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Report No.: UNIA2018080606FR-01



FCC RADIO TEST REPORT

FCC ID: 2AQSTKB-IMW6020

Product: Wireless Keyboard

Trade Name: iMicro

Model Name: KB-IMW6020

Serial Model: KB-IMW106, KB-IMW103, KB-IMW9819

Report No.: UNIA2018080606FR-01

Prepared for

iMicro Inc.

2075 N. Capitol Avenue, San Jose, CA 96132, United States

Prepared by

Shenzhen United Testing Technology Co., Ltd.

2F, Annex Bldg, Jiahuangyuan Tech Park, #365 Baotian 1 Rd, Tiegang Community, Xixiang Str, Bao'an District, Shenzhen, China





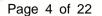
TEST RESULT CERTIFICATION

Applicant's name:	iMicro Ind	Э.		
Address:	2075 N. (Capitol Avenue, Sa	n Jose, CA 96132, L	Inited States
Manufacture's Name:	iMicro Ele	ecttronics(ShenZhe	en)Co.,Ltd	
Address:		A3 No.608 FengTa loan District Shenz	ng Road, TangWei V hen	illage, Fuyong
Product description				
Product name:	Wireless	Keyboard		
Trade Mark:	iMicro			
Model and/or type reference .:	KB-IMW6	6020, KB-IMW106,	KB-IMW103, KB-IM	W9819
Standards:		es and Regulations 3.10: 2013	Part 15 Subpart C S	Section 15.249
This device described above Co., Ltd., and the test results with the FCC requirements. A report. This report shall not be reprodocument may be altered or personnel only, and shall be	show that And it is a duced ex revised b noted in t	at the equipment applicable only to accept in full, without Shenzhen Unit	under test (EUT) is the tested sample ut the written appr ed Testing Techno	s in compliance identified in the oval of UNI, this
Date of Test		A	Con 44 0040	
Date (s) of performance of tests. Date of Issue		Aug. 06, 2018 ~ \$ Sep. 14, 2018	sep. 14, 2018	
Test Result		Pass		
		Ka	In Young	
Prepared by:	_		yang/Editor	<u> </u>
Reviewer:	-	3 1000	Lot ortal	The state of the s
		Sherwin	Dian/Supervisor	
Approved & Authorized Signe	er: _	Đ.		
		_Liuz	ze/Manager	





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1. TEST SUMMARY

1.1 TEST PROCEDURES AND RESULTS

DESCRIPTION OF TEST

CONDUCTED EMISSIONS TEST

RADIATED EMISSION TEST

BAND EDGE

OCCUPIED BANDWIDTH MEASUREMENT

ANTENNA REQUIREMENT

RESULT

N/A

COMPLIANT

COMPLIANT

COMPLIANT

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 Page 5 of 22

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2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

ENLINAL DESCRIPTION O	201
Equipment	2.4G Wireless Keyboard
Trade Mark	iMicro
Model Name	KB-IMW6020
Serial No.	KB-IMW106, KB-IMW103, KB-IMW9819
	All model's the function, software and electric circuit are the
Model Difference	same, only with a product color and model named different.
	Test sample model: KB-IMW6020.
FCC ID	2AQSTKB-IMW6020
Antenna Type	PCB Antenna
Antenna Gain	2dBi
Operation frequency	2408MHz-2474MHz
Number of Channels	34
Modulation Type	FSK
Battery	AAA Battery*1
Power Source	DC 1.5V of AAA Battery*1
Adapter Model	N/A





2.2 Carrier Frequency of Channels

a i			Chann	el List			
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2408	10	2426	19	2444	28	2462
2	2410	11	2428	20	2446	29	2464
3	2412	12	2430	21	2448	30	2466
4	2414	13	2432	22	2450	31	2468
5	2416	14	2434	23	2452	32	2470
6	2418	15	2436	24	2454	33	2472
7	2420	16	2438	25	2456	34	2474
8	2422	17	2440	26	2458		1
9	2424	18	2442	27	2460		

2.3 Operation of EUT during testing

Operating Mode

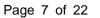
The mode is used: Transmitting mode

Low Channel: 2408MHz Middle Channel: 2440MHz High Channel: 2474MHz

2.4 DESCRIPTION OF TEST SETUP

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	2019.9.10
2	AMN	ETS	3810/2	00020199	2019.9.10
3	EMI TEST RECEIVER	Rohde&Schwarz	ESCI	101210	2019.9.10
4	AAN	TESEQ	T8-Cat6	38888	2019.9.10
	11	RADIATED E	EMISSION TEST		
1	Horn Antenna	Sunol	DRH-118	A101415	2018.9.29
2	BicoNILog Antenna	Sunol	JB1 Antenna	A090215	2018.9.29
3	PREAMP	HP	8449B	3008A00160	2019.9.10
4	PREAMP	HP	8447D	2944A07999	2019.9.10
5	EMI TEST RECEIVER	Rohde&Schwarz	ESR3	101891	2019.9.10
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	2019.9.10
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	2019.9.10
13	RF Power sensor	DARE	RPR3006W	15I00041SNO88	2019.3.14
14	RF Power sensor	DARE	RPR3006W	15I00041SNO89	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	2019.9.10
18	Biconical antenna	Schwarzbeck	VHA 9103	91032361	2019.9.10
19	Broadband Hybrid Antennas	Schwarzbeck	VULB9163	VULB9163#958	2019.9.10
20	Horn Antenna	Schwarzbeck	BBHA9120D	1680	2019.5.10
21	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170651	2019.3.14
22	Microwave Broadband Preamplifier	Schwarzbeck	BBV 9721	100472	2018.10.24
23	Active Loop Antenna	Com-Power	AL-130R	10160009	2019.5.10
24	Power Meter	KEYSIGHT	N1911A	MY50520168	2019.5.10



CONDUCTED EMISSIONS TEST

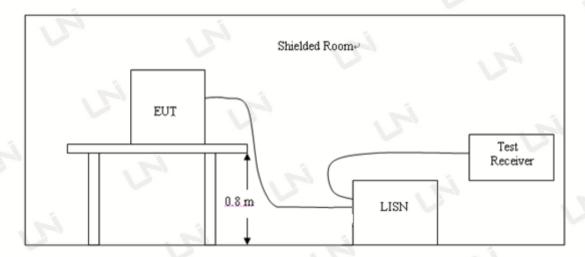
3.1 Conducted Power Line Emission Limit

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

	Maximum RF Line Voltage(dBμV)					
Frequency	CLASS A dBμV		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. The EUT is placed on 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

N/A

Remark: The EUT is powered by DC 1.5V of an AA battery.

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4 RADIATED EMISSION TEST

4.1 Radiation Limit

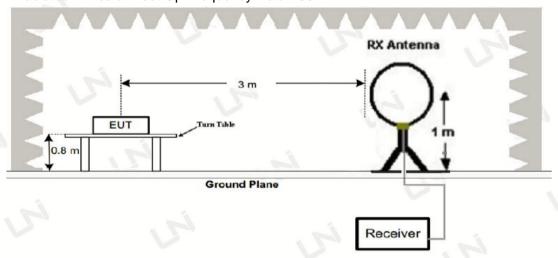
For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

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

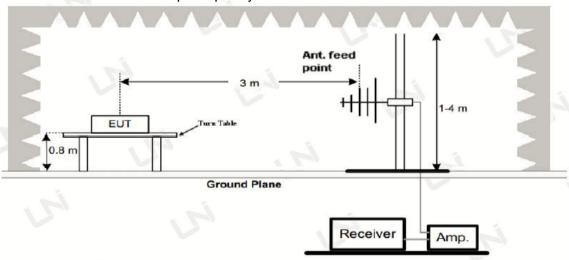
For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

4.2 Test Setup

1. Radiated Emission Test-Up Frequency Below 30MHz



Radiated Emission Test-Up Frequency 30MHz~1GHz

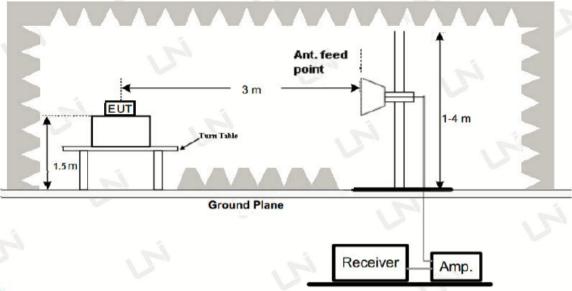


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3. Radiated Emission Test-Up Frequency Above 1GHz



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).

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

4.4 Test Result

PASS

Remark:

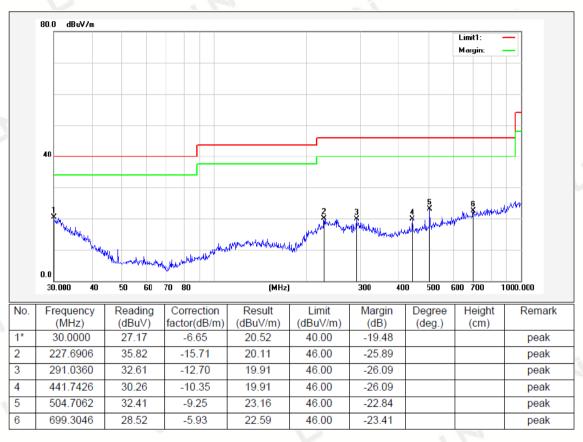
- 1. All modes were tested, only the worst result of the Low channel 2408MHz was reported.
- 2. By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that "Z axis" position was the worst, and test data recorded in this report.
- 3. Radiated emission test from 9KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9KHz to 30MHz and not recorded in this report.





Below 1GHz Test Results:

Temperature:	25°C	Relative Humidity:	48%
Test Date:	Sep. 12, 2018	Pressure:	1010hPa
Test Voltage:	DC 1.5V	Polarization:	Horizontal
Test Mode:	Transmitting mode of 2408MHz		



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



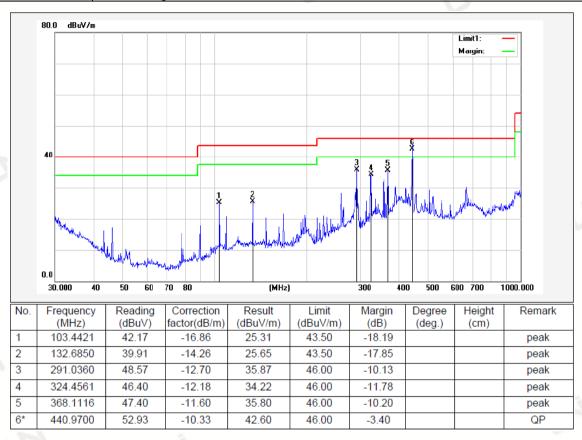


Temperature: 25°C Relative Humidity: 48%

Test Date: Sep. 12, 2018 Pressure: 1010hPa

Test Voltage: DC 1.5V Polarization: Vertical

Test Mode: Transmitting mode of 2408MHz



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 (2408MHz)

Horizontal:

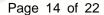
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2408	106.57	-5.71	100.86	114	-13.14	peak
2408	92.61	-5.71	86.9	94	-7.10	AVG
4816	56.12	-3.51	52.61	74	-21.39	peak
4816	47.37	-3.51	43.86	54	-10.14	AVG
7224	57.19	-0.82	56.37	74	-17.63	peak
7224	48.62	-0.82	47.8	54	-6.2	AVG

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
2408	106.84	-5.71	101.13	114	-12.87	peak
2408	93.08	-5.71	87.37	94	-6.63	AVG
4816	56.55	-3.51	53.04	74	-20.96	peak
4816	47.80	-3.51	44.29	54	-9.71	AVG
7224	57.49	-0.82	56.67	74	-17.33	peak
7224	48.83	-0.82	48.01	54	-5.99	AVG

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





CH Middle (2440MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2440	105.88	-5.71	100.17	114	-13.83	peak
2440	91.37	-5.71	85.66	94	-8.34	AVG
4880	55.72	-3.51	52.21	74	-21.79	peak
4880	46.85	-3.51	43.34	54	-10.66	AVG
7320	56.38	-0.82	55.56	74	-18.44	peak
7320	47.15	-0.82	46.33	54	-7.67	AVG

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
2440	106.03	-5.71	100.32	114	-13.68	peak
2440	91.51	-5.71	85.8	94	-8.20	AVG
4880	55.84	-3.51	52.33	74	-21.67	peak
4880	46.45	-3.51	42.94	54	-11.06	AVG
7320	56.47	-0.82	55.65	74	-18.35	peak
7320	47.69	-0.82	46.87	54	-7.13	AVG

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



Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2474	105.53	-5.65	99.88	114	-14.12	peak
2474	90.80	-5.65	85.15	94	-8.85	AVG
4948	55.04	-3.43	51.61	74	-22.39	peak
4948	46.26	-3.43	42.83	54	-11.17	AVG
7422	55.87	-0.75	55.12	74	-18.88	peak
7422	46.74	-0.75	45.99	54	-8.01	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit						

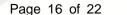
Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2474	105.70	-5.65	100.05	114.00	-13.95	peak
2474	91.00	-5.65	85.35	94.00	-8.65	AVG
4948	55.25	-3.43	51.82	74.00	-22.18	peak
4948	46.53	-3.43	43.10	54.00	-10.90	AVG
7422	56.41	-0.75	55.66	74.00	-18.34	peak
7422	47.05	-0.75	46.30	54.00	-7.70	AVG

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.
- (7) All modes of operation were investigated and the worst-case emissions are reported.





5 BAND EDGE

5.1 Limits

FCC PART 15.249(d) 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.

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

Radiated Band Edge Test:

Operation Mode: TX CH Low (2408MHz)

Horizontal (Worst case):

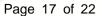
1101120111011					100	(II)
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
2310	49.65	-5.81	43.84	74	-30.16	peak
2310	/	-5.81	1	54	1	AVG
2390	50.32	-5.84	44.48	74	-29.52	peak
2390	1	-5.84	/	54	/	AVG
					The second second	

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	49.83	-5.81	44.02	74	-29.98	peak
2310	/	-5.81	1	54	/	AVG
2390	50.77	-5.84	44.93	74	-29.07	peak
2390		-5.84	1	54	/	AVG

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





Operation Mode: TX CH High (2474MHz)

Horizontal (Worst case):

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2483.5	52.43	-5.65	46.78	74	-27.22	peak
2483.5	/	-5.65	1	54	/	AVG
2500	53.14	-5.72	47.42	74	-26.58	peak
2500	/	-5.72		54	/	AVG
	•	·	•			

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
2483.5	52.34	-5.65	46.69	74	-27.31	peak
2483.5	/	-5.65	1	54	/	AVG
2500	52.96	-5.72	47.24	74	-26.76	peak
2500		-5.72		54	/	AVG

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

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6 OCCUPIED BANDWIDTH MEASUREMENT

6.1 Test Setup

Same as Radiated Emission Measurement

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 ANSI C63.10 section 6.9.2: RBW=30KHz, VBW=100KHz, Span=2MHz.
- 4. The useful radiated emission from the EUT was detected by the spectrum analyser with peak detector.

6.3 Measurement Equipment Used

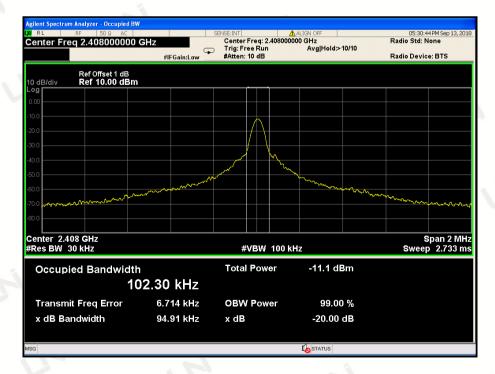
Same as Radiated Emission Measurement

6.4 Test Result

PASS

Frequency (MHz)	20dB Bandwidth (MHz)	Result
2408	0.095	PASS
2440	0.095	PASS
2474	0.095	PASS

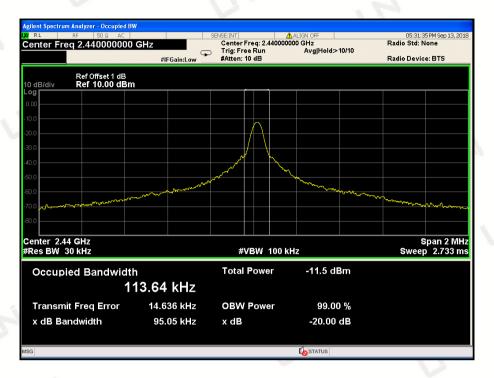
CH: 2408MHz



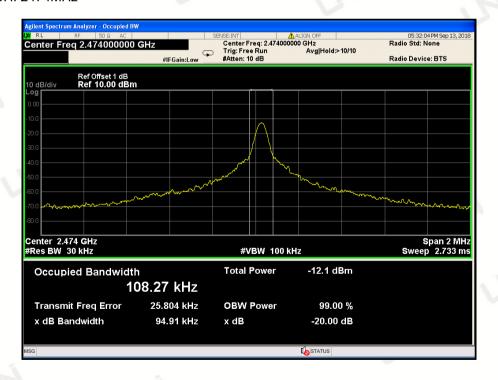




CH: 2440MHz



CH: 2474MHz



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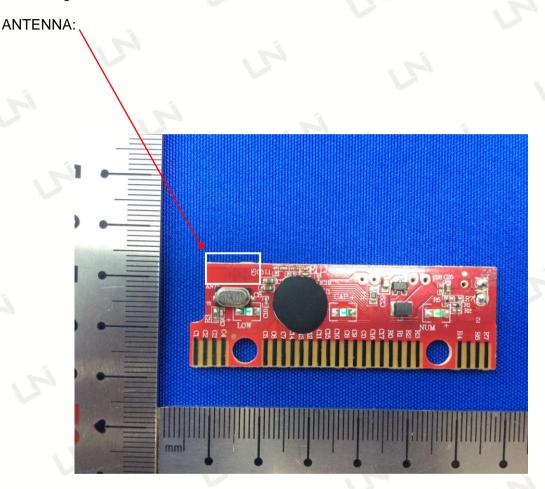
7 ANTENNA REQUIREMENT

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 a PCB Antenna. The directional gains of antenna used for transmitting is 2dBi.



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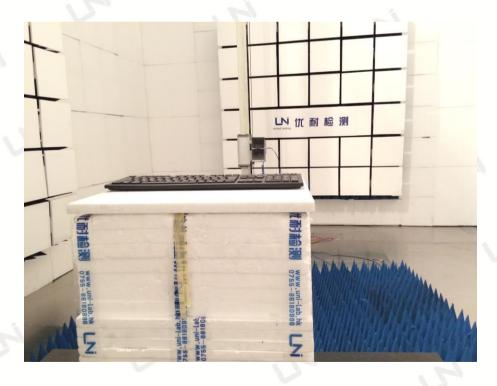
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8 PHOTOGRAPH OF TEST

8.1 Radiated Emission









N/A

End of Report