

FCC TEST REPORT

Test report On Behalf of REXING INC. For Dash Camera Model No.: V1 Max

FCC ID: 2AW5W-V1MAX

Prepared For : REXING INC.

264 Quarry Rd., Unit D Milford, Connecticut 06460 United States

Prepared By :

Shenzhen HUAK Testing Technology Co., Ltd. 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

 Date of Test:
 Aug. 13, 2021 ~Sept. 02, 2021

 Date of Report:
 Sept. 02, 2021

 Report Number:
 HK2108132884-E

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TEST RESULT CERTIFICATION

Applicant's name:	REXING INC.
Address:	264 Quarry Rd., Unit D Milford, Connecticut 06460 United States
Manufacture's Name:	KA FUNG TECHNOLOGY CO LIMITED
Address	Rm. 202, C5 Building, Hengfeng Industry Park, No.739 Zhoushi Rd., Hangcheng Subdistrict, Bao'an Dist., Shenzhen China
Product description	
Trade Mark:	REXING
Product name:	Dash Camera
Model and/or type reference .:	V1 Max
Standards	FCC Rules and Regulations Part 15 Subpart C Section 15.247 ANSI C63.10: 2013

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Date of lest	
Date (s) of performance of tests:	Aug. 13, 2021 ~Sept. 02, 2021
Date of Issue:	Sept. 02, 2021
Test Result	Pass

2

Testing Engineer

Loang Bian

(Gary Qian)

Technical Manager

(Eden Hu)

Authorized Signatory :

(Jason Zhou)

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** Modified History **

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Sept. 02, 2021	Jason Zhou
TING	TING	TING	G TING

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1. TEST RESULT SUMMARY

1.1. TEST PROCEDURES AND RESULTS

Result	
PASS	
N/A	
PASS	
7	

Note:

1. PASS: Test item meets the requirement.

- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.

1.2. TEST FACILITY

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

Address

1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

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1.3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	±2.71dB
2	RF power, conducted	±0.37dB
3	Spurious emissions, conducted	±0.11dB
4	All emissions, radiated(<1G)	±3.90dB
5.00	All emissions, radiated(>1G)	±4.28dB
6	Temperature	±0.1°C
7	Humidity	±1.0%

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2. EUT DESCRIPTION

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2.1. GENERAL DESCRIPTION OF EUT

HUAN	HUAN HUAN
Equipment:	Dash Camera
Model Name:	V1 Max
Serial No.:	N/A Other
Model Difference:	N/A
FCC ID:	2AW5W-V1MAX
Antenna Type:	Internal Antenna
Antenna Gain:	2.46dBi
Operation frequency:	802.11b/g/n 20:2412~2462 MHz
Number of Channels:	802.11b/g/n20: 11CH
Modulation Type:	CCK/OFDM/DBPSK/DAPSK
Power Source:	DC 5V from car charger
Power Rating:	DC 5V from car charger

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2.2. Carrier Frequency of Channels

	Channel List for 802.11b/802.11g/802.11n (HT20)						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	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	-sthig	

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:

2.3. OPERATION OF EUT DURING TESTING

Operating Mode The mode is used: ⁻

The mode is used: Transmitting mode for 802.11b/802.11g/802.11n (HT20)

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

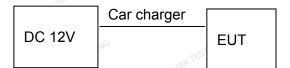
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2.4. DESCRIPTION OF TEST SETUP

Operation of EUT during testing:



Car charger information Input: DC 12V-24V Output: DC 5V-2.5A

The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) 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. The worst case is Z position.

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3. ENERA INFORMATION

3.1. TEST ENVIRONMENT AND MODE

Operating Environment:				
Temperature:	25.0 °C	HUAKTESIN	HUAKTES	
Humidity:	56 % RH	^(C)		
Atmospheric Pressure:	1010 mbar	AK TESTING		

Test Mode:

Engineering mode:

Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 98.46%)

The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) 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. For the full battery state and The output power to the maximum state.

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.

MNG	Mode	TESTING	Data rate	115
	802.11b	Jan .	1Mbps	CO HUAN
	802.11g	TING	6Mbps	
	802.11n(H20)	2.	6.5Mbps	TESTING

Final Test Mode:

Operation mode:	Keep the EUT in continuous transmitting
Operation mode.	with modulation

1. For WIFI function, the engineering test program was provided and enabled to make EUT continuous transmit/receive.

2.According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup" 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(H20). Duty cycle setting during the transmission is 98.5% with maximum power setting for all modulations.

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3.2. DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
1	NG HUAK TEST	s I	I HUAK TESTIN	5 /

Note:

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1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

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4. TEST RESULTS AND MEASUREMENT DATA

4.1. CONDUCTED EMISSION

Test Specification

Test Requirement:	FCC Part15 C Section	n 15.207			
Test Method:	ANSI C63.10:2013	-m ⁱ	3		
Frequency Range:	150 kHz to 30 MHz	O HUAK TES	W TESTING		
Receiver setup:	RBW=9 kHz, VBW=30) kHz, Sweep tim	ne=auto		
Limits:	Frequency range (MHz) 0.15-0.5 0.5-5 5-30	Limit (Quasi-peak 66 to 56* 56 60	(dBuV) Average 56 to 46* 46 50		
Test Setup:	Refere 40cm E.U.T AC po Test table/Insulation pla Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Test table height=0.8m	ne I I I I I I I I I I I I I I I I I I I	— AC power		
Test Mode:	Charging + transmitting with modulation				
Test Procedure:	 The E.U.T is connelline impedance staprovides a 500hm/smeasuring equipme The peripheral devides power through a L coupling impedance refer to the block photographs). Both sides of A.C conducted interfere emission the relative 	abilization netwo 50uH coupling in ent. ces are also conr ISN that provide e with 50ohm ter diagram of the . line are check nce. In order to	rk (L.I.S.N.). This mpedance for the nected to the main es a 50ohm/50uH rmination. (Please e test setup and ked for maximum		
	the interface cable ANSI C63.10: 2013	s must be chan	ged according to		

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Test Instruments

Conducted Emission Shielding Room Test Site (843)					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Receiver	R&S	ESCI 7	HKE-010	Dec. 10, 2020	Dec. 09, 2021
LISN	R&S	ENV216	HKE-002	Dec. 10, 2020	Dec. 09, 2021
Coax cable (9KHz-30MHz)	Times	381806-002	N/A	Dec. 10, 2020	Dec. 09, 2021
Conducted test software	Tonscend	TS+ Rev 2.5.0.0	HKE-081	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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4.2. TEST RESULT

Not applicable. Note: EUT power supply by DC Power, so this test item not applicable.

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4.3. MAXIMUM CONDUCTED OUTPUT POWER

Test Specification

Test Requirement:	FCC Part15 C Section 15	5.247 (b)(3)			
Test Method:	KDB 558074	O HUM O HUM			
Limit:	30dBm	NOK TESTING			
Test Setup:	Power meter				
Test Mode:	Transmitting mode with n	nodulation			
Test Procedure:	 FCC KDB 558074 D0 v05r02. 2. The RF output of EUT meter by RF cable an compensated to the reasonance of the maximum por EUT transmit continue. 	Measurement Procedure of 1 15.247 Meas Guidance was connected to the power d attenuator. The path loss was esults for each measurement. ower setting and enable the ously. but power and record the results			
Test Result:	PASS				

Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 10, 2020	Dec. 09, 2021
Power meter	Agilent	E4419B	HKE-085	Dec. 10, 2020	Dec. 09, 2021
Power Sensor	Agilent	E9300A	HKE-086	Dec. 10, 2020	Dec. 09, 2021
RF cable	Times	1-40G	HKE-034	Dec. 10, 2020	Dec. 09, 2021
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Dec. 10, 2020	Dec. 09, 2021

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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Test Data

15	165	43°	7.9°
11-	HUAKTE	TX 802.11b Mode	HUAKTEL
Test	Frequency	Maximum Peak Conducted Output Power	LIMIT
Channel	(MHz)	(dBm)	dBm
CH01	2412	15.64	30
CH06	2437	14.97	30
CH11	2462	15.17	30
		TX 802.11g Mode	0
CH01	2412	15.31	30
CH06	2437	14.23	30
CH11	2462	14.90	30
	TESTING	TX 802.11n20 Mode	TESTING
CH01	2412	14.80	30
CH06	2437	13.74	30
CH11	2462	14.55	30
	0		

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4.4. EMISSION BANDWIDTH

Test Specification

Test Requirement:	FCC Part15 C Section 15	5.247 (a)(2)	NK TESTIN
Test Method:	KDB 558074	O HUM	O HOL
Limit:	>500kHz	AN TESTING	Olar
Test Setup:	Spectrum Analyzer	EUT	MG HUNKTESTING
Test Mode:	Transmitting mode with n	nodulation	
Test Procedure:	 The testing follows FC 15.247 Meas Guidand Set to the maximum por EUT transmit continue Make the measurement resolution bandwidth Video bandwidth (VB) an accurate measurement be greater than 500 k Measure and record th 	ce v05r02. ower setting and e ously. nt with the spectru (RBW) = 100 kHz W) = 300 kHz. In e ment. The 6dB ba Hz.	enable the um analyzer's Set the order to make andwidth must
Test Result:	PASS	O HUM	O m

Test Instruments

and Ho				and you	ATTAL YOU
RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 10, 2020	Dec. 09, 2021
RF cable	Times	1-40G	HKE-034	Dec. 10, 2020	Dec. 09, 2021
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Dec. 10, 2020	Dec. 09, 2021

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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Test data

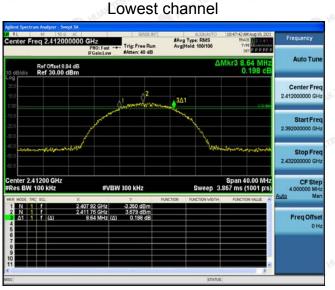
Test sharped	6dB Emission Bandwidth (MHz)				
Test channel	802.11b	802.11g	802.11n(H20)		
Lowest	8.64	16.44	17.64		
Middle	7.28	16.48	17.64		
Highest	8.92	16.52	17.60		
Limit:	TESTING	>500KHz	<i></i>		
Test Result:	G HUA	PASS	TING TSTING		

Test plots as follows:

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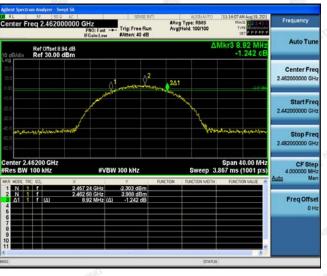
802.11b Modulation



Middle channel



Highest channel



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802.11g Modulation

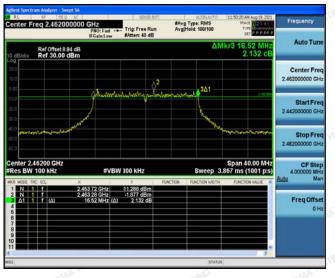
Lowest channel



Middle channel



Highest channel



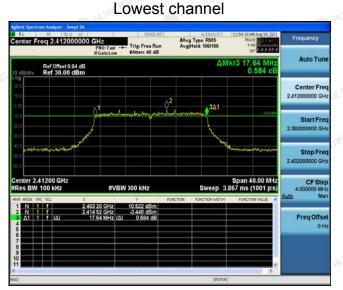
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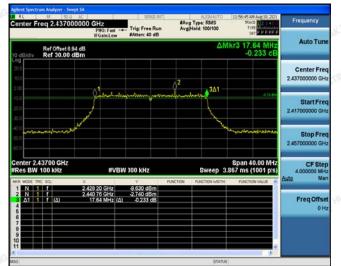
NG

IК °PB

802.11n (HT20) Modulation



Middle channel



Highest channel



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4.5. POWER SPECTRAL DENSITY

Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB 558074
Limit:	The average power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.
Test Setup:	Spectrum Analyzer
Test Mode:	Transmitting mode with modulation
Test Procedure:	 The testing follows Measurement procedure 10.2 method PKPSD of FCC KDB Publication 558074 D01 15.247 Meas Guidance v05r02. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. Set the span to at least 1.5 times the OBW. Detector = Peak, Sweep time = auto couple. Employ trace averaging (Peak) mode over a minimum of 100 traces. Use the peak marker function to determine the maximum power level. Measure and record the results in the test report.
Test Result:	PASS

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Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 10, 2020	Dec. 09, 2021
RF Cable (9KHz-26.5GHz)	Tonscend	170660	N/A	Dec. 10, 2020	Dec. 09, 2021
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Dec. 10, 2020	Dec. 09, 2021
RF test software	Tonscend	JS1120-B Version 2.6	HKE-083	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

Test data

EUT Set Mode	Channel	Result (dBm/30kHz)	Result (dBm/3kHz)
	Lowest	-1.05	-11.05
802.11b	Middle	-0.69	-10.69
	Highest	-1.1	-11.1
	Lowest	-7.45	-17.45
802.11g	Middle	-6.78	-16.78
	Highest	-6.56	-16.56
	Lowest	-8.4	-18.4
802.11n(H20)	Middle	-7.67	-17.67
	Highest	-7.37	-17.37
PSD test result (dBm/	/3kHz)= PSD tes	t result (dBm/30kHz)-10	
Limit: 8dBm/3kHz			
Test Result:	HUAK	PASS	Sur

0

Test plots as follows:

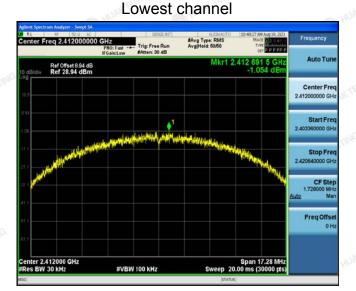
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FICATION

802.11b Modulation



Middle channel



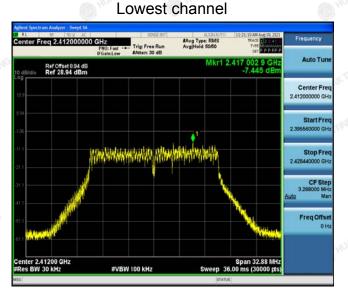
Highest channel



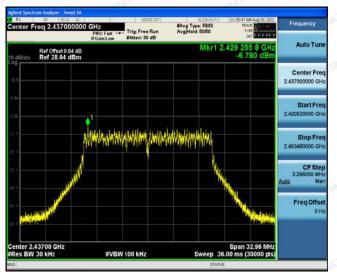
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802.11g Modulation



Middle channel



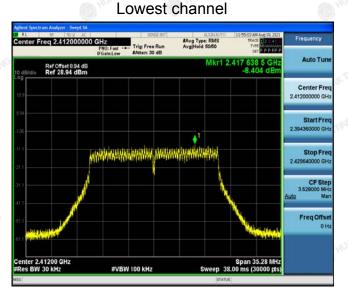
Highest channel

 Bit Spectrum Andrem
 Spectrum
 Control
 District Program
 District Program
 Program

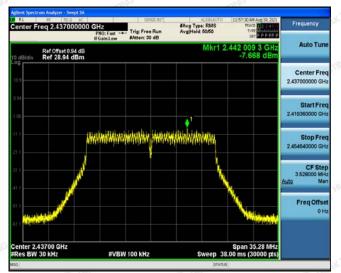
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802.11n (HT20) Modulation



Middle channel



Highest channel

 Bigend Systems Advert
 Bigend Systems Advert

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4.6. CONDUCTED BAND EDGE AND SPURIOUS EMISSION MEASUREMENT

Test Specification

Limit: frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB 30dB relative to the maximum PSD level in 100 kHz to RF conducted measurement and radiated emission which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a). Test Setup:	Test Requirement:	FCC Part15 C Section 15.247 (d)
Limit: frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB 30dB relative to the maximum PSD level in 100 kHz to RF conducted measurement and radiated emission which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a). Test Setup:	Test Method:	KDB558074
Test Setup: EUT Spectrum Analyzer EUT Test Mode: Transmitting mode with modulation 1. The testing follows FCC KDB Publication 558074 DO 15.247 Meas Guidance v05r02. 15.247 Meas Guidance v05r02. 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure used. If the transmitter complies with the conducted power limits based on the use of RMS averaging ov a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). 5. Measure and record the results in the test report. 6. The RF fundamental frequency should be excluded	Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).
 The testing follows FCC KDB Publication 558074 DO 15.247 Meas Guidance v05r02. The RF output of EUT was connected to the spectrul analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). Measure and record the results in the test report. 	Test Setup:	
 Test Procedure: Test Procedure: 15.247 Meas Guidance v05r02. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum peak conducted output power procedure used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). Measure and record the results in the test report. The RF fundamental frequency should be excluded 	Test Mode:	Transmitting mode with modulation
	Test Procedure:	 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). Measure and record the results in the test report.
Test Result: PASS	Test Result:	against the limit line in the operating frequency band.

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RF Test Room										
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due					
Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 10, 2020	Dec. 09, 2021					
High pass filter unit	Tonscend	JS0806- F	HKE-055	Dec. 10, 2020	Dec. 09, 2021					
RF Cable (9KHz-26.5GHz)	Tonscend	170660	N/A	Dec. 10, 2020	Dec. 09, 2021					
RF automatic control unit	Tonscend	JS0806- 2	HKE-060	Dec. 10, 2020	Dec. 09, 2021					
RF test software	Tonscend	JS1120- B Version 2.6	HKE-083	N/A	N/A					

Test Instruments

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

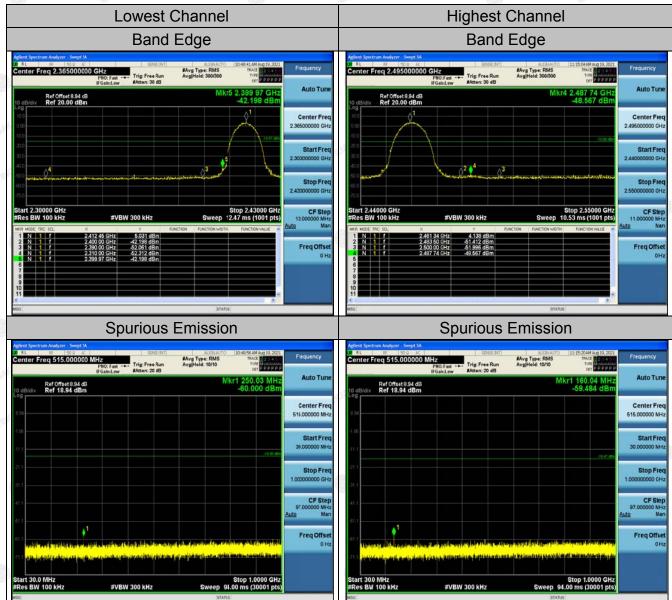
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Test Data

802.11b Modulation



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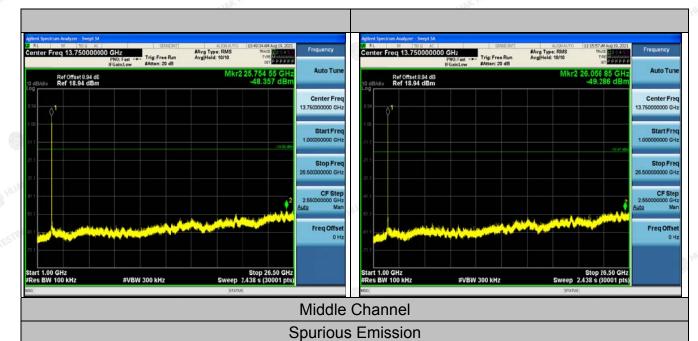
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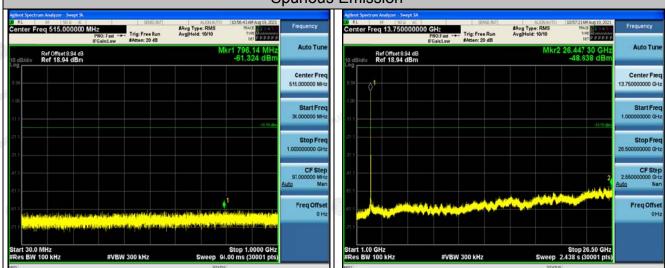


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Report No.: HK2108132884-E

FICATION



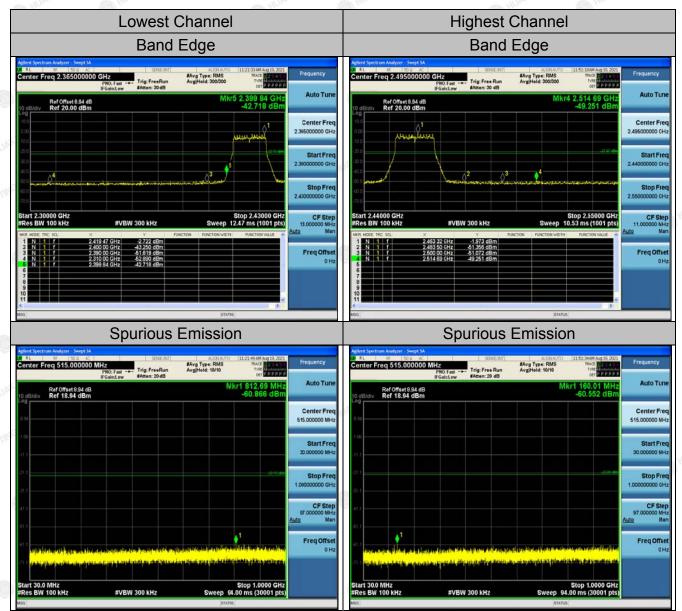


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802.11g Modulation

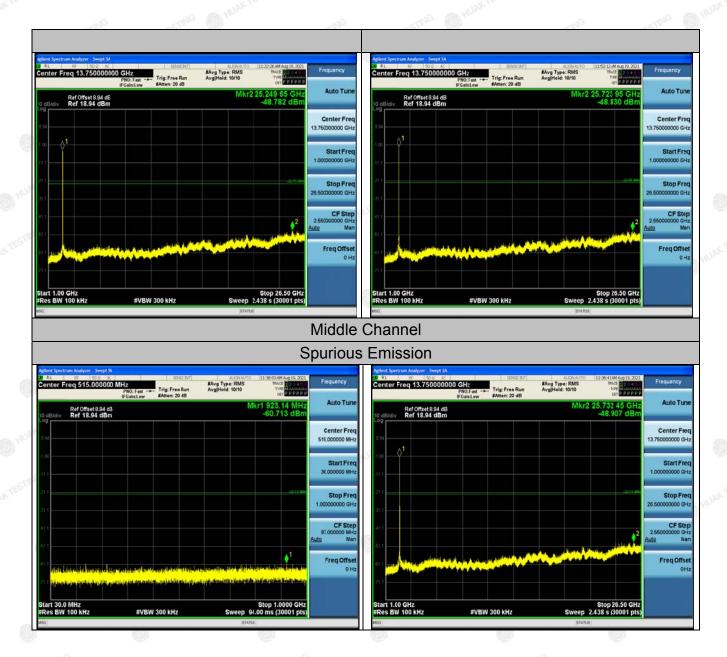


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FIF



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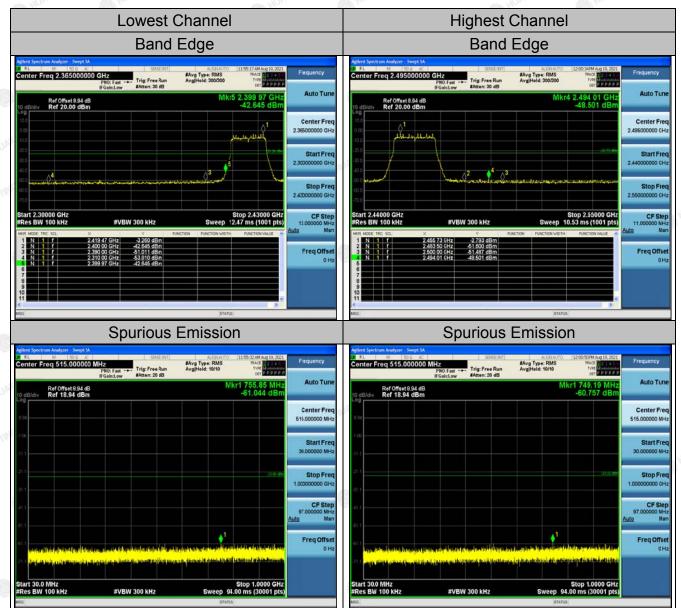
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NG

IК °PB

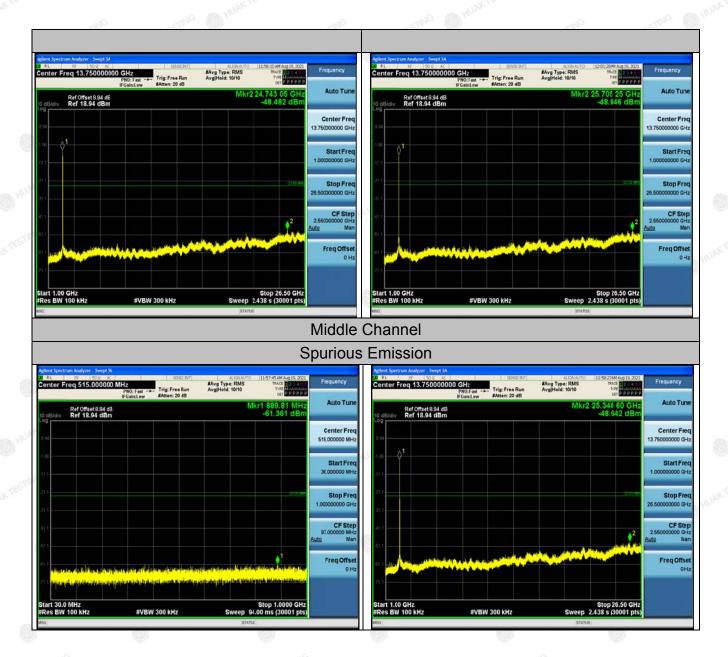
802.11n (HT20) Modulation



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HUAK TESTING

4.7. RADIATED SPURIOUS EMISSION MEASUREMENT

Test Specification

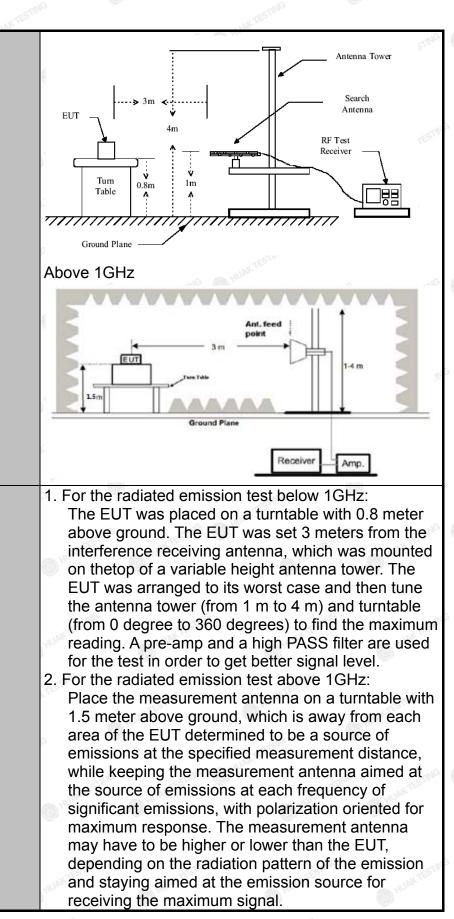
Test Requirement:	FCC Part15	C Section 2	15.209	TEST	1G	TEST	
Test Method:	ANSI C63.10: 2013						
Frequency Range:	9 kHz to 25 (STING					
Measurement Distance:	3 m	3 m		HUAN TESTING			
Antenna Polarization:	Horizontal &	O HUAN					
Operation mode:	Transmitting						
	Frequency 9kHz- 150kHz	Detector Quasi-peak	RBW 200Hz	VBW 1kHz	Remark Quasi-peak Value		
Receiver Setup:	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value		
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value		
	Above 1GHz	Peak Peak	1MHz 1MHz	3MHz 10Hz	-	eak Value	
	Frequency		Field Stro (microvolts	ength N		Average Value Measurement Distance (meters)	
	0.009-0.4	190	2400/F(4.23		300	
	0.490-1.7		24000/F	KHz)		30	
	1.705-30		30		30		
	30-88 88-216		<u> </u>		3		
	216-96	C.	200		NG	3 51110	
Limit:	Above 9		500		9.1	- 3 UAK TE	
	Frequency Above 1GHz	(microvo	Strength blts/meter)	Measure t Distan (meter 3 3	ce	Detector Average	
	Above IGH2	5	5000			Peak	
Test setup:	For radiated		5 m)	restruction of the second seco	
	30MHz to 10			HU.			

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CATION



Test Procedure:

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	The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference
, HUN	ground plane. 3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
KTES	4. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission
Q.	level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
0	 5. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured;
-19	(2) Set RBW=120 kHz for f < 1 GHz; VBW ≥RBW; Sweep = auto; Detector function = peak; Trace = max hold;
, the second sec	(3) Set RBW = 1 MHz, VBW= 3MHz for f 1 GHz for peak measurement.
K715	6.For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent.VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the
Q	minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Test results:	PASS

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AF

Test Instruments

	Radi	ated Emission	Test Site (96	6)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Receiver	R&S	ESCI-7	HKE-010	Dec. 10, 2020	Dec. 09, 2021
Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 10, 2020	Dec. 09, 2021
Spectrum analyzer	R&S	FSP40	HKE-025	Dec. 10, 2020	Dec. 09, 2021
High gain antenna	Schwarzbeck	LB-180400KF	HKE-054	Dec. 10, 2020	Dec. 09, 2021
Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Dec. 10, 2020	Dec. 09, 2021
Preamplifier	EMCI	EMC051845S E	HKE-015	Dec. 10, 2020	Dec. 09, 2021
Preamplifier	Agilent	83051A	HKE-016	Dec. 10, 2020	Dec. 09, 2021
Loop antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Dec. 10, 2020	Dec. 09, 2021
Broadband antenna	Schwarzbeck	VULB 9163	HKE-012	Dec. 10, 2020	Dec. 09, 2021
Horn antenna	Schwarzbeck	9120D	HKE-013	Dec. 10, 2020	Dec. 09, 2021
High pass filter unit	Tonscend	JS0806-F	HKE-055	Dec. 10, 2020	Dec. 09, 2021
Antenna Mast	Keleto	CC-A-4M	N/A	N/A	N/A
Position controller	Taiwan MF	MF7802	HKE-011	Dec. 10, 2020	Dec. 09, 2021
Radiated test software	Tonscend	TS+ Rev 2.5.0.0	HKE-082	N/A	N/A
RF cable	Times	9kHz-1GHz	HKE-117	Dec. 10, 2020	Dec. 09, 2021
RF cable	Times	1-40G	HKE-034	Dec. 10, 2020	Dec. 09, 2021
Horn Antenna	Schewarzbeck	BBHA 9170	HKE-017	Dec. 10, 2020	Dec. 09, 2021

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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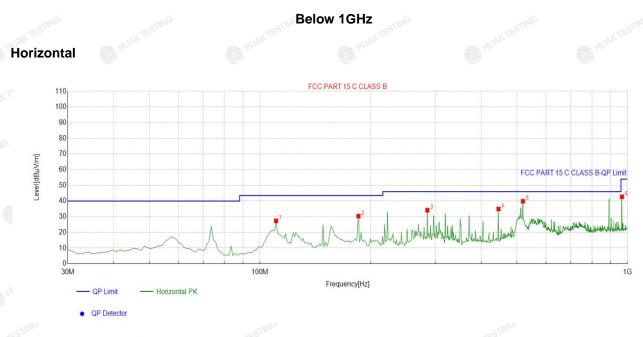
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NG

Test Data

All the test modes completed for test. only the worst result of (802.11b at 2412MHz) was reported as below:



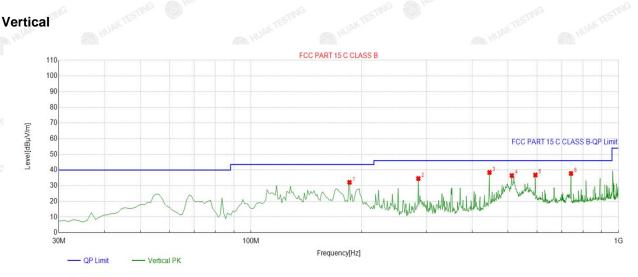
		-								
	Suspe	cted List								
	NO.	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Polarity
	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polanty
	1	110.5906	-15.53	42.91	27.38	43.50	16.12	100	148	Horizontal
	2	185.3554	-16.40	46.80	30.40	43.50	13.10	100	191	Horizontal
	3	285.3654	-13.03	47.19	34.16	46.00	11.84	100	199	Horizontal
	4	445.5756	-9.18	44.10	34.92	46.00	11.08	100	334	Horizontal
8	5	<mark>519.3694</mark>	-7.75	47.64	39.89	46.00	6.11	100	322	Horizontal
	6	966.0160	-1.45	44.18	42.73	54.00	11.27	100	44	Horizontal

Remark: Factor = Cable loss + Antenna factor - Preamplifier; Level = Reading + Factor; Margin = Limit - Level

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•	QP	Det

Suspe	cted List								
Freq.	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Delevitu
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	185.3554	-16.40	48.52	32.12	43.50	11.38	100	177	Vertical
2	285.3654	-13.03	47.60	34.57	46.00	11.43	100	105	Vertical
3	445.5756	-9.18	47.64	38.46	46.00	7.54	100	4	Vertical
4	512.5726	-7.94	44.42	36.48	46.00	9.52	100	173	Vertical
5	594.1341	-6.50	43.34	36.84	46.00	9.16	100	240	Vertical
6	742.6927	-4.02	41.82	37.80	46.00	8.20	100	173	Vertical

Remark: Factor = Cable loss + Antenna factor - Preamplifier; Level = Reading + Factor; Margin = Limit - Level

Harmonics and Spurious Emissions

Frequency Range (9kHz-30MHz)

2	Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)
	O	9 <u></u> 9	· · ·
TAIG			-mis
	TING	AKTES TAG	- unak Ten
	- HUAKTEL	- HUTH TEN	······································

Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor.

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement.

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Above 1GHz

RADIATED EMISSION TEST

LOW CH1 (802.11b Mode)/2412

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	56.89	-3.64	53.25	74	-20.75	peak
4824	41.24	-3.64	37.6	54	-16.4	AVG
7236	53.62	-0.95	52.67	74	-21.33	peak
7236	40.07	-0.95	39.12	54	-14.88	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	56.76	-3.64	53.12	74 resm	-20.88	peak
4824	41.98	-3.64	38.34	54	-15.66	AVG
7236	53.16	-0.95	52.21	74	-21.79	peak
7236	40.28	-0.95	39.33	54	-14.67	AVG

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

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FICATION

MID CH6 (802.11b Mode)/2437

Horizontal:

Frequency	Reading Result	Factor	Emission Level	No Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	57.12	-3.51	53.61	74	-20.39	peak
4874	43.86	-3.51	40.35	54 HUM	-13.65	AVG
7311	53.41	-0.82	52.59	74	-21.41	peak
7311	42.58	-0.82	41.76	54	-12.24	AVG
7311	+	-0.82	41.76	CTIV	-	Ś

Vertical:

034		200	% Limits	Margin	Detector	
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
56.77	-3.51	53.26	74	-20.74	peak	
44.34	-3.51	40.83	54	-13.17	AVG	
53.29	-0.82	52.47	74	-21.53	peak	
43.31	-0.82	42.49	54	-11.51	AVG	
	56.77 44.34 53.29	56.77 -3.51 44.34 -3.51 53.29 -0.82	56.77 -3.51 53.26 44.34 -3.51 40.83 53.29 -0.82 52.47	56.77 -3.51 53.26 74 44.34 -3.51 40.83 54 53.29 -0.82 52.47 74	56.77 -3.51 53.26 74 -20.74 44.34 -3.51 40.83 54 -13.17 53.29 -0.82 52.47 74 -21.53	

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

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HIGH CH11 (802.11b Mode)/2462

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4924	56.18	-3.43	52.75	74 🕚	-21.25	peak
4924	43.86	-3.43	40.43	54	-13.57	AVG
7386	52.03	-0.75	51.28	74	-22.72	peak
7386	42.44	-0.75	41.69	54	-12.31	AVG
	•	1911		251		

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
4924	57.08	-3.43	53.65	74	-20.35	peak
o 4924	42.39	-3.43	38.96	54	-15.04	AVG
7386	53.77	-0.75	53.02	74	-20.98	peak
7386	41.69	-0.75	40.94	54	-13.06	AVG

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

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) The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.

(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.

(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 Fundamental73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54dBuV/m(AV Limit), the Average Detected not need to completed.

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В ПР

LOW CH1 (802.11g Mode)/2412

Horizontal:

Frequency	Reading Result	Factor	Emission Level	🔊 Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	56.46	-3.64	52.82	74	-21.18	peak
4824	46.37	-3.64	42.73	54	-11.27	AVG
7236	52.58	-0.95	51.63	74	-22.37	peak
7236	44.12	-0.95	43.17	54	-10.83	AVG
Remark: Factor	r = Antenna Factor	+ Cable Loss	- Pre-amplifier.		AKTESTING	ILAK TESTAN

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	57.03	-3.64	53.39	74	-20.61	peak
4824	43.79	-3.64	40.15	54	-13.85	AVG
7236	52.42	-0.95	51.47	74	-22.53	peak
7236	42.13	-0.95	41.18	54	-12.82	AVG

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

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NG

IK Pr

MID CH6 (802.11g Mode)/2437

Horizontal:

Frequency	Reading Result	Factor	Emission Level	🔊 Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	57.14	-3.51	53.63	74	-20.37	peak
4874	43.73	-3.51	40.22	54	-13.78	AVG
7311	53.62	-0.82	52.8	74	-21.2	peak
7311	42.81	-0.82	41.99	54	-12.01	AVG
Remark: Factor	r = Antenna Factor +	- Cable Loss	- Pre-amplifier.	Onthe	STING	TESTING

Vertical:

Frequency	Reading Result	Factor	Emission Level	NG Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	56.42	-3.51	52.91	74	-21.09	peak
4874	44.31	-3.51	40.8	54	-13.2	AVG
7311	52.73	-0.82	51.91	74	-22.09	peak
7311	42.69	-0.82	41.87	54	-12.13	AVG
Remark: Factor	r = Antenna Factor	+ Cable Loss -	- Pre-amplifier.	w.	NK TESTING	MAKTESTIN

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HIGH CH11 (802.11g Mode)/2462

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	^{∞©} (dBµV/m)	(dB)	Туре
4924	56.49	-3.43	53.06	74 🔘	-20.94	peak
s ^{MG} 4924	43.71	-3.43	40.28	54	-13.72	AVG
7386	51.82	-0.75	51.07	74	-22.93	peak
7386	41.74	-0.75	40.99	54	-13.01	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)	Туре
4924	56.35	-3.43	52.92	74	-21.08	peak
4924	43.79	-3.43	40.36	54	-13.64	AVG
7386	51.62	-0.75	50.87	74	-23.13	peak
7386	41.83	-0.75	41.08	54	-12.92	AVG

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

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) The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.

(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.

(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 Fundamental73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54dBuV/m(AV Limit), the Average Detected not need to completed.

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C al

LOW CH1 (802.11n/H20 Mode)/2412

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	[⊚] (dBµV/m)	(dB)	Туре
4824	57.08	-3.64	53.44	74 🌑	-20.56	peak
4824	43.19	-3.64	39.55	54	^{مس6} -14.45	AVG
7236	53.75	-0.95	52.8	74	-21.2	peak
7236	42.21	-0.95	41.26	54	-12.74	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)	Туре
4824	57.11	-3.64	53.47	74	-20.53	peak
4824	41.64	-3.64	38	54	-16	AVG
7236	53.46	-0.95	52.51	74	-21.49	peak
7236	40.38	-0.95	39.43	54	-14.57	AVG
Remark: Factor	r = Antenna Factor -	+ Cable Loss	- Pre-amplifier.		AKTESTING	I LAK TESTING

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CATION

MID CH6 (802.11n/H20 Mode)/2437

Horizontal:

Frequency	Reading Result	Factor	Emission Level	🔊 Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	57.09	-3.51	53.58	74.00	-20.42	peak
4874	44.27	-3.51	40.76	54.00	-13.24	AVG
7311	53.41	-0.82	52.59	74.00	-21.41	peak
7311	43.96	-0.82	43.14	54.00	-10.86	AVG
Remark: Factor	= Antenna Factor	+ Cable Loss -	Pre-amplifier.		AKTESTING	UNJAK TESTING

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	56.76	-3.51	53.25	74.00	-20.75	peak
4874	42.33	-3.51	38.82	54.00	-15.18	AVG
7311	53.11	-0.82	52.29	74.00	-21.71	peak
7311	41.63	-0.82	40.81	54.00	-13.19	AVG

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

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HIGH CH11 (802.11n/H20 Mode)/2462

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Tree
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4924	55.79	-3.43	52.36	74	-21.64	peak
4924	44.63	-3.43	41.2	54	-12.8	AVG
7386	51.89	-0.75	51.14	74	-22.86	peak
7386	42.75	-0.75	42	54	-12	AVG
Remark: Factor	r = Antenna Factor	+ Cable Loss	– Pre-amplifier.	NG O MUM	STING	TESTING

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Tree
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Detector Type
4924	57.06	-3.43	53.63	74	-20.37	peak
4924	45.72	-3.43	42.29	54	-11.71	AVG
7386	53.77	-0.75	53.02	74	-20.98	peak
7386	44.16	-0.75	43.41	54	-10.59	AVG
Remark: Factor	r = Antenna Factor	+ Cable Loss	– Pre-amplifier	No. O.	STING	rESTING

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Test Result of Radiated Spurious at Band edges

Operation Mode:

802.11b Mode TX CH Low (2412MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Data stor Turo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2310.00	56.42	-5.81	50.61	74	-23.39	peak
2310.00	45.88	-5.81	40.07	54	-13.93	AVG
2390.00	53.12	-5.84	47.28	74	-26.72	peak
2390.00	43.92	-5.84	38.08	54	-15.92	AVG
mark: Factor	= Antenna Factor	+ Cable Loss	– Pre-amplifier.	No	K TESTING	K TESTING

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2310.00	59.03	-5.81	53.22	74	-20.78	peak
2310.00	47.16	-5.81	41.35	54	-12.65	AVG
2390.00	57.83	-5.84	51.99	74	-22.01	peak
2390.00	45.28	-5.84	39.44	"o 54	-14.56	AVG

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Operation Mode: TX CH High (2462MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Delector Type
2483.50	56.19	-5.81	50.38	74 HUM	-23.62	peak
2483.50	46.33	-5.81	40.52	54	-13.48	AVG
2500.00	54.79	-6.06	48.73	74	-25.27	peak
2500.00	43.28	-6.06	37.22	54	-16.78	AVG

Vertical:

Reading Result	Factor	Emission Level	Limits 🔘	Margin	Detector Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
58.13	-5.81	52.32	74	-21.68	peak
46.91	-5.81	41.1	54	-12.9	AVG
55.27	-6.06	49.21	74	-24.79	peak
44.63	-6.06	38.57	54	-15.43	AVG
	(dBµV) 58.13 46.91 55.27	(dBµV) (dB) 58.13 -5.81 46.91 -5.81 55.27 -6.06	(dBµV) (dB) (dBµV/m) 58.13 -5.81 52.32 46.91 -5.81 41.1 55.27 -6.06 49.21	(dBµV) (dB) (dBµV/m) (dBµV/m) 58.13 -5.81 52.32 74 46.91 -5.81 41.1 54 55.27 -6.06 49.21 74	(dBµV) (dB) (dBµV/m) (dBµV/m) (dBµV/m) 58.13 -5.81 52.32 74 -21.68 46.91 -5.81 41.1 54 -12.9 55.27 -6.06 49.21 74 -24.79

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

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.

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

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Turc
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2310.00	57.14	-5.81	51.33	74	-22.67	peak
2310.00	45.87	-5.81	40.06	54	-13.94	AVG
2390.00	56.22	-5.84	50.38	74	-23.62	peak
2390.00	44.13	-5.84	38.29	54	-15.71	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits 🍙	Margin	Patrone Trees
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2310.00	57.49	-5.81	51.68	74 MUAN	-22.32	peak
2310.00	45.88	-5.81	40.07	54	-13.93	AVG
2390.00	57.03	-5.84	51.19	74	-22.81	peak
2390.00	44.27	-5.84	38.43	54	-15.57	AVG

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Operation Mode: TX CH High (2462MHz)

Horizontal

Frequency Rea	Reading Result	Factor	Emission Level	🎺 Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	57.96	-5.65	52.31	74	-21.69	peak
2483.50	46.43	-5.65	40.78	54	-13.22	AVG
2500.00	55.82	-5.65	50.17	74	-23.83	peak
2500.00	45.17	-5.65	39.52	54	-14.48	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Dation Turn
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	58.16	-5.65	52.51	74	-21.49	peak
2483.50	47.24	-5.65	41.59	54	-12.41	AVG
2500.00	57.33	-5.65	51.68	74	-22.32	peak
2500.00	46.95	-5.65	41.3	54	-12.7	AVG

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.

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FICATION

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

Horizontal

Frequency	Reading Result	Factor	Emission Level	🖗 Limits	Margin	Detector Turne
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Detector Type
2310.00	55.97	-5.81	50.16	74	-23.84	peak
2310.00	46.21	-5.81	40.4	54 ^{MUM}	-13.6	AVG
2390.00	53.76	-5.84	47.92	74	-26.08	peak
2390.00	44.66	-5.84	38.82	54	-15.18	AVG
Remark: Factor	= Antenna Factor	+ Cable Loss -	Pre-amplifier.		X TESTING	UAK TESTING

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Ture
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3 2310.00	59.37	-5.81	53.56	74	-20.44	peak
2310.00	48.21	-5.81	42.4	54	-11.6	AVG
2390.00	55.86	-5.84	50.02	74	-23.98	peak
2390.00	47.31	-5.84	41.47	54	-12.53	AVG

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

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Operation Mode: TX CH High (2462MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Ture
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	57.31	-5.65	51.66	74 HUM	-22.34	peak
2483.50	46.82	-5.65	41.17	54	-12.83	AVG
2500.00	55.16	-5.65	49.51	74	-24.49	peak
2500.00	44.22	-5.65	38.57	54	-15.43	AVG

Vertical:

Reading Result	Factor	Emission Level	Limits 🕚	Margin	Detector Ture
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
56.94	-5.65	51.29	74	-22.71	peak
45.67	-5.65	40.02	54	-13.98	AVG
54.15	-5.65	48.5	74	-25.5	peak
43.28	-5.65	37.63	54	-16.37	AVG
	(dBµV) 56.94 45.67 54.15	(dBµV) (dB) 56.94 -5.65 45.67 -5.65 54.15 -5.65	(dBµV) (dB) (dBµV/m) 56.94 -5.65 51.29 45.67 -5.65 40.02 54.15 -5.65 48.5	(dBµV) (dB) (dBµV/m) (dBµV/m) 56.94 -5.65 51.29 74 45.67 -5.65 40.02 54 54.15 -5.65 48.5 74	(dBµV) (dB) (dBµV/m) (dBµV/m) (dBµV/m) (dB) 56.94 -5.65 51.29 74 -22.71 45.67 -5.65 40.02 54 -13.98 54.15 -5.65 48.5 74 -25.5

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

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.

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4.8. 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. And according to FCC 47 CFR Section 15.247, if transmitting antennas of directional gain greater than6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Antenna Connected Construction

The antenna used in this product is a Internal Antenna, need professional installation. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 2.46dBi.

WIFI ANTENNA



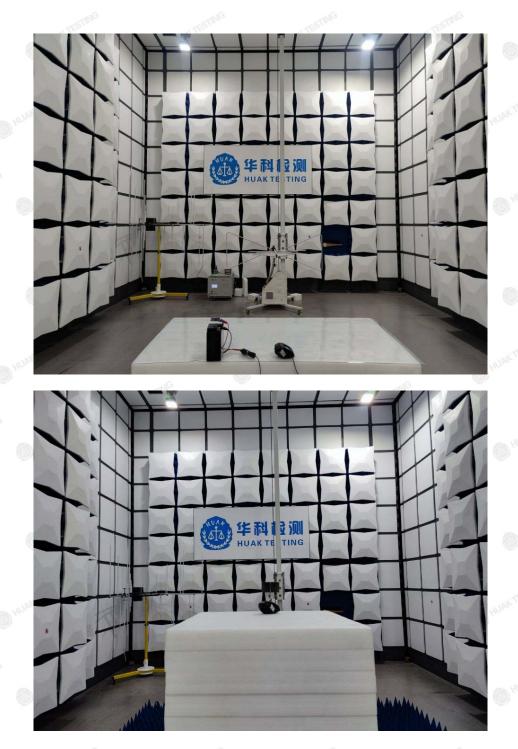
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5. PHOTOGRAPH OF TEST

Radiated Emissions



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IFICATION

6. PHOTOS OF THE EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos.

----End of test report--

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