

FCC PART 15.247 TEST REPORT

For

FORMIKE ELECTRONIC CO.,LTD.

Flats 401-403, 4/F, iPARK Building, 26 DengLiang Rd., NanShan District, Shenzhen , China

FCC ID: 2AK44-KWH-EMW110-XX

Report Type: **Product Name:** WIFI MODULE Original Report **Report Number:** RDG171205003-00 **Report Date:** 2017-12-12 Jerry Zhang Jerry Zhang Reviewed By: EMC Manager Bay Area Compliance Laboratories Corp. (Dongguan) No.69 Pulongcun, Puxinhu Industry Area, **Test Laboratory:** 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).

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *FORMIKE ELECTRONIC CO.,LTD.*'s product, model number: *EMW110* (*FCC ID: 2AK44-KWH-EMW110-XX*) (the "EUT") in this report was a *WIFI MODULE*, which was measured approximately: 20.0mm(L)*18.0mm(W)*3.0mm(H), rated power: DC 3.3V.

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Note: The series product, model EMW110-P, EMW110-E, EMW110 are electrically identical, the difference between them is model name, we selected EMW110 for testing, the detail was explained in the attached declaration letter.

*All measurement and test data in this report was gathered from production sample serial number: 171205003 (Assigned by BACL,Dongguan). The EUT was received on 2017-12-05.

Objective

This report is prepared on behalf of *FORMIKE ELECTRONIC CO.,LTD.* in accordance with Part 2, Subpart J, Part 15, Subparts A, and C of the Federal Communications Commission's rules.

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

Related Submittal(s)/Grant(s)

No related submittal(s)/Grant(s).

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices and KDB 558074 D01 DTS Meas Guidance v04.

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Dongguan).

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Measurement Uncertainty

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	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~26.5GHz: 5.23 dB
Unwanted Emissions, conducted	±1.5 dB
Temperature	±1 °C
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	3.12 dB (150 kHz to 30 MHz)

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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 Industry Area, Tangxia, Dongguan, Guangdong, China.

Bay Area Compliance Laboratories Corp. (Dongguan) has been accredited to ISO/IEC 17025 by CNAS(Lab code: L5662). And accredited to ISO/IEC 17025 by NVLAP(Test Laboratory Accreditation Certificate Number 500069-0), the FCC Designation No. CN5002 under the KDB 974614 D01.

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.

Bay Area Compliance Laboratories Corp. (Dongguan) was registered with ISED Canada under ISED Canada Registration Number 3062D.

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SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in Engineering Mode, which was provided by the manufacturer.

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For 2.4GHz band, 11 channels are provided:

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	/	/

For 802.11b, 802.11g, and 802.11n ht20 modes were test with channel 1,6,11.

For 802.11n ht40 mode was test with channel 3,6, 9.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

The software "QATool_Dbg" was used for testing, which was provided by manufacturer. 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 maximum power was configured as below table, that provided by the manufacturer:

Test Mode	Test Software Version	QATool_Dbg				
	Test Frequency	2412MHz	2437MHz	2462MHz		
802.11b	Data Rate	1Mbps	1Mbps	1Mbps		
802.110	Power Level Setting	23	23	23		
	Test Frequency	2412MHz	2437MHz	2462MHz		
802.11g	Data Rate	6Mbps	6Mbps	6Mbps		
802.11g	Power Level Setting	23	23	23		
	Test Frequency	2412MHz	2437MHz	2462MHz		
802.11n ht20	Data Rate	MCS0	MCS0	MCS0		
002.11H Ht20	Power Level Setting	17	17	17		
	Test Frequency	2422MHz	2437MHz	2452MHz		
802.11n ht40	Data Rate	MCS0	MCS0	MCS0		
002.11H Ht40	Power Level Setting	1	1	1		

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The duty cycle as below:

Mode	T _{on} (ms)	T _{on+off} (ms)	Duty Cycle (%)
802.11b	100	100	100
802.11g	1.387	1.413	98
802.11n ht20	1.304	1.317	99
802.11n ht40	0.651	0.663	98

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802.11b

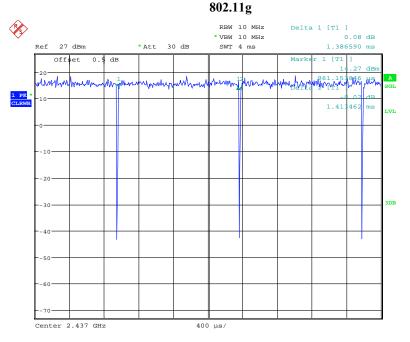


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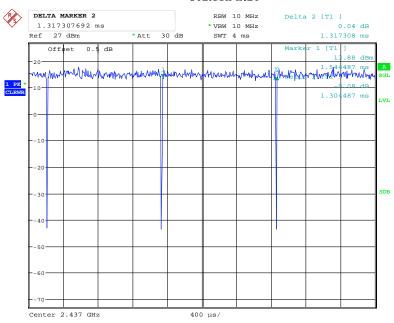
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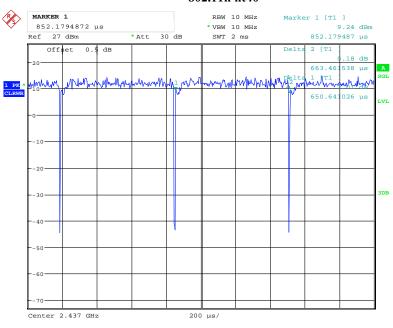
802.11n ht20



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Local Support Equipment List and Details

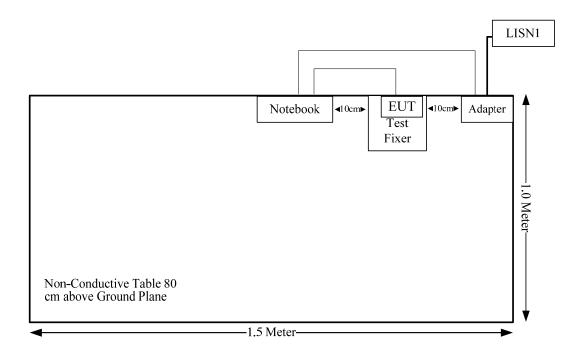
Manufacturer Description		Model	Serial Number
Lenovo	Laptop	G510	CB04060626
FORMIKE ELECTRONIC CO.,LTD.	Test Fixer	KWH-EMW3080T	N/A

Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	То
USB Cable	no	no	0.8	Laptop	Test Fixer

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Block Diagram of Test Setup



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SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC \$15.247 (i) & \$1.1310 & \$2.1091	Maximum Permissable Exposure (MPE)	Compliant
§15.203	Antenna Requirement	Compliant
§15.207 (a)	AC Line Conducted Emissions	Compliant
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliant
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliant
§15.247(b)(3)	Maximum conducted output power	Compliant
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliant
§15.247(e)	Power Spectral Density	Compliant

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FCC §15.247 (i) & §1.1310 & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

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

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

(B) Limits for General Population/Uncontrolled Exposure						
Frequency Range (MHz)	Averaging Time (minutes)					
0.3-1.34	614	1.63	*(100)	30		
1.34–30	824/f	2.19/f	*(180/f²)	30		
30–300	27.5	0.073	0.2	30		
300–1500	/	/	f/1500	30		
1500-100,000	/	/	1.0	30		

f = frequency in MHz; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

Calculation formula:

Prediction of power density at the distance of the applicable MPE limit

 $S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm²);

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

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

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

Calculated Data:

Frequency (MHz)	Antenna Gain		Conducted output power including Tune- up Tolerance		output power including Tune-		a Gain output pow including Tu		Evaluation Distance (cm)	Power Density (mW/cm²)	MPE Limit (mW/cm²)
	(dBi)	(numeric)	(dBm)	(mW)							
2412-2462	2	1.58	23	199.53	20.00	0.0628	1.0				

Result: The device meet FCC MPE at 20 cm distance

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FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

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- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT. Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

Antenna Connector Construction

The EUT have a PCB antenna, which was permanently attached to the Unit, antenna gain is 2dBi. Please refer to the EUT photo.

Result: Compliance.

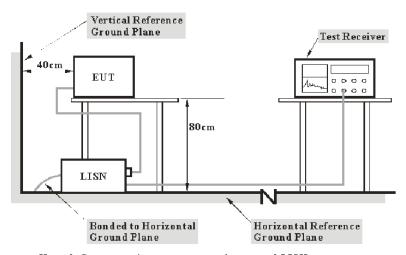
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FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207(a)

EUT Setup



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Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

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

The spacing between the peripherals was 10 cm.

The adapter was connected to the main lisn with AC 120 V/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	

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Test Procedure

During the conducted emission test, the EUT 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 limit. The equation for margin calculation is as follows:

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Margin = Limit – Corrected Amplitude

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCS 30	830245/006	2016-12-08	2017-12-08
R&S	L.I.S.N	ESH2-Z5	892107/021	2017-09-01	2018-09-01
R&S	Two-line V-network	ENV 216	3560.6550.12	2016-12-08	2017-12-08
R&S	Test Software	EMC32	Version8.53.0	N/A	N/A
N/A	Coaxial Cable	2m	C0200/01	2017-09-05	2018-09-05

^{*} 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).

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Test Data

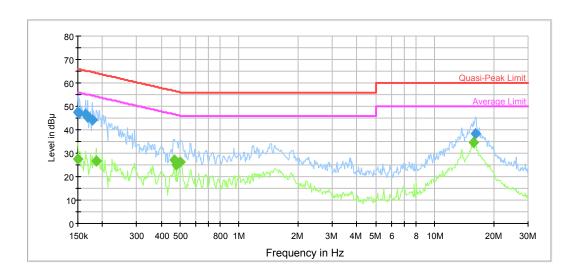
Environmental Conditions

Temperature:	23.6°C
Relative Humidity:	37 %
ATM Pressure:	101.7kPa

The testing was performed by Alex You on 2017-12-06.

Test Mode: Transmitting (802.11n ht40 mode Low channel was the worst)

AC120 V, 60 Hz, Line:



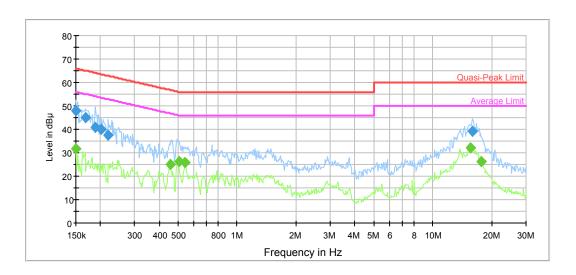
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Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.150000	47.5	9.000	L1	11.2	18.5	66.0	Compliance
0.152410	47.1	9.000	L1	11.2	18.8	65.9	Compliance
0.165051	46.8	9.000	L1	11.0	18.4	65.2	Compliance
0.169044	45.6	9.000	L1	10.9	19.4	65.0	Compliance
0.177322	44.2	9.000	L1	10.8	20.4	64.6	Compliance
16.122185	38.3	9.000	L1	10.0	21.7	60.0	Compliance

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment	
0.150000	27.4	9.000	L1	11.2	28.6	56.0	Compliance	
0.186006	26.5	9.000	L1	10.8	27.7	54.2	Compliance	
0.465037	27.2	9.000	L1	9.9	19.4	46.6	Compliance	
0.480097	25.0	9.000	L1	9.9	21.3	46.3	Compliance	
0.499611	26.2	9.000	L1	9.9	19.8	46.0	Compliance	
15.741362	34.5	9.000	L1	10.0	15.5	50.0	Compliance	

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AC120 V, 60 Hz, Neutral:



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Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment	
0.150000	48.0	9.000	N	11.2	18.0	66.0	Compliance	
0.167702	44.9	9.000	N	10.9	20.2	65.1	Compliance	
0.188994	40.8	9.000	N	10.7	23.3	64.1	Compliance	
0.203045	40.1	9.000	N	10.6	23.4	63.5	Compliance	
0.219886	37.6	9.000	N	10.5	25.2	62.8	Compliance	
15.994231	39.3	9.000	N	10.0	20.7	60.0	Compliance	

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment	
0.150000	31.5	9.000	N	11.2	24.5	56.0	Compliance	
0.454052	25.2	9.000	N	9.9	21.6	46.8	Compliance	
0.503608	26.2	9.000	N	9.9	19.8	46.0	Compliance	
0.541050	25.9	9.000	N	9.9	20.1	46.0	Compliance	
15.616430	31.9	9.000	N	10.0	18.1	50.0	Compliance	
17.739864	26.2	9.000	N	10.0	23.8	50.0	Compliance	

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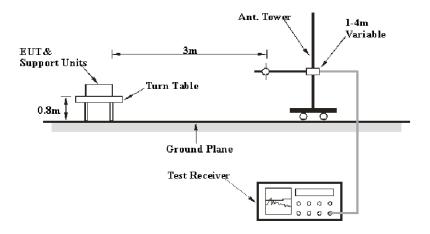
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

FCC §15.247 (d); §15.209; §15.205;

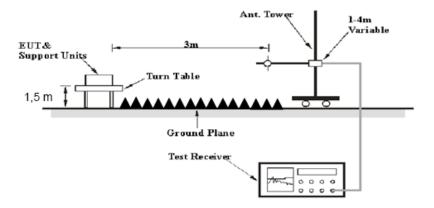
EUT Setup

Below 1GHz:



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Above 1GHz:



The radiated emission tests were performed in the 3 meters chamber 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.

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EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 25 GHz.

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

30MHz-1000MHz:

Measurement	RBW	Video B/W	IF B/W
QP	120 kHz	300 kHz	120kHz

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1GHz-25GHz:

Measurement	Duty cycle	RBW	Video B/W	
PK	Any	1MHz	3 MHz	
Avia	>98%	1MHz	10 Hz	
Ave.	<98%	1MHz	1/T	

Note: T is minimum transmission duration

Test Procedure

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

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

Corrected Amplitude & Margin Calculation

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

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

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

Margin = Limit –Corrected Amplitude

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Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2017-09-01	2018-09-01
Sunol Sciences	Antenna	JB3	A060611-2	2017-08-25	2020-08-25
HP	Amplifier	8447D	2727A05902	2017-09-05	2018-09-05
unknown	Coaxial Cable	4m	C0400/01	2017-09-05	2018-09-05
unknown	Coaxial Cable	0.75m	C0075/01	2017-09-05	2018-09-05
unknown	Coaxial Cable	10m	C1000/01	2017-09-05	2018-09-05
Agilent	Spectrum Analyzer	E4440A	SG43360054	2016-12-08	2017-12-08
ETS-Lindgren	Horn Antenna	3115	000 527 35	2016-01-05	2019-01-05
MITEQ	Amplifier	AFS42-00101800- 25-S-42	2001271	2017-09-05	2018-09-05
Ducommun Technolagies	Horn Antenna	ARH-4223-02	1007726-02 1304	2017-06-16	2020-06-15
Quinstar	Amplifier	QLW-18405536-JO	15964001001	2017-06-27	2018-06-27
unknown	Coaxial Cable	8m	C0800/01	2017-09-05	2018-09-05
Chengdu Ouli	Band Rejection Filter	2400-2483.5	002	2017-09-05	2018-09-05
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A

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Test Data

Environmental Conditions

Temperature:	24.8 °C
Relative Humidity:	42 %
ATM Pressure:	101 kPa

^{*} The testing was performed by Sunny Cen on 2017-12-07.

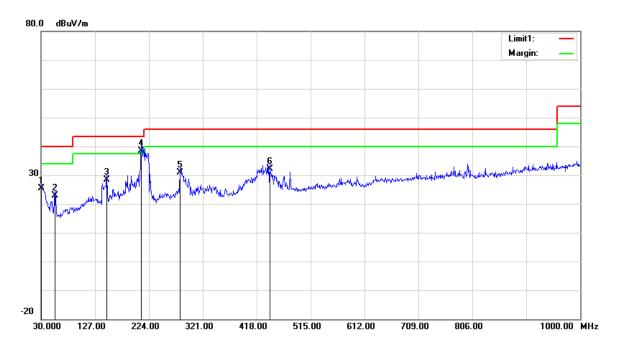
Test Mode: Transmitting

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^{*} 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).

1) Below 1GHz(802.11n ht40 mode Low channel was the worst):

Horizontal

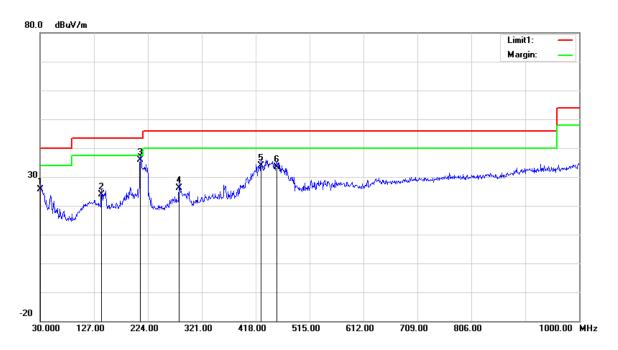


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Frequency (MHz)	Receiver Reading (dBµV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
30.9700	24.95	QP	0.35	25.30	40.00	14.70
55.2200	35.32	QP	-12.42	22.90	40.00	17.10
148.3400	34.80	QP	-6.50	28.30	43.50	15.20
210.4200	45.93	QP	-7.43	38.50	43.50	5.00
280.2600	34.51	QP	-3.61	30.90	46.00	15.10
441.2800	33.81	QP	-1.61	32.20	46.00	13.80

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Vertical



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Frequency (MHz)	Receiver Reading (dBµV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBµV/m)	Limit (dBμV/m)	Margin (dB)
30.0000	24.52	QP	1.08	25.60	40.00	14.40
140.5800	29.97	QP	-6.17	23.80	43.50	19.70
210.4200	43.23	QP	-7.43	35.80	43.50	7.70
280.2600	29.71	QP	-3.61	26.10	46.00	19.90
427.7000	35.91	QP	-1.91	34.00	46.00	12.00
455.8300	34.55	QP	-1.25	33.30	46.00	12.70

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802.11b

802.110	Re	eceiver	Rx A	ntenna	Cable	Amplifier	Corrected	·	
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)
			Lo	w Channe	1: 2412 M	Hz			
2412.00	64.82	PK	Н	28.12	1.81	0.00	94.75	N/A	N/A
2412.00	56.65	AV	Н	28.12	1.81	0.00	86.58	N/A	N/A
2412.00	65.94	PK	V	28.12	1.81	0.00	95.87	N/A	N/A
2412.00	57.83	AV	V	28.12	1.81	0.00	87.76	N/A	N/A
2390.00	25.53	PK	V	28.08	1.80	0.00	55.41	74.00	18.59
2390.00	14.47	AV	V	28.08	1.80	0.00	44.35	54.00	9.65
4824.00	48.49	PK	V	32.95	3.19	37.20	47.43	74.00	26.57
4824.00	34.41	AV	V	32.95	3.19	37.20	33.35	54.00	20.65
7236.00	47.79	PK	V	35.81	4.77	37.27	51.1	74.00	22.9
7236.00	33.64	AV	V	35.81	4.77	37.27	36.95	54.00	17.05
5972.50	48.49	PK	V	34.29	3.82	37.30	49.3	74.00	24.7
5972.50	34.64	AV	V	34.29	3.82	37.30	35.45	54.00	18.55
			Mid	ldle Chann	el: 2437 l	MHz			
2437.00	65.83	PK	Н	28.17	1.82	0.00	95.82	N/A	N/A
2437.00	57.64	AV	Н	28.17	1.82	0.00	87.63	N/A	N/A
2437.00	68.49	PK	V	28.17	1.82	0.00	98.48	N/A	N/A
2437.00	60.62	AV	V	28.17	1.82	0.00	90.61	N/A	N/A
4874.00	48.37	PK	V	33.05	3.26	37.21	47.47	74.00	26.53
4874.00	34.58	AV	V	33.05	3.26	37.21	33.68	54.00	20.32
7311.00	47.79	PK	V	36.01	4.64	37.36	51.08	74.00	22.92
7311.00	33.76	AV	V	36.01	4.64	37.36	37.05	54.00	16.95
5899.00	46.51	PK	V	34.26	3.79	37.22	47.34	74.00	26.66
5899.00	33.41	AV	V	34.26	3.79	37.22	34.24	54.00	19.76
6125.00	46.21	PK	V	34.28	4.06	37.27	47.28	74.00	26.72
6125.00	33.32	AV	V	34.28	4.06	37.27	34.39	54.00	19.61
				gh Channe					
2462.00	64.57	PK	Н	28.22	1.83	0.00	94.62	N/A	N/A
2462.00	56.58	AV	Н	28.22	1.83	0.00	86.63	N/A	N/A
2462.00	67.62	PK	V	28.22	1.83	0.00	97.67	N/A	N/A
2462.00	59.38	AV	V	28.22	1.83	0.00	89.43	N/A	N/A
2483.50	26.68	PK	V	28.27	1.84	0.00	56.79	74.00	17.21
2483.50	14.34	AV	V	28.27	1.84	0.00	44.45	54.00	9.55
4924.00	48.82	PK	V	33.15	3.27	37.22	48.02	74.00	25.98
4924.00	34.47	AV	V	33.15	3.27	37.22	33.67	54.00	20.33
7386.00	47.69	PK	V	36.20	4.51	37.46	50.94	74.00	23.06
7386.00	33.93	AV	V	36.20	4.51	37.46	37.18	54.00	16.82
5698.00	46.52	PK	V	34.18	3.68	37.35	47.03	74.00	26.97
5698.00	33.26	AV	V	34.18	3.68	37.35	33.77	54.00	20.23

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802.11g

	Receiver		Rx Antenna		Cable	Amplifier	Corrected		3.5	
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)	
Low Channel: 2412 MHz										
2412.00	65.37	PK	Н	28.12	1.81	0.00	95.3	N/A	N/A	
2412.00	55.46	AV	Н	28.12	1.81	0.00	85.39	N/A	N/A	
2412.00	67.89	PK	V	28.12	1.81	0.00	97.82	N/A	N/A	
2412.00	57.64	AV	V	28.12	1.81	0.00	87.57	N/A	N/A	
2390.00	29.78	PK	V	28.08	1.80	0.00	59.66	74.00	14.34	
2390.00	15.83	AV	V	28.08	1.80	0.00	45.71	54.00	8.29	
4824.00	48.62	PK	V	32.95	3.19	37.20	47.56	74.00	26.44	
4824.00	34.54	AV	V	32.95	3.19	37.20	33.48	54.00	20.52	
7236.00	47.76	PK	V	35.81	4.77	37.27	51.07	74.00	22.93	
7236.00	33.75	AV	V	35.81	4.77	37.27	37.06	54.00	16.94	
5965.00	46.38	PK	V	34.29	3.82	37.29	47.2	74.00	26.8	
5965.00	33.46	AV	V	34.29	3.82	37.29	34.28	54.00	19.72	
			Mid	ldle Chann	el: 2437 l	MHz				
2437.00	66.24	PK	Н	28.17	1.82	0.00	96.23	N/A	N/A	
2437.00	56.33	AV	Н	28.17	1.82	0.00	86.32	N/A	N/A	
2437.00	68.86	PK	V	28.17	1.82	0.00	98.85	N/A	N/A	
2437.00	58.49	AV	V	28.17	1.82	0.00	88.48	N/A	N/A	
4874.00	48.48	PK	V	33.05	3.26	37.21	47.58	74.00	26.42	
4874.00	34.72	AV	V	33.05	3.26	37.21	33.82	54.00	20.18	
7311.00	47.63	PK	V	36.01	4.64	37.36	50.92	74.00	23.08	
7311.00	33.75	AV	V	36.01	4.64	37.36	37.04	54.00	16.96	
5899.00	46.48	PK	V	34.26	3.79	37.22	47.31	74.00	26.69	
5899.00	33.46	AV	V	34.26	3.79	37.22	34.29	54.00	19.71	
6125.00	46.37	PK	V	34.28	4.06	37.27	47.44	74.00	26.56	
6125.00	33.52	AV	V	34.28	4.06	37.27	34.59	54.00	19.41	
		-	Hi	gh Channe		ſHz				
2462.00	65.56	PK	Н	28.22	1.83	0.00	95.61	N/A	N/A	
2462.00	55.73	AV	Н	28.22	1.83	0.00	85.78	N/A	N/A	
2462.00	68.48	PK	V	28.22	1.83	0.00	98.53	N/A	N/A	
2462.00	58.24	AV	V	28.22	1.83	0.00	88.29	N/A	N/A	
2483.50	32.17	PK	V	28.27	1.84	0.00	62.28	74.00	11.72	
2483.50	15.65	AV	V	28.27	1.84	0.00	45.76	54.00	8.24	
4924.00	48.59	PK	V	33.15	3.27	37.22	47.79	74.00	26.21	
4924.00	34.63	AV	V	33.15	3.27	37.22	33.83	54.00	20.17	
7386.00	47.85	PK	V	36.20	4.51	37.46	51.1	74.00	22.9	
7386.00	33.62	AV	V	36.20	4.51	37.46	36.87	54.00	17.13	
6256.00	46.35	PK	V	34.25	4.30	37.20	47.7	74.00	26.3	
6256.00	33.55	AV	V	34.25	4.30	37.20	34.9	54.00	19.1	

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802.11n ht20

Б	Re	eceiver	Rx Antenna		Cable	Amplifier	Corrected	~ A A.	3.5	
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)	
Low Channel: 2412 MHz										
2412.00	66.49	PK	Н	28.12	1.81	0.00	96.42	N/A	N/A	
2412.00	56.52	AV	Н	28.12	1.81	0.00	86.45	N/A	N/A	
2412.00	68.17	PK	V	28.12	1.81	0.00	98.1	N/A	N/A	
2412.00	58.34	AV	V	28.12	1.81	0.00	88.27	N/A	N/A	
2390.00	33.62	PK	V	28.08	1.80	0.00	63.5	74.00	10.5	
2390.00	16.58	AV	V	28.08	1.80	0.00	46.46	54.00	7.54	
4824.00	48.45	PK	V	32.95	3.19	37.20	47.39	74.00	26.61	
4824.00	34.69	AV	V	32.95	3.19	37.20	33.63	54.00	20.37	
7236.00	47.71	PK	V	35.81	4.77	37.27	51.02	74.00	22.98	
7236.00	33.68	AV	V	35.81	4.77	37.27	36.99	54.00	17.01	
5965.00	46.36	PK	V	34.29	3.82	37.29	47.18	74.00	26.82	
5965.00	33.35	AV	V	34.29	3.82	37.29	34.17	54.00	19.83	
	•		Mid	ldle Chann	el: 2437 l	MHz			•	
2437.00	66.75	PK	Н	28.17	1.82	0.00	96.74	N/A	N/A	
2437.00	56.39	AV	Н	28.17	1.82	0.00	86.38	N/A	N/A	
2437.00	69.27	PK	V	28.17	1.82	0.00	99.26	N/A	N/A	
2437.00	59.64	AV	V	28.17	1.82	0.00	89.63	N/A	N/A	
4874.00	48.36	PK	V	33.05	3.26	37.21	47.46	74.00	26.54	
4874.00	34.48	AV	V	33.05	3.26	37.21	33.58	54.00	20.42	
7311.00	47.83	PK	V	36.01	4.64	37.36	51.12	74.00	22.88	
7311.00	33.66	AV	V	36.01	4.64	37.36	36.95	54.00	17.05	
5899.00	46.36	PK	V	34.26	3.79	37.22	47.19	74.00	26.81	
5899.00	33.29	AV	V	34.26	3.79	37.22	34.12	54.00	19.88	
6125.00	46.26	PK	V	34.28	4.06	37.27	47.33	74.00	26.67	
6125.00	33.18	AV	V	34.28	4.06	37.27	34.25	54.00	19.75	
				gh Channe						
2462.00	66.87	PK	Н	28.22	1.83	0.00	96.92	N/A	N/A	
2462.00	56.69	AV	Н	28.22	1.83	0.00	86.74	N/A	N/A	
2462.00	69.08	PK	V	28.22	1.83	0.00	99.13	N/A	N/A	
2462.00	58.86	AV	V	28.22	1.83	0.00	88.91	N/A	N/A	
2483.50	32.15	PK	V	28.27	1.84	0.00	62.26	74.00	11.74	
2483.50	16.87	AV	V	28.27	1.84	0.00	46.98	54.00	7.02	
4924.00	48.57	PK	V	33.15	3.27	37.22	47.77	74.00	26.23	
4924.00	34.56	AV	V	33.15	3.27	37.22	33.76	54.00	20.24	
7386.00	47.94	PK	V	36.20	4.51	37.46	51.19	74.00	22.81	
7386.00	33.91	AV	V	36.20	4.51	37.46	37.16	54.00	16.84	
7265.00	46.52	PK	V	35.89	4.72	37.30	49.83	74.00	24.17	
7265.00	33.59	AV	V	35.89	4.72	37.30	36.9	54.00	17.1	

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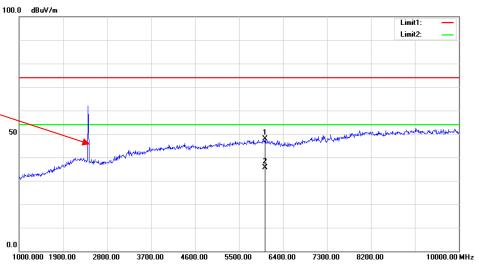
802.11n ht40

ъ	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)	
	Low Channel: 2422 MHz									
2422.00	64.62	PK	Н	28.14	1.81	0.00	94.57	N/A	N/A	
2422.00	53.76	AV	Н	28.14	1.81	0.00	83.71	N/A	N/A	
2422.00	66.89	PK	V	28.14	1.81	0.00	96.84	N/A	N/A	
2422.00	55.83	AV	V	28.14	1.81	0.00	85.78	N/A	N/A	
2390.00	38.62	PK	V	28.08	1.80	0.00	68.5	74.00	5.5	
2390.00	17.89	AV	V	28.08	1.80	0.00	47.77	54.00	6.23	
4844.00	48.85	PK	V	32.99	3.22	37.20	47.86	74.00	26.14	
4844.00	34.56	AV	V	32.99	3.22	37.20	33.57	54.00	20.43	
7266.00	47.57	PK	V	35.89	4.72	37.31	50.87	74.00	23.13	
7266.00	34.86	AV	V	35.89	4.72	37.31	38.16	54.00	15.84	
5965.00	46.35	PK	V	34.29	3.82	37.29	47.17	74.00	26.83	
5965.00	33.63	AV	V	34.29	3.82	37.29	34.45	54.00	19.55	
			Mid	ldle Chann	el: 2437 l	MHz				
2437.00	64.97	PK	Н	28.17	1.82	0.00	94.96	N/A	N/A	
2437.00	54.68	AV	Н	28.17	1.82	0.00	84.67	N/A	N/A	
2437.00	67.34	PK	V	28.17	1.82	0.00	97.33	N/A	N/A	
2437.00	57.16	AV	V	28.17	1.82	0.00	87.15	N/A	N/A	
4874.00	48.49	PK	V	33.05	3.26	37.21	47.59	74.00	26.41	
4874.00	34.54	AV	V	33.05	3.26	37.21	33.64	54.00	20.36	
7311.00	47.67	PK	V	36.01	4.64	37.36	50.96	74.00	23.04	
7311.00	33.64	AV	V	36.01	4.64	37.36	36.93	54.00	17.07	
5899.00	46.66	PK	V	34.26	3.79	37.22	47.49	74.00	26.51	
5899.00	33.42	AV	V	34.26	3.79	37.22	34.25	54.00	19.75	
6125.00	46.06	PK	V	34.28	4.06	37.27	47.13	74.00	26.87	
6125.00	33.33	AV	V	34.28	4.06	37.27	34.4	54.00	19.6	
			Hi	gh Channe	l: 2452 M	ПНz				
2452.00	64.58	PK	Н	28.20	1.83	0.00	94.61	N/A	N/A	
2452.00	54.62	AV	Н	28.20	1.83	0.00	84.65	N/A	N/A	
2452.00	66.43	PK	V	28.20	1.83	0.00	96.46	N/A	N/A	
2452.00	56.24	AV	V	28.20	1.83	0.00	86.27	N/A	N/A	
2483.50	37.48	PK	V	28.27	1.84	0.00	67.59	74.00	6.41	
2483.50	18.65	AV	V	28.27	1.84	0.00	48.76	54.00	5.24	
4904.00	48.46	PK	V	33.11	3.30	37.21	47.66	74.00	26.34	
4904.00	34.45	AV	V	33.11	3.30	37.21	33.65	54.00	20.35	
7356.00	47.94	PK	V	36.13	4.56	37.42	51.21	74.00	22.79	
7356.00	33.55	AV	V	36.13	4.56	37.42	36.82	54.00	17.18	
5489.00	46.48	PK	V	34.08	3.55	37.34	46.77	74.00	27.23	
5489.00	33.41	AV	V	34.08	3.55	37.34	33.7	54.00	20.3	

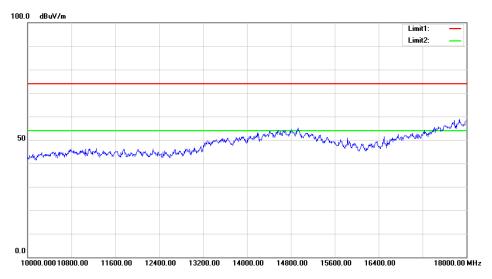
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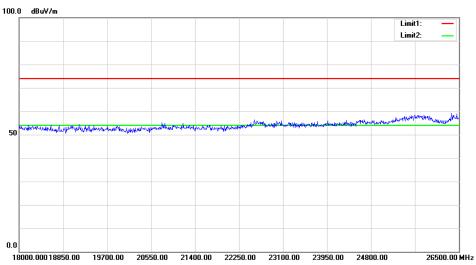
Worst plots(802.11n ht40 low channel) Horizontal

Fundamental Test with Band Rejection Filter



Report No.: RDG171205003-00



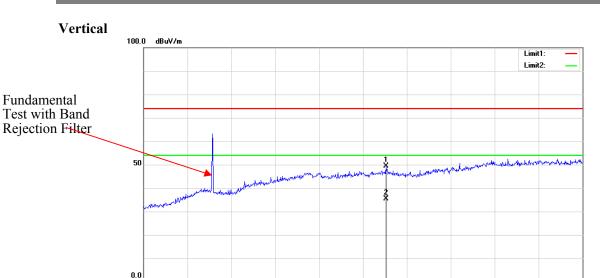


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1000.000 1900.00

2800.00

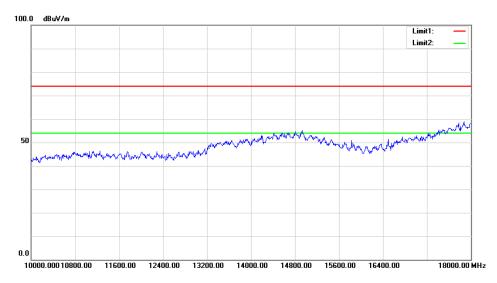
3700.00



4600.00

Report No.: RDG171205003-00

10000.00 MHz

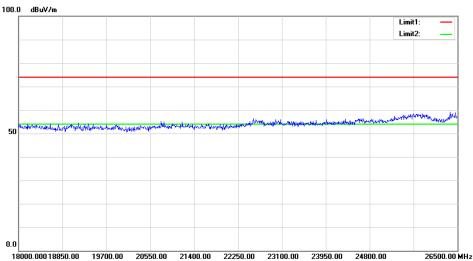


5500.00

6400.00

7300.00

8200.00



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

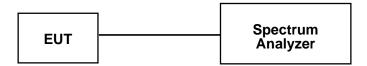
Applicable Standard

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

Report No.: RDG171205003-00

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	FSU 26	200256	2016-12-08	2017-12-08
Unknown	RF Cable	Unknown	C-4	Each Time	/

^{*} 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:	23.3 °C		
Relative Humidity:	41 %		
ATM Pressure:	101.2kPa		

^{*} The testing was performed by Nami Quan on 2017-12-07.

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Test Mode: Transmitting

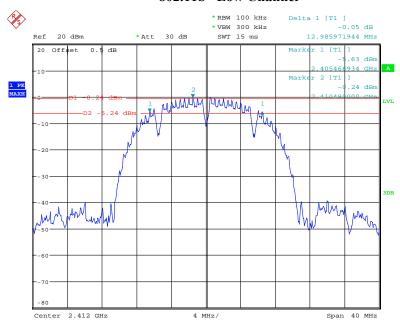
Test Result: Compliant

please refer to the following table and plots.

Test mode	Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (MHz)
	Low	2412	12.99	≥0.5
802.11b	Middle	2437	12.51	≥0.5
	High	2462	12.99	≥0.5
	Low	2412	16.27	≥0.5
802.11g	Middle	2437	16.19	≥0.5
	High	2462	16.27	≥0.5
	Low	2412	16.75	≥0.5
802.11n ht20	Middle	2437	16.91	≥0.5
	High	2462	16.67	≥0.5
	Low	2422	35.59	≥0.5
802.11n ht40	Middle	2437	35.27	≥0.5
	High	2452	35.27	≥0.5

Report No.: RDG171205003-00

802.11b -Low Channel

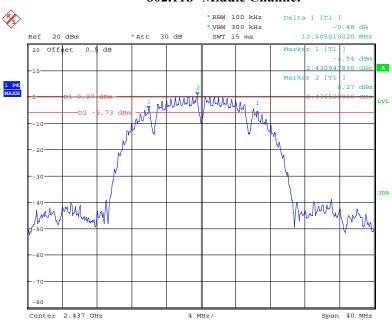


Date: 7.DEC.2017 11:06:42

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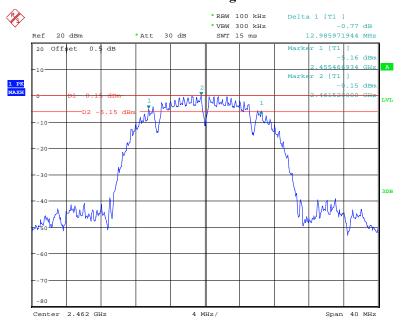
802.11b- Middle Channel

Report No.: RDG171205003-00



Date: 7.DEC.2017 11:11:11

802.11b -High Channel

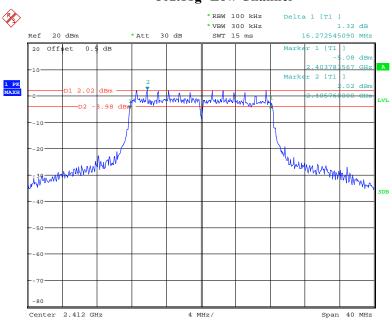


Date: 7.DEC.2017 11:12:43

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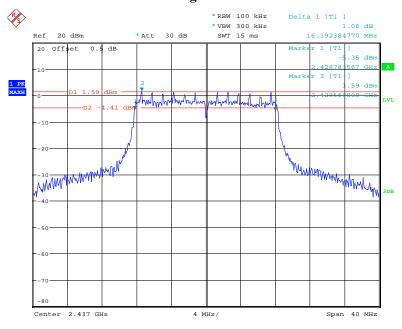
802.11g- Low Channel

Report No.: RDG171205003-00



Date: 7.DEC.2017 13:11:32

802.11g - Middle Channel

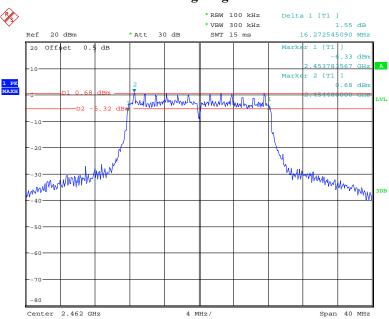


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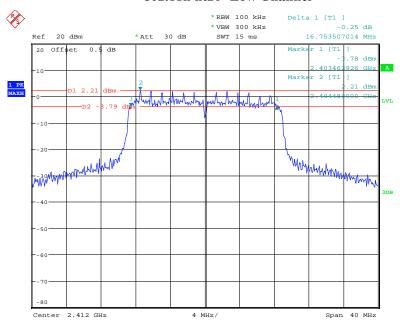
802.11g- High Channel

Report No.: RDG171205003-00



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802.11n ht20- Low Channel

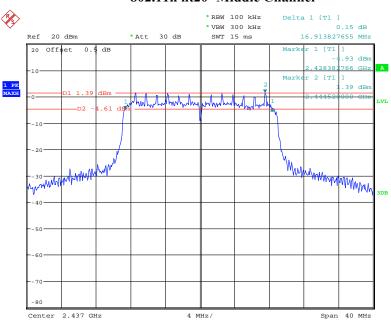


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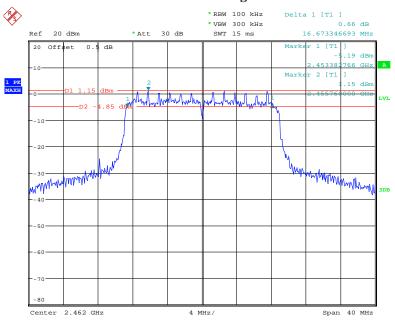
802.11n ht20- Middle Channel

Report No.: RDG171205003-00



Date: 7.DEC.2017 13:26:03

802.11n ht20- High Channel

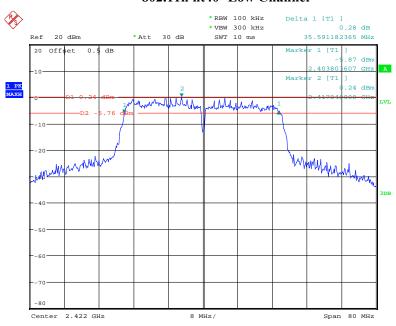


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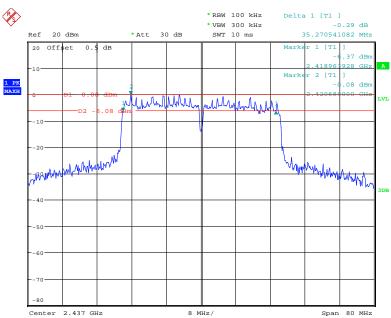
802.11n ht40- Low Channel

Report No.: RDG171205003-00



Date: 7.DEC.2017 13:28:49

802.11n ht40 - Middle Channel

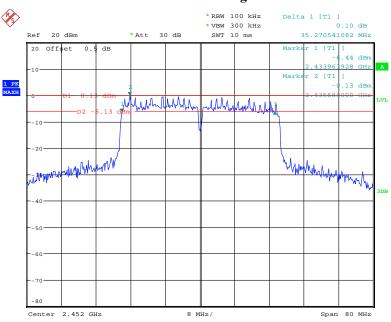


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802.11n ht40 - High Channel

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Date: 7.DEC.2017 13:32:45

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

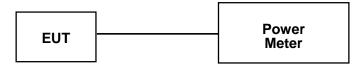
Applicable Standard

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

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Test Procedure

- 1. Place the EUT on a bench and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to test equipment.
- 3. Add a correction factor to the display.
- 4. Set the power Meter to test Peak output power, record the result as peak power.



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	Wideband Power Sensor	N1921A	MY54210016	2017-11-03	2018-11-03
Agilent	P-Series Power Meter	N1912A	MY5000448	2017-11-03	2018-11-03
Unknown	RF Cable	Unknown	C-4	Each Time	/

^{*} 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).

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Test Data

Environmental Conditions

Temperature:	23.3 °C	
Relative Humidity:	41 %	
ATM Pressure:	101.2 kPa	

^{*} The testing was performed by Nami Quan on 2017-12-07.

Test Mode: Transmitting

 ${\it Test Result: Compliant. Please \ refer \ to \ the \ following \ table.}$

Test mode	Channel	Frequency (MHz)	Max Peak Conducted Output Power (dBm)	Max average Conducted Output Power (dBm)	Limit (dBm)
	Low	2412	14.08	9.25	30
802.11b	Middle	2437	13.51	9.58	30
	High	2462	13.5	9.21	30
	Low	2412	20.72	11.83	30
802.11g	Middle	2437	20.28	11.31	30
	High	2462	19.88	10.89	30
002 11	Low	2412	21.05	11.92	30
802.11n	Middle	2437	20.07	11.74	30
ht20	High	2462	20.08	11.3	30
002.11	Low	2422	22.47	12.83	30
802.11n	Middle	2437	21.5	12.4	30
ht40	High	2452	21.46	12.37	30

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

Report No.: RDG171205003-00

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
R&S	Spectrum Analyzer	FSU 26	200256	2016-12-08	2017-12-08
Unknown	RF Cable	Unknown	C-4	Each Time	/

^{*} 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).

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Test Data

Environmental Conditions

Temperature:	23.8 °C	
Relative Humidity:	41 %	
ATM Pressure:	101.2 kPa	

^{*} The testing was performed by Nami Quan on 2017-12-07.

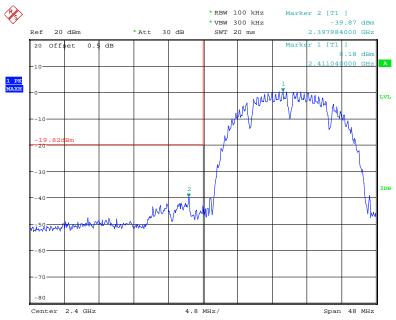
Test mode: Transmitting

Test Result: Compliant. The emissions out of band was under limit 20dBc, please refer to the below plots.

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802.11b: Band Edge, Left Side

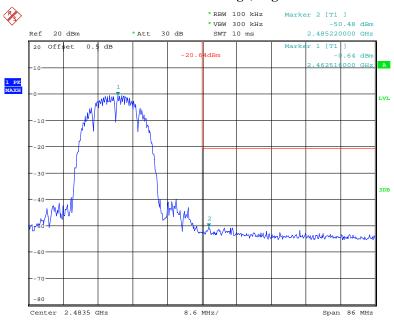


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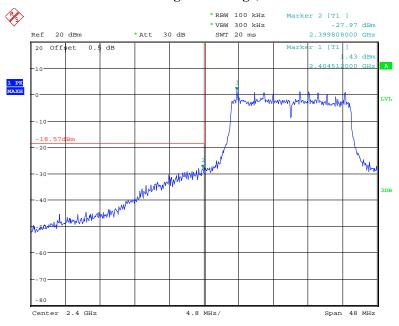
802.11b: Band Edge, Right Side

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Date: 7.DEC.2017 11:14:03

802.11g: Band Edge, Left Side

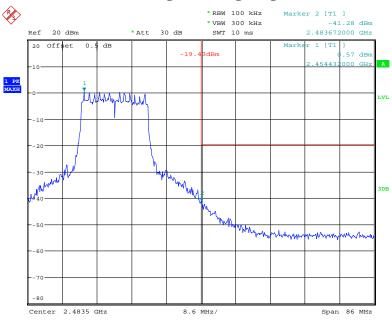


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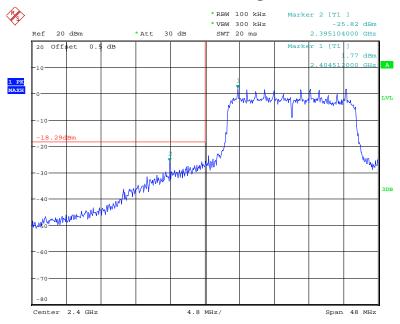
802.11g: Band Edge, Right Side

Report No.: RDG171205003-00



Date: 7.DEC.2017 13:16:18

802.11n ht20 Band Edge, Left Side

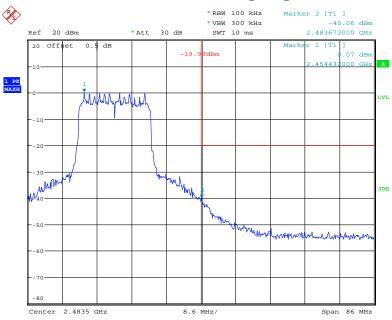


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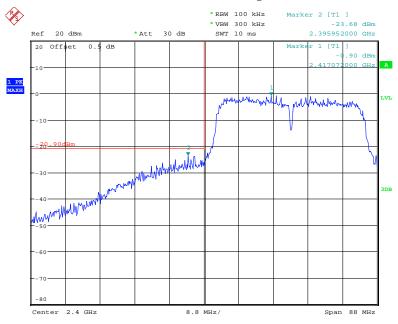
802.11n ht20 Band Edge, Right Side

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Date: 7.DEC.2017 13:18:33

802.11n ht40 Band Edge, Left Side

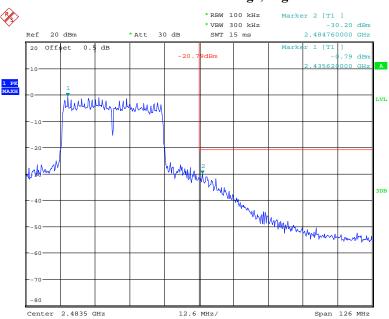


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802.11n ht40 Band Edge, Right Side

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Date: 7.DEC.2017 13:34:21

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FCC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

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

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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	FSU 26	200256	2016-12-08	2017-12-08
Unknown	RF Cable	Unknown	C-4	Each Time	/

^{*} 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:	23.3 °C	
Relative Humidity:	41 %	
ATM Pressure:	101.2 kPa	

^{*} The testing was performed by Nami Quan on 2017-12-07.

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Test Mode: Transmitting

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

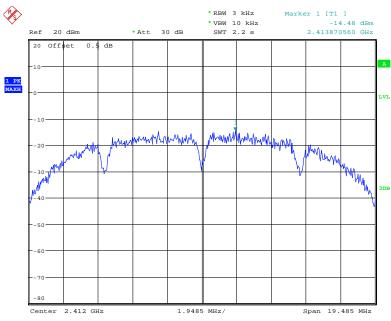
Test mode	Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)
	Low	2412	-14.48	≤8
802.11b	Middle	2437	-14.5	≤8
	High	2462	-14.81	≤8
802.11g	Low	2412	-12.85	≤8
	Middle	2437	-13.42	≤8
	High	2462	-13.44	≤8
	Low	2412	-10.86	≤6
802.11n ht20	Middle	2437	-14.12	≤6
	High	2462	-14.07	≤6
802.11n ht40	Low	2422	-14.33	≤6
	Middle	2437	-14.56	≤6
	High	2452	-15.33	≤6

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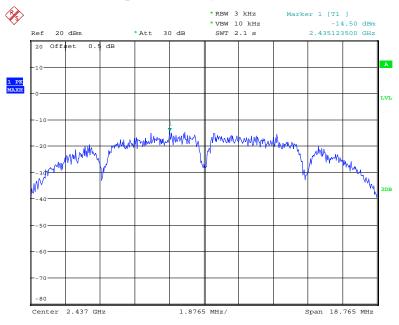
Power Spectral Density, 802.11b, Low Channel

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Date: 7.DEC.2017 11:07:35

Power Spectral Density, 802.11b, Middle Channel

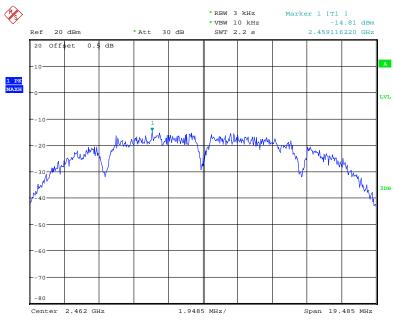


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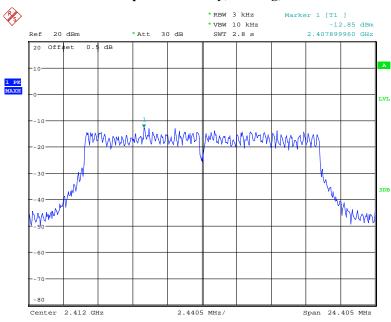
Power Spectral Density, 802.11b, High Channel

Report No.: RDG171205003-00



Date: 7.DEC.2017 11:13:34

Power Spectral Density, 802.11g, Low Channel

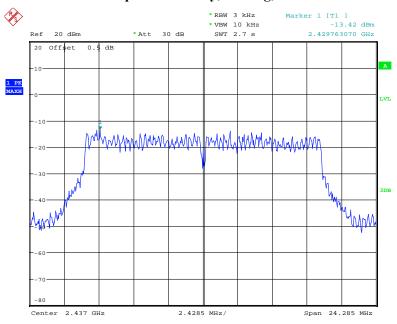


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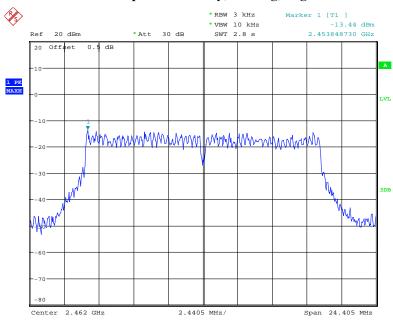
Power Spectral Density, 802.11g, Middle Channel

Report No.: RDG171205003-00



Date: 7.DEC.2017 13:14:12

Power Spectral Density, 802.11g, High Channel

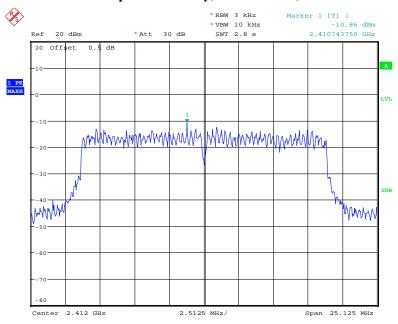


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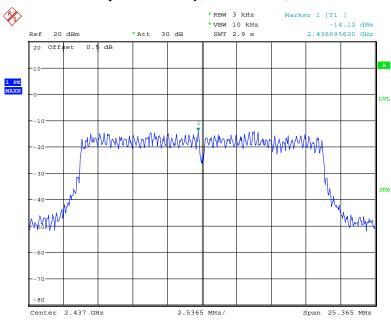
Power Spectral Density, 802.11n ht20, Low Channel

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Power Spectral Density, 802.11n ht20, Middle Channel

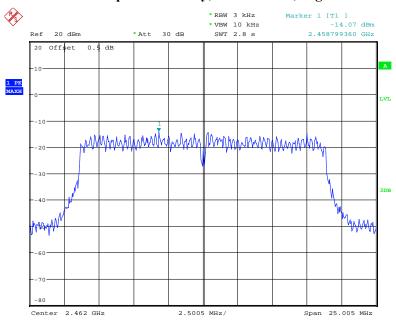


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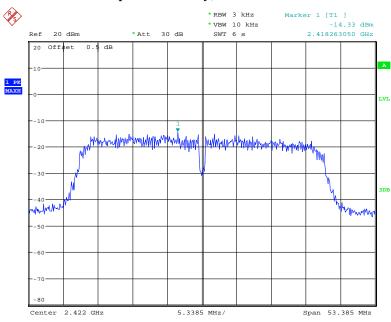
Power Spectral Density, 802.11n ht20, High Channel

Report No.: RDG171205003-00



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Power Spectral Density, 802.11n ht40 Low Channel

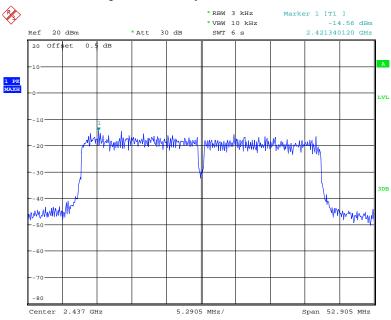


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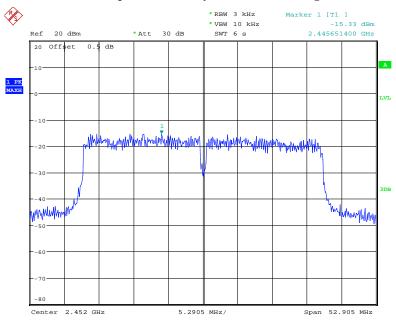
Power Spectral Density, 802.11n ht40 Middle Channel

Report No.: RDG171205003-00



Date: 7.DEC.2017 13:32:02

Power Spectral Density, 802.11n ht40 High Channel



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

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