

Shenzhen Toby Technology Co., Ltd.

Report No.: TB-FCC168539

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FCC Radio Test Report FCC ID: 2AUFZ-ZD6

Original Grant

Report No. TB-FCC168539

Shantou Fulaiying Toy Technology Co.,Ltd **Applicant**

Equipment Under Test (EUT)

EUT Name Remote Control Four-axis Aircraft

Model No. FLY-X5

Series Model No. See page 5

Brand Name Fulaiying

Receipt Date 2019-08-27

2019-08-28 to 2019-09-06 **Test Date**

Issue Date 2019-09-07

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

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

Engineer Supervisor

Engineer Manager

Jack Deng

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-FCC168539	Rev.01	Initial issue of report	2019-09-07
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1. General Information about EUT

1.1 Client Information

Applicant : Shantou Fulaiying Toy Technology Co.,Ltd		
Address		No.4, lane 1, Ronan Road, Toufen Village, Fengxiang Street, Chenghai
Address	•	No.4, lane 1, Ronan Road, Toufen Village, Fengxiang Street, Chenghai District, Shantou City, Guangdong Province
Manufacturer : Shantou Fulaiying Toy Technology Co.,Ltd		Shantou Fulaiying Toy Technology Co.,Ltd
Address	١	No.4, lane 1, Ronan Road, Toufen Village, Fengxiang Street, Chenghai
Address	•	No.4, lane 1, Ronan Road, Toufen Village, Fengxiang Street, Chenghai District, Shantou City, Guangdong Province

1.2 General Description of EUT (Equipment Under Test)

EUT Name		Remote Control Four	-axis Aircraft	
Models No.		FLY-X5, ZD6, X54, X6HD, ZD5, ZD6-GPS, ZD8, ZD8-GPS, ZD9,		
Models No.	•	X10MINI, GD-65A		
Model	-5		the same PCB, layout and electrical circuit, the	
Difference	•	only difference is cha	nge appearance, including in size and color	
		Operation	802.11b/g: 2412MHz~2462MHz	
	4	Frequency:	002.11b/g. 2412WHZ 2402WHZ	
		Number of Channel:	802.11b/g:11 channels see note(3)	
Product		RF Output Power:	802.11b: 13.62dBm	
Description			802.11g: 12.91dBm	
		Modulation Type:	802.11b: DSSS(CCK, DQPSK, DBPSK)	
			802.11g: OFDM	
		Antenna Gain:	2dBi FPC Antenna	
Power Rating		DC 3.7V 750mAH by	Battery	
Software Version	:	X52_v1540		
Hardware Version	1	LG_X52RX_V2		
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, the test procedure follows the FCC KDB 558074 D01 DTS Meas Guidance v05.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



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(3) Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	05	2432	09	2452
02	2417	06	2437	10	2457
03	2422	07	2442	11	2462
04	2427	80	2447		
Note: CH 01~CH 11 for 802.11b/g					

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

TX Mode	6300		WILD TO	W. C.
		EUT		



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1.4 Description of Support Units

Equipment Information						
Name Model		FCC ID/VOC	Manufacturer	Used "√"		
1		1	1	URRI		

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				
103				

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			

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)

- (2) During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.
- (3) The EUT is considered a mobile device; 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		n/a	
Channel	CH 01	CH 06	CH 11
IEEE 802.11b DSSS	15	15	15
IEEE 802.11g OFDM	17	17	17
Test Software Version	N COLUMN	n/a	

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
ALL THE PROPERTY OF THE PROPER	150kHz to 30MHz	±3.42 dB
Padiated Emission	Level Accuracy:	14 60 dB
Radiated Emission	9kHz to 30 MHz	±4.60 dB
Radiated Emission	Level Accuracy:	±4.40 dB
Radiated Emission	30MHz to 1000 MHz	±4.40 dB
Radiated Emission	Level Accuracy:	±4.20 dB
Radiated Effilssion	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	D	
FCC	IC	restitem	Judgment	Remark	
15.203	1	Antenna Requirement	PASS	N/A	
15.207	RSS-GEN 7.2.4	Conducted Emission		N/A	
15.205	RSS-GEN 7.2.2	Restricted Bands	PASS	N/A	
15.247(a)(2)	RSS 247	6dB Bandwidth	PASS	N/A	
10.247 (4)(2)	5.2 (1)	odb Bariawidir	17100	14/7	
15 247(b)	RSS 247	Book Output Bower	PASS	N/A	
15.247(b)	5.4 (4)	Peak Output Power	PASS	IN/A	
45.047()	RSS 247	D 0 () ID ''	DA 00	11/4	
15.247(e)	5.2 (2)	Power Spectral Density	PASS	N/A	
45.047(1)	RSS 247	SWIE THE THE	DAGO	N1/A	
15.247(d)	5.5	Band Edge	PASS	N/A	
15.247(d)&	RSS 247	Transmitter Radiated Spurious	DACC	NI/A	
15.209	5.5	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

					Cal. Due
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jul. 13, 2019	Jul. 12, 2020
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jul. 13, 2019	Jul. 12, 2020
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul. 13, 2019	Jul. 12, 2020
LISN	Rohde & Schwarz	ENV216	101131	Jul. 13, 2019	Jul. 12, 2020
Radiation Emission	on Test				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 13, 2019	Jul. 12, 2020
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jul. 13, 2019	Jul. 12, 2020
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. 13, 2019	Jul. 12, 2020
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. 13, 2019	Jul. 12, 2020
Spectrum Analyzer	Rohde & Schwarz	ESCI	100010/007	Jul. 13, 2019	Jul. 12, 2020
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 Dower Sensor	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

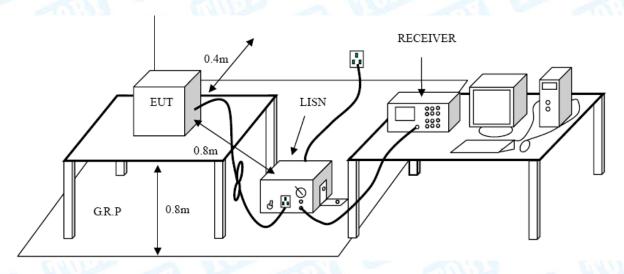
Conducted Emission Test Limit

	Maximum RF Line	e 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

No requirement for this test item



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

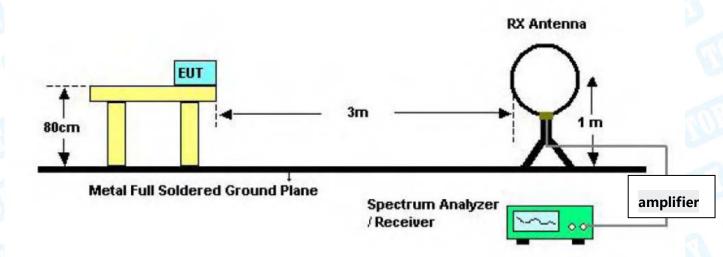
Note:

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

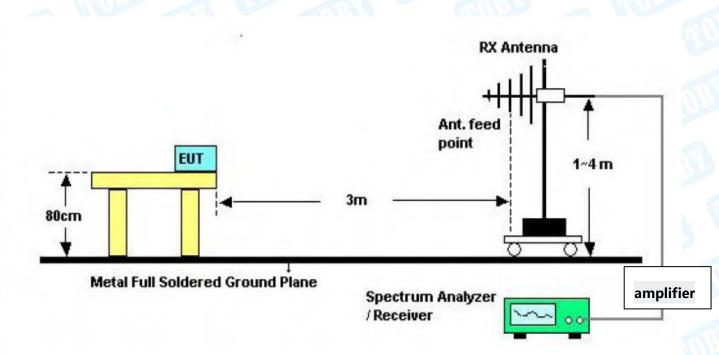


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5.2 Test Setup



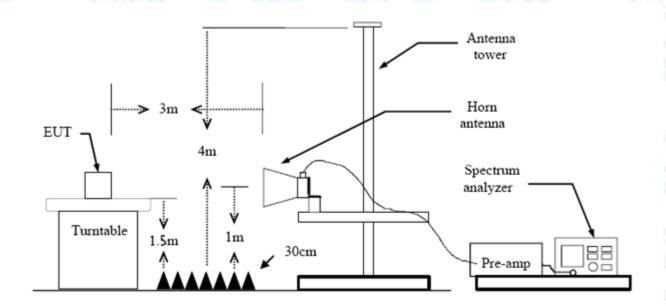
Below 30MHz Test Setup



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 A.



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6. Restricted Bands Requirement

6.1 Test Standard and Limit

6.1.1 Test Standard

FCC Part 15.247(d)

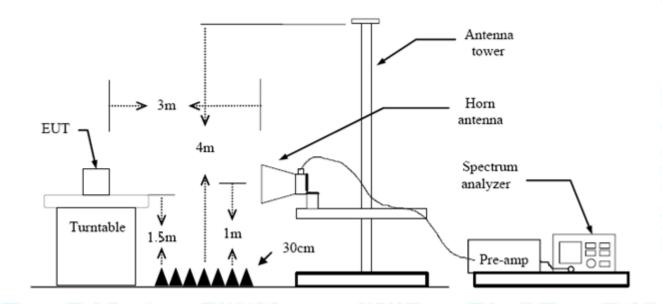
FCC Part 15.209

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 B.



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7. Bandwidth Test

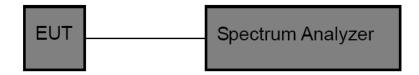
7.1 Test Standard and Limit

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

7.1.2 Test Limit

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

7.2 Test Setup



7.3 Test Procedure

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

7.4 EUT Operating Condition

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

7.5 Test Data

Please refer to the Attachment C.



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8. Peak Output Power Test

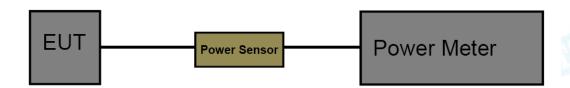
8.1 Test Standard and Limit

8.1.1 Test Standard FCC Part 15.247 (b)

8.1.2 Test Limit

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

8.2 Test Setup



8.3 Test Procedure

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

8.4 EUT Operating Condition

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

8.5 Test Data

Please refer to the Attachment D.



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9. Power Spectral Density Test

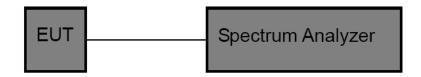
9.1 Test Standard and Limit

9.1.1 Test Standard FCC Part 15.247 (e)

9.1.2 Test Limit

FC	CC Part 15 Subpart C(15.2	47)
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 E.



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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 2dBi, 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.D.	⊠Permanent attached antenna	
	☐Unique connector antenna	<u> </u>
13	☐Professional installation antenna	3



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Attachment A-- 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

Tempe	rature	:	25	$^{\circ}$ C		4	A	M.D.		Rel	ative	еΗι	ımi	dity	:	55%		M	3
Test Vo	oltage		DC	3.7	7 V		13			M.				K	1				
Ant. Po	ol.		Но	rizo	nta	I			68			I						<u>. </u>	
Test Mo	ode:		TX	TX B Mode 2412MHz							3	1				1	1	3	
Remarl	k:		On	ly w	ors	e c	ase i	s rep	orted	M	100			a	N	32			A
80.0 dB	uV/m																		
													(R	F)FCC	15C 3	M Rad	fiation	•	
						-										Mar	gin -6	dB	4
_		_		+	+	⊏										+			4
30						4						_					6 X		- 4
			1						2	3 X		*	~~	my	5 //X	n	A,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Mary	mm	m	* hym			سمان			~ MA	ww	hran	A ALVA							
				4	*	AUC VI	Marine Marine (M	MA ALAMANA											
																			1
						+													-
-20 <u>30.000</u>	40	50	60	70	80			((MHz)		;	300	4	00	500	600	700	10	00.00
					_	2	alia a	0-		N/1									
N	lo. Mi	Κ.	Fre	q.	ľ		ading vel		rrect actor	Mea m	ent	9-	Lim	it	0	ver			
			МН	Z		dE	BuV	d	B/m	dB	uV/m	ı	dBu	V/m		dB	D	etec	tor
1		5	6.00	07		42	.94	-24	4.01	18	3.93		40	.00	-2	1.0	7	QF	0
2		18	39.7	384		38	3.10	-19	9.78	18	3.32		43	.50	-2	5.1	8	QF)
3		23	35.8	163		38	.97	-1	7.86	21	1.11		46	.00	-2	4.8	9	QF)
4		32	27.88	872		38	.31	-1	5.10	23	3.21		46	.00	-2	2.7	9	QF)
5		54	13.2	740		32	.90	-9	.03	23	3.87		46	.00	-2	2.1	3	QF)
6	*	70)4.2	259		34	.12	-6	5.58	27	7.54		46	.00	-1	8.4	6	QF	_



Page: 25 of 53

Temperature:	25 ℃		Re	elative Humi	dity: 5	55%	
Test Voltage:	DC 3	.7V		a CHI	العالية		A STATE
Ant. Pol.	Vertic	al		1	611	1133	
Test Mode:	TXB	Mode 2412	MHz		1 6		MAN !
Remark:	Only	worse case	is reported	MILE		a W	1 lease
80.0 dBuV/m							
					(RF)FCC	15C 3M Radiatio	n
						Margin -6	6 dB
30	3					6	
1 2 X X	3 4 X X				and Market	5 ************************************	MAN
MANNY C. BANNAGA	r mr M	my mm		mmhmaha	W/		
		Man N	mathyr Manueller Al	W-~			
20 30.000 40 5	0 60 70		(MHz)	300		500 600 700	1000.00
30.000 40 5		Reading	(MHz) Correct		400 5		1000.00
30.000 40 5	0 60 70 Freq.		(MHz)	300		0ver	1000.00
30.000 40 5		Reading	(MHz) Correct	300 Measure-	400 5	Over	1000.00
30.000 40 5 No. Mk.	Freq.	Reading Level	(MHz) Correct Factor	Measure- ment	400 s	Over	
No. Mk.	Freq.	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	400 s	Over	Detecto
No. Mk. 1 39 2 47	Freq. MHz 9.4371	Reading Level dBuV 40.26	Correct Factor dB/m -18.90	Measure- ment dBuV/m 21.36	400 ! Limit dBuV/m 40.00	Over dB -18.64	Detecto
No. Mk. 1 39 2 47 3 * 54	Freq. MHz 9.4371 7.3253	Reading Level dBuV 40.26 44.51 48.14	Correct Factor dB/m -18.90 -22.45 -23.88	300 Measure- ment dBuV/m 21.36 22.06 24.26	400 ! Limit dBuV/m 40.00 40.00	Over dB -18.64 -17.94 -15.74	Detecto QP QP QP
No. Mk. 1 39 2 47 3 * 54 4 61	Freq. MHz 9.4371 7.3253 4.8348	Reading Level dBuV 40.26 44.51 48.14 46.59	Correct Factor dB/m -18.90 -22.45 -23.88 -24.29	300 Measure- ment dBuV/m 21.36 22.06 24.26 22.30	400 ! Limit dBuV/m 40.00 40.00 40.00	Over dB -18.64 -17.94 -15.74 -17.70	Detecto QP QP QP
No. Mk. 1 39 2 47 3 * 54 4 61 5 51	Freq. MHz 9.4371 7.3253	Reading Level dBuV 40.26 44.51 48.14	Correct Factor dB/m -18.90 -22.45 -23.88	300 Measure- ment dBuV/m 21.36 22.06 24.26	400 ! Limit dBuV/m 40.00 40.00	Over dB -18.64 -17.94 -15.74 -17.70 -24.17	Detecto QP QP QP



Page: 26 of 53

Above 1GHz

Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V	Million	
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz		
Remark:	No report for the emission	which more than 20 dE	B below the prescribed
	limit.	3	

No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.574	45.59	14.55	60.14	74.00	-13.86	peak
2	*	4823.604	29.66	14.55	44.21	54.00	-9.79	AVG

Emission Level= Read Level+ Correct Factor

25 ℃	Relative Humidity:	55%			
DC 3.7V	TO THE REAL PROPERTY.				
Vertical	Vertical				
TX B Mode 2412MHz					
No report for the emission w	No report for the emission which more than 20 dB below the				
prescribed limit.					
	DC 3.7V Vertical TX B Mode 2412MHz No report for the emission was a second control of the emission was a second control	DC 3.7V Vertical TX B Mode 2412MHz No report for the emission which more than 20 dB			

N	۱o.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1			4824.924	47.70	14.55	62.25	74.00	-11.75	peak
2		*	4824.924	33.70	14.55	48.25	54.00	-5.75	AVG



Page: 27 of 53

Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V	THE PARTY OF THE P	
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2437MHz		
Remark:	No report for the emission	which more than 20 dE	B below the
	prescribed limit.		

No.	Mk.	Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.562	43.28	14.86	58.14	74.00	-15.86	peak
2	*	4873.562	29.16	14.86	44.02	54.00	-9.98	AVG

Emission Level= Read Level+ Correct Factor

25 ℃	Relative Humidity:	55%			
DC 3.7V	THU TO	100			
Vertical					
TX B Mode 2437MHz					
No report for the emission	which more than 20 dE	B below the			
prescribed limit.					
	DC 3.7V Vertical TX B Mode 2437MHz No report for the emission	DC 3.7V Vertical TX B Mode 2437MHz No report for the emission which more than 20 dB			

No	o. Mk	. Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4874.990	47.72	14.86	62.58	74.00	-11.42	peak
2	*	4875.218	33.82	14.87	48.69	54.00	-5.31	AVG



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Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V	Million	
Ant. Pol.	Horizontal	31 - 0	
Test Mode:	TX B Mode 2462MHz		
Remark:	No report for the emission	which more than 20 dE	B below the
	prescribed limit.		33

No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4925.128	43.92	15.19	59.11	74.00	-14.89	peak
2	*	4925.182	29.82	15.19	45.01	54.00	-8.99	AVG

Emission Level= Read Level+ Correct Factor

25 ℃	Relative Humidity:	55%				
DC 3.7V	THU TO					
Vertical						
TX B Mode 2462MHz						
No report for the emission	No report for the emission which more than 20 dB below the					
prescribed limit.						
	DC 3.7V Vertical TX B Mode 2462MHz No report for the emission	DC 3.7V Vertical TX B Mode 2462MHz No report for the emission which more than 20 dB				

No	o. N	Мk.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*		4924.234	30.04	15.17	45.21	54.00	-8.79	AVG
2			4924.558	48.03	15.17	63.20	74.00	-10.80	peak



Page: 29 of 53

Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2412MI	Hz	
Remark:	No report for the en	nission which more than 20 dE	B below the
	prescribed limit.		33

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.220	44.59	14.55	59.14	74.00	-14.86	peak
2	*	4825.056	29.89	14.56	44.45	54.00	-9.55	AVG

Emission Level= Read Level+ Correct Factor

25 ℃	Relative Humidity:	55%			
DC 3.7V	THU TO	100			
Vertical					
TX G Mode 2412MHz					
No report for the emission which more than 20 dB below the					
prescribed limit.					
	DC 3.7V Vertical TX G Mode 2412MHz No report for the emission	DC 3.7V Vertical TX G Mode 2412MHz No report for the emission which more than 20 dB			

-	No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	4822.500	29.57	14.55	44.12	54.00	-9.88	AVG
2			4825.008	43.92	14.55	58.47	74.00	-15.53	peak



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Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal	31	
Test Mode:	TX G Mode 2437MHz		
Remark:	No report for the emission	which more than 20 dE	B below the
	prescribed limit.		

N	No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	4874.708	30.26	14.86	45.12	54.00	-8.88	AVG
2			4874.726	43.28	14.86	58.14	74.00	-15.86	peak

Emission Level= Read Level+ Correct Factor

Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	DC 3.7V	THU TO				
Ant. Pol.	Vertical					
Test Mode:	TX G Mode 2437MHz					
Remark:	No report for the emission which more than 20 dB below the					
	prescribed limit.					

No	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4875.236	42.28	14.87	57.15	74.00	-16.85	peak
2	*	4875.236	29.26	14.87	44.13	54.00	-9.87	AVG



Page: 31 of 53

Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V	Millian	
Ant. Pol.	Horizontal	(1) T	
Test Mode:	TX G Mode 2462MHz		
Remark:	No report for the emission	which more than 20 dE	B below the
	prescribed limit.		

No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4924.798	43.27	15.18	58.45	74.00	-15.55	peak
2	*	4925.182	29.06	15.19	44.25	54.00	-9.75	AVG

Emission Level= Read Level+ Correct Factor

Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.7V	THE STATE OF THE S					
Ant. Pol.	Vertical						
Test Mode:	TX G Mode 2462MHz						
Remark:	No report for the emission	No report for the emission which more than 20 dB below the					
	prescribed limit.		THE STATE OF THE PARTY OF THE P				

No	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4923.292	29.57	15.17	44.74	54.00	-9.26	AVG
2		4924.630	44.38	15.17	59.55	74.00	-14.45	peak



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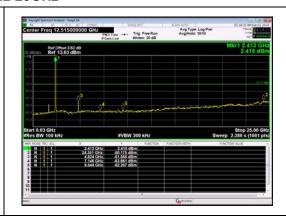
Conducted RF Spurious Emission Test Data

Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	DC 3.7V	113	133		
Test Mode:	TX B Mode	10			
Remark:	This report only shall the worst case mode for TX IEEE 802.11b.				

2412 MHz

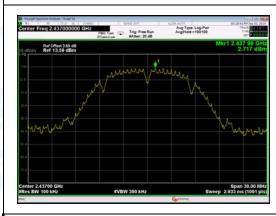
0.03GHz-25GHz

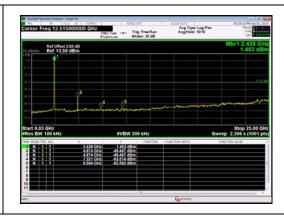




2437 MHz

0.03GHz-25GHz

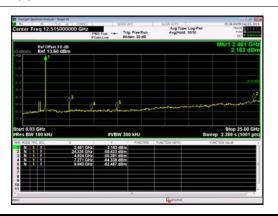




2462 MHz

0.03GHz-25GHz



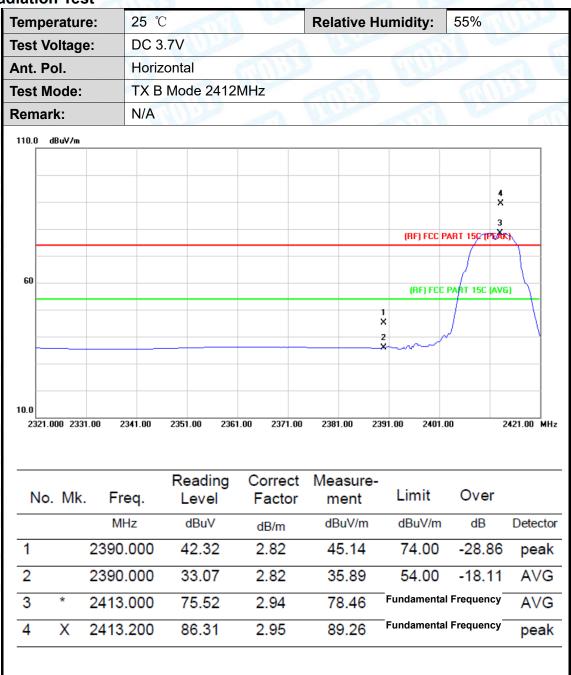




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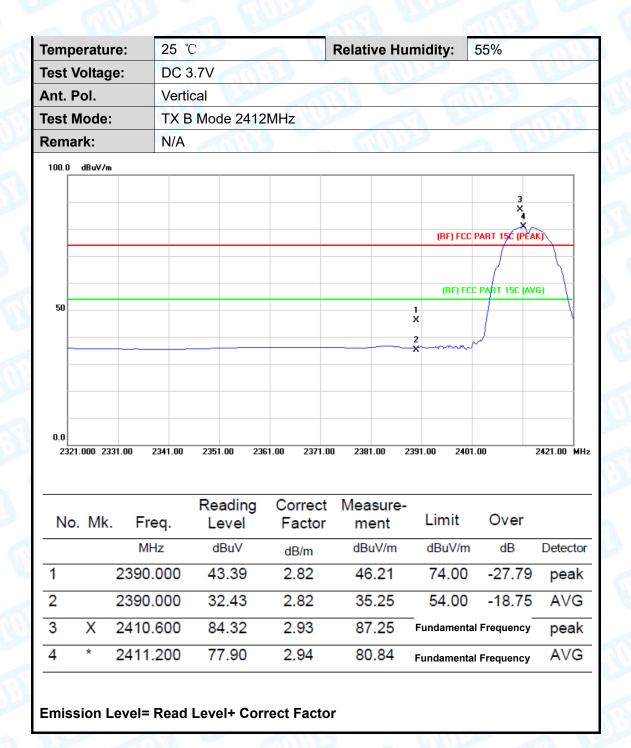
Attachment B-- Restricted Bands Requirement and Band-edge Test Data

(1) Radiation Test





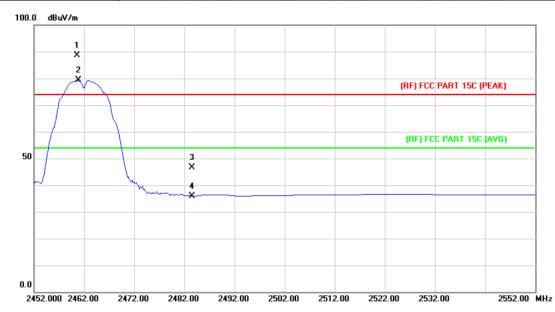
Page: 34 of 53





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Ter	nperature:	25 ℃	Relative Humidity:	55%
Tes	st Voltage:	DC 3.7V		
An	t. Pol.	Horizontal		עניה
Tes	st Mode:	TX B Mode 2462MHz		
Re	mark:	N/A		THE PARTY OF THE P

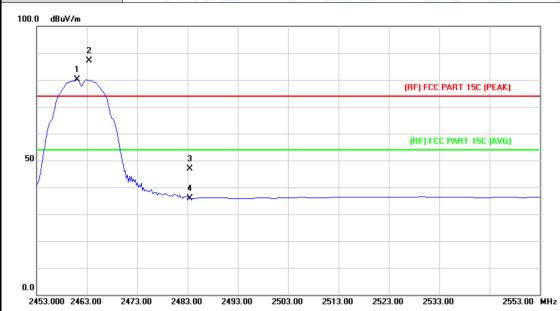


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2460.600	85.49	3.26	88.75	Fundamenta	l Frequency	peak
2	*	2460.800	76.05	3.26	79.31	 Fundamenta	I Frequency	AVG
3		2483.500	43.26	3.41	46.67	74.00	-27.33	peak
4		2483.500	32.53	3.41	35.94	54.00	-18.06	AVG



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Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V	Million	
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2462MHz		
Remark:	N/A	WILD S	

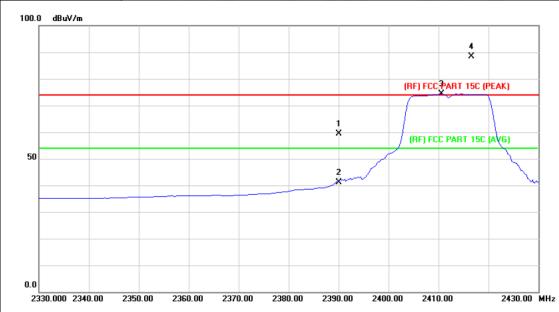


No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2461.000	76.78	3.26	80.04	Fundamental Frequency		AVG
2	X	2463.400	83.97	3.28	87.25	Fundamental Frequency		peak
3		2483.500	43.55	3.41	46.96	74.00	-27.04	peak
4		2483.500	32.52	3.41	35.93	54.00	-18.07	AVG



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į.	Temperature:	25 ℃	Relative Humidity:	55%
Ì	Test Voltage:	DC 3.7V		
	Ant. Pol.	Horizontal		
١	Test Mode:	TX G Mode 2412MHz		
d	Remark:	N/A	MIDE	A VIII

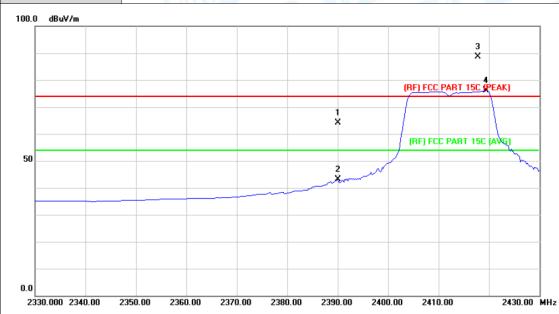


N	o. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	56.59	2.82	59.41	74.00	-14.59	peak
2		2390.000	38.43	2.82	41.25	54.00	-12.75	AVG
3	*	2410.600	71.38	2.93	74.31	Fundamental I	Frequency	AVG
4	X	2416.600	85.48	2.97	88.45	Fundamental I	Frequency	peak



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Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2412MHz		
Remark:	N/A	MILLER	JAN TON

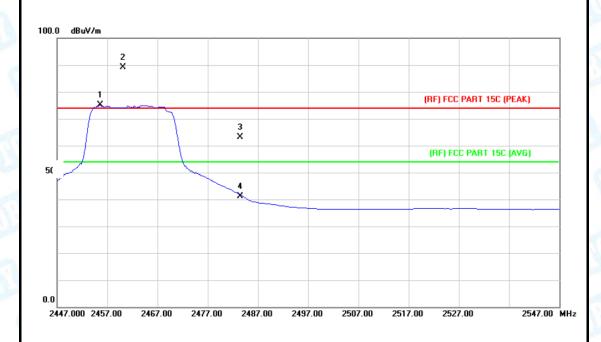


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	61.33	2.82	64.15	74.00	-9.85	peak
2		2390.000	40.43	2.82	43.25	54.00	-10.75	AVG
3	Χ	2417.800	85.64	2.98	88.62	Fundamental	Frequency	peak
4	×	2419.400	73.03	2.99	76.02	Fundamental	Frequency	AVG



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	Temperature:	25 ℃	Relative Humidity:	55%
ì	Test Voltage:	DC 3.7V	Million	
	Ant. Pol.	Horizontal		
Ì	Test Mode:	TX G Mode 2462MHz		
	Remark:	N/A		THE PARTY OF

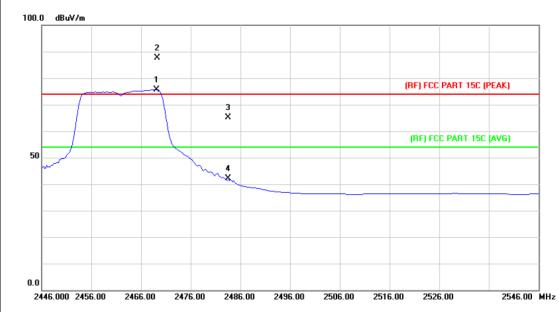


No.	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2455.600	71.87	3.23	75.10	Fundamenta	I Frequency	AVG
2	Χ	2460.200	85.86	3.26	89.12	Fundamenta	I Frequency	peak
3		2483.500	59.69	3.41	63.10	74.00	-10.90	peak
4		2483.500	37.61	3.41	41.02	54.00	-12.98	AVG

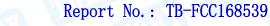


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	Temperature:	25 ℃	Relative Humidity:	55%
	Test Voltage:	DC 3.7V		
4	Ant. Pol.	Vertical		
	Test Mode:	TX G Mode 2462MHz	NO W	
1	Remark:	N/A	MILE	July Milliam



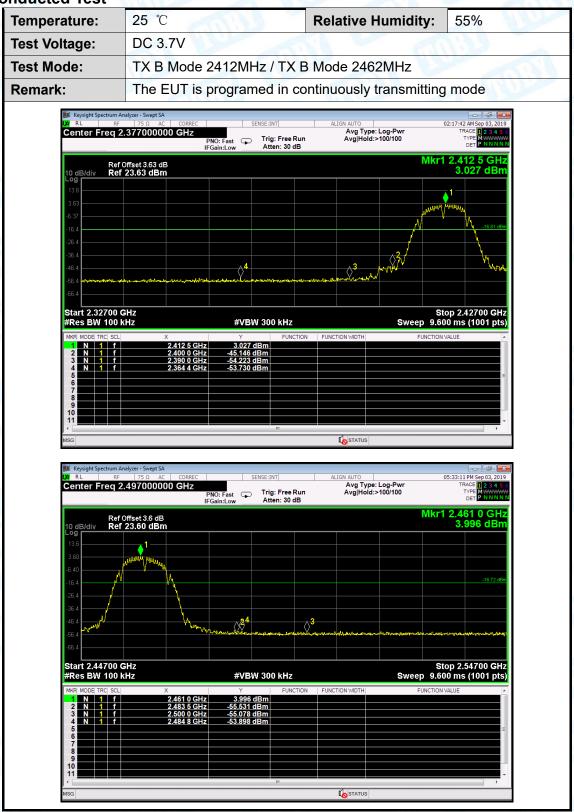
No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2469.200	72.35	3.32	75.67	Fundamenta	Frequency	AVG
2	Χ	2469.210	84.26	3.32	87.58	Fundamenta	Frequency	peak
3		2483.500	61.81	3.41	65.22	74.00	-8.78	peak
4		2483.500	38.80	3.41	42.21	54.00	-11.79	AVG







(2) Conducted Test







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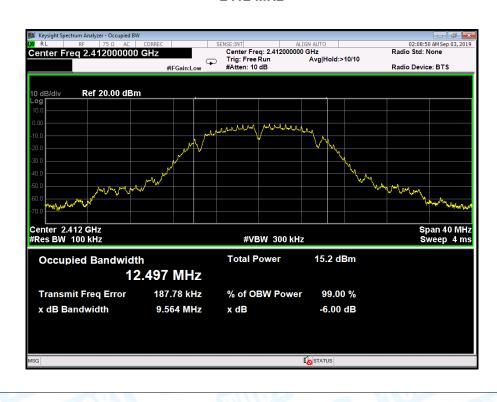
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Attachment C-- Bandwidth Test Data

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		11:33
Test Mode:	TX 802.11B Mode		
Channel frequence	y 6dB Bandwidth	99% Bandwidth	Limit
(MHz)	(MHz)	(MHz)	(MHz)
2412	9.564	12.497	
2437	9.578	12.558	>=0.5
2462	9.031	12.039	
			•

802.11B Mode

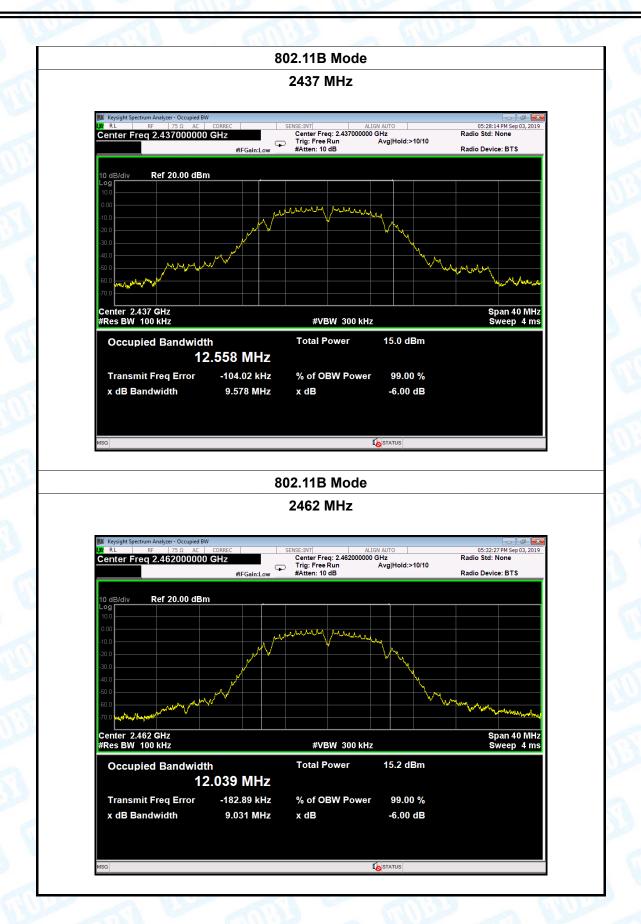
2412 MHz





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OBY Repor





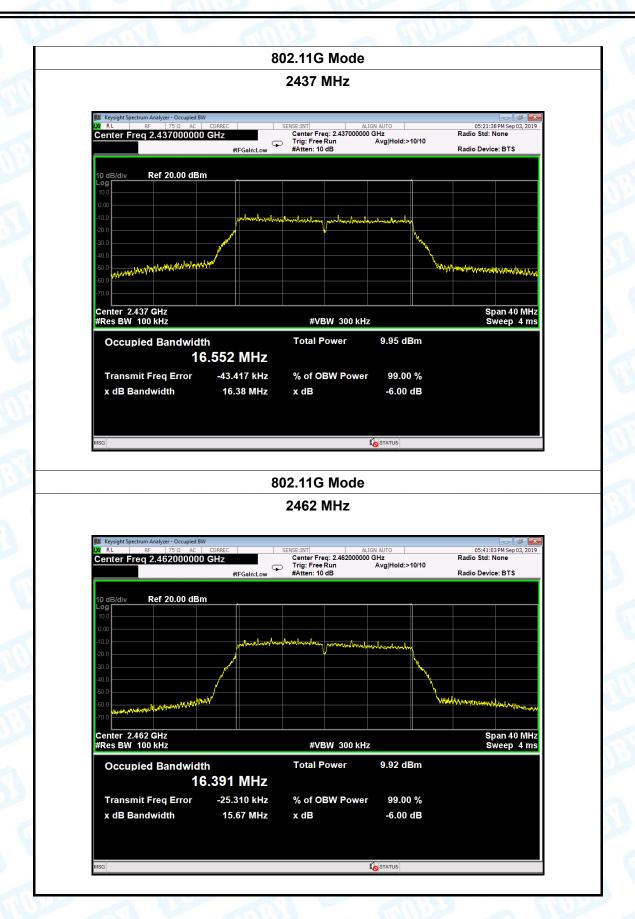
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emperature:	25	$^{\circ}$ C		Relative Hun	nidity:	55%
est Voltage:	DC	3.7V			18	
est Mode:	TX	802.11G Mode	1		611	1:39
hannel freque	ncy	6dB Bandw	ridth	99% Bandy	vidth	Limit
(MHz)		(MHz)		(MHz)		(MHz
2412		15.75		16.523	3	
2437		16.38		16.552)	>=0.5
2462		15.67		16.391		
		80	02.11G Mo	de		-1
	RF 75 Ω	AC CORREC	SENSE:INT	ALIGN AUTO		04:32:55 PM Sep 03, 2019
	RF 75 Ω	AC CORREC 1000 GHz #IFGain:Low	Center Freq: 2.412 Trig: Free Run #Atten: 10 dB		Radio	
10 dB/div Log 10.0 -10.0 -20.0 -30.0 -40.0 -50.0	RF 75 Ω q 2.41200 0	AC CORREC	Center Freq: 2.412 Trig: Free Run #Atten: 10 dB	000000 GHz	Radio	04:32:55 PM Sep 03, 2019 • Std: None
10 dB/div Log 10.0 .10.0 .20.0 .30.0 .40.0 .50.0 .70.0	Ref 20.00	AC CORREC	Center Freq: 2.412 Trig: Free Run #Atten: 10 dB	000000 GHz	Radio	04:32:55 PM Sep 03, 2019 Std: None Device: BTS
10 dB/div Log 10.0 20.0 30.0 40.0 Center 2.41 #Res BW 1	Ref 20.00 Ref 20.00	AC CORREC	Center Freq: 2.415 Trig: Free Run #Atten: 10 dB	Avg Hold:>10/10	Radio	04:32:55 PM Sep 03, 2019 Std: None Device: BTS
10 dB/div Log 10.0 20.0 30.0 40.0 Center 2.41 #Res BW 1	Ref 20.00	AC CORREC	Center Freq: 2.412 Trig: Free Run #Atten: 10 dB	Avg Hold:>10/10	Radio	9432:55 PM Sep 03, 2019 Std: None Device: BTS



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Attachment D-- Peak Output Power Test Data

Test Condition	ns: Continuous Trans	mitting Mode	
Temperature:	25 ℃	Relative Humid	ity: 55%
Test Voltage:	DC 3.7V		733
Mode	Channel frequency (MHz)	Test Result (dBm)	Limit (dBm)
	2412	13.58	
802.11b	2437	13.33	
	2462	13.62	20
	2412	12.77	30
802.11g	2437	12.88	
	2462	12.91	
	Re	sult: PASS	



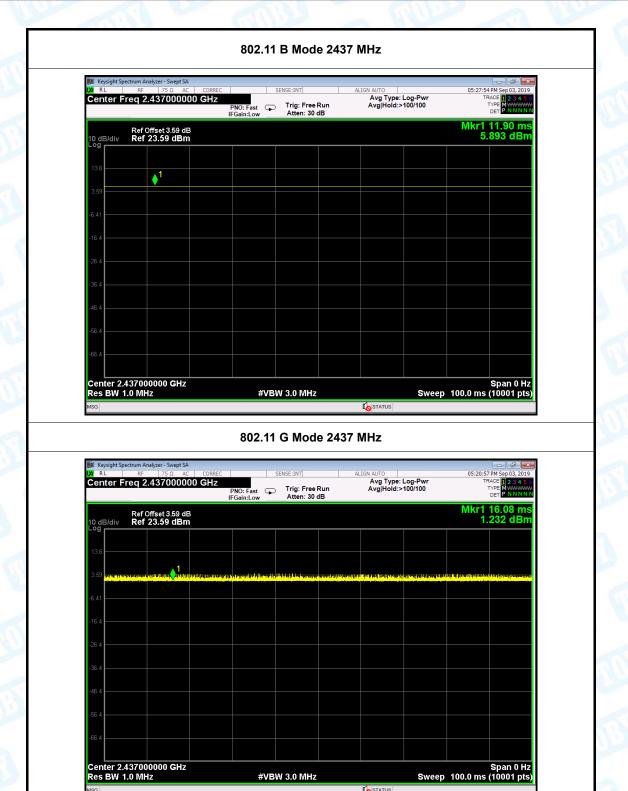
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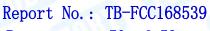
Duty Cycle							
Mode	Channel frequency (MHz)	Test Result					
	2412						
802.11b	2437						
	2462	>000/					
	2412	>98%					
802.11g	2437						
	2462						



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Temperature:	25 ℃		Relative Humidity:	55%
Test Voltage:	DC 3.7V	The same of		7:19
Test Mode:	TX 802.1	IB Mode		
Channel Frequency	uency	Power D	ensity	Limit
(MHz)		(dBm/3	kHz)	(dBm/3 kHz)
2412		-10.2	93	
2437		-10.9	62	8
2462		-11.0	16	
		802.11B	Mode	
		04401		

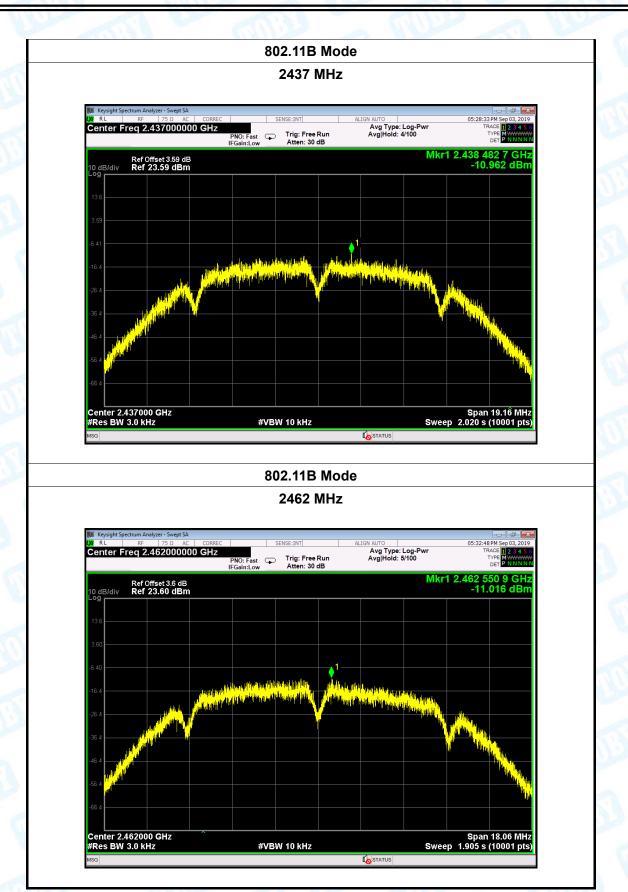






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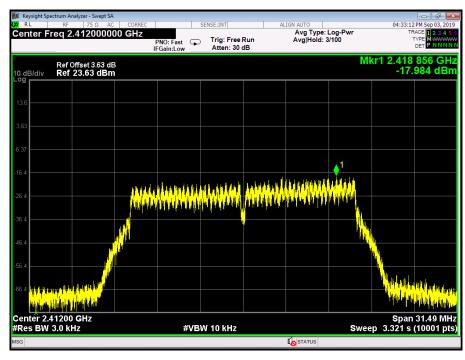






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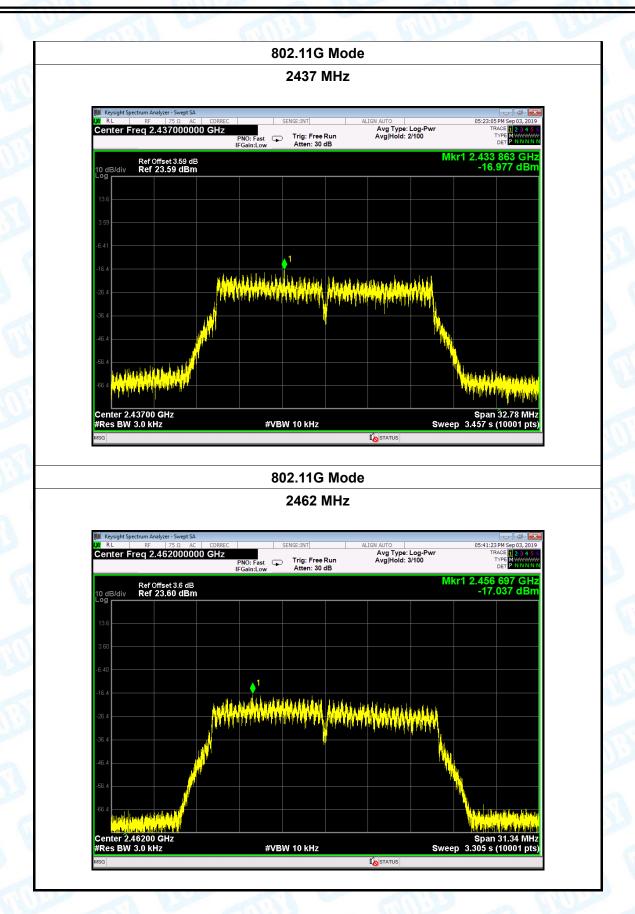
Temperature:	25 ℃	Temperat	ure: 25 °C
Test Voltage:	DC 3.7V		للا ور الان
Test Mode:	TX 802.11G Mode		
Channel Frequency		Power Density	Limit
(MHz)		(dBm/3 kHz)	(dBm/3 kHz)
2412		-17.984	
2437 2462		-16.977	8
		-17.037	
	1	802.11G Mode	
		2412 MHz	





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