

FCC PART 15.247

TEST REPORT

For

G53 Limited

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MONGKOK, KOWLOON, Hong Kong

FCC ID: 2ADLM-STG6

Report Type: Original Report	Product Type: Smart Phone
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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 *G53 Limited* 's product, model number: *STG6 (FCC ID: 2ADLM-STG6)* or the "EUT" in this report was a *Smart Phone*, which was measured approximately: 145 mm (L) × 76 mm (W) × 8 mm (H), rated with input voltage: DC 3.7 V rechargeable Li-ion battery or DC 5 V from adapter.

Adapter Information:

Model: STG6

Input: AC100~240V; 50/60Hz, 0.2A

Output: DC 5V, 700mA

**All measurement and test data in this report was gathered from production sample serial number: 1506604 (Assigned by Shenzhen BACL). The EUT supplied by the applicant was received on 2015-09-24.*

Objective

This report is prepared on behalf of *G53 Limited* in accordance with Part 2-Subpart J, Part 15-Subparts A, B 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, Part 15.247 DSS and Part 22H & 24E PCE submissions with FCC ID: 2ADLM-STG6.

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. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement uncertainty with RF radiated emission is 5.81 dB for 30MHz-1GHz and 4.88 dB for above 1GHz, 1.95dB for conducted measurement.

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

Test site at Bay Area Compliance Laboratories Corp. (Shenzhen) 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 October 31, 2013. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.10-2013.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. 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, 13 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	12	2467
6	2437	13	2472
7	2442	/	/

For 802.11b, 802.11g, 802.11n-HT20 mode, EUT was tested with Channel 1, 7 and 13.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

Wifi test in the engineer mode.

The test was performed under:

802.11b: Data rate: 1 Mbps, Power level: 50

802.11g: Data rate: 6 Mbps, Power level: 1090

802.11n-HT20: Data rate: MCS0, Power level: 1100

Support Equipment List and Details

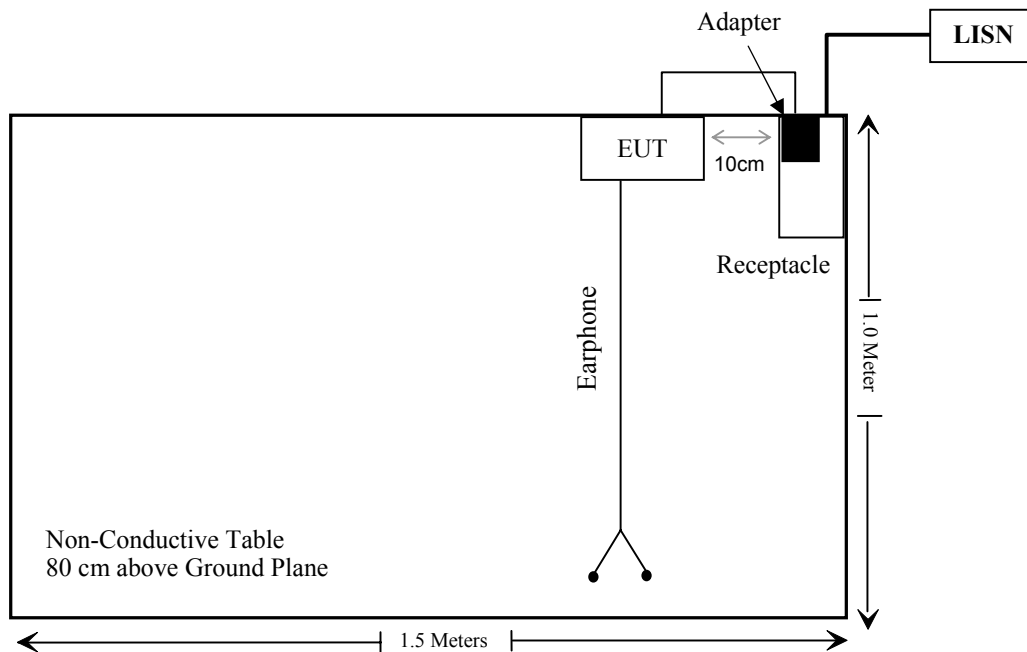
Manufacturer	Description	Model	Serial Number
PHILIPS	Earphone	SBCHP250	N/A

External I/O Cable

Cable Description	Length (m)	From Port	To
Un-shielding Detachable USB Cable	0.8	EUT	Adapter
Un-shielding Detachable Earphone Cable	1.2	EUT	Earphone

Block Diagram of Test Setup

For conducted emission



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (i), §1.1307 (b) (1)& §2.1093	RF Exposure	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

FCC§15.247 (i), §1.1307 (b) (1) & §2.1093 – RF EXPOSURE

Applicable Standard

According to FCC §2.1093 and §1.1307(b) (1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D01 General RF Exposure Guidance

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot$

$[\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

1. $f(\text{GHz})$ is the RF channel transmit frequency in GHz.

2. Power and distance are rounded to the nearest mW and mm before calculation.

3. The result is rounded to one decimal place for comparison.

4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

Measurement Result

For worst case:

Mode	Frequency (MHz)	Max Tune-up Conducted Power (dBm)	Max Tune-up Conducted Power (mW)	Calculated Distance (mm)	Calculated value	Threshold (1-g SAR)	SAR Test Exclusion
Wifi	2472	9.40	8.71	5	2.7	3.0	Yes

Result: No SAR test is required

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 an internal antenna arrangement, which was permanently attached and the antenna gain is 1 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

Measurement Uncertainty

Input quantities to be considered for conducted disturbance measurements may be receiver reading, attenuation of the connection between LISN and receiver, LISN voltage division factor, LISN VDF frequency interpolation and receiver related input quantities, etc.

Based on CISPR 16-4-2:2011, the expanded combined standard uncertainty of conducted disturbance test at Bay Area Compliance Laboratories Corp. (Shenzhen) is shown as below. And the uncertainty will not be taken into consideration for the test data recorded in the report.

Port	Expanded Measurement uncertainty
AC Mains	3.34 dB (k=2, 95% level of confidence)
CAT 3	3.72 dB (k=2, 95% level of confidence)
CAT 5	3.74 dB (k=2, 95% level of confidence)
CAT 6	4.54 dB (k=2, 95% level of confidence)

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.

The spacing between the peripherals was 10 cm.

The adapter was connected to a 120 VAC/60 Hz power source.

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.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCS30	100176	2015-06-03	2016-06-03
Rohde & Schwarz	LISN	ENV216	3560.6650.12-101613-Yb	2014-12-01	2015-12-01
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2015-05-14	2016-05-13
Ducommun technologies	Conducted Emission Cable	RG-214	CB031	2015-06-15	2016-06-15
Rohde & Schwarz	CE Test software	EMC 32	V8.53	NCR	NCR

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

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:

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

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:

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

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207, the worst margin reading as below:

7.4 dB at 0.561630 MHz in the Line conducted mode

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

$$L_m + U_{(Lm)} \leq L_{lim} + U_{cispr}$$

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.

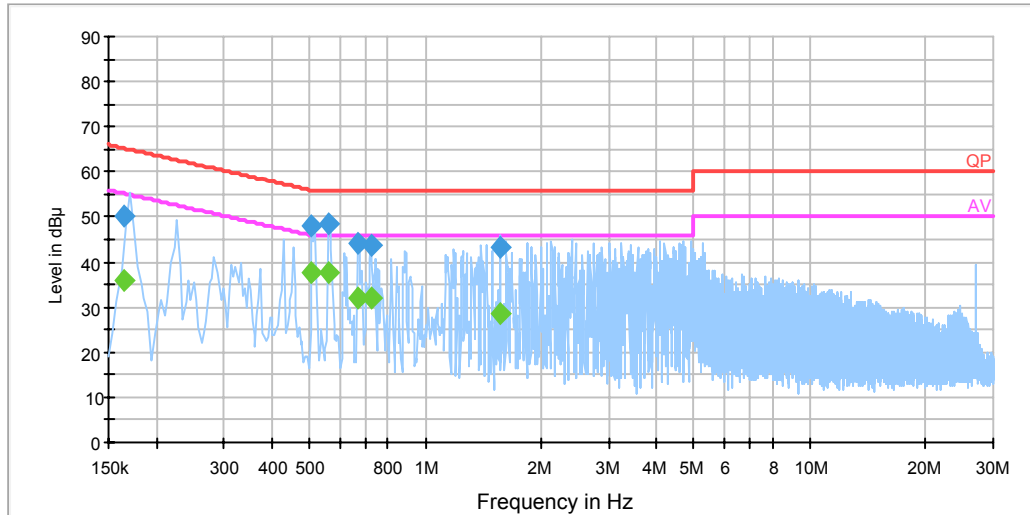
Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	51 %
ATM Pressure:	101.0 kPa

The testing was performed by Haiguo Li on 2015-10-20.

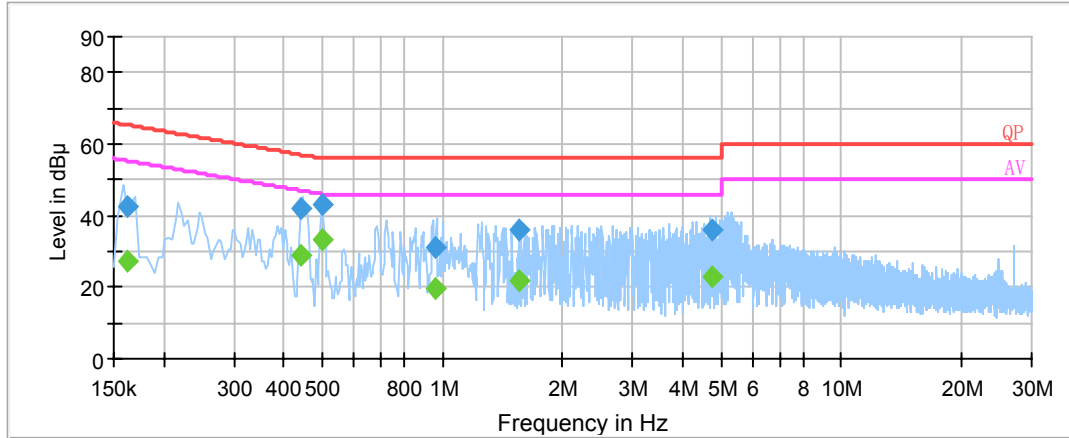
EUT operation mode: Transmitting & Charging

AC 120V/60 Hz, Line**EMI Auto Test L**

Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.165500	50.1	20.0	65.2	15.1	QP
0.165500	36.0	20.0	55.2	19.2	Ave.
0.506290	48.1	19.9	56.0	7.9	QP
0.506290	37.5	19.9	46.0	8.5	Ave.
0.561630	48.6	19.9	56.0	7.4	QP
0.561630	37.7	19.9	46.0	8.3	Ave.
0.671950	44.0	19.9	56.0	12.0	QP
0.671950	32.0	19.9	46.0	14.0	Ave.
0.727170	43.9	19.9	56.0	12.1	QP
0.727170	32.1	19.9	46.0	13.9	Ave.
1.562510	43.3	20.0	56.0	12.7	QP
1.562510	28.7	20.0	46.0	17.3	Ave.

AC 120V/60 Hz, Neutral

EMI Auto Test N



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.161500	42.6	20.0	65.4	22.8	QP
0.161500	27.4	20.0	55.4	28.0	Ave.
0.439310	41.8	19.9	57.1	15.3	QP
0.439310	28.7	19.9	47.1	18.4	Ave.
0.502530	43.1	19.9	56.0	12.9	QP
0.502530	33.2	19.9	46.0	12.8	Ave.
0.963510	30.9	20.0	56.0	25.1	QP
0.963510	19.6	20.0	46.0	26.4	Ave.
1.558570	36.2	20.0	56.0	19.8	QP
1.558570	22.1	20.0	46.0	23.9	Ave.
4.747770	36.2	20.0	56.0	19.8	QP
4.747770	22.7	20.0	46.0	23.3	Ave.

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

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

Applicable Standard

FCC §15.247 (d); §15.209; §15.205;

Measurement Uncertainty

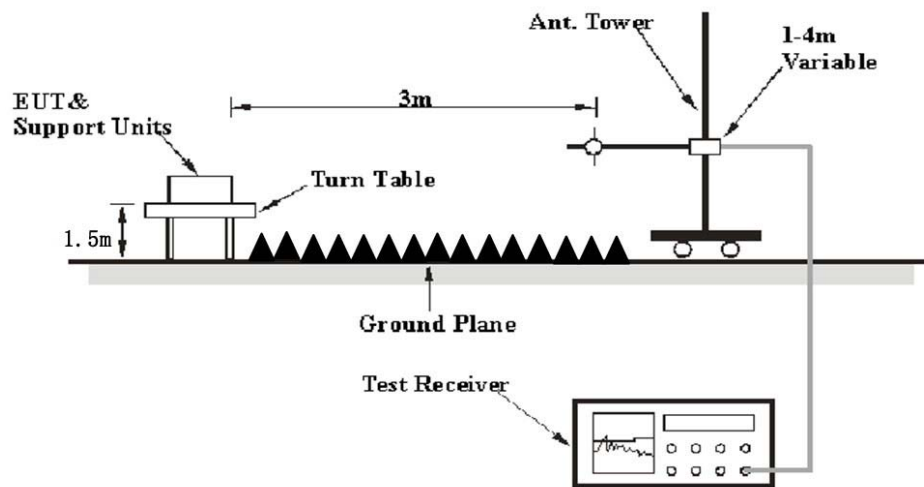
All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on CISPR 16-4-2:2011, the expanded combined standard uncertainty of radiation emissions at Bay Area Compliance Laboratories Corp. (Shenzhen) is 5.81 dB for 30MHz-1GHz and 4.88 dB for above 1GHz, 1.95dB for conducted measurement at antenna port. And the uncertainty will not be taken into consideration for the test data recorded in the report

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.

The adapter was connected to a 120 VAC/60 Hz power source.

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
	1MHz	10 Hz	/	Ave.

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.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	Amplifier	HP8447E	1937A01046	2015-05-06	2016-05-05
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2014-11-03	2015-11-03
Sunol Sciences	Bi-log Antenna	JB1	A040904-2	2014-12-07	2017-12-06
Mini	Amplifier	ZVA-183-S+	5969001149	2015-04-23	2016-04-22
A.H. System	Horn Antenna	SAS-200/571	135	2015-02-10	2016-02-10
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2014-12-11	2015-12-11
the electro-Mechanics Co.	Horn Antenna	3116	9510-2270	2013-10-14	2016-10-13
TDK	Chamber	Chamber A	2#	2015-10-15	2018-10-15
TDK	Chamber	Chamber B	1#	2015-07-22	2016-07-22
DUCOMMUN	Pre-amplifier	ALN-22093530-01	991373-01	2015-08-03	2016-08-03
Ducommun technologies	RF Cable	UFA210A-1-4724-30050U	MFR64369223410-001	2015-06-15	2016-06-15
Ducommun technologies	RF Cable	104PEA	218124002	2015-06-15	2016-06-15
Ducommun technologies	RF Cable	RG-214	1	2015-06-15	2016-06-15
Ducommun technologies	RF Cable	RG-214	2	2015-06-15	2016-06-15
Rohde & Schwarz	Auto test Software	EMC32	V9.10	NCR	NCR

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

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.

9.48 dB at 9768.00 MHz in the Horizontal polarization in Middle channel

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

$$L_m + U_{(Lm)} \leq L_{lim} + U_{cispr}$$

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:	25 °C
Relative Humidity:	51 %
ATM Pressure:	101.0 kPa

The testing was performed by Haiguo Li on 2015-10-19.

EUT operation mode: Transmitting

30 MHz-25 GHz:**802.11b Mode:**

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
Low Channel (2412 MHz)									
237.57	31.01	QP	260	1.3	H	-14.8	16.21	46	29.79
2412.00	90.35	PK	107	1.9	H	4.97	95.32	/	/
2412.00	77.47	Ave.	107	1.9	H	4.97	82.44	/	/
2412.00	84.27	PK	87	1.3	V	4.97	89.24	/	/
2412.00	64.32	Ave.	87	1.3	V	4.97	69.29	/	/
2326.58	34.14	PK	326	1.5	H	4.63	38.77	74	35.23
2326.58	22.34	Ave.	326	1.5	H	4.63	26.97	54	27.03
2340.11	32.27	PK	179	1.3	H	4.63	36.90	74	37.10
2340.11	21.47	Ave.	179	1.3	H	4.63	26.10	54	27.90
2498.35	35.76	PK	203	1.4	H	6.29	42.05	74	31.95
2498.35	23.32	Ave.	203	1.4	H	6.29	29.61	54	24.39
4824.00	34.63	PK	344	1.0	H	16.92	51.55	74	22.45
4824.00	22.27	Ave.	344	1.0	H	16.92	39.19	54	14.81
7236.00	32.36	PK	336	1.8	H	19.08	51.44	74	22.56
7236.00	21.43	Ave.	336	1.8	H	19.08	40.51	54	13.49
9648.00	30.48	PK	37	2.5	V	22.72	53.20	74	20.80
9648.00	20.73	Ave.	37	2.5	V	22.72	43.45	54	10.55

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
Middle Channel (2442 MHz)									
237.57	31.46	QP	260	1.3	H	-14.8	16.66	46	29.34
2442.00	89.35	PK	153	1.9	H	4.97	94.32	/	/
2442.00	78.56	Ave.	153	1.9	H	4.97	83.53	/	/
2442.00	85.23	PK	283	1.5	V	4.97	90.20	/	/
2442.00	65.78	Ave.	283	1.5	V	4.97	70.75	/	/
2317.41	34.58	PK	144	1.1	H	4.63	39.21	74	34.79
2317.41	22.37	Ave.	144	1.1	H	4.63	27.00	54	27.00
2335.64	32.76	PK	220	1.2	H	4.63	37.39	74	36.61
2335.64	21.35	Ave.	220	1.2	H	4.63	25.98	54	28.02
2495.73	35.78	PK	355	2.4	H	6.29	42.07	74	31.93
2495.73	23.53	Ave.	355	2.4	H	6.29	29.82	54	24.18
4884.00	34.46	PK	109	1.4	H	16.91	51.37	74	22.63
4884.00	22.32	Ave.	109	1.4	H	16.91	39.23	54	14.77
7326.00	32.47	PK	108	2.1	H	19.40	51.87	74	22.13
7326.00	21.75	Ave.	108	2.1	H	19.40	41.15	54	12.85
9768.00	30.56	PK	197	1.6	H	23.79	54.35	74	19.65
9768.00	20.13	Ave.	197	1.6	H	23.79	43.92	54	10.08
High Channel (2472 MHz)									
237.57	31.42	QP	260	1.3	H	-14.8	16.62	46	29.38
2472.00	89.33	PK	89	2.2	H	6.29	95.62	/	/
2472.00	78.56	Ave.	89	2.2	H	6.29	84.85	/	/
2472.00	85.47	PK	271	1.9	V	6.29	91.76	/	/
2472.00	65.36	Ave.	271	1.9	V	6.29	71.65	/	/
2317.23	34.39	PK	314	1.0	H	4.63	39.02	74	34.98
2317.23	22.27	Ave.	314	1.0	H	4.63	26.90	54	27.10
2335.56	32.56	PK	74	1.9	H	4.63	37.19	74	36.81
2335.56	21.53	Ave.	74	1.9	H	4.63	26.16	54	27.84
2491.32	35.43	PK	249	2.3	H	6.29	41.72	74	32.28
2491.32	23.63	Ave.	249	2.3	H	6.29	29.92	54	24.08
4944.00	34.69	PK	103	2.3	H	16.91	51.60	74	22.40
4944.00	22.32	Ave.	103	2.3	H	16.91	39.23	54	14.77
7416.00	32.24	PK	288	2.3	H	18.34	50.58	74	23.42
7416.00	21.21	Ave.	288	2.3	H	18.34	39.55	54	14.45
9888.00	30.53	PK	341	1.7	V	23.79	54.32	74	19.68
9888.00	20.23	Ave.	341	1.7	V	23.79	44.02	54	9.98

802.11g Mode:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
Low Channel (2412 MHz)									
237.57	31.47	QP	260	1.3	H	-14.8	16.67	46	29.33
2412.00	90.78	PK	308	1.7	H	4.97	95.75	/	/
2412.00	78.52	Ave.	308	1.7	H	4.97	83.49	/	/
2412.00	84.29	PK	82	2.0	V	4.97	89.26	/	/
2412.00	64.59	Ave.	82	2.0	V	4.97	69.56	/	/
2317.34	34.63	PK	83	1.8	H	4.63	39.26	74	34.74
2317.34	22.75	Ave.	83	1.8	H	4.63	27.38	54	26.62
2338.52	32.47	PK	332	2.0	H	4.63	37.10	74	36.90
2338.52	21.32	Ave.	332	2.0	H	4.63	25.95	54	28.05
2492.47	35.43	PK	103	1.9	H	6.29	41.72	74	32.28
2492.47	23.23	Ave.	103	1.9	H	6.29	29.52	54	24.48
4824.00	34.73	PK	324	1.8	H	16.92	51.65	74	22.35
4824.00	22.25	Ave.	324	1.8	H	16.92	39.17	54	14.83
7236.00	32.96	PK	190	1.7	H	19.08	52.04	74	21.96
7236.00	21.55	Ave.	190	1.7	H	19.08	40.63	54	13.37
9648.00	30.72	PK	178	1.2	V	22.72	53.44	74	20.56
9648.00	20.43	Ave.	178	1.2	V	22.72	43.15	54	10.85
Middle Channel (2442 MHz)									
237.57	31.30	QP	260	1.3	H	-14.8	16.50	46	29.50
2442.00	89.76	PK	191	2.0	H	4.97	94.73	/	/
2442.00	78.53	Ave.	191	2.0	H	4.97	83.50	/	/
2442.00	85.58	PK	259	2.2	V	4.97	90.55	/	/
2442.00	65.73	Ave.	259	2.2	V	4.97	70.70	/	/
2317.65	34.41	PK	12	1.8	H	4.63	39.04	74	34.96
2317.65	22.24	Ave.	12	1.8	H	4.63	26.87	54	27.13
2335.27	32.56	PK	167	1.8	H	4.63	37.19	74	36.81
2335.27	21.24	Ave.	167	1.8	H	4.63	25.87	54	28.13
2495.47	35.73	PK	322	1.5	H	6.29	42.02	74	31.98
2495.47	23.74	Ave.	322	1.5	H	6.29	30.03	54	23.97
4884.00	34.31	PK	310	1.5	H	16.91	51.22	74	22.78
4884.00	22.13	Ave.	310	1.5	H	16.91	39.04	54	14.96
7326.00	32.58	PK	84	2.1	H	19.40	51.98	74	22.02
7326.00	21.73	Ave.	84	2.1	H	19.40	41.13	54	12.87
9768.00	30.32	PK	115	2.1	H	23.79	54.11	74	19.89
9768.00	20.73	Ave.	115	2.1	H	23.79	44.52	54	9.48

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
High Channel (2472 MHz)									
237.57	31.21	QP	260	1.3	H	-14.8	16.41	46	29.59
2472.00	89.77	PK	126	1.4	H	6.29	96.06	/	/
2472.00	78.06	Ave.	126	1.4	H	6.29	84.35	/	/
2472.00	85.08	PK	222	2.1	V	6.29	91.37	/	/
2472.00	65.46	Ave.	222	2.1	V	6.29	71.75	/	/
2317.98	34.16	PK	32	1.2	H	4.63	38.79	74	35.21
2317.98	22.13	Ave.	32	1.2	H	4.63	26.76	54	27.24
2335.13	32.73	PK	35	1.7	H	4.63	37.36	74	36.64
2335.13	21.23	Ave.	35	1.7	H	4.63	25.86	54	28.14
2491.59	35.23	PK	246	2.1	H	6.29	41.52	74	32.48
2491.59	23.37	Ave.	246	2.1	H	6.29	29.66	54	24.34
4944.00	34.26	PK	97	2.1	H	16.91	51.17	74	22.83
4944.00	22.47	Ave.	97	2.1	H	16.91	39.38	54	14.62
7416.00	32.41	PK	275	2.3	H	18.34	50.75	74	23.25
7416.00	21.32	Ave.	275	2.3	H	18.34	39.66	54	14.34
9888.00	30.36	PK	147	2.4	V	23.79	54.15	74	19.85
9888.00	20.14	Ave.	147	2.4	V	23.79	43.93	54	10.07

802.11n-HT20 Mode:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
Low Channel (2412 MHz)									
237.57	31.71	QP	260	1.3	H	-14.8	16.91	46	29.09
2412.00	90.14	PK	357	2.0	H	4.97	95.11	/	/
2412.00	78.47	Ave.	357	2.0	H	4.97	83.44	/	/
2412.00	84.53	PK	112	2.5	V	4.97	89.50	/	/
2412.00	64.45	Ave.	112	2.5	V	4.97	69.42	/	/
2317.58	34.23	PK	83	1.1	H	4.63	38.86	74	35.14
2317.58	22.32	Ave.	83	1.1	H	4.63	26.95	54	27.05
2331.23	32.43	PK	58	1.5	H	4.63	37.06	74	36.94
2331.23	21.26	Ave.	58	1.5	H	4.63	25.89	54	28.11
2495.27	35.57	PK	13	2.2	H	6.29	41.86	74	32.14
2495.27	23.63	Ave.	13	2.2	H	6.29	29.92	54	24.08
4824.00	34.53	PK	228	1.4	H	16.92	51.45	74	22.55
4824.00	22.41	Ave.	228	1.4	H	16.92	39.33	54	14.67
7236.00	32.73	PK	12	2.5	H	19.08	51.81	74	22.19
7236.00	21.32	Ave.	12	2.5	H	19.08	40.40	54	13.60
9648.00	30.65	PK	144	2.1	V	22.72	53.37	74	20.63
9648.00	20.32	Ave.	144	2.1	V	22.72	43.04	54	10.96
Middle Channel (2442 MHz)									
237.57	31.54	QP	260	1.3	H	-14.8	16.74	46	29.26
2442.00	89.32	PK	112	2.5	H	4.97	94.29	/	/
2442.00	78.13	Ave.	112	2.5	H	4.97	83.10	/	/
2442.00	85.42	PK	98	1.9	V	4.97	90.39	/	/
2442.00	65.51	Ave.	98	1.9	V	4.97	70.48	/	/
2317.65	34.32	PK	91	1.7	H	4.63	38.95	74	35.05
2317.65	22.59	Ave.	91	1.7	H	4.63	27.22	54	26.78
2335.27	32.52	PK	39	1.9	H	4.63	37.15	74	36.85
2335.27	21.21	Ave.	39	1.9	H	4.63	25.84	54	28.16
2495.47	35.53	PK	52	1.4	H	6.29	41.82	74	32.18
2495.47	23.42	Ave.	52	1.4	H	6.29	29.71	54	24.29
4884.00	34.27	PK	89	1.8	H	16.91	51.18	74	22.82
4884.00	22.36	Ave.	89	1.8	H	16.91	39.27	54	14.73
7326.00	32.52	PK	140	1.5	H	19.40	51.92	74	22.08
7326.00	21.42	Ave.	140	1.5	H	19.40	40.82	54	13.18
9768.00	30.36	PK	315	1.6	H	23.79	54.15	74	19.85
9768.00	20.17	Ave.	315	1.6	H	23.79	43.96	54	10.04

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
High Channel (2472 MHz)									
237.57	31.18	QP	260	1.3	H	-14.8	16.38	46	29.62
2472.00	89.29	PK	196	1.3	H	6.29	95.58	/	/
2472.00	78.23	Ave.	196	1.3	H	6.29	84.52	/	/
2472.00	85.46	PK	214	1.4	V	6.29	91.75	/	/
2472.00	65.31	Ave.	214	1.4	V	6.29	71.60	/	/
2315.24	34.24	PK	231	1.5	H	4.63	38.87	74	35.13
2315.24	22.19	Ave.	231	1.5	H	4.63	26.82	54	27.18
2335.75	32.54	PK	61	1.9	H	4.63	37.17	74	36.83
2335.75	21.43	Ave.	61	1.9	H	4.63	26.06	54	27.94
2491.34	35.28	PK	93	1.8	H	6.29	41.57	74	32.43
2491.34	23.32	Ave.	93	1.8	H	6.29	29.61	54	24.39
4944.00	34.24	PK	278	1.9	H	16.91	51.15	74	22.85
4944.00	22.42	Ave.	278	1.9	H	16.91	39.33	54	14.67
7416.00	32.46	PK	359	2.4	H	18.34	50.80	74	23.20
7416.00	21.35	Ave.	359	2.4	H	18.34	39.69	54	14.31
9888.00	30.32	PK	27	1.1	H	23.79	54.11	74	19.89
9888.00	20.17	Ave.	27	1.1	H	23.79	43.96	54	10.04

Note:

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

Corrected Amplitude = Corrected Factor + Reading

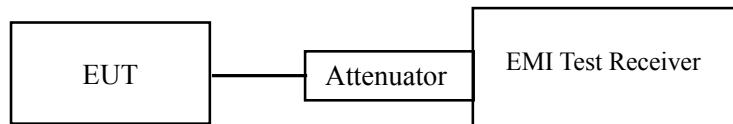
Margin = Limit - Corrected. Amplitude

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 Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESR	1316.3003K03-101746-zn	2015-06-13	2016-06-13
Ducommun technologies	RF Cable	RG-214	3	2015-06-15	2016-06-15
WEINSCHEL	10dB Attenuator	5324	AU0709	2015-06-18	2016-06-18

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

Test Data**Environmental Conditions**

Temperature:	25 °C
Relative Humidity:	51 %
ATM Pressure:	101.0 kPa

The testing was performed by Haiguo Li on 2015-10-13.

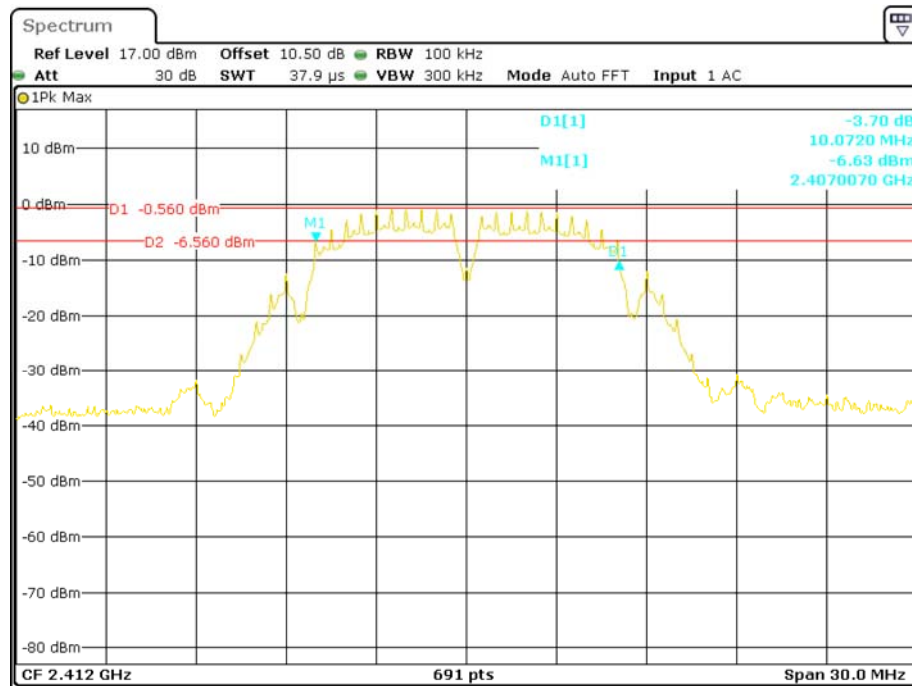
Test Result: Pass.

Please refer to the following table and plots.

EUT operation mode: Transmitting

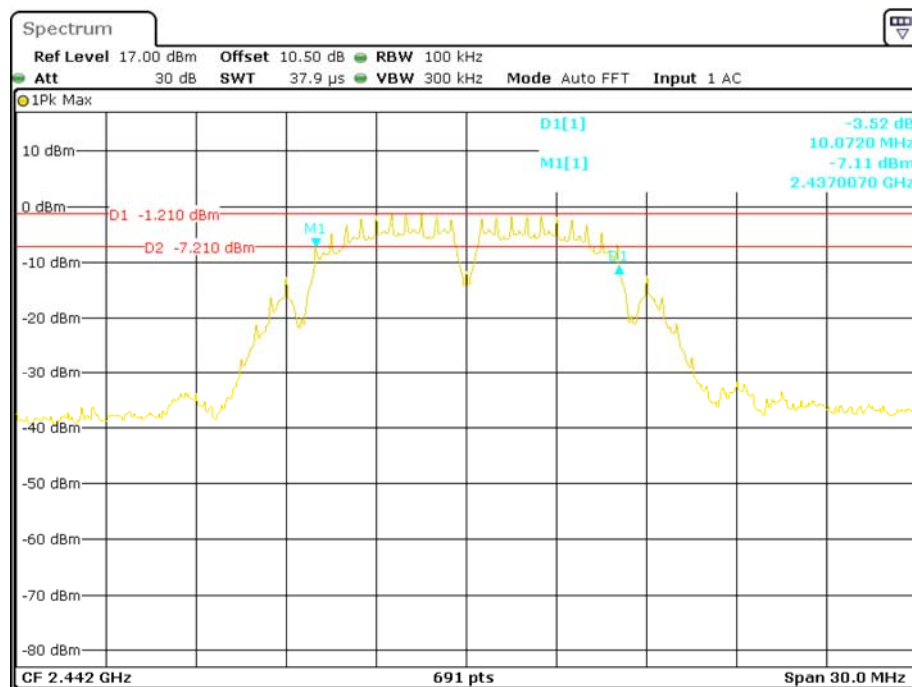
Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (kHz)
802.11b mode			
Low	2412	10.07	≥ 500
Middle	2442	10.07	≥ 500
High	2472	10.07	≥ 500
802.11g mode			
Low	2412	16.37	≥ 500
Middle	2442	16.37	≥ 500
High	2472	16.37	≥ 500
802.11n-HT20 mode			
Low	2412	17.37	≥ 500
Middle	2442	17.37	≥ 500
High	2472	17.37	≥ 500

802.11b Low Channel



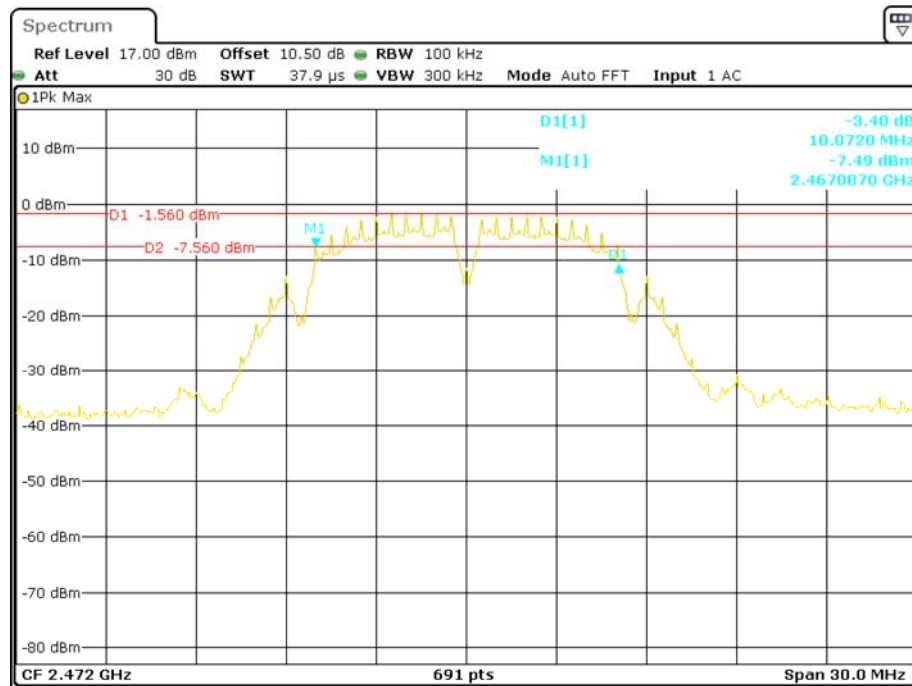
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802.11b Middle Channel

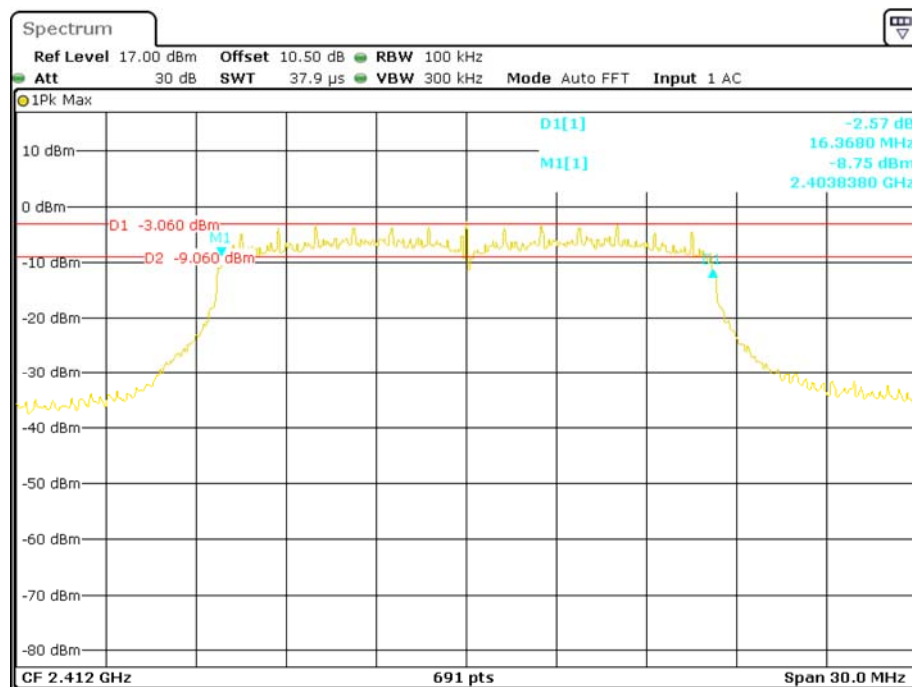


Date: 13.OCT.2015 17:22:24

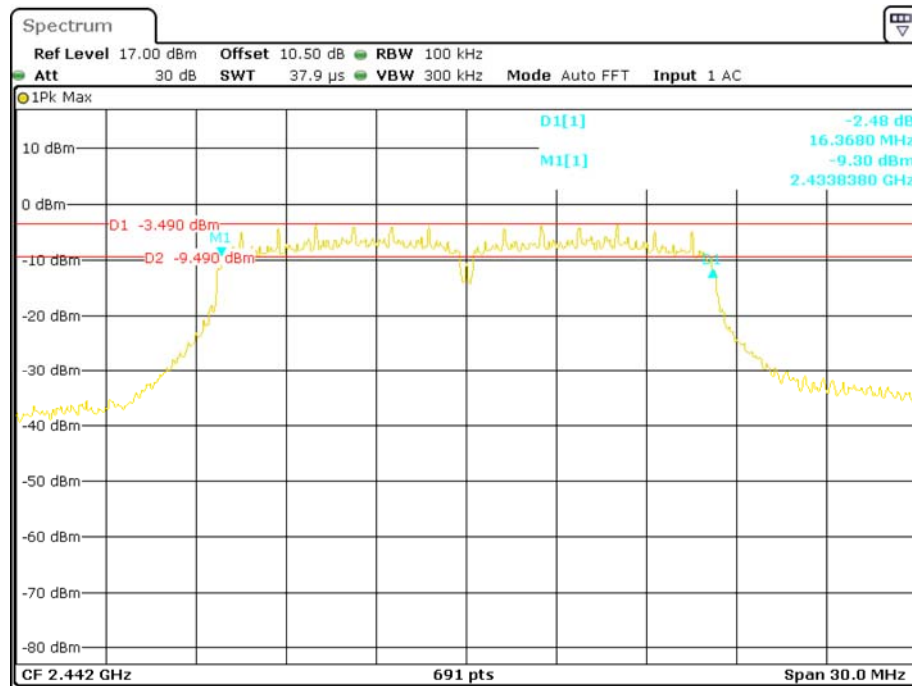
802.11b High Channel



802.11g Low Channel

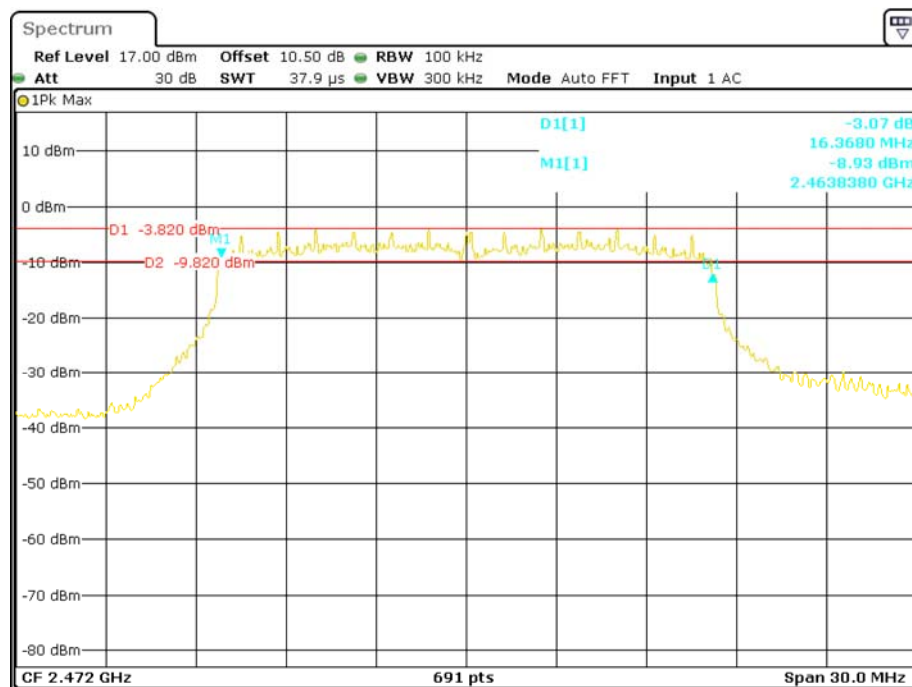


802.11g Middle Channel



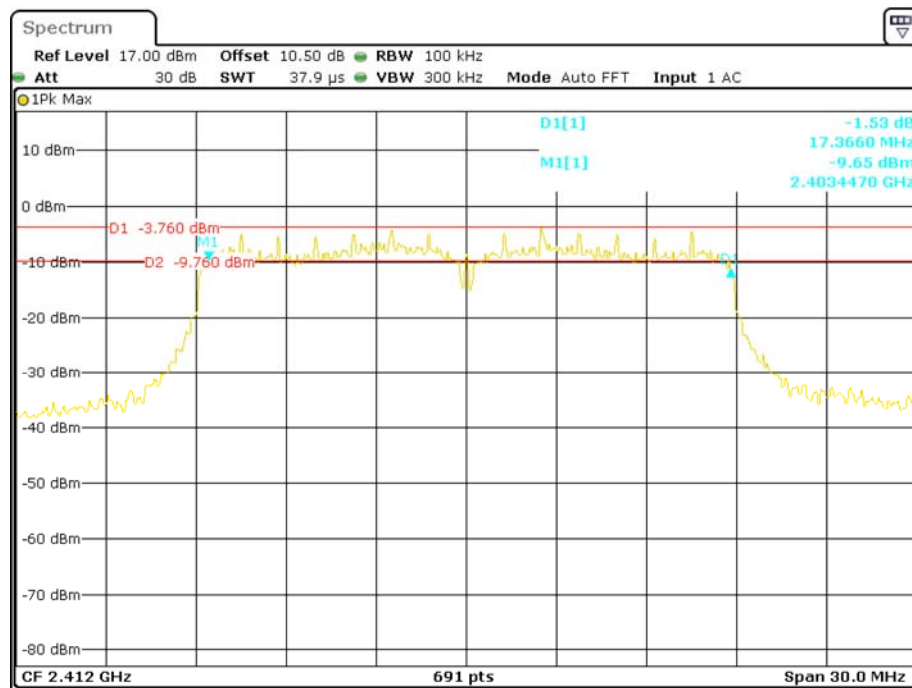
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802.11g High Channel



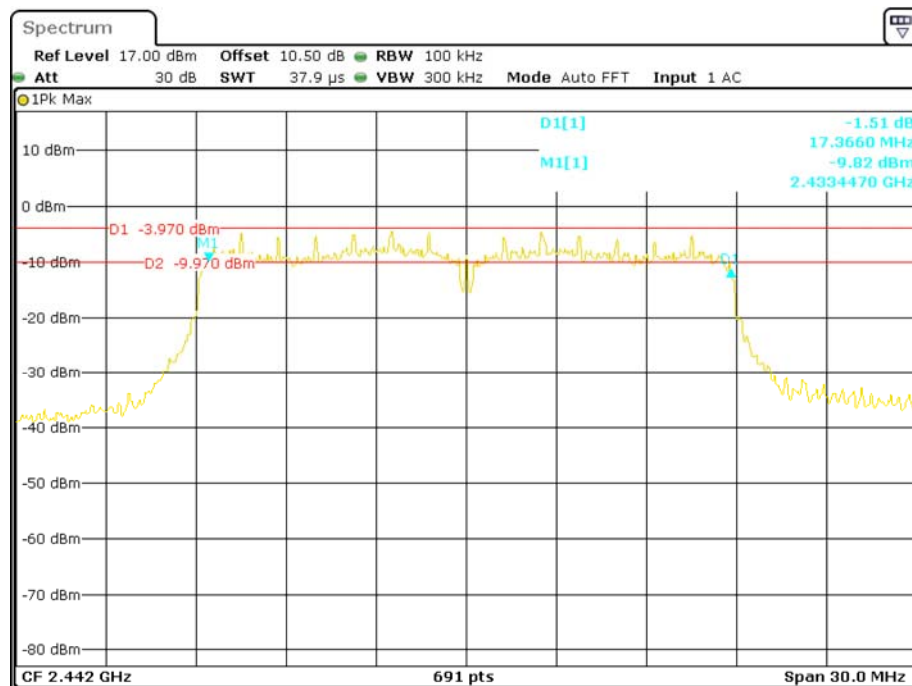
Date: 13.OCT.2015 17:33:47

802.11n-HT20 Low Channel



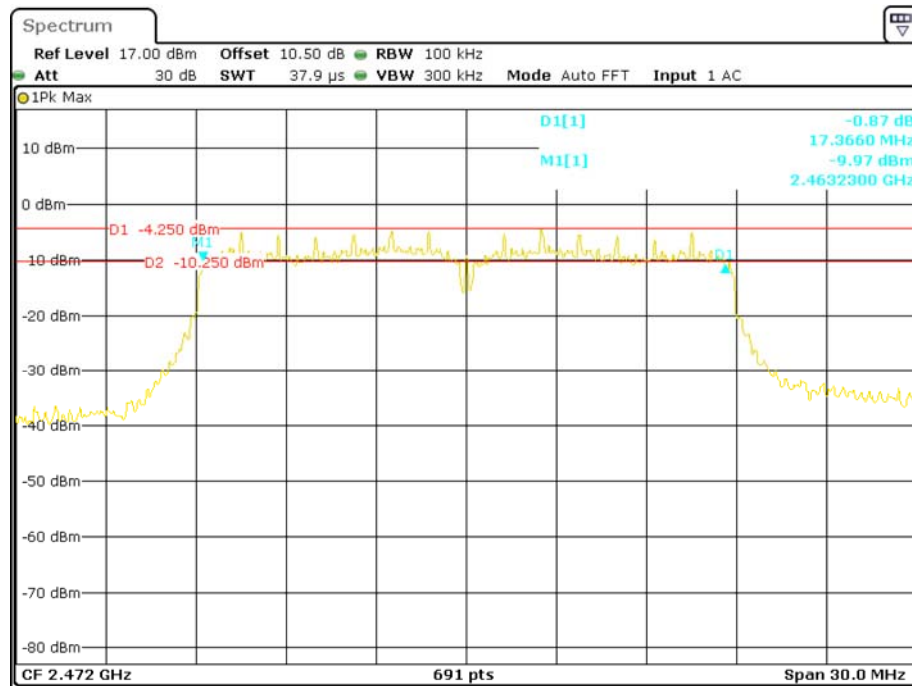
Date: 13.OCT.2015 17:35:41

802.11n-HT20 Middle Channel



Date: 13.OCT.2015 17:36:52

802.11n-HT20 High Channel



Date: 13.OCT.2015 17:38:54

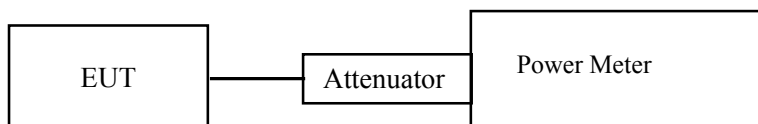
FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER

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.



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	Power Meter	N1912A	MY5000448	2014-11-03	2015-11-03
HP	Power Sensor	N1921A	MY54210016	2014-11-03	2015-11-03
Ducommun technologies	RF Cable	RG-214	3	2015-06-15	2016-06-15
WEINSCHTEL	10dB Attenuator	5324	AU0709	2015-06-18	2016-06-18

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

Test Data**Environmental Conditions**

Temperature:	25 °C
Relative Humidity:	51 %
ATM Pressure:	101.0 kPa

The testing was performed by Haiguo Li on 2015-10-16.

EUT operation mode: Transmitting

Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Max Conducted Average Output Power (dBm)	Limit (dBm)
	802.11b			
Low	2412	13.67	9.33	30
Middle	2442	13.75	9.29	30
High	2472	13.40	8.82	30
	802.11g			
Low	2412	17.03	8.97	30
Middle	2442	17.68	9.08	30
High	2472	17.26	8.93	30
	802.11n HT20			
Low	2412	16.53	8.22	30
Middle	2442	16.85	8.32	30
High	2472	17.05	8.16	30

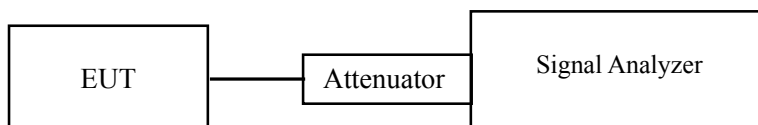
FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE

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 Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESR	1316.3003K03 -101746-zn	2015-06-13	2016-06-13
Ducommun technologies	RF Cable	RG-214	3	2015-06-15	2016-06-15
WEINSCHEL	10dB Attenuator	5324	AU0709	2015-06-18	2016-06-18

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

Test Data**Environmental Conditions**

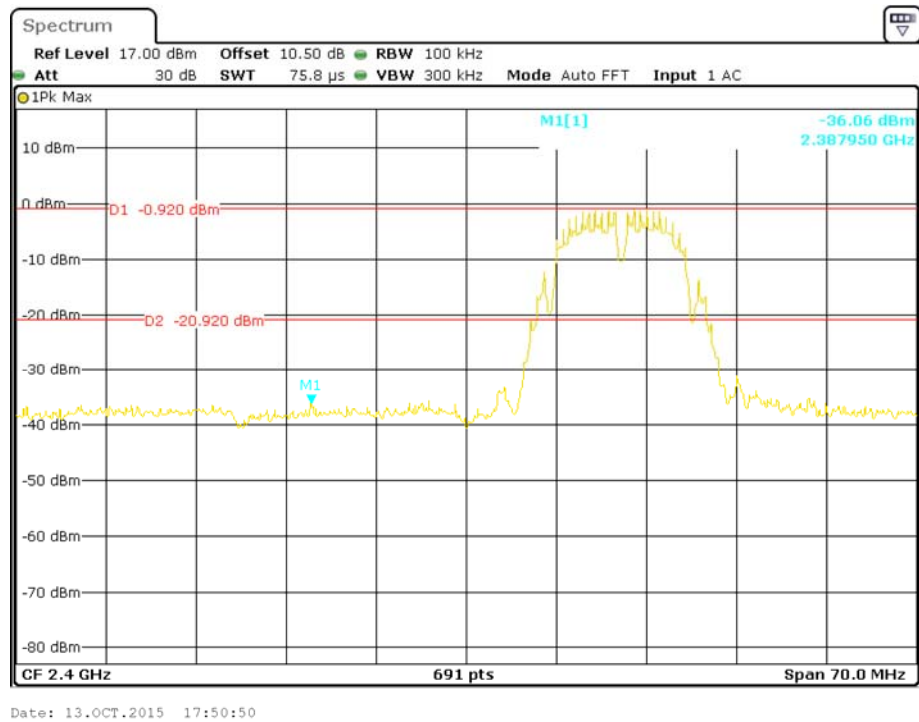
Temperature:	25 °C
Relative Humidity:	51 %
ATM Pressure:	101.0 kPa

The testing was performed by Haiguo Li on 2015-10-13.

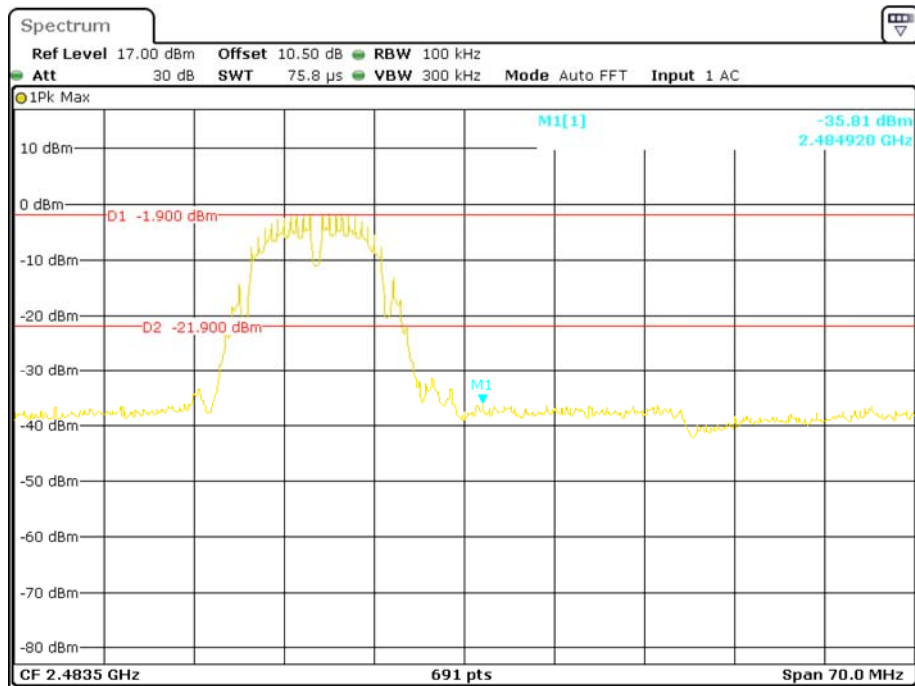
EUT operation mode: Transmitting

Test Result: Compliance

Please refer to the following plots.

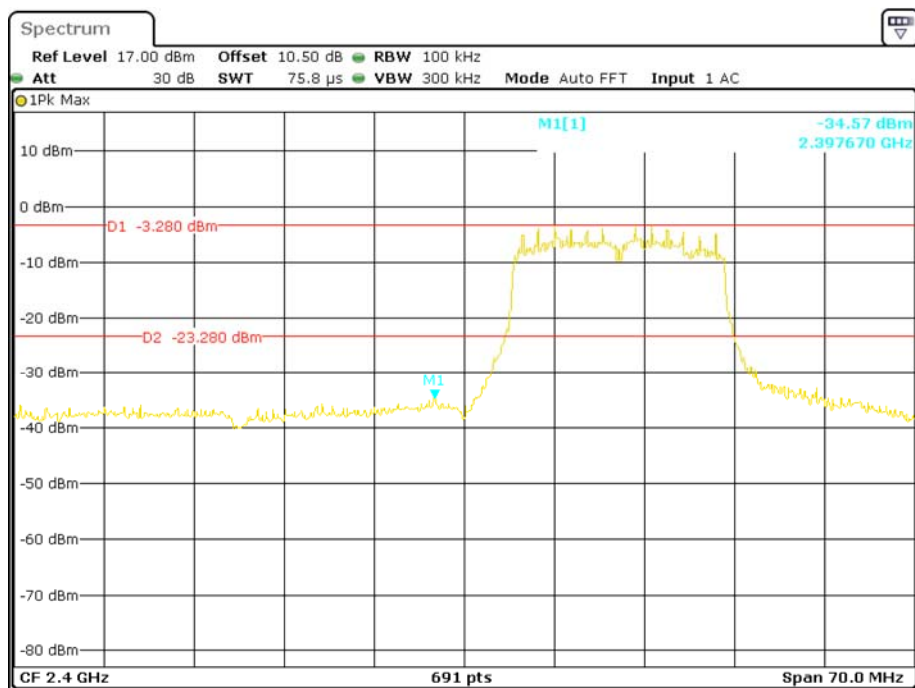
802.11b: Band Edge, Left Side

802.11b: Band Edge, Right Side



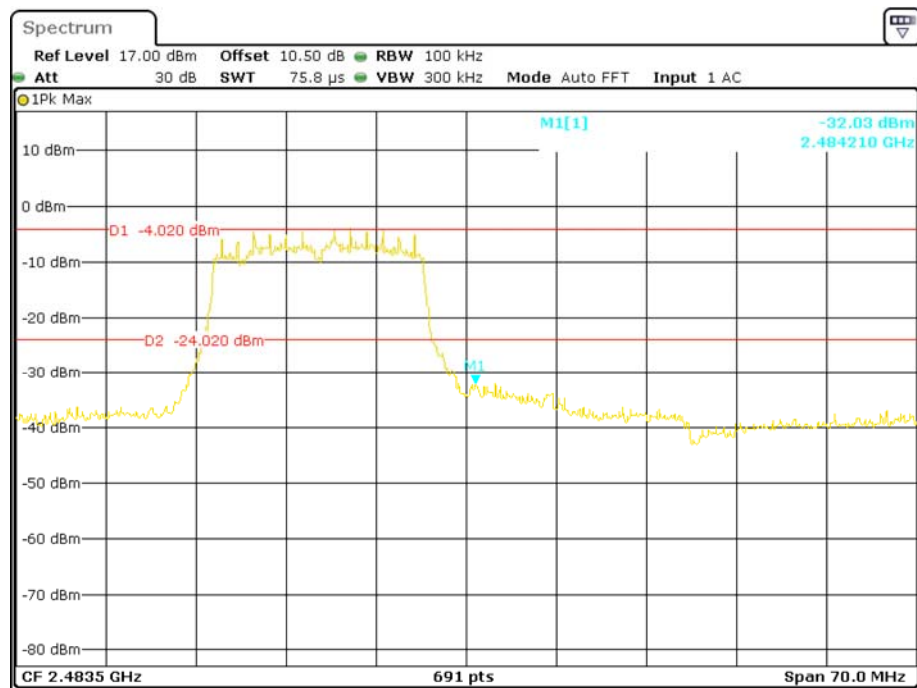
Date: 13.OCT.2015 17:48:19

802.11g: Band Edge, Left Side



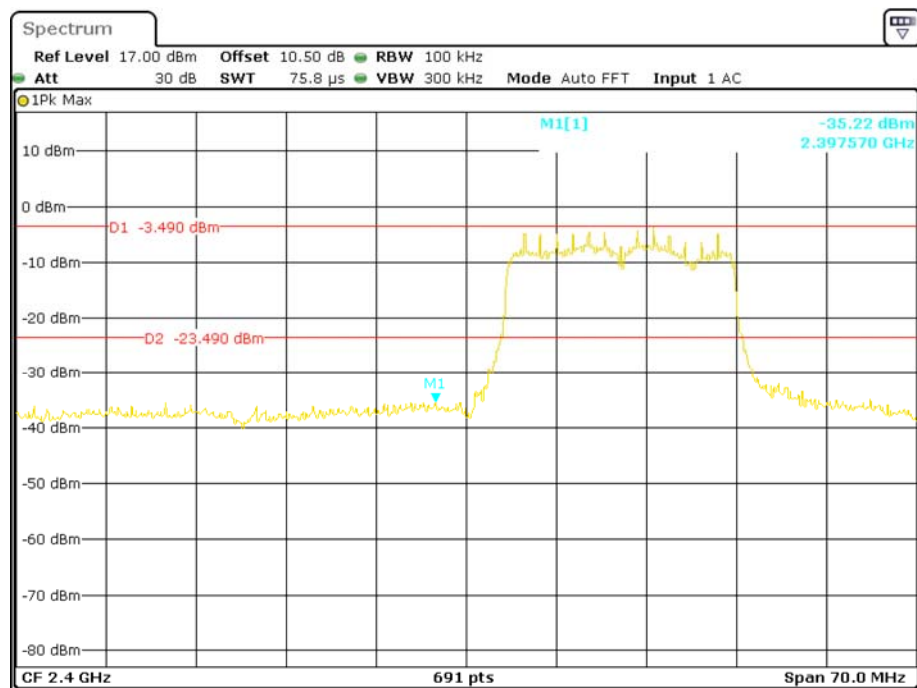
Date: 13.OCT.2015 17:42:23

802.11g: Band Edge, Right Side

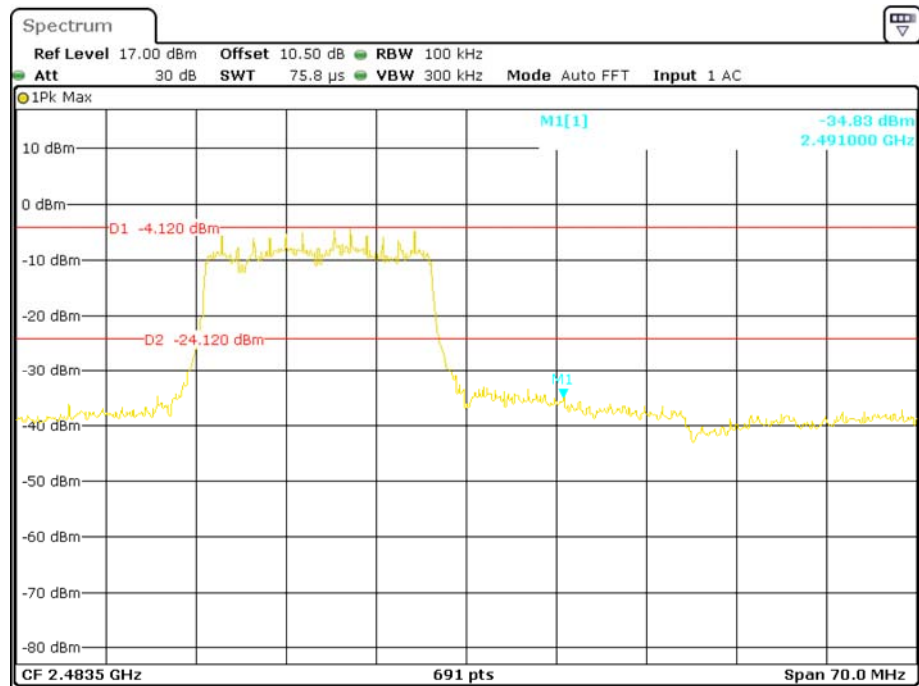


Date: 13.OCT.2015 17:47:01

802.11n-HT20: Band Edge, Left Side



Date: 13.OCT.2015 17:44:17

802.11n-HT20: Band Edge, Right Side

Date: 13.OCT.2015 17:45:39

FCC §15.247(e) - POWER SPECTRAL DENSITY

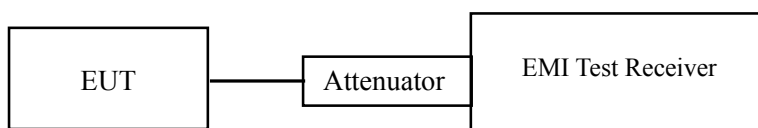
Applicable Standard

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 v03r03 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 Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESR	1316.3003K03-101746-zn	2015-06-13	2016-06-13
Ducommun technologies	RF Cable	RG-214	3	2015-06-15	2016-06-15
WEINSCHEL	10dB Attenuator	5324	AU0709	2015-06-18	2016-06-18

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

Test Data**Environmental Conditions**

Temperature:	25 °C
Relative Humidity:	51 %
ATM Pressure:	101.0 kPa

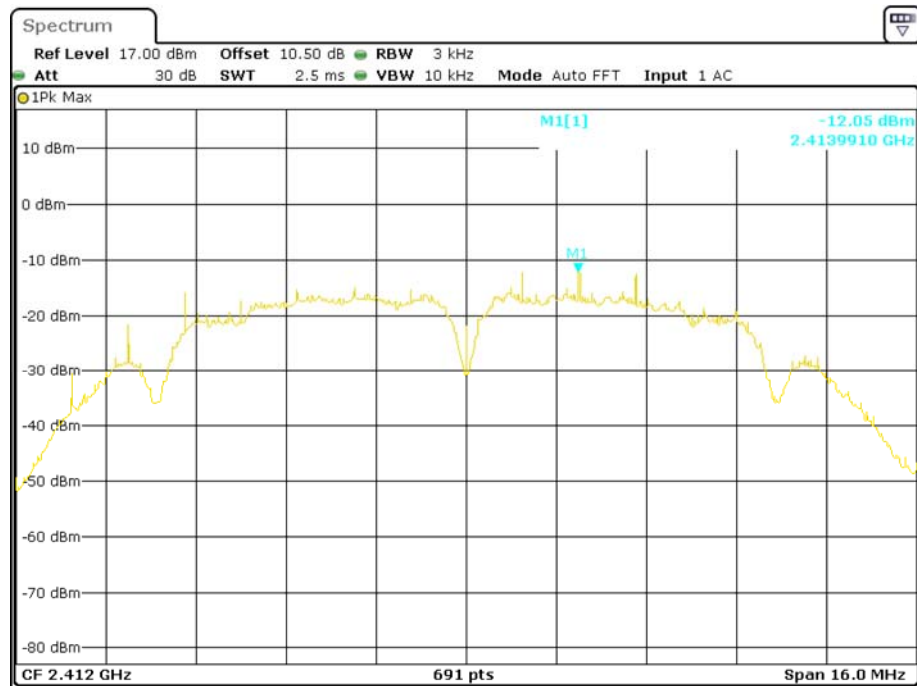
The testing was performed by Haiguo Li on 2015-10-13.

EUT operation mode: Transmitting

Test Result: Pass

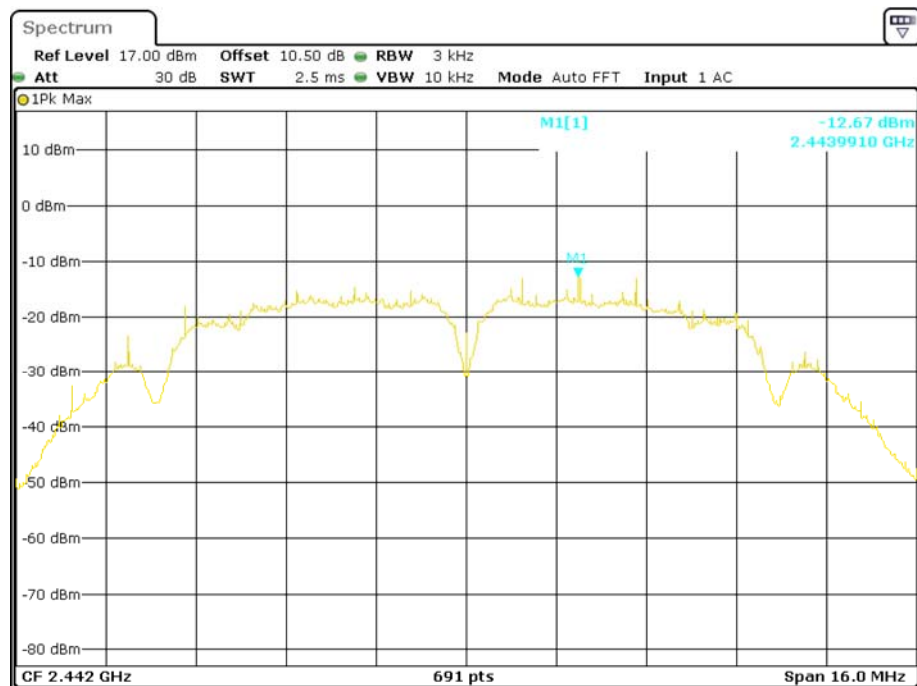
Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)
802.11b mode			
Low	2412	-12.05	≤8
Middle	2442	-12.67	≤8
High	2472	-12.37	≤8
802.11g mode			
Low	2412	-14.94	≤8
Middle	2442	-15.56	≤8
High	2472	-16.52	≤8
802.11n-HT20 mode			
Low	2412	-11.53	≤8
Middle	2442	-12.31	≤8
High	2472	-12.40	≤8

Power Spectral Density, 802.11b Low Channel



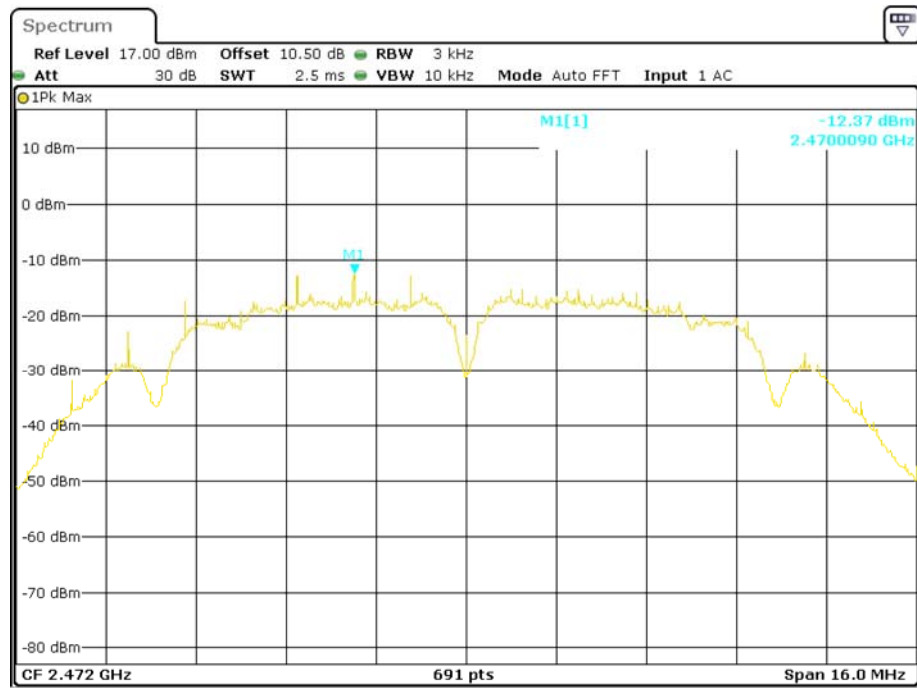
Date: 13.OCT.2015 17:56:15

Power Spectral Density, 802.11b Middle Channel



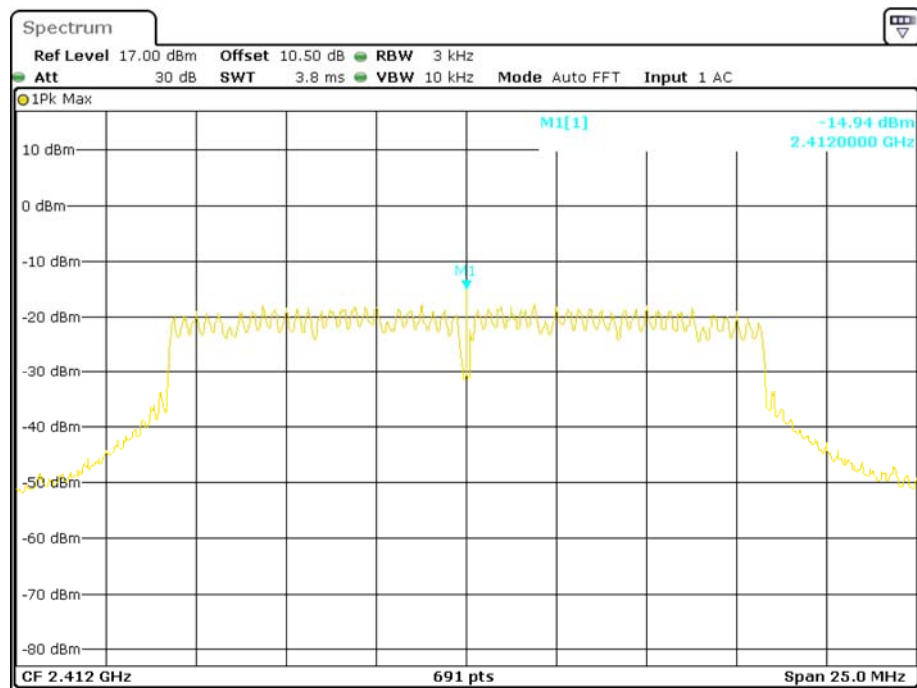
Date: 13.OCT.2015 17:54:12

Power Spectral Density, 802.11b High Channel

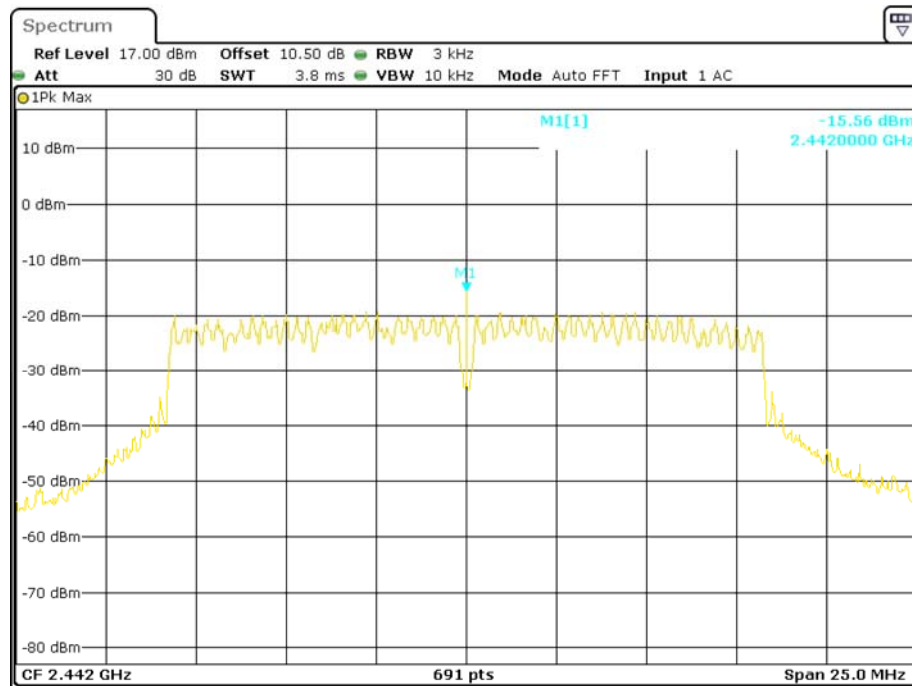


Date: 13.OCT.2015 17:55:27

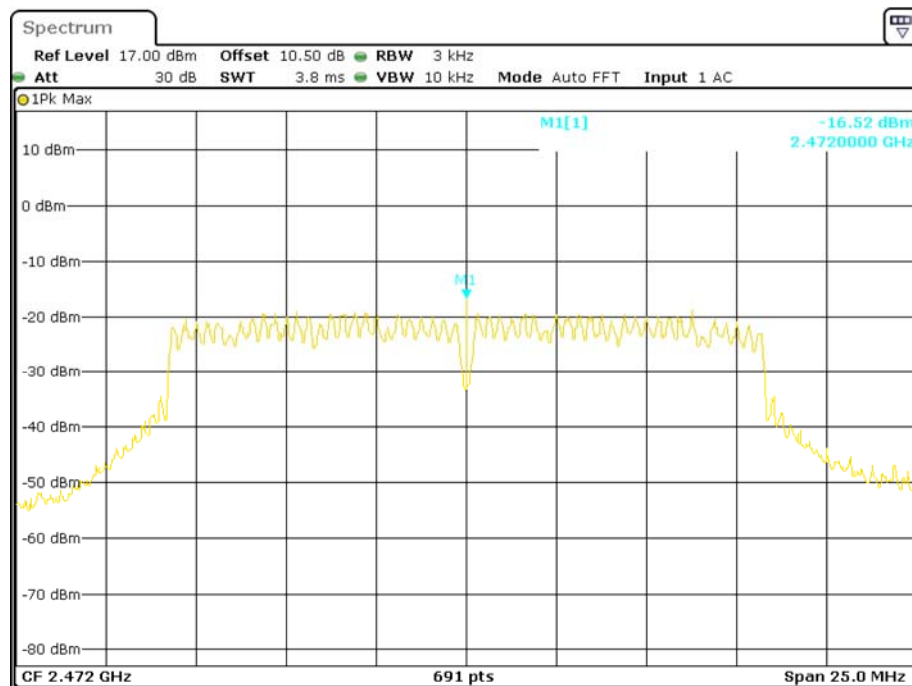
Power Spectral Density, 802.11g Low Channel



Date: 13.OCT.2015 18:00:44

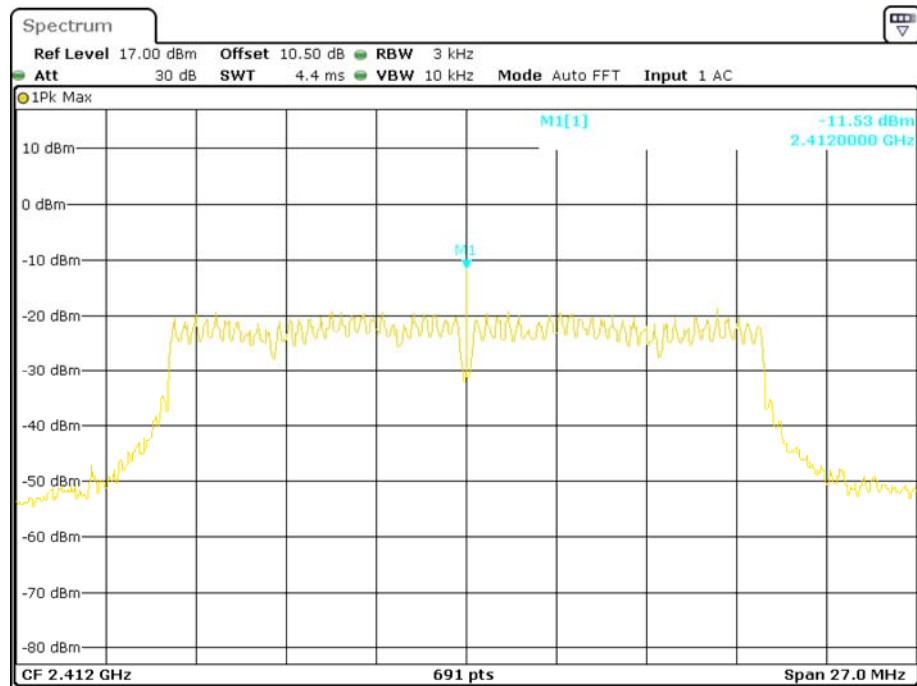
Power Spectral Density, 802.11g Middle Channel

Date: 13.OCT.2015 18:01:15

Power Spectral Density, 802.11g High Channel

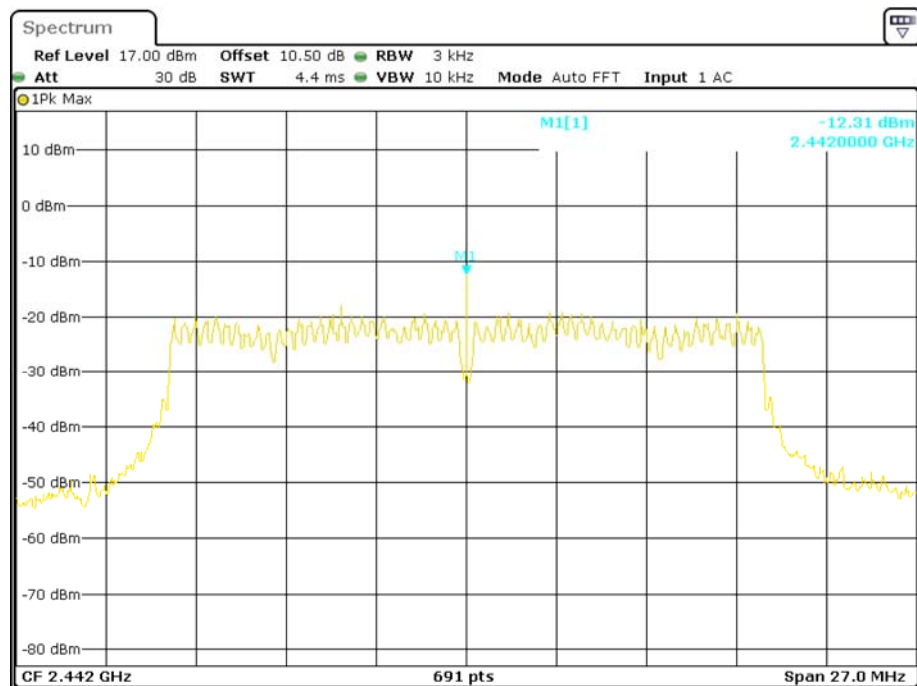
Date: 13.OCT.2015 18:01:59

Power Spectral Density, 802.11n-HT20 Low Channel



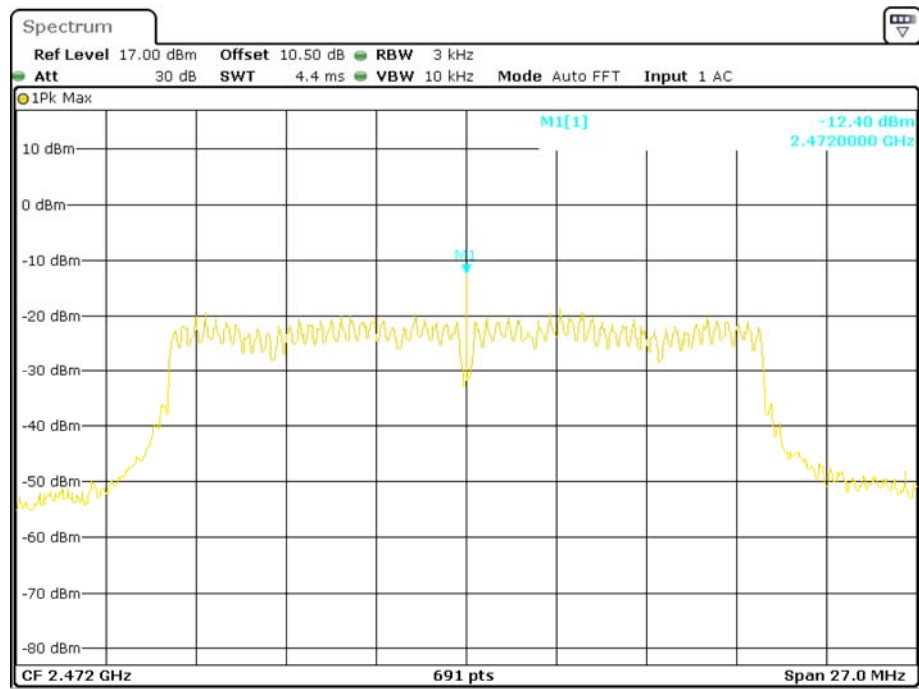
Date: 13.OCT.2015 18:03:29

Power Spectral Density, 802.11n-HT20 Middle Channel



Date: 13.OCT.2015 18:04:25

Power Spectral Density, 802.11n-HT20 High Channel



Date: 13.OCT.2015 18:04:56

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