

FCC PART 15.247 TEST REPORT

For

DT Research Inc.

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FCC ID: YE3800I Model: DT301

Report Type: Product Type: Mobile Tablet Original Report Costa day **Test Engineer:** Costa Dong **Report Number:** RDG160608001-00B **Report Date:** 2016-07-11 Dean Liu RF Engineer **Reviewed By: Test Laboratory:** Bay Area Compliance Laboratories Corp. (Dongguan) No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China Tel: +86-769-86858888 Fax: +86-769-86858891 www.baclcorp.com.cn

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

TABLE OF CONTENTS

GENERAL INFORMATION	4
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	4
Objective	4
RELATED SUBMITTAL(S)/GRANT(S)	
TEST METHODOLOGY	
Test Facility	4
SYSTEM TEST CONFIGURATION	5
DESCRIPTION OF TEST CONFIGURATION	
EQUIPMENT MODIFICATIONS	
EUT Exercise Software	
LOCAL SUPPORT EQUIPMENT LIST AND DETAILS	
SUPPORT CABLE LIST AND DETAILS	6
BLOCK DIAGRAM OF TEST SETUP	
SUMMARY OF TEST RESULTS	7
FCC §15.247 (i) & §1.1310 & §2.1093- RF EXPOSURE	8
APPLICABLE STANDARD	
FCC §15.203 - ANTENNA REQUIREMENT	9
APPLICABLE STANDARD	9
ANTENNA CONNECTOR CONSTRUCTION	
FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS	10
APPLICABLE STANDARD	10
MEASUREMENT UNCERTAINTY	10
EUT SETUP	
EMI TEST RECEIVER SETUP	
TEST PROCEDURE	11
CORRECTED AMPLITUDE & MARGIN CALCULATION	
TEST EQUIPMENT LIST AND DETAILS.	
TEST RESULTS SUMMARY	
TEST DATA	
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS	
APPLICABLE STANDARD	
MEASUREMENT UNCERTAINTY	
EUT SETUP	
EMI TEST RECEIVER & SPECTRUM ANALYZER SETUP	
TEST PROCEDURE	
TEST EQUIPMENT LIST AND DETAILS.	
TEST RESULTS SUMMARY	
TEST DATA	
FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH	
APPLICABLE STANDARD	
TEST PROCEDURE	29
TEST EQUIPMENT LIST AND DETAILS.	29
Test Data	
FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER	44

APPLICABLE STANDARD	44
TEST PROCEDURE	44
TEST EQUIPMENT LIST AND DETAILS	
TEST DATA	44
FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE	47
APPLICABLE STANDARD	
TEST PROCEDURE	47
TEST EQUIPMENT LIST AND DETAILS.	47
TEST DATA	47
FCC §15.247(e) - POWER SPECTRAL DENSITY	57
APPLICABLE STANDARD	57
TEST PROCEDURE	57
TEST EQUIPMENT LIST AND DETAILS.	57
TEST DATA	57

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *DT Research Inc.*'s product, model number: *DT301 (FCC ID: YE3800I)* (the "EUT") in this report was a *Mobile Tablet*, which was measured approximately: 27.2 cm (L) x 19.0 cm (W) x 2.2 cm (H), rated input voltage: DC 7.2V rechargeable Li-ion battery or DC19V charging from adapter. The device used Intel[®] Dual Band Wireless-AC 7265 module, FCC ID:PD97265NG, which support Bluetooth 4.0 standard include BLE and 802.11a/b/g/n/ac.

Report No.: RDG160608001-00B

Adapter information: Model: A11-065N1A

Input: 100-240V~50/60Hz, 1.7A

Output: 19V, 3.42A

All measurement and test data in this report was gathered from production sample serial number: 160608001 (Assigned by BACL, Dongguan). The EUT was received on 2016-06-08.

Objective

This report is prepared on behalf of *DT Research Inc.* in accordance with Part 2, Subpart J, Part 15, Subparts A, B and C of the Federal Communications Commission's rules

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

Related Submittal(s)/Grant(s)

FCC Part 15C DSS, 15E NII and Part 22H, 24E, 27 PCB submissions with FCC ID: YE3800I.

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 and Bay Area Compliance Laboratories Corp. (Dongguan).

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China

Test site at Bay Area Compliance Laboratories Corp. (Dongguan) has been fully described in reports submitted to the Federal Communications 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 February 06, 2015.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 273710. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

FCC Part 15.247 Page 4 of 71

Description of Test Configuration

The system was configured for testing in Engineering mode, which was provided by manufacturer. For 2.4GHz WLAN, 11 channels are provided to testing:

Channel	Frequency (MHz) Channel		Frequency (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437	/	/

Report No.: RDG160608001-00B

For 802.11b, 802.11g, and 802.11n20 modes were tested with Channel 1, 6 and 11.

For 802.11n40 mode were tested with Channel 3, 6 and 9.

The device supports SISO at all modes and MIMO at 802.11n modes.

For Bluetooth LE mode, 40 channels are provided for testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2442
1	1 2404		
•••			
		38	2478
19	2440	39	2480

EUT was tested with channel 0, 19 and 39.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

The Engineering mode was configured by the software: DRTU V1.7.7, which was used to configure the test channel, and test data rate, the maximum power level was configured as default value by the system.

For WLAN, 100% ducty cycle was configured by the software, the worst-case data rates are determined to be as follows for each mode based upon investigations by measuring the average power and PSD across all data rates bandwidths, and modulations. The worst data rates as below:

802.11b: 1Mbps 802.11g: 6Mbps

802.11n ht20 \$ISO: MCS0 802.11n ht20 MIMO: MCS8 802.11n ht40 SISO: MCS0 802.11n ht40 MIMO: MCS8

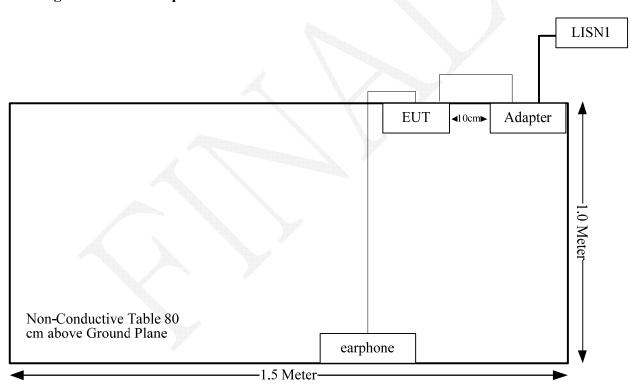
FCC Part 15.247 Page 5 of 71

Manufacturer	Description	Model	Serial Number
Huawei	Earphone	/	/

Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	То
Adapter cable	Yes	No	1.83	Adapter	EUT
Earphone Cable	No	No	1.2	EUT	Earphone

Block Diagram of Test Setup



FCC Part 15.247 Page 6 of 71

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §15.247 (i) & §1.1310 & §2.1093	RF Exposure	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 Comp	
§15.247(e)	Power Spectral Density Compli	

Report No.: RDG160608001-00B

FCC Part 15.247 Page 7 of 71

FCC §15.247 (i) & §1.1310 & §2.1093- RF EXPOSURE

Applicable Standard

According to §15.247(i) and §1.1310, 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.

Report No.: RDG160608001-00B

According to KDB447498 D01 General RF Exposure Guidance v05r02:

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

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance,

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

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is ≤ 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

Measurement Result

For BLE mode:

The maximum output power including tolerance is 0.4 dBm (1.1mW) [(max. power of channel, mW)/(min. test separation distance, mm)][$\sqrt{f(GHz)}$] = 1.1/5*($\sqrt{2.480}$) = 0.4 < 3.0

So the stand-alone SAR evaluation for BLE is not necessary.

For WLAN mode, please refer to SAR test report RDG160608001-20.

FCC Part 15.247 Page 8 of 71

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:

Report No.: RDG160608001-00B

- 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.

Antenna Connector Construction

The EUT has two internal antenna arrangement for WLAN, and the Bluetooth use the AUX antenna in common, fulfill the requirement of this section. The antenna parameters please refer below table.

Frequency (GHz)	Main antenna Peak Gain (dBi)	AUX antenna Peak Gain (dBi)	
2.4	0.86	3.25	
2.45	1.02	4.08	
2.5	0.69	4.14	
5.15	1.6	6.01	
5.25	5.02	5.87	
5.35	3.37	4.40	
5.47	2.89	4.54	
5.6	4.38	5.42	
5.725	4.86	4.15	
5.785	4.16	3.36	
5.85	3.37	3.67	

Result: Compliance.

FCC Part 15.247 Page 9 of 71

FCC §15.207 (a) - AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207

Measurement Uncertainty

Compliance or non- compliance with a disturbance limit shall be determined in the following manner:

Report No.: RDG160608001-00B

If U_{lab} is less than or equal to U_{cispr} of Table 1, then:

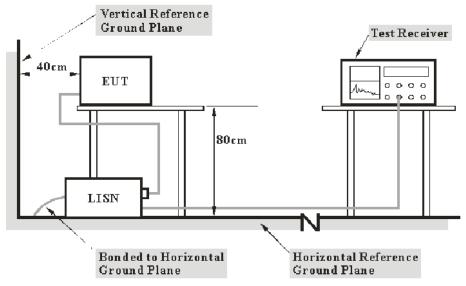
- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit. If U_{lab} is greater than U_{cispr} of Table 1, then:
- compliance is deemed to occur if no measured disturbance level, increased by $(U_{lab} U_{cispr})$, exceeds the disturbance limit;
- non compliance is deemed to occur if any measured disturbance level, increased by $(U_{\text{lab}} U_{\text{cispr}})$, exceeds the disturbance limit.

Based on CISPR 16-4-2-2011, measurement uncertainty of conducted disturbance at mains port using AMN at Bay Area Compliance Laboratories Corp. (Dongguan) is 3.12 dB (150 kHz to 30 MHz).

Table 1 – Values of
$$U_{\text{cispr}}$$

Measurement	$U_{ m cispr}$
Conducted disturbance at mains port using AMN (150 kHz to 30 MHz)	3.4 dB

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.

FCC Part 15.247 Page 10 of 71

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.

Report No.: RDG160608001-00B

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 first 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 Amplitude & Margin Calculation

The basic equation is as follows:

$$V_C = V_R + A_C + VDF$$
$$C_f = A_C + VDF$$

Herein.

V_C (cord. Reading): corrected voltage amplitude

V_R: reading voltage amplitude A_c: attenuation caused by cable loss VDF: voltage division factor of AMN

C_f: Correction Factor

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

Margin = Limit – Corrected Amplitude

FCC Part 15.247 Page 11 of 71

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCS 30	830245/006	2015-10-20	2016-10-20
R&S	L.I.S.N	ESH2-Z5	892107/021	2015-07-16	2016-07-15
R&S	Two-line V-network	ENV 216	3560.6550.12	2015-11-26	2016-11-25
N/A	Coaxial Cable	1.8m	N/A	2016-05-06	2017-05-06
R&S	Test Software	EMC32	Version8.53.0	N/A	N/A

Report No.: RDG160608001-00B

Test Results Summary

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

3.6 dB at 0.166371 MHz in the Line conducted mode for BLE mode

Test Data

Environmental Conditions

Temperature:	27.8°C
Relative Humidity:	45 %
ATM Pressure:	100.4 kPa

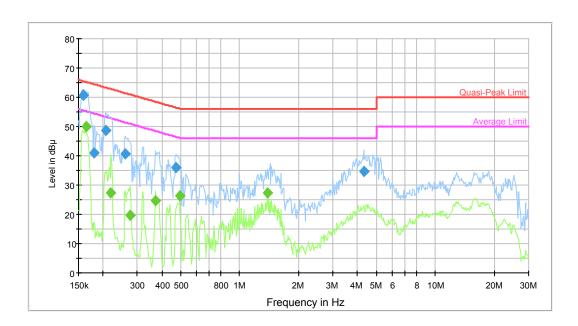
The testing was performed by Costa Dong on 2016-06-10.

FCC Part 15.247 Page 12 of 71

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

Test Mode: Wifi -Transmitting

AC120 V, 60 Hz, Line:

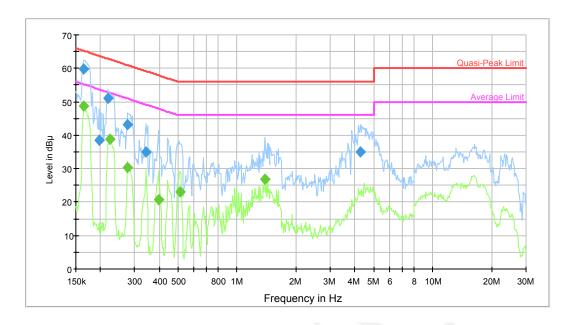


Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.158604	60.6	9.000	L1	10.2	5.0	65.5	Compliance
0.180171	41.0	9.000	L1	10.2	23.5	64.5	Compliance
0.206306	48.7	9.000	L1	10.2	14.7	63.4	Compliance
0.259937	40.7	9.000	L1	10.2	20.7	61.4	Compliance
0.472507	36.1	9.000	L1	10.1	20.4	56.5	Compliance
4.295123	34.8	9.000	L1	10.7	21.2	56.0	Compliance

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.163741	50.1	9.000	L1	10.1	5.2	55.3	Compliance
0.219886	27.3	9.000	L1	10.2	25.5	52.8	Compliance
0.277046	19.8	9.000	L1	10.2	31.1	50.9	Compliance
0.372042	24.7	9.000	L1	10.3	23.8	48.5	Compliance
0.491712	26.5	9.000	L1	10.1	19.7	46.1	Compliance
1.385415	27.2	9.000	L1	10.4	18.8	46.0	Compliance

FCC Part 15.247 Page 13 of 71

AC120 V, 60 Hz, Neutral:



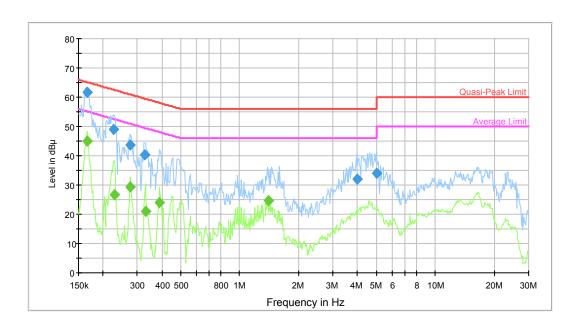
				100			
Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.165051	59.7	9.000	N	10.1	5.5	65.2	Compliance
0.196675	38.4	9.000	N	10.2	25.4	63.7	Compliance
0.219886	51.1	9.000	N	10.2	11.7	62.8	Compliance
0.277046	43.1	9.000	N	10.2	17.8	60.9	Compliance
0.343548	35.1	9.000	N	10.3	24.0	59.1	Compliance
4.261034	34.9	9.000	N	10.7	21.1	56.0	Compliance

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.165051	48.6	9.000	N	10.1	6.6	55.2	Compliance
0.225205	38.7	9.000	N	10.2	13.9	52.6	Compliance
0.277046	30.2	9.000	N	10.2	20.7	50.9	Compliance
0.396530	20.6	9.000	N	10.2	27.3	47.9	Compliance
0.511698	23.0	9.000	N	10.1	23.0	46.0	Compliance
1.385415	26.8	9.000	N	10.4	19.2	46.0	Compliance

FCC Part 15.247 Page 14 of 71

Test Mode: Transmitting (BLE)

AC120 V, 60 Hz, Line:

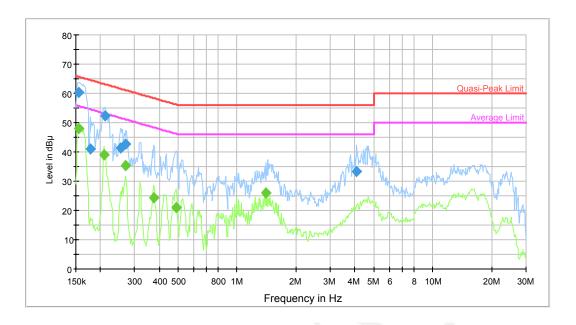


Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.166371	61.6	9.000	L1	10.1	3.6	65.1	Compliance
0.227007	49.0	9.000	L1	10.2	13.5	62.6	Compliance
0.277046	43.6	9.000	L1	10.2	17.3	60.9	Compliance
0.327509	40.2	9.000	L1	10.3	19.3	59.5	Compliance
3.966160	32.0	9.000	L1	10.7	24.0	56.0	Compliance
4.997188	34.1	9.000	L1	10.7	21.9	56.0	Compliance

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.166371	45.1	9.000	L1	10.1	10.0	55.1	Compliance
0.228823	26.7	9.000	L1	10.2	25.8	52.5	Compliance
0.277046	29.4	9.000	L1	10.2	21.5	50.9	Compliance
0.330129	20.9	9.000	L1	10.3	28.6	49.4	Compliance
0.390261	24.1	9.000	L1	10.2	24.0	48.1	Compliance
1.407671	24.7	9.000	L1	10.4	21.3	46.0	Compliance

FCC Part 15.247 Page 15 of 71

AC120 V, 60 Hz, Neutral:



		ANY CONTRACTOR OF THE PROPERTY		Villa .			
Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.156097	60.2	9.000	N	10.1	5.5	65.7	Compliance
0.177322	41.1	9.000	N	10.1	23.5	64.6	Compliance
0.211298	52.4	9.000	N	10.2	10.7	63.2	Compliance
0.253797	41.2	9.000	N	10.2	20.4	61.6	Compliance
0.270502	42.5	9.000	N	10.2	18.6	61.1	Compliance
4.094608	33.4	9.000	N	10.7	22.6	56.0	Compliance

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.154858	47.9	9.000	N	10.2	7.8	55.7	Compliance
0.209621	38.9	9.000	N	10.2	14.3	53.2	Compliance
0.270502	35.5	9.000	N	10.2	15.6	51.1	Compliance
0.375019	24.5	9.000	N	10.2	23.9	48.4	Compliance
0.487810	20.9	9.000	N	10.1	25.3	46.2	Compliance
1.407671	26.2	9.000	N	10.4	19.8	46.0	Compliance

FCC Part 15.247 Page 16 of 71

Applicable Standard

FCC §15.247 (d); §15.209; §15.205;

Measurement Uncertainty

Compliance or non- compliance with a disturbance limit shall be determined in the following manner:

Report No.: RDG160608001-00B

If U_{lab} is less than or equal to U_{cispr} of Table 2, then:

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit. If U_{lab} is greater than U_{cispr} of Table 2, then:
- compliance is deemed to occur if no measured disturbance level, increased by $(U_{lab} U_{cispr})$, exceeds the disturbance limit;
- non compliance is deemed to occur if any measured disturbance level, increased by $(U_{\text{lab}} U_{\text{cispr}})$, exceeds the disturbance limit.

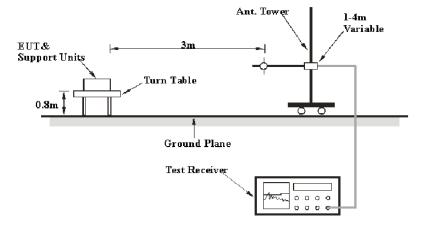
Based on CISPR 16-4-2: 2011, measurement uncertainty of radiated emission at a distance of 10m at Bay Area Compliance Laboratories Corp. (Dongguan) is:30M~200MHz: 4.55 dB for Horizontal, 4.57 dB for Vertical; 200M~1GHz: 4.66 dB for Horizontal, 4.56 dB for Vertical; measurement uncertainty of radiated emission at a distance of 3m at Bay Area Compliance Laboratories Corp. (Dongguan) is:30M~200MHz: 4.58 dB for Horizontal, 4.59 dB for Vertical; 200M~1GHz: 4.83 dB for Horizontal, 5.85 dB for Vertical; 1G~6GHz: 4.45 dB, 6G~18GHz: 5.23 dB

Table 2 – Values of U_{cispr}

Measurement					
Radiated disturbance (electric field strength at an OATS or in a SAC) (30 MHz to 1000 MHz)	6.3 dB				
Radiated disturbance (electric field strength in a FAR) (1 GHz to 6 GHz)	5.2 dB				
Radiated disturbance (electric field strength in a FAR) (6 GHz to 18 GHz)	5.5 dB				

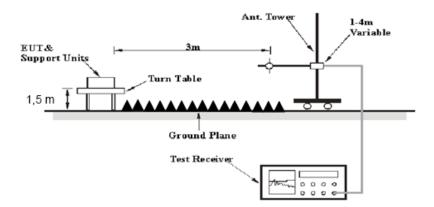
EUT Setup

Below 1GHz:



FCC Part 15.247 Page 17 of 71

Above 1GHz:



Report No.: RDG160608001-00B

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 external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

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
Above 1 CHa	1MHz	3 MHz	/	PK
Above 1 GHz	1MHz	10 Hz	/	Ave.

Test Procedure

During the radiated emission test, the adapter was connected to the first AC floor outlet and the other support equipments were connected to the second AC floor outlet.

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.

FCC Part 15.247 Page 18 of 71

Corrected Amplitude & Margin Calculation

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

Report No.: RDG160608001-00B

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

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

Margin = Limit –Corrected Amplitude

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2015-08-03	2016-08-02
Sunol Sciences	Antenna	JB3	A060611-3	2014-11-06	2017-11-05
HP	Amplifier	8447E	2434A02181	2015-09-01	2016-09-01
Agilent	Spectrum Analyzer	E4440A	SG43360054	2015-11-23	2016-11-22
ETS-Lindgren	Horn Antenna	3115	9808-5557	2015-09-06	2018-09-06
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2016-02-19	2017-02-19
R&S	Spectrum Analyzer	FSEM	DE23437	2015-11-23	2016-11-22
Ducommun Technolagies	Horn Antenna	ARH-4223-02	1007726-01 1304	2014-06-16	2017-06-15
N/A	Coaxial Cable	14m	N/A	2016-05-06	2017-05-06
N/A	Coaxial Cable	8m	N/A	2016-05-06	2017-05-06
N/A	Coaxial Cable	0.1m	N/A	2016-05-06	2017-05-06
Quinstar	Amplifier	QLW- 18405536-JO	15964001001	2015-09-06	2016-09-06

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

Test Results Summary

According to the recorded data in following table, the EUT complied with the <u>FCC Title 47, Part 15,</u> Section 15.205, 15.209 and 15.247, with the worst margin reading of:

8.50 dB at **2483.5 MHz** in the **Horizontal** polarization for WiFi Mode (802.11b Mode)

Test Data

Environmental Conditions

Temperature:	27.9 °C
Relative Humidity:	50 %
ATM Pressure:	99.9 kPa

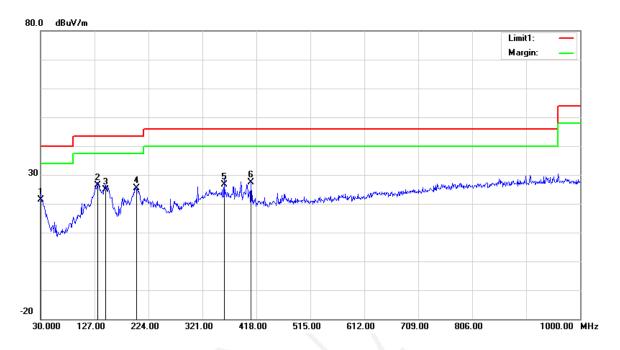
^{*} The testing was performed by Costa Dong on 2016-07-04.

FCC Part 15.247 Page 19 of 71

30MHz-1GHz:

Test Mode: Wifi Transmitting

Horizontal

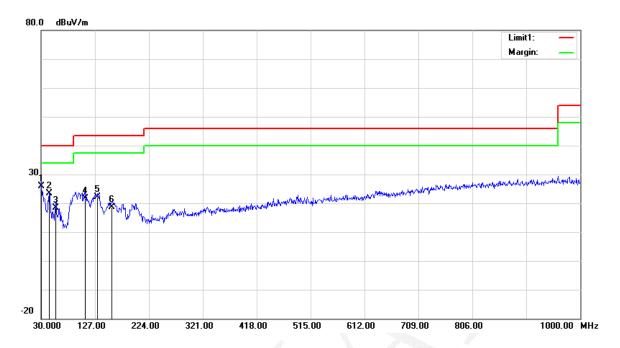


Report No.: RDG160608001-00B

Frequency (MHz)	Receiver Reading (dBµV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
30.0000	20.55	QP	0.95	21.50	40.00	18.50
132.8200	32.30	QP	-5.90	26.40	43.50	17.10
146.4000	31.85	QP	-7.05	24.80	43.50	18.70
202.6600	32.77	QP	-7.47	25.30	43.50	18.20
359.8000	31.15	QP	-4.55	26.60	46.00	19.40
408.3000	30.85	QP	-3.45	27.40	46.00	18.60

FCC Part 15.247 Page 20 of 71

Vertical

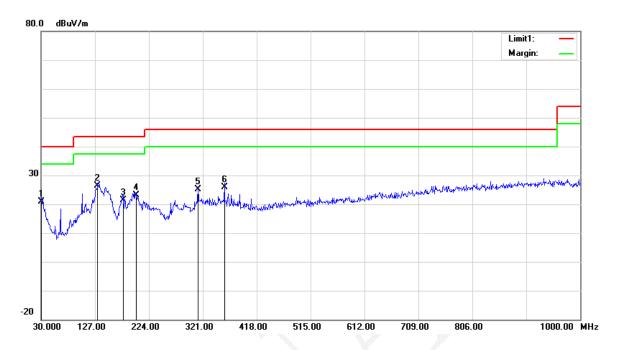


Frequency (MHz)	Receiver Reading (dBµV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
30.0000	24.95	QP	0.95	25.90	40.00	14.10
44.5500	33.03	QP	-9.63	23.40	40.00	16.60
56.1900	31.43	QP	-12.93	18.50	40.00	21.50
109.5400	28.92	QP	-7.32	21.60	43.50	21.90
131.8500	27.94	QP	-5.84	22.10	43.50	21.40
157.0700	25.78	QP	-7.08	18.70	43.50	24.80

FCC Part 15.247 Page 21 of 71

Test Mode: BLE Transmitting

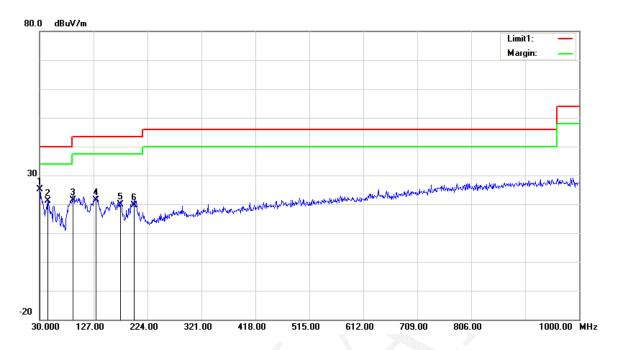
Horizontal



Frequency (MHz)	Receiver Reading (dBµV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
30.9700	20.58	QP	0.22	20.80	40.00	19.20
131.8500	32.24	QP	-5.84	26.40	43.50	17.10
177.4400	29.62	QP	-8.22	21.40	43.50	22.10
200.7200	30.49	QP	-7.29	23.20	43.50	20.30
312.2700	30.65	QP	-5.55	25.10	46.00	20.90
359.8000	30.45	QP	-4.55	25.90	46.00	20.10

FCC Part 15.247 Page 22 of 71

Vertical



Frequency (MHz)	Receiver Reading (dBµV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
30.0000	24.25	QP	0.95	25.20	40.00	14.80
44.5500	30.73	QP	-9.63	21.10	40.00	18.90
90.1400	33.24	QP	-11.94	21.30	43.50	22.20
131.8500	27.24	QP	-5.84	21.40	43.50	22.10
175.5000	27.97	QP	-8.17	19.80	43.50	23.70
199.7500	26.92	QP	-7.32	19.60	43.50	23.90

FCC Part 15.247 Page 23 of 71

1-25GHz:

802.11b Mode

802.1101		eceiver	Rx A	ntenna	Cable	Amplifier	Corrected	T	3.7
Frequency (MHz)	Reading (dBµV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	loss (dB)	Gain (dB)	Amplitude (dBμV/m)	Limit (dBµV/m)	Margin (dB)
	/		, ,	ow Chanr	nel: 2412	MHz			
2412	71.15	PK	Н	25.67	3.68	0.00	100.50	N/A	N/A
2412	66.45	AV	Н	25.67	3.68	0.00	95.80	N/A	N/A
2412	68.16	PK	V	25.67	3.68	0.00	97.51	N/A	N/A
2412	64.12	AV	V	25.67	3.68	0.00	93.47	N/A	N/A
2390	26.82	PK	Н	25.61	3.63	0.00	56.06	74.00	17.94
2390	14.39	AV	Н	25.61	3.63	0.00	43.63	54.00	10.37
4824	37.51	PK	Н	30.64	5.03	27.41	45.77	74.00	28.23
4824	25.32	AV	Н	30.64	5.03	27.41	33.58	54.00	20.42
7236	30.95	PK	Н	34.17	6.65	25.90	45.87	74.00	28.13
7236	18.37	AV	Н	34.17	6.65	25.90	33.29	54.00	20.71
3190	34.5	PK	Н	27.81	6.26	27.38	41.19	74.00	32.81
3190	21.96	AV	Н	27.81	6.26	27.38	28.65	54.00	25.35
			M	iddle Char	nnel: 243	7 MHz			
2437	71.96	PK	Н	25.74	3.75	0.00	101.45	N/A	N/A
2437	67.35	AV	Н	25.74	3.75	0.00	96.84	N/A	N/A
2437	68.97	PK	V	25.74	3.75	0.00	98.46	N/A	N/A
2437	64.97	AV	V	25.74	3.75	0.00	94.46	N/A	N/A
4874	35.57	PK	Н	30.77	5.14	27.42	44.06	74.00	29.94
4874	23.19	AV	Н	30.77	5.14	27.42	31.68	54.00	22.32
7311	31.21	PK	Н	34.35	6.74	25.88	46.42	74.00	27.58
7311	18.77	AV	Н	34.35	6.74	25.88	33.98	54.00	20.02
3190	34.04	PK	Н	27.81	6.26	27.38	40.73	74.00	33.27
3190	21.85	AV	Н	27.81	6.26	27.38	28.54	54.00	25.46
3610	33.59	PK	Н	29.04	4.61	27.28	39.96	74.00	34.04
3610	21.33	AV	Н	29.04	4.61	27.28	27.70	54.00	26.30
				ligh Chanı					
2462	71.32	PK	Н	25.80	3.75	0.00	100.87	N/A	N/A
2462	66.68	AV	Н	25.80	3.75	0.00	96.23	N/A	N/A
2462	68.37	PK	V	25.80	3.75	0.00	97.92	N/A	N/A
2462	64.34	AV	V	25.80	3.75	0.00	93.89	N/A	N/A
2483.5	26.85	PK	Н	25.86	3.67	0.00	56.38	74.00	17.62
2483.5	15.97	AV	Н	25.86	3.67	0.00	45.50	54.00	8.50
4924	33.28	PK	Н	30.90	5.34	27.43	42.09	74.00	31.91
4924	20.67	AV	Н	30.90	5.34	27.43	29.48	54.00	24.52
7386	31.14	PK	Н	34.53	6.83	25.86	46.64	74.00	27.36
7386	19.08	AV	Н	34.53	6.83	25.86	34.58	54.00	19.42
3190	33.24	PK	Н	27.81	6.26	27.38	39.93	74.00	34.07
3190	21.56	AV	Н	27.81	6.26	27.38	28.25	54.00	25.75

Report No.: RDG160608001-00B

FCC Part 15.247 Page 24 of 71

Report No.: RDG160608001-00B

802.11g Mode

T.	Re	eceiver	Rx A	Antenna	Cable	Amplifier	Corrected	T,	
Frequency (MHz)	Reading (dBµV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	loss (dB)	Gain (dB)	Amplitude (dBμV/m)	Limit (dBµV/m)	Margin (dB)
			J	Low Channe	l: 2412 N	ſНz			
2412	69.44	PK	Н	25.67	3.68	0.00	98.79	N/A	N/A
2412	59.97	AV	Н	25.67	3.68	0.00	89.32	N/A	N/A
2412	65.12	PK	V	25.67	3.68	0.00	94.47	N/A	N/A
2412	55.64	AV	V	25.67	3.68	0.00	84.99	N/A	N/A
2390	28.77	PK	Н	25.61	3.63	0.00	58.01	74.00	15.99
2390	14.96	AV	Н	25.61	3.63	0.00	44.20	54.00	9.80
4824	32.39	PK	Н	30.64	5.03	27.41	40.65	74.00	33.35
4824	20.11	AV	Н	30.64	5.03	27.41	28.37	54.00	25.63
7236	30.98	PK	Н	34.17	6.65	25.90	45.90	74.00	28.10
7236	18.35	AV	Н	34.17	6.65	25.90	33.27	54.00	20.73
3190	33.24	PK	Н	27.81	6.26	27.38	39.93	74.00	34.07
3190	21.09	AV	Н	27.81	6.26	27.38	27.78	54.00	26.22
			M	iddle Chann		MHz			
2437	70.17	PK	Н	25.74	3.75	0.00	99.66	N/A	N/A
2437	60.58	AV	Н	25.74	3.75	0.00	90.07	N/A	N/A
2437	65.61	PK	V	25.74	3.75	0.00	95.10	N/A	N/A
2437	55.89	AV	V	25.74	3.75	0.00	85.38	N/A	N/A
4874	32.02	PK	Н	30.77	5.14	27.42	40.51	74.00	33.49
4874	19.79	AV	Н	30.77	5.14	27.42	28.28	54.00	25.72
7311	31.83	PK	Н	34.35	6.74	25.88	47.04	74.00	26.96
7311	19.24	AV	Н	34.35	6.74	25.88	34.45	54.00	19.55
3190	33.77	PK	H	27.81	6.26	27.38	40.46	74.00	33.54
3190	21.75	AV	Н	27.81	6.26	27.38	28.44	54.00	25.56
3610	32.58	PK	Н	29.04	4.61	27.28	38.95	74.00	35.05
3610	20.13	AV	Н	29.04	4.61	27.28	26.50	54.00	27.50
				Iigh Channe					
2462	67.75	PK	Н	25.80	3.75	0.00	97.30	N/A	N/A
2462	57.82	AV	H	25.80	3.75	0.00	87.37	N/A	N/A
2462	63.03	PK	V	25.80	3.75	0.00	92.58	N/A	N/A
2462	52.86	AV	V	25.80	3.75	0.00	82.41	N/A	N/A
2483.5	26.95	PK	Н	25.86	3.67	0.00	56.48	74.00	17.52
2483.5	14.88	AV	Н	25.86	3.67	0.00	44.41	54.00	9.59
4924	31.56	PK	Н	30.90	5.34	27.43	40.37	74.00	33.63
4924	19.33	AV	Н	30.90	5.34	27.43	28.14	54.00	25.86
7386	32.34	PK	Н	34.53	6.83	25.86	47.84	74.00	26.16
7386	19.92	AV	Н	34.53	6.83	25.86	35.42	54.00	18.58
3190	34.22	PK	Н	27.81	6.26	27.38	40.91	74.00	33.09
3190	21.93	AV	Н	27.81	6.26	27.38	28.62	54.00	25.38

FCC Part 15.247 Page 25 of 71

802.11 n ht20 Mode(Per pretest, MIMO mode was the worst and reported below:)

Б	Re	eceiver	Rx A	ntenna	Cable	Amplifier	Corrected	T,	
Frequency (MHz)	Reading (dBµV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	loss (dB)	Gain (dB)	Amplitude (dBμV/m)	Limit (dBµV/m)	Margin (dB)
			L	ow Chann	el: 2412	MHz			
2412	69.99	PK	Н	25.67	3.68	0.00	99.34	N/A	N/A
2412	58.62	AV	Н	25.67	3.68	0.00	87.97	N/A	N/A
2412	67.15	PK	V	25.67	3.68	0.00	96.50	N/A	N/A
2412	55.87	AV	V	25.67	3.68	0.00	85.22	N/A	N/A
2390	26.54	PK	Н	25.61	3.63	0.00	55.78	74.00	18.22
2390	14.12	AV	Н	25.61	3.63	0.00	43.36	54.00	10.64
4824	31.57	PK	Н	30.64	5.03	27.41	39.83	74.00	34.17
4824	19.37	AV	Н	30.64	5.03	27.41	27.63	54.00	26.37
7236	31.33	PK	Н	34.17	6.65	25.90	46.25	74.00	27.75
7236	19.21	AV	Н	34.17	6.65	25.90	34.13	54.00	19.87
3190	34.36	PK	Н	27.81	6.26	27.38	41.05	74.00	32.95
3190	21.89	AV	Н	27.81	6.26	27.38	28.58	54.00	25.42
			Mi	ddle Chan	nel: 2437	MHz			
2437	71.09	PK	Н	25.74	3.75	0.00	100.58	N/A	N/A
2437	58.79	AV	Н	25.74	3.75	0.00	88.28	N/A	N/A
2437	67.77	PK	V	25.74	3.75	0.00	97.26	N/A	N/A
2437	56.01	AV	V	25.74	3.75	0.00	85.50	N/A	N/A
4874	31.55	PK	Н	30.77	5.14	27.42	40.04	74.00	33.96
4874	19.29	AV	Н	30.77	5.14	27.42	27.78	54.00	26.22
7311	31.44	PK	Н	34.35	6.74	25.88	46.65	74.00	27.35
7311	19.34	AV	Н	34.35	6.74	25.88	34.55	54.00	19.45
3190	34.24	PK	Н	27.81	6.26	27.38	40.93	74.00	33.07
3190	21.78	AV	Н	27.81	6.26	27.38	28.47	54.00	25.53
3610	33.56	PK	Н	29.04	4.61	27.28	39.93	74.00	34.07
3610	21.37	AV	Н	29.04	4.61	27.28	27.74	54.00	26.26
			Н	igh Chann	el: 2462	MHz	_		
2462	68.45	PK	Н	25.80	3.75	0.00	98.00	N/A	N/A
2462	55.36	AV	Н	25.80	3.75	0.00	84.91	N/A	N/A
2462	64.71	PK	V	25.80	3.75	0.00	94.26	N/A	N/A
2462	52.26	AV	V	25.80	3.75	0.00	81.81	N/A	N/A
2483.5	27.94	PK	Н	25.86	3.67	0.00	57.47	74.00	16.53
2483.5	14.36	AV	Н	25.86	3.67	0.00	43.89	54.00	10.11
4924	31.51	PK	Н	30.90	5.34	27.43	40.32	74.00	33.68
4924	19.38	AV	Η	30.90	5.34	27.43	28.19	54.00	25.81
7386	31.15	PK	Н	34.53	6.83	25.86	46.65	74.00	27.35
7386	18.93	AV	Н	34.53	6.83	25.86	34.43	54.00	19.57
3190	34.2	PK	Н	27.81	6.26	27.38	40.89	74.00	33.11
3190	21.69	AV	Н	27.81	6.26	27.38	28.38	54.00	25.62

FCC Part 15.247 Page 26 of 71

802.11 n ht40 Mode (Per pretest, MIMO mode was the worst and reported below:)

		ceiver		ntenna	Cable	Amplifier	Corrected	T	3.7
Frequency (MHz)	Reading (dBµV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	loss (dB)	Gain (dB)	Amplitude (dBμV/m)	Limit (dBµV/m)	Margin (dB)
			L	ow Chann	el: 2422	MHz			
2422	67.94	PK	Н	25.70	3.71	0.00	97.35	N/A	N/A
2422	55.75	AV	Н	25.70	3.71	0.00	85.16	N/A	N/A
2422	64.26	PK	V	25.70	3.71	0.00	93.67	N/A	N/A
2422	51.87	AV	V	25.70	3.71	0.00	81.28	N/A	N/A
2390	27.27	PK	Н	25.61	3.63	0.00	56.51	74.00	17.49
2390	14.87	AV	Н	25.61	3.63	0.00	44.11	54.00	9.89
4844	31.69	PK	Н	30.69	4.99	27.42	39.95	74.00	34.05
4844	19.37	AV	Н	30.69	4.99	27.42	27.63	54.00	26.37
7266	31.29	PK	Н	34.24	6.68	25.89	46.32	74.00	27.68
7266	19.13	AV	Н	34.24	6.68	25.89	34.16	54.00	19.84
3190	34.25	PK	Н	27.81	6.26	27.38	40.94	74.00	33.06
3190	21.66	AV	Н	27.81	6.26	27.38	28.35	54.00	25.65
			Mi	ddle Chan	nel: 2437	7 MHz			
2437	67.84	PK	Н	25.74	3.75	0.00	97.33	N/A	N/A
2437	55.34	AV	Н	25.74	3.75	0.00	84.83	N/A	N/A
2437	64.46	PK	V	25.74	3.75	0.00	93.95	N/A	N/A
2437	51.86	AV	V	25.74	3.75	0.00	81.35	N/A	N/A
4874	31.67	PK	Н	30.77	5.14	27.42	40.16	74.00	33.84
4874	19.43	AV	Н	30.77	5.14	27.42	27.92	54.00	26.08
7311	30.99	PK	Н	34.35	6.74	25.88	46.20	74.00	27.80
7311	18.77	AV	Н	34.35	6.74	25.88	33.98	54.00	20.02
3190	34.15	PK	Н	27.81	6.26	27.38	40.84	74.00	33.16
3190	21.77	AV	Н	27.81	6.26	27.38	28.46	54.00	25.54
3610	33.29	PK	Н	29.04	4.61	27.28	39.66	74.00	34.34
3610	21.17	AV	Н	29.04	4.61	27.28	27.54	54.00	26.46
			Н	igh Chann	el: 2452	MHz			
2452	67.51	PK	Н	25.78	3.78	0.00	97.07	N/A	N/A
2452	54.68	AV	H	25.78	3.78	0.00	84.24	N/A	N/A
2452	64.31	PK	V	25.78	3.78	0.00	93.87	N/A	N/A
2452	51.78	AV	V	25.78	3.78	0.00	81.34	N/A	N/A
2483.5	28.46	PK	Н	25.86	3.67	0.00	57.99	74.00	16.01
2483.5	14.96	AV	Н	25.86	3.67	0.00	44.49	54.00	9.51
4904	31.32	PK	Н	30.85	5.31	27.43	40.05	74.00	33.95
4904	19.16	AV	ρH	30.85	5.31	27.43	27.89	54.00	26.11
7356	30.54	PK	Н	34.45	6.79	25.87	45.91	74.00	28.09
7356	18.31	AV	Н	34.45	6.79	25.87	33.68	54.00	20.32
3190	33.69	PK	Н	27.81	6.26	27.38	40.38	74.00	33.62
3190	21.38	AV	Н	27.81	6.26	27.38	28.07	54.00	25.93

FCC Part 15.247 Page 27 of 71

BLE Mode

E	Re	eceiver	Rx A	ntenna	Cable	Amplifier	Corrected	T : '4	М
Frequency	Reading	Detector	Polar	Factor	loss	Gain	Amplitude	Limit	Margin
(MHz)	(dBµV)	(PK/QP/AV)	(H/V)	(dB)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
			L	ow Chann	el: 2402	MHz			
2402	64.33	PK	Н	25.65	3.66	0.00	93.64	N/A	N/A
2402	59.63	AV	Н	25.65	3.66	0.00	88.94	N/A	N/A
2402	62.05	PK	V	25.65	3.66	0.00	91.36	N/A	N/A
2402	57.89	AV	V	25.65	3.66	0.00	87.20	N/A	N/A
2390	26.86	PK	Н	25.61	3.63	0.00	56.10	74.00	17.90
2390	14.37	AV	Н	25.61	3.63	0.00	43.61	54.00	10.39
4804	30.77	PK	Н	30.59	5.06	27.41	39.01	74.00	34.99
4804	18.69	AV	Н	30.59	5.06	27.41	26.93	54.00	27.07
7206	31.44	PK	Н	34.09	6.61	25.91	46.23	74.00	27.77
7206	19.1	AV	Н	34.09	6.61	25.91	33.89	54.00	20.11
3130	33.64	PK	Н	27.62	6.92	27.43	40.75	74.00	33.25
3130	21.28	AV	Н	27.62	6.92	27.43	28.39	54.00	25.61
				ddle Chan					
2440	64.25	PK	Н	25.74	3.76	0.00	93.75	N/A	N/A
2440	59.5	AV	Н	25.74	3.76	0.00	89.00	N/A	N/A
2440	62.24	PK	V	25.74	3.76	0.00	91.74	N/A	N/A
2440	58.01	AV	V	25.74	3.76	0.00	87.51	N/A	N/A
4880	31.24	PK	Н	30.79	5.18	27.42	39.79	74.00	34.21
4880	19.01	AV	Н	30.79	5.18	27.42	27.56	54.00	26.44
7320	31.76	PK	Н	34.37	6.75	25.88	47.00	74.00	27.00
7320	19.48	AV	Н	34.37	6.75	25.88	34.72	54.00	19.28
3130	33.88	PK	Н	27.62	6.92	27.43	40.99	74.00	33.01
3130	21.68	AV	Н	27.62	6.92	27.43	28.79	54.00	25.21
3775	32.58	PK	Н	29.41	4.60	27.37	39.22	74.00	34.78
3775	20.09	AV	Н	29.41	4.60	27.37	26.73	54.00	27.27
				igh Chann					
2480	63.94	PK	Н	25.85	3.68	0.00	93.47	N/A	N/A
2480	59.17	AV	Н	25.85	3.68	0.00	88.70	N/A	N/A
2480	62.18	PK	V	25.85	3.68	0.00	91.71	N/A	N/A
2480	57.92	AV	V	25.85	3.68	0.00	87.45	N/A	N/A
2483.5	27.5	PK	Н	25.86	3.67	0.00	57.03	74.00	16.97
2483.5	14.26	AV	Н	25.86	3.67	0.00	43.79	54.00	10.21
4960	30.99	PK	Н	31.00	5.34	27.43	39.90	74.00	34.10
4960	18.83	AV	Н	31.00	5.34	27.43	27.74	54.00	26.26
7440	31.6	PK	Н	34.66	6.89	25.97	47.18	74.00	26.82
7440	19.38	AV	Н	34.66	6.89	25.97	34.96	54.00	19.04
3130	33.82	PK	Н	27.62	6.92	27.43	40.93	74.00	33.07
3130	21.51	AV	Н	27.62	6.92	27.43	28.62	54.00	25.38

FCC Part 15.247 Page 28 of 71

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.

Report No.: RDG160608001-00B

Test Procedure

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



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2015-11-23	2016-11-22
R&S	Spectrum Analyzer	FSEM	DE23437	2015-11-23	2016-11-22
N/A	Coaxial Cable	0.1m	N/A	2016-05-06	2017-05-06
E-Microwave	DC Blocking	EMDCB-00036	0E01201047	2016-05-06	2017-05-06

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

Test Data

Environmental Conditions

Temperature:	26.2 – 28.6 °C
Relative Humidity:	35 - 58 %
ATM Pressure:	99.7-100.4 kPa

^{*} The testing was performed by Costa Dong from 2016-06-10 to 2016-07-06.

FCC Part 15.247 Page 29 of 71

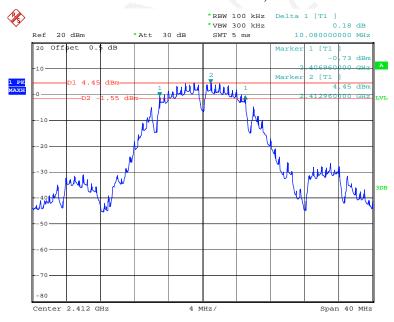
Test Mode: Transmitting

Test Result: Compliant. Please refer to the following table and plots.

Mode	Channel	Frequency		6dB Emission Bandwidth (MHz)		
		(MHz)	Chain 0	Chain 1	(MHz)	
	Low	2412	10.08	10.08	0.5	
802.11 b	Middle	2437	10.08	10.08	0.5	
	High	2462	10.08	10.08	0.5	
	Low	2412	15.36	15.12	0.5	
802.11 g	Middle	2437	15.20	15.20	0.5	
	High	2462	15.60	15.28	0.5	
	Low	2412	15.12	15.28	0.5	
802.11 n20	Middle	2437	15.20	15.28	0.5	
	High	2462	15.20	15.20	0.5	
	Low	2422	35.36	35.36	0.5	
802.11 n40	Middle	2437	35.36	35.52	0.5	
	High	2452	35.36	35.36	0.5	
	Low	2402	0.71	1	0.5	
BLE	Middle	2440	0.71	1	0.5	
	High	2480	0.72	1	0.5	

Report No.: RDG160608001-00B

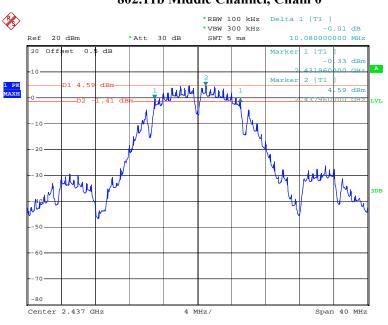
802.11b Low Channel, Chain 0



Date: 10.JUN.2016 15:23:41

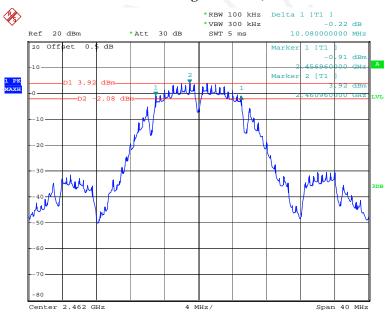
FCC Part 15.247 Page 30 of 71

802.11b Middle Channel, Chain 0



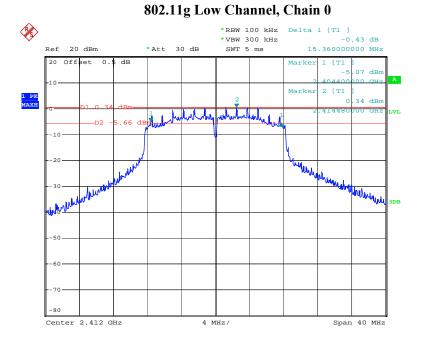
Date: 10.JUN.2016 15:26:58

802.11b High Channel, Chain 0



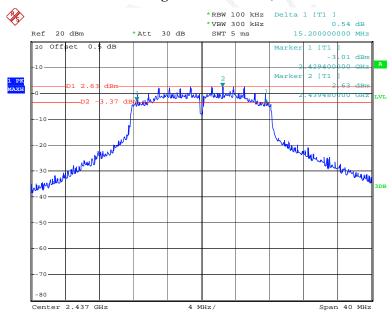
Date: 10.JUN.2016 15:29:26

FCC Part 15.247 Page 31 of 71



Date: 10.JUN.2016 16:26:31

802.11g Middle Channel, Chain 0

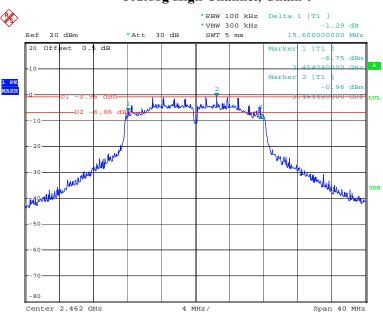


Date: 10.JUN.2016 16:30:28

FCC Part 15.247 Page 32 of 71

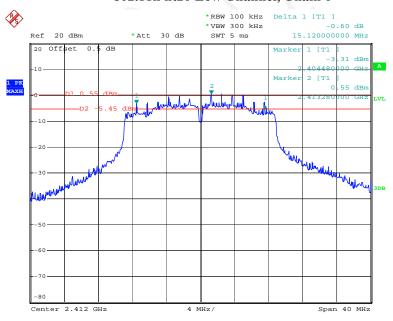
802.11g High Channel, Chain 0

Report No.: RDG160608001-00B



Date: 10.JUN.2016 16:40:19

802.11n ht20 Low Channel, Chain 0

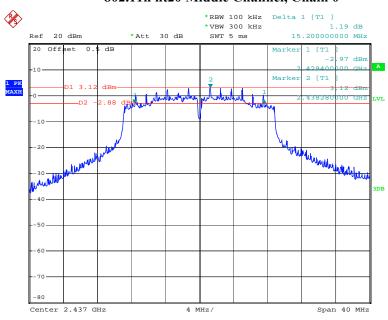


Date: 10.JUN.2016 16:53:39

FCC Part 15.247 Page 33 of 71

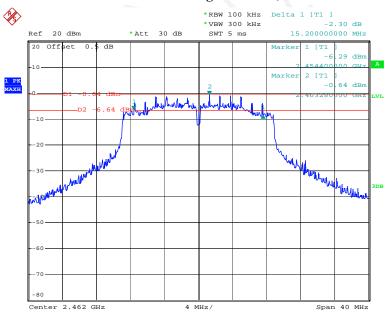
802.11n ht20 Middle Channel, Chain 0

Report No.: RDG160608001-00B



Date: 10.JUN.2016 16:56:49

802.11n ht20 High Channel, Chain 0

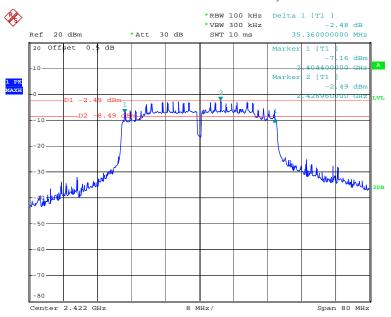


Date: 10.JUN.2016 16:59:19

FCC Part 15.247 Page 34 of 71

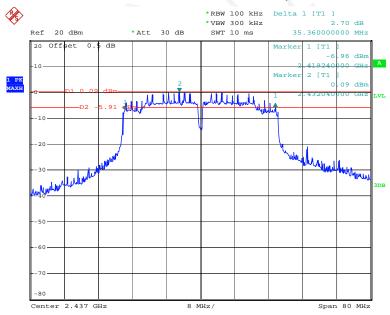
802.11n ht40 Low Channel, Chain 0

Report No.: RDG160608001-00B



Date: 10.JUN.2016 17:02:33

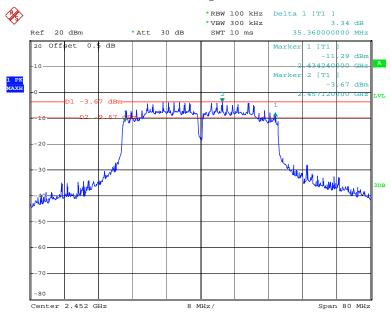
802.11n ht40 Middle Channel, Chain 0



Date: 10.JUN.2016 17:12:50

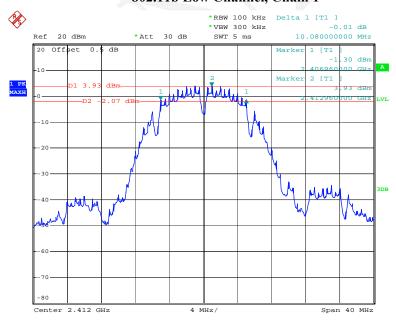
FCC Part 15.247 Page 35 of 71

802.11n ht40 High Channel, Chain 0



Date: 10.JUN.2016 17:16:07

802.11b Low Channel, Chain 1

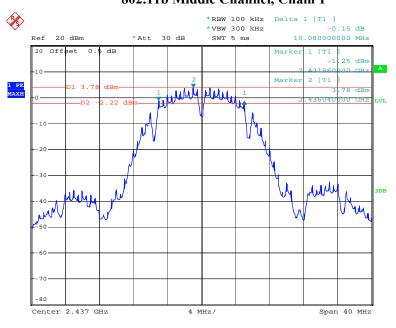


Date: 10.JUN.2016 17:52:33

FCC Part 15.247 Page 36 of 71

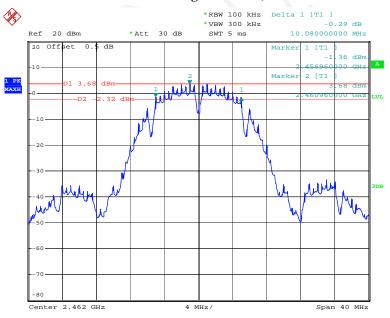
802.11b Middle Channel, Chain 1

Report No.: RDG160608001-00B



Date: 10.JUN.2016 17:55:32

802.11b High Channel, Chain 1

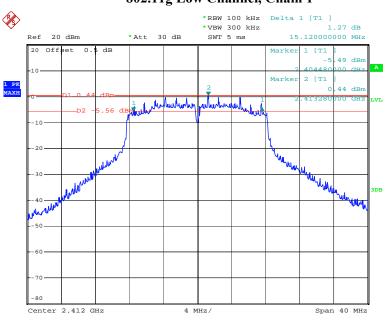


Date: 10.JUN.2016 20:16:20

FCC Part 15.247 Page 37 of 71

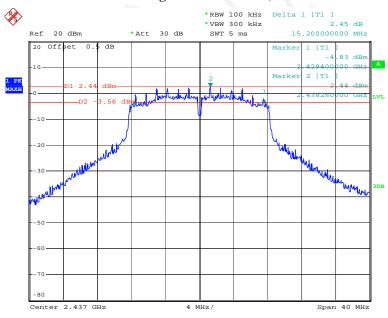
802.11g Low Channel, Chain 1

Report No.: RDG160608001-00B



Date: 10.JUN.2016 20:19:40

802.11g Middle Channel, Chain 1

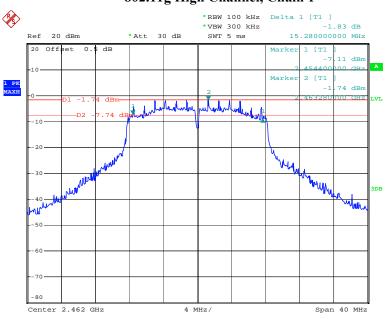


Date: 10.JUN.2016 20:33:24

FCC Part 15.247 Page 38 of 71

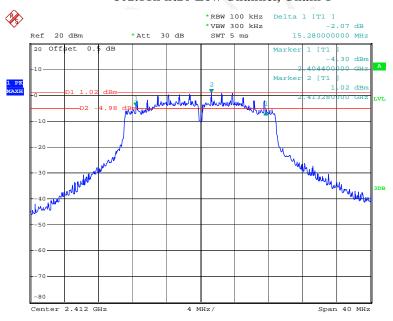
802.11g High Channel, Chain 1

Report No.: RDG160608001-00B



Date: 10.JUN.2016 20:36:10

802.11n ht20 Low Channel, Chain 1

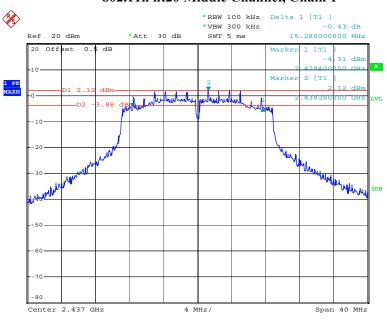


Date: 10.JUN.2016 20:39:28

FCC Part 15.247 Page 39 of 71

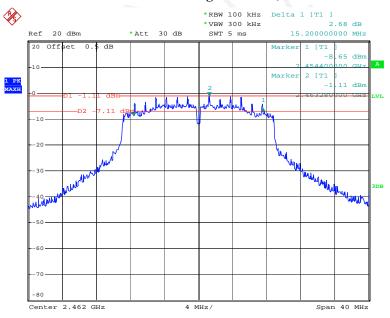
802.11n ht20 Middle Channel, Chain 1

Report No.: RDG160608001-00B



Date: 10.JUN.2016 20:43:19

802.11n ht20 High Channel, Chain 1

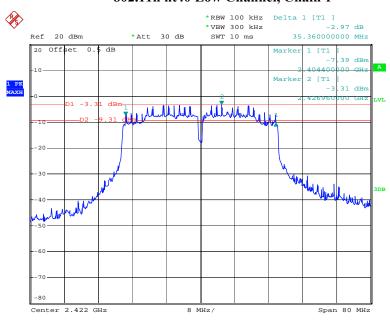


Date: 10.JUN.2016 20:45:55

FCC Part 15.247 Page 40 of 71

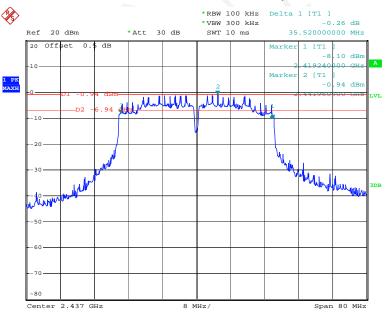
802.11n ht40 Low Channel, Chain 1

Report No.: RDG160608001-00B



Date: 10.JUN.2016 20:51:34

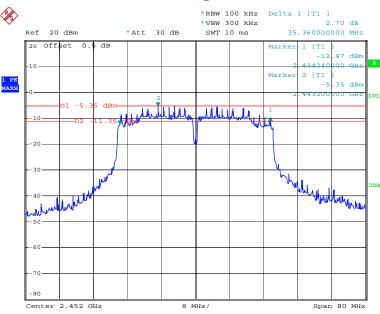
802.11n ht40 Middle Channel, Chain 1



Date: 10.JUN.2016 20:55:00

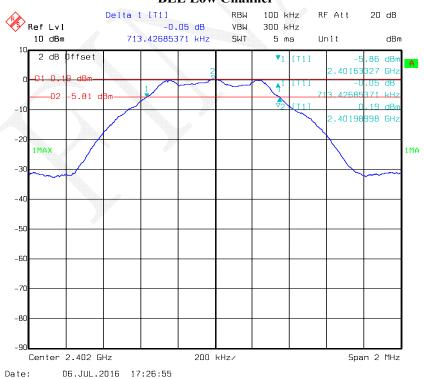
FCC Part 15.247 Page 41 of 71

802.11n ht40 High Channel, Chain 1



Date: 10.JUN.2016 20:57:55

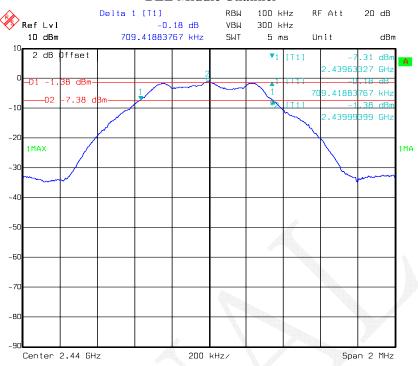
BLE Low Channel



FCC Part 15.247 Page 42 of 71

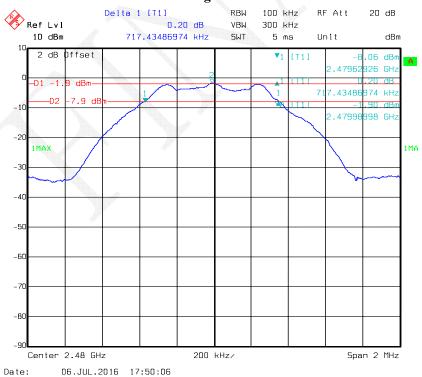
BLE Middle Channel

Report No.: RDG160608001-00B



Date: 06.JUL.2016 17:45:18

BLE High Channel



FCC Part 15.247 Page 43 of 71

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.

Report No.: RDG160608001-00B

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 test equipment.
- 3. Add a correction factor to the display.



Test Equipment List and Details

Manufacturer	ufacturer Description		Serial Number	Calibration Date	Calibration Due Date
Agilent	Wideband Power Sensor	N1921A	MY54210016	2015-11-03	2016-11-03
Agilent	Wideband Power Sensor	N1921A	MY54170013	2015-11-03	2016-11-03
Agilent	P-Series Power Meter	N1912A	MY5000448	2015-11-03	2016-11-03
N/A	Coaxial Cable	0.1m	N/A	2016-05-06	2017-05-06
E-Microwave	DC Blocking	EMDCB- 00036	0E01201047	2016-05-06	2017-05-06

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

Test Data

Environmental Conditions

Temperature:	26.2 – 28.6 °C
Relative Humidity:	35 -58 %
ATM Pressure:	99.7 – 100.4 kPa

^{*} The testing was performed by Costa Dong from 2016-06-10 to 2016-07-06.

Test Mode: Transmitting

Test Result: Compliant. Please refer to the following table.

FCC Part 15.247 Page 44 of 71

WLAN, SISO Mode:

Mode	Channel Frequency (MHz)		Conducted Peak (dBm	Limit (dBm)	
		(MIIIZ)	Chain 0	Chain 1	(ubiii)
	Low	2412	17.23	16.84	30
802.11 b	Middle	2437	17.36	16.56	30
	High	2462	17.13	16.68	30
	Low	2412	18.34	18.69	30
802.11 g	Middle	2437	20.83	19.85	30
	High	2462	16.86	16.75	30
	Low	2412	18.07	18.63	30
802.11 n20	Middle	2437	20.53	20.09	30
	High	2462	17.2	16.48	30
	Low	2422	18.98	18.7	30
802.11 n40	Middle	2437	21.64	21.02	30
	High	2452	17.94	16.23	30

Mode	Channel Frequency (MHz)		Conducted Avera	Limit (dBm)	
		(WIIIZ)	Chain 0	Chain 1	(ubiii)
	Low	2412	16.32	15.96	30
802.11 b	Middle	2437	16.46	15.69	30
	High	2462	16.24	15.84	30
	Low	2412	15.08	15.4	30
802.11 g	Middle	2437	17.56	16.58	30
	High	2462	13.53	13.36	30
	Low	2412	14.83	15.39	30
802.11 n20	Middle	2437	17.24	16.9	30
	High	2462	14.04	13.19	30
802.11 n40	Low	2422	12.52	12.2	30
	Middle	2437	15.14	14.54	30
	High	2452	11.47	9.78	30

FCC Part 15.247 Page 45 of 71

WLAN, MIMO Mode:

Mode	Channel Frequency (MHz)		Conduct	Limit (dBm)		
		(MHZ)	Chain 0	Chain 1	Total	(ubiii)
	Low	2412	16.62	16.82	19.73	30
802.11 n20	Middle	2437	18.38	19.25	21.85	30
	High	2462	16.88	16.77	19.84	30
802.11 n40	Low	2422	15.45	14.97	18.23	30
	Middle	2437	19.12	18.32	21.75	30
	High	2452	15.73	14.78	18.29	30

Report No.: RDG160608001-00B

Mode	Channel Frequency (MHz)		Conducted	Limit		
		(MITIZ)	Chain 0	Chain 1	Total	(dBm)
	Low	2412	13.37	13.62	16.51	30
802.11 n20	Middle	2437	15.33	16.24	18.82	30
	High	2462	13.74	12.85	16.33	30
	Low	2422	9.1	8.56	11.85	30
802.11 n40	Middle	2437	12.68	11.92	15.33	30
	High	2452	9.26	8.37	11.85	30

Bluetooth LE mode:

Test Channel		Frequency	equency Conducted Peak Output Power		Result
		(MHz)	(dBm)	(dBm)	
	Low	2402	0.29	30	PASS
BLE	Middle	2440	-1.14	30	PASS
, and the second	High	2480	-1.79	30	PASS

FCC Part 15.247 Page 46 of 71

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

Report No.: RDG160608001-00B

Applicable Standard

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

Test Procedure

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

Test Equipment List and Details

	40 1				
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2015-11-23	2016-11-22
R&S	Spectrum Analyzer	FSEM	DE23437	2015-11-23	2016-11-22
N/A	Coaxial Cable	0.1m	N/A	2016-05-06	2017-05-06
E-Microwave	DC Blocking	EMDCB-00036	0E01201047	2016-05-06	2017-05-06

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

Test Data

Environmental Conditions

Temperature:	25.3-25.8°C
Relative Humidity:	53-57 %
ATM Pressure:	99100 kPa

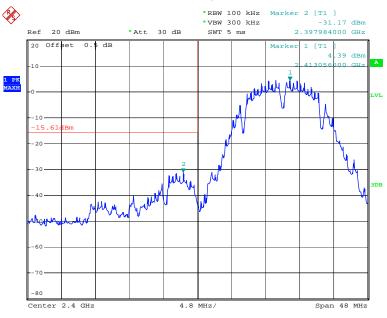
^{*} The testing was performed by Costa Dong from 2015-06-19 to 2015-06-26.

Test mode: Transmitting

FCC Part 15.247 Page 47 of 71

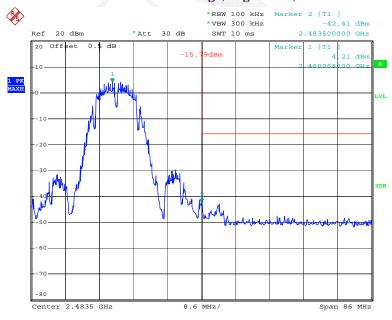
Test Result: Compliant. Please refer to following plots.

802.11b: Band Edge, Left Side, Chain 0



Date: 10.JUN.2016 15:26:09

802.11b: Band Edge, Right Side, Chain 0

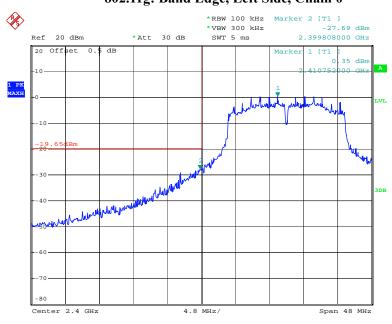


Date: 10.JUN.2016 15:31:24

FCC Part 15.247 Page 48 of 71

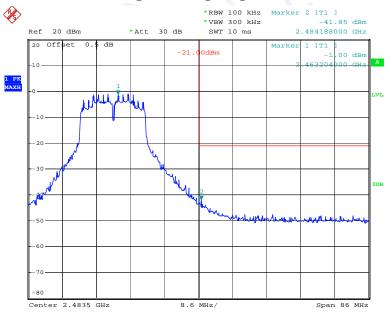
802.11g: Band Edge, Left Side, Chain 0

Report No.: RDG160608001-00B



Date: 10.JUN.2016 16:28:41

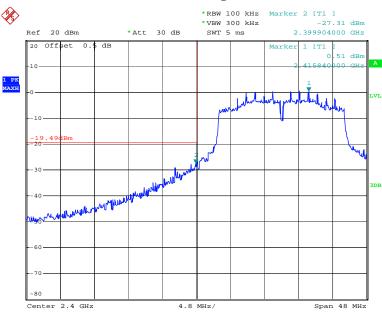
802.11g: Band Edge, Right Side, Chain 0



Date: 10.JUN.2016 16:42:43

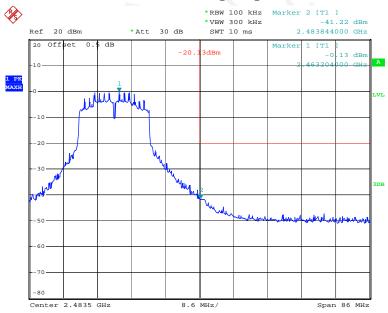
FCC Part 15.247 Page 49 of 71

802.11n ht20 Band Edge, Left Side, Chain 0



Date: 10.JUN.2016 16:56:07

802.11n ht20 Band Edge, Right Side, Chain 0

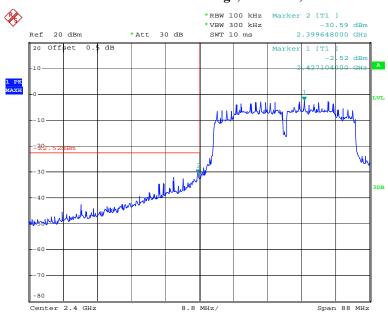


Date: 10.JUN.2016 17:01:41

FCC Part 15.247 Page 50 of 71

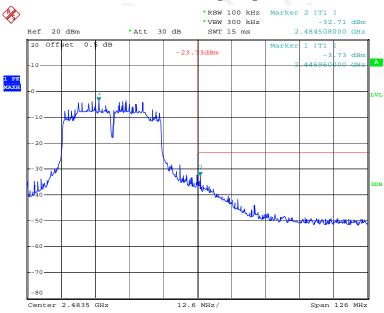
802.11n ht40 Band Edge, Left Side, Chain 0

Report No.: RDG160608001-00B



Date: 10.JUN.2016 17:04:56

802.11n ht40 Band Edge, Right Side, Chain 0

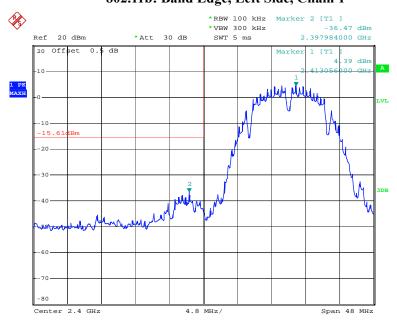


Date: 10.JUN.2016 17:18:24

FCC Part 15.247 Page 51 of 71

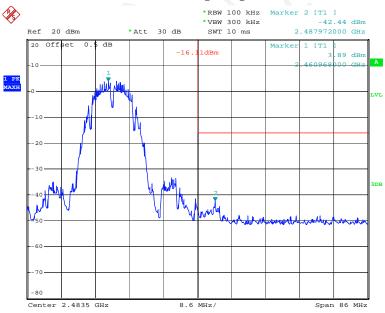
802.11b: Band Edge, Left Side, Chain 1

Report No.: RDG160608001-00B



Date: 10.JUN.2016 17:54:35

802.11b: Band Edge, Right Side, Chain 1

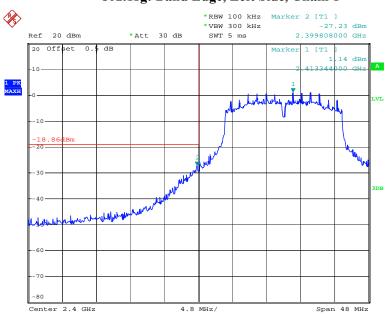


Date: 10.JUN.2016 20:18:21

FCC Part 15.247 Page 52 of 71

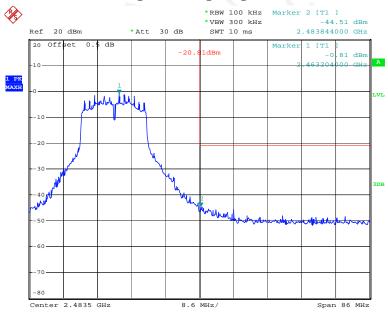
802.11g: Band Edge, Left Side, Chain 1

Report No.: RDG160608001-00B



Date: 10.JUN.2016 20:21:54

802.11g: Band Edge, Right Side, Chain 1

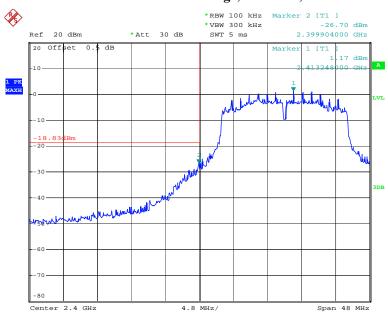


Date: 10.JUN.2016 20:38:22

FCC Part 15.247 Page 53 of 71

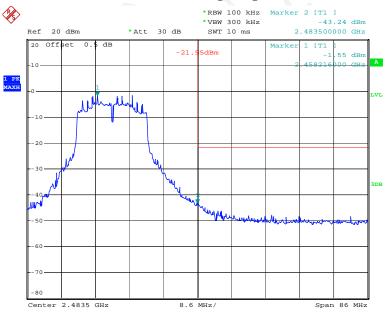
802.11n ht20 Band Edge, Left Side, Chain 1

Report No.: RDG160608001-00B



Date: 10.JUN.2016 20:41:45

802.11n ht20 Band Edge, Right Side, Chain 1

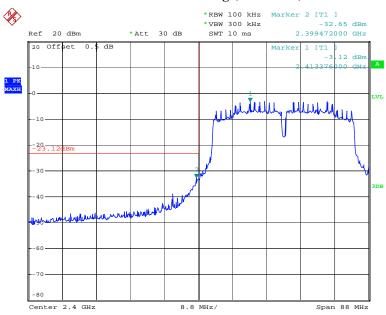


Date: 10.JUN.2016 20:48:01

FCC Part 15.247 Page 54 of 71

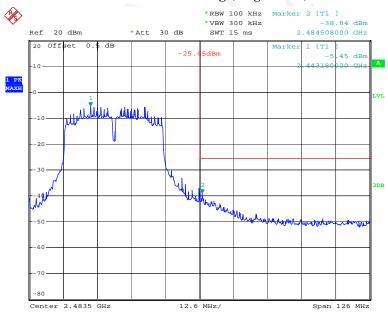
802.11n ht40 Band Edge, Left Side, Chain 1

Report No.: RDG160608001-00B



Date: 10.JUN.2016 20:54:11

802.11n ht40 Band Edge, Right Side, Chain 1

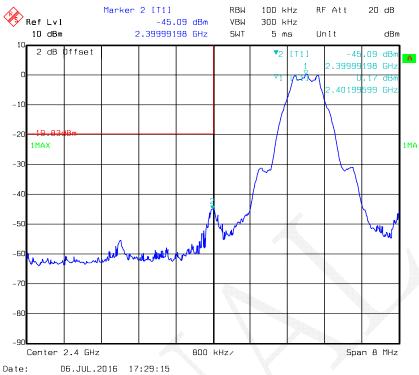


Date: 10.JUN.2016 21:00:16

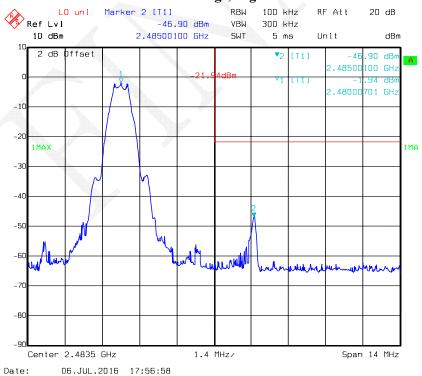
FCC Part 15.247 Page 55 of 71

BLE Band Edge, Left Side

Report No.: RDG160608001-00B



BLE Band Edge, Right Side



FCC Part 15.247 Page 56 of 71

FCC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

Report No.: RDG160608001-00B

Test Procedure

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to: $3 \text{ kHz} \le \text{RBW} \le 100 \text{ kHz}$.
- d) Set the VBW $\geq 3 \times RBW$.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) 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
R&S	Spectrum Analyzer	FSP 38	100478	2015-11-23	2016-11-22
R&S	Spectrum Analyzer	FSEM	DE23437	2015-11-23	2016-11-22
N/A	Coaxial Cable	0.1m	N/A	2016-05-06	2017-05-06
E-Microwave	DC Blocking	EMDCB- 00036	0E01201047	2016-05-06	2017-05-06

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

Test Data

Environmental Conditions

Temperature:	26.2 – 28.6 °C
Relative Humidity:	35 - 58 %
ATM Pressure:	99.7-100.4 kPa

^{*} The testing was performed by Costa Dong from 2016-06-10 to 2016-07-06.

FCC Part 15.247 Page 57 of 71

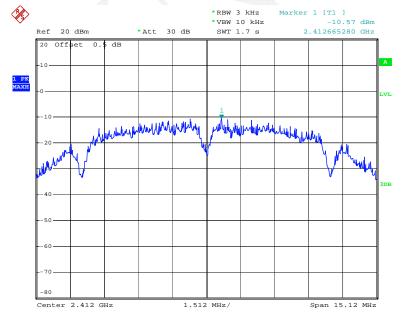
Test Mode: Transmitting

Note: for 802.11n mode, per output power test, the SISO mode was the worst at each antenna chain, so only SISO mode was test for this item, and used to evaluate MIMO mode compliance.

Test Result: Compliant. Please refer to the following table and plots

Mode	Channel	Frequency	Power Spectral Density (dBm/3kHz)			Limit
		(MHz)	Chain 0	Chain 1	Total	(dBm/3kHz)
	Low	2412	-10.57	-10.75	/	8
802.11 b	Middle	2437	-10.88	-11.35	/	8
	High	2462	-10.48	-11.26	/	8
	Low	2412	-13.82	-13.89	/	8
802.11 g	Middle	2437	-11.56	-12.39	/	8
	High	2462	-15.28	-15.93	/	8
	Low	2412	-14.9	-12.97	-10.82	8
802.11 n20	Middle	2437	-12.32	-12.54	-9.42	8
	High	2462	-15.27	-16.36	-12.77	8
	Low	2422	-16.66	-17.95	-14.25	8
802.11 n40	Middle	2437	-14.89	-14.83	-11.85	8
	High	2452	-18.06	-20.54	-16.12	8
BLE	Low	2402	-15.26		1	8
	Middle	2440	-16.86	1	1	8
	High	2480	-17.34	/	/	8

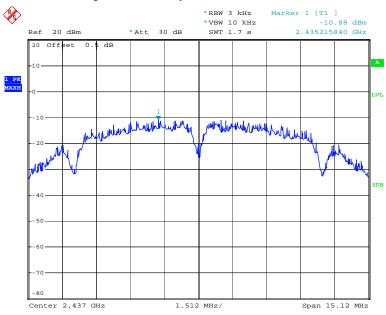
Power Spectral Density, 802.11b Low Channel, Chain 0



Date: 10.JUN.2016 15:24:56

FCC Part 15.247 Page 58 of 71

Power Spectral Density, 802.11b Middle Channel, Chain 0



Date: 10.JUN.2016 15:28:15

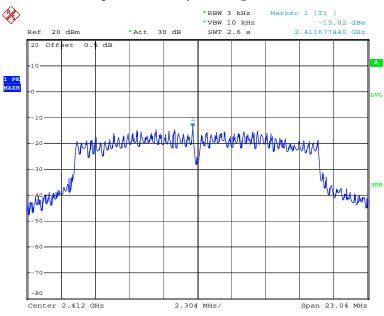
Power Spectral Density, 802.11b High Channel, Chain 0



Date: 10.JUN.2016 15:30:44

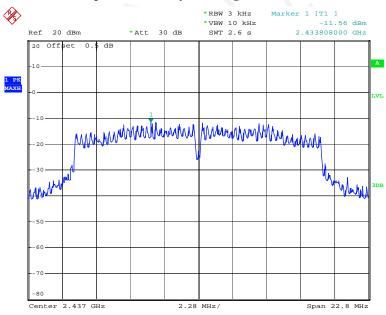
FCC Part 15.247 Page 59 of 71

Power Spectral Density, 802.11g Low Channel, Chain 0



Date: 10.JUN.2016 16:27:55

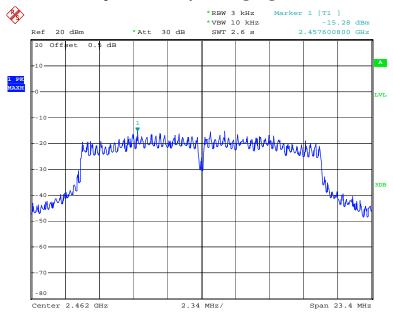
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Date: 10.JUN.2016 16:32:00

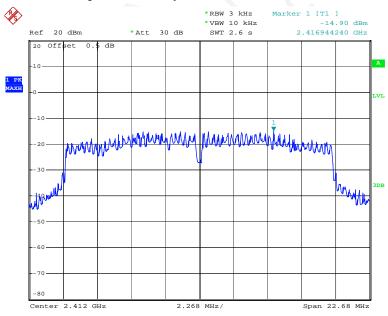
FCC Part 15.247 Page 60 of 71

Power Spectral Density, 802.11g High Channel, Chain 0



Date: 10.JUN.2016 16:41:47

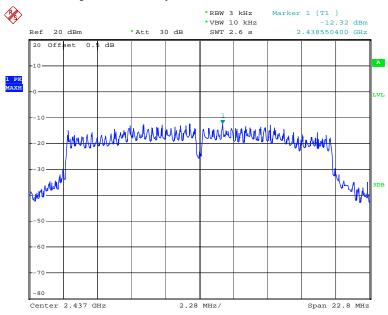
Power Spectral Density, 802.11n ht20 Low Channel, Chain 0



Date: 10.JUN.2016 16:55:14

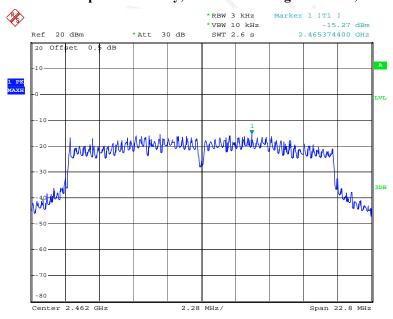
FCC Part 15.247 Page 61 of 71

Power Spectral Density, 802.11n ht20 Middle Channel, Chain 0



Date: 10.JUN.2016 16:58:15

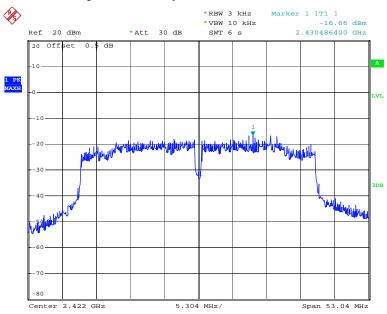
Power Spectral Density, 802.11n ht20 High Channel, Chain 0



Date: 10.JUN.2016 17:00:52

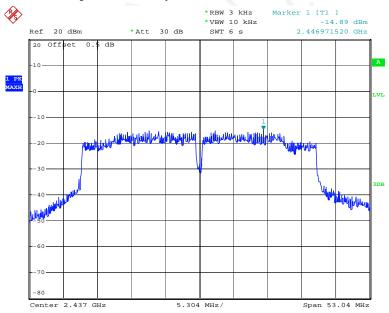
FCC Part 15.247 Page 62 of 71

Power Spectral Density, 802.11n ht40 Low Channel, Chain 0



Date: 10.JUN.2016 17:04:13

Power Spectral Density, 802.11n ht40 Middle Channel, Chain 0

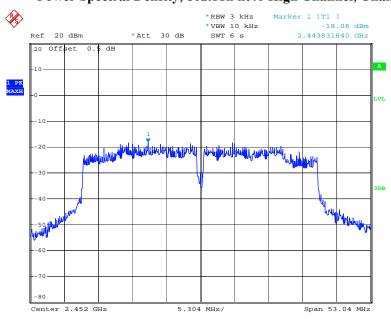


Date: 10.JUN.2016 17:14:42

FCC Part 15.247 Page 63 of 71

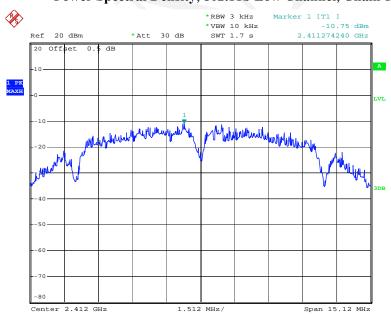
Power Spectral Density, 802.11n ht40 High Channel, Chain 0

Report No.: RDG160608001-00B



Date: 10.JUN.2016 17:17:45

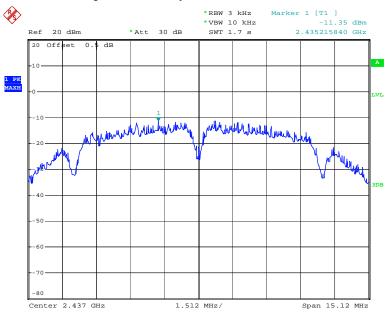
Power Spectral Density, 802.11b Low Channel, Chain 1



Date: 10.JUN.2016 17:53:51

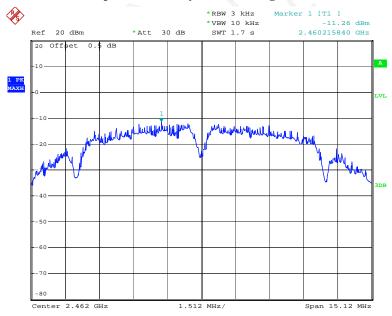
FCC Part 15.247 Page 64 of 71

Power Spectral Density, 802.11b Middle Channel, Chain 1



Date: 10.JUN.2016 17:56:51

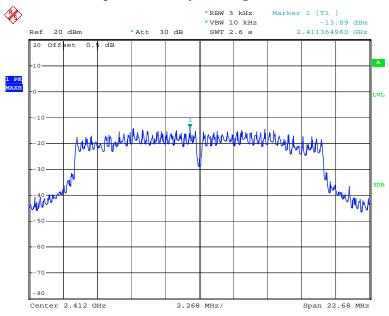
Power Spectral Density, 802.11b High Channel, Chain 1



Date: 10.JUN.2016 20:17:41

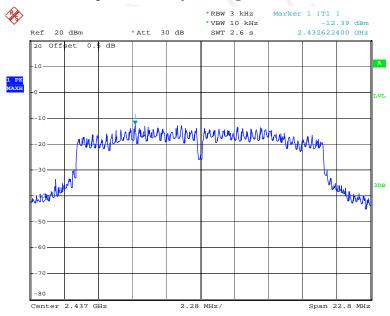
FCC Part 15.247 Page 65 of 71

Power Spectral Density, 802.11g Low Channel, Chain 1



Date: 10.JUN.2016 20:21:08

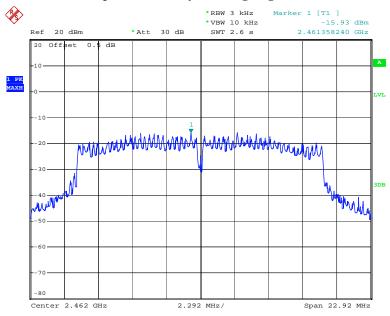
Power Spectral Density, 802.11g Middle Channel, Chain 1



Date: 10.JUN.2016 20:34:55

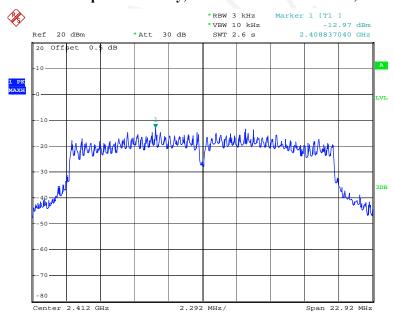
FCC Part 15.247 Page 66 of 71

Power Spectral Density, 802.11g High Channel, Chain 1



Date: 10.JUN.2016 20:37:43

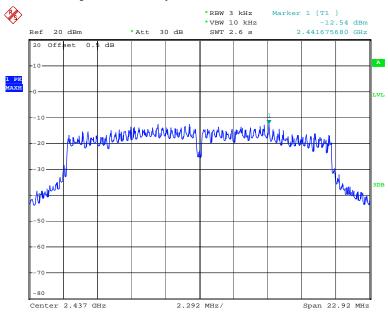
Power Spectral Density, 802.11n ht20 Low Channel, Chain 1



Date: 10.JUN.2016 20:40:54

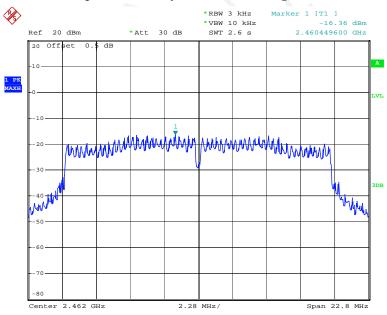
FCC Part 15.247 Page 67 of 71

Power Spectral Density, 802.11n ht20 Middle Channel, Chain 1



Date: 10.JUN.2016 20:44:51

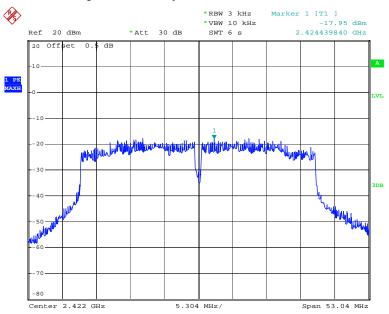
Power Spectral Density, 802.11n ht20 High Channel, Chain 1



Date: 10.JUN.2016 20:47:24

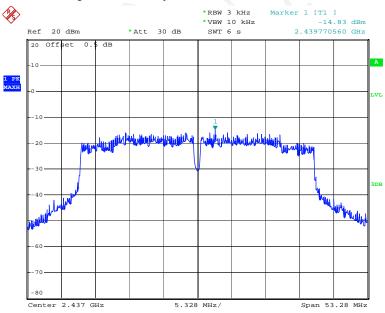
FCC Part 15.247 Page 68 of 71

Power Spectral Density, 802.11n ht40 Low Channel, Chain 1



Date: 10.JUN.2016 20:53:26

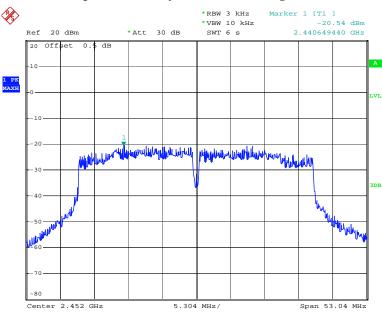
Power Spectral Density, 802.11n ht40 Middle Channel, Chain 1



Date: 10.JUN.2016 20:56:42

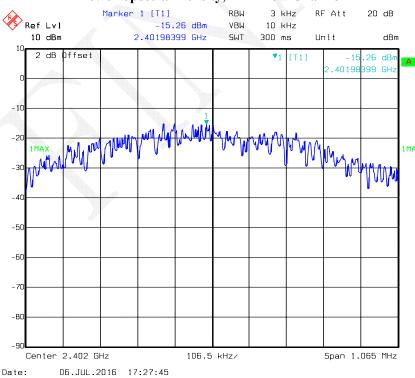
FCC Part 15.247 Page 69 of 71

Power Spectral Density, 802.11n ht40 High Channel, Chain 1



Date: 10.JUN.2016 20:59:35

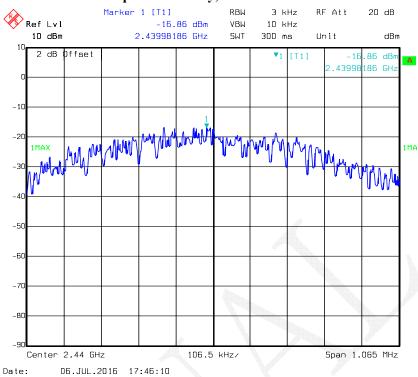
Power Spectral Density, BLE Low Channel



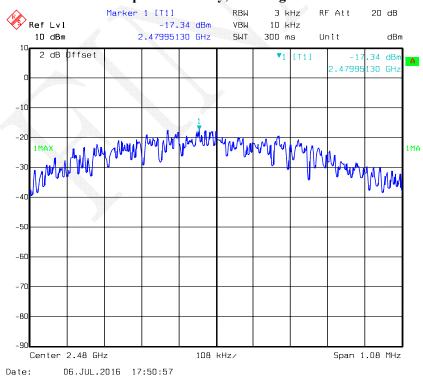
FCC Part 15.247 Page 70 of 71

Power Spectral Density, BLE Middle Channel

Report No.: RDG160608001-00B



Power Spectral Density, BLE High Channel



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

FCC Part 15.247 Page 71 of 71