

FCC PART 15.247 TEST REPORT

For

AMGOO TELECOM (Shenzhen) CO., LTD

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FCC ID: UOSAM403

Report Type: **Product Type:** Original Report Smart Phone Sewer GW Test Engineer: Sewen Guo **Report Number:** RSZ141202001-00D **Report Date:** 2014-12-12 Jimmy Xiao Jimmy xiao Reviewed By: RF Engineer **Prepared By:** Bay Area Compliance Laboratories Corp. (Shenzhen) 6/F, the 3rd Phase of WanLi Industrial Building ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China Tel: +86-755-33320018 Fax: +86-755-33320008 www.baclcorp.com.cn

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

TABLE OF CONTENTS

GENERAL INFORMATION	4
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	4
Objective	
RELATED SUBMITTAL(S)/GRANT(S)	
TEST METHODOLOGY TEST FACILITY	
SYSTEM TEST CONFIGURATION	
DESCRIPTION OF TEST CONFIGURATION	
EQUIPMENT MODIFICATIONSEUT EXERCISE SOFTWARE	
EXTERNAL I/O CABLE	
BLOCK DIAGRAM OF TEST SETUP	7
SUMMARY OF TEST RESULTS	
FCC§15.247 (i), §1.1307 (b) (1) & §2.1093 – RF EXPOSURE	9
APPLICABLE STANDARD	
FCC §15.203 - ANTENNA REQUIREMENT	10
APPLICABLE STANDARD	10
ANTENNA CONNECTOR CONSTRUCTION	10
FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS	11
APPLICABLE STANDARD	
MEASUREMENT UNCERTAINTY	
EUT SETUP	
EMI TEST RECEIVER SETUP TEST PROCEDURE	
TEST FROCEDURE TEST EQUIPMENT LIST AND DETAILS.	
CORRECTED FACTOR & MARGIN CALCULATION	
TEST RESULTS SUMMARY	13
TEST DATA	13
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS	16
APPLICABLE STANDARD	
MEASUREMENT UNCERTAINTY	
EUT SETUPEMI TEST RECEIVER & SPECTRUM ANALYZER SETUP	
TEST PROCEDURE	
TEST FROEEBORE TEST EQUIPMENT LIST AND DETAILS.	
CORRECTED AMPLITUDE & MARGIN CALCULATION	
Test Results Summary	
TEST DATA	19
FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH	
APPLICABLE STANDARD	
TEST PROCEDURE	25
TEST EQUIPMENT LIST AND DETAILS	
FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER	32

APPLICABLE STANDARD	32
TEST PROCEDURE	32
TEST EQUIPMENT LIST AND DETAILS	
FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE	34
APPLICABLE STANDARD	34
TEST PROCEDURE	34
TEST EQUIPMENT LIST AND DETAILS	34
TEST DATA	34
FCC §15.247(e) - POWER SPECTRAL DENSITY	39
APPLICABLE STANDARD	
TEST PROCEDURE	39
TEST EQUIPMENT LIST AND DETAILS.	39
TEST DATA	30

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *AMGOO TELECOM* (*Shenzhen*) *CO.,LTD*'s product, model number: *AM403* (*FCC ID:UOSAM403*) or the "EUT" in this report was a *Smart Phone*, which was measured approximately: 123 mm (L) x 58 mm (W) x 10 mm (H), rated with input voltage: DC 3.7 V rechargeable Li-ion battery or DC 5.0 V from adapter.

Report No.: RSZ141202001-00D

Adapter Information:

Model: CH26

Input: AC100-240V, 50/60Hz, 0.15A

Output: DC 5.0V, 500mA

*All measurement and test data in this report was gathered from production sample serial number: 1412020 (Assigned by Shenzhen BACL). The EUT supplied by the applicant was received on 2014-12-02

Objective

This report is prepared on behalf of *AMGOO TELECOM* (*Shenzhen*) *CO.*, *LTD* 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 (BT3.0) and Part 22H/24E PCE submissions with FCC ID: *UOSAM403*.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2009, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

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 5.91 dB for 30MHz-1GHz.and 4.92 dB for above 1GHz, 1.95dB for conducted measurement.

FCC Part 15.247 Page 4 of 45

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.

Report No.: RSZ141202001-00D

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 December 06, 2010. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2009.

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.

FCC Part 15.247 Page 5 of 45

SYSTEM TEST CONFIGURATION

Description of Test Configuration

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

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

Report No.: RSZ141202001-00D

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

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

RF test tool built-in the EUT.

The test was performed under:

802.11b: Data rate: 1 Mbps, Power level: 0 802.11g: Data rate: 6 Mbps, Power level: 1020 802.11n-HT20: Data rate: MCS0, Power level: 1020

FCC Part 15.247 Page 6 of 45

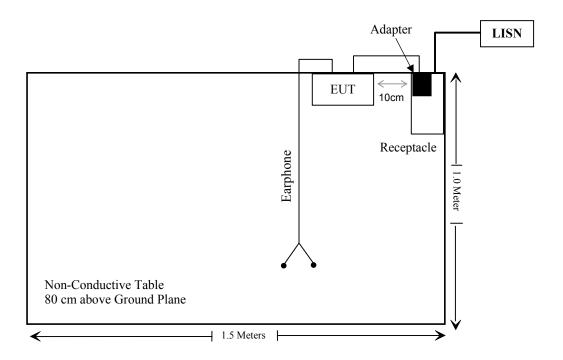
External I/O Cable

Cable Description	Length (m)	From Port	То
Un-shielding Detachable USB Cable	1.0	EUT	Adapter
Un-shielding Detachable Earphone Cable	1.0	EUT	Earphone

Report No.: RSZ141202001-00D

Block Diagram of Test Setup

For conducted emission



FCC Part 15.247 Page 7 of 45

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
§15.247(d)	Spurious Emissions at Antenna Port	Compliance
\$15.205, \$15.209, \$15.247(d)	Spurious Emissions	Compliance
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliance
§15.247(b)(3)	Maximum Conducted Output Power	Compliance
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliance
§15.247(e)	Power Spectral Density	Compliance

Report No.: RSZ141202001-00D

FCC Part 15.247 Page 8 of 45

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.

Report No.: RSZ141202001-00D

The SAR data please refer to the SAR report, report No.: RSZ141202001-20.

FCC Part 15.247 Page 9 of 45

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.: RSZ141202001-00D

- 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 one integral antenna arrangement for wifi, which was permanently attached and the antenna gain is 0 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliance.

FCC Part 15.247 Page 10 of 45

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207

Measurement Uncertainty

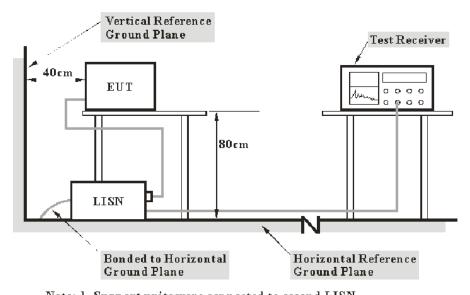
Input quantities to be considered for conducted disturbance measurements maybe receiver reading, attenuation of the connection between LISN and receiver, LISN voltage division factor, LISN VDF frequency interpolation and receiver related input quantities, etc.

Based on CISPR 16-4-2:2011, the expended 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.

Report No.: RSZ141202001-00D

Port	Expanded Measurement uncertainty
AC Mains	3.26 dB (k=2, 95% level of confidence)
CAT 3	3.70 dB (k=2, 95% level of confidence)
CAT 5	3.86 dB (k=2, 95% level of confidence)
CAT 6	4.64 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 C63.4-2009 measurement procedure. The specification used was with the FCC Part 15.207 limits.

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

FCC Part 15.247 Page 11 of 45

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

Report No.: RSZ141202001-00D

Test Procedure

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

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

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

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCS30	100176	2014-06-03	2015-06-03
Rohde & Schwarz	LISN	ENV216	3560.6650.12- 101613-Yb	2014-06-09	2015-06-09
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2014-05-14	2015-05-14
Rohde & Schwarz	CE Test software	EMC 32	V8.53	-	-

^{*} 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:

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

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

Margin = Limit – Corrected Amplitude

FCC Part 15.247 Page 12 of 45

Test Results Summary

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

Report No.: RSZ141202001-00D

9.8 dB at 0.150000 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

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

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

Test Data

Environmental Conditions

Temperature:	24 °C
Relative Humidity:	55 %
ATM Pressure:	101.0 kPa

The testing was performed by Sewen Guo on 2014-12-08.

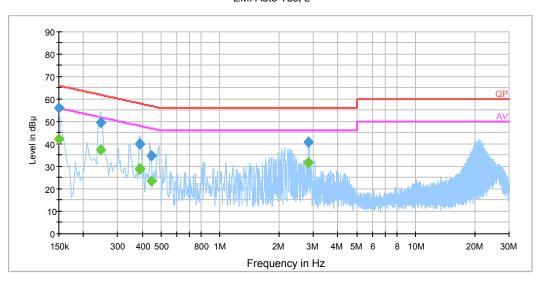
EUT operation mode: Charging &Transmitting

FCC Part 15.247 Page 13 of 45

AC 120V/60 Hz, Line

EMI Auto Test L

Report No.: RSZ141202001-00D



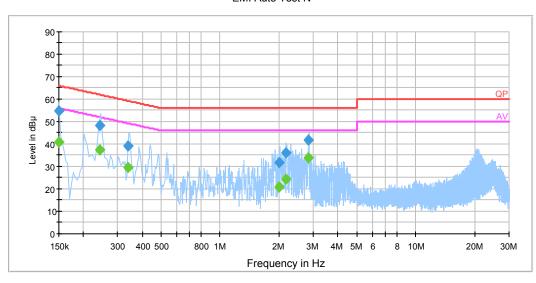
Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
0.150000	56.2	19.2	66.0	9.8	QP
0.150000	42.4	19.2	56.0	13.6	Ave.
0.245500	49.7	19.3	61.9	12.2	QP
0.245500	37.2	19.3	51.9	14.7	Ave.
0.388150	39.9	19.3	58.1	18.2	QP
0.388150	28.8	19.3	48.1	19.3	Ave.
0.388210	40.1	19.3	58.1	18.0	QP
0.388210	29.0	19.3	48.1	19.1	Ave.
0.443430	34.9	19.3	57.0	22.1	QP
0.443430	23.3	19.3	47.0	23.7	Ave.
2.835430	41.0	19.5	56.0	15.0	QP
2.835430	31.8	19.5	46.0	14.2	Ave.

FCC Part 15.247 Page 14 of 45

AC 120V/60 Hz, Neutral

EMI Auto Test N

Report No.: RSZ141202001-00D



Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
0.150000	55.0	19.2	66.0	11.0	QP
0.150000	40.8	19.2	56.0	15.2	Ave.
0.241500	48.1	19.2	62.0	14.0	QP
0.241500	37.5	19.2	52.0	14.5	Ave.
0.336870	39.2	19.2	59.3	20.1	QP
0.336870	29.4	19.2	49.3	19.9	Ave.
1.999550	31.9	19.4	56.0	24.1	QP
1.999550	20.8	19.4	46.0	25.2	Ave.
2.165330	36.0	19.4	56.0	20.0	QP
2.165330	24.5	19.4	46.0	21.5	Ave.
2.839370	41.9	19.4	56.0	14.1	QP
2.839370	34.0	19.4	46.0	12.0	Ave.

Note:

- 1) Correction Factor =LISN VDF (Voltage Division Factor) + Cable Loss + Transient Limiter Attenuation
- 2) Corrected Amplitude = Reading + Correction Factor3) Margin = Limit Corrected Amplitude

FCC Part 15.247 Page 15 of 45

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

Applicable Standard

FCC §15.247 (d); §15.209; §15.205;

Measurement Uncertainty

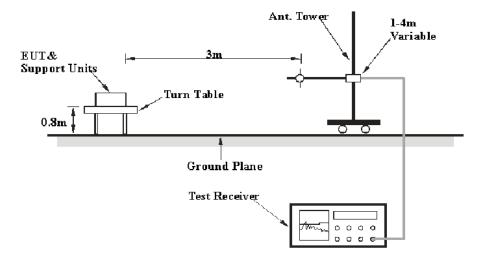
All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency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

Report No.: RSZ141202001-00D

Based on CISPR 16-4-2:2011, the expended combined standard uncertainty of radiation emissions at Bay Area Compliance Laboratories Corp. (Shenzhen) is 5.91 dB for 30MHz-1GHz and 4.92 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

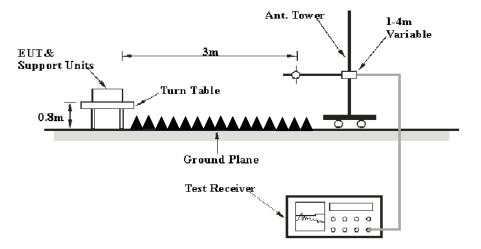
EUT Setup

Below 1 GHz:



FCC Part 15.247 Page 16 of 45

Above 1GHz:



Report No.: RSZ141202001-00D

The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.4-2009. 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
Above I GHZ	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.

FCC Part 15.247 Page 17 of 45

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Horn Antenna	DRH-118	A052304	2014-11-01	2015-11-30
Rohde & Schwarz	Signal Analyzer	FSIQ26	837405/023	2014-08-22	2015-08-22
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2014-11-03	2015-11-03
Sunol Sciences	Broadband Antenna	JB3	A111513	2014-06-18	2017-06-17
НР	Signal Generator	8341B	2624A00116	2014-06-03	2015-06-03
COM POWER	Dipole Antenna	AD-100	041000	NCR	NCR
A.H. System	Horn Antenna	SAS-200/571	135	2012-02-11	2015-02-10
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	106891	2014-11-23	2015-11-23

Report No.: RSZ141202001-00D

Corrected Amplitude & Margin Calculation

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

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

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

Margin = Limit – Corrected Amplitude

Test Results Summary

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

14 dB at **480 MHz** in the **Vertical** polarization for 802.11g mode for low channel

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

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

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

FCC Part 15.247 Page 18 of 45

^{*} 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:	26 ℃
Relative Humidity:	52 %
ATM Pressure:	101.0 kPa

The testing was performed by Sewen Guo on 2014-12-10.

EUT operation mode: Transmitting

30 MHz-25 GHz:

802.11b Mode:

Frequency	Re	eceiver	Turntable	Rx An	tenna		Corrected		C Part //205/209			
(MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)	Degree	Height (m)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)			
	Low Channel (2412 MHz)											
480	46.02	QP	248	1.3	V	-15.6	30.42	46	15.58			
2412.00	95.06	PK	127	2.3	Н	6.13	101.19	/	/			
2412.00	93.23	Ave.	127	2.3	Н	6.13	99.36	/	/			
2412.00	96.75	PK	274	2.0	V	6.13	102.88	/	/			
2412.00	93.51	Ave.	274	2.0	V	6.13	99.64	/	/			
2350.89	38.34	PK	62	1.4	Н	5.48	43.82	74	30.18			
2350.89	25.80	Ave.	62	1.4	Н	5.48	31.28	54	22.72			
2388.80	41.38	PK	187	2.4	Н	5.48	46.86	74	27.14			
2388.80	26.35	Ave.	187	2.4	Н	5.48	31.83	54	22.17			
2485.26	37.14	PK	93	2.3	V	7.21	44.35	74	29.65			
2485.26	22.61	Ave.	93	2.3	V	7.21	29.82	54	24.18			
4824.00	35.71	PK	145	2.0	V	12.44	48.15	74	25.85			
4824.00	22.56	Ave.	145	2.0	V	12.44	35.00	54	19.00			
7236.00	34.59	PK	301	1.9	Н	17.06	51.65	74	22.35			
7236.00	21.57	Ave.	301	1.9	Н	17.06	38.63	54	15.37			
9648.00	35.28	PK	206	2.1	V	19.28	54.56	74	19.44			
9648.00	20.10	Ave.	206	2.1	V	19.28	39.38	54	14.62			

Report No.: RSZ141202001-00D

FCC Part 15.247 Page 19 of 45

Frequency	Re	eceiver	Turntable	Rx Ar	ntenna		Corrected		C Part /205/209
(MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)	Degree	Height (m)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)		Margin (dB)
			Middle C	hannel	(2437 N	(Hz)			
480	47.2	QP	248	1.1	V	-15.6	31.60	46	14.4
2437.00	95.92	PK	14	1.7	Н	6.13	102.05	/	/
2437.00	92.12	Ave.	14	1.7	Н	6.13	98.25	/	/
2437.00	95.89	PK	127	2.4	V	6.13	102.02	/	/
2437.00	93.78	Ave.	127	2.4	V	6.13	99.91	/	/
2389.82	38.67	PK	10	2.2	V	5.48	44.15	74	29.85
2389.82	25.36	Ave.	10	2.2	V	5.48	30.84	54	23.16
2488.84	41.47	PK	146	1.3	Н	7.21	48.68	74	25.32
2488.84	26.39	Ave.	146	1.3	Н	7.21	33.60	54	20.40
2492.33	38.22	PK	312	1.8	Н	7.21	45.43	74	28.57
2492.33	22.81	Ave.	312	1.8	Н	7.21	30.02	54	23.98
4874.00	35.82	PK	162	2.4	V	12.4	48.22	74	25.78
4874.00	23.75	Ave.	162	2.4	V	12.4	36.15	54	17.85
7311.00	34.64	PK	208	1.3	V	16.62	51.26	74	22.74
7311.00	20.55	Ave.	208	1.3	V	16.62	37.17	54	16.83
9748.00	34.53	PK	334	1.3	V	19.4	53.93	74	20.07
9748.00	19.93	Ave.	334	1.3	V	19.4	39.33	54	14.67
	•	1	High Ch	nannel (2	2462 M	Hz)		•	
480	47.41	QP	248	1.1	V	-15.6	31.81	46	14.19
2462.00	96.22	PK	170	2.4	Н	6.13	102.35	/	/
2462.00	93.00	Ave.	170	2.4	Н	6.13	99.13	/	/
2462.00	96.28	PK	234	1.5	V	6.13	102.41	/	/
2462.00	92.13	Ave.	234	1.5	V	6.13	98.26	/	/
2384.80	38.73	PK	323	1.6	Н	5.48	44.21	74	29.79
2384.80	24.40	Ave.	323	1.6	Н	5.48	29.88	54	24.12
2484.74	41.57	PK	290	1.1	Н	7.21	48.78	74	25.22
2484.74	26.99	Ave.	290	1.1	Н	7.21	34.2	54	19.80
2491.16	37.65	PK	138	2.4	V	7.21	44.86	74	29.14
2491.16	21.61	Ave.	138	2.4	V	7.21	28.82	54	25.18
4924.00	36.60	PK	309	1.4	V	12.46	49.06	74	24.94
4924.00	23.30	Ave.	309	1.4	V	12.46	35.76	54	18.24
7386.00	36.38	PK	280	1.1	V	15.91	52.29	74	21.71
7386.00	20.87	Ave.	280	1.1	V	15.91	36.78	54	17.22
9848.00	34.80	PK	76	2.0	Н	19.29	54.09	74	19.91
9848.00	19.37	Ave.	76	2.0	Н	19.29	38.66	54	15.34

Report No.: RSZ141202001-00D

FCC Part 15.247 Page 20 of 45

802.11g Mode:

Frequency	Re	eceiver	Turntable	Rx An	itenna		Corrected	15 247	C Part /205/209
(MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)		Margin (dB)
			Low Ch	annel (2	2412 MI	Hz)			
480	47.6	QP	248	1.1	V	-15.6	32.0	46	14.0
2412.00	95.85	PK	235	2.1	Н	6.13	101.98	/	/
2412.00	92.64	Ave.	235	2.1	Н	6.13	98.77	/	/
2412.00	95.52	PK	7	2.0	V	6.13	101.65	/	/
2412.00	92.87	Ave.	7	2.0	V	6.13	99.00	/	/
2345.69	38.31	PK	41	1.1	V	5.48	43.79	74	30.21
2345.69	23.32	Ave.	41	1.1	V	5.48	28.80	54	25.20
2376.90	43.35	PK	316	1.7	Н	5.48	48.83	74	25.17
2376.90	26.04	Ave.	316	1.7	Н	5.48	31.52	54	22.48
2494.64	36.44	PK	317	1.9	Н	7.21	43.65	74	30.35
2494.64	23.07	Ave.	317	1.9	Н	7.21	30.28	54	23.72
4824.00	36.30	PK	140	1.0	Н	12.44	48.74	74	25.26
4824.00	22.14	Ave.	140	1.0	Н	12.44	34.58	54	19.42
7236.00	34.71	PK	302	1.4	Н	17.06	51.77	74	22.23
7236.00	21.11	Ave.	302	1.4	Н	17.06	38.17	54	15.83
9648.00	34.33	PK	52	1.5	Н	19.28	53.61	74	20.39
9648.00	20.71	Ave.	52	1.5	Н	19.28	39.99	54	14.01
			Middle C	hannel	(2437 N	(Hz)			
480	46.33	QP	248	1.2	V	-15.6	30.73	46	15.27
2437.00	95.71	PK	80	1.7	Н	6.13	101.84	/	/
2437.00	93.73	Ave.	80	1.7	Н	6.13	99.86	/	/
2437.00	96.47	PK	280	1.4	V	6.13	102.6	/	/
2437.00	92.14	Ave.	280	1.4	V	6.13	98.27	/	/
2382.80	38.01	PK	139	2.4	Н	5.48	43.49	74	30.51
2382.80	25.69	Ave.	139	2.4	Н	5.48	31.17	54	22.83
2483.62	42.60	PK	17	2.2	Н	7.21	49.81	74	24.19
2483.62	27.97	Ave.	17	2.2	Н	7.21	35.18	54	18.82
2494.94	37.20	PK	103	2.1	V	7.21	44.41	74	29.59
2494.94	23.47	Ave.	103	2.1	V	7.21	30.68	54	23.32
4874.00	35.73	PK	192	1.4	V	12.4	48.13	74	25.87
4874.00	22.12	Ave.	192	1.4	V	12.4	34.52	54	19.48
7311.00	34.55	PK	64	2.2	V	16.62	51.17	74	22.83
7311.00	21.92	Ave.	64	2.2	V	16.62	38.54	54	15.46
9748.00	34.41	PK	272	1.3	Н	19.4	53.81	74	20.19
9748.00	19.30	Ave.	272	1.3	Н	19.4	38.70	54	15.30

Report No.: RSZ141202001-00D

FCC Part 15.247 Page 21 of 45

Frequency	Ro	eceiver	Turntable	Rx An	itenna		Corrected	15.247	C Part 7/205/209		
(MHz)		Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)							
	High Channel (2462 MHz)										
480	45.32	QP	248	1.1	V	-15.6	29.72	46	16.28		
2462.00	96.53	PK	4	2.3	Н	6.13	102.66	/	/		
2462.00	92.34	Ave.	4	2.3	Н	6.13	98.47	/	/		
2462.00	96.94	PK	49	2.5	V	6.13	103.07	/	/		
2462.00	92.65	Ave.	49	2.5	V	6.13	98.78	/	/		
2366.61	38.21	PK	283	1.8	Н	5.48	43.69	74	30.31		
2366.61	24.70	Ave.	283	1.8	Н	5.48	30.18	54	23.82		
2485.82	43.35	PK	344	1.6	Н	7.21	50.56	74	23.44		
2485.82	27.70	Ave.	344	1.6	Н	7.21	34.91	54	19.09		
2498.77	37.34	PK	119	1.5	V	7.21	44.55	74	29.45		
2498.77	22.02	Ave.	119	1.5	V	7.21	29.23	54	24.77		
4924.00	37.60	PK	233	1.4	Н	12.46	50.06	74	23.94		
4924.00	21.48	Ave.	233	1.4	Н	12.46	33.94	54	20.06		
7386.00	35.05	PK	85	2.2	Н	15.91	50.96	74	23.04		
7386.00	21.70	Ave.	85	2.2	Н	15.91	37.61	54	16.39		
9848.00	35.87	PK	191	1.3	V	19.29	55.16	74	18.84		
9848.00	19.85	Ave.	191	1.3	V	19.29	39.14	54	14.86		

Report No.: RSZ141202001-00D

FCC Part 15.247 Page 22 of 45

802.11n-HT20 Mode:

Frequency	Re	eceiver	Turntable	Rx Aı	ntenna		Corrected		C Part /205/209
(MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
			Low Ch	annel (2	2412 MI	Hz)			
480	46.24	QP	248	1.2	V	-15.6	30.64	46	15.36
2412.00	96.47	PK	195	1.9	Н	6.13	102.60	/	/
2412.00	93.07	Ave.	195	1.9	Н	6.13	99.20	/	/
2412.00	96.26	PK	323	1.4	V	6.13	102.39	/	/
2412.00	92.20	Ave.	323	1.4	V	6.13	98.33	/	/
2353.26	37.91	PK	219	1.2	V	5.48	43.39	74	30.61
2353.26	25.53	Ave.	219	1.2	V	5.48	31.01	54	22.99
2379.34	41.46	PK	137	1.5	Н	5.48	46.94	74	27.06
2379.34	26.73	Ave.	137	1.5	Н	5.48	32.21	54	21.79
2495.41	36.78	PK	286	1.9	Н	7.21	43.99	74	30.01
2495.41	22.32	Ave.	286	1.9	Н	7.21	29.53	54	24.47
4824.00	37.13	PK	166	2.3	Н	12.44	49.57	74	24.43
4824.00	21.01	Ave.	166	2.3	Н	12.44	33.45	54	20.55
7236.00	35.55	PK	283	1.1	Н	17.06	52.61	74	21.39
7236.00	20.81	Ave.	283	1.1	Н	17.06	37.87	54	16.13
9648.00	34.95	PK	292	1.9	V	19.28	54.23	74	19.77
9648.00	20.36	Ave.	292	1.9	V	19.28	39.64	54	14.36
			Middle C	hannel	(2437 N	(Hz)			
480	45.72	QP	248	1.2	V	-15.6	30.12	46	15.88
2437.00	95.44	PK	130	2.3	Н	6.13	101.57	/	/
2437.00	92.18	Ave.	130	2.3	Н	6.13	98.31	/	/
2437.00	95.70	PK	190	2.1	V	6.13	101.83	/	/
2437.00	92.78	Ave.	190	2.1	V	6.13	98.91	/	/
2375.38	39.94	PK	53	2.0	Н	5.48	45.42	74	28.58
2375.38	24.58	Ave.	53	2.0	Н	5.48	30.06	54	23.94
2485.96	42.05	PK	63	1.1	Н	7.21	49.26	74	24.74
2485.96	28.29	Ave.	63	1.1	Н	7.21	35.5	54	18.50
2492.84	36.09	PK	47	2.3	V	7.21	43.3	74	30.70
2492.84	23.86	Ave.	47	2.3	V	7.21	31.07	54	22.93
4874.00	37.59	PK	52	1.1	V	12.4	49.99	74	24.01
4874.00	22.65	Ave.	52	1.1	V	12.4	35.05	54	18.95
7311.00	35.83	PK	184	2.1	Н	16.62	52.45	74	21.55
7311.00	21.97	Ave.	184	2.1	Н	16.62	38.59	54	15.41
9748.00	34.04	PK	100	1.6	Н	19.4	53.44	74	20.56
9748.00	19.64	Ave.	100	1.6	Н	19.4	39.04	54	14.96

Report No.: RSZ141202001-00D

FCC Part 15.247 Page 23 of 45

Frequency	Re	eceiver	Turntable	Rx An	itenna		Corrected	15.247	C Part 7/205/209	
(MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)	Degree	Height (m)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)	
	High Channel (2462 MHz)									
480	45.21	QP	248	1.2	V	-15.6	29.61	46	16.39	
2462.00	96.05	PK	160	2.3	Н	6.13	102.18	/	/	
2462.00	93.02	Ave.	160	2.3	Н	6.13	99.15	/	/	
2462.00	96.25	PK	341	2.5	V	6.13	102.38	/	/	
2462.00	92.21	Ave.	341	2.5	V	6.13	98.34	/	/	
2376.24	39.53	PK	320	2.2	Н	5.48	45.01	74	28.99	
2376.24	23.96	Ave.	320	2.2	Н	5.48	29.44	54	24.56	
2485.26	41.77	PK	284	2.0	Н	7.21	48.98	74	25.02	
2485.26	28.29	Ave.	284	2.0	Н	7.21	35.5	54	18.50	
2493.33	36.17	PK	110	1.7	V	7.21	43.38	74	30.62	
2493.33	21.89	Ave.	110	1.7	V	7.21	29.1	54	24.90	
4924.00	35.61	PK	21	1.2	Н	12.46	48.07	74	25.93	
4924.00	23.99	Ave.	21	1.2	Н	12.46	36.45	54	17.55	
7386.00	35.01	PK	51	1.1	Н	15.91	50.92	74	23.08	
7386.00	20.38	Ave.	51	1.1	Н	15.91	36.29	54	17.71	
9848.00	35.38	PK	359	2.2	Н	19.29	54.67	74	19.33	
9848.00	20.41	Ave.	359	2.2	Н	19.29	39.7	54	14.30	

Report No.: RSZ141202001-00D

Note:

Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor Corrected Amplitude = Corrected Factor + Reading Margin = Limit - Corrected. Amplitude

FCC Part 15.247 Page 24 of 45

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

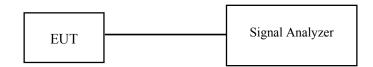
Applicable Standard

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

Report No.: RSZ141202001-00D

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	Signal Analyzer	FSIQ26	837405/023	2014-08-22	2015-08-22

^{*} 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 ℃
Relative Humidity:	55 %
ATM Pressure:	101.0 kPa

The testing was performed by Sewen Guo on 2014-12-10.

Test Result: Pass.

Please refer to the following tables and plots.

FCC Part 15.247 Page 25 of 45

EUT operation mode: Transmitting

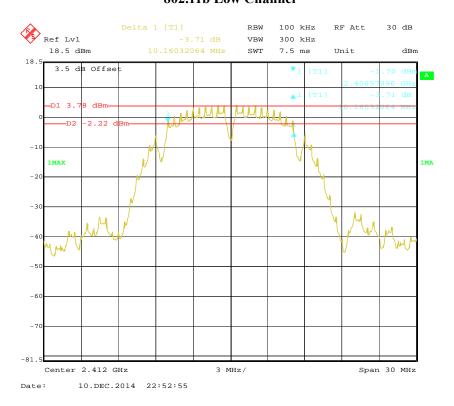
Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (kHz)						
	802.11	b mode							
Low	2412	10.16	≥500						
Middle	2437	10.16	≥500						
High	2462	10.16	≥500						
	802.11g mode								
Low	2412	16.47	≥500						
Middle	2437	16.47	≥500						
High	2462	16.47	≥500						
	802.11n-H	TZ0 mode							
Low	2412	17.31	≥500						
Middle	2437	17.31	≥500						
High	2462	17.31	≥500						

Report No.: RSZ141202001-00D

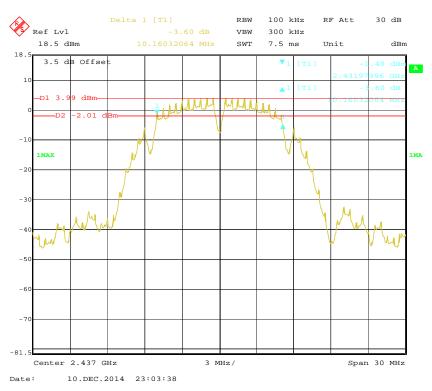
FCC Part 15.247 Page 26 of 45

802.11b Low Channel

Report No.: RSZ141202001-00D



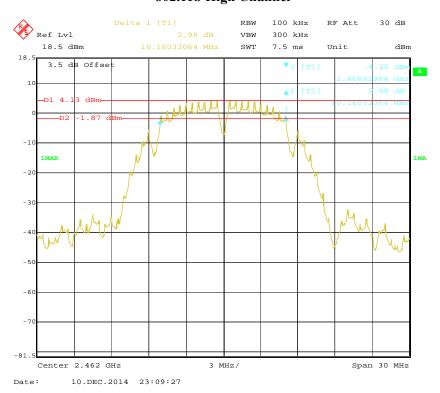
802.11b Middle Channel



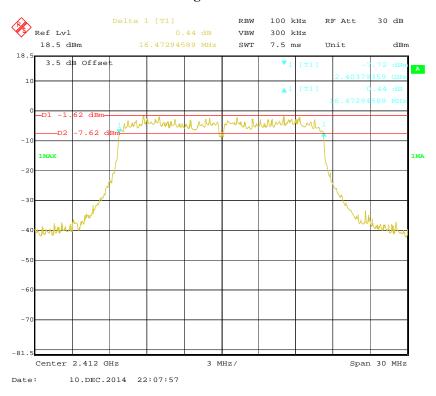
FCC Part 15.247 Page 27 of 45

802.11b High Channel

Report No.: RSZ141202001-00D



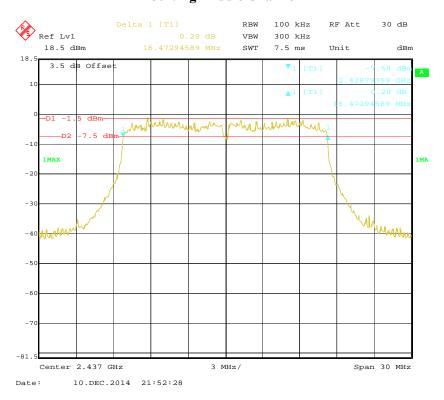
802.11g Low Channel



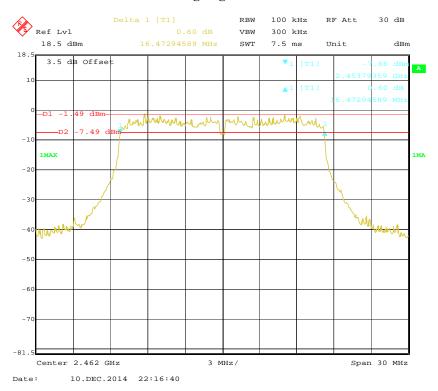
FCC Part 15.247 Page 28 of 45

802.11g Middle Channel

Report No.: RSZ141202001-00D

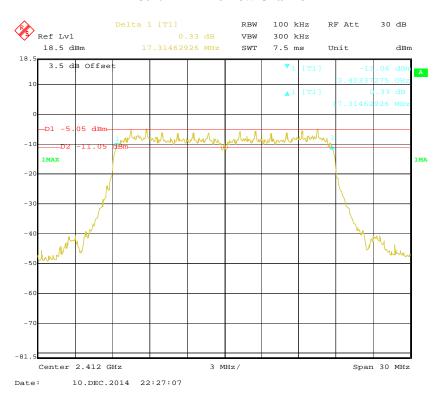


802.11g High Channel

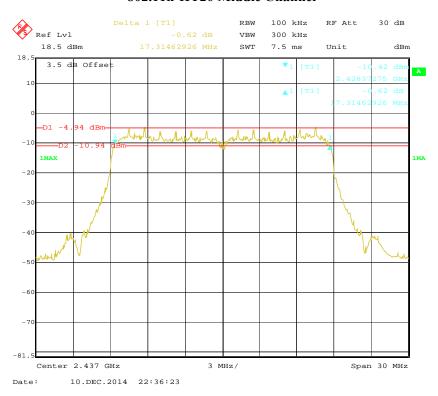


FCC Part 15.247 Page 29 of 45

802.11n-HT20 Low Channel



802.11n-HT20 Middle Channel



FCC Part 15.247 Page 30 of 45

Report No.: RSZ141202001-00D



FCC Part 15.247 Page 31 of 45

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

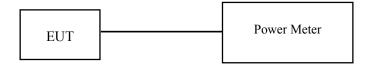
Applicable Standard

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.

Report No.: RSZ141202001-00D

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
НР	Power Meter	EPM-441A	GB37481494	2014-11-03	2015-11-03
НР	Power Sensor	8481A	1926A16635	2014-11-03	2015-11-03

^{*} 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℃	
Relative Humidity:	55 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Sewen Guo on 2014-12-10

EUT operation mode: Transmitting

FCC Part 15.247 Page 32 of 45

Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Max Conducted Average Output Power (dBm)	Limit (dBm)			
	802.11b						
Low	2412	15.86	15.47	30			
Middle	2437	16.06	15.58	30			
High	2462	16.11	15.71	30			
		802.11g					
Low	2412	18.00	12.56	30			
Middle	2437	18.16	13.08	30			
High	2462	17.77	12.72	30			
	802.11n-HT20						
Low	2412	14,56	8.92	30			
Middle	2437	14.55	8.70	30			
High	2462	14.46	8.66	30			

Report No.: RSZ141202001-00D

FCC Part 15.247 Page 33 of 45

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

Report No.: RSZ141202001-00D

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	Signal Analyzer	FSIQ26	837405/023	2014-08-22	2015-08-22

^{*} 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

Temperature:	25℃	
Relative Humidity:	55 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Sewen Guo on 2014-12-10

Test Result: Compliance

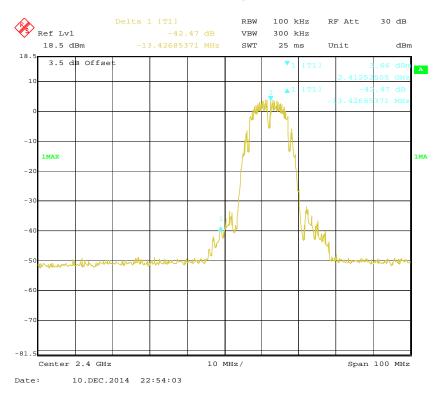
Please refer to the following table and plots.

FCC Part 15.247 Page 34 of 45

Mode	Band edges	Delta Peak to band emission (dBc)	Limit (dBc)
802.11b	Left Side	42.47	20
	Right Side	52.83	20
802.11g	Left Side	37.13	20
	Right Side	46.79	20
802.11n20	Left Side	36.36	20
	Right Side	43.87	20

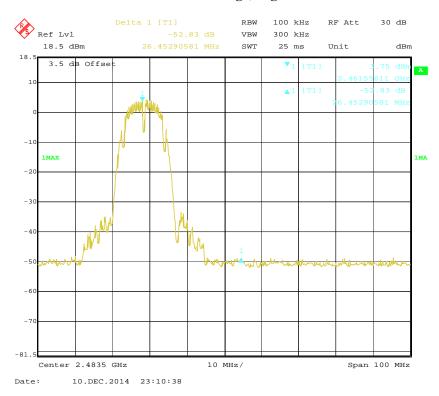
Report No.: RSZ141202001-00D

802.11b: Band Edge, Left Side

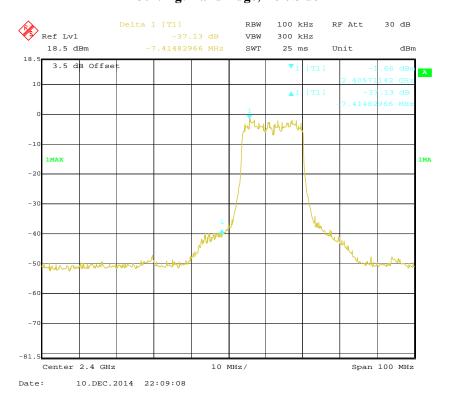


FCC Part 15.247 Page 35 of 45

802.11b: Band Edge, Right Side



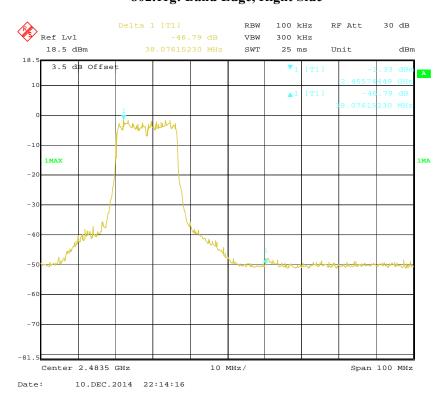
802.11g: Band Edge, Left Side



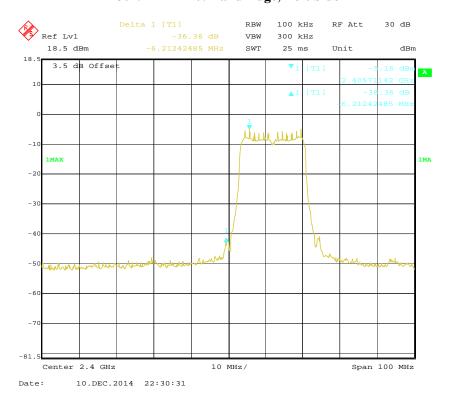
FCC Part 15.247 Page 36 of 45

802.11g: Band Edge, Right Side

Report No.: RSZ141202001-00D



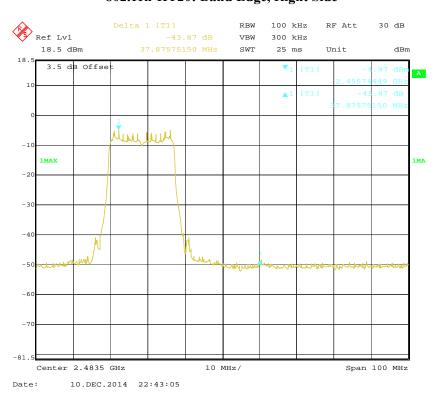
802.11n-HT20: Band Edge, Left Side



FCC Part 15.247 Page 37 of 45

802.11n-HT20: Band Edge, Right Side

Report No.: RSZ141202001-00D



FCC Part 15.247 Page 38 of 45

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.: RSZ141202001-00D

Test Procedure

According to KDB558074 D01 DTS Meas Guidance v03r02 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: 3kHz < RBW < 100 kHz.
- 3. Set the VBW \geq 3×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	Signal Analyzer	FSIQ26	837405/023	2014-08-22	2015-08-22

^{*} 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 ℃	
Relative Humidity:	55 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Sewen Guo on 2014-12-10

EUT operation mode: Transmitting

Test Result: Pass

FCC Part 15.247 Page 39 of 45

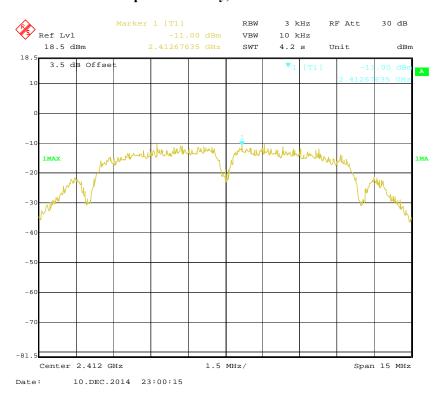
Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)			
	802.11b mode					
Low	2412	-11.00	€8			
Middle	2437	-10.06	€8			
High	2462	-10.84	€8			
	802.11g	mode				
Low	2412	-15.83	≤8			
Middle	2437	-15.85	€8			
High	2462	-15.50	≤8			
802.11n-HT20 mode						
Low	2412	-14.90	≤8			
Middle	2437	-14.43	≤8			
High	2462	-14.46	€8			

Report No.: RSZ141202001-00D

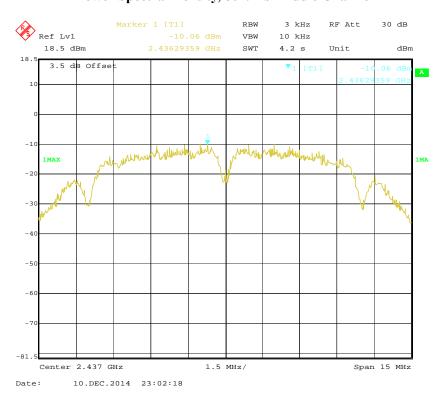
FCC Part 15.247 Page 40 of 45

Power Spectral Density, 802.11b Low Channel

Report No.: RSZ141202001-00D



Power Spectral Density, 802.11b Middle Channel



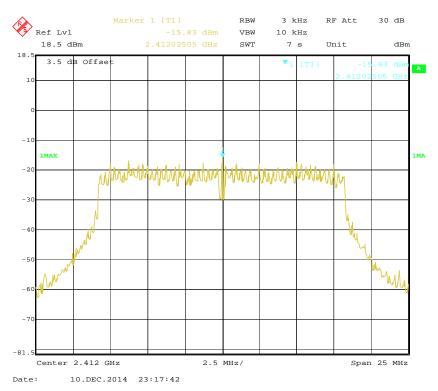
FCC Part 15.247 Page 41 of 45

Power Spectral Density, 802.11b High Channel

Report No.: RSZ141202001-00D



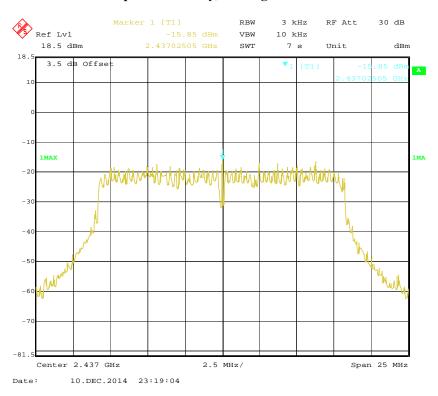
Power Spectral Density, 802.11g Low Channel



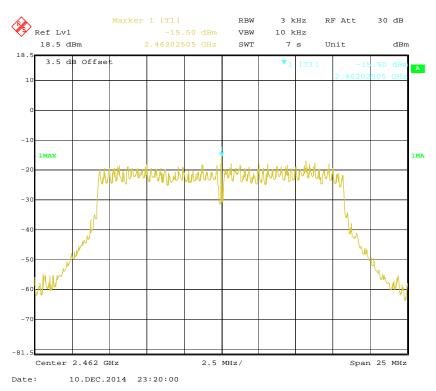
FCC Part 15.247 Page 42 of 45

Power Spectral Density, 802.11g Middle Channel

Report No.: RSZ141202001-00D



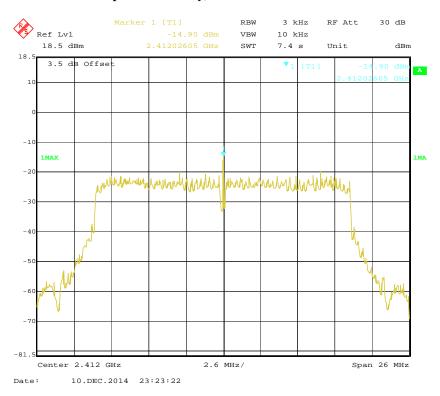
Power Spectral Density, 802.11g High Channel



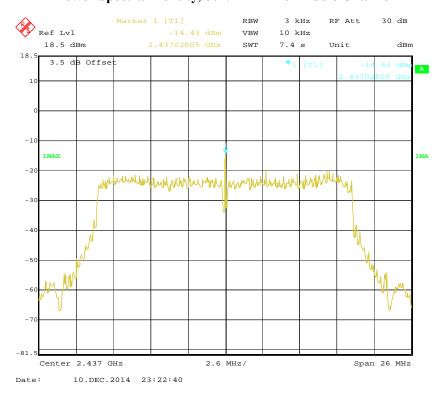
FCC Part 15.247 Page 43 of 45

Power Spectral Density, 802.11n-HT20 Low Channel

Report No.: RSZ141202001-00D



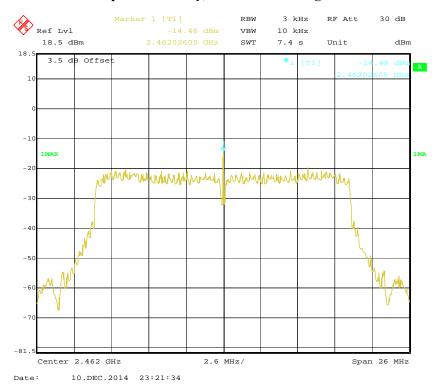
Power Spectral Density, 802.11n-HT20 Middle Channel



FCC Part 15.247 Page 44 of 45

Power Spectral Density, 802.11n-HT20 High Channel

Report No.: RSZ141202001-00D



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

FCC Part 15.247 Page 45 of 45