

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Report No: CCIS15080067601

FCC REPORT (WIFI)

Applicant: LE WEI TECHNOLOGY (HK) LIMITED

Unit 612~613, Baoyuan Huafeng Headquarters Economy

Address of Applicant: Building A, No. 288, Xixiang Avenue, Baoan District, Shenzhen

City, Guangdong Province, China

Equipment Under Test (EUT)

Product Name: 2.4G WiFi video transmitter module

Model No.: LW6304

FCC ID: 2AFV4LW6304

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: 27 Aug., 2015

Date of Test: 27 Aug., 2015 to 16 Oct., 2015

Date of report issued: 16 Oct., 2015

Test Result: PASS*

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

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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2 Version

Version No.	Date	Description
00	16 Oct., 2015	Original

Prepared by:	may lin	Date:	16 Oct., 2015	
	Report Clerk			
Reviewed by:	Carrey Chen	Date:	16 Oct., 2015	

Project Engineer

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4 Test Summary

4.1 Test Item

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass
6dB Emission Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247(d)	Pass
Spurious Emission	15.205/15.209	Pass

4.2 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes	
Radiated Emission	9kHz ~ 30MHz	±4.88 dB	(1)	
Radiated Emission	30MHz ~ 1000MHz	±4.88 dB	(1)	
Radiated Emission	1GHz ~ 26.5GHz	±4.88 dB	(1)	
AC Power Line Conducted Emission 150kHz ~ 30MHz ±3.28dB (1)				
Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%				

Pass: The EUT complies with the essential requirements in the standard. Remark: Test according to ANSI C63.4 -2009 and ANSI C63.10-2009





5 General Information

5.1 Client Information

Applicant:	LE WEI TECHNOLOGY (HK) LIMITED
Address of Applicant:	Unit 612~613, Baoyuan Huafeng Headquarters Economy Building A, No. 288, Xixiang Avenue, Baoan District, Shenzhen City, Guangdong Province, China
Manufacturer:	LE WEI TECHNOLOGY (HK) LIMITED
Address of Manufacturer:	Unit 612~613, Baoyuan Huafeng Headquarters Economy Building A, No. 288, Xixiang Avenue, Baoan District, Shenzhen City, Guangdong Province, China

5.2 General Description of E.U.T.

Product Name:	2.4G WiFi video transmitter module
Model No.:	LW6304
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(H20)) 2422MHz~2452MHz (802.11n(H40))
Channel numbers:	11 for 802.11b/802.11g/802.11(H20) 7 for 802.11n(H40)
Channel separation:	5MHz
Modulation technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Modulation technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps,54Mbps
Data speed (IEEE 802.11n):	Up to 150Mbps
Antenna Type:	Internal Antenna
Antenna gain:	2.5 dBi
Power supply:	Rechargeable Li-ion Battery DC3.7V-600mAh





Operation Frequency each of channel For 802.11b/g/n(H20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

	Operation Frequency each of channel For 802.11n(H40)						
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
		4	2427MHz	7	2442MHz		
		5	2432MHz	8	2447MHz		
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

802.11b/802.11g/802.11n (H20)

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The Highest channel	2462MHz

802.11n (H40)

Channel	Frequency
The lowest channel	2422MHz
The middle channel	2437MHz
The Highest channel	2452MHz



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5.3 Test environment and mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Operation mode	Keep the EUT in continuous transmitting with modulation

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(H20)	6.5Mbps
802.11n(H40)	13.5Mbps

Final Test Mode:

According to ANSI C63.4 standards, the test results are both the "worst case" and "worst setup" 1Mbps for 802.11b, 6Mbps for 802.11p, 6.5Mbps for 802.11n(H20) and 13.5 Mbps for 802.11n(H40). Duty cycle setting during the transmission is 100% with maximum power setting for all modulations.



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5.4 Description of Support Units

Manufacturer	nufacturer Description		Serial Number	FCC ID/DoC	
XANTREX	DC power supply	HPD-30-10SX	N/A	FCC VOC	

5.5 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Registration No.: 817957

Shenzhen Zhongjian Nanfang Testing Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in out files. Registration 817957, February 27, 2012.

• IC - Registration No.: 10106A-1

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

• CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

5.6 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,

Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755-23118282 Fax: +86-755-23116366





5.7 Test Instruments list

Radia	ated Emission:					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	08-23-2014	08-22-2017
2	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	03-28-2015	03-28-2016
3	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	03-28-2015	03-28-2016
4	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
5	Amplifier (10kHz-1.3GHz)	HP	8447D	CCIS0003	04-01-2015	03-31-2016
6	Amplifier (1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	04-01-2015	03-31-2016
7	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	04-01-2015	03-31-2016
8	Horn Antenna	ETS-LINDGREN	3160	GTS217	04-01-2015	03-31-2016
9	Printer	HP	HP LaserJet P1007	N/A	N/A	N/A
10	Positioning Controller	UC	UC3000	CCIS0015	N/A	N/A
11	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP	CCIS0023	03-28-2015	03-28-2016
12	EMI Test Receiver	Rohde & Schwarz	ESRP	CCIS0167	03-28-2015	03-28-2016
13	Loop antenna	Laplace instrument	RF300	EMC0701	04-01-2015	03-31-2016
14	Signal Analyzer	Rohde & Schwarz	FSIQ3	CCIS0088	04-08-2015	04-08-2016

Cond	Conducted Emission:								
Itama				Inventory	Cal. Date	Cal. Due date			
Item	Test Equipment	Manufacturer	Model No.	No.	(mm-dd-yy)	(mm-dd-yy)			
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	11-10-2012	11-09-2015			
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	03-28-2015	03-28-2016			
3	LISN	CHASE	MN2050D	CCIS0074	03-28-2015	03-28-2016			
4	Coaxial Cable	CCIS	N/A	CCIS0086	04-01-2015	03-31-2016			
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A			





6 Test results and Measurement Data

6.1 Antenna requirement:

Standard requirement: FCC Pa

FCC Part 15 C Section 15.203 /247(c)

15.203 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, 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.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The WiFi antenna is an internal antenna which cannot replace by end-user, the best case gain of the antenna is 2.5 dBi.







6.2 Conducted Emission

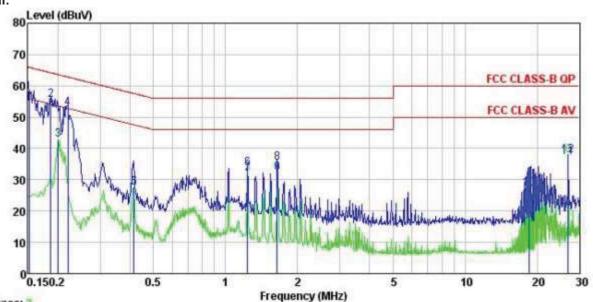
Test Requirement:	FCC Part 15 C Section 15.207	FCC Part 15 C Section 15.207						
Test Method:	ANSI C63.4: 2009							
Test Frequency Range:	150 kHz to 30 MHz							
Class / Severity:	Class B							
Receiver setup:	RBW=9 kHz, VBW=30 kHz							
Limit:	[[] [] [] [] [] [] [] [] [] [Limit (c	dBuV)					
	Frequency range (MHz)	Quasi-peak Average						
	0.15-0.5	66 to 56*	56 to 46*					
	0.5-5	56	46					
	5-30	60	50					
Test procedure	* Decreases with the logarithm1. The E.U.T and simulators							
	 a line impedance stabilization network (L.I.S.N.), which provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2009 on conducted measurement. 							
Test setup:	LISN	ence Plane	V.					
	40cm	U.T EMI Receiver	er — AC power					
Test Instruments:	Refer to section 5.6 for details	<u> </u>						
Test mode:	Refer to section 5.3 for details							
Test results:	Passed							

Measurement Data





Neutral:



Trace: 3

Site Condition

: CCIS Shielding Room : FCC CLASS-B QP LISN NEUTRAL : 2.4G WiFi video transmitter module EUT Model : LW6304
Test Mode : WIFI Mode
Power Rating : AC 120/60Hz to DC 3.7V
Environment : Temp: 23 °C Huni:56% Atmos:101KPa
Test Engineer: Carey
Remark

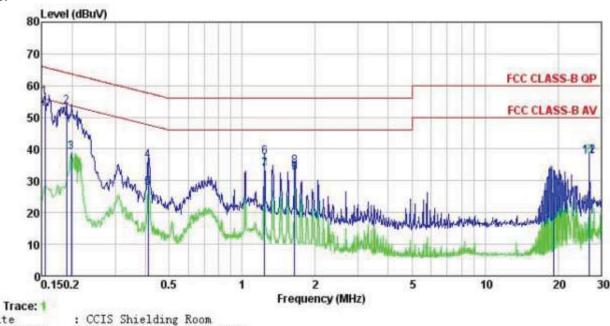
Remark

	Freq	Read Level	LISN Factor		Level	Limit Line	Over Limit	Remark
-	MHz	dBu₹	₫₿	₫B	₫₿u₹	dBuV	dB	
1 2 3	0.152 0.186	46.73 44.61	0.25 0.25		57.76 55.62		-8.15 -8.58	
3	0.201 0.220	31.68 41.85	0.25		52.86	62.83	-9.97	
5	0.415 1.236	16.42 22.65	0.24		27.41	56.00	-22.21	
4 5 6 7 8 9	1.236 1.645 1.645	20.65 24.29 20.90	0.24 0.27 0.27	10.93	31.79 35.49 32.10	56.00	-20.51	Average QP Average
10 11	18.524 26.984	15.96 25.68	0.26 0.66	10.91 10.87	27.13 37.21	50.00 60.00	-22.87 -22.79	Average QP
12	26.984	26.16	0.66	10.87	37.69	50.00	-12.31	Average





Line:



: CCIS Shielding Room : FCC CLASS-B QP LISN LINE Site Condition

EUT : 2.4G WiFi video transmitter module

Model : LW6304

Model : LW0304
Test Mode : WIFI Mode
Power Rating : AC 120/60Hz to DC 3.7V
Environment : Temp: 23 °C Huni:56% Atmos:101KPa

Test Engineer: Carey

Remark

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	<u>dB</u>	₫B	dBu∀	dBu∀	dB	
1	0.154	45.43	0.27	10.78	56.48	65.78	-9.30	QP
2	0.189	42.50	0.28	10.76	53.54	64.06	-10.52	QP
3	0.198	27.97	0.28	10.76	39.01	53.71	-14.70	Average
4	0.410	25.30	0.28	10.72	36.30	57.64	-21.34	QP
5	0.410	16.80	0.28	10.72	27.80	47.64	-19.84	Average
6	1.236	26.21	0.25	10.90	37.36	56.00	-18.64	QP
1 2 3 4 5 6 7 8 9 10	1.236	22.42	0.25	10.90	33.57	46.00	-12.43	Average
8	1.645	23.46	0.26	10.93	34.65	56.00	-21.35	QP
9	1.645	21.27	0.26	10.93	32.46	46.00	-13.54	Average
10	19.122	15.96	0.34	10.92	27.22			Average
11	26,984	26.00	0.66	10.87	37.53	60.00	-22.47	QP
12	26.984	26.38	0.66	10.87	37.91			Average

Notes:

- 1. An initial pre-scan was performed on the live and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss





6.3 Conducted Output Power

Test Requirement:	FCC Part 15 C Section 15.247 (b)(3)		
Test Method:	ANSI C63.10:2009 and KDB558074v03r03 section 9.2.2		
Limit:	30dBm		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 5.6 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Passed		

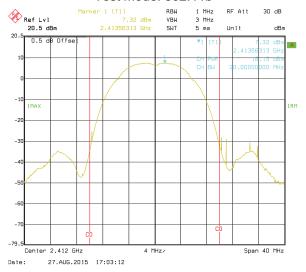
Measurement Data

Test CH	Ma	ximum Conduct	Limit(dBm)	Result		
Test CIT	802.11b	802.11g	802.11n(H20)	802.11n(H40)	Limit(dBin)	Nesult
Lowest	16.15	15.48	15.90	14.90		
Middle	15.81	14.96	14.83	14.81	30.00	Pass
Highest	16.34	14.11	13.94	14.45		

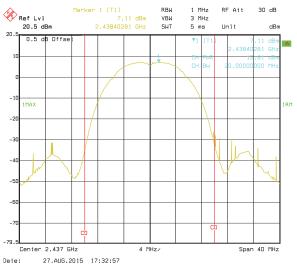
Test plot as follows:



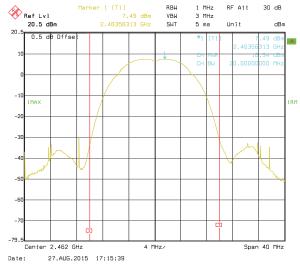
Test mode: 802.11b



Lowest channel

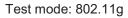


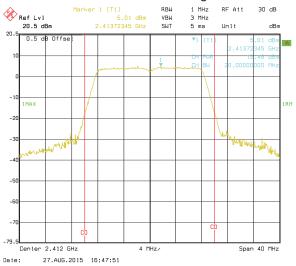
Middle channel



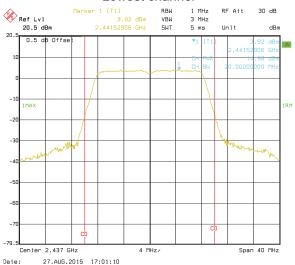
Highest channel



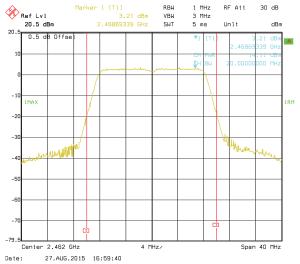




Lowest channel



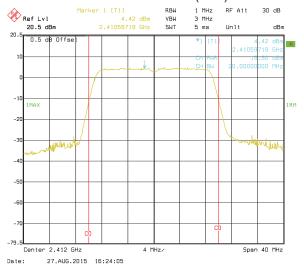
Middle channel



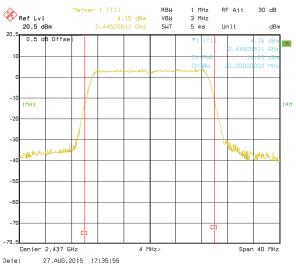
Highest channel



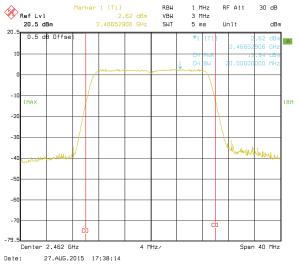
Test mode: 802.11n(H20)



Lowest channel



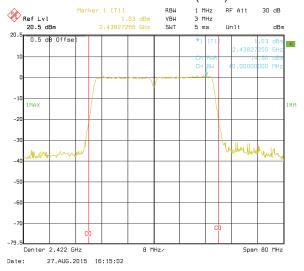
Middle channel



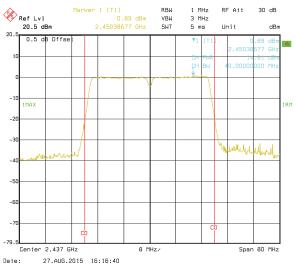
Highest channel



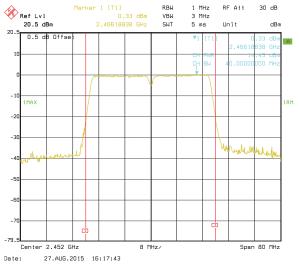
Test mode: 802.11n(H40)



Lowest channel



Middle channel



Highest channel





6.4 Occupy Bandwidth

Test Requirement:	FCC Part 15 C Section 15.247 (a)(2)		
Test Method:	ANSI C63.10:2009 and KDB558074v03r03 section 8.1		
Limit:	>500kHz		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 5.6 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Passed		

Measurement Data

Test CH		6dB Emission	Limit(kHz)	Result		
Test Off	802.11b	802.11g	802.11n(H20)	802.11n(H40)	Liiiii(Ki iZ)	result
Lowest	10.26	16.51	17.80	36.71		
Middle	10.26	16.51	17.80	36.71	>500	Pass
Highest	10.26	16.51	17.80	36.71		

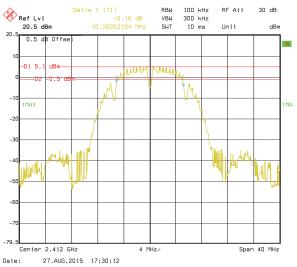
Test CH		99% Occupy	Limit(kHz)	Result		
restori	802.11b	802.11g	802.11n(H20)	802.11n(H40)	Liiiii(Ki iz)	rtosuit
Lowest	13.47	16.51	17.72	36.39		
Middle	13.47	16.51	17.72	36.39	N/A	N/A
Highest	13.55	16.51	17.72	36.23	_	

Test plot as follows:

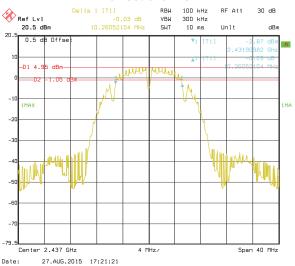


6dB EBW

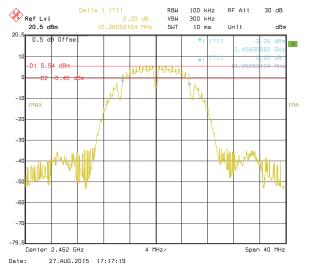
Test mode: 802.11b



Lowest channel

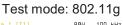


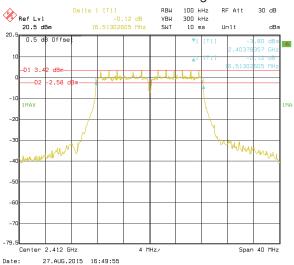
Middle channel



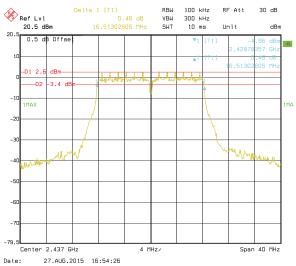
Highest channel



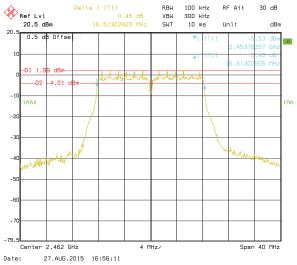




Lowest channel



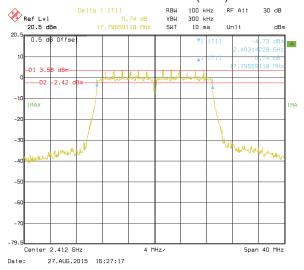
Middle channel



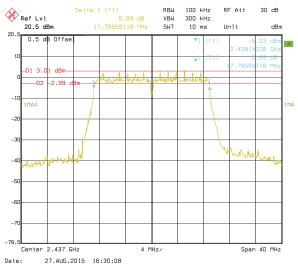
Highest channel



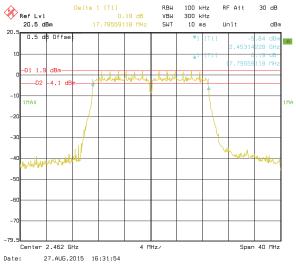
Test mode: 802.11n(H20)



Lowest channel



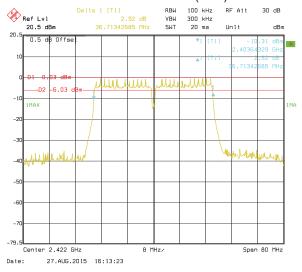
Middle channel



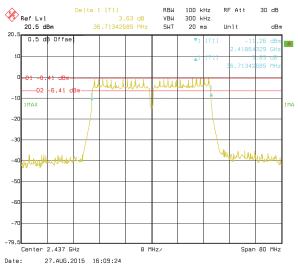
Highest channel



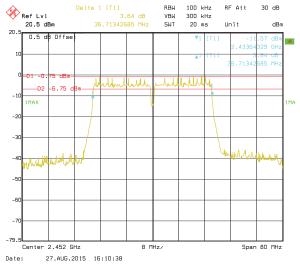
Test mode: 802.11n(H40)



Lowest channel



Middle channel

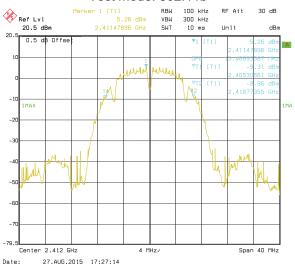


Highest channel

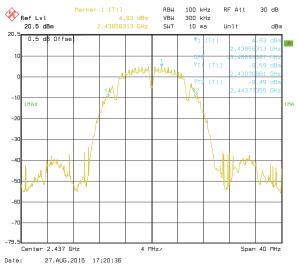


99% **OBW**

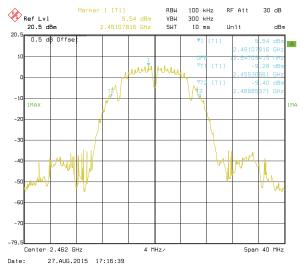
Test mode: 802.11b



Lowest channel

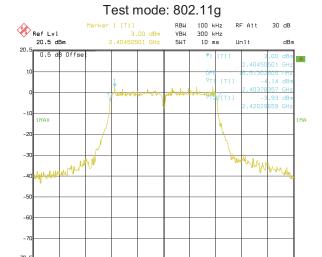


Middle channel



Highest channel



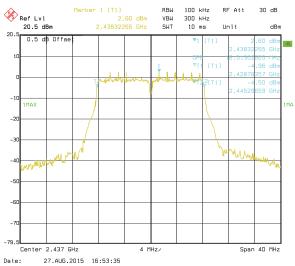




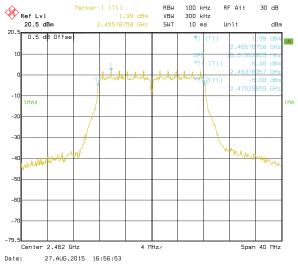
Span 40 MHz

Center 2.412 GHz

27.AUG.2015 16:48:58



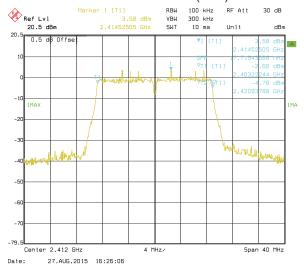
Middle channel



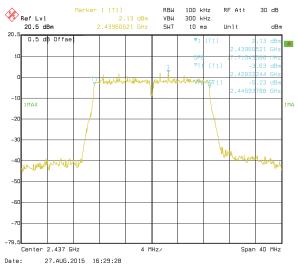
Highest channel



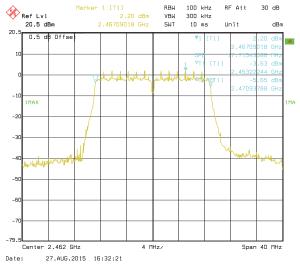
Test mode: 802.11n(H20)



Lowest channel



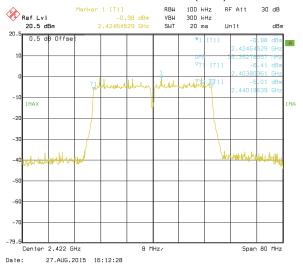
Middle channel



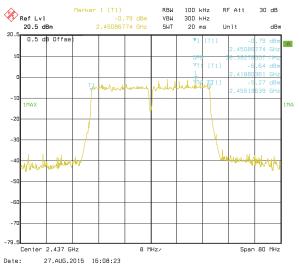
Highest channel



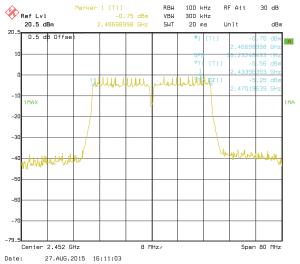
Test mode: 802.11n(H40)



Lowest channel



Middle channel



Highest channel





6.5 Power Spectral Density

Test Requirement:	FCC Part 15 C Section 15.247 (e)		
Test Method:	ANSI C63.10:2009 and KDB558074v03r03 section 10.2		
Limit:	8dBm		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 5.6 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Passed		

Measurement Data

Test CH	Power Spectral Density (dBm)			Limit(dBm)	Result	
	802.11b	802.11g	802.11n(H20)	802.11n(H40)	Limit(dBin)	rtesuit
Lowest	5.08	3.61	3.08	-0.06		
Middle	4.75	2.57	2.41	-0.58	8.00	Pass
Highest	5.48	1.93	1.52	-0.90		

Test plot as follows:



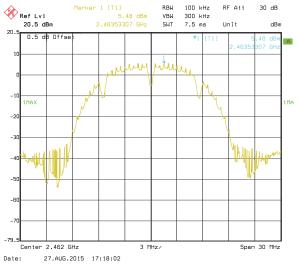




Lowest channel

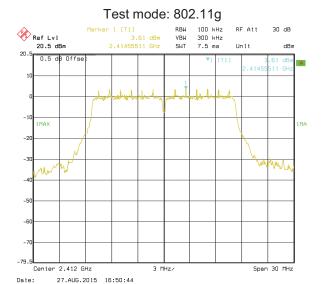


Middle channel



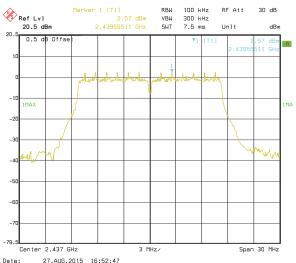
Highest channel



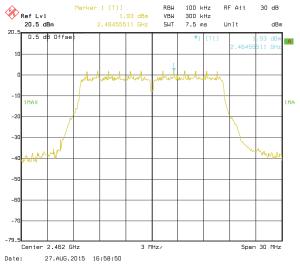


Lowest channel

Date:



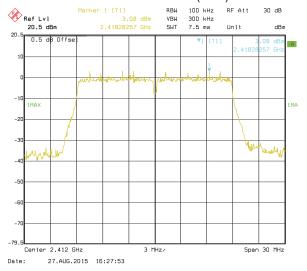
Middle channel



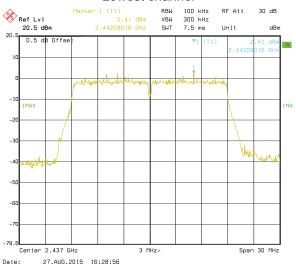
Highest channel



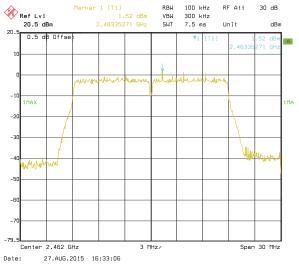
Test mode: 802.11n(H20)



Lowest channel



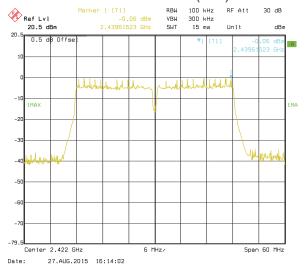
Middle channel



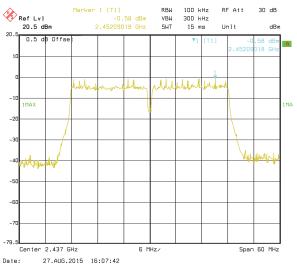
Highest channel



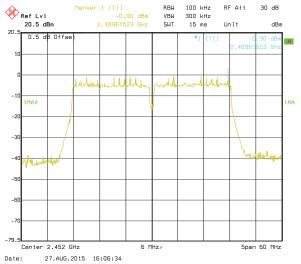
Test mode: 802.11n(H40)



Lowest channel



Middle channel



Highest channel





6.6 Band Edge

6.6.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)		
Test Method:	ANSI C63.10:2009 and KDB558074v03r03 section 13		
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table		
Toot Instruments:			
Test Instruments:	Refer to section 5.6 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Passed		

Test plot as follows:



