

Page 1 of 68

Report No.: HK2111244558-E

FCC TEST REPORT

Test report On Behalf of REXING INC. For Dash Camera Model No.: V1PGW-4K

FCC ID: 2AW5W-V1PGW

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:
 Nov. 24, 2021 ~ Dec. 01, 2021

 Date of Report:
 Dec. 01, 2021

 Report Number:
 HK2111244558-E

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com

15.247



Page 2 of 68

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
Product description	China China

r rouuer description	
Trade Mark:	REXING
Product name:	Dash Camera
Model and/or type reference :	V1PGW-4K
Standards:	FCC Rules and Regulations Part 15 Subpart C Section 1 ANSI C63.10: 2013

This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen HUAK Testing Technology Co., Ltd. is acknowledged as copyright owner and source of the material. Shenzhen HUAK Testing Technology Co., Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

Date of Test	
Date (s) of performance of tests:	Nov. 24, 2021 ~ Dec. 01, 2021
Date of Issue	Dec. 01, 2021
Test Result	Pass

Testing Engineer

Aan

(Gary Qian)

Technical Manager

(Eden Hu)

Authorized Signatory:

ason Thou

(Jason Zhou)

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

HUAK Testing Lab TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



NG

IK Per

TABLE OF CONTENTS

1.	Test Result Summary		
	1.1. TEST PROCEDURES AND RESULTS		
	1.2. INFORMATION OF THE TEST LABORATORY	HUNK	
	1.3. MEASUREMENT UNCERTAINTY		6
2.	EUT Description	NAM TESTIC	7
	2.1. GENERAL DESCRIPTION OF EUT	<u> </u>	
	2.2. OPERATION OF EUT DURING TESTING		
	2.3. DESCRIPTION OF TEST SETUP		9
3.	Genera Information	ALAK TES IN	
	3.1. TEST ENVIRONMENT AND MODE	Y	
	3.2. DESCRIPTION OF SUPPORT UNITS	~	12
4.	Test Results and Measurement Data	A DE TESTING	
	4.1. CONDUCTED EMISSION	<u></u>	
	4.2. TEST RESULT		
	4.3. MAXIMUM CONDUCTED OUTPUT POWER		
	4.4. EMISSION BANDWIDTH		
	4.5. Power Spectral Density	STARS	24
	4.6. CONDUCTED BAND EDGE AND SPURIOUS EMISSION MEASUREMENT		
	4.7. RADIATED SPURIOUS EMISSION MEASUREMENT	ALLAN IL	
	4.8. ANTENNA REQUIREMENT	<i></i>	
	4.9. PHOTOGRAPH OF TEST		67
	4.10. PHOTOS OF THE EUT	and the second se	68

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



T 691

** Modified History **

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Dec. 01, 2021	Jason Zhou
MG	-me	TING TH	G ING

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



1. Test Result Summary

1.1. TEST PROCEDURES AND RESULTS

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	N/A
Conducted Peak Output Power	§15.247 (b)(3)	PASS
6dB Emission Bandwidth	§15.247 (a)(2)	PASS
Power Spectral Density	§15.247 (e)	PASS
Band Edge	1§5.247(d)	PASS
Spurious Emission	§15.205/§15.209	PASS
6		<u>_</u>

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. INFORMATION OF THE TEST LABORATORY

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

Testing Laboratory Authorization :

A2LA Accreditation Code is 4781.01. FCC Designation Number is CN1229. Canada IC CAB identifier is CN0045. CNAS Registration Number is L9589.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com

FICATION

1.3. Measurement Uncertainty

HUAK TESTING

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 restru	All emissions, radiated(>1G)	±4.28dB
6	Temperature	±0.1°C
7	Humidity	±1.0%

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com



2. EUT Description

2.1. GENERAL DESCRIPTION OF EUT

WAKTER	WARTER WARTER	MAKTER	MALIN
Equipment	Dash Camera		0
Model Name	V1PGW-4K	HUAKTESTIC	STING
Series Model:	N/A	۲	O HUAK
Model Difference	N/A	UK TESTING	
FCC ID	2AW5W-V1PGW	HUANTES	INVE HUAK TES
Antenna Type	Internal Antenna		0
Antenna Gain	1dBi	V TESTING	
Operation frequency	802.11b/g/n 20:2412~2462 MHz 802.11n 40: 2422~2452MHz	O HUM	O HUM
Number of Channels	802.11b/g/n20: 11CH 802.11n 40: 7CH	O HUAK TESTING	OK TESTING
Modulation Type	CCK/OFDM/DBPSK/DAPSK	STING	O HO
Power Source	DC 5V from car charger	W.T.	M ^G ES
Power Rating	DC 5V from car charger	O HUAN IL	O HUAR

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



Carrier Frequency of Channels

	Ch	annel List	t for 802.11b	/802.11g/8	02.11n (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	.0	

HUAKT	~	Chan	nel List For	802.11n (HT40)		HUAKTER
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
	THE ON	04	2427	07	2442	-	
ESTIN	AKTE	05	2432	08	2447	URA TEST	HUAKTE
03	2422	06 🔘	2437	09	2452	9	(I)

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:

2.2. Operation of EUT during testing

Operating Mode

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

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

The mode is used: Transmitting mode for 802.11n (HT40)

Low Channel: 2422MHz Middle Channel: 2437MHz High Channel: 2452MHz

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com

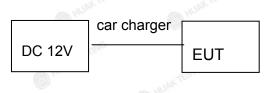


Report No.: HK2111244558-E

IE.

2.3. DESCRIPTION OF TEST SETUP

Operation of EUT during Radiation testing:



Car charger information Model: DC/DC ADAPTER Input: DC12V-24V Output: DC 5V, 1.5A

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.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com



3. Genera Information

3.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
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.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com

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

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

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

Final Test Mode:

•	Keep the EUT in continuous transmitting 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), 13.5Mbps for 802.11(H40). Duty cycle setting during the transmission is 98.5% with maximum power setting for all modulations.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

ICATION



HUAK TESTING

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 I HUAK TEST	C I	I HUAK TESTIN	1

Note:

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.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

HUAK Testing Lab TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



4. Test Results and Measurement Data

4.1. Conducted Emission

Test Specification

TING TING	TING	NG	TING TIN			
Test Requirement:	FCC Part15 C Section	FCC Part15 C Section 15.207				
Test Method:	ANSI C63.10:2013					
Frequency Range:	150 kHz to 30 MHz	HUAK IL	AKTESTING			
Receiver setup:	RBW=9 kHz, VBW=30) kHz, Sweep tim	e=auto			
Limits:	Frequency range (MHz) Limit (dBuV) 0.15-0.5 66 to 56* 56 to 46* 0.5-5 56 46 5-30 60 50					
	Referen	ice Plane	TEST			
Test Setup:	40cm 80cm Filter AC power Filter AC power EMI Receiver Test table/Insulation plane EMI Receiver Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m					
Test Mode:	Charging + transmitting with modulation					
Test Procedure:	 The E.U.T is connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement. 					
Test Result:	N/A	O HUNKTE	O HUAKTES			

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

HUAK Testing Lab TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com



EST FiF

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).

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



Page 15 of 68

Report No.: HK2111244558-E

NG

IК °PB

4.2. Test Result

Not applicable.

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

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



4.3. Maximum Conducted Output Power

Test Specification

Test Requirement:	FCC Part15 C Section 1	FCC Part15 C Section 15.247 (b)(3)			
Test Method:	KDB 558074	O HOM	OHUM		
Limit:	30dBm	14K TESTING	NG		
Test Setup:	Power meter	EUT	HUNCTESTING		
Test Mode:	Transmitting mode with r	Transmitting mode with modulation			
Test Procedure:	 The testing follows the FCC KDB 558074 DO v05r02. The RF output of EUT meter by RF cable ar compensated to the r Set to the maximum p EUT transmit continu Measure the Peak out in the test report. 	01 15.247 Meas Guid was connected to the nd attenuator. The paresults for each mea ower setting and en-	dance he power ath loss was surement. able the		
Test Result:	PASS	WAK TESTING	HUAKTESTIN		

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).

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

HUAK Testing Lab TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



Test Data

TESTING	TESTING	TX 802.11b Mode	TISTING TISTING
Test	Frequency	Maximum Peak Conducted Output Power	LIMIT
Channel	(MHz)	(dBm)	dBm
CH01	2412	13.53	30
CH06	2437	13.98	30
CH11	2462	16.12	30
AUAKTEST	HUAKTES	TX 802.11g Mode	HUAKTEST
CH01	2412	13.45	30
CH06	2437	14.08	30
CH11	2462	14.61	30
ING		TX 802.11n20 Mode	STING
CH01	2412	13.41	30
CH06	2437	14.05	30
CH11	2462	14.67	30
AUAK TESTING	HUAKTES	TX 802.11n40 Mode	HUAKTESTI
CH03	2422	14.11	30
CH06	2437	14.40	30
СН09	2452	14.77	30

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com/

HUAK Testing Lab TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



CATION

4.4. Emission Bandwidth

Test Specification

Test Requirement:	FCC Part15 C Section 1	FCC Part15 C Section 15.247 (a)(2)			
Test Method:	KDB 558074	O HUM	O HUAN		
Limit:	>500kHz	AKTESTING	- JG		
Test Setup:	Spectrum Analyzer	EUT	HIANTESTING		
Test Mode:	Transmitting mode with r	Transmitting mode with modulation			
Test Procedure:	 15.247 Meas Guidane Set to the maximum precure transmit continue Make the measurement resolution bandwidth Video bandwidth (VB) an accurate measure be greater than 500 km 	 Transmitting mode with modulation The testing follows FCC KDB Publication 558074 D0 15.247 Meas Guidance v05r02. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. Measure and record the results in the test report. 			
Test Result:	PASS	O HUAN	TESTING		

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	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).

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

HUAK Testing Lab TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com



Test data

	0.007		1987	
Test channel		6dB Emissior	n Bandwidth (MHz)	
	802.11b	802.11g	802.11n(H20)	802.11n(H40)
Lowest	9.480	16.320	17.520	35.520
Middle	9.520	16.360	17.560	36.080
Highest	10.040	16.360	17.520	36.080
Limit:	CTING	0.	>500k	0
Test Result:	NG HUNKTL	Nor	PASS	G ONG HUM
	KONST .	S107 - 2101	1000	2 Int 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Test plots as follows:

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

HUAK Testing Lab TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



Page 20 of 68

Report No.: HK2111244558-E

802.11b Modulation



Middle channel



Highest channel



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

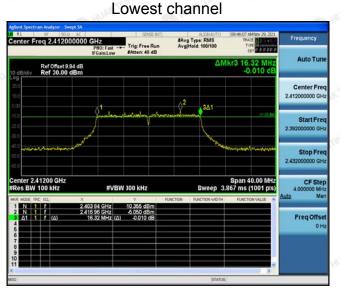


Page 21 of 68

NG

IК °PB

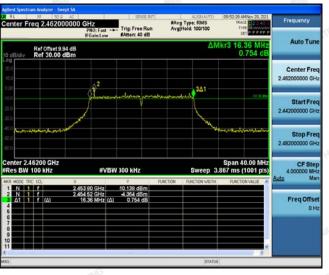
802.11g Modulation



Middle channel



Highest channel



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

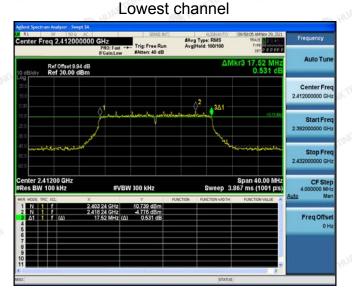
HUAK Testing Lab TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



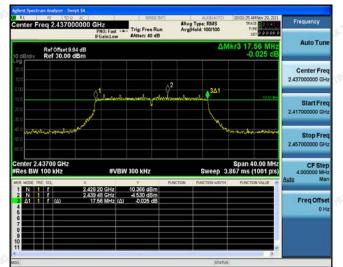
Page 22 of 68

Report No.: HK2111244558-E

802.11n (HT20) Modulation



Middle channel



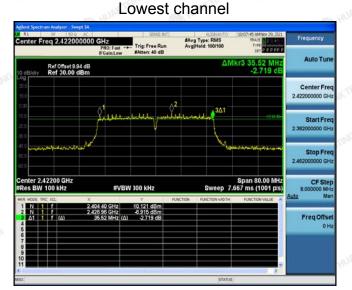
Highest channel



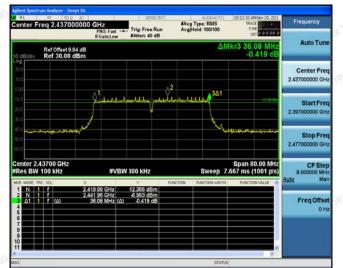
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



802.11n (HT40) Modulation



Middle channel



Highest channel



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

CATION

4.5. Power Spectral Density

Test Specification

Test Requirement:	FCC Part15 C Section 15	FCC Part15 C Section 15.247 (e)			
Test Method:	KDB 558074	HUAKTESIN	HUAKTESI		
Limit:	The average power spec than 8dBm in any 3kHz continuous transmission.		•		
Test Setup:	Spectrum Analyzer	EUT	WHINK TESTING		
Test Mode:	Transmitting mode with m	nodulation	0.		
Test Procedure:	 The testing follows Meanethod PKPSD of FC 15.247 Meas Guidand The RF output of EUT analyzer by RF cable was compensated to the measurement. Set to the maximum port EUT transmit continued Make the measurement resolution bandwidth (kHz. Video bandwidth to at least 1.5 times the 5. Detector = Peak, Sweet Employ trace averaging of 100 traces. Use the determine the maximum 6. Measure and record the second se	C KDB Publication was connected to and attenuator. The results for eac ower setting and e ously. t with the spectrue (RBW): 3 kHz \leq R VBW \geq 3 x RBW. the OBW. time = auto cou- g (Peak) mode ove peak marker fun- um power level.	n 558074 D01 the spectrum he path loss h enable the m analyzer's BW ≤ 100 . Set the span uple. er a minimum ction to		
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
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

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



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	-3.21	-13.21
802.11b	Middle	-2.54	-12.54
	Highest	-0.95	-10.95
802.11g	Lowest	-10.28	-20.28
	Middle	-8.66	-18.66
	Highest	-8.06	-18.06
802.11n(H20)	Lowest	-9.53	-19.53
	Middle	-9.39	-19.39
	Highest	-8.45	-18.45
802.11n(H40)	Lowest	-11.82	-21.82
	Middle	-12.16	-22.16
	Highest	-11.66	-21.66
PSD test result (dBm/3	3kHz)= PSD test	result (dBm/30kHz)-10	
Limit: 8dBm/3kHz			
Test Result:	KTEST	PASS	K TESTING

Test plots as follows:

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



802.11b Modulation



Middle channel



Highest channel



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



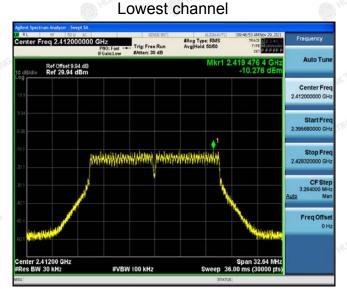
Page 27 of 68

Report No.: HK2111244558-E

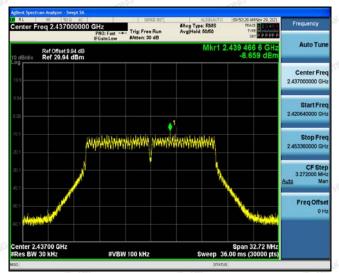
NG

¦К

802.11g Modulation



Middle channel



Highest channel

 Adjends Stratum Audyrr. S-nys 5.4
 Ali2ALT Program SA

 Center Freq 2.462000000 GHz Program SA
 Ali2ALT Program SA Margheld Stobs
 That Program SA Margheld Stobs
 AlizaLtop Stop
 AlizaLtop Stop</td

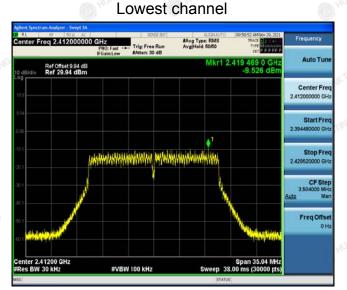
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



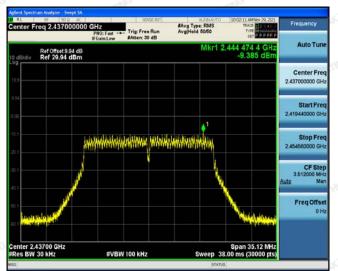
Page 28 of 68

Report No.: HK2111244558-E

802.11n (HT20) Modulation



Middle channel



Highest channel

 Algent System
 Advertise
 Algent System
 Algent System
 Frequency

 Center Freq 2.452000000 GHz Broad Balance
 Frequency
 Algent System
 Taxet Balance
 Frequency

 Center Freq 2.452000000 GHz Broad Balance
 Frequency
 Algent System
 Mkr1 2.469 470 2 GHz
 Algent System
 Algent System

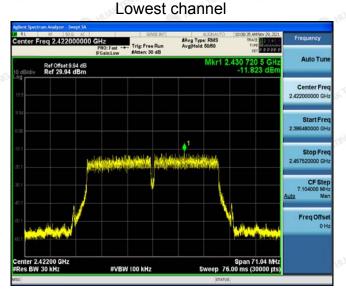
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



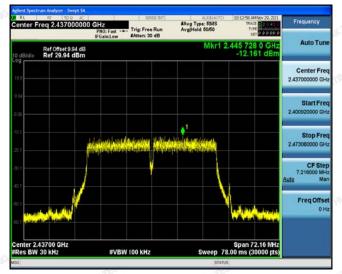
Page 29 of 68

Report No.: HK2111244558-E

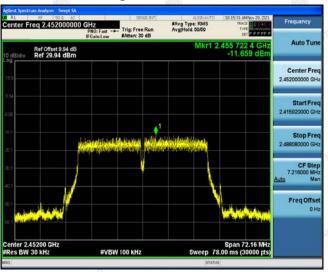
802.11n (HT40) Modulation



Middle channel



Highest channel



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

VCATION



4.6. Conducted Band Edge and Spurious Emission Measurement

Test Specification

Test Requirement:	FCC Part15 C Section 15	5.247 (d)			
Test Method:	KDB558074	HUAKTES	HUAKTES		
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).				
Test Setup:		EUT	MAXTEST		
Test Mode:	Spectrum Analyzer Transmitting mode with m	nodulation	0		
Test Procedure:	 Transmitting mode with modulation 1. The testing follows FCC KDB Publication 558074 D01 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 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). 5. Measure and record the results in the test report. 6. The RF fundamental frequency should be excluded 				
	against the limit line in		excluded		

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

HUAK Testing Lab TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



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).

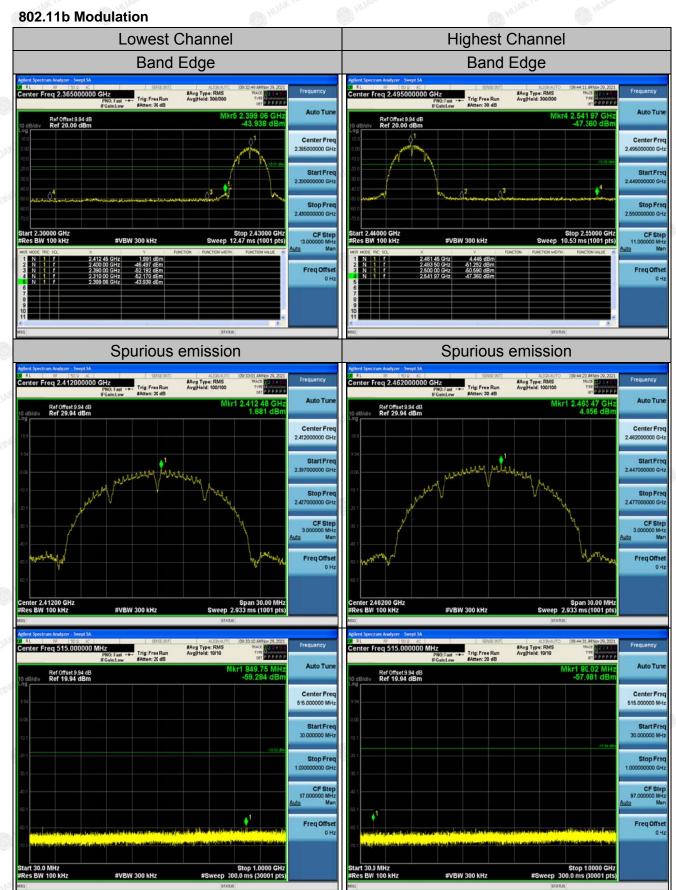
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



Page 32 of 68

FIF

Test Data



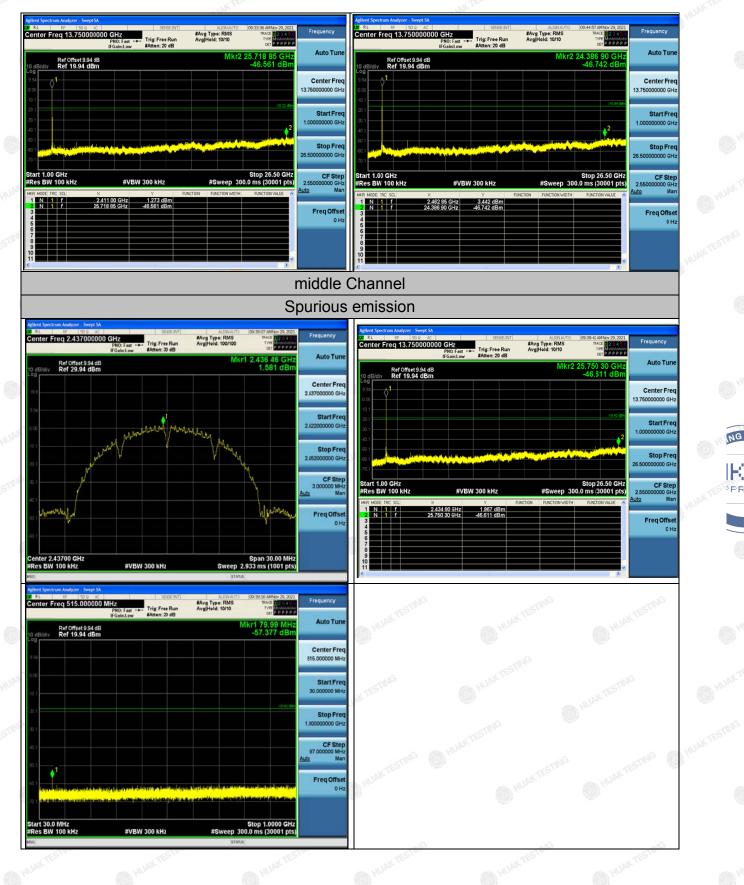
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

HUAK Testing Lab TEL: +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com



Page 33 of 68

Report No.: HK2111244558-E

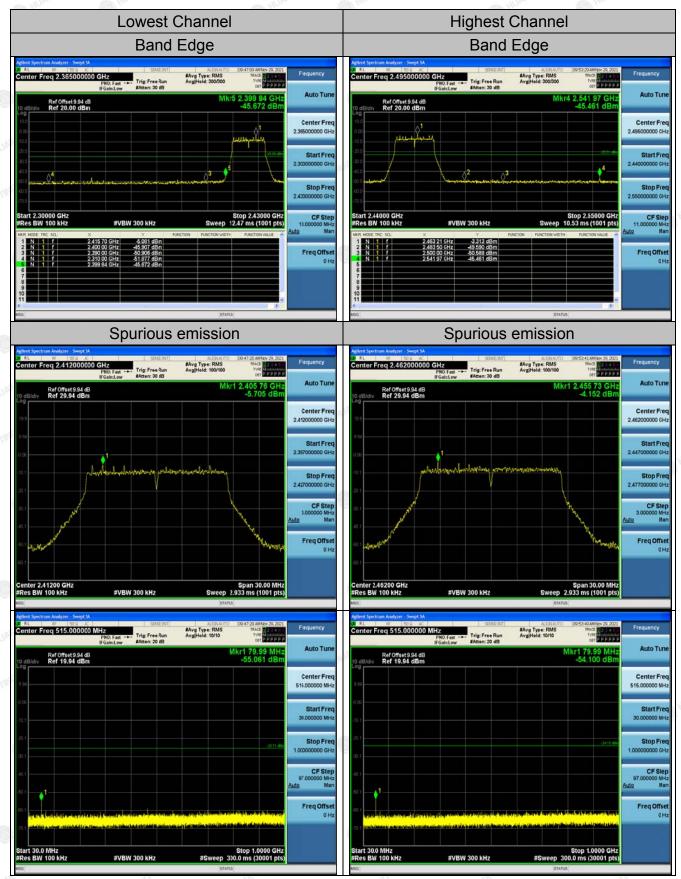


The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

HUAK Testing Lab TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



802.11g Modulation



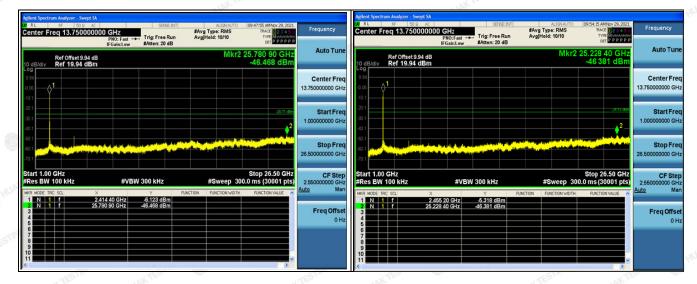
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

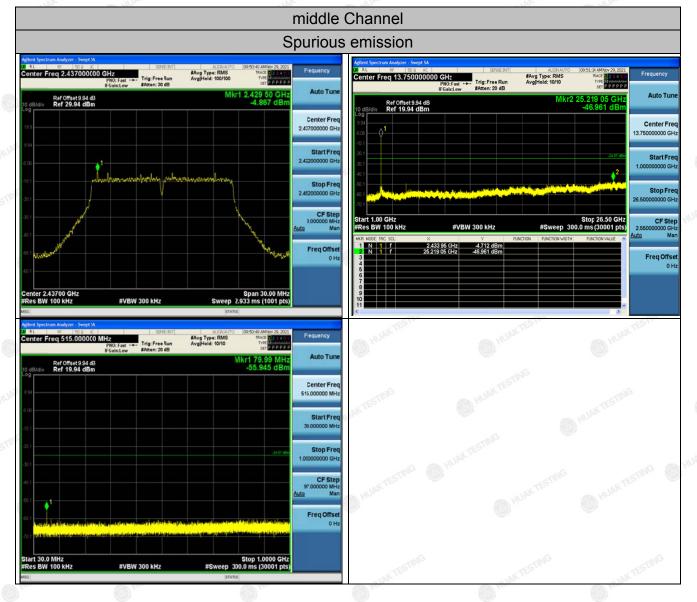
HUAK Testing Lab TEL: +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail: service@cer-mark.com



Page 35 of 68

Report No.: HK2111244558-E





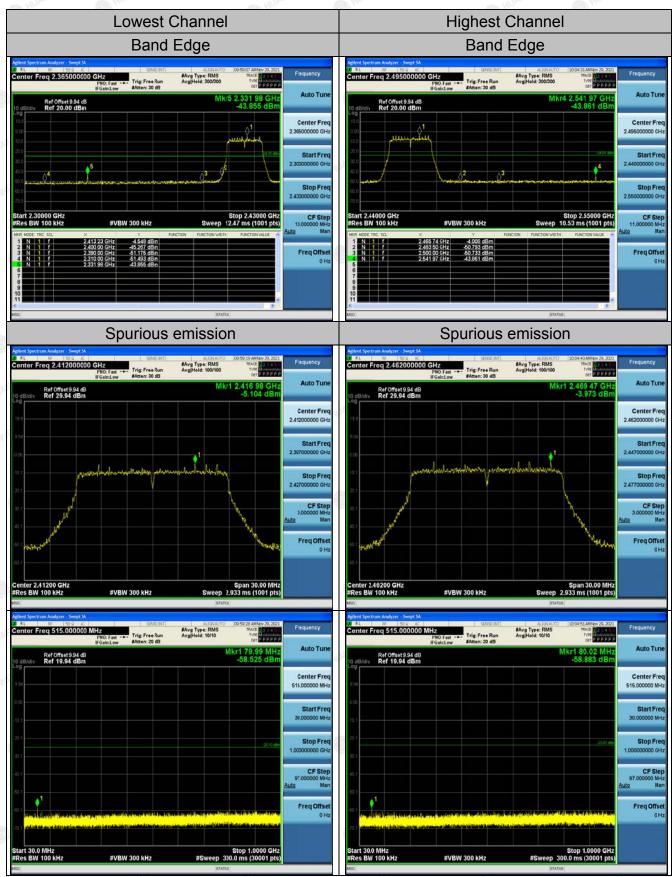
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

HUAK Testing Lab TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



FICATION

802.11n (HT20) Modulation



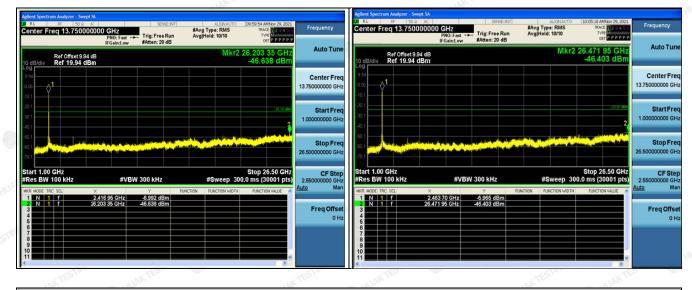
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

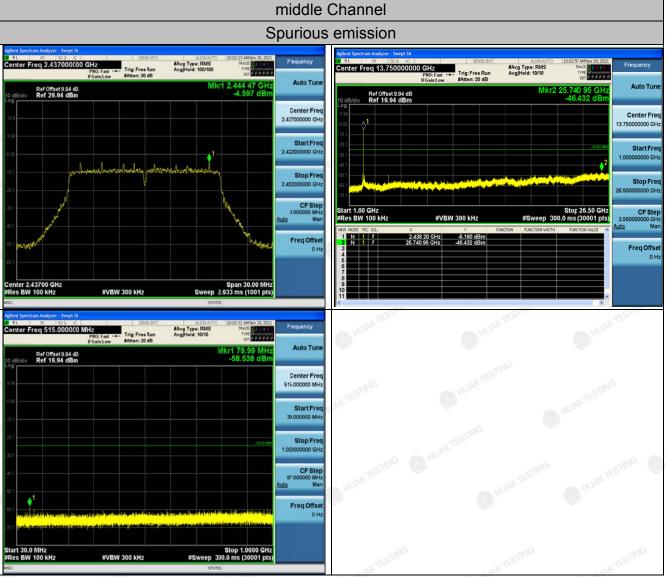
HUAK Testing Lab TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com



Page 37 of 68

Report No.: HK2111244558-E





The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

HUAK Testing Lab TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com



802.11n (HT40) Modulation



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

HUAK Testing Lab TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com

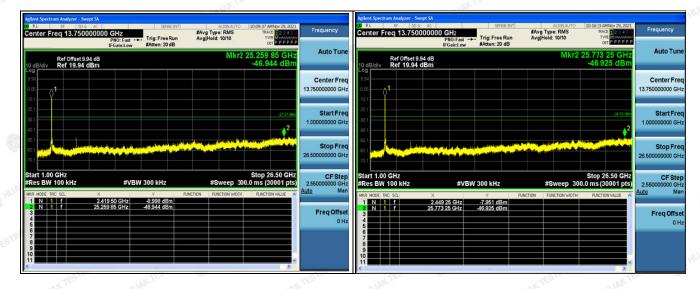


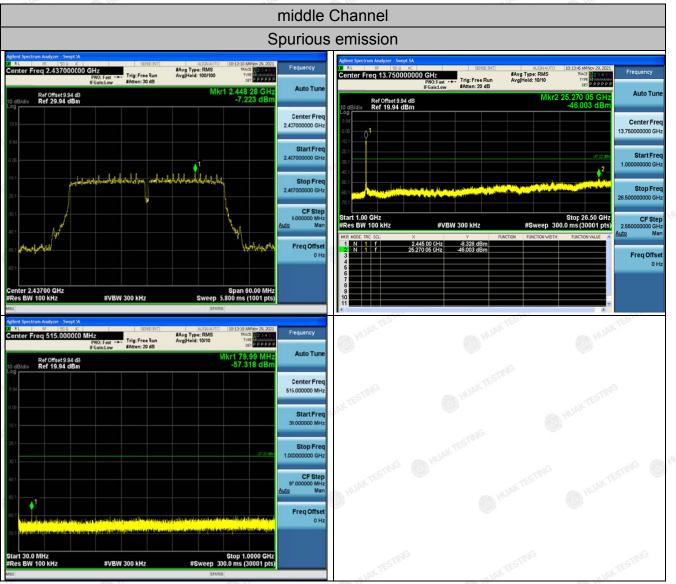
Page 39 of 68

Report No.: HK2111244558-E

NG

¦К





The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

HUAK Testing Lab TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com

4.7. Radiated Spurious Emission Measurement

Test Specification

Test Requirement:	FCC Part15	C Section	n 15.209			
Test Method:	ANSI C63.10): 2013		C HUAN		C HUAN
Frequency Range:	9 kHz to 25 (GHz		TING		
Measurement Distance:	3 m	TESTING		HUAKTES		TESTING
Antenna Polarization:	Horizontal &	Vertical			0	HOUR
Operation mode:	Transmitting	mode wi	th modul	ation		
	Frequency	Detector	RBW	VBW	ESTING	Remark
	9kHz- 150kHz	Quasi-pea	ik 200Hz	1kHz	Quas	si-peak Valu
Receiver Setup:	150kHz- 30MHz	Quasi-pea	ik 9kHz	30kHz	Quas	si-peak Valu
	30MHz-1GHz	Quasi-pea	ik 120KH	z 300KHz	Quas	si-peak Valu
	TING	Peak	1MHz	3MHz		eak Value
	Above 1GHz	Peak	1MHz	132		erage Value
.imit:	Frequency 0.009-0.490 0.490-1.705 1.705-30 30-88 88-216 216-960 Above 960		Field Strength (microvolts/meter) 2400/F(KHz) 24000/F(KHz) 30 100 150 200 500		Measurement Distance (meters 300 30 30 30 3 3 3 3 3 3 3 3 3 3	
	Frequency Above 1GHz	(micr	ld Strength ovolts/mete	Liistance		Detector Average
	For radiated	V	5000 s below	30MHz		Peak
Test setup:	EUT 0.8 m		- 3 m			
	30MHz to 10	GHz		Receiv	/er	

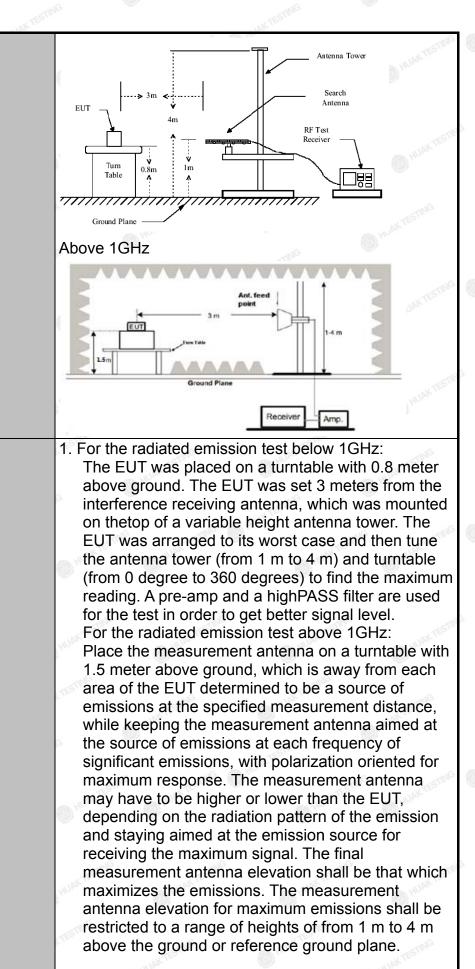
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

HUAK Testing Lab TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com



Page 41 of 68

Report No.: HK2111244558-E



Test Procedure:

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com

FICATION



	1 (D)*
	 Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level For measurement below 1GHz, If the emission level of the EUT measured by the peak detectoris 3 dB lower than the applicable limit, the peak emission
	level will be reported. Otherwise, theemission measurement will be repeated using the quasi-peak
	detector and reported. 5. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured;
	 (2) Set RBW=120 kHz for f < 1 GHz; VBW ≥RBW; Sweep = auto; Detector function = peak;Trace = max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for f 1 GHz
	for peak measurement. 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
	minimumtransmission duration over which the transmitter is on and is transmitting at its maximumpower control level for the tested mode of operation.
Test results:	PASS

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



Test Instruments

	Rac	liated 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).

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com

HUAK Testing Lab TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



Test Data

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



Suspe	ected List								
NO.	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Polarity
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	rolanty
1	80.4905	-19.35	43.33	23.98	40.00	16.02	100	346	Horizontal
2	134.8649	-18.87	39.99	21.12	43.50	22.38	100	224	Horizontal
3	242.6426	-13.73	40.68	26.95	46.00	19.05	100	294	Horizontal
4	330.0300	-11.59	40.66	29.07	46.00	16.93	100	153	Horizontal
5	445.5756	-9.18	43.14	33.96	46.00	12.04	100	7	Horizontal
6	566.9469	-6.49	37.59	31.10	46.00	14.90	100	336	Horizontal

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

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

HUAK Testing Lab TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



Page 45 of 68

ΑP

Vertical FCC PART 15 C CLASS B 110 100 90 80 70 60 FCC PART 15 C CLASS B-QP Limit 50 40 30 1 of 10th 1 marine tertholder 20 10 30M 100M 1G Frequency[Hz] QP Limit Vertical PK

QP Detector

	Suspe	cted List								
	NO.	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Polarity
	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	rolanty
	1	80.4905	-19.35	46.06	26.71	40.00	13.29	100	72	Vertical
Ś	2	134.8649	-18.87	49.32	30.45	43.50	13.05	100	305	Vertical
	3	188.2683	-16.16	44.58	28.42	43.50	15.08	100	236	Vertical
	4	256.2362	-13.47	40.56	27.09	46.00	18.91	100	128	Vertical
	5	432.9530	-9.72	40.58	30.86	46.00	15.14	100	82	Vertical
	6	566.9469	-6.49	38.29	31.80	46.00	14.20	100	228	Vertical

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

Harmonics and Spurious Emissions

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)
ALTESTIC	INTESTI INTESTI	14KTESTI
() ¹⁰	() ¹⁰ () ¹⁰	• · · · · · · · · · · · · · · · · · · ·
.v6 <u></u>		
	all TESTING	101 TESTIN

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

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



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	57.25	-3.64	53.61	74	-20.39	peak
4824	42.63	-3.64	38.99	54	-15.01	AVG
7236	55.03	-0.95	54.08	74	-19.92	peak
7236	42.05	-0.95	41.1	54	-12.9	AVG
Remark: Factor	= Antenna Factor ·	+ Cable Loss	– Pre-amplifier.	NG	TING	

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB) 🕚	Туре
4824	58.63	-3.64	54.99	74	-19.01	peak
4824	45.53	-3.64	41.89	54	-12.11	AVG
7236	55.68	-0.95	54.73	74	-19.27	peak
7236	41.52	-0.95	40.57	54	-13.43	AVG

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com

HUAK Testing Lab TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



Page 47 of 68

MID CH6 (802.11b Mode)/2437

Horizontal:

dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
				(ub)	A HOL
58.84	-3.51	55.33	74	-18.67	peak
42.37	-3.51	38.86	54	-15.14	AVG
56.1	-0.82	55.28	74	-18.72 🌑	peak
38.75	-0.82	37.93	54	-16.07	AVG
	42.37 56.1 38.75	56.1 -0.82 38.75 -0.82	56.1 -0.82 55.28 38.75 -0.82 37.93	56.1 -0.82 55.28 74	56.1 -0.82 55.28 74 -18.72 38.75 -0.82 37.93 54 -16.07

Vertical:

TEST	Frequency	Reading Result	Factor	Emission Level	🔎 Limits	Margin	Detector Type
	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
NG	4874	56.24	-3.51	52.73	74	-21.27	peak
	4874	41.96	-3.51	38.45	54	-15.55	AVG
	7311	56.21	-0.82	55.39	74	-18.61	peak
	7311	39.07	-0.82	38.25	54	-15.75	AVG
Do	mark: Eactor	= Antenna Factor	+ Cable Loss	Dro amplifior		AK TESTAN	- UNAK TES

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

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



HIGH CH11 (802.11b Mode)/2462

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	^{∭0} (dBµV/m)	(dB)	Туре
4924	58.81	-3.43	55.38	74 🕚	-18.62	peak
4924	44.05	-3.43	40.62	54	-13.38	AVG
7386	53.94	-0.75	53.19	74	-20.81	peak
7386	41.88	-0.75	41.13	54	-12.87	AVG

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
57.61	-3.43	54.18	74	-19.82	peak
43.93	-3.43	40.5	54	-13.5	AVG
54.43	-0.75	53.68	74	-20.32	peak
38.58	-0.75	37.83	54	-16.17	AVG
	(dBµV) 57.61 43.93 54.43	(dBµV) (dB) 57.61 -3.43 43.93 -3.43 54.43 -0.75	(dBµV) (dB) (dBµV/m) 57.61 -3.43 54.18 43.93 -3.43 40.5 54.43 -0.75 53.68	(dBµV) (dB) (dBµV/m) (dBµV/m) 57.61 -3.43 54.18 74 43.93 -3.43 40.5 54 54.43 -0.75 53.68 74	(dBµV) (dB) (dBµV/m) (dBµV/m) (dB) 57.61 -3.43 54.18 74 -19.82 43.93 -3.43 40.5 54 -13.5 54.43 -0.75 53.68 74 -20.32

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.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.con

HUAK Testing Lab TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



LOW CH1 (802.11g Mode)/2412

Horizontal:

(dBµV/m) 74	(dB) -21.66	Type peak
	-21.66	peak
54	-13.37	AVG
74	-21.75	peak
54	-14.17	AVG
	74	74 -21.75

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	-20.88	peak
4824	44.01	-3.64	40.37	54	-13.63	AVG
7236	55.15	-0.95	54.2	74	-19.8	peak
7236	39.08	-0.95	38.13	54	-15.87 ⁰	AVG

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



MID CH6 (802.11g Mode)/2437

Horizontal:

				-The	Detector
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
58.49	-3.51	54.98	74	-19.02	peak
45.21	-3.51	41.7	54	-12.3	AVG
55.71	-0.82	54.89	74	-19.11	peak
41.55	-0.82	40.73	54	-13.27	AVG
	58.49 45.21 55.71	58.49 -3.51 45.21 -3.51 55.71 -0.82	58.49 -3.51 54.98 45.21 -3.51 41.7 55.71 -0.82 54.89	58.49 -3.51 54.98 74 45.21 -3.51 41.7 54 55.71 -0.82 54.89 74	58.49 -3.51 54.98 74 -19.02 45.21 -3.51 41.7 54 -12.3 55.71 -0.82 54.89 74 -19.11

Vertical:

Frequency	Reading Result	Factor	Emission Level	🥬 Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
o ^{se} 4874	56.31	-3.51	52.8	74	-21.2	peak
4874	44.54	-3.51	41.03	54	-12.97	AVG
7311	54.65	-0.82	53.83	74	-20.17	peak
7311	39.15	-0.82	38.33	54	-15.67	AVG
TESTING	39.15	15	NG	54	-15.67	A

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

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.