

FCC TEST REPORT

Test report
On Behalf of
Shenzhen Qizhilian Technology Co.,Ltd
For
Wireless HD Transmitter & Receiver
Model No.: G69, R1, R2

FCC ID: 2AZDX-G69

Prepared For: Shenzhen Qizhilian Technology Co.,Ltd

602, Building2, ZhongTaiTechnology park, Donghuan Road, Longhua street

Shenzhen, China

Prepared By: Shenzhen HUAK Testing Technology Co., Ltd.

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Date of Test: Dec. 08, 2022 ~ Dec. 16, 2022

Date of Report: Dec. 16, 2022

Report Number: HK2212085564-1E



TEST RESULT CERTIFICATION

Applicant's name	Shenzhen	Qizhilian	Technology	CoLtd

602, Building2, ZhongTaiTechnology park, Donghuan Road,

Longhua street Shenzhen, China

Manufacture's Name...... Shenzhen Qizhilian Technology Co.,Ltd

602, Building2, ZhongTaiTechnology park, Donghuan Road,

Longhua street Shenzhen, China

Product description

Trade Mark: Renkchip

Product name.....: Wireless HD Transmitter & Receiver

Model and/or type reference .: G69, R1, R2

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 Dec. 08, 2022 ~ Dec. 16, 2022

Date of Issue...... Dec. 16, 2022

Test Result..... Pass

Testing Engineer :

(Gary Qian)

Technical Manager

Eden th

(Eden Hu)

Authorized Signatory:

Jason Www

(Jason Zhou)



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** Modified History **

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Dec. 16, 2022	Jason Zhou
n/G	Om Om	a)G	3

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1. TEST RESULT SUMMARY

1.1. TEST PROCEDURES AND RESULTS

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247(b)(4)	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	§15.247(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 ± 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.	ltem	MU	
1	Conducted Emission	±2.71dB	
2	RF power, conducted	±0.37dB	
3 HUNK	Spurious emissions, conducted	±0.11dB	
4	All emissions, radiated(<1G)	±3.90dB	
5	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

Equipment:	Wireless HD Transmitter & Recei	iver Market Company
Model Name:	G69	N.TESTING
Series Model:	R1, R2	HUAKTESTI
Model Difference:	All model's the function, softwa are the same, only with a produ different. Test sample mode: G	uct model named
FCC ID:	2AZDX-G69	O HUAN
Antenna Type:	Internal Antenna	
Antenna Gain:	3.04dBi	HUAY TESTIN
Operation frequency:	802.11b/g/n 20:2412~2462 MHz 802.11n 40: 2422~2452MHz	N. TESTING
Number of Channels:	802.11b/g/n20: 11CH 802.11n 40: 7CH	WAY TEST
Modulation Type:	CCK/OFDM/DBPSK/DQPSK	
Power Source:	DC 5V from USB	HUAN TESTING HUAN TESTING
Power Rating:	DC 5V from USB	

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2.2. CARRIER FREQUENCY OF CHANNELS

	Channel List For 802.11b/802.11g/802.11n (HT20)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
01	2412	04	2427	07	2442	10	2457	
02	2417	05	2432	08	2447	11	2462	
03	2422	06	2437	09	2452	-STING		

Channel List For 802.11n (HT40)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
STING	KTESTAL	04	2427	07	2442	- TESTINI	NTE
@ H		05	2432	08	2447	HUAR	CO HOW
03	2422	06	2437	09	2452		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

2.3. OPERATION OF EUT DURING TESTING

Operating Mode

The mode is used: 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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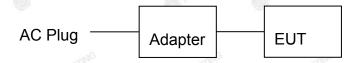


2.4. DESCRIPTION OF TEST SETUP

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



Operation of EUT during radiation above 1GHz testing:



Adapter information Model: HW-059200CHQ

Input: 100-240V, 50-60Hz, 0.5A

Output: 5VDC, 2A

Display information Model: 24PFF3661/T3

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 X position

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3. ENERA INFORMATION

3.1. TEST ENVIRONMENT AND MODE

Operating Environment:		
Temperature:	25.0 °C	HUAKTE
Humidity:	56 % RH	(iii)
Atmospheric Pressure:	1010 mbar	
Test Mode:		
Engineering mode:	Keep the EUT in continuous to by select channel and modula value of duty cycle is 98.46%	itions(The

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.

STING	Mode	TESTING	TESTING	Data rate	3 165
	802.11b	HUAR	HUAN	1Mbps	W HILDER
is .	802.11g	TING		6Mbps	
	802.11n(H20)	HK TES	ESTING	6.5Mbps	STING
W HU	802.11n(H40)	W III	AKTE	13.5Mbps	HUAKTE

Final Test Mode:

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

- 1. For WIFI function, the engineering test program was provided and enabled to make EUT continuous transmit/receive.
- 2.According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup" 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(H20), 13.5Mbps for 802.11(H40). Duty cycle setting during the transmission is 98.5% with maximum power setting for all modulations.



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
(NG /	IG I HURK TESTI	I STING	I HUAY TESTIN	1 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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TEST RESULTS AND MEASUREMENT DATA

CONDUCTED EMISSION

Test Specification

TING	TING TING TING					
Test Requirement:	FCC Part15 C Section 15.207					
Test Method:	ANSI C63.10:2013					
Frequency Range:	150 kHz to 30 MHz					
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=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 Plane					
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:	 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					





Test Instruments

Conducted Emission Shielding Room Test Site (843)						
Equipment Manufacturer Model Serial Number Calibration Date Due						
Receiver	R&S	ESCI 7	HKE-010	Feb. 18, 2022	Feb. 17, 2023	
LISN	R&S	ENV216	HKE-002	Feb. 18, 2022	Feb. 17, 2023	
Coax cable (9KHz-30MHz)	Times	381806-002	N/A	Feb. 18, 2022	Feb. 17, 2023	
Conducted test software	Tonscend	TS+ Rev 2.5.0.0	HKE-081	N/A	N/A	

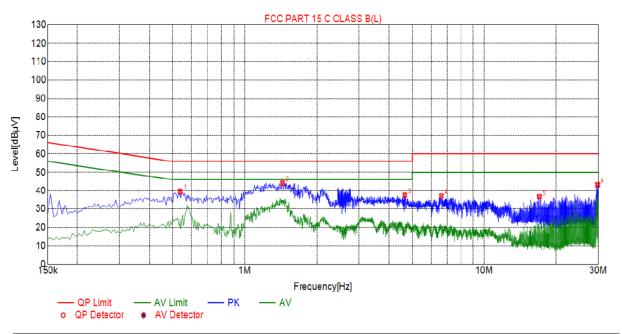
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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4.2. TEST RESULT

Test Specification: Line



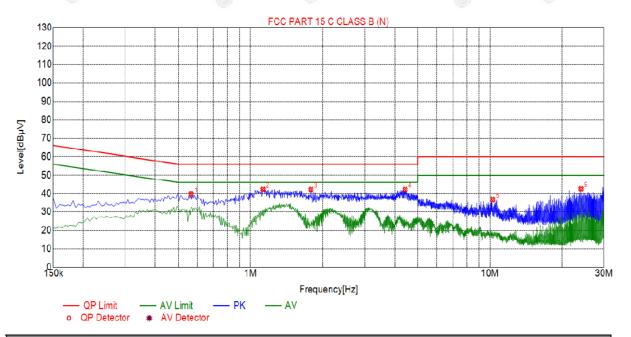
Sus	Suspected List									
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре		
1	0.5370	39.56	20.05	56.00	16.44	24.51	PK	L		
2	1.4370	44.12	20.10	56.00	11.88	29.02	PK	L		
3	4.6590	37.52	20.26	56.00	18.48	22.26	PK	L		
4	6.6300	37.04	20.21	60.00	22.96	21.83	PK	L		
5	17.0115	36.66	20.00	60.00	23.34	21.66	PK	L		
6	29.7690	43.26	20.26	60.00	16.74	28.00	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



Suspected List									
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре	
1	0.5640	39.76	20.06	56.00	16.24	19.70	PK	N	
2	1.1265	42.32	20.08	56.00	13.68	22.24	PK	N	
3	1.7880	42.26	20.14	56.00	13.74	22.12	PK	N	
4	4.4250	42.25	20.25	56.00	13.75	22.00	PK	N	
5	10.2750	36.66	20.05	60.00	23.34	16.61	PK	N	
6	24.0000	42.59	20.22	60.00	17.41	22.37	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 15.2	FCC Part15 C Section 15.247 (b)(3)				
Test Method:	KDB 558074	Who was	MUNICOLO HUMAN			
Limit:	30dBm	LAN TESTING	-NG			
Test Setup:	Power meter	EUT	HUAKTES IN			
Test Mode:	Transmitting mode with mode	dulation				
Test Procedure:	1. The testing follows the M FCC KDB 558074 D01 v05r02. 2. The RF output of EUT was meter by RF cable and a compensated to the results. Set to the maximum pow EUT transmit continuous 4. Measure the Peak output in the test report.	15.247 Meas Gui as connected to the attenuator. The pults for each mea er setting and ensity.	idance the power ath loss was asurement. hable the			
Test Result:	PASS	(a) Hillian	0 "			

Test Instruments

HUAN	HUA	HUM	HUA"	HUP	HUAN		
RF Test Room							
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due		
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 18, 2022	Feb. 17, 2023		
Power meter	Agilent	E4419B	HKE-085	Feb. 18, 2022	Feb. 17, 2023		
Power Sensor	Agilent	E9300A	HKE-086	Feb. 18, 2022	Feb. 17, 2023		
RF cable	Times	1-40G	HKE-034	Feb. 18, 2022	Feb. 17, 2023		
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 18, 2022	Feb. 17, 2023		

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

- Allies	TING	71010	TING TING
KTED.	HUAKTES.	TX 802.11b Mode	HUAKTES!
Test	est Frequency Maximum Peak Conducted Output Po		LIMIT
Channel	(MHz)	(dBm)	dBm
CH01	2412	17.75	30
CH06	2437	18.33	30
CH11	2462	17.38	30
		TX 802.11g Mode	
CH01	2412	18.94	30
CH06	2437	18.05	30 HILIANTES
CH11	2462	17.45	30
	TESTING	TX 802.11n20 Mode	TES INC
CH01	2412	18.53	30
CH06	2437	17.77 ₁₀₀ _{MIARCTES 100}	30
CH11	2462	17.35	30
1		TX 802.11n40 Mode	
CH03	2422	17.33	30
CH06	2437	17.41	30 NAVETES
CH09	2452	15.84	30

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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 HOW	(1) HUNN			
Limit:	>500kHz	ON TESTING	Dio			
Test Setup:	Spectrum Analyzer	EUT	WAY TESTING			
Test Mode:	Transmitting mode with i	modulation				
Test Procedure:	1. The testing follows FC 15.247 Meas Guidan 2. Set to the maximum p EUT transmit continu 3. Make the measureme resolution bandwidth Video bandwidth (VB an accurate measure be greater than 500 ke 4. Measure and record to	ce v05r02. bower setting and element with the spectru (RBW) = 100 kHz bW) = 300 kHz. In dement. The 6dB backHz.	enable the im analyzer's . Set the order to make ndwidth must			
Test Result:	PASS	O HIM	0 110			

Test Instruments

RF Test Room							
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due		
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 18, 2022	Feb. 17, 2023		
RF cable	Times	1-40G	HKE-034	Feb. 18, 2022	Feb. 17, 2023		
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 18, 2022	Feb. 17, 2023		

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

Teel also coel		6dB Emission Bandwidth (MHz)				
Test channel	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	9.120	12.520	15.120	27.600		
Middle	8.560	14.400	13.800	32.480		
Highest	9.040	13.520	15.080	28.800		
Limit:	>500k					
Test Result:	NA.	TESTING WAY TESTIN	PASS	TIME WANTESTING		

Test plots as follows:

802.11b Modulation

Lowest channel



Middle channel



Highest channel





802.11g Modulation

Lowest channel



Middle channel



Highest channel





802.11n (HT20) Modulation

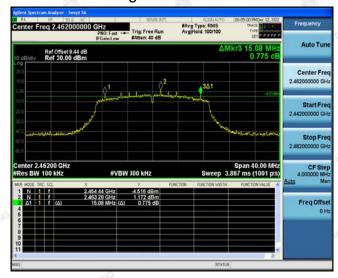
Lowest channel



Middle channel



Highest channel



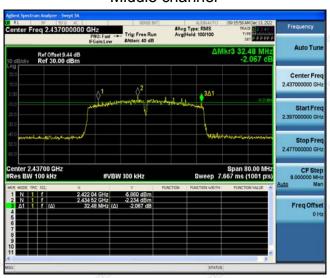


802.11n (HT40) Modulation

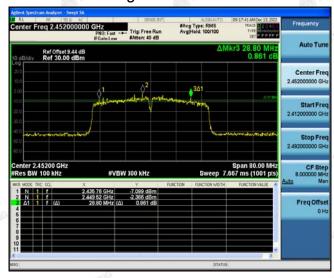
Lowest channel



Middle channel



Highest channel





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 EUI				
Test Mode:	Transmitting mode with modulation				
Test Procedure:	 The testing follows Measurement procedure 10.2 method PKPSD of FCC KDB Publication 558074 DO 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 spar 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 (Market Market Mar				

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Test Instruments

RF Test Room						
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due	
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 18, 2022	Feb. 17, 2023	
RF Cable (9KHz-26.5GHz)	Tonscend	170660	N/A	Feb. 18, 2022	Feb. 17, 2023	
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 18, 2022	Feb. 17, 2023	
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)			
802.11b	Lowest	2.43	-7.57 ₍₇₇₅ m)			
	Middle	1.69	-8.31			
	Highest	0.59	-9.41			
802.11g	Lowest	-2.72	-12.72			
	Middle	-3.58	-13.58			
	Highest	-3.56	-13.56			
802.11n(H20)	Lowest	-2.41	-12.41			
	Middle	-4.25	-14.25			
	Highest	-4.48	-14.48			
802.11n(H40)	Lowest	-6.53	-16.53			
	Middle	-6.47	-16.47			
	Highest	-7.37	-17.37			
PSD test result (dBm/	3kHz)= PSD tes	t result (dBm/30kHz)-10	4.1			
Limit: 8dBm/3kHz						
Test Result:	PASS					

Test plots as follows:



802.11b Modulation

Lowest channel



Middle channel



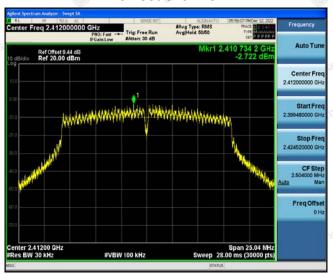
Highest channel



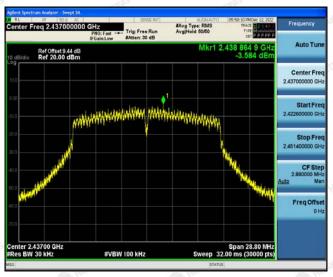


802.11g Modulation

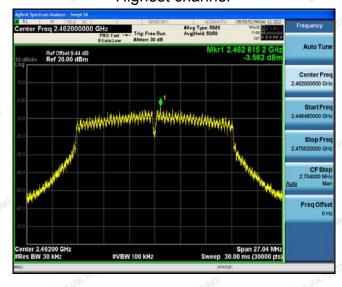
Lowest channel



Middle channel

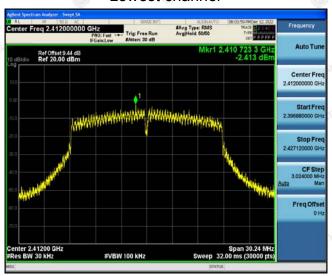


Highest channel



802.11n (HT20) Modulation

Lowest channel



Middle channel



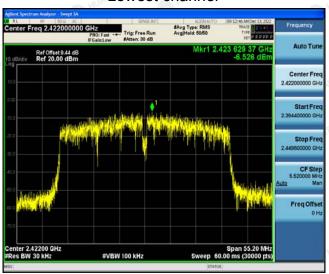
Highest channel



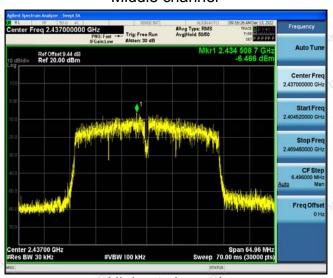
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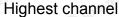
802.11n (HT40) Modulation

Lowest channel



Middle 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:	 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. 			
Test Result:	PASS			

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Test Instruments

RF Test Room							
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due		
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 18, 2022	Feb. 17, 2023		
High pass filter unit	Tonscend	JS0806-F	HKE-055	Feb. 18, 2022	Feb. 17, 2023		
RF Cable (9KHz-26.5GHz)	Tonscend	170660	N/A	Feb. 18, 2022	Feb. 17, 2023		
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 18, 2022	Feb. 17, 2023		
RF test software	Tonscend	JS1120-B Version 2.6	HKE-083	N/A	N/A		

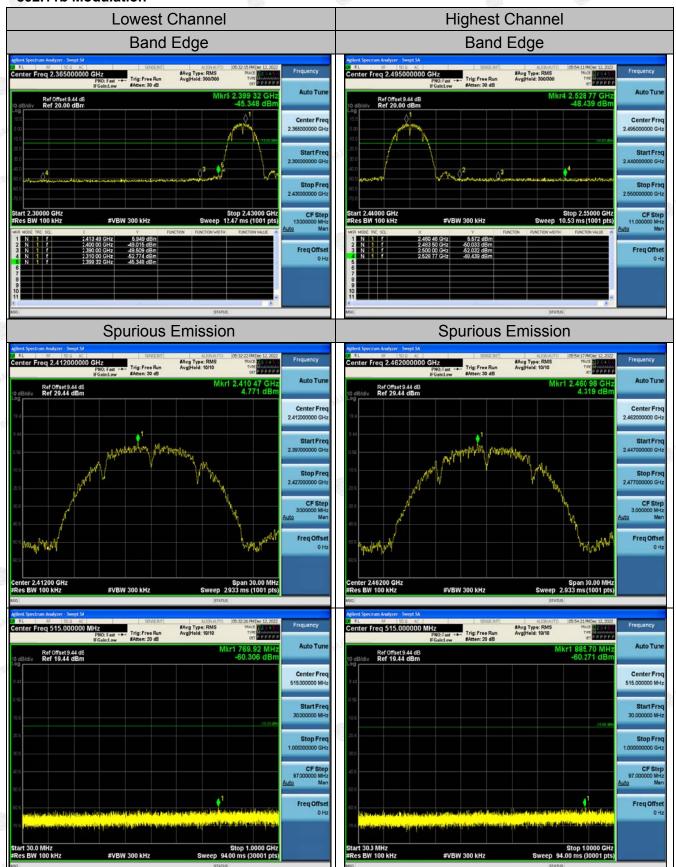
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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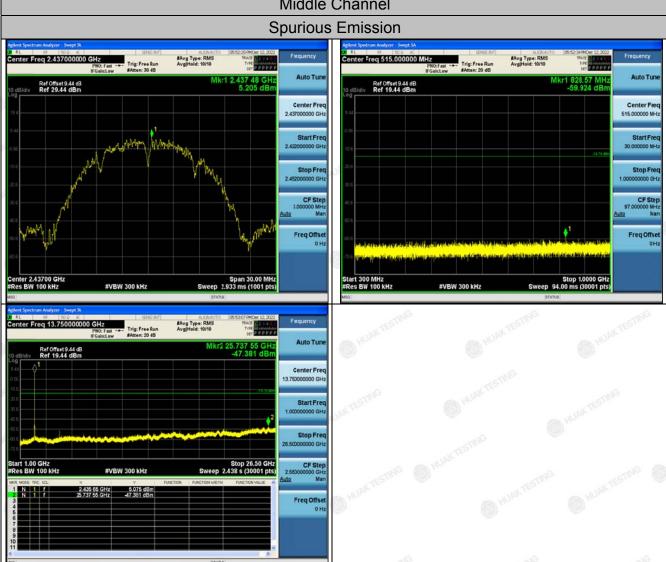


Test Data

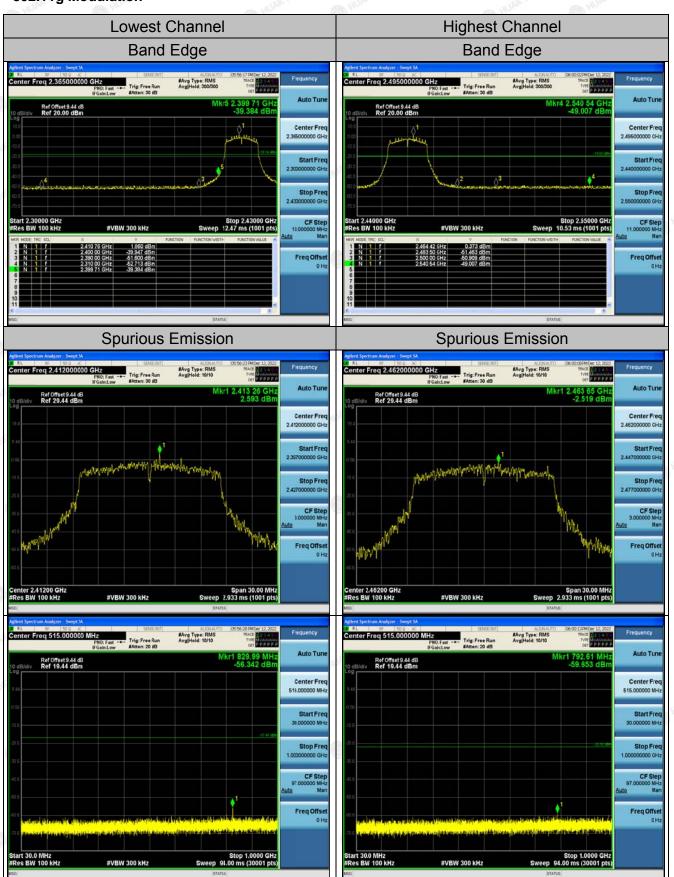
802.11b Modulation





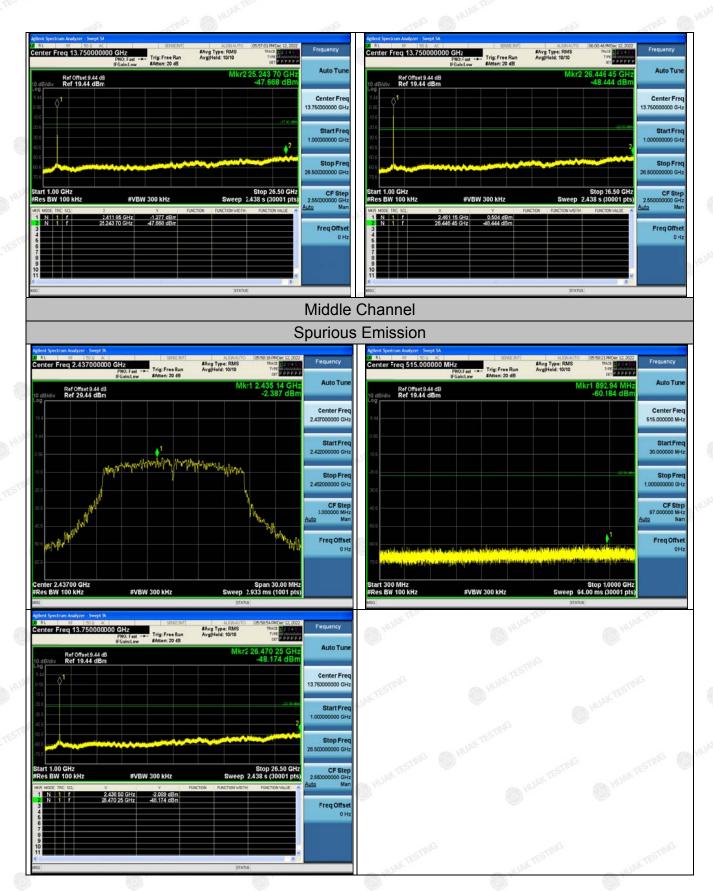


802.11g Modulation



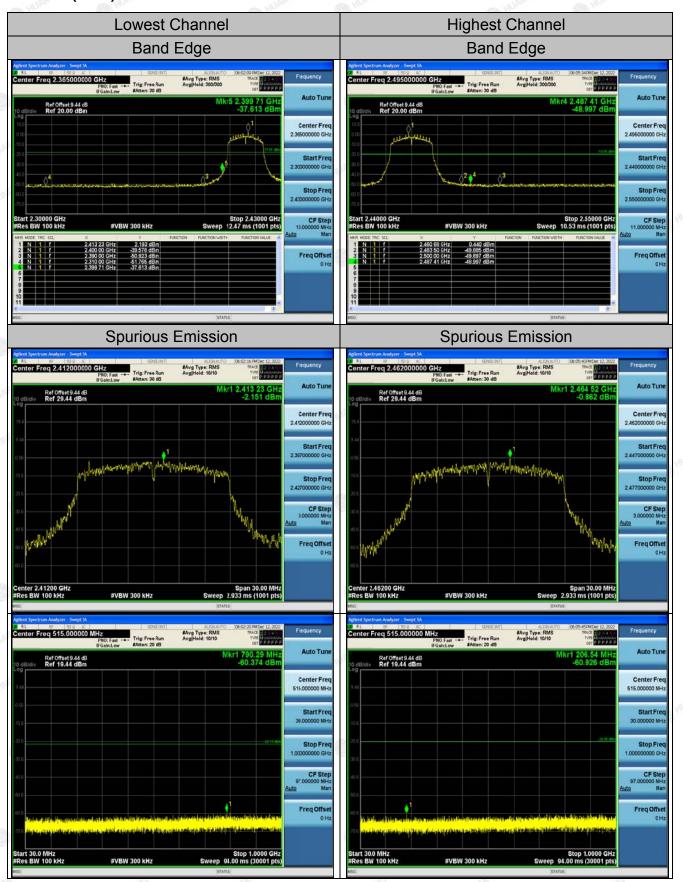
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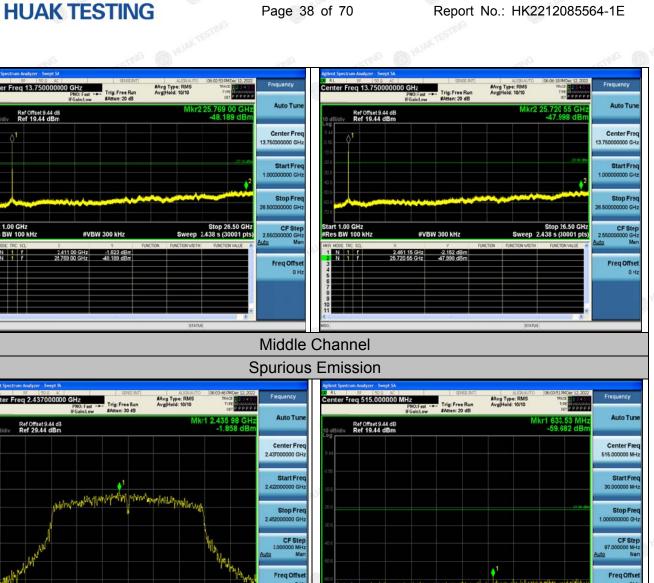


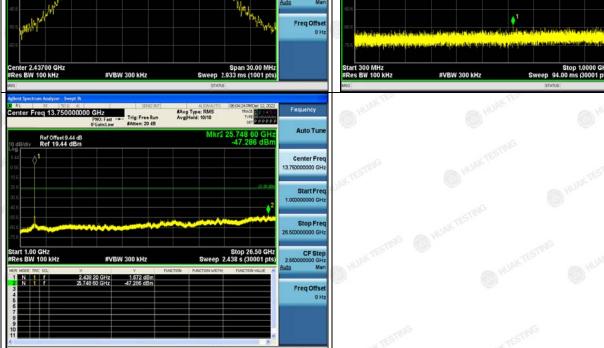
802.11n (HT20) Modulation



Ref Offset 9.44 dB Ref 19.44 dBm

Ref Offset 9.44 dB Ref 29.44 dBm

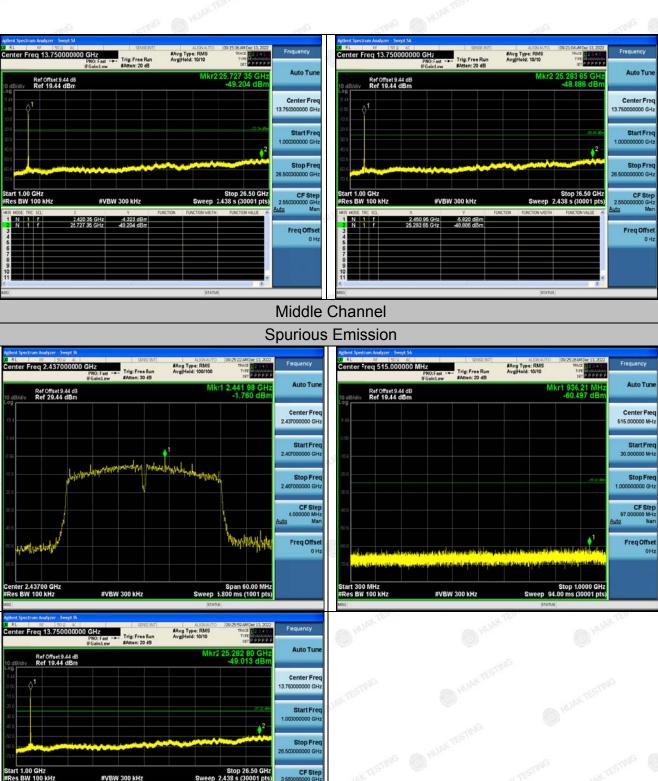






802.11n (HT40) Modulation







MANTES

Report No.: HK2212085564-1E

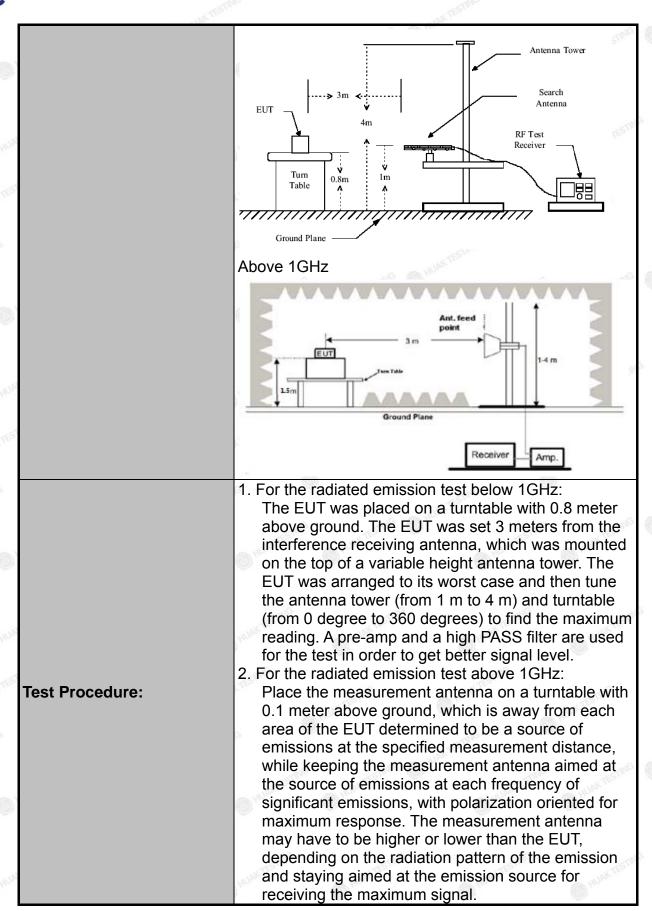
4.7. RADIATED SPURIOUS EMISSION MEASUREMENT

Test Specification

Test Requirement:	FCC Part15 C Section 15.209							
Test Method:	ANSI C63.10): 2013			HUAR		(1) HUAR	
Frequency Range:	9 kHz to 25 (GHz			CTING			
Measurement Distance:	3 m	TESTING		AL HU	AKTE		TESTING	
Antenna Polarization:	Horizontal &	Vertical			^	0	HUAR	
Operation mode:	Transmitting	mode w	/ith	modulati	ion			
	Frequency 9kHz- 150kHz	Detecto Quasi-pe		RBW 200Hz	VBW 1kHz		Remark si-peak Value	
Receiver Setup:	150kHz- 30MHz	Quasi-pe	ak	9kHz	30kHz	Quas	si-peak Value	
	30MHz-1GHz	Quasi-pe	ak	120KHz	300KHz		si-peak Value	
	Above 1GHz	Peak	STIL	1MHz	3MHz	+	eak Value	
	70	Peak		1MHz	10Hz	AVE	erage Value	
	Frequency			Field Strength (microvolts/meter)		Measurement Distance (meters)		
	0.009-0.490			2400/F(KHz)			300	
	0.490-1.705			24000/F(KHz)		DECTE:	30	
	1.705-30 30-88			30 100			30	
	88-216			150	<u> </u>		3	
Limit:	216-960			200			3	
	Above 960			500			3	
	(i)			•				
	Frequency		Field Strength icrovolts/meter)		Measureme Distance (meters)		Detector	
	WAK TE	THE WAY TO	5	500			Average	
	Above 1GHz		5	000	3		Peak	
	For radiated	emissio	ns	below 30	MHz		-=TING	
Test setup:	0.8 m		n Table	i m	RX Anto	enna ↑ 1 m	PAG	
	30MHz to 10	6Hz			Receive	er]_	HUAN STI	

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	The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. 3. 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. 6. For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Test results:	PASS



Test Instruments

	Rad	iated Emission	Test Site (966	5)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Receiver	R&S	ESCI-7	HKE-010	Feb. 18, 2022	Feb. 17, 2023
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 18, 2022	Feb. 17, 2023
Spectrum analyzer	R&S	FSP40	HKE-025	Feb. 18, 2022	Feb. 17, 2023
High gain antenna	Schwarzbeck	LB-180400KF	HKE-054	Feb. 18, 2022	Feb. 17, 2023
Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Feb. 18, 2022	Feb. 17, 2023
Preamplifier	EMCI	EMC051845S E	HKE-015	Feb. 18, 2022	Feb. 17, 2023
Preamplifier	Agilent	83051A	HKE-016	Feb. 18, 2022	Feb. 17, 2023
Loop antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Feb. 18, 2022	Feb. 17, 2023
Broadband antenna	Schwarzbeck	VULB 9163	HKE-012	Feb. 18, 2022	Feb. 17, 2023
Horn antenna	Schwarzbeck	9120D	HKE-013	Feb. 18, 2022	Feb. 17, 2023
High pass filter unit	Tonscend	JS0806-F	HKE-055	Feb. 18, 2022	Feb. 17, 2023
Antenna Mast	Keleto	CC-A-4M	N/A	N/A	N/A
Position controller	Taiwan MF	MF7802	HKE-011	Feb. 18, 2022	Feb. 17, 2023
Radiated test software	Tonscend	TS+ Rev 2.5.0.0	HKE-082	N/A	N/A
RF cable	Times	9kHz-1GHz	HKE-117	Feb. 18, 2022	Feb. 17, 2023
RF cable	Times	1-40G	HKE-034	Feb. 18, 2022	Feb. 17, 2023
Horn Antenna	Schewarzbeck	BBHA 9170	HKE-017	Feb. 18, 2022	Feb. 17, 2023

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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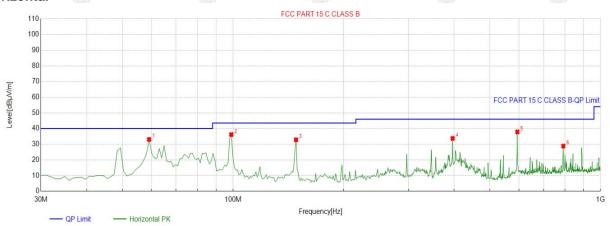


Test Data

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

Below 1GHz

Horizontal



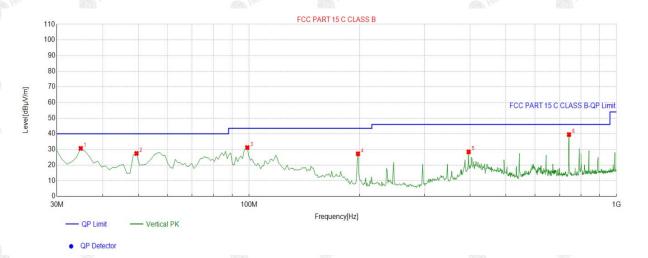
QP Detector

Suspe	Suspected List										
NO.	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Delevity		
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity		
1	59.1291	-14.56	47.61	33.05	40.00	6.95	100	341	Horizontal		
2	98.9389	-15.53	51.68	36.15	43.50	7.35	100	264	Horizontal		
3	148.4585	-18.68	51.52	32.84	43.50	10.66	100	336	Horizontal		
4	396.0561	-9.72	43.43	33.71	46.00	12.29	100	317	Horizontal		
5	594.1341	-5.30	43.18	37.88	46.00	8.12	100	344	Horizontal		
6	792.2122	-2.09	30.91	28.82	46.00	17.18	100	1	Horizontal		

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



Vertical



Suspe	Suspected List										
NO.	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Delevity		
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity		
1	34.8549	-16.04	46.70	30.66	40.00	9.34	100	346	Vertical		
2	49.4194	-14.62	42.04	27.42	40.00	12.58	100	16	Vertical		
3	98.9389	-15.53	46.71	31.18	43.50	12.32	100	26	Vertical		
4	197.9780	-15.96	43.17	27.21	43.50	16.29	100	117	Vertical		
5	396.0561	-9.72	38.16	28.44	46.00	17.56	100	280	Vertical		
6	742.6927	-2.95	42.44	39.49	46.00	6.51	100	32	Vertical		

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

Harmonics and Spurious Emissions

Frequency Range (9kHz-30MHz)

Frequen	cy (MHz)	Level	@3m (dBµV/m)	Limit@	3m (dBµV/m)
NG -	•	TING		TING	
- T	NG W	JAK TES	TING	- WAKTED	TING
WAK TEN			WORK TEN	(iii)	HUAKTED
.	•	J.G	®		

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

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



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	51.74	-3.64	48.1	74	-25.9	peak
4824	41.67	-3.64	38.03	54	-15.97	AVG
7236	50.09	-0.95	49.14	74	-24.86	peak
7236	42.53	-0.95	41.58	54	-12.42	AVG

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

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	56.8	-3.64	53.16	74	-20.84	peak
4824	34.98	-3.64	31.34	54	-22.66	AVG
7236	53.53	-0.95	52.58	74	-21.42	peak
7236	31.57	-0.95	30.62	54	-23.38	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level -

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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	56.23	-3.51	52.72	74	-21.28	peak
4874	38.99	-3.51	35.48	54	-18.52	AVG
7311	54.8	-0.82	53.98	74	-20.02	peak
7311	35.95	-0.82	35.13	54	-18.87	AVG

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

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
4874	53.6	-3.51	50.09	74	-23.91	peak
4874	42.76	-3.51	39.25	54	-14.75	AVG
7311	50.4	-0.82	49.58	74	-24.42	peak
7311	39.31	-0.82	38.49	54	-15.51	AVG

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

AFICATION.

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	53.92	-3.43	50.49	74	-23.51	peak
4924	44.03	-3.43	40.6	54	-13.4	AVG
7386	50.28	-0.75	49.53	74	-24.47	peak
7386	41.45	-0.75	40.7	54	-13.3	AVG

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

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4924	51.34	-3.43	47.91	74	-26.09	peak
 4924	45.89	-3.43	42.46	54	-11.54	AVG
7386	49.15	-0.75	48.4	74	-25.6	peak
7386	43.78	-0.75	43.03	54	-10.97	AVG

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

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency; "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) 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	56.11	-3.64	52.47	74	-21.53	peak
4824	44.41	-3.64	40.77	54	-13.23	AVG
7236	53.82	-0.95	52.87	74	-21.13	peak
7236	42.40	-0.95	41.45	54 755	-12.55	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	51.68	-3.64	48.04	74	-25.96	peak
4824	32.72	-3.64	29.08	54	-24.92	AVG
7236	50.35	-0.95	49.4	74	-24.6	peak
7236	30.33	-0.95	29.38	54	-24.62	AVG

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

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MID CH6 (802.11g Mode)/2437

Horizontal:

Frequency	Reading Result	ult Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
4874	54.58	-3.51	51.07	74	-22.93	peak
4874	45.14	-3.51	41.63	54	-12.37	AVG
7311	53.55	-0.82	52.73	74	-21.27	peak
7311	41.03	-0.82	40.21	54sm	-13.79	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
4874	56.68	-3.51	53.17	74	-20.83	peak
4874	43.05	-3.51	39.54	54	-14.46	AVG
7311	52.89	-0.82	52.07	74	-21.93	peak
7311	40.64	-0.82	39.82	54	-14.18	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level -

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HIGH CH11 (802.11g Mode)/2462

Horizontal:

		11/2/201				
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
4924	57.74	-3.43	54.31	74	-19.69	peak
4924	46.02	-3.43	42.59	54	-11.41	AVG
7386	57.27	-0.75	56.52	74 MUA	-17.48	peak
7386	41.73	-0.75	40.98	54	-13.02	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level -

Vertical:

	Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
P	4924	56.43	-3.43	53	74	-21	peak
	4924	44.49	-3.43	41.06	54	-12.94	AVG
50	7386	52.87	-0.75	52.12	74 HUA	-21.88	peak
	7386	38.72	-0.75	37.97	54	-16.03	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency; "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) 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 (802.11n/H20 Mode)/2412

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	52.18	-3.64	48.54	74	-25.46	peak
4824	45.70	-3.64	42.06	54	-11.94	AVG
7236	50.74	-0.95	49.79	74	-24.21	peak
7236	43.55	-0.95	42.6	54	-11.4	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level -

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	53.13	-3.64	49.49	74	-24.51	peak
4824	45.02	-3.64	41.38	54	-12.62	AVG
7236	51.36	-0.95	50.41	74	-23.59	peak
7236	40.35	-0.95	39.4	54	-14.6	AVG

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

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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	52.37	-3.51	48.86	74.00	-25.14	peak
4874	40.54	-3.51	37.03	54.00	-16.97	AVG
7311	51.46	-0.82	50.64	74.00	-23.36	peak
7311	39.25	-0.82	38.43	54.00	-15.57	AVG

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

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
4874	53.50	-3.51	49.99	74.00	-24.01	peak
4874	45.61	-3.51	42.10	54.00	-11.90	AVG
7311	52.21	-0.82	51.39	74.00	-22.61	peak
7311	42.18	-0.82	41.36	54.00	-12.64	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level -



HIGH CH11 (802.11n/H20 Mode)/2462

Horizontal:

Reading Result	Factor	Emission Level	Limits	Margin	Detector Tyme
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
53.24	-3.43	49.81	74	-24.19	peak
42.66	-3.43	39.23	54	-14.77	AVG
51.36	-0.75	50.61	74	-23.39	peak
40.66	-0.75	39.91	54	-14.09	AVG
	(dBµV) 53.24 42.66 51.36	(dBµV) (dB) 53.24 -3.43 42.66 -3.43 51.36 -0.75	(dBμV) (dB) (dBμV/m) 53.24 -3.43 49.81 42.66 -3.43 39.23 51.36 -0.75 50.61	(dBμV) (dB) (dBμV/m) (dBμV/m) 53.24 -3.43 49.81 74 42.66 -3.43 39.23 54 51.36 -0.75 50.61 74	(dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 53.24 -3.43 49.81 74 -24.19 42.66 -3.43 39.23 54 -14.77 51.36 -0.75 50.61 74 -23.39

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

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		
4924	52.38	-3.43	48.95	74	-25.05	peak	
4924	41.61	-3.43	38.18	54	-15.82	AVG	
7386	50.31	-0.75	49.56	74	-24.44	peak	
7386	39.79	-0.75	39.04	54	-14.96	AVG	

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

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LOW CH3 (802.11n/H40 Mode)/2422

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4844	54.58	-3.63	50.95	74	-23.05	peak
4844	44.25	-3.63	40.62	54	-13.38	AVG
7266	51.64	-0.94	50.7	74	-23.3	peak
7266	41.79	-0.94	40.85	54	-13.15	AVG

Vertical:

Reading Result	Factor	Emission Level	Limits	Margin	Data atau Tura
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
53.94	-3.63	50.31	74	-23.69	peak
40.89	-3.63	37.26	54	-16.74	AVG
52.73	-0.94	51.79	74	-22.21	peak
37.35	-0.94	36.41	54	-17.59	AVG
	(dBµV) 53.94 40.89 52.73	(dBµV) (dB) 53.94 -3.63 40.89 -3.63 52.73 -0.94	(dBμV) (dB) (dBμV/m) 53.94 -3.63 50.31 40.89 -3.63 37.26 52.73 -0.94 51.79	(dBμV) (dB) (dBμV/m) (dBμV/m) 53.94 -3.63 50.31 74 40.89 -3.63 37.26 54 52.73 -0.94 51.79 74	(dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 53.94 -3.63 50.31 74 -23.69 40.89 -3.63 37.26 54 -16.74 52.73 -0.94 51.79 74 -22.21

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

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MID CH6 (802.11n/H40 Mode)/2437

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4874	57.98	-3.51	54.47	74	-19.53	peak
4874	44.45	-3.51	40.94	54	-13.06	AVG
7311	54.14	-0.82	53.32	74	-20.68	peak
7311	40.96	-0.82	40.14	54	-13.86	AVG

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

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4874	53.28	-3.51	49.77	74	-24.23	peak
4874	45.63	-3.51	42.12	54	-11.88	AVG
7311	51.85	-0.82	51.03	74	-22.97	peak
7311	42.59	-0.82	41.77	54	-12.23	AVG

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

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HIGH CH9 (802.11n/H40 Mode)/2452

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	- Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4904	52.42	-3.43	48.99	74	-25.01	peak
4904	40.93	-3.43	37.5	54	-16.5	AVG
7356	52.03	-0.75	51.28	74	-22.72	peak
7356	38.44	-0.75	37.69	54	-16.31	AVG

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

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4904	54.22	-3.43	50.79	74	-23.21	peak
4904	43.48	-3.43	40.05	54	-13.95	AVG
7356	51.82	-0.75	51.07	74	-22.93	peak
7356	40.03	-0.75	39.28	54	-14.72	AVG

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

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency; "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) 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

Operation Mode:

802.11b Mode TX CH Low (2412MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits (V)	Margin	TESTING
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2310.00	52.3	-5.81	46.49	74	-27.51	peak
2310.00	43.34	-5.81	37.53	54	-16.47	AVG
2390.00	49.42	-5.84	43.58	74	-30.42	peak
2390.00	41.62	-5.84	35.78	54	-18.22	AVG

Vertical:

F	requency	Reading Result	Factor	Emission Level	Limits	Margin	Dalis mus
	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
:	2310.00	55.91	-5.81	50.1	74	-23.9	peak
. X	2310.00	45.14	-5.81	39.33	54	-14.67	AVG
Ho.	2390.00	52.51	-5.84	46.67	74	-27.33	peak
	2390.00	42.41	-5.84	36.57	54	-17.43	AVG
	-0						

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

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Operation Mode: TX CH High (2462MHz)

Horizontal

- Ollo-	Slan			ello.	-allo	Ellan
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	53.54	-5.81	47.73	74	-26.27	peak
2483.50	39.75	-5.81	33.94	54	-20.06	AVG
2500.00	50.78	-6.06	44.72	74 TESTIM	-29.28	peak
2500.00	38.24	-6.06	32.18	54	-21.82	AVG
11.57	. 16.57		- N. S.		1 (4	. 15.5%

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

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	53.43	-5.81	47.62	74 HUM	-26.38	peak
2483.50	42.14	-5.81	36.33	54	-17.67	AVG
2500.00	51.76	-6.06	45.7	74	-28.3	peak
2500.00	39.18	-6.06	33.12	54	-20.88	AVG

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

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	Data atan Tuna
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2310.00	51.76	-5.81	45.95	74	-28.05	peak
2310.00	41.13	-5.81	35.32	54	-18.68	AVG
2390.00	50.38	-5.84	44.54	74	-29.46	peak
2390.00	35.86	-5.84	30.02	54	-23.98	AVG

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

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	MAKTESTIN
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Detector Type
2310.00	51.96	-5.81	46.15	74	-27.85	peak
2310.00	42.16	-5.81	36.35	54	-17.65	AVG
2390.00	50.42	-5.84	44.58	74	-29.42	peak
2390.00	39.67	-5.84	33.83	54	-20.17	AVG
315			C. C. C.		755	100

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

Operation Mode: TX CH High (2462MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Data star Time
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	54.28	-5.65	48.63	74	-25.37	peak
2483.50	41.79	-5.65	36.14	54	-17.86	AVG
2500.00	50.42	-5.65	44.77	74	-29.23	peak
2500.00	40.03	-5.65	34.38	54	-19.62	AVG
-010	-(II.) (III)		ale ale	(E) (E) (E)	Olas	-7170

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

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Detector Type
2483.50	51.82	-5.65	46.17	74	-27.83	peak
2483.50	40.4	-5.65	34.75	54	-19.25	AVG
2500.00	49.94	-5.65	44.29	74	-29.71	peak
2500.00	38.33	-5.65	32.68	54	-21.32	AVG

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

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

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	D. L. L. Tring
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2310.00	54.18	-5.81	48.37	74	-25.63	peak
2310.00	45.09	-5.81	39.28	54	-14.72	AVG
2390.00	50.22	-5.84	44.38	74	-29.62	peak
2390.00	42.05	-5.84	36.21	54	-17.79	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Data star Time
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2310.00	52.57	-5.81	46.76	74	-27.24	peak
2310.00	43.69	-5.81	37.88	54	-16.12	AVG
2390.00	50.14	-5.84	44.3	74	-29.7	peak
2390.00	41.75	-5.84	35.91	54	-18.09	AVG

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

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Operation Mode: TX CH High (2462MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	MAKTESTAR
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	52.87	-5.65	47.22	74	-26.78	peak
2483.50	43.67	-5.65	38.02	54	-15.98	AVG
2500.00	52.52	-5.65	46.87	74	-27.13	peak
2500.00	39.51	-5.65	33.86	54	-20.14	AVG

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

Vertical:

12	Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
1	2483.50	53.13	-5.65	47.48	74 m	-26.52	peak
3	2483.50	43.79	-5.65	38.14	54	-15.86	AVG
	2500.00	51.45	-5.65	45.8	74	-28.2	peak
	2500.00	43.43	-5.65	37.78	54	-16.22	AVG

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

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	D. L. L. TING
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2310.00	56.66	-5.81	50.85	74	-23.15	peak
2310.00	STING /	-5.81	TESTING	54 HUAY	1	AVG
2390.00	64.35	-5.84	58.51	74	-15.49	peak
2390.00	45.96	-5.84	40.12	54	-13.88	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Time
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2310.00	54.47	-5.81	48.66	74	-25.34	peak
2310.00	STING /	-5.81	JAK ESTING	54	1	AVG
2390.00	60.36	-5.84	54.52	74	-19.48	peak
2390.00	51.32	-5.84	45.48	54	-8.52	AVG

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

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Operation Mode: TX CH High (2452MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	MAKTESTAL
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	56.23	-5.65	50.58	74	-23.42	peak
2483.50	1	-5.65	MAN AND AND AND AND AND AND AND AND AND A	54	1 0 Y	AVG
2500.00	54.78	-5.65	49.13	74	-24.87	peak
2500.00	AKTESTING (II)	-5.65	ONG LOW TESTING	54	TETING	AVG

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

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	56.15	-5.65	50.5	74	-23.5	peak
2483.50	1	-5.65	1	54	1	AVG
2500.00	54.98	-5.65	49.33	74	-24.67	peak
2500.00	War.	-5.65	₩ YJAK	54	HUAKTE	AVG

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

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

Remark:

- 1. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.
- 2. In restricted bands of operation, the spurious emissions below the permissible value more than 20dB.
- 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



4.8. ANTENNA REQUIREMENT

Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247, if transmitting antennas of directional gain greater than6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

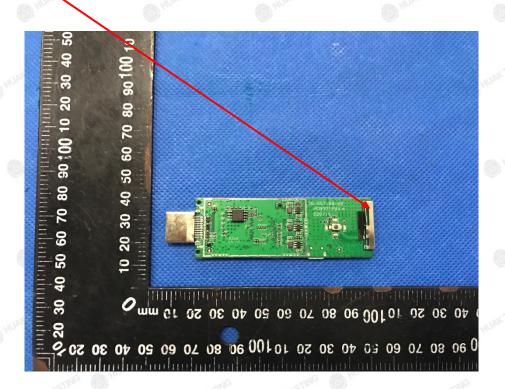
Refer to statement below for compliance.

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

Antenna Connected Construction

The antenna used in this product is a Internal antenna, need professional installation, not easy to remove. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 3.04dBi.

WIFI ANTENNA

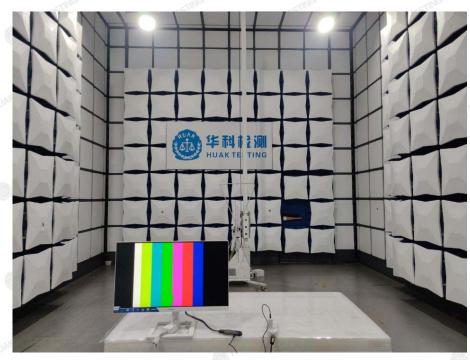


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5. PHOTOGRAPH OF TEST

Radiated Emissions





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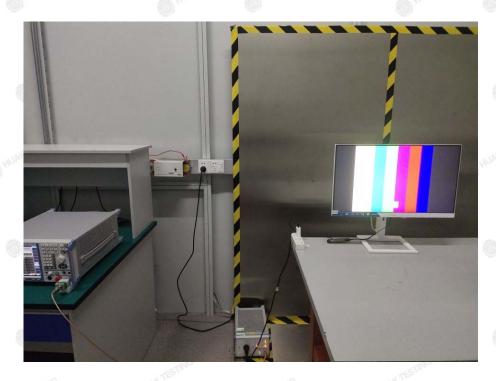
TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com

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





Conducted Emission



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6. PHOTOS OF THE EUT

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

-----End of test report-----

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