

Shenzhen Toby Technology Co., Ltd.

Report No.: TB-FCC166244

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FCC Radio Test Report FCC ID: 2AKBP-X13

Original Grant

Report No. TB-FCC166244

Shenzhen Hysiry Technology Co., Ltd. **Applicant**

Equipment Under Test (EUT)

EUT Name Outdoor Smart Plug

Model No. X13

Series Model No. N/A

HUSIRU **Brand Name**

2019-05-22 **Receipt Date**

2019-05-23 to 2019-06-13 **Test Date**

2019-06-14 **Issue Date**

Standards FCC Part 15, Subpart C (15.247: 2018)

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

Test/Witness Engineer :

WAN SU foy Lai. 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-FCC166244	Rev.01	Initial issue of report	2019-06-14
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1. General Information about EUT

1.1 Client Information

Applicant		Shenzhen Hysiry Technology Co., Ltd.		
Address	2	2403d, 24th floor, coast huanqing building, no.24 futian road, xu town community, futian street, futian district, shenzhen		
Manufacturer		Shenzhen Hysiry Technology Co., Ltd.		
Address	:	2403d, 24th floor, coast huanqing building, no.24 futian road, xu town community, futian street, futian district, shenzhen		

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	Outdoor Smart Plug			
Models No.		X13			
Model Different		N/A			
CALL		Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz		
		Number of Channel:	802.11b/g/n(HT20):11 channels see note(3)		
		RF Output Power:	802.11b: 6.60dBm 802.11g: 4.26dBm 802.11n (HT20): 4.07dBm		
Product		Antenna Gain:	1.7dBi PCB Antenna		
Description		Modulation Type:	802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n: OFDM(BPSK,QPSK,16QAM, 64QAM)		
1003		Bit Rate of Transmitter:	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	:	AC Voltage supplied			
Power Rating	ė	Input: AC 100-240V 50/60Hz 15A MAX Output: AC 100-240V 50/60Hz 15A MAX			
Software Version		N/A			
Hardware Version		N/A			
Connecting I/O Port(S)		Please refer to the User's Manual			

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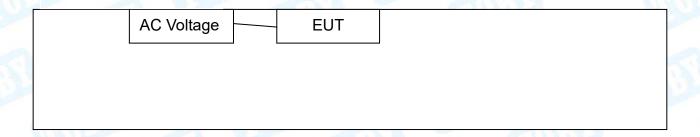
(2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

(3) Channel List:

(-)					The state of the s		
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)							

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

1.3 Block Diagram Showing the Configuration of System Tested



1.4 Description of Support Units

The EUT has been tested as an independent unit.

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	Normal Working with TX B Mode			



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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				

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)

- (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	W.	SecureCRT.exe	(3)
Channel	CH 01	CH 06	CH 11
IEEE 802.11b DSSS	80	80	80
IEEE 802.11g OFDM	90	95	95
IEEE 802.11n (HT20)	90	95	95

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
Dadiated Emission	Level Accuracy:	14 CO dD
Radiated Emission	9kHz to 30 MHz	±4.60 dB
Dadiated Emission	Level Accuracy:	14 40 dD
Radiated Emission	30MHz to 1000 MHz	±4.40 dB
Padiated Emission	Level Accuracy:	14 20 dB
Radiated Emission	Above 1000MHz	±4.20 dB



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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-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 2	
Standa	rd Section	Test Item	ludament	Remark
FCC	IC	rest 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	RSU-A4	34403	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	Mar.04, 2019	Mar. 03, 2020
Pre-amplifier	Sonoma	310N	185903	Mar.03, 2019	Mar. 02, 2020
Pre-amplifier	HP	8449B	3008A00849	Mar.03, 2019	Mar. 02, 2020
Cable	HUBER+SUHNER	100	SUCOFLEX	Jan. 27, 2019	Jan. 26, 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
DE Dawes Co	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

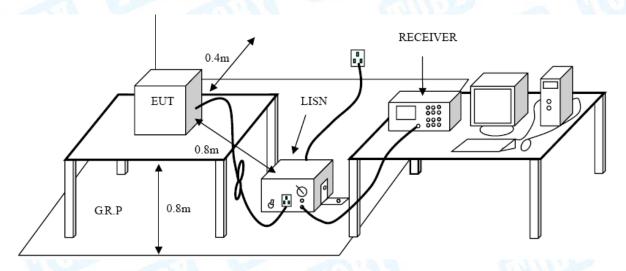
Conducted Emission Test Limit

Eregueney	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

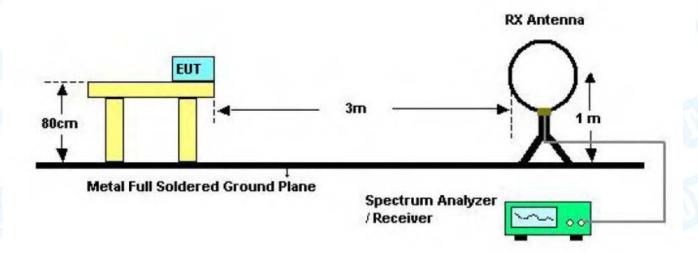
Note:

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

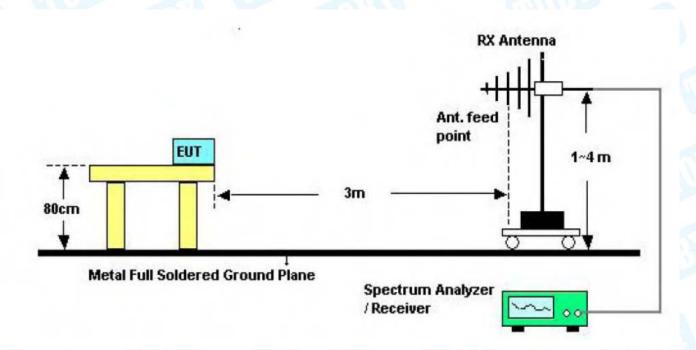


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5.2 Test Setup



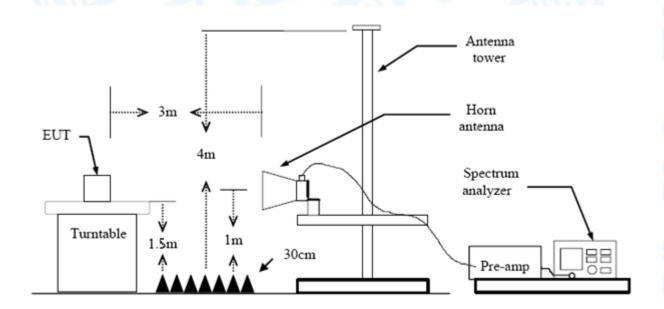
Below 30MHz Test Setup



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) Measurements at frequency Below 1GHz. The EUT was placed on a rotating 0.8m 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.
- (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.



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(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.

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 Requirement

6.1 Test Standard and Limit

6.1.1 Test Standard

FCC Part 15.247(d)

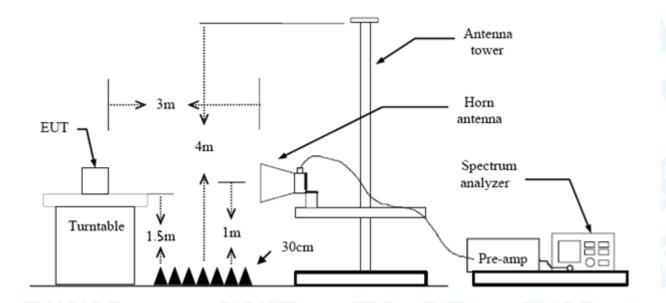
FCC Part 15.209

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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7. Bandwidth Test

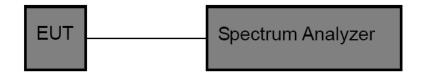
7.1 Test Standard and Limit

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

7.1.2 Test Limit

FCC Part 15 Subpart C(15.247)						
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

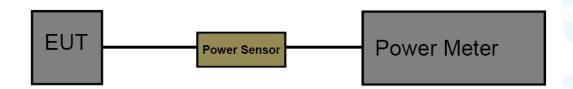
8.1 Test Standard and Limit

8.1.1 Test Standard FCC Part 15.247 (b)

8.1.2 Test Limit

FCC Part 15 Subpart C(15.247)						
Test Item	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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9. Power Spectral Density Test

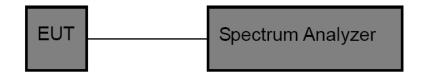
9.1 Test Standard and Limit

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 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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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.

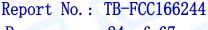
10.2 Antenna Connected Construction

The gains of the antenna used for transmitting is 2.5dBi, 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 PCB Antenna. It complies with the standard requirement.

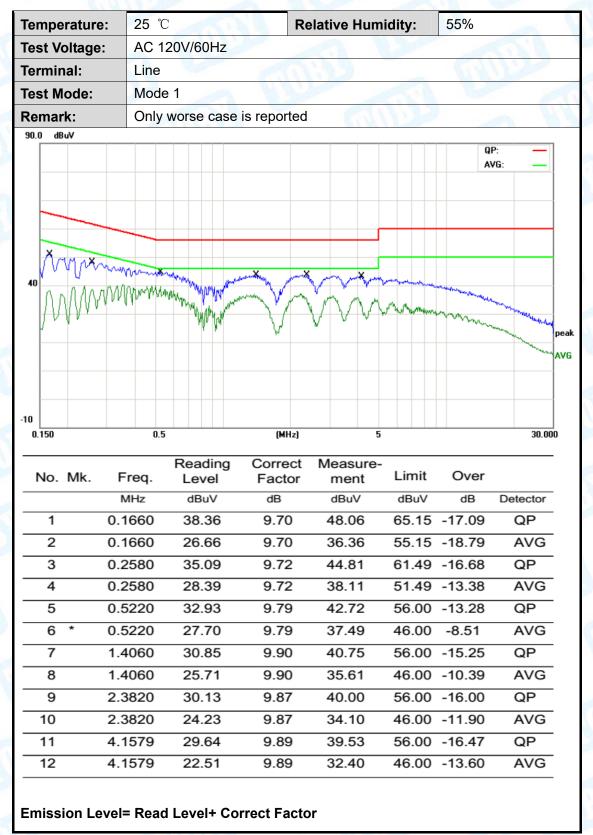
Antenna Type			
	⊠Permanent attached antenna		
	☐Unique connector antenna		
4000	☐Professional installation antenna		





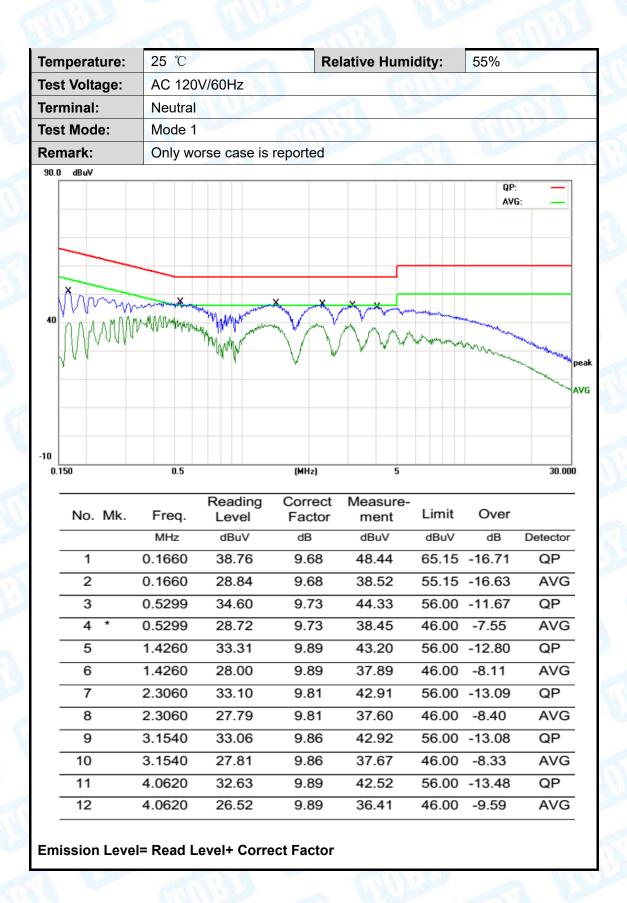
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Attachment A-- Conducted Emission Test Data





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Attachment B-- Radiated Emission Test Data

9KHz~30MHz

From 9KHz to 30MHz: Conclusion: PASS

Emission Level= Read Level+ Correct Factor

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

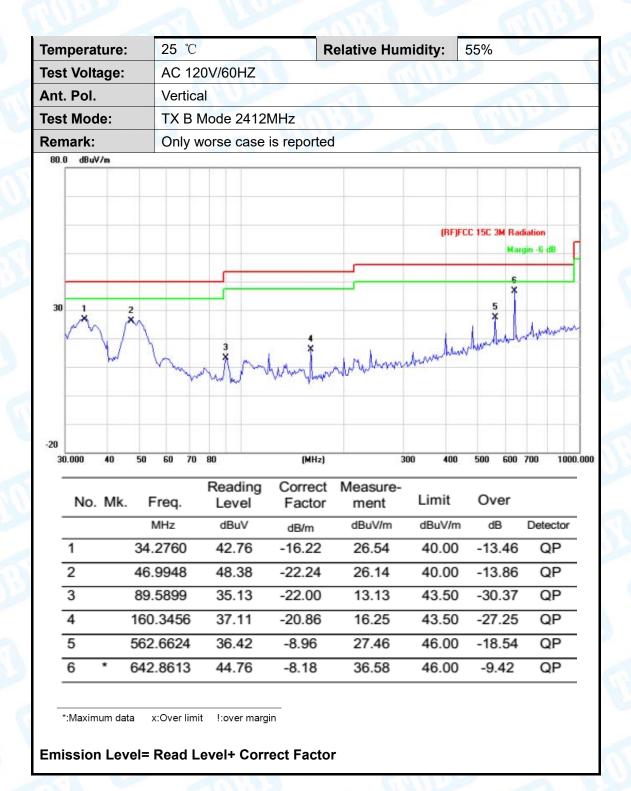
below the permissible value has no need to be reported.

30MHz~1GHz

Temperature:	25 ℃	1010		Relative Hu	ımidity:	55%	N.
Test Voltage:	AC 120V	7/60HZ		1	65		
Ant. Pol.	Horizonta	al	Miller		1 1		
Test Mode:	TX B Mo	de 2412MH	Hz	ATT IN	3		11/1/
Remark:	Only wor	se case is	reported	MARTIN			Carlos .
80.0 dBuV/m							
30					(RF)FCC	: 15C 3M Radiation Margin -6	
1 2 2 x	Luman	merenne	w.K.	indulul	manned	Whalle	mml
-20	0 60 70 8	mann m	(MHz)	300	400	500 600 700	1000.00
-20		Reading Level	n.M.		400 Limit	500 600 700 Over	1000.00
-20 30.000 40 50		Reading	(MHz)	300 Measure-		Over	1000.00
-20 30.000 40 50 No. Mk.	Freq.	Reading Level	(MHz) Correct Factor	Measure- ment	Limit	Over	
No. Mk.	Freq.	Reading Level dBuV	(MHz) Correct Factor dB/m	Measure- ment	Limit dBuV/m	Over	etector
No. Mk.	Freq. MHz	Reading Level dBuV 33.30	(MHz) Correct Factor dB/m -16.57	Measure- ment dBuV/m 16.73	Limit dBuV/m 40.00	Over dB 0	etector QP
No. Mk. 1 3 2 4 3 16	Freq. MHz 4.7602	Reading Level dBuV 33.30 35.89	(MHz) Correct Factor dB/m -16.57 -22.35	Measure- ment dBuV/m 16.73 13.54	Limit dBuV/m 40.00 40.00	Over dB D -23.27 -26.46	QP QP
No. Mk. 1 3 2 4 3 16 4 28	Freq. MHz 34.7602 37.3255 60.3456	Reading Level dBuV 33.30 35.89 34.72 46.15	(MHz) Correct Factor dB/m -16.57 -22.35 -20.86 -16.57	Measure- ment dBuV/m 16.73 13.54 13.86 29.58	Limit dBuV/m 40.00 40.00 43.50	Over dB D -23.27 -26.46 -29.64	QP QP QP



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Above 1GHz

Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz	7:30	DAIL .
Remark:	No report for the emission	which more than 10 de	B below the prescribed
	limit.		A HI

No.	Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4824.210	28.77	14.55	43.32	54.00	-10.68	AVG
2		4824.558	42.40	14.55	56.95	74.00	-17.05	peak

Emission Level= Read Level+ Correct Factor

25 ℃	Relative Humidity:	55%		
AC 120V/60HZ				
Vertical				
TX B Mode 2412MHz	TX B Mode 2412MHz			
No report for the emission which more than 10 dB below the				
prescribed limit.				
	AC 120V/60HZ Vertical TX B Mode 2412MHz No report for the emission v	AC 120V/60HZ Vertical TX B Mode 2412MHz No report for the emission which more than 10 dB		

No	o. Mi	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4824.084	28.79	14.55	43.34	54.00	-10.66	AVG
2		4824.960	42.88	14.55	57.43	74.00	-16.57	peak



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Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60HZ					
Ant. Pol.	Horizontal					
Test Mode:	TX B Mode 2437MHz					
Remark:	No report for the emission which more than 10 dB below the					
	prescribed limit.		- 44			

No	o. M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4874.426	28.94	14.86	43.80	54.00	-10.20	AVG
2		4875.362	42.92	14.87	57.79	74.00	-16.21	peak

Emission Level= Read Level+ Correct Factor

Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ					
Ant. Pol.	Vertical						
Test Mode:	TX B Mode 2437MHz		500				
Remark:	No report for the emission which more than 10 dB below the						
	prescribed limit.						

-	No. Mi	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.454	42.60	14.86	57.46	74.00	-16.54	peak
2	*	4875.044	28.90	14.87	43.77	54.00	-10.23	AVG



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Temperature:	25 ℃	Relative Humidity:	55%					
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ						
Ant. Pol.	Horizontal							
Test Mode:	TX B Mode 2462MHz	11:30	MAD.					
Remark:	rk: No report for the emission which more than 10 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		4923.892	46.57	15.17	61.74	74.00	-12.26	peak
2	*	4924.012	34.59	15.17	49.76	54.00	-4.24	AVG

Emission Level= Read Level+ Correct Factor

Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ					
Ant. Pol.	Vertical						
Test Mode:	TX B Mode 2462MHz		500				
Remark:	No report for the emission which more than 10 dB below the						
	prescribed limit.						

N	o. Mi	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4923.988	34.11	15.17	49.28	54.00	-4.72	AVG
2		4924.282	46.45	15.17	61.62	74.00	-12.38	peak



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Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60HZ						
Ant. Pol.	Horizontal						
Test Mode:	TX G Mode 2412MHz		WHO.				
Remark: No report for the emission which more than 10 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	*	4824.564	28.83	14.55	43.38	54.00	-10.62	AVG
2		4825.290	42.91	14.56	57.47	74.00	-16.53	peak

Emission Level= Read Level+ Correct Factor

Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ					
Ant. Pol.	Vertical						
Test Mode:	TX G Mode 2412MHz		500				
Remark:	No report for the emission which more than 10 dB below the						
	prescribed limit.						

N	o. N	Иk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	-	4822.716	28.80	14.55	43.35	54.00	-10.65	AVG
2			4823.532	42.17	14.55	56.72	74.00	-17.28	peak



Page: 32 of 67

Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage: AC 120V/60HZ						
Ant. Pol.	Horizontal					
Test Mode:	TX G Mode 2437MHz	1:30	U.H.D.			
Remark:	No report for the emission which more than 10 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		4873.748	43.05	14.86	57.91	74.00	-16.09	peak
2	*	4874.666	28.92	14.86	43.78	54.00	-10.22	AVG

Emission Level= Read Level+ Correct Factor

Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60HZ					
Ant. Pol.	Vertical					
Test Mode:	TX G Mode 2437MHz		500			
Remark: No report for the emission which more than 10 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		4872.902	43.04	14.85	57.89	74.00	-16.11	peak
2	*	4874.504	28.91	14.86	43.77	54.00	-10.23	AVG



Page: 33 of 67

Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage: AC 120V/60HZ					
Ant. Pol.					
Test Mode:	TX G Mode 2462MHz	U.37	DAIL S		
Remark:	No report for the emission which more than 10 dB below the				
	prescribed limit.				

No	o. Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.862	47.30	15.17	62.47	74.00	-11.53	peak
2	*	4924.030	34.60	15.17	49.77	54.00	-4.23	AVG

Emission Level= Read Level+ Correct Factor

Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60HZ						
Ant. Pol.	Vertical						
Test Mode:	TX G Mode 2462MHz		THE STATE OF THE S				
Remark:	3 below the						
	1013						

No	. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.856	46.42	15.17	61.59	74.00	-12.41	peak
2	*	4924.348	33.29	15.17	48.46	54.00	-5.54	AVG



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Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	AC 120V/60HZ				
Ant. Pol.					
Test Mode:	TX N(HT20) Mode 2412M	Hz	C. C.		
Remark:	No report for the emission which more than 10 dB below the				
		- 11			

No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4823.628	28.81	14.55	43.36	54.00	-10.64	AVG
2		4824.912	42.31	14.55	56.86	74.00	-17.14	peak

Emission Level= Read Level+ Correct Factor

Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60HZ						
Ant. Pol.	Vertical	Vertical					
Test Mode:	TX N(HT20) Mode 2412	2MHz	THE STATE OF THE S				
Remark:	Remark: No report for the emission which more than 10 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		*	4823.574	28.81	14.55	43.36	54.00	-10.64	AVG
2			4824.804	41.67	14.55	56.22	74.00	-17.78	peak



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Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	AC 120V/60HZ				
Ant. Pol.	Horizontal				
Test Mode:	TX N(HT20) Mode 2437MHz				
Remark:	No report for the emission which more than 10 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		4873.202	42.55	14.86	57.41	74.00	-16.59	peak
2	*	4874.840	28.90	14.86	43.76	54.00	-10.24	AVG

Emission Level= Read Level+ Correct Factor

Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60HZ					
Ant. Pol.	Vertical	Vertical				
Test Mode:	TX N(HT20) Mode	TX N(HT20) Mode 2437MHz				
Remark:	No report for the emission which more than 10 dB below the					
	prescribed limit.					

No	o. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4872.854	28.82	14.85	43.67	54.00	-10.33	AVG
2		4875.068	42.44	14.87	57.31	74.00	-16.69	peak



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Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	AC 120V/60HZ				
Ant. Pol.	Horizontal				
Test Mode:					
Remark:	No report for the emission which more than 10 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		*	4923.970	34.64	15.17	49.81	54.00	-4.19	AVG
2			4923.994	46.48	15.17	61.65	74.00	-12.35	peak

Emission Level= Read Level+ Correct Factor

Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60HZ					
Ant. Pol.	Vertical					
Test Mode:	TX N(HT20) Mode 2462MHz					
Remark:	No report for the emission which more than 10 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		4923.754	46.13	15.17	61.30	74.00	-12.70	peak
2	*	4923.970	34.10	15.17	49.27	54.00	-4.73	AVG



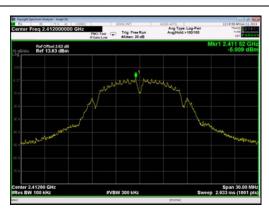
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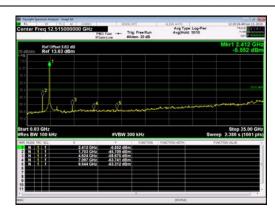
Conducted RF Spurious Emission Test Data

Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120/60Hz					
Test Mode:	TX B Mode	33	W. O.			
Remark:	This report only shall the worst case mode for TX IEEE 802.11b.					

2412 MHz

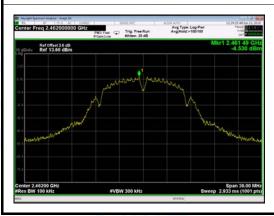
0.03GHz-26.5GHz

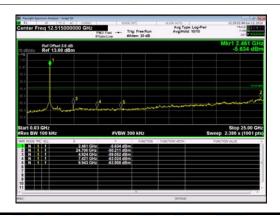




2462 MHz

0.03GHz-26.5GHz







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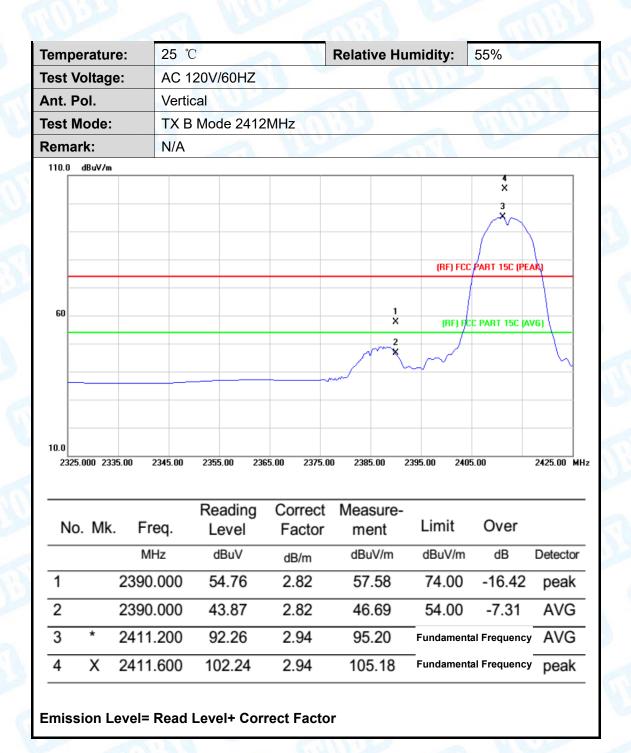
Attachment C-- Restricted Bands Requirement and Band-edge Test Data

(1) Radiation Test

em	peratu	re:	25 °C	<u> </u>	-	BING	Rela	ative	Humidity:	55%	
es	t Voltag	e:	AC 120V/60HZ								
\nt	. Pol.		Horiz	zontal	Jan State		9				1
es	t Mode:		TX E	Mode	2412	MHz				THE ST	
Ren	nark:		N/A		V	MARK					
120.0	O dBuV/m										
										3	
										X	
										Ž.	
									(RF) FCC	PART 15C (P	EAK)
70											
									I K (BE) FO	C PART 15C (AVGI
									2	CTAIT ISC	
								\ \rac{1}{2}			4
							_/				
20.0											
20.0 23	325.000 23	35.00 2	345.00	2355.00	236	5.00 2375	5.00 238	35.00	2395.00 240	5.00	2425.00
				Read	ling	Correc	t Mea	sure	-		
١	No. Mk	. Fre	eq.	Lev	_	Factor	me	ent	Limit	Over	
_		MH	łz	dBu	V	dB/m	dBı	uV/m	dBuV/m	dB	Detector
1		2390.	000	54.2	22	2.82	57	.04	74.00	-16.96	peak
2		2390.	000	42.8	37	2.82	45	5.69	54.00	-8.31	AVG
3	Х	2410.	600	101.	73	2.93	104	4.66	Fundamental	Frequency	peak
	*	2411.		92.1		2.94	95		– Fundamental F	-	AVG

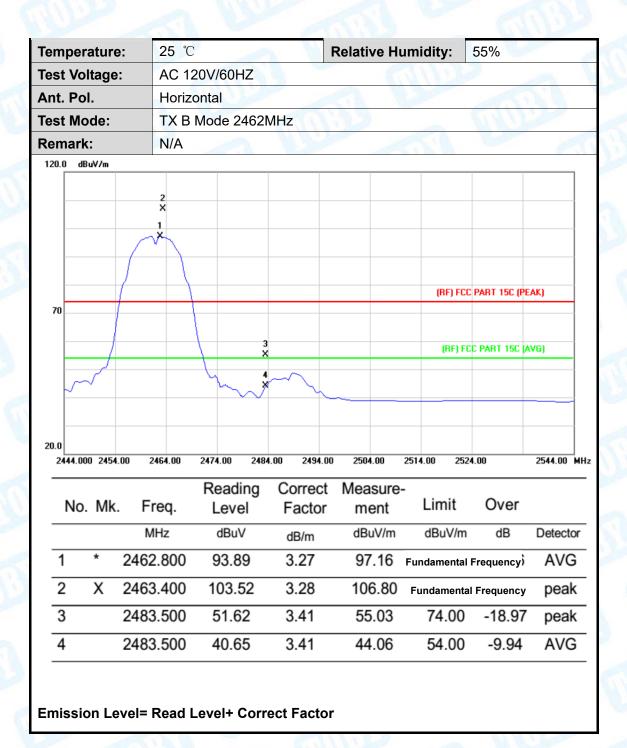


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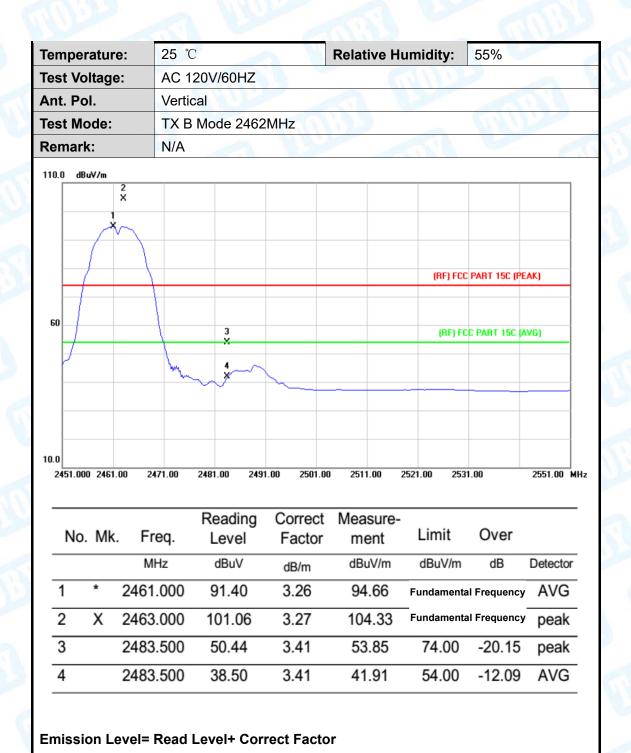


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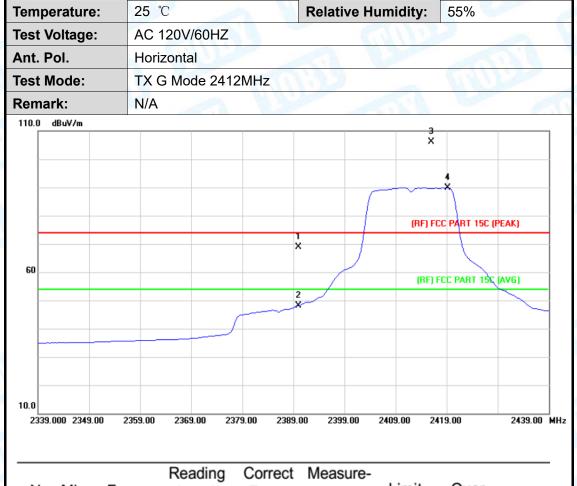


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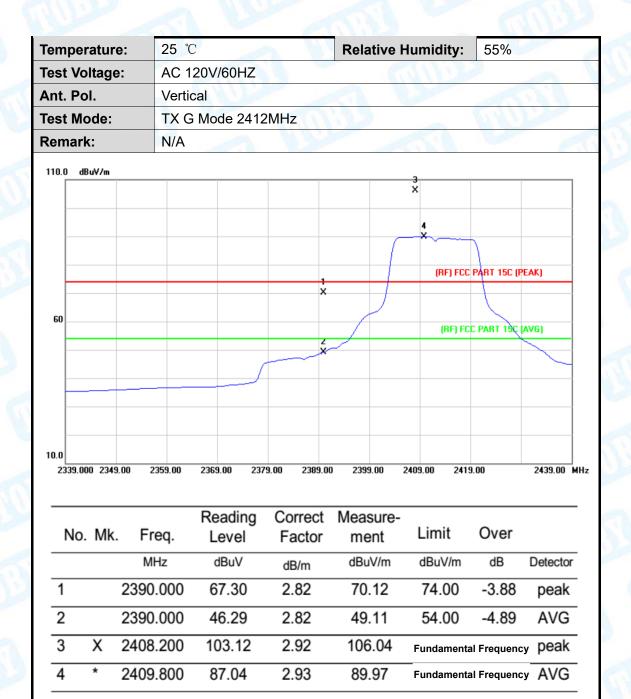
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No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	66.18	2.82	69.00	74.00	-5.00	peak
2		2390.000	45.26	2.82	48.08	54.00	-5.92	AVG
3	Χ	2416.000	103.23	2.97	106.20	Fundament	al Frequenc	peak
4	*	2419.200	86.92	2.99	89.91	Fundamenta	l Frequency	AVG



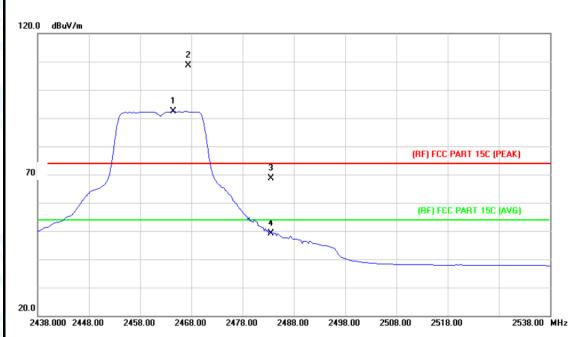
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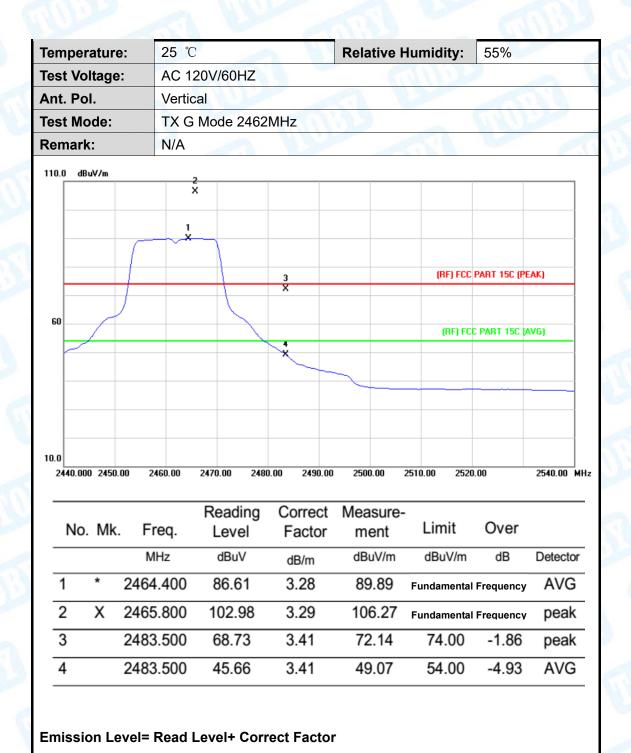
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60HZ						
Ant. Pol.	Horizontal						
Test Mode:	TX G Mode 2462MHz	(1)	CHO.				
Remark:	N/A						



No	o. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2464.400	89.05	3.28	92.33	Fundamenta	l Frequency	AVG
2	Х	2467.400	105.36	3.31	108.67	– Fundamenta	I Frequency	peak
3		2483.500	65.11	3.41	68.52	74.00	-5.48	peak
4		2483.500	45.84	3.41	49.25	54.00	-4.75	AVG

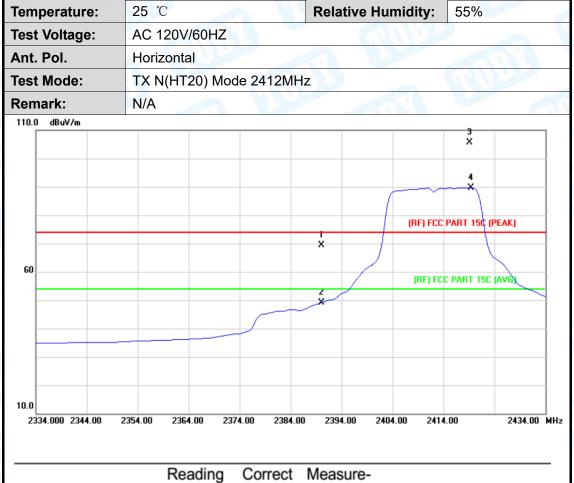


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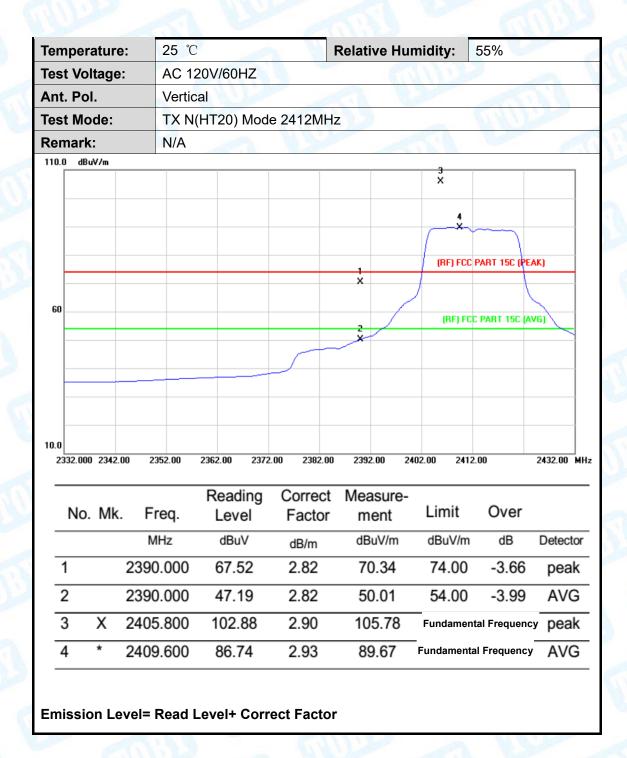
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	66.45	2.82	69.27	74.00	-4.73	peak
2		2390.000	46.28	2.82	49.10	54.00	-4.90	AVG
3	Х	2419.200	102.63	2.99	105.62	Fundamenta	l Frequency	peak
4	*	2419.400	86.72	2.99	89.71	Fundamenta	l Frequency	AVG

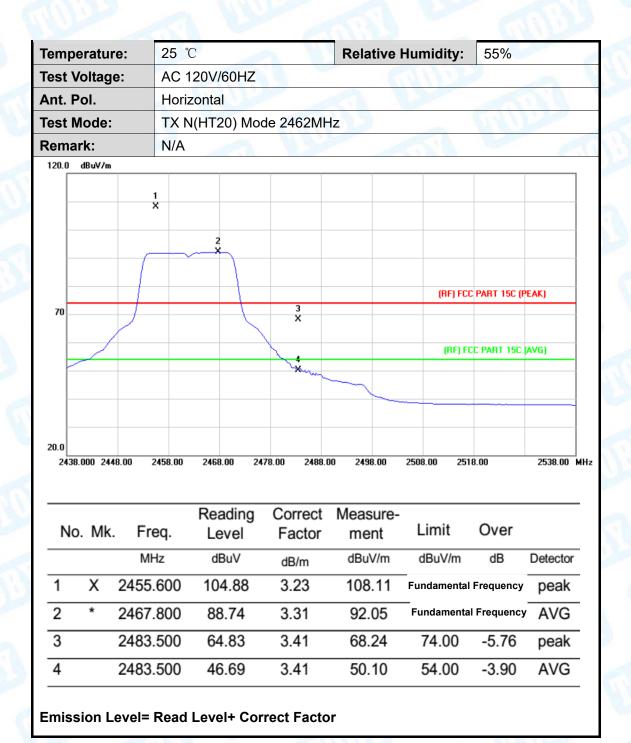


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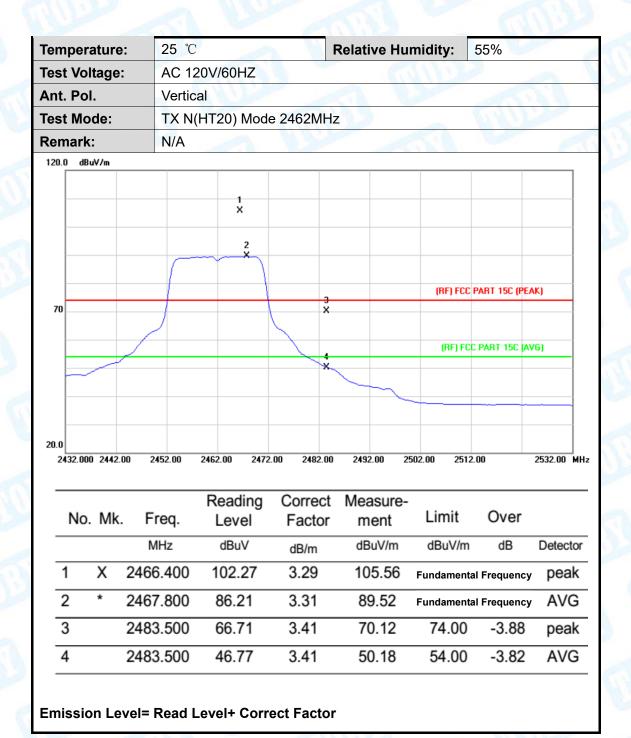


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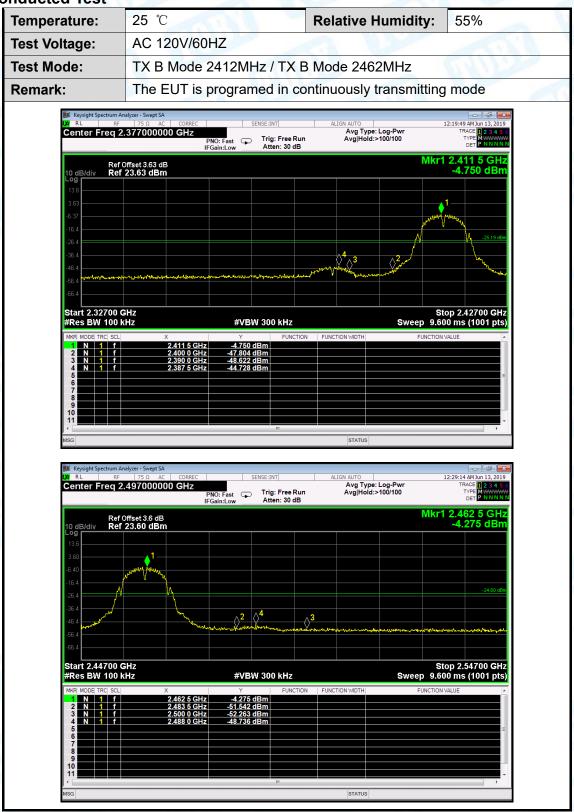
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(2) Conducted Test





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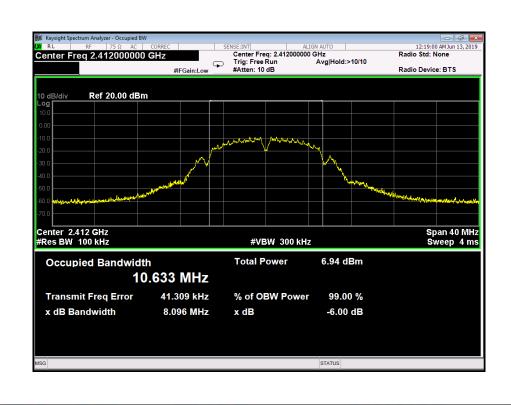


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Attachment D-- Bandwidth Test Data

Temperature:	25	5 °C	Relative Humidity:	55%				
Test Voltage:	A	C 120V/60HZ						
Test Mode:	T	X 802.11B Mode	1:19	CHILD				
Channel frequency 6dB Bandwidth			99% Bandwidth	Limit				
(MHz)		(MHz)	(MHz)	(MHz)				
2412		8.096	10.633					
2437		8.034	10.524	>=0.5				
2462 8.		8.578	10.547					

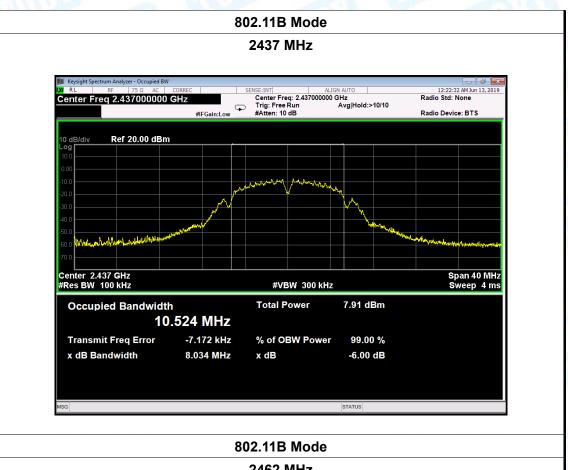
802.11B Mode

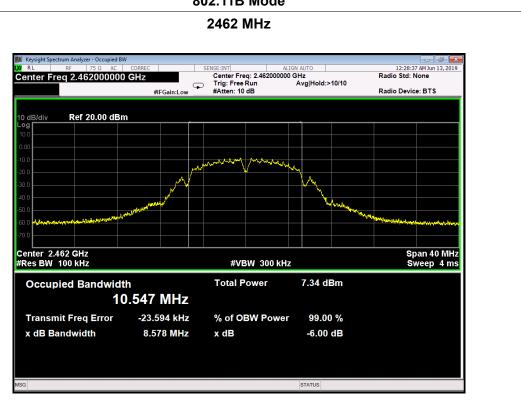




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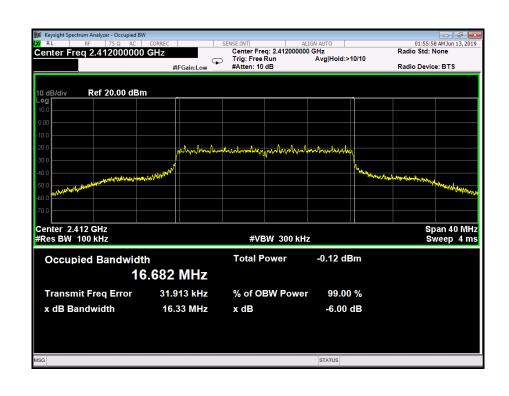






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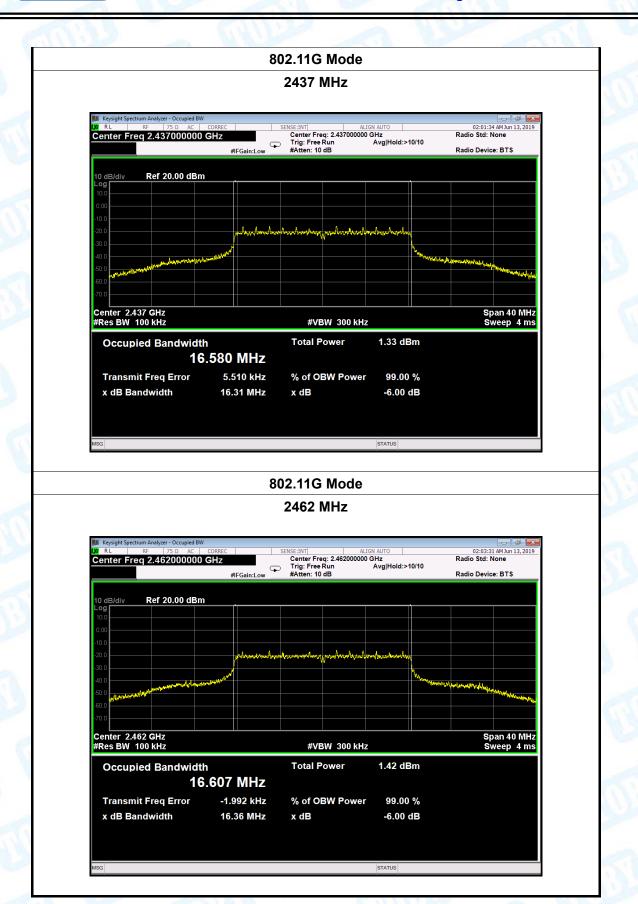
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60HZ					
Test Mode:	Test Mode: TX 802.11G Mode					
Channel frequence	cy 6dB Bandwidth	99% Bandwidth	Limit			
(MHz)	(MHz)	(MHz)	(MHz)			
2412	16.33	16.682				
2437	16.31	16.580	>=0.5			
2462	16.36	16.607				
	802 11G I	Mode				





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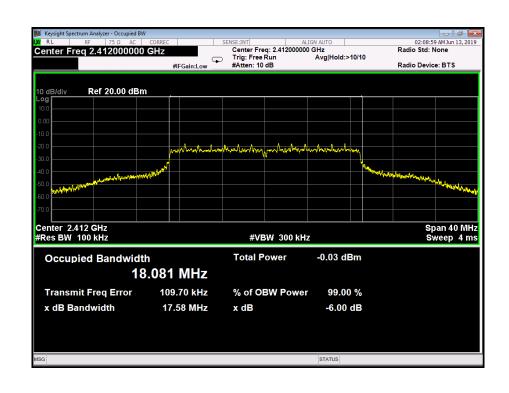






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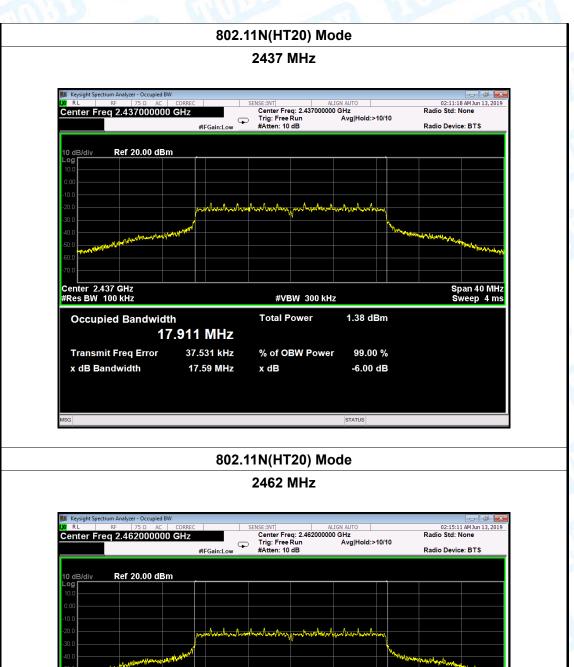
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60HZ						
Test Mode:	TX 802.11N(HT20) Mode						
Channel frequence	cy 6dB Bandwidth	99% Bandwidth	Limit				
(MHz)	(MHz)	(MHz)	(MHz)				
2412	17.58	18.081					
2437	17.59	17.911	>=0.5				
2462	17.60						
	802.11N(HT2	0) Mode					





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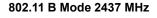
Attachment E-- Peak Output Power Test Data

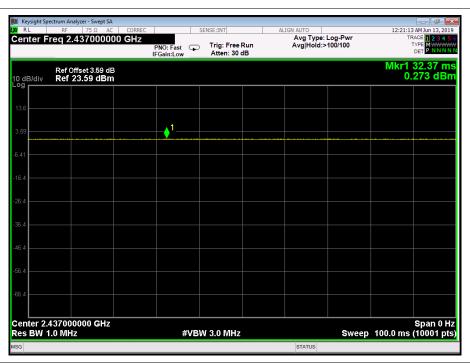
Test Conditions	: Continuous transm	Continuous transmitting Mode					
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60HZ		CHI I				
Mode	Channel frequency (MHz)	Test Result (dBm)	Limit (dBm)				
	2412	5.676					
802.11b	2437	6.604					
	2462	6.094					
	2412	2.697					
802.11g	2437	3.968	30				
	2462	4.267					
000 44	2412	2.613					
802.11n	2437	4.076					
(HT20)	2462	3.237					
	Resu	ult: PASS					

Duty Cycle								
Mode	Channel frequency (MHz)	Test Result						
	2412							
802.11b	2437							
	2462							
	2412							
802.11g	2437	>98%						
	2462							
902 44 m	2412							
802.11n (HT20)	2437							
(11120)	2462							



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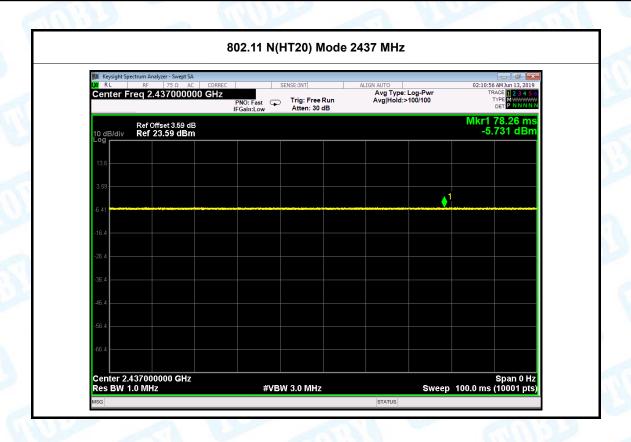


802.11 G Mode 2437 MHz





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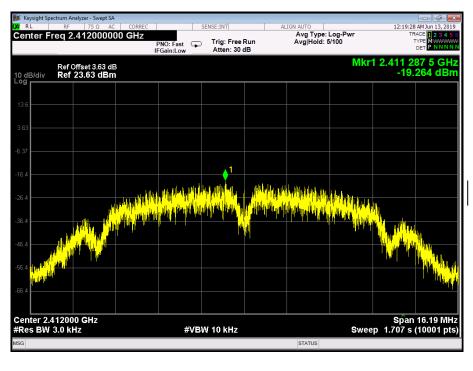
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Attachment F-- Power Spectral Density Test Data

Temperature:	25 ℃ Relative Hu			: 55%		
Test Voltage:	AC 120V/60HZ					
Test Mode:	TX 802.1	TX 802.11B Mode				
Channel Frequency	Channel Frequency		ensity	Limit		
(MHz)		(dBm/3	kHz)	(dBm/3kHz)		
2412	2412		64			
2437		-18.314		8		
2462		-18.919				

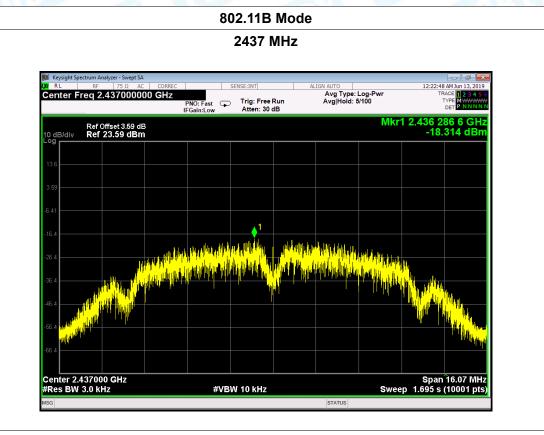
802.11B Mode



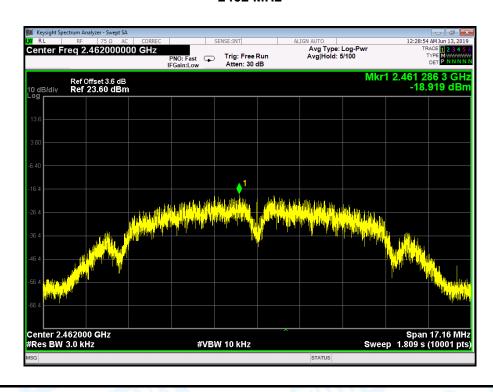


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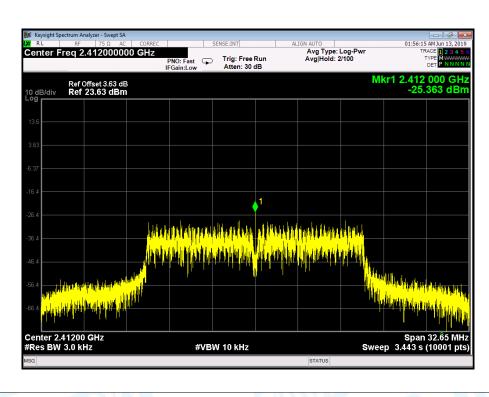
802.11B Mode





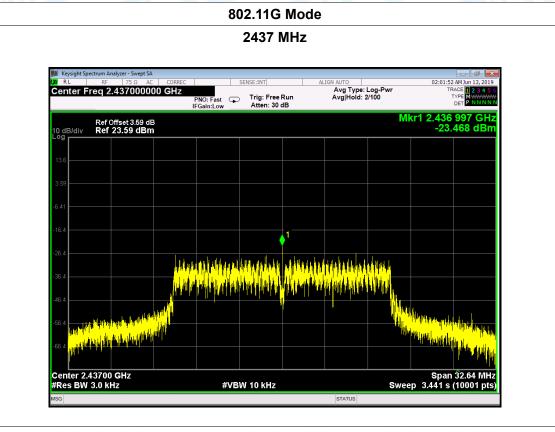
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Temperature:	25 ℃		Temper	ature:	25 ℃		
Test Voltage:	AC 120V/60HZ						
Test Mode:	TX 802.11G Mode						
Channel Frequency		Power Density			Limit		
(MHz)		(dBm/3 kHz)			(dBm/3kHz)		
2412		-25.363					
2437		-23.468			8		
2462		-26.610					
		802 11	IG Mode				

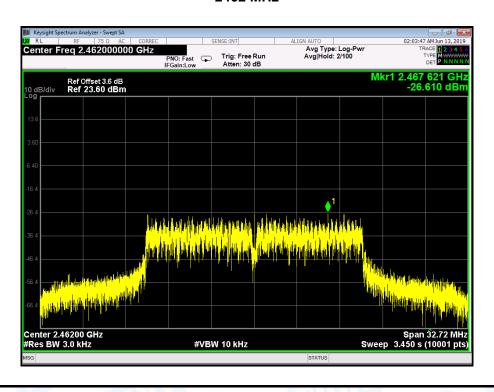




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802.11G Mode

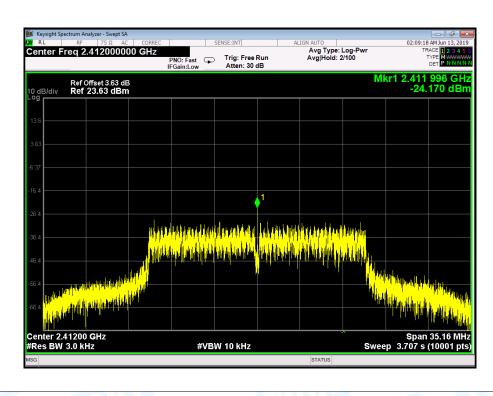




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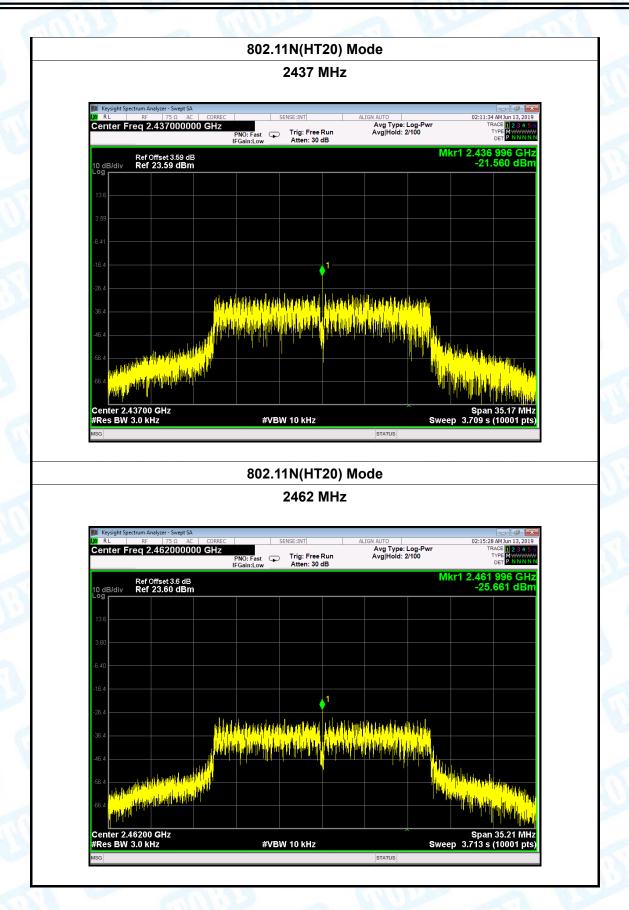
Temperature:	25 ℃		Temperature:	25 ℃			
Test Voltage:	AC 120V/60HZ						
Test Mode:	TX 802.11N(HT20) Mode						
Channel Frequency		Power Density		Limit			
(MHz)		(dBm/3 kHz)		(dBm/3kHz)			
2412		-24.170					
2437		-21.560		8			
2462		-25.661					
		902 44N/UT2	0) Modo				

802.11N(HT20) Mode





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