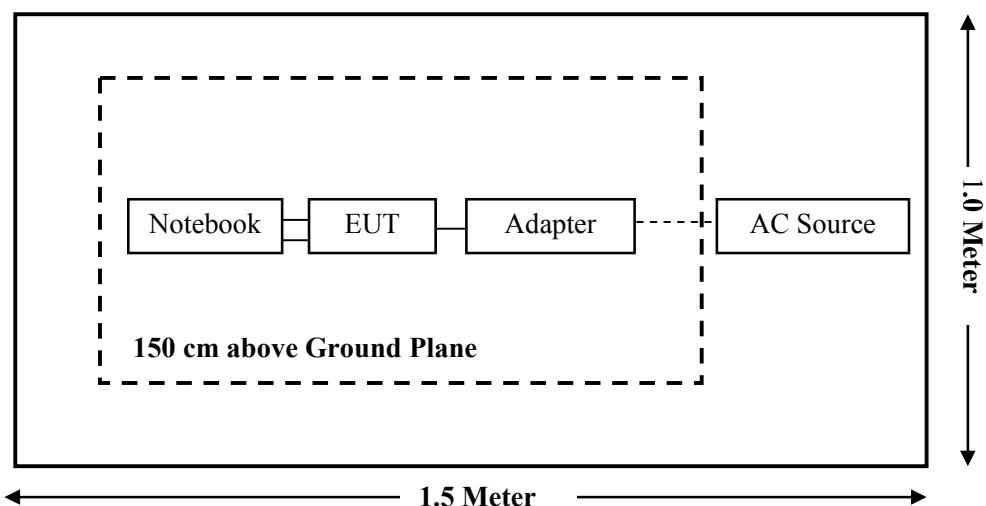
For Conducted Emissions:



For Radiated Emissions (Below 1GHz):



For Radiated Emissions (Above 1GHz):



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (i), §1.1310 & §2.1091	Maximum Permissible Exposure (MPE)	Compliance
§15.203	Antenna Requirement	Compliance
§15.207 (a)	AC Line Conducted Emissions	Compliance
§15.247(d)	Spurious Emissions at Antenna Port	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

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2016-11-25	2017-11-24
Rohde & Schwarz	Signal Analyzer	FSIQ26	100048	2016-11-25	2017-11-24
Sunol Sciences	Broadband Antenna	JB3	A090314-2	2016-01-09	2019-01-08
ETS	Horn Antenna	3115	6229	2016-01-11	2019-01-10
ETS-LINDGREN	Horn Antenna	3116	00084159	2016-10-18	2019-10-17
Sonoma Instrument	Pre-amplifier	330	171377	2016-12-12	2017-12-11
Narda	Pre-amplifier	AFS42-00101800	2001270	2016-12-12	2017-12-11
Heatsink Required	Amplifier	QLW-18405536-J0	15964001009	2016-12-12	2017-12-11
R&S	Auto test Software	EMC32	100361	/	/
Haojintech	Coaxial Cable	Cable-1	001	2016-12-12	2017-12-11
Haojintech	Coaxial Cable	Cable-2	002	2016-12-12	2017-12-11
Haojintech	Coaxial Cable	Cable-3	003	2016-12-12	2017-12-11
MICRO-COAX	Coaxial Cable	Cable-4	004	2016-12-12	2017-12-11
MICRO-COAX	Coaxial Cable	Cable-5	005	2016-12-12	2017-12-11
RF Conducted Test					
Rohde & Schwarz	Signal Analyzer	FSV40	101116	2017-07-04	2018-07-03
Agilent	Power Meter	N1912A	MY5000492	2016-11-18	2017-11-17
Agilent	Power Sensor	N1921A	MY54210024	2016-11-18	2017-11-17
High-Flying	RF Cable	N/A	N/A	2017-07-07	2018-07-06
Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2016-11-25	2017-11-24
Rohde & Schwarz	LISN	ESH3-Z5	862770/011	2016-10-10	2017-10-09
ROHDE&SCHWARZ	LISN	ENV216	3560655016	2016-11-25	2017-11-24
Rohde & Schwarz	CE Test software	EMC 32	100357	/	/
MICRO-COAX	Coaxial Cable	Cable-6	006	2016-09-08	2017-09-07

*** 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), §1.1310& §2.1091 –MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart 15.247(i)and subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) 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; * = Plane-wave equivalent power density;
According to §1.1310 and §2.1091 RF exposure is calculated.

Calculated Formulary:

Predication of MPE limit at a given distance

S = PG/4 π R² = 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);

Calculated Data:

Mode	Frequency Range (MHz)	Antenna Gain		Target Output Power (dBm)	Output Power		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)		(dBm)	(mW)			
802.11b	2412~2462	3.00	2.00	10±0.5	10.50	11.22	20	0.0045	1.0
802.11g		3.00	2.00	6±0.5	6.50	4.47	20	0.0018	1.0
802.11n-HT20		3.00	2.00	4.5±0.5	5.00	3.16	20	0.0013	1.0
802.11n-HT40	2422~2452	3.00	2.00	4.5±0.5	5.00	3.16	20	0.0013	1.0

Note: For the above target output power are all declared by the manufacturer.

Result: The device meet FCC MPE at 20 cm distance.

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:

- 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 a RP-SMA connector to attach an external antenna arrangement, which the antenna gain is 3.0 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

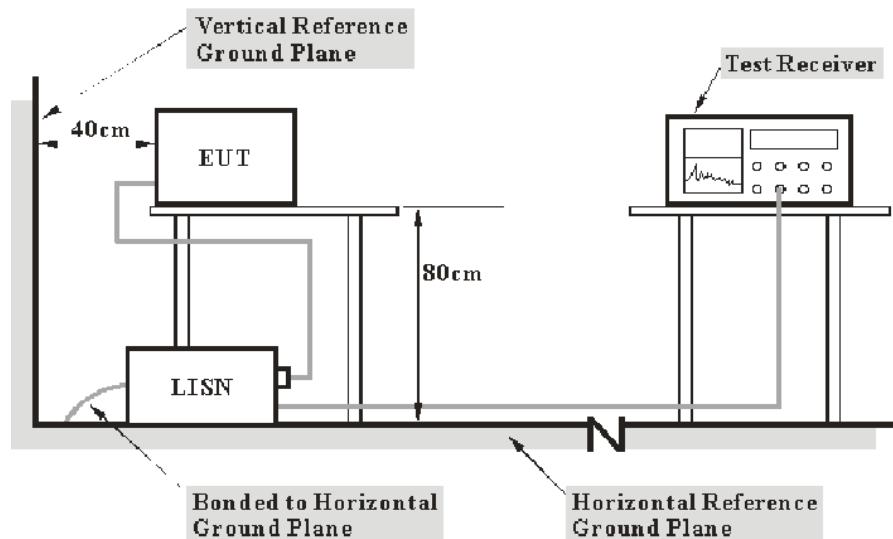
Result: Compliance.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207

EUT Setup



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.

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

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:

$$\text{Correction Factor} = \text{LISN VDF} + \text{Cable Loss}$$

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:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Results Summary

According to the recorded data in following table, the EUT complied with the [FCC Part 15.207](#).

Test Data

Environmental Conditions

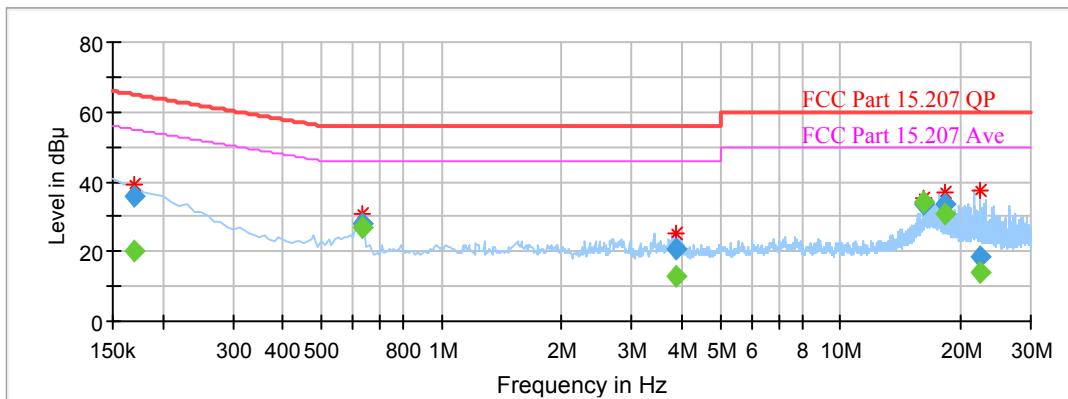
Temperature:	24.5 °C
Relative Humidity:	51 %
ATM Pressure:	101.0 kPa

The testing was performed by Ada Yu on 2017-07-07.

EUT operation mode: Transmitting in 802.11b mode low channel

AC 120V/60 Hz, Line

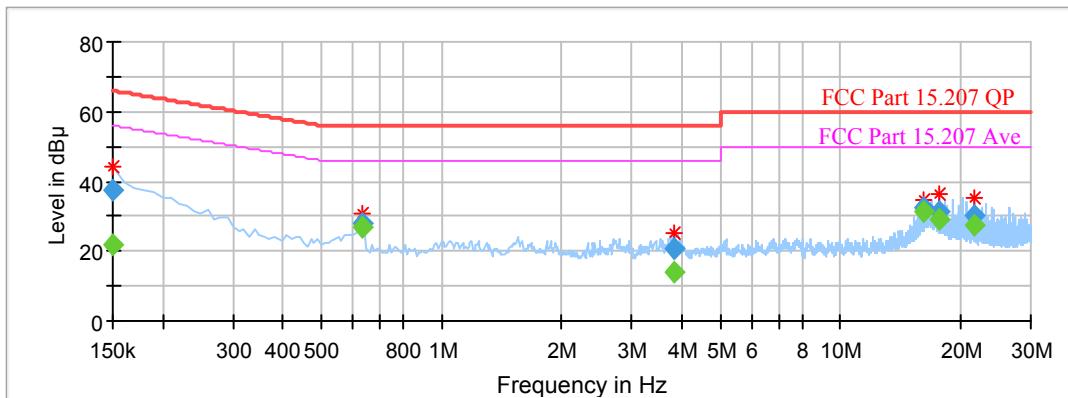
Full Spectrum



Frequency (MHz)	QuasiPeak (dB μ V)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.170000	---	19.94	9.000	L1	10.1	35.02	54.96	Compliance
0.170000	35.60	---	9.000	L1	10.1	29.36	64.96	Compliance
0.630000	---	26.62	9.000	L1	10.0	19.38	46.00	Compliance
0.630000	28.03	---	9.000	L1	10.0	27.97	56.00	Compliance
3.860000	---	13.06	9.000	L1	9.9	32.94	46.00	Compliance
3.860000	20.83	---	9.000	L1	9.9	35.17	56.00	Compliance
16.230000	---	33.76	9.000	L1	10.0	16.24	50.00	Compliance
16.230000	33.88	---	9.000	L1	10.0	26.12	60.00	Compliance
18.240000	---	31.04	9.000	L1	10.1	18.96	50.00	Compliance
18.240000	33.34	---	9.000	L1	10.1	26.66	60.00	Compliance
22.360000	---	13.83	9.000	L1	10.2	36.17	50.00	Compliance
22.360000	18.55	---	9.000	L1	10.2	41.45	60.00	Compliance

AC 120V/60 Hz, Neutral

Full Spectrum



Frequency (MHz)	QuasiPeak (dB μ V)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.150000	---	21.65	9.000	N	10.1	34.35	56.00	Compliance
0.150000	37.61	---	9.000	N	10.1	28.39	66.00	Compliance
0.630000	---	26.66	9.000	N	10.0	19.34	46.00	Compliance
0.630000	27.89	---	9.000	N	10.0	28.11	56.00	Compliance
3.850000	---	13.77	9.000	N	9.9	32.23	46.00	Compliance
3.850000	20.96	---	9.000	N	9.9	35.04	56.00	Compliance
16.230000	---	31.05	9.000	N	10.1	18.95	50.00	Compliance
16.230000	32.47	---	9.000	N	10.1	27.53	60.00	Compliance
17.690000	---	29.36	9.000	N	10.1	20.64	50.00	Compliance
17.690000	31.18	---	9.000	N	10.1	28.82	60.00	Compliance
21.660000	---	27.50	9.000	N	10.2	22.50	50.00	Compliance
21.660000	30.33	---	9.000	N	10.2	29.67	60.00	Compliance

Note:

- 1) Corr.=LISN VDF (Voltage Division Factor) + Cable Loss
- 2) Corrected Amplitude = Reading + Corr.
- 3) Margin = Limit -Corrected Amplitude

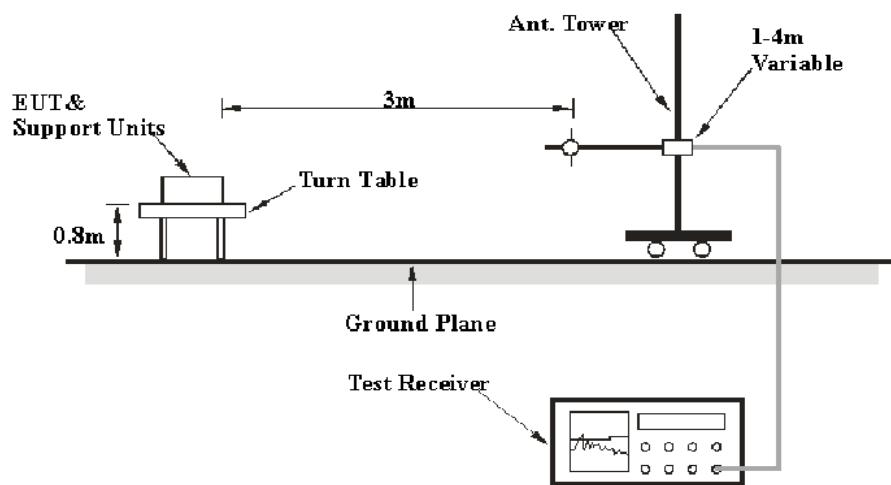
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

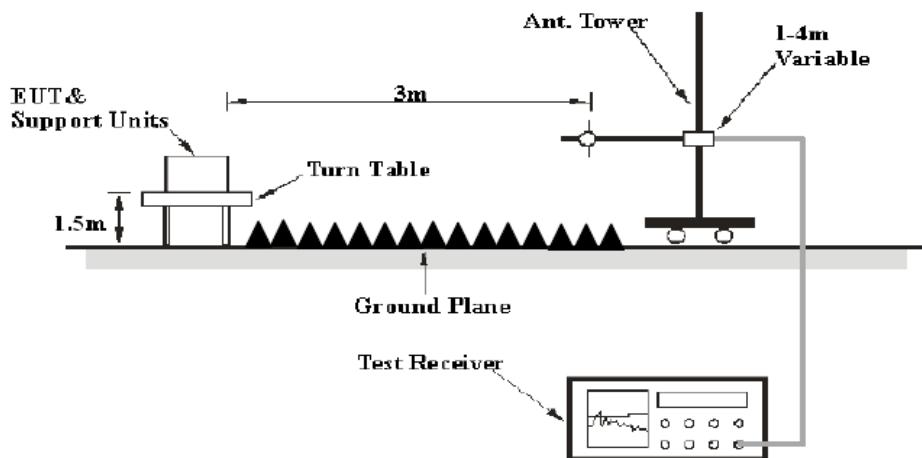
FCC §15.247 (d); §15.209; §15.205;

EUT Setup

Below 1 GHz:



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.

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	120 kHz	300 kHz	120 kHz	QP

Frequency Range	RBW	Video B/W	Duty cycle	Detector
1GHz – 25GHz	1MHz	3 MHz	Any	PK
	1MHz	10 Hz	>98%	Ave.
	1MHz	1/T	<98%	

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:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

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:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Results Summary

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

Test Data

Environmental Conditions

Temperature:	24.8 °C
Relative Humidity:	51 %
ATM Pressure:	101.0 kPa

The testing was performed by Ada Yu on 2017-07-07.

EUT operation mode: Transmitting(Scan with X-Axis, Y-Axis and Z-Axis position, the worst case X-Axis was recorded)

30MHz-25GHz

802.11b Mode:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.247/205/209	
	Reading (dB μ V)	Detector (PK/QP/Ave.)		Height (cm)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
Low Channel (2412 MHz)									
720.61	34.27	QP	66	189	H	1.33	35.60	46	10.40
2412.00	108.19	PK	360	156	V	-6.17	102.02	/	/
2412.00	104.26	Ave	360	156	V	-6.17	98.09	/	/
2412.00	106.87	PK	66	221	H	-6.17	100.70	/	/
2412.00	102.35	Ave	66	221	H	-6.17	96.18	/	/
2390.00	41.27	PK	151	130	H	-6.22	35.05	74	38.95
2390.00	28.46	Ave	151	130	H	-6.22	22.24	54	31.76
3917.51	45.27	PK	8	122	V	-0.57	44.70	74	29.30
3917.51	39.16	Ave	8	122	V	-0.57	38.59	54	15.41
1735.23	43.65	PK	206	115	V	-8.35	35.30	74	38.70
1735.23	29.37	Ave	206	115	V	-8.35	21.02	54	32.98
4824.00	48.42	PK	52	211	V	1.66	50.08	74	23.92
4824.00	43.19	Ave	52	211	V	1.66	44.85	54	9.15
7236.00	39.36	PK	279	124	V	7.58	46.94	74	27.06
7236.00	24.65	Ave	279	124	V	7.58	32.23	54	21.77

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.247/205/209	
	Reading (dB μ V)	Detector (PK/QP/Ave.)		Height (cm)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
Middle Channel (2437 MHz)									
720.61	33.79	QP	312	217	H	1.33	35.12	46	10.88
2437.00	107.64	PK	270	158	V	-6.11	101.53	/	/
2437.00	104.64	Ave	270	158	V	-6.11	98.53	/	/
2437.00	107.17	PK	212	126	H	-6.11	101.06	/	/
2437.00	103.03	Ave	212	126	H	-6.11	96.92	/	/
1365.79	44.16	PK	81	234	H	-10.26	33.90	74	40.10
1365.79	39.56	Ave	81	234	H	-10.26	29.30	54	24.70
3725.61	43.17	PK	146	108	V	-1.20	41.97	74	32.03
3725.61	28.94	Ave	146	108	V	-1.20	27.74	54	26.26
4874.00	47.60	PK	260	211	V	1.77	49.37	74	24.63
4874.00	44.18	Ave	260	211	V	1.77	45.95	54	8.05
6198.35	43.54	PK	10	108	H	4.80	48.34	74	25.66
6198.35	29.18	Ave	10	108	H	4.80	33.98	54	20.02
7311.00	39.32	PK	249	199	H	7.66	46.98	74	27.02
7311.00	24.61	Ave	249	199	H	7.66	32.27	54	21.73
High Channel (2462 MHz)									
720.61	32.83	QP	29	178	H	1.33	34.16	46	11.84
2462.00	108.04	PK	286	232	V	-6.06	101.98	/	/
2462.00	104.74	Ave	286	232	V	-6.06	98.68	/	/
2462.00	106.10	PK	69	145	H	-6.06	100.04	/	/
2462.00	102.80	Ave	69	145	H	-6.06	96.74	/	/
2483.50	49.07	PK	359	157	H	-6.01	43.06	74	30.94
2483.50	44.89	Ave	359	157	H	-6.01	38.88	54	15.12
1735.21	43.79	PK	228	176	V	-8.35	35.44	74	38.56
1735.21	29.55	Ave	228	176	V	-8.35	21.20	54	32.80
4924.00	47.45	PK	105	238	V	1.89	49.34	74	24.66
4924.00	43.56	Ave	105	238	V	1.89	45.45	54	8.55
6410.29	44.16	PK	177	163	H	5.58	49.74	74	24.26
6410.29	30.11	Ave	177	163	H	5.58	35.69	54	18.31
7386.00	39.29	PK	240	115	H	7.73	47.02	74	26.98
7386.00	24.63	Ave	240	115	H	7.73	32.36	54	21.64

802.11g Mode:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.247/205/209	
	Reading (dB μ V)	Detector (PK/QP/Ave.)		Height (cm)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
Low Channel (2412 MHz)									
720.61	33.94	QP	305	130	H	1.33	35.27	46	10.73
2412.00	101.36	PK	200	161	V	-6.17	95.19	/	/
2412.00	97.28	Ave	200	161	V	-6.17	91.11	/	/
2412.00	101.32	PK	29	226	H	-6.17	95.15	/	/
2412.00	96.98	Ave	29	226	H	-6.17	90.81	/	/
2390.00	41.20	PK	99	208	H	-6.22	34.98	74	39.02
2390.00	28.41	Ave	99	208	H	-6.22	22.19	54	31.81
3621.08	45.31	PK	34	239	V	-1.54	43.77	74	30.23
3621.08	39.22	Ave	34	239	V	-1.54	37.68	54	16.32
1604.24	43.71	PK	54	215	V	-8.99	34.72	74	39.28
1604.24	29.28	Ave	54	215	V	-8.99	20.29	54	33.71
4824.00	48.48	PK	71	176	H	1.66	50.14	74	23.86
4824.00	43.18	Ave	71	176	H	1.66	44.84	54	9.16
7236.00	39.43	PK	86	200	H	7.58	47.01	74	26.99
7236.00	24.64	Ave	86	200	H	7.58	32.22	54	21.78
Middle Channel (2437 MHz)									
720.61	33.21	QP	302	172	H	1.33	34.54	46	11.46
2437.00	101.29	PK	276	155	V	-6.11	95.18	/	/
2437.00	97.36	Ave	276	155	V	-6.11	91.25	/	/
2437.00	101.08	PK	85	248	H	-6.11	94.97	/	/
2437.00	96.61	Ave	85	248	H	-6.11	90.50	/	/
1604.24	44.13	PK	314	215	H	-8.99	35.14	74	38.86
1604.24	39.55	Ave	314	215	H	-8.99	30.56	54	23.44
3211.56	43.23	PK	28	140	V	-2.69	40.54	74	33.46
3211.56	28.87	Ave	28	140	V	-2.69	26.18	54	27.82
4874.00	47.87	PK	235	231	V	1.77	49.64	74	24.36
4874.00	42.27	Ave	235	231	V	1.77	44.04	54	9.96
6451.33	43.61	PK	89	210	H	5.73	49.34	74	24.66
6451.33	29.12	Ave	89	210	H	5.73	34.85	54	19.15
7311.00	39.23	PK	313	122	H	7.66	46.89	74	27.11
7311.00	24.67	Ave	313	122	H	7.66	32.33	54	21.67

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.247/205/209	
	Reading (dB μ V)	Detector (PK/QP/Ave.)		Height (cm)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
High Channel (2462 MHz)									
720.61	32.46	QP	258	107	H	1.33	33.79	46	12.21
2462.00	101.39	PK	228	247	V	-6.06	95.33	/	/
2462.00	97.84	Ave	228	247	V	-6.06	91.78	/	/
2462.00	101.28	PK	56	129	H	-6.06	95.22	/	/
2462.00	96.92	Ave	56	129	H	-6.06	90.86	/	/
2483.50	49.04	PK	246	199	H	-6.01	43.03	74	30.97
2483.50	44.89	Ave	246	199	H	-6.01	38.88	54	15.12
1604.24	43.73	PK	218	237	V	-8.99	34.74	74	39.26
1604.24	29.52	Ave	218	237	V	-8.99	20.53	54	33.47
4924.00	49.09	PK	221	202	V	1.89	50.98	74	23.02
4924.00	42.33	Ave	221	202	V	1.89	44.22	54	9.78
6451.33	44.13	PK	115	190	H	5.73	49.86	74	24.14
6451.33	30.12	Ave	115	190	H	5.73	35.85	54	18.15
7386.00	39.34	PK	25	105	H	7.73	47.07	74	26.93
7386.00	24.63	Ave	25	105	H	7.73	32.36	54	21.64

802.11n-HT20 Mode:

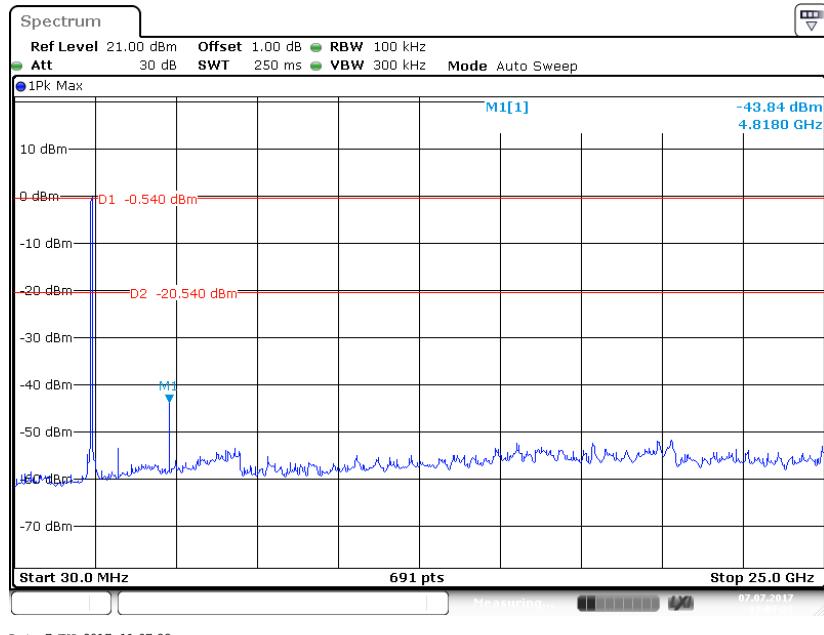
Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.247/205/209	
	Reading (dB μ V)	Detector (PK/QP/Ave.)		Height (cm)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
Low Channel (2412 MHz)									
720.61	34.25	QP	143	120	H	1.33	35.58	46	10.42
2412.00	98.34	PK	301	153	V	-6.17	92.17	/	/
2412.00	93.56	Ave	301	153	V	-6.17	87.39	/	/
2412.00	98.75	PK	80	129	H	-6.17	92.58	/	/
2412.00	94.29	Ave	80	129	H	-6.17	88.12	/	/
2390.00	41.20	PK	74	219	H	-6.22	34.98	74	39.02
2390.00	28.47	Ave	74	219	H	-6.22	22.25	54	31.75
3790.25	45.31	PK	359	177	V	-0.99	44.32	74	29.68
3790.25	39.20	Ave	359	177	V	-0.99	38.21	54	15.79
1604.24	43.64	PK	200	173	V	-8.99	34.65	74	39.35
1604.24	29.40	Ave	200	173	V	-8.99	20.41	54	33.59
4824.00	48.40	PK	101	245	H	1.66	50.06	74	23.94
4824.00	43.20	Ave	101	245	H	1.66	44.86	54	9.14
7236.00	39.41	PK	343	180	H	7.58	46.99	74	27.01
7236.00	24.75	Ave	343	180	H	7.58	32.33	54	21.67

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.247/205/209	
	Reading (dB μ V)	Detector (PK/QP/Ave.)		Height (cm)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
Middle Channel (2437 MHz)									
720.61	33.67	QP	320	247	H	1.33	35.00	46	11.00
2437.00	98.95	PK	264	244	V	-6.11	92.84	/	/
2437.00	93.18	Ave	264	244	V	-6.11	87.07	/	/
2437.00	98.64	PK	26	207	H	-6.11	92.53	/	/
2437.00	92.32	Ave	26	207	H	-6.11	86.21	/	/
1604.24	44.17	PK	301	205	H	-8.99	35.18	74	38.82
1604.24	39.57	Ave	301	205	H	-8.99	30.58	54	23.42
3211.56	43.20	PK	201	125	V	-2.69	40.51	74	33.49
3211.56	28.97	Ave	201	125	V	-2.69	26.28	54	27.72
4874.00	48.02	PK	237	181	V	1.77	49.79	74	24.21
4874.00	42.29	Ave	237	181	V	1.77	44.06	54	9.94
6451.33	43.45	PK	113	205	H	5.73	49.18	74	24.82
6451.33	29.13	Ave	113	205	H	5.73	34.86	54	19.14
7311.00	39.21	PK	69	249	H	7.66	46.87	74	27.13
7311.00	24.52	Ave	69	249	H	7.66	32.18	54	21.82
High Channel (2462 MHz)									
720.61	33.68	QP	343	236	H	1.33	35.01	46	10.99
2462.00	98.25	PK	153	218	V	-6.06	92.19	/	/
2462.00	93.39	Ave	153	218	V	-6.06	87.33	/	/
2462.00	92.96	PK	53	177	H	-6.06	86.90	/	/
2462.00	93.18	Ave	53	177	H	-6.06	87.12	/	/
2483.50	48.98	PK	66	140	H	-6.01	42.97	74	31.03
2483.50	44.92	Ave	66	140	H	-6.01	38.91	54	15.09
1604.24	43.78	PK	9	224	V	-8.99	34.79	74	39.21
1604.24	29.62	Ave	9	224	V	-8.99	20.63	54	33.37
4924.00	49.07	PK	86	212	V	1.89	50.96	74	23.04
4924.00	42.26	Ave	86	212	V	1.89	44.15	54	9.85
6451.33	44.22	PK	241	148	H	5.73	49.95	74	24.05
6451.33	30.03	Ave	241	148	H	5.73	35.76	54	18.24
7386.00	39.27	PK	19	119	H	7.73	47.00	74	27.00
7386.00	24.73	Ave	19	119	H	7.73	32.46	54	21.54

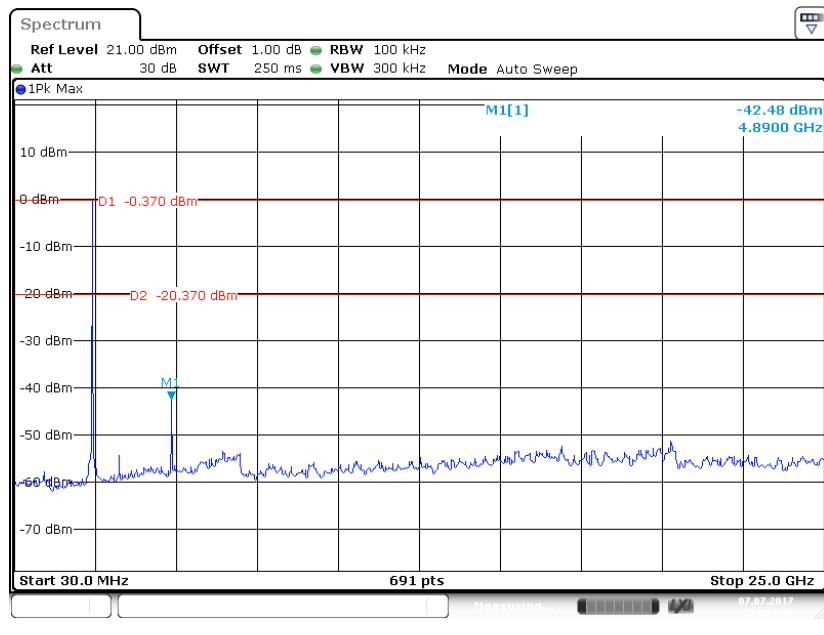
802.11n-HT40 Mode:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.247/205/209	
	Reading (dB μ V)	Detector (PK/QP/Ave.)		Height (cm)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
Low Channel (2422 MHz)									
720.61	33.66	QP	73	206	H	1.33	34.99	46	11.01
2422.00	95.85	PK	29	184	V	-6.14	89.71	/	/
2422.00	90.56	Ave	29	184	V	-6.14	84.42	/	/
2422.00	95.52	PK	277	201	H	-6.14	89.38	/	/
2422.00	89.97	Ave	277	201	H	-6.14	83.83	/	/
2390.00	41.30	PK	341	160	H	-6.22	35.08	74	38.92
2390.00	28.53	Ave	341	160	H	-6.22	22.31	54	31.69
3368.75	45.26	PK	283	132	V	-2.28	42.98	74	31.02
3368.75	39.11	Ave	283	132	V	-2.28	36.83	54	17.17
1604.24	43.55	PK	177	241	V	-8.99	34.56	74	39.44
1604.24	29.37	Ave	177	241	V	-8.99	20.38	54	33.62
4844.00	48.34	PK	59	212	H	1.70	50.04	74	23.96
4844.00	43.10	Ave	59	212	H	1.70	44.80	54	9.20
7266.00	39.38	PK	47	119	H	7.58	46.96	74	27.04
7266.00	24.70	Ave	47	119	H	7.58	32.28	54	21.72
Middle Channel (2437 MHz)									
720.61	33.67	QP	226	147	H	1.33	35.00	46	11.00
2437.00	95.51	PK	214	174	V	-6.11	89.40	/	/
2437.00	90.82	Ave	214	174	V	-6.11	84.71	/	/
2437.00	95.21	PK	283	165	H	-6.11	89.10	/	/
2437.00	90.02	Ave	283	165	H	-6.11	83.91	/	/
1604.24	44.20	PK	32	125	H	-8.99	35.21	74	38.79
1604.24	39.52	Ave	32	125	H	-8.99	30.53	54	23.47
3211.56	43.26	PK	157	158	V	-2.69	40.57	74	33.43
3211.56	28.95	Ave	157	158	V	-2.69	26.26	54	27.74
4874.00	47.99	PK	124	117	V	1.77	49.76	74	24.24
4874.00	42.23	Ave	124	117	V	1.77	44.00	54	10.00
6451.33	43.57	PK	135	236	H	5.73	49.30	74	24.70
6451.33	29.15	Ave	135	236	H	5.73	34.88	54	19.12
7311.00	39.26	PK	116	195	H	7.66	46.92	74	27.08
7311.00	24.67	Ave	116	195	H	7.66	32.33	54	21.67

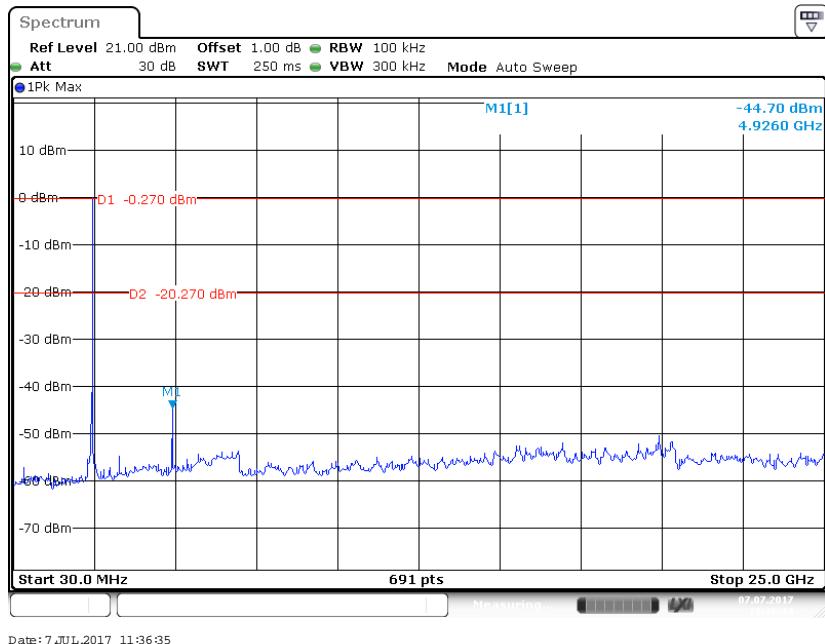
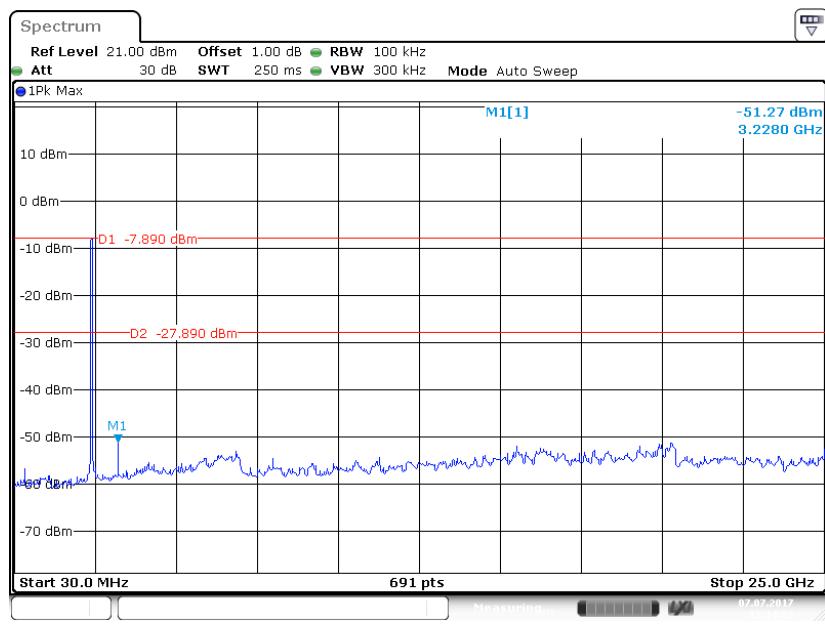
Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.247/205/209	
	Reading (dB μ V)	Detector (PK/QP/Ave.)		Height (cm)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
High Channel (2452 MHz)									
720.61	33.46	QP	249	147	H	1.33	34.79	46	11.21
2452.00	96.51	PK	147	191	V	-6.08	90.43	/	/
2452.00	91.03	Ave	147	191	V	-6.08	84.95	/	/
2452.00	95.89	PK	312	127	H	-6.08	89.81	/	/
2452.00	89.35	Ave	312	127	H	-6.08	83.27	/	/
2483.50	49.01	PK	291	129	H	-6.01	43.00	74	31.00
2483.50	44.80	Ave	291	129	H	-6.01	38.79	54	15.21
1604.24	43.79	PK	312	243	V	-8.99	34.80	74	39.20
1604.24	29.63	Ave	312	243	V	-8.99	20.64	54	33.36
4904.00	49.11	PK	112	134	V	1.84	50.95	74	23.05
4904.00	42.34	Ave	112	134	V	1.84	44.18	54	9.82
6451.33	44.24	PK	90	160	H	5.73	49.97	74	24.03
6451.33	30.11	Ave	90	160	H	5.73	35.84	54	18.16
7356.00	39.43	PK	11	188	H	7.70	47.13	74	26.87
7356.00	24.68	Ave	11	188	H	7.70	32.38	54	21.62

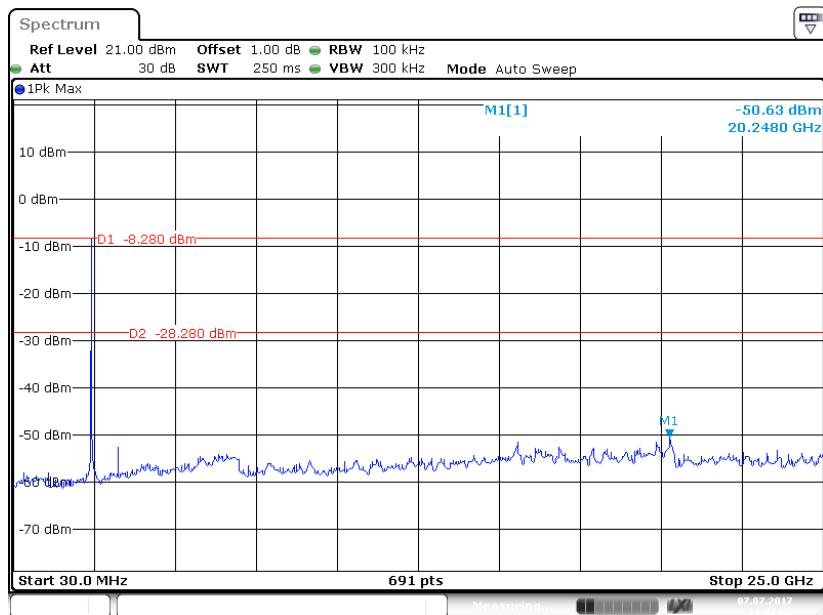
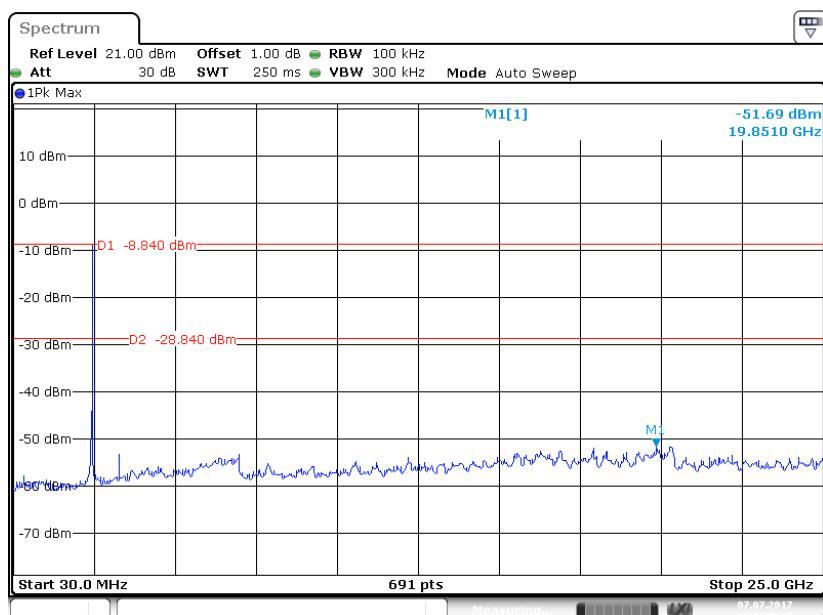
Conducted Spurious Emissions at Antenna Port**802.11b Low Channel**

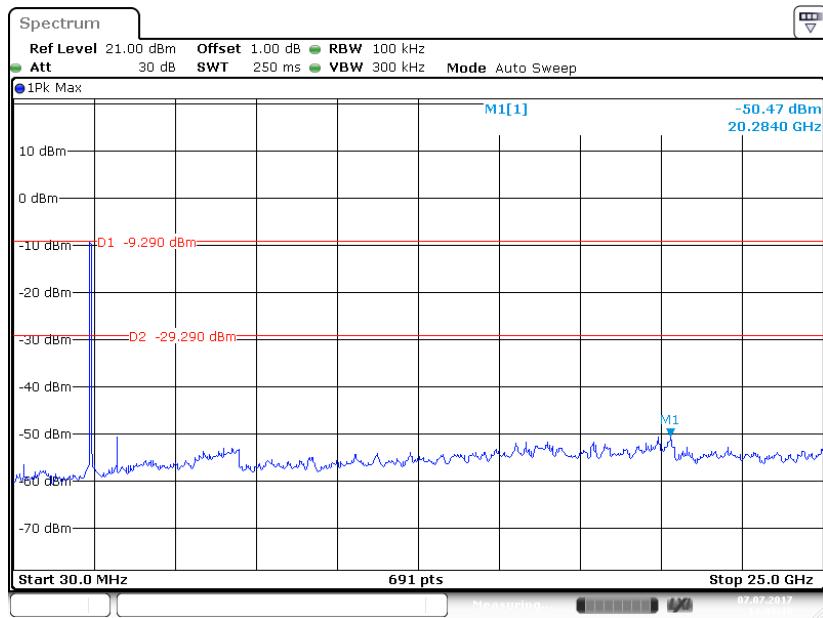
Date: 7 JUL 2017 11:07:22

802.11b Middle Channel

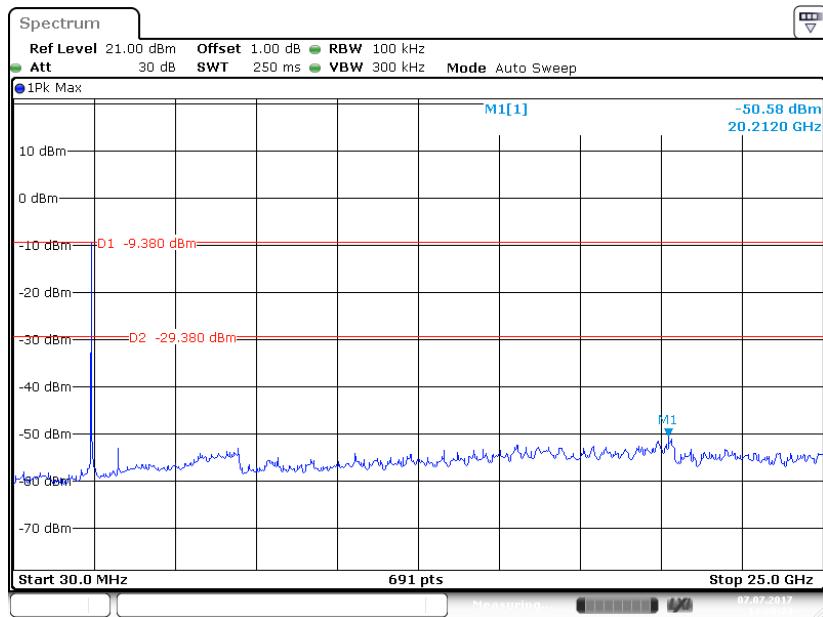
Date: 7 JUL 2017 11:24:06

802.11b High Channel**802.11g Low Channel**

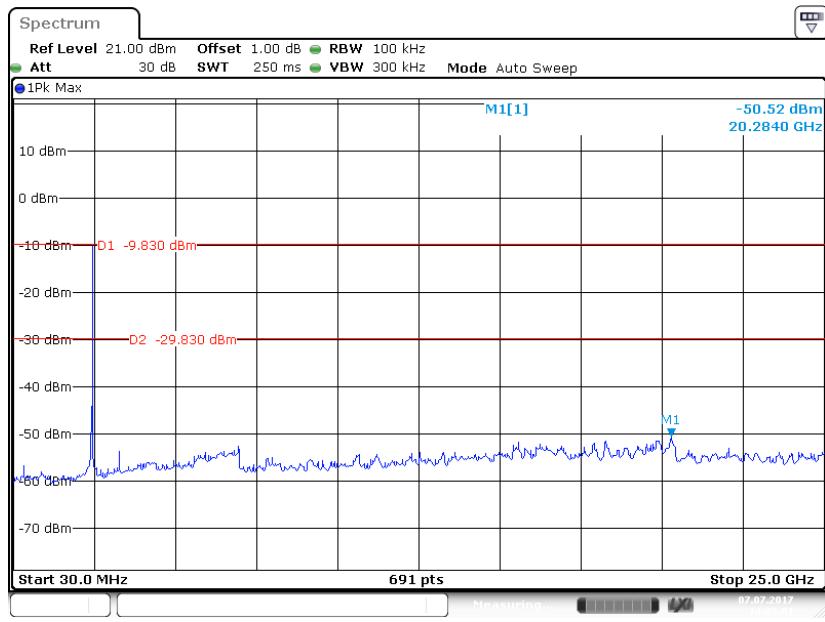
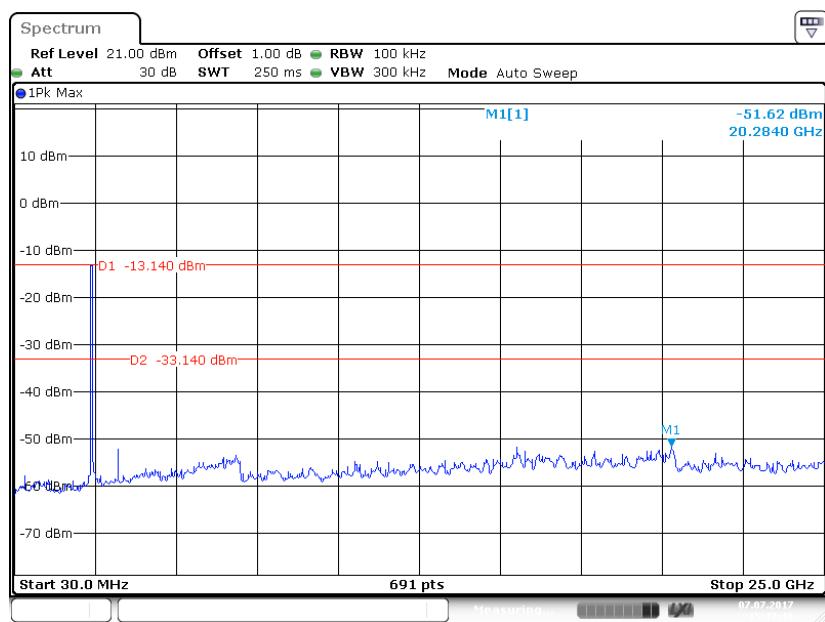
802.11g Middle Channel**802.11g High Channel**

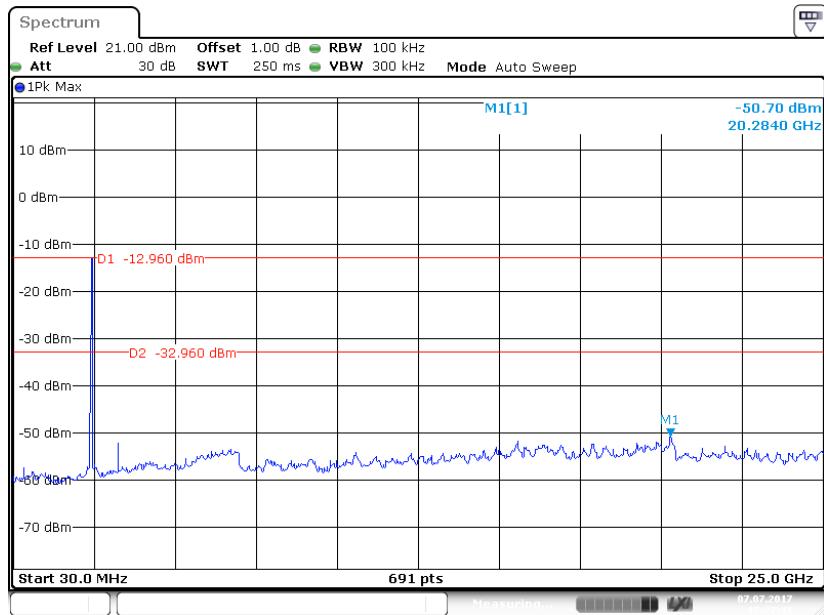
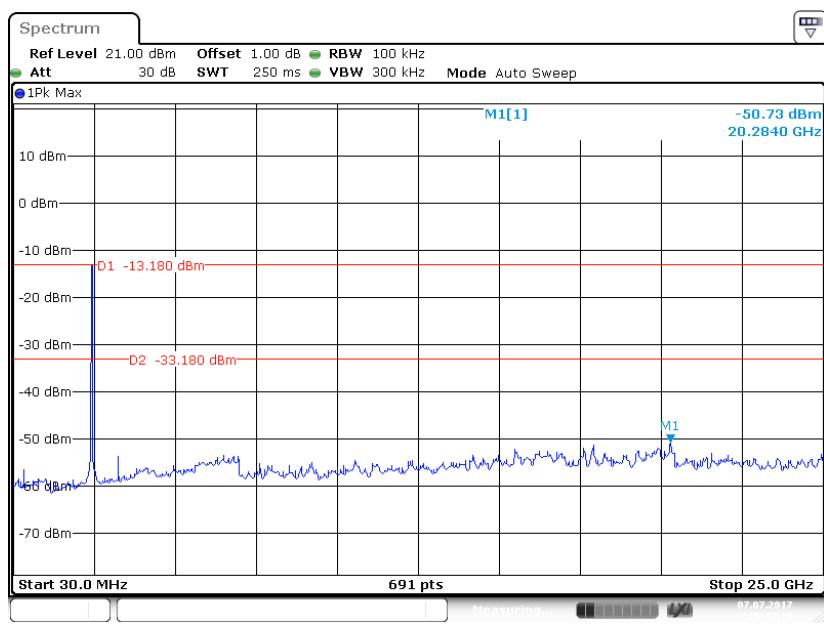
802.11n-HT20 Low Channel

Date: 7 JUL 2017 14:03:31

802.11n-HT20 Middle Channel

Date: 7 JUL 2017 14:20:24

802.11n-HT20 High Channel**802.11n-HT40 Low Channel**

802.11n-HT40 Middle Channel**802.11n-HT40 High Channel**

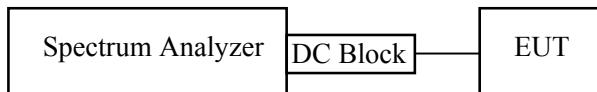
FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH

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.

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:	24.8 °C
Relative Humidity:	51 %
ATM Pressure:	101.1 kPa

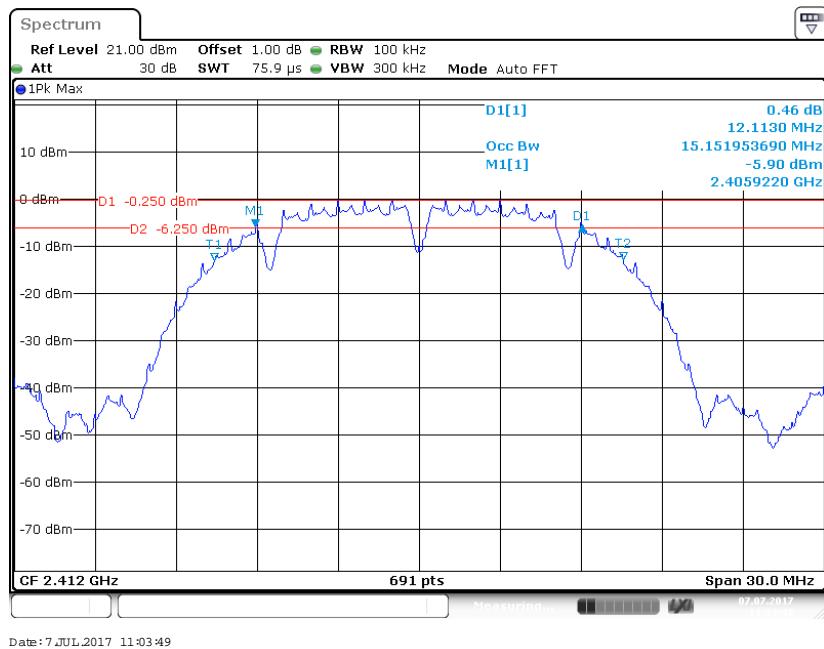
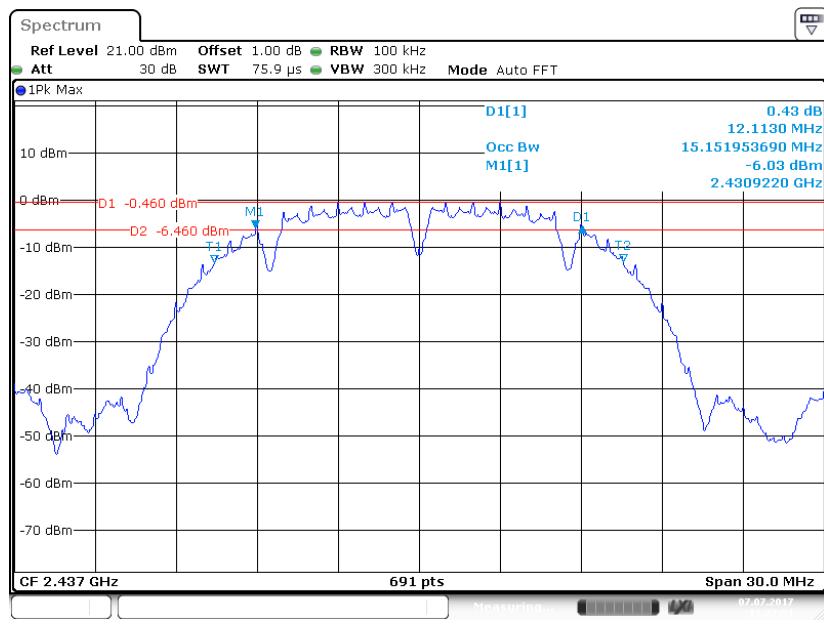
The testing was performed by Ada Yu on 2017-07-07.

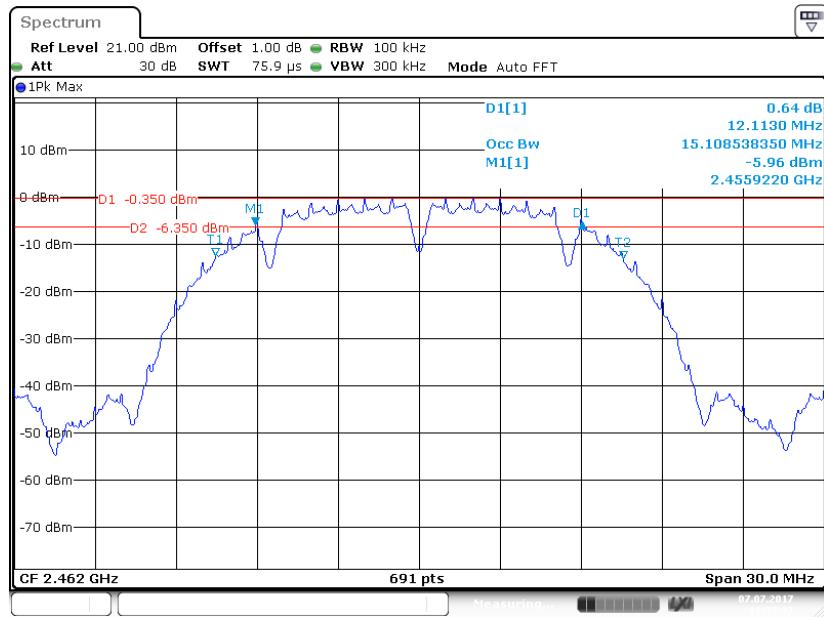
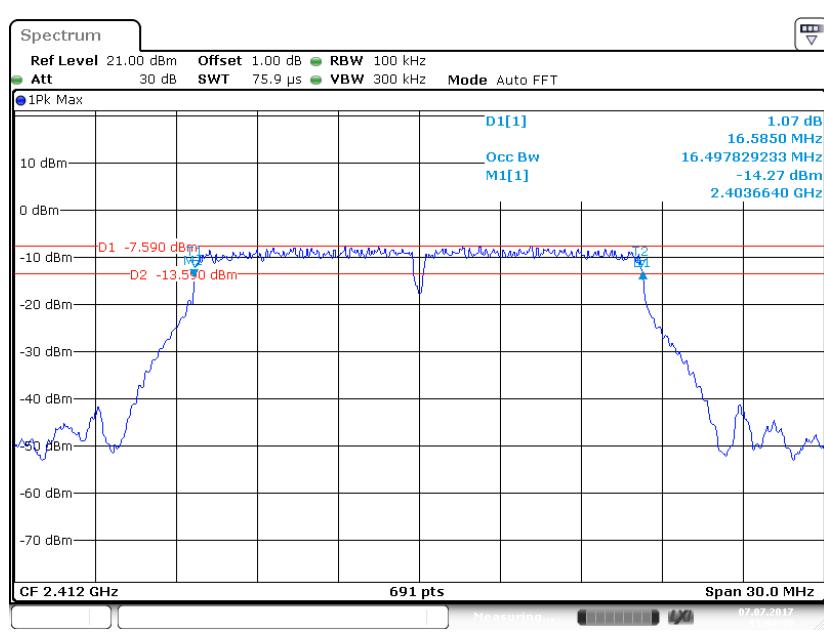
Test Result: Pass.

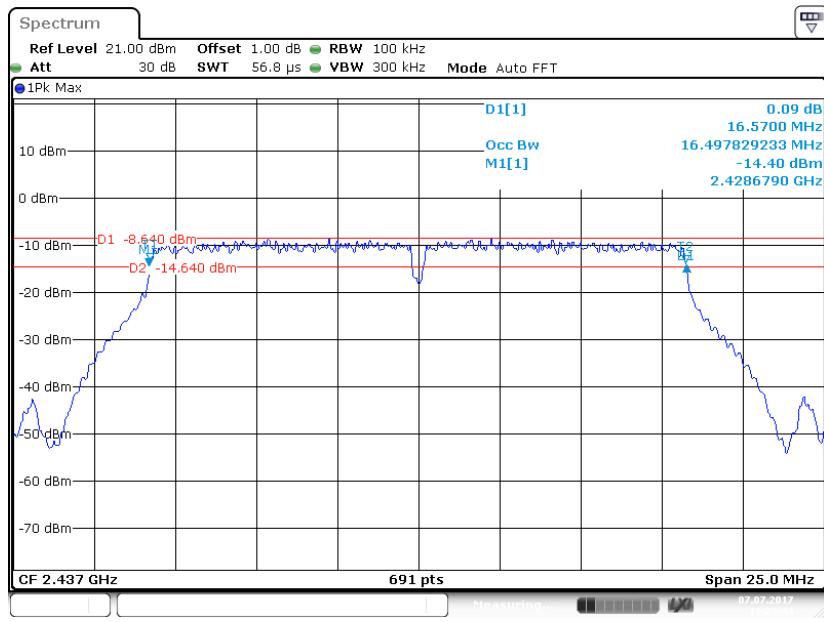
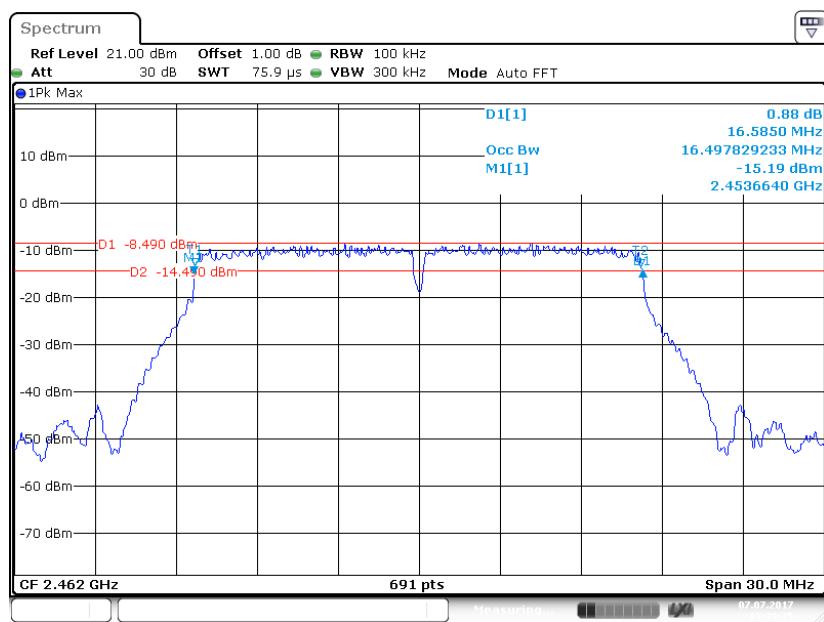
Please refer to the following tables and plots.

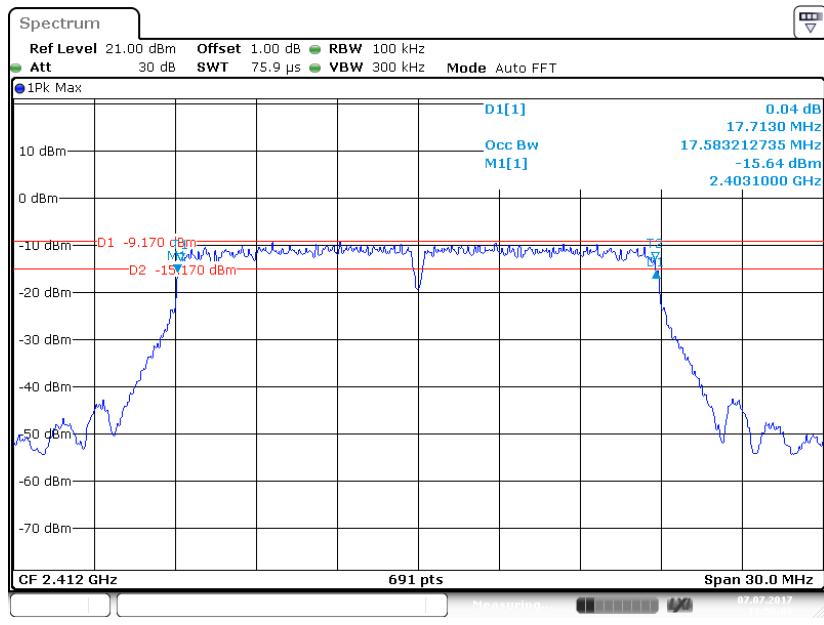
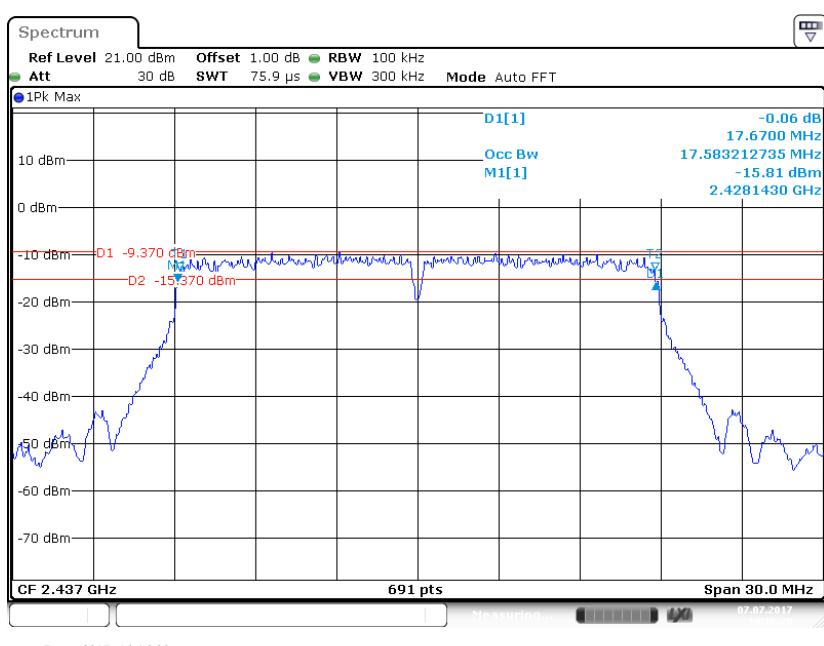
EUT operation mode: Transmitting

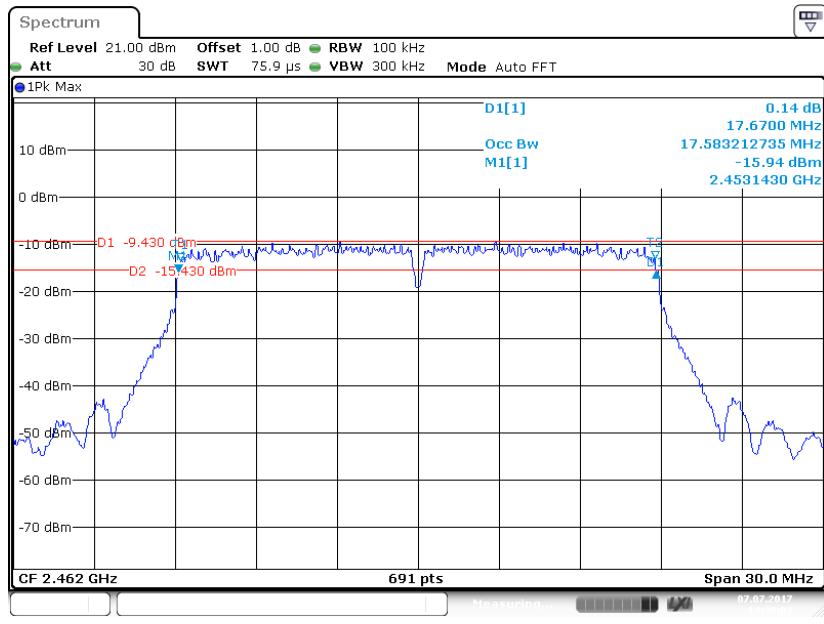
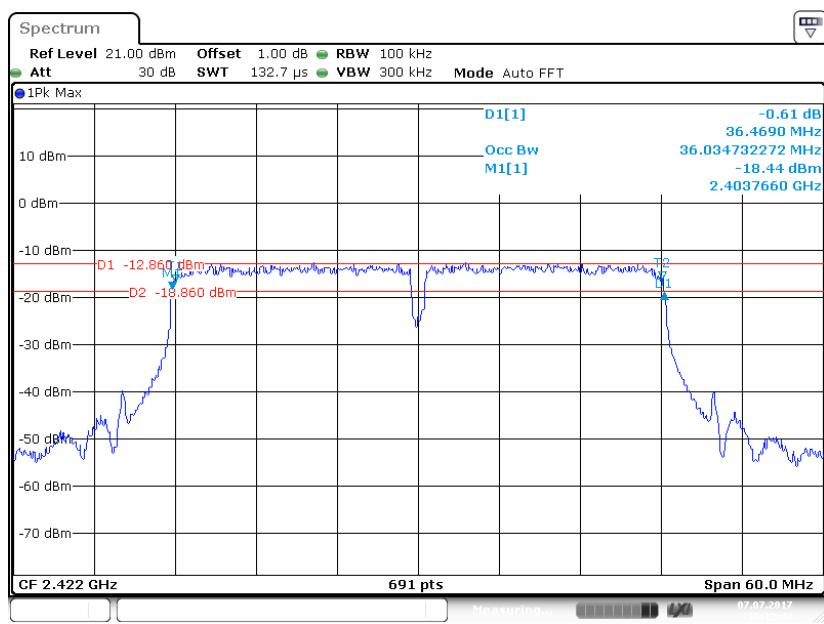
Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (MHz)
802.11b mode			
Low	2412	12.11	≥0.5
Middle	2437	12.11	≥0.5
High	2462	12.11	≥0.5
802.11g mode			
Low	2412	16.59	≥0.5
Middle	2437	16.57	≥0.5
High	2462	16.59	≥0.5
802.11n-HT20 mode			
Low	2412	17.71	≥0.5
Middle	2437	17.67	≥0.5
High	2462	17.67	≥0.5
802.11n-HT40 mode			
Low	2422	36.47	≥0.5
Middle	2437	36.47	≥0.5
High	2452	36.47	≥0.5

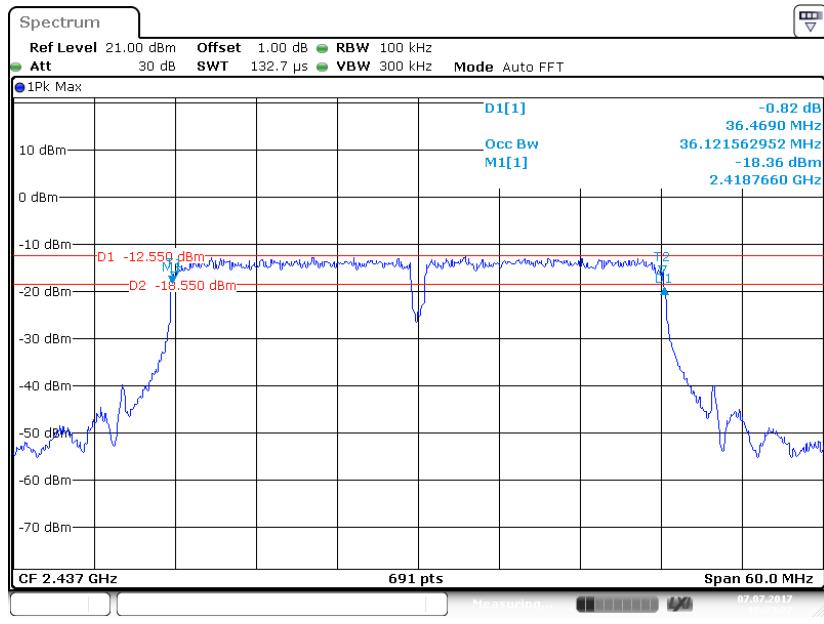
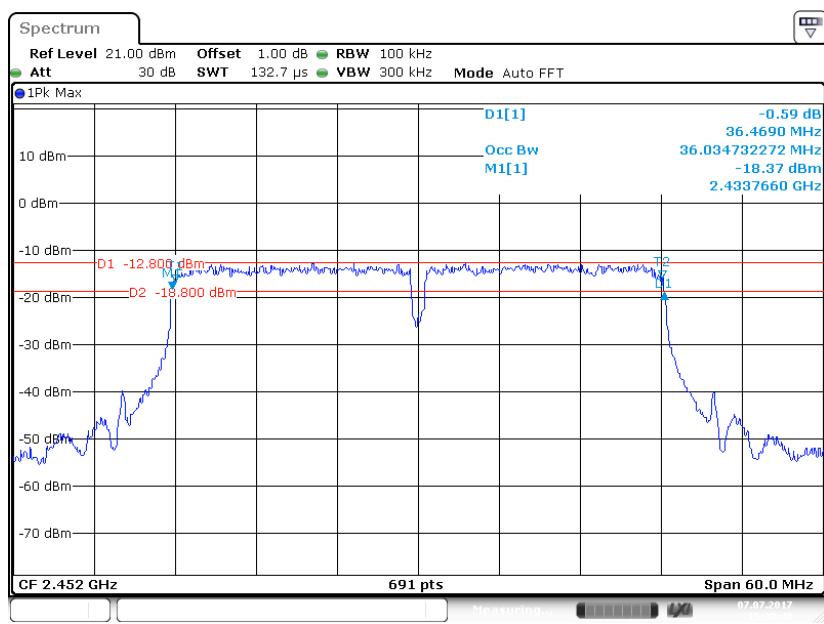
6 dB Emission Bandwidth**802.11b Low Channel****802.11b Middle Channel**

802.11b High Channel**802.11g Low Channel**

802.11g Middle Channel**802.11g High Channel**

802.11n-HT20 Low Channel**802.11n-HT20 Middle Channel**

802.11n-HT20 High Channel**802.11n-HT40 Low Channel**

802.11n-HT40 Middle Channel**802.11n-HT40 High Channel**

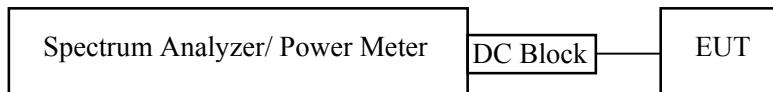
FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER

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.

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.



Note: We use signal Analyzer for peak power test and power meter for average power test.

Test Data

Environmental Conditions

Temperature:	24.5 °C
Relative Humidity:	51 %
ATM Pressure:	101.0 kPa

The testing was performed by Ada Yu on 2017-07-07.

EUT operation mode: Transmitting

Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Max Conducted Average Output Power (dBm)	Limit (dBm)	Result
802.11b					
Low	2412	14.35	10.25	30	Pass
Middle	2437	14.21	9.91	30	Pass
High	2462	14.23	10.14	30	Pass
802.11g					
Low	2412	13.50	5.85	30	Pass
Middle	2437	13.54	6.22	30	Pass
High	2462	13.41	6.23	30	Pass
802.11n-HT20					
Low	2412	13.08	4.18	30	Pass
Middle	2437	12.61	4.40	30	Pass
High	2462	12.63	4.33	30	Pass
802.11n-HT40					
Low	2422	12.81	4.47	30	Pass
Middle	2437	12.83	4.06	30	Pass
High	2452	12.80	4.57	30	Pass

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

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

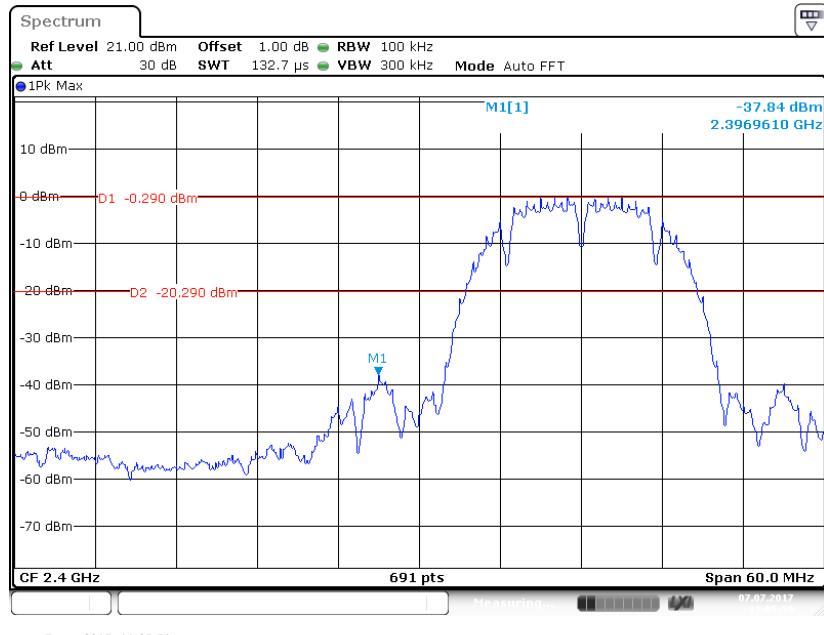
Temperature:	24.5 °C
Relative Humidity:	51 %
ATM Pressure:	101.0 kPa

The testing was performed by Ada Yu on 2017-07-07.

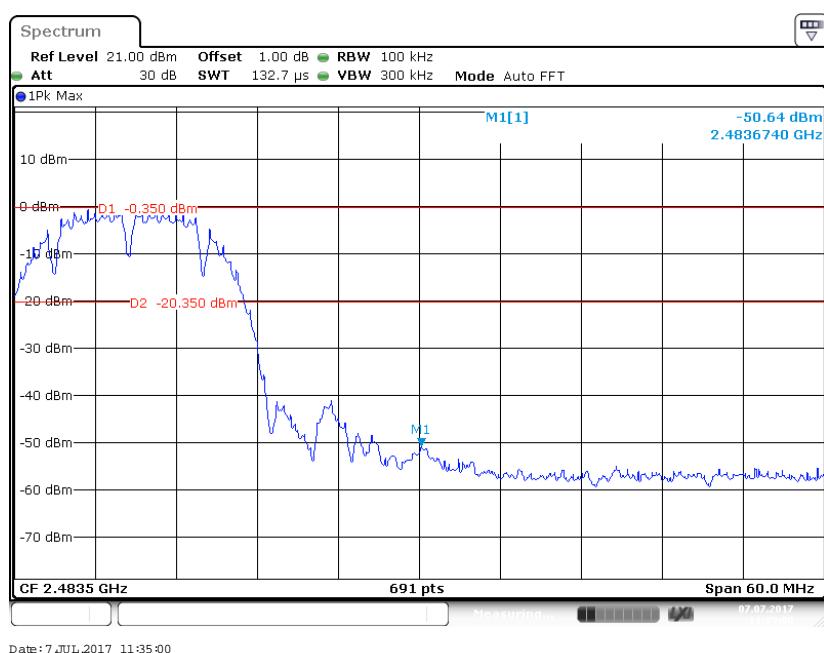
Test Result: *Compliance*

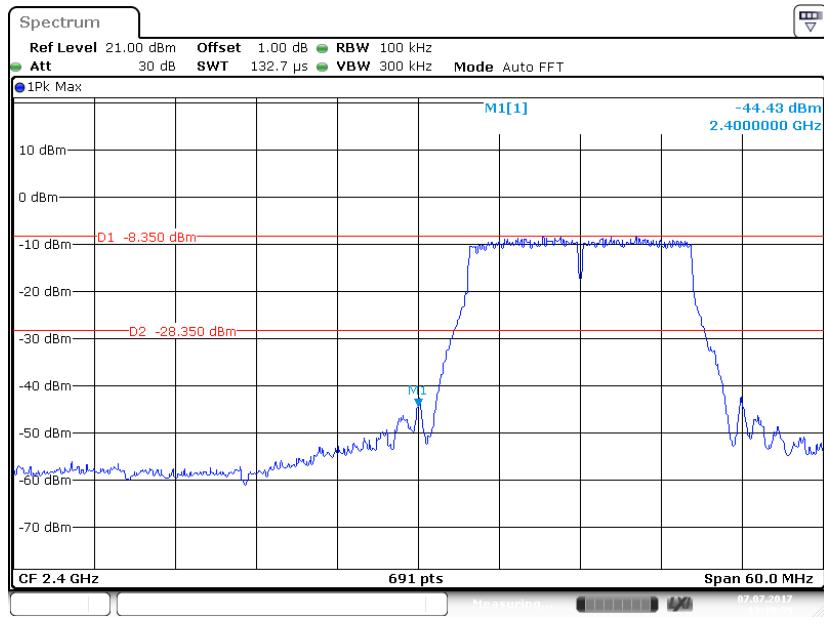
Please refer to the following table and plots.

802.11b Mode Band Edge, Left Side

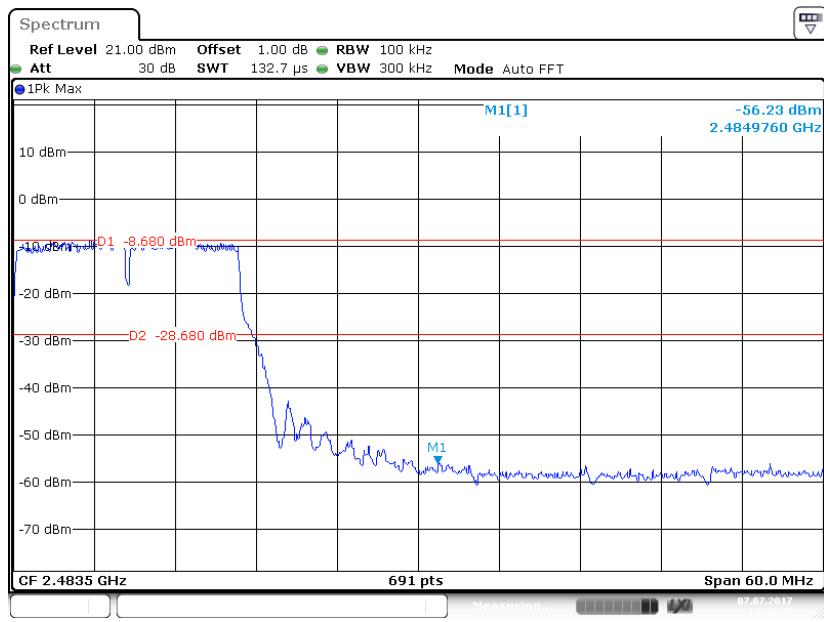


802.11b Mode Band Edge, Right Side

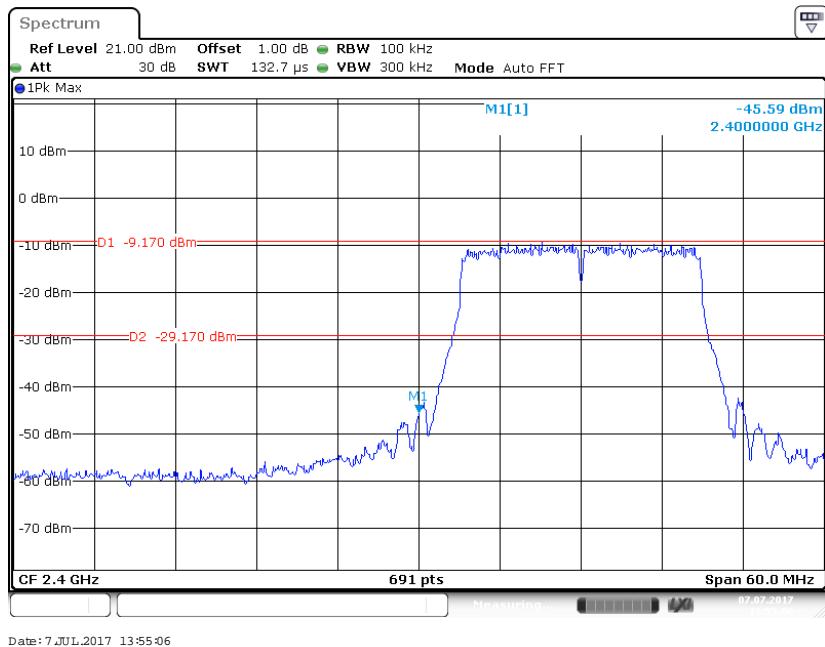
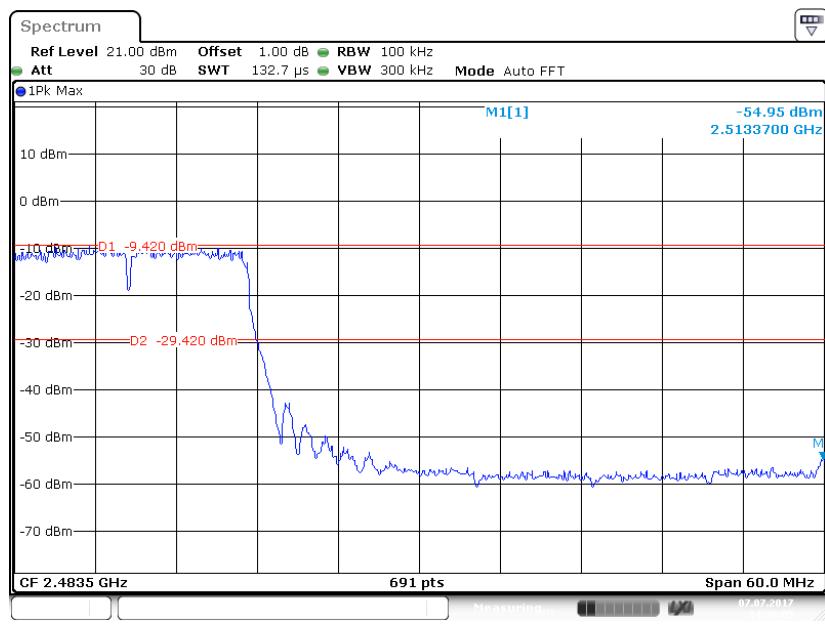


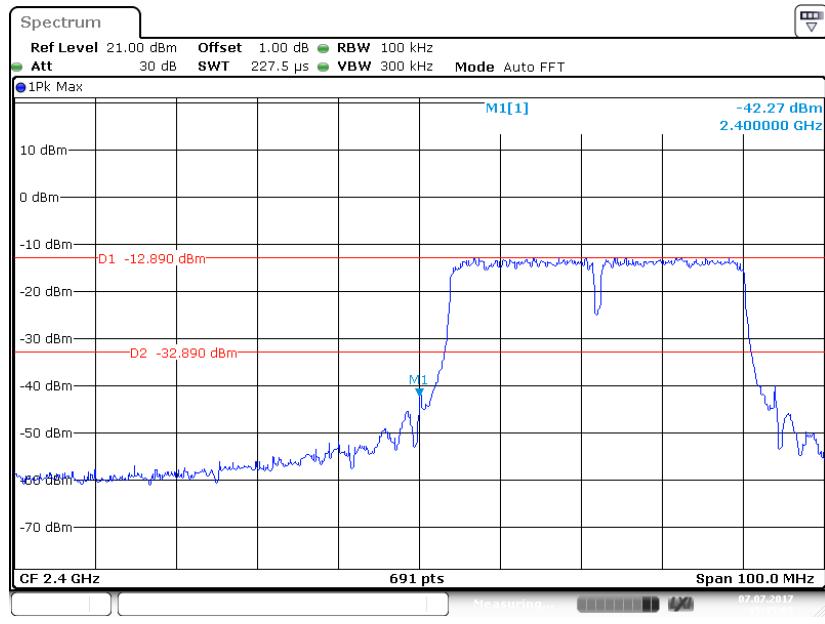
802.11g Mode Band Edge, Left Side

Date: 7 JUL 2017 13:10:59

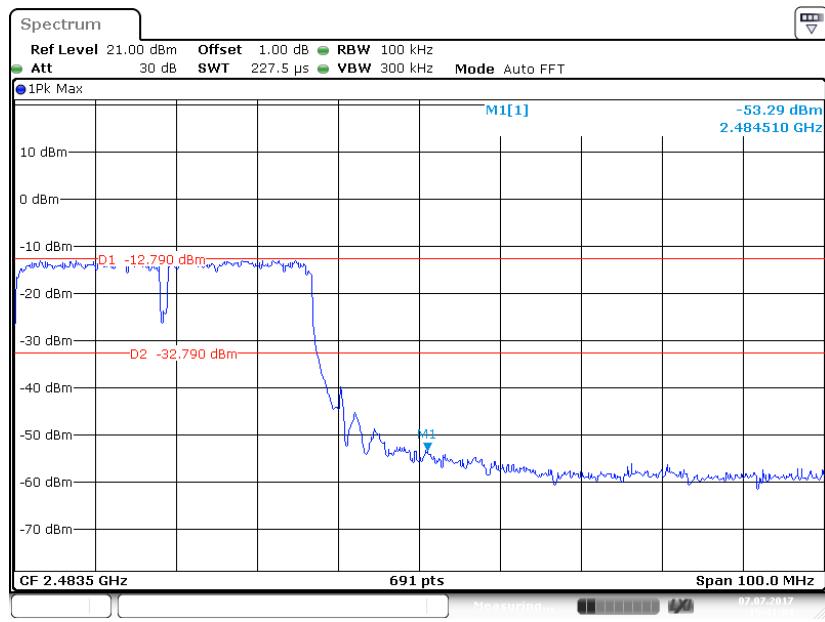
802.11g Mode Band Edge, Right Side

Date: 7 JUL 2017 13:32:17

802.11n-HT20 Mode Band Edge, Left Side**802.11n-HT20 Mode Band Edge, Right Side**

802.11n-HT40 Mode Band Edge, Left Side

Date: 7 JUL 2017 15:15:05

802.11n-HT40 Mode Band Edge, Right Side

Date: 7 JUL 2017 15:41:05

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.

Test Procedure

According to KDB558074 D01 DTS Meas Guidance v04 sub-clause 10.2

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: $3\text{kHz} \leq \text{RBW} \leq 100\text{ kHz}$.
3. Set the VBW $\geq 3 \times \text{RBW}$.
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

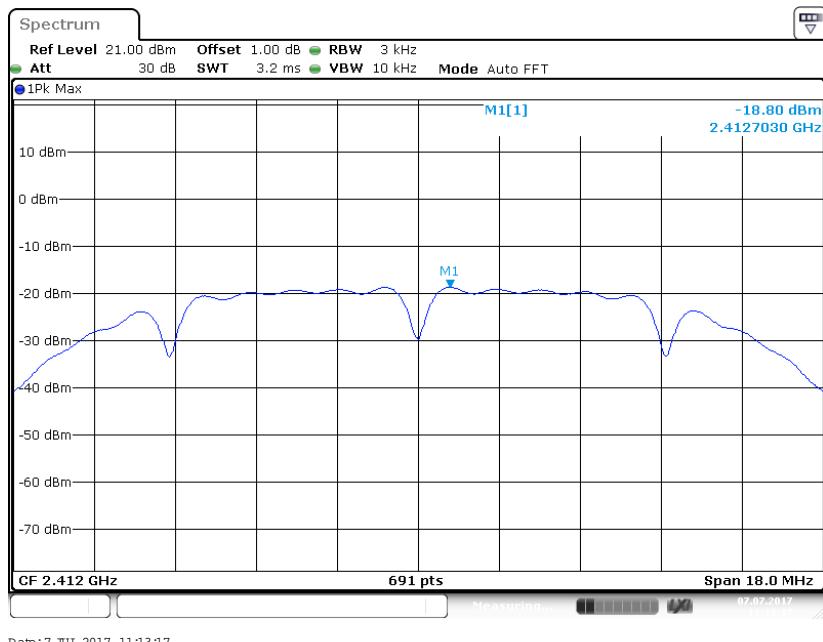
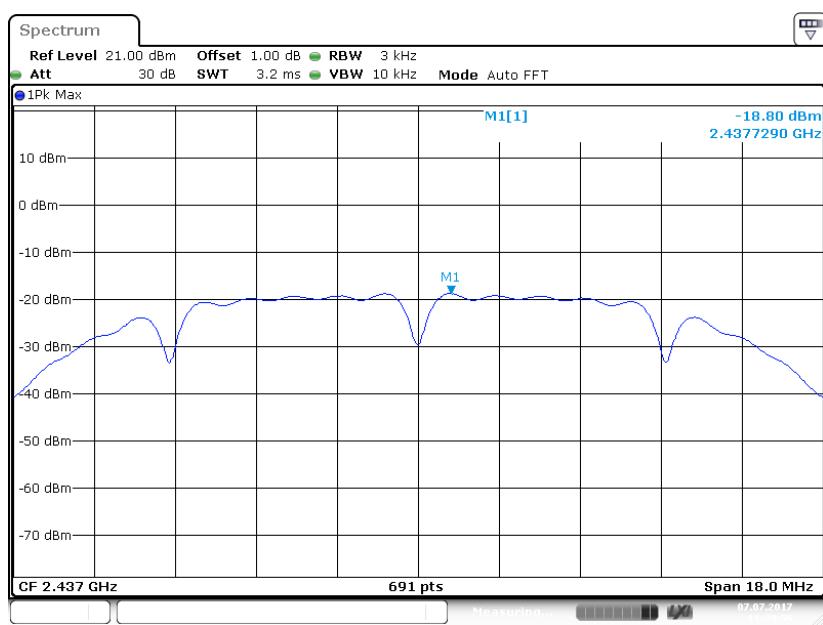
Temperature:	24.6°C
Relative Humidity:	51 %
ATM Pressure:	101.1 kPa

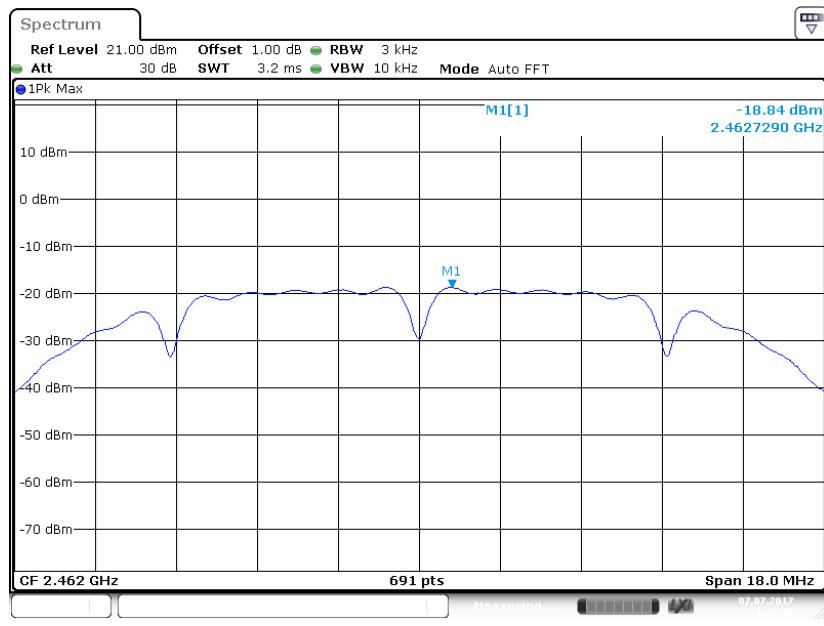
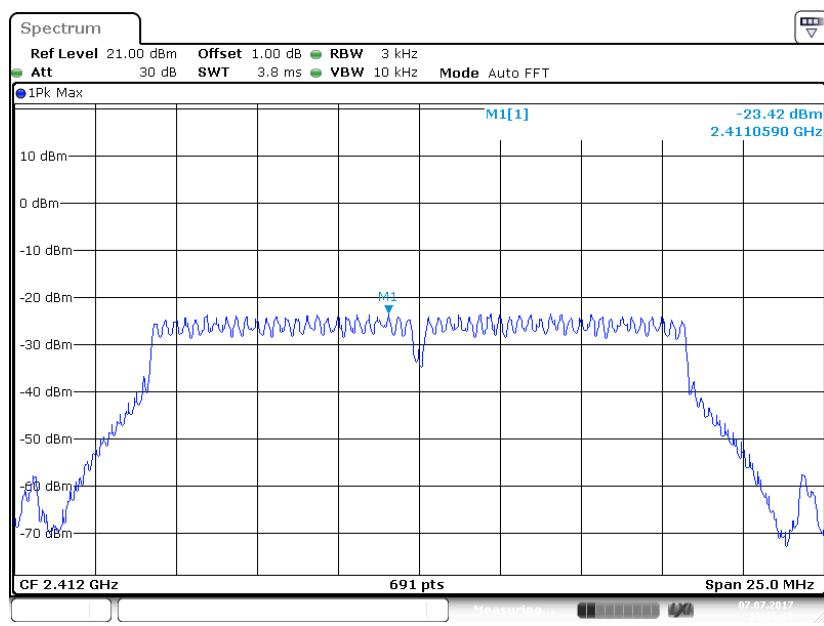
The testing was performed by Ada Yu on 2017-07-07.

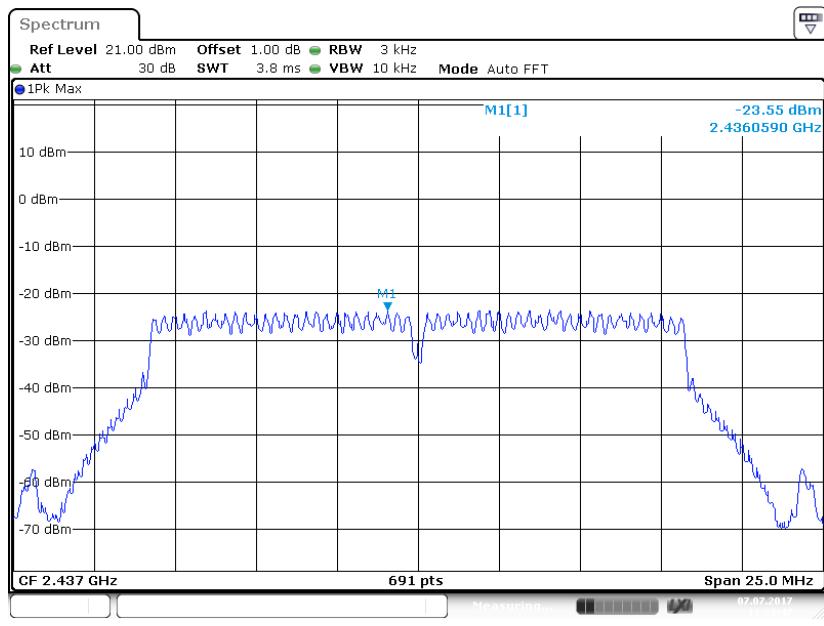
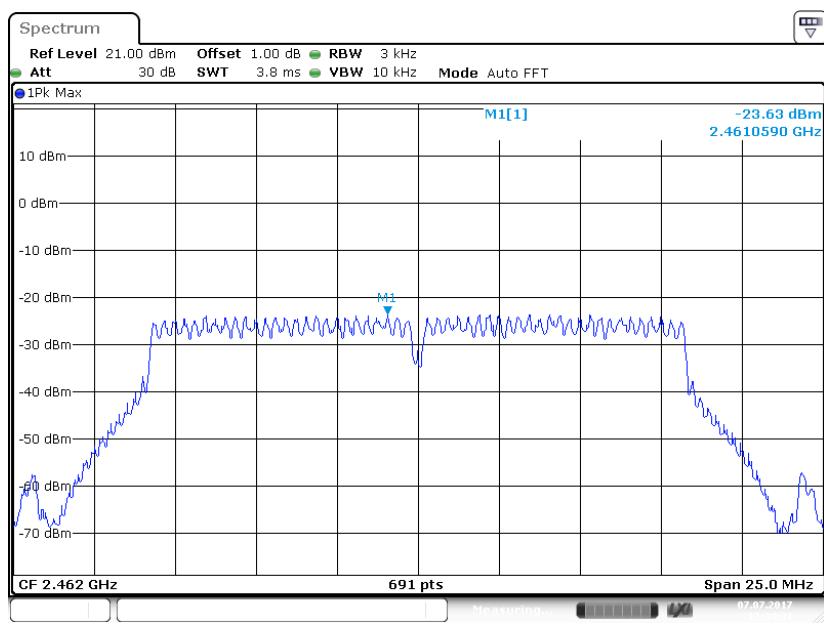
EUT operation mode: Transmitting

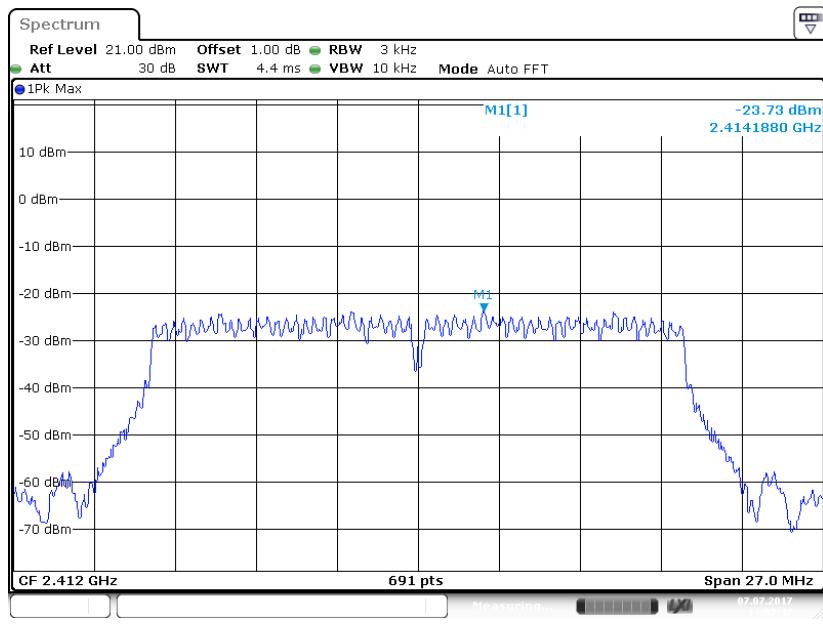
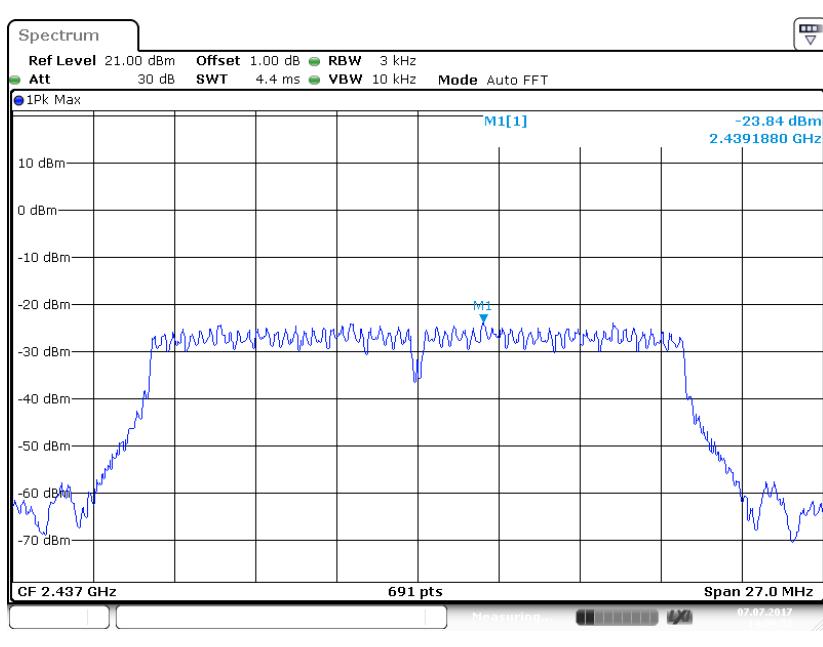
Test Result: Pass

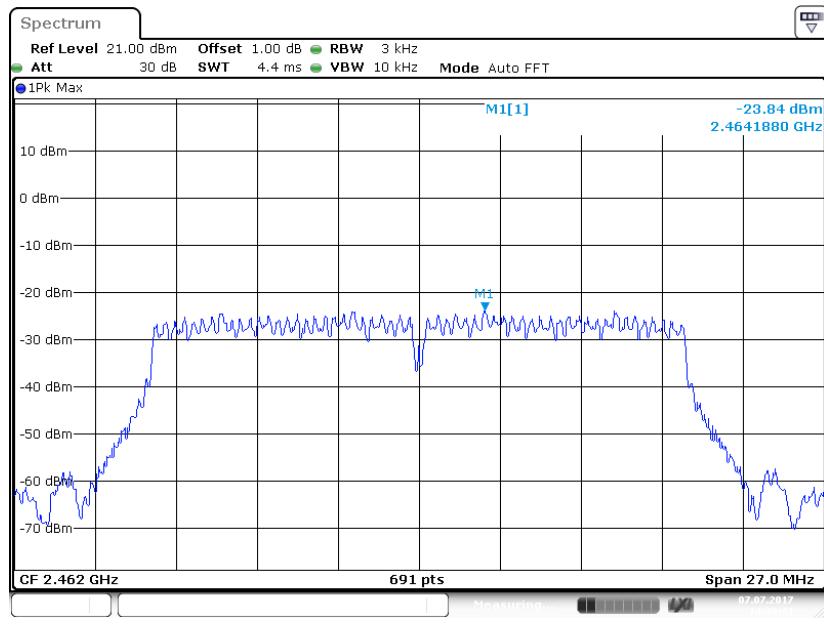
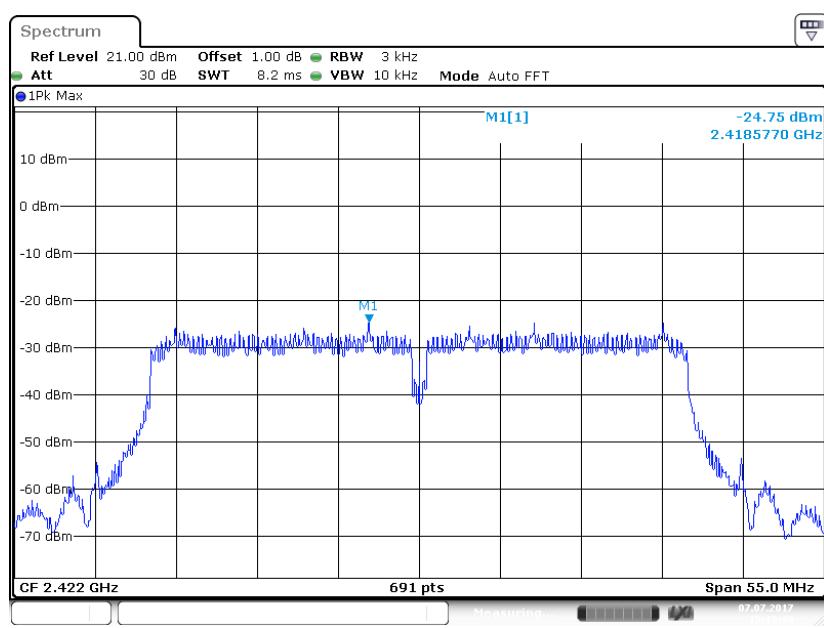
Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)
802.11b mode			
Low	2412	-18.80	≤8
Middle	2437	-18.80	≤8
High	2462	-18.84	≤8
802.11g mode			
Low	2412	-23.42	≤8
Middle	2437	-23.55	≤8
High	2462	-23.63	≤8
802.11n-HT20 mode			
Low	2412	-23.73	≤8
Middle	2437	-23.84	≤8
High	2462	-23.84	≤8
802.11n-HT40 mode			
Low	2422	-24.75	≤8
Middle	2437	-24.66	≤8
High	2452	-24.70	≤8

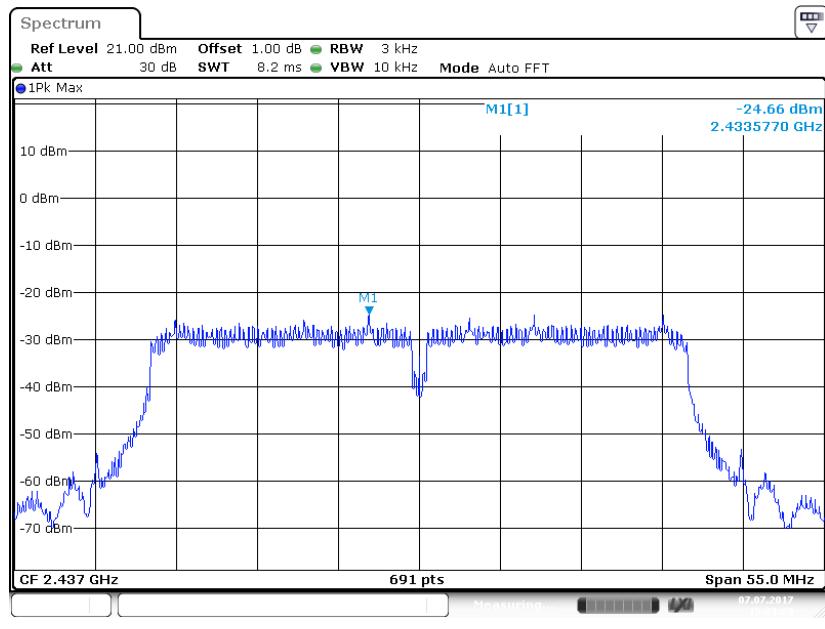
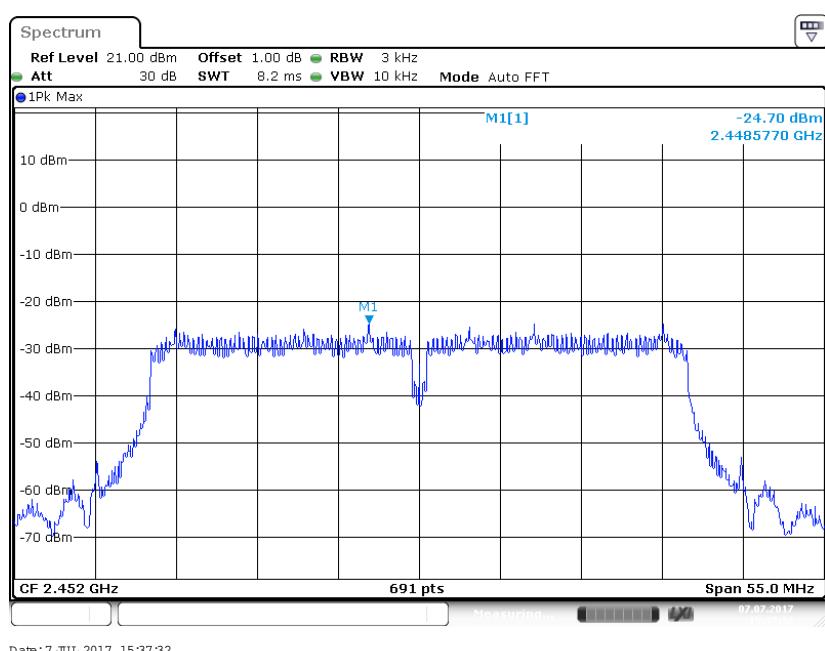
Power Spectral Density**802.11b Low Channel****802.11b Middle Channel**

802.11b High Channel**802.11g Low Channel**

802.11g Middle Channel**802.11g High Channel**

802.11n-HT20 Low Channel**802.11n-HT20 Middle Channel**

802.11n-HT20 High Channel**802.11n-HT40 Low Channel**

802.11n-HT40 Middle Channel**802.11n-HT40 High Channel********* END OF REPORT *******