

FCC RADIO TEST REPORT

FCC ID: 2AJVKTAB9

Product: Tablet

Trade Name: Slide

Model Name: TAB9

Serial Model: N/A

Report No.: UNIA2018071023-2FR-01

Prepared for

Foto Electric Supply Co., INC.

1 Rewe St. Brooklyn, New York, Brooklyn, NY 11211, United States

Prepared by

Shenzhen United Testing Technology Co., Ltd.

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TEST RESULT CERTIFICATION

Applicant's name	Foto Electric Supply Co., INC.							
Address:	1 Rewe St. Brooklyn, New York, Brooklyn, NY 11211, United St	ates						
Manufacture's Name:	Foto Electric Supply Co., INC.							
Address:	1 Rewe St. Brooklyn, New York, Brooklyn, NY 11211, United St	tates						
Product description								
Product name:	Tablet							
Trade Mark:	Slide							
Model and/or type reference:	TAB9							
Standards:	FCC Rules and Regulations Part 15 Subpart C Section 15.247 ANSI C63.10: 2013							
Co., Ltd., and the test results with the FCC requirements. A report. This report shall not be repro-	has been tested by Shenzhen United Testing Technology show that the equipment under test (EUT) is in compliant and it is applicable only to the tested sample identified in the duced except in full, without the written approval of UNI, the revised by Shenzhen United Testing Technology Co., Ltd.	ce the						
personnel only, and shall be	noted in the revision of the document.							
Date of Test	<u>.</u>							
Date (s) of performance of tests.								
Date of Issue	Aug. 08, 2018							
Test Result	Pass							
Prepared by:	Kahn yang/Editor							
Reviewer:	Sherwin Qian/Supervisor							
Approved & Authorized Signe	er:Liuze/Manager							





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1. TEST SUMMARY

1.1 TEST PROCEDURES AND RESULTS

DESCRIPTION OF TEST	RESULT
CONDUCTED EMISSIONS TEST	COMPLIANT
RADIATED EMISSION TEST	COMPLIANT
BAND EDGE	COMPLIANT
OCCUPIED BANDWIDTH MEASUREMENT	COMPLIANT
POWER SPECTRAL DENSITY	COMPLIANT
PEAK OUTPUT POWER	COMPLIANT
OUT OF BAND EMISSIONS	COMPLIANT
ANTENNA REQUIREMENT	COMPLIANT

1.2 TEST FACILITY

Test Firm : Shenzhen United Testing Technology Co., Ltd.

Address : 2F, Annex Bldg, Jiahuangyuan Tech Park, #365 Baotian 1 Rd, Tiegang

Community, Xixiang Str, Bao'an District, Shenzhen, China

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19. The testing quality system of our laboratory meets with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

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

CNAS-LAB Code: L6494

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of testing Laboratories.

Designation Number: CN1227

Test Firm Registration Number: 674885

The 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 our files.

1.3 MEASUREMENT UNCERTAINTY

Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2 Radiated emission expanded uncertainty(9kHz-30MHz) = 3.08dB, k=2 Radiated emission expanded uncertainty(30MHz-1000MHz) = 4.42dB, k=2 Radiated emission expanded uncertainty(Above 1GHz) = 4.06dB, k=2



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Tablet				
Trade Mark	Slide				
Model Name	TAB9				
Serial No.	N/A				
Model Difference	N/A				
FCC ID	2AJVKTAB9				
Antenna Type	Internal Antenna				
Antenna Gain	0dBi				
Frequency Range	802.11b/g/n20: 2412~2462 MHz				
Number of Channels	802.11b/g/n20: 11CH				
Modulation Type	CCK, OFDM, DBPSK, DAPSK				
Battery	DC 3.7V, 3200mAh				
Dower Course	DC 3.7V from Battery or DC 12V from adapter with				
Power Source	AC 120(240)V/60Hz				
	M/N: U02				
Adapter Model	Input: AC 100-240V, 50/60Hz, 0.5A				
	Output: DC 5V, 2.1A				



2.2 Carrier Frequency of Channels

Channel List for 802.11b/g/n(20MHz)									
Channel	Channel Frequency (MHz) Channel			Channel	Frequency (MHz)	Channel	Frequency (MHz)		
01	2412	04	2427	07	2442	10	2457		
02	2417	05	2432	08	2447	11	2462		
03	2422	06	2437	09	2452	- 1			

2.3 Operation of EUT during testing

Operating Mode

The mode is used: Transmitting mode for 802.11b/g/n(20MHz)

Low Channel: 2412MHz Middle Channel: 2437MHz High Channel: 2462MHz

2.4 DESCRIPTION OF TEST SETUP

Operation of EUT during Conducted testing:



Operation of EUT during Radiation and Above1GHz Radiation testing:

EUT



2.5 MEASUREMENT INSTRUMENTS LIST

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1		CONDUCTED	EMISSIONS TEST		
1	AMN	Schwarzbeck	NNLK8121	8121370	2018.9.9
2 AMN		ETS	3810/2	00020199	2018.9.9
3	EMI TEST RECEIVER	Rohde&Schwarz	ESCI	101210	2018.9.9
4	AAN	TESEQ	T8-Cat6	38888	2018.9.9
20	17	RADIATED	EMISSION TEST		
1	Horn Antenna	Sunol	DRH-118	A101415	2018.9.29
2	BicoNlLog Antenna	Sunol	JB1 Antenna	A090215	2018.9.29
3	PREAMP	HP	8449B	3008A00160	2018.9.9
4	PREAMP	HP	8447D	2944A07999	2018.9.9
5	EMI TEST RECEIVER	Rohde&Schwarz	ESR3	101891	2018.9.9
6	VECTOR Signal Generator	Rohde&Schwarz	SMU200A	101521	2018.9.28
7	Signal Generator	Agilent	E4421B	MY4335105	2018.9.28
8	MXA Signal Analyzer	Agilent	N9020A	MY50510140	2018.9.28
9	MXA Signal Analyzer	Agilent	N9020A	MY51110104	2018.9.9
10	ANT Tower&Turn table Controller	Champro	EM 1000	60764	2018.9.28
11	Anechoic Chamber	Taihe Maorui	9m*6m*6m	966A0001	2018.9.9
12	Shielding Room	Taihe Maorui	6.4m*4m*3m	643A0001	2018.9.9
13	RF Power sensor	DARE	RPR3006W	15l00041SNO88	2019.3.14
14	RF Power sensor	DARE	RPR3006W	15l00041SNO89	2019.3.14
15	RF power divider	Anritsu	K241B	992289	2018.9.28
16	Wideband radio communication tester	Rohde&Schwarz	CMW500	154987	2018.9.28
17	Biconical antenna	Schwarzbeck	VHA 9103	91032360	2018.9.8
18	Biconical antenna	Schwarzbeck	VHA 9103	91032361	2018.9.8
19	Broadband Hybrid Antennas	Schwarzbeck	VULB9163	VULB9163#958	2018.9.8
20	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1680	2019.1.12
21	Active Receive Loop Antenna	Schwarzbeck	FMZB 1919B	00023	2018.11.02
22	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170651	2019.03.14
23	Microwave Broadband Preamplifier	Schwarzbeck	BBV 9721	100472	2018.10.24
24	Active Loop Antenna	Com-Power	AL-130R	10160009	2019.05.10
25	Power Meter	KEYSIGHT	N1911A	MY50520168	2019.05.10

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CONDUCTED EMISSIONS TEST

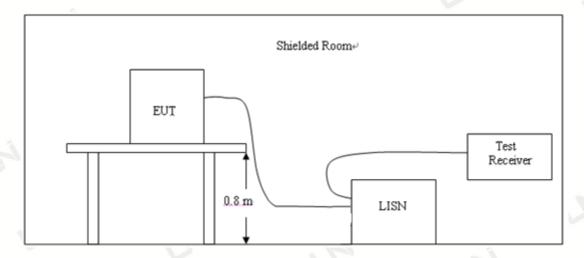
3.1 Conducted Power Line Emission Limit

For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following

Frequency	Maximum RF Line Voltage(dBμV)						
	CLA	SS A	CLASS B				
(MHz)	Q.P.	Ave.	Q.P.	Ave.			
0.15~0.50	79	66	66~56*	56~46*			
0.50~5.00	73	60	56	46			
5.00~30.0	73	60	60	50			

^{*} Decreasing linearly with the logarithm of the frequency
For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

3.2 Test Setup



3.3 Test Procedure

- 1, The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. A wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10
- 2, Support equipment, if needed, was placed as per ANSI C63.10.
- 3, All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4, If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5, All support equipments received AC power from a second LISN, if any.
- 6, The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7, Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.

3.4 Test Result

Pass

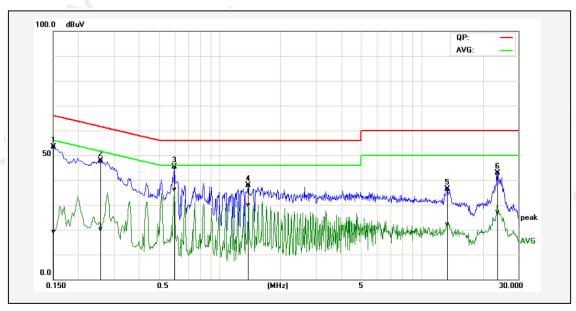
Remark:

- 1. All modes were tested at AC 120V and 240V, only the worst result of AC 120V was reported.
- 2. All modes were tested at Low, Middle, and High channel, only the worst result of 802.11b Low Channel was reported as below:





Temperature:	24°C	Relative Humidity:	46%				
Test Date:	Jul. 18, 2018	Pressure:	1010hPa				
Test Voltage:	AC 120V, 60Hz Phase: Line						
Test Mode:	t Mode: Transmitting mode of 802.11b 2412MHz						



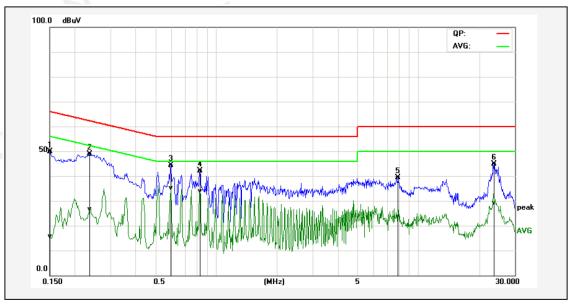
No.	Frequency	QuasiPeak	Average	Correction	QuasiPeak	Average	QuasiPeak	Average	QuasiPeak	Average	Remark
		reading	reading	factor	result	result	limit	limit	margin	margin	
\ <u> </u>	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1P	0.1500	45.18	11.05	8.15	53.33	19.20	65.99	56.00	-12.66	-36.80	Pass
2P	0.2580	37.75	10.01	10.06	47.81	20.07	61.49	51.50	-13.68	-31.43	Pass
3*	0.5980	35.24	26.05	10.01	45.25	36.06	56.00	46.00	-10.75	-9.94	Pass
4P	1.3860	27.77	19.72	10.18	37.95	29.90	56.00	46.00	-18.05	-16.10	Pass
5P	13.3540	26.28	11.94	10.21	36.49	22.15	60.00	50.00	-23.51	-27.85	Pass
6P	23.6660	32.42	16.65	10.58	43.00	27.23	60.00	50.00	-17.00	-22.77	Pass

Remark: Factor = Insertion Loss + Cable Loss, Result = Reading + Factor, Margin = Result - Limit.





Temperature:	24°C	Relative Humidity:	46%				
Test Date:	Jul. 18, 2018	Pressure:	1010hPa				
Test Voltage:	AC 120V, 60Hz Phase: Neutral						
Test Mode:	Transmitting mode of 802.11b 2412MHz						



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
1	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1P	0.1500	41.68	7.55	8.15	49.83	15.70	65.99	56.00	-16.16	-40.30	Pass
2P	0.2366	38.90	16.45	10.06	48.96	26.51	62.21	52.21	-13.25	-25.70	Pass
3*	0.5980	34.24	25.05	10.01	44.25	35.06	56.00	46.00	-11.75	-10.94	Pass
4P	0.8340	32.06	23.73	10.10	42.16	33.83	56.00	46.00	-13.84	-12.17	Pass
5P	7.9500	29.21	13.85	10.09	39.30	23.94	60.00	50.00	-20.70	-26.06	Pass
6P	23.6660	34.42	18.65	10.58	45.00	29.23	60.00	50.00	-15.00	-20.77	Pass

Remark: Factor = Insertion Loss + Cable Loss, Result = Reading + Factor, Margin = Result - Limit.



4 RADIATED EMISSION TEST

4.1 Radiation Limit

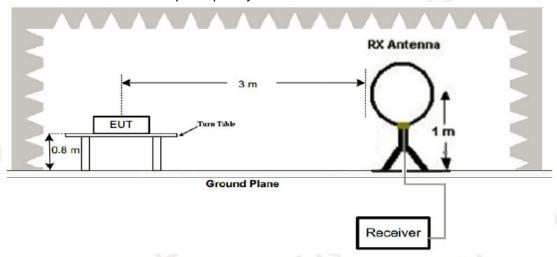
For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

	Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)
	30-88	3	40	100
	88-216	3	43.5	150
	216-960	3	46	200
Above 960		3	54	500

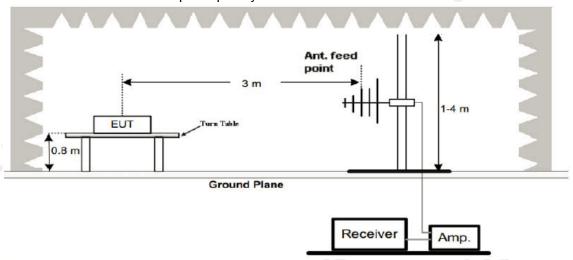
For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

4.2 Test Setup

1. Radiated Emission Test-Up Frequency Below 30MHz

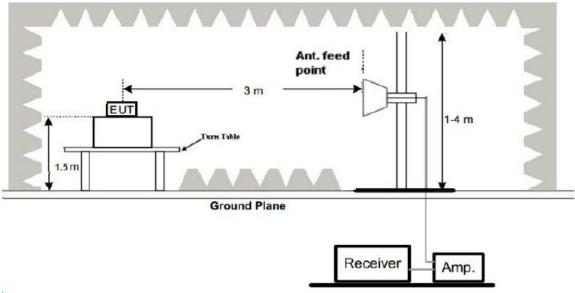


2. Radiated Emission Test-Up Frequency 30MHz~1GHz





3. Radiated Emission Test-Up Frequency Above 1GHz



4.3 Test Procedure

- 1. Below 1GHz measurement the EUT is placed on turntable which is 0.8m above ground plane. And above 1GHz measurement EUT was placed on low permittivity and low tangent turn table which is 1.5m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.
- 7. The test frequency range from 9KHz to 25GHz per FCC PART 15.33(a).

Note:

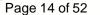
For battery operated equipment, the equipment tests shall be performed using a new battery.

4.4 Test Result

PASS

Remark:

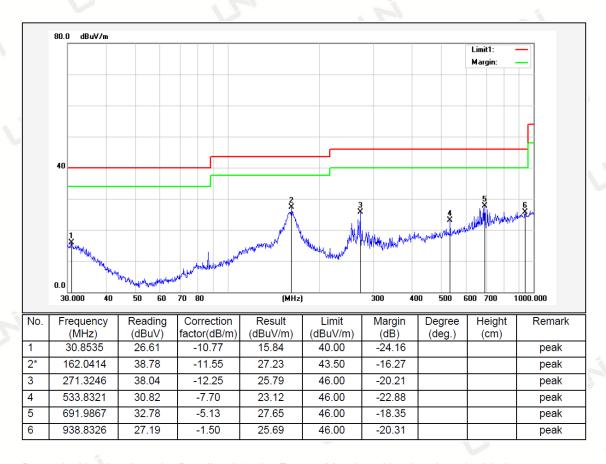
- 1. All modes of 802.11b/g/n20 were test at Low, Middle, and High channel, only the worst result of 802.11b Low Channel was reported for below 1GHz test.
- 2. By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that "Z axis" position was the worst, and test data recorded in this report.





Below 1GHz Test Results:

Temperature:	22°C	Relative Humidity:	46%
Test Date:	Jul. 18, 2018	Pressure:	1010hPa
Test Voltage:	AC 120V, 60Hz	Polarization:	Horizontal
Test Mode:	Transmitting mode of 802.11b 241	2MHz	

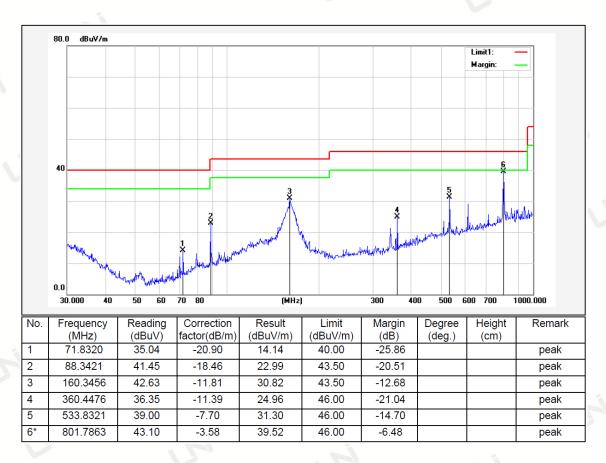


Remark: Absolute Level = Reading Level + Factor, Margin = Absolute Level - Limit Factor = Ant. Factor + Cable Loss - Pre-amplifier





Temperature:	22°C	Relative Humidity:	46%
Test Date:	Jul. 18, 2018	Pressure:	1010hPa
Test Voltage:	AC 120V, 60Hz	Polarization:	Vertical
Test Mode:	Transmitting mode of 802.11b 241	12MHz	17



Remark: Absolute Level = Reading Level + Factor, Margin = Absolute Level – Limit Factor = Ant. Factor + Cable Loss – Pre-amplifier

Remark:

- (1) Measuring frequencies from 9 KHz to the 1 GHz, Radiated emission test from 9KHz to 30MHz was verified, and no any emission was found except system noise floor.
- (2) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (3) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.





Above 1 GHz Test Results:

CH Low of 802.11b Mode (2412MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	58.98	-3.64	55.34	74	-18.66	PK
4824	48.37	-3.64	44.73	54	-9.27	AV
7236	56.82	-0.95	55.87	74	-18.13	PK
7236	46.37	-0.95	45.42	54	-8.58	AV

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Margin = Absolute Level - Limit

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	58.66	-3.64	55.02	74	-18.98	PK
4824	48.02	-3.64	44.38	54	-9.62	AV
7236	57.63	-0.95	56.68	74	-17.32	PK
7236	45.56	-0.95	44.61	54	-9.39	AV

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Margin = Absolute Level - Limit



CH Middle of 802.11b Mode (2437MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	59.16	-3.51	55.65	74	-18.35	PK
4874	49.33	-3.51	45.82	54	-8.18	AV
7311	57.60	-0.82	56.78	74	-17.22	PK
7311	47.12	-0.82	46.30	54	-7.70	AV
Remark: Fact	or = Antenna	Factor + Cable	e Loss – Pre-ampli	fier. Margin =	Absolute Le	vel – Limit

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	60.48	-3.51	56.97	74	-17.03	PK
4874	48.75	-3.51	45.24	54	-8.76	AV
7311	57.36	-0.82	56.54	74	-17.46	PK
7311	46.55	-0.82	45.73	54	-8.27	AV
		•				70.407

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Margin = Absolute Level - Limit



CH High of 802.11b Mode (2462MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4924	60.44	-3.43	57.01	74	-16.99	PK
4924	47.63	-3.43	44.20	54	-9.80	AV
7386	56.64	-0.75	55.89	74	-18.11	PK
7386	46.72	-0.75	45.97	54	-8.03	AV

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Margin = Absolute Level - Limit

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4924	61.34	-3.43	57.91	74	-16.09	PK
4924	48.05	-3.43	44.62	54	-9.38	AV
7386	57.33	-0.75	56.58	74	-17.42	PK
7386	47.08	-0.75	46.33	54	-7.67	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz •
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) Data of measurement within this frequency range shown "--- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.



CH Low of 802.11g Mode (2412MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	60.87	-3.64	57.23	74	-16.77	PK
4824	48.06	-3.64	44.42	54	-9.58	AV
7236	55.83	-0.95	54.88	74	-19.12	PK
7236	47.15	-0.95	46.20	54	-7.80	AV
The second		19.1				

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Margin = Absolute Level - Limit

Vertical:

Reading					
Result	Factor	Emission Level	Limits	Margin	Detector
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
61.11	-3.64	57.47	74	-16.53	PK
47.64	-3.64	44.00	54	-10.00	AV
54.93	-0.95	53.98	74	-20.02	PK
46.78	-0.95	45.83	54	-8.17	AV
	(dBµV) 61.11 47.64 54.93	(dBµV) (dB) 61.11 -3.64 47.64 -3.64 54.93 -0.95	(dBμV) (dB) (dBμV/m) 61.11 -3.64 57.47 47.64 -3.64 44.00 54.93 -0.95 53.98	Result (dBμV) (dB) (dBμV/m) (dBμV/m) 61.11 -3.64 57.47 74 47.64 -3.64 44.00 54 54.93 -0.95 53.98 74	(dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 61.11 -3.64 57.47 74 -16.53 47.64 -3.64 44.00 54 -10.00 54.93 -0.95 53.98 74 -20.02

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Margin = Absolute Level - Limit



CH Middle of 802.11g Mode (2437MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	61.35	-3.51	57.84	74	-16.16	PK
4874	47.92	-3.51	44.41	54	-9.59	AV
7311	56.15	-0.82	55.33	74	-18.67	PK
7311	47.22	-0.82	46.40	54	-7.60	AV
Remark: Fact	or = Antenna	Factor + Cable	e Loss – Pre-ampli	fier. Margin =	Absolute Le	vel – Limit

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	60.03	-3.51	56.52	74	-17.48	PK
4874	48.88	-3.51	45.37	54	-8.63	AV
7311	57.76	-0.82	56.94	74	-17.06	PK
7311	46.92	-0.82	46.10	54	-7.90	AV

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Margin = Absolute Level - Limit



CH High of 802.11g Mode (2462MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4924	60.34	-3.43	56.91	74	-17.09	PK
4924	48.16	-3.43	44.73	54	-9.27	AV
7386	56.24	-0.75	55.49	74	-18.51	PK
7386	46.27	-0.75	45.52	54	-8.48	AV

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Margin = Absolute Level - Limit

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4924	60.44	-3.43	57.01	74	-16.99	PK
4924	47.75	-3.43	44.32	54	-9.68	AV
7386	55.85	-0.75	55.10	74	-18.90	PK
7386	45.67	-0.75	44.92	54	-9.08	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz •
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) Data of measurement within this frequency range shown "--- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.



CH Low of 802.11n/H20 Mode (2412MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	60.95	-3.64	57.31	74	-16.69	PK
4824	47.74	-3.64	44.10	54	-9.90	AV
7236	55.37	-0.95	54.42	74	-19.58	PK
7236	45.85	-0.95	44.90	54	-9.10	AV
described to the second		10.1				

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Margin = Absolute Level - Limit

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	61.12	-3.64	57.48	74	-16.52	PK
4824	47.95	-3.64	44.31	54	-9.69	AV
7236	56.05	-0.95	55.10	74	-18.90	PK
7236	46.11	-0.95	45.16	54	-8.84	AV

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Margin = Absolute Level - Limit



CH Middle of 802.11n/H20 Mode (2437MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	60.15	-3.51	56.64	74	-17.36	PK
4874	46.82	-3.51	43.31	54	-10.69	AV
7311	56.45	-0.82	55.63	74	-18.37	PK
7311	46.05	-0.82	45.23	54	-8.77	AV
Remark: Fact	or = Antenna	Factor + Cabl	e Loss – Pre-ampli	fier. Margin =	Absolute Le	vel – Limit

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	61.07	-3.51	57.56	74	-16.44	PK
4874	46.26	-3.51	42.75	54	-11.25	AV
7311	57.19	-0.82	56.37	74	-17.63	PK
7311	45.71	-0.82	44.89	54	-9.11	AV
						70.00

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Margin = Absolute Level - Limit



CH High of 802.11n/H20 Mode (2462MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4924	61.32	-3.43	57.89	74	-16.11	PK
4924	47.47	-3.43	44.04	54	-9.96	AV
7386	55.84	-0.75	55.09	74	-18.91	PK
7386	45.73	-0.75	44.98	54	-9.02	AV

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Margin = Absolute Level - Limit

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4924	60.61	-3.43	57.18	74	-16.82	PK
4924	48.03	-3.43	44.60	54	-9.40	AV
7386	56.62	-0.75	55.87	74	-18.13	PK
7386	46.19	-0.75	45.44	54	-8.56	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz •
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) Data of measurement within this frequency range shown "--- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.

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5 BAND EDGE

5.1 Limits

FCC PART 15.247 Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

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5.2 Test Procedure

The band edge compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW to 100KHz and VBM to 300KHz to measure the peak field strength and set RBW to 1MHz and VBW to 10Hz to measure the average radiated field strength. The conducted RF band edge was measured by using a spectrum analyzer. Set span wide enough to capture the highest in-band emission and the emission at the band edge. Set RBW to 100 KHz and VBW to 300 KHz, to measure the conducted peak band edge.

5.3 Test Result

PASS

Operation Mode: 802.11b Mode TX CH Low (2412MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2310	55.92	-5.81	50.11	74	-23.89	PK
2310	/	-5.81		54	/	AV
2390	64.14	-5.84	58.30	74	-15.70	PK
2390	48.93	-5.84	43.09	54	-10.91	AV
						4

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Vertical:

	Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
	2310	56.02	-5.81	50.21	74	-23.79	PK
	2310	1	-5.81		54	1	AV
	2390	65.17	-5.84	59.33	74	-14.67	PK
	2390	49.52	-5.84	43.68	54	-10.32	AV
ŀ				13			



Operation Mode: 802.11b Mode TX CH High (2462MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре			
2483.5	56.32	-5.65	50.67	74	-23.33	PK			
2483.5	/	-5.65	1	54	1	AV			
2500	58.09	-5.72	52.37	74	-21.63	PK			
2500	1	-5.72	1	54	/	AV			
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.									

Vertical:

Fre	equency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2	483.5	55.84	-5.65	50.19	74	-23.81	PK
2	483.5	1	-5.65	1	54	/	AV
p.i	2500	56.32	-5.72	50.60	74	-23.40	PK
	2500		-5.72		54	/	AV



Operation Mode: 802.11g Mode TX CH Low (2412MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
2310	56.94	-5.81	51.13	74	-22.87	PK	
2310	/	-5.81	/	54	1	AV	
2390	65.75	-5.84	59.91	74	-14.09	PK	
2390	49.03	-5.84	43.19	54	-10.81	AV	
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.							

Vertical:

Reading Result	Factor	Emission Level	Limits	Margin	Detector
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
57.03	-5.81	51.22	74	-22.78	PK
1	-5.81	/	54	/	AV
64.16	-5.84	58.32	74	-15.68	PK
47.69	-5.84	41.85	54	-12.15	AV
	(dBµV) 57.03 / 64.16	(dBµV) (dB) 57.03 -5.81 / -5.81 64.16 -5.84	(dBμV) (dB) (dBμV/m) 57.03 -5.81 51.22 / -5.81 / 64.16 -5.84 58.32	(dBμV) (dB) (dBμV/m) (dBμV/m) 57.03 -5.81 51.22 74 / -5.81 / 54 64.16 -5.84 58.32 74	(dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 57.03 -5.81 51.22 74 -22.78 / -5.81 / 54 / 64.16 -5.84 58.32 74 -15.68



Operation Mode: 802.11g Mode TX CH High (2462MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2483.5	57.13	-5.65	51.48	74	-22.52	PK
2483.5	/	-5.65	/	54	1	AV
2500	57.68	-5.72	51.96	74	-22.04	PK
2500	/	-5.72	1	54	/	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2483.5	56.90	-5.65	51.25	74	-22.75	PK
2483.5	/	-5.65	1	54	/	AV
2500	58.07	-5.72	52.35	74	-21.65	PK
2500		-5.72		54	/	AV



Operation Mode: 802.11n/H20 Mode TX CH Low (2412MHz)

Horizontal:

Reading Result	Factor	Emission Level	Limits	Margin	Detector
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
57.22	-5.81	51.41	74	-22.59	PK
1	-5.81	/	54	/	AV
66.37	-5.84	60.53	74	-13.47	PK
50.12	-5.84	44.28	54	-9.72	AV
	(dBµV) 57.22 / 66.37	(dBμV) (dB) 57.22 -5.81 / -5.81 66.37 -5.84	(dBμV) (dB) (dBμV/m) 57.22 -5.81 51.41 / -5.81 / 66.37 -5.84 60.53	(dBμV) (dB) (dBμV/m) (dBμV/m) 57.22 -5.81 51.41 74 / -5.81 / 54 66.37 -5.84 60.53 74	(dBμV) (dB) (dBμV/m) (dBμV/m) (dB) 57.22 -5.81 51.41 74 -22.59 / -5.81 / 54 / 66.37 -5.84 60.53 74 -13.47

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2310	56.49	-5.81	50.68	74	-23.32	PK
2310	,	-5.81	1	54	/	AV
2390	65.07	-5.84	59.23	74	-14.77	PK
2390	49.80	-5.84	43.96	54	-10.04	AV



Operation Mode: 802.11n/H20 Mode TX CH High (2462MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2483.5	56.35	-5.65	50.70	74	-23.30	PK
2483.5	/	-5.65	/	54	1	AV
2500	58.00	-5.72	52.28	74	-21.72	PK
2500	1	-5.72	<i>y</i> 1	54	/	AV
- 4 -		0			•	

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2483.5	57.31	-5.65	51.66	74	-22.34	PK
2483.5	/	-5.65	1	54	/	AV
2500	57.44	-5.72	51.72	74	-22.28	PK
2500		-5.72		54	/	AV

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6 OCCUPIED BANDWIDTH MEASUREMENT

6.1 Test Limit

FCC Part15(15.247), Subpart C							
Section	Test Item	Limit	Frequency Range (MHz)	Result			
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS			

6.2 Test Procedure

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Set EUT as normal operation.
- 3. Based on FCC Part15 C Section 15.247: RBW=100KHz, VBW=300KHz.
- 4. The useful radiated emission from the EUT was detected by the spectrum analyzer with peak detector.

6.3 Measurement Equipment Used

Same as Radiated Emission Measurement

6.4 Test Result

PASS

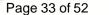




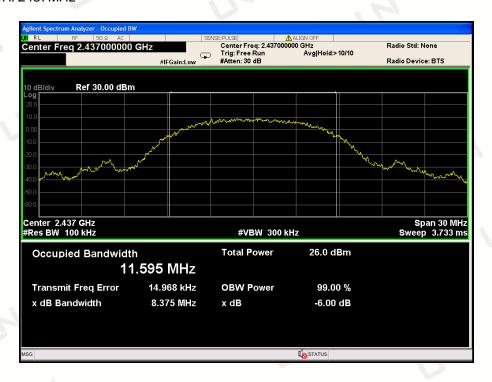
	TX 802.11b Mode							
Frequency (MHz)	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result					
2412	8.814	>=500KHz	PASS					
2437	8.375	>=500KHz	PASS					
2462	8.365	>=500KHz	PASS					

CH: 2412MHz

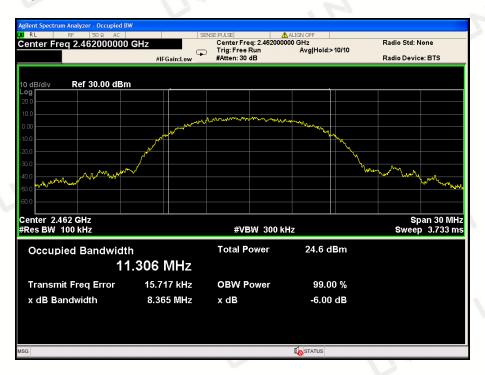




CH: 2437MHz



CH: 2462MHz



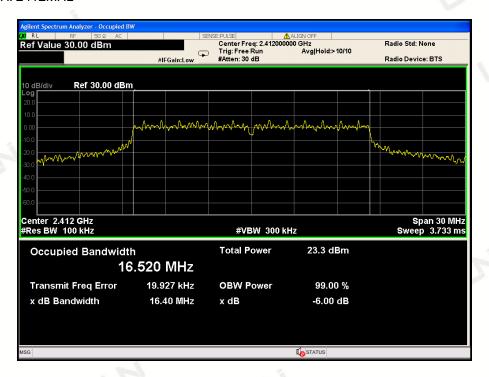


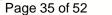




	TX 802.11g Mode							
Frequency (MHz)	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result					
2412	16.40	>=500KHz	PASS					
2437	16.42	>=500KHz	PASS					
2462	16.42	>=500KHz	PASS					

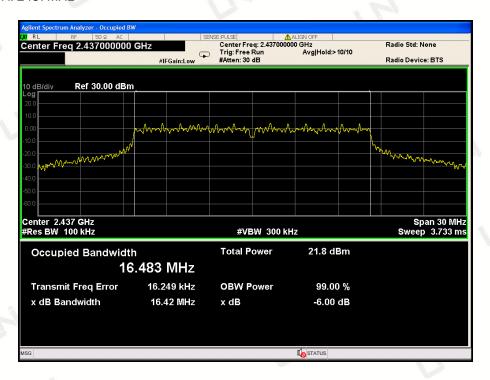
CH: 2412MHz



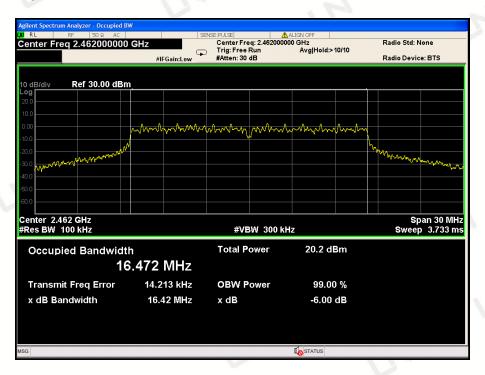




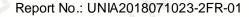
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CH: 2462MHz



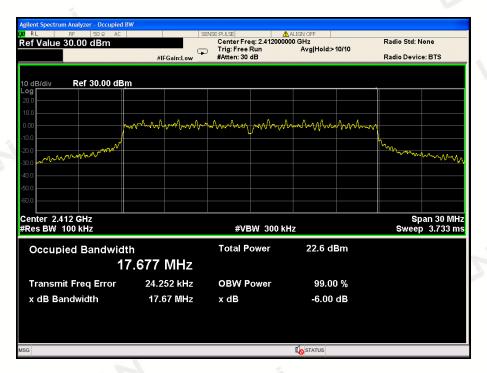


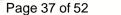




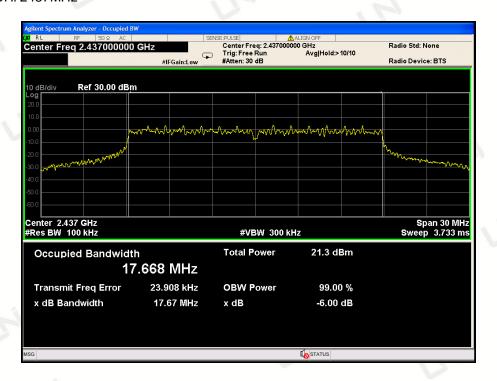
TX 802.11n/HT20 Mode							
Frequency (MHz)	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result				
2412	17.67	>=500KHz	PASS				
2437	17.67	>=500KHz	PASS				
2462	17.68	>=500KHz	PASS				

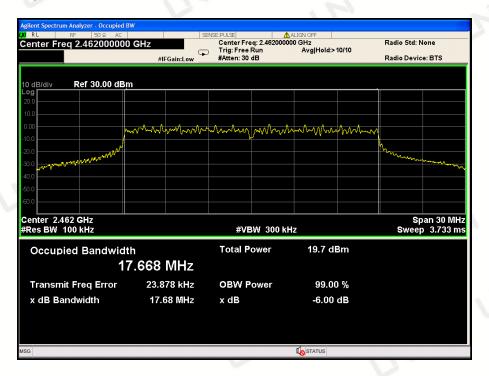
CH: 2412MHz











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7 POWER SPECTRAL DENSITY TEST

7.1 Test Limit

FCC Part15(15.247), Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

7.2 Test Procedure

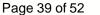
- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Set EUT as normal operation.
- 3. Based on FCC Part15 C Section 15.247: RBW=3KHz, VBW=10KHz.
- 4. The useful radiated emission from the EUT was detected by the spectrum analyzer with peak detector.

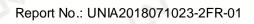
7.3 Measurement Equipment Used

Same as Radiated Emission Measurement

7.4 Test Result

PASS

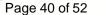




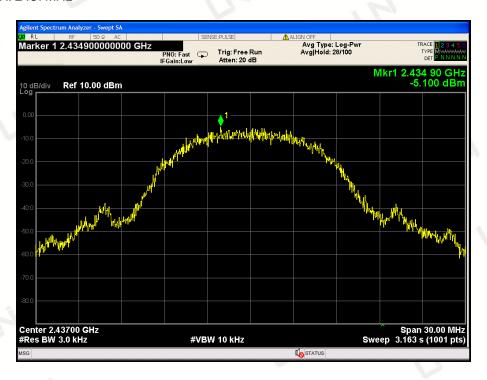


TX 802.11b Mode				
Frequency (MHz)	Power Density (dBm/3KHz)	Limit (dBm/3KHz)	Result	
2412	-4.341	8	PASS	
2437	-5.100	8	PASS	
2462	-6.466	8	PASS	

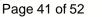








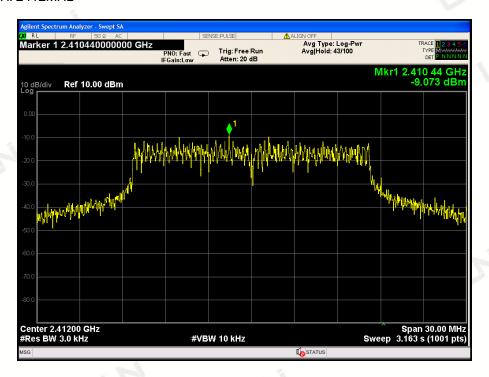


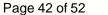




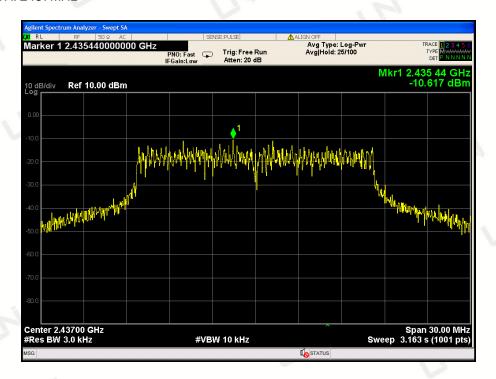


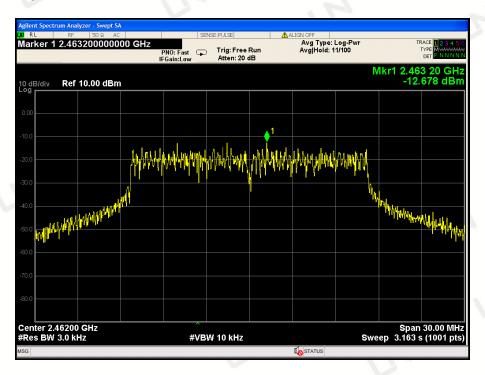
TX 802.11g Mode				
Frequency (MHz)	Power Density (dBm/3KHz)	Limit (dBm/3KHz)	Result	
2412	-9.073	8	PASS	
2437	-10.617	8	PASS	
2462	-12.678	8	PASS	

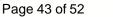






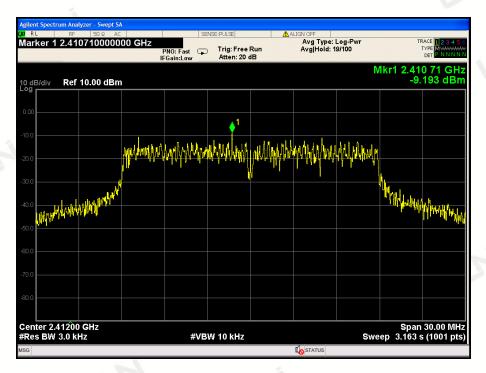


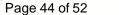




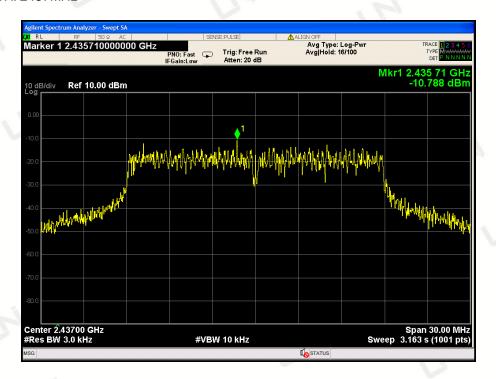


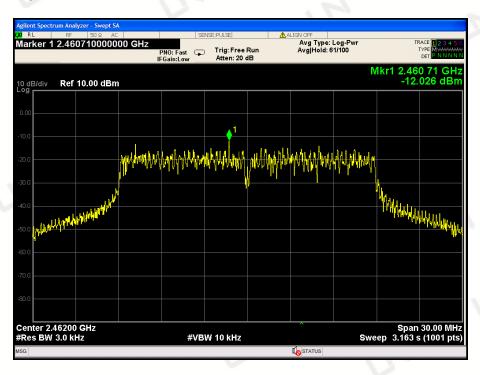
TX 802.11n/HT20 Mode				
Frequency (MHz)	Power Density (dBm/3KHz)	Limit (dBm/3KHz)	Result	
2412	-9.193	8	PASS	
2437	-10.788	8	PASS	
2462	-12.026	8	PASS	











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8 PEAK OUTPUT POWER TEST

8.1 Test Limit

FCC Part15(15.247), Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

8.2 Test Procedure

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. The EUT was directly connected to the Power meter.

8.3 Measurement Equipment Used

Same as Radiated Emission Measurement

8.4 Test Result

PASS

All the test modes completed for test.

		TX 802.11b Mode	i Ni			
Test	Frequency	Maximum Peak Conducted Output Power	LIMIT			
Channel	(MHz)	(dBm)	(dBm)			
CH01	2412	8.86	30			
CH06	2437	8.78	30			
CH11	2462	8.77	30			
	TX 802.11g Mode					
CH01	2412	8.33	30			
CH06	2437	8.28	30			
CH11	2462	8.27	30			
TX 802.11n20 Mode						
CH01	2412	7.58	30			
CH06	2437	7.62	30			
CH11	2462	7.60	30			

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9 OUT OF BAND EMISSIONS TEST

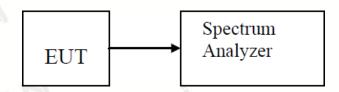
9.1 Test Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

9.2 Test Procedure

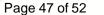
- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Set EUT as TX operation and connect directly to the spectrum analyzer.
- 3. Based on FCC Part15 C Section 15.247: RBW=100KHz, VBW=300KHz.
- 4. Set detected by the spectrum analyzer with peak detector.

9.3 Test Setup



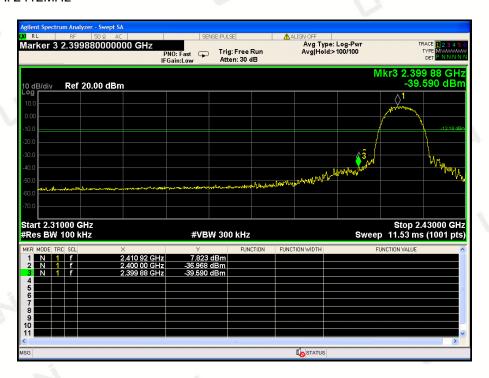
9.4 Test Result

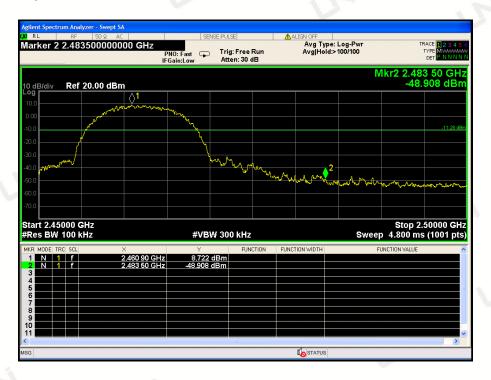
PASS

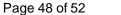




TX 802.11b Mode CH: 2412MHz

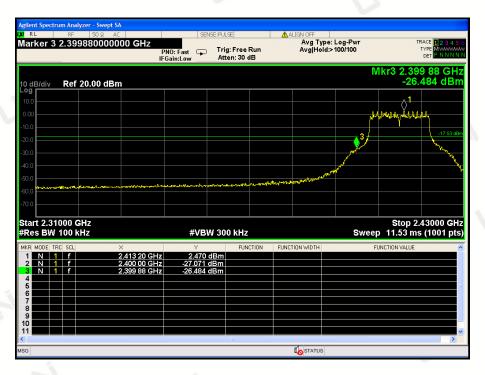




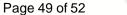


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TX 802.11g Mode CH: 2412MHz

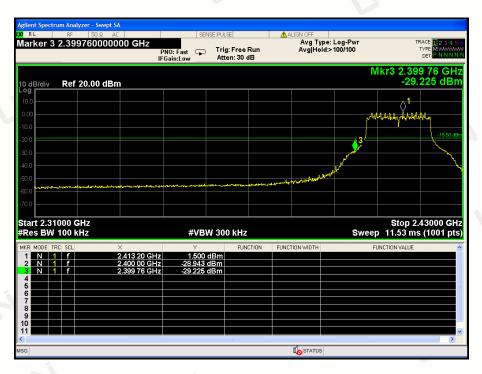


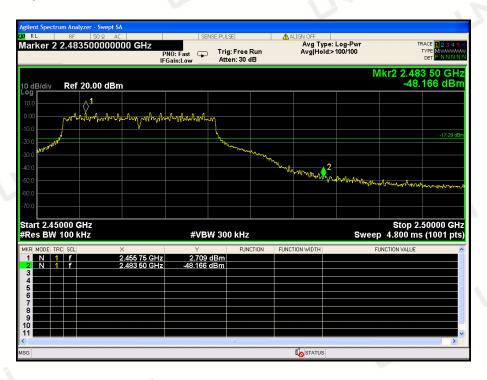




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TX 802.11n/HT20 Mode CH: 2412MHz





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10 ANTENNA REQUIREMENT

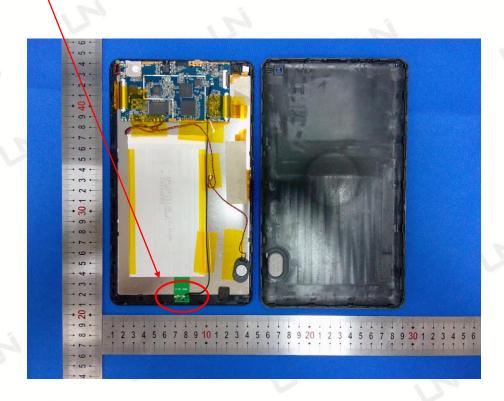
Standard Applicable:

For intentional device, according to FCC 47 CFR Section 15.203, 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.

Antenna Connected Construction

The antenna used in this product is an Internal Antenna, The directional gains of antenna used for transmitting is 0dBi.

ANTENNA:



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11 PHOTOGRAPH OF TEST

11.1 Radiated Emission







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11.2 Conducted Emission



End of Report