



FCC PART 15.247 TEST REPORT

For

Hytera Communications Corporation Limited

Hytera Tower, Hi-Tech Industrial Park North, 9108# Beihuan Road, Nanshan District, Shenzhen, 518057 China

FCC ID: YAMPDC760UXB2

Report Type: Product Type:

Original Report Multi-mode Advanced Radio

Report Number: RDG171226008-00C

Report Date: 2018-04-02

Rocky Kang

Reviewed By: RF Engineer

Prepared By: Bay Area Compliance Laboratories Corp. (Shenzhen)

6/F., West Wing, Third Phase of Wanli Industrial Building, Shihua Road, Futian Free Trade Zone,

Rocky Kang

Shenzhen, Guangdong, China

Tel: +86-755-33320018 Fax: +86-755-33320008 www.baclcorp.com.cn

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Hytera Communications Corporation Limited's* product, model number: PDC760 UxB2 (*FCC ID: YAMPDC760UXB2*) or the "EUT" in this report was a *Multi-mode Advanced Radio*, which was measured approximately:24.0 cm (L) * 7.0 cm (W) *2.5 cm (H), rated with input voltage: DC 7.6V battery or DC 12V from Adapter.

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Adapter information: Model: S024WM1200200.

Input: 100-240V~50/60Hz, 600mA Max.

Output: 12V, 2000mA

*All measurement and test data in this report was gathered from production sample serial number: 171226008. (Assigned by BACL, Shenzhen). The EUT supplied by the applicant was received on 2017-12-26.

Objective

This report is prepared on behalf of *Hytera Communications Corporation 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)

Part 15.247 DSS, FCC Part 15.225 DXX, Part 22&74&80&90 TNF and Part 22H & 24E&27&Part 90 PCE submissions with FCC ID: YAMPDC760UXB2.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

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

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Measurement Uncertainty

Para	meter	Uncertainty
Occupied Char	nnel Bandwidth	±5%
RF Output Power	with Power meter	±0.5dB
RF conducted test with spectrum		±1.5dB
AC Power Lines Conducted Emissions		±1.95dB
Emissions,	Below 1GHz	±4.75dB
Radiated	Above 1GHz	±4.88dB
Temperature		±3℃
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 BLE mode, 40 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2442
1	2404	21	2444
2	2406	22	2446
3	2408	23	2448
4	2410	24	2450
5	2412	25	2452
6	2414	26	2454
7	2416	27	2456
8	2418	28	2458
9	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38 2478	
19	2440	39	2480

EUT was tested with Channel 0, 19 and 39.

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Equipment Modifications

Software "QRCT" was made to the EUT tested.

EUT Exercise Software

BLE & Wi-Fi test in the engineer mode.

The software "QRCT" was used and the worst case was performed as below:

Mode	Data wata		Power level	
Mode	Data rate	Low channel	Middle channel	High channel
802.11b	1 Mbps	13	13	13
802.11g	6 Mbps	13	13	13
802.11n-HT20	MCS0	13	13	13
BLE	/	Default	Default	Default

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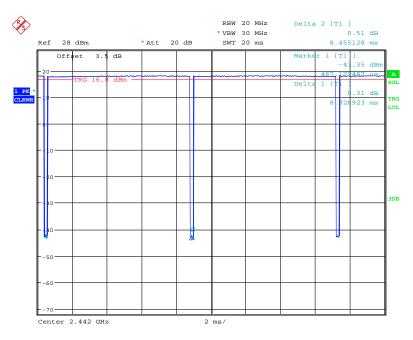
Pre-scan with all the date rates, the above date rate is the worst case for Wi-Fi test.

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Duty cycle

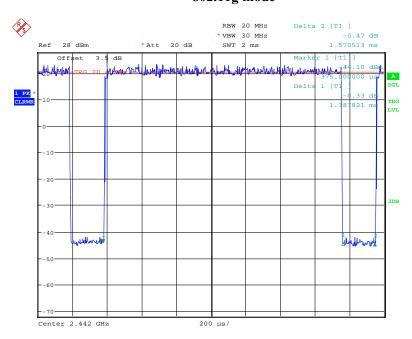
802.11b mode

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Date: 25.JAN.2018 11:28:04

802.11g mode

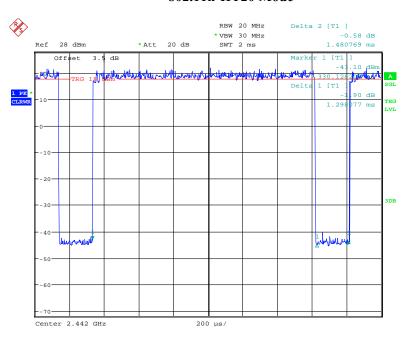


Date: 25.JAN.2018 11:32:30

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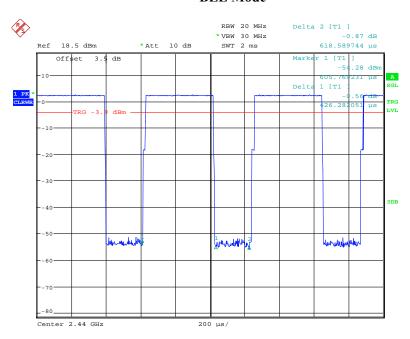
802.11n-HT20 Mode

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Date: 25.JAN.2018 11:34:15

BLE Mode



Date: 25.JAN.2018 13:39:16

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Band	Duty Cycle (%)	T(us)	1/T(kHz)	VBW Setting	10log(1/ Duty Cycle)
802.11b	98	-	-	10Hz	0
802.11g	88	1388	0.72	1kHz	0.56
802.11n-HT20	88	1298	0.77	1kHz	0.56
BLE	69	426	2.35	3kHz	1.61

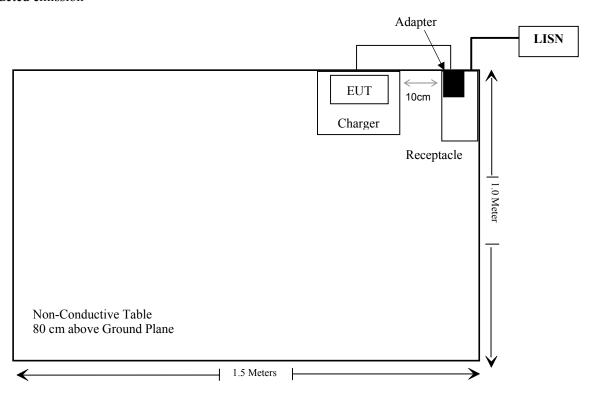
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External I/O Cable

Cable Description	Length (m)	From Port	То
Un-shielding Detachable USB Cable	1.5	EUT	Adapter

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)& §2.1093	RF Exposure	Compliance
§15.203	Antenna Requirement	Compliance
§15.207 (a)	AC Line Conducted Emissions	Compliance
\$15.205, \$15.209, \$15.247(d)	Spurious Emissions Complia	
§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 Complian	
§15.247(e)	Power Spectral Density	Compliance

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TEST EQUIPMENT LIST

Manufacturer Description		Model	Serial Number	Calibration Date	Calibration Due Date	
Conducted Emissions Test						
Rohde & Schwarz	EMI Test Receiver	ESCS30	100176	2017-08-04	2018-08-04	
Rohde & Schwarz	LISN	ENV216	3560.6650.12- 101613-Yb	2017-12-07	2018-12-07	
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	
	Radi	ated Emission T	est			
A.H.System Horn Antenna		SAS-200/571	135	2015-08-18	2018-08-17	
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	2017-12-17	2020-12-16	
Rohde & Schwarz EMI Test Receiver		ESCI	101120	2017-12-07	2018-12-07	
Ducommun technologies	I PECable		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	2017-11-19	2018-05-21	
Ducommun Technologies Horn Antenna		ARH-4223- 02	1007726-04	2017-12-29	2020-12-28	
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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^{*} 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).

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

Applicable Standard

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

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According to KDB 447498 D01 General RF Exposure Guidance

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

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- 1. f(GHz) is the RF channel transmit frequency in GHz.
- 2. Power and distance are rounded to the nearest mW and mm before calculation.
- 3. The result is rounded to one decimal place for comparison.
- 4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

Measurement Result

For Bluetooth BLE Mode:

Mode	Frequency (MHz)	Max Tune-up Conducted Power (dBm)	Max Tune-up Conducted Power (mW)	Calculated Distance (mm)	Calculated value	Threshold (1-g SAR)	SAR Test Exclusion
BLE	2480	2.0	1.58	5	0.50	3.0	Yes

Result: No SAR test is required.

For Wi-Fi Mode

Result: Please refer to SAR report RDG171226008-20

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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 internal antenna arrangement, which was permanently attached and the antenna gain is 0dBi, 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 (AMIN) 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

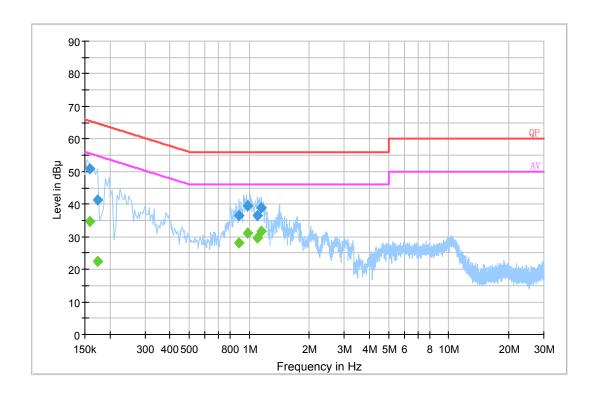
Temperature:	25 ℃
Relative Humidity:	52 %
ATM Pressure:	101.0 kPa

The testing was performed by Simon Wang on 2018-03-03. EUT operation mode: Transmitting & charging

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WIFI Mode:

AC 120V/60 Hz, Line

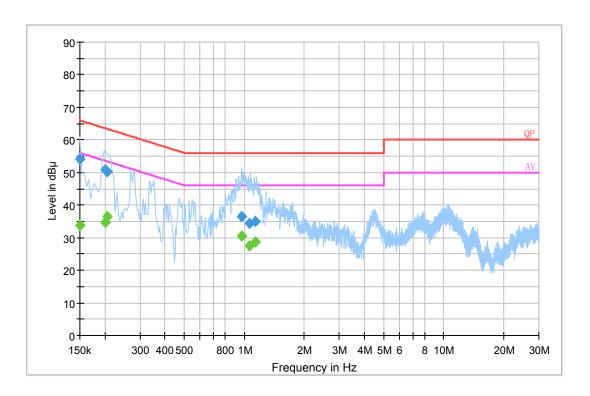


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Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
0.158500	50.9	20.2	65.5	14.6	QP
0.173500	41.3	20.2	64.8	23.5	QP
0.884650	36.4	20.1	56.0	19.6	QP
0.984550	39.6	20.1	56.0	16.4	QP
1.093530	36.4	20.1	56.0	19.6	QP
1.148750	39.0	20.1	56.0	17.0	QP
0.158500	34.8	20.2	55.5	20.7	Ave.
0.173500	22.5	20.2	54.8	32.3	Ave.
0.884650	28.2	20.1	46.0	17.8	Ave.
0.984550	31.1	20.1	46.0	14.9	Ave.
1.093530	29.5	20.1	46.0	16.5	Ave.
1.148750	31.6	20.1	46.0	14.4	Ave.

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AC 120V/60 Hz, Neutral



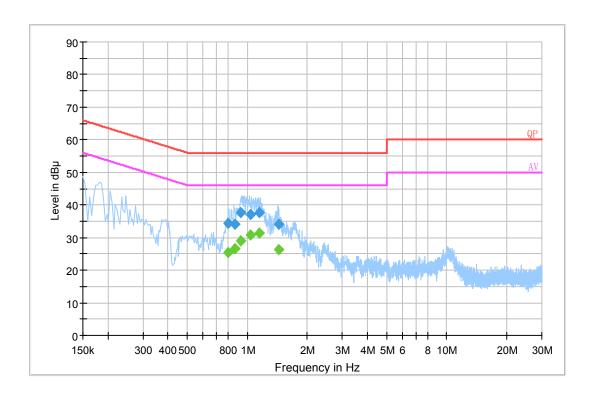
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Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
0.150000	54.1	20.2	66.0	11.9	QP
0.201500	50.7	20.2	63.5	12.8	QP
0.205500	50.2	20.2	63.4	13.2	QP
0.971510	36.4	20.1	56.0	19.6	QP
1.065950	34.4	20.1	56.0	21.6	QP
1.140690	35.1	20.1	56.0	20.9	QP
0.150000	33.8	20.2	56.0	22.2	Ave.
0.201500	34.6	20.2	53.5	18.9	Ave.
0.205500	36.3	20.2	53.4	17.1	Ave.
0.971510	30.4	20.1	46.0	15.6	Ave.
1.065950	27.4	20.1	46.0	18.6	Ave.
1.140690	28.6	20.1	46.0	17.4	Ave.

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BLE Mode:

AC 120V/60 Hz, Line

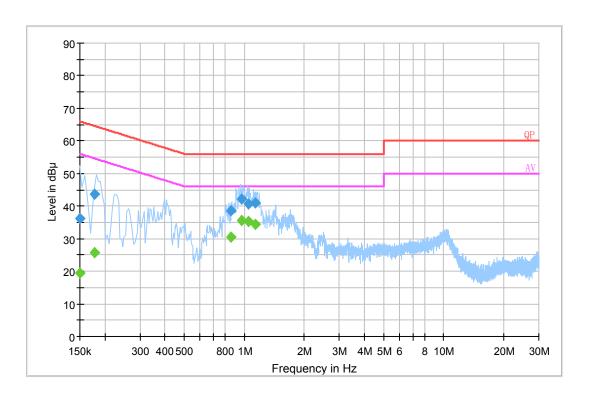


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Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
0.805910	34.3	20.0	56.0	21.7	QP
0.865130	34.1	20.1	56.0	21.9	QP
0.931990	37.7	20.1	56.0	18.3	QP
1.038610	37.1	20.1	56.0	18.9	QP
1.152930	37.7	20.1	56.0	18.3	QP
1.440550	34.1	20.1	56.0	21.9	QP
0.805910	25.3	20.0	46.0	20.7	Ave.
0.865130	26.7	20.1	46.0	19.3	Ave.
0.931990	29.0	20.1	46.0	17.0	Ave.
1.038610	30.9	20.1	46.0	15.1	Ave.
1.152930	31.3	20.1	46.0	14.7	Ave.
1.440550	26.4	20.1	46.0	19.6	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)
0.150000	36.1	20.2	66.0	29.9	QP
0.177500	43.6	20.2	64.6	21.0	QP
0.857010	38.5	20.1	56.0	17.5	QP
0.971570	42.2	20.1	56.0	13.8	QP
1.050370	40.6	20.1	56.0	15.4	QP
1.140990	40.9	20.1	56.0	15.1	QP
0.150000	19.3	20.2	56.0	36.7	Ave.
0.177500	25.8	20.2	54.6	28.8	Ave.
0.857010	30.4	20.1	46.0	15.6	Ave.
0.971570	35.7	20.1	46.0	10.3	Ave.
1.050370	35.3	20.1	46.0	10.7	Ave.
1.140990	34.3	20.1	46.0	11.7	Ave.

- 1) Correction Factor =LISN VDF (Voltage Division Factor) + Cable Loss + Transient Limiter Attenuation
- 2) Corrected Amplitude = Reading + Correction Factor
 3) 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</u>, section 15.205, 15.209 and 15.247.

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

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

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

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Test Data

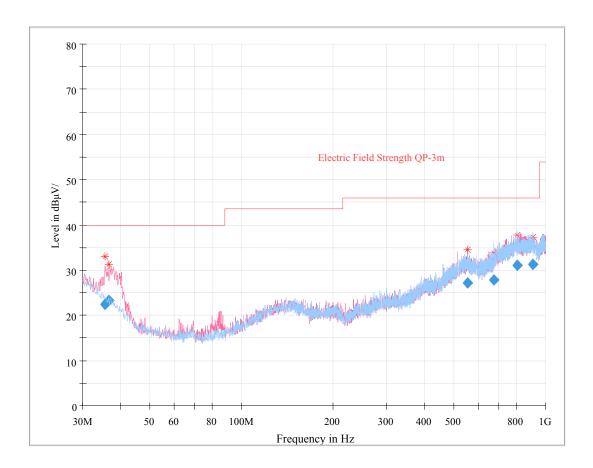
Environmental Conditions

Temperature:	23~25 ℃
Relative Humidity:	49~52 %
ATM Pressure:	100.0~101.0 kPa

The testing was performed by Simon Wang on 2018-01-27.

EUT operation mode: Transmitting

30 MHz~1 GHz: (worst case at 802.11b Mode Middle 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)
35.593125	22.44	109.0	V	23.0	-3.3	40.00	17.56
36.586125	23.24	125.0	V	44.0	-4.0	40.00	16.76
555.168125	27.26	174.0	V	337.0	4.7	46.00	18.74
675.935000	27.72	277.0	Н	272.0	5.6	46.00	18.28
807.816875	30.95	274.0	Н	250.0	9.0	46.00	15.05
907.093750	31.24	290.0	Н	188.0	9.5	46.00	14.76

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For BLE:

Frequency	Re	eceiver	Turntable	Rx An	itenna	Corrected Factor	Corrected Amplitude		C Part /205/209
(MHz)	Reading (dBµV)	PK/QP/Ave.	Degree	Height (m)	Polar (H/V)	(dB/m)	(dRuV/m)	Limit (dBµV/m)	Margin (dB)
			Low Ch	annel (2	2402 M	Hz)			
2402.00	53.76	PK	13	1.3	Н	33.92	87.68	/	/
2402.00	47.72	Ave.	13	1.3	Н	33.92	81.64	/	/
2402.00	56.86	PK	71	1.7	V	33.92	90.78	/	/
2402.00	50.74	Ave.	71	1.7	V	33.92	84.66	/	/
2381.34	27.68	PK	335	2.2	V	33.92	61.60	74	12.40
2381.34	13.98	Ave.	335	2.2	V	33.92	47.90	54	6.10
2487.86	26.88	PK	110	1.9	V	34.08	60.96	74	13.04
2487.86	13.46	Ave.	110	1.9	V	34.08	47.54	54	6.46
4804.00	42.74	PK	326	2.0	V	5.84	48.58	74	25.42
4804.00	28.57	Ave.	326	2.0	V	5.84	34.41	54	19.59
			Middle C	hannel	(2440 N	MHz)			
2440.00	55.47	PK	45	1.7	Н	33.92	89.39	/	/
2440.00	50.53	Ave.	45	1.7	Н	33.92	84.45	/	/
2440.00	57.83	PK	287	2.1	V	33.92	91.75	/	/
2440.00	51.98	Ave.	287	2.1	V	33.92	85.90	/	/
4880.00	42.39	PK	200	1.9	V	6.21	48.60	74	25.40
4880.00	28.48	Ave.	200	1.9	V	6.21	34.69	54	19.31
	_		High Ch	annel (2	2480 M	Hz)			
2480.00	54.30	PK	221	1.4	Н	34.08	88.38	/	/
2480.00	48.51	Ave.	221	1.4	Н	34.08	82.59	/	/
2480.00	56.32	PK	19	1.5	V	34.08	90.40	/	/
2480.00	50.18	Ave.	19	1.5	V	34.08	84.26	/	/
2374.80	27.99	PK	81	1.4	V	33.92	61.91	74	12.09
2374.80	13.98	Ave.	81	1.4	V	33.92	47.90	54	6.10
2487.68	27.40	PK	6	2.2	V	34.08	61.48	74	12.52
2487.68	13.45	Ave.	6	2.2	V	34.08	47.53	54	6.47
4960.00	43.21	PK	102	1.5	V	7.82	51.03	74	22.97
4960.00	28.16	Ave.	102	1.5	V	7.82	35.98	54	18.02

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For Wi-Fi:

802.11b Mode:

Frequency	Re	eceiver	Turntable	Rx Ar	itenna		Corrected		C Part //205/209
(MHz)	Reading (dBµV)	PK/QP/Ave.	Degree	Height (m)	Polar (H/V)	Factor (dB/m)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
			Low Ch	annel (2	2412 M	Hz)			
2412.00	64.83	PK	251	1.6	Н	33.92	98.75	/	/
2412.00	59.15	Ave.	251	1.6	Н	33.92	93.07	/	/
2412.00	68.04	PK	48	1.9	V	33.92	101.96	/	/
2412.00	62.50	Ave.	48	1.9	V	33.92	96.42	/	/
2383.74	27.78	PK	112	1.9	V	33.92	61.70	74	12.30
2383.74	13.92	Ave.	112	1.9	V	33.92	47.84	54	6.16
2496.11	27.41	PK	107	1.4	V	34.08	61.49	74	12.51
2496.11	13.50	Ave.	107	1.4	V	34.08	47.58	54	6.42
4824.00	45.02	PK	135	2.3	V	5.84	50.86	74	23.14
4824.00	38.25	Ave.	29	1.9	V	5.84	44.09	54	9.91
	Middle Channel (2442 MHz)								
2442.00	61.59	PK	313	2.3	Н	33.92	95.51	/	/
2442.00	56.14	Ave.	313	2.3	Н	33.92	90.06	/	/
2442.00	64.56	PK	181	1.6	V	33.92	98.48	/	/
2442.00	59.27	Ave.	181	1.6	V	33.92	93.19	/	/
4884.00	43.21	PK	311	2.0	V	6.21	49.42	74	24.58
4884.00	29.51	Ave.	311	2.0	V	6.21	35.72	54	18.28
			High Ch	annel (2472 M	Hz)			
2472.00	60.09	PK	308	2.0	Н	34.08	94.17	/	/
2472.00	54.70	Ave.	308	2.0	Н	34.08	88.78	/	/
2472.00	63.32	PK	158	1.1	V	34.08	97.40	/	/
2472.00	57.90	Ave.	158	1.1	V	34.08	91.98	/	/
2387.15	27.76	PK	330	1.0	V	33.92	61.68	74	12.32
2387.15	13.99	Ave.	330	1.0	V	33.92	47.91	54	6.09
2483.53	28.31	PK	155	1.8	V	34.08	62.39	74	11.61
2483.53	16.35	Ave.	155	1.8	V	34.08	50.43	54	3.57
4944.00	42.67	PK	226	2.4	V	6.21	48.88	74	25.12
4944.00	28.94	Ave.	226	2.4	V	6.21	35.15	54	18.85

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802.11g Mode:

Frequency	Re	eceiver	Turntable	Rx Aı	ntenna		Corrected		C Part /205/209
(MHz)	Reading (dBµV)	PK/QP/Ave.		Height (m)	Polar (H/V)	Factor (dB/m)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Low Channel (2412 MHz)								
2412.00	67.92	PK	167	1.5	Н	33.92	101.84	/	/
2412.00	55.64	Ave.	167	1.5	Н	33.92	88.56	/	/
2412.00	70.01	PK	279	1.6	V	33.92	103.93	/	/
2412.00	56.06	Ave.	279	1.6	V	33.92	89.98	/	/
2389.51	34.22	PK	110	2.3	V	33.92	68.14	74	5.86
2389.51	15.93	Ave.	110	2.3	V	33.92	49.85	54	4.15
2483.53	27.62	PK	320	2.2	V	34.08	61.70	74	12.30
2483.53	13.47	Ave.	320	2.2	V	34.08	47.55	54	6.45
4824.00	43.97	PK	335	2.3	V	5.84	49.81	74	24.19
4824.00	29.55	Ave.	335	2.3	V	5.84	35.39	54	18.61
	Middle Channel(2442 MHz)								
2442.00	66.02	PK	290	1.5	Н	33.92	99.94	/	/
2442.00	53.12	Ave.	290	1.5	Н	33.92	87.04	/	/
2442.00	68.49	PK	341	1.3	V	33.92	102.41	/	/
2442.00	56.36	Ave.	341	1.3	V	33.92	90.28	/	/
4884.00	43.51	PK	224	1.4	V	6.21	49.72	74	24.28
4884.00	28.86	Ave.	224	1.4	V	6.21	35.07	54	18.93
			High Ch	annel (2472 M	Hz)			
2472.00	61.17	PK	61	1.9	Н	34.08	95.25	/	/
2472.00	49.02	Ave.	61	1.9	Н	34.08	83.10	/	/
2472.00	63.80	PK	245	1.8	V	34.08	97.88	/	/
2472.00	51.26	Ave.	245	1.8	V	34.08	85.34	/	/
2371.24	27.57	PK	73	2.0	V	33.92	61.49	74	12.51
2371.24	13.98	Ave.	73	2.0	V	33.92	47.90	54	6.10
2483.51	37.10	PK	25	1.1	V	34.08	71.18	74	2.82
2483.51	16.46	Ave.	25	1.1	V	34.08	50.54	54	3.46
4944.00	43.51	PK	189	1.9	V	6.21	49.72	74	24.28
4944.00	28.86	Ave.	189	1.9	V	6.21	35.07	54	18.93

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802.11n-HT20 Mode:

Frequency	Re	eceiver	Turntable	Rx Ar	itenna		Corrected		C Part 7/205/209
(MHz)	Reading (dBµV)	PK/QP/Ave.	Degree	Height (m)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Low Channel (2412 MHz)								
2412.00	68.16	PK	84	2.2	Н	33.92	102.08	/	/
2412.00	56.02	Ave.	84	2.2	Н	33.92	89.94	/	/
2412.00	70.28	PK	248	2.1	V	33.92	104.20	/	/
2412.00	57.68	Ave.	248	2.1	V	33.92	91.60	/	/
2378.10	27.39	PK	113	1.5	V	33.92	61.31	74	12.69
2378.10	13.78	Ave.	113	1.5	V	33.92	47.70	54	6.30
2489.36	27.36	PK	196	2.5	V	34.08	61.44	74	12.56
2489.36	13.25	Ave.	196	2.5	V	34.08	47.33	54	6.67
4824.00	43.45	PK	238	1.2	V	5.84	49.29	74	24.71
4824.00	30.00	Ave.	238	1.2	V	5.84	35.84	54	18.16
	Middle Channel(2442 MHz)								
2442.00	66.61	PK	53	2.4	Н	33.92	100.53	/	/
2442.00	54.01	Ave.	53	2.4	Н	33.92	87.93	/	/
2442.00	68.07	PK	121	2.1	V	33.92	101.99	/	/
2442.00	55.43	Ave.	121	2.1	V	33.92	89.35	/	/
4884.00	43.10	PK	73	2.0	V	6.21	49.31	74	24.69
4884.00	28.89	Ave.	73	2.0	V	6.21	35.10	54	18.90
			High Ch	annel (2472 M	Hz)			
2472.00	61.12	PK	301	2.2	Н	34.08	95.20	/	/
2472.00	48.43	Ave.	301	2.2	Н	34.08	82.51	/	/
2472.00	64.62	PK	97	2.1	V	34.08	98.70	/	/
2472.00	52.04	Ave.	97	2.1	V	34.08	86.12	/	/
2379.05	27.88	PK	277	2.2	V	33.92	61.80	74	12.20
2379.05	13.78	Ave.	277	2.2	V	33.92	47.70	54	6.30
2483.50	38.49	PK	51	2.2	V	34.08	72.57	74	1.43
2483.50	17.51	Ave.	51	2.2	V	34.08	51.59	54	2.41
4944.00	43.28	PK	254	2.5	V	6.21	49.49	74	24.51
4944.00	28.87	Ave.	254	2.5	V	6.21	35.08	54	18.92

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Note:

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

Corrected Amplitude = Corrected Factor + Reading Margin = Limit - Corrected. Amplitude

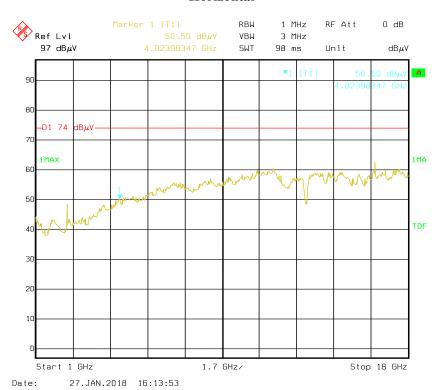
The other spurious emission which is 20dB to the limit was not recorded.

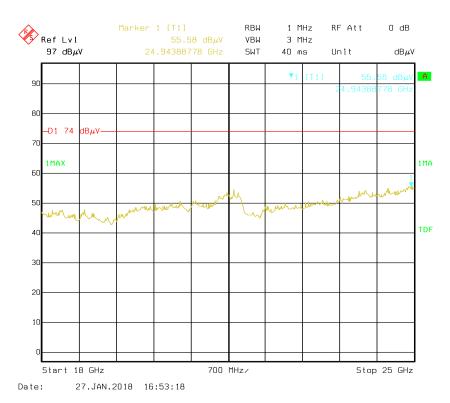
And for the pre-scan is performed with the 2400-2483.5MHz band filter.

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Pre-scan with Peak, Low channel Horizontal

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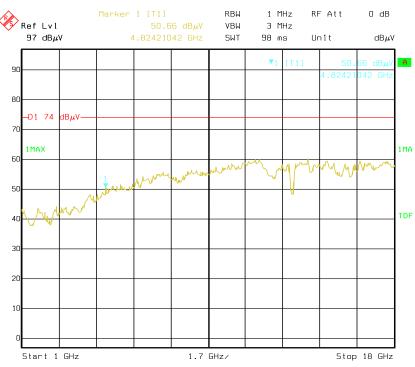




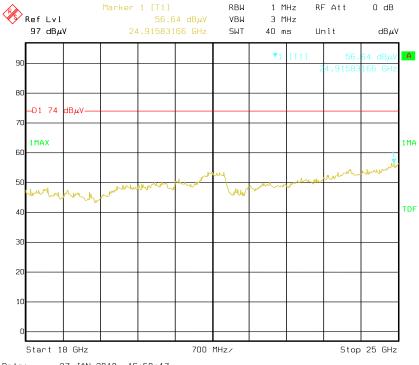
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Vertical

Report No.: RDG171226008-00C



Date: 27.JAN.2018 16:20:11

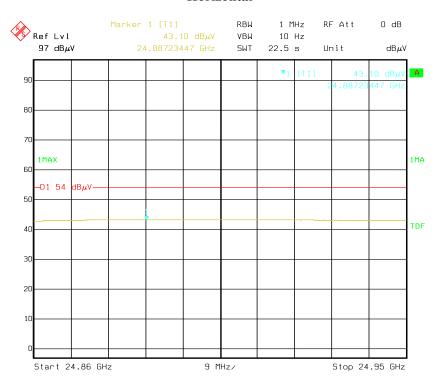


Date: 27.JAN.2018 16:50:17

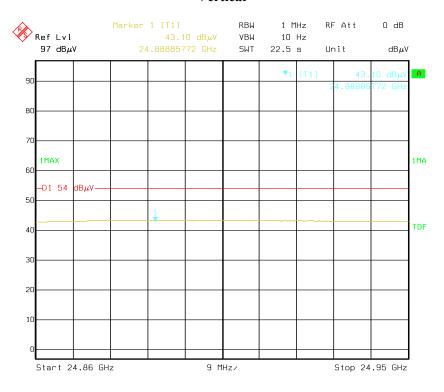
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Pre-scan with Average, Low channel Horizontal

Report No.: RDG171226008-00C



Vertical



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

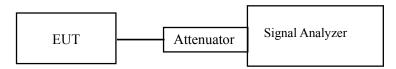
Applicable Standard

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.: RDG171226008-00C

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:	25 ℃
Relative Humidity:	52 %
ATM Pressure:	101.0 kPa

The testing was performed by Simon Wang on 2018-01-25.

Test Result: Pass.

Please refer to the following table and plots.

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EUT operation mode: Transmitting

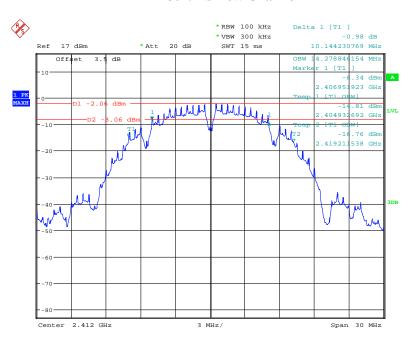
Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (kHz)
802.11b mode			
Low	2412	10. 144	≥500
Middle	2442	10. 096	≥500
High	2472	10.096	≥500
802.11g			
Low	2412	16. 538	≥500
Middle	2442	16. 490	≥500
High	2472	16. 490	≥500
802.11n-HT20 mode			
Low	2412	17. 885	≥500
Middle	2442	17. 692	≥500
High	2472	17. 644	≥500
BLE mode			
Low	2402	0.676	≥500
Middle	2440	0.692	≥500
High	2480	0.692	≥500

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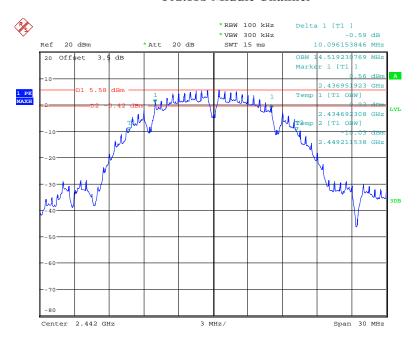
802.11b Low Channel

Report No.: RDG171226008-00C



Date: 25.JAN.2018 10:14:16

802.11b Middle Channel

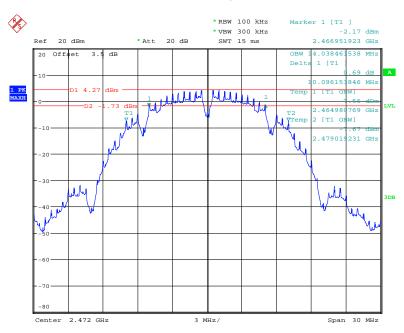


Date: 25.JAN.2018 10:16:43

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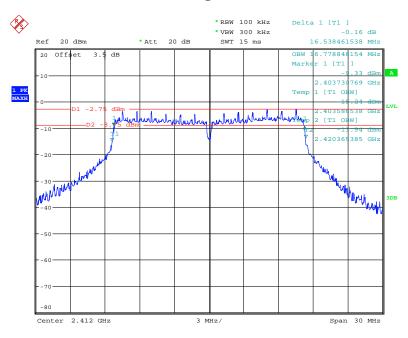
802.11b High Channel

Report No.: RDG171226008-00C



Date: 25.JAN.2018 10:18:17

802.11g Low Channel

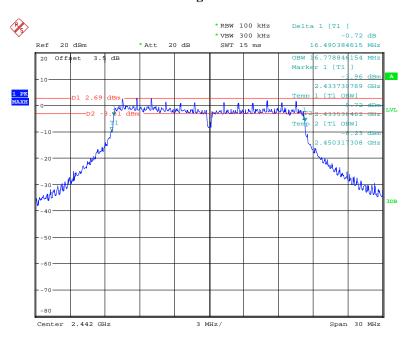


Date: 25.JAN.2018 10:26:58

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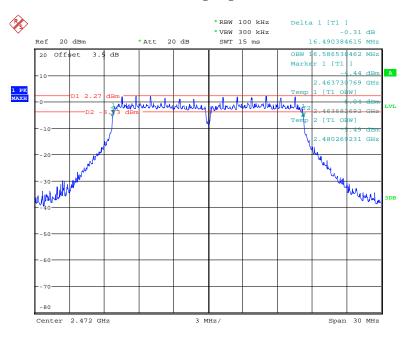
802.11g Middle Channel

Report No.: RDG171226008-00C



Date: 25.JAN.2018 10:24:07

802.11g High Channel

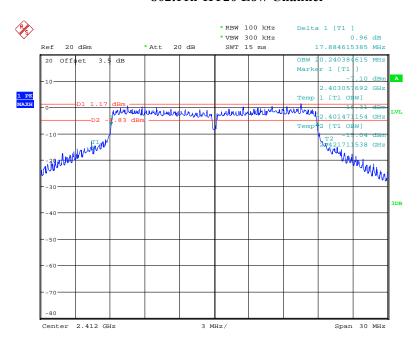


Date: 25.JAN.2018 10:28:38

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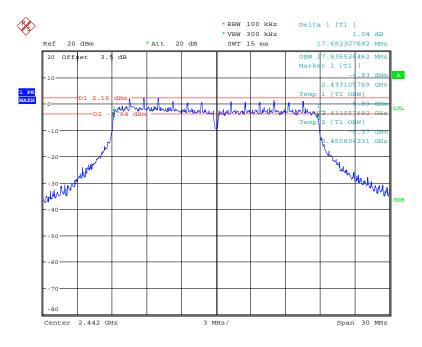
802.11n-HT20 Low Channel

Report No.: RDG171226008-00C



Date: 25.JAN.2018 10:30:14

802.11n-HT20 Middle Channel

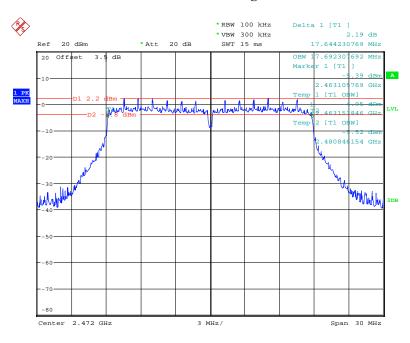


Date: 25.JAN.2018 10:31:21

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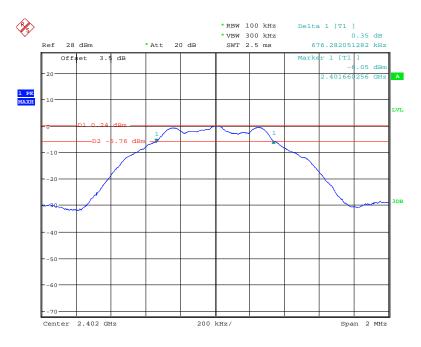
802.11n-HT20 High Channel

Report No.: RDG171226008-00C



Date: 25.JAN.2018 10:33:26

BLE Low Channel

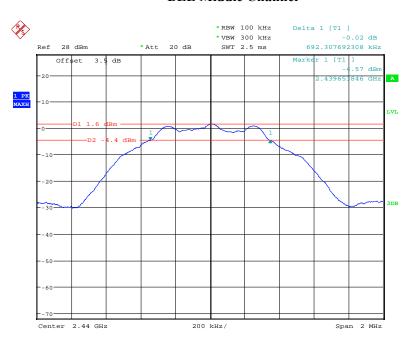


Date: 25.JAN.2018 13:25:22

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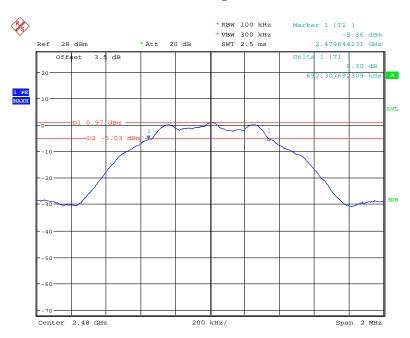
BLE Middle Channel

Report No.: RDG171226008-00C



Date: 25.JAN.2018 13:24:21

BLE High Channel



Date: 25.JAN.2018 13:22:55

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

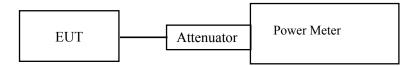
Applicable Standard

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.: RDG171226008-00C

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:	25 ℃	
Relative Humidity:	52 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Simon Wang on 2018-01-25.

EUT operation mode: Transmitting

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Wi-Fi mode

Report No.: RDG171226008-00C

Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Max Conducted Average Output Power (dBm)	Limit (dBm)	
		802.11b			
Low	2412	16.03	13.29	30	
Middle	2442	17.28	14.68	30	
High	2472	16.00	13.46	30	
	802.11g				
Low	2412	20.47	14.88	30	
Middle	2442	19.89	14.36	30	
High	2472	20.34	14.82	30	
802.11n HT20					
Low	2412	20.69	14.82	30	
Middle	2442	20.22	14.45	30	
High	2472	20.85	14.98	30	

BLE mode

Channel	Frequency (MHz)	Max Peak Output Power (dBm)	Limit (dBm)	Result
Low	2402	0.65	30	Pass
Middle	2440	1.96	30	Pass
High	2480	1.29	30	Pass

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

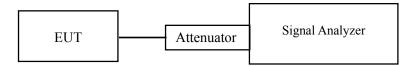
Report No.: RDG171226008-00C

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:	25 ℃	
Relative Humidity:	52 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Simon Wang on 2018-01-25.

EUT operation mode: Transmitting

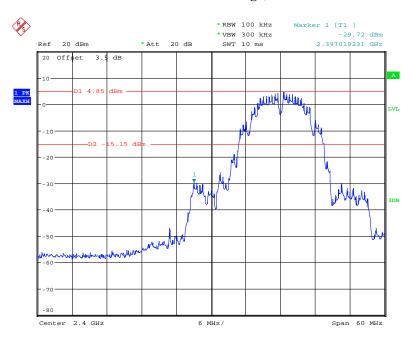
Test Result: Compliance

Please refer to the following plots.

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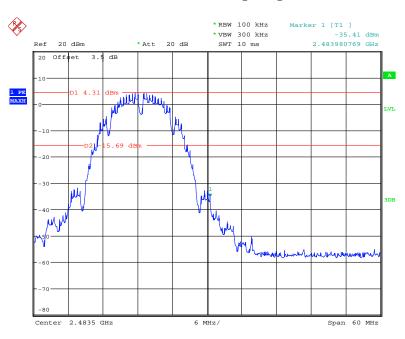
802.11b: Band Edge, Left Side

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Date: 25.JAN.2018 10:38:07

802.11b: Band Edge, Right Side

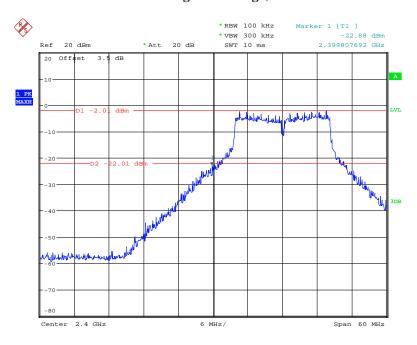


Date: 25.JAN.2018 10:39:18

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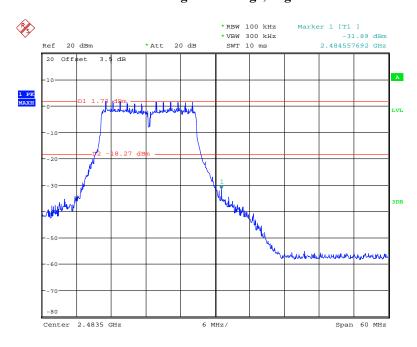
802.11g: Band Edge, Left Side

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Date: 25.JAN.2018 10:41:51

802.11g: Band Edge, Right Side

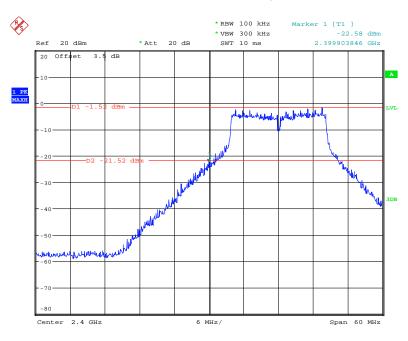


Date: 25.JAN.2018 10:42:56

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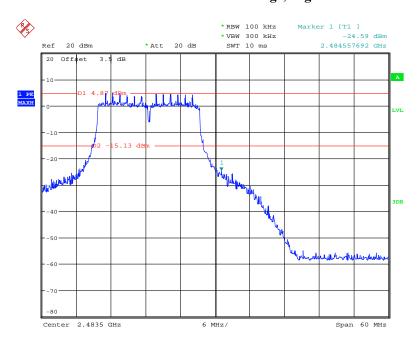
802.11n-HT20: Band Edge, Left Side

Report No.: RDG171226008-00C



Date: 25.JAN.2018 10:46:30

802.11n-HT20: Band Edge, Right Side

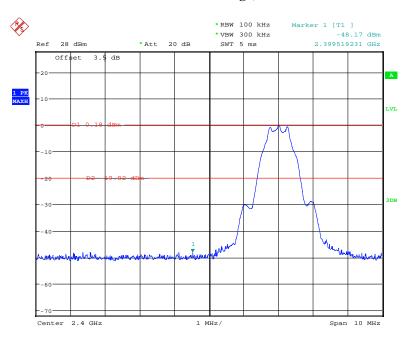


Date: 25.JAN.2018 10:47:46

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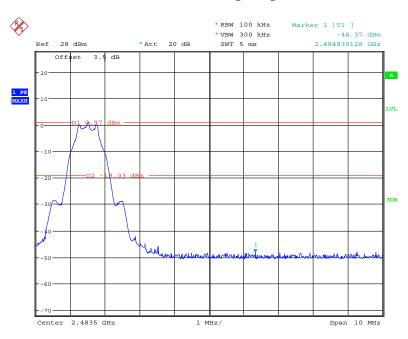
BLE: Band Edge, Left Side

Report No.: RDG171226008-00C



Date: 25.JAN.2018 13:27:39

BLE: Band Edge, Right Side



Date: 25.JAN.2018 13:28:55

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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:	25 ℃	
Relative Humidity:	52 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Simon Wang on 2018-01-25.

EUT operation mode: Transmitting

Test Result: Pass

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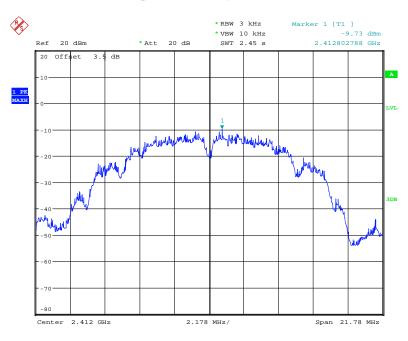
Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)		
	802.11b	mode			
Low	2412	-9.73	≤8		
Middle	2442	-5.82	≤8		
High	2472	-10.42	≤8		
	802.11g	mode			
Low	2412	-11.66	≤8		
Middle	2442	-12.57	≤8		
High	2472	-12.18	≤8		
	802.11n-HT20 mode				
Low	2412	-11.55	≤8		
Middle	2442	-12.70	≤8		
High	2472	-11.76	≤8		
BLE mode					
Low	2402	-15.31	≤8		
Middle	2440	-13.58	≤8		
High	2480	-14.23	≤8		

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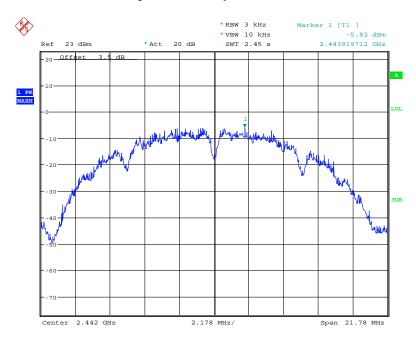
Power Spectral Density, 802.11b Low Channel

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Date: 25.JAN.2018 10:53:54

Power Spectral Density, 802.11b Middle Channel

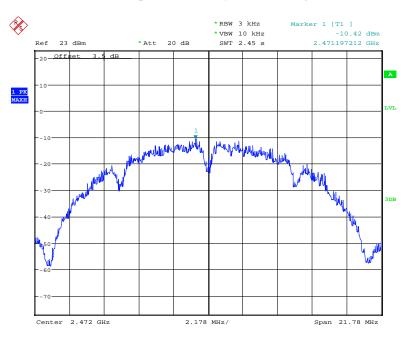


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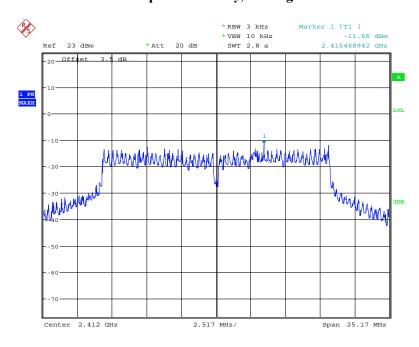
Power Spectral Density, 802.11b High Channel

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Date: 25.JAN.2018 10:55:35

Power Spectral Density, 802.11g Low Channel

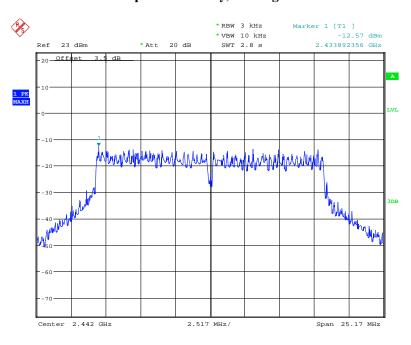


Date: 25.JAN.2018 10:57:00

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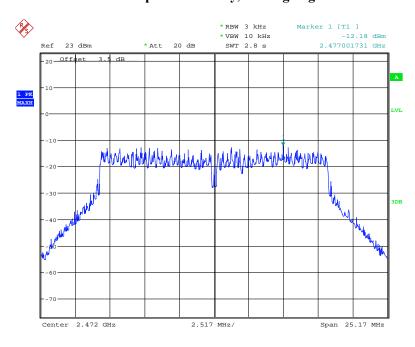
Power Spectral Density, 802.11g Middle Channel

Report No.: RDG171226008-00C



Date: 25.JAN.2018 10:57:37

Power Spectral Density, 802.11g High Channel

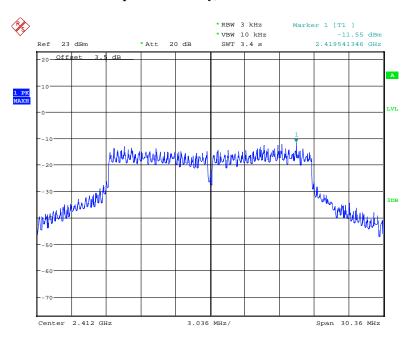


Date: 25.JAN.2018 10:58:12

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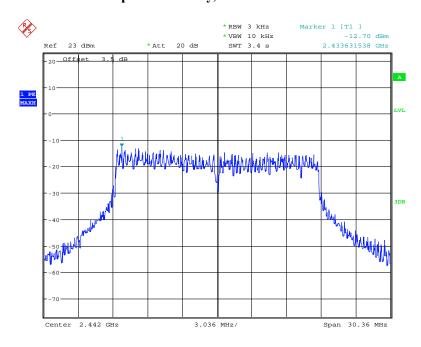
Power Spectral Density, 802.11n-HT20 Low Channel

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Date: 25.JAN.2018 11:09:39

Power Spectral Density, 802.11n-HT20 Middle Channel

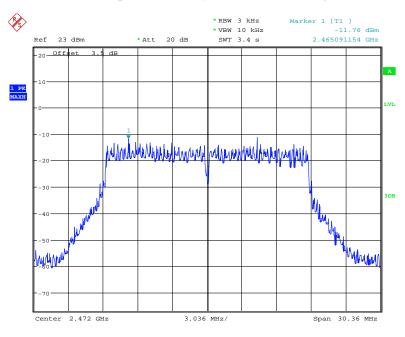


Date: 25.JAN.2018 11:10:12

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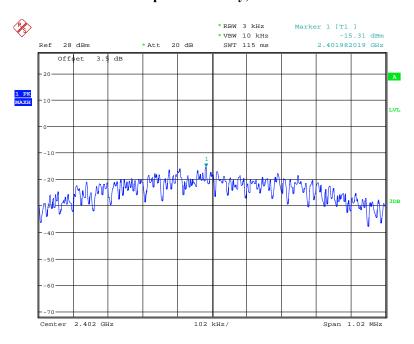
Power Spectral Density, 802.11n-HT20 High Channel

Report No.: RDG171226008-00C



Date: 25.JAN.2018 11:11:36

Power Spectral Density, BLE Low Channel

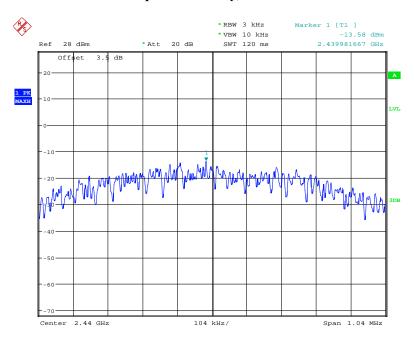


Date: 25.JAN.2018 13:32:34

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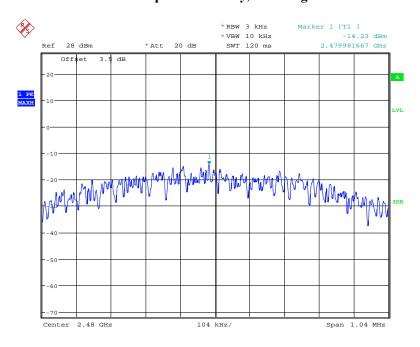
Power Spectral Density, BLE Middle Channel

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Date: 25.JAN.2018 13:31:26

Power Spectral Density, BLE High Channel



Date: 25.JAN.2018 13:30:44

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

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