

Shenzhen Toby Technology Co., Ltd.

Report No.: TB-FCC171200

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FCC Radio Test Report FCC ID: 2AKUR-E-D

Original Grant

Report No. TB-FCC171200

Hangzhou Jufeng Technology Co., Ltd. **Applicant**

Equipment Under Test (EUT)

EUT Name BULLET CAMERA

Model No. E-D

EL-2D, EL-3D, EL-5D, EG-2D, EG-3D, EG-5D, EH-2D, EH-3D, Series Model No.

EH-5D

Brand Name

TBBJ-20191211-05-1#& TBBJ-20191211-05-2# Sample ID

Receipt Date 2019-12-23

2019-12-24 to 2020-08-05 **Test Date**

Issue Date 2020-08-06

Standards FCC Part 15, Subpart C 15.247

ANSI C63.10: 2013 **Test Method**

Conclusions PASS

In the configuration tested, the EUT complied with the standards specified above,

The EUT technically complies with the FCC and IC requirements

Test/Witness Engineer

Engineer Supervisor

Engineer Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should

TB-RF-074-1.0



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ensure that all products in series production are in conformity with the product sample detailed in the report.

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Revision History

Report No.	Version	Description	Issued Date
TB-FCC171200	Rev.01	Initial issue of report	2020-08-06
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1. General Information about EUT

1.1 Client Information

Applicant		Hangzhou Jufeng Technology Co., Ltd.		
Address : Building 9, Yinhu Innovation Center, No.9 FuXian Road, Yinh Hangzhou China		Building 9, Yinhu Innovation Center, No.9 FuXian Road, YinHu Street, Hangzhou China		
Manufacturer		Hangzhou Jufeng Technology Co., Ltd.		
Address		Building 9, Yinhu Innovation Center, No.9 FuXian Road, YinHu Street, Hangzhou China		

1.2 General Description of EUT (Equipment Under Test)

EUT Name		BULLET CAMER	A		
Models No.	· \	: E-D, EL-3D, EL-5D, EG-2D, EG-3D, EG-5D, EH-2D, EH-3 EH-5D			
Model Difference		All these models are in the same PCB, layout and electric circuit, the only difference is Appearance and resolution ra			
Product Description	Operation 802.11b/g/n(HT20): 2412MHz~2462M Frequency: 802.11n(HT40): 2422MHz~2452MHz Number of 802.11b/g/n(HT20):11 channels see n Channel: 802.11n(HT40):7 channels see note(3 802.11b: 16.43 dBm RF Output 802.11g: 16.45 dBm				
Power Supply	100	Antenna Gain: 3dBi External Antenna Adapter(CS-1201000) Input: AC 100-240V, 50/60Hz, 0.5A Output: DC 12V, 1000mAh			
Software Version	6	V1.0			
Hardware Version	: V1.0				
Connecting I/O Port(S)		Please refer to the User's Manual			
Remark	1	The antenna gain and adapter provided by the applicant, the verified for the RF conduction test and adapter provided by TOBY test lab.			

Note:

(1) This Test Report is FCC Part 15.247 for 802.11b/g/n, the test procedure follows the FCC KDB 558074 D01 DTS Meas Guidance v05.



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(2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



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(3) Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	05	2432	09	2452
02	2417	06	2437	10	2457
03	2422	07	2442	11	2462
04	2427	80	2447		

Note: CH 01~CH 11 for 802.11b/g/n(HT20) CH 03~CH 9 for 802.11n(HT40)

- (4) The Antenna information about the equipment is provided by the applicant.
- 1.3 Block Diagram Showing the Configuration of System Tested

Charging	Mode
----------	------

	Adapter		EUT		
'		Cable 1		•	

TX Mode





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1.4 Description of Support Units

Equipment Information								
Name	Model	FCC ID/VOC Manufacture		Used "√"				
ADAPTER	CS-1201000	The same of the sa	1	V				

1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

For Conducted Test					
Final Test Mode Description					
Mode 1 Charging+ TX B Mode					

For Radiated Test				
Final Test Mode Description				
Mode 2 TX Mode B Mode Channel 01/06/11				
Mode 3	TX Mode G Mode Channel 01/06/11			
Mode 4 TX Mode N(HT20) Mode Channel 01/06/11				
Mode 5 TX Mode N(HT40) Mode Channel 03/06/09				

Note:

(1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate.

According to ANSI C63.10 standards, the measurements are performed at the highest, Middle, lowest available channels, and the worst case data rate as follows:

802.11b Mode: CCK (1 Mbps) 802.11g Mode: OFDM (6 Mbps)

802.11n (HT20) Mode: MCS 0 (6.5 Mbps) 802.11n (HT40) Mode: MCS 0 (13 Mbps)

- (2) During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.
- (3) The EUT is fixed unit; in normal use it was positioned on X-plane. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.



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1.6 Description of Test Software Setting

During testing channel&Power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN.

Test Software Version	670	xshell	
Channel	CH 01	CH 06	CH 11
IEEE 802.11b DSSS	DEF	DEF	DEF
IEEE 802.11g OFDM	DEF	DEF	DEF
IEEE 802.11n (HT20)	DEF	DEF	DEF
Test Software Version	THE PARTY OF THE P	xshell	an an
Channel	CH 03	CH 06	CH 09
IEEE 802.11n (HT40)	DEF	DEF	DEF

1.7 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

Test Item	Parameters	Expanded Uncertainty (U _{Lab})
	Level Accuracy:	
Conducted Emission	9kHz~150kHz	±3.42 dB
	150kHz to 30MHz	±3.42 dB
Radiated Emission	Level Accuracy:	±4.60 dB
	9kHz to 30 MHz	±4.00 db
Radiated Emission	Level Accuracy:	±4.40 dB
	30MHz to 1000 MHz	±4.40 db
Radiated Emission	Level Accuracy:	±4.20 dB
	Above 1000MHz	±4.20 UD



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1.8 Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

A2LA Certificate No.: 4750.01

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01. FCC Accredited Test Site Number: 854351.

IC Registration No.: (11950A)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A.



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2. Test Summary

FCC Part 15 Subpart C(15.247)/RSS 247 Issue 2					
Standard Section		les al arma a má			
FCC	IC	Test Item	Test Sample(s)	Judgment	Remark
15.203		Antenna Requirement	TBBJ-20191211-05-2#	PASS	N/A
15.207(a)	RSS-GEN 7.2.4	Conducted Emission	TBBJ-20191211-05-1#	PASS	N/A
15.205&15.247(d)	RSS-GEN 7.2.2	Band-Edge & Unwanted Emissions into Restricted Frequency	TBBJ-20191211-05-2#	PASS	N/A
15.247(a)(2)	RSS 247 5.2 (1)	6dB Bandwidth	TBBJ-20191211-05-2#	PASS	N/A
15.247(b)(3)	RSS 247 5.4 (4)	Conducted Max Output Power	TBBJ-20191211-05-2#	PASS	N/A
15.247(e)	RSS 247 5.2 (2)	Power Spectral Density	TBBJ-20191211-05-2#	PASS	N/A
15.205, 15.209&15.247(d)	RSS 247 5.5	Transmitter Radiated Spurious &Unwanted Emissions into Restricted Frequency	TBBJ-20191211-05-1# TBBJ-20191211-05-2#	PASS	N/A

Note: N/A is an abbreviation for Not Applicable.

3. Test Software

Test Item	Test Software	Manufacturer	Version No.
Conducted Emission	EZ-EMC	EZ	CDI-03A2
Radiation Emission	EZ-EMC	EZ	FA-03A2RE



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4. Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jul. 06, 2020	Jul. 05, 2021
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jul. 06, 2020	Jul. 05, 2021
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul. 06, 2020	Jul. 05, 2021
LISN	Rohde & Schwarz	ENV216	101131	Jul. 06, 2020	Jul. 05, 2021
Radiation Emission	n Test			<u>-</u>	-
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 06, 2020	Jul. 05, 2021
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jul. 06, 2020	Jul. 05, 2021
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102197	Jul. 06, 2020	Jul. 05, 2021
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar.01, 2020	Feb. 28, 2021
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar.01, 2020	Feb. 28, 2022
Horn Antenna	ETS-LINDGREN	BBHA 9170	BBHA9170582	Mar.01, 2020	Feb. 28, 2022
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Jul. 06, 2020	Jul. 05, 2021
Pre-amplifier	Sonoma	310N	185903	Mar.01, 2020	Feb. 28, 2021
Pre-amplifier	HP	8449B	3008A00849	Mar.01, 2020	Feb. 28, 2021
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar.01, 2020	Feb. 28, 2021
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A
Antenna Conducte	ed Emission				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 06, 2020	Jul. 05, 2021
Spectrum Analyzer	Rohde & Schwarz	ESCI	100010/007	Jul. 06, 2020	Jul. 05, 2021
MXA Signal Analyzer	Agilent	N9020A	MY49100060	Sep. 16, 2019	Sep. 15, 2020
Vector Signal Generator	Agilent	N5182A	MY50141294	Sep. 16, 2019	Sep. 15, 2020
Analog Signal Generator	Agilent	N5181A	MY50141953	Sep. 16, 2019	Sep. 15, 2020
3 130	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO26	Sep. 16, 2019	Sep. 15, 2020
DE Dawer Course	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO29	Sep. 16, 2019	Sep. 15, 2020
RF Power Sensor	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO31	Sep. 16, 2019	Sep. 15, 2020
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO33	Sep. 16, 2019	Sep. 15, 2020



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5. Conducted Emission Test

4.1 Test Standard and Limit

4.1.1Test Standard FCC Part 15.207

4.1.2 Test Limit

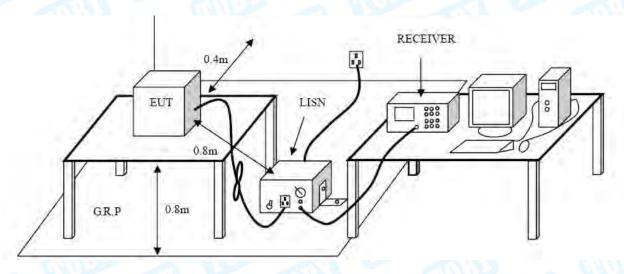
Conducted Emission Test Limit

The second secon	Maximum RF Line Voltage (dBμV)	
Frequency	Quasi-peak Level	Average Level
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Notes:

- (1) *Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.2 Test Setup



4.3 Test Procedure

The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/50uH of coupling impedance for the measuring instrument.

Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.



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I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN at least 80 cm from nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

4.4 EUT Operating Mode

Please refer to the description of test mode.

4.5 Test Data

Please refer to the Attachment A.



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6. Radiated Emission Test

5.1 Test Standard and Limit

5.1.1 Test Standard FCC Part 15.209

5.1.2 Test Limit

Radiated Emission Limits (9 kHz~1000 MHz)

Frequency (MHz	Field Strength (microvolt/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Radiated Emission Limit (Above 1000MHz)

Frequency	Distance of 3m (dBuV/m)	
(MHz)	Peak	Average
Above 1000	74	54

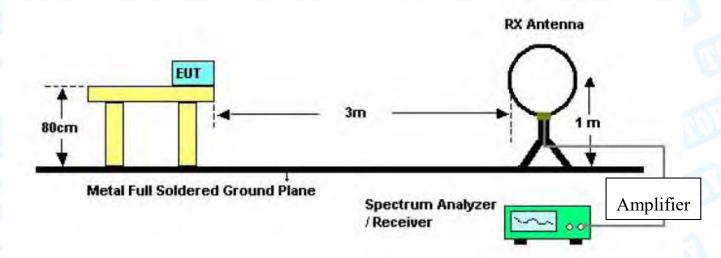
Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level(dBuV/m)=20log Emission Level(uV/m)

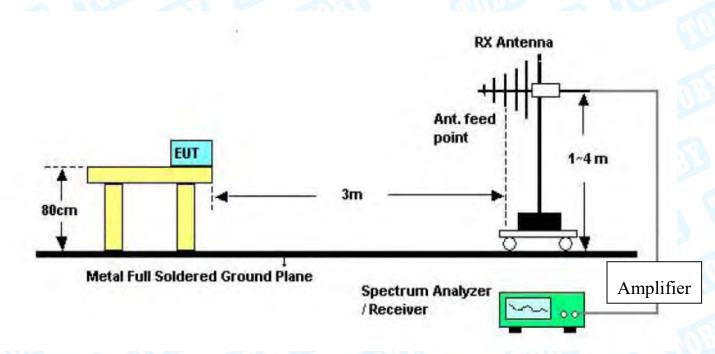


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5.2 Test Setup



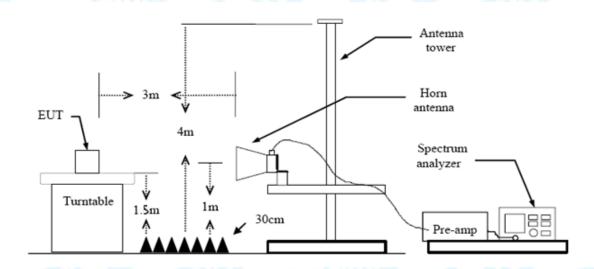
Below 30MHz Test Setup



Below 1000MHz Test Setup



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Above 1GHz Test Setup

5.3 Test Procedure

- (1) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency Below 1GHz. The EUT was placed on a rotating 0.8m high above the ground. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

5.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.



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5.5 Test Data

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

Please refer to the Attachment B.



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7. Restricted Bands Requirement

6.1 Test Standard and Limit

6.1.1 Test Standard

FCC Part 15.247(d)

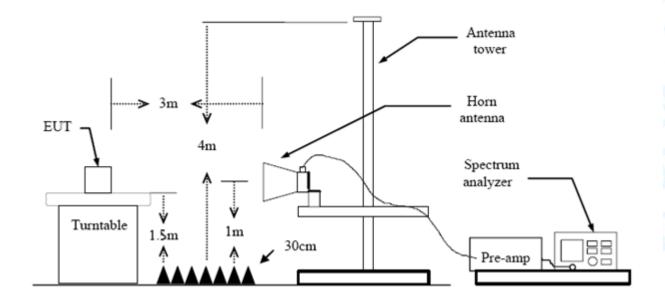
FCC Part 15.209

FCC Part 15.205

6.1.2 Test Limit

Restricted Frequency	Distance of 3m (dBuV/m)	
Band (MHz)	Peak	Average
2310 ~2390	74	54
2483.5 ~2500	74	54

6.2 Test Setup



6.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency below 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.



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(3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.

- (4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

6.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

6.5 Test Data

Please refer to the Attachment C.



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8. Bandwidth Test

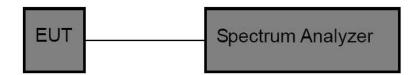
7.1 Test Standard and Limit

7.1.1 Test Standard FCC Part 15.247 (a)(2)

7.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS-210		
Test Item	Limit	Frequency Range(MHz)
Bandwidth	>=500 KHz (6dB bandwidth)	2400~2483.5

7.2 Test Setup



7.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) The bandwidth is measured at an amplitude level reduced 6dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst –case (i.e the widest) bandwidth.
- (3)Measure the channel separation the spectrum analyzer was set to Resolution Bandwidth:100 kHz, and Video Bandwidth:300 kHz, Detector: Peak, Sweep Time set auto.

7.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, Digital photo framesdle and high channel for the test.

7.5 Test Data

Please refer to the Attachment D.



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9. Peak Output Power Test

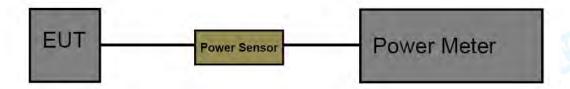
8.1 Test Standard and Limit

8.1.1 Test Standard FCC Part 15.247 (b)

8.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS-210			
Test Item	Limit	Frequency Range(MHz)	
Peak Output Power	1 Watt or 30 dBm	2400~2483.5	

8.2 Test Setup



8.3 Test Procedure

The measurement is according to section 9.1.2 of KDB 558074 D01 DTS Meas Guidance v05. The EUT was connected to RF power meter via a broadband power sensor as show the block above. The power sensor video bandwidth is greater than or equal to the DTS bandwidth of the equipment.

8.4 EUT Operating Condition

The EUT was set to continuously transmitting in the max power during the test.

8.5 Test Data

Please refer to the Attachment E.



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10. Power Spectral Density Test

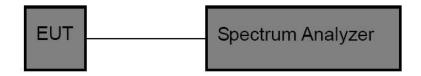
9.1 Test Standard and Limit

9.1.1 Test Standard FCC Part 15.247 (e)

9.1.2 Test Limit

FCC Part 15 Subpart C(15.247)			
Test Item	Limit	Frequency Range(MHz)	
Power Spectral Density	8dBm(in any 3 kHz)	2400~2483.5	

9.2 Test Setup



9.3 Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyser center frequency to DTS channel center frequency.
- (3) Set the span to 1.5 times the DTS bandwidth.
- (4) Set the RBW to: 3 kHz(5) Set the VBW to: 10 kHz
- (6) Detector: peak(7) Sweep time: auto
- (8) Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

9.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, Digital photo framesdle and high channel for the test.

9.5 Test Data

Please refer to the Attachment F.



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11. Antenna Requirement

10.1 Standard Requirement

10.1.1 Standard FCC Part 15.203

10.1.2 Requirement

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 use of a standard antenna jack or electrical connector is prohibited.

10.2 Antenna Connected Construction

The gains of the antenna used for transmitting is 3dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

Result

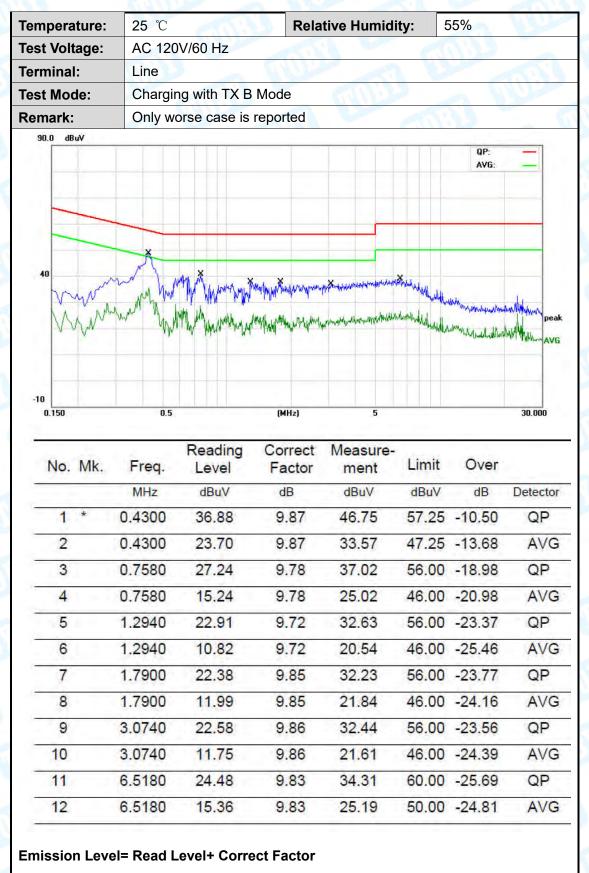
The EUT antenna is a External Antenna. It complies with the standard requirement.

Antenna Type	
Permanent attached antenna	V
⊠Unique connector antenna	3
☐Professional installation antenna	





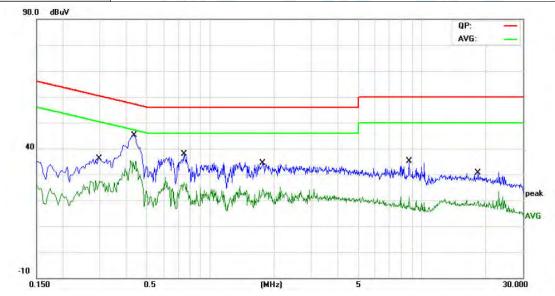
Attachment A-- Conducted Emission Test Data





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ĺ	Temperature:	25 ℃	Relative Humidity:	55%	
	Test Voltage:	AC 120V/60 Hz			
	Terminal:	Neutral			
Test Mode: Charging with TX B Mode					
	Remark:				



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.2980	23.53	9.70	33.23	60.30	-27.07	QP
2		0.2980	16.04	9.70	25.74	50.30	-24.56	AVG
3		0.4340	33.73	9.77	43.50	57.18	-13.68	QP
4	*	0.4340	24.27	9.77	34.04	47.18	-13.14	AVG
5		0.7500	24.72	9.75	34.47	56.00	-21.53	QP
6		0.7500	16.50	9.75	26.25	46.00	-19.75	AVG
7		1.7700	20.12	9.84	29.96	56.00	-26.04	QP
8		1.7700	12.39	9.84	22.23	46.00	-23.77	AVG
9		8.7180	20.03	9.86	29.89	60.00	-30.11	QP
10		8.7180	10.22	9.86	20.08	50.00	-29.92	AVG
11	7 7	18.3660	14.63	9.70	24.33	60.00	-35.67	QP
12		18.3660	9.20	9.70	18.90	50.00	-31.10	AVG



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Attachment B-- Radiated Emission Test Data

9KHz~30MHz

From 9KHz to 30MHz: Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB

below the permissible value has no need to be reported.

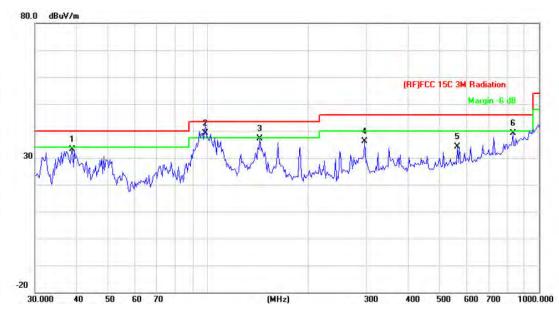
30MHz~1GHz

empera	ture:	25 ℃			Relative Hu	umidity:	55%	11
est Volt	age:	AC 120V	//60 Hz		MALL		187	
Ant. Pol.		Horizont	al	6.00		TELLE	3	2 8
Test Mod	de:	TX B Mo	de 2412MH	Hz				
Remark:		Only wor	rse case is	reported	11000		FRIT	
80.0 dBu	V/m					1		
						(BEIECC :	15C 3M Radiatio	00
						(in)rec	Maigin	
			2 3 5 V	4			6	7
			- Marin	Ž (The land A	Luis	" NATURE	mun
30			1 1	Allah	May my	MAN TA	Mw/r	
X	A.L		Na A	M MANAM	ywi v			
0.00	7/1		W .					
1000 Mar	MAN	Mary Mary	V					
o Aller	"MM	my want many	V .					
o Aliv	"MM	Sugar sound from	V.					
w.VIII	MM	hay would now y	y"					
o Alex	MM	May would part						
		Mary Mary Mary	V.					
-20 30.000	40	50 60 70	y ·	(MHz)	300	400 5	500 600 700	1000.00
-20			Reading			400 5	500 600 700	1000.00
-20 30.000		50 60 70	Reading Level	(MHz) Correct Factor	300 Measure- ment	400 s	000 600 700 Over	0 1000.00
-20 30.000	40	50 60 70		Correct	Measure-			Detector
-20 30.000	40	50 60 70 . Freq.	Level	Correct Factor	Measure- ment	Limit	Over	
-20 30.000 	40	50 60 70 . Freq.	Level dBuV	Correct Factor	Measure- ment dBuV/m	Limit dBuV/m	Over	Detector
-20 30.000 N	40 o. Mk	50 60 70 Freq. MHz 36.0007	dBuV 40,80	Correct Factor dB/m -17.26	Measure- ment dBuV/m 23.54	Limit dBuV/m 40.00	Over dB -16.46	Detector QP
-20 30.000 No.000 1 2	40 o. Mk	. Freq. MHz 36.0007 98.1419	dBuV 40,80 61.75	Correct Factor dB/m -17.26 -22.11	Measure- ment dBuV/m 23.54 39.64	Limit dBuV/m 40.00 43.50	Over dB -16.46 -3.86	Detector QP QP
-20 30.000 No.000 1 2 3	40 o. Mk	Freq. MHz 36.0007 98.1419 109.0286	dBuV 40.80 61.75 62.57	Correct Factor dB/m -17.26 -22.11 -22.45	Measure- ment dBuV/m 23.54 39.64 40.12	Limit dBuV/m 40.00 43.50 43.50	Over dB -16.46 -3.86 -3.38	Detector QP QP QP
-20 30.000 No.000 1 2 3 4	40 o. Mk	Freq. MHz 36.0007 98.1419 109.0286 143.3261	dBuV 40.80 61.75 62.57 59.12	Correct Factor dB/m -17.26 -22.11 -22.45 -22.14	Measure- ment dBuV/m 23.54 39.64 40.12 36.98	Limit dBuV/m 40.00 43.50 43.50 43.50	Over dB -16.46 -3.86 -3.38 -6.52	Detector QP QP QP QP
-20 30.000 No.000 1 2 3 4 5	40 o. Mk	50 60 70 Freq. MHz 36.0007 98.1419 109.0286 143.3261 297.2241	dBuV 40.80 61.75 62.57 59.12 57.11	Correct Factor dB/m -17.26 -22.11 -22.45 -22.14 -16.04	Measure- ment dBuV/m 23.54 39.64 40.12 36.98 41.07	Limit dBuV/m 40.00 43.50 43.50 43.50 46.00	Over dB -16.46 -3.86 -3.38 -6.52 -4.93	Detector QP QP QP QP QP



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	Temperature:	25 ℃	Relative Humidity:	55%
	Test Voltage:	AC 120V/60 Hz	CHILD TO	
	Ant. Pol.	Vertical		1000
N	Test Mode:	TX B Mode 2412MHz		
-	Remark:	Only worse case is repor	ted	



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		38.8878	51.81	-18.64	33.17	40.00	-6.83	QP
2	*	98.1419	61.31	-22.11	39.20	43.50	-4.30	QP
3		143.3261	59.16	-22.14	37.02	43.50	-6.48	QP
4		297.2241	52.19	-16.04	36.15	46.00	-9.85	QP
5		566.6223	42.70	-8.60	34.10	46.00	-11.90	QP
6		833.3171	44.48	-5.45	39.03	46.00	-6.97	QP

^{*:}Maximum data x:Over limit !:over margin



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Above 1GHz

Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 HZ	THU.				
Ant. Pol.	Ant. Pol. Horizontal					
Test Mode:	TX B Mode 2412MHz					
Remark:	No report for the emission	which more than 20 dE	B below the prescribed			
	limit.					

No	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4824.396	34.04	15.65	49.69	54.00	-4.31	AVG
2		4824.864	48.68	15.65	64.33	74.00	-9.67	peak

Emission Level= Read Level+ Correct Factor

Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage: AC 120V/60 HZ						
Ant. Pol.	Ant. Pol. Vertical					
Test Mode:	TX B Mode 2412MHz		mile in			
Remark:	No report for the emission which more than 20 dB below the					
	prescribed limit.					

Mk.	Freq.	Level	Factor	ment	Limit	Over	
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
-)	4823.700	48.83	15.65	64.48	74.00	-9.52	peak
*	4825.182	34.09	15.66	49.75	54.00	-4.25	AVG
*		4823.700	4823.700 48.83	4823.700 48.83 15.65	4823.700 48.83 15.65 64.48	4823.700 48.83 15.65 64.48 74.00	4823.700 48.83 15.65 64.48 74.00 -9.52



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Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 HZ	CHILD BY	
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2437MHz		
Remark:	B below the		
	prescribed limit.		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4875.338	34.31	15.89	50.20	54.00	-3.80	AVG
2		4875.464	49.36	15.89	65.25	74.00	-8.75	peak

Emission Level= Read Level+ Correct Factor

Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	Test Voltage: AC 120V/60 HZ					
Ant. Pol.	Vertical					
Test Mode:	TX B Mode 2437MHz					
Remark:	emark: No report for the emission which more than 20 dB below the					
	prescribed limit.					

No	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.124	48.49	15.87	64.36	74.00	-9.64	peak
2	*	4875.500	34.39	15.89	50.28	54.00	-3.72	AVG



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Te	emperature:	25 ℃	Relative Humidity:	55%	
Te	est Voltage:	AC 120V/60 HZ	THU		
Α	nt. Pol.	Horizontal		11:33	
Te	est Mode:	TX B Mode 2462MHz			
Remark: No report for the emission which more than 20 dB below the					
		prescribed limit.			

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4922.656	34.47	16.10	50.57	54.00	-3.43	AVG
2		4924.648	48.76	16.10	64.86	74.00	-9.14	peak

Emission Level= Read Level+ Correct Factor

Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 HZ						
Ant. Pol.	Vertical		THU.				
Test Mode:	TX B Mode 2462MHz						
Remark:	Remark: No report for the emission which more than 20 dB below the						
	prescribed limit.						

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4922.812	34.58	16.10	50.68	54.00	-3.32	AVG
2		4924.774	49.25	16.11	65.36	74.00	-8.64	peak



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_						
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage: AC 120V/60 HZ						
Ant. Pol.	Horizontal					
Test Mode:	TX G Mode 2412MHz					
Remark: No report for the emission which more than 20 dB below t						
	prescribed limit.					

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4822.626	48.26	15.65	63.91	74.00	-10.09	peak
2	*	4824.864	34.03	15.65	49.68	54.00	-4.32	AVG

Emission Level= Read Level+ Correct Factor

Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 HZ						
Ant. Pol.	Vertical						
Test Mode:	TX G Mode 2412MHz						
Remark: No report for the emission which more than 20 dB below the							
	prescribed limit.						

No	. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.910	52.60	15.65	68.25	74.00	-5.75	peak
2	×	4824.864	34.08	15.65	49.73	54.00	-4.27	AVG



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25 ℃	Relative Humidity:	55%
AC 120V/60 HZ	Million	
Horizontal		
TX G Mode 2437MHz		
No report for the emis	ssion which more than 20 dE	3 below the
	AC 120V/60 HZ Horizontal TX G Mode 2437MHz No report for the emis	AC 120V/60 HZ Horizontal TX G Mode 2437MHz No report for the emission which more than 20 dB

No	. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	0.7	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.850	45.89	15.88	61.77	74.00	-12.23	peak
2	*	4875.182	34.32	15.89	50.21	54.00	-3.79	AVG

Emission Level= Read Level+ Correct Factor

Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 HZ						
Ant. Pol.	Vertical						
Test Mode:	TX G Mode 2437MHz						
Remark: No report for the emission which more than 20 dB below the							
	prescribed limit.						

Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
*	4875.188	34.35	15.89	50.24	54.00	-3.76	AVG
	4875.368	49.02	15.89	64.91	74.00	-9.09	peak
	*	17.000	Mk. Freq. Level MHz dBuV * 4875.188 34.35	Mk. Freq. Level Factor MHz dBuV dB/m * 4875.188 34.35 15.89	Mk. Freq. Level Factor ment MHz dBuV dB/m dBuV/m * 4875.188 34.35 15.89 50.24	Mk. Freq. Level Factor ment Limit MHz dBuV dBuV/m dBuV/m dBuV/m * 4875.188 34.35 15.89 50.24 54.00	Mk. Freq. Level Factor ment Limit Over MHz dBuV dBuV dBuV/m dBuV/m dBuV/m dB * 4875.188 34.35 15.89 50.24 54.00 -3.76



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Temperature	: 25 °C Relative Humidity: 55%	
Test Voltage:	AC 120V/60 HZ	
Ant. Pol.	Horizontal	
Test Mode:	TX G Mode 2462MHz	3
Remark:	No report for the emission which more than 20 dB below the	
	prescribed limit.	111

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4925.116	48.39	16.12	64.51	74.00	-9.49	peak
2	*	4925.344	34.44	16.12	50.56	54.00	-3.44	AVG

Emission Level= Read Level+ Correct Factor

Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 HZ		100			
Ant. Pol.	Vertical					
Test Mode:	TX G Mode 2462MHz					
Remark:	No report for the emission which more than 20 dB below the					
	prescribed limit.					

No. Mk.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.592	48.55	16.10	64.65	74.00	-9.35	peak
2	*	4923.922	34.58	16.10	50.68	54.00	-3.32	AVG



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Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 HZ	CHILL ST.					
Ant. Pol.	nt. Pol. Horizontal						
Test Mode:	TX N(HT20) Mode 2412Ml	Hz					
Remark: No report for the emission which more than 20 dB below the							
	prescribed limit.						

No	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4823.604	34.03	15.65	49.68	54.00	-4.32	AVG
2		4824.288	48.98	15.65	64.63	74.00	-9.37	peak

Emission Level= Read Level+ Correct Factor

Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 HZ					
Ant. Pol.	Vertical					
Test Mode:	TX N(HT20) Mode 2412Ml	Hz				
Remark:	No report for the emission which more than 20 dB below the					
	prescribed limit.		CHID!			

No	. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	- 1	4823.448	49.22	15.65	64.87	74.00	-9.13	peak
2	*	4825.344	34.06	15.66	49.72	54.00	-4.28	AVG



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Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 HZ	CHILL ST.					
Ant. Pol.	Ant. Pol. Horizontal						
Test Mode:	TX N(HT20) Mode 2437Ml	Hz					
Remark: No report for the emission which more than 20 dB below the							
	prescribed limit.						

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.946	48.58	15.88	64.46	74.00	-9.54	peak
2	*	4875.500	34.31	15.89	50.20	54.00	-3.80	AVG

Emission Level= Read Level+ Correct Factor

Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 HZ					
Ant. Pol.	Vertical					
Test Mode:	TX N(HT20) Mode 2437M	Hz				
Remark:	No report for the emission which more than 20 dB below the					
	prescribed limit.					

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4875.080	48.67	15.89	64.56	74.00	-9.44	peak
2	*	4875.500	34.37	15.89	50.26	54.00	-3.74	AVG



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1	Temperature:	25 ℃	Relative Humidity:	55%		
	Test Voltage:	C 120V/60 HZ				
Ant. Pol. Horizontal						
	Test Mode:	TX N(HT20) Mode 2462MHz				
I	Remark:	No report for the emission which more than 20 dB below the				
		prescribed limit.				

No	. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4924.396	34.46	16.10	50.56	54.00	-3.44	AVG
2		4924.648	48.79	16.10	64.89	74.00	-9.11	peak

Emission Level= Read Level+ Correct Factor

Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	AC 120V/60 HZ	THU			
Ant. Pol.	Vertical				
Test Mode:	TX N(HT20) Mode 2462MH	Z	TOP.		
Remark: No report for the emission which more than 20 dB below the					
	prescribed limit.				

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4924.234	34.58	16.10	50.68	54.00	-3.32	AVG
2		4924.444	49.22	16.10	65.32	74.00	-8.68	peak



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_					
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage: AC 120V/60 HZ					
Ant. Pol.		7:33			
Test Mode:	TX N(HT40) Mode 2422M	Hz			
Remark:	No report for the emission which more than 20 dB below the				
	prescribed limit.				

No	. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4842.734	48.88	15.74	64.62	74.00	-9.38	peak
2	*	4843.448	34.16	15.74	49.90	54.00	-4.10	AVG

Emission Level= Read Level+ Correct Factor

25 ℃	Relative Humidity:	55%			
AC 120V/60 HZ	AC 120V/60 HZ				
Vertical	/ertical				
TX N(HT40) Mode 2422MI	Hz				
No report for the emission	No report for the emission which more than 20 dB below the				
prescribed limit.	prescribed limit.				
	AC 120V/60 HZ Vertical TX N(HT40) Mode 2422Ml No report for the emission	AC 120V/60 HZ Vertical TX N(HT40) Mode 2422MHz No report for the emission which more than 20 dE			

No	. Mk.	/lk. Freq.	Reading Level			Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	7.9	4843.184	49.01	15.74	64.75	74.00	-9.25	peak
2	*	4844.552	34.18	15.75	49.93	54.00	-4.07	AVG



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Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage: AC 120V/60 HZ					
Ant. Pol. Horizontal					
Test Mode: TX N(HT40) Mode 2437MHz					
Remark:	No report for the emission prescribed limit.	which more than 20 dE	B below the		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4875.374	48.46	15.89	64.35	74.00	-9.65	peak
2	×	4875.500	34.31	15.89	50.20	54.00	-3.80	AVG

Emission Level= Read Level+ Correct Factor

Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	AC 120V/60 HZ		100		
Ant. Pol.	Vertical				
Test Mode:	TX N(HT40) Mode 2437Ml	Hz			
Remark:	No report for the emission which more than 20 dB below the				
	prescribed limit.				

No	. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	+ T	4872.860	48.72	15.87	64.59	74.00	-9.41	peak
2	*	4875.500	34.34	15.89	50.23	54.00	-3.77	AVG



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Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage: AC 120V/60 HZ							
Ant. Pol.	Horizontal		133				
Test Mode:	TX N(HT40) Mode 2452MH	z					
Remark:	Remark: No report for the emission which more than 20 dB below the						
	prescribed limit.	prescribed limit.					

No	. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4902.974	34.61	16.02	50.63	54.00	-3.37	AVG
2		4903.430	48.87	16.01	64.88	74.00	-9.12	peak

Emission Level= Read Level+ Correct Factor

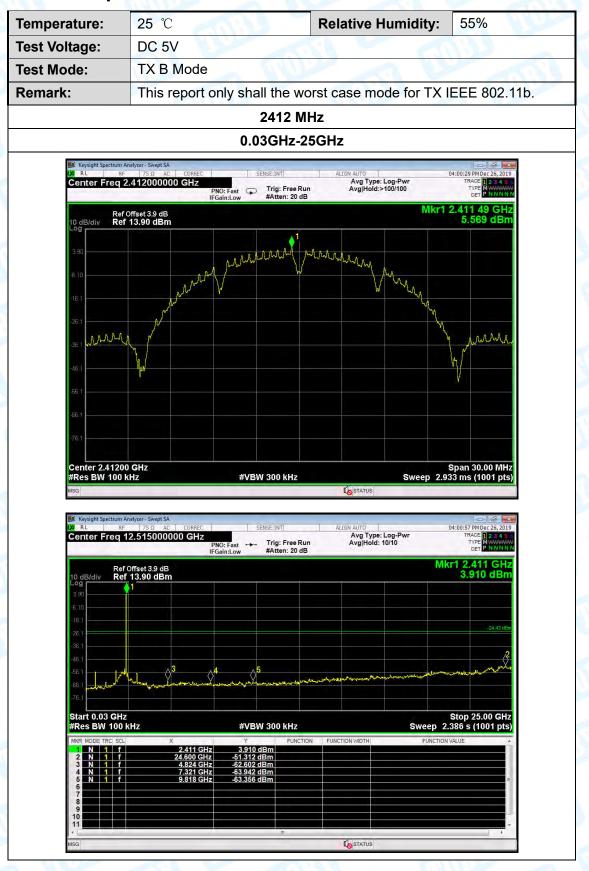
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 HZ	AC 120V/60 HZ					
Ant. Pol.	Vertical	Vertical					
Test Mode:	TX N(HT40) Mode 2452MH	Z	TOP				
Remark: No report for the emission which more than 20 dB below the prescribed limit.							

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4902.500	34.72	16.01	50.73	54.00	-3.27	AVG
2		4902.692	49.01	16.02	65.03	74.00	-8.97	peak



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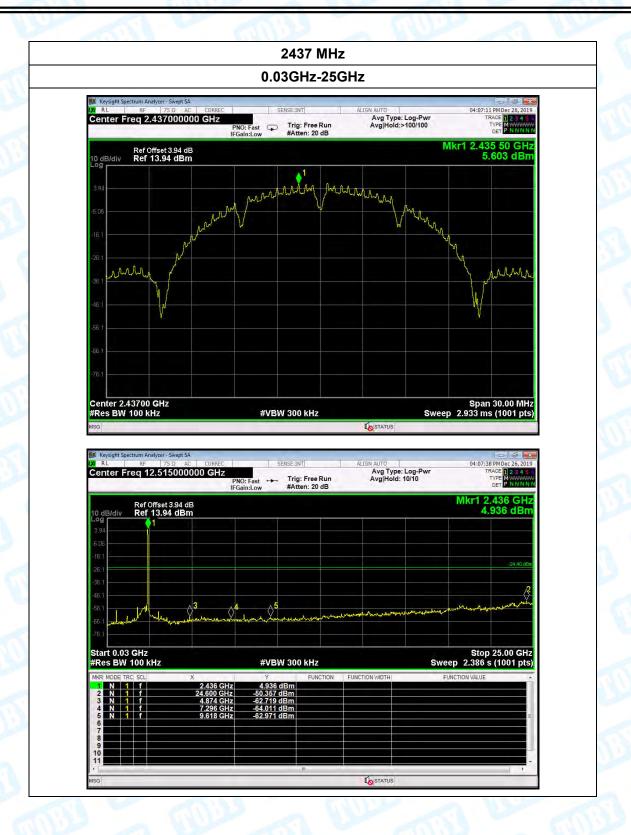
Conducted RF Spurious Emission Test Data







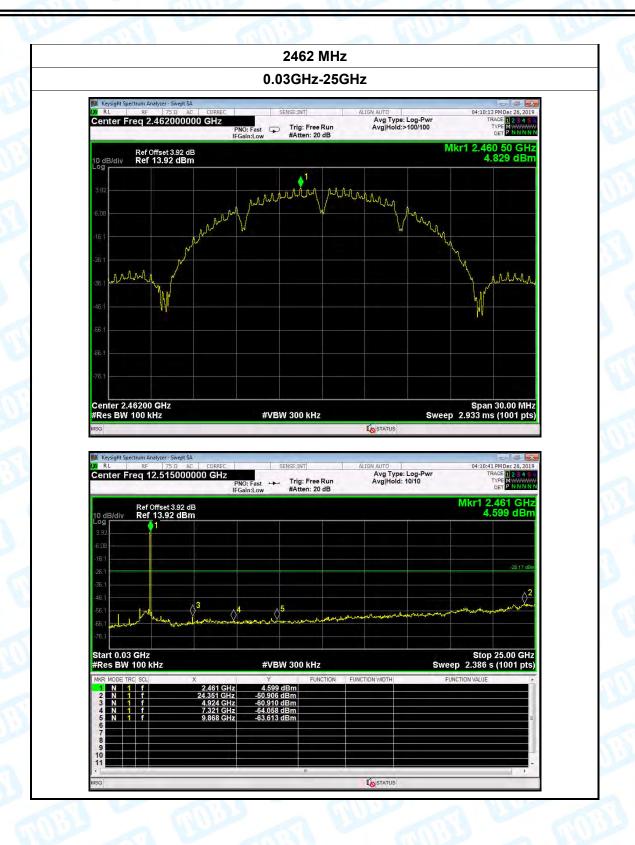
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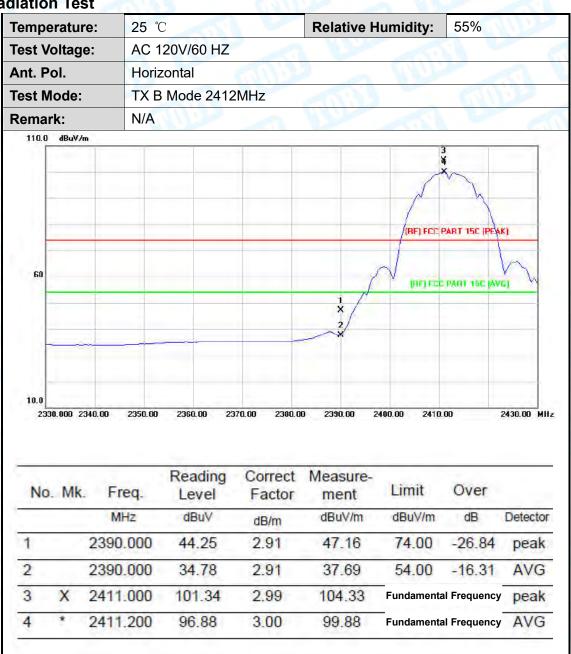




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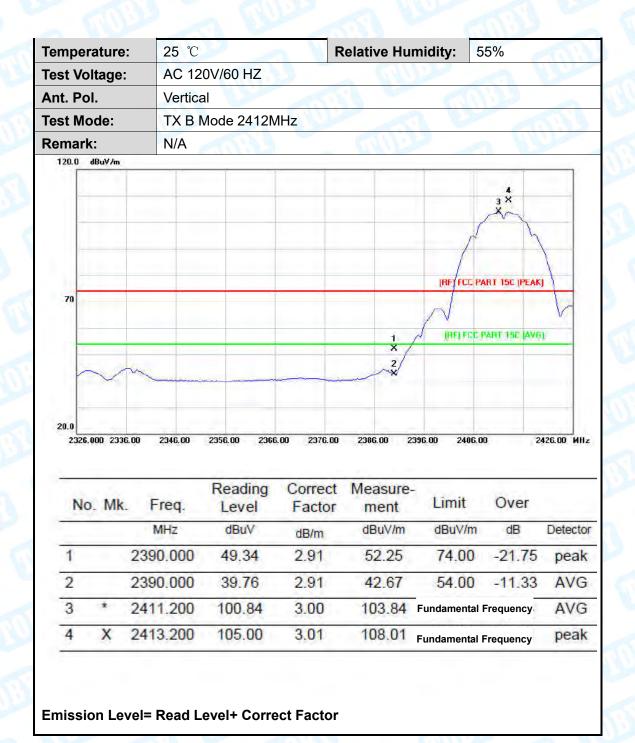
Attachment C-- Restricted Bands Requirement and Band-edge Test Data

(1) Radiation Test



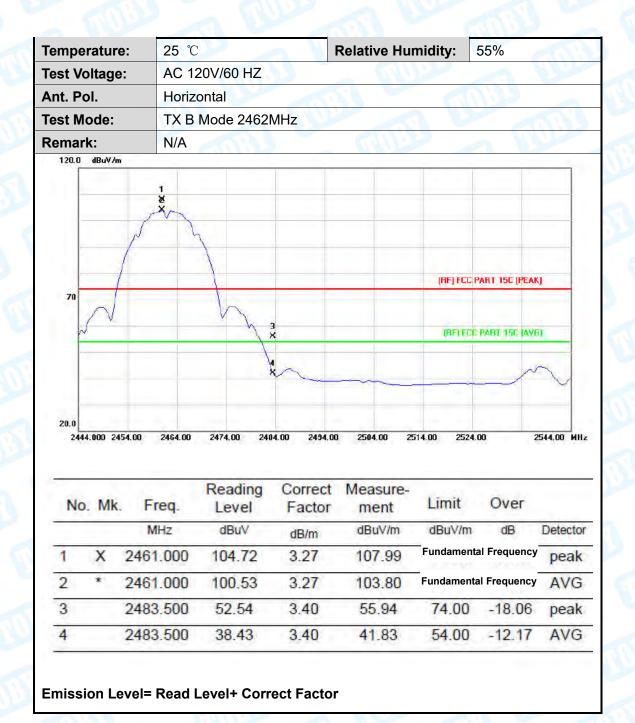


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Te	emperature:	25 ℃	Relative Humidity:	55%				
Te	est Voltage:	AC 120V/60 HZ	C 120V/60 HZ					
Α	nt. Pol.	Vertical	/ertical					
Te	est Mode:	TX B Mode 2462MHz						
R	emark:	N/A						

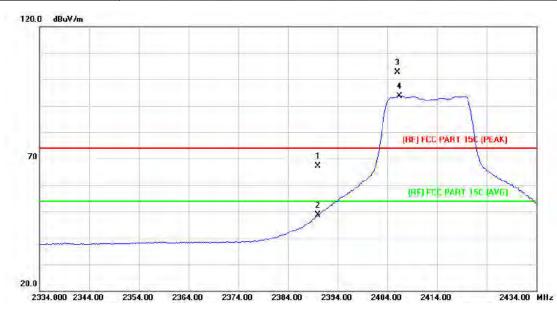


Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
X	2460.600	104.72	3,27	107.99	Fundamental Frequency		peak
*	2461.200	100.46	3.28	103.74	- Fundamental	Frequency	AVG
- 1	2483.500	56.50	3.40	59.90	74.00	-14.10	peak
	2483.500	39.11	3.40	42.51	54.00	-11.49	AVG
	X *	MHz X 2460.600 * 2461.200 2483.500	Mk. Freq. Level MHz dBuV X 2460.600 104.72 * 2461.200 100.46 2483.500 56.50	Mk. Freq. Level Factor MHz dBuV dB/m X 2460.600 104.72 3.27 * 2461.200 100.46 3.28 2483.500 56.50 3.40	Mk. Freq. Level Factor ment MHz dBuV dBuV/m dBuV/m X 2460.600 104.72 3.27 107.99 * 2461.200 100.46 3.28 103.74 2483.500 56.50 3.40 59.90	Mk. Freq. Level Factor ment Limit MHz dBuV dBuV dBuV/m dBuV/m X 2460.600 104.72 3.27 107.99 Fundamental * 2461.200 100.46 3.28 103.74 Fundamental 2483.500 56.50 3.40 59.90 74.00	Mk. Freq. Level Factor ment Limit Over MHz dBuV dBuV dBuV/m dBuV/m dBuV/m dB X 2460.600 104.72 3.27 107.99 Fundamental Frequency * 2461.200 100.46 3.28 103.74 Fundamental Frequency 2483.500 56.50 3.40 59.90 74.00 -14.10



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Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 HZ	C 120V/60 HZ					
Ant. Pol.	Horizontal						
Test Mode:	TX G Mode 2412MHz						
Remark:	N/A	THIS STATE OF					

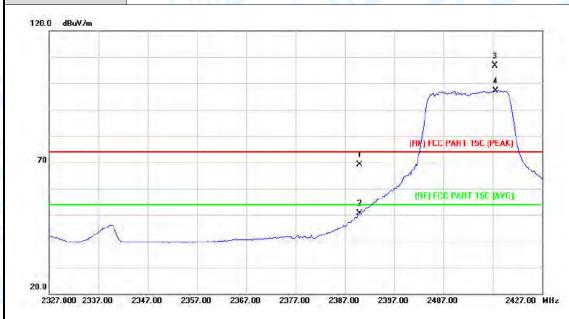


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	64.30	2.91	67.21	74.00	-6.79	peak
2		2390.000	45.73	2.91	48.64	54.00	-5.36	AVG
3	X	2406.000	99.70	2.97	102.67	Fundamental F	requency/	peak
4	*	2406.400	90.66	2.96	93.62	Fundamental F	requency	AVG



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í	Temperature:	25 ℃	Relative Humidity:	55%			
	Test Voltage:	AC 120V/60 HZ					
	Ant. Pol.	Vertical					
	Test Mode:	Mode: TX G Mode 2412MHz					
ľ	Remark:	N/A		2 110			



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	66.16	2.91	69.07	74.00	-4.93	peak
2		2390.000	47.70	2.91	50.61	54.00	-3.39	AVG
3	X	2417.400	103.56	3.04	106.60	- Fundamental	Frequency	peak
4	*	2417.600	94.17	3.04	97.21	Fundamental	Frequency	AVG



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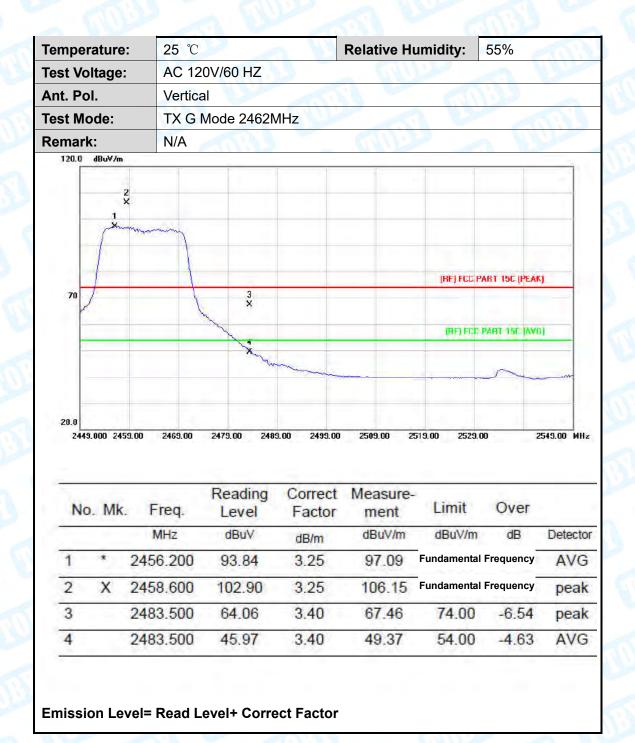
Temperature:	25 ℃	Relative Humidity:	55%					
Test Voltage:	AC 120V/60 HZ	AC 120V/60 HZ						
Ant. Pol.	Horizontal							
Test Mode:	TX G Mode 2462MHz							
Remark:								



No	. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2467.400	93.20	3.32	96.52	Fundamenta	l Frequency	AVG
2	X	2468.800	102.83	3.31	106.14	- Fundamenta	I Frequency	peak
3		2483.500	65.25	3.40	68.65	74.00	-5.35	peak
1		2483.500	45.67	3.40	49.07	54.00	-4.93	AVG
1		2483.500	45.67	3.40	49.07	54.0	00	00 -4.93

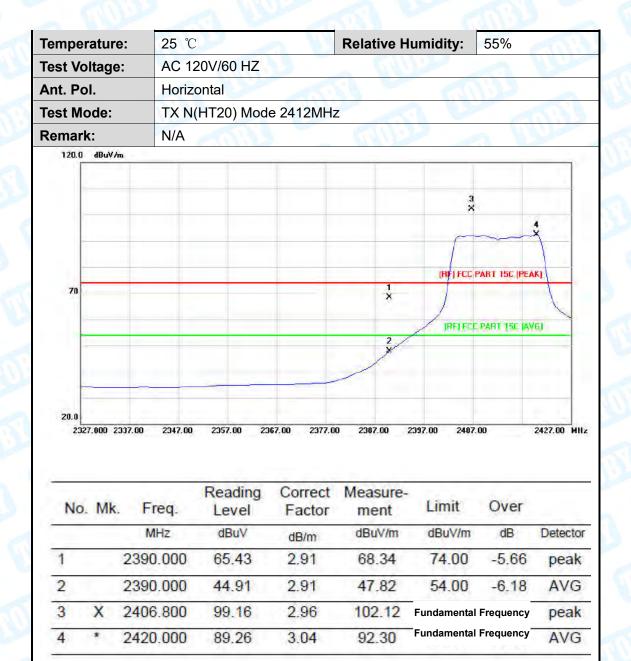


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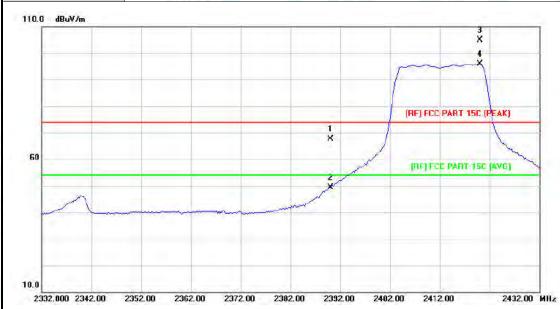
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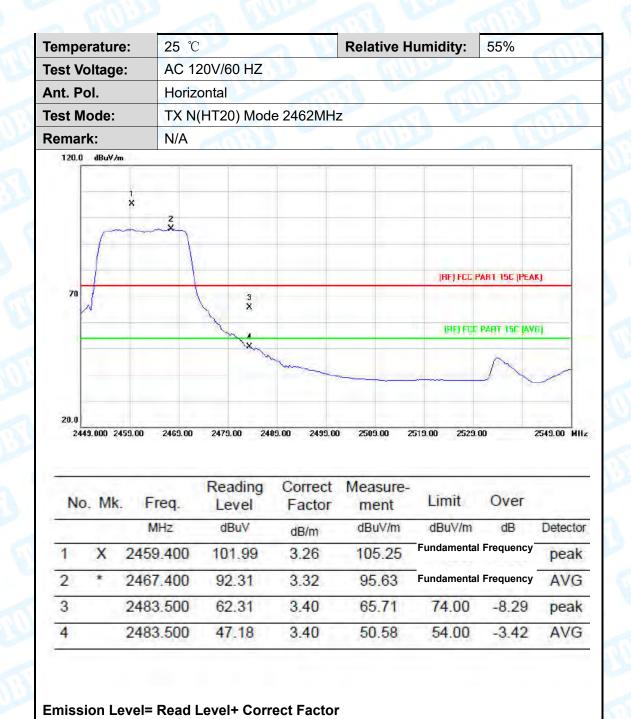
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	AC 120V/60 HZ	THU .			
Ant. Pol.	Vertical				
Test Mode:	TX N(HT20) Mode 2412MI	TX N(HT20) Mode 2412MHz			
Remark:	N/A				



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	64.63	2.91	67.54	74.00	-6.46	peak
2		2390.000	46.35	2.91	49.26	54.00	-4.74	AVG
3	Х	2420.000	101.84	3.04	104.88	- Fundamental	Frequency	peak
4	*	2420.000	92.95	3.04	95.99	Fundamental	Frequency	AVG

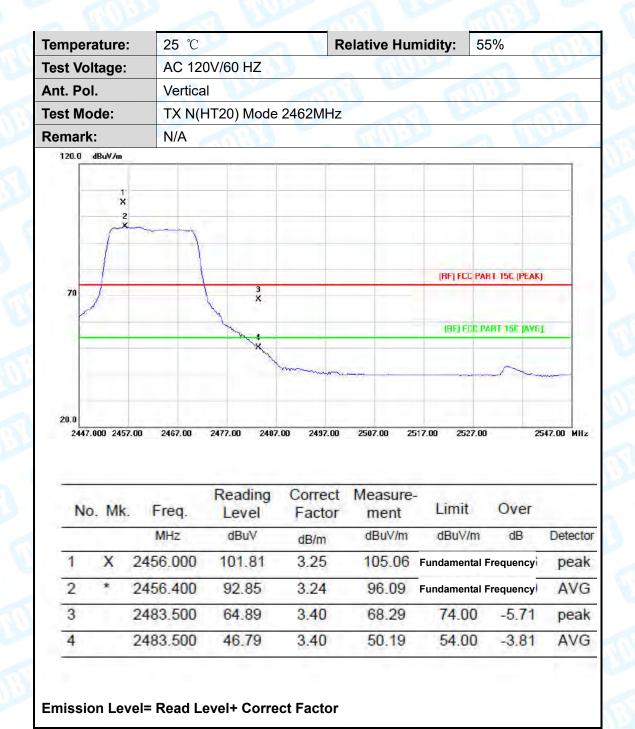


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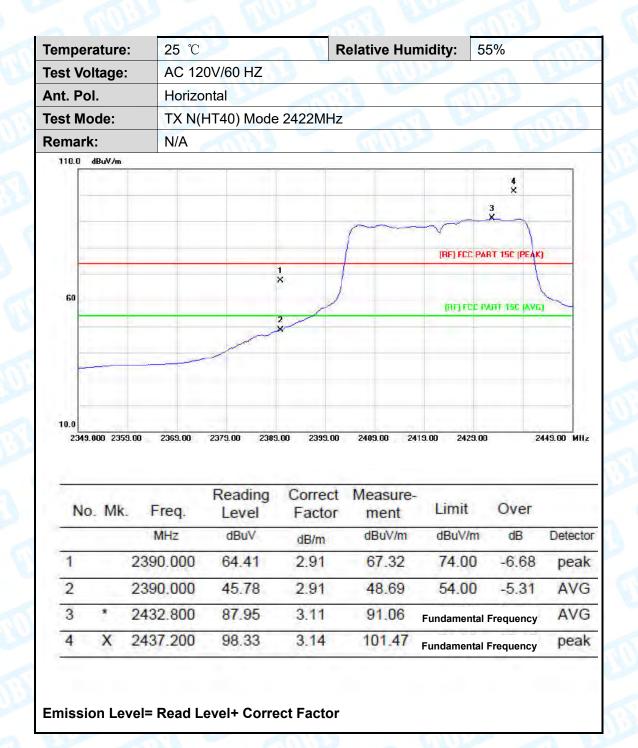


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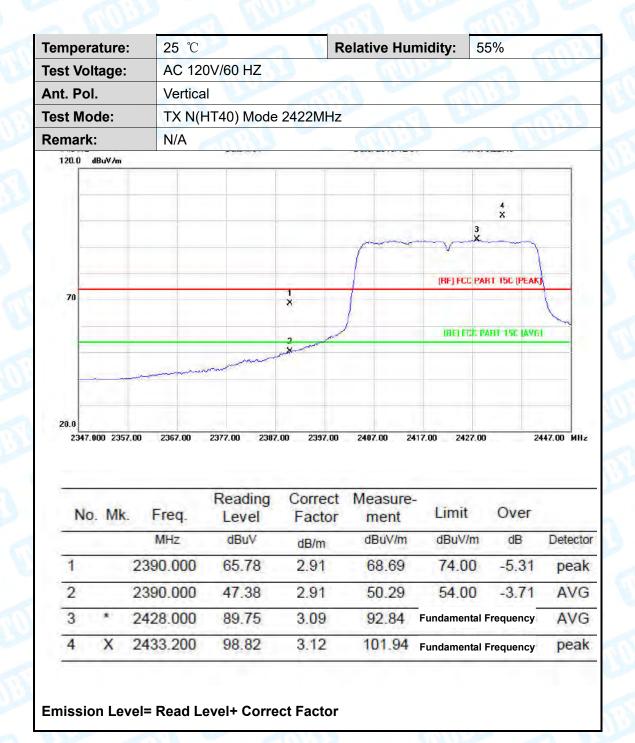


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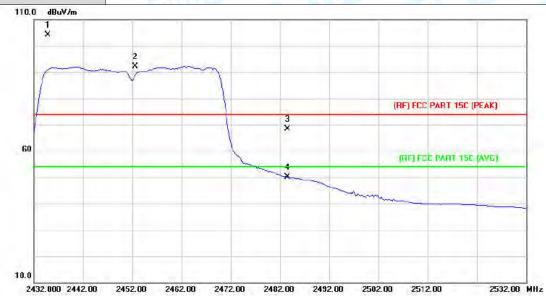
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Temperature:	25 ℃	Relative Humidity:	55%	
Test Voltage: AC 120V/60 HZ				
Ant. Pol. Horizontal				
Test Mode:	TX N(HT40) Mode 2452MHz			
Remark: N/A				
110.0 dBuV/m				
1 ×				

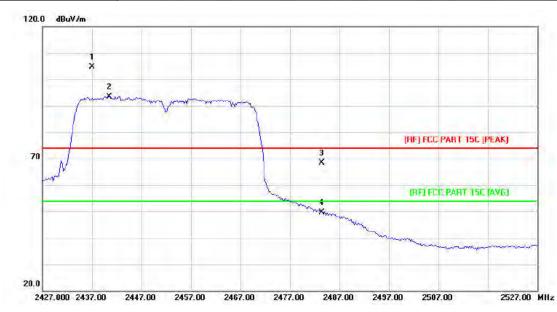


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2434.800	101.09	3.12	104.21	Fundamental	Frequency	peak
2	*	2452.554	88.86	3.23	92.09	Fundamental	Frequency	AVG
3		2483.500	64.94	3.40	68.34	74.00	-5.66	peak
4		2483.500	46.76	3.40	50.16	54.00	-3.84	AVG

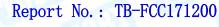


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	Temperature:	25 ℃	Relative Humidity:	55%	
}	Test Voltage:	AC 120V/60 HZ			
	Ant. Pol.	Vertical			
	Test Mode:	TX N(HT40) Mode 2452M	TX N(HT40) Mode 2452MHz		
	Remark:	N/A	MILLER		



Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
X	2437.000	101.55	3.13	104.68	Fundamenta	l Frequency	peak
*	2440.600	90.33	3.16	93.49	Fundamenta	I Frequency	AVG
	2483.500	64.98	3.40	68.38	74.00	-5.62	peak
	2483.500	46.12	3.40	49.52	54.00	-4.48	AVG
	X *	MHz X 2437.000 * 2440.600	Mk. Freq. Level MHz dBuV X 2437.000 101.55 * 2440.600 90.33 2483.500 64.98	Mk. Freq. Level Factor MHz dBuV dB/m X 2437.000 101.55 3.13 * 2440.600 90.33 3.16 2483.500 64.98 3.40	Mk. Freq. Level Factor ment MHz dBuV dB/m dBuV/m X 2437.000 101.55 3.13 104.68 * 2440.600 90.33 3.16 93.49 2483.500 64.98 3.40 68.38	Mk. Freq. Level Factor ment Limit MHz dBuV dBuV dBuV/m dBuV/m X 2437.000 101.55 3.13 104.68 Fundamenta * 2440.600 90.33 3.16 93.49 Fundamenta 2483.500 64.98 3.40 68.38 74.00	Mk. Freq. Level Factor ment Limit Over MHz dBuV dBuV dBuV/m dBuV/m dBuV/m dB X 2437.000 101.55 3.13 104.68 Fundamental Frequency * 2440.600 90.33 3.16 93.49 Fundamental Frequency 2483.500 64.98 3.40 68.38 74.00 -5.62





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(2) Conducted Test







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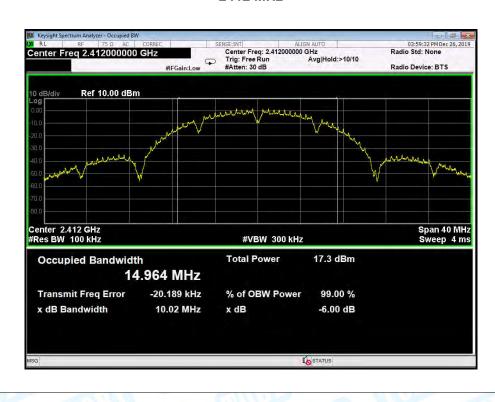


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Attachment D-- Bandwidth Test Data

Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 HZ		17:33
Test Mode:	TX 802.11B Mode		
Channel frequence	y 6dB Bandwidth	99% Bandwidth	Limit
(MHz)	(MHz)	(MHz)	(MHz)
2412	10.02	14.964	
2437	9.083	15.010	>=0.5
2462	10.05	14.947	
	•		•

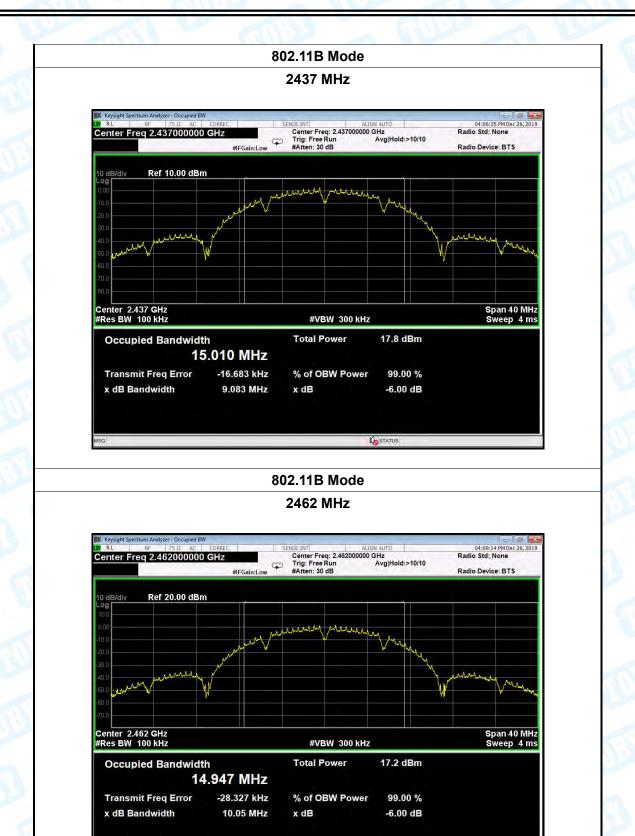
802.11B Mode





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Center 2.412 GHz #Res BW 100 kHz

Occupied Bandwidth

Transmit Freq Error

x dB Bandwidth

16.604 MHz

-619 Hz

16.43 MHz

Report No.: TB-FCC171200

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Temperature:	25 ℃	Relative Humidity:	55%	
Test Voltage:	AC 120V/60 HZ			
Test Mode:	TX 802.11G Mode	The state of the s	1:13	
Channel frequen	cy 6dB Bandwidth	99% Bandwidth	Limit	
(MHz)	(MHz)	(MHz)	(MHz)	
2412	16.43	16.604		
2437	16.38	16.608	>=0.5	
2462	16.38	16.614		
	802.11G	Mode		
	2412 N	1Hz		

#VBW 300 kHz

12.9 dBm

99.00 %

-6.00 dB

Total Power

x dB

% of OBW Power

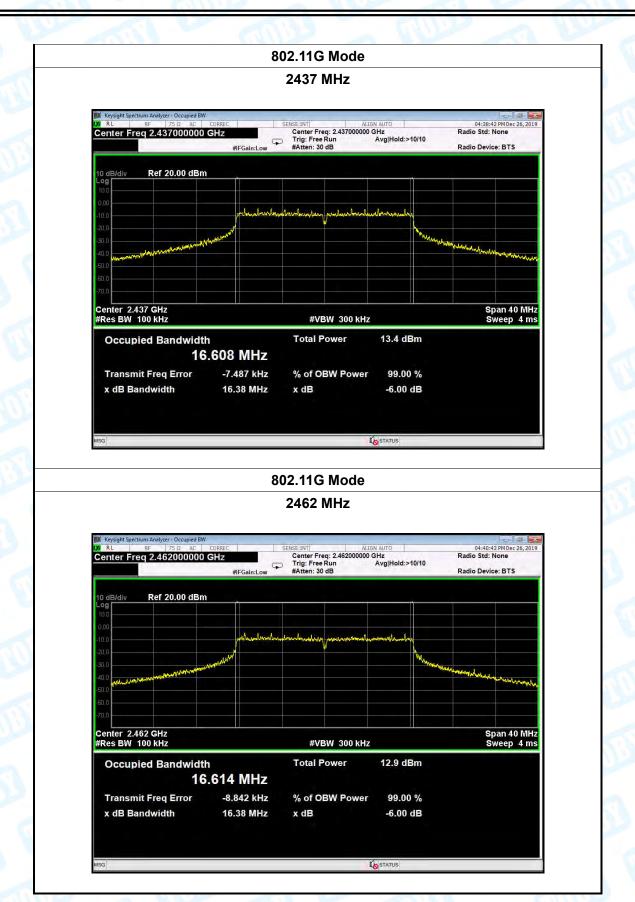
TB-RF-074-1.0

Span 40 MHz Sweep 4 ms



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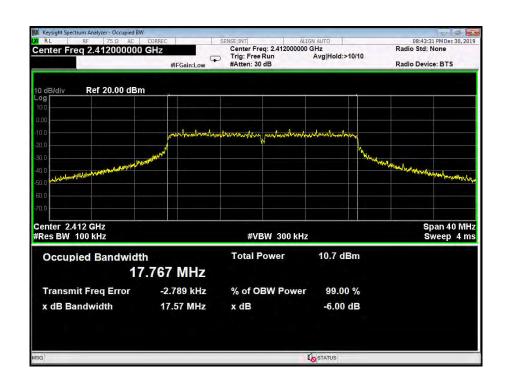




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	Temperature:	25 ℃	Relative Humidity:	55%
}	Test Voltage:	AC 120V/60 HZ		
Test Mode: TX 802.11N(HT20) Mode				
	Channel frequence	cy 6dB Bandwidth	99% Bandwidth	Limit
	(MHz)	(MHz)	(MHz)	(MHz)
	2412	17.57	17.767	
	2437	17.58	17.750	>=0.5
	2462	17.57	17.773	
		802 11N/HT	20) Mode	

802.11N(HT20) Mode

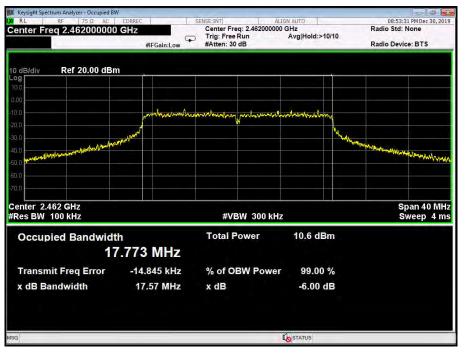






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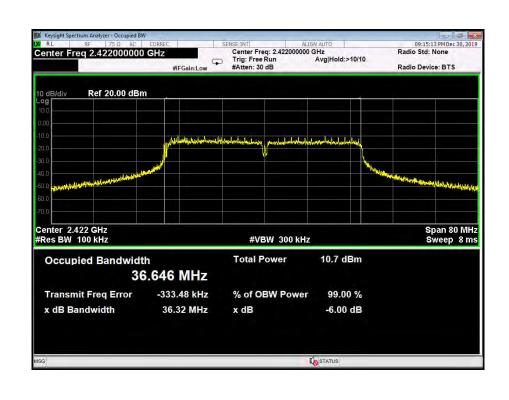




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Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage: AC 120V/60 HZ			
Test Mode: TX 802.11N(HT40) Mode		THE PARTY OF THE P	
Channel frequence	cy 6dB Bandwidth	99% Bandwidth	Limit
(MHz)	(MHz)	(MHz)	(MHz)
2422	36.32	36.646	
2437	35.46	36.627	>=0.5
2452	35.28	36.074	
	902 11N/UTA	IO) Modo	1

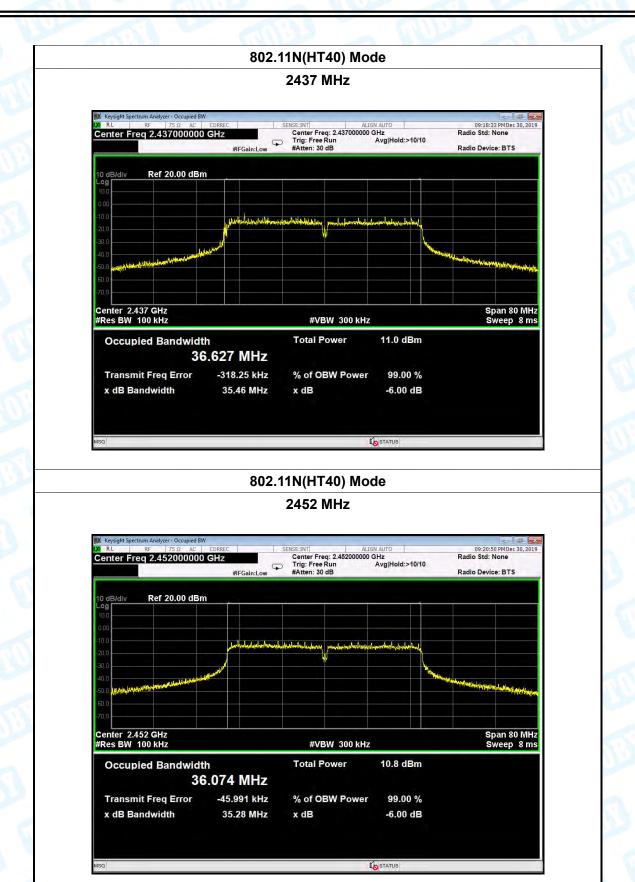
802.11N(HT40) Mode





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Attachment E-- Peak Output Power Test Data

Test Condition	s: Continuous Transn	nitting Mode	
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 HZ		38
Mode	Channel frequency (MHz)	Test Result (dBm)	Limit (dBm)
	2412	15.87	
802.11b	2437	16.43	
	2462	15.71	
	2412	15.98	
802.11g	2437	16.45	
	2462	15.90	30
802.11n	2412	13.15	30
(HT20)	2437	13.88	
(11120)	2462	13.24	
802.11n	2422	13.35	
(HT40)	2437	13.68	
(11170)	2452	13.57	
	Resi	ult: PASS	



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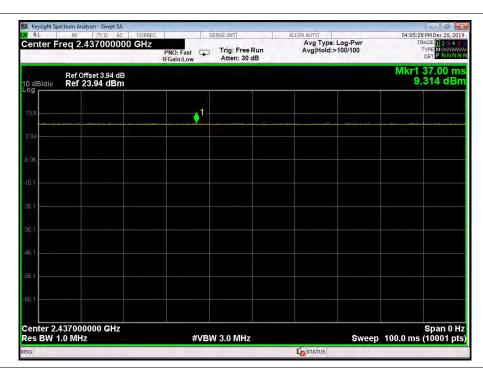
	Duty Cycl	е
Mode	Channel frequency (MHz)	Test Result
	2412	
802.11b	2437	
	2462	
	2412	
802.11g	2437	
	2462	. 200/
000 44	2412	>98%
802.11n	2437	
(HT20)	2462	
	2422	
802.11n	2437	
(HT40)	2452	
ease see belo	w plots	



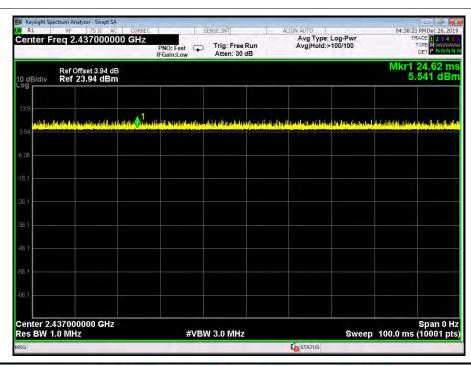
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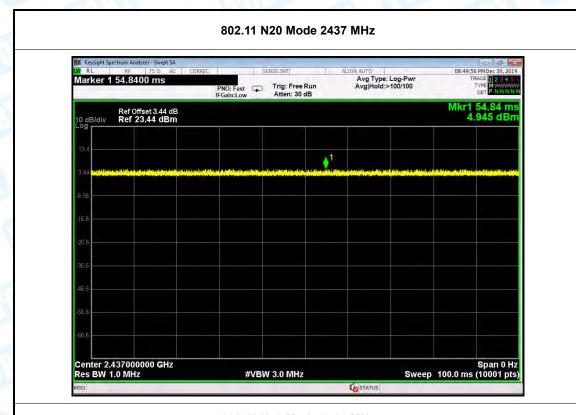
802.11 G Mode 2437 MHz



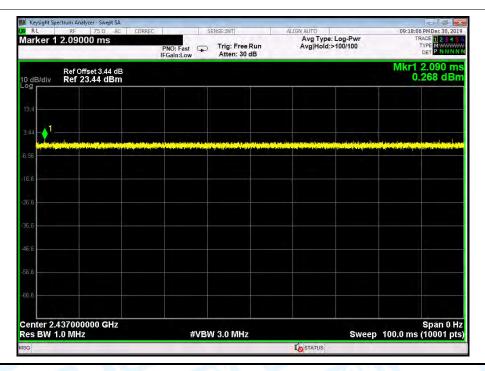


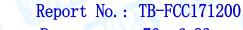
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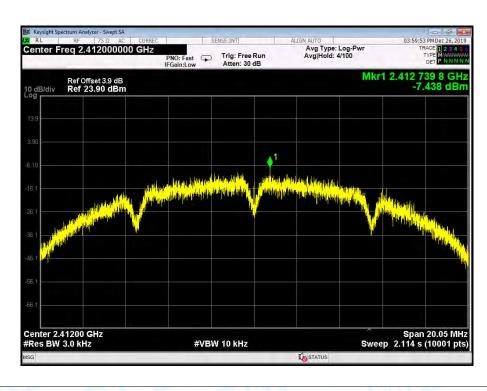
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Attachment F-- Power Spectral Density Test Data

			The state of the s		
Temperature:	25 ℃		Relative Humidity:	55%	
Test Voltage:	AC 120V/60 HZ				
Test Mode:	TX 802.11B Mode				
Channel Frequency		Power Density		Limit	
(MHz)		(dBm/3 kHz)		(dBm/3 kHz)	
2412		-7.43	88		
2437		-7.415		8	
2462		-9.172			
M		002 44 D	Mada		

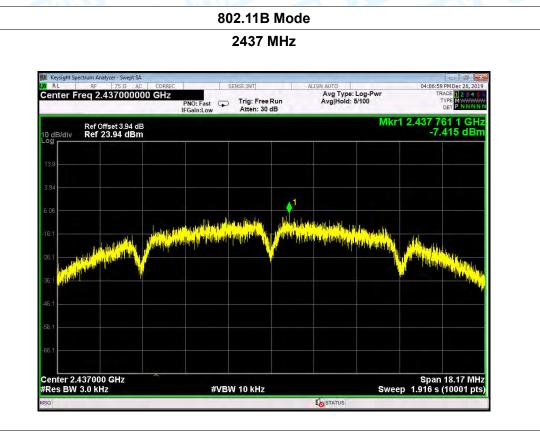
802.11B Mode



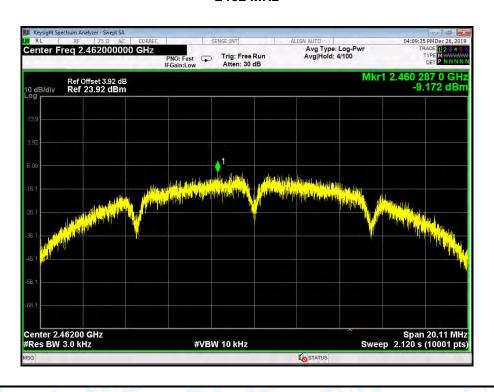


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802.11B Mode

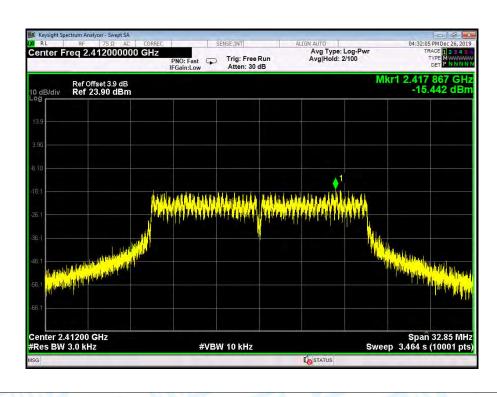




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Temperature:	25 ℃	Temperature: 25 °C			
Test Voltage:	AC 120V/60 HZ				
Test Mode:	TX 802.11G Mode				
Channel Freq	equency Power Density Limit			Limit	
(MHz)		(dBm/3	kHz)	(dBm/3 kHz)	
2412		-15.44	12		
2437		-14.20	65	8	
2462		-15.24	246		
		802 11G	Mode		

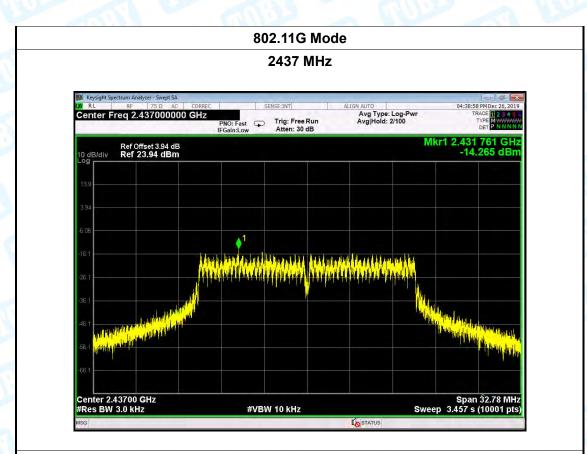
802.11G Mode



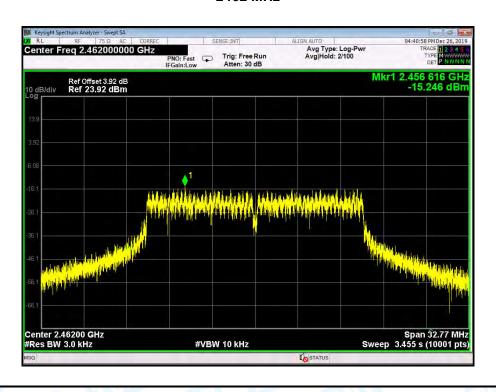


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802.11G Mode

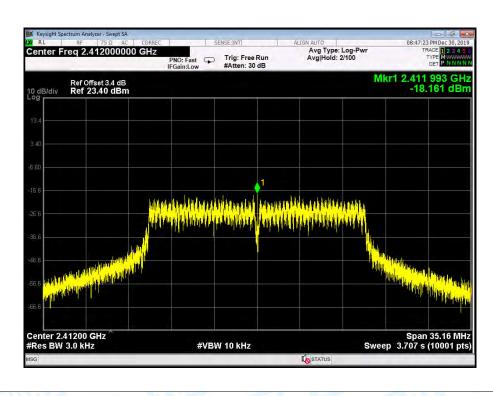




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Temperature:	25 ℃	Temperature		25 ℃
Test Voltage:	AC 120V/60 HZ			
Test Mode:	TX 802.11N(HT20) Mode			
Channel Frequency		Power De	ensity	Limit
(MHz)		(dBm/3	kHz)	(dBm/3 kHz)
2412	2412		-18.161	
2437 2462		-17.31	7	8
		-17.976		
		000 44N/UTO	O\ Mada	

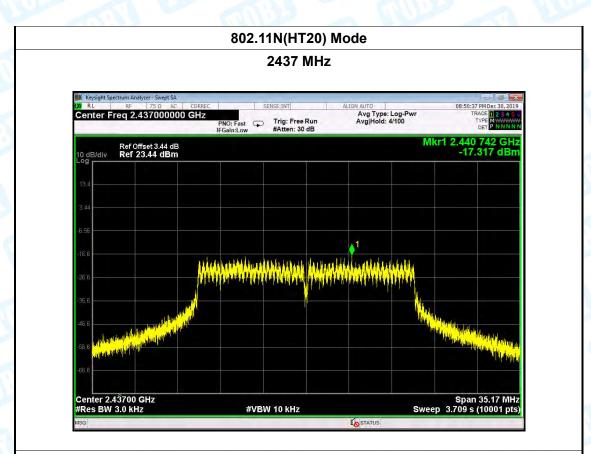
802.11N(HT20) Mode





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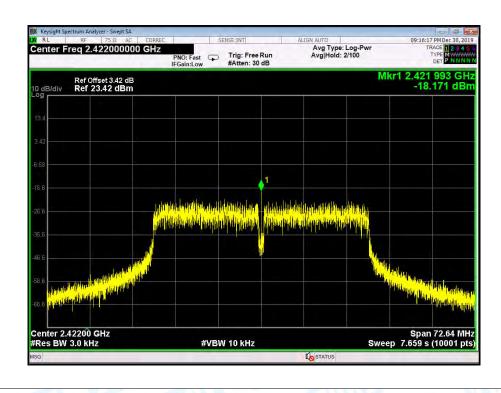
802.11N(HT20) Mode





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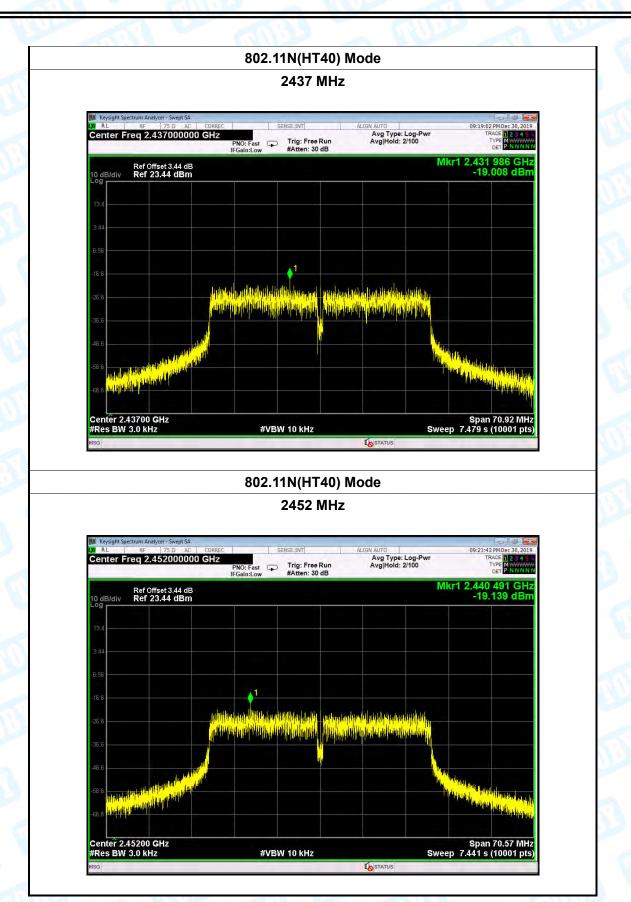
Temperature:	25 ℃	100	Temperature:	25 ℃
Test Voltage:	AC 120V/60 HZ			
Test Mode:	TX 802.11N(HT40) Mode			
Channel Frequency Pow		Power De	nsity	Limit
(MHz)		(dBm/3 k	Hz)	(dBm/3 kHz)
2422		-18.17	1	
2437		-19.008		8
2452 -19.139			9	
		802.11N(HT4	O) Mode	





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----END OF REPORT----