



FCC PART 15.247 TEST REPORT

For

Shanghai LeXiang Technology Co., Ltd.

Floor 6, Building 8, Yanjiaqiao Road, Pudong Area, Shanghai, China

FCC ID: 2AJPQ-P1

Report Type: Original Report		Product Type: DPVR Personal Cinema
Test Engineer:	Max Min	Max Min
Report Number:	RSHA18081500	08-00C
Report Date:	2018-09-18	
Reviewed By:	Oscar Ye RF Leader	Oscar. Ye
Prepared By:		88934268

Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

TABLE OF CONTENTS

GENERAL INFORMATION	
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	
OBJECTIVE	
Related Submittal(s)/Grant(s) Test Methodology	
MEASUREMENT UNCERTAINTY	
TEST FACILITY	
SYSTEM TEST CONFIGURATION	6
DESCRIPTION OF TEST CONFIGURATION	6
EQUIPMENT MODIFICATIONS	6
EUT Exercise Software	6
SUPPORT EQUIPMENT LIST AND DETAILS	
EXTERNAL I/O CABLEBLOCK DIAGRAM OF TEST SETUP	9
SUMMARY OF TEST RESULTS	
TEST EQUIPMENT LIST	
FCC§15.247 (i), §1.1310& §2.1093 –RF EXPOSURE	
FCC §15.203 - ANTENNA REQUIREMENT	
APPLICABLE STANDARD	
Antenna Connector Construction	
FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS	
APPLICABLE STANDARD	
EUT SETUPEMI TEST RECEIVER SETUP	
TEST PROCEDURE	
CORRECTED FACTOR & MARGIN CALCULATION	17
Test Results Summary	17
TEST DATA	
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS	
APPLICABLE STANDARD	
EUT SETUP	
EMI TEST RECEIVER SETUP	
TEST PROCEDURE	
TEST RESULTS SUMMARY	
Test Data	
FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH	50
APPLICABLE STANDARD	50
Test Procedure	
TEST DATA	
FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER	
APPLICABLE STANDARD	
TEST PROCEDURE	
FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE	
APPLICABLE STANDARD	
TEST PROCEDURE	

Bay A	rea Comi	oliance	Laboratories	Corp.	(Kunshan)
-------	----------	---------	--------------	-------	-----------

 TEST DATA
 62

 FCC §15.247(e) - POWER SPECTRAL DENSITY
 67

 APPLICABLE STANDARD
 67

 TEST PROCEDURE
 67

 TEST DATA
 67

Report No.: RSHA180815008-00C

FCC Part 15.247 Page 3 of 74

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	Shanghai LeXiang Technology Co., Ltd.
Tested Model:	DPVR P1
Product Type:	DPVR Personal Cinema
Dimension:	212.5mm(L)*106.3mm(W)*133.3mm(H)
Power Supply:	DC 3.8V from Li-ion battery and DC 5.0V charging by adapter

Report No.: RSHA180815008-00C

Adapter Information: Model: S010WU0500200

Input: AC 100-240V, 50/60Hz, 400mA

Output: DC 5.0V, 2000mA

Objective

This report is prepared on behalf of *Shanghai LeXiang Technology Co., Ltd.* in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commissions rules.

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

Related Submittal(s)/Grant(s)

FCC Part 15.247 DSS and Part 15.407 NII submittals with FCC ID: 2AJPQ-P1.

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 FCC KDB558074 D01 15.247 Meas Guidance v05.

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

FCC Part 15.247 Page 4 of 74

^{*}All measurement and test data in this report was gathered from production sample serial number: 20180815008. (Assigned by the BACL. The EUT supplied by the applicant was received on 2018-08-15)

Measurement Uncertainty

Item		Uncertainty
AC Power Lines Conducted Emissions		3.19dB
RF conduct	ed test with spectrum	0.9dB
RF Output Po	ower with Power meter	0.5dB
	30MHz~1GHz	6.11dB
D. Fate Landing	1GHz~6GHz	4.45dB
Radiated emission	6GHz~18GHz	5.23dB
	18GHz~40GHz	5.65dB
Оссир	pied Bandwidth	0.5kHz
Temperature		1.0℃
Humidity		6%

Report No.: RSHA180815008-00C

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu province, China.

Bay Area Compliance Laboratories Corp. (Kunshan) Lab is accredited to ISO/IEC 17025 by A2LA (Lab code: 4323.01) and the FCC designation No. CN1185 under the FCC KDB 974614 D01. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

FCC Part 15.247 Page 5 of 74

SYSTEM TEST CONFIGURATION

Description of Test Configuration

Test channel list is as below:

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

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

Report No.: RSHA180815008-00C

For BLE mode, EUT was tested with channel 0, 19 and 39.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2442
1	2404		
18	2438	38	2478
19	2440	39	2480

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

RF test tool: Ampak RFTestTool

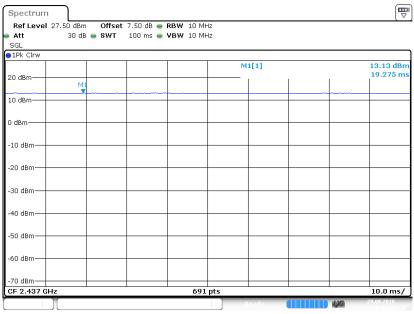
Mode	Data Rate	Power Level
802.11b	1 Mbps	40
802.11g	6 Mbps	20
802.11n-HT20	MCS0	16
BLE	1Mbps	N/A (software default)

FCC Part 15.247 Page 6 of 74

Duty Cycle:

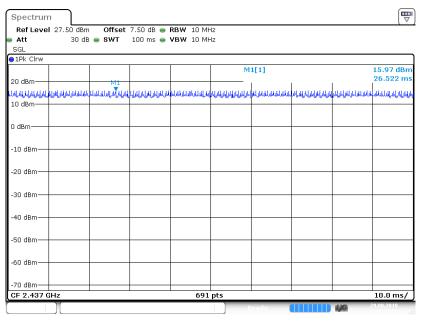
802.11b Mode Middle Channel

Report No.: RSHA180815008-00C



Date: 29 AUG .2018 19:49:03

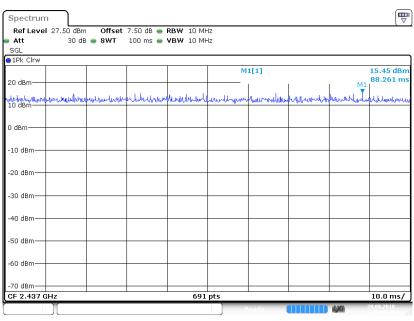
802.11g Mode Middle Channel



Date: 29 AUG .2018 15:44:59

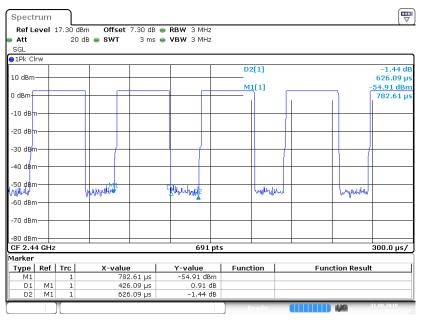
FCC Part 15.247 Page 7 of 74

Report No.: RSHA180815008-00C



Date: 29 AUG .2018 16:10:41

BLE Mode Middle Channel



Date: 31 AUG .2018 14:46:04

FCC Part 15.247 Page 8 of 74

Mode	Duty Cycle (%)	T(us)	1/T(kHz)	10log(1/x)
802.11b	100	/	/	0
802.11g	100	/	/	0
802.11n-HT20	100	/	/	0
BLE	68.05	426	2.35	1 67

Report No.: RSHA180815008-00C

Note: "x" means the Duty Cycle.

Support Equipment List and Details

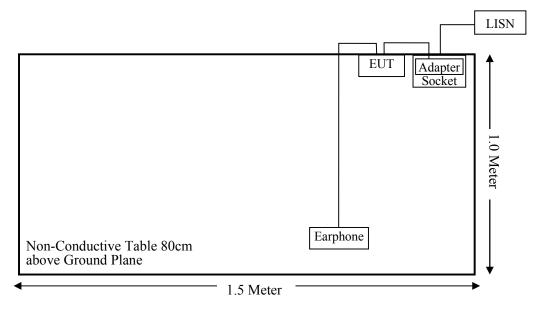
Manufacturer	Description	Model	Serial Number
Apple	Earphone	/	/

External I/O Cable

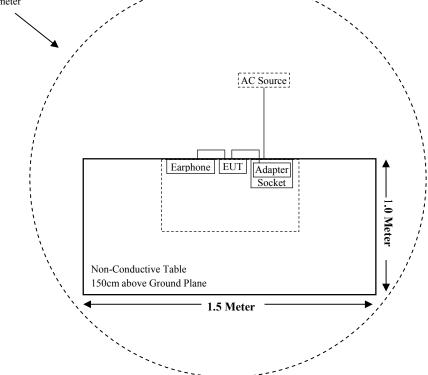
Cable Description	Length (m)	From Port	To
USB Cable	0.8	EUT	Adapter

Block Diagram of Test Setup

For Conducted Emissions:



FCC Part 15.247 Page 9 of 74



FCC Part 15.247 Page 10 of 74

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (i), §1.1310& §2.1093	RF Exposure	Compliant
§15.203	Antenna Requirement	Compliant
§15.207 (a)	AC Line Conducted Emissions	Compliant
§15.247(d)	Spurious Emissions at Antenna Port	Compliant
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliant
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliant
§15.247(b)(3)	Maximum Conducted Output Power	Compliant
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliant
§15.247(e)	Power Spectral Density	Compliant

Report No.: RSHA180815008-00C

FCC Part 15.247 Page 11 of 74

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
	Radiated Em	ission Test (Chan			
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2017-11-12	2018-11-11
Sunol Sciences	Broadband Antenna	JB3	A090413-1	2016-12-26	2019-12-25
Sonoma Instrunent	Pre-amplifier	310N	171205	2018-08-15	2019-08-14
Rohde & Schwarz	Auto test Software	EMC32	100361	/	/
MICRO-COAX	Coaxial Cable	Cable-8	008	2018-08-15	2019-08-14
MICRO-COAX	Coaxial Cable	Cable-9	009	2018-08-15	2019-08-14
MICRO-COAX	Coaxial Cable	Cable-10	010	2018-08-15	2019-08-14
	Radiated Em	ission Test (Chan	nber 2#)		
Rohde & Schwarz	EMI Test Receiver	ESU40	100207	2018-08-26	2019-08-25
Rohde & Schwarz	EMI Test Receiver	ESU40	100207	2018-08-26	2019-08-25
ETS-LINDGREN	Horn Antenna	3115	6229	2016-01-11	2019-01-10
ETS-LINDGREN	Horn Antenna	3116	00084159	2016-10-18	2019-10-17
Mini-Circuits	Amplifier	ZVA-183W-S+	220701818	2018-05-20	2019-05-19
EM Electronics Corporation	Amplifier	EM18G40G	060726	2018-03-22	2019-03-21
MICRO-TRONICS	Band notch Filter	BRM50702	/	2018-08-05	2019-08-04
Narda	Attenuator/10dB	10dB	/	2018-08-15	2019-08-14
Rohde & Schwarz	Auto test Software	EMC32	100361	/	/
MICRO-COAX	Coaxial Cable	Cable-6	006	2018-08-15	2019-08-14
MICRO-COAX	Coaxial Cable	Cable-11	011	2018-08-15	2019-08-14
MICRO-COAX	Coaxial Cable	Cable-12	012	2018-08-15	2019-08-14
MICRO-COAX	Coaxial Cable	Cable-13	013	2018-08-15	2019-08-14
	R	F Conducted Test			
Narda	Attenuator/6dB	10690812-2	26850-6	2018-01-10	2019-01-09
Rohde & Schwarz	Signal Analyzer	FSV40	101116	2018-07-23	2019-07-22
Agilent	Power Meter	N1912A	MY5000492	2017-11-18	2018-11-17
Agilent	Power Sensor	N1921A	MY54210024	2017-11-18	2018-11-17
Shanghai LeXiang	RF Cable	LeXiangC01	C01	Each Time	/
	Cond	lucted Emission Te	est		
Rohde & Schwarz	EMI Test Receiver	ESCS30	834115/007	2017-11-12	2018-11-11
Rohde & Schwarz	LISN	ESH3-Z5	862770/011	2017-11-12	2018-11-11
BACL	Auto test Software	BACL-EMC	CE001	/	/
Narda	Attenuator/6dB	10690812-2	26850-6	2018-01-10	2019-01-09
MICRO-COAX	Coaxial Cable	Cable-15	015	2018-08-15	2019-08-14

Report No.: RSHA180815008-00C

FCC Part 15.247 Page 12 of 74

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Kunshan) 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), §1.1310& §2.1093 –RF EXPOSURE

Applicable Standard

According to §1.1310 and §2.1093, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

Report No.: RSHA180815008-00C

According to KDB447498 D01 General RF Exposure Guidance v06:

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

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

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

Measurement Result

		Target Out	put Power	Minimum test separation distance
Mode	Frequency Range (MHz)	(dBm)	(mW)	required for the exposure conditions (mm)
BT3.0	2402-2480	6.0	3.98	5.00
BLE	2402-2480	3.0	2.00	5.00
2.4G Wi-Fi	2412-2462	9.7	9.33	5.00
5G Wi-Fi	5150-5250	3.4	2.19	5.00
SO MI-LI	5725-5850	3.2	2.09	5.00

Note: 1. The target output power was declared by the manufacturer.

2. BT3.0, BLE, 2.4 GHz & 5 GHz Wi-Fi share a same antenna and can't transmit simultaneously.

FCC Part 15.247 Page 13 of 74

Result:

For BT3.0: [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [$\sqrt{f(GHz)}$]= 3.98/5* $\sqrt{2.48}$ =1.3 <3.0.

Report No.: RSHA180815008-00C

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

• [√f(GHz)]= 2.00/5*√2.48=0.6<3.0

For 2.4G Wi-Fi: [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • $[\sqrt{f(GHz)}] = 9.33/5*\sqrt{2.462} = 2.9 < 3.0$

For 5G Wi-Fi: [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • $[\sqrt{f(GHz)}] = 2.09/5*\sqrt{5.85} = 1.0 < 3.0$

So the stand-alone SAR evaluation is not necessary.

FCC Part 15.247 Page 14 of 74

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

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

Report No.: RSHA180815008-00C

- 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 a FPC antenna for 2.4G Wi-Fi & BLE and the antenna gain is 2.79dBi, which uses a unique coupling to the intentional radiator; fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliance.

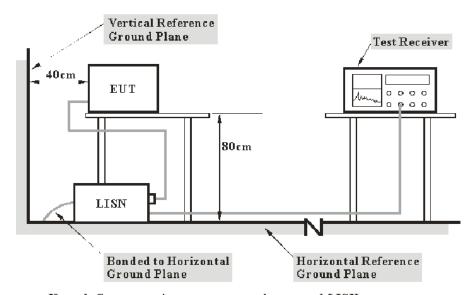
FCC Part 15.247 Page 15 of 74

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a)

EUT Setup



Report No.: RSHA180815008-00C

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.

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.

FCC Part 15.247 Page 16 of 74

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:

Corrected Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)

Report No.: RSHA180815008-00C

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

Margin (dB) = Limit (dB μ V) - Corrected Amplitude (dB μ V)

Test Results Summary

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

Test Data

Environmental Conditions

Temperature:	24.1 ℃
Relative Humidity:	50 %
ATM Pressure:	101.2kPa

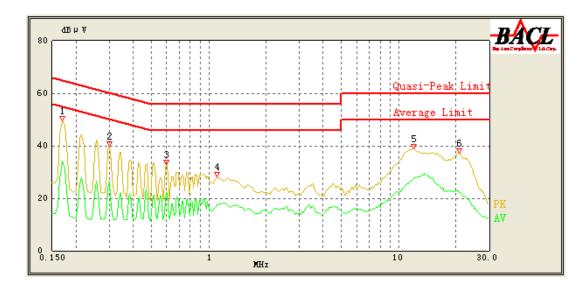
The testing was performed by Max Min on 2018-09-06.

FCC Part 15.247 Page 17 of 74

Data for Wi-Fi:

EUT operation mode: Transmitting in high channel of 802.11g mode. (Worst case)

AC 120V/60 Hz, Line

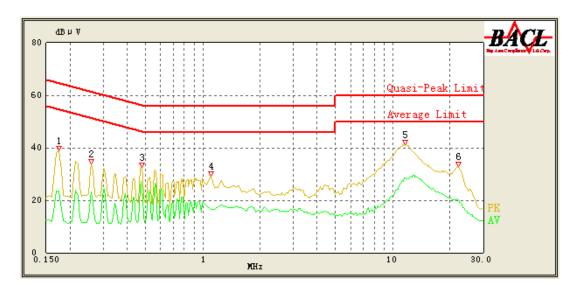


Report No.: RSHA180815008-00C

Frequency (MHz)	Corrected Amplitude (dBµV)	Detector (PK/AV/QP)	Bandwidth (kHz)	Line	Corrected Factor (dB)	Limit (dBµV)	Margin (dB)	Comment
0.170	49.63	QP	9.000	L1	16.04	64.96	15.33	Compliance
0.170	34.24	AV	9.000	L1	16.04	54.96	20.72	Compliance
0.300	39.91	QP	9.000	L1	16.03	60.24	20.33	Compliance
0.300	26.39	AV	9.000	L1	16.03	50.24	23.85	Compliance
0.595	32.75	QP	9.000	L1	16.02	56.00	23.25	Compliance
0.595	22.46	AV	9.000	L1	16.02	46.00	23.54	Compliance
1.100	28.17	QP	9.000	L1	15.88	56.00	27.83	Compliance
1.100	17.65	AV	9.000	L1	15.88	46.00	28.35	Compliance
11.950	38.68	QP	9.000	L1	16.12	60.00	21.32	Compliance
11.900	27.23	AV	9.000	L1	16.12	50.00	22.77	Compliance
20.800	37.25	QP	9.000	L1	16.44	60.00	22.75	Compliance
20.850	22.27	AV	9.000	L1	16.44	50.00	27.73	Compliance

FCC Part 15.247 Page 18 of 74

AC 120V/60 Hz, Neutral



Report No.: RSHA180815008-00C

Frequency (MHz)	Corrected Amplitude (dBµV)	Detector (PK/AV/QP)	Bandwidth (kHz)	Line	Corrected Factor (dB)	Limit (dBµV)	Margin (dB)	Comment
0.175	38.87	QP	9.000	N	16.06	64.72	25.85	Compliance
0.175	23.48	AV	9.000	N	16.06	54.72	31.24	Compliance
0.260	33.67	QP	9.000	N	16.06	61.43	27.76	Compliance
0.260	23.25	AV	9.000	N	16.06	51.43	28.18	Compliance
0.480	32.49	QP	9.000	N	16.11	56.34	23.85	Compliance
0.480	27.24	AV	9.000	N	16.10	46.34	19.10	Compliance
1.100	29.15	QP	9.000	N	15.94	56.00	26.85	Compliance
1.100	16.55	AV	9.000	N	15.94	46.00	29.45	Compliance
11.600	41.26	QP	9.000	N	16.00	60.00	18.74	Compliance
11.700	28.24	AV	9.000	N	16.00	50.00	21.76	Compliance
22.150	32.87	QP	9.000	N	16.19	60.00	27.13	Compliance
22.300	19.68	AV	9.000	N	16.20	50.00	30.32	Compliance

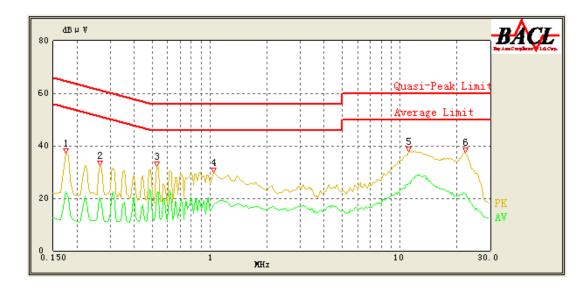
1) Corrected Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB) 2) Margin (dB) = Limit (dB μ V) - Corrected Amplitude (dB μ V)

FCC Part 15.247 Page 19 of 74

Data for BLE:

EUT operation mode: Transmitting in low channel. (Worst case)

AC 120V/60 Hz, Line

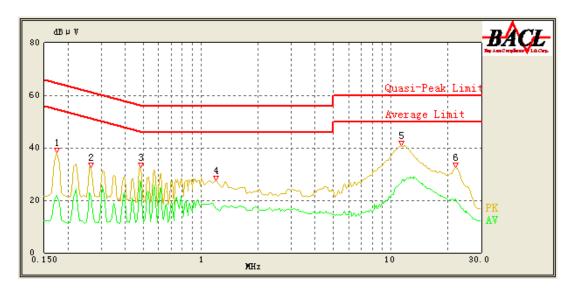


Report No.: RSHA180815008-00C

Frequency (MHz)	Corrected Amplitude (dBµV)	Detector (PK/AV/QP)	Bandwidth (kHz)	Line	Corrected Factor (dB)	Limit (dBµV)	Margin (dB)	Comment
0.175	37.32	QP	9.000	L1	16.03	64.72	27.40	Compliance
0.175	22.50	AV	9.000	L1	16.03	54.72	32.22	Compliance
0.265	32.34	QP	9.000	L1	16.03	61.27	28.93	Compliance
0.265	20.17	AV	9.000	L1	16.03	51.27	31.10	Compliance
0.525	32.01	QP	9.000	L1	16.06	56.00	23.99	Compliance
0.525	21.26	AV	9.000	L1	16.06	46.00	24.74	Compliance
1.050	29.83	QP	9.000	L1	15.88	56.00	26.17	Compliance
1.050	17.51	AV	9.000	L1	15.88	46.00	28.49	Compliance
11.150	37.74	QP	9.000	L1	16.09	60.00	22.26	Compliance
11.200	25.99	AV	9.000	L1	16.10	50.00	24.01	Compliance
22.100	37.41	QP	9.000	L1	16.45	60.00	22.59	Compliance
22.100	21.56	AV	9.000	L1	16.45	50.00	28.44	Compliance

FCC Part 15.247 Page 20 of 74

AC 120V/60 Hz, Neutral



Report No.: RSHA180815008-00C

Frequency (MHz)	Corrected Amplitude (dBµV)	Detector (PK/AV/QP)	Bandwidth (kHz)	Line	Corrected Factor (dB)	Limit (dBµV)	Margin (dB)	Comment
0.175	38.13	QP	9.000	N	16.06	64.72	26.59	Compliance
0.175	21.73	AV	9.000	N	16.06	54.72	32.99	Compliance
0.265	32.59	QP	9.000	N	16.06	61.27	28.68	Compliance
0.265	21.73	AV	9.000	N	16.06	51.27	29.54	Compliance
0.485	32.49	QP	9.000	N	16.11	56.25	23.76	Compliance
0.485	26.52	AV	9.000	N	16.11	46.25	19.73	Compliance
1.200	27.57	QP	9.000	N	15.93	56.00	28.43	Compliance
1.200	16.96	AV	9.000	N	15.93	46.00	29.04	Compliance
11.400	40.82	QP	9.000	N	16.00	60.00	19.18	Compliance
11.400	26.73	AV	9.000	N	16.00	50.00	23.27	Compliance
22.050	32.40	QP	9.000	N	16.19	60.00	27.60	Compliance
22.000	20.46	AV	9.000	N	16.19	50.00	29.54	Compliance

1) Corrected Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB) 2) Margin (dB) = Limit (dB μ V) - Corrected Amplitude (dB μ V)

FCC Part 15.247 Page 21 of 74

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

Report No.: RSHA180815008-00C

Applicable Standard

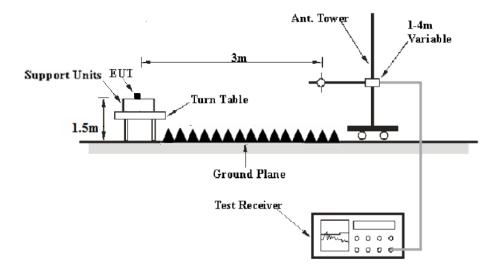
FCC §15.247 (d); §15.209; §15.205;

EUT Setup

Below 1 GHz:



Above 1GHz:



FCC Part 15.247 Page 22 of 74

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.

Report No.: RSHA180815008-00C

EMI Test Receiver Setup

The system was investigated from 30 MHz to 25 GHz.

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

Frequency Range	Frequency Range RBW		IF B/W	Detector
30 MHz – 1000 MHz 120 kHz		300 kHz	120 kHz	QP
About 1CHo	1MHz	3 MHz	/	PK
Above 1GHz	1MHz	3 MHz	/	Ave.

Test Procedure

According to ANSI C63.10-2013 clause 6.5, 6.6 and 6.7.

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 mode 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 ($dB\mu V/m$) = Meter Reading ($dB\mu V$) + Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Gain (dB)

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 (dB) = Limit (dB μ V/m) – Corrected Amplitude (dB μ V/m)

Test Results Summary

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

FCC Part 15.247 Page 23 of 74

Test Data

Environmental Conditions

Temperature:	24.1-24.4 ℃
Relative Humidity:	49-50 %
ATM Pressure:	101.1-101.2kPa

The testing was performed by Max Min from 2018-08-29 to 2018-09-16.

EUT operation mode: Transmitting

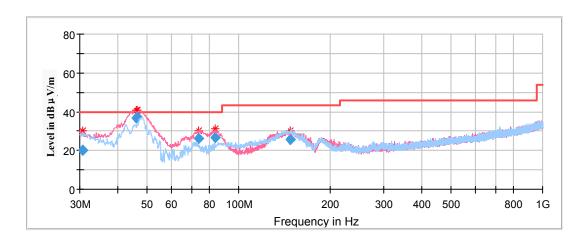
Data for Wi-Fi:

Spurious Emission Test:

30MHz-1GHz:

Pre-scan with 802.11b, 802.11g and 802.11n-HT20 modes of operation in the X,Y and Z axes of orientation, the worst case high channel of 802.11g mode in X-axis of orientation was recorded

Report No.: RSHA180815008-00C



Frequency	Frequency Corrected Amplitude Rx Antenna		Turntable	Corrected	Limit	Margin	
(MHz)	QuasiPeak (dBµV/m)	Height (cm)	Polar (H/V)	Degree	Factor (dB/m)	$(dB\mu V/m)$	(dB)
30.783200	20.35	101.0	V	304.0	-4.5	40.00	19.65
46.101800	36.80	101.0	V	314.0	-14.9	40.00	3.20
46.384400	37.14	101.0	V	102.0	-15.1	40.00	2.86
74.041200	26.28	101.0	V	221.0	-17.5	40.00	13.72
83.656850	26.54	101.0	V	81.0	-17.7	40.00	13.46
148.027300	25.57	199.0	Н	14.0	-12.3	43.50	17.93

FCC Part 15.247 Page 24 of 74

1GHz-18GHz:

802.11b Mode:

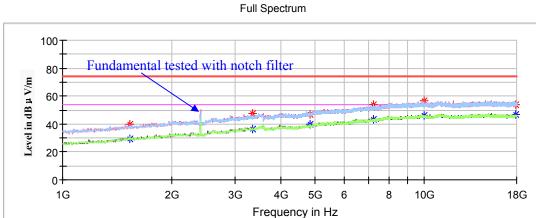
(Pre-scan in the X,Y and Z axes of orientation, the worst case X-axis of orientation was recorded)

Note:

- 1. This test was performed with the 2.4-2.5GHz notch filter.
- 2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) Amplifier Factor (dB) Corrected Amplitude ($dB\mu V/m$) = Corrected Factor (dB/m) + Reading ($dB\mu V$) Margin (dB) = Limit (dB μ V/m) – Corrected Amplitude (dB μ V/m)

Low Channel: 2412MHz

Report No.: RSHA180815008-00C



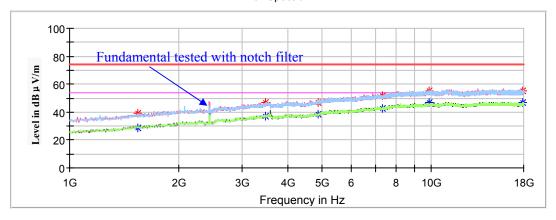
Frequency	Corrected A	orrected Amplitude Rx Antenna Tur		Turntable	Corrected	Limit	Margin	
(MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)	Degree	Factor (dB/m)	(dBµV/m)	(dB)
1533.800000	39.62		150.0	V	276.0	-1.0	74.00	34.38
1533.800000		29.67	150.0	V	276.0	-1.0	54.00	24.33
3342.600000	47.53		100.0	V	7.0	6.9	74.00	26.47
3342.600000		36.42	100.0	V	7.0	6.9	54.00	17.58
4824.000000	47.19		250.0	V	292.0	10.8	74.00	26.81
4824.000000		39.77	250.0	V	292.0	10.8	54.00	14.23
7236.000000	53.65		100.0	V	153.0	15.3	74.00	20.35
7236.000000		43.03	100.0	V	153.0	15.3	54.00	10.97
9972.600000		46.21	200.0	V	243.0	18.3	54.00	7.79
9976.000000	56.54		200.0	V	243.0	18.3	74.00	17.46
17853.800000	54.00		100.0	Н	126.0	19.0	74.00	20.00
17853.800000		46.84	100.0	Н	126.0	19.0	54.00	7.16

FCC Part 15.247 Page 25 of 74

Middle Channel: 2437MHz

Report No.: RSHA180815008-00C

Full Spectrum



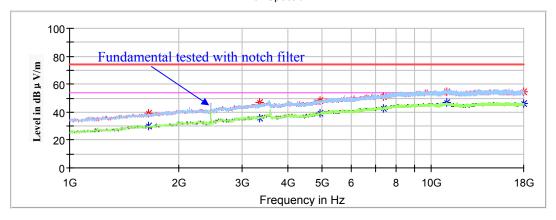
Frequency	Corrected A	Amplitude	Rx A	ntenna	Turntable	Corrected	Limit	Margin
(MHz)	MaxPeak (dBμV/m)	Average (dBµV/m)	Height (cm)	Polar (H/V)	Degree	Factor (dB/m)	(dBµV/m)	(dB)
1544.000000	39.16		200.0	V	116.0	-0.9	74.00	34.84
1544.000000		28.73	200.0	V	116.0	-0.9	54.00	25.27
3475.200000	47.08		100.0	Н	217.0	7.2	74.00	26.92
3475.200000		36.93	100.0	Н	217.0	7.2	54.00	17.07
4874.000000		38.66	100.0	V	144.0	11.1	54.00	15.34
4874.000000	46.97		100.0	V	144.0	11.1	74.00	27.03
7311.000000	51.57		200.0	V	135.0	15.4	74.00	22.43
7311.000000		42.52	200.0	V	135.0	15.4	54.00	11.48
9833.200000	55.00		100.0	V	284.0	18.1	74.00	19.00
9836.600000		47.05	100.0	V	284.0	18.1	54.00	6.95
17921.800000		47.01	200.0	Н	336.0	19.1	54.00	6.99
17925.200000	55.58		200.0	Н	336.0	19.1	74.00	18.42

FCC Part 15.247 Page 26 of 74

High Channel: 2462MHz

Report No.: RSHA180815008-00C

Full Spectrum



Frequency	Corrected .	Amplitude	Rx A	ntenna	- Turntable	Corrected	Limit	Margin
(MHz)	MaxPeak (dBμV/m)	Average (dBµV/m)	Height (cm)	Polar (H/V)	Degree	Factor (dB/m)	(dBµV/m)	(dB)
1656.200000	39.17		200.0	V	302.0	-0.1	74.00	34.83
1656.200000		29.78	200.0	V	302.0	-0.1	54.00	24.22
3356.200000	46.83		100.0	V	189.0	6.9	74.00	27.17
3356.200000		35.96	100.0	V	189.0	6.9	54.00	18.04
4924.000000	47.95		200.0	V	294.0	11.3	74.00	26.05
4924.000000		38.96	200.0	V	294.0	11.3	54.00	15.04
7386.000000	51.06		200.0	V	217.0	15.5	74.00	22.94
7386.000000		42.64	200.0	V	217.0	15.5	54.00	11.36
11016.400000	54.45		150.0	V	116.0	19.0	74.00	19.55
11016.400000		47.16	150.0	V	116.0	19.0	54.00	6.84
17986.400000	54.82		200.0	Н	169.0	19.2	74.00	19.18
17986.400000		46.43	200.0	Н	169.0	19.2	54.00	7.57

FCC Part 15.247 Page 27 of 74

802.11g Mode:

(Pre-scan in the X,Y and Z axes of orientation, the worst case X-axis of orientation was recorded)

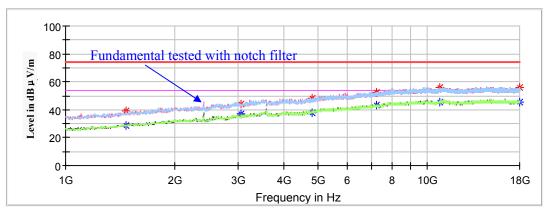
Note:

- 1. This test was performed with the 2.4-2.5GHz notch filter.
- 2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) Amplifier Factor (dB) Corrected Amplitude (dB μ V /m) = Corrected Factor (dB/m) + Reading (dB μ V) Margin (dB) = Limit (dB μ V/m) Corrected Amplitude (dB μ V /m)

Low Channel: 2412MHz

Report No.: RSHA180815008-00C





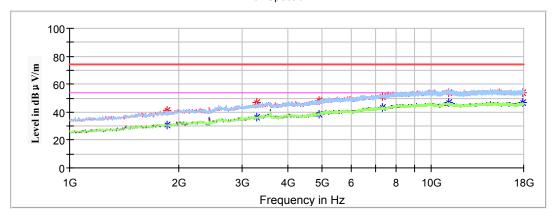
Frequency	Corrected	Amplitude	Rx A	ntenna	Turntable	Corrected	Limit	Margin
(MHz)	MaxPeak (dBμV/m)	Average (dBµV/m)	Height (cm)	Polar (H/V)	Degree	Factor (dB/m)	(dBµV/m)	(dB)
1469.200000		28.73	150.0	Н	114.0	-1.4	54.00	25.27
1469.200000	39.43		150.0	Н	114.0	-1.4	74.00	34.57
3053.600000		37.00	150.0	Н	260.0	6.1	54.00	17.00
3053.600000	44.26		150.0	Н	260.0	6.1	74.00	29.74
4824.000000		37.84	200.0	V	296.0	10.8	54.00	16.16
4824.000000	48.47		200.0	V	296.0	10.8	74.00	25.53
7236.000000		43.12	100.0	V	265.0	15.3	54.00	10.88
7236.000000	52.63		100.0	V	265.0	15.3	74.00	21.37
10795.400000		45.15	200.0	V	4.0	18.5	54.00	8.85
10795.400000	55.81		200.0	V	4.0	18.5	74.00	18.19
17952.400000		45.65	100.0	V	257.0	19.1	54.00	8.35
17952.400000	55.86		100.0	V	257.0	19.1	74.00	18.14

FCC Part 15.247 Page 28 of 74

Middle Channel: 2437MHz

Report No.: RSHA180815008-00C

Full Spectrum



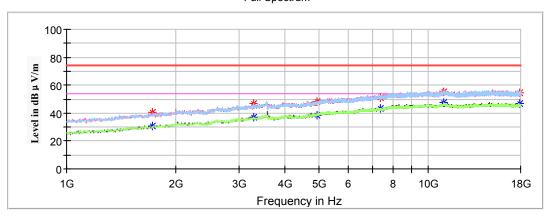
Frequency	Corrected .	Amplitude	Rx A	ntenna	Turntable	Corrected	Limit	Margin
(MHz)	MaxPeak (dBμV/m)	Average (dBµV/m)	Height (cm)	Polar (H/V)	Degree	Factor (dB/m)	(dBµV/m)	(dB)
1856.800000	41.42		250.0	Н	208.0	1.2	74.00	32.58
1856.800000		30.83	250.0	Н	208.0	1.2	54.00	23.17
3281.400000	46.98		100.0	Н	229.0	6.7	74.00	27.02
3281.400000		36.45	100.0	Н	229.0	6.7	54.00	17.55
4874.000000	48.03		100.0	V	287.0	11.1	74.00	25.97
4874.000000		38.41	100.0	V	287.0	11.1	54.00	15.59
7311.000000	50.72		200.0	V	77.0	15.4	74.00	23.28
7311.000000		43.14	200.0	V	77.0	15.4	54.00	10.86
11196.600000	53.81		150.0	V	106.0	18.8	74.00	20.19
11196.600000		46.73	150.0	V	106.0	18.8	54.00	7.27
17867.400000	54.04		200.0	Н	297.0	19.0	74.00	19.96
17867.400000		46.79	200.0	Н	297.0	19.0	54.00	7.21

FCC Part 15.247 Page 29 of 74

High Channel: 2462MHz

Report No.: RSHA180815008-00C

Full Spectrum



Frequency	Corrected .	Amplitude	Rx A	ntenna	Turntable	Corrected	Limit	Margin
(MHz)	MaxPeak (dBμV/m)	Average (dBµV/m)	Height (cm)	Polar (H/V)	Degree	Factor (dB/m)	(dBµV/m)	(dB)
1731.000000		30.48	200.0	V	187.0	0.4	54.00	23.52
1731.000000	40.32		200.0	V	187.0	0.4	74.00	33.68
3288.200000	46.83		150.0	Н	329.0	6.7	74.00	27.17
3288.200000		36.95	150.0	Н	329.0	6.7	54.00	17.05
4924.000000	48.22		200.0	V	33.0	11.3	74.00	25.78
4924.000000		38.43	200.0	V	33.0	11.3	54.00	15.57
7386.000000	50.77		250.0	V	279.0	15.5	74.00	23.23
7386.000000		43.07	250.0	V	279.0	15.5	54.00	10.93
11036.800000	55.35		100.0	Н	189.0	19.0	74.00	18.65
11036.800000		47.33	100.0	Н	189.0	19.0	54.00	6.67
17932.000000	54.52		200.0	V	235.0	19.1	74.00	19.48
17932.000000		46.71	200.0	V	235.0	19.1	54.00	7.29

FCC Part 15.247 Page 30 of 74

802.11n-HT20 Mode:

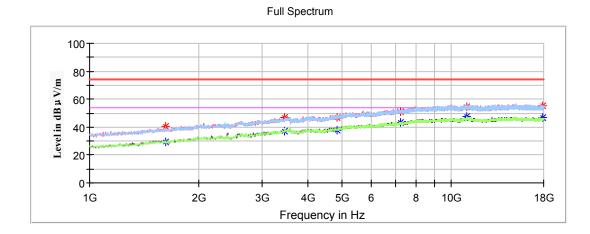
(Pre-scan in the X,Y and Z axes of orientation, the worst case X-axis of orientation was recorded)

Note:

- 1. This test was performed with the 2.4-2.5GHz notch filter.
- 2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) Amplifier Factor (dB) Corrected Amplitude (dB μ V /m) = Corrected Factor (dB/m) + Reading (dB μ V) Margin (dB) = Limit (dB μ V/m) Corrected Amplitude (dB μ V /m)

Low Channel: 2412MHz

Report No.: RSHA180815008-00C



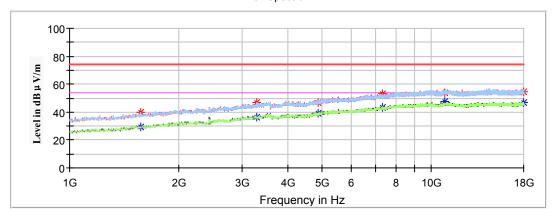
Frequency	Corrected Amplitude		Rx A	ntenna	Turntable	Corrected	Limit	Margin
(MHz)	MaxPeak (dBμV/m)	Average (dBµV/m)	Height (cm)	Polar (H/V)	Degree	Factor (dB/m)	(dBµV/m)	(dB)
1618.800000	40.47		100.0	V	20.0	-0.4	74.00	33.53
1618.800000		29.50	100.0	V	20.0	-0.4	54.00	24.50
3454.800000		36.90	100.0	V	90.0	7.1	54.00	17.10
3458.200000	46.72		100.0	V	90.0	7.1	74.00	27.28
4824.000000		38.11	250.0	V	141.0	10.8	54.00	15.89
4824.000000	46.98		250.0	V	141.0	10.8	74.00	27.02
7236.000000	50.79		150.0	V	4.0	15.3	74.00	23.21
7236.000000		43.48	150.0	V	4.0	15.3	54.00	10.52
11030.000000	54.66		200.0	Н	88.0	19.0	74.00	19.34
11030.000000		47.23	200.0	Н	88.0	19.0	54.00	6.77
17918.400000	55.09		150.0	Н	226.0	19.1	74.00	18.91
17918.400000		46.60	150.0	Н	226.0	19.1	54.00	7.40

FCC Part 15.247 Page 31 of 74

Middle Channel: 2437MHz

Report No.: RSHA180815008-00C

Full Spectrum



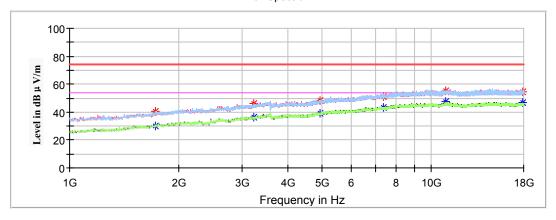
Frequency	Corrected .	Amplitude	Rx A	ntenna	Turntable	Corrected	Limit	Margin
(MHz)	MaxPeak (dBμV/m)	Average (dBµV/m)	Height (cm)	Polar (H/V)	Degree	Factor (dB/m)	(dBµV/m)	(dB)
1571.200000		29.41	250.0	Н	134.0	-0.7	54.00	24.59
1571.200000	39.61		250.0	Н	134.0	-0.7	74.00	34.39
3281.400000		36.24	150.0	Н	19.0	6.7	54.00	17.76
3281.400000	46.64		150.0	Н	19.0	6.7	74.00	27.36
4874.000000	46.65		100.0	V	227.0	11.1	74.00	27.35
4874.000000		39.39	100.0	V	227.0	11.1	54.00	14.61
7311.000000		43.21	200.0	V	12.0	15.4	54.00	10.79
7311.000000	53.10		200.0	V	12.0	15.4	74.00	20.90
10904.200000	53.75		100.0	V	51.0	18.8	74.00	20.25
10904.200000		47.33	100.0	V	51.0	18.8	54.00	6.67
17945.600000	54.24		200.0	V	149.0	19.1	74.00	19.76
17945.600000		46.89	200.0	V	149.0	19.1	54.00	7.11

FCC Part 15.247 Page 32 of 74

High Channel: 2462MHz

Report No.: RSHA180815008-00C

Full Spectrum



Enggueney	Corrected A	Amplitude	Rx A	ntenna	Turntable	Corrected	Limit	Margin
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)	Degree	Factor (dB/m)	(dBµV/m)	(dB)
1720.800000		29.75	200.0	Н	90.0	0.3	54.00	24.25
1720.800000	40.36		200.0	Н	90.0	0.3	74.00	33.64
3230.400000	46.48		100.0	V	234.0	6.6	74.00	27.52
3233.800000		36.40	100.0	V	234.0	6.6	54.00	17.60
4924.000000		38.89	250.0	V	114.0	11.3	54.00	15.11
4924.000000	48.14		250.0	V	114.0	11.3	74.00	25.86
7386.000000		43.40	200.0	V	35.0	15.5	54.00	10.60
7386.000000	51.30		200.0	V	35.0	15.5	74.00	22.70
10979.000000	55.21		100.0	V	181.0	19.0	74.00	18.79
10979.000000		47.26	100.0	V	181.0	19.0	54.00	6.74
17911.600000	54.71		250.0	V	79.0	19.1	74.00	19.29
17911.600000		46.65	250.0	V	79.0	19.1	54.00	7.35

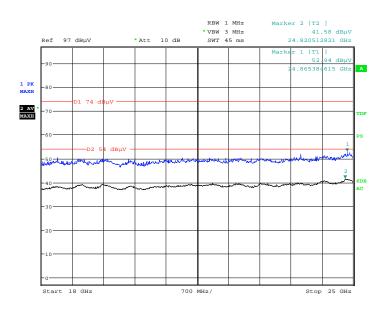
FCC Part 15.247 Page 33 of 74

18GHz-25GHz:

Pre-scan with 802.11b, 802.11g and 802.11n-HT20 modes of operation in the X,Y and Z axes of orientation, the worst case high channel of 802.11g mode in X-axis of orientation was recorded

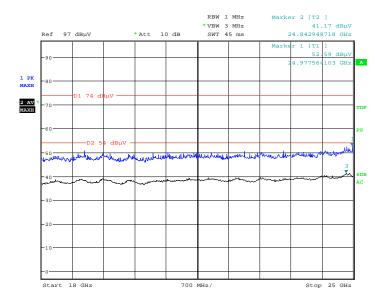
Report No.: RSHA180815008-00C

Horizontal



Date: 16.SEP.2018 16:22:07

Vertical



Date: 16.SEP.2018 16:42:04

FCC Part 15.247 Page 34 of 74

Fundamental Test & Restricted Bands Emissions Test:

Note:

1. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB) Corrected Amplitude (dB μ V /m) = Corrected Factor (dB/m) + Reading (dB μ V) Margin (dB) = Limit (dB μ V/m) – Corrected Amplitude (dB μ V /m)

802.11b Mode: (Pre-scan in the X, Y and Z axes of orientation, the worst case X-axis of orientation was recorded)

Report No.: RSHA180815008-00C

Frequency	Corrected	Amplitude	Rx A	ntenna	Turntable	Corrected	Limit	Margin		
(MHz)	MaxPeak (dBμV/m)	Average (dBµV/m)	Height (cm)	Polar (H/V)	Degree	Factor (dB/m)	(dBµV/m)	(dB)		
			Low Chan	nel: 2412M	Hz					
2412.000000	101.60		150.0	V	267.0	2.9	/	/		
2412.000000		99.97	150.0	V	267.0	2.9	/	/		
2412.000000	99.09		250.0	Н	238.0	2.9	/	/		
2412.000000		97.64	250.0	Н	238.0	2.9	/	/		
2390.000000	51.85		200.0	V	291.0	2.8	74.00	22.15		
2390.000000		42.36	200.0	V	291.0	2.8	54.00	11.64		
	Middle Channel: 2437MHz									
2437.000000	101.71		250.0	V	49.0	3.0	/	/		
2437.000000		100.06	250.0	V	49.0	3.0	/	/		
2437.000000	99.40		250.0	Н	187.0	3.0	/	/		
2437.000000		97.52	250.0	Н	187.0	3.0	/	/		
			High Char	nel: 2462M	Hz					
2462.000000	101.51		200.0	V	18.0	3.0	/	/		
2462.000000		99.94	200.0	V	18.0	3.0	/	/		
2462.000000	99.28		150.0	Н	259.0	3.0	/	/		
2462.000000		97.56	150.0	Н	259.0	3.0	/	/		
2483.500000	53.20		200.0	V	152.0	3.0	74.00	20.80		
2483.500000		43.59	200.0	V	152.0	3.0	54.00	10.41		

FCC Part 15.247 Page 35 of 74

802.11g Mode: (Pre-scan in the X, Y and Z axes of orientation, the worst case X-axis of orientation was recorded)

Report No.: RSHA180815008-00C

Frequency	Corrected	Amplitude	Rx A	ntenna	Turntable	Corrected	Limit	Margin		
(MHz)	MaxPeak (dBμV/m)	Average (dBµV/m)	Height (cm)	Polar (H/V)	Degree	Factor (dB/m)	(dBµV/m)	(dB)		
			Low Chan	nel: 2412M	Hz					
2412.000000	94.87		150.0	V	286.0	2.9	/	/		
2412.000000		87.76	150.0	V	286.0	2.9	/	/		
2412.000000	92.27		200.0	Н	124.0	2.9	/	/		
2412.000000		85.26	200.0	Н	124.0	2.9	/	/		
2390.000000	51.85		250.0	V	106.0	2.8	74.00	22.15		
2390.000000		42.36	250.0	V	106.0	2.8	54.00	11.64		
	Middle Channel: 2437MHz									
2437.000000	94.93		250.0	V	209.0	3.0	/	/		
2437.000000		87.56	250.0	V	209.0	3.0	/	/		
2437.000000	92.37		200.0	Н	36.0	3.0	/	/		
2437.000000		85.00	200.0	Н	36.0	3.0	/	/		
			High Char	nel: 2462M	Hz					
2462.000000	95.07		200.0	V	175.0	3.0	/	/		
2462.000000		87.72	200.0	V	175.0	3.0	/	/		
2462.000000	92.59		250.0	Н	133.0	3.0	/	/		
2462.000000		85.32	250.0	Н	133.0	3.0	/	/		
2483.500000	53.20		150.0	V	132.0	3.0	74.00	20.80		
2483.500000		43.59	150.0	V	132.0	3.0	54.00	10.41		

FCC Part 15.247 Page 36 of 74

802.11n-HT20 Mode: (Pre-scan in the X,Y and Z axes of orientation, the worst case X-axis of orientation was recorded)

Report No.: RSHA180815008-00C

Frequency	Corrected Amplitude		Rx A	ntenna	Turntable	Corrected	Limit	Margin
(MHz)	MaxPeak (dBμV/m)	Average (dBµV/m)	Height (cm)	Polar (H/V)	Degree	Factor (dB/m)	(dBµV/m)	(dB)
			Low Chan	nel: 2412M	Hz			
2412.000000	93.44		250.0	V	69.0	2.9	/	/
2412.000000		85.55	250.0	V	69.0	2.9	/	/
2412.000000	90.88		250.0	Н	182.0	2.9	/	/
2412.000000		83.35	250.0	Н	182.0	2.9	/	/
2390.000000	52.89		250.0	V	351.0	2.8	74.00	21.11
2390.000000		43.51	250.0	V	351.0	2.8	54.00	10.49
	Middle Channel: 2437MHz							
2437.000000	94.14		150.0	V	181.0	3.0	/	/
2437.000000		86.37	150.0	V	181.0	3.0	/	/
2437.000000	91.85		200.0	Н	198.0	3.0	/	/
2437.000000		84.06	200.0	Н	198.0	3.0	/	/
			High Char	nel: 2462M	Hz			
2462.000000	93.37		200.0	V	224.0	3.0	/	/
2462.000000		85.03	200.0	V	224.0	3.0	/	/
2462.000000	91.01		250.0	Н	224.0	3.0	/	/
2462.000000		82.49	250.0	Н	224.0	3.0	/	/
2483.500000	56.46		200.0	V	351.0	3.0	74.00	17.54
2483.500000		47.09	200.0	V	351.0	3.0	54.00	6.91

FCC Part 15.247 Page 37 of 74

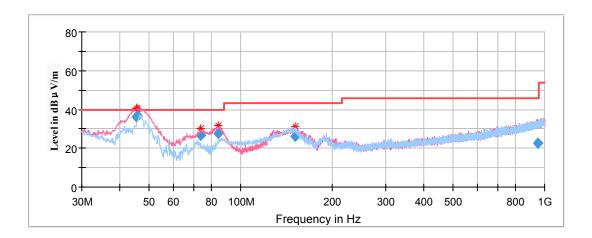
Data for BLE:

Spurious Emission Test:

30MHz-1GHz

(Pre-scan with low, middle and high channels of operation in the X,Y and Z axes of orientation, the worst case **low** channel of operation in the X axis of orientation was recorded)

Report No.: RSHA180815008-00C



Frequency	Corrected Amplitude	Rx Antenna		Turntable	Corrected	Limit	Margin
(MHz)	QuasiPeak (dB µ V/m)	Height (cm)	Polar (H/V)	Degree	Factor (dB/m)	(dBµV/m)	(dB)
45.440800	36.42	101.0	V	146.0	-14.4	40.00	3.58
45.755100	36.58	101.0	V	188.0	-14.6	40.00	3.42
73.989450	26.50	101.0	V	146.0	-17.5	40.00	13.50
84.140400	27.66	101.0	V	146.0	-17.7	40.00	12.34
150.843950	25.99	199.0	Н	31.0	-12.4	43.50	17.51
947.585450	22.55	101.0	V	307.0	1.2	46.00	23.45

FCC Part 15.247 Page 38 of 74

1GHz-18GHz

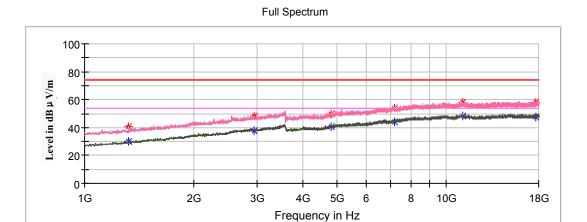
(Pre-scan in the X, Y and Z axes of orientation, the worst case X-axis of orientation was recorded)

Note:

- 1. This test was performed with the 2.4-2.5GHz notch filter.
- 2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) Amplifier Factor (dB) Corrected Amplitude (dB μ V /m) = Corrected Factor (dB/m) + Reading (dB μ V) Margin (dB) = Limit (dB μ V/m) Corrected Amplitude (dB μ V /m)

Low Channel: 2402MHz

Report No.: RSHA180815008-00C



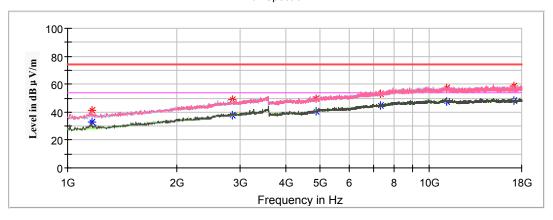
Frequency	Corrected A	Amplitude	Rx A	ntenna	Turntable	Corrected	Limit	Margin
(MHz)	MaxPeak (dBμV/m)	Average (dBµV/m)	Height (cm)	Polar (H/V)	Degree	Factor (dB/m)	(dBµV/m)	(dB)
1323.000000		29.78	150.0	Н	295.0	-2.3	54.00	24.22
1323.000000	40.35		150.0	Н	295.0	-2.3	74.00	33.65
2934.600000		37.89	100.0	Н	243.0	5.7	54.00	16.11
2934.600000	48.11		100.0	Н	243.0	5.7	74.00	25.89
4804.000000		40.73	250.0	V	97.0	10.8	54.00	13.27
4804.000000	49.95		250.0	V	97.0	10.8	74.00	24.05
7206.000000		44.13	100.0	V	111.0	15.2	54.00	9.87
7206.000000	53.78		100.0	V	111.0	15.2	74.00	20.22
11064.000000		48.09	250.0	V	164.0	19.0	54.00	5.91
11064.000000	58.11		250.0	V	164.0	19.0	74.00	15.89
17646.400000		47.71	150.0	V	242.0	18.7	54.00	6.29
17646.400000	58.04		150.0	V	242.0	18.7	74.00	15.96

FCC Part 15.247 Page 39 of 74

Middle Channel: 2440MHz

Report No.: RSHA180815008-00C

Full Spectrum



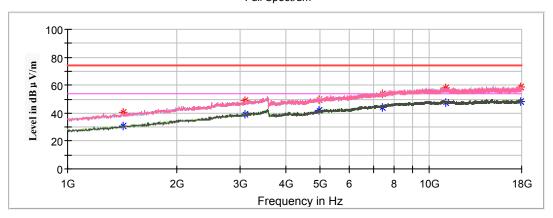
Frequency	Corrected A	Amplitude	Rx A	ntenna	Turntable	Corrected	Limit	Margin
(MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)	Degree	Factor (dB/m)	(dBµV/m)	(dB)
1166.600000		33.11	200.0	V	330.0	-3.2	54.00	20.89
1166.600000	40.92		200.0	V	330.0	-3.2	74.00	33.08
2853.000000		37.95	100.0	Н	204.0	5.2	54.00	16.05
2853.000000	49.17		100.0	Н	204.0	5.2	74.00	24.83
4880.000000		40.34	100.0	V	87.0	11.1	54.00	13.66
4880.000000	49.89		100.0	V	87.0	11.1	74.00	24.11
7320.000000		44.49	250.0	V	239.0	15.4	54.00	9.51
7320.000000	53.44		250.0	V	239.0	15.4	74.00	20.56
11166.000000		47.29	100.0	V	235.0	18.8	54.00	6.71
11166.000000	57.17		100.0	V	235.0	18.8	74.00	16.83
17139.800000	58.84		200.0	Н	54.0	18.2	74.00	15.16
17143.200000		48.39	200.0	Н	54.0	18.2	54.00	5.61

FCC Part 15.247 Page 40 of 74

High Channel: 2480MHz

Report No.: RSHA180815008-00C

Full Spectrum



Engueney	Corrected A	Amplitude	Rx A	Rx Antenna		Corrected	Limit	Margin
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)	Turntable Degree	Factor (dB/m)	(dBµV/m)	(dB)
1428.400000		30.63	250.0	V	34.0	-1.7	54.00	23.37
1428.400000	40.64		250.0	V	34.0	-1.7	74.00	33.36
3087.600000		39.04	150.0	V	105.0	6.2	54.00	14.96
3087.600000	49.13		150.0	V	105.0	6.2	74.00	24.87
4960.000000		41.79	250.0	V	62.0	11.5	54.00	12.21
4960.000000	49.82		250.0	V	62.0	11.5	74.00	24.18
7440.000000		44.21	250.0	V	172.0	15.6	54.00	9.79
7440.000000	54.12		250.0	V	172.0	15.6	74.00	19.88
11121.800000		47.59	100.0	V	325.0	18.9	54.00	6.41
11121.800000	57.91		100.0	V	325.0	18.9	74.00	16.09
17928.600000		47.96	250.0	Н	292.0	19.1	54.00	6.04
17928.600000	58.65		250.0	Н	292.0	19.1	74.00	15.35

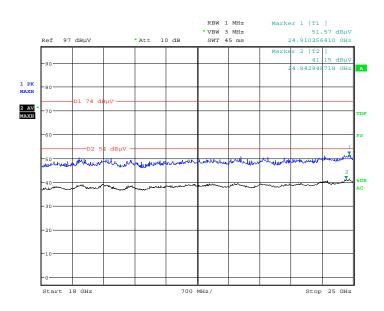
FCC Part 15.247 Page 41 of 74

18GHz-25GHz

(Pre-scan with low, middle and high channels of operation in the X,Y and Z axes of orientation, the worst case **low** channel of operation in the X axis of orientation was recorded)

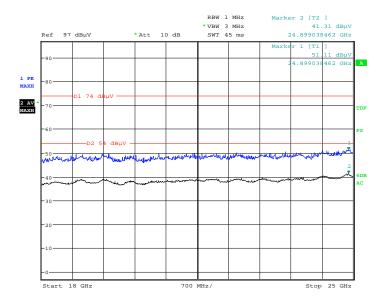
Horizontal Plot

Report No.: RSHA180815008-00C



Date: 16.SEP.2018 17:00:01

Vertical Plot



Date: 16.SEP.2018 17:20:18

FCC Part 15.247 Page 42 of 74

Fundamental Test & Restricted Bands Emissions Test:

(Pre-scan in the X,Y and Z axes of orientation, the worst case **X-axis of orientation** was recorded)

Report No.: RSHA180815008-00C

Note:

1. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB) Corrected Amplitude (dB μ V /m) = Corrected Factor (dB/m) + Reading (dB μ V) Margin (dB) = Limit (dB μ V/m) – Corrected Amplitude (dB μ V /m)

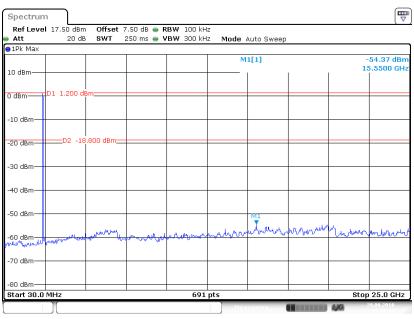
Engguenav	Corrected Amplitude		Rx Antenna		Turntable	Corrected	Limit	Mangin
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBµV/m)	Height (cm)	Polar (H/V)	Degree	Factor (dB/m)	(dBµV/m)	Margin (dB)
			Low Chan	nel: 2402M	Hz	_		
2402.000000	99.36		250.0	V	281.0	2.9	/	/
2402.000000		98.50	250.0	V	281.0	2.9	/	/
2402.000000	97.34		200.0	Н	226.0	2.9	/	/
2402.000000		96.48	200.0	Н	226.0	2.9	/	/
2390.000000	52.49		200.0	V	275.0	2.8	74.00	21.51
2390.000000		43.18	200.0	V	275.0	2.8	54.00	10.82
	Middle Channel: 2440MHz							
2440.000000	99.26		250.0	V	113.0	3.0	/	/
2440.000000		98.31	250.0	V	113.0	3.0	/	/
2440.000000	97.25		150.0	Н	210.0	3.0	/	/
2440.000000		96.15	150.0	Н	210.0	3.0	/	/
			High Char	nel: 2480M	Ήz	_		
2480.000000	97.83		200.0	V	1.0	3.0	/	/
2480.000000		96.91	200.0	V	1.0	3.0	/	/
2480.000000	95.82		200.0	Н	209.0	3.0	/	/
2480.000000		94.78	200.0	Н	209.0	3.0	/	/
2483.500000	52.21		200.0	V	177.0	3.0	74.00	21.79
2483.500000		44.28	200.0	V	177.0	3.0	54.00	9.72

FCC Part 15.247 Page 43 of 74

Conducted Spurious Emissions at Antenna Port

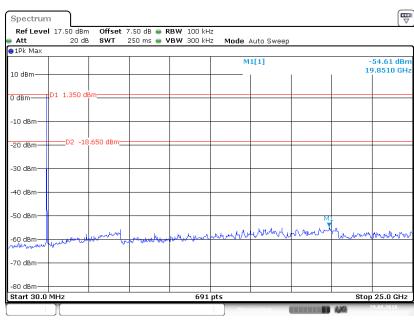
802.11b Mode Low Channel

Report No.: RSHA180815008-00C



Date: 29 AUG .2018 19:42:41

802.11b Mode Middle Channel

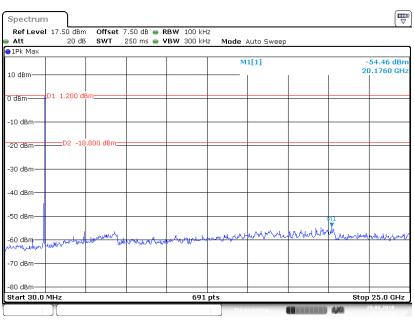


Date: 29 AUG 2018 19:44:27

FCC Part 15.247 Page 44 of 74

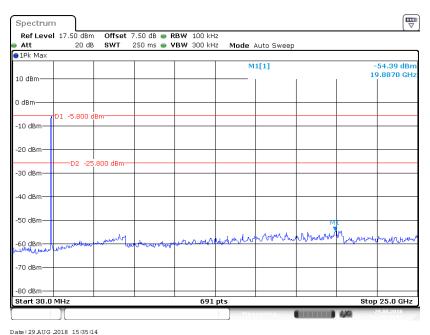
802.11b Mode High Channel

Report No.: RSHA180815008-00C



Date: 29 AUG 2018 19:54:20

802.11g Mode Low Channel

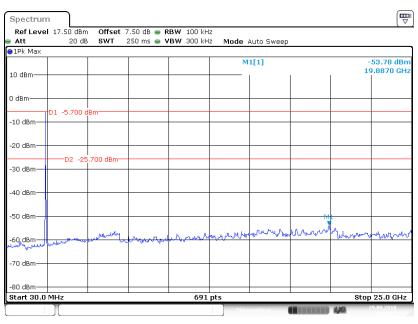


Date: 29 AUG 2018 15:35:14

FCC Part 15.247 Page 45 of 74

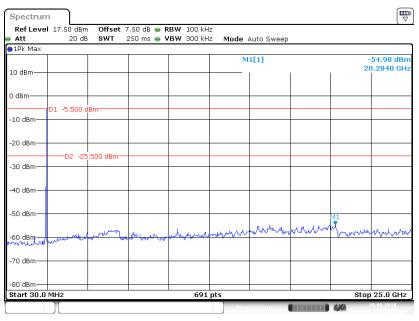
802.11g Mode Middle Channel

Report No.: RSHA180815008-00C



Date: 29 AUG 2018 15:50:32

802.11g Mode High Channel

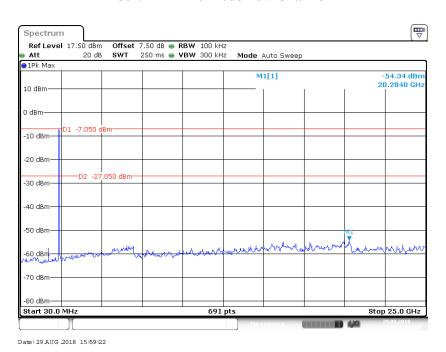


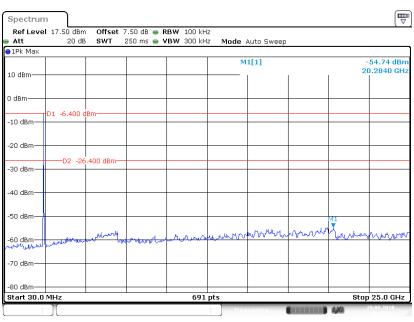
Date: 29 AUG 2018 15:41:29

FCC Part 15.247 Page 46 of 74

802.11n-HT20 Mode Low Channel

Report No.: RSHA180815008-00C





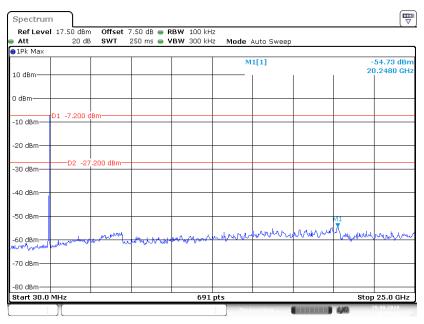
802.11n-HT20 Mode Middle Channel

Date: 29 AUG 2018 16:12:04

FCC Part 15.247 Page 47 of 74

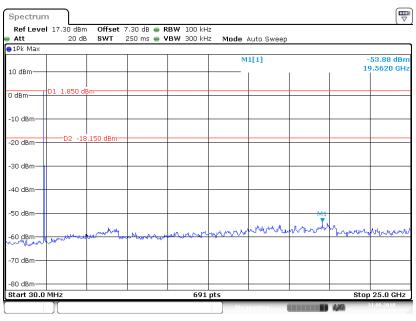
802.11n-HT20 Mode High Channel

Report No.: RSHA180815008-00C



Date: 29 AUG .2018 16:00:26

BLE Mode Low Channel

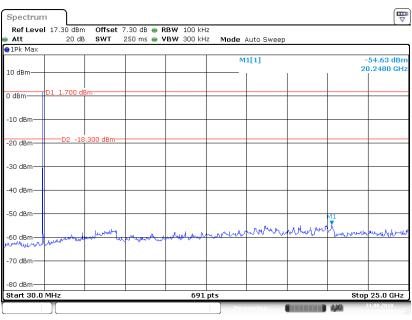


Date: 31 AUG 2018 14:38:59

FCC Part 15.247 Page 48 of 74

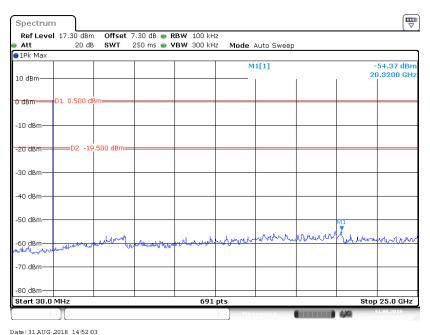
BLE Mode Middle Channel

Report No.: RSHA180815008-00C



Date: 31 AUG .2018 14:44:29

BLE Mode High Channel



Date: 31 AUG 2018 14:52:03

FCC Part 15.247 Page 49 of 74

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

Applicable Standard

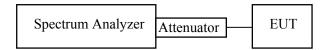
Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Report No.: RSHA180815008-00C

Test Procedure

According to ANSI C63.10-2013 sub-clause 11.8.1

- 1. Set RBW = 100 kHz.
- 2. Set the video bandwidth (VBW) \geq 3 * RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.



Test Data

Environmental Conditions

Temperature:	24.1-24.2 ℃
Relative Humidity:	50-51 %
ATM Pressure:	101.2-101.3 kPa

The testing was performed by Max Min on 2018-08-29 & 2018-08-31.

EUT operation mode: Transmitting

Test Result: Pass

FCC Part 15.247 Page 50 of 74

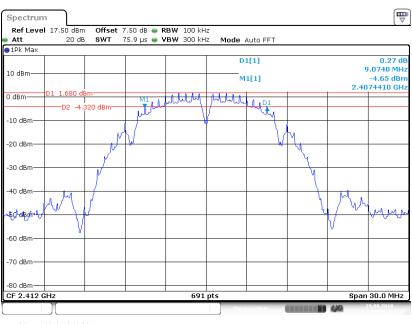
Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (MHz)				
	802.11	b Mode					
Low	2412	9.074	≥ 0.5				
Middle	2437	9.074	≥ 0.5				
High	2462	9.074	≥ 0.5				
	802.11g Mode						
Low	2412	16.324	≥ 0.5				
Middle	2437	16.324	≥ 0.5				
High	2462	16.324	≥ 0.5				
	802.11n-I	HT20 Mode					
Low	2412	17.540	≥ 0.5				
Middle	2437	17.540	≥ 0.5				
High	2462	17.540	≥ 0.5				
	BLE	Mode					
Low	2402	0.734	≥ 0.5				
Middle	2440	0.734	≥ 0.5				
High	2480	0.734	≥ 0.5				

Report No.: RSHA180815008-00C

FCC Part 15.247 Page 51 of 74

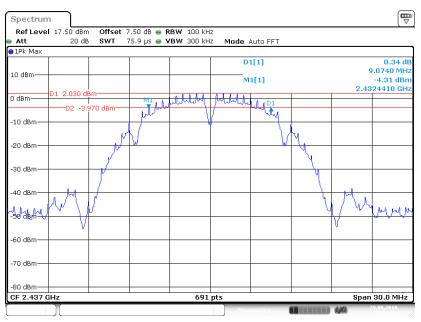
802.11b Mode Low Channel

Report No.: RSHA180815008-00C



Date: 29 AUG .2018 19:39:36

802.11b Mode Middle Channel

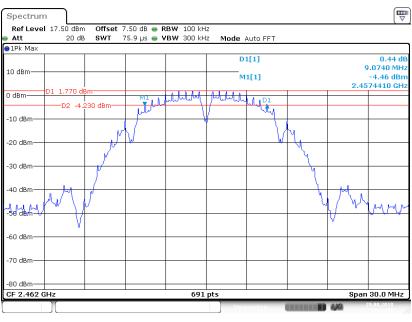


Date: 29 AUG 2018 19:46:45

FCC Part 15.247 Page 52 of 74

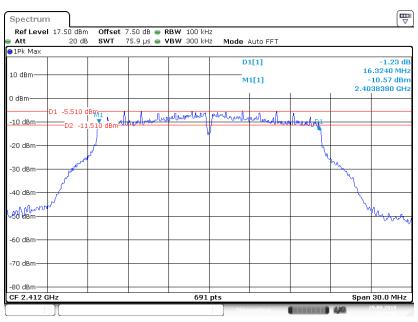
802.11b Mode High Channel

Report No.: RSHA180815008-00C



Date: 29 AUG .2018 19:52:00

802.11g Mode Low Channel

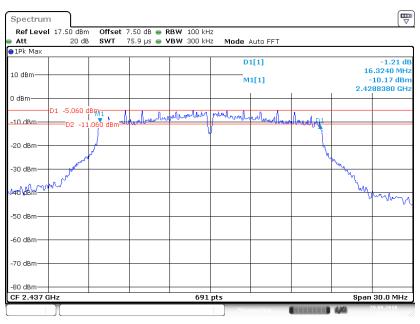


Date: 29 AUG 2018 15:29:41

FCC Part 15.247 Page 53 of 74

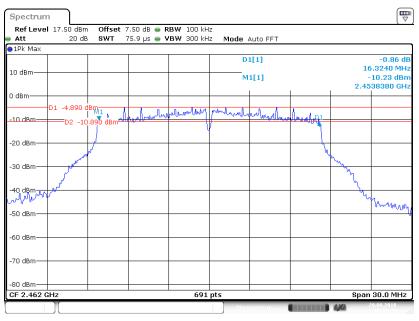
802.11g Mode Middle Channel

Report No.: RSHA180815008-00C



Date: 29 AUG 2018 15:46:30

802.11g Mode High Channel

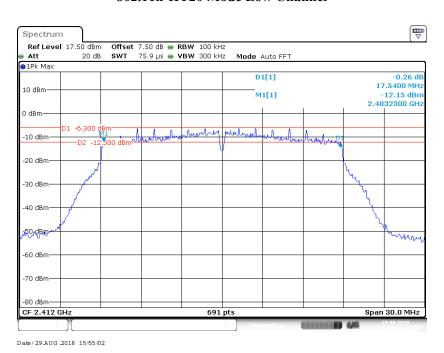


Date: 29 AUG 2018 15:39:29

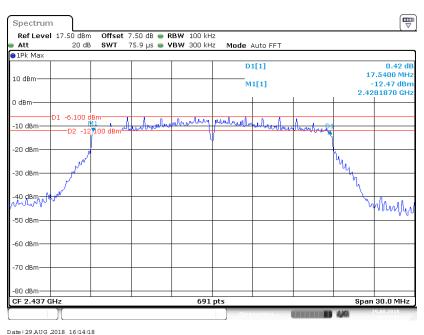
FCC Part 15.247 Page 54 of 74

802.11n-HT20 Mode Low Channel

Report No.: RSHA180815008-00C



802.11n-HT20 Mode Middle Channel

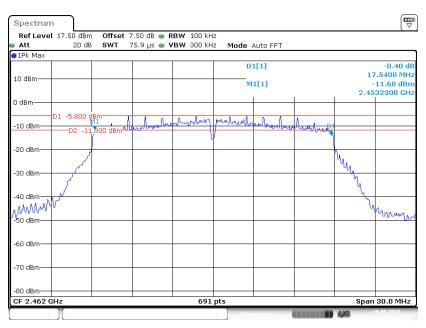


Date: 29 AUG 2018 16:14:18

FCC Part 15.247 Page 55 of 74

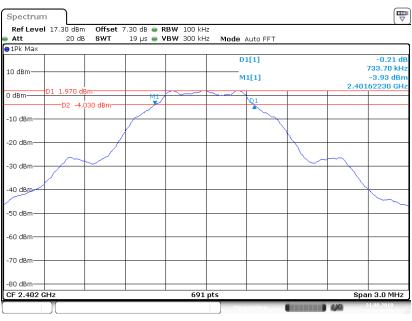
802.11n-HT20 Mode High Channel

Report No.: RSHA180815008-00C



Date: 29 AUG 2018 16:05:20

BLE Mode Low Channel

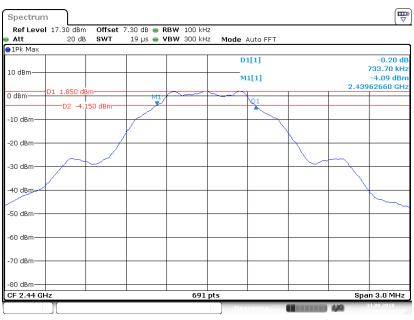


Date: 31 AUG .2018 14:33:56

FCC Part 15.247 Page 56 of 74

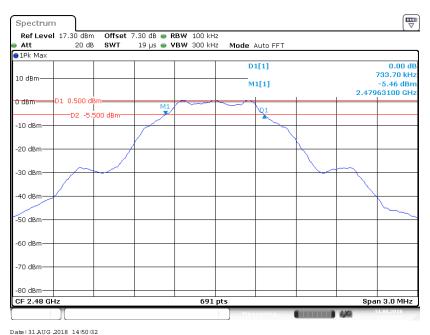
BLE Mode Middle Channel

Report No.: RSHA180815008-00C



Date: 31 AUG .2018 14:43:26

BLE Mode High Channel



Date: 31 AUG 2018 14:50:32

FCC Part 15.247 Page 57 of 74

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.: RSHA180815008-00C

Test Procedure

According to ANSI C63.10-2013 sub-clause 11.9.1.1 & 11.9.1.3

For Wi-Fi:

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

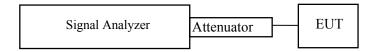
- 1. Place the EUT on a bench and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
- 3. Add a correction factor to the display.



For BLE:

The following procedure can be used when the maximum available RBW of the instrument is less than the DTS bandwidth:

- 1. Set the RBW \geq DTS bandwidth.
- 2. Set $VBW \ge 3 \times RBW$.
- 3. Set span \geq 3 x RBW
- 4. Sweep time = auto couple.
- 5. Detector = peak.
- 6. Trace mode = max hold.
- 7. Allow trace to fully stabilize.
- 8. Use peak marker function to determine the peak amplitude level.



FCC Part 15.247 Page 58 of 74

Test Data

Environmental Conditions

Temperature:	23.8℃
Relative Humidity:	54 %
ATM Pressure:	101.2 kPa

The testing was performed by Max Min on 2018-08-31.

EUT operation mode: Transmitting

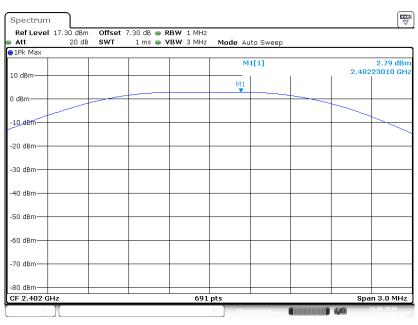
Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Average Conducted Output Power (dBm)	Limit (dBm)	Result				
	802.11b Mode								
Low	2412	13.36	9.58	≤ 30	Pass				
Middle	2437	13.46	9.69	≤ 30	Pass				
High	2462	13.31	9.51	≤ 30	Pass				
	802.11g Mode								
Low	2412	14.55	5.54	≤ 30	Pass				
Middle	2437	14.90	5.86	≤ 30	Pass				
High	2462	15.10	5.95	≤ 30	Pass				
		802.11n-H	Γ20 Mode						
Low	2412	13.61	4.25	≤ 30	Pass				
Middle	2437	13.77	4.33	≤ 30	Pass				
High	2462	13.97	4.59	≤ 30	Pass				
		BLE N	Mode						
Low	2402	2.79	/	≤ 30	Pass				
Middle	2440	2.44	/	≤ 30	Pass				
High	2480	1.20	/	≤ 30	Pass				

Report No.: RSHA180815008-00C

FCC Part 15.247 Page 59 of 74

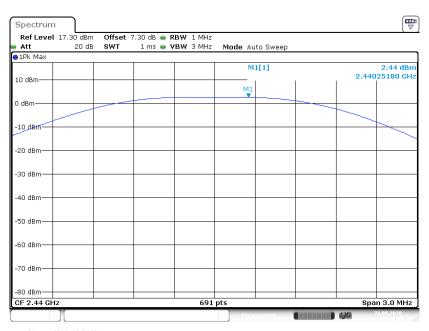
BLE Mode Low Channel

Report No.: RSHA180815008-00C



Date: 31 AUG .2018 14:32:20

BLE Mode Middle Channel

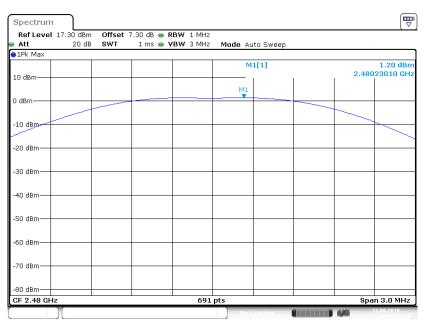


Date: 31 AUG .2018 14:41:02

FCC Part 15.247 Page 60 of 74

BLE Mode High Channel

Report No.: RSHA180815008-00C



Date: 31 AUG .2018 14:48:27

FCC Part 15.247 Page 61 of 74

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

Report No.: RSHA180815008-00C

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

According to ANSI C63.10-2013 clause 6.10

- 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:	24.1-24.2 ℃
Relative Humidity:	50-51 %
ATM Pressure:	101.2-101.3 kPa

The testing was performed by Max Min on 2018-08-29 & 2018-08-31.

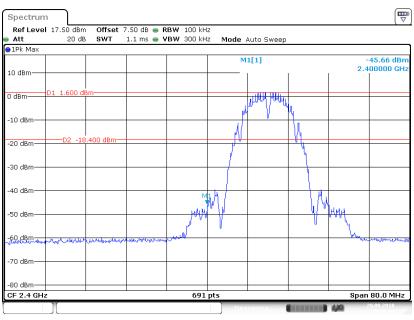
EUT operation mode: Transmitting

Test Result: Compliance

FCC Part 15.247 Page 62 of 74

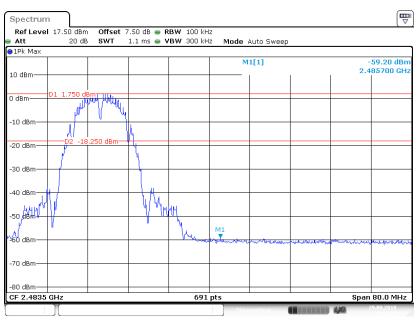
802.11b Mode Left Side

Report No.: RSHA180815008-00C



Date: 29 AUG .2018 19:41:41

802.11b Mode Right Side

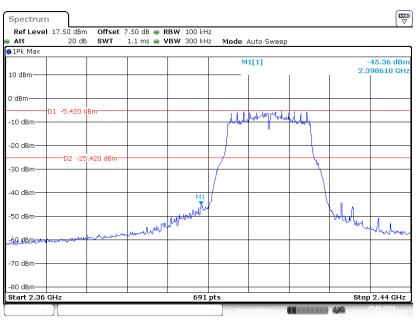


Date: 29 AUG 2018 19:53:29

FCC Part 15.247 Page 63 of 74

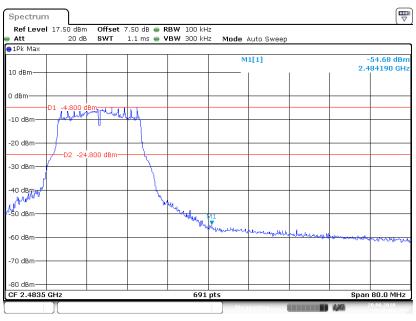
802.11g Mode Left Side

Report No.: RSHA180815008-00C



Date: 29 AUG 2018 15:34:15

802.11g Mode Right Side

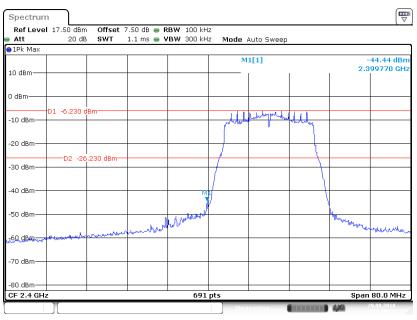


Date: 29 AUG 2018 15:43:08

FCC Part 15.247 Page 64 of 74

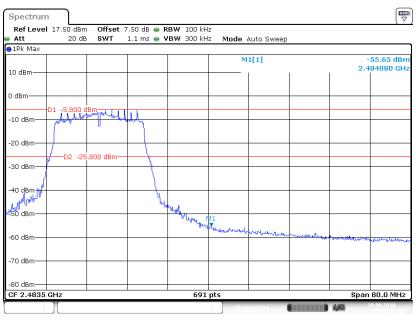
802.11n-HT20 Mode Left Side

Report No.: RSHA180815008-00C



Date: 29 AUG .2018 15:58:21

802.11n-HT20 Mode Right Side

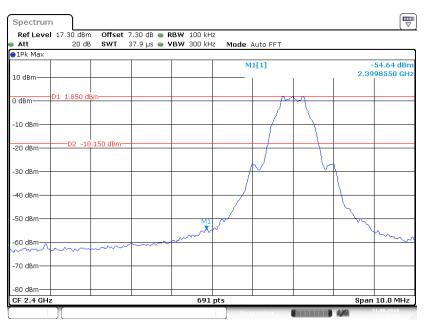


Date: 29 AUG 2018 16:01:20

FCC Part 15.247 Page 65 of 74

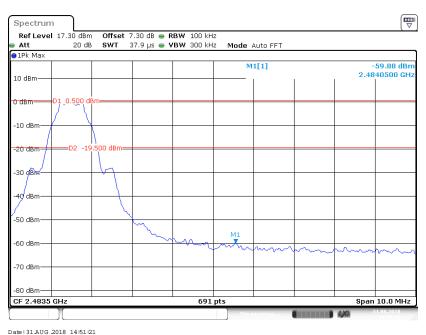
BLE Mode Left Side

Report No.: RSHA180815008-00C



Date: 31 AUG .2018 14:36:35

BLE Mode Right Side



Date: 31 AUG 2018 14:51:21

FCC Part 15.247 Page 66 of 74

FCC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

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

Report No.: RSHA180815008-00C

Test Procedure

According to ANSI C63.10-2013 sub-clause 11.10.2

The following procedure shall be used if maximum peak conducted output power was used to determine compliance, and it is optional if the maximum conducted (average) output power was used to determine compliance:

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

Test Data

Environmental Conditions

Temperature:	24.1-24.2 ℃
Relative Humidity:	50-51 %
ATM Pressure:	101.2-101.3 kPa

The testing was performed by Max Min on 2018-08-29 & 2018-08-31.

EUT operation mode: Transmitting

Test Result: Pass

FCC Part 15.247 Page 67 of 74

High

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)
802.11b Mode			
Low	2412	-10.70	≤ 8
Middle	2437	-10.22	≤ 8
High	2462	-10.55	≤ 8
802.11g Mode			
Low	2412	-16.81	≤ 8
Middle	2437	-16.53	≤ 8
High	2462	-16.39	≤ 8
802.11n-HT20 mode			
Low	2412	-17.63	≤ 8
Middle	2437	-17.40	≤ 8
High	2462	-17.25	≤ 8
BLE Mode			
Low	2402	-11.52	≤ 8
Middle	2440	-11.67	≤ 8

-12.88

2480

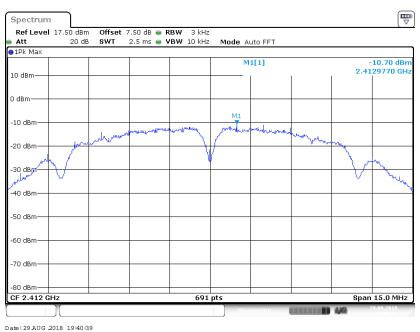
Report No.: RSHA180815008-00C

≤ 8

FCC Part 15.247 Page 68 of 74

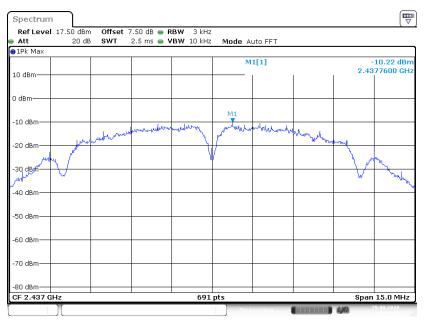
802.11b Mode Low Channel

Report No.: RSHA180815008-00C



Date: 29 AUG 2016 19:40:39

802.11b Mode Middle Channel

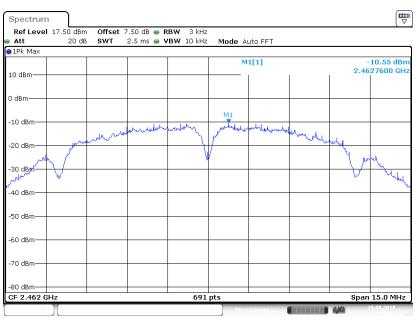


Date: 29 AUG 2018 19:47:36

FCC Part 15.247 Page 69 of 74

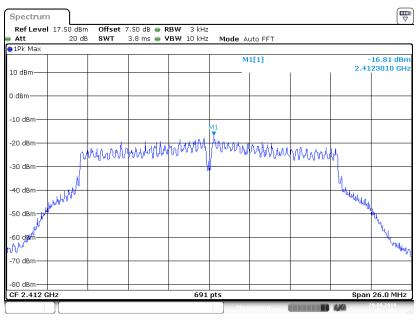
802.11b Mode High Channel

Report No.: RSHA180815008-00C



Date: 29 AUG 2018 19:52:43

802.11g Mode Low Channel

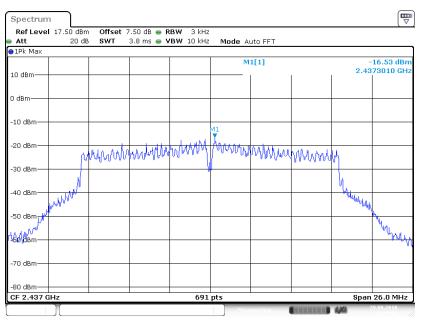


Date: 29 AUG 2018 15:31:53

FCC Part 15.247 Page 70 of 74

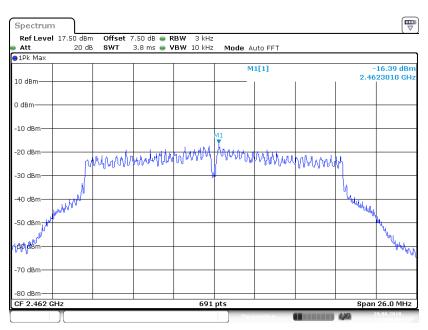
802.11g Mode Middle Channel

Report No.: RSHA180815008-00C



Date: 29 AUG 2018 15:49:05

802.11g Mode High Channel

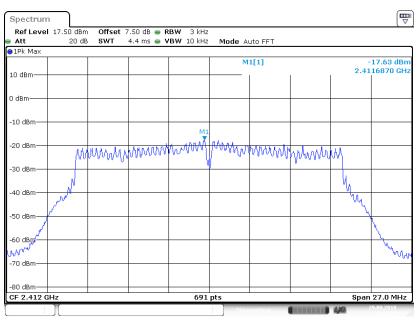


Date: 29 AUG 2018 15:40:06

FCC Part 15.247 Page 71 of 74

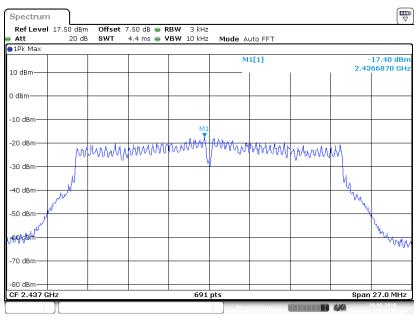
802.11n-HT20 Mode Low Channel

Report No.: RSHA180815008-00C



Date: 29 AUG 2018 15:57:30

802.11n-HT20 Mode Middle Channel

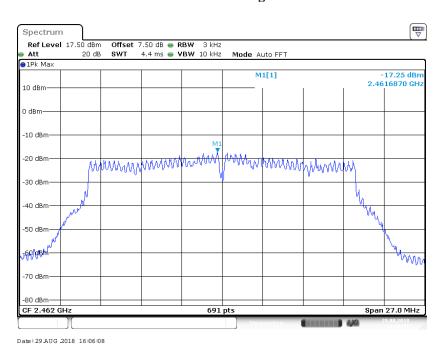


Date: 29 AUG 2018 16:07:05

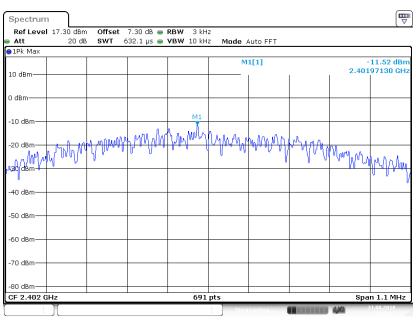
FCC Part 15.247 Page 72 of 74

802.11n-HT20 Mode High Channel

Report No.: RSHA180815008-00C



BLE Mode Low Channel

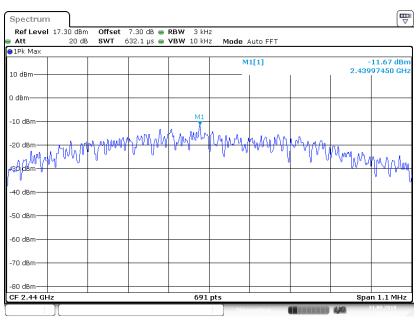


Date: 31 AUG 2018 14:35:44

FCC Part 15.247 Page 73 of 74

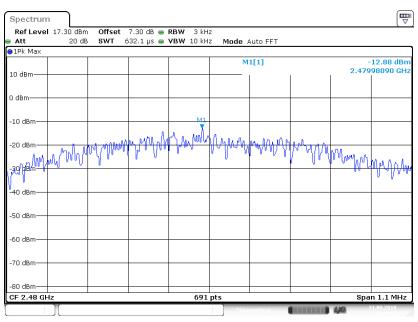
BLE Mode Middle Channel

Report No.: RSHA180815008-00C



Date: 31 AUG 2018 14:41:27

BLE Mode High Channel



Date: 31 AUG 2018 14:49:12

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

FCC Part 15.247 Page 74 of 74