



FCC PART 15.247 TEST REPORT

For

Shandong USR IOT Technology Limited

Floor 11, Building 1, No. 1166 Xinluo Street, Gaoxin Qu, Jinan, Shandong, China

FCC ID: 2AJDAUSR-G806

Product Type: Report Type: Original Report 4G Router

Report Number: RSZ171011001-00A

Report Date: 2017-12-15

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The Shandong USR IOT Technology Limited's product, model number: USR-G806 (FCC ID: 2AJDAUSR-G806) or the "EUT" in this report was a 4G Router, which was measured approximately: 110 mm (L) \times 99 mm (W) \times 30 mm (H), rated with input voltage: DC 12V from adapter.

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Adapter Information: Model: SOY-1200100US

Input: AC 100-240V, 50/60Hz, 0.3A

Output: DC 12V, 1.0 A

Notes: This series products model: USR-G800, USR-G807, USR-G808, USR-G781, USR-G805, USR-G809, USR-G786, USR-G788 and USR-G806 are electrically identical, and only are different for model name. Model USR-G806 was selected for fully testing, the detailed information can be referred to the declaration which was stated and guaranteed by the applicant.

*All measurement and test data in this report was gathered from production sample serial number: 1702223 (Assigned by BACL). The EUT supplied by the applicant was received on 2017-10-11.

Objective

This report is prepared on behalf of *Shandong USR IOT Technology Limited* in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission's 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 22H & 24E&27 PCB submissions with FCC ID: 2AJDAUSR-G806

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 at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

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Measurement Uncertainty

Parameter	uncertainty
Occupied Channel Bandwidth	±5%
RF Output Power with Power meter	±0.5dB
RF conducted test with spectrum	±1.5dB
AC Power Lines Conducted Emissions	±1.95dB
All emissions, radiated	±4.88dB
Temperature	±3°C
Humidity	±6%
Supply voltages	±0.4%

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Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F., West Wing, Third Phase of Wanli Industrial Building, Shihua Road, Futian Free Trade Zone, Shenzhen, Guangdong, China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 382179, the FCC Designation No. : CN5001.

The test site has been registered with ISED Canada under ISED Canada Registration Number 3062B.

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SYSTEM TEST CONFIGURATION

Description of Test Configuration

For 802.11b, 802.11g and 802.11n-HT20 mode, 13 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432	12	2467
6	2437	13	2472
7	2442	/	/

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

For 802.11n-HT40 mode, 9 channels are provided to testing:

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

EUT was tested with Channel 1, 5 and 9.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

"Xshell5" and "QATool_Dbg.exe" exercise software was used.

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

802.11b: Data rate: 1 Mbps, Power level: 10 802.11g: Data rate: 6 Mbps, Power level: 11 802.11n-HT20: Data rate: MCS0, Power level: 11 802.11n-HT40: Data rate: MCS0, Power level: 13

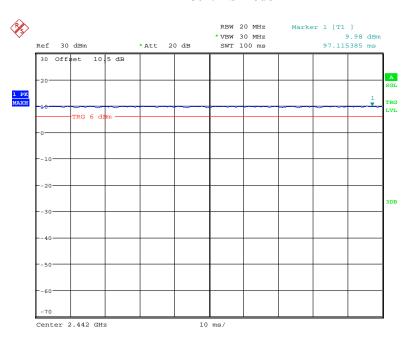
Pre-scan with all the date rates, the above date rate is the worst case for Wi-Fi test.

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Duty cycle

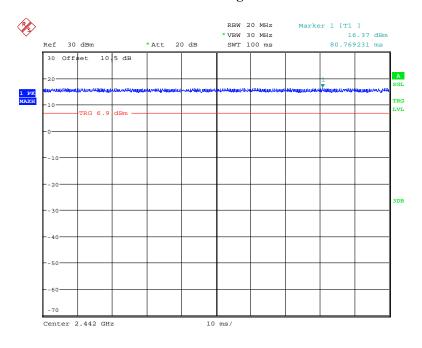
802.11b mode

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Date: 15.DEC.2017 17:08:59

802.11g mode

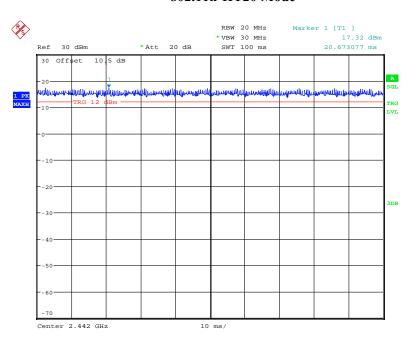


Date: 15.DEC.2017 17:06:52

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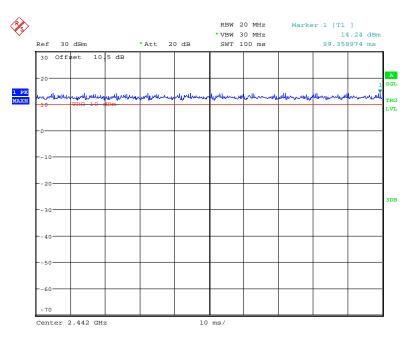
802.11n-HT20 Mode

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Date: 15.DEC.2017 17:07:40

802.11n-HT40 Mode



Date: 15.DEC.2017 17:08:07

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

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Acer	Laptop	MS2376	NXMF7CN0013360957F6600

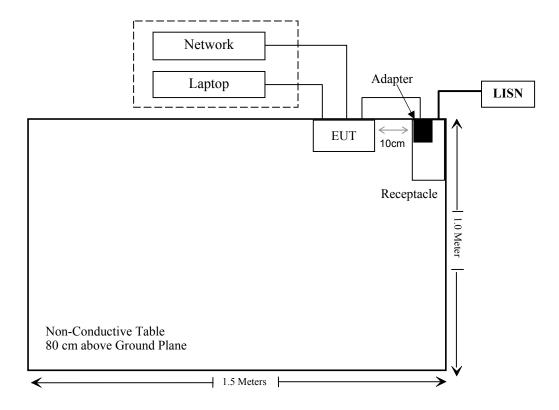
External I/O Cable

Cable Description	Length (m)	From Port	То
Un-Shielding Detachable DC Cable	1.0	EUT	Adapter
Un-shielding Detachable RJ45 cable	1.5	EUT	Laptop
Un-shielding Detachable RJ45 cable	1.5	EUT	Network

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Block Diagram of Test Setup

For conducted emission



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SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§ 15.247 (i), §1.1307 (b) (1) & §2.1091	Maximum permissible exposure (MPE)	Compliance
§15.203	Antenna Requirement	Compliance
§15.207 (a)	AC Line Conducted Emissions	Compliance
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliance
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliance
§15.247(b)(3)	Maximum Conducted Output Power	Compliance
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliance
§15.247(e)	Power Spectral Density	Compliance

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TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
	Condu	cted Emissions	Test		
Rohde & Schwarz	EMI Test Receiver	ESCS30	100176	2017-08-04	2018-08-04
Rohde & Schwarz	LISN	ENV216	3560.6650.12- 101613-Yb	2016-12-07	2017-12-07
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2017-11-19	2018-05-21
Rohde & Schwarz	CE Test software	EMC 32	V8.53.0	NCR	NCR
N/A	Conducted Emission Cable	N/A	UF A210B-1- 0720-504504	2017-11-12	2018-05-12
	Radia	ated Emission T	est		
Sunol Sciences	Horn Antenna	DRH-118	A052604	2014-12-29	2017-12-28
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2017-04-24	2018-04-24
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2017-05-21	2018-05-21
HP	Amplifier	HP8447E	1937A01046	2017-11-19	2018-05-21
Sunol Sciences	Broadband Antenna	JB1	A040904-2	2014-12-17	2017-12-16
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2016-12-07	2017-12-07
Ducommun technologies	RF Cable	UFA210A-1- 4724-30050U	MFR64369 223410-001	2017-11-19	2018-05-21
Ducommun technologies	RF Cable	104PEA	218124002	2017-11-19	2018-05-21
Ducommun technologies	RF Cable	RG-214	1	2017-11-19	2018-05-21
Ducommun technologies	RF Cable	RG-214	2	2017-11-22	2018-05-22
Ducommun Technologies	Horn Antenna	ARH-4223- 02	1007726-04	2014-12-29	2017-12-28
Ducommun Technologies	Pre-amplifier	ALN- 22093530-01	991373-01	2017-08-03	2018-08-03
Sinoscite	Band Reject Filter	BSF2402- 2480MN- 0898-001	N/A	2017-05-21	2018-05-21

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Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
	RF	Conducted Tes	t		
Agilent	P-Series Power Meter	N1912A	MY5000448	2016-12-05	2017-12-05
Agilent	Wideband Power Sensor	N1921A	MY54210016	2016-12-05	2017-12-05
WEINSCHEL	10dB Attenuator	5324	AU 3842	2017-05-23	2017-11-22
Rohde & Schwarz	SPECTRUM ANALYZER	FSU26	200120	2016-12-05	2017-12-05
Ducommun technologies	RF Cable	RG-214	3	2017-11-22	2018-05-22

^{*} **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).

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FCC§15.247 (i), §1.1307 (b) (1) & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart 15.247 (i) and subpart 1.1307 (b)(1), 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

Limits for General Population/Uncontrolled Exposure

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	Limits for General Population/Uncontrolled Exposure					
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (Minutes)		
0.3-1.34	614	1.63	*(100)	30		
1.34-30	824/f	2.19/f	$*(180/f^2)$	30		
30-300	27.5	0.073	0.2	30		
300-1500	/	/	f/1500	30		
1500-100,000	/	/	1.0	30		

f = frequency in MHz

Result

Calculated Formulary:

Predication of MPE limit at a given distance

$$S = \frac{PG}{4\pi R^2}$$

S = 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)

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_{i} \frac{S_{i}}{S_{Limit,i}} \le 1$$

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^{* =} Plane-wave equivalent power density

Note: PCB Data comes from the PCB report.

Simultaneous transmitting consideration for PCB & WIFI:

$$\sum_{i} \frac{S_{i}}{S_{Limit,i}} = 0.112/0.47 + 0.013/1.0 = 0.251 < 1.0$$

Note: To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliance

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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.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT has an external antenna arrangement, which with a non-standard jack and the antenna gain is 3 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliance.

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FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207

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.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

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

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

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

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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:

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Margin = Limit – Corrected Amplitude

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207,

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

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

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

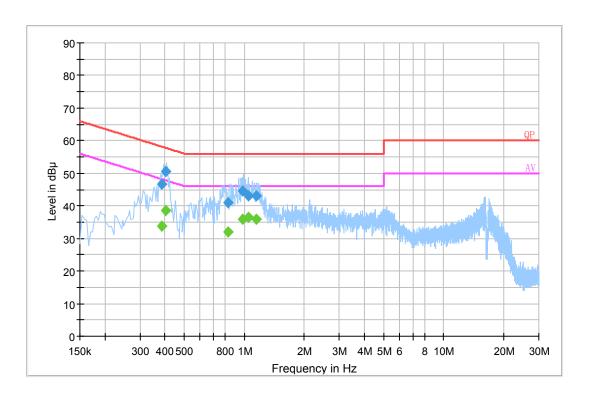
Temperature:	25 ℃
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

The testing was performed by Kobe Li on 2017-12-06.

EUT operation mode: Transmitting

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AC 120 V/60 Hz, Line:

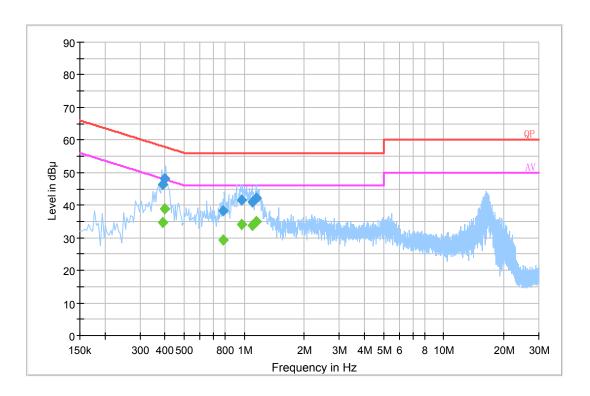


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Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
0.384270	46.6	20.2	58.2	11.6	QP
0.403910	50.6	20.2	57.8	7.2	QP
0.833430	41.0	20.0	56.0	15.0	QP
0.987090	44.6	20.1	56.0	11.4	QP
1.046310	42.9	20.1	56.0	13.1	QP
1.148750	42.9	20.1	56.0	13.1	QP
0.384270	33.8	20.2	48.2	14.4	Ave.
0.403910	38.7	20.2	47.8	9.1	Ave.
0.833430	32.0	20.0	46.0	14.0	Ave.
0.987090	35.9	20.1	46.0	10.1	Ave.
1.046310	36.4	20.1	46.0	9.6	Ave.
1.148750	35.8	20.1	46.0	10.2	Ave.

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AC 120V/60 Hz, Neutral:



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Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
0.391790	46.4	20.2	58.0	11.6	QP
0.399970	48.0	20.2	57.9	9.9	QP
0.782090	38.2	20.0	56.0	17.8	QP
0.971630	41.5	20.1	56.0	14.5	QP
1.101530	40.9	20.1	56.0	15.1	QP
1.152750	42.2	20.1	56.0	13.8	QP
0.391790	34.6	20.2	48.0	13.4	Ave.
0.399970	39.0	20.2	47.9	8.9	Ave.
0.782090	29.4	20.0	46.0	16.6	Ave.
0.971630	34.0	20.1	46.0	12.0	Ave.
1.101530	33.9	20.1	46.0	12.1	Ave.
1.152750	35.1	20.1	46.0	10.9	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

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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 1 GHz:



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Above 1GHz:



The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

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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:

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Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
	1MHz	3 MHz	/	PK
Above 1 GHz	1MHz	10 Hz Note 1	/	Average
	1MHz	>1/T Note 2	/	Average

Note 1: when duty cycle is no less than 98% Note 2: when duty cycle is less than 98%

Test Procedure

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

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

Corrected Amplitude & Margin Calculation

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

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>.

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

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

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.

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Test Data

Environmental Conditions

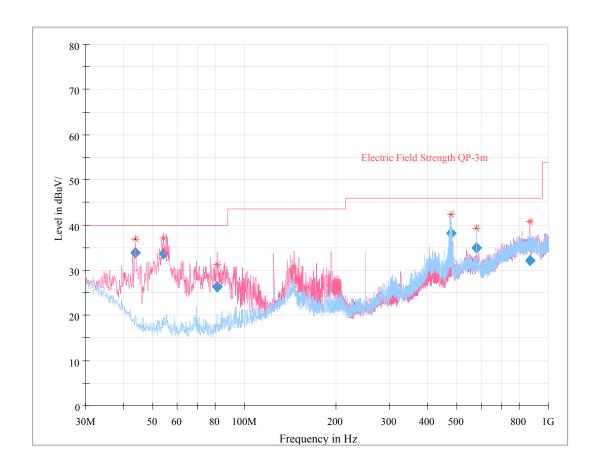
Temperature:	25 ℃
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

The testing was performed by Kobe Li on 2017-12-03.

EUT operation mode: Transmitting

Worst case as below

30 MHz~1 GHz: (802.11n20 Mode, High channel)



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Frequency (MHz)	Corrected Amplitude (dBµV/m)	Antenna height (cm)	Antenna Polarity	Turntable position (degree)	Correction Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
43.814000	33.89	111.0	V	227.0	-9.0	40.00	6.11
54.213375	33.64	100.0	V	241.0	-11.4	40.00	6.36
81.183375	26.37	108.0	V	0.0	-11.3	40.00	13.63
478.248250	38.27	107.0	Н	239.0	1.8	46.00	7.73
579.981750	34.87	194.0	Н	346.0	4.1	46.00	11.13
869.986000	32.14	107.0	V	283.0	9.3	46.00	13.86

30 MHz-25 GHz:

802.11b Mode:

Frequency	Re	Receiver ,		Rx Antenna			Corrected Amplitude	FCC Part 15.247/205/209				
(MHz)	Reading (dBµV)	PK/QP/Ave.	Degree	Height (m)	Polar (H/V)	Factor (dB)	(dRuV/m)	Limit (dBµV/m)	Margin (dB)			
	Low Channel (2412 MHz)											
2412.00	64.63	PK	29	2.0	Н	33.92	98.55	/	/			
2412.00	58.51	Ave.	29	2.0	Н	33.92	92.43	/	/			
2412.00	67.26	PK	129	1.1	V	33.92	101.18	/	/			
2412.00	61.51	Ave.	129	1.1	V	33.92	95.43	/	/			
2325.23	26.73	PK	349	2.1	V	33.83	60.56	74	13.44			
2325.23	13.79	Ave.	349	2.1	V	33.83	47.62	54	6.38			
2486.55	27.35	PK	175	1.8	V	34.08	61.43	74	12.57			
2486.55	13.88	Ave.	175	1.8	V	34.08	47.96	54	6.04			
4824.00	44.13	PK	80	1.8	V	5.84	49.97	74	24.03			
4824.00	30.29	Ave.	80	1.8	V	5.84	36.13	54	17.87			

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Frequency	Re	Receiver		Rx An	itenna		Corrected		C Part /205/209
(MHz)	Reading (dBµV)	PK/QP/Ave.		Height (m)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
			Middle C	Channel	(2442N	(Hz)			
2442.00	66.15	PK	215	1.5	Н	33.92	100.07	/	/
2442.00	60.32	Ave.	215	1.5	Н	33.92	94.24	/	/
2442.00	68.72	PK	144	2.5	V	33.92	102.64	/	/
2442.00	62.97	Ave.	144	2.5	V	33.92	96.89	/	/
4884.00	45.32	PK	131	1.3	V	6.21	51.53	74	22.47
4884.00	31.56	Ave.	131	1.3	V	6.21	37.77	54	16.23
			High Ch	nannel (2	2472 M	Hz)			
2472.00	64.01	PK	298	2.5	Н	34.08	98.09	/	/
2472.00	59.62	Ave.	298	2.5	Н	34.08	93.70	/	/
2472.00	68.71	PK	222	2.4	V	34.08	102.79	/	/
2472.00	63.66	Ave.	222	2.4	V	34.08	97.74	/	/
2365.47	26.63	PK	335	1.6	V	33.92	60.55	74	13.45
2365.47	13.13	Ave.	335	1.6	V	33.92	47.05	54	6.95
2495.07	27.32	PK	326	1.4	V	34.08	61.40	74	12.60
2495.07	13.58	Ave.	326	1.4	V	34.08	47.66	54	6.34
4944.00	45.66	PK	89	1.8	V	6.21	51.87	74	22.13
4944.00	31.41	Ave.	89	1.8	V	6.21	37.62	54	16.38

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802.11g Mode:

Frequency	Frequency Receiver		Turntable	Rx Ar	itenna		Corrected		C Part /205/209
(MHz)	Reading (dBµV)	PK/QP/Ave.	Degree Height (m)		Polar (H/V)	Factor (dB)	Amplitude (dBμV/m)	Limit (dBµV/m)	Margin (dB)
			Low Ch	annel (2	2412 M	Hz)			
2412.00	65.21	PK	115	2.5	Н	33.92	99.13	/	/
2412.00	55.62	Ave.	115	2.5	Н	33.92	89.54	/	/
2412.00	70.67	PK	4	2.0	V	33.92	104.59	/	/
2412.00	59.66	Ave.	4	2.0	V	33.92	93.58	/	/
2335.81	27.17	PK	60	1.3	V	33.83	61.00	74	13.00
2335.81	13.38	Ave.	60	1.3	V	33.83	47.21	54	6.79
2486.39	26.95	PK	198	1.6	V	34.08	61.03	74	12.97
2486.39	13.12	Ave.	198	1.6	V	34.08	47.20	54	6.80
4824.00	45.34	PK	45	2.1	V	5.84	51.18	74	22.82
4824.00	31.57	Ave.	45	2.1	V	5.84	37.41	54	16.59
			Middle C	hannel	(2442N	(Hz)			
2442.00	66.74	PK	21	2.0	Н	33.92	100.66	/	/
2442.00	55.62	Ave.	21	2.0	Н	33.92	89.54	/	/
2442.00	69.22	PK	226	2.5	V	33.92	103.14	/	/
2442.00	60.07	Ave.	226	2.5	V	33.92	93.99	/	/
4884.00	44.72	PK	274	2.4	V	6.21	50.93	74	23.07
4884.00	30.83	Ave.	274	2.4	V	6.21	37.04	54	16.96

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Frequency	Re	eceiver	Turntable	Rx Ar	itenna		Corrected	15.247	C Part //205/209
(MHz)	Reading (dBµV)	PK/QP/Ave.	Degree	Height (m)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
			High Ch	annel (2472 M	Hz)			
2472.00	64.59	PK	230	2.4	Н	34.08	98.67	/	/
2472.00	51.48	Ave.	230	2.4	Н	34.08	85.56	/	/
2472.00	68.67	PK	325	2.2	V	34.08	102.75	/	/
2472.00	57.75	Ave.	325	2.2	V	34.08	91.83	/	/
2326.51	27.21	PK	310	1.7	V	33.83	61.04	74	12.96
2326.51	13.46	Ave.	310	1.7	V	33.83	47.29	54	6.71
2483.56	27.85	PK	141	1.7	V	34.08	61.93	74	12.07
2483.56	14.83	Ave.	141	1.7	V	34.08	48.91	54	5.09
4944.00	43.52	PK	220	2.1	V	6.21	49.73	74	24.27
4944.00	29.38	Ave.	220	2.1	V	6.21	35.59	54	18.41

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802.11n-HT20 Mode:

Frequency	Re	eceiver	Turntable	Rx Ar	itenna		Corrected	FCC Part 15.247/205/209	
(MHz)	Reading (dBµV)		Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)		
			Low Ch	annel (2	2412 M	Hz)			
2412.00	67.47	PK	229	2.5	Н	33.92	101.39	/	/
2412.00	54.12	Ave.	229	2.5	Н	33.92	88.04	/	/
2412.00	68.03	PK	103	1.9	V	33.92	101.95	/	/
2412.00	57.14	Ave.	103	1.9	V	33.92	91.06	/	/
2388.65	26.85	PK	5	2.1	V	33.92	60.77	74	13.23
2388.65	13.21	Ave.	5	2.1	V	33.92	47.13	54	6.87
2489.65	27.25	PK	164	2.1	V	34.08	61.33	74	12.67
2489.65	13.46	Ave.	164	2.1	V	34.08	47.54	54	6.46
4824.00	44.37	PK	145	1.6	V	5.84	50.21	74	23.79
4824.00	30.28	Ave.	145	1.6	V	5.84	36.12	54	17.88
			Middle C	Channel	(2442N	(Hz)			
2442.00	65.61	PK	206	1.8	Н	33.92	99.53	/	/
2442.00	53.17	Ave.	206	1.8	Н	33.92	87.09	/	/
2442.00	67.76	PK	316	2.1	V	33.92	101.68	/	/
2442.00	55.72	Ave.	316	2.1	V	33.92	89.64	/	/
4884.00	44.81	PK	147	1.8	V	6.21	51.02	74	22.98
4884.00	30.54	Ave.	147	1.8	V	6.21	36.75	54	17.25

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Frequency	Re	Receiver ,		Rx Ar	itenna		Corrected Amplitude	FCC Part 15.247/205/209	
(MHz)	Reading (dBµV)	PK/QP/Ave.	Degree	8 8	Polar (H/V)	Factor (dB)	(dRuV/m)	Limit (dBµV/m)	Margin (dB)
			High Ch	nannel (2472 M	Hz)			
2472.00	64.33	PK	14	1.2	Н	34.08	98.41	/	/
2472.00	54.58	Ave.	14	1.2	Н	34.08	88.66	/	/
2472.00	69.22	PK	348	2.0	V	34.08	103.30	/	/
2472.00	57.35	Ave.	348	2.0	V	34.08	91.43	/	/
2352.16	26.78	PK	232	1.6	V	33.92	60.70	74	13.30
2352.16	13.05	Ave.	232	1.6	V	33.92	46.97	54	7.03
2484.02	32.56	PK	335	1.7	V	34.08	66.64	74	7.36
2484.02	16.89	Ave.	335	1.7	V	34.08	50.97	54	3.03
4944.00	42.58	PK	280	1.4	V	6.21	48.79	74	25.21
4944.00	28.66	Ave.	280	1.4	V	6.21	34.87	54	19.13

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802.11n-HT40 Mode:

Frequency (MHz)	Receiver		Turntable	Rx Antenna			Corrected	FCC Part 15.247/205/209	
	Reading (dBµV)	PK/QP/Ave.	Degree	Height (m)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)		Margin (dB)
Low Channel (2422 MHz)									
2422.00	65.83	PK	216	1.7	Н	33.92	99.75	/	/
2422.00	53.61	Ave.	216	1.7	Н	33.92	87.53	/	/
2422.00	71.05	PK	126	2.3	V	33.92	104.97	/	/
2422.00	60.24	Ave.	126	2.3	V	33.92	94.16	/	/
2389.19	31.64	PK	175	1.3	V	33.92	65.56	74	8.44
2389.19	16.01	Ave.	175	1.3	V	33.92	49.93	54	4.07
2488.64	27.33	PK	15	2.0	V	34.08	61.41	74	12.59
2488.64	13.54	Ave.	15	2.0	V	34.08	47.62	54	6.38
4844.00	43.58	PK	25	1.9	V	5.84	49.42	74	24.58
4844.00	29.51	Ave.	25	1.9	V	5.84	35.35	54	18.65
			Middle C	Channel	(2442N	MHz)			
2442.00	67.03	PK	207	1.2	Н	33.92	100.95	/	/
2442.00	55.11	Ave.	207	1.2	Н	33.92	89.03	/	/
2442.00	69.92	PK	278	1.9	V	33.92	103.84	/	/
2442.00	58.41	Ave.	278	1.9	V	33.92	92.33	/	/
4884.00	44.73	PK	321	2.2	V	6.21	50.94	74	23.06
4884.00	30.84	Ave.	321	2.2	V	6.21	37.05	54	16.95

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Frequency (MHz)	Receiver		Turntable	Rx Antenna				15.24 //205/209	
	Reading (dBµV)	PK/QP/Ave.	Degree	Height (m)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
High Channel (2462 MHz)									
2462.00	64.36	PK	214	1.5	Н	34.08	98.44	/	/
2462.00	53.05	Ave.	214	1.5	Н	34.08	87.13	/	/
2462.00	68.03	PK	7	2.1	V	34.08	102.11	/	/
2462.00	56.11	Ave.	7	2.1	V	34.08	90.19	/	/
2346.17	27.36	PK	129	1.5	V	33.83	61.19	74	12.81
2346.17	13.58	Ave.	129	1.5	V	33.83	47.41	54	6.59
2483.51	34.17	PK	339	1.8	V	34.08	68.25	74	5.75
2483.51	16.54	Ave.	338	1.1	V	34.08	50.62	54	3.38
4924.00	43.59	PK	195	1.3	V	6.21	49.80	74	24.20
4924.00	29.88	Ave.	195	1.3	V	6.21	36.09	54	17.91

Note:

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

Margin = Limit - Corrected. Amplitude

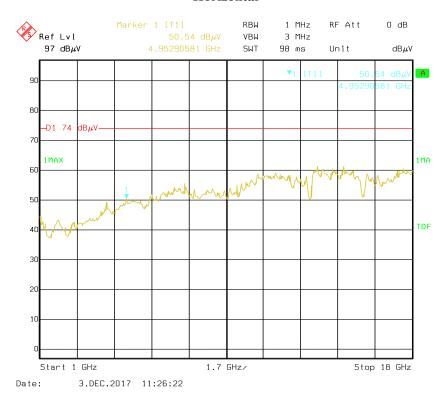
The other spurious emission which is 20dB to the limit was not recorded.

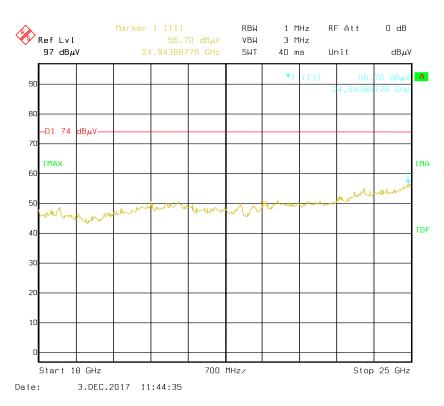
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Pre-scan with 802.11n20 Mode 2472 MHz

Report No.: RSZ171011001-00A

Horizontal

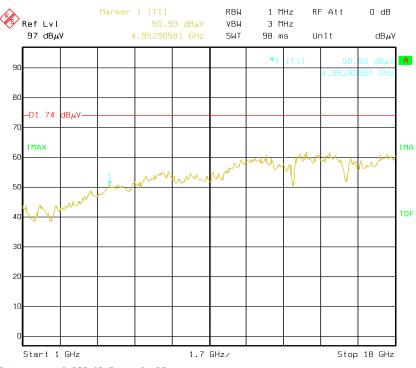




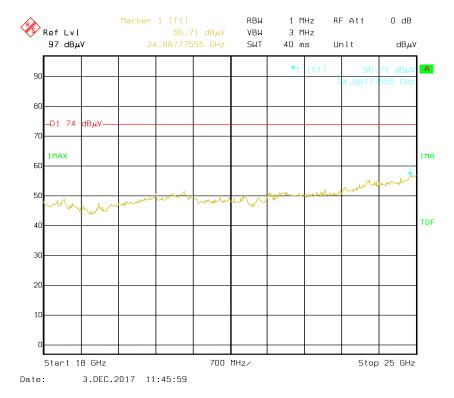
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Vertical

Report No.: RSZ171011001-00A







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

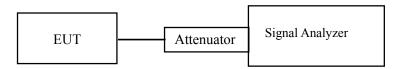
Applicable Standard

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.: RSZ171011001-00A

Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- 3. Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth.
- 4. Repeat above procedures until all frequencies measured were complete.



Test Data

Environmental Conditions

Temperature:	24 ℃
Relative Humidity:	48 %
ATM Pressure:	100.0 kPa

The testing was performed by Kobe Li on 2017-11-30.

Test Result: Pass.

Please refer to the following table and plots.

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EUT operation mode: Transmitting

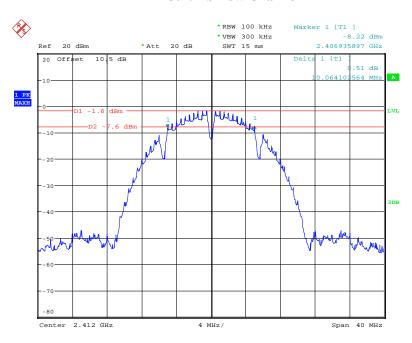
Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (kHz)				
802.11b mode							
Low	2412	10.06	≥500				
Middle	2442	9.68	≥500				
High	2472	9.74	≥500				
802.11g							
Low	2412	15.26	≥500				
Middle	2442	15.26	≥500				
High	2472	15.19	≥500				
802.11n-HT20 mode							
Low	2412	15.26	≥500				
Middle	2442	15.26	≥500				
High	2472	15.19	≥500				
802.11n-HT40 mode							
Low	2422	35.38	≥500				
Middle	2422	35.26	≥500				
High	2462	35.13	≥500				

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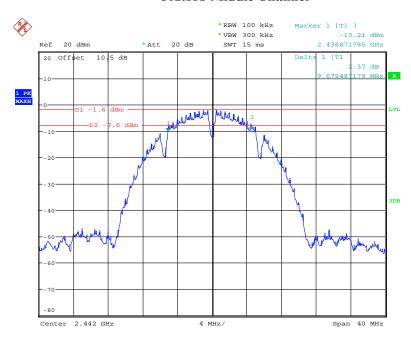
802.11b Low Channel

Report No.: RSZ171011001-00A



Date: 30.NOV.2017 21:47:08

802.11b Middle Channel

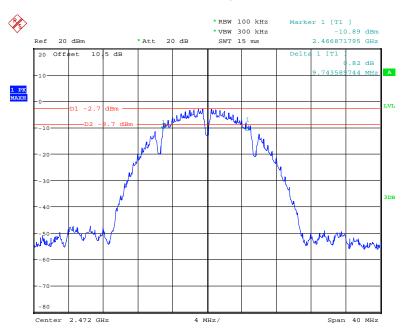


Date: 30.NOV.2017 21:47:38

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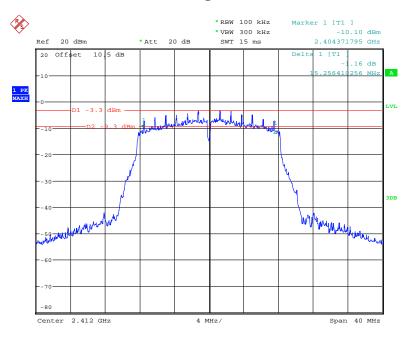
802.11b High Channel

Report No.: RSZ171011001-00A



Date: 30.NOV.2017 21:48:23

802.11g Low Channel

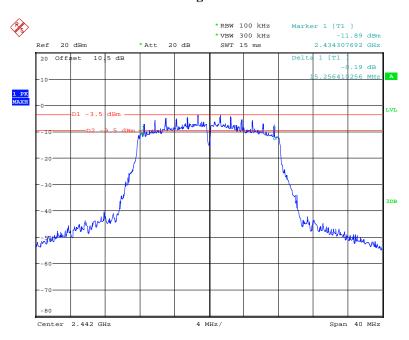


Date: 30.NOV.2017 21:45:32

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802.11g Middle Channel

Report No.: RSZ171011001-00A



Date: 30.NOV.2017 21:44:55

802.11g High Channel

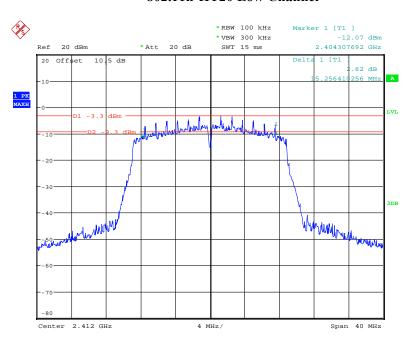


Date: 30.NOV.2017 21:44:23

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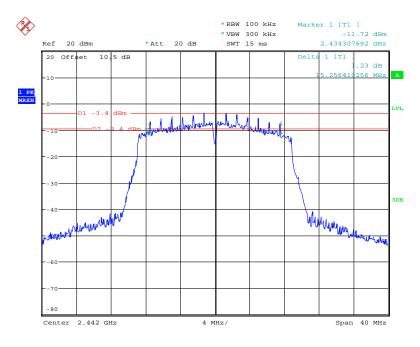
802.11n-HT20 Low Channel

Report No.: RSZ171011001-00A



Date: 30.NOV.2017 21:40:20

802.11n-HT20 Middle Channel

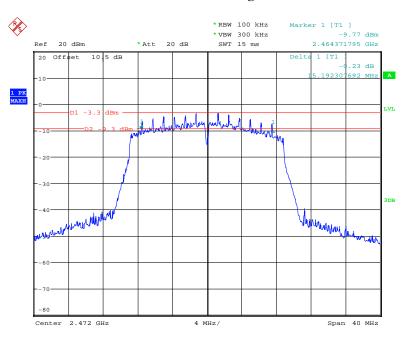


Date: 30.NOV.2017 21:39:36

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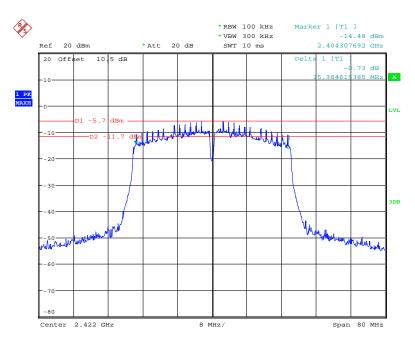
802.11n-HT20 High Channel

Report No.: RSZ171011001-00A



Date: 30.NOV.2017 21:38:44

802.11n-HT40 Low Channel

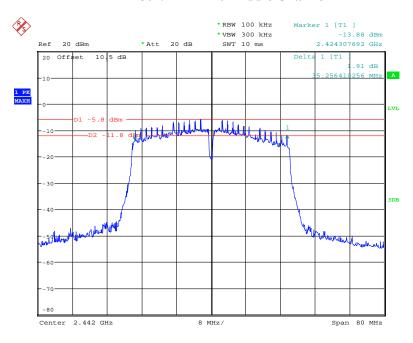


Date: 30.NOV.2017 21:42:00

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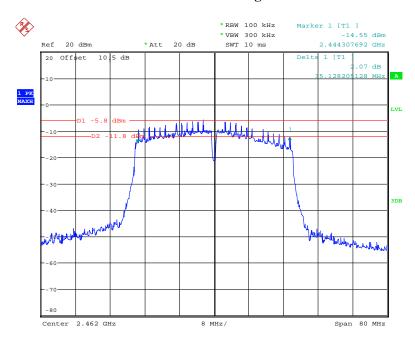
802.11n-HT40 Middle Channel

Report No.: RSZ171011001-00A



Date: 30.NOV.2017 21:42:50

802.11n-HT40 High Channel



Date: 30.NOV.2017 21:43:19

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

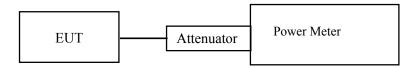
Applicable Standard

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.

Report No.: RSZ171011001-00A

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 Data

Environmental Conditions

Temperature:	24 ℃	
Relative Humidity:	48 %	
ATM Pressure:	100.0 kPa	

The testing was performed by Kobe Li on 2017-11-30.

EUT operation mode: Transmitting

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Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Limit (dBm)			
	802.11b					
Low	2412	11.18	30			
Middle	2442	10.94	30			
High	2472	10.02	30			
802.11g						
Low	2412	14.27	30			
Middle	2442	13.95	30			
High	2472	13.91	30			
	802.11n-HT20					
Low	2412	14.56	30			
Middle	2442	14.32	30			
High	2472	14.26	30			
802.11n-HT40						
Low	2422	14.52	30			
Middle	2442	14.31	30			
High	2462	14.38	30			

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

Report No.: RSZ171011001-00A

Applicable Standard

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

Test Procedure

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



Test Data

Environmental Conditions

Temperature:	24 ℃	
Relative Humidity:	48 %	
ATM Pressure:	100.0 kPa	

The testing was performed by Kobe Li on 2017-11-30.

EUT operation mode: Transmitting

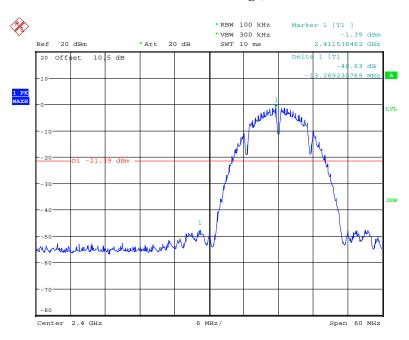
Test Result: Compliance

Please refer to the following plots.

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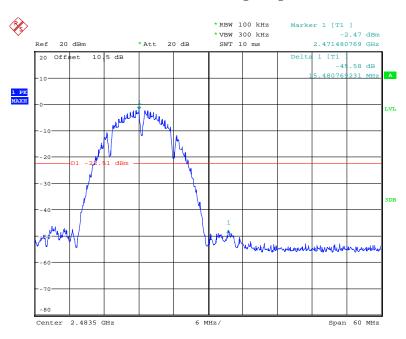
802.11b: Band Edge, Left Side

Report No.: RSZ171011001-00A



Date: 30.NOV.2017 22:08:29

802.11b: Band Edge, Right Side

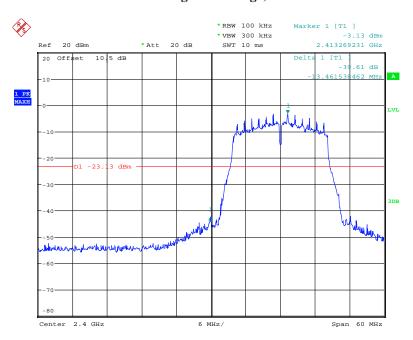


Date: 30.NOV.2017 22:07:54

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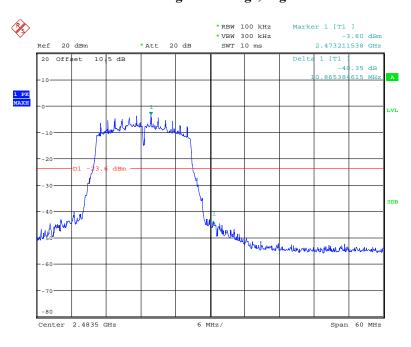
802.11g: Band Edge, Left Side

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802.11g: Band Edge, Right Side

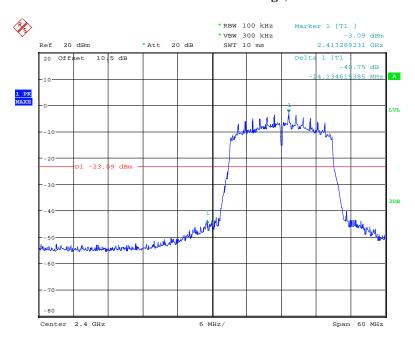


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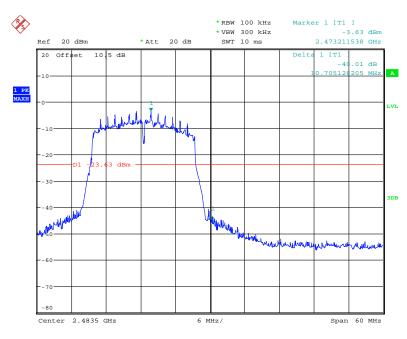
802.11n-HT20: Band Edge, Left Side

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Date: 30.NOV.2017 22:06:06

802.11n-HT20: Band Edge, Right Side

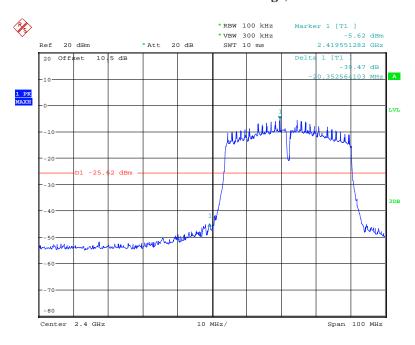


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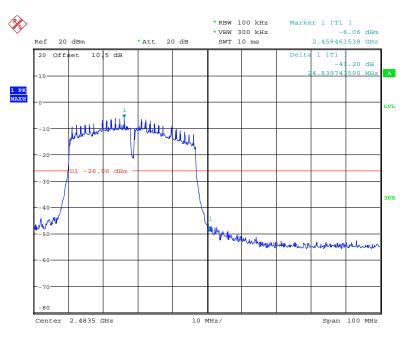
802.11n-HT40: Band Edge, Left Side

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802.11n-HT40: Band Edge, Right Side



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FCC §15.247(e) - POWER SPECTRAL DENSITY

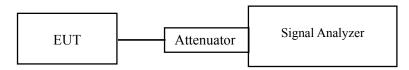
Applicable Standard

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

- 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: $3kHz \le RBW \le 100 \text{ kHz}$.
- 3. Set the VBW $> 3 \times RBW$.
- 4. Set the span to 1.5 times the DTS bandwidth.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level within the RBW.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



Test Data

Environmental Conditions

Temperature:	24 ℃	
Relative Humidity:	48 %	
ATM Pressure:	100.0 kPa	

The testing was performed by Kobe Li on 2017-11-30.

EUT operation mode: Transmitting

Test Result: Pass

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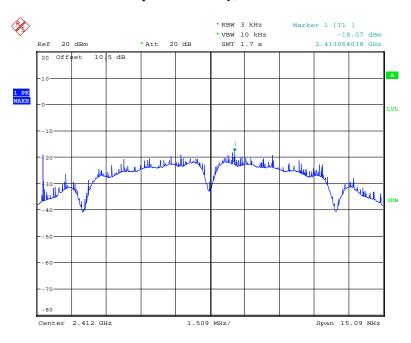
Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)			
	802.11b mode					
Low	2412	-18.07	≤8			
Middle	2442	-18.31	≤8			
High	2472	-18.00	≤8			
802.11g mode						
Low	2412	-20.19	≤8			
Middle	2442	-19.34	≤8			
High	2472	-20.30	≤8			
802.11n-HT20 mode						
Low	2412	-19.93	≤8			
Middle	2442	-18.91	≤8			
High	2472	-20.01	≤8			
802.11n-HT40 mode						
Low	2422	-22.24	≤8			
Middle	2442	-21.30	≤8			
High	2462	-20.65	≤8			

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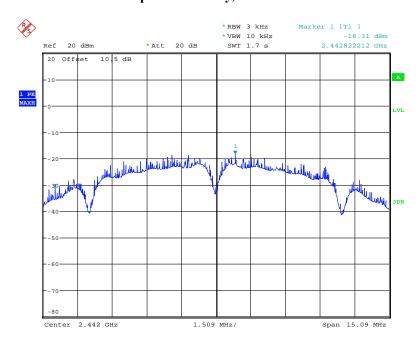
Power Spectral Density, 802.11b Low Channel

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Power Spectral Density, 802.11b Middle Channel

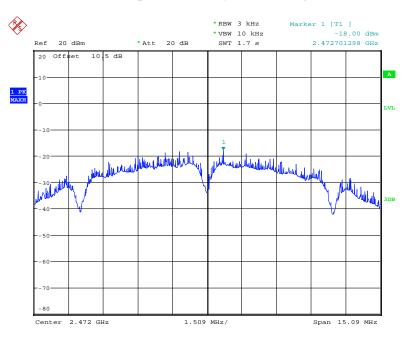


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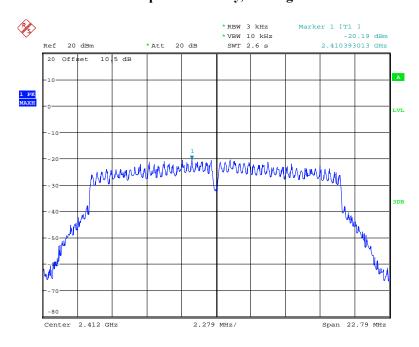
Power Spectral Density, 802.11b High Channel

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Date: 30.NOV.2017 22:16:28

Power Spectral Density, 802.11g Low Channel

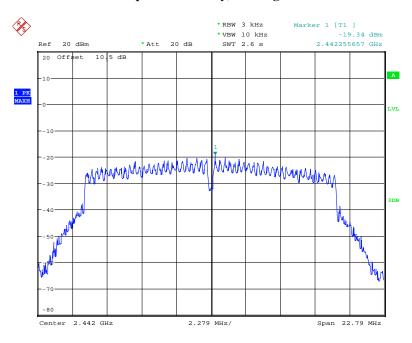


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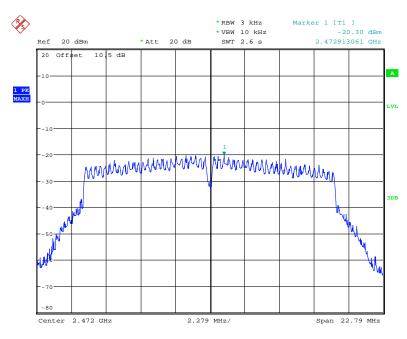
Power Spectral Density, 802.11g Middle Channel

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Date: 30.NOV.2017 22:13:31

Power Spectral Density, 802.11g High Channel

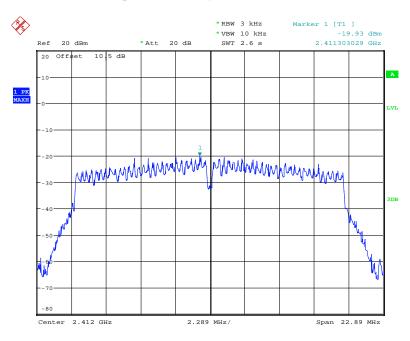


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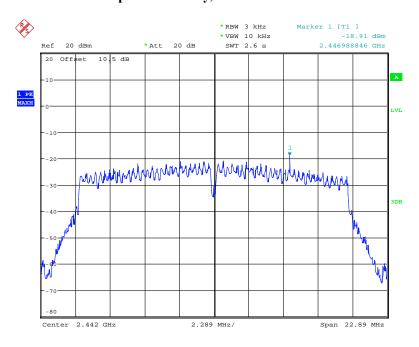
Power Spectral Density, 802.11n-HT20 Low Channel

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Power Spectral Density, 802.11n-HT20 Middle Channel

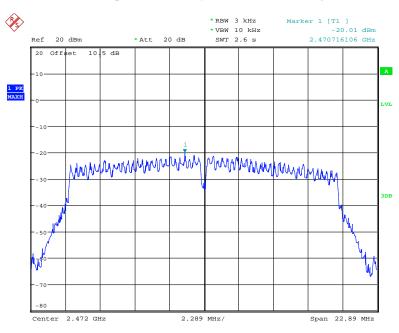


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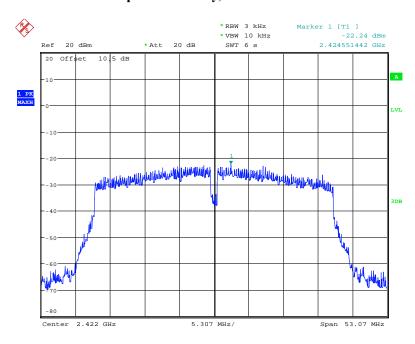
Power Spectral Density, 802.11n-HT20 High Channel

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Power Spectral Density, 802.11n-HT40 Low Channel

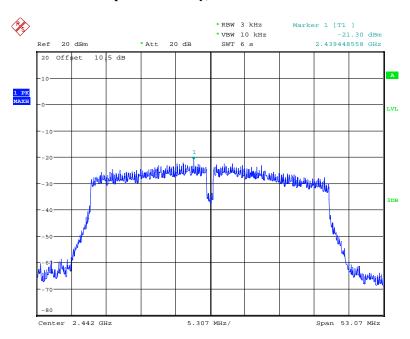


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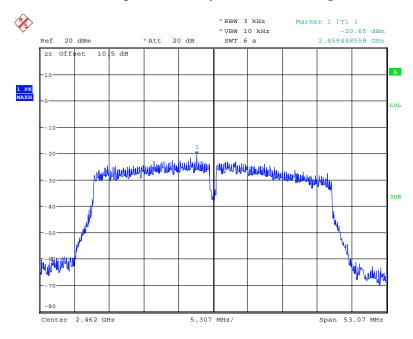
Power Spectral Density, 802.11n-HT40 Middle Channel

Report No.: RSZ171011001-00A



Date: 30.NOV.2017 22:29:28

Power Spectral Density, 802.11n-HT40 High Channel



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

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