

FCC TEST REPORT

Report No.: HK2109083408-1E

Test report
On Behalf of
Epos Now LLC
For

Touch POS System

Model No.: PRO-C15Wa, PRO-C15Wb, PRO-C15Wc

FCC ID: 2A3DN-PRO-C15WA

Prepared for: Epos Now LLC

The Chase Plaza, South Tower, 189 S Orange Ave, Ste 2010, Orlando FL 32801,

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: Sept. 12, 2021 ~ Oct. 08, 2021

Date of Report: Oct. 08, 2021

Report Number: HK2109083408-1E



TEST RESULT CERTIFICATION

Report No.: HK2109083408-1E

Applicant's name: Epos Now LLC

. The Chase Plaza, South Tower, 189 S Orange Ave, Ste 2010,

Orlando FL 32801, United States

Manufacture's Name.....: Epos Now LLC

Address...... The Chase Plaza, South Tower, 189 S Orange Ave, Ste 2010,

Orlando FL 32801, United States

Product description

Trade Mark: N/A

Product name: Touch POS System

Model and/or type reference : PRO-C15Wa, PRO-C15Wb, PRO-C15Wc

Standards FCC Rules and Regulations Part 15 Subpart C Section 15.247

ANSI C63.10: 2013

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Date of Test

Date (s) of performance of tests Sept. 12, 2021 ~ Oct. 08, 2021

Test Result..... Pass

Testing Engineer

(Gary Qian)

Technical Manager

(Eden Hu)

Authorized Signatory:

(Jason Zhou)

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** Modified History **

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Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Oct. 08, 2021	Jason Zhou
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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	PASS
Conducted Peak Output Power	§15.247 (b)(3)	PASS
6dB Emission Bandwidth	§15.247 (a)(2)	PASS
Power Spectral Density	§15.247 (e)	PASS
Band Edge	1§5.247(d)	PASS
Spurious Emission	§15.205/§15.209	PASS

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.

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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 %.

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

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2. EUT Description

2.1. GENERAL DESCRIPTION OF EUT

-1G	Dr. 814
Equipment	Touch POS System
Model Name	PRO-C15Wa
Serial Model:	PRO-C15Wb, PRO-C15Wc
Model Difference	All model's the function, software and electric circuit are the same, only with a product color, appearance and model named different. Test sample model: PRO-C15Wa
FCC ID	2A3DN-PRO-C15WA
Antenna Type	Internal Antenna
Antenna Gain	3dBi The Marketon Mar
Operation frequency	802.11b/g/n 20:2412~2462 MHz 802.11n 40: 2422~2452MHz
Number of Channels	802.11b/g/n20: 11CH 802.11n 40: 7CH
Modulation Type	CCK/OFDM/DBPSK/DAPSK
Power Source	DC 12V 5.0A from adapter
Power Rating	DC 12V 5.0A from adapter

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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	.C.	

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Channel List For 802.11n (HT40)						HUAKTES	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
_{aNG}	CINE OF	04	2427	07	2442		
W	AKTE	05	2432	08	2447	TESTIN	THUAK TE
03	2422	06	2437	09	2452	(1) W	

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

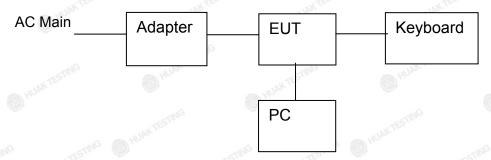
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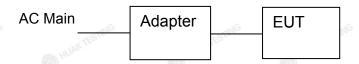


2.3. DESCRIPTION OF TEST SETUP

Operation of EUT during conducted testing and radiation below 1GHz testing:



Operation of EUT during Above1GHz Radiation testing:



 Adapter information Model: AC ADAPTER

Input: 100~240V ~ 50/60Hz 1.7A

Output: 12V 5.0A 60.0W

PC information Model: TP00067A

Input: DC 20V, 2.25-3.25A Output: 5VDC, 0.5A

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. Genera Information

3.1. Test environment and mode

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

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

Final Test Mode:

Operation 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.

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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
4	1	IG I HUNYTEST	I CIME	I HUAK TESTIN	I STING

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.

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4. Test Results and Measurement Data

4.1. Conducted Emission

Test Specification

200	-40	4	411,			
Test Requirement:	FCC Part15 C Section	15.207	HUAKTES			
Test Method:	ANSI C63.10:2013	ANSI C63.10:2013				
Frequency Range:	150 kHz to 30 MHz	O HUAKIE	AK TESTING			
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	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					
	Reference	ce Plane	-IG TESTIN			
Test Setup:	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:	 Charging + transmitting with modulation 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 conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement. 					
Test Result:	PASS	HUAKTE	HUAKT			



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	

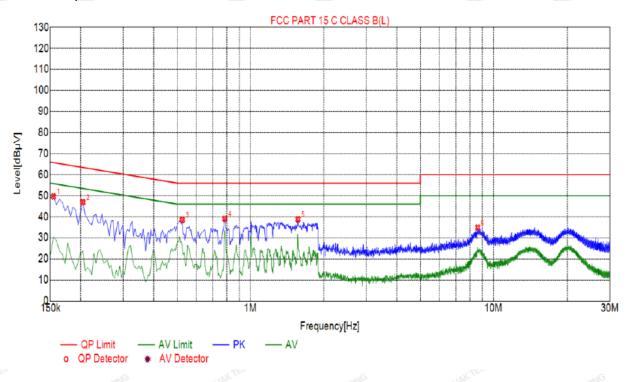
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Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



4.2. Test Result

Test Specification: Line



Sus	Suspected List								
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре	
1	0.1545	49.64	20.03	65.75	16.11	29.61	PK	L	
2	0.2040	46.96	20.04	63.45	16.49	26.92	PK	L	
3	0.5235	38.54	20.04	56.00	17.46	18.50	PK	L	
4	0.7845	39.05	20.05	56.00	16.95	19.00	PK	L	
5	1.5675	38.81	20.11	56.00	17.19	18.70	PK	L	
6	8.6190	34.84	20.12	60.00	25.16	14.72	PK	L	

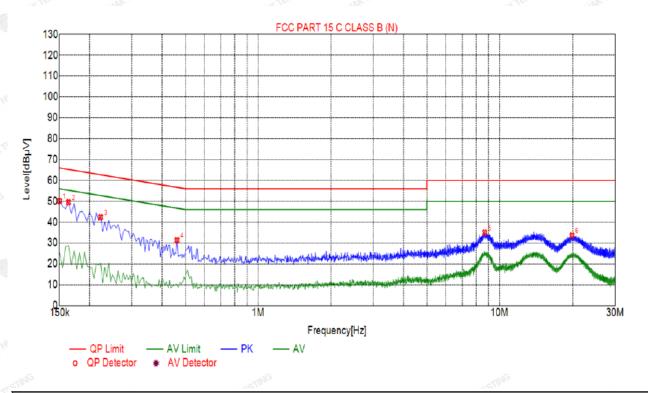
Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss Level=Test receiver reading + correction factor

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Test Specification: Neutral



Sus	Suspected List								
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре	
1	0.1500	50.15	20.03	66.00	15.85	30.12	PK	N	
2	0.1635	49.52	19.98	65.28	15.76	29.54	PK	N	
3	0.2220	42.35	20.04	62.74	20.39	22.31	PK	N	
4	0.4605	31.32	20.04	56.68	25.36	11.28	PK	N	
5	8.6910	34.95	20.12	60.00	25.05	14.83	PK	N	
6	19.8465	33.59	20.10	60.00	26.41	13.49	PK	N	

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss Level=Test receiver reading + correction factor

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 HUNDER				
Limit:	30dBm	NY TESTING				
Test Setup:	Power meter	EUT MAX TESTING				
Test Mode:	Transmitting mode with modulation					
Test Procedure:	 The testing follows the Measurement Procedure of FCC KDB 558074 D01 15.247 Meas Guidance v05r02. The RF output of EUT was connected to the power meter 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. Measure the Peak output power and record the result in the test report. 					
Test Result:	PASS	HUAKTESTING				

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

ESTING	ESTING	TX 802.11b Mode	TSTING TSTING
Test	Frequency	Maximum Peak Conducted Output Power	LIMIT
Channel	(MHz)	(dBm)	dBm
CH01	2412	15.93	30
CH06	2437	15.93	30
CH11	2462	15.39	30
AUAK TESTAM	HUANTEST	TX 802.11g Mode	HAKTESTO
CH01	2412	13.70	30
CH06	2437	14.19	30
CH11	2462	14.23	30 HUANCIE
in G		TX 802.11n20 Mode	SING
CH01	2412	14.55	30
CH06	2437	14.56	30
CH11	2462	14.17 MARCHES	30
AUAK TESTING	HUAKTES	TX 802.11n40 Mode	HUAKTESTIN
CH03	2422	13.83	30
CH06	2437	13.78	30
CH09	2452	14.30	JUAN TES

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4.4. Emission Bandwidth

Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)						
Test Method:	KDB 558074	KDB 558074					
Limit:	>500kHz	. AN TESTING	Ola				
Test Setup:		•	O HUANTES IN				
	Spectrum Analyzer EUT						
Test Mode:	Transmitting mode with i	Transmitting mode with modulation					
Test Procedure:	 The testing follows FCC KDB Publication 558074 D01 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 THE	O HUA	NG 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).



Test data

	12007					
Test channel	6dB Emission Bandwidth (MHz)					
root onarmor	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	10.120	16.400	17.600	35.280		
Middle	10.120	16.400	17.400	35.840		
Highest	10.160	16.440	17.320	35.840		
Limit:	TING		>500k	9		
Test Result:	MIG HUAKTES	on the	PASS	THE HUAN		

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Test plots as follows:

802.11b Modulation

Lowest channel

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Middle channel



Highest channel





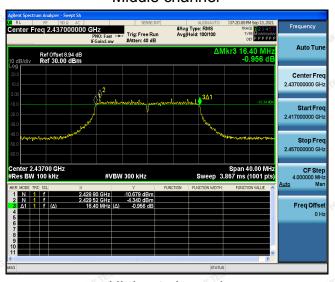
802.11g Modulation

Lowest channel

Report No.: HK2109083408-1E



Middle channel



Highest channel





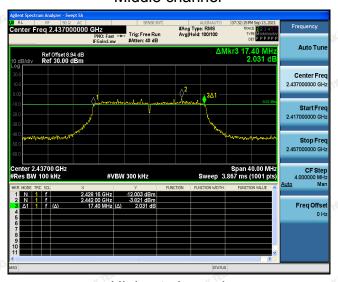
802.11n (HT20) Modulation

Lowest channel

Report No.: HK2109083408-1E



Middle channel



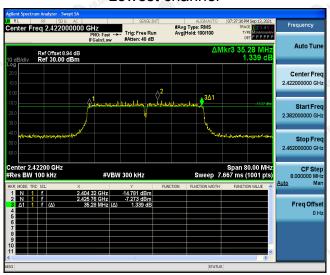
Highest channel



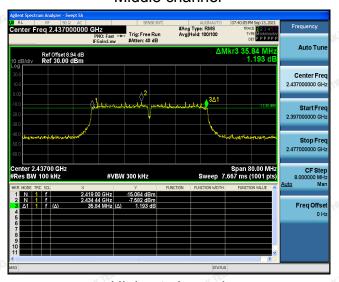
802.11n (HT40) Modulation

Lowest channel

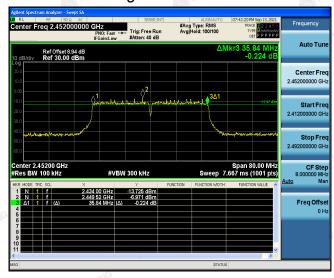
Report No.: HK2109083408-1E



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 EUT					
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					

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	-0.33	-10.33
802.11b	Middle	0.41	-9.59
	Highest	-0.83	-10.83
	Lowest	-9.65	-19.65
802.11g	Middle	-9.37	-19.37
	Highest	-9.06	-19.06
	Lowest	-8.86	-18.86
802.11n(H20)	Middle	-9.29	-19.29
	Highest	-9.06	-19.06
	Lowest	-12.62	-22.62
802.11n(H40)	Middle	-12.9	-22.9
	Highest	-12.07	-22.07
PSD test result (dBm/3	BkHz)= PSD test	t result (dBm/30kHz)-10	
Limit: 8dBm/3kHz			
Test Result:	TES	PASS	W TESTING

Test plots as follows:



802.11b Modulation

Lowest channel

Report No.: HK2109083408-1E



Middle channel



Highest channel

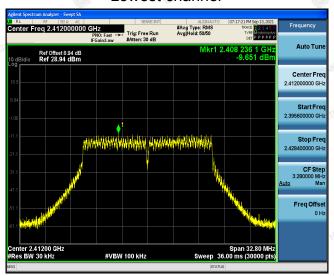




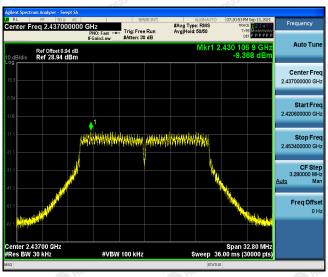
802.11g Modulation

Lowest channel

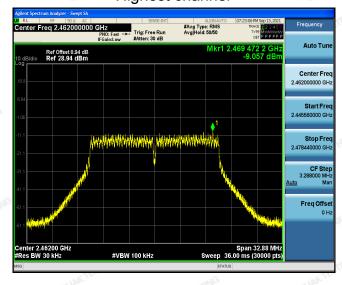
Report No.: HK2109083408-1E



Middle channel



Highest channel

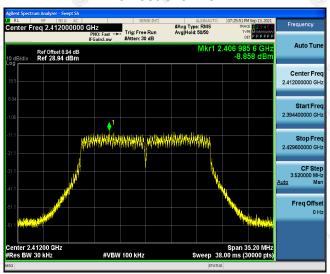




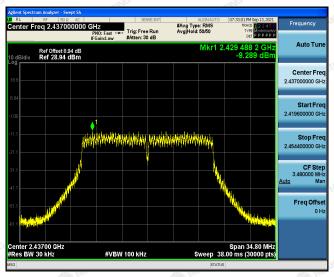
802.11n (HT20) Modulation

Lowest channel

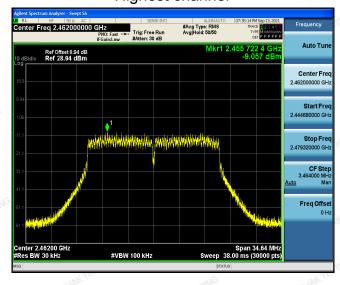
Report No.: HK2109083408-1E



Middle channel



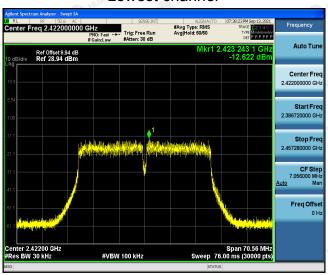
Highest channel



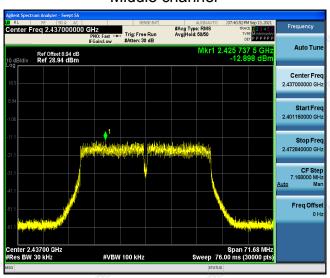
802.11n (HT40) Modulation

Lowest channel

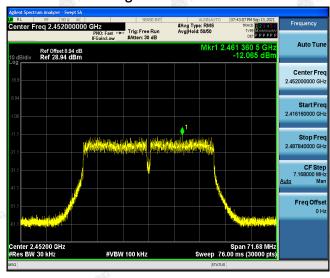
Report No.: HK2109083408-1E



Middle channel



Highest channel



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4.6. Conducted Band Edge and Spurious Emission Measurement

Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	KDB558074				
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:					
	Spectrum Analyzer EUT				
Test Mode:	Transmitting mode with modulation				
Test Procedure:	 Transmitting mode with modulation The testing follows 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. 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. The RF fundamental frequency should be excluded against the limit line in the operating frequency band. 				
	· · · · · · · · · · · · · · · · · · ·				

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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	
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	

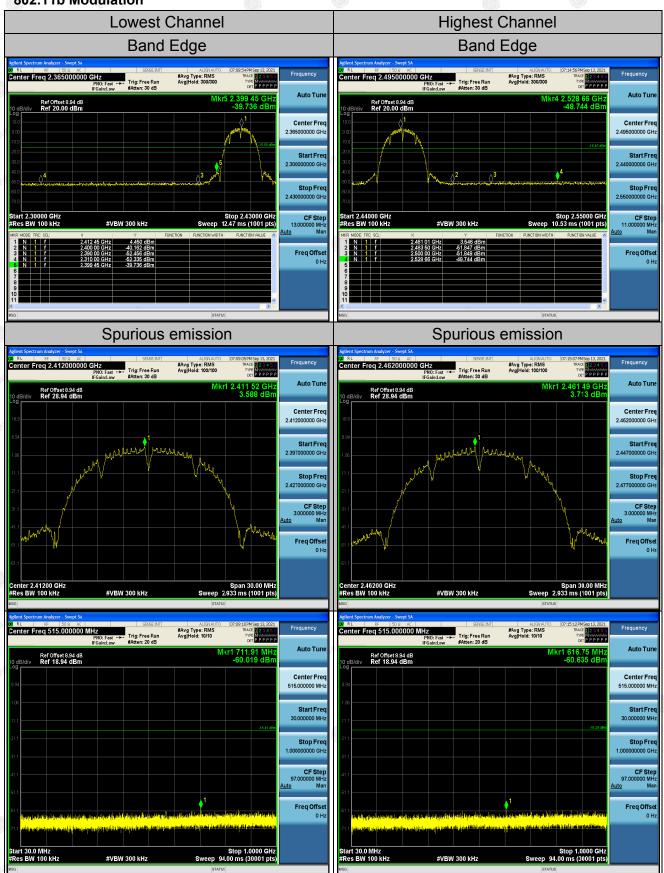
Report No.: HK2109083408-1E

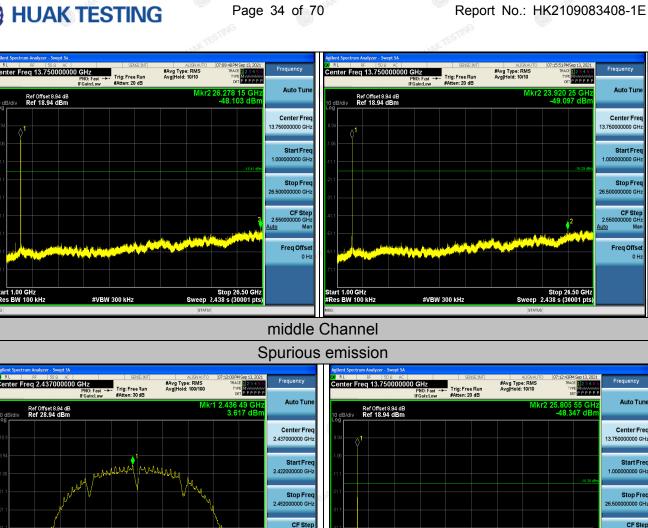
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

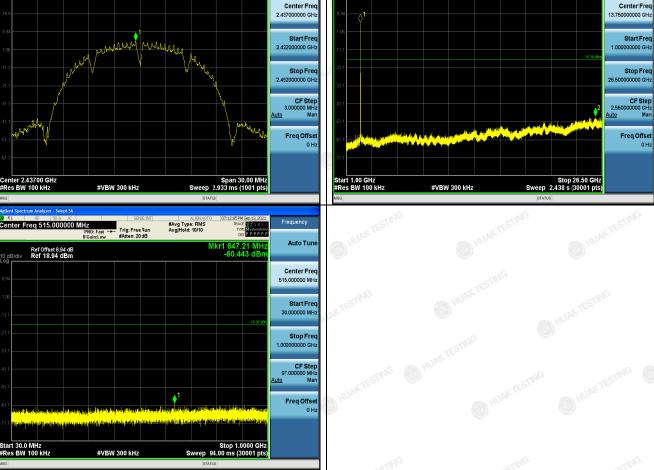


Test Data

802.11b Modulation









802.11g Modulation



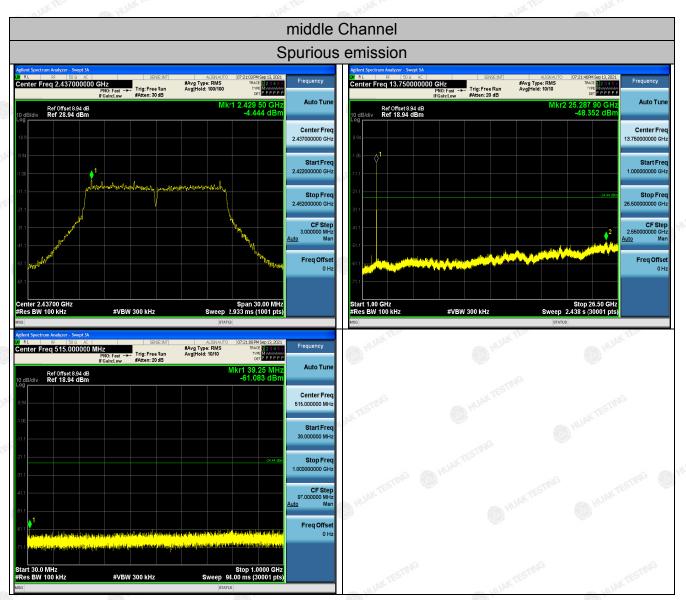
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1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



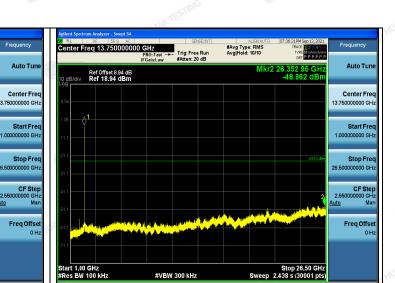


802.11n (HT20) Modulation

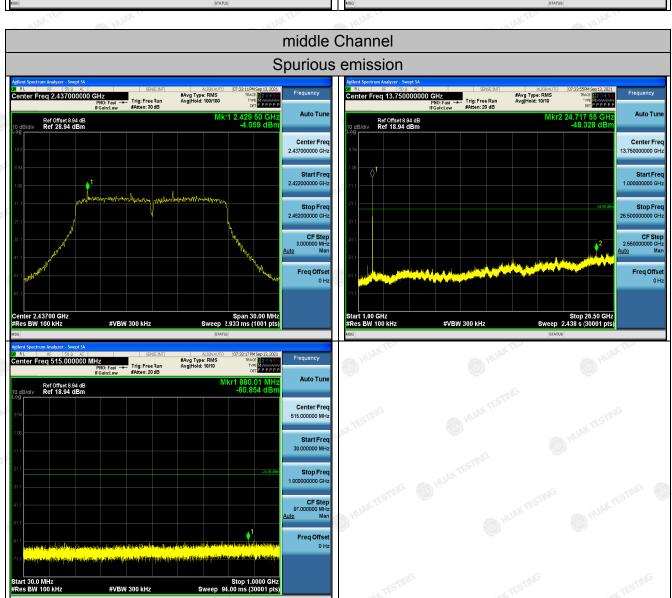


ter Freq 13.750000000 GH:

Ref Offset 8.94 dB Ref 18.94 dBm

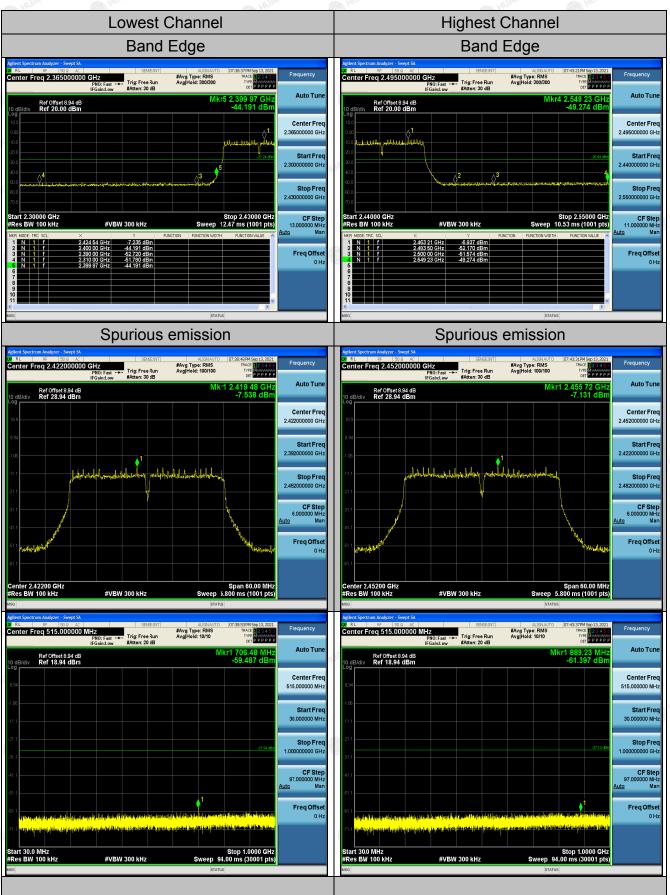


Report No.: HK2109083408-1E



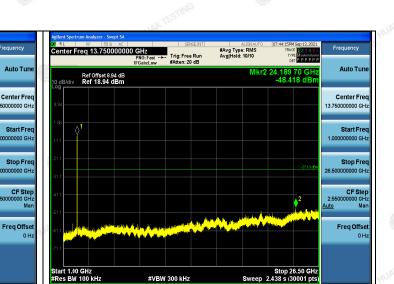


802.11n (HT40) Modulation

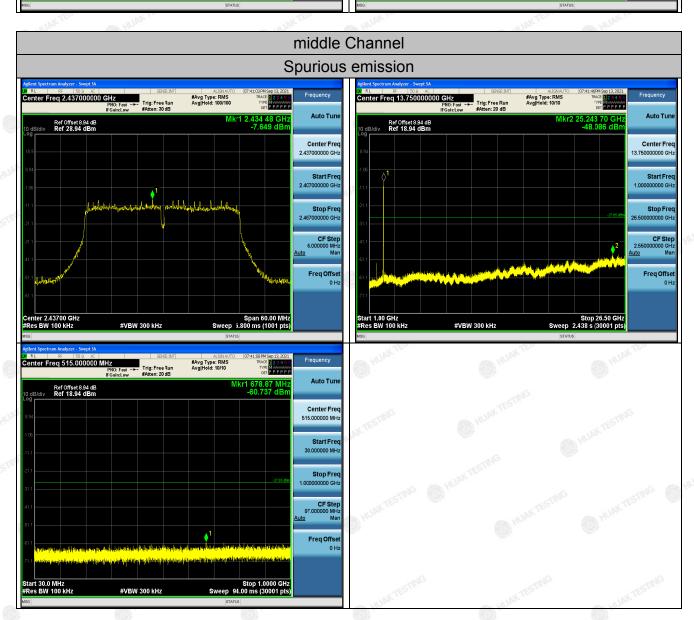


ter Freq 13.750000000 GH

Ref Offset 8.94 dB Ref 18.94 dBm



Report No.: HK2109083408-1E





4.7. Radiated Spurious Emission Measurement

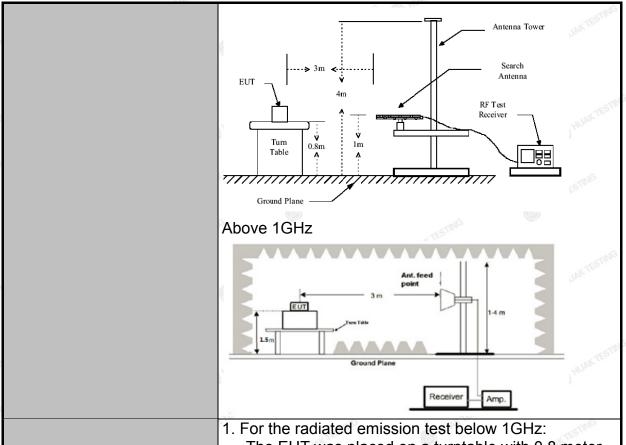
Test Specification

	_						
Test Requirement:	FCC Part15	C Section	on .	15.209	TESTI	JG	TESTIN
Test Method:	ANSI C63.10	0: 2013		•	HUAN		MUAN
Frequency Range:	9 kHz to 25 (GHz			TING		
Measurement Distance:	3 m	TESTING		AN MU	AKTES		TESTING
Antenna Polarization:	Horizontal &	Vertica				0	HUAR
Operation mode:	Transmitting	mode v	vith	modulat	ion		
	Frequency	Detecto	or	RBW	RBW VBW		Remark
	9kHz- 150kHz	Quasi-pe		200Hz	1kHz	+	si-peak Value
Receiver Setup:	150kHz- 30MHz	Quasi-pe	eak	9kHz	30kHz	Quas	si-peak Value
•	30MHz-1GHz	Quasi-pe	eak	120KHz	300KHz	Quas	si-peak Value
	Above 1GHz	Peak	STING	1MHz	3MHz		eak Value
	Above IGIIZ	Peak		1MHz	10Hz	Ave	erage Value
	Frequen	су		Field Strength (microvolts/meter)		Measurement Distance (meters)	
	0.009-0.4	190		2400/F(k	(Hz)	300	
	0.490-1.7			24000/F(KHz)	30	
	1.705-3			30	We .		30
	30-88			100			3
Limit:	88-216 216-96		III G	150 200		TING	3
Lillit.	Above 960			500		3	
		9	<u> </u>				
	Frequency			Strength olts/meter)	Measurement Distance (meters)		Detector
	Above 1GHz	- FUAK "		500	HUAK 123	Average	
	Above IGHZ		5	5000	3		Peak
Test setup:	For radiated	Tw	cn Table	below 30	RX Anto		AND STREET

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Test Procedure:

The EUT was placed on a turntable with 0.8 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on thetop of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a highPASS filter are used for the test in order to get better signal level. For the radiated emission test above 1GHz: Place the measurement antenna on a turntable with 1.5 meter above ground, which is away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. 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 ground plane.





101	, in the second
	 Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
	4. 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 MILITARY OF THE PASS



Test Instruments

Radiated Emission Test Site (966)									
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).

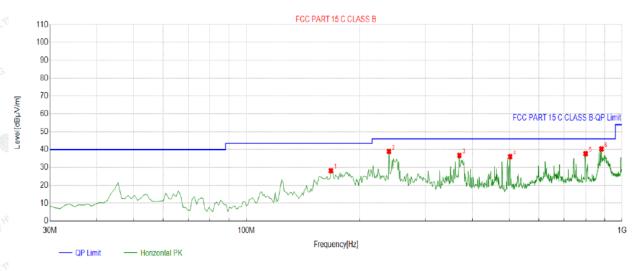


Test Data

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

Below 1GHz

Horizontal



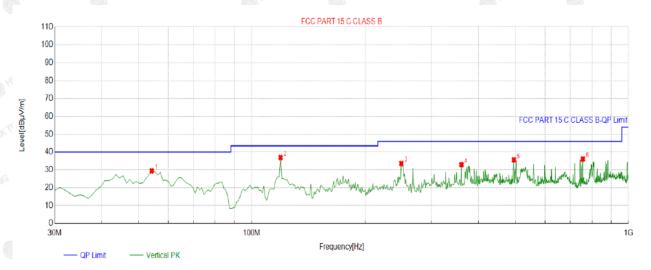
QP Detector

Ī	Suspe	Suspected List										
>	NO	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Delevity		
1	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity		
Ī	1	167.8779	-17.50	45.72	28.22	43.50	15.28	100	47	Horizontal		
	2	239.7297	-13.87	52.86	38.99	46.00	7.01	100	86	Horizontal		
	3	368.8689	-11.04	47.84	36.80	46.00	9.20	100	170	Horizontal		
	4	503.8338	-8.19	44.28	36.09	46.00	9.91	100	312	Horizontal		
	5	799.9800	-3.12	40.88	37.76	46.00	8.24	100	126	Horizontal		
	6	881.5415	-2.04	42.38	40.34	46.00	5.66	100	59	Horizontal		

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







QP Detector

Suspe	Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	54.2743	-14.30	43.78	29.48	40.00	10.52	100	116	Vertical	
2	119.3293	-16.99	53.89	36.90	43.50	6.60	100	122	Vertical	
3	249.4394	-13.42	47.09	33.67	46.00	12.33	100	21	Vertical	
4	360.1301	-11.34	44.28	32.94	46.00	13.06	100	1	Vertical	
5	496.0661	-8.40	43.99	35.59	46.00	10.41	100	328	Vertical	
6	756.2863	-3.57	39.72	36.15	46.00	9.85	100	354	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)
<u> </u>		
5 NG	TSTING	TESTING
TESTING H	AK .	HUAK .
HUAK	14 July	

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



Above 1GHz

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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	58.61	-3.64	54.97	74	-19.03	peak
4824	44.27	-3.64	40.63	54	-13.37	AVG
7236	57.14	-0.95	56.19	74	-17.81	peak
7236	43.79	-0.95	42.84	54	-11.16	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	59.67	-3.64	56.03	74	-17.97	peak
4824	46.35	-3.64	42.71	54	-11.29	AVG
7236	56.89	-0.95	55.94	74	-18.06	peak
7236	43.35	-0.95	42.4	54	-11.6	AVG

MID CH6 (802.11b Mode)/2437

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	60.35	-3.51	56.84	74	-17.16	peak
4874	45.72	-3.51	42.21	54	-11.79	AVG
7311	57.47	-0.82	56.65	74	-17.35	peak
7311	42.38	-0.82	41.56	54	-12.44	AVG
Remark: Factor	r = Antenna Factor	+ Cable Loss –	Pre-amplifier.	io Diro	TESTING	V TESTI

Vertical:

Frequency		Reading Result	Factor	Emission Level	Limits	Margin	Detector
	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
NG	4874	59.37	-3.51	55.86	74	-18.14	peak
	4874	45.63	-3.51	42.12	54 HUA	-11.88	AVG
	7311	58.47	-0.82	57.65	74	-16.35	peak
	7311	42.35	-0.82	41.53	54	-12.47	AVG
	GTMG	TESTING (III)	-6	MG TESTIN		GTING	KE.

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



HIGH CH11 (802.11b Mode)/2462

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	[©] (dBμV/m)	(dB)	Type
4924	59.67	-3.43	56.24	74	-17.76	peak
4924	45.12	-3.43	41.69	54	-12.31	AVG
7386	56.82	-0.75	56.07	74 HUM	-17.93	peak
7386	42.08	-0.75	41.33	54	-12.67	AVG

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

Vertical:

(dBµV)	(dB)	∍ (dBµV/m)	(dD:///pa)	(15)	Туре
1.		(αΒμ τ/)	(dBµV/m)	(dB)	Туре
58.96	-3.43	55.53	74	-18.47	peak
45.16	-3.43	41.73	54	-12.27	AVG
55.37	-0.75	54.62	74	-19.38	peak
41.25	-0.75	40.5	54	-13.5	AVG
	45.16 55.37	45.16 -3.43 55.37 -0.75	45.16 -3.43 41.73 55.37 -0.75 54.62	45.16 -3.43 41.73 54 55.37 -0.75 54.62 74	45.16 -3.43 41.73 54 -12.27 55.37 -0.75 54.62 74 -19.38

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.



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	58.79	-3.64	55.15	74	-18.85	peak
4824	46.38	-3.64	42.74	54	-11.26	AVG
7236	55.72	-0.95	54.77	74	-19.23	peak
7236	42.65	-0.95	41.7	54	-12.3	AVG
Remark: Factor	r = Antenna Factor -	Cable Loss	- Pre-amplifier.		NY TESTING	"IAK TESTING

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
4824	58.07	-3.64	54.43	74	-19.57	peak
4824	45.92	-3.64	42.28	54	-11.72	AVG
7236	56.24	-0.95	55.29	74	-18.71	peak
7236	42.19	-0.95	41.24	54	-12.76	AVG

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



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	59.37	-3.51	55.86	74	-18.14	peak
4874	47.14	-3.51	43.63	54	-10.37	AVG
7311	56.34	-0.82	55.52	74	-18.48	peak
7311	42.35	-0.82	41.53	54	-12.47	AVG

Report No.: HK2109083408-1E

Vertical:

Reading Result	Result Factor Emission Lev	Emission Level	s Limits	Margin	Detector
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
58.31	-3.51	54.8	74	-19.2	peak
46.27	-3.51	42.76	54	-11.24	AVG
57.14	-0.82	56.32	74	-17.68	peak
41.25	-0.82	40.43	54	-13.57	AVG
	(dBµV) 58.31 46.27 57.14	(dBµV) (dB) 58.31 -3.51 46.27 -3.51 57.14 -0.82	(dBμV) (dB) (dBμV/m) 58.31 -3.51 54.8 46.27 -3.51 42.76 57.14 -0.82 56.32	(dBμV) (dB) (dBμV/m) (dBμV/m) 58.31 -3.51 54.8 74 46.27 -3.51 42.76 54 57.14 -0.82 56.32 74	(dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 58.31 -3.51 54.8 74 -19.2 46.27 -3.51 42.76 54 -11.24 57.14 -0.82 56.32 74 -17.68

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



HIGH CH11 (802.11g Mode)/2462

Report No.: HK2109083408-1E

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4924	58.79	-3.43	55.36	74	-18.64	peak
رس ^{ات} 4924	45.65	-3.43	42.22	54	-11.78	AVG
7386	56.23	-0.75	55.48	74	-18.52	peak
7386	42.38	-0.75	41.63	54	-12.37	AVG
Remark: Factor	= Antenna Factor	+ Cable Loss -	Pre-amplifier	- WAKTES	L	

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	。(dΒμV/m)	(dB)	Туре
4924	58.96	-3.43	55.53	74	-18.47	peak
4924	47.15	-3.43	43.72	54	-10.28	AVG
7386	56	-0.75	55.25	74	-18.75	peak
7386	43.24	-0.75	42.49	54	-11.51	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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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	58.36	-3.64	54.72	74	-19.28	peak
4824	42.35	-3.64	38.71	54	-15.29	AVG
7236	56.34	-0.95	55.39	74	-18.61	peak
7236	42.01	-0.95	41.06	54	-12.94	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	60.38	-3.64	56.74	74	-17.26	peak
4824	45.72	-3.64	42.08	54	-11.92	AVG
7236	56.24	-0.95	55.29	74	-18.71	peak
7236	43.16	-0.95	42.21	54	-11.79	AVG
-c-Tilda	75		-TING		-CLIA-	165

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

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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	58.79	-3.51	55.28	74.00	-18.72	peak
4874	45.01	-3.51	41.50	54.00	-12.50	AVG
7311	56.32	-0.82	55.50	74.00	-18.50	peak
7311	43.25	-0.82	42.43	54.00	-11.57	AVG
Remark: Factor	r = Antenna Factor	+ Cable Loss –	Pre-amplifier.		AKTESTING	"IAK TESTAN

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	58.47	-3.51	54.96	74.00	-19.04	peak
4874	43.62	-3.51	40.11	54.00	-13.89	AVG
7311	57.14	-0.82	56.32	74.00	-17.68	peak
7311	43.16	-0.82	42.34	54.00	-11.66	AVG

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

AFICATION



HIGH CH11 (802.11n/H20 Mode)/2462

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4924	58.72	-3.43	55.29	74	-18.71	peak
4924	45.32	-3.43	41.89	54	-12.11	AVG
7386	55.96	-0.75	55.21	74	-18.79	peak
7386	42.35	-0.75	41.6	54 KTEST	-12.4	AVG

Vertical:

Reading Result	eading Result Factor Emission Level	Limits	Margin	Data atas Time	
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
58.91	-3.43	55.48	74	-18.52	peak
45.32	-3.43	41.89	54 MUN	-12.11	AVG
55.01	-0.75	54.26	74	-19.74	peak
44.28	-0.75	43.53	54	-10.47	AVG
	(dBµV) 58.91 45.32 55.01	(dBµV) (dB) 58.91 -3.43 45.32 -3.43 55.01 -0.75	(dBμV) (dB) (dBμV/m) 58.91 -3.43 55.48 45.32 -3.43 41.89 55.01 -0.75 54.26	(dBμV) (dB) (dBμV/m) (dBμV/m) 58.91 -3.43 55.48 74 45.32 -3.43 41.89 54 55.01 -0.75 54.26 74	(dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 58.91 -3.43 55.48 74 -18.52 45.32 -3.43 41.89 54 -12.11 55.01 -0.75 54.26 74 -19.74

LOW CH3 (802.11n/H40 Mode)/2422

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Data star Turk
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4844	59.72	-3.63	56.09	74	-17.91	peak
4844	48.84	-3.63	45.21	54	-8.79	AVG
7266	57.14	-0.94	56.2	74	-17.8	peak
7266	41.69	-0.94	40.75	54	-13.25	AVG
Remark: Factor	= Antenna Factor +	- Cable Loss	– Pre-amplifier.	MG WALL	ESTING	TESTING

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Trime
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4844	59.31	-3.63	55.68	74	-18.32	peak
4844	45.37	-3.63	41.74	54	-12.26	AVG
7266	57.28	-0.94	56.34	74	-17.66	peak
7266	42.01	-0.94	41.07	54	-12.93	AVG
Remark: Factor	r = Antenna Factor	+ Cable Loss	– Pre-amplifier	Inc. D.	ESTING	TESTING



MID CH6 (802.11n/H40 Mode)/2437

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Tyme
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4874	59.32	-3.51	55.81	74	-18.19	peak
4874	45.35	-3.51	41.84	54	-12.16	AVG
7311	57.42	-0.82	56.6	74	-17.4	peak
7311	41.28	-0.82	40.46	5451	-13.54	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Turk
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4874	60.38	-3.51	56.87	74	-17.13	peak
4874	45.12	-3.51	41.61	54	-12.39	AVG
7311	56.31	-0.82	55.49	74	-18.51	peak
7311	45.78	-0.82	44.96	54 KTEST	-9.04	AVG
	NG AND YELL			IG AND THE		-NG

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



HIGH CH9 (802.11n/H40 Mode)/2452

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Data atom Tuma
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4904	58.85	-3.43	55.42	74	-18.58	peak
4904	43.34	-3.43	39.91	54	-14.09	AVG
7356	56.31	-0.75	55.56	74	-18.44	peak
7356	43.15	-0.75	42.4	54	-11.6	AVG

SI TEN

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Detector Type
4904	58.72	-3.43	55.29	74	-18.71	peak
4904	45.62	-3.43	42.19	54	-11.81	AVG
7356	57.57	-0.75	56.82	74	-17.18	peak
7356	44.61	-0.75	43.86	54	-10.14	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 Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.



Test Result of Radiated Spurious at Band edges

Report No.: HK2109083408-1E

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

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2310.00	60.34	-5.81	54.53	74	-19.47	peak
2310.00	45.85	-5.81	40.04	54	-13.96	AVG
2390.00	61.54	-5.84	55.7	74	-18.3	peak
2390.00	45.12	-5.84	39.28	54	-14.72	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Date This
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2310.00	61.35	-5.81	55.54	74	-18.46	peak
2310.00	47.58	-5.81	41.77	54	-12.23	AVG
2390.00	62.38	-5.84	56.54	74	-17.46	peak
2390.00	48.79	-5.84	42.95	54	-11.05	AVG
TNG _	TING -		uG_	NG	TOG	-mG

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

Operation Mode: TX CH High (2462MHz)

Horizontal

Olm	-all	llan	3	AID.	-all	Un.
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	61.35	-5.81	55.54	74	-18.46	peak
2483.50	47.85	-5.81	42.04	54	-11.96	AVG
2500.00	60.35	-6.06	54.29	74	-19.71	peak
2500.00	45.89	-6.06	39.83	54	-14.17	AVG
A 100 A		Home	1533		CON HOUSE	(46)

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

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	(1) HUNN
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	61.35	-5.81	55.54	74	-18.46	peak
2483.50	47.58	-5.81	41.77	54	-12.23	AVG
2500.00	61.34	-6.06	55.28	74	-18.72	peak
2500.00	49.59	-6.06	43.53	54	-10.47	AVG

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.



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

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2310.00	61.25	-5.81	55.44	74	-18.56	peak
2310.00	46.97	-5.81	41.16	54	-12.84	AVG
2390.00	61.61	-5.84	55.77	74	-18.23	peak
2390.00	46.38	-5.84	40.54	54	-13.46°	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	HUAKI
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2310.00	62.17	-5.81	56.36	74	-17.64	peak
2310.00	46.25	-5.81	40.44	54	-13.56	AVG
2390.00	61.37	-5.84	55.53	74	-18.47	peak
2390.00	47.28	-5.84	41.44	54	-12.56	AVG

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

Operation Mode: TX CH High (2462MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Data ata Tura
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	60.28	-5.65	54.63	74	-19.37	peak
2483.50	45.89	-5.65	40.24	54	-13.76	AVG
2500.00	61.24	-5.65	55.59	74	-18.41	peak
2500.00	45.38	-5.65	39.73	54	-14.27	AVG

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

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Data dan Tura
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	62.38	-5.65	56.73	74	-17.27	peak
2483.50	47.96	-5.65	42.31	54	-11.69	AVG
2500.00	61.34	-5.65	55.69	74	-18.31	peak
2500.00	46.28	-5.65	40.63	54	-13.37	AVG

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.



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

Horizontal

Reading Result	Factor	Emission Level	Limits	Margin	Data star Tuna
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
60.37	-5.81	54.56	74	-19.44	peak
47.18	-5.81	41.37	54	-12.63	AVG
61.32	-5.84	55.48	74	-18.52	peak
48.27	-5.84	42.43	54	-11.57	AVG
	(dBµV) 60.37 47.18 61.32	(dBµV) (dB) 60.37 -5.81 47.18 -5.81 61.32 -5.84	(dBμV) (dB) (dBμV/m) 60.37 -5.81 54.56 47.18 -5.81 41.37 61.32 -5.84 55.48	(dBμV) (dB) (dBμV/m) (dBμV/m) 60.37 -5.81 54.56 74 47.18 -5.81 41.37 54 61.32 -5.84 55.48 74	(dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 60.37 -5.81 54.56 74 -19.44 47.18 -5.81 41.37 54 -12.63 61.32 -5.84 55.48 74 -18.52

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2310.00	62.37	-5.81	56.56	74	-17.44	peak
2310.00	46.59	-5.81	40.78	54	-13.22	AVG
2390.00	60.24	-5.84	54.4	74	-19.6	peak
2390.00	46.82	-5.84	40.98	54	-13.02	AVG

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



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)	Detector Type
2483.50	61.47	-5.65	55.82	74	-18.18	peak
2483.50	47.58	-5.65	41.93	54	-12.07	AVG
2500.00	61.35	-5.65	55.7	74	-18.3	peak
2500.00	47.82	-5.65	42.17	54	-11.83	AVG

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

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	61.37	-5.65	55.72	74	-18.28	peak
2483.50	45.89	-5.65	40.24	54	-13.76	AVG
2500.00	61.25	-5.65	55.6	74	-18.4	peak
2500.00	46.22	-5.65	40.57	54	-13.43	AVG

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.

Operation Mode: 802.11n/H40 Mode TX CH Low (2422MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Data ata Tura
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2310.00	58.72	-5.81	52.91	74	-21.09	peak
2310.00	ESTING /	-5.81	N IESTING	54	1	AVG
2390.00	58.14	-5.84	52.3	74	-21.7	peak
2390.00	I HUA	-5.84	1	54	1	AVG
Pemark: Factor	= Antenna Factor	+ Cable Loss	Dre amplifier	-	TESTING	V TESTING

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Data 444 TESTING
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2310.00	57.98	-5.81	52.17	74	-21.83	peak
2310.00	,	-5.81	HUNKTE	54	1	AVG
2390.00	58.41	-5.84	52.57	74	-21.43	peak
2390.00	NK TESTING ME	-5.84	NG / NESTING	54	TESTING	AVG

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

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Operation Mode: TX CH High (2452MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	DA HUAK TEST
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	58.97	-5.65	53.32	74	-20.68	peak
2483.50	1	-5.65	O HUAN	54	1 🌑	AVG
2500.00	56.34	-5.65	50.69	74	-23.31	peak
2500.00	UDAKTESTIL /	-5.65	AUAK TESTA	54	LAK TETING	AVG

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

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	58.12	-5.65	52.47	74	-21.53	peak
2483.50	1	-5.65	I	54	1	AVG
2500.00	57.22	-5.65	51.57	74	-22.43	peak
2500.00	1	-5.65	01	54	DHO. I	AVG

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.

AFICATION.

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



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.

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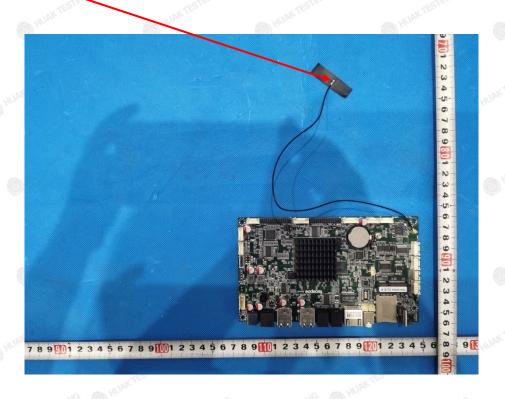
Refer to statement below for compliance.

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, not easy to remove. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 3dBi.

WIFI ANTENNA



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4.9. PHOTOGRAPH OF TEST





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4.10. PHOTOS OF THE EUT

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

-End of test report----