

Shenzhen Toby Technology Co., Ltd.

Report No.: TB-FCC164759

1 of 75 Page:

FCC Radio Test Report FCC ID: 2ADYO-SL170X

Original Grant

Report No. TB-FCC164759

Sensoro Co., Ltd. **Applicant**

Equipment Under Test (EUT)

EUT Name SENSORO LENS

Model No. SL1701 Series Model No. **SL170X**

Brand Name SENSORO

2019-03-13 **Receipt Date**

2019-03-13 to 2019-04-20 **Test Date**

Issue Date 2019-04-23

Standards FCC Part 15, Subpart C (15.247:2019)

Test Method ANSI C63.10: 2013

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

IVAN SU fayta. Approved& **Authorized**

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

TB-RF-074-1.0

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Revision History

Report No.	Version	Description	Issued Date
TB-FCC164759	Rev.01	Initial issue of report	2019-04-23
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1. General Information about EUT

1.1 Client Information

Applicant : Sensoro Co., Ltd.

Address Room 2807, Building 1B, Wangjing SOHO, No. 10 Wangjing Street,

Chaoyang District, Beijing, China

Manufacturer: Hangzhou Xiongmai Technology Co., Ltd.

Address No2 Dongqiao Rd Dongzhou Functional Zone, Dongzhou Street

Fuyang District, Hangzhou, China

1.2 General Description of EUT (Equipment Under Test)

EUT Name		SENSORO LENS			
Models No.		SL1701,SL170X			
Model Difference		: All these models are identical in the same PCB layout electrical circuit, The only difference is the difference Appearance of the color and model.			
	5	Operation Frequency: Number of Channel: Max Output	802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz 802.11b/g/n(HT20):11 channels see note(3) 802.11n(HT40):7 channels see note(3) 802.11b: 17.60 dBm		
Product Description		Power: Antenna Gain: Modulation Type:	5dBi FPC Antenna 802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n: OFDM(BPSK,QPSK,16QAM,		
		Bit Rate of Transmitter:	64QAM) 802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps 802.11n:up to 150Mbps		
Power Supply	:	DC Voltage sup	plied by AC/DC Adapter		
Power Rating): 	AC/DC Adapter (SLU2808): Input: AC 100~240V, 50/60Hz, 0.6A. Output: DC 5V, 2A.			
Software Version		V1.03			
Hardware Version		V1.4x			
Connecting I/O Port(S)	:	Please refer to the User's Manual			



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Note:

(1) This Test Report is FCC Part 15.247 for 802.11b/g/n, the test procedure follows the FCC KDB 558074 D01 v05r02.

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

(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	08	2447		
Note:CH 01~CH 11 for 802.11b/g/n(HT20), CH 03~CH 09 for 802.11n(HT40)					

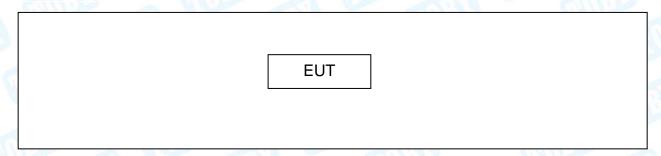
(4) The Antenna information about the equipment is provided by the applicant.

1.3 Block Diagram Showing the Configuration of System Tested

Adapter + TX Mode

F & 1 Ib Ib				
	Adapter	EUT		

TX Mode



1.4 Description of Support Units

			E-111111			
Equipment Information						
		_ •	1			
Name	Model	FCC ID/VOC	Manufacturer	Used "√"		
		_				
		C	11110	A KILL		
	Cable Information					



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Number	Shielded Type	Ferrite Core	Length	Note
WU 777	THE PARTY OF THE P			WILLIAM STATE

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	Adapter + TX B Mode			

For Radiated Test				
Final Test Mode Description				
Mode 2 Adapter +TX Mode B Mode Channel 01/06/1				
Mode 3	Adapter +TX Mode G Mode Channel 01/06/11			
Mode 4	Adapter +TX Mode N(HT20) Mode Change 4 01/06/11			
Mode 5	Adapter +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 considered a portable 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		CMD.exe	
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
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 %.

and the second s		
Test Item	Parameters	Expanded Uncertainty (U _{Lab})
	Level Accuracy:	WY STATE OF THE ST
Conducted Emission	9kHz~150kHz	±3.42 dB
	150kHz to 30MHz	±3.42 dB
	Level Accuracy:	. 4 CO dD
Radiated Emission	9kHz to 30 MHz	±4.60 dB
Dedicted Emission	Level Accuracy:	. 4. 40 dD
Radiated Emission	30MHz to 1000 MHz	±4.40 dB
Dadiated Emission	Level Accuracy:	. 4 20 dD
Radiated Emission	Above 1000MHz	±4.20 dB



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1.8 Test Facility

The testing was 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.

FCC Accredited Test Site Number: 854351.

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.

IC Registration No.: (11950A-1)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A-1.



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2. Test Summary

	FCC Part	t 15 Subpart C(15.247)/ RSS 247	Issue 1	
Standa	rd Section	Toot Itom	ludament	Domork
FCC	IC	Test Item	Judgment	Remark
15.203	1	Antenna Requirement	PASS	N/A
15.207	RSS-GEN 7.2.4	Conducted Emission	PASS	N/A
15.205	RSS-GEN 7.2.2	Restricted Bands	PASS	N/A
15.247(a)(2)	RSS 247 5.2 (1)	6dB Bandwidth	PASS	N/A
15.247(b)	RSS 247 5.4 (4)	Peak Output Power	PASS	N/A
15.247(e)	RSS 247 5.2 (2)	Power Spectral Density	PASS	N/A
15.247(d)	RSS 247 5.5	Band Edge	PASS	N/A
15.247(d)& 15.209	RSS 247 5.5	Transmitter Radiated Spurious Emission	PASS	N/A

Note: "/" for no requirement for this test item.

N/A is an abbreviation for Not Applicable.



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3. Test Equipment

Conducted Emiss	ion Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date	
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jul.18, 2018	Jul. 17, 2019	
RF Switching Unit	Compliance Direction Systems Inc			Jul.18, 2018	Jul. 17, 2019	
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul.18, 2018	Jul. 17, 2019	
LISN	Rohde & Schwarz	ENV216	101131	Jul.18, 2018	Jul. 17, 2019	
Radiation Emission	on Test			<u>-</u>		
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date	
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul.18, 2018	Jul. 17, 2019	
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jul.18, 2018	Jul. 17, 2019	
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Jan. 27, 2019	Jan. 26, 2020	
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Jan. 27, 2019	Jan. 26, 2020	
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar.03, 2019	Mar. 02, 2020	
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar.03, 2019	Mar. 02, 2020	
Loop Antenna	SCHWARZBECK	FMZB 1519 B 1519B-059		Jul. 14, 2018	Jul.13, 2019	
Pre-amplifier	Sonoma	310N	185903	Mar.04, 2019	Mar. 03, 2020	
Pre-amplifier	HP	8449B	3008A00849	Mar.03, 2019	Mar. 02, 2020	
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar.03, 2019	Mar. 02, 2020	
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A	
Antenna Conduct	ed Emission					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date	
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 18, 2018	Jul. 17, 2019	
Spectrum Analyzer	Rohde & Schwarz	ESCI	100010/007	Jul. 18, 2018	Jul. 17, 2019	
MXA Signal Analyzer	Agilent	N9020A	MY49100060	Sep. 15, 2018	Sep. 14, 2019	
Vector Signal Generator	Agilent	N5182A	MY50141294	Sep. 15, 2018	Sep. 14, 2019	
Analog Signal Generator	Agilent	N5181A	MY50141953	Sep. 15, 2018	Sep. 14, 2019	
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO26	Sep. 15, 2018	Sep. 14, 2019	
-577733	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO29	Sep. 15, 2018	Sep. 14, 2019	
RF Power Sensor	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO31	Sep. 15, 2018	Sep. 14, 2019	
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO33	Sep. 15, 2018	Sep. 14, 2019	



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4. Conducted Emission Test

4.1 Test Standard and Limit

4.1.1Test Standard FCC Part 15.207

4.1.2 Test Limit

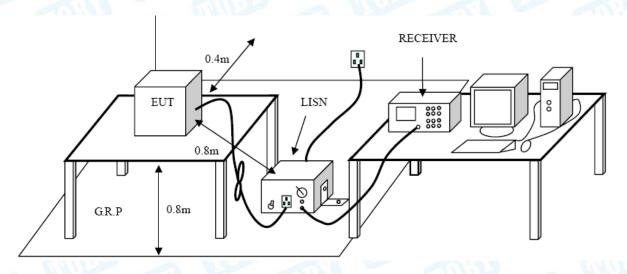
Conducted Emission Test Limit

	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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5. 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	

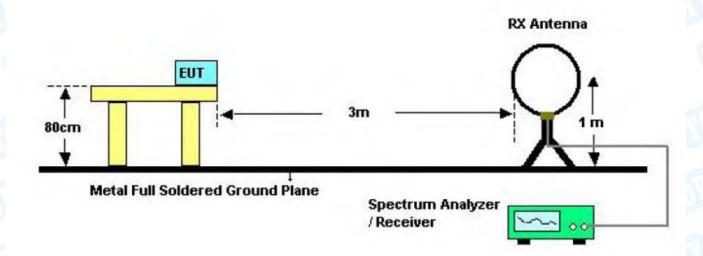
Note:

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

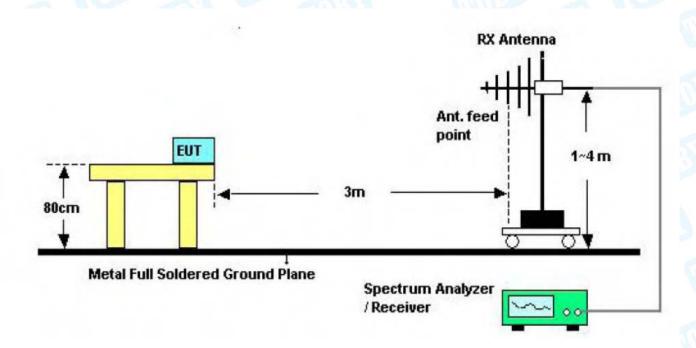


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5.2 Test Setup



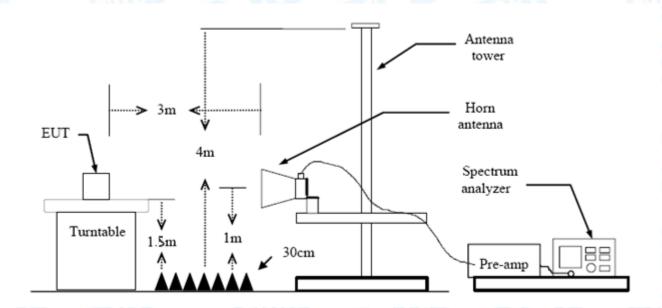
Below 30MHz Test Setup



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) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (3) 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.
- (4) 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.
- (5) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (6) 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.
- (7) 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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6. Restricted Bands and Band-edge test

6.1 Test Standard and Limit

6.1.1 Test Standard

FCC Part 15.247(d)

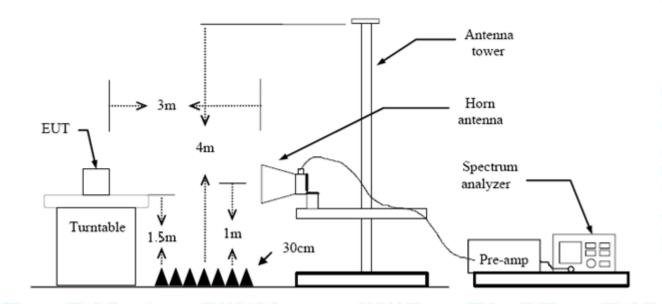
FCC Part 15.209

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 up to 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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7. 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	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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8. Peak Output Power Test

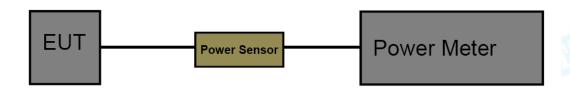
8.1 Test Standard and Limit

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 15.247 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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9. 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 15.247 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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10. 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.

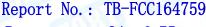
10.2 Antenna Connected Construction

The directional gains of the antenna used for transmitting is 5dBi, 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 FPC Antenna. It complies with the standard requirement.

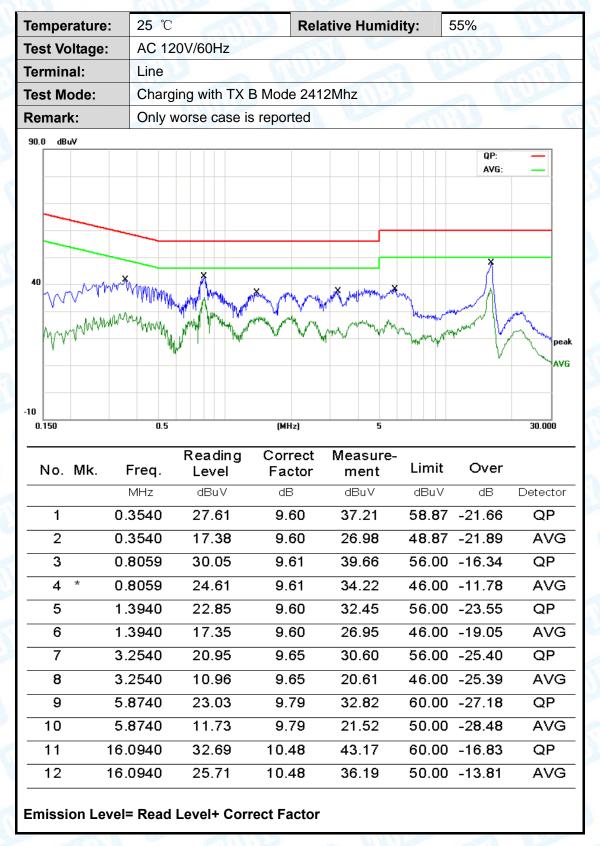
	Antenna Type						
J. S.	⊠Permanent attached antenna	CAT.					
a D	Unique connector antenna						
	Professional installation antenna	Million					





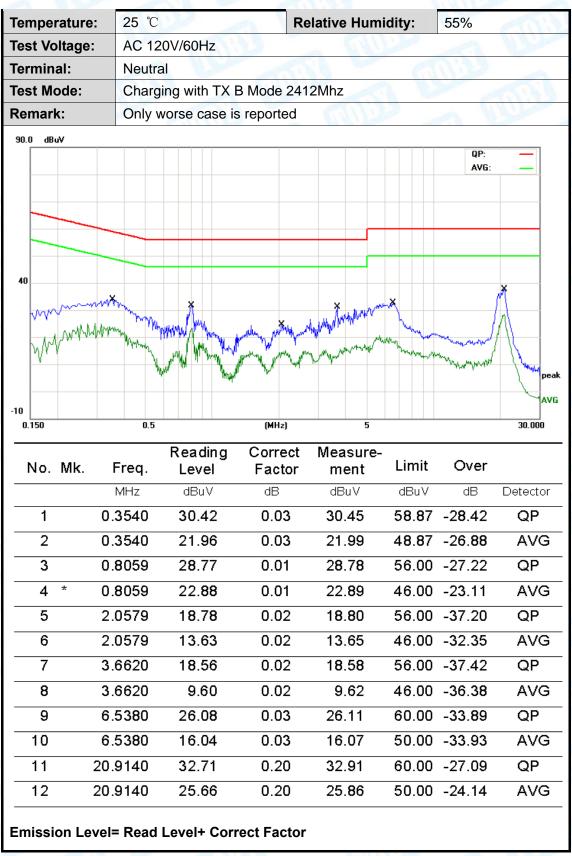
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Attachment A-- Conducted Emission Test Data





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Remark: All channels have been tested and Shows only the worst channels.



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Attachment B-- Radiated Emission and Restricted Bands Requirement 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

/IHz~1GHz	GIV)				N. P.				13
Temperatu	re:	25 ℃		13		Relative Hu	ımidity:	55%	
Test Voltag	je:	AC 120V/60HZ							
Ant. Pol.		Horizontal							
Test Mode:		TX B	Mode 2	2462N	/IHz	W.		A RIVE	
Remark:		Below 1GHz test data. This report only shall the worst case mode for TX IEEE 802.11b 2462MHz.							ode for
80.0 dBuV/m									
-20 30.000 40) 50	60 70	0 80	<i></i>	(MHz)	300	(RF)FCC 15	C 3M Radiation Margin -6 dl	1000.000
			Rea	ding	Correct	Measure-			
No. Mk	. Fr	eq.	Le	vel	Factor	ment	Limit	O∨er	
	М	Hz	dB	u∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	67.2	2022	42	.09	-23.62	18.47	40.00	-21.53	QP
2	187.0	0958	41	.81	-19.62	22.19	43.50	-21.31	QP
3	351.7	7079	43	.42	-14.03	29.39	46.00	-16.61	QP
4 *	443.2	2943	52	.54	-11.59	40.95	46.00	-5.05	QP
5	547.0	0977	40	.87	-8.70	32.17	46.00	-13.83	QP
6	887.6	6099	40	.23	-4.03	36.20	46.00	-9.80	QP



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Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60HZ					
Ant. Pol.	Vertical		THUS TO			
Test Mode:	TX B Mode 2462MHz					
Remark:	Below 1GHz test data. This report only shall the worst case mode for TX IEEE 802.11b 2462MHz.					



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		32.4059	45.41	-14.81	30.60	40.00	-9.40	QP
2		47.6586	54.83	-22.36	32.47	40.00	-7.53	QP
3		449.5558	49.58	-11.55	38.03	46.00	-7.97	QP
4	İ	547.0977	49.35	-8.70	40.65	46.00	-5.35	QP
5	*	827.4934	47.60	-5.28	42.32	46.00	-3.68	QP
6	!	887.6099	45.01	-4.03	40.98	46.00	-5.02	QP



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Above 1GHz

Temperature	25 °C	000	R	Relative Humidity: 55%					
Test Voltage	: AC 12	20V/60HZ							
Ant. Pol.	Horizo	ontal	1000	81	(iii)	1.33			
Test Mode:	TXBI	Mode 2412N	1Hz		10				
Remark:	No rep	oort for the e	mission wh	ich more than	10 dB be	elow the pi	escribed		
	limit.	MARINE		C.			The state of the s		
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector		
1 * 4	823.946	29.66	14.55	44.21	54.00	-9.79	AVG		
2 4	824.018	42.46	14.55	57.01	74.00	-16.99	peak		
Emission Le	vel= Read	Level+ Cor	rect Factor	r					



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Temp	eratu	ıre.	25 °	C	- 111	Relative Hu	ımidity:	55%	
•				120V/60HZ		reductive the	innaity.	0070	
Test \	vona	ge.	AC	1207/6002		- BB			
Ant. F	Pol.		Verti	ical	1	7.6	611		
Test I	Mode	:	TX E	3 Mode 2412	MHz				
Remark: No report for the emission which more than 10 dB below prescribed limit.						elow the			
No.	Mk.	. Fre	eq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		МН	Z	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4822.	698	43.34	14.55	57.89	74.00	-16.11	peak
2	*	4822.	698	29.09	14.55	43.64	54.00	-10.36	AVG
Emiss	sion	Level=	Read	Level+ Cor	rect Factor	r			



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re: 25	5 ℃	0 W	Relative Hur	midity:	55%	
je: A	C 120V/60HZ	33	- OIII			A British
H	orizontal		2.0	Cul	1.30	
: T	X B Mode 2437	MHz		1 60		Contract of
Remark: No report for the emission which more than 10 dB prescribed limit.						5
Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
4873.328	3 41.70	14.86	56.56	74.00	-17.44	peak
4875.086	3 29.13	14.87	44.00	54.00	-10.00	AVG
	Je: Ai H T T N pr Freq. MHz 4873.328	Horizontal TX B Mode 2437 No report for the prescribed limit. Reading Freq. Level MHz dBuV 4873.328 41.70	pe: AC 120V/60HZ Horizontal TX B Mode 2437MHz No report for the emission of prescribed limit. Reading Correct Freq. Level Factor MHz dBuV dB/m 4873.328 41.70 14.86	Horizontal TX B Mode 2437MHz No report for the emission which more the prescribed limit. Reading Correct Measure-Freq. Level Factor ment MHz dBuV dB/m dBuV/m 4873.328 41.70 14.86 56.56	Horizontal TX B Mode 2437MHz No report for the emission which more than 10 dB prescribed limit. Reading Correct Measure-Freq. Level Factor ment Limit MHz dBuV dB/m dBuV/m dBuV/m 4873.328 41.70 14.86 56.56 74.00	Horizontal TX B Mode 2437MHz No report for the emission which more than 10 dB below the prescribed limit. Reading Correct Measure- Freq. Level Factor ment Limit Over MHz dBuV dB/m dBuV/m dBuV/m dB 4873.328 41.70 14.86 56.56 74.00 -17.44



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Temperature:	25 ℃	Relative Hun	nidity: 5	55%	03
Test Voltage:	AC 120V/60HZ	OH)	1)1-1	- N	MAL
Ant. Pol.	Vertical		Turn	133	
Test Mode:	TX B Mode 2437MHz	NO.	1 60		
Remark: No report for the emission which more than 10 dB below the prescribed limit.					
No. Mk. Fre	3	rrect Measure- actor ment	Limit	Over	
MH	lz dBuV di	/m dBuV/m	dBuV/m	dB	Detector
1 * 4873.	976 29.03 14	.86 43.89	54.00	-10.11	AVG
2 4874.	414 42.60 14	.86 57.46	74.00	-16.54	peak
Emission Level=	Read Level+ Correct	actor			



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Temperature:	25 ℃		Relative Hum	nidity:	55%	081		
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ						
Ant. Pol.	Horizontal	100	8:0	GUI	1:32			
Test Mode:	TX B Mode 2462	MHz		1 63				
Remark:	No report for the prescribed limit.	emission w	hich more tha	an 10 dB	below the			
No. Mk. Fro	Reading eq. Level	Correct Factor	Measure- ment	Limit	Over			
MH	łz dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector		
1 4924	450 42.42	15.17	57.59	74.00	-16.41	peak		
2 * 4924	450 29.75	15.17	44.92	54.00	-9.08	AVG		



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Temperature:	25 ℃	Relative Humidity:	55%						
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ							
Ant. Pol.	Vertical	(1)	U.S.						
Test Mode:	TX B Mode 2462MHz								
Remark: No report for the emission which more than 10 dB below the prescribed limit.									
No. Mk. Fre	Reading Corre eq. Level Facto	1 : :4	Over						
МН	z dBuV dB/m	dBuV/m dBuV/r	n dB Detector						
1 4923.0	034 41.65 15.17	56.82 74.00) -17.18 peak						
2 * 4923.0	034 29.39 15.17	44.56 54.00	9.44 AVG						
Emission Level=	Read Level+ Correct Fac	ctor							



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Temperature:	25 ℃	a W	Relative Hun	nidity:	55%	Time.
Test Voltage:	AC 120V/60HZ	13	CIII)			N. P.
Ant. Pol.	Horizontal		33	CIL	1133	
Test Mode:	TX G Mode 2412N	ЛHz		1 60		
Remark: No report for the emission which more than 10 dB below to prescribed limit.						
No. Mk. Fre	3	Correct Factor	Measure- ment	Limit	Over	
MH	z dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1 * 4823.7	700 29.60	14.55	44.15	54.00	-9.85	AVG
2 4823.7	772 42.42	14.55	56.97	74.00	-17.03	peak
Emission Level=	Read Level+ Corre	ect Facto	r			



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						_		
Tempe	rature:	25 ℃			Relative Hur	nidity:	55%	
Test Vo	Itage:	AC 120	V/60HZ	33				
Ant. Po	ıl.	Vertical	1000		20	CIL	1133	
Test Mo	ode:	TXGM	lode 2412	2MHz		I W		
Remark: No report for the emission prescribed limit.					which more th	an 10 dB	below the	
No. I	Иk. Fre		eading Level	Correct Factor	Measure- ment	Limit	Over	
	MH	Z	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	4823.3	364 4	12.68	14.55	57.23	74.00	-16.77	peak
2 *	4823.9	988 2	29.21	14.55	43.76	54.00	-10.24	AVG
Emissi	on Level=	Read Le	vel+ Cor	rect Facto	r			



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Temperat	iire.	25 '	°C		Relative Hun	nidity:	55%	1
•					Ttolative Hall	indity.	0070	
Test Volta	ige:	AC	120V/60HZ		- 1111			
Ant. Pol.		Hori	zontal					
Test Mode	e:	TX	G Mode 2437	7MHz		10		TO THE
Remark: No report for the emission which more than 10 dB below the prescribed limit.								
No. Mk	. Fre	q.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MH	Z	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	4873.	592	41.69	14.86	56.55	74.00	-17.45	peak
2 *	4873.	592	29.05	14.86	43.91	54.00	-10.09	AVG
Emission	Level=	Read	Level+ Cor	rect Facto	r			



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Tempe	rature:	25 ℃			Relative Hum	nidity:	55%	
Test Vo	oltage:	AC 1	20V/60HZ	33				N. Carrie
Ant. Po	ol.	Verti	cal		8.0	(III)	133	
Test Mode: TX G Mode 2437MHz								
Remark: No report for the emission which more than 10 dB below the prescribed limit.								
No.	Mk. I	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	487	73.292	43.10	14.86	57.96	74.00	-16.04	peak
2	* 487	73.292	29.03	14.86	43.89	54.00	-10.11	AVG
Emissi	on Leve	l= Read	Level+ Cori	ect Factor				



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Temperat	ure:	25	$^{\circ}$		Relative Hur	midity:	55%	TOTAL STATE
Test Volta	ge:	AC	120V/60HZ	33	- CALL	الماليا		
Ant. Pol.		Hor	izontal		30	CI	1133	
Test Mode	9 :	TX	TX G Mode 2462MHz					
Remark: No report for the emission which more than 10 dB below the prescribed limit.								
No. Mk	. Fre	q.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MH	Z	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	4924.0)72	40.48	15.17	55.65	74.00	-18.35	peak
2 *	4924.0)72	29.47	15.17	44.64	54.00	-9.36	AVG
Emission	Level=	Read	l Level+ Cor	rect Facto	r			



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Temperature:	25 ℃		Relative Hum	nidity:	55%				
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ							
Ant. Pol.	Vertical			111.3	133				
Test Mode: TX G Mode 2462MHz						M.			
Remark: No report for the emission which more than 10 dB below the prescribed limit.									
No. Mk. Fre	Reading eq. Level	Correct Factor	Measure- ment	Limit	Over				
MH	lz dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector			
1 * 4923.	676 29.45	15.17	44.62	54.00	-9.38	AVG			
2 4925.	242 42.72	15.19	57.91	74.00	-16.09	peak			
Emission Level=	Read Level+ Corr	ect Factor							



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l								
Temperatui	re:	25 °	C	en Y	Relative Hur	nidity:	55%	
Test Voltag	e:	AC	120V/60HZ	33			- 1	A British
Ant. Pol.		Hori	zontal					
Test Mode: TX N(HT20) Mode 2412MHz						TIPE.		
Remark: No report for the emission which more than 10 dB below the prescribed limit.								
No. Mk.	Fred	q .	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	2	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1 4	4824.0	78	42.65	14.55	57.20	74.00	-16.80	peak
2 *	4824.0	78	29.63	14.55	44.18	54.00	-9.82	AVG
Emission L	Emission Level= Read Level+ Correct Factor							



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Temperature:	25 ℃		Relative Hun	nidity:	55%	
Test Voltage:	AC 120V/60HZ	33	- OHI		-	
Ant. Pol.	Vertical		33	671	1,33	
Test Mode:	TX N(HT20) Mod	z	10			
Remark: No report for the emission which more than 10 dB below the prescribed limit.						
No. Mk. Fre	Reading q. Level	Correct Factor	Measure- ment	Limit	Over	
MH	z dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1 4822.9	944 41.56	14.55	56.11	74.00	-17.89	peak
2 * 4822.9	944 29.05	14.55	43.60	54.00	-10.40	AVG
Emission Level=	Read Level+ Cor	rect Facto	r			



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Temperature:	25 ℃	2 //	Relative Hum	idity:	55%	Tim.	
Test Voltage:	AC 120V/60HZ	13	- CIII		-01	1	
Ant. Pol.	Horizontal		18	(m)	1133		
Test Mode: TX N(HT20) Mode 2437MHz							
Remark: No report for the emission which more than 10 dB below							
	prescribed limit.		C.			m	
No. Mk. Fre	Reading eq. Level	Correct Factor	Measure- ment	Limit	Over		
MH	Iz dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	
1 4873.	610 43.11	14.86	57.97	74.00	-16.03	peak	
2 * 4874.	192 29.08	14.86	43.94	54.00	-10.06	AVG	
Emission Level=	Emission Level= Read Level+ Correct Factor						



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				_			
Temperature:	25 ℃		Relative Hum	nidity:	55%		
Test Voltage:	AC 120V/60HZ				- 1	The same	
Ant. Pol. Vertical							
Test Mode:	TX N(HT20) Mod	de 2437MH:	Z	100	- A	187	
Remark: No report for the emission which more than 10 dB belo					pelow the	Liber .	
	prescribed limit.		C.				
No. Mk. Fre	Reading eq. Level	Correct Factor	Measure- ment	Limit	Over		
MI	Hz dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	
1 4875.	.002 41.04	14.86	55.90	74.00	-18.10	peak	
2 * 4875.	.002 29.14	14.86	44.00	54.00	-10.00	AVG	
Emission Level=	Emission Level= Read Level+ Correct Factor						



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Temp	eratı	ıre:	25 '	°C		Relative Hu	umidity:	55%	Tim-
Test \	/olta	ge:	AC	120V/60HZ	AD T	- OIL		- N	The same
Ant. F	Pol.		Hori	zontal		2.0	Tim	1133	
Test Mode: TX N(HT20) Mode 2462MHz									
Remark: No report for the emission which more than 10 dB below the prescribed limit.									
No.	Mk	. Fre	q.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MH	Z	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4924.3	390	43.28	15.17	58.45	74.00	-15.55	peak
2	*	4924.3	390	29.40	15.17	44.57	54.00	-9.43	AVG
Emiss	sion	Level=	Read	Level+ Cor	rect Facto	r			



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Temperature:	25 ℃		Relative Hu	umidity:	55%	
Test Voltage:	AC 120V/60HZ	30	- OIII			
Ant. Pol.	Vertical		318	(iii)	133	
Test Mode: TX N(HT20) Mode 2462MHz						
Remark: No report for the emission which more than 10 dB below the prescribed limit.						
No. Mk. Fre	Reading q. Level	Correct Factor	Measure- ment	Limit	Over	
MH	z dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1 4923.0	004 43.23	15.17	58.40	74.00	-15.60	peak
2 * 4923.0	004 29.35	15.17	44.52	54.00	-9.48	AVG
Emission Level=	Read Level+ Cor	rect Facto	r			



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	00								
Temperature:	25 ℃		Relative Hun	nidity:	55%				
Test Voltage:	AC 120V/60HZ				- 1	The same			
Ant. Pol. Horizontal									
Test Mode: TX N(HT40) Mode 2422MHz						THE STATE OF THE S			
Remark: No report for the emission which more than 10 dB below the prescribed limit.									
No. Mk. Fre	Reading q. Level	Correct Factor	Measure- ment	Limit	Over				
MH	z dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector			
1 * 4842.6	644 29.22	14.66	43.88	54.00	-10.12	AVG			
2 4843.	160 42.20	14.67	56.87	74.00	-17.13	peak			
Emission Level=	Emission Level= Read Level+ Correct Factor								



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Temperature:	25 ℃		Relative Hun	nidity:	55%	Time.	
Test Voltage:	AC 120V/60HZ	33	- CHI		- 1	N. P.	
Ant. Pol.	Vertical	1	811	(III)	1.33		
Test Mode:	10	A					
Remark: No report for the emission which more than 10 dB below the prescribed limit.							
No. Mk. Fre	Reading eq. Level	Correct Factor	Measure- ment	Limit	Over		
MH	lz dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	
1 4844.	588 41.29	14.68	55.97	74.00	-18.03	peak	
2 * 4844.	588 29.21	14.68	43.89	54.00	-10.11	AVG	
Emission Level=	Emission Level= Read Level+ Correct Factor						



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Temperature:	25 ℃	Relativ	e Humidity:	55%	Time.			
Test Voltage:	AC 120V/60HZ	3 _ (Million					
Ant. Pol. Horizontal								
Test Mode:								
Remark:	No report for the emission which more than 10 dB below the prescribed limit.							
No. Mk. Fre	3	Correct Meas Factor mer	Limit	Over				
MH	lz dBuV	dB/m dBu\	//m dBuV/m	n dB	Detector			
1 4874.	696 42.77	14.86 57.6	63 74.00	-16.37	peak			
2 * 4874.	696 29.07	14.86 43.9	93 54.00	-10.07	AVG			
Emission Level=	Emission Level= Read Level+ Correct Factor							



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Temperature:		25 °C Relative Humidity:			midity:	55%			
Test Voltage:			AC	120V/60HZ					
Ant. Pol.			Vert	ical		20	(A)	1:33	
Test Mode:			1XT	N(HT40) Mod	de 2437MH	lz	J W		
Remark:				report for the scribed limit.	emission v	which more th	an 10 dB	below the	
No.	Mk	. Fre	q.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MH	Z	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.8	362	42.97	14.86	57.83	74.00	-16.17	peak
2	*	4873.8	362	28.99	14.86	43.85	54.00	-10.15	AVG
Emis	Emission Level= Read Level+ Correct Factor								



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Temperature:		25 ℃ Relative Humidity:				55%	TOTAL STATE				
Test Voltage:			AC 1	120V/60HZ	N	- CHI		- N	The same		
Ant. Pol.			Hori	Horizontal							
Test N	/lode:		1XT	N(HT40) Mod	de 2452MH	Z	60				
Remark:				eport for the cribed limit.	emission w	hich more tha	an 10 dB b	pelow the			
No.	Mk.	Fre	q.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MH	Z	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector		
1	1 4905.0		062	42.24	15.05	57.29	74.00	-16.71	peak		
2	*	4905.	062	29.40	15.05	44.45	54.00	-9.55	AVG		
Emiss	Emission Level= Read Level+ Correct Factor										



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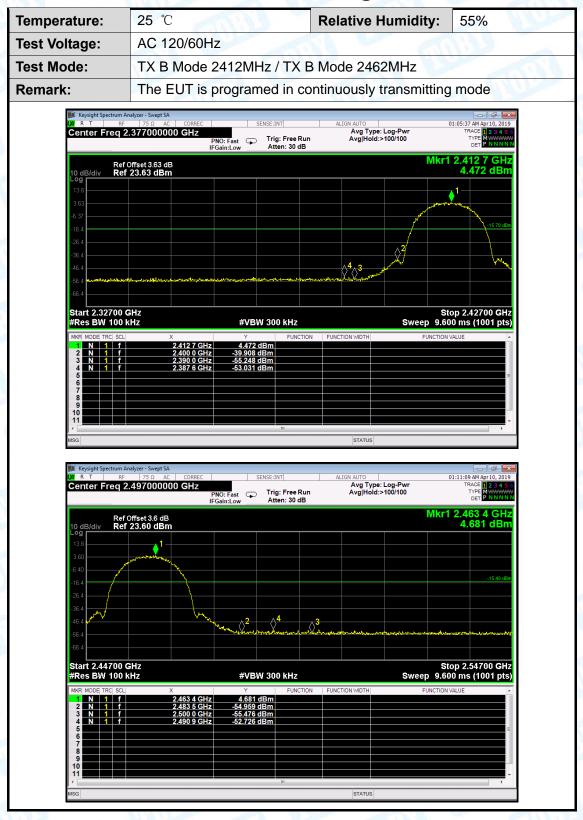
Tomporeture	25 ℃	Bolotivo Uu	miditu	55%		
Temperature:	25 C		Relative Hu	midity:	55%	
Test Voltage:	AC 120V/60HZ	10				A STATE OF
Ant. Pol.	Vertical	1		1100	133	
Test Mode:	TX N(HT40) Mod	de 2452MH	z	10	A	
Remark:	No report for the	emission w	hich more that	an 10 dB b	pelow the	La Control
	prescribed limit.		1			
	Reading	Correct	Measure-			
No. Mk. Fre	eq. Level	Factor	ment	Limit	Over	
MH	łz dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1 4903.	316 40.90	15.04	55.94	74.00	-18.06	peak
2 * 4903.	316 29.40	15.04	44.44	54.00	-9.56	AVG
Emission Level= Read Level+ Correct Factor						





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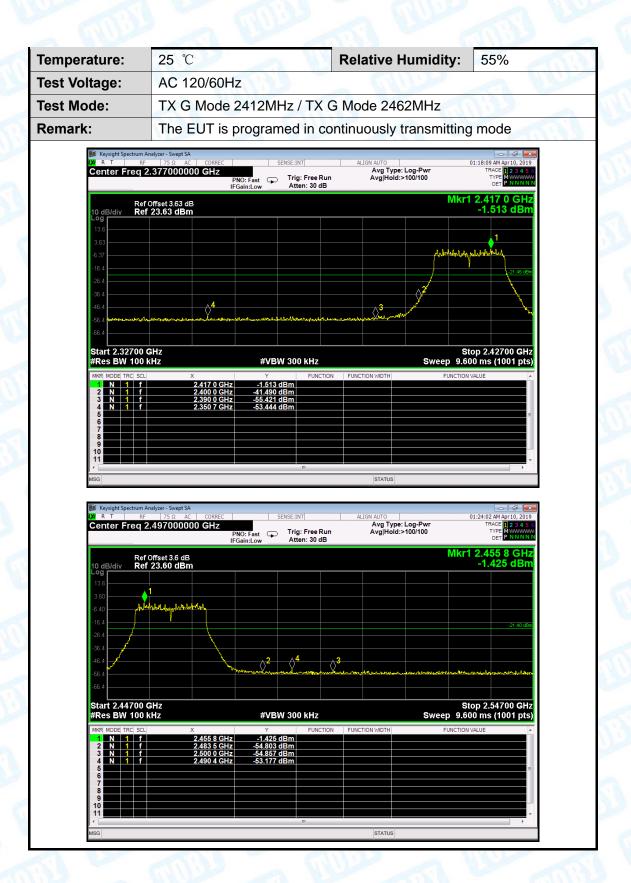
Attachment C-- Conducted Band Edge Test







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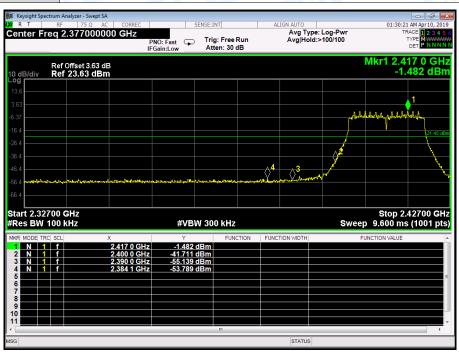


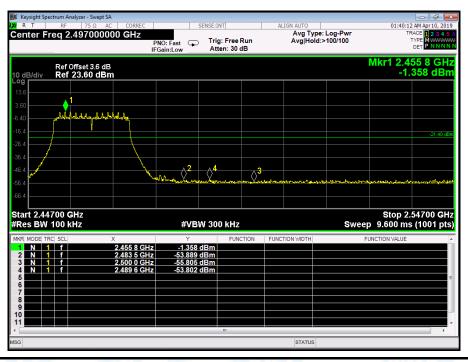
Temperature: 25 °C Relative Humidity: 55%

Test Voltage: AC 120/60Hz

Test Mode: TX N(HT20) Mode 2412MHz / TX N(HT20) Mode 2462MHz

Remark: The EUT is programed in continuously transmitting mode

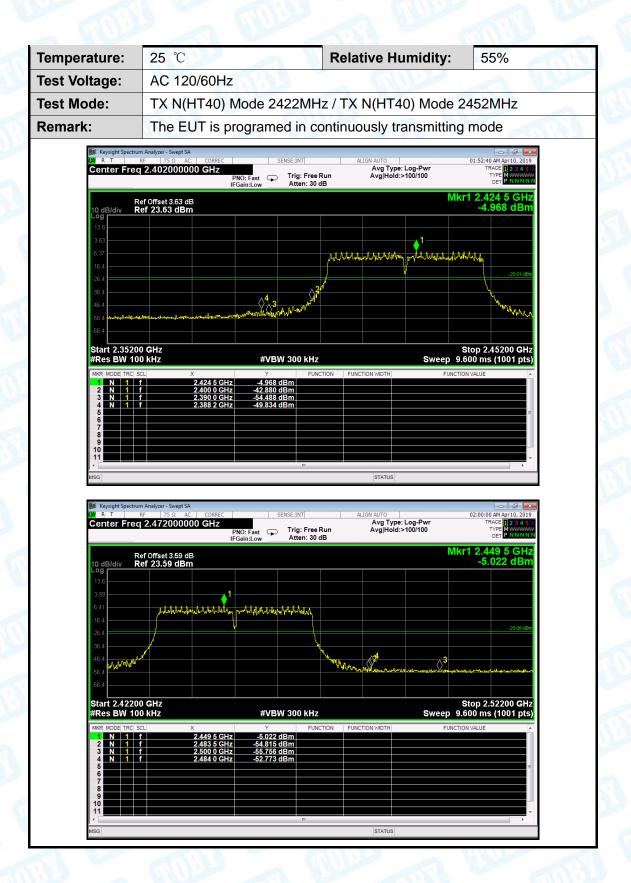








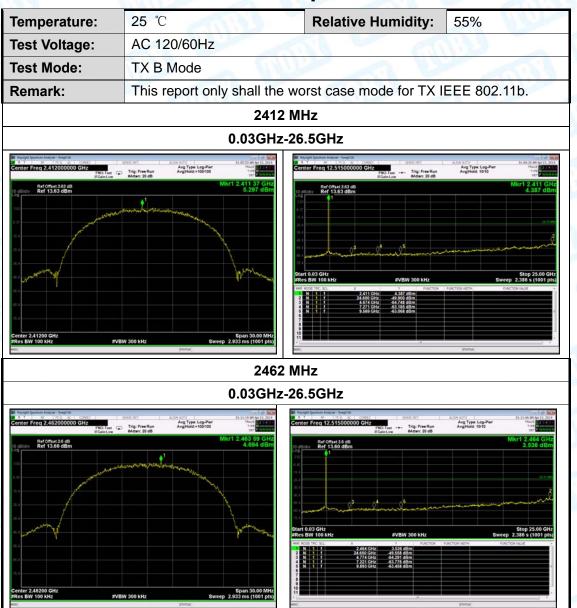
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Attachment D-- Conducted RF Spurious Emission Test Data



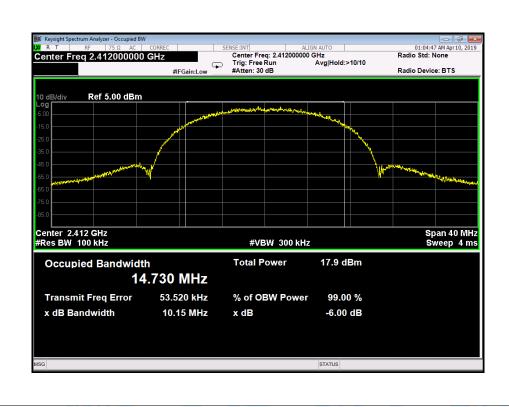


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Attachment E-- Bandwidth Test Data

Temperature:	25 °C	Relative Humidity:	55%			
Test Voltage: AC 120/60Hz						
Test Mode:	TX 802.11B Mode					
Channel frequence	y 6dB Bandwidth	99% Bandwidth	Limit			
(MHz)	(MHz)	(MHz)	(MHz)			
2412	10.15	14.730				
2437	10.42	14.869	>=0.5			
2462	10.42	14.872				

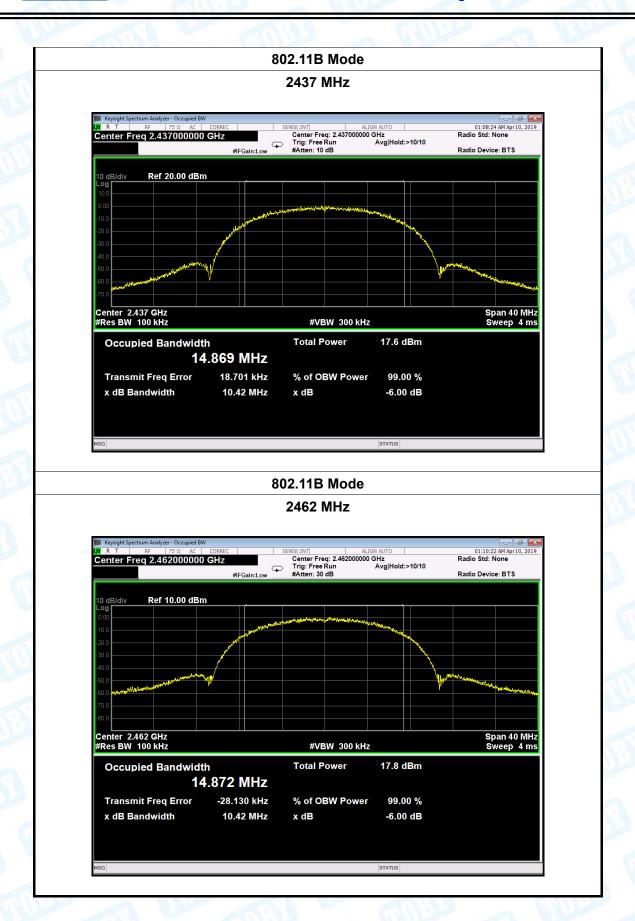
802.11B Mode







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Transmit Freq Error

x dB Bandwidth

11.480 kHz

16.41 MHz

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nperature: 25 °C			Relative Humidity:	55%
t Voltage:	AC 12	20/60Hz	WILL DES	A W
t Mode:	TX 80	2.11G Mode	TI 610	1139
annel frequen	су	6dB Bandwidth	99% Bandwidth	Limit
(MHz)		(MHz)	(MHz)	(MHz)
2412		16.41	16.390	
2437		16.43	16.413	>=0.5
2462		16.41	16.373	
		202 442	BA	
III Keysight Spectrum <i>I</i> RF	75 Ω AC	CORREC SENSE:INT	ALIGN AUTO	01:16:26 AM Apr10, 2019
	75 Ω AC	2412 N BW CORREC SENSE:INT	ALIGN AUTO q: 2.412000000 GHz Radic Run Avg Hold:>10/10	
Center Freq 2	75 Ω AC	2412 N SENSE:INT O GHz #IFGain:Low Atten: 30	ALIGN AUTO q: 2.412000000 GHz Radic Run Avg Hold:>10/10 Radic	01:16:26 AM Apr10, 2019 • Std: None
Center Freq 2	75 Ω AC 2.41200000	BW CORREC SENSE:INT Center Fre Trig: Free I #Atten: 30	ALIGN AUTO q: 2.412000000 GHz Radic Run Avg Hold:>10/10	01:16:26 AM Apr10, 2019 • Std: None
Center Freq 2 10 dB/div F Log -5.00 -15.0 -25.0 -45.0	75Ω AC 2.41200000 Ref 5.00 dBn	2412 N SENSE:INT O GHz #IFGain:Low Atten: 30	ALIGN AUTO q: 2.412000000 GHz Radic Avg Hold:>10/10 Radic	01:16:26 AM Apr 10, 2019 Std: None Device: BTS
Center Freq 2 10 dB/div F Log -5.00 -15.00 -25.00 -45.00	75Ω AC 2.41200000 Ref 5.00 dBn	2412 N SENSE:INT O GHz #IFGain:Low Atten: 30	ALIGN AUTO q: 2.412000000 GHz Radic Avg Hold:>10/10 Radic	01:16:26 AM Apr10, 2019 • Std: None

% of OBW Power

x dB

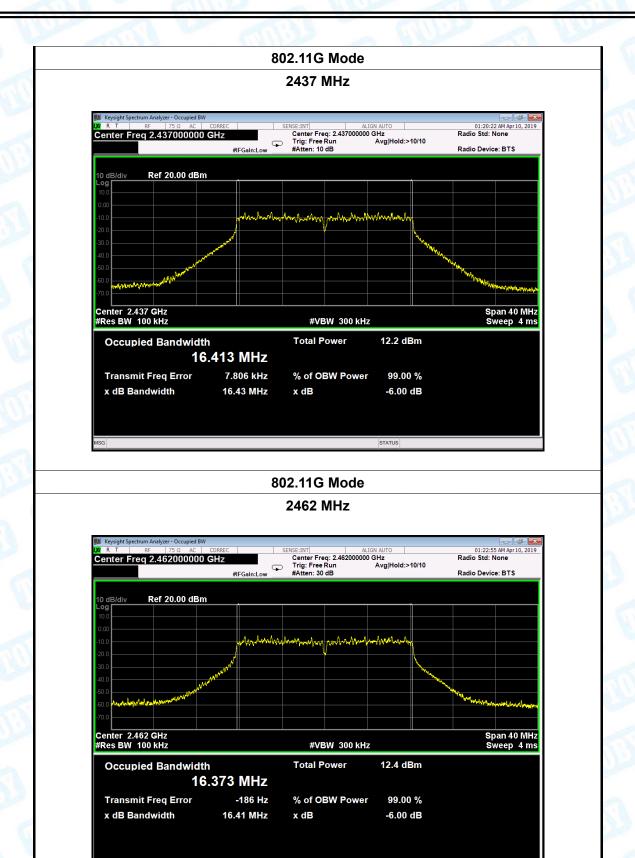
99.00 %

-6.00 dB





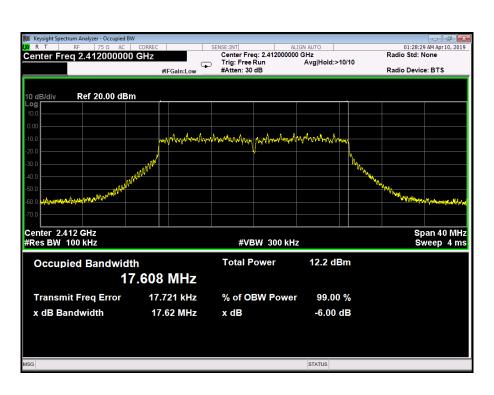
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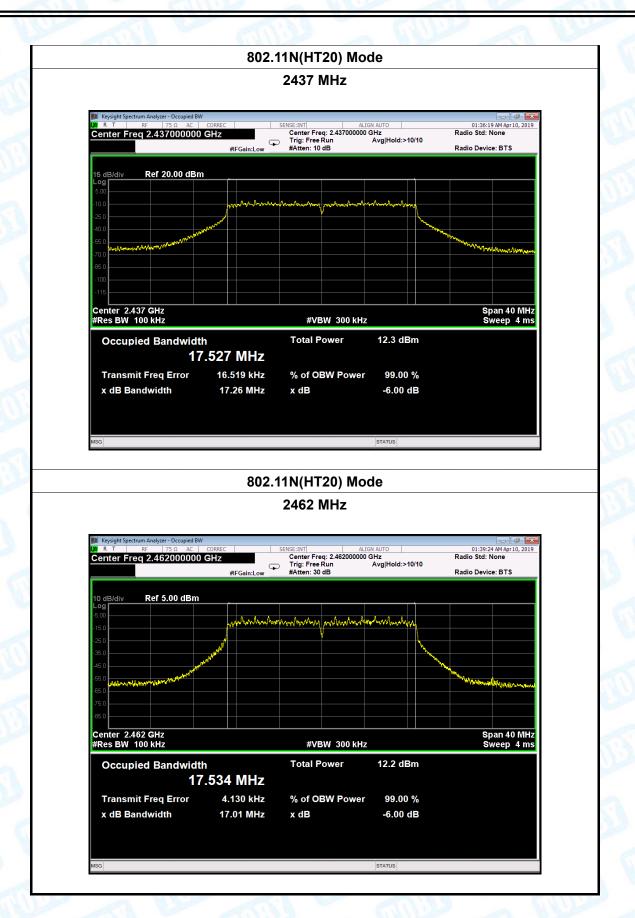
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120/60Hz					
Test Mode:	Test Mode: TX 802.11N(HT20) Mode					
Channel frequence	cy 6dB Bandwidth	99% Bandwidth	Limit			
(MHz)	(MHz)	(MHz)	(MHz)			
2412	17.62	17.608				
2437	17.26	17.527	>=0.5			
2462	17.01	17.534				
802.11N(HT20) Mode						
2412 MHz						





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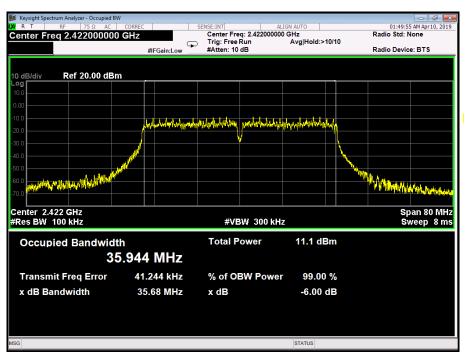






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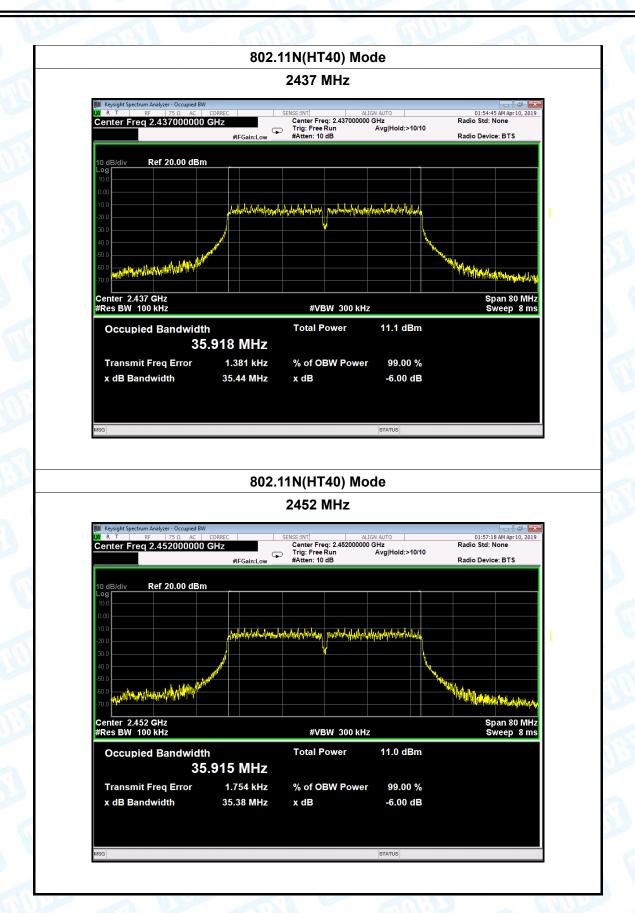
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120/60Hz					
Test Mode: TX 802.11N(HT40) Mode						
Channel frequenc	y 6dB Bandwidth	99% Bandwidth	Limit			
(MHz)	(MHz)	(MHz)	(MHz)			
2422	35.68	35.944				
2437	35.44	35.918	>=0.5			
2452	35.38	35.915				
	802.11N(HT	40) Mode	1			







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Attachment F-- Peak Output Power Test Data

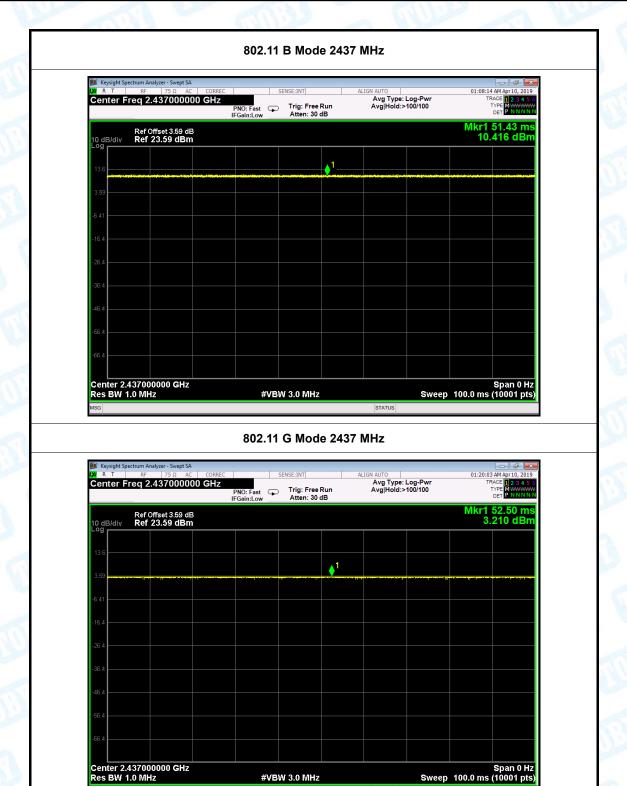
Test Conditions	: Continuous transm	itting Mode				
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120/60Hz	MILL OF THE				
Mode	Channel frequency (MHz)	Test Result (dBm)	Limit (dBm)			
	2412	17.54				
802.11b	2437	17.60				
	2462	17.60				
	2412	15.29				
802.11g	2437	15.22				
	2462	15.13	30			
802.11n	2412	15.05	30			
802.11h (HT20)	2437	15.27				
(11120)	2462	14.86				
902 44n	2422	14.15				
802.11n (HT40)	2437	14.15				
(111-40)	2452	13.71				
Result: PASS						

Duty Cycle						
Mode	Channel frequency (MHz)	Test Result				
	2412					
802.11b	2437					
	2462					
	2412					
802.11g	2437					
	2462	\000 /				
000 44	2412	>98%				
802.11n	2437					
(HT20)	2462					
000 44	2422					
802.11n (HT40)	2437					
(m140)	2452					
Please see below plots						



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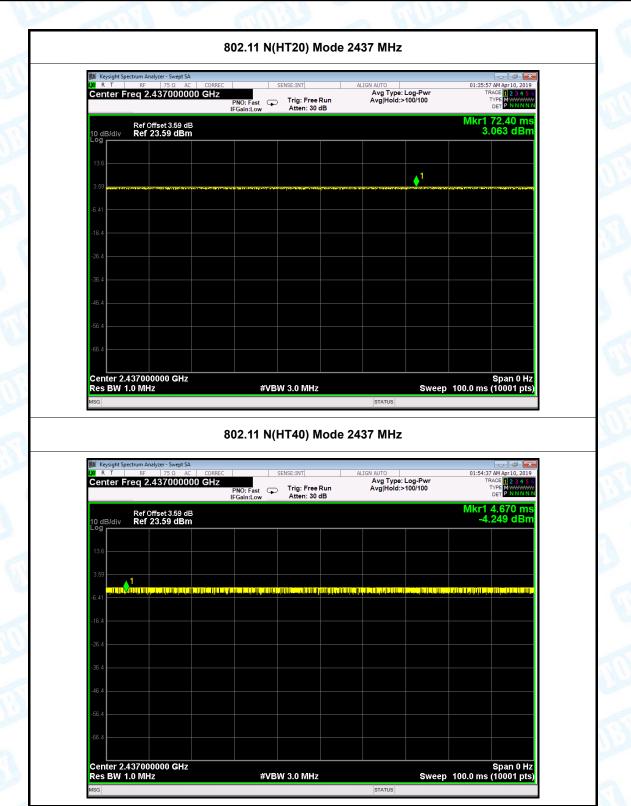






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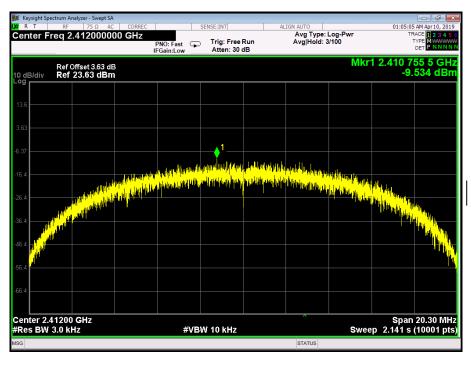


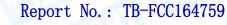
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Attachment G-- Power Spectral Density Test Data

Temperature:	25 ℃		Relative Humidity:	55%		
Test Voltage:	AC 120/6	0Hz				
Test Mode:	TX 802.11	1B Mode				
Channel Frequency	uency	Power D	ensity	Limit		
(MHz)		(dBm/3	kHz)	(dBm)		
2412		-9.53	-9.534			
2437		-9.828 8		8		
2462		-10.449				
000 447 11						

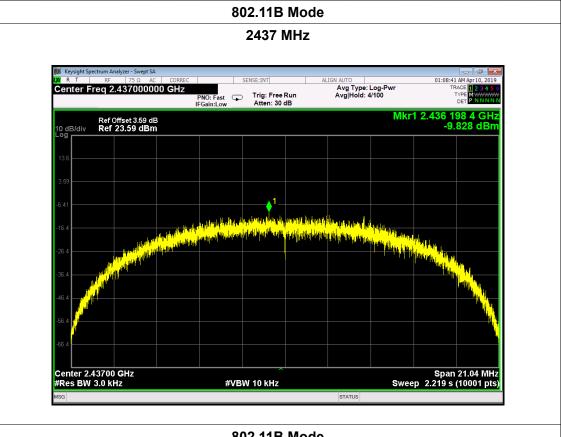
802.11B Mode



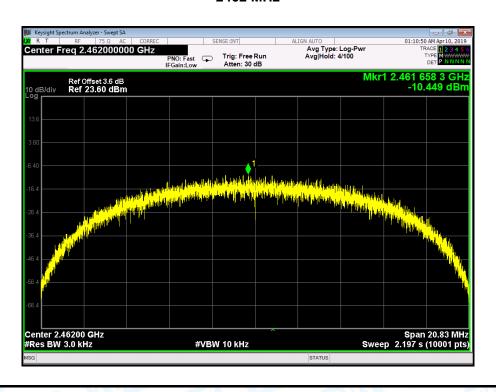


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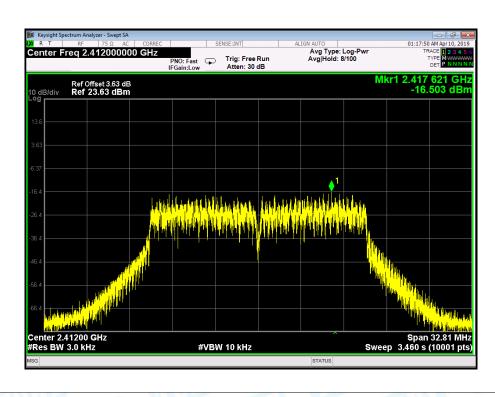
802.11B Mode





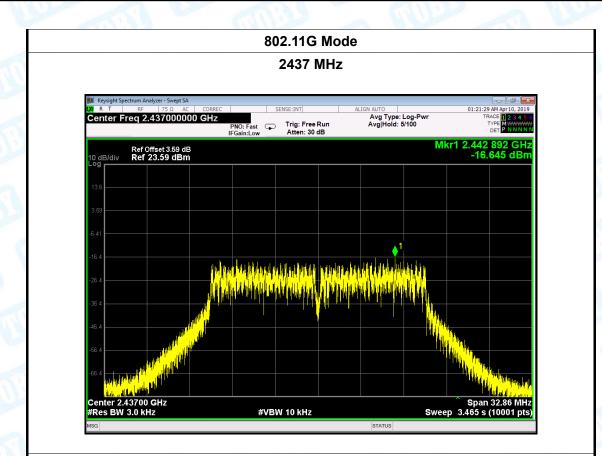
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Temperature:	25 ℃		Temperature:	25 ℃	
Test Voltage: AC 120/60Hz					
Test Mode:	TX 802.1	IG Mode		M:33	
Channel Freq	Channel Frequency		sity	Limit	
(MHz)		(dBm/3 kH	z)	(dBm)	
2412		-16.503			
2437		-16.645		8	
2462		-16.535			
802 11G Mode					

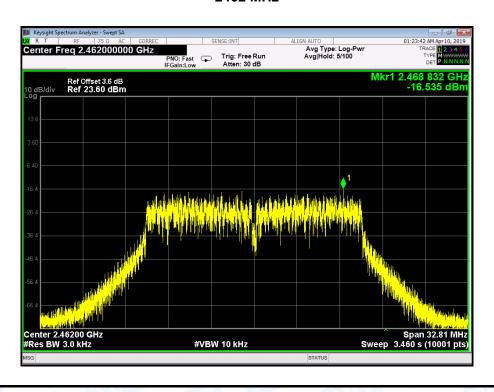




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802.11G Mode

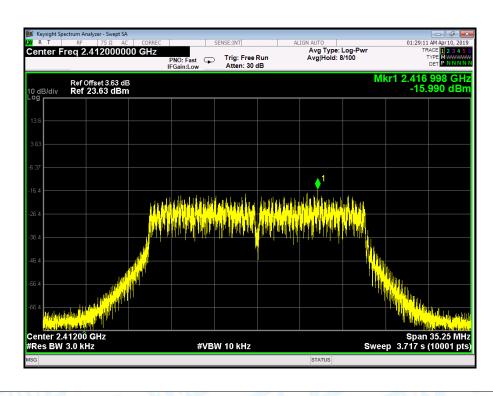




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Temperature: 25 °C			Temperature:	25 ℃			
Test Voltage:	AC 120/6	AC 120/60Hz					
Test Mode: TX 802.11N(HT20) Mode							
Channel Freq	Channel Frequency		Power Density				
(MHz)		(dBm/3 kHz)		(dBm)			
2412	2412		0				
2437		-16.80	0	8			
2462		-17.17	2				
		902 44N/UT2	n) Modo				

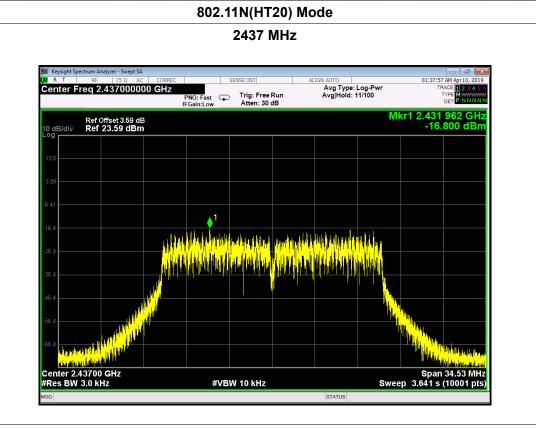
802.11N(HT20) Mode



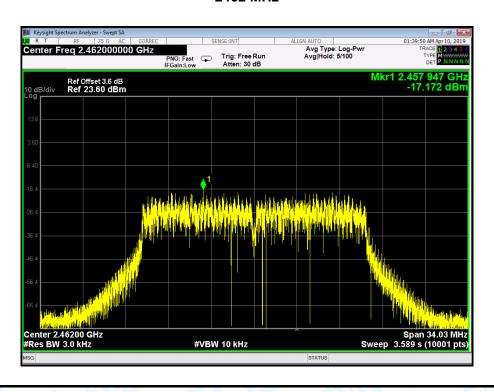


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802.11N(HT20) Mode

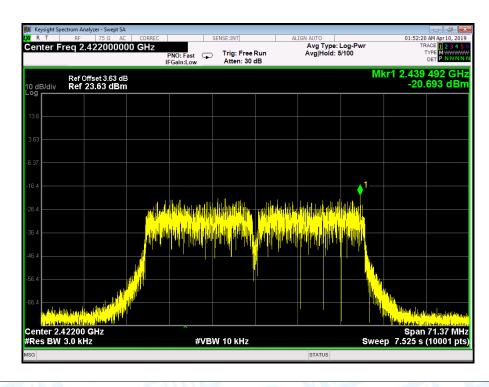




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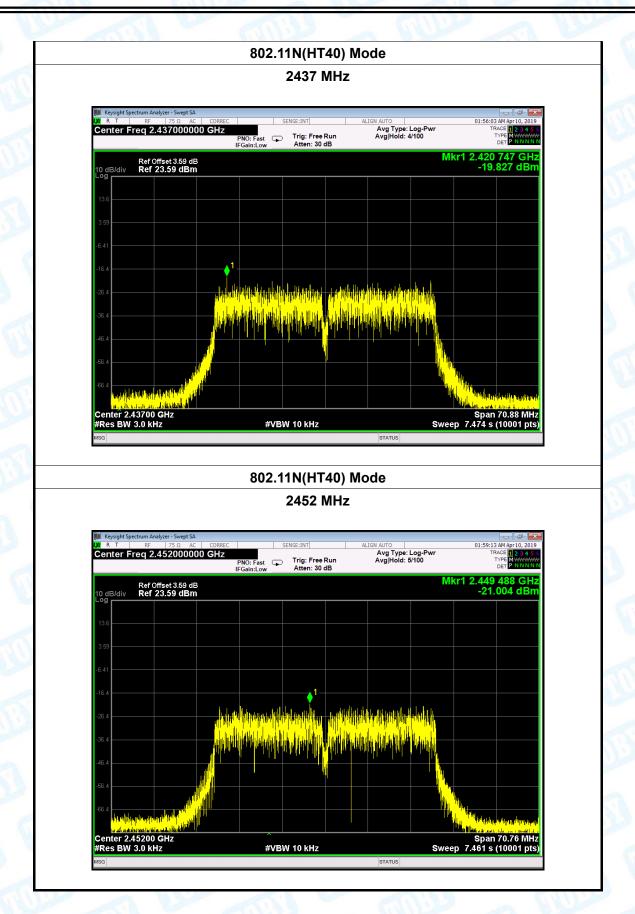
Temperature:	25 ℃		Temperature:	25 ℃	
Test Voltage:	AC 120/60Hz				
Test Mode:	TX 802.11N(HT40) Mode				
Channel Frequency		Power Density		Limit	
(MHz)		(dBm/3 kH	(dBm)		
2422		-20.693			
2437		-19.827		8	
2452		-21.004			
802 11N(HT40) Mode					

802.11N(HT40) Mode





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